



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Samuel Gary Jr. and Associates, Inc.

35-14-15 Russell, Ks

1515 Wynkoop St. Ste 700
Denver, CO 80202

Herbert Kraft 1-35

ATTN: Chris Mitchell

Job Ticket: 49427

DST#: 1

Test Start: 2012.08.27 @ 13:23:13

GENERAL INFORMATION:

Formation: **LKC "A-D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:37:13

Time Test Ended: 20:09:43

Test Type: Conventional Bottom Hole (Initial)

Tester: Brian Fairbank

Unit No: 41

Interval: 3005.00 ft (KB) To 3083.00 ft (KB) (TVD)

Reference Elevations: 1827.00 ft (KB)

Total Depth: 3083.00 ft (KB) (TVD)

1817.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 6752 Inside

Press @ Run Depth: 57.25 psig @ 3075.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.27 End Date: 2012.08.27

Last Calib.: 2012.08.27

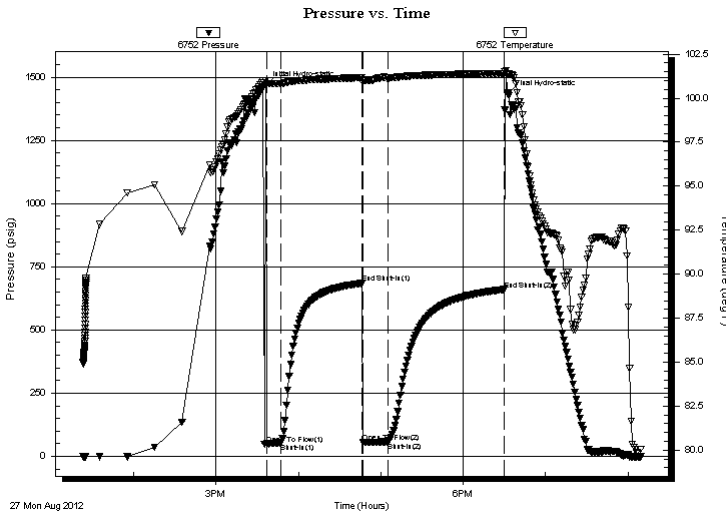
Start Time: 13:23:14 End Time: 20:09:43

Time On Btm: 2012.08.27 @ 15:36:13

Time Off Btm: 2012.08.27 @ 18:32:43

TEST COMMENT: 10 - IFP - sur blow throughout
60 - ISI - no blow back
20 - FFP - no blow
80 - FSI - no blow back

PRESSURE SUMMARY



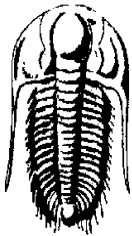
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1467.49	101.02	Initial Hydro-static
1	49.58	100.82	Open To Flow (1)
11	52.52	100.83	Shut-In(1)
70	684.26	101.17	End Shut-In(1)
71	54.12	100.88	Open To Flow (2)
89	57.25	101.14	Shut-In(2)
174	659.94	101.40	End Shut-In(2)
177	1432.47	101.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	DRL MUD 100%	0.21

Gas Rates

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



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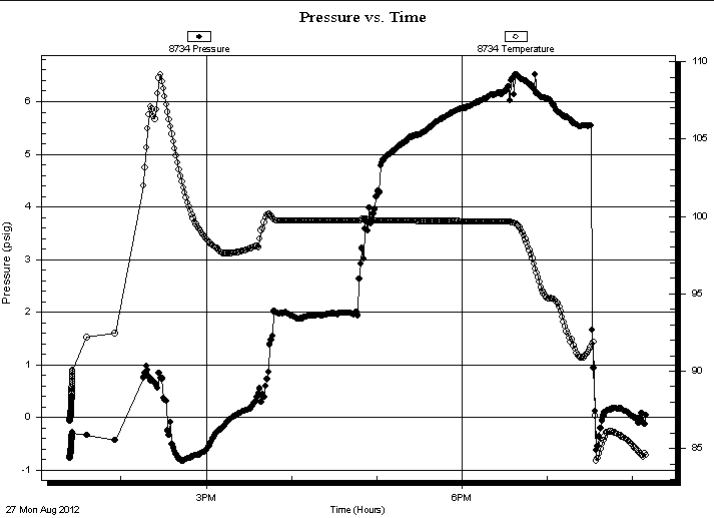
Formation: **LKC "A-D"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 15:37:13
 Tester: Brian Fairbank
 Time Test Ended: 20:09:43
 Unit No: 41
 Interval: **3005.00 ft (KB) To 3083.00 ft (KB) (TVD)**
 Reference Elevations: 1827.00 ft (KB)
 Total Depth: 3083.00 ft (KB) (TVD)
 1817.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Good
 KB to GR/CF: 10.00 ft

Serial #: 8734

Fluid

Press @ RunDepth: psig @ 2970.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.08.27 End Date: 2012.08.27 Last Calib.: 2012.08.27
 Start Time: 13:23:52 End Time: 20:10:21 Time On Btm:
 Time Off Btm:

TEST COMMENT: 10 - IFP - sur blow throughout
 60 - ISI - no blow back
 20 - FFP - no blow
 80 - FSI - no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
15.00	DRL MUD 100%	0.21

Gas Rates

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



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FLUID SUMMARY

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Job Ticket: 49427

DST#: 1

ATTN: Chris Mitchell

Test Start: 2012.08.27 @ 13:23:13

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: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2400.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	DRL MUD 100%	0.210

Total Length: 15.00 ft Total Volume: 0.210 bbl

Num Fluid Samples: 0

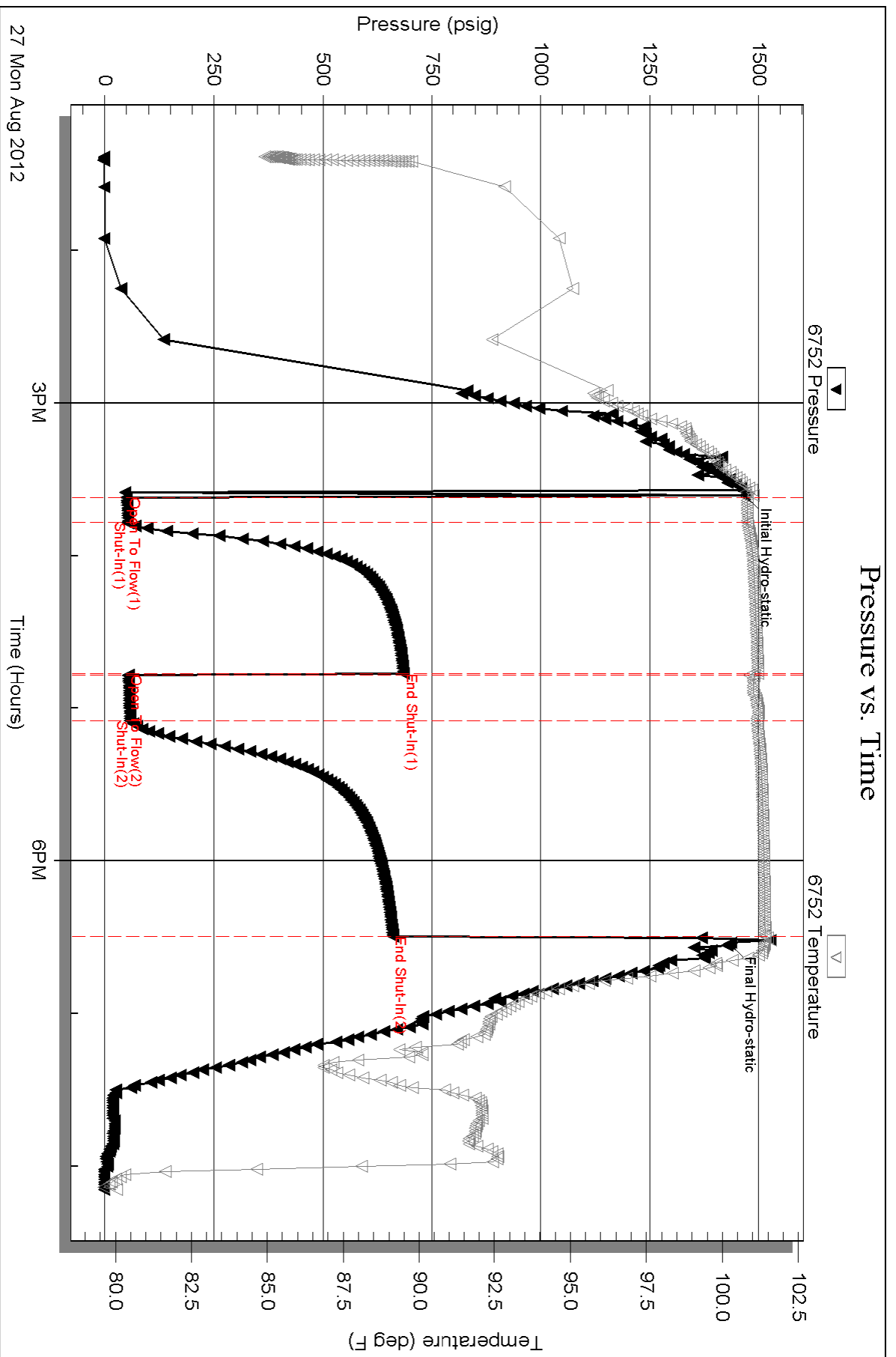
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: SAMPLER



Serial #: 8734

Fluid

Samuel Gary Jr. and Associates, Inc.

Herbert Kraft 1-35

DST Test Number: 1

