KOLAR Document ID: 1529665

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 #:

6/23/2020 Spud Date or Recompletion Date
6/26/2020 Date Reached TD
6/26/2020 Completion Date or Recompletion Date

API No.: 15-049-22622-00-00
Spot Description:
SE - SW - SW - SW Sec. 25 Twp. 30 S. R. 9 ☑ East ☐ West
200 Feet from ☐ North / ☑ South Line of Section
530 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: MARKLEY Well #: 1
Field Name:
Producing Formation: Mississippi
Elevation: Ground: 1224 Kelly Bushing: 1233
Total Vertical Depth: 2626 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 42 Feet
Multiple Stage Cementing Collar Used? ☐ Yes ☑ No
If yes, show depth set: Feet
If Alternate II completion, cement circulated from: 2608
feet depth to: 0 w/ 360 sx cmt.

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

Chloride content: 900 ppm Fluid volume: 380 bbls
Dewatering method used: Hauled to Disposal
Location of fluid disposal if hauled offsite:
Operator Name: Lone Wolf Oil & Gas Co. LLC
Lease Name: Cain License #: 31119
Quarter SW Sec. 36 Twp. 30 S. R. 9 ☑ East ☐ West
County: Elk Permit #: E-32,839

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: 09/10/2020
☐ **Confidential Release Date:** 09/10/2022
☑ **Wireline Log Received** ☐ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☐ I ☑ II ☐ III **Approved by:** Karen Ritter **Date:** 09/15/2020

Operator Name: Lone Wolf Oil & Gas Co., LLC Lease Name: MARKLEY Well #: 1

Sec. 25 Twp. 30 S. R. 9 ☑ 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
Layton	1478	-245
Kansas City	1510	-277
Ft Scott	1967	-734
Cherokee	2006	-773
Mississippi	2278	-1045
Kinderhook	2580	-1347

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	42	Class A	55	3% caclz
Production	7.78	5.5	15.5	2608	Thick Set	200	Kol-Seal Phenoseal

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:
☐ Perforate
☑ Protect Casing
☐ Plug Back TD
☐ Plug Off Zone

Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
0-1190	60/40 Pozmix	160	
-			

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: 9/1/2020

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:
☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION:
☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*

PRODUCTION INTERVAL:

Top	Bottom
2453	2458
2463	2468

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	2453	2458			1750 gal. 15% acid
1	2463	2468			

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	MARKLEY 1
Doc ID	1529665

All Electric Logs Run

composite
dual induction
gamma ray
cement bond

Form	ACO1 - Well Completion
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Well Name	MARKLEY 1
Doc ID	1529665

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	42	Class A	55	3% caclz
Production	7.78	5.5	15.5	2608	Thick Set	200	Kol-Seal Phenoseal

LOCATION AND LEGALS DATA

WellSight Systems

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

Well Name:	**Markley 1**		
API:	**15-049-22622**		
Location:	**SE SW SW SW S25-T30S-R9E**		
License Number:	**31119**	**Region:**	**Elk County, KS**
Spud Date:	**6/22/20**	**Drilling Completed:**	**6/25/20**
Surface Coordinates:	**200 North, 530 East, from SW corner**		
Bottom Hole Coordinates:			
Ground Elevation (ft):	**1224'**	**K.B. Elevation (ft):**	**1233'**
Logged Interval (ft):	**Surface To: 2620'**	**Total Depth (ft):**	**2626'**
Formation:	**Mississippi**		
Type of Drilling Fluid:	**WATER BASED**		

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

Formation	Log Tops
Iatan	1022' (211)
Lansing	1090' (143)
Bonner Springs	1324' (-91)
Iola	1452' (-219)
Layton Sd	1478' (-245)
Kansas City	1510' (-277)
Doods Creek	1626' (393)
B/ Kansas City	1724' (-491)
Lenapah	1769' (-536)
Cleveland Sand	1790' (-557)
Altamont	1826' (-593)
Pawnee	1920' (-687)
Fort Scott	1967' (-734)
Cherokee	2006' (-773)
Mississippi	2278' (-1045)
Kinderhook	2580' (-1347)

OPERATOR

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

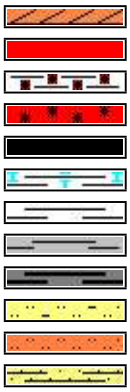
GEOLOGIST

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

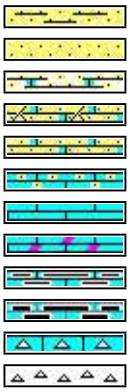
COMMENTS

5 1/2" Casing was ran and cemented to top to further evalutate the Mississippi Formation

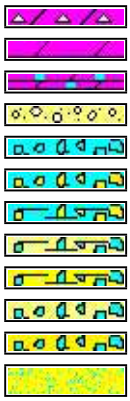
ROCK TYPES



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
Cement
Carb_wash
Sdy_carb_wash
Shaly_sdy_carb_
Shaly_limy_qtz_w
Shaly_limy_qtz_w
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

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

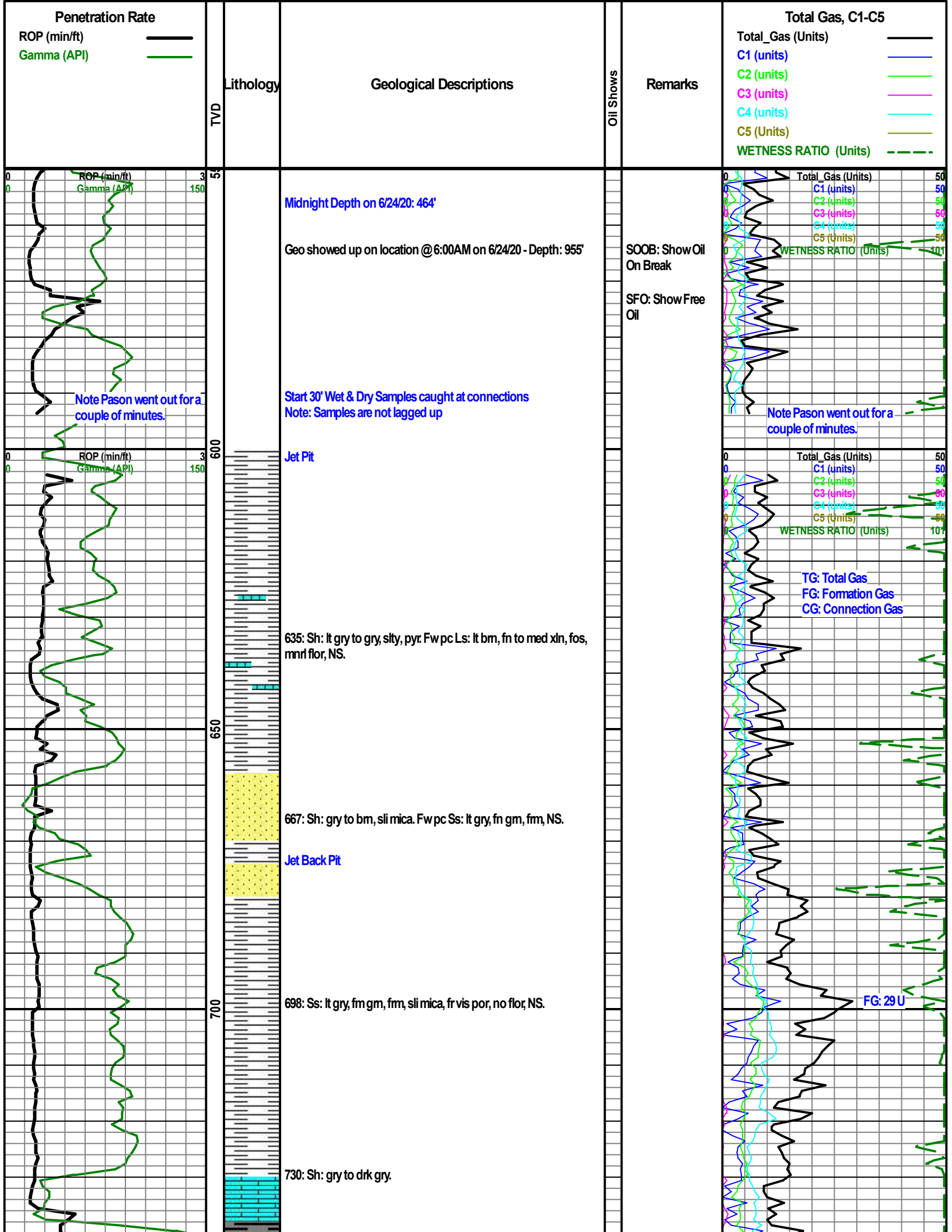
Sandy ls str
Shale
Siltstone
Sandstone

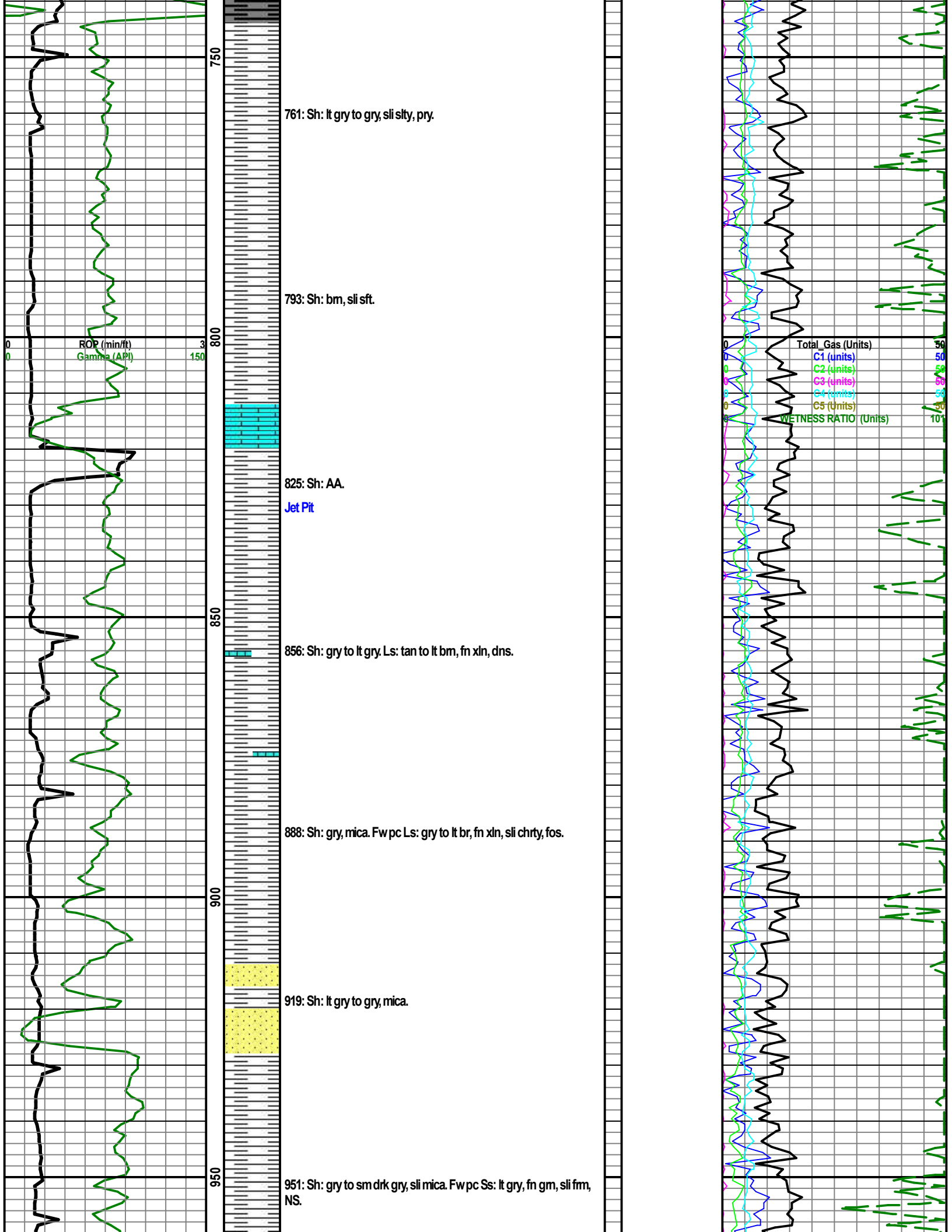
TEXTURE

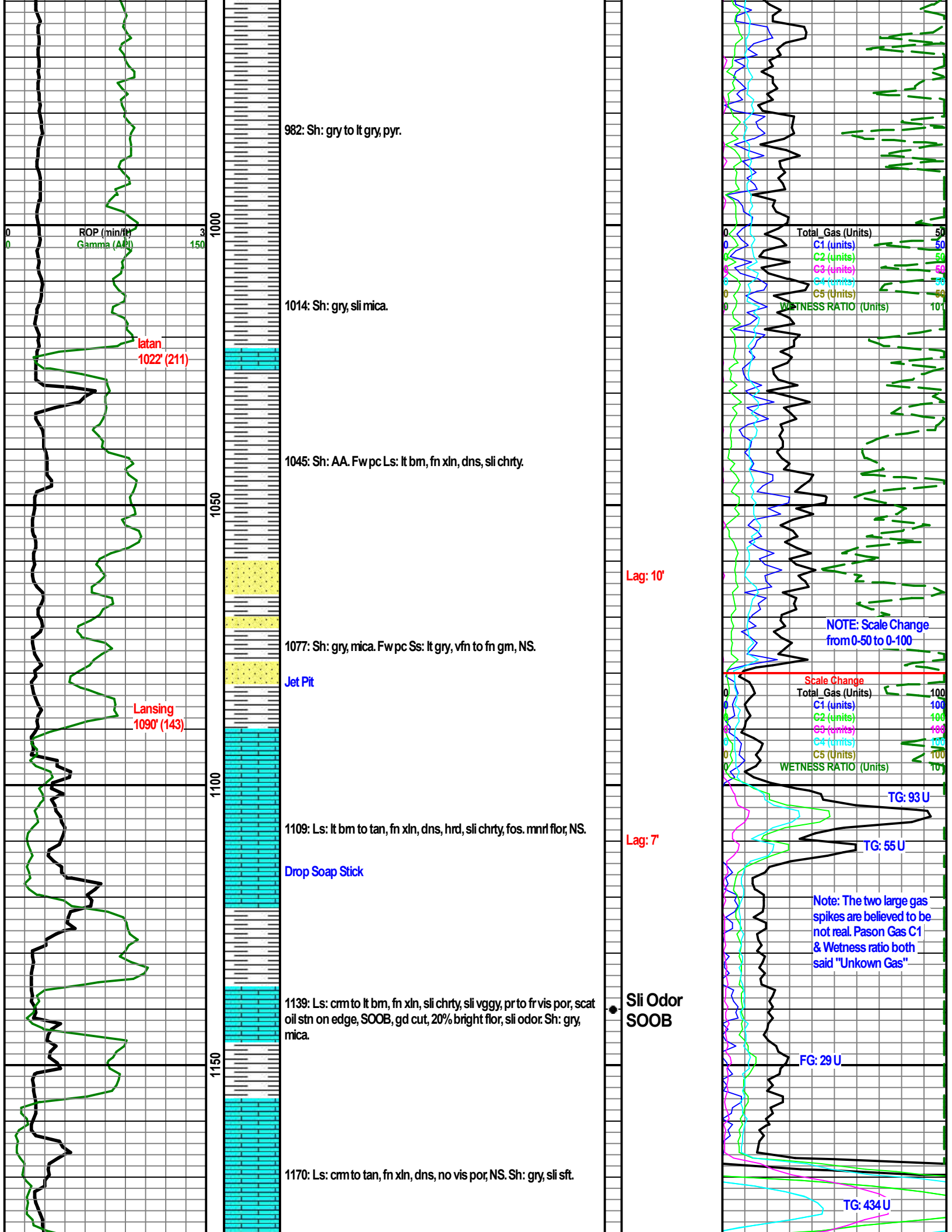
Boundst
Chalky
Cryxln
Earthy
Finexln
Grainst
Lithogr
Microxln
Mudst
Packst
Wackest

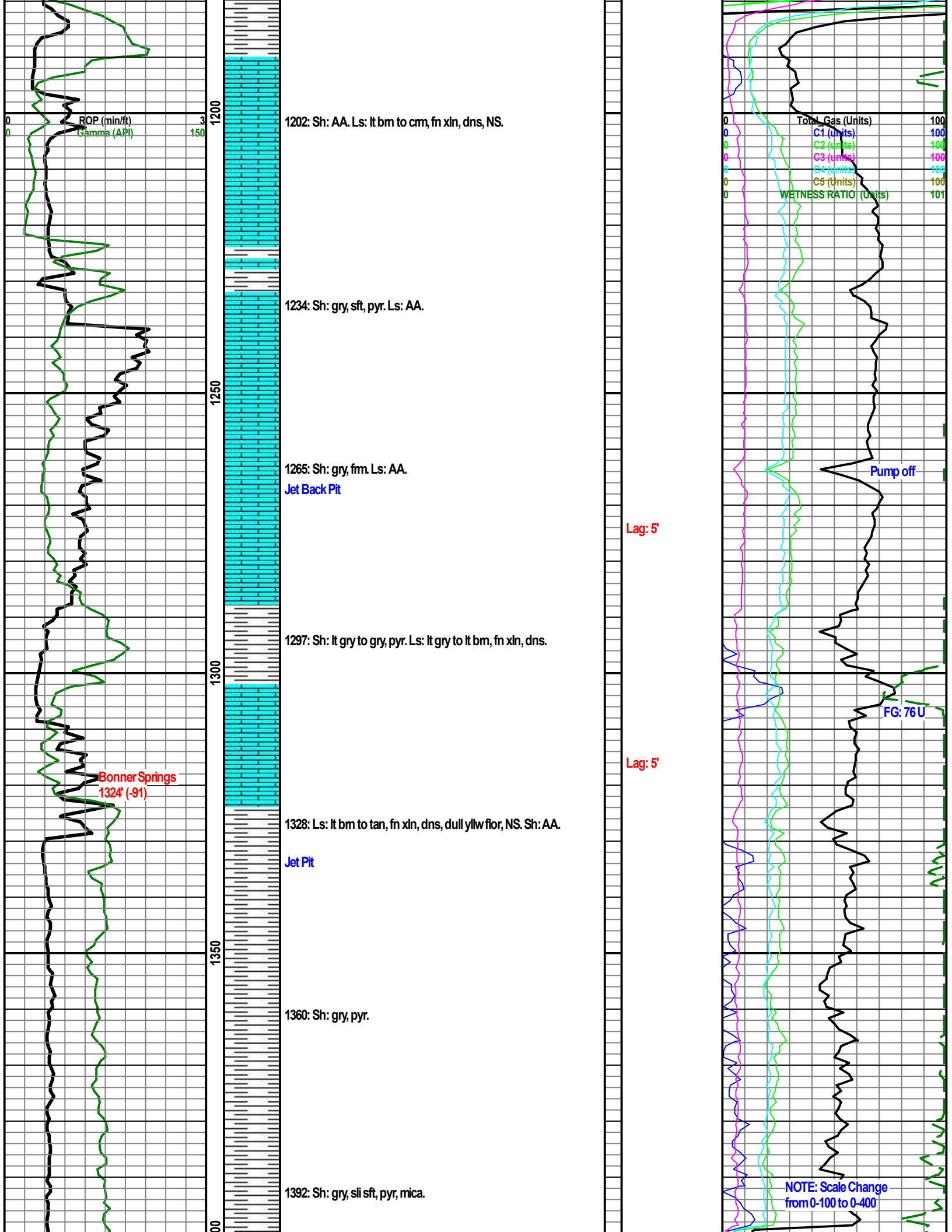
OIL SHOW

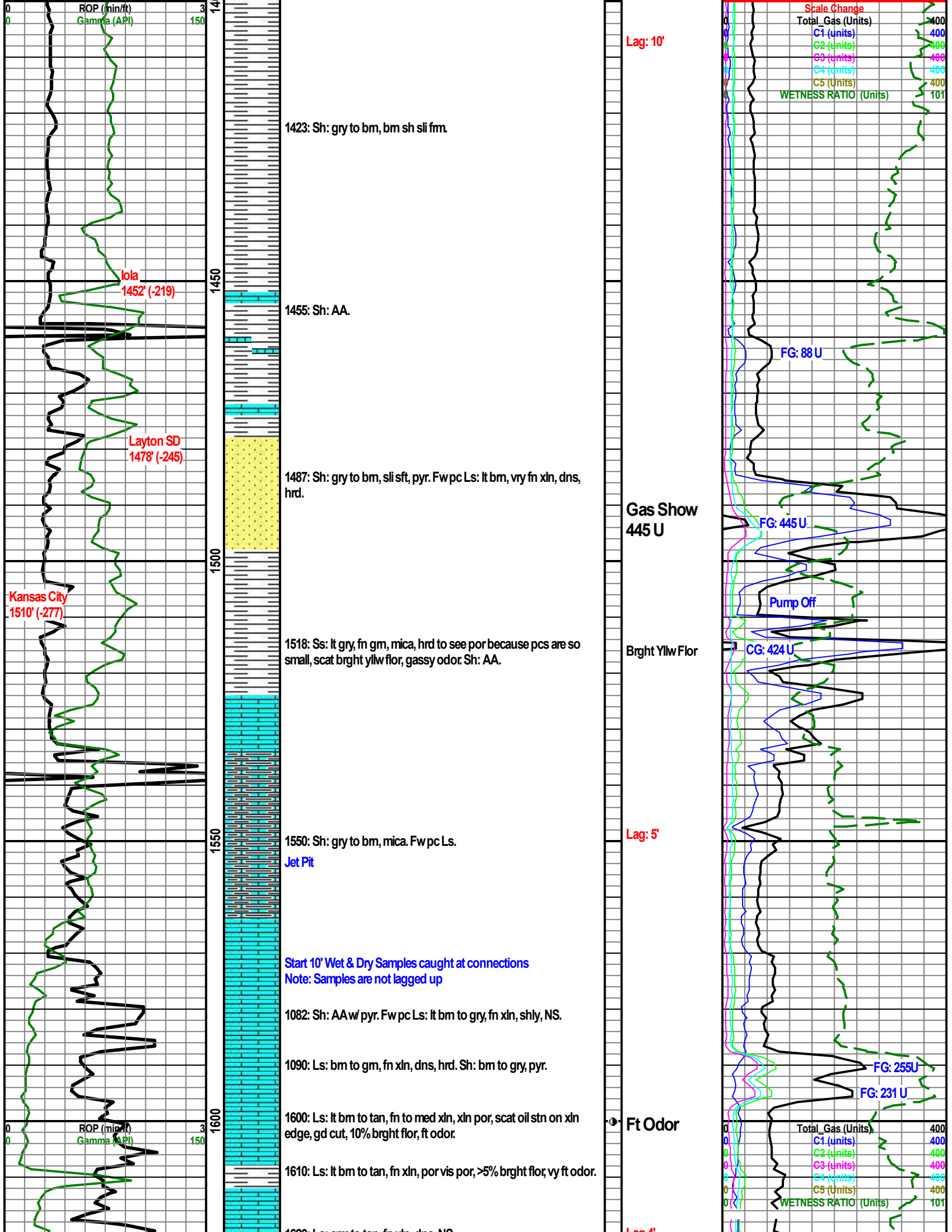
Even
Spotted
Ques
Dead

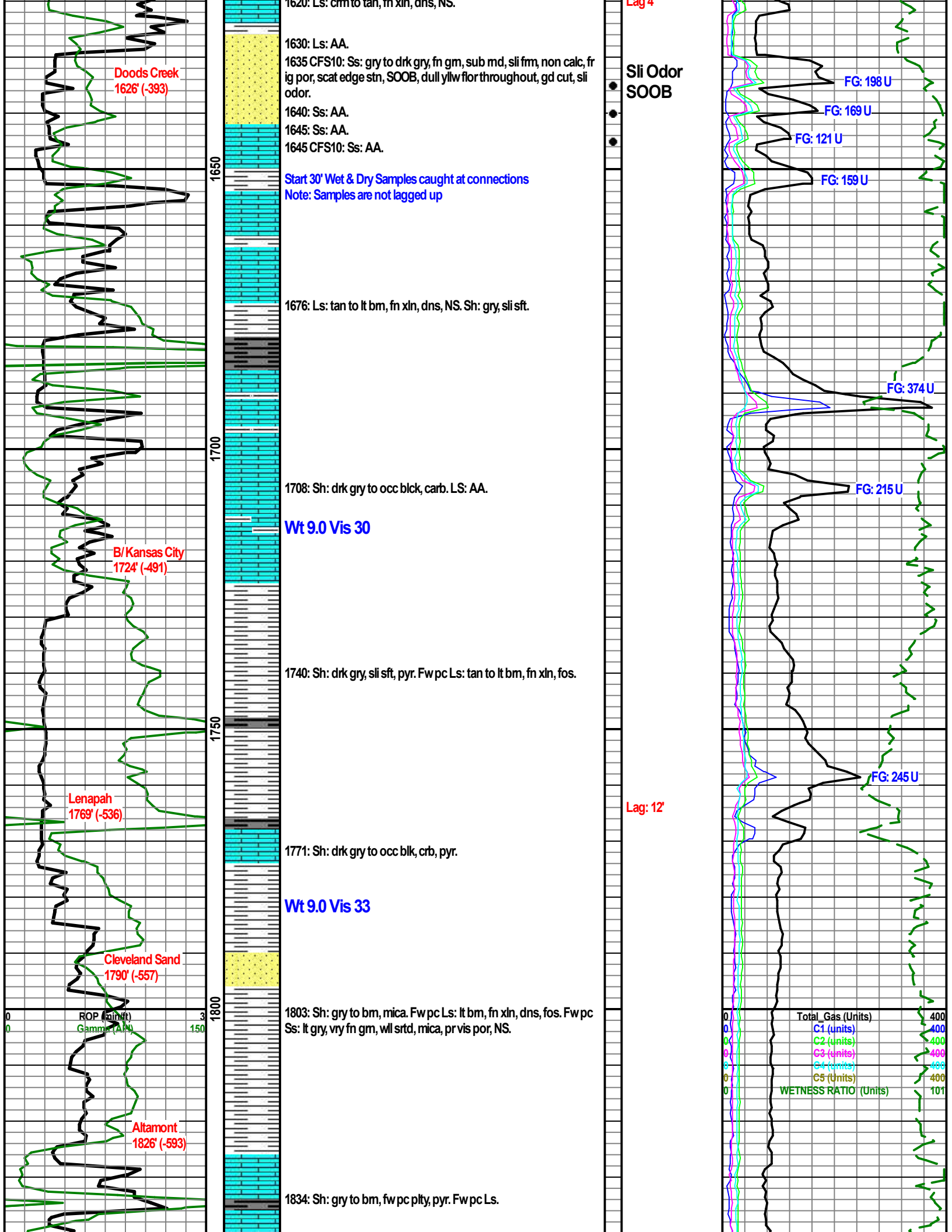

Penetration Rate
ROP (min/ft)
Gamma (API)
Lithology
TVD
Geological Descriptions
Oil Shows
Remarks
Total Gas, C1-C5
Total_Gas (Units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
C5 (Units)
WETNESS RATIO (Units)
0
ROP (min/ft) 3
Gamma (API) 150
Total_Gas (Units) 50
C1 (units) 50
C2 (units) 50
C3 (units) 50
C4 (units) 50
C5 (Units) 50
WETNESS RATIO (Units) 101
550
600
650
700
Midnight Depth on 6/24/20: 464'
Geo showed up on location @ 6:00AM on 6/24/20 - Depth: 955'
SOOB: Show Oil On Break
SFO: Show Free Oil
Note Pason went out for a couple of minutes.
Start 30' Wet & Dry Samples caught at connections
Note: Samples are not lagged up
Jet Pit
635: Sh: lt gry to gry, slty, pyr. Fw pc Ls: lt brn, fn to med xln, fos, mnrl flor, NS.
667: Sh: gry to brn, sli mica. Fw pc Ss: lt gry, fn gm, frm, NS.
Jet Back Pit
698: Ss: lt gry, fm gm, frm, sli mica, fr vis por, no flor, NS.
730: Sh: gry to drk gry.
TG: Total Gas
FG: Formation Gas
CG: Connection Gas
FG: 29 U

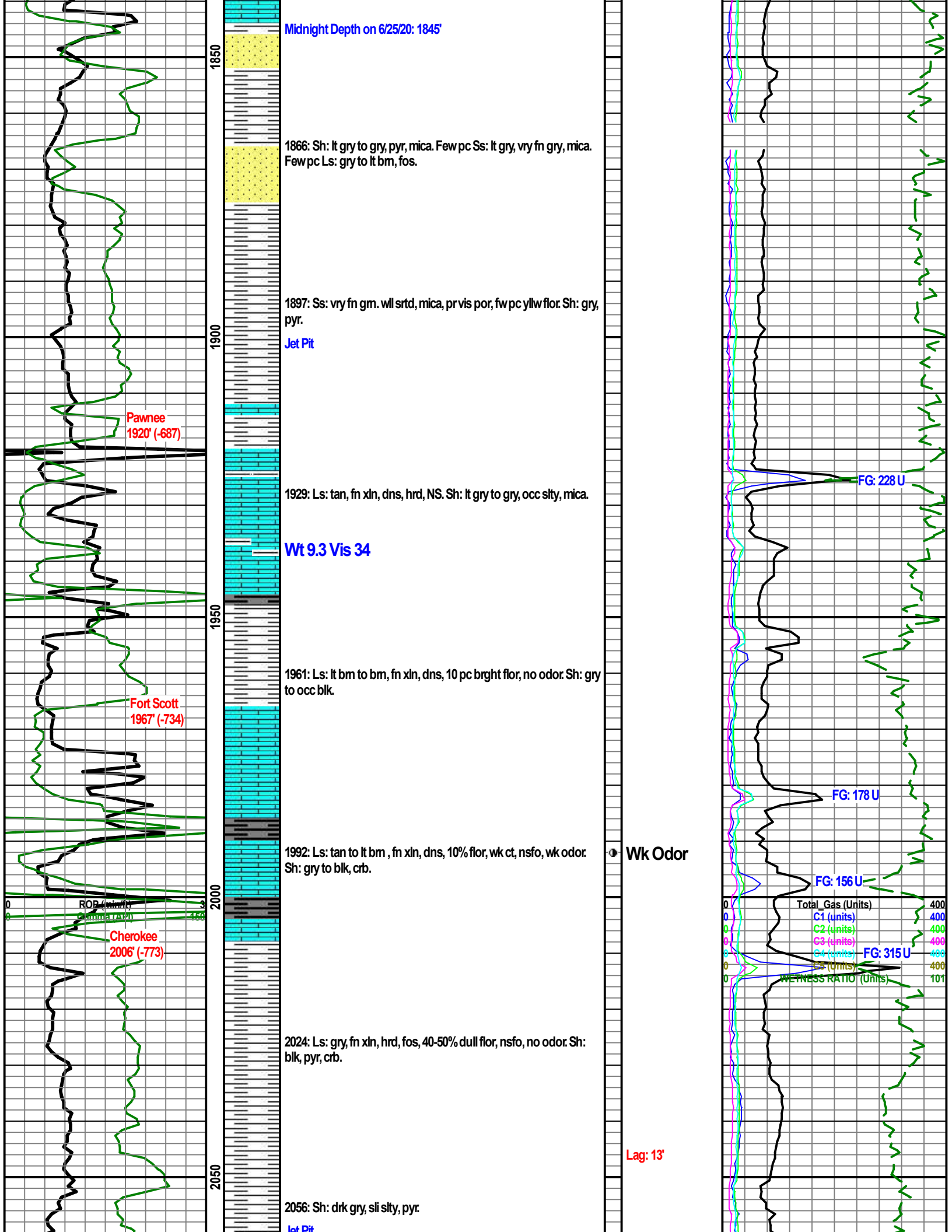

750
800
850
900
950
0
ROP (min/fit)
3
0
Gamma (API)
150
761: Sh: lt gry to gry, sli slty, pry.
793: Sh: brn, sli sft.
825: Sh: AA.
Jet Pit
856: Sh: gry to lt gry. Ls: tan to lt brn, fn xln, dns.
888: Sh: gry, mica. Fw pc Ls: gry to lt br, fn xln, sli chrty, fos.
919: Sh: lt gry to gry, mica.
951: Sh: gry to sm drk gry, sli mica. Fw pc Ss: lt gry, fn gm, sli frm, NS.
0
Total_Gas (Units)
50
C1 (units)
C2 (units)
C3 (units)
C4 (units)
C5 (Units)
WETNESS RATIO (Units)

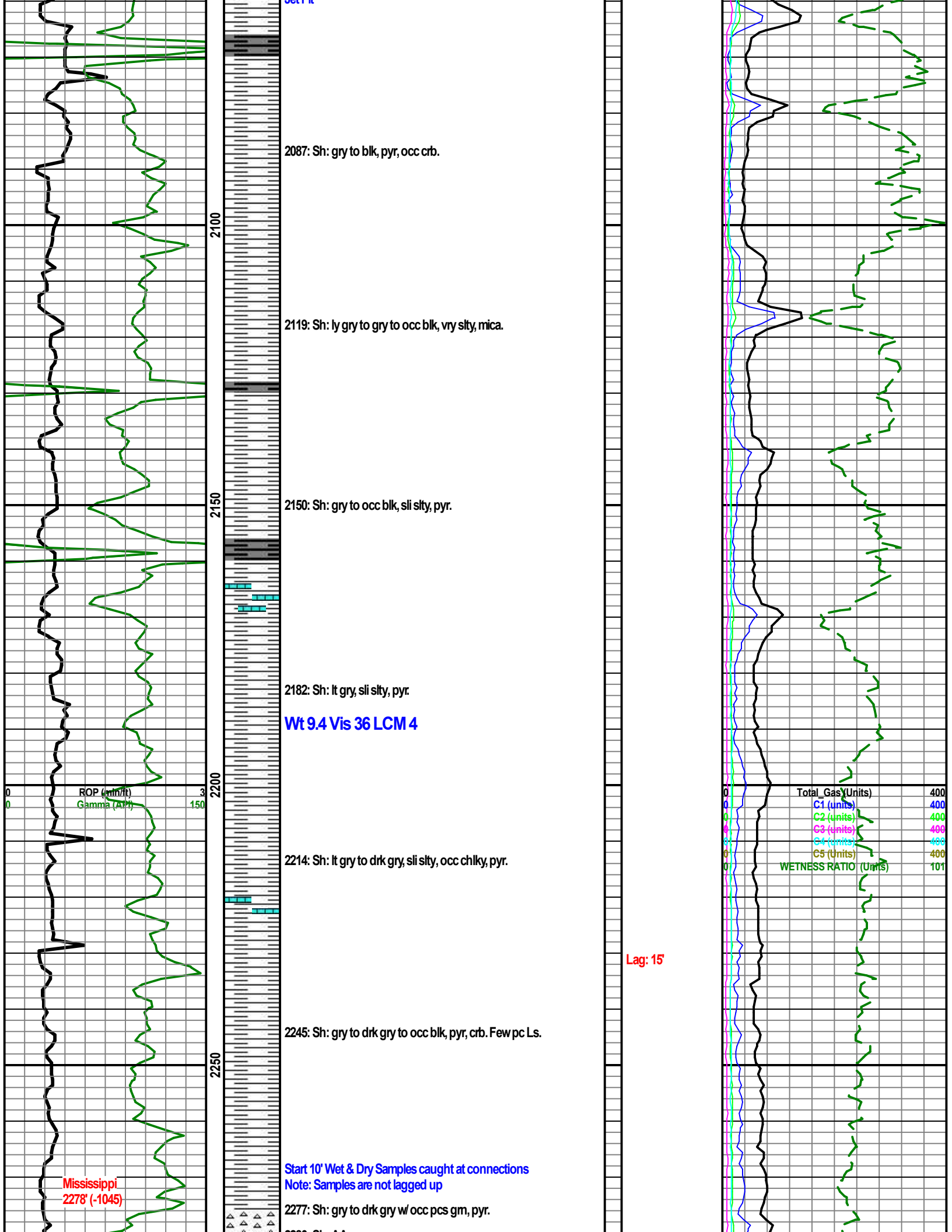

0
ROP (min/ft)
3
0
Gamma (API)
150
1000
1050
1100
1150
982: Sh: gry to lt gry, pyr.
1014: Sh: gry, sli mica.
latan
1022' (211)
1045: Sh: AA. Fw pc Ls: lt brn, fn xln, dns, sli chrty.
Lag: 10'
1077: Sh: gry, mica. Fw pc Ss: lt gry, vfn to fn gm, NS.
Jet Pit
Lansing
1090' (143)
1109: Ls: lt brn to tan, fn xln, dns, hrd, sli chrty, fos. mnrl flor, NS.
Lag: 7'
Drop Soap Stick
1139: Ls: crm to lt brn, fn xln, sli chrty, sli vggy, pr to fr vis por, scat oil stn on edge, SOOB, gd cut, 20% bright flor, sli odor. Sh: gry, mica.
Sli Odor
SOOB
1170: Ls: crm to tan, fn xln, dns, no vis por, NS. Sh: gry, sli sft.
0
Total_Gas (Units)
50
C1 (units)
C2 (units)
C3 (units)
C4 (units)
C5 (units)
WETNESS RATIO (Units)
NOTE: Scale Change
from 0-50 to 0-100
Scale Change
0
Total_Gas (Units)
100
C1 (units)
C2 (units)
C3 (units)
C4 (units)
C5 (units)
WETNESS RATIO (Units)
TG: 93 U
TG: 55 U
Note: The two large gas spikes are believed to be not real. Pason Gas C1 & Wetness ratio both said "Unkown Gas"
FG: 29 U
TG: 434 U

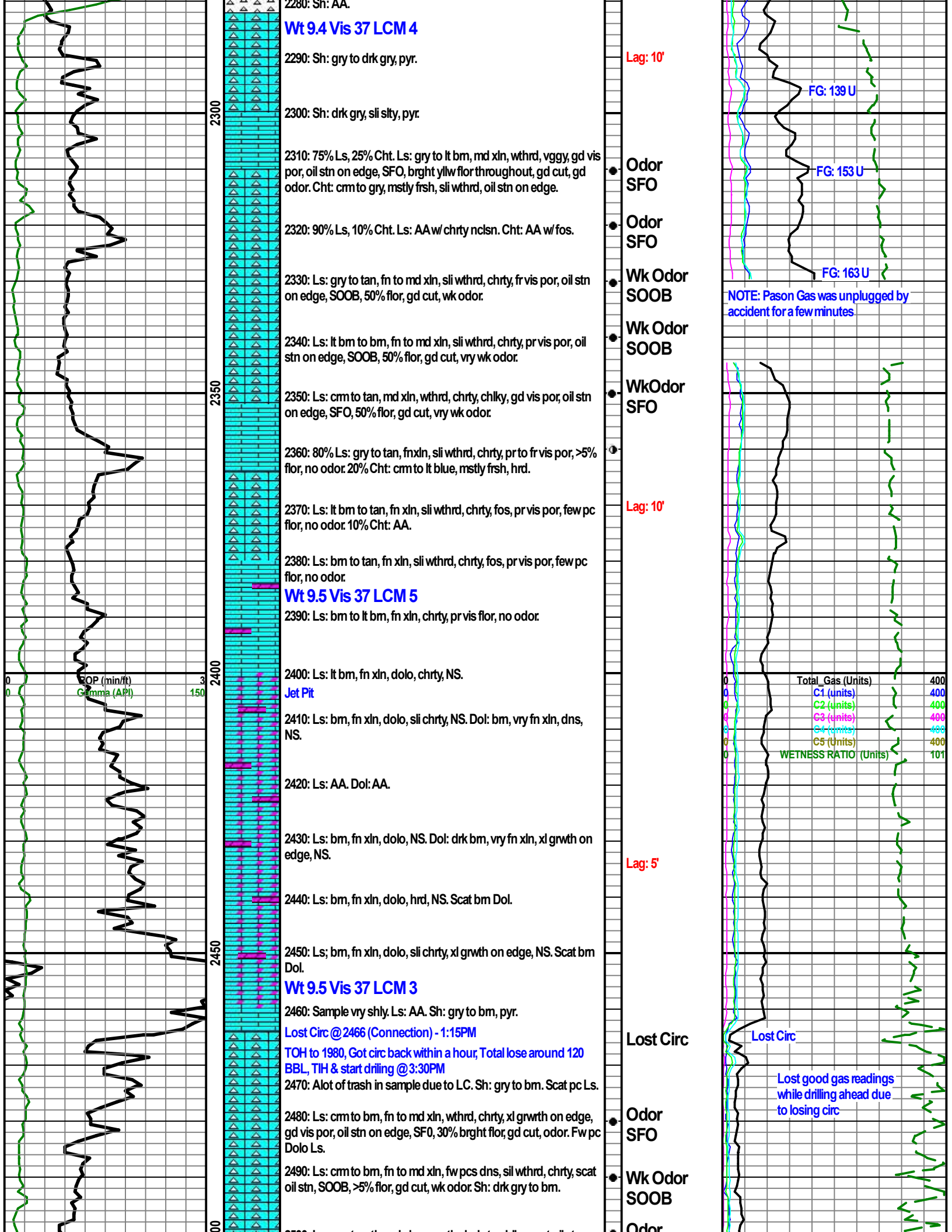

0
ROP (min/ft)
3
0
Gamma (API)
150
1200
1250
1300
1350
1400
1202: Sh: AA. Ls: lt brn to crm, fn xln, dns, NS.
1234: Sh: gry, sft, pyr. Ls: AA.
1265: Sh: gry, frm. Ls: AA.
Jet Back Pit
1297: Sh: lt gry to gry, pyr. Ls: lt gry to lt brn, fn xln, dns.
Bonner Springs
1324' (-91)
1328: Ls: lt brn to tan, fn xln, dns, dull yllw flor, NS. Sh: AA.
Jet Pit
1360: Sh: gry, pyr.
1392: Sh: gry, sli sft, pyr, mica.
Lag: 5'
Lag: 5'
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
0
WETNESS RATIO (Units)
101
Pump off
FG: 76 U
NOTE: Scale Change
from 0-100 to 0-400

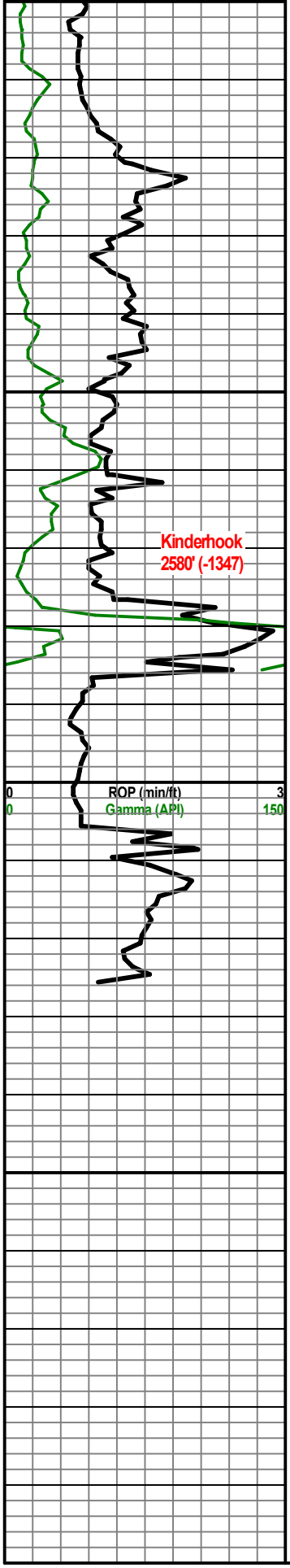

ROP (min/ft)
Gamma (API)
Iola
1452' (-219)
Layton SD
1478' (-245)
Kansas City
1510' (-277)
1450
1500
1550
1600
1423: Sh: gry to brn, brn sh sli frm.
1455: Sh: AA.
1487: Sh: gry to brn, sli sft, pyr. Fw pc Ls: lt brn, vry fn xln, dns, hrd.
1518: Ss: lt gry, fn gm, mica, hrd to see por because pcs are so small, scat brght yllw flor, gassy odor. Sh: AA.
1550: Sh: gry to brn, mica. Fw pc Ls.
Jet Pit
Start 10' Wet & Dry Samples caught at connections
Note: Samples are not lagged up
1082: Sh: AA w/ pyr. Fw pc Ls: lt brn to gry, fn xln, shly, NS.
1090: Ls: brn to gm, fn xln, dns, hrd. Sh: brn to gry, pyr.
1600: Ls: lt brn to tan, fn to med xln, xln por, scat oil stn on xln edge, gd cut, 10% brght flor, ft odor.
1610: Ls: lt brn to tan, fn xln, por vis por, >5% brght flor, vy ft odor.
Lag: 10'
Gas Show
445 U
Brght Yllw Flor
Lag: 5'
Ft Odor
Lag: 4'
Scale Change
Total_Gas (Units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
C5 (Units)
WETNESS RATIO (Units)
FG: 88 U
FG: 445 U
Pump Off
CG: 424 U
FG: 255U
FG: 231 U

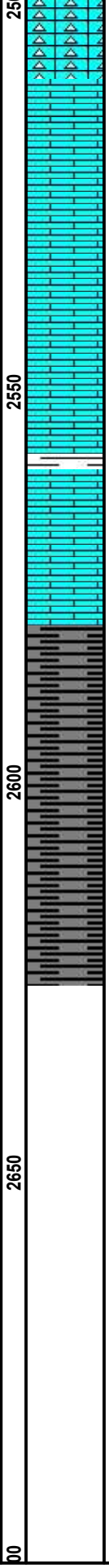

Doods Creek
1626' (-393)
B/ Kansas City
1724' (-491)
Lenapah
1769' (-536)
Cleveland Sand
1790' (-557)
Altamont
1826' (-593)
1650
1700
1750
1800
1620: Ls: crm to tan, fn xln, dns, NS.
1630: Ls: AA.
1635 CFS10: Ss: gry to drk gry, fn gm, sub rnd, sli frm, non calc, fr ig por, scat edge stn, SOOB, dull yllw flor throughout, gd cut, sli odor.
1640: Ss: AA.
1645: Ss: AA.
1645 CFS10: Ss: AA.
Start 30' Wet & Dry Samples caught at connections
Note: Samples are not lagged up
1676: Ls: tan to lt brn, fn xln, dns, NS. Sh: gry, sli sft.
1708: Sh: drk gry to occ blck, carb. LS: AA.
Wt 9.0 Vis 30
1740: Sh: drk gry, sli sft, pyr. Fw pc Ls: tan to lt brn, fn xln, fos.
1771: Sh: drk gry to occ blk, crb, pyr.
Wt 9.0 Vis 33
1803: Sh: gry to brn, mica. Fw pc Ls: lt brn, fn xln, dns, fos. Fw pc Ss: lt gry, vry fn grn, wll srtd, mica, pr vis por, NS.
1834: Sh: gry to brn, fw pc plty, pyr. Fw pc Ls.
Lag 4
Sli Odor
SOOB
Lag: 12'
FG: 198 U
FG: 169 U
FG: 121 U
FG: 159 U
FG: 374 U
FG: 215 U
FG: 245 U
0 ROP (min/ft) 3
0 Gamma (API) 150
0 Total_Gas (Units) 400
0 C1 (units) 400
0 C2 (units) 400
0 C3 (units) 400
0 C4 (units) 400
0 C5 (Units) 400
0 WETNESS RATIO (Units) 101


Midnight Depth on 6/25/20: 1845'
1866: Sh: lt gry to gry, pyr, mica. Few pc Ss: lt gry, vry fn gry, mica. Few pc Ls: gry to lt brn, fos.
1897: Ss: vry fn gm. wll srtd, mica, pr vis por, fw pc yllw flor. Sh: gry, pyr.
Jet Pit
Pawnee
1920' (-687)
1929: Ls: tan, fn xln, dns, hrd, NS. Sh: lt gry to gry, occ slty, mica.
Wt 9.3 Vis 34
1961: Ls: lt brn to brn, fn xln, dns, 10 pc brght flor, no odor. Sh: gry to occ blk.
Fort Scott
1967' (-734)
1992: Ls: tan to lt brn , fn xln, dns, 10% flor, wk ct, nsfo, wk odor. Sh: gry to blk, crb.
Wk Odor
ROP (min/ft)
Gamma (API)
Cherokee
2006' (-773)
2024: Ls: gry, fn xln, hrd, fos, 40-50% dull flor, nsfo, no odor. Sh: blk, pyr, crb.
Lag: 13'
2056: Sh: drk gry, sli slty, pyr.
Jet Pit
FG: 228 U
FG: 178 U
FG: 156 U
FG: 315 U
Total_Gas (Units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
C5 (units)
WETNESS RATIO (Units)
1850
1900
1950
2000
2050


2087: Sh: gry to blk, pyr, occ crb.
2119: Sh: ly gry to gry to occ blk, vry slty, mica.
2150: Sh: gry to occ blk, sli slty, pyr.
2182: Sh: lt gry, sli slty, pyr.
Wt 9.4 Vis 36 LCM 4
2214: Sh: lt gry to drk gry, sli slty, occ chlky, pyr.
Lag: 15'
2245: Sh: gry to drk gry to occ blk, pyr, crb. Few pc Ls.
Start 10' Wet & Dry Samples caught at connections
Note: Samples are not lagged up
2277: Sh: gry to drk gry w/ occ pcs gm, pyr.
Mississippi
2278' (-1045)
2100
2150
2200
2250
0 ROP (min/ft) 3
0 Gamma (API) 150
0 Total_Gas (Units) 400
0 C1 (units) 400
0 C2 (units) 400
0 C3 (units) 400
0 C4 (units) 400
0 C5 (Units) 400
0 WETNESS RATIO (Units) 101


2280: Sh: AA.
Wt 9.4 Vis 37 LCM 4
2290: Sh: gry to drk gry, pyr.
2300: Sh: drk gry, sli slty, pyr.
2310: 75% Ls, 25% Cht. Ls: gry to lt brn, md xln, wthrd, vggy, gd vis por, oil stn on edge, SFO, brght yllw flor throughout, gd cut, gd odor. Cht: crm to gry, mstly frsh, sli wthrd, oil stn on edge.
2320: 90% Ls, 10% Cht. Ls: AA w/ chrty nclsn. Cht: AA w/ fos.
2330: Ls: gry to tan, fn to md xln, sli wthrd, chrty, fr vis por, oil stn on edge, SOOB, 50% flor, gd cut, wk odor.
2340: Ls: lt brn to brn, fn to md xln, sli wthrd, chrty, pr vis por, oil stn on edge, SOOB, 50% flor, gd cut, vry wk odor.
2350: Ls: crm to tan, md xln, wthrd, chrty, chlky, gd vis por, oil stn on edge, SFO, 50% flor, gd cut, vry wk odor.
2360: 80% Ls: gry to tan, fn xln, sli wthrd, chrty, pr to fr vis por, >5% flor, no odor. 20% Cht: crm to lt blue, mstly frsh, hrd.
2370: Ls: lt brn to tan, fn xln, sli wthrd, chrty, fos, pr vis por, few pc flor, no odor. 10% Cht: AA.
2380: Ls: brn to tan, fn xln, sli wthrd, chrty, fos, pr vis por, few pc flor, no odor.
Wt 9.5 Vis 37 LCM 5
2390: Ls: brn to lt brn, fn xln, chrty, pr vis flor, no odor.
2400: Ls: lt brn, fn xln, dolo, chrty, NS.
Jet Pit
2410: Ls: brn, fn xln, dolo, sli chrty, NS. Dol: brn, vry fn xln, dns, NS.
2420: Ls: AA. Dol: AA.
2430: Ls: brn, fn xln, dolo, NS. Dol: drk brn, vry fn xln, xl grwth on edge, NS.
2440: Ls: brn, fn xln, dolo, hrd, NS. Scat brn Dol.
2450: Ls; brn, fn xln, dolo, sli chrty, xl grwth on edge, NS. Scat brn Dol.
Wt 9.5 Vis 37 LCM 3
2460: Sample vry shly. Ls: AA. Sh: gry to brn, pyr.
Lost Circ @ 2466 (Connection) - 1:15PM
TOH to 1980, Got circ back within a hour, Total lose around 120 BBL, TIH & start driling @ 3:30PM
2470: Alot of trash in sample due to LC. Sh: gry to brn. Scat pc Ls.
2480: Ls: crm to brn, fn to md xln, wthrd, chrty, xl grwrth on edge, gd vis por, oil stn on edge, SF0, 30% brght flor, gd cut, odor. Fw pc Dolo Ls.
2490: Ls: crm to brn, fn to md xln, fw pcs dns, sil wthrd, chrty, scat oil stn, SOOB, >5% flor, gd cut, wk odor. Sh: drk gry to brn.
2300
2350
2400
2450
Lag: 10'
Odor SFO
Odor SFO
Wk Odor SOOB
Wk Odor SOOB
WkOdor SFO
Lag: 10'
Lag: 5'
Lost Circ
Odor SFO
Wk Odor SOOB
FG: 139 U
FG: 153 U
FG: 163 U
NOTE: Pason Gas was unplugged by accident for a few minutes
Lost Circ
Lost good gas readings while drilling ahead due to losing circ
0 ROP (min/ft) 3
0 Gamma (API) 150
0 Total_Gas (Units) 400
0 C1 (units) 400
0 C2 (units) 400
0 C3 (units) 400
0 C4 (units) 400
0 C5 (units) 400
0 WETNESS RATIO (Units) 101





2500: Ls: crm to wth, md xln, vry wthrd, chrty, chlky, scat oil stn, SFO, 20% flor, gd ct, odor.

2510: Ls: crm to wht, md xln, vry wthrd, vry chlky, chrty, oil stn on edge, SFO, 40% flor, gd cut, odor.

Start 5' Wet & Dry Samples caught at connections

Note: Samples are not lagged up

2525: Ls: AA, SFO, oil stn on edge, W/ 20% flor, gd cut, wk odor.

2530: Ls: mstly wht to lt gry, chrty, sli chlky, wthrd, SOOB, 100% dull flor, gd cut, vry wk odor.

2535: Ls: AA w/ vry chlky, wthrd, scat oil stn, 75% dull flor, no odor.

2540: Ls: wht to lt gry, chrty, chlky, sli wthrd, fw pc flor, no odor.

2545: Ls: mstly wht to lt gry, chrty, sli wthrd, fw pc flor, no odor.

2550: Ls: AA.

2555: Ls: mstly wht, chrty, hgly wthrd, chlky, fw pc flor, no odor.

2560: Sample vry chlky and rocks are small. Ls: wht, vry chlky, chrty, no odor.

2565: Ls: AA.

2570: Ls: wht to lt gry, chrty, sli chlky, no odor.

2575: Ls: AA to smaple 2560.

2578 CFS10: Ls: gry, fn xln, dns, hrd, chrty, NS.

2585: Ls: AA.

2590: LS: crm to lt gry, fn xln, dns, sli chrty, NS.

2590 CFS10: Ls: AA. Fw pc Sh: blk, crb.

2590 CFS 20: Sh: blk, crb, pyr, sh odor.

2608 CFS10: Sh: gry to blk, crb, pyr, sh odor.

2608 CFS20: Sh: AA.

2615: Sh: blk, crb, pyr, sh odor.

2626 TD: Sh: blk, crb, pyr, sh odor.

2626 CFS 15: Sh: AA.

2626 CFS 30: Sh: AA.

2626 CFS 45: Sh: AA.

RTD: 2626' @8:50PM on 6/25/20

LTD: 2620' @3:00AM on 6/26/20

Circulated for 45 min before short trip. Short tripped to 1162' & back down & circulated for 1 hr before tripping out to log.

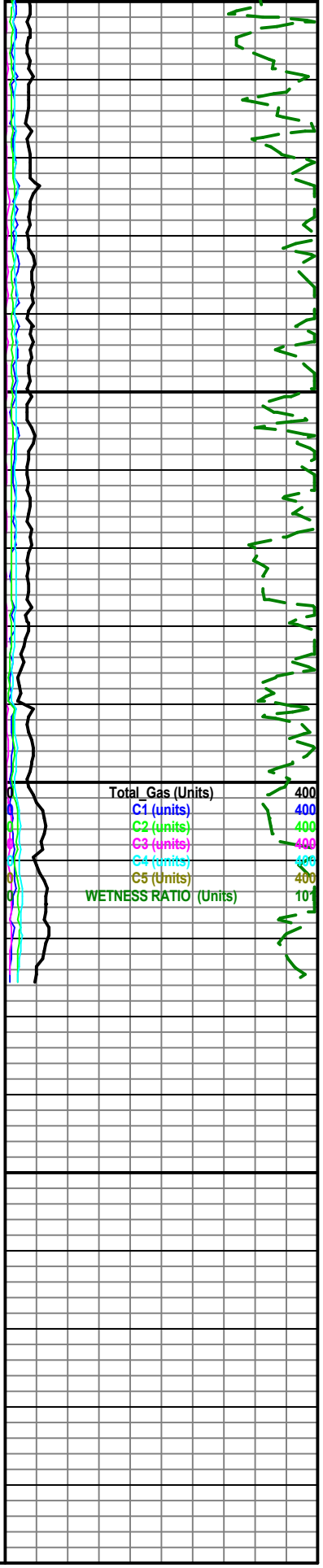
Note: Continuously lost a little mud till TD while drilling ahead after lost circ.

SFO

Odor
SFO

Wk Odor
SFO

Wk Odor
SOOB



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

ELITE
CEMENTING & ACID SERVICE, LLC

Cement or Acid Field Report
Ticket No. **5085**
Foreman Kevin McCoy
Camp Eureka

API # 15-049-22622

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State
6-26-20	1028	Markley #1	25	30S	9E	Elk	Ks

Customer: Lone Wolf O.L & Gas Co. LLC
Mailing Address: Box 241
City: Moline | State: Ks | Zip Code: 67353

Safety Meeting: KM AM JV SM

Unit #	Driver	Unit #	Driver
104	Alan M.		
112	Josh V.		
145	Steve M.		

Job Type Longstring | Hole Depth 2625' KB | Slurry Vol. 66 BBL | Tubing
Casing Depth 2608' G.L. | Hole Size 7 7/8" | Slurry Wt. 13.6 # | Drill Pipe
Casing Size & Wt. 5½ 14#, 15.50# | Cement Left in Casing 0' | Water Gal/SK | Other
Displacement 63.4 BBL | Displacement PSI 1000 | Bump Plug to 1500 PSI | BPM

Remarks: Safety Meeting: 5½ 14#/15.50# Casing Set @ 2608' G.L. Rig up to 5½ Casing. Break Circulation w/ 5 BBL fresh water. Mixed 200 SKS THICK Set Cement w/ 5# Kol-Seal/SK, 2# PhenoSeal/SK @ 13.6 #/GAL Yield 1.85 = 66 BBL Slurry. Wash out Pump & Lines. Shut down, Release Latch down Plug. Displace Plug to Seat w/ 63.4 BBL fresh water. Final Pumping Pressure 1000 PSI. Bump Plug to 1500 PSI. Wait 2 mins. Release Pressure. Float & Plug Held. Job Complete. Rig down.
Good Circulation while Cementing.

Centralizers on #1, 2, 6, 7, 8, 22, 23, 24. Baskets on Top of #11, 25

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C 102	1	Pump Charge	1100.00	1100.00
C 107	30	Mileage	4.20	126.00
C 201	200 SKS	THICK Set Cement	20.50	4100.00
C 207	1000 #	Kol-Seal 5#/SK	.47 #	470.00
C 208	400 #	PhenoSeal 2#/SK	1.30 #	520.00
C 211	50 #	CFL-115	11.00 #	550.00
C 108 B	11.0 Tons	Ton Mileage 30 miles	1.40	462.00
C 113	3 Hrs	80 BBL Vac Truck	90.00	270.00
C 224	3300 gals	City water	10.00/1000	33.00
C 661	1	5½ AFU Float Shoe	309.00	309.00
C 421	1	5½ Latch down Plug	242.00	242.00
C 604	2	5½ Cement Baskets	236.00	472.00
C 504	8	5½ x 7⅞ Centralizers	50.00	400.00
			Sub Total	9054.00
		THANK You	Less 5%	479.31
		7.5%	Sales Tax	532.20
			Total	9,106.89

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

Cement or Acid Field Report
Ticket No. **5126**
Foreman David Gardner
Camp Eureka

API # 15-049-22622

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State
7-21-20	1028	Markley #1	25	30 S.	9 E.	Elk	KS

Customer	Safety Meeting	Unit #	Driver	Unit #	Driver
Lone Wolf Oil + Gas Co. LLC	DG JH JV SM	105	Jason		
Mailing Address: Box 241		110	Josh		
City: Moline / State: KS / Zip Code: 67353		145	Steve		

Job Type 1" Top outside — Hole Depth 2625' K.B. — Slurry Vol. — Tubing 1" Hydril
Casing Depth 2608' G.L. — 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. Run 1" Hydril down 5 1/2" annulus & tag cement @ 1190'. Wash hole clean w/ 50 Bbl fresh water. Mixed 160/40 Pozmix Cement w/ 4% Gel until good cement returns to surface. Shut down. Pull 1" Tubing out. Run 1 Jt 1" in mouse hole & Rat hole & fill w/ cement. Total cement = 1160 SKS. Job complete. Rig down.

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C104	1	Pump Charge	1100.00	1100.00
C107	30	Mileage	4.20	126.00
C203	1160 SKS	60/40 Pozmix Cement	13.40	2144.00
C206	550#	Gel	.21	115.50
C108A	16.88 Tons	Ton Mileage - Bulk Truck	m/c	365.00
C113	4 HRS	80 Bbl Vac Truck	90.00 /HR	360.00
C224	3300 Gals	City Water	10.00 /1000 gals	33.00
C118	1	1" Hydril Rental	m/c	150.00
		Thank You	Sub Total	4,393.50
			Less 5%	<219.83>
		7.5 %	Sales Tax	183.18
			Total	$4347.85

Authorization _____ **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. **5109**
Foreman David Gardner
Camp Eureka

API # 15-049-22622

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State
6-23-20	1028	Markley #1	25	30 S.	9 E.	Elk	KS

Customer	Safety Meeting	Unit #	Driver	Unit #	Driver
Lone Wolf Oil & Gas Co. LLC	DG ZA SV	102	Zevi		
Mailing Address: Box 241		110	Josh		
City: Moline / State: KS / Zip Code: 67353					

Job Type Surface — Hole Depth 58' — Slurry Vol. 14 Bbl — Tubing
Casing Depth 42.85' — Hole Size 12¼" — Slurry Wt. 15# — Drill Pipe
Casing Size & Wt. 8⅝" — Cement Left in Casing 10' +/- — Water Gal/SK 6.5 — Other
Displacement 3 Bbl — Displacement PSI — Bump Plug to — BPM

Remarks: Safety Meeting. Rig up to 8⅝" casing. Break circulation w/ 5 Bbl fresh water. Mixed 95 SKS Class "A" Cement w/ 3% Calc, 2% Gel, & ¼# Flosea1/SK @ 15#/gal, yield 1.42 = 14 Bbl slurry. Displace w/ 3 Bbl fresh water. Shut down. Close casing in. Good cement returns to surface = 4 Bbl slurry to pit. Job complete. Rig down.

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C101	1	Pump Charge	890.00	890.00
C107	30	Mileage	4.20	126.00
C200	95 SKS	Class A Cement	15.75	366.25
C205	155#	Calc 3%	.63	97.65
C206	105#	Gel 2%	.21	22.05
C209	15#	Flosea1 ¼#/SK	2.35	35.25
C108A	2.58 Tons	Ton Mileage - Bulk Truck	M/C	365.00
		Thank You		
			Sub Total	2,402.20
			Less 5%	123.94
		7.5%	Sales Tax	76.59
			Total	2,354.85

Authorization by Rob Wolf — 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.