



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1090097  
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: \_\_\_\_\_

1090097

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
---	--

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	SANDRA 1-25
Doc ID	1090097

All Electric Logs Run

DIL
MICRO
POR
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

Sam Brownback, Governor

August 09, 2012

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

Re: ACO1  
API 15-051-26284-00-00  
SANDRA 1-25  
SE/4 Sec.25-15S-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 at 303-831-4673.

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: 4/22/2012  
 Invoice # 331

P.O.#:  
 Due Date: 5/22/2012  
 Division: Russell

# Invoice

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

**Reference:**  
 SANDRA 1-25

**Description of Work:**  
 LONG SURFACE JOB

**Services / Items Included:**

	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 1,005.76	No	Baffle Plate Aluminum, 8 5/8"	1	\$99.13	Yes
Common-Class A	325	\$ 4,367.25	Yes				
Bulk Truck Mat-Material Service Charge	344	\$ 757.80	No				
8 5/8" Basket	2	\$ 696.12	Yes				
Calcium Chloride	12	\$ 497.77	Yes				
Pump Truck Mileage-Job to Nearest Camp	22	\$ 241.83	No				
Flo Seal	81	\$ 178.43	Yes				
8 5/8" Centralizer	2	\$ 140.99	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	22	\$ 141.51	No				
Premium Gel (Bentonite)	7	\$ 125.52	Yes				
8 5/8" Top Rubber Plug	1	\$ 116.75	Yes				

**Invoice Terms:**

Net 30

SubTotal: \$ 8,368.86  
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (1,255.33)

SubTotal for Taxable Items:	\$ 5,288.66
SubTotal for Non-Taxable Items:	\$ 1,824.87
<b>Total:</b>	<b>\$ 7,113.53</b>
<b>Tax:</b>	<b>\$ 333.19</b>

6.30% Ellis County Sales Tax

**Thank You For Your Business!**

**Amount Due: \$ 7,446.71**  
**Applied Payments:**  
**Balance Due: \$ 7,446.71**

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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**RECEIVED**

**APR 27 2012**

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

Account	8200-138
Well/Prospect	
Deck	
AFE	
Approval	
Description	

# 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. **331**

Date	Sec.	Twp.	Range	County	State	On Location	Finish
4-20-12	25	15	16	Ellis	KS		9:00 a.m.

Lease	Well No.	Location
Sandra	1-25	Galatia 390 R N to Pump Station

Contractor	Owner
Discovery #2	N into

Type Job	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.		
Surface			

Hole Size	T.D.	Charge To
12 1/4	736	Sam Coakley Tr & Assoc

Csg.	Depth	Street
8 7/8	735	

Tbg. Size	Depth	City

Tool	Depth	State

Cement Left in Csg.	Shoe Joint	The above was done to satisfaction and supervision of owner agent or contractor.
42.92	42.92	

Meas Line	Displace	Cement Amount Ordered
	44.80	325 cum 3 1/2" 147.661

<b>EQUIPMENT</b>			
Pumptrk	No.	Cement Helper	Common
5		Fraig	325
Bulktrk	No.	Driver	Poz. Mix
		Brett	
Bulktrk	No.	Driver	Gel.
10		Brian	7

<b>JOB SERVICES &amp; REMARKS</b>			
Remarks:	Calcium		
	12		

Rat Hole	Hulls

Mouse Hole	Salt

Centralizers	Flowseal
	81#

Baskets	Kol-Seal

D/V or Port Collar	Mud CLR 48

8 7/8 on bottom. Est. Circulation.	CFL-117 or CD110 CAF 38
Mix 325 cum 1 1/2" plug.	

Cement Circulated	Sand

Mileage	Handling
	344

<b>FLOAT EQUIPMENT</b>	
Guide Shoe	8 7/8 Battle Plate

Centralizer	2
-------------	---

Baskets	2
---------	---

AFU Inserts	Rubber Plug
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Float Shoe	Latch Down.
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Pumptrk Charge	Long Surface
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Mileage	22
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X Signature

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: 4/28/2012  
 Invoice # 401

P.O.#:  
 Due Date: 5/28/2012  
 Division: Russell

# Invoice

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

**Reference:**  
 SANDRA 1-25

**Description of Work:**  
 PLUG JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 1,005.76	Yes				
Common-Class A	111	\$ 1,491.58	Yes				
Bulk Truck Mat-Material Service Charge	193	\$ 425.16	Yes				
POZ Mix-Standard	74	\$ 374.93	Yes				
Pump Truck Mileage-Job to Nearest Camp	21	\$ 230.84	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	21	\$ 135.08	Yes				
Flo Seal	50	\$ 110.14	Yes				
Premium Gel (Bentonite)	6	\$ 107.59	Yes				
Dry Hole Plug	1	\$ 61.68	Yes				

**Invoice Terms:**

Net 30

SubTotal: \$ 3,942.77  
 Discount Available ONLY if Invoice is Paid & Received  
 within listed terms of invoice: \$ (591.42)

SubTotal for Taxable Items:	\$ 3,351.35
SubTotal for Non-Taxable Items:	\$ -
Total:	\$ 3,351.35
Tax:	\$ 211.14

6.30% Ellis County Sales Tax

**Thank You For Your Business!**

**Amount Due: \$ 3,562.49**  
**Applied Payments:**  
**Balance Due: \$ 3,562.49**

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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DR LG  COMP  W/O  LOE  GG

**RECEIVED**

MAY 04 2012

SAMUEL GARY JR.  
 & ASSOCIATES, INC.

Account	8200.138
Well/Prospect	
Deck	
AFE	
Approval	<i>WJG</i>
Description	



# 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. 401

Date	4-25-12	Sec.	25	Twp.	15	Range	16	County	Ellis	State	Ks	On Location		Finish	9:30PM
Lease	Sandra	Well No.	1-25		Location		Galatia Rd + OTIS Rd, N to L								
Contractor	Discovery #2				Owner		w + N to Rig on trail								
Type Job	Plug				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	7 7/8"		T.D.	3530'		Charge To	Sam Gary Jr. + Associates								
Csg.			Depth			Street									
Tbg. Size	4 1/2" D.P.		Depth	3410'		City	State								
Tool			Depth			The above was done to satisfaction and supervision of owner agent or contractor.									
Cement Left in Csg.			Shoe Joint			Cement Amount Ordered	185 sx 60/40 4% Gel								
Meas Line			Displace	H2O / mud											
<b>EQUIPMENT</b>						1/4# F.S.									
Pumptrk	9	No.	Cementer	Matt		Common	111								
Bulktrk	14	No.	Driver	Lonnie		Poz. Mix	74								
Bulktrk	p.w.	No.	Driver	Rick		Gel.	6								
<b>JOB SERVICES &amp; REMARKS</b>						Calcium									
Remarks:	Cement did Circulate.					Hulls									
Rat Hole						Salt									
Mouse Hole						Flowseal 50#									
Centralizers						Kol-Seal									
Baskets						Mud CLR 48									
D/V or Port Collar						CFL-117 or CD110 CAF 38									
	3410' - 25 SX					Sand									
	956' - 25 SX					Handling 193									
	348' - 80 SX					Mileage									
	40' - 10 SX w/ plug					<b>FLOAT EQUIPMENT</b>									
	Rathole - 30 SX					Guide Shoe									
	Mouse hole - 15 SX					Centralizer									
						Baskets									
						AFU Inserts									
						Float Shoe									
						Latch Down									
						1 - Dryhole plug									
						Pumptrk Charge									
						Mileage 21									
<b>Signature</b>						Tax									
<i>[Signature]</i>						Discount									
<b>Total Charge</b>						plug									





## DRILL STEM TEST REPORT

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

1515 Wynkoop Ste. #700  
Denver, CO 80202

ATTN: Clayton Camozzi

**Sandra #1-25**

**25-15s-16w Ellis,KS**

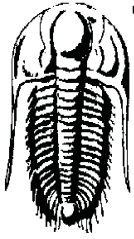
Start Date: 2012.04.23 @ 23:37:15

End Date: 2012.04.24 @ 08:39:15

Job Ticket #: 47221                      DST #: 1

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

Printed: 2012.04.27 @ 16:18:34



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates, Inc.

**25-15s-16w Ellis,KS**

1515 Wynkoop Ste. #700  
Denver, CO 80202

**Sandra #1-25**

Job Ticket: 47221

**DST#: 1**

ATTN: Clayton Camozzi

Test Start: 2012.04.23 @ 23:37:15

## GENERAL INFORMATION:

Formation: **LKC "I-K"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 02:01:45  
 Time Test Ended: 08:39:15  
 Interval: **3278.00 ft (KB) To 3354.00 ft (KB) (TVD)**  
 Total Depth: 3354.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Dustin Rash  
 Unit No: 38  
 Reference Elevations: 1858.00 ft (KB)  
 1850.00 ft (CF)  
 KB to GR/CF: 8.00 ft

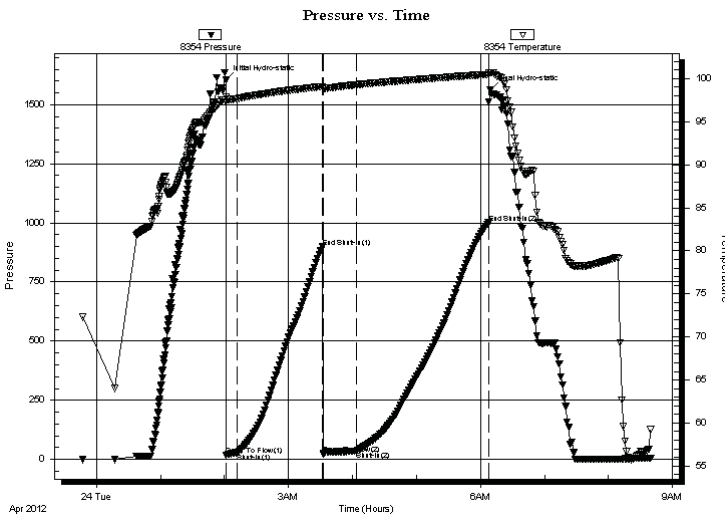
## Serial #: 8354

Inside

Press@RunDepth: 35.35 psig @ 3282.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2012.04.23 End Date: 2012.04.24 Last Calib.: 2012.04.24  
 Start Time: 23:47:15 End Time: 08:39:15 Time On Btm: 2012.04.24 @ 02:01:15  
 Time Off Btm: 2012.04.24 @ 06:09:15

TEST COMMENT: IF-Weak building blow . Built to 2 inches.  
 IS-No Return.  
 FF-Strong surge then weak building blow . Built to 9 inches.  
 FS-No Return. Times-10-75-30-120

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1604.06	97.84	Initial Hydro-static
1	17.64	97.31	Open To Flow (1)
11	28.26	97.70	Shut-In(1)
91	898.29	99.09	End Shut-In(1)
92	22.10	98.93	Open To Flow (2)
123	35.35	99.29	Shut-In(2)
246	1000.47	100.48	End Shut-In(2)
248	1562.14	100.71	Final Hydro-static

## Recovery

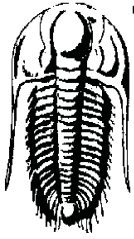
Length (ft)	Description	Volume (bbl)
50.00	30%Oil/70%Mud	0.42
0.00	140' G.I.P.	0.00

## Gas Rates

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







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Samuel Gary Jr. & Associates, Inc.

**25-15s-16w Ellis,KS**

1515 Wynkoop Ste. #700  
Denver, CO 80202

**Sandra #1-25**

Job Ticket: 47221

**DST#: 1**

ATTN: Clayton Camozzi

Test Start: 2012.04.23 @ 23:37:15

## Tool Information

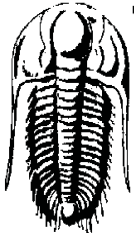
Drill Pipe:	Length: 3224.00 ft	Diameter: 3.80 inches	Volume: 45.22 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer: 26000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 4000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3278.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	76.00 ft			
Tool Length:	106.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Recorder	0.00	8653	Fluid	3248.00	
Change Over Sub	1.00			3249.00	
Shut In Tool	5.00			3254.00	
Sampler	2.00			3256.00	
Hydraulic tool	5.00			3261.00	
Jars	5.00			3266.00	
Safety Joint	3.00			3269.00	
Packer	5.00			3274.00	30.00 Bottom Of Top Packer
Packer	4.00			3278.00	
Stubb	1.00			3279.00	
Perforations	3.00			3282.00	
Recorder	0.00	8354	Inside	3282.00	
Recorder	0.00	8520	Outside	3282.00	
Change Over Sub	1.00			3283.00	
Drill Pipe	62.00			3345.00	
Change Over Sub	1.00			3346.00	
Perforations	5.00			3351.00	
Bullnose	3.00			3354.00	76.00 Bottom Packers & Anchor

**Total Tool Length: 106.00**



**TRILOBITE**  
**TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Samuel Gary Jr. & Associates, Inc.

**25-15s-16w Ellis,KS**

1515 Wynkoop Ste. #700  
Denver, CO 80202

**Sandra #1-25**

Job Ticket: 47221

**DST#: 1**

ATTN: Clayton Camozzi

Test Start: 2012.04.23 @ 23:37:15

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

38 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4300.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	30%Oil/70%Mud	0.419
0.00	140' G.I.P.	0.000

Total Length: 50.00 ft      Total Volume: 0.419 bbl

Num Fluid Samples: 0

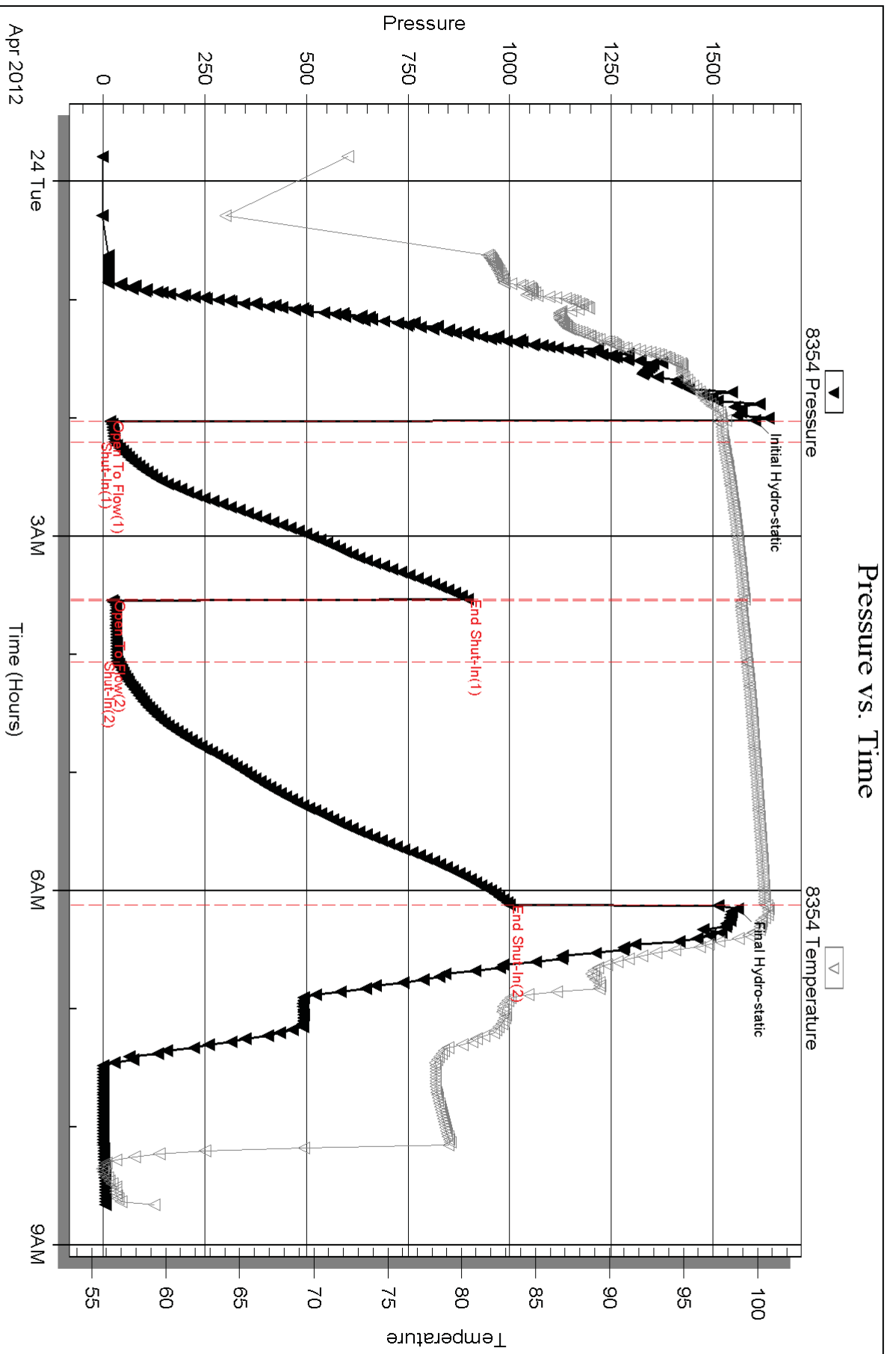
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler-400mL Total. 1800mL Oil.  
5.25 Cubic Feet Gas. 525# Pressure.  
Oil Gravity- 38



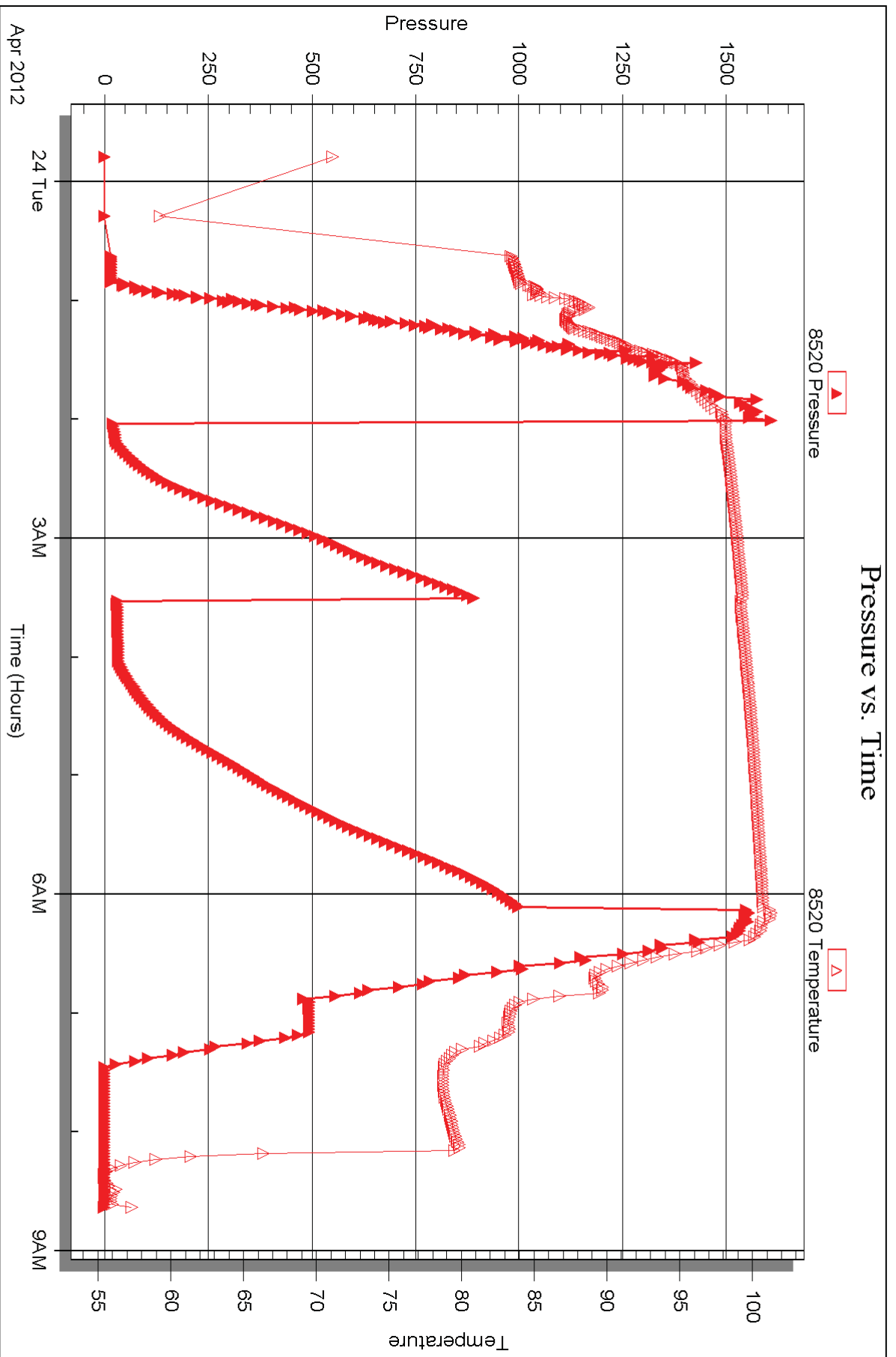


Serial #: 8520

Outside Samuel Gary Jr. & Associates, Inc.

Sandra #1-25

DST Test Number: 1



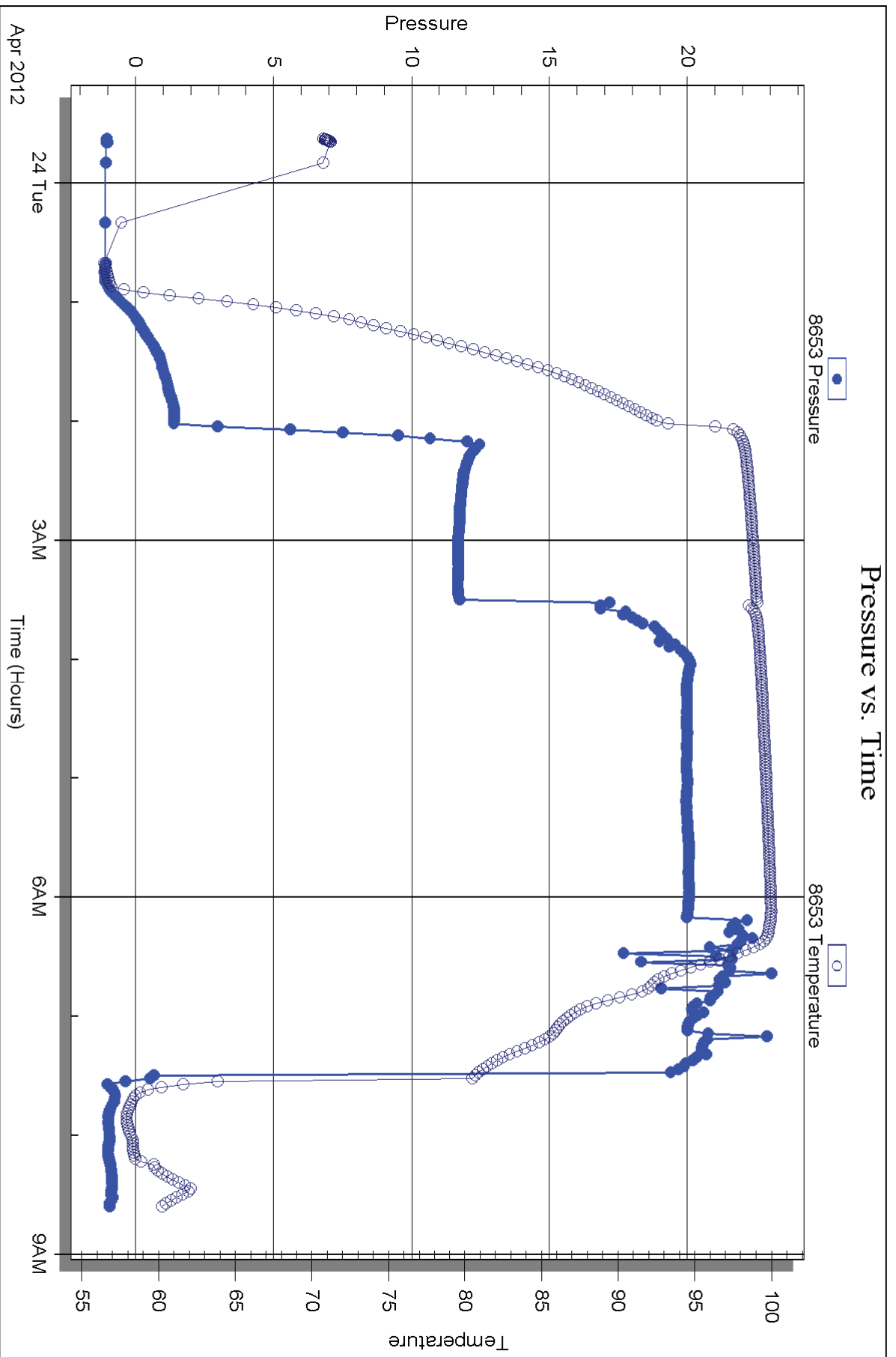
Serial #: 8653

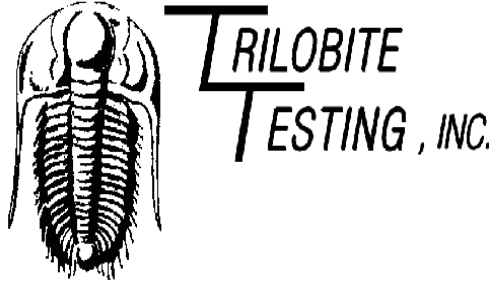
Fluid

Samuel Gary Jr. & Associates, Inc.

Sandra #1-25

DST Test Number: 1





## DRILL STEM TEST REPORT

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

1515 Wynkoop Ste. #700  
Denver, CO 80202

ATTN: Clayton Camozzi

**Sandra #1-25**

**25-15s-16w Ellis,KS**

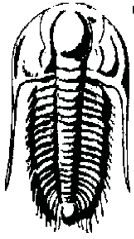
Start Date: 2012.04.24 @ 16:58:15

End Date: 2012.04.24 @ 22:58:15

Job Ticket #: 47222                      DST #: 2

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

Printed: 2012.04.27 @ 16:17:50



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates, Inc.

**25-15s-16w Ellis,KS**

1515 Wynkoop Ste. #700  
Denver, CO 80202

**Sandra #1-25**

Job Ticket: 47222

**DST#: 2**

ATTN: Clayton Camozzi

Test Start: 2012.04.24 @ 16:58:15

## GENERAL INFORMATION:

Formation: **Penn Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:49:25

Time Test Ended: 22:58:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Rash

Unit No: 38

**Interval: 3346.00 ft (KB) To 3390.00 ft (KB) (TVD)**

Reference Elevations: 1858.00 ft (KB)

Total Depth: 3390.00 ft (KB) (TVD)

1850.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8354 Inside**

Press@RunDepth: 20.90 psig @ 3350.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.04.24 End Date: 2012.04.24

Last Calib.: 2012.04.24

Start Time: 17:08:15 End Time: 22:58:15

Time On Btm: 2012.04.24 @ 18:49:15

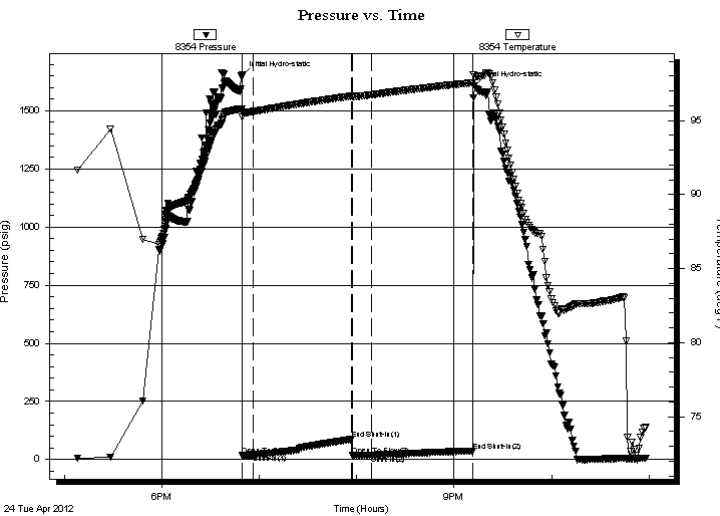
Time Off Btm: 2012.04.24 @ 21:12:45

**TEST COMMENT:** IF-Weak surface blow . Died @ 5 minutes.

ISI-No Return.

FF-No Blow .

FSI-No Return. Times-5-60-10-60



## PRESSURE SUMMARY

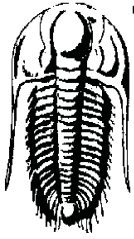
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1652.22	95.81	Initial Hydro-static
1	18.64	95.21	Open To Flow (1)
8	22.62	95.61	Shut-In(1)
68	87.47	96.64	End Shut-In(1)
68	20.09	96.62	Open To Flow (2)
80	20.90	96.72	Shut-In(2)
142	37.95	97.54	End Shut-In(2)
144	1606.94	97.93	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
3.00	1% Oil/99% Mud	0.02

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates, Inc.

**25-15s-16w Ellis, KS**

1515 Wynkoop Ste. #700  
Denver, CO 80202

**Sandra #1-25**

Job Ticket: 47222

**DST#: 2**

ATTN: Clayton Camozzi

Test Start: 2012.04.24 @ 16:58:15

## GENERAL INFORMATION:

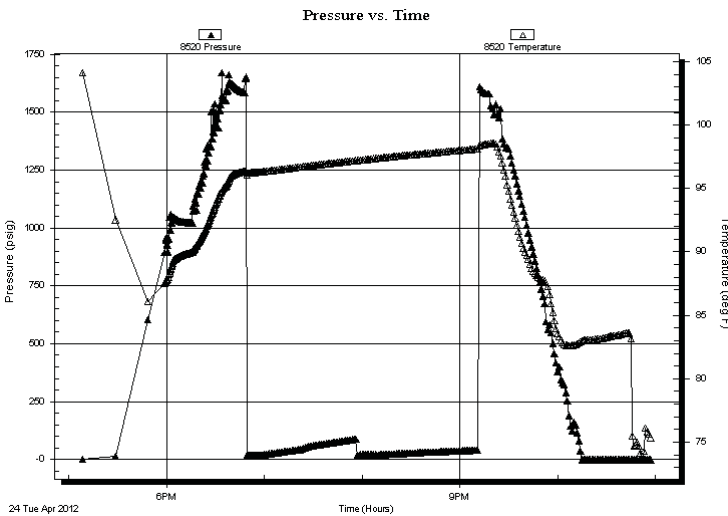
Formation: **Penn Sand**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 18:49:25 Tester: Dustin Rash  
 Time Test Ended: 22:58:15 Unit No: 38  
 Interval: **3346.00 ft (KB) To 3390.00 ft (KB) (TVD)** Reference Elevations: 1858.00 ft (KB)  
 Total Depth: 3390.00 ft (KB) (TVD) 1850.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

**Serial #: 8520 Outside**

Press@RunDepth: psig @ 3350.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2012.04.24 End Date: 2012.04.24 Last Calib.: 2012.04.24  
 Start Time: 17:08:30 End Time: 22:57:30 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** IF-Weak surface blow . Died @ 5 minutes.  
 IS-No Return.  
 FF-No Blow .  
 FS-No Return. Times-5-60-10-60

## PRESSURE SUMMARY



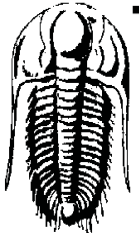
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

## Recovery

Length (ft)	Description	Volume (bbl)
3.00	1% Oil/99% Mud	0.02

## Gas Rates

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



TRILLOBITE TESTING, INC.

# DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates, Inc.

25-15s-16w Ellis,KS

1515 Wynkoop Ste. #700  
Denver, CO 80202

Sandra #1-25

ATTN: Clayton Camozzi

Job Ticket: 47222

DST#: 2

Test Start: 2012.04.24 @ 16:58:15

## GENERAL INFORMATION:

Formation: **Penn Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:49:25

Time Test Ended: 22:58:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Rash

Unit No: 38

Interval: **3346.00 ft (KB) To 3390.00 ft (KB) (TVD)**

Reference Elevations: 1858.00 ft (KB)

Total Depth: 3390.00 ft (KB) (TVD)

1850.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

## Serial #: 8653 Fluid

Press@RunDepth: psig @ 3316.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.04.24

End Date: 2012.04.24

Last Calib.: 2012.04.24

Start Time: 16:58:46

End Time: 22:56:15

Time On Btm:

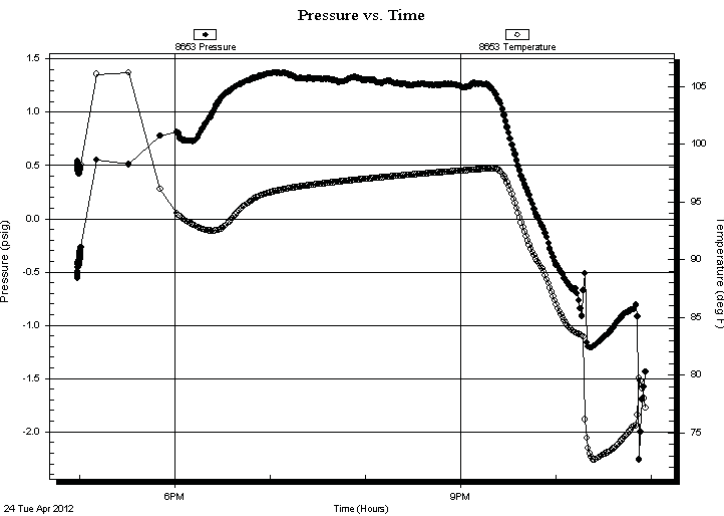
Time Off Btm:

TEST COMMENT: IF-Weak surface blow . Died @ 5 minutes.

ISI-No Return.

FF-No Blow .

FSI-No Return. Times-5-60-10-60



## PRESSURE SUMMARY

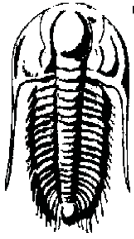
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

## Recovery

Length (ft)	Description	Volume (bbl)
3.00	1%Oil/99%Mud	0.02

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Samuel Gary Jr. & Associates, Inc.

**25-15s-16w Ellis,KS**

1515 Wynkoop Ste. #700  
Denver, CO 80202

**Sandra #1-25**

Job Ticket: 47222

**DST#: 2**

ATTN: Clayton Camozzi

Test Start: 2012.04.24 @ 16:58:15

## Tool Information

Drill Pipe:	Length: 3316.00 ft	Diameter: 3.80 inches	Volume: 46.51 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 28000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.70 inches	Volume: 0.22 bbl	Weight to Pull Loose: 4000.00 lb
			<u>Total Volume: 46.73 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3346.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	44.00 ft			
Tool Length:	74.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

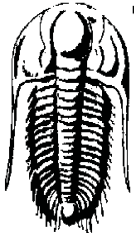
Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Recorder	0.00	8653	Fluid	3316.00	
Change Over Sub	1.00			3317.00	
Shut In Tool	5.00			3322.00	
Sampler	2.00			3324.00	
Hydraulic tool	5.00			3329.00	
Jars	5.00			3334.00	
Safety Joint	3.00			3337.00	
Packer	5.00			3342.00	30.00 Bottom Of Top Packer
Packer	4.00			3346.00	
Stubb	1.00			3347.00	
Perforations	3.00			3350.00	
Recorder	0.00	8354	Inside	3350.00	
Recorder	0.00	8520	Outside	3350.00	
Change Over Sub	1.00			3351.00	
Drill Pipe	30.00			3381.00	
Change Over Sub	1.00			3382.00	
Perforations	5.00			3387.00	
Bullnose	3.00			3390.00	44.00 Bottom Packers & Anchor

**Total Tool Length: 74.00**





**TRILOBITE**  
**TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Samuel Gary Jr. & Associates, Inc.

**25-15s-16w Ellis,KS**

1515 Wynkoop Ste. #700  
Denver, CO 80202

**Sandra #1-25**

Job Ticket: 47222

**DST#: 2**

ATTN: Clayton Camozzi

Test Start: 2012.04.24 @ 16:58:15

## 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: 9.17 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7800.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	1%Oil/99%Mud	0.021

Total Length: 3.00 ft      Total Volume: 0.021 bbl

Num Fluid Samples: 0

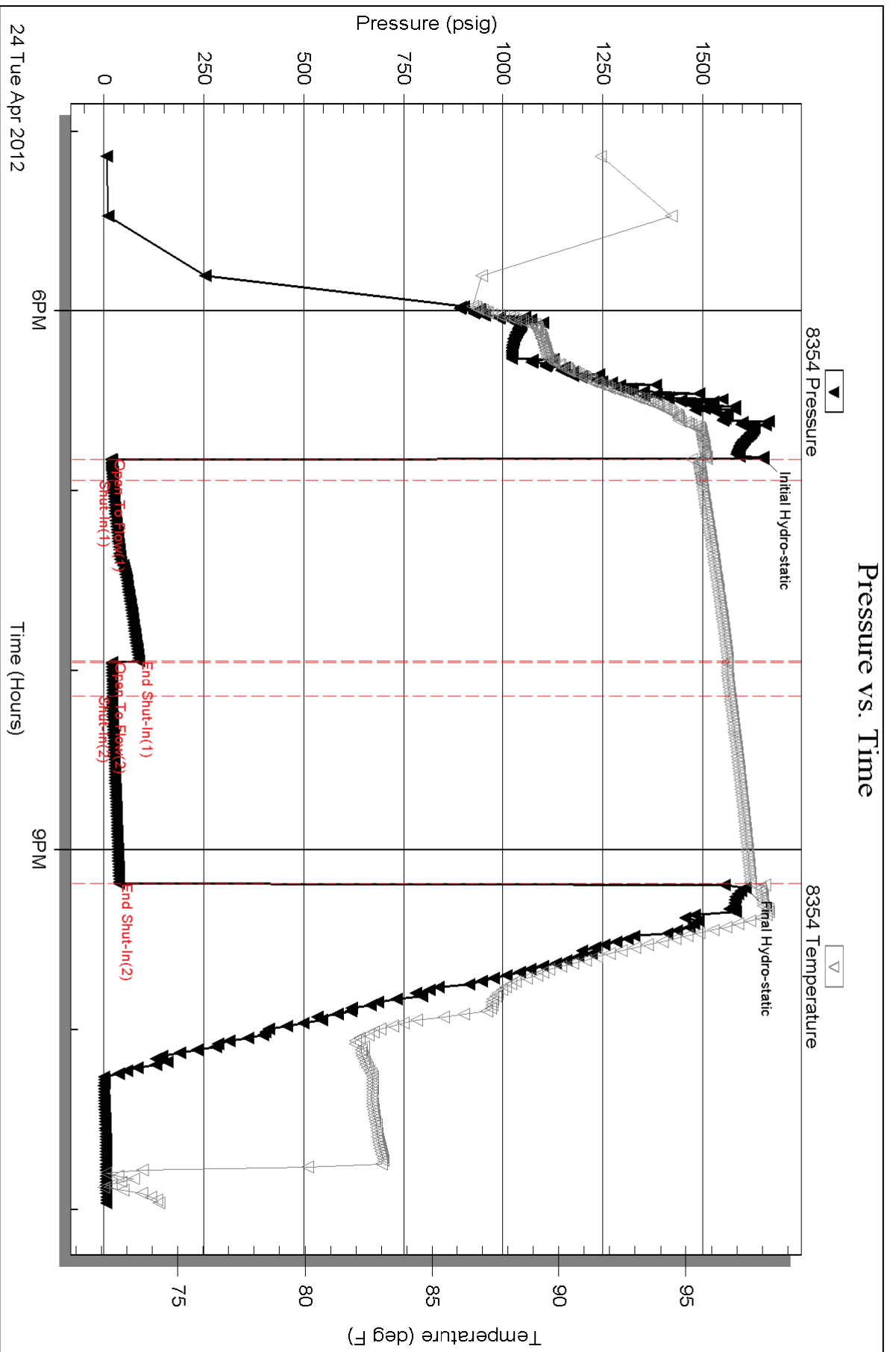
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler-4000mL Total. 50mL Oil. 3950 mL Mud  
25# Pressure.

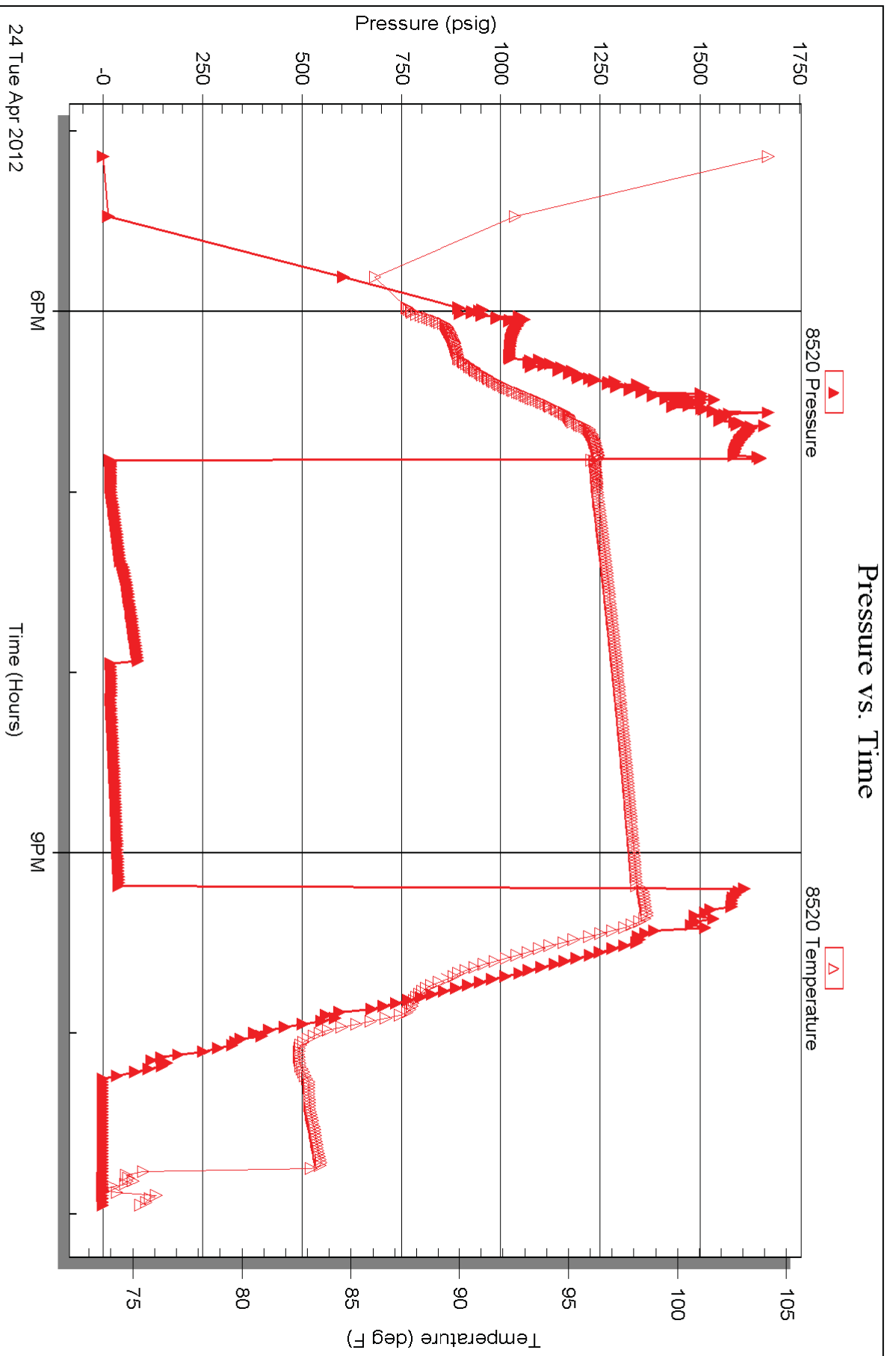


Serial #: 8520

Outside Samuel Gary Jr. & Associates, Inc.

Sandra #1-25

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 47222

Printed: 2012.04.27 @ 16:17:53

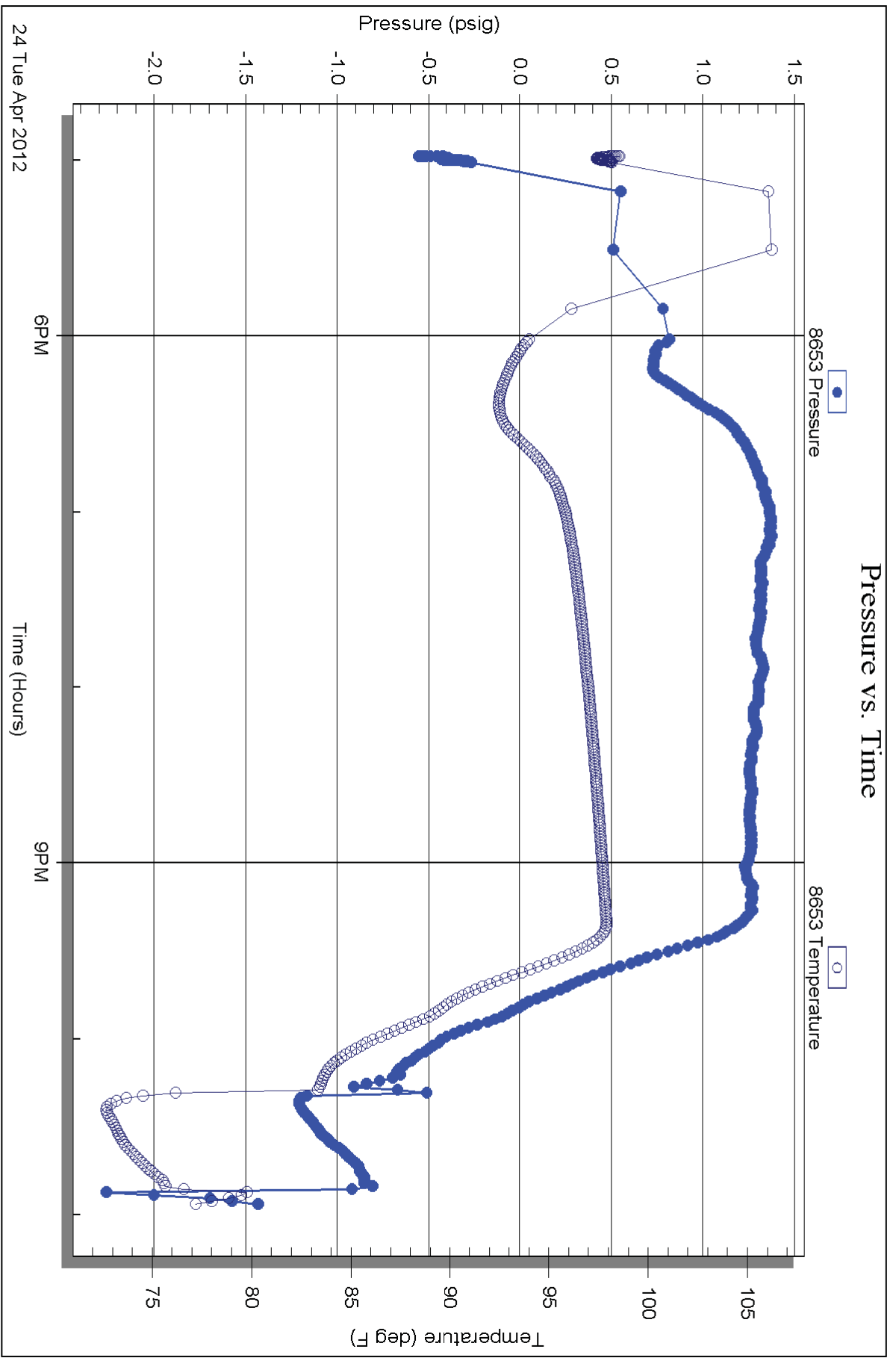
Serial #: 8653

Fluid

Samuel Gary Jr. & Associates, Inc.

Sandra #1-25

DST Test Number: 2





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

Well Name: Sandra 1-25  
 Location: Sec. 25-15S-16W Ellis County, Kansas  
 License Number: 15-051-26284-0000  
 Spud Date: April 19, 2012  
 Surface Coordinates: 1350 FSL/ 1050 FEL  
 Region: WILDCAT  
 Drilling Completed: April 25, 2012

Bottom Hole Coordinates:  
 Ground Elevation (ft): 1842' K.B. Elevation (ft): 1850'  
 Logged Interval (ft): 2800' To: 3530' Total Depth (ft): 3530'  
 Formation: LANSING, ARBUCKLE  
 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: CLAYTON CAMOZZI

**GEOLOGIST**

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



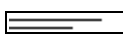

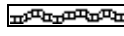



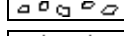



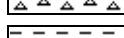








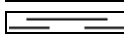
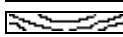


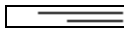




**DST's Report**

DST#1 3278-3354' 10 75 30 120  
 IF- BLT TO 2"/ ISI-NB/ FF-BLT TO 9"/ FSI-NB/  
 IH-1604. FH-1562/ IF-18 TO 28, FF-22 TO 35/ ISI-898, FSI-1000  
 RECOVERED- 140' GIP, 50' TF, HOCM 30% OIL, 70% MUD, BHT 101 DEG./ PIT CHL-4300  
 SAMPLER- 5.25 C. FT GAS/1800 ML OIL/525 PSI- TOTAL 1800

**DST's Report**

DST#2 3346-3390 5 60 10 60  
 IF-DIED IN 5 MIN./ ISI-NB/ FF-NB/ FSI-NB  
 IH-1652, IH-1607/ IF- 19 TO 23, FF-20 TO 21/ ISI-87 , FSI-38  
 RECOVERED- 3' TF- 3' MUD W/ OIL SPECKS BHT 98 DEG./ PIT CHL-7800  
 SAMPLER-50 ML OIL, 3950 ML MUD, 25 PSI, 4000 TOTAL

**ROCK TYPES**

 Anhy	 Gyp	 Shgy	 Sandylms
 Bent	 Igne	 Sltst	 Shale
 Brec	 Lmst	 Ss	 Sltstn
 Cht	 Meta	 Till	 Shlyslts
 Clyst	 Mrlst	 Carb sh	 Sltysl
 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
- 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

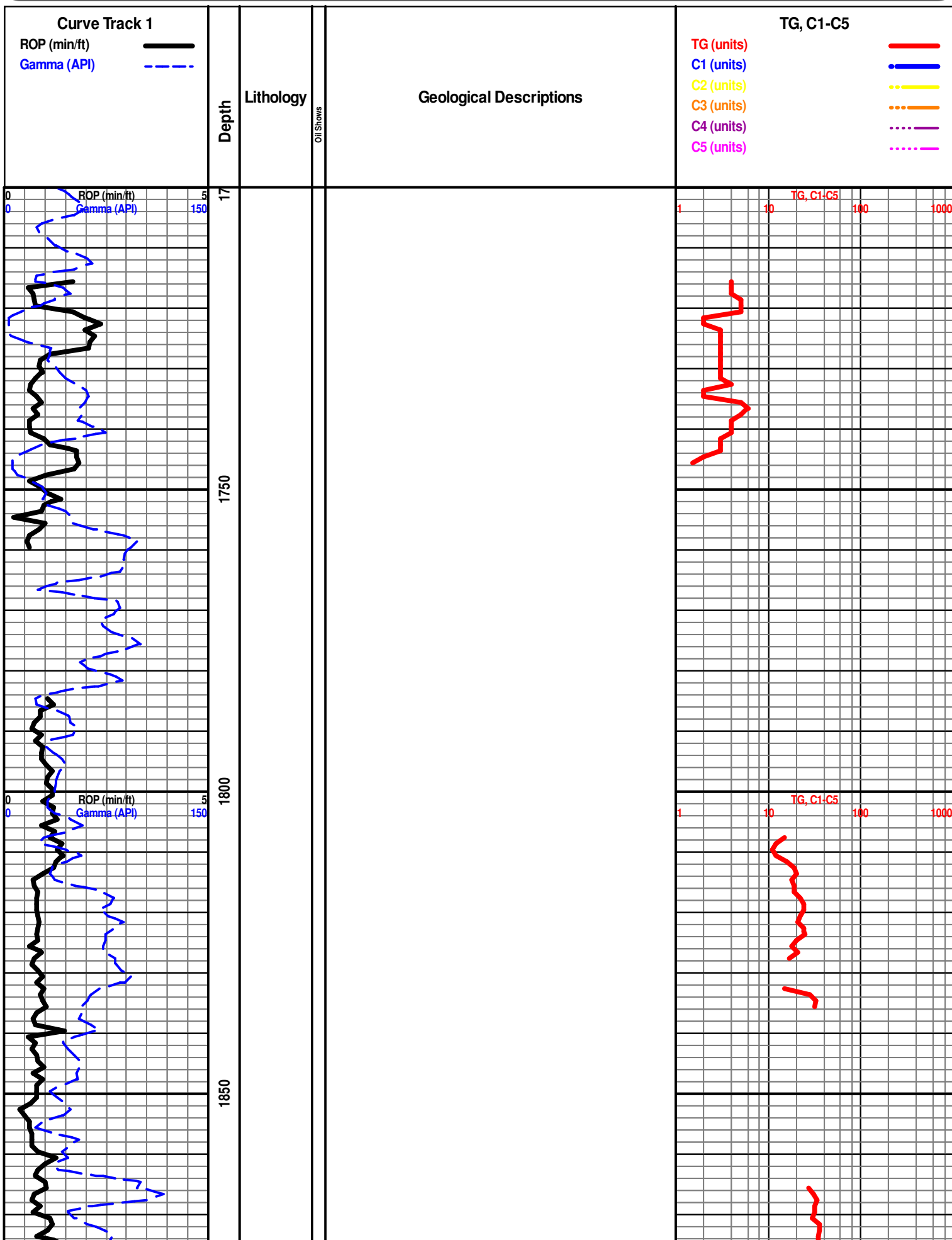
- Even
- Spotted
- Ques
- Dead
- Gas show

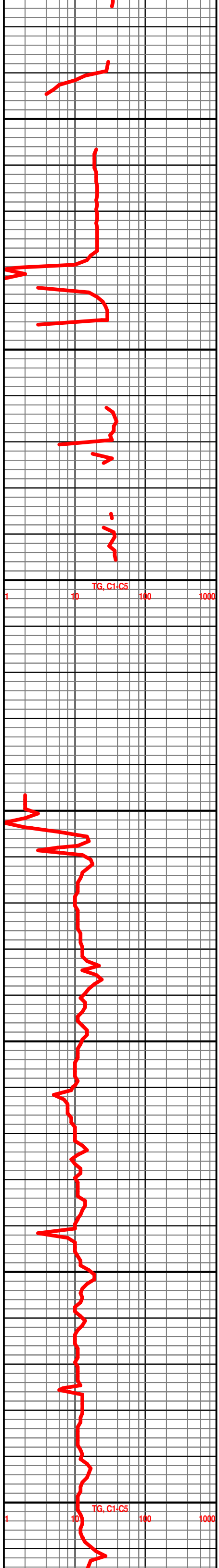
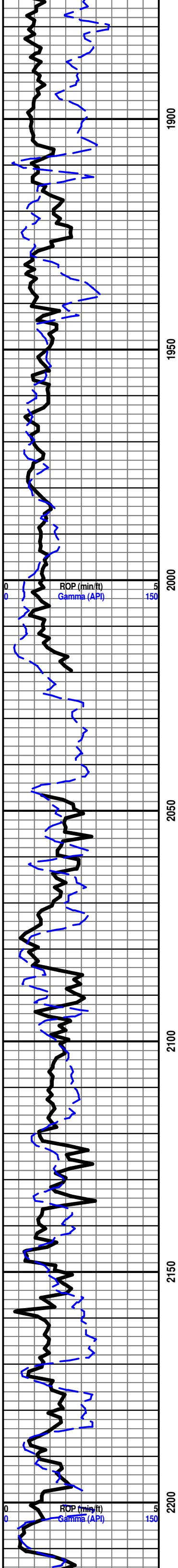
#### INTERVALS

- Core
- Dst
- Dst

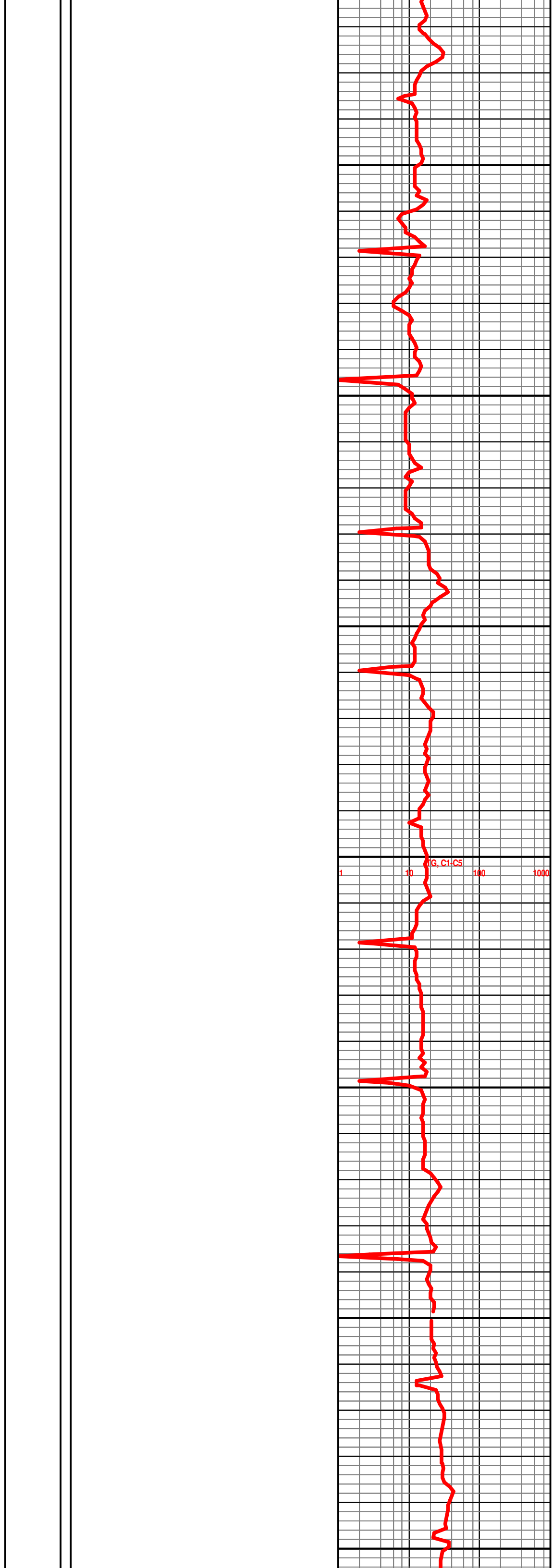
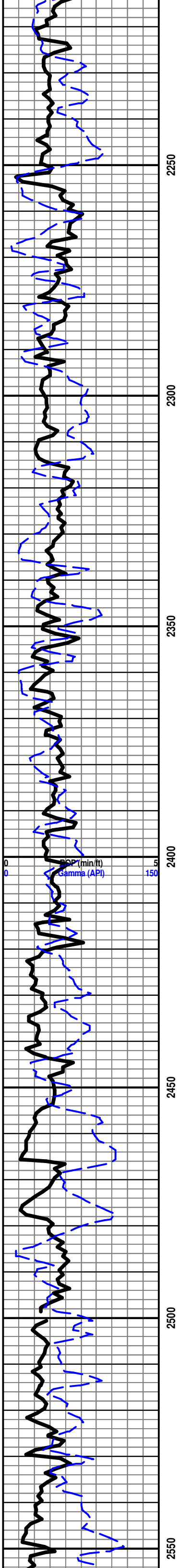
#### EVENTS

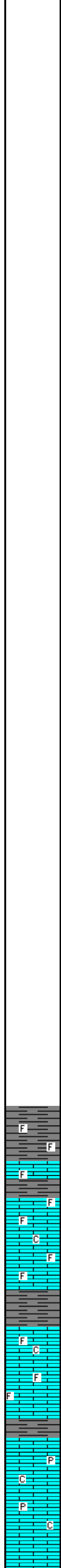
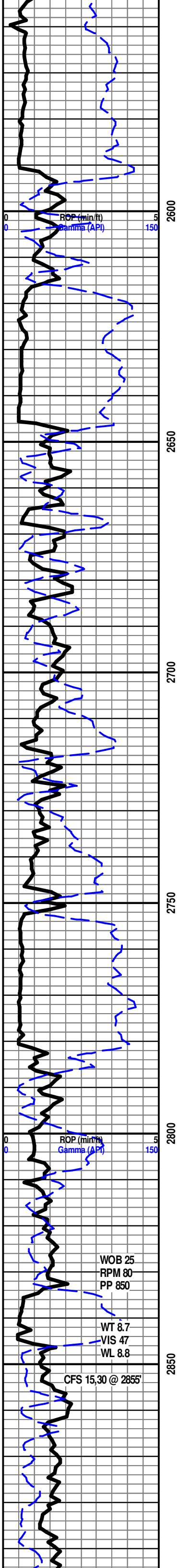
- Rft
- Sidewall











**BRS 2591' - 741'**

**BEGIN MANNED UNIT 4/22/2012**

**HOWARD 2781' - 931'**

SH- LT TO MD GY- FRM BLKY SMTH TXT , TR FOSS IMBD IP

LS- CRM BFF LT GY- HD DNS MD-F-XLN RE-XLN IP, IMBD FOSS FRGS IP TR IMBD DISS LT GR SH IP, TR IMBD SMLL CALC XLS IP, SLI TR SFT WHT CHLK IP, V/ DLL YEL MIN FLO, NO VS POR, NO VIS SHOW

**SEVERY 2833' - 983'**

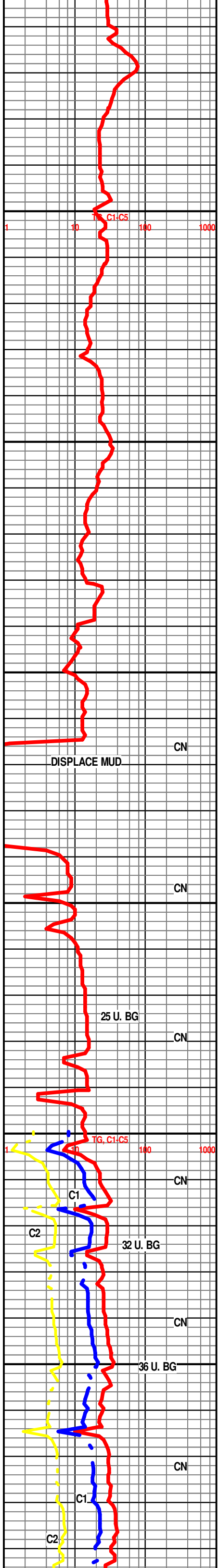
**TOPEKA 2842' - 992'**

LS-OFF WHT TO CRM BFF- HD BRITT, V/ SUCRO S-CHLKY MTRX, RE-XLN IP SMLL FOSS FRGS IP, ABDT SFT WHT CHLK IP, V/V/DLL YEL MIN FLO THRU, NO VIS POR, NO VIS SHOW

SH- LT TO MD GY- FRM BLKY SMTH TXT SLI GMMY IP

LS- CRM LT TN TN- HD DNS HD DNS IP TO BRITT, F-XLN TO SUCRO S-CHLKY IP, SLI TR WHT CHLK, SLI TR PYR, IP, NO FLO, NO VIS POR, NO VIS SHOW

LS- CRM LT TN TN- HD DNS IP TO BRITT, F-V/F-XLN IP TO



WOB 25  
RPM 80  
PP 850

WT 8.7  
VIS 47  
WL 8.8

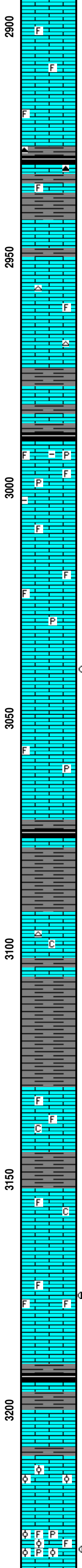
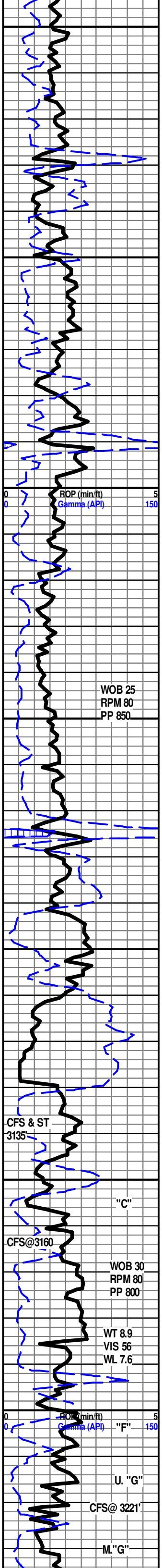
CFS 15,30 @ 2855'

DISPLACE MUD

25 U. BG

32 U. BG

36 U. BG



SUCRO SLI S-CHLKY IP ,DLL YEL MIN FLO IP TO NO FLO , NO VIS POR, NO VIS SHOW

LS- LT TN TN LT GY- HD DNS MD-F-XLN RE-XLN MTRX, IMBD FOSS FRGS SCAT THRU, DLI TR IMBD SH IP, NO FLO, NO VIS POR, NO VIS SHOW

SH- DK GY TO BLK SFT CARB W. IMBD BLK TO OPQUE CHRT

**LeCOMPTON 2950' - 1100'**

LS- CRM LT TN TN- HD DNS TO BRITT, F-XLN TO V/ TT SUCRO MTRX, TR FOSS FRGS IP, TR WHT CHRT IP, LT YEL MIN FLO, IP, NO VIS POR, NO VIS SHOW

SH- LT TO MD GY- FRM BLKY SMTH TXT IP TO SLI GRNY, SLI CALC IP

SH- BLK SFT CARB

LS- LT TN TN HD DNS V/F-CRYPTO-XLN IP TO MD-FXLN RE-XLN , W/ IMBD PYR IP , TR FREE PYRITIZED FOSS FRGS IP, SLI TR IMBS DISS LT GY SH IP, LT YEL MIN FLO, NO VIS POR, NO VIS SHOW

LS- CRM LT TN TN LT BRN - HD DNS MD-F-XLN RE-XLN MTRX, ABDT IMBD FOSS FRGS IP, SMLL VRGTD CALC IMBD IP, LT YEL MIN FLO, NO VIS POR, NO VIS SHOW

LS- OFF WHT WHT TO CRM TN TR OIL STN IN 1%, HD TO MD HD, V/ SUCRO S-CHLKY TO CHLKY MTRX, SLI TR FOSS IP, DLL YEL MIN FLO THRU, TR BRIT YEL GLD FLO IN 1%, NO VIS POR, V/ WK SLO STRM CUT IN 1%, NO ODOR , NO STN ON DISH

LS- CRM BFF- HD DNS IP TO BRITT, MD-F-XLN SLI RE-XLN IP, SLI TR FOSS FRGS IP , SLI TR FNLY DISS PYR IP, LT YEL MIN FLO, NO VIS POR, NO VIS SHOW OR CUT

**HEEBNER 3072' - 1222'**

SH- LT TO MD GY- FRM BLKY SMTH TXT TO SLI GRNY IP

LS- OFF WHT CRM- HD DNS TO BRITT, F-XLN TO MD-XLN IP , SLI S-CHLKY IP, TR IMBD CHRT IP, BRIT YEL MIN FLO, NO VIS POR, NO VIS SHOW

**DOUGLAS 3106' - 1256'**

SH- RED GRN - MOTT, V/ SFT GMMY TXT TO SFT SLTY IP

**LANSING 3129' - 1279'**

LS- OFF WHT CRM BFF- HD DNS MD-F-XLN, SLI RE-XLN IP, TR FOSS FRGS IP, SLI TR WHT CHLK, NO FLO TO TR BRIT YEL MIN FLO IP, NO VIS POR, NO VIS SHOW

**LANSING "C" 3152' - 1302'**

LS- OFF WHT CRM BFF- HD DNS IP TO BRITR, MD-XLN RE-XLN TO SUCRO S-CHLKY IP TO TR SFT WHT CHLKY IP, TR FOSS IP, LT BRIT YEL MIN FLO, NO VIS POR, NO VIS SHOW

3174-3176' LS- CRM LT N TN TN- (TN STN IN 50%) 4 ROCKS, HD DNS IP TO V/ BRITT, MD-XLN V/ RE-XLN MTRX, V/ FOSS IP, DLL YEL GLD FLO THRU, PR VIS INTER-FOSS POR IN 50%, EXCEL INST FLSH CUT IN 50%, GD SLO STRM MLKY BLU CUT IN 50%, FR OIL ODOR,

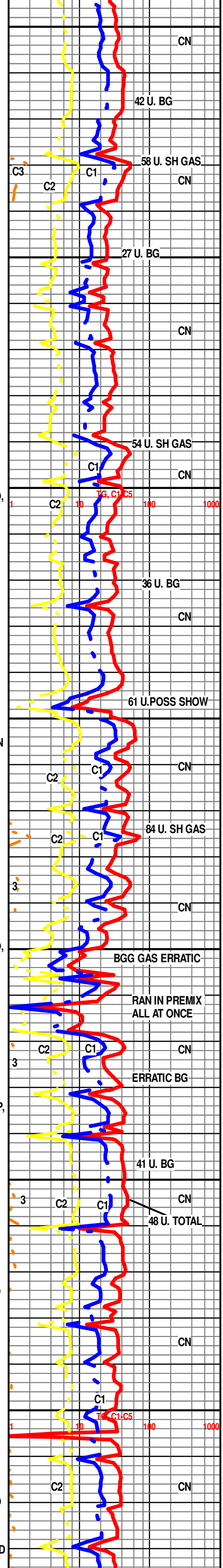
SH- BLK SFT CARB IP TO V/ DK GY FRM BLKY IP

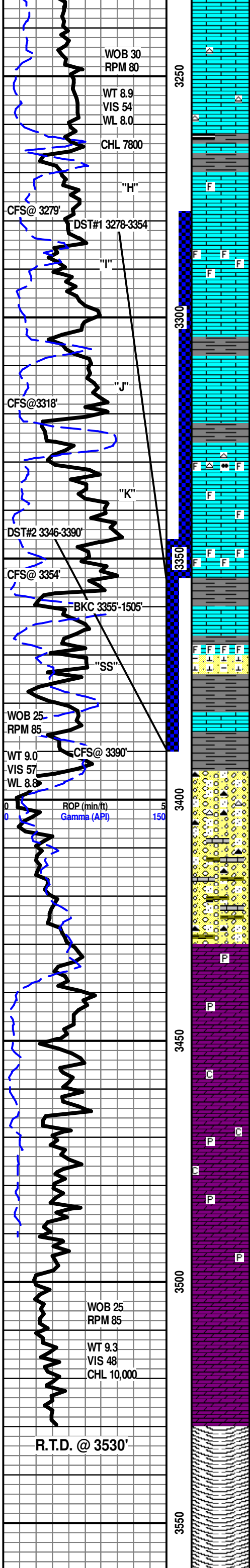
**LANSING "F" 3200' - 1350'**

LS- OF WHT CRM BFF- HD DNS TO BRITT, F-XLN TO SUCRO S-CHLKY IP TR IMBD LRG CALC XLS IP, LT YEL MIN FLO IP, NO VIS POR, NO VIS SHOW OR CUT

LS- OFF WHT CRM LT TN IP, HD IP TO V/ SFT, MD-F-XLN RE-XLN MTRX, ABDT IMBD MD OOL, SMLL CALC XLS IMBD IP, HVY TR ABDT SFT WHT CHLK, DLL YEL MIN FLO IP, NO VIS POR, NO VIS SHOW OR CUT

3226-3231' LS OFF WHT CRM LT TN ( LT TN STN IN 20%,) HD DNS TO BRITT IP, ABDT IMBD SMLL OOL IP, TR FOSS





FRGS , TR LRG CALC XLS IP, TR OOLMLD IP, HVY TR DISS PYR IMBD IN 20%, DLL YEL FLO IN 80%, BRIT YEL GLD FLO IN 20%, PR VIS INTER-FOSS AND PR VIS INT-OOL POR IN 10%, WK FLSH CUT IN 20%, FR SLO STRM CUT IN 15%, NO ODOR , NO STN ON DISH

LS- CRM LT TN - HD DNS V/F-CRYPTO-XLN SLI TR WHT CHRT , TR SFT WHT CHLK, NO FLO, NO VIS POR, NO VIS SHOW

**LANSING "H" 3268' - 1418'**

LS- OFF WHT CRM - HD DNS TR BRITT, F-V/F-XLN RE-XLN IP TR IMBD LMNTD SMLL CALC XLS, SLI TR FOSS FRGS IP,LT BRIT YEL MIN FLO, NO VIS POR, NO VIS SHOW

3285-3288 LS- WHT OFF WHT LT TN & BLK DUE TO TN OIL STN IN 50% & DOS IN 25%, HD DNS TO BRITT IP, MD-F-XLN RE-XLN MTRX, V/ FOSS THRU, PR TO FR TO TR GD VIS INTER-FOSS POR SCAT THRU, BRIT YEL GLD FLO IN 60%, DLL YEL GLD FLO IN 30%, FR FLSH CUT IN 60%, FR TO GD SLO STRM CUT IN 60%, FR OIL ODOR, NO STN ON DISH

LS- CRM LT TN- HD DNS V/F-CRYPTO-XLN TR S-LITHO IP FRLY NON DESCRIPT. LT BRIT YEL MIN FLO IP TO NO FLO, NO VIS POR , NO VIS SHOW

3326- 3331' LS- OFF WHT CRM LT TN TN( DUE TO OIL STN SCAT THRU, SLI TR LIVE OIL IN 1%), HD DNS IP TO V/V/BRITT, F- XLN TO MD-XLN RE-XLN IP, HVY TR FOSS FRGS IP, IMBD TRNSLCNT WHT CHRT IP, TR FNLY DISS PYR IP, TR WHT CHLK IP, V/BRIT YEL GLD FLO IN 80%, DLL YEL GLD SPTTD FLO IN 20%, PR VIS INTER-FOSS POR IN 20%, SCAT FR MICROVUG TO VUG POR IN 20%,FR VIS INTER-XLN POR IP, GD FLSH CUT IN 80%, FR SLO STRM CUT IN 80%, GD OIL ODOR, LT TN STN ON DISH

3333- 3342' LS-CRM LT TN TN( TN STN SCAT THRU, TR DOS IP) HD DNS TO SLI TR BRITT, F-V/F-XLN , CRYPTO-XLN IP, SLI RE-XLN IP, HVYTR SCAT SMLL TO MD CALC XLS IN VUGS AND ON ONE FACES OF ROCK, TR FOSS FRGS IP, BRIT YEL GLD FLO SCAT THRU, DLL YEL GDL FLI SCAT IP, PR VIS SCAT MICROVUG POR, PR INTER-XLN POR, POSS FRACT POR IP, V/ GD FLSH CUT THRU, V/ GD SLO STRM CUT THRU, GD OIL ODOR, NO STN ON DISH

3347-3351 LS- OFF WHT CRM BLK IP, (DUE TO DOS IN VUGS SCAT THRU) HD DNS BRITT IP, F- V/F-XLN RE-XLN MTRX, ABTD IMBD FOSS FRGS THRU , ABTD IMBD CLR SMLL MD AND LRG CALC XLS THRU, TR FREE PBBLE SIZED CALC XLS W. LT OIL STN, BRIT YEL GLD FLO SPTTD FLO THRU, DLL YEL GLD SPTTD FLO THRU,PR TO TR FR MICROVUG POR SCAT IN 50%, PR SCAT INTER-XLN POR THRU, EXCEL FLSH CUT THRU , EXCEL SLO STRM CUT THRU, V/ GD OIL ODOR, TN STN ON DISH

3368-3370- LS LT TN TN (OIL STN IN 80%) HD DNS TO BRITT, MD-FXLN V/ RE-XLN MTRX, ABTD IMBD FOSS & ABTD FREE FOSS W/ OIL STN, DK BRN STN & LT BRN STN, DLL YEL GLD FLO IN 90%, BRIT YEL GLD FLO IN 10%, TR V/ PR VIS INTER-FOSS POR IP, EXCEL INST FLSH CUT THRU TO EXCEL SLO STRM MLKY BLU CUT THRU, NO ODOR, DK TN OIL STN ON DISH

3371-3378 SS- CRM LT TN TN- HD DNS TO SLI TR FRI IP, CLR TO FRSTY QURTZ GRNS, SMLL TO MD GRNS, AND TO S-ANG, FR SRT,V/CALC CMNT TO SLI TR SIL CMNT IP,HVY TR IMBD CHLK IP, HVYTR IMBD DISS LT GY SH IP, NO FLO, NO VIS POR, V/ LT GSSYCUT IP, NO ODOR, NO STN ON DISH

3388-3390- SH - V/ DK RED TO BRNSH RED- V/ SFT GMMY TXT

CONGL- ABTD WHT TN RED CHRT, ,RED SH GMMY TO GY FRM IP, ABTD IMBD CLR S-RND FRSTY QURTZ GRNS V/ PR SRT, W/ V/ CALC CMNT

**ARBUCKLE 3430' - 1530'**

DOLO- LT TN TN - HD DNS TO SLI TR BRIT( DOS IP ), F-XLN TO V/ CRS SUCRO MTRX, ABTD IMBD ANG DOLO GRNS, TR IMBD DISS PYR, BRIT YEL MIN FLO THRU, NO VIS POR TO TR INTER-XLN POR IP, SLI TR V/WK SLO STRM CUT IP

DOLO- OFF WHT LT TN TN - HD DNS TO SLI TR BRIT, F-XLN TO V/ CRS SUCRO MTRX, ABTD IMBD ANG DOLO GRNS, SLI TR IMBD SFT WHT CHLK, BRIT YEL MIN FLO THRU, NO VIS POR TO TR INTER-XLN POR IP, NO VIS SHOW

DOLO- OFF WHT CRM LT TN TN( DOS IP)- HD DNS TO BRITT IP, F- XLN, V/ SUCRO MTRX, ABTD IMBD ANG DOLO GRNS IP, ABTD SFT WHT CHLK IP, TR FREE SFT CHLK, TR IMBD PYR IP, LT BRIT YEL MIN THRU, PR VIS INTER-XLN POR IN 20%,NO VIS CUT OR SHOW

DOLO- OFF WHT CRM - HD DNS TO BRITT IP, F- XLN, V/ SUCRO MTRX, ABTD IMBD ANG DOLO GRNS IP, ABTD SFT WHT CHLK IP, TR IMBD PYR IP, LT BRIT YEL MIN THRU, PR VIS INTER-XLN POR IN 30%,TR VUG POR IN 5%, NO VIS CUT OR SHOW

DOLO- OFF WHT TO WHT- HD DNS TO BRITT, F-XLN TO V/ CRS SUCRO MTRX, ABTD IMBD ANG DOLO GRNS THRU, TR SFT WHT CHLK IP SCT IMBD PYR IP, BRIT YEL MIN FLO THRU, PR TO FR VIS INTER-XLN PER IP, NO VIS SHOW OR CUT

R.T.D. AT 5:15 AM 4/19/2012

CTCH 1.5 HRS

TOFL

