

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1267046
OIL & GAS CONSERVATION DIVISION

Form ACO-1
November 2016

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

Gas DH EOR

OG GSW

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 EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No.: _____

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 Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

1267046



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 Geologist Report / Mud Logs <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
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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				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/Injection:	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

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) (Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	SCHLEGEL TRUST 1-27
Doc ID	1267046

All Electric Logs Run

DEN-NEUT
INDUCTION
MICRO
SONIC

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. 1829

Date	6-20-15	Sec.	27	Twp.	16	Range	16	County	Rush	State	Ks	On Location		Finish	4:30 AM
Lease								Schlegel Trust		Well No.		1-27			
Contractor								Discovery		2		Owner			
Type Job								Surface		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				12 1/4"		T.D.		727'		Charge To					
Csg.				8 5/8"		Depth		726'		Sam Gary Jr. + Associates					
Tbg. Size						Depth				Street					
Tool						Depth				City					
Cement Left in Csg.				41,91'		Shoe Joint		41,91'		State					
Meas Line						Displace		43 3/4		The above was done to satisfaction and supervision of owner agent or contractor.					
EQUIPMENT								Common							
Pumptrk		17		No.		Cementer		Lornie		325					
Bulktrk		4		No.		Driver		Travis		Poz. Mix					
Bulktrk		p.u.		No.		Driver		Rick		Gel. 7					
						Driver				Calcium 12					
JOB SERVICES & REMARKS								Hulls							
Remarks:								Cement did Circulate							
Rat Hole								Salt							
Mouse Hole								Flowseal							
Centralizers								1, 7, 16							
Baskets								2, 8							
D/V or Port Collar								Kol-Seal							
								Mud CLR 48							
								CFL-117 or CD110 CAF 38							
								Sand							
								Handling 344							
								Mileage							
								FLOAT EQUIPMENT							
								Guide Shoe							
								Centralizer 3							
								Baskets 2							
								AFU Inserts							
								Float Shoe							
								Latch Down							
								Rubber plug							
								Pumptrk Charge Long Surface							
								Mileage 30							
								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. 1165

Date	6-25-15	Sec.	27	Twp.	16	Range	14	County	Rush	State	KS	On Location		Finish	10:15 PM
Lease								Location		Galatin Twp 1/2 S E into					

Lease	Schlegel trust	Well No.	1-27	Owner	To Quality Oilwell Cementing, Inc.
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Contractor	Discovery	2	You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.		
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Type Job	Plug	Charge To	Sam Gentry Jr & Associates		
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Hole Size	7 7/8	T.D.	3593	Street	
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Csg.	D.P 4 1/2	Depth	3513	City	State
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Tbg. Size		Depth		The above was done to satisfaction and supervision of owner agent or contractor.	
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Tool		Depth		Cement Amount Ordered	220 sk 60% 10 4% 60 1 1/4 #/sk
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Cement Left in Csg.		Shoe Joint			
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Meas Line		Displace	mud/water		
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EQUIPMENT			Common	132	
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Pumptrk	18	No.	Cementer Helper	Cody	Poz. Mix	88
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Bulktrk	14	No.	Driver	Lorraine	Gel.	8
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Bulktrk	Plu	No.	Driver	Billy	Calcium	
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JOB SERVICES & REMARKS			Hulls		
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Remarks:		Salt			
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Rat Hole	30 sk	Flowseal	50 #		
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Mouse Hole	20 sk	Kol-Seal			
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Centralizers		Mud CLR 48			
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Baskets		CFL-117 or CD110 CAF 38			
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D/V or Port Collar		Sand			
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1st	3513'	50 sk	Handling	228	
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2nd	1070'	50 sk	Mileage		
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3rd	750'	50 sk	FLOAT EQUIPMENT		
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4th	60'	20 sk	Guide Shoe		
-----	-----	-------	------------	--	--

Rat	30 sk	Centralizer			
-----	-------	-------------	--	--	--

Mouse	20 sk	Baskets			
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		AFU Inserts			
--	--	-------------	--	--	--

		Float Shoe			
--	--	------------	--	--	--

		Latch Down			
--	--	------------	--	--	--

		Pumptrk Charge	plug		
--	--	----------------	------	--	--

		Mileage	30		
--	--	---------	----	--	--

Signature			Tax		
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Discount		
Total Charge		



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Samuel Gary Jr & Associates

27-16s-16w Rush KS

1515 Wynkoop st. STE 700
Denver CO, 80202

Schlegel Trust 1-27

Job Ticket: 62718

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2015.06.22 @ 22:01:00

GENERAL INFORMATION:

Formation: **Topeka**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:57:30

Time Test Ended: 09:52:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Cody Bloedorn

Unit No: 73

Interval: 2921.00 ft (KB) To 2952.00 ft (KB) (TVD)

Reference Elevations: 1939.00 ft (KB)

Total Depth: 2952.00 ft (KB) (TVD)

1931.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8648 Inside

Press@RunDepth: 17.31 psig @ 2949.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.06.22

End Date:

2015.06.23

Last Calib.:

2015.06.23

Start Time: 22:01:05

End Time:

09:52:45

Time On Btm:

2015.06.23 @ 01:56:30

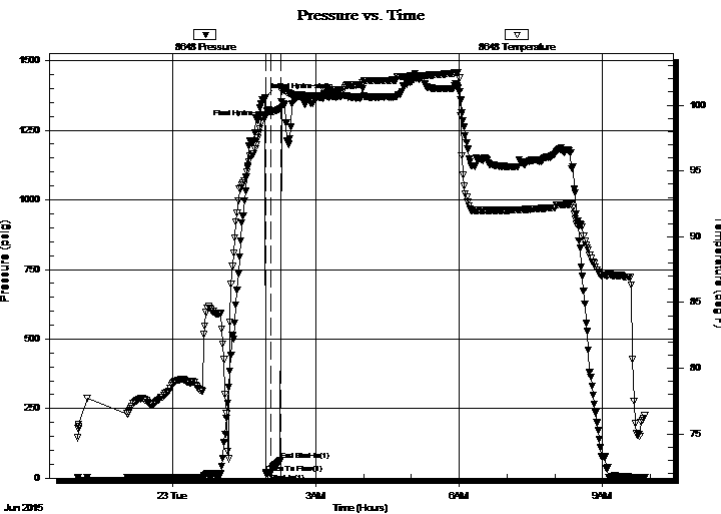
Time Off Btm:

2015.06.23 @ 02:16:45

TEST COMMENT: IF- 8" blow

IS- 4" return

****pulled tool 20 minutes into shut in. cedar hills started flow ing. dropped bar to pump mud into hole. No fluid recovery*****



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1367.67	99.18	Initial Hydro-static
1	15.98	99.30	Open To Flow (1)
7	17.31	99.52	Shut-In(1)
20	63.44	99.75	End Shut-In(1)
21	1354.30	101.11	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	Mud, with alot of cuttings.	0.91

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Samuel Gary Jr & Associates

27-16s-16w Rush KS

1515 Wynkoop st. STE 700
Denver CO, 80202

Schlegel Trust 1-27

Job Ticket: 62718

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2015.06.22 @ 22:01:00

GENERAL INFORMATION:

Formation: **Topeka**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:57:30

Time Test Ended: 09:52:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Cody Bloedorn

Unit No: 73

Interval: 2921.00 ft (KB) To 2952.00 ft (KB) (TVD)

Reference Elevations: 1939.00 ft (KB)

Total Depth: 2952.00 ft (KB) (TVD)

1931.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8958 Fluid

Press@RunDepth: psig @ 2888.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.06.22

End Date: 2015.06.23

Last Calib.: 2015.06.23

Start Time: 22:01:05

End Time: 09:52:33

Time On Btm:

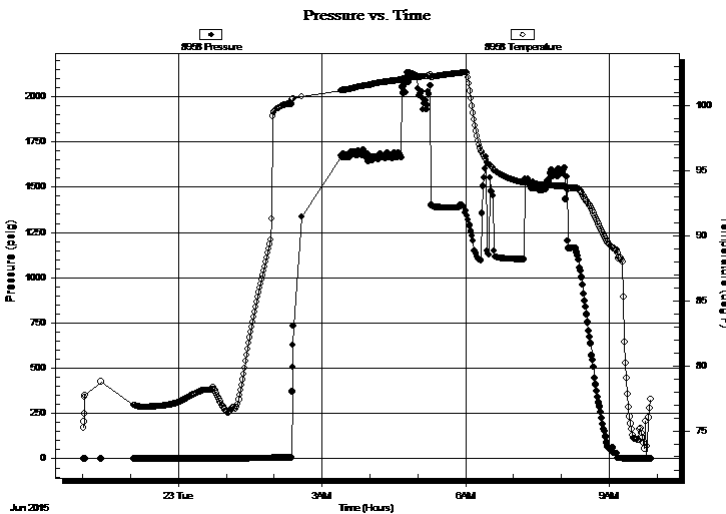
Time Off Btm:

TEST COMMENT: IF- 8" blow

IS- 4" return

****pulled tool 20 minutes into shut in. cedar hills started flow ing. dropped bar to pump mud into hole. No fluid recovery*****

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
124.00	Mud, with alot of cuttings.	0.91

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr & Associates

27-16s-16w Rush KS

1515 Wynkoop st. STE 700
Denver CO, 80202

Schlegel Trust 1-27

Job Ticket: 62718

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2015.06.22 @ 22:01:00

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: 27.00 sec/qt

Cushion Volume:

bbbl

Water Loss: in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	Mud, with alot of cuttings.	0.911

Total Length: 124.00 ft Total Volume: 0.911 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

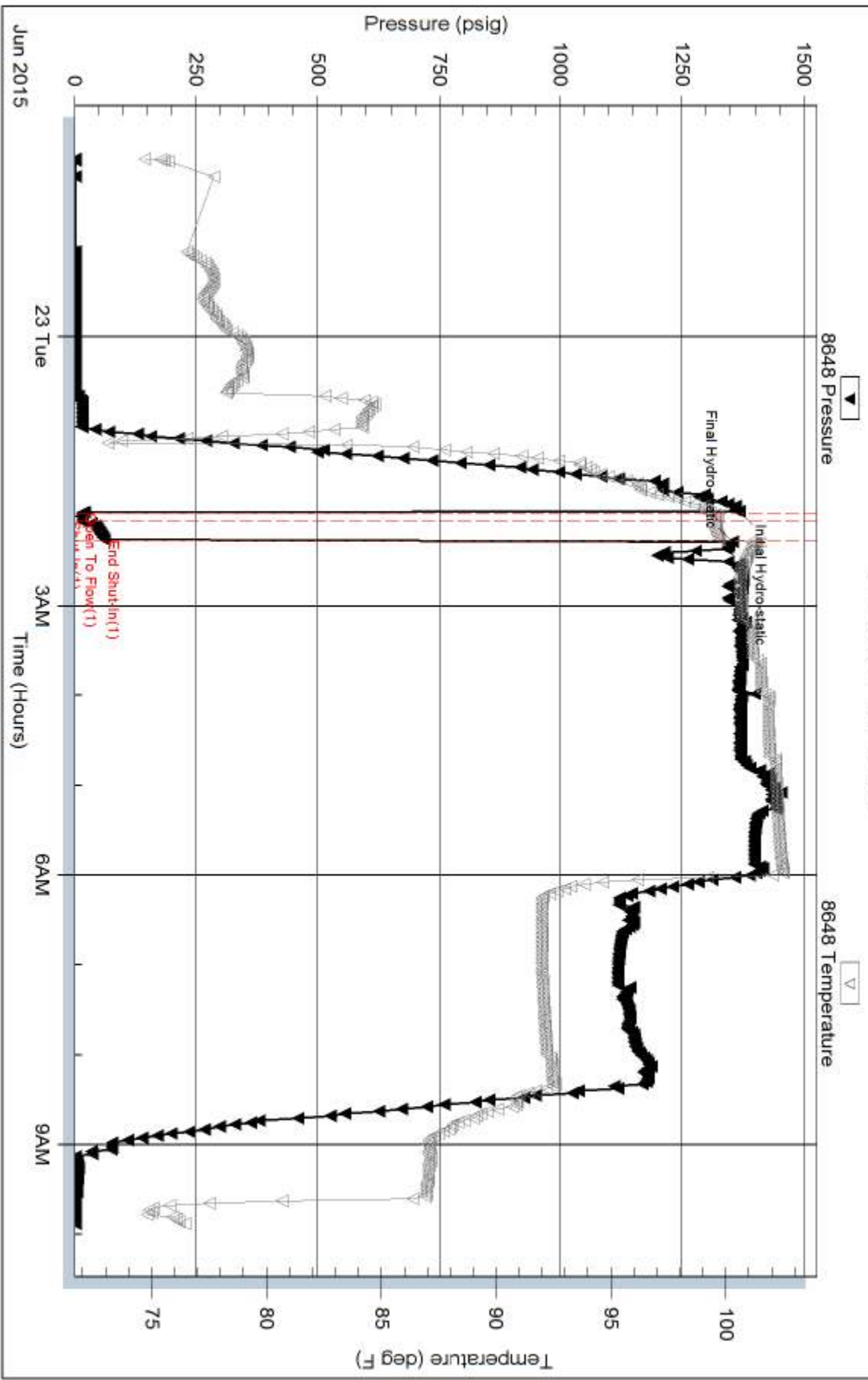
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Pulled tool, cedar hills started flow ing.

Pressure vs. Time



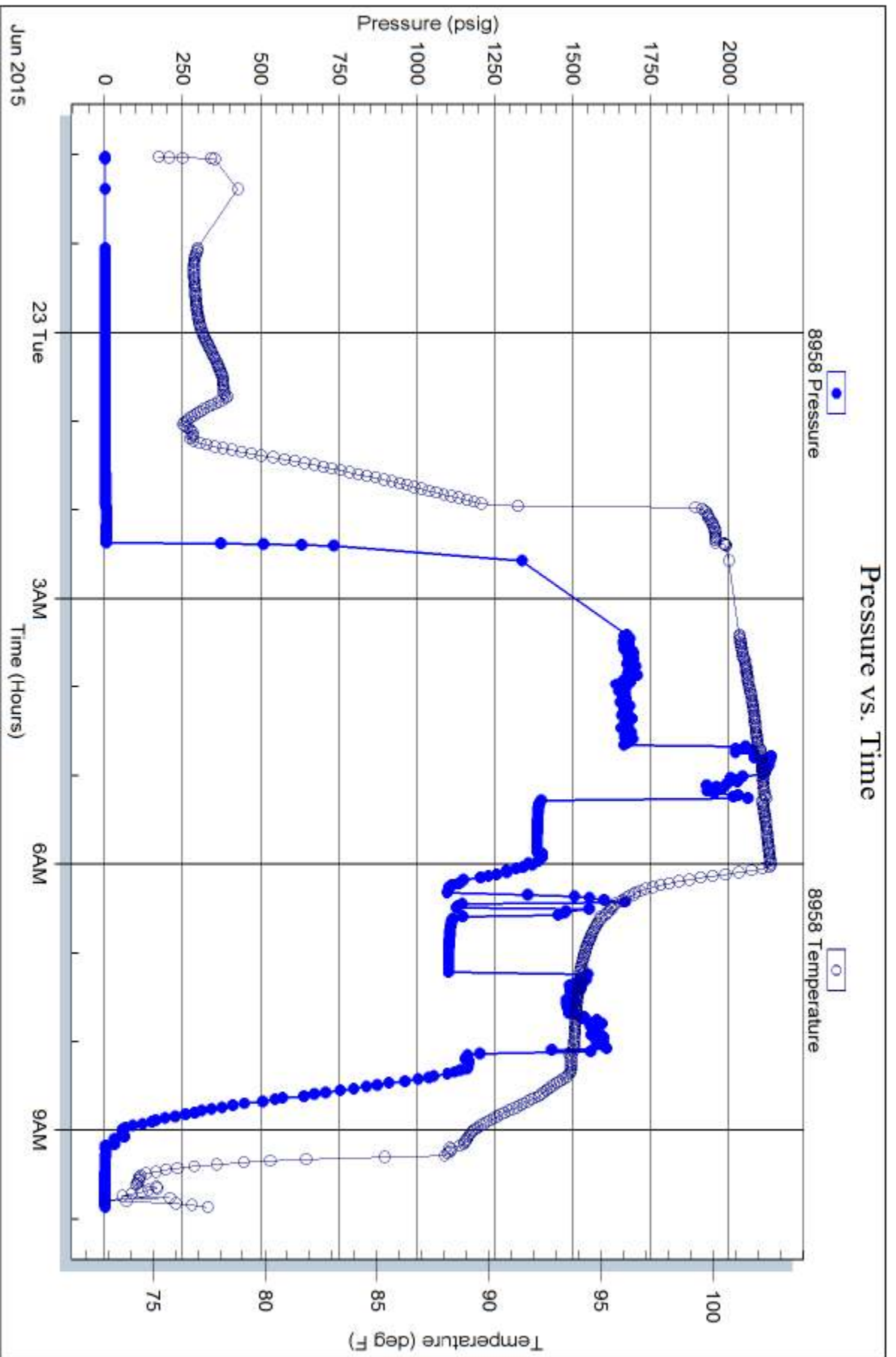
Serial #: 8958

Fluid

Samuel Gary Jr & Associates

Schlegel Trust 1-27

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 62718

Printed: 2015.06.23 @ 10:08:53



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

Well Name: SCHLEGEL TRUST 1-27
Well Id:
Location: SEC. 27-T16S-R16W
License Number: 15-165-22111-0000
Spud Date: JUN. 19, 2015
Surface Coordinates: 980 FSL/ 1960 FWL

Region: WILDCAT
Drilling Completed: JUN. 25, 2015

Bottom Hole
Coordinates:
Ground Elevation (ft): 1931' K.B. Elevation (ft): 1939'
Logged Interval (ft): 2850' To: 3593' Total Depth (ft): 3593'
Formation: Lansing, Kansas City
Type of Drilling Fluid: Natural Chemical

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

OPERATOR

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

GEOLOGIST

Name: Schuyler Hedrick
Company: Earth Tech OGL, Inc.
Address: PO Box 683
Hooker, Okla. 73945
Off. 888-543-8378 Cell: 580-754-0231



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr & Associates

27-16s-16w Rush KS

1515 Wynkoop st. STE 700
Denver CO, 80202

Schlegel Trust 1-27

Job Ticket: 62718 **DST#: 1**

ATTN: Clayton Camozzi

Test Start: 2015.06.22 @ 22:01:00

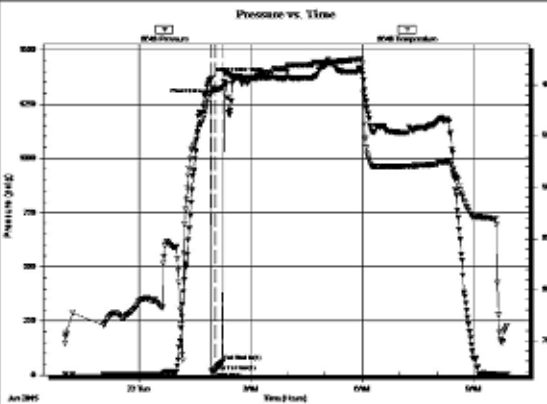
GENERAL INFORMATION:

Formation: **Topeka**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 01:57:30
 Time Test Ended: 09:52:45
 Interval: 2921.00 ft (KB) To 2952.00 ft (KB) (TVD)
 Total Depth: 2952.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Cody Bloedorn
 Unit No: 73
 Reference Elevations: 1939.00 ft (KB)
 1931.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8648 Inside

Press@RunDepth: 17.31 psig @ 2949.00 ft (KB)
 Start Date: 2015.06.22 End Date: 2015.06.23
 Start Time: 22:01:05 End Time: 09:52:45
 Capacity: 8000.00 psig
 Last Callb.: 2015.06.23
 Time On Btm: 2015.06.23 @ 01:56:30
 Time Off Btm: 2015.06.23 @ 02:16:45

TEST COMMENT: F- 8" blow
 SI- 4" return
 ****pulled tool 20 minutes into shut in. cedar hills started flow ing. dropped bar to pump mud into hole. No fluid recovery*****



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1367.67	99.18	Initial Hydro-static
1	15.98	99.30	Open To Flow (1)
7	17.31	99.52	Shut-in(1)
20	63.44	99.75	End Shut-in(1)
21	1354.30	101.11	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	Mud, w ith alot of cuttings.	0.91

Gas Rates

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

Trilobite Testing, Inc

Ref. No: 62718

Printed: 2015.06.25 @ 07:10:17

ROCK TYPES

- Anhy
- Bent
- Brec
- Cht
- Clyst
- Coal
- Congl
- Dol

- Gyp
- Igne
- Lmst
- Meta
- Mrlst
- Salt
- Shale
- Shcol

- Shgy
- Slst
- Ss
- Till
- Carb sh
- Dol
- Dtd
- Gry sh

- Sandylms
- Shale
- Slststn
- Shlyslts
- Sltys h
- Lms

ACCESSORIES

MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Breclfrag
- 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

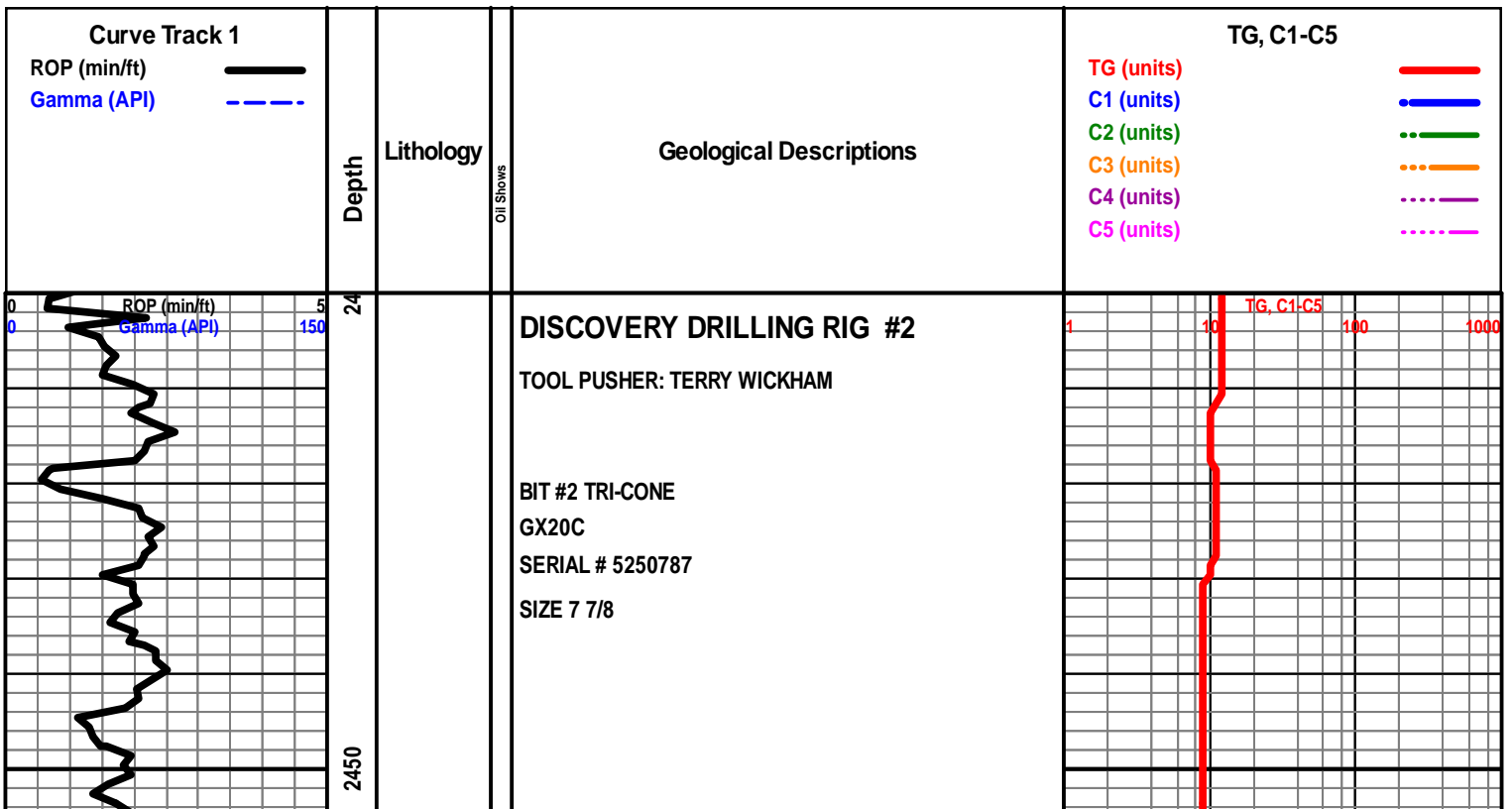
- Even
- Spotted
- Ques
- Dead
- Gas show

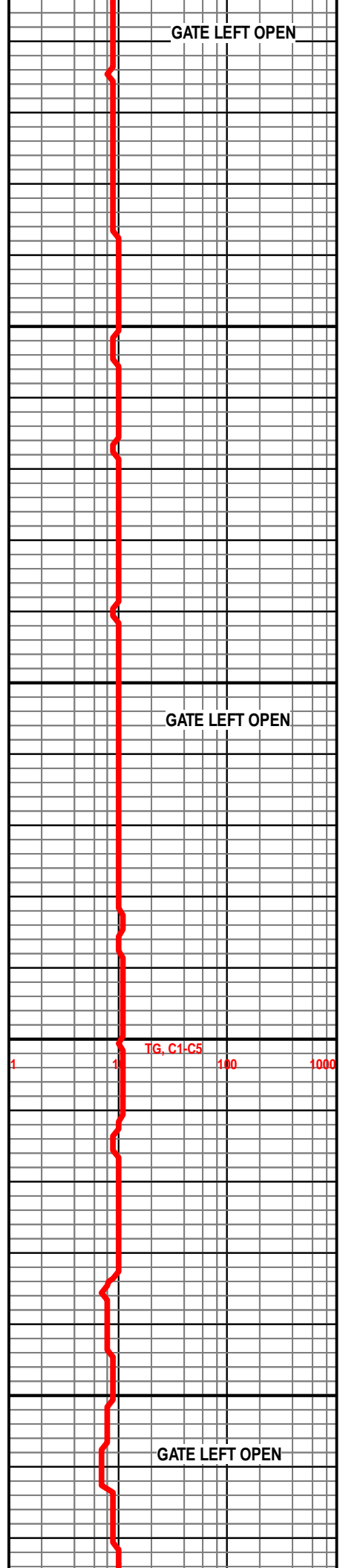
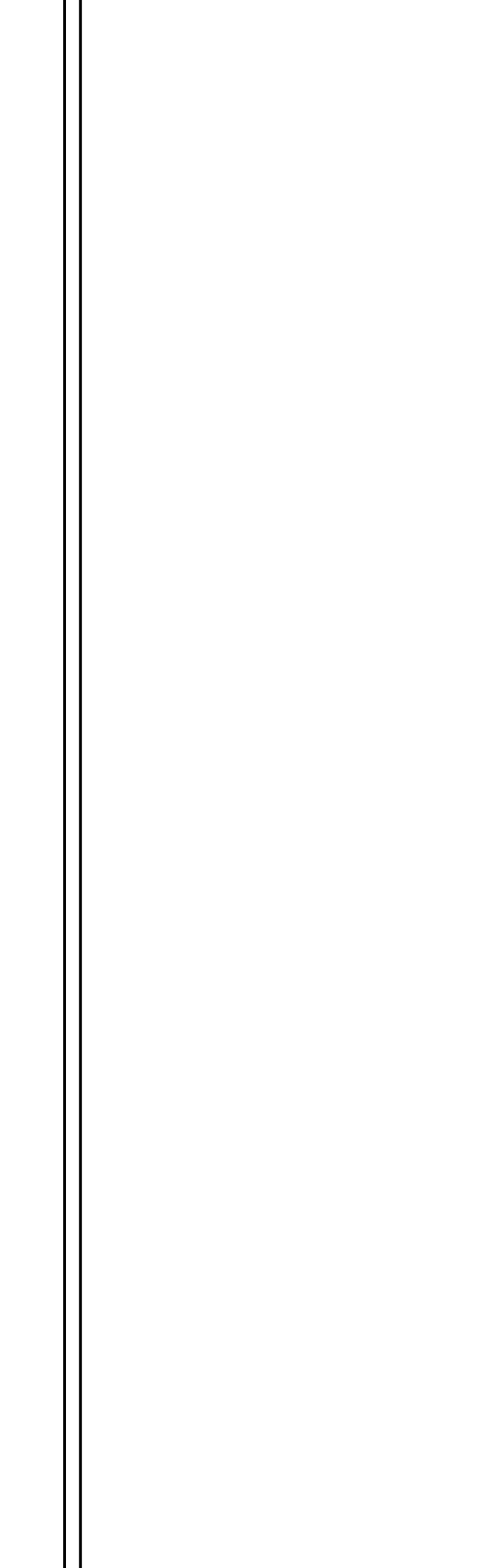
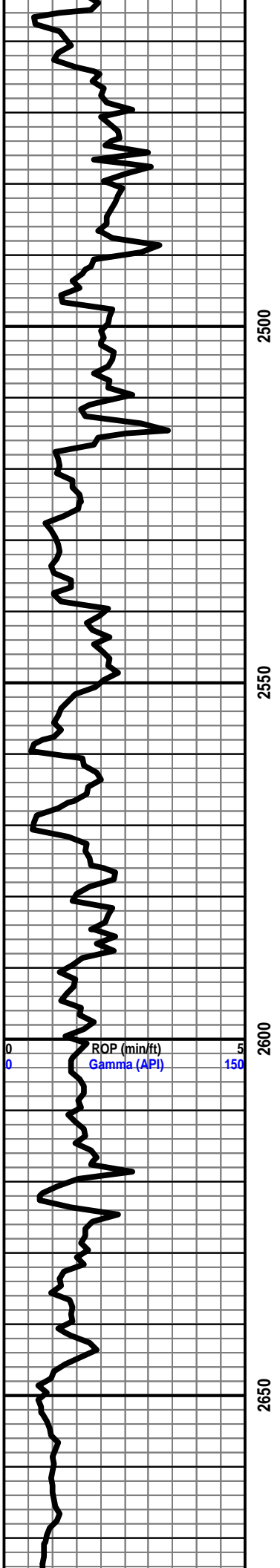
INTERVALS

- Core
- Dst
- Dst

EVENTS

- Rft
- Sidewall





BASE ROOT SHALE 2682' (-743')

MUD DISPLACEMENT COMPLETE @ 2769'

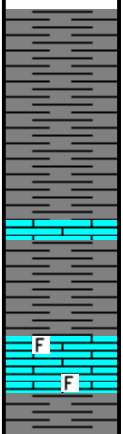
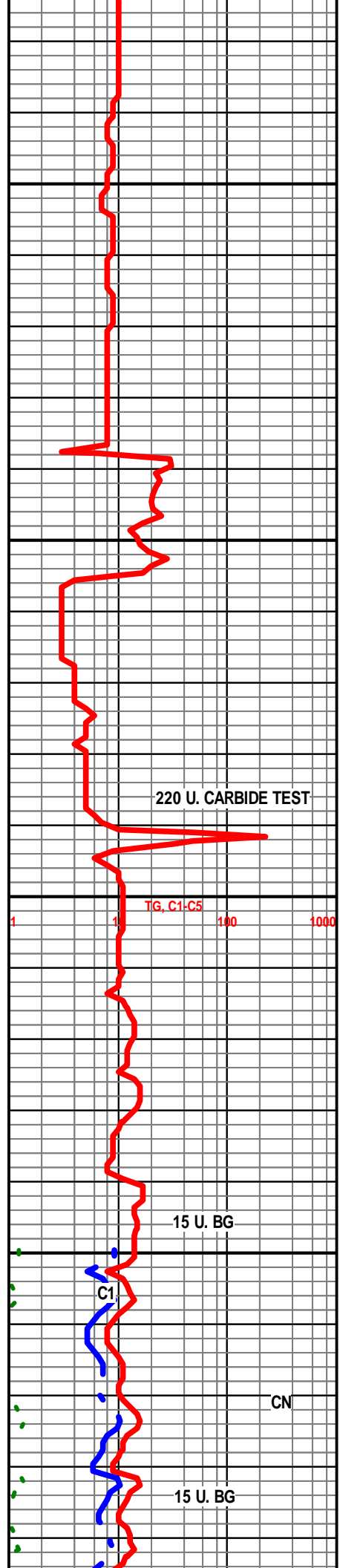
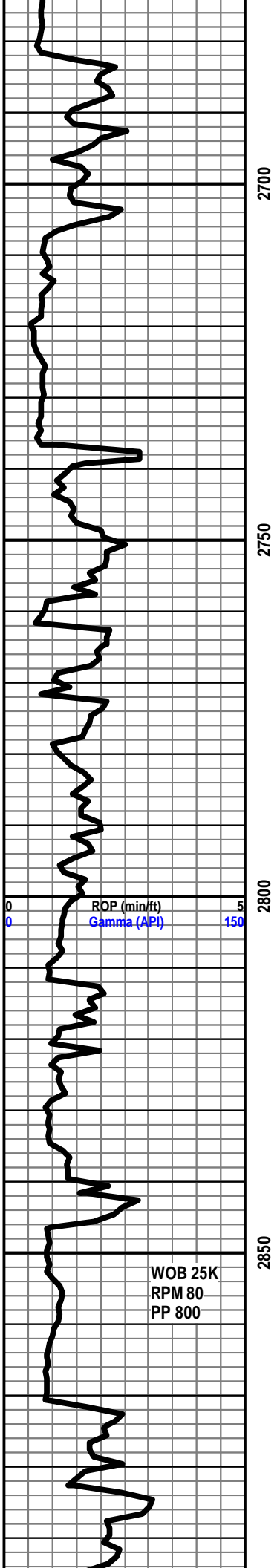
START 24 HR. MANNED UNIT 6/22/15

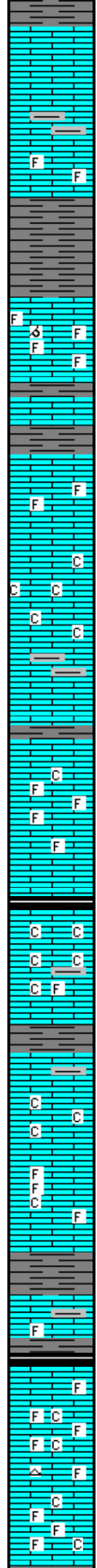
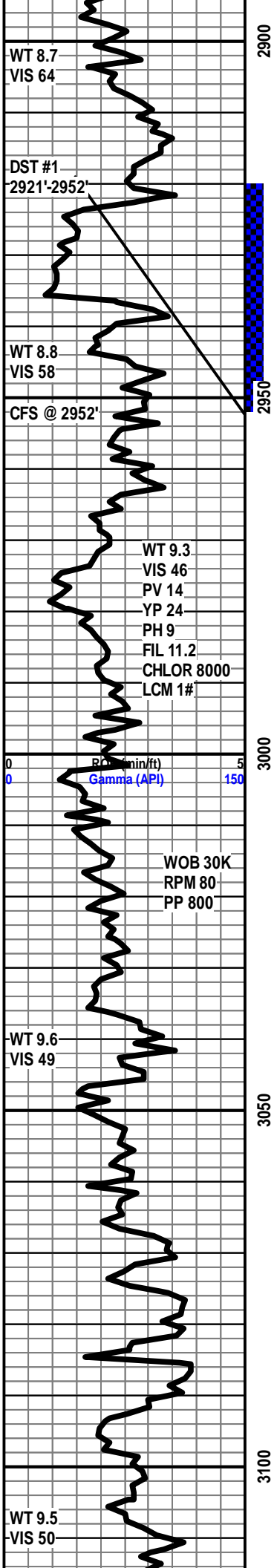
SH- GY TO MD GY, SFT TO V GMMY, SMTH TXT

HOWARD 2871' (-932')

SH- GY TO MD GY, FRM TO SFT, BLCKY, GRNY TXT, TR IMBD LS IP

LS- CRM TO LT TN TN, HD DNS TO BRTT IP, F/MD-XLN, RE-XLN, S-CHLKY, TR IMBD FOSS FRGS, TR IMBD GY SH, DLL YEL TO YEL FLO IN 10%. NO VIS POR. NO VIS CUT





OR SHOW

LS- TN TO LT TN GY IP, HD DNS TO BR TT IP, VF-XLN, S-SUCRO, SLI TR IMBD GY SH IP, V DLL YEL FLO IP, NO VIS POR, NO VIS CUT OR SHOW

LS- CRM TO LT TN, HD DNS TO BR TT, VF/F-XLN, S-SUCRO IP, RE-XLN, IMBD DK GY LMNTD SH THRU, SLI TR IMBD FOSS FRGS, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

TOPEKA 2937' (-998')

2941'-2942' LS- CRM TO LT TN (DUE TO LT TN OIL STN THRU), HD DNS TO V BR TT, MD-XLN, V TT SUCRO MTRX, HVY TR FREE FOSS THRU TRAY, OOLMOLD IP, YEL GLD FLO IN 40%, TR BR T YEL GLD FLO IP, PR TO FR VUG POR IN 5%, TR GD VUG POR IP, PR OOLMOLD POR IN 1%, NO FLSH CUT, V PR TO FR SLW STRM IN 30%, NO LCH ON DSH, NO OIL ODOR, (ONE ROCK)

LS- OFF WHT TO CRM LT TN, HD DNS TO BR TT IP, F/MD-XLN, S-CHLKY, TR IMBD FOSS FRGS IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- LT TN TO CRM WHT, HD DNS TO BR TT, MD-XLN, V CHLKY MTRX, HVY TR SFT TO GMMY WHT CHLK IN TRAY, SLI TR IMBD GY SH, DLL YEL FLO THRU, NO VIS POR, NO VIS CUT OR SHOW

LS- LT TN TO TN, HD DNS TO BR TT, MD/F-XLN, RE-XLN, S-SUCRO, HVU TR IMBD FOSS FRGS, TR FREE FOSS IN TRAY, SLI TR IMBD WHT CHLK, V DLL YEL FLO IP, NO VIS POR, NO VIS SHOW

LS- WHT TO OFF WHT CRM IP, HD DNS TO V BR TT, V CHLKY MTRX, MD-XLN, RE-XLN IP, TR IMBD DISS SH, SLI TR FREE FOSS IN TRAY, V DLL YEL FLO THRU, NO VIS POR, NO VIS SHOW

LECOMPTON 3041' (-1102')

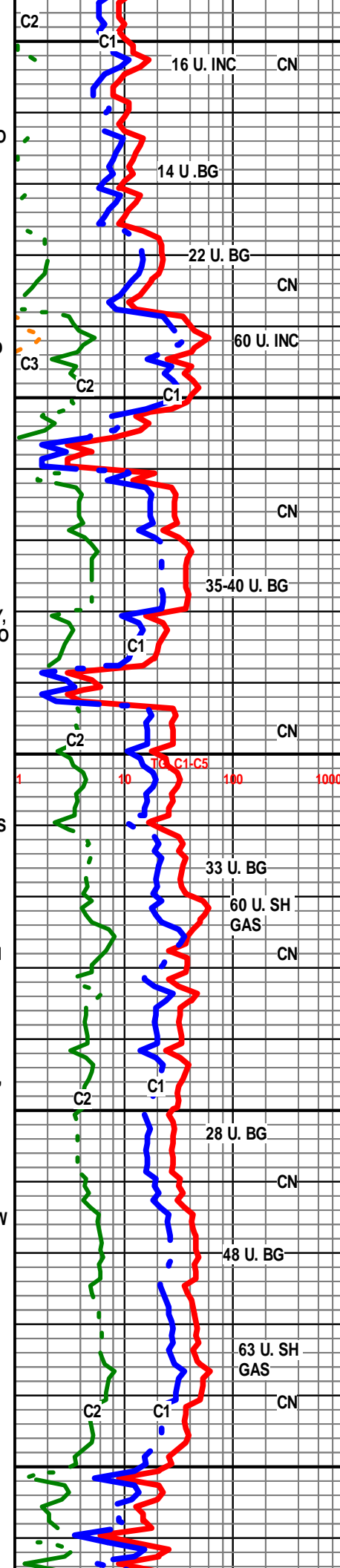
LS- OFF WHT TO CRM LT TN, HD DNS TO BR TT IP, F-XLN, MD-XLN IP, S-CHLKY, HVY TR SFT TO GMMY WHT CHLK IN TRAY, TR IMBD GY SH, NO VIS FLO, NO VIS POR, NO VIS SHOW

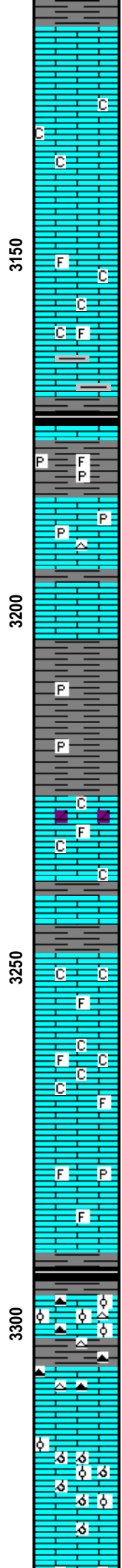
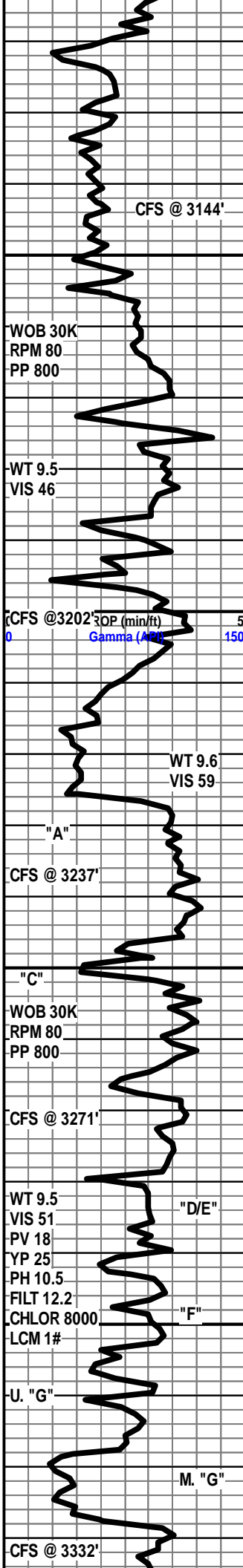
LS- CRM TO LT TN TN, HD DNS TO BR TT IP, F/MD-XLN, RE-XLN IP, S-SUCRO, HVY TR IMBD FOSS FRGS, SLI TR SFT WHT CHLK, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- OFF WHT TO CRM, HD DNS TO BR TT IP, VF/F-XLN, S-CHLKY, TR FREE FOSS, SLI TR IMBD GY SH, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- LT TN TO TN, HD DNS TO BR TT, MD-XLN, RE-XLN, S-SUCRO, HVY TR IMBD FOSS FRGS, TR SFT TO GMMY WHT CHLK, SLI TR WHT CHRT, DLL YEL FLO IP, NO VIS POR, NO VIS SHOW

LS- CRM TO OFF WHT LT TN IP, HD DNS TO BR TT, MD/F-XLN, S-CHLKY, ABTD IMBD MICRO FOSS, HVY TR SFT WHT CHLK, V DLL YEL FLO IP, NO VIS POR, NO VIS CUT OR SHOW





3121'-3123' LS- OFF WHT TO CRM (W/ DK TN TO BRN OIL STN IN 20%-30%), HD DNS TO BRTT IP, F-XLN, MD-XLN IP, S-CHLKY, IMBD S-ANG F-GRNS IP (ON ONE FACES OF ROCK), DLL YEL FLO IN 30%, TR YEL GLD FLO IP, POSS FRACT POR, V PR TO PR INTER-XLN POR IN 1%, FR FLSH CUT, PR TO FR SLW STRM IN 20%, NO LCH ON DSH, NO OIL ODOR

LS- CRM TO LT TN TN, HD DNS TO BRTT IP, MD/F-XLN, RE-XLN IP, S-CHLKY, IMBD FOSS FRGS, TR SFT TO GMMY WHT CHLK, SLI TR IMBD GY SH IP, V DLL YEL FLO IN 20%, NO VIS POR, NO VIS CUT OR SHOW

HEEBNER 3170' (-1231')

SH- GY TO MD GY, FRM TO SFT, HVY TR IMBD PYR, SLI TR FREE FOSS

3187'-3188' LS- WHT TO OFF WHT (W/ DK TN TO BRN OIL STN IN 30%-40%), HD DNS TO BRTT, MD/F-XLN, RE-XLN, S-CHLKY, IMBD LM GRNS IP, TR IMBD DISS PYR, SLI TR WHT CHRT, TR YEL GLD FLO IP, FR TO PR INTER-XLN POR IN 2%, PR TO TR FR MICRO VUG POR IN 2%, INST FLSH CUT, FR TO GD SLW STRM IN 50%, LT TN LCH ON DSH, NO OIL ODOR

DOUGLAS 3204' (-1265')

SH- MD GY TO DK GY GRN MOTT, FRM TO SFT, BLCKY, SMTH TO GRNY TXT IP, TR PYR CLSTRS

LANSING 3226' (-1287')

LS- LT TN TO TN CRM IP, HD DNS TO TR BRTT IP, F/VF-XLN, V TT SUCRO MTRX, TR DOLO IP, SLI TR IMBD FOSS FRGS, HVY TR SFT TO GMMY WHT CHLK IN TRAY, DLL YEL TO YEL FLO THRU, NO VIS POR, NO VIS CUT OR SHOW

LANSING "C" 3249' (-1310')

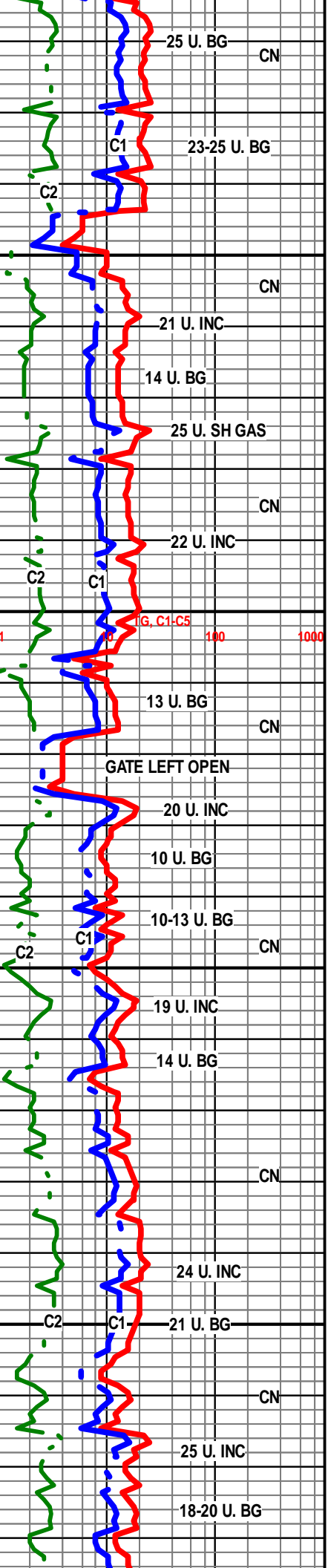
3249'-3251' LS- CRM TO LT TN TN (W/ DK TN TO BRN OIL STN IN 20%), HD DNS TO BRTT IP, MD-XLN, SUCRO MTRX, TR IMBD MICRO FOSS IP, SLI TR IMBD SFT WHT CHLK, YEL GLD FLO IN 20%, TR BRT YEL GLD FLO IP, V PR TO PR MICRO-VUG POR IN 3%, FR MICRO-VUG POR IN 1%, WK FLSH CUT, PR TO FR SLW STRM IN 30%, NO LCH ON DSH, NO OIL ODOR

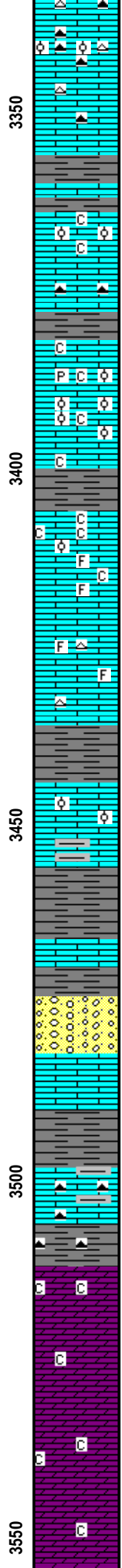
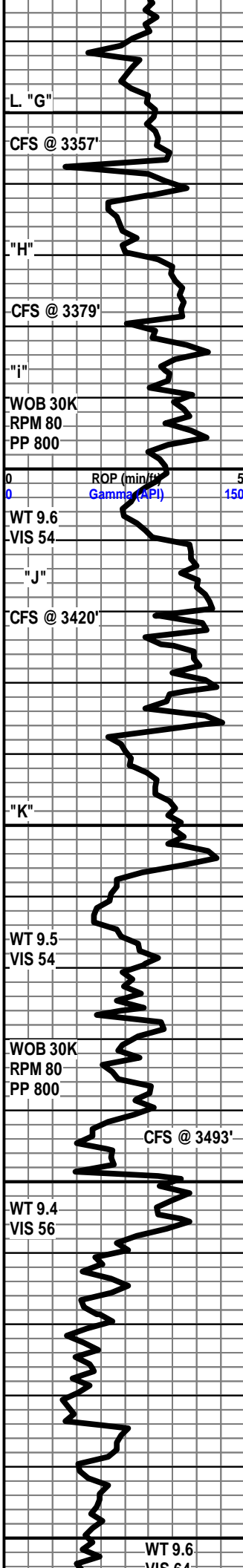
LS- TN TO LT TN, HD DNS TO BRTT IP, F/MD-XLN, RE-XLN IP, S-CHLKY, TR IMBD FOSS FRGS, TR IMBD PYR, NO VIS FLO, NO VIS POR, NO VIS SHOW

LANSING "F" 3296' (-1357')

3297'-3299' LS- WHT TO OFF WHT (W/ DK TN OIL STN IN 40%-50%), HD DNS TO BRTT, V RE-XLN MTRX, S-CHLKY, ABTD IMBD OOL THRU, HVY TR CLR TO WHT CHRT THRU TRAY, TR TN CHRT IN TRAY, YEL TO BRT YEL GLD FLO IN 50%, PR INTER-OOL POR IN 2%, FR INTER-OOL POR IN 1%, WK FLSH CUT, PR TO FR SLW STRM IN 30%, NO LCH ON DSH, LT OIL ODOR

LS- LT TN TO CRM, HD DNS TO BRTT, MD/F-XLN, V OOL-MOLD, TR IMBD OOL IP, DLL YEL FLO THRU, PR TO V PR OOL-MOLD POR IN 8%, FR OOL-MOLD POR IN 1%, NO VIS CUT OR SHOW





3340'-3342' LS- WHT TO OFF WHT (W/ DK TN TO BRN OIL STN IN 20%), HD DNS TO TR BRTT IP, VF/F-XLN, S-SUCRO IP, TR IMBD OOL IP, V SLI TR IMBD PYR, HVY TR WHT TO TN CHRT THRU TRAY, DLL YEL FLO IN 50%, BRT YEL GLD FLO IN 10%, PR TO FR INTER-OOL POR IN 2%, TR FR MICRO-VUG POR IP, WK FLSH CUT, FR TO GD SLW STRM IN 30%, NO LCH ON DSH, NO OIL ODOR

LANSING "H" 3364' (-1425')

3367'-3369' LS- OFF WHT TO CRM (W/ TN TO DK TN OIL STN SCAT IN 30%), HD DNS TO BRTT IP, MD/F-XLN, RE-XLN, S-CHLKY, IMBD OOL IP, IMBD SFT WHT CHLK, DLL YEL FLO IN 40%, TR YEL GLD FLO IP, V PR INTER-OOL POR IN 1%, TR MICRO-VUG POR IP, FR FLSH CUT, FR SLW STRM IN 30%, NO LCH ON DSH, NO OIL ODOR

3390'-3392' LS- WHT TO OFF WHT (W/ TN OIL STN IN 30%), V RE-XLN MTRX, S-CHLKY, ABDT IMBD OOL THRU, HVY TR SFT TO GMMY WHT CHLK THRU TRAY, IMBD PYR IP, DLL YEL FLO IN 20%, V PR TO PR INTER-OOL POR IN 1%, V WK FLSH CUT, PR SLW STRM IN 20%, NO LCH ON DSH, NO OIL ODOR

LS- LT TN TO TN, HD DNS TO TR BRTT IP, VF/F-XLN, S-CHLKY, IMBD FOSS FRGS, TR IMBD OOL IP, HVY TR SFT TO GMMY WHT CHLK IN TRAY, V DLL YEL FLO IN 20%, NO VIS POR, NO VIS CUT OR SHOW

LS- WHT TO OFF WHT CRM IP, HD DNS TO SLI TR BRTT IP, VF-XLN, TR RE-XLN IP, IMBD FOSS FRGS IP, TR WHT CHRT, DLL YEL FLO THRU, NO VSI POR, NO VIS CUT OR SHOW

LS- CRM TO OFF WHT, V HD DNS, VF-XLN, RE-XLN IP, TR IMBD OOL, TR IMBD RD SH, NO VIS FLO, NO VIS POR, NO VIS SHOW

BKC 3456' (-1517')

LS- WHT TO OFF WHT RD, HD DNS TO BRTT IP, MD/F-XLN, RE-XLN, IMBD OOL THRU, HVY TR IMBD RD SH, NO VIS FLO, NO VIS CUT OR SHOW

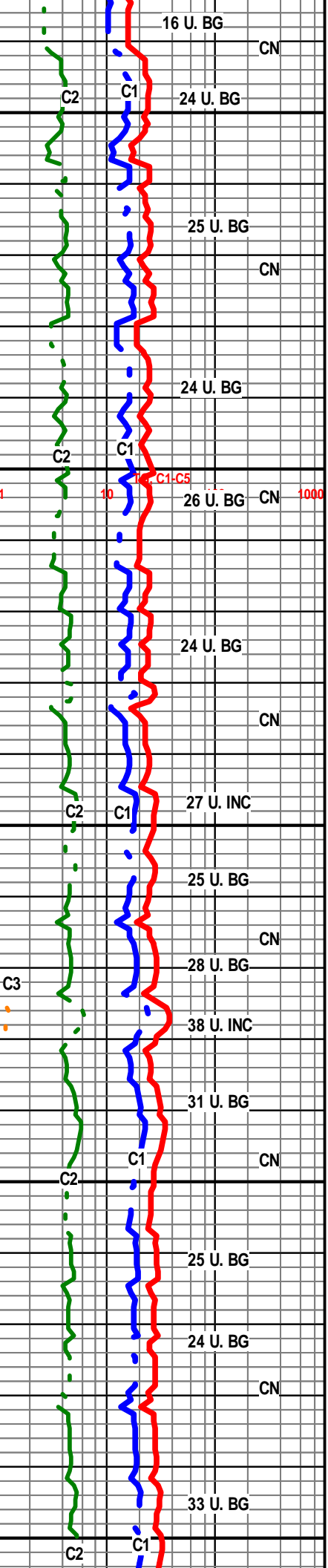
3474'-3478' CONGL- CLR TO FRSTY CRM ORNG (W/ BLK OIL STN IN 50%-60%), HD DNS TO TR BRTT IP, IMBD F/CRS-GRNS QRTZ, S-ANG TO S-RND GRNS, IMBD LS THRU, TR IMBD ORNG CHRT, V SLI TR GRN SH IP, YEL GLD FLO IN 20%, SPTTD BRT YEL GLD FLO IP, V PR TO PR INTER-GRN POR IN 2%, TR FR INTER-GRN POR IP, GD FLSH CUT, GD TO FR SLW STRM IN 50%, LT TN TO TN LCH ON DSH, NO OIL ODOR

ARBUCKLE 3513' (1574')

3515'-3518' DOLO- WHT TO TN (W/ BRN OIL STN IN 50%-60%), HD DNS TO BRTT IP, CRS SUCRO MTRX, V RE-XLN, IMBD S-ANG TO ANG F/CRS DOLO GRNS, TR IMBD CLR QRTZ GRNS, SLI TR IMBD SFT WHT CHLK, DLL YEL GLD FLO THRU, YEL GLD FLO IP, PR TO FR INTER-GRN POR IN 5%, INST FLSH CUT, EXCEL SLW STRM THRU, BRN LCH ON DSH, FR OIL ODOR, ABDT FREE FLOATING OIL IN SAMPLE TRAY

3525'-3527' DOLO- WHT TO OFF WHT (W/ BLK OIL STN IN 20%-30%), HD DNS TO BRTT IP, F-XLN, CRS SUCRO MTRX, S-CHLKY IP, IMBD S-ANG F/CRS DOLO GRNS THRU, TR IMBD SFT WHT CHLK, DLL YEL FLO IN 40%, PR TO SLI TR FR INTER-GRN POR IN 3%, WK FLSH CUT, PR SLW STRM IN 20%, NO LCH ON DSH, NO OIL ODOR

3530'-3540' DOLO- WHT TO CLR IP, HD DNS TO TR BRTT IP, F-XLN, V TT SUCRO MTRX, S-CHLKY, IMBD S-ANG TO S-RND F-GRNS, DOLO GRNS, TR IMBD CLR QRTZ GRNS, DLL YEL FLO THRU, PR INTER-GRN POR IN



VIS 64
PV 22
YP 30
PH 9.5
FILT 15.2
CHLOR 8800
LCM 2 1/2#

CFS @ 3593'

30,60

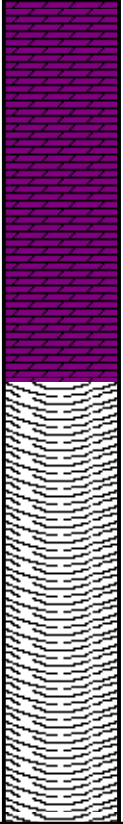
ROP (min/ft) 5
Gamma (API) 150

R.T.D. @ 3593'

SHORT TRIP 20 STANDS

C.T.C.H. 1.5 HRS

3600



2%, NO VIS CUT OR SHOW

3540'-3550' DOLO- WHT TO OFF WHT CLR IP, V HD DNS, VF/F-XLN, V TT
SUCRO MTRX, S-CHLKY, IMBD VF/F-GRNS, DOLO GRNS, SCAT IMBD
CLR RND F-GRNS QRTZ, V DLL YEL FLO THRU, NO VIS POR, NO VIS CUT
OR SHOW

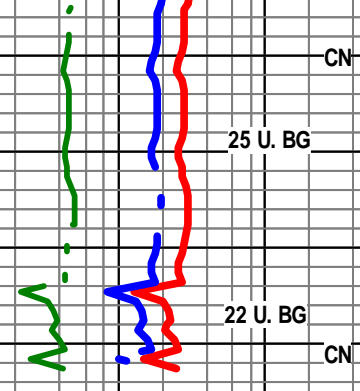
3550'-3560' DOLO- CRM TO OFF WHT, HD DNS TO BR TT, MD/F-XLN, TT
SUCRO MTRX, HVY TR IMBD RND F-GRNS QRTZ, SLI TR IMBD ORNG
CHRT, DLL YEL FLO IN 40%, NO VIS POR, NO VIS CUT OR SHOW

R.T.D. @ 5:00 A.M. 6/25/15

DROP SURVEY

T.O.F.L. @ 8:30 A.M. 6/25/15

WEATHERFORD/ LIBERAL, KS



R.T.D. @ 3593'

SAMPLES WILL BE DELIVERED TO KGS

THANK YOU FOR CHOOSING EARTH TECH

LOGGED BY: SCHUYLER HEDRICK