



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Herman L. Loeb, LLC.
 P.O. Box 838
 Lawrenceville, IL 62439
 ATTN: Jim Hall

4-35s.-12w. Barber, KS
School Trust 21-4
 Job Ticket: 51871 **DST#: 2**
 Test Start: 2014.01.30 @ 07:29:23

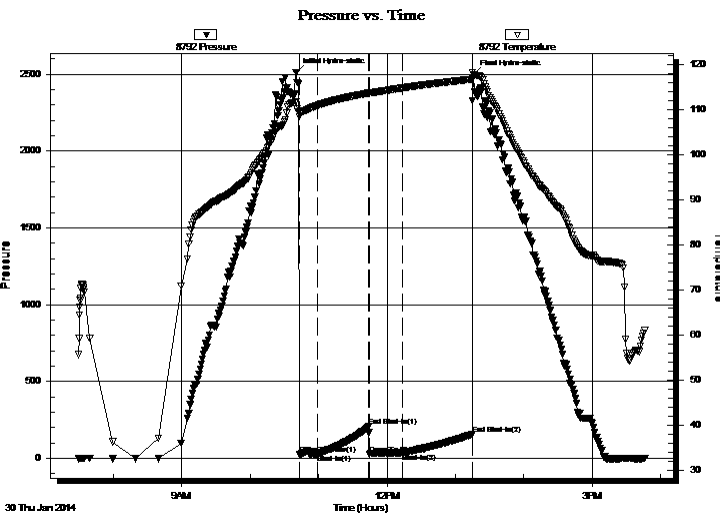
GENERAL INFORMATION:

Formation: **Mississippi**
 Deviated: No Whipstock: 0.00 ft (KB)
 Time Tool Opened: 10:43:38
 Time Test Ended: 15:46:53
 Interval: **4842.00 ft (KB) To 4897.00 ft (KB) (TVD)**
 Total Depth: 4897.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Ryan Reynolds
 Unit No: 48
 Reference Elevations: 1452.00 ft (KB)
 1443.00 ft (CF)
 KB to GR/CF: 9.00 ft

Serial #: 8792 Outside

Press @ RunDepth: 35.57 psig @ 4847.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.01.30 End Date: 2014.01.30 Last Calib.: 2014.01.30
 Start Time: 07:29:28 End Time: 15:46:52 Time On Btm: 2014.01.30 @ 10:40:08
 Time Off Btm: 2014.01.30 @ 13:16:08

TEST COMMENT: IF: Weak blow . 1/4" - 2"
 IS: No blow
 FF: Weak blow . 1" - 3"
 FS: No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2512.21	111.66	Initial Hydro-static
4	25.02	109.18	Open To Flow (1)
19	29.18	110.84	Shut-In(1)
64	206.79	113.61	End Shut-In(1)
65	27.31	113.63	Open To Flow (2)
94	35.57	114.74	Shut-In(2)
155	157.75	116.69	End Shut-In(2)
156	2495.60	117.61	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	OCM 3%oil, 97%mud	0.10
0.00	100' GIP	0.00

* Recovery from multiple tests

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (m ³ /d)



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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:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	4000 ppm
Viscosity:	54.00 sec/qt	Cushion Volume:	bbbl		
Water Loss:	8.78 in ³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4000.00 ppm				
Filter Cake:	0.02 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
20.00	OCM 3%oil, 97%mud	0.098
0.00	100' GIP	0.000

Total Length: 20.00 ft Total Volume: 0.098 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none
 Laboratory Name: Laboratory Location:
 Recovery Comments:

