



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Herman L Loeb LLC
 PO Box 838
 Lawrenceville, IL 62439
 ATTN: Jon Christensen

20-27S-18W Kiowa
Randel 3-20
 Job Ticket: 57756 **DST#: 1**
 Test Start: 2014.09.07 @ 17:37:19

GENERAL INFORMATION:

Formation: **Lansing KC "I"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 20:21:49
 Time Test Ended: 01:33:04
 Interval: **4398.00 ft (KB) To 4417.00 ft (KB) (TVD)**
 Total Depth: 4417.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Leal Cason
 Unit No: 74
 Reference Elevations: 2201.00 ft (KB)
 2188.00 ft (CF)
 KB to GR/CF: 13.00 ft

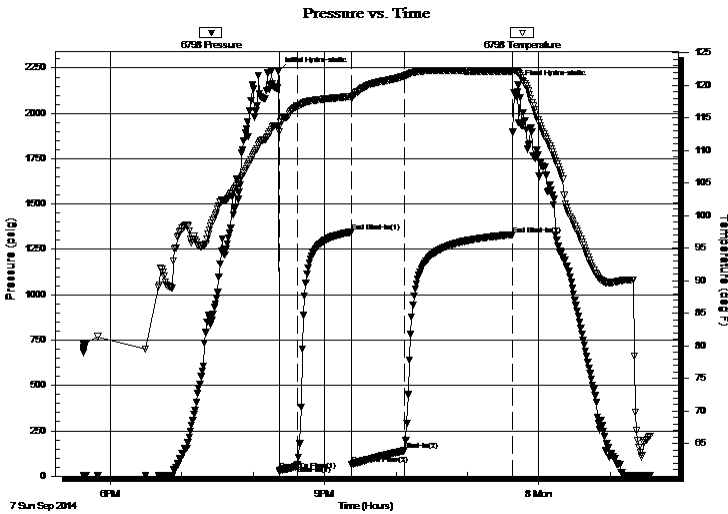
Serial #: 6798

Inside

Press @ Run Depth: 140.87 psig @ 4399.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.09.07 End Date: 2014.09.08 Last Calib.: 2014.09.08
 Start Time: 17:37:20 End Time: 01:33:04 Time On Btm: 2014.09.07 @ 20:21:04
 Time Off Btm: 2014.09.07 @ 23:42:19

TEST COMMENT: IF: Fair Blow , Built to 8 1/2 inches
 IS: No Blow Back
 FF: Fair Blow , BOB in 44 minutes
 FS: No Blow Back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2231.48	113.86	Initial Hydro-static
1	32.71	112.90	Open To Flow (1)
16	59.93	116.87	Shut-In(1)
62	1346.41	118.29	End Shut-In(1)
62	65.29	118.14	Open To Flow (2)
106	140.87	121.41	Shut-In(2)
197	1331.64	122.13	End Shut-In(2)
202	2156.25	121.96	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	186 GIP	0.00
120.00	Water	0.59
120.00	GWCM 2%G 20%W 78%M	0.59
20.00	SOGCM 2%O 2%G 96%M	0.10

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/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:	78000 ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.99 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 bbl
0.00	186 GIP	0.000
120.00	Water	0.590
120.00	GWCM 2%G 20%W 78%M	0.590
20.00	SOGCM 2%O 2%G 96%M	0.098

Total Length: 260.00 ft Total Volume: 1.278 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: RW w as .1 @ 70 degrees

