



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Great Plains Energy Inc.

32/2s/23w Norton, KS

6121 S 58th St STE B
Lincoln, NE 68516

Lang #1

Job Ticket: 64212

DST#: 3

ATTN: Richard Bell

Test Start: 2018.07.25 @ 15:59:00

GENERAL INFORMATION:

Formation: **LKC "H - K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:49:45

Time Test Ended: 23:07:30

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 83

Interval: 3477.00 ft (KB) To 3550.00 ft (KB) (TVD)

Reference Elevations: 2346.00 ft (KB)

Total Depth: 3550.00 ft (KB) (TVD)

2339.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 8017 Outside

Press@RunDepth: 37.43 psig @ 3478.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.07.25 End Date: 2018.07.25

Last Calib.: 2018.07.25

Start Time: 15:59:05 End Time: 23:07:29

Time On Btm: 2018.07.25 @ 17:48:15

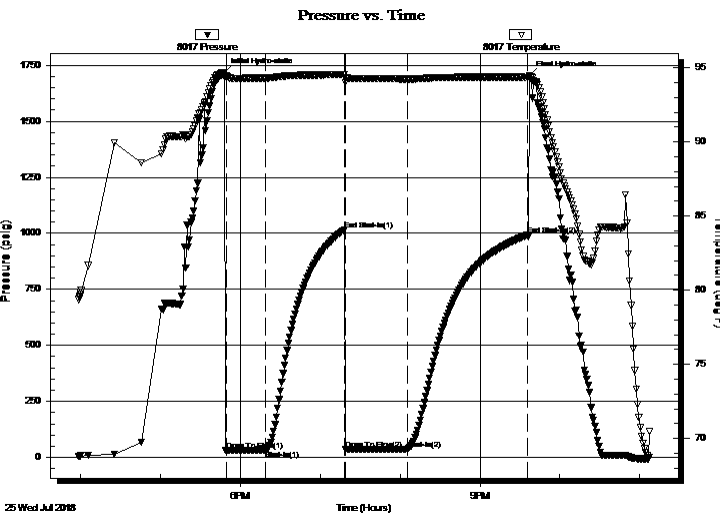
Time Off Btm: 2018.07.25 @ 21:37:00

TEST COMMENT: 30 - IF: 1/8" Blow at open, built to 3/4"

60 - IS: No blow back

45 - FF: No blow

90 - FS: No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1717.84	94.68	Initial Hydro-static
2	32.48	94.43	Open To Flow (1)
31	34.16	94.30	Shut-In(1)
91	1016.13	94.52	End Shut-In(1)
91	34.99	93.99	Open To Flow (2)
137	37.43	94.22	Shut-In(2)
228	992.41	94.35	End Shut-In(2)
229	1704.16	94.48	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mud w /trace oil 100%m	0.10

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Great Plains Energy Inc.

32/2s/23w Norton, KS

6121 S 58th St STE B
Lincoln, NE 68516

Lang #1

Job Ticket: 64212

DST#: 3

ATTN: Richard Bell

Test Start: 2018.07.25 @ 15:59:00

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: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1400.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	Mud w /trace oil 100%m	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

