

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 # \_\_\_\_\_

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

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: \_\_\_\_\_

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>

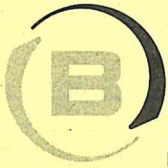
TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Stelbar Oil Corporation, Inc.
Well Name	UMMEL BROTHERS TRUST 1-26
Doc ID	1373255

All Electric Logs Run

Array Induction Shallow Focused Log
Comp. Sonic w/Integrated Transit Time Log
Compact Photo Density Comp. Neutron Microresistivity Log
Microresistivity Log
Caliper Log





**BASIC**<sup>SM</sup>  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61  
P.O. Box 8613  
Pratt, Kansas 67124  
Phone 620-672-1201

TTMH 34 ✓  
FIELD SERVICE TICKET  
1718 13990 A

DATE \_\_\_\_\_ TICKET NO. \_\_\_\_\_

DATE OF JOB: 10/2/17		DISTRICT		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/>		PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/>		CUSTOMER ORDER NO.:	
CUSTOMER: Stelbar Oil Corp Inc.				LEASE: Ummel Broth Trust				WELL NO. 1-2	
ADDRESS				COUNTY: Ness		STATE: KS			
CITY				STATE		SERVICE CREW: Scott, McGinnis, P.ley			
AUTHORIZED BY: Andy				JOB TYPE: 8 5/8 Surface Pipe 242					
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM PM	TIME
80779	.5					ARRIVED AT JOB	10/2/17	AM	7:00
19800	.3					START OPERATION	10/2/17	AM	10:35
						FINISH OPERATION	10/2/17	AM	11:05
						RELEASED	10/2/17	AM	11:30
						MILES FROM STATION TO WELL			

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: X Andy Deibel  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT	
CP103	60/40 POZ	SK	215		2580.00	
CC107	Cellof tube	lb	56		207.20	
CC109	Calcium Chloride	lb	555		582.75	
CF1753	Centralizer 55/8	EA	1		90.00	
E100	Unit Mileage Pick up	Mi	100		450.00	
E101	Heavy Equipment Mileage	Mi	200		1500.00	
E115	Prop + Bulk Delivery	YM	925		2312.50	
CE200	Depth Charge 0-500'	Yb	1		1000.00	
CE240	Blend + Mix Secu Charge	SK	215		301.00	
CE504	Plug Container	Job	1		250.00	
SC03	Service Supervisor	EA	1		175.00	
					SUB TOTAL	9448.45

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		4062.8

SERVICE REPRESENTATIVE: <u>[Signature]</u>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <u>X Andy Deibel</u>
FIELD SERVICE ORDER NO.	(WELL OWNER OPERATOR CONTRACTOR OR AGENT)



**BASIC**<sup>SM</sup>  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61  
P.O. Box 8613  
Pratt, Kansas 67124  
Phone 620-672-1201

77 M 11 34  
**FIELD SERVICE TICKET**  
1718 13990 A

DATE \_\_\_\_\_ TICKET NO. \_\_\_\_\_

DATE OF JOB 10/2/17		DISTRICT		NEW WELL <input type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:					
CUSTOMER Stellar Oil Corp Inc		LEASE Campbell		WELL NO. 1					
ADDRESS		COUNTY Ness		STATE KS					
CITY		STATE		SERVICE CREW Smith, McGinnis, Riley					
AUTHORIZED BY A		JOB TYPE: Ssk Surface Pw 242							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM PM	TIME
50775	25					ARRIVED AT JOB	10/2/17	AM	7:00
19200	23					START OPERATION	10/2/17	AM	10:30
						FINISH OPERATION	10/2/17	AM	11:05
						RELEASED	10/2/17	AM	11:30
						MILES FROM STATION TO WELL			

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

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SIGNED: X A. S. O. R.  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
24163	11/4" P02	SK	215		25 80 00
24162	Collar pipe	11	50		207 20
24149	Collar pipe	11	555		582 75
24175	Collar pipe	11	1		90 00
F140	Hourly equipment	M	110		450 00
F101	Hourly equipment	M	210		1500 00
F115	Hourly equipment	M	505		2312 50
24200	Collar pipe	11	1		1000 00
24206	Collar pipe	11	215		311 00
24201	Collar pipe	11	1		250 00
2413	Collar pipe	11	1		175 00
SUB TOTAL					7448 95

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$		
MATERIALS	%TAX ON \$		
TOTAL		4002	3

SERVICE REPRESENTATIVE	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <u>X A. S. O. R.</u>
------------------------	--

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.







77m 11/18



**BASIC**<sup>SM</sup>  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61  
P.O. Box 8613  
Pratt, Kansas 67124  
Phone 620-672-1201

FIELD SERVICE TICKET  
1718 15480 A

26-165 22w

DATE \_\_\_\_\_ TICKET NO. \_\_\_\_\_

DATE OF JOB: 10/14/2011		DISTRICT: P1511185		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:						
CUSTOMER: Stripper Oil Co., Inc.		LEASE: Ummel Brothers Trust		WELL NO. 1-10						
ADDRESS:		COUNTY: Ness		STATE: KS						
CITY:		STATE:		SERVICE CREW: Devin, P. McC... Devin, M. Cly...						
AUTHORIZED BY:		JOB TYPE: 2421 PTA								
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
19843	2						10/13			4:00
73769	1/2						10/13			8:00
							10/14			3:00
							10/14			7:00
							10/14			8:00
						MILES FROM STATION TO WELL: 119				

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

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SIGNED: [Signature]  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT	
CP103	60140 P02	SK	230		2,766.00	
CC102	Cellophane	Lb	58		214.60	
CC200	Cement Gel	Lb	396		99.00	
F100	Unit mileage Charge - P. 10/13, 10/14/2011	m	100		450.00	
F101	Nesby Equipment mileage	m	200		1,500.00	
F113	Proppant and Bulk Delivery charge, per ton	lb/ton	990		2,475.00	
CF102	Devin Charge @ 1,000' - 2,000'	4hrs	1		1,500.00	
CF240	Blend as directed Secure Charge	SK	230		322.00	
S003	Secure Supervisory Fee - 8 hrs. center	Fg	1		175.00	
					SUB TOTAL	9,495.60

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		4,083.11

SERVICE REPRESENTATIVE: [Signature] THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: [Signature]

FIELD SERVICE ORDER NO. \_\_\_\_\_ (WELL OWNER OPERATOR CONTRACTOR OR AGENT)

# BASIC

energy services, L.P.

## TREATMENT REPORT

Customer Stelbco Oil Corp. Inc.		Lease No.		Date 10/14/2017	
Lease Dammel Brothers Trust		Well # 1-26			
Field Order # 13480	Station Pratt, KS	Casing	Depth	County Ness	State
Type Job 2471 PTA			Formation	Legal Description 26-163-22w	

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
4 1/2							
Depth 1680	Depth	From	To	Pre Pad	Max		5 Min.
Volume 23.8	Volume	From	To	Pad	Min		10 Min.
Max Press	Max Press	From	To	Frac	Avg		15 Min.
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth	Packer Depth	From	To	Flush Freshwater	Gas Volume		Total Load

Customer Representative Andy		Station Manager Justin Westheim		Treater Darin Franklin	
Service Units	92911	84981	19843	19903	73764
Driver Names	Darin	McCraw	McCraw	Dillon	Dillon

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
8:30pm					on location / set up meeting
10:10					1680'
5:00pm	200		8	4	8 water
	200		13	4	13 bbls cement 60/40 P02
	200		17	4	17 water
					990'
	200		15	4	15 bbls water
	200		20	4	20 bbls 60/40
	200		5	4	5 water
					330'
	100		3	4	3 water
	100		13	4	13 bbls cement
	100		1	4	1 water
					60'
	50		5	3	5 bbls 60/40
					per hole
	50		7	3	7 bbls 60/40
7:00pm					Job complete / Darin & crew

# GEOLOGIC REPORT

## DAVID J. GOLDAK

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

Well Name: Ummel Brothers Trust #1-26  
Location: Section 26 - T16S - R22W  
License Number: API: 15-135-25973  
Spud Date: 10 / 02 / 2017  
Surface Coordinates: 1162' FSL and 335' FEL  
NW - NE - SE - SE  
Region: Ness Co., KS  
Drilling Completed: 10 / 13 / 2017  
Bottom Hole Coordinates:  
Ground Elevation (ft): 2351' K.B. Elevation (ft): 2356'  
Logged Interval (ft): 3700' To: 4435' Total Depth (ft): 4435'  
Formation: Mississippian  
Type of Drilling Fluid: Chemical - Mud-Co

Printed by WellSight Log Viewer from WellSight Systems 1-800-447-1534 [www.WellSight.com](http://www.WellSight.com)

### OPERATOR

Company: Stelbar Oil Corporation  
Address: 1625 N. Waterfront Pkwy., Suite 200  
Wichita, Kansas 67206-6602

### GEOLOGIST

Name: David J. Goldak  
Company: D. J. GOLDAK, INC.  
Address: 12427 W Ridgepoint Cir  
Wichita, Kansas 67235

### General Info

CONTRACTOR: Murfin Drilling, Rig #16

#### BIT RECORD:

No.	Size	Make	Jets	Out	Feet	Hours
1	12-1/4	Reed-TC11-RR	3-15s	304	304	4.75
2	7-7/8	HTC-GX20C	18-16-16	4435	4131	97.25

SURVEYS: 304'-0.25, 4435'-

#### GENERAL DRILLING & PUMP INFORMATION:

Drilling with 17 collars (6.25"x2.25"): 496.55'  
Drilling with 35,000-36,000 lbs on bit and 75-80 RPM.  
Pumping 62 S/M; 8.0 B/M; 800-900 psi at standpipe.



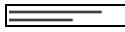

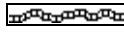



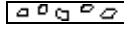








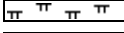







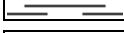
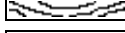

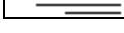

## Daily Status

10/02/17 - Spud at 4:00 PM; Set 8-5/8" csg @ 302'  
 10/03/17 - 304' WOC; DP @ 7:00 AM  
 10/04/17 - 2,090' TOH @ 2,597' due to heavy rain  
 10/05/17 - 2,597' Down; More rain; cannot fill fresh water pit  
 10/06/17 - 2,597' Down  
 10/07/17 - 2,597' Down  
 10/08/17 - 2,597' Down  
 10/09/17 - 2,597' Down  
 10/10/17 - 2,597' TIH; Drilling @ 11:15 AM  
 10/11/17 - 3,170' Drilling; Displace mud @ 3,300'  
 10/12/17 - 3,860' Drilling; Wiper trip @ 4,213'  
 10/13/17 - 4,270' Drilling; TD @ 4,435'; Log well






















































































## DSTs

None

## ROCK TYPES

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

## ACCESSORIES

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

### OTHER SYMBOLS

#### POROSITY TYPE

- E Earthy
- F Fenest
- X Fracture
- I Inter
- M Moldic
- O Organic
- P Pinpoint
- V Vuggy

#### SORTING

- W Well
- M Moderate
- P Poor

#### ROUNDING

- R Rounded
- F Subrnd
- a Subang
- A Angular

#### OIL SHOWS

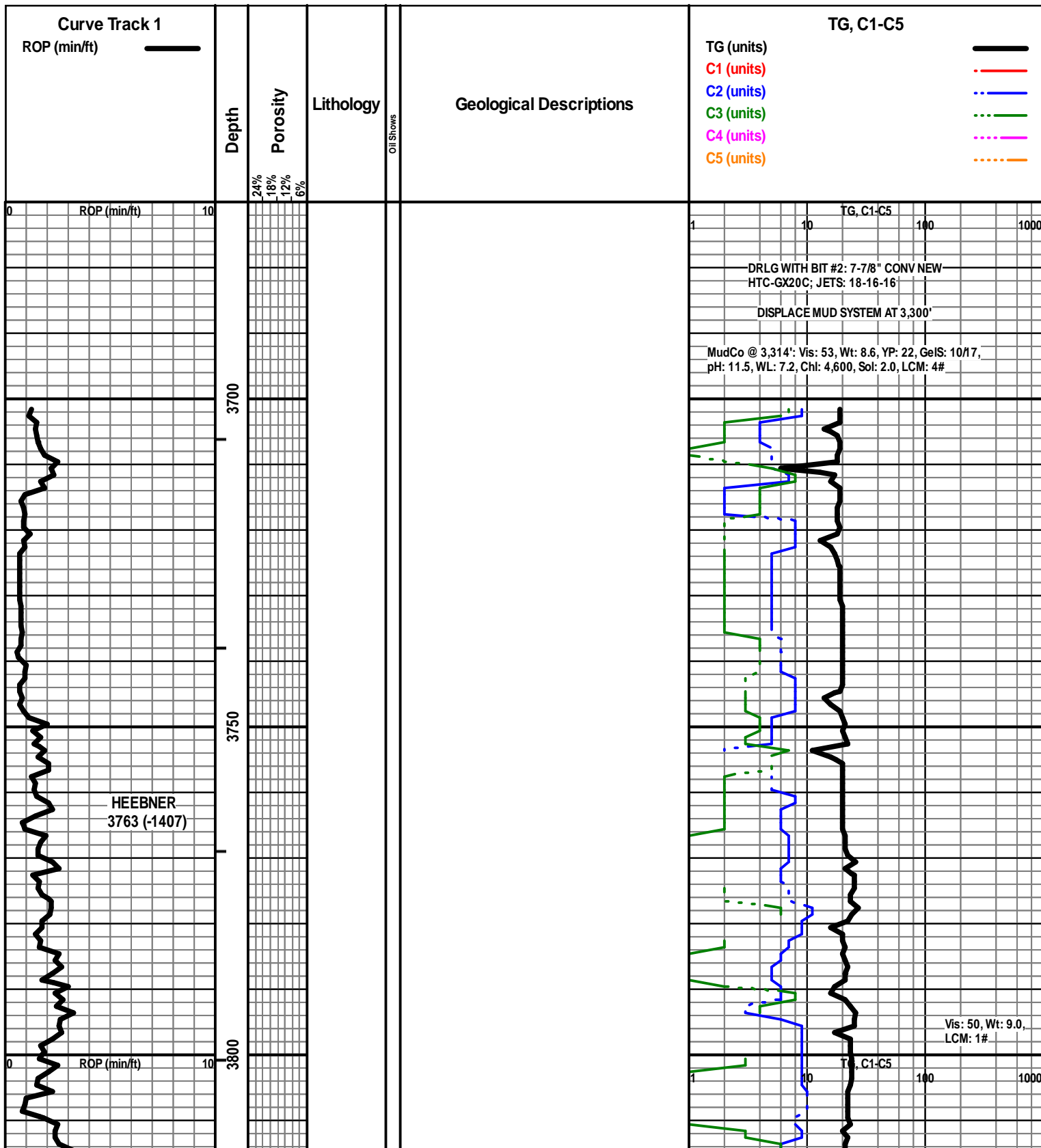
- Even
- ◉ Spotted
- ◌ Ques
- ◐ Dead
- ◑ Gas show

#### INTERVALS

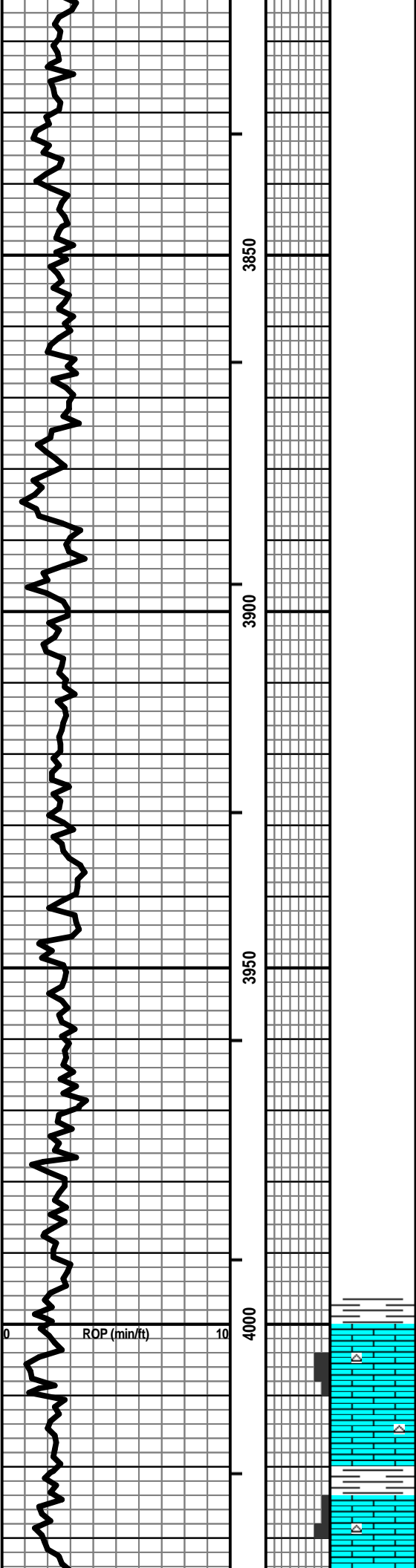
- Core
- ◻ Dst

- ▣ Dst\_1\_t
- ▢ Dst\_1\_b
- ▣ Dst

- #### EVENTS
- ▽ Rft
  - ▾ Sidewall
  - ▬ Conn

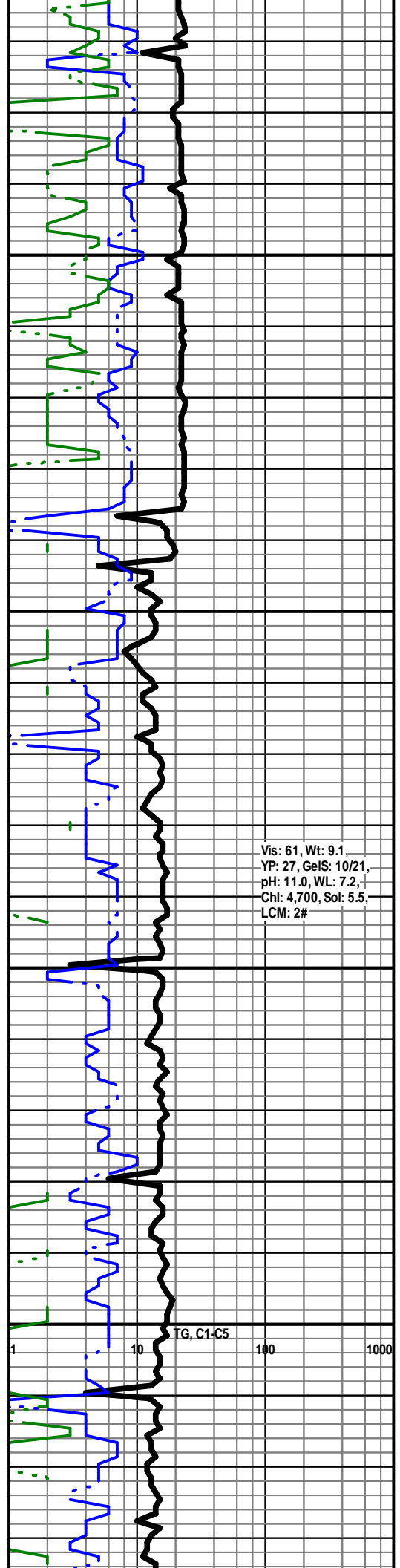


HEEBNER  
3763 (-1407)

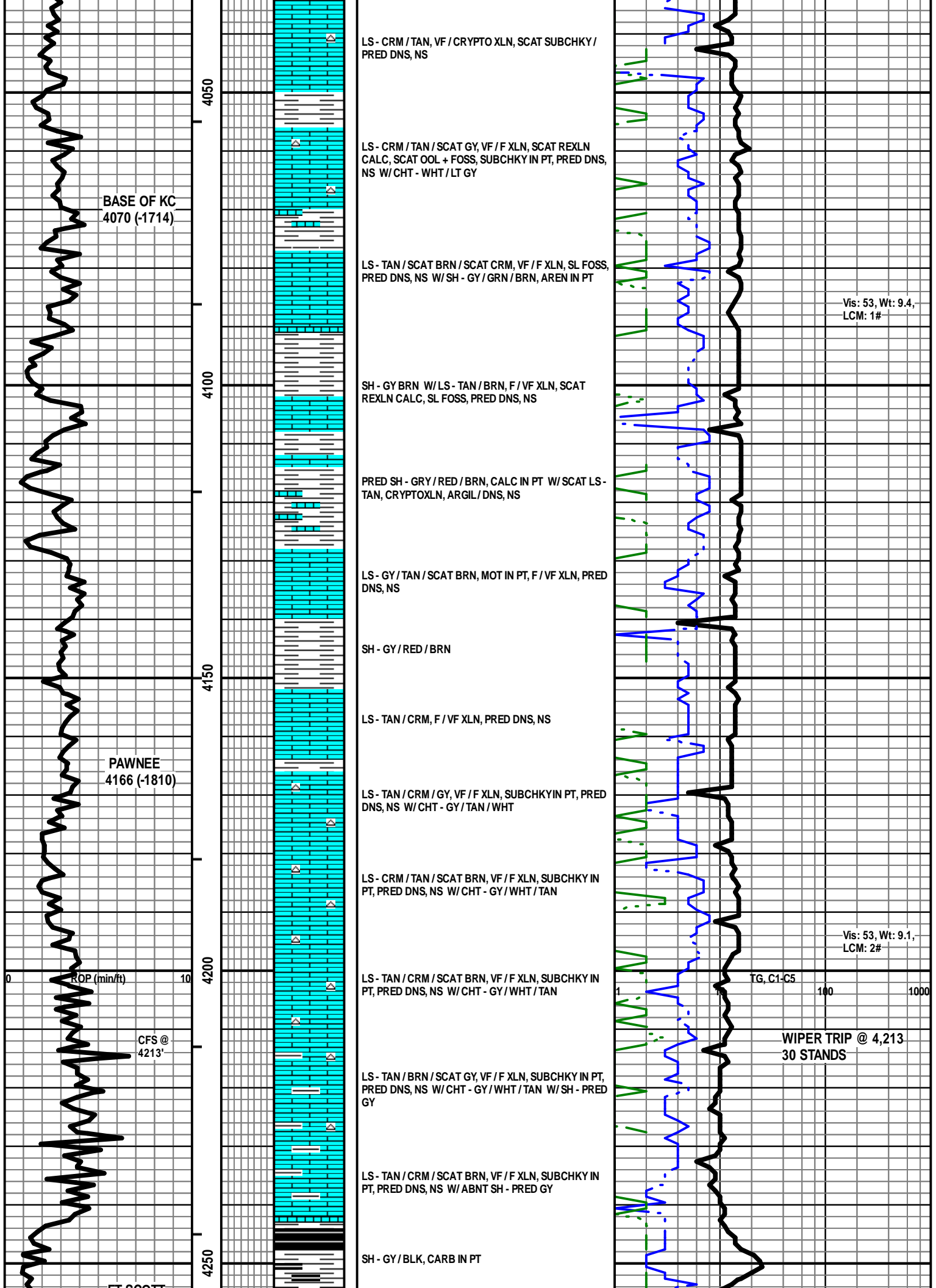


LS - CRM / TAN / SCAT BRN, VF / F XLN, SCAT REXLN  
 CALC. OOL + FOSS IN PT, SCAT P / F VUG + OOM POR,  
 NS W/ CHT - WHT / LT GY

LS - CRM / TAN, F . VF XLN, OOL IN PT, SCAT P / F VUG  
 + INTXLN POR, NS W/ SCAT CHT - LT GY / WHT



Vis: 61, Wt: 9.1,  
 YP: 27, GeIS: 10/21,  
 pH: 11.0, WL: 7.2,  
 Chl: 4,700, Sol: 5.5,  
 LCM: 2#



BASE OF KC  
4070 (-1714)

PAWNEE  
4166 (-1810)

CFS @  
4213'

LS - CRM / TAN, VF / CRYPTO XLN, SCAT SUBCHKY / PRED DNS, NS

LS - CRM / TAN / SCAT GY, VF / F XLN, SCAT REXLN CALC, SCAT OOL + FOSS, SUBCHKY IN PT, PRED DNS, NS W/ CHT - WHT / LT GY

LS - TAN / SCAT BRN / SCAT CRM, VF / F XLN, SL FOSS, PRED DNS, NS W/ SH - GY / GRN / BRN, AREN IN PT

SH - GY BRN W/ LS - TAN / BRN, F / VF XLN, SCAT REXLN CALC, SL FOSS, PRED DNS, NS

PRED SH - GRY / RED / BRN, CALC IN PT W/ SCAT LS - TAN, CRYPTOXLN, ARGIL / DNS, NS

LS - GY / TAN / SCAT BRN, MOT IN PT, F / VF XLN, PRED DNS, NS

SH - GY / RED / BRN

LS - TAN / CRM, F / VF XLN, PRED DNS, NS

LS - TAN / CRM / GY, VF / F XLN, SUBCHKY IN PT, PRED DNS, NS W/ CHT - GY / TAN / WHT

LS - CRM / TAN / SCAT BRN, VF / F XLN, SUBCHKY IN PT, PRED DNS, NS W/ CHT - GY / WHT / TAN

LS - TAN / CRM / SCAT BRN, VF / F XLN, SUBCHKY IN PT, PRED DNS, NS W/ CHT - GY / WHT / TAN

LS - TAN / BRN / SCAT GY, VF / F XLN, SUBCHKY IN PT, PRED DNS, NS W/ CHT - GY / WHT / TAN W/ SH - PRED GY

LS - TAN / CRM / SCAT BRN, VF / F XLN, SUBCHKY IN PT, PRED DNS, NS W/ ABNT SH - PRED GY

SH - GY / BLK, CARB IN PT

Vis: 53, Wt: 9.4,  
LCM: 1#

Vis: 53, Wt: 9.1,  
LCM: 2#

TG, C1-C5  
100 1000

WIPER TRIP @ 4,213  
30 STANDS

ROP (min/ft)  
0 10

FT SCOTT  
4256 (-1900)

CHER SH  
4268 (-1912)

CFS @ 4285'

MISSISSIPPIAN  
4376 (-2020)

ROP (min/ft)

4300

4350

4400

4450

LS - CRM / TAN, VF / F XLN, SCAT FOSS + OOL,  
SUBCHKY IN PT, PRED DNS, NS W/ ABNT SH - GY/  
GRN / SCAT BLK

ABNT SH - PRED GY, SLTYIN PT

PRED SH - GY, SLTYIN PT, SCAT BLK + CARB W/ TR  
SS CLSTRS - GY / GRN, F / M GR, SR, CLAYEY / ARGIL,  
NO POR, NS

PRED SH - GY / SCAT RED, SLTYIN PT

SH - AS ABOVE W/ MOD AMT LS - TAN / CRM / BRN, VF  
/ F XLN, SL FOSS, PRED DNS, NS W/ SCAT SS CLSTRS -  
GY / GRN, F / M GR, SR, CLAYEY / ARGIL, NS

PRED SH - GY / SCAT RED + GRN, SLTYIN PT W/ SCAT  
LS - V SIM TO ABOVE, NS

PRED SH - GY / SCAT RED + GRN, SLTYIN PT W/ SCAT  
LS - TAN / GY, VF XLN, SL FOSS, ARGIL / DNS, NS

PRED SH - GY / SCAT RED + GRN W/ SCAT LS - V SIM  
TO ABOVE, NS W/ SCAT CHT - GY / TAN

PRED SH - GY / RED W/ SCAT CHT - VARICOL W/ SCAT  
SS - LT GY / WHT, VF GR, SA, SIL, NO VIS POR, NS

PRED SH - GY / RED W/ CHT - VARICOL W/ SCAT SS -  
AS ABOVE, NS

PRED CHT - WHT / LT GY, VIT / FRESH, NS W/ TR DOLO  
- CRM, F XLN, PRED DNS, NS W/ MOD AMT SH - GY /  
RED (CAVINGS?)

CHT - PRED WHT / LT GY, VIT / FRESH, NS W/ TR DOLO  
- CRM, F XLN, PRED DNS, NS

CHT - PRED WHT / LT GY, VIT / FRESH, NS W/ SCAT  
DOLO - CRM, F XLN, PRED DNS, NS

CHT - PRED WHT / LT GY, VIT / FRESH, NS W/ SCAT  
DOLO - CRM, F XLN, PRED DNS, NS

TOTAL DEPTH 4435 (-2079)

Vis: 53, Wt: 9.3,  
YP: 25, GeIS: 10/17,  
pH: 11.0, WL: 7.2,  
Chl: 4,600, Sol: 6.9,  
LCM: 2#

TG, C1-C5

Vis: 63, Wt: 9.3,  
LCM: 2#

