



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Black Diamond Oil Inc  
 PO Box 641  
 Hays, KS 67601-0641  
 ATTN: Richard Bell

**23/4s/21w Norton KS**

**Veh #1**

Job Ticket: 48152

**DST#: 1**

Test Start: 2012.10.28 @ 09:00:00

## GENERAL INFORMATION:

Formation: **LKC "C"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 10:32:30  
 Time Test Ended: 14:51:30  
 Interval: **3367.00 ft (KB) To 3390.00 ft (KB) (TVD)**  
 Total Depth: 3390.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: James Winder  
 Unit No: 57  
 Reference Elevations: 2117.00 ft (KB)  
 2112.00 ft (CF)  
 KB to GR/CF: 5.00 ft

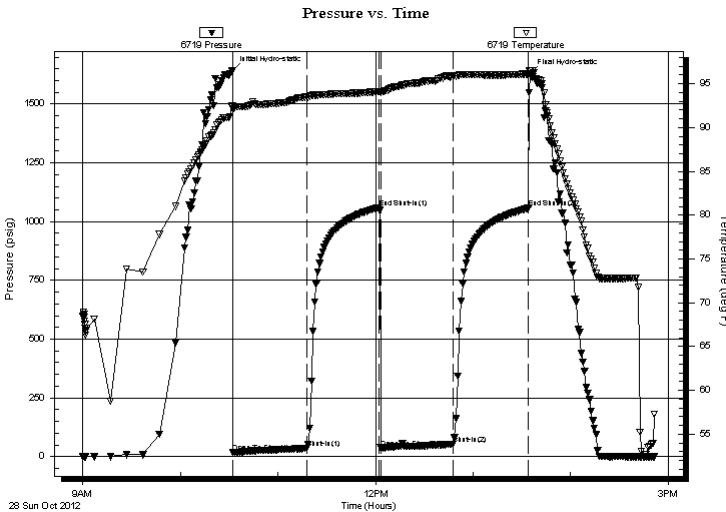
**Serial #: 6719**

**Inside**

Press @ Run Depth: 53.09 psig @ 3368.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2012.10.28 End Date: 2012.10.28 Last Calib.: 2012.10.28  
 Start Time: 09:00:05 End Time: 14:51:29 Time On Btm: 2012.10.28 @ 10:32:00  
 Time Off Btm: 2012.10.28 @ 13:35:00

**TEST COMMENT:** 45 - IF: Blow built to 2 1/4"  
 45 - IS: Bled off, No blow back  
 45 - FF: Blow started at 10 min., built to 1 1/4"  
 45 - FS: Bled off, No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1643.05	92.46	Initial Hydro-static
1	18.68	92.11	Open To Flow (1)
46	34.92	93.50	Shut-In(1)
90	1059.45	94.09	End Shut-In(1)
91	37.57	93.97	Open To Flow (2)
136	53.09	95.89	Shut-In(2)
182	1057.27	96.12	End Shut-In(2)
183	1629.80	96.53	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	WCM w/oil spots 73%m, 23%w, 3%g,	0.30
10.00	Mud w/oil spots 96%m, 2%o, 2%g	0.05

## Gas Rates

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





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**FLUID SUMMARY**

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**Veh #1**  
Job Ticket: 48152      **DST#: 1**  
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## Mud and Cushion Information

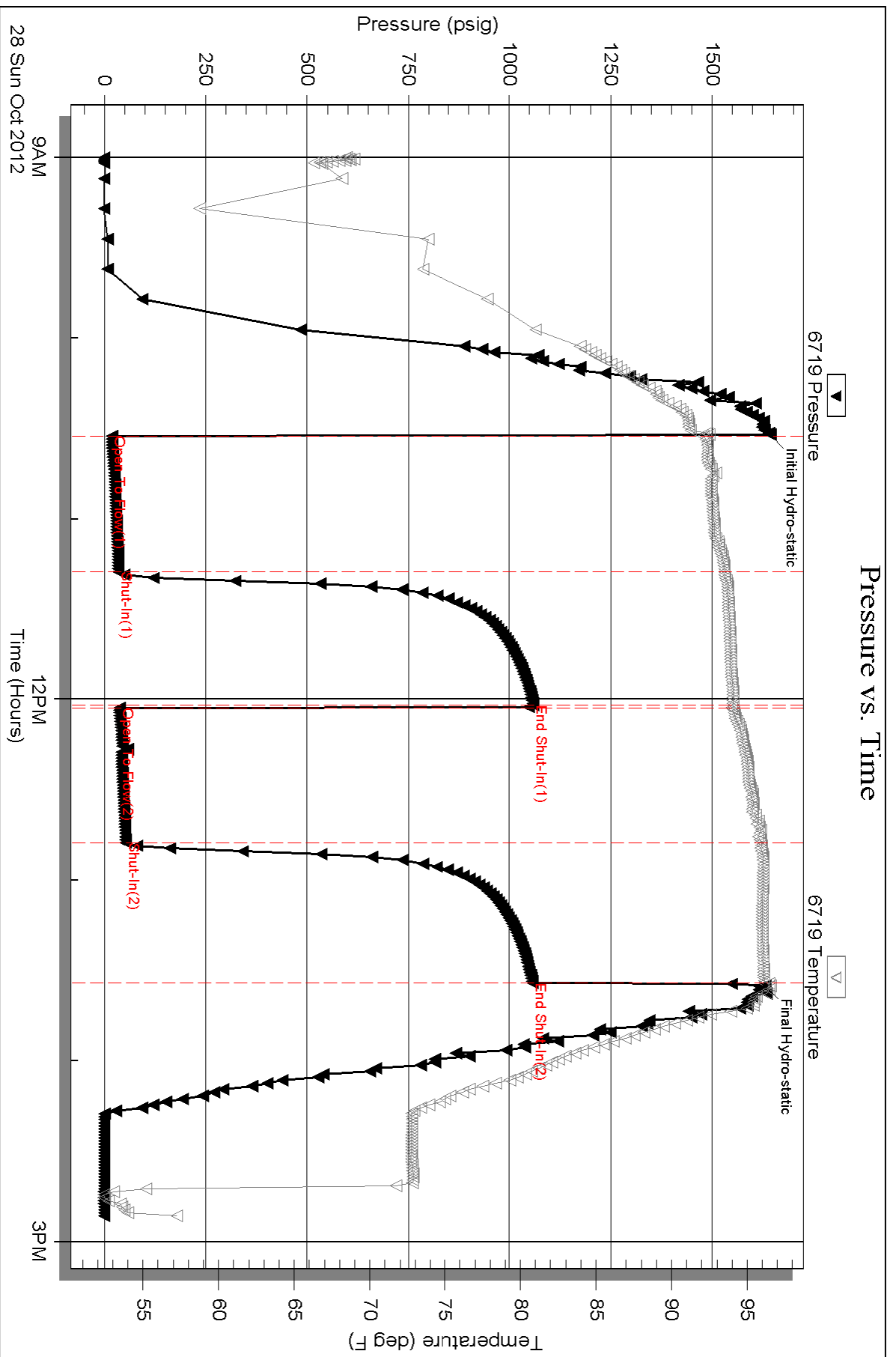
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	22000 ppm
Viscosity: 60.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.98 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1000.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	WCM w/oil spots 73% <i>m</i> , 23% <i>w</i> , 3% <i>g</i> , 1% <i>o</i>	0.295
10.00	Mud w/oil spots 96% <i>m</i> , 2% <i>o</i> , 2% <i>g</i>	0.049

Total Length: 70.00 ft      Total Volume: 0.344 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments: RW = .390 ohms @ 58.8 deg F  
Chlorideds = 22,000 ppm



Serial #: 8320

Outside Black Diamond Oil Inc

Veh #1

DST Test Number: 1

