



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Samuel Gary Jr. and Associates, Inc.

Yarmer 1-26

1515 Wynkoop St. Ste 700
Denver, CO 80202

26-16-16 Rush, Ks

ATTN: Neil Sharp

Job Ticket: 43421

DST#: 2

Test Start: 2011.07.14 @ 22:47:12

GENERAL INFORMATION:

Formation: **LKC "H"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:53:11

Time Test Ended: 06:41:41

Test Type: Conventional Bottom Hole

Tester: Brian Fairbank

Unit No: 41

Interval: 3388.00 ft (KB) To 3418.00 ft (KB) (TVD)

Reference Elevations: 1978.00 ft (KB)

Total Depth: 3418.00 ft (KB) (TVD)

1968.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8734 Outside

Press @ Run Depth: 96.35 psig @ 3395.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.07.14

End Date:

2011.07.15

Last Calib.:

2011.07.15

Start Time: 22:47:12

End Time:

06:41:41

Time On Btm:

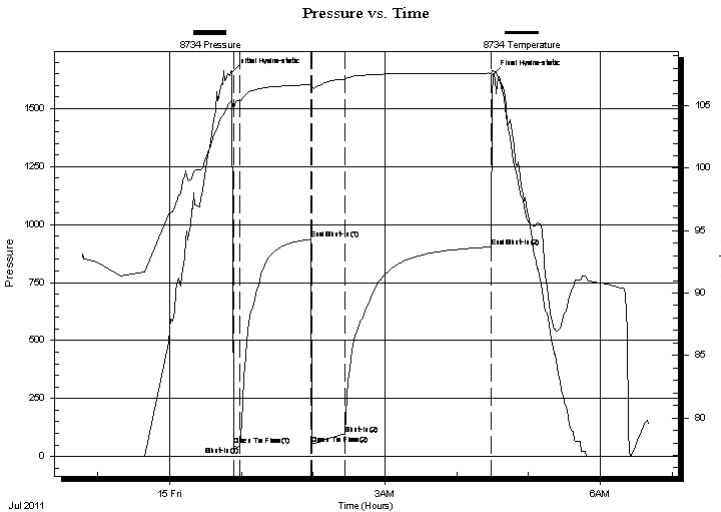
2011.07.15 @ 00:52:11

Time Off Btm:

2011.07.15 @ 04:30:41

TEST COMMENT: 5 - IFP - BOB 1 1/2 min
60 - ISI - no blow back
30 - FFP - BOB 1 min
120 - FSI - 9" blow back - died 35 min

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1657.35	105.38	Initial Hydro-static
1	46.22	104.75	Open To Flow (1)
6	44.49	105.38	Shut-In(1)
66	936.99	106.69	End Shut-In(1)
67	52.58	106.43	Open To Flow (2)
94	96.35	107.16	Shut-In(2)
217	903.29	107.62	End Shut-In(2)
219	1646.06	107.79	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	MW 50%W, 50%M	0.21
170.00	GMO 20%G, 50%O, 30%M	2.38
0.00	1270' GIP	0.00

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:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
15.00	MW 50%W, 50%M	0.210
170.00	GMO 20%G, 50%O, 30%M	2.385
0.00	1270' GIP	0.000

Total Length: 185.00 ft Total Volume: 2.595 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 2000 ml Gas, 1800 ml Oil, 100 ml Mud, 100 ml Water 550 lbs

