



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Black Diamond Oil

**25 - 5S - 21W - Norton Ks**

P.O. Box 641  
Hays KS 67601

**Kemper B #1**

Job Ticket: 53515

**DST#: 2**

ATTN: Steve Reed

Test Start: 2013.10.10 @ 14:16:00

## GENERAL INFORMATION:

Formation: **LKC " I - K "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:03:00

Time Test Ended: 20:54:39

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 41

**Interval: 3505.00 ft (KB) To 3550.00 ft (KB) (TVD)**

Total Depth: 3550.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2191.00 ft (KB)

2186.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 8322 Outside**

Press @ Run Depth: 67.90 psig @ 3506.00 ft (KB)

Start Date: 2013.10.10

End Date: 2013.10.10

Start Time: 14:16:01

End Time: 20:54:40

Capacity: 8000.00 psig

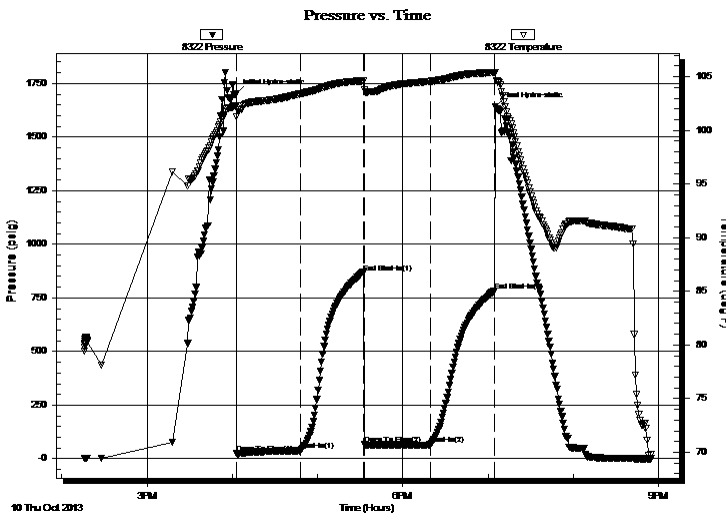
Last Calib.: 2013.09.10

Time On Btm: 2013.10.10 @ 16:02:50

Time Off Btm: 2013.10.10 @ 19:05:20

**TEST COMMENT:** 45 IF - Surface blow built to 7"  
45 ISI - No return  
45 FF - Surface blow started @ 2 mins built to 6"  
45 FSI - No return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1701.56	102.34	Initial Hydro-static
1	24.72	101.28	Open To Flow (1)
45	38.09	103.40	Shut-In(1)
90	868.47	104.60	End Shut-In(1)
90	65.80	103.76	Open To Flow (2)
137	67.90	104.57	Shut-In(2)
182	782.90	105.39	End Shut-In(2)
183	1643.51	105.40	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	MCO - 25%M - 75%o	0.59
15.00	Oil - 100%o	0.17

## Gas Rates

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

\* Recovery from multiple tests



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**FLUID SUMMARY**

Black Diamond Oil

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**Kemper B #1**

Job Ticket: 53515

**DST#: 2**

ATTN: Steve Reed

Test Start: 2013.10.10 @ 14:16:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36.4 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
120.00	MCO - 25%M - 75%o	0.590
15.00	Oil - 100%o	0.174

Total Length: 135.00 ft      Total Volume: 0.764 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Oil API = 39 @ 86 DEG F = 36.4 COR 60 DEG F

Serial #: 8322

Outside Black Diamond Oil

Kemper B #1

DST Test Number: 2

