



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Culbreath Oil & Gas Company Inc.

5-15S-34W Logan, KS

3501 S. Yale Ave.
Tulsa, OK 74135

Sowers #1-5

Job Ticket: 61287

DST#: 1

ATTN: Richard Bell

Test Start: 2016.10.06 @ 15:38:23

GENERAL INFORMATION:

Formation: **LKC "B-D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Time Test Ended: 01:40:22

Test Type: Conventional Bottom Hole (Initial)

Tester: Brannan Lonsdale

Unit No: 73

Interval: 3818.00 ft (KB) To 3886.00 ft (KB) (TVD)

Reference Elevations: 2922.00 ft (KB)

Total Depth: 3886.00 ft (KB) (TVD)

2912.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 10.00 ft

Serial #: 6651 Inside

Press@RunDepth: psig @ 3821.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.10.06

End Date: 2016.10.07

Last Calib.: 2016.10.07

Start Time: 15:38:23

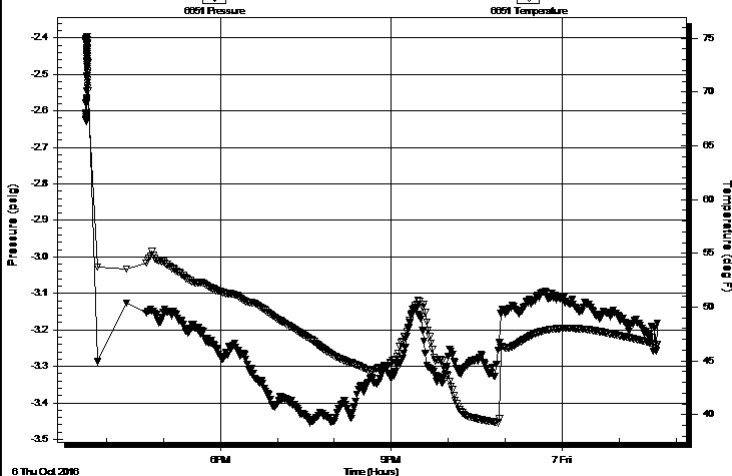
End Time: 01:40:22

Time On Btm:

Time Off Btm:

TEST COMMENT: 30- IF- BOB 4mins
60- IS- No blow
30- FF- BOB 7mins
90- FS- No blow No pressures- forgot to put recorders in tool

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
917.00	MW, 30%M 70%W	13.00

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:

40000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 12500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
917.00	MW, 30%M 70%W	12.999

Total Length: 917.00 ft Total Volume: 12.999 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .25 @ 47deg