



**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: 43117 **DST#: 2**
Test Start: 2011.04.25 @ 12:07:00

GENERAL INFORMATION:

Formation: **LKC 'E-F'**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole
Time Tool Opened: 13:23:40 Tester: Chuck Smith
Time Test Ended: 18:14:20 Unit No: 37
Interval: 3428.00 ft (KB) To 3455.00 ft (KB) (TVD) Reference Elevations: 2062.00 ft (KB)
Total Depth: 3455.00 ft (KB) (TVD) 2054.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 8.00 ft

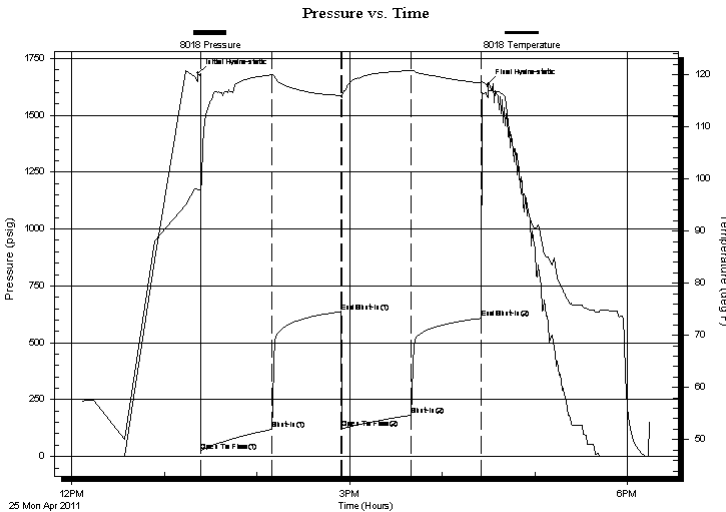
Serial #: 8018

Inside

Press @ Run Depth: 181.46 psig @ 3447.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.04.25 End Date: 2011.04.25 Last Calib.: 2011.04.25
Start Time: 12:07:05 End Time: 18:14:20 Time On Btm: 2011.04.25 @ 13:21:50
Time Off Btm: 2011.04.25 @ 16:29:39

TEST COMMENT: IF: B.O.B. @ 16 min.
IS: Weak surface return died at 5 min.
FF: B.O.B. @ 31 min.
FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1683.29	98.00	Initial Hydro-static
2	20.81	97.32	Open To Flow (1)
48	119.89	119.97	Shut-In(1)
93	637.35	115.99	End Shut-In(1)
94	122.85	115.92	Open To Flow (2)
138	181.46	120.76	Shut-In(2)
184	607.53	118.40	End Shut-In(2)
188	1637.19	117.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	RW: .225 @ 50 Degrees F = 45000 PPM	0.00
300.00	MW 10m 90w	3.93
45.00	OSMW 20m 80w	0.63

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
Mud Weight: 9.00 lb/gal
Viscosity: 70.00 sec/qt
Water Loss: 7.98 in³
Resistivity: ohm.m
Salinity: 4500.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 0 deg API
Water Salinity: 45000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	RW: .225 @ 50 Degrees F = 45000 PPM	0.000
300.00	MW 10m 90w	3.926
45.00	OSMW 20m 80w	0.631

Total Length: 345.00 ft Total Volume: 4.557 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time

