



**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: 43116 **DST#: 1**
Test Start: 2011.04.24 @ 23:21:00

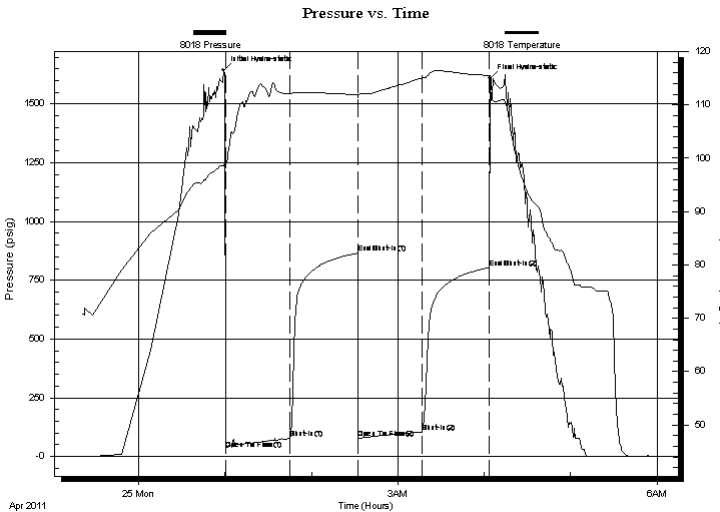
GENERAL INFORMATION:

Formation: **LKC 'C,D'**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 01:00:20
Time Test Ended: 05:55:20
Interval: **3384.00 ft (KB) To 3428.00 ft (KB) (TVD)**
Total Depth: 3428.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole
Tester: Chuck Smith
Unit No: 37
Reference Elevations: 2062.00 ft (KB)
2054.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8018 **Inside**
Press @ Run Depth: 104.97 psig @ 3387.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.04.24 End Date: 2011.04.25 Last Calib.: 2011.04.25
Start Time: 23:21:05 End Time: 05:55:20 Time On Btm: 2011.04.25 @ 00:58:50
Time Off Btm: 2011.04.25 @ 04:04:00

TEST COMMENT: IF: 9" Blow. Tool slid 5 feet.
IS: Weak return died @ 6 min.
FF: 6" Blow.
FS: 1/2" Return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1643.41	98.67	Initial Hydro-static
2	31.99	98.65	Open To Flow (1)
47	76.19	112.13	Shut-In(1)
94	865.31	111.92	End Shut-In(1)
94	78.27	111.83	Open To Flow (2)
139	104.97	115.02	Shut-In(2)
185	804.41	115.54	End Shut-In(2)
186	1609.29	115.48	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	RW: .230 @ 48 Degrees F = 45000 PPM	0.00
120.00	WCM 10w 90m	1.40
70.00	OSMW 20m 80w	0.98

Gas Rates

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



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FLUID SUMMARY

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ATTN: Marc Downing

Test Start: 2011.04.24 @ 23:21:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

45000 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.60 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	RW: .230 @ 48 Degrees F = 45000 PPM	0.000
120.00	WCM 10w 90m	1.401
70.00	OSMW 20m 80w	0.982

Total Length: 190.00 ft

Total Volume: 2.383 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

