



DRILL STEM TEST REPORT

Prepared For: **Samuel Gary Jr. and Associates, Inc.**

1515 Wynkoop St. Ste 700
Denver, CO 80202

ATTN: Claton Camozzi

15-16-16 Rush, Ks

Scheuerman-Hopkins et al 1-15

Start Date: 2011.03.25 @ 00:00:00

End Date:

Job Ticket #: 44156 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



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TESTING, INC.**

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Job Ticket: 44156

DST#: 1

ATTN: Claton Camozzi

Test Start: 2011.03.25 @ 00:00:00

GENERAL INFORMATION:

Formation: **LKC "C-D"**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened:

Time Test Ended:

Test Type: **Conventional Bottom Hole**

Tester: **Brian Fairbank**

Unit No: **41**

Interval: 3253.00 ft (KB) To 3283.00 ft (KB) (TVD)

Reference Elevations: **1943.00 ft (KB)**

Total Depth: **3283.00 ft (KB) (TVD)**

1935.00 ft (CF)

Hole Diameter: **7.88 inches** Hole Condition: **Good**

KB to GR/CF: **8.00 ft**

Serial #: 8734

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

Capacity: **8000.00 psig**

Start Date: **2011.07.29**

End Date:

2011.07.29

Last Calib.:

2011.07.29

Start Time: **19:10:28**

End Time:

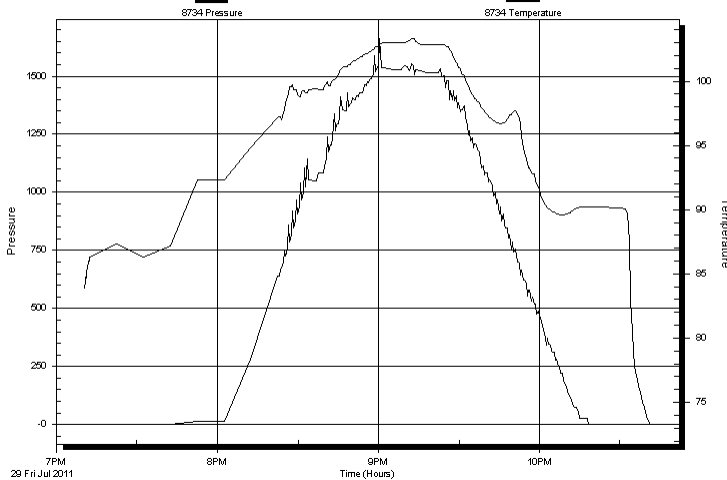
22:41:27

Time On Btm:

Time Off Btm:

TEST COMMENT: - IFP - hit bridge 15' off bottom
- ISI - packer failure
- FFP -
- FSI -

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)

Gas Rates

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



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Time Test Ended:

Test Type: Conventional Bottom Hole

Tester: Brian Fairbank

Unit No: 41

Interval: 3253.00 ft (KB) To 3283.00 ft (KB) (TVD)

Reference Elevations: 1943.00 ft (KB)

Total Depth: 3283.00 ft (KB) (TVD)

1935.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8365

Press @ Run Depth: psig @ ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.07.29

End Date: 2011.07.29

Last Calib.: 2011.07.29

Start Time: 19:10:23

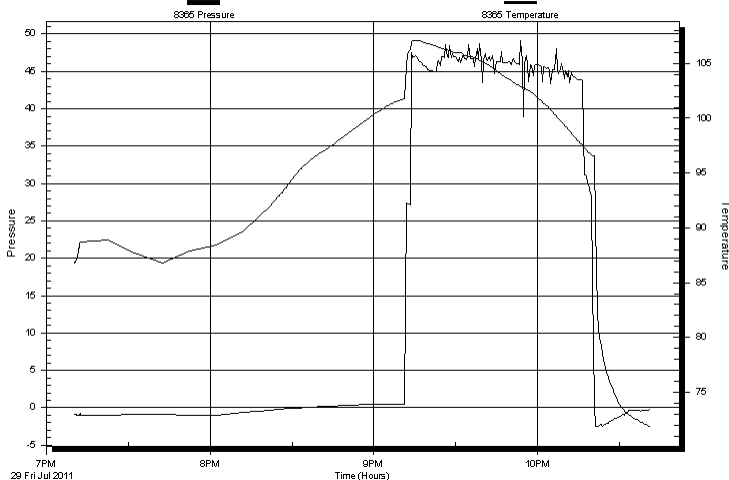
End Time: 22:41:22

Time On Btm:

Time Off Btm:

TEST COMMENT: - IFP - hit bridge 15' off bottom
- ISI - packer failure
- FFP -
- FSI -

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)

Gas Rates

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



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Job Ticket: 44156

DST#: 1

ATTN: Claton Camozzi

Test Start: 2011.03.25 @ 00:00:00

GENERAL INFORMATION:

Formation: **LKC "C-D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Time Test Ended:

Test Type: Conventional Bottom Hole

Tester: Brian Fairbank

Unit No: 41

Interval: **3253.00 ft (KB) To 3283.00 ft (KB) (TVD)**

Reference Elevations: 1943.00 ft (KB)

Total Depth: 3283.00 ft (KB) (TVD)

1935.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8372

Press @ RunDepth: psig @ ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.07.29 End Date: 2011.07.29

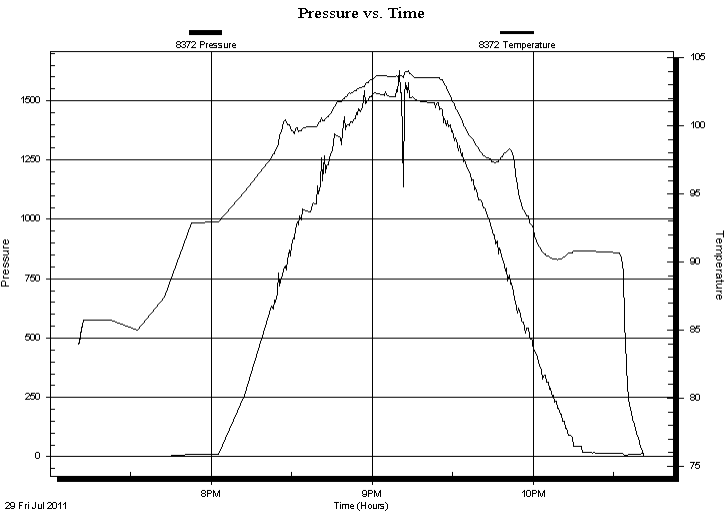
Last Calib.: 2011.07.29

Start Time: 19:10:36 End Time: 22:41:35

Time On Btm:

Time Off Btm:

TEST COMMENT: - IFP - hit bridge 15' off bottom
- ISI - packer failure
- FFP -
- FSI -



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)

Gas Rates

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



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TOOL DIAGRAM

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Denver, CO 80202

15-16-16 Rush, Ks

Job Ticket: 44156

DST#: 1

ATTN: Claton Camozzi

Test Start: 2011.03.25 @ 00:00:00

Tool Information

Drill Pipe:	Length: 3220.00 ft	Diameter: 3.80 inches	Volume: 45.17 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: lb
			<u>Total Volume: 45.32 bbl</u>	Tool Chased: ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial lb
Depth to Top Packer:	3253.00 ft			Final lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	64.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Recorder	0.00	8365	Fluid	3219.00	
Blank Spacing	5.00			3224.00	
Shut In Tool	5.00			3229.00	
Sampler	2.00			3231.00	
Hydraulic tool	5.00			3236.00	
Jars	5.00			3241.00	
Safety Joint	2.00			3243.00	
Packer	5.00			3248.00	34.00 Bottom Of Top Packer
Packer	5.00			3253.00	
Stubb	1.00			3254.00	
Perforations	1.00			3255.00	
Recorder	0.00	8372	Inside	3255.00	
Recorder	0.00	8734	Outside	3255.00	
Perforations	25.00			3280.00	
Bullnose	3.00			3283.00	30.00 Bottom Packers & Anchor

Total Tool Length: 64.00



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FLUID SUMMARY

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Test Start: 2011.03.25 @ 00:00:00

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: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6300.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl

Total Length: ft Total Volume: bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

