

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)</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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Production
TREATMENT REPORT

Acid Stage No. _____

Date 10/21/2023 District GB F.O. No. 80158

Company Howell Oil

Well Name & No. Saben #5

Location _____ Field _____

County Reno Co State KS

Type Treatment:	Amt.	Type Fluid	Sand Size	Pounds of S
Bkdown	_____ Bbl./Gal.	_____	_____	_____
	_____ Bbl./Gal.	_____	_____	_____
	_____ Bbl./Gal.	_____	_____	_____
	_____ Bbl./Gal.	_____	_____	_____
Flush	_____ Bbl./Gal.	_____	_____	_____

Casing: Size 5 1/2 Type & Wt. _____ Set at _____ ft.

Formation: _____ Perf. _____ to _____

Formation: _____ Perf. _____ to _____

Formation: _____ Perf. _____ to _____

Liner: Size _____ Type & Wt. _____ Top at _____ ft. Bottom at _____ ft.

Cemented: Yes Perforated from _____ ft. to _____ ft.

Tubing: Size & Wt. _____ Swung at _____ ft.

Perforated from _____ ft. to _____ ft.

Treated from _____ ft. to _____ ft.	No. ft. _____
from _____ ft. to _____ ft.	No. ft. _____
from _____ ft. to _____ ft.	No. ft. _____

Actual Volume of Oil / Water to Load Hole: _____ Bbl

Pump Trucks. No. Used: Std. 365 Sp. _____ Twin _____

Auxiliary Equipment _____ 327,355

Personnel Joe S. Curtis H. Tim D.

Auxiliary Tools _____

Plugging or Sealing Materials: Type _____ long strin cement
Gals. _____

Open Hole Size _____ T.D. _____ ft. P.B. to _____ ft.

Company Representative _____

Treater _____ Joe S.

TIME	PRESSURES		Total Fluid Pumped	REMARKS
	a.m./p.m.	Tubing		
4:00				On Location.
				Latch Down Baffle at 3448
5:45				Circulate for 45 min
				Pump 600 Gals Mud Flush and 15 gal h20
				Plug rathole with 30 sks and mouse hole with 20 sks cement
				Cement 5.5 Casing with 250 SKS @ 6.5 BPM
				Flush out pump and line
				Displace with 81 BBL of water, Plug landed @ 800 PSI
				Pressure up to 1000 Psi and holding
				Release pressure and holding
7:45				JOB Complete



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

Well Name: Sabin 5
API: 15-1655-21799
Location: SE NE SW S13 T23S R4W
License Number: 5091
Spud Date: 10/13/23
Surface Coordinates: 1650' FSL 2970' FEL
Region: Reno County, KS
Drilling Completed: 10/21/23

Bottom Hole
Coordinates:
Ground Elevation (ft): 1469' K.B. Elevation (ft): 1481'
Logged Interval (ft): 2300' To: 3465' Total Depth (ft): 3465'
Formation: Mississippi
Type of Drilling Fluid: Chemical

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

OPERATOR

Company: Howell Oil Company, LLC
Address: PO Bos 250
Hutchinson, KS 67504

GEOLOGIST

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

CONTRACTORS

Drilling Rig: (Rig 1) Lighthouse Drilling
Drilling FLuids: Mud Co
Open Hole Logs: Midwest
Cementing: Copeland













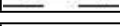


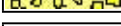

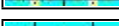
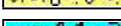

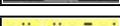

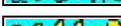


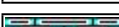
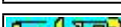










COMMENTS

5.5" production casing was set to further evaluate the Mississippi system

Well	Sabin 5
G.L.	1469'
K.B.	14811481'

Formation	Sample		Log	
Heebner Shale	2330	-849	2328	-847
Lansing	2531	-1050	2528	-1047
B/ Kansas City	2996	-1515	2996	-1515
Marmaton	3028	-1547	3027	-1546
Cherokee	3128	-1647	3128	-1647
Mississippi	3274	-1793	3274	-1793
Total Depth	3465	-1984	3465	-1984

ROCK TYPES

	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		Qtz_wash_ii
	Hot_shale_ii		Limestone		Carb_wash		Argil_qtz_wash
	Siltstone		Dolo_ls		Sdy_carb_wash		Ark_qtz_wash
	Siltstone_ii		Shaly_ls		Shaly_sdy_carb_wash		
	Shaly_ss		Carb_shaly_ls		Shaly_limy_qtz_wash		
	Shaly_ss_ii		Cherty_ls		Shaly_limy_qtz_wash_ii		

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

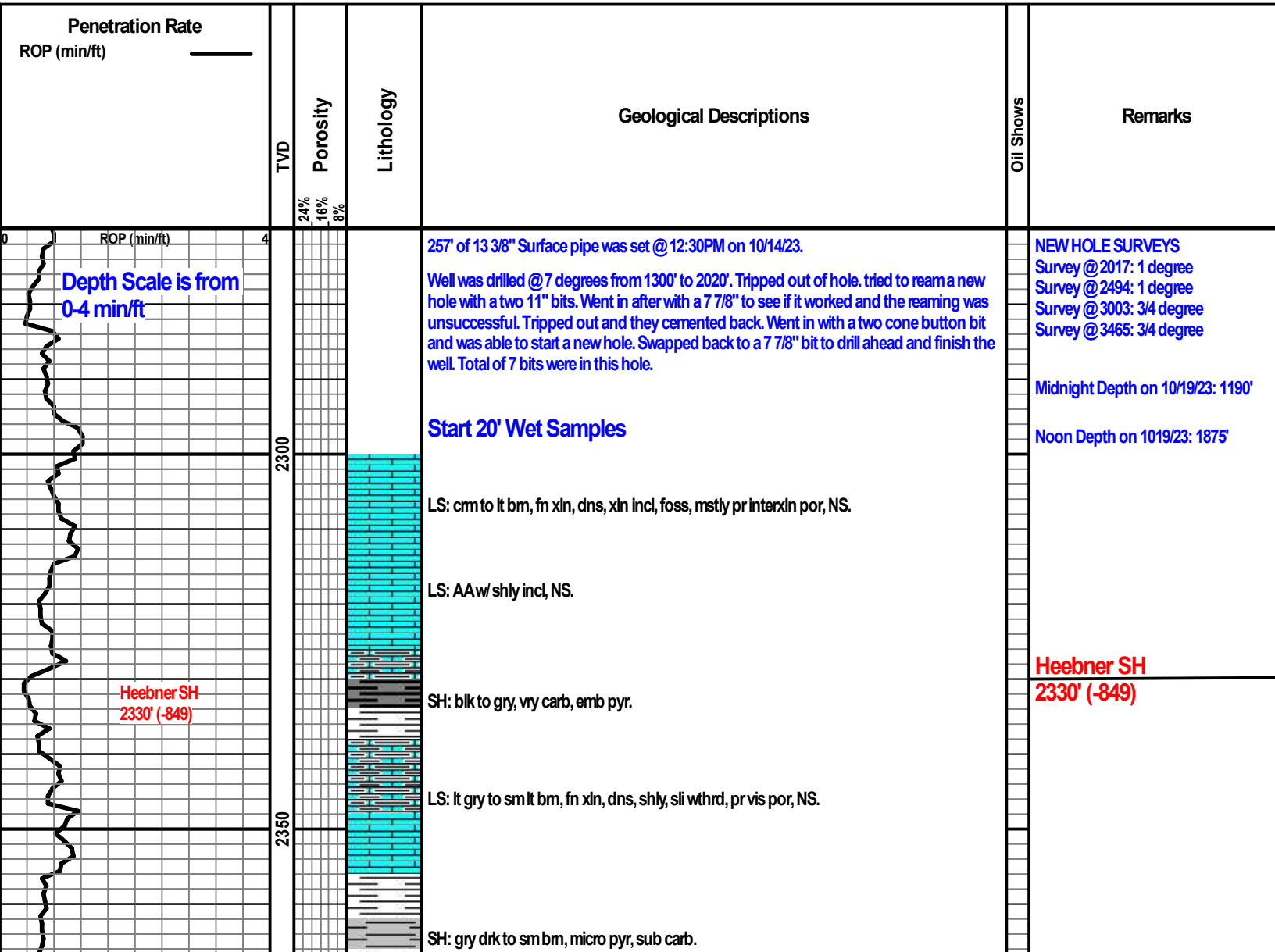
- Sandy ls str
- Shale
- Siltstone
- Sandstone

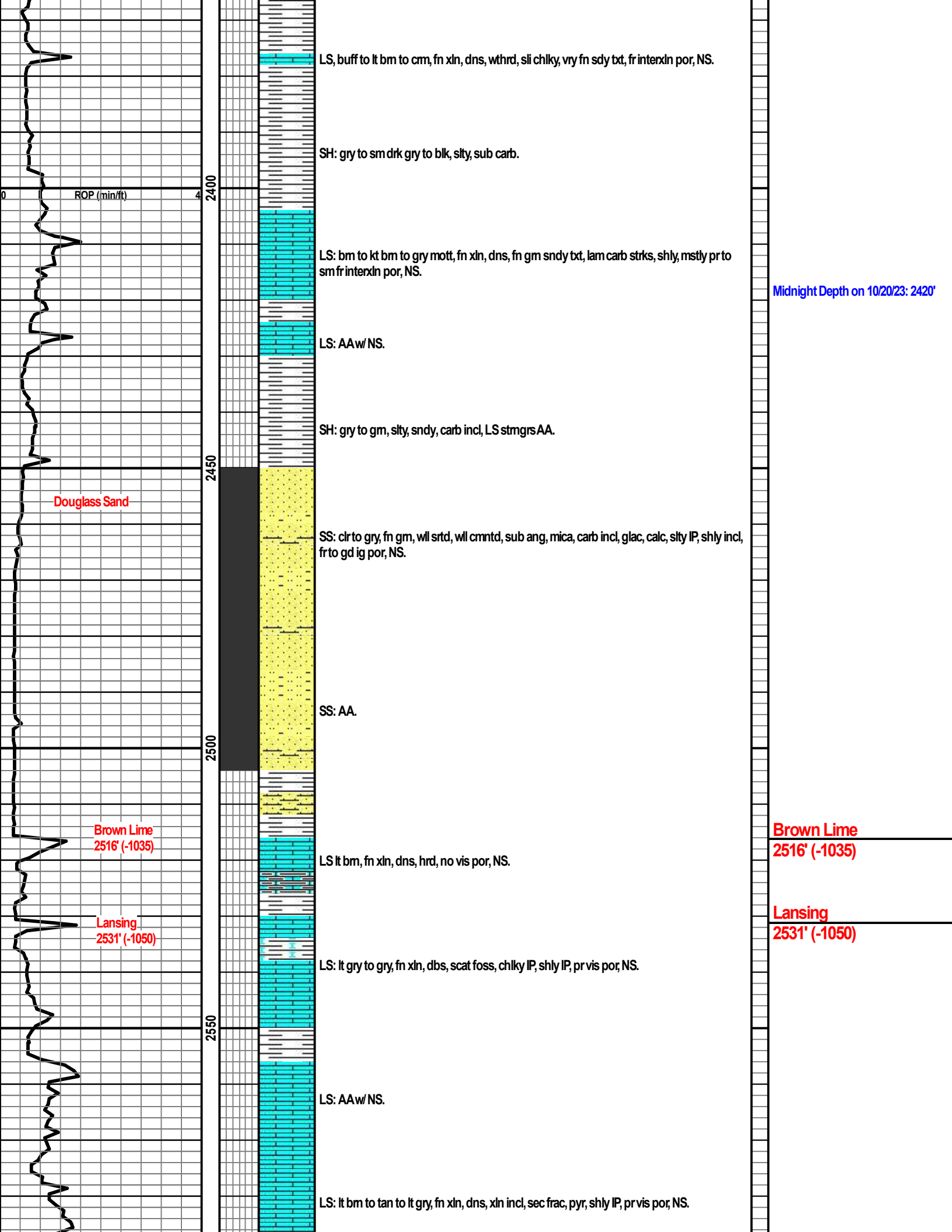
TEXTURE

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

OIL SHOW

- Even
- Spotted
- Ques
- Gas show
- Dead





LS: buff to lt bm to crm, fn xln, dns, wthrd, sli chlky, vry fn sdy txt, fr interxln por, NS.

SH: gry to sm drk gry to blk, slty, sub carb.

LS: bm to kt bm to gry mott, fn xln, dns, fn gm sndy txt, lam carb strks, shly, mstly pr to sm fr interxln por, NS.

LS: AAw/NS.

SH: gry to gm, slty, sndy, carb incl, LS stmgrsAA.

Douglass Sand

SS: clr to gry, fn gm, wll srted, wll cmntd, sub ang, mica, carb incl, glac, calc, slty IP, shly incl, fr to gd ig por, NS.

SS: AA.

Brown Lime
2516' (-1035)

LS lt bm, fn xln, dns, hrd, no vis por, NS.

Brown Lime
2516' (-1035)

Lansing
2531' (-1050)

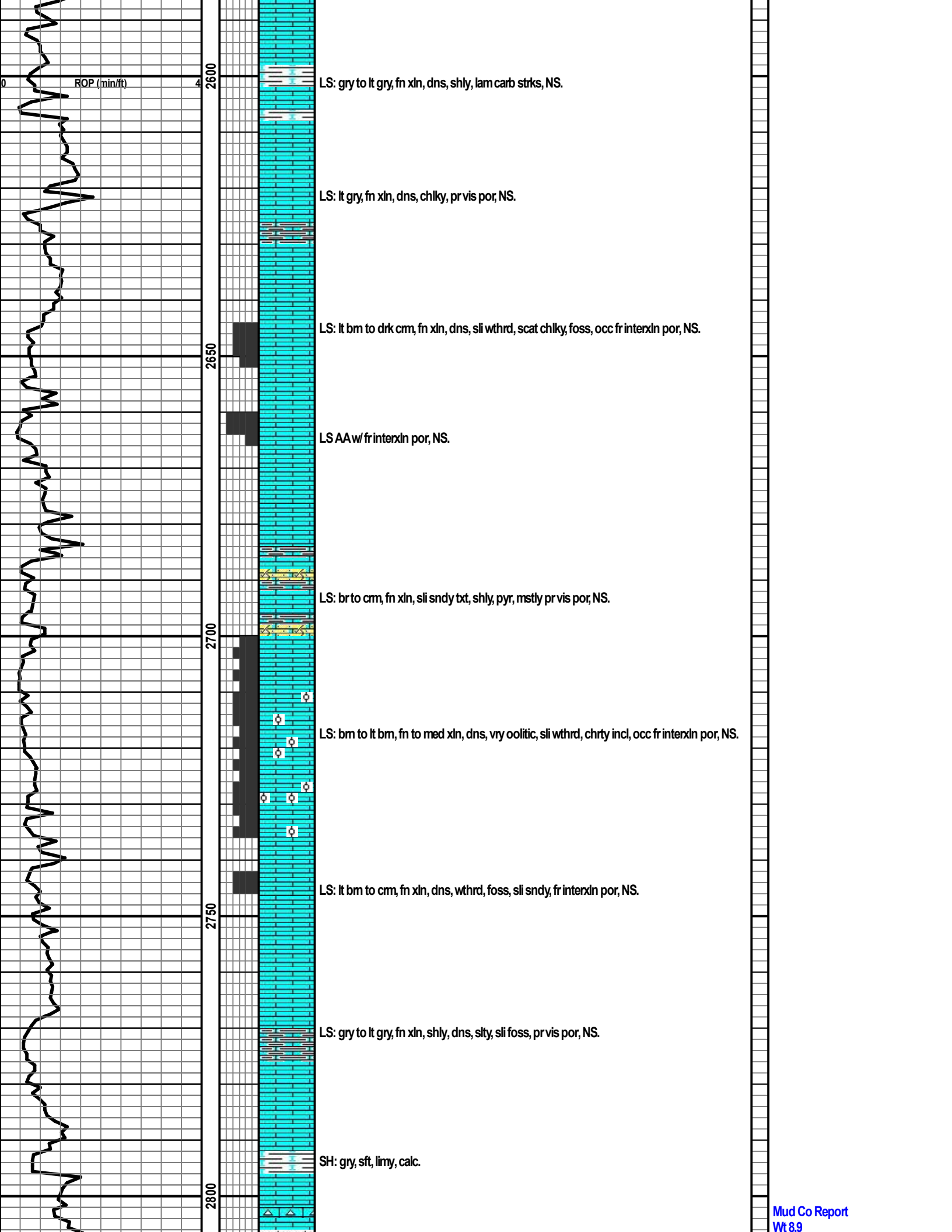
LS: lt gry to gry, fn xln, dbs, scat foss, chlky IP, shly IP, pr vis por, NS.

Lansing
2531' (-1050)

LS: AAw/NS.

LS: lt bm to tan to lt gry, fn xln, dns, xln incl, sec frac, pyr, shly IP, pr vis por, NS.

Midnight Depth on 10/20/23: 2420'



LS: gry to lt gry, fn xln, dns, shly, lam carb strks, NS.

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

LS: lt bm to drk cm, fn xln, dns, sli wthrd, scat chlky, foss, occ fr interxn por, NS.

LS AAw fr interxn por, NS.

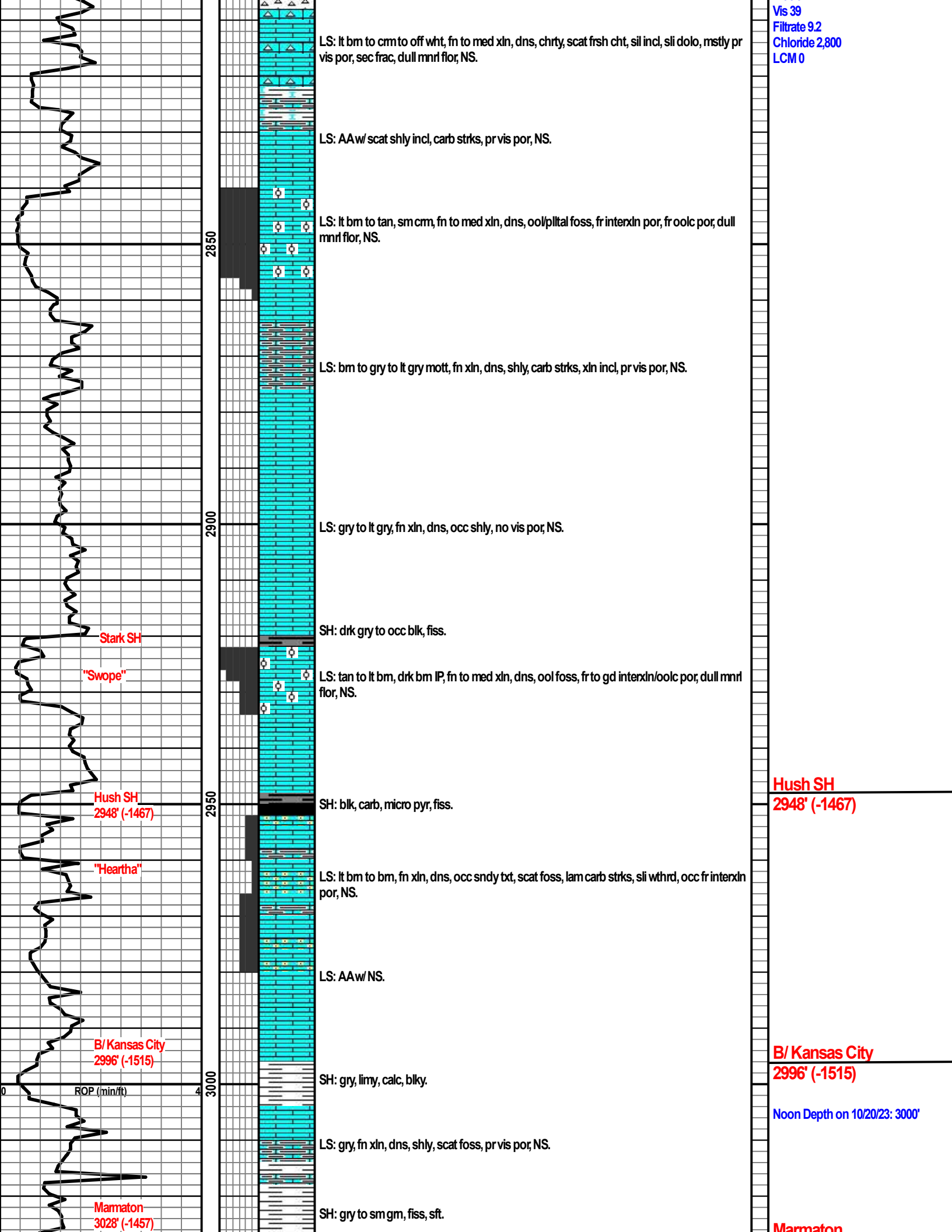
LS: br to cm, fn xln, sli sndy bxt, shly, pyr, mstly pr vis por, NS.

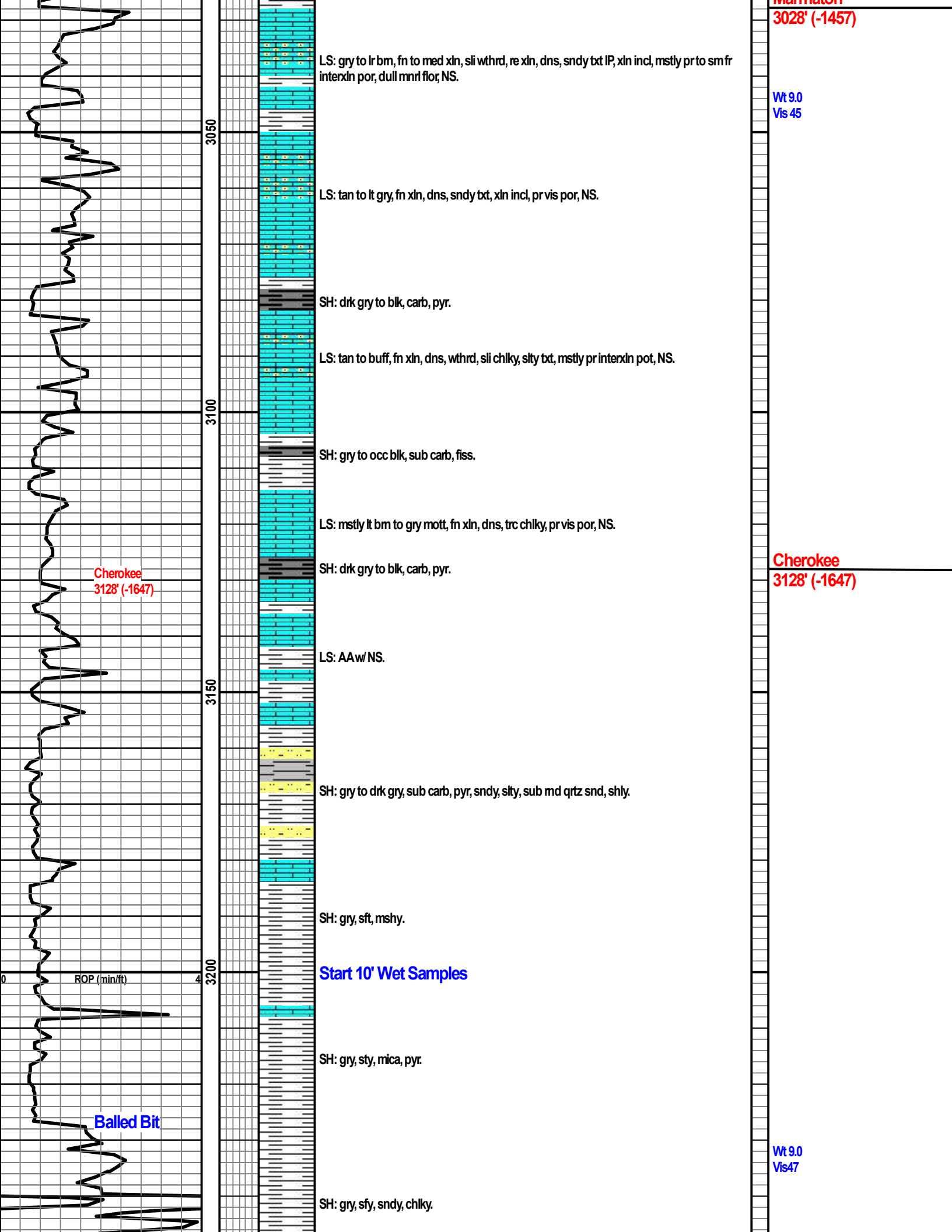
LS: bm to lt bm, fn to med xln, dns, vry oolitic, sli wthrd, chrty incl, occ fr interxn por, NS.

LS: lt bm to cm, fn xln, dns, wthrd, foss, sli sndy, fr interxn por, NS.

LS: gry to lt gry, fn xln, shly, dns, sly, sli foss, pr vis por, NS.

SH: gry, sft, limy, calc.





3028' (-1457)

Wt 9.0
Vis 45

LS: gry to lr bm, fn to med xln, sli wthrd, re xln, dns, sndy txt IP, xln incl, mstly pr to sm fr interxln por, dull mnrl flor, NS.

LS: tan to lt gry, fn xln, dns, sndy txt, xln incl, pr vis por, NS.

SH: drk gry to blk, carb, pyr.

LS: tan to buff, fn xln, dns, wthrd, sli chlky, sity txt, mstly pr interxln pot, NS.

SH: gry to occ blk, sub carb, fiss.

LS: mstly lt bm to gry mott, fn xln, dns, trc chlky, pr vis por, NS.

SH: drk gry to blk, carb, pyr.

Cherokee
3128' (-1647)

Cherokee
3128' (-1647)

LS: AAw/NS.

SH: gry to drk gry, sub carb, pyr, sndy, slty, sub md qrtz snd, shly.

SH: gry, sft, mshy.

Start 10' Wet Samples

SH: gry, sty, mica, pyr.

Balled Bit

SH: gry, sfy, sndy, chlky.

Wt 9.0
Vis 47

ROP (min/ft)

3050

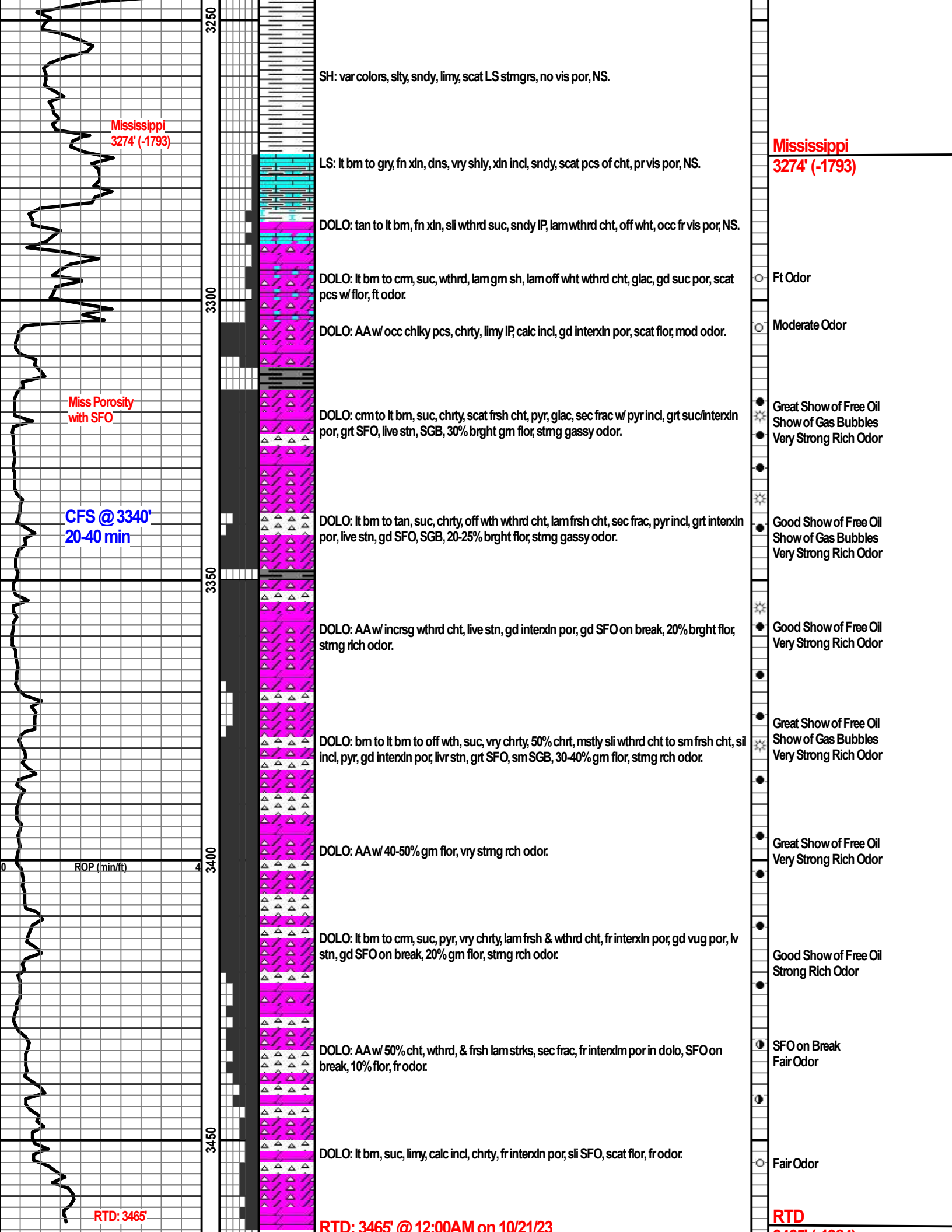
3100

3150

3200

0

4



LTD: 3465 @ 11:00AM on 10/21/23
Circ 1.5 hr. Wiper trip to collars. Circ 1.5hr. Come out sideways for logs.

LTD: 3465' @ 11:00AM on 10/21/23

3465' (-1984)

Mud Co Report

Wt 9.4

Vis 56

Filtrate 10.0

Chloride 3,400

LCM 2

3500