



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Great Plains Energy Inc

29 3s 26w Decatur KS

6121 S 58th ST Ste B
Lincoln NE 68516

Votapka A 1

Job Ticket: 64511

DST#: 1

ATTN: Rich Bell

Test Start: 2018.03.05 @ 22:01:00

GENERAL INFORMATION:

Formation: **Pallnew & D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:16:46

Time Test Ended: 06:22:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jim Svaty

Unit No: 76

Interval: **3600.00 ft (KB) To 3636.00 ft (KB) (TVD)**

Reference Elevations: 2588.00 ft (KB)

Total Depth: 3636.00 ft (KB) (TVD)

2583.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8400 Outside

Press@RunDepth: 227.21 psig @ 3603.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.03.05

End Date:

2018.03.06

Last Calib.:

2018.03.06

Start Time:

22:01:01

End Time:

06:21:46

Time On Btm:

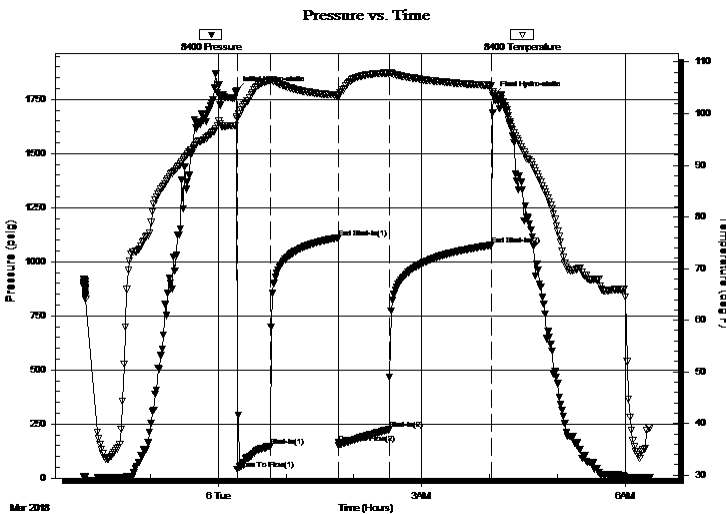
2018.03.06 @ 00:16:31

Time Off Btm:

2018.03.06 @ 04:03:16

TEST COMMENT: 30-IFP- BOB in 14min.
60-ISIP- Very Weak Surface Blow in 5min. Dead in 10min.
45-FFP- BOB in 18min.
90-FSIP- Weak Surface Blow in 2min. Dead in 16min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1789.00	99.29	Initial Hydro-static
1	41.44	99.00	Open To Flow (1)
30	148.70	106.49	Shut-In(1)
90	1110.83	103.55	End Shut-In(1)
90	162.62	103.03	Open To Flow (2)
135	227.21	107.87	Shut-In(2)
226	1076.41	105.45	End Shut-In(2)
227	1769.06	103.85	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
425.00	MCW 5% m 95% w 1in. Oil Cap	4.08
0.00	20 GIP	0.00

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:

150000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.00 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
425.00	MCW 5% _m 95% _w 1in. Oil Cap	4.076
0.00	20 GIP	0.000

Total Length: 425.00 ft Total Volume: 4.076 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .133 @ 33

