



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GRAND MESA OPERATING

DBY # 2-16

1700 N WATERFRONT PKWY BLDG 600
WICHITA KS 67206

16-16S-33W SCOTT

ATTN: John Goldsmith

Job Ticket: 43890

DST#: 9

Test Start: 2011.09.18 @ 18:56:00

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:51:10

Time Test Ended: 03:21:09

Test Type: Conventional Bottom Hole

Tester: Will MacLean

Unit No: 35

Interval: 4566.00 ft (KB) To 4615.00 ft (KB) (TVD)

Reference Elevations: 3048.00 ft (KB)

Total Depth: 4615.00 ft (KB) (TVD)

3037.00 ft (CF)

Hole Diameter: 6.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8373

Inside

Press @ Run Depth: 193.87 psig @ 4567.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.09.18

End Date:

2011.09.19

Last Calib.:

2011.09.19

Start Time: 18:56:00

End Time:

03:21:09

Time On Btm:

2011.09.18 @ 20:50:55

Time Off Btm:

2011.09.19 @ 00:37:24

TEST COMMENT:

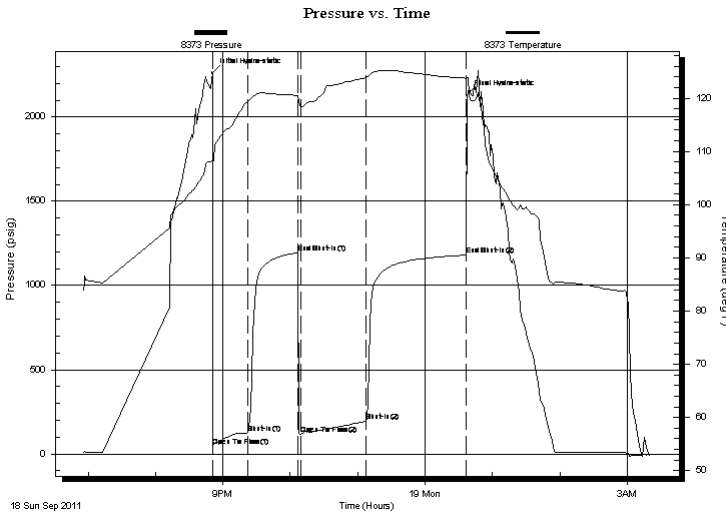
IF- BOB in 6min

IS- Surface Blow Built to 4"

FF- BOB in 4 1/2min

FS- BOB in 12 1/2min @ 18min Died Back to 7" then Built Back to BOB

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2261.62	108.34	Initial Hydro-static
1	46.13	107.57	Open To Flow (1)
31	124.05	119.26	Shut-In(1)
76	1195.41	120.53	End Shut-In(1)
79	115.17	118.37	Open To Flow (2)
137	193.87	123.84	Shut-In(2)
226	1180.41	123.77	End Shut-In(2)
227	2130.60	123.93	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GOCM 20%oil 40%g 40%m	0.30
114.00	GO 20%g 80%oil	0.56
124.00	MCGO 20%m 30%oil 50%g	1.18
180.00	GOCM 15%g 20%oil 65%m	2.52
0.00	1178' of GIP	0.00

Gas Rates

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



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FLUID SUMMARY

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16-16S-33W SCOTT

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DST#: 9

ATTN: John Goldsmith

Test Start: 2011.09.18 @ 18:56:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

32 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbf

Water Loss: 9.55 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 9200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
60.00	GOCM 20%oil 40%g 40%m	0.295
114.00	GO 20%g 80%oil	0.561
124.00	MCGO 20%m 30%oil 50%g	1.184
180.00	GOCM 15%g 20%oil 65%m	2.525
0.00	1178' of GIP	0.000

Total Length: 478.00 ft Total Volume: 4.565 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API is 32 @60f = 32

