



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

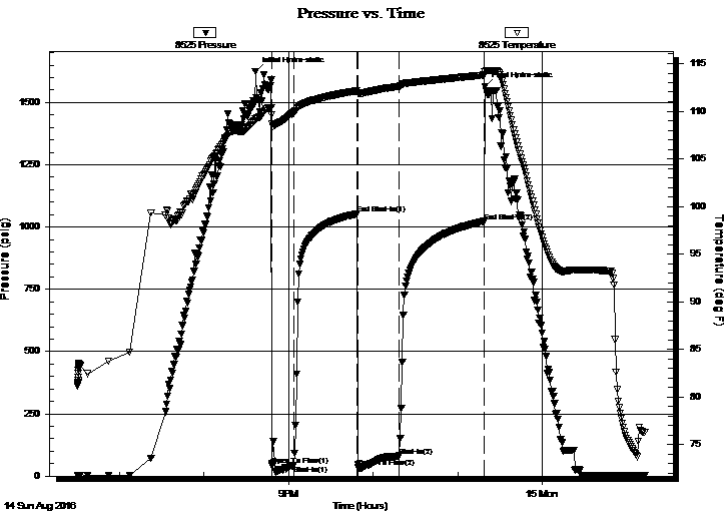
2-31S-3W Sumner
Lange 1
 Job Ticket: 55407 **DST#: 1**
 Test Start: 2016.08.14 @ 18:30:34

GENERAL INFORMATION:

Formation: **Upper KC**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 20:48:04 Tester: Leal Cason
 Time Test Ended: 01:12:49 Unit No: 74
 Interval: **3184.00 ft (KB) To 3200.00 ft (KB) (TVD)** Reference Elevations: 1305.00 ft (KB)
 Total Depth: 3200.00 ft (KB) (TVD) 1294.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 11.00 ft

Serial #: 8525 Inside
 Press@RunDepth: 81.38 psig @ 3185.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.08.14 End Date: 2016.08.15 Last Calib.: 2016.08.15
 Start Time: 18:30:35 End Time: 01:12:49 Time On Btm: 2016.08.14 @ 20:36:34
 Time Off Btm: 2016.08.14 @ 23:19:19

TEST COMMENT: IF: Strong Blow , BOB in 3 minutes
 IS: No Blow Back
 FF: Strong Blow , BOB in 1 minute
 FS: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1625.50	109.16	Initial Hydro-static
12	41.75	109.64	Open To Flow (1)
28	43.28	109.88	Shut-In(1)
72	1052.85	112.14	End Shut-In(1)
73	36.84	111.87	Open To Flow (2)
102	81.38	112.61	Shut-In(2)
162	1023.05	113.79	End Shut-In(2)
163	1564.85	114.17	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	MCO 14%M 86%O	0.61
61.00	MCO 10%M 90%O	0.30

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:	ppm
Viscosity: 56.00 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
124.00	MCO 14%M 86%O	0.610
61.00	MCO 10%M 90%O	0.300

Total Length: 185.00 ft Total Volume: 0.910 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Pressure vs. Time

