



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Strata Exploration

1-27S-20W Kiowa

PO Box 401
Fairfield, Il 62837

Miller B 1-1

Job Ticket: 51910

DST#: 2

ATTN: Jon Christensen

Test Start: 2013.12.15 @ 21:37:05

GENERAL INFORMATION:

Formation: **Lansing "B"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:24:50

Time Test Ended: 05:53:35

Test Type: Conventional Bottom Hole (Reset)

Tester: Leal Cason

Unit No: 74

Interval: 4250.00 ft (KB) To 4270.00 ft (KB) (TVD)

Reference Elevations: 2291.00 ft (KB)

Total Depth: 4270.00 ft (KB) (TVD)

2278.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 13.00 ft

Serial #: 6798

Inside

Press @ Run Depth: 171.01 psig @ 4251.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.12.15

End Date:

2013.12.16

Last Calib.:

2013.12.16

Start Time:

21:37:06

End Time:

05:53:35

Time On Btm:

2013.12.16 @ 00:12:50

Time Off Btm:

2013.12.16 @ 03:47:35

TEST COMMENT:

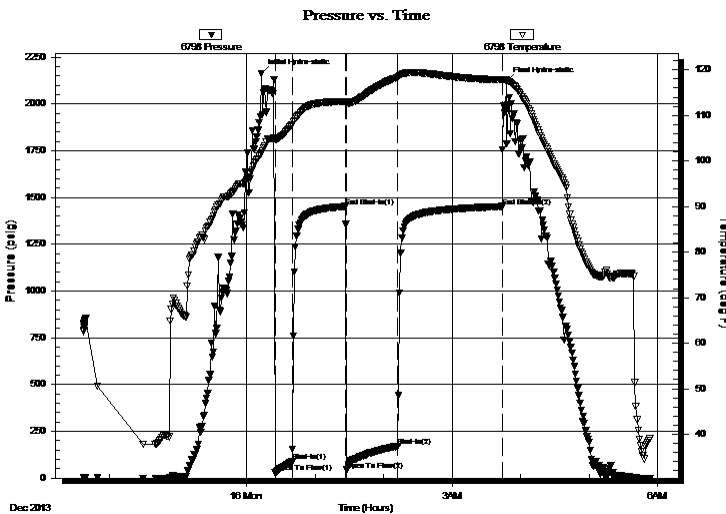
IF: Strong Blow , BOB in 1 minute

IS: Weak Surface Blow Back

FF: Strong Blow , BOB in 30 seconds, GTS in 20 minutes, Gauged & Caught Sample

FSI: No Blow Back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2164.32	101.66	Initial Hydro-static
12	28.68	104.76	Open To Flow (1)
27	87.94	107.91	Shut-In(1)
74	1453.13	113.09	End Shut-In(1)
75	44.25	112.69	Open To Flow (2)
120	171.01	118.39	Shut-In(2)
211	1452.55	117.81	End Shut-In(2)
215	2120.24	117.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	3878 GIP	0.00
300.00	Water	1.48
70.00	GWCM 5%G 30%W 65%M	0.98

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	18.00	51.40
Last Gas Rate	0.25	24.00	60.92
Max. Gas Rate	0.25	24.00	60.92



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FLUID SUMMARY

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Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

90000 ppm

Viscosity: 69.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
0.00	3878 GIP	0.000
300.00	Water	1.484
70.00	GWCM 5%G 30%W 65%M	0.982

Total Length: 370.00 ft Total Volume: 2.466 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW w as .15 @ 41 degrees



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GAS RATES

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Miller B 1-1

Job Ticket: 51910

DST#: 2

ATTN: Jon Christensen

Test Start: 2013.12.15 @ 21:37:05

Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
2	30	0.25	18.00	51.40
2	40	0.25	22.00	57.74
2	45	0.25	24.00	60.92

