



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr & Associates, Inc.

6/2s/36w Rawlins KS

1515 Wynkoop STE 700
Denver, CO 80202

Krueger Trust #1-6

ATTN: Clayton Camozzi

Job Ticket: 60061

DST#: 5

Test Start: 2014.08.22 @ 22:20:00

GENERAL INFORMATION:

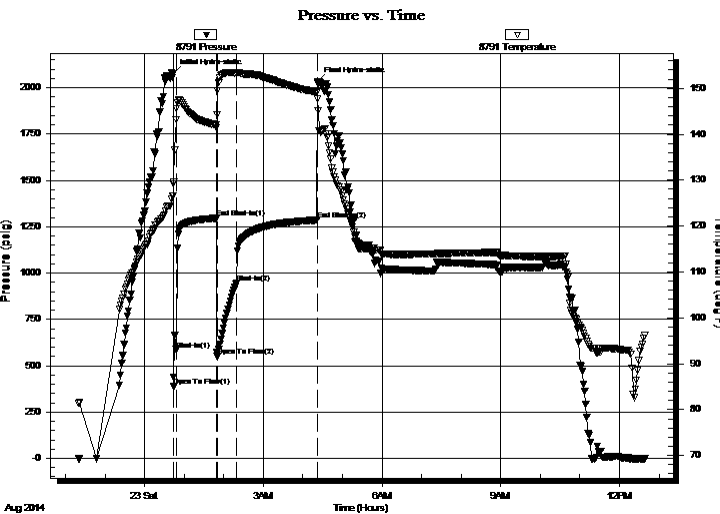
Formation: **LKC "G"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:44:30
 Time Test Ended: 12:38:45
 Interval: **4338.00 ft (KB) To 4387.00 ft (KB) (TVD)**
 Total Depth: 4387.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: James Winder
 Unit No: 57
 Reference Elevations: 3321.00 ft (KB)
 3316.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8791

Inside

Press @ Run Depth: 946.93 psig @ 4339.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.08.22 End Date: 2014.08.23 Last Calib.: 2014.08.23
 Start Time: 22:20:05 End Time: 12:38:45 Time On Btm: 2014.08.23 @ 00:43:30
 Time Off Btm: 2014.08.23 @ 04:22:30

TEST COMMENT: 5 - IF: BOB (11") blow at open, bled back for 4 min. to 2", blow built to BOB at 5 min.
 60 - IS: Blow back built to 9"
 30 - FF: Blow built to BOB in 1 min.
 120 - FS: Blow back built to BOB



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2075.02	126.64	Initial Hydro-static
1	387.41	129.61	Open To Flow (1)
6	586.98	145.65	Shut-In(1)
65	1295.85	142.02	End Shut-In(1)
67	549.63	144.33	Open To Flow (2)
96	946.93	153.33	Shut-In(2)
219	1286.38	149.16	End Shut-In(2)
219	2034.64	147.65	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	MWCO 50%o, 25%w, 15%m, 10%g	0.07
47.00	SMCO 95%o, 5%m	0.23
62.00	MO 52%o, 43%m, 5%g	0.30
2026.00	REV OUT smpl every 5 min.	27.85
0.00	5min - 25min SMCO 79%o, 16%g, 5%o	0.00
0.00	30 min. OMCW 48%w, 25%m, 22%o, 5%g	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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ATTN: Clayton Camozzi

Test Start: 2014.08.22 @ 22:20:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 69.00 sec/qt
Water Loss: 7.17 in³
Resistivity: ohm.m
Salinity: 700.00 ppm
Filter Cake: 2.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 28.8 deg API
Water Salinity: 50000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	MWCO 50%o, 25%w, 15%m, 10%g	0.074
47.00	SMCO 95%o, 5%m	0.231
62.00	MO 52%o, 43%m, 5%g	0.305
2026.00	REV OUT smpl every 5 min.	27.855
0.00	5min - 25min SMCGO 79%o, 16%g, 5%m	0.000
0.00	30 min. OMCW 48%w, 25%m, 22%o, 5%g	0.000
0.00	35 min. OMCW 71%w, 19%m, 10%o	0.000
236.00	CGO 79%o, 19%g, 2%m	3.310
0.00	GIP = 250'	0.000

Total Length: 2386.00 ft Total Volume: 31.775 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

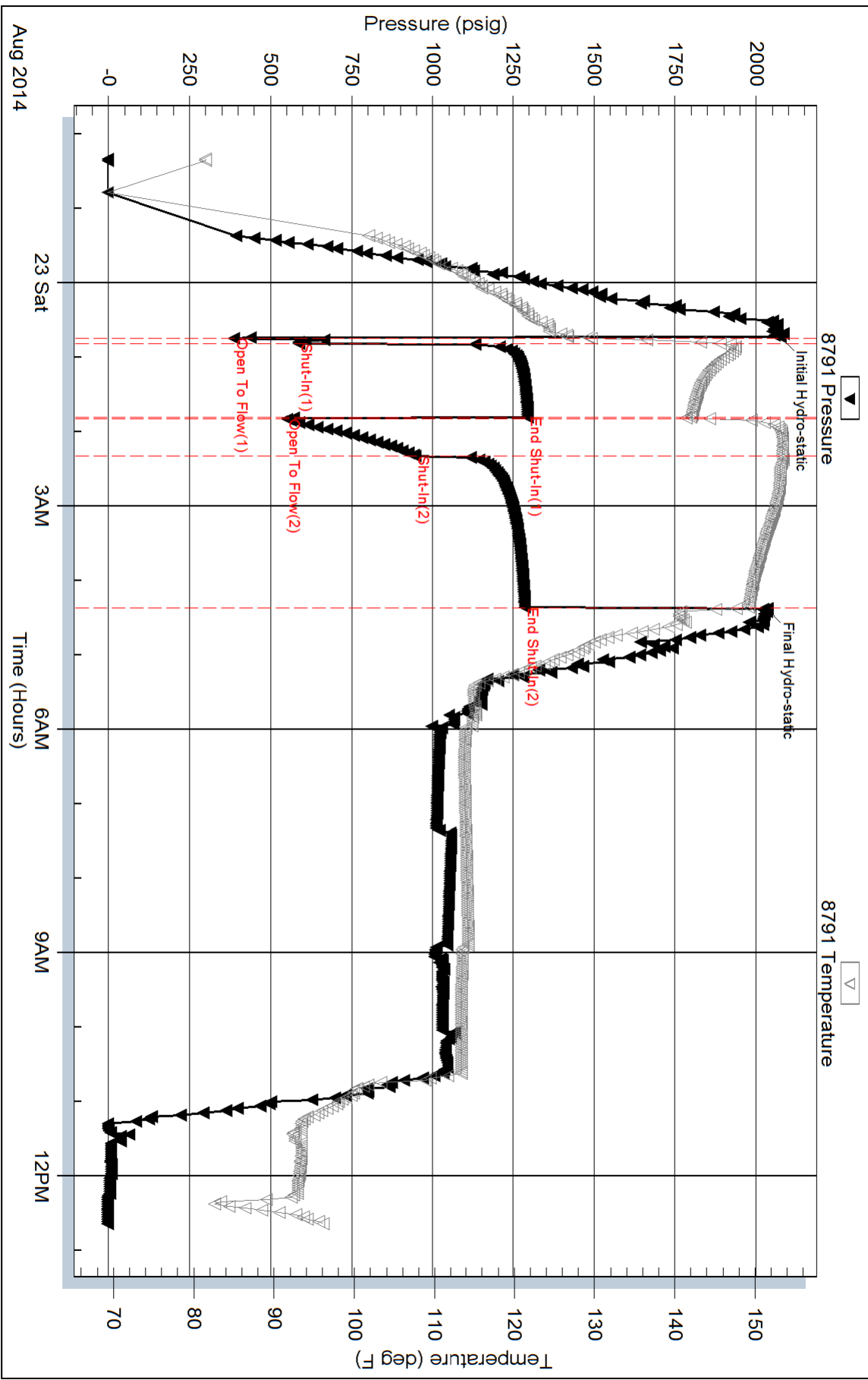
Recovery Comments: Gravity = 31 api @ 88 deg F Corrected Gravity = 28.8 api

Chlorides per mud eng. check 50,000 ppm

Sampler = 115 psi 1300 mL CO 96%o, 3%g, 1%m

may have been a small amount 100 mL or less that looked like it may have had water but I was

Pressure vs. Time



Serial #: 8366

Fluid

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Krueger Trust #1-6

DST Test Number: 5

