

**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

1515 Wynkoop ste 700
Denver CO 80202

ATTN: Clayton Camozzi

Satterfield #1-1

1-17s-15w Barton,KS

Start Date: 2012.01.28 @ 22:02:46

End Date: 2012.01.29 @ 06:10:16

Job Ticket #: 46386 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

ORIGINAL

Printed: 2012.02.02 @ 14:14:26

Samuel Gary Jr & Associates Inc

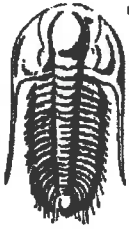
1-17s-15w Barton,KS

Satterfield #1-1

DST # 1

Lansing F & G

2012.01.28



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1-17s-15w Barton,KS

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Job Ticket: 46386

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2012.01.28 @ 22:02:46

GENERAL INFORMATION:

Formation: **Lansing F & G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:25:16

Time Test Ended: 06:10:16

Test Type: Conventional Bottom Hole (Initial)

Tester: Jeff Brown

Unit No: 150

Interval: **3290.00 ft (KB) To 3333.00 ft (KB) (TVD)**

Reference Elevations: 1980.00 ft (KB)

Total Depth: 3333.00 ft (KB) (TVD)

1972.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8321

Inside

Press@RunDepth: 42.65 psig @ 3294.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.01.28

End Date:

2012.01.29

Last Calib.: 2012.01.29

Start Time: 22:02:47

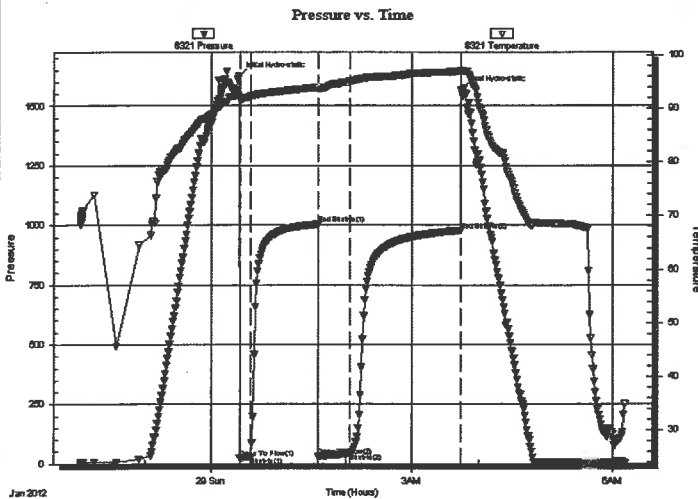
End Time:

06:10:16

Time On Btm: 2012.01.29 @ 00:24:46

Time Off Btm: 2012.01.29 @ 03:43:46

TEST COMMENT: IFP-10-min-Weak blow built to 2 in
ISI-60-Min-Weak surface blow back died in 26 min
FFP-30-Min-Weak blow built to 3 1/2 in
FSI-90-Min-Dead no blow back



PRESSURE SUMMARY

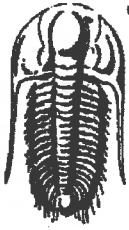
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1624.55	91.99	Initial Hydro-static
1	22.61	91.56	Open To Flow (1)
10	28.53	92.24	Shut-In (1)
71	1003.33	93.95	End Shut-In (1)
71	31.00	93.73	Open To Flow (2)
99	42.65	95.05	Shut-In (2)
199	977.70	96.89	End Shut-In (2)
199	1567.08	97.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
36.00	Mud with a scum of oil	0.50

Gas Rates

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



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TOOL DIAGRAM

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Denver CO 80202

Satterfield #1-1

Job Ticket: 46386

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2012.01.28 @ 22:02:46

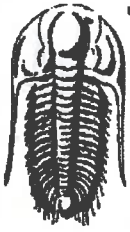
Tool Information

Drill Pipe:	Length: 3288.00 ft	Diameter: 3.80 inches	Volume: 46.12 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 22000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 54000.00 lb
			<u>Total Volume: 46.12 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 47000.00 lb
Depth to Top Packer:	3290.00 ft			Final 47000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	43.00 ft			
Tool Length:	77.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Recorder	0.00	8679	Fluid	3256.00	
Stubb	5.00			3261.00	
Shut In Tool	5.00			3266.00	
Sampler	2.00			3268.00	
Hydraulic tool	5.00			3273.00	
Jars	5.00			3278.00	
Safety Joint	3.00			3281.00	
Packer	4.00			3285.00	34.00 Bottom Of Top Packer
Packer	5.00			3290.00	
Stubb	1.00			3291.00	
Perforations	2.00			3293.00	
Change Over Sub	1.00			3294.00	
Recorder	0.00	8321	Inside	3294.00	
Recorder	0.00	8737	Outside	3294.00	
Drill Pipe	31.00			3325.00	
Change Over Sub	1.00			3326.00	
Perforations	4.00			3330.00	
Bullnose	3.00			3333.00	43.00 Bottom Packers & Anchor

Total Tool Length: 77.00



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FLUID SUMMARY

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Satterfield #1-1

Job Ticket: 46386

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2012.01.28 @ 22:02:46

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:

ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
36.00	Mud with a scum of oil	0.505

Total Length: 36.00 ft Total Volume: 0.505 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 2000 mL of total fluid 50 ML of oil 1

950 mL of mud 510 psi. OCM 20% O80%M

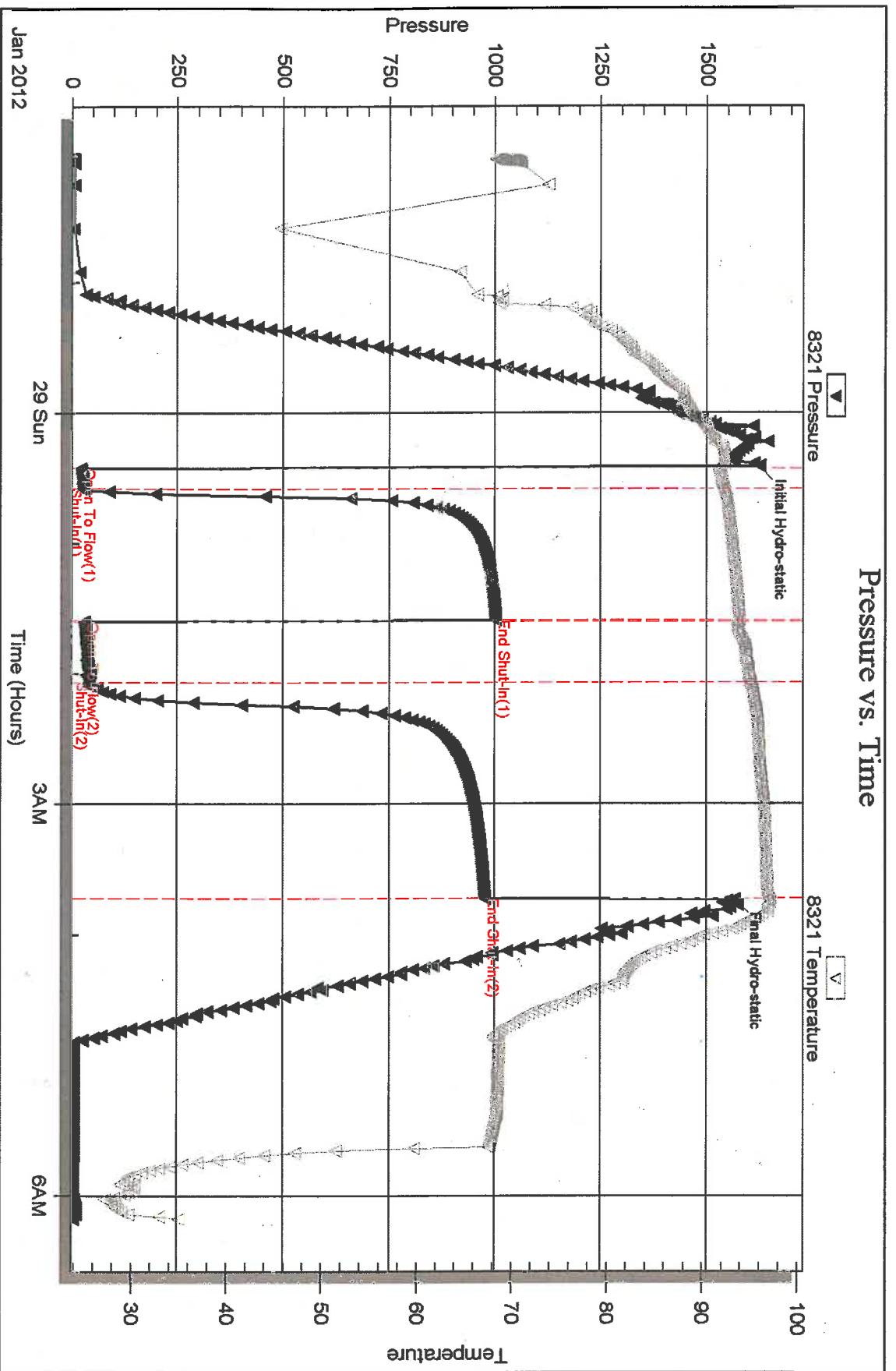
Serial #: 8321

Inside

Samuel Gary Jr & Associates Inc

Satterfield #1-1

DST Test Number: 1



Serial #: 8679

Fluid

Samuel Gary Jr & Associates Inc

Satterfield #1-1

DST Test Number: 1

