



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

H&C oil operating inc.  
 PO Box 86  
 Plainville Ks. 67663+0086  
 ATTN: Marc Downing

**10-6s-24w Graham**  
**Beckman Trust 10-1**  
 Job Ticket: 49370 **DST#: 2**  
 Test Start: 2012.11.06 @ 10:46:05

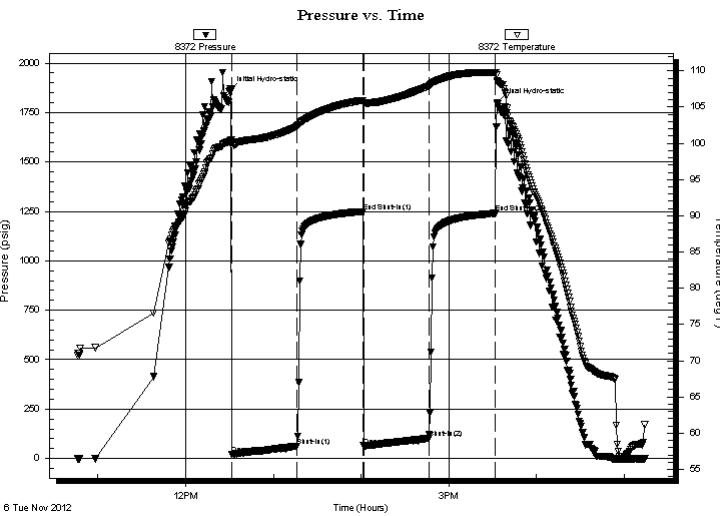
## GENERAL INFORMATION:

Formation: **LKC"E-F"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 12:31:40  
 Time Test Ended: 17:14:20  
 Interval: **3726.00 ft (KB) To 3772.00 ft (KB) (TVD)**  
 Total Depth: 3908.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Poor  
 Test Type: Conventional Straddle (Reset)  
 Tester: Andy Carreira  
 Unit No: 39  
 Reference Elevations: 2494.00 ft (KB)  
 2489.00 ft (CF)  
 KB to GR/CF: 5.00 ft

## Serial #: 8372 Outside

Press @ Run Depth: 103.45 psig @ 3730.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2012.11.06 End Date: 2012.11.06 Last Calib.: 2012.11.06  
 Start Time: 10:46:05 End Time: 17:14:20 Time On Btm: 2012.11.06 @ 12:30:00  
 Time Off Btm: 2012.11.06 @ 15:32:59

TEST COMMENT: IF:(45min) 1" blow in 4 min. 4" in 18 min. Built to 9" in 44 min.  
 IS:(45min) No Return  
 FF:(45min) 1" blow in 5 min. 4" in 19 min. Built to 9" in 45 min.  
 FS:(45min) No Return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1860.92	100.30	Initial Hydro-static
2	19.44	99.63	Open To Flow (1)
46	62.39	102.35	Shut-In(1)
92	1249.39	105.93	End Shut-In(1)
92	63.69	105.52	Open To Flow (2)
137	103.45	107.91	Shut-In(2)
182	1240.79	109.78	End Shut-In(2)
183	1800.90	108.67	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
150.00	MW w/oil spks in tool	2.10

\* Recovery from multiple tests

## Gas Rates

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



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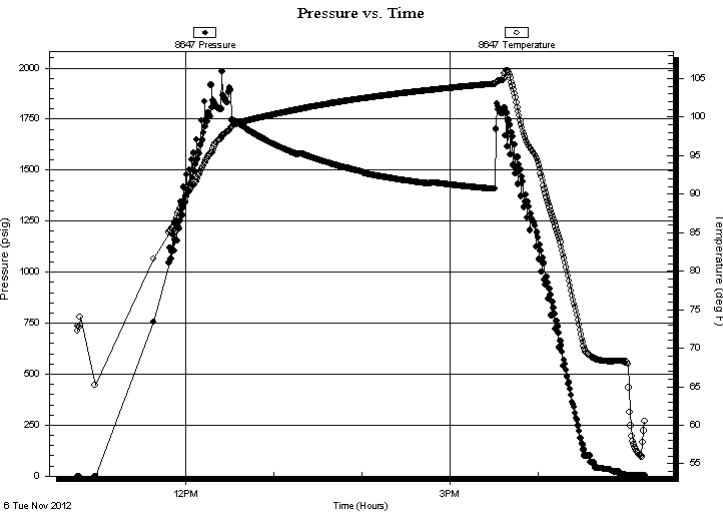
**10-6s-24w Graham**  
**Beckman Trust 10-1**  
Job Ticket: 49370 **DST#: 2**  
Test Start: 2012.11.06 @ 10:46:05

### GENERAL INFORMATION:

Formation: **LKC"E-F"**  
Deviated: **No Whipstock:** ft (KB) Test Type: Conventional Straddle (Reset)  
Time Tool Opened: 12:31:40 Tester: Andy Carreira  
Time Test Ended: 17:14:20 Unit No: 39  
**Interval: 3726.00 ft (KB) To 3772.00 ft (KB) (TVD)** Reference Elevations: 2494.00 ft (KB)  
Total Depth: 3908.00 ft (KB) (TVD) 2489.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 5.00 ft

**Serial #: 8647 Below (Straddle)**  
Press@RunDepth: psig @ 3782.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2012.11.06 End Date: 2012.11.06 Last Calib.: 2012.11.06  
Start Time: 10:46:05 End Time: 17:12:50 Time On Btm:  
Time Off Btm:

**TEST COMMENT:** IF:(45min) 1" blow in 4 min. 4" in 18 min. Built to 9" in 44 min.  
ISl:(45min) No Return  
FF:(45min) 1" blow in 5 min. 4" in 19 min. Built to 9" in 45 min.  
FSl:(45min) No Return



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
150.00	MW w/oil spks in tool	2.10

\* Recovery from multiple tests

### Gas Rates

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



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**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

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**10-6s-24w Graham**  
**Beckman Trust 10-1**  
Job Ticket: 49370      **DST#: 2**  
Test Start: 2012.11.06 @ 10:46:05

**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:	55000 ppm
Viscosity: 60.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.96 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1000.00 ppm			
Filter Cake: inches			

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
150.00	MW w/oil spks in tool	2.104

Total Length: 150.00 ft      Total Volume: 2.104 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

