



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1120758  
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: \_\_\_\_\_



1120758

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> _____ <i>(Submit ACO-4)</i>	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	FREITAG-SCHUMACHER ET AL 1-7
Doc ID	1120758

All Electric Logs Run

INDUCTION
MICRO
NEUTRON-DENSITY
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

March 01, 2013

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

Re: ACO1  
API 15-051-26420-00-00  
FREITAG-SCHUMACHER ET AL 1-7  
NE/4 Sec.07-15S-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.

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: 11/15/2012  
 Invoice # 6173

P.O.#:

Due Date: 12/15/2012

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:**

**FREITAG-SCHURMACHER ET-AL 1-7**

**Description of Work:**

CONDUCTOR SURFACE

DRLG    COMP    W/O    LOE    GG

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

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 991.39	No				
Common-Class A	90	\$ 1,225.34	Yes				
Bulk Truck Mat-Material Service Charge	95	\$ 206.29	No				
Pump Truck Mileage-Job to Nearest Camp	19	\$ 205.87	No				
Calcium Chloride	3	\$ 155.24	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	19	\$ 120.47	No				
Premium Gel (Bentonite)	2	\$ 35.35	Yes				

**Invoice Terms:**

Net 30

	SubTotal:	\$	2,939.94
	Discount Available <u>ONLY</u> if Invoice is Paid & Received within listed terms of invoice:	\$	(440.99)
<hr/>			
	SubTotal for Taxable Items:	\$	1,203.53
	SubTotal for Non-Taxable Items:	\$	1,295.41
<hr/>			
	Total:	\$	2,498.95
	Tax:	\$	75.82
<hr/>			
	<b>Amount Due:</b>	<b>\$</b>	<b>2,574.77</b>
	<b>Applied Payments:</b>		
	<b>Balance Due:</b>	<b>\$</b>	<b>2,574.77</b>

6.30% Ellis County Sales Tax

**Thank You For Your Business!**

Past Due Invoices are subject to a service charge (annual rate of 24%)  
 This does not include any applicable taxes unless it is listed.  
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# 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. 6173

Date	Sec.	Twp.	Range	County	State	On Location	Finish
11-11-12	7	15	16	ELLIS	KANSAS		2:00 PM
Lease FETTAG-SCHUMACHER ET AL				Well No. #1-7		Location VICTORIA ST. GRANT'S VTLA-E 3/4 - S/JINTO	
Contractor VAL #6				Owner SAM GARY JR		To Quality Oilwell Cementing, Inc.	
Type Job CONDUCTOR				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 17 1/2"		T.D. 94'		Charge To SAM GARY JR.			
Csg. 13 3/8		Depth 93.88"		Street 1515 WYNKOOP - STE 400			
Tbg. Size		Depth		City DENVER		State CO, 80202	
Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.			
Cement Left in Csg.		Shoe Joint 15'		Cement Amount Ordered 90 com - 3% - 2%			
Meas Line		Displace 15 1/2 BBLs					
<b>EQUIPMENT</b>				Common 90			
Pumptrk #15	No.	Cementer		Poz. Mix			
		Helper NICK					
Bulktrk #1	No.	Driver		Gel. 2			
		Driver LOWATE M.					
Bulktrk #14	No.	Driver		Calcium 3			
		Driver CISCO					
<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			
				Handling 95			
CEMENT DID NOT CIRCULATE!				Mileage			
				<b>FLOAT EQUIPMENT</b>			
				Guide Shoe			
				Centralizer			
				Baskets			
				AFU Inserts			
				Float Shoe			
				Latch Down			
				Pumptrk Charge Conductor Surface			
				Mileage 19			
THANK YOU!							
Signature Randy D. M... (handwritten)				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: 11/15/2012  
 Invoice # 6175  
 P.O.#:  
 Due Date: 12/15/2012  
 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:**  
 FREITAG-SCHURMACHER ET-AL 1-7

**Description of Work:**  
 LONG SURFACE JOB

DRLG  COMP  W/O  LOE  GG

Account	8200.138
Well/Prospect	
Deck	
AFE	
Approval	
Description	

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 963.85	No				
Common-Class A	350	\$ 4,632.83	Yes				
Bulk Truck Mat-Material Service Charge	370	\$ 781.11	No				
8 5/8" Basket	2	\$ 667.11	Yes				
Calcium Chloride	13	\$ 654.00	Yes				
Pump Truck Mileage-Job to Nearest Camp	19	\$ 200.15	No				
8 5/8" Centralizer	2	\$ 135.11	Yes				
Premium Gel (Bentonite)	7	\$ 120.29	Yes				
8 5/8" Top Rubber Plug	1	\$ 111.89	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	19	\$ 117.12	No				
Baffle Plate Aluminum, 8 5/8"	1	\$ 95.00	Yes				

**Invoice Terms:**

Net 30

SubTotal: \$ 8,478.48  
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (1,271.77)

SubTotal for Taxable Items:	\$ 5,453.80
SubTotal for Non-Taxable Items:	\$ 1,752.90

6.30% Ellis County Sales Tax

Total: \$ 7,206.71  
 Tax: \$ 343.59  
**Amount Due: \$ 7,550.30**  
**Applied Payments:**  
**Balance Due: \$ 7,550.30**

**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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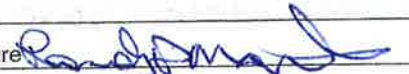
# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 6175

Date	Sec.	Twp.	Range	County	State	On Location	Finish
11-12-12	7	15	16	ELLIS	KANSAS		3:15 PM
Lease <del>FREITAG-SCHUMACHER</del> ETAL				Well No. #1-7		Location VICTORIA STO GRANTSVILLE - 3/4 E - 5/INTO	
Contractor VAL #10				Owner SAM GARY JR.			
Type Job L. SURFACE				To Quality Oilwell Cementing, Inc.			
Hole Size 12 1/4"				You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Csg. 8 5/8"		T.D. 855'		Charge To SAM GARY JR & ASSOC			
		Depth 855'		Street 1515 WYNKOOP. STE 700			
Tbg. Size		Depth		City DENVER		State KS, 80202	
Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.			
Cement Left in Csg.		Shoe Joint 42.15		Cement Amount Ordered 350 ssm - 3cc - 2gsl			
Meas Line		Displace 51 1/2 bbls					
<b>EQUIPMENT</b>				Common 350			
Pumptrk #14	No.	Cementer Helper NICK		Poz. Mix			
Bulktrk #13	No.	Driver HEATH		Gel. 7			
Bulktrk PLU	No.	Driver BILLY		Calcium 13			
		Driver CISCO		Hulls			
<b>JOB SERVICES &amp; REMARKS</b>				Salt			
Remarks: Freitag - Schumacher 1-7				Flowseal			
Rat Hole				Kol-Seal			
Mouse Hole				Mud CLR 48			
Centralizers				CFL-117 or CD110 CAF 38			
Baskets				Sand			
D/V or Port Collar				Handling			
CEMENT DID CIRCULATE!				Mileage			
				<b>FLOAT EQUIPMENT</b>			
				Guide Shoe			
				Centralizer 2			
				Baskets 2			
				AFU Inserts			
				Float Shoe			
				Latch Down			
				8 3/8 Rubber plug			
				Pumptrk Charge Long Surface			
				Mileage 19			
THANK YOU!							
Signature 				Tax			
				Discount			
				Total Charge			





# QUALITY OILWELL CEMENTING, INC.

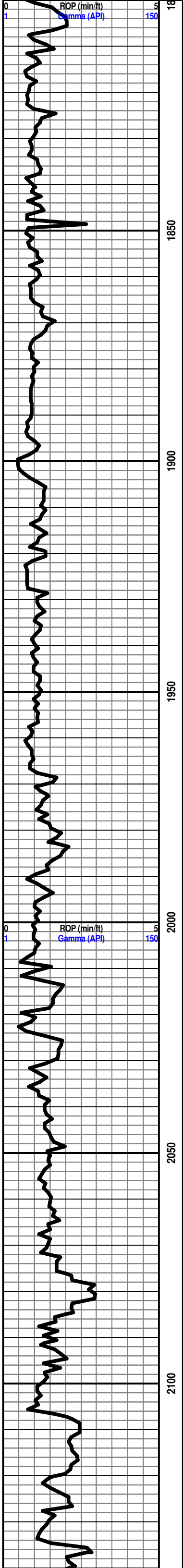
Federal Tax I.D.# 20-2886107

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

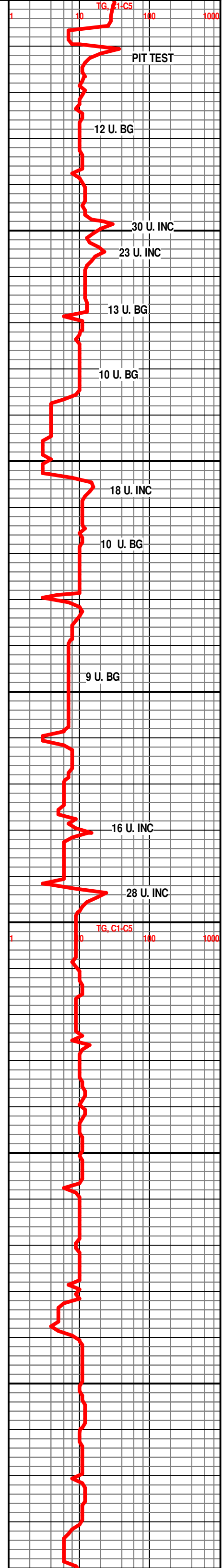
Home Office P.O. Box 32 Russell, KS 67665

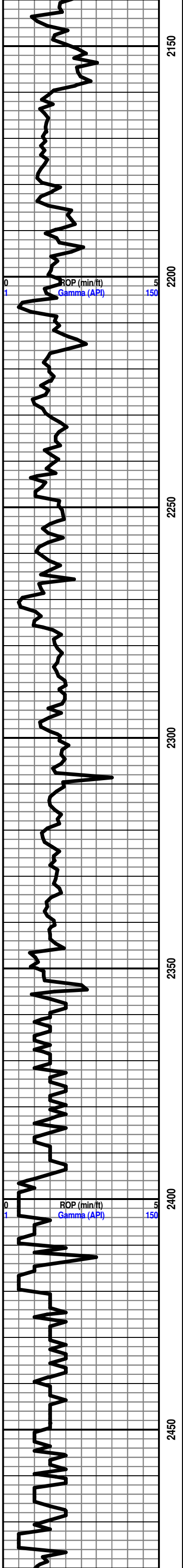
No. 6206

Date	11-17-12	Sec.	7	Twp.	15	Range	16	County	Ellis	State	KS	On Location		Finish	3:30 AM
Lease								Location				Freitag Schomacker ETAL Victoria S Grants Villa @ 1E Sinto			
Contractor								Well No.				Owner			
Type Job								Charge To				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								T.D.				Sam Gary Jr & Assoc.			
Csg.								Depth				Street			
Tbg. Size								Depth				City State			
Tool								Depth				The above was done to satisfaction and supervision of owner agent or contractor.			
Cement Left in Csg.								Shoe Joint				Cement Amount Ordered 190 40/40 40/40 1/4" 1/4" 1/4"			
Meas Line								Displace							
EQUIPMENT								Common				114			
Pumptrk 9 No. Cementer								Poz. Mix				76			
Bulktrk No. Driver								Gel.				7			
Bulktrk 14 No. Driver								Calcium							
JOB SERVICES & REMARKS								Hulls							
Remarks:								Salt							
Rat Hole 30SK								Flowseal				50ft			
Mouse Hole 15SK								Kol-Seal							
Centralizers								Mud CLR 48							
Baskets								CFL-117 or CD110 CAF 38							
D/V or Port Collar								Sand							
1st 3405 255K								Handling				197			
2nd 1033 255K								Mileage							
3rd 371 855K								FLOAT EQUIPMENT							
4th 40' 105K								Guide Shoe							
								Centralizer				8 5/8 wooden Plug			
								Baskets							
								AFU Inserts							
								Float Shoe							
								Latch Down							
								Pumptrk Charge				plug			
								Mileage				14			
								Tax							
								Discount							
								Total Charge							
Signature								Randy D Marks							

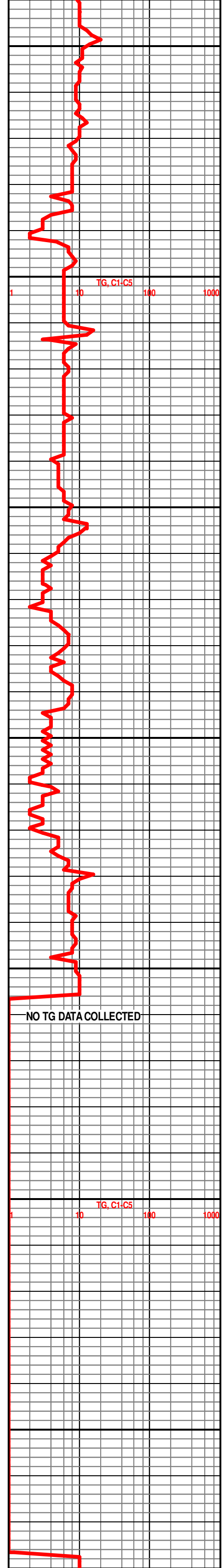


START UNMANNED UNIT 11/14/12

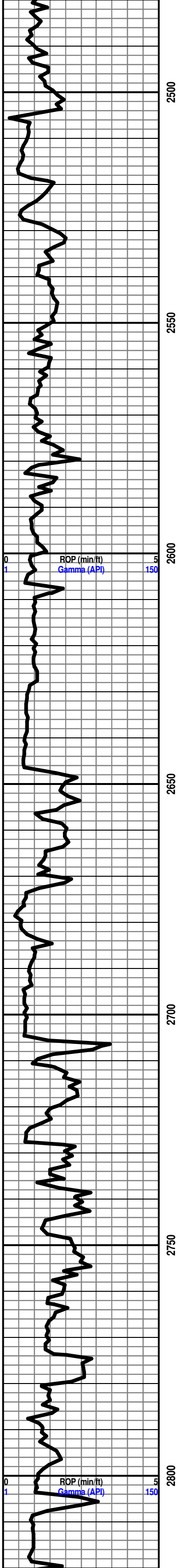




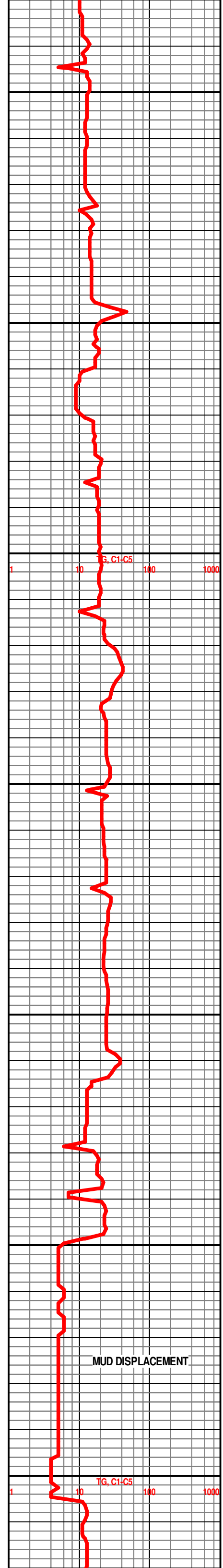
DRILL TIME COME OFF CHART DUE TO FOOTMARKER SWITCH

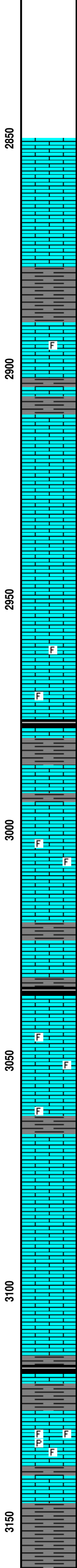
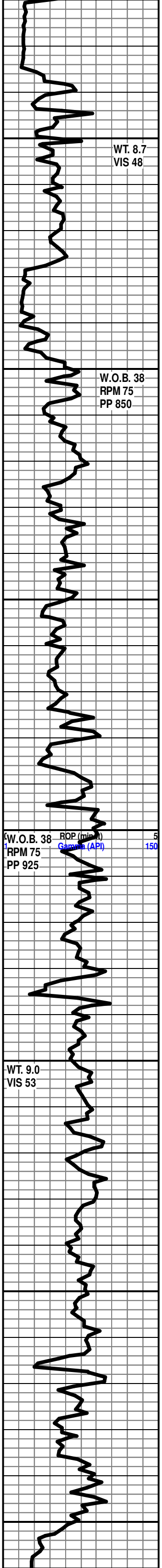


NO TG DATA COLLECTED



BRS 2646'-765'





**HOWARD 2835'-954'**  
**START 24HR. MANNED UNIT 11/14/12**  
 LS- CRM TO LT TN, HD DNS TO BRIT, MD-XLN, RE-XLN, S-SUCRO IP, SCAT IMB SM CALC-XLS, V DUL YEL FLO IP, NO VIS POR, NO VIS SHOW

**SEVERY 2877'-996'**  
 SH- LT GY TO GY, V SFT TO GMMY IP, BLCKY SMTH TXT

**TOPEKA 2891'-1010'**  
 LS- CRM TO LT TN, HD DNS TO BRIT IP, MD/F-XLN MTRX, S-SUCRO, SLI TR S-CHLKY IP, IMB GY SH IP, TR IMB FOSS FRAGS, NO VIS FLO, V PR TO TR PR MICRO PP POR IN 1-2%, TR V PR MICRO VUG POR SCAT IP, NO VIS CUT OR SHOW

LS- LT TN TO TN LT GY IP, HD DNS TO BRIT IP, MD/F-VF-XLN MTRX, S-SUCRO IP, SCAT IMB CALC-XLS, SPTTD YEL FLO IN 10%, NO VIS POR, NO VIS CUT OR SHOW

LS- LT TN TO TN, HD DNS TO TR BRIT IP, F/VF-XLN MTRX, S-CHLKY, ABTD SFT WHT CHLK IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- LT TN TO TN, HD DNS TO BRIT, MD/F-XLN, S-SUCRO, IMB SM CALC-XLS THRU, SCAT IMB FOSS FRAGS IP, DUL YEL GLD FLO IP, NO VIS POR, NO VIS CUT OR SHOW

SH- BLCK SFT CARB, W/ GY TO DK GY, FRM TO SFT, SPLNTY

**LE COMPTON 2995'-1114'**  
 LS- CRM TO LT TN, HD DNS TO BRIT IP, MD-XLN, RE-XLN IP, S-CHLKY, ABTD IMB CALC-XLS, SCAT IMB FOSS FRAGS IP, TR SFT WHT CHLK IN TRAY, V DUL YEL FLO IN 10%, NO VIS POR, NO VIS CUT OR SHOW

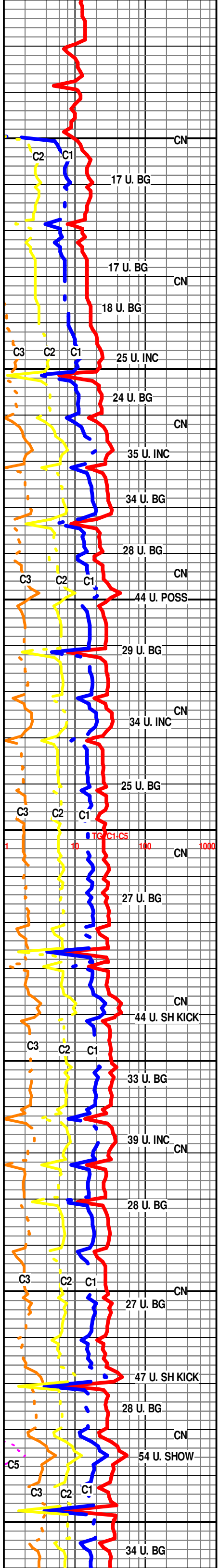
SH- BLCK SFT CARB  
 LS- CRM TO LT TN IP, HD DNS TO TR BRIT IP, MD/F-XLN MTRX, SLI TR S-SUCRO, IMB FOSS FRAGS IP, DUL YEL FLO IN 20%, NO VIS POR, NO VIS CUT OR SHOW

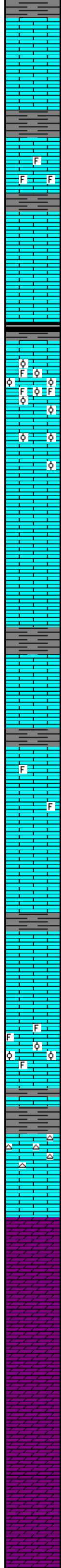
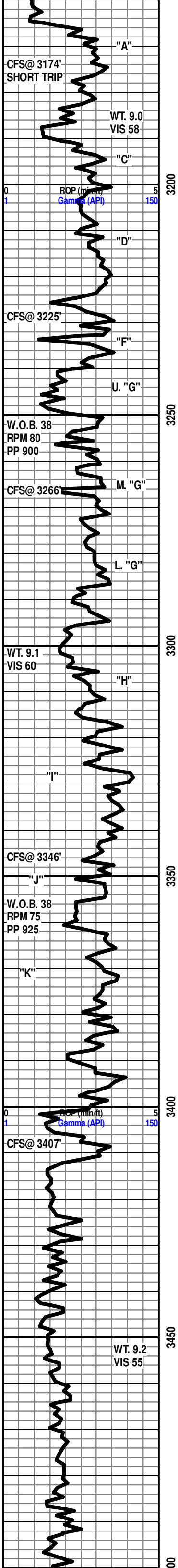
LS- OFF WHT TO CRM LT TN, HD DNS TO BRIT IP, MD/F-XLN MTRX, S-SUCRO IP, SCAT IMB SM CALC-XLS THRU, SLI TR SFT WHT CHLK IN TRAY, V DUL YEL FLO IN 10%, NO VIS POR, NO VIS CUT OR SHOW

LS- OFF WHT TO CRM, HD DNS TO BRIT IP, F-XLN MTRX, S-CHLKY, SCAT SFT WHT CHLK IN TRAY, TR IMB SM CALC-XLS IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

**HEEBNER 3112'-1231'**  
 SH- BLCK SFT CARB  
 3132'-3135' LS- OFF WHT TO CRM LT TN (W/ TN TO DK TN OIL STN IN 40%), HD DNS TO BRIT IP, MD/F-XLN MTRX, RE-XLN IP, S-CHLKY, IMB FOSS FRAGS, IMB DISS PYR IP, TR SCAT PYR IN TRAY, TR SPTTD BRIT YEL GLD FLO IP, V PR TO PR MICRO VUG POR IN 1%, TR V PR VUG POR IP, FR TO GD FLSH CUT IN 60%, GD SLW STRM CUT IN 70%, TN LCH ON DSH, FR OIL ODOR

**DOUGLAS 3146'-1265'**  
 SH- LT GY TO LT GRN, SFT TO GMMY, BLCK SMTH TXT





3166'-3168' LS- CRM TO LT TN, (W/ TN OIL STN IN 30%), HD DNS TO TR BRIT IP, MD/F-XLN, S-CHLKY, S-SUCRO IP, ABDT IMB SM CALC-XLS THRU, SLI TR SFT WHT CHLK IN TRAY, DUL YEL GLD FLO IN 50%, YEL GLD FLO IN 10%, FR TO TR GD VUG POR IN 1%, PR TO FR INTER-XLN POR IP, PR FLSH CUT IN 30%, PR SLW STRM CUT IN 30%, LT TN LCH ON DSH, PR TO FR OIL ODOR

**LANSING "C" 3190'-1309'**

LS- LT TN TO TN, HD DNS TO TR BRIT IP, F-XLN MTRX, RE-XLN IP, V S-CHLKY, ABDT SFT WHT CHLK IN TRAY, SCAT IMB FOSS FRAGS, TR FREE FOSSIL IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- OFF WHT TO CRM LT TN IP, V HD DNS TO SLI TR BRIT, F/VF-XLN MTRX, S-CHLKY, ABDT SFT WHT CHLK THRU TRAY, V DUL YEL FLO IN 20%, NO VIS POR, NO VIS CUT OR CHOW

LS- OFF WHT TO CRM, HD DNS TO BRIT, MD/F-XLN, V S-CHLKY, SCAT SFT WHT CHLK IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

**LANSING "F" 3234'-1355'**

3241'-3246' LS- OFF WHT TO WHT (LT TN TO TN OIL STN SCAT IN 20-25% & DK TN OIL STN IP), MD-XLN, RE-XLN MTRX, S-CHLKY, S-SUCRO IP, ABDT IMB SM OOLITES THRU, SCAT IMB FOSS FRAGS IP, IMB SFT WHT CHLK THRU, V-OOLITIC, DUL YEL GLD FLO IN 60%, SPTTD BRT YEL GLD FLO IN 10%, PR TO FR TO TR GD INTER-OOL POR IN 6%, PR TO TR FR FLSH CUT IN 40%, FR SLW STRM CUT IN 40%, LT TN LCH ON DSH, FR OIL ODOR

LS- OFF WHT TO CRM, HD DNS TO TR BRIT IP, MD/F-XLN MTRX, RE-XLN IP, S-CHLKY, IMB SM OOLITES, V DUL YEL FLO IN 10%, NO VIS POR, NO VIS CUT OR SHOW

LS- CRM TO LT TN, V HD DNS TO SLI TR BRIT IP, F/VF-XLN MTRX, CRYPTO-XLN IP, IMB SM CALC-XLS ON ONE FACES, TR SFT WHT CHLK IN TRAY, V DUL YEL FLO IN 30%, SPTTD YEL FLO IP, NO VIS POR, NO VIS CUT OR SHOW

**LANSING "H" 3301'-1420'**

LS- OFF TO CRM TO LT TN IP, V HD DNS TO TR BRIT IP, F/VF-XLN MTRX, RE-XLN IP, SLI TR S-CHLKY, TR SFT WHT CHLK IN TRAY, V DUL YEL FLO IN 10%, NO VIS POR, NO VIS CUT OF SHOW

LS- CRM TO LT TN, V HD DNS TO SLI TR BRIT IP, F/VF-XLN MTRX, SCAT IMB SM CALC-XLS THRU, SLI TR IMB FOSS FRAGS IP, DUL YEL FLO IN 40%, YEL FLO IN 10%, NO VIS POR, NO VIS CUT OR SHOW

3349'-3351' LS- OFF WHT TO CRM (W/ TN OIL STN IN 20-25%), V HD DNS TO TR BRIT IP, F/VF-XLN MTRX, S-CHLKY, TR S-SUCRO IP, SCAT SFT WHT CHLK IN TRAY, YEL GLD FLO IN 50%, BRT YEL GLD FLO IN 15%, V PR TO PR TO TR FR VUG POR IN 2%, PR FLSH CUT IN 20%, PR TO FR SLW STRM CUT IN 40%, V LT TN LCH ON DSH, PR TO FR OIL ODOR

LS- OFF WHT TO CRM, V HD DNS, F/VF-XLN, CRYPTO-XLN IP, S-CHLKY IP, SCAT IMB SM CALC-XLS, NO VIS FLO, NO VIS SHOW

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

**BKC 3401'-1520'**

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

LS- OFF WHT TO CRM, HD DNS TO BRIT IP, F/VF-XLN MTRX, SCAT WHT & ORNG CHRT THRU, IMB SH IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

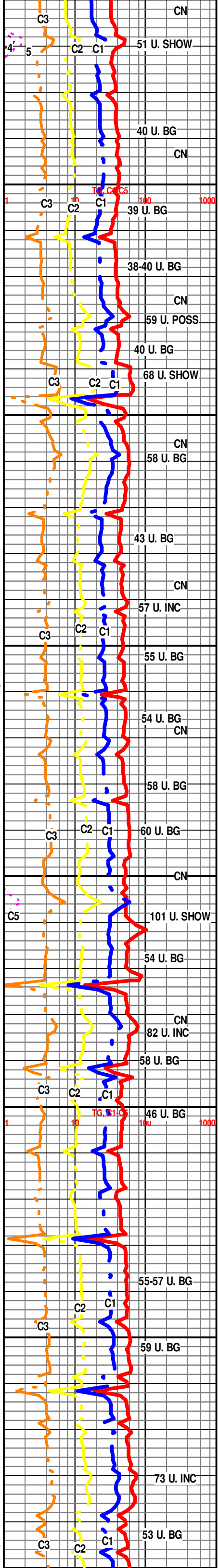
**ARBUCKLE 3424'-1543'**

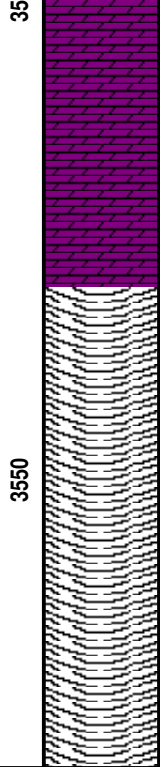
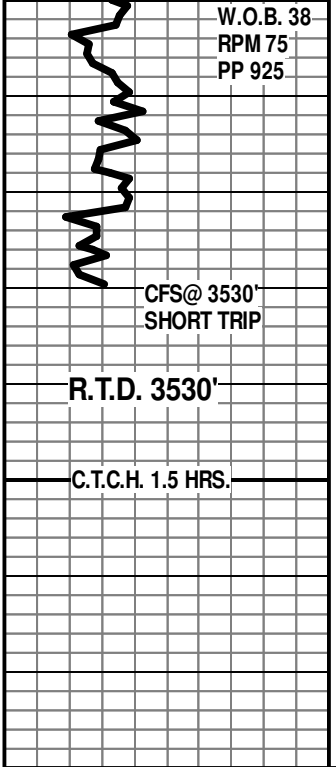
3425'-3428' DOLO- DK TN TO BRWN (W/ BRWN OIL STN IN 90%), HD DNS TO BRIT, MD-XLN, V TT SUCRO MTRX, ABDT IMB SM RND DOLO GRNS THRU, DUL YEL GLD FLO IN 90%, YEL GLD FLO IN 10%, SCAT PR TO TR FR INTER-GRN POR IN 4%, EXCEL FLSH CUT IN 90%, EXCEL SLW STRM CUT IN 100%, DK BRWN LCH ON DSH, GD STRNG OIL ODOR

3434'-3438' DOLO- OFF WHT TO BRWN (DUE TO OIL STN IN 80%), HD DNS TO BRIT IP, V RE-XLN MTRX, S-SUCRO IP, ABDT IMB SM TO MD S-ANG TO RND DOLO GRNS THRU, SCAT IMB LG S-ANG DOLO GRNS THRU, DUL YEL GLD FLO IN 70%, YEL GLD FLO IN 20%, SPTTD BRT YEL GLD FLO IN 10%, FR TO TR GD INTER-GRN POR IN 3-4%, GD FLSH CUT IN 70-75%, GD TO EXCEL SLW STRM CUT IN 80%, DK BROWN LCH ON DSH, GD STRNG OIL ODOR

3140'-3443' DOLO- OFF WHT TO CRM (W/ DK TN OIL STN IN 20-30%), HD DNS TO BRIT IP, MD-XLN, RE-XLN MTRX, SCAT IMB SM S-ANG TO RND DOLO GRNS THRU, TR IMB MD S-ANG DOLO GRNS IP, DUL YEL GLD FLO IN 50%, NO FLO IN 50%, PR TO TR INTER-GRN POR IN 1%, GD FLSH CUT IN 40%, GD TO EXCEL SLW STRM CUT IN 50%, TN TO DK TN LCH ON DSH, GD STRNG OIL ODOR

3445'-3448' DOLO- OFF WHT TO CRM (W/ BLCK TAR STAN IN 20%) (D.O.S. IN 30%), HD DNS TO TR BRIT IP, MD-XLN, RE-XLN MTRX, SCAT IMB SM TO MD S-RND DOLO GRNS THRU, V DUL YEL GLD FLO IN 10%, V PR INTER-GRN POR IN 1%, FR WK FLSH CUT IN 20%, FR SLW STRM CUT IN 30%, TN LCH ON DSH, FR TO GD OIL ODOR





R.T.D. @ 11:00 A.M. 11/16/12

DROP SURVEY

T.O.F.L. @ 2:15 P.M.

WEATHERFORD/ LIBERAL, KS

