

15-159-22559

5-19s-10w



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Samuel Gary Jr Associates**

1560 Broadway Ste 2100
Denver CO 80202

ATTN: John Rakowski

5 19S 10W Rice KS

Orth # 2-5

Start Date: 2008.02.15 @ 12:47:11

End Date: 2008.02.15 @ 22:00:41

Job Ticket #: 30332

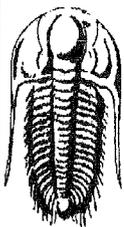
DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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CONFIDENTIAL
JUN 06 2008
KCC



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Samuel Gary Jr Associates

1560 Broadway Ste 2100
Denver CO 80202

ATTN: John Rakow ski

Orth # 2-5

5 19S 10W Rice KS

Job Ticket: 30332

DST#: 1

Test Start: 2008.02.15 @ 12:47:11

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:09:41

Time Test Ended: 22:00:41

Test Type: Conventional Bottom Hole

Tester: Jerry Adams

Unit No: 36

Interval: **3280.00 ft (KB) To 3325.00 ft (KB) (TVD)**

Total Depth: 3325.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1755.00 ft (KB)

1746.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 6798

Inside

Press@RunDepth: 45.56 psig @ 3285.00 ft (KB)

Start Date: 2008.02.15

End Date:

2008.02.15

Start Time: 12:47:12

End Time:

22:00:41

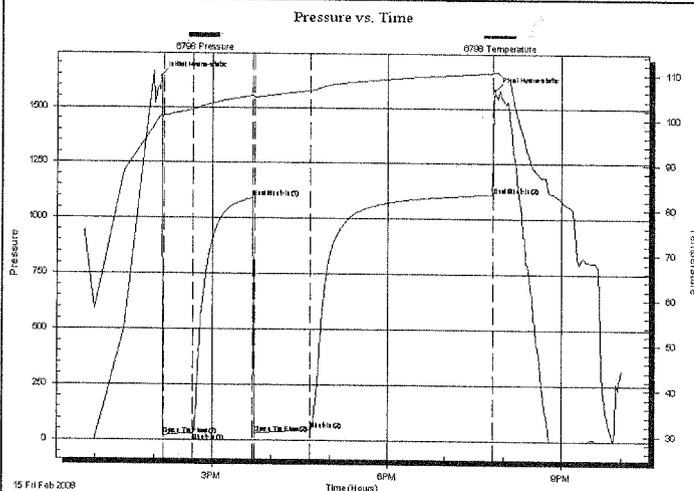
Capacity: 7000.00 psig

Last Calib.: 2008.02.15

Time On Btm: 2008.02.15 @ 14:07:41

Time Off Btm: 2008.02.15 @ 19:51:11

TEST COMMENT: IF Weak blow Built to 2 "
ISI No blow
FF Weak blow Built to 1/2 "
FSI No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1638.73	100.57	Initial Hydro-static
2	19.80	100.36	Open To Flow (1)
33	31.14	102.07	Shut-In(1)
94	1092.01	105.20	End Shut-In(1)
95	31.94	104.83	Open To Flow (2)
152	45.56	106.35	Shut-In(2)
342	1111.27	110.41	End Shut-In(2)
344	1581.55	110.58	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	OCM 15%O 85%M	0.25
15.00	Clean Oil 100%O	0.07
0.00	50' GIP	0.00
0.00	Grav. = 31 API @ 40 deg. 33 corr	0.00
0.00		0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary Jr Associates

Orth # 2-5

1560 Broadway Ste 2100
Denver CO 80202

5 19S 10W Rice KS

Job Ticket: 30332

DST#: 1

ATTN: John Rakowski

Test Start: 2008.02.15 @ 12:47:11

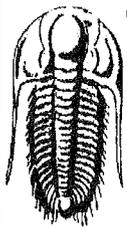
Tool Information

Drill Pipe:	Length: 3138.00 ft	Diameter: 3.80 inches	Volume: 44.02 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 50000.00 lb
			Total Volume: 44.63 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3280.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	45.00 ft			
Tool Length:	73.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3257.00	
Hydraulic tool	5.00			3262.00	
Jars	5.00			3267.00	
Safety Joint	3.00			3270.00	
Packer	5.00			3275.00	28.00 Bottom Of Top Packer
Packer	5.00			3280.00	
Stubb	1.00			3281.00	
Perforations	3.00			3284.00	
Change Over Sub	1.00			3285.00	
Recorder	0.00	6798	Inside	3285.00	
Recorder	0.00	8358	Inside	3285.00	
Blank Spacing	31.00			3316.00	
Change Over Sub	1.00			3317.00	
Perforations	5.00			3322.00	
Bullnose	3.00			3325.00	45.00 Bottom Packers & Anchor

Total Tool Length: 73.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr Associates

Orth # 2-5

1560 Broadway Ste 2100
Denver CO 80202

5 19S 10W Rice KS

Job Ticket: 30332

DST#: 1

ATTN: John Rakowski

Test Start: 2008.02.15 @ 12:47:11

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

33 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 11000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	OCM 15%O 85%M	0.246
15.00	Clean Oil 100%O	0.074
0.00	50' GIP	0.000
0.00	Grav. = 31 API @ 40 deg. 33 corr	0.000
0.00		0.000

Total Length: 65.00 ft

Total Volume: 0.320 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

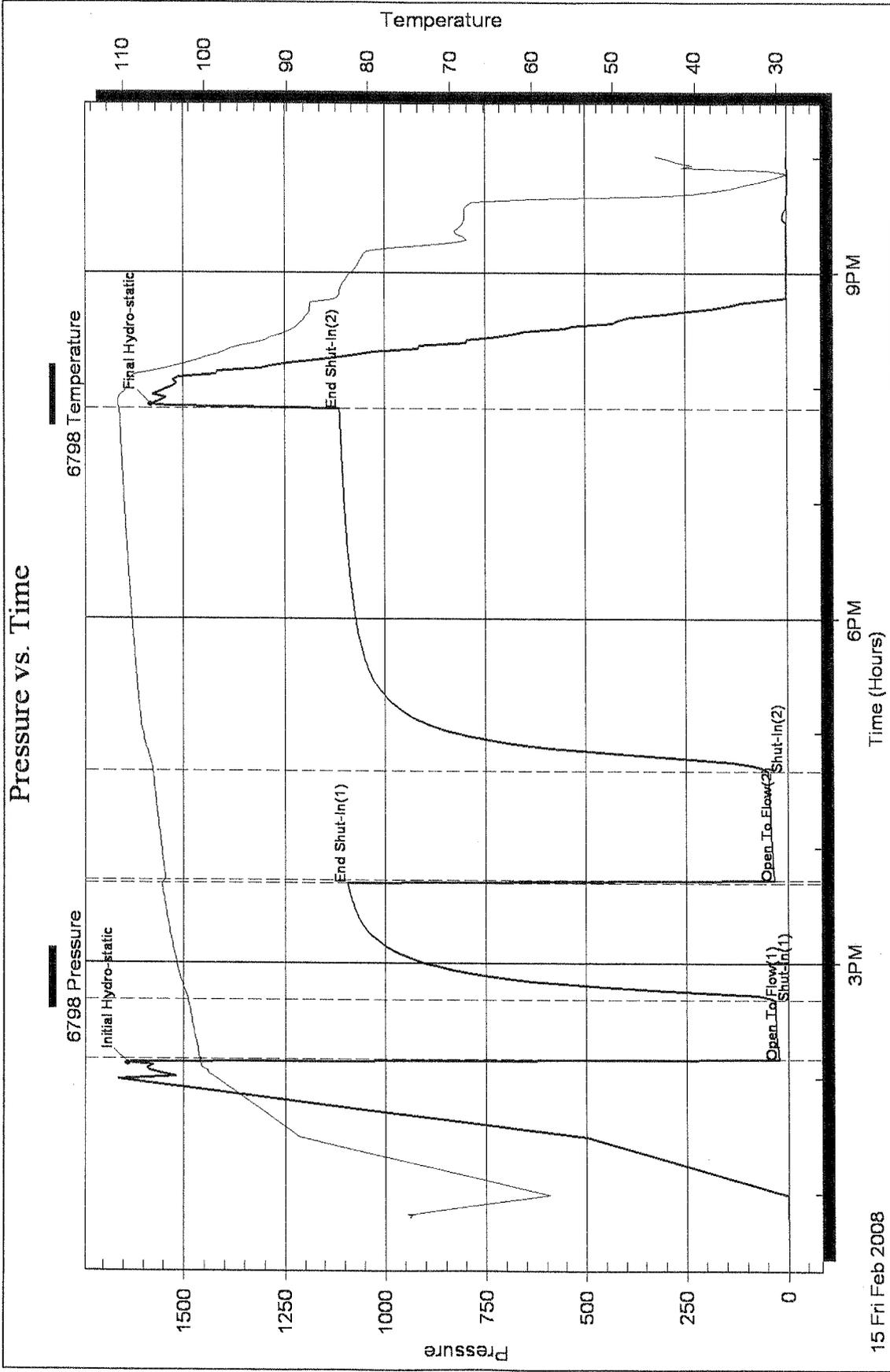
Serial #: none

Laboratory Name:

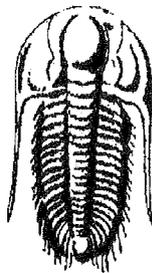
Laboratory Location:

Recovery Comments:

Pressure vs. Time



15 Fri Feb 2008



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DRILL STEM TEST REPORT

Prepared For: **Samuel Gary Jr Associates**

1560 Broadway Ste 2100
Denver CO 80202

ATTN: John Rakowski

5 19S 10W Rice KS

Orth # 2-5

Start Date: 2008.02.16 @ 04:48:42

End Date: 2008.02.16 @ 17:44:42

Job Ticket #: 30333 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Samuel Gary Jr Associates

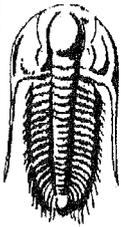
Orth # 2-5

5 19S 10W Rice KS

DST # 2

Arbuckle

2008.02.16



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr Associates

1560 Broadway Ste 2100
Denver CO 80202

ATTN: John Rakowski

Orth # 2-5

5 19S 10W Rice KS

Job Ticket: 30333

DST#: 2

Test Start: 2008.02.16 @ 04:48:42

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:35:42

Time Test Ended: 17:44:42

Test Type: Conventional Bottom Hole

Tester: Jerry Adams

Unit No: 36

Interval: **3325.00 ft (KB) To 3350.00 ft (KB) (TVD)**

Total Depth: 3350.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1755.00 ft (KB)

1746.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 6798

Inside

Press@RunDepth: 994.43 psig @ 3326.00 ft (KB)

Start Date: 2008.02.16

End Date:

2008.02.16

Start Time: 04:48:43

End Time:

17:44:42

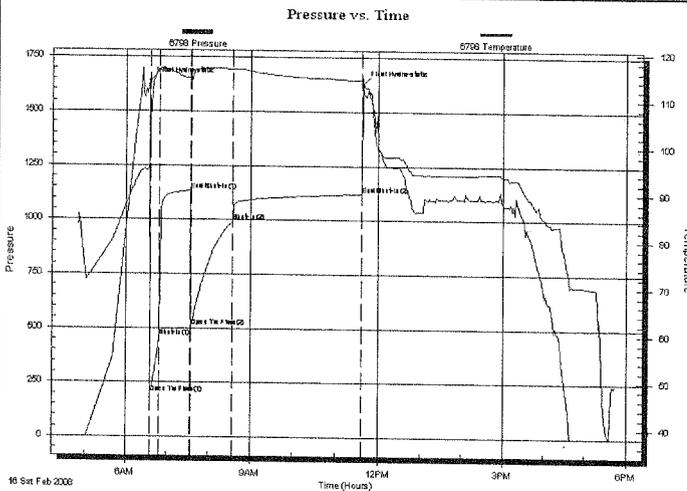
Capacity: 7000.00 psig

Last Calib.: 2008.02.16

Time On Btm: 2008.02.16 @ 06:34:12

Time Off Btm: 2008.02.16 @ 11:37:42

TEST COMMENT: IF Strong blow BOB in 45 secs.
ISI Weak blow Built to 3/4 "
FF Strong blow BOB in 30 secs.
FSI Weak surface blow



PRESSURE SUMMARY

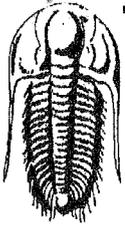
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1638.17	95.75	Initial Hydro-static
2	198.86	106.00	Open To Flow (1)
16	458.82	116.22	Shut-In(1)
60	1132.85	114.56	End Shut-In(1)
61	509.76	113.82	Open To Flow (2)
121	994.43	116.59	Shut-In(2)
303	1120.53	114.32	End Shut-In(2)
304	1628.56	114.68	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
260.00	MCO 60%o 40%am	2.52
1000.00	VSMCO 95%o 5%am	14.03
1500.00	Clean Oil 100%O	21.04
0.00	250' GIP	0.00
0.00	Grav. = 38 API @ 50 deg. 39 corr.	0.00
0.00		0.00

Gas Rates

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



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DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary Jr Associates

Orth # 2-5

1560 Broadway Ste 2100
Denver CO 80202

5 19S 10W Rice KS

Job Ticket: 30333

DST#: 2

ATTN: John Rakowski

Test Start: 2008.02.16 @ 04:48:42

Tool Information

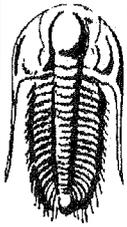
Drill Pipe:	Length: 3200.00 ft	Diameter: 3.80 inches	Volume: 44.89 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 62000.00 lb
			<u>Total Volume: 45.50 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3325.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 ft			
Tool Length:	53.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			3302.00	
Hydraulic tool	5.00			3307.00	
Jars	5.00			3312.00	
Safety Joint	3.00			3315.00	
Packer	5.00			3320.00	28.00 Bottom Of Top Packer
Packer	5.00			3325.00	
Stubb	1.00			3326.00	
Recorder	0.00	6798	Inside	3326.00	
Recorder	0.00	8358	Inside	3326.00	
Perforations	21.00			3347.00	
Bullnose	3.00			3350.00	25.00 Bottom Packers & Anchor

Total Tool Length: 53.00



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5 19S 10W Rice KS

Job Ticket: 30333

DST#: 2

ATTN: John Rakowski

Test Start: 2008.02.16 @ 04:48:42

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 57.00 sec/qt

Water Loss: 8.79 in³

Resistivity: 0.00 ohm.m

Salinity: 8200.00 ppm

Filter Cake: 0.20 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

39 deg API

Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
260.00	MCO 60%o 40%m	2.518
1000.00	VSMCO 95%o 5%m	14.027
1500.00	Clean Oil 100%O	21.041
0.00	250' GIP	0.000
0.00	Grav. = 38 API @ 50 deg. 39 corr.	0.000
0.00		0.000

Total Length: 2760.00 ft

Total Volume: 37.586 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

DST Test Number: 2

5 19S 10W Rice KS

Samuel Gary Jr Associates

Inside

Serial #: 6798

Pressure vs. Time

