KOLAR Document ID: 1496468

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 # 32446
Name: Merit Energy Company, LLC
Address 1: 13727 NOEL ROAD, SUITE 1200
Address 2:
City: DALLAS State: TX Zip: 75240 + 7362
Contact Person: IDANIA MEDINA
Phone: (620) 629-4228
CONTRACTOR: License # 5929
Name: Duke Drilling Co., Inc.
Wellsite Geologist: Merit Energy 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 #:

10/13/2019 Spud Date or Recompletion Date
10/16/2019 Date Reached TD
10/28/2019 Completion Date or Recompletion Date

API No.: 15-081-22202-00-00
Spot Description:
NE - SE - SE - NE Sec. 4 Twp. 29 S. R. 33 ☐ East ☑ West
2245 Feet from ☑ North / ☐ South Line of Section
157 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: Haskell
Lease Name: NLV Well #: 4-1
Field Name: Wildcat
Producing Formation: Dry - Temporarily Abandoned
Elevation: Ground: 2959 Kelly Bushing: 2971
Total Vertical Depth: 5698 Plug Back Total Depth: 5650
Amount of Surface Pipe Set and Cemented at: 1682 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: 9000 ppm Fluid volume: 485 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: 02/07/2020
☐ **Confidential Release Date:** 02/06/2022
☑ **Wireline Log Received** ☐ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** Karen Ritter **Date:** 02/10/2020

Operator Name: Merit Energy Company, LLC Lease Name: NLV Well #: 4-1

Sec. 4 Twp. 29 S. R. 33 ☐ East ☑ West County: Haskell

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 *(Attach Additional Sheets)*	☐ Yes	☑ No
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:
Attached

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

Name	Top	Datum
Attached	Attached	Attached

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	1682	A/C	640	SEE ATTACHED
Production	7.875	5.5	17	5697	A	265	50 SX RH/SEE ATTACHED

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)*	4245	4252

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)*
			CIBP Cast Iron Bridge Plug	4825	
4	4245	4252			
4	4838	4852			ACID-53.5 bbls 15% acid, hcl, 30bbl flush

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	Merit Energy Company, LLC
Well Name	NLV 4-1
Doc ID	1496468

All Electric Logs Run

ANNULAR HOLE VOLUME.
ARRAY COMPENSATED TRUE RESISTIVITY LOG 1
ARRAY COMPENSATED TRUE RESISTIVITY LOG 2
ARRAY COMPENSATED TRUE RESISTIVITY LOG 5
BOREHOLE COMPENSATED SONIC ARRAY LOG
SONIC CEMENT BOND LOG

Form	ACO1 - Well Completion
Operator	Merit Energy Company, LLC
Well Name	NLV 4-1
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Tops

Name	Top	Datum
CHASE	2670	.
COUNCIL GROVE	2960	.
WABUNSEE	3320	.
TOPEKA	3700	.
HEEBNER	4110	.
TORONTO	4130	.
LASNING	4160	.
MARMATON	4770	.
PAWNEE	4890	.
ATOKA	5160	.
MORROW	5280	.
CHESTER	5400	.
ST GENEVIEVE	5540	.
ST LOUIS	5540	.

Form	ACO1 - Well Completion
Operator	Merit Energy Company, LLC
Well Name	NLV 4-1
Doc ID	1496468

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	1682	A/C	640	SEE ATTACHED
Production	7.875	5.5	17	5697	A	265	50 SX RH/SEE ATTACHED

BASIC ENERGY SERVICES

PRESSURE PUMPING

Job Log

Liberal Yard #1717 - Phone 620-624-2277 - 1700 S. Country Estates Road, Liberal KS 67901

Customer:	Merit Energy	Cement Pump No.:	38750-19842	Operator TRK No.:	96815		
Address:	Sublette.invoices@meritenergy.com	Ticket #:	1718-19826	Bulk TRK No.:	38119-37725	70897-37547	
City, State, Zip:	PO Box L Sublette Ks 67877	Job Type:	Z-42 Cement Surface Casing				
Service District:		Well Type:	OIL				
Well Name and No.:	NLV # 4-1 AFE # 64514	Well Location:	4-29S-33W	County:	Haskell	State:	Kansas

Type of Cmt	Sacks	Additives	Truck Loaded On		
A CON BLEND	475	3%CaCl, 1/2#POLYFLAKE, 1#GILSONITE	38119-37725	Front	Back
CLASS C	165	2%CaCl, 1/4#POLYFLAKE	70897-37547	Front	Back
				Front	Back

Lead/Tail:	Weight #1 Gal.	Cu/Ft/sk	Water Requirements	CU. FT.	Man Hours / Personnel	
Lead:	12.1	2.41	13.9	1144.75	Man Hours:	
Tail:	14.8	1.34	6.33	221.1	# of Men on Job:	4

Time (am/pm)	(BPM)	Volume (BBLS)	Pumps T	Pumps C	Pressure(PSI) Tubing	Pressure(PSI) Casing	Description of Operation and Materials
12:00							ON LOC, SAFTEY MTG, R.U.
15:35						2500	TEST LINES
3:38 PM	5.2					110	START MIXING LEAD @ 12.1#
4:38 PM	5.5	204				130	ON TAIL @ 14.8#
4:47 PM		39					SHUT DOWN, DROP PLUG
16:49	5.5					160	START DISPLACEMENT, WASHUP
17:12	2.2	94				430	SLOW RATE
5:16 PM		104				480-980	PLUG DOWN
17:18							RELEASE PSI, FLOAT HELD
							JOB COMPLETE
							THANK YOU FOR YOUR BUSINESS!!!
							100 to Pit

Size Hole	12 1/4	Depth				TYPE		
Size & Wt. Csg.	8 5/8 24	Depth	1682'	New / Used		Packer		Depth
tbg.		Depth				Retainer		Depth
Top Plugs		Type				Perfs		CIBP

Customer Signature:	Basic Representative:	CHAD HINZ
	Basic Signature:	
	Date of Service:	10/15/2019

BASIC ENERGY SERVICES

1700 S. Country Estates Raod
Liberal, KS 67901
PH (620)-624-2277FAX (620) 624-2280

SERVICE ORDER - 1718-19826

Date: 10/15/2019

Well Name:
NLV # 4-1 AFE # 64514

Location:
4-29S-33W

County - State:
Haskell, Kansas

RRC #:

Type Of Service:
Z-42 Cement Surface Casing

Customer's Order #:

Customer: Merit Energy

Address: Sublette.invoices@meritenergy.com
PO Box L Sublette Ks 67877

As a consideration, the above named Customer agrees to pay Basic Energy Services In accord with the rates and terms stated in Basic Energy Services current price lists. Invoices are payable NET 30 (SEE 10.2) after date of invoice. Upon Customer's default in payment of Customers account by such date, Customer agrees to pay interest thereon after default at 18% per annum. In the event it becomes necessary to employ an attorney to enforce collection of said account, Customer agrees to pay all the collection costs and attorney fees. These terms and conditions shall be governed by the laws of the state where services are performed or equipment or materials are furnished.

Basic Energy Services., warrants only title to the products, supplies and materials and that the same are free from defects in workmanship. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, MERCHANTABILITY,FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Basic Energy Services., liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, product liability, breach of warranty or otherwise) arising out of the sale or use of any products, supplies, or materials upon their return to Basic Energy Services. is expressly limited to the replacement of such products, supplies or materials or , at Basic Energy Services. option, to the allowance to the Customer of credit for the cost of such items. In no event shall Basic Energy Services be liable for special, indirect, punitive or consequential damages.

CODE	QTY	UOM	DESCRIPTION	PRICE	TOTAL
BC118	475	EA	A-Con Blend	50.00	23750.00
BC101	165	SK	Class C Cement	29.00	4785.00
CC102	279	LB	Celloflake	4.00	1116.00
CC109	1653	LB	Calcium Chloride	1.00	1653.00
CC201	476	LB	Gilsonite	1.00	476.00
ME102	180	MI	Heavy Equipment Mileage	8.00	1440.00
CE240	640	SK	Blending & Mixing Service Charge	1.40	896.00
TM	1809	MI	Ton Mileage	3.00	5427.00
CC2	1	HR	Depth Charge, 1001'-2000'	1500.00	1500.00
CE504	1	EA	Plug Container Utilization Charge	250.00	250.00
ME101	60	MI	Light Vehicle Mileage	5.00	300.00
CE505	1	EA	Cement Densiometer, with chart recorder	350.00	350.00
CF105	1	Ea	Top Rubber Cement Plug, 8 5/8"	225.00	225.00
BE143	1	EA	Supervisor	75.00	75.00
BE144	4	EA	Driver	35.00	140.00

	Book Total:	$42,383.00
	Taxes:	
	Disc. Price:	$14,351.23
Additional 10% Discount as per Agreement on Cement Services	10% Disc	$1,435.12
	Adjusted Price	**$12,916.11**

PUMP TRUCK NUMBER: 38750-19842

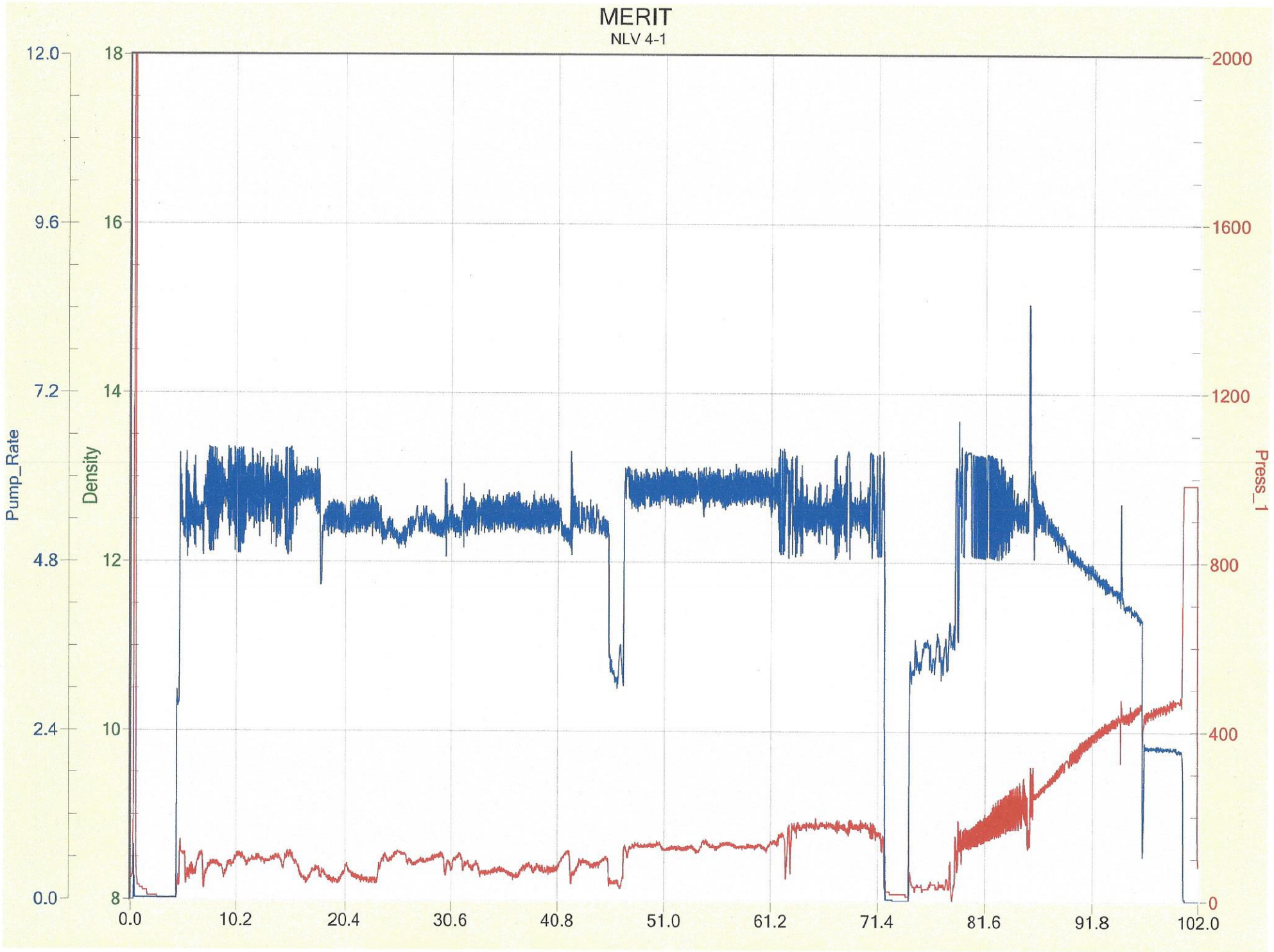
DRIVER:

BASIC ENERGY SERVICES

	YES	NO
THIS JOB WAS SATISFACTORILY COMPLETED	☐	☐
OPERATION OF EQUIPMENT WAS SATISFACTORY	☐	☐
PERFORMANCE OF PERSONEL WAS SATISFACTORY	☐	☐

CUSTOMER OR HIS AGENT

Customer Comments or Concerns:


MERIT
NLV 4-1
Pump_Rate
Density
Press_1
12.0
9.6
7.2
4.8
2.4
0.0
18
16
14
12
10
8
2000
1600
1200
800
400
0
0.0
10.2
20.4
30.6
40.8
51.0
61.2
71.4
81.6
91.8
102.0

BASIC ENERGY SERVICES

1700 S. Country Estates Raod
Liberal, KS 67901
PH (620)-624-2277FAX (620) 624-2280

SERVICE ORDER - 1718 19783 L

Date: 10/18/2019

Well Name:
NLV # 4-1 AFE # 64514

Location:
4-29S-33W

County - State:
Haskell, Kansas

RRC #:

Type Of Service:
Z-42 Cement Production Casing

Customer's Order #:

Customer: Merit Energy

Address: sublette.invoices@meritenergy.com
PO Box L Sublette Ks 67877

As a consideration, the above named Customer agrees to pay Basic Energy Services In accord with the rates and terms stated in Basic Energy Services current price lists. Invoices are payable NET 30 (SEE 10.2) after date of invoice. Upon Customer's default in payment of Customers account by such date, Customer agrees to pay interest thereon after default at 18% per annum. In the event it becomes necessary to employ an attorney to enforce collection of said account, Customer agrees to pay all the collection costs and attorney fees. These terms and conditions shall be governed by the laws of the state where services are performed or equipment or materials are furnished.

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CODE	QTY	UOM	DESCRIPTION	PRICE	TOTAL
BC133	315	SK	Class C 50/50 Poz	23.50	7402.50
CC113	1590	LB	Gypsum	1.00	1590.00
CC111	1888	LB	Salt	0.50	944.00
CC102	79	LB	Celloflake	4.00	316.00
CC201	1576	LB	Gilsonite	1.00	1576.00
CC105	67	LB	C-41P	4.00	268.00
CC187	133	LB	C-17	24.00	3192.00
CC151	500	GAL	Mud Flush	1.50	750.00
C718	26	Gal	Clayplex 650	35.00	910.00
ME102	120	MI	Heavy Equipment Mileage	8.00	960.00
CE240	315	SK	Blending & Mixing Service Charge	1.40	441.00
TM	795	MI	Ton Mileage	3.00	2385.00
CC6	1	HR	Depth Charge, 5001-6000'	2900.00	2900.00
CE504	1	EA	Plug Container Utilization Charge	250.00	250.00
ME101	60	MI	Light Vehicle Mileage	5.00	300.00
CE505	1	EA	Cement Densiometer, with chart recorder	350.00	350.00
CF103	1	Ea	Top Rubber Cement Plug, 5 1/2"	105.00	105.00
BE143	1	EA	Supervisor	75.00	75.00
BE144	1	EA	Driver	35.00	35.00
				Book Total:	$24,749.50
				Taxes:	
				Disc. Price:	$10,995.69
			Additional 10% Discount as per Agreement on Cement Services	10% Disc	$1,099.57
				Adjusted Price	**$9,896.12**

PUMP TRUCK NUMBER: 37223 19572 9

DRIVER: Kirby Harper

Victor A Corona
BASIC ENERGY SERVICES

	YES	NO
THIS JOB WAS SATISFACTORILY COMPLETED	☐	☐
OPERATION OF EQUIPMENT WAS SATISFACTORY	☐	☐
PERFORMANCE OF PERSONEL WAS SATISFACTORY	☐	☐

CUSTOMER OR HIS AGENT

Customer Comments or Concerns:

Ruben Segura

BASIC ENERGY SERVICES

PRESSURE PUMPING

Job Log

Liberal Yard #1717 - Phone 620-624-2277 - 1700 S. Country Estates Road, Liberal KS 67901

Customer:	Merit Energy	**Cement Pump No.:**	37223 19572 9HRS	**Operator TRK No.:**	86531		
Address:	sublette.invoices@meritenergy.com	**Ticket #:**	1718 19783 L	**Bulk TRK No.:**	37712 19883 Ruben	37712 19883	
City, State, Zip:	PO Box L Sublette Ks 67877	**Job Type:**	Z-42 Cement Production Casing				
Service District:	1718-Liberal KS	**Well Type:**	OIL				
Well Name and No.:	NLV # 4-1 AFE # 64514	**Well Location:**	4-29S-33W	**County:**	Haskell	**State:**	Kansas

Type of Cmt	Sacks	Additives	Truck Loaded On		
Class C 50/50	315	6% Gypsum, 10% salt, .5% C-17, 1/4# Defoamer, 5# Gilsonite, 1/4# Celloflake	37712 19883 Ruben	Front	Back
			37712 19883	Front	Back
				Front	Back

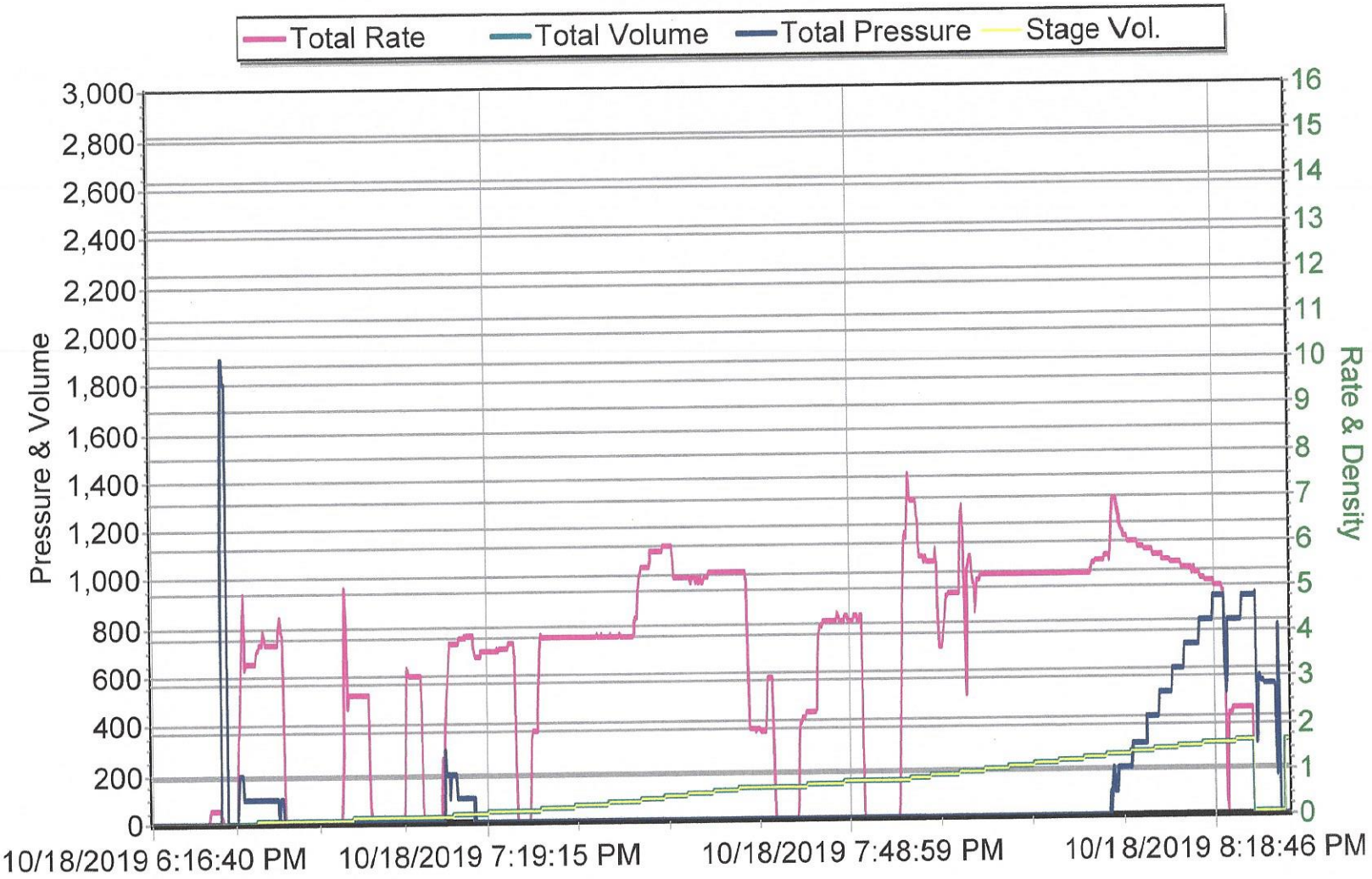
Lead/Tail:	Weight #1 Gal.	Cu/Ft/sk	Water Requirements	CU. FT.	Man Hours / Personnel	
Lead:	13.6	1.57	7.18	494.55	TT Man Hours:	35
Tail:					# of Men on Job:	3

Time (am/pm)	(BPM)	Volume (BBLS)	Pumps T	Pumps C	Pressure(PSI) Tubing	Pressure(PSI) Casing	Description of Operation and Materials
16:00pm							Arrived at location
16:30pm							Spot trucks/Rig up
18:30pm							Safety meeting
18:56pm						2500	Pressure test lines to 2500psi
18:58pm	3	11.9				200	Pump 11.9bbls of mud flush spacer
19:07pm	3	13.9				zero	Pump 13.9bbls of cement for rat and mouse hole
19:15pm	4	74				100	Pump 74bbls of cement from 265sks at 13.6lbs
19:44pm							Shut down/Drop plug/Wash pump and lines to pit
19:52pm							Start displacement with fresh water and 4%KCL
19:57pm	5	20				zero	20bbls gone
20:02pm	5	40				zero	40bbls gone
20:06pm	5	60				zero	60bbls gone
20:11pm	6	80				300	80bbls gone
20:14pm	6	100				600	100bbls gone
20:18pm	5	120				900	120bbls gone/Slow down rate
20:22pm	2.5	131				1850	Bump plug/Hold for 2minutes
20:24pm							Release pressure to check if float holds
							Got no cement to surface
							Rig down
							Job completed
							Thanked company man and rig crew

Size Hole	7 7/8	Depth				TYPE	Float Collar		
Size & Wt. Csg.	5 1/2 17#	Depth	5697	New / Used		Float Collar	5652.64	Depth	
Landing Psi	1000+	Depth				Retainer		Depth	
Shoe Joint	44.36	Type				Perfs		CIBP	

Customer Signature:	Basic Representative:	Victor A. Corona
	Basic Signature:	Victor A Corona
	Date of Service:	10/18/2019

Merit Energy
NLV 4-1
5 1/2 Production
10/18/2019



Pumping Order / Mixture

Client:	Merit Energy	Well Name & No:	NLV 4-1
Date:	10/18/2019	Location Supervisor:	Victor A. Corona
Job:	5 1/2 Production	COMPANY REP.	Rodney Gonzales

Differential Pressure 779 psi
Lift Pressure: 500 psi

Recipe

Pressure Test PSI: 2500 **MAX PSI: 1500**

12	BBLS OF MUD FLUSH SPACER		
13	BBLS CEMENT R&M YIELD 1.57	13.6 LBS	50SKS 7.18G/SK
74	BBLS TAIL SLURRY YIEL 1.57	13.6 LBS	265SKS 7.18G/SK

DROP PLUG/WASH PUMP ON TO PIT

131.0 BBLS OF DISPLACEMENT
120.0 BBLS @ 5 BPM
11.0 BBLS AT 2-3 BPM TO BUMP PLUG

DISP PLUG WITH 131 BBLS OF H20/4%KCL

Cement Callsheet

BASIC ENERGY SERVICES

Company	Merit Energy	Service Point	Liberal, Kansas				
		Contact Person	Tyce Davis			Ph #	620-388-3779
Well Type		Contractor	Duke 9	County	Haskell	State	Kansas
Lease	NLV	Well #	4-1	Sec	4	Twp	29S	Range	33W
Directions:							

Sublette: North on 83 to 83 & 160 Jct; 3 miles west to CR JJ; 0.4 miles south; west to rig

Job Type	Production	Casing Size: 5 1/2	Thread: 8 Rnd	Weight: 17
Equipment	1 Pump Truck 1 Bulk Truck	Tubing/Drill Pipe Size	Thread	Weight
		Hole Size: 7 7/8	Packer	Bridge Plug
AFE #:		Plug Container: Yes	Squeeze Manifold	Field Bin

Production: Use 50sksof tail cement to plug Rat & Mouse; Cement Casing With 250 sks; Displace with 4% KCL:

CEMENT DATA

LEAD 1	Weight PPG	Type		Additives
Sacks	Excess	Yield Ft³/sk	Water Gal/sk	
TAIL 1	Weight PPG	Type		Additives: 6% Gypsum, 10% Salt, .5% C-17, 1/4# Defoamer, 5# Gilsonite, 1/4# Celloflake
BC133	13.60	Class C 50/50		
Sacks: 315	Excess: 30%	Yield Ft³/sk: 1.57	Water Gal/sk: 7.18	
LEAD 2	Weight PPG	Type		Additives
Sacks	Excess	Yield Ft³/sk	Water Gal/sk	
TAIL 2	Weight PPG			Additives
Sacks	Excess	Yield Ft³/sk	Water Gal/sk	
Mouse/Rat	Weight PPG	Type		Additives
Sacks	Excess	Yield Ft³/sk	Water Gal/sk	
Plugs	Weight PPG	Type		Additives
Sacks	Excess	Yield Ft³/sk	Water Gal/sk	

Float Equipment

Part #	Quanity	Description	# Used	# Returned
CF103	1	Top Rubber Cement Plug, 5 1/2"		

Misc. Chemicals

CC151	500	Mud Flush		
C718	26	Clayplex 650		

Ordered By	Luke Lau	Phone 972-628-1680	Fax	Date of Job	
Call Taken By	Max Ball	Phone 620-675-5025	Email	Time Ready	
Operator or Driver Called				Call Out Time	

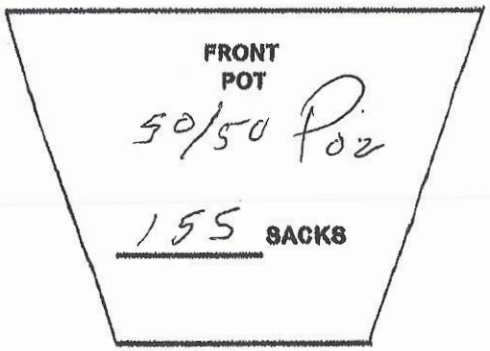
10-10-11

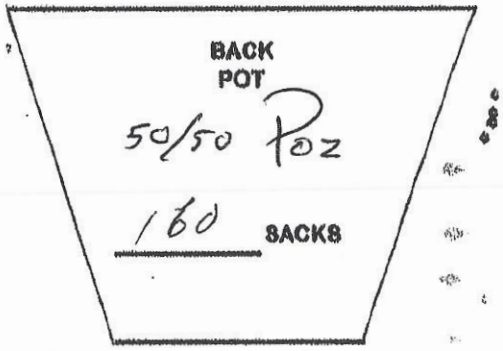
COMPANY

LEASE

Merril
NLV Well # 4-1

DIRECTIONS





37712

19883

Hours to Load Truck

ONSITE GEOLOGICAL LABORATORIES
EARTH - TECH

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

Well Name:	NLV 4-1		
Well Id:			
Location:	Sec. 4 T29S R33W, Haskell Co., Kansas		
License Number:	15-081-22202	**Region:**	Infield
Spud Date:	Oct. 14th, 2019	**Drilling Completed:**	Oct. 17th, 2019
Surface Coordinates:	NE SE SE NE		
Bottom Hole Coordinates:			
Ground Elevation (ft):	2959'	**K.B. Elevation (ft):**	2971'
Logged Interval (ft):	4100' **To:** 5698'	**Total Depth (ft):**	5698'
Formation:	Morrow, Chester		
Type of Drilling Fluid:	Natural Chemical		

OPERATOR

Company: MERIT ENERGY CO.
Address: 13727 NOEL ROAD, # 1200 Tower 2
DALLAS, TX 75240
Co. Geo: Martin Lange

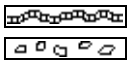
GEOLOGIST

Name: Aaron Suelter
Company: Earth Tech OGL,Inc
Address: PO Box 683
Hooker, Oklahoma 73945
Off: 888-543-8378 Cell: 620-600-0777

SURVEYS

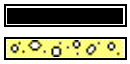
1806' INC 0.1 AZI 196.1
1964' INC 0.4 AZI 147.1
2121' INC 0.2 AZI 123.1
2279' INC 0.6 AZI 172.1
2437' INC 0.3 AZI 98.1
2595' INC 0.2 AZI 123.1
2752' INC 0.6 AZI 173.1
2909' INC 0.8 AZI 176.1
3063' INC 0.6 AZI 164.1
3221' INC 0.4 AZI 137.1
3379' INC 0.7 AZI 116.1
3537' INC 0.3 AZI 131.1
3694' INC 0.9 AZI 126.1
3850' INC 0.9 AZI 129.1
4037' INC 1.1 AZI 178.1
4190' INC 0.8 AZI 170.1
4346' INC 0.7 AZI 174.1
4501' INC 0.8 AZI 151.1
4657' INC 0.6 AZI 200.1
4816' INC 0.3 AZI 25.1
4972' INC 0.8 AZI 18.1
5129' INC 1.0 AZI 38.1
5283' INC 1.5 AZI 36.1
5441' INC 1.5 AZI 35.1
5601' INC 1.3 AZI 324.1

ROCK TYPES


Anhy

Bent

Brec

Cht

Clyst

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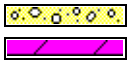
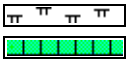
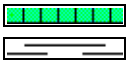

Congl

Dol

Gyp

Igne

Lmst

Meta

Mrlst

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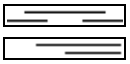
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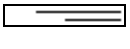
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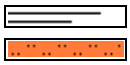
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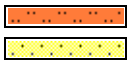

Sltst

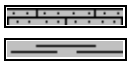
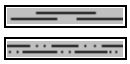
Ss

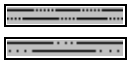
Till

Carb sh

Dol

Dtd

Gry sh

Sandylms

Shale

Sltstn

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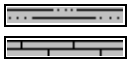

Sltysh

Lms

ACCESSORIES

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

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

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

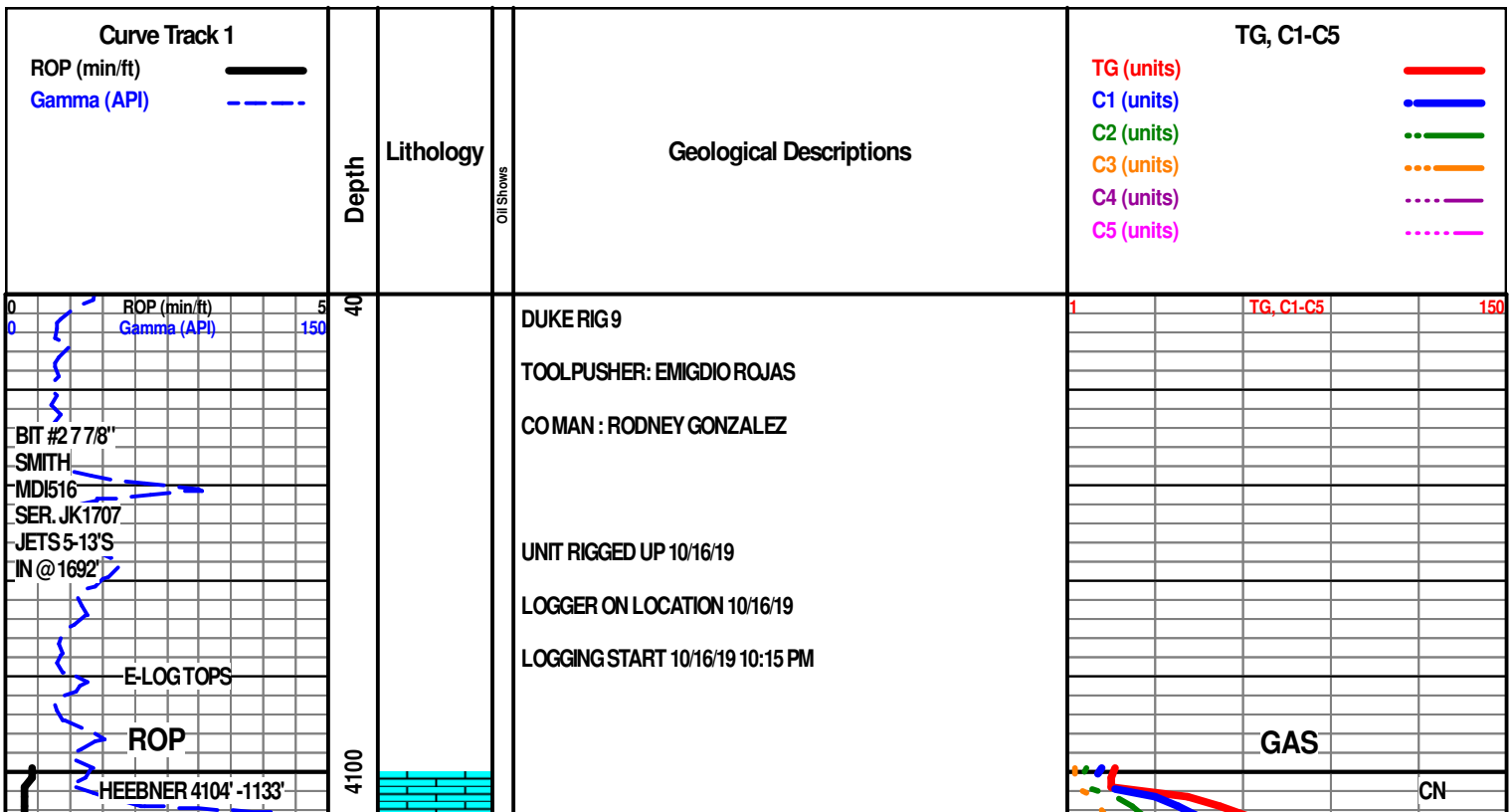
SORTING
- Well
- Moderate
- Poor

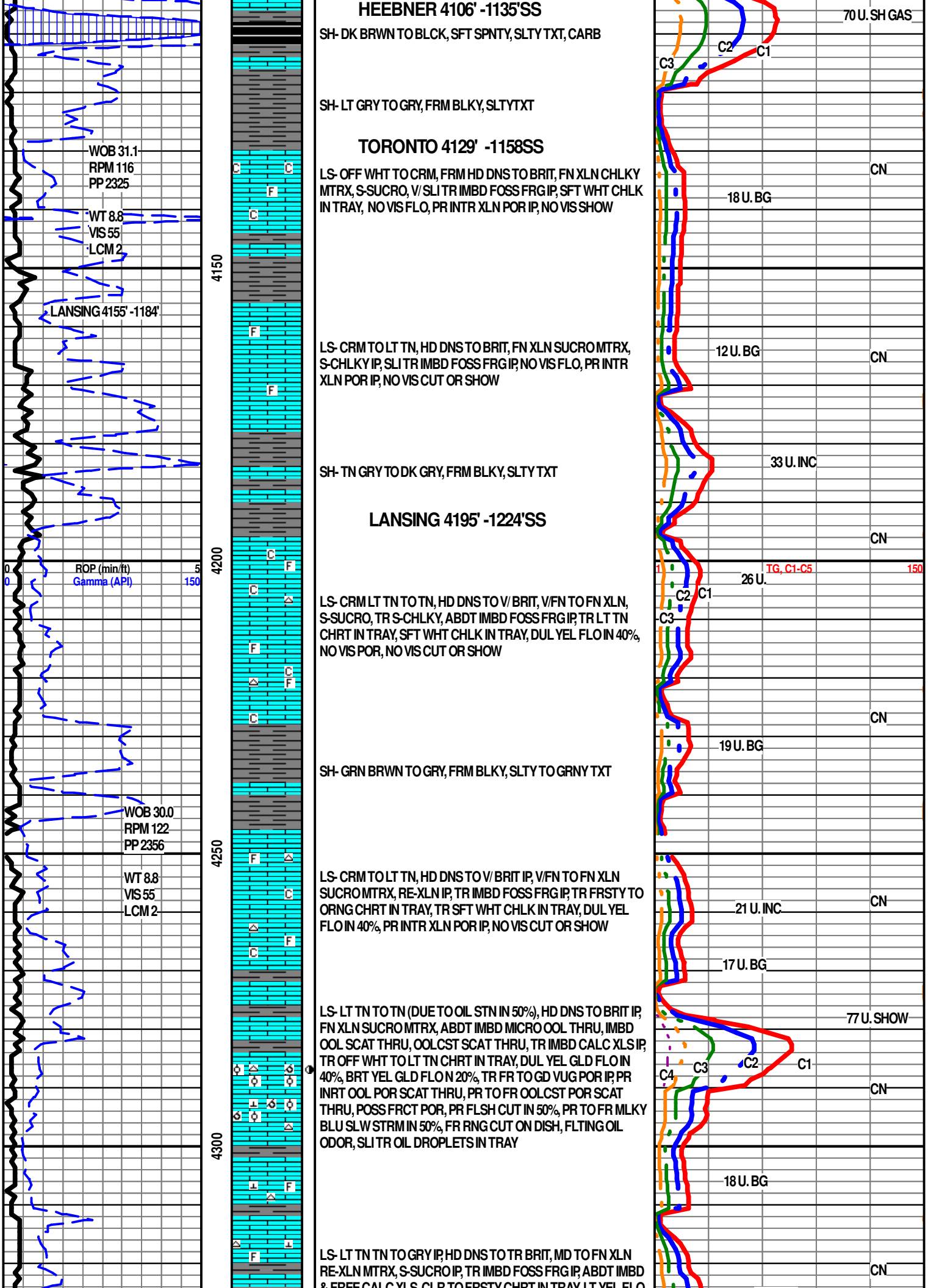
ROUNDING
- Rounded
- Subrnd
- Subang
- Angular

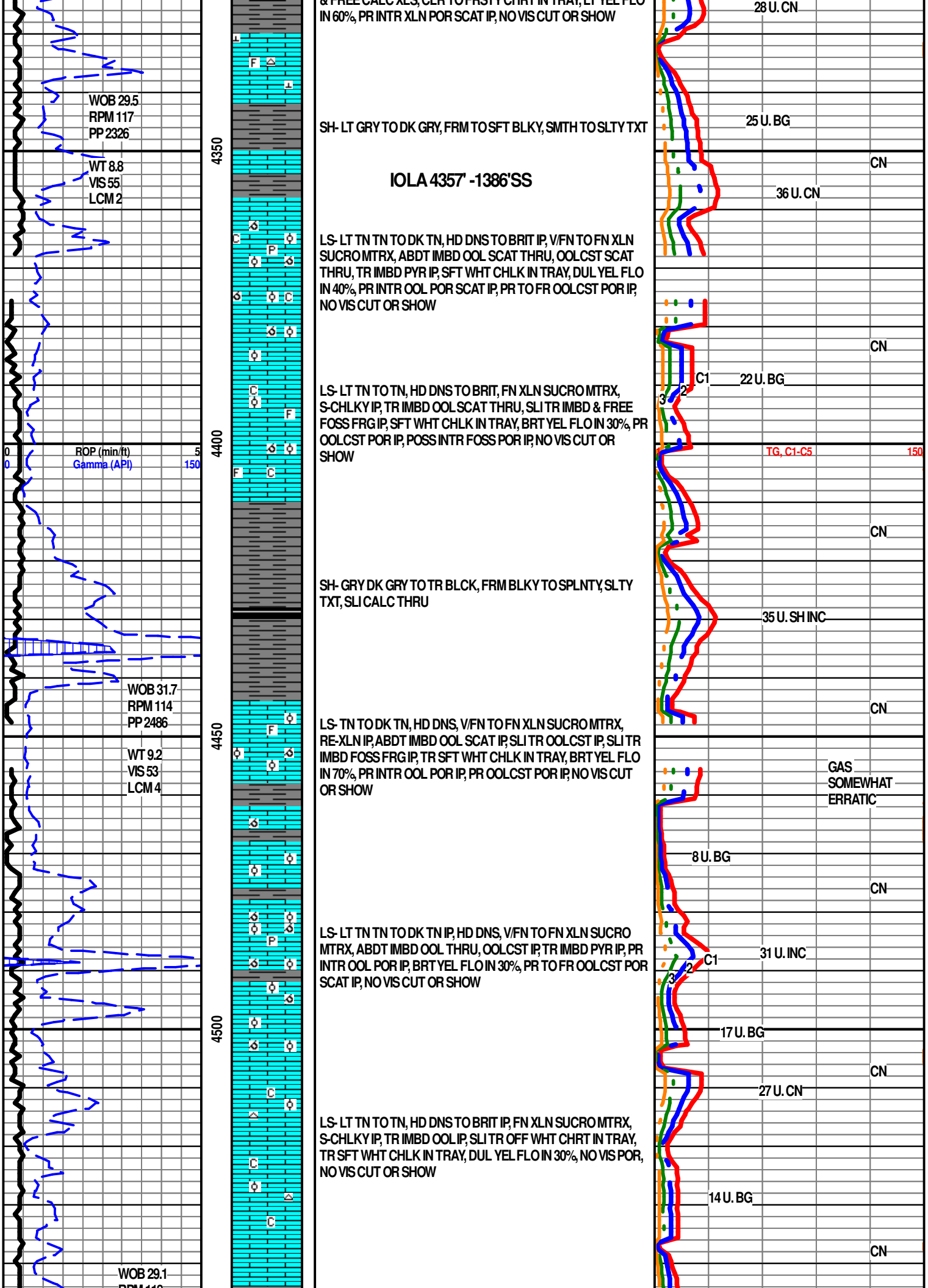
OIL SHOWS
- Even
- Spotted
- Ques
- Dead
- Gas show

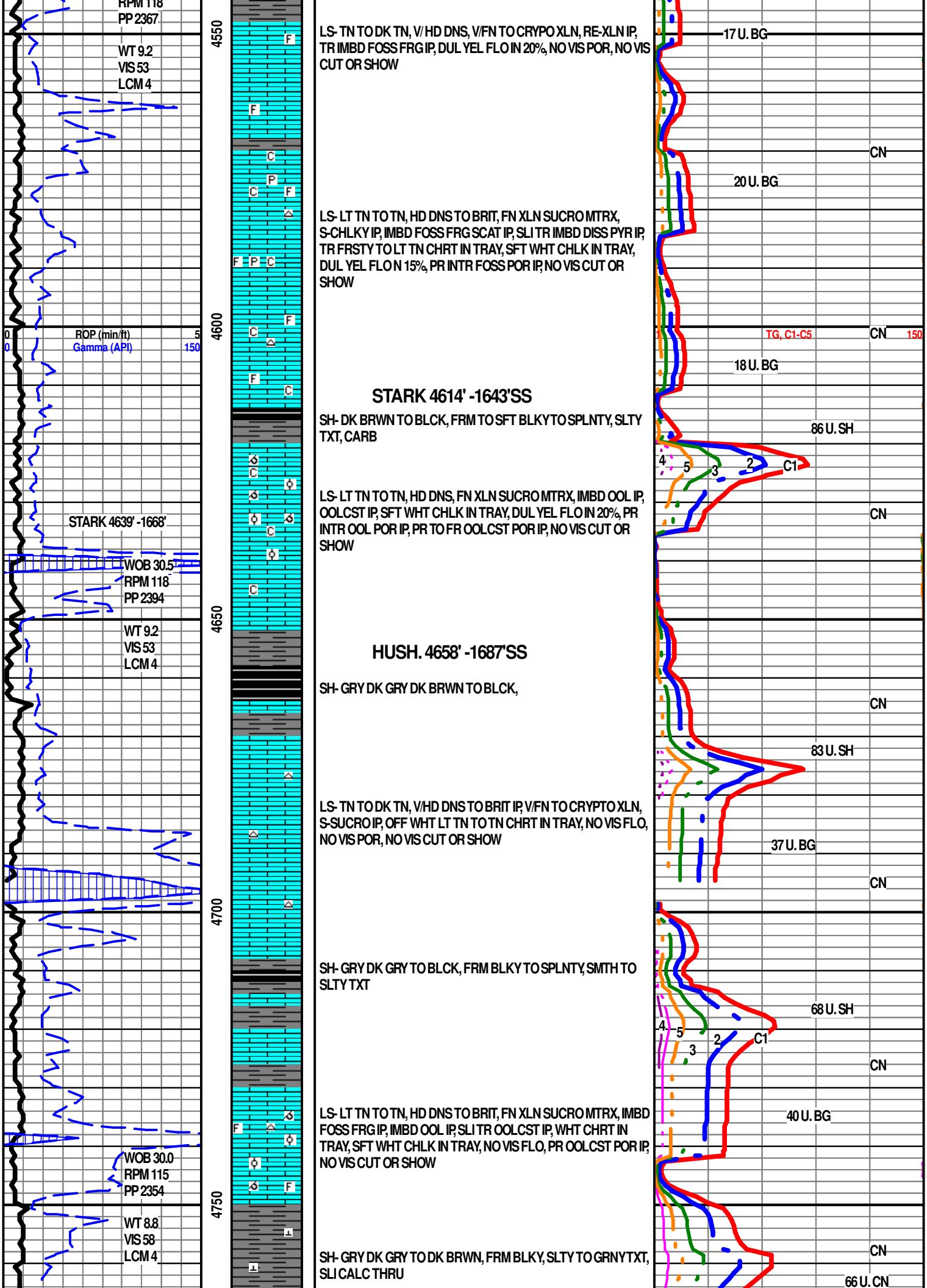
INTERVALS
- Core
- Dst
- Dst

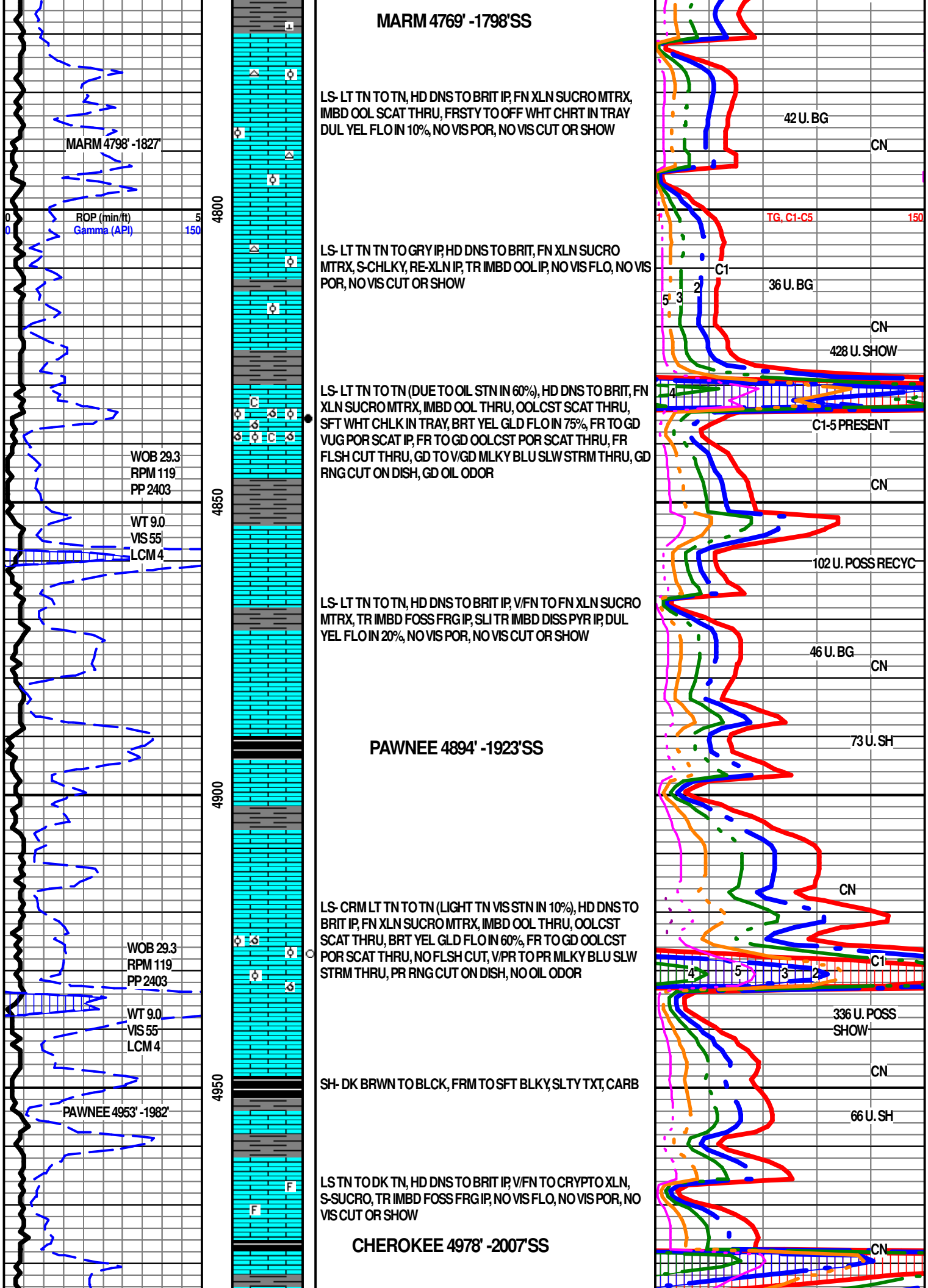
EVENTS
- Rft
- Sidewall

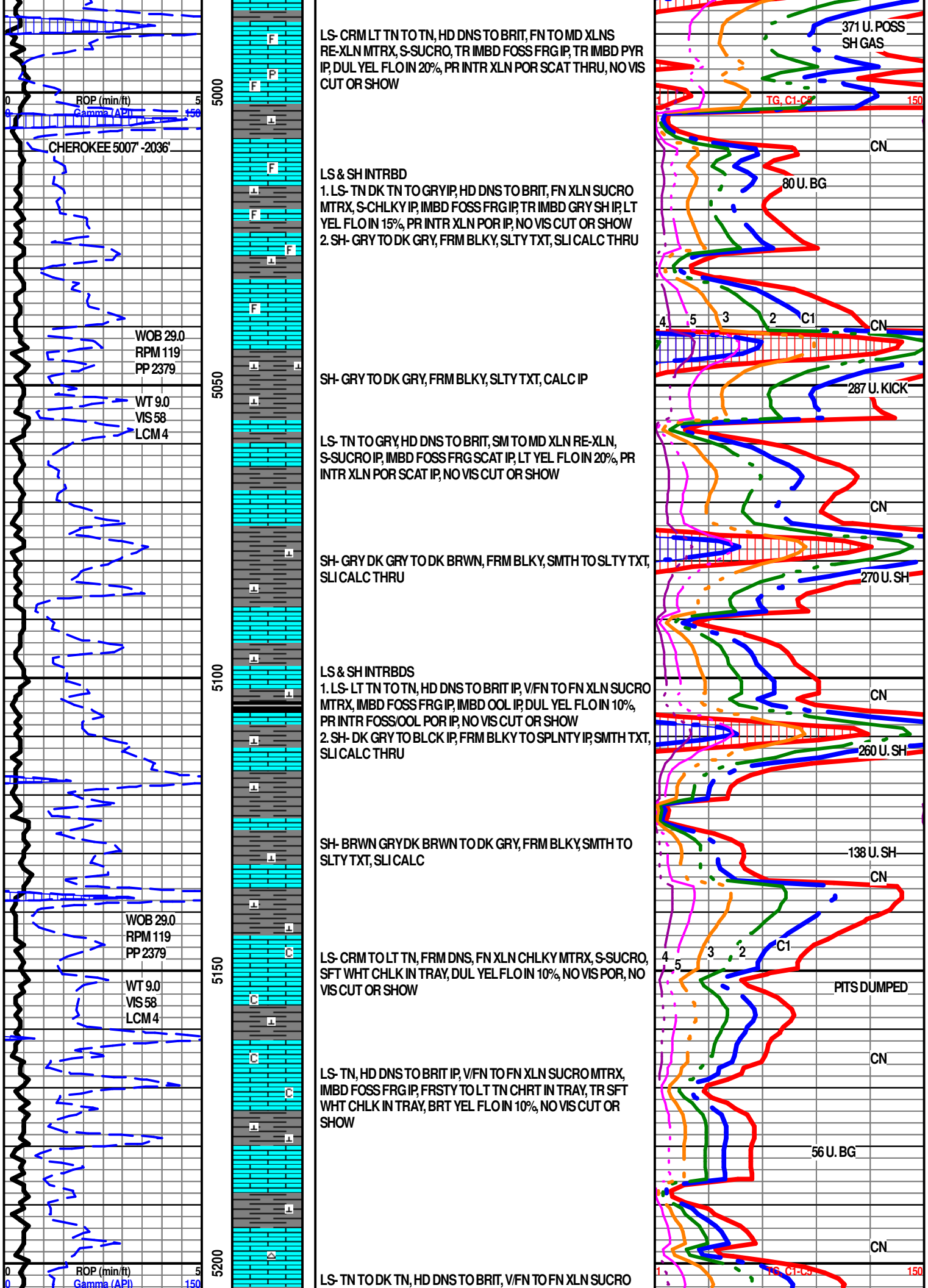


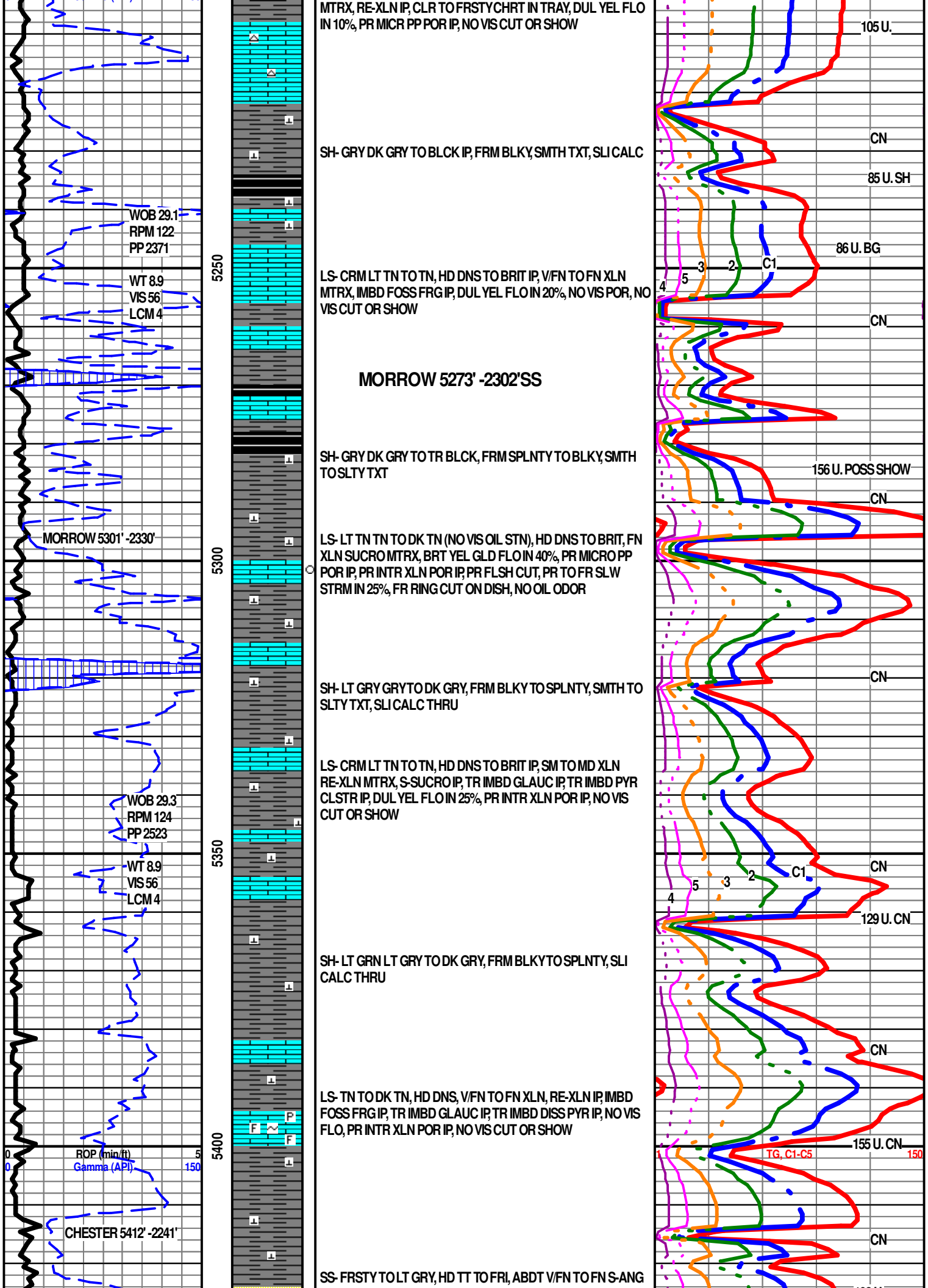

HEEBNER 4106' -1135'SS
SH- DK BRWN TO BLCK, SFT SPNTY, SLTY TXT, CARB
70 U. SH GAS
C3
C2
C1
SH- LT GRY TO GRY, FRM BLKY, SLTYTXT
TORONTO 4129' -1158SS
WOB 31.1
RPM 116
PP 2325
WT 8.8
VIS 55
LCM 2
LS- OFF WHT TO CRM, FRM HD DNS TO BRIT, FN XLN CHLKY MTRX, S-SUCRO, V/ SLI TR IMBD FOSS FRG IP, SFT WHT CHLK IN TRAY, NO VIS FLO, PR INTR XLN POR IP, NO VIS SHOW
CN
18 U. BG
4150
LANSING 4155' -1184'
LS- CRM TO LT TN, HD DNS TO BRIT, FN XLN SUCRO MTRX, S-CHLKY IP, SLI TR IMBD FOSS FRG IP, NO VIS FLO, PR INTR XLN POR IP, NO VIS CUT OR SHOW
12 U. BG
CN
SH- TN GRY TO DK GRY, FRM BLKY, SLTY TXT
33 U. INC
LANSING 4195' -1224'SS
CN
0
ROP (min/ft)
5
0
Gamma (API)
150
4200
1
TG, C1-C5
150
26 U.
C2
C1
C3
LS- CRM LT TN TO TN, HD DNS TO V/ BRIT, V/FN TO FN XLN, S-SUCRO, TR S-CHLKY, ABDT IMBD FOSS FRG IP, TR LT TN CHRT IN TRAY, SFT WHT CHLK IN TRAY, DUL YEL FLO IN 40%, NO VIS POR, NO VIS CUT OR SHOW
CN
19 U. BG
SH- GRN BRWN TO GRY, FRM BLKY, SLTY TO GRNY TXT
WOB 30.0
RPM 122
PP 2356
WT 8.8
VIS 55
LCM 2
4250
LS- CRM TO LT TN, HD DNS TO V/ BRIT IP, V/FN TO FN XLN SUCRO MTRX, RE-XLN IP, TR IMBD FOSS FRG IP, TR FRSTY TO ORNG CHRT IN TRAY, TR SFT WHT CHLK IN TRAY, DUL YEL FLO IN 40%, PR INTR XLN POR IP, NO VIS CUT OR SHOW
CN
21 U. INC
17 U. BG
77 U. SHOW
LS- LT TN TO TN (DUE TO OIL STN IN 50%), HD DNS TO BRIT IP, FN XLN SUCRO MTRX, ABDT IMBD MICRO OOL THRU, IMBD OOL SCAT THRU, OOLCST SCAT THRU, TR IMBD CALC XLS IP, TR OFF WHT TO LT TN CHRT IN TRAY, DUL YEL GLD FLO IN 40%, BRT YEL GLD FLO N 20%, TR FR TO GD VUG POR IP, PR INRT OOL POR SCAT THRU, PR TO FR OOLCST POR SCAT THRU, POSS FRCT POR, PR FLSH CUT IN 50%, PR TO FR MLKY BLU SLW STRM IN 50%, FR RNG CUT ON DISH, FLTING OIL ODOR, SLI TR OIL DROPLETS IN TRAY
C4
C3
C2
C1
CN
4300
18 U. BG
LS- LT TN TN TO GRY IP, HD DNS TO TR BRIT, MD TO FN XLN RE-XLN MTRX, S-SUCRO IP, TR IMBD FOSS FRG IP, ABDT IMBD
CN

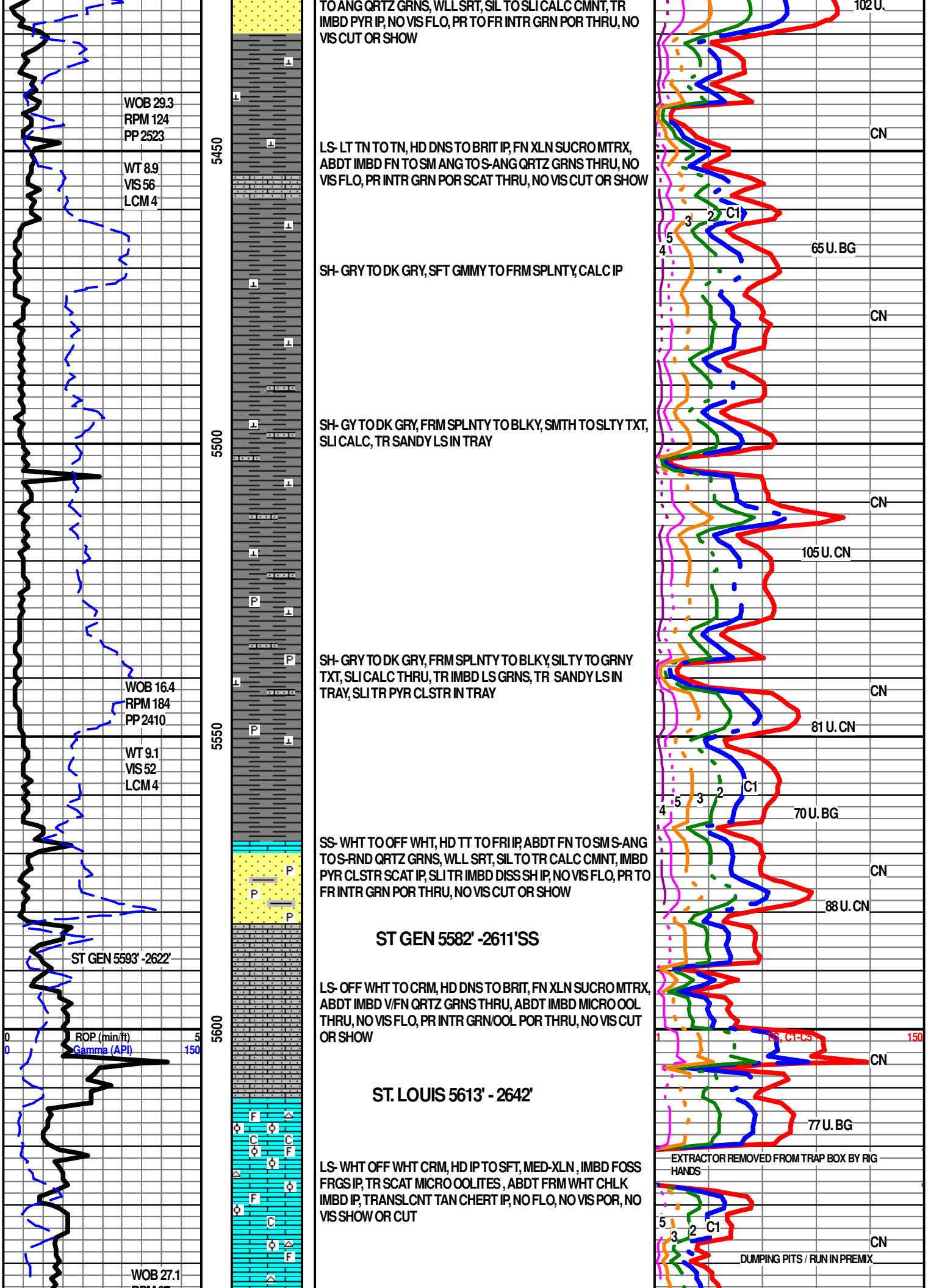

WOB 29.5
RPM 117
PP 2326
WT 8.8
VIS 55
LCM 2
0
ROP (min/ft)
5
0
Gamma (API)
150
WOB 31.7
RPM 114
PP 2486
WT 9.2
VIS 53
LCM 4
WOB 29.1
4350
4400
4450
4500
& FREE CALC XLS, CLR TO PRSTY CHRT IN TRAY, LT YEL FLO IN 60%, PR INTR XLN POR SCAT IP, NO VIS CUT OR SHOW
28 U. CN
SH- LT GRY TO DK GRY, FRM TO SFT BLKY, SMTH TO SLTY TXT
25 U. BG
IOLA 4357' -1386'SS
CN
36 U. CN
LS- LT TN TN TO DK TN, HD DNS TO BRIT IP, V/FN TO FN XLN SUCRO MTRX, ABDT IMBD OOL SCAT THRU, OOLCST SCAT THRU, TR IMBD PYR IP, SFT WHT CHLK IN TRAY, DUL YEL FLO IN 40%, PR INTR OOL POR SCAT IP, PR TO FR OOLCST POR IP, NO VIS CUT OR SHOW
CN
C1
22 U. BG
LS- LT TN TO TN, HD DNS TO BRIT, FN XLN SUCRO MTRX, S-CHLKY IP, TR IMBD OOL SCAT THRU, SLI TR IMBD & FREE FOSS FRG IP, SFT WHT CHLK IN TRAY, BRT YEL FLO IN 30%, PR OOLCST POR IP, POSS INTR FOSS POR IP, NO VIS CUT OR SHOW
TG, C1-C5
150
CN
SH- GRY DK GRY TO TR BLCK, FRM BLKY TO SPLNTY, SLTY TXT, SLI CALC THRU
35 U. SH INC
CN
LS- TN TO DK TN, HD DNS, V/FN TO FN XLN SUCRO MTRX, RE-XLN IP, ABDT IMBD OOL SCAT IP, SLI TR OOLCST IP, SLI TR IMBD FOSS FRG IP, TR SFT WHT CHLK IN TRAY, BRT YEL FLO IN 70%, PR INTR OOL POR IP, PR OOLCST POR IP, NO VIS CUT OR SHOW
GAS SOMEWHAT ERRATIC
8 U. BG
CN
LS- LT TN TN TO DK TN IP, HD DNS, V/FN TO FN XLN SUCRO MTRX, ABDT IMBD OOL THRU, OOLCST IP, TR IMBD PYR IP, PR INTR OOL POR IP, BRT YEL FLO IN 30%, PR TO FR OOLCST POR SCAT IP, NO VIS CUT OR SHOW
C1
31 U. INC
17 U. BG
CN
27 U. CN
LS- LT TN TO TN, HD DNS TO BRIT IP, FN XLN SUCRO MTRX, S-CHLKY IP, TR IMBD OOL IP, SLI TR OFF WHT CHRT IN TRAY, TR SFT WHT CHLK IN TRAY, DUL YEL FLO IN 30%, NO VIS POR, NO VIS CUT OR SHOW
14 U. BG
CN

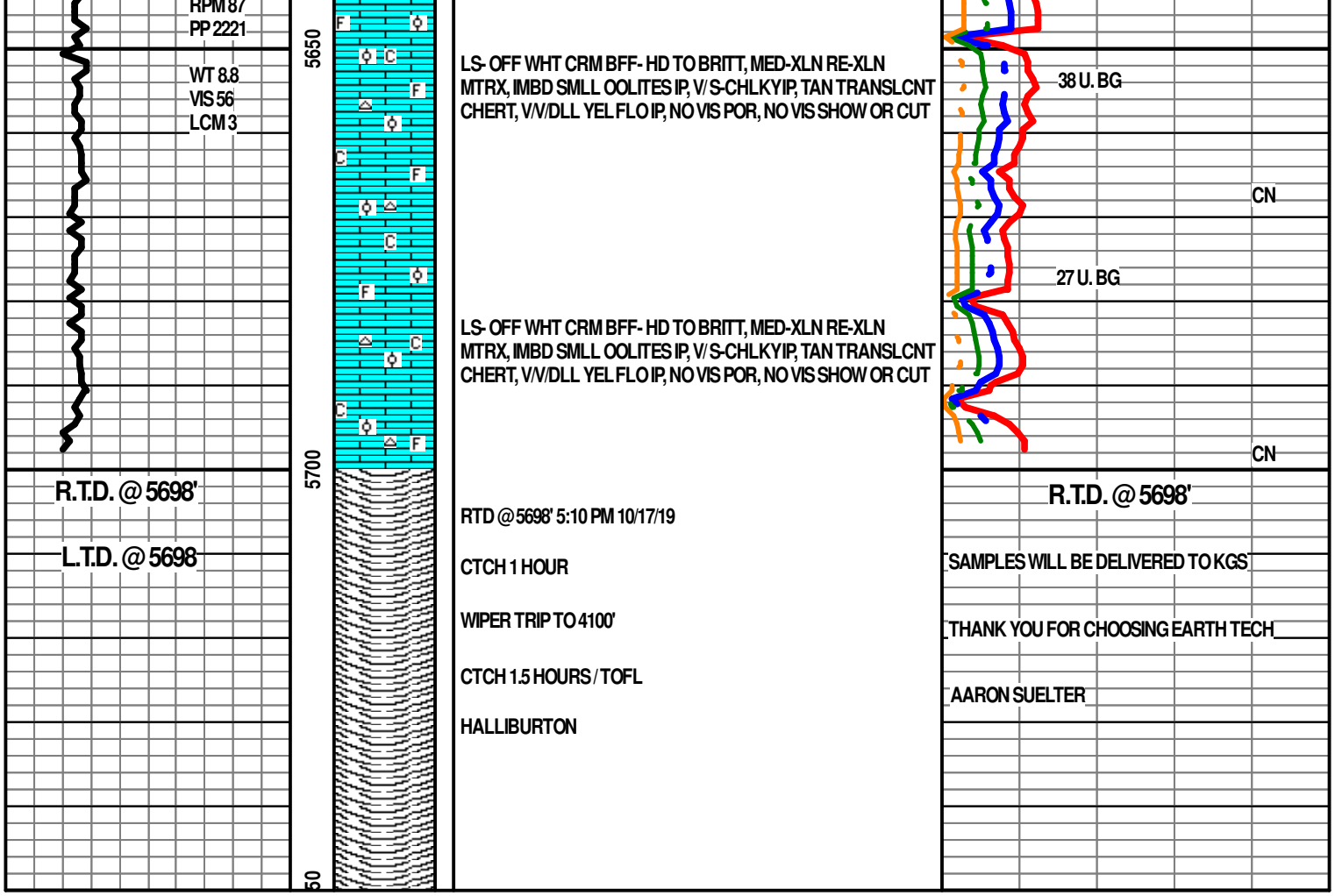

RPM 118
PP 2367
WT 9.2
VIS 53
LCM 4
4550
LS- TN TO DK TN, V/ HD DNS, V/FN TO CRYPO XLN, RE-XLN IP, TR IMBD FOSS FRG IP, DUL YEL FLO IN 20%, NO VIS POR, NO VIS CUT OR SHOW
17 U. BG
CN
20 U. BG
LS- LT TN TO TN, HD DNS TO BRIT, FN XLN SUCRO MTRX, S-CHLKY IP, IMBD FOSS FRG SCAT IP, SLI TR IMBD DISS PYR IP, TR FRSTY TO LT TN CHRT IN TRAY, SFT WHT CHLK IN TRAY, DUL YEL FLO N 15%, PR INTR FOSS POR IP, NO VIS CUT OR SHOW
0
ROP (min/ft)
5
0
Gamma (API)
150
4600
TG, C1-C5
CN
150
18 U. BG
STARK 4614' -1643'SS
SH- DK BRWN TO BLCK, FRM TO SFT BLKY TO SPLNTY, SLTY TXT, CARB
86 U. SH
4
5
3
2
C1
STARK 4639' -1668'
LS- LT TN TO TN, HD DNS, FN XLN SUCRO MTRX, IMBD OOL IP, OOLCST IP, SFT WHT CHLK IN TRAY, DUL YEL FLO IN 20%, PR INTR OOL POR IP, PR TO FR OOLCST POR IP, NO VIS CUT OR SHOW
CN
WOB 30.5
RPM 118
PP 2394
4650
WT 9.2
VIS 53
LCM 4
HUSH. 4658' -1687'SS
SH- GRY DK GRY DK BRWN TO BLCK,
CN
83 U. SH
LS- TN TO DK TN, V/HD DNS TO BRIT IP, V/FN TO CRYPTO XLN, S-SUCRO IP, OFF WHT LT TN TO TN CHRT IN TRAY, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW
37 U. BG
CN
4700
SH- GRY DK GRY TO BLCK, FRM BLKY TO SPLNTY, SMTH TO SLTY TXT
68 U. SH
4
5
3
2
C1
CN
LS- LT TN TO TN, HD DNS TO BRIT, FN XLN SUCRO MTRX, IMBD FOSS FRG IP, IMBD OOL IP, SLI TR OOLCST IP, WHT CHRT IN TRAY, SFT WHT CHLK IN TRAY, NO VIS FLO, PR OOLCST POR IP, NO VIS CUT OR SHOW
40 U. BG
WOB 30.0
RPM 115
PP 2354
4750
WT 8.8
VIS 58
LCM 4
SH- GRY DK GRY TO DK BRWN, FRM BLKY, SLTY TO GRNY TXT, SLI CALC THRU
CN
66 U. CN


MARM 4769' -1798'SS
LS- LT TN TO TN, HD DNS TO BRIT IP, FN XLN SUCRO MTRX, IMBD OOL SCAT THRU, FRSTY TO OFF WHT CHRT IN TRAY DUL YEL FLO IN 10%, NO VIS POR, NO VIS CUT OR SHOW
42 U. BG
CN
MARM 4798' -1827'
ROP (min/ft) 0 5
Gamma (API) 0 150
TG, C1-C5 0 150
4800
LS- LT TN TN TO GRY IP, HD DNS TO BRIT, FN XLN SUCRO MTRX, S-CHLKY, RE-XLN IP, TR IMBD OOL IP, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW
C1
2
5
3
36 U. BG
CN
428 U. SHOW
LS- LT TN TO TN (DUE TO OIL STN IN 60%), HD DNS TO BRIT, FN XLN SUCRO MTRX, IMBD OOL THRU, OOLCST SCAT THRU, SFT WHT CHLK IN TRAY, BRT YEL GLD FLO IN 75%, FR TO GD VUG POR SCAT IP, FR TO GD OOLCST POR SCAT THRU, FR FLSH CUT THRU, GD TO V/GD MLKY BLU SLW STRM THRU, GD RNG CUT ON DISH, GD OIL ODOR
C
C
4
C1-5 PRESENT
CN
WOB 29.3
RPM 119
PP 2403
WT 9.0
VIS 55
LCM 4
4850
102 U. POSS RECYC
LS- LT TN TO TN, HD DNS TO BRIT IP, V/FN TO FN XLN SUCRO MTRX, TR IMBD FOSS FRG IP, SLI TR IMBD DISS PYR IP, DUL YEL FLO IN 20%, NO VIS POR, NO VIS CUT OR SHOW
46 U. BG
CN
PAWNEE 4894' -1923'SS
73 U. SH
4900
CN
LS- CRM LT TN TO TN (LIGHT TN VIS STN IN 10%), HD DNS TO BRIT IP, FN XLN SUCRO MTRX, IMBD OOL THRU, OOLCST SCAT THRU, BRT YEL GLD FLO IN 60%, FR TO GD OOLCST POR SCAT THRU, NO FLSH CUT, V/PR TO PR MLKY BLU SLW STRM THRU, PR RNG CUT ON DISH, NO OIL ODOR
C1
4
5
3
2
WOB 29.3
RPM 119
PP 2403
WT 9.0
VIS 55
LCM 4
336 U. POSS SHOW
CN
SH- DK BRWN TO BLCK, FRM TO SFT BLKY, SLTY TXT, CARB
4950
66 U. SH
PAWNEE 4953' -1982'
LS TN TO DK TN, HD DNS TO BRIT IP, V/FN TO CRYPTO XLN, S-SUCRO, TR IMBD FOSS FRG IP, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW
F
F
CHEROKEE 4978' -2007'SS
CN


0
ROP (min/ft)
5
0
Gamma (API)
150
CHEROKEE 5007' -2036'
WOB 29.0
RPM 119
PP 2379
WT 9.0
VIS 58
LCM 4
WOB 29.0
RPM 119
PP 2379
WT 9.0
VIS 58
LCM 4
0
ROP (min/ft)
5
0
Gamma (API)
150
5000
5050
5100
5150
5200
F
P
F
F
F
F
F
C
C
C
C
LS- CRM LT TN TO TN, HD DNS TO BRIT, FN TO MD XLNS RE-XLN MTRX, S-SUCRO, TR IMBD FOSS FRG IP, TR IMBD PYR IP, DUL YEL FLO IN 20%, PR INTR XLN POR SCAT THRU, NO VIS CUT OR SHOW
LS & SH INTRBD
1. LS- TN DK TN TO GRY IP, HD DNS TO BRIT, FN XLN SUCRO MTRX, S-CHLKY IP, IMBD FOSS FRG IP, TR IMBD GRY SH IP, LT YEL FLO IN 15%, PR INTR XLN POR IP, NO VIS CUT OR SHOW
2. SH- GRY TO DK GRY, FRM BLKY, SLTY TXT, SLI CALC THRU
SH- GRY TO DK GRY, FRM BLKY, SLTY TXT, CALC IP
LS- TN TO GRY, HD DNS TO BRIT, SM TO MD XLN RE-XLN, S-SUCRO IP, IMBD FOSS FRG SCAT IP, LT YEL FLO IN 20%, PR INTR XLN POR SCAT IP, NO VIS CUT OR SHOW
SH- GRY DK GRY TO DK BRWN, FRM BLKY, SMTH TO SLTY TXT, SLI CALC THRU
LS & SH INTRBDS
1. LS- LT TN TO TN, HD DNS TO BRIT IP, V/FN TO FN XLN SUCRO MTRX, IMBD FOSS FRG IP, IMBD OOL IP, DUL YEL FLO IN 10%, PR INTR FOSS/OOL POR IP, NO VIS CUT OR SHOW
2. SH- DK GRY TO BLCK IP, FRM BLKY TO SPLNTY IP, SMTH TXT, SLI CALC THRU
SH- BRWN GRY DK BRWN TO DK GRY, FRM BLKY, SMTH TO SLTY TXT, SLI CALC
LS- CRM TO LT TN, FRM DNS, FN XLN CHLKY MTRX, S-SUCRO, SFT WHT CHLK IN TRAY, DUL YEL FLO IN 10%, NO VIS POR, NO VIS CUT OR SHOW
LS- TN, HD DNS TO BRIT IP, V/FN TO FN XLN SUCRO MTRX, IMBD FOSS FRG IP, FRSTY TO LT TN CHRT IN TRAY, TR SFT WHT CHLK IN TRAY, BRT YEL FLO IN 10%, NO VIS CUT OR SHOW
LS- TN TO DK TN, HD DNS TO BRIT, V/FN TO FN XLN SUCRO
371 U. POSS SH GAS
1
TG, C1-C5
150
CN
80 U. BG
4
5
3
2
C1
CN
287 U. KICK
CN
270 U. SH
CN
260 U. SH
138 U. SH
CN
4
5
3
2
C1
PITS DUMPED
CN
56 U. BG
CN
1
TG, C1-C5
150


MTRX, RE-XLN IP, CLR TO FRSTY CHRT IN TRAY, DUL YEL FLO IN 10%, PR MICR PP POR IP, NO VIS CUT OR SHOW
105 U.
SH- GRY DK GRY TO BLCK IP, FRM BLKY, SMTH TXT, SLI CALC
CN
85 U. SH
WOB 29.1
RPM 122
PP 2371
86 U. BG
WT 8.9
VIS 56
LCM 4
LS- CRM LT TN TO TN, HD DNS TO BRIT IP, V/FN TO FN XLN MTRX, IMBD FOSS FRG IP, DUL YEL FLO IN 20%, NO VIS POR, NO VIS CUT OR SHOW
C1
3
2
4
5
CN
MORROW 5273' -2302'SS
SH- GRY DK GRY TO TR BLCK, FRM SPLNTY TO BLKY, SMTH TO SLTY TXT
156 U. POSS SHOW
CN
MORROW 5301' -2330'
LS- LT TN TN TO DK TN (NO VIS OIL STN), HD DNS TO BRIT, FN XLN SUCRO MTRX, BRT YEL GLD FLO IN 40%, PR MICRO PP POR IP, PR INTR XLN POR IP, PR FLSH CUT, PR TO FR SLW STRM IN 25%, FR RING CUT ON DISH, NO OIL ODOR
SH- LT GRY GRY TO DK GRY, FRM BLKY TO SPLNTY, SMTH TO SLTY TXT, SLI CALC THRU
CN
LS- CRM LT TN TO TN, HD DNS TO BRIT IP, SM TO MD XLN RE-XLN MTRX, S-SUCRO IP, TR IMBD GLAUC IP, TR IMBD PYR CLSTR IP, DUL YEL FLO IN 25%, PR INTR XLN POR IP, NO VIS CUT OR SHOW
WOB 29.3
RPM 124
PP 2523
WT 8.9
VIS 56
LCM 4
C1
3
2
5
4
CN
129 U. CN
SH- LT GRN LT GRY TO DK GRY, FRM BLKY TO SPLNTY, SLI CALC THRU
CN
LS- TN TO DK TN, HD DNS, V/FN TO FN XLN, RE-XLN IP, IMBD FOSS FRG IP, TR IMBD GLAUC IP, TR IMBD DISS PYR IP, NO VIS FLO, PR INTR XLN POR IP, NO VIS CUT OR SHOW
155 U. CN
TG, C1-C5
150
CN
SS- FRSTY TO LT GRY, HD TT TO FRI, ABDT V/FN TO FN S-ANG
5250
5300
5350
5400
0
ROP (min/ft)
5
0
Gamma (API)
150
CHESTER 5412' -2241'


WOB 29.3
RPM 124
PP 2523
WT 8.9
VIS 56
LCM 4
WOB 16.4
RPM 184
PP 2410
WT 9.1
VIS 52
LCM 4
ST GEN 5593' -2622'
WOB 27.1
0
ROP (min/ft)
5
0
Gamma (API)
150
5450
5500
5550
5600
TO ANG QRTZ GRNS, WLL SRT, SIL TO SLI CALC CMNT, TR IMBD PYR IP, NO VIS FLO, PR TO FR INTR GRN POR THRU, NO VIS CUT OR SHOW
LS- LT TN TO TN, HD DNS TO BRIT IP, FN XLN SUCRO MTRX, ABDT IMBD FN TO SM ANG TO S-ANG QRTZ GRNS THRU, NO VIS FLO, PR INTR GRN POR SCAT THRU, NO VIS CUT OR SHOW
SH- GRY TO DK GRY, SFT GMMY TO FRM SPLNTY, CALC IP
SH- GY TO DK GRY, FRM SPLNTY TO BLKY, SMTH TO SLTY TXT, SLI CALC, TR SANDY LS IN TRAY
SH- GRY TO DK GRY, FRM SPLNTY TO BLKY, SILTY TO GRNY TXT, SLI CALC THRU, TR IMBD LS GRNS, TR SANDY LS IN TRAY, SLI TR PYR CLSTR IN TRAY
SS- WHT TO OFF WHT, HD TT TO FRI IP, ABDT FN TO SM S-ANG TO S-RND QRTZ GRNS, WLL SRT, SIL TO TR CALC CMNT, IMBD PYR CLSTR SCAT IP, SLI TR IMBD DISS SH IP, NO VIS FLO, PR TO FR INTR GRN POR THRU, NO VIS CUT OR SHOW
ST GEN 5582' -2611'SS
LS- OFF WHT TO CRM, HD DNS TO BRIT, FN XLN SUCRO MTRX, ABDT IMBD V/FN QRTZ GRNS THRU, ABDT IMBD MICRO OOL THRU, NO VIS FLO, PR INTR GRN/OOL POR THRU, NO VIS CUT OR SHOW
ST. LOUIS 5613' - 2642'
LS- WHT OFF WHT CRM, HD IP TO SFT, MED-XLN , IMBD FOSS FRGS IP, TR SCAT MICRO OOLITES , ABDT FRM WHT CHLK IMBD IP, TRANSLCNT TAN CHERT IP, NO FLO, NO VIS POR, NO VIS SHOW OR CUT
102 U.
CN
C1
65 U. BG
CN
CN
105 U. CN
CN
81 U. CN
C1
70 U. BG
CN
88 U. CN
1
TG, C1-C5
150
CN
77 U. BG
EXTRACTOR REMOVED FROM TRAP BOX BY RIG HANDS
C1
CN
DUMPING PITS / RUN IN PREMIX


RPM 87
PP 2221
WT 8.8
VIS 56
LCM 3
5650
5700
LS- OFF WHT CRM BFF- HD TO BRITT, MED-XLN RE-XLN MTRX, IMBD SMLL OOLITES IP, V/ S-CHLKYIP, TAN TRANSLCNT CHERT, V/V/DLL YEL FLO IP, NO VIS POR, NO VIS SHOW OR CUT
LS- OFF WHT CRM BFF- HD TO BRITT, MED-XLN RE-XLN MTRX, IMBD SMLL OOLITES IP, V/ S-CHLKYIP, TAN TRANSLCNT CHERT, V/V/DLL YEL FLO IP, NO VIS POR, NO VIS SHOW OR CUT
38 U. BG
CN
27 U. BG
CN
R.T.D. @ 5698'
L.T.D. @ 5698
RTD @ 5698' 5:10 PM 10/17/19
CTCH 1 HOUR
WIPER TRIP TO 4100'
CTCH 1.5 HOURS / TOFL
HALLIBURTON
R.T.D. @ 5698'
SAMPLES WILL BE DELIVERED TO KGS
THANK YOU FOR CHOOSING EARTH TECH
AARON SUELTER