



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

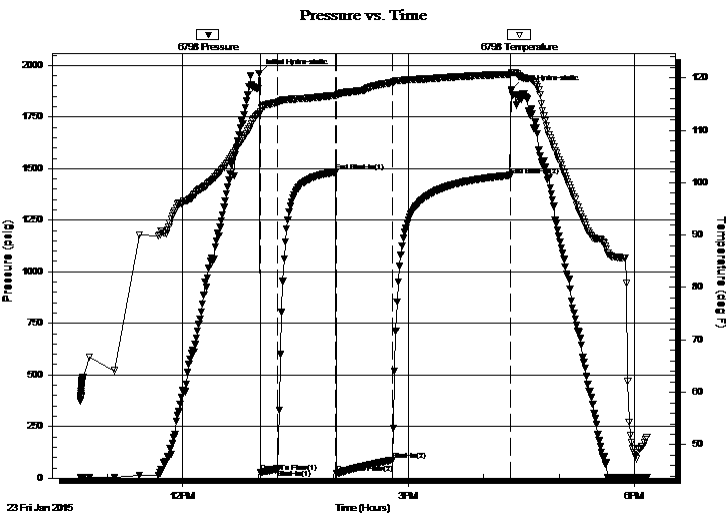
2-31S-3W Sumner
Southborough 1
 Job Ticket: 59898 **DST#: 3**
 Test Start: 2015.01.23 @ 10:38:36

GENERAL INFORMATION:

Formation: **Mississippi**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 13:01:51 Tester: Leal Cason
 Time Test Ended: 18:10:36 Unit No: 74
 Interval: **3830.00 ft (KB) To 3858.00 ft (KB) (TVD)** Reference Elevations: 1317.00 ft (KB)
 Total Depth: 3858.00 ft (KB) (TVD) 1308.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 9.00 ft

Serial #: 6798 Inside
 Press @ Run Depth: 87.18 psig @ 3831.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.01.23 End Date: 2015.01.23 Last Calib.: 2015.01.23
 Start Time: 10:38:37 End Time: 18:10:36 Time On Btm: 2015.01.23 @ 13:00:51
 Time Off Btm: 2015.01.23 @ 16:22:06

TEST COMMENT: IF: Strong Blow , BOB in 15 seconds
 IS: No Blow Back
 FF: Strong Blow , BOB in 10 seconds, GTS in 30 seconds, Gauged & caught Sample
 FS: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1961.58	113.08	Initial Hydro-static
1	28.30	113.56	Open To Flow (1)
15	43.92	115.29	Shut-In(1)
61	1483.03	116.63	End Shut-In(1)
62	22.51	116.58	Open To Flow (2)
107	87.18	119.08	Shut-In(2)
201	1466.89	120.65	End Shut-In(2)
202	1883.22	121.01	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	3747 GIP	0.00
80.00	GOMCW 24%G 4%O 32%M 40%W	0.39

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	18.00	51.40
Last Gas Rate	0.25	38.00	83.13
Max. Gas Rate	0.25	38.00	83.13



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

2-31S-3W Sumner
Southborough 1
 Job Ticket: 59898 **DST#: 3**
 Test Start: 2015.01.23 @ 10:38:36

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: 110000 ppm	
Viscosity: 58.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.78 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3500.00 ppm			
Filter Cake: 0.02 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	3747 GIP	0.000
80.00	GOMCW 24%G 4%O 32%M 40%W	0.393

Total Length: 80.00 ft Total Volume: 0.393 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: RW was .13 @ 41 degrees



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

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

2-31S-3W Sumner
Southborough 1
Job Ticket: 59898 **DST#: 3**
Test Start: 2015.01.23 @ 10:38:36

Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
2	10	0.25	18.00	51.40
2	20	0.25	24.00	60.92
2	30	0.25	30.00	70.44
2	40	0.25	36.00	79.95
2	45	0.25	38.00	83.13

