

DRILL STEM TEST REPORT

Prepared For: **Samuel Gary, JR and Associates**

1515 Wynkoop st
Suite 700 Denver Co 80202

ATTN: Clayton Camozzi

Dumler Trust 1-33

33-15s-15w Russell KS

Start Date: 2012.04.21 @ 09:27:00

End Date: 2012.04.21 @ 16:49:00

Job Ticket #: 44780 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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Printed: 2012.04.25 @ 14:12:17



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary, JR and Associates

33-15s-15w Russell KS

1515 Wynkoop st
Suite 700 Denver Co 80202

Dumler Trust 1-33

Job Ticket: 44780

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2012.04.21 @ 09:27:00

GENERAL INFORMATION:

Formation: **Lansing C-E**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:28:30

Time Test Ended: 16:49:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jeff Brown

Unit No: 44

Interval: 3195.00 ft (KB) To 3242.00 ft (KB) (TVD)

Reference Elevations: 1929.00 ft (KB)

Total Depth: 3242.00 ft (KB) (TVD)

1919.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8321 Inside

Press@RunDepth: 81.61 psig @ 3232.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.04.21 End Date: 2012.04.21

Last Calib.: 2012.04.21

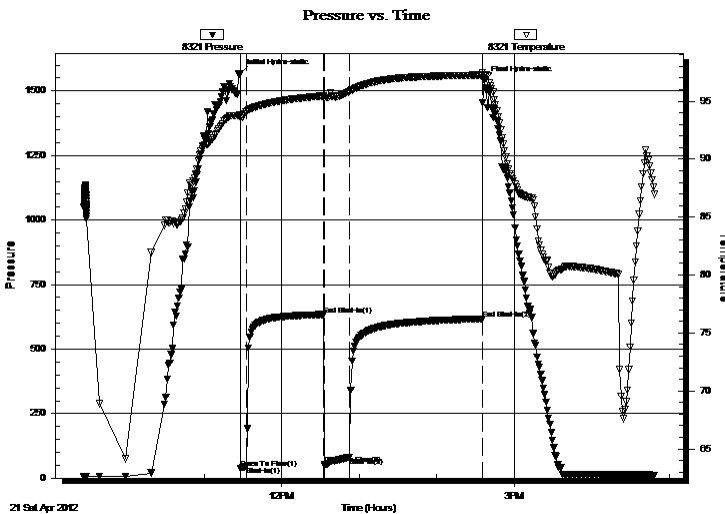
Start Time: 09:27:01 End Time: 16:49:00

Time On Btm: 2012.04.21 @ 11:28:00

Time Off Btm: 2012.04.21 @ 14:36:30

TEST COMMENT: IFP-5-min-Fair blow built to 4 in
ISI-60-min-Dead no blow back
FFP-20-min-Fair blow built to 10 in
FSI-90-min-Dead no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1568.10	93.83	Initial Hydro-static
1	37.00	93.56	Open To Flow (1)
5	45.73	94.10	Shut-In(1)
65	633.64	95.45	End Shut-In(1)
65	52.64	95.21	Open To Flow (2)
85	81.61	95.83	Shut-In(2)
187	617.40	97.25	End Shut-In(2)
189	1539.74	97.31	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
123.00	MW 40%M60%W	1.73

Gas Rates

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



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TOOL DIAGRAM

Samuel Gary, JR and Associates

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Dumler Trust 1-33

Job Ticket: 44780

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2012.04.21 @ 09:27:00

Tool Information

Drill Pipe:	Length: 3195.00 ft	Diameter: 3.80 inches	Volume: 44.82 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: 52000.00 lb
			<u>Total Volume: 44.82 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	34.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3195.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	47.00 ft			
Tool Length:	81.00 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	3161.00	
Stubb	5.00			3166.00	
Shut In Tool	5.00			3171.00	
Sampler	2.00			3173.00	
Hydraulic tool	5.00			3178.00	
Jars	5.00			3183.00	
Safety Joint	3.00			3186.00	
Packer	4.00			3190.00	34.00 Bottom Of Top Packer
Packer	5.00			3195.00	
Stubb	1.00			3196.00	
Perforations	3.00			3199.00	
Change Over Sub	1.00			3200.00	
Drill Pipe	31.00			3231.00	
Change Over Sub	1.00			3232.00	
Recorder	0.00	8321	Inside	3232.00	
Recorder	0.00	8737	Outside	3232.00	
Perforations	7.00			3239.00	
Bullnose	3.00			3242.00	47.00 Bottom Packers & Anchor

Total Tool Length: 81.00



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FLUID SUMMARY

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Dumler Trust 1-33

Job Ticket: 44780

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2012.04.21 @ 09:27:00

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:

ppm

Viscosity: 66.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.79 cm³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3300.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
123.00	MW 40%M60%W	1.725

Total Length: 123.00 ft Total Volume: 1.725 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 1600 MI of total fluid 240 PSI

200 MI of water

1400 MI of mud

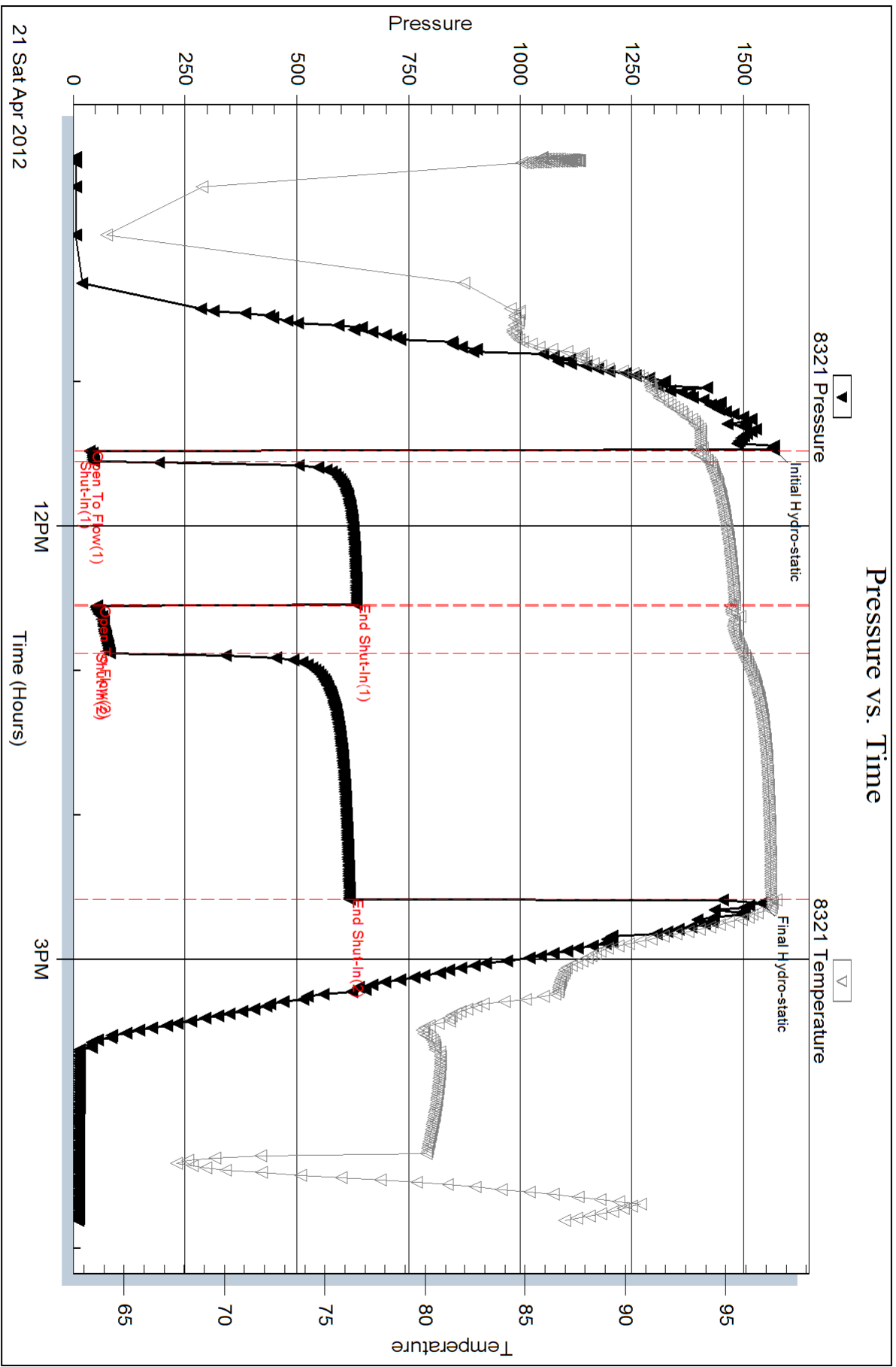
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Inside

Samuel Gary, JR and Associates

Dunbar Trust 1-33

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 44780

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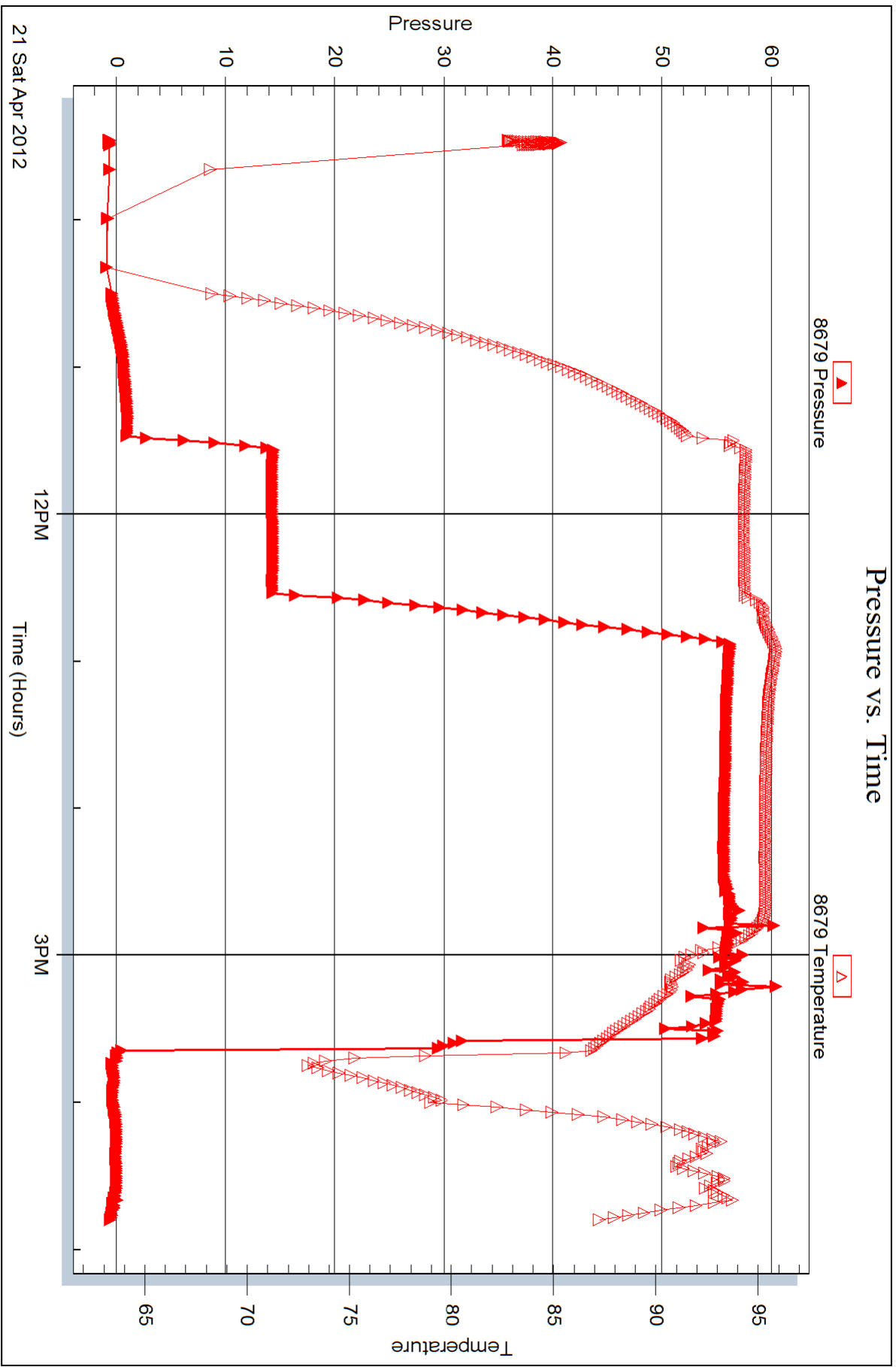
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Fluid

Samuel Gary, JR and Associates

Dumler Trust 1-33

DST Test Number: 1



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Ref. No: 44780

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Serial #: 8737

Outside Samuel Gary, JR and Associates

Dunler Trust 1-33

DST Test Number: 1

