



1104557

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
--	---

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
 Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
 Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR: _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	HERBERT KRAFT 1-35
Doc ID	1104557

All Electric Logs Run

DEN-NEUT
INDUCTION
MICRO
SONIC
SPECTRAL GR

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

December 12, 2012

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

Re: ACO1
API 15-167-23818-00-00
HERBERT KRAFT 1-35
SW/4 Sec.35-14S-15W
Russell County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
CHRISTOPHER MITCHELL



QUALITY OILWELL CEMENTING, INC.
 PO Box 32 - 740 West Wichita Ave, Russell KS 67665
 Phone: 785-324-1041 fax: 785-483-1087
 Email: cementing@ruraltel.net

Date: 8/27/2012
 Invoice # 726

P.O.#:
 Due Date: 9/26/2012
 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:
 HERBERT KRAFT 1-35

Description of Work:
 LONG SURFACE JOB

RECEIVED

SEP 07 2012

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

<input checked="" type="checkbox"/> DRLG	<input type="checkbox"/> COMP	<input type="checkbox"/> W/O	<input type="checkbox"/> LOE	<input type="checkbox"/> GG
Account	8200.138			
Well/Prospect				
Deck				
AFE				
Approval	RB			
Description				

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 991.39	No				
Common-Class A	325	\$ 4,304.86	Yes				
Bulk Truck Matl-Material Service Charge	343	\$ 744.80	No				
8 5/8" Basket	2	\$ 686.17	Yes				
Calcium Chloride	12	\$ 620.94	Yes				
8 5/8" Centralizer	2	\$ 138.97	Yes				
8 5/8" Top Rubber Plug	1	\$ 115.09	Yes				
Pump Truck Mileage-Job to Nearest Camp	11	\$ 119.19	No				
Premium Gel (Bentonite)	6	\$ 106.05	Yes				
Baffle Plate Aluminum, 8 5/8"	1	\$ 97.71	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	11	\$ 69.75	No				

Invoice Terms:

Net 30

SubTotal: \$ 7,994.92
 Discount Available ONLY if Invoice is Paid & Received
 within listed terms of invoice: \$ (1,199.24)

SubTotal for Taxable Items: \$ 5,159.33

SubTotal for Non-Taxable Items: \$ 1,636.35

Total: \$ 6,795.68

Tax: \$ 428.22

Amount Due: \$ 7,223.90

Applied Payments:

Balance Due: \$ 7,223.90

8.30% Russell 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. 726

Date **8-24-12** Sec. **35** Twp. **14** Range **15** County **Russell** State **KS** On Location **11:30** Finish **11:30**

Lease Well No. **1-335** Location **Polina ADS to desc. 1 1/2 W V1070**

Contractor **W/ Rig 6** Owner
Type Job **Surface** To Quality Oilwell Cementing, Inc.
Hole Size **12 1/4** T.D. **738** 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** Depth **738.21** Charge To **Sam Gary Jr & Assoc.**
Tbg. Size Depth Street **Sam Gary Jr & Assoc.**
Tool Depth City State
Cement Left in Csg. **42.68** Shoe Joint **42.68** The above was done to satisfaction and supervision of owner agent or contractor.
Meas Line Displace **44.14** Cement Amount Ordered **325 396 9%**

EQUIPMENT

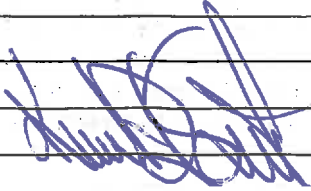
Pumptrk 16	No.	Cementer Mark	Helper	Common 325
Bulktrk 4	No.	Driver Travis	Driver	Poz. Mix
Bulktrk	No.	Driver Dugg	Driver	Gel. 6
JOB SERVICES & REMARKS				Calcium 12

Remarks: Hulls
Rat Hole Salt
Mouse Hole Flowseal
Centralizers **Sint #1 #11** Kol-Seal
Baskets **#2 #12** Mud CLR 48
D/V or Port Collar CFL-117 or CD110 CAF 38
Sand
Cement did Circulate Handling **343**
Mileage

FLOAT EQUIPMENT

Lease **HERBERT Kraft**
Guide Shoe
Centralizer **2 8 5/8**
Baskets **2 8 5/8**
AFU Inserts
Float Shoe
Field Name **Wild cat** Latch Down
Baffle plate
Rubber plug
Pumptrk Charge **Long Surface**
Mileage **11**

Tax
Discount
Total Charge

X Signature 

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. 728

Date	8-29-12	Sec.	35	Twp.	14	Range	15	County	Russell	State	KS	On Location		Finish	2:30 PM
Lease	Herbert Kraft		Well No.	1-35		Location									
Contractor										Owner					
Type Job										To Quality Oilwell Cementing, Inc.					
Hole Size										You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.					
Csg.										Charge To					
Tbg. Size										Street					
Tool										City State					
Cement Left in Csg.										The above was done to satisfaction and supervision of owner agent or contractor.					
Meas Line										Cement Amount Ordered					
EQUIPMENT															
Pumptrk	16	No.	Cementer	Matt		Common									
			Helper	Chris		126									
Bulktrk	14	No.	Driver	Travis		Poz. Mix									
			Driver	Cody		784									
Bulktrk		No.	Driver			Gel.									
			Driver			Calcium									
JOB SERVICES & REMARKS															
Remarks:										Hulls					
Rat Hole										Salt					
Mouse Hole										Flowseal					
Centralizers										50#					
Baskets										Kol-Seal					
D/V or Port Collar										Mid CLR 48					
										CFL-117 or CD110 CAF 38					
										Sand					
3270 25 545										Handling					
900 25 545										217					
775 25 545										Mileage					
360 80 545										FLOAT EQUIPMENT					
40 10 545										Guide Shoe					
										Centralizer					
										Baskets					
										AFU Inserts					
										Float Shoe					
										Latch Down					
										1 Dry Hole plug					
										Pumptrk Charge					
										11 plug					
										Mileage					
										11					
										Tax					
										Discount					
										Total Charge					
Signature															

X Signature *Randy D. M...*



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Samuel Gary Jr. and Associates, Inc.

35-14-15 Russell, Ks

1515 Wynkoop St. Ste 700
Denver, CO 80202

Herbert Kraft 1-35

Job Ticket: 49427

DST#: 1

ATTN: Chris Mitchell

Test Start: 2012.08.27 @ 13:23:13

GENERAL INFORMATION:

Formation: **LKC "A-D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:37:13

Time Test Ended: 20:09:43

Test Type: Conventional Bottom Hole (Initial)

Tester: Brian Fairbank

Unit No: 41

Interval: 3005.00 ft (KB) To 3083.00 ft (KB) (TVD)

Reference Elevations: 1827.00 ft (KB)

Total Depth: 3083.00 ft (KB) (TVD)

1817.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 6752 Inside

Press @ Run Depth: 57.25 psig @ 3075.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.27 End Date: 2012.08.27

Last Calib.: 2012.08.27

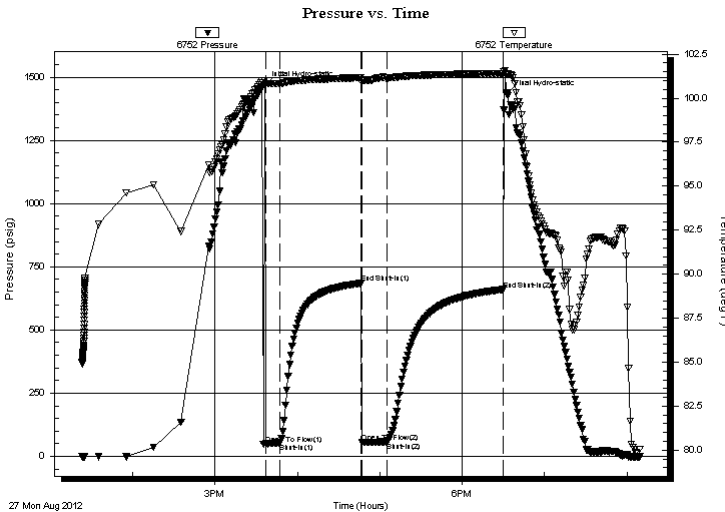
Start Time: 13:23:14 End Time: 20:09:43

Time On Btm: 2012.08.27 @ 15:36:13

Time Off Btm: 2012.08.27 @ 18:32:43

TEST COMMENT: 10 - IFP - sur blow throughout
60 - ISI - no blow back
20 - FFP - no blow
80 - FSI - no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1467.49	101.02	Initial Hydro-static
1	49.58	100.82	Open To Flow (1)
11	52.52	100.83	Shut-In(1)
70	684.26	101.17	End Shut-In(1)
71	54.12	100.88	Open To Flow (2)
89	57.25	101.14	Shut-In(2)
174	659.94	101.40	End Shut-In(2)
177	1432.47	101.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	DRL MUD 100%	0.21

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. and Associates, Inc.

35-14-15 Russell, Ks

1515 Wynkoop St. Ste 700
Denver, CO 80202

Herbert Kraft 1-35

Job Ticket: 49427

DST#: 1

ATTN: Chris Mitchell

Test Start: 2012.08.27 @ 13:23:13

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: 62.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.39 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2400.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	DRL MUD 100%	0.210

Total Length: 15.00 ft Total Volume: 0.210 bbl

Num Fluid Samples: 0

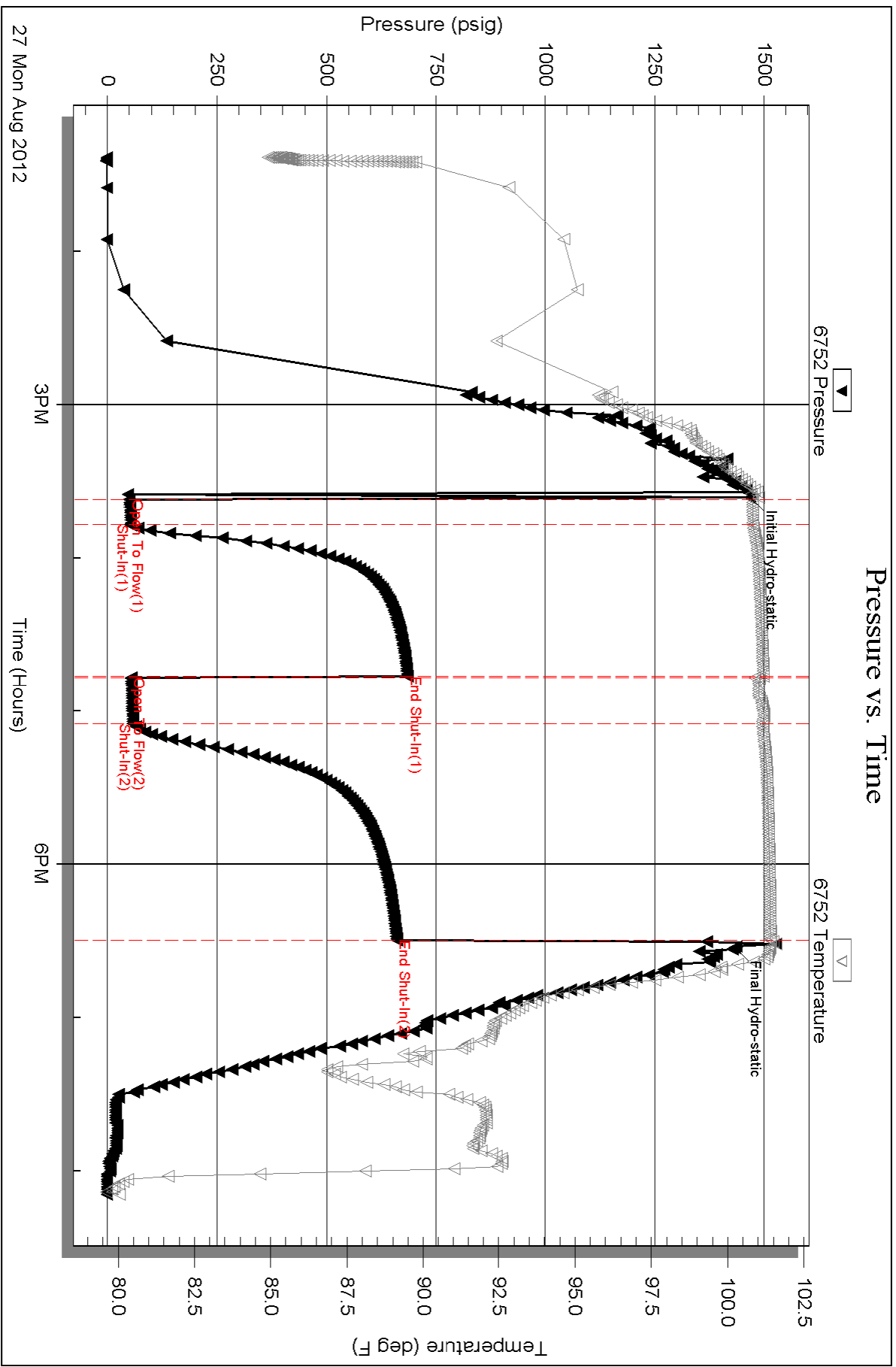
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: SAMPLER



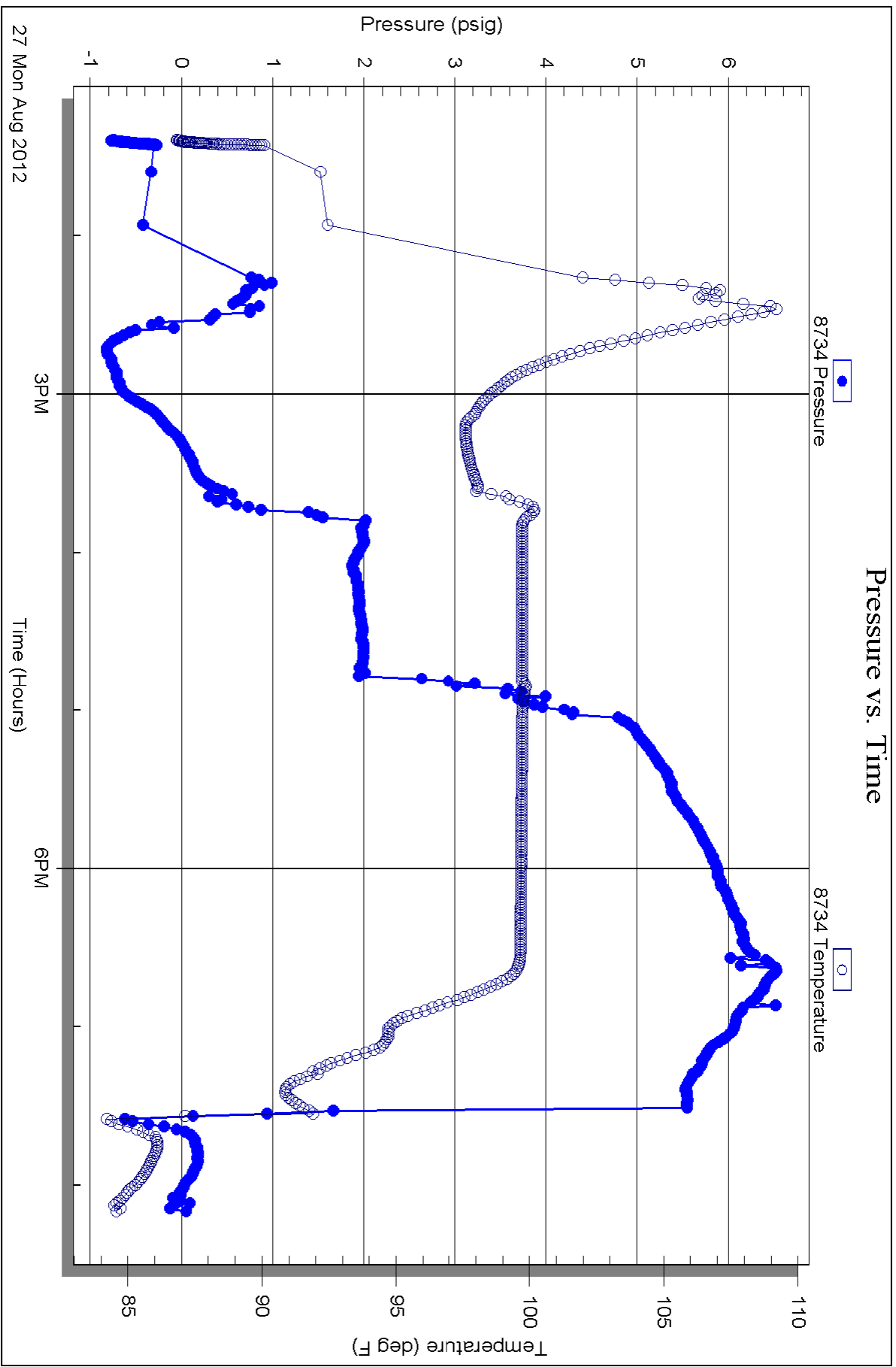
Serial #: 8734

Fluid

Samuel Gary Jr. and Associates, Inc.

Herbert Kraft 1-35

DST Test Number: 1



27 Mon Aug 2012

Triobite Testing, Inc

Ref. No: 49427

Printed: 2012.08.28 @ 07:28:18



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

Well Name: SGA HERBERT KRAFT 1-35
 Location: SEC. 35 14S-15W RUSSELL CO., KANSAS
 License Number: 15-167-23818-0000 Region: WILDCAT
 Spud Date: 8/23/12 Drilling Completed: 8/28/12
 Surface Coordinates: 2180 FSL/ 1730 FWL
 Bottom Hole Coordinates:
 Ground Elevation (ft): 1817' K.B. Elevation (ft): 1827'
 Logged Interval (ft): 2700' To: 3390' Total Depth (ft): 3390'
 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: Chris Mitchell

GEOLOGIST

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

DST's Report

DST# 1 3005'-3083' 10-60-20-80
 IF- SURF. BLW THRU, ISI- NO BLW BACK, FF- NO BLW, FSI- NO BLW BACK
 IH- 1467, FH- 1432/ IF- 50 TO 53, FF- 54 TO 57/ ISI- 684, FSI- 660
 REC. 15' OF TF/ 15' OF MUD 100% MUD/ BHT- 101, CHLOR.- 2400 PPM

ROCK TYPES

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

ACCESSORIES

MINERAL	Salt	Fossil	Clystn
Anhy	Sandy	Gastro	Dol
Arggrn	Silt	Oolite	Grysh
Arg	Sil	Ostra	Gryslt
Bent	Sulphur	Pelec	Lms
Bit	Tuff	Pellet	Sandylms
Brecfrag	Chlorite	Pisolite	Sh
Calc	Dol	Plant	Sltstn
Carb	Sand	Strom	
Chtdk	Sltly	Fuss	
Chtlt		Oomold	
Dol	FOSSIL	STRINGER	TEXTURE
Feldspar	Algae	Anhy	Boundst
Ferrpel	Amph	Arg	Chalky
Ferr	Belm	Bent	Cryxln
Glau	Bioclst	Coal	Earthy
Gyp	Brach	Dol	Finexln
Hvymin	Bryozoa	Gyp	Grainst
Kaol	Cephal	Ls	Lithogr
Marl	Coral	Mrst	Microxln
Minxl	Crin	Sltstrg	Mudst
Nodule	Echin	Ssstrg	Packst
Phos	Fish	Carbsh	Wackest
Pyr	Foram		

OTHER SYMBOLS

POROSITY TYPE

- E Earthy
- B Fenest
- F Fracture
- X Inter
- A Moldic
- O Organic
- P Pinpoint
- V Vuggy

SORTING

- W Well
- M Moderate
- P Poor

ROUNDING

- R Rounded
- S Subrnd
- a Subang

- A Angular

OIL SHOWS

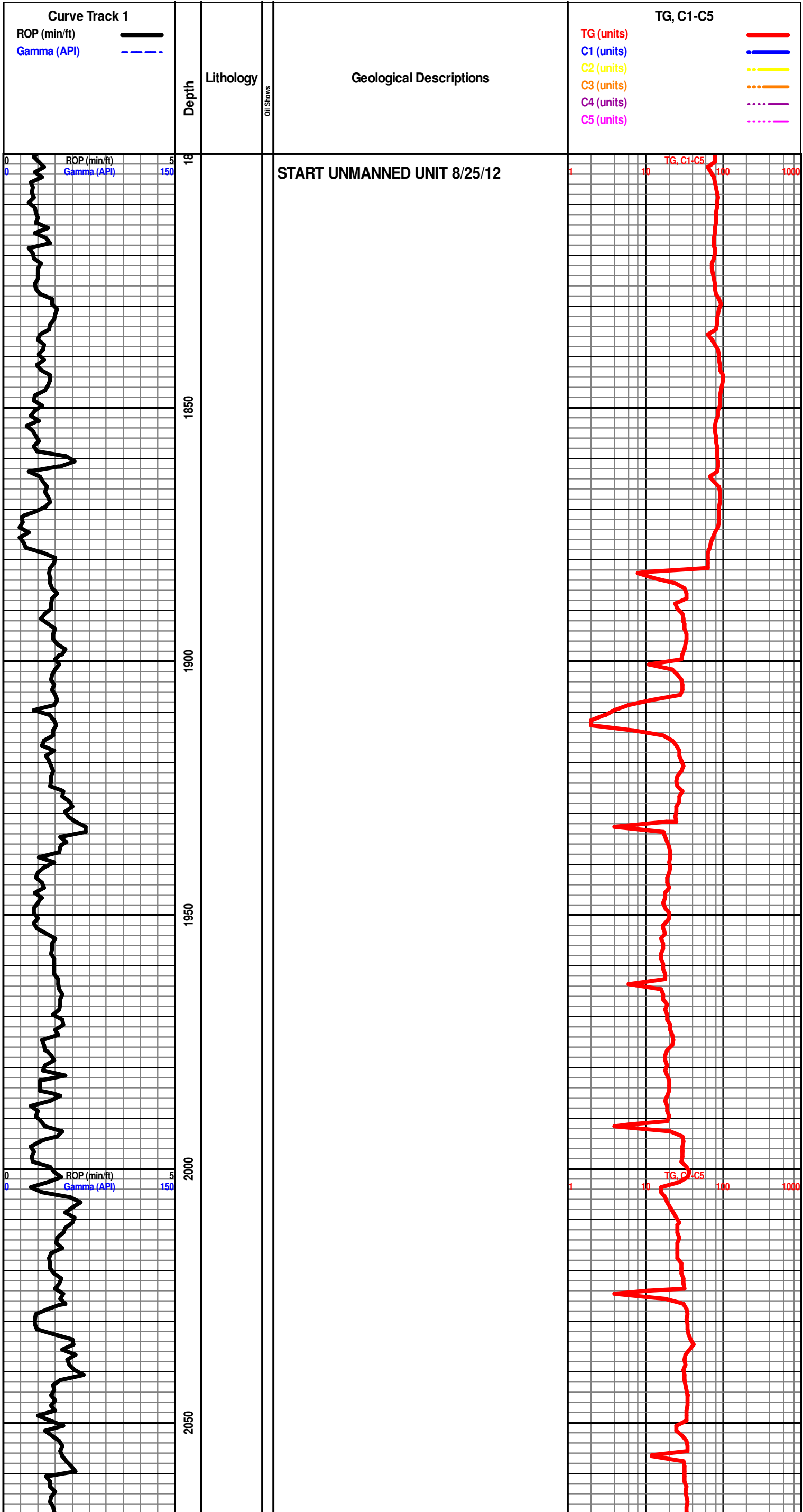
- E Even
- S Spotted
- Q Ques
- D Dead
- G Gas show

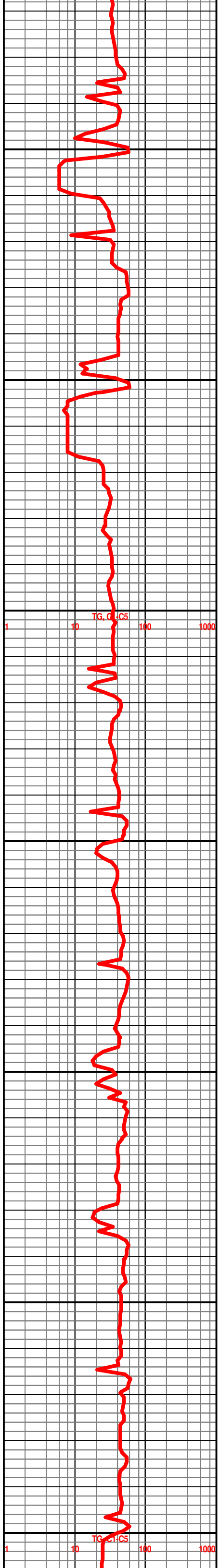
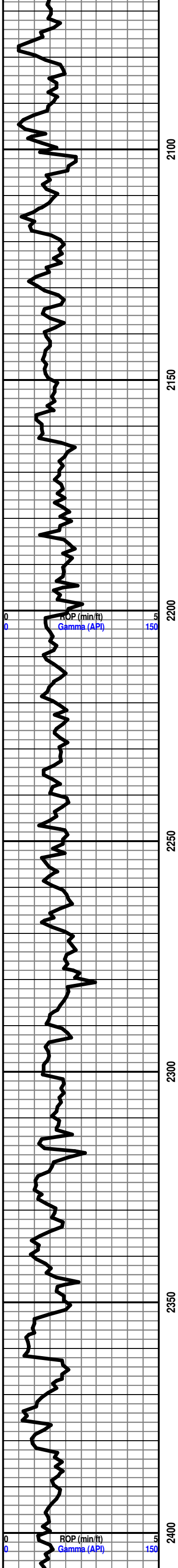
INTERVALS

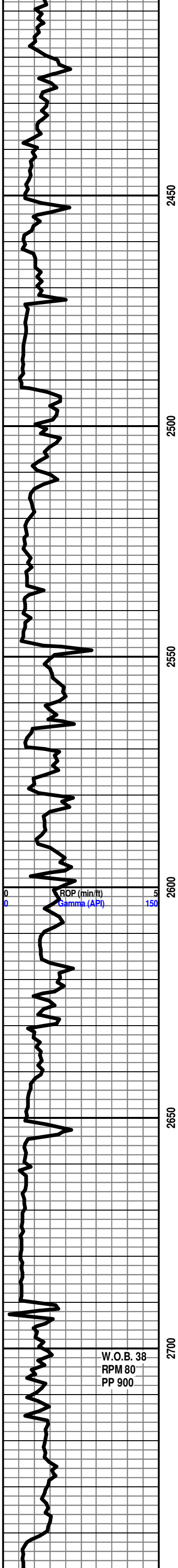
- Core
- Dst
- Dst

EVENTS

- Rft
- Sidewall







2450

2500

2550

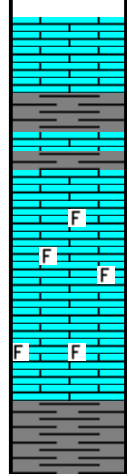
2600

2650

2700

ROP (min/ft)
Gamma (API)

W.O.B. 38
RPM 80
PP 900



BRS 2492'-665'

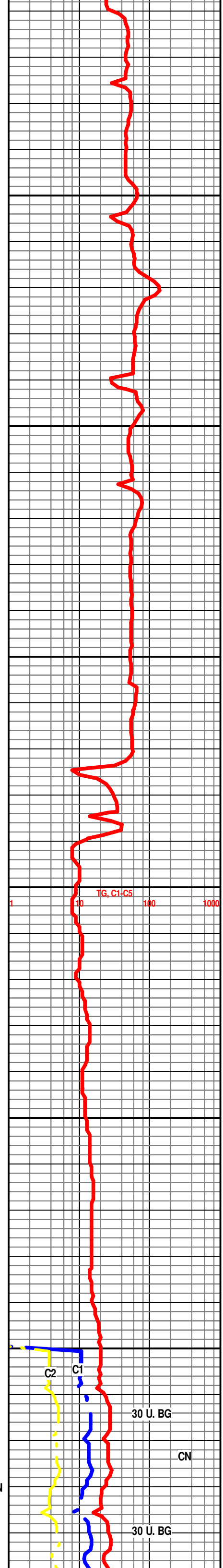
HOWARD 3690'-863'

START 24 HR. MANNED UNIT 8/26/12

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

LS- LT TN TO TN, HD DNS TO BRTT, MD-XLN MTRX,
RE-XLN IP, ABDT IMB FOSS FRAGS THRU, SCAT FREE
CALC-XLS IN TRAY, SLI TR IMB GY SH, V DUL YEL FLO IN
40%, NO VIS POR, NO VIS CUT OR SHOW

TOPEKA 2752'-925'



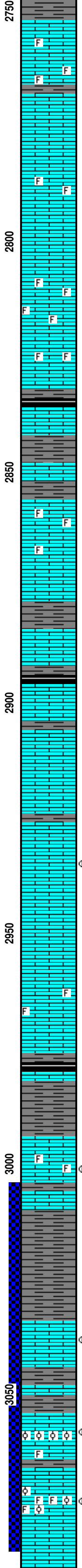
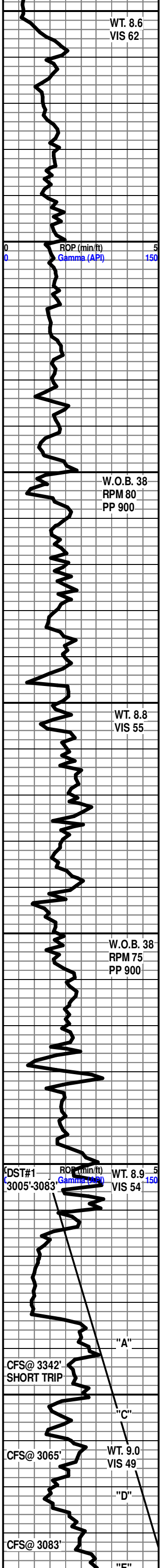
TG, C1-C5

C2 C1

30 U. BG

CN

30 U. BG



LS- LT TN TO TN, HD DNS TO BRIT, MD-XLN, S-CHLKY, SCAT IMB FOSS FRAGS, IMB SFT WHT CHLK IP, TR SFT WHT CHLK IN TRAY, DUL YEL FLO IN 20%, YEL FLO IN 10%, NO VIS POR, NO VIS CUT OR SHOW

LS- CRM TO LT TN, HD DNS TO BRIT IP, MD/F-XLN MTRX, TR S-CHLKY IP, IMB FOSS FRAGS IP, SLI TR FREE FOSSIL IP, TR V DUL YEL FLO IP, NO VIS POR, NO VIS CUT OR SHOW

LS- LT TN, HD DNS TO BRIT IP, MD-XLN, RE-XLN, ABDT IMB FOSS FRAGS THRU, TR FREE FOSSIL IP, SLI TR SFT WHT CHLK IN TRAY, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

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

LE COMPTON 2855'-1028'

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

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

SH- BLCK SFT CARB

LS- CRM TO LT TN, HD DNS TO BRIT IP, MD/F-XLN MTRX, RE-XLN IP, TR S-CHLKY IP, IMB CALC-XLS IP, SLI TR SFT WHT CHLK IN TRAY, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

2931'-2935' LS- OFF WHT TO CRM IP (W/ TN OIL STN SCAT IN 35%), HD DNS TO BRIT IP, MD-XLN MTRX, S-CHLKY, S-SUCRO IP, SCAT IMB SM CACL-XLS IP, TR IMB SFT WHT CHLK, V DUL YEL GLD FLO IN 20%, TR SPTTD YEL GLD FLO IP, PR TO TR FR MICRO-VUG POR SCAT IN 3%, FR FLSH CUT IN 40%, FR TO GD SLW STRM CUT IN 50%, LT TN LCH ON DSH, NO OIL ODOR

HEEBNER 2976'-1149'

SH- BLCK SFT CARB

3000'-3003' LS- CRM TO LT TN (W/ LT TN TO TN OIL STN IN 30%), V HD DNS TO TR BRIT IP, MD/F-XLN MTRX, S-SUCRO IP, SCAT IMB SM FOSS FRAGS IP, DUL YEL GLD FLO IN 60%, PR MICRO VUG POR IN 2%, V PR TR INTER-XLN POR IP, GD FLCH CUT IN 50%, GD SLW STRM CUT IN 60%, LT TN TO TN LCH ON DSH, LT OIL ODOR

DOUGLAS 3015'-1188'

SH- LT GRN TO LT GY, SFT TO V GMMY THRU

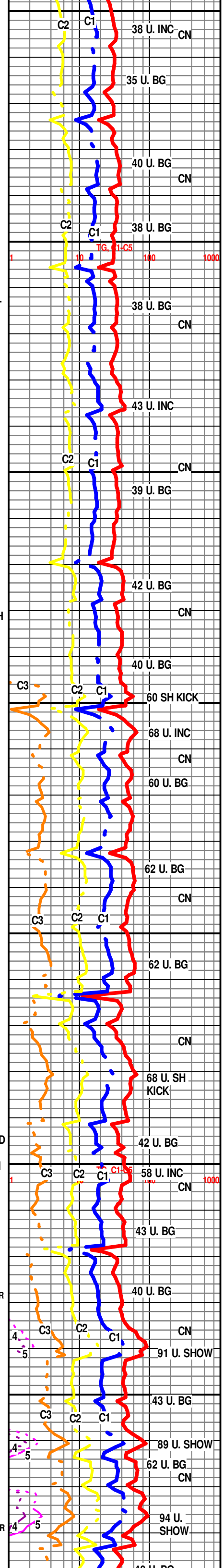
LANSING 3034'-1207'

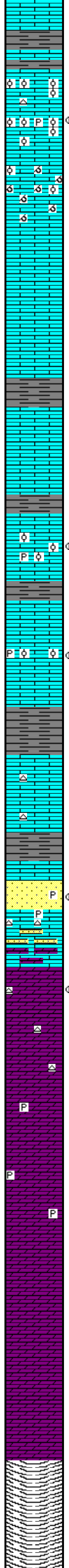
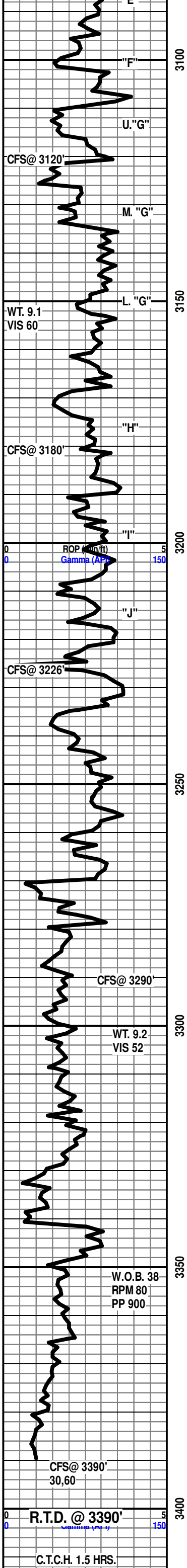
3036'-3039' LS- CRM TO LT TN (W/ TN OIL STN IN 15%), V HD DNS TO BRIT IP, MD/F-XLN MTRX, TR-RE-XLN IP, S-SUCRO, SCAT IMB SM-CALC-XLS IP, SLI TR IMB SFT WHT CLK, DUL YEL GLD FLO IN 40%, YEL GLD FLO IN 15%, PR TO FR VUG POR IN 1-2%, PR MICRO VUG POR SCAT IN 1-2%, FR FLCH CUT IN 60%, FR TO TR GD SLW STRM CUT IN 60%, TN LCH ON DSH, GD STRNG OIL ODOR

LANSING "C" 3055'-1228'

3056'-3059' LS- OFF WHT TO CRM (W/ TN OIL STN SCAT IN 20%), HD DNS TO BRIT IP, MD-XLN, RE-XLN MTRX, S-SUCRO IP, ABDT IMB SM OOLITES THRU, V-OOLITIC, IMB FOSS FRAGS IP, TR SCAT IMB SM CALC-XLS IP, DUL YEL GLD FLO IN 30%, BRT YEL GLD FLO IN 10%, FR TO TR GD INTER-OOLITIC POR IN 4%, PR TO FR MICRO-VUG POR IN 1-2%, GD FLCH CUT IN 60%, GD SLW STRM CUT IN 70%, TN LCH ON DSH, V STRNG OIL ODOR

3071'-3074' LS- CRM TO LT TN (W/ TN OIL STN IN 30%), HD DNS TO BRIT IP, MD-XLN, RE-XLN, S-SUCRO, TR S-CHLKY IP, SCAT IMB SM OOLITES IP, IMB LG TO MD FOSS FRAGS, SLI TR IMB WHT SFT CHLK, BRT YEL GLD FLO IN 20%, DUL YEL GLD FLO IN 10%, FR TO GD INTER-OOLITIC POR IN 5%, PR FOSS POR IP, POSS FRACT POR, PR TO TR FR FLCH CUT IN 50%, FR TO GD SLW STRM CUT IN 60%, TN LCH ON DSH, GD STRNG OIL ODOR



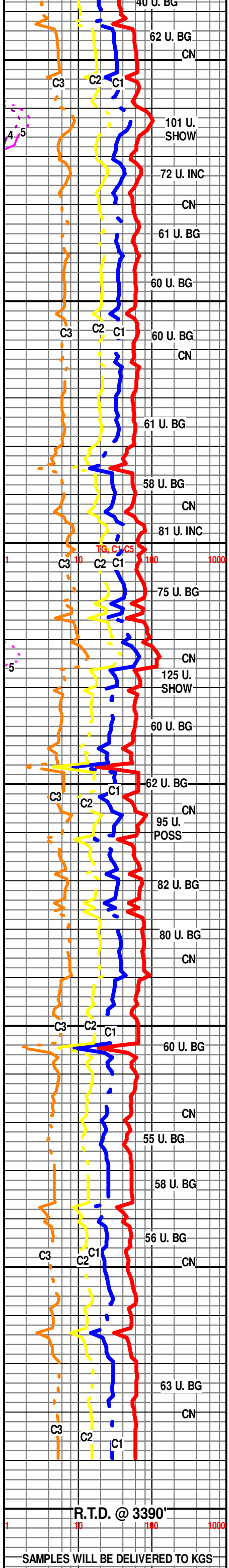


LANSING "F" 3102'-1275'
 3102'-3107' LS- CRM TO LT TN, HD DNS TO TR BRIT IP, MD/F-XLN, RE-XLN, S-CHLKY IP, ABDT IMB OOLITES THRU, TR SFT WHT CHLK IN TRAY, SLI TR WHT CHRT IP, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW
 3111'-3115' LS- OFF WHT TO CRM BFF (W/ LT TN TO TN OIL STN SCAT IN 20%, MD/XLN, V RE-XLN MTRX, S-CHLKY IP, ABDT IMB OOLITES THRU, V-OOLITIC, ABDT SFT WHT CHLK THRU TRAY, IMB SM FOSS FRAGS IP, SCAT PYR IP, TR IMB SM-CALC-XLS IP, DUL YEL GLD FLO IN 60%, BRT YEL GLD FLO IN 15%, V PR TO PR INTER-OOL POR IN 1%, PR TO FR FLSH CUT IN 40%, FR SLW STRM CUT IN 40%, V LT TN LCH ON DSH, LT OIL ODOR
 LS- OFF WHT TO CRM, HD DNS TO BRIT, MD-XLN MTRX, S-CHLKY IP, V- OOLMOLDIC, SCAT SFT WHT CHLK THRU TRAY, TR IMB SM OOLITES IP, DUL YEL FLO IN 20%, YEL FLO IN 10%, PR TO FR TO TR GD OOLMOLDIC POR IN 9%, NO VIS CUT OR SHOW
 LS- CRM TO LT TN, HD DNS TO BRIT IP, MD/F-XLN MTRX, S-CHLKY, IMB SM CALC-XLS IP, TR SCAT SFT WHT CHLK IN TRAY, DUL YEL FLO IN 30%, NO VIS POR, NO VIS CUT OR SHOW

LANSING "H" 3172'-1345'
 LS- LT TN TO TN IP, V HD DNS TO TR BRIT IP, MD/F-XLN MTRX, RE-XLN IP, SCAT IMB CALC-XLS IP, SLI TR IMB SFT WHT CHLK, YEL FLO IN 40%, DUL YEL FLO IP, NO VIS POR, NO VIS CUT OR SHOW
 3200'-3203' LS- LT TN TO TN (W/ DK TN OIL STN SCAT IN 70%), HD DNS TO TR BRIT IP, MD/F-XLN, RE-XLN, S-SUCRO THRU, ABDT IMB SM OOLITES THRU, TR IMB DISS PYR IP, YEL GLD FLO 60%, BRT YEL GLD FLO SCAT IN 20%, PR TO TR FR INTER-OOLITIC POR SCAT IN 3%, GD FLSH CUT IN 70%, GD SLW STRM CUT IN 80% DK TN LCH ON DSH, GD OIL ODOR
 3221'-3224' LS- OFF WHT TO CRM (W/ LIVE OIL STN IN 50%), HD DNS TO BRIT IP, MD/F-XLN MTRX, RE-XLN IP, S-SUCRO, SCAT IMB OOLITES IP, IMB SM TO MD CALC-XLS IP, TR SFT WHT CHLK IN TRAY, SLI TR PYR, DUL YEL GLD FLO IN 20%, SPTTD BRT YEL GLD FLO IN 10%, PR TO FR MICRO VUG POR IN 1%, PR TO TR FR INTER-XLN POR IP, FR TO GD FLSH CUT IN 40%, GD SLW STRM CUT IN 50%, LT TN LCH ON DSH, GD OIL ODOR
 3250'-3255' LS- CRM TO LT TN, V HD DNS TO TR BRIT IP, F/VF-XLN MTRX, SLI TR S-CHLKY, SCAT IMB SM CALC-XLS IP, SLI TR WHT CHRT IP, DUL YEL FLO IN 20%, NO VIS POR, NO VIS CUT OR SHOW

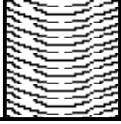
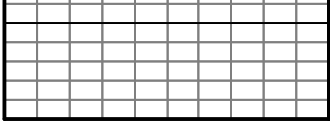
BKC 3260'-1433'
 SS- OFF WHT TO CRM (W/ TN OIL STN IN 10% & LIVE OIL STN IP, TT TO V FRI, ABDT VF TO MD S-ANG TO RND CLR QRTZ GRNS THRU, PR TO TR FR SRT, CALC-CMNT SLI GRDING TO SIL-CMNT, SCAT IMB SFT WHT CHLK, TR DISS PYR IP, YEL GLD FLO IN 50%, BRT YEL GLD FLO IN 20%, DUL YEL GLD FLO IP, FR TO TR GD INTER-GRN POR IN 8%, FR TO GD FLSH CUT IN 50%, GD SLW STRM CUT IN 50%, TN LCH ON DSH, LT OIL ODOR

ARBUCKLE 3290'-1463'
 3290'-3294' DOLO- WHT TO OFF WHT(W/ V LT TN OIL STN IN 10%), HD DNS TO TR BRIT IP, F/VF-XLN MTRX, RE-XLN IP, S-CHLKY IP, ABDT IMB SM S-ANG TO RND DOLO GRNS THRU, SCAT IMB SM S-ANG CLR QRTZ GRNS IP, SLI TR WHT CHRT, DUL YEL GLD FLO IN 20%, V PR TO PR INTER-GRN POR IN 2%, PR FLSH CUT IN 30%, PR TO TR FR SLW STRM CUT IN 25%, SLI TR V LT TN LCH ON DSH, NO OIL ODOR
 DOLO- OFF WHT TO CRM, HD DNS TO BRIT IP, MD/F-XLN, RE-XLN MTRX, ABDT IMB SM TO MD S-ANG TO RND DOLO GRNS THRU, TR IMB SM S-ANG CLR QRTZ GRNS, SCAT PYR IP, DUL YEL FLO IN 30%, NO VIS POR, NO VIS CUT OR SHOW
 DOLO- OFF WHT TO CRM, HD DNS TO BRIT IP, MD-XLN, V RE-XLN MTRX, ABDT IMB SM TO MD S-ANG TO RND CLR QRTZ GRNS THRU, SCAT IMB SM S-ANG TO RND DOLO GRNS THRU, YEL FLO IN 30%, DUL YEL FLO IN 20%, NO VIS POR, NO VIS CUT OR SHOW
 DOLO- OFF WHT TO CRM, HD DNS TO BRIT IP, V RE-XLN MTRX, ABDT IMB S-ANG TO RND DOLO GRNS THRU, ABDT IMB SM RND TO S-RND CLR QRTZ GRNS THRU, YEL FLO IN 40%, DUL YEL FLO IN 10%, NO VIS POR, NO VIS CUT OR SHOW

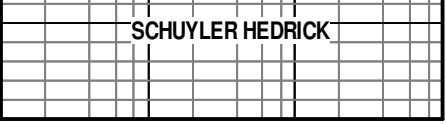


R.T.D. @ 6:35 P.M. 8/28/12
 DROP SURVEY
 T.O.F.L. @ 8:05 P.M.

R.T.D. @ 3390'
 THANK YOU FOR CHOOSING EARTH TECH



WEATHERFORD/ LIBERAL, KANSAS



SCHUYLER HEDRICK