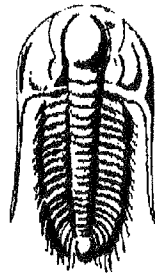


15-159-22565

23-18s-10w

IND



**TRILOBITE  
TESTING, INC.**

### DRILL STEM TEST REPORT

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

1560 Broadway Ste 2100  
Denver CO 80202

ATTN: Tom Fetta

**23 18 10W Rice KS**

**Stafford # 2-23**

Start Date: 2008.03.31 @ 09:35:18

End Date: 2008.04.02 @ 03:18:48

Job Ticket #: 30512                      DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Samuel Gary Jr & Associates

Stafford # 2-23

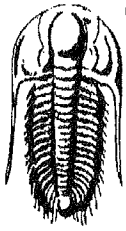
23 18 10W Rice KS

DST # 1

Arbuckle

2008.03.31

CONFIDENTIAL  
JUN 16 2008  
KCR



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Samuel Gary Jr & Associates

**Stafford # 2-23**

1560 Broadway Ste 2100  
Denver CO 80202

**23 18 10W Rice KS**

ATTN: Tom Fertal

Job Ticket: 30512

**DST#: 1**

Test Start: 2008.03.31 @ 09:35:18

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:16:48

Time Test Ended: 03:18:48

Test Type: Conventional Bottom Hole

Tester: Tyson Flax

Unit No: 44

Interval: **3246.00 ft (KB) To 3274.00 ft (KB) (TVD)**

Total Depth: 3274.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1760.00 ft (KB)

1750.00 ft (CF)

KB to GR/CF: 10.00 ft

**Serial #: 8374**

**Inside**

Press@RunDepth: 542.36 psig @ 3250.00 ft (KB)

Start Date: 2008.03.31

End Date:

2008.04.02

Start Time: 09:35:19

End Time:

03:18:48

Capacity: 7000.00 psig

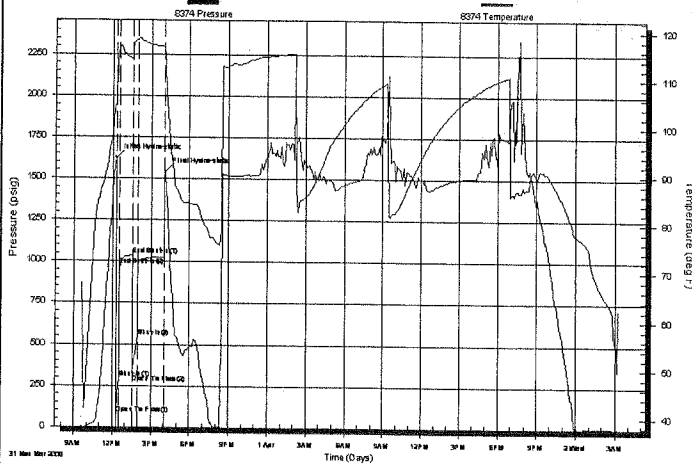
Last Calib.: 2008.04.02

Time On Btm: 2008.03.31 @ 12:16:18

Time Off Btm: 2008.03.31 @ 16:05:48

**TEST COMMENT:** IFP BOB in 2 min  
ISI Weak surface blow back died in 13 min  
FFP BOB in 2 min  
FSI No blow back

Pressure vs. Time



## PRESSURE SUMMARY

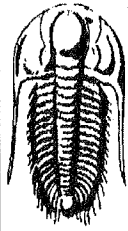
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1623.76	104.92	Initial Hydro-static
1	82.27	104.98	Open To Flow (1)
16	294.34	116.36	Shut-In(1)
75	1036.68	114.35	End Shut-In(1)
75	315.40	114.00	Open To Flow (2)
103	542.36	118.17	Shut-In(2)
226	1027.68	116.74	End Shut-In(2)
230	1541.81	114.62	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
155.00	HOCM 30%O 70%M	0.76
1023.00	CO	7.19

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Samuel Gary Jr & Associates

**Stafford # 2-23**

1560 Broadway Ste 2100  
Denver CO 80202

**23 18 10W Rice KS**

Job Ticket: 30512

**DST#: 1**

ATTN: Tom Fertal

Test Start: 2008.03.31 @ 09:35:18

### Tool Information

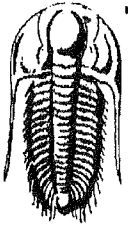
Drill Pipe:	Length: 2917.00 ft	Diameter: 2.76 inches	Volume: 21.59 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 310.00 ft	Diameter: 2.25 inches	Volume: 1.52 bbl	Weight to Pull Loose: 45000.00 lb
		<b>Total Volume:</b>	<b>23.11 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 41000.00 lb
Depth to Top Packer:	3246.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	56.00 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			3219.00	
Shut In Tool	5.00			3224.00	
Hydraulic tool	5.00			3229.00	
Jars	5.00			3234.00	
Safety Joint	2.00			3236.00	
Packer	5.00			3241.00	28.00 Bottom Of Top Packer
Packer	5.00			3246.00	
Stubb	1.00			3247.00	
Perforations	3.00			3250.00	
Recorder	0.00	8367	Inside	3250.00	
Recorder	0.00	8374	Inside	3250.00	
Perforations	21.00			3271.00	
Bullnose	3.00			3274.00	28.00 Bottom Packers & Anchor

**Total Tool Length: 56.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Samuel Gary Jr & Associates

**Stafford # 2-23**

1560 Broadway Ste 2100  
Denver CO 80202

**23 18 10W Rice KS**

Job Ticket: 30512

**DST#: 1**

ATTN: Tom Fertal

Test Start: 2008.03.31 @ 09:35:18

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

42 deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
155.00	HOCM 30%O 70%M	0.762
1023.00	CO	7.185

Total Length: 1178.00 ft

Total Volume: 7.947 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time

