



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Culbreath Oil & Gas, LLS

**18-9s-25w Graham, KS**

1532 S Peoria Ave.  
Tulsa, Ok 74120

**Toll #1-18**

ATTN: Steve Murphy

Job Ticket: 57515

**DST#: 1**

Test Start: 2014.04.06 @ 09:38:00

## GENERAL INFORMATION:

Formation: **LKC "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:21:00

Time Test Ended: 19:34:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Phillip Gage

Unit No: 73

**Interval: 3846.00 ft (KB) To 3864.00 ft (KB) (TVD)**

Reference Elevations: 2592.00 ft (KB)

Total Depth: 3864.00 ft (KB) (TVD)

2587.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8940 Outside**

Press @ Run Depth: 573.89 psig @ 3861.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.04.06

End Date:

2014.04.06

Last Calib.:

2014.04.06

Start Time: 09:38:05

End Time:

19:34:15

Time On Btm:

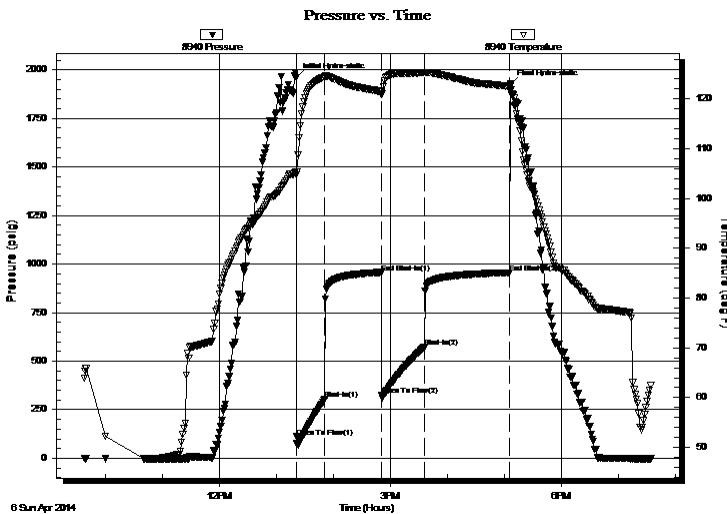
2014.04.06 @ 13:20:45

Time Off Btm:

2014.04.06 @ 17:06:45

**TEST COMMENT:** 30-IF-BOB in 7 mins  
60-ISI-1/4" Return  
45-FF-BOB in 6 mins  
90-FSI-No Return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1959.39	105.40	Initial Hydro-static
1	110.39	104.76	Open To Flow (1)
31	302.98	124.38	Shut-In(1)
90	956.37	121.37	End Shut-In(1)
90	325.31	120.92	Open To Flow (2)
135	573.89	125.26	Shut-In(2)
225	956.19	122.54	End Shut-In(2)
226	1926.35	121.81	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1008.00	MW, 5% m, 95% w, with oil spots	13.87
252.00	SOMCW, 5% o, 40% m, 55% w	3.53
5.00	O, 100%	0.07

## 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:

ppm

Viscosity: 63.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.40 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1008.00	MW, 5% <sub>m</sub> , 95% <sub>w</sub> , with oil spots	13.866
252.00	SOMCW, 5% <sub>o</sub> , 40% <sub>m</sub> , 55% <sub>w</sub>	3.535
5.00	O, 100% <sub>o</sub>	0.070

Total Length: 1265.00 ft      Total Volume: 17.471 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .34 @ 58 degrees = 44,000 Salinity

### Pressure vs. Time

