



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: 45737 **DST#: 3**
 Test Start: 2012.02.15 @ 21:51:14

GENERAL INFORMATION:

Formation: **Spergen/Warsaw**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:29:29
 Time Test Ended: 06:19:14
 Interval: **4880.00 ft (KB) To 4929.00 ft (KB) (TVD)**
 Total Depth: 4929.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 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

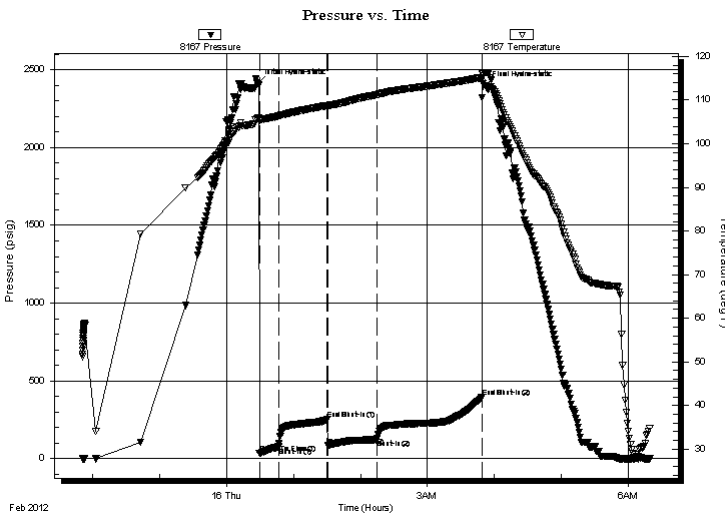
Serial #: 8167

Inside

Press @ Run Depth: 124.98 psig @ 4881.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.02.15 End Date: 2012.02.16 Last Calib.: 2012.02.16
 Start Time: 21:51:15 End Time: 06:19:14 Time On Btm: 2012.02.16 @ 00:27:59
 Time Off Btm: 2012.02.16 @ 03:51:59

TEST COMMENT: IF:Weak to fair blow . Increase to 7".
 IS:No blow .
 FF:Weak to fair blow . Increase to 9 - 10".
 FS:No blow .

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2409.66	105.84	Initial Hydro-static
2	33.60	105.30	Open To Flow (1)
19	76.57	106.30	Shut-In(1)
63	251.31	108.70	End Shut-In(1)
63	82.55	108.69	Open To Flow (2)
107	124.98	111.19	Shut-In(2)
201	396.49	115.17	End Shut-In(2)
204	2396.78	116.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
125.00	MW/w o specs 22% m 78% w /rw .14 hrs	0.61 deg
100.00	SOCM 3% o 97% m	0.56
0.00	25 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:	96000 ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.59 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 5700.00 ppm			
Filter Cake: 0.20 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
125.00	MW/w o specs 22% _m 78% _w /rw .14ohms @ 4'	0.615
100.00	SOCM 3% _o 97% _m	0.565
0.00	25 ft.of GIP	0.000

Total Length: 225.00 ft Total Volume: 1.180 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none
Laboratory Name: Laboratory Location:
Recovery Comments:

