



**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: 43696 **DST#: 2**
Test Start: 2011.09.13 @ 15:56:37

GENERAL INFORMATION:

Formation: **KC "H&I"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 17:49:22
Time Test Ended: 23:54:22
Interval: **4142.00 ft (KB) To 4227.00 ft (KB) (TVD)**
Total Depth: 4227.00 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

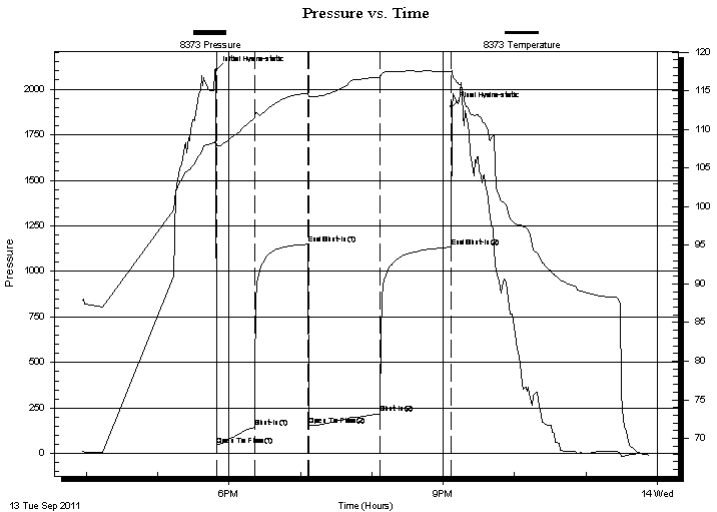
Serial #: 8373

Inside

Press @ Run Depth: 219.20 psig @ 4143.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.09.13 End Date: 2011.09.13 Last Calib.: 2011.09.14
Start Time: 15:56:42 End Time: 23:54:21 Time On Btm: 2011.09.13 @ 17:48:52
Time Off Btm: 2011.09.13 @ 21:07:22

TEST COMMENT: IF- SBB, BUILT TO 10 INCHS IN 30 MIN'S
IS- NBB
FF- SBB, BUILT TO BOTTOM BUCKET IN 43 MIN'S
FS- NBB

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2102.03	108.54	Initial Hydro-static
1	46.34	107.91	Open To Flow (1)
33	143.92	111.55	Shut-In(1)
78	1149.22	114.69	End Shut-In(1)
78	155.05	114.30	Open To Flow (2)
138	219.20	116.74	Shut-In(2)
198	1133.02	117.49	End Shut-In(2)
199	1903.99	117.63	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
240.00	MCW-30% MUD, 70% WATER	1.23
180.00	SOWCM- 5% OIL, 25% WATER, 70% MUD	2.52
60.00	CLEAN OIL	0.84

Gas Rates

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



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FLUID SUMMARY

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Job Ticket: 43696

DST#: 2

ATTN: KENT MATSON

Test Start: 2011.09.13 @ 15:56:37

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:

19000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.37 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: 3.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
240.00	MCW-30% MUD, 70% WATER	1.226
180.00	SOWCM- 5% OIL, 25% WATER, 70% MUD	2.525
60.00	CLEAN OIL	0.842

Total Length: 480.00 ft Total Volume: 4.593 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API- 28 @ 60 F

CHLORIDES- 19,000

