



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

DNOC
 POB 1019
 Hays, KS 67601
 ATTN: Marc Downing

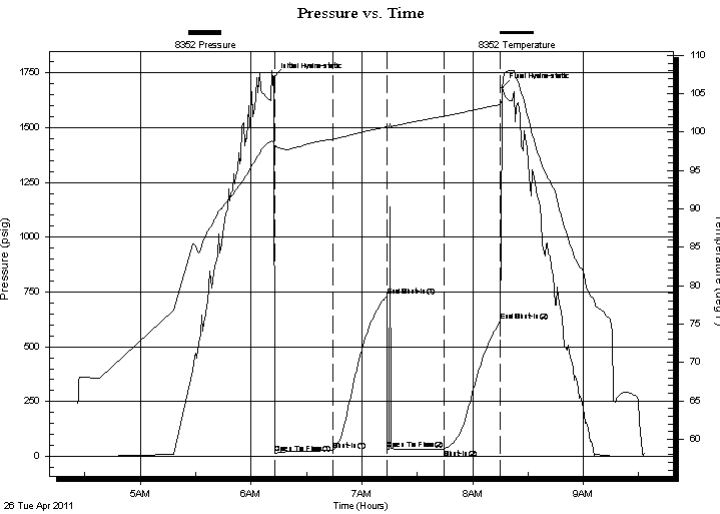
Alma Herl 1-13
S13-13s-19w Ellis,KS
 Job Ticket: 041815 **DST#: 3**
 Test Start: 2011.04.26 @ 04:26:05

GENERAL INFORMATION:

Formation: **LKC"H,I,J"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 06:13:00
 Time Test Ended: 09:33:39
Interval: 3481.00 ft (KB) To 3548.00 ft (KB) (TVD)
 Total Depth: 3548.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole
 Tester: Andy Carreira
 Unit No: 39
 Reference Elevations: 2062.00 ft (KB)
 2054.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8352 Outside
 Press @ Run Depth: 32.54 psig @ 3485.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.04.26 End Date: 2011.04.26 Last Calib.: 2011.04.26
 Start Time: 04:26:05 End Time: 09:33:40 Time On Btm: 2011.04.26 @ 06:12:10
 Time Off Btm: 2011.04.26 @ 08:16:00

TEST COMMENT: IF:(30min) Blow died in 15 min.
 IS:(30min) No Return
 FF:(30min) No Blow , Flushed, Surge, No Blow
 FS:(30min) No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1730.25	98.75	Initial Hydro-static
1	14.83	97.91	Open To Flow (1)
32	27.13	99.10	Shut-In(1)
62	729.69	100.69	End Shut-In(1)
62	32.03	100.37	Open To Flow (2)
93	32.54	102.09	Shut-In(2)
123	615.82	103.59	End Shut-In(2)
124	1682.51	105.42	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud w /slight oil specks in tool	0.05

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (MMcf/d)



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FLUID SUMMARY

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Job Ticket: 041815

DST#: 3

ATTN: Marc Downing

Test Start: 2011.04.26 @ 04:26:05

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: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud w /slight oil specks in tool	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

