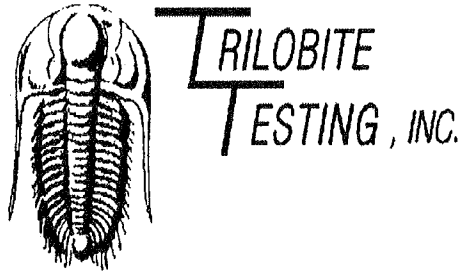


13-18s-10w

13-18s-10w
NW SW SE



DRILL STEM TEST REPORT

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

1670 Broadway Ste 3300
Denver CO 80202

ATTN: Tom Fertal

13 18S 10W Rice KS

Van Buren/Davis#1-13

Start Date: 2006.07.30 @ 01:23:00

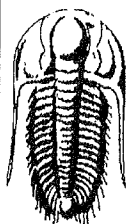
End Date: 2006.07.30 @ 08:10:45

Job Ticket #: 24953 DST #: 1

15-159-22486

KCC
NOV 15 2006
CONFIDENTIAL

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Samuel Gary Jr & Associates

Van Buren/Davis#1-13

1670 Broadway Ste 3300
Denver CO 80202

13 18S 10W Rice KS

Job Ticket: 24953

DST#: 1

ATTN: Tom Fertal

Test Start: 2006.07.30 @ 01:23:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:21:45

Time Test Ended: 08:10:45

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 23

Interval: 3250.00 ft (KB) To 3292.00 ft (KB) (TVD)

Total Depth: 3292.00 ft (KB) (TVD)

Hole Diameter: 7875.00 inches Hole Condition: Poor

Reference Elevations: 1752.00 ft (KB)

1746.00 ft (CF)

KB to GR/CF: 6.00 ft

Serial #: 6771

Inside

Press@RunDepth: 25.33 psig @ 3251.00 ft (KB)

Start Date: 2006.07.30

End Date:

2006.07.30

Start Time: 01:23:05

End Time:

08:10:44

Capacity: 7000.00 psig

Last Calib.: 2006.07.30

Time On Btm: 2006.07.30 @ 03:21:30

Time Off Btm: 2006.07.30 @ 06:18:14

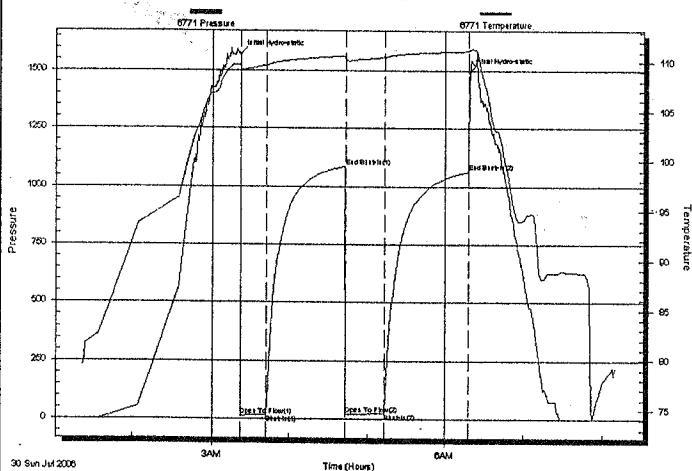
TEST COMMENT: IF Weak blow 1/2 "

ISI No blow

FF No blow

FSI No blow

Pressure vs. Time



PRESSURE SUMMARY

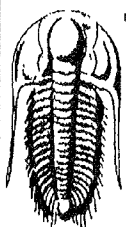
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1571.65	109.76	Initial Hydro-static
1	13.30	109.21	Open To Flow (1)
20	17.60	109.62	Shut-In(1)
82	1086.55	110.60	End Shut-In(1)
82	19.60	110.07	Open To Flow (2)
112	25.33	110.47	Shut-In(2)
177	1063.89	111.12	End Shut-In(2)
177	1494.30	111.26	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	Mud w/O specs	0.24

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 & Associates

Van Buren/Davis#1-13

1670 Broadway Ste 3300
Denver CO 80202

13 18S 10W Rice KS

Job Ticket: 24953

DST#: 1

ATTN: Tom Fertal

Test Start: 2006.07.30 @ 01:23:00

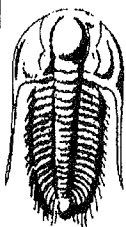
Tool Information

Drill Pipe:	Length: 2918.00 ft	Diameter: 2.75 inches	Volume: 21.44 bbl	Tool Weight:	2100.00 lb
Heavy Wt. Pipe:	Length: 310.00 ft	Diameter: 2.50 inches	Volume: 1.88 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	46000.00 lb
		Total Volume:	23.32 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial	36000.00 lb
Depth to Top Packer:	3250.00 ft			Final	36000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	42.00 ft				
Tool Length:	69.00 ft				
Number of Packers:	3	Diameter:	6.75 inches		
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3224.00	
Shut In Tool	5.00			3229.00	
Hydraulic tool	5.00			3234.00	
Jars	5.00			3239.00	
Safety Joint	2.00			3241.00	
Packer	4.00			3245.00	27.00 Bottom Of Top Packer
Packer	5.00			3250.00	
Stubb	1.00			3251.00	
Recorder	0.00	6771	Inside	3251.00	
Perforations	36.00			3287.00	
Recorder	0.00	13789	Outside	3287.00	
Bullnose	5.00			3292.00	42.00 Bottom Packers & Anchor

Total Tool Length: 69.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr & Associates

Van Buren/Davis#1-13

1670 Broadway Ste 3300
Denver CO 80202

13 18S 10W Rice KS

Job Ticket: 24953

DST#: 1

ATTN: Tom Fertal

Test Start: 2006.07.30 @ 01:23:00

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:

6000 ppm

Viscosity: 43.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	Mud w/O specs	0.243

Total Length: 40.00 ft

Total Volume: 0.243 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

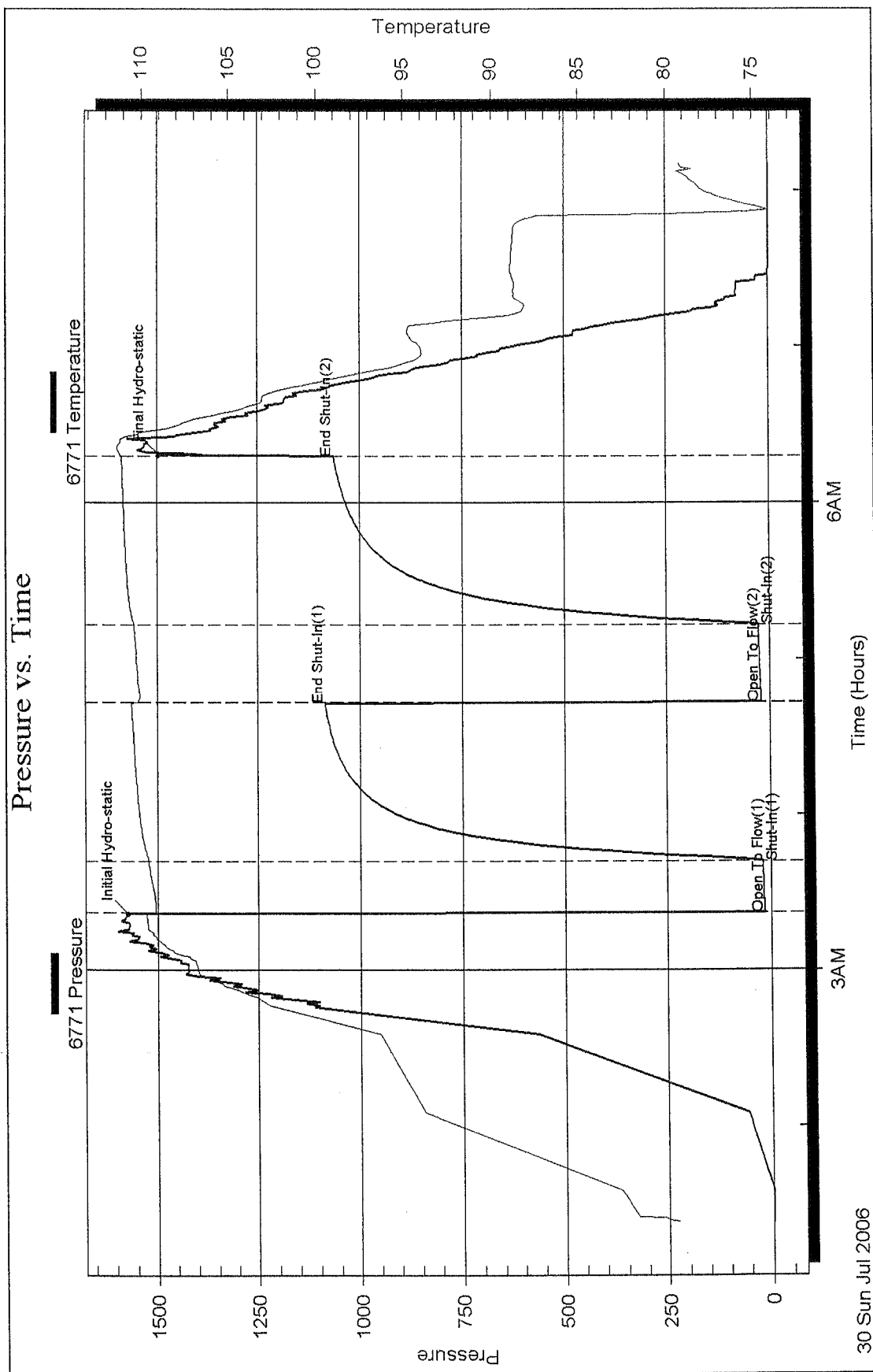
Serial #: none

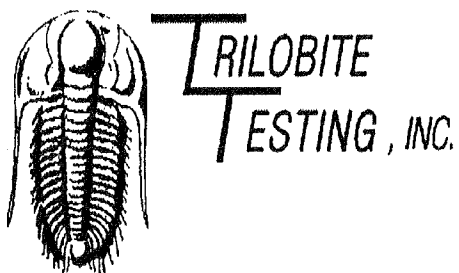
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

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

1670 Broadway Ste 3300
Denver CO 80202

ATTN: Tom Fertal

13 18S 10W Rice KS

Van Buren/Davis#1-13

Start Date: 2006.07.30 @ 15:30:26

End Date: 2006.07.30 @ 23:13:11

Job Ticket #: 24954 DST #: 2

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr & Associates

1670 Broadway Ste 3300
Denver CO 80202

ATTN: Tom Fertal

Van Buren/Davis#1-13

13 18S 10W Rice KS

Job Ticket: 24954

DST#: 2

Test Start: 2006.07.30 @ 15:30:26

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:13:56

Time Test Ended: 23:13:11

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 23

Interval: **3286.00 ft (KB) To 3297.00 ft (KB) (TVD)**

Total Depth: 3297.00 ft (KB) (TVD)

Hole Diameter: 7875.00 inches Hole Condition: Poor

Reference Elevations: 1752.00 ft (KB)

1746.00 ft (CF)

KB to GR/CF: 6.00 ft

Serial #: 6771 Inside

Press@RunDepth: 161.92 psig @ 3287.00 ft (KB)

Start Date: 2006.07.30

End Date:

2006.07.30

Start Time: 15:30:31

End Time:

23:13:10

Capacity: 7000.00 psig

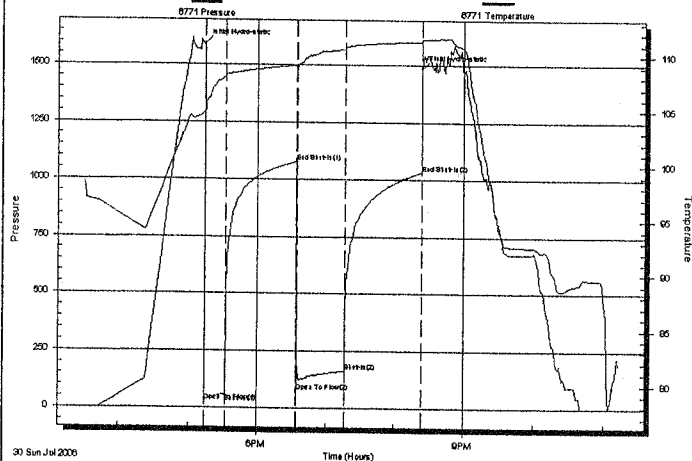
Last Calib.: 2006.07.30

Time On Btm: 2006.07.30 @ 17:13:41

Time Off Btm: 2006.07.30 @ 20:24:25

TEST COMMENT: IF Fair blow 4 - 8 " in 20 min
ISI No blow
FF Strong blow BOB in 14 min
FSI No blow

Pressure vs. Time



PRESSURE SUMMARY

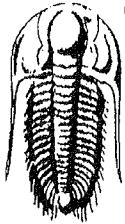
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1592.09	104.83	Initial Hydro-static
1	26.42	104.34	Open To Flow (1)
18	61.32	108.10	Shut-In(1)
80	1075.51	109.19	End Shut-In(1)
80	72.72	108.84	Open To Flow(2)
123	161.92	110.66	Shut-In(2)
191	1031.56	111.38	End Shut-In(2)
191	1483.79	111.63	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
240.00	MW 8%M 92%W Rw .25 OHMS@80 deg.1.46	
90.00	MW w/O specs 30%M 70%W	0.57

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 & Associates

Van Buren/Davis#1-13

1670 Broadway Ste 3300
Denver CO 80202

13 18S 10W Rice KS

Job Ticket: 24954

DST#: 2

ATTN: Tom Fertal

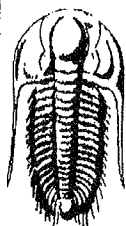
Test Start: 2006.07.30 @ 15:30:26

Tool Information

Drill Pipe:	Length: 2980.00 ft	Diameter: 2.75 inches	Volume: 21.89 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 310.00 ft	Diameter: 2.50 inches	Volume: 1.88 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 54000.00 lb
			Total Volume: 23.77 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 36000.00 lb
Depth to Top Packer:	3286.00 ft			Final 37000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	11.00 ft			
Tool Length:	38.00 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			3260.00	
Shut In Tool	5.00			3265.00	
Hydraulic tool	5.00			3270.00	
Jars	5.00			3275.00	
Safety Joint	2.00			3277.00	
Packer	4.00			3281.00	27.00 Bottom Of Top Packer
Packer	5.00			3286.00	
Stubb	1.00			3287.00	
Recorder	0.00	6771	Inside	3287.00	
Perforations	5.00			3292.00	
Recorder	0.00	13789	Outside	3292.00	
Bullnose	5.00			3297.00	11.00 Bottom Packers & Anchor

Total Tool Length: 38.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr & Associates

Van Buren/Davis#1-13

1670 Broadway Ste 3300
Denver CO 80202

13 18S 10W Rice KS

Job Ticket: 24954

DST#: 2

ATTN: Tom Fertal

Test Start: 2006.07.30 @ 15:30:26

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:

33000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbl

Water Loss: 11.19 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 9000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
240.00	MW 8%M 92%W Rw .25 OHMS@80 deg.	1.457
90.00	MW w/O specs 30%M 70%W	0.572

Total Length: 330.00 ft

Total Volume: 2.029 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

