



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Grand Mesa
1700 N Waterfront PKWY
BLDG 600 Wichita KS
67202-5514
ATTN: John Goldsmith

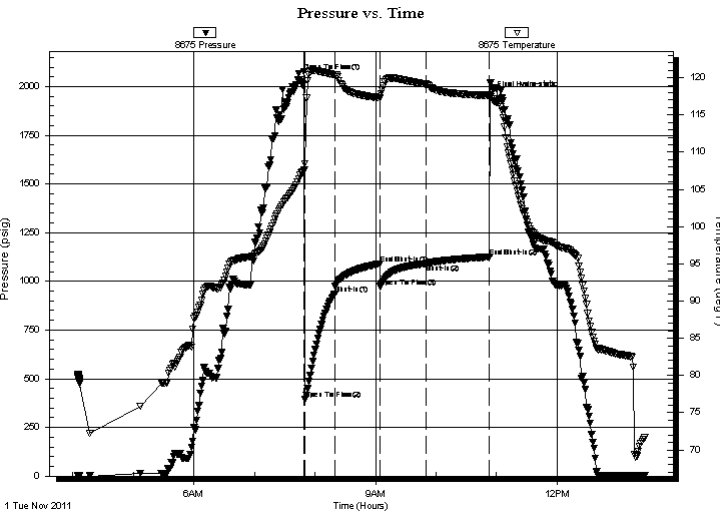
16-16s-33w
DBY 3-16
Job Ticket: 44340 **DST#: 1**
Test Start: 2011.11.01 @ 04:05:00

GENERAL INFORMATION:

Formation: **Kansas City "H"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:49:30
Time Test Ended: 13:27:15
Interval: **4148.00 ft (KB) To 4195.00 ft (KB) (TVD)**
Total Depth: 4195.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Jace McKinney
Unit No: 46
Reference Elevations: 3046.00 ft (KB)
3041.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8675 Inside
Press @ Run Depth: 935.14 psig @ 4149.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.11.01 End Date: 2011.11.01 Last Calib.: 2011.11.01
Start Time: 04:05:01 End Time: 13:27:15 Time On Btm:
Time Off Btm: 2011.11.01 @ 10:53:15

TEST COMMENT: B.O.B. in 1 min.
Bled off for 5 min. No return blow
B.O.B. in 1 1/2 min.
Bled off for 5 min. No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2078.13	107.58	Open To Flow (1)
1	393.07	108.50	Open To Flow (2)
30	935.14	120.37	Shut-In(1)
75	1090.83	117.31	End Shut-In(1)
75	972.74	117.26	Open To Flow (3)
121	1091.75	119.13	Shut-In(2)
184	1125.09	117.61	End Shut-In(2)
184	1953.89	117.69	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
117.00	100% Water	0.58
1985.00	w cm 40%W 60%M Drop the bar	27.84
263.00	w cm 20%W 60%M	3.69

Gas Rates

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



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FLUID SUMMARY

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DBY 3-16

Job Ticket: 44340

DST#: 1

Test Start: 2011.11.01 @ 04:05:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
117.00	100% Water	0.575
1985.00	w cm 40%W 60%M Drop the bar	27.838
263.00	w cm 20%W 60%M	3.689

Total Length: 2365.00 ft Total Volume: 32.102 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .28 @ 60 F = 30,000

Pressure vs. Time

