



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Hertel Oil Co Inc

30-14s-19w Ellis KS

704 E 12th st
Hays KS, 67601

Allenbaugh #1

Job Ticket: 55359

DST#: 1

ATTN: Chris Neeley

Test Start: 2013.11.25 @ 02:39:00

GENERAL INFORMATION:

Formation: **LKC "I"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:03:45

Time Test Ended: 08:47:30

Test Type: Conventional Straddle (Initial)

Tester: Cody Bloedorn

Unit No: 53

Interval: 3590.00 ft (KB) To 3608.00 ft (KB) (TVD)

Reference Elevations: 2128.00 ft (KB)

Total Depth: 3833.00 ft (KB) (TVD)

2123.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8648 Outside

Press@RunDepth: 35.39 psig @ 3591.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.11.25 End Date: 2013.11.25

Last Calib.: 2013.11.25

Start Time: 02:39:05 End Time: 08:47:29

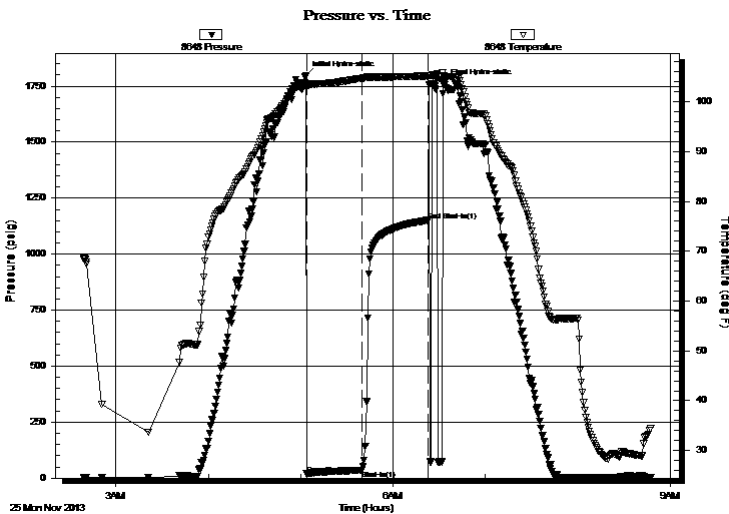
Time On Btm: 2013.11.25 @ 05:03:30

Time Off Btm: 2013.11.25 @ 06:32:45

TEST COMMENT: 45 - IF- 2 1/4" blow

45 - ISI- No return

FF- Opened tool, lost mud in hole, pulled tool, reset tool and got 1/4" blow . pulled tool after 5 minutes.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1795.70	103.26	Initial Hydro-static
1	18.91	102.81	Open To Flow (1)
37	35.39	104.71	Shut-In(1)
79	1151.28	105.18	End Shut-In(1)
90	1762.13	105.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
112.00	Mud, with spots of oil, 100%M	1.30

Gas Rates

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



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FLUID SUMMARY

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ATTN: Chris Neeley

Test Start: 2013.11.25 @ 02:39:00

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: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.00 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1600.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
112.00	Mud, w ith spots of oil, 100%M	1.298

Total Length: 112.00 ft Total Volume: 1.298 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

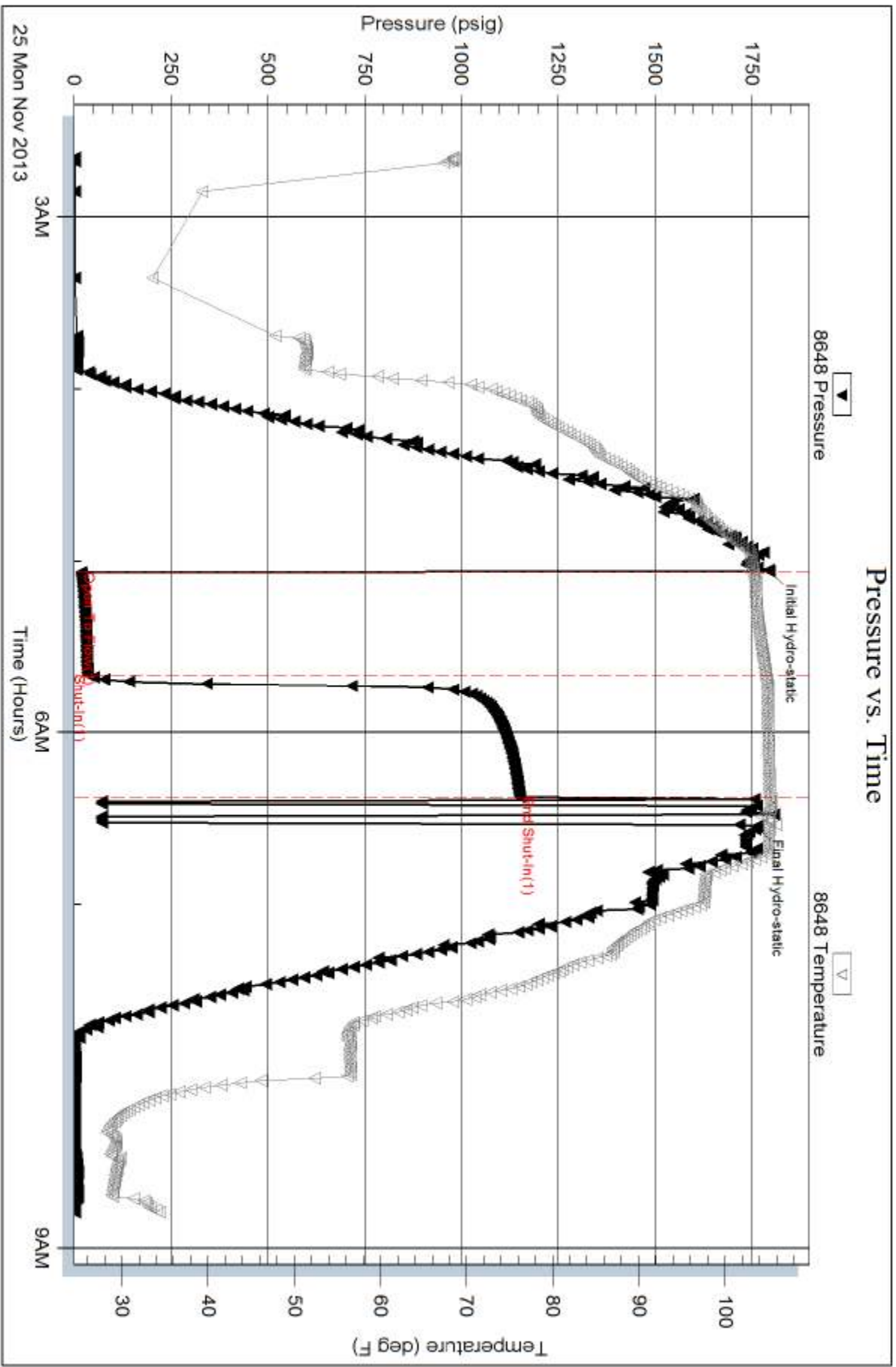
Recovery Comments:

Serial #: 8648

Outside Hentel Oil Co Inc

Allenbaugh #1

DST Test Number: 1



Tribble Testing, Inc

Ref. No: 55359

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