



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

33-27s-18w Kiowa Co., KS
Kinyon 2-33
 Job Ticket: 54156 **DST#: 1**
 Test Start: 2014.07.18 @ 06:57:20

GENERAL INFORMATION:

Formation: **Lans. A**
 Deviated: No Whipstock: 0.00 ft (KB)
 Time Tool Opened: 08:51:05
 Time Test Ended: 14:19:35
 Interval: **4206.00 ft (KB) To 4222.00 ft (KB) (TVD)**
 Total Depth: 4222.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ryan Reynolds
 Unit No: 68
 Reference Elevations: 2205.00 ft (KB)
 2192.00 ft (CF)
 KB to GR/CF: 13.00 ft

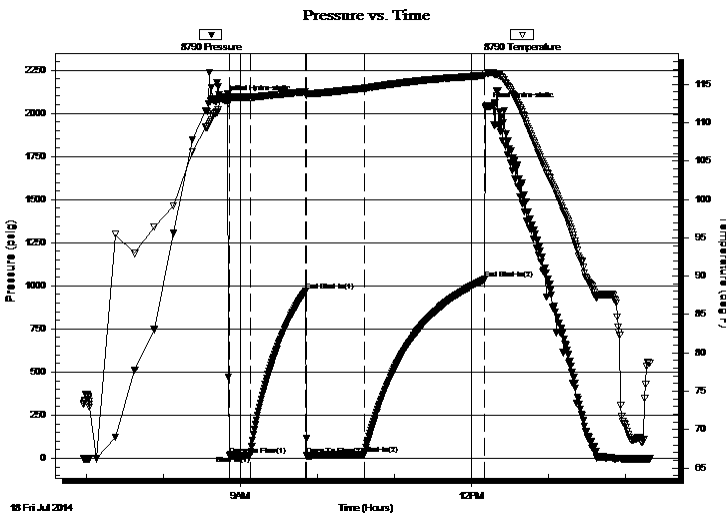
Serial #: 8790

Inside

Press @ Run Depth: 24.88 psig @ 4207.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.07.18 End Date: 2014.07.18 Last Calib.: 2014.07.18
 Start Time: 06:57:25 End Time: 14:19:34 Time On Btm: 2014.07.18 @ 08:45:50
 Time Off Btm: 2014.07.18 @ 12:11:20

TEST COMMENT: IF: Strong blow . BOB @ 15sec.
 IS: No blow
 FF: Strong blow . BOB @ 15sec. No GTS.
 FS: No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2081.01	113.25	Initial Hydro-static
6	18.56	113.19	Open To Flow (1)
22	16.95	113.30	Shut-In(1)
65	968.01	114.06	End Shut-In(1)
66	15.56	113.78	Open To Flow (2)
111	24.88	114.51	Shut-In(2)
205	1037.51	116.18	End Shut-In(2)
206	2038.88	116.44	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	SLI OMCW 2%o, 5%g, 28%m, 65%w	0.15
0.00	2125' GIP	0.00

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:	50000 ppm
Viscosity: 66.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2000.00 ppm			
Filter Cake: 0.02 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	SLI OMCW 2%o, 5%g, 28%m, 65%w	0.148
0.00	2125' GIP	0.000

Total Length: 30.00 ft Total Volume: 0.148 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none
 Laboratory Name: Laboratory Location:
 Recovery Comments:

