DRILL STEM TEST REPORT

Grand Mesa Operating Company

1700 N. Waterfront Pkwy Bldg 600
Wichita, Ks 67206

ATTN: Bob Peterson

G Anderson 3-26

26-12-32 Logan, Ks

Job Ticket: 040271 **DST#: 5**

Test Start: 2010.11.07 @ 01:50:21

GENERAL INFORMATION:

Formation: **Johnson**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 04:06:16
Time Test Ended: 09:15:45

Test Type: Conventional Bottom Hole
Tester: Brandon Turley
Unit No: 35

Interval: 4536.00 ft (KB) To 4590.00 ft (KB) (TVD)
Total Depth: 4590.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

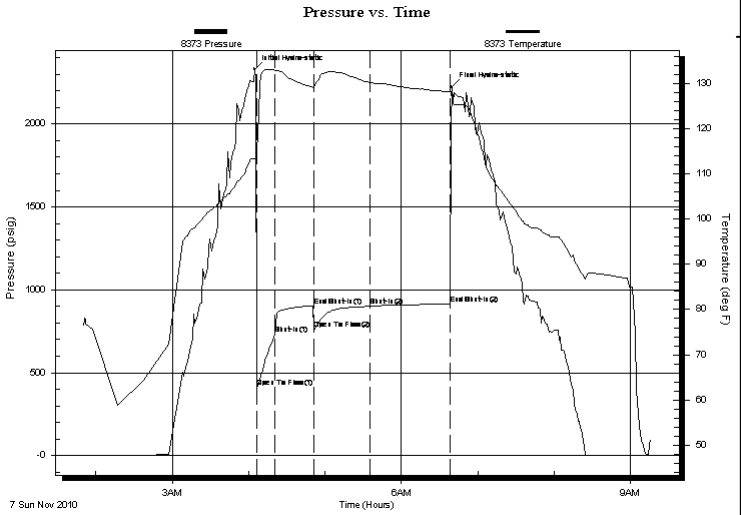
Reference Elevations: 2997.00 ft (KB)
2992.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8373 **Inside**

Press@RunDepth: 900.79 psig @ 4537.00 ft (KB)
Start Date: 2010.11.07 End Date: 2010.11.07
Start Time: 01:50:21 End Time: 09:15:45

Capacity: 8000.00 psig
Last Calib.: 2010.11.07
Time On Btm: 2010.11.07 @ 04:04:46
Time Off Btm: 2010.11.07 @ 06:39:45

TEST COMMENT: IF: BOB in 30 sec.
IS: Surface blow built to 3 in 30 min.
FF: BOB in 1 1/2 min.
FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2330.28	113.36	Initial Hydro-static
2	411.06	113.39	Open To Flow (1)
16	733.03	132.89	Shut-In(1)
47	904.64	129.06	End Shut-In(1)
47	761.60	129.29	Open To Flow (2)
91	900.79	130.24	Shut-In(2)
154	913.60	128.08	End Shut-In(2)
155	2224.49	126.22	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1674.00	mcw 90%w 10%m	22.39
248.00	wcm 30%w 70%m	3.48

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

DRILL STEM TEST REPORT

FLUID SUMMARY

Grand Mesa Operating Company

1700 N. Waterfront Pkwy Bldg 600
Wichita, Ks 67206

ATTN: Bob Peterson

G Anderson 3-26

26-12-32 Logan, Ks

Job Ticket: 040271 **DST#: 5**

Test Start: 2010.11.07 @ 01:50:21

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	0 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	42000 ppm
Viscosity:	55.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.97 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	2300.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

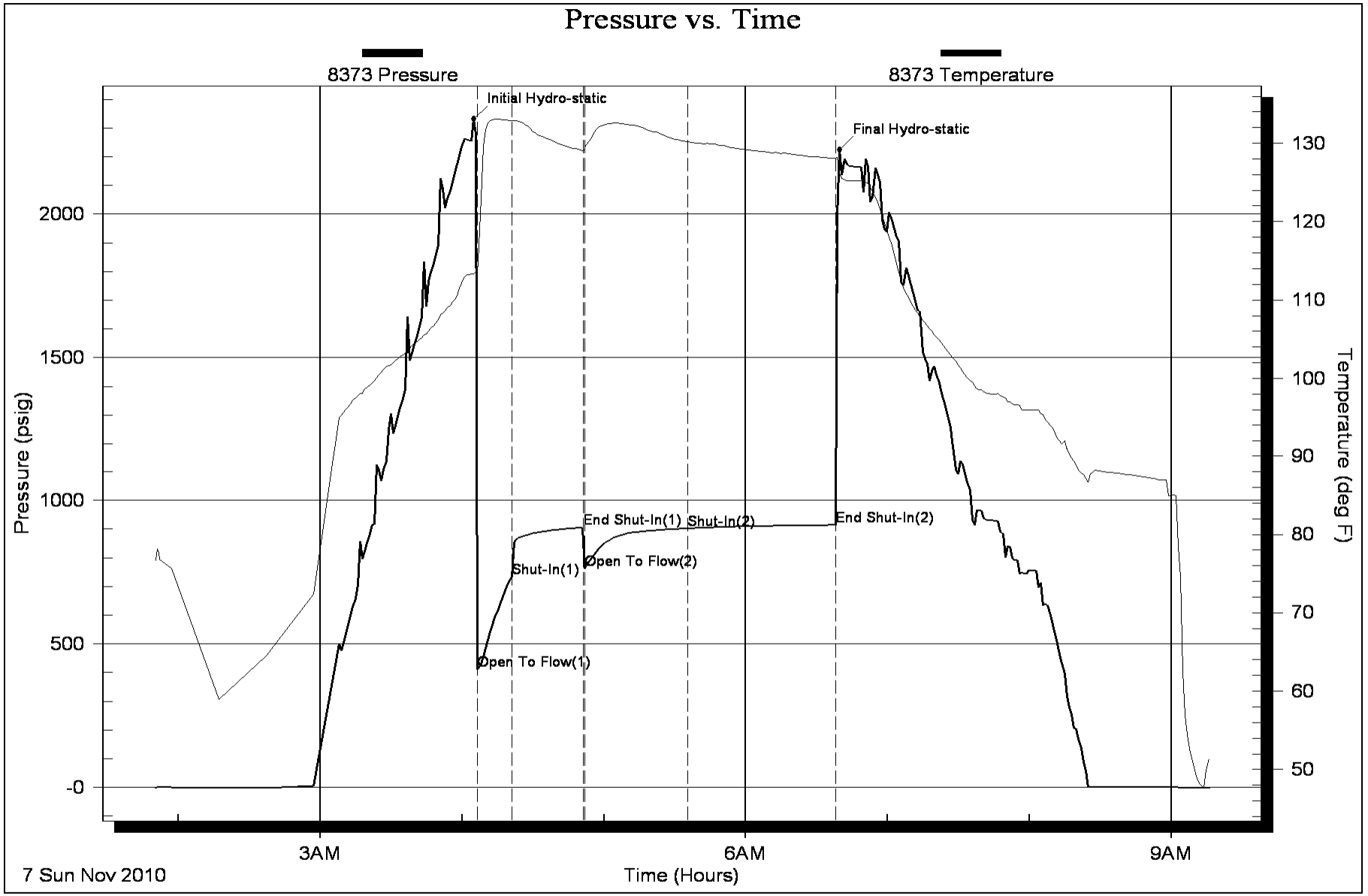
Length ft	Description	Volume bbl
1674.00	mcw 90%w 10%m	22.389
248.00	w cm 30%w 70%m	3.479

Total Length: 1922.00 ft Total Volume: 25.868 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: .29@43=42000


Pressure vs. Time
8373 Pressure
8373 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
Shut-In(2)
End Shut-In(2)
Shut-In(1)
Open To Flow(2)
Open To Flow(1)
Pressure (psig)
Temperature (deg F)
2000
1500
1000
500
-0
130
120
110
100
90
80
70
60
50
3AM
6AM
9AM
7 Sun Nov 2010
Time (Hours)