Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1
January 2018
Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 35681
Name: Pantera Energy Company
Address 1: 817 S POLK ST STE 201
Address 2:
City: AMARILLO State: TX Zip: 79101 + 3433
Contact Person: LAURA SAVAGE
Phone: (806) 376-6625
CONTRACTOR: License # 35763
Name: Quest Drilling Company, LLC
Wellsite Geologist: TIm Hedrick
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 #:

4/23/2023	4/29/2023	4/30/2023
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No.: 15-055-22585-00-00
Spot Description:
__ - __ - SE - SW Sec. 7 Twp. 26 S. R. 34 ☐ East ☑ West
538 Feet from ☐ North / ☑ South Line of Section
1802 Feet from ☐ East / ☑ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☐ SE ☑ SW
GPS Location: Lat: *(e.g. xx.xxxxx)*, Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Finney
Lease Name: CAMPBELL Well #: 5
Field Name: PLEASANT PRAIRIE
Producing Formation: NA
Elevation: Ground: 2978 Kelly Bushing: 2990
Total Vertical Depth: 5278 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 1828 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: 1850 ppm Fluid volume: 2600 bbls
Dewatering method used: Evaporated
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: 05/16/2023
☐ **Confidential Release Date:** 05/15/2025
☐ **Wireline Log Received** ☐ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** David Befort **Date:** 05/25/2023

Page Two

Operator Name: Pantera Energy Company Lease Name: CAMPBELL Well #: 5

Sec. 7 Twp. 26 S. R. 34 ☐ East ☑ West County: Finney

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 ☐ Yes ☑ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☐ Yes ☑ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☐ Yes ☑ No

Geologist Report / Mud Logs ☑ Yes ☐ No

List All E. Logs Run:

☐ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
LANSING	3898	2990 KB
MARMATON	4509	2990 KB
MORROW	4930	2990 KB
CHESTER	5017	2990 KB

CASING RECORD ☑ New ☐ 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
Surface	12.25	8.625	24	1838	CLASS A	420	2%SMS 2%CC

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
____ Perforate ____ Protect Casing ____ Plug Back TD ____ 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: ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other *(Explain)*			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity	

DISPOSITION OF GAS:	METHOD OF COMPLETION:	PRODUCTION INTERVAL: Top	Bottom
☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*	☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*		

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record *(Amount and Kind of Material Used)*
TUBING RECORD:	Size:	Set At:	Packer At:		

Mail to: KCC - Conservation Division, 266 N. Main, Suite 220, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Pantera Energy Company
Well Name	CAMPBELL 5
Doc ID	1713826

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	24	1838	CLASS A	420	2%SMS 2%CC

QUASAR ENERGY SERVICES, INC.
3288 FM 51
Gainesville, Texas 76240
Office: 940-612-3336
Fax: 940-612-3336 | qesi@qeserve.com

Form 185-2N.2

4/22/23
CEMENTING JOB LOG

CEMENTING JOB LOG

Company:	PANTERA ENERGY COMPANY			**Well Name:**	CAMPBELL #5		
Type Job:	SURFACE			**AFE #:**	0		
CASING DATA							
Size:	8 5/8	Grade:	J55	Weight:	24		
Casing Depths	Top: 42.18	Bottom:	1828.78				
Drill Pipe:	Size: 0	Weight:	0				
Tubing:	Size: 0	Weight:	0	Grade:	0	TD (ft):	1833
Open Hole:	Size: 12 1/4	T.D. (ft):	1833				
Perforations	From (ft): 0	To:	0	Packer Depth(ft):	0		

CEMENT DATA							
Spacer Type:							
Amt.		Sks Yield		ft $^3/_{sk}$		Density (PPG)	
LEAD:	CLASS A -- 2% CC, 2% GYP, 2% SMS, 1/4# CELLFLAKE					Excess	
Amt.	430	Sks Yield	2.92	ft $^3/_{sk}$		Density (PPG)	11.4
TAIL:	CLASS A -- 1% SMS, 2% CC, 1/4# CELLFLAKE					Excess	
Amt.	150	Sks Yield	1.57	ft $^3/_{sk}$		Density (PPG)	14
WATER:							
Lead:		gals/sk:	18	Tail:		gals/sk: 8	Total (bbls):
Pump Trucks Used:	110 -- DP4						
Bulk Equipment:	189 -- 660-21 -- 230 -- 660-24						
Disp. Fluid Type:	FRESH WATER		Amt. (Bbls.)	113.6	Weight (PPG):	8.33	
Mud Type:					Weight (PPG):		

COMPANY REPRESENTATIVE: _____ **CEMENTER:** KIRBY HARPER

TIME	PRESSURES PSI			FLUID PUMPED DATA		REMARKS
AM/PM	Casing	Tubing	ANNULUS	TOTAL	RATE	
1500						ON LOCATION -- SPOT AND RIG UP
1600						CASING ON BOTTOM -- BREAK CIRC.
1642	2000					PRESSURE TEST
1644	200			224	6	START MIXING 430 SK LEAD @ 11.4 PPG
1718	200			42	5	START MIXING 150 SK TAIL @ 14.0 PPG
1726						SHUT DOWN -- DROP TOP PLUG
1729	100			0	5	START DISPLACING WITH FRESH WATER
1751	450			104	2	SLOW RATE
1753	500-1100			114		BUMP PLUG
1754	1100-0					RELEASE PRESSURE -- FLOAT HELD
				90		CIRCULATE CEMENT TO THE PIT

QUASAR ENERGY SERVICES, INC.
3288 FM 51
Gainesville, Texas 76240
Office: 940-612-3336
Fax: 940-612-3336 | qesi@qeserve.com

Form 185-2N

2/20/23
CEMENTING JOB LOG

CEMENTING JOB LOG

Company:	PANTERA ENERGY COMPANY	**Well Name:**	CAMPBELL #5
Type Job:	CONDUCTOR	**AFE #:**	0

CASING DATA

Size:	13 3/8	Grade:	J-55	Weight:	54.5		
Casing Depths	Top: 0	Bottom:	0				
Drill Pipe:	Size: 0	Weight:	0				
Tubing:	Size: 0	Weight:	0	Grade:	0	TD (ft):	114
Open Hole:	Size: 17 1/2	T.D. (ft):	114				
Perforations	From (ft): 0	To:	0	Packer Depth(ft):	0		

CEMENT DATA

Spacer Type:							
Amt.		Sks Yield		ft $^3/_{sk}$		Density (PPG)	
LEAD:	CLASS A 1 % SMS, 2%CC, 1/4# CELLFLAKE					Excess	
Amt.	20	Sks Yield	2.94	ft $^3/_{sk}$	59	Density (PPG)	11.4
TAIL:	CLASS A 1% SMS, 2%CC, 1/4# CELLFLAKE					Excess	
Amt.	80	Sks Yield	1.57	ft $^3/_{sk}$	125	Density (PPG)	13.95
WATER:	FRESH						
Lead:	8.5	gals/sk:	18	Tail:	15.2	gals/sk: 8	Total (bbls): 23.8
Pump Trucks Used:	DP4						
Bulk Equipment:	660-24						
Disp. Fluid Type:	FRESH			Amt. (Bbls.)	14.5	Weight (PPG):	8.33
Mud Type:						Weight (PPG):	

COMPANY REPRESENTATIVE: _____ **CEMENTER:** JESSE PAXTON

TIME	PRESSURES PSI			FLUID PUMPED DATA		REMARKS
AM/PM	Casing	Tubing	ANNULUS	TOTAL	RATE	
1900						ON LOCATION - RIG UP - SAFETY MEETING
2335	100			10.5	4	PUMP LEAD CEMENT
2337	100			22.36	4	PUMP TAIL CEMENT
2344	120			14.5	4	PUMP DISPLACEMENT
2348						SHUT DOWN/ SHUT IN
						JOB COMPLETE THANK YOU!!!
						20 ft in Casing

QUASAR ENERGY SERVICES, INC.
3288 FM 51
Gainesville, Texas 76240
Office: 940-612-3336
Fax: 940-612-3336 | qesi@qeserve.com

Form 185-2N.2

4/30/23
CEMENTING JOB LOG

CEMENTING JOB LOG

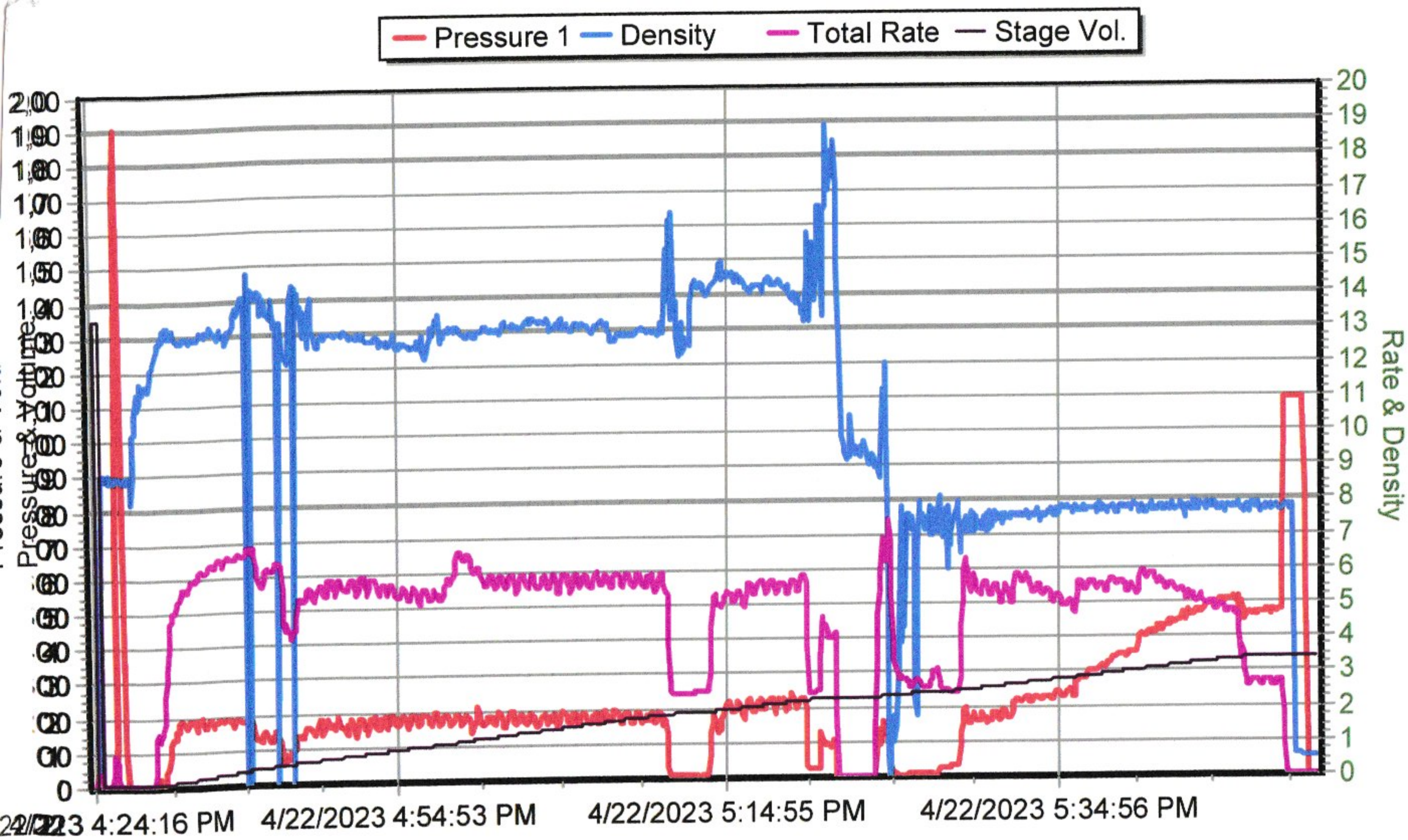
Company:	Pantera Energy Company			**Well Name:**	Campbell #5		
Type Job:	PLUG/PTA			**AFE #:**			
CASING DATA							
Size:	8 5/8	Grade:		Weight:	24		
Casing Depths	Top:	Bottom:					
Drill Pipe:	Size: 4 1/2	Weight:		Plugs:	1860', 810', 60', Rat & Mouse		
Open Hole:	Size: 12 1/4	T.D. (ft):		Hole:			
CEMENT DATA							
Spacer Type:							
Amt.		Sks Yield	0	ft $^3/_{sk}$		Density (PPG)	
LEAD:						Excess	
Amt.		Sks Yield	0	ft $^3/_{sk}$		Density (PPG)	
TAIL:	Class A: 60/40/4					Excess	
Amt.	170	Sks Yield	255	ft $^3/_{sk}$	1.5	Density (PPG)	13.51
WATER:							
Lead:		gals/sk:		Tail:	170	gals/sk:	7.5	Total (bbls):	30.4
Pump Trucks Used:	04, DP03						
Bulk Equipment:	228, 660-20						
Disp. Fluid Type:	Mud	Amt. (Bbls.)	22.9, 8.0	Weight (PPG):	9.3		

COMPANY REPRESENTATIVE: _____ **CEMENTER:** Daniel Beck

TIME	PRESSURES PSI			FLUID PUMPED DATA		REMARKS
AM/PM	Casing	Tubing	ANNULUS	TOTAL	RATE	
16:30						ON LOCATION & SAFETY MEETING
16:50						RIG UP
17:37		300		13.3slurry	4.5	PUMP 50SX TAIL @ 13.5# / 1860'
17:40				22.9		DISPLACE W/ 22.9BBL
17:45						SHUTDOWN
18:25		200		13.3slurry	4.6	PUMP 50SX TAIL @ 13.5# / 810'
18:27				8.0		DISPLACE W/ 8.0BBL
18:29						SHUTDOWN
19:04				5.3slurry		PUMP 20SX TAIL @ 13.5# / 60'
19:06						CEMENT TO SURFACE
19:15						PLUG RAT & MOSUE W/ 50SX
						JOB COMPLETE

Company:	Pantera Energy Company		**Well Name:**	Campbell #5
Type Job:	PLUG/PTA		**AFE #:**	
Date:	4/30/2023	CEMENTING JOB LOG	QUASAR ENERGY SERVICES, INC. | 185-2	

PANTERA ENERGY COMPANY
CAMPBELL #5
8.625" SURFACE
04/22/2023



ONSITE GEOLOGICAL LABORATORIES
EARTH - TECH

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

Well Name:	CAMPBELL 5		
Well Id:			
Location:	Sec 7 T26S, R34W, Finney County, Kansas		
License Number:	15-055-22585	Region:	Pleasant Prairie
Spud Date:	April 20th,2023	Drilling Completed:	April 29th 2023
Surface Coordinates:	538' FSL & 1802' FWL		
Bottom Hole Coordinates:			
Ground Elevation (ft):	2978'	K.B. Elevation (ft):	2991'
Logged Interval (ft):	3700' To: 5278'	Total Depth (ft):	5278'
Formation:	Marmaton, Miss.		
Type of Drilling Fluid:	Natural Chemical		

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

OPERATOR

Company: Pantera Energy Co.
Address: 817 S. Polk St., Ste. 201
Amarillo Texas 79101
Mr. Phil Moore

GEOLOGIST

Name: Tim Hedrick/ Edwin H. Grieves
Company: Earth Tech OGL, Inc
Address: PO Box 683
Hooker, Okla 73945
580-754-0062

Daily Drilling Reports

4-24-2023- RIGGED UP AND RUNNING ON LOCATION
4-25-23 @ 12:20 AM @ 3700'
4-25-23 @ 3893 7AM BROKE DOWN
4-26-23 @ 3893' STUCK IN HOLE
4-27-23 @ 4097' DRILLING 204' IN 24 HOURS
4-28-23 @ 4559' DRILLING 462' IN 24 HRS
4-29-23 @ 5100' AT 7 AM DRILLING
4-29-23 @ 5278' RTD 6:25 PM
4-30-23 @ 7 AM LOGGING

Formation Tops

SAMPLE TOPS		E-LOG TOPS			
BASE HEEBNER	3851'-860'	3849' -858'			
TORONTO	3869' -878'	3866' -875'			
LANSING	3902' -911'	3898'-907'			
KANSAS CITY	4280' -1289'	4308'-1317'			
BKC	4431' -1440'	4456'-1465'			
MARMATON	4465' -1474'	4486'- 1495'			
PAWNEE	4550' -1559'	4591'-1600'			
FT.SCOTT	4583' -1592'	4629'-1638'			
CHEROKEE	4596' -1605'	4644'-1653'	ATOKA	4790' -1799'	4865'-1874'
MORROW	4920' -1929'	4930'-1939'			
ST. GEN.	5014' -2023'	5015'-2024'			
ST.LOUIS		5100'-2109'			
ST.LOUIS "B"	5169' -2178'	5171'-2180'			
ST,LOUIS "C"	5213' -2222'	5215'-2224'			
R.T.D.	5278'	5280'			

Bit/ Dev.

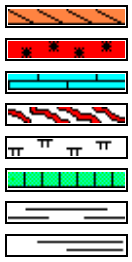
8 5/8" CASING SET TO 1828'
7 7/8" BIT #2. PDC 1828' CS516

DEV SRVY

1. 313' -3/4 DEG
2. 464' 1/4 DEG
3. 995' 3/4 DEG
4. 1833' 1 DEG
5. 2193' 1 DEG.
6. 2509' 1 DEG
7. 3014' 1 DEG
8. 4144' 1 DEG

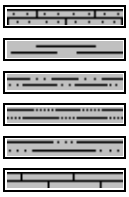
ROCK TYPES

Anhy
Bent
Brec
Cht
Clyst
Coal
Congl
Dol



Gyp
Igne
Lmst
Meta
Mrlst
Salt
Shale
Shcol

Shgy
Sltst
Ss
Till
Carb sh
Dol
Dtd
Gry sh



Sandylms
Shale
Sltstn
Shlyslts
Sltysh
Lms

ACCESSORIES

FOSSIL
- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom
- Fuss
- Oomold

MINERAL
- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Brecfrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff
- Chlorite
- Dol
- Sand
- Slty

STRINGER
- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg
- Carbsh
- Clystn
- Dol
- Grysh
- Gryslt
- Lms
- Sandylms
- Sh
- Sltstn

TEXTURE
- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest

OTHER SYMBOLS

POROSITY TYPE
- Earthy
- Fenest
- Fracture
- Inter
- Moldic
- Organic
- Pinpoint
- Vuggy

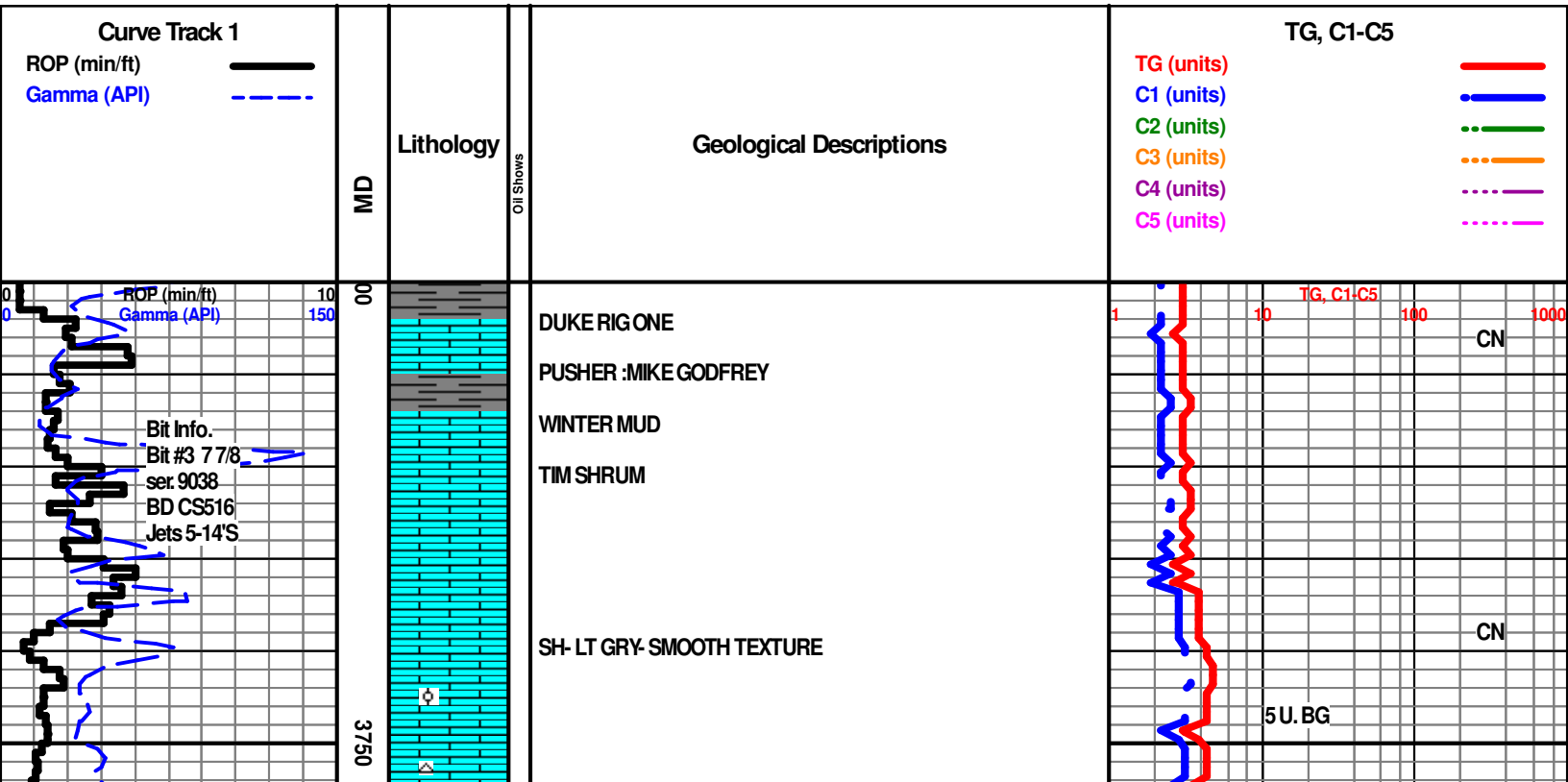
SORTING
- Well
- Moderate
- Poor

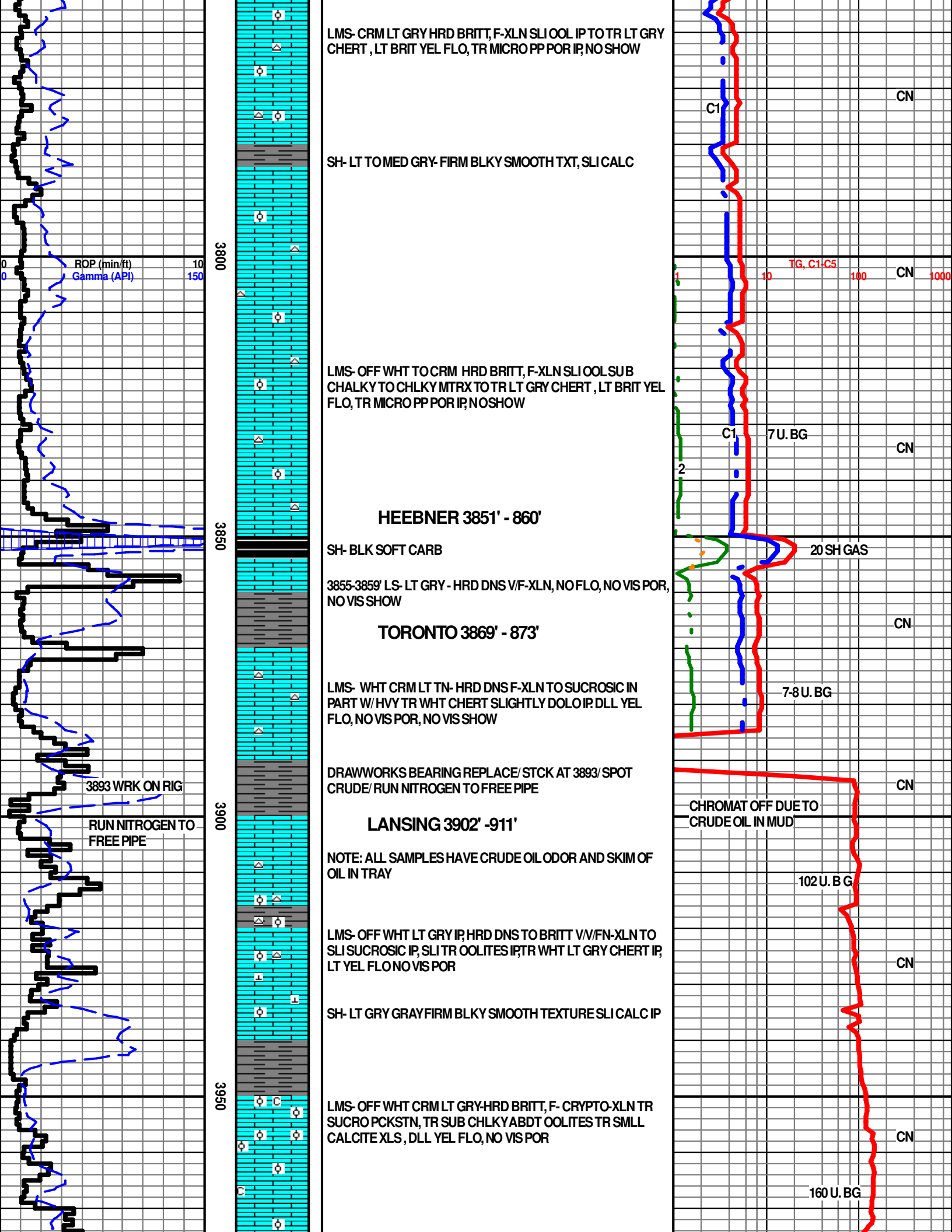
ROUNDING
- Rounded
- Subrnd
- Subang
- Angular

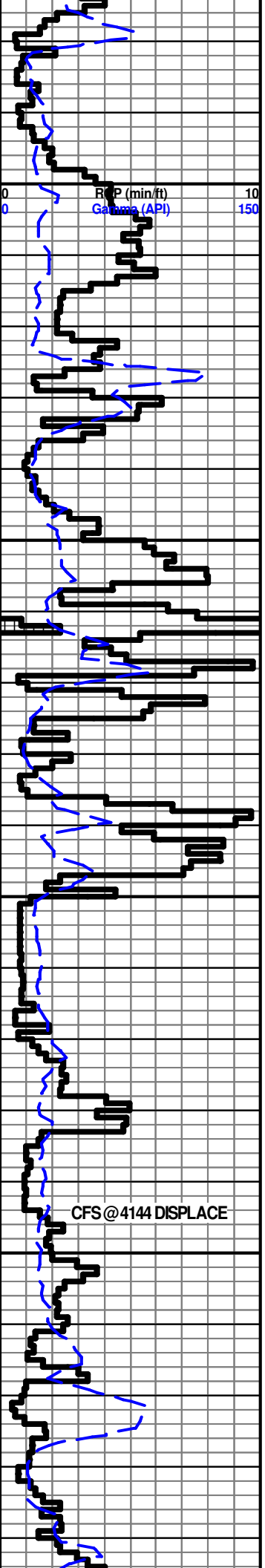
OIL SHOWS
- Even
- Spotted
- Ques
- Dead
- Gas show

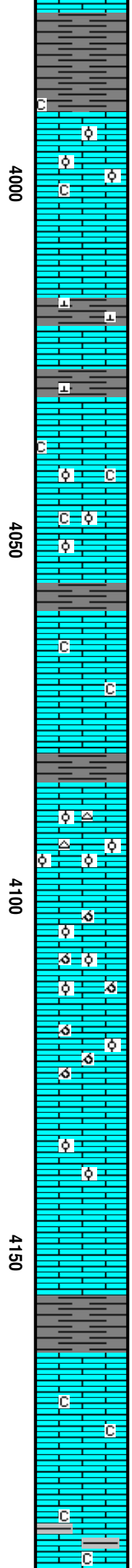
INTERVALS
- Core
- Dst
- Dst

EVENTS
- Rft
- Sidewall




ROP (min/ft)
Gamma (API)
3800
3850
3900
3950
3893 WRK ON RIG
RUN NITROGEN TO FREE PIPE
LMS- CRM LT GRY HRD BRITT, F-XLN SLI OOL IP TO TR LT GRY CHERT , LT BRIT YEL FLO, TR MICRO PP POR IP, NO SHOW
SH- LT TO MED GRY- FIRM BLKY SMOOTH TXT, SLI CALC
LMS- OFF WHT TO CRM HRD BRITT, F-XLN SLI OOL SU B CHALKY TO CHLKY MTRX TO TR LT GRY CHERT , LT BRIT YEL FLO, TR MICRO PP POR IP, N O SHOW
HEEBNER 3851' - 860'
SH- BLK SOFT CARB
3855-3859' LS- LT GRY - HRD DNS V/F-XLN, NO FLO, NO VIS POR, NO VIS SHOW
TORONTO 3869' - 873'
LMS- WHT CRM LT TN- HRD DNS F-XLN TO SUCROSIC IN PART W/ HVY TR WHT CHERT SLIGHTLY DOLO IP. DLL YEL FLO, NO VIS POR, NO VIS SHOW
DRAWWORKS BEARING REPLACE/ STCK AT 3893/ SPOT CRUDE/ RUN NITROGEN TO FREE PIPE
LANSING 3902' -911'
NOTE: ALL SAMPLES HAVE CRUDE OIL ODOR AND SKIM OF OIL IN TRAY
LMS- OFF WHT LT GRY IP, HRD DNS TO BRITT V/V/FN-XLN TO SLI SUCROSIC IP, SLI TR OOLITES IP,TR WHT LT GRY CHERT IP, LT YEL FLO NO VIS POR
SH- LT GRY GRAY FIRM BLKY SMOOTH TEXTURE SLI CALC IP
LMS- OFF WHT CRM LT GRY-HRD BRITT, F- CRYPTO-XLN TR SUCRO PCKSTN, TR SUB CHLKY ABDT OOLITES TR SMLL CALCITE XLS , DLL YEL FLO, NO VIS POR
C1
CN
TG, C1-C5
1
10
100
1000
7 U. BG
2
20 SH GAS
7-8 U. BG
CHROMAT OFF DUE TO CRUDE OIL IN MUD
102 U. B G
160 U. BG





SH- LT MED GRY- FIRM BLKY SMOOTH TEXTURE, CALC IP

LMS- OFF WHT CRM LT GRY -CRYPTO-XLN SUB SUCROSIC TO TR PCKSTN, SLIGHTLY OOLITIC IP TR SUB CHLKY, LT YEL FLO, NO VIS POR

LMS- LT TN TN -HRD DNS CRYPTO-V/V/FN-XLN, DLL YEL FLO, NO VIS POR

SH- MED TRACES DRK GRY -FIRM BLKY SMOOTH TEXTURE, SLI CALC

LMS-TAN GRYISH IP, CRYPTO-V/V/FN-XLN TR SUB CHLKY TR SUB SUCROSIC,PHANTOM OOLITIC TO OOLITIC IP,TR PCKSTN, DLL YEL FLO, NO VIS POR

LMS-CRM LT TAN -HRD TO BRITT V/V/FN-XLN TR SUB CHLKY TR SUB SUCROSIC, DLL YEL FLO, NO VIS POR

SH- LT MED GRY - FIRM BLKY SMOOTH TEXTURE CALC IP

4081'4112' LMS TAN CRYPTO TO V/V/FN-XLN TRS SUB SUCRO , PHANTOM OOLITES TO OOLITIC, SLI TRS WHT OPQUE CHERT,TR WHT CLEAR CALCITE XLS IP, DLL YEL FLO. A BDT PR FR TO GOOD MICRO PP TO INTER-XLN POR,

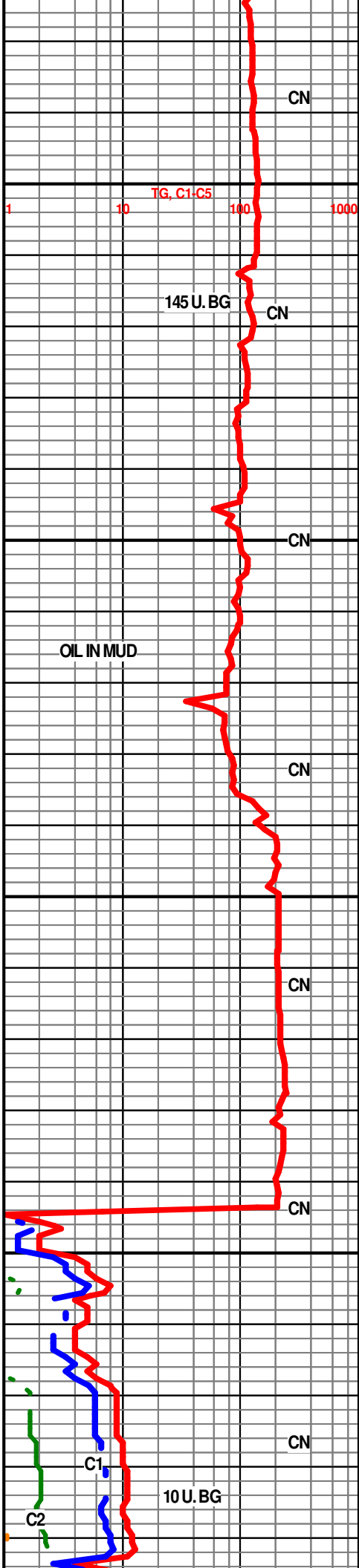
4112-4144' LMS- LT TAN TN, CRYPTO-V/V/FN-XLN, FRLY TO V/ OOLICASTIC & VERY OOLITIC,MATRIX SUB SUCRO TO V/ SUCRO, GLDN YEL FLO, ABDT PR FR GD TO EXCEL OOLICASTIC POR IN SUCRO MTRX, PR FR MICRO PP & INTER-XLN POR

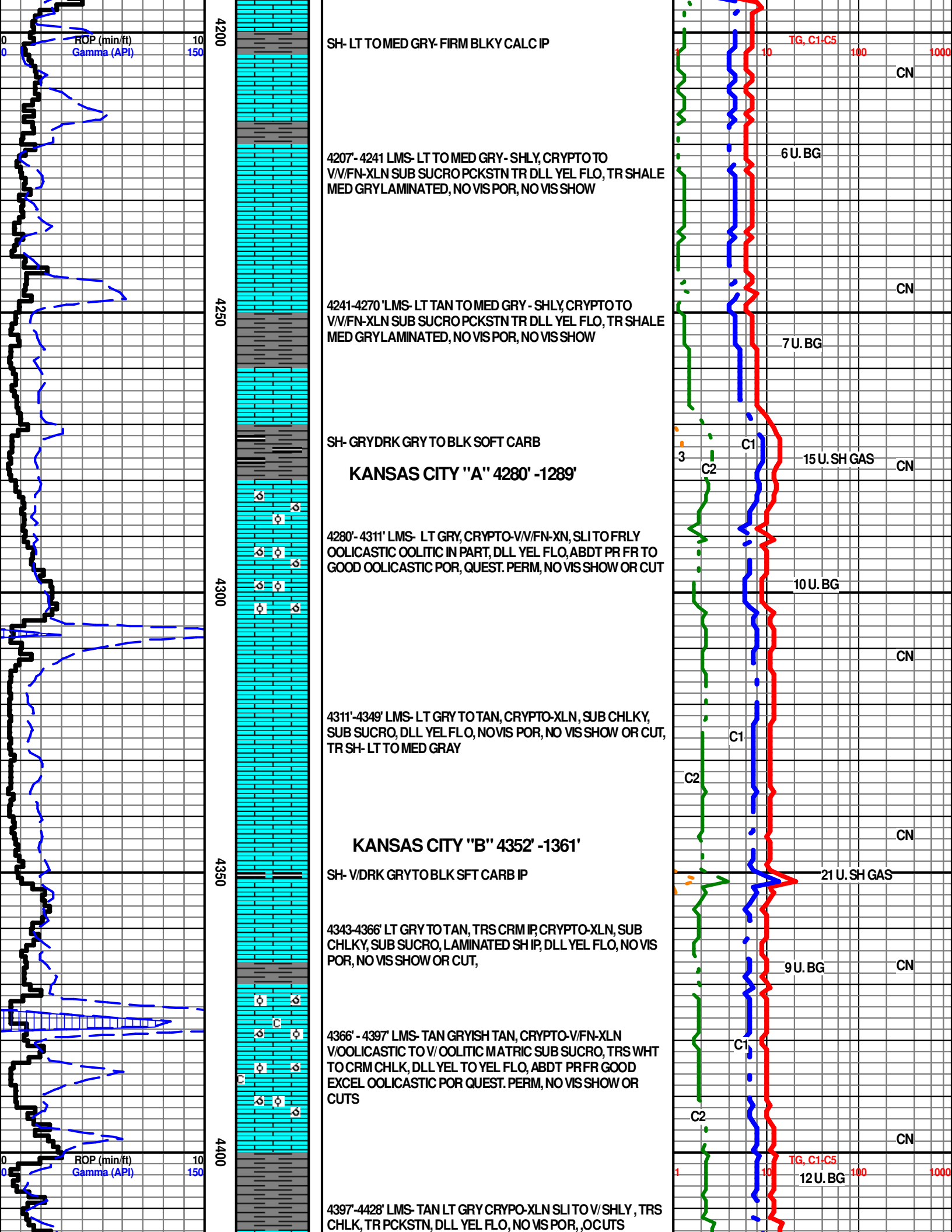
4144' DISPLACE MUD SYSTEM AND OIL OUT OF SYSTEM

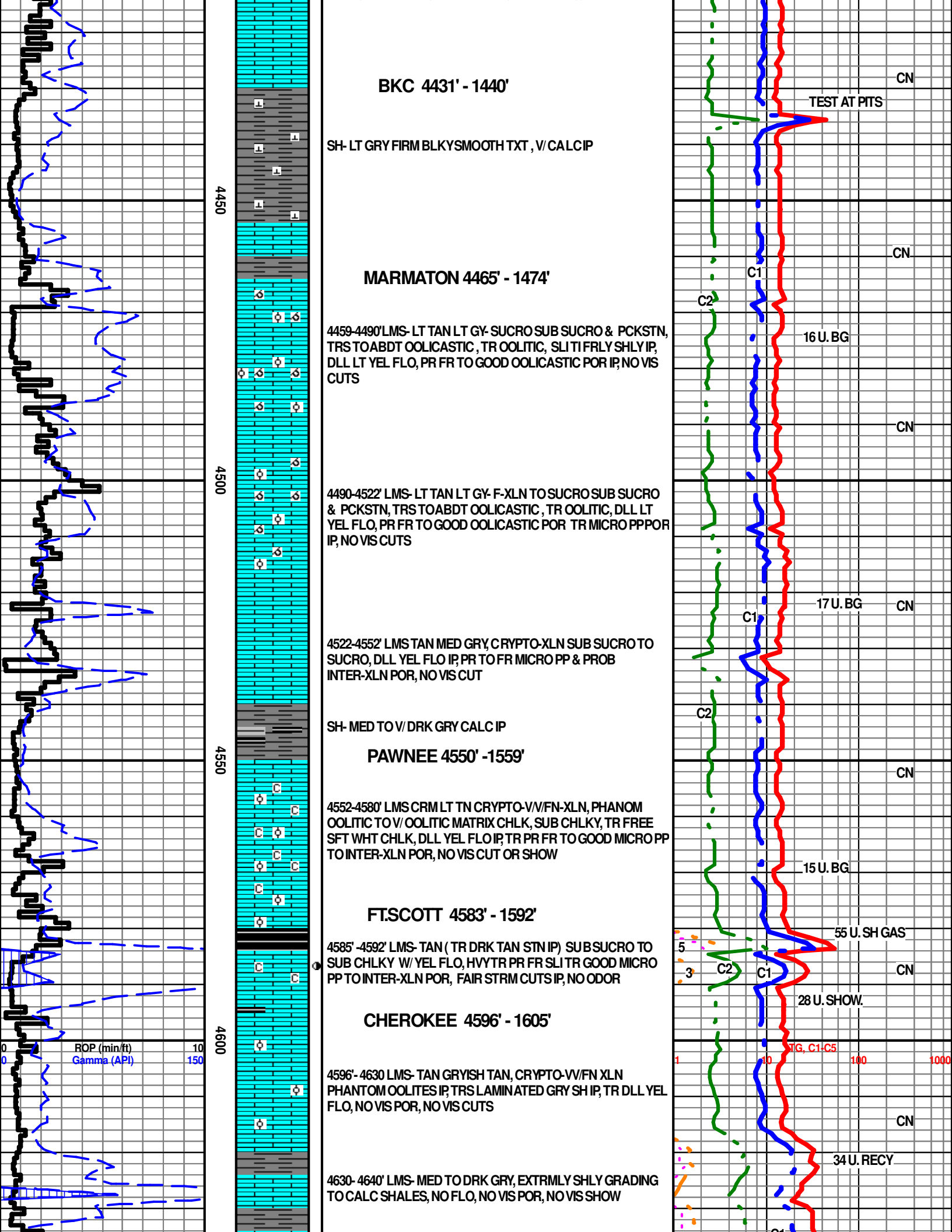
SH- MED TO TR DRK GRY - CALC IP

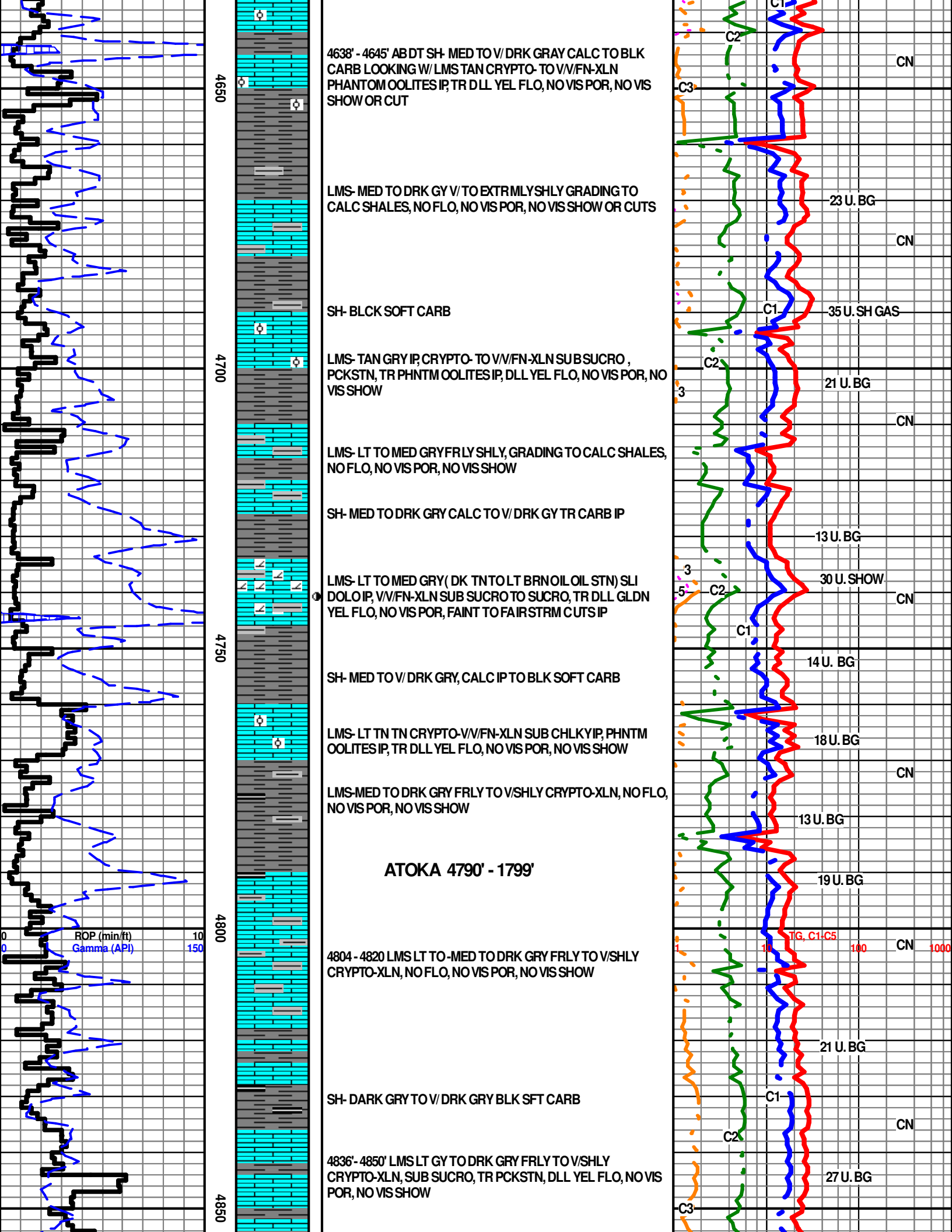
LANSING "F" 4156' -1165'

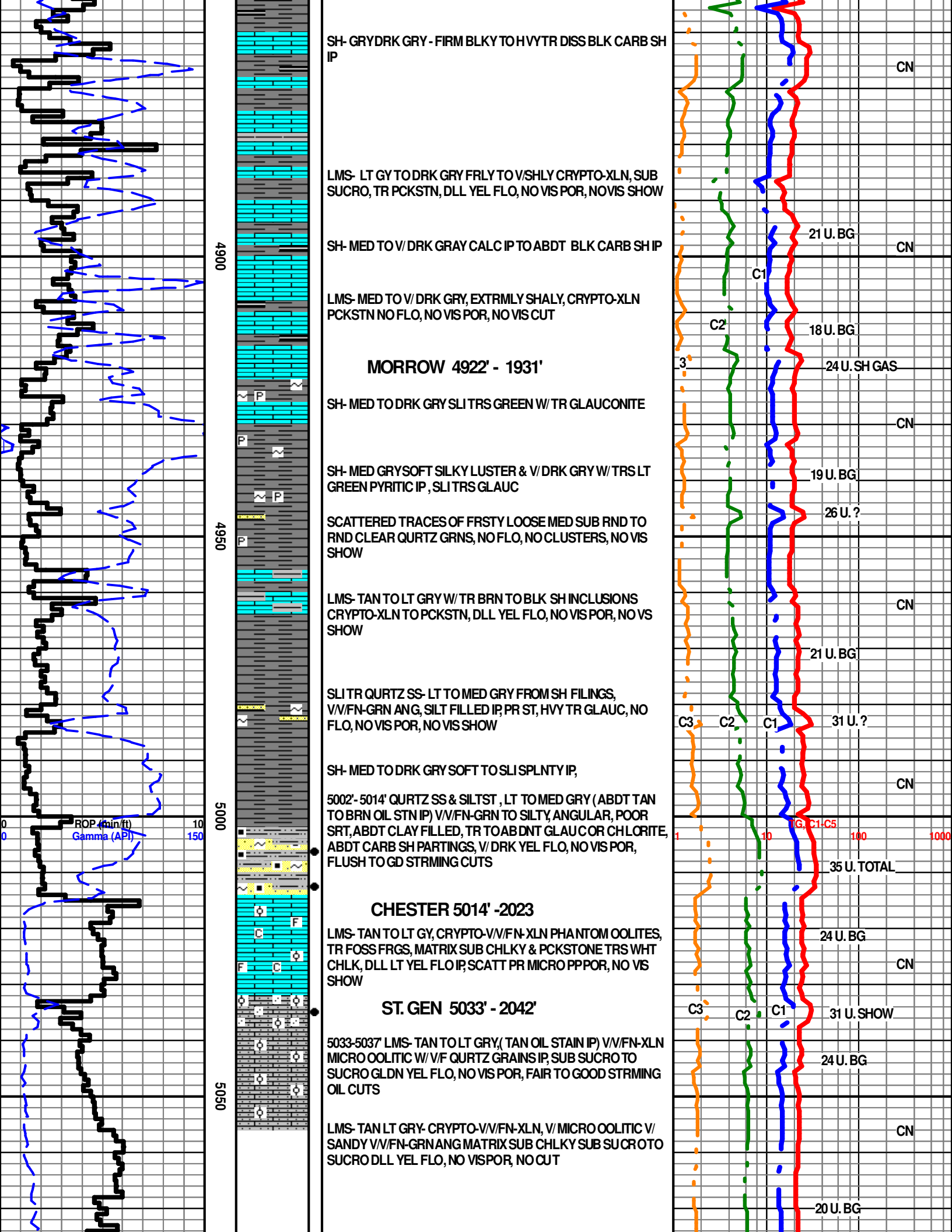
4176'- 4207-LMS- TAN LT GRY, CRYPTO-V/V/FN-XLN, SHALY IP, SUB CHALKY & OR SHALY, TR SUB SUCRO DLL YEL FLO, NO VIS POR, NO VIS SHOW OR CUT




ROP (min/ft)
Gamma (API)
0
10
0
150
4200
4250
4300
4350
4400
TG, C1-C5
1
10
100
1000
SH- LT TO MED GRY- FIRM BLKY CALC IP
CN
4207'- 4241 LMS- LT TO MED GRY - SHLY, CRYPTO TO V/V/FN-XLN SUB SUCRO PCKSTN TR DLL YEL FLO, TR SHALE MED GRY LAMINATED, NO VIS POR, NO VIS SHOW
6 U. BG
CN
4241-4270 'LMS- LT TAN TO MED GRY - SHLY, CRYPTO TO V/V/FN-XLN SUB SUCRO PCKSTN TR DLL YEL FLO, TR SHALE MED GRY LAMINATED, NO VIS POR, NO VIS SHOW
7 U. BG
SH- GRY DRK GRY TO BLK SOFT CARB
KANSAS CITY "A" 4280' -1289'
3
C1
C2
15 U. SH GAS
CN
4280'- 4311' LMS- LT GRY, CRYPTO-V/V/FN-XN, SLI TO FRLY OOLICASTIC OOLITIC IN PART, DLL YEL FLO, ABDT PR FR TO GOOD OOLICASTIC POR, QUEST. PERM, NO VIS SHOW OR CUT
10 U. BG
CN
4311'-4349' LMS- LT GRY TO TAN, CRYPTO-XLN, SUB CHLKY, SUB SUCRO, DLL YEL FLO, NO VIS POR, NO VIS SHOW OR CUT, TR SH- LT TO MED GRAY
C1
C2
CN
KANSAS CITY "B" 4352' -1361'
SH- V/DRK GRY TO BLK SFT CARB IP
21 U. SH GAS
4343-4366' LT GRY TO TAN, TRS CRM IP, CRYPTO-XLN, SUB CHLKY, SUB SUCRO, LAMINATED SH IP, DLL YEL FLO, NO VIS POR, NO VIS SHOW OR CUT,
9 U. BG
CN
4366' - 4397' LMS- TAN GRYISH TAN, CRYPTO-V/FN-XLN V/OOLICASTIC TO V/ OOLITIC MATRIC SUB SUCRO, TRS WHT TO CRM CHLK, DLL YEL TO YEL FLO, ABDT PR FR GOOD EXCEL OOLICASTIC POR QUEST. PERM, NO VIS SHOW OR CUTS
C1
C2
CN
ROP (min/ft)
Gamma (API)
0
10
0
150
TG, C1-C5
1
10
100
1000
12 U. BG
4397'-4428' LMS- TAN LT GRY CRYPO-XLN SLI TO V/ SHLY , TRS CHLK, TR PCKSTN, DLL YEL FLO, NO VIS POR, ,OC UTS


BKC 4431' - 1440'
SH- LT GRY FIRM BLKYSMOOTH TXT , V/ CALC IP
MARMATON 4465' - 1474'
4459-4490'LMS- LT TAN LT GY- SUCRO SUB SUCRO & PCKSTN, TRS TO ABDT OOLICASTIC , TR OOLITIC, SLI TI FRLY SHLY IP, DLL LT YEL FLO, PR FR TO GOOD OOLICASTIC POR IP, NO VIS CUTS
4490-4522' LMS- LT TAN LT GY- F-XLN TO SUCRO SUB SUCRO & PCKSTN, TRS TO ABDT OOLICASTIC , TR OOLITIC, DLL LT YEL FLO, PR FR TO GOOD OOLICASTIC POR TR MICRO PP POR IP, NO VIS CUTS
4522-4552' LMS TAN MED GRY, CRYPTO-XLN SUB SUCRO TO SUCRO, DLL YEL FLO IP, PR TO FR MICRO PP & PROB INTER-XLN POR, NO VIS CUT
SH- MED TO V/ DRK GRY CALC IP
PAWNEE 4550' -1559'
4552-4580' LMS CRM LT TN CRYPTO-V/V/FN-XLN, PHANOM OOLITIC TO V/ OOLITIC MATRIX CHLK, SUB CHLKY, TR FREE SFT WHT CHLK, DLL YEL FLO IP, TR PR FR TO GOOD MICRO PP TO INTER-XLN POR, NO VIS CUT OR SHOW
FT.SCOTT 4583' - 1592'
4585' -4592' LMS- TAN (TR DRK TAN STN IP) SUB SUCRO TO SUB CHLKY W/ YEL FLO, HVY TR PR FR SLI TR GOOD MICRO PP TO INTER-XLN POR, FAIR STRM CUTS IP, NO ODOR
CHEROKEE 4596' - 1605'
4596'- 4630 LMS- TAN GRYISH TAN, CRYPTO-VV/FN XLN PHANTOM OOLITES IP, TRS LAMINATED GRY SH IP, TR DLL YEL FLO, NO VIS POR, NO VIS CUTS
4630- 4640' LMS- MED TO DRK GRY, EXTRMLY SHLY GRADING TO CALC SHALES, NO FLO, NO VIS POR, NO VIS SHOW
4450
4500
4550
4600
ROP (min/ft)
Gamma (API)
0
10
150
CN
TEST AT PITS
C1
C2
16 U. BG
17 U. BG
15 U. BG
55 U. SH GAS
28 U. SHOW.
34 U. RECY
TG, C1-C5
1
10
100
1000
5
3


4650
4700
4750
4800
4850
ROP (min/ft) 10
Gamma (API) 150
4638' - 4645' AB DT SH- MED TO V/ DRK GRAY CALC TO BLK CARB LOOKING W/ LMS TAN CRYPTO- TO V/V/FN-XLN PHANTOM OOLITES IP, TR DLL YEL FLO, NO VIS POR, NO VIS SHOW OR CUT
LMS- MED TO DRK GY V/ TO EXTR MLY SHLY GRADING TO CALC SHALES, NO FLO, NO VIS POR, NO VIS SHOW OR CUTS
SH- BLCK SOFT CARB
LMS- TAN GRY IP, CRYPTO- TO V/V/FN-XLN SUB SUCRO , PCKSTN, TR PHNTM OOLITES IP, DLL YEL FLO, NO VIS POR, NO VIS SHOW
LMS- LT TO MED GRY FR LY SHLY, GRADING TO CALC SHALES, NO FLO, NO VIS POR, NO VIS SHOW
SH- MED TO DRK GRY CALC TO V/ DRK GY TR CARB IP
LMS- LT TO MED GRY(DK TN TO LT BRN OIL OIL STN) SLI DOLO IP, V/V/FN-XLN SUB SUCRO TO SUCRO, TR DLL GLDN YEL FLO, NO VIS POR, FAINT TO FAIR STRM CUTS IP
SH- MED TO V/ DRK GRY, CALC IP TO BLK SOFT CARB
LMS- LT TN TN CRYPTO-V/V/FN-XLN SUB CHLKY IP, PHNTM OOLITES IP, TR DLL YEL FLO, NO VIS POR, NO VIS SHOW
LMS-MED TO DRK GRY FRLY TO V/SHLY CRYPTO-XLN, NO FLO, NO VIS POR, NO VIS SHOW
ATOKA 4790' - 1799'
4804 - 4820 LMS LT TO -MED TO DRK GRY FRLY TO V/SHLY CRYPTO-XLN, NO FLO, NO VIS POR, NO VIS SHOW
SH- DARK GRY TO V/ DRK GRY BLK SFT CARB
4836' - 4850' LMS LT GY TO DRK GRY FRLY TO V/SHLY CRYPTO-XLN, SUB SUCRO, TR PCKSTN, DLL YEL FLO, NO VIS POR, NO VIS SHOW
C1
C2
C3
CN
23 U. BG
35 U. SH GAS
21 U. BG
13 U. BG
30 U. SHOW
14 U. BG
18 U. BG
19 U. BG
TG, C1-C5
1
10
100
1000
27 U. BG



SH- GRY DRK GRY - FIRM BLKY TO H VY TR DISS BLK CARB SH IP

LMS- LT GY TO DRK GRY FRLY TO V/SHLY CRYPTO-XLN, SUB SUCRO, TR PCKSTN, DLL YEL FLO, NO VIS POR, NO VIS SHOW

SH- MED TO V/ DRK GRAY CALC IP TO ABDT BLK CARB SH IP

LMS- MED TO V/ DRK GRY, EXTRMLY SHALY, CRYPTO-XLN PCKSTN NO FLO, NO VIS POR, NO VIS CUT

MORROW 4922' - 1931'

SH- MED TO DRK GRY SLI TRS GREEN W/ TR GLAUCONITE

SH- MED GRY SOFT SILKY LUSTER & V/ DRK GRY W/ TRS LT GREEN PYRITIC IP , SLI TRS GLAUC

SCATTERED TRACES OF FRSTY LOOSE MED SUB RND TO RND CLEAR QURTZ GRNS, NO FLO, NO CLUSTERS, NO VIS SHOW

LMS- TAN TO LT GRY W/ TR BRN TO BLK SH INCLUSIONS CRYPTO-XLN TO PCKSTN, DLL YEL FLO, NO VIS POR, NO VS SHOW

SLI TR QURTZ SS- LT TO MED GRY FROM SH FILINGS, V/V/FN-GRN ANG, SILT FILLED IP, PR ST, HVY TR GLAUC, NO FLO, NO VIS POR, NO VIS SHOW

SH- MED TO DRK GRY SOFT TO SLI SPLNTY IP,

5002'- 5014' QURTZ SS & SILTST , LT TO MED GRY (ABDT TAN TO BRN OIL STN IP) V/V/FN-GRN TO SILTY, ANGULAR, POOR SRT, ABDT CLAY FILLED, TR TO AB DNT GLAU C OR CH LORITE, ABDT CARB SH PARTINGS, V/ DRK YEL FLO, NO VIS POR, FLUSH TO GD STRMING CUTS

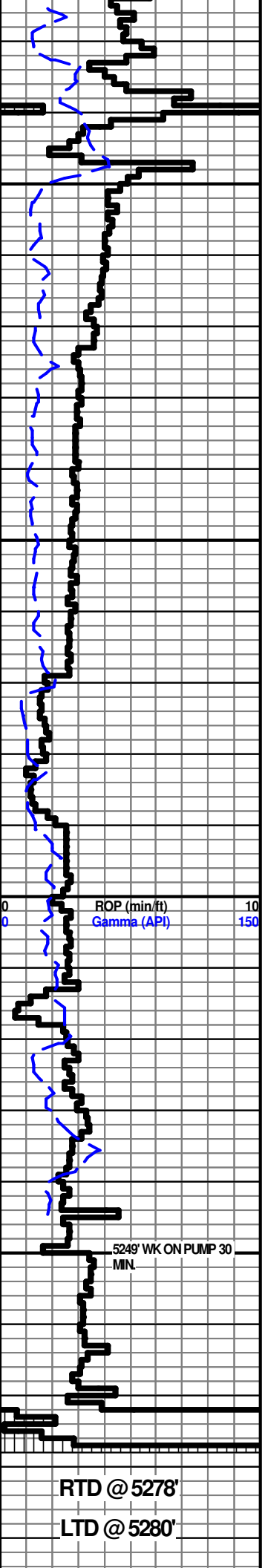
CHESTER 5014' -2023

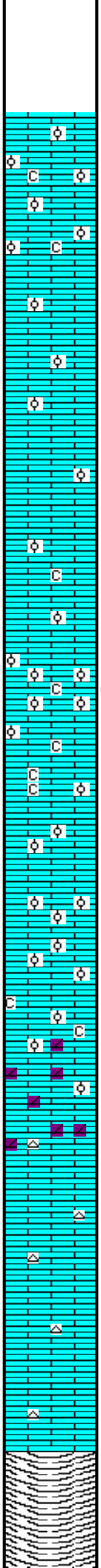
LMS- TAN TO LT GY, CRYPTO-V/V/FN-XLN PHANTOM OOLITES, TR FOSS FRGS, MATRIX SUB CHLKY & PCKSTONE TRS WHT CHLK, DLL LT YEL FLO IP, SCATT PR MICRO PP POR, NO VIS SHOW

ST. GEN 5033' - 2042'

5033-5037' LMS- TAN TO LT GRY,(TAN OIL STAIN IP) V/V/FN-XLN MICRO OOLITIC W/ V/F QURTZ GRAINS IP, SUB SUCRO TO SUCRO GLDN YEL FLO, NO VIS POR, FAIR TO GOOD STRMING OIL CUTS

LMS- TAN LT GRY- CRYPTO-V/V/FN-XLN, V/ MICRO OOLITIC V/ SANDY V/V/FN-GRN ANG MATRIX SUB CHLKY SUB SUCRO TO SUCRO DLL YEL FLO, NO VIS POR, NO CUT





SAMPLES 99% UPHOLE MORROW SHALE CAVINGS FROM 5060-70, 5070'-80', 5080'-90

@5100' SAMPLE WE FOUND IN LESS THAN 1% OF SAMPLES, LMS- CRM LT TN, CRYPTO-V/V/FN-XN OOLITIC MATRIX (SMLL MED) SUB CHLKY IP,DLL YEL FLO, NO VIS POR, NO FLO

LMS-TAN- CRYPT0-V/V/FN-XLN SUB SUCRO (ABDT OOLITES SMLL MED & LRG IP), DLL LT YEL FLO IP, NO VIS POR, NO VIS SHOW OR CUT

SAMPLES BECOMING BETTER AFTER CLEANING SUCTION SCREEN

LMS-CRM TAN- CRYPTO-V/V/FN-XLN SUB SUCRO (ABDT OOLITES (SMLL MED & LRG IP), TR WHT CHLK IP, DLL LT YEL FLO IP, NO VIS POR, NO VIS SHOW OR CUT

ST. LOUIS "B" 5169' -2178'

LMS- 95% WHT TO CRM CHLK %% TAN (SLI TR DRK TAN SPTTD OIL STN) CRYPTO-V/V/FN-XLN, MTRX SUB SUCRO TO SUB CHLKY V/ OOLITIC SMLL MED & LRG, BRIT YEL GLD FLO, TR MICRO PP & INTER-XLN POR, FAIR TO GOOD STRMING CUTS

LMS- TAN GRAYISH, CRYPTO-V/V/FN-XLN SUB SUCRO, ABDT OOLITES(SMLL MED & LRG), DLL YEL FLO, NO VIS POR, NO VIS SHOW OR CUT

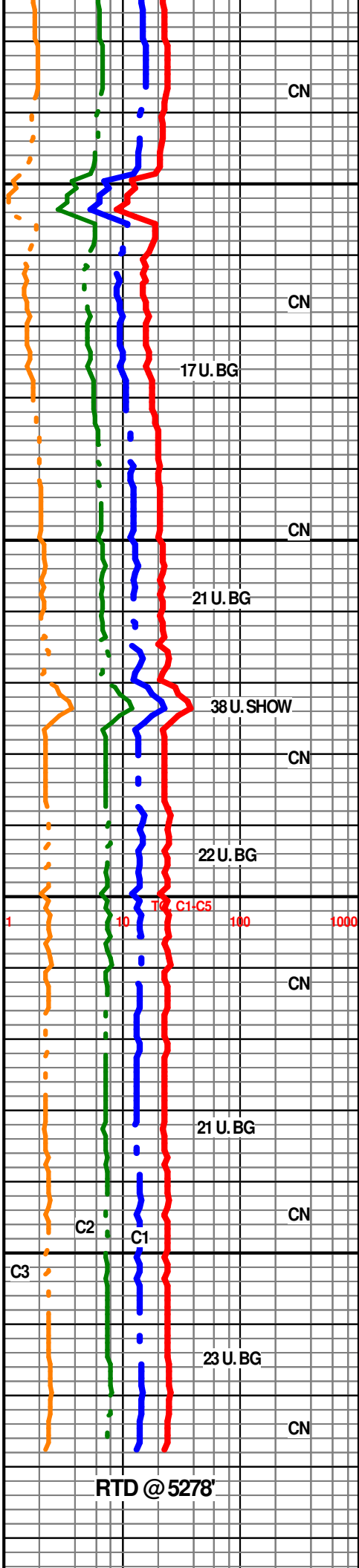
LMS- TAN CRYPTO-XLN V/ OOLITIC(SMLL MED LRG) MATRIX, SUB CHLKY, PCKSTN, DLL LT YEL FLO, NO VIS POR, NO VIS SHOW R CUT

LMS- TAN GRAYISH IP CRYPTO-XLN SUB SUCRO TO PCKSTN, TRS DOLO F-XLN IP, ABDT TO V/ OOLITIC (SMLL MED LRG) LT YEL FLO, NO VIS POR, NO VIS SHOW

LMS- TAN GRAY IP, CRYPTO-XLN TR SUB SUCRO TRS SUB LITHOGR, TRS WHT A NOPQUE CHERT, DLL YEL FLO, NO VIS POR, NO VIS SHOW

RTD @6:25 PM APRIL 29TH 2023

SHORT TRIP/ CTCH

TOFL/ ELI

START LOGGING @4:30AM 4-30-23 ON BOTTOM