



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Grand Mesa Operating
1700 N. Waterfront Pkw y.
Building 600
Wichita, KS 67206
ATTN: Bob Petersen

Sponey #1-33
S33-13s-31w Gove, KS
Job Ticket: 43398 **DST#: 4**
Test Start: 2011.07.27 @ 00:01:00

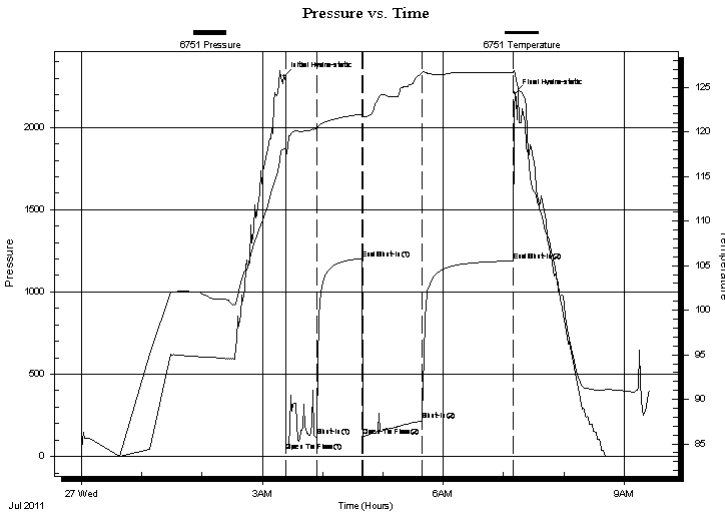
GENERAL INFORMATION:

Formation: **Johnson**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 03:23:40
Time Test Ended: 09:25:30
Interval: **4515.00 ft (KB) To 4580.00 ft (KB) (TVD)**
Total Depth: 4580.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole
Tester: Chuck Smith
Unit No: 37
Reference Elevations: 2934.00 ft (KB)
2929.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6751 Outside
Press @ Run Depth: 217.28 psig @ 4517.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.07.27 End Date: 2011.07.27 Last Calib.: 2011.07.27
Start Time: 00:01:02 End Time: 09:25:30 Time On Btm: 2011.07.27 @ 03:21:30
Time Off Btm: 2011.07.27 @ 07:11:20

TEST COMMENT: IF: B.O.B. @ 17 min.
IS: 1 1/2" Return.
FF: B.O.B. @ 16 min.
FS: B.O.B. @ 27 min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2310.16	118.09	Initial Hydro-static
3	31.75	117.22	Open To Flow (1)
33	120.21	120.39	Shut-In(1)
78	1203.35	122.01	End Shut-In(1)
79	120.72	121.69	Open To Flow (2)
138	217.28	126.63	Shut-In(2)
229	1188.65	126.64	End Shut-In(2)
230	2208.49	126.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	GOCM 10g 10o 80m	0.59
122.00	GMCO 15g 30m 55o	1.16
124.00	GMCO 10g 40m 50o	1.74
124.00	GO 20g 80o	1.74
0.00	124 Feet GIP	0.00

Gas Rates

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



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FLUID SUMMARY

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Job Ticket: 43398 **DST#: 4**

Test Start: 2011.07.27 @ 00:01:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 67.00 sec/qt
Water Loss: 7.19 in³
Resistivity: ohm.m
Salinity: 3800.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 25 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	GOCM 10g 10o 80m	0.590
122.00	GMCO 15g 30m 55o	1.165
124.00	GMCO 10g 40m 50o	1.739
124.00	GO 20g 80o	1.739
0.00	124 Feet GIP	0.000

Total Length: 490.00 ft Total Volume: 5.233 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: API: 27 @ 80 Degrees F = 25.

