

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

Spud Date: 10/15/21

Surface Coordinates: 3390' FSL, 3390' FWL

Region: Cowley County, KS

Drilling Completed: 10/18/21

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




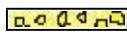






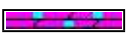



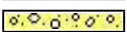




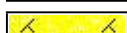

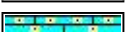


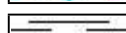
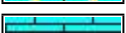
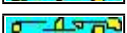


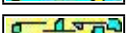


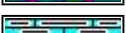
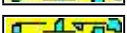

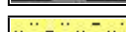
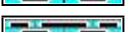
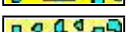




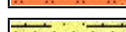

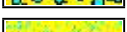
COMMENTS

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**






















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	1349' (-1125)	1948' (-1124)
Fort Scott	1398' (-1174)	1398' (-1174)
Cherokee	2468' (-1244)	2464' (-1140)
Mississippi Chat	2700' (-1476)	2696' (-1472)

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
-  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 tint, fine grain, moderately 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 tint, fine to occasional coarse grain, moderately 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 tint, coarse to fine grain, angular, moderately 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 recrystallization, crystalline inclusions, occasionally weathered with vuggy 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 recrystallization, 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 Scott 2398' (-1174)

2398'-2410'

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

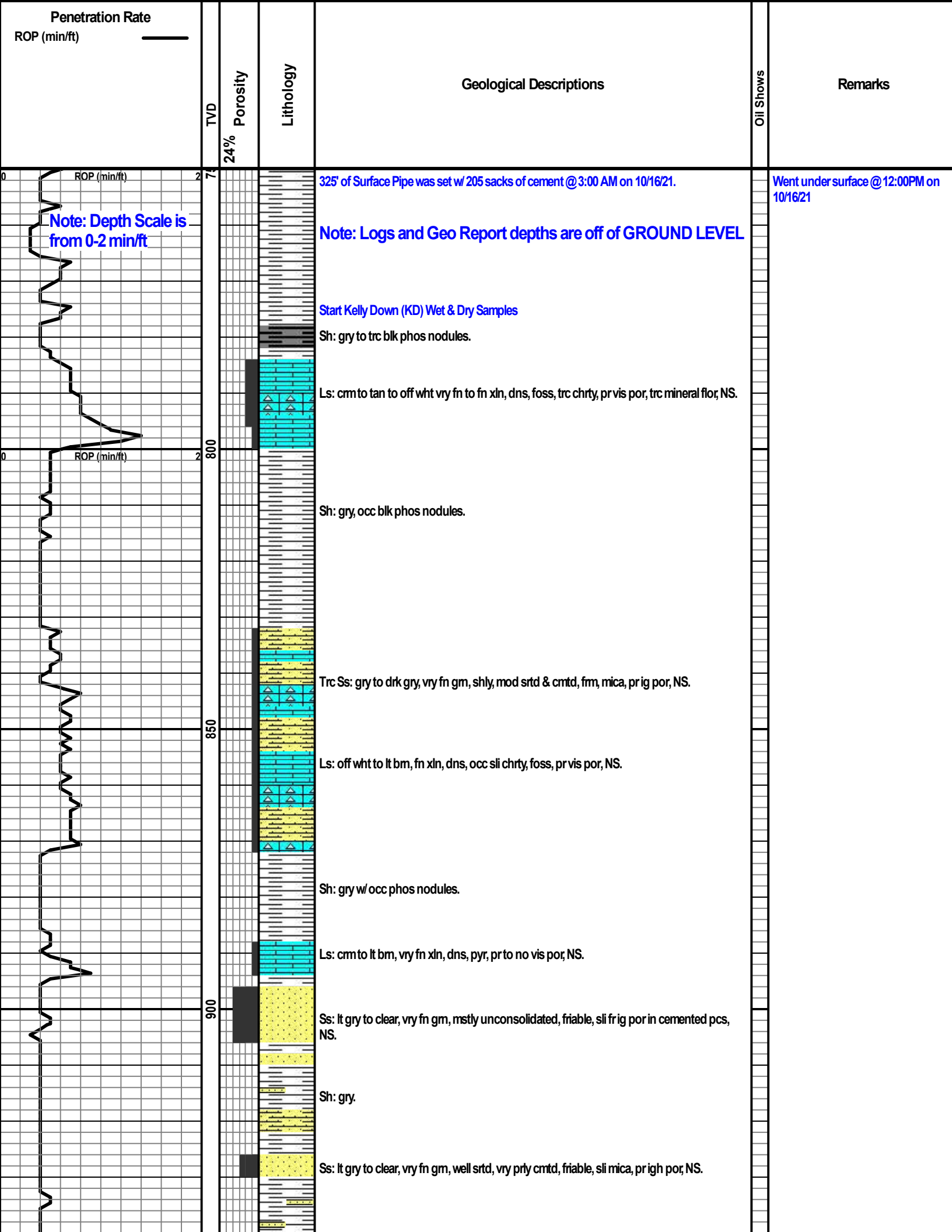
Mississippi Chat 2700' (-1476)

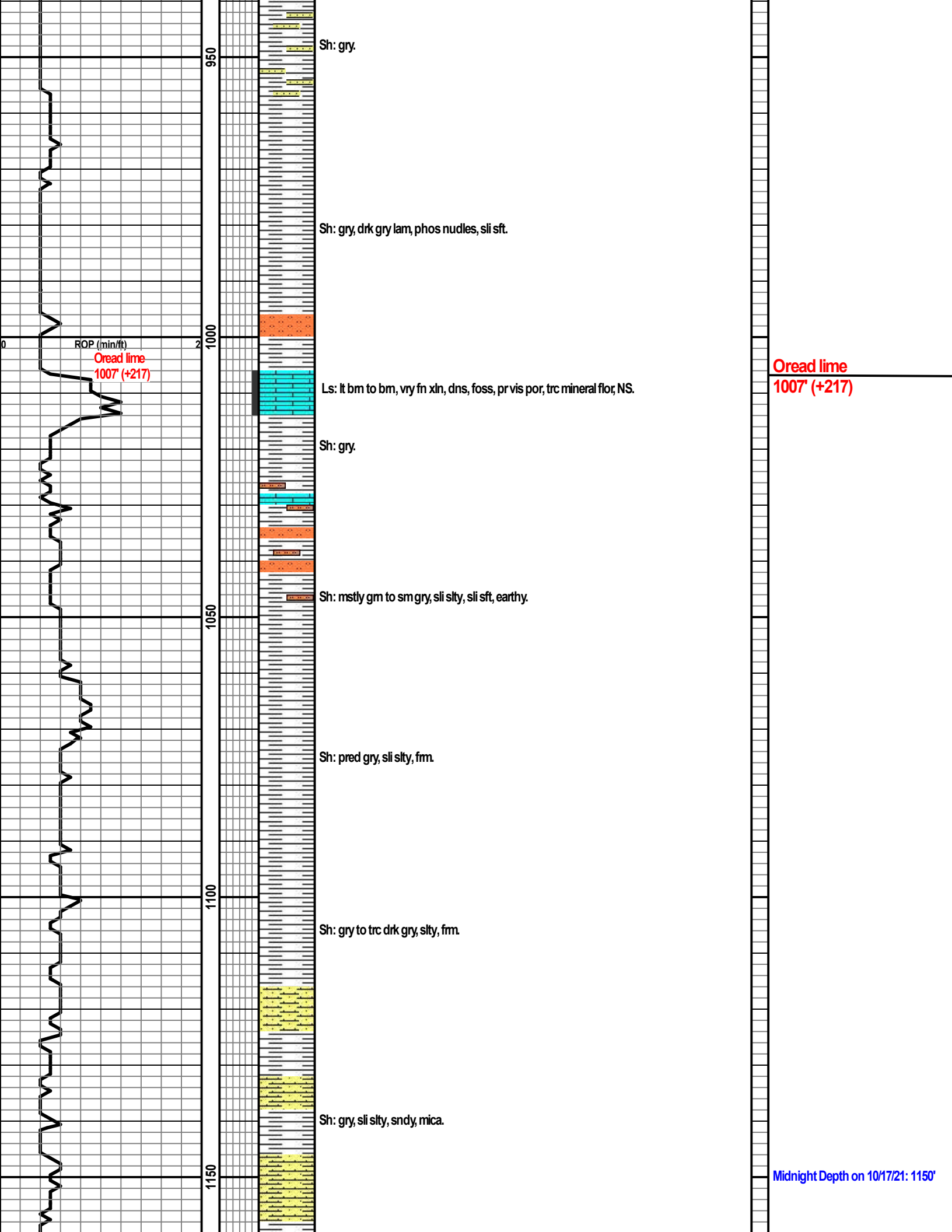
2700'-2715'

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 fluorescence, strong odor.

2715'-2850'

Merrimack Cherty Limestone - off white to cream to various browns mott to occ gry, fine to medium crystalline, heavy recrystallization 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 fluorescence, strong odor.

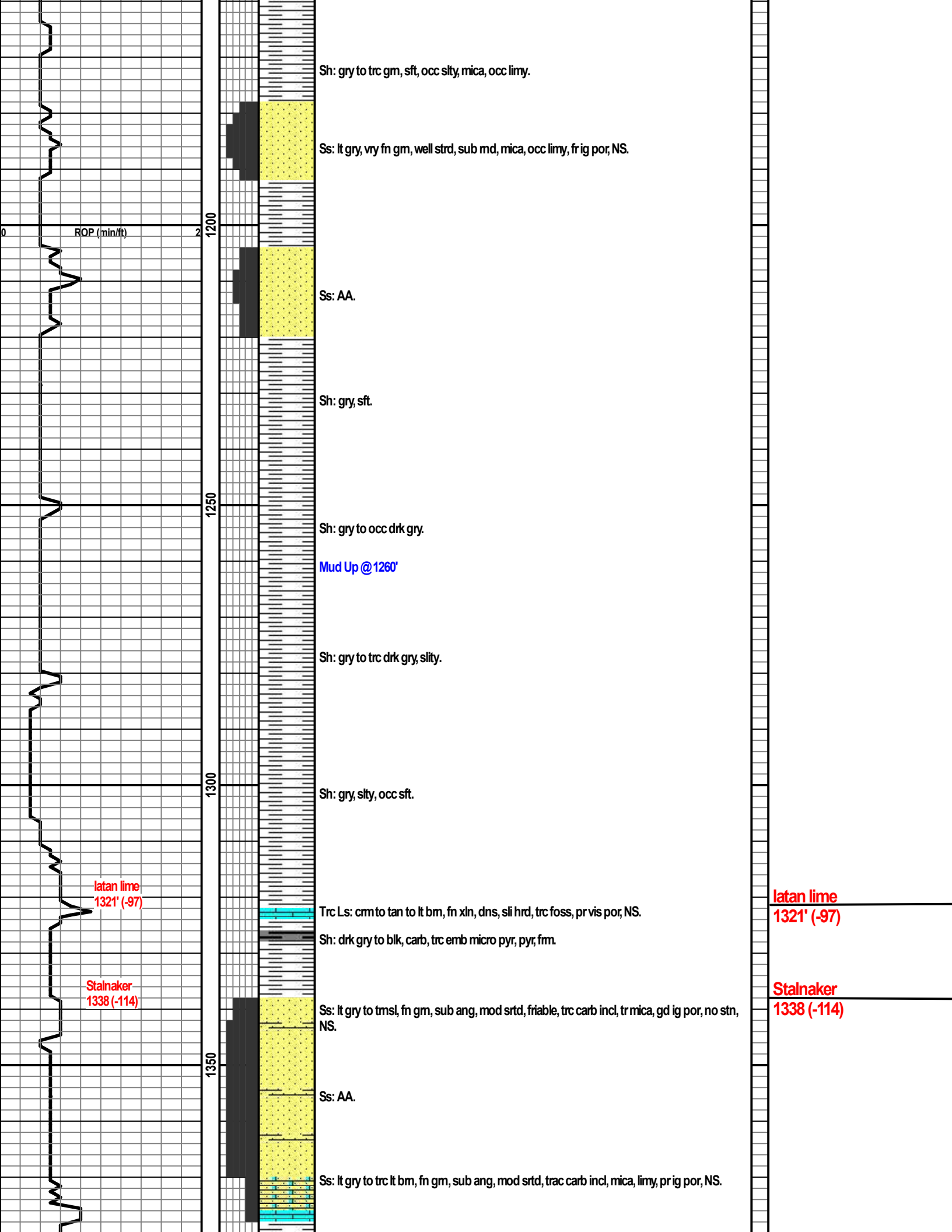


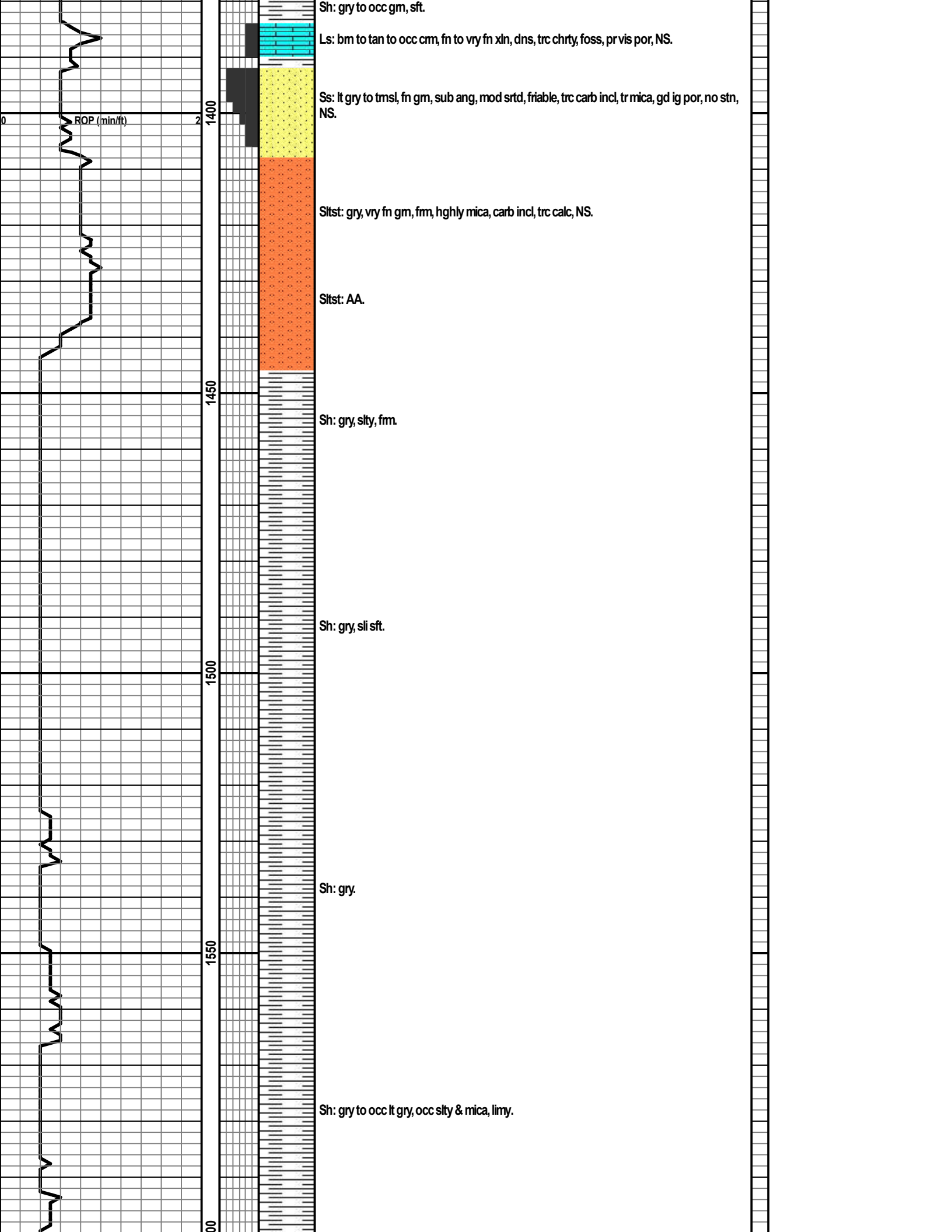


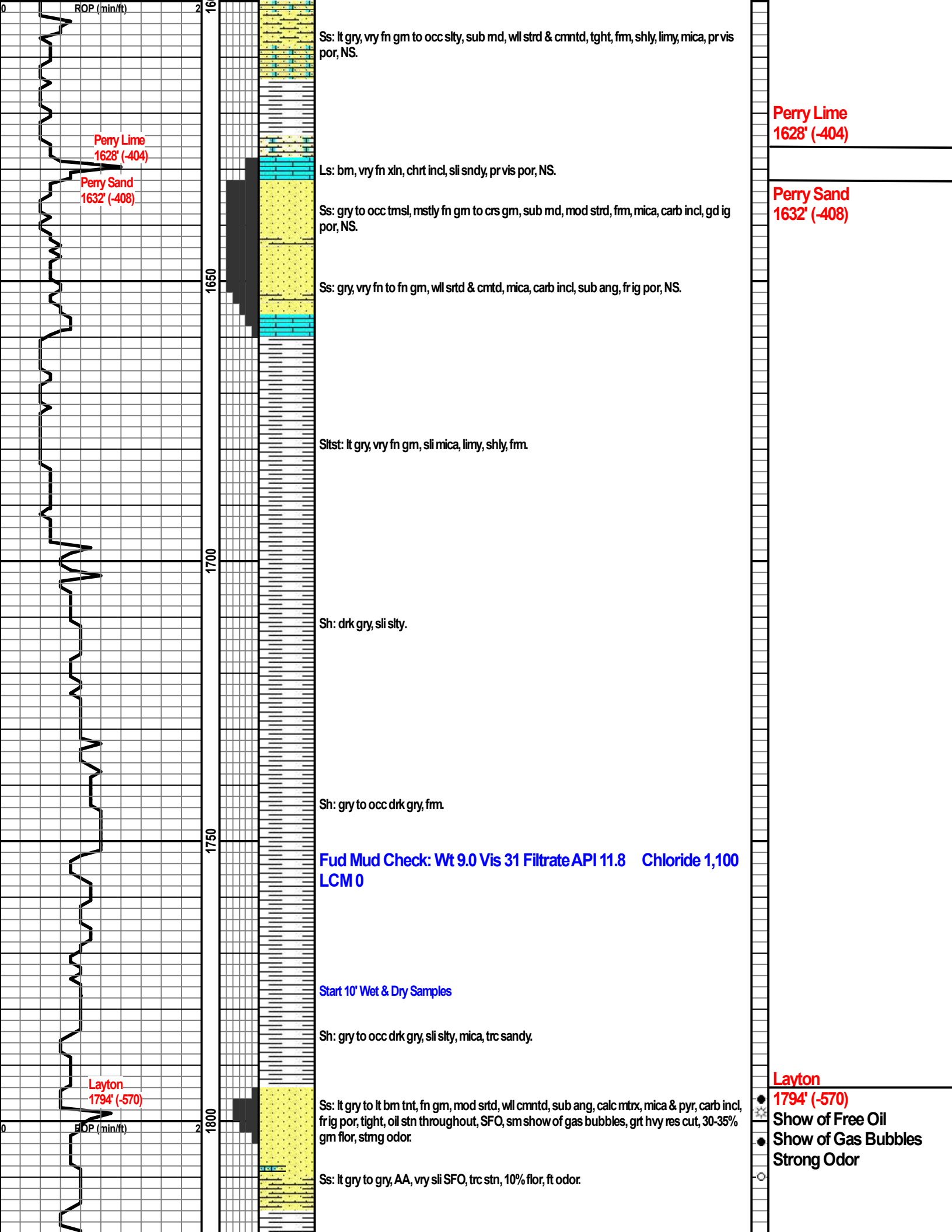
ROP (min/ft)
Oread lime
1007' (+217)

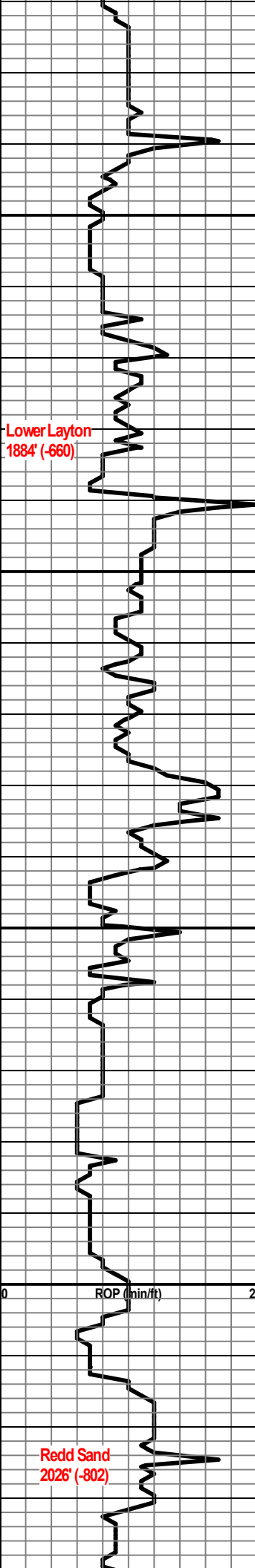
Oread lime
1007' (+217)

Midnight Depth on 10/17/21: 1150'

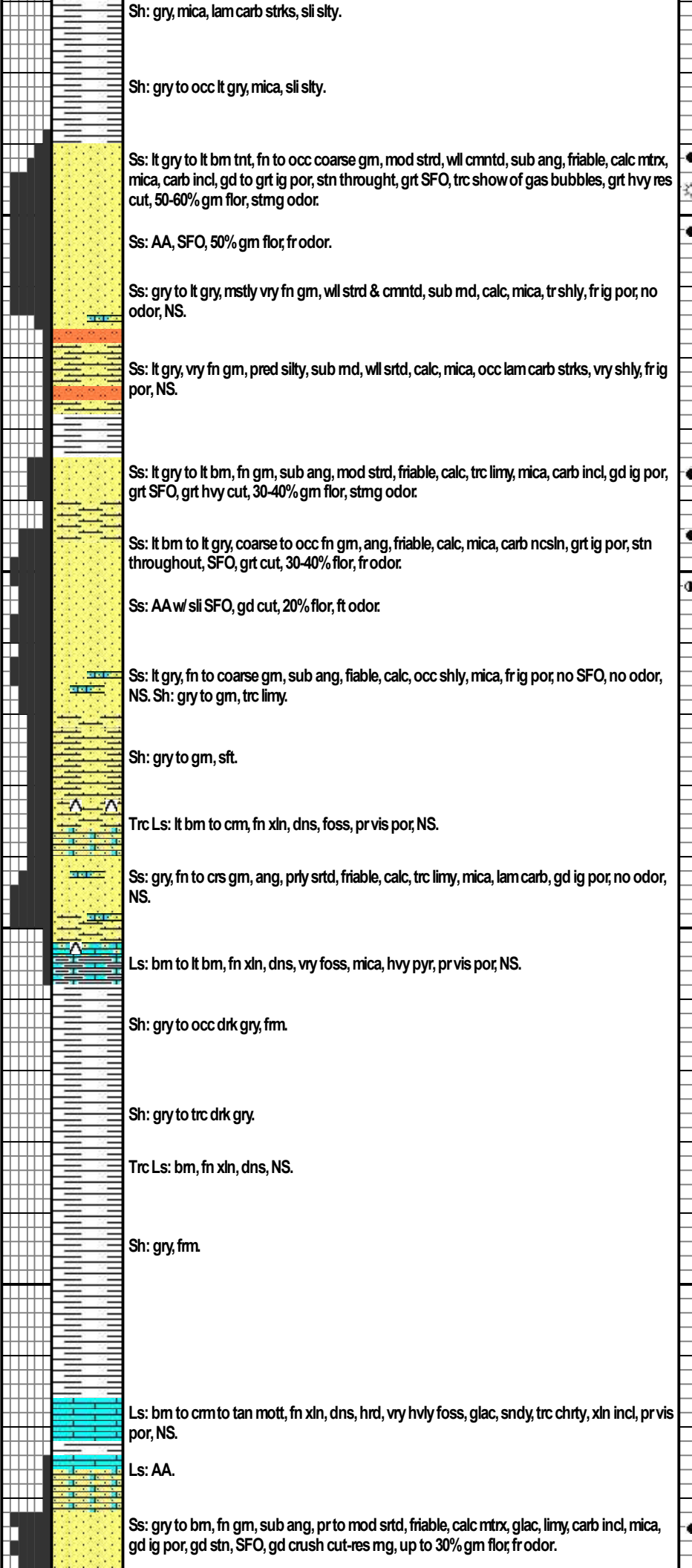








1850
1900
1950
2000



Great Show of Free Oil
Show of Gas Bubbles
Strong Odor

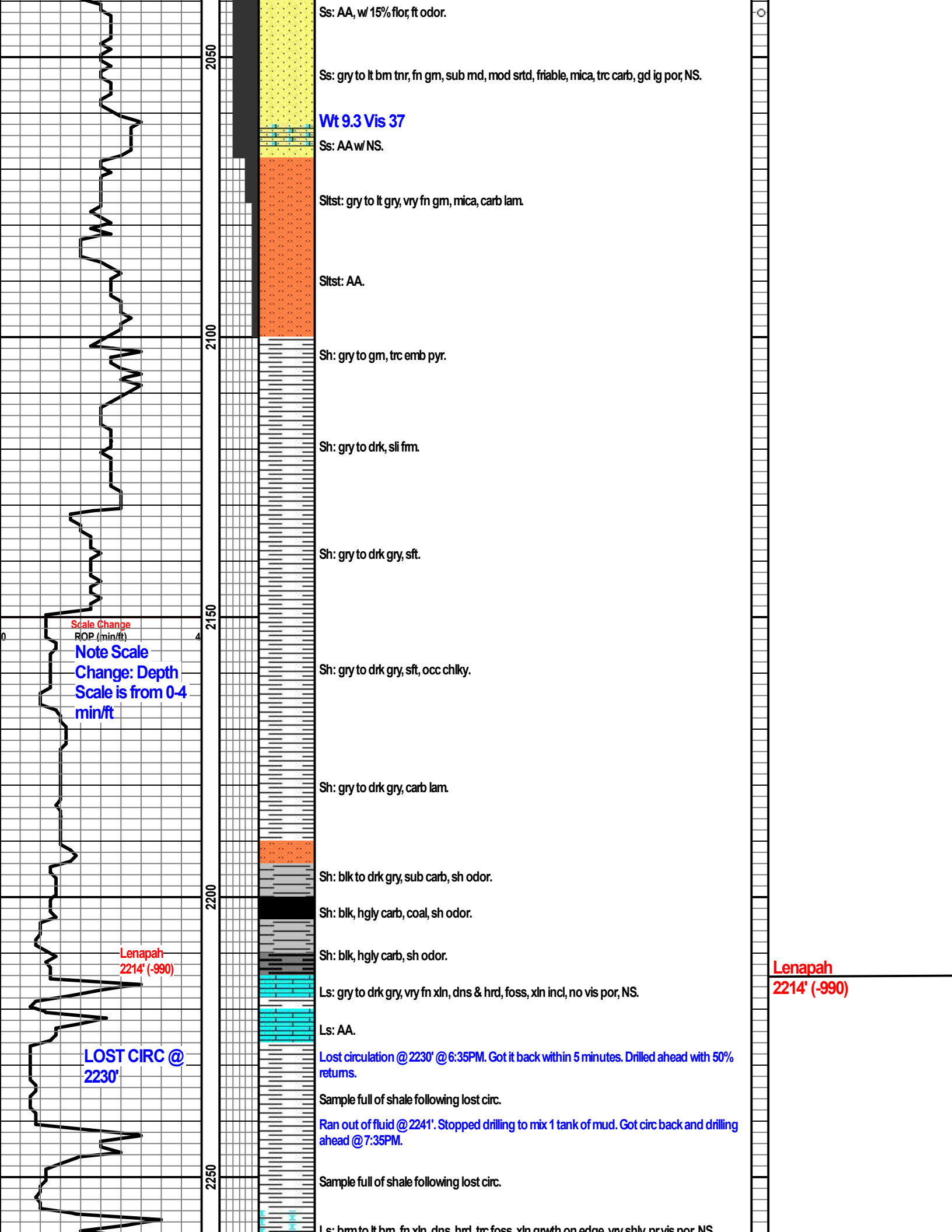
Lower Layton
1884' (-660)
Great Show of Free Oil
Strong Odor

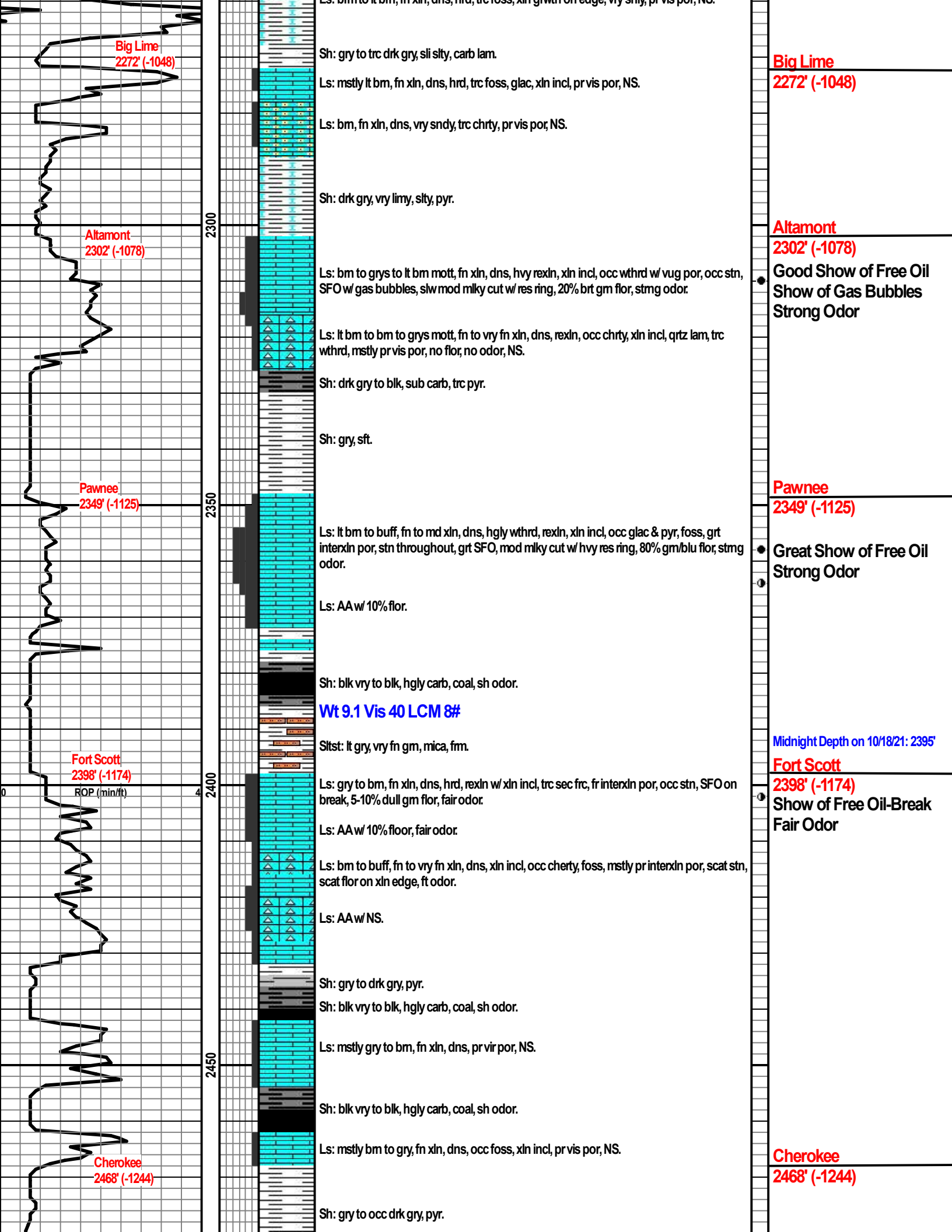
Noon Depth on 10/17/21: 1935'

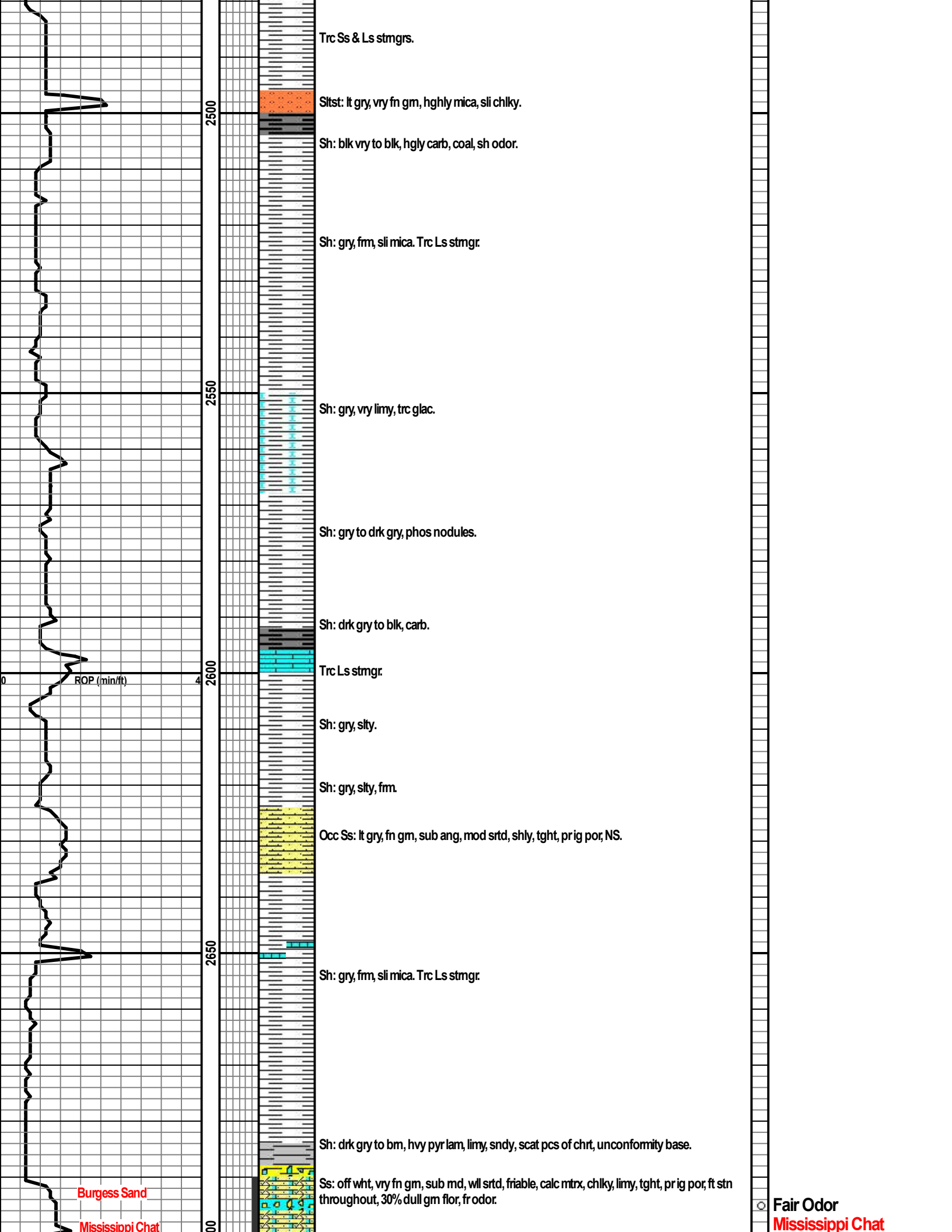
Redd Sand
2026' (-802)
Good Show of Free Oil
Fair Odor

Lower Layton
1884' (-660)

Redd Sand
2026' (-802)







2500

Trc Ss & Ls stmgrs.

Slst: lt gry, vry fn gm, hghly mica, sli chlky.

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

Sh: gry, frm, sli mica. Trc Ls stmgr.

2550

Sh: gry, vry limy, trc glac.

Sh: gry to drk gry, phos nodules.

Sh: drk gry to blk, carb.

2600

Trc Ls stmgr.

Sh: gry, slty.

Sh: gry, slty, frm.

Occ Ss: lt gry, fn gm, sub ang, mod srted, shly, tgnt, pr ig por, NS.

2650

Sh: gry, frm, sli mica. Trc Ls stmgr.

Sh: drk gry to bm, hvy pyr lam, limy, sndy, scat pcs of chrt, unconformity base.

00

Ss: off wht, vry fn gm, sub md, wl srted, friable, calc mtrx, chlky, limy, tgnt, pr ig por, ft strn throughout, 30% dull gm flr, fr odor.

Burgess Sand

Mississippi Chat

○ Fair Odor
Mississippi Chat

ROP (min/ft)

0

4

2700' (-1476)

Merimack Section

2700
2750
2800
2850
2900



Cht: off wht to cm, lt bm to gry to occ bm, opaque, tripo, sndy, lam blk strks, mstly rewrkd & hgily wthrd, 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 strng cut w/ hvy res mg, up to 50% brght yllw to blue flr, strong odor.

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

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

Ls: tan to buff to cm, 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 flr, fr odor.

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

Cht: AA. Shly, gry, sli sly.

Wt 9.3 Vis 44 LCM 8#

Cht: mstly off wht to bm, sm drk bm 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% flr, 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 milky cut w/ res ring, 20% gm/blu flr, fr odor.

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

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

Cht: wth to lt bm, mstly frsh to sm wthrd, hrd, opaque to translucent, limy, pyr, fr interxln por, 5% flr; no odor.

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

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

Ls: lt bm to bm, md xln, dns, rexln w/ xln incl, foss, vry chrty, glac, pyr, gd inxln por; vry scat flr, no odor.

Ls: lt bm 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 flr; fr odor.

Ls: AA w NS.

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

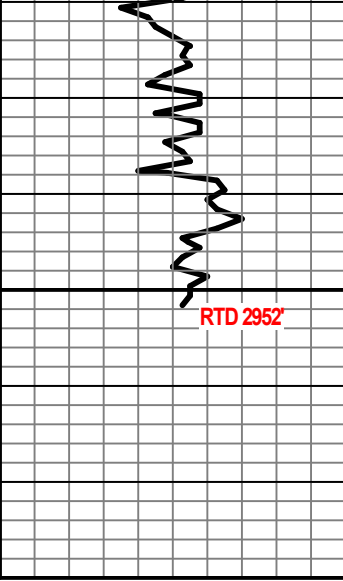
Cht: off wht to lt bm to bm, mstly frsh, hrd, opaque, pyr, pr vis por; NS.

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

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

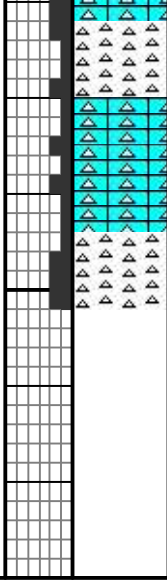
- Great Show of Free Oil
- ☼ Show of Gas Bubbles
- Strong Odor
- Good Show of Free Oil
- ☼ Show of Gas Bubbles
- Strong Odor
- Good Show of Free Oil
- Fair Odor
- Good Show of Free Oil
- Fair Odor
- Show of Free Oil-Break
- Fair Odor
- Good Show of Free Oil
- Fair Odor
- Good Show of Free Oil
- Fair Odor
- Very Ft Odor
- Show of Free Oil-Break
- Fair Odor

Noon Depth on 10/18/21: 2890'



RTD 2952'

2950



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

Ls: bm, 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