



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1169122  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed  
Form must be Signed  
All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well       Re-Entry       Workover
- Oil       WSW       SWD       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic       Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

- Deepening       Re-perf.       Conv. to ENHR       Conv. to SWD
- Plug Back       Conv. to GSW       Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_-\_\_\_\_\_-\_\_\_\_\_- Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx)      (e.g. -xxx.xxxxx)

Datum:  NAD27       NAD83       WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



1169122

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No  List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
--	---

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR: \_\_\_\_\_ Producing Method:  
 Flowing  Pumping  Gas Lift  Other *(Explain)* \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
--	---	---

Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	DONALD 1-21
Doc ID	1169122

All Electric Logs Run

DEN-NEUT
INDUCTION
MICRO
SONIC
SPECTRAL

Conservation Division  
Finney State Office Building  
130 S. Market, Rm. 2078  
Wichita, KS 67202-3802



Phone: 316-337-6200  
Fax: 316-337-6211  
<http://kcc.ks.gov/>

Mark Sievers, Chairman  
Thomas E. Wright, Commissioner  
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

November 20, 2013

CLAYTON CAMOZZI  
Samuel Gary Jr. & Associates, Inc.  
1515 WYNKOOP, STE 700  
DENVER, CO 80202

Re: ACO1  
API 15-051-26571-00-00  
DONALD 1-21  
SW/4 Sec.21-12S-16W  
Ellis County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,  
CLAYTON CAMOZZI



**QUALITY OILWELL CEMENTING, INC.**  
 PO Box 32 - 740 West Wichita Ave, Russell KS 67665  
 Phone: 785-324-1041 fax: 785-483-1087  
 Email: cementing@ruraltel.net

Date: 8/5/2013  
 Invoice # 7436

P.O.#:

Due Date: 9/4/2013

Division: Russell

# Invoice

**Contact:**

Samuel Gary Jr & Associates Inc  
 Address/Job Location:  
 Samuel Gary Jr & Associates Inc  
 1815 11th Street  
 Great Bend, KS 67530

DRLG  COMP  W/O  LOE  GG

Account	8200-138
Well/Prospect	
Deck	
AFE	<i>[Signature]</i>
Approval	
Description	

**RECEIVED**

**AUG 14 2013**

**SAMUEL GARY JR.  
& ASSOCIATES, INC.**

**Reference:**

DONALD 1-21

**Description of Work:**

LONG SURFACE JOB

**Services / Items Included:**

	Quantity	Price	Taxable
Labor		\$ 991.39	No
Common-Class A	350	\$ 4,765.20	Yes
8 5/8" Basket	3	\$ 1,029.26	Yes
Bulk Truck Matl-Material Service Charge	370	\$ 803.43	No
Calcium Chloride	13	\$ 672.69	Yes
Pump Truck Mileage-Job to Nearest Camp	24	\$ 260.05	No
8 5/8" Centralizer	3	\$ 208.46	Yes
Bulk Truck Mileage-Job to Nearest Bulk Plant	24	\$ 152.17	No
Premium Gel (Bentonite)	7	\$ 123.73	Yes
8 5/8" Top Rubber Plug	1	\$ 115.09	Yes
Baffle Plate Aluminum, 8 5/8"	1	\$ 97.71	Yes

Item Quantity Price Taxable

**Invoice Terms:**

Net 30

SubTotal: \$ 9,219.17

Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (1,382.88)

SubTotal for Taxable Items: \$ 5,960.31

SubTotal for Non-Taxable Items: \$ 1,875.98

Total: \$ 7,836.29

Tax: \$ 366.56

6.15% Ellis County Sales Tax

**Thank You For Your Business!**

**Amount Due: \$ 8,202.85**

**Applied Payments:**

**Balance Due: \$ 8,202.85**

Past Due Invoices are subject to a service charge (annual rate of 24%)

This does not include any applicable taxes unless it is listed.

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# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 7436

Date	Sec.	Twp.	Range	County	State	On Location	Finish
8-5-13	21	12	16	Ellis	KS		1:45 PM

Location *Blue Hill school, 1/2 S, W n 2*

Lease <i>Donald</i>	Well No. <i>1-21</i>	Owner
Contractor <i>Discovery</i>		To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Type Job <i>Surface</i>		
Hole Size <i>12 1/4</i>	T.D. <i>859</i>	Charge To <i>Sam Gary Jr &amp; Associates</i>
Csg. <i>8 5/8</i>	Depth	Street
Tbg. Size	Depth	City State
Tool	Depth	The above was done to satisfaction and supervision of owner agent or contractor.
Cement Left in Csg. <i>42.01</i>	Shoe Joint <i>42.01</i>	Cement Amount Ordered <i>350 sx com 3% cc 2% gel</i>
Meas Line	Displace <i>52.661</i>	

**EQUIPMENT**

Pumptrk <i>15</i> No.	Cementer Helper <i>Nick</i>	Common <i>350</i>
Bulktrk <i>13</i> No.	Driver <i>Lonnie M.</i>	Poz. Mix
Bulktrk <i>P4</i> No.	Driver <i>Travis</i>	Gel. <i>7</i>
		Calcium <i>13</i>

**JOB SERVICES & REMARKS**

Remarks: <i>Cement did circulate</i>	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal
Centralizers <i>1,5,18</i>	Kol-Seal
Baskets <i>2,6,19</i>	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38

Handling <i>370</i>
Mileage

**FLOAT EQUIPMENT**

Guide Shoe
Centralizer <i>3</i>
Baskets <i>3</i>
AFU Inserts
Float Shoe
Latch Down
<i>1 baffle plate</i>
<i>1 Rubber plug</i>
Pumptrk Charge <i>Long Surface</i>
Mileage <i>24</i>

Tax
Discount
Total Charge

X Signature *[Signature]*



**QUALITY OILWELL CEMENTING, INC.**  
 PO Box 32 - 740 West Wichita Ave, Russell KS 67665  
 Phone: 785-324-1041 fax: 785-483-1087  
 Email: cementing@ruraltel.net

Date: 8/11/2013  
 Invoice # 7444

P.O.#:  
 Due Date: 9/10/2013  
 Division: Russell

# Invoice

**RECEIVED**

**AUG 28 2013**

**SAMUEL GARY JR.  
& ASSOCIATES, INC.**

**Contact:**  
 Samuel Gary Jr & Associates Inc  
**Address/Job Location:**  
 Samuel Gary Jr & Associates Inc  
 1815 11th Street  
 Great Bend, KS 67530

**Reference:**  
~~11-21-29 H-1~~ Donald 1-21

**Description of Work:**  
 CIRCULATE CEMENT

ORLG  COMP  W/O  LOE  GG

Account	8300-217
Sub Prospect	
Approval	<i>[Signature]</i>
Description	

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 963.85	No	Salt (Fine)	19	\$279.98	Yes
Common-Class A	225	\$ 3,562.50	Yes	Pump Truck Mileage-Job to Nearest Camp	24	\$252.83	No
5 1/2" Basket	5	\$ 1,815.56	Yes	Latch Down Plug & Baffle, 5 1/2"	1	\$236.44	Yes
Gilsonite	1057	\$ 1,673.58	Yes	Bulk Truck Mileage-Job to Nearest Bulk Plant	24	\$147.95	No
CFL 117	176	\$ 1,144.39	Yes	Flo Seal	56	\$118.22	Yes
5 1/2" Turbolizer	9	\$ 551.00	Yes	KCL	2	\$63.04	Yes
Bulk Truck Matl-Material Service Charge	254	\$ 536.22	No	Rotating Head (4 1/2", 5 1/2", or 2 7/8")	1	\$38.00	No
CD-110	117	\$ 494.00	Yes				
Mud Clear	500	\$ 390.56	Yes				
Defoamer A or CAF-38	50	\$ 369.44	Yes				
Auto Fill Float Shoe, 5 1/2"	1	\$ 323.00	Yes				

**Invoice Terms:**

Net 30

SubTotal:	\$ 12,960.55
Discount Available <u>ONLY</u> if Invoice is Paid & Received within listed terms of invoice:	\$ (1,944.08)
SubTotal for Taxable Items:	\$ 9,368.45
SubTotal for Non-Taxable Items:	\$ 1,648.02
Total:	\$ 11,016.47
Tax:	\$ 576.16

6.15% Ellis County Sales Tax

**Thank You For Your Business!**

**Amount Due: \$ 11,592.63**  
**Applied Payments:**  
**Balance Due: \$ 11,592.63**

Past Due Invoices are subject to a service charge (annual rate of 24%)  
 This does not include any applicable taxes unless it is listed.  
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# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 7444

Date	8-11-13	Sec.	21	Twp.	12	Range	16	County	Ellis	State	KS	On Location		Finish	8:00 PM
Location													Blue hill school 1/2 S W n 2		

Lease	Donald	Well No.	1-21	Owner	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.	
Contractor	Discovery 2				Charge To	Sam Gary JR. & Associates
Type Job	long string	T.D.	3600	Street		
Hole Size	7 7/8	Depth	3596.37	City	State	
Csg.	5 1/2 15.5 #	The above was done to satisfaction and supervision of owner agent or contractor.				
Tbg. Size		Depth		Cement Amount Ordered	225sx Q pro-c 10% salt	
Tool		Shoe Joint	42.44	5% gilsonite 1/4 # flow	2066l KCL, 500gal Mud CLR	
Cement Left in Csg.	42.44	Displace	84.666l	Common	225	

**EQUIPMENT**

Pumptrk	5	No.	Cementer		Poz. Mix
			Helper	Matt	
Bulktrk	14	No.	Driver		Gel.
			Driver	Doug	
Bulktrk	PU	No.	Driver		Calcium
			Driver	Travis	CD-110 - 117 #

**JOB SERVICES & REMARKS**

Remarks:		Hulls	KCL - 2 gal
Rat Hole	30 sx	Salt	19
Mouse Hole	15 sx	Flowseal	56 #
Centralizers	1, 3, 5, 7, 9, 11, 13, 15, 60	Kol-Seal	1057 #
Baskets	4, 10, 16, 58, 72	Mud CLR 48	500 gal
D/V or Port Collar	PC at top of 59	CFL-117 or CD110 CAF 38	50 #
Pipe on bottom broke circulation pumped 500gal Mud CLR 48 with 1066l fw behind it		Sand	176 #
Plug Rat hole with 30 sx and mouse hole with 15 sx. Hooked to 5 1/2 mixed 180 sx Q pro-c 10% salt 5% gilsonite 1/4 # flow. Shut down washed pump and lines Released plug and displaced with 2066l KCL and 54 1/2 66l fw plug landed and held		Handling	254
lift pressure 900 # psi		Mileage	

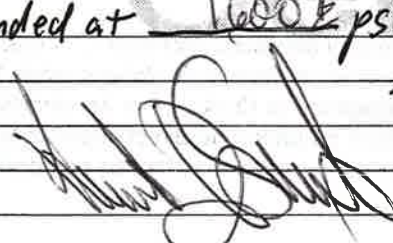
**FLOAT EQUIPMENT**

Guide Shoe	
Centralizer	9 turbos
Baskets	5 wetherford
AFU Inserts	
Float Shoe	1 with ball
Latch Down	1 with plug

Plug landed at	1600 # psi	Pumptrk Charge	prod long string
		Mileage	24

X Signature		Tax	
		Discount	
		Total Charge	

*Thanks*







**QUALITY OILWELL CEMENTING, INC.**  
 PO Box 32 - 740 West Wichita Ave, Russell KS 67665  
 Phone: 785-324-1041 fax: 785-483-1087  
 Email: cementing@ruraltel.net

Date: 8/20/2013  
 Invoice # 7450  
 P.O.#:  
 Due Date: 9/19/2013  
 Division: Russell

# Invoice

**Contact:**  
 Samuel Gary Jr & Associates Inc  
**Address/Job Location:**  
 Samuel Gary Jr & Associates Inc  
 1815 11th Street  
 Great Bend, KS 67530

**Reference:**  
 DONALD 1-21

**Description of Work:**  
 PLUG JOB

**RECEIVED**

**AUG 28 2013**

**SAMUEL GARY JR.  
 & ASSOCIATES, INC.**

DRLG  COMP  W/O  LOE  GG

Account	8200.145
Well/Prospect	
Deck	
AFE	
Approval	WJ
Description	

Services / Items Included:	Quantity	Price	Taxable
Labor		\$ 1,020.55	Yes
Common-Class A	135	\$ 2,263.24	Yes
POZ Mix-Standard	90	\$ 633.71	Yes
Cottonseed Hulls	10	\$ 558.82	Yes
Bulk Truck Mat-Material Service Charge	233	\$ 520.82	Yes
Pump Truck Mileage-Job to Nearest Camp	19	\$ 211.93	Yes
Premium Gel (Bentonite)	8	\$ 145.56	Yes
Bulk Truck Mileage-Job to Nearest Bulk Plant	19	\$ 124.01	Yes

Item	Quantity	Price	Taxable
------	----------	-------	---------

**Invoice Terms:**

Net 30

SubTotal:	\$	5,478.64
Discount Available <u>ONLY</u> if Invoice is Paid & Received within listed terms of invoice:	\$	(821.80)
<hr/>		
SubTotal for Taxable Items:	\$	4,656.84
SubTotal for Non-Taxable Items:	\$	-
<hr/>		
Total:	\$	4,656.84
Tax:	\$	286.40
<hr/>		
<b>Amount Due:</b>	<b>\$</b>	<b>4,943.24</b>
<b>Applied Payments:</b>		
<b>Balance Due:</b>	<b>\$</b>	<b>4,943.24</b>

6.15% Ellis County Sales Tax

**Thank You For Your Business!**

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# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 7450

Date	8-20-13	Sec.		Twp.		Range		County	Ellis	State	KS	On Location		Finish	4:15pm
								Location Blue hill school 1/2 S Wn 2							
Lease Donald				Well No. 1-21				Owner				To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Contractor								Charge To				Sam Gary Jr.			
Type Job Plug				T.D.				Street							
Hole Size 7 7/8				Depth				City				State			
Csg. 5 1/2				Depth				The above was done to satisfaction and supervision of owner agent or contractor.							
Tbg. Size				Depth				Cement Amount Ordered				225sx 60/40 4% gel 400#			
Tool				Depth				Meas Line				Displace			
Cement Left in Csg.				Shoe Joint				Hulls							
EQUIPMENT								Common 135							
Pumptrk 5 No. Cementer				Helper Lonnie W.				Poz. Mix				90			
Bulktrk 13 No. Driver				Driver Lonnie M.				Gel.				8			
Bulktrk P4 No. Driver				Driver Travis				Calcium							
JOB SERVICES & REMARKS								Hulls 500#							
Remarks:								Salt							
Rat Hole								Flowseal							
Mouse Hole								Kol-Seal							
Centralizers								Mud CLR 48							
Baskets								CFL-117 or CD110 CAF 38							
D/V or Port Collar								Sand							
50 SX 150# Hulls at 1185								Handling 233							
30 SX 100# Hulls at 910								Mileage							
70 SX 200# Hulls at 680								FLOAT EQUIPMENT							
80 SX 250# Hulls at 250 to circulate								Guide Shoe							
5 SX to top off								Centralizer							
								Baskets							
								AFU Inserts							
								Float Shoe							
								Latch Down							
								Pumptrk Charge plug							
								Mileage 19							
								Tax							
								Discount							
								Total Charge							
X Signature				Karl D. [Signature]											



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates, Inc.

21-12-16 Ellis, KS

1515 Wynkoop, Ste 700  
Denver, CO 80202

Donald 1-21

Job Ticket: 50822

DST#: 1

ATTN: Chris Mitchell

Test Start: 2013.08.08 @ 16:15:00

## GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:55:00

Time Test Ended: 22:24:00

Test Type: (Initial)

Tester: Brannan L

Unit No: 67

Interval: **3182.00 ft (KB) To 3246.00 ft (KB) (TVD)**

Reference Elevations: 2017.00 ft (KB)

Total Depth: 3246.00 ft (KB) (TVD)

2009.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

## Serial #: 8679

## Fluid

Press @ Run Depth: 190.04 psig @ 3147.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.08.08

End Date: 2013.08.08

Last Calib.: 2013.08.08

Start Time: 16:15:01

End Time: 22:24:00

Time On Btm: 2013.08.08 @ 17:54:30

Time Off Btm: 2013.08.08 @ 20:23:30

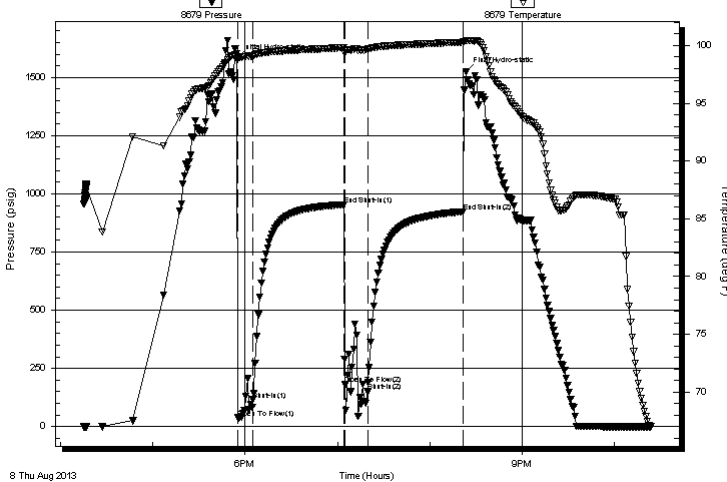
## TEST COMMENT: 10- IF- .5"

60- IS- No blow

15- FF- No blow

60- FSI- No blow

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1581.64	99.28	Initial Hydro-static
1	37.22	98.88	Open To Flow (1)
11	114.30	99.11	Shut-In(1)
70	953.37	99.82	End Shut-In(1)
71	180.10	99.61	Open To Flow (2)
86	190.04	99.68	Shut-In(2)
147	923.73	100.29	End Shut-In(2)
149	1523.43	100.45	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	M, 100%M	0.07

## Gas Rates

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







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Samuel Gary Jr. & Associates, Inc.

**21-12-16 Ellis, KS**

1515 Wynkoop, Ste 700  
Denver, CO 80202

**Donald 1-21**

Job Ticket: 50822

**DST#: 1**

ATTN: Chris Mitchell

Test Start: 2013.08.08 @ 16:15:00

### 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: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in<sup>3</sup>

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 bbl
5.00	M, 100%M	0.070

Total Length: 5.00 ft      Total Volume: 0.070 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler: 2000mLM@220PSI

Serial #: 8679

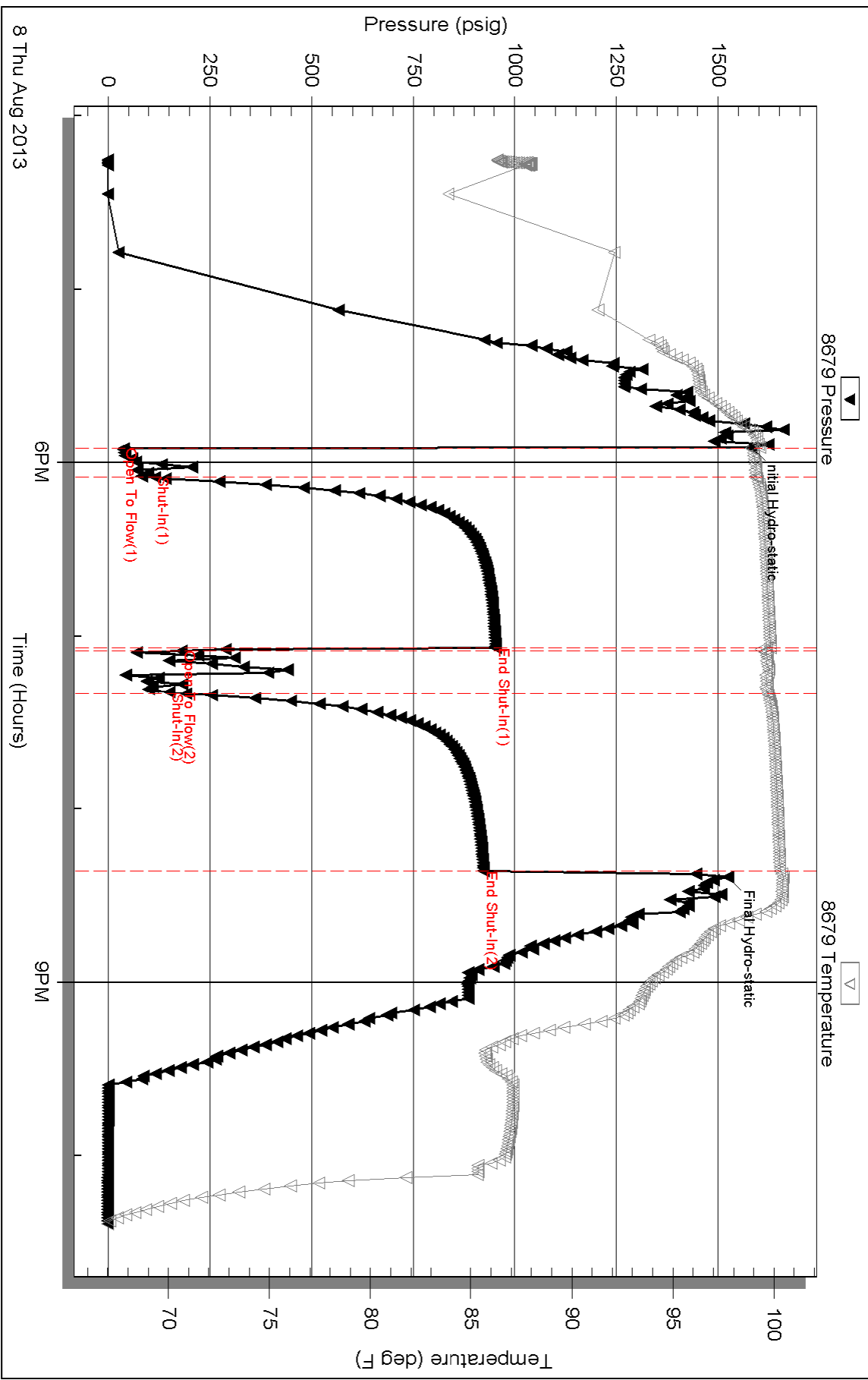
Fluid

Samuel Gary Jr. & Associates, Inc.

Donald 1-21

DST Test Number: 1

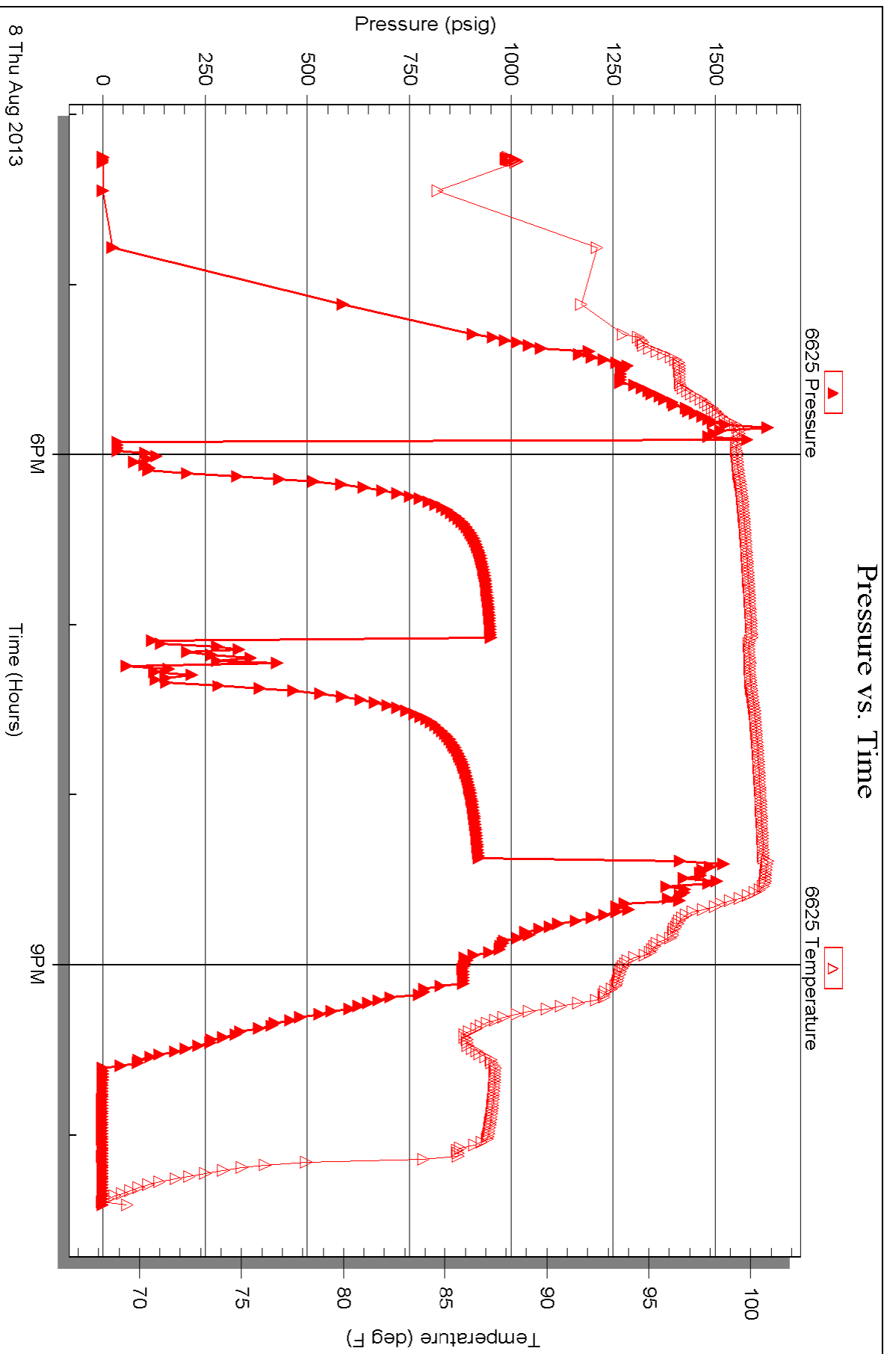
### Pressure vs. Time



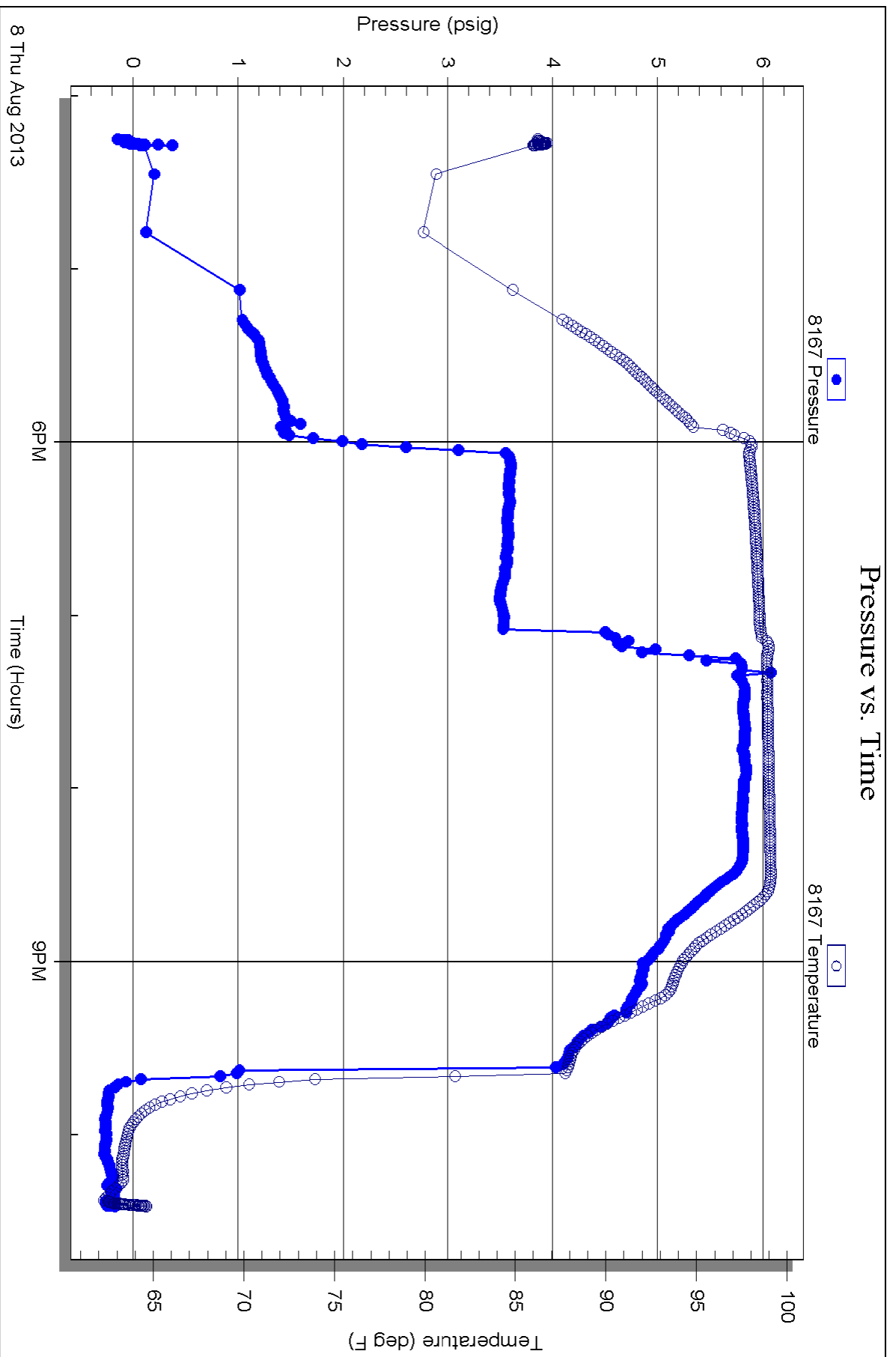
Triobite Testing, Inc

Ref. No: 50822

Printed: 2013.08.09 @ 05:54:18









**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates, Inc.

**21-12-16 Ellis, KS**

1515 Wynkoop, Ste 700  
Denver, CO 80202

**Donald 1-21**

Job Ticket: 50823

**DST#: 2**

ATTN: Chris Mitchell

Test Start: 2013.08.09 @ 13:39:00

## GENERAL INFORMATION:

Formation:

Deviated: No Whipstock: ft (KB)

Test Type: (Reset)

Time Tool Opened: 15:04:30

Tester: Brannan L

Time Test Ended: 19:07:00

Unit No: 67

**Interval: 3278.00 ft (KB) To 3358.00 ft (KB) (TVD)**

Reference Elevations: 2017.00 ft (KB)

Total Depth: 3358.00 ft (KB) (TVD)

2009.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

## Serial #: 8679

## Fluid

Press @ Run Depth: 40.44 psig @ 3243.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.08.09

End Date:

2013.08.09

Last Calib.:

2013.08.09

Start Time: 13:39:01

End Time:

19:07:00

Time On Btm:

2013.08.09 @ 15:02:30

Time Off Btm:

2013.08.09 @ 17:31:00

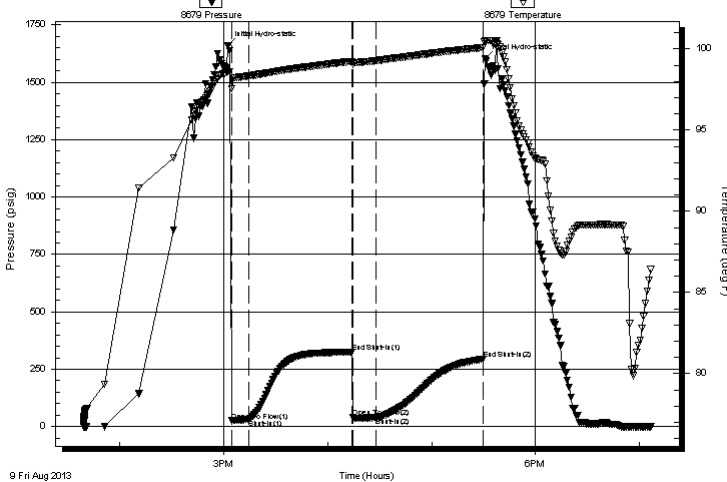
TEST COMMENT: 10- IF- .75"

60- IS- No blow

15- FF- No blow

60- FSI- No blow

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1659.22	98.59	Initial Hydro-static
2	25.42	97.54	Open To Flow (1)
12	31.21	98.34	Shut-In(1)
72	325.33	99.24	End Shut-In(1)
72	39.47	99.06	Open To Flow (2)
86	40.44	99.28	Shut-In(2)
147	294.11	100.07	End Shut-In(2)
149	1601.79	100.52	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	M, 100%M	0.05

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Samuel Gary Jr. & Associates, Inc.

**21-12-16 Ellis, KS**

1515 Wynkoop, Ste 700  
Denver, CO 80202

**Donald 1-21**

Job Ticket: 50823

**DST#: 2**

ATTN: Chris Mitchell

Test Start: 2013.08.09 @ 13:39:00

### 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: 52.00 sec/qt

Cushion Volume: bbl

Water Loss: 8.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 3500.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	M, 100%M	0.049

Total Length: 10.00 ft      Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler: 2000mLM@150PSI

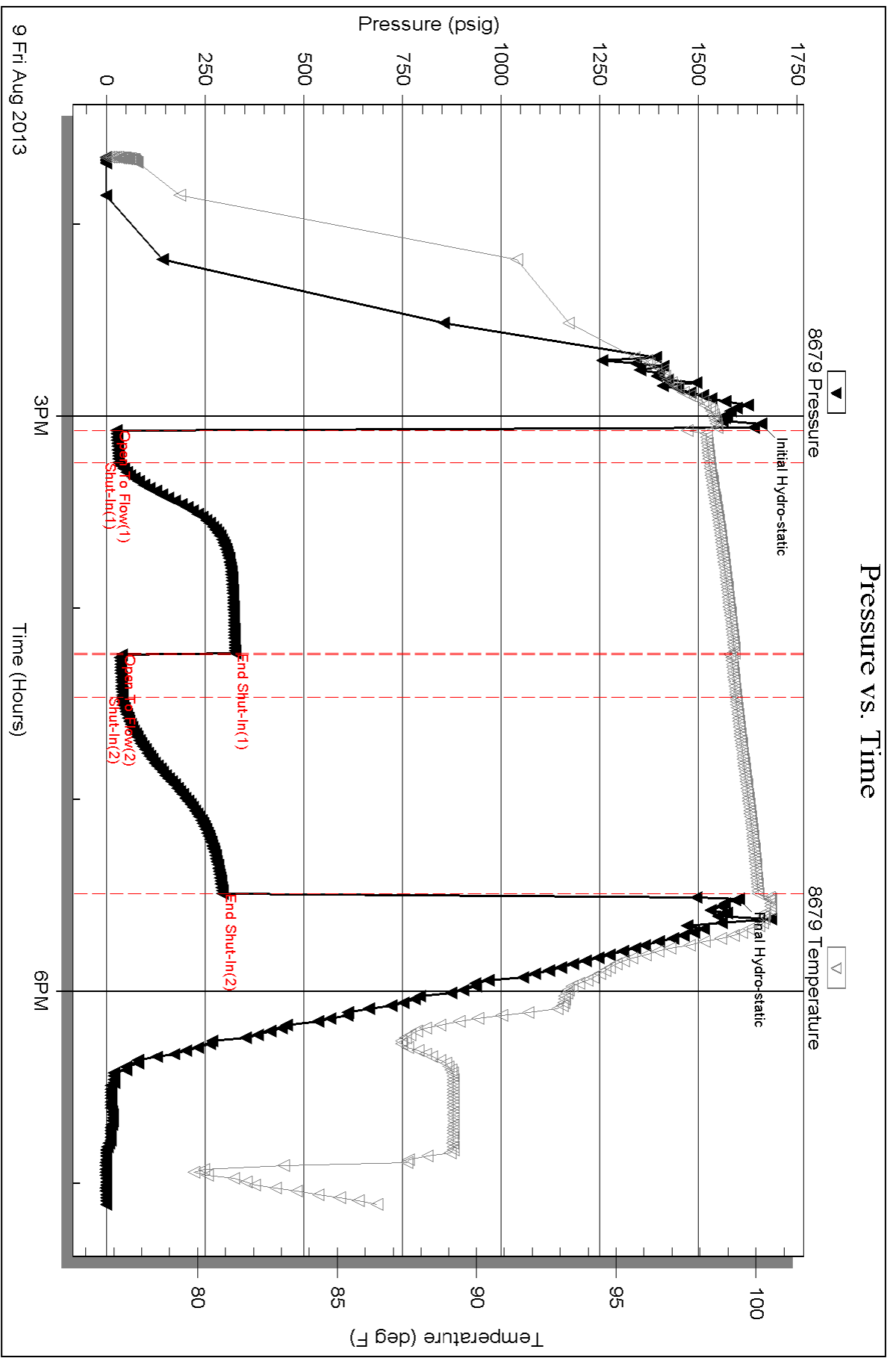
Serial #: 8679

Fluid

Samuel Gary Jr. & Associates, Inc.

Donald 1-21

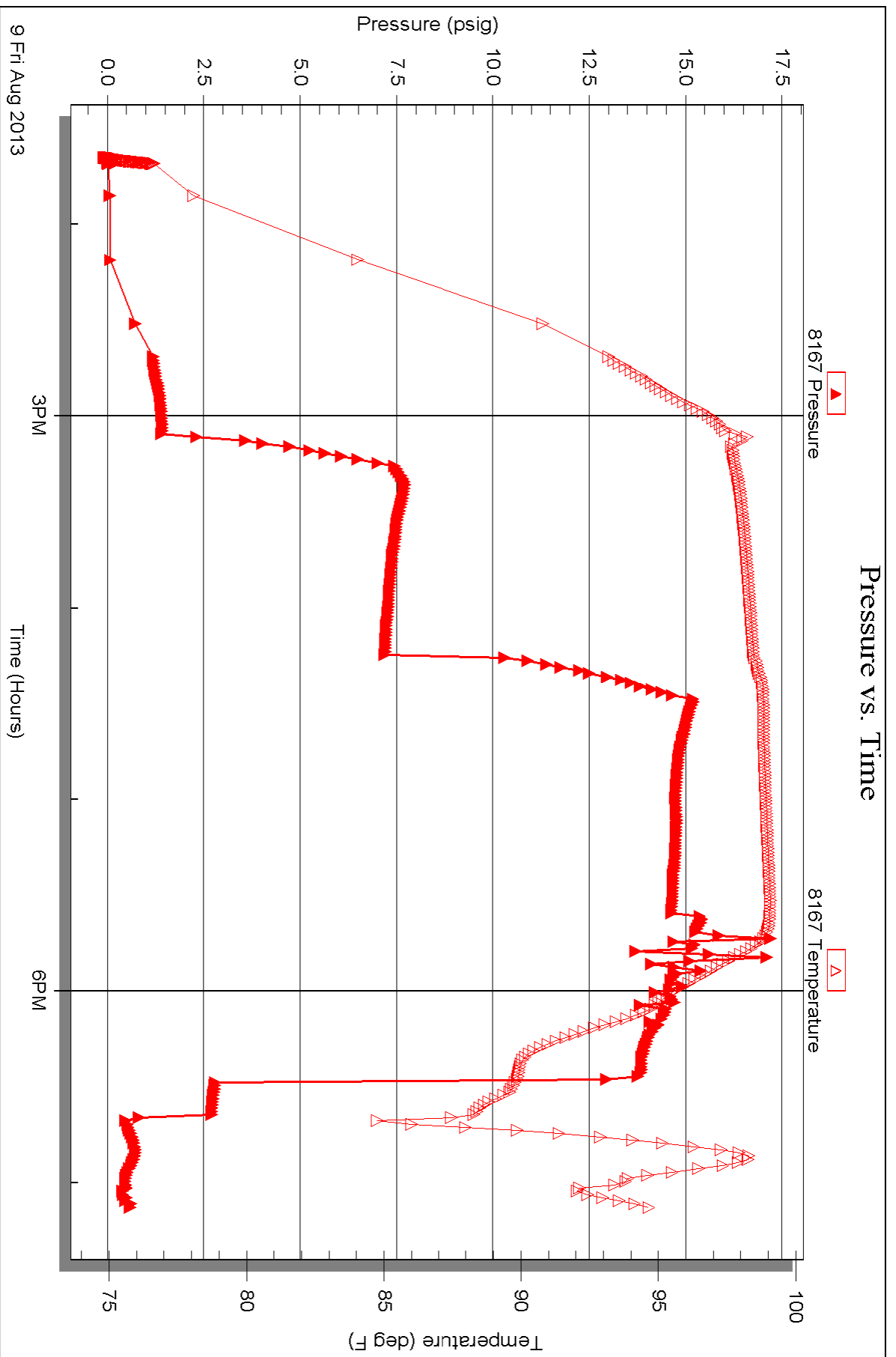
DST Test Number: 2



Triobite Testing, Inc

Ref. No: 50823

Printed: 2013.08.09 @ 23:51:23





**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates, Inc.

**21-12-16 Ellis, KS**

1515 Wynkoop, Ste 700  
Denver, CO 80202

**Donald 1-21**

Job Ticket: 50824

**DST#: 3**

ATTN: Chris Mitchell

Test Start: 2013.08.10 @ 23:00:01

## GENERAL INFORMATION:

Formation: **ARBUCKLE**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:29:02

Time Test Ended: 06:29:15

Test Type: Conventional Straddle (Reset)

Tester: Brannan L

Unit No: 67

**Interval: 3500.00 ft (KB) To 3520.00 ft (KB) (TVD)**

Reference Elevations: 2017.00 ft (KB)

Total Depth: 3600.00 ft (KB) (TVD)

2009.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

## Serial #: 8844

Press @ Run Depth: 51.82 psig @ ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.08.10

End Date:

2013.08.11

Last Calib.: 2013.08.11

Start Time: 23:00:06

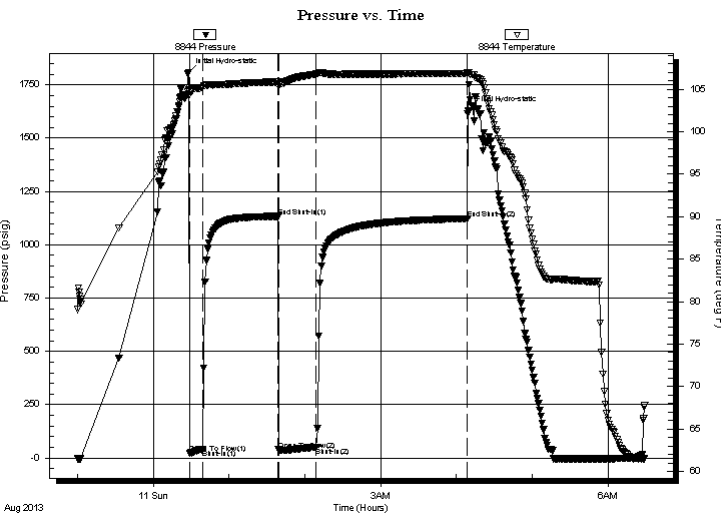
End Time:

06:29:15

Time On Btm: 2013.08.11 @ 00:27:47

Time Off Btm: 2013.08.11 @ 04:09:32

**TEST COMMENT:** 10- IF- 2"  
60- IS- No blow  
30- FF- 3"  
120- FS- No blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1808.15	104.93	Initial Hydro-static
2	21.42	104.38	Open To Flow (1)
12	39.06	105.21	Shut-In(1)
71	1133.33	105.88	End Shut-In(1)
72	38.44	105.32	Open To Flow (2)
102	51.82	106.77	Shut-In(2)
221	1122.90	106.82	End Shut-In(2)
222	1627.26	106.93	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	O, 100%O	0.02
20.00	OWM, 10%O 30%W 60%M	0.10
60.00	M, 100%M	0.79

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE TESTING, INC**

**DRILL STEM TEST REPORT**

Samuel Gary Jr. & Associates, Inc.

**21-12-16 Ellis, KS**

1515 Wynkoop, Ste 700  
Denver, CO 80202

**Donald 1-21**

Job Ticket: 50824

**DST#: 3**

ATTN: Chris Mitchell

Test Start: 2013.08.10 @ 23:00:01

**GENERAL INFORMATION:**

Formation: **ARBUCKLE**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:29:02

Time Test Ended: 06:29:15

Test Type: Conventional Straddle (Reset)

Tester: Brannan L

Unit No: 67

**Interval: 3500.00 ft (KB) To 3520.00 ft (KB) (TVD)**

Reference Elevations: 2017.00 ft (KB)

Total Depth: 3600.00 ft (KB) (TVD)

2009.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8736**

Press @RunDepth: psig @ ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.08.10 End Date: 2013.08.11

Last Calib.: 2013.08.11

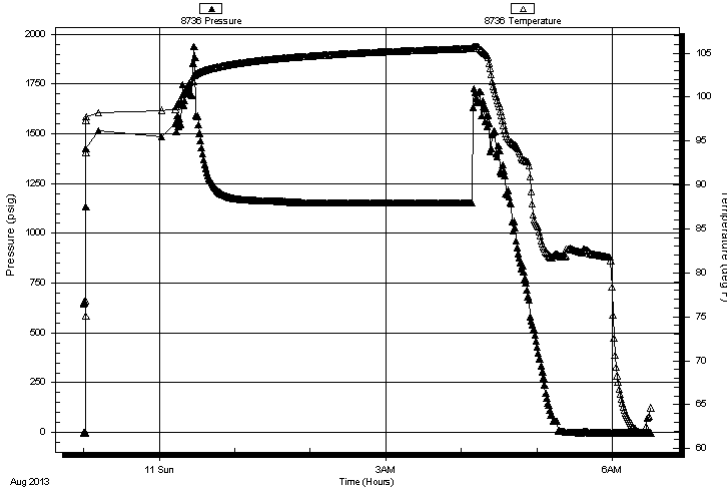
Start Time: 23:00:01 End Time: 06:30:50

Time On Btm:

Time Off Btm:

**TEST COMMENT:** 10- IF- 2"  
60- IS- No blow  
30- FF- 3"  
120- FS- No blow

**Pressure vs. Time**



**PRESSURE SUMMARY**

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

**Recovery**

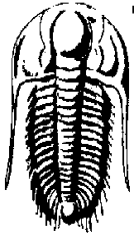
Length (ft)	Description	Volume (bbl)
5.00	O, 100%O	0.02
20.00	OWM, 10%O 30%W 60%M	0.10
60.00	M, 100%M	0.79

**Gas Rates**

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

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates, Inc.

21-12-16 Ellis, KS

1515 Wynkoop, Ste 700  
Denver, CO 80202

Donald 1-21

Job Ticket: 50824

DST#: 3

ATTN: Chris Mitchell

Test Start: 2013.08.10 @ 23:00:01

## GENERAL INFORMATION:

Formation: **ARBUCKLE**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:29:02

Time Test Ended: 06:29:15

Test Type: Conventional Straddle (Reset)

Tester: Brannan L

Unit No: 67

Interval: **3500.00 ft (KB) To 3520.00 ft (KB) (TVD)**

Reference Elevations: 2017.00 ft (KB)

Total Depth: 3600.00 ft (KB) (TVD)

2009.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8679 Below (Straddle)**

Press@RunDepth: psig @ 3532.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.08.10

End Date: 2013.08.11

Last Calib.: 2013.08.11

Start Time: 23:00:01

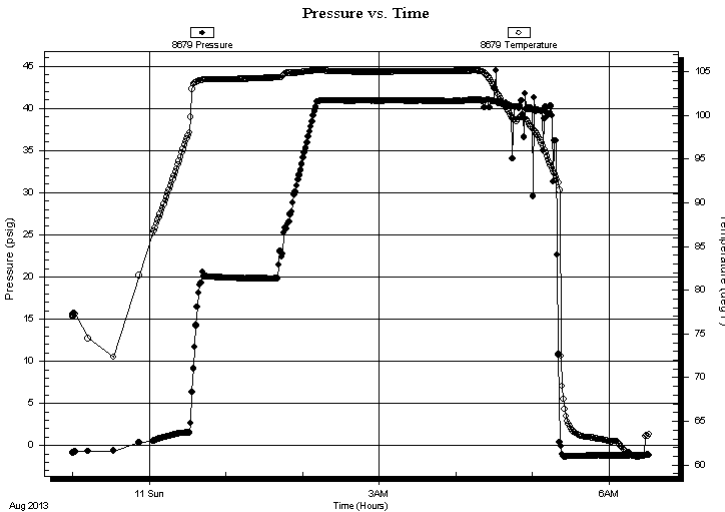
End Time: 06:32:00

Time On Btm:

Time Off Btm:

TEST COMMENT: 10- IF- 2"  
60- IS- No blow  
30- FF- 3"  
120- FS- No blow

## PRESSURE SUMMARY



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

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	O, 100%O	0.02
20.00	OWM, 10%O 30%W 60%M	0.10
60.00	M, 100%M	0.79

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE TESTING, INC**

## DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates, Inc.

21-12-16 Ellis, KS

1515 Wynkoop, Ste 700  
Denver, CO 80202

Donald 1-21

Job Ticket: 50824

DST#: 3

ATTN: Chris Mitchell

Test Start: 2013.08.10 @ 23:00:01

### GENERAL INFORMATION:

Formation: **ARBUCKLE**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:29:02

Time Test Ended: 06:29:15

Test Type: Conventional Straddle (Reset)

Tester: Brannan L

Unit No: 67

**Interval: 3500.00 ft (KB) To 3520.00 ft (KB) (TVD)**

Reference Elevations: 2017.00 ft (KB)

Total Depth: 3600.00 ft (KB) (TVD)

2009.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

### Serial #: 8167

Press @ Run Depth: psig @ ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.08.10

End Date: 2013.08.11

Last Calib.: 2013.08.11

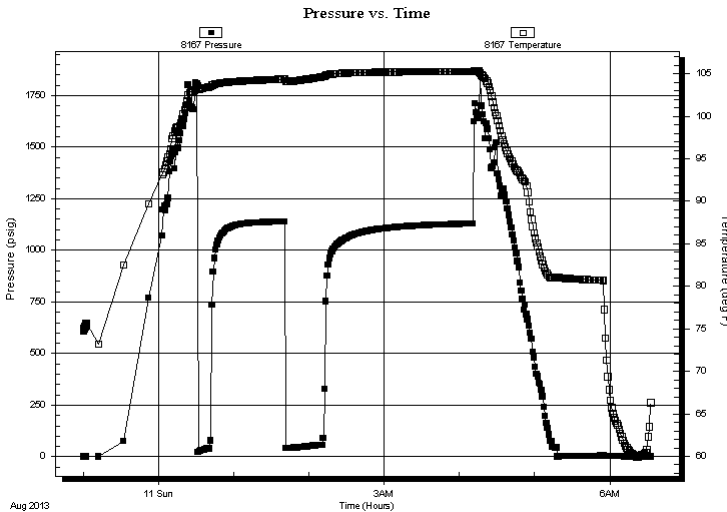
Start Time: 23:00:01

End Time: 06:32:30

Time On Btm:

Time Off Btm:

TEST COMMENT: 10- IF- 2"  
60- IS- No blow  
30- FF- 3"  
120- FS- No blow



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
5.00	O, 100%O	0.02
20.00	OWM, 10%O 30%W 60%M	0.10
60.00	M, 100%M	0.79

### Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Samuel Gary Jr. & Associates, Inc.

**21-12-16 Ellis, KS**

1515 Wynkoop, Ste 700  
Denver, CO 80202

**Donald 1-21**

Job Ticket: 50824

**DST#: 3**

ATTN: Chris Mitchell

Test Start: 2013.08.10 @ 23:00:01

## 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:

17000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
5.00	O, 100%O	0.025
20.00	OWM, 10%O 30%W 60%M	0.098
60.00	M, 100%M	0.787

Total Length: 85.00 ft      Total Volume: 0.910 bbl

Num Fluid Samples: 0

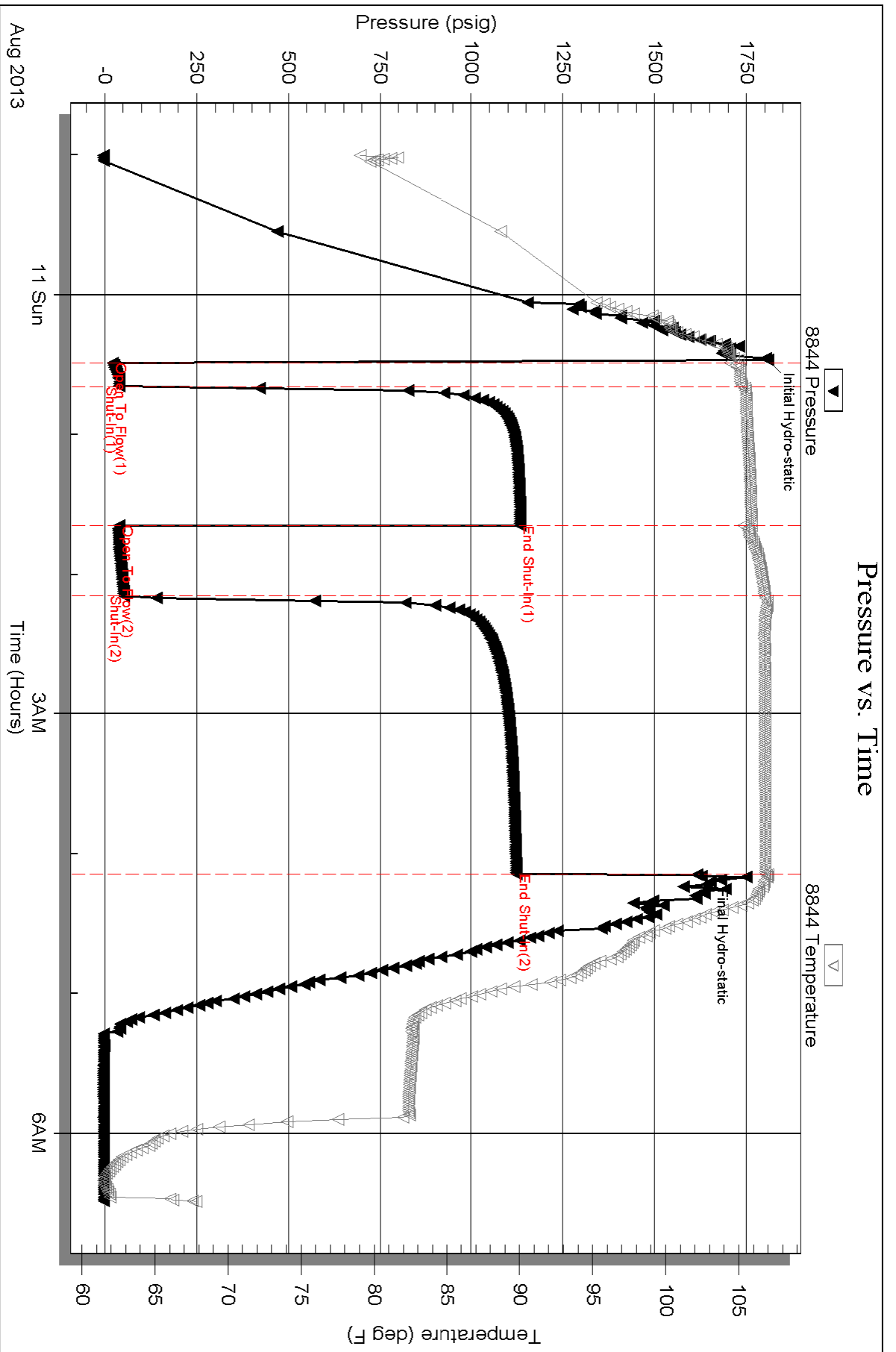
Num Gas Bombs: 0

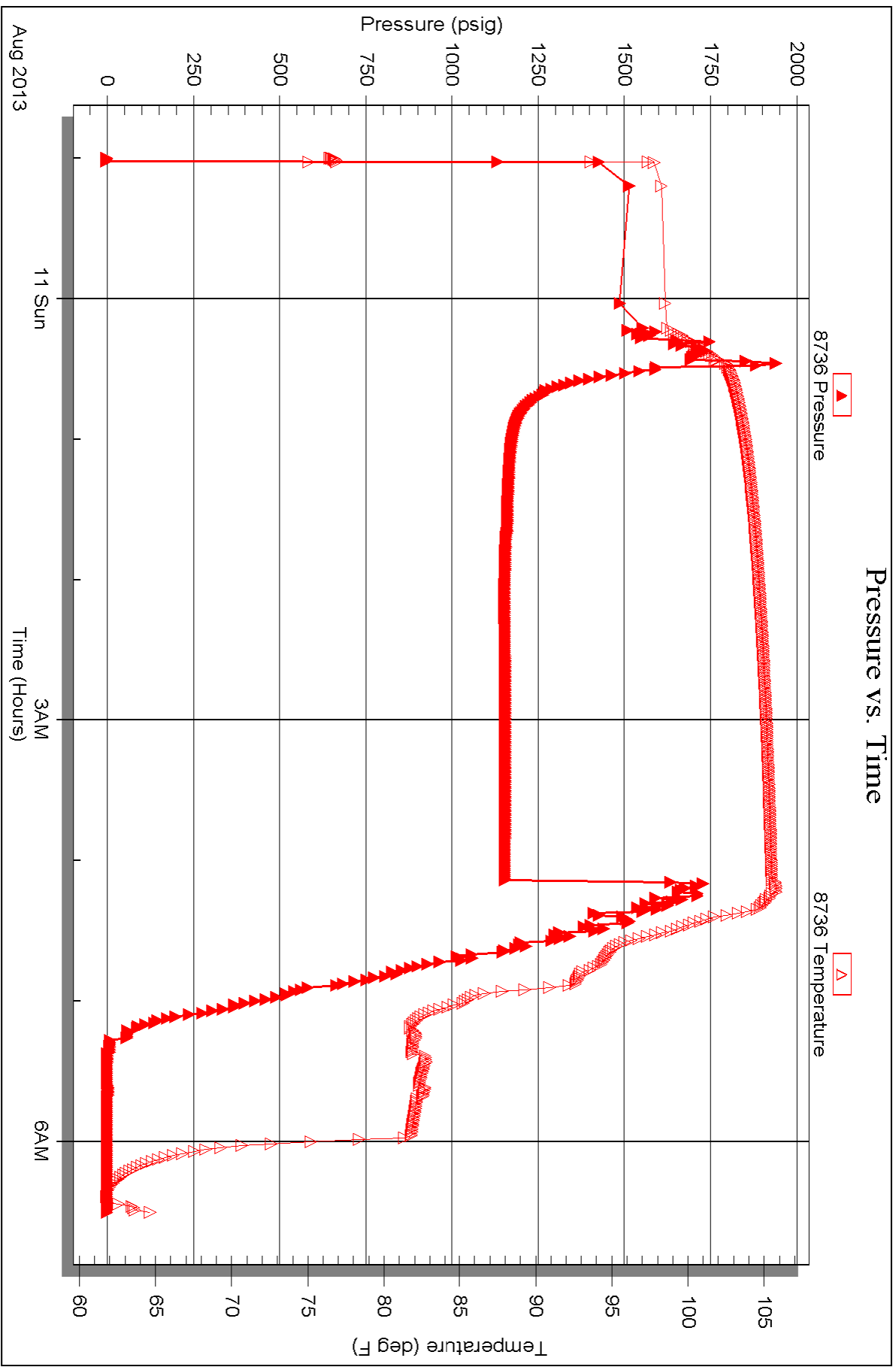
Serial #:

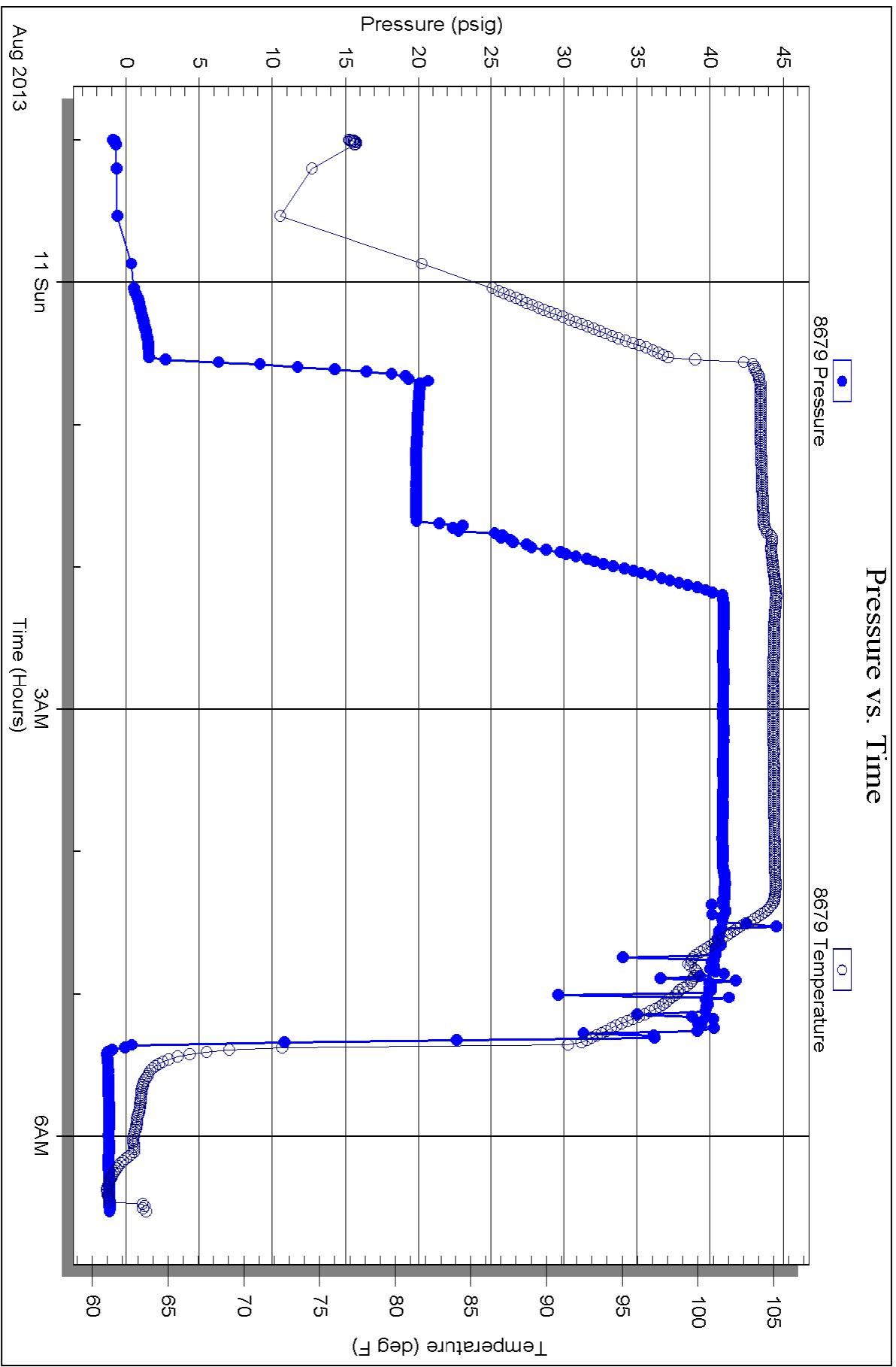
Laboratory Name:

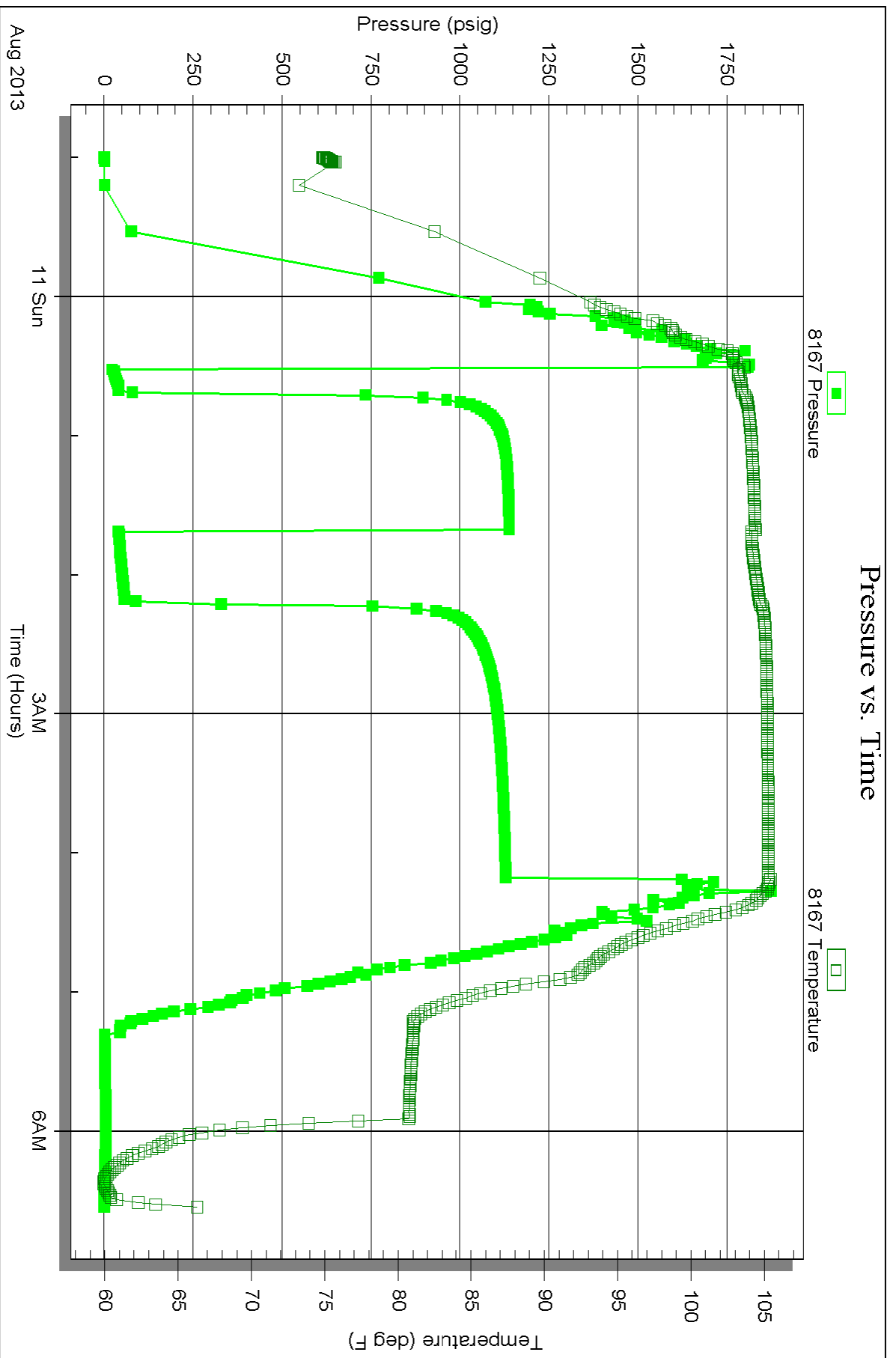
Laboratory Location:

Recovery Comments: Sampler: 2000mLW@450PSI











Scale 1:240 (5"=100') Imperial  
Measured Depth Log

Well Name: Donald 1-212  
 Location: Sec. 21-12S-16W Ellis County, Kansas  
 License Number: 15-051-26571-0000  
 Spud Date: Aug 4, 2013  
 Surface Coordinates: 760 FSL/ 1100 FWL  
 Region: WILDCAT  
 Drilling Completed: Aug 10, 2013

Bottom Hole Coordinates:  
 Ground Elevation (ft): 2009' K.B. Elevation (ft): 2017'  
 Logged Interval (ft): 2900' To: 3600' Total Depth (ft): 3600'  
 Formation:  
 Type of Drilling Fluid:

Printed by WellSight Log Viewer from WellSight Systems 1-800-447-1534 www.WellSight.com

**OPERATOR**

Company: Samuel Gary Jr. & Assoc.  
 Address: 1515 Wynkoop, Ste. # 700  
 Denver, Colo. 80202  
 Geo: Chris Mitchell

**GEOLOGIST**

Name: Aaron Suelter  
 Company: Earth Tech OGL, Inc.  
 Address: PO Box 683  
 Hooker, Okla . 73945  
 Off. 888-543-8378 Cell: 620-600-0777

**DST's Report**

DST#1 3182'-3246' 10 60 15 60  
 IF- 1" BLOW/ ISI- NO BLOW/ FF- NO BLOW/ FSI- NO BLOW  
 IH 1582, FH- 1523/ IF- 37 TO 180/ FF- 114 TO 190/ ISI- 953, FSI-= 924  
 RECOVERY- 5' MUD

**DST's Report**

DST#2 3278'-3358' 10 60 15 60  
 IF- 3/4" BLOW/ ISI- NO BLOW/ FF- NO BLOW/ FSI- NO BLOW  
 IH- 1659, FH- 1602/ IF- 25 TO 39/ FF- 31 TO 40/ ISI- 325, FSI- 294  
 RECOVERY- 10' MUD

**ROCK TYPES**

Anhy  
 Bent  
 Brec  
 Cht  
 Clyst  
 Coal  
 Congl  
 Dol

Gyp  
 Igne  
 Lmst  
 Meta  
 Mrlst  
 Salt  
 Shale  
 Shcol

Shgy  
 Sltst  
 Ss  
 Till  
 Carb sh  
 Dol  
 Dtd  
 Gry sh

Sandylms  
 Shale  
 Sltstn  
 Shlyslts  
 SltysH  
 Lms



**ACCESSORIES**

**MINERAL**

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Brefracg
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr

- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff
- Chlorite
- Dol
- Sand
- Slty

**FOSSIL**

- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram

- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom
- Fuss
- Oomold

**STRINGER**

- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg
- Carbsh

- Clystn
- Dol
- Grysh
- Gryslt
- Lms
- Sandyms
- Sh
- Sltstn

**TEXTURE**

- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest

**OTHER SYMBOLS**

**POROSITY TYPE**

- Earthy
- Fenest
- Fracture
- Inter
- Moldic
- Organic
- Pinpoint
- Vuggy

**SORTING**

- Well
- Moderate
- Poor

**ROUNDING**

- Rounded
- Subrnd
- Subang

- Angular

**OIL SHOWS**

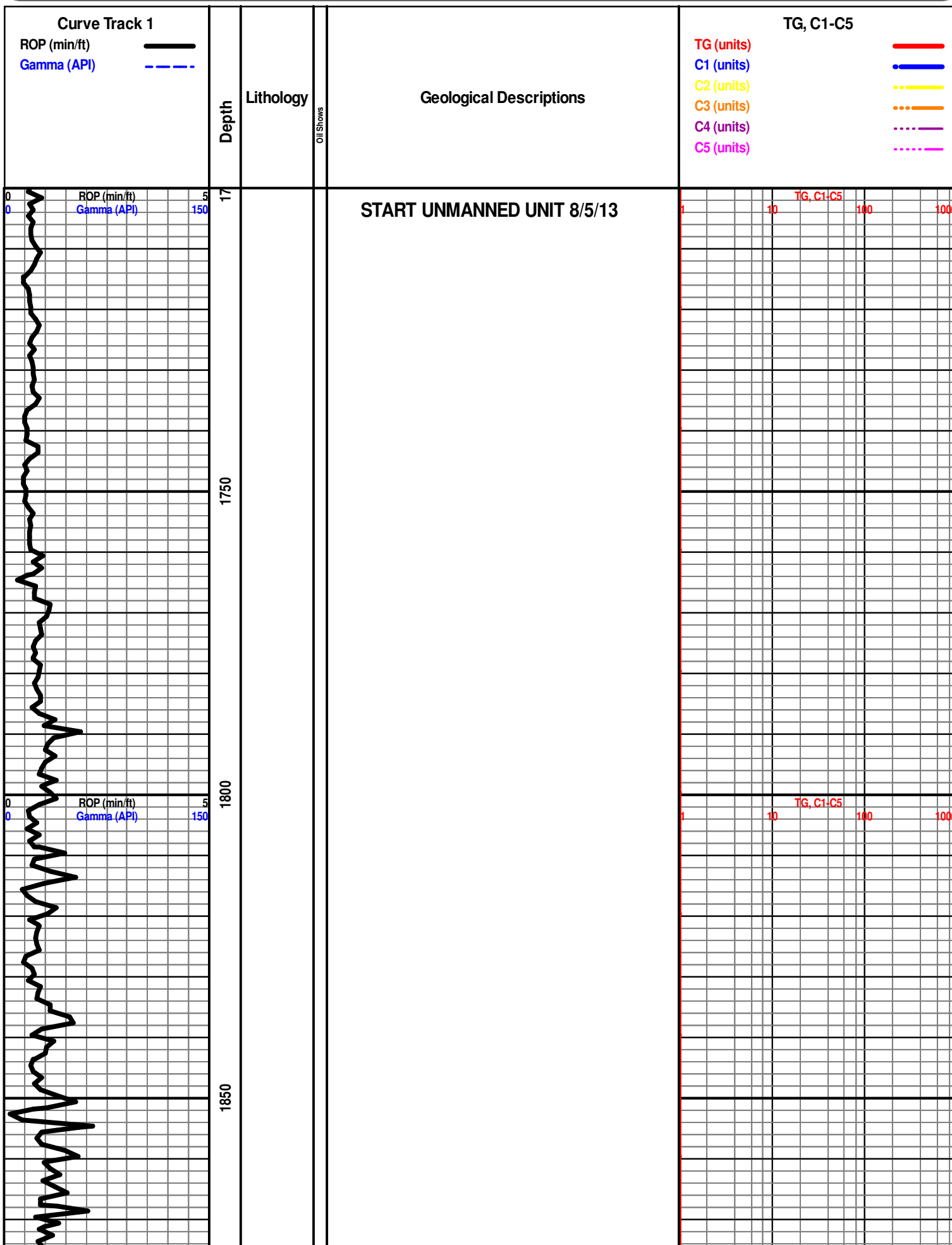
- Even
- Spotted
- Ques
- Dead
- Gas show

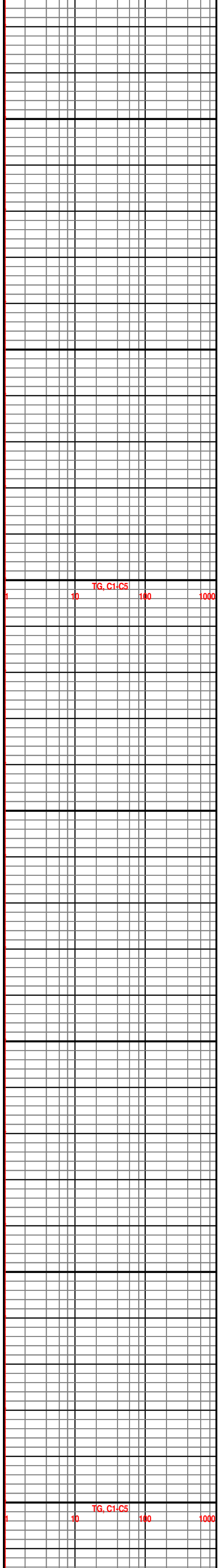
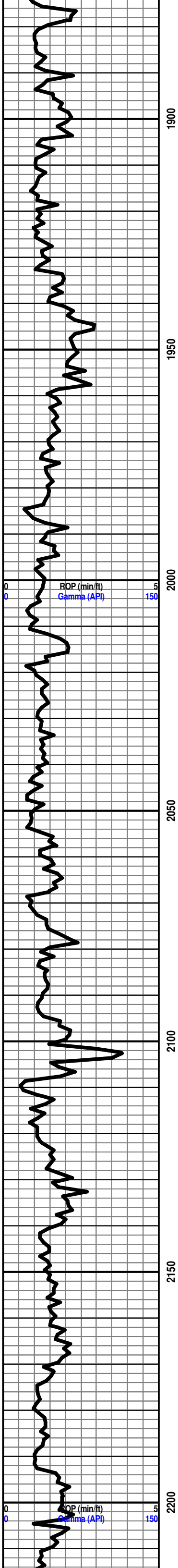
**INTERVALS**

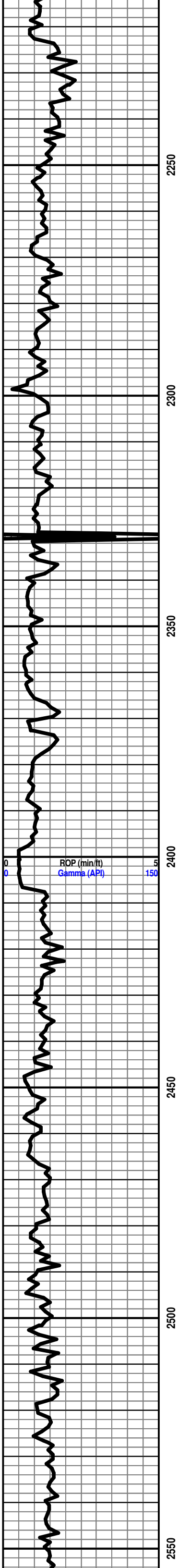
- Core
- Dst
- Dst

**EVENTS**

- Rft
- Sidewall







2550

2500

2450

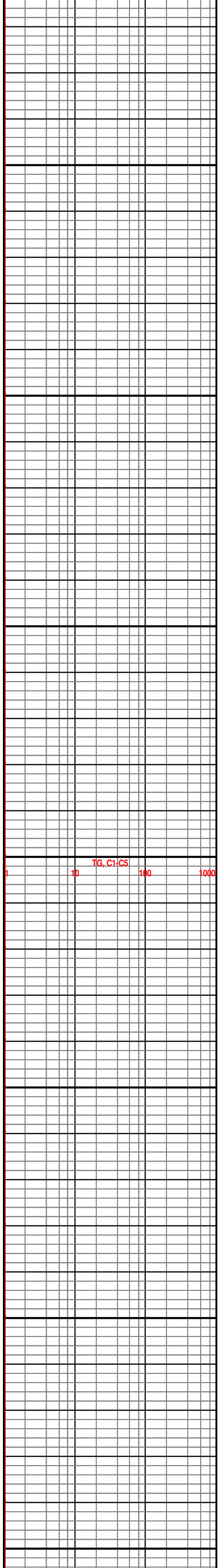
2400

2350

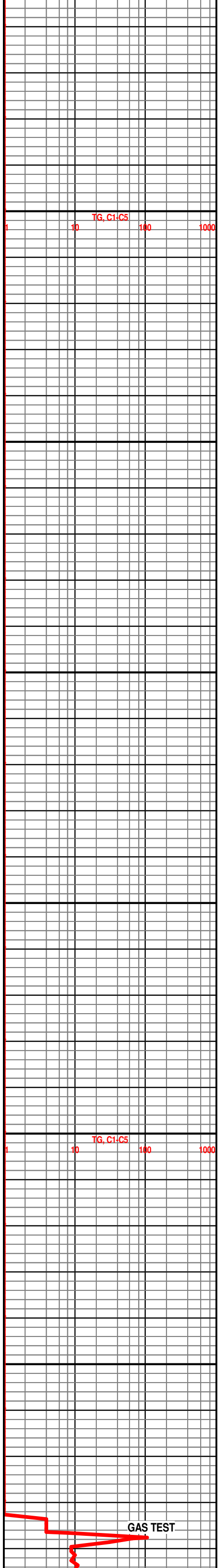
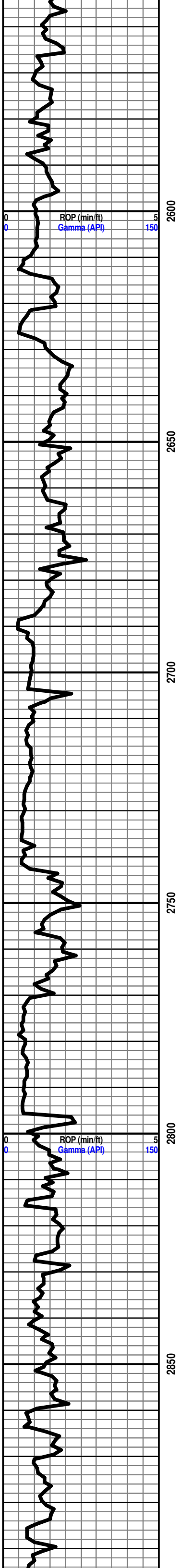
2300

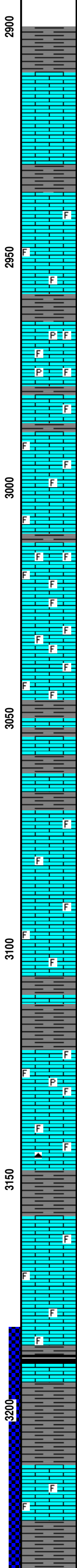
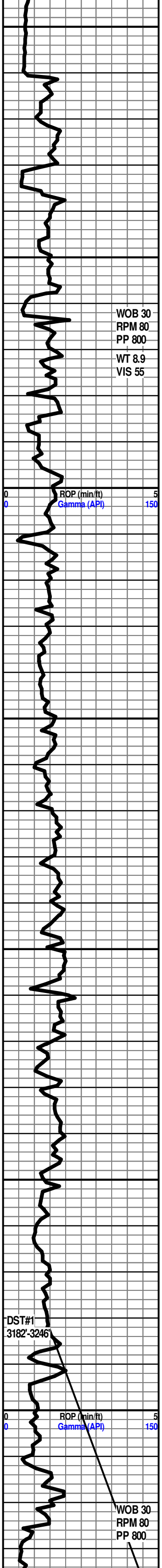
2250

ROP (min/ft)  
Gamma (API)



TG, C1-C5  
1 10 100 1000





**START 24 HOUR MANNED UNIT 8/7/13**  
SH- LT GY TO GY, FRM BLKY TO SFT GMMY, SLTY TXT

**HOWARD 2911' - 894**

LS- CRM TO LT TN, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, S-CHLKY IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

**TOPEKA 2935' -918'**

LS- OFF WHT CRM TO LT TN, HD DNS TO BRIT, V/F TO F XLN SUCRO MTRX, S-CHLKY, RE-XLN IP, SLI TR IMBD FOSS FRG IP NO VIS FLO, NO VIS POR, NO VIS SHOW

**SGA TOPEKA 2963' -946'**

LS- GY LT TN TO TN, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, S-CHLKY IP, RE-XLN IP, SCAT IMBD FOSS FRG THRU, SLI TR PYR IN TRAY, NO VIS FLO, PR INTR XLN POR IN 2%, NO VIS CUT OR SHOW

LS- GY LT TN TO TN, HD DNS TO V/BRIT, V/F TO F XLN SUCRO MTRX, RE-XLN IP, SCAT IMBD FOSS FRG THRU, TR IMBD DISS PYR, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- GY TN TO DK TN, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, RE-XLN IP, SCAT IMBD FOSS FRG THRU, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- TN TO DK TN, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, RE-XLN IP, ABDT IMBD FOSS FRG IP, SFT WHT CHLK IN TRAY, NO VIS FLO, FR INTR FOSS POR IN 3%, NO VIS SHOW

LS- GY TN TO DK TN MOTT IP, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, RE-XLN IP, S-CHLKY IP, ABDT IMBD FOSS FRG THRU, NO VIS FLO, FR INTR FOSS POR IN 3%, NO VIS SHOW

SH- RED GY TO DK GY, FRM BLKY , SLTY TXT

SH- RED GY TO DK GY, FRM BLKY , SLTY TXT

**LE COMPTON 3069' -1052'**

LS- OFF WHT TO CRM, HD DNS TO V/BRIT IP, V/F TO CRYPTO XLN, S-SUCRO, S-CHLKY, SLI TR IMBD FOSS FRG IP, SFT WHT CHLK IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- CRM LT TN TO TN, HD DNS TO BRIT, V/F TO F XLN SUCRO MTRX, RE-XLN IP, SLI TR IMBD FOSS FRG IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- LT TN TO TN, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, RE-XLN, SLI TR IMBD FOSS FRG, SLI TR IMBD CALC XLS IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

SH- BRWN GY TO DK GY, FRM BLKY, SLTY TXT

LS- CRM TO LT TN, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, RE-XLN IP, SLI TR IMBD FOSS FRG IP, TR IMBD CALC XLS IP, TR IMBD DISS PYR IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- LT TN TO TN, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, RE-XLN IP, SLI TR IMBD FOSS FRG IP, SLI TR IMBD TN CHRT IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- LT GY GY TO DK GY, FRM SPLNTY, SLTY TXT  
LS- OFF WHT TO LT TN, HD DNS TO BRIT, V/F TO F XLN CHLKY MTRX, S-SUCRO IP, SCAT IMBD FOSS FRG IP, ABDT SFT WHT CHLK IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

3173'-3175' LS- OFF WHT TO CRM W/ TN OIL STN IN 50%, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, RE-XLN MTRX, SCAT IMBD FOSS FRG THU, DUL YEL GLD FLO IN 30%, BRT YEL GLD FLO IN 20%, PR TO FR INTR XLN POR IN 4%, FR FL SH CUT IN 50%, FR TO GD SLW STRM IN 60%, NO LCH ON DISH

**HEEBNER 3187' -1170'**

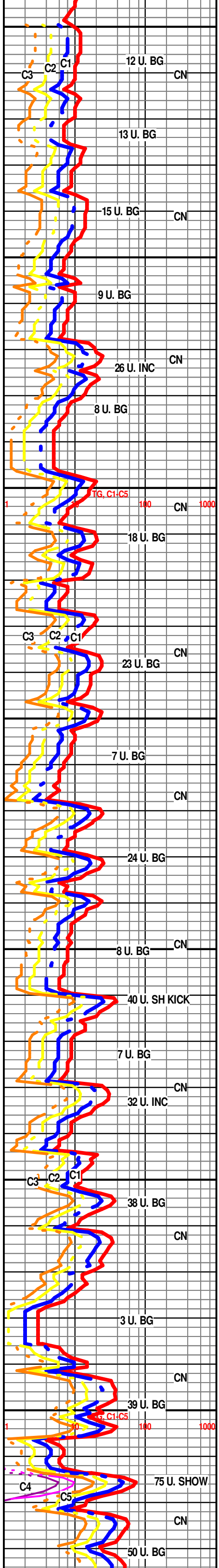
SH- BLCK, SFT, CARB

SH- GY TO DK GY, FRM BLKY TO SPLNTY, SMTH TO SLTY TXT

3215'-3217' LS- CRM TO LT TN W/ TN OIL STN IN 70%, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, RE-XLN IP, SCAT IMBD FOSS FRG IP, BRT YEL GLD FLO IN 70%, PR TO FR INTR XLN POR IN 4%, FR TO GD VUG POR IN 2%, FR FL SH CUT IN 70%, FR TO GD SLW STRM IN 70%, LT TN LCH ON DISH

**DOUGLAS 3225' -1208'**

SH- GRN BRWN TO GY, FRM BLKY, SMTH TXT



12 U. BG CN

13 U. BG

15 U. BG CN

9 U. BG

26 U. INC CN

8 U. BG

18 U. BG CN 1000

18 U. BG

23 U. BG CN

7 U. BG

CN

24 U. BG

8 U. BG CN

40 U. SH KICK

7 U. BG

32 U. INC CN

38 U. BG

CN

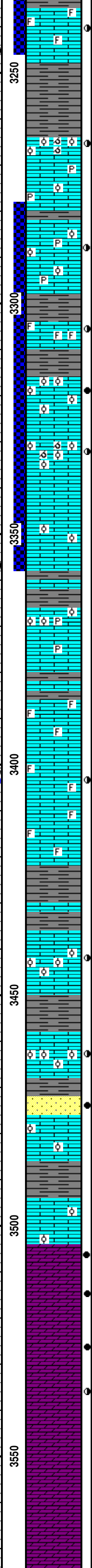
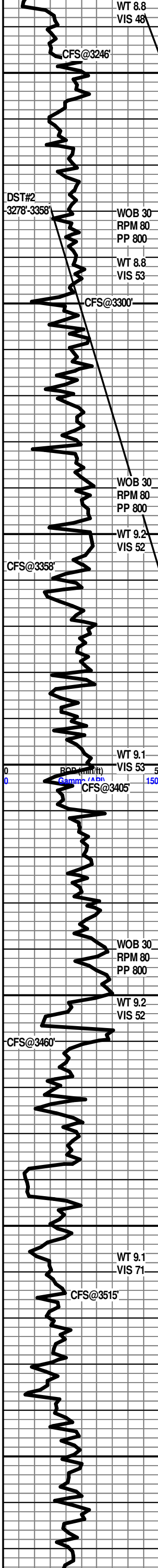
3 U. BG

39 U. BG

75 U. SHOW

CN

50 U. BG



**LANSING 3236' -1219'**  
 3240'-3242' LS- LT TN TO TN W/ TN OIL STN IN 60%, HD DNS TO BRIT, F TO MD XLN RE-XLN MTRX, S-SUCRO, IMBD FOSS FRG THRU, BRT YEL GLD FLO IN 60%, PR TO FR INTR XLN POR IN 3%, GD VUT POR IN 3%, FR FLSH CUT IN 30%, PR TO FR SLW STRM IN 50%, NO LCH ON DISH

SH- GRN YEL BRWN TO GY, FRM BLKY, SMTH TXT

**LANSING "C" 3264' -1247'**  
 3265'-3266' LS- LT TN TO TN W/ TN OIL STN IN 40%, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, IMBD OOL IP, TR OOLMLD IP, TR PYR IN TRAY, BRT YEL GLD FLO IN 50%, FR TO GD OOLMLD POR IN 3%, PR INTR OOL POR IN 2%, PR FLSH CUT IN 50%, PR TO FR SLW STRM IN 50%, NO LCH ON DISH

3287'-3288' LS- CRM TO LT TN W/ TN OIL STN IN 30%, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, ABDDT IMBD OOL THRU, SLI TR IMBD PYR IP, BRT YEL GLD FLO IN 40%, PR TO FR INTR OOL POR IN 4%, PR FLSH CUT IN 40%, PR SLW STRM IN 40%, NO LCH ON DISH

**LANSING "F" 3305' -1288'**  
 3304'-3305' LS- LT TN TO TN W/ TN OIL STN IN 50%, HD DNS TO BRIT, F XLN SUCRO MTRX, IMBG FOSS FRG THRU, DUL YEL GLD FLO IN 50%, PR TO FR INTR FOSS POR IN 4%, FR FLSH CUT IN 50%, FR SLW STRM IN 50%, NO LCH ON DISH

3318'-3319' LS- LT TN TO TN W/ TN OIL STN IN 70%, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, ABDDT IMBD OOL THRU, DUL YEL GLD FLO IN 70%, FR TO GD INTR OOL POR IN 5%, FR FLSH CUT IN 70%, FR SLW STRM IN 70%, LT TN LCH ON DISH, WK OIL ODOR

3331'-3332' LS- LT TN TO TN W/ TN OIL STN IN 60%, HD DNS TO BRIT, V/F TO F XLN SUCRO MTRX, ABDDT IMBD OOL THRU, TR OOLMLD IP, DUL YEL GLD FLO IN 60%, FR INTR OOL POR IN 4%, GD OOLMLD PIR IN 3%, FR FLSH CUT IN 60%, FR SLW STRM IN 60%, LT TN LCH ON DISH, WK OIL ODOR

**LANSING "H" 3365' -1348'**  
 LS- CRM TO LT TN, HD DNS TO BRIT, V/F TO F XLN SUCRO MTRX, S-CHLKY, ABDDT IMBD OOL IP, TR PYR IN TRAY, TR SFT WHT CHLK IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

SH- BRWN TO GY, FRM SPLNTY, SMTH TXT

LS- CRM TO LT TN, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, SCAT IMBD FOSS FRG IP, SFT WHT CHLK IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

3402'-3404' LS- CRM TO LT TN W/ TN OIL STN IN 70%, HD DNS TO BRIT IP, F TO MD XLN SUCRO MTRX, SCAT IMBD FOSS FRG IP, BRT YEL GLD FLO IN 70%, PR TO FR INTR XLN POR IN 4%, PR VUG POR IN 1%, WK FLSH CUT IN 70%, PR TO FR SLW STRM IN 70%, LT TN LCH ON DISH

SH- LT GY TO GY, FRM BLKY TO SPLNTY, SMTH TXT

3442'-3445' LS- LT TN TO TN W/ TN OIL STN IN 40%, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, S-CHLKYIP, ABDDT IMBD OOL THRU, TR SFT WHT CHLK IN TRAY, DUL YEL GLD FLO IN 50%, PR TO FR INTR OOL POR IN 3%, FR FLSH CUT IN 30%, WK SLW STRM IN 40%, NO LCH ON DISH

SH- BRWN TO GY, FRM BLKY, SMTH TXT

3462'-3463' LS- CRM TO LT TN W/ TN OIL STN IN 40%, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, ABDDT IMBD OOL IP, DUL YEL GLD FLO IN 40%, PR TO FR INTR OOL POR IN 4%, PR FLSH CUT IN 40%, PR SLW STRM IN 40%, NO LCH ON DISH

**BKC 3468' -1451'**  
 3473'-3476' SS- CRM TO LT TN W/ TN OIL STN IN 95%, LIME GRN, TT TO FRI, F TO MD GRN S-ANG TO S-RND, WLL SRT, SIL CMNT, DUL YEL GLD FLO IN 95%, TT TO FR INTR GRN POR IN 15%, NO FLSH CUT, PR SLW STRM IN 70%, NO LCH ON DISH

SH- GRN BRWN TO GY, FRM BLKY, SMTH TXT

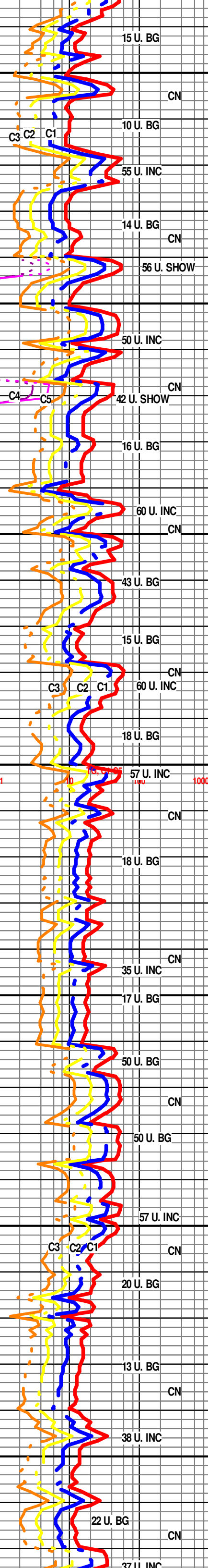
LS- OFF WHT CRM TO TN, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, S-CHLKY IP, SCAT IMBD OOL IP, TR PYR IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

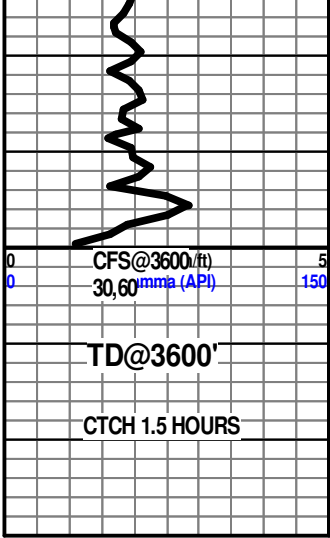
**ARBUCKLE 3503' -1486'**  
 3504'-3507' DOLO- CRM TO LT TN W/ TN OIL STN IN 75%, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, ABDDT IMBD F TO MD S-RND TO RND DOLO GRNS THRU, DUL YEL GLD FLO IN 75%, TT TO FR POR IN 15%, FR INSTNT FLSH CUT THRU, PR TO FR SLW STRM IN 75%, TN LHC ON DISH, FR OIL ODOR

3515'-3516' DOLO- CRM TO LT TN W/ TN OIL STN IN 70%, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, ABDDT IMBD SM TO MD S-ANG TO RND DOLO GRNS THRU, DUL YEL GLD FLO IN 40%, BRT YEL GLD FLO IN 30%, PR TO FR INTR GRN POR IN 15%, WK FLSH CUT IN 70%, PR TO FR SLW STRM IN 70%, LT TN LCH ON DISH, FR OIL ODOR

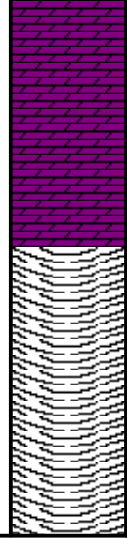
3525'-2528' DOLO- CRM TO LT TN W/ TN OIL STN IN 75%, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, ABDDT IMBD F TO CRS S-ANG TO S-RND DOLO GRNS THRU, DUL YEL GLD FLO IN 80%, TT TO FR INTR GRN POR IN 10%, FR FLSH CUT IN 80%, PR TO FR SLW STRM IN 80%, LT TN LCH ON DISH, FR OIL ODOR

3536'-3537' DOLO- CRM TO LT TN W/ TN OIL STN IN 70%, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, ABDDT IMBD SM TO CRS S-ANG TO S-RND DOLO GRNS THRU,





3600



DUL YEL GLD FLO IN 70%, FR TO GD INTR GRN POR IN 15%, WK FLSH CUT IN 70%, PR SLW STRM IN 50%, NO LCH ON DISH, FR OIL ODOR

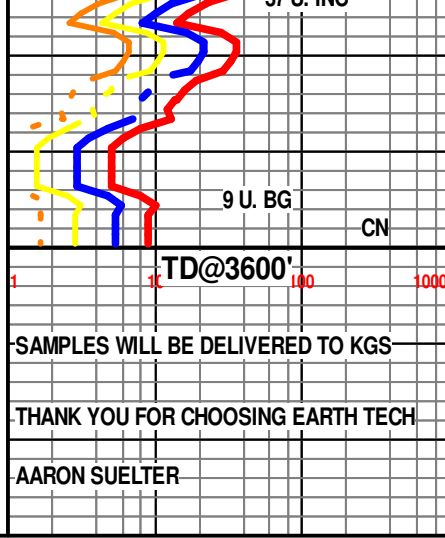
3543'-3544' DOLO- CRM TO LT TN W/ TN OIL STN IN 60%, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, ABDT IMBD SM TO MD S-ANG TO S-RND DOLO GRNS THRU, BRT YEL GLD FLO IN 50%, FR INTR GRN POR IN 15%, WK FLSH CUT IN 60%, WK SLW STRM IN 40%, NO LCH ON DISH, FR OIL ODOR

R.T.D. @ 11:30 AM 8/10/13

DROP SURVEY

TOFL

WEATHERFORD/ LIBERAL



SAMPLES WILL BE DELIVERED TO KGS

THANK YOU FOR CHOOSING EARTH TECH

AARON SUELTER