



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Grand Mesa Operating Company

Hess 1-4

1700 N Waterfront Pkwy BLDG 600 Wichita, KS
67206

4/14/31

ATTN: Mac Armstrong

Job Ticket: 38352

DST#: 4

Test Start: 2010.09.17 @ 21:05:05

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:39:58

Time Test Ended: 02:25:28

Test Type: Conventional Bottom Hole

Tester: Mike Roberts

Unit No: 35

Interval: 4491.00 ft (KB) To 4551.00 ft (KB) (TVD)

Reference Elevations: 2917.00 ft (KB)

Total Depth: 4551.00 ft (KB) (TVD)

2912.00 ft (CF)

Hole Diameter: 7.78 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8373 Inside

Press @ Run Depth: 39.98 psig @ 4530.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.09.17

End Date: 2010.09.18

Last Calib.: 2010.09.18

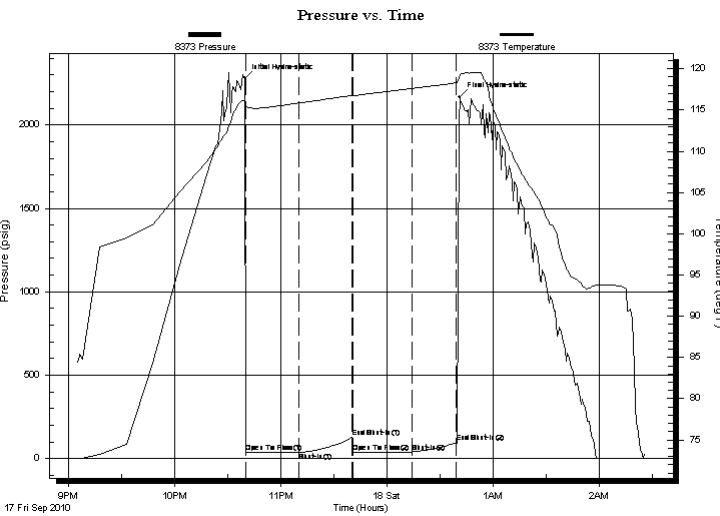
Start Time: 21:05:05

End Time: 02:25:28

Time On Btm: 2010.09.17 @ 22:39:43

Time Off Btm: 2010.09.18 @ 00:40:58

TEST COMMENT: IF:Weak surface blow
IS:No return blow
FF:No blow
FS:No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2278.77	116.18	Initial Hydro-static
1	37.86	115.28	Open To Flow (1)
31	39.14	115.85	Shut-In(1)
61	128.49	116.78	End Shut-In(1)
61	39.20	116.72	Open To Flow (2)
95	39.98	117.63	Shut-In(2)
120	97.26	118.28	End Shut-In(2)
122	2167.21	119.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	mud w ith oil specs	0.01

Gas Rates

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



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Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3700.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	mud w ith oil specs	0.010

Total Length: 2.00 ft Total Volume: 0.010 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

