In the matter of an arbitration under the Rules of Arbitration of the International Centre for Settlement of Investment Disputes

Case No. ARB/21/51

The International Dispute Resolution Centre (IDRC) 1 Paternoster Lane LONDON, EC4M 7BQ

Day 5 Hearing on the Merits Tuesday, 6th February 2024

Before:

PROFESSOR GABRIELLE KAUFMANN-KOHLER MR STEPHEN L DRYMER PROFESSOR PHILIPPE SANDS

DISCOVERY GLOBAL LLC

Claimant

-v-

SLOVAK REPUBLIC

Respondent

Secretary to the Tribunal: JARA MÍNGUEZ ALMEIDA Assistant to the Tribunal: MAGNUS JESKO LANGER

> Transcript produced by Anne-Marie Stallard and Emma Lovell

## APPEARANCES

FOR CLAIMANT

MARK TUSHINGHAM, Twenty Essex NEIL NEWING, Signature Litigation COLIN GRECH, Signature Litigation PIETRO GRASSI, Signature Litigation BEN PHAROAH, Signature Litigation ALEXANDER FRASER, Party Representative MICHAEL LEWIS, Party Representative

FOR RESPONDENT

STEPHEN ANWAY, Squire Patton Boggs ROSTISLAV PEKAR, Squire Patton Boggs TATIANA PROKOPOVÁ, Squire Patton Boggs DAVID ALEXANDER, Squire Patton Boggs JAKUB KAMENICKÝ, Squire Patton Boggs DOUGLAS PILAWA, Squire Patton Boggs CHRISTINA LUO, Squire Patton Boggs JULIÁN KUPKA, Ministry of Finance of the Slovak Republic ZUZANA JEŠKOVÁ, Ministry of Finance of the Slovak Republic PETRA LEŠOVÁ, Ministry of Finance of the Slovak Republic CLAIRE JORDAN, SLR Consulting EWAN WHYTE, SLR Consulting NICOLE SKAF, Charles River Associates

## INDEX

## PAGE

DR TIAGO DUARTE-SILVA (called)144
MR RICHARD ACKLAM (called)144
Presentation by DR DUARTE-SILVA and146
MR ACKLAM
Cross-examination by MR NEWING
Tribunal questions
Re-direct examination by MR PILAWA207
Questions from THE TRIBUNAL
Discussion re procedural matters

08:59 1	Tuesday & Eabrany 2024	09:01 1	submitted within 30 days of that preceding event.
08.39 1	Tuesday, 6 February 2024 (8.59 am)	2	MR DRYMER: That means 90 days?
2	THE PRESIDENT: Good morning, everyone. It's not yet	2	MR ANWAY: That's correct. The principal reason is to know
4	exactly 9 o'clock but I see everyone is ready, so	4	the time charged for all of those activities. It takes
5	I think we can start.	5	30 days, just given the invoicing systems.
6	Mr Moy is ready as well.	6	MR TUSHINGHAM: And that's agreed by the Claimant.
_	DR MOY: Yes.	0 7	THE PRESIDENT: That's agreed.
7		8	MR TUSHINGHAM: Yes.
8	THE PRESIDENT: Good morning, sir.		THE PRESIDENT: Fine, so we'll discuss it within the
9	DR MOY: Good morning.	9	
10	MR TUSHINGHAM: Madam President, just before we begin,	10	Tribunal over lunch. I don't expect any particular
11	I wonder whether we might just have a very brief	11	difficulties, but let's discuss it and then revert to
12	discussion. We've been in discussion with our friends	12	you. Thanks for having done the work
13	on the other side about a few logistical matters	13	MR TUSHINGHAM: Thank you.
14	concerning post-hearing briefs and the oral closings.	14	THE PRESIDENT: for us.
15	I'm entirely in your hands as to whether you would like	15	Can I start with Dr Moy now?
16	very briefly to discuss that now or whether you would	16	MR NEWING: Yes, Madam President.
17	prefer to discuss that later in the day.	17	(9.02 am)
18	THE PRESIDENT: Well, maybe you can address it now, briefly,	18	DR SIMON MOY (called)
19	so we hear what you have to tell us and then during the	19	THE PRESIDENT: Good.
20	lunch break, for instance, we can discuss it within the	20	You are Simon Moy?
21	Tribunal and revert to you later. That makes sense.	21	DR MOY: Yes, I am.
22	MR TUSHINGHAM: Of course. Stephen.	22	THE PRESIDENT: From Rockflow Resources.
23	MR ANWAY: Members of the Tribunal, we recognise it's a bit	23	DR MOY: I was formerly at Rockflow.
24	early to be discussing this, given that we still have	24	THE PRESIDENT: Oh, yes, we heard that you had changed firm.
25	another day and a half of hearing time left, but we have	25	Can you specify what your new firm is?
	Page 1		Page 3
			Tage 5
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09:04 1	May I start, Madam President.	09:07 1	once they've been developed. These depend on three
2	(9.04 am)	2	interacting elements: reservoir, well and surface, which
3	Presentation by DR MOY	3	are defined using material balance, IPR curves, and
4	DR MOY: Hello, Madam President, and members of the	4	tubing curves. These interact via pressure, fluid
5	Tribunal. I would like to first of all give a little	5	properties, permeability, well configuration, and
6	bit of information about myself. My name is Simon Moy,	6	together they determine flow rates and ultimate
7	I'm a reservoir engineer with 27 years' upstream	7	recoveries. Each of these three elements are described
8	experience. I've been an integral part of subsurface	8	in detail in my first and second reports. The methods
9	teams responsible for onshore developments in	9	I've used are industry standard.
10	Turkmenistan and offshore developments in Trinidad.	10	Of these three I'm going to focus on the material
11	I've been responsible for the classification and	11	balance method and its applicability to the Slovakian
12	categorisation of resources for two oil company IPOs,	12	prospects.
13	Burren Energy and Bayfield Energy. I've undertaken due	13	(Slide 5) So the material balance method is used
14	diligence on projects worldwide, in Africa, Asia, and	14	across an extremely wide range of reservoir types for
15	Europe. I'm a member of the SPEE, the Society of	15	both oil and gas. It can be used for reservoirs under
16	Petroleum Evaluation Engineers. It's a society which	16	a range of drive mechanisms, including solution gas, gas
17		17	cap, aquifer, and compaction drives, and it can be used
18		18	in low permeability reservoirs.
19	I'd like to follow on briefly from my colleague	19	The left-hand example on the screen is taken from
20		20	Dr Longman's reports. That's an extreme example, and in
21		21	fact represents 12 separate fields. In fact, material
22		22	balance could be used on each of those separately.
23	-	23	A more realistic configuration is the generic
24		24	example on the right-hand side of the slide, which
25	C C	25	includes both sealing and non-sealing faults. The oil
	Page 5		Page 7
09:05 1	in mind that two historical wells blew out due to the	09:09 1	here, which is the shaded area, is in pressure
09:05 1 2	in mind that two historical wells blew out due to the presence of oil and gas.	09:09 1 2	here, which is the shaded area, is in pressure equilibrium and has a single oil water contact.
			*
2	presence of oil and gas.	2	equilibrium and has a single oil water contact.
2 3	presence of oil and gas. So in this short presentation I'm going to go	2 3	equilibrium and has a single oil water contact. Production causes the pressure to decline, and different
2 3 4	presence of oil and gas. So in this short presentation I'm going to go through the key elements of my work and methodology, and	2 3 4	equilibrium and has a single oil water contact. Production causes the pressure to decline, and different fault blocks may show pressure declining at different
2 3 4 5	presence of oil and gas. So in this short presentation I'm going to go through the key elements of my work and methodology, and there's four main elements: production profiles,	2 3 4 5	equilibrium and has a single oil water contact. Production causes the pressure to decline, and different fault blocks may show pressure declining at different rates. However, what's important is that using the
2 3 4 5 6	presence of oil and gas. So in this short presentation I'm going to go through the key elements of my work and methodology, and there's four main elements: production profiles, benchmarking, development plans, and the development	2 3 4 5 6	equilibrium and has a single oil water contact. Production causes the pressure to decline, and different fault blocks may show pressure declining at different rates. However, what's important is that using the correct averaging method, one can derive
2 3 4 5 6 7	presence of oil and gas. So in this short presentation I'm going to go through the key elements of my work and methodology, and there's four main elements: production profiles, benchmarking, development plans, and the development schedule.	2 3 4 5 6 7	equilibrium and has a single oil water contact. Production causes the pressure to decline, and different fault blocks may show pressure declining at different rates. However, what's important is that using the correct averaging method, one can derive a representative average reservoir pressure, which can
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2 3 4 5 6 7 8 9	<ul> <li>presence of oil and gas.</li> <li>So in this short presentation I'm going to go through the key elements of my work and methodology, and there's four main elements: production profiles, benchmarking, development plans, and the development schedule.</li> <li>(Slide 3) My starting point has been Mr Howard's calculation of the P50 discovered volumes. This has</li> </ul>	2 3 4 5 6 7 8 9	equilibrium and has a single oil water contact. Production causes the pressure to decline, and different fault blocks may show pressure declining at different rates. However, what's important is that using the correct averaging method, one can derive a representative average reservoir pressure, which can then be input into a material balance calculation. For the Slovakian prospects, the pressures
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<ul> <li>still be definable. All of these examples could be analysed using the motorial balance method.</li> <li>Off discoveries in Slovakia would be similar in standard distributions of oil.</li> <li>They too could be analysed using the material balance method.</li> <li>They too could be analysed using the material balance method.</li> <li>They too could be analysed using the material balance method.</li> <li>They too could be analysed using the material balance method.</li> <li>They too could be analysed using the material balance method.</li> <li>They too could be analysed using the material balance method.</li> <li>They too could be analysed using the material balance method.</li> <li>They too could be analysed using the material balance method.</li> <li>They too could be analysed using the material balance method.</li> <li>They too could be analysed using the material balance method.</li> <li>They too could be analysed using the material balance method.</li> <li>They too could be analysed using the material balance method.</li> <li>The point - A comparation of the fills.</li> <li>The point - A consect end the 2000 wells. The bottom plot shows the instance against Points Chargathian.</li> <li>The point - A consect end the 2000 wells.</li> <li>The point - A consect end the 2000 wells.</li> <li>The point - A consect end the 2000 entries.</li> <li>The point - A consect end the 2000 entries.</li> <li>The point - A consect end the oblaced per reliable.</li> <li>The point - A consect end the 2000 entries.</li> <li>The point - A consect end the 2000 entries.</li> <li>The point - A consect end the 2000 entries.</li> <li>The point - Chargathian side of the plot.</li> <li>The point - Chargathian.</li> <li>They too could be analysed base the interval age and age distribution of the plot is consent the plot is consent whe base than is a consent in the could be analysed base the interval age and age distribution o</li></ul>	09:10 1	but a representative average reservoir pressure would	09:13 1	to roughly 2,000. My demonstrative exhibit, CD-8,
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<ul> <li>structure and would show similar distributions of oil.</li> <li>They too could be analysed using the material balance method.</li> <li>They too could be analysed using the material balance method.</li> <li>(Side 7) So turning to the issue of benchmarking.</li> <li>Fundertook rigorous benchmarking.</li> <li>I undertook rigorous benchmarking.</li> <li>I undertook rigorous benchmarking.</li> <li>I undertook rigorous benchmarking.</li> <li>I undertook rigorous benchmarking.</li> <li>Commalative gas produced per well. Their data was seepses are comparable with the vol Polish Qarphilans.</li> <li>A can be seen from the plots, the modelled gas production with sees rol for the cill evolution. The read of the cill production, with and politic mater.</li> <li>Gas production is from later. deeper wells.</li> <li>Gas production is from later. deeper wells.</li> <li>So a valid comparison of my produced here were fixed and divelopment. Many of these fields were discovered the polits gas rol mains. Now, please bear in mind.</li> <li>Page 9</li> <li>So a valid comparison of my produced less than 50,000 here in my second report.</li> <li>Sowakina.</li> <li>Page 9</li> <li>Fact, these are some of the lodest fields that I've ever 1 looked at. A description of the jobit is given in my second report.</li> <li>Sowakina, at the right-hand side of the plot, is given in my second report.</li> <li>Sowakina, at the right-hand side of the plot, is given in my second report.</li> <li>Sowakina, at the right-hand side of the plot, is given in my second report.</li> <li>Sowakina, at the larger fields on the left-hand side of the plot, ac and be seen, this fields whend.</li> <li>The addition, where data are available. recovery 16 feelds on the second report.</li> <li>Stowakin, and prospects. In fact, pholish fields have seen report.</li> <li>Stowakin, and prospects. In fact, pholish fields have diter there were also and be readevola</li></ul>				
6     They too could be analysed using the material balance method.     6     the KPNR dual from the Polish in Carputinans that's the top plot is coupared with historic production from the same region bottom plot and powerfal insights can be obtained. The top plot aboves the bias date for each of the 2000 wells. The bottom plot shows the the analysed well and field in performance against Polish Carputinan fields, including prospects are comparable with the two Polish gas fields which are highlighted. Average peak rates and campatible with a solution in red.     8       17     As can be seen from the plots, the modelled gas production, with a red interret?! Wells and plotting their deplots on the set plot is given in my second report.     9       10     red wells and plotting their deplots on the right-hand field share fields that I've ever looked at. A description of this plot is given in my second report.     10       11     page 3     Page 1       10     Page 1       11     of a size comparable with the second report.       12     page 1       13     between the plot, as can be seen of the oil benchmarking. The pott.       14     Page 3       15     proget as a comparable with the well benchmarking. The pott.       16     the result of the plot, as can be seen of the oil benchmarking. The pott.       17     Now, toking at the right-hund wide of the plot, is is fields that I've ever looked at. A description of this plot is given in my second report.       18     the development. The well sharing the well benchmarking. The pottex well shart persect well sh				
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11       performance against Polish Carpathian fields, including       11       off production, with a rupid increase in gas production         12       cumulative gas produced per well. Their data was       post 1945, and that's shown in red.         13       supplied in my exhibits, SM-51 to SM-54.       What can be inferred? Well, most of the oil         14       As can be seen from the plots, the modelled gas       What can be inferred? Well, most of the oil         15       propects are comparable with their wo Polish gas fields       What can be inferred? Well, most of these are loss with an infect.         16       description of these plots is given in my second       17       Now, taking these 37, pro-1946 wells, and plotting         17       Now, taking these shows in the inferred?       16       Gas production, with a rupit ress, and over half are less         18       A description of the plot, supplied in my second       17       Now, taking these shows into, in fact,         19       plot shows the historic volume of oil produced per field       18       Now, taking the indivision of my productivity per well         21       plot shows the historic colume of oil produced per field       20       So a valid comparison of my productivity per well         22       that dy the areas and ould produce       21       ant development.         23       fact, these are some of the oldest fields that 1 Ye ever       25				
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13       supplied in my exhibits, SM-51 to SM-54,       13       What can be inferred? Well, most of the oil         14       As can be seen from the plots, the modelled gas       14       production, that's 87%, has come from the pre-1946         15       prospects are comparable with the vo Polish gas fields       14       production, that's 87%, has come from the pre-1946         16       description of these plots is given in my second       16       Gas production is from the right-hand side shows that, in fact,         17       creamlative volume or oil produced per field       18       their depths on the right-hand side shows that, in fact,         18       A description of this yoes ro foil exploration       18       that this is the result of 150 years of oil exploration         20       Glide 8) Let's examine the oil benchmarking. The       19       96% are less than 800 metres.       16         21       in the Polish Carpathans. Now, please bear in mind       23       that all on please boar in mind       23         23       that uthis is the result of 150 years of oil exploration       24       has to be between prospects in group 1b and 2b only.         24       has to be setween prospects in group 1b and 2b only.       09:12       therefore have much higher pressures and would produce         25       the reget 1       Now, looking at the right-hand side of the plot, sis zer may exin in       9				
14       As can be seen from the plots, the modelled gas       14       production, that's 78%, has come from the pre-1946         15       prospects are comparable with the two Polish gas fields       15       wells, and most of these are less than 1,000 metres.         16       which are highlighted. Average peak rates and       16       wells, and most of these are less than 1,000 metres.         18       A description of these plots is given in my second       17       Now, taking those 377 pre-1946 wells and plotting         19       report.       19       96% are less than 800 metres, and over half are less         20       (Slide 8) Let's examine the oil benchmarking. The       19       96% are less than 800 metres, and over half are less         21       plot shows the bistoric volume of oil produced per field       18       that this is the result of 150 years of oil exploration         22       thorough drilling of surface features and oil seeps. In       23       So a valid comparison of my productivity per well         21       fact, these are some of the oldest fields that I've ever       2       Other prospects in group 3b and 9b are deeper and would         23       second report.       23       (Slide 11) So let's recap. There are 977 pre-1946         44       move, looking at the right-hand side of the plot, is given in my second report.       3       (Slide 11) So let's recap. There are 977 pre-1946				-
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16       which are highlighted. Average peak rates and       16       Gas production is form later, deeper wells.         17       cumulative volume per well cover similar ranges.       16       Gas production is form later, deeper wells.         19       report.       90% are less than 800 metres, and over half are less         20       (Slide 3) Let's examine the oil benchmarking. The       90% are less than 800 metres.       90% are less than 800 metres.         21       plot shows the historic volume of oil produced per field       20       than 400 metres.       These two depts are equivalent to my         22       plot shows the historic volume of oil produced per field       21       and development. Many of these fields were discovered       23       30 valid comparison of my productivity per well         24       and development. Many of these fields that I've ever       20       Other prospects in group 1b and 2b only.         25       through drilling of surface features and oil seeps. In       Page 9       Page 11         26       fact, these are some of the loldest fields that I've ever       20       (Silde 1) So ler scep. There are 977 pre-1946         3       second report.       4       Now, looking at the right-hand side of the plot, as can be scen, the Slovak oil       5         3       for the avial scine data, although it's       116       161       100       100				
17       cumulative volume per well cover similar ranges.       17       Now, taking those 977 pre-1946 wells and ploting their deptis on the right-hand side shows that, in fact, these properties in group 1 b and 2 boil prospects shown in my second report at the rough drilling of surface features and over half are less.         20       (Side 8) Let's examine the oil benchmarking. The plot shows the historic volume of oil produced per field 22 in the Polish Carpathians. Now, please bear in mind that this is the result of 150 years of oil exploration and development. Many of these fields were discovered 24 that this is the result of 150 years of oil septon.       18         21       fact, these are some of the oldest fields that I've ever 2 looked at. A description of this plot is given in my second report. 1 fact, these are some of the oldest fields that I've ever 2 looked at. A description of this plot is given in my second report. 1 fact, these would be of a size too small to be identifiable 17 from the available Slovakian groupced less than 500,000 barrels, 6 these would be of a size too small to be identifiable 17 from the available Slovakian is elsmic data, although it's 18 kely that structures of this size may exist in 39 Slovakia.       19       11       therefore have much higher pressures and would produce at a higher rate.         10       Now, looking at the larger fields on the left-hand side of the plot, as can be seen, the Slovaki oil production would harp eak oil production cocurred in 390% of the wells are eavailable, recovery 16 factors have been calculated, and one can see that these 10 for the developed to the developed 17 maximising production.       19       10       Now, considering that 90% of the wells would be of the tore oils covereis.       10				
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20       (Slide 8) Let's examine the oil benchmarking. The plot shows the historic volume of oil produced per field 22 in the Polish Carpathians. Now, please bear in mind 23 that this is the result of 150 years of oil exploration and development. Many of these fields were discovered 25 through drilling of surface features and oil seeps. In Page 9       20       than 400 metres. These two depths are equivalent to my group 1b and 2b oil prospects shown in my second report at table 3-4.         20       that this is the result of 150 years of oil exploration and development. Many of these fields were discovered 25       So a valid comparison of my productivity per well has to be between prospects in group 1b and 2b only.         20       fact, these are some of the oldest fields that I've ever 2 looked at. A description of this plot is given in my 3 second report.       30       So a valid comparison of my productivity per well has to be between prospects in group 1b and 2b only.         09:12       1       fact, these are some of the oldest fields that I've ever 2 looked at. A description of this plot is given in my 3 second report.       91:1       therefore have much higher pressures and would produce 2 at a higher rate.         3       (Side 1) So let's recap. There are 977 pre-1946       wells, which hy produce 17% of the historic Carpathian oil 2 production, and that's 71.5 MMstb. That works out at an average of 73 Mstb/well.         7       Torm the available Slovakian.       10       Now, looking at the larger fields on the left-hand 11       11         8       bickly that structures of this size may exist in 12       prospects, which I've marked				
<ul> <li>21 plot shows the historic volume of oil produced per field in the Polish Carpathians. Now, please bear in mind and development. Many of these fields were discovered through drilling of surface features and oil seeps. In</li> <li>Page 9</li> <li>O9:12 1 fact, these are some of the oldest fields that I've ever looked at. A description of this plot is given in my second report.</li> <li>(Silde 11) So let's recap. There are 977 pre-1946</li> <li>Wells, which produced 87% of the historic Carpathian oil production, and that peak oil production could have been from versy shallow wells.</li> <li>(Silde 11) So let's recap. There are 977 pre-1946</li> <li>Wells, which produced 87% of the historic Carpathian oil production, and that peak oil production occurred in 9 Slovakia.</li> <li>In addition, where data are available, recovery factors have been calculated for the developed 15 lorackiat an garped ver dilculated for the developed 16 factors have been calculated of and eveloped 17 bracket the range I've calculated for the developed 18 Slovakian oil prospects. In fact, Polish fields have 19 slightly higher recoversies.</li> <li>Of the Optic recoversies.</li> <li>Of slige JL booking at the PGNiG data supplied by 10 practed the runge I've calculated for the developed 13 slovakian oil prospects. In fact, Polish fields have 14 and group 2b, taking into account that these wells would 15 lorakian oil prospects. In fact, Polish fields have 16 techniques, minimising wellore formation damage and 17 maximising production.</li> <li>Slovakian oil prospects. In fact, Polish fields have 18 Slovakian oil prospects. In fact, Polish fields have 19 slightly higher recoversies.</li> <li>Of Kle 9 JL booking at the PGNiG data supplied by 10 rLongman, a simple verification process revealed that 2 2,000, roughly 2,000 were inappropriate mainly because 14 that the is not a single development: 15 the data indicated that they were drilled into 15 tratage and the development in the save ali</li></ul>		-		
<ul> <li>in the Polish Carpathians. Now, please bear in mind that this is the result of 150 years of oil exploration and development. Many of these fields were discovered through drilling of surface features and oil seeps. In Page 9</li> <li>Page 9</li> <li>(9:12 1 fact, these are some of the oldest fields that I've ever 2 looked at. A description of this plot is given in my second report.</li> <li>Mow, looking at the right-hand side of the plot, 5 i.e. fields having produced less than 500,000 barrels, 6 these would be of a size too small to be identifiable for mine available Slovakia.</li> <li>Now, looking at the right fields on the left-hand side of the plot, as can be seen, the Slovak oil 12 prospects, which I've marked in yellow and purple, are 13 of a size comparable with those Polish fields have 15 In addition, where data are available, recovery 16 factors have been calculated for the developed 18 Slovakian oil prospects. In fact, Polish fields have 19 slightly higher recoveries.</li> <li>(Silde 9) Looking at the PRNG data supplied by 0r Longman, a simple verification process revealed that 2 2,000, roughly 2,000 were inappropriate mainly because 14 stratigraphic intervals which were too deep. This QC process reduced the number of entries from about 4,000</li> </ul>		, , ,		
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24       and development. Many of these fields were discovered through drilling of surface features and oil seeps. In Page 9       24       has to be between prospects in group 1b and 2b only.         25       through drilling of surface features and oil seeps. In Page 9       23       Other prospects in group 1b and 2b only.         09:12       1       fact, these are some of the oldest fields that I've ever looked at. A description of this plot is given in my second report.       09:15       1       therefore have much higher pressures and would produce at a higher rate.         3       second report.       3       (Silde 11) So let's recap. There are 977 pre-1946         4       Now, looking at the right-hand side of the plot, file these would be of a size too small to be identifiable       7       Now, considering that 90% of the wells were drilled         6       these would be of a size too small to be identifiable       7       Now, considering that 90% of the wells were drilled         10       Now, looking at the larger fields on the left-hand       16       17       Now, considering that 90% of the wells were drilled         11       side of the plot, as can be seen, the Slovaki oil       7       Now, considering that 90% of the wells were drilled         12       A reasonable comparable with those Polish Carpathian       11       12       A reasonable comparison could be made with my       13         13       of a size comarapoly       and				
25       through drilling of surface features and oil seeps. In       25       Other prospects in group 3b and 9b are deeper and would         09:12       1       fact, these are some of the oldest fields that I've ever       09:15       1       therefore have much higher pressures and would produce         2       looked at. A description of this plot is given in my       3       second report.       09:15       1       therefore have much higher pressures and would produce         4       Now, looking at the right-hand side of the plot,       i.e. fields having produced less than 500,000 barrels,       09:15       1       therefore have much higher pressures and would produce         7       Now, looking at the right-hand side of the plot,       3       (Silde 11) So let's recap. There are 977 pre-1946         8       these would be of a size too small to be identifiable       6       an average of 73 Msth/well,       7         7       Now, looking at the larger fields on the left-hand       8       before 1930, and that peak oil production occurred in         11       side of the plot, as can be seen, the Slovak oil       9       1910, that's from wells drilled at or before that date,         12       prospects, which I've marked in yellow and purple, are       14       and group 2b, taking into account that these wells would         13       of a size comparable with those Polish Carpathian       14       and gr		• •		
Page 9       Page 11         09:12 1       fact, these are some of the oldest fields that I've ever       09:15 1       therefore have much higher pressures and would produce         2       at a higher rate.       (Slide 11) So let's recap. There are 977 pre-1946         4       Now, looking at the right-hand side of the plot,       5       (Slide 11) So let's recap. There are 977 pre-1946         5       i.e. fields having produced less than 500,000 barrels,       6       an average of 73 Mstb/well.         6       these would be of a size too small to be identifiable       7       Now, considering that 90% of the wells were drilled         7       before 1930, and that peak oil production occurred in       9       1910, that's from wells drilled at or before that date,         10       Now, looking at the larger fields on the left-hand       side of the plot, as can be seen, the Slovak oil       9         12       prospects, which I've marked in yellow and purple, are       16       A reasonable comparison could be made with my         13       of a size comparable with those Polish Carpathian       11       and group 2b, taking into account that these wells would         14       and group 2b, taking into account that these wells would       16       techniques, minimising roduction.         15       In addition, where data are available, recovery       16       techniques, minimising roduction.				
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09:16 1	five gas discoveries.	09:19 1	scheme and timescales reflect those observed in other
2	Secondly, please examine the depths of these wells:	2	onshore European developments, and also reflect personal
3	the vast majority are less than 820 metres. From my	3	experience.
4	onshore experience, wells of this type can be drilled	4	Thank you very much.
5	with a simple rig, completed, and hooked up in less than	5	THE PRESIDENT: Thank you.
6	14 days.	6	Do I give the floor to Mr Pilawa?
7	Please also look at the year 2021, the busiest year	7	MR PILAWA: Yes.
8	for drilling. Of the 45 wells required, 43 are less	8	THE PRESIDENT: Yes please.
9	than 770 metres. From a drilling point of view, all of	9	(9.19 am)
10	the above is doable. The majority of these prospects	10	Cross-examination by MR PILAWA
11	are shallow, they can be drilled quickly and developed	11	Q. Thank you very much.
12	using standard oilfield equipment.	12	Good morning, Dr Moy.
13	I'd like to present a couple of European examples	13	A. Good morning.
14	which illustrate the onshore oilfields similar to those	14	Q. I'm Douglas Pilawa and I will be asking a few questions
15	described in my report that are currently being	15	today.
16	developed.	16	If we can keep this presentation up for just
17	(Slide 13) The first example is the Anshof field in	17	a moment, and if we can go back a slide.
18	Austria. It's presented here as an example of	18	Dr Moy, was this information in either one of your
19	a European onshore discovery which was rapidly developed	19	expert reports?
20	and produced in short timeframe, including the	20	A. No, it wasn't.
21	environmental permitting, using many of the techniques	21	Q. Okay. I don't need the presentation up anymore.
22	I have mentioned in my development scheme. If the	22	MR DRYMER: And what about the article that you mentioned.
23	Tribunal is interested, there is a very nice online	23	I didn't note the name. Is that referenced in any of
24	article in NS Energy.	24	your reports?
25	The associated gas production would still need to be	25	A. No, they're not.
-	6 1	-	
	Page 13		Page 15
09.17 1	exported or burnt for power, and although it's not clear	09:20 1	MR DRYMER: Thank you I didn't remember it
09:17 1	exported or burnt for power, and although it's not clear from the article what the solution to this has been the	09:20 1	MR DRYMER: Thank you. I didn't remember it. MR PILAWA: Can you tell me your familiarity with the Slovak
2	from the article what the solution to this has been, the	2	MR PILAWA: Can you tell me your familiarity with the Slovak
2 3	from the article what the solution to this has been, the issue has clearly been resolved with little fuss and in	2 3	MR PILAWA: Can you tell me your familiarity with the Slovak oil and gas regulatory framework?
2 3 4	from the article what the solution to this has been, the issue has clearly been resolved with little fuss and in short timeframe.	2 3 4	<ul><li>MR PILAWA: Can you tell me your familiarity with the Slovak oil and gas regulatory framework?</li><li>A. I'm not familiar with it, no.</li></ul>
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$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	<ul> <li>A. Only from what I've seen from maps.</li> <li>Q. Okay. If we could start at paragraph 8 and 9 of your first expert report, this is on page 5. Do you have it in front of you?</li> <li>A. Sorry.</li> <li>Q. I wasn't sure if you were looking at the screen or</li> <li>A. No, I'm ready, sorry about that.</li> <li>Q. Just to follow on and understand where your expert report lies in the three, in paragraph 8 you state that the first question you were asked to address was to: "Identify the likely volume of hydrocarbons which hypothetically could be produced from the prospects in the licence areas should they contain hydrocarbons."</li> <li>A. That's correct, yes.</li> <li>Q. Thank you. And I understand really the what you're trying to do here is Mr Atkinson has developed his PIIP estimations, which is amounts of oil and gas that might be in the ground.</li> <li>A. Might be, yes.</li> <li>Q. And so your analysis is, if there actually is oil or gas, then you are calculating the amount that might be produced from those amounts?</li> <li>A. It's the whole process is we have a selection of structures that have been mapped, and we have a selection of their relative in-place volumes. And the Page 17</li> </ul>	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	<ul> <li>" generate representative most-likely production profiles for the prospects in the licence areas and outline a feasible development scheme." Correct?</li> <li>A. Yes.</li> <li>Q. And that development scheme assumes that exploration drilling occurs in the first instance; right?</li> <li>A. Well, you would have to discover, yes, oil and gas first through drilling.</li> <li>Q. And your model assumes that Discovery Global would drill an exploration well at all 40 prospects that Mr Atkinson identified; right?</li> <li>A. That's the yes, that's over two years.</li> <li>Q. Yes. And I understand that the way that the three reports interact with one another is that Mr Howard's decision-tree modelling produced successful oil and gas prospects; is that fair?</li> <li>A. Not quite. So the decision-tree analysis gives you an estimate based on first of all, you've got each of the in-place volumes for each of the mapped prospects, each of which may or may not contain hydrocarbons. You then have a geological chance of success. Both of those have been estimated by Mr Atkinson. The decision-tree process is a robust statistical method that you then run through to allow you to estimate a P50 likely</li> </ul>
11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>statistical process that's gone through allows a P50 discoverable volume to be estimated. So that is, if you were to go out and drill that licence area in the way that's been described, what is the P50 chance, or what volume would you get from that process.</li> <li>And so and also what selection of prospects are you likely to find that are filled with hydrocarbons, either oil or gas. That process is described also in one of the papers that I present in my second report.</li> <li>Q. But really what I'm trying to or what I'm wrestling with is the uncertainty in this analysis.</li> <li>A. That's dealt with through the statistical process that we've undertaken, which is rigorous, to give you it is an estimate. It's P50 of the likely volumes you're going to discover if you undertook a drilling campaign.</li> <li>Q. The likely volumes that you will discover if there is oil or gas at each one of these prospects; right?</li> <li>A. There won't be oil and gas at each one because you're drilling the 40 prospects. But it's telling you what you are likely to discover if you were drill those 40 exploration wells, on those 40 structures that Mr Atkinson has identified from the seismic.</li> <li>Q. And if we can go down to your next paragraph: "Separately for both oil and gas" You were asked to:</li> </ul>	09:27 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	<ul> <li>discoverable volume should you drill all 40 of those. And then from that volume, that P50 volume and that was calculated for all four of the trends, the geological trends you have a series of scenarios which represent the successful prospects that would contain that P50 volume.</li> <li>So there's a selection for the two gas trends, and there's a selection of prospects for the two oil trends. And that's given us the eight prospects which we've identified that would be either filled with oil or with gas.</li> <li>So I was just trying to ultimately get to the oil and gas prospects that you actually create a development plan for.</li> <li>Yes, sure.</li> <li>So, just to come back to that, after this campaign of drilling 40 wells, the end product are oil prospects and gas prospects; right?</li> <li>Yes. A list of eight that are considered to be successful, statistically determined, out of the drilling of all 40.</li> <li>And those eight are the ones that you used to create your development plan; right?</li> <li>Yes. Yes.</li> <li>And I understand that the development scheme for those Page 20</li> </ul>

09:28 1	eight, that's made on a but-for basis?	09:31 1	A. It's the but-for case.
2	A. Yes, so it's assuming, yes, exactly.	2	Q. It's not based on any fulsome drilling programme; is
3	Q. And to understand that but-for basis, it's: but for	3	that fair?
4	alleged actions of Slovakia, the development scheme is	4	A. It's a we took into account when we did the
5	what would likely have occurred?	5	statistical approach of a drilling campaign with
6	A. That's correct.	6	a five-well walkway
7	Q. Okay.	7	Q. Dr Moy, I'm actually just looking for there's no
8	Now, you're aware that the extent of Discovery's	8	document, for example?
9	drilling programme was to drill three exploration wells,	9	A. No.
10	one at Smilno, Krivá Ol'ka, and Ruská Poruba; right?	10	Q. It's a drilling programme that you used?
11	A. Yes.	11	A. No, there isn't.
12	Q. And I believe that Mr Atkinson confirmed yesterday that	12	Q. Okay. And I want to come back to the Smilno prospect,
13	there is a very low chance of an actual accumulation of	13	the gas prospect that we were just talking about.
14	oil or gas at Ruská Poruba; do you recall that?	14	A. Mm-hm.
15	A. I vaguely recall that.	15	Q. So if we could open up to page 29 of your first expert
16	Q. Okay. And I understand that the development scheme that	16	report.
17	you've generated, the end product is one large,	17	A. Mm-hm.
18	integrated development plan; is that a fair	18	Q. And this is paragraph 115.
19	characterisation?	19	A. Okay. I have it.
20	A. No. It's not.	20	Q. Okay. Great.
20	Q. Well, maybe this will help. What I'm trying to	20	So this is the Smilno gas prospect, and you explain
22	understand is, for example, at Smilno, the Smilno	21	here in paragraph 115 that:
22	prospect, your development plan does not say: here's the	22	" Discovery envisaged a new 15 km
23	Smilno prospect, if Discovery would have drilled here	23	pipeline"
24	and found oil, here's the specific development plan that	24	From the original well or any subsequent development
25	and found on, nere's the specific development plan that	23	Tom the original wen of any subsequent development
	Page 21		Page 23
09:30 1	future production from Smilno would look like, but only	09:32 1	well at Smilno, and that pipeline would ultimately lead
09:30 1 2	at Smilno.	09:32 1 2	into the Slovakian gas system; is that fair?
	-		into the Slovakian gas system; is that fair? A. Yes, based on what I have seen of those documents, yes.
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09:34 1 what this path might have looked like? There we go.	09:36 1 I'm going to walk through a series of steps that I think
3 might not have seen this document, that bottom yellow	3 generally the right idea. Does that sound okay?
4 line, that's the Slovakian pipeline system; right?	4 A. Yes, by all means.
5 A. I believe, yes, that's	5 Q. Okay. So, first and foremost, if revenues wanted to be
6 Q. Okay. And the red-dotted line is a potential route that	6 generated from this, gas would need to be discovered?
7 this pipeline could have taken?	7 A. Yes.
8 A. Yes.	8 Q. Okay. It would need to be in sufficient quantities to
9 Q. Okay.	9 justify development; right?
10 Now, you didn't undertake an analysis about the	10 A. Yes.
11 feasibility of building this specific pipeline; right?	11 Q. Okay. And if the gas quantities justify development,
12 A. That's correct, I didn't.	12 the exploration well would need to be turned into
13 Q. Okay. And as far as you're aware, AOG, or Discovery	13 a development well, or an additional well might need to
14 Global, didn't have any draft agreements in place to use	14 be drilled that would become a development well?
15 it, or any permits necessary for this pipeline?	15 A. Yes, either of those.
16 A. I'm not aware of any.	16 Q. Yes. Okay. Great.
17 Q. Okay. And this pipeline, this scenario, it's not	17 And under Slovak law, as we discussed earlier, any
18 reflected in your ultimate development plan; is that	18 development well must undergo a preliminary EIA. Are
19 fair?	19 you comfortable accepting that point?
20 A. That's yes, that's correct.	20 A. Yes, I understand that that needs to be done.
21 Q. Okay.	21 Q. And of course that preliminary EIA could turn into
22 A. Because of the volume of gas.	22 a more fulsome assessment, which we've been calling
23 Q. Okay. We'll come to that volume of gas. But just this	23 a full EIA?
24 standalone possibility is not reflected in the	24 A. What are the I don't know what the triggers would be
25 development programme?	25 for that.
25 development programme.	25 101 ulat.
Page 25	Page 27
09:35 1 A. Yes, this is for one well.	09:37 1 Q. Okay. And while all of this is going on, maybe
09:35 1 A. Yes, this is for one well. 2 Q. Yes. Okay. Thank you.	09:37 1 Q. Okay. And while all of this is going on, maybe 2 simultaneously, AOG would have to begin construction of
2 Q. Yes. Okay. Thank you.	2 simultaneously, AOG would have to begin construction of
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09:39 1	generating revenues?	09:41 1	earlier the successful gas prospects, that project.
2	A. I presume so, yes.	2	And we can take these images down, and if we could pull
3	Q. Okay. And of course, if it can't build that pipeline,	3	up Respondent's demonstrative number two, it should be
4	it can't produce gas from this site, right?	4	RD-2, or RD-002. Great. Thank you so much.
5	A. There might be and there are other options. So, for	5	We're also going to be going back to parts of your
6	example, the gas could be used for gas to power.	6	expert report, and if you need both on the screen,
7	Obviously you're then generating power, you need to	7	I just want to make sure that we're oriented, so just
8	export route. That is a scheme that isn't described in	8	let me know.
9	my report, but that's commonly done as well, when it's	9	A. Thank you.
10	difficult to get an export pipeline out from a site, for	10	Q. I'm sure that you have seen this image before, right?
11	example.	11	A. I have, yes.
12	Q. And what does that prospect look like?	12	Q. And generally speaking, do you accept that this
13	A. You usually have a gas to power generator, so the gas	13	represents somewhat what your final development model
14	will go in, get dehydrated at the wellhead. It then	14	will look like?
15	goes to a gas engine. That will burn the gas and	15	A. Yes, in general.
16	generate electrical power, which obviously then has to	16	Q. Okay.
17	be hooked up to the national grid.	17	A. Yes, it's an amalgam of various sources.
18	Q. But as far as you're aware, that was not AOG's plan for	18	Q. Exactly. But you're okay with this image, right?
19	this site, right?	19	A. Yes, it's fine.
20	A. Clearly not, no, not in this case. But it's an option	20	Q. Okay, and now we're going to start looking at your
21	for any operator.	21	expert report at the same time. If it's possible to
22	Q. And is it fair to say that while Krivá Ol'ka is an oil	22	keep this up here and ideally still see some of the
23	prospect, these are generally and I'm happy for you	23	details of it, we're going to try that.
24	to walk me through them, but these are generally the	24	So if we could also pull up Dr Moy's first expert
25	same steps. Of course, no need for a pipeline to	25	report, specifically page 53, paragraph 207.
	Page 29		Page 31
09:40 1	connect to the Slovakian distribution system, but these	09.43 1	Ves perfect Thank you so much. Okay in
09:40 1	connect to the Slovakian distribution system, but these	09:43 1	Yes, perfect. Thank you so much. Okay, in
2	are the same general steps to bring that well into	2	paragraph 207, you made reference to this earlier, this
2 3	are the same general steps to bring that well into production?	2 3	paragraph 207, you made reference to this earlier, this is talking about the gas developments, and can you
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09:44	1	would connect at some point along its length.	09:47 1	And there's also a central gas-processing facility
	2	Q. Fair enough. And the reason it has to take this route	2	that would need to be built; right?
	3	is because the gas prospects produce an amount, or gas	3	A. Yes. That would collect the gas from the gas wells.
	4	rate, plateau gas rates that are too high for the	4	Q. Okay. And the model anticipates the pipelines for the
	5	domestic pipeline system?	5	associated gas that we just discussed; right?
	6	A. Yes.	6	A. Yes, they're not marked here, but they would be from
	7	Q. Okay.	7	those oilfields that are at the bottom right-hand side.
	8	A. That's the case, because the capacities are too small.	8	Q. And at no point does the model ever consider that
	9	Q. Okay. So in the but-for model, the development scheme	9	Discovery fails to obtain all of the permits or
	10	that you've put forward, the five gas prospects like	10	authorisations required for the project; right?
	11	this can only succeed if that pipeline is built; right?	11	A. That's correct.
	12	A. Yes. That's correct.	12	Q. Okay.
	13	Q. Okay.	13	If we could go to your second report, and
	14	Now, for the other prospects, or the successful	14	specifically page 36. This is figure 5-1.
	15	ones, we're going to move to the oilfields.	15	A. Yes, I have it.
	16	A. Mm-hm.	16	Q. Sorry, this should be page 36. Thank you.
	17	Q. And those are there are three of them; right?	17	Maybe we can make this a little easier on the eyes.
	18	A. Yes.	18	We can remove the development plan and just focus on the
	19	Q. And I think we talked about earlier that all three of	19	report. Right. We can blow that up a little bit.
	20	those oilfields anticipate associated gas being dealt	20	Thank you.
	21	with by being pumped back into the Slovakian	21	So this is the schedule that you have proposed for
	22	distribution system; right?	22	the exploration and development plan; right?
	23	A. That's correct, yes.	23	A. That's correct.
	24	Q. And actually Mr Howard's DCF monetises that amount; the	24	Q. And if we start at the top, this is the exploration
	25	idea is that those are sold, right, those amounts of	25	phase?
		Page 33		Page 35
		1 450 55		1 420 55
09:46	1	gas?	09:49 1	A. The top line, yes.
09:46	2	A. Yes, the small component, yes.	2	Q. Exactly. That blue line that says 20 and 20?
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09:50		09:53 1	I'm thankful for that. Would you agree with me that the
	2 of issues that could arise. That's uncontroversial;	2	PRMS represents industry guidelines?
	3 right?	3	A. Yes, certainly.
	<ul><li>A. There could be, yes.</li><li>Q. There could be. But in your model, all of that, even if</li></ul>	4 5	Q. And oil and gas companies are both familiar with and utilise PRMS?
	Q. There could be. But in your model, all of that, even if there are major operational delays, 40 wells are still	6	A. Yes, they do.
	drilled by the end of 2018; right?	7	Q. And financial institutions understand what the PRMS is?
	A. I've assumed	8	A. One would hope so, yes.
	• THE PRESIDENT: Can I just ask for a clarification. If	9	Q. I was hoping that would be non-controversial!
1		10	You have extensive experience with PRMS; right?
1		11	A. Yes. I do.
1		12	Q. And you understand the reserve and resource
1	3 THE PRESIDENT: That's not in there. Thank you. Apologies.	13	classification under the PRMS?
1		14	A. That's correct.
1	5 So you were instructed to assume that drilling would	15	Q. And the classification of reserves is an important step
1	6 commence on 1 January 2017; correct?	16	in a hydrocarbons project; right?
1	7 A. Yes.	17	A. It is, yes.
1		18	Q. It signifies that the project has reached a stage where
1	instruction, you were also instructed to assume that	19	it can be considered commercially viable; right?
2	D Discovery already had access rights to each of these	20	A. If one is in the situation where you've got reserves.
2		21	Yes.
2	Ĩ	22	Q. Thank you. And that reserves classification often helps
2		23	secure financing for a project; right?
2		24	A. Yes, it would.
2	5 to read the transcript. One moment. (Pause)	25	Q. And generally speaking, that reserves classification is
	Page 37		Page 39
00.51		00.54 1	
09:51		09:54 1	made in some form of an independent report, like
	2 securing the access rights as part of the site	2	a competent person's report, right?
	<ul><li>2 securing the access rights as part of the site</li><li>3 preparation within the two years, or do you assume it's</li></ul>	2 3	a competent person's report, right? A. Yes, usually.
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2	under the PRMS guidelines to make a reserves	2 be filled with gas and oil. At that point they would be	u
3	classification if one of those criteria is not met?	<ul> <li>3 considered and classified as contingent resources.</li> </ul>	
		-	
4	A. Yes. Could you repeat those for me, please?	4 So the difference between contingent resources and	
5	Q. Sure. Do you want to open up the PRMS?	5 moving on to reserves, is down to seven commercial	
6	A. No, no, no, just	6 criteria, and that includes the finance, all the you	
7	Q. Okay: discovered.	7 know, the environmental, the paperwork, and just	
8	A. Yes.	8 development plans.	
9	Q. Recoverable.	9 So when I describe the volumes that would be	
10	A. Mm-hm.	10 produced as reserves, it's in a but-for case, assuming	
11	Q. Commercial.	11 that those commercial criteria would be met following	
12	A. Mm-hm.	12 the successful discovery.	
13	Q. And remaining.	13 THE PRESIDENT: But on what basis, on what data do yo	ou
14		14 accept that the commerciality requirements would be me	
15	Q. You need all four of those, right?	15 A. Because, first of all, it's done elsewhere, it's not	
16		16 an unusual development. It's not of a size that's	
10	Q. And "discovered" means that drilling has taken place and	17 unreasonable. All of these seven elements, so the	
18	confirmed the existence of hydrocarbons, right?	18 development plan, the export route, they are all doable,	
	A. That's correct.		
19		19 they are all feasible, they're all reasonable.	
20	Q. So it would be contrary to the PRMS guidelines to make	20 I haven't seen anything in what needed to be done	
21	a reserves classifications if the hydrocarbons are	21 that one would suggest is unattainable, unreasonable.	
22	undiscovered, right?	22 So in a but-for case, knowing the will of Discovery,	
23	A. Yes. Usually, yes.	they, having made a discovery, would actually want to	
24	Q. So your expert reports, which make a reserves	24 develop it. I can't see any barriers that would stop	
25	classification, even though Discovery's hydrocarbons are	any of those seven commercial criteria from being met.	
	Page 41	Page 43	
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09:57 1	undiscovered, that does not conform to the PRMS	10:00 1 THE PRESIDENT: Provided they make the discovery, which y	you
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10:01	1	Q. It wouldn't. So it's unlikely that you would qualify	10:04 1	
	2	for reserves-based lending, for example, with	2	
	3	a competent person's report that operates on a but-for	3	
	4	scenario, because that's not common; right?	4	
	5	A. Usually the competent person's report is a description	5	This requirement says that there must be:
	6	of what's there at the moment.	6	"Evidence that legal, contractual, environmental,
	7	Q. And what we have at the moment here are undiscovered	7	regulatory, and government approvals are in place or
	8	hydrocarbons; right?	8	will be forthcoming, together with resolving any social
	9	A. That's correct, in a prospective area.	9	and economic concerns."
	10	Q. If we can pull up Dr Moy's first expert report, and we	10	Starting with evidence of legal approvals, you've
	11	are going to go excuse me, just give me one moment.	11	provided no evidence of what legal approvals might be
	12	(Pause)	12	necessary; correct?
	13	Can we go to page 57 of his first expert report, and	13	A. Well, that's outside my area of expertise, but I
	14	at the same time I'm sorry, at the same time can we	14	Q. And you've
	15	please pull up Exhibit AA-037. And specifically, and	15	A I simply the development being described in my
	16	just this is PRMS.	16	
	17	A. Correct.	17	Europe. So
	18	Q. And specifically if we can go to page 11 of the PDF	18	_
	19	itself. Okay. So down at the bottom is where we start	19	
	20	the discussion of the determination of commerciality and	20	
	21	the seven criteria that must be met; you see that,	21	
	22	right?	22	Q. And you've provided no place that they are in place or
	23	A. Correct, yes.	23	
	24	Q. We're going to look at this in your expert report at the	24	
	25	same time because I think there's a little bit of	25	
		Page 45		Page 47
10.03	1	a difference in language, but Liust want to be clear	10.05 1	A It's not my area of expertise
10:03		a difference in language, but I just want to be clear	10:05 1	5 1
10:03	2	here.	2	Q. For contractual approvals, you haven't exhibited any
10:03	2 3	here. A. Mm-hm.	2 3	Q. For contractual approvals, you haven't exhibited any contracts or drafts of contracts for all of the
10:03	2 3 4	here. A. Mm-hm. Q. So the very first commerciality requirement in your	2 3 4	Q. For contractual approvals, you haven't exhibited any contracts or drafts of contracts for all of the infrastructure needed for this project, right?
10:03	2 3 4 5	<ul><li>here.</li><li>A. Mm-hm.</li><li>Q. So the very first commerciality requirement in your report says:</li></ul>	2 3	<ul><li>Q. For contractual approvals, you haven't exhibited any contracts or drafts of contracts for all of the infrastructure needed for this project, right?</li><li>A. No, I haven't.</li></ul>
10:03	2 3 4 5 6	here. A. Mm-hm. Q. So the very first commerciality requirement in your report says: "A technically mature development plan."	2 3 4 5 6	<ul><li>Q. For contractual approvals, you haven't exhibited any contracts or drafts of contracts for all of the infrastructure needed for this project, right?</li><li>A. No, I haven't.</li><li>Q. Regarding environmental approvals, we discussed the</li></ul>
10:03	2 3 4 5 6 7	<ul> <li>here.</li> <li>A. Mm-hm.</li> <li>Q. So the very first commerciality requirement in your report says: <ul> <li>"A technically mature development plan."</li> <li>Under PRMS it says there must be:</li> </ul> </li> </ul>	2 3 4 5 6 7	<ul> <li>Q. For contractual approvals, you haven't exhibited any contracts or drafts of contracts for all of the infrastructure needed for this project, right?</li> <li>A. No, I haven't.</li> <li>Q. Regarding environmental approvals, we discussed the preliminary EIA that's required for all producing wells.</li> </ul>
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10100	2	encompasses 99 producing wells and at least two major	2	Q. And is this a process that is taken into account by
	3	pipelines constructed in Slovakia?	3	other people when making decisions about
	4	A. Well, they have pipelines already. They have wells	4	(overspeaking)?
	5	already in Slovakia, not in this area.	5	A. It would be, yes. Yes.
		-		Q. Thank you. You were also asked some questions this
	6	Q. So is your testimony that you don't think there would be	6	
	7	social concerns about this development plan?	7	morning about the oil prospects and how associated gas
	8	A. I don't think there would be anything that couldn't be	8	may be dealt with.
	9	overcome with the right approach. Nothing that's	9	A. Yes.
	10	proposed in my report is of a scale or requiring	10	Q. Can you explain whether the ability to extract and
	11	technology that doesn't exist. It's done right now in	11	generate revenue from the oil is affected by how the
	12	Europe.	12	associated gas is dealt with?
	13	Q. In Europe. But I'm talking specifically about this	13	A. You would need to be able to get rid of your associated
	14	region of Slovakia.	14	gas. That's either by exporting it or by burning it.
	15	A. In this region it's underappraised and there's, as far	15	If you couldn't, you would need to reduce your oil
	16	as I'm aware, no longer any production of hydrocarbons.	16	production. Or stop it completely.
	17	But there are there is oil being produced in other	17	MR NEWING: Thank you. No further questions.
	18	parts of Slovakia.	18	MR DRYMER: And just to be clear, I believe in answer to
	19	Q. In other parts of Slovakia. But this region in	19	Mr Pilawa's questions, a couple of them earlier, you
	20	particular, this would be a major development programme	20	clarified that when you say burning, you mean burning to
	21	or project in this region of Slovakia; right?	21	produce energy, not flaring.
	22	A. It would be a series of developments, yes.	22	A. No, not flaring. Not flaring at all.
	23	Q. But one final product that has 99 producing wells and	23	MR DRYMER: I just want to clarify that.
	24	multiple pipelines built; right?	23	A. Sorry, yes. Yes, gas engines, so
	25	A. Over a very large area, yes.	25	MR DRYMER: Gas engines, yes.
	25	A. Over a very large area, yes.	25	WIR DR TWIER. Gas engines, yes.
		Page 49		Page 51
				-
				-
10:08	1	Q. A mix of private land and public land, right?	10:10 1	A it's burned properly, power is generated, and hooked
10:08	1 2	A. Yes, just as it's done elsewhere.	10:10 1 2	in. Sorry about that confusion.
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10:08	2	A. Yes, just as it's done elsewhere.	2	in. Sorry about that confusion.
10:08	2 3	<ul><li>A. Yes, just as it's done elsewhere.</li><li>Q. And I'm talking about the private landowners in this</li></ul>	2 3	in. Sorry about that confusion. MR DRYMER: Noted. Thank you.
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10:11 1	enter in with your large-size drill bits to drill that	10:14 1 THE PRESIDENT: And we thank you very much.
2	first section.	2 DR MOY: Thank you.
3	THE PRESIDENT: And then you bring the drilling rig to the	3 THE PRESIDENT: Is it a little too early to take a break, or
4	site?	4 do you want a relatively short break?
5	A. No, once you well, usually you could use the drill	5 MR PILAWA: I would appreciate a 15-minute break, if
6	rig to hammer in the surface casing, and then you	6 possible.
7	transfer to using a drill bit to drill out what's inside	7 THE PRESIDENT: 15 minutes?
8	of that surface casing, and then you drill down and	8 MR PILAWA: A 15-minute break.
9	you're using ever-decreasing drill bit diameters to	9 MR NEWING: That's fine.
10		10 THE PRESIDENT: We will take a 15-minute break now, and the
11	THE PRESIDENT: What was the position at Smilno? I think	11 next witness is Mr Howard; is that the plan?
12	-	12 MR NEWING: Yes, that's correct.
13		13 THE PRESIDENT: Yes. Good.
13		14 Let's take 15 minutes, then.
15		15 MR PILAWA: Thank you.
15		16 (10.15 am)
	0	
17	A. And paragraph, did you say?	
18	THE PRESIDENT: 47.	18 (10.30 am)
19	A. 47. Hold on, let me just	19 MR NEWING: Just before we start, can I just say Mr Howard
20	Yes, that's right.	20 does have some health issues, so depending on the length
21	THE PRESIDENT: Actually, it's not only Smilno. It's all	21 of the examination he may need to take a short comfort
22	three sites.	22 break. He will let you know if that is necessary, but
23	A. Yes, I don't know exactly which one of those, it just	23 hopefully that's okay.
24	says:	24 THE PRESIDENT: Fine, please let us know if we don't
25	" in the case of the most advanced of these, the	25 remember.
	Page 53	Page 55
	1 age 55	1 age 55
10:13 1	surface conductor had been driven into the ground"	10:30 1 MR COLIN HOWARD (called)
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10:32 1	reference.	10:35 1	prospective resources, i.e. prospects, as they
2	(Slide 3) On the second slide is just a note of my	2	undoubtedly were in 2015. This, of course, the
3	instruction from Signature to calculate a fair market	3	valuation depends on both the volume, or assessment of
4	value of Discovery's share of the Slovakian assets at	4	volume, and the geological chance of success.
5	the date of the award, and I note that my valuation is	5	Therefore, those perception of value is dependent on
6	therefore an ex-post one, and a but-for scenario.	6	what we know about the asset at that time. It's our
7	(Slide 4) As you will have noted from my expert	7	perception of value at a particular point in time when
8	reports, my valuation methodology that I chose was to	8	we make that assessment.
9	use an income-based method, and specifically I used	9	When a new piece of information becomes available,
10	a discounted cash flow model using the volumes and	10	we revise our estimates of volume and GCOS, and
11	geological chance of success presented by Mr Atkinson	11	therefore the valuation changes.
12	and Dr Moy, the Rockflow geological and reservoir	12	And I should just note that this process, data
13	engineering experts.	13	acquisition and interpretation, is not a smooth one: it
14	I used that model to calculate a net present value,	14	goes in fits and starts as new pieces of information
15	NPV, of the prospects within the licence area. I would	15	come along. And of course our valuation would reflect
16	be very happy to expand on the details of my discounted	16	that.
17	cash flow model, but I don't propose to go through it in	17	I'm not going to go through it in any great detail,
18	any detail.	18	but you will have received the demonstrative exhibit,
19	(Slide 5) Just to note, the inputs of those	19	which is a timeline of different events. The second
20	discounted cash flow model are Dr Atkinson's	20	column notes the asset transactions, and the fourth
21	probabilistic volume distributions, and his assessment	21	column notes when data was acquired or interpreted, both
22	of the geological chance of success. I used a Monte	22	of them.
23	Carlo simulation methodology, combined with decision	23	MR DRYMER: A very quick look, sir: this is technical data;
24	trees, to establish a probability distribution of	24	we're not talking financial data?
25	successfully discovered volumes, i.e. volumes that could	25	MR HOWARD: No, technical data. Yes.
	Page 57		Page 59
	1 age 57		1 age 57
10:33 1	reasonably be discovered within the area. And we select	10:37 1	MR DRYMER: Thank you.
10:33 1 2	reasonably be discovered within the area. And we select the P50, or median, as the most likely outcome. I then	10:37 1 2	MR DRYMER: Thank you. MR HOWARD: If I just come to the San Leon overriding
	the P50, or median, as the most likely outcome. I then		MR HOWARD: If I just come to the San Leon overriding
2	-	2	MR HOWARD: If I just come to the San Leon overriding royalty (Slide 10). When San Leon Energy when
2 3	the P50, or median, as the most likely outcome. I then identify a set of prospects that most closely matches	2 3	MR HOWARD: If I just come to the San Leon overriding
2 3 4	the P50, or median, as the most likely outcome. I then identify a set of prospects that most closely matches the P50 volume.	2 3 4	MR HOWARD: If I just come to the San Leon overriding royalty (Slide 10). When San Leon Energy when Discovery acquired the asset from San Leon, San Leon
2 3 4 5	the P50, or median, as the most likely outcome. I then identify a set of prospects that most closely matches the P50 volume. Dr Moy then has presented a development scheme for	2 3 4 5	MR HOWARD: If I just come to the San Leon overriding royalty (Slide 10). When San Leon Energy when Discovery acquired the asset from San Leon, San Leon retained an overriding royalty interest, and that was
2 3 4 5 6	<ul><li>the P50, or median, as the most likely outcome. I then identify a set of prospects that most closely matches the P50 volume.</li><li>Dr Moy then has presented a development scheme for those set of prospects, and of course those and the</li></ul>	2 3 4 5	MR HOWARD: If I just come to the San Leon overriding royalty (Slide 10). When San Leon Energy when Discovery acquired the asset from San Leon, San Leon retained an overriding royalty interest, and that was sold back to Discovery for £120,000 in January 2015.
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10:39 1	CRA claim that this was not in fact the case and	10:42 1	saying comparing with companies in Eastern Europe that
2	that they were not cash-strapped, and present	2	have 2P declared reserves, and bear in mind that Dr Moy
3	information from the San Leon annual accounts to show	3	has stated that he believes that in due course, once
4	that they were in fact able to raise corporate finance	4	discovered, appraised and given appropriate permissions,
5	of several million euros. But a close reading of the	5	these would be developed in the licence area and would
6	annual report showed that in fact that was secured in	6	become 2P reserves in the but-for case.
7	a personal capacity by the CEO, Mr Fanning. So,	7	(Slide 16) This is the graph from the CRA first
8	actually, the company, San Leon, did not appear able to	8	report, and we're graphing the enterprise value in
9	raise finance on their own.	9	millions of dollars on the vertical axis, against the 2P
10	They also appeared to be paying excessive finance	10	reserves, millions of barrels of oil equivalent.
11	costs, and the auditors noted in 2015 there was an item	11	In coming up with a valuation, an ex-ante valuation,
12	of concern on San Leon's status as a going concern, the	12	in actual fact, CRA do not use the data shown on that
13	materiality.	13	graph. They use data from a company called ADX because
14	Taking that together, I don't believe we can	14	they claim that ex-ante, they were the only company that
15	consider the San Leon overriding royalty was a fair	15	did not have 2P resources.
16	market value calculation.	16	However, when we look into it, the ADX prospective
17	(Slide 12) When it comes to the Gulf Shores	17	resources are actually gas condensate fields, offshore
18	investment, this was a deal that would include two wells	18	Tunisia, and Sicily as well, I believe, and they're
19	and an option on two further wells, this implied under	19	entirely incomparable. They don't relate to the type of
20	CRA assessment a valuation of \$10.1 million in March,	20	thing we are looking to find in Slovakia.
21	I believe it was, at the ex-ante date, the Respondent's	21	They also note that ADX had prospective resources of
22	ex-ante date. However, Gulf Shores' due diligence only	22	1,414,000,000 barrels of oil equivalent. I can't
23	appeared to focus around the immediate area of the two	23	actually find that number in the references given in
24	wells that they were committed to. There did not appear	24	CRA, but I believe it's an unrisked volume; in other
25	to be a full evaluation of the rest of the licence area,	25	words, it's a volume that could be there.
	Page 61		Page 63
	6		6
10:41 1	and therefore they would not be in a position to	10:44 1	CRA derive a value on their ex-ante valuation of
2	actually assess that.	2	just \$0.15 million. But that is based on this value of
3	I also note that, again, the full prospectivity of	3	1,414 prospective resources, which is an unrisked
4	the area had not been established by this date. It was	4	number, and therefore this calculation cannot stand; the
5	an evolving process that continued right up to the EGI	5	logic is incorrect.
6	report in 2021, which was a fully integrated study of	6	Conversely, when I look at this graph in front of me
7	all the data available.	7	(Slide 16) I see that, putting aside the data point for
8	(Slide 13) Pretty much the same things apply to the	8	JKX, there is a rough linear trend going from the origin
9	Akard investment, which did actually proceed. Again, it	9	up through those values, showing there's a sort of
10	was funding for three wells in return for 50% of	10	relationship between enterprise value and the amount of
11	Discovery's share of the licence. Although this was	11	reserves. That is not unexpected.
12	several months later, there was still ongoing evaluation	12	From the gradient of that line, we can get what's
13	and the EGI study had not been completed, which	13	called an enterprise value/2P ratio, which I derive at
14	Mr Atkinson based his interpretations and assessments	14	\$4.375 per boe. If I take the assessed volume of
15	on.	15	discovered resources, i.e. the ones we simulate that is
16	Again, because that was not established, I don't	16	the P50 value for Discovery's share,
17	believe it's an assessment of what the licence area	17	8.24 million barrels, that equates to a value of
18	prospectivity is.	18	\$36 million, as of 7 June, and of course that value
19 20	(Slide 15) I now come to valuation based on	19 20	could be adjusted to the award date.
20	comparables ex-ante methodology. I note that my	20	(Slide 19) When they do a similar analysis in their
21	analysis is, of course, a but-for case and is ex-post.	21	second report, they still rely on the data from ADX,
22 23	But it is possible to look at the share prices of	22 23	from the first report, which again I believe is not
23 24	comparable companies at the ex-ante date, and this is		correct because it's an unrisked volume and the
	what CPA have done	24	calculations are not correct
	what CRA have done. Essentially what they're doing, what we're doing is	24 25	calculations are not correct. They also appear to make a fundamental error where
24 25	what CRA have done. Essentially what they're doing, what we're doing is	24 25	calculations are not correct. They also appear to make a fundamental error where

		-	
10:46 1	they apply a reserve adjustment factor, or RAF, to	10:50 1	Q. Okay.
2	volumes which are already risked. In other words, they	2	I don't need the slide show any more.
3	are the discovered volumes. And that's a double dipping	3	So talking about the second expert report that you
4	on the geological chance of success, which they put at	4	issued, there were well, actually, let me back up.
5	5-10%.	5	You mentioned this earlier: the basic, or the analysis
6	If you correct for both the recovery adjustment	6	that you are taking is the but-for analysis; right?
7	factor and the fact that they haven't actually included	7	A. That's right.
8	associated gas from the oilfields, you essentially get	8	Q. Okay. And you are calculating the fair market value on
9	back to the 36 million figure I was talking about.	9	your but-for basis?
10	THE PRESIDENT: I think you've reached the 15 minutes. You	10	A. That's right.
11	have exceeded them by 1 minute. But, of course, you can	11	Q. And that but-for basis is, again, the idea that had
12	get to a conclusion. I'm just saying there's not really	12	Discovery continued operating in Slovakia, it would have
13	time left.	13	developed a large-scale project; is that fair?
14	MR HOWARD: Yes. I will do that.	14	A. The individual oil projects are not large-scale.
15	I'll just note briefly that when they did the	15	They're quite small, in fact. The gas projects, taken
16	ex-post comparables analysis (Slide 21), it's a similar	16	together as an integrated development, I would call
17	picture, but the linear trend is not so apparent, and	17	a mid-scale project, it's not a very large project.
18	they use a weighted average method of deriving the	18	Q. Okay. And that but-for scenario, the but-for,
19	dollar per boe, which I believe is not appropriate.	19	specifically the DCF, it's one unified integrated final
20	I will leave my formal presentation there. Just	20	product; right?
21	note that at the end of the presentation I have the	21	A. The model is a single model, but within the model, each
22	addendum slides of my reasons for using a discounted	22	project, the individual oil projects, and then the gas
23	cash flow for my valuation. Thank you.	23	project, are modelled as separate incremental tranches,
24	THE PRESIDENT: Thank you.	24	which has to be done in order to correctly calculate the
25	Mr Pilawa.	25	tax effect at the corporate taxation level.
	D (5		D (7
	Page 65		Page 67
10.49 1	(10.48 am)	10.51 1	O Okay But they're not concreted by well locations. So
10:48 1	(10.48 am)	10:51 1	Q. Okay. But they're not separated by well locations. So
2	Cross-examination by MR PILAWA	2	there's no
2 3	Cross-examination by MR PILAWA Q. Thank you, Madam President.	2 3	there's no A. They are the three individual oilfields are separate
2 3 4	Cross-examination by MR PILAWA Q. Thank you, Madam President. It's still morning: good morning, Mr Howard.	2 3 4	<ul><li>there's no</li><li>A. They are the three individual oilfields are separate well locations, yes.</li></ul>
2 3 4 5	Cross-examination by MR PILAWA Q. Thank you, Madam President. It's still morning: good morning, Mr Howard. Can you go to slide 19, please. Thank you. Do you	2 3 4 5	<ul><li>there's no</li><li>A. They are the three individual oilfields are separate well locations, yes.</li><li>Q. Right, but if I'm thinking about Smilno, for example,</li></ul>
2 3 4 5 6	Cross-examination by MR PILAWA Q. Thank you, Madam President. It's still morning: good morning, Mr Howard. Can you go to slide 19, please. Thank you. Do you remember this slide?	2 3 4 5 6	<ul><li>there's no</li><li>A. They are the three individual oilfields are separate well locations, yes.</li><li>Q. Right, but if I'm thinking about Smilno, for example, there's no fair market value exclusive to Smilno?</li></ul>
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· · · · ·			
10:54 1	A. Okay. (Pause)	10:58 1	responding to CRA's report, explaining that:
2	Q. There are a few dates when we get the spreadsheet up	2	"Certain industry codes do not recommend using
3	that I'm going to want to talk about.	3	an income approach for prospective resources."
4	A. Sure.	4	Are you comfortable with that characterisation of
5	Q. But before we get into that, you understand that	5	this part of your report?
6	Discovery Global purchased AOG in March 2014; right?	6	A. Yes.
7	A. Yes.	7	Q. And you state in paragraph 72:
8	Q. And the previous owner of AOG was San Leon; right?	8	"In this context, I note that I am not preparing
9	A. Yes.	9	a valuation for 'public reporting', but for a legal
10	Q. Have you analysed the data that Discovery Global	10	arbitration, and neither is the Claimant."
11	inherited from San Leon?	11	Can you tell me what you meant by that statement?
12	A. Not personally. Do you mean the geological data, or	12	A. Yes, this is in the context where CRA quote the VALMIN
13	which data?	13	code for reporting information to the Australian $S(x) = \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{i=1}^$
14	Q. Yes, sure. I understand that Discovery Global, when it	14	Stock Exchange, for purposes of stock listing or
15	purchased AOG, inherited, for example if we can go up	15	announcements to press releases, et cetera. It's in that context.
16	on that spreadsheet? Thank you.	16	
17	I understand that when Discovery Global purchased	17	Q. Well, would your report have been different if you were
18	AOG, for example, it inherited this seismic data that	18	preparing it for public reporting purposes?
19 20	AOG or the previous owner had taken from 2008 to 2011? A. That's correct.	19 20	A. If I was preparing a valuation for public reporting, you
20 21	Q. So I'm talking about and, for what it's worth,	20 21	would need to follow the rules of that exchange. But it would be seen in the context of what it was. That is
21 22	I'm also talking about July and August 2012, and then	21	not necessarily a fair market value. It's not doing
22	the March 2013 entries right here, where the gravity	22	a fair market value calculation.
23 24	surveys and the interpretation reports I'm talking	23	Q. So one of the well, we note here I'm sorry,
24	about that type of data?	24	I should say you note specifically, or you make
20		25	I should suf you note specifically, or you make
	Page 69		Page 71
10:56 1	A Yes	11:00 1	reference to the Australian Stock Exchange here. You
10:56 1	<ul><li>A. Yes.</li><li>O. So I understand that this was part of an overall package</li></ul>	11:00 1	reference to the Australian Stock Exchange here. You rely on a guidance note for listing rules, and you state
2	Q. So I understand that this was part of an overall package	11:00 1 2 3	rely on a guidance note for listing rules, and you state
	Q. So I understand that this was part of an overall package of data that Discovery Global purchased. Or, I should	2	rely on a guidance note for listing rules, and you state here that that guidance note is "underpinned by the
2 3	Q. So I understand that this was part of an overall package	2 3	rely on a guidance note for listing rules, and you state
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Page 70

11:02 1 2 3 4	<ul><li>A. Financial forecasting, but that is not the same as valuation.</li><li>Q. I accept that. I'm just trying to confirm that specifically the Australian Stock Exchange prohibits</li></ul>	11:05 1 2 3 4	<ul><li>would come up with that figure. But that is not my valuation.</li><li>Q. Okay. I understand it's not your valuation. But that \$36 million derives from your discounted cash flow</li></ul>
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	<ul> <li>using prospective resources for</li> <li>A. For</li> <li>Q forecasting.</li> <li>A mostly mining projects. The VALMIN code is essentially a code for mining projects. They have a sentence in there where they say this can be used for oil and gas projects. In my professional experience, I've never seen that actually happen.</li> <li>Q. I think in the paragraph before you were talking about how the guidance note was saying that this was underpinned by the SPE-PRMS and that's about hydrocarbons, right?</li> <li>A. That's correct, yes. So if they were reporting on oil and gas, they would use PRMS, yes.</li> <li>Q. Thank you. So going back to 375 here, in paragraph 375, this \$36 million valuation is based on the reserves in your DCE.</li> </ul>	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	<ul> <li>analysis; that's correct, right?</li> <li>A. No, it doesn't. It derives from the discovered volumes, which actually come from Dr Moy's and Mr Atkinson's work, and the Monte Carlo simulation, which I have undertaken. But that hasn't got anything to do with financial forecasting or discounting. That is purely in terms of volumes. And I then just multiplied by the 4.375, which is not derived from my discounted cash flow model. That is the gradient on the graph presented by CRA.</li> <li>Q. Okay. So paragraph 375 says: <ul> <li>"Using the \$4.375/boe value"</li> <li>So you're using this, and it values the reserves in your DCF I understand this isn't your valuation, but it values the reserves in your DCF model at 36 million. Are you comfortable with that?</li> </ul> </li> </ul>
22 23 24 25	<ul><li>DCF model; right?</li><li>A. In the but-for case.</li><li>Q. Yes, and the reserves in the DCF model, in the but-for case. And those reserves are the ones in paragraph 374</li><li>Page 73</li></ul>	22 23 24 25	<ul><li>they're not derived from my DCF model.</li><li>Q. These are the reserves that Dr Moy I'm sorry, I should say this: Mr Atkinson and Dr Moy have produced two expert reports that then produce so-called reserves?</li><li>Page 75</li></ul>
11:03 1 2	immediately preceding, right?		
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	<ul> <li>A. Yes.</li> <li>Q. And this \$36 million calculation is calculated on the ex-ante date; right?</li> <li>A. It was calculated at that date, yes.</li> <li>Q. Okay.</li> <li>A. But the but-for case is, of course, ex-post.</li> <li>Q. I understand that, but this calculation is specifically as [at] the ex-ante date; right? That's what paragraph 375 says.</li> <li>A. Just to be clear what that means, the \$4.375 per boe is derived from the gradient of that graph shown in the CRA report, and those enterprise values were from the companies at their ex-ante date. Which is different from the ex-ante data that the Claimant uses, yes.</li> <li>Q. But I understand this to mean you are adopting the ex-ante date that Charles River Associates has been using, and you are providing your valuation as at that date, which is \$36 million; right?</li> <li>A. No, that's not correct. My valuation is based on my discounted cash flow model. I have merely said that if</li> </ul>	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	<ul> <li>A. Part of my work was to go from the unrisked volumes to the risked volumes, which are the discovered resources. And that part of my work is undertaken within the same Monte Carlo spreadsheet that Dr Atkinson uses. But that part of the work is my responsibility.</li> <li>You will note in that spreadsheet there are initials on the top of every column, just to make exactly clear who did what bit of analysis. It just, from a technical point of view, for data integrity, it is important to keep all the information in the same Monte Carlo spreadsheet.</li> <li>So part of my work was to work out, from the unrisked volumes that could be in the prospects, to do an exploration simulation exercise to come up with a P50 volume of what is the most likely discoverable volumes. And we then chose a set of prospects that almost exactly matches that P50 volume of discovered resources. And Dr Moy built a development schedule for that.</li> <li>Q. Yes. I understand that.</li> <li>This paragraph in particular though, I understand it's not your valuation, that \$36 million, that</li> </ul>

11:08 1	A are the same as I use in my DCF model, yes.	11:12 1	using the FTSE oil and gas index or another index.
2	Q. Okay. At the Respondent's ex-ante date; right?	2	THE PRESIDENT: So you would take the ex-ante reserves value
3	A. Yes.	3	and then you move it forward to the ex-post date, and
4	Q. And at the ex-ante date, Discovery Global only had	4	you adjust with the FTSE factor, or whatever
5	prospective resources; right?	5	A. 350 index. That is what you can do. It is not the
6	A. Yes.	6	method I've chosen for my valuation. I'm saying if you
7	Q. Okay.	7	did do that, using the graph that CRA have produced, you
	A. But of course, I should note it's a but-for case.	8	would come up with a value of 36 million at that date,
8			-
9	Q. I know.	9	which can then be adjusted.
10	A. Yes.	10	THE PRESIDENT: Thank you.
11	THE PRESIDENT: I'm not sure what you are saying it's the	11	A. Yes.
12	but-for, but the but-for in your analysis comes later	12	THE PRESIDENT: Please carry on. Apologies for the
13	than the Respondent's ex-ante date. So there seems to	13	interruption.
14	be some disconnect between the dates; no?	14	MR PILAWA: No. No problem at all.
15	A. Let me try to explain. It's difficult without all the	15	So coming to the San Leon overriding royalty that
16	information directly in front of us.	16	you discussed, I believe and correct me if I am
17	THE PRESIDENT: But conceptually they mean	17	wrong in the presentation that you gave, you
18	A. CRA have presented data from so-called comparable	18	discussed how one of the issues with that royalty, or
19	companies and their share prices indicate their asset	19	any valuation derived from that, is that the data
20	values, corrected for debt and cash balances, and of	20	landscape had changed?
21	course those can be quoted at any date that we wish.	21	A. That was one of the points, yes.
22	They have quoted the data at the ex-ante date that they	22	Q. One of the points. And you haven't quantified what that
23	chose. We have then come up with a valuation. If the	23	change in data represents; right?
24	oil price changes over time, you would expect the asset	24	A. No, one would in order to do that, one would
25	values, hence the share values, to go up and down, and	25	Q. No, that's this is just to move to the second part of
	Page 77		Page 79
11:10 1	those can be adjusted for in a very approximate way by	11:13 1	the sale, the fair market value aspect.
2	applying something CRA use the FTSE 350 Oil & Gas	11:13 1 2	So I understand that you rely on Mr Lewis' testimony
	applying something CRA use the FTSE 350 Oil & Gas index as a multiplier, which can be done, but it's a bit		So I understand that you rely on Mr Lewis' testimony that the sale for the San Leon royalty value was not
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2 3	applying something CRA use the FTSE 350 Oil & Gas index as a multiplier, which can be done, but it's a bit	2 3	So I understand that you rely on Mr Lewis' testimony that the sale for the San Leon royalty value was not fair market value, and A. It's one of the points that I rely on.
2 3 4	<ul><li>applying something CRA use the FTSE 350 Oil &amp; Gas index as a multiplier, which can be done, but it's a bit of a blunt instrument.</li><li>So all I have done is take CRA's chart and say: at that date, if you have 2P reserves, this is what their</li></ul>	2 3 4	So I understand that you rely on Mr Lewis' testimony that the sale for the San Leon royalty value was not fair market value, and A. It's one of the points that I rely on. Q. It's one of the points that you rely on.
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2 3 4 5 6 7 8	applying something CRA use the FTSE 350 Oil & Gas index as a multiplier, which can be done, but it's a bit of a blunt instrument. So all I have done is take CRA's chart and say: at that date, if you have 2P reserves, this is what their value would be. Not just Discovery THE PRESIDENT: So you assume you would have	2 3 4 5 6 7 8	<ul> <li>So I understand that you rely on Mr Lewis' testimony that the sale for the San Leon royalty value was not fair market value, and</li> <li>A. It's one of the points that I rely on.</li> <li>Q. It's one of the points that you rely on.</li> <li>And one of the issues that you have with that royalty well, let me say this: apart from relying</li> </ul>
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## Day 5 -- Hearing on the Merits

T

11:15 1	Q. Yes.	11:19 1 doing for the you know, to improve the quality of the
2	A. I don't know the conditions of that \$30 million loan	2 data. They cannot predict what the results of the
3	facility.	3 reprocessing might be. Sometimes you reprocess data and
4	Q. But you are aware that it exists, did I understand that	4 it confirms that perhaps a trap is not there. That does
5	right?	5 not appear to be the case, because if that was the case,
6	A. I wasn't aware specifically of that one.	6 Discovery would not want to proceed with putting money
7	Q. Okay. Did you want to see the document?	7 into an asset that wasn't worth pursuing. They clearly
8	A. Yes. By all means.	8 pursued with the asset, because they felt the
9	Q. Okay. Can we pull up C-259. Page 32 of the PDF. And	9 reprocessing improved their valuation of the asset.
10	if you can zoom in to that middle column right at the	10 MR PILAWA: That's fine.
11	top of the page. No, other to the other side. Right in	11 I have no further questions, Madam President.
12	the middle:	12 THE PRESIDENT: Thank you. Mr Newing?
13	"In the event, that the Placing is not approved"	13 MR NEWING: I have no questions, Madam President.
14	Do you see that at the top:	14 THE PRESIDENT: Do my colleagues have questions?
15	" the Group has an additional loan facility of	15 (11.20 am)
16	£30 million available"	16 Questions from THE TRIBUNAL
17	A. Yes. Which report is this one? What date is this? Is	17 THE PRESIDENT: We were discussing the 36 million valuation
18	this the 2014	18 through comparable companies, and you said you get there
19	Q. 2014.	19 by using the reserves that you have also used for your
20	A. 2014.	20 DCF, and then is that not?
20	Q. Yes.	21 A. Yes, the work that my colleagues and myself have done
21	The question that I have though is, if San Leon, the	has come up with a volume that we think is you know,
22	previous owner of the royalty, and the previous owner of	<ul><li>if we proceeded, or if Discovery proceeded with the</li></ul>
23	all of the data underlying the asset, if they were	24 exploration programme, we think that is the P50, the
25	sitting on an asset that would pay them passive income	<ul> <li>25 most likely volume that would result from that drilling</li> </ul>
25	sitting on an asset that would pay them passive meome	25 most nery volume that would result from that drining
	Page 81	Page 83
11.17 1	of tans of millions of dollars, wouldn't one of the last	11.21 1 programme
11:17 1	of tens of millions of dollars, wouldn't one of the last things they would want to get rid of he that royalty?	11:21 1 programme.
2	things they would want to get rid of be that royalty?	2 THE PRESIDENT: That would be produced.
2 3	things they would want to get rid of be that royalty? A. I don't believe at the time they, San Leon, thought it	<ul><li>2 THE PRESIDENT: That would be produced.</li><li>3 A. Yes.</li></ul>
2 3 4	<ul><li>things they would want to get rid of be that royalty?</li><li>A. I don't believe at the time they, San Leon, thought it was worth that million. I think there was a gap in what</li></ul>	<ol> <li>THE PRESIDENT: That would be produced.</li> <li>A. Yes.</li> <li>THE PRESIDENT: Yes.</li> </ol>
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11:22 1	seen one of them in my presentation.	11:35 1 DR LONGMAN: I am.
2	And the data points move around a bit. But the	2 THE PRESIDENT: From SLR Consulting?
3	overall picture is similar. They move around because	3 DR LONGMAN: That's correct.
4	the oil price is going up and down, and therefore asset	4 THE PRESIDENT: You have submitted two reports, the first
5	values will, of course, move.	5 one 31 March 2023, and the second one 14 December 2023?
6	And bear in mind that these are comparable	6 DR LONGMAN: Yes.
7	companies. The fields and assets they have are not	7 THE PRESIDENT: You are heard as an expert witness and you
8	necessarily directly comparable. They are in Eastern	8 know that I will now ask you to read the expert
9	Europe, and they are 2P reserves, partly. But the asset	9 declaration into the record.
10	values on those charts, the enterprise value is, of	10 DR LONGMAN: I solemnly declare upon my honour and
11	course, a mixture of whatever whether they have	11 conscience that my statement will be in accordance with
12	reserves, contingent resources, and prospective	12 my sincere belief.
13	resources. The share price just reflects investors'	13 THE PRESIDENT: Thank you. Now we have received your
14	perception of the basket of assets that they have.	14 presentation, and you have 15 minutes to
15	THE PRESIDENT: Yes. Do I understand this correctly: that	15 DR LONGMAN: I think we're just waiting for it to come up.
16	if we find that your reserve quantities are not	16 MR DRYMER: You have been patient the last couple of days;
17	sufficiently certain, for legal reasons not for	17 you will have to be patient a few minutes longer!
18	technical reasons, then we cannot use this market-based	18 (Pause)
19	valuation because it is dependent on these quantities of	19 THE PRESIDENT: Is there a difficulty?
20	reserves? It is built on it; is that right? Or do	20 (Pause)
21	I misunderstand something?	21 Good.
22	A. All the numbers we have presented, both in my valuation	22 So now you have 15 minutes.
23	and in the CRA, depend fundamentally on the quantity of	23 (11.39 am)
24	reserves that might be found. I think that's, yes,	24 Presentation by DR LONGMAN
25	common sense.	25 DR LONGMAN: So yes, good morning, Madam President, members
	Page 85	Page 87
11:24 1	In terms of not sufficiently certain, obviously	11:39 1 of the Tribunal.
11:24 1 2	I can't speak about the legal definition of that.	<ul><li>11:39 1 of the Tribunal.</li><li>2 I think as we've established, I'm Chris Longman.</li></ul>
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11.40		11.44 1	
11:40 1	Magura nappe and a little bit of the Dukla nappe.	11:44 1	licence themselves, the database that they have, again,
2	(Slide 4) This map shows that in a little bit more	2	the outline of the licence is in pinky-purple, so the
3	detail. The Claimant's licences are in the pink outline	3	primary information that we've got is a series of
4	there, and you can see that the Magura nappe, in the	4	seismic data and historical wells. There are some
5	sort of dirty grey colour, the Dukla nappe, the darker	5	34 wells, but as you can see from the map, they are
6	grey, are the ones that cover the Claimant's licences.	6	clustered in three main areas. The last well was
7	And then the Silesian nappe, further to the north-east,	7	drilled in 1998, so there has been no recent drilling,
8	doesn't actually overlie the or underlie the	8	and the seismic is 770 kilometres or so of 2D data
9	Claimant's licence area.	9	dating from the early 2000s.
10	So looking at that in terms of trends, the	10	There's also additional data, gravity, magnetic,
11	Claimant's licences are on trend with the Magura and	11	surface geology, et cetera, and, as has been referenced
12	Dukla nappes, but I don't believe they are on trend with	12	before, magneto-telluric data that was acquired by the
13	the Silesian nappe.	13	Claimant but hasn't been used in Mr Atkinson's
14	The key to that is that there's a lot of analogue	14	evaluation.
15	data from Poland, less so from Slovakia, where there has	15	It's important to note, I think, that the Claimant
16	been an exploration history in all these nappes, and	16	did not acquire any seismic data or drill any new wells
17	therefore, in my opinion, the analogues should focus on	17	during the period it held the licence.
18	the Magura and Dukla nappes, rather than the Silesian	18	(Slide 8) Mr Atkinson has created a series of 40
19	nappe. Although, taking into account the Silesian nappe	19	leads, and we had a debate yesterday about leads versus
20	is important and, as you will see later, I have done	20	prospects. My view is that they are leads because they
21	that.	21	are not well-enough defined under PRMS to qualify as
22	(Slide 5) You've seen these diagrams as well before	22	prospects.
23	from Mr Atkinson. It's really just trying to reinforce	23	Of those leads 18 are oil, 22 are gas, and the map
24	that when we're looking at analogue field information,	24	here in the top shows Mr Atkinson's interpretation
25	the most relevant ones I think are those that are in the	25	underlying red circles, which are actually taken from
	<b>D</b> 00		<b>D</b> 01
	Page 89		Page 91
11:42 1	same nappes as are prospective in the Claimant's licence	11:46 1	the Claimant's 2017 investor presentation where they
11:42 1 2	same nappes as are prospective in the Claimant's licence area.	11:46 1 2	the Claimant's 2017 investor presentation where they identified 11 prospects. So it's just a comparison of
			· · ·
2	area.	2	identified 11 prospects. So it's just a comparison of
2 3	area. Mr Atkinson yesterday provided a diagram in which he	2 3	identified 11 prospects. So it's just a comparison of the 11 that were referenced in 2017 in the investor
2 3 4	area. Mr Atkinson yesterday provided a diagram in which he had noted that the reservoir and porosity parameters in	2 3 4	identified 11 prospects. So it's just a comparison of the 11 that were referenced in 2017 in the investor presentation with the 40 that Mr Atkinson has
2 3 4 5	area. Mr Atkinson yesterday provided a diagram in which he had noted that the reservoir and porosity parameters in the Silesian nappe were better than in the Magura and	2 3 4 5	identified 11 prospects. So it's just a comparison of the 11 that were referenced in 2017 in the investor presentation with the 40 that Mr Atkinson has identified.
2 3 4 5 6	area. Mr Atkinson yesterday provided a diagram in which he had noted that the reservoir and porosity parameters in the Silesian nappe were better than in the Magura and Dukla nappes. Again, I think that's important just as	2 3 4 5 6	identified 11 prospects. So it's just a comparison of the 11 that were referenced in 2017 in the investor presentation with the 40 that Mr Atkinson has identified. And you can see there's some similarity and some
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11:47 1	doubled his area, so as he demonstrated yesterday, 50%	11:51 1	(Slide 12) The decision-tree analysis that was
2	of the time the area is going to be sampled from an area	2	undertaken uses the resource volumes, which I think are
3	that was bigger than actually mapped.	3	overestimated, and also the GCOS figures, which, again,
4	You can also see from this that one of the other	4	in my opinion, are overestimated. And that was run
5	problems is, if you double the areas, then they start	5	through an analysis to come up with a statistical output
6	overlying each other, the prospects.	6	of the most likely, the P50 outcome.
7	And I have to note that these leads are identified	° 7	Each time that gets run, you end up with a different
8	on what is very poor seismic data quality.	8	output, and you can see there it just compares the 2022
9	(Slide 10) Looking at some of the oil leads, and	9	figures with the 2023. So the first time there were
10	most of this sort of benchmarking analysis is available	10	nine prospects, the second time there were eight
10	for oil rather than gas, because there's very little	11	prospects, and we've got three oil prospects and five
12	analogue gas data.	12	gas prospects in the latest version. Some are
12	So this is just a plot of looking at the cumulative	12	consistent between the two years; others are not.
13	production from nappes in Poland relative to a fixed	14	(Slide 13) A little bit more just looking at the
15	area, so 1,000 kilometres squared. The reason for doing	15	individual well production. Again, this is trying to
16	this was to try and gauge what some of the history is,	16	benchmark the sort of sense-check what's being done.
10	and what the oil leads identified by Rockflow are	17	Again this is oil, because that's where we've got some
18	indicating, and you can see there that under our	18	historic comparison.
10	analysis we have a significantly higher density of	19	Using our analysis we've got somewhere around about
20	potential resource in Rockflow's analysis than has been	20	20 million sorry, 20,000 barrels per well from a lot
21	evident historically. It's even bigger than the	21	of the historical data, and in the Claimant's analysis
22	Silesian nappe, which is the best of the nappes, but is	22	they are recovering round about 400,000 barrels per each
23	significantly bigger than the Dukla and Magura nappes,	23	well in their development scenario, which is
24	which are the two relevant nappes for the leads	24	a significant increase, whichever way you look at it,
25	identified. They are all identified within the Magura	25	and has a double effect, because if you can produce more
	Page 93		Page 95
11:49 1	and Dukla nappes.	11:52 1	oil from a well, then you need less wells to develop and
11:49 1 2	and Dukla nappes. (Slide 11) The other element to do with the leads is	11:52 1 2	oil from a well, then you need less wells to develop and therefore the cost of any potential development is
		11:52 1 2 3	oil from a well, then you need less wells to develop and therefore the cost of any potential development is reduced.
2	(Slide 11) The other element to do with the leads is	2	therefore the cost of any potential development is
2 3	(Slide 11) The other element to do with the leads is not only the size of them, but also the geological	2 3	therefore the cost of any potential development is reduced.
2 3 4	(Slide 11) The other element to do with the leads is not only the size of them, but also the geological chance of success. Again this was referenced yesterday.	2 3 4	therefore the cost of any potential development is reduced. (Slide 14) There's also an issue over the drilling.
2 3 4 5	(Slide 11) The other element to do with the leads is not only the size of them, but also the geological chance of success. Again this was referenced yesterday. Mr Atkinson and myself used the same methodology to	2 3 4 5	<ul><li>therefore the cost of any potential development is reduced.</li><li>(Slide 14) There's also an issue over the drilling.</li><li>Mr Moy put his chart up earlier on today, and as is</li></ul>
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2 3 4 5 6 7	(Slide 11) The other element to do with the leads is not only the size of them, but also the geological chance of success. Again this was referenced yesterday. Mr Atkinson and myself used the same methodology to calculate the chance of success, but we have a different view of the input data.	2 3 4 5 6 7	<ul><li>therefore the cost of any potential development is reduced.</li><li>(Slide 14) There's also an issue over the drilling.</li><li>Mr Moy put his chart up earlier on today, and as is referenced, the concept is to drill 40 exploration wells and, in the event of the success, modelled</li></ul>
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11:54 1	(Slide 15) Another thing to look at is the oil leads	11:57 1	A. It was. Yes.
11.54 1	in relation to the historical information. You've seen	11.57 1	Q. And you have had no reason to challenge the work that
3	the chart at the top. That is the three leads that were	3	they carried out in that study, have you?
4	assessed to go into the DCF calculation from 2023 in	4	A. I haven't challenged that work, no. That's the primary
4	yellow, plotted against historical field size for	4 5	piece of work underlying what was done.
6	Poland, or for the Carpathian the Polish Carpathian	6	Q. And that study concluded that there were at least five
7	fields. And you can see even on that analysis two of	7	potential traps in the underlying Dukla nappe, didn't it?
8	those leads would be in the top eight all-time.	8	
9	I'm nearly at the end.	9	A. I think it identified five features for which it
10	THE PRESIDENT: You're over time, but I understand that you	10	calculated volumes, yes.
11	soon are done.	11	Q. But all of those were only in the underlying Dukla
12	DR LONGMAN: And in the bottom chart, that's just plotting	12	nappe?
13	all 18 of the Rockflow oil leads against the historical	13	A. I don't remember, but I believe so.
14	ones, and you can see how dramatic the difference is.	14	Q. Okay. To refresh your memory, let's take you to
15	(Slide 16) So in summary, I don't think the licences	15	document AA-002. And page 75 of the PDF, please. And
16	are on trend, and there's little historical analogue for	16	you see there section 9:
17	what's been done.	17	"Whole volume estimates of potential traps in the
18	THE PRESIDENT: Thank you.	18	Smilno antiformal stack".
19	Mr Newing.	19	Which I understand is basically the Dukla nappe, the
20	(11.56 am)	20	underlying Dukla nappe, the parts underneath the Magura
21	Cross-examination by MR NEWING	21	nappe or the part that's poking out in the tectonic
22	Q. Good morning, just about, Dr Longman. My name is Neil	22	window?
23	Newing and I will be asking you some questions on behalf	23	A. Yes, that's correct.
24	of the Claimant.	24	Q. And this study did not seek to assess whether there were
25	I would ask you, please, to turn to your first	25	any traps in the rest of the Magura nappe, did it?
	D 07		<b>D</b> 00
	Page 97		Page 99
11:56 1	expert report. We're going to look at page 5 of the	11:59 1	A. I don't recall whether it sought to do that or not.
2	expert report. We're going to look at page 5 of the PDF, and I think it's internal page 1 if you are looking	2	<ul><li>A. I don't recall whether it sought to do that or not.</li><li>Q. You've referred in your first expert report to the fact</li></ul>
2 3	expert report. We're going to look at page 5 of the PDF, and I think it's internal page 1 if you are looking in the hard copy. And I am looking at paragraph 2.	2 3	<ul><li>A. I don't recall whether it sought to do that or not.</li><li>Q. You've referred in your first expert report to the fact that EGI only identified five potential structures, and</li></ul>
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12:01 1 "I defined 8 gas prospects in the Smilno area in the	12:03 1 Do you see that?
2 Dukla Nappe, based on the Base Magura structure map	2 A. I do.
<ul> <li>Buka Nappe, based on the base Wagua subctile map</li> <li>except for one mapped at an intra-Dukla Nappe surface</li> </ul>	<ul><li>3 Q. So you accept, again, that being notionally drill-ready</li></ul>
4 (the 'base Antiformal Stack' surface)."	4 is enough to be considered a prospect?
5 Do you see that?	5 A. I do.
	<ul><li>6 Q. So in this very same paragraph you are actually talking</li></ul>
	<ul> <li>about the two wells that the Claimant had intended to</li> <li>or in fact three wells that the Claimant had intended to</li> </ul>
<ul> <li>8 EGI's five identified structures with the eight that</li> <li>9 Mr Atkinson has identified, not the total 40, wouldn't</li> </ul>	
	10 you? 11 A. I am.
11 A. I don't know for certain without going back to the whole	
12 of the description around the EGI report itself.	12 Q. And so your position in your first expert report is that
13 Q. Since the date of your first expert report you've	13 you agreed that, at the very least, the Smilno and
14 conducted an assessment of five of the Claimant's eight	14 Krivá Ol'ka sites were notionally drill-ready and so
15 prospects I know there is a difference between you as	15 could be considered as prospects?
16 to whether they are prospects or leads, but what the	16 A. Yes.
17 Claimant has said are prospects that are part of	17 Q. And were you aware that both the Smilno and Krivá Oľka
18 their P50 case, haven't you?	18 sites had AFEs?
19 A. I have.	19 A. Yes, that's why I considered them as prospects
20 Q. And in relation to the other three of those prospects,	20 potentially.
21 your position is that you do not recognise them as valid	21 Q. Were you aware that two of the three prospects that you
22 targets; right?	decided in your second report were not even leads, let
23 A. Yes. That's correct. We didn't see that they were	alone prospects, were in fact the Smilno and Krivá Ol'ka
24 identified sufficiently to be classified as leads.	24 sites?
25 Q. And so your position is they're not even leads, but	25 A. I am aware of that, yes.
Page 101	Page 103
·	-
12:02 1 certainly not prospects; that's correct?	12:04 1 Q. And so despite accepting, as you have just done, that
<ul><li>12:02 1 certainly not prospects; that's correct?</li><li>2 A. That's correct.</li></ul>	<ul> <li>12:04 1 Q. And so despite accepting, as you have just done, that</li> <li>2 both the Smilno and Krivá Ol'ka sites were able to be</li> </ul>
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	12:00 1 (ch 219 (Dere )
12:06 1 considered them to be and they had AFEs on them?	12:09 1 tab 318. (Pause)
2 A. No, that can't be the case, because at the time that	2 Page 59 on the PDF. And if we look at paragraph
3 I was doing the analysis, the Claimant didn't hold the	3 C.3, at the very beginning it's stated:
4 licences. So I think there's a difference between, if	4 "SLR note that the majority of Mr Atkinson's
5 you go back in time, that was their view, but	5 'Prospects' are defined based on two-way time
6 I'm looking at it now on the basis of the information	6 grids - either his own or those of EGI. Structures
7 that's available to me. And, as I say, there's a very	7 which are 'drill ready' and form true Prospects under
8 different opinion between my assessment and what the	8 [PRMS] would never be presented in TWT. TWT maps are a
9 Claimant's assessment was in the past.	9 step in the process of generating depth maps and are
10 Q. But the information you have looked at is the same	10 often used to illustrate exploration concepts"
11 information that the Claimant had?	11 Do you see that?
12 A. As far as I'm aware it's the same. I mean, we had the	12 A. I do.
13 dataset that was provided by the Claimant.	13 Q. I notice it says here "SLR note", rather than "I note",
14 Q. The eight of the Claimant's prospects which you have	14 which you use in the next paragraph. Does that mean
15 looked at, although three of them not assessed, as	that you did not personally conduct those assessments?
16 I say, form part of the Claimant's P50 case; right?	16 A. I worked with one of my colleagues, who is referenced in
17 A. The P50 decision tree case, yes.	17 the acknowledgments, in looking at the seismic projects
18 Q. And so all that you have actually assessed are five of	18 that we had. But the interpretation of the Kingdom
19 the prospects that the Claimant considers would be	19 dataset is not my area of speciality.
20 within that P50 case?	20 Q. Okay. So you go on to say that these are a step in the
21 A. We looked at five in detail. Looked in detail at the	21 process of generating depth maps, as you say?
eight, but decided that three were not valid, or were	22 A. Yes.
23 insufficiently well-defined to qualify as leads, and	23 Q. And so you would accept that the depth maps would be
reviewed the remaining 32. But only in a superficial	helpful for you if you were actually trying to assess
25 way.	25 this further?
Page 105	Page 107
I age 105	1 age 107
12:07 1 Q. And so in discounting the three that you do not consider	12:11 1 A. And there are depth maps and time maps.
2 to be prospects, all you are in fact saying is that	<ul><li>12:11 1 A. And there are depth maps and time maps.</li><li>2 Q. So you do accept that depth maps have been provided by</li></ul>
<ul><li>to be prospects, all you are in fact saying is that</li><li>those three prospects should not have formed part of the</li></ul>	<ul><li>2 Q. So you do accept that depth maps have been provided by</li><li>3 Mr Atkinson in his Kingdom project?</li></ul>
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		1	
12.12 1	is not applicable?	12.16 1	presentations that these represent all of the leads that
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2	A. Well, the it "not applicable". It is applicable	2	would be in the licence areas, do they?
3	to the extent that what I'm referencing here is two-way	3	A. As far as I'm aware, they don't.
4	time grids. Yes, there are some depth grids. Yes,	4	Q. And wasn't the point of such presentations to identify
5	there were some depth grids for the five that we looked	5	the initial areas that they wished to drill?
6	at. Yes.	6	A. I think the focus was on the initial area. But if you
7	But whether it's a lead or a prospect is not	7	were putting together an investor presentation, then
8	absolutely due to whether there's depth or time. It's	8	I would have thought it would be only sensible to flag
9	an assessment as to what the validity of that	9	that you have whatever number of additional prospects or
10	interpretation is, how robust it looks.	10	leads that you are assessing at the time.
11	Q. As we've mentioned, Mr Atkinson has identified what he	11	Q. But would you agree there would be no point in spending
12	calls 40 prospects; right?	12	money to identify a further 20 or 30 prospects until you
13	A. Correct.	13	had someone on board, if that were the point of these
14	Q. If we can go back to your first expert report, please,	14	presentations?
15	at page 22 of the PDF, and 18 of your hard copy, at	15	A. No, I wouldn't. I wouldn't agree with that.
16	paragraph 61 at the bottom. You are seeking here to	15	Q. So in your view, Discovery should have spent a lot of
10	draw a comparison between the number of prospects	10	time and money identifying every prospect or lead that
18	identified by Mr Atkinson and those which were referred	18	may exist in an area before going to any investor?
19	to in contemporaneous documents prepared by AOG, and if	19	A. No, not necessarily. But I think that they should have
20	we go over the page we see the table where you do that;	20	undertaken enough of an evaluation to be comfortable in
21	correct?	21	their own mind where to focus their efforts.
22	A. Yes.	22	Q. But do you accept that this was not an intention on
23	Q. We've already discussed EGI, so I'm not going to look at	23	their part to show everything that might exist in the
24	that for the moment. But this refers to three different	24	area?
25	documents, or sets of documents, from AOG in 2014, 2015,	25	A. Sorry, that this was?
	Page 109		Page 111
	8		
12:14 1	and 2017 that you have used to compare against the	12:17 1	Q. That these presentations were not intended to show
12:14 1	and 2017 that you have used to compare against the 40 prospects identified by Mr Atkinson; correct?	12:17 1	Q. That these presentations were not intended to show everything that they considered might exist in the area.
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32 (Pages 109 to 112)

12:19	1 Q. The first report that you've still got open.	12:22 1	What you're trying to achieve is a viable structure
12.17	2 A. Sorry, 12, did you say?	2	with reservoir in that is large enough to be
	3 Q. 12 in your hard copy, yes, I think. And 16 in the PDF.	3	a commercial discovery these days.
	4 A. Yes.	4	Q. But with the benefit of the data that has now been
	5 Q. And here you set out a table that shows the exploration	5	acquired, as you say, would that not improve the chances
	6 history in the licence areas over the 20th century,	6	of being able to find where those would be?
	7 essentially?	7	A. It should improve the chances, but the quality of the
	8 A. Yes.	8	data is still it still makes it difficult to give you
	9 Q. And many of these would have been drilled with old	9	confidence in what is in the subsurface.
1	0 technology or techniques, and with poor, if any, data;	10	Q. I'd like to look now at some of the benchmarking
1	1 would you agree?	11	exercises that you have carried out, and you've
1	2 A. The vast majority, yes.	12	mentioned some of these in your presentation today. But
1	3 Q. And yet the majority of these wells reported	13	we're going to look at your second report, please, at
1	4 hydrocarbons existing, didn't they?	14	page 10 in the hard copy, and page 17 on the PDF.
1	5 A. Well, there were a lot of hydrocarbons reported, but	15	This is a map where you have indicated in different
1	6 that's partly because this is an area where everything	16	colours the different nappes in the Polish Carpathians;
1	7 is the whole petroleum system is one where you have	17	right?
1	8 hydrocarbons, but the difference is, have you got	18	A. Correct.
1	9 hydrocarbons trapped in a viable feature and a potential	19	Q. And then you use this on the next page I'm going to
2	field. And most of these are what appeared to be shows,	20	come back to the map to compare the resource density.
2	apart from a couple of the historic fields that were	21	Just to confirm, this is oil only at this point.
2	2 produced.	22	A. Sorry?
2	23 Q. But this is despite the fact that they actually had	23	Q. This is just oil you're looking at, at this point?
2	little data to go on to try and find actually where to	24	A. Yes, as I think I mentioned in the presentation, it's
	put those wells, and the older technology that would	25	very hard to get there isn't data on gas benchmarking
	Page 113		Page 115
12:20		12:23 1	within the nappes. So you can only really do oil
12:20	2 A. Yes, I don't know the basis on which all those wells	2	benchmarking.
12:20	<ul><li>A. Yes, I don't know the basis on which all those wells</li><li>were located.</li></ul>	2 3	benchmarking. Q. And so you've used the map in the table which you can
12:20	<ul> <li>A. Yes, I don't know the basis on which all those wells</li> <li>were located.</li> <li>Q. And you will accept that no drilling has taken place</li> </ul>	2 3 4	<ul><li>benchmarking.</li><li>Q. And so you've used the map in the table which you can see on the next page to compare the amount of oil that</li></ul>
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12:241Q. Now, and you will have seen this in Mr Atkinson's12:281example, part of the area2presentation yesterday, and he mentioned this, that the2result would have been weight of the area	
	a where there's no cil the
2 presentation yesteruay, and he mentioned unis, that the 2 result would have been v	
3 green sort of blobs on the right-hand side of the map 3 A. It would. So I think I c	
	it seemed most logical to take
5 in that Silesian nappe; correct? 5 the entire area.	1. Alexa 1 1 11
6 A. That's where the bulk of the oil that's been found lies, 6 Q. But isn't the result of th	
	as you wish in order to get to
8 Q. But in fact, there are no green blobs in the western 8 the result that you want t	
9 half of the nappe at all, are there? 9 A. I didn't manipulate it to	
	the data as I had it, which
C C	ation in Poland, and allocated
12But there have been wells drilled across the area of the12it by nappe and came out	
	ırn to paragraph 109 of your first
	on PDF page 33 of your first
15Q. But you have nonetheless used the entirety of that nappe15expert report, page 29 in	
16to determine the resource density, even though half of16And you make a concl	
	tween the oilfields that have
	fied by Mr Atkinson, compared to
	ound in Poland, and say that:
	ected field size is over
	e existing Polish Carpathian
22 have been explored within that nappe: (a) the Silesian 22 fields."	
23nappe is different from the Claimant's licence area, but23Correct?	
24 (b) how would you know whether the area corresponds to 24 A. Yes.	
25 the positive half or the negative half of the area? 25 Q. And again, this is just of	ilfields we're talking about?
Page 117 Page 11	0
Page 117 Page 11	,
12:26 1 Q. But the same is true of the licence areas, isn't it? So 12:29 1 A. It is.	
12.20 I Q. But the sume is the of the meenee areas, isn't it. 50 12.29 I II. It is.	
	s exercise you have included all
2 if you don't know if you're comparing the Silesian 2 Q. And in conducting this	
2if you don't know if you're comparing the Silesian2Q. And in conducting this3nappe where only half of it has oil with the licence3known Polish oilfields;4areas, surely the assumption should be: well, maybe only4A. Yes.	
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<ul> <li>2 if you don't know if you're comparing the Silesian</li> <li>3 nappe where only half of it has oil with the licence</li> <li>4 areas, surely the assumption should be: well, maybe only</li> <li>5 half of that will have oil. You're simply not comparing</li> <li>6 the same things, are you?</li> <li>7 A. Sorry, you've lost me.</li> <li>8 Q. Well, if you are not going to take just the section</li> <li>9 where oil has been found to compare against the licence</li> <li>2 Q. And in conducting this</li> <li>3 known Polish oilfields;</li> <li>4 A. Yes.</li> <li>5 Q. Do you accept that the</li> <li>6 many fields which are s</li> <li>7 prospects?</li> <li>8 A. Yes.</li> <li>9 Q. And the reason for this</li> </ul>	correct? Polish field dataset includes maller than Mr Atkinson's
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10.01 1		10.00 1	
12:31 1	shows that in Poland there is a significant range in	12:33 1	more modern, is, again, not using the data in the
2	field size.	2	correct way to compare to what Mr Atkinson is estimating
3	Q. So you accept that the reality is that there's simply not the data to be able to know what the same field size	3	as at today? A. No. I don't think that follows. Because what he's
4	may be in Slovakia, or similar field size, and so you're	45	A. No. 1 don't think that follows. Because what he's plotted here is what's been produced from fields. It's
5 6	using a set of data from Poland that is much larger than		not related to individual well performance, this chart.
7	the set of data that exists for the licence areas?	6 7	It's field production.
8	A. Well, again, I am, because I'm just using the data that	8	Q. Can we please turn now to your second
	is available.		MR DRYMER: Pardon me, but on that point, wouldn't field
9	Q. But you're not comparing the same representative samples	9	production change as a result of modern techniques as
10 11	then, are you?	10 11	well?
11	A. Well, I am. I'm using, as I say, what is available.	11	A. Well, not necessarily, no, just the number of wells that
12	Q. But what is available isn't necessarily representative	12	you might need to produce the field.
13	of what actually exists?	13 14	MR DRYMER: I see.
14		14	A. If the field size is, let's say, a million barrels
15	you've explored. So you've got to use what data is	15	MR DRYMER: Got it.
10	available to you.	10	A. Then if you have got old wells producing small volumes
17	Q. But the data that you've had available from Poland is	17	there's only a million barrels to produce.
18	data that's been accumulated over 150 years. So that's	18	MR DRYMER: I see.
20	a much larger sample to compare against just what	1) 20	A. If you did modern ones then you would be able to do it
20	Mr Atkinson has done.	20 21	with less wells. But you're not going to change the
21	A. Well, it is. But, as I say, I'm not sure I'm not	21	size of the field.
22	sure where what you can do. I mean, I'm simply	22	MR DRYMER: Not for another few million years, perhaps.
23 24	plotting up the historical data from Poland.	23	A. Well, maybe.
24	Q. And I'm not saying that there is more data that you	24	MR DRYMER: Maybe. But production from a field of a given
23	Q. And this for saying that there is more data that you	25	The DR TWER. Mayoe. But production from a field of a given
	Page 121		Page 123
12.22 1	and there. Due and we is that if some daugh have	12.25 1	
12:32 1	could have. But my point is that if you don't have	12:35 1	size wouldn't increase?
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	<ul> <li>been a four-fold technology driven improvement?</li> <li>MR DRYMER: That's what I was looking for, thank you.</li> <li>A. I do.</li> <li>MR NEWING: But even with that you say your view is that Rockflow's assumption are still inflated by 10 to 20 times?</li> <li>A. Yes.</li> <li>Q. And the data that you have used for this comparison is contained in a very large spreadsheet which, don't worry, I'm not going to ask you to bring up, but which is at CDL-14 for the Tribunal's purpose?</li> <li>A. Yes.</li> <li>Q. And contains a list of over 4,000 wells that have been drilled in Poland since 1850; correct?</li> <li>A. Yes.</li> <li>Q. And you've used the data from all of those wells to perform this comparison, haven't you?</li> <li>A. I've used the data from, yes, the set of wells that reflected the oilfields, yes.</li> <li>Q. You will have seen from Dr Moy's presentation this morning that in his view many of the wells in that data would be inappropriate to use, as they relate to stratigraphic intervals which are too deep to be present in the Slovakian licence areas; do you remember him explaining that?</li> </ul>	12:39 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	<ul> <li>information to know whether the amounts have come from those deeper parts or from the shallower parts?</li> <li>A. Well, there's no production from the deeper stratigraphy. So any production as I've tried to explain, if you drill a well through the Silesian nappe and you've got the deeper section in which the TD is, if that well's produced any oil, then it's produced out of the Silesian nappe section. There's no as far as I'm aware, there's no production from the deeper stratigraphy.</li> <li>Q. And is that information that you've gained from that dataset about the wells in Poland, or is that information that you are assuming?</li> <li>A. The dataset on wells doesn't, I don't think, identify which the producing horizons are. But, as I say, as far as I'm aware, there's no indication of deeper production in Poland from the section below the Silesian nappe.</li> <li>Q. Dr Moy made clear in his presentation this morning that I think he said around 87% of the oil wells that have been drilled were from before 1946. Do you recall that?</li> <li>A. I do recall that.</li> <li>Q. And that they were virtually all shallower wells?</li> <li>A. The majority were shallow wells, yes.</li> <li>Q. Yes, 96% or something, I think he said. And he explained in his presentation that when you look at the</li> </ul>
20	Page 125		Page 127
$\begin{array}{c} 2\\ 3\\ 4\\ 5\\ 6\\ 7\\ 8\\ 9\\ 10\\ 11\\ 12\\ 13\\ 14\\ 15\\ 16\\ 17\\ 18\\ 19\\ 20\\ 21\\ 22\\ \end{array}$	<ul> <li>A. I do. I do remember him saying that.</li> <li>Q. Do you accept that those would be inappropriate to use as a comparison?</li> <li>A. No, I don't, because I think the mistake there is that underneath the Silesian nappe you do have the older stratigraphy, and I think the reference to the stratigraphy in the well database is where the well TD'd. So if it drills all the way through the Silesian nappe, it then TDs in older formation. So I don't think that the removal of those simply because they were a TD in an older formation negates the use of those wells, because they've drilled through all the shallower formations in the Silesian nappe.</li> <li>Q. But do you accept that the deeper you go, the greater the production may be?</li> <li>A. Not</li> <li>Q. The greater the pressure?</li> <li>A. Not necessarily. Yes, the deeper you go, the higher the pressure. But equally you may have, the deeper you go, the reservoir will deteriorate, and so you've got a balance between higher pressure and poorer reservoir parameters often.</li> <li>Q. But the data that you've used, which includes these wells which go far deeper than would exist in the Slovakian licence areas, do not actually give you the</li> </ul>	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	<ul> <li>amount of oil recovered in those pre-1946 shallower wells, the average production in fact comes out at something as 73,000 barrels per well, much higher than the averages that you have included in your table?</li> <li>A. But I think that's partly a function of the fact that he has removed a lot of the wells from his comparison. I think it's worth noting that even in the Claimant's documentation, they have a list of wells in some of their analogue fields that they've put in, and that list of wells totals somewhere near 3,700 wells. So I think reducing the number down to the number that Dr Moy was reporting, there seems to be a mismatch somewhere.</li> <li>Q. Would you accept, though, that if most of the production has come from shallower wells, even in your larger dataset I think that's what you were telling me just now, because the production is still coming from the top part that this should be compared to the shallower wells' production that is being proposed by the Claimant's experts?</li> <li>A. You can compare against the shallower as well as the deeper. The figure in this chart is actually the average of all three levels. The three oilfields in the Claimant's model are at different depths. So this figure of 400 is an average. The range within that model is from about 200-700.</li> </ul>

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10.40 1	O I dial Da Mar angleine die bie annantation andien	12.46 1	-h
12:42 1	Q. I think Dr Moy explained in his presentation earlier,	12:46 1	chance of success; it's one of the points that you
2	and it's in his second report at table 3-4, that the	2	summarise from the RPS report. A. Yes.
3	recovery estimated for wells that were at the shallower	3	
4	depths is from 143 to 220,000 barrels.	4	Q. And this RPS report was issued in May 2012; correct?
5	A. And that equates to the broadly to the figure of 200	5	A. 2012, I don't remember whether it was May, but I'll
6	I just gave.	6	accept it was May. Definitely 2012.
7	Q. Yes. But that's half of the 400 figure that you've	7	Q. And so this was before the processing and interpretation
8	assumed in this chart.	8	of the seismic data had been completed by Discovery;
9	A. At the low end, yes. But 700 is much bigger.	9	correct?
10	Q. But if we were only comparing the shallower wells, on	10	A. Yes.
11	the basis that in Poland most of the oil has been	11	Q. And before the MT data had even been acquired, let alone
12	recovered from shallower wells.	12	processed and interpreted?
13	A. Yes, if you want to go down that route. But 200 is	13	A. Yes.
14	still significantly more than the analysis here.	14	Q. And even before the EGI study as well?
15	Q. Yes. But assuming your four-fold production	15	A. Yes.
16	four-fold improvement, sorry, in production, it suddenly	16	Q. And yet RPS identified four prospects on the basis of
17	becomes a lot less than you've suggested.	17	the data that they had available to them then?
18	A. Sorry, it becomes a lot less?	18	A. They did, although as you can see in the description
19	Q. The increase, or the difference in the amount which	19	below the table in the paragraphs, they were heavily
20	Rockflow have estimated, which you have suggested, when	20	caveating what they had identified.
21	it's 400, after taking into account a four-fold	21	Q. But they did actually identify four prospects.
22	technology-driven improvement, is inflated by 10-20	22	A. They carried four prospects in that report, yes.
23	times, would be at least half that?	23	Q. And two of the prospects are in the Smilno area;
24	A. Well, it depends which nappe data you are taking.	24	correct?
25	I mean, if you took the whole of the Poland average,	25	A. They are.
	Page 129		Page 131
	C C		C C
12:44 1	we've got 20 there. But again, the historical data from	12:47 1	Q. And one of those would equate to the well that Discovery
12:44 1 2	we've got 20 there. But again, the historical data from the Dukla and the Magura gives you a figure of 8, if you	12:47 1 2	Q. And one of those would equate to the well that Discovery was planning to drill?
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12:49	1	is between 6% and 12% with an average of 9%?	12:52 1	(	Q. Okay. I'll come back to that in a moment.
12,77	2	A. I do.	12.52 1		So what they are saying this is here, this 16, is
	3	Q. And you say that that supports your calculation of 7.5%,	3		the chance that at least one of the three reservoirs in
	4	compared to Mr Atkinson's 20.6%?	4		that prospect will be successful; do you agree with
	5	A. Yes. I view that as being more comparable with my	5		that?
	6	analysis than Mr Atkinson's, yes.	6	5 1	A. Yes, that's an analysis, on the basis that you have one
	7	Q. Just as a first point, your calculation of the GCOS is	7		success.
	8	a calculation of the GCOS from just the three gas	8	(	Q. Yes. And it's higher because the chance of hitting one
	9	prospects that you have assessed, isn't it?	9	)	out of those three is higher than hitting each one of
	10	A. Sorry, my calc	10	)	them individually?
	11	Q. Your own GCOS calculation of 7.5% comes from your	11		A. Yes, that's what the analysis is designed to show, yes.
	12	assessment of the three gas prospects out of the five	12		Q. And if we turn over the page, at the table on the next
	13	that have been assessed; correct?	13		page at the top, we see the same for the Zborov B
		A. Oh, what, you mean because I took two out?	14		prospect, we see the title there; yes?
	14	-			A. Yes.
	15	Q. Yes.	15		
	16	A. Yes.	16		Q. And this one has five individual reservoirs, and then
	17	Q. And so it's not a calculation of the GCOS the average	17		they've allocated a total of at least one success of
	18	GCOS for all gas prospects in the licence areas; only	18		30%.
	19	those that you have looked at.	19	) /	A. Yes.
	20	A. Yes. I've only calculated a GCOS for the leads that we	20	) (	Q. And so again I put it to you that the 30% is the chance
	21	looked at in detail.	21	l	of success that they've identified for the Zborov B
	22	Q. And so your 7.5% GCOS is also not a calculation of the	22	2	prospect.
	23	GCOS of these particular Smilno prospects that RPS has	23	3	A. Well, these two prospects have got stacked different
	24	looked at here, let alone the Zborov ones, as you	24		reservoirs in them. So there's separate reservoirs
	25	discounted both of those Smilno ones?	25		within the same prospect that they've put here. So each
	25	discounted bour of those similio ones.	2.	,	whill the same prospect that they ve put here. So each
		Page 133			Page 135
12:50	1	A. Well, they're different GCOS calculations for different	12:54 1		individual opportunity has a GCOS calculated. They've
12:50	1 2	A. Well, they're different GCOS calculations for different prospects, effectively, or different leads, the way	12:54 1 2		individual opportunity has a GCOS calculated. They've then done a statistical analysis to look at the impact
12:50		-			then done a statistical analysis to look at the impact
12:50	2	prospects, effectively, or different leads, the way they've been evaluated. They may be in the same	2		
12:50	2 3 4	prospects, effectively, or different leads, the way	2 3 4		then done a statistical analysis to look at the impact of drilling and finding one of those five, or at least one of those five reservoirs.
12:50	2 3 4 5	prospects, effectively, or different leads, the way they've been evaluated. They may be in the same geographic location. But, yes, I calculated the GCOS for the three that I evaluated. RPS have calculated	2 3 4 5	Ç	<ul><li>then done a statistical analysis to look at the impact of drilling and finding one of those five, or at least one of those five reservoirs.</li><li>Q. Yes, so this is the chance of success of finding at</li></ul>
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12:55 1	direct comparison with what I'm looking at in assessing	12:58 1	Q. You say at paragraph 33 on the next page that:
2	the GCOS for the leads identified.	2	"The scope of the evaluation was ' to
3	The leads identified by Mr Atkinson are not a series	3	determine the prospective resources in the two committed
4	of separate stacked reservoir. Each lead has one	4	wells in the Ol'ka and Stromy areas."
5	target.	5	So they were only looking at those two wells and did
6	Q. But Mr Atkinson explained yesterday in his testimony	6	not undertake an evaluation of the rest of the licence
7	that they deliberately did not try to identify	7	areas, did they?
8	individual reservoirs, but that doesn't mean that they	8	A. They looked at the area around those two wells.
9	are not that they may not be stacked reservoirs.	9	Q. But not the entirety of the licence areas?
10	They simply chose a more simple approach. Do you recall	10	A. No.
10	him saying that?	10	Q. And you also note in that paragraph that although they
11	A. These are I don't recall him saying that, but these	11	had 12 seismic lines available, they only interpreted
12	are individual separate targets within one prospect in	12	five of them.
13	the RPS.		
		14	A. I think that was a reference they made, yes.
15	Q. But RPS itself has determined, as you can see from this	15	Q. Would you agree that that's a very limited basis on
16	,	16	which to perform an analysis?
17	prospect as a whole is 16% and 30%, yet you make no	17	A. Well, it depends what you mean by the analysis. If
18	reference to those in your report at all; isn't that	18	those five lines cover the area that they were charged
19	misleading?	19	with reviewing, then fine. If the rest of the lines
20	A. Not as far as I'm concerned, no. Because, as I say,	20	were outside the area they were charged with looking at,
21	I've quoted the GCOS that RPS put forward for the	21	you know.
22	individual target within the prospect.	22	Q. Well, you yourself seemed to note that they had 12
23	Q. Would you agree with me I appreciate you don't have	23	seismic lines available to them.
24	a calculator with you, but would you agree with me that	24	A. Well, I think that's stated in the report.
25	to work out the average of the GCOS with the prospects	25	Q. And in the report it doesn't appear that they considered
	Page 137		Page 139
	1 age 137		
12.57 1	as set out in this table, you would add the four numbers	12.50 1	
12:57 1	as set out in this table, you would add the four numbers	12:59 1	the surface geology, does it?
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23	and divide by 4: 12 plus 12 plus 16 plus 30, and divide by 4?	2 3	<ul><li>the surface geology, does it?</li><li>A. I don't remember.</li><li>Q. But would you agree that this is a very preliminary</li></ul>
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13:01 1	MD NEWING, Some anomatic (David)	13:05 1	Does that you obviously assume that or take that
	MR NEWING: Sorry, one moment. (Pause).	13:05 1	Does that you obviously assume that or take that into account in your work. Phrasing it this way, does
2	No further questions. THE PRESIDENT: Thank you.	2	it change in any way your conclusions here, in terms of
3	Any questions in re-direct?	4	prospectivity?
4	MR PILAWA: I have no questions on re-direct,	4 5	A. No, because I think regardless of whether the developer
5	Madam President.		or the explorer is willing to take the risk, you've
6		6	
7	THE PRESIDENT: Do my colleagues have questions for	7	still got to have a view of what might be there. MR DRYMER: Yes.
8	Mr Longman?	8	
9	(1.02 pm)	9	A. So what the individual company might do I don't think
10	Questions from THE TRIBUNAL	10	changes your view of what you would assess might be
11	MR DRYMER: Doctor, thank you for your evidence. As with	11	there in the first place.
12	your friends, Messrs Atkinson, Moy and Howard, I believe	12	
13	I understand the details of your analysis, but	13	good. Thank you very much.
14	I sometimes like to zoom out and ask a more conceptual	14	THE PRESIDENT: I have no further questions, Dr Longman. So
15	question, to be sure I don't miss the forest for the	15	that concludes your examination.
16	trees.	16	DR LONGMAN: Thank you.
17	Could you elaborate briefly on the notion that	17	THE PRESIDENT: Thank you very much.
18	prospectivity is in part a function of a developer's	18	So this is a good time for a lunch break. Should we
19	willingness to drill? Did I understand that aspect of	19	resume at 2.15?
20	your evidence, of your testimony earlier correctly? Or	20	Let me ask, how much time do you envisage for the
21	no?	21	next cross?
22	A. That's an interesting question.	22	MR NEWING: Probably a similar amount of time. I'm not
23	MR DRYMER: Well, I'm not trying to put words in your mouth.	23	entirely sure how much time I took then. But probably
24	A. No, no. In the ideal world, I think you want to have,	24	similar, no more than an hour and a half, I would
25	obviously, as much comfort as you can get on	25	imagine.
	Page 141		Page 143
	C.		
13:03 1	understanding what you're targeting. But you've got to	13:07 1	THE PRESIDENT: An hour and a half.
2	work with the information that is available, and	2	MR NEWING: In fact, I was a lot less than I thought I was,
3	I suppose it comes down to a perception of risk in the	3	but certainly no more than an hour and a half.
4	end as to what individual companies are going to see as	4	THE PRESIDENT: I think then we have plenty of time this
5	being an appropriate opportunity to follow.	5	afternoon. We need to have
6	MR DRYMER: That sounds, in a very, very gross sense,	6	
7	subjective. Is that the case? And doesn't that cut	-	So we'll resume at 2.15.
	subjective. Is that the case. This doesn't that cut	7	So we'll resume at 2.15. MR NEWING: Thank you.
8	both ways?	_	
8 9		7	MR NEWING: Thank you.
	both ways?	7 8	MR NEWING: Thank you. MR PILAWA: See you then.
9	both ways? A. Yes, exploration is a risk and reward game. So there's	7 8 9	MR NEWING: Thank you. MR PILAWA: See you then. (1.07 pm)
9 10	both ways? A. Yes, exploration is a risk and reward game. So there's always going to be an element of objectivity, to the	7 8 9 10	MR NEWING: Thank you. MR PILAWA: See you then. (1.07 pm) (Adjourned until 2.15 pm)
9 10 11	both ways? A. Yes, exploration is a risk and reward game. So there's always going to be an element of objectivity, to the extent that you can have that, and subjectivity, to the	7 8 9 10 11	MR NEWING: Thank you. MR PILAWA: See you then. (1.07 pm) (Adjourned until 2.15 pm) (2.18 pm)
9 10 11 12	both ways? A. Yes, exploration is a risk and reward game. So there's always going to be an element of objectivity, to the extent that you can have that, and subjectivity, to the extent that you're going to make a decision at some stage.	7 8 9 10 11 12	MR NEWING: Thank you. MR PILAWA: See you then. (1.07 pm) (Adjourned until 2.15 pm) (2.18 pm) THE PRESIDENT: Fine, we're ready to start.
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Page 142

14.20 1	THE DESIDENT. Vou will be based as support with some As	14.00 1	
14:20 1 2	THE PRESIDENT: You will be heard as expert witnesses. As	14:22 1	them to an appendix to this slide show.
2	expert witnesses you have a duty to make statements in accordance with your sincere belief. Can you please,	2	(Slide 1) So what we will talk about today is in the
		3	market approach we will show that if it is based on past
4	one after the other, read the expert declaration.	4	transactions, you will reach a but-for fair market value
5	MR ACKLAM: I solemnly declare upon my honour and conscience	5	below \$2 million. We will also show that based on
6	that my statement will be in accordance with my sincere	6	companies that were deemed comparable by the Claimant
7	belief.	7	itself, that fair market value is below \$1.1 million.
8	DR DUARTE-SILVA: I solemnly declare upon my honour and	8	We will then show that the Claimant's sunk cost
9	conscience that my statement will be in accordance with	9	claim is unreliable; the lost opportunity claim is
10	my sincere belief.	10	unsubstantiated, and then we will provide comments on
11	THE PRESIDENT: Before you start with the presentation, when	11	the appropriate rate of interest from an economic
12	you get questions, will one of you take the lead and	12	*
13	either answer or delegate to the other? Have you	13	Now I'll turn to my colleague.
14	clearly allocated portions of the reports that go to the	14	MR ACKLAM: So when it first invested in the project, the
15	one or the other, or how are you organised?	15	Claimant granted an overriding royalty of 3.5% of
16		16	
17	us. When we get a question, what we can say is one of	17	was in March 2014. San Leon then sold the ORR
18	us will answer, not two of us will answer.	18	in January 2015 for £120,000, and that corresponds to $1515$ will be for $1000\%$ of the second formula of the second sec
19	I can make that judgment, if that's okay with the	19	\$5.15 million for 100% of the revenues from the
20	Tribunal.	20	licences, or \$1.29 million for the Claimant's share.
21	THE PRESIDENT: Good. The idea is simply that it is not one	21	Now, it's necessary to move these numbers from the
22	who starts and the other then who corrects, or whatever.	22	transaction date of January 2015 to both the ex-ante and
23	DR DUARTE-SILVA: Of course.	23	ex-post valuation dates. To do this we used the
24	THE PRESIDENT: One person per question, and you will decide how to allocate.	24	<b>1</b>
25	now to anocate.	25	but-for fair market values of \$1.82 million and
	Page 145		Page 147
14:21 1	DR DUARTE-SILVA: Yes.	14:24 1	\$1.66 million respectively.
2	THE PRESIDENT: Good. Fine. So you may start. As you	2	Now, this royalty is based on revenues only, so
23	THE PRESIDENT: Good. Fine. So you may start. As you know, you have 15 minutes.	2 3	Now, this royalty is based on revenues only, so therefore the values are biased upwards compared to the
2 3 4	<ul><li>THE PRESIDENT: Good. Fine. So you may start. As you know, you have 15 minutes.</li><li>DR DUARTE-SILVA: Yes, good afternoon to all members of the</li></ul>	2 3 4	Now, this royalty is based on revenues only, so therefore the values are biased upwards compared to the true fair market value, which is affected by costs,
2 3 4 5	<ul><li>THE PRESIDENT: Good. Fine. So you may start. As you know, you have 15 minutes.</li><li>DR DUARTE-SILVA: Yes, good afternoon to all members of the Tribunal.</li></ul>	2 3 4 5	Now, this royalty is based on revenues only, so therefore the values are biased upwards compared to the true fair market value, which is affected by costs, taxes and other deductions which do not come into play
2 3 4 5 6	<ul><li>THE PRESIDENT: Good. Fine. So you may start. As you know, you have 15 minutes.</li><li>DR DUARTE-SILVA: Yes, good afternoon to all members of the Tribunal.</li><li>Before we start we just need to make two very minor</li></ul>	2 3 4 5 6	Now, this royalty is based on revenues only, so therefore the values are biased upwards compared to the true fair market value, which is affected by costs, taxes and other deductions which do not come into play in the royalty.
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14:25 1	historic ownership of the project. And San Leon would	14:28 1	0.6 cents.
2	not have left such a significant amount of money on the	2	(Slide 7) The result of this is that the fair market
3	table when it sold the ORR for £120,000.	3	value of the Claimant's share of the licences at the
4	Just to compare, Mr Howard's discounted cash flow	4	ex-ante valuation date is \$40,000. However, ADX
5	model implies that these revenues were worth \$61 million	5	Energy's enterprise value, that 8 million, includes the
6	in undiscounted terms.	6	value of both contingent and prospective resources,
7	(Slide 4) There was also an attempted transaction	7	because ADX Energy had both contingent and prospective
8	that is consistent with the fair market value implied by	8	at that time, whereas the project only had prospective
9	this ORR transaction, and that is the agreement by Akard	9	resources.
10	to provide \$3.7 million of funding to the Claimant	10	Generally, contingent resources are valued more, or
11	in October 2015. Now, if the Akard agreement had been	11	higher per barrel than prospective resources.
12	for purchasing 50% of the proceeds of the Claimant's	12	Therefore, this value is biased high relative to the
13	share in the licences, that would mean a fair market	13	project.
14	value of 3.7 million for the Claimant's 25% share. And,	14	We also note the calculation by Mr Howard of
15	again, moving this fair market value from the	15	36 million at the ex-ante valuation date. This uses
16	transaction date to the ex-ante and ex-post valuation	16	a metric of EV per 2P reserves, despite the fact that
17	dates, using the same index as with the ORR, results in	17	the project did not have reserves at the ex-ante
18	but-for fair market values of \$5.7 million and	18	valuation date.
19	\$5.2 million respectively.	19	Furthermore, Mr Howard used a weighted average of EV
20	However, in fact, Akard actually purchased more than	20	per 2P ratios across the comparable companies, although
21	50% of the proceeds of the Claimant's share of the	21	he described it in his report as a notional line of best
22	licences for that \$3.7 million. So initially Akard	22	fit. The value that he calculated for this was \$4.375
23	would have received 80% of the proceeds until it had	23	per barrel, and he then multiplied this by the reserves
24	been paid four times its initial investment. That would	24	which Mr Howard considered the project to have at the
25	have then switched to Akard receiving 65% of the	25	ex-ante valuation date to reach the \$36 million
	Page 149		Page 151
14.27 1	proceeds until it had received five times its original	14.30 1	valuation
14:27 1 2	proceeds until it had received five times its original investment before finally reverting to a 50/50 share	14:30 1 2	valuation. (Slide 8) On an ex-post perspective, we analysed the
2	investment, before finally reverting to a 50/50 share	2	(Slide 8) On an ex-post perspective, we analysed the
2 3	investment, before finally reverting to a 50/50 share between Akard and the Claimant.	2 3	(Slide 8) On an ex-post perspective, we analysed the same eight companies deemed comparable by the Claimant,
2 3 4	investment, before finally reverting to a 50/50 share between Akard and the Claimant. As a result, Akard had purchased more than 50% of	2 3 4	(Slide 8) On an ex-post perspective, we analysed the same eight companies deemed comparable by the Claimant, with two adjustments. We removed Cub Energy, which by
2 3	investment, before finally reverting to a 50/50 share between Akard and the Claimant. As a result, Akard had purchased more than 50% of the proceeds, and therefore the project is worth less	2 3	(Slide 8) On an ex-post perspective, we analysed the same eight companies deemed comparable by the Claimant, with two adjustments. We removed Cub Energy, which by the ex-post date had sold all of its oil and gas assets,
2 3 4 5	investment, before finally reverting to a 50/50 share between Akard and the Claimant. As a result, Akard had purchased more than 50% of	2 3 4 5	(Slide 8) On an ex-post perspective, we analysed the same eight companies deemed comparable by the Claimant, with two adjustments. We removed Cub Energy, which by
2 3 4 5 6 7	investment, before finally reverting to a 50/50 share between Akard and the Claimant. As a result, Akard had purchased more than 50% of the proceeds, and therefore the project is worth less than the ex-ante and ex-post fair market values indicated on this slide.	2 3 4 5 6 7	(Slide 8) On an ex-post perspective, we analysed the same eight companies deemed comparable by the Claimant, with two adjustments. We removed Cub Energy, which by the ex-post date had sold all of its oil and gas assets, and as with Mr Howard, we also removed JKX. At the ex-post date all the remaining six comparable
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14:31	1	implies a fair market value of between 0.5 and	14:34 1	value, 53 million.
1.101	2	\$1.1 million.	2	But, until the start of this hearing we were unaware
	3	I'll now pass back to my colleague.	3	of why 40%, so we didn't respond to it. When 40% was
	4	DR DUARTE-SILVA: Thank you.	4	shown, there was no explanation of why 40%. We learned
	5	(Slide 10) So we have seen two ways to look at the	5	that elsewhere in the Memorial, the Claimant cite to
	6	market approach on an ex-ante and ex-post basis, and if	6	Sapphire v NIOC, and we learned on the first day of the
	7	you look at the globality of them we are talking at	7	hearing that the argument for 40% is 2 out of 5 million
	8	under \$2 million of but-for fair market value.	8	in claimed lost profits. 2 out of 5, that's 40%.
	9	I will now talk about the sunk cost claim, which is	9	There's no explanation in the award of what those
	10	the next slide (11).	10	lost profits represent or how much they were already
	11	Generally we can say that sunk costs are not a good	10	reduced by uncertainty. Were they as reduced by
	12	measure of the project's fair market value, and one	11	
	12	clear example of this is that the owner of the project	12	
	13	before San Leon had invested \$7.6 million into the	13	*
	14	project by January 2013, and then San Leon sold to the	14	
	16	Claimant for just €153,000. So just investig capital	15	
	17	doesn't mean necessarily that it is worth at least that	10	\$46 million if everything goes as well as possible. In
		capital.	17	
	18	In any case, let's examine what the Claimant's sunk		
	19 20	•	19	
	20	cost claim is, and it is the sum of these three amounts:	20	
	21	the amount paid to acquire Aurelian Oil & Gas Slovakia	21	(Slide 14) Finally, the Claimant's argument for its
	22	for $\notin$ 153,000; the amount paid to buy the ORRin January	22	
	23	2015 of £120,000; and the bulk of it, AOG's, in this	23	substantiation. The Claimant argues for interest at
	24	case Alpine, Alpine's share of the exploration	24	LIBOR plus 4% (Slide 15) arguing that's the approximate
	25	expenditures incurred on the project between 2014 and	25	borrowing costs which Discovery would have had to have
		Page 153		Page 155
		-		
14:33	1	2020.	14:36 1	pay. But this is wholly unsupported.
	2	However, when we examined the sunk cost calculation	2	First, there's no reason to think that the Claimant
	3	of €2.8 million in Fraser's statement 2, we find it	3	had to borrow. There is no evidence that the Claimant
	4	quite unreliable.	4	borrowed any amounts. There's no evidence that such
	5	First, the annual reports submitted in evidence are	5	hypothetical borrowing would have been at LIBOR plus 4%.
	6	not audited, and that is acknowledged by Mr Fraser in	6	And the only Claimant's reference to a rate of LIBOR
	7	his second statement, paragraph 52.	7	plus 4% is to another case, another award,
	8	Also, there's no invoices attached to the annual	8	Murphy v Ecuador II, which implies that they're
	9	reports. There are just some summaries, in some of	9	requesting interest based on those parties' borrowing
	10	them.	10	costs.
	11	So these numbers are just not reliable. There's	11	In contrast, the appropriate interest rate on
	12	also no evidence that these claimed amounts were ever	12	a US dollar claim should be at most the interest rate on
	13	disbursed, because just being charged something by	13	dollar-denominated Slovakian sovereign bonds, because
	14	a supplier doesn't mean ever that you necessarily paid	14	the only default risk that is relevant would be the risk
	15	for them. There's no indication of proofs of payment or	15	that Slovakia does not pay an award, and the Claimant
	16	anything of that sort.	16	has not been exposed to business risks of the project.
	17	Mr Fraser also applies interest to these alleged	17	(Slide 16) As I noted at the beginning of this
	18	costs, but, even if they were disbursed, their timing is	18	presentation, we also have an appendix here that can be
	19	still unknown, so we don't know when they were	19	useful to you, that shows as I noted
	20	disbursed, if they were disbursed, so we don't know	20	THE PRESIDENT: I should note that you are just reaching the
	21	what's the start date for that interest.	21	15 minutes.
	22	The Claimants also make an argument about a lost	22	DR DUARTE-SILVA: I'll stop there.
	23	opportunity claim (Slide 13) and this lost opportunity	23	THE PRESIDENT: These are the appendices that you have?
	24	claim was shown in their Reply Memorial to be between	24	DR DUARTE-SILVA: That is. That is right. And all, from A
I				
	25	Mr Howard's DCF model of 133 million. and 40% of that	25	to F, they are appendices just for your reference.
	25	Mr Howard's DCF model of 133 million, and 40% of that	25	to F, they are appendices just for your reference,

14:37 1	guidance. They talk, for example, about the timeline of	14:39 1 value.
2	the assets' ownership, that could be helpful to the	2 Q. They used it, did they not, to work out the cost of
3	Tribunal. And the terms of transactions and so on.	<ul> <li>equity capital the cost of capital for the purposes</li> </ul>
4	THE PRESIDENT: Thank you.	4 of the DCF model, which is a completely different
5	DR DUARTE-SILVA: Of course.	5 approach?
6	THE PRESIDENT:	6 A. (Mr Duarte-Silva) Well, the way to calculate the
7	Mr Newing, your turn.	<ul> <li>7 market-based approach based on comparables would be to</li> </ul>
8	(2.37 pm)	8 look at comparable companies. When the company looks
9	Cross-examination by MR NEWING	9 when the Claimant looks at calculating the cost of
10	Q. Thank you.	10 capital, they're naturally looking at comparable
11	Good afternoon. My name is Neil Newing and I will	11 companies. So they were deemed comparable by the
12	be asking you some questions on behalf of the Claimant.	12 Claimant.
13	A. (Mr Duarte-Silva) Thank you.	13 Q. Can I ask you to look at the second expert report of
14	Q. We've heard you state, and we have read in your reports,	14 Mr Howard, please, at page 94.
15	that you claim the appropriate valuation method to use	15 A. (Mr Duarte-Silva) I don't have it in front of me.
16	in this circumstance is a market-based approach;	16 Q. It will come up on the screen in a moment.
17	correct?	17 In fact, page 95. And you will see at paragraph 362
18	A. (Mr Acklam) Correct.	18 Mr Howard refers to the fact that in your report you
19	Q. And that's based on looking at comparable transactions	19 have said he "does not disagree with this list of
20	or companies; yes?	20 comparable companies", but says this is "misleading",
21	A. (Mr Duarte-Silva) Yes.	21 because he has considered them comparable:
22	Q. And do you accept that in looking to find comparable	22 " on the basis that they were small oil and gas
23	transactions involving oil and gas assets, it's	23 companies, operating in Eastern Europe, and therefore
24	important to look at the nature of the assets in	24 would have similar WACCs to Discovery"
25	question?	25 And then in the next paragraph he says:
-	-	
	Page 157	Page 159
14:38 1	A. (Mr Duarte-Silva) Of course it is, and the company did	14:41 1 "At no point did I state that the companies had
14:38 1 2	<ul> <li>A. (Mr Duarte-Silva) Of course it is, and the company did that for us, they selected eight comparable companies.</li> </ul>	14:41 1 "At no point did I state that the companies had assets comparable to those of Discovery"
14:38 1 2 3	that for us, they selected eight comparable companies.	2 assets comparable to those of Discovery"
2	that for us, they selected eight comparable companies. Q. So, just to pick you up on that, you have said that	<ul> <li>assets comparable to those of Discovery"</li> <li>And explains why; do you see that?</li> </ul>
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14:42 1	itself, the Claimant, thought was comparable. I think	14:45 1	was completed. I believe that Akard did not fulfil the
2	that's a better assessment than Mr Howard's assessment.	2	full agreement.
3	And the company did that before Mr Howard performed this	3	Q. But the agreement itself was signed and accepted at the
4	analysis.	4	end of 2015, there was a default later, but the
5	Mr Howard also commented on this in his first	5	agreement was completed in essence in 2015 at that time.
6	report, talked about this list of comparable companies,	6	And the value that was placed that you are placing on
7	and all he said was actually, in accordance of what we	7	it is based on the transaction that was agreed in 2015?
8	do, is he grabbed those list of comparable companies and	8	A. (Mr Duarte-Silva) I believe that's true. However, the
9	said only one of them, Cub Energy, has prospective	9	fact that the cash flows were not exchanged hampers the
10	resources. Which was a clerical mistake. It's not, as	10	ability to rely on that transaction.
11	we showed in our second report, Cub Energy was not in	11	Q. Is it your understanding that no money was paid under
12	that status. So we corrected that and we found the only	12	that transaction at all?
13	one that does have prospective resources is ADX. So we	13	A. (Mr Acklam) No. We understand some money was paid but
14	basically followed his approach and corrected it for	14	not the full agreement.
15	a mistake he made.	15	Q. Okay. Before looking at those I'm going to call them
16	So he did consider them comparable in the first	16	"transactions" for simplicity, but I take your point
17	report.	17	about the Gulf Shores one in particular not having been
18	Q. For a different purpose?	18	completed.
19	A. (Mr Duarte-Silva) I don't understand what you mean by	19	But before we look at those further, do you accept
20	"a different purpose". We were calculating fair market	20	that any view of value that may have been expressed over
21	value, and whether you're calculating it to calculate	21	nine years ago is potentially out of date and things may
22	the cost of capital, or to use multiples, they're	22	have changed in the meantime?
23	comparable companies. It's common to use the same	23	A. (Mr Duarte-Silva) I think your question needs
24	comparable companies to calculate the cost of capital	24	a clarification whether we are talking about the actual
25	and to calculate multiples.	25	or the but-for world. Until then I don't think I can
	D 1/1		D 1(2
	Page 161		Page 163
14:44 1	Q. But you would accept that Mr Howard has a different view	14:46 1	answer it.
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14.40 1		14.51 1	
14:48 1		14:51 1	A. (Mr Duarte-Silva) Yes.
2		2	Q. And you will see there the rather dramatic drop that
3		3	occurs at the end of 2014 and into 2016?
4		4	A. (Mr Duarte-Silva) Yes.
5		5	Q. And so would you agree that this is another reason why
6	6 11	6	a valuation that may have taken place in particularly
7		7	early 2015 coming off such a large drop may be cautious?
8	Q. So your position: that the work that may have been	8	A. (Mr Duarte-Silva) I don't agree with that. That is the
ç	undertaken since 2015 or since each of these	9	market value at the time, and we accounted for the
10	transactions took place added no further value is based	10	passage of time and oil prices using the FTSE index from
11	on Dr Longman's assessment?	11	the time of the transaction until the ex-ante date,
12	A. (Mr Duarte-Silva) Not just that. There was also,	12	until the ex-post date. So this is fully reflected in
13	I think, a shrinkage of licence area, for example.	13	our analysis and doesn't require more caution.
14	Q. Yes. But otherwise, your view as to whether the data	14	Q. But would you accept that somebody who was buying or
15	itself, or the further analysis, sorry, that's taken	15	selling an asset at that date may have a different view
10		16	on it, in light of the fact that the price had crashed
17		17	so significantly at that time?
18		18	A. (Mr Duarte-Silva) People are allowed to have different
19		10	views. This is the objective, unbiased view of all
20		20	market participants. And it shows the price was low.
21		20	And I recall, I mean, at the time, there was a lot
21		21	of discussion that oil prices are going to be low for
23	5 5	23	a long time.
24		24	Q. So if we turn to the first transaction, the San Leon
25	view on value which was expressed nine years ago must be	25	ORR, and you've explained already that this was
	Page 165		Page 167
	C		e e
14:50	treated with some caution until you have been able to	14:52 1	purchased back by Discovery in January 2015 for
	2	14:52 1 2	purchased back by Discovery in January 2015 for £120,000; yes?
	ascertain whether any events or analyses that have taken		
4	<ul><li>ascertain whether any events or analyses that have taken</li><li>place have added any additional value?</li></ul>	2	£120,000; yes? A. (Mr Duarte-Silva) That's right.
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14:54 1	A. (Mr Acklam) No, although Aurelian was still part of San	14:57 1	And you've seen that before, yes?
2	Leon.	2	A. (Mr Duarte-Silva) Yes, we see that.
3	Q. Mr Lewis' evidence, which has not been challenged, is	3	Q. And he goes on in paragraph 52, on the next page, to say
4	that only initial processing and interpretation of the	4	that in respect of the price, you have the figure of
5	seismic data had been carried out by the time that	5	£120,000, and just after that:
6	Discovery bought AOG; are you aware of that?	6	"This price was not based on any valuation of the
7	A. (Mr Acklam) I'm not aware of the specifics of Mr Lewis'	7	royalty at the time and it did not represent its real
8	testimony, but	8	value in the open market. It was, in a sense, a fire
9	Q. Okay. I'll bring this up. If we could look at	9	sale, and they had no one else they could possibly sell
10	Mr Lewis' first witness statement, please, at page 9.	10	it to."
11	I'll just wait for that to come up on the screen.	11	Do you see that?
12	If we could go to page 9, please. Yes, it's at	12	A. (Mr Duarte-Silva) Yes.
13	paragraph 24. You will see Mr Lewis states there that:	13	A. (Mr Acklam) Yes.
14	"After AOG was granted the rights to explore	14	Q. Now Mr Lewis' evidence in this regard was also not
15	770 km of seismic was acquired between 2008 and	15	challenged in his cross-examination, were you aware of
16	2011 [that's when it was owned by Aurelian], with only	16	that?
17	initial processing and interpretation of those data	17	A. (Mr Duarte-Silva) No.
18	carried out. After Discovery acquired AOG, we completed	18	Q. But there is no basis other than what you have set out
19	the processing of these data, and commenced	19	in your second report, which I will come to in a moment,
20	interpretation in 2014 and 2015."	20	for saying that what Mr Lewis has described about the
21	Do you see that?	21	circumstances of that sale are wrong, is there?
22	A. (Mr Acklam) Yes.	22	A. (Mr Duarte-Silva) We are here to answer about our
23	Q. And Mr Lewis' evidence on that has not been challenged.	23	opinions, but if you are asking us what happened in this
24	So on this basis, would you accept it's likely that	24	hearing, I think we're not the best people to tell you.
25	San Leon would not have been aware of this additional	25	Q. But if the Tribunal accepts that what Mr Lewis has said
	Page 169		Page 171
			- "20 - 1 -
14:55 1	analysis work that had been carried out?	14:58 1	about the circumstances of that transaction is true,
14:55 1 2	analysis work that had been carried out? A. (Mr Acklam) It may not have been aware of this	14:58 1 2	about the circumstances of that transaction is true, would you agree that this would then not be
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2 3 4	A. (Mr Acklam) It may not have been aware of this additional analysis work. There's no indication here as to whether or not the completion of processing, as	2 3 4	would you agree that this would then not be an appropriate transaction for purposes of a market-based valuation?
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Page 170

14:59 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	<ul> <li>Q. And you do not know what San Leon's CEO, Mr Fanning, with whom the deal was negotiated and agreed at the time, believed when he entered into this transaction, do you?</li> <li>A. (Mr Duarte-Silva) I believe that is it is fair to assume that Mr Fanning is a rational economic actor and would try to sell it for the highest value possible. And even if they were in a dire financial situation, which we dispute, and show they were not, then they could still try to sell it to other people. They don't have to sell it to Mr Lewis' company.</li> <li>Q. But these are assumptions you are making on what you think a rational businessman would have done. You don't actually know what Mr Fanning thought at the time?</li> <li>A. (Mr Duarte-Silva) I believe that Mr Fanning is rational.</li> <li>Q. But you have no evidence on which to base that, other than the fact that he is a businessman?</li> </ul>	15:02 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	here are correct, as to my best understanding, and that I imagine that as a publicly listed company, there are checks and balances and that there is probably a compensation committee, that I actually read about, I think, a compensation committee of the board of directors that examines this and pays them the amounts
18	A. (Mr Duarte-Silva) Yes. He's a rational human being and	18	
19	he is an executive of a company.	19	
20	Q. You said just now and you say in your report as well	20	A. (Mr Duarte-Silva) So if your question is whether it's
21	that you don't accept that the company was in a dire	21	excessive, I have no reason to believe it's excessive.
22	financial position, and you give a number of reasons for	22	1 2
23	this in your second report. One of the reasons is that	23	
24	directors' salaries totalled €2.8 million across 2014	24	1 5
25	and 2015; correct?	25	A. (Mr Duarte-Silva) It is certainly consistent with
	Page 173		Page 175
15:01 1			
15.01 1	A. (Mr Duarte-Silva) Yes, we say that.	15:03 1	a company that is not in dire straits. And if we're
13.01 1	<ul><li>A. (Mr Duarte-Silva) Yes, we say that.</li><li>Q. Do you know who those salaries were paid to?</li></ul>	15:03 1 2	a company that is not in dire straits. And if we're talking about £120,000 that the company was desperate to
2	Q. Do you know who those salaries were paid to?	2	talking about £120,000 that the company was desperate to get, according to the Claimant, so much that it sold it for just £120,000, that is contrasting highly with these
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15:05	1	sets out on the top left the loops and horrowings. And	15:07 1	A. (Mr Duarte-Silva) Yes.
15.05	1 2	sets out on the top left the loans and borrowings. And you will see the first was a €3.3 million loanfrom	13.07 1	Q. Alright. Now I would like to turn up CRA-63, which is
	2 3	in fact it was \$3.2 million, it says in the note from	3	the 2015 annual report. And if we can go to page 78,
			4	please. So we have You can scroll down (Pause)
	4	YA Global Masters SPV Limited; do you see that?		
	5	A. (Mr Duarte-Silva) Yes.	5	So we can see the loans here in 2015, and so we see
	6	Q. And the note to this says that this had an arrangement	6	the same YA Global Masters loan is still there, that's
	7	fee of \$800,000, so 25% of the loan value. That's	7	not been repaid. The Palomar loan has been repaid and
	8	a very steep arrangement fee, isn't it?	8	we have a new loan from LPL Finance, and then other;
	9	A. (Mr Duarte-Silva) It's what the arrangement fee it	9	correct?
	10	had.	10	A. Yes.
	11	Q. But does this not indicate that in fact it was not easy	11	Q. And you will see in the note number 3 that in relation
	12	for it to obtain financing, if it had to resort to	12	to the new loan from LPL Finance, it says that
	13	seeking loans on such steep terms?	13	Mr Fanning has personally guaranteed that loan; do you
	14	A. (Mr Duarte-Silva) It's the first time I'm hearing this.	14	see that?
	15	I would have to analyse this. I don't know if it's	15	A. (Mr Duarte-Silva) I see that.
	16	a high arrangement fee or not.	16	Q. So doesn't this again suggest that the company was not
	17	And you have to remember, this is an oil exploration	17	able to obtain financing without Mr Fanning himself
	18	company. It's a company that, it's not surprising,	18	personally guaranteeing that financing?
	19	that's going through, like, these arrangement fees and	19	A. (Mr Duarte-Silva) I disagree with that. They had a line
	20	so on, and	20	of credit of €30 million.
	21	Q. You said this is the first time you're hearing this.	21	Q. If we could now turn
	22	But is it not the case that it is your second expert	22	A. (Mr Duarte-Silva) And also they raised £29 million from
	23	report which sets out the fact that the company had	23	external shareholders.
	24	€5.8 million in loans? So surely you must have looked	24	MR DRYMER: So what, if anything, does this indicate, in
	25	at this in order to get those figures?	25	your opinion? If you were asked to guarantee personally
		Page 177		Page 179
				Ũ
15:06	1	A. (Mr Duarte-Silva) Yes, we looked at this. Yes.	15:09 1	a loan taken out by your company?
15:06	2	Q. But you simply ignored the fact that	2	A. (Mr Duarte-Silva) It doesn't indicate much to me because
15:06	2 3	<ul><li>Q. But you simply ignored the fact that</li><li>A. (Mr Duarte-Silva) I'm making the point that saying the</li></ul>	2 3	A. (Mr Duarte-Silva) It doesn't indicate much to me because it's a quite small amount really in the grand scheme of
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49 (Pages 177 to 180)

15:11 1	Q. But it was in your second report that you put forward	15:13 1	be a going concern, really, is in its market value and
2	the fact it was able to obtain financing as a suggestion	2	willingness to invest in the company and so on. And
3	that this was an indication of the company's financial	3	we've seen that they could raise almost £30 million from
4	performance.	4	external shareholders, residual claimants. They have no
5	A. (Mr Duarte-Silva) And the company was able to obtain	5	claim, no collateral, nothing, and have just invested
6	financing, as I've been telling you, through the line of	6	£30 million into this company, in the middle of the
7	credit, and through even raising almost £30 million from	7	year. And you're telling me that at the end of the
8	external shareholders. So yes, they were able to. And	8	year, there was a going concern? I find that wholly
9	you're pointing me to some personal guarantees in	9	irrelevant to whether, at the time of the ORR
10	a small loan of, I don't know, \$2 million or something.	10	transaction, they were in dire financial straits.
11	Q. Okay, let's turn to page 34 of the PDF. While that's	11	And, even if they were, they could have shopped
12	happening, you've placed a lot of emphasis this	12	around.
13	afternoon on the fact that there was this line of	13	Q. So your position is the fact that they may have been
14	credit. Why was that not raised in your second report	14	able to raise money in the middle of the year, but
15	as the main reason, or any reason, as to why you didn't	15	six months later or so they are facing a going concern
16	believe San Leon was in a dire financial position?	16	risk, is irrelevant to the question of whether the
17	A. (Mr Duarte-Silva) I would have to check that in my	17	company was in a good or bad financial position?
18	second report, if you would like.	18	A. (Mr Duarte-Silva) If the company was in such dire
19	Q. We can go to it in a moment, but it is not mentioned at	19	straits, I find it hard to believe that they would have
20	all in there. Is there a reason why?	20	been able to raise that amount from external
21	A. (Mr Duarte-Silva) I thought it was mentioned. I'd have	21	shareholders, a few five months later.
22	to look. There's no reason why it wouldn't be	22	Q. I think, would you agree, however, that the fact that
23	mentioned.	23	we're having all of these discussions and as you have
24	Q. If we look at this page now on the right-hand side, if	24	yourself acknowledged, you would need to know more about
25	we can scroll up a little bit, there's an item called	25	a lot of these things, and presumably we would need to
	Page 181		Page 183
	1 450 101		1 450 105
15:12 1	"Going concern risk"; do you see that? And it says:	15:15 1	also know more about exactly the circumstances in which
15:12 1 2	"Going concern risk"; do you see that? And it says: "There are a number of assumptions underlying the	15:15 1 2	also know more about exactly the circumstances in which that funding was raised that you refer to that we
			-
2	"There are a number of assumptions underlying the	2	that funding was raised that you refer to that we
2 3	"There are a number of assumptions underlying the group's cash flow projections which indicate the existence of a material uncertainty which may cast significant doubt on the group and the company's ability	2 3	that funding was raised that you refer to that we simply cannot, today, know for sure what position San
2 3 4	"There are a number of assumptions underlying the group's cash flow projections which indicate the existence of a material uncertainty which may cast significant doubt on the group and the company's ability to continue as a going concern."	2 3 4	<ul><li>that funding was raised that you refer to that we simply cannot, today, know for sure what position San Leon really was in at that time?</li><li>A. (Mr Duarte-Silva) We don't need to know more. The shareholders that invested in the company are the proof.</li></ul>
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15:16 1	Q. In asserting a value based on this I'm going to move	15:19 1	scenario the Claimant would have owned 25%.
2	on from these accounts if you had a question?	2	Q. Yes, and that's on the basis that a transaction such as
3	MR DRYMER: I just want to be clear. I understand your	3	Gulf Shores or Akard or something equivalent would have
4	point about dire financial straits. You're treating	4	resulted in a 25% share to Discovery?
5	this as though it's a binary question: dire/not dire.	5	A. (Mr Acklam) I believe the wording was that some
6	I think the suggestion is well, I don't know what	6	investment would have been available and the Claimant's
7	counsel will tell us the suggestion is in due course,	7	share would have been 25%.
8	but let me put it to you that the suggestion is that the	8	Q. But at the time of the ORR sale it's accepted that that
9	company was in less than ideal financial straits, or was	9	hadn't yet happened. They still had a 50% share.
10	facing certain financial difficulty, something a lot	10	A. (Mr Acklam) At the time of the ORR sale the Claimant
11	more nuanced than dire or not dire, and that these	10	owned 50%. But our valuation is not at the date of the
12	factors that counsel is pointing up are indications of	12	ORR sale. The relevant valuation dates for our analysis
13	these somewhat difficult financial straits.	13	are at the ex-ante valuation date in June 2018, and at
14	Do you accept that more nuanced description, or	14	the ex-post valuation date, which our latest ex-post
15	would you still say it's not relevant to a consideration	15	valuation date is October 2023. On both of those dates
16	of the financial strength of the company at the time of	16	in the but-for situation the Claimant only owns 25%.
17	the sale of the royalty?	17	Q. And so if you are assessing value based on that 25%
18	A. (Mr Duarte-Silva) I believe it's more nuanced than just	18	share on those two dates, would it not be more
19	binary. I believe that I am putting the emphasis in	19	appropriate to use a transaction that took place after,
20	that term because in that extreme condition we could	20	or at least resulted in Discovery reducing its interests
21	think of a company selling such a valuable asset,	21	in that way, rather than one prior to it?
22	according to the Claimant, for just £130,000. That's	22	A. (Mr Acklam) I don't believe the adjustment from 50% to
23	why I'm putting the emphasis there, because only in that	23	25% is controversial. So I don't believe it makes
24	situation could we start to think of that.	24	a difference, all else being equal.
25	MR DRYMER: That's the point. Only in what you in a dire	25	Q. In respect of the other two transactions, Gulf Shores
	Page 185		Page 187
15:18 1	financial circumstance could you conceive of a fire sale	15:20 1	and Akard, these took place in March and October 2015;
15:18 1 2	financial circumstance could you conceive of a fire sale of the magnitude that is being suggested; is that	15:20 1 2	and Akard, these took place in March and October 2015; right?
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15:22 1	that date have added value, which I appreciate you do	15:25 1	optimistically thinks this is always worth, and the
13.22 1	not accept, based on Dr Longman's assessment, it is	13.25 1	market is telling him: you're wrong, you're dead wrong.
3	likely that if those had added value, that those	3	Q. But isn't this, as you say, an estimate of what the
4	transactions would no longer be appropriate; is that	4	person who is looking at this thinks this would be worth
5	correct?	5	at the time?
6	A. (Mr Acklam) I don't think that's correct, no. I don't	6	A. (Mr Duarte-Silva) Yes. This person is wrong. The
7	think "no longer appropriate" is a correct analysis for	7	market is telling them: you're wrong.
8	that.	8	Q. But you make no reference to this valuation in your
9	Q. So if the analyses that took place after those	9	report, do you?
10	transactions added value to the licence areas, you	10	A. (Mr Duarte-Silva) To which valuation?
11	consider it would still be appropriate to use the	11	Q. Or, rather, to this briefing profile?
12	transactions before that date which had a lower value?	12	A. (Mr Duarte-Silva) I didn't think it was relevant at all.
13	A. (Mr Acklam) The transactions before that date could	13	I don't see how this would be relevant to our opinion.
14	potentially still indicate a fair market value after	14	Q. If we turn now to look at the alternative valuations
15	that date, if there was any evidence or quantification	15	based on what you've described as comparable companies,
16	as to whether or not any value had been added.	16	you've conducted this on an ex-ante basis using your
17	So it would be possible to adjust those transactions	17	ex-ante date of 7 June 2018, and an ex-post basis of the
18	if it were the case that any value had been added by	18	date of the award, although, as you mentioned in your
19	work done.	19	second report, at the moment that is 31 October 2023;
20	Q. Could we please turn to Exhibit C-247. This is	20	yes?
21	a Macquarie Equities Research briefing paper on Aurelian	21	So if we could turn up your first report, please, at
22	published in April 2010; do you see that?	22	paragraph 64. That's on page 20. (Pause)
23	A. (Mr Duarte-Silva) Yes.	23	You say here that you considered eight potential
24	Q. If we turn to page 2, at figure 1 there is a breakdown	24	companies for your valuations, yes?
25	of the price per share attributable to different assets;	25	A. (Mr Duarte-Silva) Yes.
	Page 189		D 101
	rage 109		Page 191
15:23 1	do you see that?	15:26 1	O. And then you proceed to consider the ex-ante approach
15:23 1	do you see that? A. (Mr Duarte-Silva) I do.	15:26 1 2	Q. And then you proceed to consider the ex-ante approach and then two pages over, page 22, you have a graph which
2	A. (Mr Duarte-Silva) I do.	2	and then two pages over, page 22, you have a graph which
2 3	<ul><li>A. (Mr Duarte-Silva) I do.</li><li>Q. And you will see that 19p per share has been attributed</li></ul>		and then two pages over, page 22, you have a graph which sets out the position for seven of those companies;
2 3 4	<ul><li>A. (Mr Duarte-Silva) I do.</li><li>Q. And you will see that 19p per share has been attributed to the Smilno prospect; yes? I know it's quite small,</li></ul>	2 3	and then two pages over, page 22, you have a graph which sets out the position for seven of those companies; correct?
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15:27		15:30 1	Q. And so in using just one company in this way, would you
2	6 61 9	2	agree that it's even more important to ensure that the
	23	3	assets themselves are actually comparable?
2		4	A. (Mr Duarte-Silva) They were deemed comparable by the
4		5	company itself.
6		6	Q. Well, the group of companies that you're referring to
1	5	7	may have been deemed comparable for a particular
8	• • • • •	8	purpose, but if we're looking here at comparing one
ç		9	company only, surely it is important to ensure that the
10		10	assets of that company are actually comparable, isn't
1		11	it?
12	2 do you understand that?	12	A. (Mr Duarte-Silva) The company defined each of those
13	A. (Mr Acklam) I don't remember the exact quotation, but	13	eight companies as comparable, and then we used the one
14	I believe there was somewhere in Mr Howard's report	14	that had prospective resources in the reserves. Just
1:	where he said it would be absurd to assume that there	15	like Mr Howard defended should be done. Except he made
10	would be anything other than prospective resources on	16	a mistake with Cub Energy, instead of ADX.
1'	an ex-ante basis.	17	Q. And you've calculated a dollar per boe value based on
1	Q. But that's on the basis of his ex-ante, which was before	18	the unrisked volumes that ADX had of prospective
19	the but-for scenario. He's not using your date of	19	resources; correct?
20	7 June 2018, is he?	20	A. (Mr Acklam) We've calculated a dollar per barrel value
2	A. (Mr Acklam) I'm not aware of what ex-ante date Mr Howard	21	on the prospective and contingent resources.
22	2 is using.	22	Q. But the prospective resources would have been unrisked;
2.	B Q. But if that was in his first expert report, that was	23	correct?
24	prior to you having set out your date of 7 June 2018?	24	A. (Mr Acklam) I can't recall off the top of my head, I am
2:	5 A. (Mr Acklam) Yes well, potentially, although I don't	25	afraid.
	D 102		D 105
	Page 193		Page 195
15:29	think I've actually seen the ex-ante date which	15:31 1	Q. So is it the case that you don't know what you have used
15:29	-	15:31 1 2	Q. So is it the case that you don't know what you have used to perform your calculation?
	Mr Howard is using to make that assumption.		
2	Mr Howard is using to make that assumption. Q. So, in fact, when you're making a comparison and saying	2	to perform your calculation?
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15:38 1	scenario, so they're still worth less than reserves.	15:41 1	A. (Mr Duarte-Silva) We didn't have to. We have the SPE
2	Q. But if they've already been discounted to take into	2	paper instead of Mr Howard's calculations. And like
3	account the geological chance of success, aren't you	3	I said, even that is conservatively high if you consider
4	applying a double discount to then also discount them	4	that the Australian Stock Exchange doesn't allow even
5	further, because they've already been taken into account	5	forecasting based on it.
6	that they are prospective resources?	6	We presented to Mr Howard an academic paper showing
7	A. (Mr Duarte-Silva) That requires examining the discount	7	that they're not even factored in market valuations of
8	that we're applying to determine if that discount is	8	oil companies. You can even look on an ex-ante basis.
9	double-counting or not. What we have seen is we have	9	Look at the ADX multiple, just on contingent and
10	applied a 5-10% discount, based on the SPE paper that we	10	prospective, and compare it to the multiple on the other
11	cite.	11	companies that have reserves. It's less than 5%.
12	Q. But that's a 5-10% discount that you've applied after	12	So these things are highly uncertain. There's very
13	the geological chance of success has already been	13	little value. We're applying a 5-10% discount. That's
14	applied. So you are applying two levels of discount	14	not really pessimistic.
15	here. You haven't applied the first, that's been	15	Q. Well, I put it to you that that is a double discount and
16	applied to the volumes that are used, but you are then	16	is inappropriate. I understand you don't accept that,
17	applying a second discount?	17	but I'll put it to you that that's what you've done.
18	A. (Mr Duarte-Silva) That's your view.	18	I'd like to look now, finally, at the Claimant's
19	Q. Can we turn, please, to the second report of Mr Howard.	19	alternative claim for sunk costs. And paragraph 70 of
20	On page 26.	20	your second expert report, please, this is on page 23.
21	So here Mr Howard has shown in his table that in	21	So you state here that:
22	fact, taking into account the GCOS that has already been	22	" the evidence used to substantiate this claim
23	applied in the P50 scenario is the equivalent of having	23	is unreliable."
24	applied a 9% RAF factor, i.e. a discount of over 90%; do	24	As you mentioned in your presentation earlier.
25	you see that? It says at the bottom:	25	And you state:
	Page 201		Page 203
	1 466 201		1 420 200
			Ũ
15:39 1	"RAF equivalent (P50 Scenario)".	15:43 1	" we understand that the annual reports submitted
15:39 1	"RAF equivalent (P50 Scenario)". A. (Mr Acklam) Sorry, could you expand a little bit on what	15:43 1 2	-
	-		" we understand that the annual reports submitted
2	A. (Mr Acklam) Sorry, could you expand a little bit on what	2	" we understand that the annual reports submitted in evidence are not audited, but simply sent to the
2 3	A. (Mr Acklam) Sorry, could you expand a little bit on what we're looking at here?	2 3	" we understand that the annual reports submitted in evidence are not audited, but simply sent to the Ministry of Environment."
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15.44 1	O Dut you would have no meson to believe that these	15.46 1	MD DDVMED. There's just no healt up?
15:44 1	Q. But you would have no reason to believe that those	15:46 1	MR DRYMER: There's just no back-up?
2	financial statements, which had been prepared by	2	
3	external accountants, of those firms would be incorrect,	3	5
4	do you?	4	1 / 5
5	A. (Mr Duarte-Silva) Without auditing, there's no guarantee	5	(3.47 pm)
6	that those companies did anything but organise the	6	5
7	numbers that they received and put them into a financial	7	Q. I just have one question on re-direct, and this is to
8	statement. They just put the numbers together. There's	8	
9	no signing at the end: this is audited. Meaning there's	9	
10	no verification these numbers are accurate.	10	
11	MR NEWING: No further questions. Thank you.	11	•
12	MR DRYMER: Is there any indication that they're inaccurate?	12	
13	A. (Mr Duarte-Silva) No. They just received the numbers	13	
14	and put them together.	14	
15	MR DRYMER: And when you say that the calculation is	15	
16	unreliable, remind me, please, what the standard for	16	
17	reliability is that you apply, that you use?	17	
18	A. (Mr Duarte-Silva) For sunk costs to have been incurred	18	5
19	there should have been disbursement of amounts. There's	19	•
20	no indication they were disbursed.	20	THE PRESIDENT: Thank you.
21	I would expect, if the evidence is going to be based	21	(3.48 pm)
22	on financial statements, for those financial statements	22	Questions from THE TRIBUNAL
23	to be audited. They are not audited. Meaning they're	23	THE PRESIDENT: I have questions, which in large part have
24	not verified for accuracy.	24	been asked, about the sunk cost reliability. There's
25	MR DRYMER: You know this as well as anybody; this is the	25	three categories of sunk costs claimed, right: there is
	D 207		D 207
	Page 205		Page 207
15:45 1	sort of argument that occurs regularly in this sort of	15:48 1	the amount paid to acquire AOG. That is not disputed.
15:45 1 2	context.	15:48 1 2	Or is that disputed?
	context. Is there a standard for reliability or		Or is that disputed? A. (Mr Duarte-Silva) We are not disputing that.
2 3 4	context. Is there a standard for reliability or unreliability? I don't know the answer to that	2	Or is that disputed? A. (Mr Duarte-Silva) We are not disputing that. THE PRESIDENT: No. Then the second one is the payment for
2 3	context. Is there a standard for reliability or unreliability? I don't know the answer to that question. I'm asking you as an expert.	2 3	Or is that disputed? A. (Mr Duarte-Silva) We are not disputing that.
2 3 4	context. Is there a standard for reliability or unreliability? I don't know the answer to that question. I'm asking you as an expert. A. (Mr Duarte-Silva) In almost all cases where in	2 3 4	<ul><li>Or is that disputed?</li><li>A. (Mr Duarte-Silva) We are not disputing that.</li><li>THE PRESIDENT: No. Then the second one is the payment for the royalty in January 2015. That is not disputed either, or is it?</li></ul>
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15:50 1	No, so I think we need to briefly discuss now what	15:53 1	commulations access and an under Article 20 of the Coology
	· · ·		1 5 65
2	we do tomorrow. There's a few points that the Tribunal	2	
3	would like, indications that the Tribunal would like to	3	
4	give you.	4	
5	First, there's a question and it's a simple question	5	· · ·
6	for the Respondent, but it's a clarification: your	6	
7	request for relief, paragraph 737 of the Rejoinder, says	7	5 5 1 5
8	simply dismiss the claims. Do you mean dismiss the	8	
9	claims as a matter of merit? I understand that you also	9	, S
10	5	10	· · · · · · · · · · · · · · · · · · ·
11	5 7 1	11	•
12	1 2 1	12	•
13	5	13	1 5 /
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22	1 5	22	5
23	e	23	
24		24	1
25	MR ANWAY: In addition, of course, to our request for costs.	25	courts in making these decisions. We're not here to
	Page 209		Page 211
15:51 1	THE PRESIDENT: That is in your request for relief.	15:56 1	decide on the domestic law issue of what type of a road
15:51 1		15:56 1	decide on the domestic law issue of what type of a road this is. We're here to decide whether whatever the
	Absolutely.		
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2 3	Absolutely. Fine, so that is clarified, and we now have it in the transcript.	2 3	this is. We're here to decide whether whatever the state did was a breach of an international standard.
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15:58 1	Claimant's view on that, on the theory of the case; how	16:01 1 MR NEWING: 10.30 would be good with us.
2	do you make a case, that being the evidence? And it	2 MR ANWAY: I promise we won't be preparing slides, but yes,
3	would be good also obviously to hear from the Respondent	3 I think 10.30 would be helpful. A little extra time.
4	on the same point.	4 THE PRESIDENT: That's fine.
5	THE PRESIDENT: And of course the Claimant will also include	5 MR NEWING: Thank you very much.
6	the evidence of the Claimant's expert on this issue.	6 THE PRESIDENT: No objection from this side.
7	Professor Števcek was the	7 Good. Is there anything else that you wish to
8	PROFESSOR SANDS: Yes.	8 raise?
9	THE PRESIDENT: Good.	9 MR NEWING: No, not from my side. Sorry, Mr Tushingham is
10	So we had said an hour. That has been reserved for	10 sitting behind me so just making sure I have taken his
10	tomorrow. Maybe you don't need an hour. It's up to	11 view.
11	you. And as we mentioned already yesterday, we don't	12 MR ANWAY: Nothing from Respondent.
12	look for slide presentations. If it's helpful to you to	13 THE PRESIDENT: Nothing from your side.
13	have a few slides, of course you're not barred from	14 Then I wish everyone a good evening and we'll see
14	doing it.	15 each other tomorrow at 10.30.
15	Should we start at 9.30, as we had scheduled, then	16 MR NEWING: Thank you very much.
10	first hear the Claimant, and then hear the Respondent,	17 THE PRESIDENT: Thank you.
17	and then wrap up with procedural issues?	18 (4.02 pm)
18	And I can say that what you have mentioned this	<ul><li>(4.02 pm)</li><li>(The hearing adjourned until 10.30 am the following day)</li></ul>
20	morning about no procedural no post-hearing briefs is	20
20 21	fine with the Tribunal. And the deadlines for the	20
21	corrections of the transcript and the marking	22
22	confidential of the recording and the transcript is, of	22 23
23 24	course, fine, and costs statement as well. We didn't	25 24
24 25	see any other point with respect to further process that	24 25
23	see any other point with respect to further process that	25
	Page 213	Page 215
16:00 1	we need to address.	
16:00 1	So that would be the programme for tomorrow. If	
23	there's anything that you would like to raise now, or	
5 4	any clarification that you need.	
4	PROFESSOR SANDS: Just to come in on this issue, it was	
5	Professor Števcek who made that statement, my mistake,	
7	not Professor Fogaš. It was the Claimant's expert.	
8	THE PRESIDENT: So your reference was Števcek.	
8 9	PROFESSOR SANDS: Števcek, yes, Day 4, pages 33-35.	
9 10	My apologies.	
10	MR DRYMER: Is the hour total, or half hour each?	
11	THE PRESIDENT: We had said an hour each.	
12	MR DRYMER: Okay.	
13	THE PRESIDENT: So maybe we stick to the rules that we have	
14	set, unless you want to change them, and that's by	
15	agreement.	
10	MR NEWING: I don't intend to change that rule, and this is	
17	something I haven't yet had a chance to raise with the	
18	other side. But on the basis that we're not having	
19 20	post-hearing briefs, we were wondering whether we might	
20 21		
	be able to start a little later tomorrow, to just give	
22	ourselves a bit more time in the morning to finalise any	
23	preparation, on the basis that it's only an hour each	
24	anyway?	
25	THE PRESIDENT: Yes. 10.00, 10.30?	
	Page 214	

#### Discovery Global LLC -v- Slovak Republic ICSID Case No. ARB/21/51

# Tuesday, 6 February 2024

[					
Α	198:12 203:16	60:12 68:21 82:16	194:19 195:16,18	188:8,10,15,16,18	90:16 93:12 97:16
AA-002 99:15	accepted 104:8 163:3	114:5	196:8 198:3,11,16	188:20 214:16	128:9
AA-037 45:15	187:8	across 7:14 8:25 96:13	203:9	agreements 25:14	analogues 89:17 90:8
AA-11 8:13	accepting 27:19 104:1	106:13 116:14	AFE 92:9 102:9	Akard 58:23 62:9	analyse 177:15
AA-37 47:2	accepts 171:25	117:12 151:20	AFEs 38:19 102:13	149:9,11,20,22,25	analysed 9:3,6 69:10
abbreviate 40:4	access 37:20 38:1,2,14	173:24	103:18 104:4,9	150:3,4 162:10,25	94:14 152:2
ability 51:10 80:20	54:19 211:1	Act 211:2	105:1	163:1 187:3 188:1,5	analyses 112:11 166:2
114:12 163:10	accordance 4:17,20	actions 21:4	affect 164:6 165:2	188:8,10	188:25 189:9
182:5,8	56:11,15 87:11	active 114:20	affected 51:11 148:4	ALEXANDER 2:5,10	analysis 16:22 17:20
able 36:15 38:20	145:3,6,9 161:7	activities 3:4 12:24	afraid 195:25 196:4	<b>alive</b> 14:16	18:11 19:18 25:10
51:13 61:4,8 72:9	according 152:19	138:17	199:18	alleged 21:4 154:17	62:21 64:20 65:16
78:20 104:2 114:10	176:3 184:16	activity 96:19 112:20	Africa 5:14	170:15	67:5,6 75:5 76:8
115:6 120:14 121:4	185:22	actor 173:6	after 20:16 60:13	allocate 145:25	77:12 84:23 92:10
122:7,8 123:20	account 5:22 12:14	actual 21:13 63:12	82:16 129:21 145:4	allocated 119:11	92:16 93:10,19,20
166:1 176:20	23:4 36:13,16 44:2	112:20 163:24	165:20 169:14,18	135:17 145:14	94:11,17 95:1,5,19
179:17 181:2,5,8	51:2 89:19 108:12	172:23	171:5 176:11	allow 19:25 120:10	95:21 97:7 105:3
183:14,20 214:21	122:24 129:21	actually 17:20 20:13	187:19 188:25	197:11,13 203:4	119:17 129:14
about 1:13 5:6 10:25	143:2 164:5,8	22:20 23:7 26:21	189:9,14 198:9,9	allowed 167:18	133:6 134:24 135:6
15:22 17:7 23:13	196:20 197:2	33:24 43:23 50:8	201:12	allows 18:1	135:11 136:2
	200:10 201:3,5,22	53:21 61:8 62:2,9	afternoon 144:5 146:4	all-time 97:8	138:12,13 139:16
25:10 30:9 32:3 33:19 36:22 38:22	202:6	63:17,23 65:7 67:4	157:11 181:13	ALMEIDA 1:22	139:17 141:13
40:12,23,24 42:3,4	accountants 205:3	73:12 75:7 89:8	afterwards 60:16	14:10	152:9 161:4 164:11
40:12,23,24 42:3,4 42:5 47:18 49:7,13	accounted 94:17	91:25 93:3 96:24	again 14:6,12 22:12	almost 76:16 148:24	164:16,21 165:5,15
42:5 47:18 49:7,13 50:3,5 51:3,7 52:2	167:9	103:6 105:18	30:11 44:16 62:3,9	166:11 181:7 183:3	167:13 168:13
· · · ·	accounting 204:22	106:13 107:24	62:16 64:22 67:11	206:6	170:1,3 187:12
59:6 65:9 67:3 68:5	accounts 61:3 185:2	113:23,24 121:14	90:6,14 91:1 92:8	alone 103:23 131:11	189:7 192:23
68:21 69:3,21,22,25	accumulated 121:19	126:25 128:21	92:16,23 94:4,12	133:24	194:10
73:13,15 80:23 86:2 88:21 91:19 94:15	accumulation 21:13	131:21 149:20	95:3,15,17 96:16,19	along 33:1 54:15	analyst 190:25
	accumulations 98:11	161:7 165:7 173:14	103:3 118:24	59:15	Anne-Marie 1:24
95:19,22 97:22	accuracy 116:17	175:14 188:9,12,18	119:16,25 120:15	Alpine 153:24	announcements 71:15
103:7 119:25 127:12 128:25	205:24	193:8 194:1 195:3	120:25 121:8 122:2	Alpine's 153:24	annual 61:3,6 80:10
	accurate 186:3 205:10	195:10 206:9,23	122:23 123:1	already 37:20 49:4,5	80:21,25 146:13
132:18 140:5 147:2	achieve 115:1	add 138:1 166:4	124:15 130:1,6,6	54:17 65:2 109:23	154:5,8 179:3 204:1
148:23 150:8,10	achieved 122:20	added 70:13 165:10	132:11 135:20	146:24 155:10	another 1:25 19:15
153:9 154:22	Acklam 4:2,4 144:15	165:16,20 166:3	149:15 152:10	160:23 167:25	79:1 94:15 97:1
155:16 157:1 161:6	144:18,19,21,25	189:1,3,10,16,18	155:19 160:23	199:1 200:22 201:2	122:14 123:23
163:17,24 164:22	145:5 146:21	addendum 58:14	162:20 179:16	201:5,13,22 202:6,8	156:7,7 167:5
166:10 170:22	147:14 148:10	65:22	182:11 188:20,25	213:12	176:17 211:4
171:20,22 172:1,13	157:18 162:12,15	adding 210:22	194:8 198:18 200:7	alright 143:12 146:18	Anshof 13:17
172:17,18,24	163:13 164:15,21	addition 10:15 90:16	against 9:11 63:9 97:5	179:2	answer 51:18 119:12
175:14 176:2 180:6	164:24 165:18	166:6 209:25	97:13 110:1 117:20	alternative 80:19	145:13,18,18
180:6,20 182:7,14	168:10,15,22 169:1	additional 27:13	117:21 118:9	106:9 148:17	160:22 164:1
182:17,18,23	169:7,22 170:2,8	28:12 80:23 81:15	121:20 128:20	191:14 203:19	171:22 206:4
183:24 184:1 185:4	171:13 186:19,24	91:10 108:12 111:9	186:6 197:17	although 10:7 14:1	212:18,23
186:10 192:16	187:5,10,22 188:3,7	166:3 168:12	age 11:2	62:11 89:19 105:15	answered 86:5 160:23
197:7 198:1,19,20	188:16,23 189:6,13	169:25 170:3	agenda 209:13	131:18 139:11	anticipate 33:20
207:9,10,24 208:8,9	192:5,10,18,20,25	address 1:18 17:10	aggressive 96:16	151:20 162:10	anticipates 30:14 35:4
211:7,14,18 213:20 above 8:15 12:21	193:4,13,21,25	53:12,12 160:9	ago 60:25 163:21	168:24 169:1	antiformal 99:18
above 8:15 12:21	194:8,14,17,20,25	210:12,18 214:1	164:3 165:25	191:18 193:25	101:4
13:10 abashtah: 52:12	195:20,24 196:3,7	addressed 50:7	188:21	always 130:11 142:10	ANWAY 2:9 1:23
absolutely 52:12	196:15,21 197:1	adequately 50:7	agree 39:1 82:9 102:3	182:17 191:1	2:15 3:3 209:12,17
104:21 109:8	199:17,21 200:1,6	adjacent 94:19	102:14 111:11,15	amalgam 31:17	209:25 215:2,12
142:18,18 210:2	200:11,16,25 202:2	adjourned 144:10	113:11 122:4,20	amount 17:21 22:10	anybody 205:25
absurd 193:15	202:10 207:8,12,15	215:19	135:4 137:23,24	33:3,24 38:9 60:12	anymore 15:21
academic 203:6	207:17 208:22	adjust 79:4 189:17	138:13 139:15	64:10 116:4,5,10,13	anyone 72:21 78:9,13
accept 28:16 31:12	acknowledge 124:23	adjusted 64:19 78:1	140:3 142:15 166:4	124:19 128:1	172:20
43:14 73:3 90:11	acknowledged 154:6	79:9	166:5 167:5,8	129:19 143:22	anything 43:20 49:8
103:3 107:23 108:2	183:24	adjusting 78:25	168:19 172:2	149:2 153:21,22	75:9 154:16 166:4
111:22 112:19	acknowledgments	adjustment 65:1,6	174:14,17 183:22	180:3 183:20 208:1	179:24 184:20
114:4 120:5 121:3 126:2,14 128:13	107:17	187:22 200:15,19	190:14 195:2 196:5	amounts 17:17,22	193:16 196:14
· ·	acquire 91:16 153:21	200:20 202:9	197:14 198:12	33:25 127:1 148:19	205:6 212:17 214:3
131:6 157:22 160:15,18 162:1,23	208:1	adjustments 152:4	200:13	153:20 154:12	215:7
163:19 164:10,16	acquired 59:21 60:4	adopting 74:16	agreed 2:5,11 3:6,7	156:4 174:23 175:3	anyway 122:12
	82:17 91:12 114:9	advanced 53:25	103:13 163:7 173:2	175:16 176:5	200:21 214:24
164:25 165:24	114:24 115:5	ADX 63:13,16,21	agreement 2:1 28:9	204:14 205:19	anyways 206:15
167:14 169:24	131:11 169:15,18	64:21 150:18,19,23	149:9,11 162:25	ample 199:8	anywhere 110:25
173:21 185:14	acquisition 59:13	151:4,7 161:13	163:2,3,5,14 188:5	analogue 89:14,24	165:19
189:2 194:11	-			- ·	
	•				

Anne-Marie Stallard for Trevor McGowan Page 1

#### Discovery Global LLC -v- Slovak Republic ICSID Case No. ARB/21/51

Tuesday, 6 February 2024

AOG 25:13 28:2,25	71:10	assess 62:2 99:24	116:6 119:18	171:15 192:20	153:6 159:22
30:9,14,18,20 69:6	arbitrations 206:7,9	104:19 106:22	120:12 121:21	193:21	169:24 170:9
69:8,15,18,19	ARB/21/51 1:3	107:24 143:10	122:7 123:2 130:17	axis 63:9	171:18 186:21
	area 8:1 18:3 45:9	160:13		axis 03.9	
109:19,25 110:5,16			137:3,6 141:12		187:2 191:16,17
168:8,13,21 169:6	47:13 48:1 49:5,25	assessed 64:14 97:4	Atkinson's 5:20 57:20	B	192:7,7 193:17,18
169:14,18 192:8	57:15 58:1 61:23,25	105:15,18 108:6,25	75:7 91:13,24 92:10	<b>b</b> 46:18 117:24 135:13	194:5,9,18 196:8,19
194:18 204:6 208:1	62:4,17 63:5 89:9	133:9,13 136:12	94:8 98:20 100:23	135:21 136:15,15	197:23 200:7 203:8
AOG's 29:18 153:23	90:2,10,20 92:24	180:22	107:4 117:1 118:23	back 15:17 20:16	204:8 212:19,23
204:11	93:1,2,2,15 100:17	assessing 111:10	120:6 132:4,10,10	23:12 26:16 30:25	214:19,23
apart 80:8 113:21	100:18 101:1	137:1 186:11	133:4,6 138:11	31:5 33:21 34:12	basket 85:14
apologies 37:13 44:6	107:19 111:6,18,24	187:17	attached 154:8 180:22	36:21 58:22 60:6	Bayfield 5:13
79:12 214:10	112:2 113:16	assessment 16:16	attempted 149:7	65:9 67:4 70:20	bear 5:25 9:22 36:19
apologise 186:7,9	114:20 116:11,14	27:22 57:21 59:3,8	162:17,21 188:3,4	73:20 101:11 105:5	63:2 85:6
apparent 8:18 65:17	116:18,23 117:12	61:20 62:17 94:8,10	attributable 189:25	109:14 115:20	become 27:14 63:6
88:8	117:23,24,25	98:16 101:14 105:8	attributed 190:3	119:3 122:17 135:1	88:8
apparently 30:7	118:10 119:5	105:9 106:10,19	attribution 210:16		becomes 59:9 129:17
appear 61:8,24 64:25	131:23 139:8,18,20	109:9 110:7,16,18	audio 2:17,17	153:3 168:1	129:18
			'	background 56:24	
83:5 139:25 148:16	140:4 165:13	110:22 133:12	audit 199:3	88:4	<b>before</b> 1:10 1:10 2:3
APPEARANCES 2:1	areas 5:25 8:18 16:23	140:4,7 161:2,2	audited 154:6 204:2	back-up 207:1,2	12:8,9 31:10 38:4
appeared 61:10,23	17:13 19:2 42:19	165:11,17 172:5	205:9,23,23	bad 183:17	38:17 44:13 52:19
113:20 184:9	91:6 93:5 98:12,16	189:2 194:16 200:8	auditing 205:5	Baker 204:20	54:23 55:19 69:5
appendices 156:23,25	100:22 104:20,23	assessments 62:14	auditor 80:14	balance 7:3,11,13,22	73:13 88:11,24
appendix 106:24	106:14 110:23	107:15 110:19	auditors 61:11	8:8,10 9:3,6 14:21	89:22 91:12 94:19
108:8 147:1 156:18	111:2,5 112:19,21	asset 58:19 59:6,20	August 69:22	126:21	111:18 127:20
apples 197:19,19	113:6 116:7,14	60:4 77:19,24 81:24	Aurelian 153:21	balances 77:20 175:13	131:7,11,14 145:11
applicability 7:11	117:21 118:1,4,10	81:25 82:13 83:7,8	168:23,25 169:1,16	bara 32:14	146:6 150:2 153:14
applicable 14:21	118:14,25 119:1	83:9 85:4,9 165:20	189:21	barely 208:24	158:10 161:3
109:1,2,2	120:10,19,24 121:7	167:15 180:22	Australian 71:13 72:1	barred 213:14	163:15,19 166:24
applied 200:23 201:10	125:24 126:25	185:21 198:25	72:20,22,23 73:4	barrel 150:25 151:11	166:25 170:21
201:12,14,15,16,23	133:18 139:4,7,9	assets 57:4 85:7,14	197:10 203:4	151:23 152:13,17	171:1 178:7 189:12
201:24 202:8,20	140:4 164:11,17	152:5 157:2,23,24	Austria 13:18	195:20 200:17	189:13 193:18
applies 154:17	186:18 189:10	160:2 162:6 189:25	authorisations 16:6		206:16
apply 62:8 65:1	210:10,12	195:3,10 198:4,12	35:10	barrels 10:5 12:13	begin 1:10 28:2 52:10
155:19 205:17	argues 155:23	assigned 106:5 134:15	available 10:7,15	63:10,22 64:17	beginning 107:3
applying 78:2 84:13	arguing 155:24	Assistant 1:23	46:25 59:9 62:7	95:20,22 123:15,18	156:17 182:18
applying 70.2 04.15					
				128:3 129:4 146:15	
201:4,8,14,17	argument 154:22	associated 13:25 30:6	81:16 93:10 98:23	146:16,17	begins 32:4
201:4,8,14,17 203:13	<b>argument</b> 154:22 155:7,21 206:1	<b>associated</b> 13:25 30:6 30:13,15,21,24	81:16 93:10 98:23 105:7 112:9 114:5	146:16,17 <b>barriers</b> 43:24	<b>begins</b> 32:4 <b>behalf</b> 97:23 157:12
201:4,8,14,17 203:13 <b>appraised</b> 63:4	argument 154:22 155:7,21 206:1 arguments 148:20	<b>associated</b> 13:25 30:6 30:13,15,21,24 33:20 34:7 35:5	81:16 93:10 98:23 105:7 112:9 114:5 119:11 121:9,12,13	146:16,17 <b>barriers</b> 43:24 <b>base</b> 101:2,4 173:16	<b>begins</b> 32:4 <b>behalf</b> 97:23 157:12 <b>behind</b> 136:22 215:10
201:4,8,14,17 203:13 appraised 63:4 appreciate 55:5	argument 154:22 155:7,21 206:1 arguments 148:20 arise 37:2	<b>associated</b> 13:25 30:6 30:13,15,21,24 33:20 34:7 35:5 51:7,12,13 58:7	81:16 93:10 98:23 105:7 112:9 114:5 119:11 121:9,12,13 121:17,18 122:11	146:16,17 <b>barriers</b> 43:24 <b>base</b> 101:2,4 173:16 <b>based</b> 6:14 19:19 23:2	begins 32:4 behalf 97:23 157:12 behind 136:22 215:10 being 13:15 33:20,21
201:4,8,14,17 203:13 <b>appraised</b> 63:4 <b>appreciate</b> 55:5 137:23 189:1	argument 154:22 155:7,21 206:1 arguments 148:20 arise 37:2 around 32:12,18	associated 13:25 30:6 30:13,15,21,24 33:20 34:7 35:5 51:7,12,13 58:7 65:8	81:16 93:10 98:23 105:7 112:9 114:5 119:11 121:9,12,13 121:17,18 122:11 131:17 132:19	146:16,17 <b>barriers</b> 43:24 <b>base</b> 101:2,4 173:16 <b>based</b> 6:14 19:19 23:2 24:3 62:14,19 64:2	begins 32:4 behalf 97:23 157:12 behind 136:22 215:10 being 13:15 33:20,21 43:25 46:20,21
201:4,8,14,17 203:13 appraised 63:4 appreciate 55:5 137:23 189:1 210:21	argument 154:22 155:7,21 206:1 arguments 148:20 arise 37:2 around 32:12,18 52:21 61:23 85:2,3	<b>associated</b> 13:25 30:6 30:13,15,21,24 33:20 34:7 35:5 51:7,12,13 58:7 65:8 <b>Associates</b> 2:15 60:7	81:16 93:10 98:23 105:7 112:9 114:5 119:11 121:9,12,13 121:17,18 122:11 131:17 132:19 139:12,23 142:2	146:16,17 <b>barriers</b> 43:24 <b>base</b> 101:2,4 173:16 <b>based</b> 6:14 19:19 23:2 24:3 62:14,19 64:2 73:21 74:20 98:19	begins 32:4 behalf 97:23 157:12 behind 136:22 215:10 being 13:15 33:20,21 43:25 46:20,21 47:15,16 49:17 84:7
201:4,8,14,17 203:13 <b>appraised</b> 63:4 <b>appreciate</b> 55:5 137:23 189:1 210:21 <b>approach</b> 23:5 49:9	argument 154:22 155:7,21 206:1 arguments 148:20 arise 37:2 around 32:12,18 52:21 61:23 85:2,3 95:19 101:12	associated 13:25 30:6 30:13,15,21,24 33:20 34:7 35:5 51:7,12,13 58:7 65:8 Associates 2:15 60:7 74:17 144:20	81:16 93:10 98:23 105:7 112:9 114:5 119:11 121:9,12,13 121:17,18 122:11 131:17 132:19 139:12,23 142:2 148:18,22 166:14	146:16,17 <b>barriers</b> 43:24 <b>base</b> 101:2,4 173:16 <b>based</b> 6:14 19:19 23:2 24:3 62:14,19 64:2 73:21 74:20 98:19 101:2 102:4 107:5	begins 32:4 behalf 97:23 157:12 behind 136:22 215:10 being 13:15 33:20,21 43:25 46:20,21 47:15,16 49:17 84:7 84:8 88:9 95:16
201:4,8,14,17 203:13 appraised 63:4 appreciate 55:5 137:23 189:1 210:21 approach 23:5 49:9 68:13 71:3 137:10	argument 154:22 155:7,21 206:1 arguments 148:20 arise 37:2 around 32:12,18 52:21 61:23 85:2,3 95:19 101:12 124:12 127:19	associated 13:25 30:6 30:13,15,21,24 33:20 34:7 35:5 51:7,12,13 58:7 65:8 Associates 2:15 60:7 74:17 144:20 assume 37:15,19,22	81:16 93:10 98:23 105:7 112:9 114:5 119:11 121:9,12,13 121:17,18 122:11 131:17 132:19 139:12,23 142:2 148:18,22 166:14 187:6	146:16,17 <b>barriers</b> 43:24 <b>base</b> 101:2,4 173:16 <b>based</b> 6:14 19:19 23:2 24:3 62:14,19 64:2 73:21 74:20 98:19 101:2 102:4 107:5 114:15 132:25	begins 32:4 behalf 97:23 157:12 behind 136:22 215:10 being 13:15 33:20,21 43:25 46:20,21 47:15,16 49:17 84:7 84:8 88:9 95:16 102:10 103:3
201:4,8,14,17 203:13 appraised 63:4 appreciate 55:5 137:23 189:1 210:21 approach 23:5 49:9 68:13 71:3 137:10 146:23,24,25 147:3	argument 154:22 155:7,21 206:1 arguments 148:20 arise 37:2 around 32:12,18 52:21 61:23 85:2,3 95:19 101:12 124:12 127:19 139:8 183:12	associated 13:25 30:6 30:13,15,21,24 33:20 34:7 35:5 51:7,12,13 58:7 65:8 Associates 2:15 60:7 74:17 144:20 assume 37:15,19,22 38:3 78:8 124:25	81:16 93:10 98:23 105:7 112:9 114:5 119:11 121:9,12,13 121:17,18 122:11 131:17 132:19 139:12,23 142:2 148:18,22 166:14 187:6 average 8:7,11 9:1,16	146:16,17 <b>barriers</b> 43:24 <b>base</b> 101:2,4 173:16 <b>based</b> 6:14 19:19 23:2 24:3 62:14,19 64:2 73:21 74:20 98:19 101:2 102:4 107:5 114:15 132:25 147:3,5 148:2	begins 32:4 behalf 97:23 157:12 behind 136:22 215:10 being 13:15 33:20,21 43:25 46:20,21 47:15,16 49:17 84:7 84:8 88:9 95:16 102:10 103:3 114:10 115:6
201:4,8,14,17 203:13 appraised 63:4 appreciate 55:5 137:23 189:1 210:21 approach 23:5 49:9 68:13 71:3 137:10 146:23,24,25 147:3 150:11 152:11	argument 154:22 155:7,21 206:1 arguments 148:20 arise 37:2 around 32:12,18 52:21 61:23 85:2,3 95:19 101:12 124:12 127:19 139:8 183:12 arrangement 177:6,8	associated 13:25 30:6 30:13,15,21,24 33:20 34:7 35:5 51:7,12,13 58:7 65:8 Associates 2:15 60:7 74:17 144:20 assume 37:15,19,22 38:3 78:8 124:25 143:1 168:6 173:5	81:16 93:10 98:23 105:7 112:9 114:5 119:11 121:9,12,13 121:17,18 122:11 131:17 132:19 139:12,23 142:2 148:18,22 166:14 187:6 <b>average</b> 8:7,11 9:1,16 12:6 65:18 94:12	146:16,17 <b>barriers</b> 43:24 <b>base</b> 101:2,4 173:16 <b>based</b> 6:14 19:19 23:2 24:3 62:14,19 64:2 73:21 74:20 98:19 101:2 102:4 107:5 114:15 132:25 147:3,5 148:2 150:23 156:9	begins 32:4 behalf 97:23 157:12 behind 136:22 215:10 being 13:15 33:20,21 43:25 46:20,21 47:15,16 49:17 84:7 84:8 88:9 95:16 102:10 103:3 114:10 115:6 128:18 132:12
201:4,8,14,17 203:13 <b>appraised</b> 63:4 <b>appreciate</b> 55:5 137:23 189:1 210:21 <b>approach</b> 23:5 49:9 68:13 71:3 137:10 146:23,24,25 147:3 150:11 152:11 153:6 157:16 158:9	argument 154:22 155:7,21 206:1 arguments 148:20 arise 37:2 around 32:12,18 52:21 61:23 85:2,3 95:19 101:12 124:12 127:19 139:8 183:12 arrangement 177:6,8 177:9,16,19 178:4	associated 13:25 30:6 30:13,15,21,24 33:20 34:7 35:5 51:7,12,13 58:7 65:8 Associates 2:15 60:7 74:17 144:20 assume 37:15,19,22 38:3 78:8 124:25 143:1 168:6 173:5 193:15	81:16 93:10 98:23 105:7 112:9 114:5 119:11 121:9,12,13 121:17,18 122:11 131:17 132:19 139:12,23 142:2 148:18,22 166:14 187:6 <b>average</b> 8:7,11 9:1,16 12:6 65:18 94:12 124:19 128:2,22,24	146:16,17 <b>barriers</b> 43:24 <b>base</b> 101:2,4 173:16 <b>based</b> 6:14 19:19 23:2 24:3 62:14,19 64:2 73:21 74:20 98:19 101:2 102:4 107:5 114:15 132:25 147:3,5 148:2	begins 32:4 behalf 97:23 157:12 behind 136:22 215:10 being 13:15 33:20,21 43:25 46:20,21 47:15,16 49:17 84:7 84:8 88:9 95:16 102:10 103:3 114:10 115:6 128:18 132:12 133:5 142:5 154:13
201:4,8,14,17 203:13 <b>appraised</b> 63:4 <b>appreciate</b> 55:5 137:23 189:1 210:21 <b>approach</b> 23:5 49:9 68:13 71:3 137:10 146:23,24,25 147:3 150:11 152:11 153:6 157:16 158:9 159:5,7 160:21	argument 154:22 155:7,21 206:1 arguments 148:20 arise 37:2 around 32:12,18 52:21 61:23 85:2,3 95:19 101:12 124:12 127:19 139:8 183:12 arrangement 177:6,8 177:9,16,19 178:4 178:16 180:18	associated 13:25 30:6 30:13,15,21,24 33:20 34:7 35:5 51:7,12,13 58:7 65:8 Associates 2:15 60:7 74:17 144:20 assume 37:15,19,22 38:3 78:8 124:25 143:1 168:6 173:5 193:15 assumed 37:8 92:25	81:16 93:10 98:23 105:7 112:9 114:5 119:11 121:9,12,13 121:17,18 122:11 131:17 132:19 139:12,23 142:2 148:18,22 166:14 187:6 <b>average</b> 8:7,11 9:1,16 12:6 65:18 94:12 124:19 128:2,22,24 129:25 130:3 133:1	146:16,17 <b>barriers</b> 43:24 <b>base</b> 101:2,4 173:16 <b>based</b> 6:14 19:19 23:2 24:3 62:14,19 64:2 73:21 74:20 98:19 101:2 102:4 107:5 114:15 132:25 147:3,5 148:2 150:23 156:9 157:19 158:8,11 159:7 163:7 165:10	begins 32:4 behalf 97:23 157:12 behind 136:22 215:10 being 13:15 33:20,21 43:25 46:20,21 47:15,16 49:17 84:7 84:8 88:9 95:16 102:10 103:3 114:10 115:6 128:18 132:12 133:5 142:5 154:13 164:13,18 168:22
201:4,8,14,17 203:13 <b>appraised</b> 63:4 <b>appreciate</b> 55:5 137:23 189:1 210:21 <b>approach</b> 23:5 49:9 68:13 71:3 137:10 146:23,24,25 147:3 150:11 152:11 153:6 157:16 158:9 159:5,7 160:21 161:14 192:1 199:6	argument 154:22 155:7,21 206:1 arguments 148:20 arise 37:2 around 32:12,18 52:21 61:23 85:2,3 95:19 101:12 124:12 127:19 139:8 183:12 arrangement 177:6,8 177:9,16,19 178:4 178:16 180:18 arrival 54:18	associated 13:25 30:6 30:13,15,21,24 33:20 34:7 35:5 51:7,12,13 58:7 65:8 Associates 2:15 60:7 74:17 144:20 assume 37:15,19,22 38:3 78:8 124:25 143:1 168:6 173:5 193:15 assumed 37:8 92:25 129:8 170:10 192:7	81:16 93:10 98:23 105:7 112:9 114:5 119:11 121:9,12,13 121:17,18 122:11 131:17 132:19 139:12,23 142:2 148:18,22 166:14 187:6 <b>average</b> 8:7,11 9:1,16 12:6 65:18 94:12 124:19 128:2,22,24 129:25 130:3 133:1 133:17 137:25	146:16,17 <b>barriers</b> 43:24 <b>base</b> 101:2,4 173:16 <b>based</b> 6:14 19:19 23:2 24:3 62:14,19 64:2 73:21 74:20 98:19 101:2 102:4 107:5 114:15 132:25 147:3,5 148:2 150:23 156:9 157:19 158:8,11	begins 32:4 behalf 97:23 157:12 behind 136:22 215:10 being 13:15 33:20,21 43:25 46:20,21 47:15,16 49:17 84:7 84:8 88:9 95:16 102:10 103:3 114:10 115:6 128:18 132:12 133:5 142:5 154:13 164:13,18 168:22 170:15 173:18
201:4,8,14,17 203:13 appraised 63:4 appreciate 55:5 137:23 189:1 210:21 approach 23:5 49:9 68:13 71:3 137:10 146:23,24,25 147:3 150:11 152:11 153:6 157:16 158:9 159:5,7 160:21 161:14 192:1 199:6 appropriate 6:22	argument 154:22 155:7,21 206:1 arguments 148:20 arise 37:2 around 32:12,18 52:21 61:23 85:2,3 95:19 101:12 124:12 127:19 139:8 183:12 arrangement 177:6,8 177:9,16,19 178:4 178:16 180:18 arrival 54:18 arrival 54:18	associated 13:25 30:6 30:13,15,21,24 33:20 34:7 35:5 51:7,12,13 58:7 65:8 Associates 2:15 60:7 74:17 144:20 assume 37:15,19,22 38:3 78:8 124:25 143:1 168:6 173:5 193:15 assumed 37:8 92:25 129:8 170:10 192:7 assumes 19:6,10	81:16 93:10 98:23 105:7 112:9 114:5 119:11 121:9,12,13 121:17,18 122:11 131:17 132:19 139:12,23 142:2 148:18,22 166:14 187:6 <b>average</b> 8:7,11 9:1,16 12:6 65:18 94:12 124:19 128:2,22,24 129:25 130:3 133:1 133:17 137:25 138:8,9 151:19	146:16,17 <b>barriers</b> 43:24 <b>base</b> 101:2,4 173:16 <b>based</b> 6:14 19:19 23:2 24:3 62:14,19 64:2 73:21 74:20 98:19 101:2 102:4 107:5 114:15 132:25 147:3,5 148:2 150:23 156:9 157:19 158:8,11 159:7 163:7 165:10	begins 32:4 behalf 97:23 157:12 behind 136:22 215:10 being 13:15 33:20,21 43:25 46:20,21 47:15,16 49:17 84:7 84:8 88:9 95:16 102:10 103:3 114:10 115:6 128:18 132:12 133:5 142:5 154:13 164:13,18 168:22 170:15 173:18 176:5 178:21
201:4,8,14,17 203:13 appraised 63:4 appreciate 55:5 137:23 189:1 210:21 approach 23:5 49:9 68:13 71:3 137:10 146:23,24,25 147:3 150:11 152:11 153:6 157:16 158:9 159:5,7 160:21 161:14 192:1 199:6 appropriate 6:22 14:22 63:4 65:19	argument 154:22 155:7,21 206:1 arguments 148:20 arise 37:2 around 32:12,18 52:21 61:23 85:2,3 95:19 101:12 124:12 127:19 139:8 183:12 arrangement 177:6,8 177:9,16,19 178:4 178:16 180:18 arrival 54:18 arrival 54:18 arriva 52:13 76:22 78:25	associated 13:25 30:6 30:13,15,21,24 33:20 34:7 35:5 51:7,12,13 58:7 65:8 Associates 2:15 60:7 74:17 144:20 assume 37:15,19,22 38:3 78:8 124:25 143:1 168:6 173:5 193:15 assumed 37:8 92:25 129:8 170:10 192:7 assumes 19:6,10 120:21	81:16 93:10 98:23 105:7 112:9 114:5 119:11 121:9,12,13 121:17,18 122:11 131:17 132:19 139:12,23 142:2 148:18,22 166:14 187:6 <b>average</b> 8:7,11 9:1,16 12:6 65:18 94:12 124:19 128:2,22,24 129:25 130:3 133:1 133:17 137:25 138:8,9 151:19 152:11	146:16,17 <b>barriers</b> 43:24 <b>base</b> 101:2,4 173:16 <b>based</b> 6:14 19:19 23:2 24:3 62:14,19 64:2 73:21 74:20 98:19 101:2 102:4 107:5 114:15 132:25 147:3,5 148:2 150:23 156:9 157:19 158:8,11 159:7 163:7 165:10 165:16 168:20	begins 32:4 behalf 97:23 157:12 behind 136:22 215:10 being 13:15 33:20,21 43:25 46:20,21 47:15,16 49:17 84:7 84:8 88:9 95:16 102:10 103:3 114:10 115:6 128:18 132:12 133:5 142:5 154:13 164:13,18 168:22 170:15 173:18 176:5 178:21 184:15 186:2
201:4,8,14,17 203:13 appraised 63:4 appreciate 55:5 137:23 189:1 210:21 approach 23:5 49:9 68:13 71:3 137:10 146:23,24,25 147:3 150:11 152:11 153:6 157:16 158:9 159:5,7 160:21 161:14 192:1 199:6 appropriate 6:22 14:22 63:4 65:19 78:24 101:7 122:5	argument 154:22 155:7,21 206:1 arguments 148:20 arise 37:2 around 32:12,18 52:21 61:23 85:2,3 95:19 101:12 124:12 127:19 139:8 183:12 arrangement 177:6,8 177:9,16,19 178:4 1778:16 180:18 arrivel 54:18 arrivel 54:18 arrives 76:22 84:19	associated 13:25 30:6 30:13,15,21,24 33:20 34:7 35:5 51:7,12,13 58:7 65:8 Associates 2:15 60:7 74:17 144:20 assume 37:15,19,22 38:3 78:8 124:25 143:1 168:6 173:5 193:15 assumed 37:8 92:25 129:8 170:10 192:7 assumes 19:6,10 120:21 assuming 21:2 43:10	81:16 93:10 98:23 105:7 112:9 114:5 119:11 121:9,12,13 121:17,18 122:11 131:17 132:19 139:12,23 142:2 148:18,22 166:14 187:6 <b>average</b> 8:7,11 9:1,16 12:6 65:18 94:12 124:19 128:2,22,24 129:25 130:3 133:1 133:17 137:25 138:8,9 151:19 152:11 <b>averages</b> 128:4	146:16,17 barriers 43:24 base 101:2,4 173:16 based 6:14 19:19 23:2 24:3 62:14,19 64:2 73:21 74:20 98:19 101:2 102:4 107:5 114:15 132:25 147:3,5 148:2 150:23 156:9 157:19 158:8,11 159:7 163:7 165:10 165:16 168:20 170:14,15 171:6	begins 32:4 behalf 97:23 157:12 behind 136:22 215:10 being 13:15 33:20,21 43:25 46:20,21 47:15,16 49:17 84:7 84:8 88:9 95:16 102:10 103:3 114:10 115:6 128:18 132:12 133:5 142:5 154:13 164:13,18 168:22 170:15 173:18 176:5 178:21 184:15 186:2 187:24 199:9,10
201:4,8,14,17 203:13 appraised 63:4 appreciate 55:5 137:23 189:1 210:21 approach 23:5 49:9 68:13 71:3 137:10 146:23,24,25 147:3 150:11 152:11 153:6 157:16 158:9 159:5,7 160:21 161:14 192:1 199:6 appropriate 6:22 14:22 63:4 65:19	argument 154:22 155:7,21 206:1 arguments 148:20 arise 37:2 around 32:12,18 52:21 61:23 85:2,3 95:19 101:12 124:12 127:19 139:8 183:12 arrangement 177:6,8 177:9,16,19 178:4 178:16 180:18 arrival 54:18 arrival 54:18 arriva 52:13 76:22 78:25	associated 13:25 30:6 30:13,15,21,24 33:20 34:7 35:5 51:7,12,13 58:7 65:8 Associates 2:15 60:7 74:17 144:20 assume 37:15,19,22 38:3 78:8 124:25 143:1 168:6 173:5 193:15 assumed 37:8 92:25 129:8 170:10 192:7 assumes 19:6,10 120:21	81:16 93:10 98:23 105:7 112:9 114:5 119:11 121:9,12,13 121:17,18 122:11 131:17 132:19 139:12,23 142:2 148:18,22 166:14 187:6 <b>average</b> 8:7,11 9:1,16 12:6 65:18 94:12 124:19 128:2,22,24 129:25 130:3 133:1 133:17 137:25 138:8,9 151:19 152:11	146:16,17 barriers 43:24 base 101:2,4 173:16 based 6:14 19:19 23:2 24:3 62:14,19 64:2 73:21 74:20 98:19 101:2 102:4 107:5 114:15 132:25 147:3,5 148:2 150:23 156:9 157:19 158:8,11 159:7 163:7 165:10 165:16 168:20 170:14,15 171:6 185:1 186:24 187:17 189:2	begins 32:4 behalf 97:23 157:12 behind 136:22 215:10 being 13:15 33:20,21 43:25 46:20,21 47:15,16 49:17 84:7 84:8 88:9 95:16 102:10 103:3 114:10 115:6 128:18 132:12 133:5 142:5 154:13 164:13,18 168:22 170:15 173:18 176:5 178:21 184:15 186:2
201:4,8,14,17 203:13 appraised 63:4 appreciate 55:5 137:23 189:1 210:21 approach 23:5 49:9 68:13 71:3 137:10 146:23,24,25 147:3 150:11 152:11 153:6 157:16 158:9 159:5,7 160:21 161:14 192:1 199:6 appropriate 6:22 14:22 63:4 65:19 78:24 101:7 122:5	argument 154:22 155:7,21 206:1 arguments 148:20 arise 37:2 around 32:12,18 52:21 61:23 85:2,3 95:19 101:12 124:12 127:19 139:8 183:12 arrangement 177:6,8 177:9,16,19 178:4 1778:16 180:18 arrivel 54:18 arrivel 54:18 arrives 76:22 84:19	associated 13:25 30:6 30:13,15,21,24 33:20 34:7 35:5 51:7,12,13 58:7 65:8 Associates 2:15 60:7 74:17 144:20 assume 37:15,19,22 38:3 78:8 124:25 143:1 168:6 173:5 193:15 assumed 37:8 92:25 129:8 170:10 192:7 assumes 19:6,10 120:21 assuming 21:2 43:10	81:16 93:10 98:23 105:7 112:9 114:5 119:11 121:9,12,13 121:17,18 122:11 131:17 132:19 139:12,23 142:2 148:18,22 166:14 187:6 <b>average</b> 8:7,11 9:1,16 12:6 65:18 94:12 124:19 128:2,22,24 129:25 130:3 133:1 133:17 137:25 138:8,9 151:19 152:11 <b>averages</b> 128:4	146:16,17 barriers 43:24 base 101:2,4 173:16 based 6:14 19:19 23:2 24:3 62:14,19 64:2 73:21 74:20 98:19 101:2 102:4 107:5 114:15 132:25 147:3,5 148:2 150:23 156:9 157:19 158:8,11 159:7 163:7 165:10 165:16 168:20 170:14,15 171:6 185:1 186:24	begins 32:4 behalf 97:23 157:12 behind 136:22 215:10 being 13:15 33:20,21 43:25 46:20,21 47:15,16 49:17 84:7 84:8 88:9 95:16 102:10 103:3 114:10 115:6 128:18 132:12 133:5 142:5 154:13 164:13,18 168:22 170:15 173:18 176:5 178:21 184:15 186:2 187:24 199:9,10
201:4,8,14,17 203:13 appraised 63:4 appreciate 55:5 137:23 189:1 210:21 approach 23:5 49:9 68:13 71:3 137:10 146:23,24,25 147:3 150:11 152:11 153:6 157:16 158:9 159:5,7 160:21 161:14 192:1 199:6 appropriate 6:22 14:22 63:4 65:19 78:24 101:7 122:5 142:5 147:11	argument 154:22 155:7,21 206:1 arguments 148:20 arise 37:2 around 32:12,18 52:21 61:23 85:2,3 95:19 101:12 124:12 127:19 139:8 183:12 arrangement 177:6,8 177:9,16,19 178:4 178:16 180:18 arrival 54:18 arriva 54:18 arrive 52:13 76:22 78:25 arrives 76:22 84:19 article 13:24 14:2,6	associated 13:25 30:6 30:13,15,21,24 33:20 34:7 35:5 51:7,12,13 58:7 65:8 Associates 2:15 60:7 74:17 144:20 assume 37:15,19,22 38:3 78:8 124:25 143:1 168:6 173:5 193:15 assumed 37:8 92:25 129:8 170:10 192:7 assumes 19:6,10 120:21 assuming 21:2 43:10 44:15,18 127:13	81:16 93:10 98:23 105:7 112:9 114:5 119:11 121:9,12,13 121:17,18 122:11 131:17 132:19 139:12,23 142:2 148:18,22 166:14 187:6 <b>average</b> 8:7,11 9:1,16 12:6 65:18 94:12 124:19 128:2,22,24 129:25 130:3 133:1 133:17 137:25 138:8,9 151:19 152:11 <b>averages</b> 128:4 <b>averaging</b> 8:6	$\begin{array}{c} 146:16,17\\ \textbf{barriers}\ 43:24\\ \textbf{base}\ 101:2,4\ 173:16\\ \textbf{base}\ 011:2,4\ 173:16\\ \textbf{base}\ 0:14\ 19:19\ 23:2\\ 24:3\ 62:14,19\ 64:2\\ 73:21\ 74:20\ 98:19\\ 101:2\ 102:4\ 107:5\\ 114:15\ 132:25\\ 147:3,5\ 148:2\\ 150:23\ 156:9\\ 157:19\ 158:8,11\\ 159:7\ 163:7\ 165:10\\ 165:16\ 168:20\\ 170:14,15\ 171:6\\ 185:1\ 186:24\\ 187:17\ 189:2\\ 191:15\ 193:4\\ 195:17\ 196:25\\ \end{array}$	begins 32:4 behalf 97:23 157:12 behind 136:22 215:10 being 13:15 33:20,21 43:25 46:20,21 47:15,16 49:17 84:7 84:8 88:9 95:16 102:10 103:3 114:10 115:6 128:18 132:12 133:5 142:5 154:13 164:13,18 168:22 170:15 173:18 176:5 178:21 184:15 186:2 187:24 199:9,10 200:21 207:9 212:5
201:4,8,14,17 203:13 appraised 63:4 appreciate 55:5 137:23 189:1 210:21 approach 23:5 49:9 68:13 71:3 137:10 146:23,24,25 147:3 150:11 152:11 153:6 157:16 158:9 159:5,7 160:21 161:14 192:1 199:6 appropriate 6:22 14:22 63:4 65:19 78:24 101:7 122:5 142:5 147:11 156:11 157:15	argument 154:22 155:7,21 206:1 arguments 148:20 arise 37:2 around 32:12,18 52:21 61:23 85:2,3 95:19 101:12 124:12 127:19 139:8 183:12 arrangement 177:6,8 177:9,16,19 178:4 178:16 180:18 arrival 54:18 arrive 52:13 76:22 78:25 arrives 76:22 84:19 article 13:24 14:2,6 15:22 211:1,2	associated 13:25 30:6 30:13,15,21,24 33:20 34:7 35:5 51:7,12,13 58:7 65:8 Associates 2:15 60:7 74:17 144:20 assume 37:15,19,22 38:3 78:8 124:25 143:1 168:6 173:5 193:15 assumed 37:8 92:25 129:8 170:10 192:7 assumes 19:6,10 120:21 assuming 21:2 43:10 44:15,18 127:13 129:15	81:16 93:10 98:23 105:7 112:9 114:5 119:11 121:9,12,13 121:17,18 122:11 131:17 132:19 139:12,23 142:2 148:18,22 166:14 187:6 <b>average</b> 8:7,11 9:1,16 12:6 65:18 94:12 124:19 128:2,22,24 129:25 130:3 133:1 133:17 137:25 138:8,9 151:19 152:11 <b>averages</b> 128:4 <b>averaging</b> 8:6 <b>award</b> 57:5 64:19	$\begin{array}{c} 146:16,17\\ \textbf{barriers}\ 43:24\\ \textbf{base}\ 101:2,4\ 173:16\\ \textbf{base}\ 011:2,4\ 173:16\\ \textbf{base}\ 0:14\ 19:19\ 23:2\\ 24:3\ 62:14,19\ 64:2\\ 73:21\ 74:20\ 98:19\\ 101:2\ 102:4\ 107:5\\ 114:15\ 132:25\\ 114:15\ 132:25\\ 147:3,5\ 148:2\\ 150:23\ 156:9\\ 157:19\ 158:8,11\\ 159:7\ 163:7\ 165:10\\ 165:16\ 168:20\\ 170:14,15\ 171:6\\ 185:1\ 186:24\\ 187:17\ 189:2\\ 191:15\ 193:4\\ 195:17\ 196:25\\ 197:1\ 198:7\ 199:6,7\\ \end{array}$	begins 32:4 behalf 97:23 157:12 behind 136:22 215:10 being 13:15 33:20,21 43:25 46:20,21 47:15,16 49:17 84:7 84:8 88:9 95:16 102:10 103:3 114:10 115:6 128:18 132:12 133:5 142:5 154:13 164:13,18 168:22 170:15 173:18 176:5 178:21 184:15 186:2 187:24 199:9,10 200:21 207:9 212:5 213:2
201:4,8,14,17 203:13 appraised 63:4 appreciate 55:5 137:23 189:1 210:21 approach 23:5 49:9 68:13 71:3 137:10 146:23,24,25 147:3 150:11 152:11 153:6 157:16 158:9 159:5,7 160:21 161:14 192:1 199:6 appropriate 6:22 14:22 63:4 65:19 78:24 101:7 122:5 14:25 147:11 156:11 157:15 172:3 187:19 189:4	argument 154:22 155:7,21 206:1 arguments 148:20 arise 37:2 around 32:12,18 52:21 61:23 85:2,3 95:19 101:12 124:12 127:19 139:8 183:12 arrangement 177:6,8 177:9,16,19 178:4 178:16 180:18 arrival 54:18 arrive 52:13 76:22 78:25 arrives 76:22 84:19 article 13:24 14:2,6 15:22 211:1,2 articulated 166:17	associated 13:25 30:6 30:13,15,21,24 33:20 34:7 35:5 51:7,12,13 58:7 65:8 Associates 2:15 60:7 74:17 144:20 assume 37:15,19,22 38:3 78:8 124:25 143:1 168:6 173:5 193:15 assumed 37:8 92:25 129:8 170:10 192:7 assumes 19:6,10 120:21 assuming 21:2 43:10 44:15,18 127:13 129:15 assumption 118:4	81:16 93:10 98:23 105:7 112:9 114:5 119:11 121:9,12,13 121:17,18 122:11 131:17 132:19 139:12,23 142:2 148:18,22 166:14 187:6 <b>average</b> 8:7,11 9:1,16 12:6 65:18 94:12 124:19 128:2,22,24 129:25 130:3 133:1 133:17 137:25 138:8,9 151:19 152:11 <b>averages</b> 128:4 <b>averaging</b> 8:6 <b>award</b> 57:5 64:19 155:9,16 156:7,15	$\begin{array}{c} 146:16,17\\ \textbf{barriers}\ 43:24\\ \textbf{base}\ 101:2,4\ 173:16\\ \textbf{base}\ 011:2,4\ 173:16\\ \textbf{base}\ 0:14\ 19:19\ 23:2\\ 24:3\ 62:14\ 19:19\ 23:2\\ 24:3\ 62:14\ 19:19\ 23:2\\ 13:21\ 74:20\ 98:19\\ 101:2\ 102:4\ 107:5\\ 114:15\ 132:25\\ 114:15\ 132:25\\ 147:3,5\ 148:2\\ 150:23\ 156:9\\ 157:19\ 158:8,11\\ 159:7\ 163:7\ 165:10\\ 165:16\ 168:20\\ 170:14,15\ 171:6\\ 185:1\ 186:24\\ 187:17\ 189:2\\ 191:15\ 193:4\\ 195:17\ 196:25\\ 197:1\ 198:7\ 199:6,7\\ 200:7,17\ 201:10\\ \end{array}$	begins 32:4 behalf 97:23 157:12 behind 136:22 215:10 being 13:15 33:20,21 43:25 46:20,21 47:15,16 49:17 84:7 84:8 88:9 95:16 102:10 103:3 114:10 115:6 128:18 132:12 133:5 142:5 154:13 164:13,18 168:22 170:15 173:18 176:5 178:21 184:15 186:2 187:24 199:9,10 200:21 207:9 212:5 213:2 belabour 208:18
201:4,8,14,17 203:13 appraised 63:4 appreciate 55:5 137:23 189:1 210:21 approach 23:5 49:9 68:13 71:3 137:10 146:23,24,25 147:3 150:11 152:11 153:6 157:16 158:9 159:5,7 160:21 161:14 192:1 199:6 appropriate 6:22 14:22 63:4 65:19 78:24 101:7 122:5 142:5 147:11 156:11 157:15 172:3 187:19 189:4 189:7,11 197:16	argument 154:22 155:7,21 206:1 arguments 148:20 arise 37:2 around 32:12,18 52:21 61:23 85:2,3 95:19 101:12 124:12 127:19 139:8 183:12 arrangement 177:6,8 177:9,16,19 178:4 178:16 180:18 arrival 54:18 arrive 52:13 76:22 78:25 arrives 76:22 84:19 article 13:24 14:2,6 15:22 211:1,2 articulated 166:17 ascertain 164:4 166:2	associated 13:25 30:6 30:13,15,21,24 33:20 34:7 35:5 51:7,12,13 58:7 65:8 Associates 2:15 60:7 74:17 144:20 assume 37:15,19,22 38:3 78:8 124:25 143:1 168:6 173:5 193:15 assumed 37:8 92:25 129:8 170:10 192:7 assumes 19:6,10 120:21 assuming 21:2 43:10 44:15,18 127:13 129:15 assumption 118:4 125:5 178:18	81:16 93:10 98:23 105:7 112:9 114:5 119:11 121:9,12,13 121:17,18 122:11 131:17 132:19 139:12,23 142:2 148:18,22 166:14 187:6 <b>average</b> 8:7,11 9:1,16 12:6 65:18 94:12 124:19 128:2,22,24 129:25 130:3 133:1 133:17 137:25 138:8,9 151:19 152:11 <b>averages</b> 128:4 <b>averaging</b> 8:6 <b>award</b> 57:5 64:19 155:9,16 156:7,15 191:18	$\begin{array}{c} 146:16,17\\ \textbf{barriers}\ 43:24\\ \textbf{base}\ 101:2,4\ 173:16\\ \textbf{base}\ 011:2,4\ 173:16\\ \textbf{base}\ 0:14.19:19\ 23:2\\ 24:3\ 62:14,19\ 64:2\\ 73:21\ 74:20\ 98:19\\ 101:2\ 102:4\ 107:5\\ 114:15\ 132:25\\ 114:15\ 132:25\\ 147:3,5\ 148:2\\ 150:23\ 156:9\\ 157:19\ 158:8,11\\ 159:7\ 163:7\ 165:10\\ 165:16\ 168:20\\ 170:14,15\ 171:6\\ 185:1\ 186:24\\ 187:17\ 189:2\\ 191:15\ 193:4\\ 195:17\ 198:7\ 199:6,7\\ 200:7,17\ 201:10\\ 202:20\ 203:5\\ \end{array}$	begins 32:4 behalf 97:23 157:12 behind 136:22 215:10 being 13:15 33:20,21 43:25 46:20,21 47:15,16 49:17 84:7 84:8 88:9 95:16 102:10 103:3 114:10 115:6 128:18 132:12 133:5 142:5 154:13 164:13,18 168:22 170:15 173:18 176:5 178:21 184:15 186:2 187:24 199:9,10 200:21 207:9 212:5 213:2 belabour 208:18 belief 4:17,21 56:12
201:4,8,14,17 203:13 appraised 63:4 appreciate 55:5 137:23 189:1 210:21 approach 23:5 49:9 68:13 71:3 137:10 146:23,24,25 147:3 150:11 152:11 153:6 157:16 158:9 159:5,7 160:21 161:14 192:1 199:6 appropriate 6:22 14:22 63:4 65:19 78:24 101:7 122:5 142:5 147:11 156:11 157:15 172:3 187:19 189:4 189:7,11 197:16 200:15,21	argument 154:22 155:7,21 206:1 arguments 148:20 arise 37:2 around 32:12,18 52:21 61:23 85:2,3 95:19 101:12 124:12 127:19 139:8 183:12 arrangement 177:6,8 177:9,16,19 178:4 178:16 180:18 arrive 52:13 76:22 78:25 arrives 76:22 84:19 article 13:24 14:2,6 15:22 211:1,2 articulated 166:17 ascertain 164:4 166:2 Asia 5:14	associated 13:25 30:6 30:13,15,21,24 33:20 34:7 35:5 51:7,12,13 58:7 65:8 Associates 2:15 60:7 74:17 144:20 assume 37:15,19,22 38:3 78:8 124:25 143:1 168:6 173:5 193:15 assumed 37:8 92:25 129:8 170:10 192:7 assumes 19:6,10 120:21 assuming 21:2 43:10 44:15,18 127:13 129:15 assumption 118:4 125:5 178:18 192:10,11 194:2,6	81:16 93:10 98:23 105:7 112:9 114:5 119:11 121:9,12,13 121:17,18 122:11 131:17 132:19 139:12,23 142:2 148:18,22 166:14 187:6 <b>average</b> 8:7,11 9:1,16 12:6 65:18 94:12 124:19 128:2,22,24 129:25 130:3 133:1 133:17 137:25 138:8,9 151:19 152:11 <b>averages</b> 128:4 <b>averaging</b> 8:6 <b>award</b> 57:5 64:19 155:9,16 156:7,15 191:18 <b>aware</b> 16:5,18 21:8	$\begin{array}{c} 146:16,17\\ \textbf{barriers}\ 43:24\\ \textbf{base}\ 101:2,4\ 173:16\\ \textbf{base}\ 011:2,4\ 173:16\\ \textbf{base}\ 0:14:19:19\ 23:2\\ 24:3\ 62:14,19\ 64:2\\ 73:21\ 74:20\ 98:19\\ 101:2\ 102:4\ 107:5\\ 114:15\ 132:25\\ 114:15\ 132:25\\ 147:3,5\ 148:2\\ 150:23\ 156:9\\ 157:19\ 158:8,11\\ 159:7\ 163:7\ 165:10\\ 165:16\ 168:20\\ 170:14,15\ 171:6\\ 185:1\ 186:24\\ 187:17\ 189:2\\ 191:15\ 193:4\\ 195:17\ 196:7\\ 197:1\ 198:7\ 199:6,7\\ 200:7,17\ 201:10\\ 202:20\ 203:5\\ 205:21\ 206:18\\ \end{array}$	begins 32:4 behalf 97:23 157:12 behind 136:22 215:10 being 13:15 33:20,21 43:25 46:20,21 47:15,16 49:17 84:7 84:8 88:9 95:16 102:10 103:3 114:10 115:6 128:18 132:12 133:5 142:5 154:13 164:13,18 168:22 170:15 173:18 176:5 178:21 184:15 186:2 187:24 199:9,10 200:21 207:9 212:5 213:2 belabour 208:18 belief 4:17,21 56:12 56:16 87:12 145:3,7
201:4,8,14,17 203:13 appraised 63:4 appreciate 55:5 137:23 189:1 210:21 approach 23:5 49:9 68:13 71:3 137:10 146:23,24,25 147:3 150:11 152:11 153:6 157:16 158:9 159:5,7 160:21 161:14 192:1 199:6 appropriate 6:22 14:22 63:4 65:19 78:24 101:7 122:5 142:5 147:11 156:11 157:15 172:3 187:19 189:4 189:7,11 197:16 200:15,21 appropriations 46:20	argument 154:22 155:7,21 206:1 arguments 148:20 arise 37:2 around 32:12,18 52:21 61:23 85:2,3 95:19 101:12 124:12 127:19 139:8 183:12 arrangement 177:6,8 177:9,16,19 178:4 178:16 180:18 arrival 54:18 arrive 52:13 76:22 78:25 arrives 76:22 84:19 article 13:24 14:2,6 15:22 211:1,2 articulated 166:17 ascertain 164:4 166:2 Asia 5:14 aside 64:7	associated 13:25 30:6 30:13,15,21,24 33:20 34:7 35:5 51:7,12,13 58:7 65:8 Associates 2:15 60:7 74:17 144:20 assume 37:15,19,22 38:3 78:8 124:25 143:1 168:6 173:5 193:15 assumed 37:8 92:25 129:8 170:10 192:7 assumes 19:6,10 120:21 assuming 21:2 43:10 44:15,18 127:13 129:15 assumption 118:4 125:5 178:18 192:10,11 194:2,6 198:3,5	81:16 93:10 98:23 105:7 112:9 114:5 119:11 121:9,12,13 121:17,18 122:11 131:17 132:19 139:12,23 142:2 148:18,22 166:14 187:6 <b>average</b> 8:7,11 9:1,16 12:6 65:18 94:12 124:19 128:2,22,24 129:25 130:3 133:1 133:17 137:25 138:8,9 151:19 152:11 <b>averages</b> 128:4 <b>averaging</b> 8:6 <b>award</b> 57:5 64:19 155:9,16 156:7,15 191:18 <b>aware</b> 16:5,18 21:8 22:21 25:13,16 26:3	146:16,17 <b>barriers</b> 43:24 <b>base</b> 101:2,4 173:16 <b>based</b> 6:14 19:19 23:2 24:3 62:14,19 64:2 73:21 74:20 98:19 101:2 102:4 107:5 114:15 132:25 147:3,5 148:2 150:23 156:9 157:19 158:8,11 159:7 163:7 165:10 165:16 168:20 170:14,15 171:6 185:1 186:24 187:17 189:2 191:15 193:4 195:17 196:25 197:1 198:7 199:6,7 200:7,17 201:10 202:20 203:5 205:21 206:18 <b>basic</b> 67:5	begins 32:4 behalf 97:23 157:12 behind 136:22 215:10 being 13:15 33:20,21 43:25 46:20,21 47:15,16 49:17 84:7 84:8 88:9 95:16 102:10 103:3 114:10 115:6 128:18 132:12 133:5 142:5 154:13 164:13,18 168:22 170:15 173:18 176:5 178:21 184:15 186:2 187:24 199:9,10 200:21 207:9 212:5 213:2 belabour 208:18 belief 4:17,21 56:12 56:16 87:12 145:3,7 145:10
201:4,8,14,17 203:13 appraised 63:4 appreciate 55:5 137:23 189:1 210:21 approach 23:5 49:9 68:13 71:3 137:10 146:23,24,25 147:3 150:11 152:11 153:6 157:16 158:9 159:5,7 160:21 161:14 192:1 199:6 appropriate 6:22 14:22 63:4 65:19 78:24 101:7 122:5 142:5 147:11 156:11 157:15 172:3 187:19 189:4 189:7,11 197:16 200:15,21 appropriations 46:20 approvals 47:7,10,11	argument 154:22 155:7,21 206:1 arguments 148:20 arise 37:2 around 32:12,18 52:21 61:23 85:2,3 95:19 101:12 124:12 127:19 139:8 183:12 arrangement 177:6,8 177:9,16,19 178:4 178:16 180:18 arrival 54:18 arrive 52:13 76:22 78:25 arrives 76:22 84:19 article 13:24 14:2,6 15:22 211:1,2 articulated 166:17 ascertain 164:4 166:2 Asia 5:14 aside 64:7 asked 17:10 18:25	associated 13:25 30:6 30:13,15,21,24 33:20 34:7 35:5 51:7,12,13 58:7 65:8 Associates 2:15 60:7 74:17 144:20 assume 37:15,19,22 38:3 78:8 124:25 143:1 168:6 173:5 193:15 assumed 37:8 92:25 129:8 170:10 192:7 assumes 19:6,10 120:21 assuming 21:2 43:10 44:15,18 127:13 129:15 assumption 118:4 125:5 178:18 192:10,11 194:2,6 198:3,5 assumptions 173:12	81:16 93:10 98:23 105:7 112:9 114:5 119:11 121:9,12,13 121:17,18 122:11 131:17 132:19 139:12,23 142:2 148:18,22 166:14 187:6 <b>average</b> 8:7,11 9:1,16 12:6 65:18 94:12 124:19 128:2,22,24 129:25 130:3 133:1 133:17 137:25 138:8,9 151:19 152:11 <b>averages</b> 128:4 <b>averaging</b> 8:6 <b>award</b> 57:5 64:19 155:9,16 156:7,15 191:18 <b>aware</b> 16:5,18 21:8 22:21 25:13,16 26:3 26:5 29:18 38:16,18	146:16,17 barriers 43:24 base 101:2,4 173:16 based 6:14 19:19 23:2 24:3 62:14,19 64:2 73:21 74:20 98:19 101:2 102:4 107:5 114:15 132:25 147:3,5 148:2 150:23 156:9 157:19 158:8,11 159:7 163:7 165:10 165:16 168:20 170:14,15 171:6 185:1 186:24 187:17 189:2 191:15 193:4 195:17 196:25 197:1 198:7 199:6,7 200:7,17 201:10 202:20 203:5 205:21 206:18 basic 67:5 basically 52:13,14,25	begins 32:4 behalf 97:23 157:12 behind 136:22 215:10 being 13:15 33:20,21 43:25 46:20,21 47:15,16 49:17 84:7 84:8 88:9 95:16 102:10 103:3 114:10 115:6 128:18 132:12 133:5 142:5 154:13 164:13,18 168:22 170:15 173:18 176:5 178:21 184:15 186:2 187:24 199:9,10 200:21 207:9 212:5 213:2 belabour 208:18 belief 4:17,21 56:12 56:16 87:12 145:3,7 145:10 believe 21:12 22:3
201:4,8,14,17 203:13 appraised 63:4 appreciate 55:5 137:23 189:1 210:21 approach 23:5 49:9 68:13 71:3 137:10 146:23,24,25 147:3 150:11 152:11 153:6 157:16 158:9 159:5,7 160:21 161:14 192:1 199:6 appropriate 6:22 14:22 63:4 65:19 78:24 101:7 122:5 142:5 147:11 156:11 157:15 172:3 187:19 189:4 189:7,11 197:16 200:15,21 appropriations 46:20 approvals 47:7,10,11 47:19,25 48:2,6 approve 210:24	argument 154:22 155:7,21 206:1 arguments 148:20 arise 37:2 around 32:12,18 52:21 61:23 85:2,3 95:19 101:12 124:12 127:19 139:8 183:12 arrangement 177:6,8 177:9,16,19 178:4 178:16 180:18 arrive 52:13 76:22 78:25 arrives 76:22 84:19 article 13:24 14:2,6 15:22 211:1,2 articulated 166:17 ascertain 164:4 166:2 Asia 5:14 aside 64:7 asked 17:10 18:25 22:24 51:6 54:23 179:25 207:9,24	associated 13:25 30:6 30:13,15,21,24 33:20 34:7 35:5 51:7,12,13 58:7 65:8 Associates 2:15 60:7 74:17 144:20 assume 37:15,19,22 38:3 78:8 124:25 143:1 168:6 173:5 193:15 assumed 37:8 92:25 129:8 170:10 192:7 assuming 21:2 43:10 44:15,18 127:13 129:15 assumption 118:4 125:5 178:18 192:10,11 194:2,6 198:3,5 assumptions 173:12 182:2 Atkinson 17:16 18:22	81:16 93:10 98:23 105:7 112:9 114:5 119:11 121:9,12,13 121:17,18 122:11 131:17 132:19 139:12,23 142:2 148:18,22 166:14 187:6 <b>average</b> 8:7,11 9:1,16 12:6 65:18 94:12 124:19 128:2,22,24 129:25 130:3 133:1 133:17 137:25 138:8,9 151:19 152:11 <b>averages</b> 128:4 <b>averaging</b> 8:6 <b>award</b> 57:5 64:19 155:9,16 156:7,15 191:18 <b>aware</b> 16:5,18 21:8 22:21 25:13,16 26:3 26:5 29:18 38:16,18 38:19 44:13,17 48:14,17,18,23	$\begin{array}{r} 146:16,17\\ \textbf{barriers}\ 43:24\\ \textbf{base}\ 101:2,4\ 173:16\\ \textbf{base}\ 101:2,4\ 173:16\\ \textbf{base}\ 0:14\ 19:19\ 23:2\\ 24:3\ 62:14,19\ 64:2\\ 73:21\ 74:20\ 98:19\\ 101:2\ 102:4\ 107:5\\ 114:15\ 132:25\\ 147:3,5\ 148:2\\ 150:23\ 156:9\\ 157:19\ 158:8,11\\ 159:7\ 163:7\ 165:10\\ 165:16\ 166:20\\ 170:14,15\ 171:6\\ 185:1\ 186:24\\ 187:17\ 189:2\\ 191:15\ 193:4\\ 195:17\ 196:25\\ 197:1\ 198:7\ 199:6,7\\ 200:7,17\ 201:10\\ 202:20\ 203:5\\ 205:21\ 206:18\\ \textbf{basic}\ 67:5\\ \textbf{basically}\ 52:13,14,25\\ 99:19\ 119:6\ 160:15\\ \end{array}$	begins 32:4 behalf 97:23 157:12 behind 136:22 215:10 being 13:15 33:20,21 43:25 46:20,21 47:15,16 49:17 84:7 84:8 88:9 95:16 102:10 103:3 114:10 115:6 128:18 132:12 133:5 142:5 154:13 164:13,18 168:22 170:15 173:18 176:5 178:21 184:15 186:2 187:24 199:9,10 200:21 207:9 212:5 213:2 belabour 208:18 belief 4:17,21 56:12 56:16 87:12 145:3,7 145:10 believe 21:12 22:3 25:5 32:23,24 34:23 37:12 47:24 51:18
201:4,8,14,17 203:13 appraised 63:4 appreciate 55:5 137:23 189:1 210:21 approach 23:5 49:9 68:13 71:3 137:10 146:23,24,25 147:3 150:11 152:11 153:6 157:16 158:9 159:5,7 160:21 161:14 192:1 199:6 appropriate 6:22 14:22 63:4 65:19 78:24 101:7 122:5 142:5 147:11 156:11 157:15 172:3 187:19 189:4 189:7,11 197:16 200:15,21 appropriations 46:20 approvals 47:7,10,11 47:19,25 48:2,6 approve 210:24 approved 81:13	argument 154:22 155:7,21 206:1 arguments 148:20 arise 37:2 around 32:12,18 52:21 61:23 85:2,3 95:19 101:12 124:12 127:19 139:8 183:12 arrangement 177:6,8 177:9,16,19 178:4 178:16 180:18 arrive 52:13 76:22 78:25 arrives 76:22 84:19 article 13:24 14:2,6 15:22 211:1,2 articulated 166:17 ascertain 164:4 166:2 Asia 5:14 aside 64:7 asked 17:10 18:25 22:24 51:6 54:23 179:25 207:9,24 210:5	associated 13:25 30:6 30:13,15,21,24 33:20 34:7 35:5 51:7,12,13 58:7 65:8 Associates 2:15 60:7 74:17 144:20 assume 37:15,19,22 38:3 78:8 124:25 143:1 168:6 173:5 193:15 assumed 37:8 92:25 129:8 170:10 192:7 assuming 21:2 43:10 44:15,18 127:13 129:15 assumption 118:4 125:5 178:18 192:10,11 194:2,6 198:3,5 assumptions 173:12 182:2 Atkinson 17:16 18:22 19:11,23 21:12	81:16 93:10 98:23 105:7 112:9 114:5 119:11 121:9,12,13 121:17,18 122:11 131:17 132:19 139:12,23 142:2 148:18,22 166:14 187:6 <b>average</b> 8:7,11 9:1,16 12:6 65:18 94:12 124:19 128:2,22,24 129:25 130:3 133:1 133:17 137:25 138:8,9 151:19 152:11 <b>averages</b> 128:4 <b>averaging</b> 8:6 <b>award</b> 57:5 64:19 155:9,16 156:7,15 191:18 <b>aware</b> 16:5,18 21:8 22:21 25:13,16 26:3 26:5 29:18 38:16,18 38:19 44:13,17 48:14,17,18,23 49:16 70:11 80:18	$\begin{array}{r} 146:16,17\\ \textbf{barriers}\ 43:24\\ \textbf{base}\ 101:2,4\ 173:16\\ \textbf{base}\ 101:2,4\ 173:16\\ \textbf{base}\ 0:14\ 19:19\ 23:2\\ 24:3\ 62:14,19\ 64:2\\ 73:21\ 74:20\ 98:19\\ 101:2\ 102:4\ 107:5\\ 114:15\ 132:25\\ 147:3,5\ 148:2\\ 150:23\ 156:9\\ 157:19\ 158:8,11\\ 159:7\ 163:7\ 165:10\\ 165:16\ 168:20\\ 170:14,15\ 171:6\\ 185:1\ 186:24\\ 187:17\ 189:2\\ 191:15\ 193:4\\ 195:17\ 196:25\\ 197:1\ 198:7\ 199:6,7\\ 200:7,17\ 201:10\\ 202:20\ 203:5\\ 205:21\ 206:18\\ \textbf{basic}\ 67:5\\ \textbf{basically}\ 52:13,14,25\\ 99:19\ 119:6\ 160:15\\ 161:14\\ \end{array}$	$\begin{array}{l} \mbox{begins } 32:4 \\ \mbox{behalf } 97:23 \; 157:12 \\ \mbox{behalf } 33:20,21 \\ \mbox{43:25 } 46:20,21 \\ \mbox{47:15,16 } 49:17 \; 84:7 \\ \mbox{88:9 } 95:16 \\ \mbox{102:10 } 103:3 \\ \mbox{114:10 } 115:6 \\ \mbox{128:18 } 132:12 \\ \mbox{133:5 } 142:5 \; 154:13 \\ \mbox{164:13,18 } 168:22 \\ \mbox{170:15 } 173:18 \\ \mbox{164:13,18 } 168:22 \\ \mbox{170:15 } 173:18 \\ \mbox{176:5 } 178:21 \\ \mbox{184:15 } 186:2 \\ \mbox{187:24 } 199:9,10 \\ \mbox{200:21 } 207:9 \; 212:5 \\ \mbox{213:2 } \\ \mbox{belabour } 208:18 \\ \mbox{belief } 4:17,21 \; 56:12 \\ \mbox{56:16 } 87:12 \; 145:3,7 \\ \mbox{145:10 } \\ \mbox{believe } 21:12 \; 22:3 \\ \mbox{25:5 } 32:23,24 \; 34:23 \\ \mbox{37:12 } 47:24 \; 51:18 \\ \mbox{60:18,24 } 61:14,21 \end{array}$
201:4,8,14,17 203:13 appraised 63:4 appreciate 55:5 137:23 189:1 210:21 approach 23:5 49:9 68:13 71:3 137:10 146:23,24,25 147:3 150:11 152:11 153:6 157:16 158:9 159:5,7 160:21 161:14 192:1 199:6 appropriate 6:22 14:22 63:4 65:19 78:24 101:7 122:5 142:5 147:11 156:11 157:15 172:3 187:19 189:4 189:7,11 197:16 200:15,21 appropriations 46:20 approvel 47:7,10,11 47:19,25 48:2,6 approve 210:24 approved 81:13 approximate 78:1,18	argument 154:22 155:7,21 206:1 arguments 148:20 arise 37:2 around 32:12,18 52:21 61:23 85:2,3 95:19 101:12 124:12 127:19 139:8 183:12 arrangement 177:6,8 177:9,16,19 178:4 178:16 180:18 arrival 54:18 arrival 54:18 arrive 52:13 76:22 78:25 arrives 76:22 84:19 article 13:24 14:2,6 15:22 211:1,2 articulated 166:17 ascertain 164:4 166:2 Asia 5:14 aside 64:7 asked 17:10 18:25 22:24 51:6 54:23 179:25 207:9,24 210:5 asking 15:14 86:3	associated 13:25 30:6 30:13,15,21,24 33:20 34:7 35:5 51:7,12,13 58:7 65:8 Associates 2:15 60:7 74:17 144:20 assume 37:15,19,22 38:3 78:8 124:25 143:1 168:6 173:5 193:15 assumed 37:8 92:25 129:8 170:10 192:7 assuming 21:2 43:10 120:21 assumption 118:4 125:5 178:18 192:10,11 194:2,6 198:3,5 assumptions 173:12 182:2 Atkinson 17:16 18:22 19:11,23 21:12 57:11 62:14 75:24	81:16 93:10 98:23 105:7 112:9 114:5 119:11 121:9,12,13 121:17,18 122:11 131:17 132:19 139:12,23 142:2 148:18,22 166:14 187:6 <b>average</b> 8:7,11 9:1,16 12:6 65:18 94:12 124:19 128:2,22,24 129:25 130:3 133:1 133:17 137:25 138:8,9 151:19 152:11 <b>averages</b> 128:4 <b>averaging</b> 8:6 <b>award</b> 57:5 64:19 155:9,16 156:7,15 191:18 <b>aware</b> 16:5,18 21:8 22:21 25:13,16 26:3 26:5 29:18 38:16,18 38:19 44:13,17 48:14,17,18,23 49:16 70:11 80:18 80:20 81:4,6 90:23	$\begin{array}{r} 146:16,17\\ \textbf{barriers}\ 43:24\\ \textbf{base}\ 101:2,4\ 173:16\\ \textbf{base}\ 011:2,4\ 173:16\\ \textbf{base}\ 0:14\ 19:19\ 23:2\\ 24:3\ 62:14,19\ 64:2\\ 73:21\ 74:20\ 98:19\\ 101:2\ 102:4\ 107:5\\ 114:15\ 132:25\\ 147:3,5\ 148:2\\ 150:23\ 156:9\\ 157:19\ 158:8,11\\ 159:7\ 163:7\ 165:10\\ 165:16\ 168:20\\ 170:14,15\ 171:6\\ 185:1\ 186:24\\ 187:17\ 189:2\\ 191:15\ 193:4\\ 195:17\ 196:25\\ 197:1\ 198:7\ 199:6,7\\ 200:7,17\ 201:10\\ 202:20\ 203:5\\ 205:21\ 206:18\\ \textbf{basic}\ 67:5\\ \textbf{basically}\ 52:13,14,25\\ 99:19\ 119:6\ 160:15\\ 161:14\\ \textbf{basis}\ 21:1,3\ 43:13\\ \end{array}$	begins 32:4 behalf 97:23 157:12 behind 136:22 215:10 being 13:15 33:20,21 43:25 46:20,21 47:15,16 49:17 84:7 84:8 88:9 95:16 102:10 103:3 114:10 115:6 128:18 132:12 133:5 142:5 154:13 164:13,18 168:22 170:15 173:18 176:5 178:21 184:15 186:2 187:24 199:9,10 200:21 207:9 212:5 213:2 belabour 208:18 belief 4:17,21 56:12 56:16 87:12 145:3,7 145:10 believe 21:12 22:3 25:5 32:23,24 34:23 37:12 47:24 51:18 60:18,24 61:14,21 62:17 63:18,24
201:4,8,14,17 203:13 appraised 63:4 appreciate 55:5 137:23 189:1 210:21 approach 23:5 49:9 68:13 71:3 137:10 146:23,24,25 147:3 150:11 152:11 153:6 157:16 158:9 159:5,7 160:21 161:14 192:1 199:6 appropriate 6:22 14:22 63:4 65:19 78:24 101:7 122:5 142:5 147:11 156:11 157:15 172:3 187:19 189:4 189:7,11 197:16 200:15,21 approvals 47:7,10,11 47:19,25 48:2,6 approved 81:13 approximate 78:1,18 155:24	argument 154:22 155:7,21 206:1 arguments 148:20 arise 37:2 around 32:12,18 52:21 61:23 85:2,3 95:19 101:12 124:12 127:19 139:8 183:12 arrangement 177:6,8 177:9,16,19 178:4 178:16 180:18 arrival 54:18 arrive 52:13 76:22 78:25 arrives 76:22 84:19 article 13:24 14:2,6 15:22 211:1,2 articulated 166:17 ascertain 164:4 166:2 Asia 5:14 aside 64:7 asked 17:10 18:25 22:24 51:6 54:23 179:25 207:9,24 210:5 asking 15:14 86:3 97:23 157:12	associated 13:25 30:6 30:13,15,21,24 33:20 34:7 35:5 51:7,12,13 58:7 65:8 Associates 2:15 60:7 74:17 144:20 assume 37:15,19,22 38:3 78:8 124:25 143:1 168:6 173:5 193:15 assumed 37:8 92:25 129:8 170:10 192:7 assumes 19:6,10 120:21 assumption 118:4 125:5 178:18 192:10,11 194:2,6 198:3,5 assumptions 173:12 182:2 Atkinson 17:16 18:22 19:11,23 21:12 57:11 62:14 75:24 76:4 89:23 90:3	81:16 93:10 98:23 105:7 112:9 114:5 119:11 121:9,12,13 121:17,18 122:11 131:17 132:19 139:12,23 142:2 148:18,22 166:14 187:6 <b>average</b> 8:7,11 9:1,16 12:6 65:18 94:12 124:19 128:2,22,24 129:25 130:3 133:1 133:17 137:25 138:8,9 151:19 152:11 <b>averages</b> 128:4 <b>averaging</b> 8:6 <b>award</b> 57:5 64:19 155:9,16 156:7,15 191:18 <b>aware</b> 16:5,18 21:8 22:21 25:13,16 26:3 26:5 29:18 38:16,18 38:19 44:13,17 48:14,17,18,23 49:16 70:11 80:18 80:20 81:4,6 90:23 103:17,21,25	$\begin{array}{r} 146:16,17\\ \textbf{barriers}\ 43:24\\ \textbf{base}\ 101:2,4\ 173:16\\ \textbf{base}\ 0:12,4\ 173:16\\ \textbf{base}\ 0:14\ 19:19\ 23:2\\ 24:3\ 62:14,19\ 64:2\\ 73:21\ 74:20\ 98:19\\ 101:2\ 102:4\ 107:5\\ 114:15\ 132:25\\ 114:15\ 132:25\\ 147:3,5\ 148:2\\ 150:23\ 156:9\\ 157:19\ 158:8,11\\ 159:7\ 163:7\ 165:10\\ 165:16\ 168:20\\ 170:14,15\ 171:6\\ 185:1\ 186:24\\ 187:17\ 189:2\\ 191:15\ 193:4\\ 195:17\ 196:25\\ 197:1\ 198:7\ 199:6,7\\ 200:7,17\ 201:10\\ 202:20\ 203:5\\ 205:21\ 206:18\\ \textbf{basic}\ 67:5\\ \textbf{basic}\ 67:5\\ \textbf{basic}\ 67:5\\ \textbf{basic}\ 61:5\\ 161:14\\ \textbf{basis}\ 21:1,3\ 43:13\\ 67:9,11\ 86:4\ 105:6\\ \end{array}$	begins 32:4 behalf 97:23 157:12 behind 136:22 215:10 being 13:15 33:20,21 43:25 46:20,21 47:15,16 49:17 84:7 84:8 88:9 95:16 102:10 103:3 114:10 115:6 128:18 132:12 133:5 142:5 154:13 164:13,18 168:22 170:15 173:18 176:5 178:21 184:15 186:2 187:24 199:9,10 200:21 207:9 212:5 213:2 belabour 208:18 belief 4:17,21 56:12 56:16 87:12 145:3,7 145:10 believe 21:12 22:3 25:5 32:23,24 34:23 37:12 47:24 51:18 60:18,24 61:14,21 62:17 63:18,24 64:22 65:19 68:22
201:4,8,14,17 203:13 appraised 63:4 appreciate 55:5 137:23 189:1 210:21 approach 23:5 49:9 68:13 71:3 137:10 146:23,24,25 147:3 150:11 152:11 153:6 157:16 158:9 159:5,7 160:21 161:14 192:1 199:6 appropriate 6:22 14:22 63:4 65:19 78:24 101:7 122:5 142:5 147:11 156:11 157:15 172:3 187:19 189:4 189:7,11 197:16 200:15,21 appropriations 46:20 approvals 47:7,10,11 47:19,25 48:2,6 approve 210:24 approvimate 78:1,18 155:24 April 189:22	argument 154:22 155:7,21 206:1 arguments 148:20 arise 37:2 around 32:12,18 52:21 61:23 85:2,3 95:19 101:12 124:12 127:19 139:8 183:12 arrangement 177:6,8 177:9,16,19 178:4 178:16 180:18 arrival 54:18 arrive 52:13 76:22 78:25 arrives 76:22 84:19 article 13:24 14:2,6 15:22 211:1,2 articulated 166:17 ascertain 164:4 166:2 Asia 5:14 aside 64:7 asked 17:10 18:25 22:24 51:6 54:23 179:25 207:9,24 210:5 asking 15:14 86:3 97:23 157:12 171:23 206:5	associated 13:25 30:6 30:13,15,21,24 33:20 34:7 35:5 51:7,12,13 58:7 65:8 Associates 2:15 60:7 74:17 144:20 assume 37:15,19,22 38:3 78:8 124:25 143:1 168:6 173:5 193:15 assumed 37:8 92:25 129:8 170:10 192:7 assumes 19:6,10 120:21 assumpt 21:2 43:10 44:15,18 127:13 129:15 assumption 118:4 125:5 178:18 192:10,11 194:2,6 198:3,5 assumptions 173:12 182:2 Atkinson 17:16 18:22 19:11,23 21:12 57:11 62:14 75:24 76:4 89:23 90:3 91:18 92:4,23,25	81:16 93:10 98:23 105:7 112:9 114:5 119:11 121:9,12,13 121:17,18 122:11 131:17 132:19 139:12,23 142:2 148:18,22 166:14 187:6 <b>average</b> 8:7,11 9:1,16 12:6 65:18 94:12 124:19 128:2,22,24 129:25 130:3 133:1 133:17 137:25 138:8,9 151:19 152:11 <b>averages</b> 128:4 <b>averaging</b> 8:6 <b>award</b> 57:5 64:19 155:9,16 156:7,15 191:18 <b>aware</b> 16:5,18 21:8 22:21 25:13,16 26:3 26:5 29:18 38:16,18 38:19 44:13,17 48:14,17,18,23 49:16 70:11 80:18 80:20 81:4,6 90:23 103:17,21,25 105:12 110:20	$\begin{array}{r} 146:16,17\\ \textbf{barriers}\ 43:24\\ \textbf{base}\ 101:2,4\ 173:16\\ \textbf{base}\ 0:12,4\ 173:16\\ \textbf{base}\ 0:14\ 19:19\ 23:2\\ 24:3\ 62:14\ 19:19\ 23:2\\ 24:3\ 62:14\ 19:19\ 23:2\\ 24:3\ 62:14\ 19:19\ 23:2\\ 101:2\ 102:4\ 107:5\\ 114:15\ 132:25\\ 114:15\ 132:25\\ 147:3,5\ 148:2\\ 150:23\ 156:9\\ 157:19\ 158:8,11\\ 159:7\ 163:7\ 165:10\\ 165:16\ 168:20\\ 170:14,15\ 171:6\\ 185:1\ 186:24\\ 187:17\ 189:2\\ 191:15\ 193:4\\ 195:17\ 196:25\\ 197:1\ 198:7\ 199:6,7\\ 200:7,17\ 201:10\\ 202:20\ 203:5\\ 205:21\ 206:18\\ \textbf{basic}\ 67:5\\ \textbf{basic 67:5}\\ \textbf{basic 67:5}\\ \textbf{basic 67:5}\\ \textbf{basic 61:14}\\ \textbf{basis 21:1,3\ 43:13}\\ 67:9,11\ 86:4\ 105:6\\ 112:5,12\ 114:2\\ \end{array}$	begins 32:4 behalf 97:23 157:12 behind 136:22 215:10 being 13:15 33:20,21 43:25 46:20,21 47:15,16 49:17 84:7 84:8 88:9 95:16 102:10 103:3 114:10 115:6 128:18 132:12 133:5 142:5 154:13 164:13,18 168:22 170:15 173:18 176:5 178:21 184:15 186:2 187:24 199:9,10 200:21 207:9 212:5 213:2 belabour 208:18 belief 4:17,21 56:12 56:16 87:12 145:3,7 145:10 believe 21:12 22:3 25:5 32:23,24 34:23 37:12 47:24 51:18 60:18,24 61:14,21 62:17 63:18,24 64:22 65:19 68:22 79:16 80:16 82:3
201:4,8,14,17 203:13 appraised 63:4 appreciate 55:5 137:23 189:1 210:21 approach 23:5 49:9 68:13 71:3 137:10 146:23,24,25 147:3 150:11 152:11 153:6 157:16 158:9 159:5,7 160:21 161:14 192:1 199:6 appropriate 6:22 14:22 63:4 65:19 78:24 101:7 122:5 142:5 147:11 156:11 157:15 172:3 187:19 189:4 189:7,11 197:16 200:15,21 approvals 47:7,10,11 47:19,25 48:2,6 approved 81:13 approved 81:13 approximate 78:1,18 155:24 April 189:22 aquifer 7:17	argument 154:22 155:7,21 206:1 arguments 148:20 arise 37:2 around 32:12,18 52:21 61:23 85:2,3 95:19 101:12 124:12 127:19 139:8 183:12 arrangement 177:6,8 177:9,16,19 178:4 178:16 180:18 arrival 54:18 arrive 52:13 76:22 78:25 arrives 76:22 84:19 article 13:24 14:2,6 15:22 211:1,2 articulated 166:17 ascertain 164:4 166:2 Asia 5:14 aside 64:7 asked 17:10 18:25 22:24 51:6 54:23 179:25 207:9,24 210:5 asking 15:14 86:3 97:23 157:12 171:23 206:5 aspect 80:1 141:19	associated 13:25 30:6 30:13,15,21,24 33:20 34:7 35:5 51:7,12,13 58:7 65:8 Associates 2:15 60:7 74:17 144:20 assume 37:15,19,22 38:3 78:8 124:25 143:1 168:6 173:5 193:15 assumed 37:8 92:25 129:8 170:10 192:7 assumes 19:6,10 120:21 assumption 118:4 125:5 178:18 192:10,11 194:2,6 198:3,5 assumptions 173:12 182:2 Atkinson 17:16 18:22 19:11,23 21:12 57:11 62:14 75:24 76:4 89:23 90:3 91:18 92:4,23,25 94:5 100:4,19,25	81:16 93:10 98:23 105:7 112:9 114:5 119:11 121:9,12,13 121:17,18 122:11 131:17 132:19 139:12,23 142:2 148:18,22 166:14 187:6 <b>average</b> 8:7,11 9:1,16 12:6 65:18 94:12 124:19 128:2,22,24 129:25 130:3 133:1 133:17 137:25 138:8,9 151:19 152:11 <b>averages</b> 128:4 <b>averaging</b> 8:6 <b>award</b> 57:5 64:19 155:9,16 156:7,15 191:18 <b>aware</b> 16:5,18 21:8 22:21 25:13,16 26:3 26:5 29:18 38:16,18 38:19 44:13,17 48:14,17,18,23 49:16 70:11 80:18 80:20 81:4,6 90:23 103:17,21,25 105:12 110:20 111:3 127:9,16	146:16,17 <b>barriers</b> 43:24 <b>base</b> 101:2,4 173:16 <b>based</b> 6:14 19:19 23:2 24:3 62:14,19 64:2 73:21 74:20 98:19 101:2 102:4 107:5 114:15 132:25 147:3,5 148:2 150:23 156:9 157:19 158:8,11 159:7 163:7 165:10 165:16 168:20 170:14,15 171:6 185:1 186:24 187:17 189:2 191:15 193:4 195:17 196:25 197:1 198:7 199:6,7 200:7,17 201:10 202:20 203:5 205:21 206:18 <b>basic</b> 67:5 <b>basically</b> 52:13,14,25 99:19 119:6 160:15 161:14 <b>basis</b> 21:1,3 43:13 67:9,11 86:4 105:6 112:5,12 114:2 116:9 129:11	$\begin{array}{l} \mbox{begins 32:4} \\ \mbox{behalf 97:23 157:12} \\ \mbox{43:25 46:20,21} \\ \mbox{47:15,16 49:17 84:7} \\ \mbox{84:8 88:9 95:16} \\ \mbox{102:10 103:3} \\ \mbox{114:10 115:6} \\ \mbox{128:18 132:12} \\ \mbox{133:5 142:5 154:13} \\ \mbox{164:13,18 168:22} \\ \mbox{170:15 173:18} \\ \mbox{176:5 178:21} \\ \mbox{184:15 186:2} \\ \mbox{187:24 199:9,10} \\ \mbox{200:21 207:9 212:5} \\ \mbox{213:2} \\ \mbox{belabour 208:18} \\ \mbox{believe 21:12 22:3} \\ \mbox{25:5 32:23,24 34:23} \\ \mbox{37:12 47:24 51:18} \\ \mbox{60:18,24 61:14,21} \\ \mbox{62:27 63:18,24} \\ \mbox{64:22 65:19 68:22} \\ \mbox{79:16 80:16 82:3} \\ \mbox{89:12 99:13 141:12} \\ \end{array}$
201:4,8,14,17 203:13 appraised 63:4 appreciate 55:5 137:23 189:1 210:21 approach 23:5 49:9 68:13 71:3 137:10 146:23,24,25 147:3 150:11 152:11 153:6 157:16 158:9 159:5,7 160:21 161:14 192:1 199:6 appropriate 6:22 14:22 63:4 65:19 78:24 101:7 122:5 142:5 147:11 156:11 157:15 172:3 187:19 189:4 189:7,11 197:16 200:15,21 appropriations 46:20 approvals 47:7,10,11 47:19,25 48:2,6 approve 210:24 approved 81:13 approximate 78:1,18 155:24 April 189:22 aquifer 7:17 arbitrarily 122:11,12	argument 154:22 155:7,21 206:1 arguments 148:20 arise 37:2 around 32:12,18 52:21 61:23 85:2,3 95:19 101:12 124:12 127:19 139:8 183:12 arrangement 177:6,8 177:9,16,19 178:4 178:16 180:18 arrivel 54:18 arrive 52:13 76:22 78:25 arrives 76:22 84:19 article 13:24 14:2,6 15:22 211:1,2 articulated 166:17 ascertain 164:4 166:2 Asia 5:14 aside 64:7 asked 17:10 18:25 22:24 51:6 54:23 179:25 207:9,24 210:5 asking 15:14 86:3 97:23 157:12 171:23 206:5 aspect 80:1 141:19 aspects 211:5,7	associated 13:25 30:6 30:13,15,21,24 33:20 34:7 35:5 51:7,12,13 58:7 65:8 Associates 2:15 60:7 74:17 144:20 assume 37:15,19,22 38:3 78:8 124:25 143:1 168:6 173:5 193:15 assumed 37:8 92:25 129:8 170:10 192:7 assumes 19:6,10 120:21 assuming 21:2 43:10 44:15,18 127:13 129:15 assumption 118:4 125:5 178:18 192:10,11 194:2,6 198:3,5 assumptions 173:12 182:2 Atkinson 17:16 18:22 19:11,23 21:12 57:11 62:14 75:24 76:4 89:23 90:3 91:18 92:4,23,25 94:5 100:4,19,25 101:9 108:3 109:11	81:16 93:10 98:23 105:7 112:9 114:5 119:11 121:9,12,13 121:17,18 122:11 131:17 132:19 139:12,23 142:2 148:18,22 166:14 187:6 <b>average</b> 8:7,11 9:1,16 12:6 65:18 94:12 124:19 128:2,22,24 129:25 130:3 133:1 133:17 137:25 138:8,9 151:19 152:11 <b>averages</b> 128:4 <b>averaging</b> 8:6 <b>award</b> 57:5 64:19 155:9,16 156:7,15 191:18 <b>aware</b> 16:5,18 21:8 22:21 25:13,16 26:3 26:5 29:18 38:16,18 38:19 44:13,17 48:14,17,18,23 49:16 70:11 80:18 80:20 81:4,6 90:23 103:17,21,25 105:12 110:20 111:3 127:9,16 166:18 168:12,15	$\begin{array}{c} 146:16,17\\ \textbf{barriers}\ 43:24\\ \textbf{base}\ 101:2,4\ 173:16\\ \textbf{base}\ 0:14:19:19\ 23:2\\ 24:3\ 62:14,19\ 64:2\\ 73:21\ 74:20\ 98:19\\ 101:2\ 102:4\ 107:5\\ 114:15\ 132:25\\ 147:3,5\ 148:2\\ 150:23\ 156:9\\ 157:19\ 158:8,11\\ 159:7\ 163:7\ 165:10\\ 165:16\ 168:20\\ 170:14,15\ 171:6\\ 185:1\ 186:24\\ 187:17\ 189:2\\ 191:15\ 193:4\\ 195:17\ 196:25\\ 197:1\ 198:7\ 199:6,7\\ 200:7,17\ 201:10\\ 202:20\ 203:5\\ 205:21\ 206:18\\ \textbf{basic}\ 67:5\\ \textbf{basically}\ 52:13,14,25\\ 99:19\ 119:6\ 160:15\\ 161:14\\ \textbf{basis}\ 21:1,3\ 43:13\\ 67:9,11\ 86:4\ 105:6\\ 112:5,12\ 114:2\\ 116:9\ 129:11\\ 131:16\ 135:6\\ \end{array}$	begins 32:4 behalf 97:23 157:12 behind 136:22 215:10 being 13:15 33:20,21 43:25 46:20,21 47:15,16 49:17 84:7 84:8 88:9 95:16 102:10 103:3 114:10 115:6 128:18 132:12 133:5 142:5 154:13 164:13,18 168:22 170:15 173:18 176:5 178:21 184:15 186:2 187:24 199:9,10 200:21 207:9 212:5 213:2 belabour 208:18 belief 4:17,21 56:12 56:16 87:12 145:3,7 145:10 believe 21:12 22:3 25:5 32:23,24 34:23 37:12 47:24 51:18 60:18,24 61:14,21 62:17 63:18,24 64:22 65:19 68:22 79:16 80:16 82:3 89:12 99:13 141:12 158:24 162:25
201:4,8,14,17 203:13 appraised 63:4 appreciate 55:5 137:23 189:1 210:21 approach 23:5 49:9 68:13 71:3 137:10 146:23,24,25 147:3 150:11 152:11 153:6 157:16 158:9 159:5,7 160:21 161:14 192:1 199:6 appropriate 6:22 14:22 63:4 65:19 78:24 101:7 122:5 142:5 147:11 156:11 157:15 172:3 187:19 189:4 189:7,11 197:16 200:15,21 approvals 47:7,10,11 47:19,25 48:2,6 approved 81:13 approved 81:13 approximate 78:1,18 155:24 April 189:22 aquifer 7:17	argument 154:22 155:7,21 206:1 arguments 148:20 arise 37:2 around 32:12,18 52:21 61:23 85:2,3 95:19 101:12 124:12 127:19 139:8 183:12 arrangement 177:6,8 177:9,16,19 178:4 178:16 180:18 arrival 54:18 arrive 52:13 76:22 78:25 arrives 76:22 84:19 article 13:24 14:2,6 15:22 211:1,2 articulated 166:17 ascertain 164:4 166:2 Asia 5:14 aside 64:7 asked 17:10 18:25 22:24 51:6 54:23 179:25 207:9,24 210:5 asking 15:14 86:3 97:23 157:12 171:23 206:5 aspect 80:1 141:19	associated 13:25 30:6 30:13,15,21,24 33:20 34:7 35:5 51:7,12,13 58:7 65:8 Associates 2:15 60:7 74:17 144:20 assume 37:15,19,22 38:3 78:8 124:25 143:1 168:6 173:5 193:15 assumed 37:8 92:25 129:8 170:10 192:7 assumes 19:6,10 120:21 assumption 118:4 125:5 178:18 192:10,11 194:2,6 198:3,5 assumptions 173:12 182:2 Atkinson 17:16 18:22 19:11,23 21:12 57:11 62:14 75:24 76:4 89:23 90:3 91:18 92:4,23,25 94:5 100:4,19,25	81:16 93:10 98:23 105:7 112:9 114:5 119:11 121:9,12,13 121:17,18 122:11 131:17 132:19 139:12,23 142:2 148:18,22 166:14 187:6 <b>average</b> 8:7,11 9:1,16 12:6 65:18 94:12 124:19 128:2,22,24 129:25 130:3 133:1 133:17 137:25 138:8,9 151:19 152:11 <b>averages</b> 128:4 <b>averaging</b> 8:6 <b>award</b> 57:5 64:19 155:9,16 156:7,15 191:18 <b>aware</b> 16:5,18 21:8 22:21 25:13,16 26:3 26:5 29:18 38:16,18 38:19 44:13,17 48:14,17,18,23 49:16 70:11 80:18 80:20 81:4,6 90:23 103:17,21,25 105:12 110:20 111:3 127:9,16	146:16,17 <b>barriers</b> 43:24 <b>base</b> 101:2,4 173:16 <b>based</b> 6:14 19:19 23:2 24:3 62:14,19 64:2 73:21 74:20 98:19 101:2 102:4 107:5 114:15 132:25 147:3,5 148:2 150:23 156:9 157:19 158:8,11 159:7 163:7 165:10 165:16 168:20 170:14,15 171:6 185:1 186:24 187:17 189:2 191:15 193:4 195:17 196:25 197:1 198:7 199:6,7 200:7,17 201:10 202:20 203:5 205:21 206:18 <b>basic</b> 67:5 <b>basically</b> 52:13,14,25 99:19 119:6 160:15 161:14 <b>basis</b> 21:1,3 43:13 67:9,11 86:4 105:6 112:5,12 114:2 116:9 129:11	$\begin{array}{l} \mbox{begins 32:4} \\ \mbox{behalf 97:23 157:12} \\ \mbox{43:25 46:20,21} \\ \mbox{47:15,16 49:17 84:7} \\ \mbox{84:8 88:9 95:16} \\ \mbox{102:10 103:3} \\ \mbox{114:10 115:6} \\ \mbox{128:18 132:12} \\ \mbox{133:5 142:5 154:13} \\ \mbox{164:13,18 168:22} \\ \mbox{170:15 173:18} \\ \mbox{176:5 178:21} \\ \mbox{184:15 186:2} \\ \mbox{187:24 199:9,10} \\ \mbox{200:21 207:9 212:5} \\ \mbox{213:2} \\ \mbox{belabour 208:18} \\ \mbox{believe 21:12 22:3} \\ \mbox{25:5 32:23,24 34:23} \\ \mbox{37:12 47:24 51:18} \\ \mbox{60:18,24 61:14,21} \\ \mbox{62:27 63:18,24} \\ \mbox{64:22 65:19 68:22} \\ \mbox{79:16 80:16 82:3} \\ \mbox{89:12 99:13 141:12} \\ \end{array}$

Anne-Marie Stallard for Trevor McGowan

Page 2

# Discovery Global LLC -v- Slovak Republic ICSID Case No. ARB/21/51

# Tuesday, 6 February 2024

benchmark 95:16         151:6,7 187:15         case 1:3 23:1 26:10         136:24 137:16         157:12 158:5,21           119:17         188:20 204:21         C         29:20 33:8 42:12         140:8,8,24 196:13         159:9,12 161:1           benchmarking 6:6,17         211:21 212:13         C 106:24 108:8         62:21 63:6 73:23,25         200:23 201:3,13         166:13 176:3           9:8,10,20 14:23         bottom 11:8,10 25:3         35:7 45:19 88:18         62:21 63:6 73:23,25         200:23 201:3,13         185:22 187:1,10,16           9:12 93:10 115:10         35:7 45:19 88:18         94:18 97:12 100:25         67:24 94:6 140:24         82:12 83:5,5 92:25         chances 114:10 115:5         211:12 213:5,17           beneficial 2:2         109:16 134:11         158:25 159:6         101:18 104:22         115:7         clainsts 154:22           benefit 2:3 40:6         199:21 201:25         161:21,24,25 199:5         105:2,16,17,20         change 4:2 79:23         183:4		-				
IBJ:16182:13.20         Incrvsving 158:25         Id74/25190:18         Carpenhans 9:22         ID1:15188:14         Carling 052:22         Carpenhans 9:22         Dist 1:16:22:16         Dist 2:16:16:15:22:12         Dist 2:16:16:15:22:12         Dist 2:16:16:15:22:12         Dist 2:16:16:15:22:12:12         Dist 2:16:16:15:16:16:16:16:16:16:16:16:16:16:16:16:16:	168:11 173:5,15	borrow 156:3	73:23,24 74:7,25	9:11 10:13 12:4	challenged 60:25 99:4	203:19,22 206:7
182:22 183:19         156:5.0 <sup>°</sup> 152:152 153:8         152:152 153:8         152:152 153:8         152:152 153:8         152:152 153:8         152:152 153:8         152:152 153:8         152:152 153:8         153:158:152 153:8         153:158:152 153:8         153:158:152 153:8         153:158:152 153:8         153:158:152 153:8         153:158:152 153:8         153:158:152 153:8         153:158:153:153:153:153:153:153:153:153:153:153	175:21 180:15	borrowed 156:4	77:8,12,12 78:24	88:14 97:6,6 119:21	136:16 169:3,23	209:17,18,22
185:18,19         187:23         193:14         194:23         193:14         194:23         193:14         194:23         193:14         194:23         193:14         194:23         193:14         194:22         193:14         194:23         193:14         194:22         193:14         194:22         193:14         194:22         193:14         194:22         194:14         194:22         194:14         194:22         194:14         194:22         194:14         194:22         194:14         194:22         194:14         194:22         194:14         194:22         194:14         194:	181:16 182:13,20	borrowing 155:25	147:4,25 149:18	Carpathians 9:22	171:15 188:14	claimant 1:16 2:2 3:6
187:23 192:13         both 2:10 6:18 7:15.25         187:16 192-22         110:17 10:73.8         charce \$21.21 28.22         10:17 10:73.8           193:14 194:4 205:1         14:33 18:4 192.2         2003:1.16         131:23 12:20         192:22 11:34.22         10:27,115:11         131:23 12:20         192:22 11:34.22         10:27,115:11         131:23 12:20         192:21 13:13,19         10:53,11,13:19         10:53,11,153	182:22 183:19	156:5,9	152:15,25 153:8	11:6 115:16	212:6	71:10 74:15 90:12
187:23 192:13         both 2:10 6:18 7:15.25         187:16 192-22         110:17 10:73.8         charce \$21.21 28.22         10:17 10:73.8           193:14 194:4 205:1         14:33 18:4 192.2         2003:1.16         131:23 12:20         192:22 11:34.22         10:27,115:11         131:23 12:20         192:22 11:34.22         10:27,115:11         131:23 12:20         192:21 13:13,19         10:53,11,13:19         10:53,11,153	185:18,19 187:5,22	borrowings 177:1	163:25 186:22,25	carried 98:24 99:3	challenging 202:23	91:13,15 97:24
believe 63: 177.3         31:6 30:4 59:2.1         200:141.6         13:4:6 109:5.18         42:2.5 57:1.12.29         10:5.3.17.13.19           believes 63: 17.77         165:8 221 03:17         10:5.2.1 05:14.17.13         10:5.3.17.13.19         10:5.3.17.13.19         10:5.3.17.13.19           BEN 2.5         145:16 147.22         bying 167:14         cmr 79:12         13:2.2.1 13:4.16         13:5.5.2.3.15 66.3.15           Denchmark 99:16.01         11:6.1 17:12.4         cmr 79:12         13:2.2.1 13:4.16         15:5.2.3.15 66.3.15           99:10.29:10 15:10         15:8.2.0 20:4.2         cmr 79:12         cmr 79:12         13:2.2.1 13:4.16         15:5.2.2.1 13:5.1.16           99:10 29:10 15:10         57:45:19 88.18         cmr 79:12         65:2.2.1 06:13         14:0.17.2.2.1.15:8.8         cmr 79:12.2.13:5.1.16         15:5.2.2.1 06:1.1           99:10 29:10 15:10         57:45:19 88.18         cmr 79:12.2.10:5.1.7.0         cmr 79:12.2.10:		<b>both</b> 2:10 6:18 7:15,25	187:16 192:22	110:17 115:11		101:17 103:7,8
believed 82: 173:3         31:6 394 59:3.21         2001:14.16         13:4:6 169:5.18         42:25 57:11.229         10:5.3.17.13.19           believes 65: 31:7.71         10:4:2 13:29 13:25         10:5.3.2         10:5.3.2         10:5.3.2         10:5.3.2         10:5.3.2         10:5.3.2         10:5.3.1         19:4.2         10:5.3.1         19:4.1         10:5.3.2         10:5.3.1         19:4.2         10:5.3.1         19:4.2         10:5.3.1         10:5.3.2         10:5.3.1         10:5.3.2         10:5.3.1         10:5.3.2         10:5.3.1         10:5.3.2         10:5.3.1         10:5.3.2         10:5.3.1         10:5.3.2         10:5.3.1         10:5.3.1         10:5.3.1         10:5.3.1         10:5.3.1         10:5.3.1         10:5.3.1         10:5.3.1         10:5.3.1         10:5.3.1         10:5.3.1         10:5.3.1         10:5.3.1         10:5.3.1 <td< td=""><td></td><td>-</td><td>193:1,10,19 194:11</td><td>131:22 132:20</td><td></td><td>104:7,8,11,17,25</td></td<>		-	193:1,10,19 194:11	131:22 132:20		104:7,8,11,17,25
believes 613 172.7 before 133 17			200:14,16			105:3,11,13,19
below Sk11 12717 104-21329 13325 1653 $20021$ 94-2414131311 144 140 1050.315 BKN 225 144516 147522 144516 1555.71 14584 1441320 1427 15712 145316 1552.21 14516 14752 14516 1555.71 145854 145316 1555.71 145854 145316 1555.71 145854 145316 1555.71 145854 145316 1555.71 145854 145316 1555.71 145854 145316 1555.71 145854 145316 1555.71 145854 145316 1457115 14562 14516 1457115 14562 14516 1457115 14562 14516 1457115 14562 14516 1457115 14562 14516 1457115 14562 14516 1457115 14562 14561 1457 1155 14512 14517 1155 14522 14516 1452 14517 1155 14522 14517 1456 1457115 14562 14561 1457 1155 14522 14517 1456 1457115 14562 14516 1452 14517 1155 14522 14517 1456 1452 14517 1456 1457 1155 1452 14517 1456 1457 1155 1452 14517 1456 1457 1155 1452 14517 1456 14517 1155 1452 14517 1456 1457 1458 14592 14517 1456 1452 14562 14517 1456 1452 14562				-		
				200:21		
BEN 2:5         145:16 147:22         buying 167:14         currying 102:5         135:32.0165:10         155:52.21 162:315:52           119:17         188:30 204:21         136:24 137:16         155:52.21 162:31:17:63         157:12 158:52:1           98:10.20 14:23         bottom 118:10 25:33         case 13:33:12:6:10         136:24 137:16         159:92:12 161:1           90:12 98:10 1510         37:64 519 88:18         calculats 57:34:45:8         747:37:78 78:24         2002:3 20:13:1         185:22 187:1,10:16           90:12 98:10 1510         37:64 198:11         52:21 162:21         107:12 13:52:21 187:1         106:13 17:63           90:12 98:10 17154         bottom 11:8:10 25:3         calculats 57:34:45:8         747:37:78 78:24         chances 11:40:11:5         21:11:21 23:5:7           114:16 17 154         borecket 10:3         reachitat 62:35:10         106:4:17:20:37:45:10         106:4:17:20:37:45:10         106:4:17:20:37:45:10         106:4:17:20:37:45:10         106:13:10:5:10         106:13:10:5:10         106:13:10:5:10         106:13:10:5:10         106:13:10:5:10         106:13:10:5:10         106:14:10:72:2         106:13:10:6:4:6:10         113:5:2:10:10         106:13:10:5:10         106:14:10:10         106:14:11:10         106:14:10:10         106:14:11:10:10         106:14:10:10         106:12:10:10         106:12:10:10         106:12:10:10			buyer 148:25 172:6	carry 79:12		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		-			135:3,8,20 136:5,10	155:5,23 156:2,3,15
benchmarking 66,17         211:21 21:21:3         C 106:24 1088         43:10.22 53:25 61:1         196:02 197:3 199:8         166:13 176:3           99:10,20 14:23         bottom 11:8,10 25:3         35:7 45:19 88:18         and: 13:10         62:21 63:6 73:32:32         20023 2013;31         185:22 115:6         185:25 115:6         185:25 116:6         74:7,25 778,78:24         20073 10:41:15         192:19,20 2067         211:12 21:5;17         211:12 21:5;17         chances 11:4:10         52:11:62         185:25 116:6         10:61:17 0:37:3         185:22 116:2         185:25 116:6         10:61:17 0:37:3         185:22 116:2         185:32 110:11         143:32 14:15;17         145:32 14:15;17         145:32 14:15;17         145:32 14:10:11         143:32 14:15;17         145:32 14:10:14         199:81 10:11         10:16;17 0:37:37         185:82 19:9:0         10:16;17 0:37:37         10:15:17:0:37:37         10:15:17:0:37:37         10:15:17:0:37:37         10:15:17:0:37:37         10:15:17:0:37:37         10:15:17:0:37:37         10:15:17:0:37:37         10:15:17:0:17:0:15:10:17:0:17:0:17:0:17:	benchmark 95:16	151:6,7 187:15	• •	case 1:3 23:1 26:10	136:24 137:16	157:12 158:5,21
benchmarking 66,17         211:21 21:21:3         C 106:24 1088         43:10.22 53:25 61:1         196:02 197:3 199:8         166:13 176:3           99:10,20 14:23         bottom 11:8,10 25:3         35:7 45:19 88:18         and: 13:10         62:21 63:6 73:32:32         20023 2013;31         185:22 115:6         185:25 115:6         185:25 116:6         74:7,25 778,78:24         20073 10:41:15         192:19,20 2067         211:12 21:5;17         211:12 21:5;17         chances 11:4:10         52:11:62         185:25 116:6         10:61:17 0:37:3         185:22 116:2         185:25 116:6         10:61:17 0:37:3         185:22 116:2         185:32 110:11         143:32 14:15;17         145:32 14:15;17         145:32 14:15;17         145:32 14:10:11         143:32 14:15;17         145:32 14:10:14         199:81 10:11         10:16;17 0:37:37         185:82 19:9:0         10:16;17 0:37:37         10:15:17:0:37:37         10:15:17:0:37:37         10:15:17:0:37:37         10:15:17:0:37:37         10:15:17:0:37:37         10:15:17:0:37:37         10:15:17:0:37:37         10:15:17:0:17:0:15:10:17:0:17:0:17:0:17:	119:17	-	C			159:9,12 161:1
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	benchmarking 6:6,17	211:21 212:13		43:10,22 53:25 61:1	196:20 197:3 199:8	166:13 176:3
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	9:8,10,20 14:23	bottom 11:8,10 25:3		62:21 63:6 73:23,25	200:23 201:3,13	185:22 187:1,10,16
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	90:12 93:10 115:10	35:7 45:19 88:18		74:7,25 77:8 78:24	202:7 214:18	192:19,20 206:7
	115:25 116:2			82:12 83:5,5 92:25	chances 114:10 115:5	211:12 213:5,17
	beneficial 2:2	109:16 134:11		101:18 104:22	115:7	claimants 154:22
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					change 4:2 79:23	
best 82:10 008 93:22 bracket 10:17 10:16.17 20:37.43 10:85:6 130:11 14:33 214:15.17 89:6.9.11 90:1.92.01 10:11 14:33 214:15.17 89:6.9.11 90:1.92.01 10:11 14:37 11:15:19 10:11 15:19 11:10:10:17.22 11:10:11.15:19 11:10:11 15:19 11:10:11 15:19 11:10:11 15:19 11:10:11 15:19 11:10:11 15:19 11:10:10:11 15:19 11:10:10:11 15:19 11:10:10:11 15:19 11:10:10:11 15:19 11:10:10:10:19 11:10:10:10:19 11:11 15:19 11:10:10:10:19 11:10:10:10:19 11:10:10:10:19 11:10:10:10:19 11:10:10:10:19 11:10:10:10:19 11:10:10:10:19 11:11 15:19 11:10:10:10:10:19 11:10:10:10:19 11:10:10:10:10:19 11:10:10:10:10:19 11:10:10:10:10:10:10:10:10:10:10:10:10:1					5	Claimant's 88:25 89:3
		5		108:5,6 130:11	-	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $			· · · · · · · · · · · · · · · · · · ·		-	
better 90:5 148:24         55:10,17,22 86:11         134:45,136:17         164:10 177:22         163:22         104:13,15 105:9,14           161:2 164:13,18         86:20 143:18         breakdown 189:24         calculating 17:21 67:8         189:18 196:1.8         characterisation         105:16 106:4.6         117:23 119:20           43:4 64:10 77:14         briefing 189:21         161:20.21         calculation 6:9 8.8         60:16 64:4 71:23         cass 20:6.7         characterisation         128:7,19,23 147:8           100:17 119:17         65:15 14:17 209:1         74:3,8 97:4 116.9         74:21 75:4,12 77:20         140:61 54:13         151:21 52:18           103:13 150:3 153:1         213:20 214:20         133:11,17:22         184:15         cass 20:6.7         Characterisation         156:61 57:168:4           134:15 126:21         breists 1:14 2:6.12         166:17:17:41 145:22         cass 72:6         97:33 12:12:6         176:71 64:22         cass 72:6         97:3,12 123:6         194:21 197:172           135:21 51:25         broad 102:16         20:12 40:21         20:12 20:12         cast 182:4         124:15 12:8:23         170:11 186:25         20:12 20:12         20:18 42:12 12:23         170:11 186:25         187:61 192:23         187:61 192:23         187:61 192:23         187:61 192:23         187:61 192:23         187:61 192:23 <td< td=""><td></td><td></td><td></td><td></td><td>5</td><td></td></td<>					5	
between 11:24 14:24         breakdown 189:24         calculating 17:21 67:8         200:18,20 21:224         143:10 164:5         117:23 119:20           43:4 64:10 97:14         briefing 189:21         161:20,21         calculation 69:88         152:11 159:9         21:31:22         characterisation         121:9:71:92.31 47:20         147:20 149:12,14           100:11 10:54.8         briefing 189:21         161:16:64:71:23         176:45         characterisation         128:71:92.31 47:20         147:20 149:12,14           100:17 119:17         65:15 141:17:20:11         74:38.974:11:69         74:21:75:4.12 77:20         Charles 2:15 60:7         153:29 155:21         153:29 155:21         151:13 152:18         151:13 152:18         170:11 186:25           133:21 15:03 153:1         213:20 21:42:00         156:62 169:21:42         166:17:72:41 33:3.7.8         184:15         charles 2:15 60:7         187:61 69:22:17         170:11 186:25         170:11 186:25           133:21 15:21         broady 129:5         166:22 169:9 21:24         106:12 169:9 21:24         106:13:20 100:15         calculator 137:24					changes 59:11 77:24	105:16 106:4,16
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	between 11:24 14:24	breakdown 189:24		200:18,20 212:24	143:10 164:5	117:23 119:20
84:11 94:16 95:13         briefing 189:21         161:20.21         cases 206:6         21:19 71:4 211:22         147:20 149:12,14           100:21 101:15         briefly 1:16,18 5:19         61:16 64:4 71:23         rases 206:6         21:19 71:4 211:52         147:20 149:12,14           109:17 119:17         65:15 141:72 09:1         74:3,8 97:4 11:69         74:21 75:4,12 77:6         Targed 3:4 139:18,20         149:6 154:13         151:3 152:18           133:1 150:3 153:1         213:20 214:20         133:11,17,22         184:15         east 57:6,18,27         74:17 144:20         156:6 158:7 168:4           172:6 188:10         166:22 169:9 212:4         196:5,7 197:16         casing 52:15 53:6         97:3,12 123:6         194:21 197:17.24           bised 148:3 151:12         broadt 12:16         208:14         categories 207:25         129:48 216:50:10         203:18 21:12.123           binary 185:5.19         build 92:3         196:18 23:23 3:11 35:2         196:18 23:23 3:11 35:2         categories 207:25         catusin 166:11 67:17         207:25           112:35 150:9         build 92:3 3:1 35:2         106:18 13:12         categories 207:25         ca	43:4 64:10 77:14	brief 1:11 56:23		213:1,2		128:7,19,23 147:8
$  \begin{array}{ccccccccccccccccccccccccccccccccccc$	84:11 94:16 95:13	briefing 189:21		cases 206:6	21:19 71:4 211:22	147:20 149:12,14
	100:21 101:15	191:11		cash 57:10,17,20	charged 3:4 139:18,20	149:21 150:20
$\begin{array}{llllllllllllllllllllllllllllllllllll$	104:13 105:4,8	briefly 1:16,18 5:19		60:20,21,22 65:23	140:6 154:13	151:3 152:18
$\begin{array}{llllllllllllllllllllllllllllllllllll$	109:17 119:17	65:15 141:17 209:1		74:21 75:4,12 77:20	Charles 2:15 60:7	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	124:18 126:21	briefs 1:14 2:6,12		149:4 163:9 182:3	74:17 144:20	156:6 158:7 168:4
153:25       154:24       bring 26:25 30:2 53:3       151:14 154:2 196:2       cash-strapped 61:2       94:18 96:5,21.25       187:6 192:23         166:19 169:15       86:14 125:10       196:5,7 197:16       cash-strapped 61:2       94:18 96:5,21.25       194:21 197:17,24         bisaed 148:151:12       broadl 102:16       208:12       208:12       cast 82:4       124:15 128:21       203:18 211:21,23         bigger 93:3,21,23       broads 114:21       56:4 66:9,17 134:1       categorisation 5:12       charts 84:24 88:10       209:9         binary 185:5,19       build 29:3       calculations 6:15       calculator 137:24       cautious 167:7       causes 8:3       checks 175:13       CLAIRE 2:14         bi1:23:56:35:19       build 29:3 30:11       153:12       calculator 137:24       cautious 167:7       caveating 131:20       choose 84:22       42:13 163:24 209:6         52:21 53:79 68:20       49:24 76:18 85:20       211:11 21:17       caveating 131:20       chose 78:376:16       211:6 21:4:4       211:6 21:4:12         70:23 59:514       174:14 20:610       3:18 24:6 52:14       CD-106 81:34:7       77:23 137:10       clariff 65:1:20 21:03         112:18 150:9       built 66:8 98:4.8       56:1 6:31:3 64:13       CD-106 81:34:17       chose 78:76:16       211:6 21:4:4       24:15 2:22:17       clari	133:1 150:3 153:1	213:20 214:20				170:11 186:25
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	153:25 154:24			cash-strapped 61:2	94:18 96:5,21,25	187:6 192:23
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	166:19 169:15			casing 52:15 53:6,8		194:21 197:17,24
biased 148:3 151:12 bid 117:20 bigger 93:3,21,23 129:9         broadly 129:5 brows 14:21 biorows 15:12 biorows 14:21 biorows 14:21 biorows 14:21 biorows 15:12 biorows 15:12 biorows 15:12 biorows 15:12 biorows 14:12:15:12 biorows 15:12 biorows 15:12 b			202:12 205:15			
bid 117:20         broken 114:21         category 208:9,16         96:17         207:25           bigger 93:3,21,23         broogk 98:5         broogk 98:5         203:2         causes 8:3         checkin 206:10         209:9           binary 185:5,19         build 29:3         calculator 137:24         causes 8:3         checkin 206:10         209:9           38:22 45:25 52:16         built 28:25 33:11 35:2         162:18 163:15         caution 166:1 167:13         checks 175:13         clarification 37:9           38:22 45:25 92:16         built 17:6 153:23         called 3:4,16,21 4:1,2         caveating 131:20         choses 84:22         42:13 163:24 209:6           38:2 90:25 95:14         174:14 206:10         31:8 24:6 52:14         CDI-06 8:24 166:11         158:12,14 192:17         clarified 51:20 210:3         clarified 51:20 210:3           112:18 150:9         built 66:8 98:4.8         56:1 63:13 64:13         CD-10 68:24 166:11         158:12,14 192:17         clarified 51:20 210:3           12:05 21 11         burned 52:1         144:14,15 178:22         central 35:1         CHRISTINA 2:12         dearified 51:20 210:3           12:05 22:14:22         burned 52:1         144:14,15 178:22         central 35:1         central 35:1         central 35:1         central 35:1         centre 12:5 110:11         clarified 41:3:25 42:9     <	•		208:14	8		-
bigger 93:3,21,23 129:9         brooks 24:21 brought 98:5         brooks 24:21 brought 98:5         brooks 24:21 196:18,22 197:12 203:2         causation 209:21 causes 8:3         check 181:17 checking 206:10         claims 199:9;10 209:8           binary 185:5,19         build p25:11 50:5         build p25:11 50:5         caluator 137:24 caluator 137:24         causes 8:3         checking 206:10         checking 206:10         209:9           38:22 45:5 52:16         built 28:25 33:11 35:2         built 28:25 33:11 35:2         162:18 163:15         caventing 131:20         choose 84:22         42:13 163:24 209:6           52:21 53:7; 0 68:20         49:24 76:18 85:20         211:11 212:17         called 34:16,21 4:1.2         caventing 131:20         choose 79:6 118:18,19         claimit 99:9;10 209:8           112:18 150:9         bulle 66:8 98:4,8         56:1 63:13 64:13         CD-10 68:24 166:11         158:12,14 192:17         claimit 99:9;10 201:3           202:2 214:22         burn 29:15 30:7 34:9         bosits 13:2 142:21         CD-8 11:1,5         CHris 3:21 86:23,25         elarify 51:23 23:12:23           blew 61         burning 51:14,20.20         burning 51:14,20.20         burning 51:14,20.20         tails 109:12         came 106:18 119:12         careation 138:15         careation 138:15         careation 138:15         careation 138:15         careation 138:15         camation 138:15         careatio			calculations 6:15	U		
T29:9         brought 98:5         D33:2         causes 8:3         checking 206:10         209:9           binary 185:5,19         build 29:3         build 29:3         calulator 137:24         caution 166:1 167:13         checking 206:10         clexing 75:13           bit 1:23 56:45         build 29:3         build 29:3         calulator 137:24         caution 166:1 167:13         checking 206:10         clexing 75:23           38:22 45:25 52:16         built 123:52         s3:11 35:2         162:18 163:15         cautions 167:7         choose 84:22         42:13 163:24 209:6           52:21 53:7.9 68:20         49:24 76:18 85:20         211:11 212:17         caving 52:21         choose 77:6 76:16         211:6 214:4           76:8 78:3 85:2 89:11         built 17:6 153:23         31:84:6 52:14         CDL-14 125:11         choose 77:6 76:16         211:6 214:4           712:18 150:9         built 66:8 98:4,8         56:1 63:13 64:13         CD-10 68:24 166:11         158:12,14 192:17         clarity 209:11           120:22 214:22         burn 29:15 30:7 34:9         86:23 142:21         CD-9 12:22         88:2         39:13,15,22,25           bits 53:1 130:9         burn 44:13:00:11         cauling 77:22         central 35:1         CHRISTINA 2:12         44:12           blobs 117:3,8,10,11         burses 156:16			64:24 66:9,17 134:1			
binary 185:5,19 bit 123:56 35:19 38:22 45:25 52:16 52:21 53:7,9 68:20 76:8 78:3 85:2 89:1 121:18 150:9 112:18 124:12 202:2 214:22 bits 53:1 130:9 bit 73:3,10,11 blocks 8:4,25 bits 33:1 130:9 bit 73:3,10,11 bit 76:12 76:10 106:13 bit 75:16 bits 31:10 correation 173:13 bit 75:15 bits 33:10;124 bits 32:10 bits 31:10;12 bits 32:10 bits 31:10;12 bits 32:10;12 bits 31:10;12 bits 32:10;12 bits 31:10;12 bits 32:10;12 bits 31:10;12 bits 32:10;12 bits 31:10;12 bits 32:10;12 bits 32:10;12 bits 31:10;12 bits 32:10;12 bits 32:10			196:18,22 197:15			
bit 1:23 5:6 35:19 38:22 45:25 52:16 52:21 53:7,9 68:20 52:21 53:7,9 68:20 49:24 76:18 85:20 49:24 76:18 85:20 211:11 212:17 called 3:4,16,21 4:1,2 318 24:6 52:14 56:1 63:13 64:13 202:2 214:22 burned 52:1 144:14,15 178:22 bits 53:1 130:9 burning 51:14,20,20 blew 6:1 blocks 8:4,25 blocks 8:4,25 blocks 8:4,25 blum 75:13 blocks 8:4,25 blum 75:13 blocks 8:4,25 blum 75:13 blom 32:12 174:19 176:20 174:19 176:20 175:17		5	203:2		8	
38:22 45:25 52:16 52:21 53:7,9 68:20       built 28:25 33:11 35:2 49:24 76:18 85:20       call clis15 21:11 121:21:7 called 3:4,16,21 4:1,2 31:8 24:6 52:14       caveating 131:20 caving 52:21       choose 84:22 choose 57:8 76:16       42:13 163:24 209:6 211:6 214:4         76:8 78:3 85:2 89:1 89:2 90:25 95:14       built 12:6:123 174:14 206:10       built 12:2:17 called 3:4,16,21 4:1,2 31:8 24:6 52:14       cDL-008 134:7 CDL-10 68:24 166:11       choose 77:8 76:16 CDL-10 12:11       211:6 214:4 211:6 214:2         112:18 150:9 busits 53:1 130:9       built 66:8 98:4,8 burned 52:1       56:1 63:13 64:13 86:23 142:21       CDL-10 68:24 166:11 CD-10 68:24 166:11       158:12,14 192:17 CD-10 68:24 166:11       clarify 209:11 clarify 209:11         busits 51:1 30:9       burned 52:1 burning 51:14,20,20       181:25 190:6 caving 52:12       CD-10 68:24 166:11 CD-10 68:24 166:11       Chris 3:21 86:23,25 88:2       39:13,15,22,25         blow 6:1 blow 51:9 211:10       burnet 51:3 busies 156:16       calling 27:22 came 106:18 119:12 came 106:18 113:6       circumstance 157:16 cEO 61:7 173:1       classified 43:3 10:124 classified 43:3 10:124         blow 51:2 88:13 90:14       174:19 176:20       173:17 capacities 33:8 capacity 61:7 capita 153:16,18       ceratin 71:28 5:17 capita 153:16,18       circumstances 157:16 capita 153:16,18       claref 17:24:23       claref 14:3:14:29:20         board 111:13 12:17 7:42:25 195:17       3			calculator 137:24			
52:21 53:7,9 68:20       49:24 76:18 85:20       211:11 212:17       caving 52:21       chose 57:8 76:16       211:6 214:4         76:8 78:3 85:2 89:1       bulk 117:6 153:23       174:14 206:10       3:18 24:6 52:14       CDL-008 134:7       77:23 137:10       clariffed 51:20 210:3         89:2 90:25 95:14       174:14 206:10       3:18 24:6 52:14       56:1 63:13 64:13       CD-10 68:24 166:11       CDL-14 125:11       clariffed 51:20 210:3       clariffed 51:20 210:3         181:25 190:11       burn 29:15 30:7 34:9       b6:23 142:21       CD-10 68:24 166:11       CD-16 68:24 166:11       Chris 3:21 86:23,25       clariffed 51:20 210:3         202:2 214:22       burning 51:14,20,20       18:125 190:6       centrally 32:11       central 35:1       CHRISTINA 2:12       40:16 41:3,25 42:9         blobs 117:3,8,10,11       burses 156:16       calling 27:22       central 12:11:11       central 12:11       central 12:11       central 12:11       classifications 41:21         blow 31:9 211:10       business 156:16       camadian 138:15       canadian 138:15       canadian 138:15       canadian 138:15       canadian 138:15       canadian 138:16       ceratin 71:2 85:17       172:1 184:11       127:18 153:13         BM04 132:4,11       but-for 21:1,3 23:1       30:14,19 33:9 34:3       cate 157:23 75:8 76:4       71:15 91:11       cite 48:9 146:8,9<						
76:8 78:3 85:2 89:1 89:2 90:25 95:14bulk 117:6 153:23 174:14 206:10called 31:4,16,21 4:1,2 3:18 24:6 52:14 56:1 63:13 64:13CDL-008 134:7 CDL-14 125:11 CD-10 68:24 166:1177:23 137:10 chosen 79:6 118:18,19 158:12,14 192:17 clarify 51:23 clarify 5			162:18 163:15	0		
89:2 90:25 95:14174:14 206:1013:18 24:6 52:14CDL-14 125:11chosen 79:6 118:18,19clarify 51:23112:18 150:9bullet 66:8 98:4,8burn 29:15 30:7 34:9burned 52:156:1 63:13 64:1386:23 142:21CD-8 11:1,5Chris 3:21 86:23,25clarify 51:23202:2 214:22burned 52:1burning 51:14,20,20burning 51:14,20,20144:14,15 178:22138:25 190:688:239:13,15,22,25bits 53:1 30:9burning 51:14,20,20181:25 190:6central 35:1CHRISTINA 2:1240:16 41:3,25 42:9blew 6:1burnet 5:13calling 27:22calling 10:12central 35:1circles 81:344:12bloks 117:3,8,10,11business 156:16calling 10:12campaign 6:12 18:15century 113:6circumstance 157:16classifications 41:21blow 35:19 211:0businessman 173:13can 20:16 23:5CEO 61:7 173:1circumstances 171:2151:18 74:11 76:7BM01 132:10businessman 173:13cap 7:17capacities 33:886:1 101:11 160:24citz 24:6 155:5 201:11185:3 209:17BM04 132:4,11but-for 21:1,3 23:1capacities 33:8capatil 153:16,18159:13,21citzens 48:15,18clawin 44:3,16 29:20Boggs 2:9,9,10,10,1144:10,22,24 45:376:10 106:1776:10 106:1776:10 106:1771:15 91:11153:20 154:23,24clawe 32:24 61:5Citc 157:15close 32:24 61:5cercal 16:10close 32:24 61:5close 32:24 61:5				8		
112:18 150:9 181:25 190:11 202:2 214:22bullet 66:8 98:4,8 burn 29:15 30:7 34:9 burned 52:1158:16 3:13 64:13 56:1 63:13 64:13 26:23 142:21 144:14,15 178:22 181:25 190:6 calling 27:22 calling 27:21 calling 27:22 calling 27:21 calling 27:21 calling 27:25 calling 27:21 calling 27:21 calling 27:21 calling 27:21 calling 27:21 calling 27:25 calling 27:17 calling 28:17 calling 28:18 calling 28:25 calling 28:25 calling 28:25 calling 28:25 calling 28:25 calling 28:25 calling 28:25 calling 28:25 calling						
181:25 190:11       burn 29:15 30:7 34:9       b0:105:13 42:21       CD-8 11:1,5       Chris 3:21 86:23,25       classification 5:11         202:2 214:22       burned 52:1       burning 51:14,20,20       144:14,15 178:22       144:14,15 178:22       181:25 190:6       centrally 32:11       86:23 142:21       39:13,15,22,25         blew 6:1       burnt 14:1 30:11       Burren 5:13       calling 27:22       centrally 32:11       circles 91:25 110:11       102:10         blocks 8:4,25       businest 156:16       campaign 6:12 18:15       centry 113:6       circumstance 157:16       classifications 41:21         blum 78:4       178:23       Canadian 138:15       certain 71:2 85:17       certain 71:2 85:17       172:1 184:1       127:18 153:13         BM01 132:10       businessman 173:13       agacities 33:8       86:1 101:11 160:24       cite 24:6 155:5 201:11       185:3 209:17         BM04 132:4,11       but-for 21:1,3 23:1       agacities 33:8       capacity 61:7       capacity 61:7       capacity 61:7       certain 12:24:79:33       citae 48:9 146:8,9       212:18         74:25 195:17       42:19 43:10,22       161:24       certain 27:23 75:8 76:4       71:15 91:11       citae 48:9 146:2,24       citae 16:1:10       citae 32:24 61:5         block 51:17       12:1       57:6 62:21 63:6       76:10 106:17						
202:2 214:22       burned 52:1       burning 51:14,20,20       144:14,15 178:22       CD-9 12:22       88:2       39:13,15,22,25         bits 53:1 130:9       burning 51:14,20,20       burning 51:14,20,20       148:125 190:6       central 35:1       CHRISTINA 2:12       40:16 41:3,25 42:9         blow 6:1       burnet 5:13       busiest 13:7       calling 27:22       calling 27:22       central 35:1       circles 91:25 110:11       102:10         blow 35:19 211:10       business 156:16       campaign 6:12 18:15       20:16 23:5       century 113:6       circumstance 157:16       classified 43:3 101:24         blun 78:4       178:23       businessman 173:13       178:23       Canadian 138:15       certain 71:2 85:17       172:1 184:1       127:18 163:13         BM04 132:4,11       but-for 21:1,3 23:1       30:14,19 33:9 34:3       40:22 42:3,4,12,14       159:3,3,10 161:22       161:24       certain 71:28 5:17       172:1 184:1       127:18 153:13         boggs 2:9,9,10,10,11       44:10,22,24 45:3       57:6 62:21 63:6       76:10 106:17       71:15 91:11       153:20 154:23,24       clearly 14:3,16 29:20         certain 174:9       155:12       101:11 160:24       certain 174:9       153:20 154:23,24       clearly 14:3,16 29:20         burnet 74:2       62:16 3:6       76:10 106:17       71:15 91:11					-	
bits 53:1 130:9       burning 51:14,20,20       life(14,13,1510:22)       central 35:1       CHRISTINA 2:12       40:16 41:3,25 42:9         blew 6:1       burn 14:1 30:11       Burren 5:13       busiest 13:7       calls 109:12       central 35:1       circle 88:13       44:12         blow 35:19 211:10       business 156:16       campaign 6:12 18:15       central 135:1       circle 88:13       d4:12         blue 36:2 88:13 90:14       174:19 176:20       20:16 23:5       campaign 6:12 18:15       central 138:15       central 138:15       central 35:1       circumstance 157:16       classified 43:3 101:24         blue 36:2 88:13 90:14       174:19 176:20       20:16 23:5       Canadian 138:15       cap 7:17       cap 2:11 10:11       127:18 14:51:13       127:18 14:51:13       127:18 14:53:13         board 111:13 175:15       30:14,19 33:9 34:3       40:22 42:3,4,12,14       159:3,3,10 161:22       161:24       certain 128:57 39:3       citzens 48:15,18       clearly 14:3,16 29:20         boggs 2:9,9,10,10,11       44:10,22,24 45:3       161:24       Carlo 57:23 75:8 76:4       71:15 91:11       153:20 154:23,24       cleare 161:10         c:111/2       57:6 62:21 63:6       76:01 106:17 <td></td> <td></td> <td></td> <td></td> <td>· · · · · · · · · · · · · · · · · · ·</td> <td></td>					· · · · · · · · · · · · · · · · · · ·	
blew 6:1         burnt 14:1 30:11         burnt 14:1 30:11         calling 27:22         calling 10:12         calling 27:22         calling 27:22         calling 27:22         calling 27:22         calling 10:12         calling						
blobs         117:3,8,10,11         Burren         5:13         calls         109:12         centre         1:2,5         117:11         circles         91:25         110:11         102:10           blow         35:19         211:10         business         156:16         calls         109:12         calls         109:12         calls         101:13         102:10         calls         102:10         102:10         calls         102:12         calls         101:13         102:10         calls         102:12         calls         102:10         102:10         calls         102:12         calls         102:10         102:10         calls         102:11         102:10         102:11         102:10         102:11         102:10         102:11         102:11         102:11         102:11         102:11         102:11         102:11         102:11         102:11						-
blocks 8:4,25       busiest 13:7       came 106:18 119:12       came 106:18 119:12 <thcoxee 10:1116:12<="" th="">       came 106:18 119:12</thcoxee>						
blow 35:19 211:10       business 156:16       cannot 10:17:12       century 113:6       circumstance 157:16       classified 43:3 101:24         blue 36:2 88:13 90:14       174:19 176:20       174:19 176:20       178:23       178:23       canadian 138:15       certain 71:2 85:17       186:1       186:1       clear 2:7 14:1 46:1         BM01 132:10       businessman 173:13       173:17       cap critics 33:8       86:1 101:11 160:24       cite 24:6 155:5 201:11       185:3 209:17         BM04 132:4,11       but-for 21:1,3 23:1       30:14,19 33:9 34:3       0:16 122       161:24       certain 71:2 85:17       cite 24:6 155:5 201:11       185:3 209:17         boe 64:14 65:19 74:11       40:22 42:3,4,12,14       42:19 43:10,22       161:24       certain 161:16 3:14       82:25 83:7 145:14         74:25 195:17       42:19 43:10,22       161:24       certain 57:23 75:8 76:4       71:15 91:11       153:20 154:23,24       clear 2:7 14:1 46:1         74:25 195:17       42:19 43:10,22       161:24       certain 71:2 85:17       cite 24:6 155:5 201:11       82:25 83:7 145:14         74:25 195:17       42:19 43:10,22       161:24       certain 12:24       citain 61:1 63:14       82:25 83:7 145:14         74:25 195:17       42:19 43:10,22       161:24       certain 72:23       104:4 147:9,9 153:9       208:12 </td <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td>				-		
blue 36:2 88:13 90:14       174:19 176:20       caling angle 12 10:15 or 20:16 23:5       CEO 61:7 173:1       186:1       clear 2:7 14:1 46:1         blunt 78:4       178:23       20:16 23:5       Canadian 138:15       caratian 138:15       caratian 138:15       capacities 33:8       circumstances 171:21       51:18 74:11 76:7         BM01 132:10       businessman 173:13       173:17       capacities 33:8       capacities 33:8       certain 71:2 85:17       172:1 184:1       127:18 153:13         BM04 132:4,11       but-for 21:1,3 23:1       aspacities 33:8       capacities 15:10 211:14       cite 24:6 155:5 201:11       185:3 209:17         board 111:13 175:15       30:14,19 33:9 34:3       capacity 61:7       capatil 153:16,18       certainly 28:7 39:3       citizens 48:15,18       clearly 14:3,16 29:20         boe 64:14 65:19 74:11       42:19 43:10,22       161:24       159:3,3,10 161:22       102:1 144:3 175:25       claim 61:1 63:14       82:25 83:7 145:14         74:25 195:17       42:19 43:10,22       161:24       Carlo 57:23 75:8 76:4       71:15 91:11       153:20 154:23,24       clerical 161:10         2:11,12       57:6 62:21 63:6       76:10 106:17       76:10 106:17       chairman 174:9       156:12 157:15       close 32:24 61:5						
blunt 78:4       178:23       Canadian 138:15       Canadian 138:15       circumstances 171:21       51:18 74:11 76:7         BM01 132:10       businessman 173:13       Transman 173:13       Canadian 138:15       certain 71:2 85:17       172:1 184:1       127:18 153:13         BM04 132:4,11       but-for 21:1,3 23:1       30:14,19 33:9 34:3       capacities 33:8       capacity 61:7       catial 153:16,18       certainly 28:7 39:3       citzens 48:15,18       clearly 14:3,16 29:20         board 111:13 175:15       30:14,19 33:9 34:3       40:22 42:3,4,12,14       159:3,3,10 161:22       102:1 144:3 175:25       claim 61:1 63:14       82:25 83:7 145:14         boggs 2:9,9,10,10,11       44:10,22,24 45:3       Carlo 57:23 75:8 76:4       71:15 91:11       153:20 154:23,24       cleical 161:10         2:11,12       57:6 62:21 63:6       76:10 106:17       61:1 01:17       chairman 174:9       156:12 157:15       close 32:24 61:5				•		
BM01         132:10         businessman         173:13         cap         cap<         cap<         cap<						
BM03 32:12         173:17         cap cities 33:8         86:1 101:11 160:24         cite 24:6 155:5 201:11         185:3 209:17           BM04 132:4,11         but-for 21:1,3 23:1         30:14,19 33:9 34:3         capacity 61:7         86:1 101:11 160:24         cite 24:6 155:5 201:11         185:3 209:17           board 111:13 175:15         30:14,19 33:9 34:3         40:22 42:3,4,12,14         159:3,3,10 161:22         161:24         certainly 28:7 39:3         citizens 48:15,18         clearly 14:3,16 29:20           Boggs 2:9,9,10,10,11         44:10,22,24 45:3         Carlo 57:23 75:8 76:4         71:15 91:11         153:20 154:23,24         cleared 161:10           2:11,12         57:6 62:21 63:6         76:10 106:17         76:10 106:17         charman 174:9         156:12 157:15         close 32:24 61:5						
BM04         132:4,11         but-for         21:1,3         23:1         capacity         61:7         capacity         61:1         61:1         63:14         capacity         61:7         61:1         61:1         63:14         62:25         63:7         14:10,22,24         159:3,3,10         161:22         catera         61:7         24:23         104:4         147:9,9         153:9         208:12           80ggs         2:9,9,10,10,11         44:10,22,24         45:3         71:15         91:11         153:20         154:23,24         clerical         161:10           2:11,12         57:6         62:21         63:6         76:10         106:17         chairman         174:9         155:12						
board         111:13         175:15         30:14,19         33:9         34:3         capital         53:16,18         certainly         28:7         39:3         citizens         48:15,18         clearly         14:3,16         29:20           boe         64:14         65:19         74:11         40:22         42:3,4,12,14         159:3,3,10         161:22         102:1         144:3         175:25         claim         61:1         63:14         82:25         83:7         145:14           74:25         195:17         42:19         43:10,22         161:24         certa 6:17         24:23         104:4         147:9,9         153:9         208:12           Boggs         2:9,9,10,10,11         44:10,22,24         45:3         75:23         75:8         76:4         71:15         11:1         153:20         154:23,24         clerical         161:10           2:11,12         57:6         62:21         63:6         76:10         106:17         chairman         174:9         156:12         157:15         close         32:24         61:5           156:12         167:0         106:17         0         0         106:0         106:0         140:0         26:0         140:25         160:0         16						
boe 64:14 65:19 74:11         40:22 42:3,4,12,14         claim 61:1 63:14         82:25 83:7 145:14           74:25 195:17         42:19 43:10,22         161:24         cetra 6:17 24:23         104:4 147:9,9 153:9         208:12           Boggs 2:9,9,10,10,11         44:10,22,24 45:3         57:6 62:21 63:6         76:10 106:17         71:15 91:11         153:20 154:23,24         clercal 161:10           Claim 61:1 63:14         57:6 62:21 63:6         76:10 106:17         charman 174:9         156:12 157:15         close 32:24 61:5		· · · · · · · · · · · · · · · · · · ·	1 0		-	
74:25 195:17       42:19 43:10,22       150:3,3,010 101.22       cetera 6:17 24:23       104:4 147:9,9 153:9       208:12         Boggs 2:9,9,10,10,11       44:10,22,24 45:3       Carlo 57:23 75:8 76:4       71:15 91:11       153:20 154:23,24       clerical 161:10         2:11,12       57:6 62:21 63:6       76:10 106:17       chairman 174:9       156:12 157:15       close 32:24 61:5		· · · · · · · · · · · · · · · · · · ·		•		-
Boggs 2:9,9,10,10,11         44:10,22,24 45:3         Carlo 57:23 75:8 76:4         71:15 91:11         153:20 154:23,24         clerical 161:10           2:11,12         57:6 62:21 63:6         76:10 106:17         71:15 91:11         156:12 157:15         close 32:24 61:5						
2:11,12         57:6 62:21 63:6         76:10 106:17         chairman 174:9         156:12 157:15         close 32:24 61:5						
	88					
	-	, , , -, -	Carpannan 0.17 0.12	6	,	

Anne-Marie Stallard for Trevor McGowan Page 3

#### Discovery Global LLC -v- Slovak Republic ICSID Case No. ARB/21/51

# Tuesday, 6 February 2024

					· · · · · · · · · · · · · · · · · · ·
closer 138:10	compaction 7:17	121:10 129:10	confidence 115:9	<b>contingent</b> 40:7 43:3,4	211:7 212:20 213:5
closings 1:14	companies 39:4 62:23	195:8 198:15	confidential 213:23	85:12 151:6,7,10	213:14,24
clustered 91:6	63:1 68:12 74:14	comparison 6:18	configuration 7:5,23	195:21 196:8	courts 211:20,25
code 71:13 73:8,9	77:19 78:16 83:18	11:23 12:12 92:2	confirm 66:15 73:3	198:14,16 203:9	cover 9:17 89:6
codes 71:2	85:7 142:4.14 147:6	95:18 100:21 101:7	86:24 115:21 134:9	continue 182:6	139:18
<b>coffin</b> 211:10	150:10,12,16	109:17 122:2,5,12	166:10 172:10	continued 60:15 62:5	covered 210:7 211:16
Colin 2:4 3:16,17 56:1	151:20 152:3.8	124:18 125:8,17	184:19	67:12	211:16 212:11
56:2,21	157:20 158:2,12,20	126:3 128:6 137:1	confirmed 8:21 21:12	continuing 60:13	covers 211:4
collapsed 166:18	159:8,11,20,23	138:12 184:14	41:18	continuous 8:17	co-arbitrators 212:10
collateral 183:5	160:1,19 161:6,8,23	194:3	confirms 58:11 83:4	contracts 48:3,3	<b>CPR</b> 40:4 94:11
collateralised 148:14	161:24 191:15,24	compelled 148:12	conform 42:1,10	contractual 47:6 48:2	130:18
colleague 5:19 50:24	192:3,6 194:21,21	compensation 175:14	confused 200:3	contradicted 148:22	CPRs 40:9
147:13 153:3	195:6,13 196:23,23	175:15,23	confusion 52:2	contrary 40:18 41:1	CRA 60:7 61:1,20
colleagues 74:24	198:7 203:8,11	competent 40:2,5	connect 28:10 30:1	41:20	62:24 63:7,12,24
83:14,21 107:16	204:22 205:6	44:14,17,19,23 45:3	33:1	contrast 156:11	64:1 66:21 71:12
141:7	company 5:12 16:7	45:5	connected 28:25	contrasting 176:4	74:12,22 75:14
collect 35:3	61:8 63:13,14 96:10	completed 13:5 62:13	connecting 30:21	controversial 142:20	77:18 78:2 79:7
colour 89:5	143:9 158:1 159:8	131:8 162:17,24	connection 24:21	187:23	84:17 85:23
colours 115:16	160:7,12,25,25,25	163:1,5,18 169:18	conscience 4:19 56:14	Conversely 64:6	crashed 167:16
column 59:20,21 76:7	161:3 173:11,19,21	completely 51:16	87:11 145:5,9	convert 42:14	CRA's 71:1 78:5
81:10 132:22	174:18,25 175:6,12	159:4	consecutively 96:10	converted 148:14	84:10
combined 57:23	175:18,24 176:1,2,9	completion 170:4	conservatively 202:21	copy 68:24 98:3	CRA-35 72:7
come 11:14 20:16	176:10,17 177:18	188:5	203:3	102:19 109:15	CRA-63 146:9 179:2
23:12 24:7 25:23	177:18,23 178:20	complex 88:22	consider 35:8 46:13	113:3 115:14	create 20:13,22
58:20 59:15 60:2	178:22 179:16	complicated 24:20	54:9 61:15 106:1	119:15 124:11,13	created 28:20 46:11
62:19 74:24 75:1,7	180:1,4,24 181:5	component 34:2	140:14,15,18,19,20	138:20	91:18 100:16
76:14 77:23 79:8	182:11 183:2,6,17	components 116:19	160:10,16,19	corollary 94:22	credit 176:23 179:20
83:22 87:15 92:15	183:18 184:6,7,8,14	compressed 32:14	161:16 178:6	corporate 61:4 67:25	181:7,14
95:5 96:13 115:20	184:25 185:9,16,21	compulsion 170:15	189:11 192:1 203:3	corrected 77:20 96:21	credulity 184:18
119:3 127:1 128:14	190:24 194:19,23	172:7,8	208:18	161:12,14	crisis 60:20,23
135:1 142:21 148:5	195:1,5,9,10,12	compulsory 211:1	considerable 60:12	correction 198:9,10	criteria 40:19 41:3
159:16 168:6	198:5	conceive 186:1	178:12	corrections 2:16,19	43:6,11,25 44:8
169:11 171:19	company's 181:3	<b>concept</b> 96:6,9	consideration 185:15	146:7 213:22	45:21
175:8 192:15	182:5,8	concepts 107:10	considered 20:19	correctly 37:10 67:24	cross 143:21
199:15 214:5	comparable 9:15	conceptual 141:14	39:19 43:3 68:8	85:15 116:20	cross-examination 3:6
comes 61:17 77:12	10:13 14:14,24	conceptually 77:17	102:14,25 103:4,15	141:20 208:10	3:18,23 4:5 15:10
128:2 133:11 138:9	62:23 68:11,13	<b>concern</b> 61:12,12	103:19 104:3,9,10	corrects 145:22	66:2 97:21 157:9
142:3	77:18 83:18 85:6,8	80:15 182:1,6,21,22	105:1 106:8,13	correspond 204:15	171:15
<b>comfort</b> 55:21 102:11 141:25	112:6,14 122:19	183:1,8,15 184:9 186:15	112:2 139:25 140:10 151:24	corresponds 117:24 147:18	cross-sections 8:14,16 8:22
comfortable 27:19	133:5 147:6 150:10 150:12,16 151:20	concerned 137:20	159:21 166:5	cost 96:2 147:8 153:9	8:22 Cub 152:4 161:9,11
71:4 75:20 111:20	152:3,7 157:19,22	concerning 1:14	191:23	153:20 154:2 159:2	195:16
coming 54:15 63:11	158:2,13,18 159:8	concerns 47:9 48:13	considering 12:7	159:3,9 161:22,24	cumulative 9:12,17
79:15 114:23	159:10,11,20,21	49:1,7 50:5,6	168:18	207:24 208:14	93:13
128:16 167:7	160:2,8,11,14,16,20	182:12	considers 105:19	costs 2:25 58:7 61:11	curious 26:8
commence 37:16	160:24 161:1,6,8,16	concluded 99:6	consistent 2:21 95:13	146:24 148:4	current 34:9
commenced 169:19	161:23,24 191:15	concludes 54:23	149:8 175:25 197:9	153:11 154:18	currently 13:15
192:24	194:21 195:3,4,7,10	143:15	consolidate 52:23	155:25 156:10	curves 7:3,4
comment 70:12	195:13 198:3,6,12	conclusion 14:18	construct 22:12	203:19 205:18	cut 142:7
132:18 199:9	comparables 62:20	65:12 98:9 108:10	constructed 34:6 49:3	206:7 207:25	C-247 189:20
202:17,24 204:23	65:16 159:7	108:16,16 110:4	constructing 30:20	209:25 213:24	C-259 81:9 174:5
commented 161:5	compare 96:18 101:7	118:15 119:16	37:1	cost-sensitive 2:10	C-41 166:22
comments 2:23	110:1 112:8,16	conclusions 143:3	construction 28:2	counsel 54:3 185:7,12	<b>C.1</b> 106:22
147:10	115:20 116:4	condensate 63:17	Consulting 2:14,14	counted 37:10	<b>C.3</b> 107:3 108:17,25
commercial 40:13	117:20,21 118:9	condition 185:20	87:2	counting 38:1	
41:11 43:5,11,25	121:20 123:2	conditions 81:2	contact 8:2,19,19	couple 13:13 50:13	D
90:24 115:3	128:20 149:4	178:14,19,20	contain 17:13 19:21	51:19 60:24 86:13	damage 12:16
commerciality 43:14	150:13 190:22	180:23	20:6 42:19	87:16 113:21	damages 155:22 158:8
44:8,15,18 45:20	203:10	conduct 28:17 107:15	contained 125:9	course 1:22 2:12	158:11 209:23
46:4,18	compared 11:7 100:4	158:5 211:13	contains 8:13 34:20	27:21 29:3,25 36:4	dark 8:18
commercially 39:19	119:18 122:6	conducted 98:16,22	66:16 125:13	36:10 58:6 59:2,15	darker 89:5
committed 61:24	128:17 132:6 133:4	101:14 106:9,19	contemporaneous	62:21 63:3 64:18	database 91:1 126:7
139:3	148:3 194:18 196:9	191:16	109:19	65:11 74:7 77:8,21	dataset 105:13 107:19
committee 175:14,15	compares 95:8 120:22	conducting 120:2	context 70:22,24 71:8	78:19 82:6 85:5,11	120:5 127:12,14
common 40:9 45:4	comparing 63:1	130:6 158:18	71:12,16,21 72:21	145:23 157:5 158:1	128:15
85:25 161:23	112:11 118:2,5,13	conductor 52:18,20	72:23 82:6 166:15	185:7 190:18,18	date 11:9 12:9 57:5
commonly 29:9	118:25 120:25	54:1,17	206:2	209:25 210:8,22	60:9,11 61:21,22
Ī					55.2,11 01.21,22

Anne-Marie Stallard for Trevor McGowan

Page 4

#### Discovery Global LLC -v- Slovak Republic ICSID Case No. ARB/21/51

Tuesday, 6 February 2024

662-433 (4:19 7.44) 74:5,9,14.17,121              defice net 83.7 74:5,9,14.17,121              defice net 83.7 74:5,9,14.17,121              decimal 74:5,14.17,121              decimal 74:5,14.17,121              cells 75:78.12,101.12 99:6,957.104.77,1424              12:55.22 99:6,957.104.77,1424              12:55.22 99:6,957.104.77,1424              descue 14:55.22 99:6,957.104.77,1424              descue 14:55.22 99:6,957.104.77,1424              descue 14:55.22 99:6,957.104.77,1424              12:55.22 99:6,957.104.77,1424              22:80.02.44.17,102.105.22 712:28:81.93.15 712:28:81.93.15 712:28:81.93.15 712:28:31.93.15 712:28:11.93.16 713:28:115:11.15 712:28:11.93.16 713:28:11.93.16 713:28:11.93.16 713:28:11.93.16 714:28:11.93.16 714:28:11.93.16 714:28:11.93.16 714:28:11.93.16 714:28:11.93.16 714:28:11.93.16 714:28:11.93.16 714:28:11.93.1						
74.41, 21, 21         celling, 84         officen 85, 34.22         officen 85, 34.22         12.25, 13, 14.22, 30         oecumes, 14.24, 34.9           75.41, 81, 21, 71         oecumes, 14.76, 150, 160, 153, 151, 160, 163, 100, 24         36, 557, 101, 120, 133, 151, 160, 163, 100, 24         139, 116, 120, 120, 139, 120, 120, 120, 120, 120, 120, 120, 120	62.4 23 64.19 74.4	decline 8·3	47.15 151.21	differences 92.7	discoveries 6:22 9:4	documented 110.14
77.2.4.13.2.1.2         obscurption 918 102         999 7117 77414         228 9024         100-1925.25           795.6.11.3.17.9         decume 1747 15 050.6         357 7812 101.1         94.6 957 101.1         131.8 1851.4         1005 102.2         131.8 1851.4         1005 102.2         131.8 1851.4         1005 102.2         131.9 147.2 120 21.2         131.8 1851.4         1005 102.2         131.8 1851.4         1005 102.2         131.8 1851.4         1005 102.2         111.2 11 1131.5 10         122.8 22.0 21.2         111.2 11 1131.5 10         122.8 22.0 21.2         111.2 11 1131.5 10         122.8 22.0 21.2         111.3 12.5 11.2         111.2 11 1131.5 10         122.8 22.0 21.2         111.3 12.5 11.2         111.3 12.5 11.2         111.3 12.5 11.2         111.3 12.5 11.2         111.3 12.5 11.2         111.3 12.5 11.2         111.3 12.5 11.2         111.3 12.5 11.2         111.3 12.5 11.2         111.3 12.5 11.2         111.3 12.5 11.2         111.5 11.2         111.5 11.2         111.5 11.2         111.3 11.3 11.2         111.3 11.3 11.2         111.3 11.3 11.3 11.3 11.3         111.3 12.5 11.2         111.3 11.3 12.5 11.2         111.3 11.3 12.5 11.2         111.3 11.3 12.5 11.2         111.3 11.3 11.3 11.3 11.3 11.3 11.3 11.						
78:66,11,13,71,9         decmed 1475:150:10         45.5 78:12 101:12         94.6 9957 104-7         discovery 1:15.52,23         130:16           79:33.81:17.81         160:13 1953.47         deignet 155:11         112:11 115:15.16         21:24 22:03:22:3         71:22 83:193:05 0.22:3           134.13         deign 10:23 15:01         deign 10:23 15:01         116:41 17:22         37:03 88:16 43:12         30:65 0.2           15:22:02 51:52:57.18         172:23.69.16         deign 10:23 16:21         135:21 0.25:21         37:03 88:16 43:12         30:01 20 </td <td></td> <td></td> <td></td> <td>-</td> <td> , .</td> <td></td>				-	, .	
792.38.117 84:10         152.3 159.11 160.7         131.81 85:14         105.8 109.24         131.9 147.12 10.1         doing 0.08 622.52.55           8412.13.12 17         deems 175.17         desprate 176.2         116.11 115.16         122.11 115.16         122.11 115.16         122.11 115.16         122.11 115.16         122.11 123.23 116.13           105.21 152.11         105.21 152.11         105.21 152.11         105.21 152.11         105.21 152.11         105.21 152.11         105.21 152.11         105.21 152.11         105.21 152.11         105.21 152.11         105.21 152.11         105.21 152.11         105.21 152.11         105.21 152.11         105.21 152.21         105.21 1						
84412,15,1,22         1601:31 2954.7         designet 1351:1         1121:1151:51.6         21:24 22:07:23:63 392         71:22 881:931:5           1349:16 510:11:162,553:10         designet 11:162,553:10         116:141:1723         37:31:32:63 389         37:20:38:16:43:12           1352:1512:51:151,151:18         12:61:41:81:924         11:22:11:151:16         116:41:1723         37:31:32:63 389         119:31:12           1352:1512:51:151:11         12:61:41:81:924         11:22:11:151:16         16:63:19:41:10:12         60:46:10:67:12         19:31:72           1352:1512:51:151:11         12:72:17         12:72:17         60:72:10:72:17         12:72:17         10:72:17        10:72:17         10:72:17						
101:13         101:14         117:23         123:15         106:33         118:22         123:15         105:33         118:22         123:15         105:33         118:22         123:15         103:15<						
1349         14722         deep         1162         1382.1         72.038.164.812         21.15           1392.15         151.25         152.5			8			
149.16 150:14.17     dee'per 11:16.25 53:10     despite s1:16 10:41     133:12 13:23     342.22 34:18 322     dollar 6:51 19:56:12       150:25 151:45,18     127:23,69,16     detail 78:24:16 57:18     161:20 162:1     60:4,010 67:12     20:63.24       158:05 17:85     105:21 10:82:15     175:17     105:21 10:82:12     118:18 19:25     70:87 74:78:13     161:15:18 18:25     20:63.24       167:11,21;5     178:17     105:21 10:82:12     118:14     114:61 15:31:18     15:63.3       188:7,24 189,12     defmaile 19:51     13:21     13:21     13:14     114:61 15:31:18       188:7,24 189,12     defmaile 19:15     13:23     13:14     114:61 15:31:18     15:63.3       19:21 19:16     defmaile 19:26     13:23     13:24     13:52.31 18:21     10:06:18:18       19:30 21 19:22 102     10:18 16:13.18     defmaile 11:76     13:32 19:150     13:32 19:150     13:32 19:150       19:40 21:22,151.8     defmaile 11:76     determine 20:07:171:76     13:81:10:98:11     13:81:10:98:11     13:81:10:98:11     13:81:10:98:11       19:40 21:22,151.8     defmaile 19:16     13:32 19:150     13:16:11:32:11:151     13:16:11:32:11:151       19:41 21:21,518     defmaile 11:76:1     13:16:11:72:43     13:16:11:72:43     13:16:11:72:43       19:42:12:151     defmaile 11:76:1     13						
1902.5 151.4, 15.18         126.1, 14, 15.18         126.2 151.2, 152.5, 182.7, 182         192.7, 20           151.25 152.5, 152.7, 18         127.3, 23.6, 1.6         166.1 18, 24.16, 27.3         1671.5, 18 189.25         70.8, 77.4, 77.0, 19         206.32, 2.4           153.7 11, 21.5         1671.5, 18 189.25         182.5, 77.16, 25 8.6         0.00.8, 10.1, 77.0, 3         0.00.8, 25.6, 77.16, 25 8.6         0.00.8, 25.6, 77.16, 25 8.6         0.00.8, 25.6, 77.16, 25 8.6         0.00.8, 10.1, 77.0, 3         0.00.8, 25.6, 77.16, 25 8.6         0.00.8, 10.1, 77.0, 3         0.00.8, 10.1, 77.0, 3         0.00.8, 10.1, 77.0, 3         0.00.8, 10.1, 77.0, 3         0.00.8, 10.1, 77.0, 3         0.00.8, 10.1, 77.0, 3         0.00.8, 10.1, 77.0, 3         0.00.8, 10.1, 77.0, 3         0.00.8, 10.1, 77.0, 3         0.00.8, 10.1, 77.0, 17.0, 1		-				
151:25:25:17.18         127:23.69.16         detail 152:42:16:37:18         161:20:16:21         696:10.147.073         dollars 639 821           153:20:25:15:12         178:17         105:21:10:82:21         198:25         87:16:18:18:192:5         105:21:10:82:23         dollars 639 821           188:72:18:19:11:13:14         16fendel 195:15         133:21         130:14         113:21:19:15:10         155:21:18:22:17:15         105:21:10:82:27:18:13:13         106:12:10:82:29:35:10           199:18:19:27:18:10:12:10         definable 92         31:23:48:20:57:16         30:11:11:53:18:31:13:15:23:18:32:15:10:12:16         domes 11:60:18:21:10:12:10:11:13:18:31:13:15:23:18:21:15:10:11:13:18:31:11:13:11:12:11:13:11:1		-	-	-	-	
152:20:25 154:21     128:21     58:15 59:17 88.7     167:15.18 189:25     70.8 77:47 87:19     206:22.24       167:11.12,15     178:17     178:17     153:21     198:25     82:5,7,7.16.25 83:6     106:sci 108:22.3       188:11,12,15     166:81 106:18     105:21 108:22.3     107:15.18 189:25     152:25 158:12.11:16     106:sci 108:22.3       189:13,15 191,17     166:81 106:18     105:21 108:22.3     107:15.18 189:28     132:19 120:17     108:18:18:18:18:18:18:18:18:18:18:18:18:18						· · · · · · · · · · · · · · · · · · ·
158:77         163:21         offault 156:14 163:41         890:31026:105:21         198:25         82:53:88:11:11:62         68:323:88:11:11:62         156:13           188:77.41         188:77.41         198:77.41         133:12         130:14         130:14         132:19         150:13         132:19         150:13         132:19         150:13         132:19         150:13         132:19         150:13         132:19         150:13         132:19         150:13         132:19         150:13         132:19         150:13         132:19         150:13         132:19         150:13         132:19         150:14         136:17.22         187:14         150:14         150:14         150:14         150:14         150:14         150:14         150:14         150:14         150:12         150:16         150:15         128:14         150:12         150:16         150:15         160:17:16         150:16         150:16         150:16         150:16         150:12         150:16         150:16         150:16         150:16         150:16         150:16         150:16         150:16         150:16         150:16         150:16         150:17         150:17         150:17         150:17         150:17         150:17         150:17         150:17         150:17         <						
167:11,12,15         178:11,13,14         178:11,13,14         165:13         133:21         130:14         143:61 153:138         114:61 153:138         115:61 3           188:17,119;11         defined 195:15         defined 195:15         132:14:82:07:16         132:11 11:158         135:25 158:12; 158:25 158:12; 6         135:25 158:11:13         155:25 158:12; 6         135:21 6:18:20         135:21 6:18:20         135:21 6:18:20         135:21 6:18:20         135:21 6:18:20         135:21 6:18:20         138:11 9:11:15:18:18:13         136:14:15:31:18:11         159:24 16:10:20         138:14 19:15:10         138:14 19:15:10         138:14 19:15:10         138:14 19:15:10         138:14 19:15:10         138:14 19:15:10         138:14 19:15:10         138:14 19:15:10         138:14 19:15:10         138:14 19:16:10         138:14 19:15:10         138:14 19:15:10         138:14 19:15:10         138:14 19:15:10         138:14 19:15:10         138:14 19:15:10         138:14 19:15:10         138:14 19:15:10         138:14 19:15:10         138:14 19:15:10         138:11 19:15:10         138:11 19:15:10         138:11 19:15:10         138:11 19:15:10         138:11 19:15:10         138:11 19:15:10         138:11 19:15:10         138:11 19:15:10         138:11 19:15:10         138:11 19:15:10         138:11 19:15:10         138:11 19:15:10         138:11 19:15:10         138:11 19:15:10         138:11 19:15:10         138:11:11:11:10 <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td>				-		
187:11,13,14,15         defended 195:15         133:21         130:14         114:61 133 131:8         demostic 329 33:5           188:72,14 R8,11         definable 9:2         3123 48:20 57:16         90:11 1158 183:13         159:24 160:21 683         212:1           1991:8 19:24,194.1         q2:19 161:16         141:13         deteriorate 126:20         difficult 29:10 7:10         186:17.22 187:40         28:24 99:30:18         28:24 99:30:18         28:24 99:30:18         28:24 99:30:18         28:24 99:30:18         28:32 49:30:10         29:10 49:30:10         29:11 49:						
188:72,4189:1,12         defies 184:17         31:23 48:205:16         31:23 48:205:16         31:23 48:205:16         31:23 48:205:16         31:23 48:205:16         31:23 48:205:16         31:23 48:205:16         31:23 48:205:16         31:23 48:205:16         31:23 48:205:16         31:23 48:205:16         31:23 48:205:16         31:23 48:205:16         31:23 48:205:16         31:23 48:205:17         31:23 48:205:17         31:23 48:205:17         31:23 48:205:17         31:23 48:205:17         31:23 48:205:17         31:23 48:205:17         31:23 48:205:17         31:23 48:205:17         31:23 48:205:17         31:17:17:17         6:11:11:17:16         11:17:17:16         11:17:17:16         11:17:17:17:16         11:17:17:17:16         11:17:17:17:17         11:17:17:17:17         11:17:17:17:17         11:17:17:17:17         11:17:17:17:17         11:17:17:17:17         11:17:17:17:17         11:17:17:17:17         11:17:17:17:17         11:17:17:17:17         11:17:17:17:17:17         11:17:17:17:17:17         11:17:17:17:17:17         11:17:17:17:17:17         11:17:17:17:17:17:17:17:17:17:17:17:17:1				•		
189:13,15,191:17         definable 92         31.22 48.20 57.16         901:11188 185:13         155:21 588:12,15         dome 31:2 6:18 2720           1921:1912.133,5,7         define 16:18         141:13         difficulty 871:9         168:172.21 874.20         502 62:24 66:9           1933:19,21.24 194:1         921:11 158         155:10         168:172.21 874.20         502 62:24 66:9           1944:6,012,19.22         108:18 164:13.18         determine 611.76         dipigence 5:14 61:22         188:11 193:11         67:24 78:3.52.11           187:12.15.18         definition 86:2         133:3 201:82         dire 148:16 170:24         82:10 89:20 90:12         87:10 11:02         162:173:13           187:12.15.18         definition 86:2         133:3 201:55         137:15         181:16 183:01.01         81:16 183:01.01         81:16 183:01.01         81:16 183:01.01         81:16 183:01.02         162:173:13           0AVID 2:10         delegate 145:13         develop 26:23 43:24         184:25 1854:5,11         163:16 83:12.02         91:11.159:91:179:95:15         133:20:175:0         130:16 81:12:02:173:15         130:16 81:12:02:173:15         130:16 81:12:02:173:15         130:16 81:12:02:173:15         130:16 81:12:02:173:15         180:12 11:15:14         100:173:11:16:15         116:12:174:173:16         116:12:174:173:16         116:12:174:173:16         116:12:174:173:						
1918         192:192         193:35.7         define 17:39         122         123:10         168:8         109:44:52.192         108:8         109:44:52.192         108:8         109:44:52.21         183:11         67:23         187:42         187:42         187:42         187:42         187:42         187:42         187:41         107:43					-	
192:192.1193:35.7         defined 7:391.21         determinat 52:0         difficulty 871:9         168.8109.61.8         38:44315.20.90:11           193:192.12.4141.1         1951:01         105818 1641.31.8         determine 611.7.6         diffigures 51.461.22         188:119.81.1         96:17.22.187.42.0         50:22.22.46.69           136:12.151.8         definition 86:2         139:32.01.28         109:19.5         48:19.58:16.75         88:10.89:00.90:12           137:12.15.18         definition 86:2         139:32.01.28         109:52.14.57:4         48:19.55:14.57:4         109:11.21.01           137:12.15.18         definition 86:2         develop 2:23.42:4         18:14.18.81.01.8         48:19.55:14.57:4         104:11.21.21.10:7           135:0         135:0         100:17.13:11.16.19         105:11.27:90:63         diffector 17:41.2         116:81.20:20.20:1         136:2.20:14.21:31           135:0         135:0         100:17.13:11.16.19         100:17.13:11.16.19         diffector 17:41.2         12:29         20:17         20:17           215:19         130:15         develope 1:42:22         17:32:17.47         31:6 68:23.10.17         double 65:3 93:5	189:13,15 191:17	definable 9:2		90:11 115:8 185:13	155:25 158:12,15	done 3:12 6:18 27:20
$\begin{array}{l l l l l l l l l l l l l l l l l l l $	191:18 192:8,15,18	define 116:18	141:13	difficulties 3:11	159:24 160:2 168:1	28:24 29:9 30:18
194-6.9,12,19,22         108:18 164:13,18         deta:8         deta:8         192:12 198.6         deta:8         200:14         87:21 83:15         32.18 84:15 86:16           147.23 149:17         Definitely 131:6         deta:90:27 71.65         200:14         88:10 193:11 72.6         200:14         88:10 193:11 72.6         200:14         88:10 89:20 90:12           192:10         debgate 145:13         deligence 29:14         delay 35:16 27:11,79:55         26:10 4:16 10:02         106:10 20:12         <	192:19,21 193:3,5,7	defined 7:3 91:21	deteriorate 126:20	difficulty 87:19	168:8 169:6,18	38:4 43:15,20 49:11
dates op:2 77:14 84:11         195:12 198:6         dermine 6:11 7.6         dipping 65:3         200:14         83:21 84:15 86:16           147:23 149:17         Definition 80:2         199:3 201:8 206:12         173:82 1175:6         Bicovery's 21:8         88:10 89:20 09:12           199:1 201:1         delay 361:3 25 37:6         137:15         167:19 180:5         48:19 53:1457:4         014:1 12:13 10:7           dating 91:9         delays 361:3 25 37:6         137:15         181:16 183:10.18         discuss 1:16,172.03:9         189:19 195:15           jass 13:6 0:24         demostrated 93:1         develope 6:23 43:24         184:25 185:16,57         311 661:2.02.09:1         196:18 200:4           jass 13:6 0:24         demostrated 93:1         10:71 73:1.16,19         director 174:12         48:6 50:17.79:1.6,18         00:18 200:4           days 21:6,20:23 31:2         demostrating 48:21         77:16 22:7.9: 05:3         director 174:12         48:6 50:17.79:1.6,18         00:19:20:17         dioble 65:3 32:1           6:11 75:2,12         developer 14:22         173:24 174:7,24         18:01 16:26         00:19:22:1:24:23:1:4         double 93:1         10:15:1:24:24:54         00:19:22:1:24:24:35         10:12:12:45:10         double 93:1:1:1:1:4         double 93:1:1:1:1:1:4         double 93:1:1:1:1:1:1:1:1:1:1:1:1:1:1:1:1:1:1:1	193:19,21,24 194:1	92:19 101:1 107:5	determination 45:20	· ·		50:2 62:24 66:9
	194:6,9,12,19,22	108:18 164:13,18	46:18	diligence 5:14 61:22	188:11 193:11	67:24 78:3,5,21
	dates 69:2 77:14 84:11	195:12 198:6	determine 6:11 7:6	dipping 65:3	200:14	83:21 84:15 86:16
187:12,15,18         definition 662         139:3 2018 206:12         177.83,21 175.6         26:10 41,25 48:16         95:16 97:11,17 99:5           192:11         delays 36:13,25 37.6         137:15         181:16 183:10,18         62:11 64:16 110.20         136:21 136:7           181:17,25 54:23         delberatel 913:7         96:1         184:25 185:45,511         discuss 11:61,72.03 39         189:19 19:51 5           155:6 212:14 214:9         demonstrating 43:21         17:16 22:7,9 65:5         director 174:12         48:6 50:17 79:11,61         95:15 20:14 20:315           days 21:6,20,23 31:2         demonstrating 48:17         67:13         17:16 22:7,9 65:5         director 174:12         48:6 50:17 79:11,61         95:25 20:14 20:315           days 21:6,20,23 7:7         developer 14:22         17:32:41 74:7,24         158:10 162:6         20:19           75:19,21:27 6:33         developer 14:22:20         17:52:41 75:5         double 65:3 34:5         16:cusses 21:16         double 65:3 34:5           75:19,21:27 6:33         developer 14:18:6         director 174:12         discusses 21:61         20:19           66:80 73:22,247 75:18         12:22 31:3 59:18         developer 14:22:21         17:52:41 73:55         double 65:3 34:51           77:18 32:0 97:4         developer 14:18:3         discusses 31:64:16         discusses 31:64:16	147:23 149:17	Definitely 131:6			Discovery's 21:8	
$  \begin{array}{c c c c c c c c c c c c c c c c c c c $	187:12,15,18	e e	139:3 201:8 206:12	173:8,21 175:6		
dating 91:9         delays 36:13,25 37:6         137:15         181:16 183:10.18         62:11 64:16 110:20         136:2 173:13           dw 18 1:7,25 84:23         delegate 145:13         develope 7:29:9         96:1         184:25 1854:5.11         discuss 1:16,17.0.39         189:19 195:15           155:6 212:14 21:49         immutated 93:1         develope 7:19:9         file:et1 37:1         212:9         203:17           215:19         10:17 13:11,16,19         fireetor 174:12         48:6 50:17 79:16,18         95:25 201:4 203:15           days 21:6,20,23 3:1,2         demonstrating 48:17         67:13         developer 142:22         173:24 174:7,24         158:10 162:6         double 60:3 93:25           77:15 87:16 115:3         48:22         173:22 174:75         double 75:10         double 75:10         102:23 130:17         double 40:31:10           77:18 32:0 97:4         developer's 141:18         directors 18:10         discussing 1:24 2:4         double 42:5 21:12:4           77:18 32:0 97:4         denist 99:19:10:52         9:24 12:02.03:25         disgreed 20:25         discussing 1:34:24         down 18:23 21:12:4           77:18 33:0 97:4         denist 99:19:15:20         13:22 14:16:21:16:1         discussing 1:32:16         discussing 1:32:16         down 18:23 21:12:14           71:99:4         dissing 1:24:19:19			determined 20:20			
DAVID         defegate 145:13 (dw 158 117.25 84:23 215:19         develop 26:23 43:24 (dwonstrated 93:1 developed 7:19:9 139:15         H8:425 185:45.11 (struct) 77:16 85:8 direct) 77:16 185:9 discussed 27:17 35:5 double 63: 0127:91:618 95:25 201:4 203:15 double 60:39:35 double 60:30:35 double 60:30:35 double 60:30:35 double 60:30:30;22 double 60:30:30:35 double 60:30:35 double 60:						
day 18 1:17,25 84:23         deliberately 137.7         96:1         185:11,25 186.7         3:11 681:20.209:1         196:18 2004           155:6 21:14 21439         demonstration 34:17         direct 173:1         21:29         203:17           days 2:16,20,23 3:1,2         demonstration 84:17         67:13         director 174:12         discussed 2:17 3:55         double 65:3 9:35           0CF 33:24 58:7 6719         demonstration 84:17         67:13         director 174:12         158:10 16:26         double 69:31:8           75:19,21:27 67:33         demonstration 84:17         67:13         devoloper 14:22         173:24 174:72.44         158:10 16:26         double 49:31:           68:97 32:22,47 5:18         12:22 31:3 59:18         devoloper 14:11:8         dire/not 185:5         discussing 1:24 2:4         double 49:31:         double 49:31:         double 43:1         discussing 1:24:24 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>						
15:56:212:14:214-9         demonstraired 93:1         developed 7:19:9         direct 137:1         212:9         203:17           215:19         130:15         demonstrating 48:21         for 17:13:11,16:13         direct 77:16:85:8         discussed 27:17:35:5         double 65:3:93:5           35:13:6:60:24         demonstrations 48:17         67:13         directors 148:19         109:23:130:17         double 65:3:93:5           DCF 33:24:58:7:67:19         demonstrative 11:1         143:5         175:2,16         discusses 24:16         double 20:19:0           68:97:32:24:75:18         demonstrative 66:6.21         dirty 89:5         70:25:83:17         double 72:11:5:1           154:25:15:13         denied 209:19:0         9:24:12:02:03:25         discussion 3:3:4:13         down 18:23:24:13           154:25:15:13         depender 9:16:10         21:24:16:25:16:7         13:4:24:159:19         11:2,12:45:20         31:2:43:54:51:9           154:25:15:13         depender 9:16:16         21:24:10:32:32:5         dissuession 3:3:4:13         down 18:23:24:13           deal 44:22:25:15:13         depender 9:16:16         21:24:20:20:25:0         dissuession 3:3:4:13         down 18:23:24:13           deal 44:22:25:11:84         depender 9:17:18:52         22:17:24:23:25:25:25:11         dissuessue 02:11:6:1         dissuession 02:10:1:6:1		5			, ,	
215:19         130:15         10:17 13:11,16,19         directly 77:16 828         discussed 27:17 35:5         double 653 92:5           days 2:16,20,23 3:1,2         demonstrating 48:21         17:16 22:7,9,9 63:5         director 174:12         48:6 50:17 99:16,18         95:25 201:4 203:15           87:16 115:3         48:22         developer 142:22         173:24 174:72,4         158:10 162:6         double 03:1           0CF 33:24 587 67:19         demonstrative 11:1         143:5         175:25,16         discusses 24:16         201:9           68:97 3:22,24 75:18         12:22 31:3 59:18         developer 141:20,23,25         discussion 3:3 4:13         down 18:23 24:13           154:22 155:13         density 93:19 115:20         13:22 14:16,25 16:7         134:24 159:19         11:2,12 45:20         31:2 43:5 45:19           159:4 184:16         116:15,17,74         19:36 201:32,32         179:19         167:22 21:11         47:23,34 53:8,10           deadlines 213:21         depend 7:18 55:3         22:17.24 23:25         dissursed 154:13,18         dissursed 154:13,18         disposed 34:8         D7:32 38:7         19:25 20:17.23,35:8           dead 14:22,26 61:18         depender 59:519         27:14,18 31:3         154:20,20 205:20         dissursed 154:13,18         disposed 34:8         D7:34:53,4 128:11           dead 44:22,26				-		
days 2:16,20,23 3:1.2         demonstrating 48:21         17:16 227,9,9 63:5         director 174:12         48.6 50:17 79:16.18         99:52 501:4 203:15           35:13:6 60:24         demonstrations 48:17         67:13         directors 148:19         100:23 130:17         double 493:1           BCF 33:24 58:7 67:19         demonstrative 11:1         143:5         175:2,16         discusses 24:16         201:9           68:97 32:24 75:18         demonstrative 68:22         173:24 174:7,24         158:10 162:6         doubt 182:5 211:24           77:13:32 097:4         demonstratives 68:22         development 6:6,62:1         discussing 1:24 2:4         0obus 182:5 211:24           159:42 155:13         density 93:19 115:20         13:22 14:16,25 16:7         13:424 159:19         11:2,12 45:20         31:2 43:5 45:19           dead 191:2         117:16         21:4,16,18,23,25         disgreed 20:25         discussions 18:23         77:25 85:4 128:11           dead 44:22,31         dependency 94:16         25:18,25 279,111.13         15:42:0,20 20:519         dismissa 209:8         129:13 13:61:3           deat 44:22,31         dependency 94:16         23:18,22 43:8         discusser 138:16         disposed 34:8         D7 :34,52,122 41:3           deat 44:22,31         disposed 34:48         D7 :34,52,122 41:3         disposed 34:8 <td< td=""><td></td><td></td><td>-</td><td></td><td></td><td></td></td<>			-			
5         13:6         60:24         demonstrations         48:17         67:13         directors         148:19         109:23         130:17         double-counting           DCF         33:24         48:22         demonstrative         11:1         143:5         175:2,16         discusses         24:14         20:19         double-counting         20:19           68:973:22,2475:18         12:22         31:35:59:18         developers         143:5         175:2,16         discusses         24:12:4         double-counting         20:19           77:13         83:20 97:4         denied 209:19.20         9:24 12:20,23:25         disagree 132:16         discussion 3:3:4:13         down 18:23:24:13         115:15:14           159:4184:16         116:15,17,24         19:36:20:13,23:25         disagree 10:22:25         discussion 18:3:23         77:25 85:41:9         13:24:35:45:19           138:19         173:2         depend 7:18:52         27:17.42:32:5         discusser 13:81:6         discussion 18:3:23         77:25 85:41:9         19:02 5:00:5           dealt 18:12:33:20:51:8         depend 7:18:52         27:17.42:33:5:9         disclosure 138:16         disclosure 138:16         disclosure 138:16         disclosure 138:16         disclosure 138:16         dispose 34:8         17:9:31:5,13:21:19 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>						
87:16 115:3 DCF 33:24 58:7 67:19 (68:973:22,24 75:18         48:32 (emostrative 11:1 12:22 31:35 9:18 (emostrative 68:22 77:1 83:0974         deviloper 142:22 13:25 14:18 (emostrative 68:22 (emostrative 68:22 154:25 15:13 (emostrative 68:22 154:25 15:13 (emostrative 68:22 154:25 15:13 (emostrative 68:22 154:25 15:13 (emostrative 70:27 83:17 154:25 15:13 (emostrative 70:27 83:17 115:14 116:15,17,24 (emostrative 71:15)         13:22 14:16,25 16:7 13:22 14:16,25 16:7 13:22 14:16,25 16:7 13:22 14:16,25 16:7 13:22 14:16,18,23,25 (emostrative 71:16 13:22 14:16,18,23,25 13:22 13:16 (emostrative 71:16 13:21 17:16 (emostrative 71:16 13:11 17:12 13:19 173:2 (emostrative 71:16 13:19 173:2 (emostrative 71:16 13:10 10:11 10:12 13:25 14:23 13:25 14:23 14:23 14:23 14:23 14:24 14:24 14:11 14:11 14:12 14:15:12 15:18 23:7 15:12 15:18 23:7 15:12 1		8			-	
$\begin{array}{llllllllllllllllllllllllllllllllllll$						
68:9         73:22,24         75:18         12:22         31:23         12:22         31:23         12:22         12:23         <				-		
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $				· · · · · · · · · · · · · · · · · · ·		
77:183:2097:4denied $209:19,20$ $9:24$ $12:20,23,25$ disagree $13:216$ discussion $3:34:13$ $down$ $18:2324:13$ $154:25$ $155:13$ $116:15,17,24$ $119:3,6$ $12:21:416,2516:7$ $13:424:159:19$ $11:21,245:20$ $31:24:35:45:19$ $dead$ $116:15,17,24$ $119:3,6$ $21:3,23,25$ $disagreed$ $20:225$ $discussions$ $18:23$ $77:25$ $85:4128:11$ $dead$ $dependent$ $78:523$ $22:17,2423:25$ $disbursed$ $15:42:0,20:205:20$ $discussions$ $18:23$ $12:17:94$ $138:19$ $173:2$ $dependent$ $59:58:19$ $27:14,18$ $31:13$ $disbursement$ $20:19$ $15:220:25$ $15:220:25$ $deal$ $41:22:32:117:94$ $41:32:32:117:94$ $disposel$ $14:2:32:117:94$ $19:22:20:5$ $19:23:22:05:5$ $deal$ $41:22:32:117:94$ $34:23:35:18,22:43:8$ $discourt18:24:16:1819:22:20:512:3:25:18:22:43:8distick13:2841:35:91:16:1846:12,13:47:15:49:1discourt<20:22:11:4disposel34:23:51:16:2:12debt11:15:12118:24:12:2449:7:20:56:52:3220:1:47,8:10:12:12disputed 20:1:2,55:3,4:62:07:20debt118:24:12:2449:7:20:56:52:3220:1:47,24:20:22:0210:21:14:8:11:15:1212:24:13:21:12debt118:24:12:2449:7:20:56:52:52:57:12:1210:21:14:8:11:15:1212:24:13:21:1212:24:13:21:24:12:12decht118:2$	-		-		8	
154:25 155:13density 93:19 115:2013:22 14:16,25 16:717:24 159:191:12,12 45:2031:24 35:54:19159:4 184:16116:15,17,2419:3,6 20:13,23,25179:19167:22 212:1147:2,3,4 53:8,10dead 19:2117:1621:4,16,18,23,25disagreed 20:25discussions 183:2377:25 85:4 128:11deal 44:22,23 61:18depender, 94:1625:18,25 27:9,11,13disbursement 205:19disposal 80:24 168:16190:25 200:5depending 55:2032:21 33:9 34:3,20discomert 77:14disposal 80:24 168:16190:25 200:5detat 18:12 33:20 51:8depending 55:2032:21 33:9 34:3,20discomert 77:14disposal 80:24 168:16j51:12130:834:23 35:18,22 43:8disconmert 77:14dispute 1:4 173:917:7,9 3:15,18,21,22 4:1,3death 21:10depends 30:19,2043:16,18 466.9,1084:11199:24:1,3,5,9,1,41,9,25debt 77:20118:24 129:2449:7,20 05:6 88:5201:4,7,8,10,12,1421:2610:21 14:8,11 15:12debt 77:20118:24 129:2449:7,20 05:6 88:5201:4,7,8,10,12,1421:2610:21 14:8,11 15:12debt 78:20139:17 165:467:16 76:18 95:23201:17,24 202:5,20Disputes 1:215:18 23:7 26:22decide 103:22 105:22107:9,21,23 108:1,213:22 4:13,15disputing 208:3,731:24 32:16 40:23decide 145:24 212:1,2depth 8:20 11:2,9developments 5:9,1057:20 65:22 74:21disputing 208:3,731:24 32:16 40:23decide 145:24 215:12108:46,49,10,2134:22 49:2713:3:24 14:40:0436:22 9:5			• • •			5
159:4 184:16116:15,17,2419:3,6 20:13,23,25179:19167:22 212:1147:2,3,4 53:8,10dead 191:2117:1621:4,16,18,23,25disgurged 202:25dismiss 209:1713:213:21deal 44:22,23 61:18dependency 94:1625:18,25 27:9,11,13154:20,20 205:20dismiss 209:17142:3,21 179:4138:19 173:2dependent 59:5 85:1927:14,18 31:13discourse 108:16disposed 34:819:02:5 200:5deatt 18:12 33:20 51:8depending 55:2032:21 33:9 34:3,20discoure 178:16disposed 34:819:02:5 200:5dehat 91:19depends 30:19,2043:16,18 46:6,9,1084:11199:24:1,35,9,14,19,25dehat 91:1954:11 59:31 16:1846:12,13 47:15 49:1discourt 200:22 201:4dispoted 208:1,2,55:3,4 6:20 7:20debt 77:20118:24 129:2449:7,20 50:6 58:5201:17,24 202:52,0Dispute 1:215:18 23:7 26:22December 4:3 87:5178:1396:2,89,15,19203:13,15disputing 208:3,731:24 32:16 40:2313:25 144:23Depletion 8:24140:9discounted 57:10,16Disputes 1:215:10 47:4 50:17decide 10:322 10:52.2107:9,21,23 108:1,219:52 04:12.2928:9,10 30:1,16,2228:9,10 30:1,16,2228:9,10 30:1,16,22decide 14:524 212:1,2depth 8:20 11:2,9developments 59,1057:4,12 12:1228:9,10 30:1,16,2258:5 63:2,57:7,2310:4:14 105:17108:24 109:4,5,8devoted 38:12200:9 201:284:586:14,23,24 87:1,310:4:14 105:17108:24 109:4,5,8devoted 38:12 <td< td=""><td></td><td>-</td><td></td><td></td><td></td><td></td></td<>		-				
dead 191:2117:1621:4,16,18,23,25disagreed 202:25discussions 183:2377:25 85:4 128:11deal 4:22,23 61:18depend 7:1 85:2322:17,24 23:25dismissal 2005:20dismissal 2009:17142:3,21 179:4deal 4:22,23 61:18dependent 59:5 85:1927:14,18 31:13dismoreal 154:20,20 205:20dismissal 2009:17142:3,21 179:4deal 4:22,23 61:18depending 55:2032:21 33:9 34:3,20discomre 138:16disposal 80:24 168:16190:25 200:5death 211:10depending 55:2032:21 33:9 34:3,20discomre 177:14disposal 80:24 168:16190:25 200:5death 211:10depending 30:19,2043:16,18 46:6,9,1084:11199:217:9,31:5,18,21,23debt 91:1954:11 59:3 116:1846:12,13 47:15 49:1discomre 177:14disputed 208:1,2,55:3,4 6:20 7:20debt 82:8139:17 165:467:16 76:18 95:23201:17,24 202:5,20Disputes 1:215:18 23:7 26:22December 4:3 87:5178:1396:2,8,9,15,19203:13,15Disputes 1:215:18 23:7 26:22decide 103:22 105:22107:9,21,23 108:1,215:2 26:15 32:375:4,12 132:1228:9,10 30:1,16,2258:5 63:2 75:7,23decide 103:22 105:22107:9,21,23 108:1,215:2 26:15 32:375:4,12 132:1228:9,10 30:1,16,2258:5 63:2 75:7,23decide 103:22 105:22108:4,6,7,9,19,2134:22 49:22133:25 149:4 200:433:22 34:13 57:2486:14,23,24 87:1,3104:14 05:17108:24 109:4,58diagrams 50:23 89:22discounted 75:10distributions 8:14,1787:6,10,15,24,25					-	
deadlines 213:21 deal 4:22,23 61:18 138:19 173:2depend 7:1 85:23 dependency 94:16 dependency 94:16 dependency 94:16 dependency 94:16 dependency 94:16 dependency 94:16 dependency 94:16 dependency 94:16 dependency 94:16 dependency 94:16 dependent 59:5 85:19 depending 55:20 32:21 33:9 34:3,20 detalt 18:12 33:20 51:8 detalt 11:0 dependent 59:5 85:19 detalt 21:10 detalt 21:12 detalt 32:21 19:21 detalt 32:23 detalt 21:22 detalt 32:23 detalt 32:23 detalt 32:23 detalt 32:23 detalt 32:24 detalt 32:24						
deal 44:22,23 61:18 138:19 173:2 dependent 59:5 85:19 dependent 59:5 85:1925:18,25 27:9,11,13 27:14,18 31:13 34:23 35:48,22 43:8154:20,20 205:20 disposed 80:24 168:16 disposed 80:24 168:16 disposed 80:24 168:16 disposed 80:24 168:16142:3,21 179:4 190:25 200:5dealt 18:12 33:20 51:8 debet 21:10depends 30:19,20 51:11 59:3 116:18 debt 77:2043:16,18 46:6,9,10 45:11 59:3 116:18 de12,13 47:15 49:11 discount 20:022 201:47 discount 20:022 201:4disposed 34:8 discount 20:022 201:4 discount 20:022 201:4199:2 discount 20:022 201:4 discount 20:022 201:441:3,59,14,19,25 discount 20:022 201:4 discount 20:022 201:4disposed 34:8 discount 20:022 201:4 discount 20:022 201:417:9 31:5,18,21,23 discount 20:022 201:4 discount 20:022 201:4disposed 34:8 discount 20:022 201:4 discount 20:022 201:4disposed 34:8 discount 20:022 201:4 discount 20:022 201:417:0 31:5,18,21,23 discount 20:022 201:4 discount 20:022 201:4dispute 1:4 173:9 dispute 1:4 173:917:0 31:5,18,21,23 discount 20:022 201:4debt 77:20118:24 129:24 49:72 05 05:55 25 discount 20:022 201:4 discount 20:022 20:14discount 20:022 20:14 dispute 20:81,2,5discount 20:02:02 5:3,4 6:20 7:20discount 20:022 20:14 dispute 1:4 173:917:0 31:5,18,21,23 10:21 14:8,11 15:12decide 14:24 219:24 decide 145:24 212:1,2 decide 145:24 212:1,2 decide 10:3:22 105:22 107:9,21,23 108:1,2discount 20:022,14 33:22 34:13 57:24discount 20:02 20:12 dispute 15:1,16,20distribution 8:20 11:2 54:25 55:25 57:7,23 33:24 48:11,31 106:6,7 142:12 decide 13:22 105:24discount 30:02 11:2 13:22 14:23distribution 8:20 11:2 				0		
138:19 173:2 dependent 59:5 85:19 detal 18:12 33:20 51:8depending 55:20 32:21 33:9 34:3,20 34:23 35:18,22 43:8disbursement 205:19 disclosure 138:16 disposed 34:8190:25 200:5 H39:20 43:16,18 46:6,0,10 84:11death 211:10 debate 91:19depends 30:19,20 54:11 59:3 116:18 debate 91:1943:16,18 46:6,0,10 54:11 59:3 116:18 18:24 129:2484:11 49:7,20 50:6 58:5 178:13199:2 201:4,7,8,10,12,14 201:7,24 202:5,20dispute 1:4 173:9 199:217.79 3:15,18,21,23 1.79,315,18,21,23debts 182:8 becember 4:3 87:5 138:25 144:23139:17 165:4 (ecide 145:24 212:1,2) deth 8:2467:16 76:18 95:23 178:13201:17,24 202:5,20 201:17,24 202:5,20Disputes 1:2 disputes 1:210:21 14:8,11 15:12 10:21 14:8,11 15:12decide 145:24 212:1,2 decide 145:24 212:1,2 decide 145:24 212:1,2Depletion 8:24 (ecide 145:24 212:1,2) developments 5:9,10discount d57:10,16 57:20 65:22 74:21Distance 24:19 distribution 8:20 11:2 54:25 55: 25.7:2,23106:6,7 142:12 decisons 51:3 211:25108:4,6,7,9,19,21 108:24 109:4,5,8devoted 38:12 diagrams 50:23 89:22200:9 201:2 13:25 149:4 200:484:5 33:22 54:13 57:2486:14,23,24 87:1,3106:6,7 142:12 decisons 51:3 211:25disgrams 50:23 89:22 diagrams 50:23 89:22discover 18:15,16,20 discover 18:15,16,20divide 96:23 divide 138:2,2125:20 107:18 143:1,416 144:14 divide 96:2319:23 92:16 95:1 decisons 51:3 211:25derives 66:4:1,13 diagrams 50:23 89:22 diameter 32:13discover 18:15,16,20 discover 18:15,16,20divide 96:23 divide 138:2,2125:20 107:18 143:1,416 144:14 divide 96:			-		-	
dealt18:1233:2033:2133:3934:3,20disclosure18:16disposed34:8Dr3:4,5,21,224:1,351:12130:834:2335:18,2243:8disconnect77:14dispote14:173:91:7,93:15,18,21,23death211:10depends30:19,2043:16,1846:6,9,1043:16,1846:12,1341:1549:149:2199:24:1,3,5,9,14,19,25debt77:20118:24129:2449:7,2050:658:5201:4,7,8,10,12,14212:610:2114:8,1115:12December4:387:5178:1396:28,9,15,19203:13,15dispute208:3,731:2431:2431:2431:2431:2440:2440:9discounted57:10,16Distance41:945:1047:45 0:17decide145:24210:22107:9,21,23108:1,215:226:1532:375:4,2552:557:12,2028:9,1031:2258:563:257:7,2348:4249:1047:45 0:1748:546:14,23,2486:14,23,2486:14,23,2486:14,23,2486:14,23,2486:14,23,2486:14,23,2486:14,23,2486:14,23,2487:10,15,24,2558:563:257:7,2375:4276:41,86:1186:14,23,2487:61,01,5,24,2558:563:257:7,2375:4276:41,86:1186:14,23,2487:61,01,5,24,2588:2,290:510:5261:66:2048:548:548:1440:948:586:14,23,2487:61,0	-			·		
51:12130:834:23 35:18,22 43:8disconnect 77:14dispute 1:4 173:91:7,9 3:15,18,21,23death 211:10depends 30:19,2043:16,18 46:6,9,1084:11199:241:1,3,5,9,14,19,25debt 7:20118:24 129:2446:12,13 47:15 49:1discount 200:22 201:4dispute 208:1,2,55:3,4 6:20 - 20debt 7:20118:24 129:2447:7,20 50:6 58:5201:4,7,8,10,12,14212:610:21 14:8,11 15:12debt 7:20178:1396:2,8,9,15,19203:13,15dispute 320:3,731:24 32:16 40:23December 4:3 87:5178:1396:2,8,9,15,19203:13,15distibution 8:20 11:254:21 55:25 57:1,220decide 145:24 122:1,2107:9,2,1,23 108:1,215:2 26:15 32:375:4,12 132:1228:9,10 30:1,16,2258:5 63:2 75:7,23decide 103:22 105:22107:9,2,1,23 108:1,215:2 26:15 32:375:4,12 132:1228:9,10 30:1,16,2258:5 63:2 75:7,23decide 103:22 105:22107:9,2,1,23 108:1,215:2 26:15 32:375:4,12 132:1228:9,10 30:1,16,2258:5 63:2 75:7,23decison 42:21 57:23108:4,6,7,9,19,2134:22 49:22133:25 149:4 200:433:22 34:13 57:2475:24 76:4,18 86:11104:14 105:17108:24 109:4,5,8diagram 88:14,18discounting 75:10distributions 8:14,1787:6,10,15,24,25decisons 51:3 211:25128:23 129:490:3discover 18:15,16,20divide 96:23128:11 129:1decison 51:3 211:25derive 6:64:1,13diagrams 50:23 89:22discover 18:15,16,20divide 96:23128:11 129:1decison 51:3 211:25der				disbursement 205:19		
death 211:10depends 30:19,2043:16,18 46:6,9,1084:11199:24:1,3,5,9,14,19,25debate 91:1954:11 59:3 116:1846:12,13 47:15 49:1discount 200:22 201:4disputed 208:1,2,55:3,4 6:20 7:20debt 77:20118:24 129:2449:7,20 50:6 58:5201:47,8,10,12,14212:610:21 14:8,11 15:12debt 82:8139:17 165:467:16 76:18 95:23201:17,24 202:5,20Disputes 1:215:18 237 26:22December 4:3 87:5178:1396:2,8,9,15,19203:13,15discounted 57:10,16Distance 24:1945:10 47:4 50:17decide 145:24 212:1,2depth 8:20 11:2,9developments 5:9,1057:20 65:22 74:21distribution 8:20 11:254:25 55:2 57:7,23decision 42:21 57:23108:4,6,7,9,19,2134:22 49:22133:25 149:4 200:433:22 34:13 57:2475:24 76:4,18 86:11104:14 105:17108:24 109:4,5,8devoted 38:12200:9 201:284:586:14,23,24 87:1,3106:6,7 142:12depth 11:18,20 13:2diagram 88:14,18discounting 75:10distributions 8:14,1787:6,10,15,24,2519:23 92:16 95:1derive 8:6 64:1,13diagrams 50:23 89:22discoverable 18:2doable 13:10 43:18143:14,16 144:1419:23 92:16 95:1derive 75:4,6differ 162:320:1 43:176:15Doctor 141:11144:17,24 145:8,1656:13 87:9 145:4derives 75:4,6differ 162:320:1 43:176:15Doctor 141:11144:17,24 145:8,1656:13 87:9 145:4derives 75:4,6differ 162:320:1 43:176:15Doctor 141:11144:14,16 144:14209:10 <td>dealt 18:12 33:20 51:8</td> <td>demonding 55.20</td> <td></td> <td></td> <td>1</td> <td></td>	dealt 18:12 33:20 51:8	demonding 55.20			1	
debate 91:1954:11 59:3 116:1846:12,13 47:15 49:1discount 200:22 201:4disputed 208:1,2,55:3,4 6:20 7:20debt 77:20118:24 129:2449:7,20 50:6 58:5201:4,7,8,10,12,14212:610:21 14:8,11 15:12debts 182:8139:17 165:467:16 76:18 95:23201:17,24 202:5,20Disputes 1:210:21 34:8,11 15:12December 4:3 87:5178:1396:2,8,9,15,19203:13,15discount d 57:10,16Disputes 1:215:18 23:7 26:22decide 145:24 212:1,2depth 8:20 11:2,9developments 5:9,1015:2 26:15 32:375:4,12 132:1228:9,10 30:1,16,2258:5 63: 75:7,23decide 145:24 212:1,2depth 8:20 11:2,9devoted 38:12discount 200:9 201:2distribution 8:20 11:254:25 55: 2 57:12,20decide 145:1710:8:4,6,7,9,19,2134:22 49:22133:25 149:4 200:433:22 34:13 57:2475:24 76:4,18 86:1110:4:14 105:1710:8:4,67,9,19,21diagram 88:14,18discounting 75:10distributions 8:14,1786:14,23,24 87:1,310:6:6,7 142:12depths 11:18,20 13:2128:23 129:490:3diagrams 50:23 89:22discoure 18:15,16,20divide 138:2,2125:20 127:1819:23 92:16 95:1derive 8:6 64:1,13diagrem 85:12, 30:2320:1 43:1 76:15document 23:8 24:5145:23 146:1,4,1119:23 92:16 95:1derive 75:4,6differ 162:320:1 43:1 76:15Doctor 141:11144:17,24 145:8,1620:10 92:10differ 162:3101:15 105:447:7,75 75:25 88:199:15 102:19152:19 153:416:13 87:9 145:4deerive 75:4,6differ					disposed 34:8	Dr 3:4,5,21,22 4:1,3
debt 77:20118:24 129:2449:7,20 50:6 58:5201:4,7,8,10,12,14212:610:21 14:8,11 15:12debts 182:8139:17 165:467:16 76:18 95:23201:17,24 202:5,20Disputes 1:215:18 23:7 26:22December 4:3 87:5178:1396:2,8,9,15,19203:13,15disputing 208:3,731:24 32:16 40:23138:25 144:23Depletion 8:24140:9discounted 57:10,16Distance 24:1945:10 47:4 50:17decide 145:24 212:1,2depth 8:20 11:2,9developments 5:9,1057:20 65:22 74:21distribution 8:20 11:258:5 63:2 75:7,23decision 42:21 57:23108:4,6,7,9,19,2134:22 49:22133:25 149:4 200:433:22 34:13 57:2475:24 76:4,18 86:11104:14 105:17108:24 109:4,5,8devoted 38:12200:9 201:284:586:14,23,24 87:1,3106:6,7 142:12depths 11:18,20 13:2diagram 88:14,18discounting 75:10distributions 8:14,1787:6,10,15,24,25decisions 51:3 211:25128:23 129:490:3diagrams 50:23 89:22discover 18:15,16,20divide 138:2,2125:20 127:18decisions 71:3derive 6:64:1,13diagrams 53:9discover 18:15,16,20divide 96:23128:11 129:1declaration 4:1875:22 79:19differ 162:320:1 43:1 76:15Doctor 141:11144:17,24 145:8,1656:13 87:9 145:4derive 65:16differ 162:320:1 43:1 76:15Doctor 141:11144:17,24 145:8,1656:13 87:9 145:4derive 65:16differ 162:390:15 105:441:7,17 57:25 58:190:15 102:19152:14 84:9desribe 43:9 <td></td> <td>130:8</td> <td></td> <td>disconnect 77:14</td> <td><b>disposed</b> 34:8 <b>dispute</b> 1:4 173:9</td> <td>Dr 3:4,5,21,22 4:1,3</td>		130:8		disconnect 77:14	<b>disposed</b> 34:8 <b>dispute</b> 1:4 173:9	Dr 3:4,5,21,22 4:1,3
debt 77:20118:24 129:2449:7,20 50:6 58:5201:4,7,8,10,12,14212:610:21 14:8,11 15:12debts 182:8139:17 165:467:16 76:18 95:23201:17,24 202:5,20Disputes 1:215:18 23:7 26:22December 4:3 87:5178:1396:2,8,9,15,19203:13,15disputing 208:3,731:24 32:16 40:23138:25 144:23Depletion 8:24140:9discounted 57:10,16Distance 24:1945:10 47:4 50:17decide 145:24 212:1,2depth 8:20 11:2,9developments 5:9,1057:20 65:22 74:21distribution 8:20 11:258:5 63:2 75:7,23decision 42:21 57:23108:4,6,7,9,19,2134:22 49:22133:25 149:4 200:433:22 34:13 57:2475:24 76:4,18 86:11104:14 105:17108:24 109:4,5,8devoted 38:12200:9 201:284:586:14,23,24 87:1,3106:6,7 142:12depths 11:18,20 13:2diagram 88:14,18discounting 75:10distributions 8:14,1787:6,10,15,24,25decisions 51:3 211:25128:23 129:490:3diagrams 50:23 89:22discover 18:15,16,20divide 138:2,2125:20 127:18decisions 71:3derive 6:64:1,13diagrams 53:9discover 18:15,16,20divide 96:23128:11 129:1declaration 4:1875:22 79:19differ 162:320:1 43:1 76:15Doctor 141:11144:17,24 145:8,1656:13 87:9 145:4derive 65:16differ 162:320:1 43:1 76:15Doctor 141:11144:17,24 145:8,1656:13 87:9 145:4derive 65:16differ 162:390:15 105:441:7,17 57:25 58:190:15 102:19152:14 84:9desribe 43:9 <td>death 211:10</td> <td>130:8 depends 30:19,20</td> <td>34:23 35:18,22 43:8</td> <td><b>disconnect</b> 77:14 84:11</td> <td>disposed 34:8 dispute 1:4 173:9 199:2</td> <td><b>Dr</b> 3:4,5,21,22 4:1,3 1:7,9 3:15,18,21,23</td>	death 211:10	130:8 depends 30:19,20	34:23 35:18,22 43:8	<b>disconnect</b> 77:14 84:11	disposed 34:8 dispute 1:4 173:9 199:2	<b>Dr</b> 3:4,5,21,22 4:1,3 1:7,9 3:15,18,21,23
December 4:3 87:5178:1396:2,8,9,15,19203:13,15disputing 208:3,731:24 32:16 40:23138:25 144:23Depletion 8:24140:9discounted 57:10,16Distance 24:1945:10 47:4 50:17decide 145:24 212:1,2depth 8:20 11:2,9developments 5:9,1057:20 65:22 74:21distribution 8:20 11:254:25 55: 2 57:12,20decide 103:22 105:22107:9,21,23 108:1,215:2 26:15 32:375:4,12 132:1228:9,10 30:1,16,2258:5 63: 2 75:7,23decision 42:21 57:23108:4,6,79,19,2134:22 49:22133:25 149:4 200:433:22 34:13 57:2475:54,23 23:43104:14 105:17108:24 109:4,5,8devoted 38:12200:9 201:284:586:14,23,24 87:1,3decision 51:3 211:25128:23 129:490:3106:18:22 9:5 57:2197:12,22 106:25decision-tree 19:16,18derive 8:6 64:1,13diagrams 50:23 89:22discover 18:15,16,20divide 138:2,2125:20 127:1819:23 92:16 95:1derived 6:10 66:20diameter 32:1319:8 114:18divided 96:23128:11 129:1declaration 4:1872:13 74:12 75:12diameter 53:9discoverable 18:2doable 13:10 43:18143:14,16 144:1440:19 44:15,1875:22 79:19difference 42:12 43:49:24 27:6 40:1225:3 72:7,25 81:7146:13,21,22 148:856:13 87:9 145:4derives 65:1846:19 27:97:149:24 27:6 40:1225:3 72:7,25 81:7146:13,21,22 148:8declarations 78:25describe 43:9101:15 105:441:7,17 57:25 58:199:15 102:19152:19 152:19 152:19declaration 57:5,8<	death 211:10	130:8 depends 30:19,20	34:23 35:18,22 43:8 43:16,18 46:6,9,10	<b>disconnect</b> 77:14 84:11	disposed 34:8 dispute 1:4 173:9 199:2	<b>Dr</b> 3:4,5,21,22 4:1,3 1:7,9 3:15,18,21,23 4:1,3,5,9,14,19,25 5:3,4 6:20 7:20
December 4:3 87:5178:1396:2,8,9,15,19203:13,15disputing 208:3,731:24 32:16 40:23138:25 144:23Depletion 8:24140:9discounted 57:10,16Distance 24:1945:10 47:4 50:17decide 145:24 212:1,2depth 8:20 11:2,9developments 5:9,1057:20 65:22 74:21distribution 8:20 11:254:25 55: 2 57:12,20decide 103:22 105:22107:9,21,23 108:1,215:2 26:15 32:375:4,12 132:1228:9,10 30:1,16,2258:5 63: 2 75:7,23decision 42:21 57:23108:4,6,79,19,2134:22 49:22133:25 149:4 200:433:22 34:13 57:2475:54,23 23:43104:14 105:17108:24 109:4,5,8devoted 38:12200:9 201:284:586:14,23,24 87:1,3decision 51:3 211:25128:23 129:490:3106:18:22 9:5 57:2197:12,22 106:25decision-tree 19:16,18derive 8:6 64:1,13diagrams 50:23 89:22discover 18:15,16,20divide 138:2,2125:20 127:1819:23 92:16 95:1derived 6:10 66:20diameter 32:1319:8 114:18divided 96:23128:11 129:1declaration 4:1872:13 74:12 75:12diameter 53:9discoverable 18:2doable 13:10 43:18143:14,16 144:1440:19 44:15,1875:22 79:19difference 42:12 43:49:24 27:6 40:1225:3 72:7,25 81:7146:13,21,22 148:856:13 87:9 145:4derives 65:1846:19 27:97:149:24 27:6 40:1225:3 72:7,25 81:7146:13,21,22 148:8declarations 78:25describe 43:9101:15 105:441:7,17 57:25 58:199:15 102:19152:19 152:19 152:19declaration 57:5,8<	<b>death</b> 211:10 <b>debate</b> 91:19	130:8 <b>depends</b> 30:19,20 54:11 59:3 116:18	34:23 35:18,22 43:8 43:16,18 46:6,9,10 46:12,13 47:15 49:1	<b>disconnect</b> 77:14 84:11 <b>discount</b> 200:22 201:4	disposed 34:8 dispute 1:4 173:9 199:2 disputed 208:1,2,5 212:6	<b>Dr</b> 3:4,5,21,22 4:1,3 1:7,9 3:15,18,21,23 4:1,3,5,9,14,19,25 5:3,4 6:20 7:20
138:25 144:23 decide 145:24 212:1,2 decide 103:22 105:22Depletion 8:24140:9discounted 57:10,16 57:20 65:22 74:21Distance 24:1945:10 47:4 50:17decide 103:22 105:22 decision 42:21 57:23107:9,21,23 108:1,2 108:24 109:4,5,815:2 26:15 32:3 34:22 49:2257:20 65:22 74:21 75:4,12 132:12distribution 8:20 11:2 28:9,10 30:1,16,2258:5 63:2 75:7,23 58:5 63:2 75:7,23106:6,7 142:12 decision 51:3 211:25108:24 109:4,5,8 108:24 109:4,5,8devted 38:12 devted 38:12200:9 201:2 106:138:22 9:5 57:21 85:10 47:4 20:4386:14,23,24 86:11 87:6,10,15,24 25106:6,7 142:12 decision 51:3 211:25depths 11:18,20 13:2 128:23 129:4diagram 88:14,18 90:3discounting 75:10 106:1distributions 8:14,17 8:22 9:5 57:2187:6,10,15,24,25 97:12,22 106:25decision-tree 19:16,18 19:23 92:16 95:1 declaration 4:18 40:19 44:15,1872:13 74:12 75:12 75:22 79:19diagrams 50:23 89:22 differ 162:3discover 18:15,16,20 19:8 114:18divide 96:23 divide 96:23128:11 129:1 143:14,16 144:14 144:17,24 145:8,16 document 23:8 24:5143:14,16 144:14 144:17,24 145:8,16 discovered 6:9,11 9:24 27:6 40:12Doctor 141:11 25:3 72:7,25 81:7146:13,21,22 148:8 145:23 146:1,321,22 148:8declarations 78:25 declarations 78:25 87:10 145:5,818:4,8 22:12 29:8130:4 142:1763:4 64:15 65:3 74:23 75:6 76:2,17132:20 138:14,22 146:8156:22,24 157:5 146:8	death 211:10 debate 91:19 debt 77:20	130:8 <b>depends</b> 30:19,20 54:11 59:3 116:18 118:24 129:24	34:23 35:18,22 43:8 43:16,18 46:6,9,10 46:12,13 47:15 49:1 49:7,20 50:6 58:5	<b>disconnect</b> 77:14 84:11 <b>discount</b> 200:22 201:4 201:4,7,8,10,12,14	disposed 34:8 dispute 1:4 173:9 199:2 disputed 208:1,2,5 212:6	<b>Dr</b> 3:4,5,21,22 4:1,3 1:7,9 3:15,18,21,23 4:1,3,5,9,14,19,25 5:3,4 6:20 7:20 10:21 14:8,11 15:12
decide145:24 212:1,2 decideddepth8:20 11:2,9 107:9,21,23 108:1,2 107:9,21,23 108:1,2 108:4,6,7,9,19,21developments5:9,10 15:2 26:15 32:3 34:22 49:2257:20 65:22 74:21 75:4,12 132:12 133:25 149:4 200:4distribution8:20 11:2 28:9,10 30:1,16,22 33:22 34:13 57:2454:25 55:2 57:12,20 58:5 63:2 75:7,23decision42:21 57:23 108:4,6,7,9,19,21 108:24 109:4,5,8108:4,6,7,9,19,21 devoted34:22 49:22 devoted 38:12 90:3133:25 149:4 200:4 200:9 201:233:22 34:13 57:24 84:558:5 63:2 75:7,23 75:24 76:4,18 86:11 86:14,23,24 87:1,3106:6,7 142:12 decisions 51:3 211:25 decision 51:3 211:25 128:23 129:4devoted 38:12 90:3200:9 201:2 106:1distributions 8:14,17 8:22 9:5 57:2187:6,10,15,24,25 97:12,22 106:25decision-tree19:16,18 derive 6:10 66:20 diameter 32:13diagrams 50:23 89:22 diameter 32:13discover 18:15,16,20 19:8 114:18divide 96:23 divide 96:23128:11 129:1 128:11 129:1declaration 4:18 40:19 44:15,18 20:1075:22 79:19 differ 162:3differ 162:3 differ 162:320:1 43:1 76:15 20:1 43:1 76:15Doctor 141:11 144:17,24 145:8,16declarations 78:25 87:10 145:5,8describe 43:9 101:15 105:446:1 92:7 97:14 40:19 42:1792:24 27:6 40:12 74:23 75:6 76:2,1725:3 72:7,25 81:7 146:8146:13,21,22 148:8 165:11,6,19 189:2declarations 78:25 87:10 145:5,818:4,8 22:12 29:8100:15 105:4 130:4 142:1741:7,17 57:25 58:1 74:23 75:6 76:2,1799:15 102:19 146:8152:19 153:4 165:11,16,19 189:2	death 211:10 debate 91:19 debt 77:20 debts 182:8	130:8 <b>depends</b> 30:19,20 54:11 59:3 116:18 118:24 129:24 139:17 165:4	34:23 35:18,22 43:8 43:16,18 46:6,9,10 46:12,13 47:15 49:1 49:7,20 50:6 58:5 67:16 76:18 95:23	disconnect 77:14 84:11 discount 200:22 201:4 201:4,7,8,10,12,14 201:17,24 202:5,20	disposed 34:8 dispute 1:4 173:9 199:2 disputed 208:1,2,5 212:6 Disputes 1:2	Dr 3:4,5,21,22 4:1,3 1:7,9 3:15,18,21,23 4:1,3,5,9,14,19,25 5:3,4 6:20 7:20 10:21 14:8,11 15:12 15:18 23:7 26:22
decided 103:22 105:22107:9,21,23 108:1,215:2 26:15 32:375:4,12 132:1228:9,10 30:1,16,2258:5 63:2 75:7,23decision 42:21 57:23108:4,6,7,9,19,2134:22 49:22133:25 149:4 200:433:22 34:13 57:2475:24 76:4,18 86:11104:14 105:17108:24 109:4,5,8devoted 38:12200:9 201:284:586:14,23,24 87:1,3106:6,7 142:12depths 11:18,20 13:2128:23 129:490:3discounting 75:10distributions 8:14,1787:6,10,15,24,25decision-tree 19:16,18derive 8:6 64:1,13diagrams 50:23 89:22discover 18:15,16,20divide 138:2,2125:20 127:1819:23 92:16 95:1derive 6:10 66:20diameter 32:1319:8 114:18divided 96:23128:11 129:1declaration 4:1872:13 74:12 75:12diameters 53:90:14 31:76:15Doctor 141:11144:17,24 145:8,1640:19 44:15,1875:22 79:19differ 162:30:14 31:76:15Doctor 141:11144:17,24 145:8,16209:10derives 65:1846:1 92:7 97:149:24 27:6 40:1225:3 72:7,25 81:7146:13,21,22 148:8declarations 78:25describe 43:9101:15 105:441:7,17 57:25 58:199:15 102:19152:19 153:4declare 4:19 56:14describe 7:7 13:15113:18 129:1963:4 64:15 65:3132:20 138:14,22156:22,24 157:587:10 145:5,818:4,8 22:12 29:8130:4 142:1774:23 75:6 76:2,17146:8165:11,6,19 189:2	death 211:10 debate 91:19 debt 77:20 debts 182:8 December 4:3 87:5	130:8 depends 30:19,20 54:11 59:3 116:18 118:24 129:24 139:17 165:4 178:13	34:23 35:18,22 43:8 43:16,18 46:6,9,10 46:12,13 47:15 49:1 49:7,20 50:6 58:5 67:16 76:18 95:23 96:2,8,9,15,19	disconnect 77:14 84:11 discount 200:22 201:4 201:4,7,8,10,12,14 201:17,24 202:5,20 203:13,15	disposed 34:8 dispute 1:4 173:9 199:2 disputed 208:1,2,5 212:6 Disputes 1:2 disputing 208:3,7	Dr 3:4,5,21,22 4:1,3 1:7,9 3:15,18,21,23 4:1,3,5,9,14,19,25 5:3,4 6:20 7:20 10:21 14:8,11 15:12 15:18 23:7 26:22 31:24 32:16 40:23
decision 42:21 57:23108:4,6,7,9,19,2134:22 49:22133:25 149:4 200:433:22 34:13 57:2475:24 76:4,18 86:11104:14 105:17108:24 109:4,5,8devoted 38:12200:9 201:284:586:14,23,24 87:1,3106:6,7 142:12depths 11:18,20 13:2128:23 129:490:3discounting 75:10106:182:2 9:5 57:21decision-tree 19:16,18derive 8:6 64:1,13diagrams 50:23 89:22diagrams 50:23 89:22discover 18:15,16,20divide 138:2,2125:20 127:18declaration 4:1872:13 74:12 75:12diameter 32:13diameter 32:1319:8 114:18doable 13:10 43:18143:14,16 144:1440:19 44:15,1875:22 79:19differ 162:320:1 43:1 76:15doable 13:10 43:18143:14,16 144:14209:10derives 75:4,6differ 162:3discovered 6:9,11document 23:8 24:5145:23 146:1,4,11209:10deriving 65:1846:1 92:7 97:149:24 27:6 40:1225:3 72:7,25 81:7146:13,21,22 148:8declaration 578:25describe 43:9101:15 105:441:7,17 57:25 58:199:15 102:19152:19 153:4declare 4:19 56:14describe 7:7 13:15113:18 129:1963:4 64:15 65:3132:20 138:14,22156:22,24 157:587:10 145:5,818:4,8 22:12 29:8130:4 142:1774:23 75:6 76:2,17146:8165:11,16,19 189:2	death 211:10 debate 91:19 debt 77:20 debts 182:8 December 4:3 87:5 138:25 144:23	130:8 depends 30:19,20 54:11 59:3 116:18 118:24 129:24 139:17 165:4 178:13 Depletion 8:24	34:23 35:18,22 43:8 43:16,18 46:6,9,10 46:12,13 47:15 49:1 49:7,20 50:6 58:5 67:16 76:18 95:23 96:2,8,9,15,19 140:9	disconnect 77:14 84:11 discount 200:22 201:4 201:4,7,8,10,12,14 201:17,24 202:5,20 203:13,15 discounted 57:10,16	disposed 34:8 dispute 1:4 173:9 199:2 disputed 208:1,2,5 212:6 Disputes 1:2 disputing 208:3,7 Distance 24:19	Dr 3:4,5,21,22 4:1,3 1:7,9 3:15,18,21,23 4:1,3,5,9,14,19,25 5:3,4 6:20 7:20 10:21 14:8,11 15:12 15:18 23:7 26:22 31:24 32:16 40:23 45:10 47:4 50:17
104:14 105:17108:24 109:4,5,8devoted 38:12200:9 201:284:586:14,23,24 87:1,3106:6,7 142:12depts 11:18,20 13:2128:23 129:490:3discounting 75:1010:1187:6,10,15,24,25decisions 51:3 211:25128:23 129:490:3diagrams 50:23 89:22discourting 75:10distributions 8:14,1787:6,10,15,24,25decision-tree 19:16,18derive 8:6 64:1,13diagrams 50:23 89:22diagrams 50:23 89:22discover 18:15,16,20divide 138:2,2125:20 127:18declaration 4:1872:13 74:12 75:12diameter 32:1319:8 114:18divided 96:23128:11 129:1declaration 4:1872:13 74:12 75:12diameters 53:9discoverable 18:2doable 13:10 43:18143:14,16 144:1440:19 44:15,1875:22 79:19differ 162:320:1 43:1 76:15Doctor 141:11144:17,24 145:8,1656:13 87:9 145:4derives 75:4,6differ 162:320:1 43:1 76:15Doctor 141:11144:17,24 145:8,16209:10deriving 65:1846:1 92:7 97:149:24 27:6 40:1225:3 72:7,25 81:7146:32,1,22 148:8declarations 78:25describe 43:9101:15 105:441:7,17 57:25 58:199:15 102:19152:19 153:4declare 4:19 56:14described 7:7 13:15113:18 129:1963:4 64:15 65:3132:20 138:14,22156:22,24 157:587:10 145:5,818:4,8 22:12 29:8130:4 142:1774:23 75:6 76:2,17146:8165:11,16,19 189:2	death 211:10 debate 91:19 debt 77:20 debts 182:8 December 4:3 87:5 138:25 144:23 decide 145:24 212:1,2	130:8 depends 30:19,20 54:11 59:3 116:18 118:24 129:24 139:17 165:4 178:13 Depletion 8:24 depth 8:20 11:2,9	34:23 35:18,22 43:8 43:16,18 46:6,9,10 46:12,13 47:15 49:1 49:7,20 50:6 58:5 67:16 76:18 95:23 96:2,8,9,15,19 140:9 <b>developments</b> 5:9,10	disconnect 77:14 84:11 discount 200:22 201:4 201:4,7,8,10,12,14 201:17,24 202:5,20 203:13,15 discounted 57:10,16 57:20 65:22 74:21	disposed 34:8 dispute 1:4 173:9 199:2 disputed 208:1,2,5 212:6 Disputes 1:2 disputing 208:3,7 Distance 24:19 distribution 8:20 11:2	Dr 3:4,5,21,22 4:1,3 1:7,9 3:15,18,21,23 4:1,3,5,9,14,19,25 5:3,4 6:20 7:20 10:21 14:8,11 15:12 15:18 23:7 26:22 31:24 32:16 40:23 45:10 47:4 50:17 54:25 55:2 57:12,20
106:6,7 142:12 decisions 51:3 211:25depths 11:18,20 13:2 128:23 129:4diagram 88:14,18 90:3discounting 75:10 106:1distributions 8:14,17 8:22 9:5 57:2187:6,10,15,24,25 97:12,22 106:25decision-tree 19:16,18 19:23 92:16 95:1derive 8:6 64:1,13 derived 6:10 66:20diagrams 50:23 89:22 diameter 32:13discover 18:15,16,20 19:8 114:18divide 96:23 doable 13:10 43:18128:11 129:1declaration 4:18 40:19 44:15,18 56:13 87:9 145:475:22 79:19 deriver 55:4,6differ 162:3 differ 162:3discoverable 18:2 20:1 43:1 76:15doable 13:10 43:18 Doctor 141:11144:17,24 145:8,16 dozement 23:8 24:5declarations 78:25 declare 4:19 56:14 87:10 145:5,8describe 43:9 18:4,8 22:12 29:8101:15 105:4 113:18 129:1941:7,17 57:25 58:1 63:4 64:15 65:3 74:23 75:6 76:2,1799:15 102:19 146:8156:2,24 157:5 165:11,6,19 189:2	death 211:10 debate 91:19 debt 77:20 debts 182:8 December 4:3 87:5 138:25 144:23 decide 145:24 212:1,2 decided 103:22 105:22	130:8 <b>depends</b> 30:19,20 54:11 59:3 116:18 118:24 129:24 139:17 165:4 178:13 <b>Depletion</b> 8:24 <b>depth</b> 8:20 11:2,9 107:9,21,23 108:1,2	34:23 35:18,22 43:8 43:16,18 46:6,9,10 46:12,13 47:15 49:1 49:7,20 50:6 58:5 67:16 76:18 95:23 96:2,8,9,15,19 140:9 <b>developments</b> 5:9,10 15:2 26:15 32:3	disconnect 77:14 84:11 discount 200:22 201:4 201:4,7,8,10,12,14 201:17,24 202:5,20 203:13,15 discounted 57:10,16 57:20 65:22 74:21 75:4,12 132:12	disposed 34:8 dispute 1:4 173:9 199:2 disputed 208:1,2,5 212:6 Disputes 1:2 disputing 208:3,7 Distance 24:19 distribution 8:20 11:2 28:9,10 30:1,16,22	Dr 3:4,5,21,22 4:1,3 1:7,9 3:15,18,21,23 4:1,3,5,9,14,19,25 5:3,4 6:20 7:20 10:21 14:8,11 15:12 15:18 23:7 26:22 31:24 32:16 40:23 45:10 47:4 50:17 54:25 55:2 57:12,20 58:5 63:2 75:7,23
decisions 51:3 211:25128:23 129:490:3106:18:22 9:5 57:2197:12,22 106:25decision-tree 19:16,18derive 8:6 64:1,13diagrams 50:23 89:22discover 18:15,16,20divide 138:2,2125:20 127:1819:23 92:16 95:1derived 6:10 66:20diameter 32:13discover 18:15,16,20divide 96:23128:11 129:1declaration 4:1872:13 74:12 75:12diameters 53:9discoverable 18:2doable 13:10 43:18143:14,16 144:1440:19 44:15,1875:22 79:19differ 162:3discovered 6:9,11document 23:8 24:5145:23 146:1,3,21,22 148:856:13 87:9 145:4derives 75:4,6difference 42:12 43:4discovered 6:9,11document 23:8 24:5145:23 146:1,3,21,22 148:8declarations 78:25describe 43:9101:15 105:441:7,17 57:25 58:199:15 102:19152:19 153:4declare 4:19 56:14describe 7:7 13:15113:18 129:1963:4 64:15 65:3132:20 138:14,22156:22,24 157:587:10 145:5,818:4,8 22:12 29:8130:4 142:1774:23 75:6 76:2,17146:8165:11,16,19 189:2	death 211:10 debate 91:19 debt 77:20 debts 182:8 December 4:3 87:5 138:25 144:23 decide 145:24 212:1,2 decided 103:22 105:22 decision 42:21 57:23	130:8 <b>depends</b> 30:19,20 54:11 59:3 116:18 118:24 129:24 139:17 165:4 178:13 <b>Depletion</b> 8:24 <b>depth</b> 8:20 11:2,9 107:9,21,23 108:1,2 108:4,6,7,9,19,21	34:23 35:18,22 43:8 43:16,18 46:6,9,10 46:12,13 47:15 49:1 49:7,20 50:6 58:5 67:16 76:18 95:23 96:2,8,9,15,19 140:9 <b>developments</b> 5:9,10 15:2 26:15 32:3 34:22 49:22	disconnect 77:14 84:11 discount 200:22 201:4 201:4,7,8,10,12,14 201:17,24 202:5,20 203:13,15 discounted 57:10,16 57:20 65:22 74:21 75:4,12 132:12 133:25 149:4 200:4	disposed 34:8 dispute 1:4 173:9 199:2 disputed 208:1,2,5 212:6 Disputes 1:2 disputing 208:3,7 Distance 24:19 distribution 8:20 11:2 28:9,10 30:1,16,22 33:22 34:13 57:24	$\begin{array}{c} \textbf{Dr} \ 3:4,5,21,22\ 4:1,3\\ 1:7,9\ 3:15,18,21,23\\ 4:1,3,5,9,14,19,25\\ 5:3,4\ 6:20\ 7:20\\ 10:21\ 14:8,11\ 15:12\\ 15:18\ 23:7\ 26:22\\ 31:24\ 32:16\ 40:23\\ 45:10\ 47:4\ 50:17\\ 54:25\ 55:2\ 57:12,20\\ 58:5\ 63:2\ 75:7,23\\ 75:24\ 76:4,18\ 86:11 \end{array}$
decision-tree 19:16,18 19:23 92:16 95:1derive 8:6 64:1,13 derived 6:10 66:20diagrams 50:23 89:22 diameter 32:13discover 18:15,16,20 19:8 114:18divide 138:2,2 divide 96:23125:20 127:18 128:11 129:1declaration 4:18 40:19 44:15,1872:13 74:12 75:12 75:22 79:19diameters 53:9 differ 162:3discoverable 18:2 20:1 43:1 76:15doable 13:10 43:18 Doctor 141:11144:17,24 145:8,16 143:14,16 144:1456:13 87:9 145:4 209:10derives 75:4,6 deriveg 65:18difference 42:12 43:4 46:1 92:7 97:14discovered 6:9,11 9:24 27:6 40:12document 23:8 24:5 25:72:7,25 81:7145:23 146:13,21,22 148:8declarations 78:25 declare 4:19 56:14 87:10 145:5,8describe 43:9 18:4,8 22:12 29:8101:15 105:4 113:18 129:1941:7,17 57:25 58:1 63:4 64:15 65:399:15 102:19 132:20 138:14,22156:22,24 157:5 165:11,16,19 189:2	death 211:10 debate 91:19 debt 77:20 debts 182:8 December 4:3 87:5 138:25 144:23 decide 145:24 212:1,2 decided 103:22 105:22 decision 42:21 57:23 104:14 105:17	130:8 <b>depends</b> 30:19,20 54:11 59:3 116:18 118:24 129:24 139:17 165:4 178:13 <b>Depletion</b> 8:24 <b>depth</b> 8:20 11:2,9 107:9,21,23 108:1,2 108:4,6,7,9,19,21 108:24 109:4,5,8	34:23 35:18,22 43:8 43:16,18 46:6,9,10 46:12,13 47:15 49:1 49:7,20 50:6 58:5 67:16 76:18 95:23 96:2,8,9,15,19 140:9 <b>developments</b> 5:9,10 15:2 26:15 32:3 34:22 49:22 <b>devoted</b> 38:12	disconnect 77:14 84:11 discount 200:22 201:4 201:4,7,8,10,12,14 201:17,24 202:5,20 203:13,15 discounted 57:10,16 57:20 65:22 74:21 75:4,12 132:12 133:25 149:4 200:4 200:9 201:2	disposed 34:8 dispute 1:4 173:9 199:2 disputed 208:1,2,5 212:6 Disputes 1:2 disputing 208:3,7 Distance 24:19 distribution 8:20 11:2 28:9,10 30:1,16,22 33:22 34:13 57:24 84:5	$\begin{array}{c} \textbf{Dr} \ 3:4,5,21,22\ 4:1,3\\ 1:7,9\ 3:15,18,21,23\\ 4:1,3,5,9,14,19,25\\ 5:3,4\ 6:20\ 7:20\\ 10:21\ 14:8,11\ 15:12\\ 15:18\ 23:7\ 26:22\\ 31:24\ 32:16\ 40:23\\ 45:10\ 47:4\ 50:17\\ 54:25\ 55:2\ 57:12,20\\ 58:5\ 63:2\ 75:7,23\\ 75:24\ 76:4,18\ 86:11\\ 86:14,23,24\ 87:1,3\\ \end{array}$
19:23 92:16 95:1 declaration 4:18 40:19 44:15,18derived 6:10 66:20 72:13 74:12 75:12 diameter 32:13diameter 32:13 diameter 32:1319:8 114:18 discoverable 18:2 20:1 43:1 76:15divided 96:23 doable 13:10 43:18128:11 129:1 143:14,16 144:1440:19 44:15,18 56:13 87:9 145:4 209:1075:22 79:19 differ 162:3diameter 32:13 difference 42:12 43:4 deriving 65:1819:8 114:18 difference 42:12 43:4 deriving 65:18dimeter 32:13 difference 42:12 43:419:8 114:18 discoverable 18:2 20:1 43:1 76:15143:14,16 144:14 144:17,24 145:8,16declarations 78:25 declare 4:19 56:14 87:10 145:5,8derives 75:4,6 described 7:7 13:15difference 42:12 43:4 101:15 105:4discovered 6:9,11 9:24 27:6 40:12 41:7,17 57:25 58:1 63:4 64:15 65:3document 23:8 24:5 132:20 138:14,22145:23 146:1,4,11 146:13,21,22 148:8declare 4:19 56:14 87:10 145:5,8described 7:7 13:15 18:4,8 22:12 29:8101:15 105:4 130:4 142:1741:7,17 57:25 58:1 74:23 75:6 76:2,1799:15 102:19 132:20 138:14,22156:22,24 157:5 165:11,16,19 189:2	death 211:10 debate 91:19 debt 77:20 debts 182:8 December 4:3 87:5 138:25 144:23 decide 145:24 212:1,2 decided 103:22 105:22 decision 42:21 57:23 104:14 105:17 106:6,7 142:12	130:8 <b>depends</b> 30:19,20 54:11 59:3 116:18 118:24 129:24 139:17 165:4 178:13 <b>Depletion</b> 8:24 <b>depth</b> 8:20 11:2,9 107:9,21,23 108:1,2 108:4,6,7,9,19,21 108:24 109:4,5,8 <b>depths</b> 11:18,20 13:2	34:23 35:18,22 43:8 43:16,18 46:6,9,10 46:12,13 47:15 49:1 49:7,20 50:6 58:5 67:16 76:18 95:23 96:2,8,9,15,19 140:9 <b>developments</b> 5:9,10 15:2 26:15 32:3 34:22 49:22 <b>devoted</b> 38:12 <b>diagram</b> 88:14,18	disconnect 77:14 84:11 discount 200:22 201:4 201:4,7,8,10,12,14 201:17,24 202:5,20 203:13,15 discounted 57:10,16 57:20 65:22 74:21 75:4,12 132:12 133:25 149:4 200:4 200:9 201:2 discounting 75:10	disposed 34:8 dispute 1:4 173:9 199:2 disputed 208:1,2,5 212:6 Disputes 1:2 disputing 208:3,7 Distance 24:19 distribution 8:20 11:2 28:9,10 30:1,16,22 33:22 34:13 57:24 84:5 distributions 8:14,17	$\begin{array}{c} \textbf{Dr} \ 3:4,5,21,22\ 4:1,3\\ 1:7,9\ 3:15,18,21,23\\ 4:1,3,5,9,14,19,25\\ 5:3,4\ 6:20\ 7:20\\ 10:21\ 14:8,11\ 15:12\\ 15:18\ 23:7\ 26:22\\ 31:24\ 32:16\ 40:23\\ 45:10\ 47:4\ 50:17\\ 54:25\ 55:2\ 57:12,20\\ 58:5\ 63:2\ 75:7,23\\ 75:24\ 76:4,18\ 86:11\\ 86:14,23,24\ 87:1,3\\ 87:6,10,15,24,25\\ \end{array}$
declaration 4:1872:13 74:12 75:12diameters 53:9discoverable 18:2doable 13:10 43:18143:14,16 144:1440:19 44:15,1875:22 79:19differ 162:320:1 43:1 76:15Doctor 141:11144:17,24 145:8,1656:13 87:9 145:4derives 75:4,6difference 42:12 43:4discovered 6:9,11document 23:8 24:5145:23 146:1,4,11209:10deriving 65:1846:1 92:7 97:149:24 27:6 40:1225:3 72:7,25 81:7146:13,21,22 148:8declarations 78:25describe 43:9101:15 105:441:7,17 57:25 58:199:15 102:19152:19 153:4declare 4:19 56:14described 7:7 13:15113:18 129:1963:4 64:15 65:3132:20 138:14,22156:22,24 157:587:10 145:5,818:4,8 22:12 29:8130:4 142:1774:23 75:6 76:2,17146:8165:11,16,19 189:2	death 211:10 debate 91:19 debt 77:20 debts 182:8 December 4:3 87:5 138:25 144:23 decide 145:24 212:1,2 decided 103:22 105:22 decision 42:21 57:23 104:14 105:17 106:6,7 142:12 decisions 51:3 211:25	130:8 depends 30:19,20 54:11 59:3 116:18 118:24 129:24 139:17 165:4 178:13 Depletion 8:24 depth 8:20 11:2,9 107:9,21,23 108:1,2 108:4,6,79,19,21 108:24 109:4,5,8 depths 11:18,20 13:2 128:23 129:4	34:23 35:18,22 43:8 43:16,18 46:6,9,10 46:12,13 47:15 49:1 49:7,20 50:6 58:5 67:16 76:18 95:23 96:2,8,9,15,19 140:9 <b>developments</b> 5:9,10 15:2 26:15 32:3 34:22 49:22 <b>devoted</b> 38:12 <b>diagram</b> 88:14,18 90:3	disconnect 77:14 84:11 discount 200:22 201:4 201:4,7,8,10,12,14 201:17,24 202:5,20 203:13,15 discounted 57:10,16 57:20 65:22 74:21 75:4,12 132:12 133:25 149:4 200:4 200:9 201:2 discounting 75:10 106:1	disposed 34:8 dispute 1:4 173:9 199:2 disputed 208:1,2,5 212:6 Disputes 1:2 disputing 208:3,7 Distance 24:19 distribution 8:20 11:2 28:9,10 30:1,16,22 33:22 34:13 57:24 84:5 distributions 8:14,17 8:22 9:5 57:21	$\begin{array}{c} \textbf{Dr} \ 3:4,5,21,22\ 4:1,3\\ 1:7,9\ 3:15,18,21,23\\ 4:1,3,5,9,14,19,25\\ 5:3,4\ 6:20\ 7:20\\ 10:21\ 14:8,11\ 15:12\\ 15:18\ 23:7\ 26:22\\ 31:24\ 32:16\ 40:23\\ 45:10\ 47:4\ 50:17\\ 54:25\ 55:2\ 57:12,20\\ 58:5\ 63:2\ 75:7,23\\ 75:24\ 76:4,18\ 86:11\\ 86:14,23,24\ 87:1,3\\ 87:6,10,15,24,25\\ 97:12,22\ 106:25\\ \end{array}$
40:19 44:15,1875:22 79:19differ 162:320:1 43:1 76:15Doctor 141:11144:17,24 145:8,1656:13 87:9 145:4derives 75:4,6difference 42:12 43:4discovered 6:9,11document 23:8 24:5145:23 146:1,4,11209:10deriving 65:1846:1 92:7 97:149:24 27:6 40:1225:3 72:7,25 81:7146:13,21,22 148:8declarations 78:25describe 43:9101:15 105:441:7,17 57:25 58:199:15 102:19152:19 153:4declare 4:19 56:14described 7:7 13:15113:18 129:1963:4 64:15 65:3132:20 138:14,22156:22,24 157:587:10 145:5,818:4,8 22:12 29:8130:4 142:1774:23 75:6 76:2,17146:8165:11,16,19 189:2	death 211:10 debate 91:19 debt 77:20 debts 182:8 December 4:3 87:5 138:25 144:23 decide 145:24 212:1,2 decided 103:22 105:22 decision 42:21 57:23 104:14 105:17 106:6,7 142:12 decisions 51:3 211:25 decision-tree 19:16,18	130:8 depends 30:19,20 54:11 59:3 116:18 118:24 129:24 139:17 165:4 178:13 Depletion 8:24 depth 8:20 11:2,9 107:9,21,23 108:1,2 108:4,6,7,9,19,21 108:24 109:4,5,8 depths 11:18,20 13:2 128:23 129:4 derive 8:6 64:1,13	34:23 35:18,22 43:8 43:16,18 46:6,9,10 46:12,13 47:15 49:1 49:7,20 50:6 58:5 67:16 76:18 95:23 96:2,8,9,15,19 140:9 <b>developments</b> 5:9,10 15:2 26:15 32:3 34:22 49:22 <b>devoted</b> 38:12 <b>diagram</b> 88:14,18 90:3 <b>diagrams</b> 50:23 89:22	disconnect 77:14 84:11 discount 200:22 201:4 201:4,7,8,10,12,14 201:17,24 202:5,20 203:13,15 discounted 57:10,16 57:20 65:22 74:21 75:4,12 132:12 133:25 149:4 200:4 200:9 201:2 discounting 75:10 106:1 discover 18:15,16,20	disposed 34:8 dispute 1:4 173:9 199:2 disputed 208:1,2,5 212:6 Disputes 1:2 disputing 208:3,7 Distance 24:19 distribution 8:20 11:2 28:9,10 30:1,16,22 33:22 34:13 57:24 84:5 distributions 8:14,17 8:22 9:5 57:21 divide 138:2,2	$\begin{array}{c} \textbf{Dr} \ 3:4,5,21,22\ 4:1,3\\ 1:7,9\ 3:15,18,21,23\\ 4:1,3,5,9,14,19,25\\ 5:3,4\ 6:20\ 7:20\\ 10:21\ 14:8,11\ 15:12\\ 15:18\ 23:7\ 26:22\\ 31:24\ 32:16\ 40:23\\ 45:10\ 47:4\ 50:17\\ 54:25\ 55:2\ 57:12,20\\ 58:5\ 63:2\ 75:7,23\\ 75:24\ 76:4,18\ 86:11\\ 86:14,23,24\ 87:1,3\\ 87:6,10,15,24,25\\ 97:12,22\ 106:25\\ 125:20\ 127:18\\ \end{array}$
56:13 87:9 145:4 209:10derives 75:4,6 deriving 65:18difference 42:12 43:4 46:1 92:7 97:14discovered 6:9,11 9:24 27:6 40:12document 23:8 24:5 25:3 72:7,25 81:7145:23 146:1,4,11 146:13,21,22 148:8declarations 78:25 declare 4:19 56:14 87:10 145:5,8describe 43:9 18:4,8 22:12 29:8101:15 105:4 113:18 129:19 130:4 142:17discovered 6:9,11 9:24 27:6 40:12 41:7,17 57:25 58:1 99:15 102:19 132:20 138:14,22145:23 146:1,4,11 145:3,21,22 148:856:13 declare 4:19 56:14 87:10 145:5,8describe 43:9 18:4,8 22:12 29:8101:15 105:4 130:4 142:1741:7,17 57:25 58:1 63:4 64:15 65:3 74:23 75:6 76:2,1799:15 102:19 132:20 138:14,22156:22,24 157:5 165:11,16,19 189:2	death 211:10 debate 91:19 debt 77:20 debts 182:8 December 4:3 87:5 138:25 144:23 decide 145:24 212:1,2 decide 103:22 105:22 decision 42:21 57:23 104:14 105:17 106:6,7 142:12 decisions 51:3 211:25 decision-tree 19:16,18 19:23 92:16 95:1	130:8 depends 30:19,20 54:11 59:3 116:18 118:24 129:24 139:17 165:4 178:13 Depletion 8:24 depth 8:20 11:2,9 107:9,21,23 108:1,2 108:24,67,9,19,21 108:24 109:4,5,8 depths 11:18,20 13:2 128:23 129:4 derive 8:6 64:1,13 derived 6:10 66:20	34:23 35:18,22 43:8 43:16,18 46:6,9,10 46:12,13 47:15 49:1 49:7,20 50:6 58:5 67:16 76:18 95:23 96:2,8,9,15,19 140:9 <b>developments</b> 5:9,10 15:2 26:15 32:3 34:22 49:22 <b>devoted</b> 38:12 <b>diagram</b> 88:14,18 90:3 <b>diagrams</b> 50:23 89:22 <b>diameter</b> 32:13	disconnect 77:14 84:11 discount 200:22 201:4 201:4,7,8,10,12,14 201:17,24 202:5,20 203:13,15 discounted 57:10,16 57:20 65:22 74:21 75:4,12 132:12 133:25 149:4 200:4 200:9 201:2 discounting 75:10 106:1 discover 18:15,16,20 19:8 114:18	disposed 34:8 dispute 1:4 173:9 199:2 disputed 208:1,2,5 212:6 Disputes 1:2 disputing 208:3,7 Distance 24:19 distribution 8:20 11:2 28:9,10 30:1,16,22 33:22 34:13 57:24 84:5 distributions 8:14,17 8:22 9:5 57:21 divide 138:2,2 divided 96:23	$\begin{array}{c} \textbf{Dr} \ 3:4,5,21,22\ 4:1,3\\ 1:7,9\ 3:15,18,21,23\\ 4:1,3,5,9,14,19,25\\ 5:3,4\ 6:20\ 7:20\\ 10:21\ 14:8,11\ 15:12\\ 15:18\ 23:7\ 26:22\\ 31:24\ 32:16\ 40:23\\ 45:10\ 47:4\ 50:17\\ 54:25\ 55:2\ 57:12,20\\ 58:5\ 63:2\ 75:7,23\\ 75:24\ 76:4,18\ 86:11\\ 86:14,23,24\ 87:1,3\\ 87:6,10,15,24,25\\ 97:12,22\ 106:25\\ 125:20\ 127:18\\ 128:11\ 129:1\\ \end{array}$
209:10deriving 65:1846:1 92:7 97:149:24 27:6 40:1225:3 72:7,25 81:7146:13,21,22 148:8declarations 78:25describe 43:9101:15 105:441:7,17 57:25 58:199:15 102:19152:19 153:4declare 4:19 56:14described 7:7 13:15113:18 129:1963:4 64:15 65:3132:20 138:14,22156:22,24 157:587:10 145:5,818:4,8 22:12 29:8130:4 142:1774:23 75:6 76:2,17146:8165:11,16,19 189:2	death 211:10 debate 91:19 debt 77:20 debts 182:8 December 4:3 87:5 138:25 144:23 decide 145:24 212:1,2 decide 103:22 105:22 decision 42:21 57:23 104:14 105:17 106:6,7 142:12 decisions 51:3 211:25 decision-tree 19:16,18 19:23 92:16 95:1 declaration 4:18	130:8 depends 30:19,20 54:11 59:3 116:18 118:24 129:24 139:17 165:4 178:13 Depletion 8:24 depth 8:20 11:2,9 107:9,21,23 108:1,2 108:4,6,7,9,19,21 108:24 109:4,5,8 depths 11:18,20 13:2 128:23 129:4 derive 8:6 64:1,13 derived 6:10 66:20 72:13 74:12 75:12	34:23 35:18,22 43:8 43:16,18 46:6,9,10 46:12,13 47:15 49:1 49:7,20 50:6 58:5 67:16 76:18 95:23 96:2,8,9,15,19 140:9 <b>developments</b> 5:9,10 15:2 26:15 32:3 34:22 49:22 <b>devoted</b> 38:12 <b>diagram</b> 88:14,18 90:3 <b>diagrams</b> 50:23 89:22 <b>diameter</b> 32:13 <b>diameters</b> 53:9	disconnect 77:14 84:11 discount 200:22 201:4 201:4,7,8,10,12,14 201:17,24 202:5,20 203:13,15 discounted 57:10,16 57:20 65:22 74:21 75:4,12 132:12 133:25 149:4 200:4 200:9 201:2 discounting 75:10 106:1 discover 18:15,16,20 19:8 114:18 discoverable 18:2	disposed 34:8 dispute 1:4 173:9 199:2 disputed 208:1,2,5 212:6 Disputes 1:2 disputing 208:3,7 Distance 24:19 distribution 8:20 11:2 28:9,10 30:1,16,22 33:22 34:13 57:24 84:5 distributions 8:14,17 8:22 9:5 57:21 divide 138:2,2 divided 96:23 doable 13:10 43:18	$\begin{array}{c} \textbf{Dr} \ 3:4,5,21,22\ 4:1,3\\ 1:7,9\ 3:15,18,21,23\\ 4:1,3,5,9,14,19,25\\ 5:3,4\ 6:20\ 7:20\\ 10:21\ 14:8,11\ 15:12\\ 15:18\ 23:7\ 26:22\\ 31:24\ 32:16\ 40:23\\ 45:10\ 47:4\ 50:17\\ 54:25\ 55:2\ 57:12,20\\ 58:5\ 63:2\ 75:7,23\\ 75:24\ 76:4,18\ 86:11\\ 86:14,23,24\ 87:1,3\\ 87:6,10,15,24,25\\ 97:12,22\ 106:25\\ 125:20\ 127:18\\ 128:11\ 129:1\\ 143:14,16\ 144:14\\ \end{array}$
declarations78:25describe43:9101:15105:441:7,1757:2558:199:15102:19152:19153:4declare4:1956:14described7:713:15113:18129:1963:464:1565:3132:20138:14,22156:22,24157:587:10145:5,818:4,822:1229:8130:4142:1774:2375:676:2,17146:8165:11,16,19189:2	death 211:10 debate 91:19 debt 77:20 debts 182:8 December 4:3 87:5 138:25 144:23 decide 145:24 212:1,2 decided 103:22 105:22 decision 42:21 57:23 104:14 105:17 106:6,7 142:12 decisions 51:3 211:25 decision-tree 19:16,18 19:23 92:16 95:1 declaration 4:18 40:19 44:15,18	130:8 depends 30:19,20 54:11 59:3 116:18 118:24 129:24 139:17 165:4 178:13 Depletion 8:24 depth 8:20 11:2,9 107:9,21,23 108:1,2 108:4,6,7,9,19,21 108:24 109:4,5,8 depths 11:18,20 13:2 128:23 129:4 derive 8:6 64:1,13 derived 6:10 66:20 72:13 74:12 75:12 75:22 79:19	34:23 35:18,22 43:8 43:16,18 46:6,9,10 46:12,13 47:15 49:1 49:7,20 50:6 58:5 67:16 76:18 95:23 96:2,8,9,15,19 140:9 <b>developments</b> 5:9,10 15:2 26:15 32:3 34:22 49:22 <b>devoted</b> 38:12 <b>diagram</b> 88:14,18 90:3 <b>diagrams</b> 50:23 89:22 <b>diameter</b> 32:13 <b>diameters</b> 53:9 <b>differ</b> 162:3	disconnect 77:14 84:11 discount 200:22 201:4 201:4,7,8,10,12,14 201:17,24 202:5,20 203:13,15 discounted 57:10,16 57:20 65:22 74:21 75:4,12 132:12 133:25 149:4 200:4 200:9 201:2 discounting 75:10 106:1 discover 18:15,16,20 19:8 114:18 discoverable 18:2 20:1 43:1 76:15	disposed 34:8 dispute 1:4 173:9 199:2 disputed 208:1,2,5 212:6 Disputes 1:2 disputing 208:3,7 Distance 24:19 distribution 8:20 11:2 28:9,10 30:1,16,22 33:22 34:13 57:24 84:5 distributions 8:14,17 8:22 9:5 57:21 divide 138:2,2 divided 96:23 doable 13:10 43:18 Doctor 141:11	$\begin{array}{c} \textbf{Dr} \ 3:4,5,21,22\ 4:1,3\\ 1:7,9\ 3:15,18,21,23\\ 4:1,3,5,9,14,19,25\\ 5:3,4\ 6:20\ 7:20\\ 10:21\ 14:8,11\ 15:12\\ 15:18\ 23:7\ 26:22\\ 31:24\ 32:16\ 40:23\\ 45:10\ 47:4\ 50:17\\ 54:25\ 55:2\ 57:12,20\\ 58:5\ 63:2\ 75:7,23\\ 75:24\ 76:4,18\ 86:11\\ 86:14,23,24\ 87:1,3\\ 87:6,10,15,24,25\\ 97:12,22\ 106:25\\ 125:20\ 127:18\\ 128:11\ 129:1\\ 143:14,16\ 144:14\\ 144:17,24\ 145:8,16\end{array}$
declare 4:19 56:14 87:10 145:5,8described 7:7 13:15 18:4,8 22:12 29:8113:18 129:19 130:4 142:1763:4 64:15 65:3 74:23 75:6 76:2,17132:20 138:14,22 146:8156:22,24 157:5 165:11,16,19 189:2	death 211:10 debate 91:19 debt 77:20 debts 182:8 December 4:3 87:5 138:25 144:23 decide 145:24 212:1,2 decided 103:22 105:22 decision 42:21 57:23 104:14 105:17 106:6,7 142:12 decisions 51:3 211:25 decision-tree 19:16,18 19:23 92:16 95:1 declaration 4:18 40:19 44:15,18 56:13 87:9 145:4	130:8 depends 30:19,20 54:11 59:3 116:18 118:24 129:24 139:17 165:4 178:13 Depletion 8:24 depth 8:20 11:2,9 107:9,21,23 108:1,2 108:4,6,7,9,19,21 108:24 109:4,5,8 depths 11:18,20 13:2 128:23 129:4 derive 8:6 64:1,13 derived 6:10 66:20 72:13 74:12 75:12 75:22 79:19 derives 75:4,6	34:23 35:18,22 43:8 43:16,18 46:6,9,10 46:12,13 47:15 49:1 49:7,20 50:6 58:5 67:16 76:18 95:23 96:2,8,9,15,19 140:9 <b>developments</b> 5:9,10 15:2 26:15 32:3 34:22 49:22 <b>devoted</b> 38:12 <b>diagram</b> 88:14,18 90:3 <b>diagram</b> 50:23 89:22 <b>diameter</b> 32:13 <b>diameters</b> 53:9 <b>differ</b> 162:3 <b>difference</b> 42:12 43:4	disconnect 77:14 84:11 discount 200:22 201:4 201:4,7,8,10,12,14 201:17,24 202:5,20 203:13,15 discounted 57:10,16 57:20 65:22 74:21 75:4,12 132:12 133:25 149:4 200:4 200:9 201:2 discounting 75:10 106:1 discover 18:15,16,20 19:8 114:18 discoverable 18:2 20:1 43:1 76:15 discovered 6:9,11	disposed 34:8 dispute 1:4 173:9 199:2 disputed 208:1,2,5 212:6 Disputes 1:2 disputing 208:3,7 Distance 24:19 distribution 8:20 11:2 28:9,10 30:1,16,22 33:22 34:13 57:24 84:5 distributions 8:14,17 8:22 9:5 57:21 divide 138:2,2 divided 96:23 doable 13:10 43:18 Doctor 141:11 document 23:8 24:5	$\begin{array}{c} \textbf{Dr} \ 3:4,5,21,22\ 4:1,3\\ 1:7,9\ 3:15,18,21,23\\ 4:1,3,5,9,14,19,25\\ 5:3,4\ 6:20\ 7:20\\ 10:21\ 14:8,11\ 15:12\\ 15:18\ 23:7\ 26:22\\ 31:24\ 32:16\ 40:23\\ 45:10\ 47:4\ 50:17\\ 54:25\ 55:2\ 57:12,20\\ 58:5\ 63:2\ 75:7,23\\ 75:24\ 76:4,18\ 86:11\\ 86:14,23,24\ 87:1,3\\ 87:6,10,15,24,25\\ 97:12,22\ 106:25\\ 125:20\ 127:18\\ 128:11\ 129:1\\ 143:14,16\ 144:14\\ 144:17,24\ 145:8,16\\ 145:23\ 146:1,4,11\\ \end{array}$
87:10 145:5,8 18:4,8 22:12 29:8 130:4 142:17 74:23 75:6 76:2,17 146:8 165:11,16,19 189:2	death 211:10 debate 91:19 debt 77:20 debts 182:8 December 4:3 87:5 138:25 144:23 decide 145:24 212:1,2 decided 103:22 105:22 decision 42:21 57:23 104:14 105:17 106:6,7 142:12 decisions 51:3 211:25 decision-tree 19:16,18 19:23 92:16 95:1 declaration 4:18 40:19 44:15,18 56:13 87:9 145:4 209:10	130:8 depends 30:19,20 54:11 59:3 116:18 118:24 129:24 139:17 165:4 178:13 Depletion 8:24 depth 8:20 11:2,9 107:9,21,23 108:1,2 108:4,6,7,9,19,21 108:24 109:4,5,8 depths 11:18,20 13:2 128:23 129:4 derive 8:6 64:1,13 derived 6:10 66:20 72:13 74:12 75:12 75:22 79:19 derives 75:4,6 deriving 65:18	34:23 35:18,22 43:8 43:16,18 46:6,9,10 46:12,13 47:15 49:1 49:7,20 50:6 58:5 67:16 76:18 95:23 96:2,8,9,15,19 140:9 <b>developments</b> 5:9,10 15:2 26:15 32:3 34:22 49:22 <b>devoted</b> 38:12 <b>diagram</b> 88:14,18 90:3 <b>diagrams</b> 50:23 89:22 <b>diameters</b> 53:9 <b>differ 162</b> :3 <b>difference</b> 42:12 43:4 46:1 92:7 97:14	disconnect 77:14 84:11 discount 200:22 201:4 201:4,7,8,10,12,14 201:17,24 202:5,20 203:13,15 discounted 57:10,16 57:20 65:22 74:21 75:4,12 132:12 133:25 149:4 200:4 200:9 201:2 discounting 75:10 106:1 discover 18:15,16,20 19:8 114:18 discoverable 18:2 20:1 43:1 76:15 discovered 6:9,11 9:24 27:6 40:12	disposed 34:8 dispute 1:4 173:9 199:2 disputed 208:1,2,5 212:6 Disputes 1:2 disputing 208:3,7 Distance 24:19 distribution 8:20 11:2 28:9,10 30:1,16,22 33:22 34:13 57:24 84:5 distributions 8:14,17 8:22 9:5 57:21 divide 138:2,2 divided 96:23 doable 13:10 43:18 Doctor 141:11 document 23:8 24:5 25:3 72:7,25 81:7	$\begin{array}{l} \textbf{Dr} \ 3:4,5,21,22\ 4:1,3\\ 1:7,9\ 3:15,18,21,23\\ 4:1,3,5,9,14,19,25\\ 5:3,4\ 6:20\ 7:20\\ 10:21\ 14:8,11\ 15:12\\ 15:18\ 23:7\ 26:22\\ 31:24\ 32:16\ 40:23\\ 45:10\ 47:4\ 50:17\\ 54:25\ 55:2\ 57:12,20\\ 58:5\ 63:2\ 75:7,23\\ 75:24\ 76:4,18\ 86:11\\ 86:14,23,24\ 87:1,3\\ 87:6,10,15,24,25\\ 97:12,22\ 106:25\\ 125:20\ 127:18\\ 128:11\ 129:1\\ 143:14,16\ 144:14\\ 144:17,24\ 145:8,16\\ 145:23\ 146:14,11\\ 146:13,21,22\ 148:8\end{array}$
	death 211:10 debate 91:19 debt 77:20 debts 182:8 December 4:3 87:5 138:25 144:23 decide 145:24 212:1,2 decided 103:22 105:22 decision 42:21 57:23 104:14 105:17 106:6,7 142:12 decisions 51:3 211:25 decision-tree 19:16,18 19:23 92:16 95:1 declaration 4:18 40:19 44:15,18 56:13 87:9 145:4 209:10 declarations 78:25	130:8 depends 30:19,20 54:11 59:3 116:18 118:24 129:24 139:17 165:4 178:13 Depletion 8:24 depth 8:20 11:2,9 107:9,21,23 108:1,2 108:4,6,7,9,19,21 108:24 109:4,5,8 depths 11:18,20 13:2 128:23 129:4 derive 8:6 64:1,13 derive 8:6 64:1,13 derive 8:6 64:1,13 derive 8:6 64:1,13 derive 75:4,6 deriving 65:18 describe 43:9	34:23 35:18,22 43:8 43:16,18 46:6,9,10 46:12,13 47:15 49:1 49:7,20 50:6 58:5 67:16 76:18 95:23 96:2,8,9,15,19 140:9 <b>developments</b> 5:9,10 15:2 26:15 32:3 34:22 49:22 <b>devoted</b> 38:12 <b>diagram</b> 88:14,18 90:3 <b>diagrams</b> 50:23 89:22 <b>diameters</b> 53:9 <b>difference</b> 42:12 43:4 46:1 92:7 97:14 101:15 105:4	disconnect 77:14 84:11 discount 200:22 201:4 201:4,7,8,10,12,14 201:17,24 202:5,20 203:13,15 discounted 57:10,16 57:20 65:22 74:21 75:4,12 132:12 133:25 149:4 200:4 200:9 201:2 discounting 75:10 106:1 discover 18:15,16,20 19:8 114:18 discoverable 18:2 20:1 43:1 76:15 discovered 6:9,11 9:24 27:6 40:12 41:7,17 57:25 58:1	disposed 34:8 dispute 1:4 173:9 199:2 disputed 208:1,2,5 212:6 Disputes 1:2 disputing 208:3,7 Distance 24:19 distribution 8:20 11:2 28:9,10 30:1,16,22 33:22 34:13 57:24 84:5 distributions 8:14,17 8:22 9:5 57:21 divide 138:2,2 divide 138:2,2 divide 96:23 doable 13:10 43:18 Doctor 141:11 document 23:8 24:5 25:3 72:7,25 81:7 99:15 102:19	$\begin{array}{c} \textbf{Dr} \ 3:4,5,21,22\ 4:1,3\\ 1:7,9\ 3:15,18,21,23\\ 4:1,3,5,9,14,19,25\\ 5:3,4\ 6:20\ 7:20\\ 10:21\ 14:8,11\ 15:12\\ 15:18\ 23:7\ 26:22\\ 31:24\ 32:16\ 40:23\\ 45:10\ 47:4\ 50:17\\ 54:25\ 55:2\ 57:12,20\\ 58:5\ 63:2\ 75:7,23\\ 75:24\ 76:4,18\ 86:11\\ 86:14,23,24\ 87:1,3\\ 87:6,10,15,24,25\\ 97:12,22\ 106:25\\ 125:20\ 127:18\\ 128:11\ 129:1\\ 143:14,16\ 144:14\\ 144:17,24\ 145:8,16\\ 145:23\ 146:14,11\\ 146:13,21,22\ 148:8\\ 152:19\ 153:4\end{array}$
<b>dectared</b> 05:2 50:23 54:7,11,15 187:24 84:20 114:16 <b>documentation</b> 128:8 192:11,13 193:4,7	death 211:10 debate 91:19 debt 77:20 debts 182:8 December 4:3 87:5 138:25 144:23 decide 145:24 212:1,2 decided 103:22 105:22 decision 42:21 57:23 104:14 105:17 106:6,7 142:12 decisions 51:3 211:25 decision-tree 19:16,18 19:23 92:16 95:1 declaration 4:18 40:19 44:15,18 56:13 87:9 145:4 209:10 declarations 78:25 declare 4:19 56:14	130:8 depends 30:19,20 54:11 59:3 116:18 118:24 129:24 139:17 165:4 178:13 Depletion 8:24 depth 8:20 11:2,9 107:9,21,23 108:1,2 108:4,6,7,9,19,21 108:24 109:4,5,8 depths 11:18,20 13:2 128:23 129:4 derive 8:6 64:1,13 derived 6:10 66:20 72:13 74:12 75:12 75:22 79:19 derives 75:4,6 deriving 65:18 describe 43:9 described 7:7 13:15	34:23 35:18,22 43:8 43:16,18 46:6,9,10 46:12,13 47:15 49:1 49:7,20 50:6 58:5 67:16 76:18 95:23 96:2,8,9,15,19 140:9 <b>developments</b> 5:9,10 15:2 26:15 32:3 34:22 49:22 <b>devoted</b> 38:12 <b>diagram</b> 88:14,18 90:3 <b>diagrams</b> 50:23 89:22 <b>diameters</b> 53:9 <b>difference</b> 42:12 43:4 46:1 92:7 97:14 101:15 105:4 113:18 129:19	disconnect 77:14 84:11 discount 200:22 201:4 201:4,7,8,10,12,14 201:17,24 202:5,20 203:13,15 discounted 57:10,16 57:20 65:22 74:21 75:4,12 132:12 133:25 149:4 200:4 200:9 201:2 discounting 75:10 106:1 discover 18:15,16,20 19:8 114:18 discoverable 18:2 20:1 43:1 76:15 discovered 6:9,11 9:24 27:6 40:12 41:7,17 57:25 58:1 63:4 64:15 65:3	disposed 34:8 dispute 1:4 173:9 199:2 disputed 208:1,2,5 212:6 Disputes 1:2 disputing 208:3,7 Distance 24:19 distribution 8:20 11:2 28:9,10 30:1,16,22 33:22 34:13 57:24 84:5 distributions 8:14,17 8:22 9:5 57:21 divide 138:2,2 divide 96:23 doable 13:10 43:18 Doctor 141:11 document 23:8 24:5 25:3 72:7,25 81:7 99:15 102:19 132:20 138:14,22	$\begin{array}{l} \textbf{Dr} \ 3:4,5,21,22\ 4:1,3\\ 1:7,9\ 3:15,18,21,23\\ 4:1,3,5,9,14,19,25\\ 5:3,4\ 6:20\ 7:20\\ 10:21\ 14:8,11\ 15:12\\ 15:18\ 23:7\ 26:22\\ 31:24\ 32:16\ 40:23\\ 45:10\ 47:4\ 50:17\\ 54:25\ 55:2\ 57:12,20\\ 58:5\ 63:2\ 75:7,23\\ 75:24\ 76:4,18\ 86:11\\ 86:14,23,24\ 87:1,3\\ 87:6,10,15,24,25\\ 97:12,22\ 106:25\\ 125:20\ 127:18\\ 128:11\ 129:1\\ 143:14,16\ 144:14\\ 144:17,24\ 145:8,16\\ 145:23\ 146:1,4,11\\ 146:13,21,22\ 148:8\\ 152:19\ 153:4\\ 156:22,24\ 157:5\\ \end{array}$
	death 211:10 debate 91:19 debt 77:20 debts 182:8 December 4:3 87:5 138:25 144:23 decide 145:24 212:1,2 decide 145:24 212:1,2 decision 42:21 57:23 104:14 105:17 106:6,7 142:12 decisions 51:3 211:25 decision-tree 19:16,18 19:23 92:16 95:1 declaration 4:18 40:19 44:15,18 56:13 87:9 145:4 209:10 declarations 78:25 declarations 78:25 declare 4:19 56:14 87:10 145:5,8	130:8 depends 30:19,20 54:11 59:3 116:18 118:24 129:24 139:17 165:4 178:13 Depletion 8:24 depth 8:20 11:2,9 107:9,21,23 108:1,2 108:4,6,7,9,19,21 108:24 109:4,5,8 depths 11:18,20 13:2 128:23 129:4 derive 8:6 64:1,13 derived 6:10 66:20 72:13 74:12 75:12 75:22 79:19 derives 75:4,6 deriving 65:18 describe 43:9 described 7:7 13:15 18:4,8 22:12 29:8	34:23 35:18,22 43:8 43:16,18 46:6,9,10 46:12,13 47:15 49:1 49:7,20 50:6 58:5 67:16 76:18 95:23 96:2,8,9,15,19 140:9 <b>developments</b> 5:9,10 15:2 26:15 32:3 34:22 49:22 <b>devoted</b> 38:12 <b>diagram</b> 88:14,18 90:3 <b>diagrams</b> 50:23 89:22 <b>diameters</b> 53:9 <b>difference</b> 42:12 43:4 46:1 92:7 97:14 101:15 105:4 113:18 129:19 130:4 142:17	disconnect 77:14 84:11 discount 200:22 201:4 201:4,7,8,10,12,14 201:17,24 202:5,20 203:13,15 discounted 57:10,16 57:20 65:22 74:21 75:4,12 132:12 133:25 149:4 200:4 200:9 201:2 discounting 75:10 106:1 discover 18:15,16,20 19:8 114:18 discoverable 18:2 20:1 43:1 76:15 discovered 6:9,11 9:24 27:6 40:12 41:7,17 57:25 58:1 63:4 64:15 65:3 74:23 75:6 76:2,17	disposed 34:8 dispute 1:4 173:9 199:2 disputed 208:1,2,5 212:6 Disputes 1:2 disputing 208:3,7 Distance 24:19 distribution 8:20 11:2 28:9,10 30:1,16,22 33:22 34:13 57:24 84:5 distributions 8:14,17 8:22 9:5 57:21 divide 138:2,2 divided 96:23 doable 13:10 43:18 Doctor 141:11 document 23:8 24:5 25:3 72:7,25 81:7 99:15 102:19 132:20 138:14,22 146:8	$\begin{array}{l} \textbf{Dr} \ 3:4,5,21,22\ 4:1,3\\ 1:7,9\ 3:15,18,21,23\\ 4:1,3,5,9,14,19,25\\ 5:3,4\ 6:20\ 7:20\\ 10:21\ 14:8,11\ 15:12\\ 15:18\ 23:7\ 26:22\\ 31:24\ 32:16\ 40:23\\ 45:10\ 47:4\ 50:17\\ 54:25\ 55:2\ 57:12,20\\ 58:5\ 63:2\ 75:7,23\\ 75:24\ 76:4,18\ 86:11\\ 86:14,23,24\ 87:1,3\\ 87:6,10,15,24,25\\ 97:12,22\ 106:25\\ 125:20\ 127:18\\ 128:11\ 129:1\\ 143:14,16\ 144:14\\ 144:17,24\ 145:8,16\\ 145:23\ 146:14,11\\ 146:13,21,22\ 148:8\\ 152:19\ 153:4\\ 156:22,24\ 157:5\\ 165:11,16,19\ 189:2\end{array}$

Anne-Marie Stallard for Trevor McGowan As amended by the Parties

# Discovery Global LLC -v- Slovak Republic ICSID Case No. ARB/21/51

Tuesday, 6 February 2024

194:16 200:8	101:2 130:2	Emma 1:25	63:10,22 84:24	ever-decreasing 53:9	189:20
208:21	during 1:19 91:17	emphasis 181:12	187:3 201:23 202:1	evidence 26:13 42:16	exhibited 48:2
draft 25:14 138:15,22	180:11	185:19,23	202:8	44:11 46:8,10,20,23	exhibits 9:13 166:13
drafts 48:3	duty 4:16 56:11 145:2	enable 140:19	erroneously 96:23	47:6,10,11 48:9	196:4
dramatic 97:14 167:2	-	enabled 60:22	error 64:25	141:11,20 148:22	exist 10:8 49:11
draw 109:17 110:5	E	encompasses 49:2	essence 163:5	154:5,12 156:3,4	110:22 111:18,23
drawing 108:17		end 20:17 21:17 32:5	essentially 62:25 65:8	166:6 169:3,23	112:2 116:6 120:18
drill 18:3,20 19:10	each 6:13 7:7,22 8:19	32:13 37:7 58:13	73:9 80:13 113:7	171:14 172:13,17	122:13 126:24
<i>'</i>	11:10 18:17,18		Essex 2:3		
20:1 21:9 36:15	19:19,20,21 22:6	65:21 95:7 97:9		172:17,20,24,24	existed 82:15 114:1
38:20 52:16,21 53:1	37:20 67:21 88:16	100:11 120:16,17	establish 57:24	173:16 184:24	existence 41:18 182:4
53:1,5,7,7,8,9,10	88:20 93:6 94:13,20	129:9 138:24 142:4	established 62:4,16	186:6 188:9 189:15	existing 32:9 113:14
54:15 78:20 91:16	95:7,22 116:5 135:9	163:4 167:3 170:24	88:2	203:22 204:2,14	119:21 120:25
94:20,23 96:6 103:9	135:25 136:24	178:25 182:19	estimate 12:13 18:14	205:21 210:17,23	exists 81:4 121:7,14
107:7 111:5 127:5	137:4 150:25 165:9	183:7 186:15 199:4	19:19,25 42:23,25	211:9 213:2,6	expand 57:16 202:2
132:2 140:15,20	195:12 214:11,12	205:9 208:19	50:18,25 72:13	evident 93:21	expect 3:10 77:24
141:19	214:23 215:15	ends 86:7	191:3	evolving 62:5	122:21 205:21
drilled 10:23 12:7,9	earlier 27:17 31:1	energy 5:13,13 13:24	estimated 18:2 19:23	<b>EWAN</b> 2:14	206:8 210:12
12:15 13:4,11 21:24		51:21 60:3 150:18	32:17 119:18 129:3	exact 193:13	expected 6:25 48:9
27:14 37:7 42:21,24	32:2 33:19 51:19	150:19 151:7 152:4	129:20 150:23	exactly 1:4 21:2 31:18	119:20 150:24
90:19 91:7 96:15	67:5 68:10 96:5	161:9,11 194:19	estimates 59:10 99:17	36:2 53:23 76:7,16	expenditures 153:25
	124:16 129:1				
113:9 114:15,17	141:20 197:10	195:16	116:6 118:23	86:12 118:21 184:1	208:10
117:12 120:15	199:13 203:24	Energy's 150:23 151:5	estimating 123:2	202:11 212:5	experience 5:8 13:4
125:14 126:12	early 1:24 55:3 91:9	engine 29:15	estimation 152:17	examination 3:13 4:11	15:3 36:23 38:18
127:20	166:19 167:7	engineer 5:7 52:9	estimations 17:17	50:16 54:24 55:21	39:10 73:11 98:25
drilling 9:25 12:15	easier 35:17 38:24	engineering 6:14	et 6:17 24:23 71:15	86:8 143:15 207:6	expert 4:11,15,15,18
13:8,9 14:16 18:15	198:25	57:13	91:11	208:20	15:19 16:21 17:3,8
18:19 19:7,9 20:17	easiest 116:21	engineers 5:16 152:22	Europe 5:15 47:17	examine 9:20 13:2	23:15 31:6,21,24
20:21 21:9 23:2,5	Eastern 63:1 85:8	engines 51:24,25	49:12,13 63:1 85:9	153:19	41:24 42:8 45:10,13
23:10 36:8,17 37:15	159:23	enough 33:2 103:4	159:23	examined 154:2	45:24 46:17 48:14
37:23 38:9,12,18	easy 177:11	104:10 111:20	European 13:13,19	examines 175:16	56:4,6,10,12 57:7
41:17 42:23 48:18		115:2 120:23	15:2	examining 201:7	58:12,12,20 66:11
52:10,11,12,13,19	economic 47:9 48:13	176:20	euros 61:5	example 7:19,20,24	67:3 68:14,17 70:16
	147:11 155:22		EV 151:16,19 152:12	-	
53:3 54:9 83:25	173:6	ensure 22:11 195:2,9		13:17,18 14:5 21:22	70:18 72:16 75:25
91:7 96:4,9,17,18	Ecuador 156:8	enter 28:8 52:16 53:1	evaluated 134:3,5	23:8 29:6,11 30:8	87:7,8 98:1 100:2
102:5,7 112:20	EC4M 1:6	entered 173:3	evaluating 168:16	37:1 45:2 68:5	101:13 102:18
114:4,8 136:3	effect 67:25 95:25	enterprise 63:8 64:10	evaluation 5:16 61:25	69:15,18 92:21	103:12 109:14
192:24 193:2,8,10	170:5	64:13 74:13 85:10	62:12 91:14 104:6	110:9 116:13,20	119:14,15 130:19
194:12	effectively 134:2	150:22,24 151:5	111:20 139:2,6	119:1 148:13	144:22 145:1,2,4
drills 36:4 126:8	efficient 208:24	152:9 200:18	152:21	153:13 155:14,15	158:4 159:13
drill-ready 102:24	efforts 111:21	enters 32:25	evaluations 5:18	157:1 165:13	170:14 172:18
103:3,14 104:3	EGI 62:5,13 98:22	entire 119:5 168:25	even 36:24,25 37:5	176:23 180:21	177:22 193:23
<b>drive</b> 7:16	-	202:22	41:25 42:9 50:23	206:22	203:20 206:5
driven 52:18,22 54:1	100:3 101:12 107:6	entirely 1:15 63:19	92:19 93:21 97:7	examples 6:19 9:2	207:10,13 211:21
	109:23 131:14	v	101:25 103:22	13:13 34:9	-
54:17 125:1	EGI's 101:8	118:24 143:23			211:23 212:20,21
drives 7:17	EIA 16:15,19 27:18	entirety 34:20 106:13	117:16 125:4 128:7	exceed 118:23	213:6 214:7
driving 52:15	27:21,23 37:11 48:7	116:23 117:15	128:14 131:11,14	exceeded 65:11	expertise 47:13 48:1
drop 167:2,7	211:4,7,9,16	139:9	142:14 154:18	exceeds 110:7,16	experts 57:13 60:8
DRYMER 1:11 3:2	EIAs 211:13	entity 72:12	173:7 181:7 183:11	Excellent 2:15	128:19 158:7
15:22 16:1 26:8,12	eight 9:9 20:9,19,22	entries 10:25 11:3	195:2 197:10,13,20	except 101:3 158:9	186:25 192:23
26:18,20 34:15,18	21:1 92:15 95:10	69:23	197:25 198:1,17,18	195:15	211:21
51:18,23,25 52:3,5	97:8 100:19 101:8	Environment 204:3,7	202:21,22 203:3,4,7	excessive 61:10	expert's 206:14
59:23 60:1 87:16	101:14 105:14,22	environmental 13:21	203:8 209:19,21	175:21,21	explain 2:13 23:21
123:9,14,16,19,23	106:5,7 150:16,18	16:15 43:7 47:6	evening 215:14	exchange 71:14,20	42:17 50:20 51:10
123:25 124:3,5	152:3 158:2 191:23	48:6	event 3:1 81:13 96:7	72:1,20,22,23 73:4	58:15 77:15 127:5
125:2 141:11,23		envisage 143:20	events 59:19 164:6	197:10 203:4	202:5,25
142:6,14,19,24	195:13	envisaged 23:23	166:2,9	exchanged 163:9	explained 84:10
142:0,14,19,24 143:8,12 175:22	either 15:18 18:8	equal 84:8 187:24	ever 10:1 35:8 38:16	exclude 122:7	127:25 129:1 137:6
179:24 185:3,25	20:10 27:15 46:20	equally 94:22 126:19	96:13 154:12,14	excluded 48:24	167:25 208:17
-	51:14 66:11 107:6		,		
186:5,9,12,16	145:13 166:12	equate 132:1,7	188:10	exclusive 68:6	211:8
199:23 205:12,15	208:6	equates 64:17 129:5	every 76:7 111:17	excuse 45:11	explaining 71:1
205:25 206:12,21	elaborate 141:17	132:4	186:11	executive 173:19	125:25 199:11
207:1,3 214:11,13	electrical 29:16	equilibrium 8:2,23	everyone 1:3,4 2:7	174:9	202:23
due 5:13 6:1 61:22	element 94:2 142:10	equipment 12:15	25:2 215:14	exercise 76:14 120:2	explains 160:3 170:22
63:3 109:8 185:7		13:12	everything 111:23	exercises 115:11 130:7	208:12
<b>D</b> 11 00 1 5 10 10	elements 6:4,5 7:2,7				
Dukla 89:1,5,12,18	elements 6:4,5 7:2,7 43:17	Equities 189:21	112:2 113:16	exhibit 8:13 11:1	explanation 155:4,9
90:6,21 93:23 94:1	43:17				<b>explanation</b> 155:4,9 209:15,16
		Equities 189:21	112:2 113:16	exhibit 8:13 11:1	

Anne-Marie Stallard for Trevor McGowan Page 6

# Discovery Global LLC -v- Slovak Republic ICSID Case No. ARB/21/51

# Tuesday, 6 February 2024

exploration 6:12 9:23	F	feasible 19:3 43:19	114:10 115:6 154:3	89:17 111:6,21	163:2,14 188:17
16:7 18:21 19:6,11		46:8	157:22 183:8,19	140:6 175:9 210:11	196:16
21:9 27:12 35:22,24	<b>F</b> 156:25	feature 92:8,9 113:19	198:7	focused 92:15 100:17	fully 62:6 167:12
	facilities 176:7				
36:4 38:13 48:19	facility 28:13,17 35:1	features 9:25 99:9	finding 114:14 136:3	146:23	188:7
76:14 83:24 89:16	80:24 81:3,15	102:9	136:5,10	focusing 175:7	fulsome 23:2 27:22
90:17 96:6,18 98:12	facing 183:15 185:10	February 1:8 1:1	fine 3:9 14:11 31:19	Fogaš 212:15,21 214:7	function 128:5 141:18
107:10 112:18	fact 7:21,21 10:1,18	fed 32:10,14 34:12	44:7 55:9,24 83:10	folding 8:16	fund 26:14
113:5 117:14	· · ·	fee 177:7,8,9,16 178:4	86:6 139:19 144:12	follow 5:19 17:8 71:20	fundamental 64:25
118:11 142:9	11:18 14:14 60:14	178:8,16 180:18	146:2 209:24 210:3	114:19 118:17	fundamentally 85:23
153:24 177:17	61:1,4,6 63:12 65:7	fees 177:19	213:21,24 215:4	142:5 208:25	funding 46:25 62:10
	67:15 80:13 84:24		-	followed 161:14	8
178:20 182:11	100:2 103:8,23	felt 82:25 83:8 92:18	fire 148:15 170:16		80:19 148:17
190:6	104:8,22,24 106:2	few 1:13 15:14 69:2	171:8 186:1	following 6:12 43:11	149:10 184:2
explore 169:14	108:5,8,10,12	87:17 123:23 158:4	<b>firm</b> 3:24,25	82:16 138:21	funds 80:19 102:5
explored 117:22	110:25 112:14	182:10 183:21	firms 205:3	202:11 215:19	further 2:13 50:10
121:16	113:23 114:15	186:13 209:2	first 2:23 4:12 5:5 7:8	follows 112:8 123:4	51:17 61:19 83:11
explorer 143:6		213:14	12:22 13:17 17:3,10	footnote 138:24 146:8	86:7 89:7 107:25
exploring 96:10	117:8 118:11	field 9:10,21 13:17	19:7,8,19 22:23	146:14	111:12 112:16
export 22:12 29:8,10	124:25 128:2,5	34:22 89:24 97:5	23:15 24:15 27:5	forecast 72:12 197:11	141:2 143:14
	130:22 138:10				
43:18	144:2 149:20	113:20 119:20	31:24 38:10 43:15	forecasting 72:24 73:1	163:19 164:11,16
exported 14:1	151:16 159:17,18	120:5 121:2,4,5	45:10,13 46:4,17	73:7 75:10 203:5	164:25 165:4,10,15
exporting 51:14	163:9 167:16	123:7,9,13,15,22,25	48:13 53:2,13 56:7	foremost 27:5	198:16 201:5 202:5
exposed 156:16	173:17 174:23	124:7	56:23 63:7 64:22	forest 24:20 141:15	205:11 207:4,19
expressed 163:20	177:3,11,23 178:2	fields 7:21 8:13 9:11	66:23 70:20 87:4	forgive 124:5	213:25
165:25		9:15,24 10:1,5,10	94:23 95:9 97:25	form 28:8,17 40:1	Furthermore 148:23
extends 32:6	181:2,13 183:13,22	10:14,18 14:13,21	98:8,15,20 100:2,23	105:16 107:7	151:19
	194:3,7 197:5,9			formal 65:20	fuss 14:3
extension 210:25	198:25 201:22	14:25 63:17 68:7	101:13 102:18		
extensive 39:10	202:6,21	85:7 97:7 113:21	103:12 108:18	formation 12:16 126:9	future 22:1
extent 21:8 38:21	factor 65:1,7 79:4	119:22 120:6,14,18	109:14 112:25	126:11	
80:18 90:11 106:11	198:18,21,22	122:6 123:5 128:9	113:1 119:13,14	formations 126:13	G
109:3 142:11,12	201:24 202:9,23	figure 35:14 65:9 75:1	133:7 143:11	formed 106:3	<b>G</b> 47:2
external 179:23 181:8	factored 203:7	96:22 112:6 128:21	147:14 154:5 155:6	formerly 3:23	GABRIELLE 1:11
183:4,20 205:3		128:24 129:5,7	156:2 158:4 161:5	forthcoming 47:8,23	
extra 215:3	factors 5:21 10:16	130:2 171:4 189:24	161:16 162:5 166:7	47:24	gain 54:19
	185:12 198:20			forward 33:10 78:23	gained 127:11
extract 51:10 124:6	fails 35:9 94:21	figures 66:8 70:14	166:16 167:24		game 142:9
198:25	failure 210:24	95:3,9 132:23	169:10 175:4 177:2	79:3 112:13 137:21	gap 82:4
extraction 24:19	fair 19:17 21:18 23:3	136:15,17,17,20	177:14,21 178:4	181:1	gas-processing 35:1
extreme 7:20 8:16	24:2 25:19 29:22	177:25	191:21 193:23	forwards 102:12	gauge 93:16
185:20	33:2 47:20 57:3	file 2:9,17,17	201:15 209:5	found 21:25 85:24	gave 79:17 94:12
extremely 2:9 7:14		filing 138:16	213:17	116:5 117:4,6,17	129:6
96:16 98:10 208:23	60:18 61:15 67:8,13	filled 18:7 20:10 43:2	firstly 150:12	118:9,12 119:19	
208:24	68:6 71:22,23 80:1	final 31:13 49:23	fit 151:22 211:13	161:12 197:3	GCOS 5:21 59:10
	80:4,11,16 147:4,7				94:11 95:3 133:7,8
ex-ante 60:9 61:21,22	147:25 148:4 149:8	67:19 188:17	fits 59:14	200:13 209:20	133:11,17,18,20,22
62:20,23 63:11,14	149:13,15,18 150:6	finalise 214:22	five 9:9 13:1 33:10	four 2:25 6:5 20:3	133:23 134:1,4,17
64:1 74:4,9,14,15	150:10 151:2 153:1	finally 2:25 150:2	86:17 92:20 95:11	40:15 41:15 96:24	134:23,25 136:1
74:17 77:2,4,13,22	153:8,12 158:8,11	155:21 203:18	96:23 99:6,9 100:3	131:16,21,22 134:6	137:2,21,25 138:11
78:10,19 79:2 84:10	158:25 161:20	finance 2:12,13,13	100:18 101:8,14	136:14 138:1	201:22
84:21 147:22		26:4 43:6 61:4,9,10	105:18,21 106:7,12	149:24	general 16:10 30:2
149:16 150:6,14,17	168:5 170:10 172:5	80:22 179:8,12	106:15,22 108:21	fourth 24:25 59:20	31:15 40:24 90:7
150:19,24 151:4,15	172:8 173:5 175:17	financial 39:7 46:20	108:25 109:5	four-fold 125:1	
151:17,25 153:6	189:14 190:23	59:24 72:12,24 73:1	133:12 135:16	129:15,16,21	98:9 164:2
	fairly 40:9 178:18	,	136:3,4 139:13,18	, ,	generalities 16:10
167:11 187:13	familiar 16:4,11,14,15	75:10 148:16	· · · · ·	four-year 96:16	generally 16:5,13,14
188:23 191:16,17	24:9 39:4	170:25 173:8,22	150:1 176:11	fractured 114:21	27:3 29:23,24 31:12
192:1,6,8,11,15	familiarity 16:2	175:6,24 176:10	183:21	fractures 114:23	39:25 53:12 86:17
193:3,17,18,21	Fanning 61:7 173:1,6	180:5 181:3,16	five-well 23:6	fracturing 88:23	151:10 152:21
194:1,5,9,9,12	173:14,15 174:8	183:10,17 184:25	fixed 93:14	framework 16:3	153:11
199:7 203:8 207:11	,	185:4,9,10,13,16	flag 111:8	Fraser 2:5 154:6,17	generate 5:24 19:1
ex-post 57:6 62:21	179:13,17 180:10	186:1,7 197:11	flaring 30:10 51:21,22	204:20,24	22:24 29:16 30:12
65:16 74:7 79:3	180:14,17	204:12,15,18 205:2	51:22	Fraser's 154:3 204:14	
84:13,25 147:23	far 25:13 29:18 32:13	205:7,22,22 206:14	flipping 148:8	friends 1:12 141:12	51:11
	49:15 105:12 110:7				generated 6:13 21:17
149:16 150:6 152:2	111:3 118:23	financially 174:25	floor 15:6	front 17:4 64:6 77:16	27:6 52:1
152:5,7,8,15,18,20	126:24 127:8,15	financing 39:23 46:16	flow 7:6 57:10,17,20	159:15 166:20	generating 29:1,7
152:25 153:6	137:20	148:14 176:20	60:20 65:23 74:21	FTSE 78:2 79:1,4	107:9,21
167:12 187:14,14	fault 8:4,25	177:12 179:17,18	75:4,12 149:4 182:3	84:14 147:24 164:9	generator 29:13
191:17 199:8,14	-	181:2,6	flows 163:9	167:10	generic 7:23 78:12
eyeballing 66:20	faulted 114:21	find 18:7 26:24 63:20	fluid 7:4	fulfil 163:1	gentlemen 208:20
eyes 35:17 104:11	faulting 8:17 88:23	63:23 80:19 85:16	fluids 28:14	full 27:23 61:25 62:3	
-,	faults 7:25	90:11 113:24	focus 7:10 35:18 61:23	110:22 120:21	geographic 134:4
	feasibility 24:7 25:11	20.11 113.2 <del>4</del>	100005 7.10 55.10 01.25	110.22 120.21	geographical 16:22
1		1		1	

Anne-Marie Stallard for Trevor McGowan

Page 7

#### Discovery Global LLC -v- Slovak Republic ICSID Case No. ARB/21/51

Tuesday, 6 February 2024

	T				
geological 5:21 19:22	165:23 167:22	40:18,24 41:2,20	84:6 93:19 126:18	hydrocarbons 17:11	124:24
20:4 42:22 57:11,12	170:20 177:19	42:2	126:21 128:3 135:8	17:13 18:7 19:21	improvement 82:21
57:22 59:4 65:4	182:1,6,12,21,22,25	Gulf 58:23 61:17,22	135:9 151:11 198:2	39:16 41:18,21,25	122:21 125:1
69:12 88:15 94:3,9	183:1,8,15 184:9	162:10,11,23	198:17	42:10 45:8 49:16	129:16,22
130:25 132:21	185:1 186:15	163:17 187:3,25	highest 173:7	73:16 98:17 113:14	improvements 82:21
134:16 140:8	204:23 205:21	188:4	highlighted 9:16	113:15,18,19	inaccurate 205:12
196:13,20 197:3	206:17 211:17		highly 46:24 176:4	114:16,18	inappropriate 10:22
200:23 201:3,13	212:17	Н	203:12	hypothetical 22:25	112:5 125:22 126:2
202:7	gone 18:1	half 1:25 11:19 36:19	High-level 6:21	156:5	203:16
geologist 88:4	good 1:3,8,9 3:19 4:2	117:9,11,16,25,25	hills 24:20	hypothetically 17:12	include 61:18 213:5
geology 91:11 140:1	4:10 15:12,13 44:4	118:3,5,12,15,18,19	him 125:24 126:1	164:12,23	included 65:7 120:2
211:1	54:21 55:13 66:4	129:7,23 143:24	137:11,12 191:2		128:4
gets 95:7	87:21,25 97:22	144:1,3 214:11	202:25	I	includes 7:25 36:7
getting 36:17,17	120:13 143:13,18	halfway 92:13	himself 179:17	idea 27:3 33:25 67:11	43:6 120:5 126:23
give 5:5 15:6 18:13	144:13 145:21	hammer 53:6	historic 9:21 11:7 12:4	145:21	151:5
42:25 45:11 68:15	146:2,4 153:11	hammered 52:22	95:18 113:21 149:1	ideal 141:24 185:9	including 6:19 7:16
115:8 126:25	157:11 183:17	hampers 163:9	150:9	ideally 31:22	9:11 13:20 120:22
173:22 209:4,15	186:5,16 206:21	hand 68:24 211:8	historical 6:1 91:4	identifiable 10:6	122:13 210:22
211:6 214:21	208:17 213:3,9	handed 70:4	95:21 96:19 97:2,5	identification 50:20	income 71:3 81:25
<b>given</b> 1:24 2:18 3:5	215:1,7,14	hands 1:15	97:13,16 114:25	identified 6:24 18:22	146:25 155:16
9:18 10:2 20:9 63:4	government 47:7	happen 73:12	121:24 122:17	19:12 20:10 92:2,5	158:9
63:23 123:25	governs 138:16	happened 164:23	130:1	93:7,17,25,25 99:9	income-based 57:9
148:25 211:22	GPOS 134:17	165:6 166:9 171:23	historically 93:21	100:3,4,11,18,19	incomparable 63:19
gives 19:18 42:22	grabbed 161:8	182:23 187:9 193:8	124:8	101:8,9,24 104:24	incorporation 42:22
130:2	gradient 64:12 74:12	happening 181:12	history 89:16 93:16	106:12 109:11,18	incorrect 64:5 188:12
Global 1:15 19:10	75:13	happy 29:23 57:16	112:18 113:6	110:2,5,8,18 112:7	205:3
25:14 26:3 38:16	grand 180:3	58:16 70:23 86:13	hitting 135:8,9	119:18 120:13	increase 11:11 95:24
69:6,10,14,17 70:3	grant 204:21 210:25	hard 98:3 102:19	hold 53:15,19 105:3	131:16,20 132:15	96:20 124:1 129:19
70:9 77:4 88:12 177:4 179:6	granted 147:15 169:14	109:15 113:3	Holdings 178:22 180:11	135:21 137:2,3	166:16
globality 153:7	graph 63:7,13 64:6	115:14,25 119:15	honour 4:19 56:14	identify 17:11 58:3	increased 165:5 increasing 165:7
go 6:3 15:17 18:3,23	66:21 74:12 75:13	124:11,13 138:20	87:10 145:5,8	100:13 111:4,12	incremental 67:23
24:25 25:1 26:24	78:14 79:7 120:21	183:19	hooked 13:5 29:17	122:7 127:14	incurred 153:25 204:8
29:14 30:25 35:13	192:2	having 3:12 10:5	52:1	131:21 137:7	205:18 206:8
44:7 45:11,13,18	graphically 11:2	43:23 46:21 84:22 148:8 163:17	hope 39:8	identifying 50:18 111:17	indeed 212:12
47:2,3,3 48:10	graphing 63:8	183:23 193:24	hopefully 55:23	<b>IDRC</b> 1:5	independence 211:24
56:24 57:17 59:17	GRASSI 2:4	201:23 202:6,8	hoping 39:9	ignored 178:2	independent 40:1
66:5 69:15 72:7	gravity 69:23 91:10	214:19	horizons 127:15	<b>II</b> 156:8	94:10 132:14
76:1 77:25 82:7	114:7	head 195:24	host 37:1	illustrate 13:14	index 3:1 78:3 79:1,1
88:7 92:22 97:4	great 23:20 27:16 31:4	heads 174:19	hour 143:24 144:1,3	107:10	79:5 84:14 147:24
102:11 105:5	59:17	health 55:20	213:10,11 214:11	illustration 32:16	149:17 164:9
107:20 109:14,20	greater 84:7,7 119:21	hear 1:19 213:3,17,17	214:11,12,23	155:19	167:10
112:16 113:24	126:14,17	heard 3:24 4:15 16:20	Howard 3:16,17 50:24	image 24:25 31:10,18	indicate 8:23 77:19
126:14,18,19,24	GRECH 2:4	56:10 87:7 145:1	55:11,19 56:1,2,3,5	images 31:2 54:14	90:7 177:11 179:24
129:13 130:22	green 117:3,8,10,11	157:14 165:6 199:7	56:9,14,21,22 59:25	imagine 143:25	180:2 182:3 189:14
134:8,10 145:14	grey 89:5,6	211:12,18,19	60:2 65:14 66:4	175:12	indicated 10:23
148:10 169:12	grid 29:17	hearing 1:9 1:25	70:19 72:9 86:8,9	immediate 61:23	115:15 150:7
175:5 179:3 181:19	grids 107:6 109:4,4,5	155:2,7 166:16	141:12 148:21	immediately 74:1	indicates 165:19
207:14	gross 142:6	170:16 171:24	151:14,19,24 152:6	impact 16:15 136:2	176:19 indicating 93:18
goes 29:15 59:14 138:21 155:17	ground 17:18 52:19 54:1 210:7	177:14,21 178:5	159:14,18 160:24 161:3,5 162:1	implement 46:22	indicating 93:18
138:21 155:17 171:3	<b>grounds</b> 209:18	210:9 215:19	165:19 192:14	implied 61:19 149:8	154:15 170:3
going 6:3 7:10 18:15	group 11:21,24,25	heavily 131:19	193:7,21 194:2,4,8	150:8,10	174:24 175:23
24:4 27:1 28:1 31:5	12:13,14 81:15	held 91:17	195:15 198:6 199:5	implies 60:8 78:14	176:9,17 181:3
31:5,20,23 33:15	182:5 195:6	Hello 5:4	201:19,21 202:4,22	149:5 153:1 156:8	205:12,20 210:13
37:24 40:4 44:7	group's 182:3	help 21:21 26:9	201:19,21 202:4,22 203:6	imply 150:20 190:15	indications 185:12
45:11,24 58:14	guarantee 179:25	helpful 107:24 157:2	Howard's 6:8 19:15	implying 174:20 important 2:18 5:20	209:3
59:17 61:12 64:8	180:24 205:5	210:11,18 213:13 215:3	33:24 68:22 70:16	important 2:18 5:20 8:5 39:15 76:9	individual 67:14,22
69:3 73:20 80:15	guaranteed 179:13	helps 39:22	70:18 149:4 152:11	8:5 39:15 76:9 88:21 89:20 90:6,22	68:3 94:13 95:15
82:7 85:4 93:2	180:10,14,17	hence 77:25	152:17 154:25	91:15 112:12	123:6 134:15
94:22 98:1 101:11	184:11	hesitate 206:17	155:13 160:4,15,18	157:24 195:2,9	135:16 136:1,24
102:22 109:23	guaranteeing 179:18	high 5:17 32:8 33:4	161:2 162:3 170:14	Importantly 6:15	137:8,13,22 142:4
111:18 115:13,19	guarantees 181:9	46:21 151:12	184:16 193:14	impossible 155:13	143:9
118:8 121:15	guess 34:3 142:19	174:17 177:16	198:11 203:2	improve 83:1 94:24	individually 135:10
123:21 125:10	guidance 72:2,3 73:14	178:4,8,13,15,16	207:10,13	114:10,12,13 115:5	individuals 98:24
130:16 132:7 142:4	157:1	202:21 203:3	<b>hub</b> 32:11	115:7	142:14 174:15
142.10 12 162.15		202.21 203.5			
142:10,12 163:15	guidelines 39:2 40:10	higher 10:19 12:1,2	human 173:18	improved 83:9 122:25	175:2

Anne-Marie Stallard for Trevor McGowan

# Discovery Global LLC -v- Slovak Republic ICSID Case No. ARB/21/51

Tuesday, 6 February 2024

					r
industry 7:9 14:18	international 1:2,4	<b>JARA</b> 1:22	known 120:3 210:21	left-hand 7:19 10:10	133:18 139:6,9
39:2 71:2 88:5	212:3,5	<b>JESKO</b> 1:23	Krivá 21:10 29:22	11:5 190:10	140:4 164:11,17
industry-standard	interpretation 59:13	JEŠKOVÁ 2:13	103:9,14,17,23	left-side 199:20	165:13 184:16
6:10	60:15 69:24 70:11	JKX 64:8 152:6	104:2 211:16	legal 47:6,10,11,19,25	186:18 189:10
inferred 11:13	91:24 92:12 107:18	joint 145:16	KUPKA 2:12	71:9 85:17 86:2	licences 88:9,10,12,15
inflated 125:5 129:22	109:10 131:7 165:1	<b>JORDAN</b> 2:14		188:7 211:21,23	88:25 89:3,6,11
information 5:6 15:18	169:4,17,20	Journal 14:6	L	lending 45:2	90:13 97:15 105:4
54:13 59:9,14 61:3	interpretations 62:14	judgment 102:4	<b>L</b> 1:11	length 33:1 55:20	147:16,20 149:13
71:13 72:13 76:10	interpreted 59:21	145:19	lack 208:8	Leon 58:22 60:2,3,4,4	149:22 150:21
77:16 80:10 89:24	92:24 114:6 131:12	JULIÁN 2:12	lacks 155:22	60:17,20,21 61:3,8	151:3
91:3 96:12 97:2	139:12	July 69:22	land 28:6 50:1,1	61:15 69:8,11 79:15	<b>lie</b> 98:11
98:19 105:6,10,11	interrupting 14:8	June 64:18 166:19	landowners 50:3,5	80:3,18 81:22 82:3	lies 17:9 117:6
108:11 112:15	interruption 44:6	187:13 191:17	landscape 79:20	82:7,9 147:16,17	light 167:16
119:11 127:1,11,13	79:13	192:8,16 193:3,20	Lane 1:5	148:15,24 149:1	like 1:15 5:5,19 13:13
142:2 166:12,14	intervals 10:24 125:23	193:24	LANGER 1:23	153:14,15 162:10	22:1 25:1 26:22
informed 148:23	intra-Dukla 101:3	jurisdiction 209:10,19	language 46:1	167:24 168:8,15,24	29:12 31:14 33:10
infrastructure 28:12	introduced 199:3	210:15	large 21:17 49:25	169:2,25 170:24	36:24 38:17,22 40:1
28:19 48:4	invalid 148:21	jurisdictional 209:18	67:17 115:2 120:23	174:9 181:16 184:4	40:6 44:9 84:19
inherited 69:11,15,18	invest 183:2	justify 27:9,11 102:6	125:9 167:7 174:19	186:17	115:10 141:14
initial 22:19 111:5,6	invested 147:14	justifying 44:11	174:23 175:3	Leon's 61:12 80:9	175:17 177:19
149:24 169:4,17	153:14 183:5 184:6		207:23	146:13 170:22	178:15 179:2
188:16,20 initially 149:22 199:15	186:14 investing 153:16	<u>K</u>	larger 10:10 110:18	173:1 178:23 less 10:5 11:15,19,19	181:18 195:15 196:14 203:2,18
204:21	184:8	KAMENICKÝ 2:11	116:14 121:6,20	13:3,5,8 36:20	209:3,3,12 210:11
initials 76:6	investment 1:2 58:23	KAUFMANN-KO	128:14	89:15 96:1 123:21	209:5,5,12 210:11 214:3
input 8:8 58:7 75:21	58:24 61:18 62:9	1:11	largest 14:15	129:17,18 130:4	likelihood 46:21
94:7	149:24 150:2 187:6	keep 15:16 31:22	large-scale 67:13,14	144:2 150:5 185:9	likely 10:8 17:11 18:7
inputs 57:19 116:10	188:20	76:10 186:10 197:4	large-size 53:1	200:12 201:1	18:14,16,20 19:25
inside 53:7	investor 92:1,3 110:9	key 6:4 82:19 89:14 92:7	last 2:17 24:13,15 38:6	203:11	21:5 46:24 58:2
insights 11:8	110:12,14 111:7,18	92:7 kilometres 16:23	48:12 66:8 82:1 87:16 90:23 91:6	let 27:2 30:18 31:8	76:15 83:25 84:6
instance 1:20 19:7	112:9		102:22 114:8	37:24 53:19 55:22	92:25 95:6 114:10
50:4	investors 85:13 176:8	32:17,18,19 91:8 93:15	211:15 212:13	55:24 67:4 77:15	114:17 120:16
instead 146:16 175:6	176:12	kind 24:15 32:5 36:22	later 1:17,21 11:16	80:8 82:8 103:22	168:19 169:24
195:16 203:2	invoiced 206:23	70:24	26:9 62:12 77:12	131:11 133:24	189:3
institutional 168:23	invoices 154:8	kindly 6:19	89:20 163:4 182:24	143:20 185:8 212:9	limited 139:15 140:4
institutions 39:7	invoicing 3:5	Kingdom 107:18	183:15,21 184:9	letter 46:18	177:4 178:22
instructed 37:15,19	involved 172:21	108:3	186:14 214:21	let's 3:11 9:20 12:3,20	line 22:12 25:4,6
104:19 192:17,18	involvement 172:10	kit 36:17	latest 95:12 187:14	26:24 46:16 55:14	32:21,23 36:1,2
instruction 37:19 57:3	involving 157:23	<b>km</b> 23:23 169:15	latterly 204:21	70:20 86:16 99:14	44:21 64:12 151:21
146:22	in-place 17:25 19:20	know 3:3 4:23,24	law 27:17 212:1	123:15 153:19	176:23 179:19
instructions 186:25	<b>IPOs</b> 5:12	22:20 27:2,24 31:8	lawyer's 206:14	176:14 181:11	181:6,13
instrument 78:4	<b>IPR</b> 7:3	32:16 34:9,15 43:7	lead 24:1 109:7	level 67:25 132:18	linear 64:8 65:17
insufficiently 105:23	irrelevant 183:9,16	48:20,20,22 53:23	111:17 137:4	140:23	lines 139:12,18,19,23
integral 5:8	issue 9:8 14:3 48:10	54:15,16,19 55:22	145:12	levels 128:22 201:14	212:15
integrate 96:11	80:15 94:15 96:4	55:24 59:6 77:9	leads 91:19,19,20,23	Lewis 2:6 60:19,24	list 20:19 44:8 125:13
integrated 21:18 62:6	211:9,18,18,21	78:14,19 81:2 83:1	92:12,15,18,20 93:7	80:2,9 165:22	128:8,9 159:19
67:16,19 68:8	212:1,25 213:6	83:22 84:24 86:13	93:9,17,24 94:2,16	166:12 169:3,7,10	161:6,8 194:21
integrity 76:9	214:5	87:8 100:21 101:11	97:1,3,8,13 101:16	169:13,23 170:5,19	210:19
intend 214:17	issued 67:4 131:4	101:15 104:17	101:24,25 103:22	170:21 171:14,20	listed 172:18 175:12
intended 26:14 103:7	182:13 190:12	106:18 108:20	105:23 106:5,8,12	171:25 172:14,22	178:21
103:8 112:1 188:17	issues 2:24 36:23,25	112:3 114:2 117:24	110:6,8,19,22 111:1	173:11 211:8 I FŠOVÁ 2:12	<b>listing</b> 71:14 72:2
intention 111:22 112:3	37:2 55:20 79:18 80:7 210:15,16	118:2 120:17,18	111:10 120:12,15	LEŠOVÁ 2:13 liability 200:20	<b>Litigation</b> 2:3,4,4,5 <b>little</b> 5:5 14:3 24:16
intentions 53:14	212:4 213:18	121:4,15 127:1	133:20 134:2 137:2	liability 209:20 LIBOR 155:24 156:5	35:17,19 38:22
interact 7:4 19:15	item 61:11 180:8	132:6 139:21 140:5	137:3 208:19	156:6	45:25 52:9 55:3
interact 7.4 19:13	181:25	146:3 148:25	learned 155:4,6	licence 5:25 16:23	43:23 32:9 33:3 68:20 89:1,2 90:25
interconnector 32:11	items 162:18	154:19,20 155:13	lease 210:24	17:13 18:3 19:2	93:11 94:10,17
32:15,25	i.e 10:5 57:25 59:1	166:23 170:7,21	least 49:2 99:6 103:13	42:19 57:15 61:25	95:14 97:16 113:24
interest 60:5 147:11	64:15 201:24	173:1,14 174:2	117:17 129:23	62:11,17 63:5 89:9	150:9 181:25
154:17,21 155:22	0.110 201.21	177:15 178:11	135:3,17 136:3,6,6	90:1,9,20 91:1,2,17	190:11 202:2
155:23 156:9,11,12	J	180:5,20 181:10	136:10 153:17	98:16 106:14	203:13 214:21
164:14,19 210:15	JAKUB 2:11	183:24 184:1,3,5 185:6 190:4 194:7,9	184:17 187:20 194:13	110:23 111:2	215:3
interested 13:23	JARUB 2:11 January 37:16 60:6	196:1,11,13,16	leave 65:20	112:19,21 113:6	LLC 1:15
interesting 141:22	147:18,22 153:15	205:25 206:4,19,22	led 50:18 165:5	116:7 117:23 118:1	loan 80:22,23 81:2,15
interests 56:25 187:20	153:22 168:1	knowing 43:22	left 1:25 14:9,10 65:13	118:3,9,14 120:9,19	176:6 177:2,7
internal 8:17 98:2	182:17 192:24	knowledge 38:21	88:18,20 149:2	120:24 121:7	178:10,21 179:6,7,8
130:19	208:5	168:20,22,23	174:6 177:1 190:23	125:24 126:25	179:12,13 180:1,6
					1

Anne-Marie Stallard for Trevor McGowan As amended by the Parties

#### Discovery Global LLC -v- Slovak Republic ICSID Case No. ARB/21/51

# Tuesday, 6 February 2024

180:10,13 181:10	157:19,22 159:10	59:8 64:25 71:25	36:13,25 50:23	176:15	184:17 190:11
184:11	163:15 164:2,10,14	76:7 80:16 96:14	182:4	mentioned 13:22	199:1,7,15 200:1,2
loans 176:18 177:1,13	164:19 165:3 191:4	110:15 117:19	materiality 61:13	15:22 38:25 67:5	200:2,3 208:14
177:24 178:19	195:8 202:3	119:16 132:18	80:15	68:10 88:24 109:11	millions 63:9,10 82:1
179:5 180:16,21,21	looks 96:24 109:10	137:17 142:12	mathematically 138:8	115:12,24 117:2	mind 6:1 9:22 36:19
184:19	159:8,9	145:2,19 146:6	matter 1:1 118:13	122:16 124:24	63:2 85:6 111:21
local 48:15,18	lost 118:7 147:9	154:22 178:17	197:12 209:9	181:19,21,23	minded 138:8
located 32:11 114:3	154:22,23 155:8,10	191:8 194:2 197:16	matters 3:3 4:13 1:13	191:18 197:9	<b>mine</b> 162:4
location 90:18 134:4	lot 38:18,24 89:14	204:11 212:10	2:2,4	199:13 203:24	MINGUEZ 14:10
locations 37:21 38:14	95:20 98:24 111:16	213:2	mature 46:6,8,14	213:12,19	minimal 28:15,16
68:1,4	113:15 114:22,22	makes 1:21 44:18	maximising 12:17	merely 74:21	minimising 12:16
logic 64:5	114:24 128:6	115:8 187:23	may 2:2 5:1 8:4,24	merit 209:9	mining 73:8,9
logical 119:4	129:17,18 144:2	198:24 206:7	10:8 19:21,21 42:17	merits 1:9 209:19	Ministry 2:12,13,13
logistical 1:13	167:21 181:12	making 51:3 118:14	51:8 52:8 55:21	Messrs 141:12	204:3,7,14
LONDON 1:6	183:25 185:10	122:2,12 164:2	110:10 111:18	met 40:20 41:3 43:11	<b>minor</b> 146:6
long 122:18 167:23	202:10 211:18	173:12 178:3 194:3	116:6 118:15	43:14,25 44:15	<b>minute</b> 14:9,9,10
longer 49:16 87:17	lots 88:22	194:5 211:25	120:18 121:5	45:21	65:11
124:6 189:4,7	Lovell 1:25	215:10	122:24,25 124:25	method 6:10 7:11,13	minutes 4:23,24 55:7
Longman 3:21,22	low 7:18 21:13 129:9	Management 38:23	126:15,19 131:4,5,6	8:6,10 9:3,7 14:21	55:14 56:19 65:10
6:20 10:21 86:11,23	167:20,22 178:13	managing 174:12	134:3,9,9 137:9	19:24 50:25 57:9	86:14,17,17 87:14
86:24,25 87:1,3,6	lower 189:12	manipulate 119:7,9	138:8 142:15,21	65:18 74:22 79:6	87:17,22 112:10
87:10,15,24,25 88:2	LPL 179:8,12	manner 70:8	146:2 163:20,21	84:17 157:15	146:3 156:21
97:12,22 141:8	lunch 1:20 3:10	many 9:24 13:21	164:5 165:8 167:6,7	methodologies 14:19	mirror 50:23
143:14,16 152:19	143:18 212:11	48:15 110:22 113:9	167:15 168:18	methodology 6:4 57:8	misleading 137:19
165:6,19	LUO 2:12	120:6 125:21	170:2 182:4 183:13	57:23 58:16 62:20	159:20
Longman's 7:20 86:14		206:16	195:7 210:18 211:6	94:5	mismatch 128:12
106:25 165:11,16	M	map 89:2 90:18 91:5	211:7	methods 7:8	miss 141:15
189:2 192:11 193:4	Macquarie 189:21	91:23 101:2 115:15	maybe 1:18 4:8 21:21	metres 11:15,19,20	missed 4:8
194:16 200:8	madam 1:10 3:16 5:1	115:20 116:3,22	28:1 35:17 42:13	13:3,9 36:20	mistake 126:4 161:10
look 13:7 22:1 26:22	5:4 44:7 50:10,14	117:3	86:15 118:4 123:24	metric 150:12,22	161:15 195:16
29:12 31:14 34:19	53:15 54:7 56:22	mapped 17:24 19:20	123:25 199:23	151:16	214:6
45:24 59:23 62:22	66:3 83:11,13 86:9	42:20 93:3 101:3	206:13 213:11	MICHAEL 2:6	mistaken 54:3,3
63:16 64:6 70:23	87:25 141:6 207:19	120:10,24 122:8	214:14	middle 72:9 81:10,12	misunderstand 85:21
74:23 92:11,17	212:12	maps 17:1 100:16	mean 26:23 30:4	170:23 183:6,14	mix 50:1
95:24 97:1 98:1	made 12:12 14:7,12	107:8,9,21,23 108:1	50:22 51:20 69:12	mid-scale 67:17	mixture 85:11
102:22 107:2	21:1 30:25 32:2	108:1,2,4,6,7,8,9,9	74:16 77:17 105:12	might 1:11 16:14	mm 32:12
109:23 112:18,23	40:1 43:23 44:14	108:13,19,21	107:14 112:16	17:17,19,21 25:1,3	MMstb 12:5
115:10,13 127:25	68:20 84:12 112:9	March 61:20 69:6,23	121:23 124:5	27:13 29:5 36:14	<b>Mm-hm</b> 23:14,17
130:8,16 136:2	116:9 127:18	87:5 144:23 147:17	129:25 130:11	47:11,19 83:3 84:20	33:16 36:3 41:10,12
153:5,7 157:24	139:14 160:9	168:8,21 188:1,6	133:14 137:8	84:25 85:24 98:17	46:3
159:8,13 162:5,9	161:15 176:5	mark 2:3 2:20	139:17 140:22	111:23 112:2	MoA's 210:24
163:19 169:9 170:18 174:5	193:11 195:15	marked 10:12 35:6 market 57:3 60:18	149:13 153:17	123:13 140:15 142:16 143:7,9,10	model 19:10 30:14,19
176:14,25 181:22	199:10,10 200:14	61:16 67:8 68:6	154:14 161:19 166:7,15 167:21	170:16 180:23	31:13 32:21 33:9 34:3,12,19 35:4,8
176:14,25 181:22 181:24 182:20	211:12 214:6	71:22,23 80:1,4,12	172:16 176:8,10	199:23 214:20	36:24 37:5 48:8
190:19 191:14	magnetic 91:10	80:16 146:23 147:3	178:12,15 180:21	Mike 38:18	57:10,14,17,20 58:7
197:19 203:8,9,18	magneto-telluric	147:4,7,25 148:4,11	190:19 196:21	million 58:10 60:9	67:21,21,21 73:22
206:19 213:13	60:14 82:17 91:12	149:8,13,15,18	209:8	61:5,20 64:2,17,18	73:24 74:21 75:13
looked 10:2 25:1	magnitude 78:13	150:6,10,11 151:2	Meaning 205:9,23	65:9 66:19,24 68:9	75:19,21,22 76:23
92:20 105:10,15,21	186:2 MACNUS 1:22	153:1,6,8,12 158:9	means 3:2 27:4 41:17	68:11,12,16 73:21	77:1 128:23,25
105:21 108:13,21	MAGNUS 1:23	158:11,25 161:20	74:11 81:8 140:13	74:3,19 75:4,19	149:5 154:25
108:22,23 109:5	Magura 89:1,4,11,18	167:9,20 168:5	140:18	76:21 78:15,18,22	155:13 159:4
133:19,21,24 139:8	90:5,20 93:23,25	170:10 171:8 172:5	meant 71:11	79:8 80:23 81:2,16	modelled 9:14 34:16
160:25 177:24	99:20,25 100:13,15	170:10 171:0 172:3	measurable 142:15	82:4 83:17 84:19	67:23 96:7
178:1,7 184:7 198:6	101:2 130:2	183:1 189:14	measure 153:12	95:20 123:15,18,23	modelling 19:16
204:19	main 6:5 54:22 91:6 181:15	190:24 191:2,7	measures 210:19,23	147:5,7,19,20,25	models 14:20
looking 10:4,10,20	mainly 10:22	199:6 203:7	211:4	148:1 149:5,10,14	modern 12:15 122:22
17:6 23:7 31:20	maintain 194:23	market-based 85:18	mechanisms 7:16	149:18,19,22 151:5	123:1,10,20
	mannan 194.23	86:5 157:16 158:6	median 58:2	151:15,25 152:16	MoE 210:25
40:21 63:20 70:19	major 37.6 49.2 20			153:2,8,14 154:3,25	
	<b>major</b> 37:6 49:2,20	158:14,18,22,24	meet 104:25	155:2,0,14 154:5.25	moment 11:5 12:21
40:21 63:20 70:19	majority 13:3,10	158:14,18,22,24 159:7 160:20 172:4	meet 104:25 member 5:15	155:1,7,17,18,18,20	15:17 24:8 37:25
40:21 63:20 70:19 80:9 89:10,24 93:9	<b>majority</b> 13:3,10 107:4 108:7,10				
40:21 63:20 70:19 80:9 89:10,24 93:9 93:13 95:14 98:2,3	<b>majority</b> 13:3,10 107:4 108:7,10 113:12,13 122:16	159:7 160:20 172:4	member 5:15	155:1,7,17,18,18,20	15:17 24:8 37:25
40:21 63:20 70:19 80:9 89:10,24 93:9 93:13 95:14 98:2,3 100:7,10 102:19	<b>majority</b> 13:3,10 107:4 108:7,10 113:12,13 122:16 127:23	159:7 160:20 172:4 marking 213:22	<b>member</b> 5:15 <b>members</b> 1:23 2:8 5:4	155:1,7,17,18,18,20 155:20 158:10	15:17 24:8 37:25 45:6,7,11 70:18,23
40:21 63:20 70:19 80:9 89:10,24 93:9 93:13 95:14 98:2,3 100:7,10 102:19 105:6 107:17	<b>majority</b> 13:3,10 107:4 108:7,10 113:12,13 122:16 127:23 <b>make</b> 4:16 5:20 12:23	159:7 160:20 172:4 marking 213:22 Masters 177:4 179:6	<b>member</b> 5:15 <b>members</b> 1:23 2:8 5:4 87:25 146:4	155:1,7,17,18,18,20 155:20 158:10 173:24 176:6,7,11	15:17 24:8 37:25 45:6,7,11 70:18,23 98:5 102:23 109:24
40:21 63:20 70:19 80:9 89:10,24 93:9 93:13 95:14 98:2,3 100:7,10 102:19 105:6 107:17 115:23 124:20	<b>majority</b> 13:3,10 107:4 108:7,10 113:12,13 122:16 127:23 <b>make</b> 4:16 5:20 12:23 31:7 35:17 38:24	159:7 160:20 172:4 marking 213:22 Masters 177:4 179:6 match 202:11	<ul> <li>member 5:15</li> <li>members 1:23 2:8 5:4</li> <li>87:25 146:4</li> <li>Memorial 154:24</li> </ul>	155:1,7,17,18,18,20 155:20 158:10 173:24 176:6,7,11 176:11,18,24 177:2	15:17 24:8 37:25 45:6,7,11 70:18,23 98:5 102:23 109:24 116:22 135:1 141:1
40:21 63:20 70:19 80:9 89:10,24 93:9 93:13 95:14 98:2,3 100:7,10 102:19 105:6 107:17 115:23 124:20 125:2 130:10,12	<b>majority</b> 13:3,10 107:4 108:7,10 113:12,13 122:16 127:23 <b>make</b> 4:16 5:20 12:23 31:7 35:17 38:24 40:18 41:2,20,24	159:7 160:20 172:4 marking 213:22 Masters 177:4 179:6 match 202:11 matches 58:3 76:17	member 5:15 members 1:23 2:8 5:4 87:25 146:4 Memorial 154:24 155:5	155:1,7,17,18,18,20 155:20 158:10 173:24 176:6,7,11 176:11,18,24 177:2 177:3,24 179:20,22	15:17 24:8 37:25 45:6,7,11 70:18,23 98:5 102:23 109:24 116:22 135:1 141:1 159:16 165:23
40:21 63:20 70:19 80:9 89:10,24 93:9 93:13 95:14 98:2,3 100:7,10 102:19 105:6 107:17 115:23 124:20 125:2 130:10,12 132:21 136:23	<b>majority</b> 13:3,10 107:4 108:7,10 113:12,13 122:16 127:23 <b>make</b> 4:16 5:20 12:23 31:7 35:17 38:24	159:7 160:20 172:4 marking 213:22 Masters 177:4 179:6 match 202:11 matches 58:3 76:17 material 7:3,10,13,21	<pre>member 5:15 members 1:23 2:8 5:4 87:25 146:4 Memorial 154:24 155:5 memory 99:14 188:16</pre>	155:1,7,17,18,18,20 155:20 158:10 173:24 176:6,7,11 176:11,18,24 177:2 177:3,24 179:20,22 180:13 181:7,10	15:17 24:8 37:25 45:6,7,11 70:18,23 98:5 102:23 109:24 116:22 135:1 141:1 159:16 165:23 168:6 171:19 175:8

Anne-Marie Stallard for Trevor McGowan Page 10

# Discovery Global LLC -v- Slovak Republic ICSID Case No. ARB/21/51

# Tuesday, 6 February 2024

	-	-	-	-	
monetary 70:14	141:12 192:13	22:11 24:10 27:2,6	39:9	obviously 28:19 29:7	100:11 120:22
monetises 33:24	193:7	27:8,12,13 28:4,5,8	non-sealing 7:25	29:16 30:5 84:5	122:8 123:20
money 83:6 111:12,17	Moy's 31:24 45:10	28:16,19 29:7,25	north-east 89:7	86:1 94:22 104:13	133:24,25 134:19
149:2 163:11,13	47:4 75:7 125:20	30:12 31:6 34:5	north-eastern 88:12	141:25 143:1 197:2	ongoing 26:15 38:5
175:3 183:14	Mstb/well 12:6	35:2 41:15 51:13,15	north-west 90:19	212:6,25 213:3	62:12
186:14	MT 114:7 131:11	55:21 67:2 71:20	note 15:23 57:2,5,19	occur 36:14	online 13:23 14:5
Monte 57:22 75:8	much 4:25 12:1 15:4	86:10 92:22 96:1	58:25 59:12 60:11	occurred 12:8 21:5	only 4:16 11:24 17:1
76:4,10 106:17	15:11 24:9,14 25:2	116:10 117:21	60:17 62:3,20 63:21	22:9 188:18	22:1 33:11 46:10,23
month 182:21 186:14	31:4 32:1 54:25	123:13 144:5 146:6	65:15,21 71:8,24,25	occurs 19:7 167:3	48:8 53:21 56:11
months 62:12 82:16	55:1 62:8 86:8	150:11 164:4	72:2,3,19 73:14	206:1	61:22 63:14 77:4
176:11 183:15,21	119:7 121:6,20	180:20 183:24,25	76:6 77:8 90:8,22	October 56:7 149:11	84:12 94:3 99:11
186:13 193:2	128:3 129:9 138:10	184:5,13,15 186:10	91:15 93:7 96:21	187:15 188:1,5,6	100:3,7,10 105:24
194:13	141:25 143:13,17	188:13 209:1	107:4,13,13 139:11	191:19	110:13 111:8
more 7:23 14:11 24:16	143:20,23 155:10	210:14 213:11	139:22 150:13	off 167:7 195:24	112:15 115:21
26:12 27:22 36:22	174:21 176:3 180:2	214:1,4	151:14 156:20	offer 211:12	116:1 118:3,4
53:12 67:2 82:8,8	196:12,16 215:5,16	needed 43:20 47:25	176:14,15,16 177:3	offshore 5:10 63:17	120:23 123:18
82:17 89:2 95:14,25	multiple 8:21 14:12	48:4 60:20 80:18	177:6 178:24	off-the-shelf 28:23	129:10 133:18,20
110:5 121:25 122:5	49:24 199:7 203:9	86:14	179:11	often 39:22 107:10	139:5,12 148:2
123:1 129:14 133:5	203:10	needs 16:7 27:20	noted 52:3 57:7 61:11	126:22 180:21	150:14,17 151:8
136:25 137:10	multiples 161:22,25	86:16 163:23 172:5	90:4 156:17,19	182:12	152:19,24 156:6,14
141:14 143:24	multiplied 75:11	negates 126:11	199:4 211:20,23	<b>Oh</b> 3:24 22:4 133:14	161:9,12 169:4,16
144:3 149:20 150:4	151:23 152:17	negative 117:25	notes 59:20,21 60:19	oilfield 13:12	185:23,25 186:22
151:10 155:12	multiplier 78:3	118:19	nothing 49:9 50:10	oilfields 13:14 33:15	187:16 192:12
167:13 176:14	multiplying 190:16	negotiated 173:2	104:13 180:6 183:5	33:20 35:7 65:8	194:4,18,23 195:9
180:5,20 183:24	Murphy 156:8	178:17,18	199:11 215:12,13	68:3 119:17,25	199:4,6 214:23
184:1,5 185:11,14	must 27:18 40:12,15	Neil 2:3 97:22 157:11	notice 107:13	120:3,21 125:19	onshore 5:9 13:4,14
185:18 187:18	45:21 46:7,19 47:5	neither 71:10	noting 128:7	128:22	13:19 14:16 15:2
195:2 198:24	72:12,22 165:25	net 57:14 58:8 155:16	notion 141:17	okay 15:21 16:13,18	<b>onto</b> 32:6
208:12 211:6	177:24	network 24:19 28:9	notional 151:21	16:25 17:2 21:7,16	onwards 212:15
214:22	myself 5:6 74:24	32:9	notionally 102:24	22:19,23 23:12,19	<b>Opcom</b> 112:10
morning 1:3,8,9 15:12	83:21 94:5 212:17	never 73:12 107:8	103:3,14 104:3	23:20 25:6,9,13,17	open 23:15 41:5 113:1
15:13 50:17 51:7	MÍNGUEZ 1:22	110:5 121:15	NPV 57:15	25:21,23 26:2,6,12	171:8
66:4,4 87:25 88:3,7		188:18	NS 13:24	26:18 27:3,5,8,11	opening 210:20
97:22 125:21 127:18 130:15	<u> </u>	new 3:25 23:23 32:10	nuanced 185:11,14,18	27:16 28:1,19 29:3	operate 182:8
213:20 214:22	nail 211:10	59:9,14 66:8,16 91:16 148:20	number 2:5,9,15,20 2:25 8:14 10:25	31:16,18,20 32:1,7 33:7,9,13 34:25	operates 45:3 operating 67:12
most 11:13,15 12:10	name 5:6 15:23 97:22	176:12 179:8,12	31:3 58:13 60:15	35:4,12 36:10 37:24	159:23
53:25 58:2,3 76:15	157:11	210:22	63:23 64:4 66:22,24	38:16 41:7 42:19	operational 36:23
83:25 84:6 88:21	nappe 88:25 89:1,1,4	Newing 2:3 3:13,23	70:17 82:23 109:17	44:9 45:19 46:16	37:6
89:25 92:25 93:10	89:5,7,13,19,19	4:5 3:16 50:12,13	110:18 111:9 112:6	50:9 55:23 66:11,14	operator 29:21 82:14
95:6 113:20 114:10	90:5,8,21 93:22	50:16 51:17 54:7	123:12 128:11,11	67:1,8,18 68:1,9,19	operators 30:8 34:9
119:4 128:13	99:7,12,19,20,21,25 100:9,13,15 101:2,3	55:9,12,19 83:12,13	134:24 173:22	69:1 70:8 72:15	opinion 46:24 89:17
129:11 156:12	116:5,21,23 117:5,9	86:13 97:19,21,23	175:5 179:11 182:2	74:6 75:3,15 77:2,7	95:4 104:12 105:8
168:20	117:15,22,23 118:3	124:9 125:4 141:1	190:17 199:16,25	81:7,9 82:24 98:8	122:15 140:24
mostly 73:8 88:25	119:12 126:5,9,13	143:22 144:2,7	210:10	99:14 100:23	145:16 148:21
most-likely 19:1	127:5,8,17 129:24	157:7,9,11 176:14	numbered 210:23	102:17 107:20	160:4,5,24 178:9
Mountains 88:14	nappes 88:16 89:12,16	178:21 180:7	numbers 68:14 85:22	117:20 135:1	179:25 186:15
mouth 141:23	89:18 90:1,6,17,21	186:17 199:24	112:13 134:19	142:24 145:19	191:13 192:13
move 12:20 33:15	93:14,22,23,24 94:1	205:11 207:4	138:1,4,7 147:21	160:15 163:15	198:11,13
46:16 58:18 78:22	115:16 116:1	214:17 215:1,5,9,16	154:11 166:20	166:22 169:9	opinions 162:3 171:23
79:3,25 85:2,3,5	117:13 118:24	next 18:23 32:6 47:3	175:10 176:14	176:25 181:11	opportunity 96:11
86:10,13 147:21	124:20	55:11 86:11 107:14	199:18 202:10,15	182:16 190:22	136:1 142:5 147:9
185:1	national 29:17	108:19 115:19	202:19 205:7,8,10	207:13 214:13	154:23,23 199:5
moved 146:25	naturally 159:10	116:4 135:12 139:1	205:13 206:19	old 113:9 122:24	opposed 48:15,18
moving 43:5 44:10	nature 70:11 157:24	143:21 148:10	numerous 206:9	123:17	152:10
84:13 88:19 90:25	198:23	153:10 159:25		older 113:25 126:5,9	optimistically 191:1
149:15 Mar: 2:45 1:67 0 2:15	near 28:18 128:10	171:3	0	126:11	option 29:20 34:10,11
Moy 3:4,5 1:6,7,9 3:15	nearly 97:9	nice 13:23	objection 215:6	oldest 10:1	61:19
3:18,20,21,23 4:1,3	necessarily 71:22 85:8	NICOLE 2:15	objective 142:15	Ol'ka 21:10 29:22	options 29:5
4:5,9,14,19,25 5:3,4	111:19 114:13,19	nine 95:10 163:21	167:19	103:9,14,17,23	oral 1:14 211:9 order 28:21,23 58:20
5:6 14:8,11 15:12	121:13 123:12	164:3,6 165:25	objectivity 142:10	104:2 139:4 211:16	,
15:18 23:7 26:22	126:18 153:17	188:21 NIOC 155:6	observation 102:8	<b>OMV</b> 14:7,12 <b>once</b> 6:24 7:1 28:24	67:24 79:24 119:7 164:3 177:25 211:1
32:16 40:23 50:17 54:25 55:2 57:12	154:14 174:18	none 210:15,16	observed 8:12 15:1	53:5 63:3 130:6	164:3 177:25 211:1 orders 2:22
58:5 63:2 75:23,24	necessary 25:15 47:12	none 210:15,16 nonetheless 104:4	obtain 35:9 176:20	ones 20:22 33:15 38:6	organise 205:6
76:18 96:5 127:18	47:20 55:22 147:21	117:15	177:12 179:17	47:16 64:15 73:25	organised 145:15
128:11 129:1	202:5	non-controversial	181:2,5	47:16 64:15 73:25 89:6,25 97:14	organised 145:15 orient 25:2
120.11 127.1	need 13:25 15:21	non-controversial	obtained 11:9	07.0,23 77.14	011CHL 23.2

Anne-Marie Stallard for Trevor McGowan Page 11

#### Discovery Global LLC -v- Slovak Republic ICSID Case No. ARB/21/51

# Tuesday, 6 February 2024

oriented 31:7	over 3:10 4:9 11:19	208:1	path 25:1	35:9	21:23,25 22:17,24
origin 64:8	12:18,24 14:9 19:13	Palomar 178:22 179:7	patient 87:16,17	permitting 13:21	22:25 25:18 29:18
original 23:25 119:3	36:4 49:25 58:11	180:11	Patton 2:9,9,10,10,11	person 145:24 191:4,6	34:5,20 35:18,22
150:1	70:4 77:24 88:16	panel 58:17	2:11,12	personal 15:2 61:7	43:18 46:6,9,10,12
ORR 147:17 148:18	92:22 96:4 97:10	paper 50:23 189:21	Paul 174:11	180:23 181:9	46:13 49:1,7 50:6
149:3,9,17 153:22	109:20 113:6	201:10 202:20	Pause 6:23 24:11	personally 69:12	55:11
162:10 167:25	119:20 121:19	203:2,6	37:25 40:8 45:12	107:15 140:13	planning 22:20 26:3
168:16 170:10	122:17,18 125:13	papers 18:9	69:1 87:18,20 98:6	179:13,18,25	132:2
176:12 182:16	130:22 135:12	paperwork 43:7	107:1 140:25 141:1	180:10,13,17	plans 6:6 22:21 43:8
183:9 186:17 187:8	148:19 163:20	paragraph 17:2,9	179:4 191:22	184:11	plateau 32:5,8 33:4
187:10,12	175:5 192:2 201:24	18:23 23:18,22 24:6	pay 81:25 82:8 156:1	person's 40:2,5 44:14	play 148:5
<b>ORR's</b> 148:25	212:11	24:13,15 31:25 32:2	156:15 178:10	44:17,19,23 45:3,5	please 4:17 5:25 9:22
other 1:13 2:22 11:25	overall 70:2 85:3	46:17 47:4 48:13	182:8 206:24	perspective 152:2	13:2,7 15:8 32:4
15:1 16:6 28:14	overcome 49:9 60:22	53:13,15,17 68:17	paying 61:10 148:19	pessimistic 203:14	36:19 41:4 42:18
29:5 33:14 49:17,19	overestimated 95:3,4	70:17,19 71:7 72:17	174:19,20 175:2,3	petition 170:22	45:15 55:24 56:12
51:3 54:22,22 60:17	overlie 89:8 94:20	73:13,20,25 74:10	payment 154:15 206:8	PETRA 2:13	56:19 66:5 72:17
63:24 65:2 78:16	overly 142:19	75:15 76:20 98:3	206:10,11 208:4	petroleum 5:16 38:22	79:12 97:25 98:7
80:10 81:11,11	overlying 88:20 93:6	100:24 102:17,20	payments 174:14	113:17 114:20	99:15 106:22
88:17 93:4,6 94:2	override 88:17	103:6 107:2,14	pays 175:16	152:21	109:14 112:23
94:20,21,24 100:14	overriding 58:22 60:2	108:17,25 109:16	<b>PDF</b> 45:18 72:8,18	PGNiG 6:19 10:20	115:13 119:13
101:20 118:18,23	60:5,22 61:15 79:15	119:13 124:23	81:9 98:2,7 99:15	11:6	123:8 124:10 134:7
124:12 130:13	147:15	138:20 139:1,11	102:18 106:23	PHAROAH 2:5	134:8,10 145:3
132:4 138:14 145:4	overspeaking 51:4	140:10 154:7	107:2 109:15	phase 35:25	146:19 148:10
145:13,15,22 148:5	own 61:9 106:9,20	159:17,25 169:13	112:24 113:3	PHILIPPE 1:12	159:14 164:22
148:22,25 158:10	107:6 111:21	170:19,20,23 171:3	115:14 119:14	phone 28:21,23	166:22 169:10,12
162:24 170:17	133:11 158:6	180:9 191:22	124:11,12 130:19	photographs 54:14	174:5 179:4 180:7
171:18 172:14,21	204:12	203:19 204:11	134:10 138:20	Phrasing 143:2	189:20 191:21
173:10,16 175:8,17	owned 169:16 187:1	207:14,15 209:7	174:6 176:25	pick 158:3	199:17 201:19
175:19 176:5 179:8	187:11	paragraphs 131:19	181:11	picture 65:17 85:3	203:20 205:16
180:13,17 182:25	owner 69:8,19 81:23	160:19	peak 9:16 12:8	piece 59:9 99:5	plenty 144:4 199:5
187:25 193:16	81:23 102:11	parameters 90:4	PEKAR 2:9	pieces 59:14 80:10	plot 9:21 10:2,4,11
194:20 196:18,21	153:13 168:24	126:22	pence 190:8,23,24	PIETRO 2:4	11:7,8,9,10 93:13
196:23,23 203:10	ownership 149:1	Pardon 123:9	penetrating 8:21	<b>PIIP</b> 17:16	plots 9:14,18 11:4
211:7,11 212:6	157:2	part 5:8 16:21 24:17	pennies 190:7	<b>Pilawa</b> 2:11 3:6,18	plotted 97:5 123:5
213:25 214:19	owns 187:16	37:18,22 38:2 48:12	people 51:3 130:13	4:11 15:6,7,10,14	plotting 11:17 97:12
215:15	o'clock 1:4	70:2,22 71:5 76:1,3	167:18 171:24	16:2 26:21 34:19	121:24
others 95:13		76:5,12 79:25 99:21	173:10	37:14 38:12 44:5,7	plus 88:5 138:2,2,2
otherwise 165:14,22	P	100:12 101:17	per 9:12,17,21 11:23	50:9 55:5,8,15	155:24 156:5,7
ourselves 210:5 214:22	pace 96:16 208:25	105:16 106:3	12:13 64:14 65:19	65:25 66:2 79:14	<b>pm</b> 141:9 144:9,10,11
	package 70:2	111:23 119:1	74:11,25 95:20,22	83:10 86:12 141:5	146:20 157:8 207:5
out 6:1 12:5 18:3	page 3:2 17:3 23:15	122:11 128:17	128:3 145:24	144:8 207:6,18 <b>Pilawa's</b> 51:19	207:21 215:18
20:20 29:10 36:17 37:22 40:5,7 42:23	24:14,25 31:25 32:6	141:18 148:15 169:1 207:9,23	151:11,16,20,23 152:13,16 189:25	<b>pink</b> 89:3 116:22	<b>point</b> 5:20 6:8 12:23 13:9 26:8 27:19
53:7 76:12 90:22	35:14,16 45:13,18	participants 167:20	190:3,16 195:17,20	pink 89:5 110:22 pinky-purple 91:2	32:23 33:1 34:16
92:15 98:24 99:3,21	47:3,4 53:16 70:17	particular 3:10 47:2	200:17	pipeline 23:24 24:1,16	35:8 40:6 43:2
	70:18,24 72:8,17,18	-	percentage 178:12		
102:5 110:17,21 113:5 115:11	81:9,11 98:1,2,7	49:20 59:7 76:20 98:25 100:17,22	perception 59:5,7	24:19,22 25:4,7,11 25:15,17 28:3,6,24	52:25 59:7 60:17 64:7 66:8 76:9
119:12 127:7 128:2	99:15 100:24	102:13 130:25	85:14 142:3,17	29:3,10,25 30:4,6	78:23 80:14 90:7
132:23 133:12,14	102:18,19 106:23	133:23 163:17	perfect 32:1	30:13,20,23 32:13	98:8,22 102:15
135:9 137:25 138:1	106:24,25 107:2	195:7 202:19	perform 125:17	33:5,11 34:8	110:15,20 111:4,11
138:10 140:9	109:15,20 112:23	particularly 108:22	139:16 158:21	pipelines 34:5 35:4	111:13 115:21,23
141:14 155:7,8	115:14,14,19 116:4	167:6	196:2	49:3,4,24	118:21 122:1 123:9
159:2 163:21	119:14,15 124:11	parties 2:5,11,15,20	performance 9:11	<b>place</b> 25:14 36:10	133:7 158:4 160:1
166:11 169:5,18	130:19,20,22	32:17 82:9 156:9	12:19 14:24 123:6	41:17 46:21 47:7,22	163:16 164:2
170:1,23 171:18	134:10 135:12,13	212:13	181:4	47:22 52:11 82:10	165:24 178:3,6
170:1,23 171:18	138:20,21 139:1	partly 85:9 113:16	performances 124:25	98:17 112:19 114:4	182:25 185:4,25
177:1,23 180:1,16	146:9 159:14,17	128:5	performed 161:3	114:11,13 143:11	186:11 211:15
184:8 192:3 193:24	169:10,12 170:19	partner 178:23	196:5,7 197:15	162:13,19 164:3,11	212:14 213:4,25
199:14 200:21	171:3 174:6 176:25 179:3 180:7 181:11	parts 26:11 31:5 49:18	performing 198:9	164:17 165:2,10,16	pointing 175:10 181:9
204:7	181:24 189:24	49:19 99:20 127:2,2	perhaps 2:4 83:4	166:3 167:6 168:13	184:8,10,19,21
outcome 58:2 95:6	191:22 192:2	party 2:5,6 2:24	123:23 208:12	187:19 188:1,6,21	185:12
outline 19:3 56:24	201:20 203:20	party 2.3,6 2.21 pass 153:3	period 91:17 96:16	188:25 189:9 193:2	points 68:20 79:21,22
89:3 91:2	207:14 212:14	passage 167:10	148:20 168:25	193:9,11 194:13	80:5,6,13 85:2 98:4
outlined 116:22	pages 192:2 214:9	passive 81:25	permeability 6:16 7:5	placed 82:19 163:6	131:1 160:9 176:5
outlines 90:15		past 105:9 112:21	7:18	181:12	209:2 210:14
output 95:5,8 106:17	paid 149:24 153:21,22 154:14 163:11 13	147:3	permissions 63:4	placing 81:13 163:6	poking 99:21
output 95:5,8 106:17 outside 47:13 139:20	154:14 163:11,13 174:2,15,24 176:5		<b>permissions</b> 63:4 <b>permits</b> 16:6 25:15	<b>placing</b> 81:13 163:6 <b>plan</b> 20:14,23 21:18	<b>poking</b> 99:21 <b>Poland</b> 89:15 90:18

Anne-Marie Stallard for Trevor McGowan

Page 12

93:14 97:6 116:5 119:11,19 120:22 121:1.6.18.24 125:14 127:12,17 129:11,25 **Poland-Slovakia** 32:25 **Poland-Slovakian** 32:10.14 Polish 6:18 8:12 9:11 9:15,22 10:13,18 11:6 14:21,24 90:17 97:6 115:16 119:21 120:3,5 122:16,23 124:19 poor 93:8 113:10 poorer 126:21 poorly 92:19 porosity 90:4 portfolio 51:1 portions 145:14 Poruba 21:10,14 92:8 103:9 position 53:11 62:1 82:10 101:21,25 103:12 119:4 160:15,18 165:2,8 168:4 170:11,13,25 173:22 176:16 181:16 183:13,17 184:3 188:8 192:3 193:6.10 positioned 148:24 positions 210:22 positive 117:25 possession 168:12 170.6 possibility 25:24 possible 8:17 31:21 55:6 62:22 155:17 160:13 173:7 189.17possibly 171:9 post 11:12 178:25 post-hearing 1:14 2:1 2:6.11 213:20 214.20potential 24:17 25:6 88:9 93:20 96:2 99:7,17 100:3 113:19 190:15 191.23 potentially 94:20 103:20 163:21 165:2 189:14 193:25 power 14:1 29:6,7,13 29:16 30:12 34:10 52:1 powerful 11:8 preceding 3:1 74:1 predict 83:2 prefer 1:17 preferred 84:17 preliminary 16:19 27:18,21 37:11 48:7 140:3,5 211:13

preparation 16:21 36:7 37:23 38:3 214.23 preparatory 38:9 prepare 36:16 prepared 52:13 109:19 138:22 146:25 192:23 204:20 205:2 preparing 38:13 52:15 71:8,18,19 215:2 presence 5:23,23 6:2 8:20 present 5:25 13:13 18:9 57:14 58:8 61:2 84:22 125:23 130:14 presentation 3:5,17 3:22 4:3 4:23 5:3,20 6:3 15:16,21 38:25 56:18,21 58:13 65:20.21 66:16 68:21 79:17 85:1 87:14,24 88:3 92:1 92:4 110:9,11,12,14 111:7 115:12,24 117:2 124:16 125:20 127:18,25 129:1 145:11 146:21 156:18 199:4,13 203:24 presentations 110:21 111:1,4,14 112:1,9 213:13 presented 6:23 13:18 14:13 44:11 57:11 58.5 66.21 75.13 77:18 85:22 107:8 203:6 210:20 presenting 130:13 presents 11:2 press 71:15 pressure 7:4 8:1,3,4,7 8:11,23 9:1 126:17 126:19,21 pressures 8:9,25 12:1 presumably 183:25 presume 29:2 presumed 38:8 pretty 28:15 62:8 previous 69:8,19 70:24 72:19 81:23 81:23 82:14 88:17 110:19,21 pre-1946 11:14,17 12:3.19 128:1 price 77:24 85:4,13 147:24 166:18 167:16,20 171:4,6 189:25 190:23 prices 62:22 77:19 166:24 167:10,22 primary 91:3 99:4 principal 3:3 principally 2:6 principles 6:14 prior 38:9 54:17 58:18

162:6,18,19 182:21 186:14 187:21 188.23 193.24 private 50:1,3,4 PRMS 38:23 39:2,5,7 39:10,13 40:9,18,24 41:2,5,20 42:1,5,11 44:21 45:16 46:7 48:14 73:18 91:21 107:8 probabilistic 57:21 probability 44:2 57:24 84:5.7.8 probably 16:11 26:9 28:18 92:19 132:3 143:22,23 175:13 problem 37:14 79:14 problems 93:5 procedural 3:3 4:13 2:22 213:18,20 proceed 56:19 62:9 83:6 192:1 212:9 proceeded 83:23,23 proceedings 92:17 211:3 proceeds 149:12,21,23 150:1.5 process 10:21,25 17:23 18:1,5,8,12 19:24 37:23 42:21 50:18,21,21 51:2 52:17 59:12 62:5 96:14 107:9,21 213:25 processed 131:12 processing 28:13 60:13 131:7 165:1 169:4,17,19 170:4 produce 12:1 29:4 33:3 51:21 75:25 84:24 95:25 123:13 123.18 produced 1:24 9:12 9:21 10:5 12:4 13:20 17:12,22 19:16 32:10 43:10 49:17 50:24 75:24 79:7 84:2 113:22 123:5 127:7,7 producing 16:19 34:20 48:7,8 49:2 49:23 123:17 127:15 product 20:17 21:17 49:23 67:20 production 6:5,13,25 8:3,24 11:7,11,11 11:14,16 12:5,8,10 12:17 13:25 14:20 19:1 22:1 26:25 30:3 49:16 51:16 93:14 95:15 122:19 122:25 123:7,10,25 124:4 126:15 127:3 127:4,9,16 128:2,13 128:16.18 129:15 129:16

Discovery Global LLC -v- Slovak Republic

ICSID Case No. ARB/21/51

productivity 11:23 professional 73:11 **Professor** 1:11.12 212:12,21 213:7,8 214:5,6,7,9 profile 191:11 profiles 6:5,13 14:20 19.2profits 155:8,10 programme 21:9 23:2 23:10 25:25 26:4 49:20 83:24 84:1 214.2prohibition 210:13 prohibits 72:24 73:4 project 16:8 31:1 35:10 36:24 38:17 39:16,18,23 46:22 47:20 48:4,16 49:21 67:13,17,17,22,23 68:8,23 108:3 147:14 149:1 150:5 150:13 151:8,13,17 151:24 152:19,24 153:13,15,25 156:16 158:21 192:12 193:5 194:14 196:10 projections 182:3 projects 5:14 67:14,15 67:22 73:8,9,11 107:17 178:24 project's 153:12 PROKOPOVÁ 2:10 promise 215:2 promotes 5:17 proof 182:25 184:6 206:11 proofs 154:15 206:8 206:10 properly 52:1 properties 7:5 property 6:15 165:7 proposal 2:14 propose 56:24 57:17 74:22 proposed 24:21 35:21 49:10 58:23 124:20 128:18 proposition 142:20 prospect 6:13 21:23 21:24 23:12.13.21 29:12,23 102:4,10 103:4 104:10 109:7 111:17 134:12,14 134:23,25 135:4,14 135:22,25 136:7,9 136:25 137:13,17 137:22 140:21 190:4,15 prospective 40:7 42:20 45:9 59:1 63:16,21 64:3 70:25 71:3 72:13,24 73:5 77:5 85:12 90:1 139:3 142:21 146:16,17 150:15

151:6,7,8,11 152:20 152:22,24 161:9,13 192.12 193.5 9 16 194:5,14 195:14,18 195:21,22 196:8,15 197:8,11 198:8,14 198:15,16,23 200:9 200:11.25 201:6 203:10 207:10 prospectivity 62:3,18 141:18 143:4 provide 147:10 149:10 provided 4:11 44:1 46:24 47:11,22 66:23 90:3 92:13 105:13 108:2 provides 30:14 providing 74:18 102:5 public 50:1 71:9,18,19 publicly 175:12,17 published 189:22 pull 24:4,5 31:2,24 45:10,15 72:7 81:9 138:23 207:13 pumped 33:21 purchased 69:6,15,17 70:3 149:20 150:4 168:1 purchasing 149:12 purely 75:10 purple 10:12 90:14 purported 166:15 purporting 110:21 purpose 44:20 125:11 136:9 158:15,16 160:20 161:18,20 195.8 purposes 32:16 71:14 71:18 138:17 158:13,18 159:3 168:18 172:3 202.13pursued 83:8 pursuing 83:7 102:6 put 33:10 44:9 52:21 65:4 70:16 82:23 96:5 112:4.13 113:25 114:11,12 128:9 130:23 132:7 135:20,25 136:24 137:21 138:9 141:23 181:1 185:8 203:15,17 205:7,8 205:14 206:15 209:12 putting 64:7 83:6 111:7 185:19.23 P50 6:9 18:1,4,14 19:25 20:2,6 50:18 50:20 58:2,4 64:16 76:14.17 83:24 84:5 95:6 101:18 105:16 105:17,20 106:4,6 106:10,14,16 201:23 202:1

Q

Tuesday, 6 February 2024

QC 10:24 quadrant 88:12 qualified 70:12 qualify 45:1 91:21 92:20 105:23 quality 5:23 83:1 93:8 115:7 quantification 189:15 quantified 79:22 quantify 82:22 quantities 27:8,11 85:16.19 quantity 50:25 85:23 quantum 60:8 210:17 question 16:24 17:10 42:8 52:8 54:8,23 81:22 86:3 108:15 141:15,22 145:17 145:24 157:25 160:17,22 163:23 164:15 174:21 175:20.22 183:16 185:2,5 206:5,14,14 206:18 207:7 209:5 209:5,12 212:16 questions 3:7,8,9,10 3:11,12,14,15,19,20 3:24,25 4:6,7,8,9,10 4:12 15:14 50:12,13 51:6,17,19 52:4,5,7 54:22 58:16 83:11 83:13,14,16 86:7 97:23 141:2,4,5,7 141:10 143:14 145:12 157:12 205:11 207:4,9,19 207:22,23 210:6,7 212:18 quick 58:25 59:23 quickly 13:11 60:21 quite 16:24 19:18 67:15 110:8 118:17 140:22 154:4 180:3 190:4,25 210:7 quotation 72:19 193:13 quote 71:12 quoted 77:21,22 137:21 R RAF 65:1 201:24 202:1 raise 61:4,9 183:3,14 183:20 214:3,18 215:8 raised 80:14 148:20 176:7,10 179:22 181:14 184:2 raising 181:7 197:4 range 7:14,16 8:25 10:17 120:21 121:1 128:24 132:25 ranges 9:17 rapid 11:11 rapidly 13:19 rate 12:2 33:4 96:18

Anne-Marie Stallard for Trevor McGowan Page 13

#### Discovery Global LLC -v- Slovak Republic ICSID Case No. ARB/21/51

Tuesday, 6 February 2024

124:4 147:11	receivii
155:22 156:6,11,12	155:
rates 7:6 8:5 9:16 32:5 32:8 33:4	recent 91:7
rather 89:18 93:11	recogni
96:23 107:13	101:
108:18 134:17	recolled
167:2 187:21 191:11	<b>recomm</b> 74:22
ratio 64:13 150:22	record
152:9 200:17	86:24
rational 173:6,13,15	recordi
173:18 ratios 151:20	recover 41:9
<b>RD-002</b> 31:4	recover
<b>RD-2</b> 31:4	128:
re 3:3 4:13	recover
reach 147:4 151:25 reached 2:1 39:18	recover recover
65:10	129:1
reaching 156:20 193:3	red 11:
read 4:18 26:10,13,16	91:2
32:4 37:10,25 56:12 72:11 87:8 132:17	redacti reduce
145:4 146:14	reduce
157:14 170:20,21	155:
175:14 180:20	reducir
reading 61:5 180:15 ready 1:4,6 17:7 86:22	187:: red-dot
104:9 107:7 144:12	refer 1
144:13	referen
real 24:20 171:7 176:8	57:1
realistic 7:23 86:18 reality 121:3	90:7 139:
really 17:15 18:10	139:
26:17 65:12 89:23	214:
96:13 116:1 178:13	referen
180:3,24 183:1 184:4 197:12	90:11 92:11
203:14	92.1
reason 2:11 3:3 4:6	136:
22:3 33:2 38:20	referen
48:20,24 93:15 99:2 120:9 136:22 156:2	referen referre
167:5 168:11	referri
175:21 181:15,15	refers 1
181:20,22 205:1	reflect
211:24 reasonable 12:12,19	96:1 reflecte
43:19 102:8	48:14
reasonably 58:1	167:
reasons 2:7 65:22	reflecti
85:17,18 173:22,23 175:5,8 176:22,24	reflects refresh
rebut 199:12	refusal
recall 21:14,15 24:23	regard
100:1,5 110:10	regardi
127:20,21 137:10 137:12 167:21	58:1 regard
174:3 195:24 196:3	region
202:15 204:16,17	49:1
207:16	regular
recap 12:3 received 4:22 59:18	regulat regulat
66:15 68:22 87:13	138:
149:23 150:1 205:7	reinfor
205:13	reinter

ng 2:17 149:25 ·16 14:6,12 90:17 ise 1:23 68:15 :21 ct 188:9 mend 71:2 32:4 72:11 4 87:9 188:15 ing 213:23 rable 40:13 196:12.17 red 124:19 :1 129:12 ries 7:7 10:19 ring 95:22 ry 10:15 65:6 :12 32:21,23 25 ions 2:21 51:15 94:22 ed 10:25 96:3 11,11,12 ng 128:11 :20 tted 25:6 84:2 198:22 nce 30:25 32:2 68:15 72:1 126:6 137:18 :14 156:6,25 8 204:6,11 nced 15:23 3 91:11 92:3,8 7,23 94:4,12 107:16 130:18 :20 nces 63:23 ncing 109:3 ed 100:2 109:18 ng 80:22 195:6 109:24 159:18 15:1.2 59:15 1 174:18 ed 25:18,24 4 125:19 :12 ion 180:24 s 85:13 178:19 99:14 210:25 171:14 ling 26:14 48:6 8,19 80:14,15 less 143:5 11:8 49:14,15 9.21 98:25 rly 206:1 tions 16:10,12 tory 16:3 47:7 :16 rce 89:23 pretation

70:14 reinterpreted 70:9 82:18 rejected 209:22 Rejoinder 209:7 relate 63:19 125:22 related 123:6 relation 90:13 97:2 101:20 178:23 179:11 212:13,15 212:24 relationship 64:10 relative 17:25 90:9 93:14 151:12 197:20 relatively 55:4 releases 71:15 relevant 89:25 93:24 116:11 156:14 184:10,21,22 185:15 187:12 191:12.13 202:24 reliability 205:17 206:3,13 207:24 208:9 reliable 154:11 206:18 reliance 194:23 relied 174:23 relief 209:7 210:1 rely 64:21 72:2 80:2,5 80:6 138:15 163:10 172:24 relying 80:8 remaining 40:13 41:13 92:20 105:24 152:7 remember 16:1 54:14 55:25 66:6 99:13 125:24 126:1 131:5 140:2 177:17 193:13 199:19 207.11remind 184:13 199:17 205:16 removal 126:10 remove 35:18 removed 128:6 152:4 152:6 repaid 178:24 179:7,7 180:11 repeat 41:4 146:15 160:17 164:15 211:19 repeating 186:7 **rephrase** 108:15 Reply 154:24 reported 90:24 113:13 113:15 reporting 71:9,13,18 71:19 72:20,21 73:17 128:12 reports 4:11 7:8,20 15:19,24 16:21 19:15 41:24 42:8 56:6 57:8 66:11 69:24 75:25 80:21 84:25 87:4 144:22

145:14 154:5,9 157:14 158:5 170:14 172:19 204:1,6,9,15 represent 8:10 20:5 . 111:1 155:10 171:7 representative 2:5,6 8:7 9:1 19:1 121:10 121:13 148:11 represents 7:21 12:24 31:13 39:2 79:23 124:18 reprocess 83:3 reprocessed 70:9 82:18 reprocessing 70:14 82:25 83:3,9 165:5 165:20 reproduced 134:20 Republic 1:17 2:12,13 2:13 reputable 204:22,24 request 209:7,17,18 209:20,22,25 210:1 requesting 156:9 requests 209:11 require 58:17 167:13 180:23 required 13:8 16:19 28:13 35:10 36:16 48:7 200:19 requirement 46:4 47:5 48:25 requirements 42:6 43:14 104:25 requires 30:23 201:7 209.15 requiring 49:10 Research 189:21 reserve 39:12 65:1 78:24 85:16 202:8 reserved 213:10 reserves 39:15,20,22 39:25 40:8,12,15,19 41:2,21,24 42:9,15 43:5.10 44:12.14.18 63:2,6,10 64:11 73:21,24,25 75:17 75:19,21,23,25 76:22,24 78:6,10,13 78:17,21 79:2 83:19 84:9.12 85:9.12.20 85:24 150:14,18 151:16,17,23 152:8 152:10,12,15,18,21 152:23 192:9 194:22 195:14 196:24 197:1 199:8 200:12,16,18 201:1 203:11 reserves-based 45:2 reservoir 5:7,17,22 6:14,16 7:2,14 8:7 8:11 9:1 52:9 57:12 90:4 94:13 115:2 126:20,21 136:25 137:4

reservoirs 7:15,18 134:15 135:3,16,24 135:24 136:4,6,11 137:8,9 residual 183:4 Resolution 1:5 resolved 14:3 resolving 47:8 48:12 resort 177:12 resource 5:17 38:23 39:12 42:16 93:20 95:2 115:20 116:15 116:17,24 117:16 resources 3:22 5:12 40:8 42:15,20 43:3 43:4 58:23 59:1 63:15.17.21 64:3.15 70:25 71:3 72:14,25 73:5 74:23 76:2,17 77:5 84:12 85:12,13 139:3 146:16,17 150:15.23.24.25 151:6,9,10,11 152:10,20,22,25 161:10,13 192:12 193:5,9,16 194:5,15 195:14.19.21.22 196:9,9,10,16 197:8 197:12 198:8,15,23 200:9,11,25 201:6 207:11 respect 138:14 171:4 187:25 213:25 respectively 148:1 149:19 respond 2:23 155:3 160.5Respondent 1:18 2:8 209:6 212:24 213:3 213:17 215:12 Respondent's 31:3 58:20 60:8,9 61:21 77:2,13 212:20,21 responding 71:1 response 160:14 responsibility 76:5 responsible 5:9,11 rest 61:25 99:25 100:13,15 102:23 139:6,19 210:5 result 8:24 9:23 83:25 116:15 119:2,6,8,9 123:10 130:10 150:4 151:2 152:14 190:19 197:21 210:23 resulted 164:12,18 187:4,20 resulting 8:24 14:19 results 12:25 83:2 147:24 149:17 152:12 resume 143:19 144:6 retained 60:5 return 62:10 revealed 10:21 revenue 51:11

revenues 27:5 29:1 147:16,19 148:2,13 148.15 149.5 revert 1:21 3:11 reverting 150:2 review 70:7,8 98:19 106:7 202:13,24 204:18 reviewed 70:6 98:21 105:24 reviewing 88:9 139:19 revise 59:10 reward 142:9,17 re-direct 3:13 4:11 50:12,16 141:4,5 207:6,7 **Richard** 4:2 144:15,18 rid 30:13 51:13 82:2 rig 13:5 36:21 52:11 52:13 53:3,6 54:15 54:18,19 rights 37:20 38:1,2 169:14 right-hand 7:24 10:4 11:18 32:24 35:7 88:13 117:3 132:22 181:24 190:20 rigorous 6:10 9:10 14:23 18:13 rigs 42:24 52:12 risk 142:3,9,17,22 143:6 156:14,14 182:1,7 183:16 risked 65:2 76:2 196:6 196:19,25 197:5,5,6 197:12.21.24 198.21 200.22 risks 106:12 156:16 182:12 River 2:15 60:7 74:17 144:20 road 54:15 211:17,18 211:22 212:1 robust 14:19 19:24 109:10 **Rockflow** 3:22.23 56:4 57:12 93:17 97:13 124:21 129:20 Rockflow's 93:20 110:6,16,18 125:5 rocks 5:24 88:23 role 70:7 Romanian 14:5 room 2:8 **ROSTISLAV** 2:9 rough 64:8 roughly 10:22 11:1 94:9 round 95:22 route 24:17,17 25:6 29:8 33:2 43:18

29.8 35.2 45.18 129:13 royalty 58:22 60:3,5 60:22 61:15 79:15 79:18 80:3,8 81:23 82:2,11,20 147:15

Anne-Marie Stallard for Trevor McGowan

Page 14

#### Discovery Global LLC -v- Slovak Republic ICSID Case No. ARB/21/51

Tuesday, 6 February 2024

		r	r		
148:2,6,12 171:7	says 36:2 46:5,7 47:5	Secondly 13:2	selecting 122:11	shareholders 176:13	121:5 122:2,3
185:17 208:5	53:24 72:25 74:10	Secretary 1:22	selection 17:23,25	179:23 181:8 183:4	143:22,24 159:24
RPS 94:11 130:18	75:15 107:13	section 53:2 72:8	18:6 20:7,8	183:21 184:6	similarity 92:6
131:2,4,16 132:23	159:20,25 177:3,6	99:16 118:8 127:6,8	sell 148:12 170:15	186:13	Simon 3:4 3:18,20 5:6
132:25 133:23	178:24 179:12	127:17 202:22	171:9 172:7,8 173:7	shares 190:12,16,17	simple 10:21 13:5 52:9
134:5,7 137:14,15	180:9 182:1 201:25	secure 16:7 39:23	173:10,10 184:15	shopped 183:11	137:10 175:4 209:5
137:21	208:13 209:7	60:20	seller 148:12,23 172:6	Shores 61:17,22	simplicity 163:16
rule 210:14 214:17	212:15	secured 46:21 61:6	selling 30:15 167:15	162:10,11,23	simply 38:8 47:15
ruled 211:20	scale 49:10	securing 38:2,13	185:21	163:17 187:3,25	54:13 118:5 120:12
rules 1:1 71:20 72:2	scenario 25:17 26:23	security 138:17	sense 1:21 85:25 96:14	188:4	121:3,23 122:13
214:14	30:17,19 44:10 45:4	see 1:4 10:16 24:14	117:19 118:21	short 4:24 6:3 13:20	126:10 137:10
<b>run</b> 19:24 88:3,6,8	57:6 67:18 95:23	31:22 32:22 37:24	142:6 171:8	14:4 50:13 55:4,17	140:23 142:21
95:4,7	152:15 186:22	43:24 45:21 56:18	sense-check 95:16	· · · · · ·	145:21 170:7
95:4,7 <b>Ruská</b> 21:10,14 103:9				55:21 86:10,20	
<b>Kuska</b> 21:10,14 105:9	187:1 192:22 193:1	64:7 70:24 72:4,9 81:7,14 88:18 89:4	sensible 111:8	shorten 26:9	174:18 178:2 184:3
	193:10,19 194:11	· · · · · · · · · · · · · · · · · · ·	sent 204:2,6	shortly 168:6	196:11 204:2 209:8
S	199:1,14 200:14,17	89:20 91:5 92:6	sentence 24:15 32:4	show 8:4 9:5 61:3 67:2	simulate 64:15
salaries 173:24 174:2	201:1,23 202:1	93:4,18 94:8 95:8	70:20 73:10 102:22	111:23 112:1	simulation 57:23 75:8
174:8,17	scenarios 20:4	97:7,14 98:8,13	separate 7:21 28:14	118:22 135:11	76:14
salary 174:14	schedule 6:7 35:21	99:16 100:24 101:5	67:23 68:3 134:16	147:1,3,5,8 173:9	simultaneously 28:2
sale 58:21 60:17,21	76:18	101:23 103:1	135:24 137:4,13	174:3 180:4	since 2:17 90:19
80:1,3,12 82:6	scheduled 213:16	107:11 108:8	separated 68:1	showed 61:6 124:15	101:13 114:5,9
148:15,18,24 170:9	schedules 6:21	109:20 112:8 116:4	separately 7:22 18:24	161:11 184:7,24	125:14 165:9,9
170:16 171:9,21	scheme 12:21 13:22	116:21 120:14	22:7	202:6	168:13 172:14
185:17 186:1,17	15:1 19:3,6 20:25	123:14,19 130:20	separation 28:17	showing 8:14 64:9	sincere 4:17,20 56:12
187:8,10,12	21:4,16 29:8 33:9	131:18 134:8,11,23	September 4:8,12,13	203:6	56:15 87:12 145:3,6
same 11:8 29:25 30:2	34:3,4 58:5 180:3	134:24 135:13,14	56:8 58:10	shown 8:16,18,22 11:4	145:10
31:21 45:14,14,25	schemes 6:21	136:13,17 137:15	sequence 22:7	11:12,21 14:20,24	single 8:2,19,20 12:23
62:8 73:1 76:3,10	scope 139:2	142:4 144:8 155:14	series 20:4 27:1 34:22	47:19 63:12 74:12	67:21 68:8 80:14
77:1 78:16 90:1	screen 7:19 11:4 12:21	155:15 159:17	49:22 88:6,15,19	88:11 154:24 155:4	sir 1:8 56:2 59:23
94:5,18 100:18	17:6 31:6 44:9	160:3,4 167:2	91:3,18 100:16	197:21 201:21	144:16
103:6 105:10,12	56:18 66:14 68:23	169:13,21 171:2,11	137:3	shows 9:21 11:9,10,18	site 29:4,10,19 36:7,16
116:13 118:1,6	98:6 159:16 169:11	177:2,4 179:5,5,11	serious 182:7	89:2 90:18 91:24	37:23 38:2 52:12
121:4,10 122:6	174:7 199:24	179:14,15 180:8	set 58:3,6 76:16	94:18 113:5,20	53:4 54:16,20
134:3,17 135:13,25	screens 24:8	182:1,21,22 189:22	110:21 113:5 121:6	114:24 121:1	142:20
149:17 152:3	scroll 24:13 136:13	190:1,3,10,12	121:7 122:13,14	134:14,22 156:19	sites 37:1 38:13 53:22
155:16 161:23	179:4 181:25	191:13 199:22	125:18 132:23	166:24 167:20	103:14,18,24 104:2
179:6 182:19 194:6	190:10	201:25 204:4 206:8	138:1 140:9 171:18	175:1 197:6	sitting 81:25 215:10
213:4	seal 5:23	213:25 215:14	172:14 193:24	shrinkage 165:13	situation 39:20 40:21
sample 121:20	sealing 7:25	seeing 54:14	214:15	Sicily 63:18	40:22,23 42:3,4
sampled 93:2	second 4:7,12 7:8 9:18	seek 99:24 138:14	sets 109:25 112:11	side 1:13 2:22 7:24	44:22,24 54:2
samples 121:10	10:3 11:21 14:5	209:10	166:11 170:23	10:4,11 11:5,18	148:17 173:8 175:6
-	18:9 22:13 34:7,11	seeking 109:16 110:4	177:1,23 192:3	32:24 35:7 81:11	175:24 180:5
San 58:22 60:2,3,4,4	35:13 38:7 46:16	177:13	setting 88:15,22 204:7	117:3 174:6 181:24	185:24 187:16
60:17,20,21 61:3,8	50:22 56:7 57:2	seeks 100:12	Settlement 1:2	190:10,20 212:7,24	206:16
61:12,15 69:8,11	58:12 59:19 64:21	seem 52:8	seven 43:5,17,25 44:8	214:19 215:6,9,13	six 12:24 152:7 183:15
79:15 80:3,9,18	67:3 68:10,14,17	seemed 119:4 139:22	45:21 110:6,8,13	sides 2:10	size 6:22 10:6,8,13
81:22 82:3,7,9	70:16,18 72:16	seems 77:13 128:12	168:22 192:3	signalled 4:7	14:13,15 43:16 94:3
146:13 147:16,17	79:25 87:5 95:10	178:15	196:22	<b>Signature</b> 2:3,4,4,5	97:5 116:10 119:20
148:15,24 149:1	96:22,25 103:22	seen 8:15 9:14 10:11	several 61:5 62:12	57:3	121:2,4,5 122:6
153:14,15 162:10	104:19 106:23,24	17:1 24:3 25:3	212:17	signed 163:3 188:10	123:15,22 124:1
167:24 168:8,15,24	106:25 112:25	31:10 43:20 71:21	shade 58:10	188:15	sized 116:14
169:1,25 170:22,24	115:13 123:8	73:12 85:1 89:22	shaded 8:1	significant 95:24	SKAF 2:15
173:1 174:9 178:23	124:10 129:2	97:2 100:7 114:24	shallow 12:10 13:11	96:20 98:10 121:1	slide 6:8,24 7:13,24
181:16 184:3	130:19 132:14	117:1 125:20 153:5	127:23 130:5	148:19 149:2 182:5	8:15,15 9:8,20
186:17	136:13 137:16	165:18 166:6,23,25	shallower 126:12	significantly 93:19,23	10:20 11:4 12:3,20
SANDS 1:12 212:12	138:19 146:7,10	171:1 180:16 183:3	127:2,22 128:1,14	129:14 166:19	13:17 14:11,18
212:21 213:8 214:5	154:7 159:13 160:6	194:1 201:9		129:14 166:19	15:17 56:23,23 57:2
214:9		seeps 9:25 114:22	128:17,20 129:3,10 129:12	signifies 39:18	· · · · ·
Sapphire 155:6	161:11 170:18 171:19 173:23	-	share 57:4 60:10	signing 205:9	57:2,7,19 58:9,22
satisfied 40:15		seismic 10:7 18:22		0 0	58:25 60:3,19 61:17
CON 66.14 140.20	174:11 177:22 178:21 180:8 181:1	69:18 82:18 91:4,8	62:11,22 64:16	Silesian 89:7,13,18,19	62:8,19 63:7 64:7
saw 66:14 148:20	• • • • • • • • • • • • • • • • • • •	91:16 93:8 107:17	77:19,25 85:13	90:5,8,21 93:22	64:20 65:16 66:5,6
166:8			147:20 149:13,14	116:21,23 117:5,22	66:16 67:2 88:6,7
166:8 saying 4:6 24:18 63:1	181:14,18 184:22	114:6 131:8 139:12	· · · · ·	110 0 107 5 0 10	00 11 00 2 22 00 11
166:8	181:14,18 184:22 186:21 191:19	139:23 165:1 169:5	149:21 150:2,20	118:2 126:5,8,13	88:11 89:2,22 90:16
166:8 <b>saying</b> 4:6 24:18 63:1	181:14,18 184:22 186:21 191:19 194:24 198:22	139:23 165:1 169:5 169:15	149:21 150:2,20 151:3 153:24	127:5,8,17	90:25 91:18 92:11
166:8 saying 4:6 24:18 63:1 65:12 73:14 77:11	181:14,18 184:22 186:21 191:19 194:24 198:22 201:17,19 202:4,14	139:23 165:1 169:5 169:15 select 58:1 150:12	149:21 150:2,20 151:3 153:24 186:18,20,23 187:4	127:5,8,17 similar 9:4,5,17 13:14	90:25 91:18 92:11 93:9 94:2 95:1,14
166:8 <b>saying</b> 4:6 24:18 63:1 65:12 73:14 77:11 78:12 79:6 106:2	181:14,18 184:22 186:21 191:19 194:24 198:22 201:17,19 202:4,14 202:17 203:20	139:23 165:1 169:5 169:15 select 58:1 150:12 selected 150:15 158:2	149:21 150:2,20 151:3 153:24 186:18,20,23 187:4 187:7,9,18 189:25	127:5,8,17 similar 9:4,5,17 13:14 16:11 64:20 65:16	90:25 91:18 92:11 93:9 94:2 95:1,14 96:4 97:1,15 147:1
166:8 saying 4:6 24:18 63:1 65:12 73:14 77:11 78:12 79:6 106:2 121:25 126:1 135:2	181:14,18 184:22 186:21 191:19 194:24 198:22 201:17,19 202:4,14	139:23 165:1 169:5 169:15 select 58:1 150:12	149:21 150:2,20 151:3 153:24 186:18,20,23 187:4	127:5,8,17 similar 9:4,5,17 13:14	90:25 91:18 92:11 93:9 94:2 95:1,14

Anne-Marie Stallard for Trevor McGowan Page 15

# Discovery Global LLC -v- Slovak Republic ICSID Case No. ARB/21/51

# Tuesday, 6 February 2024

Г					
149:7 150:7,8,11	176:17	southwards 88:16	starts 2:4 59:14	115:1	sums 174:19
151:2 152:2 153:5	some 10:1 26:11 28:8	sovereign 156:13	145:22	structures 10:8 17:24	sunk 146:23 147:8
153:10 154:23	28:13,16 30:8 31:22	so-called 75:25 77:18	state 17:9 42:15,16	18:21 100:3,8,10,13	153:9,11,19 154:2
155:21,24 156:17	33:1 37:1 38:5,8	<b>span</b> 122:18	71:7 72:2 140:23	100:15,19 101:8	203:19 205:18
197:21 199:17	40:1 50:23 51:6	SPE 50:22 201:10	157:14 160:1	107:6	207:24,25 208:14
208:11 213:13	55:20 60:13,14 70:9	202:20 203:1	203:21,25 212:3	study 16:25 24:7 62:6	superficial 105:24
slides 58:14 65:22	77:14 78:13 82:17	speak 53:13 86:2	stated 63:3 98:9 107:3	62:13 98:22.24 99:3	superimposed 110:11
66:15 86:14,15	90:11,17,20,21 91:4	142:16 150:9	139:24 160:18	99:6,24 100:7	supplied 6:20 9:13
146:23,25 148:8	92:6,6 93:9,16	speaking 16:5,13	176:16 193:6	131:14	10:20 158:5
199:18 213:14	95:12,17 97:23	31:12 39:25	statement 56:15 60:19	subject 2:12	supplier 154:14
215:2	108:4,9,24,24 109:4	speciality 107:19	71:11 87:11 145:6,9	subjective 142:7	supports 133:3
slightly 10:19 22:14	109:5 115:10,12	<b>specific</b> 16:9 21:25	154:3,7 169:10	subjectivity 142:11	suppose 118:19 142:3
Slovak 1:17 2:12,13	118:15 122:21,24	25:11 26:12 140:6	170:18 172:15	submissions 2:25	supposedly 184:14
2:13 10:11 16:2	128:8 142:12	164:21 180:22,23	182:7 205:8 213:24	26:10 210:8	sure 16:24 17:6 20:15
27:17 48:15	148:20 154:9,9	210:6,7,15	214:6	submitted 3:1 56:6	31:7,10 32:7 41:5
Slovakia 9:4 10:9	157:12 163:13	specifically 31:25	statements 4:16,20	58:10 87:4 144:22	42:17 54:5 68:17
14:14 16:8,9,12,18	166:1 175:8 176:14	35:14 42:5 45:15,18	26:14 56:11 145:2	154:5 158:8 166:13	69:4,14 77:11 82:12
21:4 32:25 47:18	178:23 181:9 187:5	47:18 49:13 57:9	204:12,15,18 205:2	204:1	100:10 121:22,23
49:3,5,14,18,19,21	188:21	66:18 67:19 71:25	205:22,22	subsequent 23:25	140:22 141:15
63:20 67:12 88:13	somebody 167:14	73:4 74:8 81:6	states 100:25 169:13	166:8	140:22 141:13
89:15 121:5 122:9	206:15	140:7 146:7 164:25	170:5 204:20	substance 212:9	172:16 174:21
153:21 156:15	someone 111:13	specifics 169:7	statistical 18:1,12	substantiate 203:22	178:16,17 184:3
Slovakian 5:25 6:17	140:20 164:14,19	specify 3:25	19:24 23:5 50:17	substantiation 155:23	192:17 212:10
7:11 8:9 10:7,18	165:3	speculative 197:7	95:5 106:17 136:2	subsurface 5:8 14:19	215:10
14:22,25 24:2 25:4	something 78:2 85:21	SPEE 5:15	statistically 20:20	115:9	surely 117:21 118:4
28:9,10 30:1,16,21	96:13 102:3,10	spending 111:11	status 61:12 161:12	succeed 33:11	177:24 195:9
			212:16	success 5:21 19:22	
33:21 34:13 57:4	114:11,11,12,14	spent 111:16 SPE_PPMS 72:4		42:22 57:11,22 59:4	surface 7:2 9:25 52:15
125:24 126:25 156:13	127:24 128:3 136:6 154:13 164:4	SPE-PRMS 72:4 73:15	steep 177:8,13 step 39:15 107:9,20	· · · · · · · · · · · · · · · · · · ·	52:18,20,23 53:6,8 54:1,16 88:24 91:11
	181:10 182:23			65:4 94:4,6,9,15,21	-
SLR 2:14,14 87:2		spoken 150:8	Stephen 1:11 2:9 1:22	94:23,24 96:7	101:3,4 114:23
107:4,13 108:22	185:10 187:3	SPP 32:9	steps 27:1 29:25 30:2 stick 214:14	117:14 131:1	140:1 surprising 26:13
small 10:6 33:8 34:2	188:14 214:18	spread 12:24		132:21 134:6,16	surprising 26:13
36:21 38:8 67:15	sometimes 83:3	spreadsheet 69:2,16	Sticking 72:16	135:7,17,21 136:5	177:18
118:13 120:10,22	141:14	76:4,6,11 125:9	still 1:24 9:2 13:25	136:10,24 137:16	surveys 69:24
123:17 159:22	somewhat 31:13	spudding 52:14	31:22 37:6 42:16	140:8,24 196:13,20	suspension 211:2
180:3 181:10 190:4	178:16 185:13	SPV 177:4	60:12 62:12 64:21	197:3 200:24 201:3	switch 86:15
199:24	somewhere 32:11,18	square 16:23	66:4 113:1 115:8,8	201:13 202:7	switched 149:25
smaller 84:8 116:15	95:19 128:10,12	squared 93:15	125:5 128:16	successful 19:16 20:5	system 24:2 25:4
120:6,17,18 122:8	138:23 193:14	Squire 2:9,9,10,10,11	129:14 140:22	20:20 22:6 31:1	28:10 30:1,16,22
Smilno 21:10,22,22,24	soon 97:11	2:11,12	142:16 143:7	33:14 43:12 117:20	33:5,22 34:13 38:23
22:1,2,3,16 23:12	sorry 14:8 17:5,7 22:4	stable 174:25 176:19	154:19 169:1 173:9	135:4	113:17 114:20
23:21 24:1,6 26:24	28:22 30:11 34:5	stack 99:18 101:4	179:6 180:20	successfully 57:25	systems 3:5
53:11,21 54:2,6	35:16 41:1 44:16	stacked 135:23 137:4	185:15 187:9	successive 88:17	
68:5,6,7 99:18	45:14 51:24 52:2	137:9	189:11,14 194:14	suddenly 129:16	T
101:1 103:9,13,17	53:15 71:24 75:23	stage 39:18 46:15	200:8,25 201:1	sufficient 22:11 27:8	tab 107:1
103:23 104:2	95:20 108:14,15	108:18,19 142:13	209:21	54:12 102:6,11	table 11:22 12:21
131:23 132:9,9	111:25 113:2	Stallard 1:24	stock 71:14,14 72:1,20	108:11 140:14,19	58:11 109:20 113:5
133:23,25 136:15	115:22 118:7,17	stand 64:4	72:22,23 73:4	sufficiently 85:17 86:1	116:3 118:22 128:4
136:15,16 190:4,15	124:13 129:16,18	standalone 22:16	147:24 197:10	101:24	129:2 130:23
211:15,17	133:10 140:17,22	25:24	203:4	suggest 43:21 108:5	131:19 132:22,22
smooth 59:13	141:1 148:9 158:16	standard 7:9 13:12	stop 43:24 51:16	176:19 179:16	134:11,20,22
SM-019 24:5	164:15 165:15	14:19 50:21,25	156:22 196:16	suggested 129:17,20	135:12 136:13,21
<b>SM-51</b> 9:13	196:21 199:22	205:16 206:3 212:3	straits 176:1,10	186:2	137:16 138:1 149:3
<b>SM-54</b> 9:13	200:2 202:2 212:25	212:5	183:10,19 184:25	suggesting 130:7	166:8,8,9,10 174:7
social 47:8 48:12 49:1	215:9	standards 5:17	185:4,9,13 186:7	175:1	180:8 201:21
49:7 50:5,6	sort 28:13 64:9 84:19	standpoint 147:12	stratigraphic 10:24	suggestion 181:2	tabulated 110:10
society 5:15,16	89:5 93:10 95:16	start 1:5 3:15 5:1 17:2	125:23	185:6,7,8	take 24:9,18 31:2 33:2
soils 52:23	117:3,10 154:16	31:20 35:24 45:19	stratigraphy 126:6,7	suggests 165:22	55:3,10,14,21 58:16
sold 33:25 34:8 60:6	206:1,1	52:14,17,19 55:19	127:4,10	Sullivan 174:11	64:14 70:23 78:5
147:17 149:3 152:5	sorted 37:22	86:22 92:13 93:5	stream 148:13	<b>sum</b> 153:20	79:2 86:16 90:8
153:15 168:8,14,21	sought 100:1 202:4	144:12 145:11	strength 185:16	summaries 154:9	99:14 100:23
176:3	sound 6:14 27:3	146:2,6,18 154:21	stress 211:8	summarise 58:9 131:2	116:20 118:8 119:4
solely 170:15	sounds 142:6	155:2 185:24	strictly 175:22	136:14 210:21	124:6 130:13
solemnly 4:19 56:14	source 5:24 166:11	213:16 214:21	Stromy 139:4	summarised 166:9	142:22 143:1,6
87:10 145:5,8	197:6	started 28:4,25 54:9	struck 211:5	summarises 130:25	145:12 163:16
solution 7:16 14:2	sources 31:17 80:19	starting 6:8 47:10	structural 88:22	summary 97:15	164:5 165:23
solvency 175:23	148:17	52:25 165:24	structure 9:5 101:2	130:22 134:11	188:12 200:10
					100.12 200.10

Anne-Marie Stallard for Trevor McGowan Page 16

#### Discovery Global LLC -v- Slovak Republic ICSID Case No. ARB/21/51

Tuesday, 6 February 2024

201:2 210:19 171:24 17	75:10 <b>things</b> 26:9 60:11 62:8	172:11,21 173:3,14	157:3,19,23 158:13	135:12 147:13
taken 6:17 7:19 11:5 185:7 197		177:14,21 178:4,14	162:6,9,13,17,19,21	157:7 167:24 174:6
12:22 25:7 41:17 204:24	163:21 170:17	178:24 183:9 184:4	163:16 165:10,21	179:2,21 180:7
51:2 58:11 67:15 <b>telling</b> 18:19		185:16 186:17	187:25 188:3 189:4	181:11 189:20,24
	81:6 183:7 183:25 184:20,22	187:8,10 190:11,16	189:10,12,13,17	191:14,21 201:19
112:19 114:4 191:2,7	203:12	191:5 193:3 194:11	transcript 1:24 2:19	212:10
118:25 120:12 <b>ten</b> 86:17 19	97:25 <b>thinking</b> 2:3 68:5	214:22 215:3	37:25 158:17 210:4	turned 27:12
138:6 164:11,17 198:1	thinks 191:1,4	timeframe 13:20 14:4	212:14 213:22,23	turning 9:8 106:22
165:1,15 166:2 <b>tens</b> 82:1	third 56:4 208:9,16	36:14	transcripts 2:16	112:18
167:6 168:13 term 185:20	211:15	timeline 59:19 157:1	transfer 53:7	Tushingham 2:3 1:10
176:17 180:1,16 terminology	y 194:8 Thornton 204:21	times 94:9 119:21	translated 188:17	1:22 3:6,8,13 215:9
186:20 188:25 terms 22:7	75:11 86:1 <b>though</b> 28:15 41:25	125:6 129:23	translations 2:18	Twenty 2:3
193:8,11 196:19 89:10 102	2:16 143:3 42:9 76:20 81:22	149:24 150:1 158:4	transport 32:8	twice 14:15
197:2,23 201:5 149:6 157	7:3 177:13 117:16 128:13	197:25 198:1	trap 5:23 83:4	<b>two</b> 2:6,9,15 4:11 5:12
	93:6 212:8 185:5 202:22	206:16	trapped 113:19	6:1 9:15 11:20
takes 3:4 5:22 36:10 terrain 16:2	8	timescales 15:1	traps 99:7,17,25	14:15 19:13 20:7,8
taking 11:17 12:14 testimony 4		timing 154:18	treated 22:5,13,15	22:13 31:3 36:11,15
	2,9 137:6 161:1 168:19	tiny 120:14	166:1	38:3,6 44:9 49:2
67:6 89:19 118:10 141:20 10		title 135:14	treating 185:4	56:6 60:11 61:18,19
	59:8 193:4 thousand 206:23,24	today 15:15 96:5	tree 42:21 105:17	61:23 75:25 80:13
129:24 130:12 thank 3:13		104:14 108:20	trees 57:24 141:16	87:4 93:24 94:19
138:4 193:2 194:12 201:22 17:15 22		115:12 122:20	trend 64:8 65:17	95:13 97:7 100:22
201:22 17:15 22: talk 38:22 60:3 147:2 24:14 25:		123:3 147:2 148:21	89:11,12 97:16	103:7,21 104:22,23
talk 38:22 69:3 147:2 24:14 25: 153:9 157:1 26:20,21		162:6,11 164:4,14	trends 20:3,4,7,8	112:11 116:10,14
	31:4,9     33:17,19       4:18     35:16       48:19     53:22       54:19     54:5	164:20 165:3 166:7 184:3 208:23	89:10 Tribunal 1:22,23 3:7	131:23 132:11 133:14 135:23
talking 23:13 30:9 35:20 37:			3:8,9,10,11,12,14	139:3,5,8 142:14
	38:21,24         02:10         08:3           44,5         50:11         68:13         91:6         92:9,18	61:14 67:16 111:7	3:15,19,20,24,25	144:22 145:18
	6,17 52:3         94:9 95:11 97:3	112:4 130:23 205:8	4:6,7,8,9,10,12 1:21	146:6 152:4 153:5
47:18 49:13 50:3 54:8,21,2		205:14 211:14	1:23 2:3,8 3:10 5:5	162:17,21,24
	17,22 60:1 105:15,22 106:1,3,8		13:23 40:6 52:7	174:15 175:2
69:21,22,24 73:13 65:23,24		told 14:9	83:16 88:1 141:10	180:16 187:18,25
	132:11 133:8,12	tomorrow 209:2,13,16	145:20 146:5 157:3	192:2 198:20
	12 86:8,9 134:5,14,19 135:3,9		171:25 172:7	201:14 211:5
164:12,22,23,25 87:13 97:		215:15	184:13 200:13	two-way 107:5 109:3
166:10 170:9 176:2 125:2 14		top 2:9 11:7,9 35:24	207:22 209:2,3	<b>TWT</b> 107:8,8
182:14,17,18,23 143:13,10	6,17 144:7 thriving 174:18	36:1 76:7 81:11,14	213:21	type 6:22 13:4 36:24
186:10 192:16 146:12 15	53:4 157:4 <b>through</b> 6:4 8:21 9:25	88:13 91:24 96:17	Tribunal's 2:12,22	63:19 69:25 212:1
198:1,19,20 157:10,13		97:3,8 128:16	125:11 146:22	types 7:14 16:5
talks 155:16 172:10 18		135:13 174:8 177:1	tried 54:19 118:22	
target 137:5,22 205:11 20		195:24	127:4	U
targeting 142:1 207:20 20		topic 211:3,4	triggers 27:24	UK 30:8
	15:5,16,17 64:9 76:22 83:18	topics 88:6	Trinidad 5:10	ultimate 7:6 22:21
137:13 thankful 39		total 34:22 101:9	trouble 148:8	25:18
<b>TATIANA</b> 2:10 thanks 3:12			truck 36:21	ultimately 20:12 24:1
tax 67:25 their 9:12 1		134:22,25 135:17	true 94:23 107:7	26:25 130:8
taxation 67:25 22:21 26:		214:11	118:1 148:4,25	unable 206:12
	,20 74:14 <b>thrust</b> 88:16	totalled 110:12 173:24	163:8 172:1 206:19	unattainable 43:21
	78:6 80:21 <b>thrusts</b> 88:17,19	totals 128:10	try 31:23 77:15 93:16	unaudited 204:9,10
	82:5 83:9 <b>Tiago</b> 4:1 144:14,16	towards 32:5 117:10	113:24 137:7	204:25
	23 101:18         Tilly 204:20           5:5 106:6,7         time 1:25 3:4 22:11	track 24:21 traded 175:18	160:23 173:7,10 trying 2:10 17:16	unaware 155:2
		traded 1/5:18 tranches 67:23	18:10 20:12 21:21	unbiased 167:19
technical 59:23,25 110:25 1 70:7 76:8 85:18 111:23 1		transaction 60:11,18	73:3 86:4 89:23	uncertain 203:12
210:16 111:23 1		68:13 70:4 80:17	92:22 95:15 107:24	uncertainty 18:11
technically 46:6,8,13 140:24 14		147:22 148:7,11	92:22 93:13 107:24 110:15 112:8 115:1	155:11,12,12 182:4
techniques 12:16 154:18,24			118:17 141:23	uncontroversial 37:2
13:21 113:10 168:16 19		162:17,20 163:7,10	160:22 206:24	under 1:1 4:16 7:15
123:10 193:10 193:10 2		163:12 164:3	207:15	27:17 39:13 41:2
technology 49:11 themselves			tubing 7:4	46:7,18 56:10 61:19
113:10,25 122:22 174:19,21		170:11 172:1,3,9,11	Tuesday 1:8 1:1	91:21 93:18 107:7
124:23 125:1 195:3	111:10,17 140:13	172:13,17,18,21,25	Tunisia 63:18	153:8 163:11 172:6 180:7,8 211:1
technology-driven theory 212:		173:3 176:12	Turkmenistan 5:10	underappraised 49:15
		182:16,22 183:10	turn 27:21 72:17	undergo 27:18
129:22 thing 63:20				
129:22         thing 63:20           tectonic 99:21         90:22 97:		187:2,19 188:4	97:25 102:17	
tectonic 99:21 90:22 97:				underlie 89:8
tectonic 99:21 90:22 97:	1 134:17 163:5 166:7,16	187:2,19 188:4	97:25 102:17	

Anne-Marie Stallard for Trevor McGowan Page 17

#### Discovery Global LLC -v- Slovak Republic ICSID Case No. ARB/21/51

Tuesday, 6 February 2024

$  \begin{array}{ c c c c c c c c c c c c c c c c c c c$		1				
182.2         215.19         6120 6219 63:11         16125 (20 63:14,25         11.10,15,16,17 122         whelly 156:11833           1265         uppdet 02:3         uppdet 03:6         63:116:16:65:3         215:11         212:21:22:21:22:21:22:21:22:21:22:21:22:21:22:21:22:21:22:21:22:21:22:21:22:21:22:21:22:21:22:21:22:21:22:21:22:22	99:5.7.11.20 100:8	166:1 167:11.12	58:15.25 59:3.11.15	143:10 162:1	wells 6:1 8:21.25	180:25
inderenth 99:20         unsumal 43:16         63:11 64:16 62:3         167:15 19 2007         127,9 11,4 13:23         WHYTE 2:14           underpinned 72:3         uppite 19:05         73:15         20:18 82:13         138.18 (2) 20:17         Willing 14:36 17:26           173:15         uppareds 14:83         73:13 (76:17 / 20:17)         viewed 2:18         30:18.19 20:07         11:22         30:19.19 40:25           173:15         uppareds 14:23         73:15 (76:17) 72:07         30:18.19 20:06         11:22         30:19.19 46:7,14         11:22:21 85:23           173:15         uppareds 14:23         73:12 54:18 20:77         30:19.19 46:7,14         11:27:21 83:10 19:74         11:27:21 83:10 19:74         11:27:21 83:10 19:74         11:27:21 83:10 19:74         11:27:21 83:10 19:74         11:27:21 83:10 19:74         11:27:21 83:10 19:74         11:27:21 83:10 19:74         11:27:21 83:10 19:74         11:27:14 19:22 13:12 13:13:16         11:19:72 11:83:16         11:19:72 11:83:16         11:19:72 11:83:16         11:19:72 11:83:16         11:19:72 11:83:16         11:19:72 11:83:16         11:19:72 11:83:16         11:19:72 11:83:16         11:19:72 11:83:16         11:19:72 11:18:11         11:19:72 11:19:11         11:11:11:11:11:11:11:11:11:11:11:11:11:					-	
126.5         upplift 12:18         68:11 71:0173.2         20:18:213:1         138:18:21:20:17         vide 7:14           moderstam 16:24         upparcum 5:78:85         75:31.87:021 77:23         vice 7:14         21:22:11         21:22:12:22:12:23:24:24:14         vice 7:14:22:18:22           17.8,15 19:14 20:25         upparcum 5:78:85         75:31.87:021 77:23         vice 7:14:22:18:22         31:01:12:21:02:10         31:01:12:21:02:02         31:01:12:21:02:02         31:01:12:21:02:02         31:01:12:21:02:02         31:01:12:21:02:02         31:01:12:21:02:02         31:01:12:21:02:02         vice 7:01:12:02:02         vice 7:01:12:02:02         vice 7:01:12:02:02         vice 7:01:12:02:02:02:02:02:02:02:02:02:02:02:02:02				-		
inderpined 72.3         upside 190.6         73:21 74:18,20 75:2         215:11         21:92:10,23:142         Uilling 24:86 72:6           inderstand 16:24         upwards 12:86:30:12         78:13:78:179:78:17         views 21:21:07:19         36:18:19.78:68:19         41:22:28:23         37:31:78:11         11:97:11         12:92:10:23:19         36:18:19.78:68:19         41:22:28:23         37:31:78:11         11:97:11         12:92:10:23:19         36:18:19.77:18:10         11:12:92:11:19         42:22:18:12         wish 72:18:18:10         11:12:92:11         11:12:92:11:19         11:12:11:19         11:12:12:11:19         11:12:12:11:19         11:12:12:11:19         11:12:12:11:19         11:12:12:11:19         11:12:12:11:19						
73:15         upstream 5.7 88.5         73:51,8 76:21 77:23         viewed 92:18         34:23,25 85:36:15         viellingness 14:19           178,15 19:14 2025         use 25:14 286:30:12         s2:58:39,17 84:25         viewed 92:18			-			
			-			
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		-			· ·	
212.13.16.22         22.15         53.5 57.9 66.7         851.92.28 65         virtually 127.22         492.423 61.24 62.10 90.19         197.211 86:10           307.12.42.14.48.24         73.18 74.22 77.11         150.14.17.20.25         823.5 20.12.2.6         90.23 91.45.01.21         90.23 91.45.01.21         90.23 91.45.01.21         90.23 91.45.01.21         90.23 91.45.01.21         90.23 91.45.01.21         90.23 91.45.01.21         90.23 91.45.01.21         90.23 91.45.01.21         90.19 80.11 87.7         187.15 156.65.01.10         90.23 91.45.01.21         90.19 80.11 87.7         187.15 155.65.14.19         61.41.25 71.15.17         109.10 170.18         90.23 91.45.01.21         90.19 80.11 87.7         119.11.12 12.14.14         117.12 12.21.61 17         119.11.12 12.14.14         117.12 12.21.61 17         119.11.12 12.14.15         119.11.12					-	
22720 3622 37:24         63:12,13 65:18         147:23 149:16         volume 9:17.21 17:11         61:24 61:09:19         119:72 118:312           397.12 42:14 48:24         73:18 422 77:1         150:14,17:20.2         18:25 20:12.2.6         90:23 91:45,16         215:14         witness 20:13 55:1           495.91,142 70:2         78:28 85:18 107:14         153:14,151,82.5         25:22.23 57:21 38:4         92.99 66:13.89,11         witness 20:13 55:11           76:13 99:19 100:17         130:19.22 15:29         160:21 164:7 167:6         83:23 84:20 99:17         117:12 12:21:16         109:10 170:18           108:16 110:4         137:15 16:22.23         110:15 174:162:22         138:24 10:11         123:11 22:14:13:10.22         109:10 170:18         109:10 170:18           114:13 19:14 11:12         134:11 94:14         138:24 10:12         123:11 22:14:12         witness 24:51.2         witness 24:51.2         109:10 170:18         127:15 170:12         witness 24:51.2         witness 2			-			
$\begin{array}{c c c c c c c c c c c c c c c c c c c $						
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		-		-		
7.44,8,16.75.3,18         115.19         121:16         1322,11,620.25         993,4,10,632,42,55         996,152,102:13         witness 26:13,551,102,114,24,23,76:15,17           7.612,020,021,14         130:9,136,16,17         1582,122,22,3         1162,116,47,167-6         832,584,29,91,17         117;12,122,12,17         1093,78,113,15,27         1091,10,113         117;12,122,13,11,17         wonder1;11           141,13,19,14,31,2         132,61,17,20,61,7         132,82,14,14,15         123,11,12,14,15         wonder1;2,12,20,11         wonder1;2,12,20,11         wonder1;2,12,20,11,12,12,11,12,12,11,12,12,12,11,12,12,			, , , ,			
76:19.20         80:22         125:22         125:22         15:15         15:86:14:10         64:14:23         76:15:17         10:37:11         11:32:15         11:42:15:17:12         11:41:14:14:14:14:14:14:14:14:14:14:14:1				-		
88:15         86:4 97:10         130:9 136:16.17         158:21,22.25         76:24 78:16 83:22         117:12 12:16,17,25         106:10 170:18           98:21 99:10:10:1         157:15 161:22.22         17:16 172:44 186:20         12:01:6,17 12:44         17:12 12:21:6,17         17:12 12:21:6,17           112:12:13 16:10:20         187:11 12:13,14,15         100:11 16:12,22         17:16 172:44 186:20         12:11 12:14,12         100:16 16:12         12:21:12:14,12:14         100:01:16:12         12:21:12:14,12:14         100:01:16:12         12:21:12:14,12:14         100:01:16:12         12:21:12:14,12:14         100:01:16:12         12:21:13:94:12         10:01:16:12:12:14         10:05:12:12:14         10:05:14:12:14         10:05:14:12:14:12:14         10:05:14:12:14:12:14:14         10:05:14:12:14:12:14:14:14:14:14:14:14:14:14:14:14:14:14:	· · · ·				-	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	-	-				
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$\begin{array}{c c c c c c c c c c c c c c c c c c c $						
$\begin{array}{c c c c c c c c c c c c c c c c c c c $						8
1951.12 203:16         50:21 57:91,422         valued 151:10         123:11 1954.5,8         work 312 64 344,2           204: 208:10 2095         59:19 75:10 80:16 64:9 74:13         1966.11.10.25         well-defined 105:23         7612.12 83:19           37:18 142:1 163:11         91:13 94:55 107:10         77:25 85:5,10         200:22 201:16         well-defined 105:23         7612.12 83:19           understood 26:18         17:15 120:13         149:18 150:6         values 27 64:13         values 27 64:13         well-defined 105:23         7612.12 83:19           undertake 16:22         158:81.18 126:23         values 27 64:13         values 27 64:13         values 27 64:13         199:12 92:163           undertake 16:22         158:13 196.1.24         verification 10:21         wait 83:169:11         wells 25:23 38:23         workig 88:5           undertaking 38:17         195:13 196.1.24         verification 10:21         wait 83:154:23         workig 88:5         workig 88:5           undertaking 38:17         19:14.116:2.7         20:510         wait 32:12 26:7.21.25         44:10.452.45:22         workig 88:5           undertaking 38:17         19:14.116:2.7         verified 20:2.4         verified 20:7.4         wait 32:12 26:7.21.25         44:10.452.45:52.1         workig 88:52           undertaking 38:17         15:14:14:21:15			-			
	· ·					
understanding 12:18         80:18 38:19 84:17         75:17,19 77:20,25         197:15,17,18,24         well-defined 105:23         76:12,12 83:10           17:81 142:11 63:11         110:15 116:3,23         147:25 148:33         200:22 201:16         well-enough 91:21         99:45 37:25 14           10:15 142:25         125:8,16,18 126:23         various 31:17 102:9         various 31:17 102:9         warious 31:17 102:9         weil 8:16 19:11         99:45 19:20:10         186:13 170:1,3           10:15 142:25         125:8,16,18 126:23         various 31:17 102:9         wari 98:5 16:9:11         weil 91:19 39:52:33 35:42:1         worked 107:16 206           undertakin 15:2         199:13 19:61:12         verification 10:21         wari 98:5 16:9:11         worked 17:16:20         worked 17:16:20         worked 17:16:20           undertaking 38:17         151:15 19:221         verified 205:24         werified 205:24         wari 98:15 12:25         word worke 21:16:19         word 16:12:12:12:15:13:12:12:15:13:12:12:15:13:12:12:15:13:11:12:12:15:13:11:12:12:15:13:13:12:12:15:13:13:12:12:15:13:13:19:22:10         word worke 21:16:19         word worke 21:16:19         word 16:11:12:13:13:14:12:12:13:13:13:13:13:13:13:13:13:13:13:13:13:						· · · · · · · · · · · · · · · · · · ·
$\begin{array}{c c c c c c c c c c c c c c c c c c c $						
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	8					76:12,12 83:21 99:2
understood 26:18         117:15 120:13         149:18 150:6         went 42:23         (end 42:23)         168:13 170:1.3           110:15 14:22:5         125:8.16.18 126:22:3         125:8.16.18 126:23         125:8.16.18 126:23         warious 31:17 102:9         wari 98:5 169:11         wert 43:20         worken 13:8:20         worken 13:8:30         worken 13:8:30         worken 13:8					8	'
		-		voluntary 211:12		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$						
undertake 16:22         158:25 159:2         vast 13:3 113:12         vait 89:5 169:11         wait 89:5 120:10         Wait 120:10         Wait 120:10:10:10:10:10:10:10:10:10         Wait 120		· · ·		W		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $				WACCs 159:24		
$ \begin{array}{                                    $				wait 98:5 169:11		5
$\begin{array}{c c c c c c c c c c c c c c c c c c c $				waiting 87:15		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $				walk 26:7,21 27:1		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $				29:24		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $				walkway 23:6		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$						
$ \begin{array}{                                    $	undertaking 38:17			31:7 41:5 43:23	62:25 63:8 86:22	worth 69:21 78:15,18
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	undertook 9:10 18:15				87:15 88:8 89:24	78:22 82:4,8,25
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	undeveloped 152:22		vertical 63:9	55:4 58:18 68:20	90:23 98:1 102:19	83:7 128:7 149:5
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	undiscounted 149:6	12:15 13:12,21 53:7	very 1:11,16 2:7 4:25	69:3 70:23 81:7	115:13 119:25	150:5,25 153:17
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	undiscovered 41:22	53:9 57:10 65:22	12:10 13:23 15:4,11	82:2 83:6 119:8	144:12 148:8	
undoubtedly 59:2 unexpected 64:11 unified 67:1975:16,17 79:1,7 83:19 84:21 95:19 49:25 54:25 55:1 49:25 54:25 55:1140:15 141:24 174:4 175:9 185:3 211:6,11 214:15182:14,18 183:23 192:15 195:8 192:15 195:8 192:15 195:8wouldn't 45:1 82:1 96:13 101:9 111: 111:15 122:5 123 211:6,11 214:15unknown 154:19 unless 214:15121:16,8,12 122:21 155:10 158:2256:23 57:16 (59:23 67:17 78:1,18 86:8 86:17 88:22 92:19140:15 141:24 174:4 175:9 185:3 211:6,11 214:15182:14,18 183:23 192:15 195:8wouldn't 45:1 82:1 96:13 101:9 111: 111:15 12:5 13 211:6,11 214:15unknown 154:19 unless 214:15122:10 188:22 199:10 201:8 202:366:17 78:1,18 86:8 93:8,11 94:10140:20 142:24 93:8,11 94:10199:10 201:8 202:3 140:20 142:24wouldn't 45:1 82:1 199:10 201:8 202:3unrealsable 43:17 unreliability 206:4 unreliability 206:4197:16 197:16115:25 118:13 119:2 120:13,22104:6 105:7 107:3 119:2 120:13,22106:6 111:4 water 8:2,19 way 18:3 19:14 78:1 95:11,17,19 100:7wevest 1:12 18:13 20:9 191:2,2,6,7 197:2unrisked 63:24 64:3 64:23 76:1,13 197:60 219:18VV116 155:6 156:8 valid 11:23 101:21V126:56 16:13 valid 11:23 101:21Vunsubstantiated 197:16v1:16 155:6 156:8 valid 11:23 101:21v1:16 155:6 156:8 valid 11:23 101:21v1:16 155:6 156:8 valid 11:23 101:21video 2:21 vide 2:21 view 13:9 76:9 91:20 valid 11:23 101:21133:19 vide 2:21 view 13:9 76:9 91:20 valid 11:23 101:21video 2:21 view 13:9 76:9 91:20 valid 11:23 101:21VVVunsubstantiated 197:02 19		71:2 73:5 74:18,25			171:24 176:1	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		75:16,17 79:1,7	24:15 25:2 46:4		182:14,18 183:23	wouldn't 45:1 82:1
unified $67:19$ unknown $154:19$ $121:6,8,12\ 122:21$ $123:1\ 149:17$ $56:23\ 57:16\ 59:23$ $67:17\ 78:1,18\ 86:8$ $211:6,11\ 214:15$ wanted $27:5\ 119:10$ $149:10\ 201:8\ 202:3$ $199:10\ 201:8\ 202:3$ $199:10\ 201:8\ 202:3$ $124:1\ 181:22$ wrap $213:18$ wrap $213:18$ $115:25\ 118:13$ $115:25\ 118:13$ $115:25\ 118:13$ $115:25\ 118:13$ $115:25\ 125:25\ 120:22$ $205:16\ 206:13$ $205:16\ 206:13$ $205:16\ 206:13$ $205:16\ 206:13$ $205:16\ 206:13$ $205:16\ 206:13$ $205:16\ 206:13$ $197:50\ 199:51\ 11:23\ 105:25\ 123:2$ $125:9\ 139:15\ 140:3$ $115:1\ 195:1\ 11111\ 113:17\ 162:22\ 173:136:9$ $115:1\ 198:24\ 105:21\ 11111\ 113:17\ 162:22\ 183:18,191$ unreliable $147:9$ $197:20\ 198:21\ 198:24\ 109:1\ 120:12\ 105:21\ 111:16\ 155:1\ 11:16\ 125:4\ 111:1111\ 113:17\ 111:11\ 113:17\ 111:1111\ 113:17\ 111:111:111111111\ 113:17\ 111:1111111111111111111111111111111$						96:13 101:9 111:15
unknown 154:19 unless 214:15123:1 149:17 152:10 158:22 $67:17 78:1,18 86:8$ 86:17 88:22 92:19 93:8,11 94:10wanted 27:5 119:10 140:20 142:24199:10 201:8 202:3 203:13 208:7124:1 181:22 wrap 213:18unlikely 45:1 98:10 unreasonable 43:17 43:21164:8 167:10 191:16 193:19,2293:8,11 94:10 102:22 103:6,13wanted 27:5 119:10 100:22 103:6,13199:10 201:8 202:3 203:13 208:7124:1 181:22 wrap 213:18unreiability 206:4 unreiability 206:4194:2,10 195:1 191:16 193:19,22104:6 105:7 107:3 115:25 118:13wanted 27:5 119:10 100:20 142:24199:10 201:8 202:3 203:13 208:7124:1 181:22 wrap 213:18unreiability 206:4 unreibabe 147:9194:2,10 195:1 197:16104:6 105:7 107:3 115:25 118:13wanted 27:5 119:10 100:6:111:4199:10 201:8 202:3 203:12 201:26124:1 181:22 wrap 213:18unreiabe 147:9 205:16 206:13usually 29:13 40:3,21 53:5119:2 120:13,22 142:6,6 143:13,17 146:6 174:19 177:8wanted 27:5 119:10 106:6 111:4199:10 201:8 202:3 201:6 111:4124:1 181:22 wrap 213:18unrisked 63:24 64:3 64:23 76:1,13vilise 39:5 40:9146:6 174:19 177:8 146:6 174:19 177:8124:1 21268 134:2 165:15 159:6130:1,12 157:14 105:25 123:2Vilise 39:5 40:9unrisked 63:24 64:3 64:23 76:1,13vilid 11:23 101:21 197:20 198:21vilid 11:23 101:21 105:22vilid 39:19 113:19 115:1ways 142:8 153:5 160:13 187:2129:22 90:7 181:11 171:12 32unrisked 65:18 197:20 198:21vididity 109:9 valid 11:23 101:21 197:20 198:21vide 2:21 vide 2:21 valid 11:23 101:21 </td <td>unified 67:19</td> <td></td> <td></td> <td></td> <td>198:15,18,20 199:9</td> <td>111:15 122:5 123:9</td>	unified 67:19				198:15,18,20 199:9	111:15 122:5 123:9
unless $214:15$ unlikely $45:1\ 98:10$ unreasonable $43:17$ 152:10 158:22 164:8 167:10 191:16 193:19,22 194:2,10 195:1 $86:17\ 88:22\ 92:19$ 93:8,11 94:10 102:22 103:6,13 104:6 105:7 107:3 104:6 105:7 107:3 115:25 118:13 115:25 118:13 115:25 118:13 115:25 118:13 115:25 118:13 115:25 118:13 119:2 120:13,22 125:9 139:15 140:3 115:25 118:13 119:2 120:13,22 125:9 139:15 140:3 119:2 120:13,22 1105:25 123:2 136:12 143:2,3 136:12 143:2		123:1 149:17	67:17 78:1,18 86:8	-		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		152:10 158:22				
unreasonable $43:17$ 4 $3:21$ 191:16 $193:19,22$ 194:2,10 $195:1$ 102:22 $103:6,13$ 194:2,10 $195:1$ $81:6 83:7 100:9$ 106:6 $111:4$ $214:19$ we've $1:12 18:13 20:9$ $27:22 88:2 91:3$ written $210:8$ wrong $79:17 171:21$ unreliablity 206:4 unreliable 147:9 154:4 $203:23 204:8$ usually $29:13 40:3,21$ $41:23 45:5 52:20,22$ $102:22 103:6,13$ $115:25 118:13$ $81:6 83:7 100:9$ $106:6 111:4$ $214:19$ we've $1:12 18:13 20:9$ $95:11,17,19 100:7$ $109:1,23 124:20$ written $210:8$ wrong $79:17 171:21$ $205:16 206:13$ $205:16 206:13$ utilise $39:5 40:9$ $146:6 174:19 177:8$ $146:6 174:19 177:8$ $186:5,16 197:5$ $81:6 83:7 100:9$ $105:25 123:2$ $214:19$ wetre $8:2,19$ written $210:8$ wrong $79:17 171:21$ $109:1,23 124:20$ unrisked $63:24 64:3$ $64:23 76:1,13$ utilise $39:5 40:9$ $146:6 174:19 177:8$ $186:5,16 197:5$ $81:6 12 143:2,3$ $136:12 143:2,3$ $195:20 199:7$ $211:23$ $209:21$ v 1:16 155:6 156:8 $197:20 198:21$ v 1:16 155:6 156:8 $valid 11:23 101:21$ $105:22$ viable $39:19 113:19$ $115:1$ $106:13 187:21$ $viable 39:19 113:19viable 39:19 113:19wrole 19:32 290:7 181:11viable 39:19 113:19105:22viable 39:19 113:19115:1viable 39:19 113:19115:1viable 18:7:21view 13:9 76:9 91:2094:7 104:15,18viable 15:18151:19 152:11118:10 129:25132:17 136:9VALMIN 71:12 73:8132:17 136:9VALMIN 71:12 73:8, 100:55 111:16 125:4109:21 122:16102:17 170 21102:17 170 21unsupported 156:1144:10 149:23198:24105:5 11:16 125:$						
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$		191:16 193:19,22	102:22 103:6,13			
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$					we've 1:12 18:13 20:9	wrong 79:17 171:21
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	unreliability 206:4	197:16	115:25 118:13		27:22 88:2 91:3	191:2,2,6,7 197:25
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	unreliable 147:9	usually 29:13 40:3,21			95:11,17,19 100:7	198:18 199:23
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	154:4 203:23 204:8	41:23 45:5 52:20,22	125:9 139:15 140:3		109:11,23 124:20	209:21
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	205:16 206:13		142:6,6 143:13,17		130:1,12 157:14	
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	208:15,18	utilise 39:5 40:9	146:6 174:19 177:8		165:18 166:5 183:3	X
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	unrisked 63:24 64:3		186:5,16 197:5		195:20 199:7	Xodus 4:1
195:18,22 196:11 197:6,12,14,15,17 197:20 198:21       v 1:16 155:6 156:8 vaguely 21:15 valid 11:23 101:21       215:5,16 via 7:4 32:11 34:8 viable 39:19 113:19       160:13 187:21 195:1 200:23       whichever 95:24 while 26:16 28:1       x3 12:18         unsubstantiated 147:10       105:22       115:1       video 2:21       weeds 196:3       29:22 90:7 181:11       YA 177:4 179:6         unsupported 156:1       VALMIN 71:12 73:8       video 2:21       view 13:9 76:9 91:20       weighted 65:18       101:11 113:17       162:22 178:25       162:22 178:25         144:10 149:23       198:24       105:5 111:16 125:4       94:7 104:15,18       151:19 152:11       118:10 129:25       180:12 182:18,19         144:10 145:23 162 25       198:24       195:5 111:16 125:4       wellbore 12:16       132:17 136:9       182:24 183:7,8,14	64:23 76:1,13	V	203:12 206:21		211:23	
197:6,12,14,15,17 197:20 198:21       vaguely 21:15 valid 11:23 101:21       via 7:4 32:11 34:8 viable 39:19 113:19       195:1 200:23 ways 142:8 153:5       while 26:16 28:1 29:22 90:7 181:11         unsubstantiated 147:10       105:22       vide 0:2:1       wage 19:13:19       weeds 196:3       while 26:16 28:1         unsupported 156:1       validity 109:9       vide 0:2:1       weeds 196:3       mole 17:23 22:10       YA 177:4 179:6         until 111:121:15       valuable 185:21       94:7 104:15,18       151:19 152:11       101:11 113:17       162:22 178:25         144:10 149:23       198:24       105:5 111:16 125:4       wellbore 12:16       132:17 136:9       188:24 183:7,8,14	195:18,22 196:11	<b>v</b> 1:16 155:6 156:8	215:5,16		whichever 95:24	
197:20 198:21         vialid 11:23 101:21         viable 39:19 113:19         usb 12:01 10:21         viable 39:19 113:19         viable 39:19 113:19         viable 39:19 113:19         viable 15:1         valid 11:23 22:10         viable 39:19 113:19         viable 39:10 113:11         viable 39:10 113:11         viable 39:10 113:19         viable 39:10 113:19         viable 39:10 113:11         viable 39:10 113:19         viable 39:10 113:19         viable 39:10 113:19         viable 39:10 113:11         viable 39:10 113:19         viable 39:10 113:19         viable 39:10 113:19         viable 39:10 113:11         viable 3			via 7:4 32:11 34:8			
unsubstantiated 147:10         unsupported 156:1         vink 105:22         115:1         wages video 2:21         whole 17:23 22:10         YA 177:179:6           unsupported 156:1         validity 109:9         video 2:21         weeds 196:3         words 196:3         whole 17:23 22:10         YA 177:4 179:6           until 111:12 121:15         valuable 185:21         94:7 104:15,18         151:19 152:11         101:11 113:17         162:22 178:25         180:12 182:18,19           144:10 149:23         198:24         105:5 111:16 125:4         wellbore 12:16         132:17 136:9         182:24 183:7,8,14		0.			29:22 90:7 181:11	v
147:10         video 2:21         video 2:21<				,		
unsupported 156:1         VALMIN 71:12 73:8         view 13:9 76:9 91:20         weighted 65:18         101:11 113:17         year 4:9 13:7,7 38:7           until 111:12 121:15         valuable 185:21         94:7 104:15,18         151:19 152:11         101:11 113:17         162:22 178:25           144:10 149:23         198:24         105:5 111:16 125:4         wellbore 12:16         132:17 136:9         182:24 183:7,8,14						
until 111:12 121:15         valuable 185:21         94:7 104:15,18         veginted 0510         118:10 129:25         160:12 178:25           144:10 149:23         198:24         105:5 111:16 125:4         wellbore 12:16         132:17 136:9         182:24 183:7,8,14		e e				
144:10 149:23 198:24 105:5 111:16 125:4 wellbore 12:16 132:17 136:9 182:24 183:7,8,14				0		
150 1 155 0 160 05 100 100 100 100 100 100 100 100 100			-			-
	150:1 155:2 163:25		125:21 133:5 143:7		137:17 170:21	
valuation 57:5,8 58:9 125:21 155:5 145.7 wellhead 28:18 29:14 157:17 170:21 184:9		valuation 37.3,0 30.9		weinicau 20.10 27.14		184:9

Anne-Marie Stallard for Trevor McGowan As amended by the Parties

#### Discovery Global LLC -v- Slovak Republic ICSID Case No. ARB/21/51

Tuesday, 6 February 2024

vears 5:7 9:23 12:24	<b>0.6</b> 151:1	144:23 155:21	<b>20-plus</b> 90:23	176:11 179:22	<b>44</b> 190:23,24
19:13 36:11,15 38:3	0.0 151.1	170:19	<b>20.6</b> 133:4 138:11	180:8 211:1,2	<b>45</b> 13:8 176:25
38:6 60:15 88:4	1	141 3:25	<b>200</b> 129:5.13	100.0 211.1,2	<b>46</b> 155:18
90:23 95:13 96:23	<b>1</b> 1:5 3:3 37:16 65:11	<b>143</b> 12:13 129:4	<b>200-700</b> 128:25	3	<b>47</b> 53:13,16,18,19
96:24 121:19	98:2 147:2 189:24	<b>144</b> 4:1,2	<b>2000</b> 90:19	<b>3</b> 3:4 6:8 56:7 57:2	<b>48</b> 102:17,20
122:17,18 123:23	192:24	<b>146</b> 4:3	<b>2000s</b> 91:9	88:11 148:10	
163:21 164:3,6	<b>1b</b> 11:21,24 12:13	<b>15</b> 3:6,7 4:8,13,23,24	<b>2008</b> 69:19 169:15	179:11	5
165:25 168:22	1,000 11:15 36:20	23:23 55:7,14 56:19	<b>2010</b> 189:22	<b>3b</b> 11:25	<b>5</b> 1:8 3:5 7:13 17:3
188:21,23	93:15	62:19 65:10 87:14	<b>2011</b> 69:19 169:16	<b>3,700</b> 128:10	57:19 68:16 89:22
year-end 182:20	<b>1,200</b> 16:23	87:22 97:1 146:3	2012 69:22 94:11	<b>3-4</b> 11:22 129:2	98:1,7 130:20 150:8
yellow 10:12 25:3 97:5	<b>1,414</b> 64:3	155:24 156:21	131:4,5,6 134:9		155:7.8
vesterday 21:12 90:3		<b>15-minute</b> 55:5,8,10	166:24	<b>3.2</b> 178:10,10	· · ) -
90:14 91:19 92:8,23	1,414,000,000 63:22	<b>150</b> 9:23 121:19	<b>2013</b> 69:23 153:15	<b>3.3</b> 177:2	<b>5%</b> 203:11
	146:17			<b>3.47</b> 207:5	<b>5-1</b> 35:14
93:1 94:4,12 117:2	1,577,000,000 146:15	122:17,18	<b>2014</b> 69:6 81:18,19,20	<b>3.48</b> 207:21	<b>5-10</b> 65:5 152:23
130:17 137:6 166:8	146:16	<b>153,000</b> 153:16,22	109:25 138:22	<b>3.5</b> 147:15	200:5 201:10,12
213:12	<b>1.02</b> 141:9	<b>156</b> 190:20	147:17 153:25	<b>3.7</b> 149:14	202:20 203:13
	<b>1.07</b> 144:9	<b>157</b> 4:5	166:19 167:3 168:8	30 2:16,20,23 3:1,5	<b>5.10</b> 68:12
Z	<b>1.1</b> 200:3	<b>16</b> 63:7 64:7 72:8	168:21 169:20	4:12 81:16 111:12	<b>5.28.6</b> 72:8
<b>Zborov</b> 133:24 134:12	<b>1.44</b> 152:16	97:15 102:19	170:24 173:24	119:21 138:2 176:6	<b>5.8</b> 176:18 177:24
135:13,21 136:15	<b>1.8</b> 60:9	112:23 113:3	176:18 182:20	176:7,11,24 179:20	<b>50</b> 3:13 170:19,20
136:15	<b>10</b> 11:4 60:3 93:9	124:11,13 134:24	186:15		-
		135:2 138:2 156:17	<b>2015</b> 58:24 59:2 60:6	181:7 183:3,6	<b>50%</b> 62:10 93:1
<b>zoom</b> 81:10 141:14	115:14 125:5 153:5	207:14	61:11 109:25	<b>30%</b> 135:18,20 136:17	149:12,21 150:4
ZUZANA 2:13	198:18,20,21,22			137:17	186:18 187:9,11,22
	210:24	<b>16%</b> 134:23 136:17	146:13 147:18,22	<b>31</b> 87:5 144:23 191:19	<b>50/50</b> 42:25 150:2
Š	10-20 129:22	137:17	149:11 153:23	<b>318</b> 107:1	<b>500</b> 32:12
Števcek 213:7 214:6,8	10.00 214:25	<b>17</b> 115:14 138:21	162:13,19,20 163:4	32 81:9 105:24 138:20	<b>500,000</b> 10:5
214:9	10.08 50:15	<b>17.5</b> 138:10	163:5,7 165:9 167:7	<b>33</b> 34:23 119:14 139:1	<b>51</b> 3:14
214.9	<b>10.10</b> 52:6	<b>175</b> 4:6	168:1 169:20	<b>33-35</b> 214:9	51-101 138:15
¢	<b>10.15</b> 55:16	<b>178</b> 4:7	173:25 176:8 179:3	<b>338</b> 68:17	<b>52</b> 3:15 154:7 171:3
\$	<b>10.30</b> 55:18 214:25	<b>179</b> 4:8	179:5 182:14,17	<b>339.5</b> 190:11	<b>53</b> 31:25 146:8 155:1
<b>\$0.15</b> 64:2	215:1,3,15,19	<b>18</b> 56:8 58:10 70:18	188:1,5,6,21 208:5	<b>34</b> 3:9 91:5 181:11	<b>55</b> 32:17
<b>\$1</b> 184:12		91:23 97:13 109:15	<b>2016</b> 166:19 167:3		
<b>\$1.1</b> 147:7 153:2	<b>10.31</b> 56:20	193:2 194:13	<b>2017</b> 36:5 37:16 38:12	212:14	<b>55-75</b> 32:19
<b>\$1.29</b> 147:20	<b>10.48</b> 66:1	<b>185</b> 4:9	92:1,3 110:1 192:24	<b>35</b> 140:10	<b>56</b> 3:16,17
<b>\$1.44</b> 152:13 200:17	<b>100%</b> 147:19			<b>350</b> 78:2 79:5 147:24	<b>57</b> 45:13
<b>\$1.66</b> 148:1	<b>103</b> 146:14	<b>1850</b> 125:14	<b>2018</b> 36:5 37:7 38:12	<b>36</b> 35:14,16 65:9 75:19	<b>59</b> 106:23,25 107:2
<b>\$1.82</b> 147:25	<b>107.2</b> 100:24	<b>19</b> 64:20 66:5 190:6,8	187:13 191:17	79:8 83:17 84:19	
<b>\$10.1</b> 61:20	<b>109</b> 119:13	<b>19p</b> 190:3,16	192:8,16 193:3,20	100:24 151:15	6
	<b>11</b> 12:3 45:18 53:16	<b>1910</b> 12:9	193:24	<b>362</b> 159:17	<b>6</b> 1:1 8:15 58:9 90:16
<b>\$11.9</b> 152:16	60:19 92:2,3 94:2	<b>1930</b> 12:8	<b>2020</b> 154:1	<b>37</b> 3:10	134:19,19 150:11
<b>\$133</b> 58:10 68:9	110:12,13 153:10	<b>1945</b> 11:12	<b>2021</b> 13:7 62:6	<b>374</b> 73:25	
<b>\$2</b> 147:5 153:8 181:10	208:11	<b>1946</b> 127:20	2022 4:3,5,12 56:7	<b>375</b> 72:17 73:20,20	6th 1:8
184:12		1998 91:7 114:8	95:8 166:25	74:10 75:15 76:23	<b>6%</b> 133:1
<b>\$3</b> 180:13	<b>11-14</b> 211:5		<b>2023</b> 4:4,6,8,13 56:8		<b>61</b> 109:16
<b>\$3.2</b> 177:3	<b>11.1</b> 199:15	2	87:5,5 95:9 97:4	<b>38</b> 3:11	<b>62</b> 207:14,15
<b>\$3.7</b> 149:10,22	<b>11.20</b> 83:15		144:23,23 187:15		<b>64</b> 146:9 191:22
<b>\$30</b> 80:23 81:2	<b>11.26</b> 86:19	<b>2</b> 56:23 66:22 88:6		4	<b>65%</b> 149:25
<b>\$36</b> 64:18 68:11 73:21	<b>11.35</b> 86:21	98:3 147:16 154:3	191:19	<b>4</b> 6:24 57:7 89:2 138:2	<b>66</b> 3:18 34:23 124:23
74:3,19 75:4 76:21	11.39 87:23	155:7,8,18 189:24	<b>2024</b> 1:8 1:1	138:3 149:7 199:1	
78:15,18,22 151:25	11.56 97:20	<b>2b</b> 11:21,24 12:14	<b>205</b> 4:10	212:14 214:9	7
	<b>11.9</b> 200:1,2,2	<b>2D</b> 91:8 114:6	<b>207</b> 4:11,12 31:25 32:2	<b>4%</b> 155:18,19,24	
158:10 199:7	115 23:18,22	<b>2P</b> 63:2,6,9,15 78:6,10	<b>208</b> 4:13	156:5,7	<b>7</b> 9:8 64:18 90:25
<b>\$4.375</b> 64:14 74:11,25	<b>12</b> 7:21 12:20 61:17	78:16 85:9 151:16	<b>21</b> 65:16	<b>4,000</b> 10:25 125:13	151:2 191:17 192:8
151:22	90:19,23 95:1	151:20 152:8,9,12	<b>22</b> 66:16 91:23 109:15		192:16 193:3,20,24
<b>\$4.375/boe</b> 75:16	112:23 113:2,3	194:22	192:2	<b>4.02</b> 215:18	197:21
<b>\$40,000</b> 151:4 197:22	130:19 138:2,2	<b>2,000</b> 10:22,22 11:1,3	220,000 12:13 129:4	<b>4.375</b> 75:12	<b>7BQ</b> 1:6
<b>\$400,000</b> 198:1,19	139:12.22		<b>224.2</b> 46:17	<b>40</b> 18:19,21,21 19:11	<b>7.5</b> 133:3,11,22 138:11
<b>\$46</b> 155:17		11:10 <b>2 15</b> 142:10 144:6 10	<b>224.7</b> 47:4 48:13	20:1,17,21 36:4,15	<b>70</b> 203:19
<b>\$5</b> 155:20	<b>12%</b> 133:1	<b>2.15</b> 143:19 144:6,10	<b>23</b> 124:11,12 203:20	36:19 37:6,21 38:13	700 129:9
<b>\$5.15</b> 147:19	<b>120,000</b> 60:6 147:18	<b>2.18</b> 144:11		88:4 91:18 92:4,12	<b>71.5</b> 12:5
<b>\$5.2</b> 149:19	149:3 153:23 168:2	<b>2.22</b> 146:20	<b>24</b> 169:13 174:6	96:6,9,12 100:4	<b>72</b> 70:17,19 71:7
<b>\$5.7</b> 149:18	171:5 176:2,4	<b>2.37</b> 157:8	212:15	101:9 109:12 110:2	<b>73</b> 12:6
<b>\$60</b> 184:17	184:16	2.8 154:3 173:24	<b>24.7</b> 66:19,24	112:7 120:15	<b>73,000</b> 128:3
	<b>123</b> 3:24	208:14	<b>25</b> 212:15	<b>40%</b> 154:25 155:3,3,4	
<b>\$61</b> 149:5	<b>13</b> 13:17 62:8 95:14	20 36:2,2 38:6 42:24	<b>25%</b> 149:14 177:7	155:7,8	<b>737</b> 209:7
<b>\$7.6</b> 153:14	154:23	95:20 102:18	180:18 186:20,23	<b>400</b> 11:20 128:24	<b>75</b> 32:18 99:15
<b>\$800,000</b> 177:7	<b>130,000</b> 185:22	111:12 125:5 130:1	187:1,4,7,16,17,23		<b>75km</b> 32:12
	<b>133</b> 154:25 155:20	191:22	<b>26</b> 3:8 201:20	129:7,21	<b>77</b> 3:19
0		<b>20th</b> 113:6	<b>27</b> 5:7	<b>400,000</b> 95:22	<b>770</b> 13:9 91:8 169:15
<b>0.5</b> 153:1	<b>14</b> 13:6 14:18 87:5		<b>29</b> 23:15 119:15	<b>42</b> 3:12	<b>78</b> 179:3
	96:4 138:20,25	<b>20,000</b> 95:20		<b>43</b> 13:8	
	1	1			

Anne-Marie Stallard for Trevor McGowan As amended by the Parties

#### Discovery Global LLC -v- Slovak Republic ICSID Case No. ARB/21/51

8			
<b>8</b> 9:20 17:2,9 58:22 91:18 101:1 130:2			
134:19 151:5 152:2			
210:23			
<b>8.24</b> 64:17			
<b>8.59</b> 1:2			
<b>80</b> 32:14			
<b>80%</b> 149:23			
800 11:19			
<b>800,000</b> 178:10			
<b>820</b> 13:3			
<b>83</b> 3:20 180:7			
<b>86</b> 3:21			
<b>87</b> 3:22			
<b>87%</b> 11:14 12:4			
127:19			
9			
<b>9</b> 1:4 10:20 17:2 58:25			
92:11 99:16 169:10			
169:12 199:23,25			
210:23			
<b>9b</b> 11:25			
<b>9%</b> 94:13 133:1			
201:24			
<b>9.02</b> 3:17			
<b>9.04</b> 5:2			
9.19 15:9 202:9			
<b>9.30</b> 213:16			
<b>90</b> 3:2			
<b>90%</b> 12:7 201:24			
<b>9000</b> 24:20			
<b>91</b> 134:10			
<b>94</b> 159:14			
<b>95</b> 159:17			
<b>96%</b> 11:19 127:24			
<b>97</b> 3:23 72:18			
<b>977</b> 11:17 12:3			
<b>99</b> 34:20,23,25 48:8			
49:2,23 72:17 96:8			
96:15,23			