



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Herman L.Loeb LLC
 P.O.Box 838
 Lawrenceville IL.62437
 ATTN: Tom Pronold

21-27s-20w Kiowa Ks.
C. Einsele #3-21
 Job Ticket: 45736 **DST#: 2**
 Test Start: 2012.02.15 @ 00:52:25

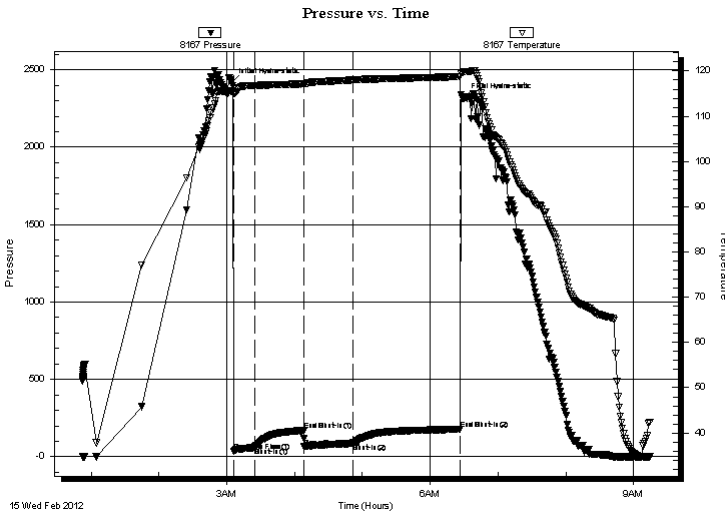
GENERAL INFORMATION:

Formation: **Spergen**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:05:55
 Time Test Ended: 09:14:10
 Interval: **4810.00 ft (KB) To 4880.00 ft (KB) (TVD)**
 Total Depth: 4880.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition:
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Gary Pevoteaux
 Unit No: 56
 Reference Elevations: 2306.00 ft (KB)
 2295.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8167 Inside
 Press @ Run Depth: 86.04 psig @ 4811.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.02.15 End Date: 2012.02.15 Last Calib.: 2012.02.15
 Start Time: 00:52:26 End Time: 09:14:10 Time On Btm: 2012.02.15 @ 03:04:10
 Time Off Btm: 2012.02.15 @ 06:29:40

TEST COMMENT: IF:Weak blow . Slow increase to 4".
 IS:No blow .
 FF:Weak to fair blow . 1 - 5 1/2".
 FS:No blow .

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2415.83	115.55	Initial Hydro-static
2	36.42	115.01	Open To Flow (1)
21	58.85	116.79	Shut-In(1)
64	169.24	117.16	End Shut-In(1)
65	63.99	117.15	Open To Flow (2)
108	86.04	118.06	Shut-In(2)
203	176.40	118.78	End Shut-In(2)
206	2322.58	119.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
122.00	SOCM 3%o 97%m	0.60
0.00	115 ft.of GIP	0.00

* Recovery from multiple tests

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:	4000 ppm
Viscosity: 43.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.39 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: 0.20 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
122.00	SOCM 3%o 97%m	0.600
0.00	115 ft.of GIP	0.000

Total Length: 122.00 ft Total Volume: 0.600 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none
 Laboratory Name: Laboratory Location:
 Recovery Comments:

