

Motor Report for AA Pad, AA16, MWD Run #4, BHA #4
Job Number: AB-CD-12345678

Job Number: AB-CD-12345678	Region: Northwest Territories, Canada	Lease/Block: 07654321
Customer: Anglian Oil Company Ltd.	Field: Northern Lights	UWI No.:
Well Name: AA16	Project: Northern Lights	BHA Type: Hold Angle
Rig Name: Northern Skies III	Structure: AA Pad	

Drilling Summary			
Start Depth: 1,217.15m	End Depth: 1,655.78m	Below Rotary Hours: 22.61hrs	Circulating Hours: 14.44hrs
Total Depth Drilled: 438.63m	Total Drilled Hours: 14.44hrs	Ave. Total ROP: 30.37m/hr	Percent Drilling: 63.89%
Total Rotating: 224.63m	Rotating Hours: 7.20hrs	Ave. Rotating ROP: 31.18m/hr	Percent Rotating: 49.87%
Total Sliding: 214.00m	Sliding Hours: 7.24hrs	Ave. Sliding ROP: 29.56m/hr	Percent Sliding: 50.13%

Pump Details							
#	Model	Liner Size (mm)	Liner Rating (%)	Volume Efficiency (%)	Vol. per Stroke (m ³)	Maximum Pressure (kPa)	Maximum Flow (m ³ /min)
1	National N-1000	140	100.00	100.00	0.02	27,200	1.72
2	National N-1300	152	100.00	100.00	0.03	29,647	2.05
3	National N-1600	152	100.00	100.00	0.02	37,507	2.00

Drilling Parameters					
	Min	Max		Min	Max
WOB (N):	15	16	SPP Off Bottom (kPa):	5,001	5,100
Pick Up (N):	35	40	SPP On Bottom (kPa):	5,017	5,174
Slack Off (N):	35	40	Delta Pressure (kPa):	304	349
Rot. Off Bottom (N):	34	39	Flow Rate (m ³ /min):	2.53	3.00
Bottom Hole Temp (°C):	100.4	109.7	Pump Rate (SPM):	15	20
Rotary Speed (RPM):	29	38	Motor Speed (RPM):	38	48
Surface Torque (N-m):	3,007	3,495			

Bit Record		
Bit Number: 5	Description: 6 5/8in PDC Bit	
Manufacturer: GoodEnuff	TFA: 2591.8mm ²	Jets: 2 x 10, 1 x 20, 3 x 30
Model: True Blue	Bit Diameter: 167mm	Bit Hours: 14.44Hrs.
Type: PDC Bit	IADC#:	Bit Footage: 438.63m
Serial Number: 12345678	Condition: NO - No Dull Characteristics	
Reason for pulling out of hole: Reached TD		

Mud Properties															
Date	Time	Bit Depth (m)	Mud Weight (kg/m ³)	Yield Point (Pa)	Plastic Viscosity (Pa-s)	Funnel Viscosity (Secs)	Chlorides (ppm)	pH	Oil (%)	Gas (%)	Sand (%)	Solids (%)	Water Line (m)	Bot.Hole Temp. (°C)	Flow Temp. (°C)
03 Jan 2015	14:18	1,299.22	1,623.61	10.54	0.02	52	101.71	5.95	0.00	2058.08	0.00	10.45	5.18	105.9	76.7
03 Jan 2015	17:07	1,390.76	1,509.98	10.39	0.02	51	109.24	5.32	0.00	2054.44	0.00	10.08	5.18	108.7	82.0
03 Jan 2015	20:15	1,463.55	1,635.90	10.18	0.02	54	100.44	5.28	0.00	2063.03	0.00	10.67	5.23	106.3	77.0
03 Jan 2015	23:09	1,555.23	1,623.14	10.10	0.02	54	103.61	5.54	0.00	2023.12	0.00	10.96	5.28	100.4	72.5
04 Jan 2015	02:12	1,647.48	1,697.60	10.24	0.02	52	102.22	5.48	0.00	2063.54	0.00	10.07	5.10	109.7	84.2

Motor Properties											
Description: 4 3/4" Motor Lobe 4:5 - 6.3 stg			Motor Type: Motor		Manufacturer: GoodEnuff		Model: PowerPuff		Serial Number: 23456789	Lobe/Stage: 4:5/6.0	
Mud Type: Oil Based Mud			Stabilizer Type:			Rubber Type:			Fit Type:		
Pad OD: 114mm		NB Stabilizer: 114	Bit to Bend: 1.22m	Bend Angle: 2.000°		Pressure Drop: 6,206kPa		Rev. Rate: 2641.72Rev/m ³	Rotor Jet: 12mm		
Motor Footage: 438.63m		Below Rotary Hours: 22.61hrs	Circulating Hours: 14.44hrs		Rotating Footage: 224.63m	Rotating Hours: 7.20hrs	Sliding Footage: 214.00m		Sliding Hours: 7.24hrs		
Proposed Build Rate: 11.811°/30m		Actual Build Rate: 11.811°/30m	Date/Time In: 03/01/2015 8:15 AM	Date/Time Out: 04/01/2015 6:52 AM	Number of Stalls: 0		Stall Duration: 0.00mins	Extended Motor: No			
Motor Failed: No			Condition: Showing signs of fatigue stress								

Motor Discussion
 This is the Motor Comment

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