KOLAR Document ID: 1671318

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 # 31938
Name: Indian Oil Co., Inc.
Address 1: 308 S. Main St.
Address 2: PO BOX 209
City: MEDICINE LODGE State: KS Zip: 67104 + 0209
Contact Person: Anthony Farrar
Phone: (620) 886-3763
CONTRACTOR: License # 34484
Name: Fossil Drilling, Inc.
Wellsite Geologist: Aaron Young
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 #:

7/15/2022 Spud Date or Recompletion Date
7/21/2022 Date Reached TD
8/12/2022 Completion Date or Recompletion Date

API No.: 15-007-24431-00-00
Spot Description:
W2 - NW - NW - NE Sec. 35 Twp. 30 S. R. 12 ☐ East ☑ West
330 Feet from ☑ North / ☐ South Line of Section
2890 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: Barber
Lease Name: WARREN Well #: 5
Field Name:
Producing Formation: Mississippi
Elevation: Ground: 1629 Kelly Bushing: 1641
Total Vertical Depth: 4757 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 211 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: 38000 ppm Fluid volume: 800 bbls
Dewatering method used: Evaporated
Location of fluid disposal if hauled offsite:
Operator Name:
Lease Name: License #:
Quarter Sec. Twp. S. R. ☐ East ☐ West
County: Permit #:

AFFIDAVIT
I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY
☐ **Confidentiality Requested**
Date: 11/11/2022
☐ **Confidential Release Date:** 11/10/2024
☑ **Wireline Log Received** ☑ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** David Befort **Date:** 11/22/2022

Operator Name: Indian Oil Co., Inc. Lease Name: WARREN Well #: 5

Sec. 35 Twp. 30 S. R. 12 ☐ East ☑ West County: Barber

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken *(Attach Additional Sheets)*	☑ Yes	☐ No	
Samples Sent to Geological Survey	☑ Yes	☐ No	
Cores Taken	☐ Yes	☑ No	
Electric Log Run	☑ Yes	☐ No	
Geologist Report / Mud Logs	☑ Yes	☐ No	

List All E. Logs Run: Attached

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

Name Top Datum

Attached Attached Attached

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
Conductor	17.5	13.375	48	42	class A	135	2% CaCl; Cello-flake
Surface	12.25	8.625	23	225	60/40 poz mix	200	CaCl
Production	7.875	5.5	15.5	4753	H-long	175	+30 rat, 20 mouse

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	-			
	-			

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: 8/24/2022	Producing Method: ☐ Flowing ☑ Pumping ☐ Gas Lift ☐ Other *(Explain)*					
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity	

DISPOSITION OF GAS:	METHOD OF COMPLETION:	PRODUCTION INTERVAL:	
		Top	Bottom
☐ Vented ☑ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*	☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*	4234	4266

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record *(Amount and Kind of Material Used)*
2	4234	4252			750 gal 15% MCA, 1250 gal 15% NEFE, 90 balls
1	4258	4266			225000# SAND, 9102 BBL HYBRID SLICKWATER FRAC

TUBING RECORD: Size: Set At: Packer At:

Mail to: KCC - Conservation Division, 266 N. Main, Suite 220, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Indian Oil Co., Inc.
Well Name	WARREN 5
Doc ID	1671318

All Electric Logs Run

SONIC
COMP DENSITY/NEUTRON PE
MICRO LOG
FRAC FINDER
DUAL INDUCTION

Form	ACO1 - Well Completion
Operator	Indian Oil Co., Inc.
Well Name	WARREN 5
Doc ID	1671318

Tops

Name	Top	Datum
Heebner	3536	-1895
Douglas	3568	-1927
Upper Douglas Sand	3593	-1952
Lower Douglas Sand	3702	-2061
Brown Lime	3720	-2079
Lansing	3733	-2092
Stark	4061	-2420
Hushpuckney	4099	-2458
Mississippi	4234	-2593
Kinderhook	4344	-2703
Viola	4504	-2863
Simpson Shale	4578	-2937
Simpson Sand	4580	-2939
Arbuckle	4696	-3055

Form	ACO1 - Well Completion
Operator	Indian Oil Co., Inc.
Well Name	WARREN 5
Doc ID	1671318

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Conductor	17.5	13.375	48	42	class A	135	2% CaCl; Cello-flake
Surface	12.25	8.625	23	225	60/40 poz mix	200	CaCl
Production	7.875	5.5	15.5	4753	H-long	175	+30 rat, 20 mouse

Geologic Report

Aaron L. Young

Drilling Time and Sample Log

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

Well Name:	**Warren #5-35**		
API:	**15-007-24431**		
Location:	**Section 35 - T30S - R12W**		
License Number:	**31938**	**Region:**	**Barber Co., KS**
Spud Date:	**07/15/2022**	**Drilling Completed:**	**07/21/2022**
Surface Coordinates:	**330' FNL and 2890' FWL**		
Bottom Hole Coordinates:			
Ground Elevation (ft):	**1629'**	**K.B. Elevation (ft):**	**1641'**
Logged Interval (ft):	**3500' To: 4757'**	**Total Depth (ft):**	**4757'**
Formation:	**Arbuckle**		
Type of Drilling Fluid:	**Chemical - MudCo**		

OPERATOR

Company: Indian Oil Co., Inc
Address: PO Box 209
Medicine Lodge, KS 67104-0209

GEOLOGIST

Name: Aaron L. Young, M.S.
Company: Young Consulting LLC
Address: 100 S Main, Suite 505
Wichita, Kansas 67202

General Info

CONTRACTOR: Fossil Drilling Rig #3

BIT RECORD:

No.	Size	Make	Jets	Out	Feet	Hours
1	17-1/2	RR	18-18-18	71'	71'	1.00
2	12-1/4	RR	16-16-16	235'	164'	7.00
3	7-7/8	MI 516	16-16-16	4757'	4522'	73.00

Surveys: 732'-.75, 1239'-.25, 1739'-.5, 2222'-.5, 2791'-.5, 3361'-.5, 3867'-.5, 4757'-.75

GENERAL DRILLING AND PUMP INFORMATION:
Drilling with 8,000-10,000 lbs. on bit and approx 100-110 RPM.
Pumping approx 950-1000 psi at standpipe @ 58 SPM

Daily Status

07/15/22 Spud @ 6:45pm, Ran 1 joint of conductor pipe
07/16/22 Drilling @ 101'. Drilled to 235'. Ran 5 joints of 8-5/8" J55 23# surface casing, length 211', set at 225'
07/17/22 Drilling @ 915'
07/18/22 Drilling @ 2286'
07/19/22 Drilling @ 3139'
07/20/22 C.T.C.H before TOH for DST #1
07/21/22 Drilling @ 4470', TD'd @ 4757', Logged
07/22/22 LDDP, ran 112 jts of new MW-55 5-1/2" 15.50# production casing set at 4753'. Cem w/ 175 sx. 30 sx for rat hole. 20 sx for mouse hole.

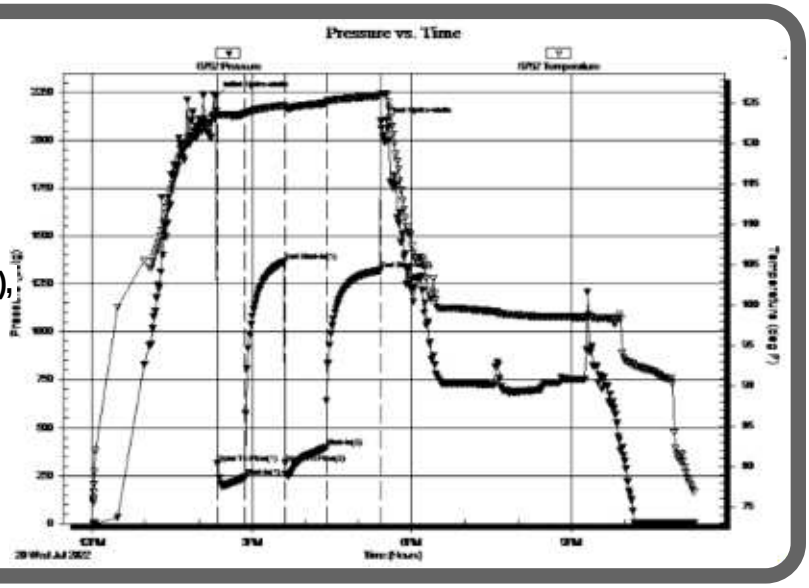
DST #1 Miss 4216' - 4308' 30" - 45" - 45" - 60"

IF: BOB in 10 sec. GTS in 5 min
ISI: Blow back built to 69.11 inches
FF: BOB & GTS Immediately
FSI: Blow back built to 142.11 inches

Rec'd: 2784' GIP, 121' GWOCM (20% G, 5% W, 25% O, 50% M), 1305' GO, (40% G, 60% O)

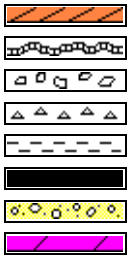
Guaged 95.68 mcf/d

SIP: 1366-1320#
FP: 316-240#, 317-398#
HP: 2224-2095#



Log Tops		
Heebner	3536	-1895
Douglas	3568	-1927
Upper Douglas Sand	3593	-1952
Lower Douglas Sand	3702	-2061
Brown Lime	3720	-2079
Lansing	3733	-2092
Stark	4061	-2420
Hushpuckney	4099	-2458
Mississippi	4234	-2593
Kinderhook	4344	-2703
Viola	4504	-2863
Simpson Shale	4578	-2937
Simpson Sand	4580	-2939
Arbuckle	4696	-3055

ROCK TYPES



Anhy
Bent
Brec
Cht
Clyst
Coal
Congl
Dol
Gyp
Igne
Lmst
Meta
Mrlst
Salt
Shale
Shcol
Shgy
Sltst
Ss
Till
Carb sh
Dol
Dtd
Gry sh
Sandylms
Shale
Sltstn
Shlyslts
Sltysh
Lms

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
Chlorite
Dol
Sand
Slty

FOSSIL

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

STRINGER

Anhy
Arg
Bent
Coal
Dol
Gyp
Ls
Mrst
Sltstrg
Ssstrg
Carbsh
Clystn
Dol
Grysh
Gryslt
Lms
Sandylms
Sh
Sltstn

TEXTURE

Boundst
Chalky
Cryxln
Earthy
Finexln
Grainst
Lithogr
Microxln
Mudst
Packst
Wackest

OTHER SYMBOLS

POROSITY TYPE

Earthy
Fenest
Fracture
Inter
Moldic
Organic
Pinpoint
Vuggy

SORTING

Well
Moderate
Poor

ROUNDING

Rounded
Subrnd
Subang
Angular

OIL SHOWS

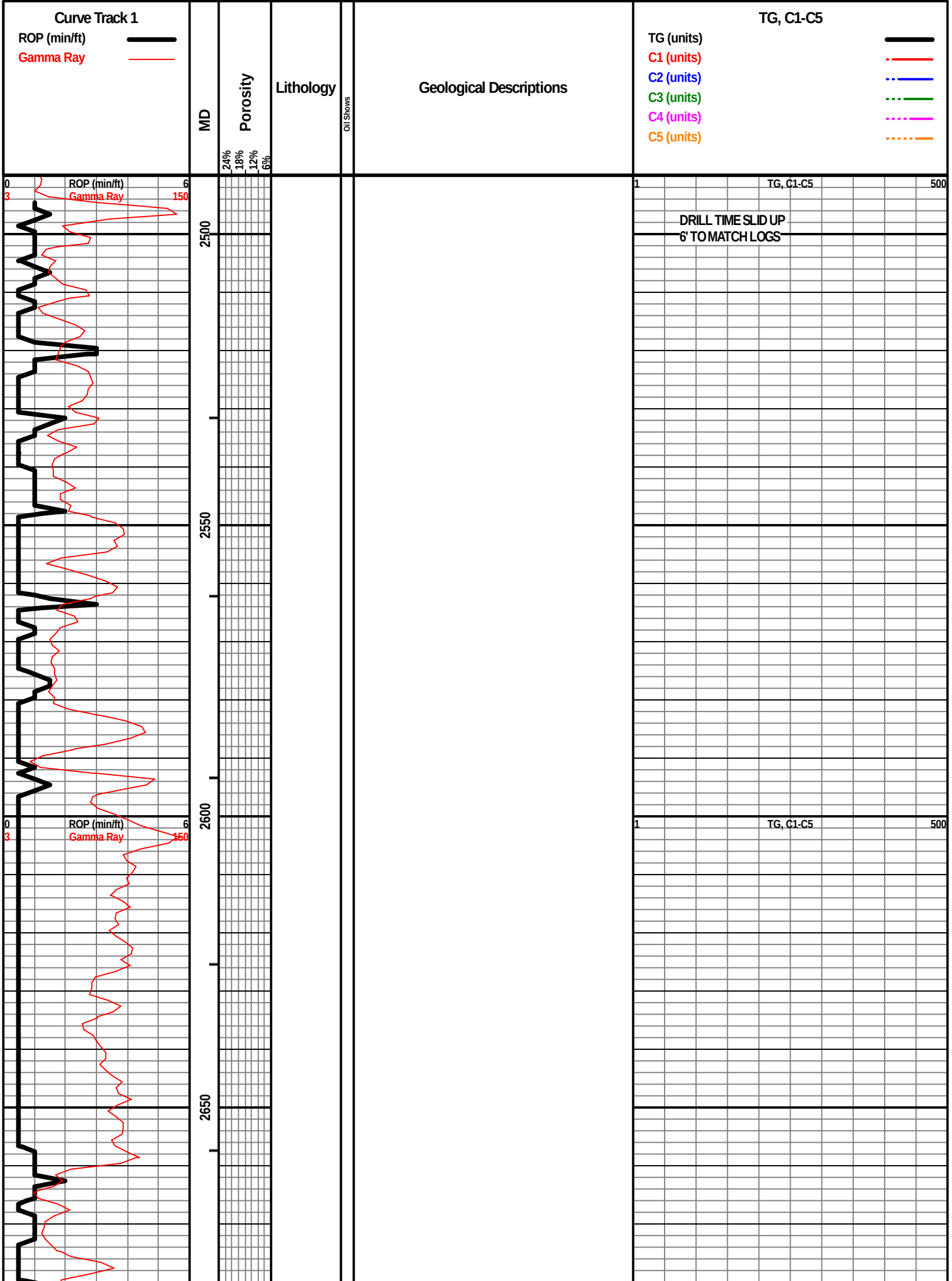
Even
Spotted
Ques
Dead
Gas show

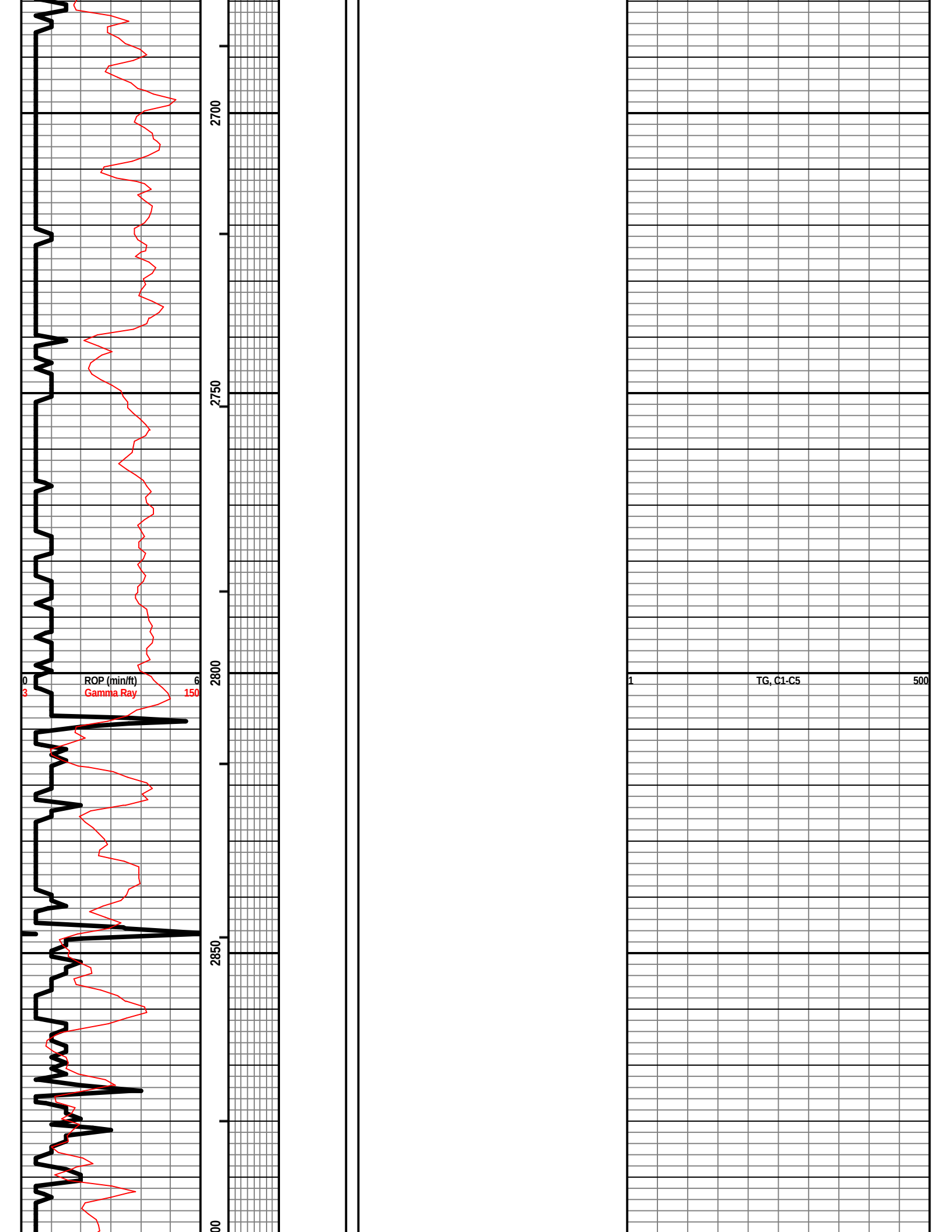
INTERVALS

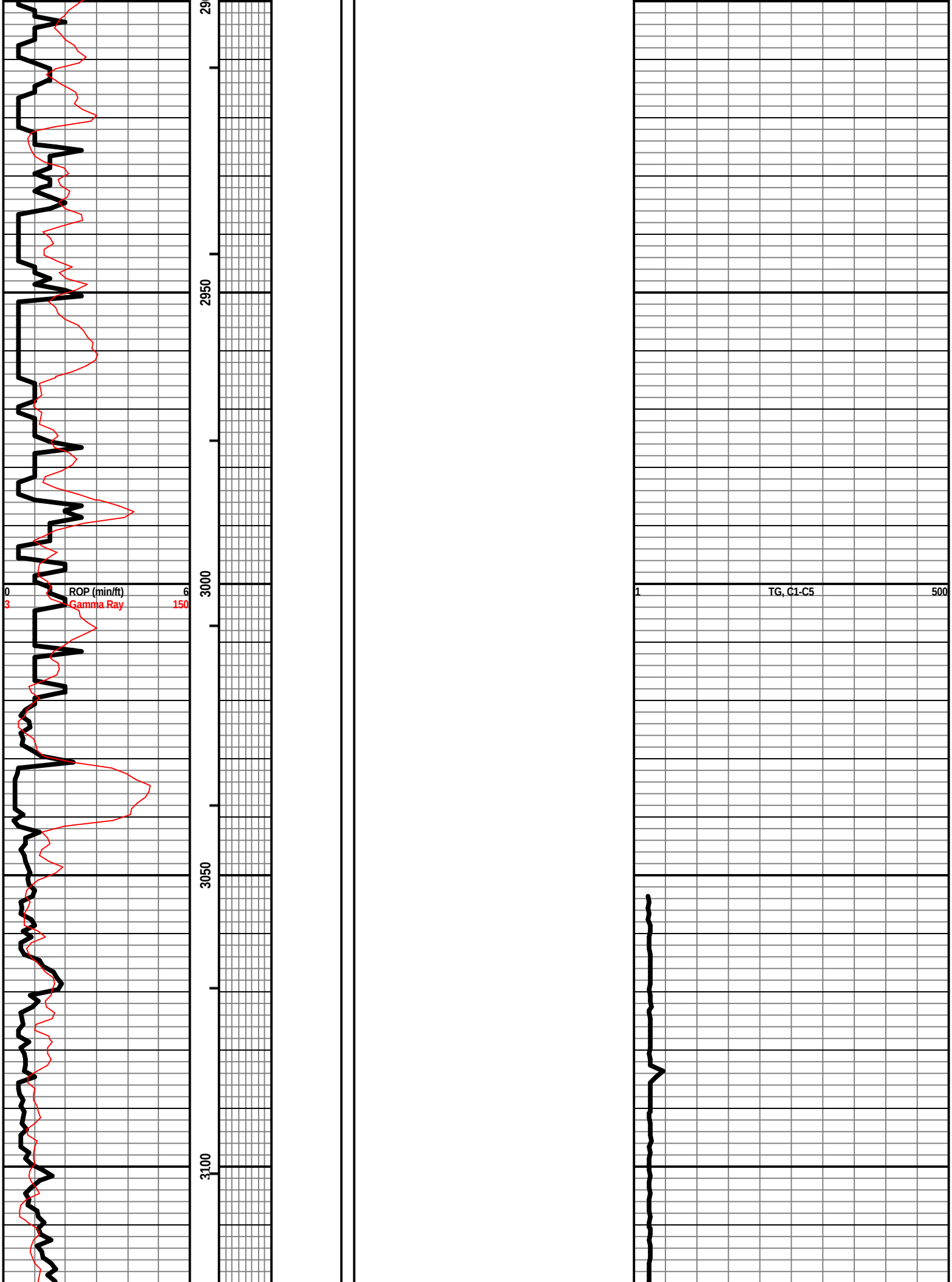
Core
Dst
Dst

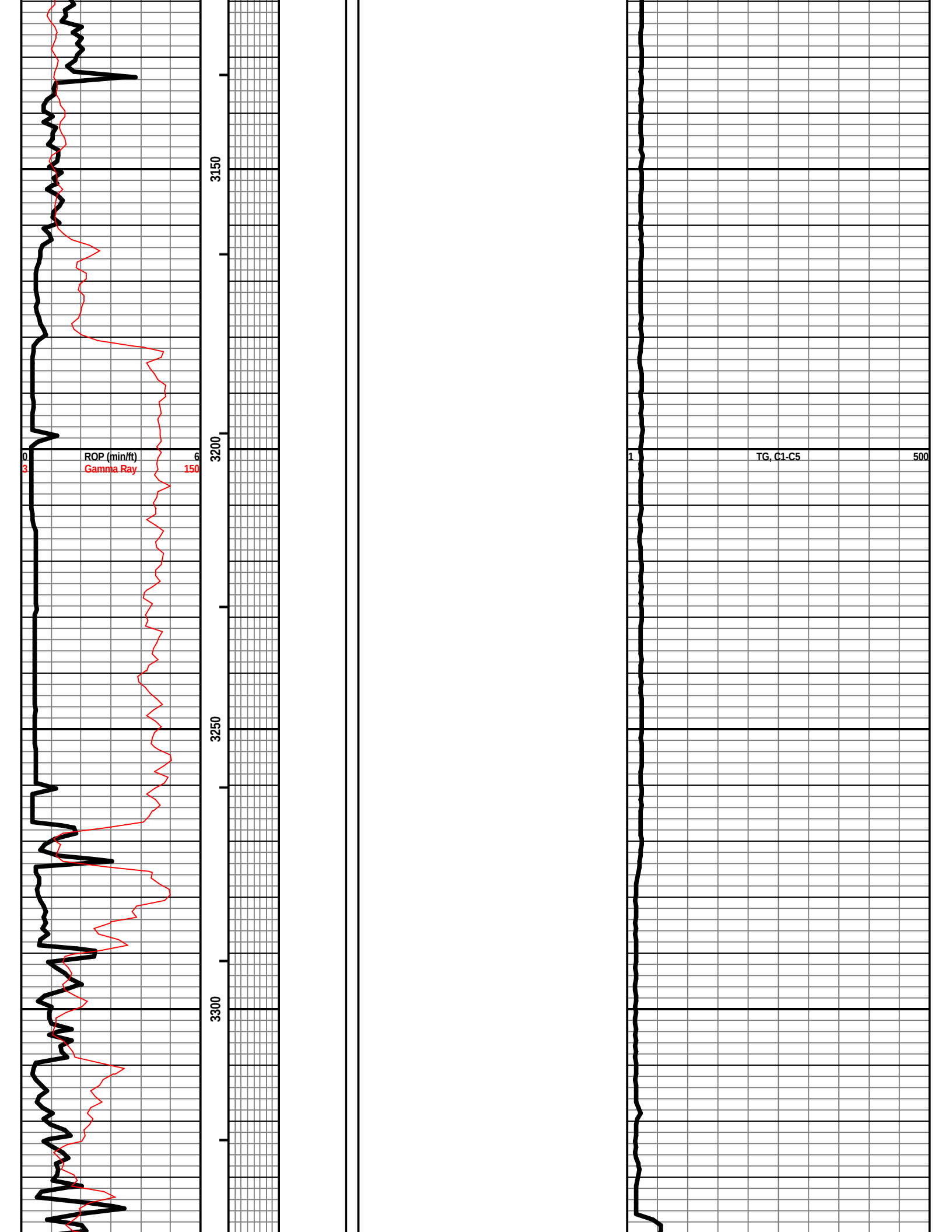
EVENTS

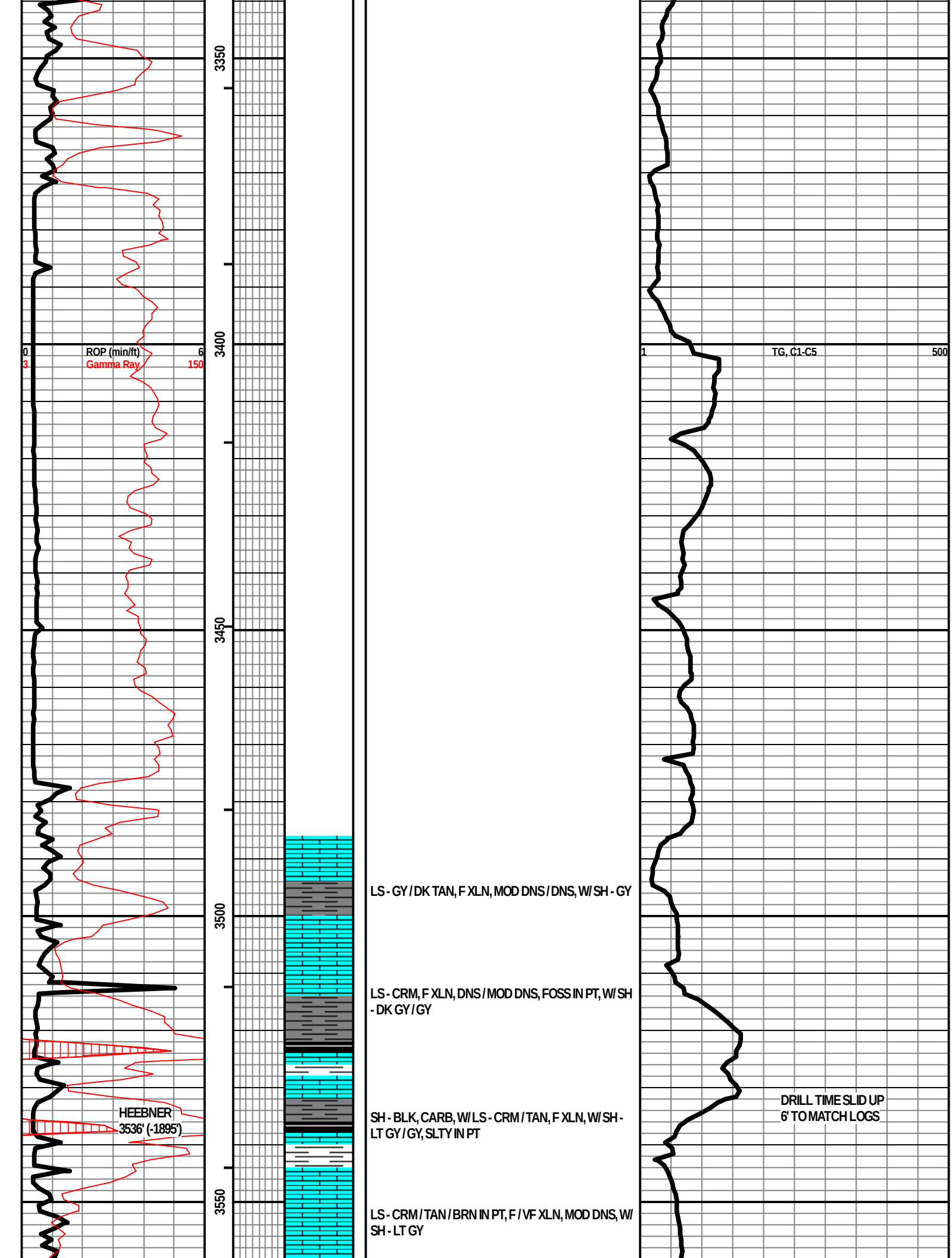
Rft
Sidewall
Conn

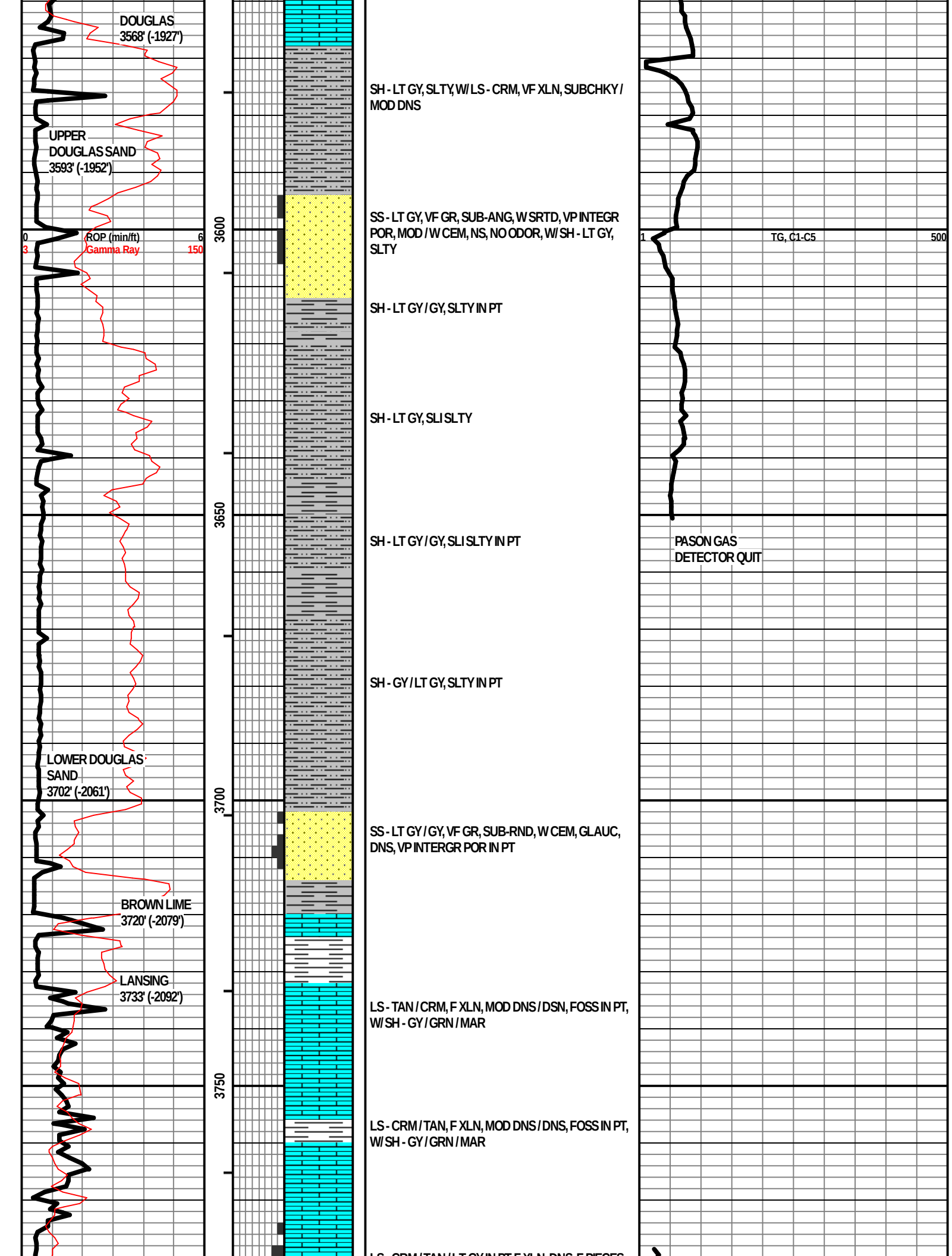

Curve Track 1
ROP (min/ft)
Gamma Ray
MD
Porosity
24%
18%
12%
6%
Lithology
Oil Shows
Geological Descriptions
TG, C1-C5
TG (units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
C5 (units)
0
3
ROP (min/ft)
Gamma Ray
6
150
1
TG, C1-C5
500
DRILL TIME SLID UP
6' TO MATCH LOGS
2500
2550
2600
2650

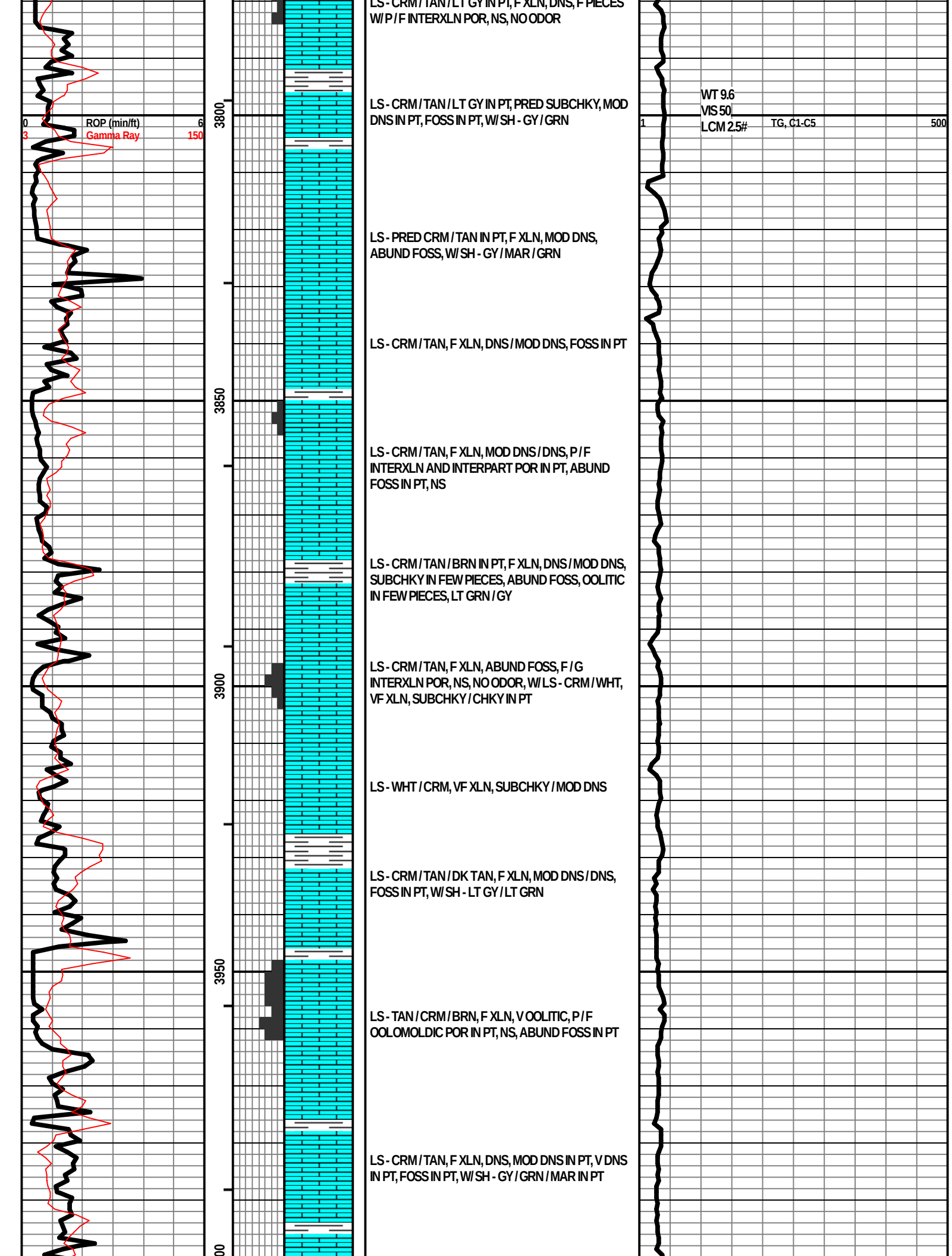

0
ROP (min/ft)
6
3
Gamma Ray
150
1
TG, C1-C5
500
2700
2750
2800
2850

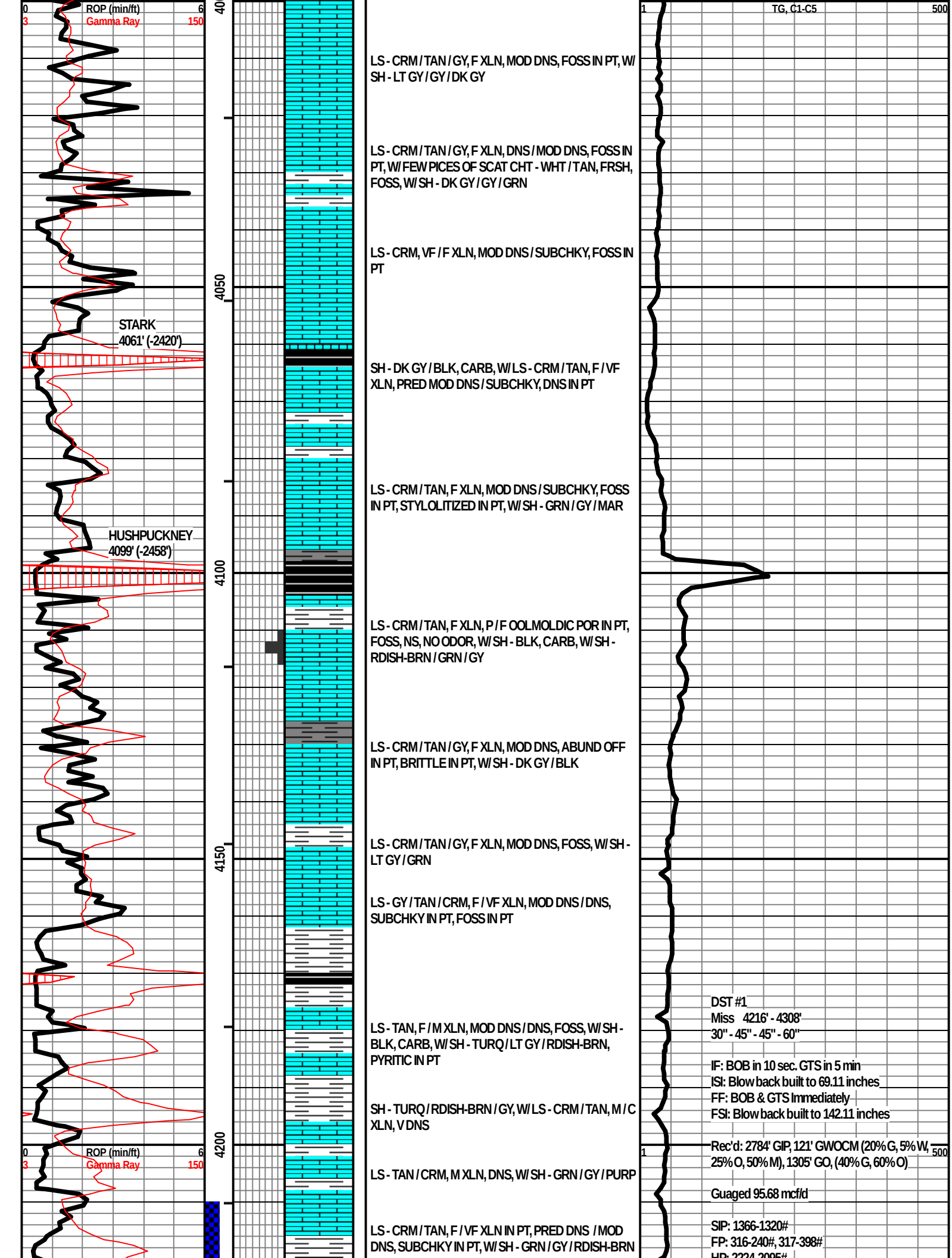

0
ROP (min/ft)
6
3
Gamma Ray
150
2950
3000
3050
3100
1
TG, C1-C5
500

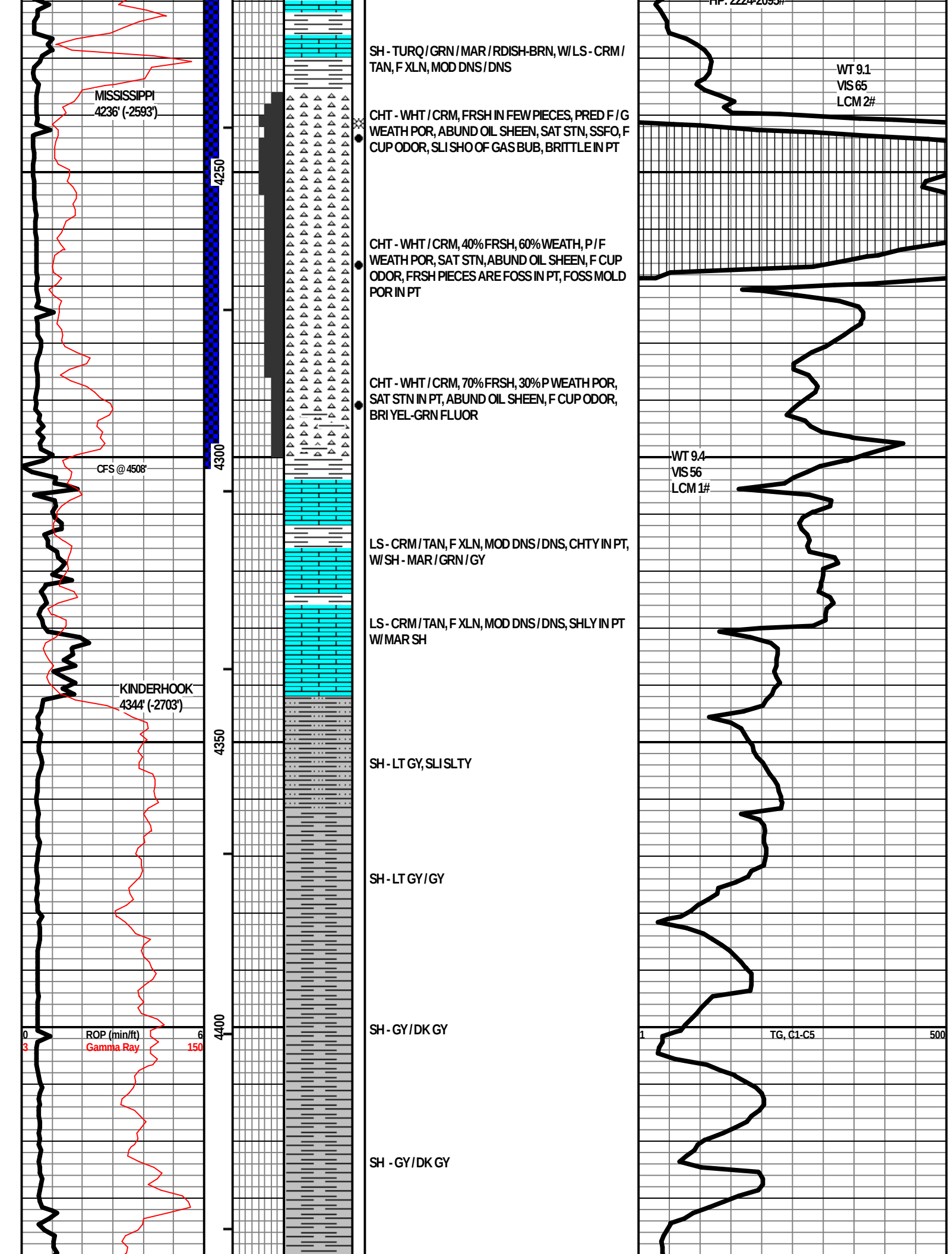

0
ROP (min/ft)
6
3
Gamma Ray
150
3150
3200
3250
3300
1
TG, C1-C5
500

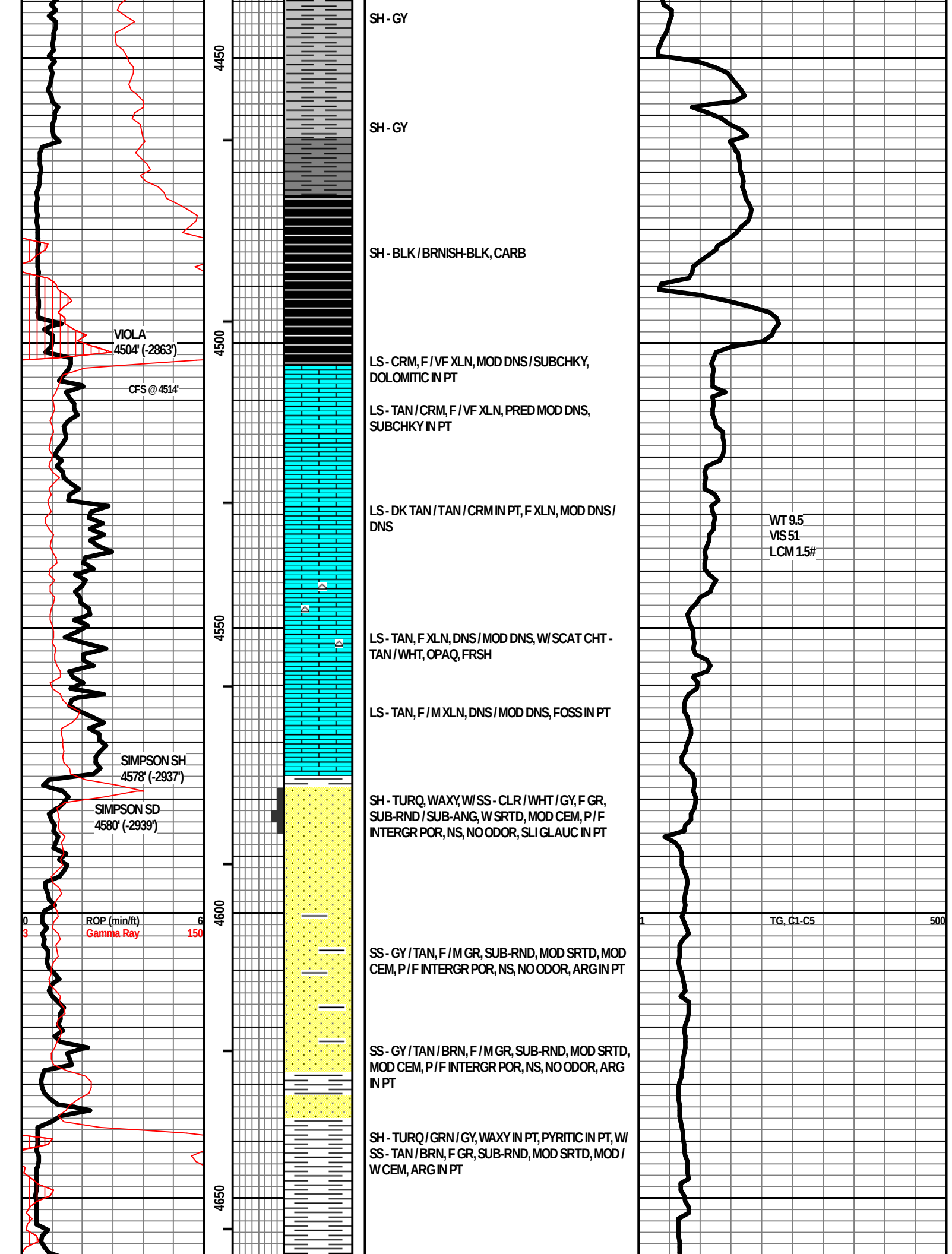

0
ROP (min/ft)
6
3
Gamma Ray
150
1
TG, C1-C5
500
3350
3400
3450
3500
3550
HEEBNER
3536' (-1895')
LS - GY / DK TAN, F XLN, MOD DNS / DNS, W/ SH - GY
LS - CRM, F XLN, DNS / MOD DNS, FOSS IN PT, W/ SH - DK GY / GY
SH - BLK, CARB, W/ LS - CRM / TAN, F XLN, W/ SH - LT GY / GY, SLTY IN PT
LS - CRM / TAN / BRN IN PT, F / VF XLN, MOD DNS, W/ SH - LT GY
DRILL TIME SLID UP 6' TO MATCH LOGS

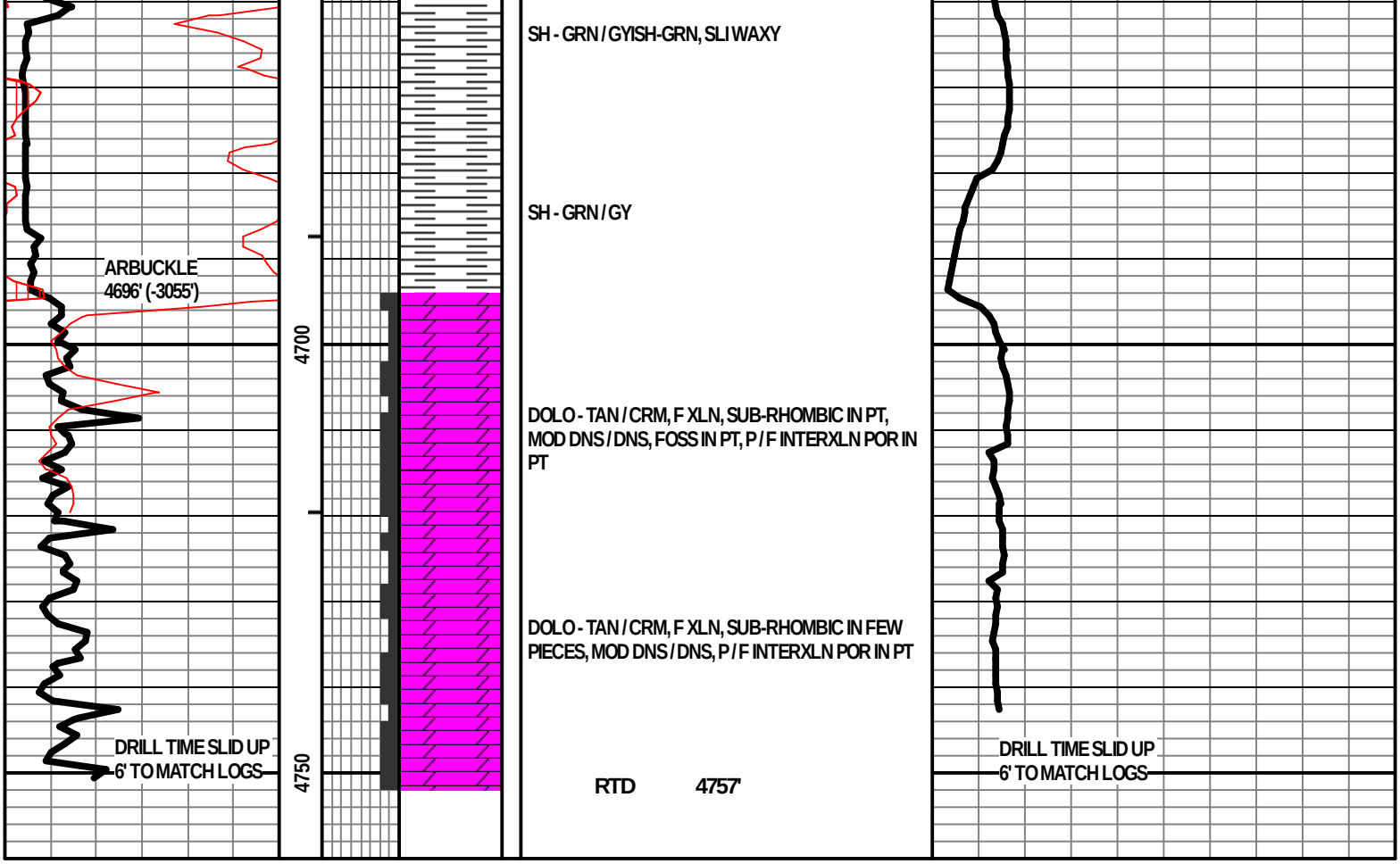

DOUGLAS
3568' (-1927')
UPPER
DOUGLAS SAND
3593' (-1952')
0
ROP (min/ft)
6
3
Gamma Ray
150
3600
3650
3700
3750
LOWER DOUGLAS
SAND
3702' (-2061')
BROWN LIME
3720' (-2079')
LANSING
3733' (-2092')
SH - LT GY, SLTY, W/ LS - CRM, VF XLN, SUBCHKY / MOD DNS
SS - LT GY, VF GR, SUB-ANG, W SRTD, VP INTEGR POR, MOD / W CEM, NS, NO ODOR, W/ SH - LT GY, SLTY
SH - LT GY / GY, SLTY IN PT
SH - LT GY, SLI SLTY
SH - LT GY / GY, SLI SLTY IN PT
SH - GY / LT GY, SLTY IN PT
SS - LT GY / GY, VF GR, SUB-RND, W CEM, GLAUC, DNS, VP INTERGR POR IN PT
LS - TAN / CRM, F XLN, MOD DNS / DSN, FOSS IN PT, W/ SH - GY / GRN / MAR
LS - CRM / TAN, F XLN, MOD DNS / DNS, FOSS IN PT, W/ SH - GY / GRN / MAR
1
TG, C1-C5
500
PASON GAS
DETECTOR QUIT


0
ROP (min/ft)
6
3
Gamma Ray
150
3800
3850
3900
3950
LS - CRM / TAN / LT GY IN PT, F XLN, DNS, F PIECES W/ P / F INTERXLN POR, NS, NO ODOR
LS - CRM / TAN / LT GY IN PT, PRED SUBCHKY, MOD DNS IN PT, FOSS IN PT, W/ SH - GY / GRN
LS - PRED CRM / TAN IN PT, F XLN, MOD DNS, ABUND FOSS, W/ SH - GY / MAR / GRN
LS - CRM / TAN, F XLN, DNS / MOD DNS, FOSS IN PT
LS - CRM / TAN, F XLN, MOD DNS / DNS, P / F INTERXLN AND INTERPART POR IN PT, ABUND FOSS IN PT, NS
LS - CRM / TAN / BRN IN PT, F XLN, DNS / MOD DNS, SUBCHKY IN FEW PIECES, ABUND FOSS, OOLITIC IN FEW PIECES, LT GRN / GY
LS - CRM / TAN, F XLN, ABUND FOSS, F / G INTERXLN POR, NS, NO ODOR, W/ LS - CRM / WHT, VF XLN, SUBCHKY / CHKY IN PT
LS - WHT / CRM, VF XLN, SUBCHKY / MOD DNS
LS - CRM / TAN / DK TAN, F XLN, MOD DNS / DNS, FOSS IN PT, W/ SH - LT GY / LT GRN
LS - TAN / CRM / BRN, F XLN, V OOLITIC, P / F OOLOMOLDIC POR IN PT, NS, ABUND FOSS IN PT
LS - CRM / TAN, F XLN, DNS, MOD DNS IN PT, V DNS IN PT, FOSS IN PT, W/ SH - GY / GRN / MAR IN PT
WT 9.6
VIS 50
LCM 2.5#
1
TG, C1-C5
500


0
3
ROP (min/ft)
Gamma Ray
6
150
4000
4050
4100
4150
4200
STARK
4061' (-2420')
HUSHPUCKNEY
4099' (-2458')
LS - CRM / TAN / GY, F XLN, MOD DNS, FOSS IN PT, W/ SH - LT GY / GY / DK GY
LS - CRM / TAN / GY, F XLN, DNS / MOD DNS, FOSS IN PT, W/ FEW PICES OF SCAT CHT - WHT / TAN, FRSH, FOSS, W/ SH - DK GY / GY / GRN
LS - CRM, VF / F XLN, MOD DNS / SUBCHKY, FOSS IN PT
SH - DK GY / BLK, CARB, W/ LS - CRM / TAN, F / VF XLN, PRED MOD DNS / SUBCHKY, DNS IN PT
LS - CRM / TAN, F XLN, MOD DNS / SUBCHKY, FOSS IN PT, STYLOLITIZED IN PT, W/ SH - GRN / GY / MAR
LS - CRM / TAN, F XLN, P / F OOLMOLDIC POR IN PT, FOSS, NS, NO ODOR, W/ SH - BLK, CARB, W/ SH - RDISH-BRN / GRN / GY
LS - CRM / TAN / GY, F XLN, MOD DNS, ABUND OFF IN PT, BRITTLE IN PT, W/ SH - DK GY / BLK
LS - CRM / TAN / GY, F XLN, MOD DNS, FOSS, W/ SH - LT GY / GRN
LS - GY / TAN / CRM, F / VF XLN, MOD DNS / DNS, SUBCHKY IN PT, FOSS IN PT
LS - TAN, F / M XLN, MOD DNS / DNS, FOSS, W/ SH - BLK, CARB, W/ SH - TURQ / LT GY / RDISH-BRN, PYRITIC IN PT
SH - TURQ / RDISH-BRN / GY, W/ LS - CRM / TAN, M / C XLN, V DNS
LS - TAN / CRM, M XLN, DNS, W/ SH - GRN / GY / PURP
LS - CRM / TAN, F / VF XLN IN PT, PRED DNS / MOD DNS, SUBCHKY IN PT, W/ SH - GRN / GY / RDISH-BRN
1
TG, C1-C5
500
DST #1
Miss 4216' - 4308'
30" - 45" - 45" - 60"
IF: BOB in 10 sec. GTS in 5 min
ISI: Blow back built to 69.11 inches
FF: BOB & GTS Immediately
FSI: Blow back built to 142.11 inches
Rec'd: 2784' GIP, 121' GWOCM (20% G, 5% W, 25% O, 50% M), 1305' GO, (40% G, 60% O)
Guaged 95.68 mcf/d
SIP: 1366-1320#
FP: 316-240#, 317-398#
HP: 2224-2095#


MISSISSIPPI
4236' (-2593')
CFS @ 4508'
KINDERHOOK
4344' (-2703')
4250
4300
4350
4400
SH - TURQ / GRN / MAR / RDISH-BRN, W/ LS - CRM / TAN, F XLN, MOD DNS / DNS
CHT - WHT / CRM, FRSH IN FEW PIECES, PRED F / G WEATH POR, ABUND OIL SHEEN, SAT STN, SSFO, F CUP ODOR, SLI SHO OF GAS BUB, BRITTLE IN PT
CHT - WHT / CRM, 40% FRSH, 60% WEATH, P / F WEATH POR, SAT STN, ABUND OIL SHEEN, F CUP ODOR, FRSH PIECES ARE FOSS IN PT, FOSS MOLD POR IN PT
CHT - WHT / CRM, 70% FRSH, 30% P WEATH POR, SAT STN IN PT, ABUND OIL SHEEN, F CUP ODOR, BRI YEL-GRN FLUOR
LS - CRM / TAN, F XLN, MOD DNS / DNS, CHTY IN PT, W/ SH - MAR / GRN / GY
LS - CRM / TAN, F XLN, MOD DNS / DNS, SHLY IN PT W/ MAR SH
SH - LT GY, SLI SLTY
SH - LT GY / GY
SH - GY / DK GY
SH - GY / DK GY
HP: 2224-2095#
WT 9.1
VIS 65
LCM 2#
WT 9.4
VIS 56
LCM 1#
0
ROP (min/ft)
6
3
Gamma Ray
150
1
TG, C1-C5
500


4450
4500
4550
4600
4650
VIOLA
4504' (-2863')
CFS @ 4514'
SIMPSON SH
4578' (-2937')
SIMPSON SD
4580' (-2939')
0
3
ROP (min/ft)
Gamma Ray
6
150
SH - GY
SH - GY
SH - BLK / BRNISH-BLK, CARB
LS - CRM, F / VF XLN, MOD DNS / SUBCHKY, DOLOMITIC IN PT
LS - TAN / CRM, F / VF XLN, PRED MOD DNS, SUBCHKY IN PT
LS - DK TAN / TAN / CRM IN PT, F XLN, MOD DNS / DNS
LS - TAN, F XLN, DNS / MOD DNS, W/ SCAT CHT - TAN / WHT, OPAQ, FRSH
LS - TAN, F / M XLN, DNS / MOD DNS, FOSS IN PT
SH - TURQ, WAXY, W/ SS - CLR / WHT / GY, F GR, SUB-RND / SUB-ANG, W SRTD, MOD CEM, P / F INTERGR POR, NS, NO ODOR, SLI GLAUC IN PT
SS - GY / TAN, F / M GR, SUB-RND, MOD SRTD, MOD CEM, P / F INTERGR POR, NS, NO ODOR, ARG IN PT
SS - GY / TAN / BRN, F / M GR, SUB-RND, MOD SRTD, MOD CEM, P / F INTERGR POR, NS, NO ODOR, ARG IN PT
SH - TURQ / GRN / GY, WAXY IN PT, PYRITIC IN PT, W/ SS - TAN / BRN, F GR, SUB-RND, MOD SRTD, MOD / W CEM, ARG IN PT
WT 9.5
VIS 51
LCM 1.5#
1
TG, C1-C5
500


SH - GRN / GYISH-GRN, SLI WAXY
SH - GRN / GY
ARBUCKLE
4696' (-3055')
4700
DOLO - TAN / CRM, F XLN, SUB-RHOMBIC IN PT, MOD DNS / DNS, FOSS IN PT, P / F INTERXLN POR IN PT
DOLO - TAN / CRM, F XLN, SUB-RHOMBIC IN FEW PIECES, MOD DNS / DNS, P / F INTERXLN POR IN PT
4750
RTD 4757'
DRILL TIME SLID UP 6' TO MATCH LOGS
DRILL TIME SLID UP 6' TO MATCH LOGS

CEMENT TREATMENT REPORT

Customer:	Indian Oil Company Inc	Well:	Warren 5	Ticket:	wp 3118
City, State:	Medicine Lodge Kansas	County:	Barber .Kansas	Date:	7/22/2022
Field Rep:	Anthony Farrar	S-T-R:	35-30s-12w	Service:	Production Casing

Downhole Information	
Hole Size:	7 7/8 in
Hole Depth:	4757 ft
Casing Size:	5 1/2 in
Casing Depth:	4753 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	
Tool Depth:	ft
Displacement:	112\ bbls

Calculated Slurry - Lead	
Blend:	H-Long
Weight:	15.0 ppg
Water / Sx:	6.0 gal / sx
Yield:	1.42 ft^3 / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0.0 bbls
Excess:	35%
Total Slurry:	44.0 bbls
Total Sacks:	175 sx

Calculated Slurry - Tail	
Blend:	H- Plug
Weight:	13.7 ppg
Water / Sx:	6.9 gal / sx
Yield:	1.43 ft^3 / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	12.0 bbls
Total Sacks:	50 sx

TIME	RATE	PSI	STAGE BBLs	TOTAL BBLs	REMARKS
			-	-	on location job and safety
				-	spot trucks and rig up
				-	
				-	turbolizers...2,4,6,8,11,12,13,14,15,16 basket 10
				-	
3:00 PM				-	start casing in the hole
6:15 PM				-	casing on bottom and circulate
				-	
7:05 PM				-	start flush
	4.5	200.0	5.0	5.0	fresh water
	4.5	200.0	12.0	17.0	mud flush
	4.5	200.0	5.0		fresh water
7:18 PM	2.0	-	12.0		plug rat hole 30 sacks and mouse hole 20 sacks
7:30 PM					start cement
	5.0	150.0	44.0		mix 175 sacks cement
7:45 PM					cement in and shut down
					wash pump and lines
					release plug
7:48 PM					start displacement
	6.5	250.0	20.0		
	6.5	280.0	40.0		
	6.5	270.0	60.0		
	6.5	350.0	80.0		
	6.0	800.0	100.0		
	3.0	800.0	112.0		
8:15 PM					plug down,,,,,plug did hold took pressure from 800 psi to 1600 psi

	CREW	UNIT
Cementer:	M Brungardt	916
Pump Operator:	R Osborn	523/522
Bulk #1:	J Trevino	526/533
Bulk #2:		

SUMMARY		
Average Rate	Average Pressure	Total Fluid
5.0 bpm	318 psi	490 bbls

ftv: 15-2021/01/25
mplv: 302-2022/07/21

CEMENT TREATMENT REPORT

Customer:	Indian oil	Well:	Warren #5	Ticket:	wp 3074
City, State:	Medicine lodge kansas	County:	Barber.Kansas	Date:	7/15/2022
Field Rep:	Gale thompson	S-T-R:	35-30s-12w	Service:	Conductor

Downhole Information	
Hole Size:	17 1/2 in
Hole Depth:	71 ft
Casing Size:	13 3/8 in
Casing Depth:	55 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	
Tool Depth:	ft
Displacement:	3.8 bbls

Calculated Slurry - Lead	
Blend:	A 2% cc
Weight:	15.6 ppg
Water / Sx:	5.2 gal / sx
Yield:	1.20 ft^3 / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0.0 bbls
Excess:	15%
Total Slurry:	28.8 bbls
Total Sacks:	135 sx

Calculated Slurry - Tail	
Blend:	
Weight:	ppg
Water / Sx:	gal / sx
Yield:	ft^3 / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	0.0 bbls
Total Sacks:	0 sx

TIME	RATE	PSI	STAGE BBLs	TOTAL BBLs	REMARKS
5:45 PM			-	-	on location job and safety
6:00 PM				-	spot trucks and rig up
				-	
7:00 PM				-	start casing in the hole
7:55 PM				-	casing on bottom and circulate
				-	
8:00 PM				-	start cement
	3.5	100.0	5.0	5.0	fresh water
	3.5	100.0	28.0	33.0	mix 135 sacks cement
8:10 PM				33.0	cement in and shut down
8:12 PM				33.0	start displacement
8:15 PM	2.0	100.0	3.8		displacement in and shut in the well
					cement did circulate

CREW		UNIT
Cementer:	M Brungardt	916
Pump Operator:	A Clifton	179/522
Bulk #1:	D Martinez	526/533
Bulk #2:		

SUMMARY		
Average Rate	Average Pressure	Total Fluid
3.0 bpm	100 psi	37 bbls

CEMENT TREATMENT REPORT

Customer:	Indian Oil Inc	Well:	Warren 5	Ticket:	wp 3085
City, State:	Medicine Lodge Kansas	County:	Barber.Kansas	Date:	7/16/2022
Field Rep:	Gale Thompson	S-T-R:	35-30s-12w	Service:	Surface

Downhole Information	
Hole Size:	12 1/4 in
Hole Depth:	235 ft
Casing Size:	8 5/8 in
Casing Depth:	224 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	
Tool Depth:	ft
Displacement:	13.0 bbls

Calculated Slurry - Lead	
Blend:	60/40 2 & 3
Weight:	14.8 ppg
Water / Sx:	5.2 gal / sx
Yield:	1.21 ft^3 / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0.0 bbls
Excess:	130%
Total Slurry:	43.1 bbls
Total Sacks:	200 sx

Calculated Slurry - Tail	
Blend:	
Weight:	ppg
Water / Sx:	gal / sx
Yield:	ft^3 / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	0.0 bbls
Total Sacks:	0 sx

TIME	RATE	PSI	STAGE BBLs	TOTAL BBLs	REMARKS
8:00 AM			-	-	on location job and safety
				-	
11:05 AM				-	start casing in the hole
12:20 PM				-	casing on bottom and circulate
				-	
12:25 PM				-	start cement
	3.0	200.0	5.0	5.0	fresh water
	6.0	200.0	43.0	48.0	mix 200 sacks cement
12:35 PM				48.0	cement in and shut down
12:36 PM				-	start displacement
	3.5	100.0	13.0		displacement in
					circulated 5bbls to the pit

CREW		UNIT
Cementer:	M Brungardt	916
Pump Operator:	M Mattel	179/521
Bulk #1:	F Contreass	526/533
Bulk #2:		

SUMMARY		
Average Rate	Average Pressure	Total Fluid
4.2 bpm	167 psi	61 bbls

DRILL STEM TEST REPORT

Indian Oil Co

PO Box 209
Medicine Lodge, KS 67104

ATTN: Aaron Young

35-30S-12W Barber

Warren 5-35

Job Ticket: 68188 **DST#: 1**

Test Start: 2022.07.20 @ 12:01:00

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:21:17
Time Test Ended: 23:18:47

Test Type: Conventional Bottom Hole (Initial)
Tester: Leal Cason
Unit No: 72

Interval: 4216.00 ft (KB) To 4308.00 ft (KB) (TVD)
Total Depth: 4308.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

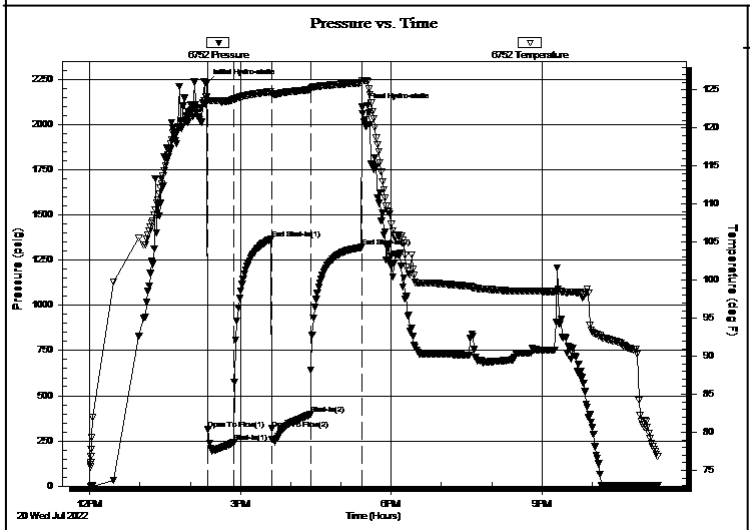
Reference Elevations: 1641.00 ft (KB)
1629.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 6752 **Inside**

Press@RunDepth: 397.80 psig @ 4295.00 ft (KB)
Start Date: 2022.07.20 End Date: 2022.07.20
Start Time: 12:01:01 End Time: 23:18:47

Capacity: psig
Last Calib.: 2022.07.20
Time On Btm: 2022.07.20 @ 14:19:47
Time Off Btm: 2022.07.20 @ 17:25:32

TEST COMMENT: IF: Strong Blow , BOB in 10 seconds, GTS in 5 minutes, Gauged & Sampled
ISI: Blow Back Built to 69.11 inches
FF: Strong Blow , BOB & GTS Immediate, Gauged Gas
FSI: Blow Back Built to 142.11 inches



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2224.34	124.04	Initial Hydro-static
2	316.37	123.64	Open To Flow (1)
32	240.40	123.73	Shut-In(1)
77	1365.63	124.72	End Shut-In(1)
78	317.27	124.46	Open To Flow (2)
124	397.80	125.07	Shut-In(2)
185	1320.28	125.99	End Shut-In(2)
186	2094.76	126.20	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	2784 GIP	0.00
121.00	GWOCM 20%G 5%W 25%O 50%M	0.60
1305.00	Gsy Oil 40%G 60%O	18.31

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	29.53	64.72
Last Gas Rate	0.25	50.55	95.68
Max. Gas Rate	0.13	61.64	26.43

DRILL STEM TEST REPORT

Indian Oil Co

PO Box 209
Medicine Lodge, KS 67104

ATTN: Aaron Young

35-30S-12W Barber

Warren 5-35

Job Ticket: 68188 **DST#: 1**

Test Start: 2022.07.20 @ 12:01:00

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:21:17
Time Test Ended: 23:18:47

Test Type: Conventional Bottom Hole (Initial)
Tester: Leal Cason
Unit No: 72

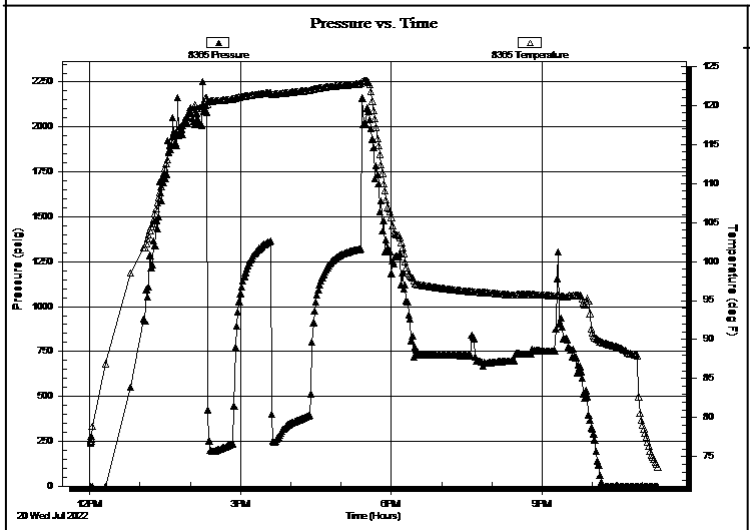
Interval: 4216.00 ft (KB) To 4308.00 ft (KB) (TVD)
Total Depth: 4308.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1641.00 ft (KB)
1629.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8365 **Outside**
Press@RunDepth: psig @ 4295.00 ft (KB)
Start Date: 2022.07.20 End Date: 2022.07.20
Start Time: 12:01:01 End Time: 23:18:47

Capacity: psig
Last Calib.: 2022.07.20
Time On Btm:
Time Off Btm:

TEST COMMENT: IF: Strong Blow , BOB in 10 seconds, GTS in 5 minutes, Gauged & Sampled
ISI: Blow Back Built to 69.11 inches
FF: Strong Blow , BOB & GTS Immediate, Gauged Gas
FSI: Blow Back Built to 142.11 inches



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
0.00	2784 GIP	0.00
121.00	GWOCM 20%G 5%W 25%O 50%M	0.60
1305.00	Gsy Oil 40%G 60%O	18.31

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	29.53	64.72
Last Gas Rate	0.25	50.55	95.68
Max. Gas Rate	0.13	61.64	26.43

DRILL STEM TEST REPORT

FLUID SUMMARY

Indian Oil Co

PO Box 209
Medicine Lodge, KS 67104

ATTN: Aaron Young

35-30S-12W Barber

Warren 5-35

Job Ticket: 68188 **DST#: 1**

Test Start: 2022.07.20 @ 12:01:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	31.3 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	50.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.59 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	6000.00 ppm				
Filter Cake:	0.02 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	2784 GIP	0.000
121.00	GWOCM 20%G 5%W 25%O 50%M	0.595
1305.00	Gsy Oil 40%G 60%O	18.306

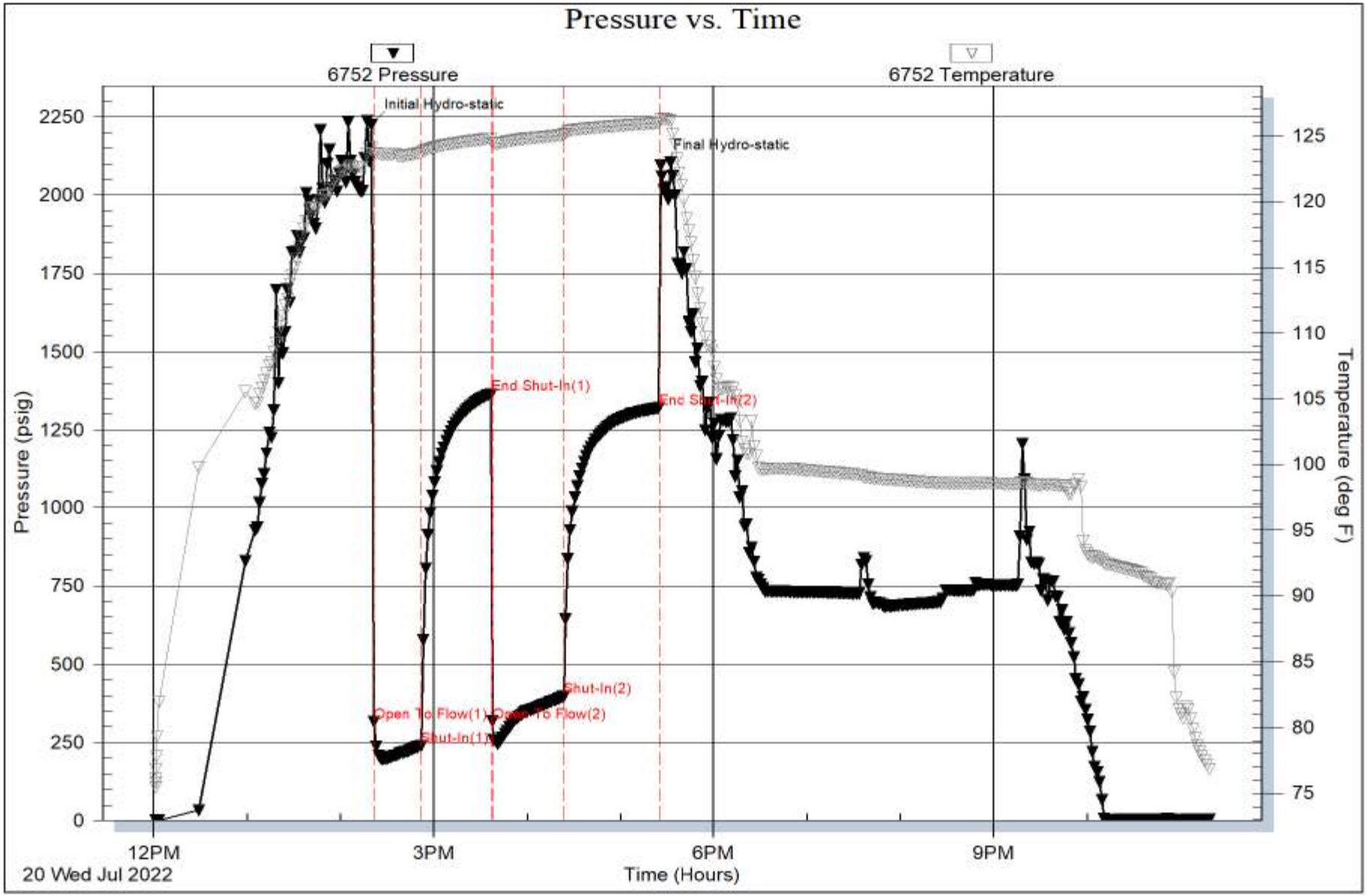
Total Length: 1426.00 ft Total Volume: 18.901 bbl

Num Fluid Samples: 0 Num Gas Bombs: 1 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: Gravity w as 35.1 @ 98 degrees

Serial #: 6752 **Inside** Indian Oil Co Warren 5-35 DST Test Number: 1



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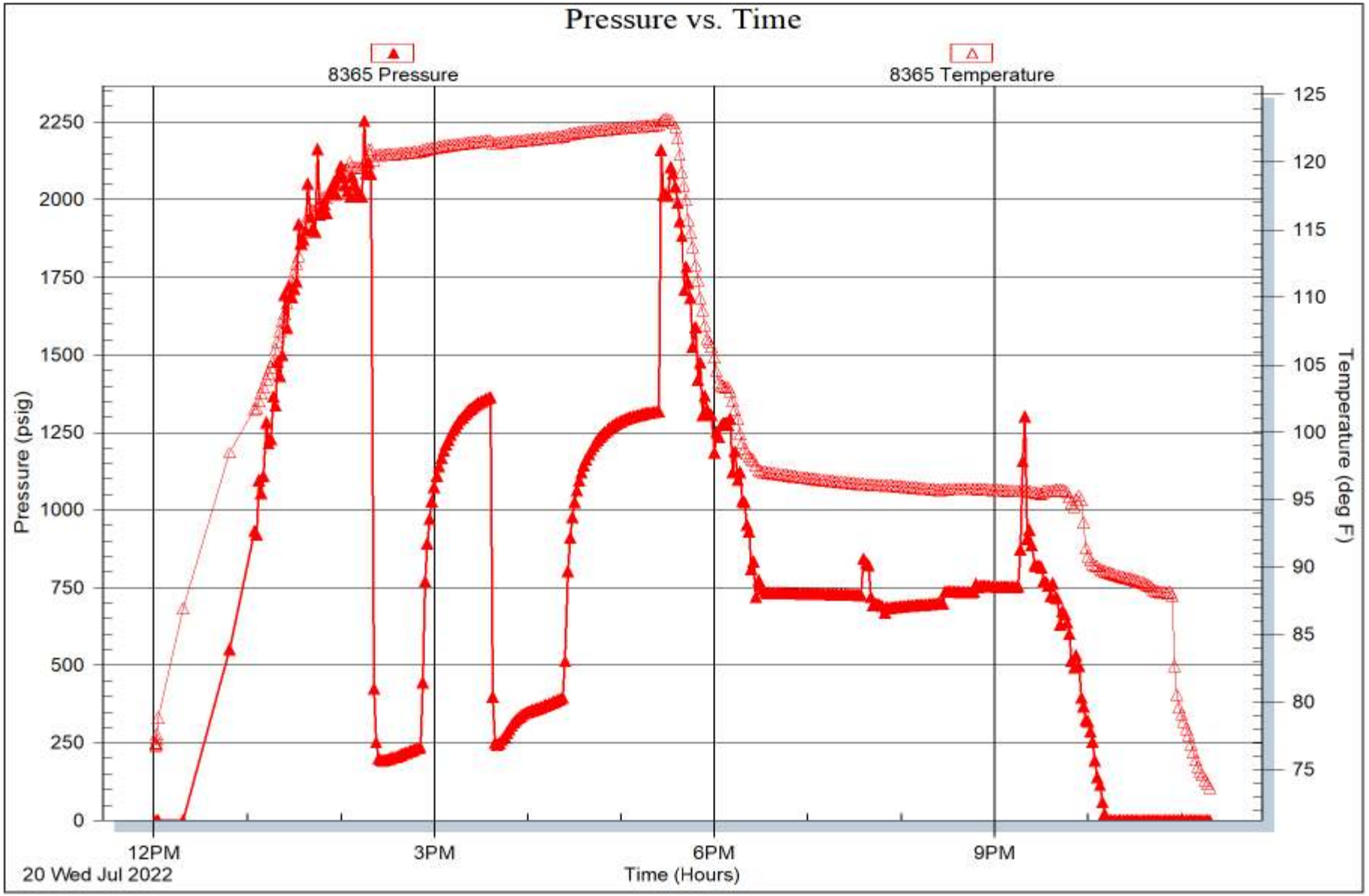
Serial #: 8365 **Outside** Indian Oil Co Warren 5-35 DST Test Number: 1



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