



**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: 40242

DST#: 2

Test Start: 2010.09.15 @ 13:13:09

GENERAL INFORMATION:

Formation: **Lans. J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:46:49

Time Test Ended: 21:15:03

Test Type: Conventional Bottom Hole

Tester: Chris Hagman

Unit No: 35

Interval: 4174.00 ft (KB) To 4200.00 ft (KB) (TVD)

Reference Elevations: 2917.00 ft (KB)

Total Depth: 4200.00 ft (KB) (TVD)

2912.00 ft (CF)

Hole Diameter: 7.78 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8289 Outside

Press @ Run Depth: 265.15 psig @ 4175.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.09.15

End Date:

2010.09.15

Last Calib.:

2010.09.15

Start Time:

13:13:09

End Time:

21:15:03

Time On Btm:

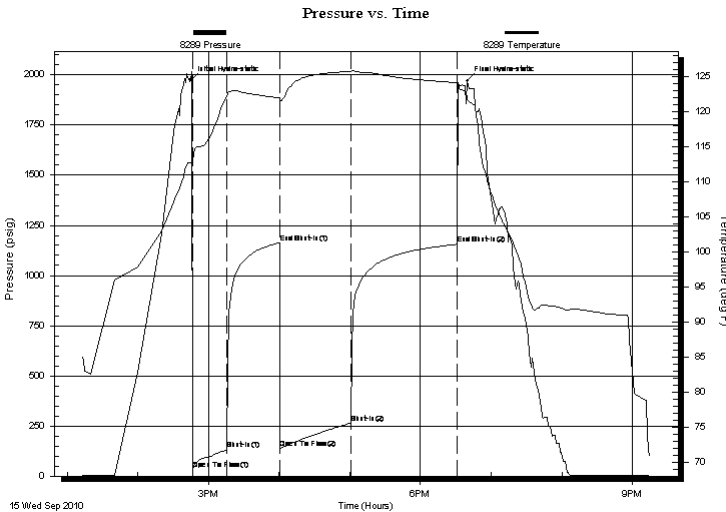
2010.09.15 @ 14:44:49

Time Off Btm:

2010.09.15 @ 18:39:49

TEST COMMENT: IF: BOB 10 min., strong building blow
IS: No blow back
FF: BOB 12 min., strong steady blow
FS: Blow back 2 min., 3.5 inches in 90 min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1972.07	112.71	Initial Hydro-static
2	35.64	112.87	Open To Flow (1)
31	133.62	122.26	Shut-In(1)
76	1162.75	122.02	End Shut-In(1)
76	140.57	121.44	Open To Flow (2)
136	265.15	125.80	Shut-In(2)
227	1155.56	124.21	End Shut-In(2)
235	1971.04	121.90	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
434.00	oily gassy water 5%G,5%O,90%W	5.00
124.00	gassy oil 5%G,95%O	1.74

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Grand Mesa Operating Company

Hess 1-4

1700 N Waterfront Pkwy BLDG 600 Wichita, KS
67206

4/14/31

Job Ticket: 40242

DST#: 2

ATTN: Mac Armstrong

Test Start: 2010.09.15 @ 13:13:09

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

63000 ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
434.00	oily gassy water 5%G,5%O,90%W	5.004
124.00	gassy oil 5%G,95%O	1.739

Total Length: 558.00 ft Total Volume: 6.743 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler=1700ml oil, 1.6CF Gas @ 550psi
API=37 @ 80F=35

Pressure vs. Time

