Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1227695

Form ACO-1
August 2013
Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 35028
Name: RMR Operating, LLC
Address 1: 2515 MCKINNEY AVE
Address 2: SUITE 900
City: DALLAS State: TX Zip: 75201 + __ __ __ __
Contact Person: Alan Barksdale
Phone: (214) 817-0400
CONTRACTOR: License # 5822
Name: Val Energy, Inc.
Wellsite Geologist: Dick Jackson
Purchaser: None

Designate Type of Completion:

☑ New Well ☐ Re-Entry ☐ Workover

☑ Oil ☐ WSW ☐ SWD ☐ SIOW
☐ Gas ☐ D&A ☐ ENHR ☐ SIGW
☐ OG ☐ GSW ☐ Temp. Abd.
☐ 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 ENHR ☐ Conv. to SWD
☐ Plug Back ☐ Conv. to GSW ☐ Conv. to Producer

☐ Commingled Permit #:
☐ Dual Completion Permit #:
☐ SWD Permit #:
☐ ENHR Permit #:
☐ GSW Permit #:

8/2/2014	8/9/2014	8/9/2014
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-165-22085-00-00
Spot Description:
SE - NW - SE - SE Sec. 18 Twp. 18 S. R. 17 ☐ East ☑ West
750 Feet from ☐ North / ☑ South Line of Section
930 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: Rush
Lease Name: Besperat Well #: 1
Field Name: Wildcat
Producing Formation: None
Elevation: Ground: 1999 Kelly Bushing: 2009
Total Vertical Depth: 3850 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 1140 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: 6000 ppm Fluid volume: 4850 bbls
Dewatering method used: Hauled to Disposal

Location of fluid disposal if hauled offsite:

Operator Name: Barracuda Operating Co.
Lease Name: Mishler M-1 License #: 33953
Quarter SE Sec. 32 Twp. 16 S. R. 23 ☐ East ☑ West
County: Ness Permit #: D24-286

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: 01/14/2015
☐ **Confidential Release Date:**
☑ **Wireline Log Received**
☑ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 01/16/2015

1227695

Operator Name: RMR Operating, LLC Lease Name: Besperat Well #: 1

Sec. 18 Twp. 18 S. R. 17 ☐ East ☑ West County: Rush

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 ☑ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:

Attached

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Stone Coral	1129	+880
Heebner	3338	-1329
Lansing	3394	-1383
Arbuckle	3753	-1744

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 Casing	12.25	8.625	23	1140	Class A	315	POZ 60/40 4%gel

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	-			
	-			

Did you perform a hydraulic fracturing treatment on this well? ☐ Yes ☑ No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? ☐ Yes ☐ No *(If No, skip question 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)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record *(Amount and Kind of Material Used)*	Depth

TUBING RECORD: Size: Set At: Packer At: Liner Run: ☐ Yes ☐ No

Date of First, Resumed Production, SWD or ENHR. 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)*
☐ Other *(Specify)* _____

PRODUCTION INTERVAL:
_____
_____

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	RMR Operating, LLC
Well Name	Besperat 1
Doc ID	1227695

All Electric Logs Run

DLL
Sonic
CDNL
Micro
Radiation Guard

Dustin Ellis
620-639-4225

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

4/10

Test Ticket

NO. 60304

Well Name & No. Besperat #1 Test No. 1 Date 8-6-14

Company RMR Operating LLC Elevation 1985 KB 1999 GL

Address 2515 McKinney Ave Dallas texas 75201

Co. Rep / Geo. _____ Rig UAL Rig 6

Location: Sec. 18 Twp. 18s Rge. 17w Co. _____ State KS

Interval Tested 3723 - 3765 Zone Tested conglomerate

Anchor Length 42 Drill Pipe Run 3711 Mud Wt. 9.4

Top Packer Depth 3718 Drill Collars Run 0 Vis 53

Bottom Packer Depth 3723 Wt. Pipe Run 0 WL 8.8

Total Depth 3765 Chlorides 4000 ppm System LCM 2

Blow Description 1st open 20 minutes weak surface blow died off after 10 minutes. 1st shut in no blow back

2nd open. Dead flushed after 5 min. no help.

2nd shut in. N-A

Rec _____ Feet of _____ %gas %oil %water %mud

Rec _____ Feet of _____ %gas %oil %water %mud

Rec _____ Feet of _____ %gas %oil %water %mud

Rec _____ Feet of _____ %gas %oil %water %mud

Rec _____ Feet of _____ %gas %oil %water %mud

Rec Total 1 ft. mud BHT _____ Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic	1981	☐ Test	bottom hole
(B) First Initial Flow	35	☐ Jars	yes
(C) First Final Flow	37	☐ Safety Joint	yes
(D) Initial Shut-In	51	☐ Circ Sub	
(E) Second Initial Flow	36	☐ Hourly Standby	
(F) Second Final Flow	N-A	☐ Mileage	60 round trip
(G) Final Shut-In	N-A	☐ Sampler	N-A
(H) Final Hydrostatic	1957	☐ Straddle	N-A
		☐ Shale Packer	N-A
Initial Open	10:29 pm	☐ Extra Packer	N-A
Initial Shut-In	10:49 pm	☐ Extra Recorder	N-A
Final Flow	11:19 pm	☐ Day Standby	
Final Shut-In	N-A	☐ Accessibility	
		Sub Total	

T-On Location 8:00 pm

T-Started 8:40 pm

T-Open 10:29 pm

T-Pulled 11:30

T-Out 1:15 pm

Comments _____

☐ Ruined Shale Packer —

☐ Ruined Packer —

☐ Extra Copies —

Sub Total _____

Total _____

MP/DST Disc't _____

Approved By _____ Our Representative Dustin Ellis

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **RMR Operating LLC.**

2515 Mckinney Ave.
Dallas Texas 75201

ATTN: Alan Barksdale

Alan Barksdale

18-18s-17w-Rush

Start Date: 2014.08.06 @ 08:40:00
End Date: 2014.08.06 @ 13:10:30
Job Ticket #: 60304 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.08.07 @ 02:30:36

RMR Operating LLC. 18-18s-17w-Rush Alan Barksdale DST # 1 Conglomerate 2014.08.06

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

RMR Operating LLC.

2515 Mckinney Ave.
Dallas Texas 75201

ATTN: Alan Barksdale

18-18s-17w-Rush

Alan Barksdale

Job Ticket: 60304 **DST#: 1**

Test Start: 2014.08.06 @ 08:40:00

GENERAL INFORMATION:

Formation: **Conglomerate**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:29:30
Time Test Ended: 13:10:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Dustin Ellis
Unit No: S2-Great Bend-60

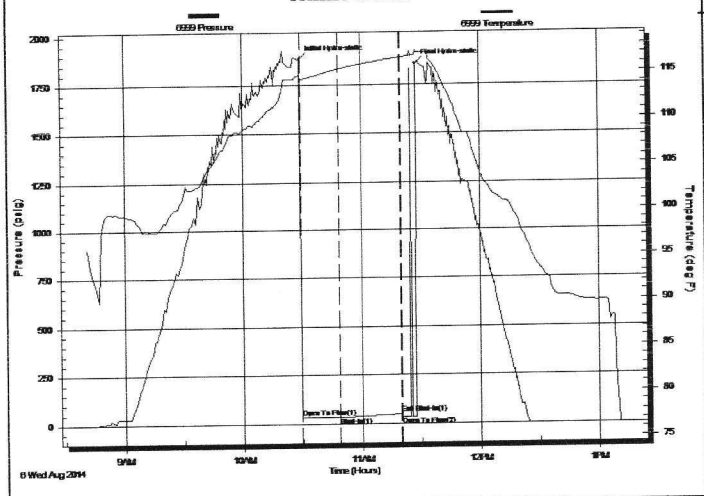
Interval: 3723.00 ft (KB) To 3765.00 ft (KB) (TVD)
Total Depth: 3765.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1999.00 ft (KB)
1985.00 ft (CF)
KB to GR/CF: 14.00 ft

Serial #: 6999 **Outside**
Press@RunDepth: 37.40 psig @ 3760.00 ft (KB)
Start Date: 2014.08.06 End Date: 2014.08.06
Start Time: 08:40:00 End Time: 13:10:30

Capacity: 5000.00 psig
Last Calib.: 2014.08.07
Time On Btm: 2014.08.06 @ 10:29:00
Time Off Btm: 2014.08.06 @ 11:27:30

TEST COMMENT: 1st Open 20 minutes Weak surface blow died off after 10 minutes.
1st Shut in 30 minutes No blow back
2nd Open 10 minutes Dead flushed tool no help.
2nd Shut in N/A



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1881.56	114.70	Initial Hydro-static
1	35.12	114.32	Open To Flow (1)
20	37.40	115.36	Shut-In(1)
51	51.55	116.59	End Shut-In(1)
51	36.20	116.59	Open To Flow (2)
59	1857.86	117.37	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	Mud 100%	0.01

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

DRILL STEM TEST REPORT

RMR Operating LLC.

2515 Mckinney Ave.
Dallas Texas 75201

ATTN: Alan Barksdale

18-18s-17w-Rush

Alan Barksdale

Job Ticket: 60304 **DST#: 1**

Test Start: 2014.08.06 @ 08:40:00

GENERAL INFORMATION:

Formation: **Conglomerate**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:29:30
Time Test Ended: 13:10:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Dustin Ellis
Unit No: S2-Great Bend-60

Interval: 3723.00 ft (KB) To 3765.00 ft (KB) (TVD)
Total Depth: 3765.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

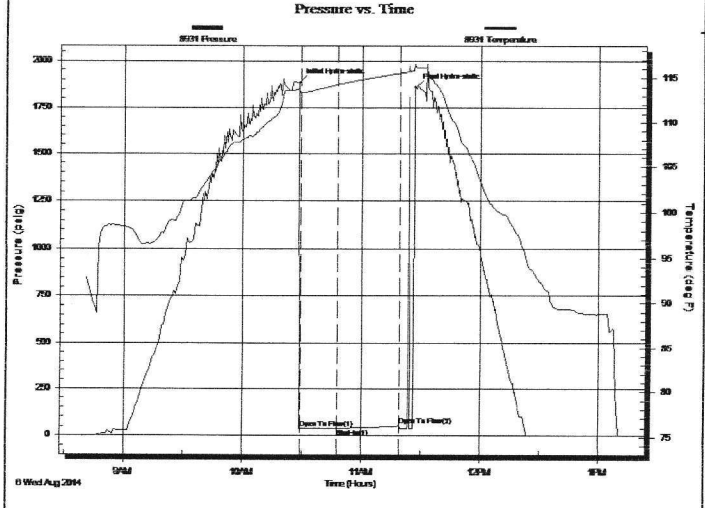
Reference Elevations: 1999.00 ft (KB)
1985.00 ft (CF)
KB to GR/CF: 14.00 ft

Serial #: 8931

Press@RunDepth: psig @ ft (KB)
Start Date: 2014.08.06 End Date: 2014.08.06
Start Time: 08:40:00 End Time: 13:10:00

Capacity: 5000.00 psig
Last Calib.: 2014.08.07
Time On Btm: 2014.08.06 @ 10:28:30
Time Off Btm: 2014.08.06 @ 11:27:00

TEST COMMENT: 1st Open 20 minutes Weak surface blow died off after 10 minutes.
1st Shut in 30 minutes No blow back
2nd Open 10 minutes Dead flushed tool no help.
2nd Shut in N/A



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1882.23	113.85	Initial Hydro-static
1	36.92	113.41	Open To Flow (1)
20	38.67	114.31	Shut-In(1)
51	50.27	115.53	Open To Flow (2)
59	1859.76	116.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	Mud 100%	0.01

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

RMR Operating LLC.

2515 Mckinney Ave.
Dallas Texas 75201

ATTN: Alan Barksdale

18-18s-17w-Rush

Alan Barksdale

Job Ticket: 60304 **DST#: 1**

Test Start: 2014.08.06 @ 08:40:00

Tool Information

Drill Pipe:	Length:	3711.00 ft	Diameter:	3.80 inches	Volume:	52.06 bbl	Tool Weight:		2000.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:		20000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight to Pull Loose:		60000.00 lb
					Total Volume:	52.06 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		16.00 ft					String Weight:	Initial	52000.00 lb
Depth to Top Packer:		3723.00 ft						Final	52000.00 lb
Depth to Bottom Packer:		ft							
Interval between Packers:		42.00 ft							
Tool Length:		70.00 ft							
Number of Packers:		2	Diameter:	6.75 inches					

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			3700.00		
Hydraulic tool	5.00			3705.00		
Jars	6.00			3711.00		
Safety Joint	2.00			3713.00		
Top Packer	5.00			3718.00		
Packer	5.00			3723.00	28.00	Bottom Of Top Packer
Perforations	37.00			3760.00		
Recorder	0.00	8731	Inside	3760.00		
Recorder	0.00	6999	Outside	3760.00		
Bull Plug	5.00			3765.00	42.00	Anchor Tool
Total Tool Length:	**70.00**					

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

RMR Operating LLC.

2515 Mckinney Ave.
Dallas Texas 75201

ATTN: Alan Barksdale

18-18s-17w-Rush

Alan Barksdale

Job Ticket: 60304 **DST#: 1**

Test Start: 2014.08.06 @ 08:40:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	53.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.80 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4000.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	Mud 100%	0.014

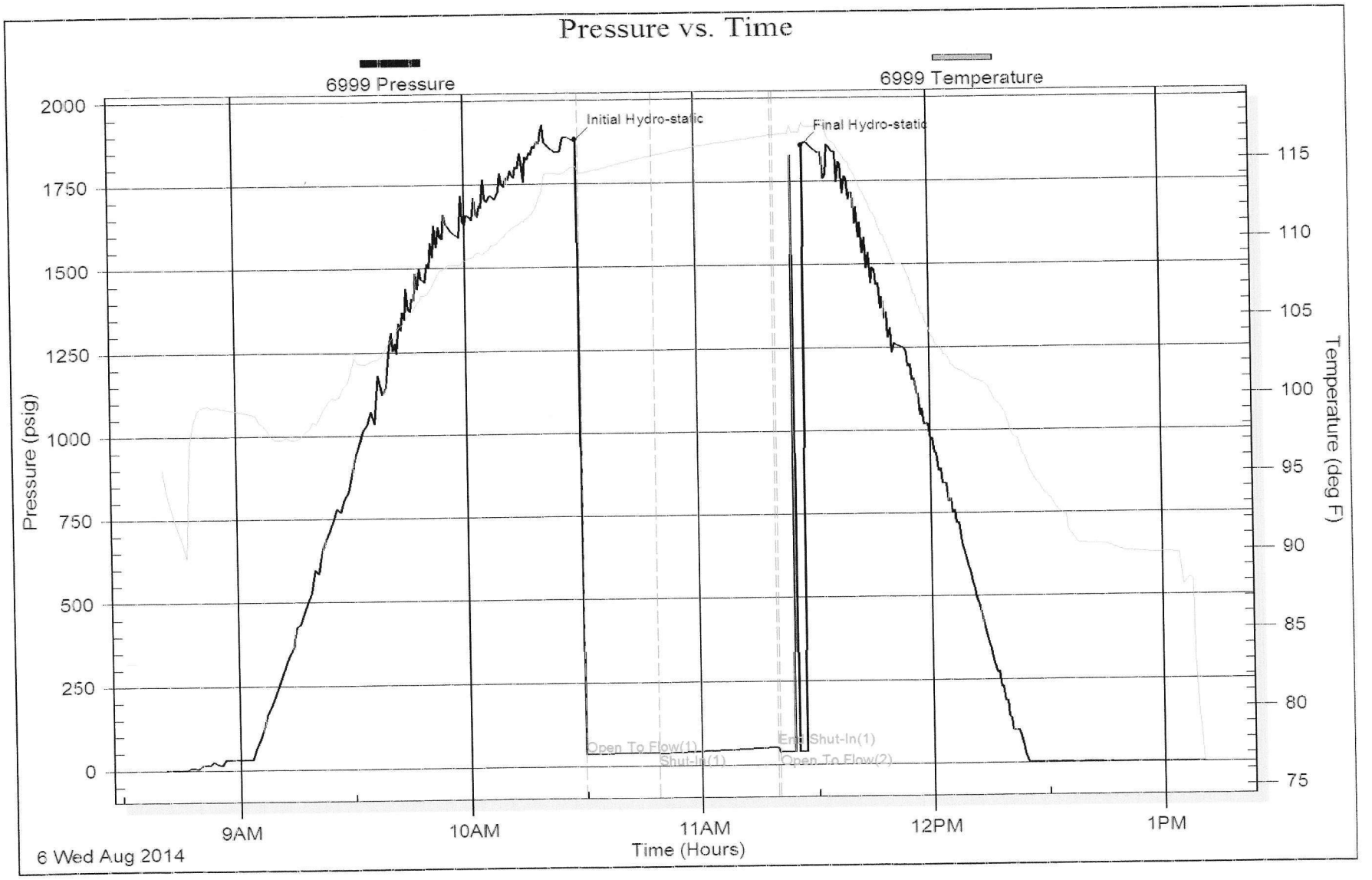
Total Length: 1.00 ft Total Volume: 0.014 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

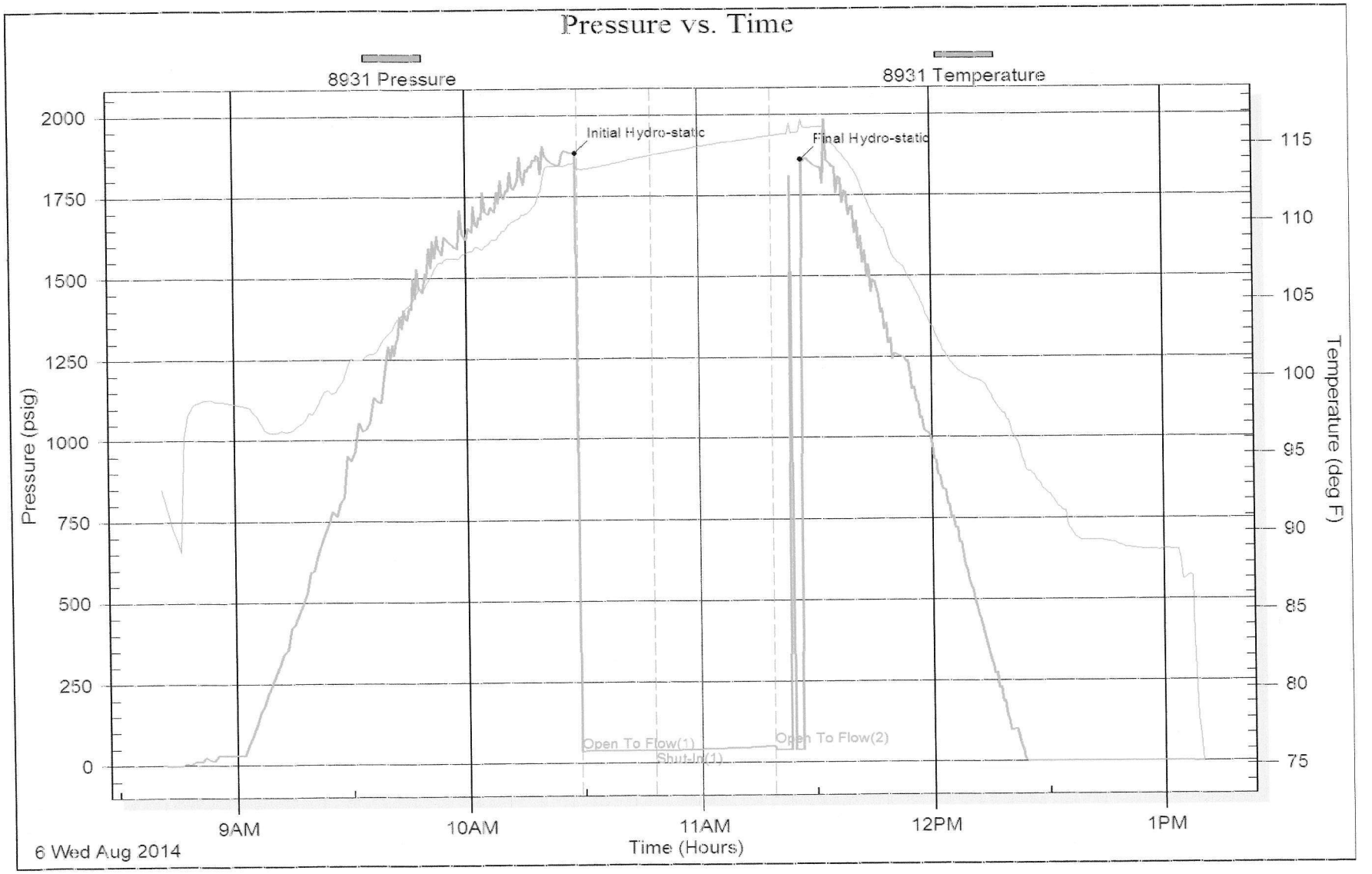
Recovery Comments:

Serial #: 6999 **Outside** RMR Operating LLC. Alan Barksdale DST Test Number: 1



Trilobite Testing, Inc Ref. No: 60304 Printed: 2014.08.07 @ 02:30:36

Serial #: 8931 RMR Operating LLC. Alan Barksdale DST Test Number: 1



Trilobite Testing, Inc Ref. No: 60304 Printed: 2014.08.07 @ 02:30:36

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

one 785-483-2025
l 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 602

e	Sec.	Twp.	Range	County	State	On Location	Finish
8-2-14	18	18	17	Rush	KS		6:00 PM

Location Bison, Ks - Hwy 4, W to 30 Rd, 3½ S, W into

se	Bespeckat	Well No. 1	Owner
tractor	Val Energy #6		To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed
e Job	Surface		
e Size	12¼"	T.D. 1140'	Charge To Rocky Mountain Resources
	8 5/8"	Depth ~~1140'~~ 1140'	Street 2515 McKinney Ave Suite 900
. Size		Depth	City Dallas State Tx 75201
		Depth	The above was done to satisfaction and supervision of owner agent or contra
nent Left in Csg.	42'	Shoe Joint 42'	Cement Amount Ordered 450 70/30 3%cc 2%Ge
as Line		Displace 69 3/4 BLS	¼# Flo-seal

EQUIPMENT

nptrk 16	No.	Cementer	
		Helper Billy	
ktrk 21	No.	Driver	
		Driver Ryan	
ktrk P.U.	No.	Driver	
		Driver Rick	

JOB SERVICES & REMARKS

narks:	Cement did Circulate
Hole	
use Hole	
tralizers	
kets	
or Port Collar	

Common	
Poz. Mix	
Gel.	
Calcium	
Hulls	
Salt	
Flowseal	
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	
Mileage	

FLOAT EQUIPMENT

Guide Shoe	Baffle plate
Centralizer	3
Baskets	1
AFU Inserts	Rubber plug
Float Shoe	
Latch Down	
Pumptrk Charge	
Mileage	
Tax	
Discount	
Total Charge	

nature

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

Well Name:	**Red Mountain Resources**	**Besperat**	
Well Id:			
Location:	**Section 18-T18S-R17W**	**Rush County, Kansas**	
License Number:	**15-165-22085-00-00**	**Region:**	
Spud Date:	**8/1/2014**	**Drilling Completed:**	**8-7-14**
Surface Coordinates:	**750' FSL &930' FEL**		
Bottom Hole Coordinates:	**As above**		
Ground Elevation (ft):	**1,999'**	**K.B. Elevation (ft):**	**2009'**
Logged Interval (ft):	**200 To: 3850**	**Total Depth (ft):**	**3850**
Formation:	**ALLUVIUM /ARBUCKLE**		
Type of Drilling Fluid:	**NATIVE/CHEM FRESH**		

OPERATOR

Company: Red Mountain Resources
Address: 2515 McKinney Avenue, Suite 900
Dallas, Texas 75201

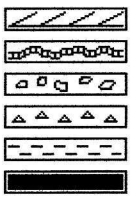
GEOLOGIST

Name: Dick Jackson
Company: Red Mountain Resources
Address: 2515 McKinney Avenue, Suite 900
Dallas, Texas 75201

Comments

VAL ENERGY RIG 6 SAMPLES
GEODYNAMIC LOGGING UNIT 16
LOGGER SPENCER CORRELL

ROCK TYPES



Anhy
Bent
Brec
Cht
Clyst
Coal
Congl
Dol
Gyp
Igne
Lmst
Meta
Mrlst
Salt
Shale
Shcol
Shgy
Sltst
Ss
Till
sdy sh
calc sh
shale
carb sh

ACCESSORIES

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

FOSSIL

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

STRINGER

Anhy
Arg
Bent
Coal
Dol
Gyp
Ls
Mrst
Sltstrg
Ssstrg

TEXTURE

BS Boundst
C Chalky
CX CryxIn
E Earthy
FX FinexIn
GS Grainst
L Lithogr
MX MicroxIn
MS Mudst
PS Packst
WS Wackest

OTHER SYMBOLS

POROSITY TYPE

E Earthy
F Fenest
F Fracture
I Inter
M Moldic
O Organic
P Pinpoint
V Vuggy

SORTING

W Well
M Moderate
P Poor

ROUNDING

R Rounded
r Subrnd
a Subang
A Angular

OIL SHOWS

Even
Spotted
Ques
Dead

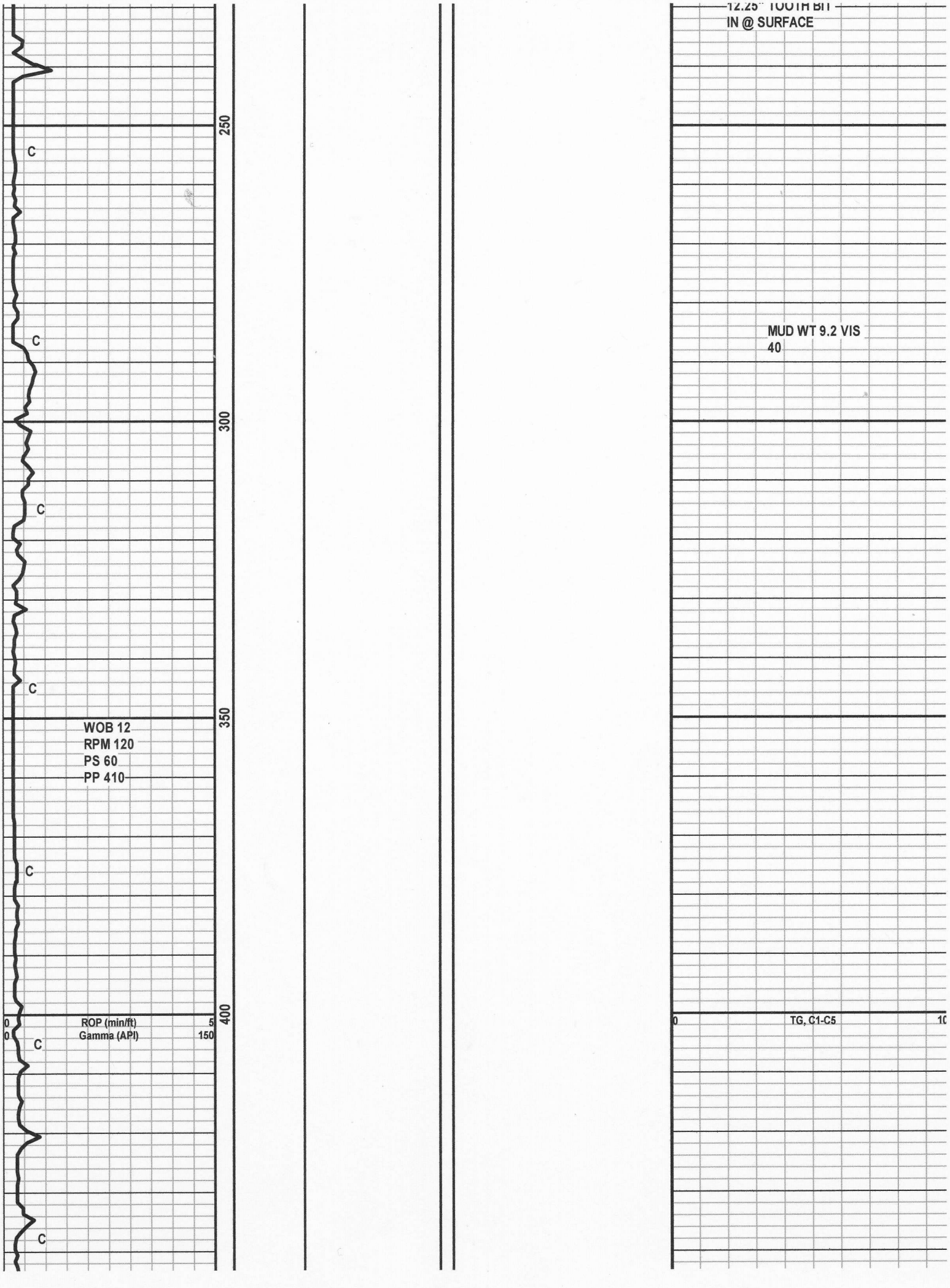
INTERVALS

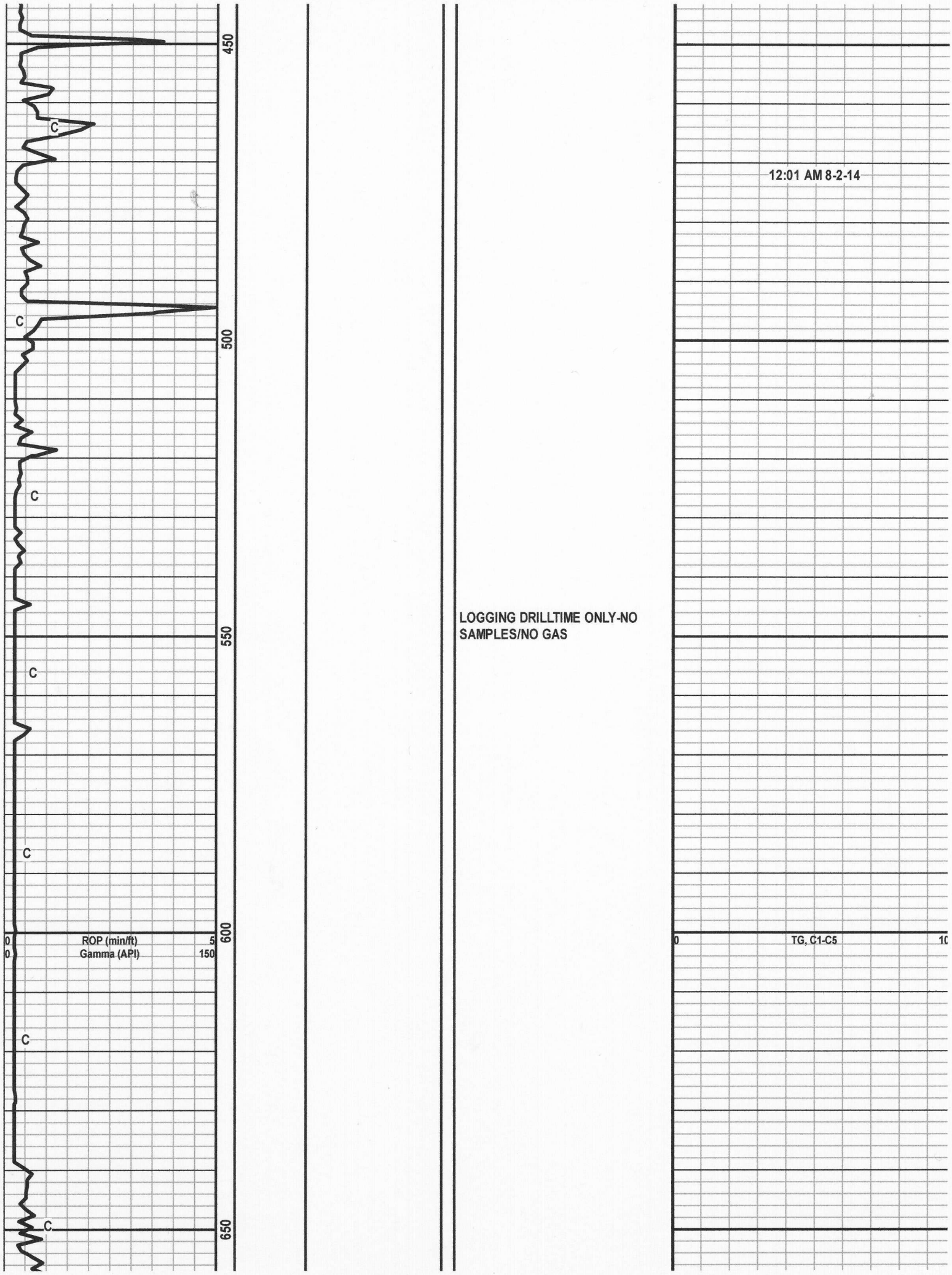
Core
Dst

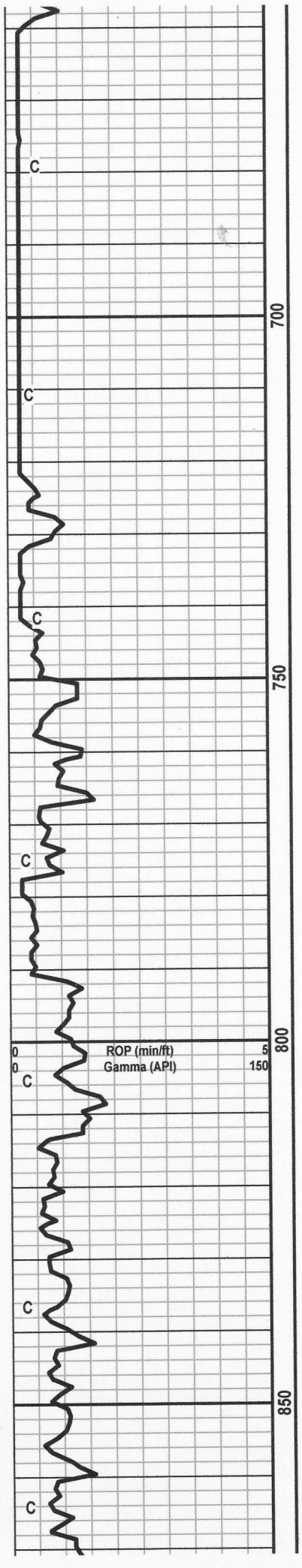
EVENTS

Rft
Sidewall

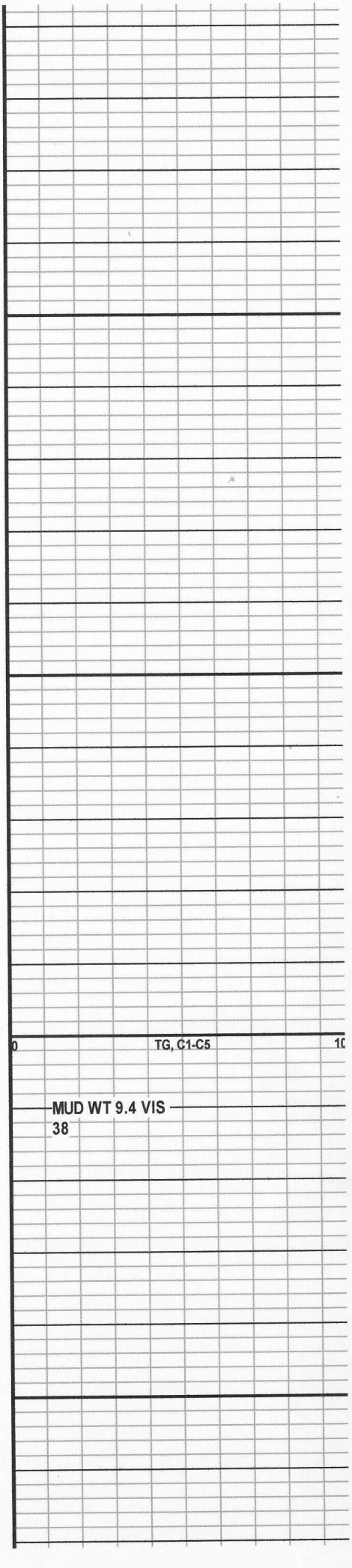
Curve Track 1 ROP (min/ft) Gamma (API)	Depth	% Lithology	Sample Photos	Oil Shows	Geological Descriptions	TG, C1-C5 TG (units) C1 (units) C2 (units) C3 (units) C4 (units) C5 (units)
0 ROP (min/ft) 5 0 Gamma (API) 150	2				SPUD 8-1-14 BEGIN ONE MAN LOGGING OPERATIONS @ 200' 8-1-14 LOGGING DRILLTIME ONLY-NO SAMPLES/NO GAS	0 TG, C1-C5 10 BIT # 1 REED

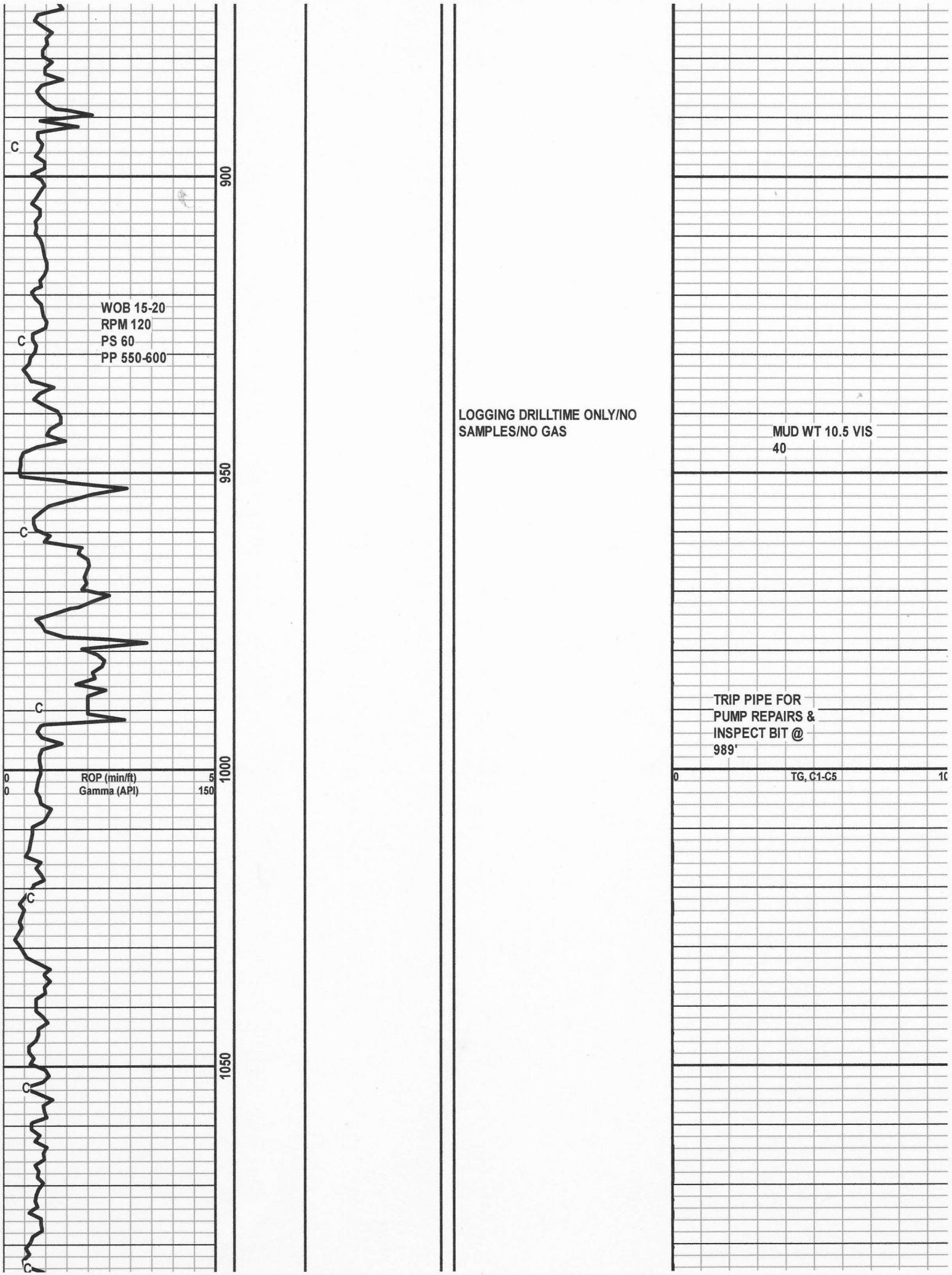

12.25" TOOTH BIT
IN @ SURFACE
MUD WT 9.2 VIS
40
250
300
350
400
C
WOB 12
RPM 120
PS 60
PP 410
0
0
ROP (min/ft)
Gamma (API)
5
150
0
TG, C1-C5
10

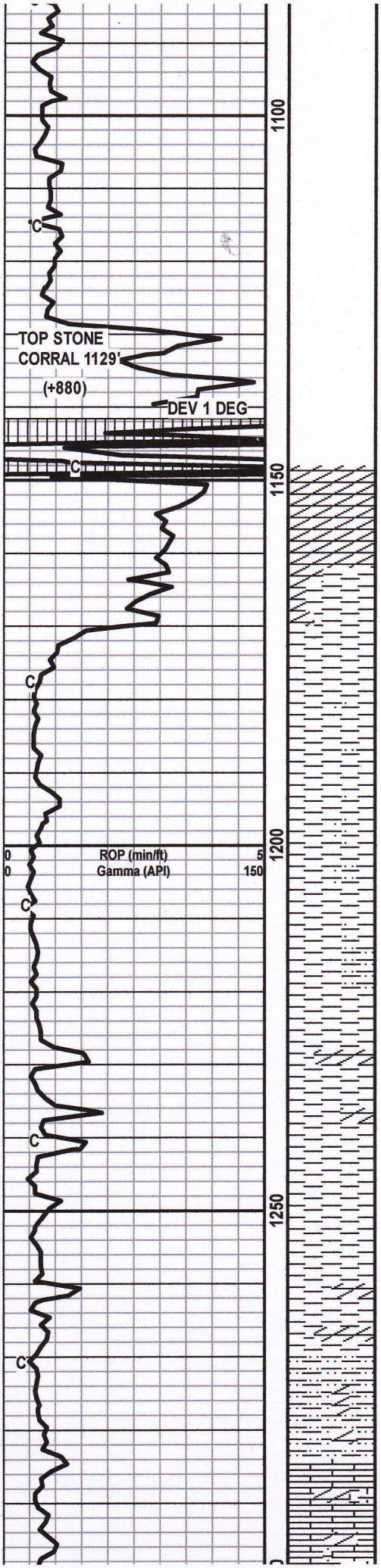

450
500
550
600
650
C
C
C
C
C
C
0
0
ROP (min/ft)
Gamma (API)
5
150
LOGGING DRILLTIME ONLY-NO
SAMPLES/NO GAS
12:01 AM 8-2-14
0
TG, C1-C5
10



LOGGING DRILLTIME ONLY- NO SAMPLES /NO GAS




C
C
C
C
C
C
900
950
1000
1050
WOB 15-20
RPM 120
PS 60
PP 550-600
0
0
ROP (min/ft)
Gamma (API)
5
150
LOGGING DRILLTIME ONLY/NO SAMPLES/NO GAS
MUD WT 10.5 VIS 40
TRIP PIPE FOR PUMP REPAIRS & INSPECT BIT @ 989'
0
TG, C1-C5
10



LOGGING DRILLTIME ONLY NO SAMPLES/NO GAS

SET 8 5/8" CASING @ 1140' 8-2-14

DRLD APPOX 50' CEMENT IN CASING GOOD FIRM CEMENT..

BEGIN CATCHING SAMPLES, MUD FLOW TO AGITATOR/GAS TRAP

ANHY-OFF WHT, CRM, FN TO CRYPTOXLN, DNS, V/FAINT LT YELLOW MINERAL FLU

SH-RD, GY, FN TXT, SLTY IP, SFT, GUMMY IP, CLYEY IP

ANHY-CRM, LT GY, FN TO CRYPTOXLN, SLI CALC, DNS, NO FLU, W/SH AAB

SLTST-GY, SHLY, SLI ANHYDRITIC

LS-CRM, V/LT GY, FN TO CRYPTOXLN, ANHYDRITIC, SME GRDNG TO CALC ANHY, DNS, NO VIS PORO, SME VVF IMBDD CLR

MUD WT 10.7 VIS 37

DRLG TO 1:30PM 8-2-14, CIRC, TOH FOR CASING RAN 28 JNTS 8 5/8" 23# CASING TO 1140, CEMENT, NIPPLE UP 7AM 8-3-14

12:01AM 8-3-14

Scale Change

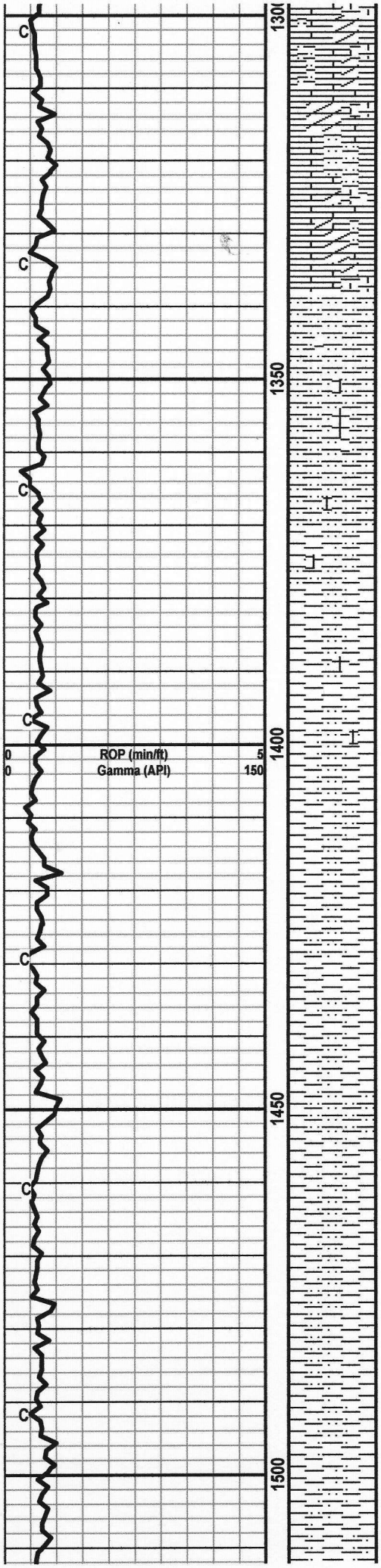
0 TG, C1-C5

NOTE GAS SCALE CHANGE 0-50 U

NEW BIT #2 7 7/8" REED TYPE 20 TRI CONE IN @ 1140'

MUD CK @ 1164' WT 8.6 FV 27 CK 1/32, FIL N/C

0 TG, C1-C5



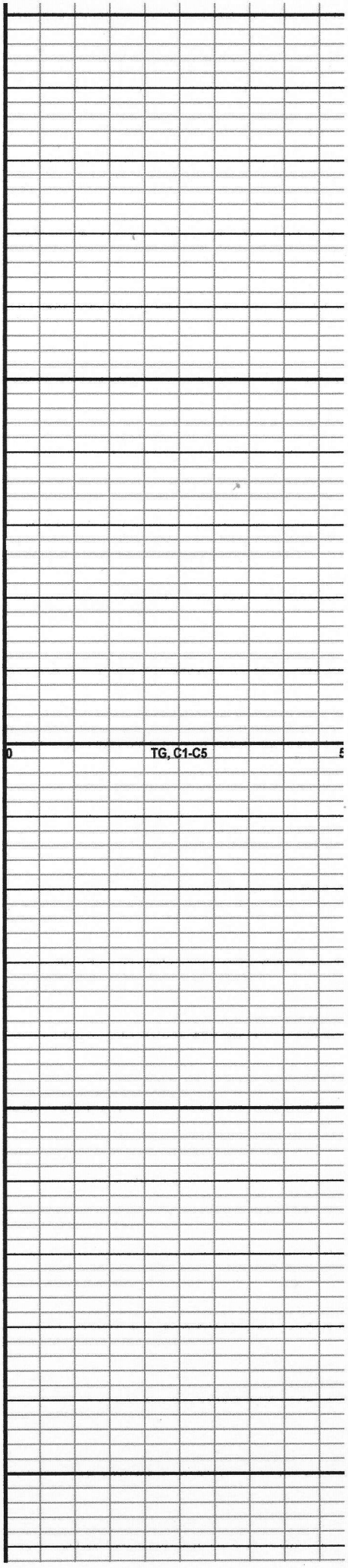
QTZ GRNS, SLI SNDY IP, V/SCAT TR MOD BRIGHT YELLOW MINERAL FLU

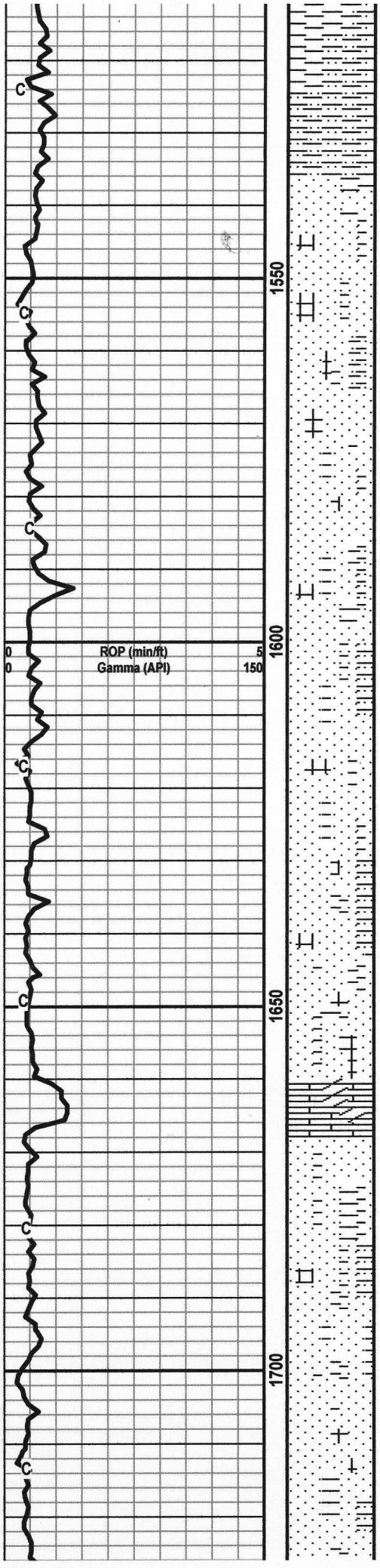
SH-RD, MED TO RUFF TXT, SLTY, SME VVF IMBDD HALITE X-TALS, SME GRDNG TO SHLY SLTST, SFT

SH-LT RD, RD, FN TO RUFF SLTY TXT, GRDNG TO SLTST, ABUND VVF LSE OPA TO MLKY QTZ GRNS, TR VVF K-FLDSPRS, TR VVF RE-WRKD LS FRAGS, TR VVF IMBDD HALITE X-TALS, NO FLU IN SAMPLES

SH/SLTST AAB

SH-GY, LT GY, SME RDDISH, MED TO RUFF SLTY TXT, TR FN TXT, ABUND LSE VVF QTZ GRNS, GRDNG TO SHLY SLTST IP, SFT





SLTST-V/LT GY, PRED LSE VVF QTZ GRNS, TR VVF K-FLDSPRS & POSS TR ALBITE, NO FLU

NOTE SLIGHT GAS INCREASE

SS-LT GY, OFF WHT, REDDISH, VVF TO FN GR, MOD W/SRTD, SUB RNDD, V/SCAT TR FN CLSTRS, SME VF HALITE X-TALS, MSTLY LSE QTZ GRNS W/TR FN K-FLDSPR FRAGS, SME GY SH, SME FN PYR, NO STN, NO ODOR, NO FLU

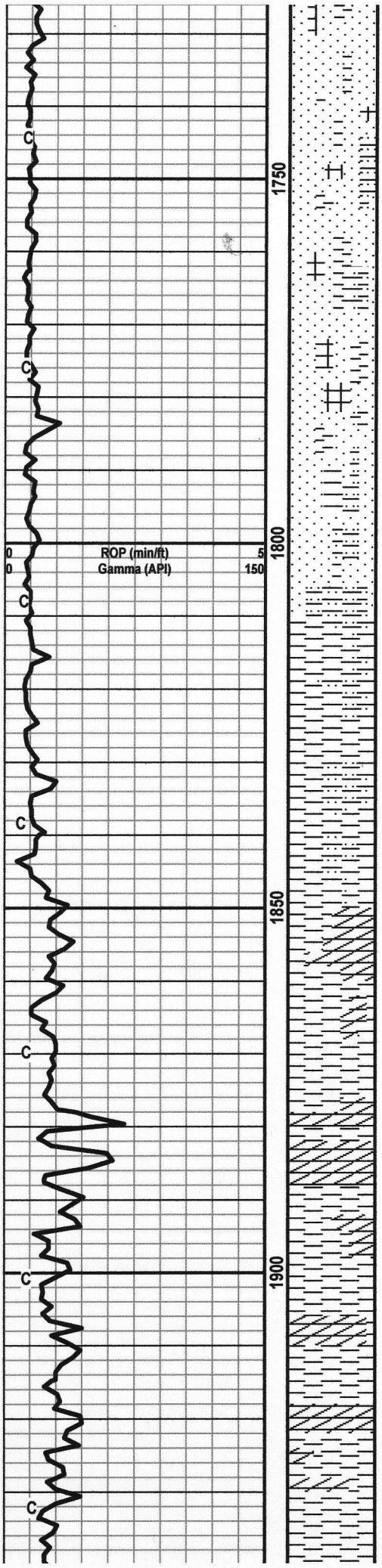
SS-AAB

0 TG, C1-C5 5

SS-V/LT GY, OFF WHT, VFG, FN GR, MOD W/SRTD, SUB RNDD, PRED LSE VVF TO VF QTZ GRNS, SME SMALL FRI CLSTRS, NO FLU

ANHY-TN, FN XLN, CALC, SNDY, NO FLU

SS-OFF WHT, V/LT GY, SME RDDISH, FN TO VF GR, MOD W/SRTD, SUB RNDD TO SUB ANG, PRED LSE OPA QTZ GRNS, SME VVF HALITE X-TALS, SME SMALL FRI CLSTRS, SHLY IP, NO FLU



SS-OPA, OFF WHT, LT GY, SME RDDISH, FN GR, MOD W/SRTD, SUB ANG, PRED LSE QTZ GRNS , SME VF HALITE X-TALS, NO STN, NO ODOR, NO FLU

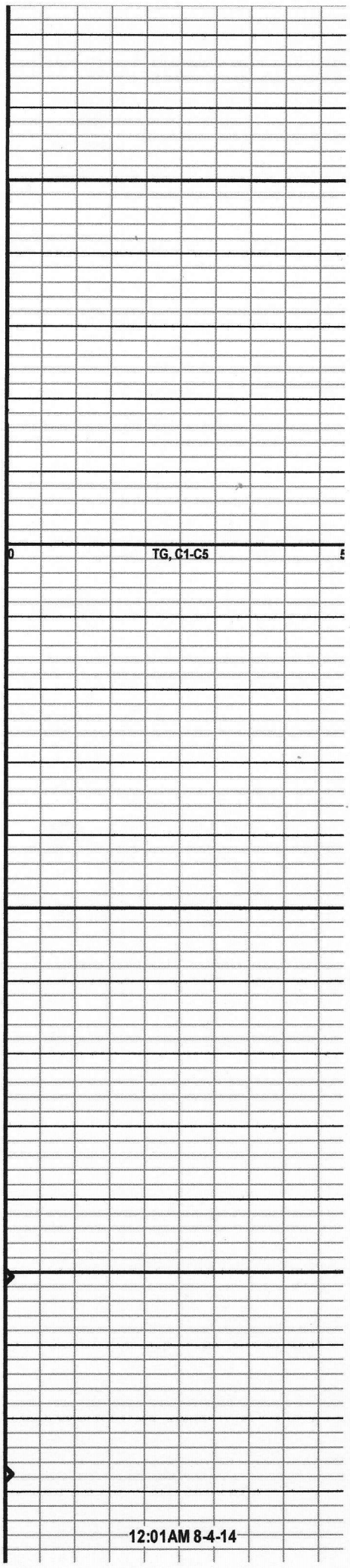
SS/SLTST

SH-RD, GY, FN TXT, SME ANHY, ABUND SS/SLTST CVNGS, BLKY

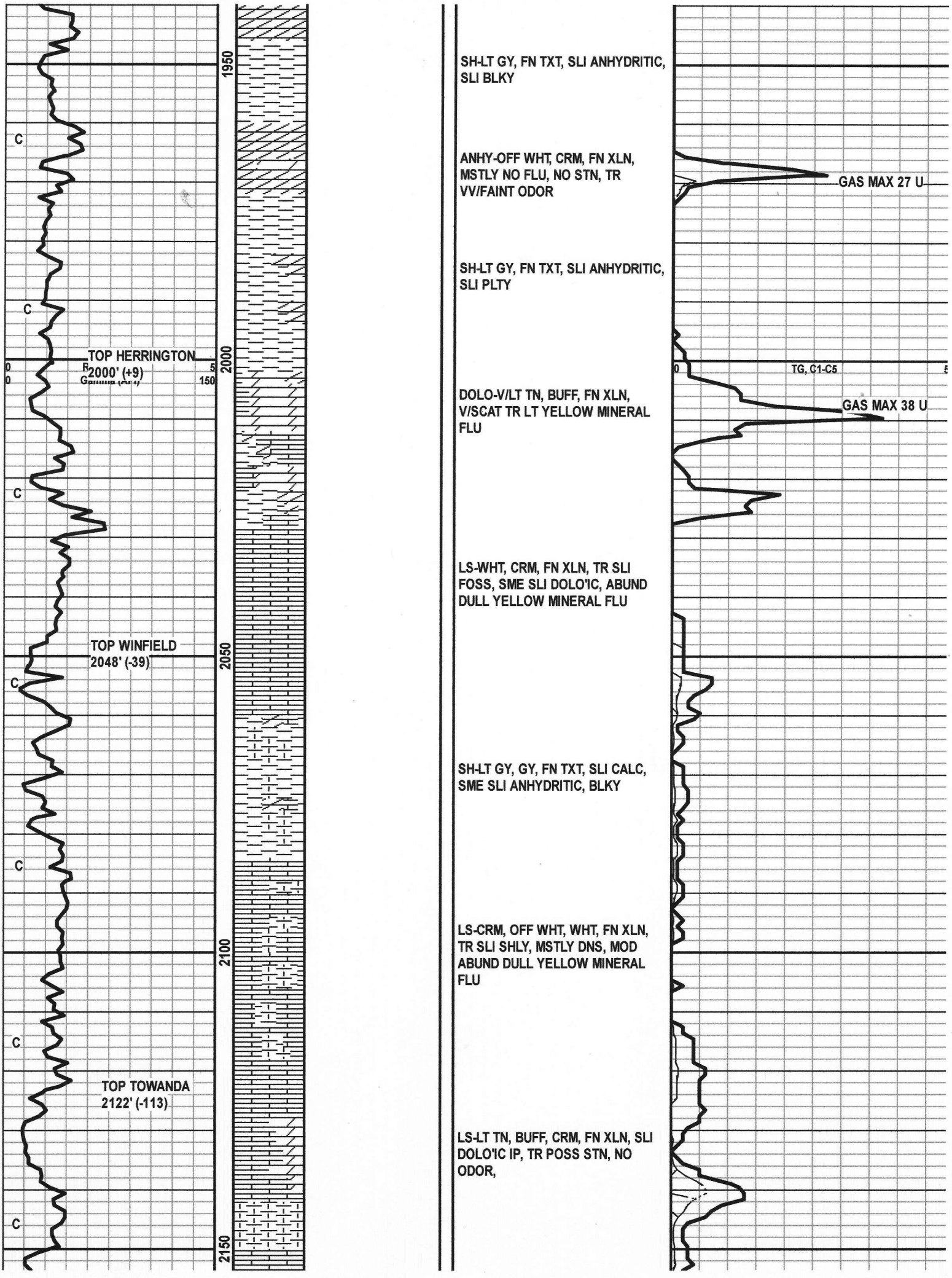
ANHY-OPA, MLKY, FN XLN, NO FLU

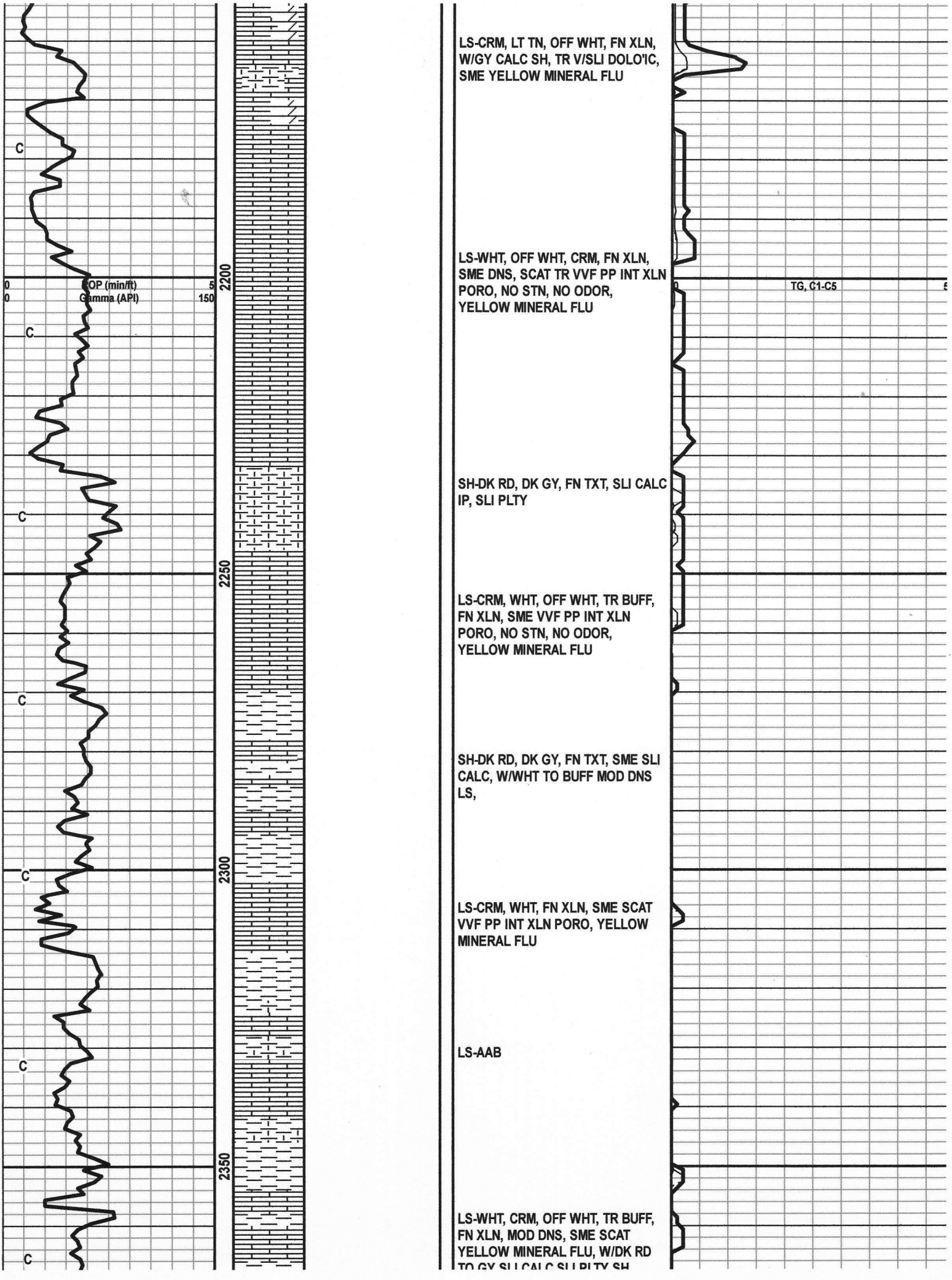
ANHY-OPA, CRM. MLKY, FN XLN, MSTLY DNS, NO STN, NO ODOR, NO FLU

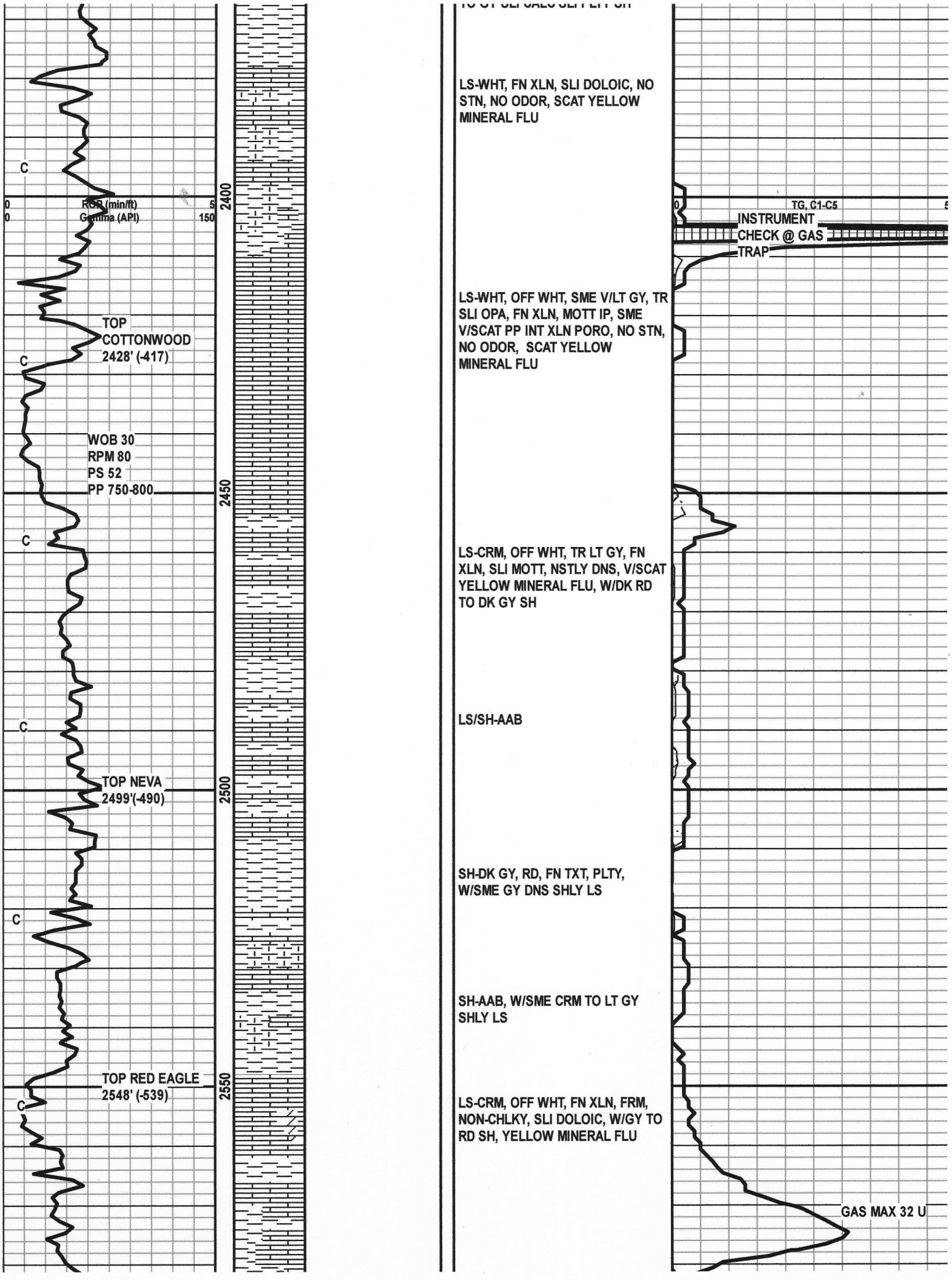
ANHY-WHT, CRM, OFF WHT, TR OPA, FN XLN, DNS, MSTLY NO FLU

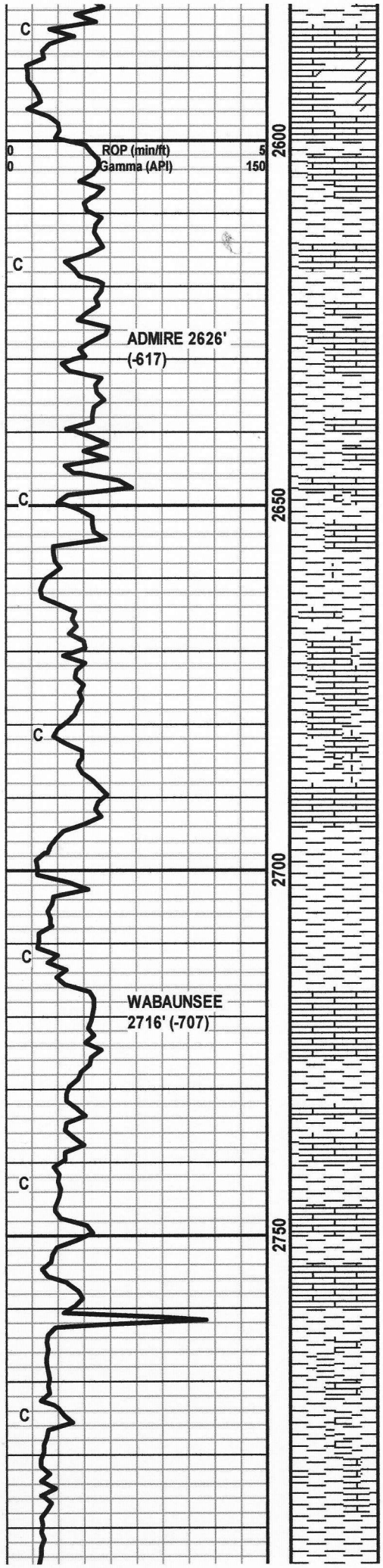


12:01AM 8-4-14


1950
2000
2050
2100
2150
C
C
C
C
C
C
TOP HERRINGTON
2000' (+9)
TOP WINFIELD
2048' (-39)
TOP TOWANDA
2122' (-113)
SH-LT GY, FN TXT, SLI ANHYDRITIC, SLI BLKY
ANHY-OFF WHT, CRM, FN XLN, MSTLY NO FLU, NO STN, TR VV/FAINT ODOR
SH-LT GY, FN TXT, SLI ANHYDRITIC, SLI PLTY
DOLO-V/LT TN, BUFF, FN XLN, V/SCAT TR LT YELLOW MINERAL FLU
LS-WHT, CRM, FN XLN, TR SLI FOSS, SME SLI DOLO'IC, ABUND DULL YELLOW MINERAL FLU
SH-LT GY, GY, FN TXT, SLI CALC, SME SLI ANHYDRITIC, BLKY
LS-CRM, OFF WHT, WHT, FN XLN, TR SLI SHLY, MSTLY DNS, MOD ABUND DULL YELLOW MINERAL FLU
LS-LT TN, BUFF, CRM, FN XLN, SLI DOLO'IC IP, TR POSS STN, NO ODOR,
GAS MAX 27 U
TG, C1-C5
GAS MAX 38 U


0
ROP (min/ft)
5
0
Gamma (API)
150
C
2200
2250
2300
2350
LS-CRM, LT TN, OFF WHT, FN XLN, W/GY CALC SH, TR V/SLI DOLO'IC, SME YELLOW MINERAL FLU
LS-WHT, OFF WHT, CRM, FN XLN, SME DNS, SCAT TR VVF PP INT XLN PORO, NO STN, NO ODOR, YELLOW MINERAL FLU
SH-DK RD, DK GY, FN TXT, SLI CALC IP, SLI PLTY
LS-CRM, WHT, OFF WHT, TR BUFF, FN XLN, SME VVF PP INT XLN PORO, NO STN, NO ODOR, YELLOW MINERAL FLU
SH-DK RD, DK GY, FN TXT, SME SLI CALC, W/WHT TO BUFF MOD DNS LS,
LS-CRM, WHT, FN XLN, SME SCAT VVF PP INT XLN PORO, YELLOW MINERAL FLU
LS-AAB
LS-WHT, CRM, OFF WHT, TR BUFF, FN XLN, MOD DNS, SME SCAT YELLOW MINERAL FLU, W/DK RD
TG, C1-C5


ROP (min/ft)
0
5
Gamma (API)
0
150
2400
2450
2500
2550
C
TOP
COTTONWOOD
2428' (-417)
WOB 30
RPM 80
PS 52
PP 750-800
TOP NEVA
2499'(-490)
TOP RED EAGLE
2548' (-539)
LS-WHT, FN XLN, SLI DOLOIC, NO STN, NO ODOR, SCAT YELLOW MINERAL FLU
LS-WHT, OFF WHT, SME V/LT GY, TR SLI OPA, FN XLN, MOTT IP, SME V/SCAT PP INT XLN PORO, NO STN, NO ODOR, SCAT YELLOW MINERAL FLU
LS-CRM, OFF WHT, TR LT GY, FN XLN, SLI MOTT, NSTLY DNS, V/SCAT YELLOW MINERAL FLU, W/DK RD TO DK GY SH
LS/SH-AAB
SH-DK GY, RD, FN TXT, PLTY, W/SME GY DNS SHLY LS
SH-AAB, W/SME CRM TO LT GY SHLY LS
LS-CRM, OFF WHT, FN XLN, FRM, NON-CHLKY, SLI DOLOIC, W/GY TO RD SH, YELLOW MINERAL FLU
TG, C1-C5
0
INSTRUMENT
CHECK @ GAS
TRAP
GAS MAX 32 U



DOLO-C/LT TN, CRM, FN XLN, SLI SUCROSIC, SLI CALC IP, NO STN, NO ODOR, SME YELLOW MINERAL FLU

LS-CRM, LT GY, FN XLN, SME SLI DOLO'IC, TR POSS DEAD OIL STN, MOTT IP, SHLY IP, SME GRDNG TO CALC SH, MSTLY NO FLU

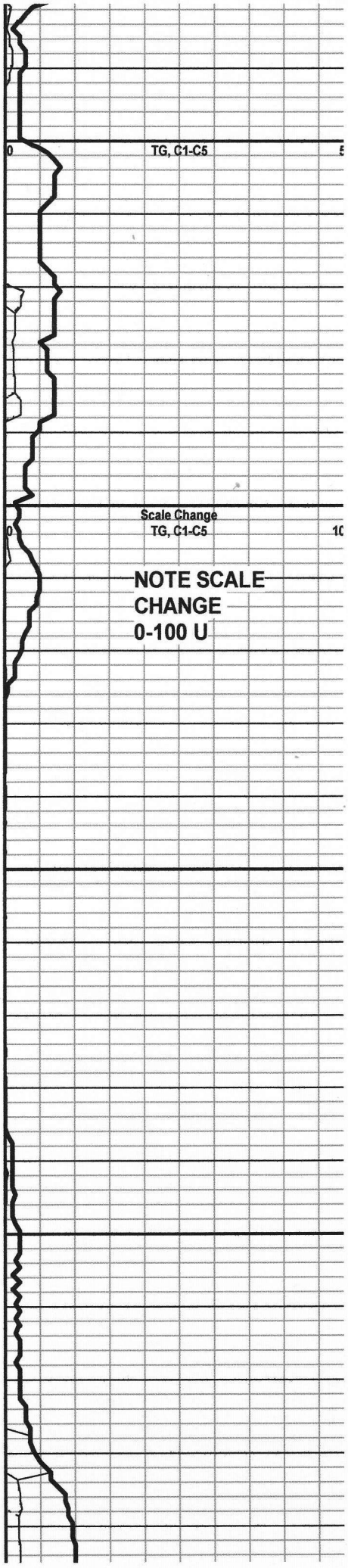
SH-DK GY, TR DK RD, FN TXT, BLKY

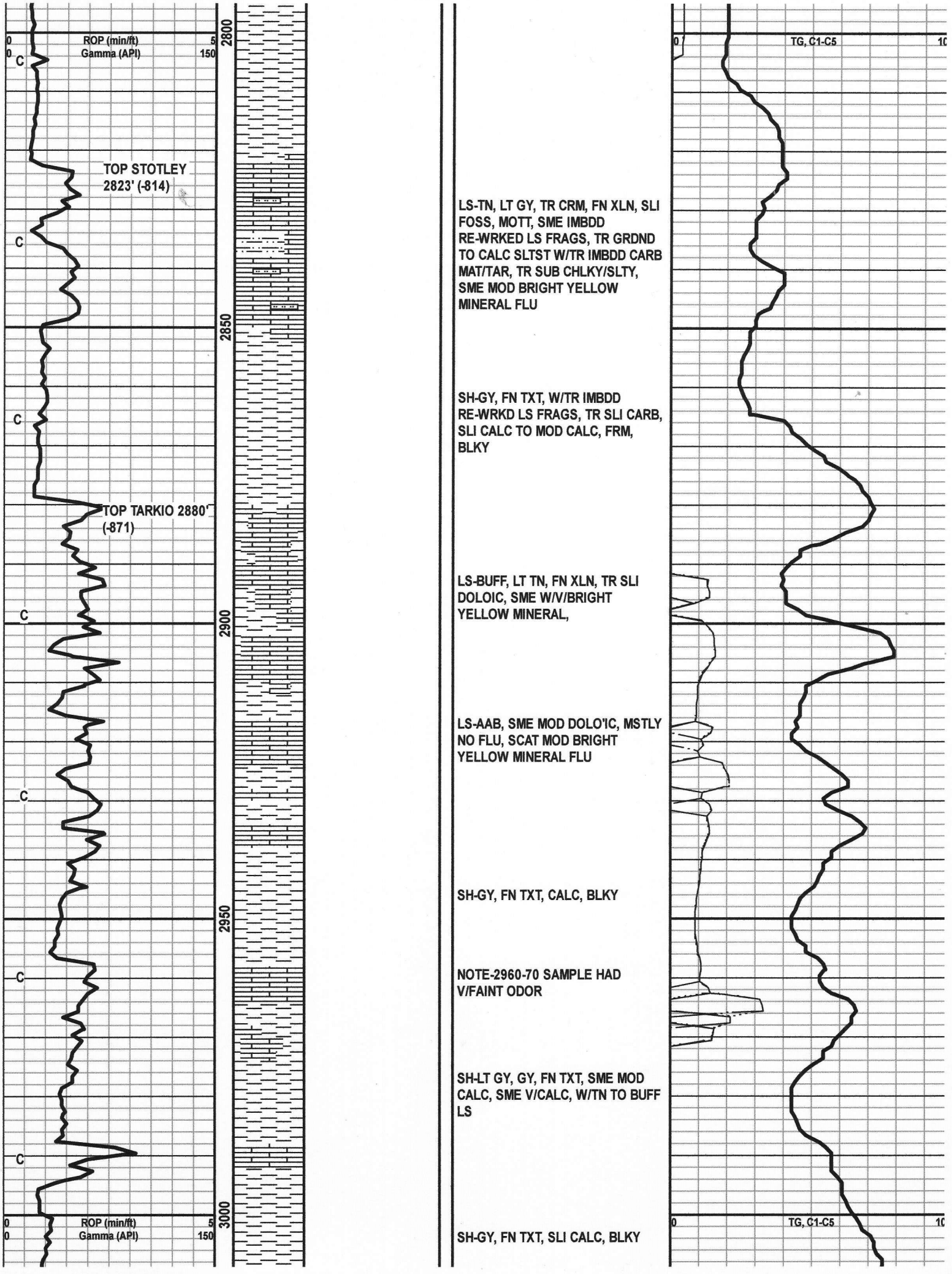
LS-LT TN, FN XLN, MSTLY NO FLU

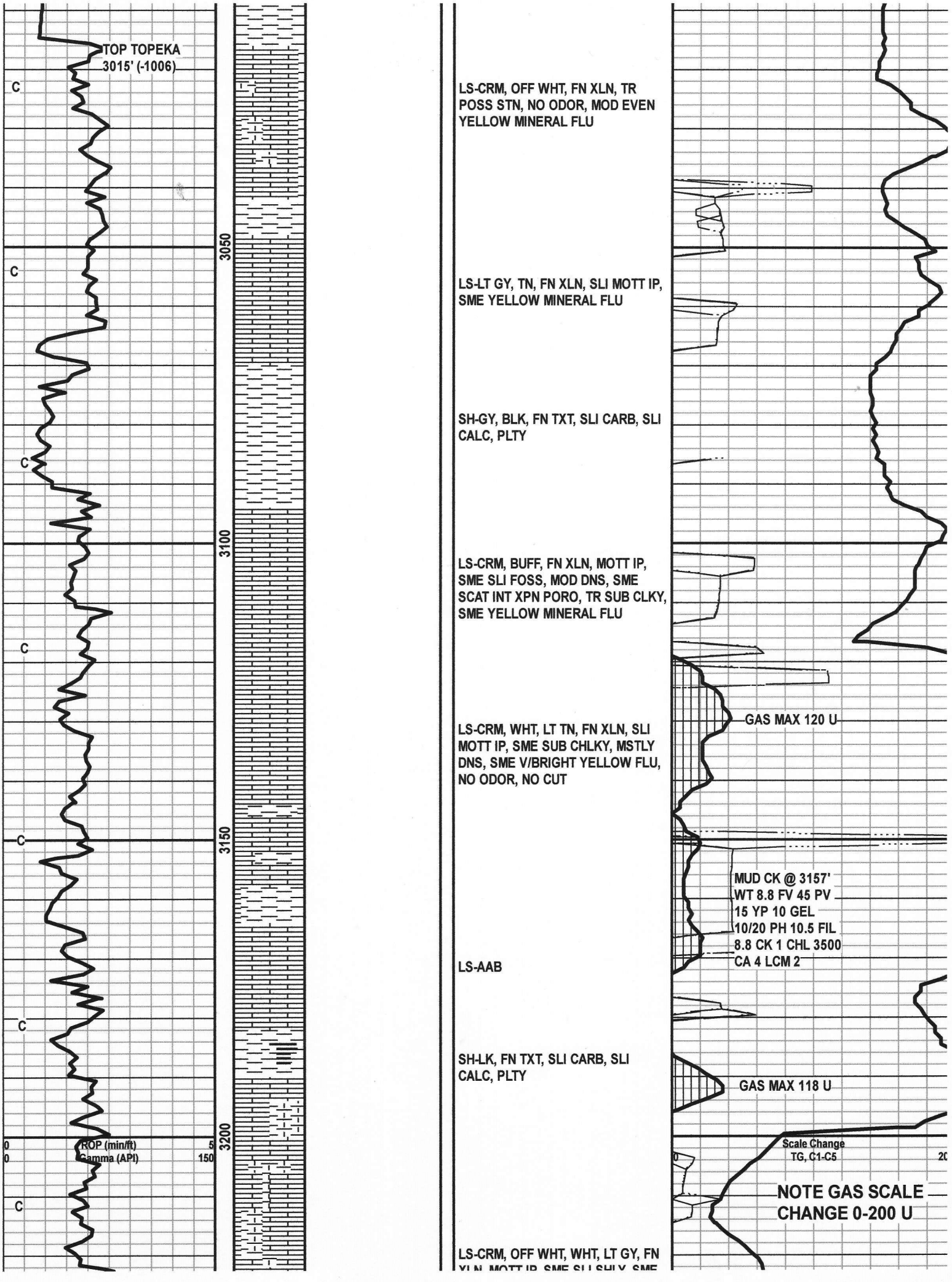
SH-LT GY, DK RD, TR DULL LT GREEN, FN TXT, SME MED TXT, SME SLI CALC, BLKY

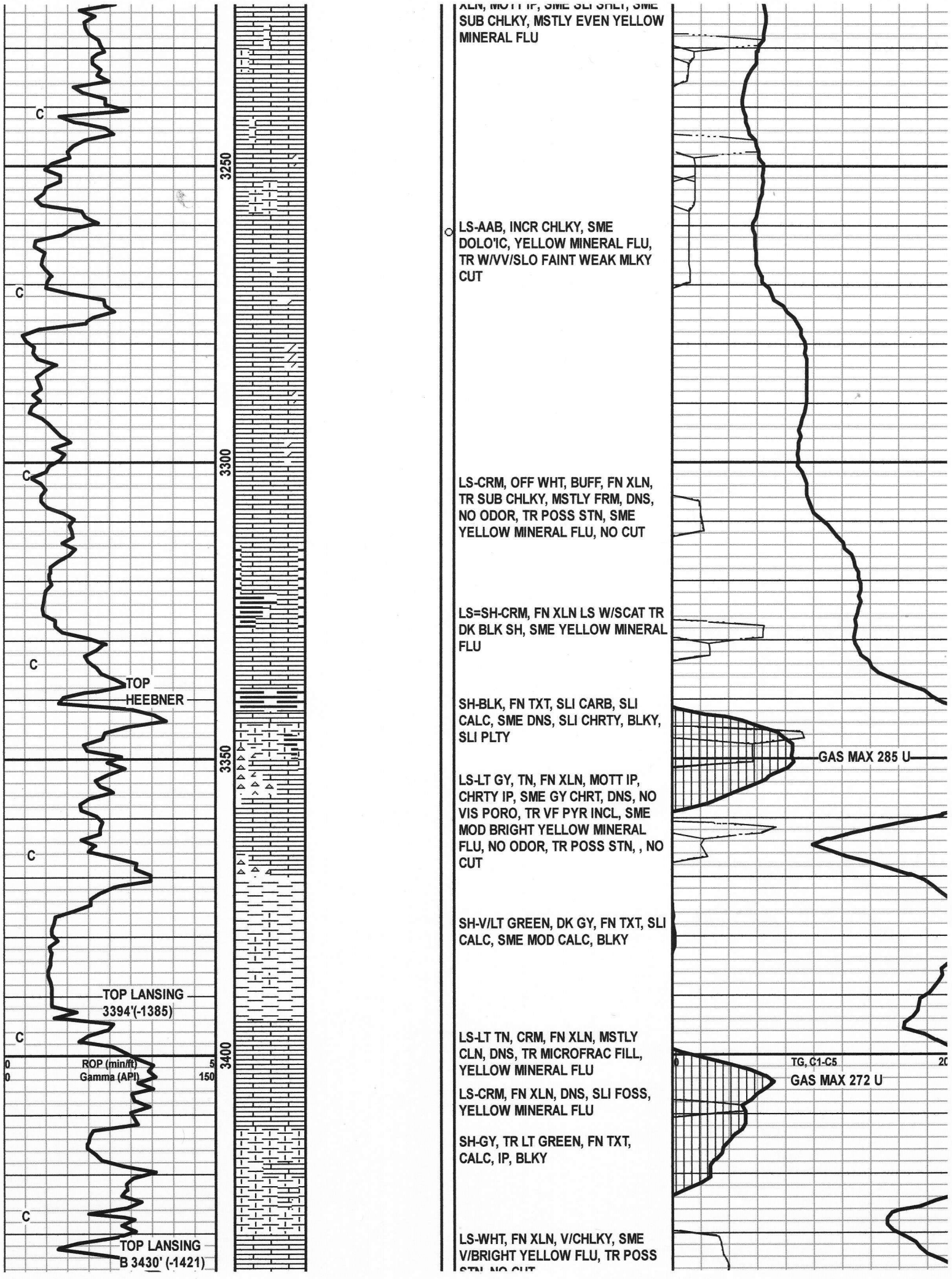
LS-CRM, LT GY, FN XLN, TR SLI SLTY, SLI MOTT IP, SME SCAT DULL YELLOW MINERAL FLU

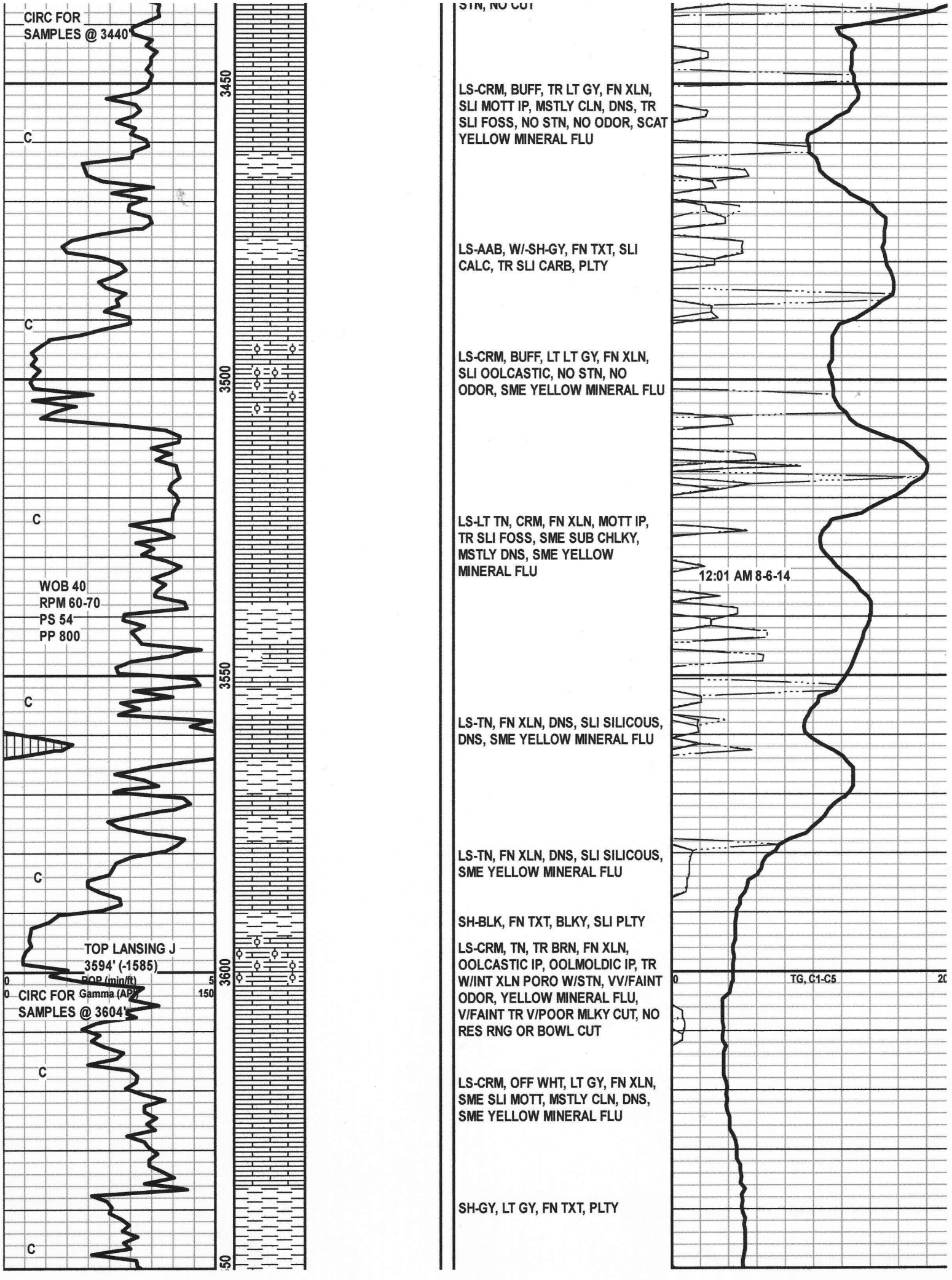
SH-LT GY, GY, FN TO MED TXT, CALC, SME CRM TO LT GY MOTT LS, BLKY

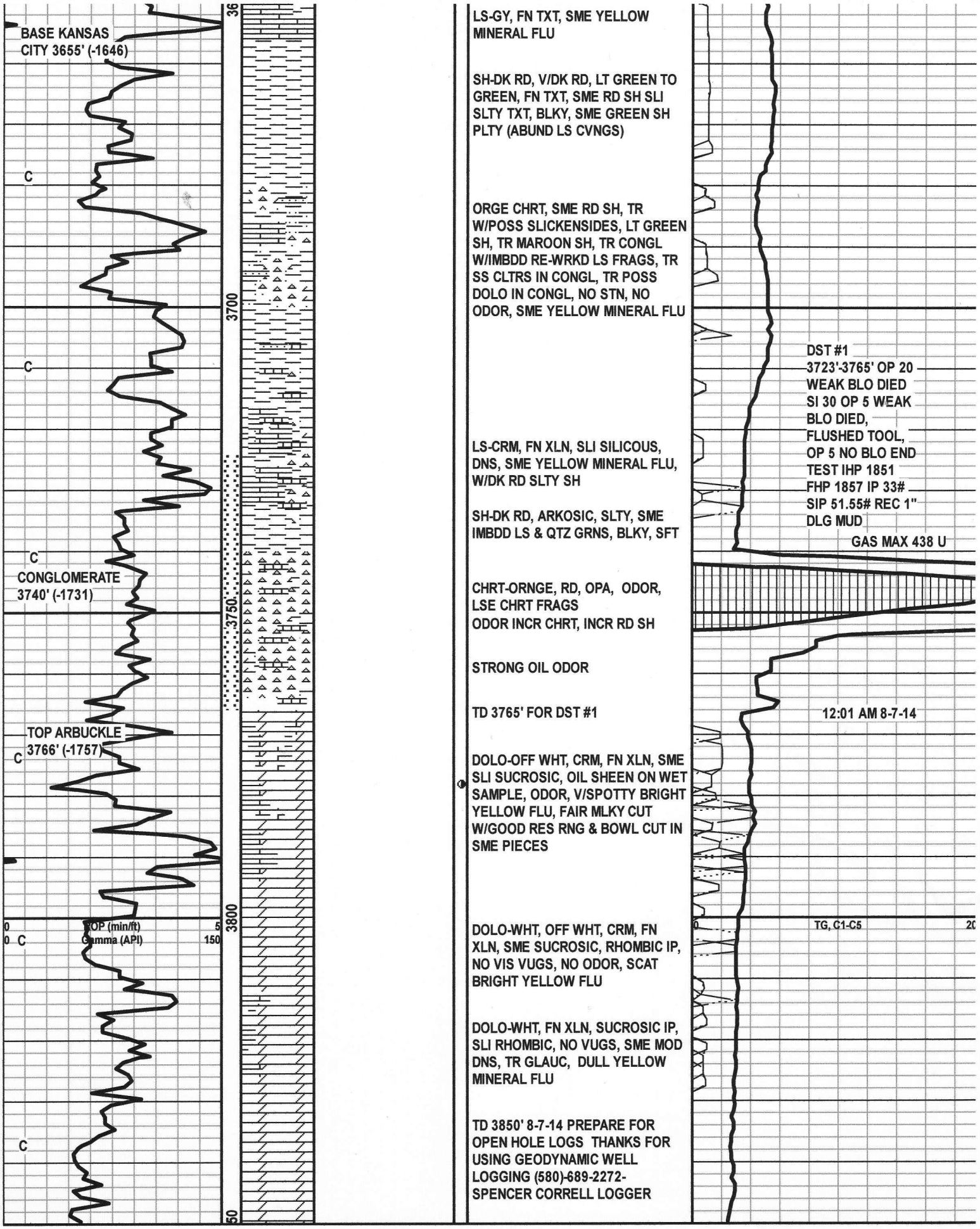



ROP (min/ft)
Gamma (API)
0
0
5
150
C
TOP STOTLEY
2823' (-814)
TOP TARKIO 2880'
(-871)
2800
2850
2900
2950
3000
LS-TN, LT GY, TR CRM, FN XLN, SLI FOSS, MOTT, SME IMBDD RE-WRKED LS FRAGS, TR GRDND TO CALC SLTST W/TR IMBDD CARB MAT/TAR, TR SUB CHLKY/SLTY, SME MOD BRIGHT YELLOW MINERAL FLU
SH-GY, FN TXT, W/TR IMBDD RE-WRKD LS FRAGS, TR SLI CARB, SLI CALC TO MOD CALC, FRM, BLKY
LS-BUFF, LT TN, FN XLN, TR SLI DOLOIC, SME W/V/BRIGHT YELLOW MINERAL,
LS-AAB, SME MOD DOLO'IC, MSTLY NO FLU, SCAT MOD BRIGHT YELLOW MINERAL FLU
SH-GY, FN TXT, CALC, BLKY
NOTE-2960-70 SAMPLE HAD V/FAINT ODOR
SH-LT GY, GY, FN TXT, SME MOD CALC, SME V/CALC, W/TN TO BUFF LS
SH-GY, FN TXT, SLI CALC, BLKY
TG, C1-C5
0
10


TOP TOPEKA
3015' (-1006)
C
C
C
C
C
C
3050
3100
3150
3200
0
ROP (min/ft)
5
0
Gamma (API)
150
LS-CRM, OFF WHT, FN XLN, TR POSS STN, NO ODOR, MOD EVEN YELLOW MINERAL FLU
LS-LT GY, TN, FN XLN, SLI MOTT IP, SME YELLOW MINERAL FLU
SH-GY, BLK, FN TXT, SLI CARB, SLI CALC, PLTY
LS-CRM, BUFF, FN XLN, MOTT IP, SME SLI FOSS, MOD DNS, SME SCAT INT XPN PORO, TR SUB CLKY, SME YELLOW MINERAL FLU
LS-CRM, WHT, LT TN, FN XLN, SLI MOTT IP, SME SUB CHLKY, MSTLY DNS, SME V/BRIGHT YELLOW FLU, NO ODOR, NO CUT
LS-AAB
SH-LK, FN TXT, SLI CARB, SLI CALC, PLTY
LS-CRM, OFF WHT, WHT, LT GY, FN
GAS MAX 120 U
MUD CK @ 3157'
WT 8.8 FV 45 PV
15 YP 10 GEL
10/20 PH 10.5 FIL
8.8 CK 1 CHL 3500
CA 4 LCM 2
GAS MAX 118 U
Scale Change
TG, C1-C5
0
20
NOTE GAS SCALE CHANGE 0-200 U


XLN, MOTT IP, SME SLI SHLY, SME
SUB CHLKY, MSTLY EVEN YELLOW
MINERAL FLU
LS-AAB, INCR CHLKY, SME
DOLO'IC, YELLOW MINERAL FLU,
TR W/VV/SLO FAINT WEAK MLKY
CUT
LS-CRM, OFF WHT, BUFF, FN XLN,
TR SUB CHLKY, MSTLY FRM, DNS,
NO ODOR, TR POSS STN, SME
YELLOW MINERAL FLU, NO CUT
LS=SH-CRM, FN XLN LS W/SCAT TR
DK BLK SH, SME YELLOW MINERAL
FLU
SH-BLK, FN TXT, SLI CARB, SLI
CALC, SME DNS, SLI CHRTY, BLKY,
SLI PLTY
GAS MAX 285 U
LS-LT GY, TN, FN XLN, MOTT IP,
CHRTY IP, SME GY CHRT, DNS, NO
VIS PORO, TR VF PYR INCL, SME
MOD BRIGHT YELLOW MINERAL
FLU, NO ODOR, TR POSS STN, , NO
CUT
SH-V/LT GREEN, DK GY, FN TXT, SLI
CALC, SME MOD CALC, BLKY
LS-LT TN, CRM, FN XLN, MSTLY
CLN, DNS, TR MICROFRAC FILL,
YELLOW MINERAL FLU
LS-CRM, FN XLN, DNS, SLI FOSS,
YELLOW MINERAL FLU
SH-GY, TR LT GREEN, FN TXT,
CALC, IP, BLKY
LS-WHT, FN XLN, V/CHLKY, SME
V/BRIGHT YELLOW FLU, TR POSS
C
C
C
C
C
C
C
C
TOP
HEEBNER
TOP LANSING
3394'(-1385)
TOP LANSING
B 3430' (-1421)
3250
3300
3350
3400
0
0
ROP (min/ft)
Gamma (API)
5
150
TG, C1-C5
GAS MAX 272 U


CIRC FOR SAMPLES @ 3440'
3450
C
C
3500
C
WOB 40
RPM 60-70
PS 54
PP 800
C
3550
C
TOP LANSING J
3594' (-1585)
0
ROP (min/ft)
5
0
CIRC FOR
Gamma (API)
150
SAMPLES @ 3604'
3600
C
C
50
STN, NO CUT
LS-CRM, BUFF, TR LT GY, FN XLN, SLI MOTT IP, MSTLY CLN, DNS, TR SLI FOSS, NO STN, NO ODOR, SCAT YELLOW MINERAL FLU
LS-AAB, W/-SH-GY, FN TXT, SLI CALC, TR SLI CARB, PLTY
LS-CRM, BUFF, LT LT GY, FN XLN, SLI OOLCASTIC, NO STN, NO ODOR, SME YELLOW MINERAL FLU
LS-LT TN, CRM, FN XLN, MOTT IP, TR SLI FOSS, SME SUB CHLKY, MSTLY DNS, SME YELLOW MINERAL FLU
12:01 AM 8-6-14
LS-TN, FN XLN, DNS, SLI SILICOUS, DNS, SME YELLOW MINERAL FLU
LS-TN, FN XLN, DNS, SLI SILICOUS, SME YELLOW MINERAL FLU
SH-BLK, FN TXT, BLKY, SLI PLTY
LS-CRM, TN, TR BRN, FN XLN, OOLCASTIC IP, OOLMOLDIC IP, TR W/INT XLN PORO W/STN, VV/FAINT ODOR, YELLOW MINERAL FLU, V/FAINT TR V/POOR MLKY CUT, NO RES RNG OR BOWL CUT
0
TG, C1-C5
20
LS-CRM, OFF WHT, LT GY, FN XLN, SME SLI MOTT, MSTLY CLN, DNS, SME YELLOW MINERAL FLU
SH-GY, LT GY, FN TXT, PLTY


BASE KANSAS CITY 3655' (-1646)
C
C
C
CONGLOMERATE 3740' (-1731)
TOP ARBUCKLE 3766' (-1757)
C
C
0
0 C
ROP (min/ft)
Gamma (API)
5
150
3600
3700
3750
3800
LS-GY, FN TXT, SME YELLOW MINERAL FLU
SH-DK RD, V/DK RD, LT GREEN TO GREEN, FN TXT, SME RD SH SLI SLTY TXT, BLKY, SME GREEN SH PLTY (ABUND LS CVNGS)
ORGE CHRT, SME RD SH, TR W/POSS SLICKENSIDES, LT GREEN SH, TR MAROON SH, TR CONGL W/IMBDD RE-WRKD LS FRAGS, TR SS CLTRS IN CONGL, TR POSS DOLO IN CONGL, NO STN, NO ODOR, SME YELLOW MINERAL FLU
LS-CRM, FN XLN, SLI SILICOUS, DNS, SME YELLOW MINERAL FLU, W/DK RD SLTY SH
SH-DK RD, ARKOSIC, SLTY, SME IMBDD LS & QTZ GRNS, BLKY, SFT
CHRT-ORNGE, RD, OPA, ODOR, LSE CHRT FRAGS
ODOR INCR CHRT, INCR RD SH
STRONG OIL ODOR
TD 3765' FOR DST #1
DOLO-OFF WHT, CRM, FN XLN, SME SLI SUCROSIC, OIL SHEEN ON WET SAMPLE, ODOR, V/SPOTTY BRIGHT YELLOW FLU, FAIR MLKY CUT W/GOOD RES RNG & BOWL CUT IN SME PIECES
DOLO-WHT, OFF WHT, CRM, FN XLN, SME SUCROSIC, RHOMBIC IP, NO VIS VUGS, NO ODOR, SCAT BRIGHT YELLOW FLU
DOLO-WHT, FN XLN, SUCROSIC IP, SLI RHOMBIC, NO VUGS, SME MOD DNS, TR GLAUC, DULL YELLOW MINERAL FLU
TD 3850' 8-7-14 PREPARE FOR OPEN HOLE LOGS THANKS FOR USING GEODYNAMIC WELL LOGGING (580)-689-2272- SPENCER CORRELL LOGGER
DST #1
3723'-3765' OP 20 WEAK BLO DIED SI 30 OP 5 WEAK BLO DIED, FLUSHED TOOL, OP 5 NO BLO END
TEST IHP 1851 FHP 1857 IP 33# SIP 51.55# REC 1" DLG MUD
GAS MAX 438 U
12:01 AM 8-7-14
0
TG, C1-C5
20

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

Well Name:	**Red Mountain Resources**	**Besperat**	
Well Id:			
Location:	**Section 18-T18S-R17W**	**Rush County, Kansas**	
License Number:	**15-165-22085-00-00**	**Region:**	
Spud Date:	**8/1/2014**	**Drilling Completed:**	**8-7-14**
Surface Coordinates:	**750' FSL &930' FEL**		
Bottom Hole Coordinates:	**As above**		
Ground Elevation (ft):	**1,999'**	**K.B. Elevation (ft):**	**2009'**
Logged Interval (ft):	**200 To: 3850**	**Total Depth (ft):**	**3850**
Formation:	**ALLUVIUM /ARBUCKLE**		
Type of Drilling Fluid:	**NATIVE/CHEM FRESH**		

OPERATOR

Company: Red Mountain Resources
Address: 2515 McKinney Avenue, Suite 900
Dallas, Texas 75201

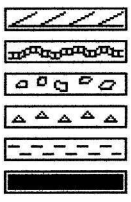
GEOLOGIST

Name: Dick Jackson
Company: Red Mountain Resources
Address: 2515 McKinney Avenue, Suite 900
Dallas, Texas 75201

Comments

VAL ENERGY RIG 6 SAMPLES
GEODYNAMIC LOGGING UNIT 16
LOGGER SPENCER CORRELL

ROCK TYPES



Anhy
Bent
Brec
Cht
Clyst
Coal
Congl
Dol
Gyp
Igne
Lmst
Meta
Mrlst
Salt
Shale
Shcol
Shgy
Sltst
Ss
Till
sdy sh
calc sh
shale
carb sh

ACCESSORIES

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

FOSSIL

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

STRINGER

Anhy
Arg
Bent
Coal
Dol
Gyp
Ls
Mrst
Sltstrg
Ssstrg

TEXTURE

BS Boundst
C Chalky
CX CryxIn
E Earthy
FX FinexIn
GS Grainst
L Lithogr
MX MicroxIn
MS Mudst
PS Packst
WS Wackest

OTHER SYMBOLS

POROSITY TYPE

E Earthy
F Fenest
F Fracture
I Inter
M Moldic
O Organic
P Pinpoint
V Vuggy

SORTING

W Well
M Moderate
P Poor

ROUNDING

R Rounded
r Subrnd
a Subang
A Angular

OIL SHOWS

Even
Spotted
Ques
Dead

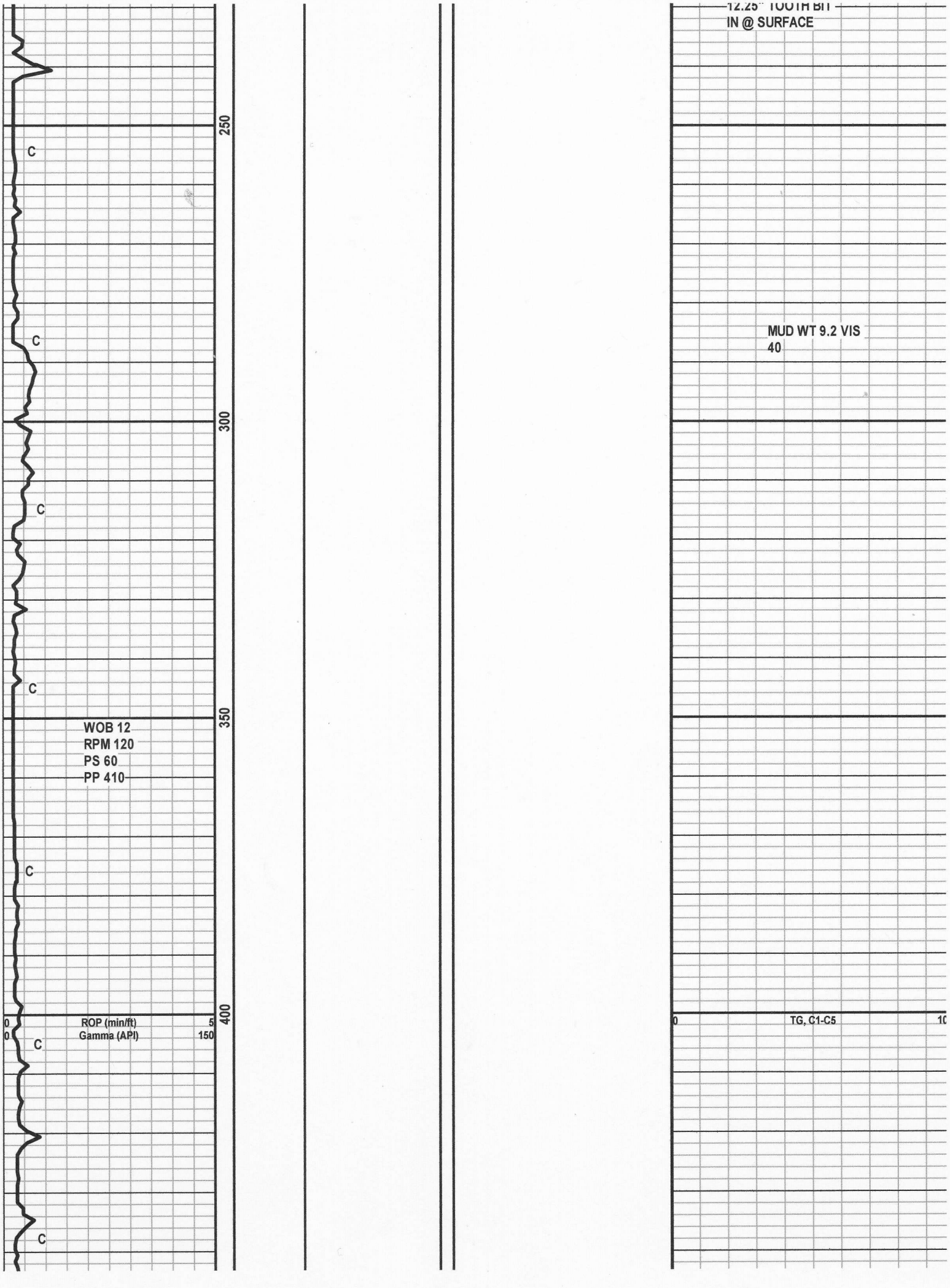
INTERVALS

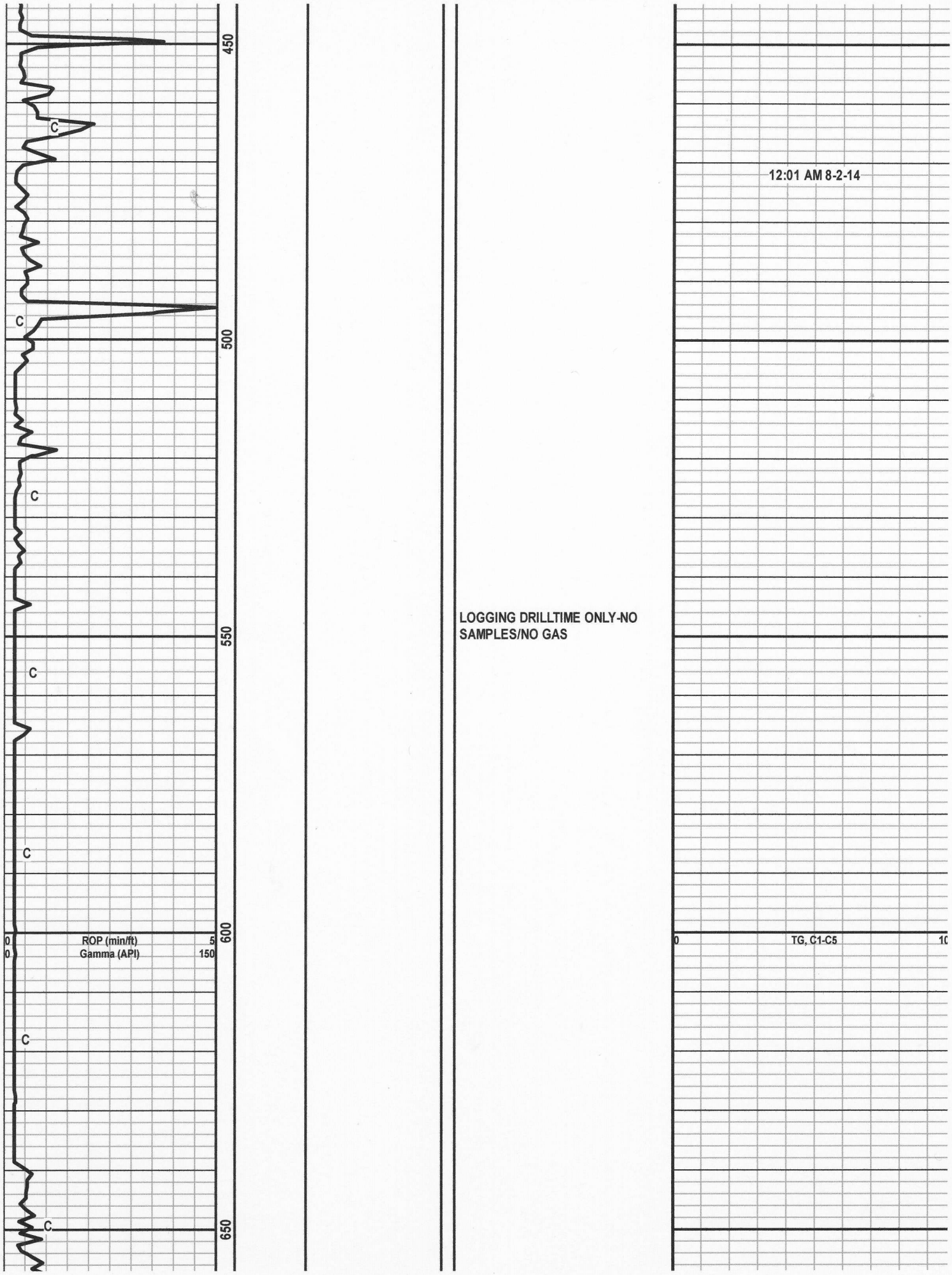
Core
Dst

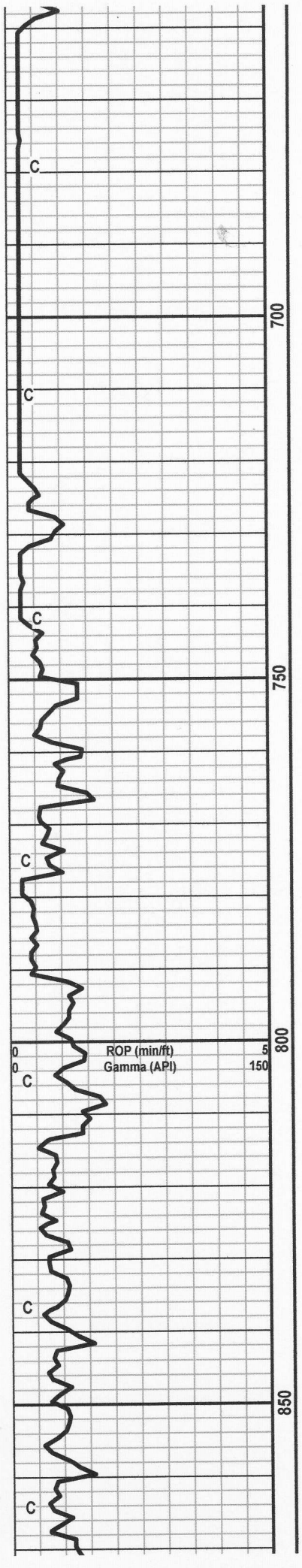
EVENTS

Rft
Sidewall

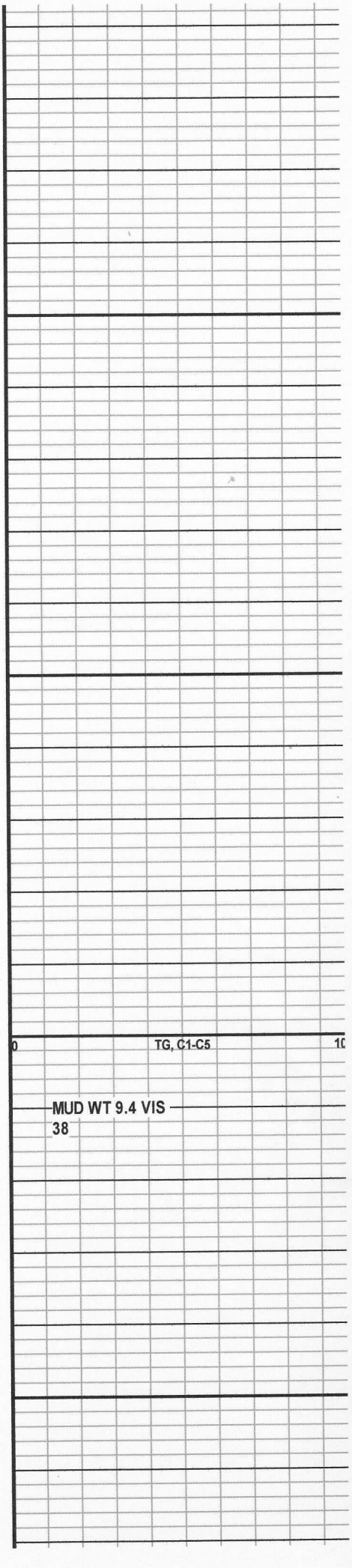
Curve Track 1 ROP (min/ft) Gamma (API)	Depth	% Lithology	Sample Photos	Oil Shows	Geological Descriptions	TG, C1-C5 TG (units) C1 (units) C2 (units) C3 (units) C4 (units) C5 (units)
0 ROP (min/ft) 5 0 Gamma (API) 150	2				SPUD 8-1-14 BEGIN ONE MAN LOGGING OPERATIONS @ 200' 8-1-14 LOGGING DRILLTIME ONLY-NO SAMPLES/NO GAS	0 TG, C1-C5 10 BIT # 1 REED

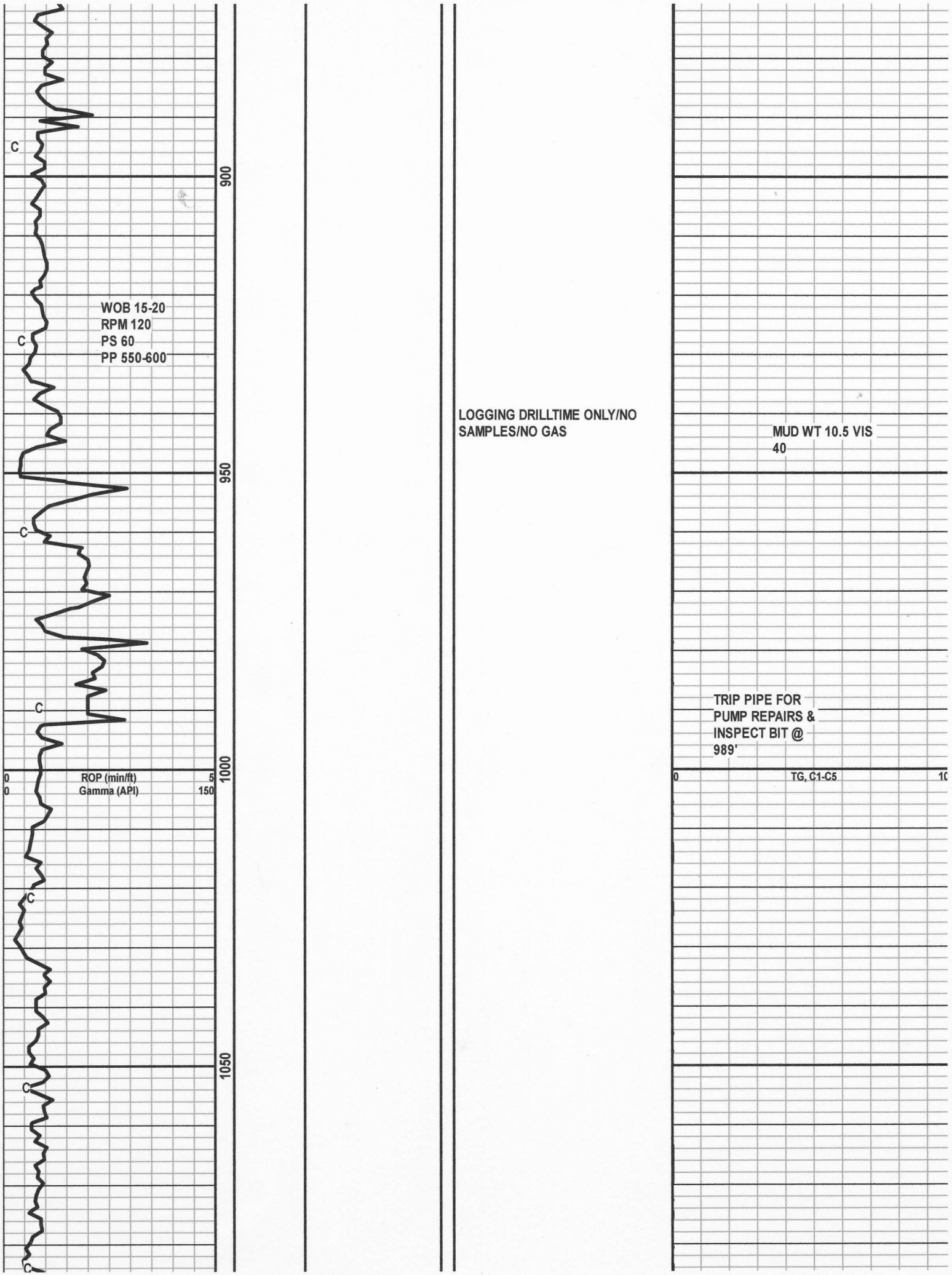

12.25" TOOTH BIT
IN @ SURFACE
MUD WT 9.2 VIS
40
250
300
350
400
C
WOB 12
RPM 120
PS 60
PP 410
0
0
ROP (min/ft)
Gamma (API)
5
150
0
TG, C1-C5
10

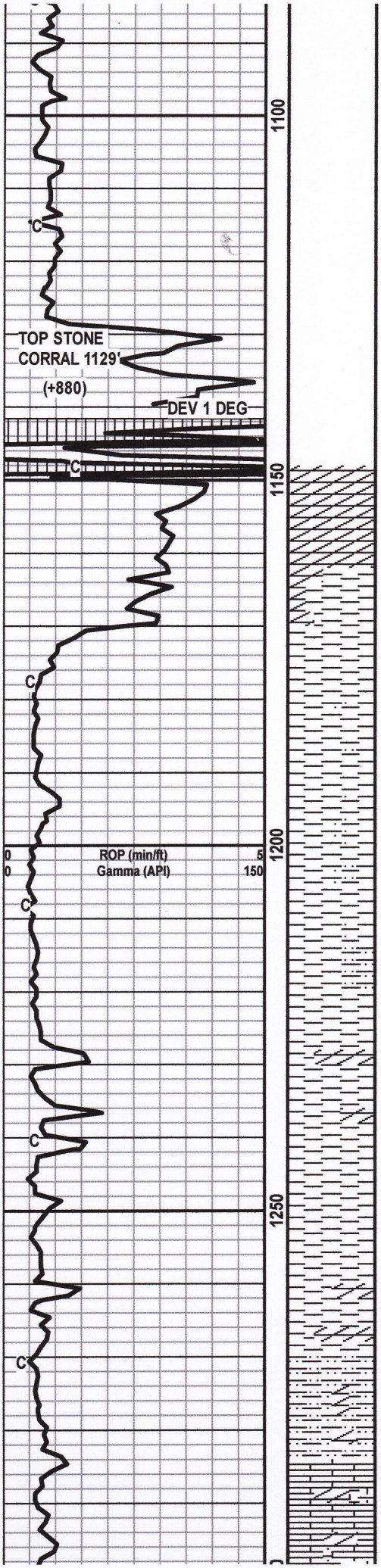

450
500
550
600
650
C
C
C
C
C
C
0
0
ROP (min/ft)
Gamma (API)
5
150
LOGGING DRILLTIME ONLY-NO
SAMPLES/NO GAS
12:01 AM 8-2-14
0
TG, C1-C5
10



LOGGING DRILLTIME ONLY- NO SAMPLES /NO GAS




C
C
C
C
C
C
900
950
1000
1050
WOB 15-20
RPM 120
PS 60
PP 550-600
0
0
ROP (min/ft)
Gamma (API)
5
150
LOGGING DRILLTIME ONLY/NO SAMPLES/NO GAS
MUD WT 10.5 VIS 40
TRIP PIPE FOR PUMP REPAIRS & INSPECT BIT @ 989'
0
TG, C1-C5
10



LOGGING DRILLTIME ONLY NO SAMPLES/NO GAS

SET 8 5/8" CASING @ 1140' 8-2-14

DRLD APPOX 50' CEMENT IN CASING GOOD FIRM CEMENT..

BEGIN CATCHING SAMPLES, MUD FLOW TO AGITATOR/GAS TRAP

ANHY-OFF WHT, CRM, FN TO CRYPTOXLN, DNS, V/FAINT LT YELLOW MINERAL FLU

SH-RD, GY, FN TXT, SLTY IP, SFT, GUMMY IP, CLYEY IP

ANHY-CRM, LT GY, FN TO CRYPTOXLN, SLI CALC, DNS, NO FLU, W/SH AAB

SLTST-GY, SHLY, SLI ANHYDRITIC

LS-CRM, V/LT GY, FN TO CRYPTOXLN, ANHYDRITIC, SME GRDNG TO CALC ANHY, DNS, NO VIS PORO, SME VVF IMBDD CLR

MUD WT 10.7 VIS 37

DRLG TO 1:30PM 8-2-14, CIRC, TOH FOR CASING RAN 28 JNTS 8 5/8" 23# CASING TO 1140, CEMENT, NIPPLE UP 7AM 8-3-14

12:01AM 8-3-14

Scale Change

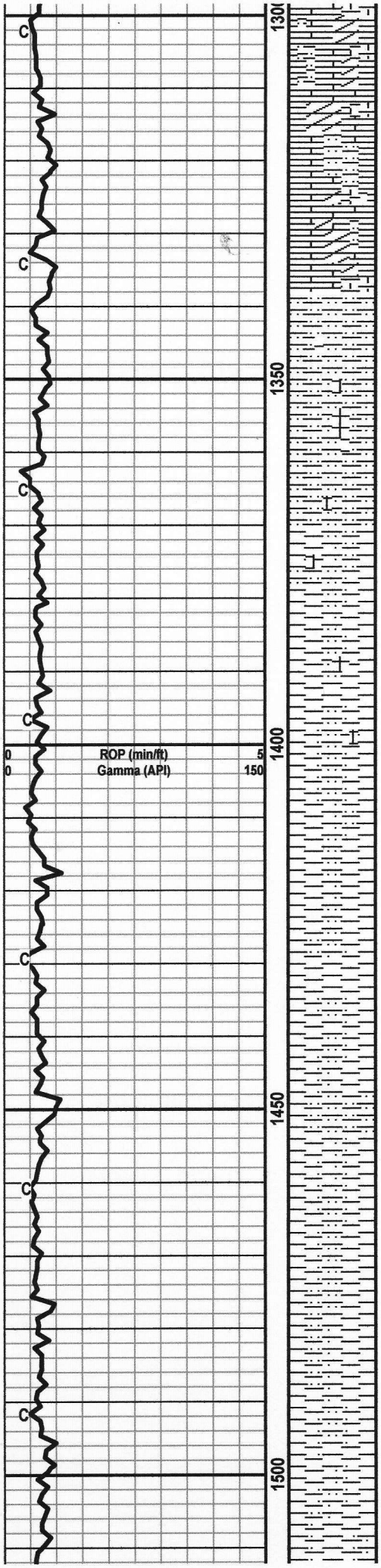
0 TG, C1-C5

NOTE GAS SCALE CHANGE 0-50 U

NEW BIT #2 7 7/8" REED TYPE 20 TRI CONE IN @ 1140'

MUD CK @ 1164' WT 8.6 FV 27 CK 1/32, FIL N/C

0 TG, C1-C5



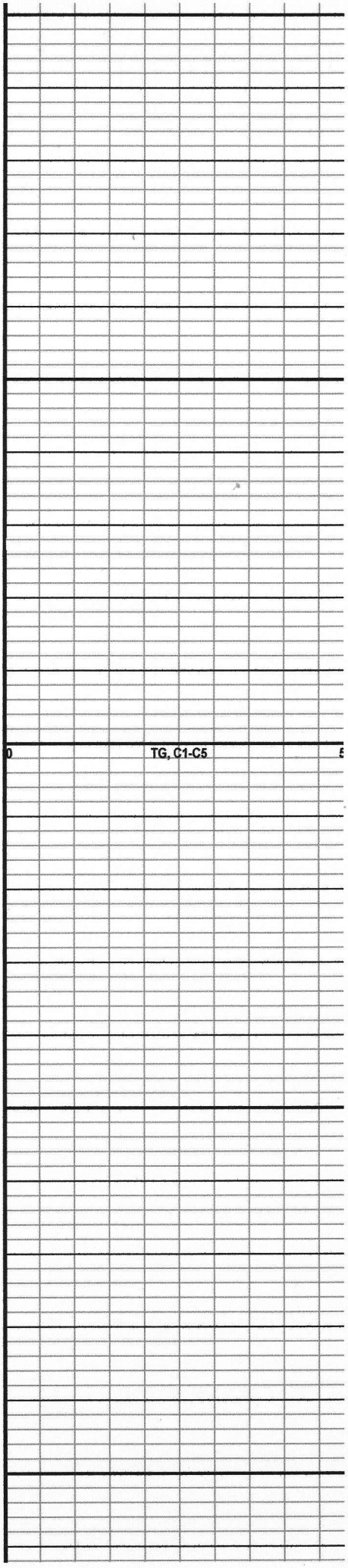
QTZ GRNS, SLI SNDY IP, V/SCAT TR MOD BRIGHT YELLOW MINERAL FLU

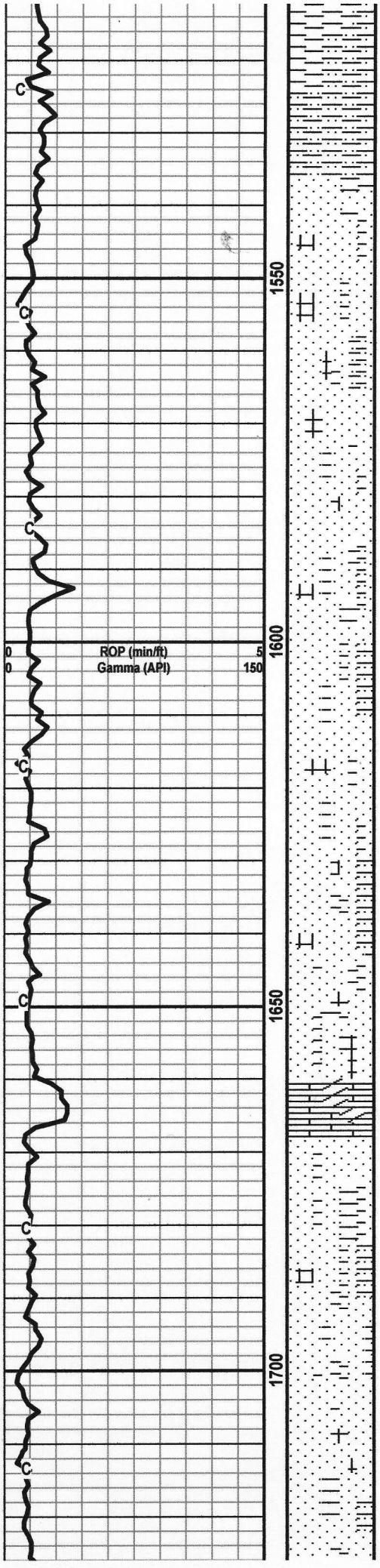
SH-RD, MED TO RUFF TXT, SLTY, SME VVF IMBDD HALITE X-TALS, SME GRDNG TO SHLY SLTST, SFT

SH-LT RD, RD, FN TO RUFF SLTY TXT, GRDNG TO SLTST, ABUND VVF LSE OPA TO MLKY QTZ GRNS, TR VVF K-FLDSPRS, TR VVF RE-WRKD LS FRAGS, TR VVF IMBDD HALITE X-TALS, NO FLU IN SAMPLES

SH/SLTST AAB

SH-GY, LT GY, SME RDDISH, MED TO RUFF SLTY TXT, TR FN TXT, ABUND LSE VVF QTZ GRNS, GRDNG TO SHLY SLTST IP, SFT





SLTST-V/LT GY, PRED LSE VVF QTZ GRNS, TR VVF K-FLDSPRS & POSS TR ALBITE, NO FLU

NOTE SLIGHT GAS INCREASE

SS-LT GY, OFF WHT, REDDISH, VVF TO FN GR, MOD W/SRTD, SUB RNDD, V/SCAT TR FN CLSTRS, SME VF HALITE X-TALS, MSTLY LSE QTZ GRNS W/TR FN K-FLDSPR FRAGS, SME GY SH, SME FN PYR, NO STN, NO ODOR, NO FLU

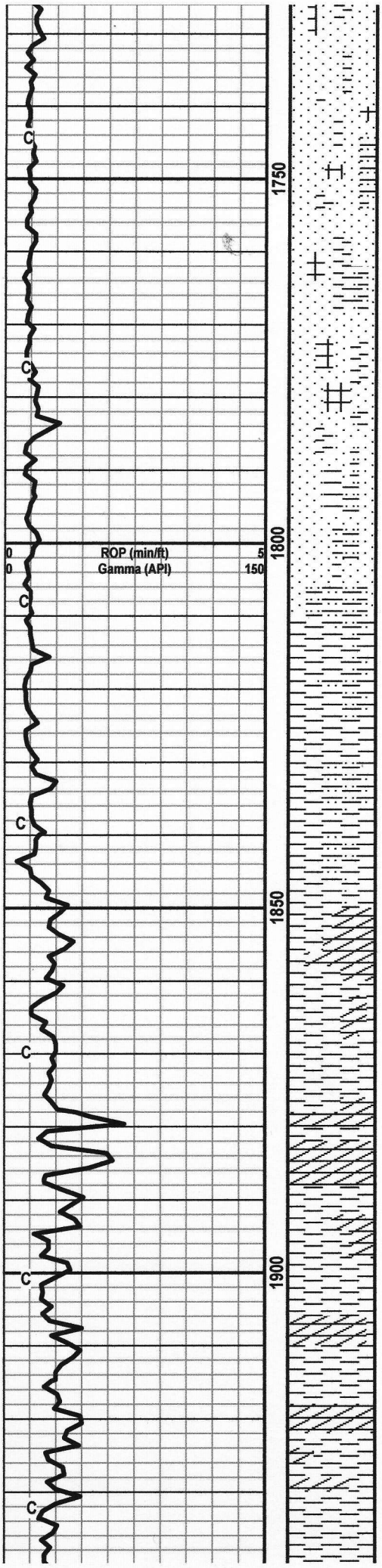
SS-AAB

0 TG, C1-C5 5

SS-V/LT GY, OFF WHT, VFG, FN GR, MOD W/SRTD, SUB RNDD, PRED LSE VVF TO VF QTZ GRNS, SME SMALL FRI CLSTRS, NO FLU

ANHY-TN, FN XLN, CALC, SNDY, NO FLU

SS-OFF WHT, V/LT GY, SME RDDISH, FN TO VF GR, MOD W/SRTD, SUB RNDD TO SUB ANG, PRED LSE OPA QTZ GRNS, SME VVF HALITE X-TALS, SME SMALL FRI CLSTRS, SHLY IP, NO FLU



SS-OPA, OFF WHT, LT GY, SME RDDISH, FN GR, MOD W/SRTD, SUB ANG, PRED LSE QTZ GRNS , SME VF HALITE X-TALS, NO STN, NO ODOR, NO FLU

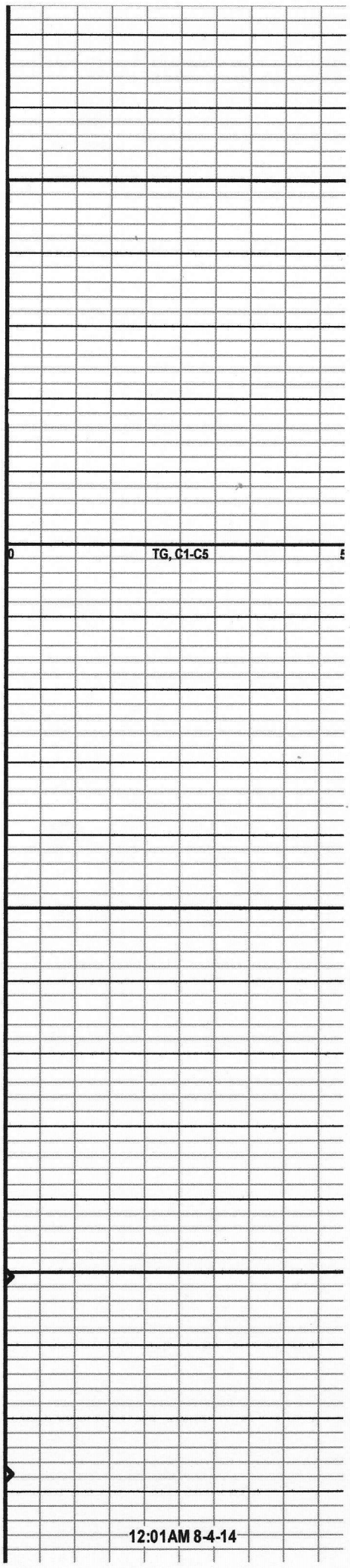
SS/SLTST

SH-RD, GY, FN TXT, SME ANHY, ABUND SS/SLTST CVNGS, BLKY

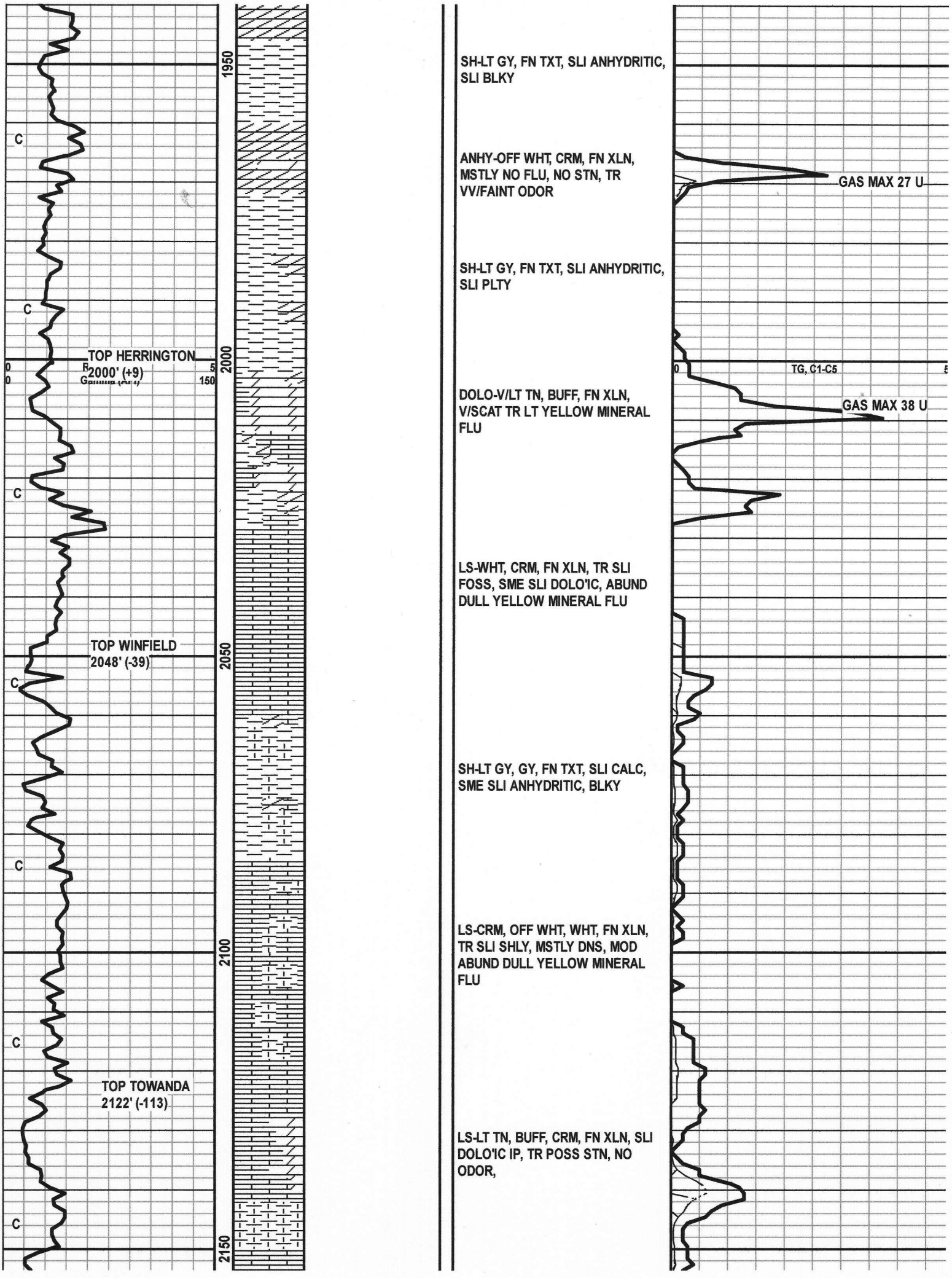
ANHY-OPA, MLKY, FN XLN, NO FLU

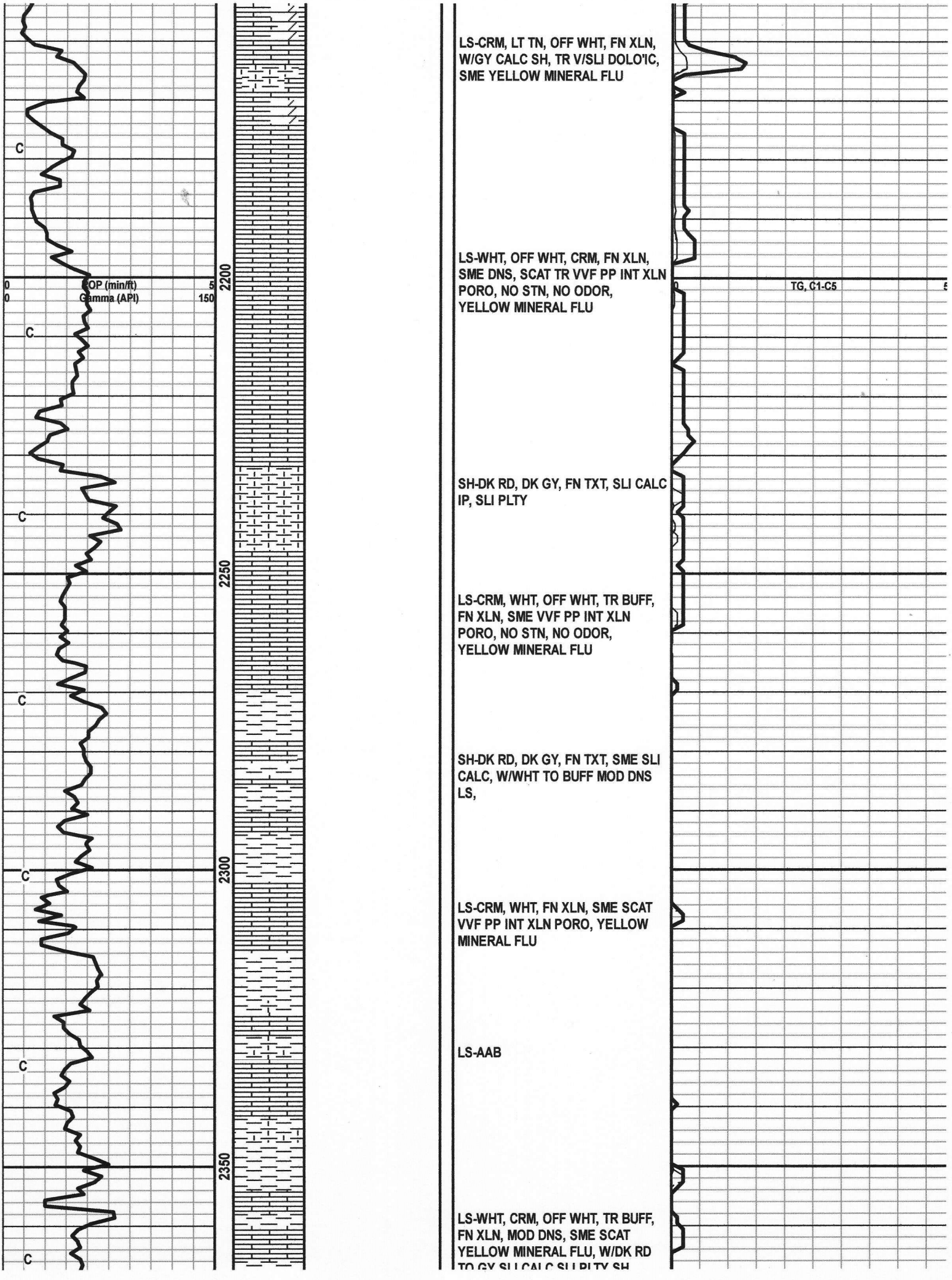
ANHY-OPA, CRM. MLKY, FN XLN, MSTLY DNS, NO STN, NO ODOR, NO FLU

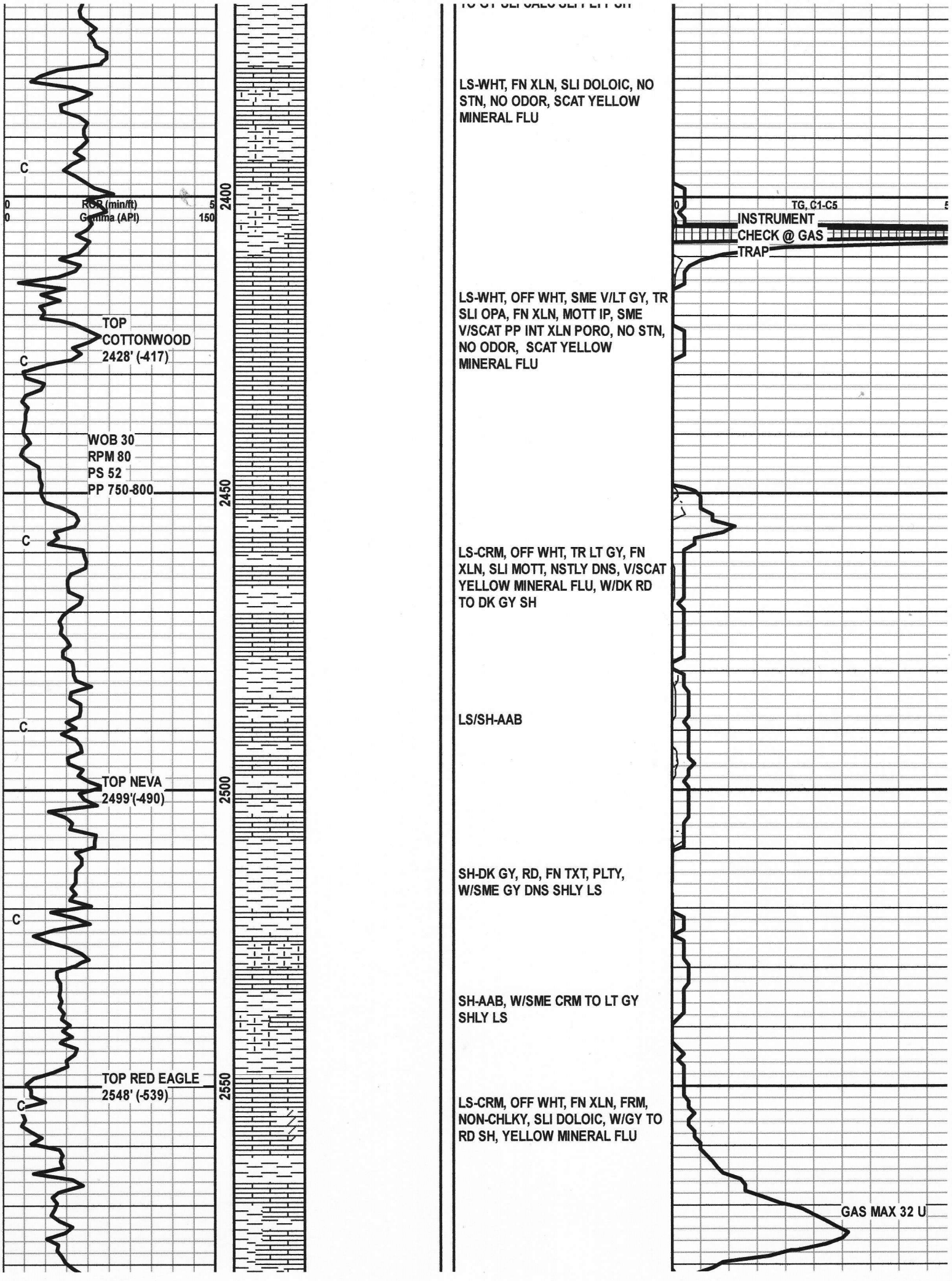
ANHY-WHT, CRM, OFF WHT, TR OPA, FN XLN, DNS, MSTLY NO FLU

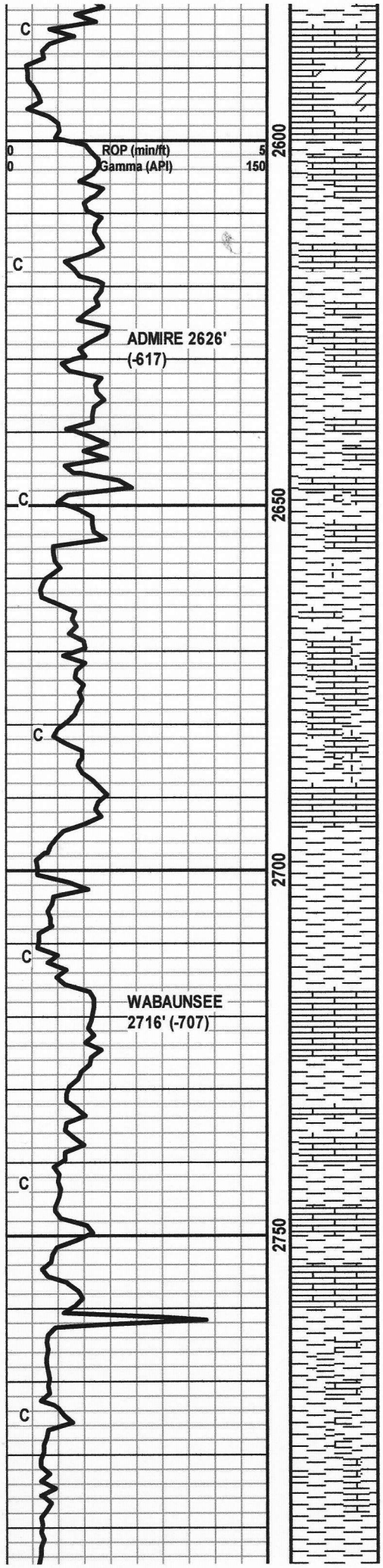


12:01AM 8-4-14


1950
2000
2050
2100
2150
C
C
C
C
C
C
TOP HERRINGTON
2000' (+9)
TOP WINFIELD
2048' (-39)
TOP TOWANDA
2122' (-113)
SH-LT GY, FN TXT, SLI ANHYDRITIC, SLI BLKY
ANHY-OFF WHT, CRM, FN XLN, MSTLY NO FLU, NO STN, TR VV/FAINT ODOR
SH-LT GY, FN TXT, SLI ANHYDRITIC, SLI PLTY
DOLO-V/LT TN, BUFF, FN XLN, V/SCAT TR LT YELLOW MINERAL FLU
LS-WHT, CRM, FN XLN, TR SLI FOSS, SME SLI DOLO'IC, ABUND DULL YELLOW MINERAL FLU
SH-LT GY, GY, FN TXT, SLI CALC, SME SLI ANHYDRITIC, BLKY
LS-CRM, OFF WHT, WHT, FN XLN, TR SLI SHLY, MSTLY DNS, MOD ABUND DULL YELLOW MINERAL FLU
LS-LT TN, BUFF, CRM, FN XLN, SLI DOLO'IC IP, TR POSS STN, NO ODOR,
GAS MAX 27 U
TG, C1-C5
GAS MAX 38 U


0
ROP (min/ft)
5
0
Gamma (API)
150
C
2200
2250
2300
2350
LS-CRM, LT TN, OFF WHT, FN XLN, W/GY CALC SH, TR V/SLI DOLO'IC, SME YELLOW MINERAL FLU
LS-WHT, OFF WHT, CRM, FN XLN, SME DNS, SCAT TR VVF PP INT XLN PORO, NO STN, NO ODOR, YELLOW MINERAL FLU
SH-DK RD, DK GY, FN TXT, SLI CALC IP, SLI PLTY
LS-CRM, WHT, OFF WHT, TR BUFF, FN XLN, SME VVF PP INT XLN PORO, NO STN, NO ODOR, YELLOW MINERAL FLU
SH-DK RD, DK GY, FN TXT, SME SLI CALC, W/WHT TO BUFF MOD DNS LS,
LS-CRM, WHT, FN XLN, SME SCAT VVF PP INT XLN PORO, YELLOW MINERAL FLU
LS-AAB
LS-WHT, CRM, OFF WHT, TR BUFF, FN XLN, MOD DNS, SME SCAT YELLOW MINERAL FLU, W/DK RD
TG, C1-C5


ROP (min/ft)
0
5
Gamma (API)
0
150
2400
2450
2500
2550
C
TOP
COTTONWOOD
2428' (-417)
WOB 30
RPM 80
PS 52
PP 750-800
TOP NEVA
2499'(-490)
TOP RED EAGLE
2548' (-539)
LS-WHT, FN XLN, SLI DOLOIC, NO STN, NO ODOR, SCAT YELLOW MINERAL FLU
LS-WHT, OFF WHT, SME V/LT GY, TR SLI OPA, FN XLN, MOTT IP, SME V/SCAT PP INT XLN PORO, NO STN, NO ODOR, SCAT YELLOW MINERAL FLU
LS-CRM, OFF WHT, TR LT GY, FN XLN, SLI MOTT, NSTLY DNS, V/SCAT YELLOW MINERAL FLU, W/DK RD TO DK GY SH
LS/SH-AAB
SH-DK GY, RD, FN TXT, PLTY, W/SME GY DNS SHLY LS
SH-AAB, W/SME CRM TO LT GY SHLY LS
LS-CRM, OFF WHT, FN XLN, FRM, NON-CHLKY, SLI DOLOIC, W/GY TO RD SH, YELLOW MINERAL FLU
TG, C1-C5
0
INSTRUMENT
CHECK @ GAS
TRAP
GAS MAX 32 U



DOLO-C/LT TN, CRM, FN XLN, SLI SUCROSIC, SLI CALC IP, NO STN, NO ODOR, SME YELLOW MINERAL FLU

LS-CRM, LT GY, FN XLN, SME SLI DOLO'IC, TR POSS DEAD OIL STN, MOTT IP, SHLY IP, SME GRDNG TO CALC SH, MSTLY NO FLU

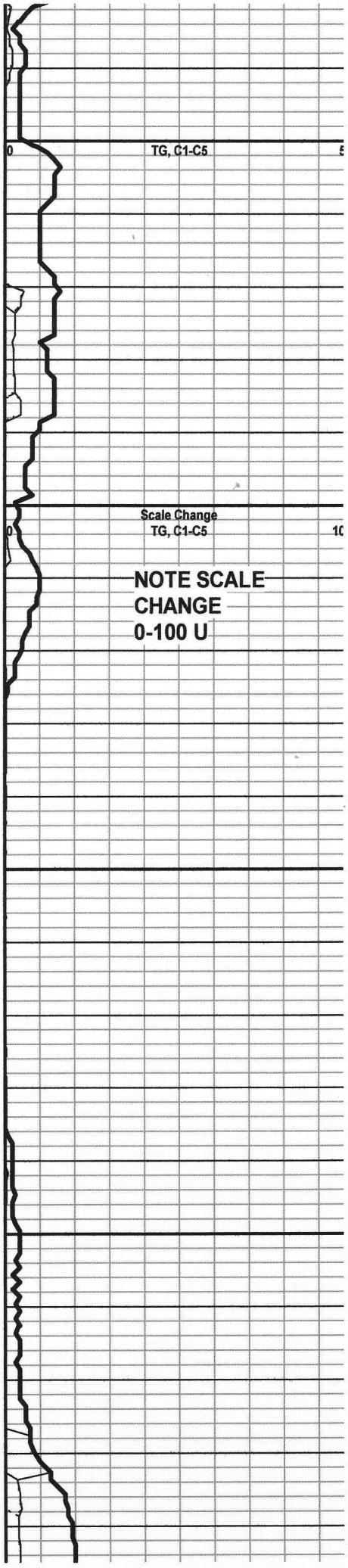
SH-DK GY, TR DK RD, FN TXT, BLKY

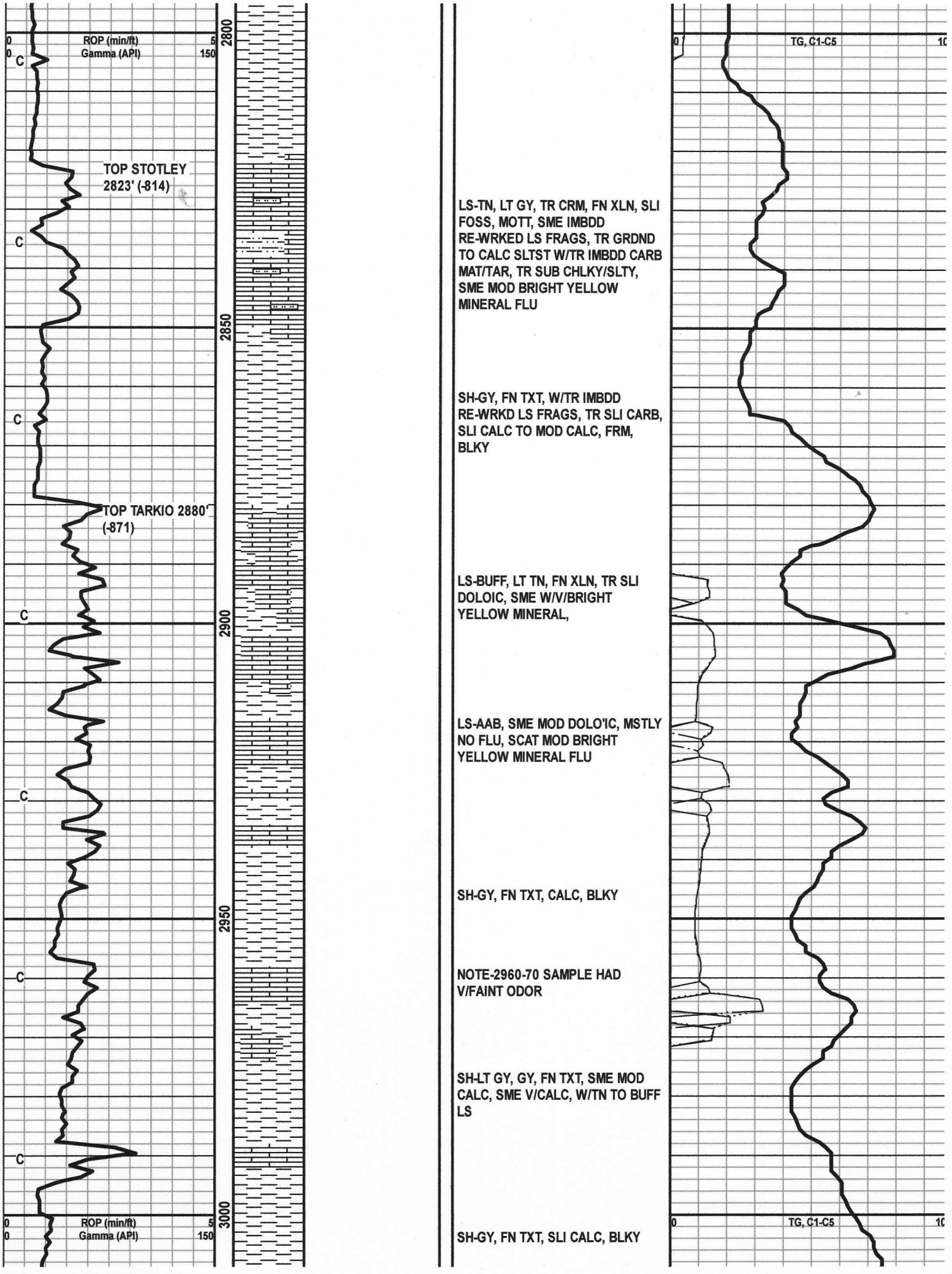
LS-LT TN, FN XLN, MSTLY NO FLU

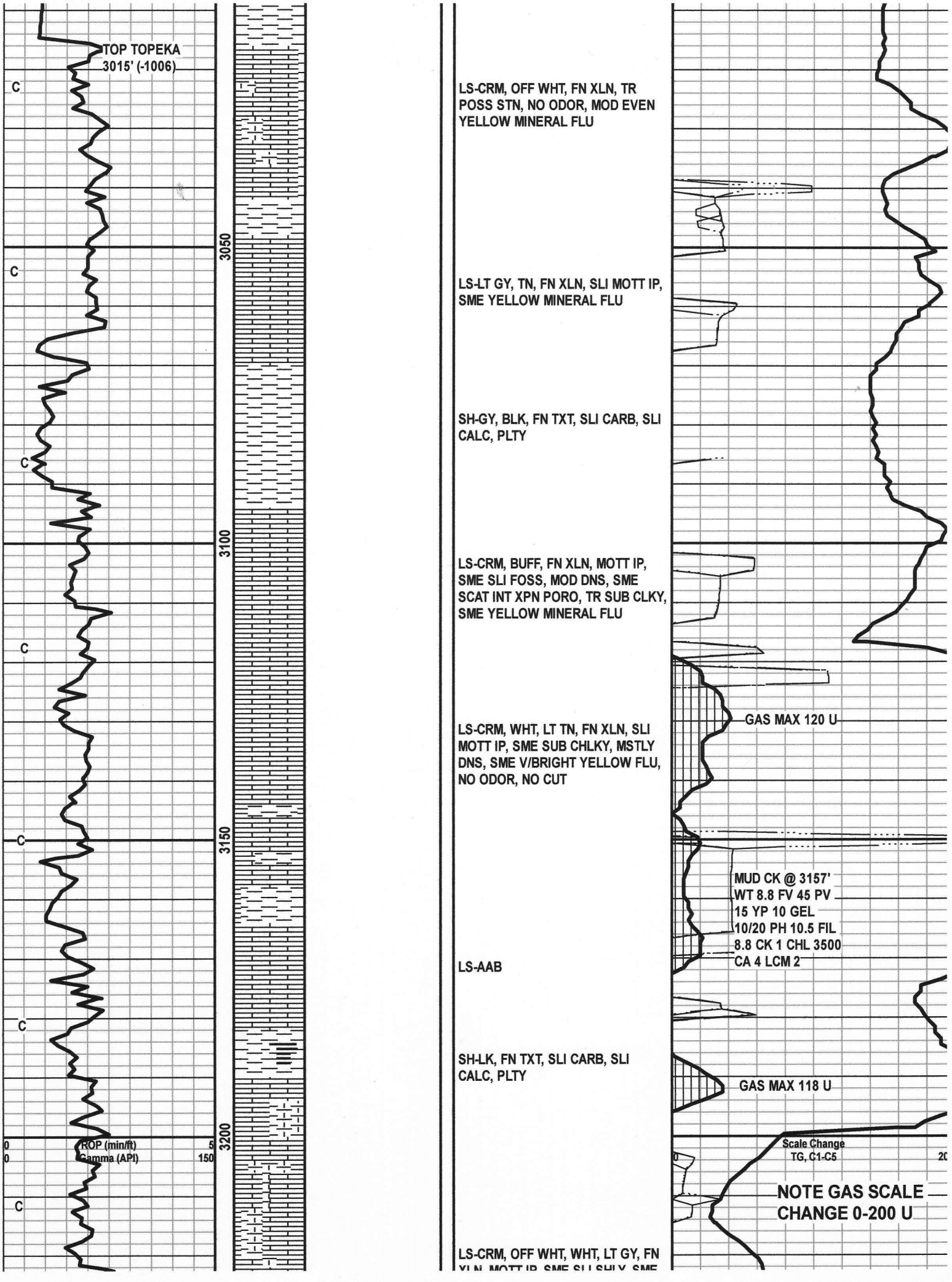
SH-LT GY, DK RD, TR DULL LT GREEN, FN TXT, SME MED TXT, SME SLI CALC, BLKY

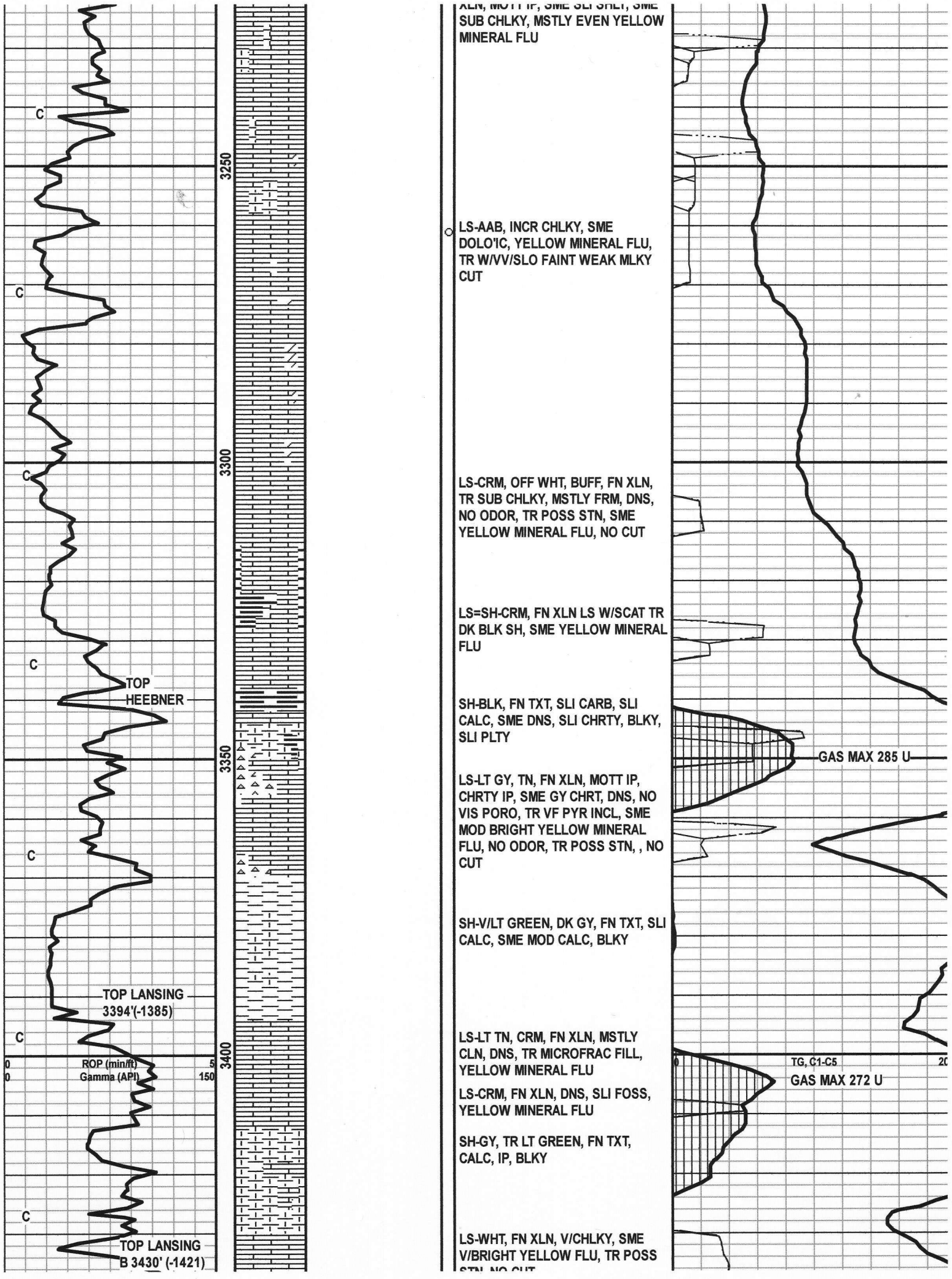
LS-CRM, LT GY, FN XLN, TR SLI SLTY, SLI MOTT IP, SME SCAT DULL YELLOW MINERAL FLU

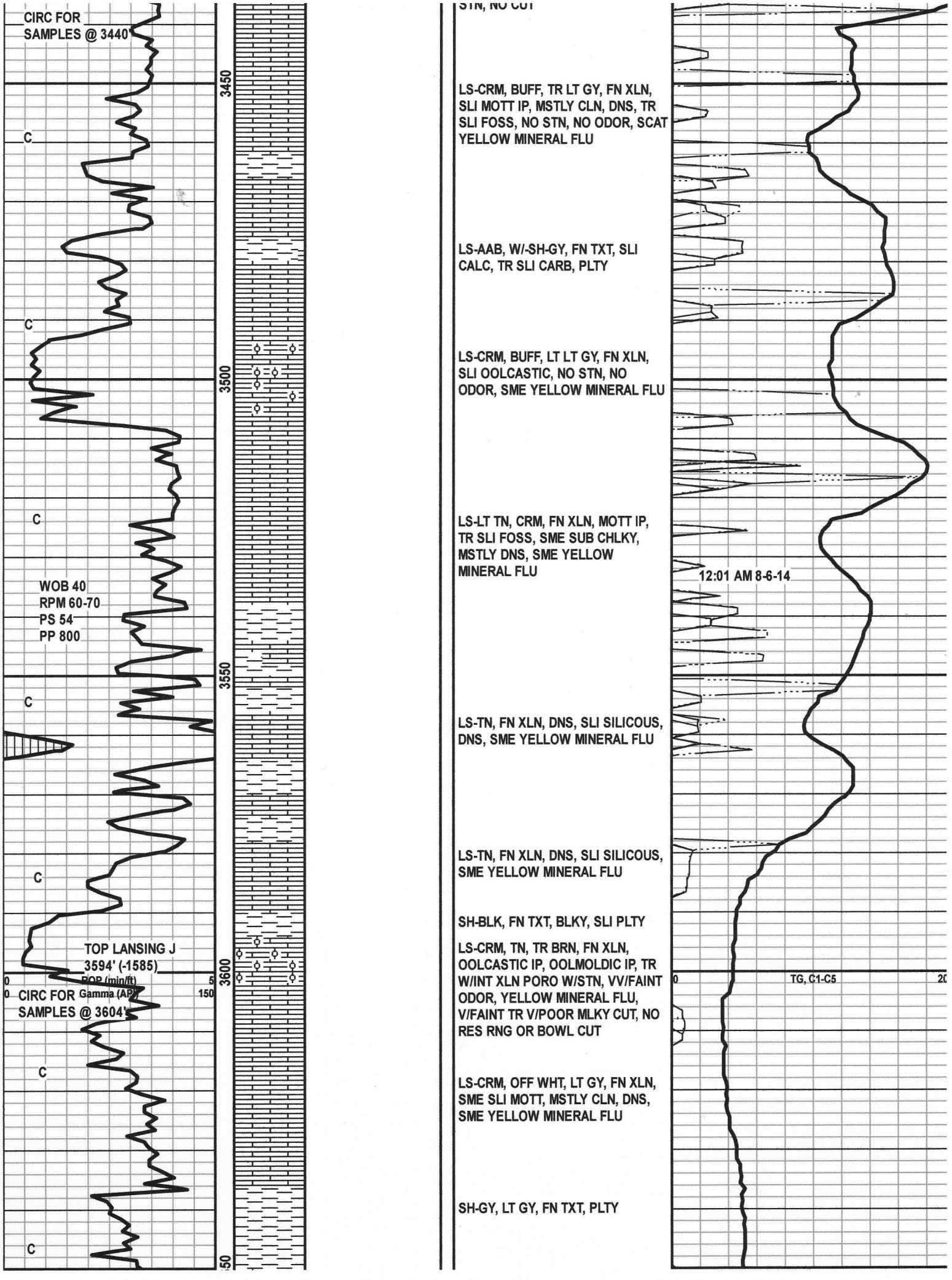
SH-LT GY, GY, FN TO MED TXT, CALC, SME CRM TO LT GY MOTT LS, BLKY

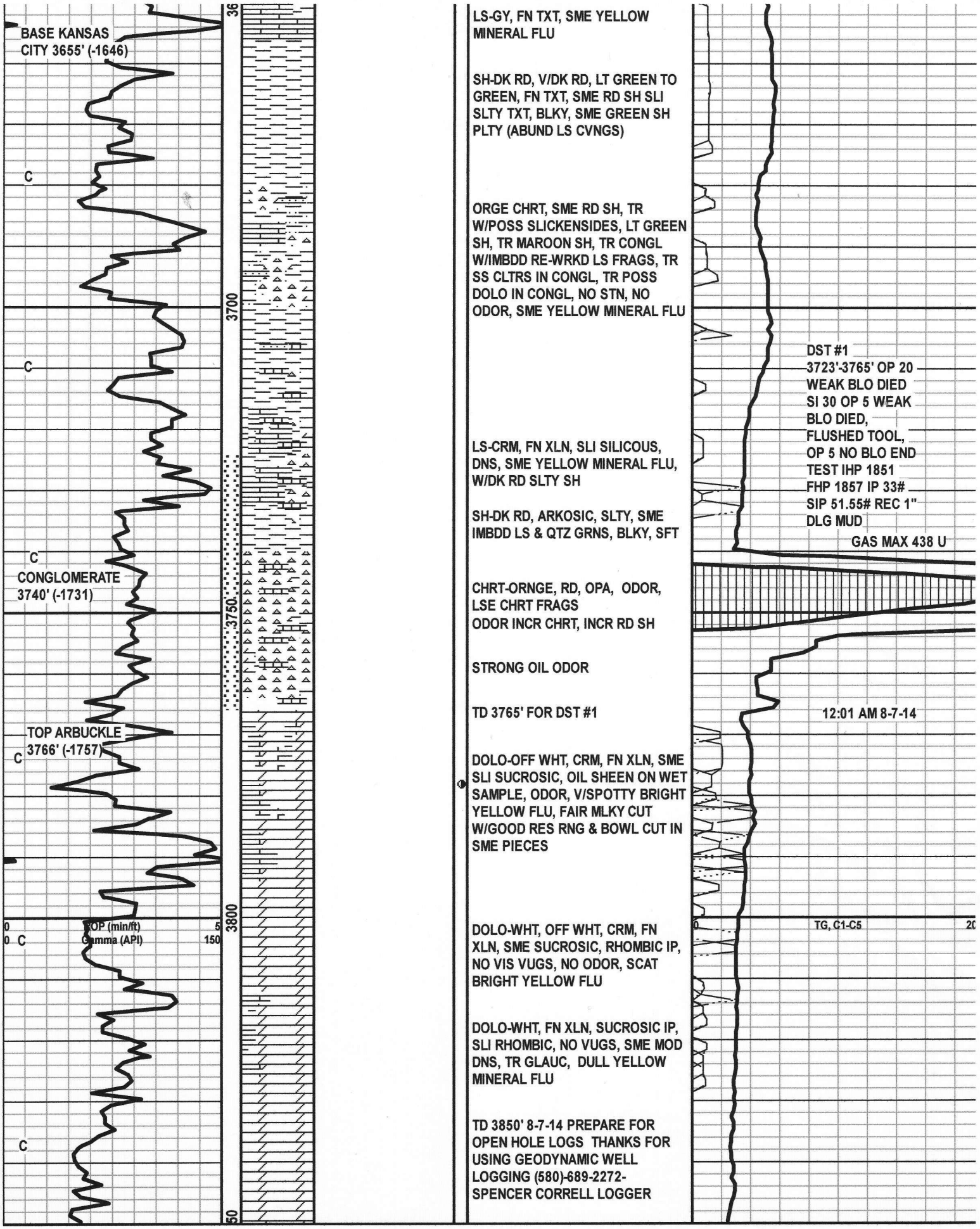



ROP (min/ft)
Gamma (API)
0
0
5
150
C
TOP STOTLEY
2823' (-814)
TOP TARKIO 2880'
(-871)
2800
2850
2900
2950
3000
LS-TN, LT GY, TR CRM, FN XLN, SLI FOSS, MOTT, SME IMBDD RE-WRKED LS FRAGS, TR GRDND TO CALC SLTST W/TR IMBDD CARB MAT/TAR, TR SUB CHLKY/SLTY, SME MOD BRIGHT YELLOW MINERAL FLU
SH-GY, FN TXT, W/TR IMBDD RE-WRKD LS FRAGS, TR SLI CARB, SLI CALC TO MOD CALC, FRM, BLKY
LS-BUFF, LT TN, FN XLN, TR SLI DOLOIC, SME W/V/BRIGHT YELLOW MINERAL,
LS-AAB, SME MOD DOLO'IC, MSTLY NO FLU, SCAT MOD BRIGHT YELLOW MINERAL FLU
SH-GY, FN TXT, CALC, BLKY
NOTE-2960-70 SAMPLE HAD V/FAINT ODOR
SH-LT GY, GY, FN TXT, SME MOD CALC, SME V/CALC, W/TN TO BUFF LS
SH-GY, FN TXT, SLI CALC, BLKY
TG, C1-C5
0
10


TOP TOPEKA
3015' (-1006)
C
C
C
C
C
C
3050
3100
3150
3200
0
ROP (min/ft)
5
0
Gamma (API)
150
LS-CRM, OFF WHT, FN XLN, TR POSS STN, NO ODOR, MOD EVEN YELLOW MINERAL FLU
LS-LT GY, TN, FN XLN, SLI MOTT IP, SME YELLOW MINERAL FLU
SH-GY, BLK, FN TXT, SLI CARB, SLI CALC, PLTY
LS-CRM, BUFF, FN XLN, MOTT IP, SME SLI FOSS, MOD DNS, SME SCAT INT XPN PORO, TR SUB CLKY, SME YELLOW MINERAL FLU
LS-CRM, WHT, LT TN, FN XLN, SLI MOTT IP, SME SUB CHLKY, MSTLY DNS, SME V/BRIGHT YELLOW FLU, NO ODOR, NO CUT
LS-AAB
SH-LK, FN TXT, SLI CARB, SLI CALC, PLTY
LS-CRM, OFF WHT, WHT, LT GY, FN
GAS MAX 120 U
MUD CK @ 3157'
WT 8.8 FV 45 PV
15 YP 10 GEL
10/20 PH 10.5 FIL
8.8 CK 1 CHL 3500
CA 4 LCM 2
GAS MAX 118 U
Scale Change
TG, C1-C5
0
20
NOTE GAS SCALE CHANGE 0-200 U


XLN, MOTT IP, SME SLI SHLY, SME
SUB CHLKY, MSTLY EVEN YELLOW
MINERAL FLU
LS-AAB, INCR CHLKY, SME
DOLO'IC, YELLOW MINERAL FLU,
TR W/VV/SLO FAINT WEAK MLKY
CUT
LS-CRM, OFF WHT, BUFF, FN XLN,
TR SUB CHLKY, MSTLY FRM, DNS,
NO ODOR, TR POSS STN, SME
YELLOW MINERAL FLU, NO CUT
LS=SH-CRM, FN XLN LS W/SCAT TR
DK BLK SH, SME YELLOW MINERAL
FLU
SH-BLK, FN TXT, SLI CARB, SLI
CALC, SME DNS, SLI CHRTY, BLKY,
SLI PLTY
GAS MAX 285 U
LS-LT GY, TN, FN XLN, MOTT IP,
CHRTY IP, SME GY CHRT, DNS, NO
VIS PORO, TR VF PYR INCL, SME
MOD BRIGHT YELLOW MINERAL
FLU, NO ODOR, TR POSS STN, , NO
CUT
SH-V/LT GREEN, DK GY, FN TXT, SLI
CALC, SME MOD CALC, BLKY
LS-LT TN, CRM, FN XLN, MSTLY
CLN, DNS, TR MICROFRAC FILL,
YELLOW MINERAL FLU
LS-CRM, FN XLN, DNS, SLI FOSS,
YELLOW MINERAL FLU
SH-GY, TR LT GREEN, FN TXT,
CALC, IP, BLKY
LS-WHT, FN XLN, V/CHLKY, SME
V/BRIGHT YELLOW FLU, TR POSS
C
C
C
C
C
C
C
C
TOP
HEEBNER
TOP LANSING
3394'(-1385)
TOP LANSING
B 3430' (-1421)
3250
3300
3350
3400
0
0
ROP (min/ft)
Gamma (API)
5
150
TG, C1-C5
GAS MAX 272 U


CIRC FOR SAMPLES @ 3440'
3450
C
C
3500
C
WOB 40
RPM 60-70
PS 54
PP 800
C
3550
C
TOP LANSING J
3594' (-1585)
0
ROP (min/ft)
5
0
CIRC FOR
Gamma (API)
150
SAMPLES @ 3604'
3600
C
C
50
STN, NO CUT
LS-CRM, BUFF, TR LT GY, FN XLN, SLI MOTT IP, MSTLY CLN, DNS, TR SLI FOSS, NO STN, NO ODOR, SCAT YELLOW MINERAL FLU
LS-AAB, W/-SH-GY, FN TXT, SLI CALC, TR SLI CARB, PLTY
LS-CRM, BUFF, LT LT GY, FN XLN, SLI OOLCASTIC, NO STN, NO ODOR, SME YELLOW MINERAL FLU
LS-LT TN, CRM, FN XLN, MOTT IP, TR SLI FOSS, SME SUB CHLKY, MSTLY DNS, SME YELLOW MINERAL FLU
12:01 AM 8-6-14
LS-TN, FN XLN, DNS, SLI SILICOUS, DNS, SME YELLOW MINERAL FLU
LS-TN, FN XLN, DNS, SLI SILICOUS, SME YELLOW MINERAL FLU
SH-BLK, FN TXT, BLKY, SLI PLTY
LS-CRM, TN, TR BRN, FN XLN, OOLCASTIC IP, OOLMOLDIC IP, TR W/INT XLN PORO W/STN, VV/FAINT ODOR, YELLOW MINERAL FLU, V/FAINT TR V/POOR MLKY CUT, NO RES RNG OR BOWL CUT
0
TG, C1-C5
20
LS-CRM, OFF WHT, LT GY, FN XLN, SME SLI MOTT, MSTLY CLN, DNS, SME YELLOW MINERAL FLU
SH-GY, LT GY, FN TXT, PLTY


BASE KANSAS CITY 3655' (-1646)
C
C
C
CONGLOMERATE 3740' (-1731)
TOP ARBUCKLE 3766' (-1757)
C
C
0
0 C
ROP (min/ft)
Gamma (API)
5
150
3600
3700
3750
3800
LS-GY, FN TXT, SME YELLOW MINERAL FLU
SH-DK RD, V/DK RD, LT GREEN TO GREEN, FN TXT, SME RD SH SLI SLTY TXT, BLKY, SME GREEN SH PLTY (ABUND LS CVNGS)
ORGE CHRT, SME RD SH, TR W/POSS SLICKENSIDES, LT GREEN SH, TR MAROON SH, TR CONGL W/IMBDD RE-WRKD LS FRAGS, TR SS CLTRS IN CONGL, TR POSS DOLO IN CONGL, NO STN, NO ODOR, SME YELLOW MINERAL FLU
LS-CRM, FN XLN, SLI SILICOUS, DNS, SME YELLOW MINERAL FLU, W/DK RD SLTY SH
SH-DK RD, ARKOSIC, SLTY, SME IMBDD LS & QTZ GRNS, BLKY, SFT
CHRT-ORNGE, RD, OPA, ODOR, LSE CHRT FRAGS
ODOR INCR CHRT, INCR RD SH
STRONG OIL ODOR
TD 3765' FOR DST #1
DOLO-OFF WHT, CRM, FN XLN, SME SLI SUCROSIC, OIL SHEEN ON WET SAMPLE, ODOR, V/SPOTTY BRIGHT YELLOW FLU, FAIR MLKY CUT W/GOOD RES RNG & BOWL CUT IN SME PIECES
DOLO-WHT, OFF WHT, CRM, FN XLN, SME SUCROSIC, RHOMBIC IP, NO VIS VUGS, NO ODOR, SCAT BRIGHT YELLOW FLU
DOLO-WHT, FN XLN, SUCROSIC IP, SLI RHOMBIC, NO VUGS, SME MOD DNS, TR GLAUC, DULL YELLOW MINERAL FLU
TD 3850' 8-7-14 PREPARE FOR OPEN HOLE LOGS THANKS FOR USING GEODYNAMIC WELL LOGGING (580)-689-2272- SPENCER CORRELL LOGGER
DST #1
3723'-3765' OP 20 WEAK BLO DIED SI 30 OP 5 WEAK BLO DIED, FLUSHED TOOL, OP 5 NO BLO END
TEST IHP 1851 FHP 1857 IP 33# SIP 51.55# REC 1" DLG MUD
GAS MAX 438 U
12:01 AM 8-7-14
0
TG, C1-C5
20

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

Well Name:	**Red Mountain Resources**	**Besperat**	
Well Id:			
Location:	**Section 18-T18S-R17W**	**Rush County, Kansas**	
License Number:	**15-165-22085-00-00**	**Region:**	
Spud Date:	**8/1/2014**	**Drilling Completed:**	**8-7-14**
Surface Coordinates:	**750' FSL &930' FEL**		
Bottom Hole Coordinates:	**As above**		
Ground Elevation (ft):	**1,999'**	**K.B. Elevation (ft):**	**2009'**
Logged Interval (ft):	**200 To: 3850**	**Total Depth (ft):**	**3850**
Formation:	**ALLUVIUM /ARBUCKLE**		
Type of Drilling Fluid:	**NATIVE/CHEM FRESH**		

OPERATOR

Company: Red Mountain Resources
Address: 2515 McKinney Avenue, Suite 900
Dallas, Texas 75201

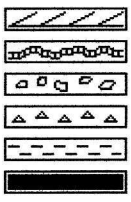
GEOLOGIST

Name: Dick Jackson
Company: Red Mountain Resources
Address: 2515 McKinney Avenue, Suite 900
Dallas, Texas 75201

Comments

VAL ENERGY RIG 6 SAMPLES
GEODYNAMIC LOGGING UNIT 16
LOGGER SPENCER CORRELL

ROCK TYPES



Anhy
Bent
Brec
Cht
Clyst
Coal
Congl
Dol
Gyp
Igne
Lmst
Meta
Mrlst
Salt
Shale
Shcol
Shgy
Sltst
Ss
Till
sdy sh
calc sh
shale
carb sh

ACCESSORIES

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

FOSSIL

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

STRINGER

Anhy
Arg
Bent
Coal
Dol
Gyp
Ls
Mrst
Sltstrg
Ssstrg

TEXTURE

BS Boundst
C Chalky
CX CryxIn
E Earthy
FX FinexIn
GS Grainst
L Lithogr
MX MicroxIn
MS Mudst
PS Packst
WS Wackest

OTHER SYMBOLS

POROSITY TYPE

E Earthy
F Fenest
F Fracture
I Inter
M Moldic
O Organic
P Pinpoint
V Vuggy

SORTING

W Well
M Moderate
P Poor

ROUNDING

R Rounded
r Subrnd
a Subang
A Angular

OIL SHOWS

Even
Spotted
Ques
Dead

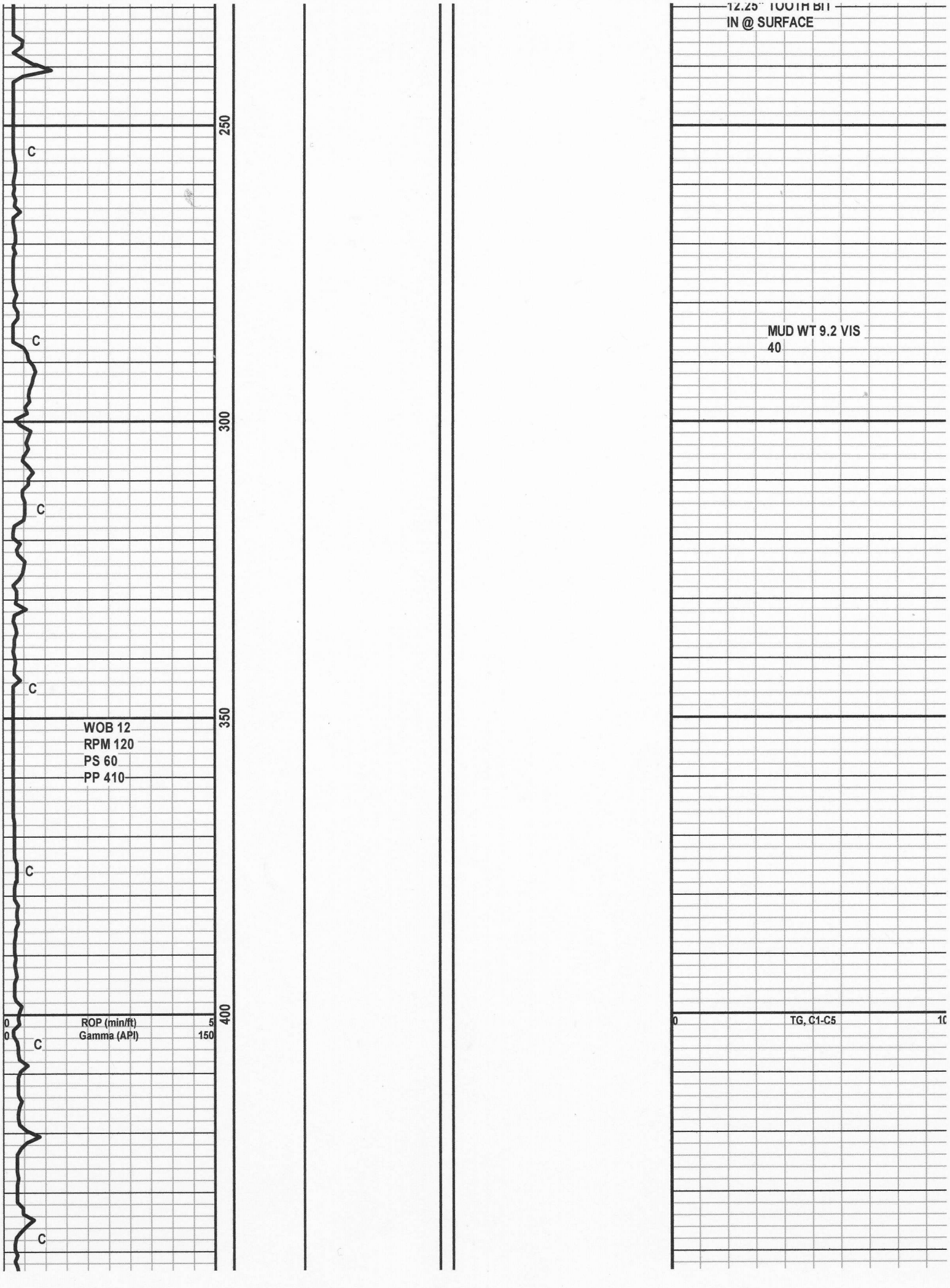
INTERVALS

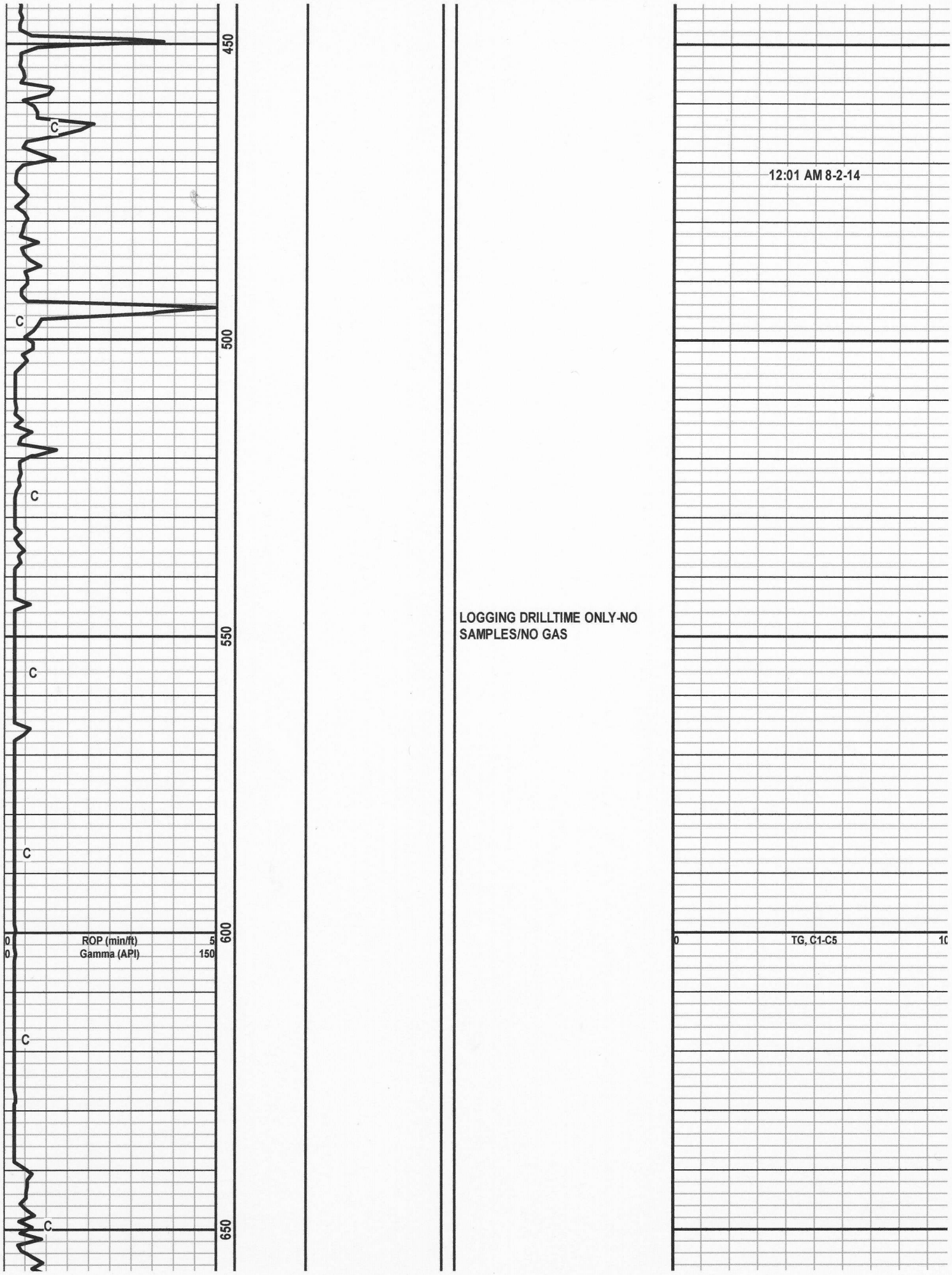
Core
Dst

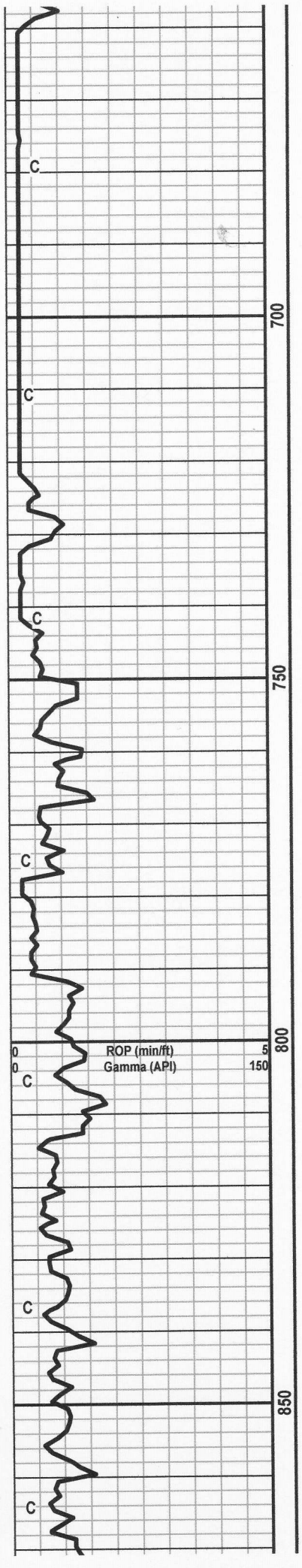
EVENTS

Rft
Sidewall

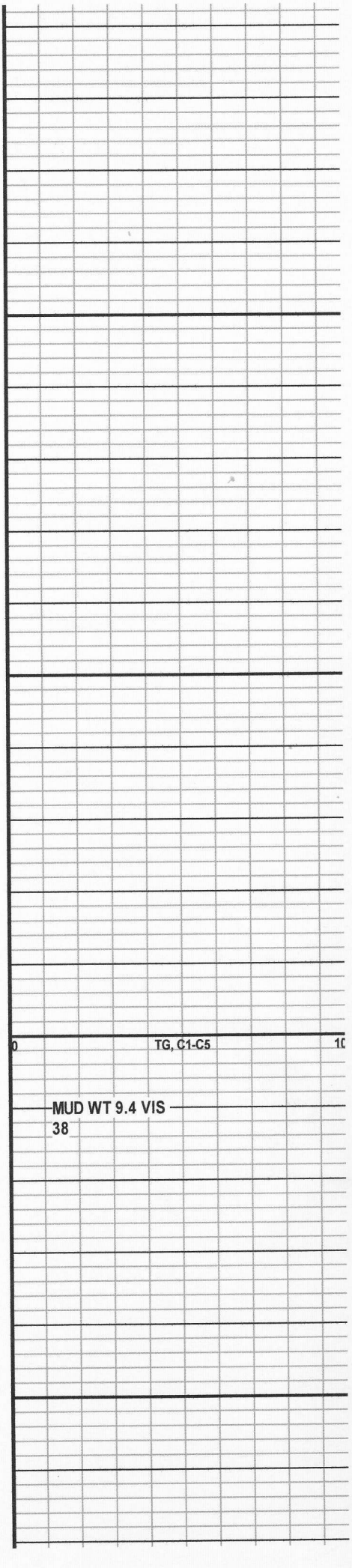
Curve Track 1 ROP (min/ft) Gamma (API)	Depth	% Lithology	Sample Photos	Oil Shows	Geological Descriptions	TG, C1-C5 TG (units) C1 (units) C2 (units) C3 (units) C4 (units) C5 (units)
0 ROP (min/ft) 5 0 Gamma (API) 150	2				SPUD 8-1-14 BEGIN ONE MAN LOGGING OPERATIONS @ 200' 8-1-14 LOGGING DRILLTIME ONLY-NO SAMPLES/NO GAS	0 TG, C1-C5 10 BIT # 1 REED

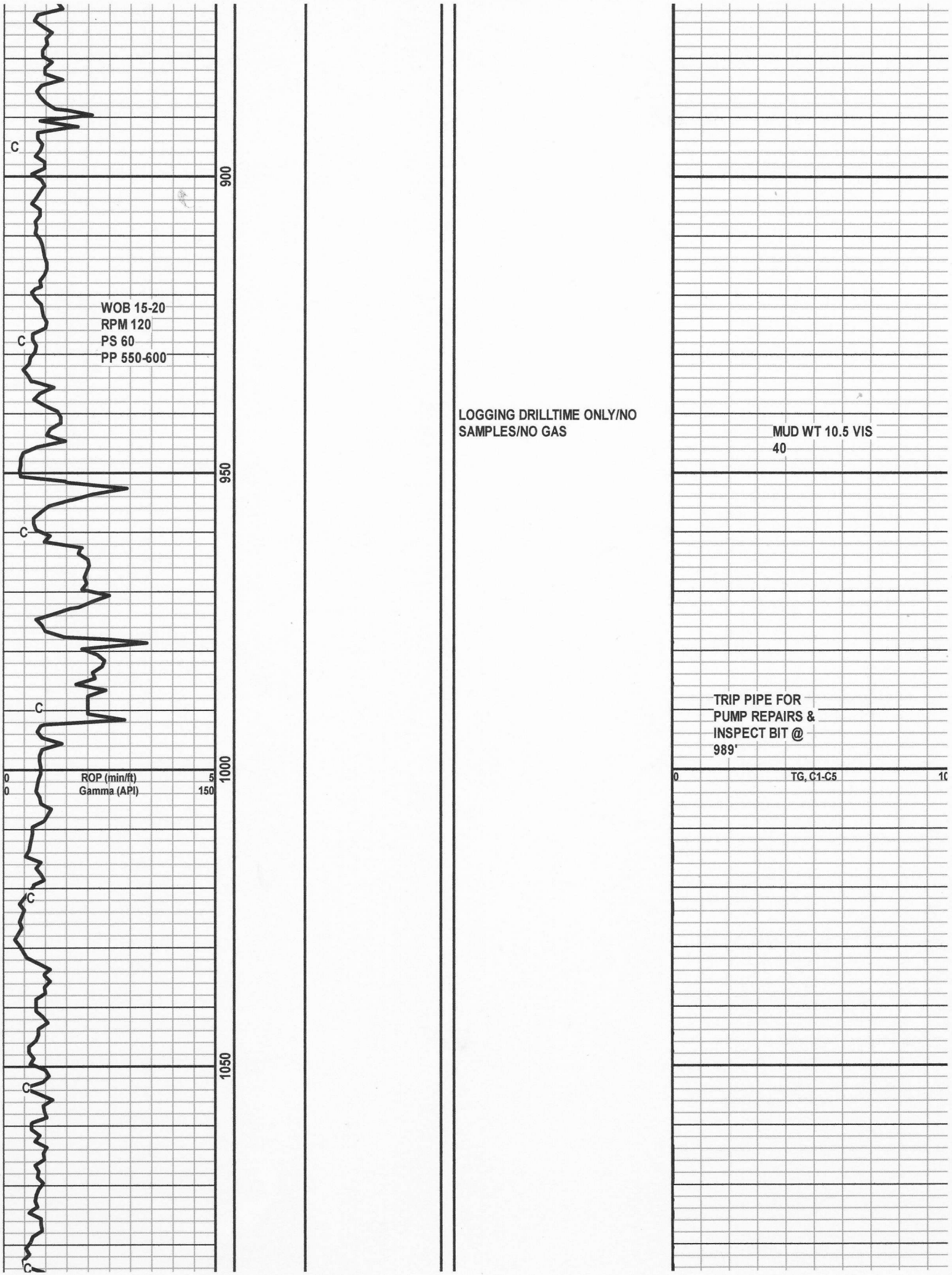

12.25" TOOTH BIT
IN @ SURFACE
MUD WT 9.2 VIS
40
250
300
350
400
C
WOB 12
RPM 120
PS 60
PP 410
0
0
ROP (min/ft)
Gamma (API)
5
150
0
TG, C1-C5
10

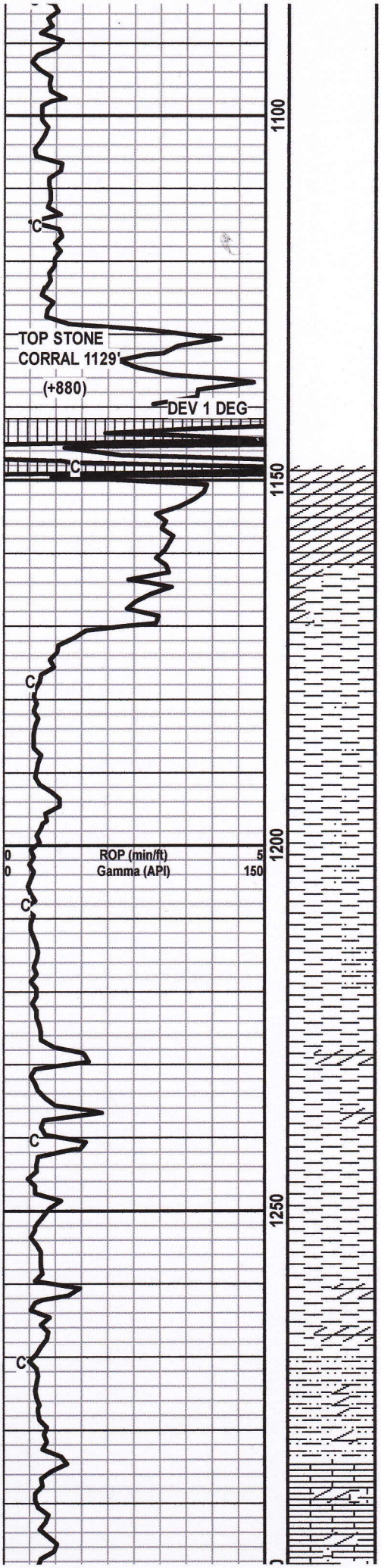

450
500
550
600
650
C
C
C
C
C
C
0
0
ROP (min/ft)
Gamma (API)
5
150
LOGGING DRILLTIME ONLY-NO
SAMPLES/NO GAS
12:01 AM 8-2-14
0
TG, C1-C5
10



LOGGING DRILLTIME ONLY- NO SAMPLES /NO GAS




C
C
C
C
C
C
900
950
1000
1050
WOB 15-20
RPM 120
PS 60
PP 550-600
0
0
ROP (min/ft)
Gamma (API)
5
150
LOGGING DRILLTIME ONLY/NO SAMPLES/NO GAS
MUD WT 10.5 VIS 40
TRIP PIPE FOR PUMP REPAIRS & INSPECT BIT @ 989'
0
TG, C1-C5
10



LOGGING DRILLTIME ONLY NO SAMPLES/NO GAS

SET 8 5/8" CASING @ 1140' 8-2-14

DRLD APPOX 50' CEMENT IN CASING GOOD FIRM CEMENT..

BEGIN CATCHING SAMPLES, MUD FLOW TO AGITATOR/GAS TRAP

ANHY-OFF WHT, CRM, FN TO CRYPTOXLN, DNS, V/FAINT LT YELLOW MINERAL FLU

SH-RD, GY, FN TXT, SLTY IP, SFT, GUMMY IP, CLYEY IP

ANHY-CRM, LT GY, FN TO CRYPTOXLN, SLI CALC, DNS, NO FLU, W/SH AAB

SLTST-GY, SHLY, SLI ANHYDRITIC

LS-CRM, V/LT GY, FN TO CRYPTOXLN, ANHYDRITIC, SME GRDNG TO CALC ANHY, DNS, NO VIS PORO, SME VVF IMBDD CLR

MUD WT 10.7 VIS 37

DRLG TO 1:30PM 8-2-14, CIRC, TOH FOR CASING RAN 28 JNTS 8 5/8" 23# CASING TO 1140, CEMENT, NIPPLE UP 7AM 8-3-14

12:01AM 8-3-14

Scale Change

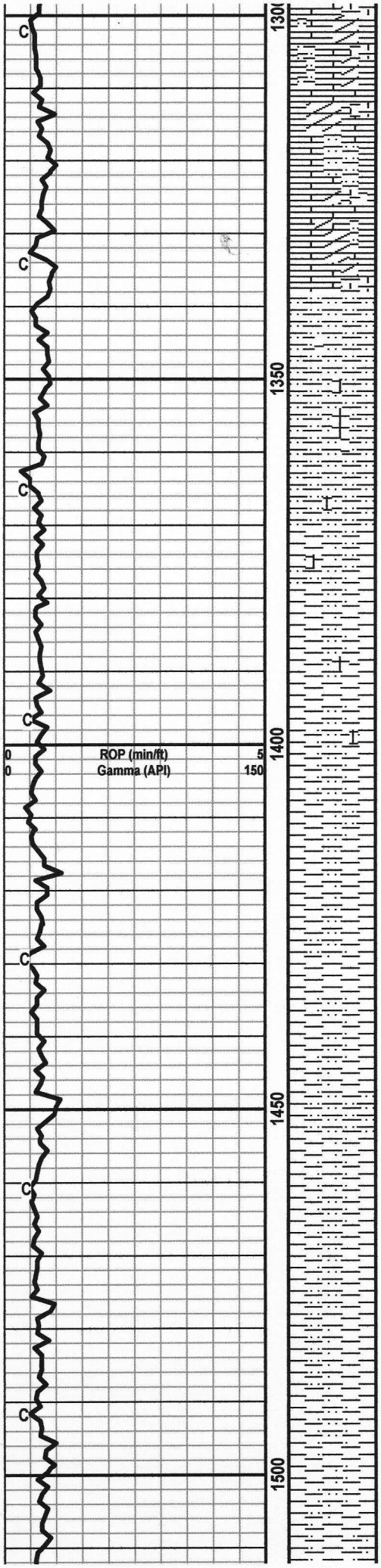
0 TG, C1-C5

NOTE GAS SCALE CHANGE 0-50 U

NEW BIT #2 7 7/8" REED TYPE 20 TRI CONE IN @ 1140'

MUD CK @ 1164' WT 8.6 FV 27 CK 1/32, FIL N/C

0 TG, C1-C5



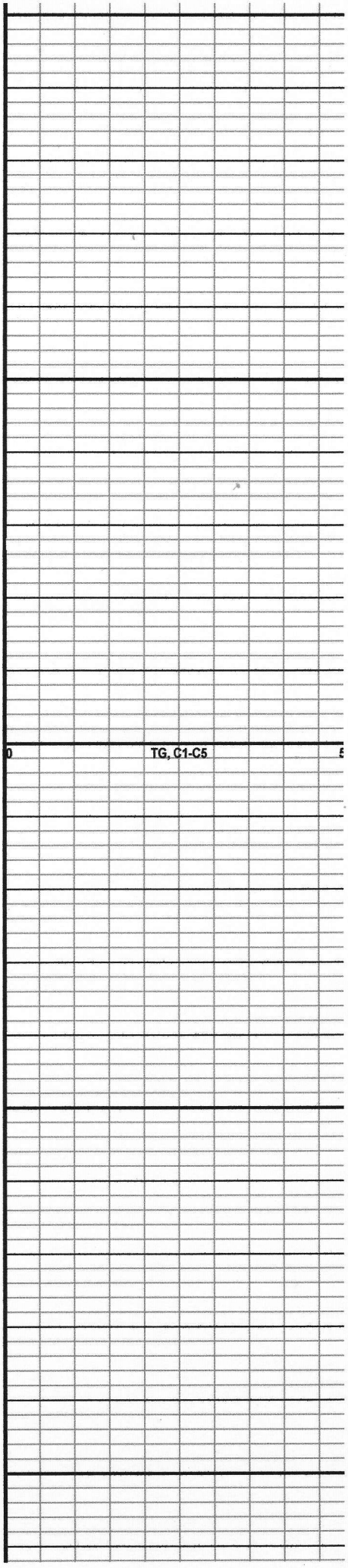
QTZ GRNS, SLI SNDY IP, V/SCAT TR MOD BRIGHT YELLOW MINERAL FLU

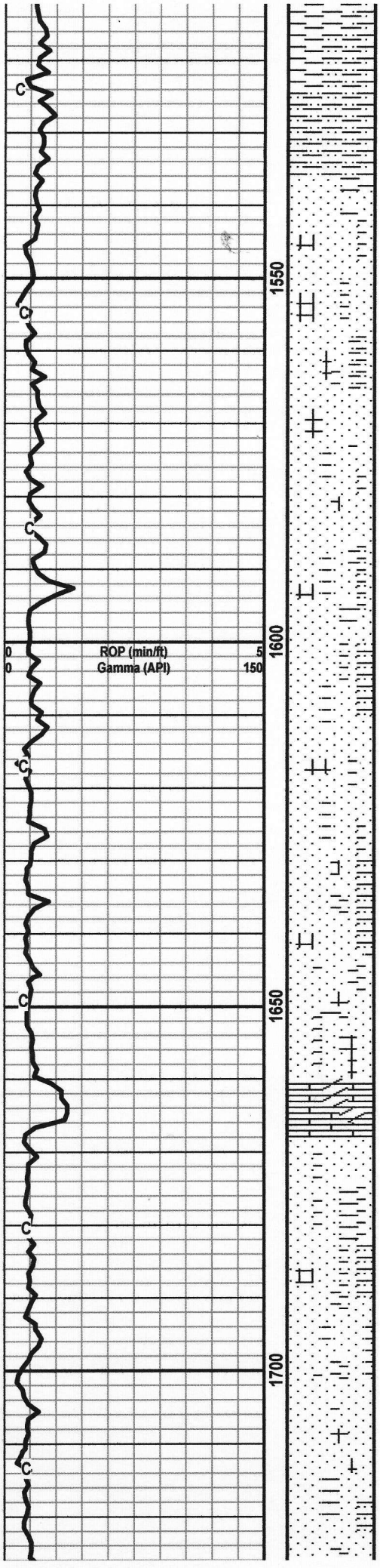
SH-RD, MED TO RUFF TXT, SLTY, SME VVF IMBDD HALITE X-TALS, SME GRDNG TO SHLY SLTST, SFT

SH-LT RD, RD, FN TO RUFF SLTY TXT, GRDNG TO SLTST, ABUND VVF LSE OPA TO MLKY QTZ GRNS, TR VVF K-FLDSPRS, TR VVF RE-WRKD LS FRAGS, TR VVF IMBDD HALITE X-TALS, NO FLU IN SAMPLES

SH/SLTST AAB

SH-GY, LT GY, SME RDDISH, MED TO RUFF SLTY TXT, TR FN TXT, ABUND LSE VVF QTZ GRNS, GRDNG TO SHLY SLTST IP, SFT





SLTST-V/LT GY, PRED LSE VVF QTZ GRNS, TR VVF K-FLDSPRS & POSS TR ALBITE, NO FLU

NOTE SLIGHT GAS INCREASE

SS-LT GY, OFF WHT, REDDISH, VVF TO FN GR, MOD W/SRTD, SUB RNDD, V/SCAT TR FN CLSTRS, SME VF HALITE X-TALS, MSTLY LSE QTZ GRNS W/TR FN K-FLDSPR FRAGS, SME GY SH, SME FN PYR, NO STN, NO ODOR, NO FLU

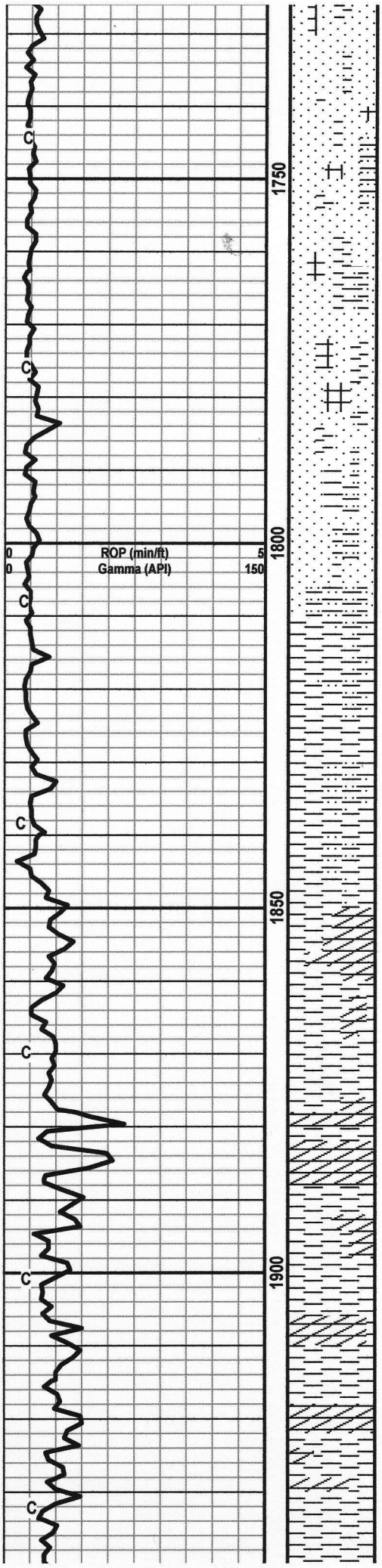
SS-AAB

0 TG, C1-C5 5

SS-V/LT GY, OFF WHT, VFG, FN GR, MOD W/SRTD, SUB RNDD, PRED LSE VVF TO VF QTZ GRNS, SME SMALL FRI CLSTRS, NO FLU

ANHY-TN, FN XLN, CALC, SNDY, NO FLU

SS-OFF WHT, V/LT GY, SME RDDISH, FN TO VF GR, MOD W/SRTD, SUB RNDD TO SUB ANG, PRED LSE OPA QTZ GRNS, SME VVF HALITE X-TALS, SME SMALL FRI CLSTRS, SHLY IP, NO FLU



SS-OPA, OFF WHT, LT GY, SME RDDISH, FN GR, MOD W/SRTD, SUB ANG, PRED LSE QTZ GRNS , SME VF HALITE X-TALS, NO STN, NO ODOR, NO FLU

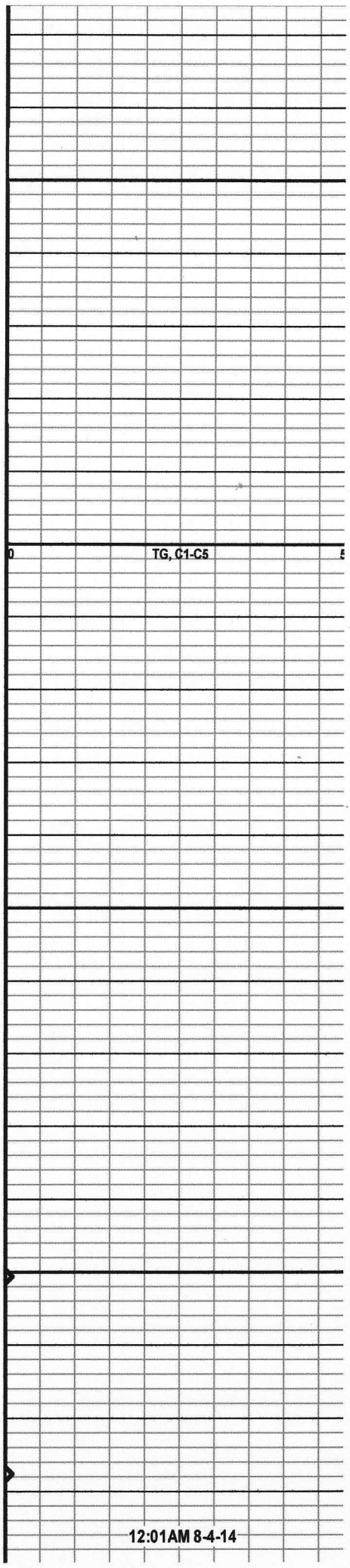
SS/SLTST

SH-RD, GY, FN TXT, SME ANHY, ABUND SS/SLTST CVNGS, BLKY

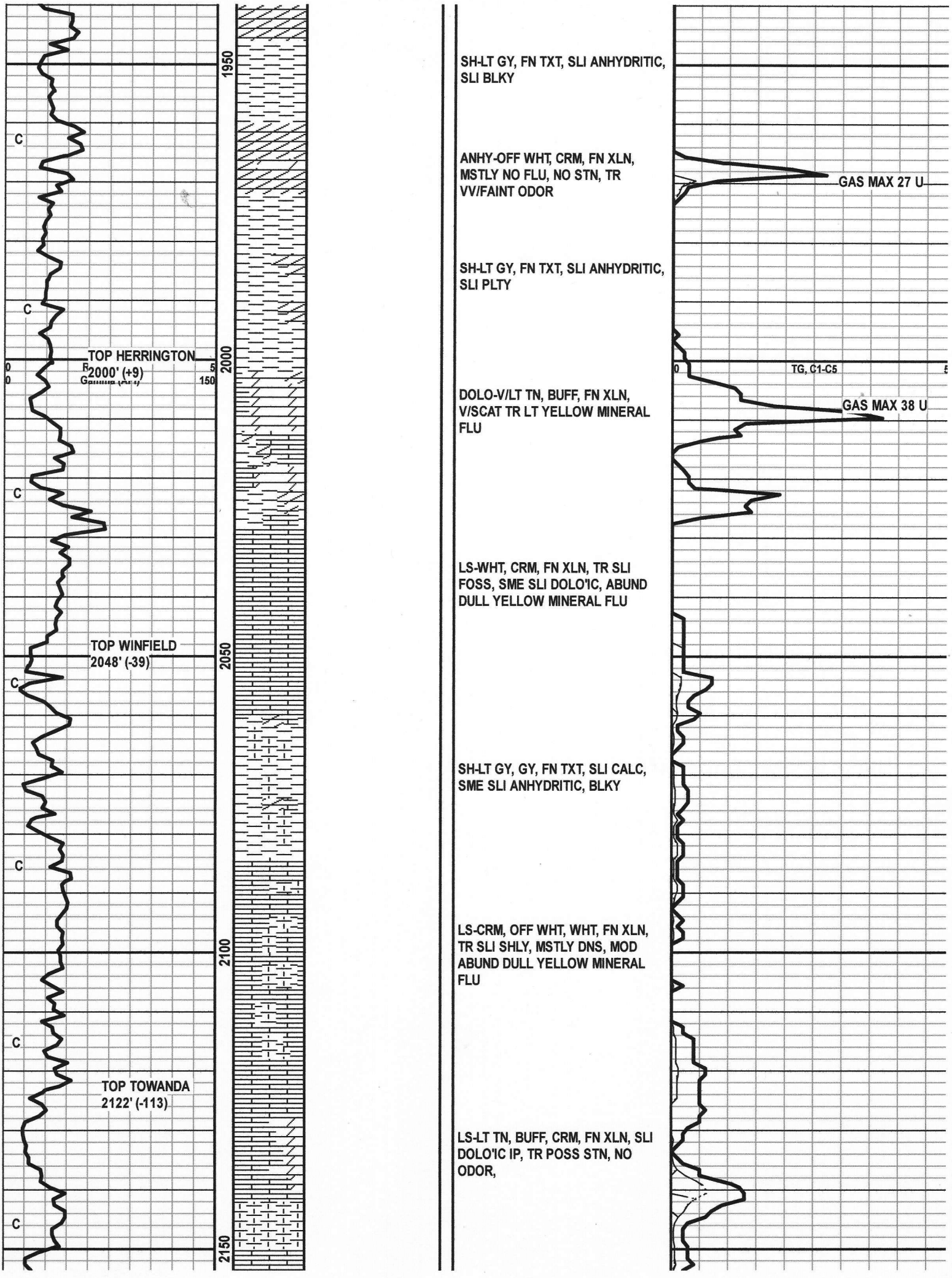
ANHY-OPA, MLKY, FN XLN, NO FLU

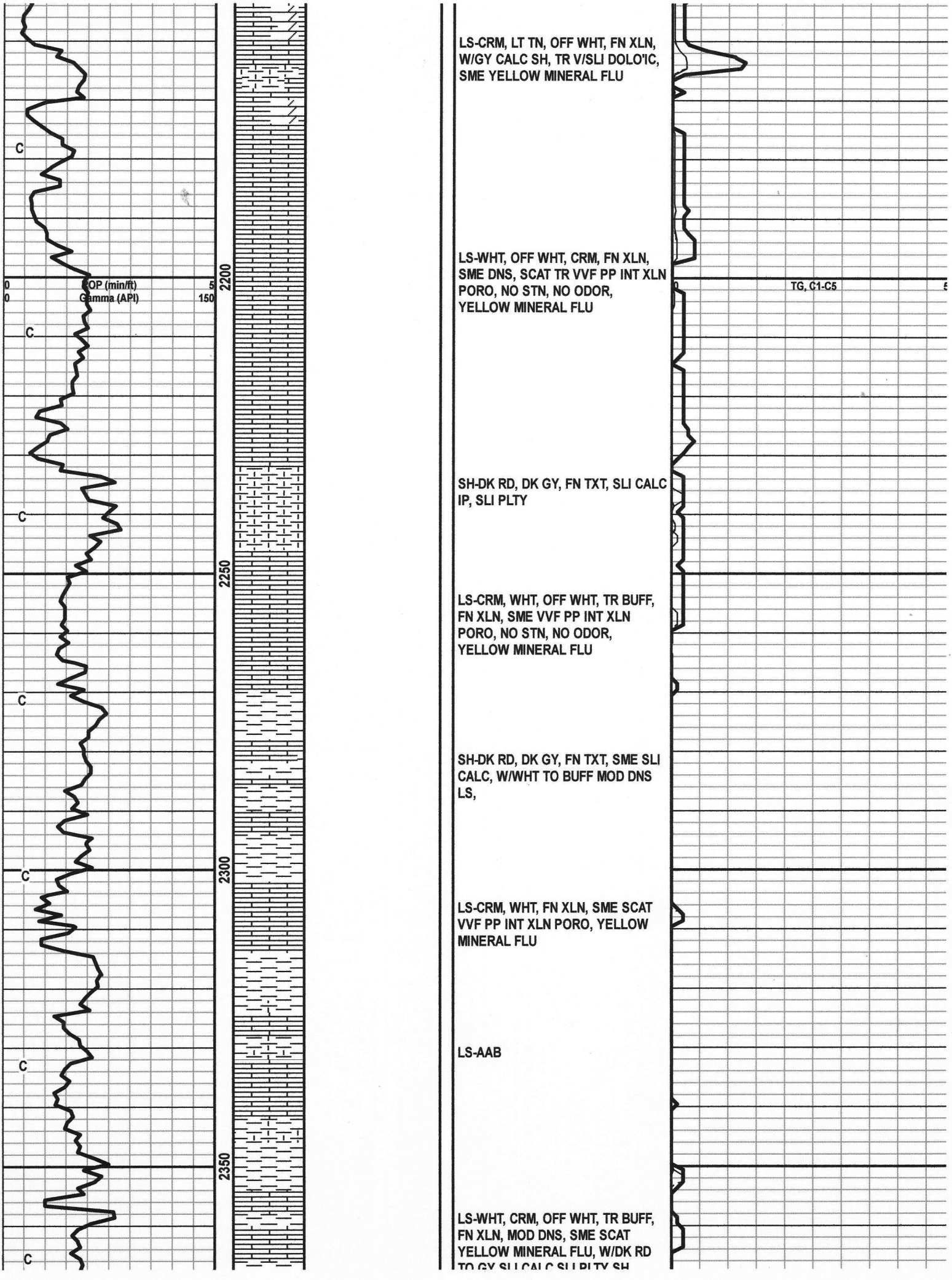
ANHY-OPA, CRM. MLKY, FN XLN, MSTLY DNS, NO STN, NO ODOR, NO FLU

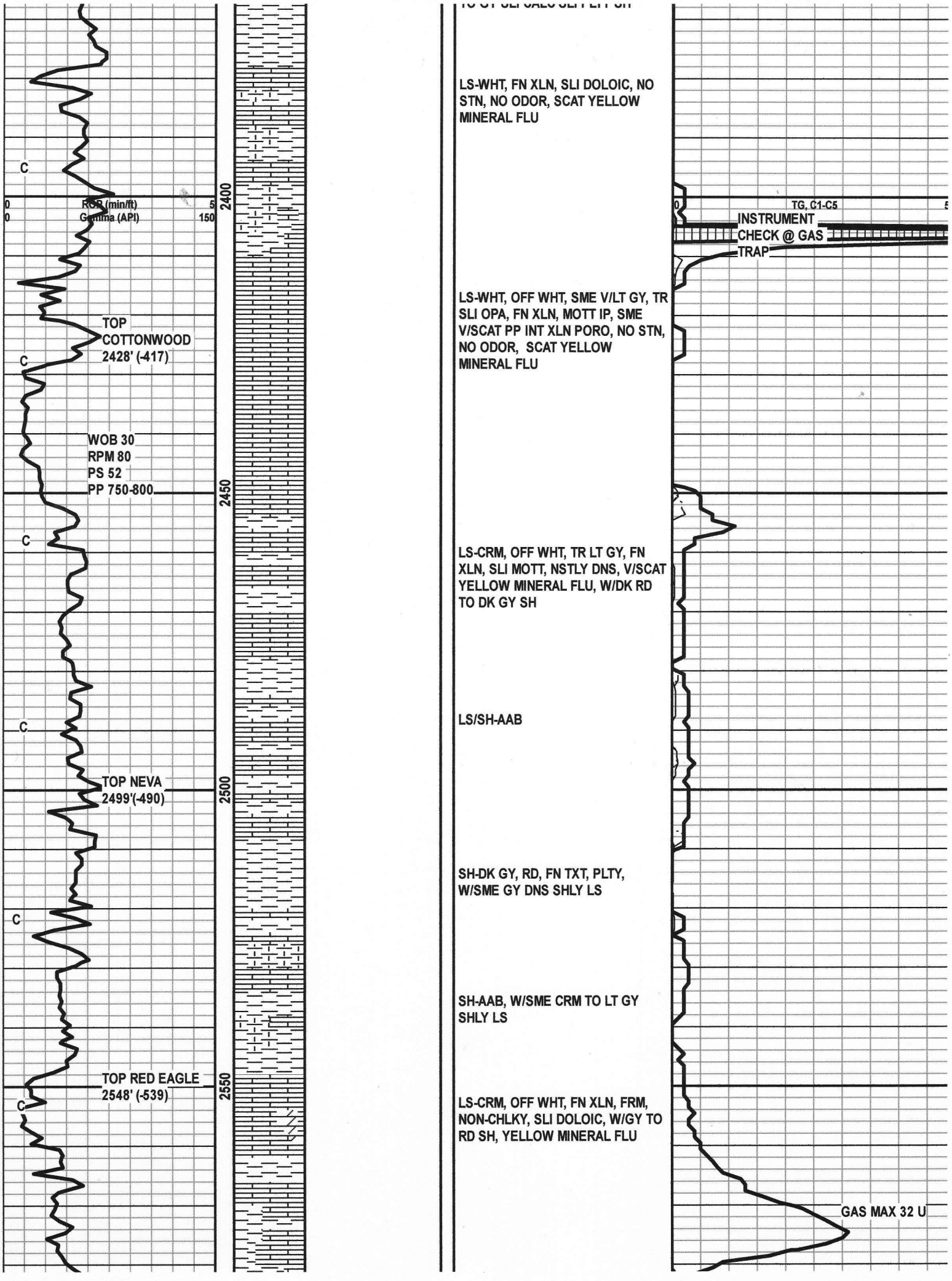
ANHY-WHT, CRM, OFF WHT, TR OPA, FN XLN, DNS, MSTLY NO FLU

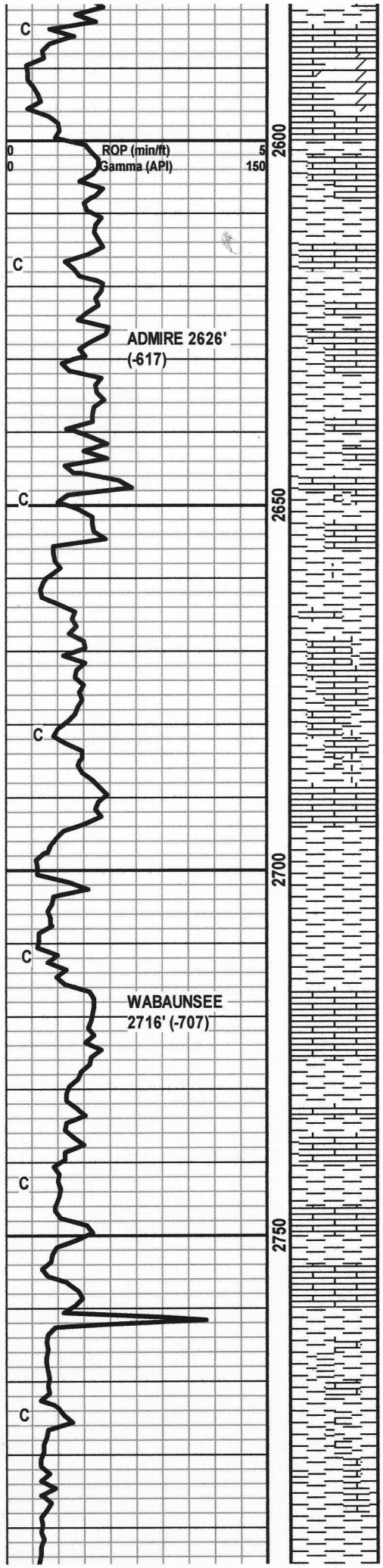


12:01AM 8-4-14


1950
2000
2050
2100
2150
C
C
C
C
C
C
TOP HERRINGTON
2000' (+9)
TOP WINFIELD
2048' (-39)
TOP TOWANDA
2122' (-113)
SH-LT GY, FN TXT, SLI ANHYDRITIC, SLI BLKY
ANHY-OFF WHT, CRM, FN XLN, MSTLY NO FLU, NO STN, TR VV/FAINT ODOR
SH-LT GY, FN TXT, SLI ANHYDRITIC, SLI PLTY
DOLO-V/LT TN, BUFF, FN XLN, V/SCAT TR LT YELLOW MINERAL FLU
LS-WHT, CRM, FN XLN, TR SLI FOSS, SME SLI DOLO'IC, ABUND DULL YELLOW MINERAL FLU
SH-LT GY, GY, FN TXT, SLI CALC, SME SLI ANHYDRITIC, BLKY
LS-CRM, OFF WHT, WHT, FN XLN, TR SLI SHLY, MSTLY DNS, MOD ABUND DULL YELLOW MINERAL FLU
LS-LT TN, BUFF, CRM, FN XLN, SLI DOLO'IC IP, TR POSS STN, NO ODOR,
GAS MAX 27 U
TG, C1-C5
GAS MAX 38 U


0
ROP (min/ft)
5
0
Gamma (API)
150
C
2200
2250
2300
2350
LS-CRM, LT TN, OFF WHT, FN XLN, W/GY CALC SH, TR V/SLI DOLO'IC, SME YELLOW MINERAL FLU
LS-WHT, OFF WHT, CRM, FN XLN, SME DNS, SCAT TR VVF PP INT XLN PORO, NO STN, NO ODOR, YELLOW MINERAL FLU
SH-DK RD, DK GY, FN TXT, SLI CALC IP, SLI PLTY
LS-CRM, WHT, OFF WHT, TR BUFF, FN XLN, SME VVF PP INT XLN PORO, NO STN, NO ODOR, YELLOW MINERAL FLU
SH-DK RD, DK GY, FN TXT, SME SLI CALC, W/WHT TO BUFF MOD DNS LS,
LS-CRM, WHT, FN XLN, SME SCAT VVF PP INT XLN PORO, YELLOW MINERAL FLU
LS-AAB
LS-WHT, CRM, OFF WHT, TR BUFF, FN XLN, MOD DNS, SME SCAT YELLOW MINERAL FLU, W/DK RD
TG, C1-C5


ROP (min/ft)
0
5
Gamma (API)
0
150
2400
2450
2500
2550
C
TOP
COTTONWOOD
2428' (-417)
WOB 30
RPM 80
PS 52
PP 750-800
TOP NEVA
2499'(-490)
TOP RED EAGLE
2548' (-539)
LS-WHT, FN XLN, SLI DOLOIC, NO STN, NO ODOR, SCAT YELLOW MINERAL FLU
LS-WHT, OFF WHT, SME V/LT GY, TR SLI OPA, FN XLN, MOTT IP, SME V/SCAT PP INT XLN PORO, NO STN, NO ODOR, SCAT YELLOW MINERAL FLU
LS-CRM, OFF WHT, TR LT GY, FN XLN, SLI MOTT, NSTLY DNS, V/SCAT YELLOW MINERAL FLU, W/DK RD TO DK GY SH
LS/SH-AAB
SH-DK GY, RD, FN TXT, PLTY, W/SME GY DNS SHLY LS
SH-AAB, W/SME CRM TO LT GY SHLY LS
LS-CRM, OFF WHT, FN XLN, FRM, NON-CHLKY, SLI DOLOIC, W/GY TO RD SH, YELLOW MINERAL FLU
TG, C1-C5
0
INSTRUMENT
CHECK @ GAS
TRAP
GAS MAX 32 U



DOLO-C/LT TN, CRM, FN XLN, SLI SUCROSIC, SLI CALC IP, NO STN, NO ODOR, SME YELLOW MINERAL FLU

LS-CRM, LT GY, FN XLN, SME SLI DOLO'IC, TR POSS DEAD OIL STN, MOTT IP, SHLY IP, SME GRDNG TO CALC SH, MSTLY NO FLU

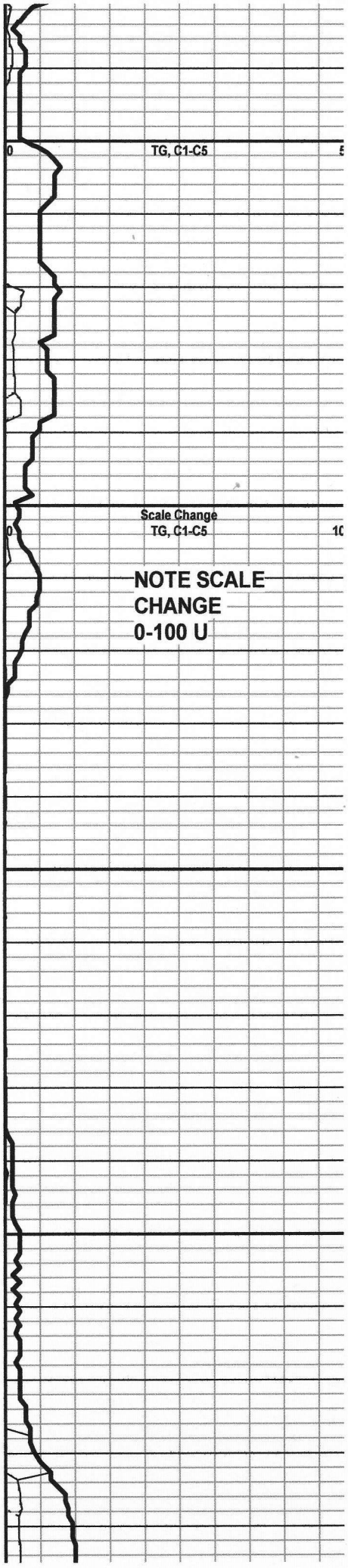
SH-DK GY, TR DK RD, FN TXT, BLKY

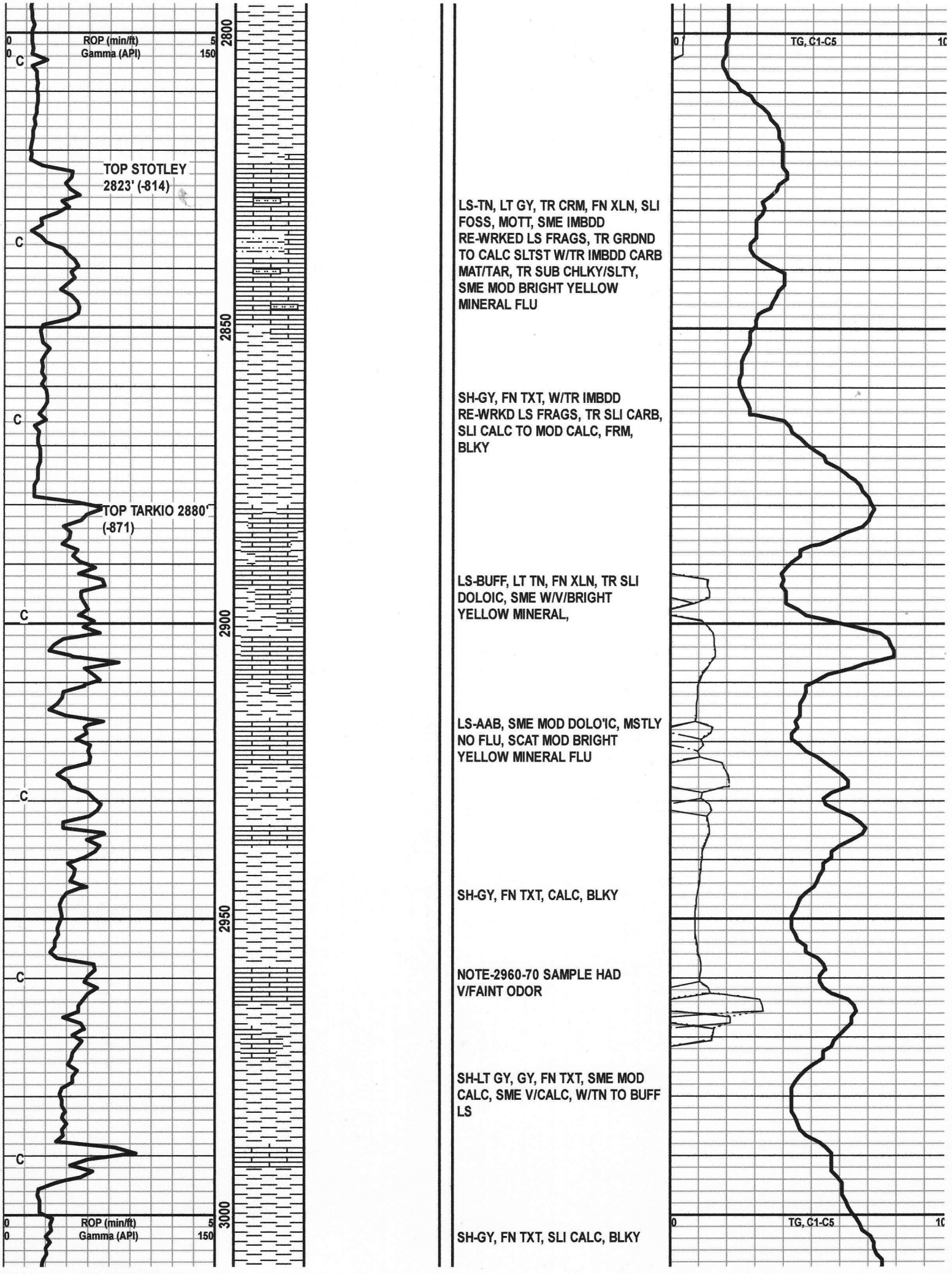
LS-LT TN, FN XLN, MSTLY NO FLU

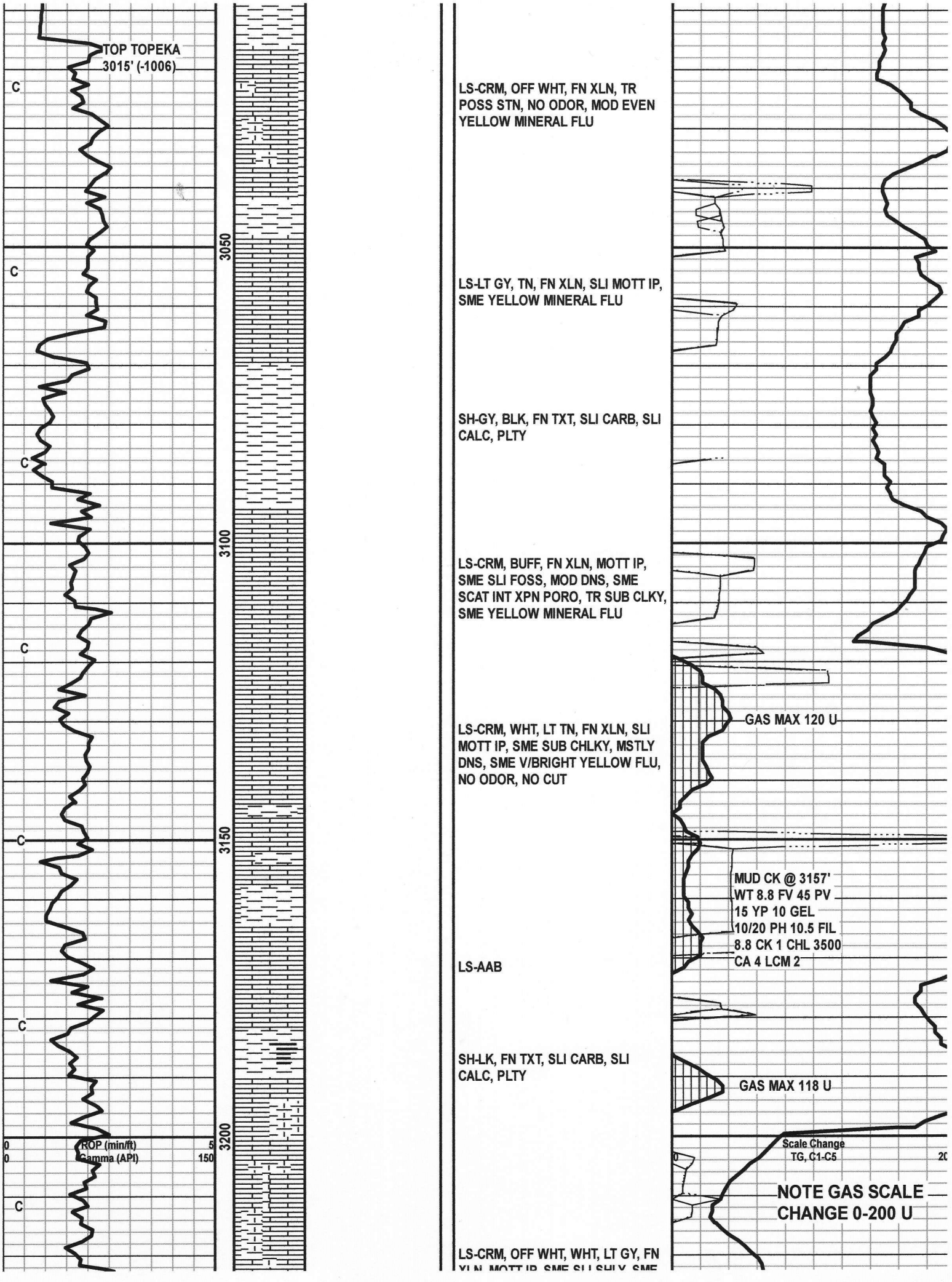
SH-LT GY, DK RD, TR DULL LT GREEN, FN TXT, SME MED TXT, SME SLI CALC, BLKY

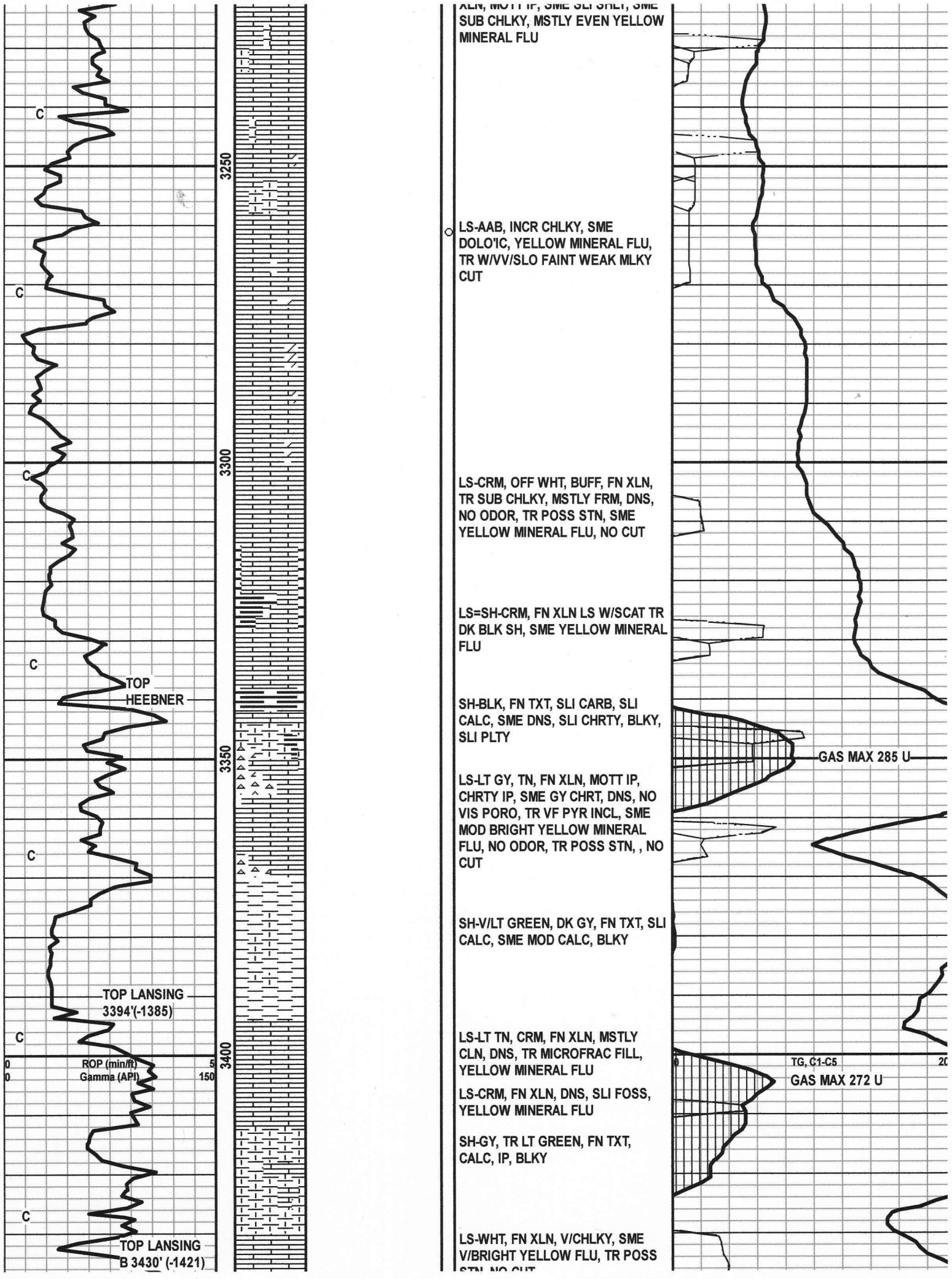
LS-CRM, LT GY, FN XLN, TR SLI SLTY, SLI MOTT IP, SME SCAT DULL YELLOW MINERAL FLU

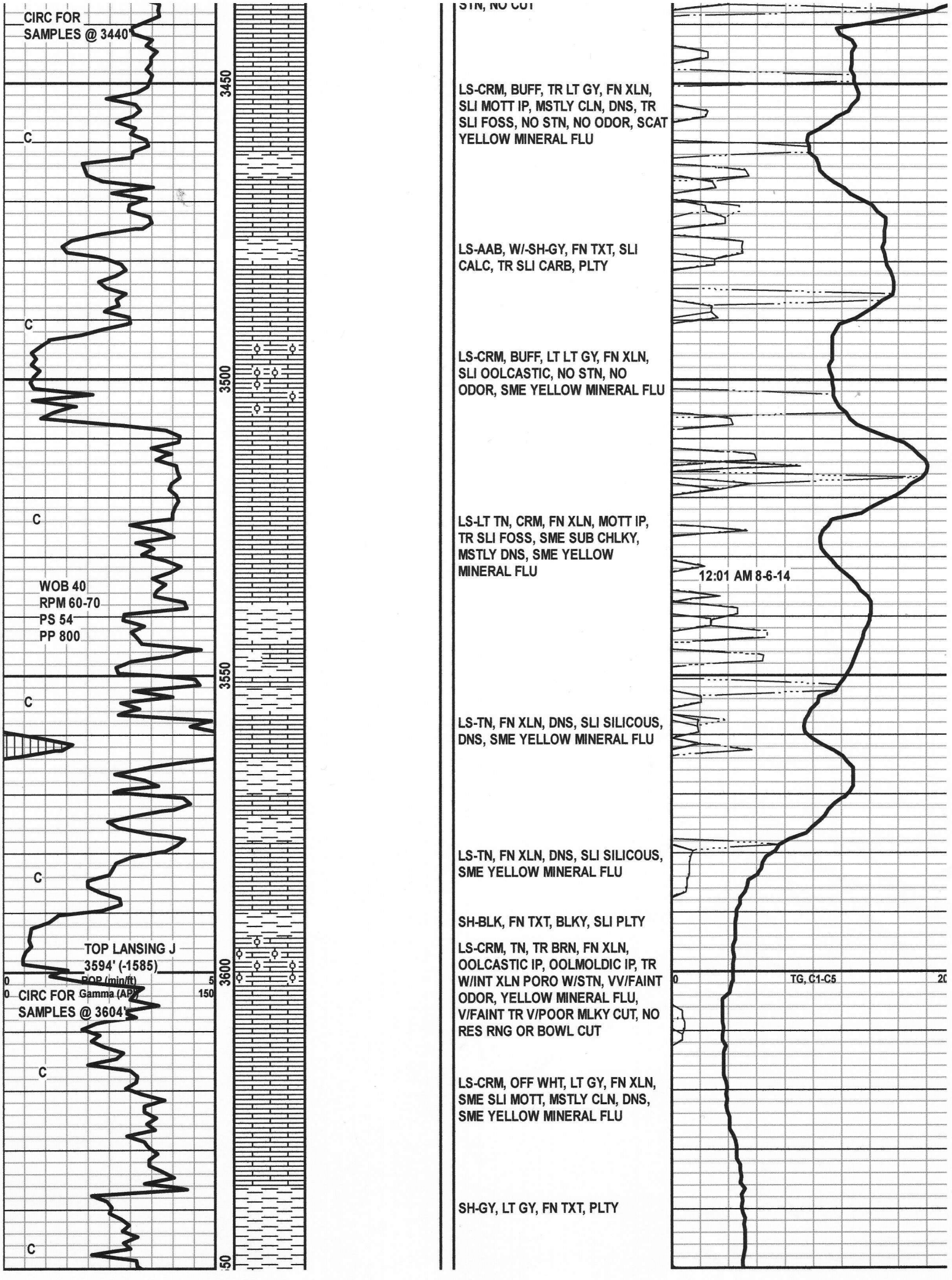
SH-LT GY, GY, FN TO MED TXT, CALC, SME CRM TO LT GY MOTT LS, BLKY

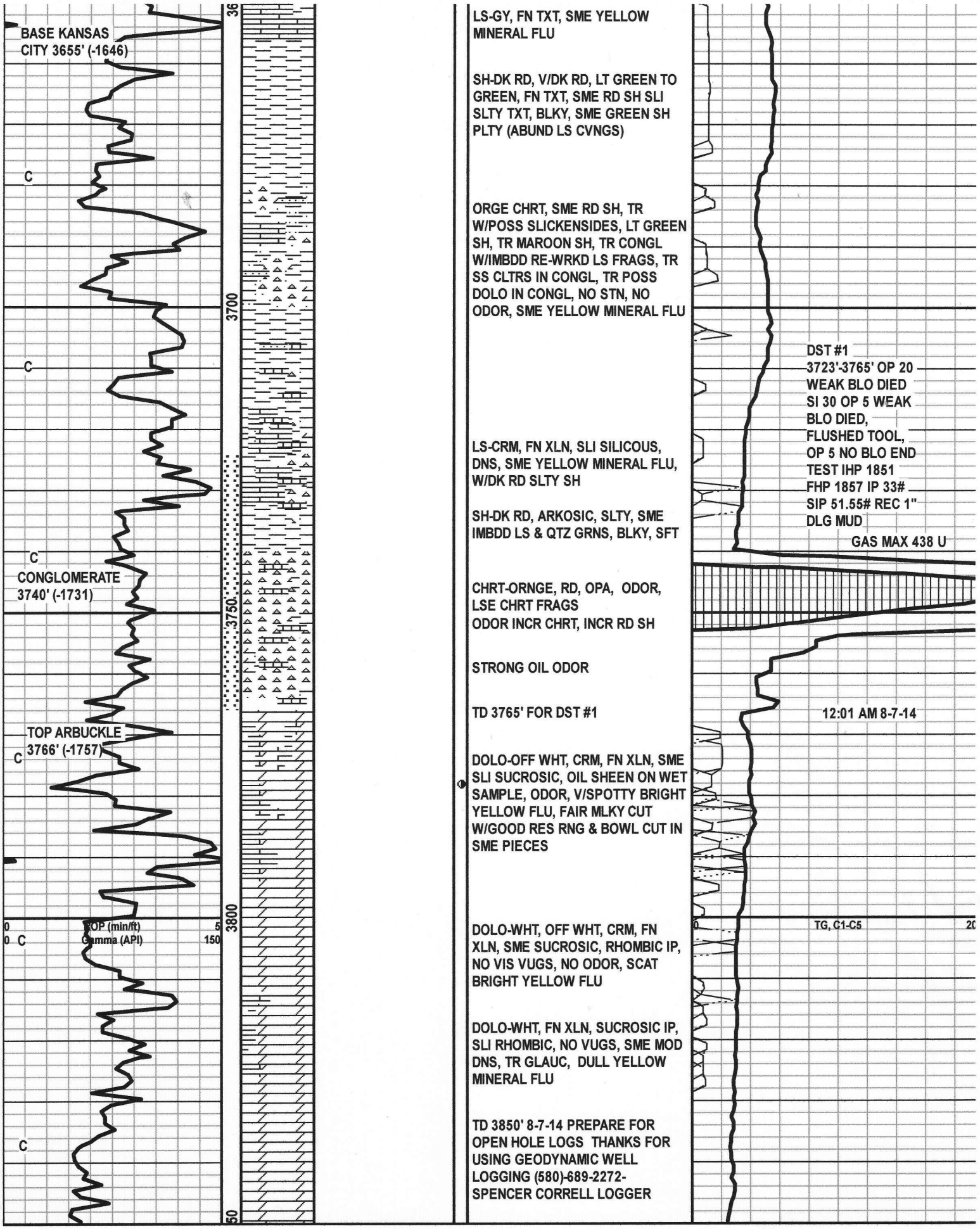



ROP (min/ft)
Gamma (API)
0
0
5
150
C
TOP STOTLEY
2823' (-814)
TOP TARKIO 2880'
(-871)
2800
2850
2900
2950
3000
LS-TN, LT GY, TR CRM, FN XLN, SLI FOSS, MOTT, SME IMBDD RE-WRKED LS FRAGS, TR GRDND TO CALC SLTST W/TR IMBDD CARB MAT/TAR, TR SUB CHLKY/SLTY, SME MOD BRIGHT YELLOW MINERAL FLU
SH-GY, FN TXT, W/TR IMBDD RE-WRKD LS FRAGS, TR SLI CARB, SLI CALC TO MOD CALC, FRM, BLKY
LS-BUFF, LT TN, FN XLN, TR SLI DOLOIC, SME W/V/BRIGHT YELLOW MINERAL,
LS-AAB, SME MOD DOLO'IC, MSTLY NO FLU, SCAT MOD BRIGHT YELLOW MINERAL FLU
SH-GY, FN TXT, CALC, BLKY
NOTE-2960-70 SAMPLE HAD V/FAINT ODOR
SH-LT GY, GY, FN TXT, SME MOD CALC, SME V/CALC, W/TN TO BUFF LS
SH-GY, FN TXT, SLI CALC, BLKY
TG, C1-C5
0
10


TOP TOPEKA
3015' (-1006)
C
C
C
C
C
C
3050
3100
3150
3200
0
ROP (min/ft)
5
0
Gamma (API)
150
LS-CRM, OFF WHT, FN XLN, TR POSS STN, NO ODOR, MOD EVEN YELLOW MINERAL FLU
LS-LT GY, TN, FN XLN, SLI MOTT IP, SME YELLOW MINERAL FLU
SH-GY, BLK, FN TXT, SLI CARB, SLI CALC, PLTY
LS-CRM, BUFF, FN XLN, MOTT IP, SME SLI FOSS, MOD DNS, SME SCAT INT XPN PORO, TR SUB CLKY, SME YELLOW MINERAL FLU
LS-CRM, WHT, LT TN, FN XLN, SLI MOTT IP, SME SUB CHLKY, MSTLY DNS, SME V/BRIGHT YELLOW FLU, NO ODOR, NO CUT
LS-AAB
SH-LK, FN TXT, SLI CARB, SLI CALC, PLTY
LS-CRM, OFF WHT, WHT, LT GY, FN
GAS MAX 120 U
MUD CK @ 3157'
WT 8.8 FV 45 PV
15 YP 10 GEL
10/20 PH 10.5 FIL
8.8 CK 1 CHL 3500
CA 4 LCM 2
GAS MAX 118 U
Scale Change
TG, C1-C5
0
20
NOTE GAS SCALE CHANGE 0-200 U


XLN, MOTT IP, SME SLI SHLY, SME
SUB CHLKY, MSTLY EVEN YELLOW
MINERAL FLU
LS-AAB, INCR CHLKY, SME
DOLO'IC, YELLOW MINERAL FLU,
TR W/VV/SLO FAINT WEAK MLKY
CUT
LS-CRM, OFF WHT, BUFF, FN XLN,
TR SUB CHLKY, MSTLY FRM, DNS,
NO ODOR, TR POSS STN, SME
YELLOW MINERAL FLU, NO CUT
LS=SH-CRM, FN XLN LS W/SCAT TR
DK BLK SH, SME YELLOW MINERAL
FLU
SH-BLK, FN TXT, SLI CARB, SLI
CALC, SME DNS, SLI CHRTY, BLKY,
SLI PLTY
GAS MAX 285 U
LS-LT GY, TN, FN XLN, MOTT IP,
CHRTY IP, SME GY CHRT, DNS, NO
VIS PORO, TR VF PYR INCL, SME
MOD BRIGHT YELLOW MINERAL
FLU, NO ODOR, TR POSS STN, , NO
CUT
SH-V/LT GREEN, DK GY, FN TXT, SLI
CALC, SME MOD CALC, BLKY
LS-LT TN, CRM, FN XLN, MSTLY
CLN, DNS, TR MICROFRAC FILL,
YELLOW MINERAL FLU
LS-CRM, FN XLN, DNS, SLI FOSS,
YELLOW MINERAL FLU
SH-GY, TR LT GREEN, FN TXT,
CALC, IP, BLKY
LS-WHT, FN XLN, V/CHLKY, SME
V/BRIGHT YELLOW FLU, TR POSS
C
C
C
C
C
C
C
C
TOP
HEEBNER
TOP LANSING
3394'(-1385)
TOP LANSING
B 3430' (-1421)
3250
3300
3350
3400
0
0
ROP (min/ft)
Gamma (API)
5
150
TG, C1-C5
GAS MAX 272 U


CIRC FOR SAMPLES @ 3440'
3450
C
C
3500
C
WOB 40
RPM 60-70
PS 54
PP 800
C
3550
C
TOP LANSING J
3594' (-1585)
0
ROP (min/ft)
5
0
CIRC FOR
Gamma (API)
150
SAMPLES @ 3604'
3600
C
C
50
STN, NO CUT
LS-CRM, BUFF, TR LT GY, FN XLN, SLI MOTT IP, MSTLY CLN, DNS, TR SLI FOSS, NO STN, NO ODOR, SCAT YELLOW MINERAL FLU
LS-AAB, W/-SH-GY, FN TXT, SLI CALC, TR SLI CARB, PLTY
LS-CRM, BUFF, LT LT GY, FN XLN, SLI OOLCASTIC, NO STN, NO ODOR, SME YELLOW MINERAL FLU
LS-LT TN, CRM, FN XLN, MOTT IP, TR SLI FOSS, SME SUB CHLKY, MSTLY DNS, SME YELLOW MINERAL FLU
12:01 AM 8-6-14
LS-TN, FN XLN, DNS, SLI SILICOUS, DNS, SME YELLOW MINERAL FLU
LS-TN, FN XLN, DNS, SLI SILICOUS, SME YELLOW MINERAL FLU
SH-BLK, FN TXT, BLKY, SLI PLTY
LS-CRM, TN, TR BRN, FN XLN, OOLCASTIC IP, OOLMOLDIC IP, TR W/INT XLN PORO W/STN, VV/FAINT ODOR, YELLOW MINERAL FLU, V/FAINT TR V/POOR MLKY CUT, NO RES RNG OR BOWL CUT
0
TG, C1-C5
20
LS-CRM, OFF WHT, LT GY, FN XLN, SME SLI MOTT, MSTLY CLN, DNS, SME YELLOW MINERAL FLU
SH-GY, LT GY, FN TXT, PLTY


BASE KANSAS CITY 3655' (-1646)
C
C
C
CONGLOMERATE 3740' (-1731)
TOP ARBUCKLE 3766' (-1757)
C
C
0
0 C
ROP (min/ft)
Gamma (API)
5
150
3600
3700
3750
3800
LS-GY, FN TXT, SME YELLOW MINERAL FLU
SH-DK RD, V/DK RD, LT GREEN TO GREEN, FN TXT, SME RD SH SLI SLTY TXT, BLKY, SME GREEN SH PLTY (ABUND LS CVNGS)
ORGE CHRT, SME RD SH, TR W/POSS SLICKENSIDES, LT GREEN SH, TR MAROON SH, TR CONGL W/IMBDD RE-WRKD LS FRAGS, TR SS CLTRS IN CONGL, TR POSS DOLO IN CONGL, NO STN, NO ODOR, SME YELLOW MINERAL FLU
LS-CRM, FN XLN, SLI SILICOUS, DNS, SME YELLOW MINERAL FLU, W/DK RD SLTY SH
SH-DK RD, ARKOSIC, SLTY, SME IMBDD LS & QTZ GRNS, BLKY, SFT
CHRT-ORNGE, RD, OPA, ODOR, LSE CHRT FRAGS
ODOR INCR CHRT, INCR RD SH
STRONG OIL ODOR
TD 3765' FOR DST #1
DOLO-OFF WHT, CRM, FN XLN, SME SLI SUCROSIC, OIL SHEEN ON WET SAMPLE, ODOR, V/SPOTTY BRIGHT YELLOW FLU, FAIR MLKY CUT W/GOOD RES RNG & BOWL CUT IN SME PIECES
DOLO-WHT, OFF WHT, CRM, FN XLN, SME SUCROSIC, RHOMBIC IP, NO VIS VUGS, NO ODOR, SCAT BRIGHT YELLOW FLU
DOLO-WHT, FN XLN, SUCROSIC IP, SLI RHOMBIC, NO VUGS, SME MOD DNS, TR GLAUC, DULL YELLOW MINERAL FLU
TD 3850' 8-7-14 PREPARE FOR OPEN HOLE LOGS THANKS FOR USING GEODYNAMIC WELL LOGGING (580)-689-2272- SPENCER CORRELL LOGGER
DST #1
3723'-3765' OP 20 WEAK BLO DIED SI 30 OP 5 WEAK BLO DIED, FLUSHED TOOL, OP 5 NO BLO END
TEST IHP 1851 FHP 1857 IP 33# SIP 51.55# REC 1" DLG MUD
GAS MAX 438 U
12:01 AM 8-7-14
0
TG, C1-C5
20

Conservation Division
266 N. Main St., Ste. 220
Wichita, KS 67202-1513

Kansas
Corporation Commission

Phone: 316-337-6200
Fax: 316-337-6211
http://kcc.ks.gov/

January 14, 2015

Alan Barksdale
RMR Operating, LLC
2515 MCKINNEY AVE
SUITE 900
DALLAS, TX 75201

Re: ACO-1
API 15-165-22085-00-00
Besperat 1
SE/4 Sec.18-18S-17W
Rush County, Kansas

Dear Alan Barksdale:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 8/2/2014 and the ACO-1 was received on January 14, 2015 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department