



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr
 1515 Wynkoop
 STE 700
 Denver, CO 80202
 ATTN: Chris Mitchell

Sec. 35-4s-24w Norton, KS

Steven #1-35

Job Ticket: 60692

DST#: 4

Test Start: 2014.11.26 @ 13:17:29

GENERAL INFORMATION:

Formation: **LKC D,E,F**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 15:33:19
 Tester: Tate Lang
 Time Test Ended: 20:55:59
 Unit No: 77
 Interval: **3560.00 ft (KB) To 3633.00 ft (KB) (TVD)**
 Reference Elevations: 2382.00 ft (KB)
 Total Depth: 3633.00 ft (KB) (TVD)
 2374.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 8.00 ft

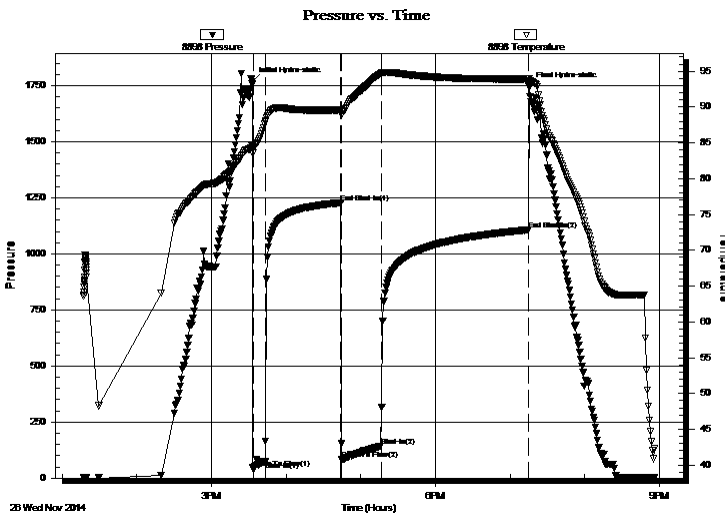
Serial #: 8898

Outside

Press @ Run Depth: 143.21 psig @ 3561.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.11.26 End Date: 2014.11.26 Last Calib.: 2014.11.26
 Start Time: 13:17:30 End Time: 20:55:59 Time On Btm: 2014.11.26 @ 15:33:09
 Time Off Btm: 2014.11.26 @ 19:15:08

TEST COMMENT: 10-Strong blow built to 10 in
 60-Dead no blow back
 30-B.O.B. in 20 mins
 120-Dead no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1769.83	84.61	Initial Hydro-static
1	42.13	83.53	Open To Flow (1)
11	73.30	87.97	Shut-In(1)
71	1228.46	89.61	End Shut-In(1)
72	83.54	89.40	Open To Flow (2)
103	143.21	94.64	Shut-In(2)
222	1106.97	93.89	End Shut-In(2)
222	1743.95	93.93	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	MCW 30%M 70%W w with oil spots	2.24
60.00	100%M	0.84
0.00	60 GIP	0.00

* Recovery from multiple tests

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:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

32000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
180.00	MCW 30%M 70%W with oil spots	2.243
60.00	100%M	0.842
0.00	60 GIP	0.000

Total Length: 240.00 ft Total Volume: 3.085 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

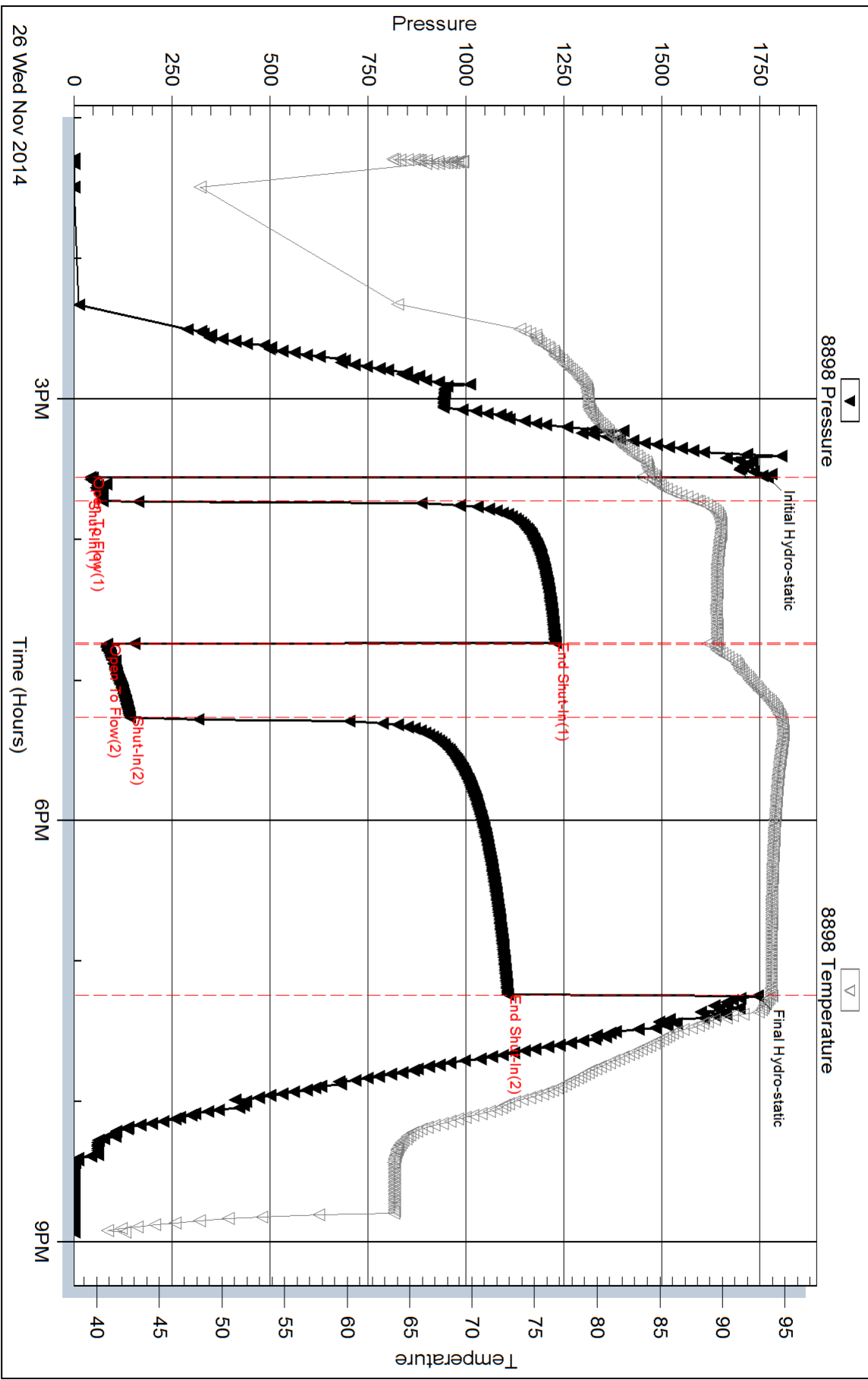
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .418 @ 36F = 32000

Pressure vs. Time



Serial #: 8897

Inside

Samuel Gary Jr

Steven #1-35

DST Test Number: 4

