

DRILLING FLUID REPORT

Report # 36 Date : 13-Oct-2006

Rig No 32 Spud : 8-Sep-2006

Donth 2119 to 3169 Metros

M drilling fluids REPORT											Rig No		32	Spu			ep-200)6
OPERATO	BEACH P			CON	TOP	Depth		3119	to		iviet	Metres						
REPORT				RRIOTT - S	CONTRACTO REPORT FOR					ENSIGN Int'l Energy SVCs Andy BAKER								
WELL NAI		ID No	Dilaii MA	INICOTO - C	FIELD				OIL	LOCATION STATE								
			GLENAI	RE#1ST	PEP				OTWAY B				· · · · · · · · · · · · · · · · · · ·					
DRILLING ASS	ET SIZE	MUD VOLUME (BI																
	T SIZE				ft	НО		PITS										
DRILL PIPE TY		Length		9 5/8 INTERME	DIATE 4107		OTAL CIF	329 402 CULATING VOL.			5 X 8.5 PUMP MODEL		ASSUMED EFF		BOTTOMS 3		3050	psi
SIZE 3.5 15.5 # 3253 Mtrs SET @ 1252 DRILL PIPE TYPE Length 7 PRODUCTION/ 9839					M ft		731 IN STORAGE			3 x NAT 8-P80 BBL/STK@ 100%		97 STK / MIN	%	UP (min) TOTAL CIRC.		50	min	
SIZE 3.50 HW 86 Mtrs LINER Set @ 2999								183		0.0516			1	18	TIME (min)	in) 154		min
DRILL COLLAR SIZ	161 Mtrs	UDA DO	N VMI	ED		BBL/MIN		GAL / MIN			ANN VEL.	DP DCs	256 452					
	.101 mns	HPA-PC		OPERTIES		5.91 M UE		UD I	248 D PROPERTY S		(ft/min)							
SAMPLE	FROM									Mud Weight >=10.3			API Filtrate		6 - 8 HPHT Filtrate			NA
TIME SAI			14.15		23.00		Plastic Vis					8 - 15	рН					
DEPTH (ft) - (m) Metres						3,1	50	3,′	165	KCI	>5%		PHPA		0.75 - 1.5	Sulphites	8	80 - 120
FLOWLIN	IE TEM	PERATU	IRE		°C °F ppg/SG	51	124	52	126				OBSE					
WEIGHT	/ () ABI (Salt added directly to mud system to increase mud weight o						ght over o	ne					
FUNNEL PLASTIC	ec/qt) API @	36				circulation after well was seen to be flowing slightly. Salt added to premix to pre-weight it to 10.3 ppg.												
YIELD PO		10 9 5 6				Premix being added to slowly build tank volume and to maintain properties.												
			<i>)</i> 00ft ²) 10 se	ec/10 min	13			3										
RHEOLO	300	25	15	24	15	Maintaining yield point at relatively low levels so as to minimise drill string pressure losses.												
RHEOLO	100 p	11.5	7	11.5	7	Despite low yield point, hole cleaning not compromised due to high annular												
RHEOLO	3	1	1	1	1	velocities.						_						
FILTRATI		•	•		6.	5	6	.6	Will be maintair	Will be maintaining mud weight at or above 10.3 ppg.								
			30 min) @	0 - 4 !>	4													
	: HPHT (3 by Volume)	1 8.0	 n	1 7	 a													
LIQUID C	by Volume)		0.0	92.0		7.9 OPERATIONS SUMMARY												
SAND CC		Tı				RIH to 3054 m. Wash to bottom.												
METHYLI	ACITY (pp	12.5		i``		Drill / slide to 3169 m.												
pН		10.	.0			Slight flow, afte	Slight flow, after high gas readings, was experienced at 3127 m with											
ALKALIN	1)	0.3				a mud weight at the time of 10.2 ppg.												
ALKALIN	(Pf / Mf)		0.98	0.24	•	Increased mud weight to 10.3 ppg.												
CHLORID TOTAL H	CALCIUM	129,9 40				Elevated Gas readings at 3153 m (2900 units), 3153.76 m (1200), 3154.27 m (80), 3156 m (230), 3157 m (510) and 3159 m (185).												
SULPHIT	ALOION	120		100		5157.27 iii (00), 5150 iii (250), 5157 iii (510) aliu 3159 iii (165).												
K+ (mg/		65,625		60,375														
KCI (%		12.5		11.5		<u>, </u>												
PHPA (pp		0.82		0.84														
Mud Accounting (bbls) FLUID BUILT & RECEIVED FLUID DISPOSED							SUM	MARY		Туре Н		Irs		Cones Hrs		FLC 514	Size	Hrs
Premix (drill water)				Desander	INITIAI	VOLUM		833	Centrifuge [21	Desander			Shaker #1	4 x 310		
Premix (recirc from sump)			110	Desilter			VOLUIII.	_	000	Degasser		6	Desilter			Shaker #2	4 x 310	
Drill Water				Downhole 13		+ FLUID RECEIVE		D	110			7						
Direct Recirc Sump Dumped					10	- FLUID LOST			29		-							
Other (eg Diesel) Centrifuge 6					6	FLUID in STORAGE		E	183	Otulf		,, , , , ,		Underflow (ppg)		Output (Gal/Min.)		
TOTAL RECEIVED 110				TOTAL LOST 20		FINAL VOLUME		ĺ	04.4	Centrifuge	1	10.3		15.6		0.20		
Product	LOCIVE	Price	110 Start	Received	29 Used	Clos		C.	914 ost	67!14	s Analy	sie			Bit Hydrauli	re & Dron	SIIro Da	ata
AMC Biocide G	\$	185.35	10	Received	1	9		\$	185.35	SUIIG		%	PPB		elocity	C3 CK FIES	Sure Da	
AMC PAC-L	\$	159.98	53		5	48		\$		High Grav solids		.8	11.34	_	ct force		7	
AMC PHPA	\$	118.90	42	_	1	41		-		Total LGS	8	.3	78.7	ННР			5	
Salt	\$	8.65	1152		456	69				Bentonite equiv.		.5	4.2	HSI			0.2	
Sodium sulphite	\$ \$	33.30	42		1	41				Drilled Solids		8.	71.4		ress Loss	33 ress 2200 psi		
Xanthan Gum		359.25	76		1	75)	\$	359.25	Salt n @ 23.00 Hrs		68			CSG Seat Frac Press Equiv. Mud Wt.			
										1 @ 23.00 Hrs 0.68 C @ 23.00 Hrs 1.12			Equiv. Mud V		v. IVIUU VVL.	. 13.80 ppg 11.04 ppg		
								N (c									l psi	
														, poi				
	_											LY COST			CUMULATIVE COST			
RMN ENGINEER Andre Skujins (Adelaid	de Offic	ı \$5	5,441.10 \$107,738.56 TELEPHONE 08 8338 726								
INNIA ENGINE		Andre	_		CITY					d may be used if the user s						00 0	000 120	,,,