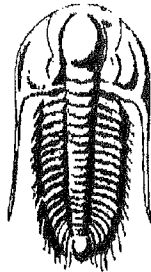


15-159-22576

5-19s-10w

IND



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

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

1560 Broadway, Ste. 2100
Denver, CO 80202

ATTN: Justin Carter

5 19s 10w Rice KS

Orth-Haddon #1-5

Start Date: 2008.08.06 @ 20:55:59

End Date: 2008.08.07 @ 04:46:14

Job Ticket #: 31733 DST #: 1

KCC
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CONFIDENTIAL

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Samuel Gary Jr. & Assoc., Inc.

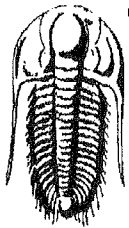
Orth-Haddon #1-5

5 19s 10w Rice KS

DST # 1

Arbuckle

2008.08.06



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr. & Assoc., Inc.

1560 Broadway, Ste. 2100
Denver, CO 80202

ATTN: Justin Carter

Orth-Haddon #1-5

5 19s 10w Rice KS

Job Ticket: 31733

DST#: 1

Test Start: 2008.08.06 @ 20:55:59

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:57:14

Time Test Ended: 04:46:14

Test Type: Conventional Bottom Hole

Tester: Esak Hadley

Unit No: 23

Interval: 3275.00 ft (KB) To 3348.00 ft (KB) (TVD)

Total Depth: 3348.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1763.00 ft (KB)

1753.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8370 Inside

Press@RunDepth: 33.50 psig @ 3276.00 ft (KB)

Start Date: 2008.08.06

End Date: 2008.08.07

Start Time: 20:56:04

End Time: 04:46:13

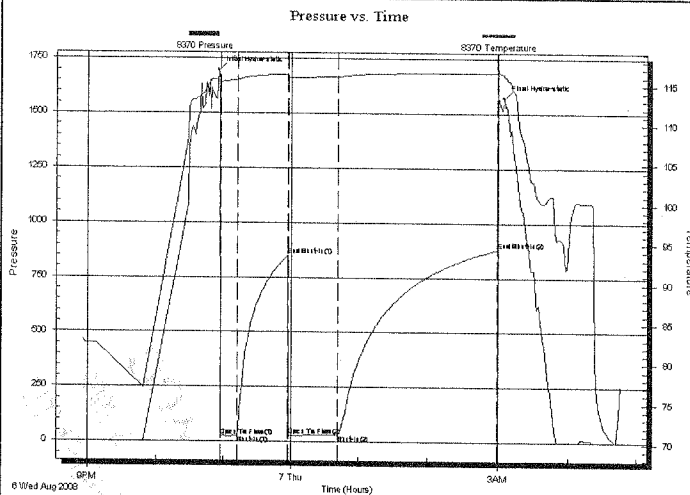
Capacity: 7000.00 psig

Last Calib.: 2008.08.07

Time On Btm: 2008.08.06 @ 22:55:14

Time Off Btm: 2008.08.07 @ 03:05:14

TEST COMMENT: IF Weak blow No more than 1"
ISI No blow
FF Weak surface blow No more than 1/2"
FSI No blow



PRESSURE SUMMARY

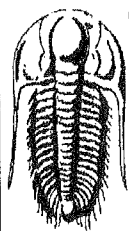
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1694.38	115.92	Initial Hydro-static
2	25.27	115.35	Open To Flow (1)
17	26.89	115.61	Shut-In(1)
62	847.79	116.36	End Shut-In(1)
63	29.30	115.84	Open To Flow (2)
107	33.50	116.06	Shut-In(2)
245	878.78	116.60	End Shut-In(2)
250	1571.55	116.30	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
25.00	G&OCM 5% G 5% O 90% M	0.35
5.00	GCO 5% G 95% O	0.07

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary Jr. & Assoc., Inc.

1560 Broadway, Ste. 2100
Denver, CO 80202

ATTN: Justin Carter

Orth-Haddon #1-5

5 19s 10w Rice KS

Job Ticket: 31733

DST#: 1

Test Start: 2008.08.06 @ 20:55:59

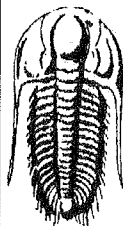
Tool Information

Drill Pipe:	Length: 3251.00 ft	Diameter: 3.80 inches	Volume: 45.60 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 22000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 44000.00 lb
			Total Volume: 45.60 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 36000.00 lb
Depth to Top Packer:	3275.00 ft			Final 38000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	73.00 ft			
Tool Length:	101.00 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			3248.00	
Shut In Tool	5.00			3253.00	
Hydraulic tool	5.00			3258.00	
Jars	5.00			3263.00	
Safety Joint	3.00			3266.00	
Packer	4.00			3270.00	28.00 Bottom Of Top Packer
Packer	5.00			3275.00	
Stubb	1.00			3276.00	
Recorder	0.00	8370	Inside	3276.00	
Recorder	0.00	8289	Inside	3276.00	
Perforations	4.00			3280.00	
Change Over Sub	1.00			3281.00	
Blank Spacing	61.00			3342.00	
Change Over Sub	1.00			3343.00	
Bullnose	5.00			3348.00	73.00 Bottom Packers & Anchor

Total Tool Length: 101.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Assoc., Inc.

Orth-Haddon #1-5

1560 Broadway, Ste. 2100
Denver, CO 80202

5 19s 10w Rice KS

Job Ticket: 31733

DST#: 1

ATTN: Justin Carter

Test Start: 2008.08.06 @ 20:55:59

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 10.00 lb/gal

Viscosity: 50.00 sec/qt

Water Loss: 9.18 in³

Resistivity: 0.00 ohm.m

Salinity: 8100.00 ppm

Filter Cake: 0.20 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

Water Salinity:

deg API

ppm

ft

bbl

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
25.00	G&OCM 5% G 5% O 90% M	0.351
5.00	GCO 5% G 95% O	0.070

Total Length: 30.00 ft

Total Volume: 0.421 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

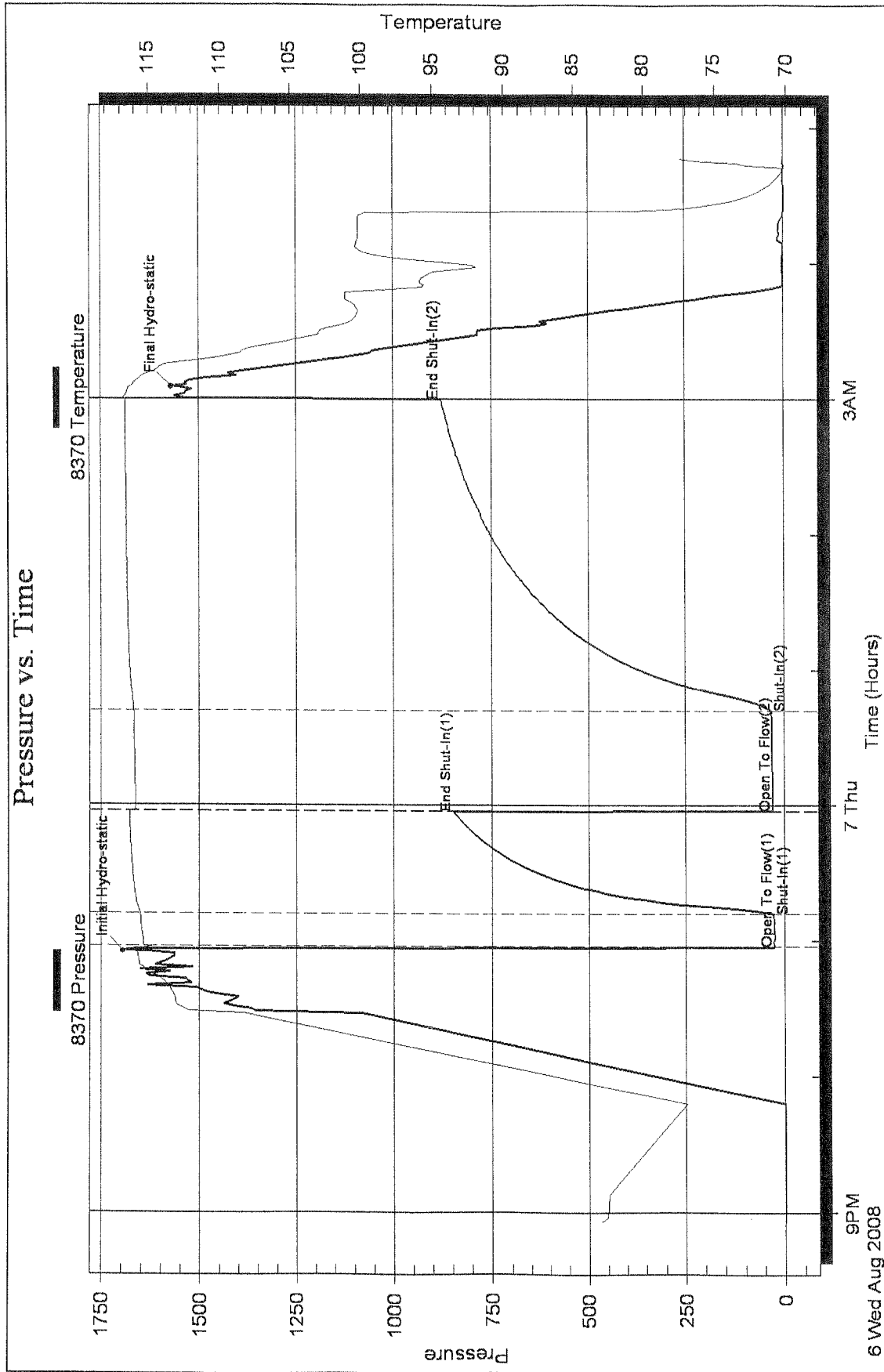
Serial #:

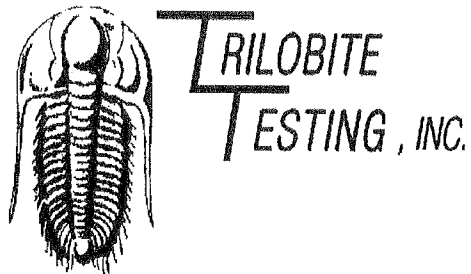
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

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

1560 Broadway, Ste. 2100
Denver, CO 80202

ATTN: Justin Carter

5 19s 10w Rice KS

Orth-Haddon #1-5

Start Date: 2008.08.07 @ 20:18:24

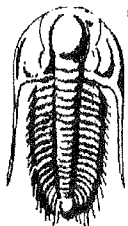
End Date: 2008.08.08 @ 06:45:39

Job Ticket #: 31734 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. & Assoc., Inc.

1560 Broadway, Ste. 2100
Denver, CO 80202

ATTN: Justin Carter

Orth-Haddon #1-5

5 19s 10w Rice KS

Job Ticket: 31734

DST#: 2

Test Start: 2008.08.07 @ 20:18:24

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:06:39

Time Test Ended: 06:45:39

Test Type: Conventional Bottom Hole

Tester: Esak Hadley

Unit No: 23

Interval: 3327.00 ft (KB) To 3358.00 ft (KB) (TVD)

Total Depth: 3410.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1763.00 ft (KB)

1753.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8370

Inside

Press@RunDepth: 568.15 psig @ 3328.00 ft (KB)

Start Date: 2008.08.07

End Date: 2008.08.08

Start Time: 20:18:29

End Time: 06:45:39

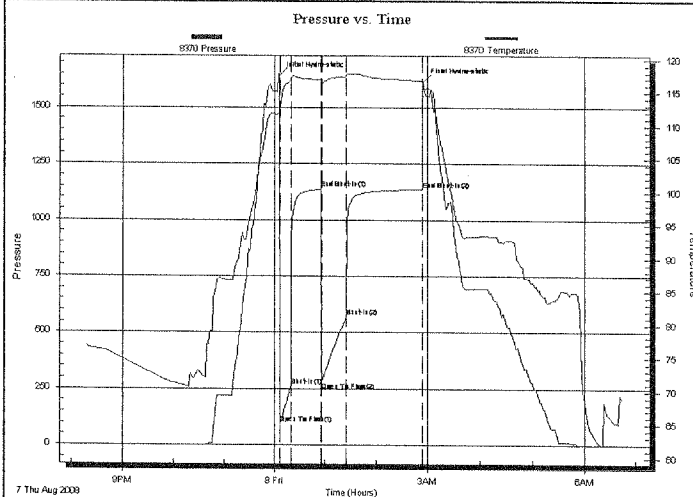
Capacity: 7000.00 psig

Last Calib.: 2008.08.08

Time On Btm: 2008.08.08 @ 00:05:39

Time Off Btm: 2008.08.08 @ 02:55:24

TEST COMMENT: IF Fair to strong blow BOB in 2 min
ISI Weak blow No more than 1"
FF Strong blow BOB in 90 sec
FSI Weak surface blow No more than 1/4"



PRESSURE SUMMARY

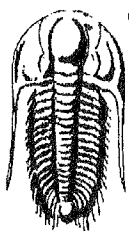
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1642.79	112.02	Initial Hydro-static
1	93.85	112.51	Open To Flow (1)
14	260.50	116.82	Shut-In(1)
50	1137.94	116.84	End Shut-In(1)
51	279.08	116.22	Open To Flow (2)
80	568.15	117.44	Shut-In(2)
169	1135.63	116.76	End Shut-In(2)
170	1613.48	116.32	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1260.00	GCO 15%G 85%O	17.67
220.00	W&GCOM 5%W 10%G 15%O 70%M	3.09

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary Jr. & Assoc., Inc.

Orth-Haddon #1-5

1560 Broadway, Ste. 2100
Denver, CO 80202

5 19s 10w Rice KS

Job Ticket: 31734

DST#: 2

ATTN: Justin Carter

Test Start: 2008.08.07 @ 20:18:24

Tool Information

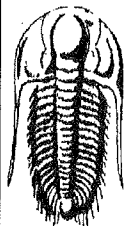
Drill Pipe:	Length: 3310.00 ft	Diameter: 3.80 inches	Volume: 46.43 bbl	Tool Weight:	2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	22000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	50000.00 lb
			Total Volume: 46.43 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial	40000.00 lb
Depth to Top Packer:	3327.00 ft			Final	48000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	83.00 ft				
Tool Length:	111.00 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			3300.00	
Shut In Tool	5.00			3305.00	
Hydraulic tool	5.00			3310.00	
Jars	5.00			3315.00	
Safety Joint	3.00			3318.00	
Packer	4.00			3322.00	28.00 Bottom Of Top Packer
Packer	5.00			3327.00	
Stubb	1.00			3328.00	
Recorder	0.00	8370	Inside	3328.00	
Recorder	0.00	13789	Inside	3328.00	
Perforations	26.00			3354.00	
Blank Off Sub	1.00			3355.00	83.00 Tool Interval
Packer	5.00			3360.00	
Recorder	0.00	8289	Below	3360.00	
Perforations	12.00			3372.00	
Change Over Sub	1.00			3373.00	
Blank Spacing	31.00			3404.00	
Change Over Sub	1.00			3405.00	
Bullnose	5.00			3410.00	1000110.00 Bottom Packers & Anchor

Total Tool Length: 111.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Assoc., Inc.

Orth-Haddon #1-5

1560 Broadway, Ste. 2100
Denver, CO 80202

5 19s 10w Rice KS

Job Ticket: 31734

DST#: 2

ATTN: Justin Carter

Test Start: 2008.08.07 @ 20:18:24

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 62.00 sec/qt

Water Loss: 10.38 in³

Resistivity: 0.00 ohm.m

Salinity: 10000.00 ppm

Filter Cake: 0.20 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1260.00	GCO 15%G 85%O	17.674
220.00	W&GCOM 5%W 10%G 15%O 70%M	3.086

Total Length: 1480.00 ft

Total Volume: 20.760 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

