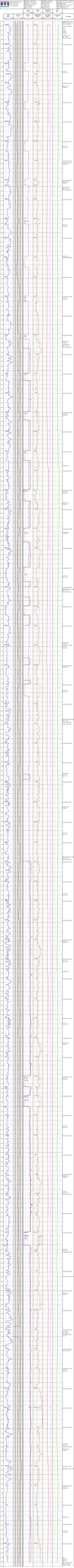

Boxberger Geological Services
0294 Cliff View Circle
Parachute, CO 81635
Phone: 970-285-2494
Fax: 970-285-2492

Operator: Ursa Resources
Well: BMC B 23D-18-07-95
Location: Sec. 18 T7S R95W
Field: Battlement Mesa
County: Garfield
State: Colorado

Drilling Rig: Capstar 321
Ground Elevation: 5100'
KB Elevation: 5117'
TVD vs. MD: 680'
Spud Date: 06/01/17
TD Date: 06/09/17

Surface Hole: 2261' FNL x 623' FWL
Bottom Hole: 1441' FSL x 1900' FWL
Drilling Fluid: LSND
Dates Logged: 06/07/17 - 06/09/17
Depth Logged: 3347' - 6691'
Logger: Tarin Boxberger

Torque (Ft Lbs) 0.0 20000.0
WOB (Klbs) 0.0 60.0
Stand Pipe Pressure (PSI) 0.0 2400.0
Flow (Percent) 0.0 80.0
ROP (Feet/Hour) 0.0 400.0
Total Gas (Units) 1.0 10000.0
Rotary (RPM) 0.0 60.0
Differential Pressure (PSI) 0.0 600.0
PVT Mud Gain/Loss (Barrels) -100.0 100.0
Total Mud (Barrels) 300.0 500.0

Comments

Logging depth = 3347'. BGS service begins on 06/07/17 at 14:28.

Connection at 3348.1'

Bit #2
7 7/8
Security
EM55K
In at 1980'

No Rotary Data
3347' - 4051'
Sensor malfunction

Connection at 3390.3'

Connection at 3432.3'

In: 9.3/41
Out: 9.3/43

Connection at 3474.5'

Pump Sweep
10 Barrels

Connection at 3516.7'

Connection at 3558.9'

Connection at 3601'

In: 9.3/39
Out: 9.2/40

Connection at 3643.1'

Prog Williams Fork = 3647' MD

Connection at 3685.3'
Pump Sweep
10 Barrels

No Rotary Data
3347' - 4051'
Sensor malfunction

Connection at 3727.4'

Connection at 3769.6'

In: 9.4/40
Out: 9.3/43

Connection at 3811.7'

Transfer Mud
Connection at 3853.8'

Connection at 3896'

Connection at 3938.1'
In: 9.4/40
Out: 9.3/42

Connection at 3980.1'

Connection at 4022.3'

Pump Sweep
10 Barrels

No Rotary Data
3347' - 4051'
Sensor malfunction

Connection at 4064.5'

Connection at 4106.6'

Connection at 4148.7'

Connection at 4190.8'
In: 9.4/40
Out: 9.3/42

Connection at 4232.9'

Connection at 4275.1'

Transfer Mud

Connection at 4317.2'

Connection at 4359.3'
In: 9.4/38
Out: 9.3/40

Pump Sweep
10 Barrels

Connection at 4401.4'

Connection at 4443.5'

Prog Top Gas = 4450' MD

Connection at 4485.8'

Connection at 4528'

In: 9.4/38
Out: 9.3/40

Connection at 4570.1'
Intermittent Rotary Data
4570' - 5166'
Sensor malfunction

Connection at 4612.2'

Connection at 4654.4'

Pump Sweep
10 Barrels
Connection at 4696.6'
In: 9.4/38
Out: 9.4/40

Connection at 4740.7'
Transfer Mud

Connection at 4782.8'

In: 9.4/38
Out: 9.4/40

Connection at 4824.9'

Intermittent Rotary Data
4570' - 5166'
Sensor malfunction

Connection at 4867.1'

Connection at 4909.3'

Connection at 4951.5'

Transfer Mud
In: 9.5/40
Out: 9.5/40

Connection at 4993.6'

Connection at 5037.7'

Pump Sweep
10 Barrels

Connection at 5081.8'

In: 9.5/38
Out: 9.5/41

Connection at 5125.8'

Intermittent Rotary Data
4570' - 5166'
Sensor malfunction

Connection at 5167.9'

Connection at 5210.1'

In: 9.6/38
Out: 9.6/40

Connection at 5252.2'

Connection at 5294.3'

Connection at 5336.5'
Pump Sweep
10 Barrels

Connection at 5378.6'
In: 9.7/38
Out: 9.7/40

Transfer Mud

Connection at 5421.3'

Connection at 5465.6'

Connection at 5507.9'

In: 9.7/36
Out: 9.7/38

Connection at 5550'

Pump Sweep
10 Barrels

Connection at 5592.2'

Connection at 5634.2'
In: 9.8/36
Out: 9.8/38

Connection at 5676.4'

Connection at 5718.5'

In: 9.8/37
Out: 9.8/38

Connection at 5762.6'

Connection at 5804.8'

Connection at 5846.9'
Pump Sweep
10 Barrels

In: 9.9/37
Out: 9.8/39
Connection at 5889'

Connection at 5931.2'

Connection at 5973.4'

In: 9.9/38
Out: 9.8/40
Connection at 6015.6'

Connection at 6057.7'

Prog Cameo = 6068' MD

Connection at 6099.9'

Pump Sweep
10 Barrels

Connection at 6142.1'

Connection at 6184.2'

No Gas Data
6178' - 6200'
Gas detector being serviced

Connection at 6226.3'
Popcorn Lag Test

Connection at 6268.5'
In: 9.9/38
Out: 9.8/40

Connection at 6312.3'

Connection at 6354.5'

Connection at 6396.7'

In: 10.0/38
Out: 9.9/39
Connection at 6438.9'

Pump Sweep
20 Barrels

Connection at 6481'

Prog Rollins = 6486' MD

Connection at 6523.1'
In: 10.0/38
Out: 9.0/40

Connection at 6565.3'

Transfer Mud

Connection at 6607.5'

In: 10.1/38
Out: 10.1/40

Connection at 6649.6'

Bit #2
FTG: 4711'
HRS: 43.5

BMC B 23D-18-07-95 TD'd at 6691' on 06/09/17 at 00:08.