

DRILLING FLUID REPORT

Report # 41 Date : 18-Oct-2006 Rig No Spud: 32 8-Sep-2006

N drilling fluids REPORT								•			Rig No	32	Spuc	d :	8-8	ep-200	6		
TA WARRING	SJAMAGES										Depth	3361	to	3418	Me	tres			
OPERATOR BEACH Petroleum LTD								CONTRACTOR				Int'l Ene	rgy S	VCs					
REPORT FOR Brian Marriott - Scott Healey - Ray Ell								ORT	FOR		Andy Baker								
WELL NAME AND No GLENAIRE # 1 ST1							FIELD				LOCAT	ION		STATE					
			PEP	160			OTWAY Basin VICTORIA												
DRILLING ASSEMB				VOLUME (BBL)			CIRCULATION DATA												
						н	353	LE PITS 353 447		5	PUMP SIZE X 8.5	Inches		CIRCULATION PRESS (PSI)		3000	psi		
DRILL PIPE TYPE	Length	•	9 5/8 INTERME	DIATE 4107	ft TOTAL CIR		RCULATING VOL.			PUMP	MODEL	ASSUME		BOTTOMS					
SIZE 3.5 15.5 DRILL PIPE TYPE	# Length	3171 Mtrs	SET (981 IN STORAGE				T 8-P80 /STK		97 % UP (min) STK / MIN TOTAL CIRC.			49	min		
SIZE 3.50 HW	_	86 Mtrs	LINER S					181		0.0516		116 TIME		TIME (min)		169	min		
DRILL COLLÂR SIZE (") Length MUD TYPE 4.75 Length MUD TYPE 5% KCI-PH					JDA DO	I VMEI	ь	•		BBL/MIN 5.81		GAL / MIN ANN VE 244 (ft/min		ANN VEL.	DP DCs	252 445	Tur Tur		
4.75 161 MUS 5% KCI-PF								OPERTIES		5.		PROPERTY SPECIFICAT				445	Tui		
SAMPLE FRO	Below shkrs				Mud V	Veight		API Filtrate		6 - 8	HPHT Filt	rate	N/						
TIME SAMPL	13.00				Plasti	c Vis	ALAP Yield Point 8 - 15 pH				9	9.0 - 9.5							
DEPTH (ft) - (m) Metres						3,393		418	KCI							8	30 - 120		
FLOWLINE TEMPERATURE °C °F							53						ERVAT	IONS					
WEIGHT ppg / SG						+			-		d weight a								
FUNNEL VISCOSITY (sec/qt) API @ C						5		35	- 1	•		•	•	further pre					
PLASTIC VISCOSITY cP @ 55 ° C						0		10	4	nitially, premix had no Pac-LV added as fluid loss was very stable below									
YIELD POINT (lb/100ft²) GEL STRENGTHS (lb/100ft²) 10 sec/10 min						3		9	-	,	Miday check however showed an increasng trend so 3 sacks Pac-LV								
	1			were added to premix. Fluid loss subsequent							me back d	own and							
RHEOLOGY	28	18	29	19	1 ''	appears stable. Potassium is being continually topped up as there is some depletion occurring													
RHEOLOGY	14 2	10 1	15 2	10 1	Potas	ssium is be	eing contin	ually toppe	u up as	inere is so	rne deple	ion occui	rring.						
FILTRATE AF	6.			5.5	1														
HPHT FILTRA	, .				1														
	1		1	1															
CAKE THICKNESS API : HPHT (32nd in) SOLIDS CONTENT (% by Volume)						9.8		9.8		1									
LIQUID CONTENT (% by Volume) OIL/WATER						90.2		90.2		OPERATIONS SUMMARY									
SAND CONTENT (% by Vol.)						r	1	Tr Di		Drill / slide to 3386 m. Tight hole at 3385 m - 40 k max over pull.									
METHYLENE BLUE CAPACITY (ppb equiv.)						10.0		9.0		Circulate bottoms up, pump heavy weight pill and POH wiper trip.									
pH						0	9	9.0 P		POH to 3280 m - max OP of 25 k. Pump out 3280 - 3251 m. Hole									
ALKALINITY MUD (Pm)										tight at 3259 m - max OP of 50 k. POH to shoe.									
ALKALINITY FILTRATE (Pf / Mf)						0.17 0.84				RIH. Wash and ream 3222 - bottom. Pull 25 k OP at 3385 m.									
CHLORIDE (mg/L)						174,000				Wash and ream 3 m to bottom.									
TOTAL HARDNESS AS CALCIUM (mg/L) SULPHITE (mg/L)						120 120		140 100		slide to 34	418 m.								
K+ (mg/L)						38,063		36,750											
KCI (% by Wt.)						7.3		7.0											
PHPA (ppb)						0.72		0.74											
(P)						0.12			1										
Mud Accounting (bbls)										Solids Control Equipment									
FLUID BUILT & RECEIVED FLUID DISPOSED					SUMM		MARY	1			Cones		Hrs			Hrs			
Premix (drill water)			Desander		INITIAL VOLUM		1E	950	Ce	ntrifuge		Desander			Shaker #1	4 x 310	19		
Premix (recirc from	sump)	100	Desilter						De	egasser		Desilter			Shaker #2	4 x 310	19		
Drill Water			Downhole 54		+ FLUID RECEIN		VED												
Direct Recirc Sump Dumped 15				15	- FLUID LOST			69	1		0 -	(· ·	11. 1 ~	(- '	1 -	Outmart / 0 1/2**			
Other (eg Diesel) Centrifuge					+ FLUID IN STOR		RAGE	181	Centri	fuac	Overflow	(ppg)	Underflow (ppg)		Outp	Output (Gal/Min.)			
TOTAL RECEIVED 100 TOTAL LOST 69												0							
		100 Stort		69 Used			_	, -	Desilt		o Anchesis		_		00 8 0==	oure D-	to		
Product	Price \$ 185.35	Start 6	Received	Used 1	Clo 5		\$	185.35	1	30110	s Analysis	PPB		it Hydrauli elocity	us a Pres	sure Da			
AMC Biocide G AMC PAC-L	\$ 159.98	42		3	39		\$		Hiah (Grav solids	5.5	81.09	_	ct force		12			
AMC PAC-L	\$ 118.90	38		2	3(\$	237.80				40.6	+	ННР		12			
Baryte	\$ 8.20	1168		384	78		<u> </u>		_		4.3 0.6	5.4	HSI			0.4			
Caustic Soda	\$ 48.90	21		1	20		\$	-	-	lled Solids		33.6	_	Bit Press Loss		83			
Potassium Chloride (\$ 18.95	210		84	12	26	\$ 1	1,591.80	Salt			99.0				2200			
Sodium Sulphite	\$ 33.30	38		3	3	35 \$		99.90	n @ 2	n @ 23.45 Hrs			Equiv. Mud Wt. 13.80			ppg			
Xanthan Gum	nthan Gum \$ 359.25 68			2	6	6	\$ 718.50 K		K @ 23.45 Hrs 2.17 ECD 11.80 ppg						ppg				
											Max Pressure @ Shoe : 1279					psi			
									1										
									<u> </u>										
	<u> </u>	 						<u> </u>	DAILY 0007										
										DAILY COST \$6.510.99			CUMULATIVE COST \$145,308,08						
DMN ENGINEES	IMNI ENCINEED Andre Civilina CITY					Adelaide Office				\$6,510.99				\$145,398.08 EPHONE 08 8338 7266					
RMN ENGINEER	Andre	Skujins	on and/or recommenda	CITY											08 8	ააგ /26	0		