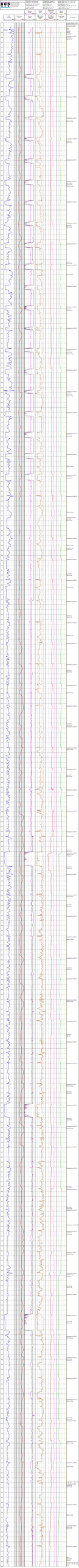

Boxberger Geological Services
0294 Cliff View Circle
Parachute, CO 81635
Phone: 970-285-2494
Fax: 970-285-2492

Operator: Ursa Resources	**Drilling Rig:** Xtreme 15	**Surface Hole:** 1937' FSL x 1965' FWL
Well: BAT 33B-24-07-96	**Ground Elevation:** 5182'	**Bottom Hole:** 2305' FSL x 1997' FEL
Location: Sec. 24 T7S R96W	**KB Elevation:** 5197'	**Drilling Fluid:** LSND
Field: Battlement Mesa	**TVD vs. MD:** 305'	**Dates Logged:** 01/04/14 - 01/06/14
County: Garfield	**Spud Date:** 01/04/14	**Depth Logged:** 2929' - 6050'
State: Colorado	**TD Date:** 01/06/14	**Logger:** Tarin Boxberger

Torque (Ft Lbs) 0.0 15000.0
WOB (Klbs) 0.0 35.0
Stand Pipe Pressure (PSI) 0.0 4000.0
Flow (Percent) 0.0 100.0
ROP (Feet/Hour) 0.0 400.0
Total Gas (Units) 1.0 10000.0
Rotary (RPM) 0.0 60.0
Differential Pressure (PSI) 0.0 750.0
PVT Mud Gain/Loss (Barrels) -100.0 100.0
Total Mud (Barrels) 600.0 800.0

Comments

Logging depth = 2929'. BGS service begins on 01/04/14 at 23:51.

Bit #2
7 7/8
Security
MM55
In at 1827'

Connection at 2941.7'
In: 9.5/45
Out: 9.5/44

Connection at 2984.3'

Connection at 3026.9'

Connection at 3069.5'

Connection at 3112.2'

Pump Sweep

Connection at 3154.8'
In: 9.5/45
Out: 9.6/45

Connection at 3197.5'

Connection at 3240.2'
In: 9.5/44
Out: 9.5/44
Pump Sweep

Connection at 3282.7'

Connection at 3325.2'
In: 9.6/45
Out: 9.6/44

Connection at 3367.9'

In: 9.6/46
Out: 9.6/46
Connection at 3410.6'

Pump Sweep

Connection at 3453.2'

Connection at 3495.8'
In: 9.6/47
Out: 9.5/47

Connection at 3538.5'

Connection at 3581.2'
In: 9.6/45
Out: 9.5/47
Pump Sweep

Connection at 3623.8'

Connection at 3666.5'
In: 9.6/45
Out: 9.5/46
Pump Sweep

Connection at 3709.1'

Connection at 3751.6'
In: 9.6/44
Out: 9.6/47

Connection at 3794.2'

Pump Sweep

Connection at 3836.9'
In: 9.6/44
Out: 9.6/47

Connection at 3879.4'

Pump Sweep

Connection at 3922'
In: 9.6/47
Out: 9.5/48

Connection at 3964.6'

Pump Sweep

Prog Top Gas = 3984' MD

Connection at 4007.2'

In: 9.6/48
Out: 9.6/46

Connection at 4049.8'

Pump Sweep

Connection at 4092.5'

In: 9.7/45
Out: 9.7/46

Connection at 4135.1'

Pump Sweep

Connection at 4177.8'

Connection at 4220.3'
In: 9.8/45
Out: 9.7/46

Connection at 4262.5'

Pump Sweep

Connection at 4304.6'

In: 9.8/45
Out: 9.8/46
Connection at 4346.8'

Connection at 4389.4'
Pump Sweep

Connection at 4432'

In: 9.8/45
Out: 9.8/46

Connection at 4474.6'

Pump Sweep

Connection at 4517.2'

Connection at 4559.8'

Pump Sweep

In: 9.8/38
Out: 9.8/56
Connection at 4602.4'
Transfer Mud
50 Barrels

In: 9.8/39
Out: 9.8/39

Connection at 4645'

Connection at 4687.6'
Pump Sweep

In: 9.8/49
Out: 9.6/52

Connection at 4730.2'

Connection at 4772.7'

Pump Sweep

Connection at 4815.4'

In: 9.8/49
Out: 9.8/51

Connection at 4857.9'

Connection at 4900.4'
Pump Sweep

Connection at 4943.1'

In: 9.9/47
Out: 52

Connection at 4985.7'

Connection at 5028.4'

Connection at 5071'
Pump Sweep

In: 9.9/48
Out: 9.8/50

Connection at 5113.7'

In: 9.9/46
Out: 9.8/48

Connection at 5156.4'
Pump Sweep

Connection at 5198.9'

Connection at 5241.6'

In: 9.9/46
Out: 9.8/55
Connection at 5284.1'

In: 9.9/46
Out: 9.8/48
Connection at 5326.8'

Prog Cameo = 5356' MD

Connection at 5369.4'
In: 9.9/44
Out: 9.9/46

Connection at 5412'
Pump Sweep

Connection at 5454.6'
Transfer Mud
60 Barrels

In: 10.0/44
Out: 9.5/46

Connection at 5497.3'

Connection at 5539.9'

In: 10.1/44
Out: 9.6/50

Connection at 5582.6'
Pump Sweep

Connection at 5625.2'
In: 10.0/45
Out: 9.7/50

Connection at 5667.9'

Connection at 5710.3'
Pump Sweep

In: 10.0/45
Out: 9.8/48
Connection at 5753'

Connection at 5795.7'
Pump Sweep

Connection at 5838.4'

Pump Sweep

Prog Rollins = 5877' MD
Connection at 5881'
In: 10.0/43
Out: 9.8/49

Connection at 5923.6'

Pump Sweep

Connection at 5966.2'
In: 10.0/42
Out: 9.7/45

Connection at 6008.9'

Bit #2
FTG: 4223'
HRS: 42

BAT 33B-24-07-96 TD'd at 6050' on 01/06/14 at 09:09.