

15-009-25256

1-18s-12w

IND



**TRILOBITE  
TESTING, INC.**

### DRILL STEM TEST REPORT

Prepared For: **Samuel Gary Jr. & Associates**

1560 Broadway  
Suite 2100  
Denver, CO 80202

ATTN: Clayton Camozzi

**1 18 12 Barton KS**

**Liebl Et Al #2-1**

Start Date: 2008.09.30 @ 15:39:04

End Date: 2008.09.30 @ 20:54:34

Job Ticket #: 34276                      DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Samuel Gary Jr. & Associates

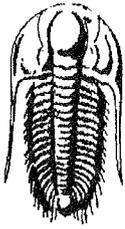
Liebl Et Al #2-1

1 18 12 Barton KS

DST # 1

LKC

2008.09.30



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates

**Liebl Et Al #2-1**

1560 Broadway  
Suite 2100  
Denver, CO 80202  
ATTN: Clayton Camozzi

**1 18 12 Barton KS**

Job Ticket: 34276

DST#: 1

Test Start: 2008.09.30 @ 15:39:04

## GENERAL INFORMATION:

Formation: **LKC**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:03:34

Time Test Ended: 20:54:34

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 32

Interval: **3260.00 ft (KB) To 3314.00 ft (KB) (TVD)**

Total Depth: 3314.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 1847.00 ft (KB)

1839.00 ft (CF)

KB to GR/CF: 8.00 ft

**Serial #: 6755**

**Inside**

Press@RunDepth: 36.14 psig @ 3264.00 ft (KB)

Start Date: 2008.09.30

End Date:

2008.09.30

Start Time: 15:39:06

End Time:

20:54:34

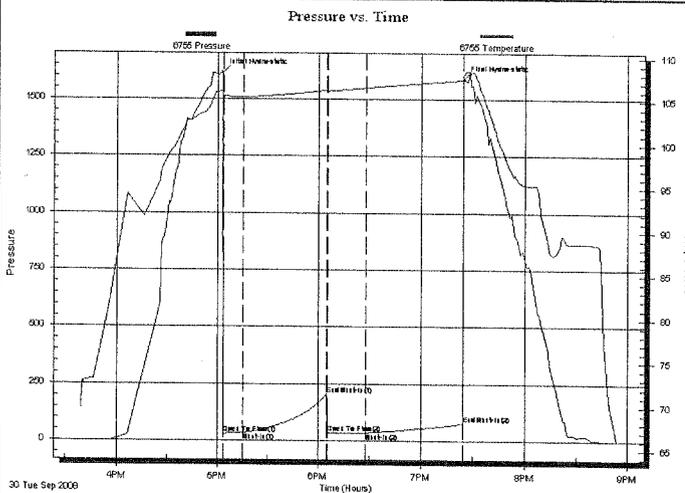
Capacity: 7000.00 psig

Last Calib.: 2008.09.30

Time On Btm: 2008.09.30 @ 17:03:04

Time Off Btm: 2008.09.30 @ 19:24:34

TEST COMMENT: IFP-Very Weak Surface Blow  
ISI-Dead  
FFP-Dead  
FSI-Dead



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1613.47	106.17	Initial Hydro-static
1	32.67	105.10	Open To Flow (1)
12	33.69	105.47	Shut-In(1)
62	205.51	106.25	End Shut-In(1)
63	35.09	106.15	Open To Flow (2)
85	36.14	106.52	Shut-In(2)
141	76.58	107.43	End Shut-In(2)
142	1586.00	107.98	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (tbb)
5.00	Mud	0.07

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Samuel Gary Jr. & Associates

**Liebl Et Al #2-1**

1560 Broadway  
Suite 2100  
Denver, CO 80202  
ATTN: Clayton Camozzi

**1 18 12 Barton KS**  
Job Ticket: 34276      **DST#: 1**  
Test Start: 2008.09.30 @ 15:39:04

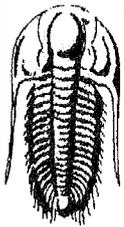
### Tool Information

Drill Pipe:	Length: 3256.00 ft	Diameter: 3.80 inches	Volume: 45.67 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 40000.00 lb
			<b>Total Volume: 45.67 bbl</b>	Tool Chased: 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3260.00 ft			Final 38000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	54.00 ft			
Tool Length:	82.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

### Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3233.00	
Shut In Tool	5.00			3238.00	
Hydraulic tool	5.00			3243.00	
Jars	5.00			3248.00	
Safety Joint	2.00			3250.00	
Packer	5.00			3255.00	28.00      Bottom Of Top Packer
Packer	5.00			3260.00	
Stubb	1.00			3261.00	
Perforations	2.00			3263.00	
Recorder	0.00	8360	Inside	3263.00	
Change Over Sub	1.00			3264.00	
Recorder	0.00	6755	Inside	3264.00	
Blank Spacing	31.00			3295.00	
Change Over Sub	1.00			3296.00	
Perforations	15.00			3311.00	
Bullnose	3.00			3314.00	54.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>82.00</b>				



**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Samuel Gary Jr. & Associates

**Liebl Et Al #2-1**

1560 Broadway  
Suite 2100  
Denver, CO 80202  
ATTN: Clayton Camozzi

**1 18 12 Barton KS**

Job Ticket: 34276

**DST#: 1**

Test Start: 2008.09.30 @ 15:39:04

## Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: lb/gal

Viscosity: sec/qt

Water Loss: in<sup>3</sup>

Resistivity: ohm.m

Salinity: ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

deg API

Water Salinity: ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud	0.070

Total Length: 5.00 ft      Total Volume: 0.070 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6755

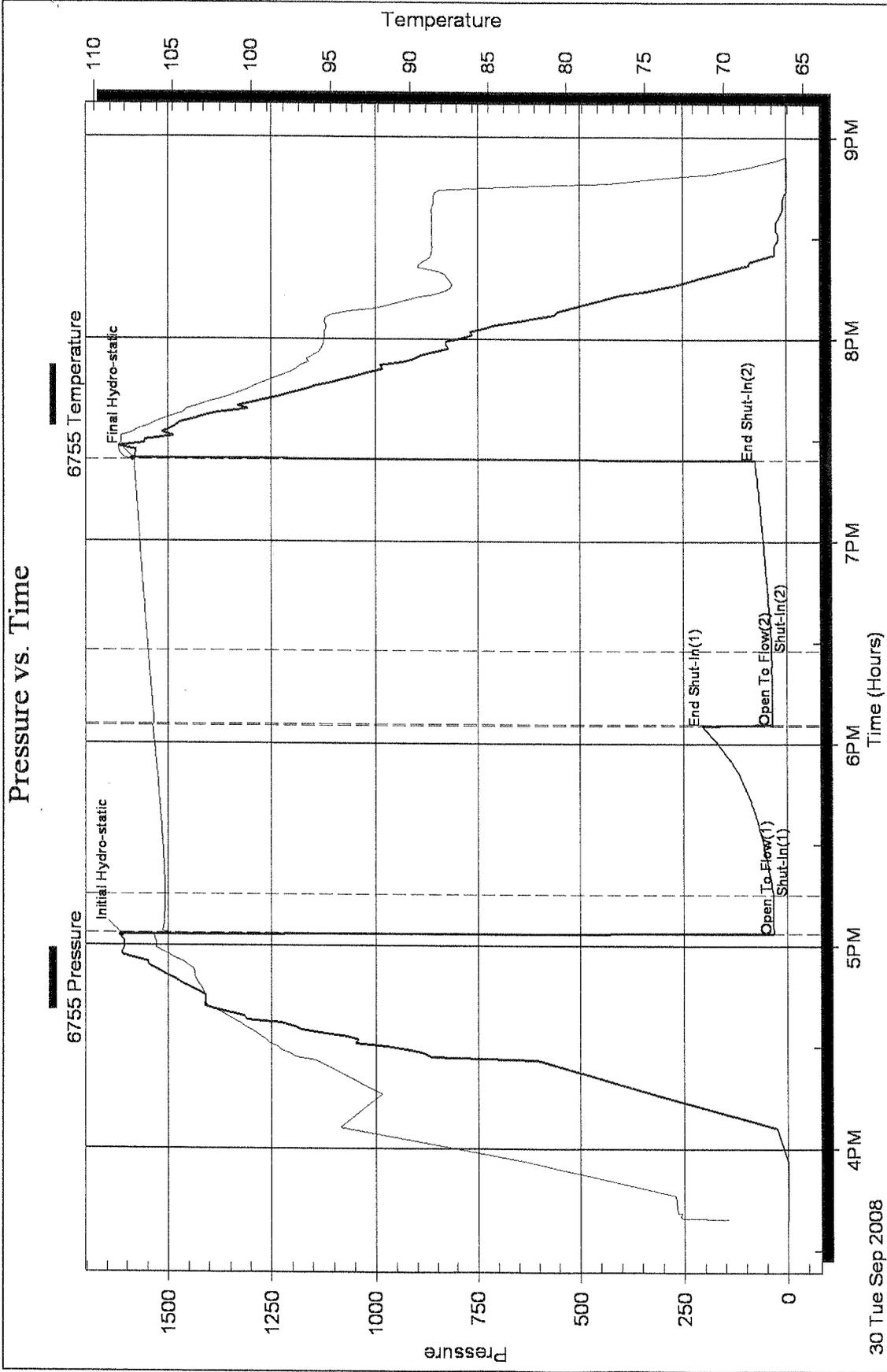
Inside

Samuel Gary Jr. & Associates

1 18 12 Barton KS

DST Test Number: 1

### Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **Samuel Gary Jr. & Associates**

1560 Broadway  
Suite 2100  
Denver, CO 80202

ATTN: Clayton Camozzi

**1 18 12 Barton KS**

**Liebl Et Al #2-1**

Start Date: 2008.10.01 @ 13:49:00

End Date: 2008.10.01 @ 16:25:30

Job Ticket #: 34277                      DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates

Liebl Et Al #2-1

1560 Broadway  
Suite 2100  
Denver, CO 80202  
ATTN: Clayton Camozzi

1 18 12 Barton KS

Job Ticket: 34277

DST#: 2

Test Start: 2008.10.01 @ 13:49:00

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Time Test Ended: 16:25:30

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 32

Interval: **3398.00 ft (KB) To 3433.00 ft (KB) (TVD)**

Total Depth: 3433.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 1847.00 ft (KB)

1839.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: **6755** Inside

Press@RunDepth: psig @ 3401.00 ft (KB)

Start Date: 2008.10.01

End Date:

2008.10.01

Capacity: 7000.00 psig

Last Calib.: 2008.10.01

Start Time: 13:49:02

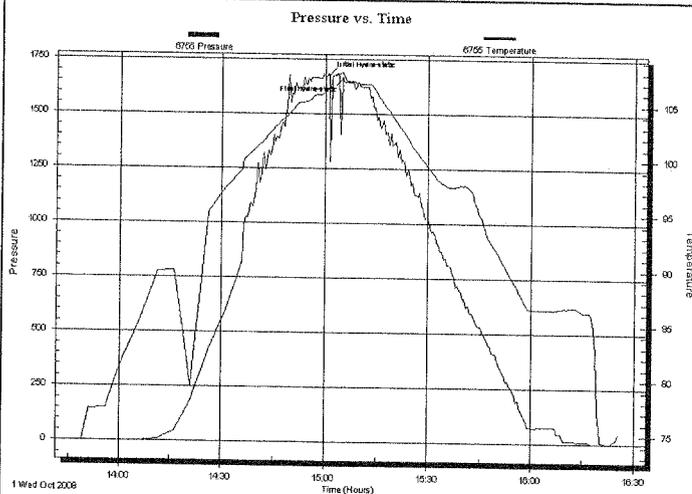
End Time:

16:25:30

Time On Btm: 2008.10.01 @ 15:01:00

Time Off Btm: 2008.10.01 @ 15:05:00

TEST COMMENT: IFP-Packer Failure



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1679.12	106.48	Initial Hydro-static
4	1662.59	107.97	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
150.00	Mud	2.10

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Samuel Gary Jr. & Associates

**Liebl Et Al #2-1**

1560 Broadway  
Suite 2100  
Denver, CO 80202

**1 18 12 Barton KS**

Job Ticket: 34277

**DST#: 2**

ATTN: Clayton Camozzi

Test Start: 2008.10.01 @ 13:49:00

### Tool Information

Drill Pipe:	Length: 3378.00 ft	Diameter: 3.80 inches	Volume: 47.38 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 39000.00 lb
		<b>Total Volume:</b>	<b>47.38 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 39000.00 lb
Depth to Top Packer:	3398.00 ft			Final 39000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	35.00 ft			
Tool Length:	63.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3371.00	
Shut In Tool	5.00			3376.00	
Hydraulic tool	5.00			3381.00	
Jars	5.00			3386.00	
Safety Joint	2.00			3388.00	
Packer	5.00			3393.00	28.00 Bottom Of Top Packer
Packer	5.00			3398.00	
Stubb	1.00			3399.00	
Perforations	2.00			3401.00	
Recorder	0.00	8360	Outside	3401.00	
Recorder	0.00	6755	Inside	3401.00	
Perforations	29.00			3430.00	
Bullnose	3.00			3433.00	35.00 Bottom Packers & Anchor

**Total Tool Length: 63.00**



**TRILOBITE  
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# DRILL STEM TEST REPORT

## FLUID SUMMARY

Samuel Gary Jr. & Associates

**Liebl Et Al #2-1**

1560 Broadway  
Suite 2100  
Denver, CO 80202  
ATTN: Clayton Camozzi

**1 18 12 Barton KS**

Job Ticket: 34277

**DST#: 2**

Test Start: 2008.10.01 @ 13:49:00

### Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: lb/gal

Viscosity: sec/qt

Water Loss: in<sup>3</sup>

Resistivity: ohm.m

Salinity: ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

deg API

Water Salinity: ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
150.00	Mud	2.104

Total Length: 150.00 ft      Total Volume: 2.104 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

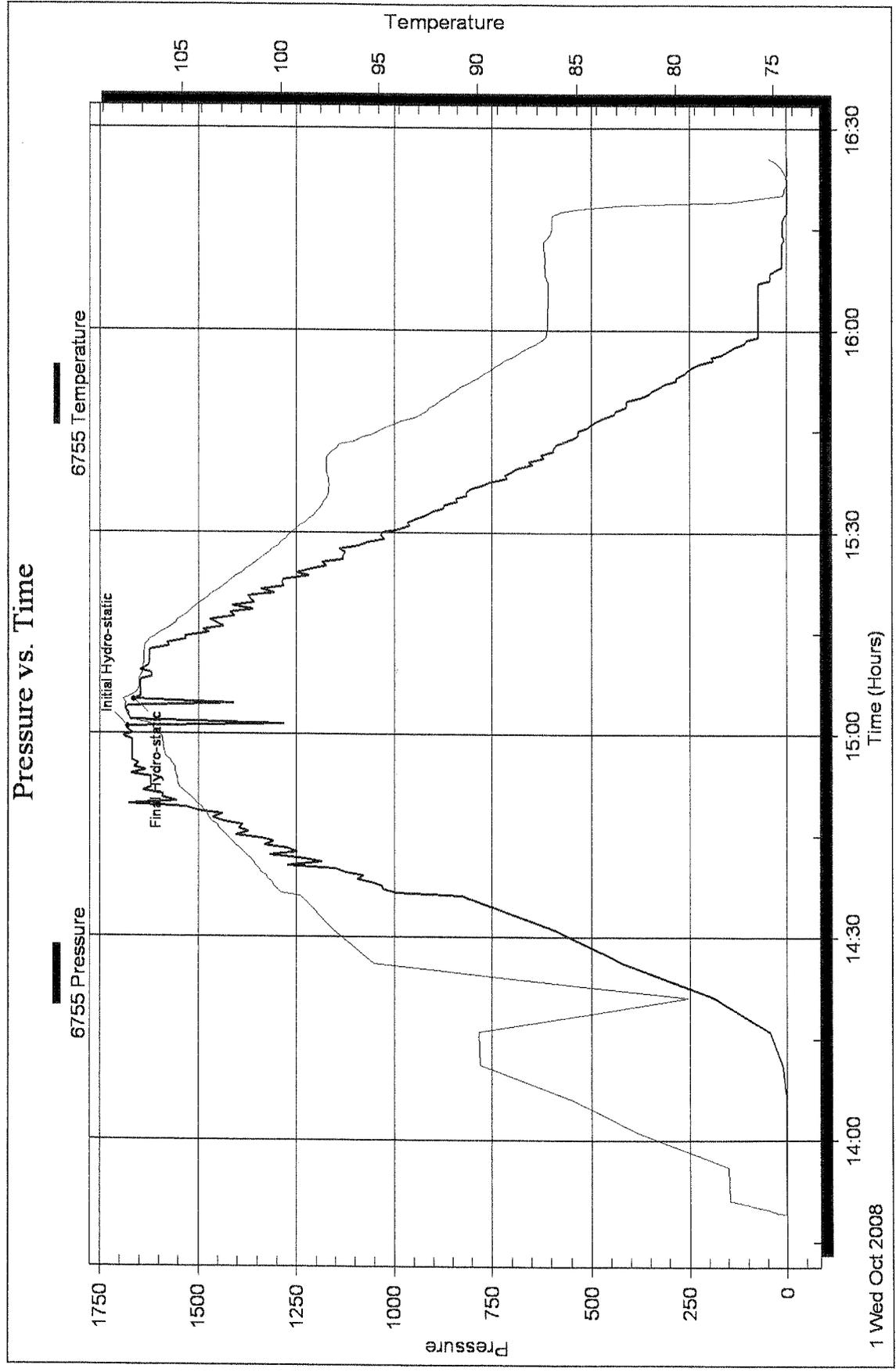
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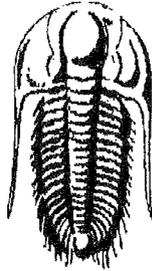
Inside

Samuel Gary Jr. & Associates

1 18 12 Barton KS

DST Test Number: 2





**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Samuel Gary Jr. & Associates**

1560 Broadway  
Suite 2100  
Denver, CO 80202

ATTN: Clayton Camozzi

**1 18 12 Barton KS**

**Liebl Et Al #2-1**

Start Date: 2008.10.01 @ 17:05:12

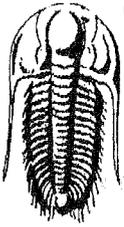
End Date: 2008.10.01 @ 23:39:42

Job Ticket #: 34278                      DST #: 3

Trilobite Testing, Inc

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ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE  
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# DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates  
1560 Broadway  
Suite 2100  
Denver, CO 80202  
ATTN: Clayton Camozzi

**Liebl Et Al #2-1**

**1 18 12 Barton KS**

Job Ticket: 34278

DST#: 3

Test Start: 2008.10.01 @ 17:05:12

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:19:42

Time Test Ended: 23:39:42

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 32

Interval: **3355.00 ft (KB) To 3433.00 ft (KB) (TVD)**

Total Depth: 3433.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 1847.00 ft (KB)

1839.00 ft (CF)

KB to GR/CF: 8.00 ft

**Serial #: 6755 Inside**

Press@RunDepth: 89.70 psig @ 3359.00 ft (KB)

Start Date: 2008.10.01

End Date:

2008.10.01

Capacity: 7000.00 psig

Last Calib.: 2008.10.02

Start Time: 17:05:14

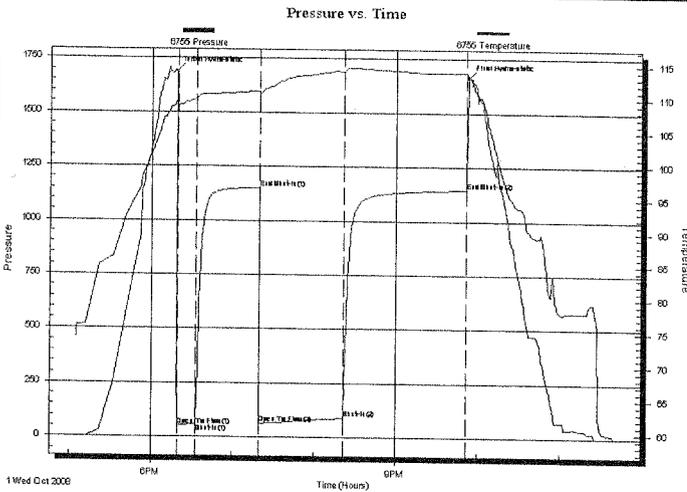
End Time:

23:39:42

Time On Btm: 2008.10.01 @ 18:18:42

Time Off Btm: 2008.10.01 @ 21:53:12

TEST COMMENT: IFP-Weak Blow ,Built to 2-1/4"  
ISI-Dead  
FFP-Weak Blow ,Built to 4-1/2"  
ISI-Dead



## PRESSURE SUMMARY

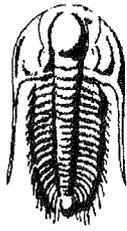
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1688.93	109.46	Initial Hydro-static
1	50.78	108.90	Open To Flow (1)
14	60.32	109.86	Shut-In(1)
61	1151.05	111.02	End Shut-In(1)
61	62.01	110.36	Open To Flow (2)
123	89.70	114.03	Shut-In(2)
214	1144.21	113.79	End Shut-In(2)
215	1663.28	113.64	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	Free Oil	0.14
80.00	VSOCM-1%O-99%M	1.12

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Samuel Gary Jr. & Associates

**Liebl Et Al #2-1**

1560 Broadway  
Suite 2100  
Denver, CO 80202  
ATTN: Clayton Camozzi

**1 18 12 Barton KS**

Job Ticket: 34278

**DST#: 3**

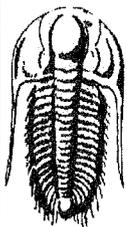
Test Start: 2008.10.01 @ 17:05:12

### Tool Information

Drill Pipe:	Length: 3348.00 ft	Diameter: 3.80 inches	Volume: 46.96 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 40000.00 lb
		<u>Total Volume:</u>	46.96 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 39000.00 lb
Depth to Top Packer:	3355.00 ft			Final 39000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	78.00 ft			
Tool Length:	106.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3328.00	
Shut In Tool	5.00			3333.00	
Hydraulic tool	5.00			3338.00	
Jars	5.00			3343.00	
Safety Joint	2.00			3345.00	
Packer	5.00			3350.00	28.00 Bottom Of Top Packer
Packer	5.00			3355.00	
Stubb	1.00			3356.00	
Perforations	2.00			3358.00	
Recorder	0.00	8360	Inside	3358.00	
Change Over Sub	1.00			3359.00	
Recorder	0.00	6755	Inside	3359.00	
Blank Spacing	61.00			3420.00	
Change Over Sub	1.00			3421.00	
Perforations	9.00			3430.00	
Bullnose	3.00			3433.00	78.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>106.00</b>				



**TRILOBITE**  
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# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Samuel Gary Jr. & Associates

**Liebl Et Al #2-1**

1560 Broadway  
Suite 2100  
Denver, CO 80202

**1 18 12 Barton KS**

Job Ticket: 34278

**DST#: 3**

ATTN: Clayton Camozzi

Test Start: 2008.10.01 @ 17:05:12

## Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: lb/gal

Viscosity: sec/qt

Water Loss: in<sup>3</sup>

Resistivity: ohm.m

Salinity: ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

38 deg API

Water Salinity: ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Free Oil	0.140
80.00	VSOCM-1%O-99%M	1.122

Total Length: 90.00 ft      Total Volume: 1.262 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

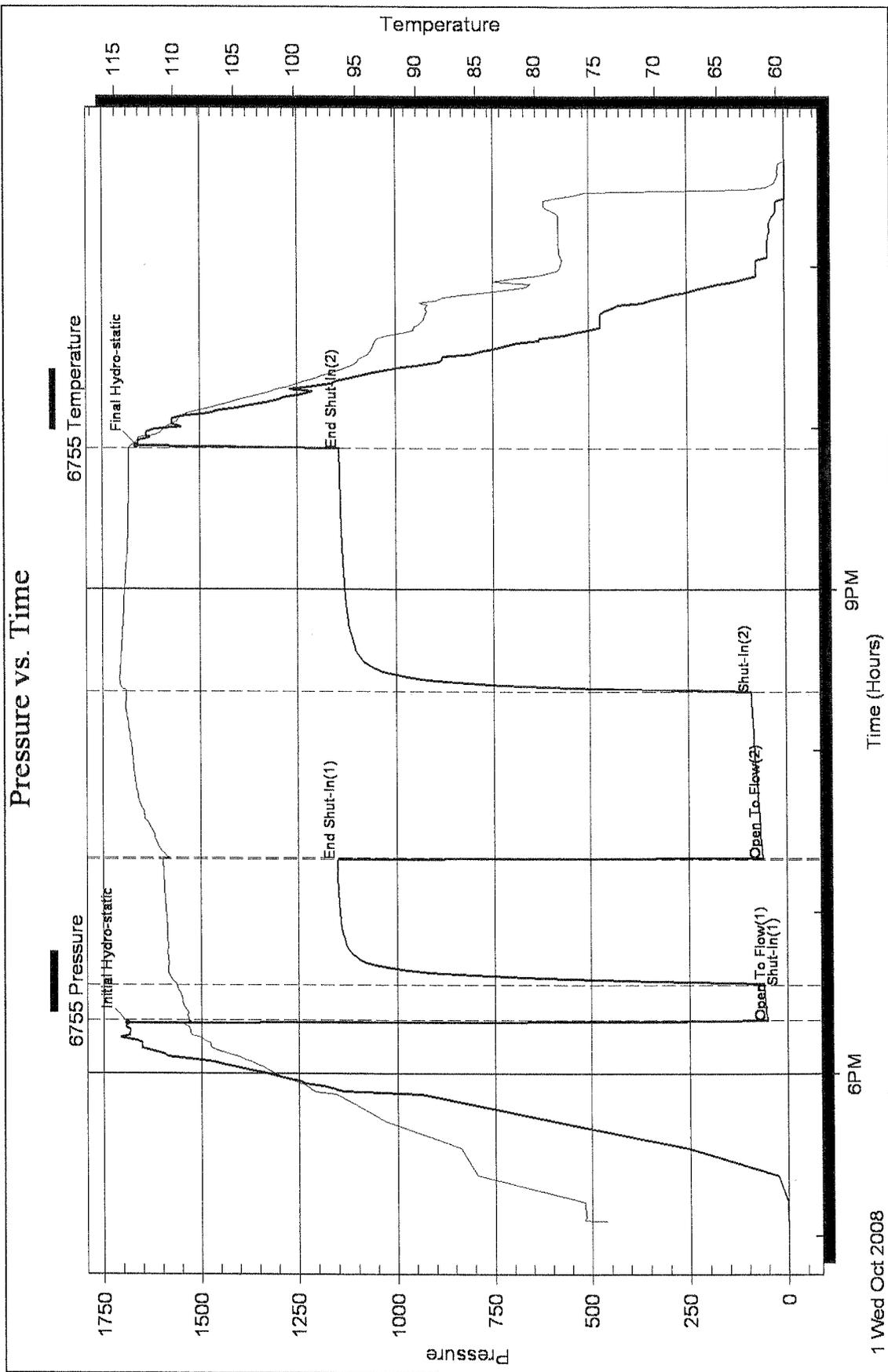
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **Samuel Gary Jr. & Associates**

1560 Broadway  
Suite 2100  
Denver, CO 80202

ATTN: Clayton Camozzi

**1 18 12 Barton KS**

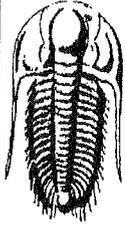
**Liebl Et Al #2-1**

Start Date: 2008.10.02 @ 18:26:46

End Date: 2008.10.03 @ 00:56:46

Job Ticket #: 34279                      DST #: 4

Trilobite Testing, Inc  
PO Box 1733 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates

1560 Broadway  
Suite 2100  
Denver, CO 80202  
ATTN: Clayton Camozzi

Liebl Et Al #2-1

1 18 12 Barton KS

Job Ticket: 34279

DST#: 4

Test Start: 2008.10.02 @ 18:26:46

## GENERAL INFORMATION:

Formation: **Arbuckle**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 19:50:46  
Time Test Ended: 00:56:46

Test Type: Conventional Straddle  
Tester: Jason McLemore  
Unit No: 32

Interval: **3427.00 ft (KB) To 3442.00 ft (KB) (TVD)**  
Total Depth: 3527.00 ft (KB) (TVD)  
Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 1847.00 ft (KB)  
1839.00 ft (CF)  
KB to GR/CF: 8.00 ft

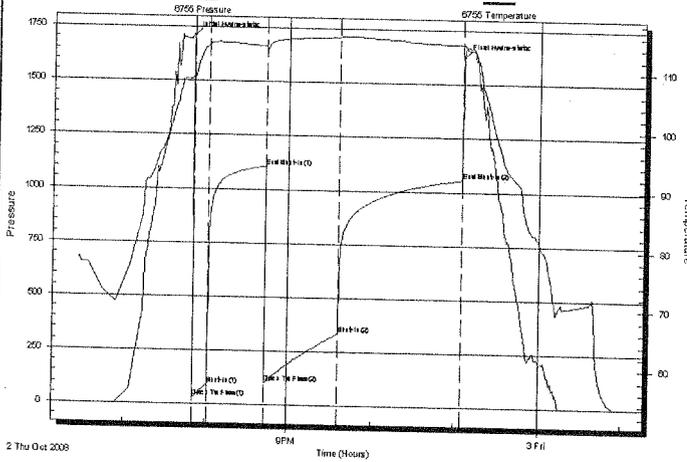
## Serial #: 6755 Inside

Press@RunDepth: 333.98 psig @ 3428.00 ft (KB)  
Start Date: 2008.10.02 End Date: 2008.10.03  
Start Time: 18:26:48 End Time: 00:56:46

Capacity: 7000.00 psig  
Last Calib.: 2008.10.02  
Time On Btm: 2008.10.02 @ 19:50:16  
Time Off Btm: 2008.10.02 @ 23:05:46

TEST COMMENT: IFI Strong BOB in 5min  
ISI dead  
FFP Strong BOB in 6.5mins  
FSI Dead

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1710.77	108.97	Initial Hydro-static
1	34.14	108.35	Open To Flow (1)
11	91.11	114.06	Shut-In(1)
53	1106.95	113.98	End Shut-In(1)
53	102.72	113.29	Open To Flow(2)
106	333.98	115.60	Shut-In(2)
195	1054.85	114.60	End Shut-In(2)
196	1624.67	114.76	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
700.00	Muddy Water-95%W-5%M	9.82

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Samuel Gary Jr. & Associates

Liebl Et Al #2-1

1560 Broadway  
Suite 2100  
Denver, CO 80202

1 18 12 Barton KS

Job Ticket: 34279

DST#: 4

ATTN: Clayton Camozzi

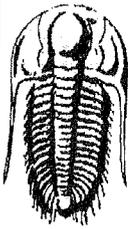
Test Start: 2008.10.02 @ 18:26:46

### Tool Information

Drill Pipe:	Length: 3408.00 ft	Diameter: 3.80 inches	Volume: 47.81 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 42000.00 lb
			Total Volume: 47.81 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3427.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	3442.00 ft			
Interval between Packers:	15.00 ft			
Tool Length:	128.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3400.00	
Shut In Tool	5.00			3405.00	
Hydraulic tool	5.00			3410.00	
Jars	5.00			3415.00	
Safety Joint	2.00			3417.00	
Packer	5.00			3422.00	28.00 Bottom Of Top Packer
Packer	5.00			3427.00	
Stubb	1.00			3428.00	
Recorder	0.00	6755	Inside	3428.00	
Perforations	1.00			3429.00	
Perforations	9.00			3438.00	
Blank Off Sub	1.00			3439.00	
Blank Spacing	3.00			3442.00	15.00 Tool Interval
Packer	1.00			3443.00	
Stubb	1.00			3444.00	
Perforations	15.00			3459.00	
Recorder	0.00	8360	Below	3459.00	
Change Over Sub	1.00			3460.00	
Blank Spacing	63.00			3523.00	
Change Over Sub	1.00			3524.00	
Recorder	0.00	13252	Below	3524.00	
Bullnose	3.00			3527.00	85.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>128.00</b>				



**TRILOBITE**  
**TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Samuel Gary Jr. & Associates

**Liebl Et Al #2-1**

1560 Broadway  
Suite 2100

**1 18 12 Barton KS**

Denver, CO 80202

Job Ticket: 34279

**DST#: 4**

ATTN: Clayton Camozzi

Test Start: 2008.10.02 @ 18:26:46

## Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: lb/gal

Viscosity: sec/qt

Water Loss: in<sup>3</sup>

Resistivity: ohm.m

Salinity: ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: ppm

deg API

ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
700.00	Muddy Water-95%W-5%M	9.819

Total Length: 700.00 ft      Total Volume: 9.819 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time

