



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Herman L. Loeb, LLC.
 P.O. Box 838
 Lawrenceville, IL. 62439
 ATTN: Jon Christensen

5-28s-18w Kiowa, Co.

Heft #4-5

Job Ticket: 52002

DST#: 3

Test Start: 2014.04.05 @ 11:29:41

GENERAL INFORMATION:

Formation: **Miss. Chert.**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 13:24:41

Time Test Ended: 19:47:41

Test Type: Conventional Bottom Hole (Reset)

Tester: Matt Smith

Unit No: 53

Interval: 4778.00 ft (KB) To 4838.00 ft (KB) (TVD)

Reference Elevations: 2232.00 ft (KB)

Total Depth: 4838.00 ft (KB) (TVD)

2219.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 13.00 ft

Serial #: 6773 Outside

Press @ Run Depth: 66.17 psig @ 4779.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.04.05

End Date: 2014.04.05

Last Calib.: 2014.04.05

Start Time: 11:29:46

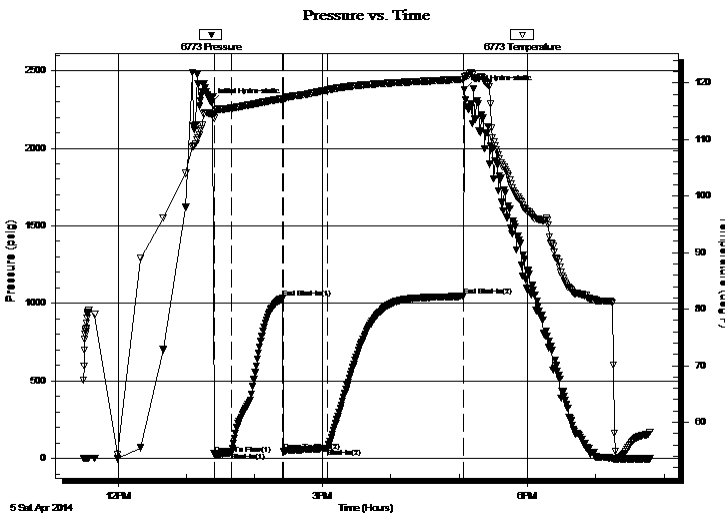
End Time: 19:47:40

Time On Btm: 2014.04.05 @ 13:22:26

Time Off Btm: 2014.04.05 @ 17:04:26

TEST COMMENT: IF: Strong blow . B.O.B. in 2 mins.
 IS: Weak blow . B.O.B. in 21 mins., bleed off in 4 mins.
 FF: Strong blow . B.O.B. in 5 secs.
 FS: No blow . Bleed off for 20 mins.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2297.04	114.48	Initial Hydro-static
3	26.00	113.77	Open To Flow (1)
18	37.30	115.55	Shut-In(1)
63	1032.00	117.18	End Shut-In(1)
63	44.12	116.95	Open To Flow (2)
102	66.17	118.72	Shut-In(2)
222	1046.70	120.65	End Shut-In(2)
222	2377.70	121.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	MCO 95% m 5% o	0.30
60.00	GOCM 10% g 10% o 80% m	0.30
60.00	GOCM 2% o 25% g 75% m	0.30

Gas Rates

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

* Recovery from multiple tests



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FLUID SUMMARY

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Job Ticket: 52002 **DST#: 3**
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Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	6000 ppm
Viscosity: 57.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 6000.00 ppm			
Filter Cake: 0.20 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	MCO 95% <i>m</i> 5% <i>o</i>	0.295
60.00	GOCM 10% <i>g</i> 10% <i>o</i> 80% <i>m</i>	0.295
60.00	GOCM 2% <i>o</i> 25% <i>g</i> 75% <i>m</i>	0.295

Total Length: 180.00 ft Total Volume: 0.885 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none

Laboratory Name: Laboratory Location:

Recovery Comments: Not enough oil recovery to get gravity check.

Serial #: 6773

Outside Herman L. Loeb, LLC.

Heft #4-5

DST Test Number: 3

