KOLAR Document ID: 1605413

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 # 34563
Name: Clapp, Carl O. III dba Clapp Oil
Address 1: 27064 309TH RD
Address 2:
City: CEDAR VALE State: KS Zip: 67024 + 9327
Contact Person: Trey Clapp
Phone: (580) 761-1254
CONTRACTOR: License # 32701
Name: C & G Drilling, Inc.
Wellsite Geologist: Brandon Wolfe
Purchaser:

Designate Type of Completion:
☑ New Well ☐ Re-Entry ☐ Workover
☑ Oil ☐ WSW ☐ SWD
☐ Gas ☐ DH ☐ EOR
☐ OG ☐ GSW
☐ CM *(Coal Bed Methane)*
☐ Cathodic ☐ Other *(Core, Expl., etc.)*:

If Workover/Re-entry: Old Well Info as follows:
Operator:
Well Name:
Original Comp. Date: Original Total Depth:
☐ Deepening ☐ Re-perf. ☐ Conv. to EOR ☐ Conv. to SWD
☐ Plug Back ☐ Liner ☐ Conv. to GSW ☐ Conv. to Producer

☐ Commingled Permit #:
☐ Dual Completion Permit #:
☐ SWD Permit #:
☐ EOR Permit #:
☐ GSW Permit #:

10/15/2021 Spud Date or Recompletion Date
10/21/2021 Date Reached TD
11/23/2021 Completion Date or Recompletion Date

API No.: 15-035-24747-00-00
Spot Description: 750 FSL of NW1/4 750FWL of NW1/4
SW - NE - SW - NE Sec. 1 Twp. 35 S. R. 7 ☑ East ☐ West
3390 Feet from ☐ North / ☑ South Line of Section
3390 Feet from ☐ East / ☑ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☐ SE ☑ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Cowley
Lease Name: SMITH Well #: C-1
Field Name:
Producing Formation: Miss
Elevation: Ground: 1224 Kelly Bushing: 1233
Total Vertical Depth: 2952 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 328 Feet
Multiple Stage Cementing Collar Used? ☑ Yes ☐ No
If yes, show depth set: 1414 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: 350 ppm Fluid volume: 500 bbls
Dewatering method used: Evaporated
Location of fluid disposal if hauled offsite:
Operator Name:
Lease Name: License #:
Quarter Sec. Twp. S. R. ☐ East ☐ West
County: Permit #:

AFFIDAVIT
I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY
☐ **Confidentiality Requested**
Date: 01/06/2022
☐ **Confidential Release Date:** 01/06/2024
☑ **Wireline Log Received** ☐ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** Deanna Garrison **Date:** 01/14/2022

Operator Name: Clapp, Carl O. III dba Clapp Oil Lease Name: SMITH Well #: C-1

Sec. 1 Twp. 35 S. R. 7 ☑ East ☐ West County: Cowley

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken *(Attach Additional Sheets)*	☐ Yes	☑ No
Samples Sent to Geological Survey	☑ Yes	☐ No
Cores Taken	☐ Yes	☑ No
Electric Log Run	☑ Yes	☐ No
Geologist Report / Mud Logs	☑ Yes	☐ No

List All E. Logs Run:
Attached

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

Name	Top	Datum
micro	300	2900
density	350	2952
duel induction	300	2950
geo	325	2952

CASING RECORD ☑ New ☐ Used
Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12.25	8.625	24	328	Class A	205	2%gel calchr
Production	7.875	5.5	17	2945	Thick set	140	Kol-seal

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
☐ Perforate ☐ Protect Casing ☐ Plug Back TD ☐ Plug Off Zone	-			
	-			

1. Did you perform a hydraulic fracturing treatment on this well? ☐ Yes ☑ No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? ☐ Yes ☐ No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? ☐ Yes ☐ No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/ Injection: 12/15/2021	Producing Method: ☐ Flowing ☑ Pumping ☐ Gas Lift ☐ Other *(Explain)*					
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity	

DISPOSITION OF GAS:	METHOD OF COMPLETION:	PRODUCTION INTERVAL:	
		Top	Bottom
☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*	☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*	2696	2748

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record *(Amount and Kind of Material Used)*
2	2696	2748			

TUBING RECORD: Size: Set At: Packer At:

Mail to: KCC - Conservation Division, 266 N. Main, Suite 220, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Clapp, Carl O. III dba Clapp Oil
Well Name	SMITH C-1
Doc ID	1605413

All Electric Logs Run

microlog
density log
duel induction
geo report

Form	ACO1 - Well Completion
Operator	Clapp, Carl O. III dba Clapp Oil
Well Name	SMITH C-1
Doc ID	1605413

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	24	328	Class A	205	2%gel calchr
Production	7.875	5.5	17	2945	Thick set	140	Kol-seal

Elite Cementing & Acidizing of KS, LLC
PO Box 92
Eureka, KS 67045

Date	Invoice #
10/19/2021	5948

Bill To
Clapp Oil Trey Clapp 32334 262nd Rd Cedar Vale, KS 67024

Customer ID#	1094

Job Date	10/16/2021
Lease Information	
Smith #C-1	
County	Cowley
Foreman	DG

			Terms	Net 15
Item	Description	Qty	Rate	Amount
C101	Cement Pump-Surface	1	890.00	890.00
C107	Pump Truck Mileage (one way)	80	4.20	336.00
C200	Class A Cement-94# sack	205	17.35	3,556.75T
C205	Calcium Chloride	580	0.69	400.20T
C206	Gel Bentonite	385	0.28	107.80T
C208	Pheno Seal	205	1.45	297.25T
C108B	Ton Mileage-per mile (one way)	770.4	1.40	1,078.56
D101	Discount on Services		-115.22	-115.22
D102	Discount on Materials		-218.10	-218.10T

We appreciate your business!

Phone #	Fax #	E-mail
620-583-5561	620-583-5524	rene@elitecementing.com

Send payment to:
Elite Cementing & Acidizing of KS, LLC
PO Box 92
Eureka, KS 67045

Subtotal	$6,333.24
Sales Tax (6.5%)	$269.35
Total	$6,602.59
Payments/Credits	$0.00
Balance Due	$6,602.59

Elite Cementing & Acidizing of KS, LLC
PO Box 92
Eureka, KS 67045

Date	Invoice #
10/21/2021	5975

Bill To
Clapp Oil Trey Clapp 32334 262nd Rd Cedar Vale, KS 67024

Customer ID#	1094

Job Date	10/19/2021
Lease Information	
Smith #C-1	
County	Cowley
Foreman	KM

			Terms	Net 15
Item	Description	Qty	Rate	Amount
C102	Cement Pump-Longstring	1	1,100.00	1,100.00
C107	Pump Truck Mileage (one way)	80	4.20	336.00
C201	Thick Set Cement	140	22.55	3,157.00T
C207	KolSeal	700	0.52	364.00T
C208	Pheno Seal	280	1.45	406.00T
C108B	Ton Mileage-per mile (one way)	616	1.40	862.40
C421	5 1/2" Latch Down Plug	1	266.00	266.00T
C661	5 1/2" AFU Float Shoe	1	340.00	340.00T
C250	5 1/2" Port Collar	1	1,850.00	1,850.00T
C604	5 1/2" Cement Basket	3	260.00	780.00T
C504	5 1/2" Centralizer	11	55.00	605.00T
C222	KCL	2	30.00	60.00T
D101	Discount on Services		-114.92	-114.92
D102	Discount on Materials		-391.40	-391.40T

We appreciate your business!

Phone #	Fax #	E-mail
620-583-5561	620-583-5524	rene@elitecementing.com

Send payment to:
Elite Cementing & Acidizing of KS, LLC
PO Box 92
Eureka, KS 67045

Subtotal	$9,620.08
Sales Tax (6.5%)	$483.38
Total	$10,103.46
Payments/Credits	$0.00
Balance Due	$10,103.46

Osage Wireline, Inc.

PO Box 490
Cleveland, OK 74020

Invoice

Date	Invoice #
10/20/2021	03215

Bill To
CLAPP OIL 27064 309TH ROAD CEDERVALE, KS 67024-9327

Lease/Well No.	Legal Description	Terms	Field Work Order No.
SMITH C-1	1 35S 7E - COWLEY	Due on receipt	8993

Item	Description	Rate	Service Date	Amount
Open Hole	RUN COLN ILD MEL LTO 2950'	3,700.00	10/18/2021	3,700.00

Please include Invoice number w/ Payment. Any Invoices 90 day or older will be subject to an 18% APR

Total	$3,700.00
Payments/Credits	$0.00
Balance Due This Invoice	$3,700.00

Phone #
918.358.5155

E-mail
carolyn@osagewirelineinc.com

LOCATION AND LEGALS DATA

WellSight Systems

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

Well Name:	Smith C 1		
API:	15-035-24744		
Location:	SW NE SW NE S1-T34S-R7E		
License Number:	34563	**Region:**	Cowley County, KS
Spud Date:	10/15/21	**Drilling Completed:**	10/18/21
Surface Coordinates:	3390' FSL, 3390' FWL		
Bottom Hole Coordinates:			
Ground Elevation (ft):	1224'	**K.B. Elevation (ft):**	1233'
Logged Interval (ft):	Surface To: 2950'	**Total Depth (ft):**	2952'
Formation:	Mississippi		
Type of Drilling Fluid:	Chemical		

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

OPERATOR

Company: Clapp Oil
Address: 27064 309th Rd
Ceder Vale, KS, 67024-9327

GEOLOGIST

Name: Brandon Wolfe
Company:
Address: 1016 N Biddle St
Moline, KS 67353

CONTRACTORS

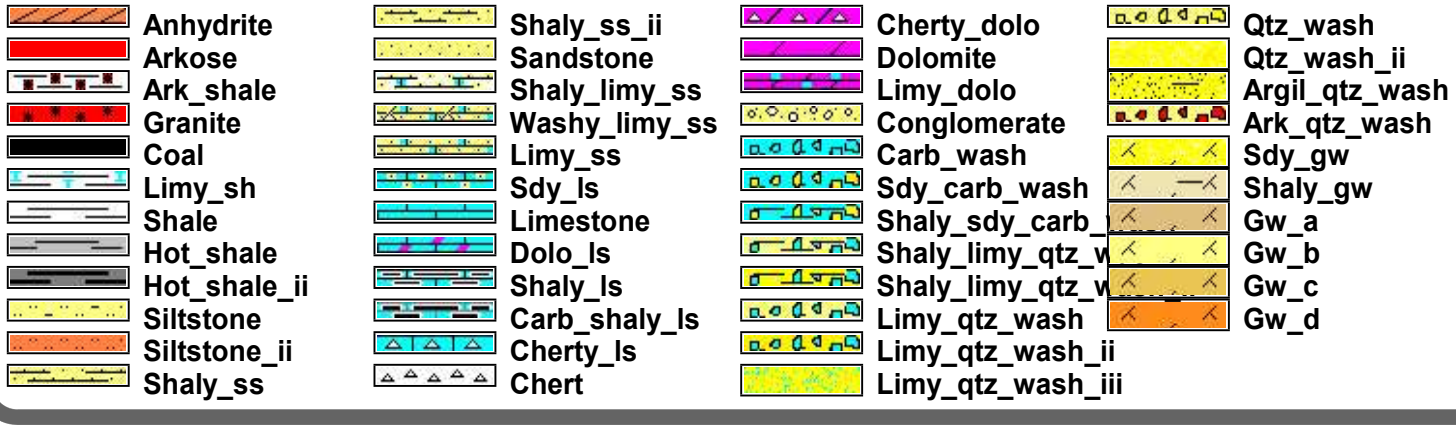
Drilling Rig: (Rig 2) C&G Drilling Inc. 701 E River St. Eureka, KS 67045-2100
Drilling Fluids: Fud Mud
Open Hole Logs: Osage Wireline

COMMENTS

5 1/2" Casing was ran to bottom and cemented in place with cement to futher evaluate the Mississippi Formation. Note: Ran port-collar to get cement to surface.

Formation	Sample Tops	Log Tops
Oread Lime	1007' (+217)	1002' (+222)
Iatan	1321' (-97)	1305' (-81)
Stalanker	1338' (-114)	1322' (-98)
Perry Lime	1628' (-404)	1622' (-398)
Perry Sand	1632' (-408)	1626' (-402)
Layton	1794 ' (570)	1792' (-568)
Lower Layton	1844' (-660)	1884' (-660)
Redd Sand	2026' (-802)	2018' (-796)
Lenapah	2214' (-990)	2208' (-984)
Big Lime	2272' (-1048)	2268' (-1044)
Altamont	2302' (-1078)	2297' (-1073)
Pawnee	2349' (-1125)	2348' (-1124)
Fort Scott	2398' (-1174)	2398' (-1174)
Cherokee	2468' (-1244)	2464' (-1140)
Mississippi Chat	2700' (-1476)	2696' (-1472)

ROCK TYPES



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
- Brecfrag
- 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

Sample Descriptions

Layton 1794' (-507)

1794'-1802'

Sandstone - light grey with brown tent, fine grain, moderatly sorted, well cemented, tight, sub angular, calc matrix, mica & pyrite, fair intergranular porosity, oil stain throughout, show of free oil with gas bubbles, heavy residual cut, 30-35% fluorescence, strong odor.

1838'-1850'

Sandstone - light grey with brown tent, fine to occasional coarse grain, moderatly sorted, well cemented, sub angular, calc matrix, mica & carb inclusions, great intergranular porosity, oil stain throughout, show of free oil with gas bubbles, great streaming cut with heavy residual ring, 40% fluorescence, strong odor.

1884'-1910'

Sandstone - light grey with brown tent, coarse to fine grain, angular, moderatly sorted, well cemented, calc matrix, friable, mica & carb inclusions, great intergranular porosity, oil stain throughout, show of free oil, great streaming cut with heavy residual ring, 40% fluorescence, strong odor.

Redd Sand 2026' (-802)

2026'-2038'

Sandstone - grey to brown, fine grain, poorly sorted, tight, sub angular, calc matrix, mica & glauconite, carb inclusions, good intergranular porosity, good stain, show of free oil, good crush cut w/ residual ring, 30% fluorescence, fair odor.

Altamont 2302' (-1078)

2302'-2310'

Limestone: brown to grey mott, fine crystalline, dense, heavy recrystallixation, crystalline inclusions, occasionaly weathered with vuggular porosity, occasional stain, show of free oil with gas bubbles, slow moderate milky cut, 20% bright green fluorescence, strong odor.

Pawnee 2349' (-1125)

2355'-2365'

Limestone: light brown to buff, fine to medium crystalline, dense, highly weathered heavy recrystallixation, crystalline inclusions, occasional glauconite and pyrite, great intercrystalline porosity, stain throughout, great show of free oil with gas bubbles, moderate milky cut with residual ring, 80% bright green blue fluorescence, strong odor.

Fort Scottt 2398' (-1174)

2398'-2410'

Limestone: brown to grey, fine crystalline, dense, hard, heavy recrystallixation with crystalline inclusions, trace secendary fractures, fair intercrystalline porosity, occasional stain, show of free oil on break, 10% dull green fluorescence, fair odor.

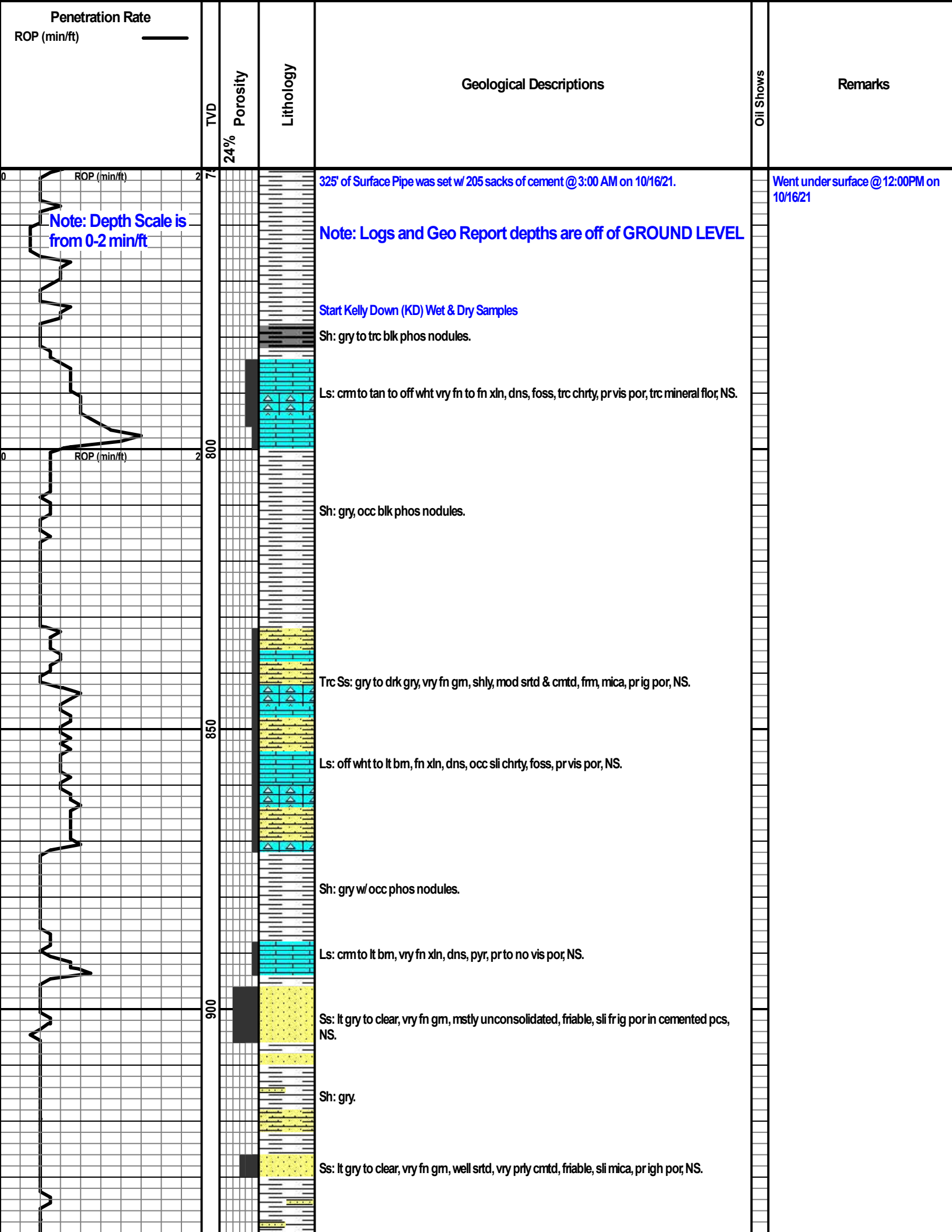
Mississippi Chat 2700' (-1476)

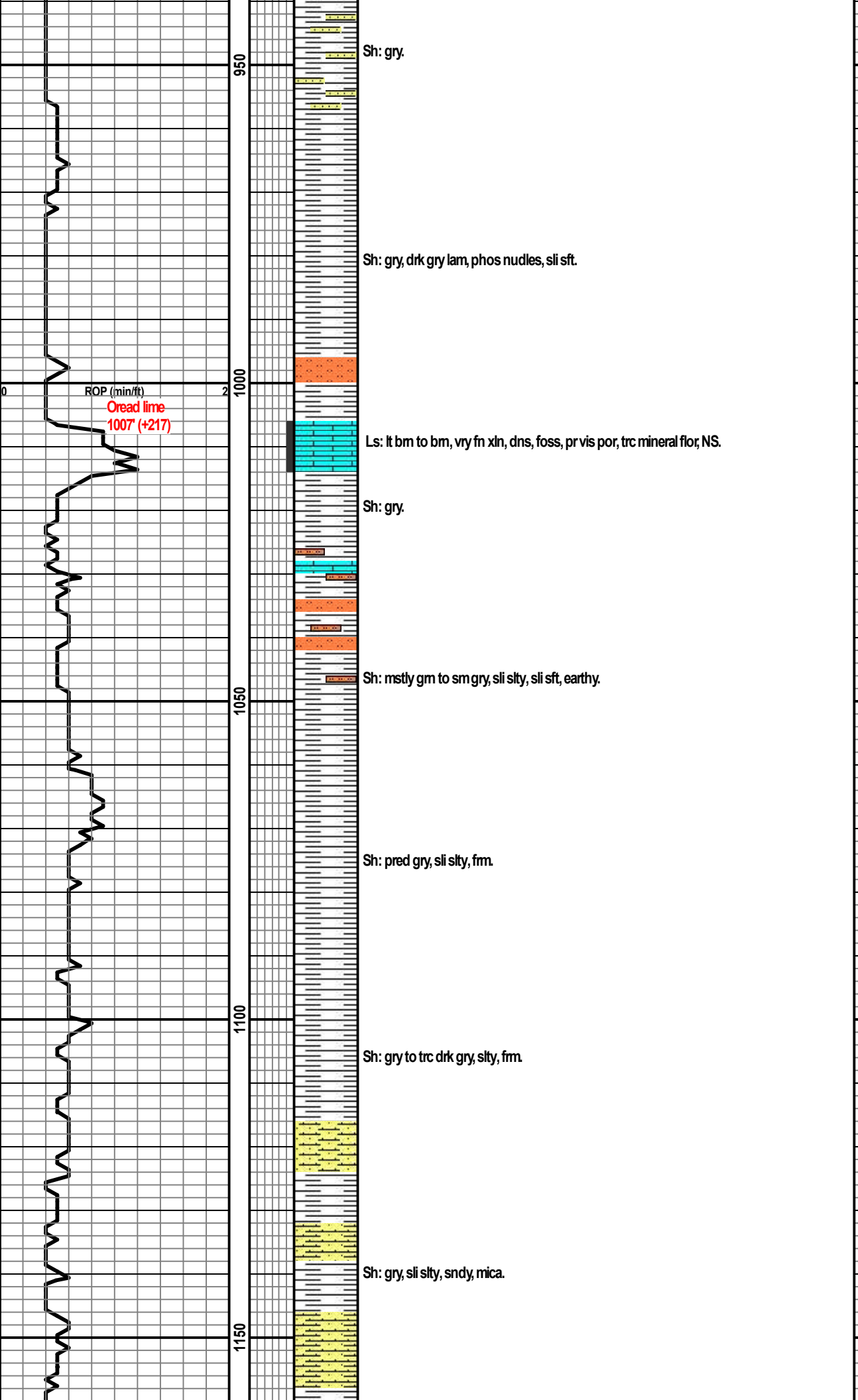
2700'-2715'

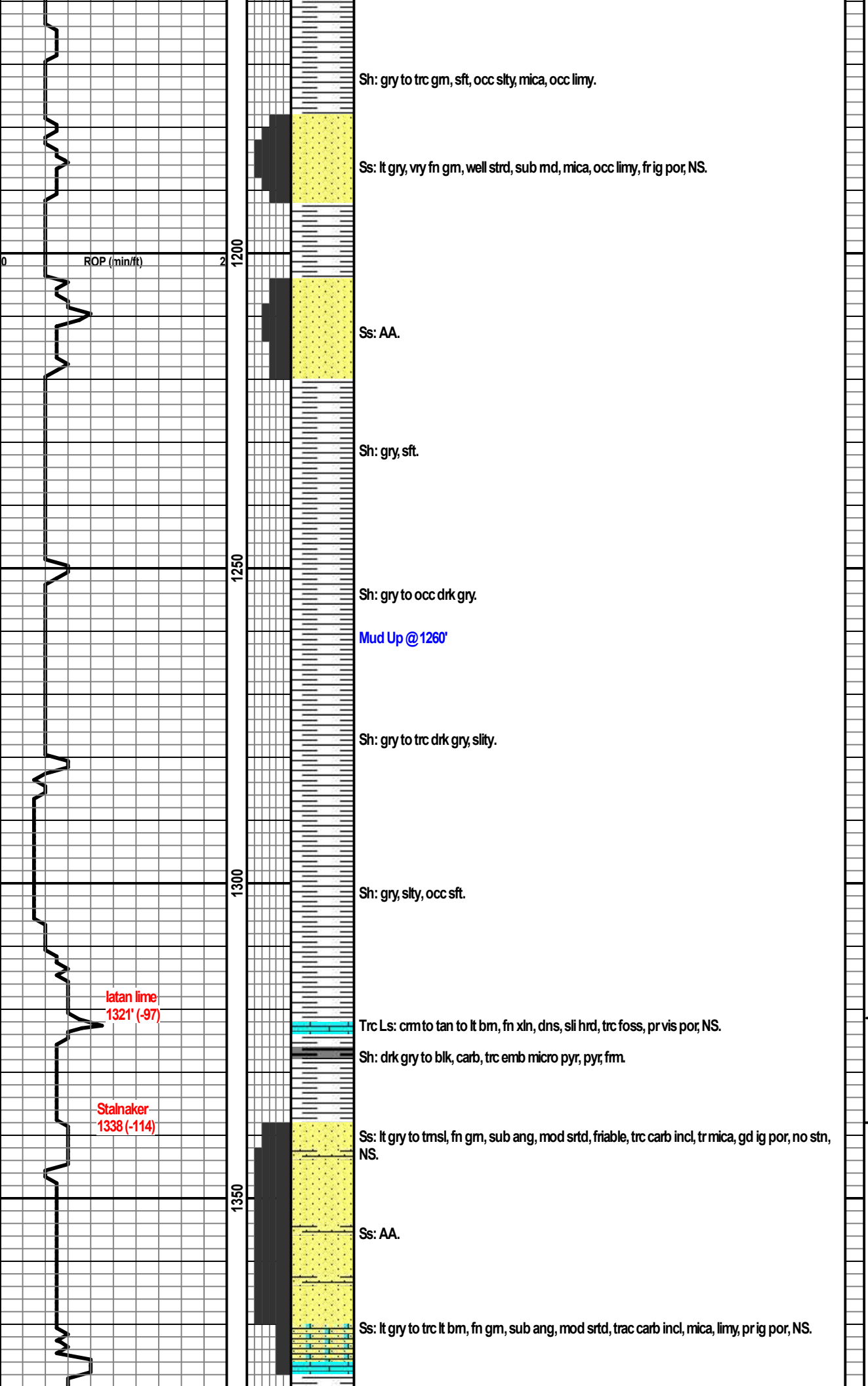
Chert - off white to cream to various browns mott, opaque, tripolitic, sandy in parts, laminated black streaks, highly reworked and weathered, occasionally some hard fresh white chert, heavy calc/slic/glac/phos/pyr minerals, great tripolitic and pinpoint porosity, occasional vugular porosity, good stain throughout, great show of free oil with gas bubbles, fast streaming cut with heavy residual ring, over 50% bright yellow green flouresence, strong odor.

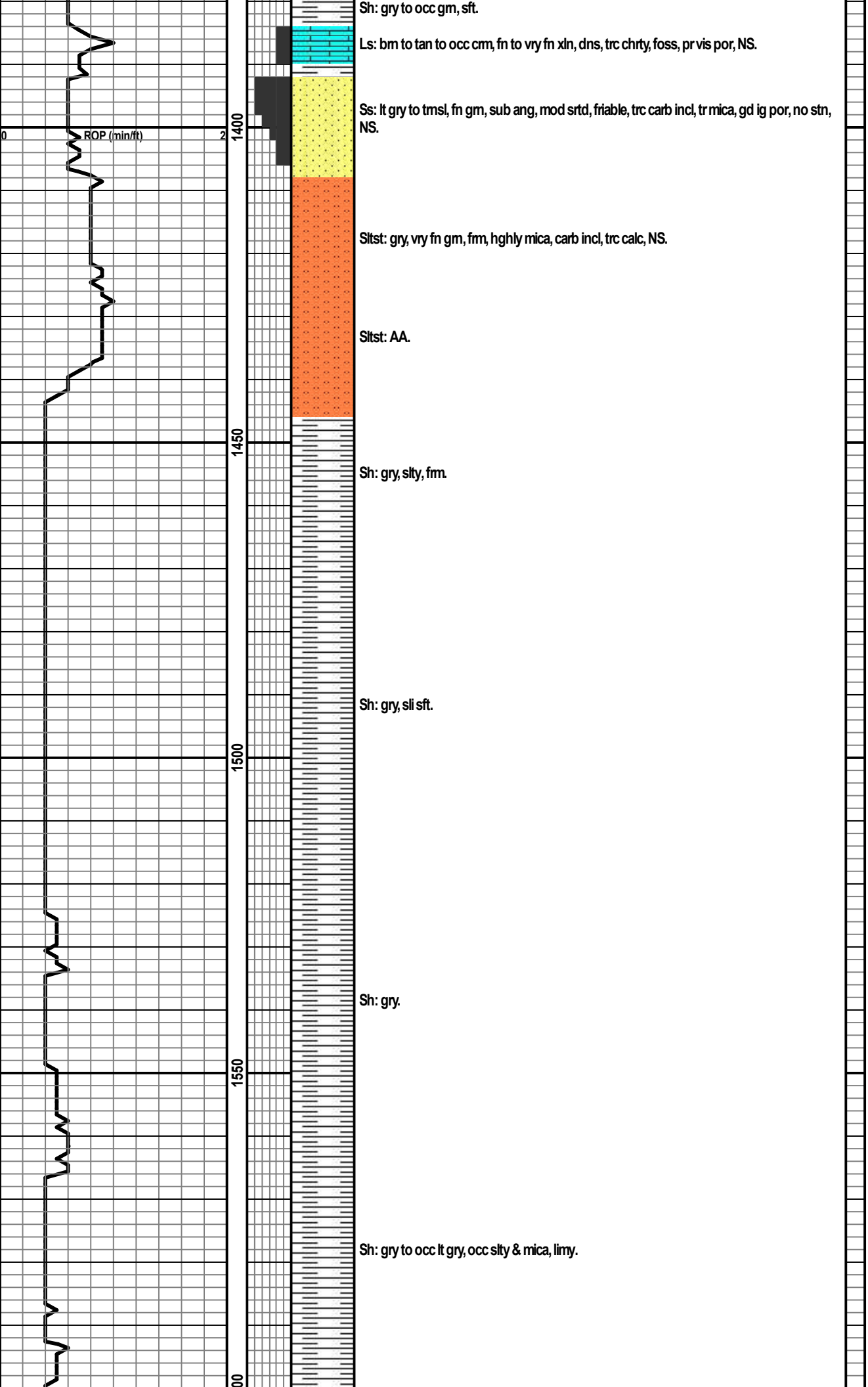
2715'-2850'

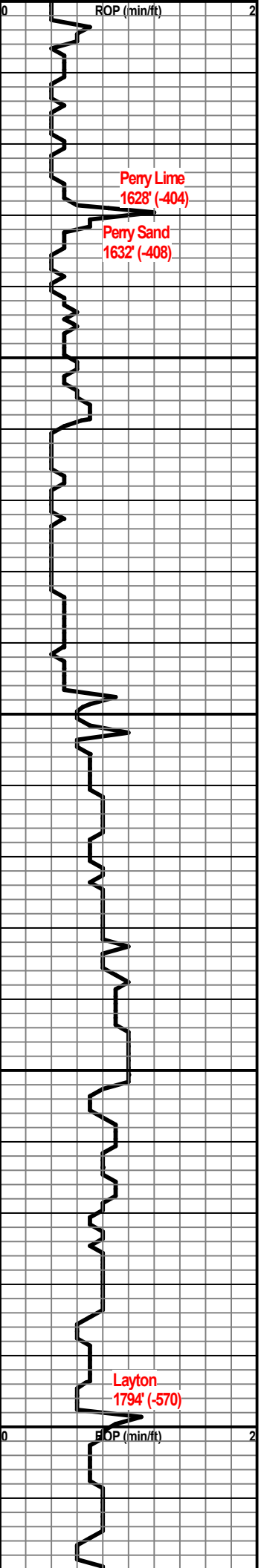
Merrimack Cherty Limestone - off white to cream to various browns mott to occ gry, fine to medium crystalline, heavy recrystallixation with crystalline inclusions, sandy and dolomitic in parts, laminated black streaks, highly laminated with reworked and weathered chert, occasionally some hard fresh white blue chert, heavy calc/slic/glac/phos/pyr minerals, great tripolitic, pinpoint, and intercrystalline porosity, occasional vugular porosity, good stain throughout, great show of free oil with gas bubbles, fast streaming cut with heavy residual ring, up to 40% yellow green blue flouresence, strong odor.


Penetration Rate
ROP (min/ft)
TVD
Porosity
24%
Lithology
Geological Descriptions
Oil Shows
Remarks
0
ROP (min/ft)
2
Note: Depth Scale is from 0-2 min/ft
700
800
850
900
325' of Surface Pipe was set w/ 205 sacks of cement @ 3:00 AM on 10/16/21.
Note: Logs and Geo Report depths are off of GROUND LEVEL
Start Kelly Down (KD) Wet & Dry Samples
Sh: gry to trc blk phos nodules.
Ls: crm to tan to off wht vry fn to fn xln, dns, foss, trc chrty, pr vis por, trc mineral flor, NS.
Sh: gry, occ blk phos nodules.
Trc Ss: gry to drk gry, vry fn grn, shly, mod srtd & cmtd, frm, mica, pr ig por, NS.
Ls: off wht to lt brn, fn xln, dns, occ sli chrty, foss, pr vis por, NS.
Sh: gry w/ occ phos nodules.
Ls: crm to lt brn, vry fn xln, dns, pyr, pr to no vis por, NS.
Ss: lt gry to clear, vry fn grn, mstly unconsolidated, friable, sli fr ig por in cemented pcs, NS.
Sh: gry.
Ss: lt gry to clear, vry fn grn, well srtd, vry prly cmtd, friable, sli mica, pr igh por, NS.
Went under surface @ 12:00PM on 10/16/21


950
1000
1050
1100
1150
0
ROP (min/ft)
2
Oread lime
1007' (+217)
Sh: gry.
Sh: gry, drk gry lam, phos nudles, sli sft.
Ls: lt brn to brn, vry fn xln, dns, foss, pr vis por, trc mineral flor, NS.
Sh: gry.
Sh: mstly grn to sm gry, sli slty, sli sft, earthy.
Sh: pred gry, sli slty, frm.
Sh: gry to trc drk gry, slty, frm.
Sh: gry, sli slty, sndy, mica.
Oread lime
1007' (+217)
Midnight Depth on 10/17/21: 1150'


0
ROP (min/ft)
2
1200
1250
1300
1350
Iatan lime
1321' (-97)
Stalnaker
1338 (-114)
Sh: gry to trc gm, sft, occ slty, mica, occ limy.
Ss: lt gry, vry fn gm, well strd, sub rnd, mica, occ limy, fr ig por, NS.
Ss: AA.
Sh: gry, sft.
Sh: gry to occ drk gry.
Mud Up @ 1260'
Sh: gry to trc drk gry, slity.
Sh: gry, slty, occ sft.
Trc Ls: crm to tan to lt brn, fn xln, dns, sli hrd, trc foss, pr vis por, NS.
Sh: drk gry to blk, carb, trc emb micro pyr, pyr, frm.
Ss: lt gry to tmsl, fn gm, sub ang, mod srtd, friable, trc carb incl, tr mica, gd ig por, no stn, NS.
Ss: AA.
Ss: lt gry to trc lt brn, fn gm, sub ang, mod srtd, trac carb incl, mica, limy, pr ig por, NS.
Iatan lime
1321' (-97)
Stalnaker
1338 (-114)


0
ROP (min/ft)
2
1400
1450
1500
1550
Sh: gry to occ gm, sft.
Ls: bm to tan to occ crm, fn to vry fn xln, dns, trc chrty, foss, pr vis por, NS.
Ss: lt gry to tmsl, fn gm, sub ang, mod srtd, friable, trc carb incl, tr mica, gd ig por, no stn, NS.
Sltst: gry, vry fn gm, frm, hghly mica, carb incl, trc calc, NS.
Sltst: AA.
Sh: gry, slty, frm.
Sh: gry, sli sft.
Sh: gry.
Sh: gry to occ lt gry, occ slty & mica, limy.



Ss: lt gry, vry fn gm to occ slty, sub rnd, wll strd & cmntd, tght, frm, shly, limy, mica, pr vis por, NS.

Ls: brn, vry fn xln, chrt incl, sli sndy, pr vis por, NS.

Ss: gry to occ trnsl, mstly fn gm to crs gm, sub rnd, mod strd, frm, mica, carb incl, gd ig por, NS.

Ss: gry, vry fn to fn gm, wll srtd & cmtd, mica, carb incl, sub ang, fr ig por, NS.

Sltst: lt gry, vry fn gm, sli mica, limy, shly, frm.

Sh: drk gry, sli slty.

Sh: gry to occ drk gry, frm.

Fud Mud Check: Wt 9.0 Vis 31 Filtrate API 11.8 Chloride 1,100 LCM 0

Start 10' Wet & Dry Samples

Sh: gry to occ drk gry, sli slty, mica, trc sandy.

Ss: lt gry to lt brn tnt, fn gm, mod srtd, wll cmntd, sub ang, calc mtrx, mica & pyr, carb incl, fr ig por, tight, oil stn throughout, SFO, sm show of gas bubbles, grt hvy res cut, 30-35% gm flor, strng odor.

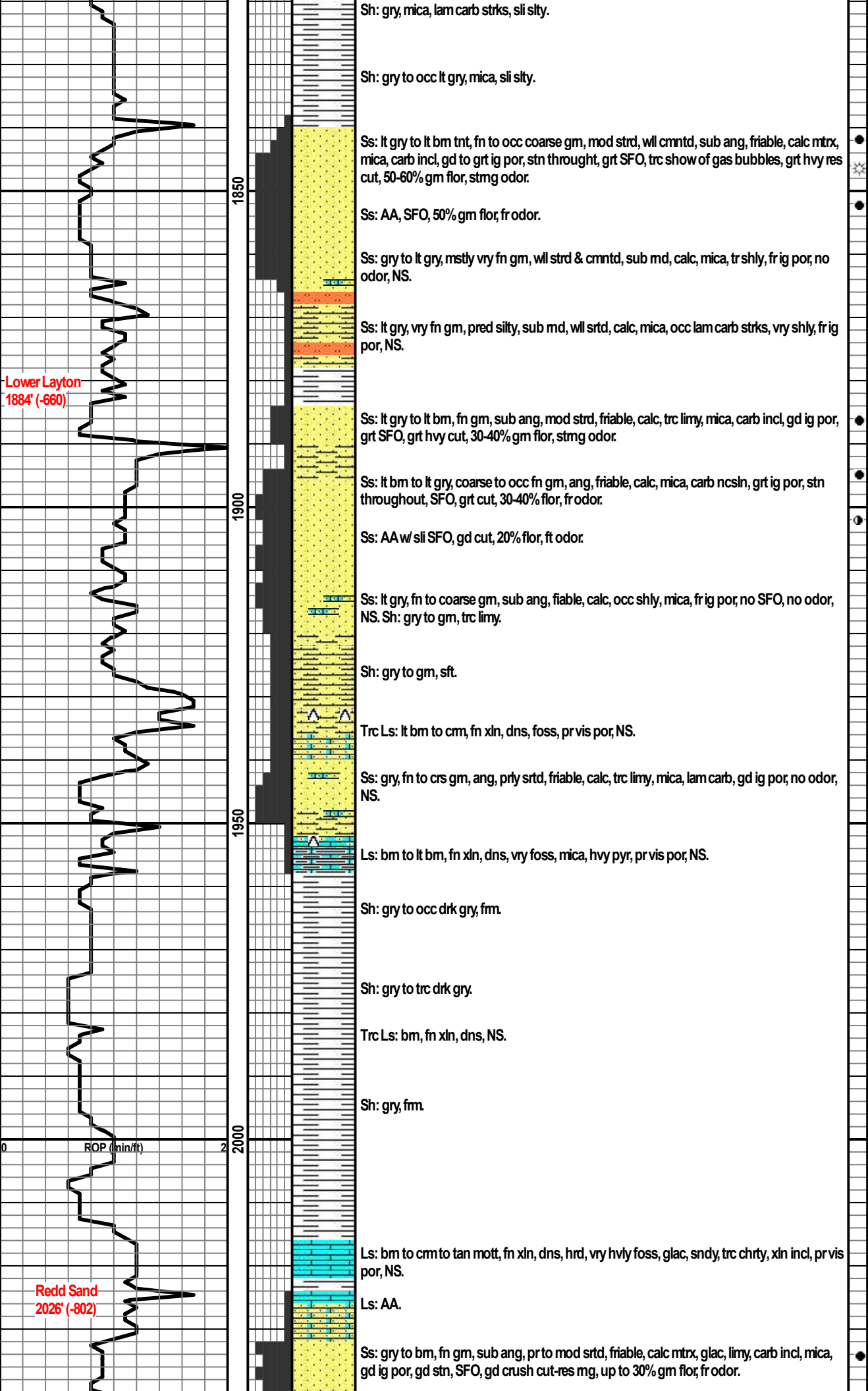
Ss: lt gry to gry, AA, vry sli SFO, trc stn, 10% flor, ft odor.

Perry Lime
1628' (-404)

Perry Sand
1632' (-408)

Layton
1794' (-570)

- Show of Free Oil
- Show of Gas Bubbles
- Strong Odor



Sh: gry, mica, lam carb strks, sli slty.

Sh: gry to occ lt gry, mica, sli slty.

Ss: lt gry to lt brn tnt, fn to occ coarse gm, mod strd, wll cmntd, sub ang, friable, calc mtrx, mica, carb incl, gd to grt ig por, stn throught, grt SFO, trc show of gas bubbles, grt hvy res cut, 50-60% gm flor, stmg odor.

Great Show of Free Oil
Show of Gas Bubbles
Strong Odor

Ss: AA, SFO, 50% gm flor, fr odor.

Ss: gry to lt gry, mstly vry fn gm, wll strd & cmntd, sub md, calc, mica, tr shly, fr ig por, no odor, NS.

Ss: lt gry, vry fn gm, pred silty, sub md, wll srtd, calc, mica, occ lam carb strks, vry shly, fr ig por, NS.

Lower Layton
1884' (-660)

Ss: lt gry to lt brn, fn gm, sub ang, mod strd, friable, calc, trc limy, mica, carb incl, gd ig por, grt SFO, grt hvy cut, 30-40% gm flor, stmg odor.

Great Show of Free Oil
Strong Odor

Ss: lt brn to lt gry, coarse to occ fn gm, ang, friable, calc, mica, carb ncsln, grt ig por, stn throughout, SFO, grt cut, 30-40% flor, fr odor.

Ss: AA w/ sli SFO, gd cut, 20% flor, ft odor.

Ss: lt gry, fn to coarse gm, sub ang, fiable, calc, occ shly, mica, fr ig por, no SFO, no odor, NS. Sh: gry to gm, trc limy.

Sh: gry to gm, sft.

Trc Ls: lt brn to crm, fn xln, dns, foss, pr vis por, NS.

Noon Depth on 10/17/21: 1935'

Ss: gry, fn to crs gm, ang, prly srtd, friable, calc, trc limy, mica, lam carb, gd ig por, no odor, NS.

Ls: brn to lt brn, fn xln, dns, vry foss, mica, hvy pyr, pr vis por, NS.

Sh: gry to occ drk gry, frm.

Sh: gry to trc drk gry.

Trc Ls: brn, fn xln, dns, NS.

Sh: gry, frm.

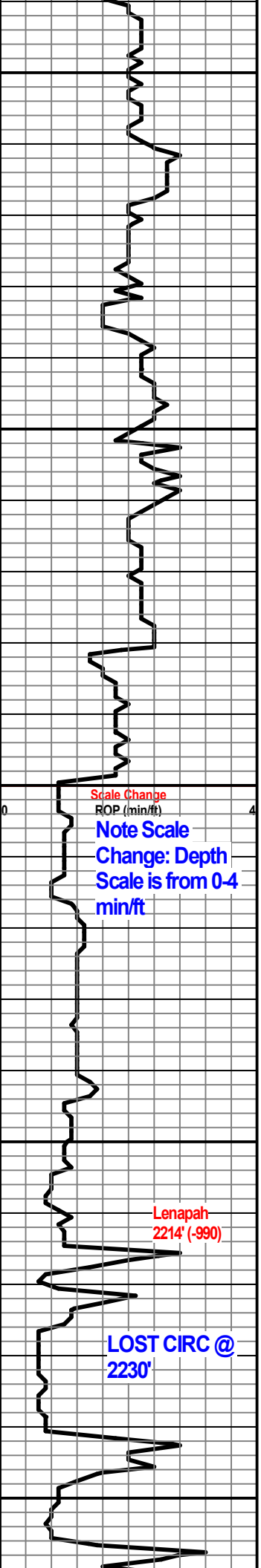
Ls: brn to crm to tan mott, fn xln, dns, hrd, vry hvly foss, glac, sndy, trc chrty, xln incl, pr vis por, NS.

Redd Sand
2026' (-802)

Ls: AA.

Ss: gry to brn, fn gm, sub ang, pr to mod srtd, friable, calc mtrx, glac, limy, carb incl, mica, gd ig por, gd stn, SFO, gd crush cut-res rng, up to 30% gm flor, fr odor.

Good Show of Free Oil
Fair Odor



Ss: AA, w/ 15% flor, ft odor.

Ss: gry to lt brn tnr, fn grn, sub rnd, mod srtd, friable, mica, trc carb, gd ig por, NS.

Wt 9.3 Vis 37

Ss: AA w/ NS.

Sltst: gry to lt gry, vry fn grn, mica, carb lam.

Sltst: AA.

Sh: gry to grn, trc emb pyr.

Sh: gry to drk, sli frm.

Sh: gry to drk gry, sft.

Sh: gry to drk gry, sft, occ chlky.

Sh: gry to drk gry, carb lam.

Sh: blk to drk gry, sub carb, sh odor.

Sh: blk, hgly carb, coal, sh odor.

Sh: blk, hgly carb, sh odor.

Ls: gry to drk gry, vry fn xln, dns & hrd, foss, xln incl, no vis por, NS.

Ls: AA.

Lost circulation @2230' @6:35PM. Got it back within 5 minutes. Drilled ahead with 50% returns.

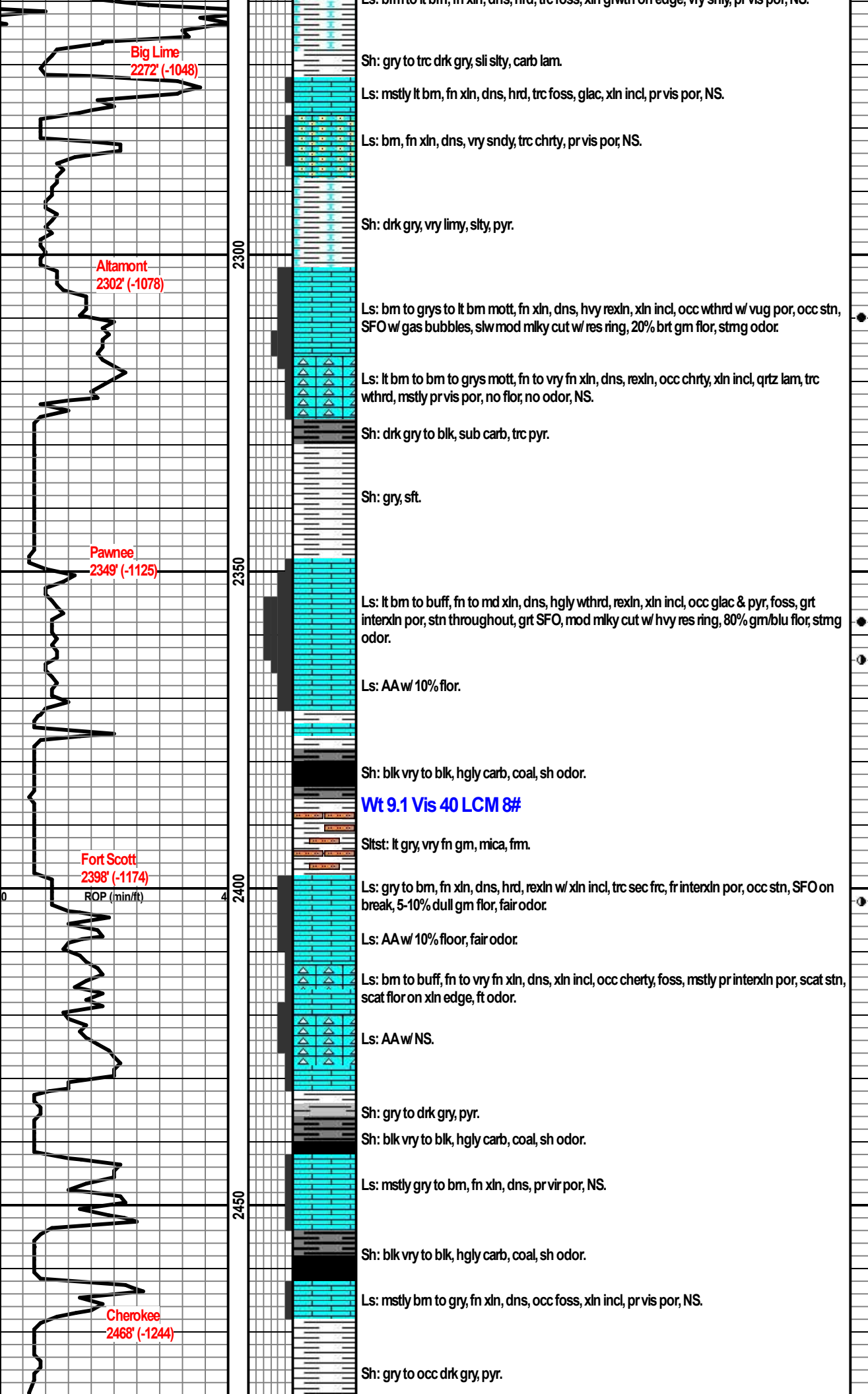
Sample full of shale following lost circ.

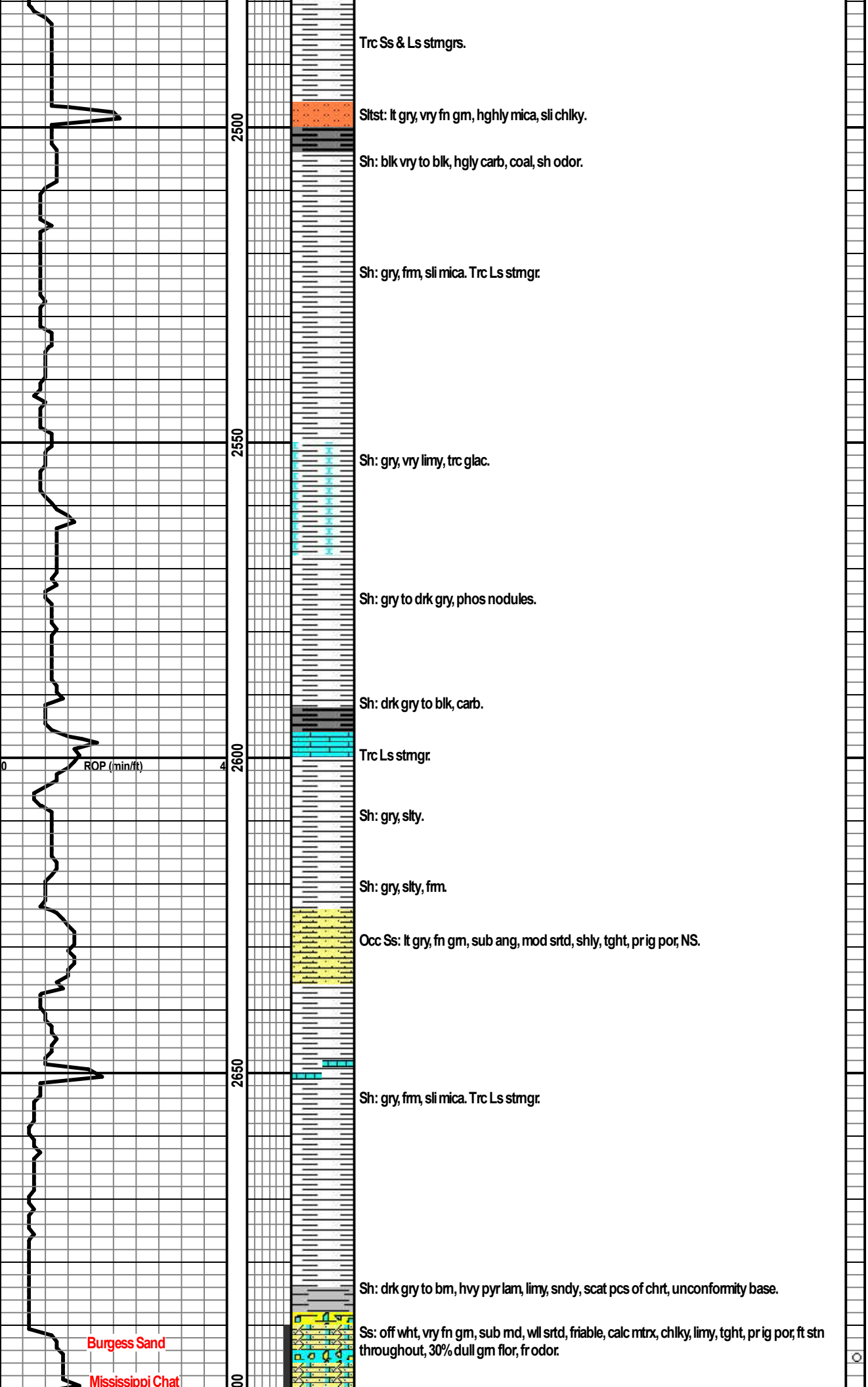
Ran out of fluid @2241'. Stopped drilling to mix 1 tank of mud. Got circ back and drilling ahead @7:35PM.

Sample full of shale following lost circ.

Ls: brn to lt brn, fn xln, dns, hrd, trc foss, xln grwth on edge, vry slty, pr vis por, NS

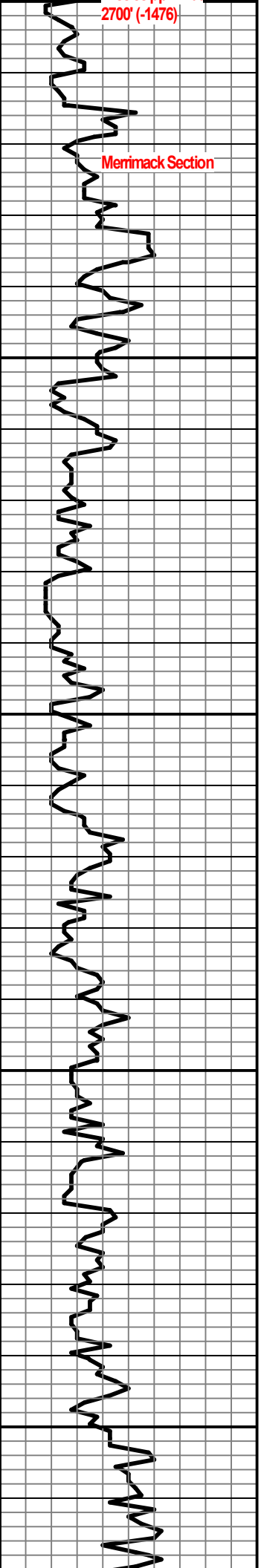
Lenapah
2214' (-990)


Big Lime
2272' (-1048)
Altamont
2302' (-1078)
Pawnee
2349' (-1125)
Fort Scott
2398' (-1174)
Cherokee
2468' (-1244)
0
ROP (min/ft)
4
2300
2350
2400
2450
Ls: bm to lt bm, fn xln, dns, hrd, trc foss, xln growth on edge, vry shly, pr vis por, NS.
Sh: gry to trc drk gry, sli slty, carb lam.
Ls: mstly lt bm, fn xln, dns, hrd, trc foss, glac, xln incl, pr vis por, NS.
Ls: bm, fn xln, dns, vry sndy, trc chrty, pr vis por, NS.
Sh: drk gry, vry limy, slty, pyr.
Ls: bm to grys to lt bm mott, fn xln, dns, hvy rexln, xln incl, occ wthrd w/ vug por, occ stn, SFO w/ gas bubbles, slw mod mlky cut w/ res ring, 20% brt gm flor, strng odor.
Ls: lt bm to bm to grys mott, fn to vry fn xln, dns, rexln, occ chrty, xln incl, qrtz lam, trc wthrd, mstly pr vis por, no flor, no odor, NS.
Sh: drk gry to blk, sub carb, trc pyr.
Sh: gry, sft.
Ls: lt bm to buff, fn to md xln, dns, hgly wthrd, rexln, xln incl, occ glac & pyr, foss, grt interxln por, stn throughout, grt SFO, mod mlky cut w/ hvy res ring, 80% gm/blu flor, strng odor.
Ls: AA w/ 10% flor.
Sh: blk vry to blk, hgly carb, coal, sh odor.
Wt 9.1 Vis 40 LCM 8#
Sltst: lt gry, vry fn gm, mica, frm.
Ls: gry to bm, fn xln, dns, hrd, rexln w/ xln incl, trc sec frc, fr interxln por, occ stn, SFO on break, 5-10% dull gm flor, fair odor.
Ls: AA w/ 10% floor, fair odor.
Ls: bm to buff, fn to vry fn xln, dns, xln incl, occ cherty, foss, mstly pr interxln por, scat stn, scat flor on xln edge, ft odor.
Ls: AA w/ NS.
Sh: gry to drk gry, pyr.
Sh: blk vry to blk, hgly carb, coal, sh odor.
Ls: mstly gry to bm, fn xln, dns, pr vir por, NS.
Sh: blk vry to blk, hgly carb, coal, sh odor.
Ls: mstly bm to gry, fn xln, dns, occ foss, xln incl, pr vis por, NS.
Sh: gry to occ drk gry, pyr.
Big Lime
2272' (-1048)
Altamont
2302' (-1078)
Good Show of Free Oil
Show of Gas Bubbles
Strong Odor
Pawnee
2349' (-1125)
Great Show of Free Oil
Strong Odor
Midnight Depth on 10/18/21: 2395'
Fort Scott
2398' (-1174)
Show of Free Oil-Break
Fair Odor
Cherokee
2468' (-1244)



Fair Odor

Mississippi Chat



2700

2750

2800

2850

2900

Cht: off wht to crm, lt brn to gry to occ brn, opaque, tripo, sndy, lam blk strks, mstly rewrkd & hghly wthtrd, sm hrd frsh wht cht, hvy calc/glac/phos/slic/pyr mnrls, grt tripo & PP por, occ vug por, stn throught por, grt SFO, show of gas bubbles, fst strmng cut w/ hvy res mg, up to 50% brght yllw to blue flor, strong odor.

Cht: AA w/ 50-60% brt gm flor, strng odor.

Cht: AA w/ hvy chrty dolo lime lam, 50% flor, strng odor.

Ls: tan to buff to crm, md xln, dns, wthrd, rexln, xln incl, chrty, sli dolo, glac, pyr, foss, grt interxln por, scat stn, fr SFO, gd cut w/ res ring, 40% gm/blu flor, fr odor.

Cht: gry to off wht, opaque, sm tripo, hvly rewrkd & wthrd, hvy calc/glac/phos mnrls, pyr, dead oil/asph, grt interxln por, stn throughout, gd SFO, gd strmng cut, 20-30% gm flor, fr odor.

Cht: off wht to buff, opaque, mstly frsh, hrd, occ sec frac, hvy pyr, pr vis por, mod stn on xln edge, gd SFO, 30% flor, fair odor.

Cht: AA. Shly, gry, sli slty.

Wt 9.3 Vis 44 LCM 8#

Cht: mstly off wht to brn, sm drk brn to blk occ, 50/50 wthrd/frsh, opaque, hvy calc/glac/phos mnrls in wthrd, rewrkd cht has gd interxln por, mod stn, SFO on break, 10-20% flor, fr odor.

Cht: AA. Ls: tan to buff, fn to md xln, dns, wthrd, rexln, xln incl, chrty, dolo, glac, pyr, foss, grt interxln por, scat stn, fr SFO, gd mlky cut w/ res ring, 20% gm/blu flor, fr odor.

Ls: AA. w/ mod dead oil/asph in xln edge, fr interxln por, 20% flor, ft odor.

Ls: crm to buff, fn xln, dns, wthrd, xln incl, vry chrty, glac, pyr, foss, fr interxln por, no stn no SFO, 5% full flor, vry ft odor.

Cht: wth to lt brn, mstly frsh to sm wthrd, hrd, opaque to transulcent, limy, pyr, fr interxln por, 5% flor, no odor.

Ls: buff to lt brn to brn, fn xln, rexln w/ xln incl, foss, vry chrty, glac, pyr, pr vis por, scat flor, no odor.

Cht: off wht to brn, sm drk brn to blk occ, 50/50 wthrd/frsh, opaque, hvy calc/glac/phos mnrls in wthrd, rewrkd cht has gd interxln por w/ scat flor.

Ls: lt brn to brn, md xln, dns, rexnl w/ xln incl, foss, vry chrty, glac, pyr, gd inxln por, vry scat flor, no odor.

Ls: lt brn to buff, md xln, dns, rexln w/ xln incl, vry chrty, glac, foss, occ vug por & interxln por, scat stn, SFO, 20-30% gm yllw flor, fr odor.

Ls: AA w/ NS.

Ls: off wht to lt brn, fn xln, dns, sli wthrd, chrty, pyr, fr vis por, NS.

Cht: off wht to lt brn to brn, mstly frsh, hrd, opaque, pyr, pr vis por, NS.

Ls: off wht to lt brn, fn xln, xln incl, dns, sli wthrd, vry chrty, pyr, fr vis por, NS.

Ls: AA. Cht: off wht to lt brn to brn, mstly frsh, hrd, opaque, pyr, pr vis por, NS.

2700' (-1476)
Great Show of Free Oil
Show of Gas Bubbles
Strong Odor

Good Show of Free Oil
Show of Gas Bubbles
Strong Odor

Good Show of Free Oil
Fair Odor

Good Show of Free Oil
Fair Odor

Show of Free Oil-Break
Fair Odor

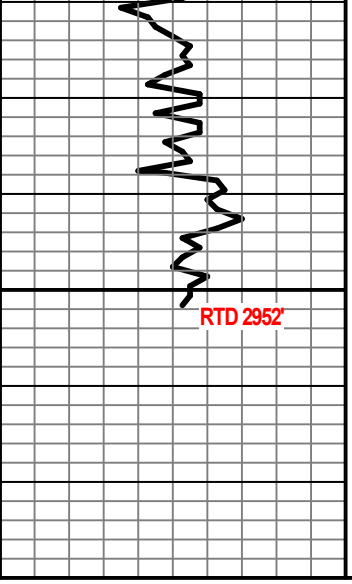
Good Show of Free Oil
Fair Odor

Good Show of Free Oil
Fair Odor

Very Ft Odor

Show of Free Oil-Break
Fair Odor

Noon Depth on 10/18/21: 2890'



2950

Cht: gry to lt brn to blue tnt, all frsh, hrd, opaque to transulcent, pr vis por, NS.

Ls: brn, vry fn xln, dns, hrd, sli arg, xln incl, chrty, pr vis por, NS.

Cht: AA.

RTD 2952 @ 2:30PM on 10/18/21

Circulated for 1.5 hr before short trip. Short tripped to 800' & back down & circulated for 1.5 hr before tripping out to log. Pulled tight @ 2369', 1944', & 1345'.

LTD 2950 @ 10:00PM on 10/18/21

RTD

2952' (-1728)

Survey @ 2952: 4 degree