

DRILL STEM TEST REPORT

Prepared For: **Samuel Gary Jr & Assoc Inc**

1515 Wynkoop Ste700
Denver CO 80202

ATTN: Chris Mitchell

Dumler-Kraft etal #1

29-15s-15w Russell,KS

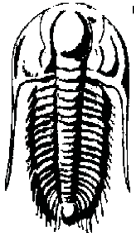
Start Date: 2012.09.22 @ 21:00:10

End Date: 2012.09.23 @ 04:50:34

Job Ticket #: 48685 DST #: 1

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

Printed: 2012.09.27 @ 13:17:11



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Samuel Gary Jr & Assoc Inc

29-15s-15w Russell,KS

1515 Wynkoop Ste700
Denver CO 80202

Dumler-Kraft etal #1

ATTN: Chris Mitchell

Job Ticket: 48685

DST#: 1

Test Start: 2012.09.22 @ 21:00:10

GENERAL INFORMATION:

Formation: **LKC C-D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:10:05

Time Test Ended: 04:50:34

Test Type: Conventional Bottom Hole (Initial)

Tester: Ray Schwager

Unit No: 42

Interval: 3198.00 ft (KB) To 3228.00 ft (KB) (TVD)

Reference Elevations: 1919.00 ft (KB)

Total Depth: 3228.00 ft (KB) (TVD)

1909.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8369

Inside

Press@RunDepth: 16.69 psig @ 3199.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.09.22

End Date:

2012.09.23

Last Calib.:

2012.09.23

Start Time: 21:00:10

End Time:

04:50:34

Time On Btm:

2012.09.22 @ 23:05:35

Time Off Btm:

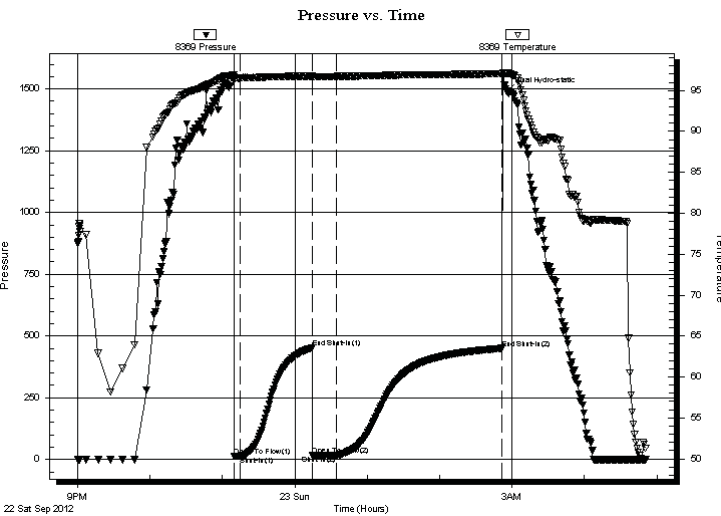
2012.09.23 @ 02:56:04

TEST COMMENT: 5-IFP-very w k surface bl

60-ISIP-no bl

20-FFP-no bl

135-FSIP-no bl



PRESSURE SUMMARY

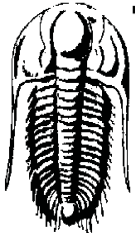
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1504.38	96.80	Initial Hydro-static
5	13.55	96.59	Open To Flow (1)
10	14.51	96.52	Shut-In(1)
69	452.26	96.76	End Shut-In(1)
69	16.45	96.57	Open To Flow (2)
89	16.69	96.72	Shut-In(2)
226	450.06	97.02	End Shut-In(2)
231	1488.52	97.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud w/show of oil	0.03

Gas Rates

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



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ATTN: Chris Mitchell

Job Ticket: 48685

DST#: 1

Test Start: 2012.09.22 @ 21:00:10

GENERAL INFORMATION:

Formation: **LKC C-D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:10:05

Time Test Ended: 04:50:34

Test Type: Conventional Bottom Hole (Initial)

Tester: Ray Schwager

Unit No: 42

Interval: 3198.00 ft (KB) To 3228.00 ft (KB) (TVD)

Reference Elevations: 1919.00 ft (KB)

Total Depth: 3228.00 ft (KB) (TVD)

1909.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8700 Outside

Press@RunDepth: psig @ 3199.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.09.22

End Date:

2012.09.23

Last Calib.:

2012.09.23

Start Time: 21:05:40

End Time:

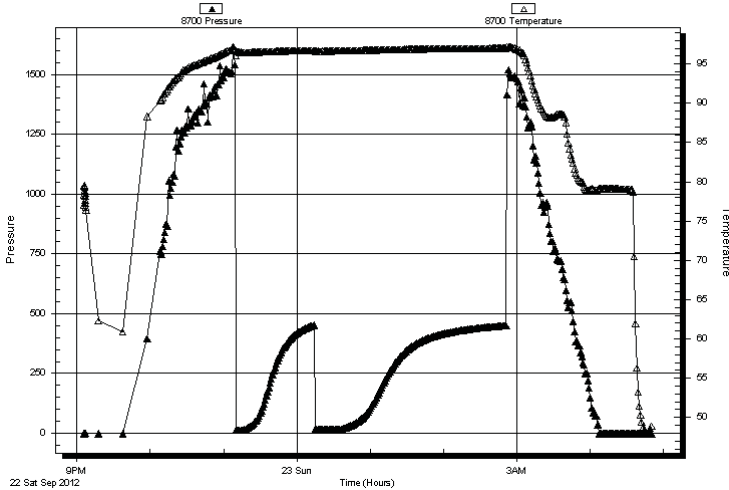
04:50:04

Time On Btm:

Time Off Btm:

TEST COMMENT: 5-IFP-very w k surface bl
60-ISIP-no bl
20-FFP-no bl
135-FSIP-no bl

Pressure vs. Time



PRESSURE SUMMARY

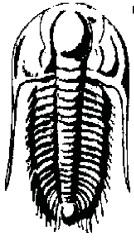
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
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Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud w/show of oil	0.03

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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29-15s-15w Russell, KS

1515 Wynkoop Ste700
Denver CO 80202

Dumler-Kraft etal #1

ATTN: Chris Mitchell

Job Ticket: 48685

DST#: 1

Test Start: 2012.09.22 @ 21:00:10

GENERAL INFORMATION:

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Time Tool Opened: 23:10:05

Time Test Ended: 04:50:34

Test Type: Conventional Bottom Hole (Initial)

Tester: Ray Schwager

Unit No: 42

Interval: **3198.00 ft (KB) To 3228.00 ft (KB) (TVD)**

Reference Elevations: 1919.00 ft (KB)

Total Depth: 3228.00 ft (KB) (TVD)

1909.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8374 Fluid

Press@RunDepth: psig @ 3163.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.09.22

End Date:

2012.09.23

Last Calib.:

2012.09.23

Start Time: 21:00:49

End Time:

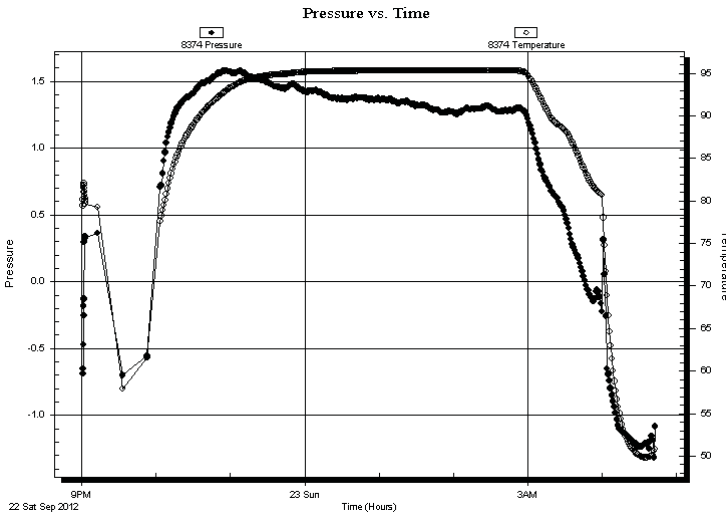
04:43:43

Time On Btm:

Time Off Btm:

TEST COMMENT: 5-IFP-very w k surface bl
60-ISIP-no bl
20-FFP-no bl
135-FSIP-no bl

PRESSURE SUMMARY



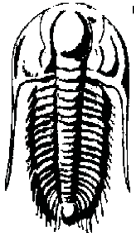
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud w /show of oil	0.03

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary Jr & Assoc Inc

29-15s-15w Russell,KS

1515 Wynkoop Ste700
Denver CO 80202

Dumler-Kraft etal #1

Job Ticket: 48685

DST#: 1

ATTN: Chris Mitchell

Test Start: 2012.09.22 @ 21:00:10

Tool Information

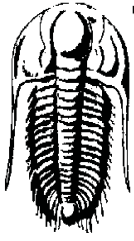
Drill Pipe:	Length: 3188.00 ft	Diameter: 3.80 inches	Volume: 44.72 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 44.72 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3198.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	65.00 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	8374	Fluid	3163.00	
Blank Spacing	5.00			3168.00	
Change Over Sub	1.00			3169.00	
Shut In Tool	5.00			3174.00	
Sampler	2.00			3176.00	
Hydraulic tool	5.00			3181.00	
Jars	5.00			3186.00	
Safety Joint	2.00			3188.00	
Packer	5.00			3193.00	35.00 Bottom Of Top Packer
Packer	5.00			3198.00	
Stubb	1.00			3199.00	
Recorder	0.00	8369	Inside	3199.00	
Recorder	0.00	8700	Outside	3199.00	
Perforations	26.00			3225.00	
Bullnose	3.00			3228.00	30.00 Bottom Packers & Anchor

Total Tool Length: 65.00



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FLUID SUMMARY

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Denver CO 80202

Dumler-Kraft etal #1

Job Ticket: 48685

DST#: 1

ATTN: Chris Mitchell

Test Start: 2012.09.22 @ 21:00:10

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: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.37 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	Mud w/show of oil	0.028

Total Length: 2.00 ft Total Volume: 0.028 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler Data: 60PSI 1500ML Mud trace of oil

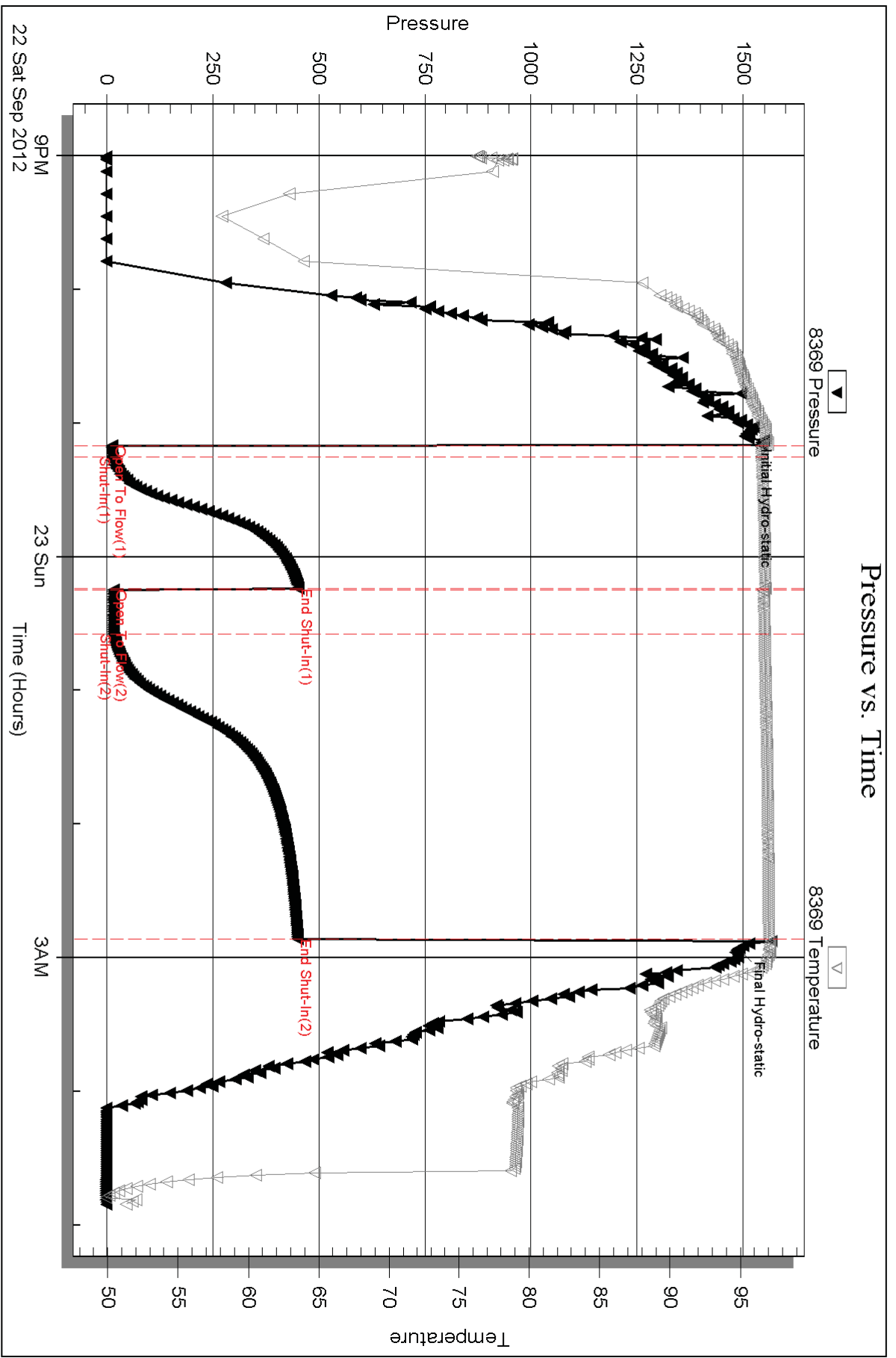
Serial #: 8369

Inside

Samuel Gary Jr & Assoc Inc

Dunker-Kraft etal #1

DST Test Number: 1



Serial #: 8700

Outside Samuel Gary Jr & Assoc Inc

Dunler-Kraft etal #1

DST Test Number: 1

