



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1073384  
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: \_\_\_\_\_

1073384

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> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	BRULL 1-34
Doc ID	1073384

All Electric Logs Run

DEN
IND
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  
Ward Loyd, Commissioner  
Thomas E. Wright, Commissioner

Sam Brownback, Governor

February 02, 2012

THOMAS G. FERTAL  
Samuel Gary Jr. & Associates, Inc.  
1515 WYNKOOP, STE 700  
DENVER, CO 80202

Re: ACO1  
API 15-051-26188-00-00  
BRULL 1-34  
NE/4 Sec.34-14S-17W  
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 at 303-831-4673.

Respectfully,  
THOMAS G. FERTAL



**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: 10/17/2011  
 Invoice # 5190

P.O.#:  
 Due Date: 11/16/2011  
 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	BRULL 1-34
Deck	
AFE	
Approval	<i>[Signature]</i>
Description	

**Reference:**  
 BRULL 1-34

**Description of Work:**  
 LONG SURFACE JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 963.85	No	Bulk Truck Mileage-Job to Nearest Bulk Plant	16	\$98.63	No
Common-Class A	370	\$ 4,764.78	Yes				
8 5/8" Basket	3	\$ 1,000.67	Yes				
Bulk Truck Matl-Material Service Charge	390	\$ 823.33	No				
Calcium Chloride	13	\$ 516.78	Yes				
8 5/8" Centralizer	3	\$ 202.67	Yes				
Flo Seal	92	\$ 194.22	Yes				
Pump Truck Mileage-Job to Nearest Camp	16	\$ 168.55	No				
Premium Gel (Bentonite)	7	\$ 120.29	Yes				
8 5/8" Top Rubber Plug	1	\$ 111.89	Yes				
Baffle Plate Aluminum, 8 5/8"	1	\$ 95.00	Yes				

**Invoice Terms:**

Net 30

SubTotal: \$ 9,060.66  
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (1,359.10)

SubTotal for Taxable Items:	\$ 5,955.35
SubTotal for Non-Taxable Items:	\$ 1,746.21
Total:	\$ 7,701.56
Tax:	\$ 375.19
<b>Amount Due:</b>	<b>\$ 8,076.75</b>
<b>Applied Payments:</b>	
<b>Balance Due:</b>	<b>\$ 8,076.75</b>

6.30% Ellis County Sales Tax

**Thank You For Your Business!**

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

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

No. 5190

Date	10-12-11	Sec.	34	Twp.	14	Range	17	County	Ellis	State	Ks	On Location		Finish	6:00 PM	
Lease	Brull		Well No.		1-34		Location Victoria, Ks - 45 to Butterfield Trail									
Contractor	Ual Energy #6							Owner Jw, Y's, W's								
Type Job	Surface							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.								
Hole Size	12 1/4"		T.D.		1107'		Charge To Sam Gacy Jr & Assoc.									
Csg.	8 5/8"		Depth		1105'		Street									
Tbg. Size			Depth				City									
Tool			Depth				State									
Cement Left in Csg.	40'		Shoe Joint		40'		The above was done to satisfaction and supervision of owner agent or contractor.									
Meas Line			Displace		67 3/4 BLS		Cement Amount Ordered 370 sx Common 3% CC									

EQUIPMENT

Pumptrk	1	No.	Cementer Helper	Cisco	2% Gel	1/4# Flo-seal
Bulktrk	13	No.	Driver	Brett	Common	370
Bulktrk	fill	No.	Driver	Rick	Poz. Mix	
			Driver		Gel.	7

JOB SERVICES & REMARKS

Remarks:	Cement did Circulate.	Calcium	13
Rat Hole		Hulls	
Mouse Hole		Salt	
Centralizers	1, 16, 25	Flowseal	92#
Baskets	2, 17, 25	Kol-Seal	
D/V or Port Collar		Mud CLR 48	
		CFL-117 or CD110 CAF 38	
		Sand	
		Handling	390
		Mileage	

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	3
Baskets	3
AFU Inserts	
Float Shoe	
Latch Down	
	1- Rubber plug
	1- Baffle plate
Pumptrk Charge	Long Surface
Mileage	16

X Signature *Sam Gacy*

Tax  
Discount  
Total Charge



**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: 10/20/2011  
 Invoice # 5229

P.O.#:  
 Due Date: 11/19/2011  
 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:**  
 BRULL 1-34

**Description of Work:**  
 PLUG JOB

DRLG    COMP    W/O    LOE    GG

Account	8200-145
Well/Prospect	BRULL 1-34
Deck	
AFE	<i>[Signature]</i>
Approval	
Description	

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 963.85	Yes				
Common-Class A	132	\$ 1,699.87	Yes				
Bulk Truck Matl-Material Service Charge	228	\$ 481.33	Yes				
POZ Mix-Standard	88	\$ 427.29	Yes				
Pump Truck Mileage-Job to Nearest Camp	16	\$ 168.55	Yes				
Premium Gel (Bentonite)	8	\$ 137.48	Yes				
Flo Seal	55	\$ 116.11	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	16	\$ 98.63	Yes				
Dry Hole Plug	1	\$ 59.11	Yes				

**Invoice Terms:**

Net 30

SubTotal: \$ 4,152.22  
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (622.83)

SubTotal for Taxable Items:	\$ 3,529.39
SubTotal for Non-Taxable Items:	\$ -
Total:	\$ 3,529.39
Tax:	\$ 222.35

6.30% Ellis County Sales Tax

**Thank You For Your Business!**

**Amount Due: \$ 3,751.74**  
**Applied Payments:**  
**Balance Due: \$ 3,751.74**

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

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

No. 5229

Date	10/18/11	Sec.	34	Twp.	14	Range	17	County	Ellis	State	KS	On Location		Finish	7:30 AM
------	----------	------	----	------	----	-------	----	--------	-------	-------	----	-------------	--	--------	---------

Lease	Bruil	Well No.	1-34	Location	Victoria, KS, 2W, 1/2 S, W into
-------	-------	----------	------	----------	---------------------------------

Contractor	UAL #6	Owner	To Quality Oilwell Cementing, Inc.
Type Job	PTA	You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.	
Hole Size	7 7/8"	T.D.	3670'
Csg.		Charge To	Samuel Gary Jr. + Associates, Inc.
Tbg. Size		Street	
Tool		City	State
Cement Left in Csg.		The above was done to satisfaction and supervision of owner agent or contractor.	
Meas Line		Displace	Cement Amount Ordered 220-sx 60/40 4% gel

**EQUIPMENT**

Pumptrk	9	No.	Cementer	Paul	Common	132
			Helper			
Bulktrk	3	No.	Driver	Matt	Poz. Mix	88
			Driver			
Bulktrk	PJ	No.	Driver	Michael	Gel.	8
			Driver			

**JOB SERVICES & REMARKS**

Remarks:		Calcium	
Rat Hole	30sx	Hulls	
Mouse Hole	15sx	Salt	
Centralizers		Flowseal	55#
Baskets		Kol-Seal	
D/V or Port Collar		Mud CLR 48	
3570' - 25sx		CFL-117 or CD110 CAF 38	
1150' - 40sx		Sand	
525' - 100sx		Handling	228
40" - 10sx		Mileage	

**FLOAT EQUIPMENT**

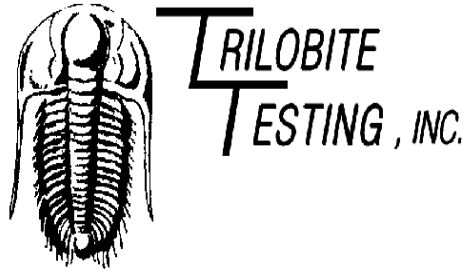
Guide Shoe	
Centralizer	4 5/8" plug
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
Pumptrk Charge	plug
Mileage	16

Thank You!!

X Signature *Randy D. Mark*

Tax	
Discount	
Total Charge	





## DRILL STEMTEST REPORT

Prepared For: **Sam Gary Jr & Assoc. inc.**

1515 Wynkoop St  
Suite 700 Denver CO 80202

ATTN Tom Feral

### **Bull 1-34**

### **34-14s-17w Ellis**

Start Date 2011.10.15 @ 22:45:05

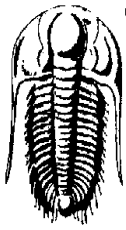
End Date 2011.10.16 @ 06:35:59

Job Ticket #: 44259 DST #: 1

Trilobite Testing Inc

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

Printed 2011.10.16 @ 06:19:22



**TRILOBITE TESTING, INC.**

## DRILL STEM TEST REPORT

Sam Gary Jr & Assoc. inc.

1515 Wyrkoop St  
Suite 700 Denver CO 80202

ATTN: Tom Fernald

34-14s-17w Ellis

Bull 1-34

Job Ticket: 44259

DST# 1

Test Start: 2011.10.15 @ 22:45:05

### GENERAL INFORMATION

Formation: **LICF & upper G'**

Deviated: No Whipstock ft (KB)

Time Tool Opened: 00:28:20

Time Test Ended: 06:35:59

Test Type: Conventional Bottom Hole (Initial)

Tester: Andy Carneira

Unit No: 39

Interval: **3290.00 ft (KB) To 3317.00 ft (KB) (TVD)**

Total Depth: 3317.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1954.00 ft (KB)

1944.00 ft (CF)

KB to GRCP: 10.00 ft

Serial #: 8352

Outside

Press@Run Depth: 48.97 psig @ 3291.00 ft (KB)

Start Date: 2011.10.15 End Date: 2011.10.16

Start Time: 22:45:05 End Time: 06:35:59

Capacity: 8000.00 psig

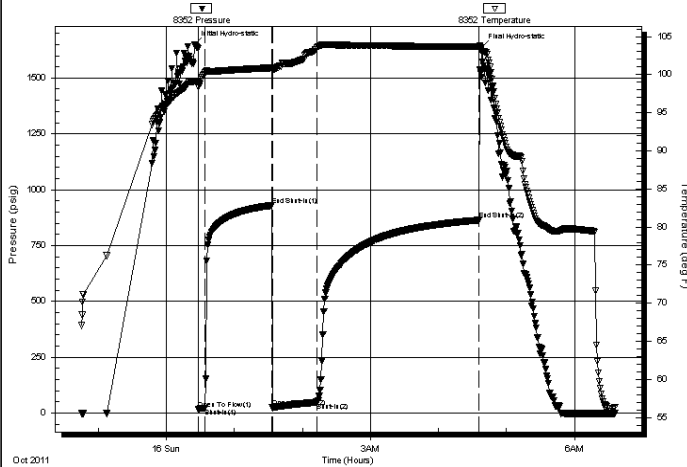
Last Calib.: 2011.10.16

Time On Btm: 2011.10.16 @ 00:25:00

Time Off Btm: 2011.10.16 @ 04:38:20

**TEST COMMENT:** F(5min) 2 inch blow  
IS(60min) No Return  
FF(40min) 4 inch blow in 28 min, 5 inch in 40 min  
FS(140min) No Return

Pressure vs. Time



PRESSURE SUMMARY

Time (Mh)	Pressure (psig)	Temp (deg F)	Action
0	1660.10	99.09	Initial Hydro-static
4	16.66	98.38	Open To Flow(1)
9	22.87	100.29	Shut-h(1)
68	929.29	100.89	End Shut-h(1)
69	24.38	100.57	Open To Flow(2)
108	48.97	103.55	Shut-h(2)
251	863.97	103.66	End Shut-h(2)
254	1635.29	103.04	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	MWw/skim of oil, oil in tool	0.84

Gas Rates

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







**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Sam Gary Jr & Assoc. inc.

1515 Wyrkoop St  
Suite 700 Denver CO 80202

ATTN: Tom Fernal

**34-14s-17w Ellis**

**Bull 1-34**

Job Ticket: 44259

**DST# 1**

Test Start: 2011.10.15 @22:45:05

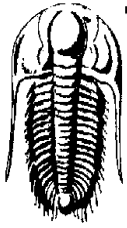
### Tool Information

Drill Pipe:	Length: 3259.00 ft	Diameter: 3.80 inches	Volume: 45.72 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 56000.00 lb
			<u>Total Volume: 45.72 bbl</u>	Tool Chased: 0.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3290.00 ft			Final 46500.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	27.00 ft			
Tool Length:	61.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No	Position	Depth (ft)	Accum Lengths
Recorder	0.00	8647	Fluid	3256.00	
Blank Spacing	5.00			3261.00	
Shut In Tool	5.00			3266.00	
Sampler	2.00			3268.00	
Hydraulic tool	5.00			3273.00	
Jars	5.00			3278.00	
Safety Joint	3.00			3281.00	
Packer	5.00			3286.00	34.00 Bottom of Top Packer
Packer	4.00			3290.00	
Stub	1.00			3291.00	
Recorder	0.00	8017	Inside	3291.00	
Recorder	0.00	8352	Outside	3291.00	
Perforations	23.00			3314.00	
Bullnose	3.00			3317.00	27.00 Bottom Packers & Anchor

**Total Tool Length: 61.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Sam Gary Jr & Assoc. inc.

**34-14s-17w Ellis**

1515 Wyrkopp St  
Suite 700 Denver CO 80202

**Bull 1-34**

Job Ticket: 44259

**DST# 1**

ATTN: Tom Fernal

Test Start: 2011.10.15 @22:45:05

**Mud and Cushion Information**

Mud Type:	Gel Chem	Cushion Type:		CI AP:	deg AP:
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	27000 ppm
Viscosity:	55.00 sec/qt	Cushion Volume:	bbbl		
Water Loss:	8.77 in <sup>3</sup>	Gas Cushion Type:			
Resistivity:	ohm-cm	Gas Cushion Pressure:	psig		
Salinity:	5400.00 ppm				
Filter Cake:	inches				

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbbl
60.00	MWw/skim of oil, oil in tool	0.842

Total Length: 60.00 ft      Total Volume: 0.842 bbl

Num Fluid Samples: 0      Num Gas Bonts: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments: Resistivity-.31@57deg=27000  
Sampler-g=n/a ma=2200nh w=800nh press=40lbs

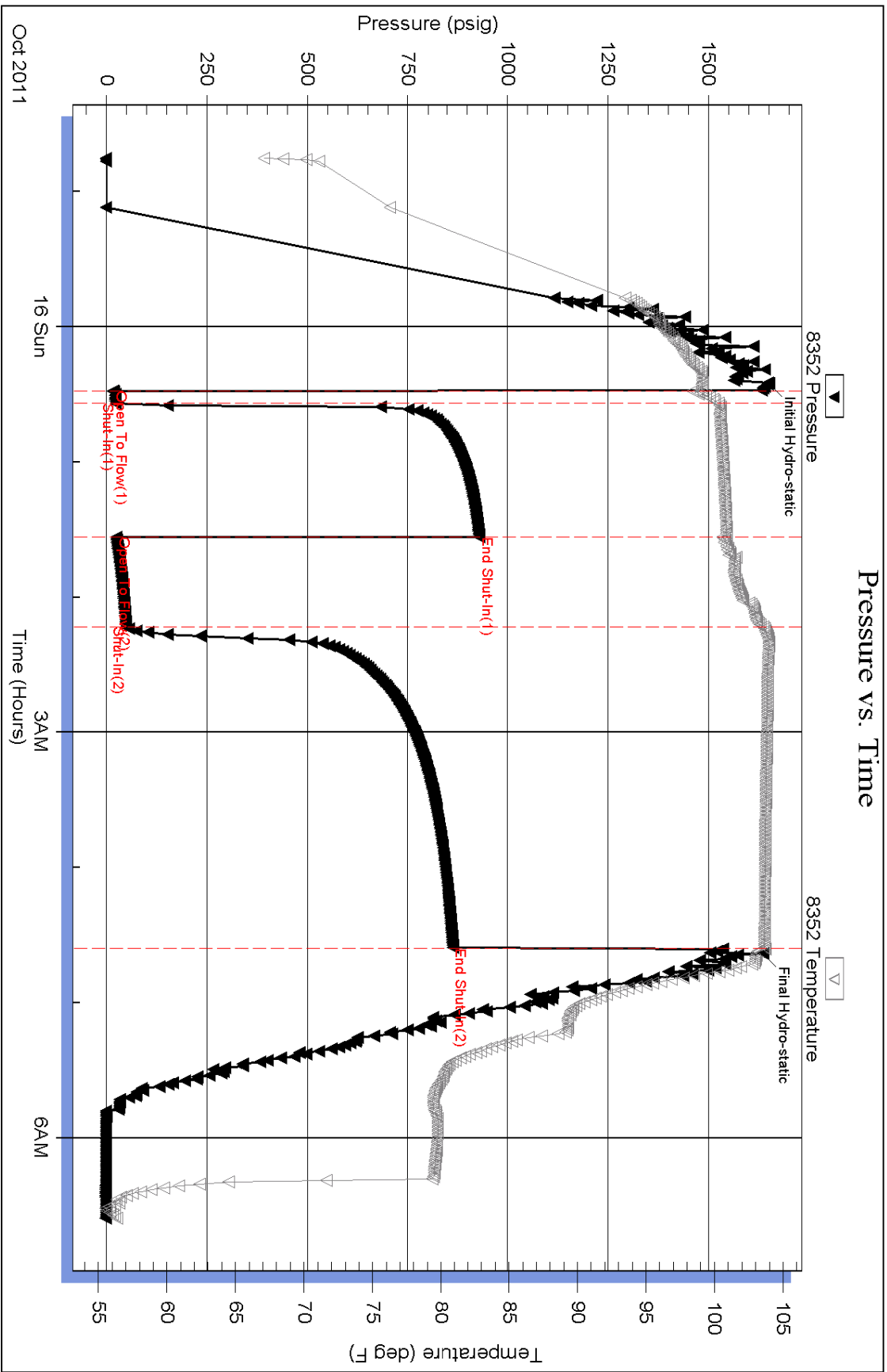
Serial #: 8352

Outside Sam Gary Jr & Assoc. Inc.

Bull 1-34

DST Test Number: 1

### Pressure vs. Time



Trioxide Testing, Inc.

Ref. No: 44259

Printed: 2011.10.16 @06:19:25

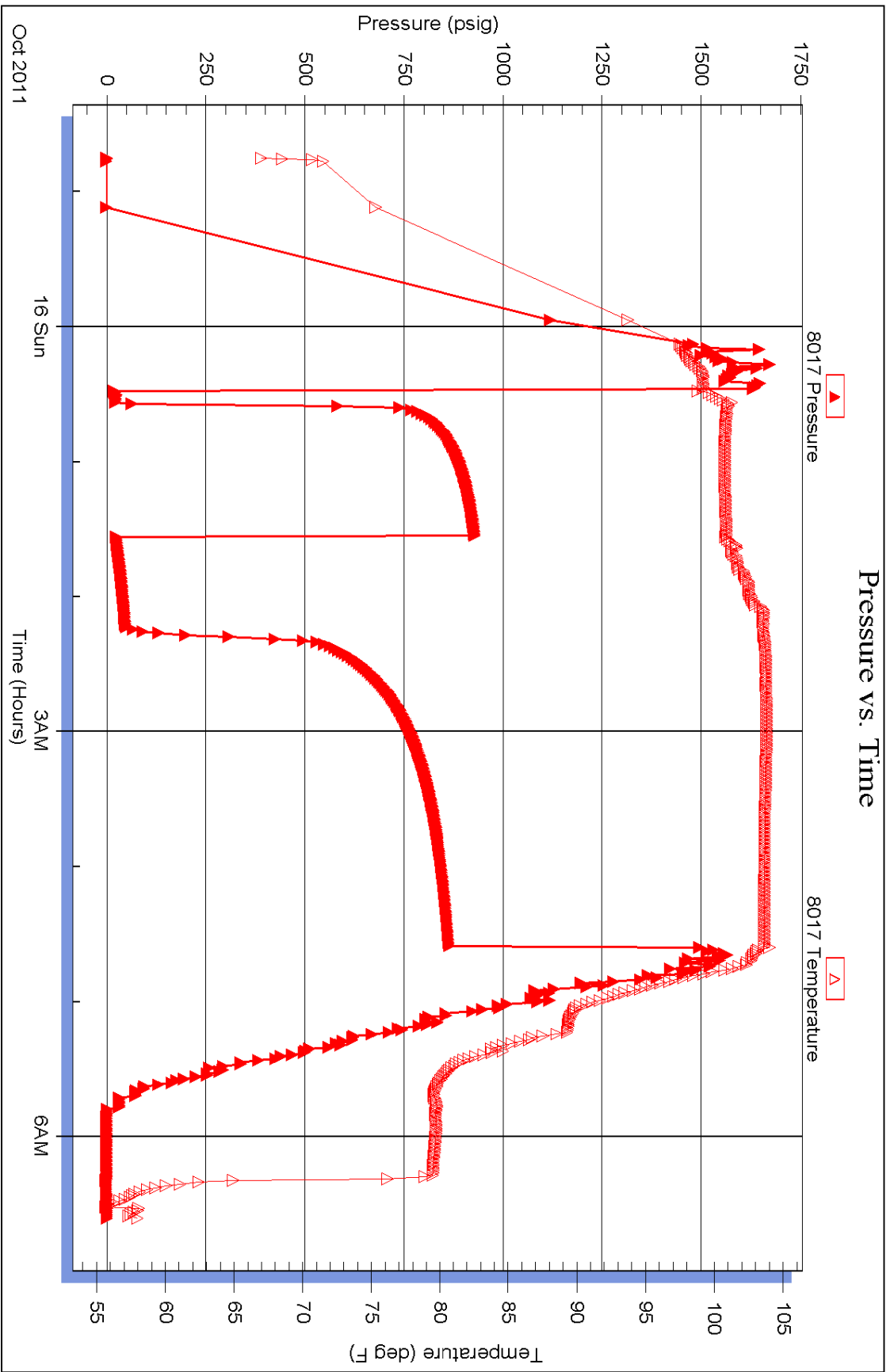
Serial #: 8017

Inside

Sam Gary Jr & Assoc. Inc.

Bull 1-34

DST Test Number: 1



Trioxide Testing, Inc.

Ref. No: 44259

Printed: 2011.10.16 @06:19:29



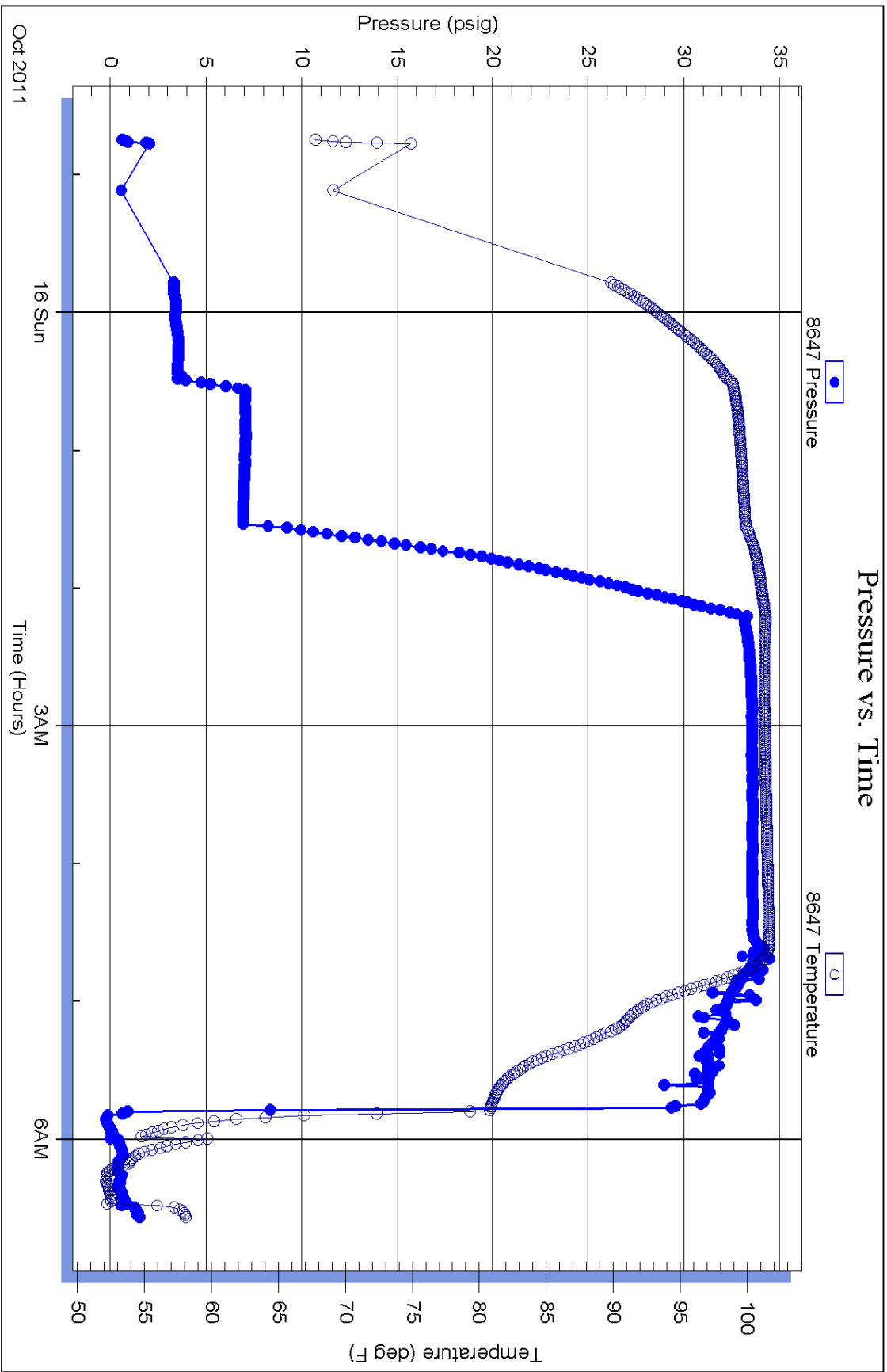
Serial #: 8647

Fluid

Sam Gary Jr & Assoc. Inc.

Bull 1-34

DST Test Number: 1

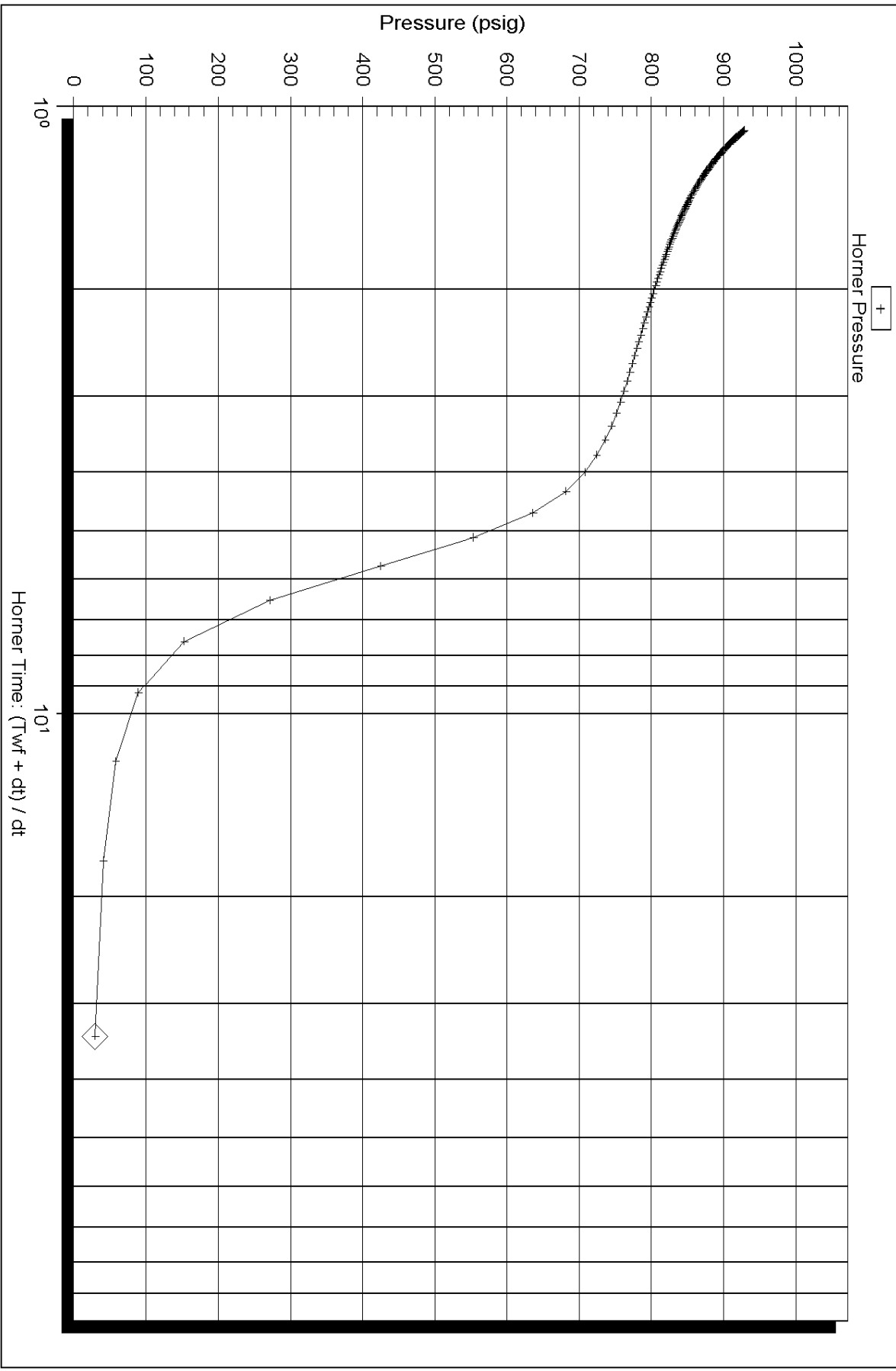


Trioxide Testing, Inc.

Ref. No: 44239

Printed: 2011.10.16 @06:19:30

### Horner Plot



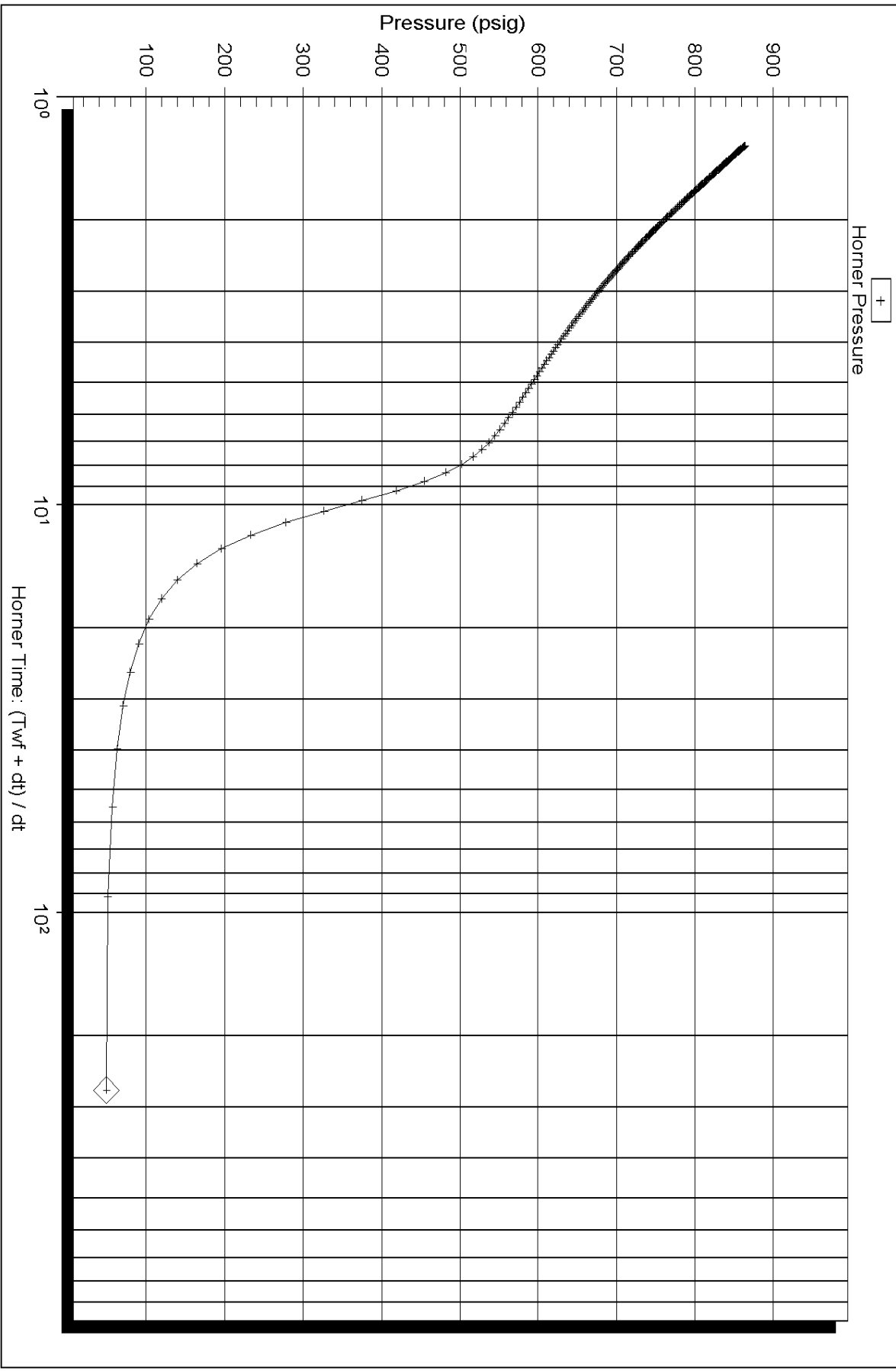
Serial Number: 8862 (Outside)

P<sub>w</sub>:

Slope (m) : kpa/log cycle

Flow Cycle: 1

### Horner Plot



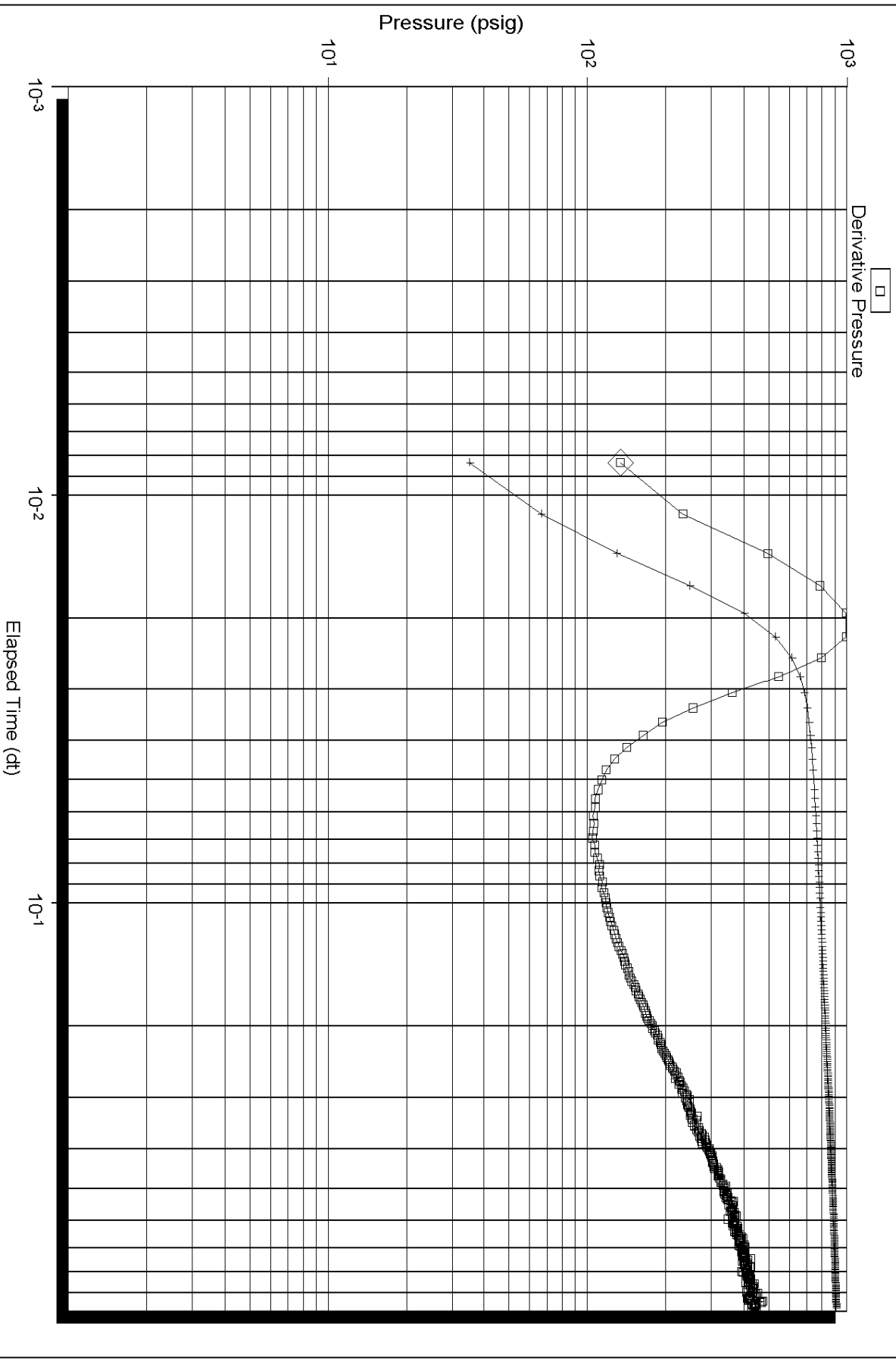
Serial Number: 8862 (Outside)

P<sub>w</sub>:

Slope (m) : kpa/log cycle

Flow Cycle: 2

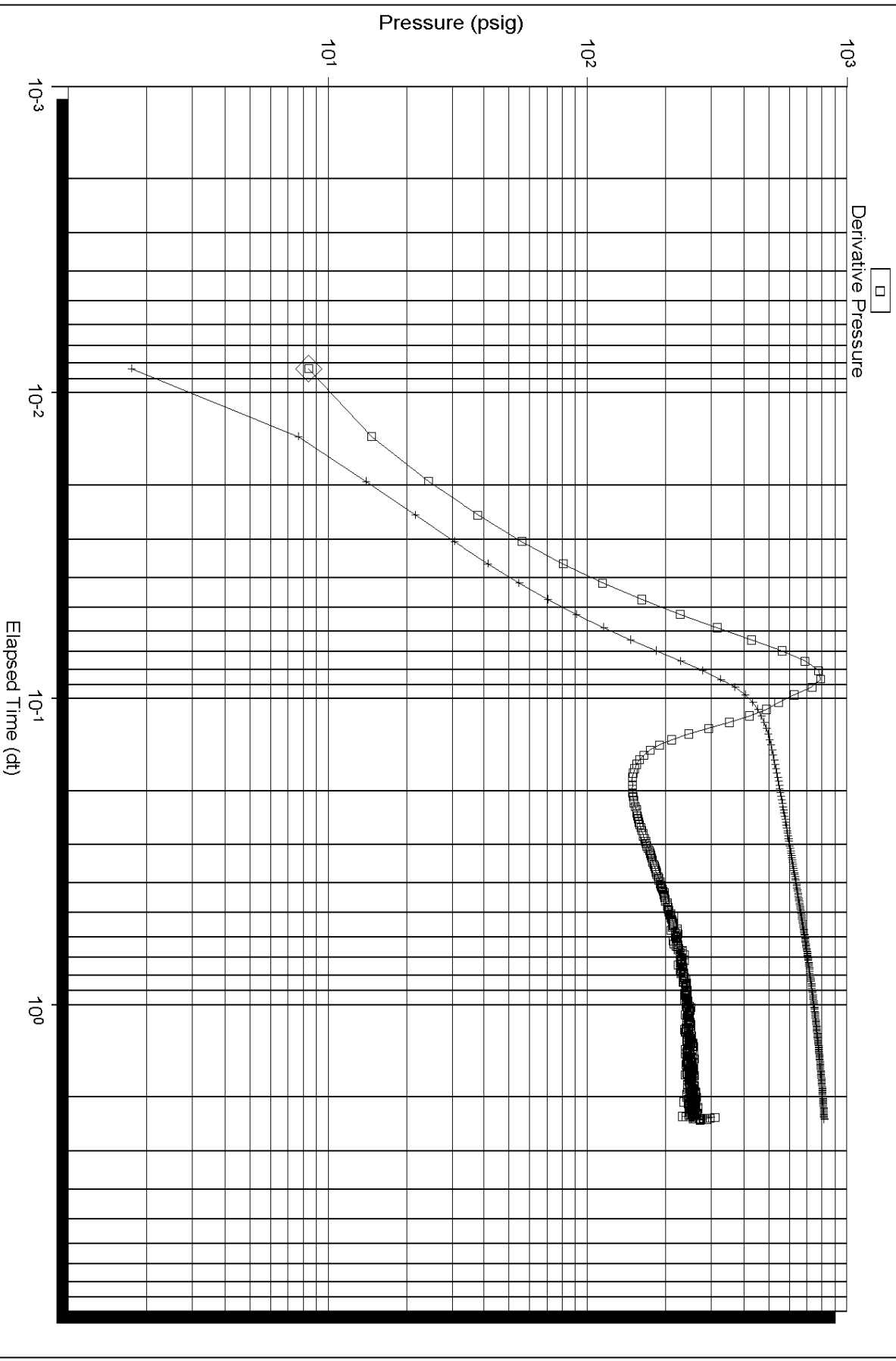
### Log-Log and Pseudo-Derivative



Serial Number: 8862 (Outside)

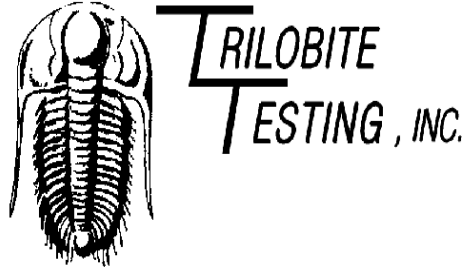
Flow Cycle: 1

# Log-Log and Pseudo-Derivative



Serial Number: 8862 (Outside)

Flow Cycle: 2



## DRILL STEMTEST REPORT

Prepared For: **Sam Gary Jr & Assoc. inc.**

1515 Wynkoop St  
Suite 700 Denver CO 80202

ATTN Tom Feral

### **Bull 1-34**

### **34-14s-17w Ellis**

Start Date 2011.10.16 @ 20:15:05

End Date 2011.10.17 @ 02:52:09

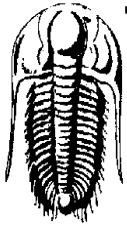
Job Ticket # 44260 DST # 2

Trilobite Testing Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed 2011.10.17 @ 03:11:24



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Sam Gary Jr & Assoc. inc.

1515 Wyrkopp St  
Suite 700 Denver CO 80202

ATTN: Tom Fernald

**34-14s-17w Ellis**

**Bull 1-34**

Job Ticket: 44260

**DST# 2**

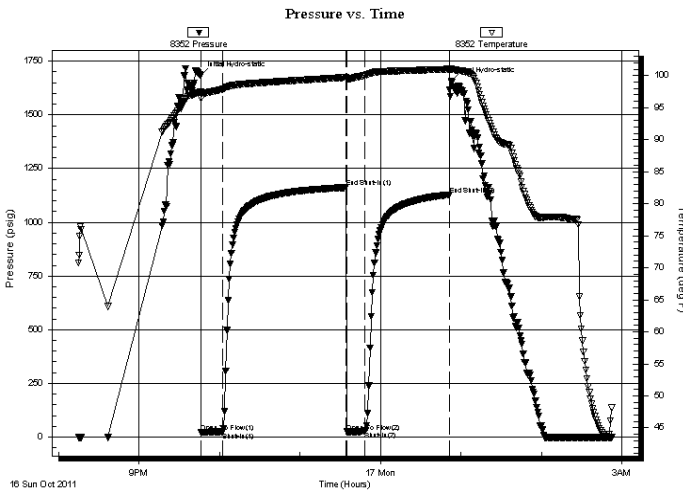
Test Start: 2011.10.16 @ 20:15:05

## GENERAL INFORMATION

Formation: **LK1,JK**  
 Deviated: No Whipstock ft (KB)  
 Time Tool Opened: 21:46:20  
 Time Test Ended: 02:52:09  
 Interval: **3380.00 ft (KB) To 3431.00 ft (KB) (TVD)**  
 Total Depth: 3431.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Andy Carneira  
 Unit No: 39  
 Reference Elevations: 1954.00 ft (KB)  
 1944.00 ft (CF)  
 KB to GRCP: 10.00 ft

**Serial #: 8352** Outside  
 Press@Run Depth: 2640 psig @ 3386.00 ft (KB)  
 Start Date: 2011.10.16 End Date: 2011.10.17  
 Start Time: 20:15:05 End Time: 02:52:10  
 Capacity: 8000.00 psig  
 Last Calib.: 2011.10.17  
 Time On Btm: 2011.10.16 @ 21:46:00  
 Time Off Btm: 2011.10.17 @ 00:52:29

**TEST COMMENT:** F:(15min) Weak surface blow  
 IS(90min) No Return  
 FF:(15min) No Blow  
 FS(60min) No Return

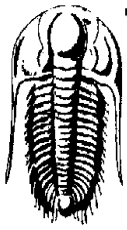


PRESSURE SUMMARY			
Time (Mh)	Pressure (psig)	Temp (deg F)	Action
0	1685.56	97.46	Initial Hydrostatic
1	20.64	96.46	Open To Flow(1)
17	24.44	97.89	Shut-h(1)
109	1161.26	99.75	End Shut-h(1)
109	24.75	99.46	Open To Flow(2)
123	26.40	100.06	Shut-h(2)
185	1128.68	101.02	End Shut-h(2)
187	1657.69	101.02	Final Hydrostatic

Recovery		
Length (ft)	Description	Volume (bbl)
15.00	Mud w/ slight oil spks in tool	0.21

Gas Rates			
	Orde (inches)	Pressure (psig)	Gas Rate (Mcf/d)

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

# DRILL STEMTEST REPORT

Sam Gary Jr & Assoc. Inc.

1515 Wyrkoop St  
Suite 700 Denver CO 80202

ATTN: Tom Fertal

34-14s-17w Ellis

**Bull 1-34**

Job Ticket: 44260

**DST# 2**

Test Start: 2011.10.16 @ 20:15:05

## GENERAL INFORMATION

Formation: **LK1,JK'**

Deviated: No Whipstock ft (KB)

Time Tool Opened: 21:46:20

Time Test Ended: 02:52:09

Test Type: Conventional Bottom Hole (Reset)

Tester: Andy Carneira

Unit Nr: 39

Interval: **3380.00 ft (KB) To 3431.00 ft (KB) (TVD)**

Total Depth: 3431.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1954.00 ft (KB)

1944.00 ft (CF)

KB to GRCF: 10.00 ft

**Serial #: 8017** Inside

Press@Run Depth: psig @ 3386.00 ft (KB)

Start Date: 2011.10.16

End Date:

2011.10.17

Capacity: 8000.00 psig

Last Calib:

2011.10.17

Start Time: 20:15:05

End Time:

02:51:59

Time On Btm

Time Off Btm

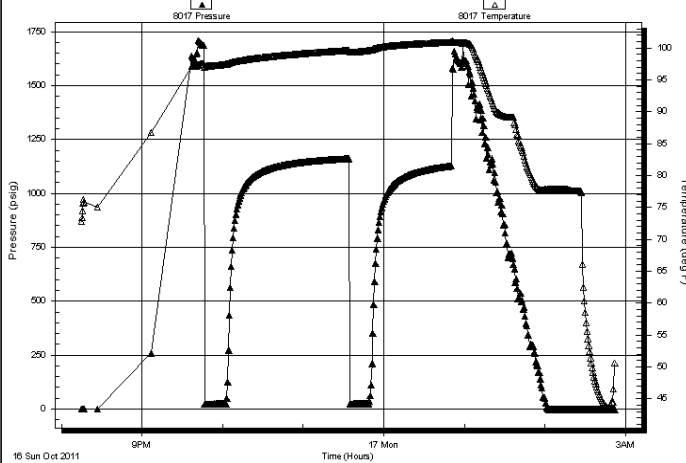
**TEST COMMENT:** F(15min) Weak surface blow

IS(90min) No Return

FF(15min) No Blow

FS(60min) No Return

Pressure vs. Time



PRESSURE SUMMARY

Time (Mh)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

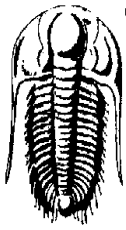
Length (ft)	Description	Volume (bbl)
15.00	Mud w/ slight oil spots in tool	0.21

\* Recovery from multiple tests

Gas Rates

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





**TRILOBITE  
TESTING, INC**

### DRILL STEM TEST REPORT

Sam Gary Jr & Assoc. Inc.  
1515 Wyrkopp St  
Suite 700 Denver CO 80202  
ATTN: Tom Ferial

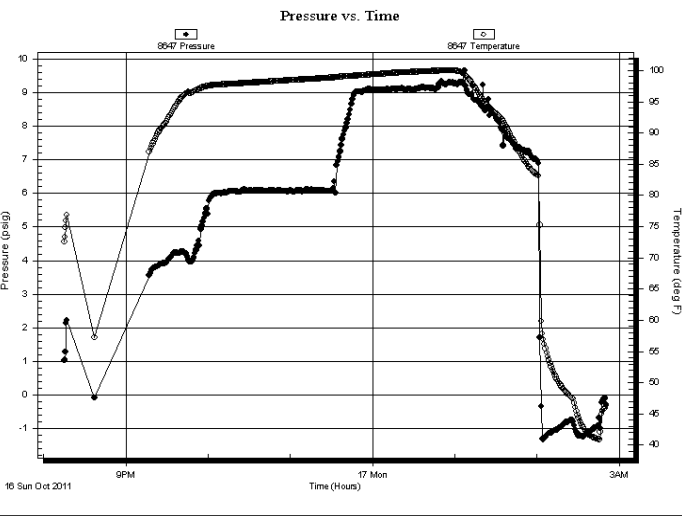
**34-14s-17w Ellis**  
**Bull 1-34**  
Job Ticket: 44260 **DST# 2**  
Test Start: 2011.10.16 @ 20:15:05

**GENERAL INFORMATION**

Formation: **LK1,JK**  
 Deviated: **No Whipstock** ft (KB)  
 Test Type: **Conventional Bottom Hole (Reset)**  
 Time Tool Opened: **21:46:20**  
 Tester: **Andy Carneira**  
 Time Test Ended: **02:52:09**  
 Unit No: **39**  
**Interval: 3380.00 ft (KB) To 3431.00 ft (KB) (TVD)**  
 Reference Elevations: **1954.00 ft (KB)**  
 Total Depth: **3431.00 ft (KB) (TVD)**  
 Reference Elevations: **1944.00 ft (CF)**  
 Hole Diameter: **7.88 inches Hole Condition Fair**  
 KB to GRCP: **10.00 ft**

**Serial #: 8647 Fluid**  
 Press@Run Depth: **psig @ 3346.00 ft (KB)** Capacity: **8000.00 psig**  
 Start Date: **2011.10.16** End Date: **2011.10.17** Last Calib.: **2011.10.17**  
 Start Time: **20:15:05** End Time: **02:50:29** Time On Btm:  
 Time Off Btm:

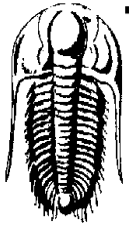
**TEST COMMENT:**  
 F:(15min) Weak surface blow  
 IS:(90min) No Return  
 FF:(15min) No Blow  
 FS:(60min) No Return



PRESSURE SUMMARY			
Time (Mh)	Pressure (psig)	Temp (deg F)	Annotation

Recovery		
Length (ft)	Description	Volume (bbl)
15.00	Mud w/ slight oil spks in tool	0.21

Gas Rates			
	Orde (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Sam Gary Jr & Assoc. inc.

1515 Wyrkoop St  
Suite 700 Denver CO 80202

ATTN: Tom Fernal

**34-14s-17w Ellis**

**Bull 1-34**

Job Ticket: 44260

**DST# 2**

Test Start: 2011.10.16 @20:15:05

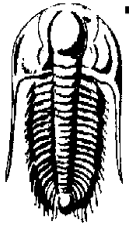
### Tool Information

Drill Pipe:	Length: 3353.00 ft	Diameter: 3.80 inches	Volume: 47.03 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 54000.00 lb
			<u>Total Volume: 47.03 bbl</u>	Tool Chased: 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3380.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	51.00 ft			
Tool Length:	85.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No	Position	Depth (ft)	Accum Lengths
Recorder	0.00	8647	Fluid	3346.00	
Blank Spacing	5.00			3351.00	
Shut In Tool	5.00			3356.00	
Sampler	2.00			3358.00	
Hydraulic tool	5.00			3363.00	
Jars	5.00			3368.00	
Safety Joint	3.00			3371.00	
Packer	5.00			3376.00	34.00 Bottom of Top Packer
Packer	4.00			3380.00	
Stub	1.00			3381.00	
Perforations	4.00			3385.00	
Change Over Sub	1.00			3386.00	
Recorder	0.00	8017	Inside	3386.00	
Recorder	0.00	8352	Outside	3386.00	
Drill Pipe	31.00			3417.00	
Change Over Sub	1.00			3418.00	
Perforations	10.00			3428.00	
Bullnose	3.00			3431.00	51.00 Bottom Packers & Anchor

**Total Tool Length: 85.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Sam Gary Jr & Assoc. inc.

**34-14s-17w Ellis**

1515 Wyrkoop St  
Suite 700 Denver CO 80202

**Bull 1-34**

Job Ticket: 44260

**DST# 2**

ATTN: Tom Fernal

Test Start: 2011.10.16 @20:15:05

**Mud and Cushion Information**

Mud Type:	Gel Chem	Cushion Type:		CI AP:	deg AP
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	56.00 sec/qt	Cushion Volume:	bbd		
Water Loss:	8.77 in <sup>3</sup>	Gas Cushion Type:			
Resistivity:	ohm-cm	Gas Cushion Pressure:	psig		
Salinity:	6200.00 ppm				
Filter Cake:	inches				

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbd
15.00	Mud w/ slight oil spots in tool	0.210

Total Length: 15.00 ft      Total Volume: 0.210 bbd

Num Fluid Samples: 0      Num Gas Bonts: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments: Sampler- oil-tr mud-3000rhp press=90lbs

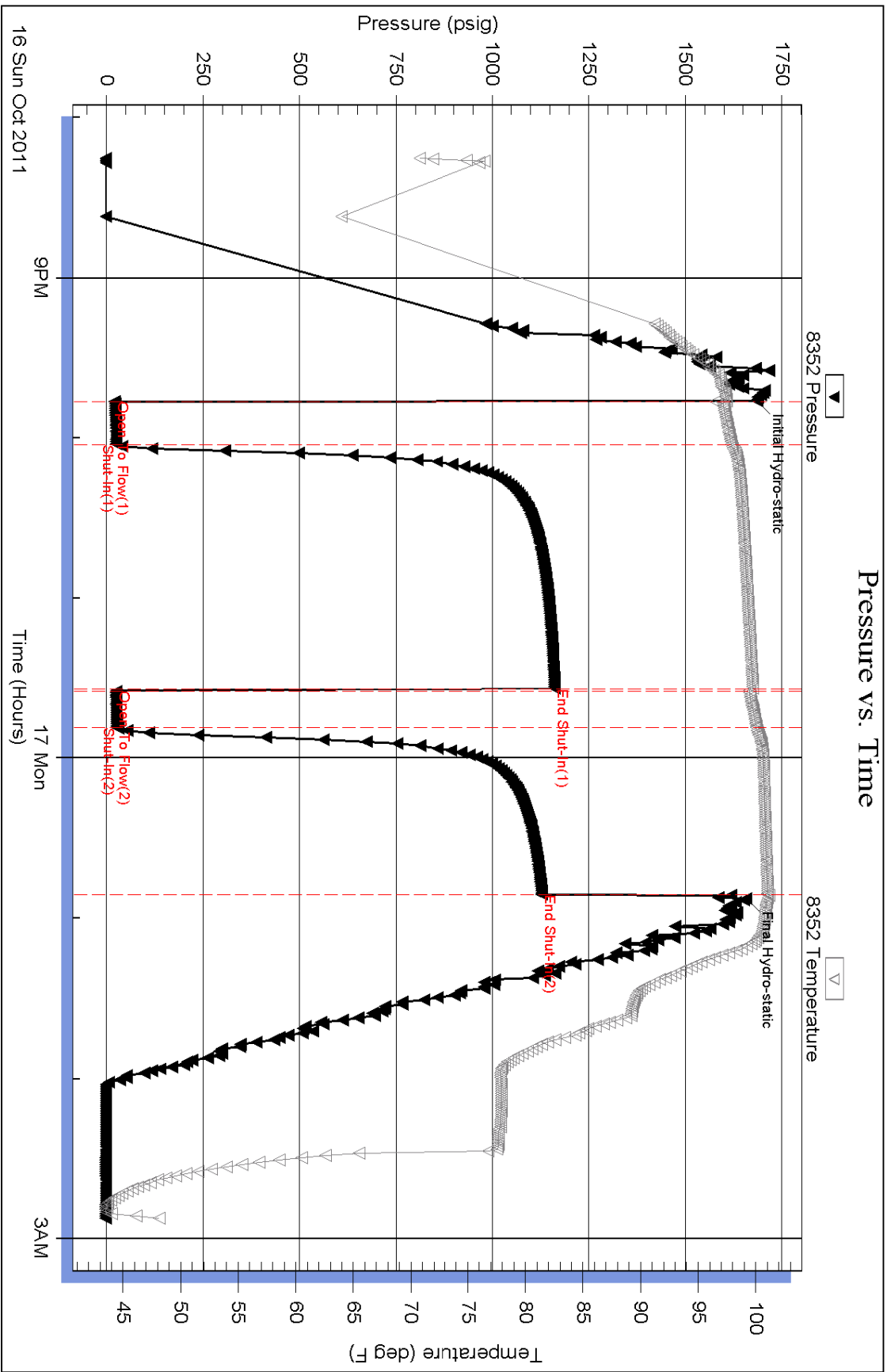
Serial #: 8362

Outside SamGary Jr & Assoc. Inc.

Bull 1-34

DST Test Number: 2

### Pressure vs. Time



Triokite Testing, Inc.

Ref. No: 44260

Printed: 2011.10.17 @03:11:29

Serial #: 8017

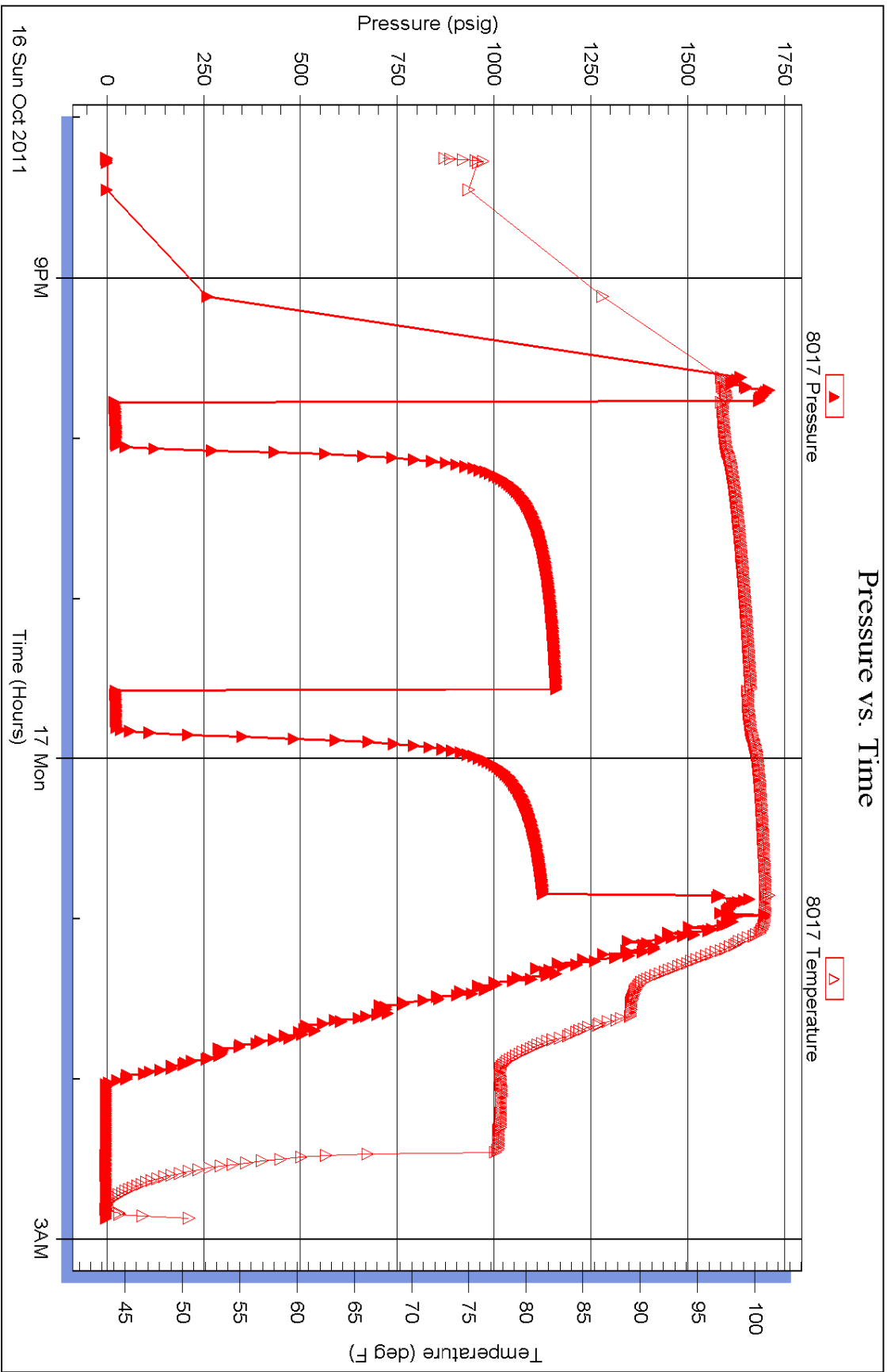
Inside

Sam Gary Jr & Assoc. Inc.

Bull 1-34

DST Test Number: 2

### Pressure vs. Time



Trioxide Testing, Inc.

Ref. No: 44260

Printed: 2011.10.17 @03:11:31

Serial #: 8647

Fluid

Sam Gary Jr & Assoc. Inc.

Bull 1-34

DST Test Number: 2

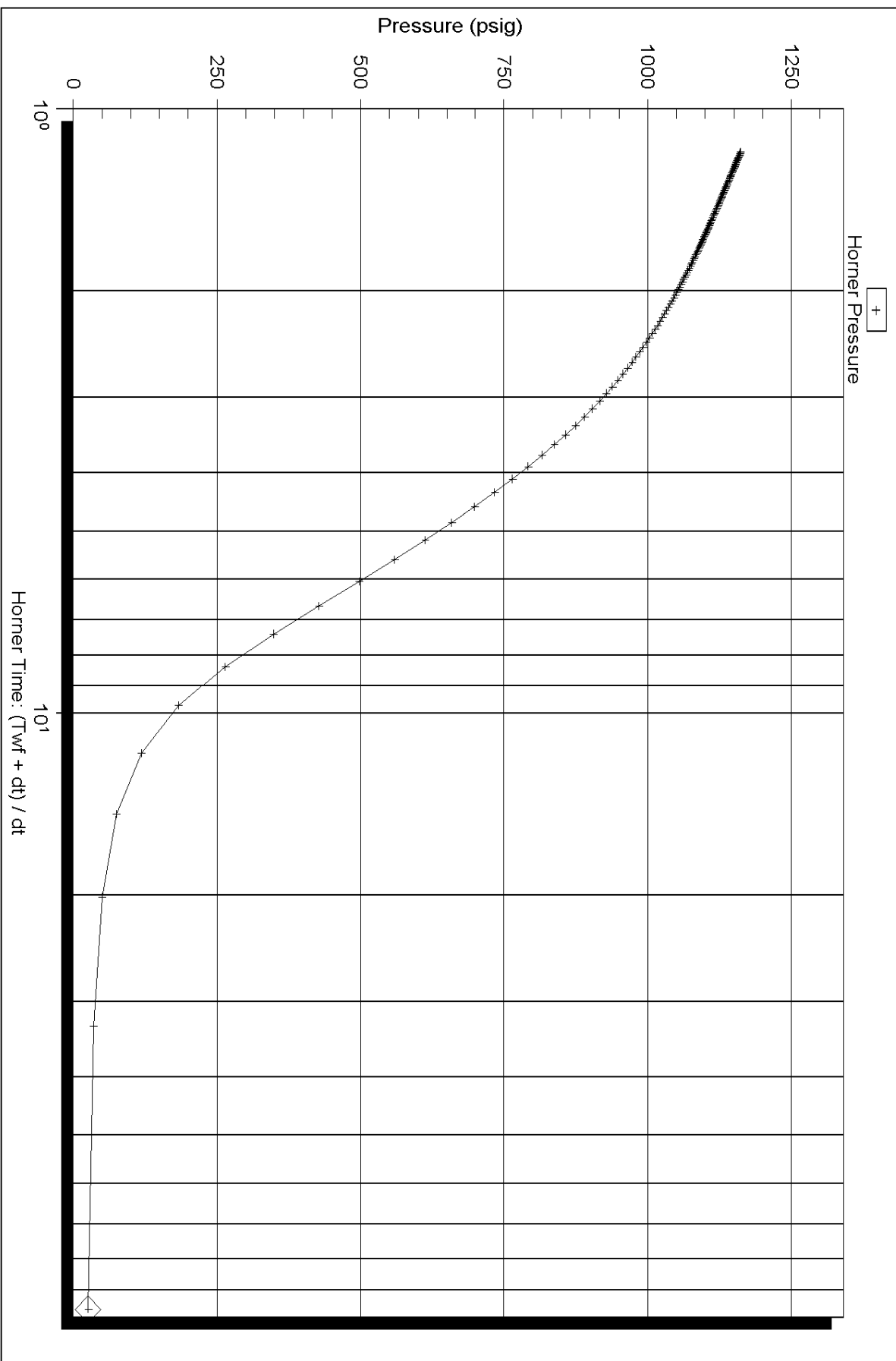


Trioxide Testing, Inc.

Ref. No: 44260

Printed: 2011.10.17 @03:11:36

### Horner Plot



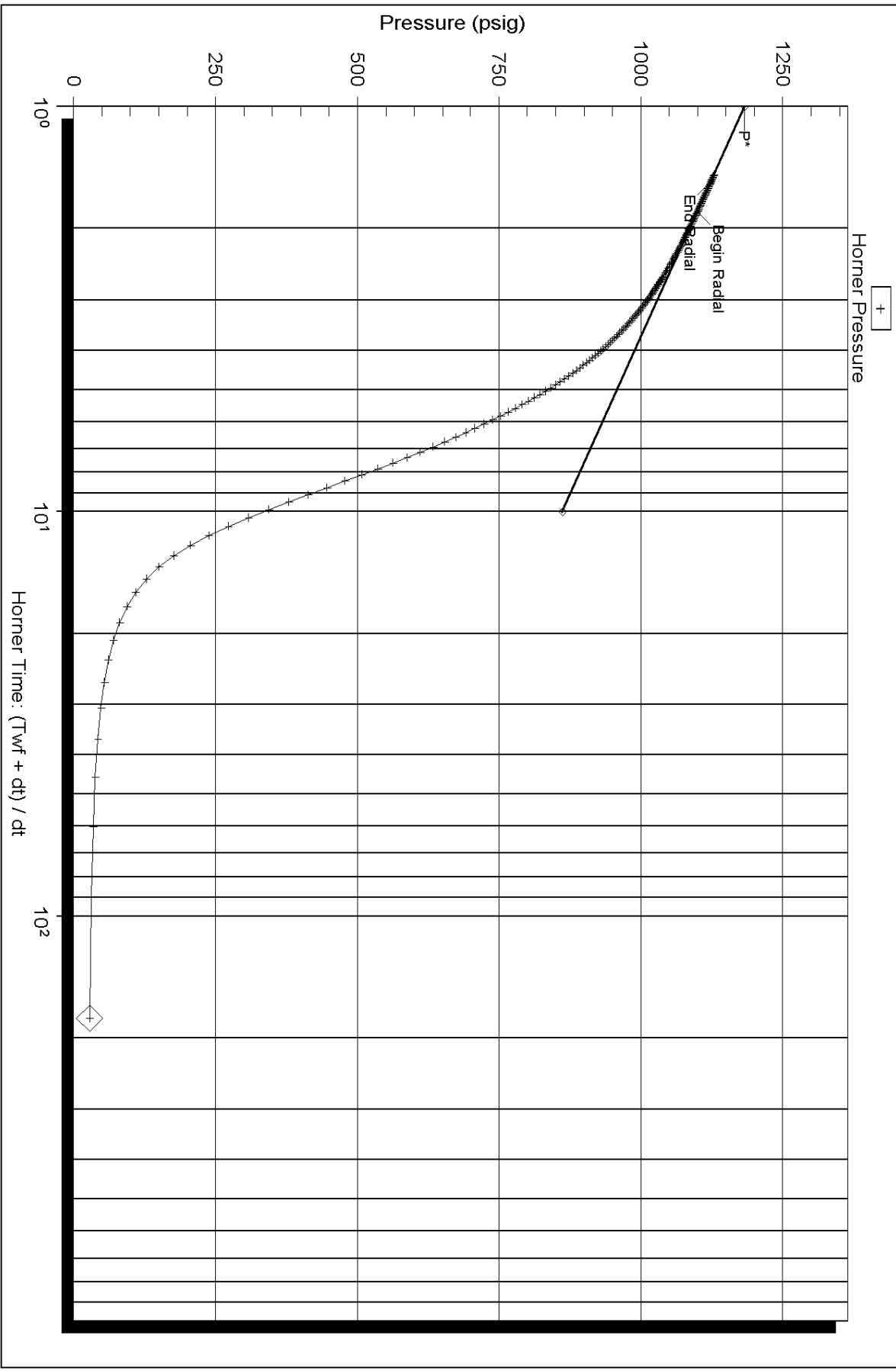
Serial Number: 8862 (Outside)

P\* :

Slope (m) : kpa/log cycle

Flow Cycle: 1

# Horner Plot



Serial Number: 8862 (Outside)

P\* : 1182.73

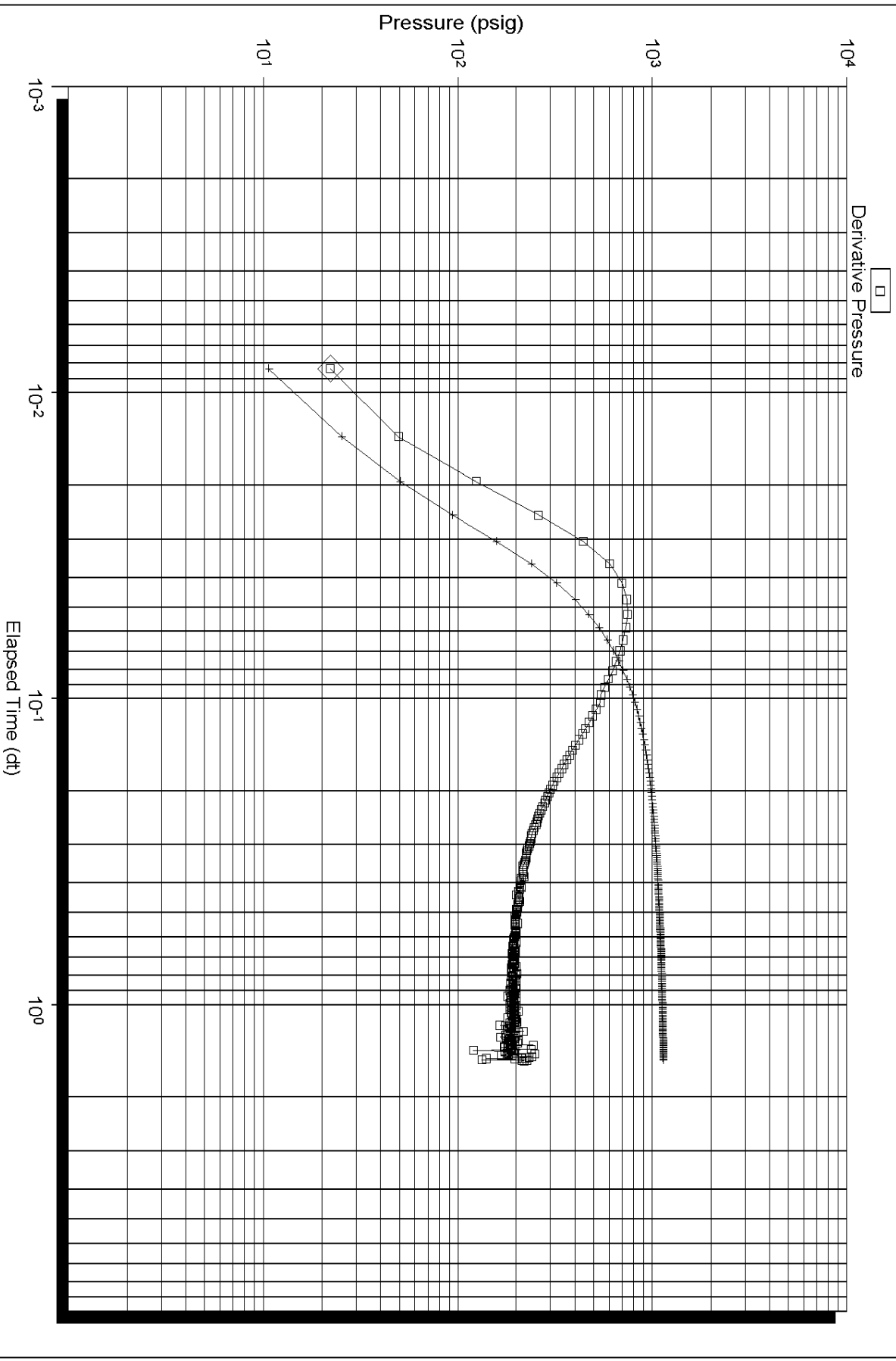
Slope (m) : 320.65 kpa/log cycle

Flow Cycle: 2

Horner Time: (T<sub>wf</sub> + dt) / dt



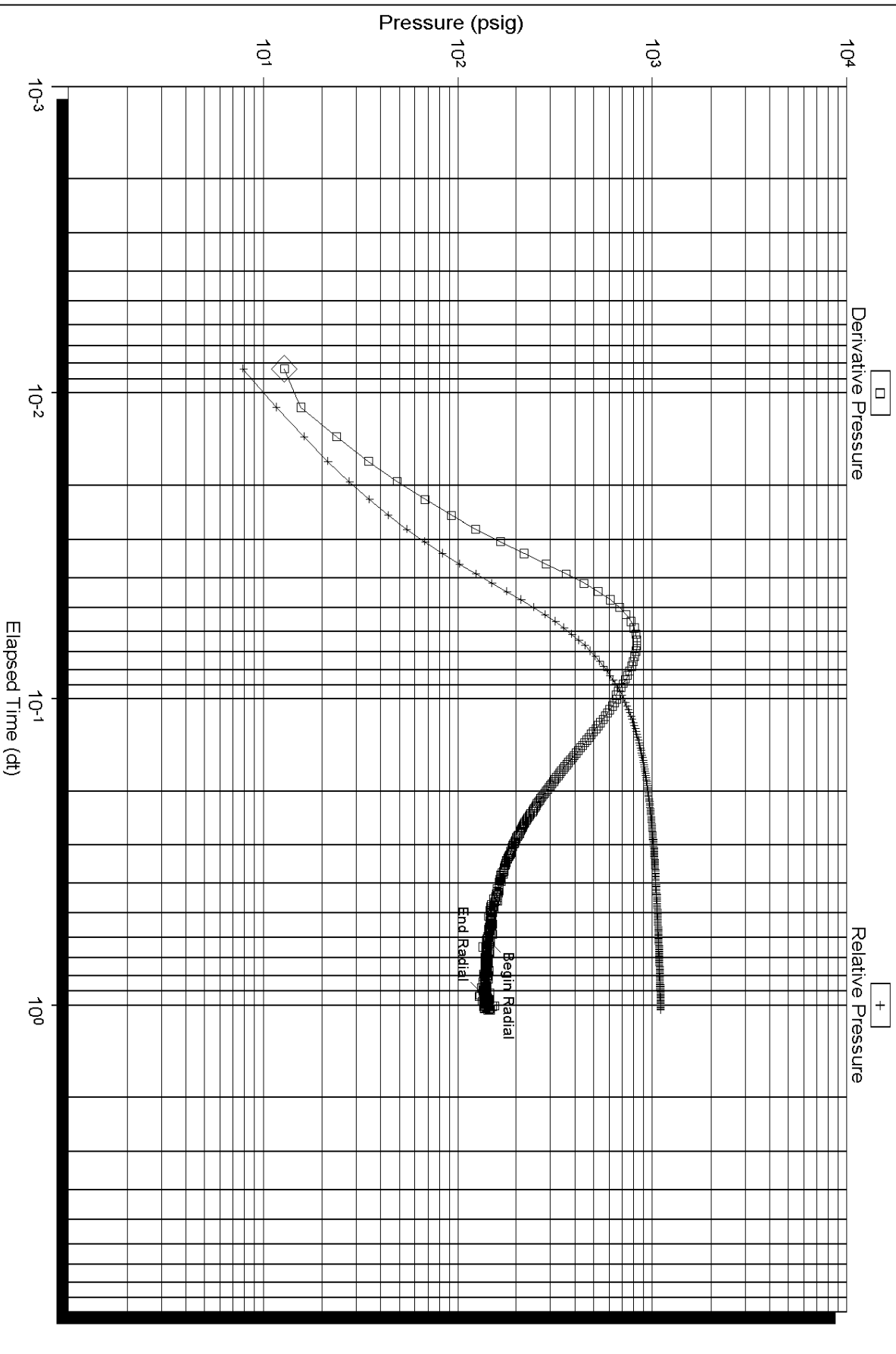
# Log-Log and Pseudo-Derivative



Serial Number: 8862 (Outside)

Flow Cycle: 1

# Log-Log and Pseudo-Derivative



Serial Number: 8862 (Outside)

Flow Cycle: 2



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

Well Name: Brull 1-34 Ellis County, KS  
 Location: Sec. 34-14S-17W  
 License Number: 15-051-26188-0000  
 Spud Date: 10-11-2011  
 Surface Coordinates: 2310' FNL / 400' FEL  
 Region: Wildcat  
 Drilling Completed: 10/17/2011

Bottom Hole Coordinates:  
 Ground Elevation (ft): 1944' K.B. Elevation (ft): 1954'  
 Logged Interval (ft): 1800' To: 3670' Total Depth (ft): 3670'  
 Formation: Lansing, Kansas City  
 Type of Drilling Fluid: Natural Chemical

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

**OPERATOR**

Company: Sam Gary Jr. & Assoc  
 Address: 1515 Wynkoop, # 700  
 Denver, Co. 80202  
 Geo: Tom Fertal

**GEOLOGIST**



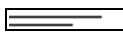
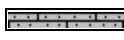
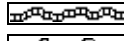


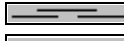
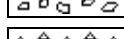


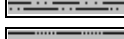
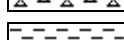



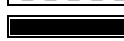



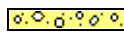
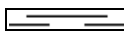
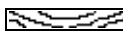


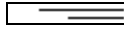




Name: Tim Hedrick/Jeff Quimby  
 Company: EARTH TECH OGL, Inc.  
 Address: PO Box 683  
 102 W. Main  
 Hooker, Okla. 73945

**DSTs**

DST#1 3290'-3317'  
 IF: 2" BLOW FF:NO RETURN,  
 IF: 4" IN 28 MIN, 5" IN 40 MIN, FS: NO RETURN  
 RECOVERY 60', 100% MUD/SPOTTY OIL  
 IH:1650  
 FIF:16  
 FFF:22  
 ISI:929  
 SIF:24  
 SFF:48  
 FSI:863  
 FH:1635  
 TIMES:5,60,40,140

DST#2 3380'-3431'  
 IF: WEAK SURFACE BLOW FF:NO RETURN,  
 IF: NO BLOW, FS: NO RETURN  
 RECOVERY 15', 100% MUD/SPECKS OIL  
 IH:1685  
 FIF:20  
 FFF:24  
 ISI:1161  
 SIF:24  
 SFF:26  
 FSI:1128  
 FH:1657  
 TIMES:15,90,15,60

**ROCK TYPES**

 Anhy	 Gyp	 Shgy	 Sandylms
 Bent	 Igne	 Sltst	 Shale
 Brec	 Lmst	 Ss	 Sltstn
 Cht	 Meta	 Till	 Shlyslts
 Clyst	 Mrlst	 Carb sh	 Sltsh
 Coal	 Salt	 Dol	 Lms
 Congl	 Shale	 Dtd	
 Dol	 Shcol	 Gry sh	

**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
- Sltly

**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**

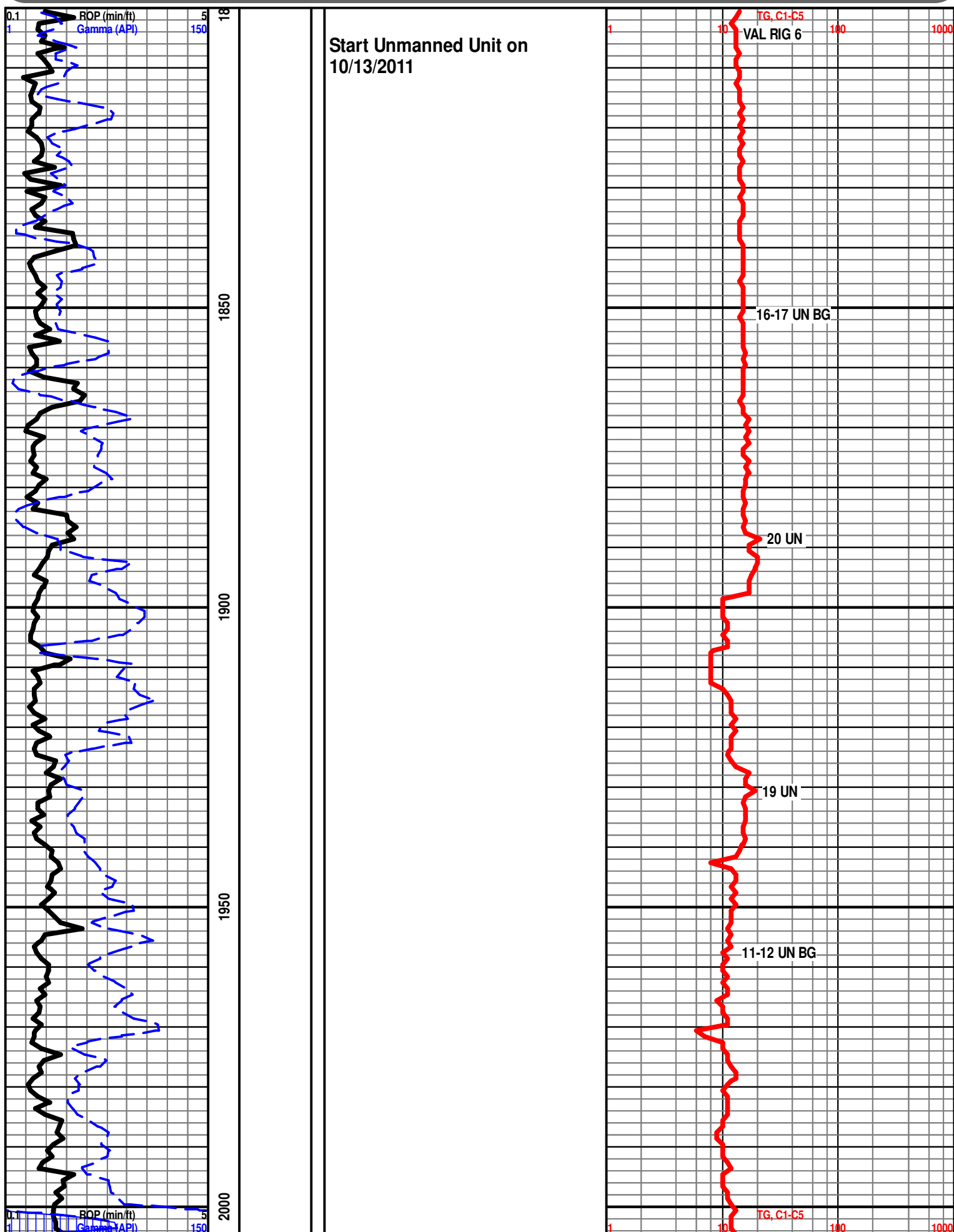
- Even
- Spotted
- Ques
- Dead
- Gas show

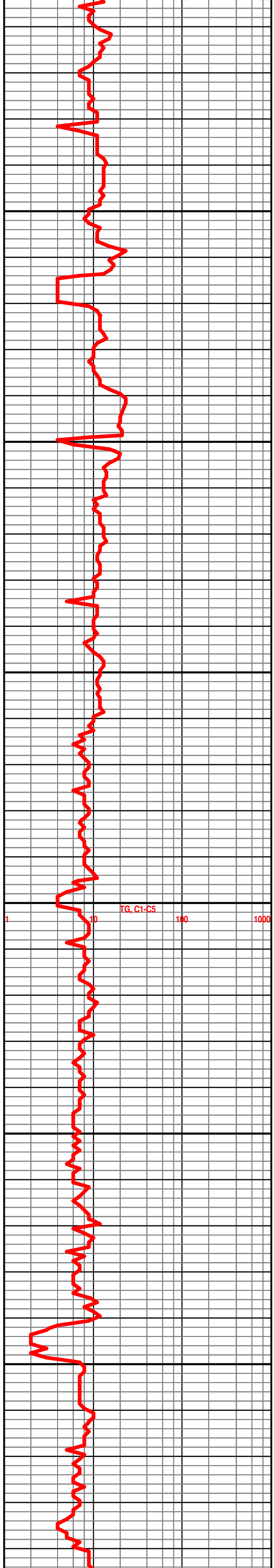
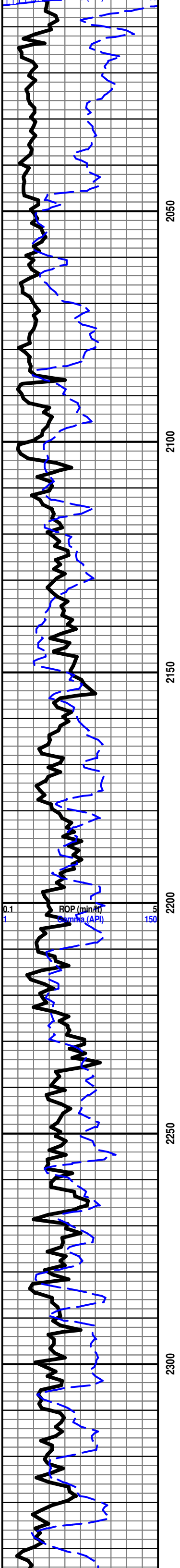
**INTERVALS**

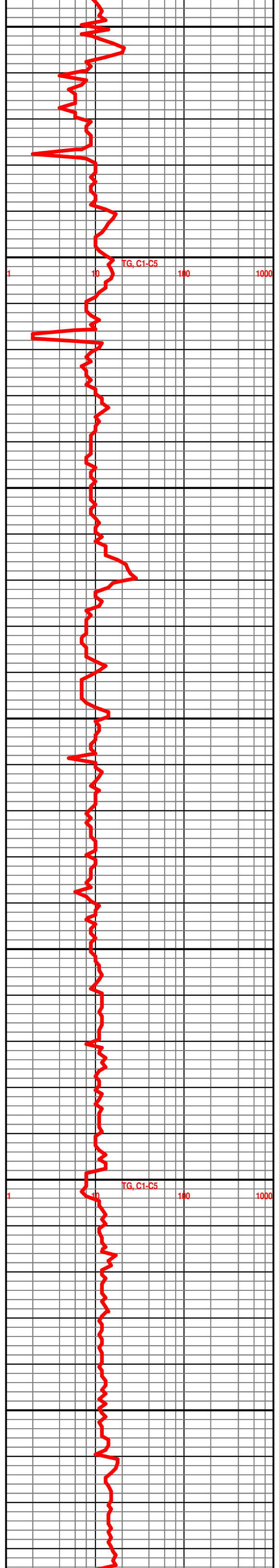
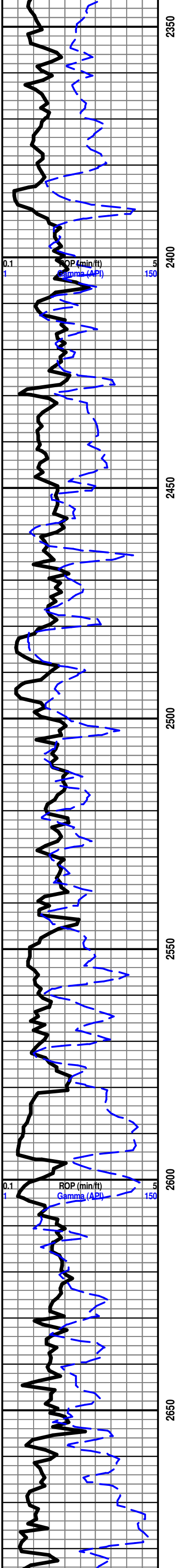
- Core
- Dst
- Dst

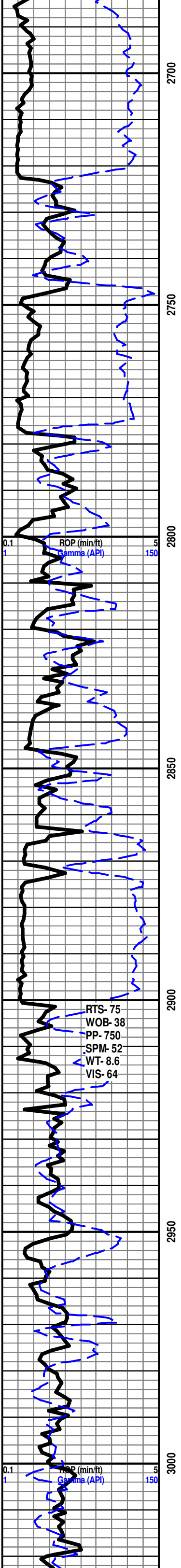
**EVENTS**

- Rft
- Sidewall









**BASE ROOT SHALE 2723' -769'**

**START MANNED UNIT 10/14/2011 @ 7:30 PM**

SH- GRY TO DK GRY, SFT, BLKY SLI GUMMY

**HOWARD 2901' -947'**

LS- LT GRY CRM, HD DNS TO BRITT, FN XLN REXLN MTRX, SLI TR IMBD CALC XLS IP, IMBD FOSS FRAGS SCAT IP, SLI TR FRM TO SFT WHT CHLK IP, DLL YEL FLO SCAT THRU, NO VIS POR, NO VIS CUT, NO VIS SHOW

SH- GRY TO DK GRY, FRM TO SFT IP, BLKY

LS- LT GRY CRM, HD DNS TO BRITT, FN XLN REXLN MTRX, SLI TR IMBD CALC XLS IP, IMBD FOSS FRAGS SCAT IP, TR SFT WHT CHLK SCAT IP, DLL YEL FLO SCAT THRU, NO VIS POR, NO VIS CUT, NO VIS SHOW

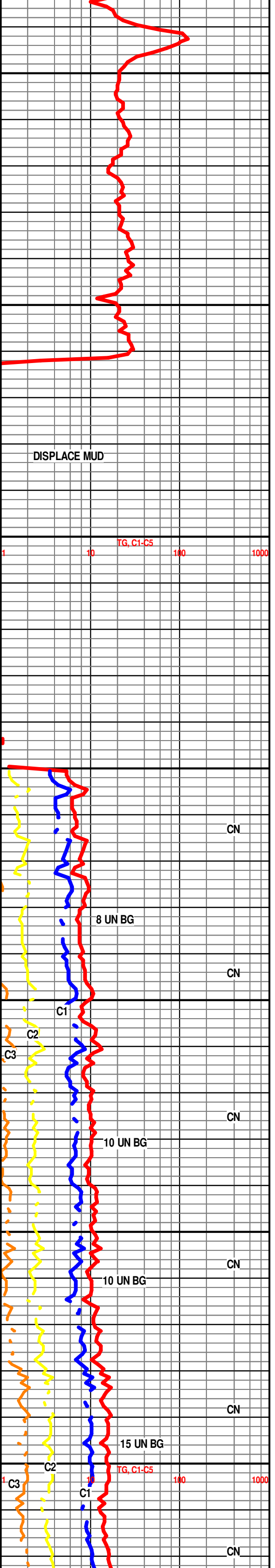
SH- GRY TO DK GRY, FRM, SMTH BLKY

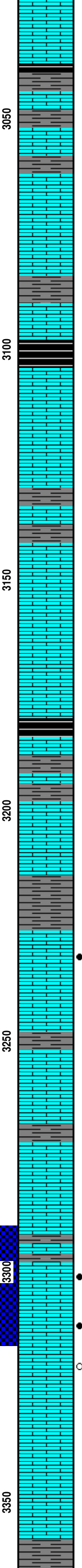
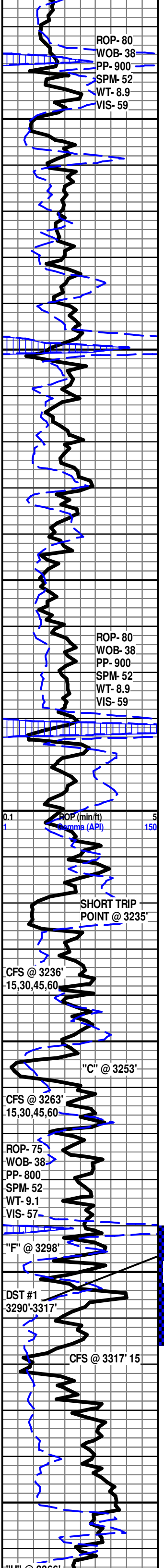
**TOPEKA 2958' -1004'**

LS- LT GRY CRM LT TN, HD DNS TO BRITT, FN TO MD XLN, REXLN MTRX SCAT THRU, IMBD CALC XLS IP, IMBD FOSS FRAGS IP, TR DISS PYR IP, SLI TR IMBD GRY SH, SFT WHT CHLK SCAT THRU, DLL YEL FLO SCAT IP, TR PR MICRO PP POR, NO VIS CUT, NO VIS SHOW

LS- LT GRY CRM LT TN, HD DNS TO BRITT, FN XLN REXLN MTRX SCAT THRU, IMBD CALC XLS SCAT IP, IMBD FOSS FRAGS SCAT THRU, SLI TR SFT WHT CHLK IP, DLL YEL FLO IN 5%, NO VIS POR, NO VIS CUT, NO VIS SHOW

LS- LT GRY CRM OFF WHT LT TN, HD DNS TO BRITT, FN TO MD XLN, REXLN MTRX SCAT THRU, IMBD CALC XLS IP, IMBD FOSS FRAGS IP, FRM TO SFT WHT CHLK SCAT THRU, DLL YEL FLO SCAT THRU, TR PR INTR-XLN POR, NO VIS CUT, NO VIS SHOW





SH- SOFT BLACK CARB SHALE

SH- GRAY TO DK GRAY, FINE, SMTH BLKY, SLI LIMY SLI CALC

**LeCOMPTON 3061' - 1107'**

LS- CRM OFF WHT LT TN, HD DNS TO BRITT, FN XLN, REXLN MTRX, IMBD CALC XLS SCAT IP, TR IMBD FOSS FRAGS SCAT IP, TR IMBD DISS PYR IN 10%, DLL YEL FLO SCAT THRU, NO VIS POR, NO VIS CUT, NO VIS SHOW

SH- GRAY TO DK GRAY, FINE, SMTH BLKY, SLI TR DISS PYR

SH- SOFT BLACK CARB SHALE

LS- CRM OFF WHT LT TN, HD DNS TO BRITT, FN XLN, REXLN MTRX, IMBD CALC XLS SCAT IP, TR IMBD FOSS FRAGS SCAT IP, TR SFT WHT CHLK SCAT IP, DLL YEL FLO SCAT THRU, NO VIS POR, NO VIS CUT, NO VIS SHOW

SH- GRAY TO DK GRAY, FINE TO TR SFT, SMTH BLKY SLI LIMY

LS- CRM OFF WHT LT TN TO TN, HD DNS TO BRITT, FN XLN REXLN MTRX THRU, IMBD CALC XLS IP, TR IMBD FOSS FRAGS IP, TR FRM WHT CHLK SCAT IP, DLL YEL FLO SCAT THRU, PR INTR-XLN POR, NO VIS CUT NO VIS SHOW

LS- CRM LT TN TO TN, HD DNS TO BRITT, FN XLN REXLN MTRX THRU, IMBD CALC XLS IP, SLI TR IMBD FOSS FRAGS IP, TR IMBD DISS PYR IN 5%, DLL YEL FLO TO TR BRIT YEL IN 10%, TR PR INTR-XLN POR, NO VIS CUT NO VIS SHOW

**HEEBNER 3181' - 1227'**

SH- SOFT BLACK CARB SHALE

LS- CRM LT TN TO TN, HD DNS TO BRITT, FN TO MD XLN, REXLN MTRX THRU, IMBD CALC XLS IP, SLI TR IMBD FOSS FRAGS IP, TR IMBD DISS PYR IN 5%, DLL YEL FLO TO TR BRIT YEL IN 10%, TR PR INTR-XLN POR, NO VIS CUT NO VIS SHOW

LS- CRM LT TN OFF WHT, HD DNS TO BRITT, FN XLN REXLN MTRX, IMBD CALC XLS SCAT IP, TR FRM WHT CHLK SCAT IP, DLL YEL FLO IP, NO VIS POR, NO VIS CUT, NO VIS SHOW

**DOUGLAS 3214' - 1260'**

SH- GRAY TO DK GRAY, FINE TO TR SFT,

**LANSING 3227' - 1273'**

LS- CRM LT TN TO TN, STAIN IN 20%, HD DNS TO BRITT, FN XLN TO REXLN MTRX THRU, IMBD CALC XLS SCAT THRU, IMBD FOSS FRAGS IP, BRIT YEL FLO IN 35%, PR TO TR FR INTR-XLN POR TO FR MICRO PP POR, GD FLUSH CUT THRU TO GD STRONG MLKY BLUE STREAM CUT IN 40%, FR OIL ODOR, LT TN STAIN ON DISH

LS- CRM LT TN TO TN OFF WHT, STAIN IN 30%, HD DNS TO BRITT, FN TO MD XLN REXLN MTRX THRU, IMBD ABDT FOSS FRAGS THRU, IMBD CALC XLS SCAT IP, SLI TR IMBD DISS PYR IP, FRM TO SFT WHT CHLK SCAT THRU, DLL YEL FLO THRU TO BRIT YEL IN 25%, FR TO TR GD INTR-XLN POR TO TR GD FOSSIC POR, FR FLUSH CUT IP TO FR MLKY BLUE STREAM CUT IN 15%, FR TO TR GD ODOR, NO STAIN

LS- CRM LT TN TO TN OFF WHT, HD DNS TO BRITT, FN XLN REXLN MTRX SCAT THRU, IMBD CALC XLS SCAT IP, IMBD FOSS FRAGS IP, DLL YEL FLO SCAT THRU, TR PR INTR-XLN POR, NO VIS CUT, NO VIS SHOW

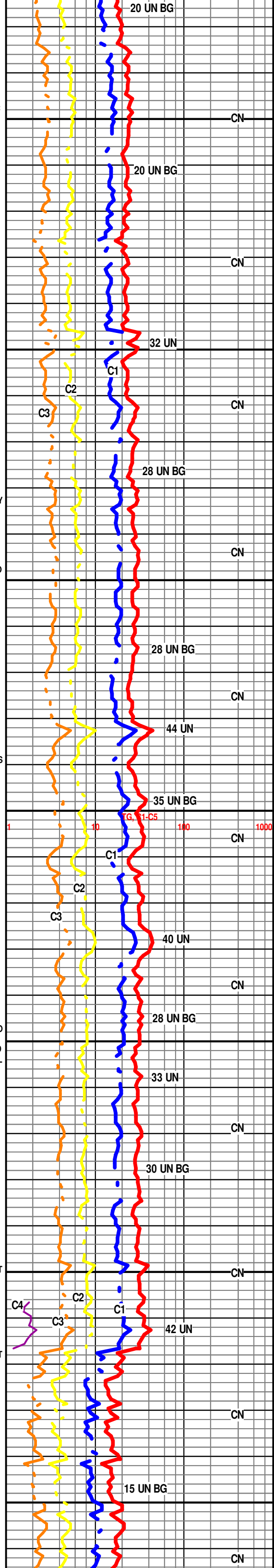
LS- CRM LT TN TO TN, STAIN IN 35%, HD DNS TO BRITT, FN TO MD XLN, REXLN MTRX THRU, IMBD CALC XLS SCAT IP, IMBD FOSS FRAGS IP, V/SLI TR IMBD OOL IP, DLL YEL FLO THRU TO BRIT YEL FLO IN 40%, FR TO TR GD INTR-XLN POR, TR FR VUG POR, SLI TR PR OOLCST POR, GD FLUSH CUT TO GD STRONG MLKY BLUE STREAM CUT IN 20%, FR OIL ODOR

LS- CRM LT TN TO TN, STAIN IN 60%, HD DNS TO BRITT, FN XLN, REXLN MTRX THRU, IMBD CALC XLS IP, TR IMBD FOSS FRAGS IP, SLI TR IMBD WHT CHLK, BRIT YEL FLO SCAT THRU, GD INTR-XLN TO TR GD VUG POR, GD INST FLUSH CUT THRU, GD STRONG MLKY BLUE STREAM CUT THRU, GD ODOR, TN STAIN ON DISH

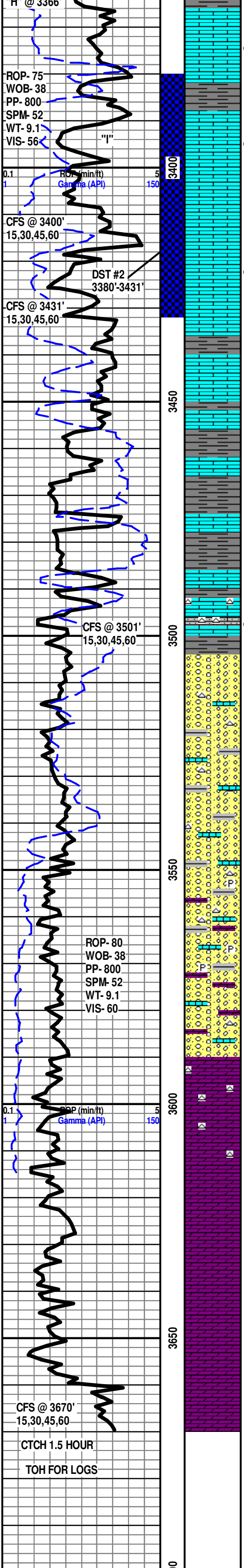
LS- CRM OFF WHT LT TN, HD DNS TO BRITT, FN XLN REXLN MTRX SCAT THRU, IMBD CALC XLS SCAT IP, IMBD FOSS FRAGS IP, TR IMBD OOL IP, DLL YEL FLO THRU TR BRIT YEL FLO IN 10%, FR INTR-XLN POR TO FR OOLCST POR, PR FLUSH CUT, NO STREAM CUT, NO ODOR

LS- CRM OFF WHT LT TN, HD DNS TO BRITT, FN XLN REXLN MTRX, IMBD CALC XLS SCAT IP, IMBD OOL SCAT THRU, FRM TO SFT WHT CHLK SCAT THRU, DLL YEL FLO THRU, PR INTR-XLN TO FR OOLCST POR, NO VIS CUT, NO VIS SHOW, NO ODOR

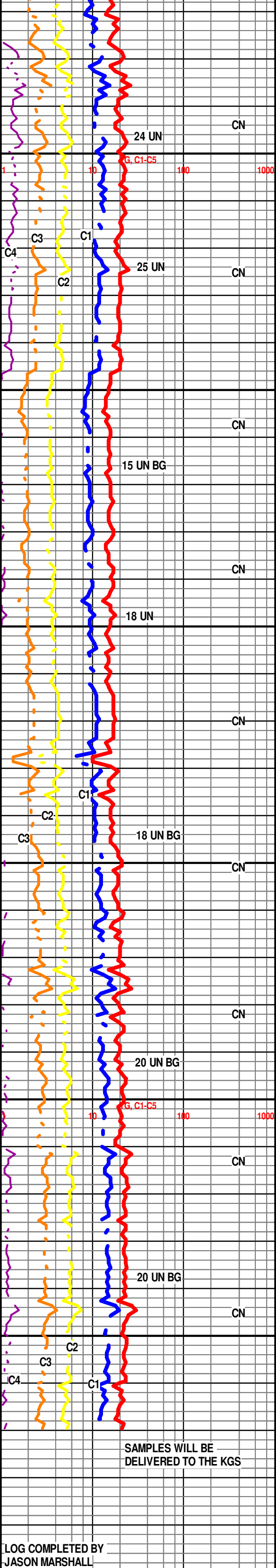
SH- GRAY TO DK GRAY, FINE, SMTH BLKY, SLI LIMY, TR DISS PYR IP







LS- CRM OFF WHT LT TN, HD DNS TO BRITT, FN TO MD XLN REXLN MTRX, IMBD CALC XLS, TR IMBD FOSS FRAGS IP, FRM CHLK SCAT IP, DLL YEL FLO THRU, TR FR INTR-XLN POR, PR FUSH CUT TO NO STREAM CUT  
 SH- GRY TO DK GRY, FRM, SMTH BLKY, SLI LIMY TO CALC  
 3390'-3410' LS- CRM LT TN TO TN OFF WTH, STAIN IN 35%, HD DNS TO BRITT, FN XLN REXLN MTRX THRU, IMBD CALC XLS SCAT IP, FRM TO SFT WHT CHLK SCAT THRU, DLL YEL FLO THRU TO BRIT YEL IN 10%, FR TO GD INTR-XLN POR TO FR VUG POR, GD FLUSH CUT THRU TO GD STRONG MLKY BLUE STREAM CUT IN 40%, FR TO TR GD OIL ODOR, LT TN STAIN ON DISH  
 LS- CRM LT TN OFF WHT, STAIN IN 20%, HD DNS TO BRITT, FN TO MD XLN, REXLN MTRX THRU, IMBD CALC XLS SCAT IP, IMBD FOSS FRAGS IP, SLI TR IMBD OOL IP, DLL YEL FLO THRU, BRIT YEL FLO IN 5%, FR TO TR GD INTR-XLN POR, TR FR OOLCST TO FR VUG POR, FR FLUSH CUT TO FR WEAK MLKY BLUE CUT IN 20%, PR OIL ODOR  
 LS- CRM OFF WHT LT TN, HD DNS TO BRITT, FN XLN REXLN MTRX SCAT THRU, IMBD CALC XLS SCAT IP, IMBD FOSS FRAGS SCAT THRU, DLL YEL FLO THRU, PR INTR-XLN POR, NO VIS CUT, NO VIS SHOW  
 SH- GRY TO DK GRY, FRM TO SFT, BLKY, SLI LIMY  
**BKC 3465' -1511'**  
 SH- DK GRY TO RDISH BRN, FRM TO TR GUMMY, BLKY  
 SH- GRY TO DK GRY RDISH BRN, GUMMY, BLKY, YELISH WHT CHRT SCAT THRU, PYR SCAT IP  
 LS- CRM LT TN TO TN, HD TT TO BRITT, V/FN TO FN SURCO MTRX, ABDT IMBD V/FN FRSTY CLR TN SM S/RND TO RND QURTZ GRNS, IMBD WHT CHLK SCAT IP, YELISH WHT PINKISH CHRT SCAT THRU, SLI TR DISS PYR IN 5%, DLL GLD YEL FLO SCAT IP, FR INTR-XLN POR TO TR FR VUG POR, GD FLUSH CUT TO GD STRONG MLKY BLUE STREAM CUT IN 40%, NO TO V/PR ODOR, LT STAIN ON DISH  
 SH- GRY TO RDISH BRN, GUMMY, BLKY, YELISH WHT PINK CHRT SCAT THRU  
 SH- GRY TO DK GRY RDISH BRN, FRM TO GUMMY, YELISH CHRT SCAT THRU, CHLK THRU  
 LS- CRM OFF WHT LT TN, HD DNS TO BRITT, FN TO MD XLN, REXLN MTRX THRU, IMBD CALC XLS SCAT THRU, FOSS FRAGS SCAT IP, RDISH BRN SHALE SCAT THRU, YELISH WHT PINK CHRT SCAT THRU, DLL YEL FLO THRU, FR TO TR GD INTR-XLN POR, NO VIS CUT, NO VIS SHOW, NO ODOR  
 SH- DK GRY RDISH BRN, FRM TO GUMMY, BLKY, SLI LIMY, CHRT SCAT THRU, PYR SCAT THRU  
 LS- CRM OFF WHT LT TN, HD DNS TO BRITT, FN TO MD XLN, REXLN MTRX THRU, IMBD CALC XLS SCAT THRU, DOL XLS SCAT THRU, FOSS FRAGS SCAT IP, RDISH BRN SHALE SCAT THRU, YELISH WHT PINK CHRT SCAT THRU, SLI TR PYR, DLL YEL FLO THRU, FR INTR-XLN POR, NO VIS CUT, NO VIS SHOW, NO ODOR  
**ARBUCLE 3590' -1636'**  
 DOL- CRM OFF WHT WHT, HD DNS TO BRITT. FN TO MD XLN TO SUCRO MTRX THRU, IMBD ABDT SM TO MD ANG TO S/RND DOL GRNS. TR FRM WHT CHLK SCAT IP, WHT CHRT SCAT THRU, DLL YEL FLO THRU, FR INTR-XLN POR, NO VIS CUT, NO VIS SHOW, NO ODOR  
 DOL- CRM OFF WHT WHT LT TN, HD DNS TO BRITT. FN TO MD XLN TO SUCRO MTRX THRU, IMBD ABDT SM TO MD ANG TO S/RND DOL GRNS, FRM TO SFT WHT CHLK SCAT THRU, WHT CHRT SCAT THRU, DLL YEL FLO THRU, FR INTR-XLN POR, NO VIS CUT, NO VIS SHOW, NO ODOR  
 DOL- CRM OFF WHT LT TN, HD TT TO BRITT. FN TO MD XLN TO SUCRO MTRX THRU, IMBD ABDT SM TO MD ANG TO S/ANG DOL GRNS, WHT CHLK SCAT IP, DLL YEL FLO THRU, FR INTR-XLN POR TO TR FR VUG POR, NO VIS CUT, NO VIS SHOW, NO ODOR  
 DOL- CRM OFF WHT LT TN, HD TT TO BRITT. FN TO MD XLN TO SUCRO MTRX THRU, IMBD ABDT SM TO MD ANG TO S/ANG DOL GRNS, SFT WHT CHLK SCAT IP, DLL YEL FLO THRU, FR INTR-XLN POR, NO VIS CUT, NO VIS SHOW, NO ODOR  
**RTD 3670' @ 6:00 PM 10/17/2011**  
**LOGS BY WEATHERFORD**  
**LIBERAL, KANSAS**  
 THANK YOU FOR CHOOSING EARTHTECH



SAMPLES WILL BE DELIVERED TO THE KGS  
 LOG COMPLETED BY JASON MARSHALL