



DRILL STEM TEST REPORT

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

1515 Wynkoop St Suite 700
Denver CO 80202

ATTN: Clayton Camozzi

Wayne Funk #2-32

32-15s-15w Russell,KS

Start Date: 2012.02.27 @ 16:38:33

End Date: 2012.02.28 @ 00:43:33

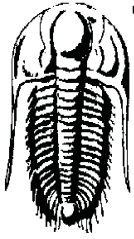
Job Ticket #: 46399 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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Printed: 2012.03.06 @ 14:55:08



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Samuel Gary Jr & Associates

32-15s-15w Russell, KS

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Denver CO 80202

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Job Ticket: 46399

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2012.02.27 @ 16:38:33

GENERAL INFORMATION:

Formation: **Lansing-A-D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:41:33

Time Test Ended: 00:43:33

Test Type: Conventional Bottom Hole (Initial)

Tester: Jeff Brown

Unit No: 44

Interval: 3138.00 ft (KB) To 3215.00 ft (KB) (TVD)

Reference Elevations: 1900.00 ft (KB)

Total Depth: 3215.00 ft (KB) (TVD)

1890.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8321

Inside

Press@RunDepth: 44.04 psig @ 3144.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.02.27

End Date:

2012.02.28

Last Calib.:

2012.02.28

Start Time: 16:38:34

End Time:

00:42:33

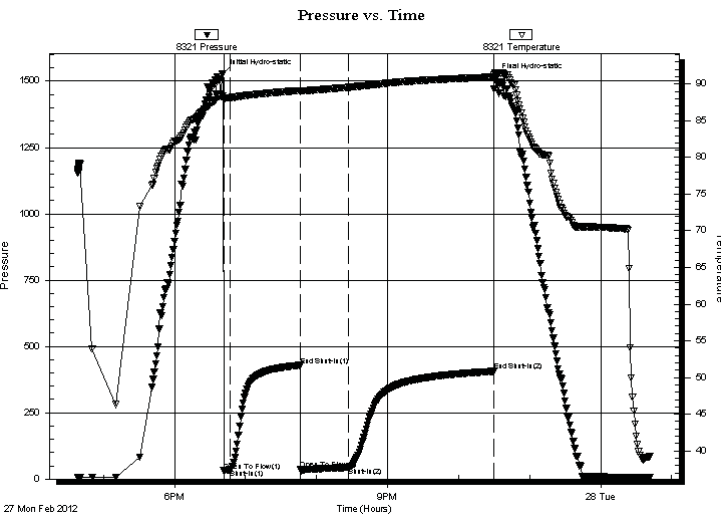
Time On Btm:

2012.02.27 @ 18:41:03

Time Off Btm:

2012.02.27 @ 22:30:33

TEST COMMENT: IFP-5-Min-Weak blow built to 1 1/2 in
ISI-60-Min-Dead no blow back
FFP-40-min-Fair blow built to 4 1/4 in
FSI-120-min-Dead no blow back



PRESSURE SUMMARY

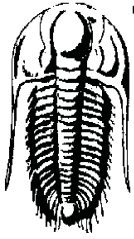
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1529.40	88.36	Initial Hydro-static
1	31.33	88.07	Open To Flow (1)
6	35.21	88.13	Shut-In(1)
65	428.50	89.13	End Shut-In(1)
66	35.22	89.05	Open To Flow (2)
106	44.04	89.57	Shut-In(2)
229	406.25	90.98	End Shut-In(2)
230	1514.04	91.48	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mud w with a scum of oil	0.28

Gas Rates

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



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TOOL DIAGRAM

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32-15s-15w Russell, KS

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Denver CO 80202

Wayne Funk #2-32

Job Ticket: 46399

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2012.02.27 @ 16:38:33

Tool Information

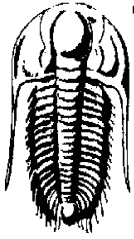
Drill Pipe:	Length: 3133.00 ft	Diameter: 3.80 inches	Volume: 43.95 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 22000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 43.95 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3138.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	77.00 ft			
Tool Length:	112.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Recorder	0.00	8679	Fluid	3103.00	
Stubb	5.00			3108.00	
Shut In Tool	5.00			3113.00	
Sampler	3.00			3116.00	
Hydraulic tool	5.00			3121.00	
Jars	5.00			3126.00	
Safety Joint	3.00			3129.00	
Packer	4.00			3133.00	35.00 Bottom Of Top Packer
Packer	5.00			3138.00	
Stubb	1.00			3139.00	
Perforations	4.00			3143.00	
Change Over Sub	1.00			3144.00	
Recorder	0.00	8321	Inside	3144.00	
Recorder	0.00	8737	Outside	3144.00	
Drill Pipe	62.00			3206.00	
Change Over Sub	1.00			3207.00	
Perforations	5.00			3212.00	
Bullnose	3.00			3215.00	77.00 Bottom Packers & Anchor

Total Tool Length: 112.00



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FLUID SUMMARY

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32-15s-15w Russell,KS

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Denver CO 80202

Wayne Funk #2-32

Job Ticket: 46399

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2012.02.27 @ 16:38:33

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: 61.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
20.00	Mud w ith a scum of oil	0.281

Total Length: 20.00 ft Total Volume: 0.281 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 3500 mL of fluid 150 PSI 3500 mL of mud

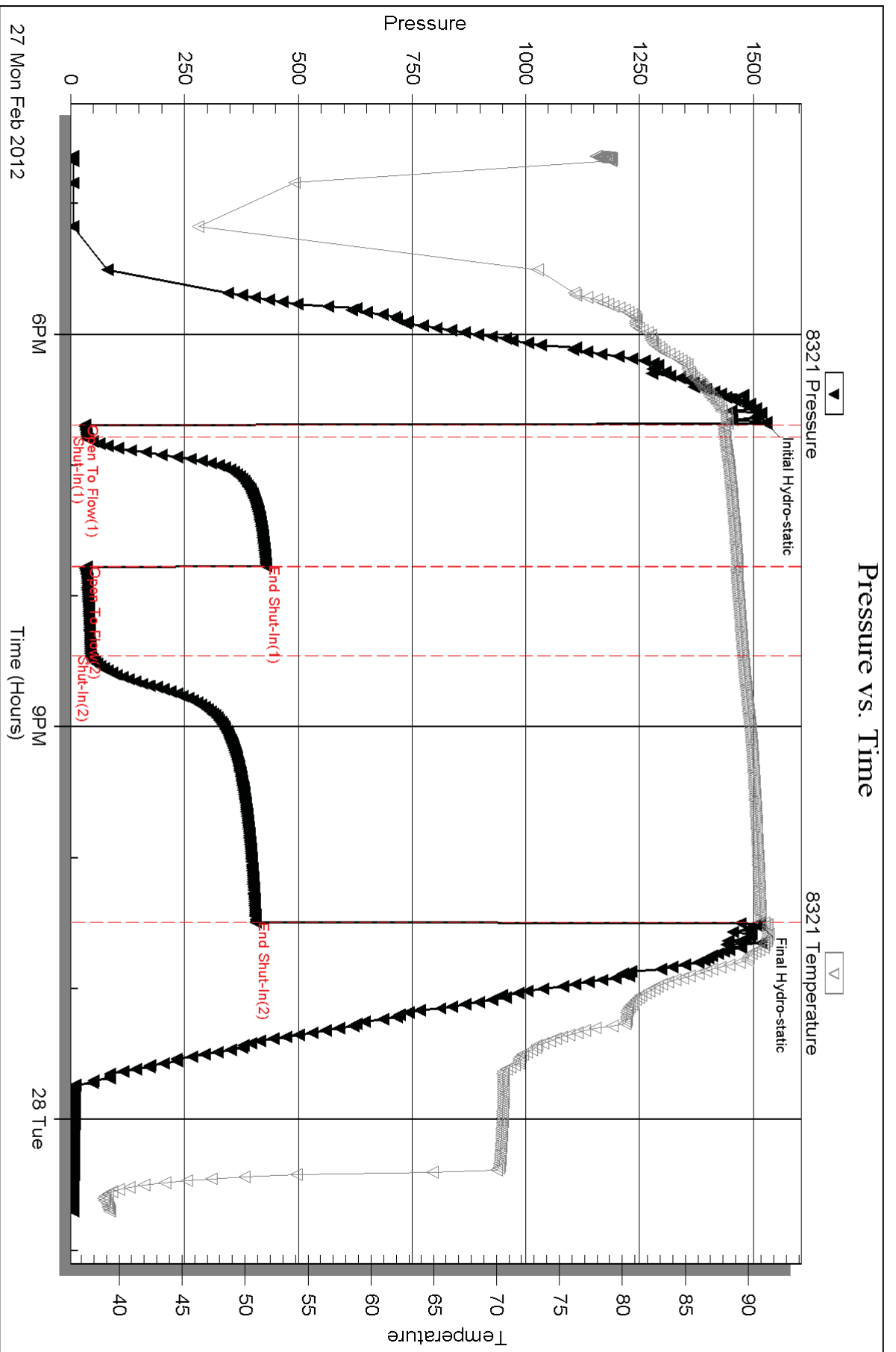
Serial #: 8321

Inside

Samuel Gary Jr & Associates

Wayne Funk #2-32

DST Test Number: 1



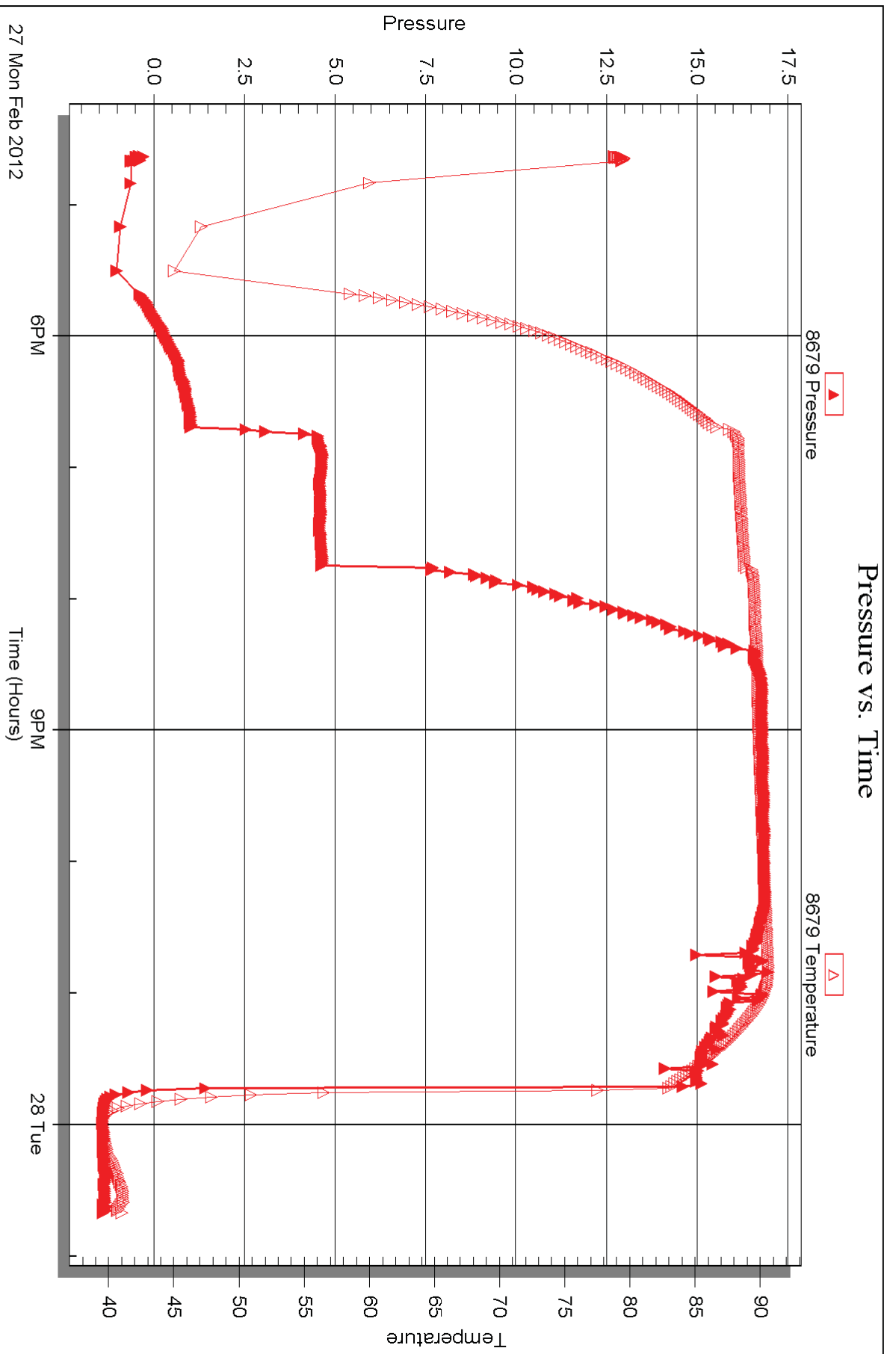
Serial #: 8679

Fluid

Samuel Gary Jr & Associates

Wayne Funk #2-32

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 46399

Printed: 2012.03.06 @ 14:55:11

Serial #: 8737

Outside Samuel Gary Jr & Associates

Wayne Funk #2-32

DST Test Number: 1

