



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1103803  
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: \_\_\_\_\_



1103803

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](mailto: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> _____ <i>(Submit ACO-4)</i>	<b>PRODUCTION INTERVAL:</b> _____ _____
--	---	---

Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	ROMAN CATHOLIC DIOCESE 1-34
Doc ID	1103803

All Electric Logs Run

DEN-NEUT
INDUCTION
MICRO
SONIC
SPECTRAL GR

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

December 05, 2012

CHRISTOPHER MITCHELL  
Samuel Gary Jr. & Associates, Inc.  
1515 WYNKOOP, STE 700  
DENVER, CO 80202

Re: ACO1  
API 15-167-23817-00-00  
ROMAN CATHOLIC DIOCESE 1-34  
NW/4 Sec.34-14S-15W  
Russell 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,  
CHRISTOPHER MITCHELL



**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: 8/20/2012  
 Invoice # 720  
 P.O.#:  
 Due Date: 9/19/2012  
 Division: Russell

# Invoice

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

**RECEIVED**

SEP 07 2012

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

**Reference:**  
 RHOMAN CATHOLIC DIOCESE 1-34

**Description of Work:**  
 LONG SURFACE JOB

DRLG    COMP    W/O    LOB    GG

Account	8200.138
Well/Prospect	
Deck	
AFE	
Approval	LB
Description	

**Services / Items Included:**

	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 963.85	No	Bulk Truck Mileage-Job to Nearest Bulk Plant	13	\$80.14	No
Common-Class A	325	\$ 4,185.28	Yes				
Bulk Truck Matl-Material Service Charge	343	\$ 724.11	No				
8 5/8" Basket	2	\$ 667.11	Yes				
Calcium Chloride	12	\$ 603.69	Yes				
Flo Seal	80	\$ 168.89	Yes				
8 5/8" Centralizer	2	\$ 135.11	Yes				
Pump Truck Mileage-Job to Nearest Camp	13	\$ 136.95	No				
8 5/8" Top Rubber Plug	1	\$ 111.89	Yes				
Premium Gel (Bentonite)	6	\$ 103.11	Yes				
Baffle Plate Aluminum, 8 5/8"	1	\$ 95.00	Yes				

**Invoice Terms:**

Net 30

SubTotal: \$ 7,975.12  
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (1,196.27)

SubTotal for Taxable Items: \$ 5,159.57

SubTotal for Non-Taxable Items: \$ 1,619.29

Total: \$ 6,778.85

Tax: \$ 428.24

8.30% Russell County Sales Tax

**Amount Due: \$ 7,207.10**

**Applied Payments:**

**Balance Due: \$ 7,207.10**

**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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# 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. 720

Date	8-16-12	Sec.	34	Twp.	14	Range	15	County	Russell	State	KS	On Location		Finish	9:15 AM	
Lease	Well No. 1-34			Location <del>Field 20-4-15</del>												
Contractor	Vel RFS. 6							Owner								
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.	736			Charge To Sam Gaby Jr & Assoc.								
Csg.	8306			Depth	736			Street								
Tbg. Size				Depth				City								
Tool				Depth				State								
Cement Left in Csg.	42			Shoe Joint	42, 33			The above was done to satisfaction and supervision of owner agent or contractor.								
Meas Line				Displace	44.25			Cement Amount Ordered 325 #6 C #6 Gell								
<b>EQUIPMENT</b>																
Pumptrk #5	No.	Cementer	Brett													
Bulktrk #4	No.	Helper	Brett													
Bulktrk	No.	Driver	Dave													
<b>JOB SERVICES &amp; REMARKS</b>																
Remarks:								Vel Flow								
Rat Hole								Common 325								
Mouse Hole								Poz. Mix								
Centralizers	1, 14							Gel. 6								
Baskets	2, 15							Calcium 12								
D/V or Port Collar								Hulls								
								Salt								
								Flowseal 80 #								
								Kol-Seal								
								Mud CLR 48								
								CFL-117 or CD110 CAF 38								
								Sand								
								Handling 343								
								Lease ROMAN								
								CATHOLIC								
								DIOCESE								
								Cement did Crustate								
								<b>FLOAT EQUIPMENT</b>								
								Guide Shoe								
								Centralizer 8, 8 1/2, 2								
								Baskets 4, 8 1/2, 2								
								AFU Inserts								
								Float Shoe								
								Latch Down								
								Rubber Plug								
								Baffle plate								
								Pumptrk Charge Long Surface								
								Mileage 3								
								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: 8/25/2012  
 Invoice # 30

P.O.#:  
 Due Date: 9/24/2012  
 Division: Russell

# Invoice

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

**RECEIVED**

SEP 07 2012

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

<input checked="" type="checkbox"/> DRLG <input type="checkbox"/> COMP <input type="checkbox"/> W/O <input type="checkbox"/> LOE <input type="checkbox"/> GG	
Account	8200.145
Well/Prospect	
Deck	
AFE	
Approval	LB
Description	

**Reference:**  
 ROMAN CATHOLIC DIOCESE 1-34

**Description of Work:**  
 PLUG JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 991.39	Yes				
Common-Class A	135	\$ 1,788.17	Yes				
Bulk Truck Matl-Material Service Charge	233	\$ 505.94	Yes				
POZ Mix-Standard	90	\$ 449.49	Yes				
Premium Gel (Bentonite)	8	\$ 141.40	Yes				
Pump Truck Mileage-Job to Nearest Camp	13	\$ 140.86	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	13	\$ 82.43	Yes				
Dry Hole Plug	1	\$ 60.80	Yes				

**Invoice Terms:**

Net 30

SubTotal: \$ 4,160.48  
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (624.07)

SubTotal for Taxable Items: \$ 3,536.41  
 SubTotal for Non-Taxable Items: \$ -

8.30% Russell County Sales Tax

Total: \$ 3,536.41  
 Tax: \$ 293.52

**Thank You For Your Business!**

**Amount Due: \$ 3,829.93**

**Applied Payments:**

**Balance Due: \$ 3,829.93**

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. 030

Date	8-22-12	Sec.	34	Twp.	14	Range	13	County	KS	State	KS	On Location		Finish	6:30 pm
Lease	500 Below			Well No.	1-34			Location	Balta Rd Old 46 75 3W 3/4 N 1/4 E						
Contractor	Val Doly Ry 6							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.						
Type Job	plug							Charge To	Sam Bavy Jr & Associates						
Hole Size	7 7/8		T.D.	3480			Depth								
Csg.								Depth							
Tbg. Size								Depth							
Tool								Depth							
Cement Left in Csg.								Shoe Joint	The above was done to satisfaction and supervision of owner agent or contractor.						
Meas Line								Displace	Cement Amount Ordered 225 @ 49% gel						
<b>EQUIPMENT</b>															
Pumptrk	5	No.	Cementer		Brett			Common	135						
			Helper												
Bulktrk	10	No.	Driver		Doug			Poz. Mix	90						
			Driver												
Bulktrk	pu	No.	Driver		Dave			Gel.	8						
			Driver												
<b>JOB SERVICES &amp; REMARKS</b>															
Remarks:								Calcium							
Rat Hole	30 sk							Hulls							
Mouse Hole	15 sk							Salt							
Centralizers								Flowseal	50#						
Baskets								Koi-Seal							
D/V or Port Collar								Mud CLR 48							
	25 sk @ 3355'							CFL-117 or CD110 CAF 38							
	45 sk @ 960'							Sand							
	100 sk @ 400'							Handling	233						
	10 sk @ 40' w/c plug							Mileage							
<b>FLOAT EQUIPMENT</b>															
	Roman Catholic Diocese							Guide Shoe							
	1-34							Centralizer							
	thanks							Baskets							
								AFU Inserts							
								Float Shoe							
								Latch Down							
								Pumptrk Charge	plug						
								Mileage	13						
Tax															
Discount															
Total Charge															
X Signature	Rachy [Signature]														





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Samuel Gary Jr & Assoc Inc

**34 14s 15w Russell**

1515 Wynkoop Ste 700  
Denver CO 80202

**Roman Catholic D1-34**

ATTN: Clayton Camozzi

Job Ticket: 47643

**DST#: 1**

Test Start: 2012.08.19 @ 23:45:00

## GENERAL INFORMATION:

Formation: **LKC " G "**

Deviated: No Whipstock: 1886.00 ft (KB)

Time Tool Opened: 02:41:30

Time Test Ended: 07:15:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jim Svaty

Unit No: 58

**Interval: 3184.00 ft (KB) To 3194.00 ft (KB) (TVD)**

Reference Elevations: 1886.00 ft (KB)

Total Depth: 3194.00 ft (KB) (TVD)

1876.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

**Serial #: 8672 Outside**

Press @ Run Depth: 18.65 psig @ 3185.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.19

End Date:

2012.08.20

Last Calib.: 2012.08.20

Start Time: 23:45:05

End Time:

07:14:29

Time On Btm: 2012.08.20 @ 02:41:15

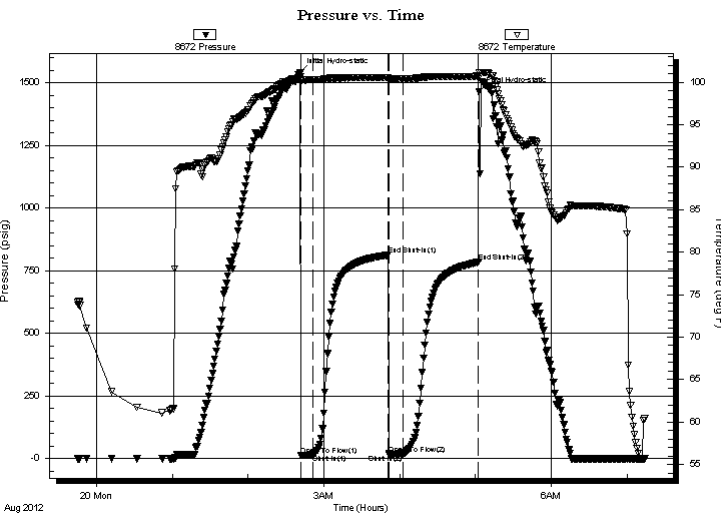
Time Off Btm: 2012.08.20 @ 05:02:45

**TEST COMMENT:** 10-IFP- Weak Surface Blow

60-ISIP- No Blow

10-FFP- No Blow

60-FSIP- No Blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1542.78	100.65	Initial Hydro-static
1	13.69	99.94	Open To Flow (1)
10	16.48	100.28	Shut-In(1)
70	813.17	100.58	End Shut-In(1)
70	19.09	100.21	Open To Flow (2)
81	18.65	100.41	Shut-In(2)
141	785.06	100.71	End Shut-In(2)
142	1466.38	101.16	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud 100%	0.03

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Samuel Gary Jr & Assoc Inc

**34 14s 15w Russell**

1515 Wynkoop Ste 700  
Denver CO 80202

**Roman Catholic D1-34**

Job Ticket: 47643

**DST#: 1**

ATTN: Clayton Camozzi

Test Start: 2012.08.19 @ 23:45:00

## 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: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	Mud 100%	0.028

Total Length: 2.00 ft      Total Volume: 0.028 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

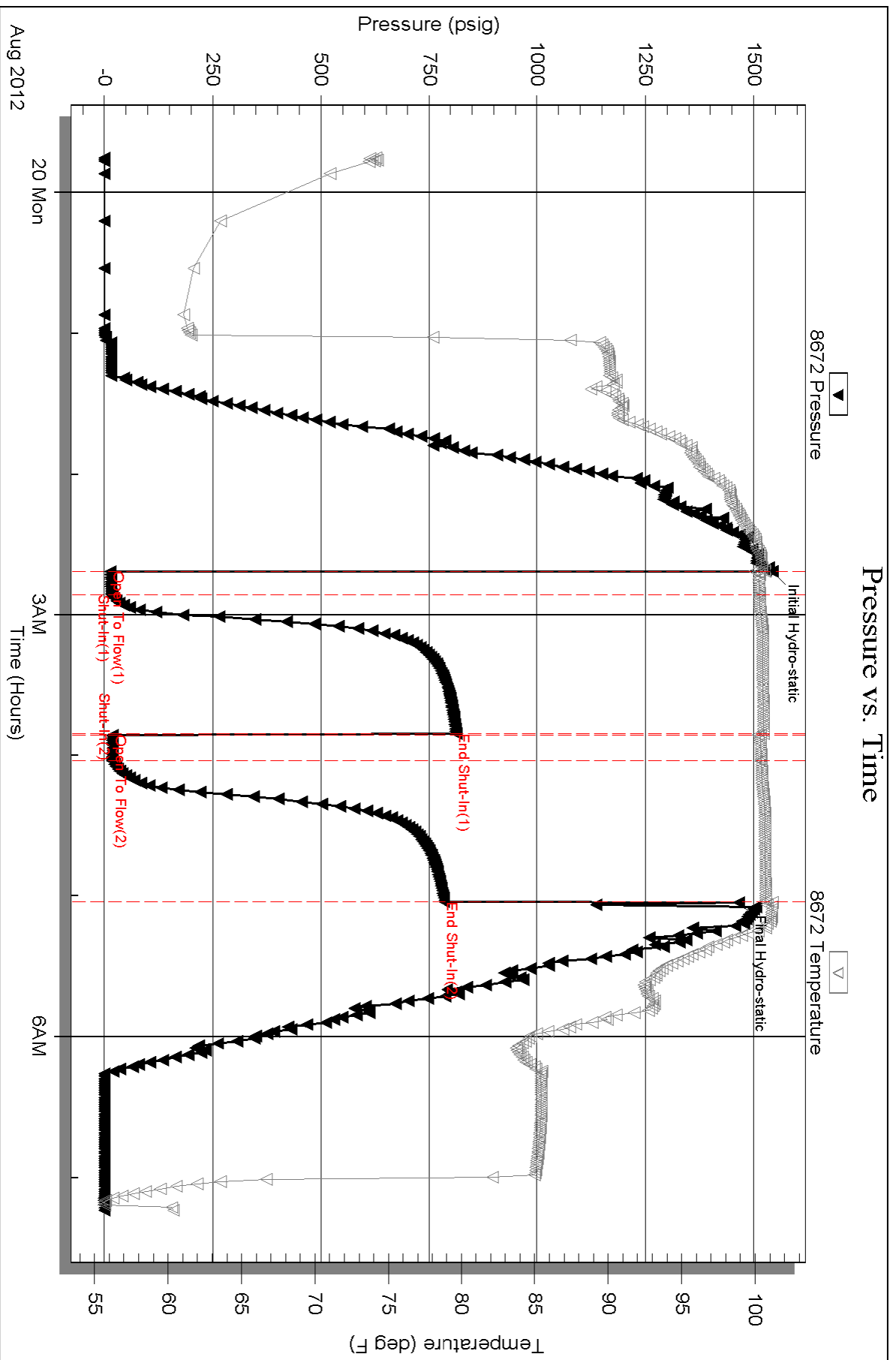
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time



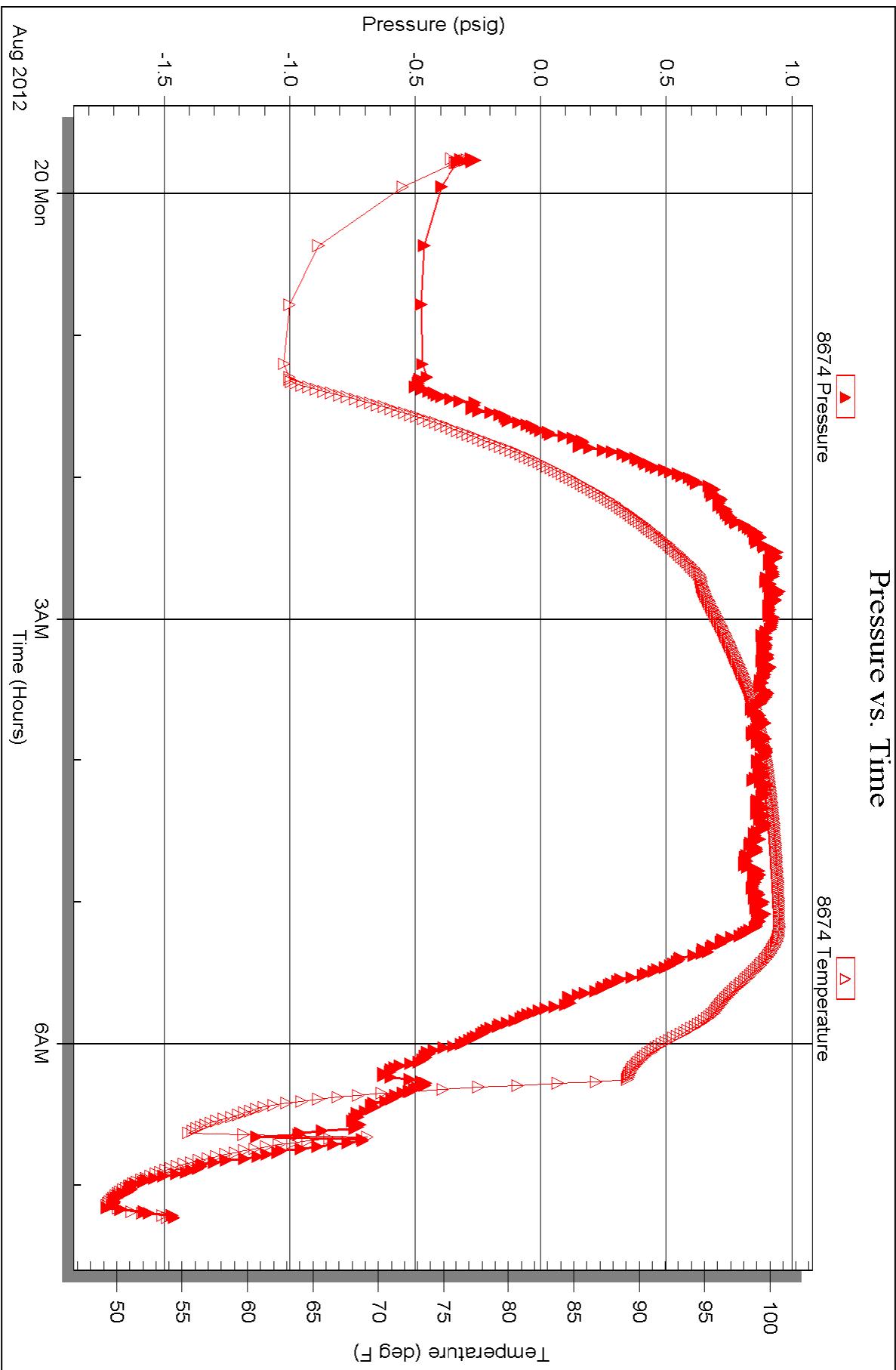
Serial #: 8674

Fluid

Samuel Gary Jr & Assoc Inc

Roman Catholic D1-34

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 47643

Printed: 2012.08.20 @ 07:59:57



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Samuel Gary Jr & Assoc Inc

**34 14s 15w Russell**

1515 Wynkoop Ste 700  
Denver CO 80202

**Roman Catholic D1-34**

ATTN: Clayton Camozzi

Job Ticket: 47644

**DST#: 2**

Test Start: 2012.08.20 @ 21:40:00

## GENERAL INFORMATION:

Formation: **LKC " I & J "**

Deviated: No Whipstock: 1886.00 ft (KB)

Time Tool Opened: 23:31:45

Time Test Ended: 04:08:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 58

**Interval: 3270.00 ft (KB) To 3314.00 ft (KB) (TVD)**

Reference Elevations: 1886.00 ft (KB)

Total Depth: 3314.00 ft (KB) (TVD)

1876.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

**Serial #: 8672 Outside**

Press @ RunDepth: 22.04 psig @ 3271.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.20

End Date:

2012.08.21

Last Calib.:

2012.08.21

Start Time: 21:40:05

End Time:

04:07:29

Time On Btm:

2012.08.20 @ 23:31:30

Time Off Btm:

2012.08.21 @ 01:52:00

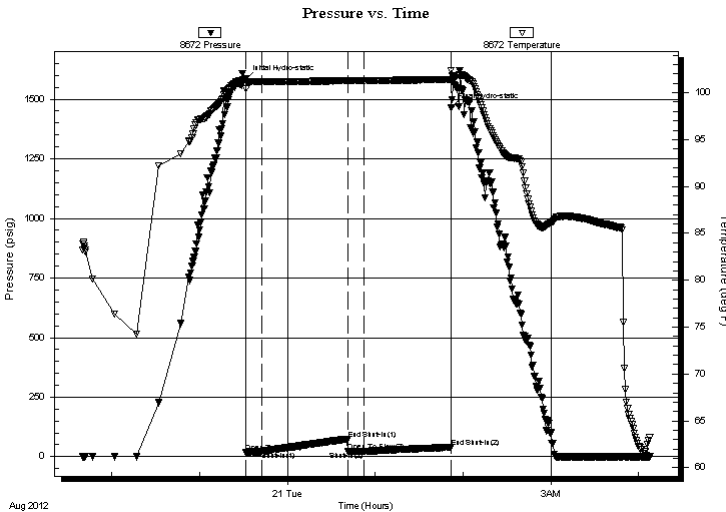
**TEST COMMENT:** 10-IFP- Weak Surface Blow Died in 6min.

60-ISIP- No Blow

10-FFP- No Blow

60-FSIP- No Blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1583.21	101.49	Initial Hydro-static
1	18.28	100.44	Open To Flow (1)
11	21.23	101.16	Shut-In(1)
70	74.38	101.29	End Shut-In(1)
70	23.53	101.27	Open To Flow (2)
81	22.04	101.30	Shut-In(2)
141	39.65	101.41	End Shut-In(2)
141	1466.08	102.39	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud 100%	0.03

\* 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 & Assoc Inc

**34 14s 15w Russell**

1515 Wynkoop Ste 700  
Denver CO 80202

**Roman Catholic D1-34**

Job Ticket: 47644

**DST#: 2**

ATTN: Clayton Camozzi

Test Start: 2012.08.20 @ 21:40:00

## 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: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.36 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5500.00 ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	Mud 100%	0.028

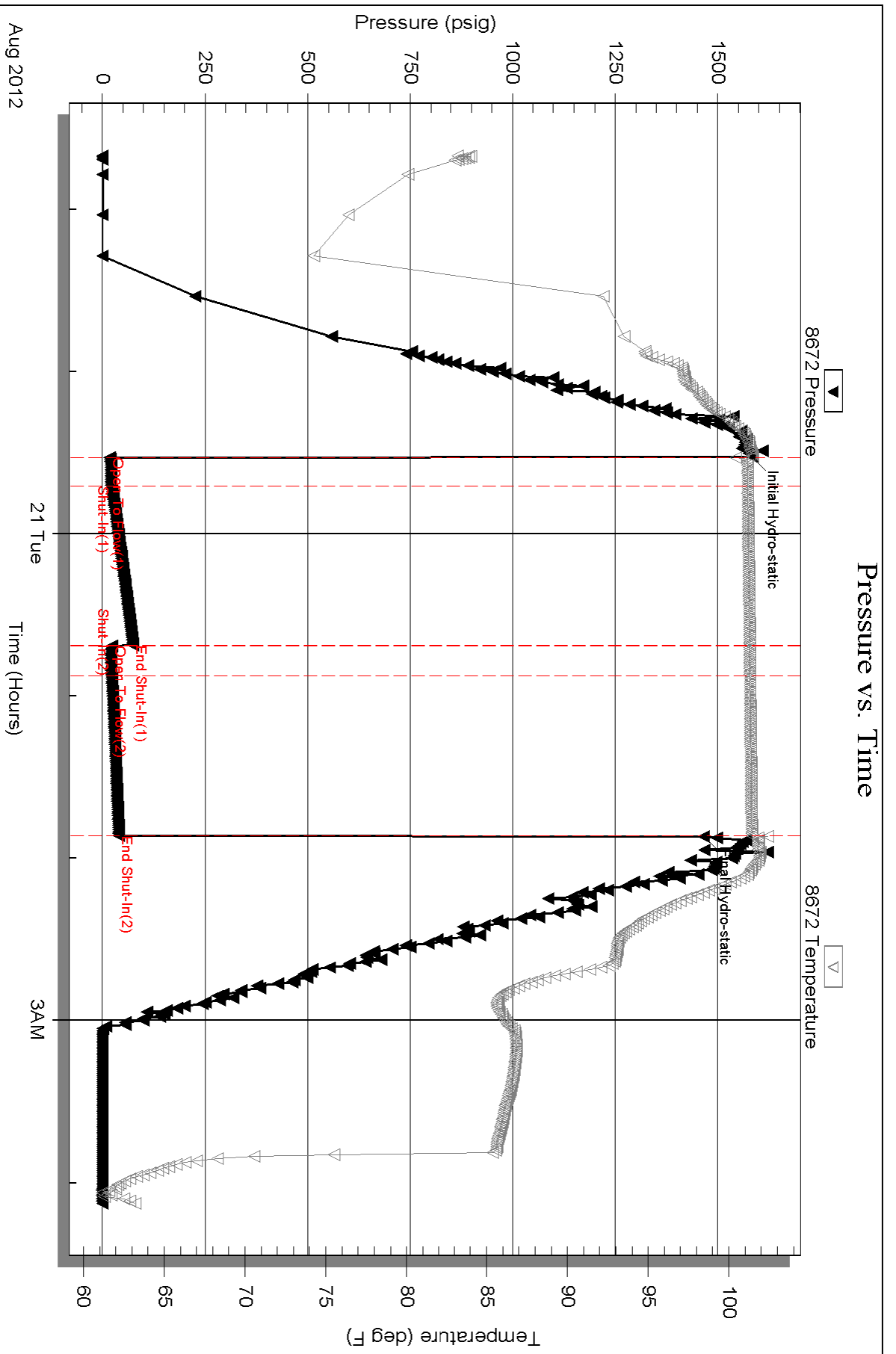
Total Length: 2.00 ft      Total Volume: 0.028 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments: Sampler 2000ml Mud 100%







**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Samuel Gary Jr & Assoc Inc

**34 14s 15w Russell**

1515 Wynkoop Ste 700  
Denver CO 80202

**Roman Catholic D1-34**

ATTN: Chris Mitchell

Job Ticket: 47645

**DST#: 3**

Test Start: 2012.08.21 @ 15:00:00

## GENERAL INFORMATION:

Formation: **Penn Sand**

Deviated: No Whipstock: 1886.00 ft (KB)

Time Tool Opened: 16:39:15

Time Test Ended: 22:22:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 58

**Interval: 3355.00 ft (KB) To 3375.00 ft (KB) (TVD)**

Reference Elevations: 1886.00 ft (KB)

Total Depth: 3375.00 ft (KB) (TVD)

1876.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

**Serial #: 8672 Outside**

Press @ Run Depth: 873.99 psig @ 3356.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.21

End Date:

2012.08.21

Last Calib.:

2012.08.21

Start Time: 15:00:05

End Time:

22:21:44

Time On Btm:

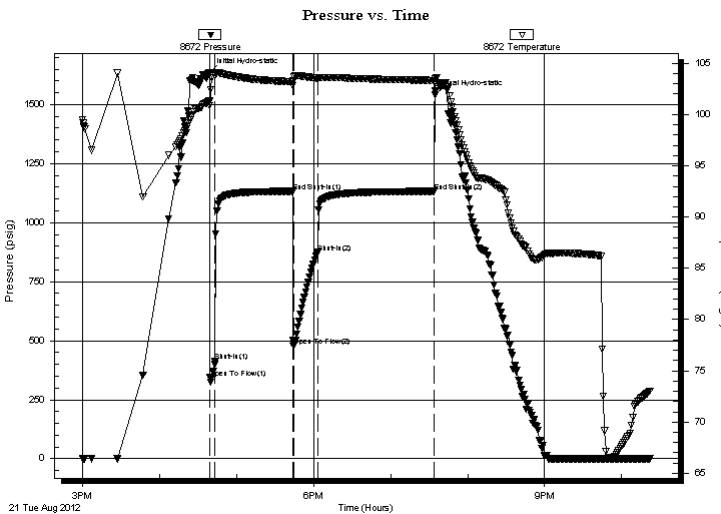
2012.08.21 @ 16:38:45

Time Off Btm:

2012.08.21 @ 19:34:30

**TEST COMMENT:** 5-IFP- BOB in 1min  
60-ISIP- Weak Surface Blow in 1min Died in 10min  
20-FFP- BOB in 30sec  
90-FSIP- No Blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1636.10	101.31	Initial Hydro-static
1	343.22	100.88	Open To Flow (1)
5	414.52	103.86	Shut-In(1)
65	1132.77	103.22	End Shut-In(1)
66	476.74	103.33	Open To Flow (2)
85	873.99	103.55	Shut-In(2)
176	1131.61	103.33	End Shut-In(2)
176	1540.65	103.55	Final Hydro-static

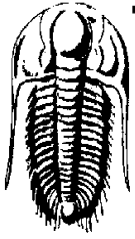
## Recovery

Length (ft)	Description	Volume (bbl)
202.00	MCW 20% m 80% w	2.83
248.00	MCW 10% m 90% w	3.48
1370.00	MCW 1% m 99% w	19.22

## Gas Rates

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

\* Recovery from multiple tests



# TRILOBITE TESTING, INC.

## DRILL STEM TEST REPORT

Samuel Gary Jr & Assoc Inc

1515 Wynkoop Ste 700  
Denver CO 80202

ATTN: Chris Mitchell

**34 14s 15w Russell**

**Roman Catholic D1-34**

Job Ticket: 47645

**DST#: 3**

Test Start: 2012.08.21 @ 15:00:00

### GENERAL INFORMATION:

Formation: **Penn Sand**

Deviated: No Whipstock: 1886.00 ft (KB)

Time Tool Opened: 16:39:15

Time Test Ended: 22:22:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 58

Interval: **3355.00 ft (KB) To 3375.00 ft (KB) (TVD)**

Reference Elevations: 1886.00 ft (KB)

Total Depth: 3375.00 ft (KB) (TVD)

1876.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

### Serial #: 8674

### Fluid

Press @ Run Depth:                      psig @      3325.00 ft (KB)

Capacity:    8000.00 psig

Start Date:                                      2012.08.21

End Date:    2012.08.21

Last Calib.:    2012.08.21

Start Time:                                      15:00:05

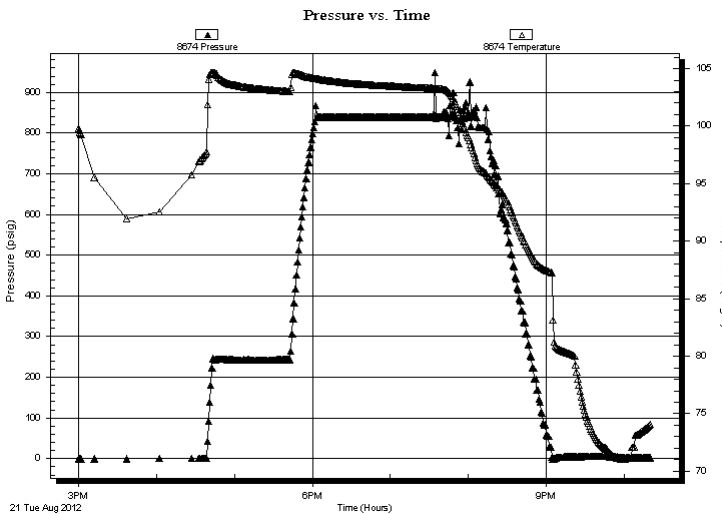
End Time:    22:20:20

Time On Btm:

Time Off Btm:

TEST COMMENT: 5-IFP- BOB in 1min  
60-ISIP- Weak Surface Blow in 1min Died in 10min  
20-FFP- BOB in 30sec  
90-FSIP- No Blow

### PRESSURE SUMMARY



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

### Recovery

Length (ft)	Description	Volume (bbl)
202.00	MCW 20% m 80% w	2.83
248.00	MCW 10% m 90% w	3.48
1370.00	MCW 1% m 99% w	19.22

### 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 & Assoc Inc

**34 14s 15w Russell**

1515 Wynkoop Ste 700  
Denver CO 80202

**Roman Catholic D1-34**

Job Ticket: 47645

**DST#: 3**

ATTN: Chris Mitchell

Test Start: 2012.08.21 @ 15:00:00

## 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:

9000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.60 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5300.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
202.00	MCW 20%m 80%w	2.834
248.00	MCW 10%m 90%w	3.479
1370.00	MCW 1%m 99%w	19.217

Total Length: 1820.00 ft      Total Volume: 25.530 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

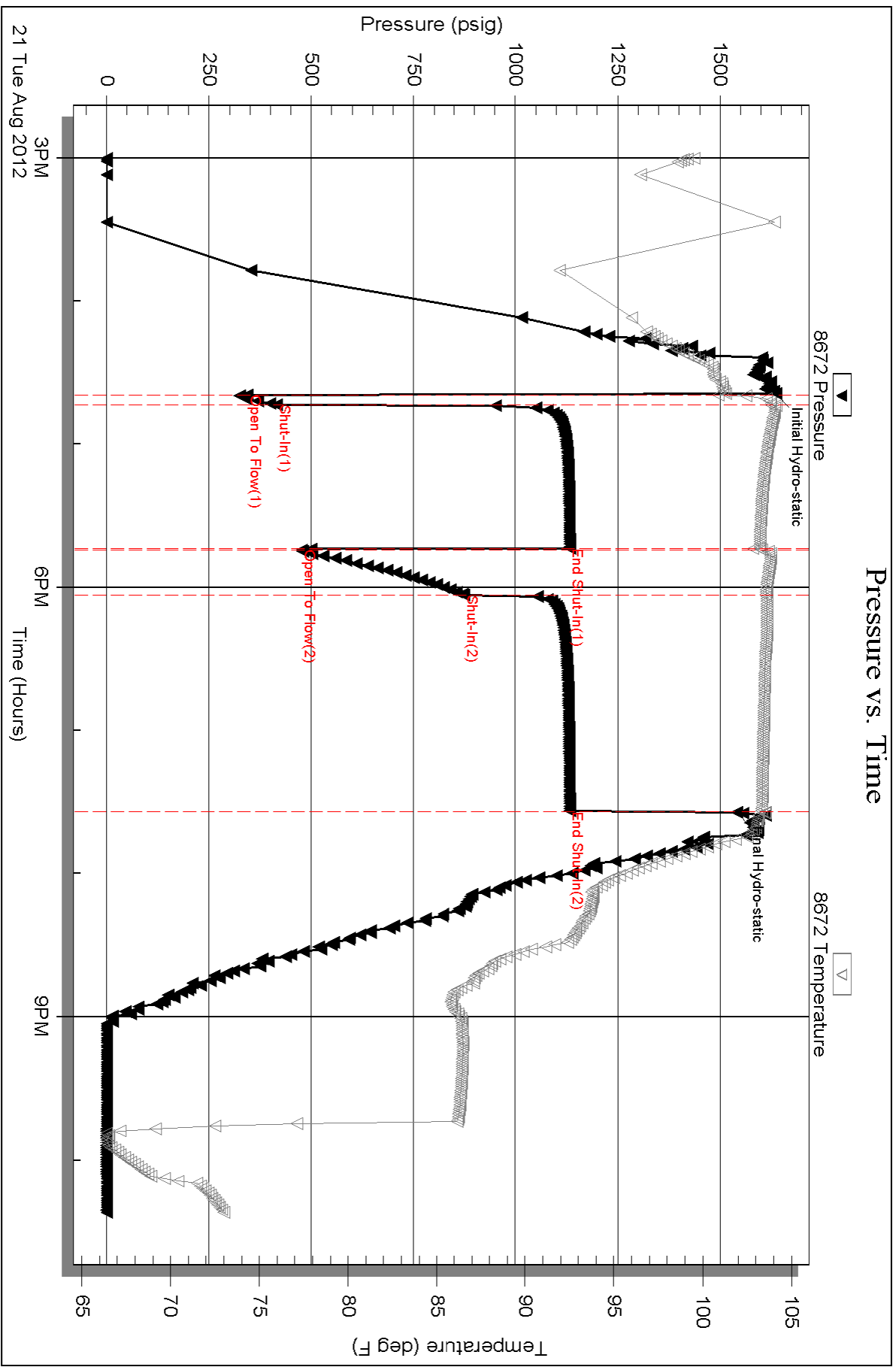
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .60@80

Sampler Chlorides .55@78 - 10000ppm



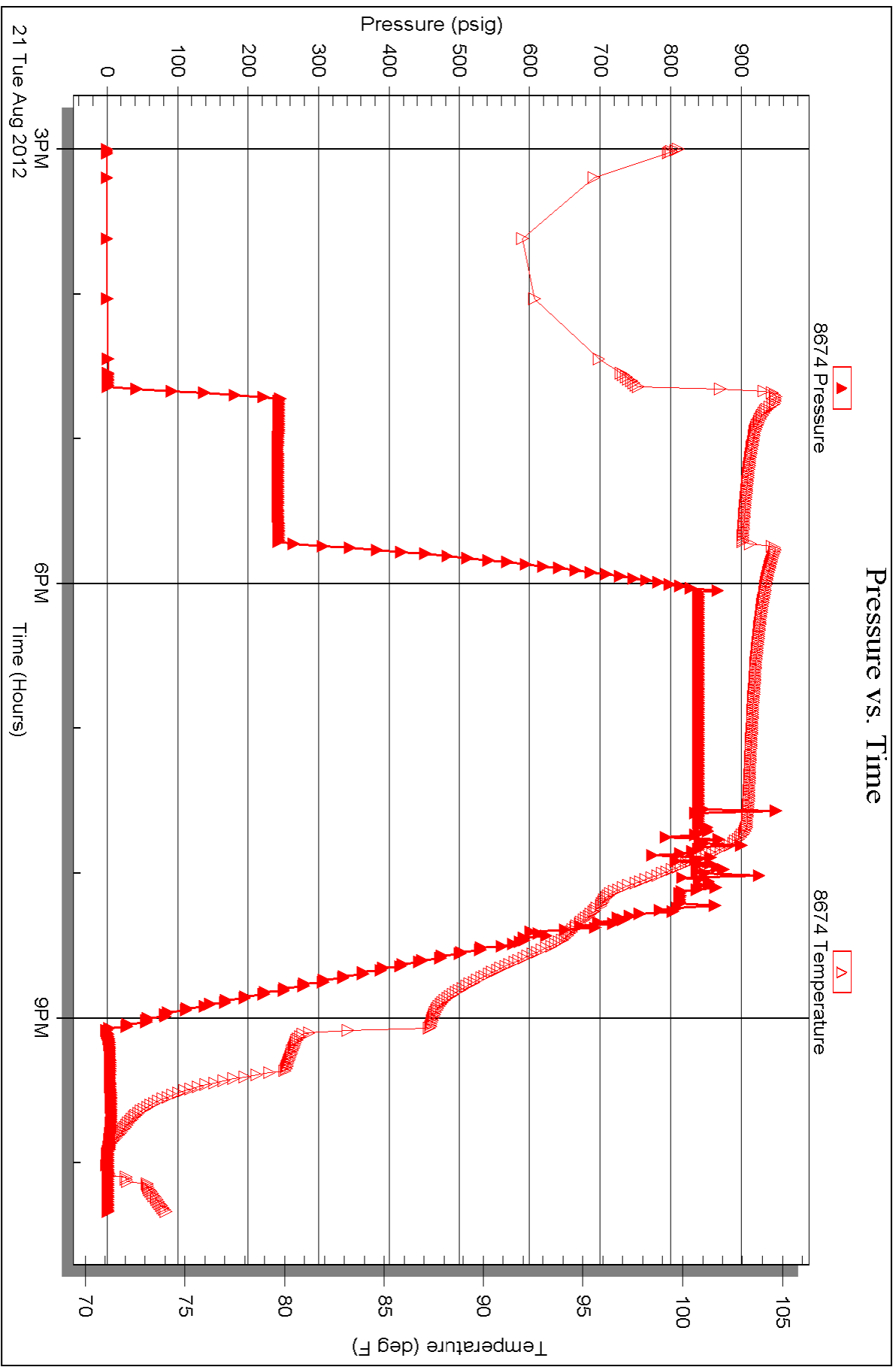
Serial #: 8674

Fluid

Samuel Gary Jr & Assoc Inc

Roman Catholic D1-34

DST Test Number: 3





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

Well Name: SGA ROMAN CATHOLIC DIOCESE 1-34  
 Location: SEC. 34-14S-15W RUSSELL CO., KANSAS  
 License Number: 15-167-23817-0000 Region: Wildcat  
 Spud Date: 8/15/12 Drilling Completed: 8/22/12  
 Surface Coordinates: 2000 FNL/ 2000 FWL

Bottom Hole Coordinates:  
 Ground Elevation (ft): 1876' K.B. Elevation (ft): 1886'  
 Logged Interval (ft): 2800' To: 3480' Total Depth (ft): 3480'  
 Formation: Lansing, Arbuckle  
 Type of Drilling Fluid: Natural Chemical

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: Schuyler Hedrick  
 Company: Earth Tech OGL, Inc.  
 Address: PO Box 683  
 Hooker, Okla . 73945  
 Off. 888-543-8378 Cell- 580-754-0062

**DST's Report**

DST# 1 3179'-3184' 10-60-10-60  
 IF- WK SURF. BLW, ISI- NO BLW, FF- NO BLW, FSI- NO BLW  
 IH- 1542, FH- 1466/ IF- 13 TO 16, FF- 19 TO 18/ ISI- 813, FSI- 785  
 REC. 2' OF TF/ 2' OF MUD 100% MUD/ BHT- 100 DEG., CHLOR.- 3500

**DST's Report**

DST# 2 3270-3314 10-60-10-60  
 IF- WK SURF. BLW DIED IN 6 MIN, ISI- NO BLW, FF- NO BLW, FSI- NO BLW  
 REC. 2' OF TF/ 2' OF MUD 100% MUD/ BHT- 101 DEG., CHLOR.- 5500

**DST's Report**

DST# 3 3355'-3375' 5-60-20-90  
 IF- B.O.B. 1 MIN, ISI- WK SURF BLW IN 1 MIN, DIED IN 10 MIN, FF- B.O.B. 30 SEC., FSI- NO BLW  
 IH- 1636, FH- 1540/ IF- 343-414, FF- 476 TO 873/ ISI- 1132, FSI- 1131  
 REC. 1,820' OF TF/ 202' OF MCW 80% WATER, 20% MUD/ 248' OF MCW 90% WATER, 10% MUD/ 1370' OF  
 MCW 99% WATER, 1%MUD/ BHT- 103 DEG./ API RW- .60 @ 80 DEG., CHLOR.- 9,000 PPM

**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  
 Sitysh  
 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
- Sandylms
- 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

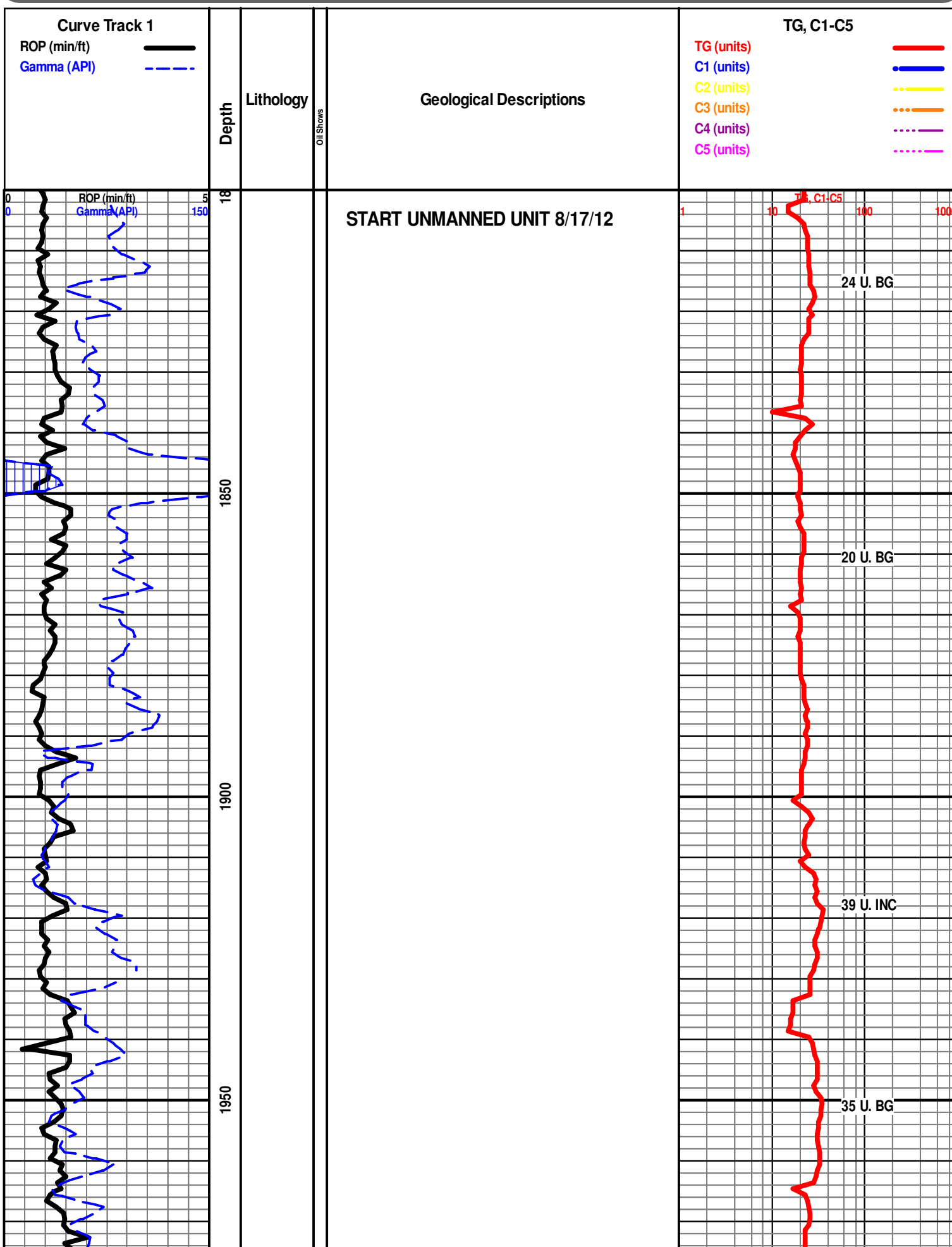
- Even
- Spotted
- Ques
- Dead
- Gas show

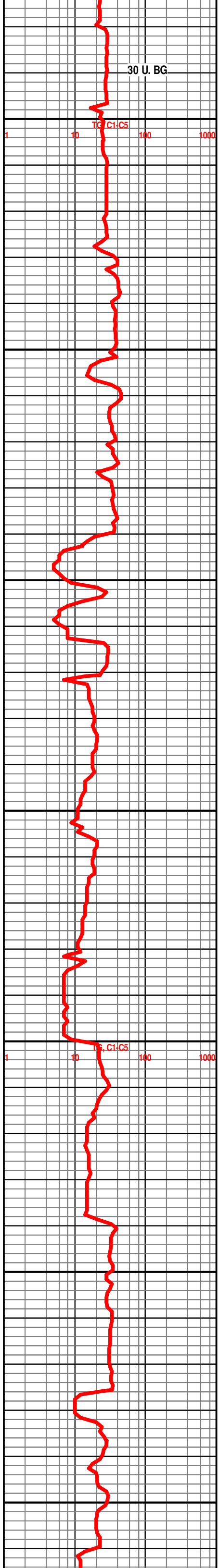
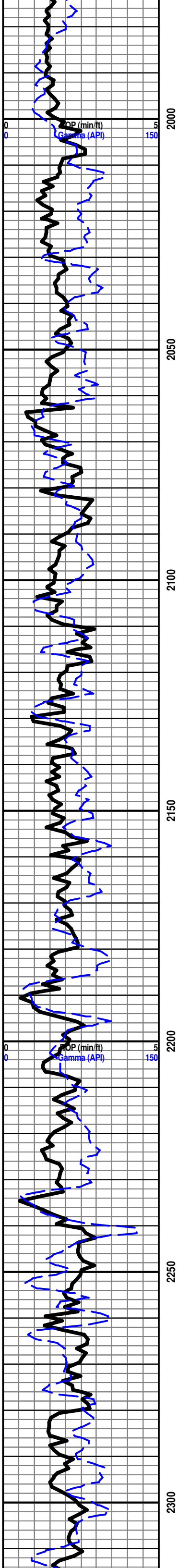
#### INTERVALS

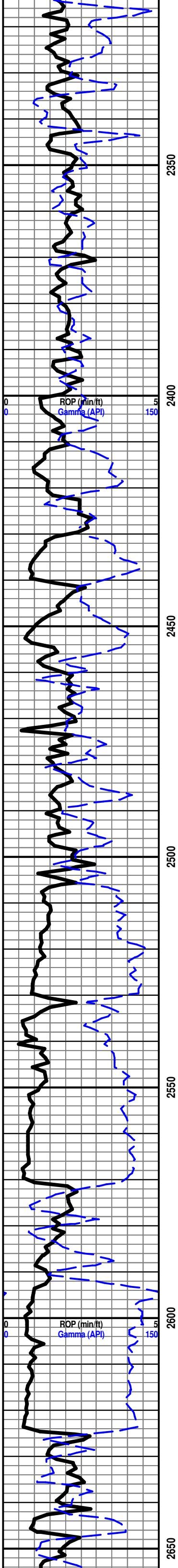
- Core
- Dst
- Dst

#### EVENTS

- Rft
- Sidewall







2350

2400

2450

2500

2550

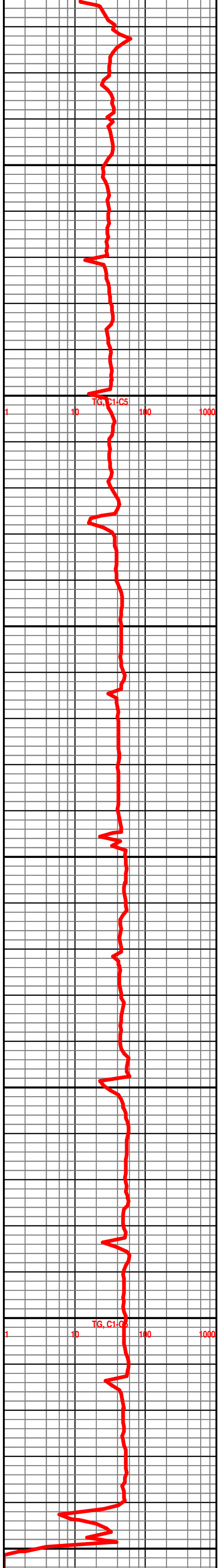
2600

2650

ROP (min/ft)  
Gamma (API)

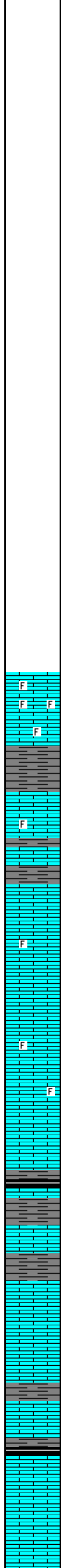
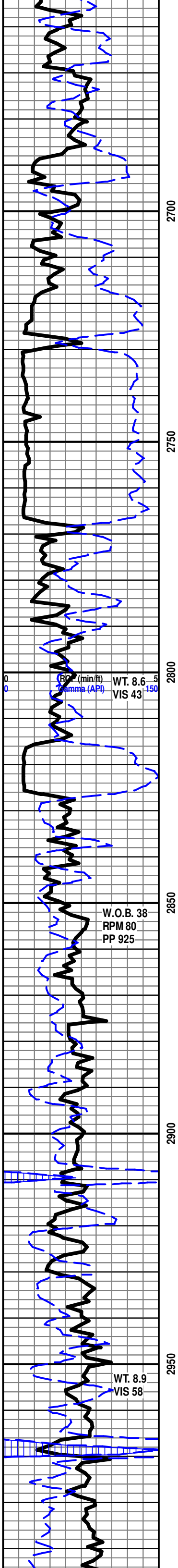
ROP (min/ft)  
Gamma (API)

BRS 2570'-684'



TG, C1-C5

TG, C1-C5



**HOWARD 2767'-881'**

**START 24 HR. MANNED UNIT 8/18/12**

LS- CRM BFF TO LT GY IP, HD DNS TO BRIT, MD/F-XLN MTRX, S-CHLY IP, SCAT IMB FOSS FRAGS, SLI TR FREE FOSSIL, V DUL YEL FLO IN 20%, NO VIS POR, NO VIS CUT OR SHOW

**TOPEKA 2827'-941'**

LS- CRM TO LT TN, HD DNS TO BRIT IP, MD/F-XLN MTRX, SCAT IMB CALC-XLS, TR SCAT SFT WHT CHLK IP, SLI TR IMB FOSS FRAGS IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

W.O.B. 38  
RPM 80  
PP 925

LS- CRM TO LT GY, HD DNS TO BRIT IP, F-XLN MTRX, TR RE-XLN IP, SLI TR S-CHLY, SCAT FREE CALC-XLS, SLI TR IMB FOSS FRAGS IP, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

LS- CRM TO LT TN, HD DNS TO BRIT IP, MD/F-XLN MTRX, S-SUCRO IP, SCAT IMB CALC-XLS, TR IMB FOSS FRAGS IP, DUL YEL FLO IN 30%, NO VIS POR, NO VIS CUT OR SHOW

SH- BLCK SFT CARB

**LE COMPTON 2926'-1040'**

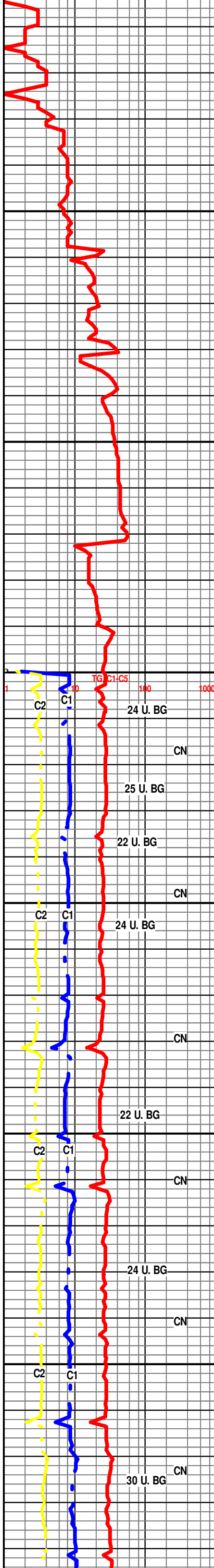
SH- LT GY TO GY, FRM TO SFT, SPLNTY SMTH TXT

LS- CRM BFF TO LT TN, V HD DNS TO TR BRIT IP, F/VF-XLN MTRX, RE-XLN IP, IMB CALC-XLS IP, SCAT FREE CALC-XLS IP, DUL YEL FLO IN 40%, NO VIS POR, NO VIS CUT OR SHOW

WT. 8.9  
VIS 58

SH- BLCK SFT CARB

LS- LT TN TO TN, V HD DNS TO BRIT IP, F/VF-XLN MTRX, S-CHLY IP, SCAT IMB CALC-XLS IP, TR SFT WHT CHLK IN TRAY, V DUL YEL FLO IN 20%, NO VIS POR, NO VIS CUT OR SHOW



24 U. BG

CN

25 U. BG

22 U. BG

CN

24 U. BG

CN

22 U. BG

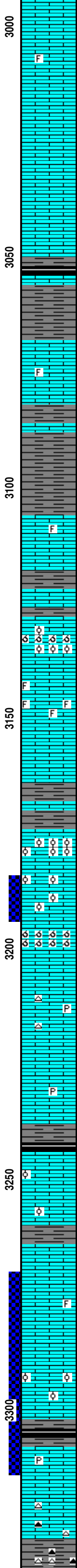
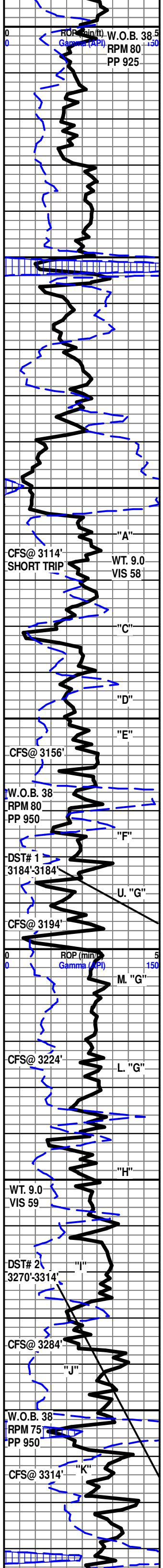
CN

24 U. BG

CN

30 U. BG

CN



3005'-3008' LS- OFF WHT TO CRM (W/ TN TO DK TN OIL STN SCAT IN 20%), HD DNS TO BRIT, MD-XLN MTRX, S-CHLKY, IMB SFT WHT CHLK THRU, SCAT IMB FOSS FRAGS IP, TR SCAT SFT WHT CHLK IN TRAY, DUL YEL GLD FLO IN 40%, NO FLO IN 60%, TR V PR MICRO VUG POR IP, SLI TR V PR INTER-XLN POR IP, PR WK FLSH CUT IN 30%, FR TO TR GD SLW STRM CUT IN 50%, LT TN LCH ON DSH, LT OIL ODOR

**HEEBNER 3050'-1164'**

SH- BLCK SFT CARB

SH- LT GY TO GY, FRM TO V SFT, BLCKY SLTY TXT

LS- OFF WHT TO CRM, V HD DNS TO TR BRIT IP, F/VF-XLN MTRX, S-CHLKY IP, SCAT IMB CALC-XLS IP, TR FREE FOSSIL, SLI TR PYR, DUL YEL FLO IN 20%, NO VIS POR, NO VIS CUT OR SHOW

**DOUGLAS 3089'-1203'**

SH- LT GRN TO LT GY, SFT TO V GMMY, BLKY SMTH TXT

**LANSING 3106'-1220'**

3106'-3109' LS- CRM TO LT TN (W/ TN OIL STN IN 35%), V HD DNS TO TR BRIT IP, MD/F-XLN, S-CHLKY, SCAT IMB CALC-XLS IP, TR FREE FOSSIL, DUL YEL GLD FLO IN 50%, TR BRT YEL GLD FLO IP, V PR TO PR MICRO-VUG POR IN 3%, TR V PR VUG POR IP, FR FLSH CUT IN 40%, FR TO GD SLW STRM CUT IN 60%, TN LCH ON DSH, GD OIL ODOR, W/ SLI SULPHUR ODOR

**LANSING "C" 3127'-1241'**

3131'-3134' LS- CRM TO LT TN (W/ LT TN OIL STN SCAT IN 20%), HD DNS TO V BRIT, MD-XLN, RE-XLN, S-CHLKY IP, SCAT IMB SM OOLITES THRU, V-OOLITIC, OOLMOLDIC THRU, SCAT SFT WHT CHLK IN TRAY, TR V DUL YEL GLD FLO IN 10%, PR TO TR FR OOLMOLDIC POR IN 10%, SLI TR OOLITIC POR IP, PR WK FLSH CUT IN 20%, PR TO TR FR SLW STRM CUT IN 30%, TR V LT TN LCH ON DSH, SLI OIL ODOR

3149'-3152' LS- LT TN TO TN (W/ DK TN OIL STN IN 25%), V HD DNS TO TR BRIT IP, F/VF-XLN MTRX, S-SUCRO, TR S-CHLKY IP, SCAT IMB FOSS FRAGS THRU, DUL YEL GLD FLO IN 50%, BRT YEL GLD FLO IN 10%, PR TO TR FR VUG POR IN 2%, TR GD FOSS POR IP, POSS FRACT POR, PR WK FLSH CUT IN 40%, FR TO TR GD SLW STRM CUT IN 60%, TN LCH ON DSH, GD STRNG OIL ODOR

**LANSING "F" 3175'-1289'**

3176'-3179' LS- LT TN TO TN ( DUE TO OIL STN IN 30%), HD DNS TO BRIT IP, V RE-XLN MTRX, S-SURCO, ABDT IMB SM OOLITES THRU, V-OOLITIC, DUL YEL GLD FLO IN 60%, SCAT BRT YEL GLD FLO IN 20%, TR V PR INTER-OOLITIC POR IN 2%, FR FLSH CUT IN 50%, GD SLW STRM CUT IN 50%, TN LCH ON DSH, GD OIL ODOR

3188'-3191' LS- CRM TO LT TN ( W/ TN TO DK TN OIL STN IN 30%), HD DNS TO BRIT, MD-XLN, RE-XLN IP, S-SUCRO THRU, SCAT IMB SM OOLITES, IMB CALC-XLS, SCAT FREE CALC-XLS, BRT YEL GLD FLO IN 40%, DUL YEL GLD FLO IN 70%, FR TO TR GD INTER-XLN POR IN 3%, SCAT PR TO TR FR MICRO-VUG POR IN 2%, POSS FRACT POR, FR TO TR GD FLSH CUT IN 60%, GD SLW STRM CUT IN 50%, TN LCH ON DSH, V STRNG OIL ODOR

3195'-3199' LS- CRM TO LT TN, HD DNS TO V-BRIT, MD-XLN MTRX, S-SUCRO IP, V-OOLMOLDIC, TR SCAT SFT WHT CHLK IN TRAY, SCAT DUL YEL FLO IN 20%, PR TO TR FR OOLMOLDIC POR IN 15%, NO VIS CUT OR SHOW

LS- OFF WHT TO CRM, V HD DNS, VF/CRYPTO-XLN MTRX, TR RE-XLN IP, IMB SM CALC-XLS IP, TR WHT CHRT, SLI TR PYR, VIS FLO, NO VIS POR, NO VIS SHOW

**LANSING "H" 3246'-1360'**

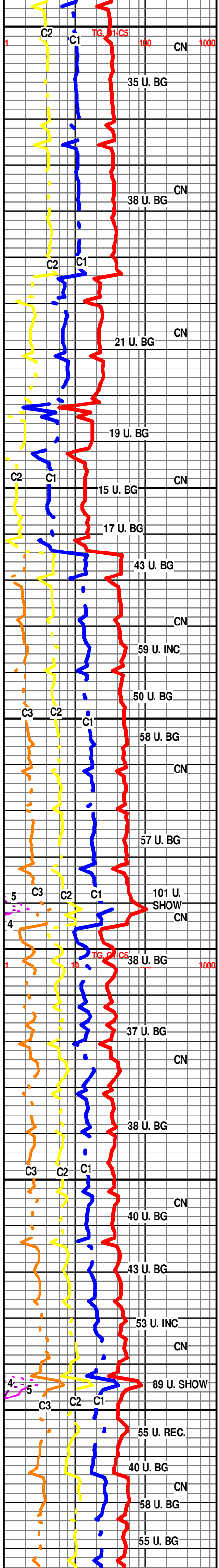
3247'-3250' LS- TN TO DK TN (V DK TN OIL STN IN 45%), HD DNS TO BRIT IP, MD/F-XLN, S-SUCRO THRU, S-CHLKY IP, TR SCAT IMB SM OOLITES IP, TR SFT WHT CHLK IN TRAY, DUL YEL GLD FLO IN 50%, SLI TR BRT YEL GLD FLO IP, PR TO TR FR MICRO-VUG POR IN 2-3%, V PR INTER-XLN POR IP, GD FLSH CUT IN 60%, GD SLW STRM CUT IN 70%, DK TN LCH ON DSH, V GD STRNG OIL ODOR

3277'-3280' LS- CRM TO LT TN (W/ TN OIL STAIN IN 20% & LIVE OIL STAIN SCAT IN 5%), HD DNS TO BRIT IP, MD/F-XLN MTRX, RE-XLN IP, SLI TR S-CHLKY IP, IMB SM CALC-XLS IP, TR IMB FOSS FRAGS IP, DUL YEL GLD FLO 80%, BRT YEL GLD FLO IN 10%, PR TO FR INTER-XLN POR IN 2%, TR PR MICRO-VUG POR IP, POSS FRACT POR, FR TO GD FLSH CUT 40%, EXCEL SLW STRM CUT IN 60%, DK TN LCH ON DSH, FREE FLOATING OIL IN TRAY, GD OIL ODOR

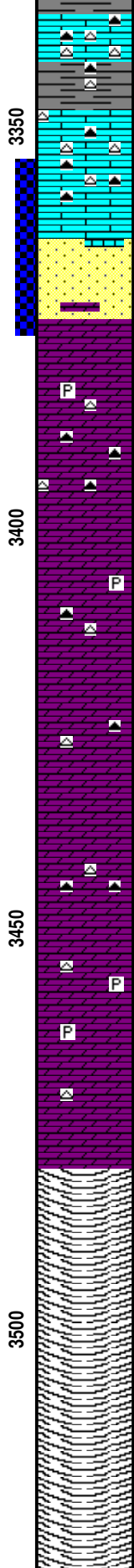
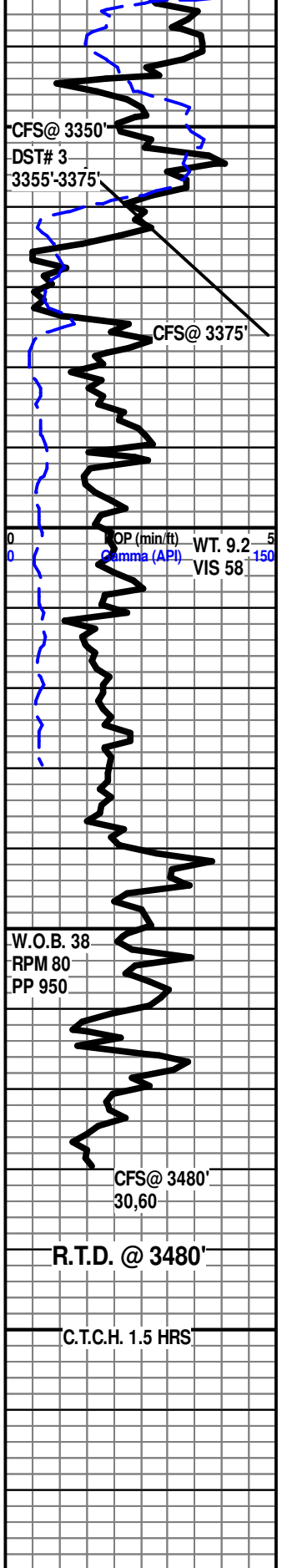
3292'-3294' LS- LT TN TO TN (W/ TN OIL STN SCAT IN 50%), V HD DNS TO SLI TR BRIT IP, MD/F-XLN, RE-XLN IP, SUCRO THRU, SCAT TR IMB SM OOLITES IP, YEL GLD FLO IN 80%, BRT YEL GLD FLO IN 10%, FR TO GD MICRO VUG POR SCAT IN 3%, FR VUG POR IN 2%, PR TO TR FR WK FLSH CUT IN 40%, FR SLW STRM CUT IN 40%, LT TN LCH ON DSH, FR TO GD OIL ODOR

LS- CRM BFF TO LT TN, V HD DNS TO TR BRIT IP, MD/F-XLN MTRX, RE-XLN IP, IMB CALC-XLS SCAT THRU, TR MOTT CHRT IN TRAY, DUL YEL FLO IN 20%, NO VIS POR, NO VIS CUT OR SHOW

SH- LT GY TO LT GRN, V FRM TO SFT IP, BLCKY SMTH TXT







**BKC 3342'-1456'**  
 SH- RD TO DK RD, FRM TO V SFT, ABDT MOTT CHRT THRU

3364'-3374' SS- OFF WHT TO CRM (W/ TN OIL STN SCAT IN 10%), IMB S-ANG TO RND CLR QRTZ GRNS THUR W/ CALC CMNT, GRADING TO ABDT FREE RND TO S-RND CLR QRTZ GRNS THUR TRAY, W/ TR POSS IMB DOLO GRNS IP, FR TO GD SRT, TR BRT YEL GLD FLO IN 15%, FR TO GD TO V GD INTER-GRN POR IN 10-12%, EXCEL FLSH CUT THRU, EXCEL SLW STRM CUT THRU, DK TN LCH ON DSH, ABDT FREE FLOATING OIL THRU TRAY, V GD STRNG OIL ODOR

**ARBUCKLE 3375'-1489'**

DOLO- WHT TO OFF WHT, HD DNS TO BRTT IP, V RE-XLN MTRX, ABDT IMB SM TO MD S-ANG DOLO GRNS THRU, SCAT IMB RND TO S-RND CLR QRTZ GRNS, TR IMB PYR IP, TR MOTT CHRT YEL MIN FLO SCAT IN 20%, NO VIS POR, NO VIS CUT OR SHOW

DOLO- WHT TO OFF WHT, V HD DNS, F/VF-XLN MTRX, RE-XLN, IMB V SM S-ANG TO RND DOLO GRNS THRU, SCAT IMB V SM RND CLR QRTZ GRNS, SCAT MOTT CHRT IP, DUL YEL MIN FLO IN 20%, NO VIS POR, NO VIS CUR TO SHOW

DOLO- WHT TO OFF WHT, V HD DNS, F/VF-XLN MTRX, RE-XLN, ABDT IMB SM TO MD S-ANG DOLO GRNS THRU, IMB SM RND CLR QRTZ GRNS IP, MOTT CHRT THRU TRAY, NO VIS FLO, NO VIS SHOW

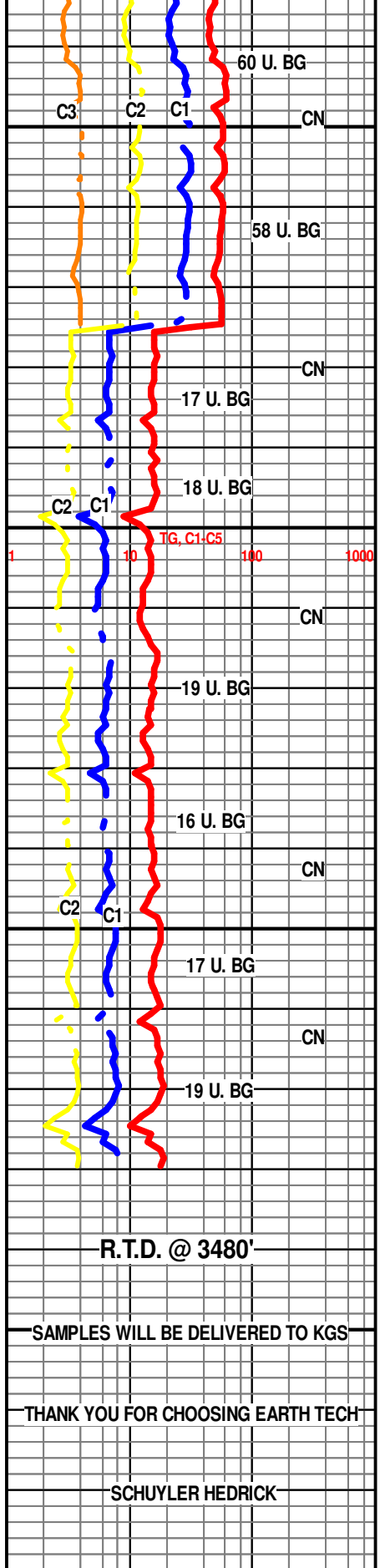
DOLO- WHT TO OFF WHT, HD DNS, MD-XLN, V RE-XLN MTRX, ABDT IMB SM TO MD S-ANG TO RND CLR QRTZ GRNS THRU, IMB SM S-ANG TO RND DOLO GRNS IP, TR IMB PYR IP, DUL YEL MIN FLO 30%, YEL MIN FLO IN 10%, NO VIS POR, NO VIS CUT OR SHOW

**R.T.D. @ 4:40 A.M. 8/22/12**

DROP SURVEY

T.O.F.L. @ 6:15 A.M.

WEATHORFORD/ LIBERAL, KANAS



**R.T.D. @ 3480'**

SAMPLES WILL BE DELIVERED TO KGS

THANK YOU FOR CHOOSING EARTH TECH

SCHUYLER HEDRICK