



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Larson Engineering
562 W St. Rd 4
Olmitz Ks, 67564
ATTN: Vern Schrag

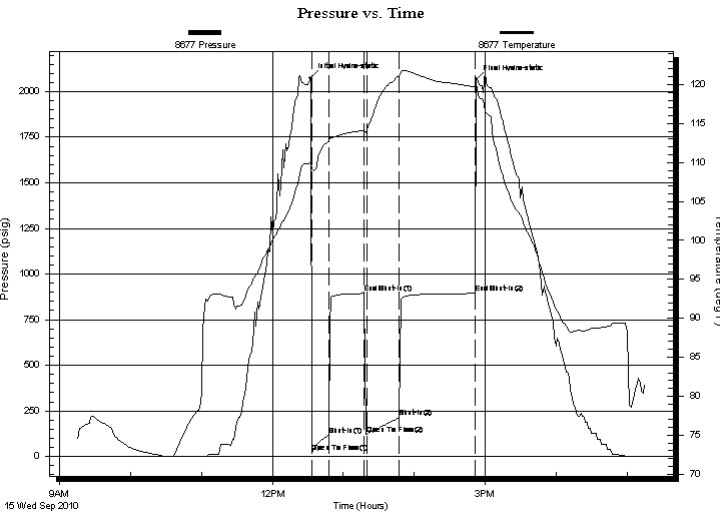
Cramer 2-22
22/17s/30w
Job Ticket: 37390 **DST#: 2**
Test Start: 2010.09.15 @ 09:15:11

GENERAL INFORMATION:

Formation: 'I, J'
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole
Time Tool Opened: 12:33:41 Tester: Mike Slemp
Time Test Ended: 17:15:41 Unit No: 53
Interval: 4147.00 ft (KB) To 4198.00 ft (KB) (TVD) Reference Elevations: 2867.00 ft (KB)
Total Depth: 4198.00 ft (KB) (TVD) 2862.00 ft (CF)
Hole Diameter: 7.78 inches Hole Condition: Good KB to GR/CF: 5.00 ft

Serial #: 8677 Inside
Press @ RunDepth: 212.89 psig @ 4149.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2010.09.15 End Date: 2010.09.15 Last Calib.: 2010.09.15
Start Time: 09:15:12 End Time: 17:15:41 Time On Btm: 2010.09.15 @ 12:32:26
Time Off Btm: 2010.09.15 @ 14:52:26

TEST COMMENT: IF- Weak building blow 8 inches in 15 min
IS- No blow back
FF- Strong building blow BOB in 22 min
FS- No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2075.21	109.96	Initial Hydro-static
2	25.60	109.22	Open To Flow (1)
15	114.00	112.71	Shut-In(1)
45	893.60	114.13	End Shut-In(1)
48	123.10	114.02	Open To Flow (2)
75	212.89	121.21	Shut-In(2)
139	893.64	119.69	End Shut-In(2)
140	2068.10	120.13	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
444.00	WCM 60% mud 40% water	4.69

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: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
444.00	WCM 60% mud 40% water	4.689

Total Length: 444.00 ft Total Volume: 4.689 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

