



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Grand Mesa Operating Inc.

Phelps 8-31

1700 N Waterfront Pkw y
Bldg 600
Wichita Ks 67206
ATTN: Bob Peterson

31-13s-31w Gove KS

Job Ticket: 040182 **DST#: 2**

Test Start: 2010.10.29 @ 03:19:15

GENERAL INFORMATION:

Formation: **Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:55:45

Time Test Ended: 11:47:45

Test Type: Conventional Bottom Hole

Tester: Mike Roberts

Unit No: 48

Interval: 4685.00 ft (KB) To 4720.00 ft (KB) (TVD)

Reference Elevations: 2922.00 ft (KB)

Total Depth: 4685.00 ft (KB) (TVD)

2917.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8358 Inside

Press @ Run Depth: 715.17 psig @ 4766.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.10.29 End Date: 2010.10.29

Last Calib.: 2010.10.29

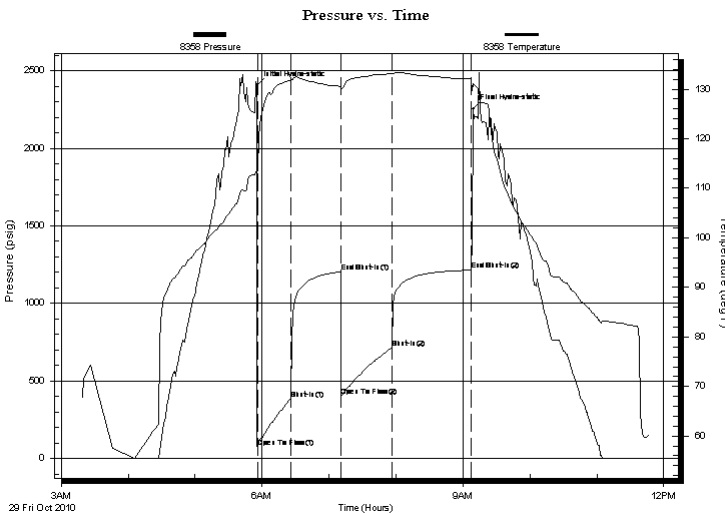
Start Time: 03:19:15 End Time: 11:47:45

Time On Btm: 2010.10.29 @ 05:55:30

Time Off Btm: 2010.10.29 @ 09:09:15

TEST COMMENT: IF:BOB in 4 min.
IS:No return blow
FF:BOB in 4 min.
FS:No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2406.59	113.59	Initial Hydro-static
1	74.64	112.68	Open To Flow (1)
31	384.07	131.85	Shut-In(1)
75	1204.02	130.60	End Shut-In(1)
76	402.82	130.22	Open To Flow (2)
121	715.17	133.05	Shut-In(2)
192	1214.97	132.04	End Shut-In(2)
194	2254.87	131.13	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
248.00	mw with trace of oil	2.39
310.00	mw 10% m 90%w	4.35
930.00	sw 100% w	13.05

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: 54.00 sec/qt

Water Loss: 9.17 in³

Resistivity: 0.00 ohm.m

Salinity: 3000.00 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: 20000 ppm

deg API

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
248.00	mw with trace of oil	2.395
310.00	mw 10% m 90%w	4.348
930.00	sw 100% w	13.045

Total Length: 1488.00 ft Total Volume: 19.788 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW=.496@44.9 degrees=20,000 ppm

Pressure vs. Time

