

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 # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

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 #: \_\_\_\_\_

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27  NAD83  WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ 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: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

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: \_\_\_\_\_

Confidential Release Date: \_\_\_\_\_

Wireline Log Received  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**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 <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> 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

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> 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:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i>	PRODUCTION INTERVAL: Top _____ Bottom _____
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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810 E 7<sup>TH</sup>  
 PO Box 92  
 EUREKA, KS 67045  
 (620) 583-5561



**Cement or Acid Field Report**  
 Ticket No. **4503**  
 Foreman Russell McElroy  
 Camp EUREKA

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State	
4-27-19	1028	Schule # 2	35	30	9	EIK	KS	
Customer LONE WOLF OIL + GAS CO. LLC			Unit #		Driver		Unit #	Driver
Mailing Address Box 241			105		JASON			
City Moline			115		CALEB			
State KS			135		RUSS			
Zip Code 67353								

Job Type SURFACE Hole Depth 54' Slurry Vol. \_\_\_\_\_ Tubing \_\_\_\_\_  
 Casing Depth 52 (40.3 G.L.) Hole Size 12 1/4 Slurry Wt. \_\_\_\_\_ Drill Pipe \_\_\_\_\_  
 Casing Size & Wt. 8 5/8 Cement Left in Casing 10' Water Gal/SK \_\_\_\_\_ Other \_\_\_\_\_  
 Displacement 2 1/2 bbl Displacement PSI \_\_\_\_\_ Bump Plug to \_\_\_\_\_ BPM 5

Remarks: Safety meeting + Job Procedure, Rig to 898 Break Circulation w/  
5 Bbl water mix + pump 35 SK's Reg w/ 35' casing Displace w/ 2.5 Bbl.  
Good cement returns, close casing in. TEAR DOWN.  
 Thank you  
 Russell McElroy

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C-101	1	Pump Charge	890.00	890.00
C-107	30	Mileage	4.20	126.00
C-200	35	SK's CLASS CEMENT	15.75	551.25
C-205	100 #	LA 12 = 3%	.63	63.00
C-206	65 #	G-1 = 2%	.21	13.65
C-209	10 #	Flocote	2.35	23.50
C-108A	1,645	Tax mileage	MIC	365.00
			<b>SUBTOTAL</b>	<b>2032.40</b>
			<b>- 5%</b>	<b>&lt;104.07&gt;</b>
			<b>7.5%</b>	<b>48.86</b>
			<b>Sales Tax</b>	<b>48.86</b>
<b>Authorization</b> <u>By JUD GULICK</u>			<b>Title</b> <u>Rig Foreman</u>	<b>Total</b> <u>1971.19</u>

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



**Cement or Acid Field Report**  
 Ticket No. **4451**  
 Foreman David Gardner  
 Camp Eureka

API# 15-049-22620

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State	
4-30-19	1028	Schult #2	35	30 S.	9E	Elk	KS	
Customer <u>Lone Wolf Oil &amp; Gas Co. LLC</u>			Safety Meeting DE SH CG SWI		Unit #	Driver	Unit #	Driver
Mailing Address <u>Box 241</u>					<u>105</u>	<u>Jasen</u>		
City <u>Moline</u>					<u>112</u>	<u>Calib</u>		
State <u>KS</u>					<u>145</u>	<u>Steve</u>		
Zip Code <u>67353</u>								

Job Type Logging Hole Depth 2560' K.B. Slurry Vol. 66 Bbl Tubing \_\_\_\_\_  
 Casing Depth 2552.33' Hole Size 7 7/8" Slurry Wt. 13.6# Drill Pipe \_\_\_\_\_  
 Casing Size & Wt. 5 1/2" 14" Cement Left in Casing 2' 5.5" Water Gal/SK 9.0 Other \_\_\_\_\_  
 Displacement 63.75 Bbl Displacement PSI 1100 Bump Plug to 1500# BPM 5

Remarks: Safety Meeting. 5 1/2" casing set @ 2552.33'. 5 1/2" AFU Flapper Valve Insert in top of 2' shoe joint in bottom. Rig up to 5 1/2" casing. Break circulation w/ 15 Bbl fresh water. Mixed 200 SKS Thick Set Cement w/ 5# Kolseal/sk, 2# Phenoseal/sk @ 13.6#/gal, yield 1.85 = 66 Bbl Slurry. Wash out pump & lines. Shut down. Release 5 1/2" Latch Down Plug. Displace plug to seat w/ 63.75 Bbl fresh water. Final pumping pressure of 1100 PSI. Bump plug to 1500 PSI. Good circulation @ all times while cementing. Release pressure. Float & plug held good. Job complete. Rig down.

Centralizers in #4, 6, 8, 21, 23, 35, 36. Baskets in #10 & 19

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C102	1	Pump Charge	1100.00	1100.00
C107	30	Mileage	4.20	126.00
C201	200 SKS	Thick Set Cement	70.50	4100.00
C207	1000#	Kolseal @ 5#/sk	.47	470.00
C208	400#	Phenoseal @ 2#/sk	1.30	520.00
C108B	11 Tons	Ten Mileage - Bulk Truck	1.40	462.00
C113	3 HRS	30 Bbl Van Truck	90.00 / HR	270.00
C224	3300 Gals	City Water	10.00 / 1000 Gals	33.00
C691	1	5 1/2" Guide Shoe	175.00	175.00
C703	1	5 1/2" AFU Flapper Valve Insert	152.00	152.00
C504	7	5 1/2" Centralizer	50.00	350.00
C604	2	5 1/2" Cement Basket	236.00	472.00
C421	1	5 1/2" Latch Down Plug	242.00	242.00
			Sub Total	8472.00
			Less 5%	448.03
			Sales Tax 7.5%	488.55
Authorization by <u>Rob Wolf</u> Title <u>owner</u>			Total	<u>8512.52</u>

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



**Cement or Acid Field Report**  
 Ticket No. **4456**  
 Foreman David Gardner  
 Camp Eureka

API # 15-049-22620

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State
5-15-19	1028	Schule #2	35	30 S	9 E	Elk	KS
Customer			Unit #	Driver	Unit #	Driver	
Lone Wolf Oil & Gas Co. LLC			105	Jason			
Mailing Address			114	Zevi			
Box 241							
City	State	Zip Code					
Moline	KS	67353					

Job Type 1" Top Outside Hole Depth 2560' K.B. Slurry Vol. 30 Bbl Tubing 1"  
 Casing Depth 2552.33' Hole Size 7 7/8" Slurry Wt. 14" Drill Pipe \_\_\_\_\_  
 Casing Size & Wt. 5 1/2" 14" Cement Left in Casing \_\_\_\_\_ Water Gal/SK \_\_\_\_\_ Other \_\_\_\_\_  
 Displacement \_\_\_\_\_ Displacement PSI \_\_\_\_\_ Bump Plug to \_\_\_\_\_ BPM \_\_\_\_\_

Remarks: Safety Meeting. Rig up to 1" Tubing. Wash down 1" Tubing to 830' in 5 1/2" annulus w/ fresh water. Mixed 120 sks 100/40 Pozmix Cement w/ 4% Gel @ 19"/gal, yield 1.40 = 30 Bbl slurry. Good cement returns to surface. Shut down. Rig pulled 1" Tubing out. Top off annulus & plugged Rat & Phase holes. 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
C203	120 sks	100/40 Pozmix Cement	13.40	1608.00
C206	410#	Gel @ 4%	.21	86.10
C108A	5.16 Tons	Ton Mileage - Bulk Truck	m/c	365.00
C118	1	1" Hydril Rental	m/c	150.00
<u>Thank You</u>				
			Sub Total	3,225.10
			Less 5 1/2%	168.17
			Sales Tax	128.31
Authorization _____ Title _____			Total	3,195.24

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## LOCATION AND LEGALS DATA

### WellSight Systems

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

Well Name: Schule 2  
API: 15-049-22620-00-00  
Location: 1580 FSL, 380 FEL, 35-30S-9E  
License Number: 31119  
Spud Date: 04/27/2019  
Surface Coordinates: -96.38133  
37.39326  
Region: Elk  
Drilling Completed: 04/29/2019  
Bottom Hole Coordinates:  
Ground Elevation (ft): 1298' K.B. Elevation (ft): 1307'  
Logged Interval (ft): Surface To: 2556' Total Depth (ft): 2561'  
Formation: Mississippi  
Type of Drilling Fluid: Water Base Mud

Printed by MudLog from WellSight Systems 1-800-447-1534 [www.WellSight.com](http://www.WellSight.com)

### OPERATOR

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

### GEOLOGIST

Name: Brandon Wolfe  
Company:  
Address: 634 N Biddle  
Moline, Kansas 67353

## Formation


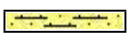

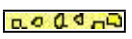





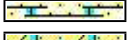




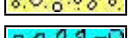



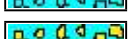


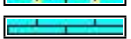
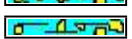



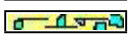



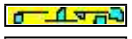











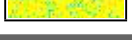



## Log Tops

Stalnaker	1116 (191)
Lansing	1163 (144)
Bonner Springs	1410 (103)
Iola	1552 (-245)
Layton	1557 (-250)
Kansas City	1602 (-295)
B/ Kansas City	1816 (-507)
Lenapah	1860 (-553)
Cleveland Sd	1881 (-574)
Altmont	1916 (-609)
Pawnee	2010 (-703)
Fort Scott	2055 (-748)
Cherokee	2097 (-790)
Mississippi	2367 (-1060)

## COMMENTS

5 1/2" Casing was set to test MISS section

## 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	 Cement	 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
- Breclfrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr

- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff

- Sandy ls str
- Shale
- Siltstone
- Sandstone

**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

**TEXTURE**

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

**OIL SHOW**

- Even
- Spotted
- Ques
- Dead

New Track	Lithology	Depth	<p style="text-align: center;">Penetration Rate</p> <p style="text-align: center;">ROP (min/ft) <span style="color: red;">—</span></p>	Geological Descriptions	Oil Shows	ODOR
		<p>1050</p> <p>1100</p>		<p style="color: blue; font-weight: bold;">MUD UP @1050</p> <p style="color: blue; font-weight: bold;">START 30' WET &amp; DRY SAMPLES SAMPLES CAUGHT AT CONECTIONS &amp; LAGED UP</p> <p style="color: blue; font-weight: bold;">DRAWWORKS CHAIN BROKE @1108'</p> <p style="color: red; font-weight: bold;">STALNAKER 1116 (191)</p> <p>1138: SS, WHT/CRM, FNGRN, RNDD, GD IG POR, EDGE STN, DULL YLW FLR, GD CUT, GSFQ, SAMPLE CATCHER NOTED OIL SCHEME WHILE CLEANING SAMPLES, GSY ODOR</p>	<p>●</p>	<p><b>ODOR</b></p>
				<p>1138-2.bmp</p>		

1150  
1200  
1250  
1300  
1350



1170: LM, TAN, FNXLN, PYR; SH, GRY, SLTY, NS, NO ODOR

LANSING  
1163 (144)

33VIS 9.0WT

1201: LS, BRWTAN, FSLF, CHRTY, FNXLN, WTHRD, NS

ROP (min/ft)

1234: LS, BRN/TAN/GRY MOTT, FSLF, OOLC, WTHRD, NS

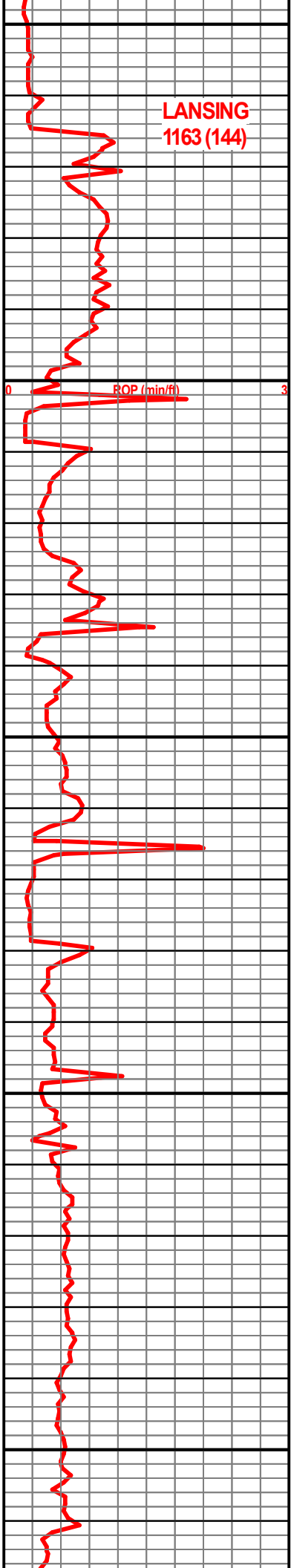
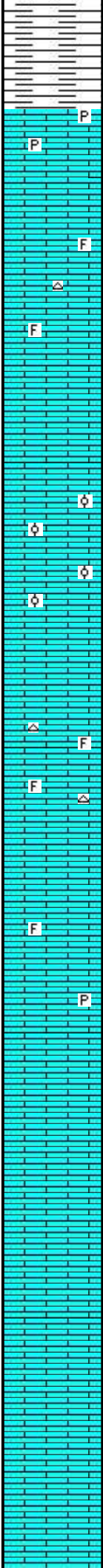
1265: LS, GRY/CRM, DNS, FNXLN, FSLF, CHRTY, 50% FLR, GD CT, NSFO, NO ODOR

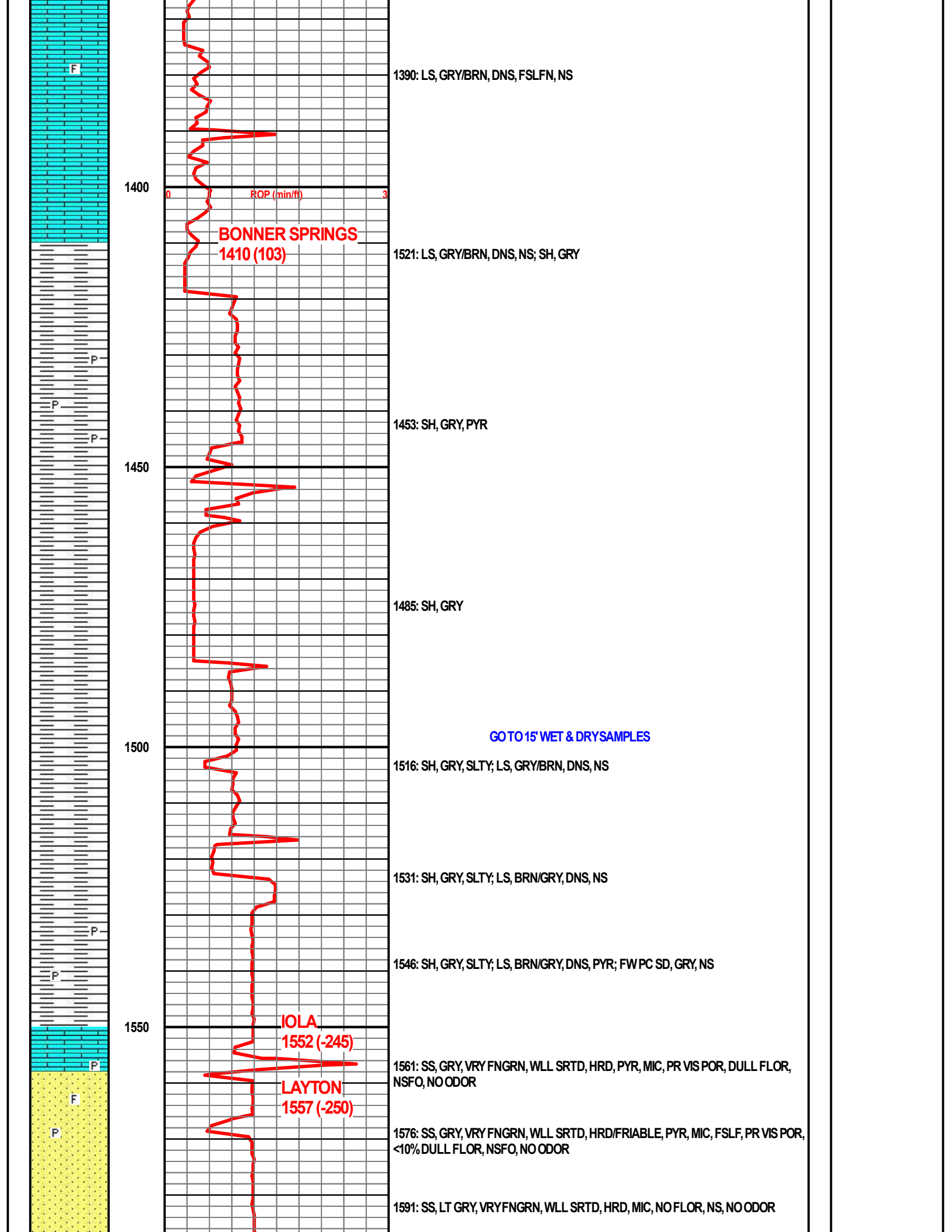
FLOR

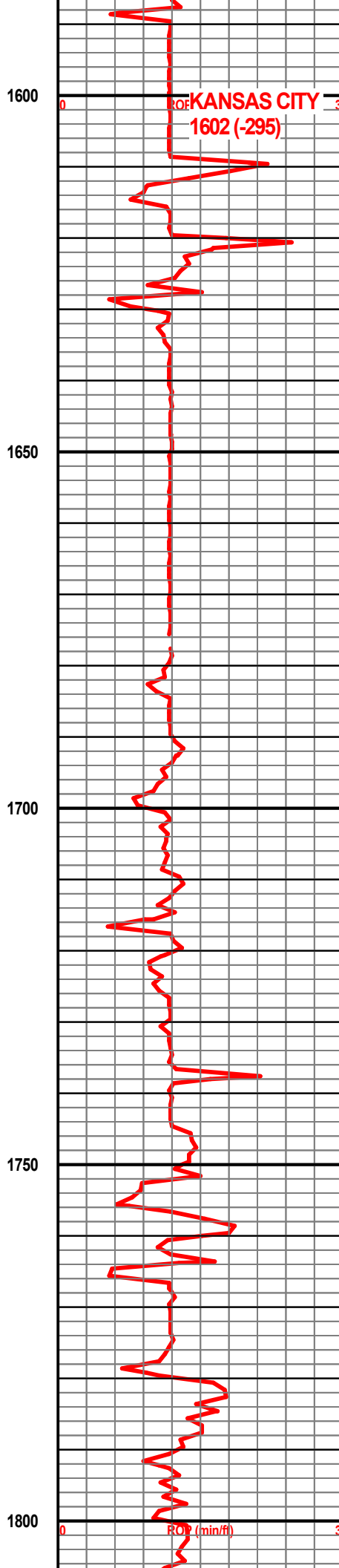
1292: LS, GRY, DNS, FSLF, PYR, DULL FLR, NS; SH, DRK GRY, SLTY

1328: LS, CRM/GRY, DNS, FNXL, NS

1359: LS, BRN/GRY, DNS, FNXLN, NS







1606: SS, WHT/LT GRY, VRY FNGRN, WLL SRTD, PYR, NO FLOR, SHOW OF GAS BUBBLE ON BREAK, NO ODOR

ROF OF KANSAS CITY  
1602 (-295)

1621: LS, TAN/BRN/GRY, DNS, FSLF, PYR, 60% DULL FLOR, NSFO, NO CUT, NO ODOR

VIS34 WT9.2

1635: LS, BRN/GRY, DNS, SHLY, 40% DULL FLOR, NSFO, NO CUT, NO ODOR

1651: LS, DRK GRY, FNXLN, PYR, SHLY, <5% FLOR, NSFO, NO ODOR

1666: LS, DRK GRY, FNXLN, SHLY, NS

1680: LS, DRK GRY, FNXLN, NS; SH, DRK GRY, SLTY

1696: LS, BRN/GRY, DNS, FSLF, DULL FLOR, NSFO, NO CUT, NO ODOR

1711: LS, BRN/CRM, DNS, M-XLS INCL, XLN POR, FLOR IN XLN POR, WK CUT, NSFO, NO ODOR

1726: LS, TAN/GRY, DNS, MDXLN, M-XLS INCL, XLN POR, OIL STN ON XL EDGE, 50-60% FLOR, GD CUT, SFO, SHOW OIL ON BREAK, GD ODOR



1726 F.jpg



1726-1.bmp



1726.bmp

● GD ODOR

1741: LS, TAN/CRM, DNS, MDXLN, M-XLN INCL, XLN POR, OIL STN ON XL EDGE, 20-30% FLOR, GD CUT, SFO, SHOW OIL ON BREAK, GD ODOR

● GD ODOR

1756: LS, BRN/GRY, DNS, FNXLN, NS, FT ODOR; SLTY



1741 F.jpg

● FT ODOR

VIS36 WT9.1

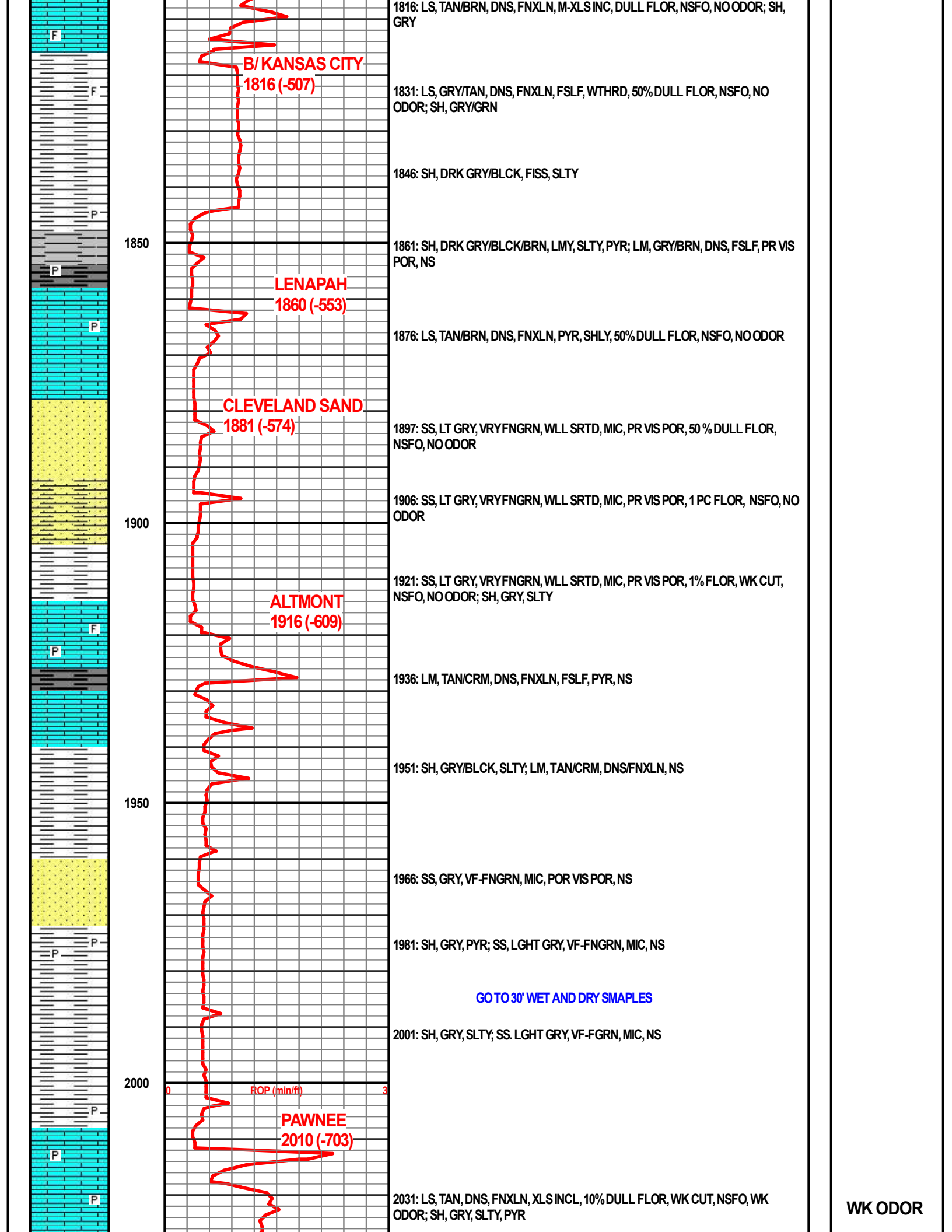
1771: SH, BLK, FISS; LS, BRN/TAN, DNS, FNXLN, M-XLS INC, FSLF, 50% DULL FLOR, NSFO, NO CUT, NO ODOR

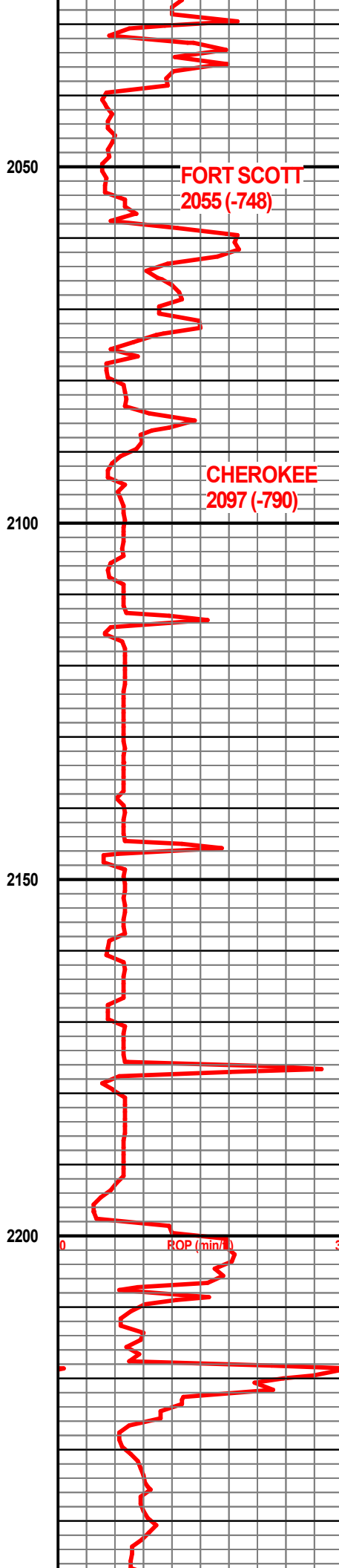
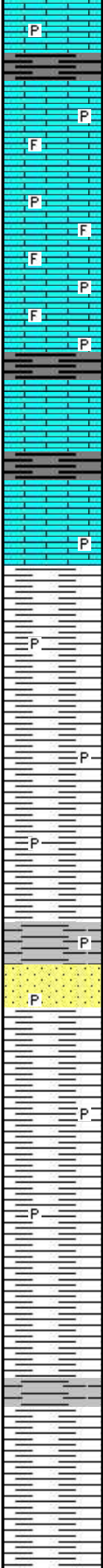
1786: LM, TAN/CRM, DNS, PYR, PR VIS POR, SEV PCS SLGHTY DOLM, P-FIXLN, <5% FLOR, GD CUT, SHOW OF OIL ON BREAK, FT ODOR; SH, BLK, FISS

● FT ODOR

1801: LS, TAN/CRM, DNS, FNXLN, M-XLS INC, DULL FLOR, NSFO, NO ODOR; SH, GRY/BRN

ROF (min/ft)





**39VIS 9.2WT 1+LCM**

2050

**FORT SCOTT**  
2055 (-748)

2061: LS, TAN/GRY, FNXLN, PR-FR INTXLN POR, DNS, PYR, FSLF, 20-30% DULL FLOR, WK CUT, NSFO, WK ODOR; SH, BLACK/GRY

WK ODOR

2082: LS, GRY/TAN, DNS, FNXLN, PYR, FSLF, 50% DULL FLOR, 10 PC BRGHT FLOR, GD CUT, SHOW OIL ON BREAK, WK ODOR; SH, GRY/BLCK, PYR

WK ODOR



2082 F.jpg

**CHEROKEE**  
2097 (-790)

2100

2113: LS, GRY/DRK TAN, DNS, FNXLN, PRY, 30-40% FLOR, WK CUT, NSFO, WK ODOR; SH, BLCK/GRY

WK ODOR

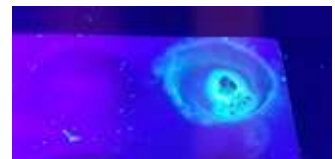
2145: SH, GRY/BLACK, SLTY, PYR,

2150

2175: SH, GRY/BLACK, PYR; SS, WHT/GRY, FNGRN, FRI, FLOR, OIL STN, GD CUT, SL SHOW OIL ON BREAK, NO ODOR

FLOR

**FUD MUD CK**  
9.2 WT, 40 VIS, pH  
10.0, CHL 900, LCM  
2LBS



2175 F.jpg

2200

2208: SH, GRY, SLTY, PYR

2240: SH, GRY

MUD PUMP FUEL PROBLEMS

2250

2272: SH, GRY/BLCK, PYR

GO TO 15' WET & DRY SAMPLES

2303: SH, GRY/BLCK, PYR, FSLF

CHANGE FUEL FILTER ON MUD PUMP

47VIS 9.3WT 4LCM

2300

2318: SH, GRY/BLCK/SLGHTY PRPL, PYR; VRY LTTL SS, LGHT GRY

2233: SH, GRY/BLCK, SLTY, RSTY, PYR; VRY LTTL SS, LGHT GRY

GO TO 10' WET & DRY SAMPLES

2348: SH, GRY, RSTY; LS, TAN/BRN, DNS, FNXLN, GD VIS POR, FW PC FLOR, NSFO, NO ODOR

2355 CFS15: SH, DRK GRY, PYR; LS, TAN/CRM, DNS, FNXLN, NS, NO ODOR

2355 CFS30: SH, GRY, PYR; LS, GRY, DNS, FW PC FLOR, NSFO, NO ODOR

2366: SH, GRY/DRK, GRY, PYR; LS, GRY/TAN, FN XLN, FW PC FLOR, NSFO, NO ODOR

2366 10CFS: SH, GRY/DRK GRY, PYR; LM TAN, FNZLN; FW PC SS, VRY FNGRN, NS, NO VRY FNT ODOR

2366 20CFS: SH, GRY, PYR; SS, GRY, VRY FNGRN, NS, VRY FT ODOR

2350

MISSISSIPPI  
2367 (-1060)

2376: SH, GRY, SOFT

VRY FNT  
ODOR

2386: CHT, BLUE/GRN/CRM, HRD/SHRP; LM, GRY/TAN, XLN, WTHRD, GD VUGGY POR, PYR, 50% FLOR, OIL STN, SFO, GD CUT, GD ODOR

● GD ODOR

46VIS 9.3WT 4LCM GO TO 15' WET & DRY SAMPLES

2396: LM, TAN/BRN, XLN, WTHRD, GD VUGGY VIS POR; PNPNT POR; CHT, CRM, WTHRD, FW PC HRD/SHRP, GD 100% FLOR, OIL STN, GD CUT, GSFO, GD ODOR, SMPL CATCHER

● GD ODOR

CLEANING SAMPLES



2396-1.bmp

2396 F.jpg

2400

2411: LM, TAN/CRM, XLN, WTHRD, PYR, GD VUGGY POR; CHT, BLUE/GRN, HRD/SHRP, 80-90% FLOR, OIL STN, GD CUT, GSFO, GD ODOR, OIL SCHEME ON PITS

● GD ODOR

2426: LM, TAN/CRM, XLN, WTHRD, CHLKY, GD VIS POR, <5% FLOR, GD CUT, SHOW OIL ON BREAK, FR ODOR

● FR ODOR

2441: LM, TAN/GRY, XLN, WTHRD, PYR, GD VIS POR; FW PC CHT, HRD/SHRP, 1% FLOR, GD CUT, SHOW OIL ON BREAK, FR ODOR

● FR ODOR

2456: LS, TAN/BRN, FNXLN; CHT, BLUE/GRN, HRD, FW PC FLOR, GD CUT, FT ODOR

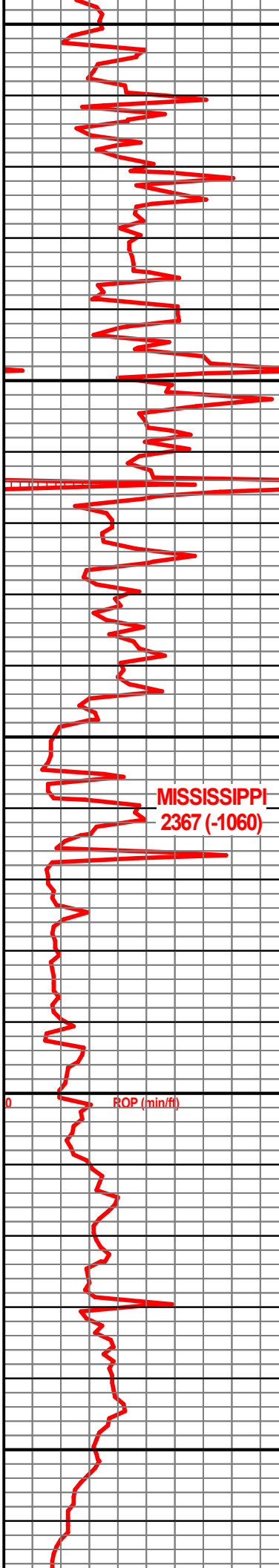
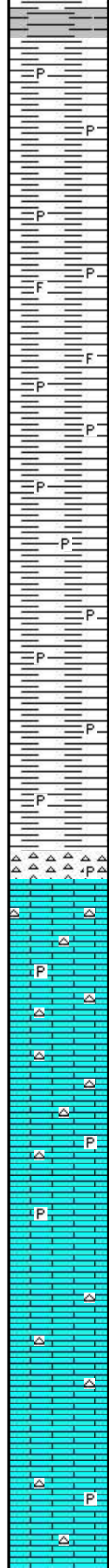
FT ODOR



2456 F.jpg

2450

2471: LM, TAN, FNXLN, DNS, PYR, XLS INC; CHT, BLUE, 1 PC FLOR, GD CUT, NO ODOR



ROP (min/ft)

2500

2550

2600

2486: LM, TAN, FNXLN, PYR; CHT, BLUE, HRD, FW PC FLOR, WK CUT, NO ODOR

2501: LM, BRN, DNS, FNXLN, XLS INC; CHT, BLUE/CRM, HRD, 1 PC FLOR, WK CUT, FT ODOR

2516: LM, BRN, DNS, PYR, XLS INC, FWPC FLOR, FT ODOR

2531: LS, BRN, DNS, ARG; CHT, BLUE, HRD, MNRL FLOR, RNG CUT, NO ODOR



2531 F.jpg

2546: LS, BRN/GRY, DNS, DOLO, ARG, XLS INC, FW PC FLOR, GD CUT, FT ODOR



2546 F.jpg

2561: LS, GRY/BRN, DNS, XLS INC; CHT, WHT/BLUE, HRD, MNRL FLOR, GD CUT, FT ODOR

2561 CFS15: LM, BRN/TAN, DNS, PYR, XLS INC, 5 PC FLOR, GD CUT, FT ODOR



2561 CFS15 F.jpg

2561 CFS30: LM, BRN/GRY, FNXLN, FSLF; SH, GRY, 3 PC FLOR, NO ODOR

2561 CFS45: LM, TAN/GRY, DNS, PYR, FNXLN; SH, GRY, 1 PC FLOR, NO ODOR,

RTD 2561 (-1254)  
LTD 2564 (-1257)

ROP (min/ft)

FT ODOR

FT ODOR

FT ODOR

FT ODOR

FT ODOR