To: Thorseth, Jay C Cc: Bozeman, Walt

Subject: FW: Macondo TAM

Importance: Normal

Attachments: 0904\_Macondo\_Tam.xls

Jay,

CH1 of Macondo is finished and ready to upload. Ch2 and 3 should also be on their way to you this afternoon from Walt. Recommend we do not upload the drilling chapter till next month (we'll have the actual work done) and we probally need a discussion around how to frame the economics, the FM, the AFE and then write the economics chapter around that.

The short answer: upload 1,2 and 3 this afternoon.

Regards.

Jasper Peijs

Exploration Manager

Eastern GOM Deepwater

email: peijsj@bp.com

Tel: 281-366 3267

Mobile:

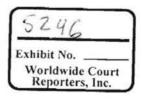
From: Bondurant, Charles H

Sent: Thursday, April 23, 2009 2:53 PM

To: Peijs, Jasper Subject: Macondo TAM

Here is the final V1 of the Macondo TAM.

Chuck Bondurant BP Geologist EGoMX Westlake 4 02065B Office # (281) 366-7848



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BP-HZN-MBI00180471 BPD108-012545



Confident	ial	
Technical A	Assurance Memorandum	
Section: 1	(Subsurface)	
Region:	USA	
Prospect:	Macondo	
Operator	BP	
Date	April	2009

Prepared by:		Role			
Chuck Bonduran	l	Geologist			
Binhy Nguyen		Geophysicist			
Chris Cassler		Geophysicist			
Pierre-Andre Depret		PeST			
Donald Charles		Petrophysicist			
Sharma Tadepall	l T	Rock Properties			
Tanner Gansert		Reservoir Engineer			
Endorsed by: Jasper Peijs		Team Leader			
Approved by:	Jay Thorseth	PUL			



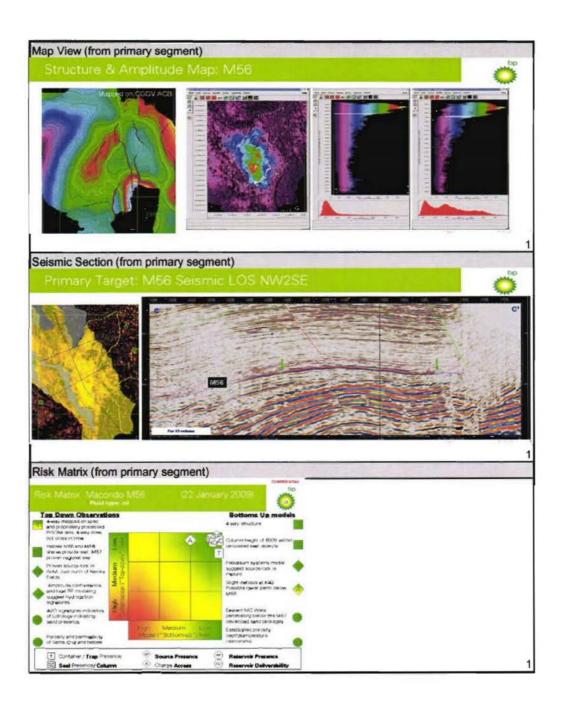
Country	Operator	Month	Year	Role
uk	BP	January	2008	Geologist
Algeria	Exxon-Mobil	February		Geophysicist
Russia	Chev-Tex	March		Team Leader
Colombia	Conoco-Philips		2011	
Algeria	Amerada	May		Geoscientist
	IOC	Jun		Reservoir Engineer
Angola	ioc	Jun	2013	Keservoir Engineer
Peru	Petrobras	July		Petroleum Engineer
USA	Lukoil	August		Commercial
Canada	Shell	September		
China	BG	October		
Indonesia Libya	other	November December		
		Document.		
Egypt				
		4		

# 1 Executive Summary Copy?



Prospect description						
The educations to an employed		d = b = = = = 1 1		/ h / d / h - h / h	- (1450) The el	
The primary target is an amalgan tracks from the NW to the SE bo						
are low relief channel-levee depo						
of dip and stratigraphic.	ide and a design			The first seed to a		II Disal
Two zones of interest have been field, M87 in age and producing b						
the Macondo wellbore. The Mac						
bedded reservoir charged with hy The second zone of interest is th		etion balaw	the MEC com	and target. The curre	ent apploais mod	al pradicts the
absence of any lower Miocene re					하기 위에 가는 사람이 있는 것이 없는데 하나 있다.	
However, there is the chance of	channel-levee	overbank (	deposits thinn	ing up and over the I	Macondo 4-way.	
Current volume estimates do not	deem these z	ones of inte	erest as being	commercially viable		
Unrisked In-place	185.0	mmbls	Pos (%)	67%		
					The second second	
			Total Risk	ed Resource	43	mmboe
Total Unrisked Resource				ed Resource P90-P50-P10	43	mmboe
Total Unrisked Resource Resource range:	64.0	mmboe		P90-P50-P10	43	mmboe
Total Unrisked Resource Resource range: Critical risk	64.0 44.0	mmboe 64.0	86.0	P90-P50-P10		
Total Unrisked Resource Resource range: Critical risk Charge Access Critical risk description The critical uncertainty of the Mabelow the M56 which could act a suggests that the Middle Miocenthydrocarbon bearing reservoir to delivers 135-170 mmstb of medic	Critical ris	k %  ct is charge ir hydrocart terval is charge ack: Charg	79% access. The con migration arged. The top a Access is the	Working Interest uncertainty lays in the target reservoire-down seismic ample only significant risk	he possibility of ir zone. The lates itude work is cor c. The principal of	100.0% permeable beds st PeST work asistent of charge model
Total Unrisked Resource Resource range: Critical risk Charge Access Critical risk description The critical uncertainty of the Mabelow the M56 which could act a suggests that the Middle Miocene hydrocarbon bearing reservoir to delivers 135-170 mmstb of medic charge is predicted	Critical ris	k %  ct is charge ir hydrocart terval is cha ack: Charg the reserve	79% access. The top on migration arged. The top e Access is the top after trap for after trap for a few access.	Working Interest uncertainty lays in the target reservoiredown seismic ample only significant risk transition; an addition	he possibility of ir zone. The lates itude work is cor c. The principal of	100.0% permeable beds st PeST work asistent of charge model
Total Unrisked Resource Resource range: Critical risk Charge Access Critical risk description The critical uncertainty of the Mabelow the M56 which could act a suggests that the Middle Miocenthydrocarbon bearing reservoir to delivers 135-170 mmstb of mediacharge is predicted  Is this likely to be a hig	Critical ris  condo prospe s thief beds for e M56 sand in o. XX Feedb um GOR oil to	k %  ct is charge in hydrocart terval is charge the reserved in the reserved i	79% access. The top on migration arged. The top e Access is the top after trap for after trap for a few access.	P90-P50-P10  Working Interest uncertainty lays in the target reservoire-down seismic ample only significant risk primation; an addition	he possibility of ir zone. The lates itude work is cor to The principal of al 20-30 mmboe	100.0% permeable beds st PeST work sistent of charge model biogenic gas
Total Unrisked Resource Resource range: Critical risk Charge Access Critical risk description The critical uncertainty of the Mabelow the M56 which could act a suggests that the Middle Miocenthydrocarbon bearing reservoir to delivers 135-170 mmstb of medicharge is predicted  Is this likely to be a hig Water depth/elevation	64.0 44.0 Critical ris condo prospe s thief beds for e M56 sand in o. XX Feedb um GOR oil to	k %  ct is charge in hydrocart terval is ch ack: Charg the reserve	79% access. The top on migration arged. The top e Access is the price of the following after trap for after trap for a feet and the following access to the feet are for a feet and the feet are feet as a feet a fe	P90-P50-P10  Working Interest uncertainty lays in the target reservoiredown seismic ample only significant risk primation; an addition real?	he possibility of ir zone. The lates itude work is core. The principal of all 20-30 mmboe	100.0% permeable beds st PeST work sistent of charge model biogenic gas
Total Unrisked Resource Resource range: Critical risk Charge Access Critical risk description The critical uncertainty of the Mabelow the M56 which could act a suggests that the Middle Miocene hydrocarbon bearing reservoir to delivers 135-170 mmstb of medic charge is predicted	Critical ris  condo prospe s thief beds for e M56 sand in o. XX Feedb um GOR oil to	k %  ct is charge in hydrocart terval is ch ack: Charg the reserve	79% access. The top on migration arged. The top e Access is the price of the following after trap for after trap for a feet and the following access to the feet are for a feet and the feet are feet as a feet a fe	P90-P50-P10  Working Interest uncertainty lays in the target reservoire-down seismic ample only significant risk primation; an addition	he possibility of ir zone. The lates itude work is cor to The principal of al 20-30 mmboe	100.0% permeable beds st PeST work sistent of charge model biogenic gas

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# 2 Location data

Country	USA	USA					
Basin	Gulf of N	Gulf of Mexico					
Datum	NAD 27 CONUS						
Projection	UTM 16	UTM 16N					
Latitude	28 44 17.28 North						
Longitude	88	21	57.34	West			
X	1202803	1202803.88					
Y	10431617						
Depth to primary crest	18120 ft						
Depth to primary contact	18785	ft					
Water Depth	4992	ft					
Licence Designation	MC0252						
Distance to shore	47	Miles	Comment				
Distance to Nearest Facility	99	Miles	Distance to shore I	Port of Fourchon, LA			

# 3 Regional Context

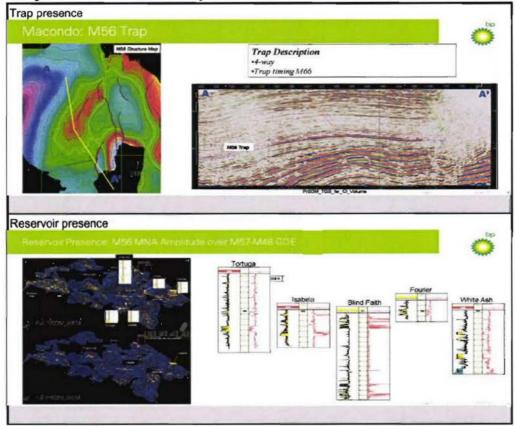
Play Fairway Description:	
The Macondo prospect reservoir was deposited in a mid to lower slope setting where Miocene sand systems generally tre in a northwest to southeast direction. A number of the Miocene systems track up and over broad Mesozoic turtle structure setting up traps with stratigraphic and dip elements. The sand systems are predominantly broad low relief channel levee systems that are amalgamating. These systems periodically are incised by mudfill channels which generate the stratigraphing element.	es
Play Fairway Risks	
Individual channel systems could be below seismic resolution so additional stratigraphic complexity possible.	
Play Success Rate: (%)	67%

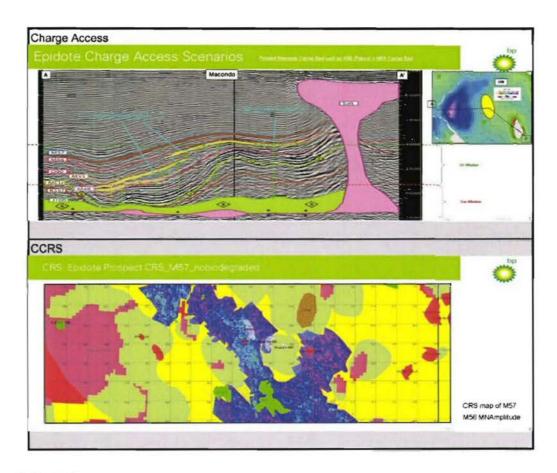
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## Regional Context:

MC contains numerous Mesozoic turtle structures younging in the southwest direction. Surface expression of the turtles contains erosional scours, slumps, and incised valleys trending NW to SE which set up accommodation space for Miocene turbidite systems entering from the NW.

4 Key GDE or CCRS maps





# 5 Database

5.1 Seismic

Survey Name	Acquired	Processed	Туре	Comments
TGS Revival	1999	Kirchhoff 7	Spec	Corridor stacks raw and a
TGS Revival	1999	WEM Dep	Spec	Corridor stacks raw and a
TGS Revival	1999	RTM and I	2009 Prop	Full anisotropic re-process
Seismic comments				
Seisine comments				•
Seisinic Comments				

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# 5.2 Velocities

### 5.3 Wells

Well Name	Year	Distance	Units	Comment	Status
MC0562_1BP1	2007	21.8	Miles	Isabela	Discovery
MC0561_2BP1	2008	23.5	Miles	Tortuga	Shows
MC0519_1	2009	21	Miles	Santa Cruz	Discovery
MC0252_1BP2	1999	2.8	Miles	Rigel	Discovery
MC0296_SS01_BP1	2003	3	Miles	Rigel	Discovery
MC0392 1	2001	26.3	Miles	White Ash	Dry hole

#### Wells Comments

MC0562\_1 Isabela encountered a 40 gas sand of effective reservoir at the M56. At the M55, the well penetrated 90 blocky oil sand of effective reservoir. MC0561\_28P1 Tortuga encountered 165 ft net sand of effective reservoir at the M55 (wet). The well penetrated 30 feet of net sand at the M56 followed by two small pay stringers (~5ft). MC0392\_1 White Ash encountered 295 ft net of effective reservoir between the M56 and M48. The Santa Cruz well, Isabela offset, encountered hydrocarbon bearing reservoirs in the M89, M56 and M55. Total pay for the Santa Cruz well are: M89 ~130ft, M56 ~124ft, and M55 ~47ft. The Rigel well MC0296\_SS01\_BP1 is producing from a 50 ft gas bearing reservoir of M89 age.

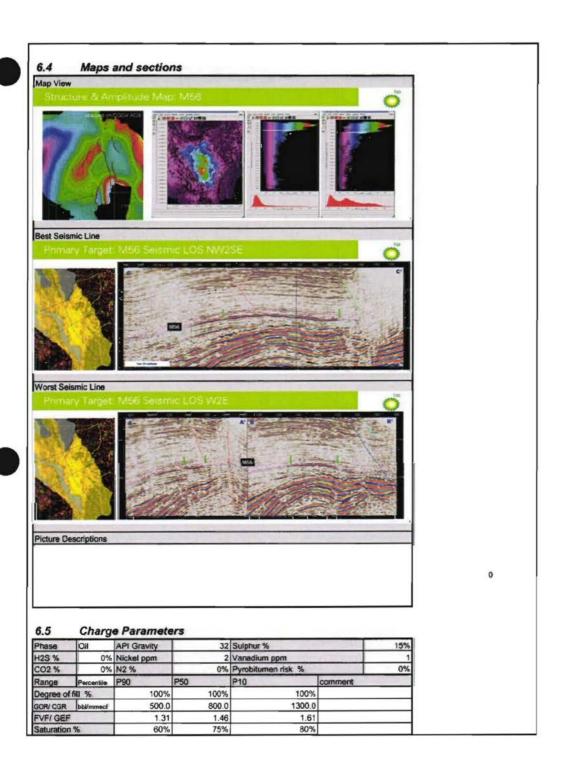
5.4 Key reports

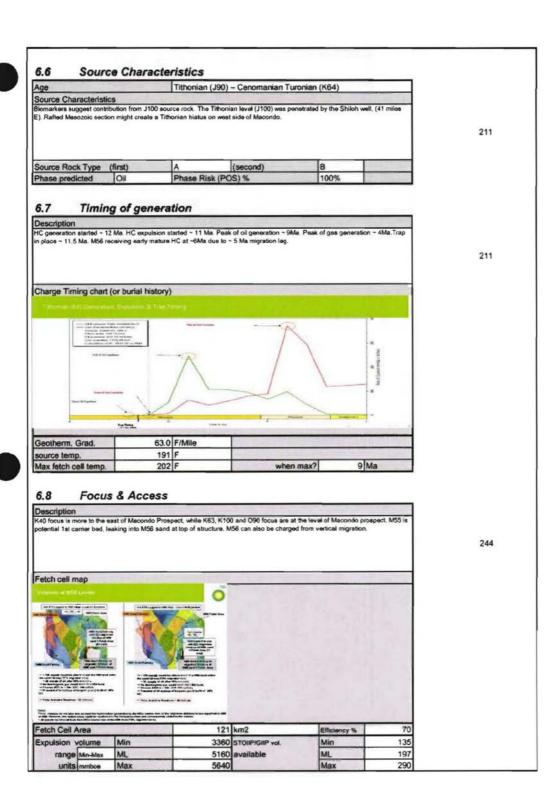
	or represent		
Author	Year	Title	

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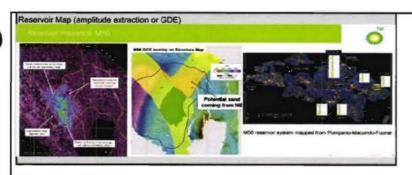
6 S							
NZ. 255	egme	ent	1	- 2			
6.1 St	umma	ary		Copy?			
Segment descri							
				m of Middle Miocene age (N alongated Mesozoic ridge. 1			
hannel-levee depo tratigraphic.	osits with a	adequate vertical s	nd lateral connectivit	ty. The trapping elements a	e a combination of	of dip and	
							393
ritical risk des	scription						
				uncertainty lays in the posai eservoir zone. The latest Pe			
liocene M56 sand	t interval is	charged. The top-	down seismic amplit	ude work is consistent of hy	rocarbon bearing	reservoir too.	612
				pal charge model delivers 1: jenic gas charge is predicted		nedium GOR oil	012
.2 Tr	rap						
ge/name M5	56						
		y critical failure		on cross The cost and cost	winne of Manne 4	arm defined as	
rabgraphic edges				e crest. The east and west and the southern portion spill			
est Ear.		17	777			72	
							271
							211
		Contact depth		Contact description (s	pill, leak etc.)		
18120 ft		Contact depth 18785		Spill	pill, leak etc.)		
18120 ft	rea	18785	ML Gross interv	Spill al Thi <b>ckness</b>	pill, leak etc.)		
18120 ft IL Closure A	Area 4498	18785 acres		Spill al Thi <b>ckness</b>	pill, leak etc.)	Lateral Seal	
18120 ft IL Closure A	Area 4498	18785	ML Gross interv 42	Spill al Thi <b>ckness</b>	1	Lateral Seal	
18120 ft  IL Closure A  rap Element Direction)	Area 4498	18785 acres	ML Gross interv 42	Spill al Thi <b>ckness</b>	Trap	PoS %	
18120 ft AL Closure Ar Trap Element Direction)	Area 4498	18785 acres Description Dip Dip	ML Gross interv 42	Spill al Thi <b>ckness</b>	Trap POS % 100%	PoS % 100% 100%	
18120 ft ML Closure Ar Trap Element Direction) Jorth South	Area 4498	18785 acres Description Dip Dip Strat Edge	ML Gross interv 42	Spill ral Thickness ft	Trap POS % 100% 100% 85%	PoS % 100% 100% 100%	
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18120 ft IL Closure Arrap Element Direction) orth outh ast	Area 4498	18785 acres Description Dip Dip Strat Edge	ML Gross interv 42 Failure mode	Spill val Thickness ft	Trap POS % 100% 100% 85%	PoS % 100% 100% 100% 100%	
18120 ft L Closure Ai rap Element Direction) orth outh ast	4498	18785 acres Description Dip Dip Strat Edge Strat Edge	ML Gross interv 42 Failure mode	Spill val Thickness ft	Trap POS % 100% 100% 85% 100%	PoS % 100% 100% 100% 100%	
18120 ft IL Closure Ai rap Element Direction) orth outh ast //est	Area 4498	18785 acres Description Dip Dip Strat Edge Strat Edge	ML Gross interv 42 Failure mode	Spill val Thickness ft	Trap POS % 100% 100% 85% 100%	PoS % 100% 100% 100% 100%	
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18120 ft IL Closure Ai rap Element Direction) borth bouth asst Vest  Description (inc eals are capillary	op/Ba	18785 acres Description Dip Dip Strat Edge Strat Edge see Seal cy critical failure	ML Gross interv 42 Failure mode	Spill val Thickness ft ft Overa	Trap POS % 100% 100% 85% 100% 107 107 107 107 107 107 107 107 107 107	PoS % 100% 100% 100% 100% 0.85	
18120 ft IL Closure Ai rap Element Direction) outh ast Vest  Description (included are capillary	op/Ba	18785 acres Description Dip Dip Strat Edge Strat Edge see Seal cy critical failure	ML Gross interv 42 Failure mode	Spill val Thickness ft ft Overa	Trap POS % 100% 100% 85% 100% 107 107 107 107 107 107 107 107 107 107	PoS % 100% 100% 100% 100% 0.85	
18120 ft IL Closure Ai rap Element Direction) borth bouth asst Vest  Description (inc eals are capillary	op/Ba	18785 acres Description Dip Dip Strat Edge Strat Edge see Seal cy critical failure	ML Gross interv 42 Failure mode	Spill val Thickness ft ft Overa	Trap POS % 100% 100% 85% 100% 107 107 107 107 107 107 107 107 107 107	PoS % 100% 100% 100% 100% 0.85	147
18120 ft IL Closure Ai rap Element Direction) outh ast Vest  Description (included are capillary	op/Ba	18785 acres Description Dip Dip Strat Edge Strat Edge see Seal cy critical failure	ML Gross interv 42 Failure mode	Spill val Thickness ft ft Overa	Trap POS % 100% 100% 85% 100% 107 107 107 107 107 107 107 107 107 107	PoS % 100% 100% 100% 100% 0.85	147
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18120 ft AL Closure Ai  frap Element Direction) Jorth Jouth Jorth Joseph Ai	op/Ba	18785 acres Description Dip Dip Strat Edge Strat Edge see Seal cy critical failure	ML Gross interv 42 Failure mode	Spill val Thickness ft ft Overa	Trap POS % 100% 100% 85% 100% 107 107 107 107 107 107 107 107 107 107	PoS % 100% 100% 100% 100% 0.85	147
18120 ft ML Closure Ai Trap Element Direction) Jorth South East Vest  5.3 To Description (inc eals are capillary ruz (MC0519_1) v	op/Ba	18785 acres Description Dip Dip Strat Edge Strat Edge see Seal ry critical failure	ML Gross interv 42 Failure mode	Spill rail Thickness ft  idity  Overa	Trap POS % 100% 100% 85% 100% 107% 100% 85% 100% 100% 100% 100% 100% 100% 100% 10	PoS % 100% 100% 100% 100% 0.85	147
18120 ft IL Closure A  rap Element Direction) forth iouth ast Vest  Column Height	fop/Ba	18785 acres Description Dip Dip Strat Edge Strat Edge see Seal sy critical failure ociated with intra-fo	ML Gross interv 42 Failure mode lateral permeab	Spill rail Thickness ft  dility  Overa	Trap POS % 100% 100% 85% 100% 17rap POS %	PoS % 100% 100% 100% 100% 0.85	147
AL Closure Ai  rap Element Direction) Jorth Jort	op/Ba ciude an seals assi	18785 acres Description Dip Dip Strat Edge Strat Edge see Seal sy critical failure ociated with intra-fo	ML Gross interv 42 Failure mode lateral permeab	Spill rail Thickness ft  idity  Overa	Trap POS % 100% 100% 85% 100% 17rap POS %	PoS % 100% 100% 100% 100% 0.85	147
18120 ft AL Closure Ai frap Element Direction) Borth Booth Bost Bost Bost Bost Bost Bost Bost Bost	op/Ba ciude an seals assi	18785 acres Description Dip Dip Strat Edge Strat Edge see Seal y critical failure ociated with intra-fo	ML Gross interv 42 Failure mode lateral permeab	Spill rail Thickness ft  dility  Overa	Trap POS % 100% 100% 85% 100% 17rap POS %	PoS % 100% 100% 100% 100% 0.85	147
18120 ft IL Closure Ai rap Element Direction) forth footh sast Vest  3.3 To Description (includes are capillary nox (MC0519_1) v	op/Ba ciude an seals assi	18785 acres Description Dip Dip Strat Edge Strat Edge see Seal y critical failure ociated with intra-fo	ML Gross interv 42 Failure mode lateral permeab	Spill rail Thickness ft  dility  Overa	Trap POS % 100% 100% 85% 100% 17rap POS %	PoS % 100% 100% 100% 100% 0.85	
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### 6.9 Source presence and charge access risks Source presence Critical Risk Description POS % 100% Western basin potentially rafted removing minimal amount of source rock. Blomarkers analysis suggests significant of from J100 source rock. All Nakike fields have additional biogenic gas charge, with yields varying from 1-5 BCF/Km2. 242 Charge Access Critical Risk Description POS % 79% The critical uncertainty of Macondo prospect is charge access. The uncertainty lays in the possibility of lower permeability beds which could act as their beds for hydrocarbon migration to the M56 reservoir zone. The latest PeST work suggests that the Middle Miccene M58 sand interval is charged. The top-down seismic amplifude work is consistent of hydrocarbon bearing reservoir too. 385 6.10 Reservoir parameters Environment of Deposition Description Work on the MS6 and deeper systems recognize more laterally extensive amalgamated and systems that were subsequent incised by mud filled channels. GDE is slope channel facies. The reservoir thickness was calculated using SNPQ and are reflected as average NRV. Production at well (60-95-120)ft. 298 Range Percentile P90 P50 P10 Gross thickness 25 42 44 44 25 42 Net thickness Net to gross % 100% 100% 100% Porosity % 17% 23% 28% Permeability mD 20.0 500.0 1001.0 Reservoir Presence 6.11 Description (include any critical failure modes) AVO signature supports presence of sand-prone system. Extrasalt amplitude mapping of reservoir Fourier fields. These maps are fied to offset wells with logs that show reservoir presence. POS % 100% 211



## 6.12 Reservoir Deliverability

Description (include any critical failure modes)

Rock and fluid properties are both favorable, with initial rates of approximately 18 mboeld expected based on modeling.

Conceptual field development is based on three wells with an average well drainage of 1500 acres, which is at the upper limit of benchmarking data. Despite the large well spacing, effective resource recovery from the proposed well locations should be possible, in the absence of compartmentalization, due to the wells' createl positions in the thickest areas of the reservoir.

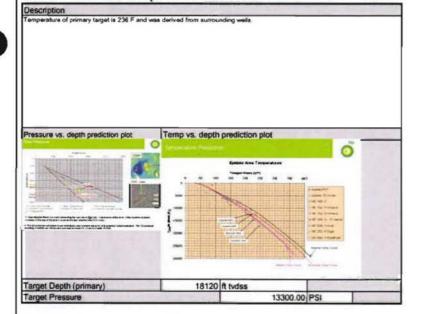
Compressibility and compartmentalization are therefore the main deliverability risks.

584

78

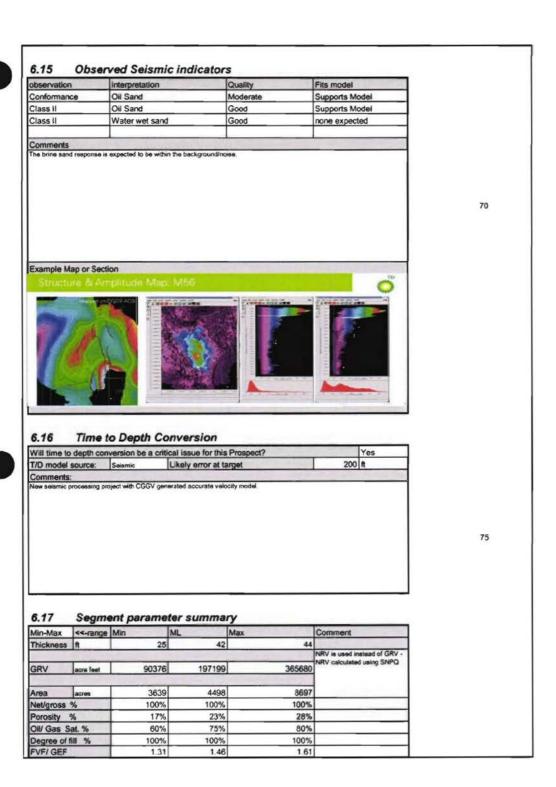
Reservoir Temp.		236	F		
Min-Max	range	Min	ML	Max	Comment
Recovery	Factor %	15%	30%	45%	Na Kika analogue

# 6.13 Pressure/ Temperature Prediction



# 6.14 Expected Seismic Indicators

Should See Hydrocarbons? Background Lithology		Yes Shale		
Lithology+ Fluid	Near Al Co	ontrast	AVO Class	
Water wet sand	Soft		Class II	
Oil Sand	Soft		Class II	
Gas Sand	Soft		Class II	



#### 6.18 Recovery factor Min-Max <<-range Min ML Recovery Factor % 15% Max Comment Recovery Factor % 45% Na Kika analogue 6.19 Volumetrics Percentile <<-range P90 P50 P10 Mean STOIIP mmbls 138.00 181.00 239.00 185 Resource mmboe 44.00 64.00 86.00 64 Comments 6.20 Risk Risk PoS % Trap 85% Seal 100% Source Presence 100% Charge Access 79% Phase 100% Reservoir presence 100% Reservoir Effectiveness 100% Overall Chance of success 67% Top Govern County allians Seeks recepted or said. In color recepted or said. In COM date review miles and disease in term. In color recepted or said. Consequence of State and a second

			-	
altion m3	cre feet.			
is Mode m	none expected acre feet			
DH Coultry Mouat? volume Fatspot Good Supports Model mislor m3 Conformar Moder are Contradicts my million ft3	notion of the or			
Ocean Good at Modera	ğ			
Flatspot Conform	Hard A. Soft A. Nothing	Class III	Class IV unknown	
AVO? No AVO Class I	Chass III	Class IV		
	Soft			
Backgroun Al Shale Hard Carbonate Zero	Fight Same, infertown			
	Open	. 1		
Shale Yes Water well No	09 Sand unknown Trgit Sant Soft Class II Gas Sand Wel Sill Class III Class III	Gas Sitt Carbonale Gas Carbonale	Hatile Hatile Bissament Volenics Unconformity Uniform	
	008	9 309	1 2 4 5 0 5 3	
Mass Ber Mass Mass				+
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S < D	00 11	Brogeri		
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Dass Oas	Condensa			
direction usp element North Dip North-East Fault	East Stret Edge Condensal Wergas C South-East Combination Condensal D South South	South-West Diagenetic West Hydrodynamic North-West Sett West		
op O Ope	Streil Subs	South-West Diagenetic West Hydrodyna North-West Sett West		
North-E North-E	South- South- South	West North-V		
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