

DRILLING FLUID REPORT

Report # 48 Date : 25-Oct-2006

Rig No 32 Spud : 8-Sep-2006

Depth 3688 to 3700 Metres

N drilling fluids						Jſ	• 1				Dept		3688	to	3700		res	,,,		
OPERATOR BEACH Petroleum LTD							CO	CONTRACTOR			Depth 3688 to 3700 Metres ENSIGN Int'l Energy SVCs									
REPORT FOR Brian Marriott - Scott Healey							REPORT FOR				Andy Baker									
WELL NAME AND No								FIELD			LOCATION				STATE					
GLENAIRE # 1 ST1								PEP 160					Y Basin	VICTORIA						
DRILLING ASSEMB	LY J	ET SIZE	C	ASING			VOLU	VOLUME (BBL)					CIRCUI	LATIC	ON DATA					
BIT SIZE TYPE							380 PITS						Inches		CIRCULATION PRESS (PSI) 2350 psi					
DRILL PIPE TYPE	TYPE Length 9 5/8 INTERMEDIATE 41		DIATE 4107	7 ft TOTAL C		IRCULATING VOL.		-	PUMP MODEL		ASSUMED EFF			воттомѕ						
SIZE 3.5 15.5 DRILL PIPE TYPE						915 IN STORAGE			3 x NAT 8-P80 BBL/STK			97 STK / MIN	% UP (min) TOTAL CIRC.			65	min			
SIZE 3.50 HW 86 Mtrs LINER Set @ 2999										0.0516				95 TIME (min)				min		
DRILL COLLAR SIZE (") Length MUD TYPE 4.75 161 Mtrs 5% KCI-P						HPA-POLYMER				BBL/MIN GAL / MIN ANN VEL. DP 206 Tur 4.76 200 (ft/min) DCs 364 Lar										
57 TO 1014						MUD PROPERTIES				7.		JD I			ECIFICATI			1		
SAMPLE FROM						Below Shkrs						l	API Filtrate		6 - 8 HPHT Filtrate			NA		
TIME SAMPLE TAKEN						11.30		17.30		ic Vis	ALA		Yield Point		8 - 15	pH Outstites		.0 - 9.5		
DEPTH (ft) - (m) Metres					<u> </u>	97	<u> </u>	700	KCI		>5%	ó	PHPA	D) / 4 T	0.75 - 1.5	Sulphites	8	0 - 120		
FLOWLINE TEMPERATURE ° C ° F WEIGHT ppg / SG					55 11 15	1 330	54 11 10	1 224	Incre	eased Pag	c-l V ac	lditir	OBSE ons as fluid		IONS was again	showing	an incre	asino		
WEIGHT ppg / SG FUNNEL VISCOSITY (sec/qt) API @ C						9			tren		o Ev al	uill	ono ao nun	. 1033	was agaill	Jijowiiig	an 111016	عا الحمد		
PLASTIC VISCOSITY (Secret) API @ 55 °C						3			Barite used to build a 70 bbl (with 10 bbl dead volume) slug of 14.5 ppg											
YIELD POINT (lb/100ft²)						13		13		d to spot a	at 1000	m s	so as to giv	ve an	equivalent	hydrostat	ic below	v the		
GEL STRENGTHS (lb/100ft ²) 10 sec/10 min						7		6	shoe	of 11.6 p	ppg.									
RHEOLOGY q 600 / q 300						26	39	26												
RHEOLOGY q 200 / q 100						14	20	14	1											
RHEOLOGY q 6 / q 3 FILTRATE API (cc's/30 min)						.8	3	2 3.4	1											
HPHT FILTRATE (cc's/30 min) @ F									1											
CAKE THICKNESS API : HPHT (32nd in)							1	1	1											
SOLIDS CONTENT (% by Volume)						.7		.6												
LIQUID CONTENT (% by Volume) OIL/WATER						91.3		92.4												
SAND CONTENT (% by Vol.)						r	Tr		Wiper trip to 3690 m - 65 k over pull.											
METHYLENE BLUE CAPACITY (ppb equiv.)						6.5 9.0		6.5		RIH - wash to bottom and no fill.										
pH ALKALINITY MUD. (Pm)						.U	9	9.5		Circulate hole clean and POH to shoe for repairs to top drive.										
ALKALINITY MUD (Pm) ALKALINITY FILTRATE (Pf / Mf)						0.15 1.10		0.20 1 40		RIH - wash to bottom and no fill. Drill ahead to Total Depth of 3700 m.										
CHLORIDE (mg/L)						160,000				Circulate hole clean and POH wiper trip to 3400 m - 40 k max over pull.										
TOTAL HARDNESS AS CALCIUM (mg/L)						80				RIH and circulate bottoms up - 3000 units gas.										
SULPHITE (mg/L)						150		150		POH to shoe and pump heavy weight slug.										
K+ (mg/L)						42,000		42,000			m and	pum	np 60 bbls	14.5	opg slug.					
KCI (% by Wt.)						8.0 0.79				l.										
PHPA (ppb)						19	0	.79	1											
		Mu	d Accountir	ng (bbls)	<u> </u>		<u> </u>					S	olids Cor	trol F	quipment					
Mud Accounting (bbls) FLUID BUILT & RECEIVED FLUID DISPOSED						SUMI	MARY	MARY		Type Hr				Cones	Hrs	1	Size	Hrs		
Premix (drill water) Desander				INITIA	L VOLU	/IE 941		Ce	entrifuge		3	Desander			Shaker #1	4 x 310	13			
Premix (recirc from	sump)		Desilter		<u> </u>				De	egasser			Desilter			Shaker #2	4 x 310	13		
Drill Water			Downhole	14	+	+ FLUID RECEI														
Direct Recirc Sump			Dumped	10	- FLUID LOST		26		1	Over		love f	w (ppg)		low (r=z)	Out		in \		
Other (eg Diesel) Other 2				2	+ FLU	ID IN STO	DRAGE	93	Desar	nder	Overflow 10.4		ppg) l	Underflow (ppg) 21.0		Output (Gal/Min.) 0.47		ın.)		
TOTAL RECEIVED TOTAL LOST 26					FINAL VOLUME			1,008							0		v.+1			
Product	Price	Start	Received	Used		ose	Cost		 		ls Anal	ysis	L \$		t Hydraulio	cs & Pres	sure D	ata		
AMC Biocide G	\$ 185.35	9		1		B	\$	185.35				%	PPB		elocity		44			
AMC PAC-L	\$ 159.98	90		8	8	2			High	ligh Grav solids		6.7	98.61	Impa	ct force		50	0		
Baryte	\$ 8.20	1400		160	1	40		,312.00	_			0.9	8.1	HHP			2			
Caustic Soda	\$ 48.90	24		2	-	2	+		_	Bentonite		0.7	6.4	HSI						
KWIKSEAL - F Sodium Sulphite	\$ 56.39 \$ 33.30	75 25		1	-	4	\$ 56.39 \$ 33.30		-	Drilled Solids		0.2 9.7	1.4 91.5	Bit Press Loss 19						
Xanthan Gum	\$ 359.25	59		1		8	\$ 359.25		_	sait n @ 17.30 Hrs		.58	31.3	CSG Seat Frac Press 2200 ps Equiv. Mud Wt. 13.80 pp			•			
	÷ 203.23			•	T	*			K @ 17.30 Hrs 3.47 ECD 13.60 ppg											
									Max Pressure @ Shoe : 1433 psi											
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					-				-	DAILY COST				CUMULATIVE COST						
RMN ENGINEER	RMN ENGINEER Andre Skujins CIT					Adela	ide Of	fice	<u> </u>	\$3,323.93				\$168,362.85 EPHONE 08 8338 7266						
INVIN LINGINGER	Anur	•	d/or recommendation,		or writton be				and may b	haaad if thaa		harra				00 0	120 120			