KOLAR Document ID: 1655962

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 # 31119
Name: Lone Wolf Oil & Gas Co., LLC
Address 1: PO BOX 241
Address 2:
City: MOLINE State: KS Zip: 67353 + 0241
Contact Person: Rob Wolfe
Phone: (620) 647-3626
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 #:

3/19/2022 Spud Date or Recompletion Date
3/23/2022 Date Reached TD
3/31/2022 Completion Date or Recompletion Date

API No.: 15-049-22626-00-00
Spot Description:
_ - NW - SW - SE Sec. 5 Twp. 31 S. R. 10 ☑ East ☐ West
1174 Feet from ☐ North / ☑ South Line of Section
1981 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: Elk
Lease Name: KEMPTON A Well #: 3
Field Name:
Producing Formation: Arbuckle
Elevation: Ground: 1205 Kelly Bushing: 1214
Total Vertical Depth: 2730 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 40 Feet
Multiple Stage Cementing Collar Used? ☐ Yes ☑ No
If yes, show depth set: Feet
If Alternate II completion, cement circulated from: 2549
feet depth to: 0 w/ 525 sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)

Chloride content: 1100 ppm Fluid volume: 525 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: 07/12/2022
☐ **Confidential Release Date:** 07/11/2024
☑ **Wireline Log Received** ☐ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☐ I ☑ II ☐ III **Approved by:** David Befort **Date:** 07/13/2022

Operator Name: Lone Wolf Oil & Gas Co., LLC Lease Name: KEMPTON A Well #: 3

Sec. 5 Twp. 31 S. R. 10 ☑ East ☐ West County: Elk

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
Kansas City	1550	-336
Ft. Scott	1912	-698
Cherokee	1948	-734
Mississippi	2221	-1007
Kinderhook	2484	-1270
Arbuckle	2535	-1321

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	26	40	Class A	50	3% Cal
Production	7.875	5.5	15.5	2537	Thick Set 60/40 Pozmix	525	KolSeal Pheno 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	0-420	60/40 Pozmix	100	4% Gel 2% Cal.
	-			

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: 4/15/2022	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)*	2537	2730

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)*

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	Lone Wolf Oil & Gas Co., LLC
Well Name	KEMPTON A 3
Doc ID	1655962

All Electric Logs Run

Composite
Microlog
Dual Induction
Neutron Log
Cement Bond

Form	ACO1 - Well Completion
Operator	Lone Wolf Oil & Gas Co., LLC
Well Name	KEMPTON A 3
Doc ID	1655962

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	26	40	Class A	50	3% Cal
Production	7.875	5.5	15.5	2537	Thick Set 60/40 Pozmix	525	KolSeal Pheno Seal

810 E 7TH
PO Box 92
EUREKA, KS 67045
(620) 583-5561

ELITE CEMENTING & ACID SERVICE, LLC

C & C Drlg Rig #2

Cement or Acid Field Report
Ticket No. **6304**
Foreman Kevin McCoy
Camp Eureka

API # 15-041-22626

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State
3-23-22	1028	Hampton "A" 3	5	31S	10E	Elk	KS

Customer	Safety Meeting	Unit #	Driver	Unit #	Driver
Lone Wolf Oil & Gas	KM JH BW SM	105	Jason H.		
Mailing Address: Box 241		110	Broker W.		
City: Moline / State: KS / Zip Code: 67353		114	Steve M.		

Job Type Longstring — Hole Depth 2739' KB — Slurry Vol. 77 BBL Lead 47 BBL Tail — Tubing
Casing Depth 2547.77' — Hole Size 7 7/8 — Slurry Wt. 13.0# - 13.8# — Drill Pipe
Casing Size & Wt. 5 1/2 15.50# — Cement Left in Casing 14' — Water Gal/SK — Other
Displacement 61.7 BBL — Displacement PSI 1750 — Bump Plug to 2100 PSI — BPM

Remarks: Safety Meeting: 5 1/2 15.50# Casing w/ Basket Shoe Set @ 2547.77 = 3' Above K.B = 2537.77 G.L. Rig up to 5 1/2 Casing. Drop Brass Ball, Pump 12 BBL fresh water Set Basket Shoe @ 700 PSI. Good Circulation, Mixed 275 sks 60/40 Pozmix Cement w/ 6% Gel, 2# Phenoseal /sk @ 13.0# /gal, yield 1.58 = 77 BBL Slurry. Tail in w/ 150 sks Thick Set Cement w/ 5# Kol-Seal /sk 1# Phenoseal /sk @ 13.8#/gal, yield 1.75 = 47 BBL Slurry. Wash out Pump & Lines. Shut down. Release Latch down Plug. Displace Plug to Seat w/ 61.7 BBL fresh water. Final Pumping Pressure 1750 PSI. Bump Plug to 2100 PSI. wait 2 mins. Release Pressure, Float & Plug Held. No Cement to Surface. Good Circulation @ ALL times while Cementing. Job Complete. Rig down.
Note: Going to Run CBL then Run 1" tubing and top off Anulus w/ Cement @ later Date.

Centralizers on #1, 2, 3, 5, 7, 8, 10 Baskets on top of #10, 22, 32

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C 202	1	Pump Charge	1100.00	1100.00
C 107	35	Mileage	4.20	147.00
C 203	275 sks	60/40 Pozmix Cement (Lead Cement)	14.75	4056.25
C 206	1420 #	Gel 6% (Lead Cement)	.28 #	397.60
C 208	550 #	Phenoseal 2#/sk (Lead Cement)	1.45 #	797.50
C 201	150 sks	Thick Set Cement (Tail Cement)	22.55	3382.50
C 207	750 #	Kol-Seal 5#/sk (Tail Cement)	.52 #	390.00
C 208	150 #	Phenoseal 1#/sk (Tail Cement)	1.45 #	217.50
C 211	35 #	CFL-115 1/4% (Tail Cement)	12.10 #	423.50
C 108	20.08 Tons	Ton Mileage	1.40	783.92
C 421	1	5 1/2 Latch down Plug	266.00	266.00
C 761	1	5 1/2 Type B Basket Shoe	1491.00	1491.00
C 681	1	5 1/2 Float Collar Body only	237.00	237.00
C 504	5	5 1/2 x 7 7/8 Centralizers	55.00	275.00
C 604	3	5 1/2 Cement Baskets	260.00	780.00
			Sub Total	14,944.77
		THANK YOU	Less 5%	747.72
		7.5%	Sales Tax	953.54
			Total	15,103.31

Authorization Bob Wolfe Title

I agree to the payment terms and conditions of services provided on the back of this job ticket. Any amendments to payment terms must be in writing on the front of this job ticket or in the Customer's records at ELITE's office.

810 E 7TH
PO Box 92
EUREKA, KS 67045
(620) 583-5561

ELITE CEMENTING & ACID SERVICE, LLC

Cement or Acid Field Report
Ticket No. **6320**
Foreman Kevin McCoy
Camp Eureka

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State
3-31-22	1028	Kempton # A 3	5	31S	10E	Elk	Ks

Customer	Safety Meeting	Unit #	Driver	Unit #	Driver
Lone Wolf Oil & Gas	KM AM SM	104	Alan M.		
Mailing Address: Box 241		112	Steve M.		
City: Moline / State: Ks / Zip Code: 67353					

Job Type Top outside — Hole Depth — Slurry Vol. — Tubing 1" Hydril
Casing Depth — Hole Size 7 7/8 — Slurry Wt. — Drill Pipe
Casing Size & Wt. 5 1/2 — Cement Left in Casing — Water Gal/SK — Other
Displacement — Displacement PSI — Bump Plug to — BPM

Remarks: Safety Meeting: Ran 1" Hydril Tubing down annulus of 5 1/2 Casing. Tag Firm Cement @ 420', Pump 5 Bbl Fresh water. Mixed 65 sks 60/40 Pozmix Cement w/ 4% Gel, 2% CaCl2 = 17 Bbl Slurry. Good Cement to Surface. Pull 1" Tubing. Plug RH w/ 20 sks, MH w/ 15 sks Job Complete. Rig down.

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C 104	1	Pump Charge 2ND well of 2	525.00	525.00
C 107	~~0~~	Mileage	~~0~~	N/C
C 203	100 sks	60/40 Pozmix Cement	14.75	1475.00
C 206	345 #	4% Gel	.28 #	96.60
C 205	175 #	2% CaCl2	.69 #	120.75
C 108 A	4.3 Tons	Ton Mileage	M/C	365.00
C 118	1	1" Hydril Rental, wash Head, Elevators	150.00	150.00
			Sub Total	2732.35
		Thank You	Less 5%	143.53
			Sales Tax	138.18
			Total	2,727.00

Authorization By Rob Wolfe — Title —

I agree to the payment terms and conditions of services provided on the back of this job ticket. Any amendments to payment terms must be in writing on the front of this job ticket or in the Customer's records at ELITE's office.

810 E 7TH
PO Box 92
EUREKA, KS 67045
(620) 583-5561

ELITE CEMENTING & ACID SERVICE, LLC

C76 Drlg Rig #2

Cement or Acid Field Report
Ticket No. **6276**
Foreman Kevin McCoy
Camp Eureka

API 15-049-22626

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State
3-19-22	1028	Kempton "A" 3	5	31S	10E	Elk	Ks

Customer	Safety Meeting	Unit #	Driver	Unit #	Driver
Lone Wolf Oil & Gas	KM SF SM	111	Shannon F.		
Mailing Address: Box 241		110	Steve M.		
City: Moline / State: Ks / Zip Code: 67353					

Job Type Surface — Hole Depth 57' — Slurry Vol. 12 BBL — Tubing
Casing Depth 42' G.L. — Hole Size — Slurry Wt. 15# — Drill Pipe
Casing Size & Wt. 8 5/8" — Cement Left in Casing 10' — Water Gal/SK — Other
Displacement 3 BBL — Displacement PSI — Bump Plug to — BPM

Remarks: Safety Meeting: Rig up to 8 5/8 Casing. Break Circulation w/ 5 BBL fresh water. Mixed 50 sks Class 'A' Cement w/ 3% CaCl2 2% Gel @ 15#/gal. Displace w/ 3 BBL fresh water. Good Cement to surface. Shut Casing in. Job Complete. Rig down.

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C 101	1	Pump Charge	870.00	870.00
C 107	35	Mileage	4.20	147.00
C 200	50 sks	Class 'A' Cement	17.35	867.50
C 205	140#	CaCl2 3%	.69#	96.60
C 206	100#	Gel 2%	.28#	28.00
C 108A	2.35 Tons	Ton Mileage	M/C	365.00
			Sub Total	2394.10
			Less 5%	123.43
		7.5%	Sales Tax	74.41
			Total	2345.08

Authorization By Rob Wolfe Title

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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**	**Region:**	**Elk County, KS**
Spud Date:	**3/19/2022**	**Drilling Completed:**	**3/23/2022**
Surface Coordinates:	**1174' FSL & 1981' FEL**		
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'

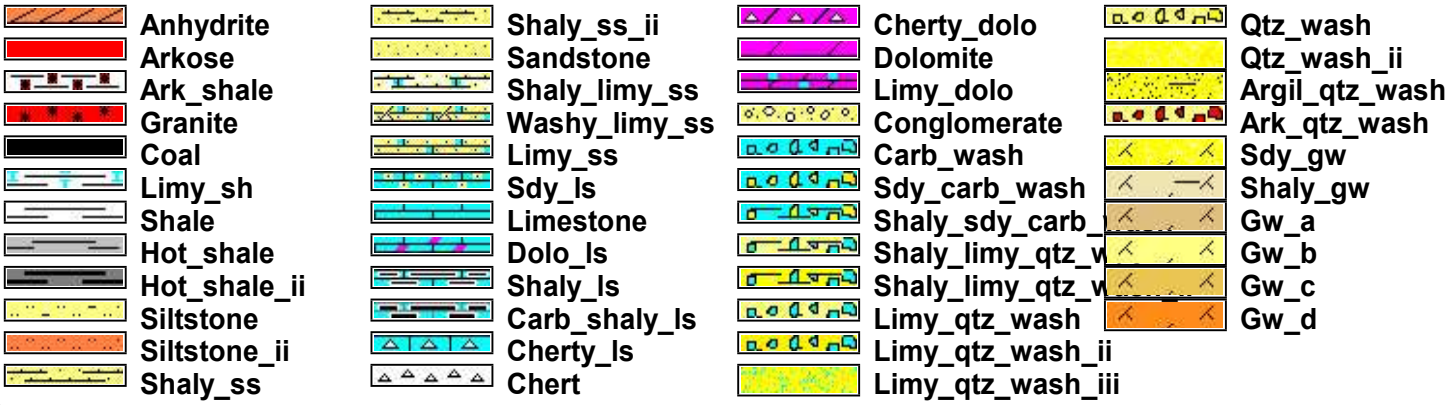
Merrimack Limestone - off white to cream to various browns mott to occ gry, fine to medium crystalline, heavy recrystallixation, highly weathered, very chalky, very cherty with blue to gray fresh chert, secondary fractures, dolomitic, sucrosic, sandy texture, carb & silica inclusions, great intercrystalline 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



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_ls
- Chert
- Cherty_dolo
- Dolomite
- Limy_dolo
- Conglomerate
- Carb_wash
- Sdy_carb_wash
- Shaly_sdy_carb_wash
- Shaly_limy_qtz_wash
- Shaly_limy_qtz_wash_i
- 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

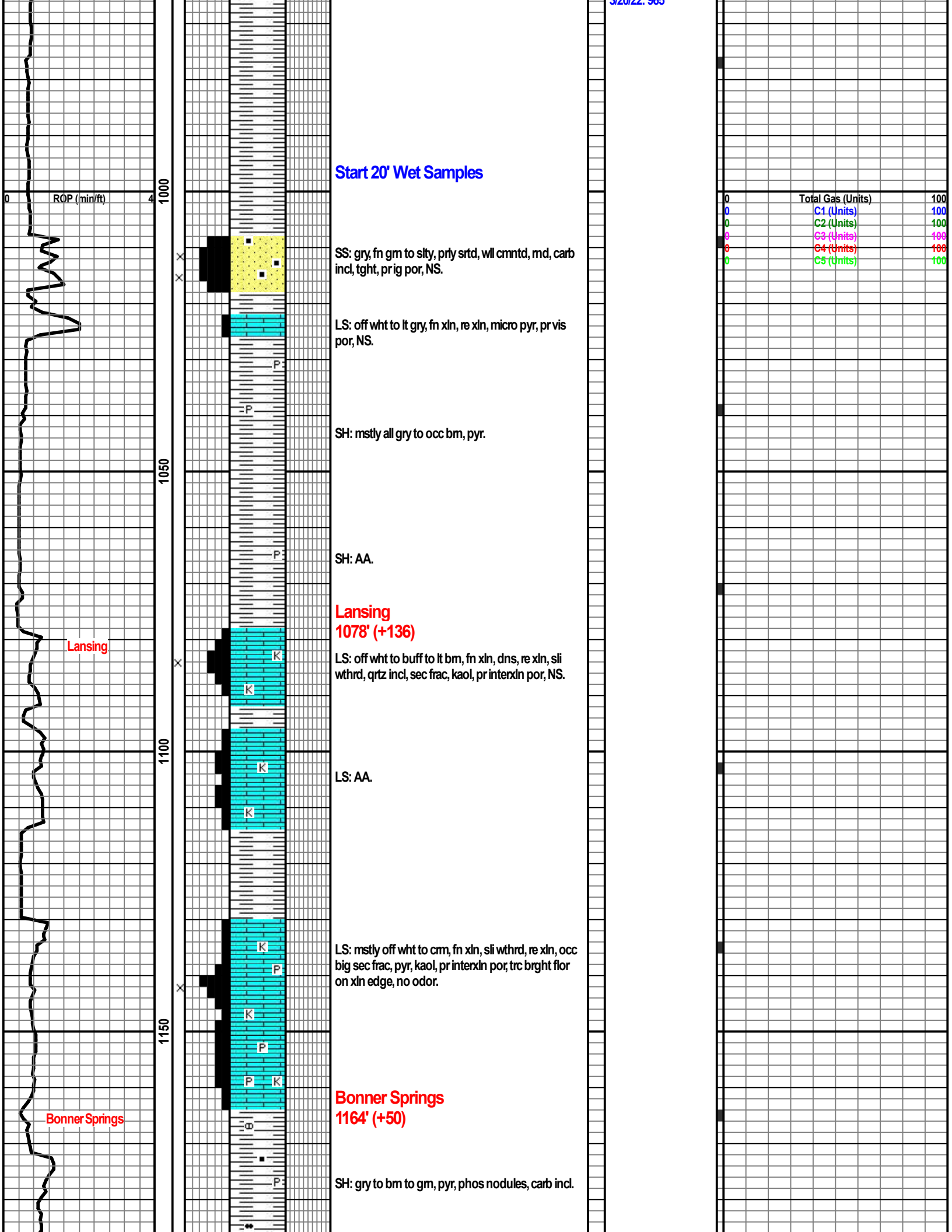
FOSSIL
- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom

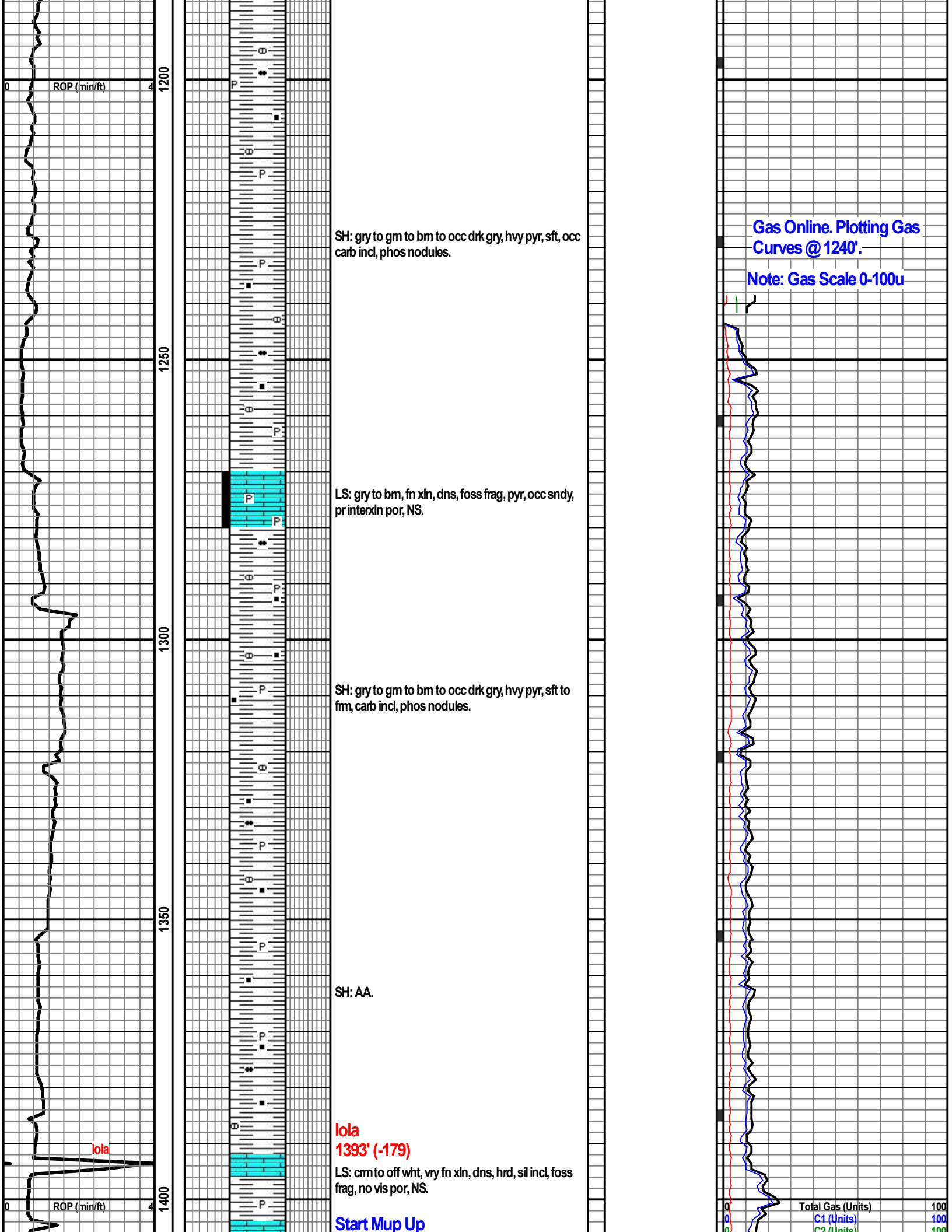
MINERAL
- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Brecfrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff

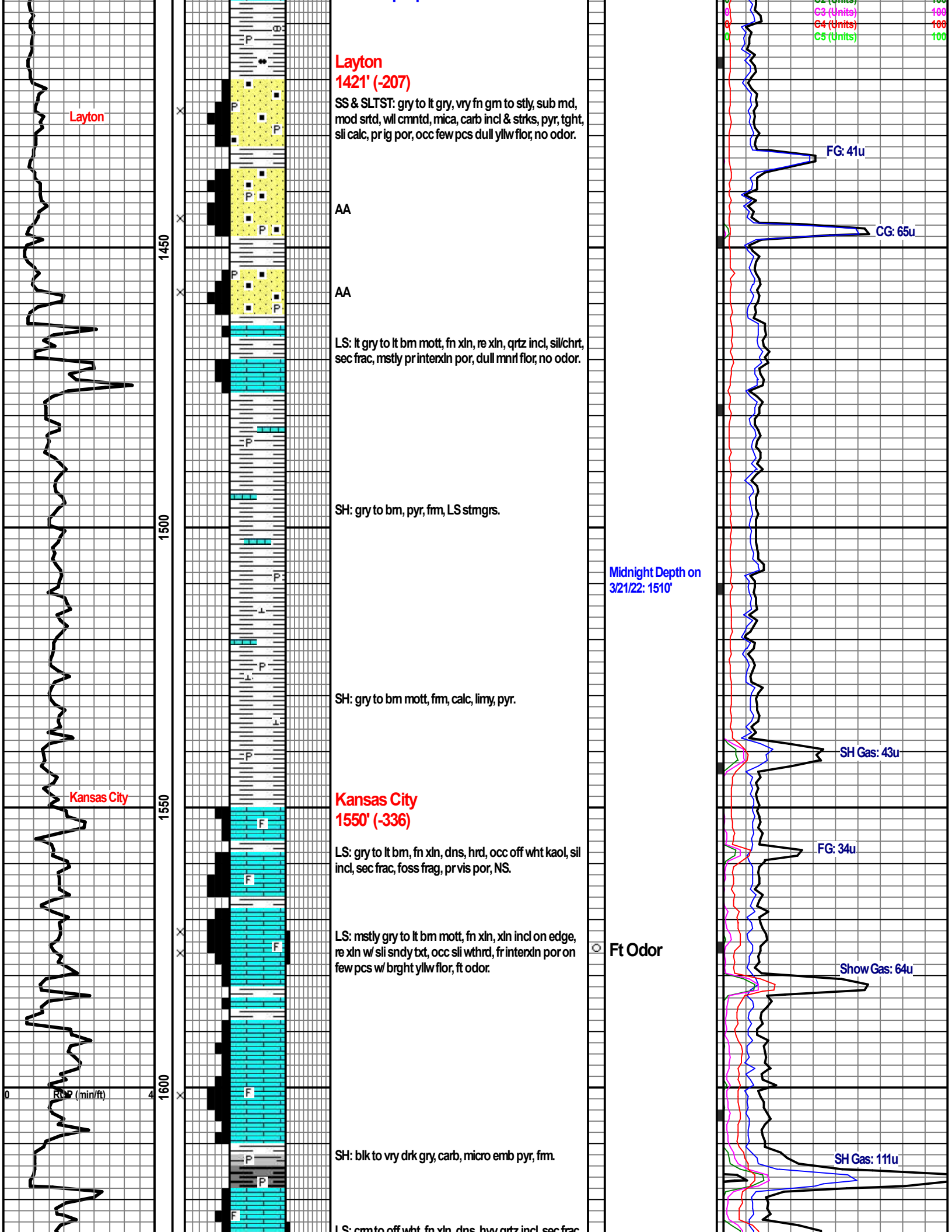
TEXTURE
- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest

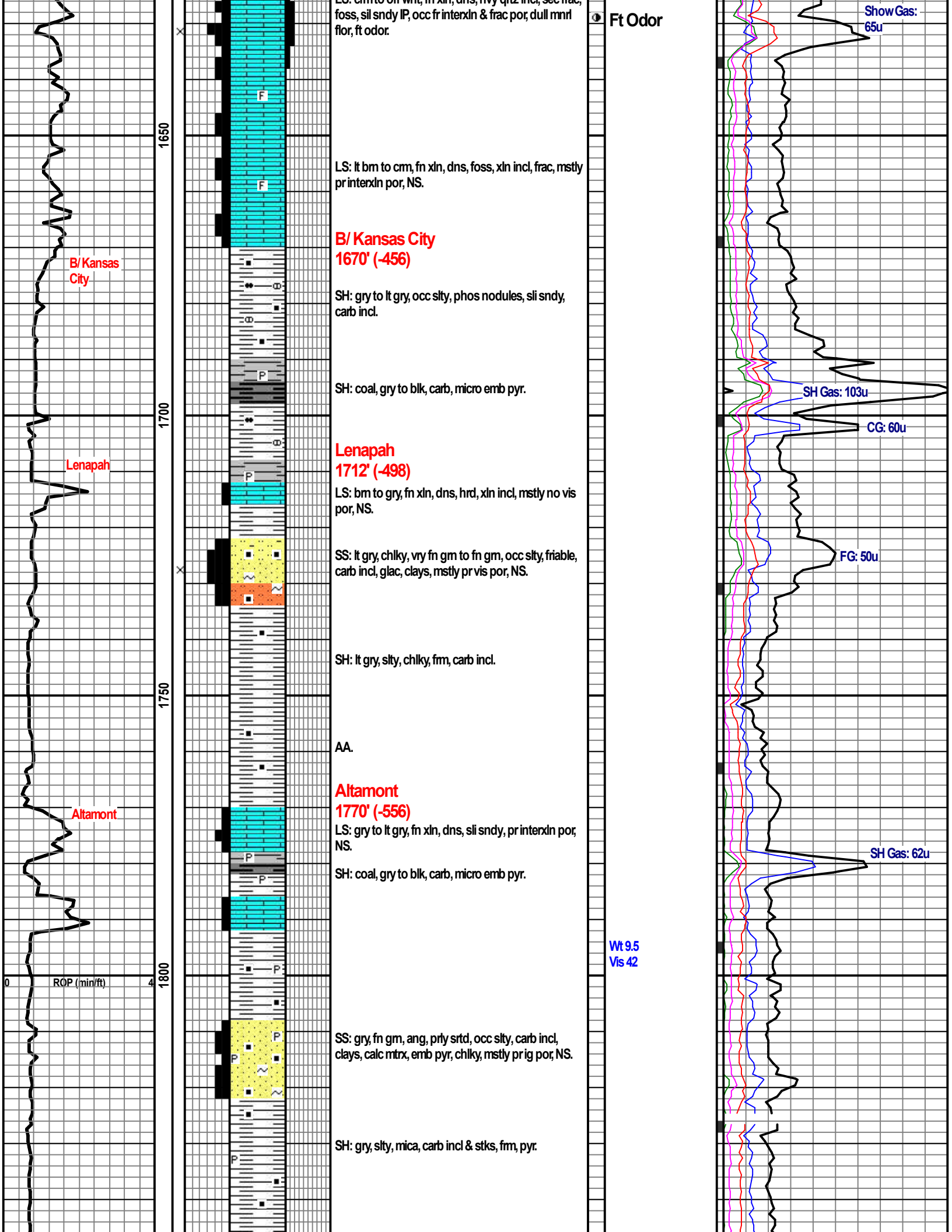
OIL SHOW
- Gas show
- Even
- Spotted
- Ques
- Dead

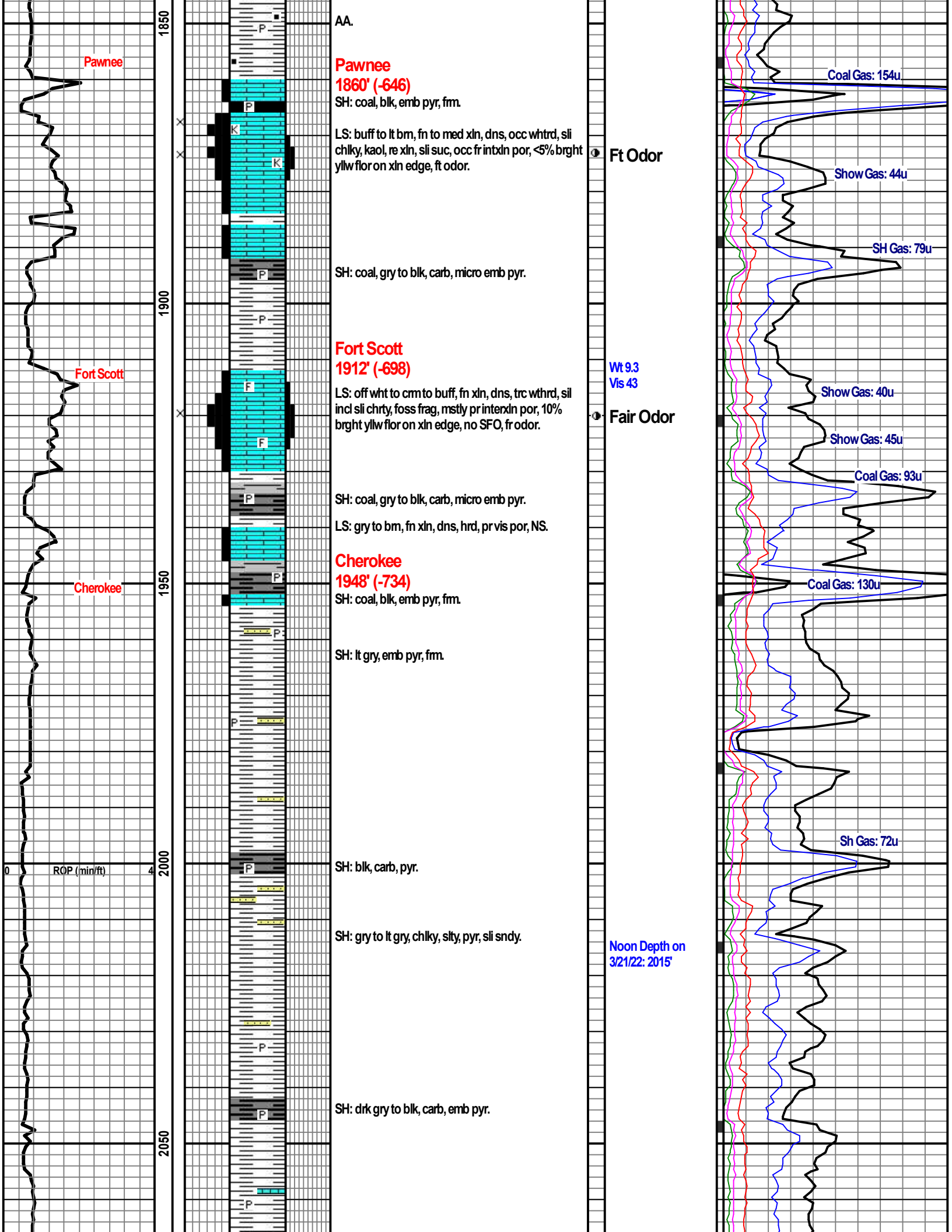
Penetration Rate ROP (min/ft)	MD Porosity Type	Porosity 24% 16% 8%	Lithology	Oil Shows	Geological Descriptions	Oil Shows	Remarks	Total Gas, C1-C5 Total Gas (Units) C1 (Units) C2 (Units) C3 (Units) C4 (Units) C5 (Units)
0 ROP (min/ft) 4 Note: Depth Scale is from 0-4 min/ft	900 950				40' of 8 5/8" Surface Pipe was set @ 1:30 PM on 3/19/22.		Noon Depth on 3/20/22: 965'	0 Total Gas (Units) 100 0 C1 (Units) 100 0 C2 (Units) 100 0 C3 (Units) 100 0 C4 (Units) 100 0 C5 (Units) 100

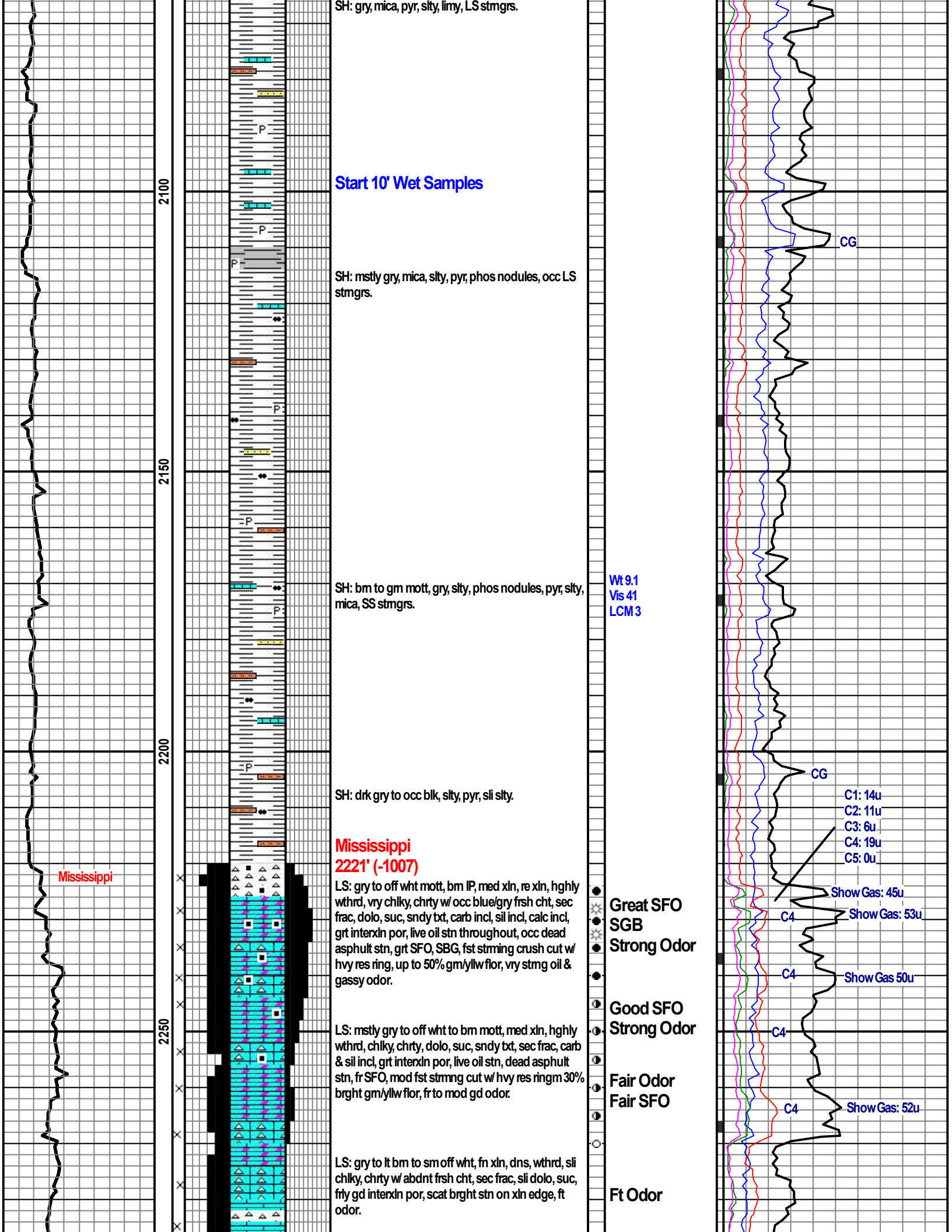

3/20/22: 965
Start 20' Wet Samples
0 ROP (min/ft) 4
1000
1050
1100
1150
0 Total Gas (Units) 100
0 C1 (Units) 100
0 C2 (Units) 100
0 C3 (Units) 100
0 C4 (Units) 100
0 C5 (Units) 100
SS: gry, fn gm to slty, prly srtd, wll cmntd, md, carb incl, tght, pr ig por, NS.
LS: off wht to lt gry, fn xln, re xln, micro pyr, pr vis por, NS.
SH: mstly all gry to occ brn, pyr.
SH: AA.
Lansing
1078' (+136)
Lansing
LS: off wht to buff to lt brn, fn xln, dns, re xln, sli wthrd, qrtz incl, sec frac, kaol, pr interxln por, NS.
LS: AA.
LS: mstly off wht to crm, 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)
Bonner Springs
SH: gry to brn to gm, pyr, phos nodules, carb incl.

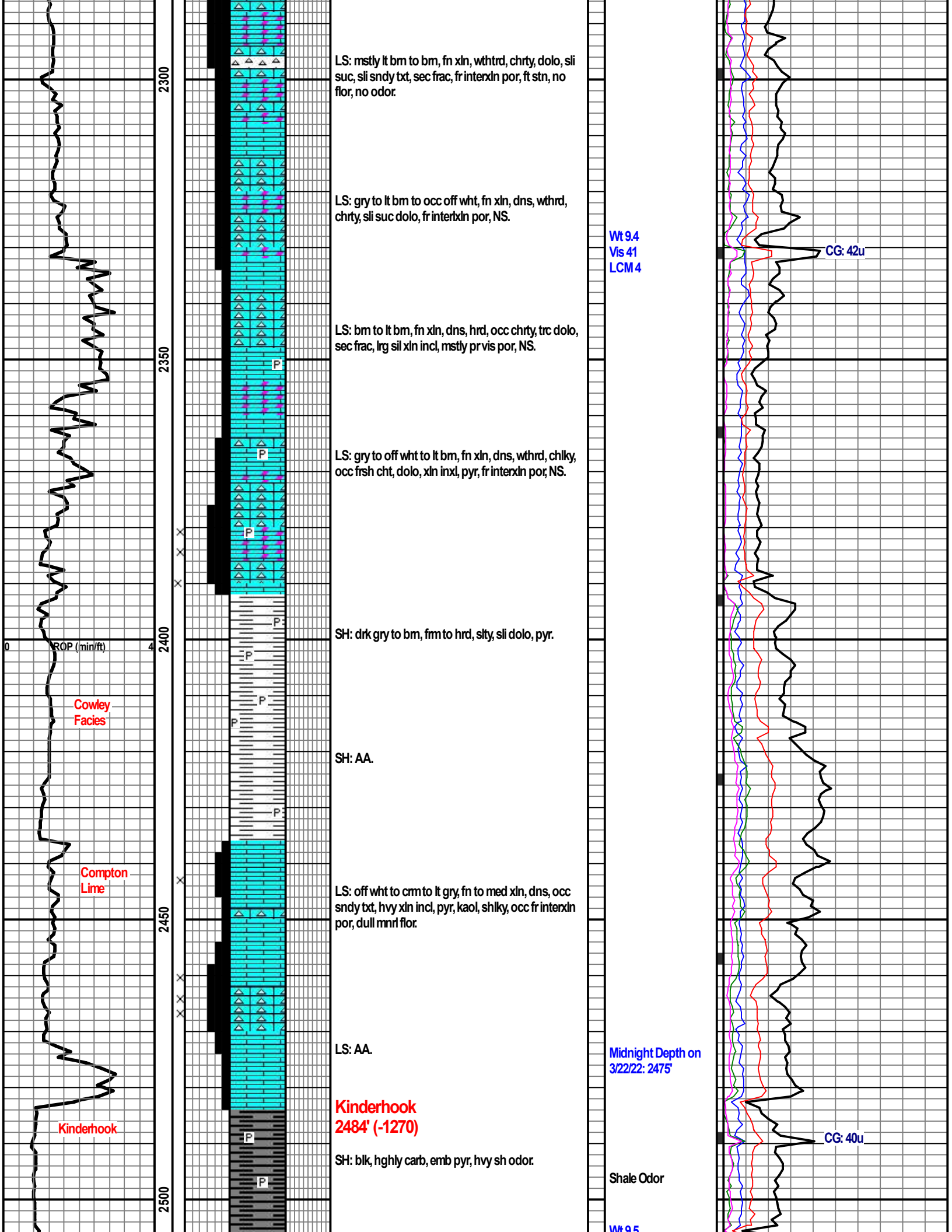

0
ROP (min/ft)
4
1200
1250
1300
1350
1400
SH: gry to gm to brn to occ drk gry, hvy pyr, sft, occ carb incl, phos nodules.
LS: gry to brn, fn xln, dns, foss frag, pyr, occ sndy, pr interxln por, NS.
SH: gry to gm to brn to occ drk gry, hvy pyr, sft to frm, carb incl, phos nodules.
SH: AA.
Iola
1393' (-179)
LS: crm to off wht, vry fn xln, dns, hrd, sil incl, foss frag, no vis por, NS.
Start Mup Up
Gas Online. Plotting Gas Curves @ 1240'.
Note: Gas Scale 0-100u
Total Gas (Units)
C1 (Units)
C2 (Units)
100

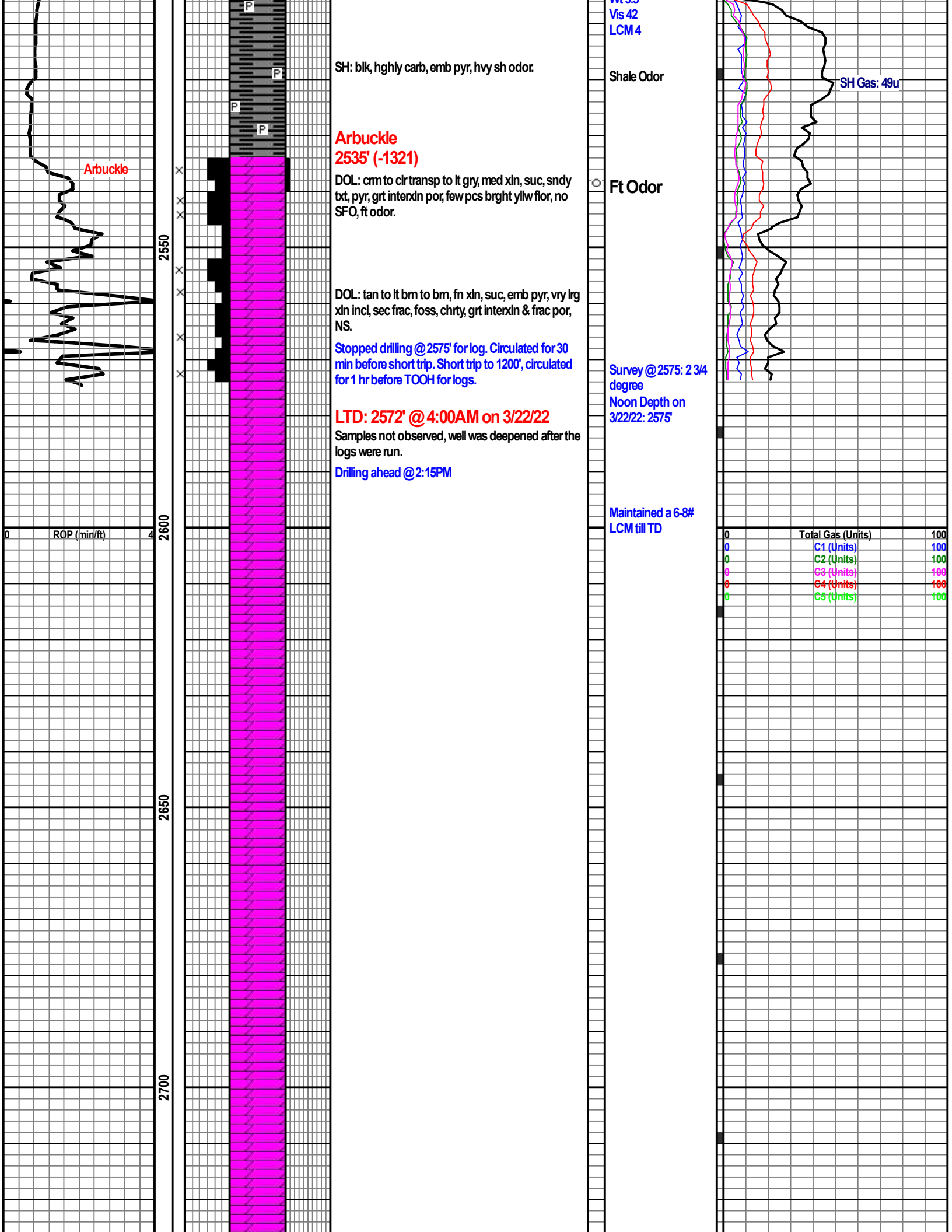

Layton
Kansas City
1450
1500
1550
1600
0
ROP (min/ft)
4
Layton
1421' (-207)
SS & SLTST: gry to lt gry, vry fn grn to stly, sub rnd, mod srtd, wll cmntd, mica, carb incl & strks, pyr, tght, sli calc, pr ig por, occ few pcs dull yllw flor, no odor.
AA
AA
LS: lt gry to lt brn mott, fn xln, re xln, qrtz incl, sil/chrt, sec frac, mstly pr interxln por, dull mnrl flor, no odor.
SH: gry to brn, pyr, frm, LS stmgrs.
SH: gry to brn mott, frm, calc, limy, pyr.
Kansas City
1550' (-336)
LS: gry to lt brn, fn xln, dns, hrd, occ off wht kaol, sil incl, sec frac, foss frag, pr vis por, NS.
LS: mstly gry to lt brn mott, fn xln, xln incl on edge, re xln w/ sli sndy txt, occ sli wthrd, fr interxln por on few pcs w/ brght yllw flor, ft odor.
SH: blk to vry drk gry, carb, micro emb pyr, frm.
LS: crm to off wht, fn xln, dns, hvy qrtz incl, sec frac,
Midnight Depth on 3/21/22: 1510'
Ft Odor
C2 (Units)
C3 (Units)
C4 (Units)
C5 (Units)
0
100
FG: 41u
CG: 65u
SH Gas: 43u
FG: 34u
Show Gas: 64u
SH Gas: 111u

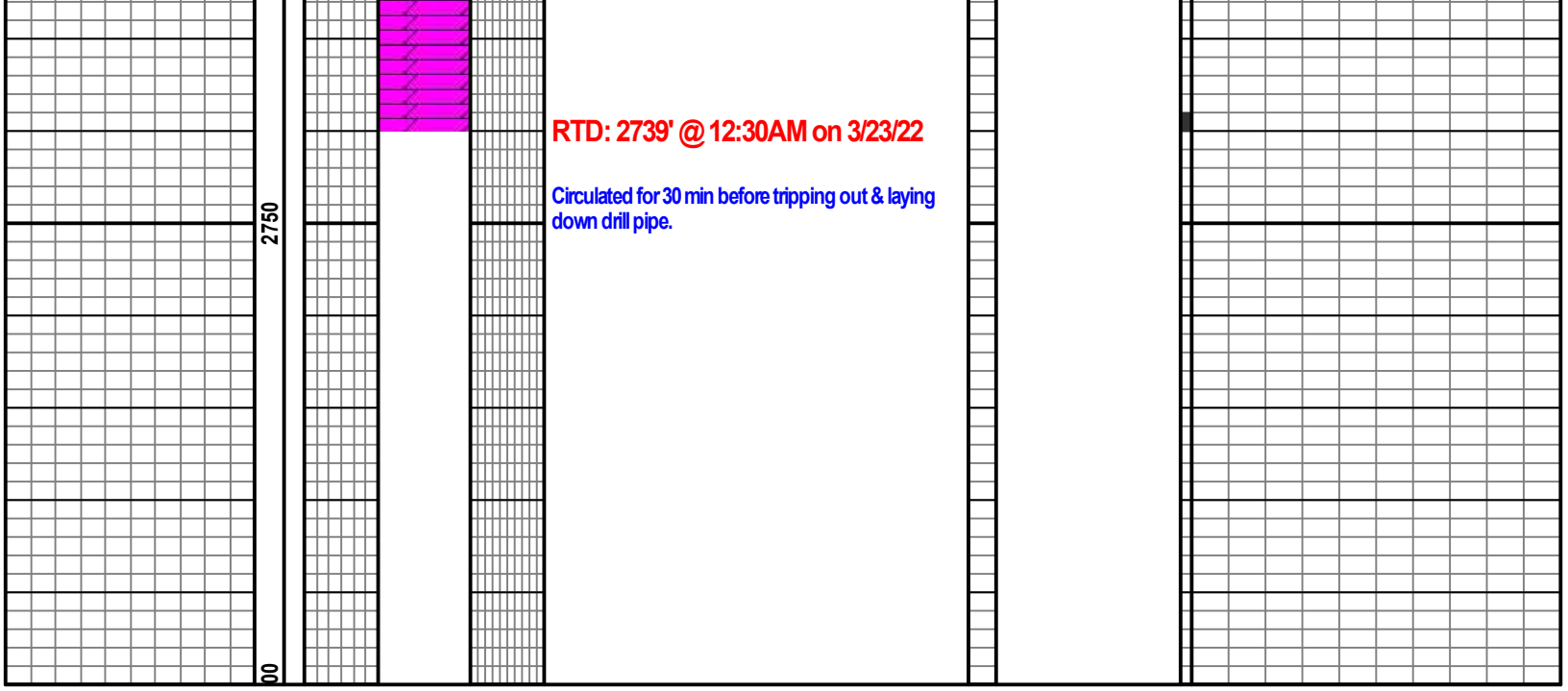

LS: crm to off wht, fn xln, dns, rvy qtz incl, sec frac, foss, sil sndy lP, occ fr interxln & frac por, dull mnrl flor, ft odor.
Ft Odor
Show Gas: 65u
LS: lt brn to crm, fn xln, dns, foss, xln incl, frac, mstly pr interxln por, NS.
B/ Kansas City
1670' (-456)
SH: gry to lt gry, occ slty, phos nodules, sli sndy, carb incl.
SH: coal, gry to blk, carb, micro emb pyr.
SH Gas: 103u
CG: 60u
Lenapah
1712' (-498)
LS: brn to gry, fn xln, dns, hrd, xln incl, mstly no vis por, NS.
SS: lt gry, chlky, vry fn grn to fn grn, occ slty, friable, carb incl, glac, clays, mstly pr vis por, NS.
FG: 50u
SH: lt gry, slty, chlky, frm, carb incl.
AA.
Altamont
1770' (-556)
LS: gry to lt gry, fn xln, dns, sli sndy, pr interxln por, NS.
SH Gas: 62u
SH: coal, gry to blk, carb, micro emb pyr.
Wt 9.5
Vis 42
SS: gry, fn grn, ang, prly srtd, occ slty, carb incl, clays, calc mtrx, emb pyr, chlky, mstly pr ig por, NS.
SH: gry, slty, mica, carb incl & stks, frm, pyr.
B/ Kansas City
Lenapah
Altamont
1650
1700
1750
1800
0
ROP (min/ft)
4
F
P


Pawnee
Fort Scott
Cherokee
1850
1900
1950
2000
2050
0
ROP (min/ft)
4
AA.
Pawnee
1860' (-646)
SH: coal, blk, emb pyr, frm.
LS: buff to lt brn, fn to med xln, dns, occ whtrd, sli chlky, kaol, re xln, sli suc, occ fr intxln por, <5% brght yllw flor on xln edge, ft odor.
Ft Odor
SH: coal, gry to blk, carb, micro emb pyr.
Fort Scott
1912' (-698)
Wt 9.3
Vis 43
LS: off wht to crm to buff, fn xln, dns, trc wthrd, sil incl sli chrty, foss frag, mstly pr interxln por, 10% brght yllw flor on xln edge, no SFO, fr odor.
Fair Odor
SH: coal, gry to blk, carb, micro emb pyr.
LS: gry to brn, fn xln, dns, hrd, pr vis por, NS.
Cherokee
1948' (-734)
SH: coal, blk, emb pyr, frm.
SH: lt gry, emb pyr, frm.
SH: blk, carb, pyr.
SH: gry to lt gry, chlky, slty, pyr, sli sndy.
Noon Depth on 3/21/22: 2015'
SH: drk gry to blk, carb, emb pyr.
Coal Gas: 154u
Show Gas: 44u
SH Gas: 79u
Show Gas: 40u
Show Gas: 45u
Coal Gas: 93u
Coal Gas: 130u
Sh Gas: 72u


SH: gry, mica, pyr, slty, limy, LS stmgrs.
Start 10' Wet Samples
SH: mstly gry, mica, slty, pyr, phos nodules, occ LS stmgrs.
SH: brn to gm mott, gry, slty, phos nodules, pyr, slty, mica, SS stmgrs.
Wt 9.1
Vis 41
LCM 3
SH: drk gry to occ blk, slty, pyr, sli slty.
Mississippi
2221' (-1007)
LS: gry to off wht mott, brn 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 asphult stn, grt SFO, SBG, fst strming crush cut w/ hvy res ring, up to 50% gm/yllw flor, vry strng oil & gassy odor.
Great SFO
SGB
Strong Odor
LS: mstly gry to off wht to brn mott, med xln, hghly wthrd, chlky, chrty, dolo, suc, sndy txt, sec frac, carb & sil incl, grt interxln por, live oil stn, dead asphult stn, fr SFO, mod fst strmng cut w/ hvy res ringm 30% brght gm/yllw flor, fr to mod gd odor.
Good SFO
Strong Odor
Fair Odor
Fair SFO
LS: gry to lt brn to sm off wht, fn xln, dns, wthrd, sli chlky, chrty w/ abdnt frsh cht, sec frac, sli dolo, suc, frly gd interxln por, scat brght stn on xln edge, ft odor.
Ft Odor
Mississippi
2100
2150
2200
2250
CG
CG
C1: 14u
C2: 11u
C3: 6u
C4: 19u
C5: 0u
Show Gas: 45u
C4
Show Gas: 53u
C4
Show Gas 50u
C4
C4
Show Gas: 52u


2300
2350
2400
2450
2500
0
ROP (min/ft)
4
Cowley Facies
Compton Lime
Kinderhook
LS: mstly lt brn to brn, fn xln, wthtrd, chrty, dolo, sli suc, sli sndy txt, sec frac, fr interxln por, ft stn, no flor, no odor.
LS: gry to lt brn to occ off wht, fn xln, dns, wthrd, chrty, sli suc dolo, fr interlxln por, NS.
Wt 9.4
Vis 41
LCM 4
CG: 42u
LS: brn to lt brn, 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 brn, fn xln, dns, wthrd, chlky, occ frsh cht, dolo, xln inxl, pyr, fr interxln por, NS.
SH: drk gry to brn, frm to hrd, slty, sli dolo, pyr.
SH: AA.
LS: off wht to crm 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.
Midnight Depth on 3/22/22: 2475'
Kinderhook
2484' (-1270)
CG: 40u
SH: blk, hghly carb, emb pyr, hvy sh odor.
Shale Odor
Wt 9.5


Arbuckle
2550
2600
2650
2700
0
ROP (min/ft)
4
P
P
P
P
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 brn to brn, 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
0
Total Gas (Units)
100
0
C1 (Units)
100
0
C2 (Units)
100
0
C3 (Units)
100
0
C4 (Units)
100
0
C5 (Units)
100


2750
RTD: 2739' @ 12:30AM on 3/23/22
Circulated for 30 min before tripping out & laying down drill pipe.