



## DRILL STEM TEST REPORT

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

1515 Wynkoop St. Ste 700  
Denver, CO 80202

ATTN: Chris Mitchell

### **Sandra Leas #2-25**

### **25-25s-16w Ellis,KS**

Start Date: 2012.06.21 @ 04:31:47

End Date: 2012.06.21 @ 10:52:17

Job Ticket #: 47405                      DST #: 1

Trilobite Testing, Inc  
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Printed: 2012.06.27 @ 10:44:08



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Samuel Gary Jr & Associates, Inc.

**25-25s-16w Ellis,KS**

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Job Ticket: 47405

**DST#: 1**

Test Start: 2012.06.21 @ 04:31:47

## GENERAL INFORMATION:

Formation: **LKC "J-K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:50:17

Time Test Ended: 10:52:17

Test Type: Conventional Bottom Hole (Initial)

Tester: Brian Fairbank

Unit No: 41

**Interval: 3250.00 ft (KB) To 3312.00 ft (KB) (TVD)**

Reference Elevations: 1804.00 ft (KB)

Total Depth: 3312.00 ft (KB) (TVD)

1794.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

**Serial #: 6752**

**Inside**

Press @ Run Depth: 35.40 psig @ 3289.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.06.21

End Date:

2012.06.21

Last Calib.:

2012.06.21

Start Time:

04:31:48

End Time:

10:52:17

Time On Btm:

2012.06.21 @ 06:48:47

Time Off Btm:

2012.06.21 @ 09:14:17

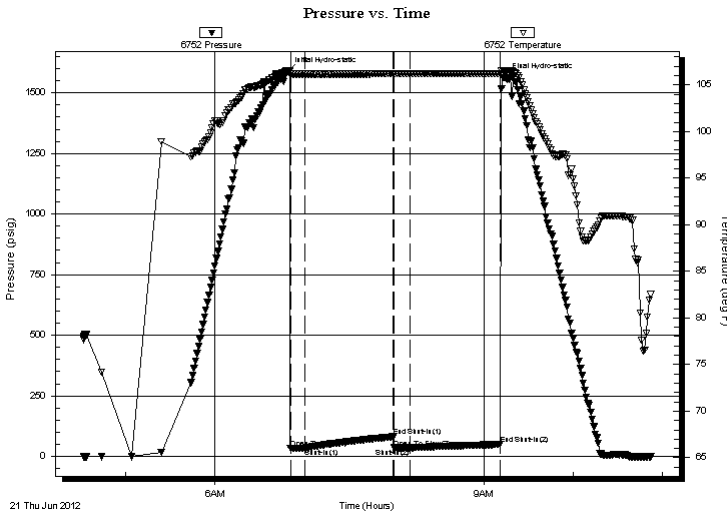
**TEST COMMENT:** 10 - IFP - sur blow - died 2 min

60 - ISI - no blow back

10 - FFP - no blow

60 - FSI - no blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1587.98	106.46	Initial Hydro-static
2	34.16	106.21	Open To Flow (1)
12	34.75	106.16	Shut-In(1)
71	81.10	106.21	End Shut-In(1)
71	35.41	106.19	Open To Flow (2)
82	35.40	106.20	Shut-In(2)
142	49.49	106.25	End Shut-In(2)
146	1561.92	106.50	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
2.00	drl mud 100%	0.03

## Gas Rates

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







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**TOOL DIAGRAM**

Samuel Gary Jr & Associates, Inc.

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Test Start: 2012.06.21 @ 04:31:47

## Tool Information

Drill Pipe:	Length: 3249.00 ft	Diameter: 3.80 inches	Volume: 45.57 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 80000.00 lb
			Total Volume: 45.57 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3250.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	62.00 ft			
Tool Length:	96.00 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	8365	Fluid	3216.00	
Blank Spacing	5.00			3221.00	
Shut In Tool	5.00			3226.00	
Sampler	2.00			3228.00	
Hydraulic tool	5.00			3233.00	
Jars	5.00			3238.00	
Safety Joint	2.00			3240.00	
Packer	5.00			3245.00	34.00 Bottom Of Top Packer
Packer	5.00			3250.00	
Stubb	1.00			3251.00	
Perforations	5.00			3256.00	
Change Over Sub	1.00			3257.00	
Blank Spacing	31.00			3288.00	
Change Over Sub	1.00			3289.00	
Recorder	0.00	6752	Inside	3289.00	
Recorder	0.00	6741	Outside	3289.00	
Perforations	20.00			3309.00	
Bullnose	3.00			3312.00	62.00 Bottom Packers & Anchor

**Total Tool Length: 96.00**



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**FLUID SUMMARY**

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**Sandra Leas #2-25**

Job Ticket: 47405

**DST#: 1**

ATTN: Chris Mitchell

Test Start: 2012.06.21 @ 04:31:47

## 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: 52.00 sec/qt

Cushion Volume:

bbf

Water Loss: 9.17 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4300.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbf
2.00	drl mud 100%	0.028

Total Length: 2.00 ft      Total Volume: 0.028 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

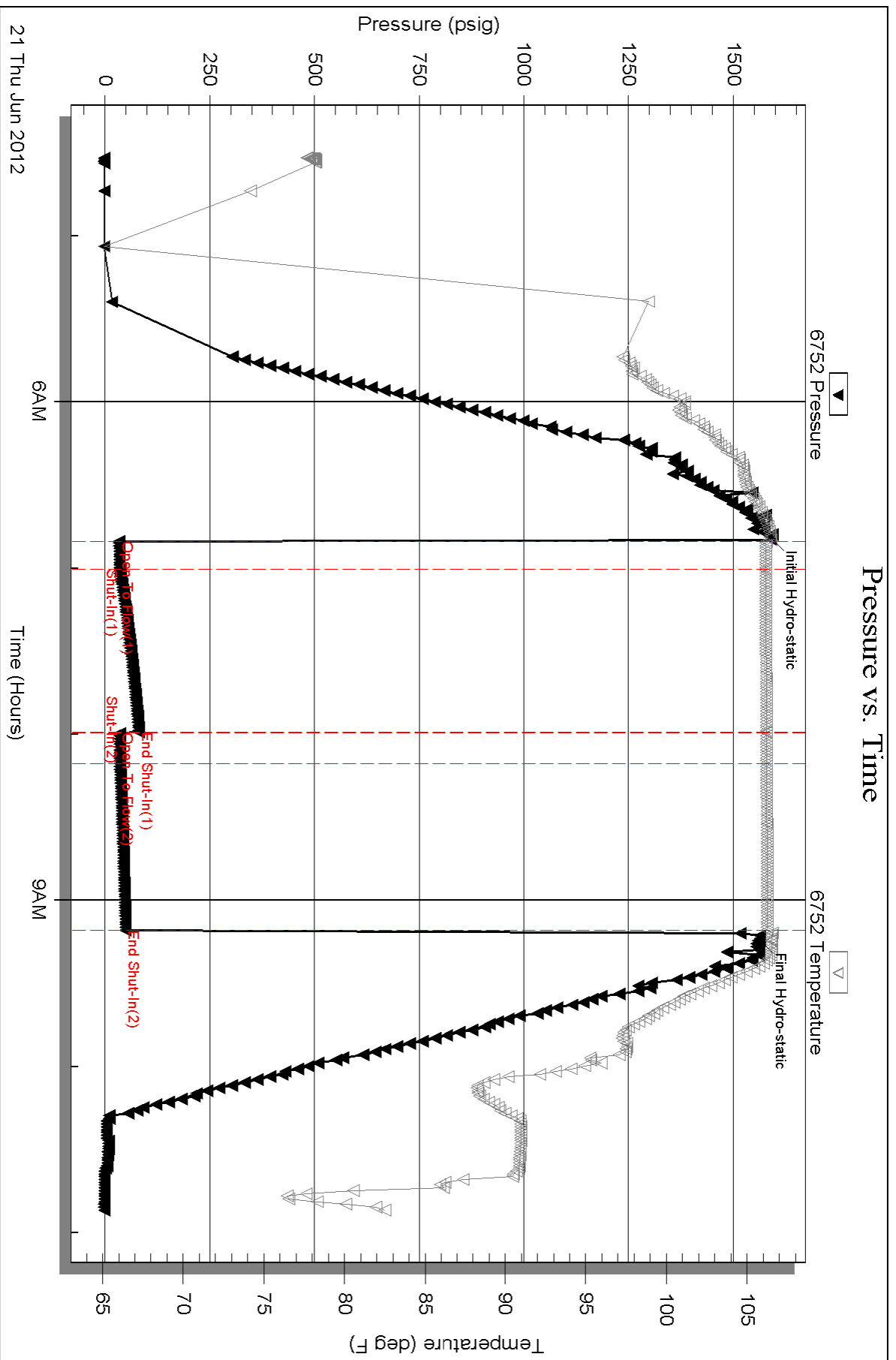
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: SAMPLER 4000mL mud 75psi

### Pressure vs. Time

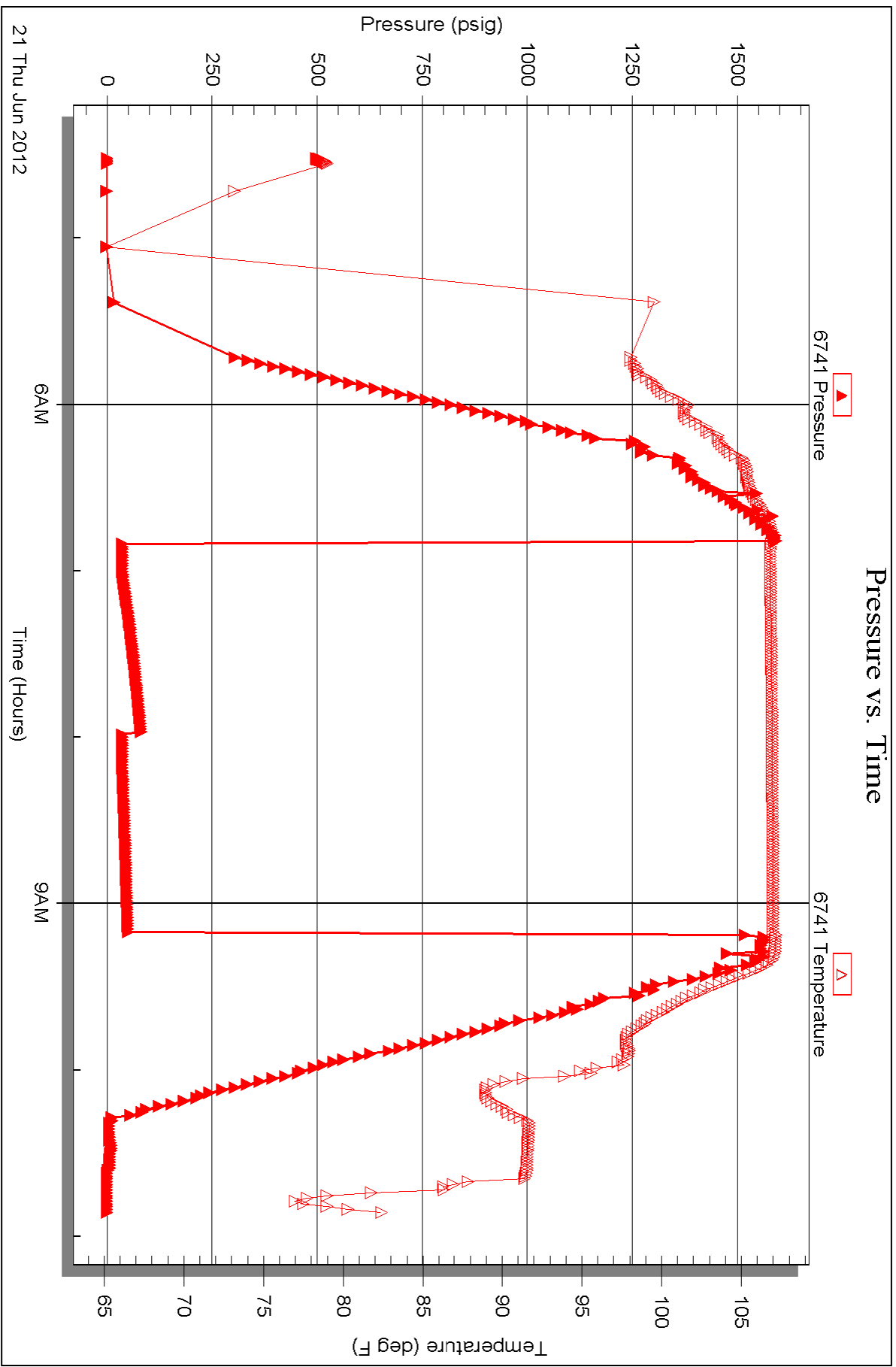


Serial #: 6741

Outside Samuel Gary Jr & Associates, Inc.

Sandra Leas #2-25

DST Test Number: 1





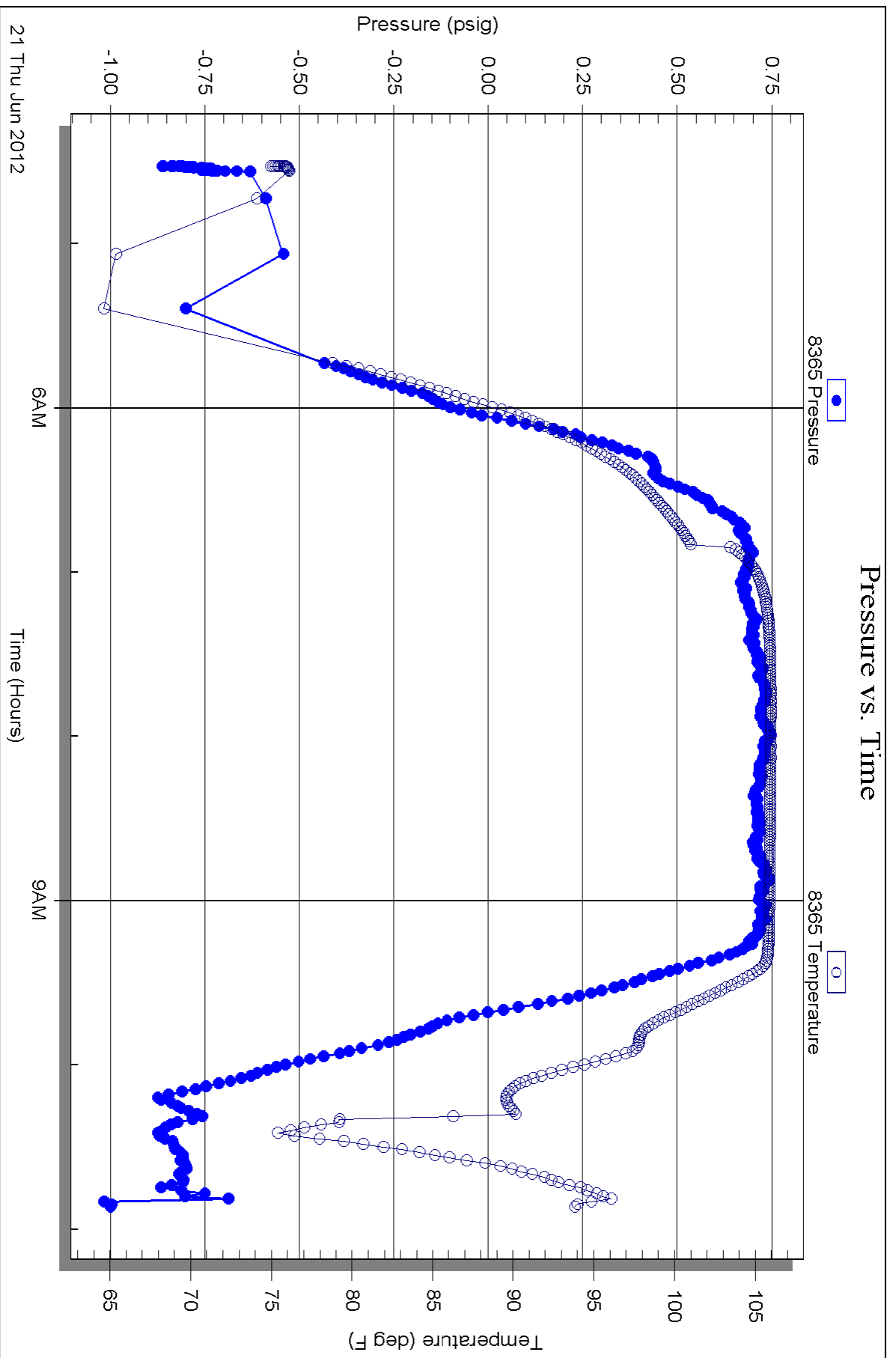
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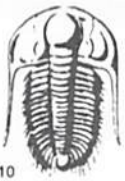
Fluid

Samuel Gary Jr & Associates, Inc.

Sandra Leas #2-25

DST Test Number: 1





# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 47405

Well Name & No. Sandra Leas 2-25 Test No. 1 Date 6-21-12  
 Company Samuel Gary Jr. + Ass. Elevation 1804 KB 1794 GL  
 Address 1515 Wynkoop St. Ste. 700 Denver, CO 80202  
 Co. Rep / Geo. Chris Mitchell Rig U-16  
 Location: Sec. 25 Twp. 15 Rge. 16 Co. Ellis State Kr

Interval Tested 3250-3312 Zone Tested LKC "J-K"  
 Anchor Length 62 Drill Pipe Run 3249 Mud Wt. 9.0  
 Top Packer Depth 3245 Drill Collars Run — Vis 52  
 Bottom Packer Depth 3250 Wt. Pipe Run — WL 9.2  
 Total Depth 3312 Chlorides 4300 ppm System LCM

Blow Description IIFP - sur blow - died 2 min  
ISI - no blow back  
FFP - no blow  
FSI - no blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>2</u>	<u>drl mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 2 BHT 106 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>1588</u>	<input checked="" type="checkbox"/> Test 1150	T-On Location <u>0342</u>
(B) First Initial Flow <u>34</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>0431</u>
(C) First Final Flow <u>35</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>0650</u>
(D) Initial Shut-In <u>81</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>0910</u>
(E) Second Initial Flow <u>35</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1052</u>
(F) Second Final Flow <u>35</u>	<input checked="" type="checkbox"/> Mileage <u>45RT</u> 139.50 x 2	Comments <u>mileage to load</u>
(G) Final Shut-In <u>50</u>	<input checked="" type="checkbox"/> Sampler 250	<u>tools 6-22-12</u>
(H) Final Hydrostatic <u>1562</u>	<input type="checkbox"/> Straddle	<u>1524</u>

Initial Open 10  Shale Packer  
 Initial Shut-In 60  Shale Packer  
 Final Flow 10  Extra Packer  
 Final Shut-In 60  Extra Recorder 200  
 Accessibility  
 Sub Total 2064.50

Sub Total 800  
 Total 2864.50  
 MP/DST Disc't

Approved By \_\_\_\_\_ Our Representative Brian Fairbank

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# TRILOBITE TESTING, INC.

P.O. Box 362 • Hays, Kansas 67601

## FLUID SAMPLER DATA

Ticket No. 47405 Date 6-21-12  
 Company Name Sam Gary  
 Lease Sandra Lee 2-25 Test No. 1  
 County Ellis Sec. 25 Twp. 15 Rng. 16

### SAMPLER RECOVERY

Gas \_\_\_\_\_ ML  
 Oil ~~4000~~ \_\_\_\_\_ ML  
 Mud 4000 \_\_\_\_\_ ML  
 Water \_\_\_\_\_ ML  
 Other \_\_\_\_\_ ML  
 Pressure 75 \_\_\_\_\_ ML  
 Total 4000 \_\_\_\_\_ ML

### PIT MUD ANALYSIS

Chlorides 4300 \_\_\_\_\_ ppm.  
 Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
 Viscosity 52 \_\_\_\_\_  
 Mud Weight 9.0 \_\_\_\_\_  
 Filtrate 9.2 \_\_\_\_\_  
 Other \_\_\_\_\_

### SAMPLER ANALYSIS

Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
 Chlorides \_\_\_\_\_ ppm.  
 Gravity \_\_\_\_\_ corrected @60F

### PIPE RECOVERY

**TOP**  
 Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
 Chlorides \_\_\_\_\_ ppm.

**MIDDLE**  
 Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
 Chlorides \_\_\_\_\_ ppm.

**BOTTOM**  
 Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
 Chlorides \_\_\_\_\_ ppm.