



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1173639  
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: \_\_\_\_\_



1173639

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

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> <i>(Submit ACO-4)</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	MURPHY ET AL 1-14
Doc ID	1173639

All Electric Logs Run

DEN-NEUT
INDUCTION
MICRO
SONIC
SPECTRAL



**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: 8/29/2013  
 Invoice # 6724  
 P.O.#:  
 Due Date: 9/28/2013  
 Division: Russell

9/26

# Invoice

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

*Murphy*  
**Reference:**  
 MURRY ET AL 1-14

**Description of Work:**  
 LONG SURFACE JOB

DRLG  COMP  W/O  LOE  GG

Account	8200.138
Well/Prospect	
Deck	
AFE	<i>[Signature]</i>
Approval	
Description	

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 991.39	No				
Common-Class A	350	\$ 5,700.00	Yes				
8 5/8" Basket	3	\$ 1,029.26	Yes				
Bulk Truck Matl-Material Service Charge	370	\$ 803.43	No				
Calcium Chloride	13	\$ 672.69	Yes				
8 5/8" Centralizer	3	\$ 208.46	Yes				
Pump Truck Mileage-Job to Nearest Camp	17	\$ 184.20	No				
Premium Gel (Bentonite)	7	\$ 123.73	Yes				
8 5/8" Top Rubber Plug	1	\$ 115.09	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	17	\$ 107.79	No				
Baffle Plate Aluminum, 8 5/8"	1	\$ 97.71	Yes				

**Invoice Terms:**

Net 30  
 SubTotal: \$ 10,033.74  
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (1,505.06)

SubTotal for Taxable Items:	\$ 6,754.89
SubTotal for Non-Taxable Items:	\$ 1,773.79

Total: \$ 8,528.68  
 Tax: \$ 415.43

**Thank You For Your Business!**

6.15% Ellis County Sales Tax  
**RECEIVED**

SEP 06 2013

SAMUEL GARY JR & ASSOCIATES INC

**Amount Due: \$ 8,944.11**  
**Applied Payments:**  
**Balance Due: \$ 8,944.11**

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. 6724

Date	8-29-13	Seq.	14	Twp.	15	Range	16	County	EMIS	State	KS	On Location	7:00 AM	Finish	10:00 AM
Lease	Murray			ET AL		Location			Walker 3to Chetolan gold						
Well No.	1-14			Owner			RD 1 E M4 to								
Contractor	Vol 6			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	Surface			Char. To											
Hole Size	12 1/4			T.D.			863			Sam Gary Jr & Associates					
Csg.	5 5/8			Depth			863.11			Street					
Tbg. Size				Depth						City State					
Tool				Depth						The above was done to satisfaction and supervision of owner agent or contractor.					
Cement Left in Csg.	42.52			Shoe Joint			42.52			Cement Amount Ordered 350 30/60					
Meas Line				Displace			52.14			290 gal					
<b>EQUIPMENT</b>										Common 350					
Pumptrk	5			No. Cementer Helper			M4			Poz. Mix					
Bulktrk	13			No. Driver			Lonnie W			Gel. 7					
Bulktrk	pu			No. Driver			Dove			Calcium 13					
<b>JOB SERVICES &amp; REMARKS</b>										Hulls					
Remarks:										Salt					
Rat Hole										Flowseal					
Mouse Hole										Kol-Seal					
Centralizers										Mud CLR 48					
Baskets										CFL-117 or CD110 CAF 38					
D/V or Port Collar										Sand					
Cement did										Handling 370					
Circulate										Mileage 85/8					
										<b>FLOAT EQUIPMENT</b>					
										Guide Shoe					
										Centralizer 3					
										Baskets 3					
										AFU Inserts					
										Float Shoe					
										Latch Down					
										Duffle plate					
										Rubber plug					
										Pumptrk Charge Long Surface					
										Mileage 17					
										Tax					
										Discount					
										Total Charge					
Signature										Pang D Marks					



**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: 9/3/2013  
 Invoice # 7853

P.O.#:  
 Due Date: 10/3/2013  
 Division: Russell

# Invoice

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

**Reference:** *Murphy*  
 MURRY-1-14

**Description of Work:**  
 PROD LONG STRING

**RECEIVED**  
**SEP 12 2013**  
**SAMUEL GARY JR. & ASSOCIATES, INC.**

DRLG  COMP  W/O  LOE  GG

Account	7300.238
Well/Prospect	
Deck	
Description	<i>[Signature]</i>

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 963.85	No	Salt (Fine)	19	\$279.98	Yes
Common-Class A	225	\$ 3,562.50	Yes	Latch Down Plug & Baffle, 5 1/2"	1	\$236.44	Yes
Gilsonite	1057	\$ 1,673.58	Yes	Pump Truck Mileage-Job to Nearest Camp	17	\$179.09	No
5 1/2" Basket	3	\$ 1,089.33	Yes	Flo Seal	56	\$118.22	Yes
CFL 117	117	\$ 760.76	Yes	Bulk Truck Mileage-Job to Nearest Bulk Plant	17	\$104.80	No
CD-110	176	\$ 743.11	Yes	KCL	2	\$63.04	Yes
Bulk Truck Matl-Material Service Charge	254	\$ 536.22	No				
5 1/2" Turbolizer	7	\$ 428.56	Yes				
Mud Clear	500	\$ 390.56	Yes				
Defoamer A or CAF-38	50	\$ 369.44	Yes				
Auto Fill Float Shoe, 5 1/2"	1	\$ 323.00	Yes				

**Invoice Terms:**

Net 30

SubTotal: \$ 11,822.48  
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (1,773.37)

SubTotal for Taxable Items:	\$ 8,532.74
SubTotal for Non-Taxable Items:	\$ 1,516.36
<b>Total:</b>	<b>\$ 10,049.11</b>
<b>Tax:</b>	<b>\$ 524.76</b>

6.15% Ellis County Sales Tax

**Thank You For Your Business!**

**Amount Due: \$ 10,573.87**  
**Applied Payments:**  
**Balance Due: \$ 10,573.87**

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. 7853

Date	4-3-13	Sec.	14	Twp.	15	Range	16	County	Ellis	State	KS	On Location	10:00pm	Finish	1:30 AM		
Lea	E+AL			Location		Walker Sts chelothgold											
Well No.	1-14		Owner RD 112 E Nin + O														
Contractor	Val C		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	pipe Job		Charge To Sam Gary Jr + Assoc.														
Hole Size	7 7/8		T.D.	3595		Street -											
Csg.	5 1/2		Depth	3491.02		City State											
Tbg. Size			Depth			The above was done to satisfaction and supervision of owner agent or contractor.											
Tool			Depth			Cement Amount Ordered 225 Q pro C 10% 5 H											
Cement Left in Csg.	42.45		Shoe Joint	42.45		5% Gilsonite 0.3% CD 110 0.25% CAF-38											
Meas Line	15.5 BBL		Displace	82.13 BBL		Common 225 0.8% CFL 117											
<b>EQUIPMENT</b>																	
Pumptrk	15	No.	Cementer	Matt		Poz. Mix											
			Helper			Gel.											
Bulktrk	17	No.	Driver	Nick		Calcium CD 110 176#											
			Driver			Hubs, KCL 2 gal											
Bulktrk	pu	No.	Driver	Lennie		Salt 19											
			Driver			Flowseal <del>KCL 2 gal</del> 56#											
<b>JOB SERVICES &amp; REMARKS</b>																	
Remarks:	Rat Hole 30 SA																
	Mouse Hole 15 SA																
	Centralizers 1, 35, 79, 11, 13																
	Baskets 4, 10, 16																
	D/V or Port Collar																
	Dropal Ball Cylindrical																
	1 inch Plugset Port mouse																
	hole Ran flush mixed																
	180 SA down hole Displace																
	82.13 BBL of water																
	500# lift PSI																
	1500# lower PSI																
	<b>Float Equipment</b>																
	Guide Shoe																
	Centralizer 7 + w/dos																
	Baskets 3 Beel																
	AFU Inserts																
	Float Shoe 1																
	Latch Down 1																
	Pumptrk Charge prod Long string																
	Mileage 17																
X Signature												Tax		Discount		Total Charge	



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Sam Gary Jr & Assoc inc

**14-15s-16w Ellis**

1515 Wynkoop  
STE 700  
Denver Co 80202  
ATTN: Chris Mitchell

**Murphy 1-14**

Job Ticket: 53343

**DST#: 1**

Test Start: 2013.09.01 @ 22:28:01

## GENERAL INFORMATION:

Formation: **LKC "F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:25:30

Time Test Ended: 07:28:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Andy Carreira

Unit No: 68

**Interval: 3245.00 ft (KB) To 3280.00 ft (KB) (TVD)**

Reference Elevations: 1920.00 ft (KB)

Total Depth: 3280.00 ft (KB) (TVD)

1910.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 10.00 ft

**Serial #: 8321 Inside**

Press @ Run Depth: 304.61 psig @ 3246.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.09.01

End Date:

2013.09.02

Last Calib.:

2013.09.02

Start Time: 22:28:01

End Time:

07:28:30

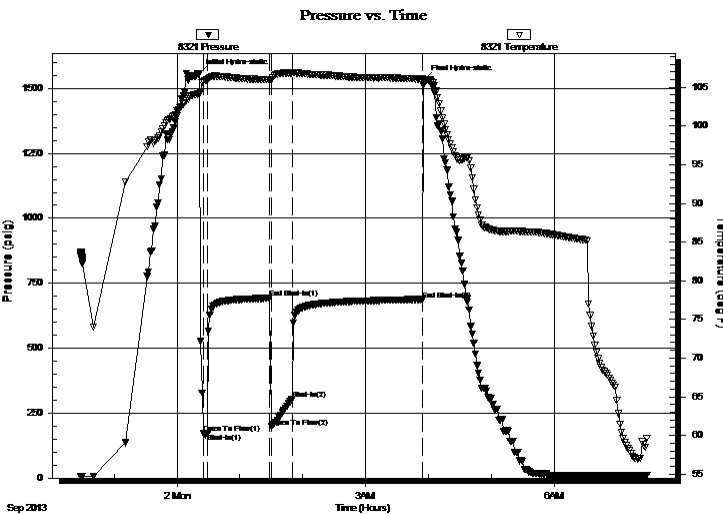
Time On Btm:

2013.09.02 @ 00:21:30

Time Off Btm:

2013.09.02 @ 03:56:00

**TEST COMMENT:** IF:(5min) BOB 2 min  
IS:(60min) 1/2" return blow  
FF:(20min) BOB 1 min  
FS:(120min) Return blow BOB 20 min



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1557.91	104.20	Initial Hydro-static
4	171.23	105.69	Open To Flow (1)
8	173.28	106.00	Shut-In(1)
67	692.26	105.98	End Shut-In(1)
69	197.30	105.87	Open To Flow (2)
89	304.61	106.80	Shut-In(2)
213	687.42	106.05	End Shut-In(2)
215	1532.32	106.01	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
200.00	MW m=10% w=90%	2.81
120.00	OCW o=15% w=85%	1.68
300.00	HWCGO g=40% w=30% o=30%	4.21
120.00	GOCMWg=10% m=20% o=30% w=40%	1.68
0.00	GIP=2080ft	0.00

## Gas Rates

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







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Sam Gary Jr & Assoc inc

**14-15s-16w Ellis**

1515 Wynkoop  
STE 700  
Denver Co 80202  
ATTN: Chris Mitchell

**Murphy 1-14**

Job Ticket: 53343

**DST#: 1**

Test Start: 2013.09.01 @ 22:28:01

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 52.00 sec/qt  
Water Loss: 8.78 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 4100.00 ppm  
Filter Cake: inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig

Oil API: deg API  
Water Salinity: 125000 ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
200.00	MW m=10% w=90%	2.805
120.00	OCW o=15% w=85%	1.683
300.00	HWCGO g=40% w=30% o=30%	4.208
120.00	GOCMWg=10% m=20% o=30% w=40%	1.683
0.00	GIP=2080ft	0.000

Total Length: 740.00 ft      Total Volume: 10.379 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments: Sampler- g=2000ml o=800ml w=1200ml m=tr pressure=500lbs  
Resistivity- .083@58deg=125000

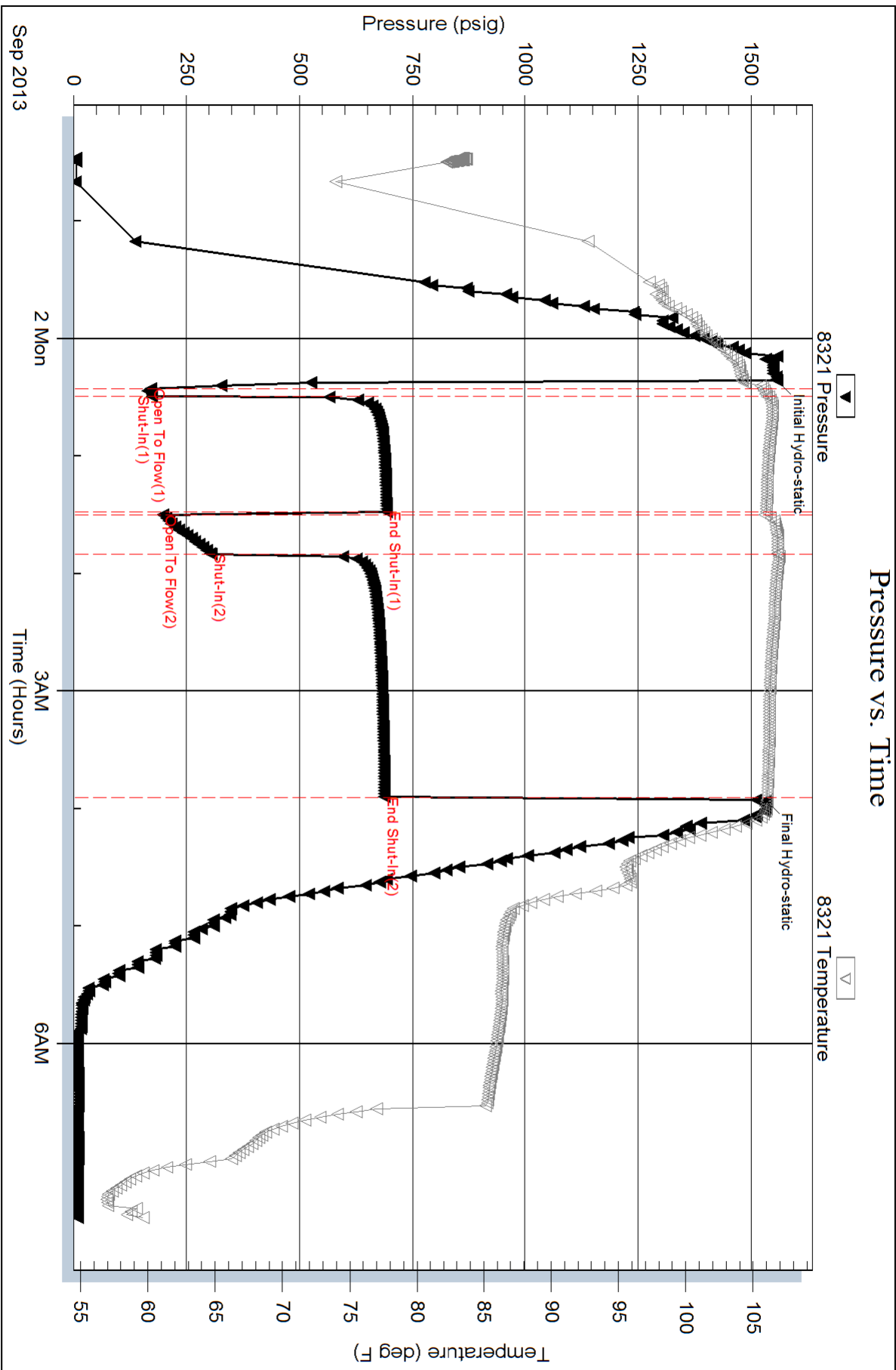
Serial #: 8321

Inside

Sam Gary Jr & Assoc inc

Murphy 1-14

DST Test Number: 1



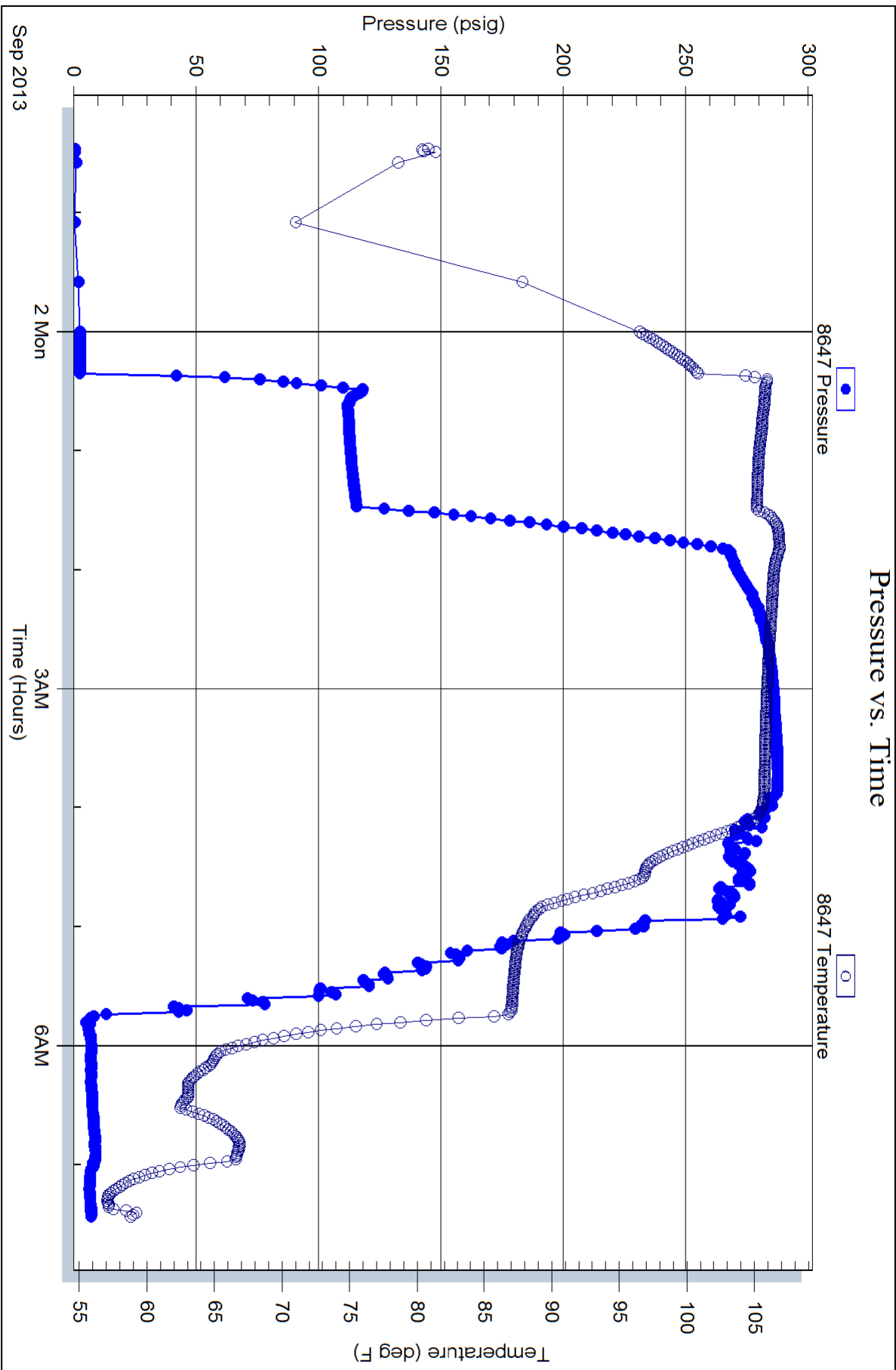
Serial #: 8647

Fluid

Sam Gary Jr & Assoc inc

Murphy 1-14

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 53343

Printed: 2013.09.02 @ 10:39:06



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

Well Name: Murphy et al 1-14  
 Location: Sec. 14-15S-16W, Ellis County, Kansas  
 License Number: 15-051-26593  
 Spud Date: 8/28/2013  
 Surface Coordinates: 120 FSL, 1700 FEL  
 Region: Wildcat  
 Drilling Completed: 9/03/2013

Bottom Hole Coordinates:  
 Ground Elevation (ft): 1910' K.B. Elevation (ft): 1920'  
 Logged Interval (ft): 1800' To: 3595' Total Depth (ft): 3595'  
 Formation:  
 Type of Drilling Fluid:

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

**OPERATOR**

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

**GEOLOGIST**

Name: Jeff Quimby  
 Company: Earth Tech OGL, Inc.  
 Address: PO Box 683  
 Hooker, Okla . 73945  
 Off. 888-543-8378 Cell: (580)754-0411

**DST's Report**

DST #1 3245'-3280' 5 60 20 120  
 IF: BOB 2MIN/ ISI: 1/2" RETURN BLO/ FF: BOB 1MIN/  
 FSI: RETURN BLO BOB 20MIN  
 IH: 1557/ IF: 171-173/ ISI: 692/ IS: 197-304/ FH: 1532  
 RECOVERY- 120' GOGMW 10%G 30%O 40%W 20%M/ 300' HWCGO 40%G 30%O 30%W/ 120' OCW 15%O 85%W/  
 200' MW 90%W 10%M  
 SAMPLER RECOVERY- GAS 2000ML, OIL 800ML, MUD TRACE, WATER 1200ML, 500PSI  
 TOTAL 4000ML  
 SAMP ANALYSIS- .083 OHMS@ 58 F/ CHLORIDES 125000PPM

**DST's Report**

**DST's Report**

**ROCK TYPES**

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

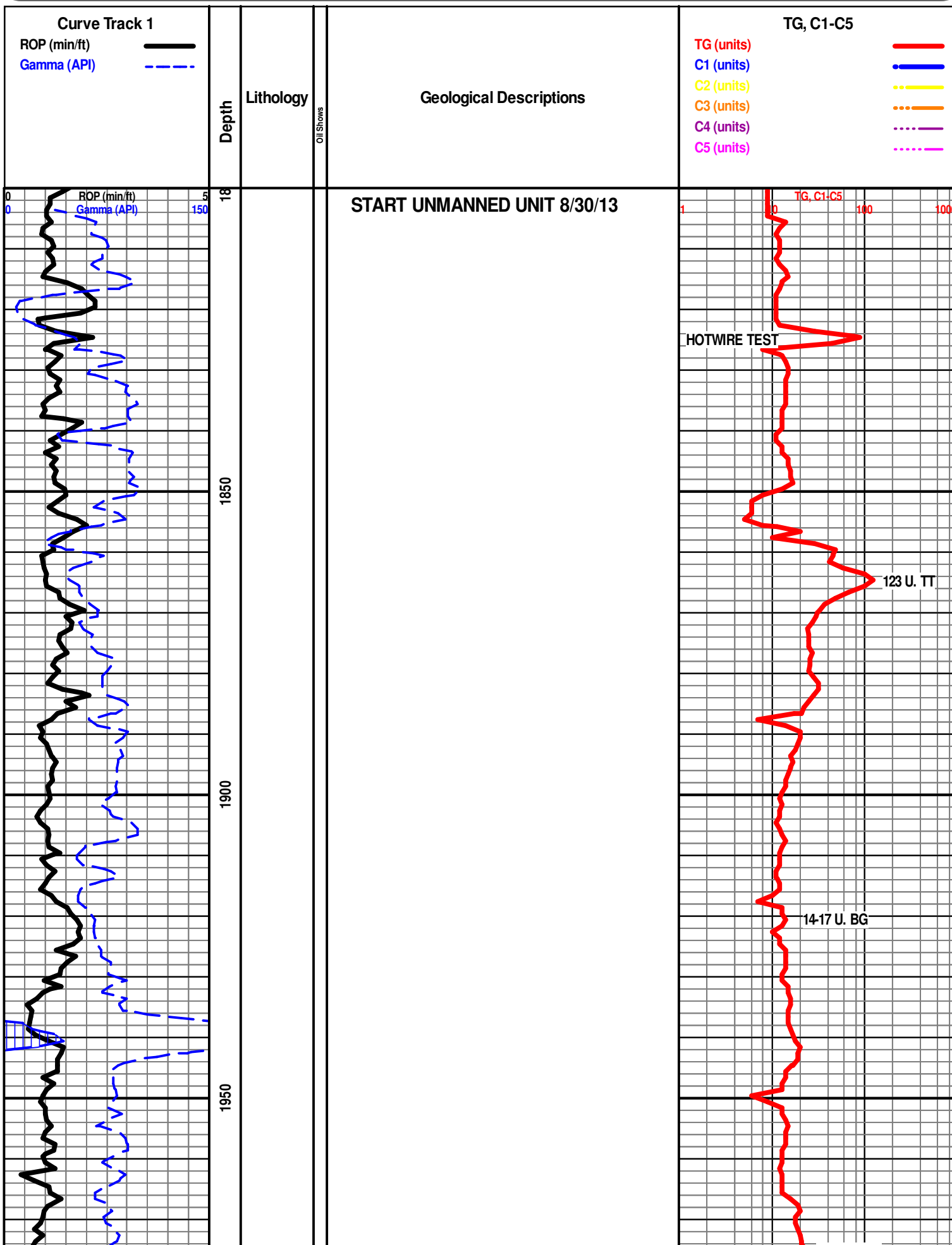
- Even
- Spotted
- Ques
- Dead
- Gas show

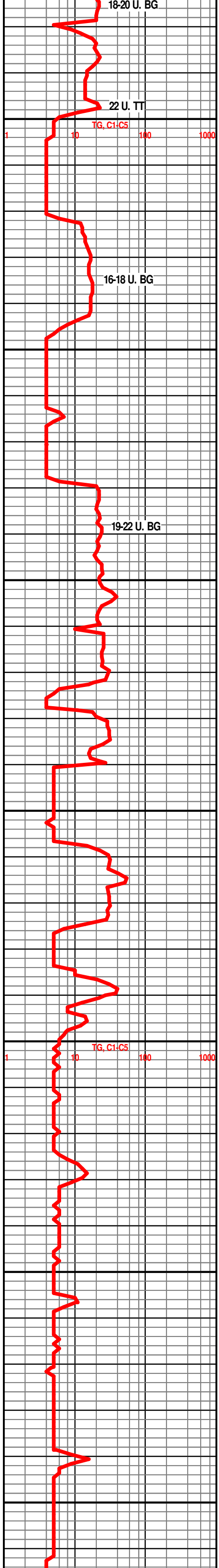
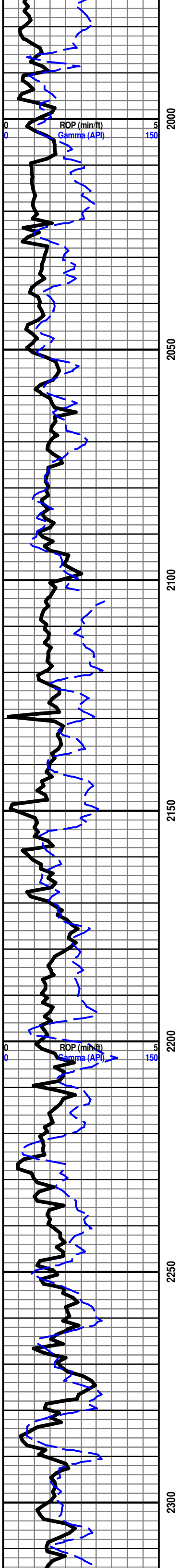
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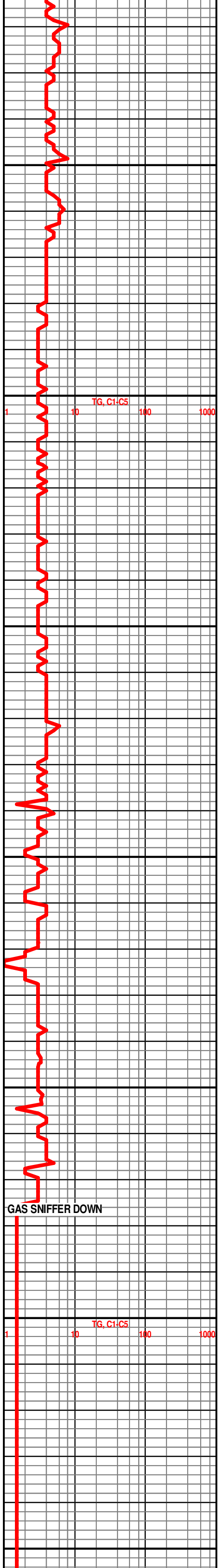
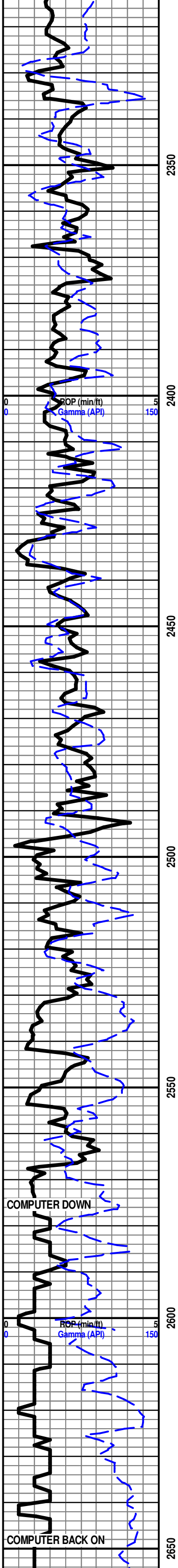
- Core
- Dst
- Dst

**EVENTS**

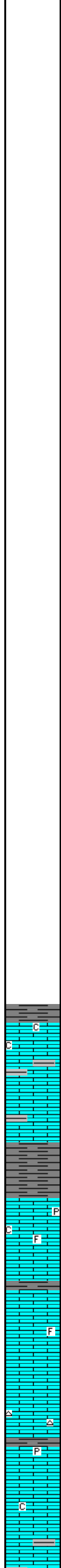
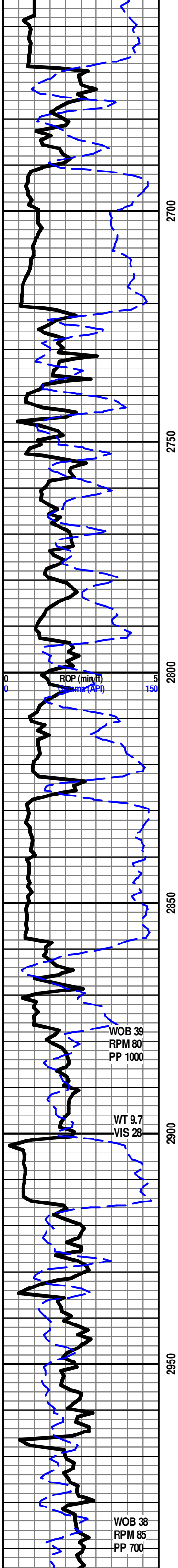
- Rft
- Sidewall



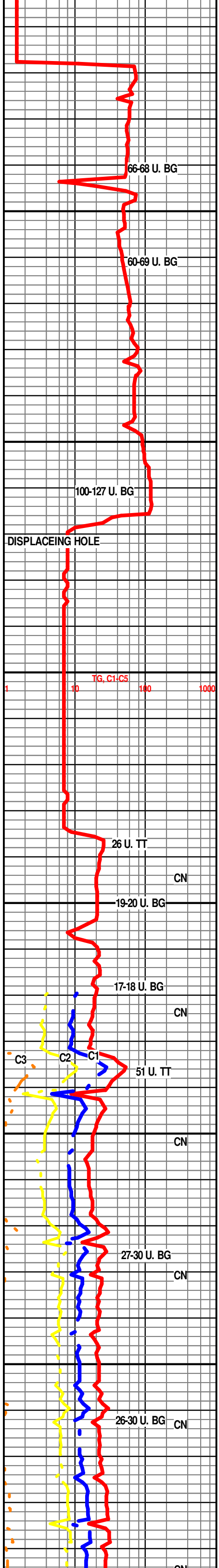








**BASE ROOT SHALE 2669' -749'**



**HOWARD 2856' -936'**

LS- OFF WHT TO MOTTED LT GRY, HD DNSE, FN-XLN TO RE-XLN MTRX IP, SCATT IMBD LT GRY SH IP, SLI TRS IMBD WHT CHLK IP, DLL YEL FLO, NO VIS POR, NO VIS CUT OR SHOW

**SEVERY 2901' -981'**

SH- DRK GRY TO GRY, SLI FRM TO BRITT, SPLNTY TO BLKY IP

**TOPEKA 2915' -995'**

LS- OFF WHT CRM BFF, HD DNSE, FN-XLN RE-XLN IP SLI SUB-CHLKY MTRX IP, TRS IMBD PYR IP, TRS IMBD FOSS FRGS IP, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

LS- OFF WHT TO LT GRY, HD DNSE, FN-XLN RE-XLN MTRX IP, SLI TRS IMBD FOSS FRGS IP, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

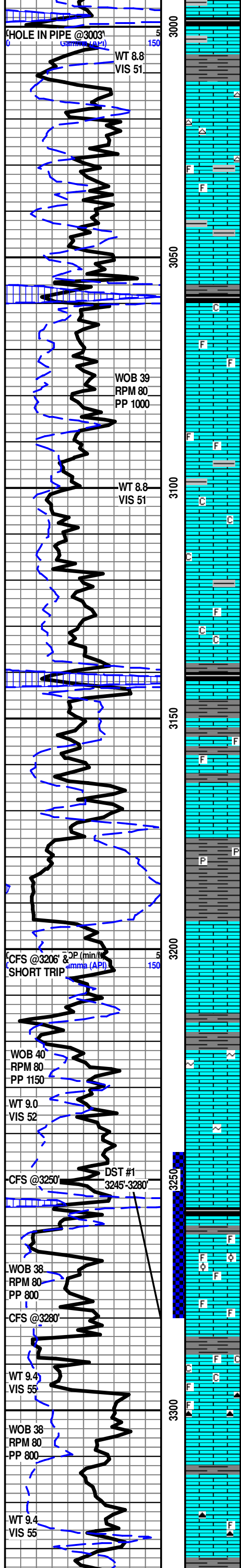
LS- LT GRY OFF WHT TO CRM IP, HD DNSE, FN-XLN SLI RE-XLN MTRX, WHT CHRT IN TRAY, TRS IMBD CALC XLS IP, TRS IMBD PYR IP, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

LS- OFF WHT CRM TO MOTTED LT GRY IP, HD DNSE TO BRITT IP, FN-XLN TO MD-FN-XLN SLI RE-XLN, SUB-CHLKY IP, TRS IMBD LT GRY GRY SH IP, NO VIS FLO, NO VIS CUT OR SHOW

WOB 39  
RPM 80  
PP 1000

WT 9.7  
VIS 28

WOB 38  
RPM 85  
PP 700



SH- BLK SFT CARB

**LE COMPTON 3013' -1093'**

LS- OFF WHT WHT, HD DNSE, FN-XLN TO V/FN-XLN IP, IMBD CALC XLS IP, SCATT WHT CHRT IN TRAY, DLL YEL FLO, NO VIS POR, NO VIS CUT OR SHOW

LS- OFF WHT WHT TO MOTTED LT GRY IP, HD DNSE TO BRITT IP, FN-XLN TO MD-FN-XLN IP, SLI RE-XLN MTRX, IMBD GRY SH IP, TRS IMBD FOSS FRGS IP, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

LS- OFF WHT TO CRM, HD DNSE, V/FN-XLN TO FN-XLN SLI RE-XLN MTRX, SCATT TRS IMBD FOSS FRGS, TRS IMBD WHT CHLK IP, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

LS- OFF WHT CRM TO MOTTED GRY, HD DNSE TO BRITT, FN-XLN TO FN-MD-XLN IP, SUB-CHLKY MTRX IP, IMBD FOSS FRGS IP, IMBD GRY SH IP NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

LS- OFF WHT CRM TO LT TN IP, HD DNSE TO BRITT IP, MD-XLN SUB-CHLKY IP, TRS IMBD WHT CHLK, TRS IMBD FOSS FRGS IP, DLL YELL FLO, NO VIS POR, NO VIS CUT OR SHOW

**HEEBNER 3139' -1219'**

SH- GRY TO MD GRY, FRM TO SFT BRITT, BLKY SLI SPLNTY IP

LS- WHT OFF WHT TO CRM BFF, HD DNSE TO BRITT IP, FN-XLN RE-XLN MTRX IP, IMBD FOSS FRGS IP, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

**DOUGLAS 3182' -1262'**

SH- GRY TO DRK GRY, SFT BRITT, SPLNTY TO SMTH BLKY, IMBD PYR IP

**LANSING 3195' -1275'**

LS- OFF WHT CRM TO LT TN IP (W/ TN OIL STAIN ON 5%), FN-XLN TO MD-FN-XLN RE-XLN MTRX IP, TRS IMBD FOSS FRGS IP, BRIT YEL GLD FLO ON 15%, TRS SMILL VUG POR, PR FLUSH CUT GD SLW STRM CUT IN 20%

**LANSING "C" 3221' -1301'**

LS- OFF WHT WHT (SLI TRS TN OIL STAIN ON 5%), HD DNSE, FN-XLN SLI RE-XLN MTRX, SCATT IMBD GLAUC IP, SCATT IMBD CALC XLS IP, DLL YEL FLO, SLI TRS VUG POR, NO VIS CUT OR SHOW

LS- WHT, HD DNSE, FN-XLN TO V/ FN-XLN RE-XLN MTRX IP, TRS IMBD GLAUC IP, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

**LANSING "F" 3261' -1341'**

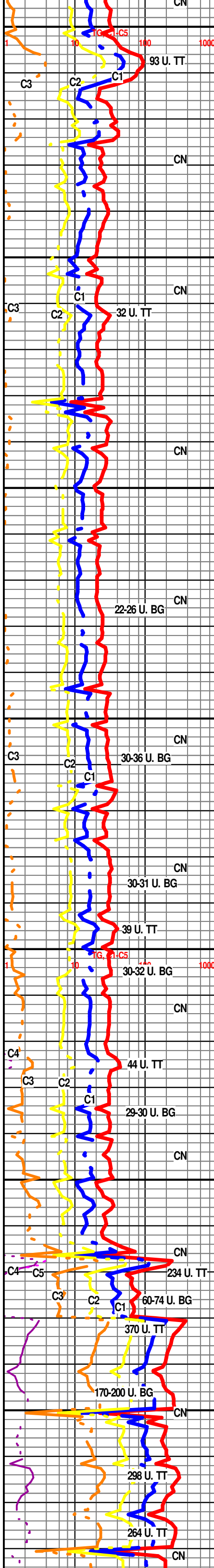
LS- OFF WHT CRM TO TN LT TN IP (W/ TN TO LT TN OIL STAIN ON 60%), HD DNSE TO BRIT, MD-XLN SLI RE-XLN IP SUB-SUCRO MTRX IP, ABDT IMBD FOSS FRGS THRU, SCATT IMBD SMML OOL, SCATT IMBD CALC XLS IP, BRIT YEL GLD FLO IN 60% DLL YEL GLD FLO IN 30%, INTER FOSS POR THRU IP (W/ LIVE TN OIL) TO SLI INTER OOL POR IP, GD FLUSH CUT IN 70% GD TO V/ GD SLW STRM CUT IN 44% PR SLW STRM CUT IN 15%, GD OIL ODOR, FREE FLOATING OIL IN SAMPLE WATER, LT TN LEECH ON DISH

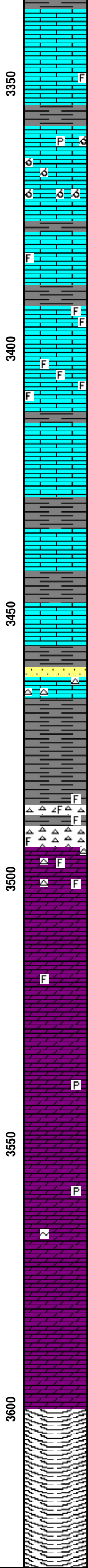
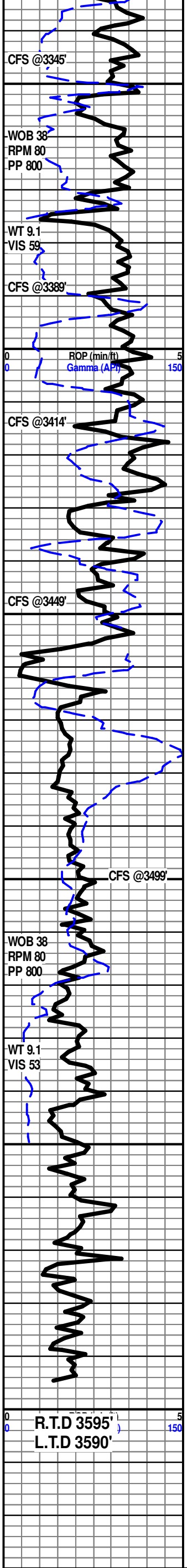
LS- OFF WHT WHT CRM, HD DNSE TO BRITT IP, MD-XLN SUB-CHLKY MTRX THRU IP, ABDT SFT GMMY CHLK IN TRAY IP, ABDT IMBD FOSS FRGS IP, DLL YEL FLO, NO VIS POR, NO VIS CUT OR SHOW

LS- OFF WHT CRM TO LT TN, HD DNSE, FN-XLN TO FN-MD-XLN, LT TN TN CHRT IN TRAY, DLL YEL FLO, NO VIS POR, NO VIS CUT OR SHOW

LS- OFF WHT TO LT GRY, HD DNSE, IMBD CALC XLS IP, TRS IMBD FOSS FRGS IP, BLK CHRT IN TRAY, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

**LANSING "H" 3336' -1416'**





LS- CRM TO LT TN, HD DNSE, MD-FN-XLN RE-XLN MTRX IP, IMBD CALC XLS IP, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

LS- OFF WHT CRM, HD DNSE, FN-XLN, SLI RE-XLN IP, TRS IMBD FOSS FRGS IP, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

3370'-3373' LS- CRM OFF WHT TO TN (W/ TN OIL STAIN ON 30%), HD TO BRITT IP, MD-XLN, SUCRO IP, ABDT IMBD OOLMLDS THRU, TRS IMBD PYR IP, BRIT YEL GLD FLO IN 30% DLL YEL GLD FLO IN 40%, OOLMLD POR IN 20% TO VUG PO IN 5%, PR TO GD FLUSH CUT, GD SLW STRM CUT IN 40%, GD OIL ODOR IN SAMPLE

LS- WHT CRM TO LT TN, HD DNSE, FN-XLN, TRS IMBD FOSS FRGS IP NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

3394'-3397' LS- OFF WHT WHT TO LT TN IP (W/ LT TN TO DRK TN OIL STAIN ON 20%), HD BRITT, MD-FN-XLN, IMBD LG FOSS FRGS IP, BRIT YEL GLD FLO IN 45%, TRS MICRO PP POR, PR FLUSH CUT, GD SLW STRM CUT IN 5%, SAMPLES GROUND UP

3406'-3408' LS- OFF WHT WHT TO TN (W/ LT TN TO TN OIL STAIN ON 30%), HD DNSE TO BRITT IP, MD-FN-XLN TO FN-XLN, SLI RE-XLN MTRX, SUCRO MTRX IP, IMBD SMLL FOSS FRGS THRU IP, SCATT IMBD CALC XLS IP, BRIT YEL GLD FLO IN 60%, TRS MICRO PP POR SCATT SMLL VUG POR IP, PR FLUSH CUT, GD TO EXCEL SLW STRM CUT IN 20%, GD OIL ODOR

SH- GRY MOTTED RED TO RED, SFT BRITT TO SLI GMMY IP, BLKY

**BKC 3435' -1515'**

LS- OFF WHT WHT, HD DNSE, FN-XLN TO V/FN-XLN, SLI SUB-SUCRO IP, IMBD CALC XLS IP, DLL YEL FLO, NO VIS POR, NO VIS CUT OR SHOW

3460'-3462' SS- OFF WHT CLR FRSTY TO RED LT GRY (W/ DOS ON 30% & DRK TN OIL STAIN ON 10%), FRI TO V/ FRI IP, TRS CLR QRTZN GRNS IN TRAY, SUB-RND TO SLI SUB-ANG, CALC CMNT, TRS IMBD SFT WHT CHLK, TRS LT GRY SH LMND IP, BRIT YEL GLD FLO IN 10%, SCATT INTER XLN POR IP, NO FLUSH CUT, GD SLW STRM CUT IN 10%

3464'-3467' LS- OFF WHT WHT TO RED (W/ DOS ON 40% DRK TN OIL STAIN ON 5%), HD DNSE, FN-XLN TO MD-FN-XLN, WHT CHRT IN TRAY/ DOS ON 20%, SCATT CLR QRTZN GRNS IN TRAY, TRS OOLMLDS IP, TRS IMBD SFT WHT CHLK IP, BRIT YEL GLD FLO IN 5%, TRS INTER XLN POR IP, GD FLUSH CUT, GD SLW STRM CUT IN 30%, LT BRWN LEECH ON DISH

SH- RED, FRM TO SFT GMMY, BLKY

CHRT- CLR TO OFF WHT TN TO ONRG (W/ SCATT DOS ON 15%), V/ HD DNSE, V/FN-XLN TO FN-XLN, TRS IMBD FOSS FRGS THRU IP, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

**ARBUCKLE 3495' -1575'**

DOL- WHT TO OFF WHT, V/ HD DNSE, V/ FN-XLN, CRS SUCRO IP, ABDT IMBD SMLL FOSS FRGS THRU IP, WHT CHRT IN TRAY W/ IMBD FOSS FRGS THRU, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

DOL- WHT OFF WHT, V/ HD DNSE, CRS SUCRO THRU, IMBD SMLL FOSS FRGS THRU IP, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

DOL- WHT, HD DNSE, FN-XLN TO CRS SUCRO THRU IP, TRS IMBD PYR IP, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

DOL- WHT TO LT GRY IP, HD DNSE, FN-XLN TO CRS SUCRO THRU IP, TRS IMBD GLAUC IP, PYR IN TRAY, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

R.T.D 3595' @6 A.M 09/03/13  
CTCH FOR LOGS

