

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](mailto: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)*

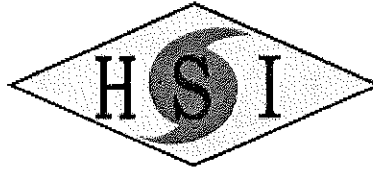
Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water 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)</i> <i>(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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# HURRICANE SERVICES INC

Remit To: Hurricane Services, Inc.  
250 N. Water, Suite 200  
Wichita, KS 67202  
316-303-9515

Customer:  
VAL ENERGY, INC.  
125 N MARKET  
STE 1710  
Wichita, KS 67202

Invoice Date: 9/2/2023  
Invoice #: 0370973  
Lease Name: Miller  
Well #: 1-20 (New)  
County: Cowley, Ks  
Job Number: EP10353  
District: Eureka

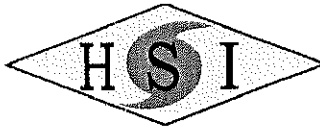
Date/Description	HRS/QTY	Rate	Total
Longstring	0.000	0.000	0.00
Heavy Equipment Mileage	80.000	4.000	320.00
Light Eq Mileage	80.000	2.000	160.00
Ton Mileage	970.000	1.500	1,455.00
Depth Charge 3001'-4000'	1.000	2,250.000	2,250.00
H842 Thickset	100.000	27.500	2,750.00
Cement Pozmix 60/40	135.000	16.000	2,160.00
Bentonite Gel	700.000	0.400	280.00
KOL Seal	500.000	0.750	375.00
Pheno Seal	470.000	1.750	822.50
KCL-CS701	2.000	30.000	60.00
Centralizers 5 1/2"	5.000	60.000	300.00
Cement baskets 5 1/2"	1.000	300.000	300.00
5 1/2" Floatshoe-Flapper AFU	1.000	375.000	375.00
5 1/2" LD Plug & Baffle	1.000	350.000	350.00
Service Supervisor	1.000	275.000	275.00

**Total** 12,232.50

**TERMS:** Net 30 days. Interest may be charged on past due invoice at rate of 1 ½% per month or maximum allowed by applicable state or federal laws. HSI has right to revoke any discounts applied in arriving at net invoice price if invoice is past due. If revoked, full invoice price without discount plus additional sales tax, as applicable, is due immediately and subject to interest charges. Customer agrees to pay all collection costs directly or indirectly incurred by HSI in the event HSI engages a third party to pursue collection of past due invoice.

**SALES TAX:** Services performed on oil, gas and water wells in Kansas are subject to sales tax, with certain exceptions. HSI relies on the well information provided by the customer in identifying whether the services performed on wells qualify for exemption.

**WE APPRECIATE YOUR BUSINESS!**



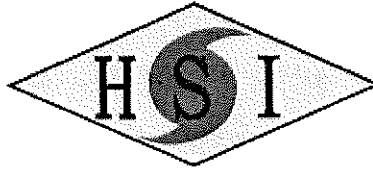
<b>Customer</b> Val Energy		<b>Lease &amp; Well #</b> Miller # 1-20		<b>Date</b> 9/2/2023		
<b>Service District</b> Eureka		<b>County &amp; State</b> Cowley - KS		<b>Legals S/T/R</b> 20-32S-6E		
<b>Job Type</b> Longstring		<input checked="" type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> SWD		<input checked="" type="checkbox"/> YES <input type="checkbox"/> No		
<b>Equipment #</b>		<b>Driver</b>		<b>Job #</b> EP10353		
1004 Kevin M		1201 Alan M.		1210 Russell M		
1213 Steve M						
<b>Job Safety Analysis - A Discussion of Hazards &amp; Safety Procedures</b>						
<input checked="" type="checkbox"/> Hard hat		<input checked="" type="checkbox"/> Gloves		<input type="checkbox"/> Lockout/Tagout		
<input checked="" type="checkbox"/> H2S Monitor		<input checked="" type="checkbox"/> Eye Protection		<input type="checkbox"/> Required Permits		
<input checked="" type="checkbox"/> Safety Footwear		<input type="checkbox"/> Respiratory Protection		<input checked="" type="checkbox"/> Slip/Trip/Fall Hazards		
<input checked="" type="checkbox"/> FRC/Protective Clothing		<input type="checkbox"/> Additional Chemical/Acid PPE		<input checked="" type="checkbox"/> Overhead Hazards		
<input checked="" type="checkbox"/> Hearing Protection		<input checked="" type="checkbox"/> Fire Extinguisher		<input type="checkbox"/> Additional concerns or issues noted below		
				<input type="checkbox"/> Warning Signs & Flagging		
				<input type="checkbox"/> Fall Protection		
				<input checked="" type="checkbox"/> Specific Job Sequence/Expectations		
				<input checked="" type="checkbox"/> Muster Point/Medical Locations		
<b>Comments</b>						
API # 15-035-24788						
<b>Product/ Service Code</b>						
<b>Description</b>						
<b>Unit of Measure</b>						
<b>Quantity</b>						
<b>Net Amount</b>						
M010	Heavy Equipment Mileage	mi	80.00		\$320.00	
M015	Light Equipment Mileage	mi	80.00		\$180.00	
M020	Ton Mileage	tm	970.00		\$1,455.00	
D014	Depth Charge: 3,000' - 4,000'	job	1.00		\$2,250.00	
CP062	H842 Thickset	sack	100.00		\$2,750.00	
CP070	60/40 Poz A	sack	135.00		\$2,160.00	
CP095	Bentonite Gel	lb	700.00		\$280.00	
CP110	Kol Seal	lb	500.00		\$375.00	
CP125	Pheno Seal	lb	470.00		\$822.50	
AF055	Liquid KCL Substitute	gal	2.00		\$60.00	
FE125	5 1/2" Centralizer	ea	5.00		\$300.00	
FE130	5 1/2" Cement Basket	ea	1.00		\$300.00	
FE145	5 1/2" Float Shoe - AFU Flapper Type	ea	1.00		\$375.00	
FE170	5 1/2" Latch Down Plug & Baffle	ea	1.00		\$350.00	
R061	Service Supervisor	day	1.00		\$275.00	
<b>Customer Section: On the following scale how would you rate Hurricane Services Inc.?</b>					<b>Net:</b>	\$12,232.50
Based on this job, how likely is it you would recommend HSI to a colleague?					<b>Total Taxable</b>	\$ -
<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9 <input type="checkbox"/> 10					<b>Tax Rate:</b>	
State tax laws deem certain products and services used on new wells to be sales tax exempt. Hurricane Services relies on the customer provided well information above to make a determination if services and/or products are tax exempt.					<b>Sale Tax:</b>	\$ -
					<b>Total:</b>	\$ 12,232.50
					<b>HSI Representative:</b> Kevin McCoy	

**TERMS:** Cash in advance unless Hurricane Services Inc. (HSI) has approved credit prior to sale. Credit terms of sale for approved accounts are total invoice due on or before the 30th day from the date of invoice. Past due accounts shall pay interest on the balance past due at the rate of 1 1/2% per month or the maximum allowable by applicable state or federal laws. In the event it is necessary to employ an agency and/or attorney to affect the collection, Customer hereby agrees to pay all fees directly or indirectly incurred for such collection. In the event that Customer's account with HSI becomes delinquent, HSI has the right to revoke any discounts previously applied in arriving at net invoice price. Upon revocation, the full invoice price without discount is immediately due and subject to collection. Prices quoted are estimates only and are good for 30 days from the date of issue. Pricing does not include federal, state, or local taxes, or royalties and stated price adjustments. Actual charges may vary depending upon time, equipment, and material ultimately required to perform these services. Any discount is based on 30 days net payment terms or cash. **DISCLAIMER NOTICE:** Technical data is presented in good faith, but no warranty is stated or implied. HSI assumes no liability for advice or recommendations made concerning the results from the use of any product or service. The information presented is a best estimate of the actual results that may be achieved and should be used for comparison purposes and HSI makes no guarantee of future production performance. Customer represents and warrants that well and all associated equipment in acceptable condition to receive services by HSI. Likewise, the customer guarantees proper operational care of all customer owned equipment and property while HSI is on location performing services. The authorization below acknowledges the receipt and acceptance of all terms/conditions stated above, and Hurricane has been provided accurate well information in determining taxable services.

X

**CUSTOMER AUTHORIZATION SIGNATURE**





## HURRICANE SERVICES INC

Remit To: Hurricane Services, Inc.  
250 N. Water, Suite 200  
Wichita, KS 67202  
316-303-9515

Customer:  
VAL ENERGY, INC.  
125 N MARKET  
STE 1710  
Wichita, KS 67202

Invoice Date: 8/25/2023  
Invoice #: 0370736  
Lease Name: Miller  
Well #: 1-20 (New)  
County: Cowley, Ks  
Job Number: EP10208  
District: Eureka

Date/Description	HRS/QTY	Rate	Total
Surface	0.000	0.000	0.00
Heavy Equipment Mileage	75.000	4.000	300.00
Light Eq Mileage	75.000	2.000	150.00
Ton Mileage	742.120	1.500	1,113.18
Cement Pump Service	1.000	1,100.000	1,100.00
Cement Class A	200.000	20.000	4,000.00
Calcium Chloride	565.000	0.750	423.75
Bentonite Gel	375.000	0.450	168.75
Cello Flake	50.000	1.750	87.50

**Total** 7,343.18

**TERMS:** Net 30 days. Interest may be charged on past due invoice at rate of 1 ½% per month or maximum allowed by applicable state or federal laws. HSI has right to revoke any discounts applied in arriving at net invoice price if invoice is past due. If revoked, full invoice price without discount plus additional sales tax, as applicable, is due immediately and subject to interest charges. Customer agrees to pay all collection costs directly or indirectly incurred by HSI in the event HSI engages a third party to pursue collection of past due invoice.

**SALES TAX:** Services performed on oil, gas and water wells in Kansas are subject to sales tax, with certain exceptions. HSI relies on the well information provided by the customer in identifying whether the services performed on wells qualify for exemption.

**WE APPRECIATE YOUR BUSINESS!**



<b>Customer</b> Val Energy		<b>Lease &amp; Well #</b> Miller 1-20		<b>Date</b> 8/25/2023	
<b>Service District</b> Eureka		<b>County &amp; State</b> Cowley - KS		<b>Job #</b>	
<b>Job Type</b> Surface		<input checked="" type="checkbox"/> PROD	<input type="checkbox"/> INJ	<input type="checkbox"/> SWD	<b>Legals S/T/R</b>
				<b>New Well?</b>	<input checked="" type="checkbox"/> YES <input type="checkbox"/> No
<b>Equipment #</b>		<b>Driver</b>		<b>Ticket #</b> EP10208	
1003		David		<b>Job Safety Analysis - A Discussion of Hazards &amp; Safety Procedures</b> <input checked="" type="checkbox"/> Hard hat <input checked="" type="checkbox"/> Gloves <input type="checkbox"/> Lockout/Tagout <input type="checkbox"/> Warning Signs & Flagging <input checked="" type="checkbox"/> H2S Monitor <input checked="" type="checkbox"/> Eye Protection <input type="checkbox"/> Required Permits <input type="checkbox"/> Fall Protection <input checked="" type="checkbox"/> Safety Footwear <input type="checkbox"/> Respiratory Protection <input type="checkbox"/> Slip/Trip/Fall Hazards <input type="checkbox"/> Specific Job Sequence/Expectations <input type="checkbox"/> FRC/Protective Clothing <input type="checkbox"/> Additional Chemical/Acid PPE <input checked="" type="checkbox"/> Overhead Hazards <input type="checkbox"/> Muster Point/Medical Locations <input type="checkbox"/> Hearing Protection <input checked="" type="checkbox"/> Fire Extinguisher <input type="checkbox"/> Additional concerns or issues noted below	
1203		Broker			
1213		Jake			
<b>Comments</b>					
<b>Product/ Service Code</b>					
<b>Description</b>		<b>Unit of Measure</b>		<b>Quantity</b>	
				<b>Net Amount</b>	
M010	Heavy Equipment Mileage	mi	75.00		\$300.00
M015	Light Equipment Mileage	mi	75.00		\$150.00
M020	Ton Mileage	lm	742.12		\$1,113.18
C012	Cement Pump Service	ea	1.00		\$1,100.00
CP010	Class A Cement	sack	200.00		\$4,000.00
CP100	Calcium Chloride	lb	565.00		\$423.75
CP096	Cement Gel	lb	375.00		\$168.75
CP120	Cello-flake	lb	50.00		\$87.50
<b>Customer Section: On the following scale how would you rate Hurricane Services Inc.?</b>					
				<b>Net:</b>	\$7,343.18
				<b>Total Taxable</b>	\$ -
				<b>Tax Rate:</b>	
<b>Based on this job, how likely is it you would recommend HSI to a colleague?</b> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>				State tax laws deem certain products and services used on new wells to be sales tax exempt. Hurricane Services relies on the customer provided well information above to make a determination if services and/or products are tax exempt.	
##### 1 2 3 4 5 6 7 8 9 10 #####					
				<b>Safe Tax:</b>	\$ -
				<b>Total:</b>	\$ 7,343.18
HSI Representative: <i>David Gardner</i>					

Timmy Stack (C&G tool pusher)

**CUSTOMER AUTHORIZATION SIGNATURE**





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

Well Name: Miller 1-20  
API: 15-035-24788  
Location: SE NE NW SW S20-T32S-R6E  
License Number: 5822  
Spud Date: 8/25/23  
Surface Coordinates: 2075' FSL 975' FWL  
Region: Cowley County, KS  
Drilling Completed: 9/1/23

Bottom Hole  
Coordinates:  
Ground Elevation (ft): 1290'      K.B. Elevation (ft): 1299'  
Logged Interval (ft): Surface To: R.T.D.      Total Depth (ft): 3300'  
Formation: Mississippi Lime  
Type of Drilling Fluid: Chemical

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

#### OPERATOR

Company: Val Energy, Inc.  
Address: 125 N Market St STE 1110  
Wichita, KS 67202

#### GEOLOGIST

Name: Brandon Wolfe  
Company: Lone Wolf Well Logging, LLC  
Address: 1016 N Biddle St  
Moline, KS 67353

#### CONTRACTORS

Drilling Rig: C&G Drilling Rig 2  
Drilling FLuids: Mud Co.  
Open Hole Loge: Osage Wireline  
Cement: HSI




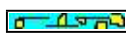



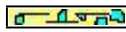









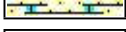


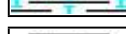






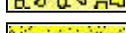

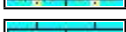
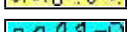

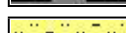
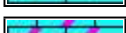
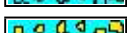




#### COMMENTS

5 1/2" Casing was ran to bottom and cemented in place to futher evaluate the Mississippi Formation

<b>Well</b>	Miller 1-20
<b>G.L.</b>	1217'
<b>K.B.</b>	1226'

<b>Formation</b>	<b>Sample</b>		<b>Log</b>	
<b>Iatan</b>	1845	-546	1844	-545
<b>Stalnaker</b>	1920	-621	1886	-587
<b>Layton</b>	2280	-981	2278	-979
<b>Kansas City</b>	2430	-1131	2430	-1131
<b>Marmaton</b>	2640	-1341	2644	-1345
<b>Cherokee</b>	2787	-1488	2778	-1479
<b>Mississippi</b>	3043	-1744	3040	-1741
<b>Total Depth</b>	3300	-2001	3297	-1998

### ROCK TYPES

	Anhydrite		Siltstone_ii		Shaly_ls		Shaly_sdy_carb_wa
	Arkose		Shaly_ss		Carb_shaly_ls		Shaly_limy_qtz_wa
	Ark_shale		Shaly_ss_ii		Cherty_ls		Shaly_limy_qtz_wa
	Granite		Sandstone		Chert		Limy_qtz_wash
	Coal		Shaly_limy_ss		Cherty_dolo		Limy_qtz_wash_ii
	Limy_sh		Washy_limy_ss		Dolomite		Limy_qtz_wash_iii
	Shale		Limy_ss		Limy_dolo		Qtz_wash
	Hot_shale		Sdy_ls		Conglomerate		Argil_qtz_wash
	Hot_shale_ii		Limestone		Carb_wash		Ark_qtz_wash
	Siltstone		Dolo_ls		Sdy_carb_wash		

## ACCESSORIES

### FOSSIL

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

### MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Breclfrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr

- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff

- Sandy ls str
- Shale
- Siltstone
- Sandstone

### STRINGER

- Arkosic inclusion
- Chert inclusion
- Anhydrite
- Arkosic qtz str
- Arkosic qtz str ii
- Arkosic str
- Arkosic str ii
- Carb wash str
- Sandy carb wash str
- Coal/carb sh
- Dolomite
- Granite str
- Limestone
- Limy ss str
- Qtz wash str
- Limy qtz wash str

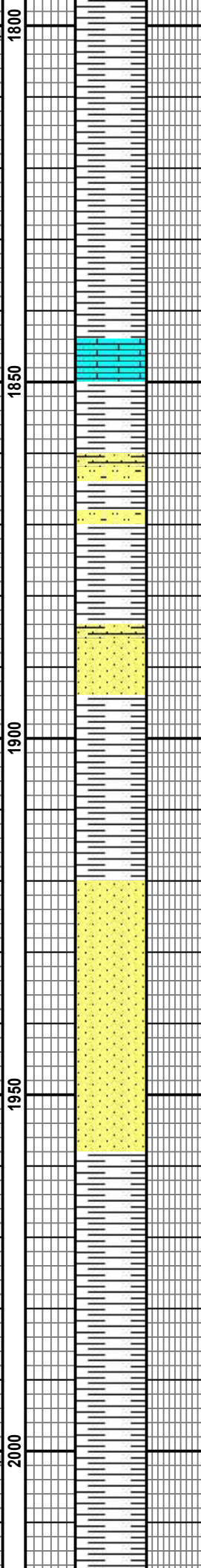
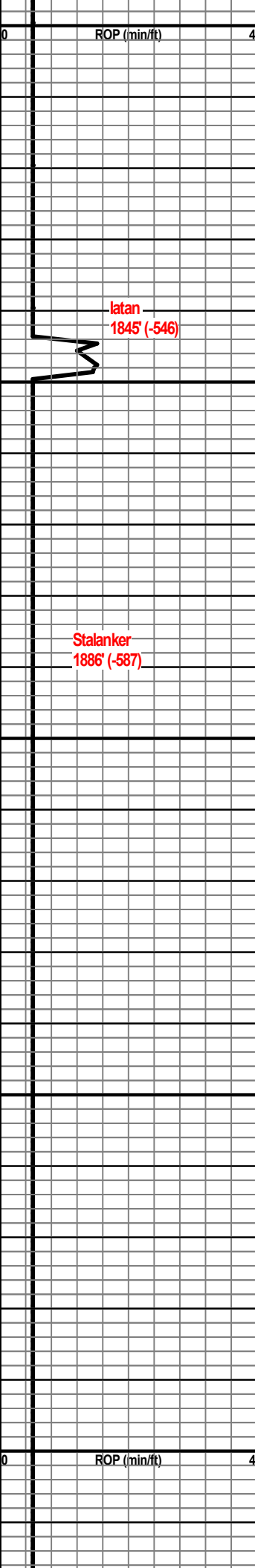
### TEXTURE

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

### OIL SHOW

- Even
- Spotted
- Ques
- Gas show
- Dead

Penetration Rate ROP (min/ft)	TVD	Porosity 24% 4%	Lithology	Oil Shows	Geological Descriptions	Oil Shows	Remarks
<p>ROP (min/ft)</p> <p style="color: blue;">Note: Depth Scale is 0-4 min/ft</p>	<p>17</p> <p>1750</p>				<p style="color: blue;">COMMENCED ONE MAN LOGGING OPERATIONS ON 8/27/23. SET 300' OF 8 5/8" SURFACE PIPE @ ON 8/25/23. DRILLING AHEAD W/ BIT #2.</p> <p style="color: blue;">Start Kelly Down Wet Samples</p> <p>SH: gry, pyr, sft.</p> <p>SH: gry, chlk.</p>		<p>Mud Up</p>



SH: gry, carb incl.

LS: bm to cm, fn xln, dns, hrd, no vis por, NS.

SH: gry to lt gry, slty IP, carb incl.

SS: mstly gry, fn gm, wll srted, wll cmntd, sli calc mtrx, mica, carb incl, pyr, gd ig por, NS.

SH: gry, vry sndy, slty, mica, carb incl.

SS: mstly gry, fn gm, wll srted, wll cmntd, sli calc mtrx, mica, carb incl, pyr, gd ig por, NS.

SS: gry to sm lt gry, fn to scat med gm, sub ang, mod srted, carb incl, mica, fr to gd ig por, NS.

SH: gry, slty, carb incl.

SH: gry to lt gry, sndy, carb incl, mica.

latan  
1845' (-546)

Stalanker  
1886' (-587)

Lansing  
2040' (-741)

Lansing  
2040' (-741)

2050

2100

2150

2200

LS: lt bm to crm, fn xln, dns, hrd, foss, pr vis por, NS.

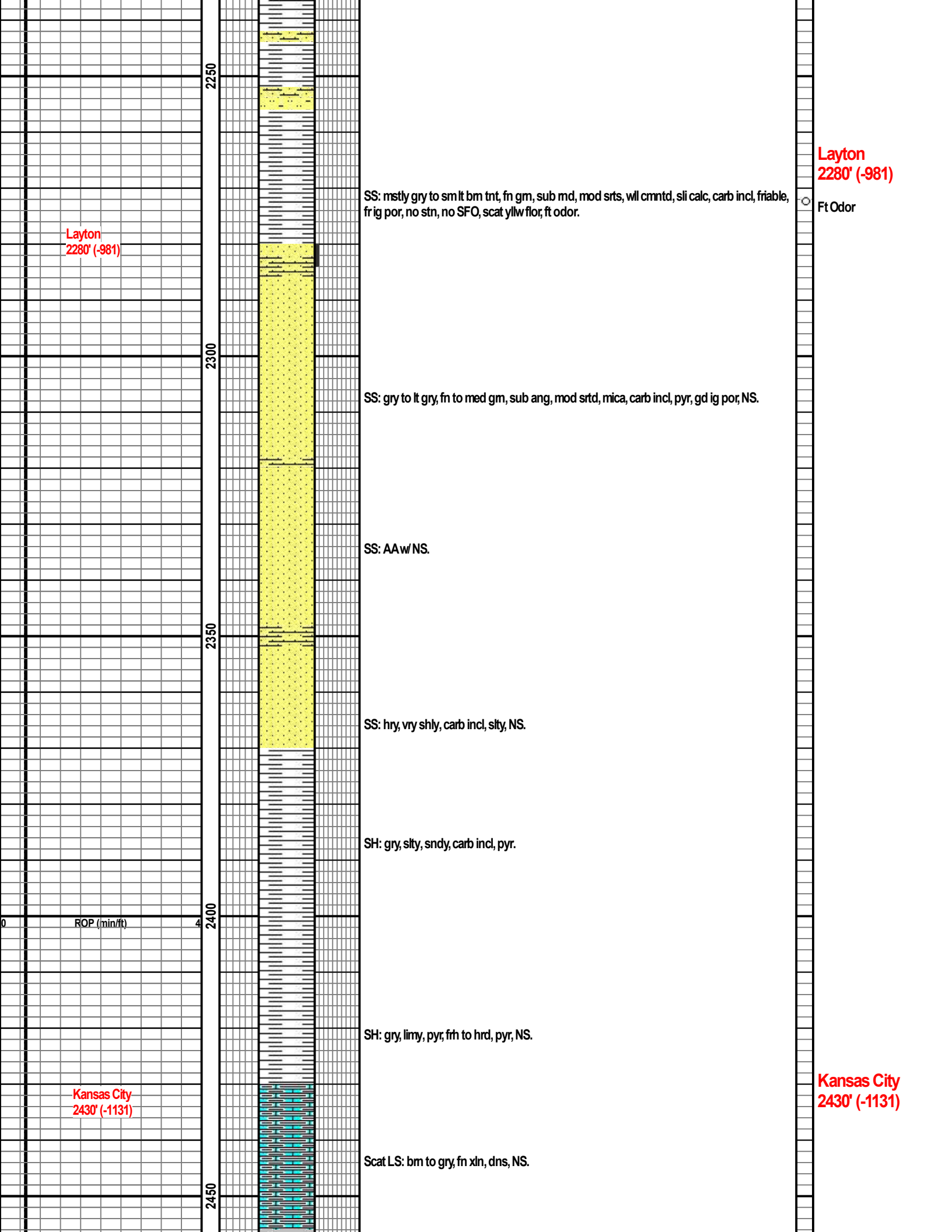
LS: lt bm to bm to gry mott, fn xln, dns, foss cast, pyr, pr vis por, NS.

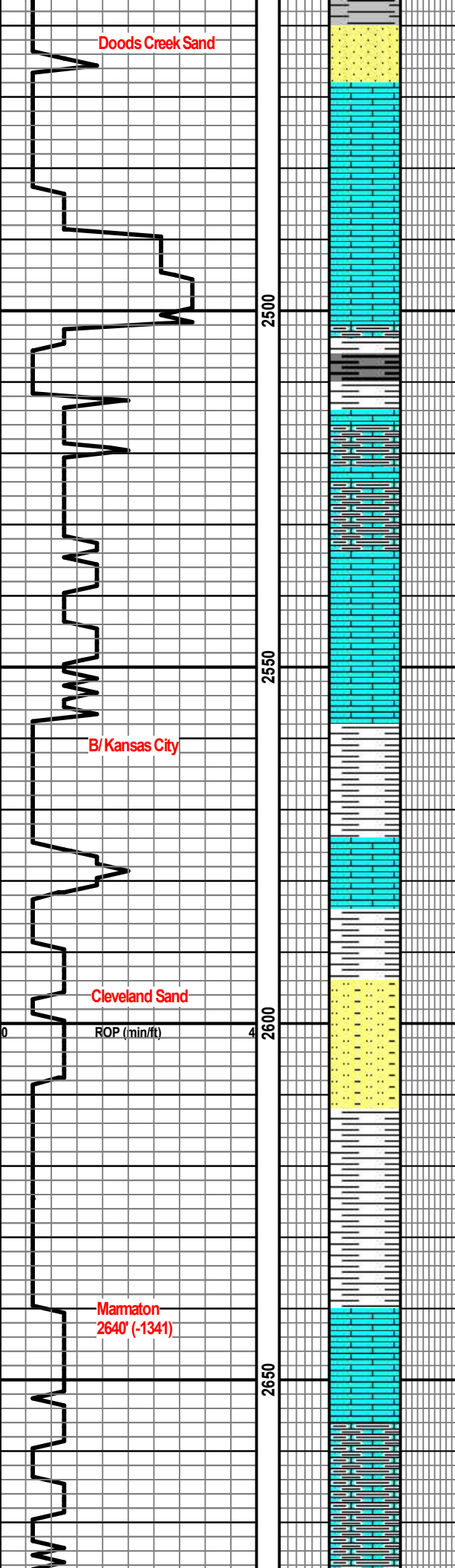
SH: gry to sm drk gry, fm.

SH: gry, slty, sft.

SH: gry, carb incl, slty.

SH: gry, chlky, sft, LS stmg, gry, fn xln, dns.





Doods Creek Sand

B/Kansas City

Cleveland Sand

Marmaton  
2640' (-1341)

ROP (min/ft)

2500

2550

2600

2650

SH: gry to sm drk gry, fm, chnky.

SS: vry fn gm to slty, mica, carb incl, pr ig por, NS.

Sample vry shly.

Sample vry shly. Very Little LS.

Mud Pump over heated. Let Cool down and Jet Pits. Lost Circ, Mix Halls, Got it back. Hung in the hole @ 3:00pm on 8/27/23. Spotted oil. Still stuck. Backed off and TOOH with drill string. Open Hole log from 2200' to surface. Washed over stuck drill string. Went down and screwed into it. TOOH with whole DS. Put Bit #3 on. TIH. Circ for 1 hr. Drilling ahead @ 8:00pm on 8/31/23.

Sample was mostly all SH. Very little LS.

LS: gry to cm, sm bm, fn xln, dns, xln incl, pyr, sil rch, mstly pr interxn por, NS.

SH: gry to sm drk gry to blk, chnky, pyr, fm.

LS: cm to ft bm, fn xln, dns, vry foss, xln incl, pr vis por, NS.

SLTST: mstly lt gry to sm gry, vry fn gm, carb incl, pyr, mica, clays, shly, pr ig por, NS.

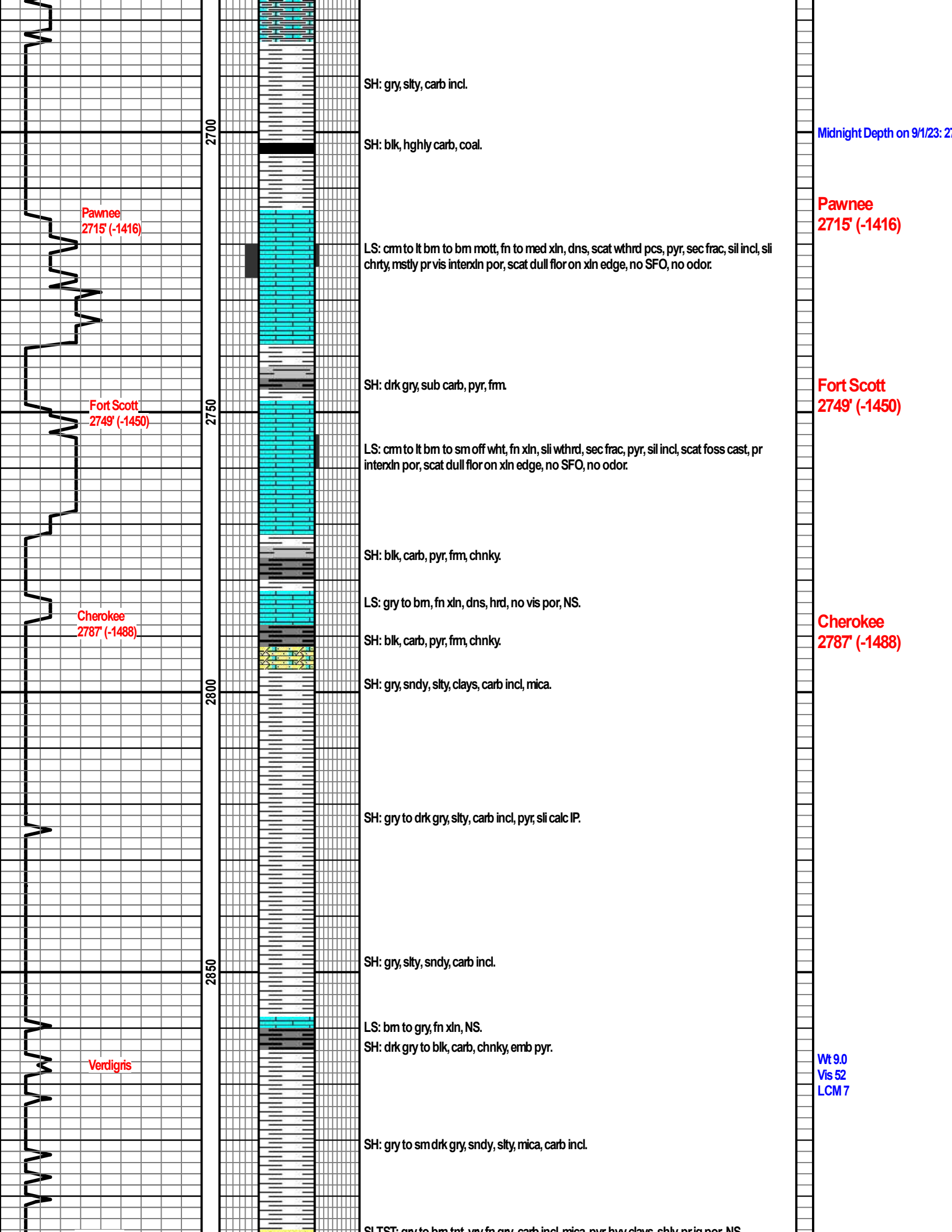
SH: gry, slty, carb incl.

SH: blk, sub carb, pyr.

LS: mstly all gry, fn xln, dns, trc pcs wthrd w sndy txt, mstly pr vis por, NS.

LS: gry, fn xln, dns, shly, pyr, pr vis por, NS.

Marmaton  
2640' (-1341)



Midnight Depth on 9/1/23: 2

Pawnee  
2715' (-1416)

Fort Scott  
2749' (-1450)

Cherokee  
2787' (-1488)

Wt 9.0  
Vis 52  
LCM 7

Cattlemen

SH: St. gry to blk int, vry m gry, carb incl, mica, pyr, mvy clays, shly, prig por, NS.

CFS @ 2920'  
15-30 min

2900  
2950  
3000  
3050  
3100

SH: gry, carb incl, phos nodules, pyr.

SH: gry, sndy, slty, carb incl.

ROP (min/ft)

SH: gry, chnky, sft.

SH: drk gry, sndy, slty, clays, carb incl, glac, calc, pyr.

Start 10' Samples

Mississippi  
3043' (-1744)

CHT: cm to lt bm, oqp, sli wthrd but mstly frsh, sec frac, pr vis por, NS.

Mississippi  
3043' (-1744)

LS: mstly off wht to cm, med xln, dns, chlky, wthrd, rexln, sil incl, chrty, pyr; scat foss, sm fr interxln por, few pcs flor on xln edge, no SFO, no odor.

LS: lt bm to gry mott, gry to cm, fn to med xln, dns, hrd, vry chrty, earthy, sil incl, sec frac, lam carb strks, sli sndy txt, pr, scat fr interxln por, few pcs brght flor on xln edge, no SFO, no odor.

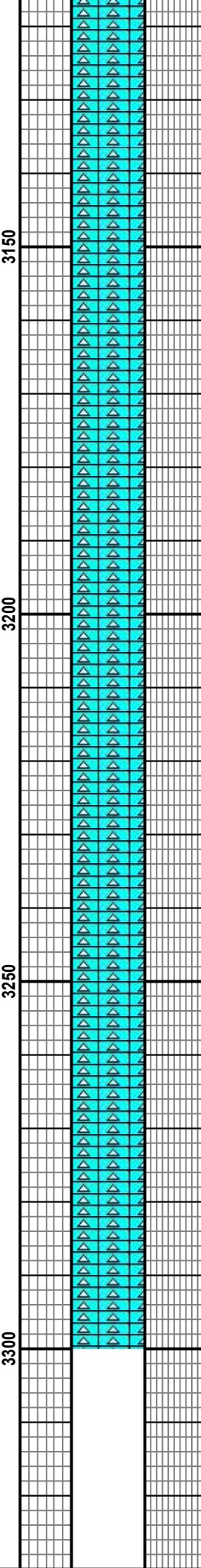
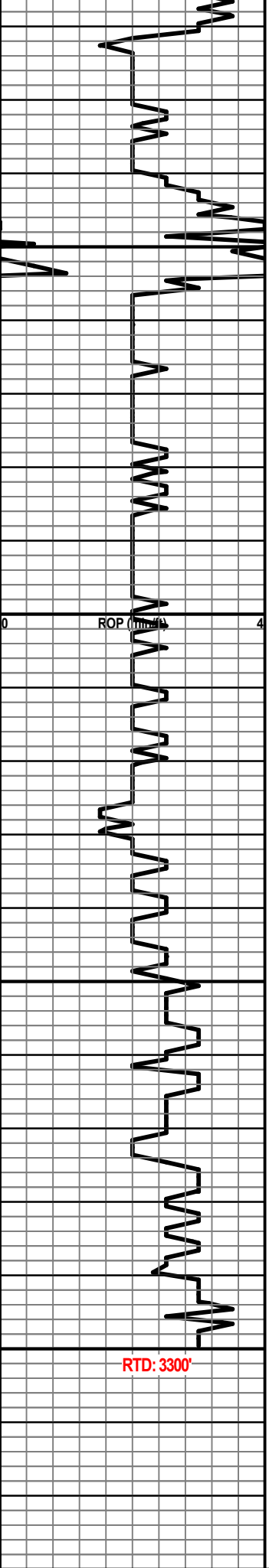
LS: AA w/ scat flor, no SFO, no odor.

LS: cm to off wht to lt gry to lt bm mott, fn to med xln, dns, earthy, chrty, sil rch, frac, sli dolo sndy txt, chlky IP, pyr; mstly pr interxln por, NS.

CFS @ 3090'  
20-40 min

Wt 9.2  
Vis 44  
LCM 4

LS: lt bm to cm to cm off wht mott, fn to med xln, dns, wthrd, mvy, sli chlky, but less sli dolo



LS: lt bm to crm to sm on wht molt, fn xln, dns, wtrd, re xln, sil chky, brn pcs, sil dolo  
 edge, no SFO, no odor.

LS: bm to sm drk bm, fn xln, dns, hrd, sli sndy txt, chrty, sil incl, mstly pr vis por, NS.

3150

LS: AAw NS.

LS: gry to bm, fn to vry fn xln, dns, hrd, scat sli sndy txt, mstly pr vis por, NS.

LS: mstly drk bm, vry fn xln, dns, hrd, sil incl, chrty, frac, pyr, pr vis por, NS.

3200

ROP (ft) 4

LS: bm to gry, vry fn to fn xln, dns, sli incl, lam gry frsh chrt, pyr, pr to no vis por, NS.

LS: AAw NS.

3250

LS: bm to sm gry, vry fn xln, dns, hrd, scat chrty incl, pyr, pr vis por, NS.

LS: AAw NS.

3300

LS: drk bm, vry fn xln, dns, hrd, sli dolo, chrty, xln incl, no vis por, NS.

**RTD: 3300' @ 5:00PM on 9/1/23**  
 Circ 45 min. Short Trip to 1700'. Circ 1 hr TOOH for logs.  
**LTD: 3297' @ 11:00PM on 9/1/23**

Wt 9.1  
 Vis 48  
 LCM 4