

LOCATION AND LEGALS DATA

WellSight Systems

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

Well Name: Kempton A 3
API: 15-049-22626
Location: NW SW SE S5-T31S-R10E
License Number: 31119
Spud Date: 3/19/2022
Surface Coordinates: 1174' FSL & 1981' FEL
Region: Elk County, KS
Drilling Completed: 3/23/2022

Bottom Hole
Coordinates:
Ground Elevation (ft): 1205' K.B. Elevation (ft): 1214'
Logged Interval (ft): Surface To: 2572' Total Depth (ft): 2739'
Formation: Mississippi
Type of Drilling Fluid: Chemical

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

OPERATOR

Company: Lone Wolf Oil & Gas Co. LLC
Address: PO BOX 241
Moline, KS 67353

GEOLOGIST

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

CONTRACTOR

Drilling Rig: C&G Drilling Rig 2
Drilling FLuids: Fud Mud
Open Hole Logs: Osage Wireline

Sample Descriptions

Mississippi 2221' (-1007)
2225'-2245'

Merrimack Limestone - off white to cream to various browns mott to occ gry, fine to medium crystalline, heavy recrystallixation, highly weathered, very chalky, very cherty with blue to gray fresh chert, secondary fractures, dolomitic, sucrosic, sandy texture, carb & silica inclusions, great intercrystalline porosity, live oil stain throughout, great show of free oil with gas bubbles, fast streaming cut with heavy residual ring, up to 50% yellow green flouresence, very strong rich odor.

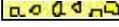
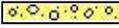
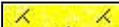
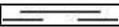
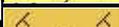
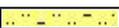
COMMENTS

5 1/2" Casing was ran and cemented to surface for use of disposal well

Formation**Sample Tops****Log Tops**

Lansing	1078' (+136)	1074' (+132)
Bonner Springs	1164' (+50)	1166' (+48)
Iola	1393' (-179)	1388' (-174)
Layton Sd	1421' (-207)	1417' (-203)
Kansas City	1550' (-336)	1545' (-331)
B/ Kansas City	1670' (-456)	1665' (-451)
Lenapah	1712' (-498)	1708' (-494)
Altamont	1770' (-556)	1764' (-550)
Pawnee	1860' (-646)	1856' (-642)
Fort Scott	1912' (-698)	1908' (-694)
Cherokee	1948' (-734)	1942' (-728)
Mississippi	2221' (-1007)	2218' (-1004)
Kinderhook	2484' (-1270)	2480' (-1266)
Arbuckle	2535' (-1321)	2532' (-1318)

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

POROSITY

- Earthy
- Fenest
- Fracture
- Inter
- Moldic
- Organic
- Pinpoint
- Vuggy

LITHOLOGY

- Anhydrite
- Arkose
- Ark_shale
- Granite
- Coal
- Limy_sh
- Shale
- Hot_shale
- Hot_shale_ii
- Siltstone
- Siltstone_ii
- Shaly_ss
- Shaly_ss_ii
- Sandstone
- Shaly_limy_ss
- Washy_limy_ss
- Limy_ss
- Sdy_ls
- Limestone
- Dolo_ls
- Shaly_ls
- Carb_shaly_ls

- Cherty_Is
- Chert
- Cherty_dolo
- Dolomite
- Limy_dolo
- Conglomerate
- Carb_wash
- Sdy_carb_wash
- Shaly_sdy_carb_wash
- Shaly_limy_qtz_wash
- Shaly_limy_qtz_wash_ii
- Limy_qtz_wash
- Limy_qtz_wash_ii
- Limy_qtz_wash_iii
- Qtz_wash
- Qtz_wash_ii
- Argil_qtz_wash
- Ark_qtz_wash
- Sdy_gw
- Shaly_gw
- Gw_a
- Gw_b
- Gw_c
- Gw_d

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

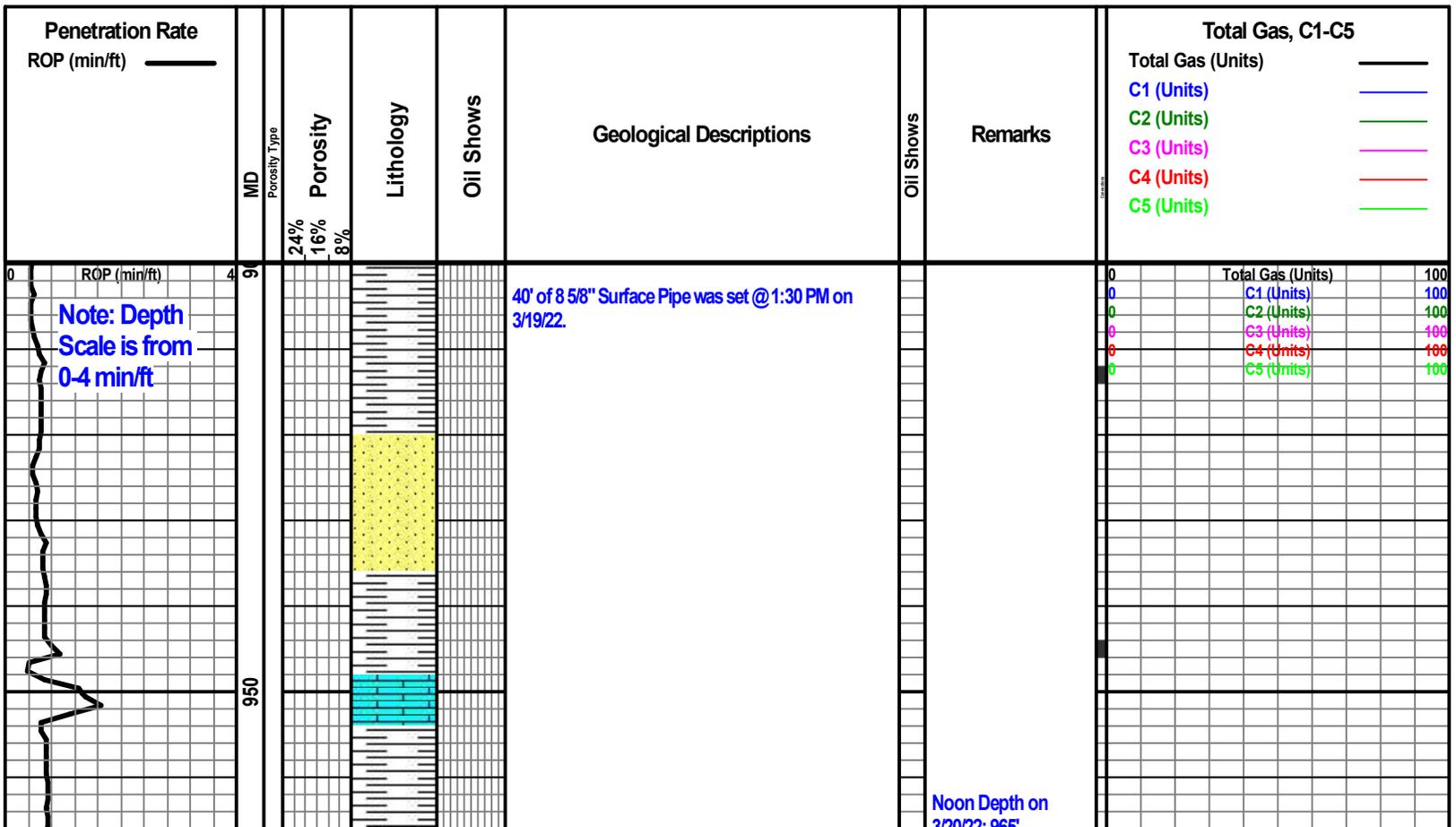
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff

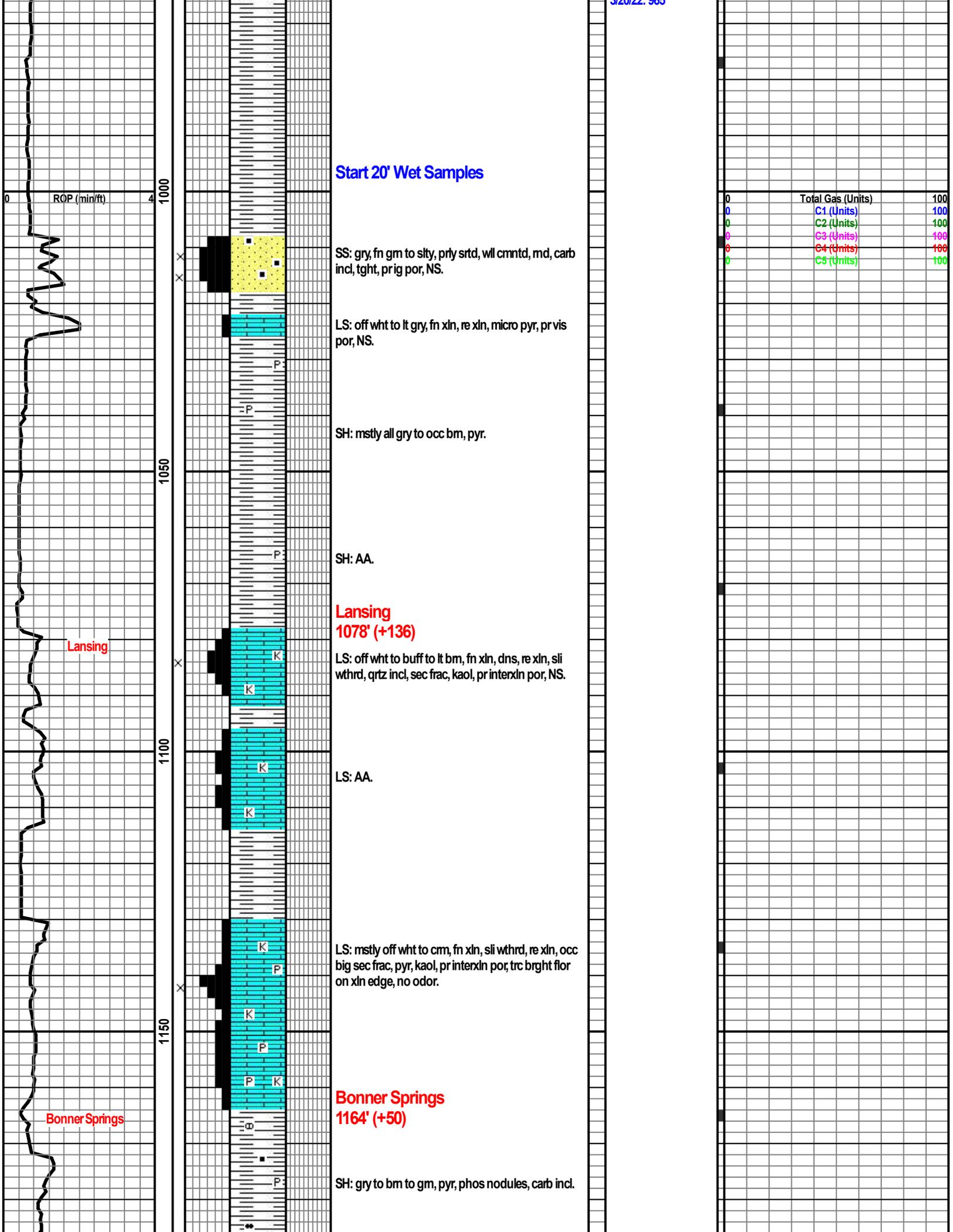
TEXTURE

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

OIL SHOW

- Gas show
- Even
- Spotted
- Ques
- Dead





Start 20' Wet Samples

ROP (min/ft)

1000

Total Gas (Units)

100

SS: gry, fn gm to slty, prly srted, wll cmntd, md, carb incl, tght, prig por, NS.

LS: off wht to lt gry, fn xln, re xln, micro pyr, pr vis por, NS.

SH: mstly all gry to occ bm, pyr.

SH: AA.

Lansing 1078' (+136)

LS: off wht to buff to lt bm, fn xln, dns, re xln, sli wthrd, qrtz incl, sec frac, kaol, pr interxln por, NS.

LS: AA.

LS: mstly off wht to cm, fn xln, sli wthrd, re xln, occ big sec frac, pyr, kaol, pr interxln por, trc brght flor on xln edge, no odor.

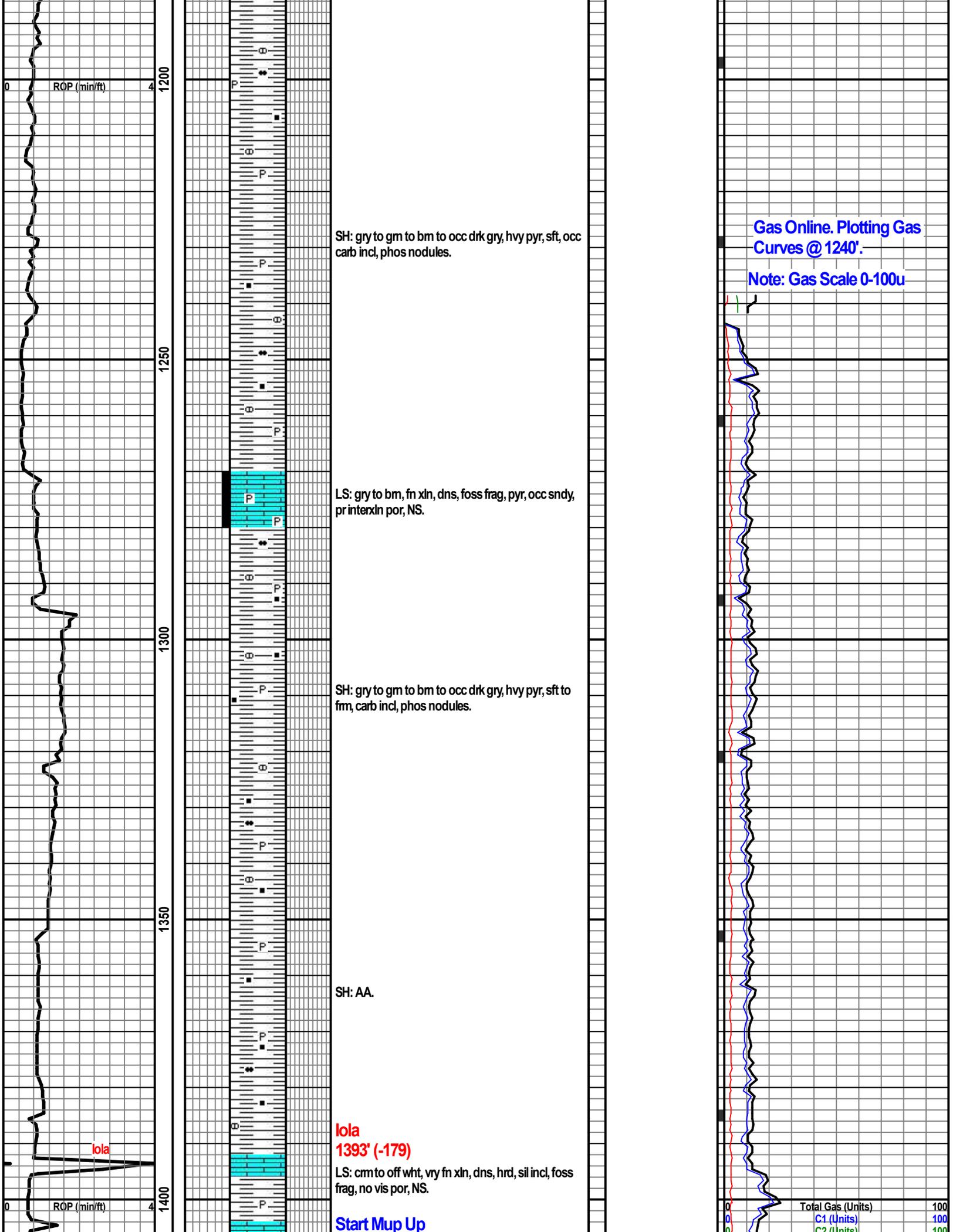
Bonner Springs 1164' (+50)

SH: gry to bm to gm, pyr, phos nodules, carb incl.

Lansing

Bonner Springs

0	C1 (Units)	100
0	C2 (Units)	100
0	C3 (Units)	100
0	C4 (Units)	100
0	C5 (Units)	100



ROP (min/ft)

1200

SH: gry to gm to bm to occ drk gry, hvy pyr, sft, occ carb incl, phos nodules.

Gas Online. Plotting Gas Curves @ 1240'.

Note: Gas Scale 0-100u

1250

LS: gry to bm, fn xln, dns, foss frag, pyr, occ sndy, pr interxln por, NS.

1300

SH: gry to gm to bm to occ drk gry, hvy pyr, sft to fm, carb incl, phos nodules.

1350

SH: AA.

lola

lola
1393' (-179)

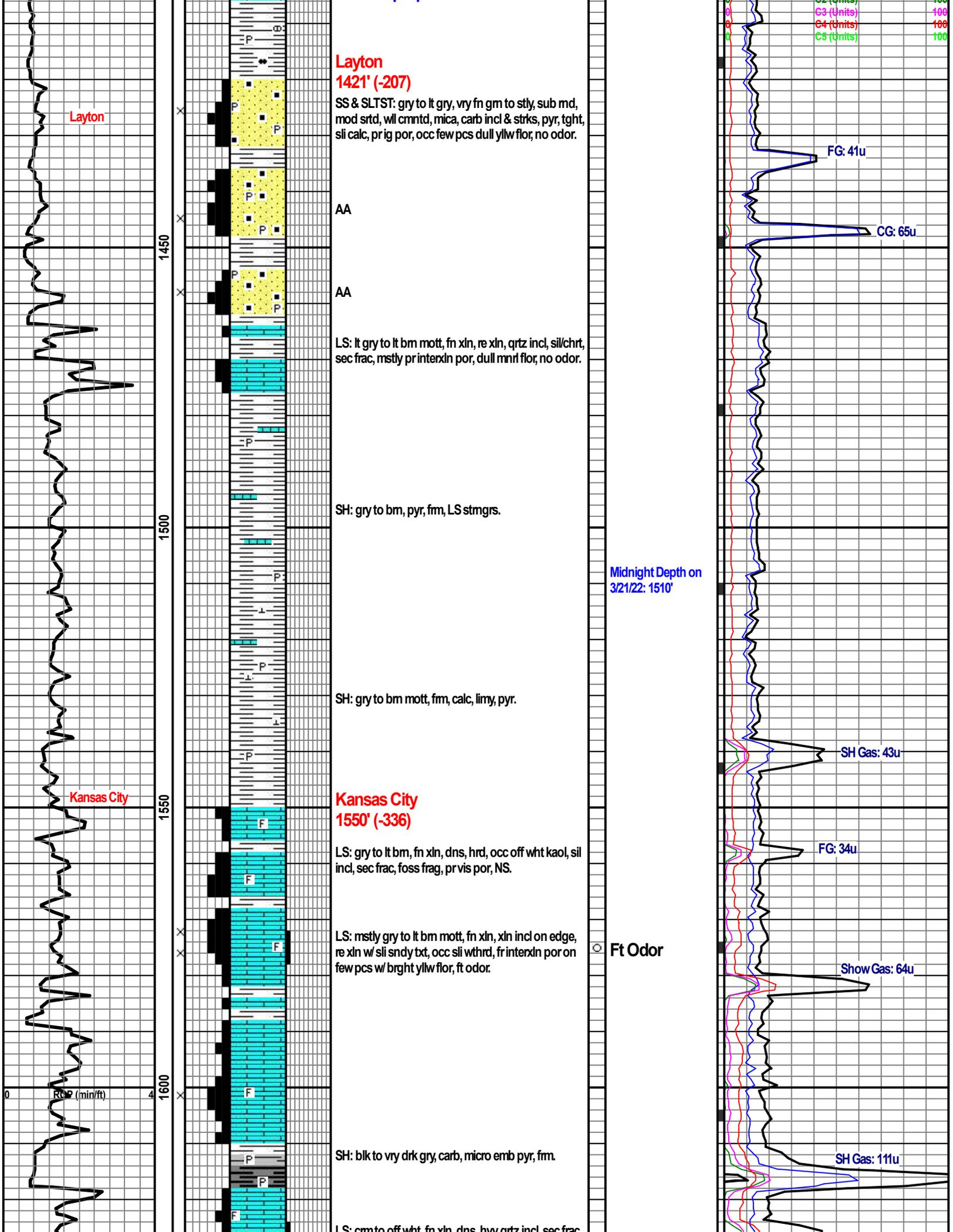
LS: cm to off wht, vry fn xln, dns, hrd, sil incl, foss frag, no vis por, NS.

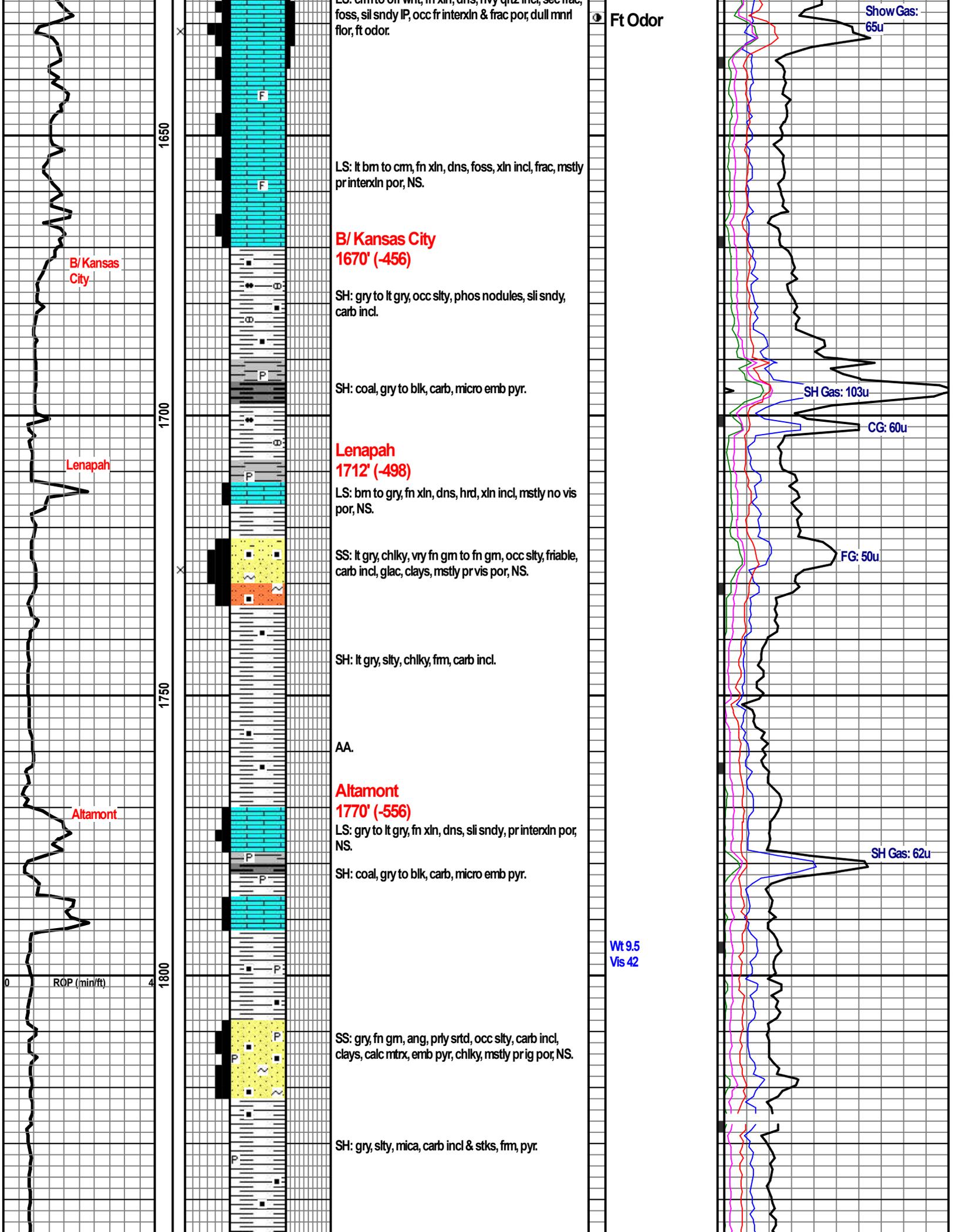
Start Mup Up

ROP (min/ft)

1400

Total Gas (Units)	100
C1 (Units)	100
C2 (Units)	100





LS: cm to 3/4" wht, fn xln, dns, rvy qtz inc, sec mac, foss, sli sndy IP, occ fr interxln & frac por, dull mnrl flr, ft odor.

Ft Odor

Show Gas: 65u

1650

LS: lt bm to cm, fn xln, dns, foss, xln incl, frac, mstly pr interxln por, NS.

**B/Kansas City
1670' (-456)**

SH: gry to lt gry, occ stly, phos nodules, sli sndy, carb incl.

SH: coal, gry to blk, carb, micro emb pyr.

SH Gas: 103u

CG: 60u

1700

**Lenapah
1712' (-498)**
LS: bm to gry, fn xln, dns, hrd, xln incl, mstly no vis por, NS.

SS: lt gry, chlky, vry fn gm to fn gm, occ stly, friable, carb incl, glac, clays, mstly pr vis por, NS.

SH: lt gry, stly, chlky, fm, carb incl.

FG: 50u

1750

AA.

**Altamont
1770' (-556)**

LS: gry to lt gry, fn xln, dns, sli sndy, pr interxln por, NS.

SH: coal, gry to blk, carb, micro emb pyr.

SH Gas: 62u

Wt 9.5
Vis 42

1800

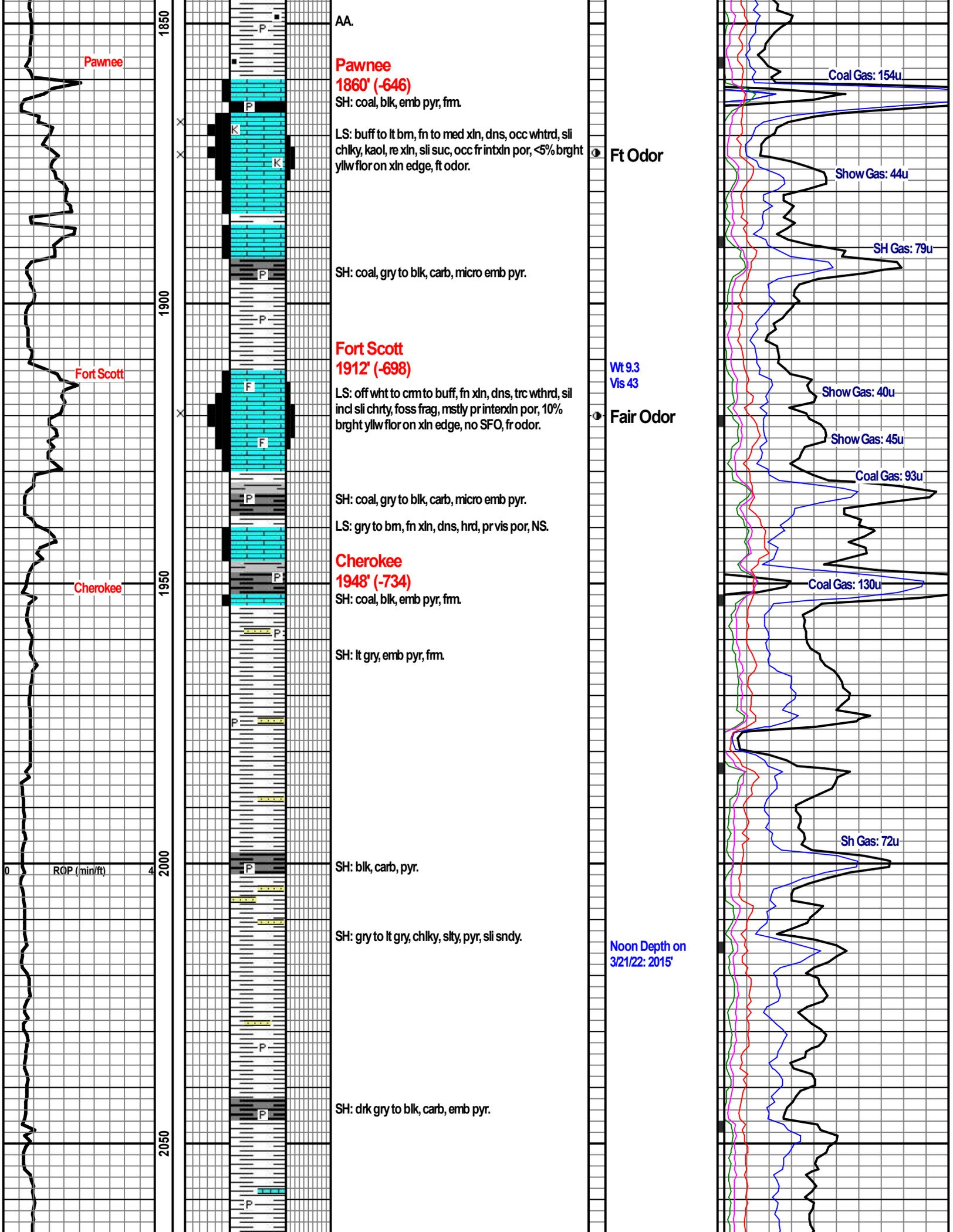
SS: gry, fn gm, ang, prly srted, occ stly, carb incl, clays, calc mtrx, emb pyr, chlky, mstly pr ig por, NS.

SH: gry, stly, mica, carb incl & stks, fm, pyr.

ROP (min/ft)

0

4



SH: gry, mica, pyr, slty, limy, LS stmgrs.

2100

Start 10' Wet Samples

SH: mstly gry, mica, slty, pyr, phos nodules, occ LS stmgrs.

2150

SH: bm to gm mott, gry, slty, phos nodules, pyr, slty, mica, SS stmgrs.

Wt 9.1
Vis 41
LCM 3

2200

SH: drk gry to occ blk, slty, pyr, sli slty.

Mississippi
2221' (-1007)

LS: gry to off wht mott, bm IP, med xln, re xln, hghly wthrd, vry chlky, chrty w/ occ blue/gry frsh cht, sec frac, dolo, suc, sndy txt, carb incl, sil incl, calc incl, grt interxln por, live oil stn throughout, occ dead asphalt stn, grt SFO, SBG, fst stmng crush cut w/ hvy res ring, up to 50% gm/ylw flor, vry stmng oil & gassy odor.

● Great SFO
● SGB
● Strong Odor

2250

LS: mstly gry to off wht to bm mott, med xln, hghly wthrd, chlky, chrty, dolo, suc, sndy txt, sec frac, carb & sil incl, grt interxln por, live oil stn, dead asphalt stn, fr SFO, mod fst stmng cut w/ hvy res ringm 30% brght gm/ylw flor, fr to mod gd odor.

○ Good SFO
○ Strong Odor

LS: gry to lt bm to sm off wht, fn xln, dns, wthrd, sli chlky, chrty w/ abndnt frsh cht, sec frac, sli dolo, suc, frty gd interxln por, scat brght stn on xln edge, ft odor.

○ Fair Odor
○ Fair SFO

○ Ft Odor

Mississippi

CG

CG

C1: 14u
C2: 11u
C3: 6u
C4: 19u
C5: 0u

Show Gas: 45u

Show Gas: 53u

Show Gas 50u

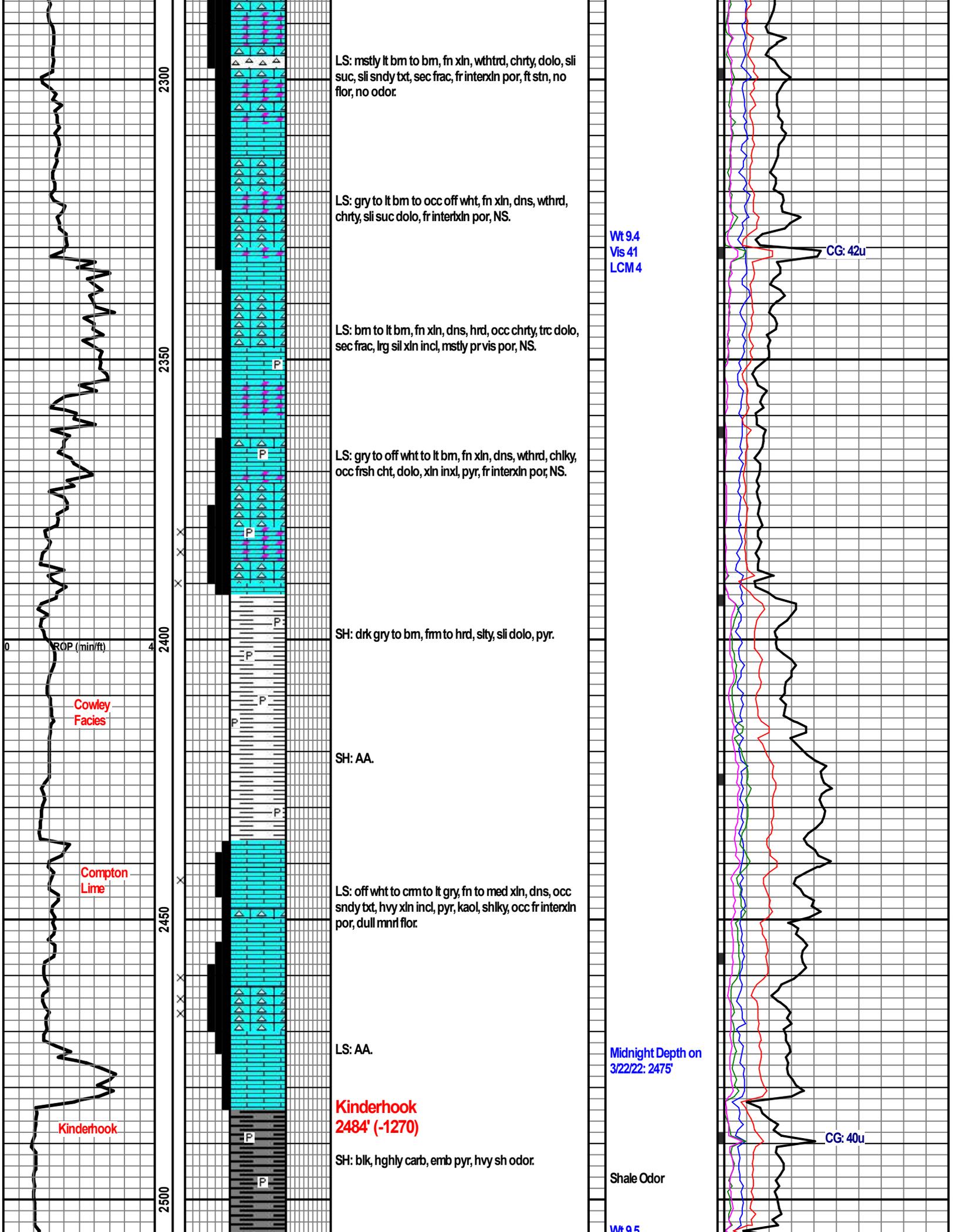
Show Gas: 52u

C4

C4

C4

C4



2300
2350
2400
2450
2500

LS: mstly lt bm to bm, fn xln, wthrd, chrty, dolo, sli suc, sli sndy txt, sec frac, fr interxln por, ft stn, no flor, no odor.

LS: gry to lt bm to occ off wht, fn xln, dns, wthrd, chrty, sli suc dolo, fr interxln por, NS.

LS: bm to lt bm, fn xln, dns, hrd, occ chrty, trc dolo, sec frac, lrg sil xln incl, mstly pr vis por, NS.

LS: gry to off wht to lt bm, fn xln, dns, wthrd, chlky, occ frsh cht, dolo, xln inxl, pyr, fr interxln por, NS.

SH: drk gry to bm, fm to hrd, stly, sli dolo, pyr.

SH: AA.

LS: off wht to cm to lt gry, fn to med xln, dns, occ sndy txt, hvy xln incl, pyr, kaol, shlky, occ fr interxln por, dull mnrl flor.

LS: AA.

Kinderhook
2484' (-1270)

SH: blk, hghly carb, emb pyr, hvy sh odor.

Wt 9.4
Vis 41
LCM 4

CG: 42u

Midnight Depth on
3/22/22: 2475'

CG: 40u

Shale Odor

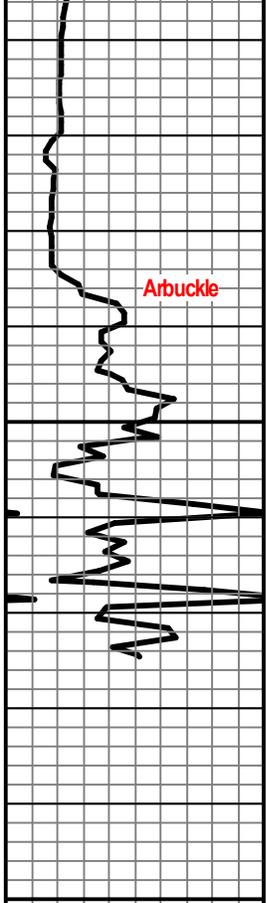
Wt 9.5

ROP (min/ft)

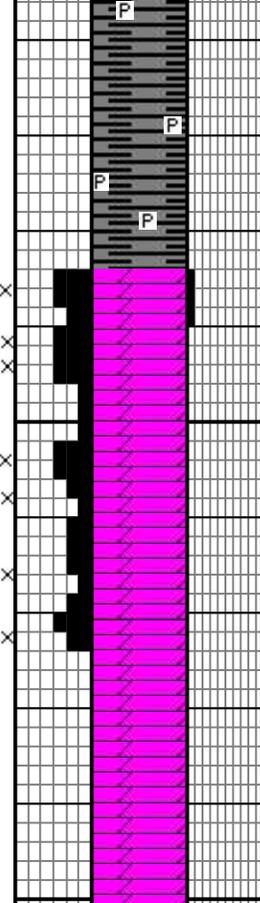
Cowley
Facies

Compton
Lime

Kinderhook



2550
2600
2650
2700



SH: blk, hghly carb, emb pyr, hvy sh odor.

Arbuckle
2535' (-1321)

DOL: crm to clr transp to lt gry, med xln, suc, sndy txt, pyr, grt interxln por, few pcs brght yllw flor, no SFO, ft odor.

DOL: tan to lt bm to bm, fn xln, suc, emb pyr, vry lrg xln incl, sec frac, foss, chrty, grt interxln & frac por, NS.

Stopped drilling @ 2575' for log. Circulated for 30 min before short trip. Short trip to 1200', circulated for 1 hr before TOOH for logs.

LTD: 2572' @ 4:00AM on 3/22/22

Samples not observed, well was deepened after the logs were run.

Drilling ahead @ 2:15PM

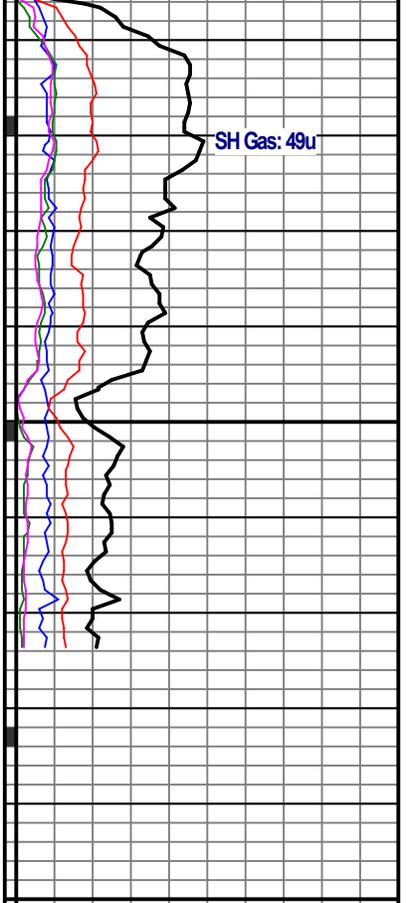
Vis 42
LCM 4

Shale Odor

Ft Odor

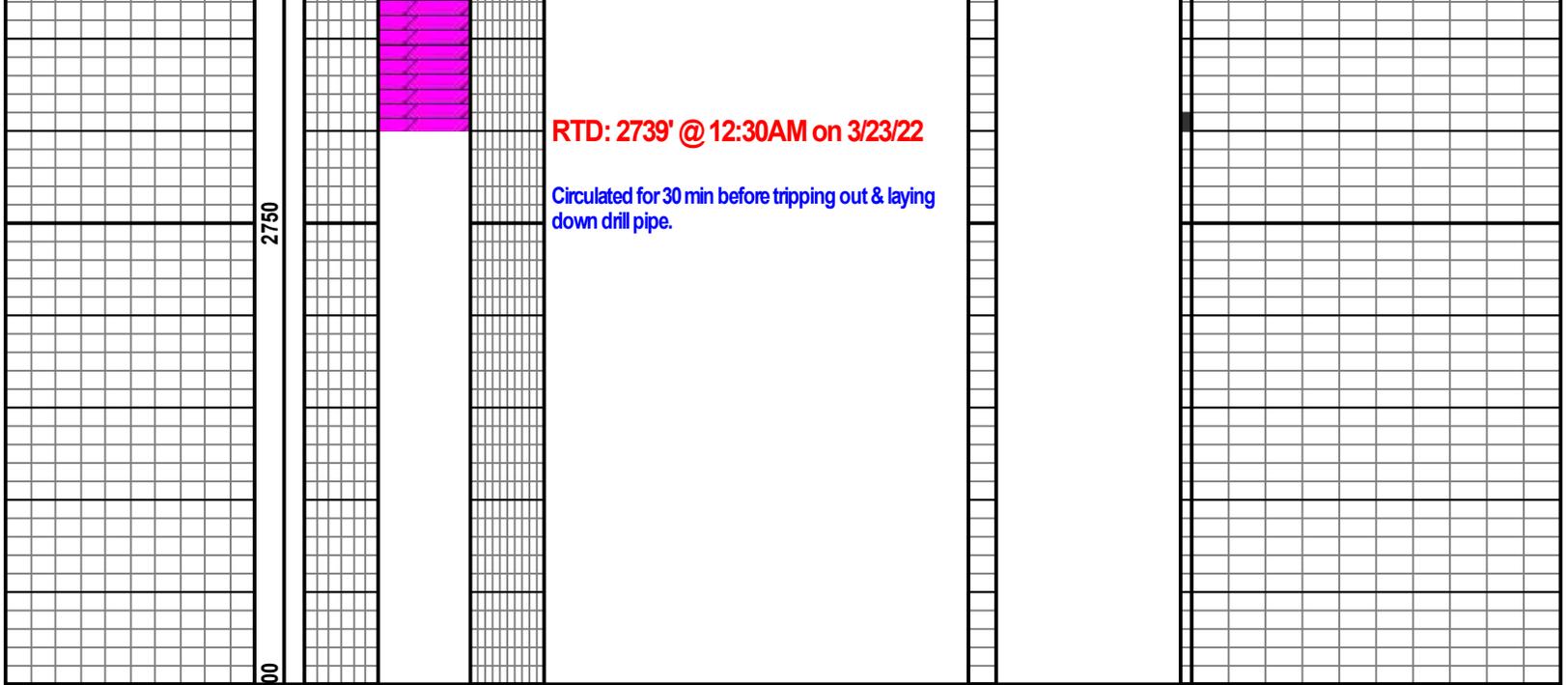
Survey @ 2575: 2 3/4 degree
Noon Depth on 3/22/22: 2575'

Maintained a 6-8# LCM till TD



SH Gas: 49u

	Total Gas (Units)	
0	C1 (Units)	100
0	C2 (Units)	100
0	C3 (Units)	100
0	C4 (Units)	100
0	C5 (Units)	100



2750

00

RTD: 2739' @ 12:30AM on 3/23/22

Circulated for 30 min before tripping out & laying down drill pipe.