Daily Drilling Fluid Report

Report No 009

Baroid, a Halliburton Company

Date	13/03/2006	**Depth**	1,043.0 m
Spud Date	05/03/2006	**Rig Activity**	Drilling

Operator Lakes Oil NL	**Report For** Lou De-Vattimo	**Well Name** Loy Yang-2
Contractor Hunt Energy and Mineral Co Australia PTY LTD	**Report For** Dave Hair	**Rig Name** Rig #2
Country Australia	**State/Province/Region** Victoria	**County/Geographic Area** Pacific	**Field or Block** Loy Yang

Bit Information

Bit Size	6.125 in
Make/Type	REED-HYC / SL43HP
Jets	3x12
TFA	0.331 sq-in
Jets Velocity	244 ft/sec
Jet Impact Force	275.6 lbf
HHSI	2.30 hhp/in2
Pres Drop @ Bit	459.6 psi
Bit Depth	1,043.0 m
ECD @ Shoe	8.93 ppg
ECD @ Bit	8.94 ppg

Drill String

ITEM	OD in	ID in	Length m
Drill Pipe	3.500	2.602	902.1
Drill Collar	4.750	2.250	140.9
Open Hole	6.430		823.0

Casing

OD in	Set	MD m
7.000	@	220.0

Form Integrity 14.00 ppg

Circulation/Hydraulics Data

Model	TSM - 500	Co Ems DB-550
Bore in	5.500	5.500
Stroke in	16.000	16.000
Eff (%)	95	95
bbl/strk	.134	.134
SPM	45	
gpm	252	

Total gpm	252	AV, Riser		Circ Pressure psi	1,100.0
Total Circ Time	73.3	AV, DP	64.8	Tot Prs Loss psi	904.3
BU Time, min	15.1	AV, DC	100.4	Pres Drop DP psi	379.0
Total Strokes	3,299	BU Stroke	679	Pres Drop An psi	52.1

Properties	1	2 Hyd	3	4	Targets 1	2	3	4	Program
Source	Suction Tank	Suction Tank							
Time	09:45	22:35							
Depth m	947.0	1,034.0							
FL Temp Deg C	39	43							
Density ppg @ Deg C	8.57 @ 36	8.65 @ 40							8.30 | 9.00
FV @ Deg C	34 @ 36	34 @ 40							
PV @ Deg C	4 @ 49	4 @ 49							
YP lbs/100 ft2	6	7							
Gels lbs/100 ft2	2/3/4	2/3/4							
600/300	14.0/10.0	15.0/11.0							
200/100	8.0/6.0	9.0/7.0							
6/3	2.0/1.0	3.0/1.0							
API Filt ml/30 min	8.4	8.2							
HTHP ml/30 min @Deg C									
Cake 32nd in	1.0/0.0	1.0/0.0							
Corr Solids % by vol	1.3	1.9							
NAP/Water % by vol	0.0/98.1	0.0/97.5							
Sand % by vol	0.10	0.10							
MBT ppb Eq.	1.5	1.5							
pH	9.20	8.80							
Alk Mud (Pm)	0.18	0.10							
Alk Filt (Pf/Mf)	0.08/0.35	0.04/0.30							
Chlorides mg/l	5,500	5,500							
Hard Ca mg/l	200	0							
LGS/HGS %	1.3/0.0	1.9/0.0							
LGS/HGS ppb	11.69/0.27	17.21/0.24							
ASG	2.623	2.614							
KCl % wt/vol -	1.10	1.10							
Sulfite residual mg/l	100	100							

Fluid Treatments

Fluid Type: KCl/Polymer

Daily KCl Mud Volume : 275 bbl (Premix - 230, Water - 45)
Total KCl Mud Volume : 1599.3 bbl

Desilter : Underflow 12.8 ppg, 1.6 bph, 5 cones @ 40 psi.
Dumped sand trap x 4 times. Dumped heavier mud 86 bbl to make room for dilution.
Used sump water to mix mud. Sump water turning black due to fermentation and bacterial action. Stopped use of Sump water.
Drop in viscosity and rheological values due to conserving of chemicals.

Rig Activity

Drilled from 890 m to 948 m, survey at 936 m - 9.5 degrees. Drilled from 948 m to 1043 m.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer	Day(s)			1		$A 1,150.00
N-VIS P PLUS	50 lb bag	36		13	23	$A 390.00
Baracide	25 Kg can	4		1	3	$A 346.07
KCl - Tech.	25 Kg bag	50		13	37	$A 263.38
BARACOR 129	25 Kg can	11		3	8	$A 196.11
potassium hydroxide	20 Kg pail	18		1	17	$A 61.13
BARAZAN D PLUS	25 Kg bag	10			10	
barite	25 Kg bag	160			160	
DEXTRID LTE	25 kg bag	48			48	
PAC-L	25 Kg bag	25			25	

Solid Control Equipment

Shaker	Screens	Hrs
DFE	110 84 50	24.0

Hydrocyclones	Cones	Screens	Hrs
2x12" Desander	2 12		
Harrisburg	8 5		24.0

Time (Hrs)

Drilling	23.50
Circulating	
Trips	
Rig Surveys	0.50
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	
Total	24.00
Rotating	23.50
ROP	6.5
Dil Rate	

Fluid Volume Breakdown KCl/Polymer

Active	bbl	Additions	bbl	Losses	bbl
Annulus	90.7	NAP Base		Dumped	-86.0
Pipe Cap	21.7	Drill Water	272.4	Transferred	
Active Pits	328.0	Dewatering		SC Equip	-76.5
Total Hole	112.4	Sea Water		Evaporation	
Total Circ	440.4	Whole Mud		Trips	
Reserve	14.0	Barite		Other	-25.0
Prev Vol	366.9	Chemicals	2.6	Total Surface	-187.5
Net Chg	87.5	Other Adds.		Downhole	
Total Vol	454.4	Total Added	275.0	Total Losses	-187.5

Daily Products Cost	$A 1,256.69	Total Daily Cost	$A 2,406.69
Cumulative Products Cost	$A 15,040.38	Total Cumulative Cost	$A 26,540.38

Other Fluid Types | **Vol bbl**

Deviation Information

Survey MD	936 m
Survey TVD	936 m
Angle	9.50
Direction	
Horiz Displ.	m

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