



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Samuel Gary Jr. and Associates, Inc.

**Clair 3-26**

1515 Wynkoop St. Ste 700  
Denver, CO 80202

**26-16-16 Rush, Ks**

Job Ticket: 43402

**DST#: 2**

ATTN: Neil Sharp

Test Start: 2011.06.05 @ 13:31:10

## GENERAL INFORMATION:

Formation: **LKC "E-G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:16:10

Time Test Ended: 20:55:10

Test Type: Conventional Bottom Hole

Tester: Brian Fairbank

Unit No: 41

**Interval: 3313.00 ft (KB) To 3366.00 ft (KB) (TVD)**

Reference Elevations: 1986.00 ft (KB)

Total Depth: 3366.00 ft (KB) (TVD)

1976.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

**Serial #: 8734 Outside**

Press @ Run Depth: 74.05 psig @ 3316.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.06.05

End Date:

2011.06.05

Last Calib.:

2011.06.05

Start Time: 13:31:11

End Time:

20:55:10

Time On Btm:

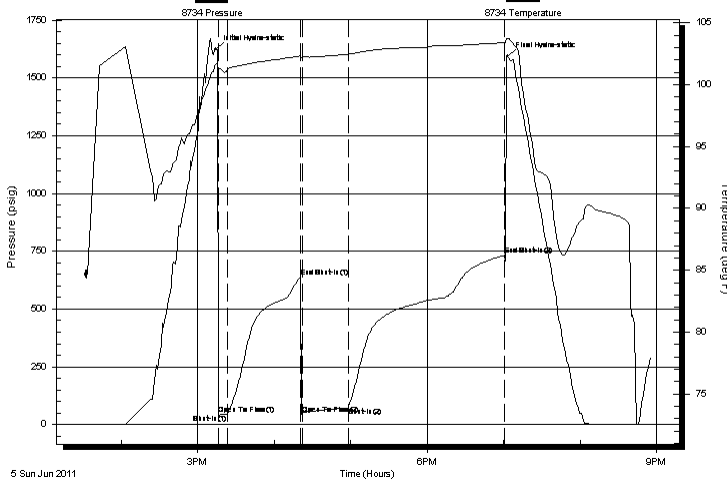
2011.06.05 @ 15:14:10

Time Off Btm:

2011.06.05 @ 19:03:10

**TEST COMMENT:** 5 - IFP - BOB 3 min  
60 - ISI - no blow back  
40 - FFP - BOB open  
120 - FSI - 1 1/2" blow back - died 19 min

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1623.74	101.61	Initial Hydro-static
2	46.10	101.23	Open To Flow (1)
9	45.91	101.18	Shut-In(1)
67	639.27	102.33	End Shut-In(1)
68	45.13	102.21	Open To Flow (2)
104	74.05	102.45	Shut-In(2)
227	732.21	103.39	End Shut-In(2)
229	1592.60	103.69	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
45.00	GMO 45%G, 30%O, 25%M	0.63
45.00	GHOCM 5%G, 30%O, 65%M	0.63
15.00	FREE OIL 95%O, 5%M	0.21
0.00	1220' GIP	0.00

## Gas Rates

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



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Tester: Brian Fairbank

Unit No: 41

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Reference Elevations: 1986.00 ft (KB)

Total Depth: 3366.00 ft (KB) (TVD)

1976.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

**Serial #: 8365**

**Fluid**

Press @ Run Depth: psig @ 3278.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.06.05

End Date:

2011.06.05

Last Calib.:

2011.06.05

Start Time: 13:31:46

End Time:

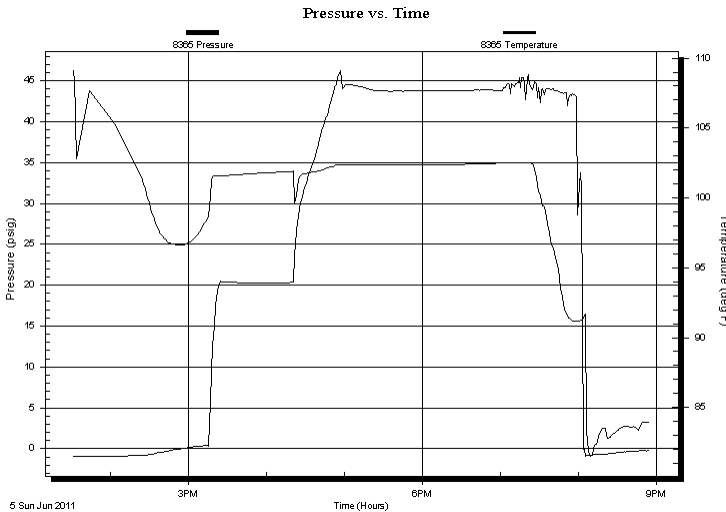
20:54:45

Time On Btm:

Time Off Btm:

**TEST COMMENT:** 5 - IFP - BOB 3 min  
60 - ISI - no blow back  
40 - FFP - BOB open  
120 - FSI - 1 1/2" blow back - died 19 min

## PRESSURE SUMMARY



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

## Recovery

Length (ft)	Description	Volume (bbl)
45.00	GMO 45%G, 30%O, 25%M	0.63
45.00	GHOCM 5%G, 30%O, 65%M	0.63
15.00	FREE OIL 95%O, 5%M	0.21
0.00	1220' 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: 37 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 60.00 sec/qt	Cushion Volume: bbl	
Water Loss: 8.78 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 5900.00 ppm		
Filter Cake: inches		

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
45.00	GMO 45%G, 30%O, 25%M	0.631
45.00	GHOCM 5%G, 30%O, 65%M	0.631
15.00	FREE OIL 95%O, 5%M	0.210
0.00	1220' GIP	0.000

Total Length: 105.00 ft      Total Volume: 1.472 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments: 2500 ml GAS, 975 ml OIL, 525 ml MUD, 875 lbs

