

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 Recompletion Date \_\_\_\_\_ 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: 12/10/2023  
Invoice #: 0373134  
Lease Name: House Ranch  
Well #: 3-30 (New)  
County: Cowley, Ks  
Job Number: EP11681  
District: Eureka

Date/Description	HRS/QTY	Rate	Total
Longstring	0.000	0.000	0.00
Depth Charge 3001'-4000'	1.000	2,250.000	2,250.00
Heavy Equipment Mileage	80.000	4.000	320.00
Light Eq Mileage	80.000	2.000	160.00
Cement Pozmix 60/40	135.000	16.000	2,160.00
Bentonite Gel	695.000	0.450	312.75
Pheno Seal	270.000	1.750	472.50
H842 Thickset	100.000	27.500	2,750.00
KOL Seal	500.000	0.750	375.00
Pheno Seal	200.000	1.750	350.00
Ton Mileage	971.000	1.500	1,456.50
5 1/2" Floatshoe-Flapper AFU	1.000	375.000	375.00
5 1/2" LD Plug & Baffle	1.000	350.000	350.00
Cement baskets 5 1/2"	1.000	300.000	300.00
Centralizers 5 1/2"	5.000	60.000	300.00
KCL-CS701	2.000	30.000	60.00
Service Supervisor	1.000	275.000	275.00

**Total** 12,266.75

**TERMS:** Net 30 days. Interest may be charged on past due invoice at rate of 1 1/2% 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!**



Customer	Val Energy, Inc	Lease & Well #	House Ranch #3-30	Date	12/10/2023
Service District	Eureka	County & State	Cowley, Ks	Legals S/T/R	30 33S 6E
Job Type	Longstring	<input checked="" type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> SWD	New Well?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> No	Job #
					Ticket #
					EP11681

Equipment #	Driver	Job Safety Analysis - A Discussion of Hazards & Safety Procedures			
1004	Kevin M	<input checked="" type="checkbox"/> Hard hat	<input checked="" type="checkbox"/> Gloves	<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Warning Signs & Flagging
1201	Alan M	<input checked="" type="checkbox"/> H2S Monitor	<input checked="" type="checkbox"/> Eye Protection	<input type="checkbox"/> Required Permits	<input type="checkbox"/> Fall Protection
1212	Dan B	<input checked="" type="checkbox"/> Safety Footwear	<input type="checkbox"/> Respiratory Protection	<input checked="" type="checkbox"/> Slip/Trip/Fall Hazards	<input checked="" type="checkbox"/> Specific Job Sequence/Expectations
1213	Steve M	<input checked="" type="checkbox"/> FRC/Protective Clothing	<input type="checkbox"/> Additional Chemical/Acid PPE	<input checked="" type="checkbox"/> Overhead Hazards	<input checked="" 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	

**Comments**  
 Longstring TD = 3350' KB, 5 1/2" used 14# casing set @ 3320' GL. Centralizers ran on #3,5,7,9,11. Cement Basket ran on top of #1. Lead cement 100sx 60/40 Poxmix w/ 6% gel, 2# pheno seal/sx, Tail cement 100sx Thick Set Cement w/ 5# kol seal/sx, 23 pheno seal/sx. 20sx RH, 15sx MH

Product/ Service Code	Description	Unit of Measure	Quantity	Net Amount
D014	Depth Charge: 300'-4000'	job	1.00	\$2,250.00
M010	Heavy Equipment Mileage	mi	80.00	\$320.00
M015	Light Equipment Mileage	mi	80.00	\$160.00
CP070	60/40 Pozmix Cement A ( lead cement = 100sx )	sack	135.00	\$2,160.00
CP095	Bentonite Gel 6%	lb	695.00	\$312.75
CP125	Pheno Seal 2#/sx	lb	270.00	\$472.50
GP062	H842 Thick Set Cement ( tail cement )	sack	100.00	\$2,750.00
CP110	Kol Seal 5#/sx	lb	500.00	\$375.00
CP125	Pheno Seal 2#/sx	lb	200.00	\$350.00
M020	Ton Mileage	tm	971.00	\$1,456.50
FE145	5 1/2" AFU Float Shoe w/ Latch down Insert	ea	1.00	\$375.00
FE170	5 1/2" Latch Down Plug & Baffle	ea	1.00	\$350.00
FE130	5 1/2" Cement Basket	ea	1.00	\$300.00
FE125	5 1/2" Centralizer	ea	5.00	\$300.00
AF065	KCL ( in frist 40bbl of displacement water )	gal	2.00	\$60.00
R061	Service Supervisor	day	1.00	\$275.00

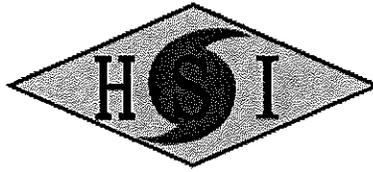
Customer Section: On the following scale how would you rate Hurricane Services Inc.?		Net:	\$12,266.75
Based on this job, how likely is it you would recommend HSI to a colleague?		Total Taxable	\$ -
<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 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		Tax Rate:	
##### Well # 1 2 3 4 5 6 7 8 9 10 H (Depth) (ft)		Sale Tax:	\$ -
		Total:	\$ 12,266.75

HSI Representative: *Thank You 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 1/4% 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: 12/7/2023  
Invoice #: 0373137  
Lease Name: House Ranch  
Well #: 3-30 (New)  
County: Cowley, Ks  
Job Number: EP11653  
District: Eureka

Date/Description	HRS/QTY	Rate	Total
Surface	0.000	0.000	0.00
Depth Charge 0'-500'	1.000	1,000.000	1,000.00
Heavy Equipment Mileage	80.000	4.000	320.00
Light Eq Mileage	80.000	2.000	160.00
Ton Mileage	791.600	1.500	1,187.40
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
Hulls	0.800	50.000	40.00

**Total** 7,387.40

**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!**



Customer	Val Energy Inc	Lease & Well #	House Ranch #3-30	Date	12/7/2023
Service District	Eureka	County & State	Cowley, Ks	Legals S/T/R	30 33S 6E
Job Type	Surface	<input checked="" type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> SWD	New Well?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> No	Job #
Equipment #	Driver	Ticket #			

Job Safety Analysis - A Discussion of Hazards & Safety Procedures					
<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 checked="" type="checkbox"/> Slip/Trip/Fall Hazards	<input checked="" 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 checked="" 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			

**Comments**  
 API# 15-035-24793. Rig lost approximately 80-100 bbl fluid while drilling R.H. & M.H. & 1st Kelly down. No more fluid loss after that. Ran 40# Cottonseed Hulls in w/ 1st 50 sks cement for loss circulation material.

Product/ Service Code	Description	Unit of Measure	Quantity	Net Amount
D010	Depth Charge: 0'-500'	job	1.00	\$1,000.00
M010	Heavy Equipment Mileage	mi	80.00	\$320.00
M015	Light Equipment Mileage	mi	80.00	\$160.00
M020	Ton Mileage	tm	791.60	\$1,187.40
CP010	Class A Cement	sack	200.00	\$4,000.00
CP100	Calcium Chloride	lb	565.00	\$423.75
CP095	Bentonite Gel	lb	375.00	\$168.75
CP120	Cello-flake	lb	50.00	\$87.50
CP165	Cottonseed Hulls	lb	40.00	\$40.00

Customer Section: On the following scale how would you rate Hurricane Services Inc.?				Net:	\$7,387.40	
Based on this job, how likely is it you would recommend HSI to a colleague?				Total Taxable	\$ -	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Tax Rate:		
<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.	Sale Tax:	\$ -
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		Total:	\$ 7,387.40
HSI Representative: <i>David Gardner</i>						

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Judd Gulick - C&G Drlg. Tool Pusher

**CUSTOMER AUTHORIZATION SIGNATURE**





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

Well Name: House Ranch 3-30  
API: 15-035-24793  
Location: SW NE NE NW S30 T33S R6E  
License Number: 5822  
Spud Date: 12/6/23  
Surface Coordinates: 590' FNL 3045' FEL  
Region: Cowley County, KS  
Drilling Completed: 12/9/23

Bottom Hole  
Coordinates:  
Ground Elevation (ft): 1299'      K.B. Elevation (ft): 1308'  
Logged Interval (ft): 1700'      To: 3350'      Total Depth (ft): 3350'  
Formation: Mississippi  
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 3  
Drilling FLuids: Mud Co  
Open Hole Logs: Osage Wireline  
Cement: HSI Cementing

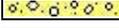
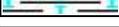
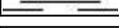
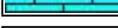
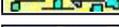
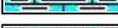
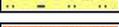
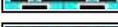
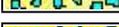
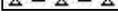
#### COMMENTS

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

<b>Well</b>	House Ranch 3-30
<b>G.L.</b>	1299'
<b>K.B.</b>	1308'

<b>Formation</b>	<b>Sample</b>		<b>Log</b>	
<b>Iatan</b>	1827	-519	1822	-514
<b>Kansas City</b>	2480	-1172	2479	-1171
<b>Marmaton</b>	2687	-1379	2683	-1375
<b>Altamont</b>	2712	-1404	2708	-1400
<b>Pawnee</b>	2749	-1441	2745	-1437
<b>Fort Scott</b>	2788	-1480	2783	-1475
<b>Cherokee</b>	2821	-1513	2816	-1508
<b>Mississippi Lime</b>	3088	-1780	3081	-1773
<b>Total Depth</b>	3350	-2042	3347	-2039

#### ROCK TYPES

	Anhydrite		Shaly_ss_ii		Cherty_dolo		Qtz_wash
	Arkose		Sandstone		Dolomite		Qtz_wash_ii
	Ark_shale		Shaly_limy_ss		Limy_dolo		Argil_qtz_wash
	Granite		Washy_limy_ss		Conglomerate		Ark_qtz_wash
	Coal		Limy_ss		Carb_wash		Sdy_gw
	Limy_sh		Sdy_ls		Sdy_carb_wash		Shaly_gw
	Shale		Limestone		Shaly_sdy_carb		Gw_a
	Hot_shale		Dolo_ls		Shaly_limy_qtz_w		Gw_b
	Hot_shale_ii		Shaly_ls		Shaly_limy_qtz_w		Gw_c
	Siltstone		Carb_shaly_ls		Limy_qtz_wash		Gw_d
	Siltstone_ii		Cherty_ls		Limy_qtz_wash_ii		
	Shaly_ss		Chert		Limy_qtz_wash_iii		

### 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
- Breclrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr

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

#### 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

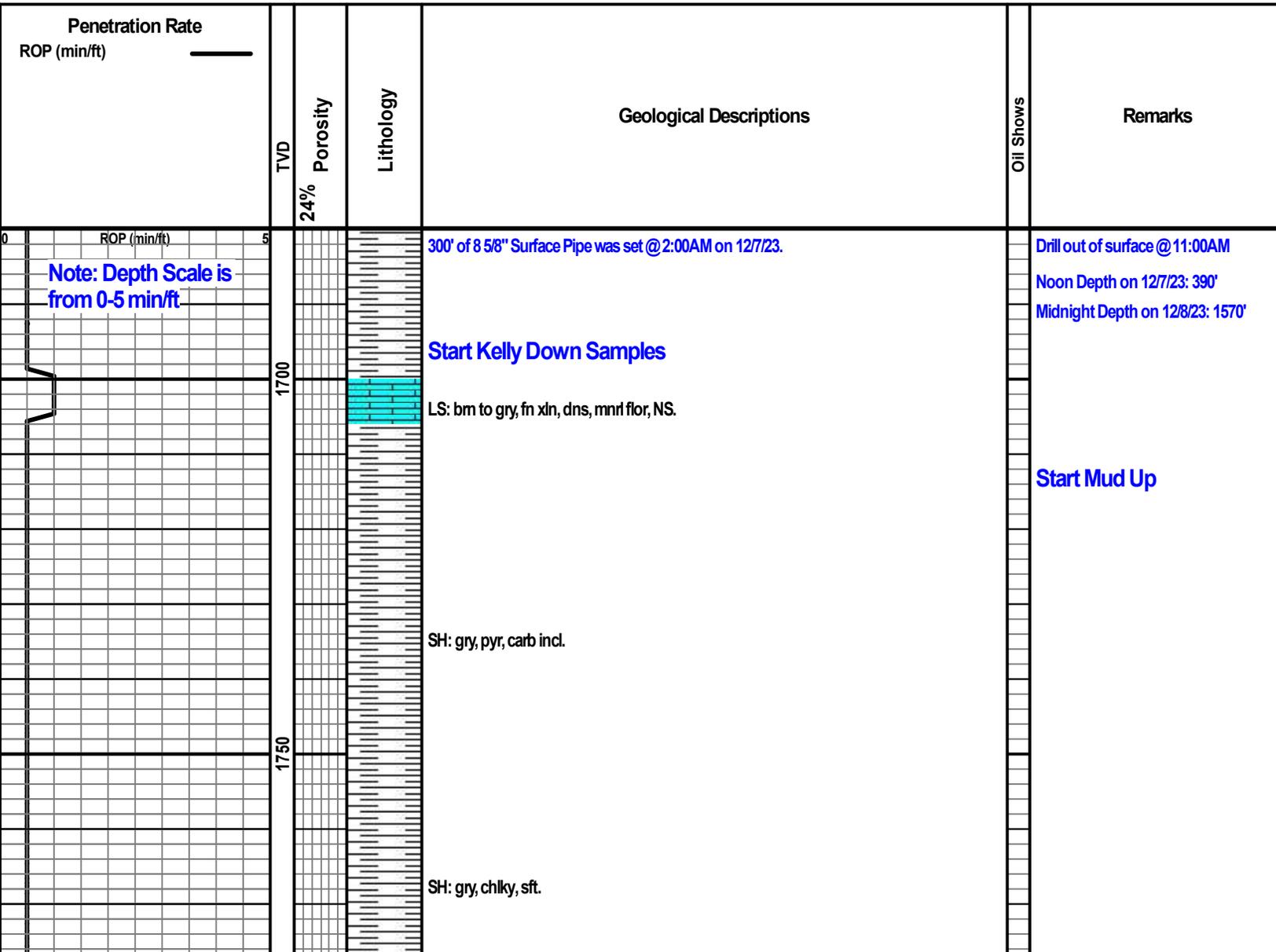
- Sandy ls str
- Shale
- Siltstone
- Sandstone

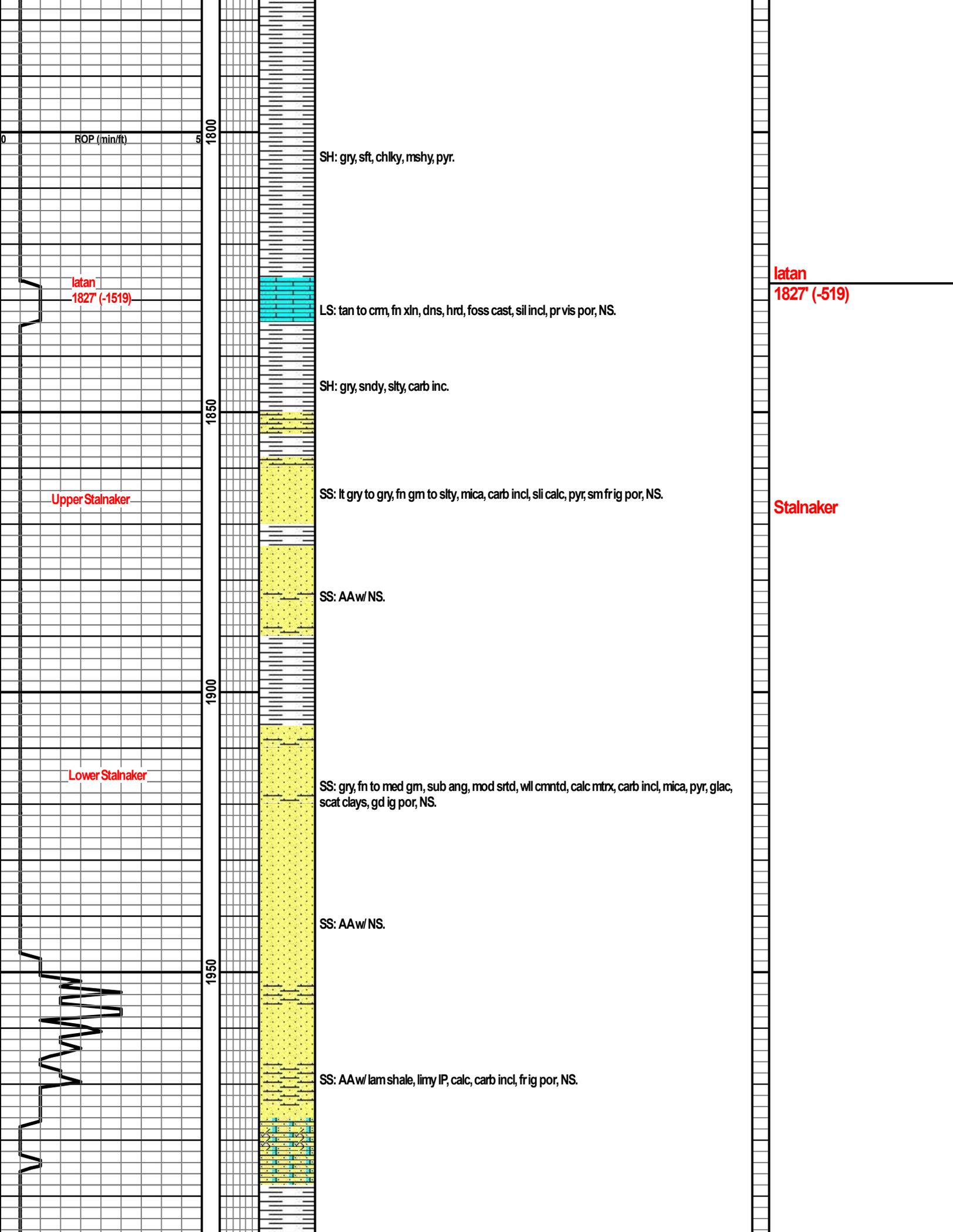
#### TEXTURE

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

#### OIL SHOW

- Even
- Spotted
- Ques
- Gas show
- Dead





ROP (min/ft)

1800

SH: gry, sft, chlky, mshy, pyr.

latan  
1827' (-519)

LS: tan to cm, fn xln, dns, hrd, foss cast, sil incl, pr vis por, NS.

latan  
1827' (-519)

1850

SH: gry, sndy, slty, carb inc.

Upper Stalnaker

SS: lt gry to gry, fn gm to slty, mica, carb incl, sli calc, pyr, sm fr ig por, NS.

Stalnaker

1900

SS: AAw/NS.

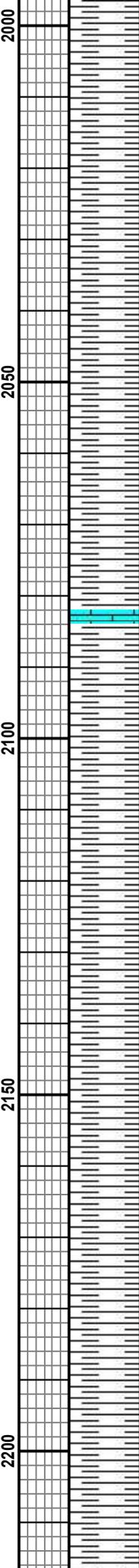
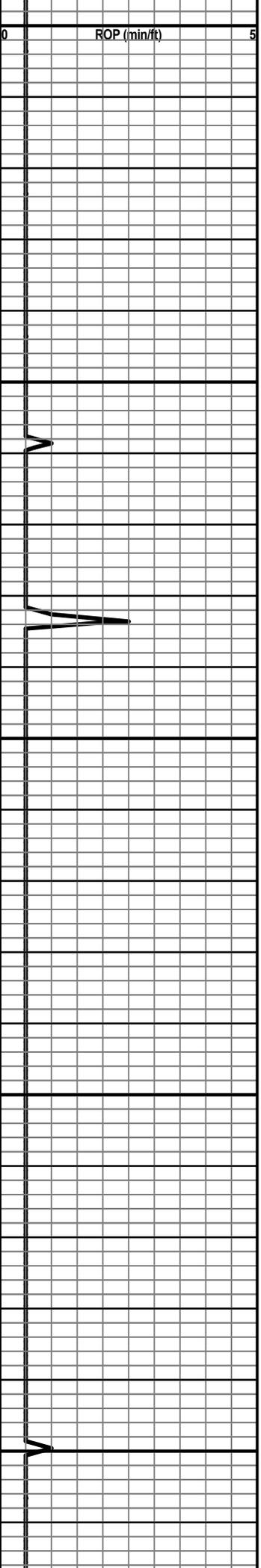
Lower Stalnaker

SS: gry, fn to med gm, sub ang, mod srted, wll cmntd, calc mtrx, carb incl, mica, pyr, glac, scat clays, gd ig por, NS.

1950

SS: AAw/NS.

SS: AAw/ lam shale, limy IP, calc, carb incl, fr ig por, NS.



SH: gry, slty, sndy, carb incl.

SH: gry, carb incl, slty, mica.

SH: gry, chnky, pyr, frm.

LS: bm to gry, fn xln, dns, NS.

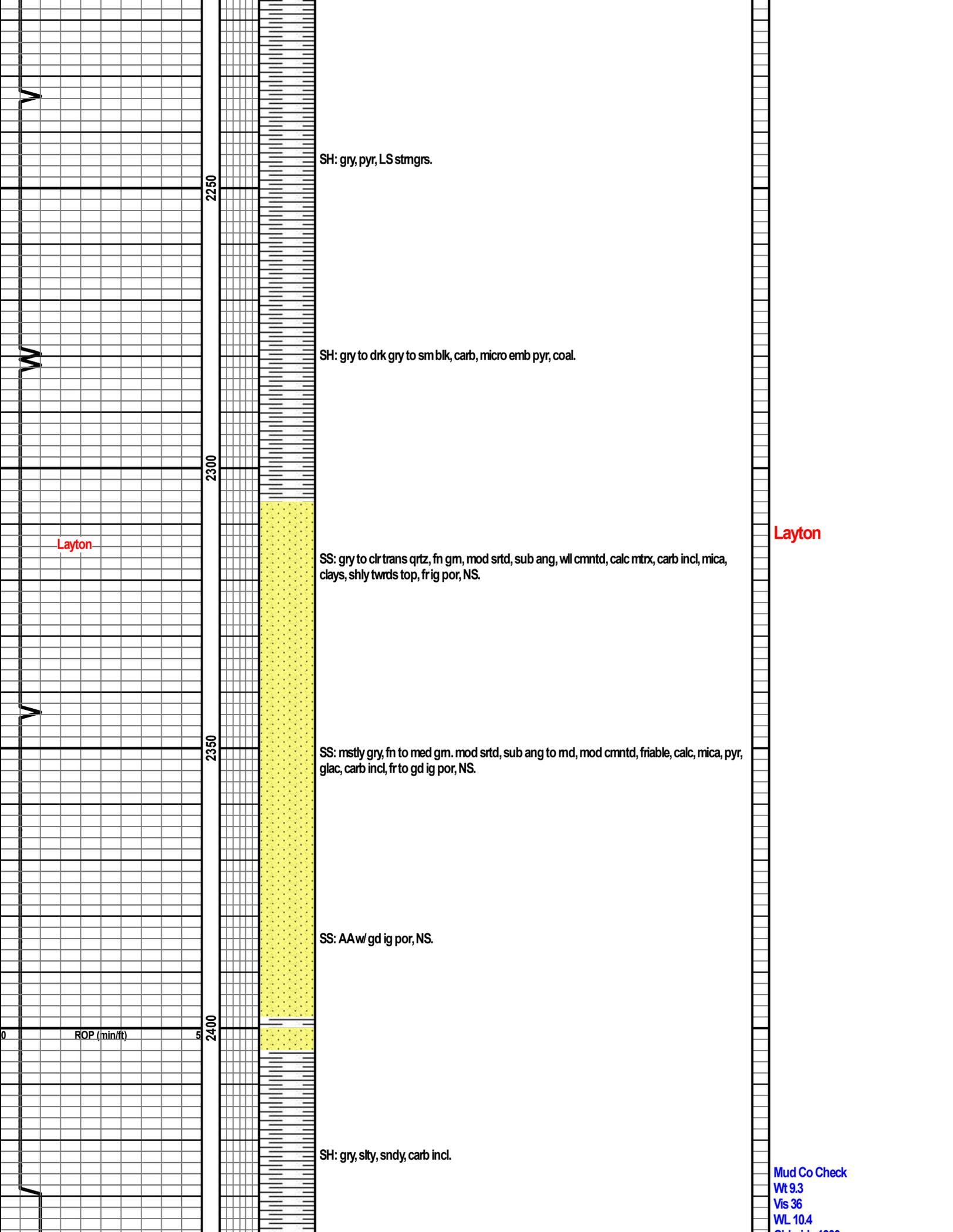
SH: gry, pyr.

SH: gry, slty, mica.

SH: gry, carb incl, pyr.

SH: gry, slty, smsndy, carb incl.

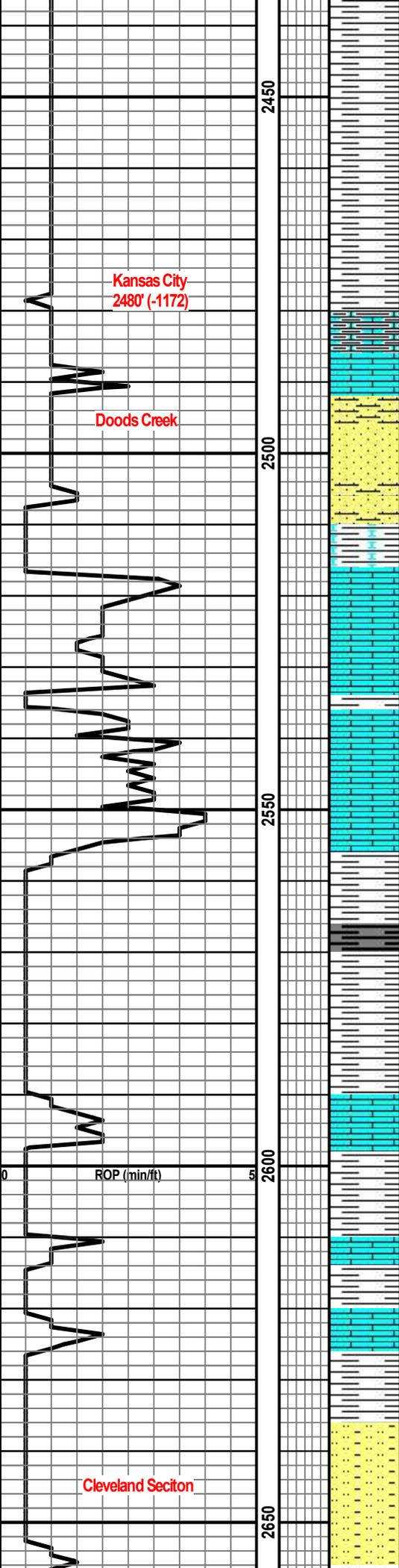
Wt 9.3  
Vis 36



Layton

Layton

Mud Co Check  
Wt 9.3  
Vis 36  
WL 10.4  
SP 11.4



SH: gry, chlky, sft, pyr, scat carb incl.

Kansas City  
2480' (-1172)

Kansas City  
2480' (-1172)

LS: bm to lt bm mott, fn xln, dns, shly IP, sil incl, pyr, dull mnrl flor, NS.

Doods Creek

SS: gry to lt gry, fn gm, sub md, wll cmrd, mod srted, calc mtrx, carb incl, shly IP, clays, sli mica, pyr, glac, fr ig por, vry lt stn on few pcs, few pcs yllw flor, no SFO, no odor.

LS: lt bm to cm, fn xln, dns, scat foss, pr vis por, NS.

LS: gry to lt bm, fn xln, dns, pr vis por, NS.

SH: drk gry to blk, carb, micro emb pyr, sh odor.

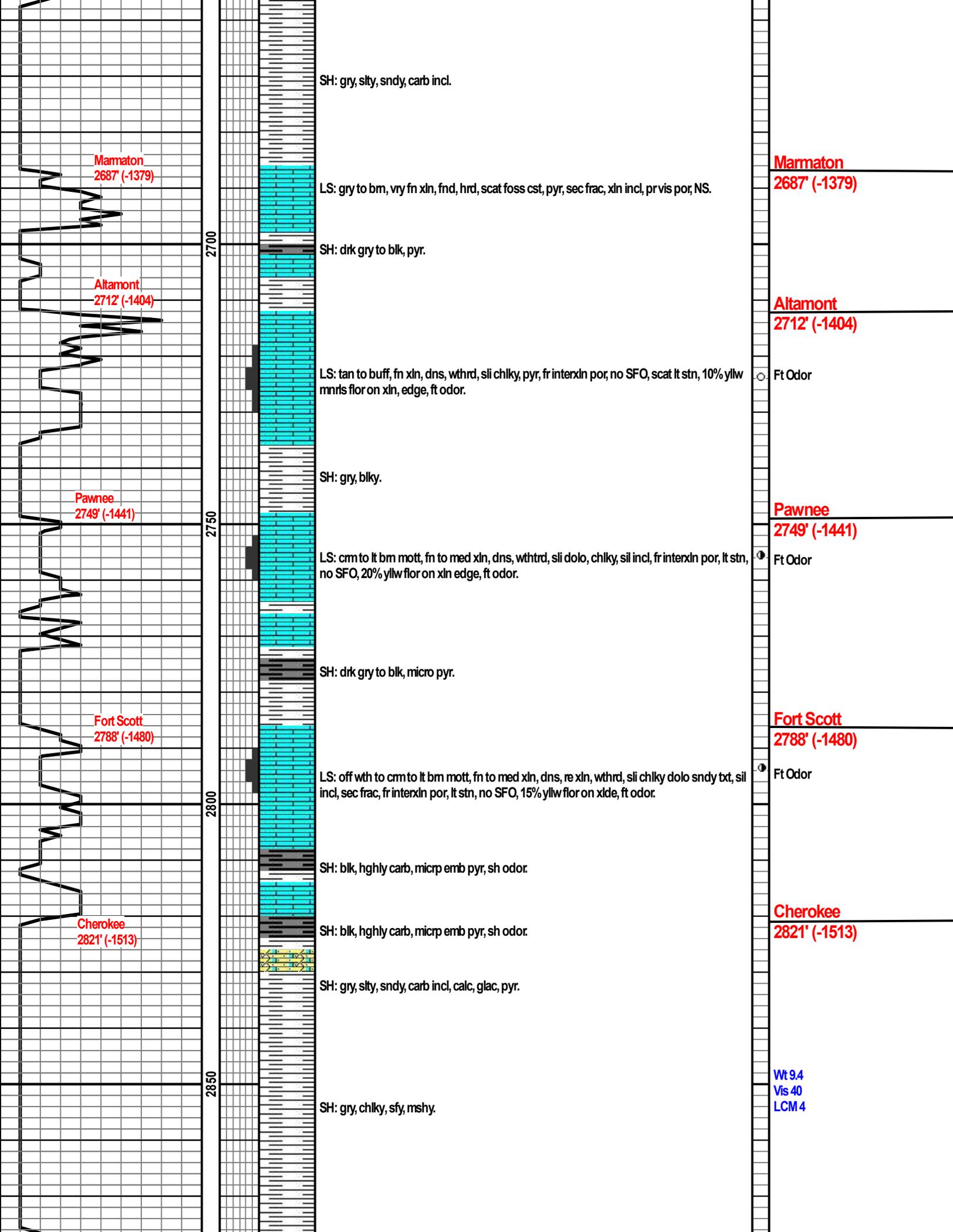
LS: gry to lt bm, fn xln, dbs, sil incl, pyr, trc foss, pr vis por, NS.

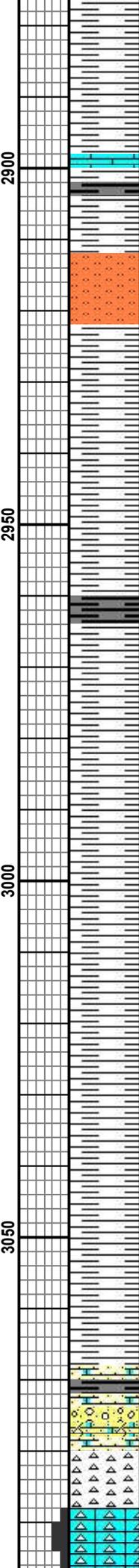
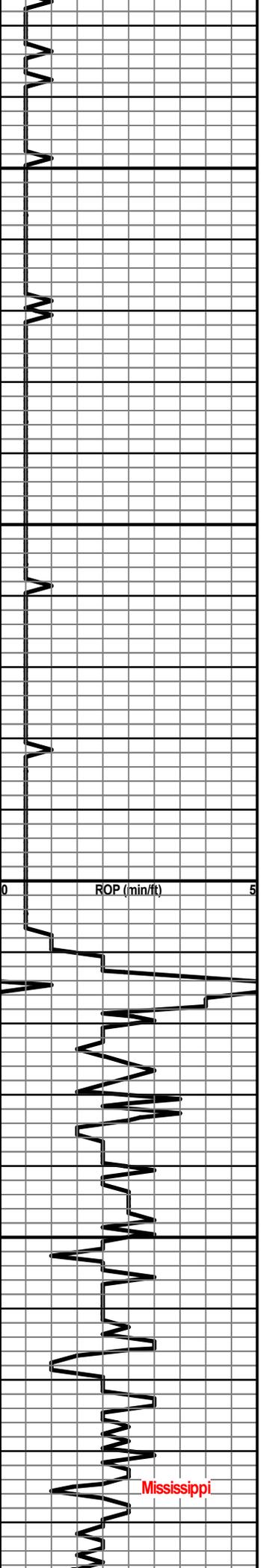
ROP (min/ft)

LS: AAw/NS.

Cleveland Section

SLTST: lt gry, vry fn gm, slty, shly, carb incl, mica, pyr, glac, hvy clays, pr ig por, NS.





SH: gry to drk gry, sm blk, carb, pyr, coal seem.

LS: bm to gry, fn to med xln, dns, hrd, NS.

SH: blk, carb, micro pyr, fiss.

SLTST: lt gry to gry, slit, vry fn gm snd, mica, carb incl, glac, pr ig por, NS.

SH: gry, sndy, slty.

SH: blk, high carb, brttl, pyr.

SH: gry, phos nodules, pyr, LS stmgrs.

SH: gry, slty, sndy, carb incl, pyr.

SH: gry to sm drk gry, chlky, pyr, phos nodules, glac.

SH: gry to drk gry, chlky, sft, phos nodules, slty, pyr.

SS: gry, fn gm, md, vry shly, ight, dirty, vry glac, clays, pyr, carb incl, pr ig por, NS.

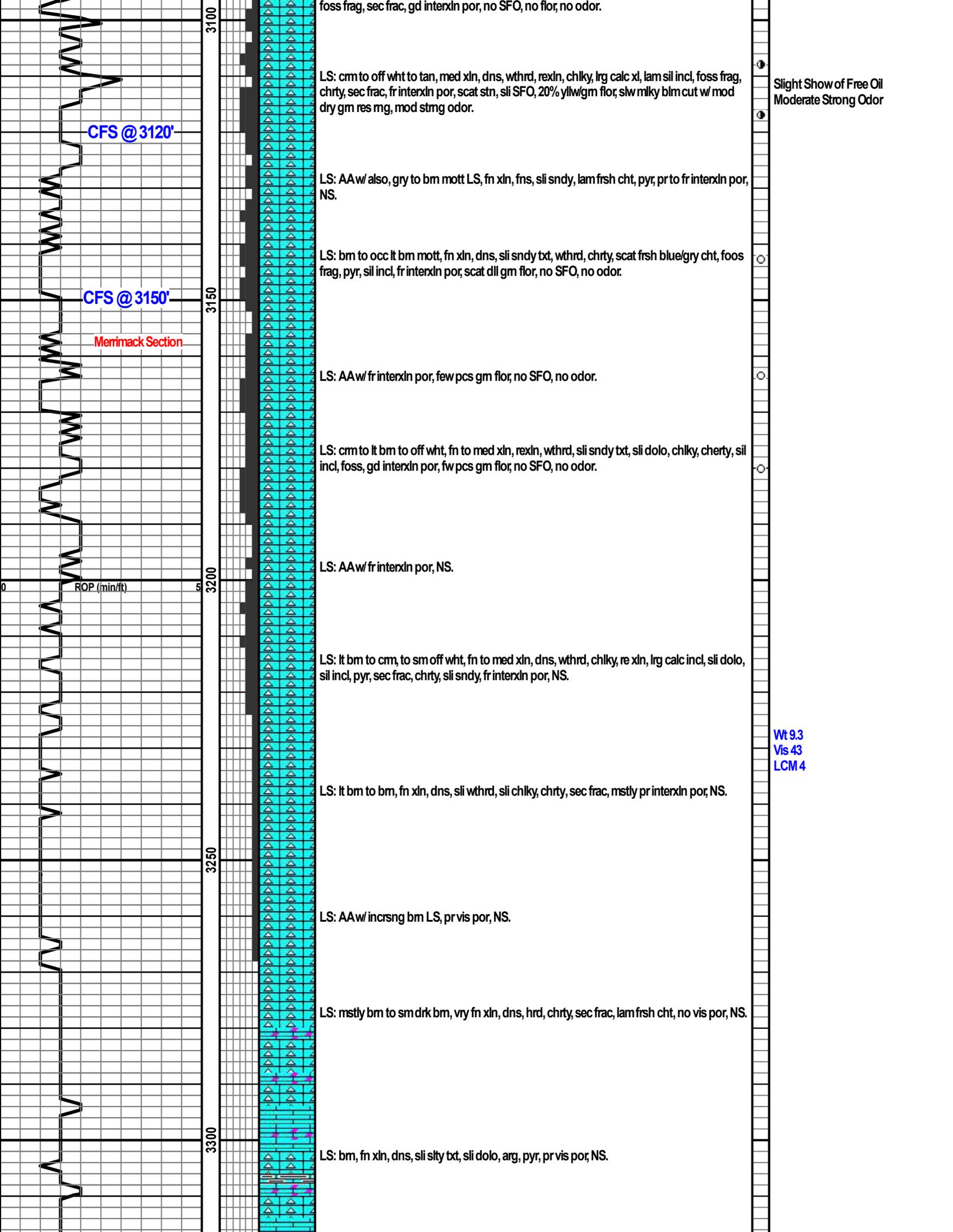
CHT: mstly off wht, rewkd, wthrd, chlky, calc incl, scat frsh cht, fr vis wthrd por, no stn, no SFO, no odor.

LS: off wht to cm, med xln, hgy wthrd, re xln, chlky, lrg calc xl, sil incl, chrty, lam wthrd cht,

Wt 9.3  
Vis 42  
LCM 3

Mississippi

Mississippi Lime  
3088' (-1780)



foss frag, sec frac, gd interxn por, no SFO, no flor, no odor.

LS: cm to off wht to tan, med xln, dns, wthrd, rexln, chlky, lrg calc xl, lam sil incl, foss frag, chrt, sec frac, fr interxn por, scat str, sli SFO, 20% yllw/gm flor, slw mlky blm cut w mod dry gm res mg, mod strng odor.

Slight Show of Free Oil  
Moderate Strong Odor

CFS @ 3120'

LS: AAw also, gry to bm mott LS, fn xln, fns, sli sndy, lam frsh cht, pyr, pr to fr interxn por, NS.

LS: bm to occ lt bm mott, fn xln, dns, sli sndy txt, wthrd, chrt, scat frsh blue/gry cht, foos frag, pyr, sil incl, fr interxn por, scat dll gm flor, no SFO, no odor.

CFS @ 3150'

Merrimack Section

LS: AAw fr interxn por, few pcs gm flor, no SFO, no odor.

LS: cm to lt bm to off wht, fn to med xln, rexln, wthrd, sli sndy txt, sli dolo, chlky, cherty, sil incl, foss, gd interxn por, fw pcs gm flor, no SFO, no odor.

LS: AAw fr interxn por, NS.

ROP (min/ft)

LS: lt bm to cm, to sm off wht, fn to med xln, dns, wthrd, chlky, re xln, lrg calc incl, sli dolo, sil incl, pyr, sec frac, chrt, sli sndy, fr interxn por, NS.

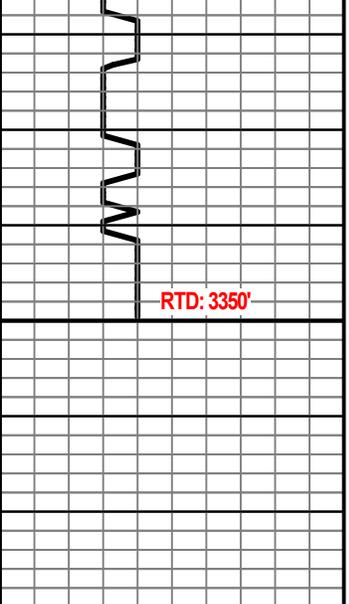
Wt 9.3  
Vis 43  
LCM 4

LS: lt bm to bm, fn xln, dns, sli wthrd, sli chlky, chrt, sec frac, mstly pr interxn por, NS.

LS: AAw/incrsng bm LS, pr vis por, NS.

LS: mstly bm to sm drk bm, vry fn xln, dns, hrd, chrt, sec frac, lam frsh cht, no vis por, NS.

LS: bm, fn xln, dns, sli slty txt, sli dolo, arg, pyr, pr vis por, NS.



RTD: 3350'

3350



LS: AAw/NS.

LS: gry to sm drk gry, fn xln, dns, hrd, lots of SH in smpl, scat pcs frsh cht, arg, pr vis por, NS.

RTD: 3350' @ 11:30AM on 12/9/23

Circ 1 hr. Short trip to 1000'. Circ 1.5 hr. TOOH for logs.

RTD

3350' (-2042)