Boxberger Geological Services
0294 Cliff View Circle
Parachute, CO 81635
Phone: 970-285-2494
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Operator: Ursa Resources
Well: Tompkins 31C-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: 372'
Spud Date: 06/07/16
TD Date: 07/08/16

Surface Hole: 223' FSL x 621' FEL
Bottom Hole: 770' FNL x 1980' FEL
Drilling Fluid: LSND
Dates Logged: 07/07/16 - 07/08/16
Depth Logged: 3627' - 7215'
Logger: Tarin Boxberger

ROP (Feet/Hour) 0.0–400.0	Total Gas (Units) 1.0–10000.0	Torque (Ft Lbs) 0.0–16000.0 Rotary (RPM) 0.0–80.0	WOB (Klbs) 0.0–60.0 Differential Pressure (PSI) 0.0–800.0	Stand Pipe Pressure (PSI) 0.0–2800.0 PVT Mud Gain/Loss (Barrels) -100.0–100.0	Flow (Percent) 0.0–100.0 Total Mud (Barrels) 300.0–500.0	Comments

Comments

Logging depth = 3627'. BGS service begins on 07/07/16 at 03:09.

Connection at 3634.2'

Bit #3
7 7/8
Varel
R516DU
In at 1815'

In: 9.3/39
Out: 9.3/41

Connection at 3676.9'

Connection at 3719.6'
Pump Sweep
10 Barrels

Connection at 3762.3'

In: 9.3/39
Out: 9.4/41
Connection at 3805'

Connection at 3847.9'

Connection at 3890.6'

Prog Williams Fork = 3927' MD
Connection at 3933.3'
In: 9.2/40
Out: 9.3/41

Connection at 3976'

In: 9.2/39
Out: 9.4/41
Connection at 4018.8'
Zero Mud Gain/Loss
Pump Sweep
10 Barrels

Connection at 4061.5'

Connection at 4104.3'

Connection at 4147'

Zero Mud Gain/Loss

Connection at 4189.7'
In: 9.3/43
Out: 9.4/43

Connection at 4232.3'

Connection at 4275'

Zero Mud Gain/Loss

Connection at 4317.6'

Connection at 4360.2'
Pump Sweep
10 Barrels

In: 9.4/46
Out: 9.3/44

Connection at 4403'

Connection at 4445.6'

Connection at 4488.3'

In: 9.4/41
Out: 9.4/43
Connection at 4531'

Connection at 4573.8'

Connection at 4616.4'

Connection at 4659.1'

Connection at 4701.7'
In: 9.4/43
Out: 9.5/42

Connection at 4744.4'
Pump Sweep
10 Barrels

Connection at 4787.1'

Connection at 4829.8'

In: 9.4/46
Out: 9.5/46

Connection at 4872.4'

Connection at 4915.1'

Connection at 4957.8'

In: 9.4/42
Out: 9.5/44

Connection at 5000.5'

Pump Sweep
10 Barrels
Prog Top Gas = 5018' MD

Connection at 5043.2'

Connection at 5085.9'

Connection at 5128.7'

In: 9.5/37
Out: 9.5/38
Connection at 5171.4'

Connection at 5214'
Pump Sweep
10 Barrels

Connection at 5256.6'

Connection at 5299.3'

Connection at 5342.1'

In: 9.5/41
Out: 9.4/41

Connection at 5384.8'

Connection at 5427.5'

Connection at 5470.4'

Connection at 5513'
In: 9.5/39
Out: 9.5/35

Connection at 5555.7'

In: 9.3/37
Out: 9.4/41

Connection at 5598.4'

Connection at 5641.1'

Connection at 5683.8'

In: 9.3/38
Out: 9.2/40

Connection at 5726.6'
Pump Sweep
10 Barrels

Connection at 5769.3'

Transfer Mud

Connection at 5811.9'

Connection at 5854.6'

In: 9.4/39
Out: 9.4/40

Connection at 5897.4'

Connection at 5940.1'

In: 9.4/42
Out: 9.5/39

Connection at 5982.8'

Connection at 6025.5'

Connection at 6068.3'

In: 9.5/42
Out: 9.4/39

Connection at 6110.9'

Connection at 6153.7'
Pump Sweep
10 Barrels

Connection at 6196.4'

In: 9.5/40
Out: 9.3/43

Connection at 6239.1'

Connection at 6281.7'

Connection at 6324.4'

In: 9.6/38
Out: 9.5/40

Connection at 6367'

Connection at 6409.7'

In: 9.7/38
Out: 9.5/40

Transfer Mud
Connection at 6452.4'

Connection at 6495.1'

In: 9.7/39
Out: 9.4/43
Connection at 6537.8'
Prog Cameo = 6539' MD
Pump Sweep
10 Barrels

Connection at 6580.5'

In: 9.8/39
Out: 9.6/40
Transfer Mud
Connection at 6623.2'

Connection at 6665.8'

In: 9.9/40
Out: 9.6/43
Connection at 6708.6'

Connection at 6751.3'

Transfer Mud

Connection at 6794.2'

Zero Mud Gain/Loss
Connection at 6836.9'
In: 10.0/38
Out: 9.8/43

Zero Mud Gain/Loss
Connection at 6879.6'

Connection at 6922.3'

Connection at 6965'
Pump Sweep
10 Barrels

In: 10.1/40
Out: 9.8/43
Transfer Mud
Zero Mud Gain/Loss
Connection at 7007.6'

Prog Rollins = 7037' MD

Connection at 7050.4'

Connection at 7093.1'
In: 10.2/37
Out: 10.0/40

Connection at 7135.9'

Connection at 7178.6'
In: 10.2/38
Out: 10.0/41

Bit #3
FTG: 5400'
HRS: 41.5

Tompkins 31C-08-07-95
TD'd at 7215' on
07/08/16 at 10:01.