



**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: 51909

DST#: 1

ATTN: Jon Christensen

Test Start: 2013.12.15 @ 01:24:10

GENERAL INFORMATION:

Formation: **Lansing "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:28:55

Time Test Ended: 10:09:10

Test Type: Conventional Bottom Hole (Initial)

Tester: Leal Cason

Unit No: 74

Interval: 4222.00 ft (KB) To 4239.00 ft (KB) (TVD)

Reference Elevations: 2291.00 ft (KB)

Total Depth: 4239.00 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: 53.86 psig @ 4223.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.12.15

End Date:

2013.12.15

Last Calib.:

2013.12.15

Start Time: 01:24:11

End Time:

10:09:10

Time On Btm:

2013.12.15 @ 03:26:40

Time Off Btm:

2013.12.15 @ 06:47:40

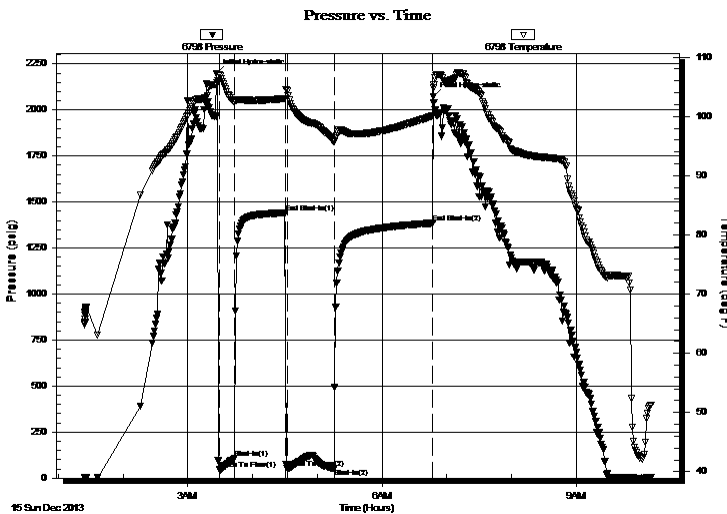
TEST COMMENT: IF: Strong Blow , BOB in 30 seconds

IS: No Blow Back

FF: Strong Blow , BOB immediate, GTS in 3 minutes, Gauged Gas & Caught Sample

FS: No Blow Back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2199.44	105.36	Initial Hydro-static
3	45.57	107.06	Open To Flow (1)
17	110.23	102.29	Shut-In(1)
64	1441.87	103.03	End Shut-In(1)
66	52.34	104.26	Open To Flow (2)
109	53.86	95.73	Shut-In(2)
201	1385.98	100.09	End Shut-In(2)
201	2074.15	104.79	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	4207 GIP	0.00
10.00	SGCM 4%G 96%M	0.05

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	56.00	111.68
Last Gas Rate	0.50	24.00	259.04
Max. Gas Rate	0.25	90.00	165.62



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FLUID SUMMARY

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DST#: 1

ATTN: Jon Christensen

Test Start: 2013.12.15 @ 01:24:10

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:

ppm

Viscosity: 69.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 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 bbl
0.00	4207 GIP	0.000
10.00	SGCM 4%G 96%M	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



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DRILL STEM TEST REPORT

GAS RATES

Strata Exploration

1-27S-20W Kiowa

PO Box 401
Fairfield, Il 62837

Miller B 1-1

Job Ticket: 51909

DST#: 1

ATTN: Jon Christensen

Test Start: 2013.12.15 @ 01:24:10

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	10	0.25	56.00	111.68
2	20	0.25	90.00	165.62
2	30	0.50	44.00	393.95
2	40	0.50	24.00	259.04
2	45	0.50	24.00	259.04

