



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

Sponey #1-33
S33-13s-31w Gove, KS
Job Ticket: 43396 **DST#: 2**
Test Start: 2011.07.24 @ 19:11:00

GENERAL INFORMATION:

Formation: **LKC 'K'**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 21:03:20
Time Test Ended: 00:46:30
Interval: **4230.00 ft (KB) To 4260.00 ft (KB) (TVD)**
Total Depth: 4260.00 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

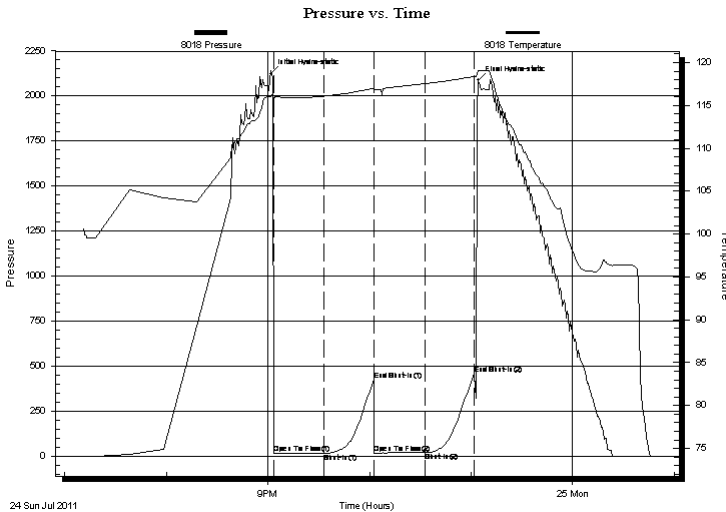
Serial #: 8018

Inside

Press @ Run Depth: 21.04 psig @ 4232.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.07.24 End Date: 2011.07.25 Last Calib.: 2011.07.25
Start Time: 19:11:02 End Time: 00:46:30 Time On Btm: 2011.07.24 @ 21:01:50
Time Off Btm: 2011.07.24 @ 23:04:20

TEST COMMENT: IF: Surface blow died @ 5 min.
IS: No return.
FF: No blow, flushed tool, no blow.
FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2123.49	116.19	Initial Hydro-static
2	16.32	115.69	Open To Flow (1)
31	17.93	116.08	Shut-In(1)
61	426.13	117.00	End Shut-In(1)
61	17.23	116.70	Open To Flow (2)
92	21.04	117.55	Shut-In(2)
121	457.66	118.39	End Shut-In(2)
123	2086.78	119.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	M100m	0.02

Gas Rates

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



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FLUID SUMMARY

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DST#: 2

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Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 50.00 sec/qt

Water Loss: 9.58 in³

Resistivity: 0.00 ohm.m

Salinity: 2700.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	M 100m	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

