



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Double D  
133 E. 12th  
Hays, Ks 67601  
ATTN: Al Downing

**24-13-20 Ellis, Ks**  
**Johnston #1**  
Job Ticket: 47425      **DST#: 1**  
Test Start: 2012.07.23 @ 21:30:41

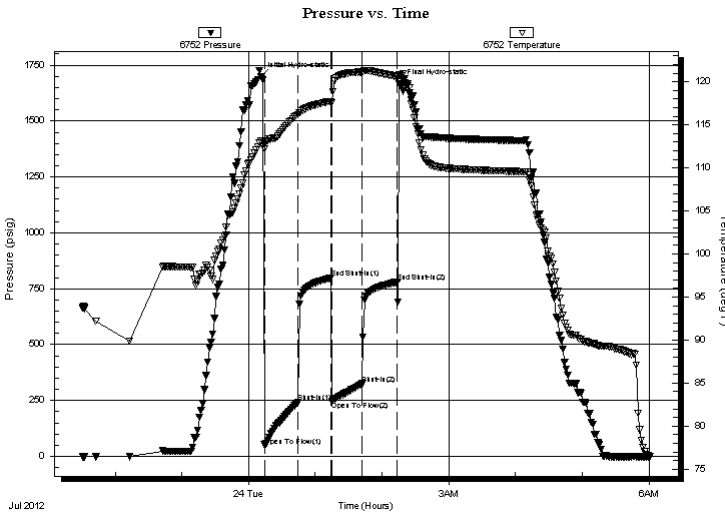
## GENERAL INFORMATION:

Formation: **LKC "C-D"**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 00:14:41  
Time Test Ended: 06:01:41  
Interval: **3448.00 ft (KB) To 3510.00 ft (KB) (TVD)**  
Total Depth: 3510.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Brian Fairbank  
Unit No: 41  
Reference Elevations: 2118.00 ft (KB)  
2113.00 ft (CF)  
KB to GR/CF: 5.00 ft

**Serial #: 6752      Inside**  
Press @ Run Depth: 324.32 psig @ 3454.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2012.07.23      End Date: 2012.07.24      Last Calib.: 2012.07.24  
Start Time: 21:30:42      End Time: 06:01:41      Time On Btm: 2012.07.24 @ 00:11:11  
Time Off Btm: 2012.07.24 @ 02:16:11

**TEST COMMENT:** IFP - BOB 6 min  
ISI - no blow back  
FFP - BOB 11 min  
FSI - 1/4" blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1699.02	113.10	Initial Hydro-static
4	46.72	112.98	Open To Flow (1)
33	240.50	116.20	Shut-In(1)
63	797.29	117.73	End Shut-In(1)
64	244.42	117.54	Open To Flow (2)
91	324.32	121.13	Shut-In(2)
123	779.72	120.62	End Shut-In(2)
125	1667.04	120.76	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
525.00	MW 95%W, 5%M	3.11
75.00	GW & OCM 10%G, 15%O, 15%W, 60%M	1.05
15.00	FREE OIL 95%O, 5%M	0.21
0.00	90' GIP	0.00

## 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: 33 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 69000 ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl	
Water Loss: 8.79 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 4000.00 ppm		
Filter Cake: inches		

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
525.00	MW 95%W, 5%M	3.110
75.00	GW & OCM 10%G, 15%O, 15%W, 60%M	1.052
15.00	FREE OIL 95%O, 5%M	0.210
0.00	90' GIP	0.000

Total Length: 615.00 ft      Total Volume: 4.372 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

Serial #: 6752

Inside

Double D

Johnston #1

DST Test Number: 1

# Pressure vs. Time

