



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FIML Natural Resources

Smith 13c-16-1931

410 17th St.
STE 900
Denver Co.80202
ATTN: Josh Austin

Sec 16 Twp 19sRge31w

Job Ticket: 37970 **DST#: 1**

Test Start: 2010.08.05 @ 04:25:00

GENERAL INFORMATION:

Formation: **LKC-I**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:21:30

Time Test Ended: 11:01:30

Test Type: Conventional Bottom Hole

Tester: Chuck Kreuzer Jr.

Unit No: 36

Interval: 4186.00 ft (KB) To 4210.00 ft (KB) (TVD)

Reference Elevations: 2974.00 ft (KB)

Total Depth: 4210.00 ft (KB) (TVD)

2962.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 12.00 ft

Serial #: 6741

Inside

Press @ Run Depth: 299.31 psig @ 4187.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.08.05

End Date:

2010.08.05

Last Calib.: 2010.08.05

Start Time: 04:25:01

End Time:

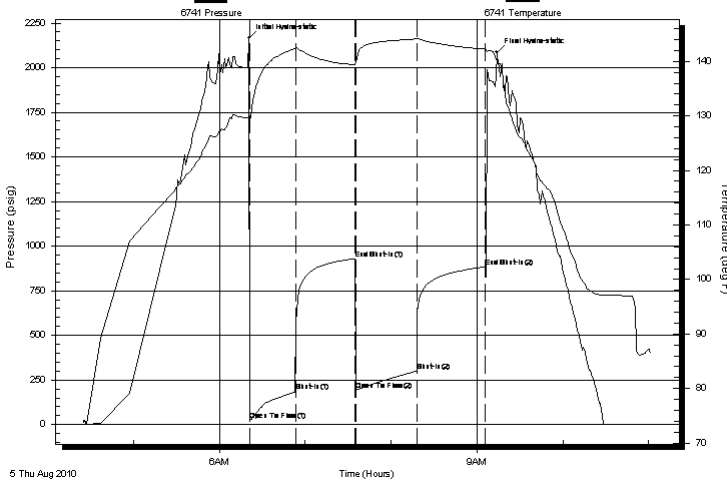
11:01:30

Time On Btm: 2010.08.05 @ 06:20:30

Time Off Btm: 2010.08.05 @ 09:14:00

TEST COMMENT: IF: Strong blow , Built to B.O.B in 10 mins.
IS: Bled off, No blow back over 45 mins.
FF: Strong blow , Built to B.O.B in 10 mins.
FS: Bled off, No blow back over 50 mins.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2164.30	129.89	Initial Hydro-static
1	23.40	129.07	Open To Flow (1)
33	184.60	142.34	Shut-In(1)
74	929.64	139.37	End Shut-In(1)
75	191.74	140.05	Open To Flow (2)
118	299.31	144.11	Shut-In(2)
166	884.54	142.25	End Shut-In(2)
174	2087.35	140.32	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
642.00	water-100%w	6.82

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: 40000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume: bbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 1600.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
642.00	water-100%w	6.819

Total Length: 642.00 ft Total Volume: 6.819 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .14@90*=40000

