



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1124717
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: _____



1124717

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	SHARON 1-15
Doc ID	1124717

All Electric Logs Run

INDUCTION
MICRO
NEUTRON DENSITY
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
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

March 15, 2013

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

Re: ACO1
API 15-009-25782-00-00
SHARON 1-15
NW/4 Sec.15-17S-15W
Barton 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: 11/28/2012
 Invoice # 6259

P.O.#:
 Due Date: 12/28/2012
 Division: Russell

Invoice

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

LG
 COMP
 W/O
 LOE

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

RECEIVED

DEC 07 2012

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

Reference:
 SHARON 1-15

Description of Work:
 LONG SURFACE JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 963.85	No				
Common-Class A	325	\$ 4,301.92	Yes				
8 5/8" Basket	3	\$ 1,000.67	Yes				
Bulk Truck Matl-Material Service Charge	343	\$ 724.11	No				
Calcium Chloride	12	\$ 603.69	Yes				
Pump Truck Mileage-Job to Nearest Camp	27	\$ 284.43	No				
8 5/8" Centralizer	3	\$ 202.67	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	27	\$ 166.44	No				
8 5/8" Top Rubber Plug	1	\$ 111.89	Yes				
Premium Gel (Bentonite)	6	\$ 103.11	Yes				
Baffle Plate Aluminum, 8 5/8"	1	\$ 95.00	Yes				

Invoice Terms:

Net 30

SubTotal:	\$	8,557.77
Discount Available <u>ONLY</u> if Invoice is Paid & Received within listed terms of invoice:	\$	(1,283.67)
<hr/>		
SubTotal for Taxable Items:	\$	5,456.10
SubTotal for Non-Taxable Items:	\$	1,818.01
<hr/>		
Total:	\$	7,274.10
Tax:	\$	398.30
Amount Due:	\$	7,672.40
Applied Payments:		
Balance Due:	\$	7,672.40

7.30% Barton 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.

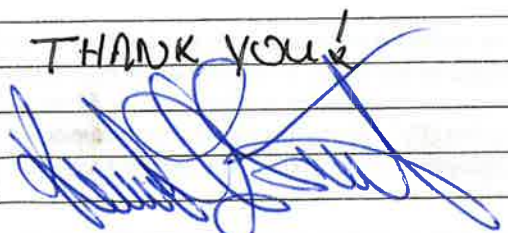
Federal Tax I.D.# 20-2886107

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

No. 6259

Phone 785-483-2025

Cell 785-324-1041

Date	Sec.	Twp.	Range	County	State	On Location	Finish
11-25-12	15	17	15	BARTON	KANSAS		1:30p
Lease SHAZON				Well No. #1-15		Owner SAM GARY	
Contractor VAL #6				To Quality Oilwell Cementing, Inc.			
Type Job L. SURFACE				You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Hole Size 12 1/4"		T.D. 898'		Charge To SAM GARY Jrd Assoc.			
Csg. 8 5/8" 23LB-NEW		Depth 899'		Street 1515 WYNKOOP			
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 42.18'		Cement Amount Ordered 325 com. 3cc - 2gEL			
Meas Line		Displace 54 1/2 BWS		Common 325			
EQUIPMENT				Poz. Mix 1 v			
Pumptrk #9 No.		Cementer Helper NICK		Gel. 6			
Bulktrk #4 No.		Driver LONNIE M.		Calcium 12			
Bulktrk #16 No.		Driver CISCO		Hulls			
JOB SERVICES & REMARKS				Salt			
Remarks:				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 343			
CEMENT Did CIRCULATE!				Mileage			
				FLOAT EQUIPMENT			
				Guide Shoe			
				Centralizer 3 - 8 7/8"			
				Baskets 3 - 8 5/8"			
				AFU Inserts			
				Float Shoe			
				Latch Down 1 Baffle plate			
				1 - 8 5/8 RUBBER PLUG			
				Pumptrk Charge 27			
				Mileage Long Surface			
THANK YOU!				Tax			
				Discount			
				Total Charge			
				Signature			



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

Date: 12/4/2012
 Invoice # 6235
 P.O.#:
 Due Date: 1/3/2013
 Division: Russell

Invoice

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

RECEIVED
 DEC 11 2012
 SAMUEL GARY JR.
 & ASSOCIATES, INC.

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

Reference:
 SHARON 1-15

Description of Work:
 PLUG JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 991.39	Yes				
Common-Class A	141	\$ 1,919.69	Yes				
Bulk Truck Matl-Material Service Charge	243	\$ 527.66	Yes				
POZ Mix-Standard	94	\$ 469.46	Yes				
Pump Truck Mileage-Job to Nearest Camp	27	\$ 292.56	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	27	\$ 171.20	Yes				
Premium Gel (Bentonite)	8	\$ 141.40	Yes				
Flo Seal	50	\$ 108.57	Yes				
Dry Hole Plug	1	\$ 60.80	Yes				

Invoice Terms:

Net 30

SubTotal:	\$	4,682.73
Discount Available <u>ONLY</u> if Invoice is Paid & Received within listed terms of invoice:	\$	(702.41)
<hr/>		
SubTotal for Taxable Items:	\$	3,980.32
SubTotal for Non-Taxable Items:	\$	-
<hr/>		
Total:	\$	3,980.32
Tax:	\$	290.56

7.30% Barton County Sales Tax

Thank You For Your Business!

Amount Due: \$ 4,270.88
Applied Payments:
Balance Due: \$ 4,270.88

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. 6235

Date	11-30-12	Sec.	15	Twp.	17	Range	15	County	Barton	State	KS	On Location	7:30 PM	Finish	11:45
Location								Olmitt 2 RD + 4 3N to 150 1 1/2 W S416							

Lease	Sharon	Well No.	4-15	Owner	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Contractor	Vol Big 6			Charge To	Sam Gavg Jr & Assoc
Type Job	Plug			Street	Ju.
Hole Size	10 7/8	T.D.	3640	City	
Csg.	Dill Pipe	Depth		State	
Tbg. Size		Depth		The above was done to satisfaction and supervision of owner agent or contractor.	
Tool		Depth		Cement Amount Ordered	235 60/40 4% bel 1/4 Plon
Cement Left in Csg.		Shoe Joint			

Meas Line	Displace	EQUIPMENT		Common	141		
Pumptrk	5	No.	Cementer	Poz. Mix	94		
			Helper	Gel.	8		
Bulktrk	10	No.	Driver	Calcium			
			Driver	Hulls			
Bulktrk	pu	No.	Driver	Salt			
			Driver	Flowseal	60#		
JOB SERVICES & REMARKS				Kol-Seal			
Remarks:					Mud CLR 48		
Rat Hole	30 SX					CFL-117 or CD110 CAF 38	
Mouse Hole	15 SX					Sand	
Centralizers					Handling	243	
Baskets	Sharon 1-15				Mileage		
D/V or Port Collar					FLOAT EQUIPMENT		
1st	35 17A w	25 SX				Guide Shoe	
2nd	10 15A w	25 SX				Centralizer	
3rd	945A w	40 SX				Baskets	
4th	470A w	80 SX				AFU Inserts	
5th	40ft w	10 SX				Float Shoe	
						Latch Down	
						Wood Plug	
						Pumptrk Charge	
						Mileage	27 plug

Signature		Randy D	Tax	
			Discount	
			Total Charge	



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates

15-17s-15w-Barton

1515 Wynkoop
Suite 700
Denver, CO. 80202
ATTN: Chris Mitchell

Sharon #1-15

Job Ticket: 48742

DST#: 1

Test Start: 2012.11.29 @ 13:52:37

GENERAL INFORMATION:

Formation: **H-I**
 Deviated: No Whipstock: 0.00 ft (KB)
 Time Tool Opened: 15:38:22
 Time Test Ended: 19:57:37
 Interval: **3400.00 ft (KB) To 3446.00 ft (KB) (TVD)**
 Total Depth: 3446.00 ft (KB) (TVD)
 Hole Diameter: 7.80 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jason McLemore
 Unit No: 54
 Reference Elevations: 1981.00 ft (KB)
 1971.00 ft (CF)
 KB to GR/CF: 10.00 ft

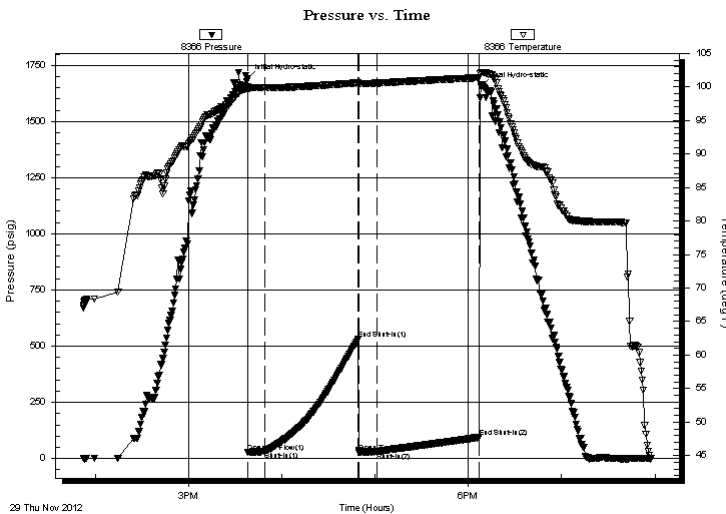
Serial #: 8366

Inside

Press @ Run Depth: 28.13 psig @ 3435.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.11.29 End Date: 2012.11.29 Last Calib.: 2012.11.29
 Start Time: 13:52:39 End Time: 19:57:37 Time On Btm: 2012.11.29 @ 15:38:07
 Time Off Btm: 2012.11.29 @ 18:08:07

TEST COMMENT: IFP-Weak Surface Blow
 ISI-Dead
 FFP-Weak Blow , Built to 1/4"
 FSI-Dead

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1689.16	100.09	Initial Hydro-static
1	28.53	99.58	Open To Flow (1)
12	31.54	99.89	Shut-In(1)
71	529.96	100.62	End Shut-In(1)
72	26.85	100.46	Open To Flow (2)
83	28.13	100.57	Shut-In(2)
149	94.81	101.39	End Shut-In(2)
150	1654.13	102.17	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud W/Oil Specks	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Associates

15-17s-15w-Barton

1515 Wynkoop
Suite 700
Denver, CO. 80202
ATTN: Chris Mitchell

Sharon #1-15

Job Ticket: 48742

DST#: 1

Test Start: 2012.11.29 @ 13:52:37

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: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5300.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud W/Oil Specks	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler: 45#, 250ml Oil 2750ml Mud

Serial #: 8366

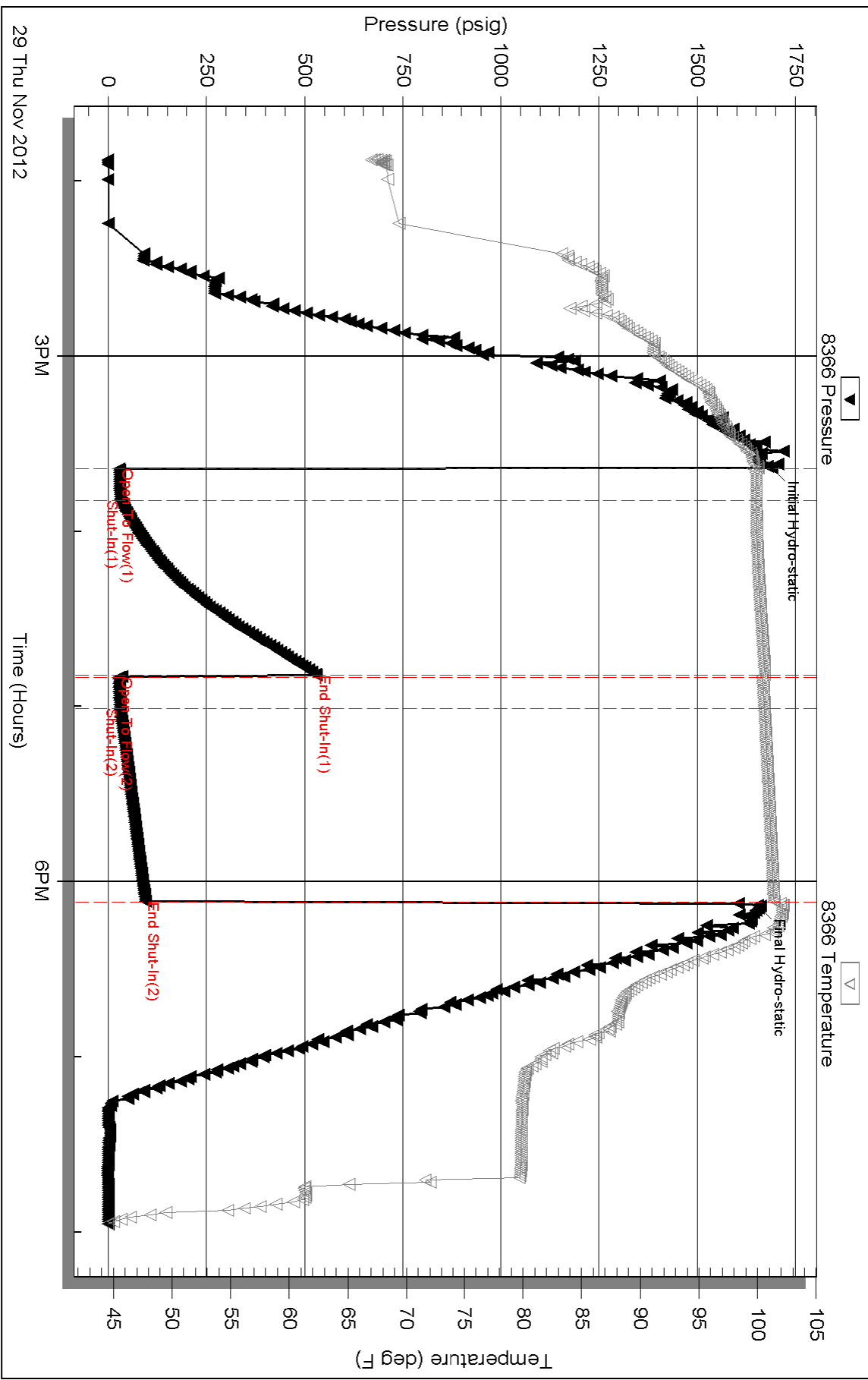
Inside

Samuel Gary Jr. & Associates

Sharon #1-15

DST Test Number: 1

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 48742

Printed: 2012.11.30 @ 04:04:08



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

Well Name: Sharon 1-15
 Location: Sec. 15 17S-15W Barton County, Kansas
 License Number: 15-009-25782-0000 Region: WILDCAT
 Spud Date: 11/24/12 Drilling Completed: 11/30/12
 Surface Coordinates: 800 FNL/ 2310 FWL

Bottom Hole Coordinates:
 Ground Elevation (ft): 1971' K.B. Elevation (ft): 1981'
 Logged Interval (ft): 2900' To: 3640' Total Depth (ft): 3640'
 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 Cell: 785-531-2406

DST's Report

DST# 1 3400'-3446'
 IF- WK SURF BLW, ISI- DEAD, FF- WK BLW, BUILT TO 1/4", FSI- DEAD
 IH-1689, FH- 1654/ IF- 28 TO 31, FF- 26 TO 28/ ISI- 529', FSI- 94
 REC. 5' OF TF/ 5' OF MUD W/ OIL SPECS

ROCK TYPES

	Anhy		Gyp		Shgy		Sandylms
	Bent		Igne		Slst		Shale
	Brec		Lmst		Ss		Slstn
	Cht		Meta		Till		Shlyslts
	Clyst		Mrlst		Carb sh		Slytsh
	Coal		Salt		Dol		Lms
	Congl		Shale		Dtd		
	Dol		Shcol		Gry sh		

ACCESSORIES

MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Breclrag
- 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
- Silty



- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom
- Fuss
- Oomold



- Clystn
- Dol
- Grysh
- Gryslt
- Lms
- Sandylms
- Sh
- Sltstn

FOSSIL

- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram

STRINGER

- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg
- Carbsh

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

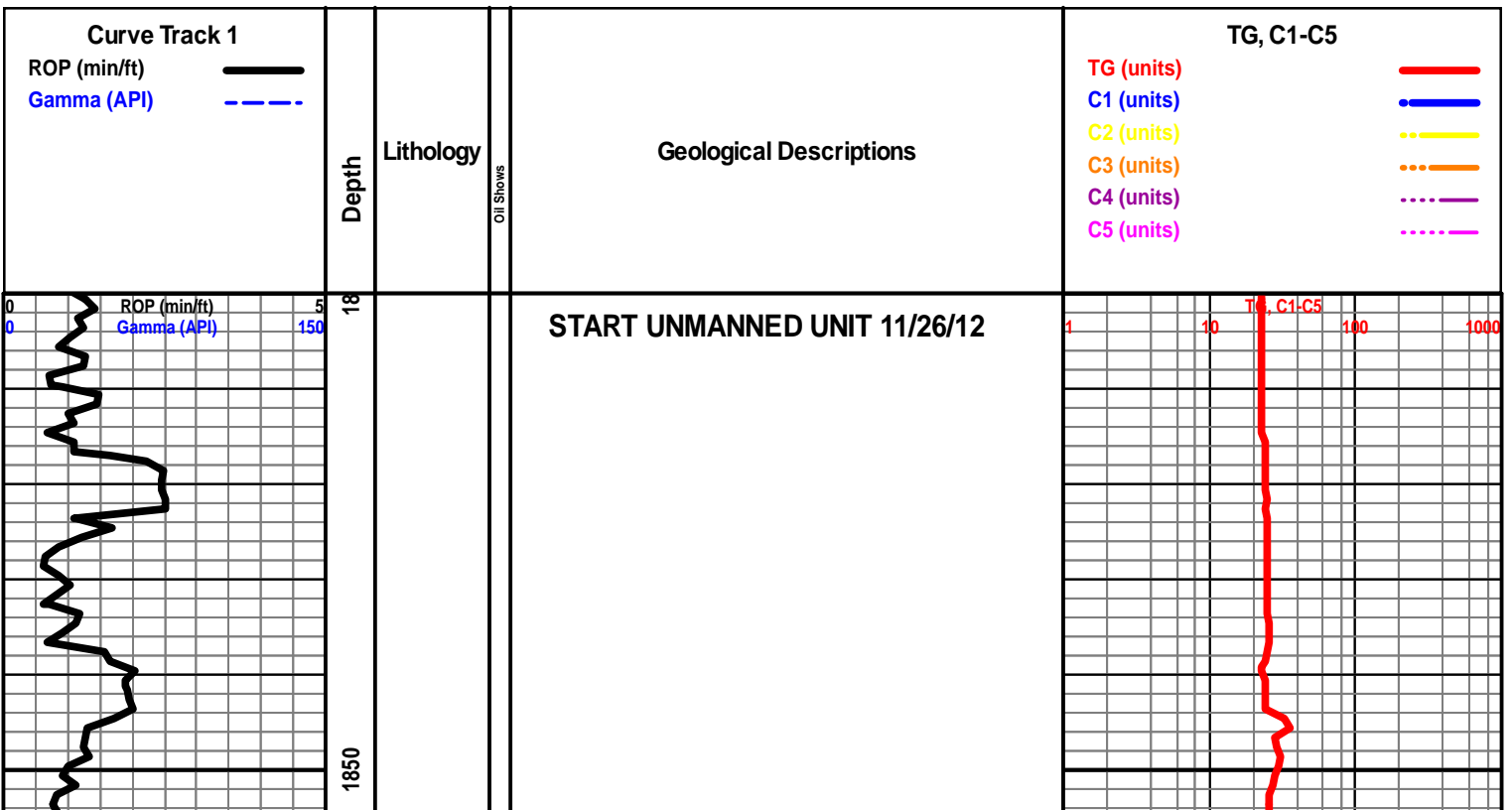
- Even
- Spotted
- Ques
- Dead
- Gas show

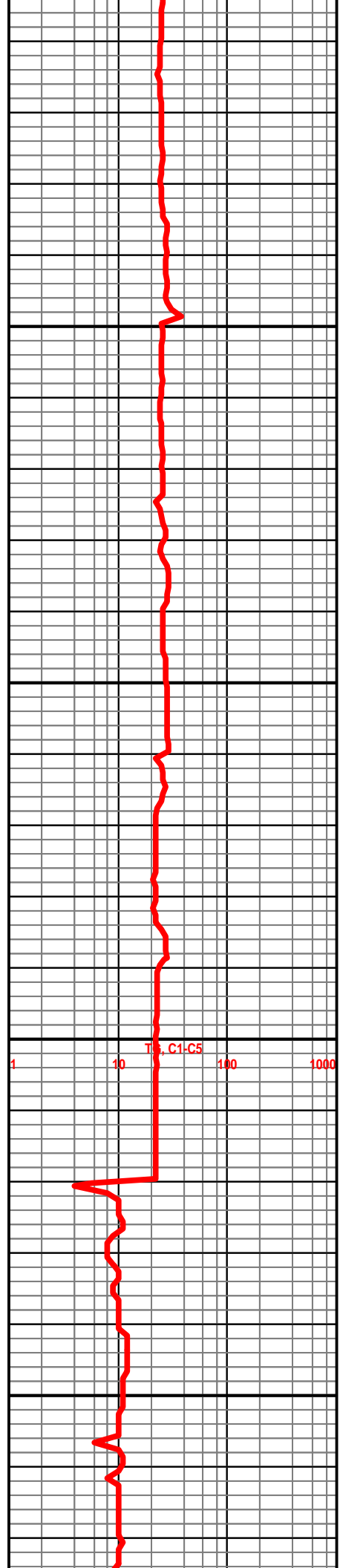
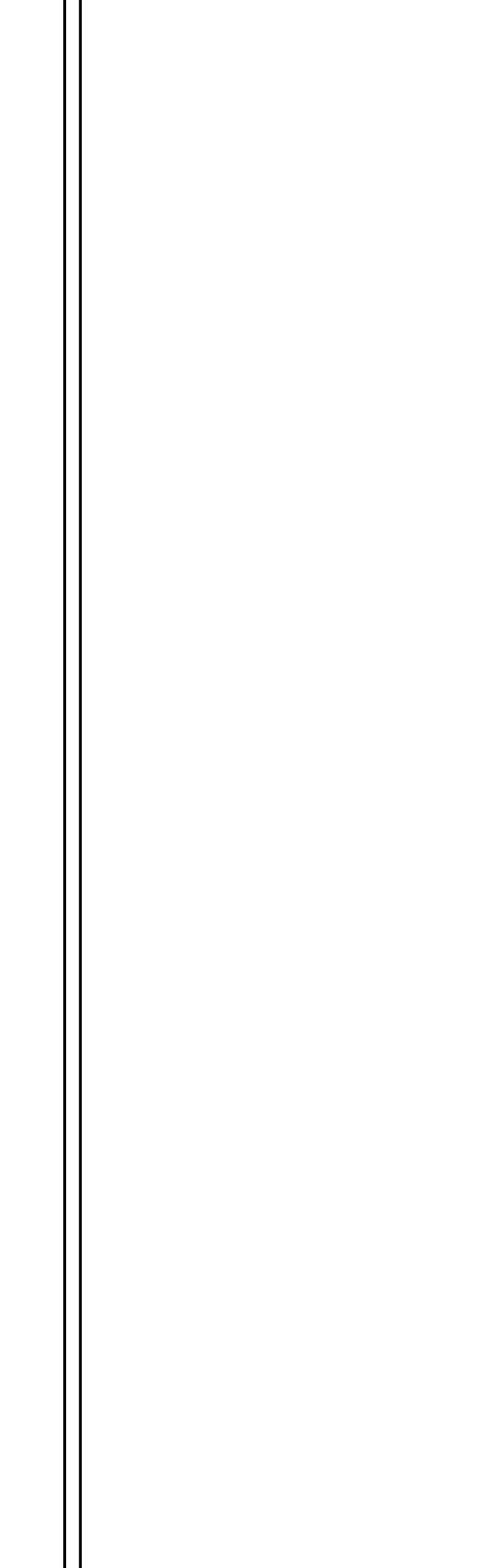
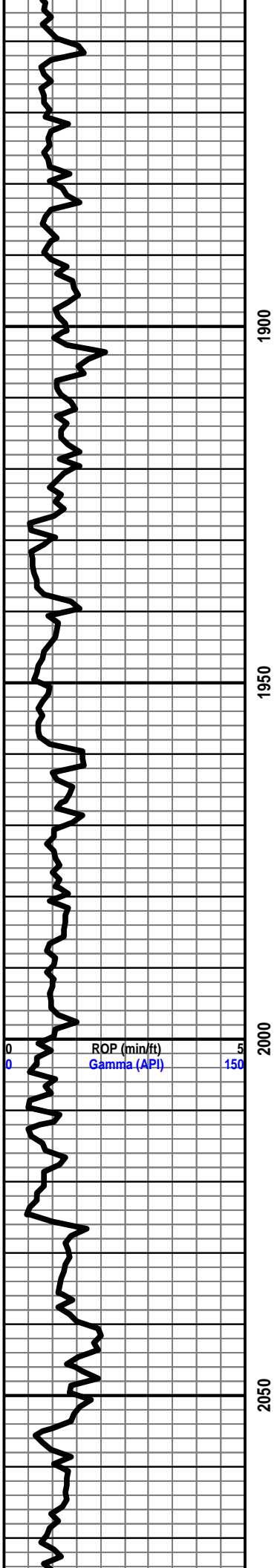
INTERVALS

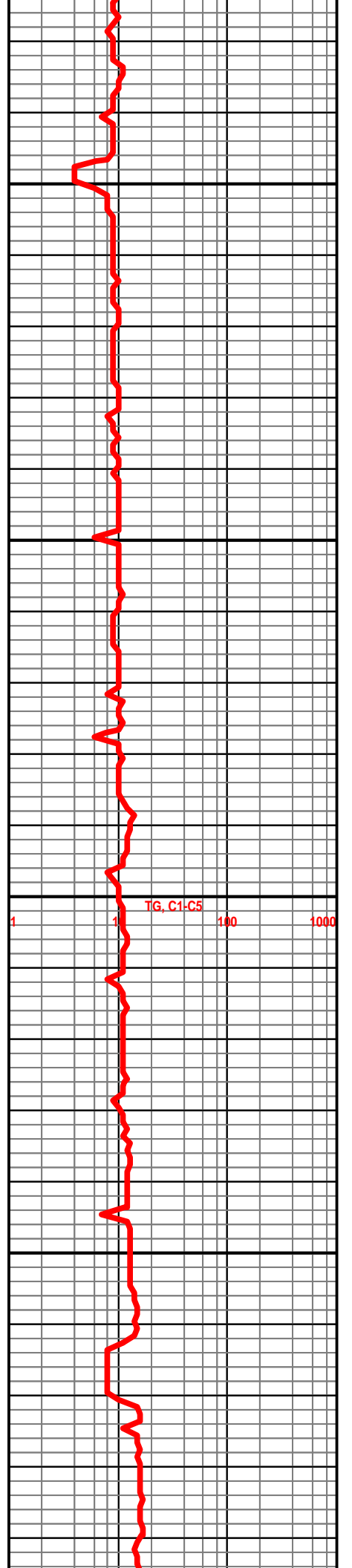
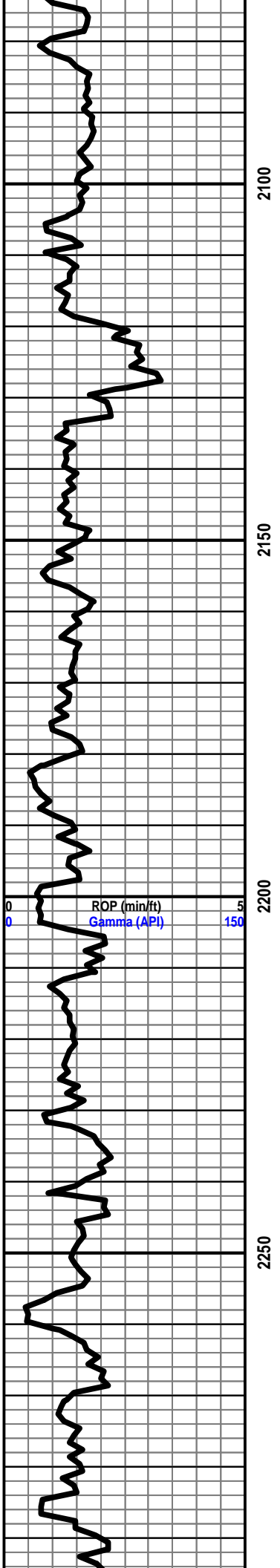
- Core
- Dst
- Dst

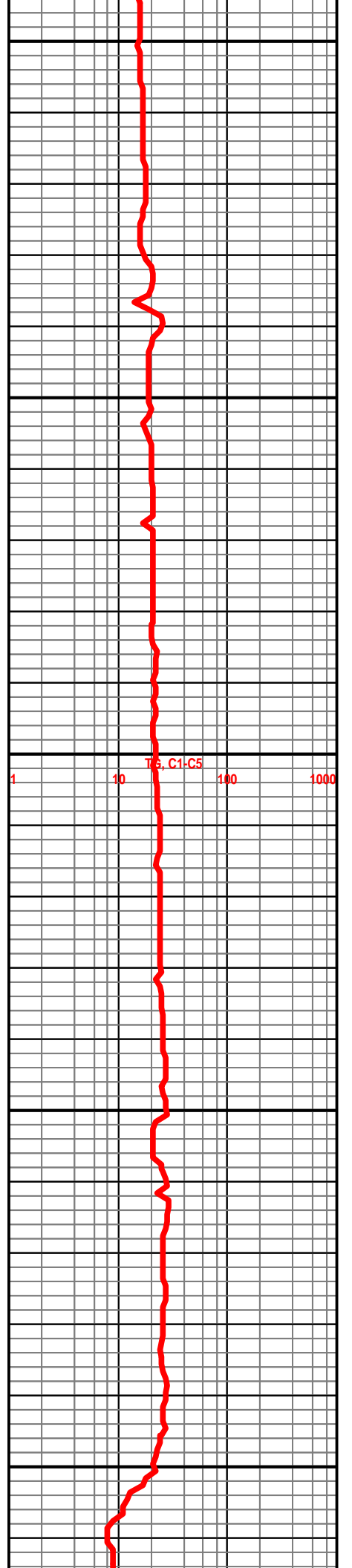
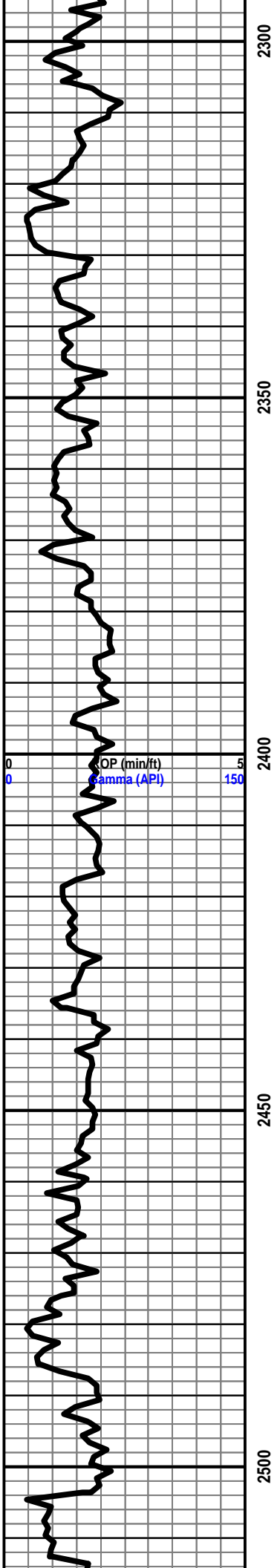
EVENTS

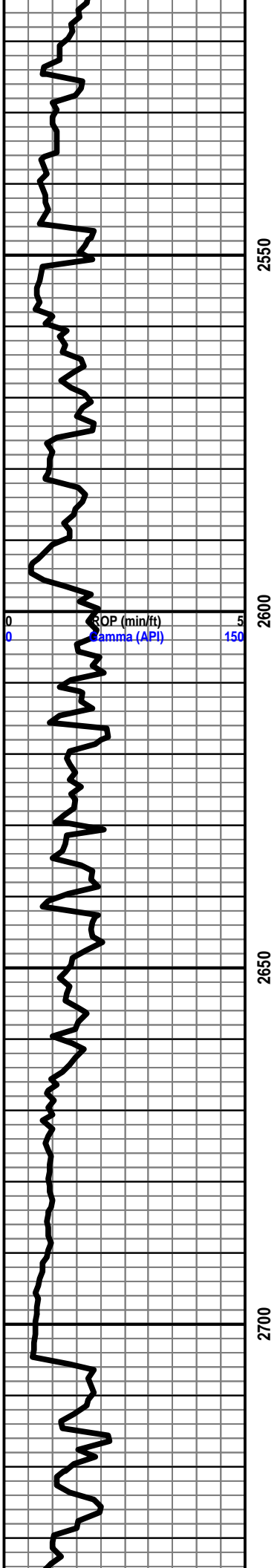
- Rft
- Sidewall











2550

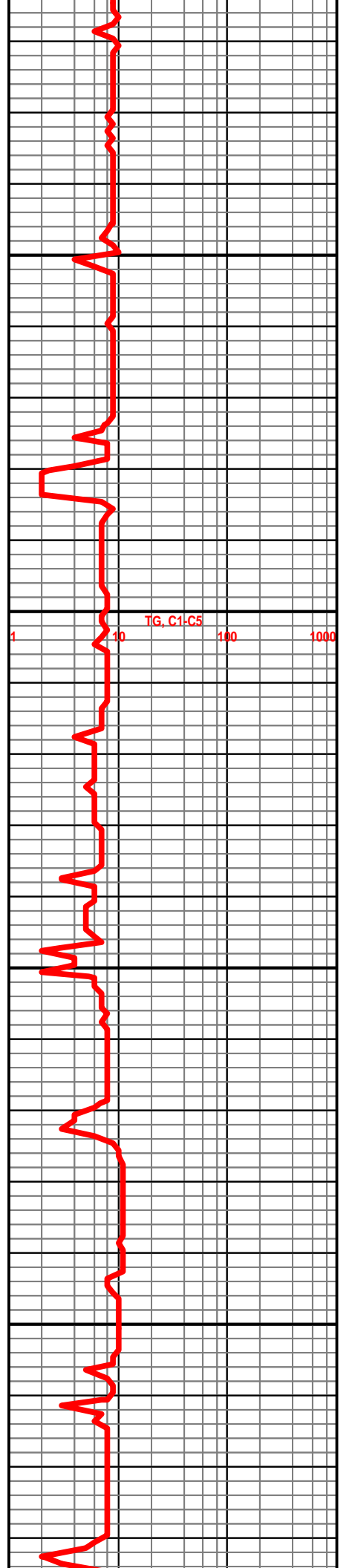
2600

2650

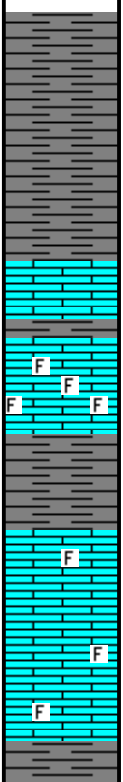
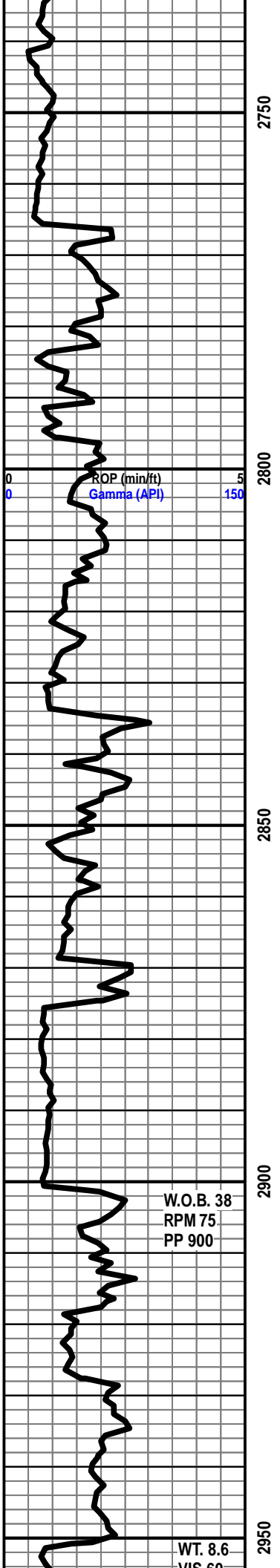
2700

ROP (min/ft)
Gamma (API)

BRS 2705'-724'



TG, C1-C5



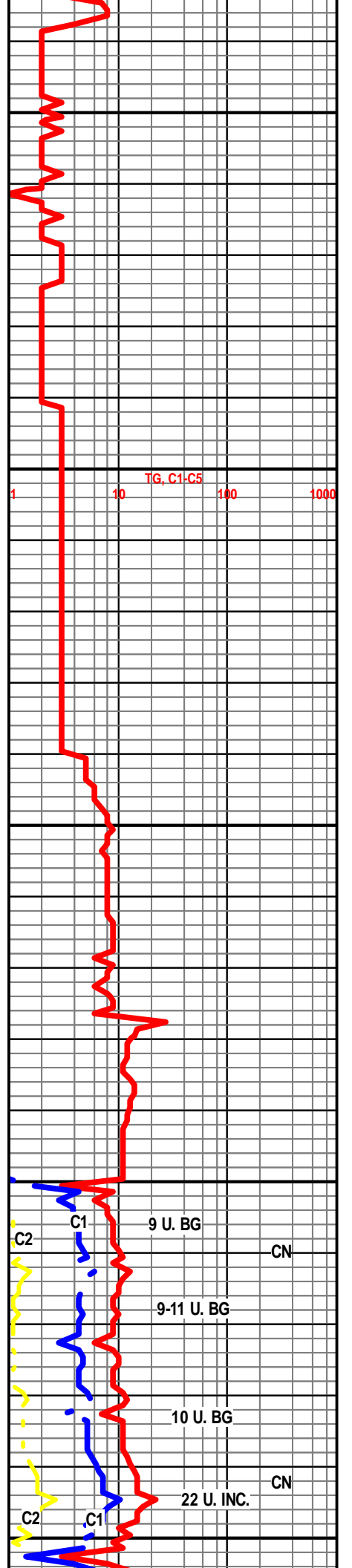
W.O.B. 38
RPM 75
PP 900

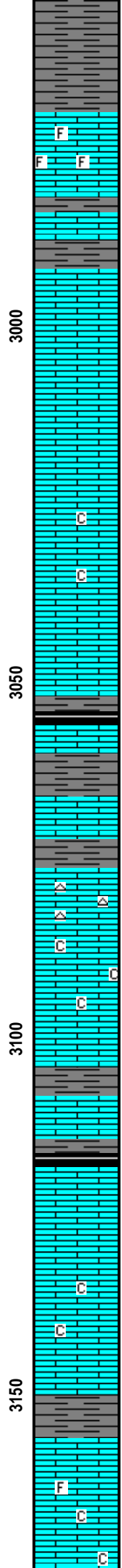
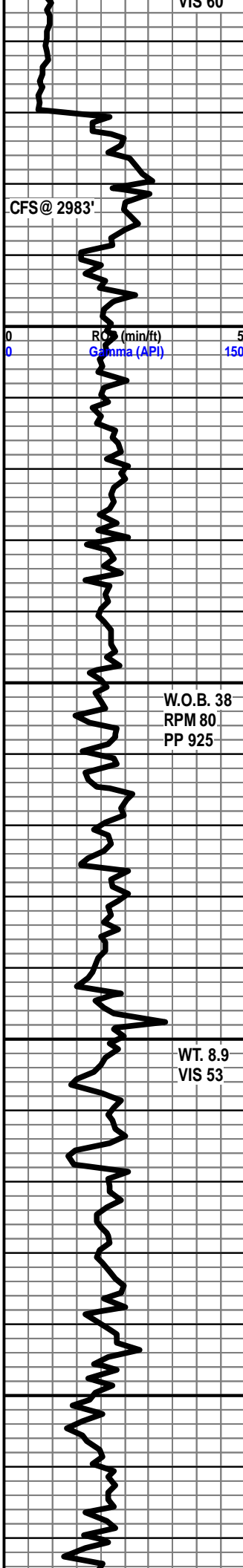
WT. 8.6
VIS 60

START 24 HR. MANNED UNIT 11/28/12
HOWARD 2901'-920'

LS- CRM TO LT TN, HD DNS TO BRIT IP, MD/F-XLN MTRX,
RE-XLN IP, S-CHLKY IP, IMB FOSS FRAGS THRU, SCAT
SFT WHT CHLK IN TRAY, TR FREE CALC-XLS IN TRAY,
DUL YEL FLO IN 50%, NO VIS POR, NO VIS CUT OR
SHOW

LS- LT TN TO TN, HD DNS TO BRIT IP, MD-XLN MTRX,
RE-XLN, S-SUCRO, SCAT IMB CALC-XLS THRU, TR IMB
FOSS FRAGS IP, SLI TR SFT WHT CHLK IN TRAY, YEL
FLO IN 30%, DUL YEL FLO IP, NO VIS POR, NO VIS CUT
OR SHOW





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

TOPEKA 2970'-989'

LS- LT TN TO TN, HD DNS TO BR TT, MD/XLN, RE-XLN, S-SUCRO, S-CHLKY IP, IMB FOSS FRAGS THRU, SCAT SFT WHT CHLK IN TRAY, SLI TR PYR, DUL YEL FLO IN 40%, V DUL YEL FLO N 20%, TR V PR TO PR MICRO VUG POR IP, NO VIS CUT OR SHOW

LS- CRM TO LT TN, HD DNS TO BR TT IP, MD/F-XLN MTRX, RE-XLN IP, S-SUCRO, SLI TR S-CHLKY, SCAT IMB SM CALC-XLS THRU, DUL YEL FLO IN 30%, NO VIS POR, NO VIS CUT OR SHOW

LS- CRM TO LT TN TN, HD DNS TO BR TT IP, MD-XLN MTRX, S-SUCRO IP, ABDT IMB SM CALC-XLS THRU, TR SCAT SFT WHT CHLK IN TRAY, SLI TR FREE CALC-XLS IN TRAY, V DUL YEL FLO IN 20%, SLI TR SPTTD YEL FLO IP, NO VIS POR, NO VIS CUT OR SHOW

LE COMPTON 3056'-1075'

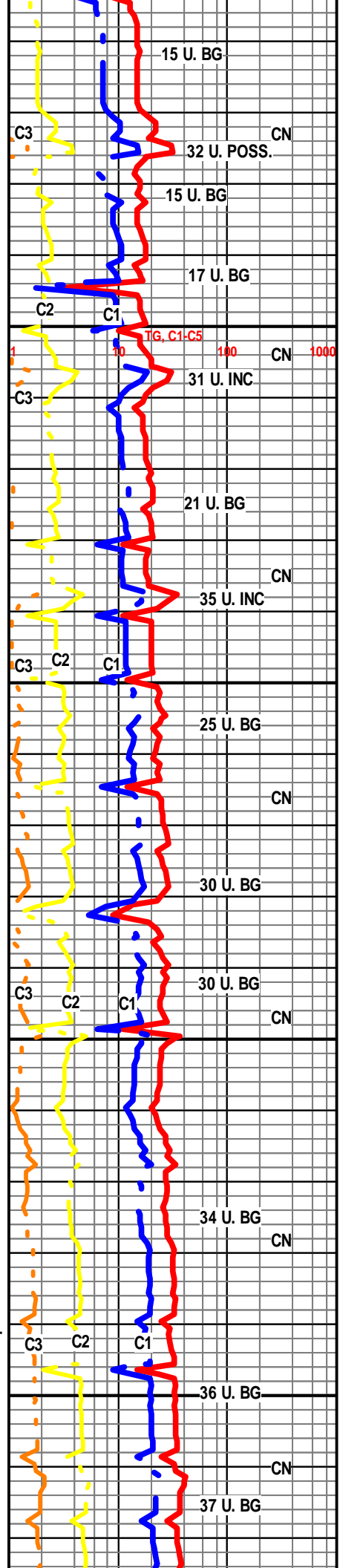
SH- LT GY, V FRM TO SFT, BLCKY SMTH TXT SPLNTY IP

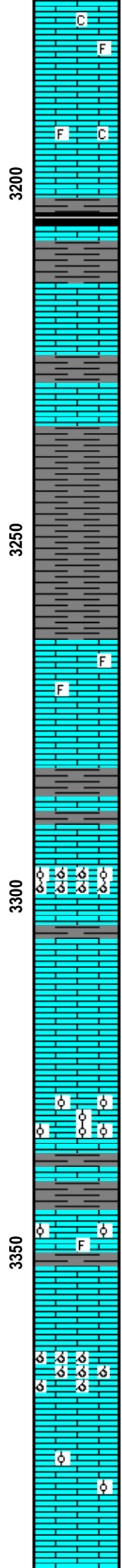
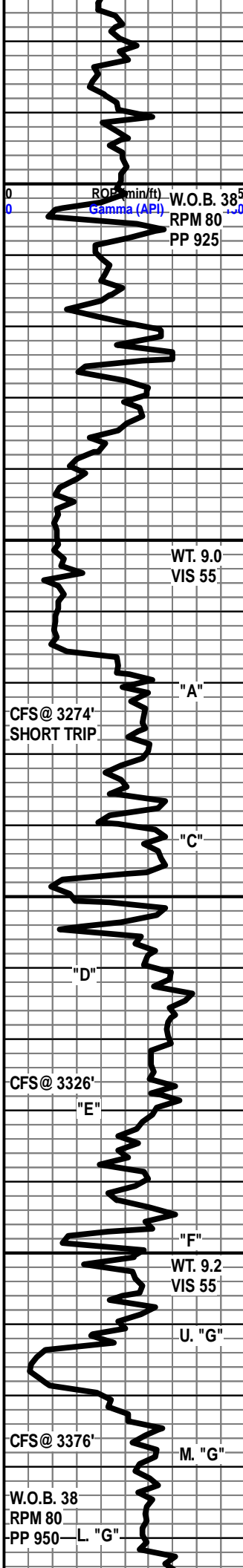
LS- OFF WHT TO CRM IP, V HD DNS TO TR BR TT IP, VF/CRYPTO-XLN, TR WHT CHRT IN TRAY, SLI TR SFT WHT CHLK IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

SH- BLCK SFT CARB

3138'-3141' LS- OFF WHT TO CRM LT GY IP (W/ LIVE OIL STN IN 20-30%), HD DNS TO BR TT, MD/F-XLN, S-SUCRO THRU, S-CHLKY IP, IMB SM CALC-XLS IP, SLI TR SFT WHT CHLK IN TRAY, DUL YEL GLD FLO IN 30%, YEL GLD FLO IN 10%, V PR TO PR TR FR MICRO VUG POR SCAT IN 2%, GD FL SH CUT IN 40%, GD SLW STRM CUT IN 50%, LT TN LCH ON DSH, PR OIL ODOR

LS- OFF WHT TO CRM LT TN IP, HD DNS TO BR TT,





MD/F-XLN MTRX, TR RE-XLN IP, S-CHLKY, SCAT SFT WHT CHLK THRU TRAY, TR IMB FOSS FRAGS IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

HEEBNER 3202'-1221'

SH- BLCK SFT CARB

LS- OFF WHT TO CRM, HD DNS TO BRTT, MD/F-XLN, S-SUCRO, SLI TR S-CHLKY, IMB SM CALC-XLS IP, DUL YEL FLO IN 20%, NO VIS POR, NO VIS CUT OR SHOW

SH- LT GY TO GY, SFT TO V GMMY THRU, BLCK SMTH TXT

LANSING 3265'-1284'

LS- LT TN TO TN, HD DNS TO BRTT IP, F/XLN MTRX, S-CHLKY, TR IMB FOSS FRAGS IP, SLI TR IMB SFT WHT CHLK IP, TR DUL YEL FLO IP, NO VIS POR, NO VIS CUT OR SHOW

LANSING "C" 3290'-1309'

3297'-3301' LS- OFF WHT TO CRM, HD DNS TO V-BRTT, MD/XLN, RE-XLN MTRX, S-SUCRO THRU, SLI TR S-CHLKY IP, V-OOLMOLDIC, ABDT SFT WHT CHLK THRU TRAY, TR SCAT IMB SM OOLITES IP, SLI TR PYR IN TRAY, DUL YEL FLO IN 40%, YEL FLO IN 10-20%, PR TO FR TO TR GD OOLMOLDIC POR IN 10%, TR FR VUG POR IN 1%, NO VIS CUT OR SHOW

LS- CRM TO LT TN TN IP, V HD DNS, F/VF-XLN MTRX, TR RE-XLN IP, S-CHLKY, SLI S-SUCRO IP, SCAT IMB SM CALC-XLS THRU, TR IMB SFT WHT CHLK, V DUL YEL FLO IN 30%, DUL YEL FLO IN 10%, NO VIS POR, NO VIS CUT OR SHOW

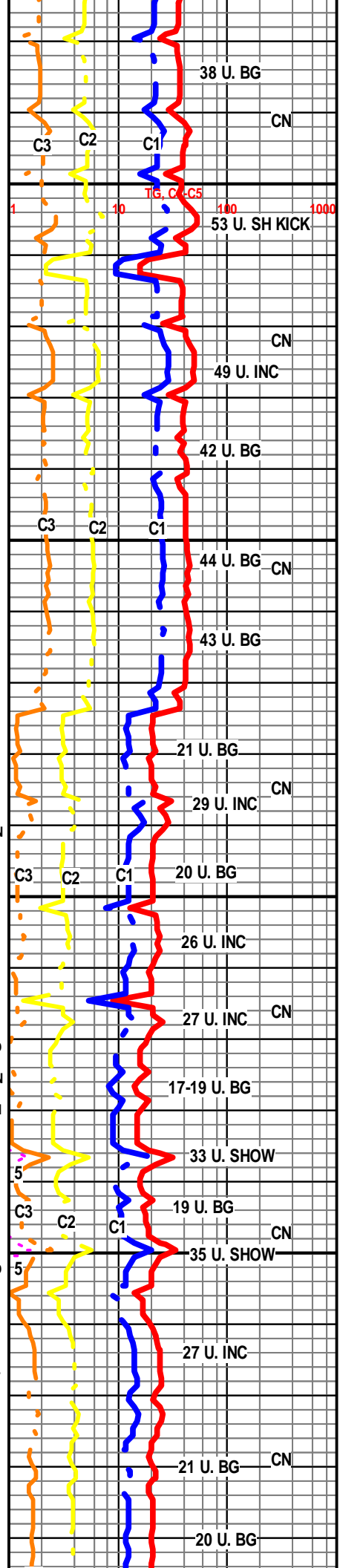
3332'-3334' LS- OFF WHT TO CRM (W/ LT TN TO TN OIL STN IN 30%), HD DNS TO BRTT, V-RE-XLN MTRX, S-CHLK THRU, ABDT IMB OOLITES THRU, V-OOLITIC, SCAT IMB SFT WHT CHLK THRU, DUL YEL GLD FLO IN 50%, SPTTD BRT YEL GLD FLO IN 10%, FR TO GD INTER-OOL POR SCAT IN 4%, PR FLH CUT IN 30%, PR TO TR FR SLW STRM CUT IN 40%, LT TN LCH ON DSH, FR OIL ODOR

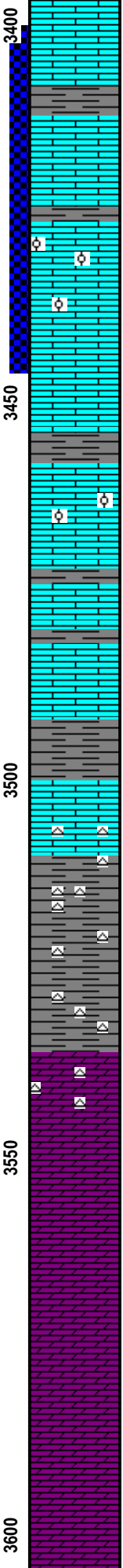
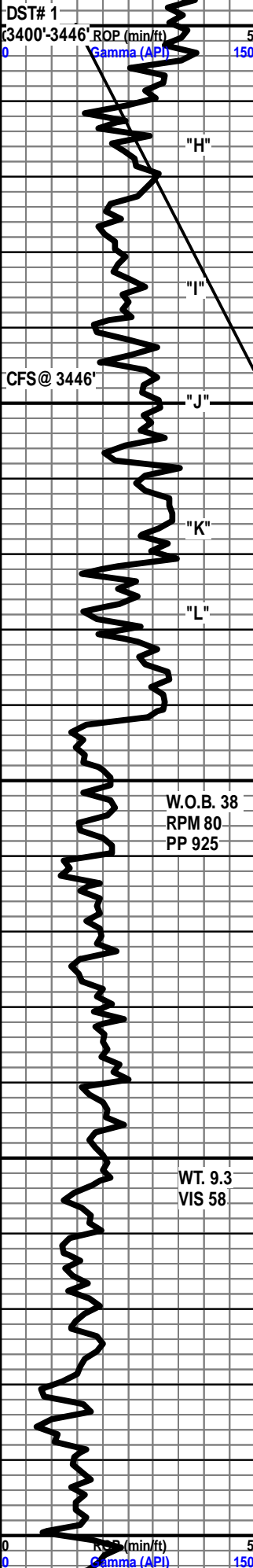
LANSING "F" 3343'-1362'

3347'-3349' LS- CRM TO LT TN (W/ TN TO DK TN OIL STN IN 50%), HD DNS TO BRTT, MD/XLN MTRX, RE-XLN IP, V S-CHLKY, IMB LG CALC-XLS, SCAT IMB SM TO MD OOLITES, SLI TR IMB FOSS FRAGS IP, TR SFT WHT CHLK IN TRAY, YEL GLD FLO IN 60%, BRT YEL GLD FLO IN 10-20%, V PR TO PR INTER-XLN POR IN 2%, SLI TR PR TO TR FR VUG POR IP, FR TO GD FLH CUT IN 50-60%, GD SLW STRM CUT IN 60%, TN LCH ON DSH, FR TO GD OIL ODOR

3363'-3369' LS- OFF WHT TO CRM, HD DNS TO V-BRTT, MD-XLN, RE-XLN MTRX, S-SUCRO, S-CHLKY, V-OOLMODIC THRU, ABDT SFT WHT CHLK THRU TRAY, SLI TR IMB SM OOLITES IP, DUL YEL FLO IN 20-30%, PR TO FR TO GD OOLMOLDIC POR IN 15%, NO VIS CUT OR SHOW

LS- LT TN TO TN, V HD DNS, VF-XLN MTRX, CRYPTO-XLN IP, SCAT IMB SM OOLITES IP, SLI TR IMB CALC-XLS, DUL YEL FLO IN 30%, NO VIS POR, NO VIS CUT OR SHOW





LANSING "H" 3413'-1432'

3414'-3418' LS- OFF WHT (W/DK BRWN TO BLCK STN IN 80% & LIVE OIL STN IN 10%), HD DNS TO BRTT IP, MD/F-XLN, V SUCRO, SCAT IMB SM TO MD CALC-XLS IP, DUL YEL GLD FLO IN 50%, SCAT BRT YEL GLD FLO IN 20%, PR TO FR INTER-XLN POR IN 3%, SLI TR MICRO-VUG POR IP, GD FLSH CUT IN 80%, GD SLW STRM CUT IN 80%, DK TN TO BRWN LCH ON DSH, GD STRNG OIL ODOR

3426'-3429' LS- OFF WHT TO CRM (W/LT TN TO TN OIL STN SCAT IN 30-40%), HD DNS TO BRTT IP, MD/F-XLN MTRX, S-SUCRO SCAT THRU, IMB SM CALC-XLS IP, IMB SM OOLITES IP, YEL GLD FLO IN 70%, BRT YEL GLD FLO IN 20%, PR TO FR INTER-XLN POR IN 2%, PR MICRO-VUG POR IN 1%, TR V PR TO PR VUG POR IP, FR TO GD FLSH CUT IN 60%, GD SLW STRM CUT IN 60%, TN LCH ON DSH, V STRNG OIL ODOR

LS- CRM TO LT TN, V HD DNS TO TR BRTT IP, F/VF-XLN MTRX, IMB SM CACL-XLS THRU, SCAT IMB SM OOLITES, TR SCAT SFT WHT CHLK IN TRAY, DUL YEL FLO IN 20%, NO VIS POR, NO VIS CUT OR SHOW

LS- LT TN TO TN, HD DNS TO BRTT IP, F/VF-XLN, S-CHLKY, SCAT SFT WHT CHLK IN TRAY, TR IMB SM CALC-XLS, NO VIS FLO, NO VIS POR, NO VIS SHOW

BKC 3492'-1511'

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

LS- LT TN TO TN, HD DNS TO BRTT IP, F/VF-XLN MTRX, ABDT SFT WHT CHLK THRU TRAY, SCAT WHT CHRT IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

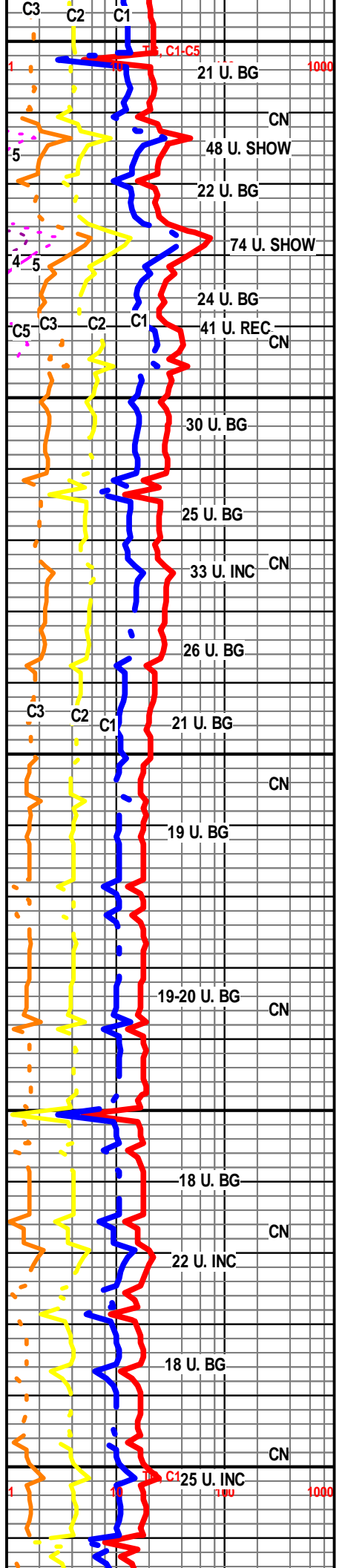
SH- RD TO DK RD, SFT TO V GMMY THRU, WHT CHRT THRU

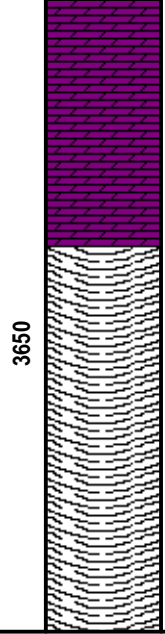
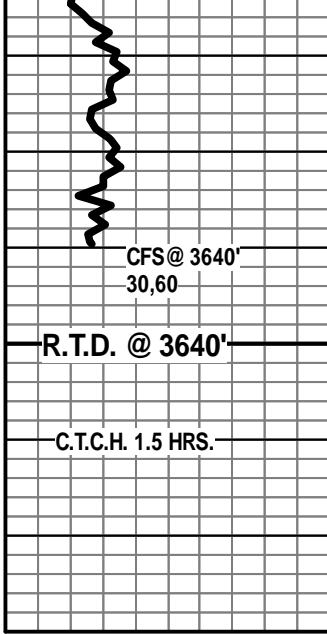
ARBUCKLE 3537'-1556'

3540'-3544' DOLO- TN TO DK TN (W/ BRWN TO BLCK OIL STN IN 30-40%), HD DNS TO BRTT, MD/XLN, V RE-XLN MTRX, S-SUCRO THRU, ABDT IMB SM S-ANG TO RND IP CLR QRTZ GRNS THRU, SCAT SFT WHT CHLK IN TRAY, WHT CHRT IN TRAY, SLI TR PYR IN TRAY, DUL YEL GLD FLO IN 40%, SPTTD YEL GLD FLO IN 10%, V PR TO PR INTER-GRN POR IN 1%, PR TO TR FR FLSH CUT IN 30%, FR SLW STRM CUT IN 30%, LT TN TO TN LCH ON DSH, WK OIL ODOR

DOLO- WHT TO OFF WHT, HD DNS TO BRTT IP, MD/F-XLN MTRX, RE-XLN, S-SUCRO IP, IMB SM RND DOLO GRNS THRU, TR SFT WHT CHLK IN TRAY, DUL YEL FLO IN 30%, YEL FLO IN 10%, SLI TR INTER-GRN POR IP, NO VIS CUT OR SHOW

DOLO- WHT TO OFF WHT, HD DNS TO BRTT IP, MD-XLN, RE-XLN MTRX, S-CHLKY, ABDT IMB SM TO MD S-ANG TO RND DOLO GRNS THRU, SCAT IMB SM RND CLR QRTZ GRNS, SCAT SFT WHT CHLK IN TRAY, DUL YEL FLO IN 20%, NO VIS POR, NO VIS CUT OR SHOW





DOLO- OFF WHT TO CRM IP, HD DNS TO BRTT IP, V
 RE-XLN MTRX, TR S-CHLKY IP, ABDT IMB SM TO MD
 S-ANG DOLO GRNS THRU, IMB SM S-ANG CLR QTRZ
 GRNS THRU, SCAT SFT WHT CHLK IN TRAY, DUL YEL FLO
 IN 40%, YEL FLO IN 20%, NO VIS POR, NO VIS CUT OR
 SHOW

T.D. @ 6:25 A.M. 11/30/12

DROP SURVEY

T.O.F.L. @ 7:55 A.M.

WEATHERFORD/ LIBERAL, KANSAS

