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

Operator: Ursa Resources
Well: Tompkins 31A-08-07-95
Location: Sec. 11 T6S R92W
Field: Battlement Mesa
County: Garfield
State: Colorado

Drilling Rig: Capstar 321
Ground Elevation: 5532'
KB Elevation: 5549'
TVD vs. MD: 241'
Spud Date: 07/11/16
TD Date: 07/31/16

Surface Hole: 223' FSL x 646' FEL
Bottom Hole: 110' FNL x 1980' FEL
Drilling Fluid: LSND
Dates Logged: 07/29/16 - 07/31/16
Depth Logged: 3536' - 7085'
Logger: Tarin Boxberger

Torque (Ft Lbs) 0.0 16000.0
WOB (Klbs) 0.0 50.0
Stand Pipe Pressure (PSI) 0.0 2800.0
Flow (Percent) 0.0 100.0
ROP (Feet/Hour) 0.0 400.0
Total Gas (Units) 1.0 10000.0
Rotary (RPM) 0.0 80.0
Differential Pressure (PSI) 0.0 750.0
PVT Mud Gain/Loss (Barrels) -100.0 100.0
Total Mud (Barrels) 300.0 500.0
3530
3600
3700
3800
3900
4000
4100
4200
4300
4400
4500
4600
4700
4800
4900
5000
5100
5200
5300
5400
5500
5600
5700
5800
5900
6000
6100
6200
6300
6400
6500
6600
6700
6800
6900
7000

Comments

Logging depth = 3536'. BGS service begins on 07/29/16 at 22:23.

Bit #2
7 7/8
Security
MM55
In at 1778'

Connection at 3549.6'
Pump Sweep
10 Barrels

Connection at 3592.3'

Connection at 3634.9'

Connection at 3677.7'

Pump Sweep
10 Barrels

In: 9.4/43
Out: 9.3/47

Connection at 3720.4'

Connection at 3763.1'

Connection at 3805.9'
Pump Sweep
10 Barrels

Prog Williams Fork = 3836' MD

Connection at 3848.6'
In: 9.4/41
Out: 9.3/43

Connection at 3891.3'

Connection at 3934'

Connection at 3976.6'
In: 9.4/43
Out: 9.4/41

Pump Sweep
10 Barrels

Transfer Mud
Connection at 4019.4'

Connection at 4062.2'

Connection at 4104.9'
In: 9.4/40
Out: 9.4/41

Connection at 4147.6'
Pump Sweep
10 Barrels

Connection at 4190.4'

Connection at 4233.1'
Low Gas Data
4234' - 4844'
Gas trap clogged

In: 9.5/41
Out: 9.4/42

Connection at 4275.9'

Connection at 4318.6'
Pump Sweep
10 Barrels

Low Gas Data
4234' - 4844'
Gas trap clogged

Connection at 4361.2'

Connection at 4404.1'

In: 9.5/40
Out: 9.4/43
Low Gas Data
4234' - 4844'
Gas trap clogged
Connection at 4446.9'

Connection at 4489.5'

Connection at 4532.2'
Low Gas Data
4234' - 4844'
Gas trap clogged

Connection at 4574.8'

Connection at 4617.5'
In: 9.5/39
Out: 9.4/42
Low Gas Data
4234' - 4844'
Gas trap clogged
Pump Sweep
10 Barrels

Connection at 4660.2'

Connection at 4702.9'

Low Gas Data
4234' - 4844'
Gas trap clogged

Connection at 4745.6'

Connection at 4788.3'

In: 9.5/45
Out: 9.4/44

Connection at 4831'
Low Gas Data
4234' - 4844'
Gas trap clogged

Connection at 4873.7'

In: 9.5/39
Out: 9.3/43

Prog Top Gas
= 4914' MD
Connection at 4916.2'

Pump Sweep
10 Barrels

Connection at 4958.9'

Connection at 5001.6'

In: 9.5/40
Out: 9.2/40

Connection at 5044.3'

Connection at 5087'

Connection at 5129.5'
Pump Sweep
10 Barrels

Connection at 5172.2'

In: 9.5/44
Out: 9.4/46

Connection at 5214.8'

Connection at 5257.5'

Connection at 5300.2'

In: 9.5/43
Out: 9.4/47

Connection at 5342.9'

Connection at 5385.6'
Pump Sweep
10 Barrels

Connection at 5428.3'

Transfer Mud
Connection at 5471'

In: 9.5/42
Out: 9.5/45

Connection at 5513.7'

Connection at 5556.4'

Connection at 5599.1'

In: 9.4/40
Out: 9.3/44

Connection at 5641.8'
Pump Sweep
10 Barrels

Connection at 5684.5'

Connection at 5727.2'

In: 9.4/41
Out: 9.4/40

Connection at 5769.8'

Connection at 5812.5'

Connection at 5855.1'

In: 9.6/43
Out: 9.4/42
Connection at 5897.9'
Pump Sweep
10 Barrels

Connection at 5940.6'

Connection at 5983.3'

In: 9.7/40
Out: 9.7/42

Connection at 6026'

Connection at 6068.7'

Connection at 6111.5'

In: 9.9/41
Out: 9.9/42

Connection at 6154.2'

Connection at 6196.7'

Connection at 6239.3'

Connection at 6282'
Pump Sweep
10 Barrels

In: 9.9/42
Out: 9.9/44

Connection at 6324.7'

Connection at 6367.4'

Connection at 6410.2'

Prog Cameo = 6429' MD

Connection at 6452.8'
In: 10.0/42
Out: 9.9/45

Connection at 6495.5'

Connection at 6538.2'

Transfer Mud

Connection at 6580.9'
Pump Sweep
10 Barrels

Connection at 6623.6'
In: 10.0/42
Out: 9.9/45

Connection at 6666.3'

Connection at 6709'

Connection at 6751.7'
Pump Sweep
10 Barrels

Connection at 6794.2'
In: 10.1/42
Out: 9.8/44

Connection at 6837'

Connection at 6879.7'

Connection at 6922.5'

Prog Rollins = 6929' MD
In: 10.2/44
Out: 9.9/49

Connection at 6965.2'

Connection at 7007.9'
In: 10.2/45
Out: 9.8/50

In: 10.2/42
Out: 10.0/49

Connection at 7050.5'
In: 10.2/42
Out: 10.1/48

Bit #2
FTG: 5307'
HRS: 43.5

Tompkins 31A-08-07-95
TD'd at 7085' on
07/31/16 at 08:27.