



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Black Diamond Oil

18-4s-19w

Po Box 641
Hays Ks 67601

Zillinger A #1

Job Ticket: 041774

DST#: 3

ATTN: Jeff Lawler

Test Start: 2013.09.29 @ 21:27:13

GENERAL INFORMATION:

Formation: **LKC-D-F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:21:13

Time Test Ended: 04:28:13

Test Type: (Reset)

Tester: Jeff Brown

Unit No: 67

Interval: 3224.00 ft (KB) To 3264.00 ft (KB) (TVD)

Reference Elevations: 1998.00 ft (KB)

Total Depth: 3264.00 ft (KB) (TVD)

1993.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6625 Outside

Press @ Run Depth: 35.82 psig @ 3259.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.09.29

End Date:

2013.09.30

Last Calib.:

2013.09.30

Start Time:

21:27:14

End Time:

04:28:13

Time On Btm:

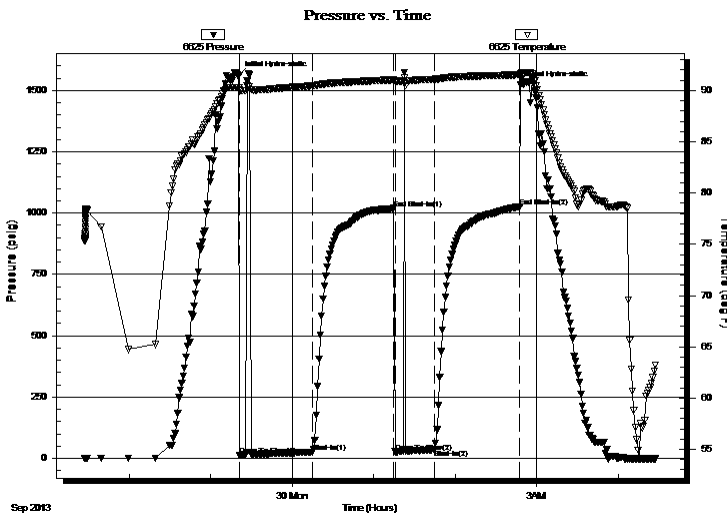
2013.09.29 @ 23:20:43

Time Off Btm:

2013.09.30 @ 02:48:13

TEST COMMENT: IFP=Weak blow built to 1/4 in
ISI=Dead no blow back
FFP=Dead flushed tool w eak surface blow
FSI=Dead no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1560.01	90.30	Initial Hydro-static
1	12.33	90.06	Open To Flow (1)
54	26.02	90.45	Shut-In(1)
114	1019.12	91.03	End Shut-In(1)
115	27.09	90.89	Open To Flow (2)
144	35.82	91.10	Shut-In(2)
207	1026.86	91.53	End Shut-In(2)
208	1521.20	91.63	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	Mud with oil spots	0.25

Gas Rates

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

* Recovery from multiple tests



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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: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.40 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 750.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
50.00	Mud with oil spots	0.246

Total Length: 50.00 ft Total Volume: 0.246 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

