



DRILL STEM TEST REPORT

Prepared For: **Samuel Gary Jr. and Associates Inc**

1515 Wynkoop, STE 700
Denver CO 80202

ATTN: Tom Fertal

J.A.E. et al #1-6

6-15s-17w Ellis,KS

Start Date: 2012.02.14 @ 19:45:38

End Date: 2012.02.15 @ 04:32:08

Job Ticket #: 46867 DST #: 1

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

Printed: 2012.02.16 @ 11:33:16



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Samuel Gary Jr. and Associates Inc

6-15s-17w Ellis,KS

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Denver CO 80202

J.A.E. et al #1-6

Job Ticket: 46867

DST#: 1

ATTN: Tom Fertal

Test Start: 2012.02.14 @ 19:45:38

GENERAL INFORMATION:

Formation: **KC "C-G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:16:38

Time Test Ended: 04:32:08

Test Type: Conventional Bottom Hole (Initial)

Tester: Brett Dickinson

Unit No: 59

Interval: 3301.00 ft (KB) To 3376.00 ft (KB) (TVD)

Reference Elevations: 1980.00 ft (KB)

Total Depth: 3376.00 ft (KB) (TVD)

1972.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6753

Inside

Press @ Run Depth: 211.49 psig @ 3302.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.02.14

End Date:

2012.02.15

Last Calib.:

2012.02.15

Start Time: 19:45:43

End Time:

04:32:08

Time On Btm:

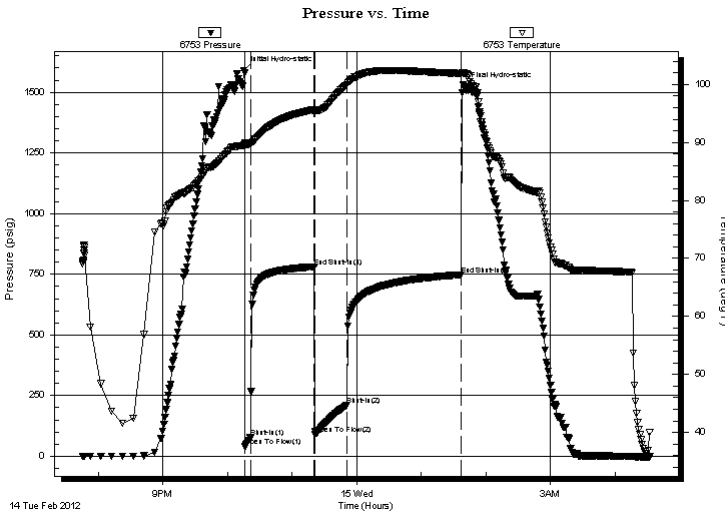
2012.02.14 @ 22:15:08

Time Off Btm:

2012.02.15 @ 01:39:38

TEST COMMENT: 5min-IF-4.5" blow
60min-ISI-No blow
30min-FF-5" blow
105min-FSI-No blow

PRESSURE SUMMARY



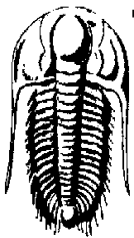
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1590.17	89.50	Initial Hydro-static
2	39.37	89.59	Open To Flow (1)
7	76.83	89.75	Shut-In (1)
66	781.23	95.65	End Shut-In (1)
67	90.58	95.46	Open To Flow (2)
96	211.49	100.01	Shut-In (2)
202	748.03	101.88	End Shut-In (2)
205	1523.41	101.92	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
375.00	Water	4.99
45.00	MCW 30%M 70%W	0.63

Gas Rates

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



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Job Ticket: 46867 **DST#: 1**

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Tester: Brett Dickinson

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Reference Elevations: 1980.00 ft (KB)

Total Depth: 3376.00 ft (KB) (TVD)

1972.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8319 Fluid

Press @ Run Depth: psig @ 3273.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.02.14

End Date:

2012.02.15

Last Calib.:

2012.02.15

Start Time: 19:45:09

End Time:

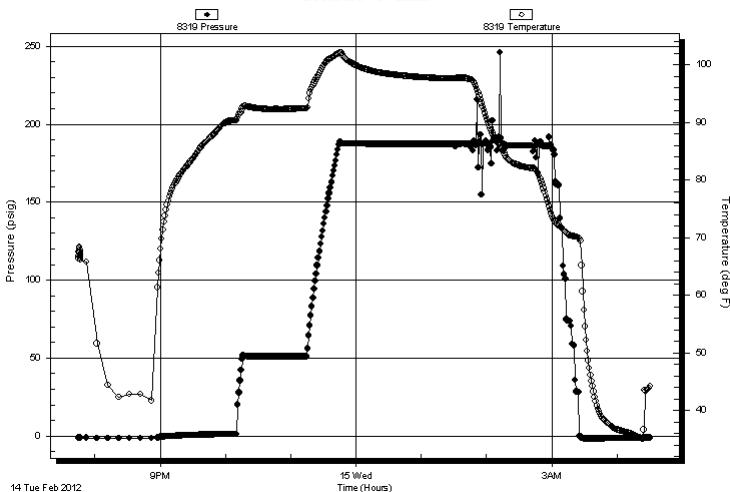
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Time On Btm:

Time Off Btm:

TEST COMMENT: 5min-IF-4.5" blow
60min-ISI-No blow
30min-FF-5" blow
105min-FSI-No blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
375.00	Water	4.99
45.00	MCW 30%M 70%W	0.63

Gas Rates

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



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TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary Jr. and Associates Inc

6-15s-17w Ellis,KS

1515 Wynkoop, STE 700
Denver CO 80202

J.A.E. et al #1-6

Job Ticket: 46867

DST#: 1

ATTN: Tom Fertal

Test Start: 2012.02.14 @ 19:45:38

Tool Information

Drill Pipe:	Length: 3251.00 ft	Diameter: 3.80 inches	Volume: 45.60 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 57000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3301.00 ft			Final 57000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	75.00 ft			
Tool Length:	108.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Drill Pipe	5.00			3273.00	
Recorder	0.00	8319	Fluid	3273.00	
Change Over Sub	1.00			3274.00	
Shut In Tool	5.00			3279.00	
Hydraulic tool	5.00			3284.00	
Jars	5.00			3289.00	
Safety Joint	2.00			3291.00	
Packer	5.00			3296.00	33.00 Bottom Of Top Packer
Packer	5.00			3301.00	
Stubb	1.00			3302.00	
Recorder	0.00	6753	Inside	3302.00	
Recorder	0.00	8369	Outside	3302.00	
Perforations	6.00			3308.00	
Change Over Sub	1.00			3309.00	
Drill Pipe	63.00			3372.00	
Change Over Sub	1.00			3373.00	
Bullnose	3.00			3376.00	75.00 Bottom Packers & Anchor
Total Tool Length:	108.00				



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FLUID SUMMARY

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J.A.E. et al #1-6

Job Ticket: 46867

DST#: 1

ATTN: Tom Fertal

Test Start: 2012.02.14 @ 19:45:38

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: 160000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
375.00	Water	4.987
45.00	MCW 30%M 70%W	0.631

Total Length: 420.00 ft Total Volume: 5.618 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

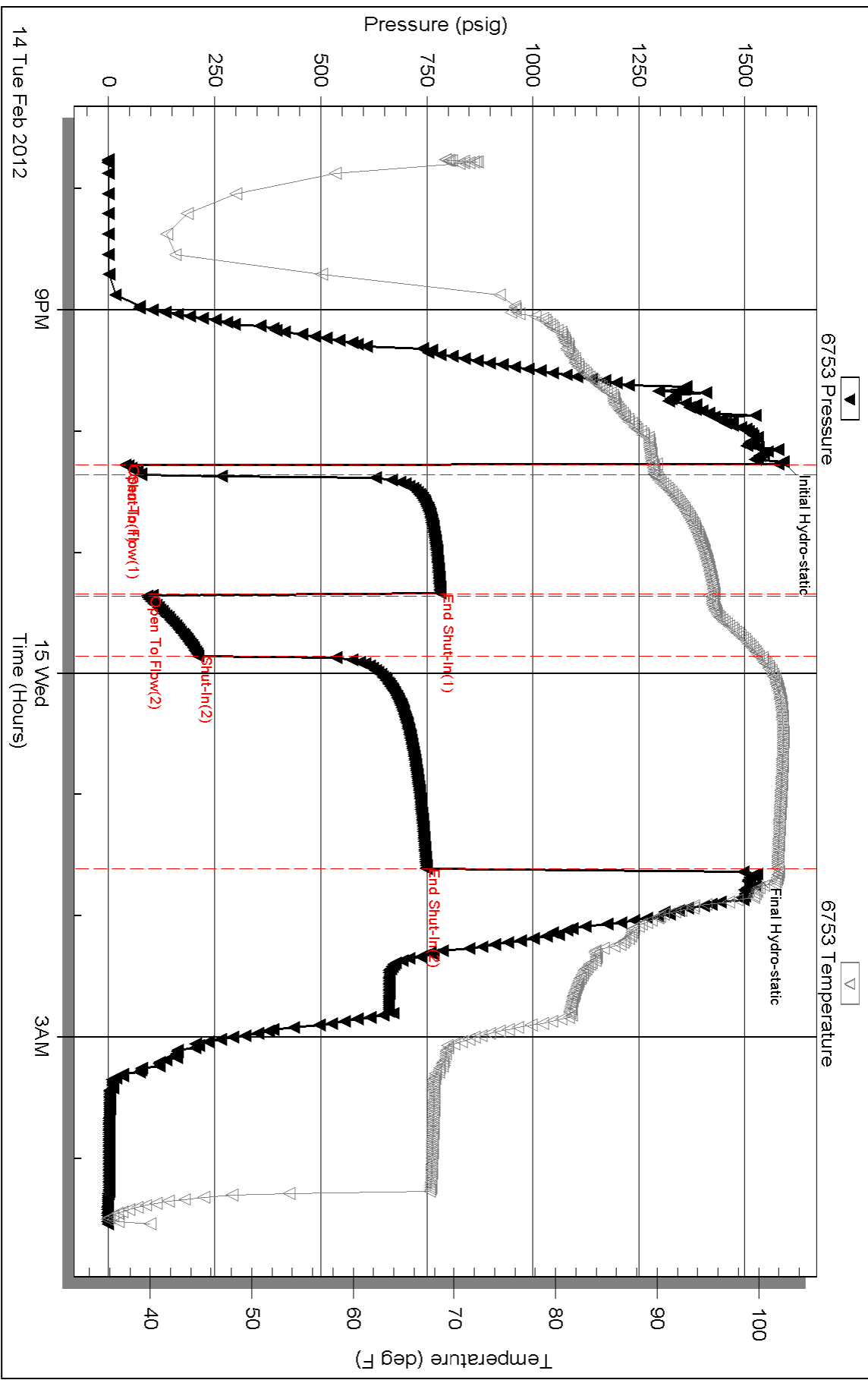
Laboratory Name:

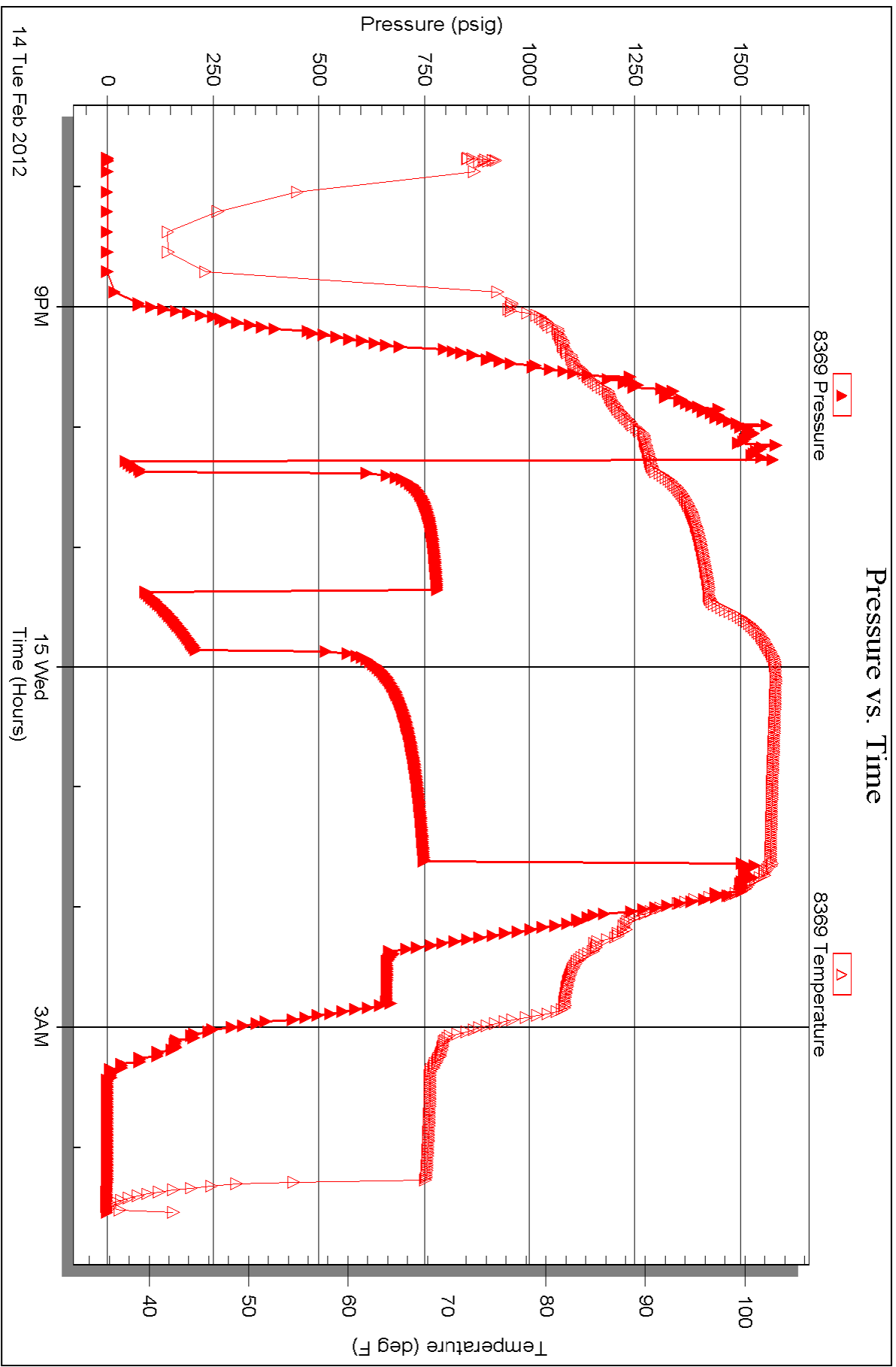
Laboratory Location:

Recovery Comments: RW .1 @ 40

Sampler Data 2750ml Water 250ml Mud

Pressure vs. Time





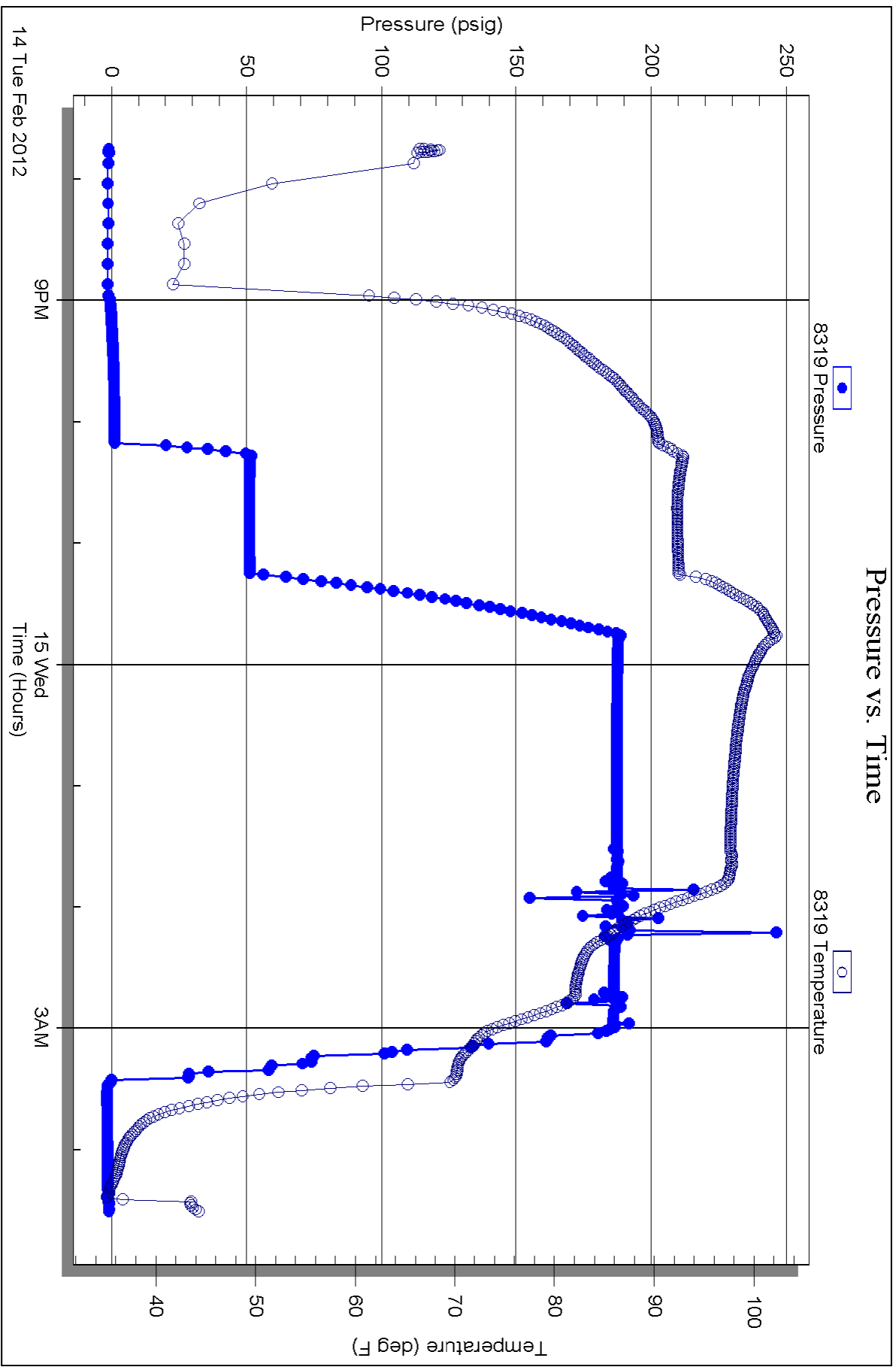
Serial #: 8319

Fluid

Samuel Gary Jr. and Associates Inc

J.A.E et al #1-6

DST Test Number: 1





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
FEB 16 2012

Test Ticket

NO. 46867

4/10

BY: _____

Well Name & No. J.A.E. et al #1-6 Test No. 1 Date 2/14/12
 Company Samuel Gary, Jr. and Associates Elevation 1980 KB 1972 GL _____
 Address 1515 Wynkoop, STE 200 Denver CO 80202
 Co. Rep / Geo. Tom Fertal Rig Discovery #2
 Location: Sec. 6 Twp. 15S Rge. 17W Co. Ellis State KS

Interval Tested 3301-3376 Zone Tested AC "C-G"
 Anchor Length 75 Drill Pipe Run _____ Mud Wt. 8.8
 Top Packer Depth 3296 Drill Collars Run 30 Vis 54
 Bottom Packer Depth 3301 Wt. Pipe Run _____ WL 6.8
 Total Depth 3376 Chlorides 3000 ppm System _____ LCM _____
 Blow Description IF-BOBIN 4 1/2 min
FSI- No blow
FF-BOBIN 5 min
FSI- No blow

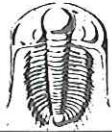
Rec	Feet of	%gas	%oil	%water	%mud
<u>375</u>	<u>water</u>				
<u>45</u>	<u>MCW</u>			<u>70</u>	<u>30</u>
_____	_____				
_____	_____				

Rec Total 420 BHT 101 Gravity _____ API RW .1 @ 40 °F Chlorides 160,000 ppm

(A) Initial Hydrostatic <u>1590</u>	<input checked="" type="checkbox"/> Test <u>1125'</u>	T-On Location <u>19:20</u>
(B) First Initial Flow <u>39</u>	<input checked="" type="checkbox"/> Jars <u>250'</u>	T-Started <u>19:45</u>
(C) First Final Flow <u>77</u>	<input checked="" type="checkbox"/> Safety Joint <u>75'</u>	T-Open <u>22:10</u>
(D) Initial Shut-In <u>781</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>1:30</u>
(E) Second Initial Flow <u>91</u>	<input type="checkbox"/> Hourly Standby <u>1/4 hr 25'</u>	T-Out <u>4:30</u>
(F) Second Final Flow <u>211</u>	<input checked="" type="checkbox"/> Mileage <u>10 x 2 28' x 2</u>	Comments <u>2116 9am loaded tools</u>
(G) Final Shut-In <u>748</u>	<input checked="" type="checkbox"/> Sampler <u>250'</u> <u>50'</u>	
(H) Final Hydrostatic <u>1523</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Initial Open <u>5</u>	<input checked="" type="checkbox"/> Extra Recorder <u>200'</u>	Sub Total <u>800'</u>
Initial Shut-In <u>60</u>	<input checked="" type="checkbox"/> Day Standby <u>2.8 hrs</u>	Total <u>2781'</u>
Final Flow <u>30</u>	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
Final Shut-In <u>105</u>	Sub Total <u>1981'</u>	

Approved By _____ Our Representative Brian Paul

Trilobite Testing Inc. shall not be liable for damaged or any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING, INC.

P.O. Box 362 • Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 46867 Date 2-14-12

Company Name Sam Gary Sr. & ASS.

Lease J.A.E. etal #1-6 Test No. 1

County Ellis Sec. 6 Twp. 15S Rng. 17W

SAMPLER RECOVERY

Gas _____ ML
 Oil _____ ML
 Mud 250 ML
 Water 2750 ML
 Other _____ ML
 Pressure 425 PSI ML
 Total 3000 ML

PIT MUD ANALYSIS

Chlorides 3,000 ppm.
 Resistivity _____ ohms @ _____ F
 Viscosity 54
 Mud Weight 8.8
 Filtrate 6.8
 Other _____

SAMPLER ANALYSIS

Resistivity .1 ohms @ 40 F
 Chlorides 160,000 ppm.
 Gravity _____ corrected @60F

PIPE RECOVERY

TOP
 Resistivity _____ ohms @ _____ F
 Chlorides _____ ppm.

MIDDLE
 Resistivity _____ ohms @ _____ F
 Chlorides _____ ppm.

BOTTOM
 Resistivity _____ ohms @ _____ F
 Chlorides _____ ppm.