



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GRAND MESA OPERATING
1700 N WATERFRONT PKWY BLDG 600
WICHITA KS 67206
ATTN: KENT MATSON

DBY # 2-16
16-16S-33W SCOTT
Job Ticket: 43697 **DST#: 3**
Test Start: 2011.09.14 @ 11:12:08

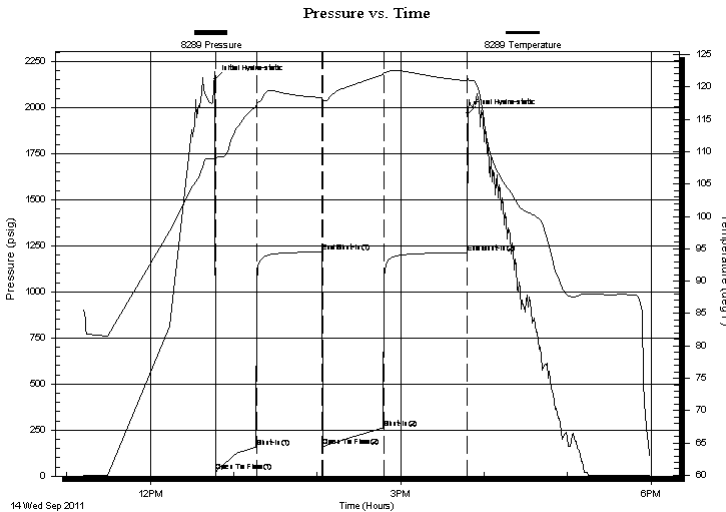
GENERAL INFORMATION:

Formation: **KC "K"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:46:53
Time Test Ended: 17:59:53
Interval: **4245.00 ft (KB) To 4272.00 ft (KB) (TVD)**
Total Depth: 4272.00 ft (KB) (TVD)
Hole Diameter: 6.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole
Tester: RANDY WILLIAMS
Unit No: 35
Reference Elevations: 3048.00 ft (KB)
3037.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8289 Outside
Press @ Run Depth: 262.64 psig @ 4246.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.09.14 End Date: 2011.09.14 Last Calib.: 2011.09.14
Start Time: 11:12:13 End Time: 17:59:52 Time On Btm: 2011.09.14 @ 12:46:38
Time Off Btm: 2011.09.14 @ 15:48:23

TEST COMMENT: IF- FBB, BUILT TO BOTTOM BUCKET IN 24 MINS
IS- NBB
FF- FBB, BUILT TO BOTTOM BUCKET IN 28 MINS
FS- NBB

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2151.49	109.33	Initial Hydro-static
1	24.30	108.74	Open To Flow (1)
30	158.47	117.01	Shut-In(1)
77	1216.18	118.33	End Shut-In(1)
78	161.65	117.90	Open To Flow (2)
122	262.64	121.88	Shut-In(2)
182	1212.63	120.94	End Shut-In(2)
182	1967.29	121.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
540.00	MCW- 80% WATER, 20% MUD	5.43

Gas Rates

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



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FLUID SUMMARY

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Job Ticket: 43697

DST#: 3

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Test Start: 2011.09.14 @ 11:12:08

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:

21000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8600.00 ppm

Filter Cake: 4.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
540.00	MCW- 80% WATER, 20% MUD	5.434

Total Length: 540.00 ft Total Volume: 5.434 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: CHLORIDES =21,000

Pressure vs. Time

