



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Great Plains Energy

15-16s-36w Thomas, Ks

6121 S 58th st ste B
Lincoln, Ne 68516

Luckert 1-15

Job Ticket: 53170

DST#: 1

ATTN: Clayton Erickson

Test Start: 2013.06.29 @ 03:41:03

GENERAL INFORMATION:

Formation: **LKC A-C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:39:48

Time Test Ended: 11:25:18

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Turley

Unit No: 60

Interval: 4228.00 ft (KB) To 4277.00 ft (KB) (TVD)

Reference Elevations: 3380.00 ft (KB)

Total Depth: 4277.00 ft (KB) (TVD)

3370.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8373

Inside

Press @ Run Depth: 563.72 psig @ 4229.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.06.29

End Date:

2013.06.29

Last Calib.:

2013.06.29

Start Time: 03:41:08

End Time:

11:25:17

Time On Btm:

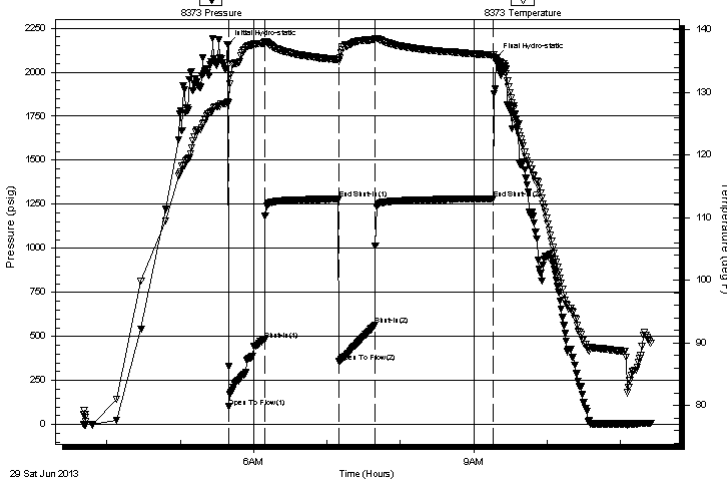
2013.06.29 @ 05:39:03

Time Off Btm:

2013.06.29 @ 09:18:33

TEST COMMENT: IF: BOB in 5 min.
IS: No return.
FF: BOB in 7 min.
FS: No return.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2158.51	128.53	Initial Hydro-static
1	100.64	128.41	Open To Flow (1)
30	481.05	137.86	Shut-In(1)
91	1280.32	135.23	End Shut-In(1)
91	355.77	134.99	Open To Flow (2)
121	563.72	138.39	Shut-In(2)
217	1281.66	135.94	End Shut-In(2)
220	2084.62	134.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
558.00	mcw 90%w 10%m	5.92
310.00	mcw 70%w 30%m	4.53
310.00	mcw 60%w 40%m	4.53

Gas Rates

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



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FLUID SUMMARY

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Luckert 1-15

Job Ticket: 53170

DST#: 1

ATTN: Clayton Erickson

Test Start: 2013.06.29 @ 03:41:03

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:

6500 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2700.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
558.00	mcw 90%w 10%m	5.918
310.00	mcw 70%w 30%m	4.534
310.00	mcw 60%w 40%m	4.534

Total Length: 1178.00 ft Total Volume: 14.986 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .07@96=6500

