

Form	ACO1 - Well Completion
Operator	Indian Oil Co., Inc.
Well Name	BUFFALO 1
Doc ID	1706575

All Electric Logs Run

DIL
LAS
MEL
PE
SONIC

Form	ACO1 - Well Completion
Operator	Indian Oil Co., Inc.
Well Name	BUFFALO 1
Doc ID	1706575

Perforations

Shots Per Foot	Perforation Top	Perforation Bottom	BridgePlugType	BridgePlugSet At	Material Record
	4556	4564	CIBP Cast Iron Bridge Plug	4520	
2	4283	4294			FRAC 14000 BBL, 140000 LB SAND
2	4299	4304			
1	4307	4309			
1	4314	4315			
1	4319	4320			

Form	ACO1 - Well Completion
Operator	Indian Oil Co., Inc.
Well Name	BUFFALO 1
Doc ID	1706575

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	9.625	23.	351	60/40/2 POZ A	300	CaCl, celloflake
Production	7.875	8.625	15.50	4753	H-LONG	175	celloflake



DRILL STEM TEST REPORT

Prepared For: **Indian Oil**

308 S Main St
Medicine Lodge, KS 67104

ATTN: Aaron Young

Buffalo #1

26-30S-12W Barber,KS

Start Date: 2022.12.30 @ 02:10:24

End Date: 2022.12.30 @ 12:10:43

Job Ticket #: 69329 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2023.01.03 @ 09:28:37

Indian Oil
26-30S-12W Barber,KS
Buffalo #1
DST # 1
Miss.
2022.12.30



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Indian Oil

308 S Main St
Medicine Lodge, KS 67104

ATTN: Aaron Young

26-30S-12W Barber,KS

Buffalo #1

Job Ticket: 69329

DST#: 1

Test Start: 2022.12.30 @ 02:10:24

GENERAL INFORMATION:

Formation: **Miss.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:13:34

Time Test Ended: 12:10:43

Test Type: Conventional Bottom Hole (Initial)

Tester: Eric Burgess

Unit No: 80

Interval: 4220.00 ft (KB) To 4288.00 ft (KB) (TVD)

Reference Elevations: 1685.00 ft (KB)

Total Depth: 4288.00 ft (KB) (TVD)

1676.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

Serial #: 8369 Outside

Press@RunDepth: 89.64 psig @ 4223.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.12.30

End Date:

2022.12.30

Last Calib.:

2022.12.30

Start Time: 02:10:25

End Time:

12:10:43

Time On Btm:

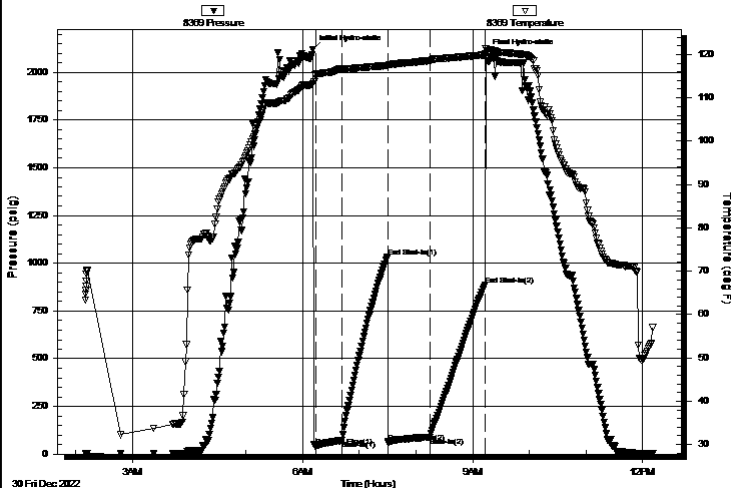
2022.12.30 @ 06:11:04

Time Off Btm:

2022.12.30 @ 09:13:44

TEST COMMENT: IF:Strong Building Blow built 210.70" (30)
IS:No Blow Back. (45)
FF:Strong Building Blow built 170.28" (45)
FS:No Blow Back. (60)

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2120.30	113.23	Initial Hydro-static
3	42.56	115.32	Open To Flow (1)
31	71.76	116.75	Shut-In(1)
79	1031.27	117.47	End Shut-In(1)
80	62.44	117.25	Open To Flow (2)
124	89.64	118.58	Shut-In(2)
182	887.19	119.89	End Shut-In(2)
183	2099.77	121.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	GOCM 20% G 30% O 50% M	0.15
30.00	GV SOCM 30% G 5% O 65% M	0.15
20.00	GV SOCM 5% G 5% O 90% M	0.10
0.00	4091' GIP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Indian Oil

308 S Main St
Medicine Lodge, KS 67104

ATTN: Aaron Young

26-30S-12W Barber,KS

Buffalo #1

Job Ticket: 69329

DST#: 1

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Tester: Eric Burgess

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Total Depth: 4288.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1685.00 ft (KB)

1676.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 8846 Inside

Press@RunDepth: psig @ 4223.00 ft (KB)

Start Date: 2022.12.30

End Date:

2022.12.30

Start Time: 02:10:44

End Time:

12:11:23

Capacity: 8000.00 psig

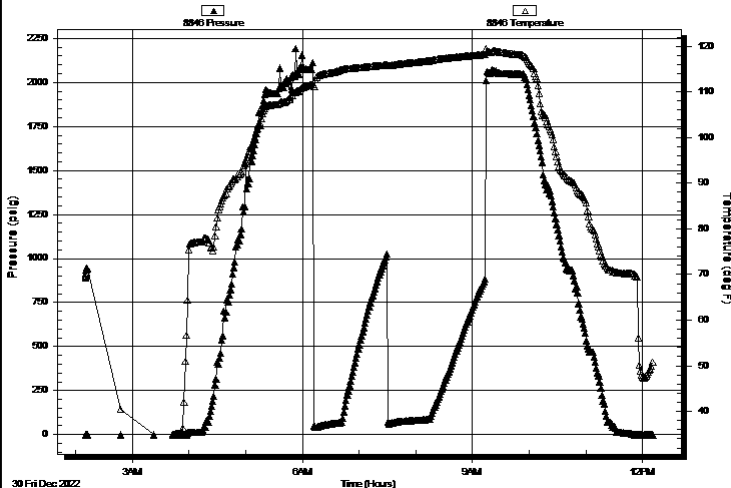
Last Calib.: 2022.12.30

Time On Btm:

Time Off Btm:

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FF:Strong Building Blow built 170.28" (45)
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Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
30.00	GOCM 20% G 30% O 50% M	0.15
30.00	GV SOCM 30% G 5% O 65% M	0.15
20.00	GV SOCM 5% G 5% O 90% M	0.10
0.00	4091' GIP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Indian Oil

26-30S-12W Barber,KS

308 S Main St
Medicine Lodge, KS 67104

Buffalo #1

Job Ticket: 69329

DST#: 1

ATTN: Aaron Young

Test Start: 2022.12.30 @ 02:10:24

Tool Information

Drill Pipe:	Length: 4091.00 ft	Diameter: 3.88 inches	Volume: 59.83 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer:	24000.00 lb
Drill Collar:	Length: 118.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose:	50000.00 lb
		Total Volume:	- bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial	58000.00 lb
Depth to Top Packer:	4220.00 ft			Final	58000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	68.00 ft				
Tool Length:	99.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4190.00	
Shut In Tool	5.00			4195.00	
Hydraulic tool	5.00			4200.00	
Em Tool	3.00			4203.00	
Jars	5.00			4208.00	
Safety Joint	3.00			4211.00	
Packer	4.00			4215.00	31.00 Bottom Of Top Packer
Packer	5.00			4220.00	
Stubb	1.00			4221.00	
Perforations	1.00			4222.00	
Change Over Sub	1.00			4223.00	
Recorder	0.00	8369	Outside	4223.00	
Recorder	0.00	8846	Inside	4223.00	
Blank Spacing	31.00			4254.00	
Change Over Sub	1.00			4255.00	
Perforations	30.00			4285.00	
Bullnose	3.00			4288.00	68.00 Bottom Packers & Anchor
Total Tool Length:	99.00				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Indian Oil

26-30S-12W Barber,KS

308 S Main St
Medicine Lodge, KS 67104

Buffalo #1

Job Ticket: 69329

DST#: 1

ATTN: Aaron Young

Test Start: 2022.12.30 @ 02:10:24

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 59.00 sec/qt

Water Loss: 8.78 in³

Resistivity: ohm.m

Salinity: 3000.00 ppm

Filter Cake: 0.20 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	GOCM 20%G 30%O 50%M	0.148
30.00	GVSOCM 30%G 5%O 65%M	0.148
20.00	GVSOCM 5%G 5%O 90%M	0.098
0.00	4091' GIP	0.000

Total Length: 80.00 ft

Total Volume: 0.394 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

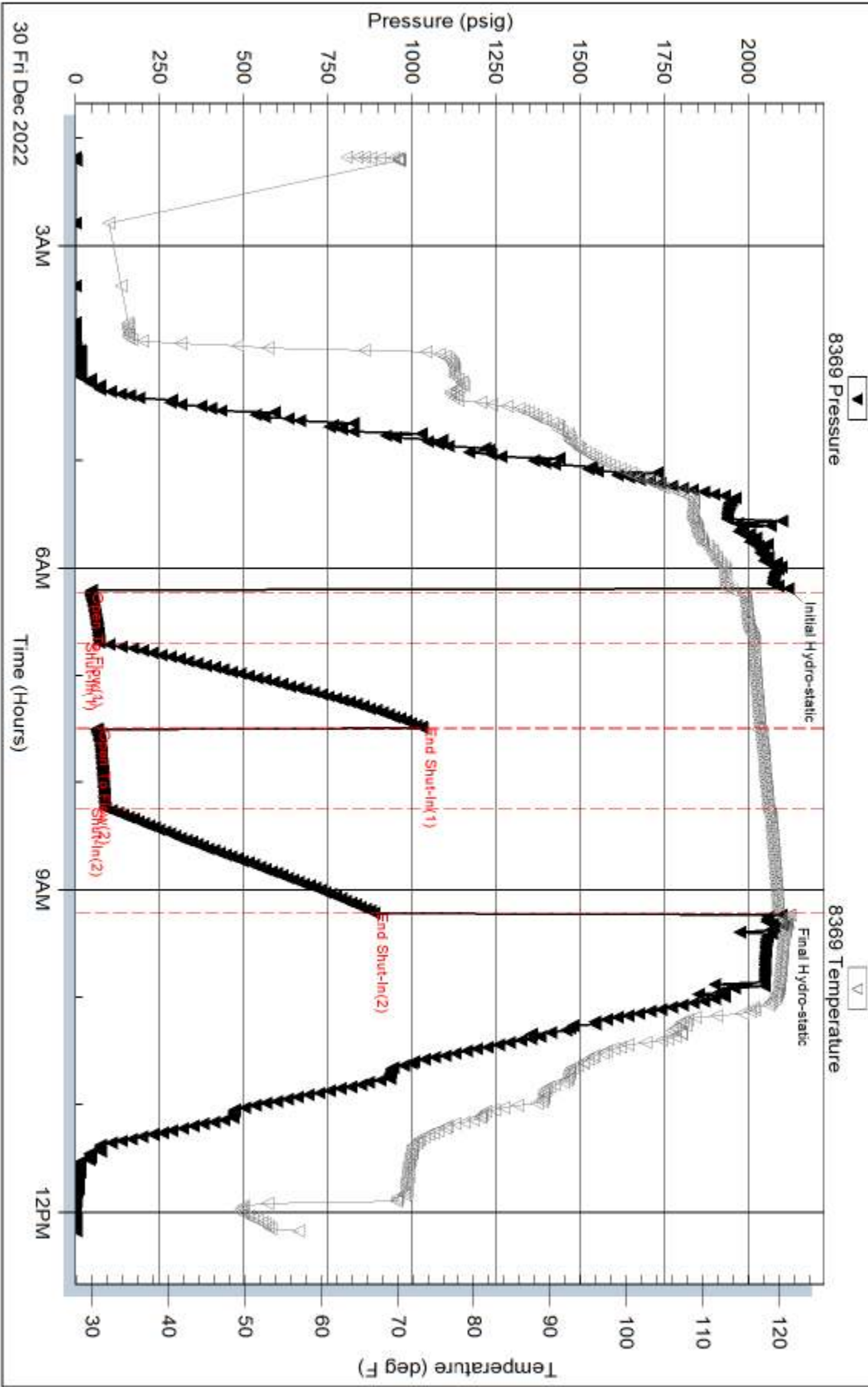
Serial #: 8369

Outside Indian Oil

Buffalo #1

DST Test Number: 1

Pressure vs. Time

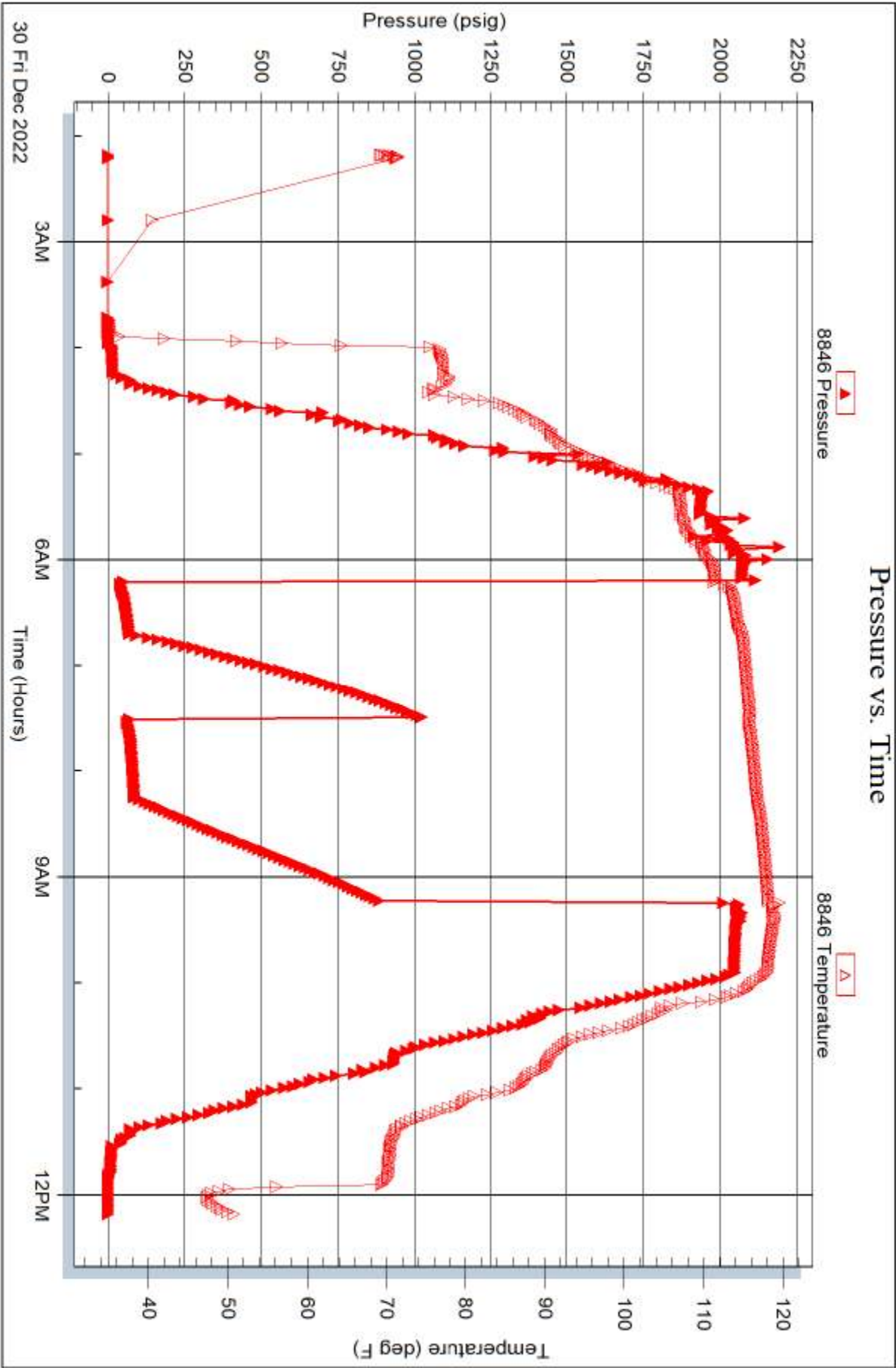


Serial #: 8846

Inside Indian Oil

Buffalo #1

DST Test Number: 1





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **69329**

Well Name & No. Buffalo #1 Test No. 1 Date 12/31/22
 Company Indian Oil Elevation 1685 KB 1676 GL
 Address 308 S Main St Medicine Lodge, KS 67104
 Co. Rep / Geo. Aaron Young Rig Fossil 3
 Location: Sec. 26 Twp 30S Rge. 12W Co. Barber State KS

Interval Tested 4270' - 4288' Zone Tested MISS
 Anchor Length 68' Drill Pipe Run 4091 Mud Wt. 9.1
 Top Packer Depth 4262 Drill Collars Run 118 Vis 56
 Bottom Packer Depth 4266 Wt. Pipe Run Ø WL 8.8
 Total Depth 4288' Chlorides 3,000 ppm System LCM 2.5

Blow Description FF: Strong building blow built 210.70" (30)
ISI: no blow back. (45)
FF: Strong building blow built 170.28" (45)
FST: no blow back. (60)

Rec	Feet of	%gas	%oil	%water	%mud
<u>0</u>	<u>Feet of 4091' GIP</u>	<u>100</u>			
<u>20</u>	<u>Feet of GUSOCM</u>	<u>5</u>	<u>5</u>	<u>%water</u>	<u>90</u> %mud
<u>30</u>	<u>Feet of GUSOCM</u>	<u>30</u>	<u>5</u>	<u>%water</u>	<u>65</u> %mud
<u>30</u>	<u>Feet of GOCM</u>	<u>20</u>	<u>30</u>	<u>%water</u>	<u>50</u> %mud
<u>Rec</u>	<u>Feet of</u>	<u>%gas</u>	<u>%oil</u>	<u>%water</u>	<u>%mud</u>
<u>Rec Total 80'</u>	<u>BHT 121</u>	<u>Gravity</u>	<u>API RW</u>	<u>@</u>	<u>F Chlorides</u> ppm

(A) Initial Hydrostatic 2120
 (B) First Initial Flow 43
 (C) First Final Flow 72
 (D) Initial Shut-In 1031
 (E) Second Initial Flow 62
 (F) Second Final Flow 90
 (G) Final Shut-In 887
 (H) Final Hydrostatic 2091

Initial Open 30
 Initial Shut-In 45
 Final Flow 45
 Final Shut-In 60

☒ Test 1950
☒ Jars 300
☒ Safety Joint
☐ Circ Sub
☐ Hourly Standby
☒ Mileage 60 105 +105
☐ Sampler
☐ Straddle
☐ Shale Packer
☐ Extra Packer
☐ Extra Recorder
☒ Day Standby 1d 7.75h
☐ Accessibility
 Sub Total 2460

T-On Location 0045
 T-Started 0210
 T-Open 0609
 T-Pulled 0910
 T-Out 1210
 Comments loaded tools 12/31 20:00
☒ EM Tool -175
☐ Ruined Shale Packer
☒ Ruined Packer 460
☐ Extra Copies
 Sub Total 800 +460 -175
 Total 3545
 MP/DST Disc't

Approved By _____

Our Representative JD

Triobite 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.



HURRICANE SERVICES INC

Remit To: Hurricane Services, Inc.
250 N. Water, Suite 200
Wichita, KS 67202
316-303-9515

Customer:

INDIAN OIL CO INC
PO BOX 209
MEDICINE LODGE, KS 67104-0209

Invoice Date: 1/1/2023
Invoice #: 0365651
Lease Name: Buffalo
Well #: 1 (New)
County: Barber, Ks
Job Number: WP3784
District: Pratt

Completion

Date/Description	HRS/QTY	Rate	Total
Longstring	0.000	0.000	0.00
H-Long	175.000	35.000	6,125.00
H-Plug	50.000	14.000	700.00
Cello Flake	45.000	1.750	78.75
5 1/2" Floatshoe-Flapper AFU	1.000	375.000	375.00
5 1/2" LD Plug & Baffle	1.000	350.000	350.00
Cement baskets 5 1/2"	1.000	300.000	300.00
5 1/2" Turbolizers	8.000	125.000	1,000.00
Mud flush	500.000	1.000	500.00
Liquid KCL Substitute 2	1.000	20.000	20.00
Light Eq Mileage	25.000	2.000	50.00
Heavy Eq Mileage	50.000	4.000	200.00
Ton Mileage	259.000	1.500	388.50
Cement Blending & Mixing	225.000	1.400	315.00
Depth Charge 4001'-5000'	1.000	2,500.000	2,500.00
Cement Data Acquisition	1.000	250.000	250.00
Cement Plug Container	1.000	250.000	250.00
Service Supervisor	1.000	275.000	275.00

Total 13,677.25

TERMS: Net 30 days. Interest may be charged on past due invoice at rate of 1 ½% per month or maximum allowed by applicable state or federal laws. HSI has right to revoke any discounts applied in arriving at net invoice price if invoice is past due. If revoked, full invoice price without discount plus additional sales tax, as applicable, is due immediately and subject to interest charges. Customer agrees to pay all collection costs directly or indirectly incurred by HSI in the event HSI engages a third party to pursue collection of past due invoice.

SALES TAX: Services performed on oil, gas and water wells in Kansas are subject to sales tax, with certain exceptions. HSI relies on the well information provided by the customer in identifying whether the services performed on wells qualify for exemption.

WE APPRECIATE YOUR BUSINESS!



TERMS: Cash in advance unless Hurricane Services Inc. (HSI) has approved credit prior to sale. Credit terms of sale for approved accounts are total invoice due on or before the 30th day from the date of invoice. Past due accounts shall pay interest on the balance past due at the rate of 1 1/2% per month or the maximum allowable by applicable state or federal laws. In the event it is necessary to employ an agency and/or attorney to affect the collection, Customer hereby agrees to pay all fees directly or indirectly incurred for such collection. In the event that Customer's account with HSI becomes delinquent, HSI has the right to revoke any discounts previously applied in arriving at net invoice price. Upon revocation, the full invoice price without discount is immediately due and subject to collection. Prices quoted are estimates only and are good for 30 days from the date of issue. Pricing does not include federal, state, or local taxes, or royalties and stated price adjustments. Actual charges may vary depending upon time, equipment, and material ultimately required to perform these services. Any discount is based on 30 days net payment terms or cash. **DISCLAIMER NOTICE:** Technical data is presented in good faith, but no warranty is stated or implied. HSI assumes no liability for advice or recommendations made concerning the results from the use of any product or service. The information presented is a best estimate of the actual results that may be achieved and should be used by comparison purposes and HSI makes no guarantee of future production performance. Customer represents and warrants that well and all associated equipment in acceptable condition to receive services by HSI. Likewise, the customer guarantees proper operational care of all customer owned equipment and property while HSI is on location performing services. The authorization below acknowledges the receipt and acceptance of all terms/conditions stated above, and Hurricane has been provided accurate well information in determining taxable services.

ftv: 15-2021/01/25
mplv: 339-2022/10/05



CEMENT TREATMENT REPORT

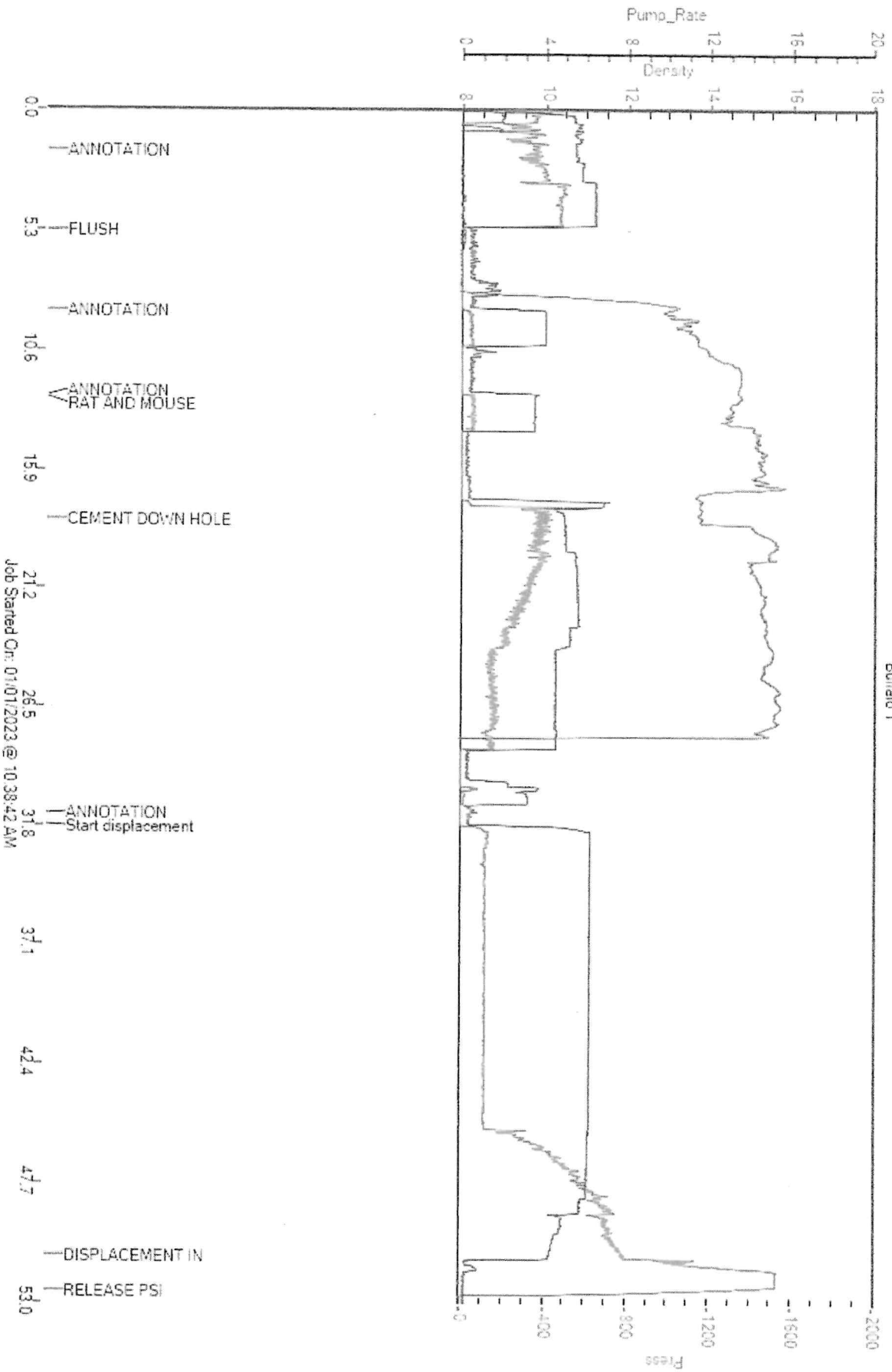
Customer:	Indian Oil Company	Well:	Buffalo 1	Ticket:	wp 3784
City, State:	Medicine Lodge Kansas	County:	Barber.Kansas	Date:	1/1/2023
Field Rep:	Anthony Farrar	S-T-R:	28-30s-12w	Service:	Longstring

Downhole Information		Calculated Slurry - Lead		Calculated Slurry - Tail	
Hole Size:	7 7/8 in	Blend:	H-Long	Blend:	H-Plug
Hole Depth:	4796 ft	Weight:	15.0 ppg	Weight:	13.7 ppg
Casing Size:	4 1/2 in	Water / Sx:	6.0 gal / sx	Water / Sx:	6.9 gal / sx
Casing Depth:	4765 ft	Yield:	1.42 ft ³ / sx	Yield:	1.43 ft ³ / sx
Tubing / Liner:	in	Annular Bbls / Ft.:	bbs / ft.	Annular Bbls / Ft.:	bbs / ft.
Depth:	ft	Depth:	ft	Depth:	ft
Tool / Packer:		Annular Volume:	0.0 bbls	Annular Volume:	0 bbls
Tool Depth:	ft	Excess:		Excess:	
Displacement:	115.0 bbls	Total Slurry:	44.2 bbls	Total Slurry:	12.7 bbls
		Total Sacks:	175 sx	Total Sacks:	50 sx

TIME	RATE	PSI	BBLs	TOTAL BBLs	REMARKS
5:30 AM			-	-	on location job and safety
5:45 AM			-	-	spot trucks and rig up
			-	-	turbolizers 2,5,8,9,10,11,12
			-	-	basket 13
			-	-	
9:45 AM			-	-	start casing in the hole
			-	-	casing on bottom and circulate
			-	-	
10:45 AM			-	-	start flush
	6.0	300.0	12.0	12.0	mudflush
	6.0	300.0	20.0	32.0	kcl water
10:50 AM					flush in
10:55 AM	20.0		12.7		plug rat hole 30 sacks ,,,mouse hole 20 sacks
11:00 AM					start cement down hole
	6.5	400.0	44.0		mix 175 sacks cement
11:10 AM					cement in and shut down
					wash pump and lines and release the plug
11:15 AM					start displacement
	6.0	120.0	20.0		
	6.0	120.0	40.0		
	6.0	120.0	60.0		
	6.0	450.0	90.0		
	4.0	650.0	100.0		
11:35 AM	4.0	800.0	115.0		plug down took pressure from 800 to 1500
					release pressure and plug did hold

CREW		UNIT	SUMMARY		
Cementer:	M Brungardt	916	Average Rate	Average Pressure	Total Fluid
Pump Operator:	K Lesely	179/521	7.1 bpm	362 psi	514 bbls
Bulk #1:	K Julian	182/534			
Bulk #2:					

Indian Oil Buffalo 1





HURRICANE SERVICES INC

Remit To: Hurricane Services, Inc.
250 N. Water, Suite 200
Wichita, KS 67202
316-303-9515

Customer:

INDIAN OIL CO INC
PO BOX 209
MEDICINE LODGE, KS 67104-0209

Invoice Date: 12/20/2022
Invoice #: 0365642
Lease Name: Buffalo
Well #: 1 (New)
County: Barber, Ks
Job Number: WP3757
District: Pratt

Drilling

Date/Description	HRS/QTY	Rate	Total
Surface	0.000	0.000	0.00
Cement Pozmix 60/40	300.000	15.000	4,500.00
Calcium Chloride	774.000	0.750	580.50
Cello Flake	75.000	1.750	131.25
Light Eq Mileage	25.000	2.000	50.00
Heavy Eq Mileage	50.000	4.000	200.00
Ton Mileage	323.000	1.500	484.50
Cement Blending & Mixing	300.000	1.400	420.00
Depth Charge 0'-500'	1.000	1,000.000	1,000.00
Cement Data Acquisition	1.000	250.000	250.00
Service Supervisor	1.000	275.000	275.00

Total 7,891.25

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mplv: 339-2022/10/05

CEMENT TREATMENT REPORT

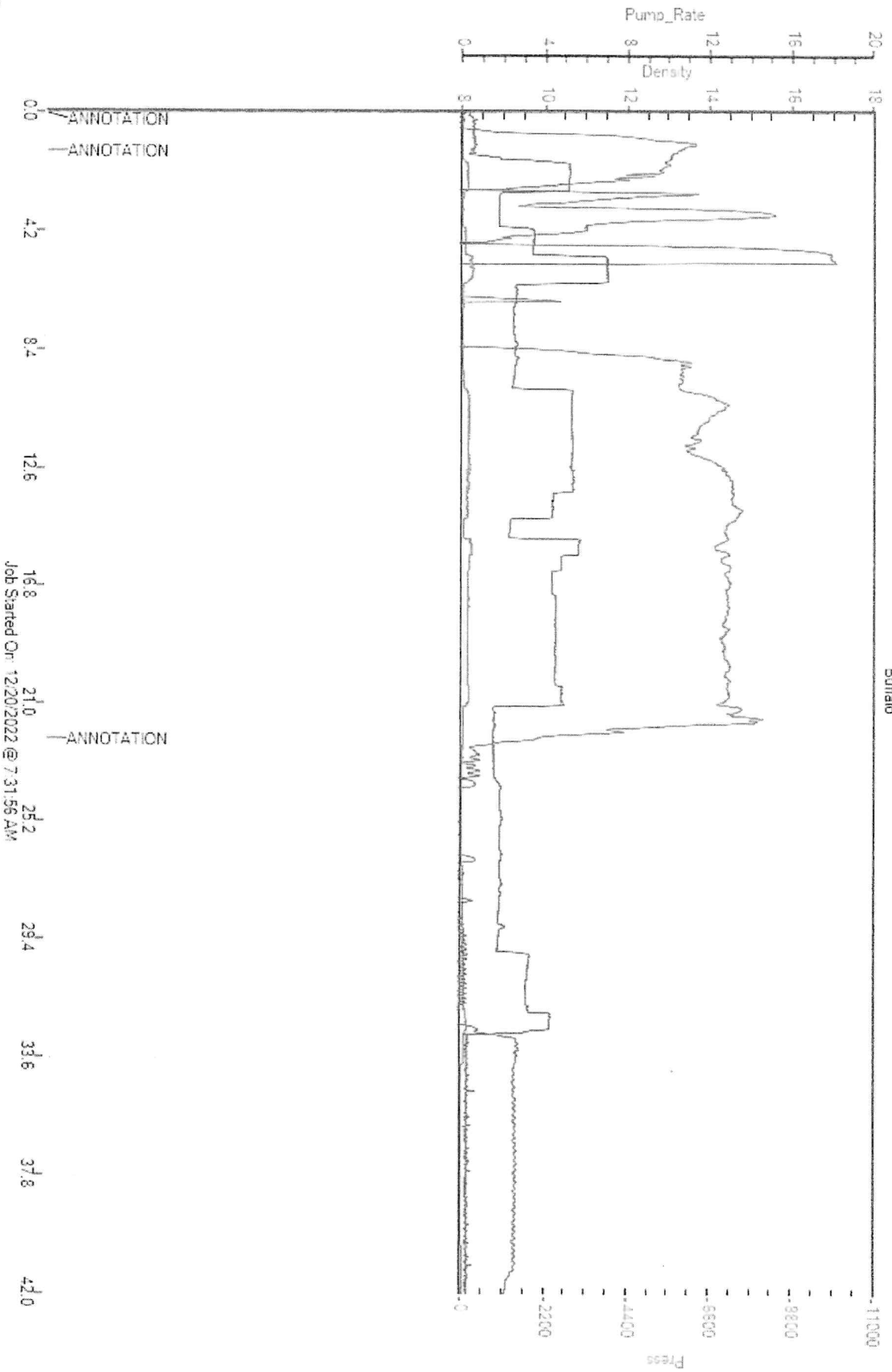
Customer:	Indian Oil Co.Inc	Well:	Buffalo 1	Ticket:	wp 3757
City, State:	Medicine Lodge Kansas	County:	Barber.Kansas	Date:	12/20/2022
Field Rep:	Gale Thompson	S-T-R:	26-30s-12w	Service:	Surface

Downhole Information		Calculated Slurry - Lead		Calculated Slurry - Tail	
Hole Size:	12 1/4 in	Blend:	60/40 2&3	Blend:	
Hole Depth:	363 ft	Weight:	14.8 ppg	Weight:	ppg
Casing Size:	8 5/8 in	Water / Sx:	5.2 gal / sx	Water / Sx:	gal / sx
Casing Depth:	351 ft	Yield:	1.21 ft ³ / sx	Yield:	ft ³ / sx
Tubing / Liner:	in	Annular Bbls / Ft.:	bbs / ft.	Annular Bbls / Ft.:	bbs / ft.
Depth:	ft	Depth:	ft	Depth:	ft
Tool / Packer:		Annular Volume:	0.0 bbls	Annular Volume:	0 bbls
Tool Depth:	ft	Excess:		Excess:	
Displacement:	21.0 bbls	Total Slurry:	64.6 bbls	Total Slurry:	0.0 bbls
		Total Sacks:	300 sx	Total Sacks:	0 sx
STAGE	TOTAL				

[illegible]

CREW		UNIT	SUMMARY		
Cementer:	M Brungardt	916	Average Rate	Average Pressure	Total Fluid
Pump Operator:	A Clifton	179/522	3.3 bpm	200 psi	91 bbls
Bulk #1:	K Julian	526/256			
Bulk #2:					

Indian Oil
Buffalo



Geologic Report
Aaron L. Young

Drilling Time and Sample Log

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

Well Name: Buffalo #1
API: 15-007-24463
Location: Section 26 - T30S - R12W
License Number: 31938
Spud Date: 12/19/2022
Surface Coordinates: 669' FSL and 1060' FEL
Approx. SW - NW - SE - SE
Region: Barber Co., KS
Drilling Completed: 12/31/2022
Bottom Hole Coordinates:
Ground Elevation (ft): 1673' K.B. Elevation (ft): 1685'
Logged Interval (ft): 4793' To: 4793' Total Depth (ft): 4793'
Formation: Arbuckle
Type of Drilling Fluid: Chemical - MudCo

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

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: 929 W. Douglas Ave
Wichita, Kansas 67213

General Info

CONTRACTOR: Fossil Drilling Rig #3

BIT RECORD:

No.	Size	Make	Jets	Out	Feet	Hours
1	12-1/4	RR	5x13s, 2x14s	363'	363'	4.50
3	7-7/8	MI 616	16-16-16	4793'	4430'	60.25

Surveys: 1080'-1.0, 2065'-.75, 2571'-.25, 3109'-.25, 3617'-.5, 4160'-.5, 4288'-.75, 4793'-.25

GENERAL DRILLING AND PUMP INFORMATION:

Drilling with 12,000-14,000 lbs. on bit and approx 100-110 RPM.
Pumping approx 950-1050 psi at standpipe @ 58 SPM

Daily Status

12/19/22 Spud @ 9:00am, drilled 363'
 12/20/22 Run 8 5/8 surface casing, cem w/ 300sx, circ 10 bbls to pits
 12/21/22 Drain up and wait until after Christmas

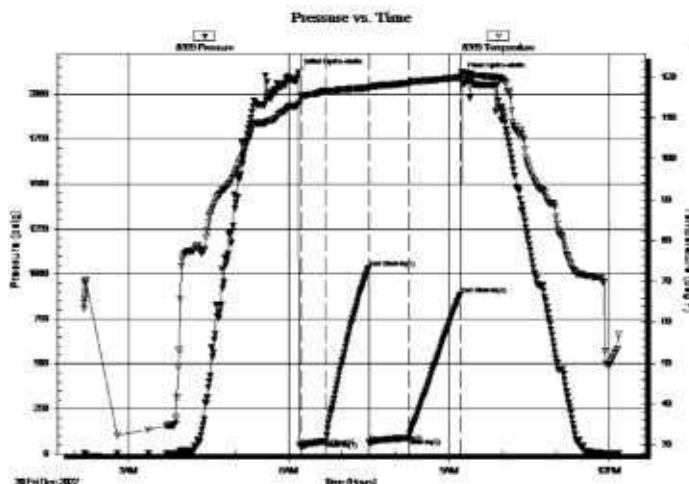
 12/26/22 Preparing to resume drilling.
 12/27/22 Drilling @ 1556'
 12/28/22 CFS @ 2655'
 12/29/22 Drilling @ 3731'
 12/30/22 DST #1, RTD 4288'
 12/31/22 Short trip. CTCH. Logged. LDDP
 01/01/23 Ran 113 jts of new MW-55 5-1/2" 15.50# production casing set at 4777'. Cem w/ 175 sx. 50 sx for rat & mouse holes.

DST #1 Miss 4232' - 4320' (CORRECTED)
 30" - 45" - 45" - 60"

IF: Strong blow, built to 210.70"
 ISI: No blow back
 FF: Strong blow, built to 170.28"
 FSI: No blow back

Rec'd: 30' GOCM (20% G, 30% O, 50% M), 30' GVSOCM (30% G, 5% O, 65% M), 20' GVSOCM (5% G, 5% O, 90% M), 4091' GIP

SIP: 1031-887#
 FP: 43-72#, 62-90#
 HP: 2120-2100#



Log Tops		
Indian Cave	2650	-965
Tarkio	2842	-1157
Howard	3076	-1391
Heebner	3575	-1890
Douglas	3605	-1920
Upper Douglas SS	3633	-1948
Lower Douglas SS	3728	-2043
Brown Lime	3761	-2076
Lansing	3772	-2087
Stark	4101	-2416
Hushpuckney	4140	-2455
Mississippi	4282	-2597
Kinderhook	4374	-2689
Viola	4538	-2853
Simpson Sh	4620	-2935
Simpson Sand	4622	-2937
Arbuckle	4735	-3050

ROCK TYPES

	Anhy
	Bent
	Brec
	Cht
	Clyst
	Coal
	Congl
	Dol

	Gyp
	Igne
	Lmst
	Meta
	Mrlst
	Salt
	Shale
	Schol

	Shgy
	Sltst
	Ss
	Till
	Carb sh
	Dol
	Dtd
	Gry sh

	Sandylms
	Shale
	Sltstn
	Shlyslts
	Slttysh
	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
	Sltty

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

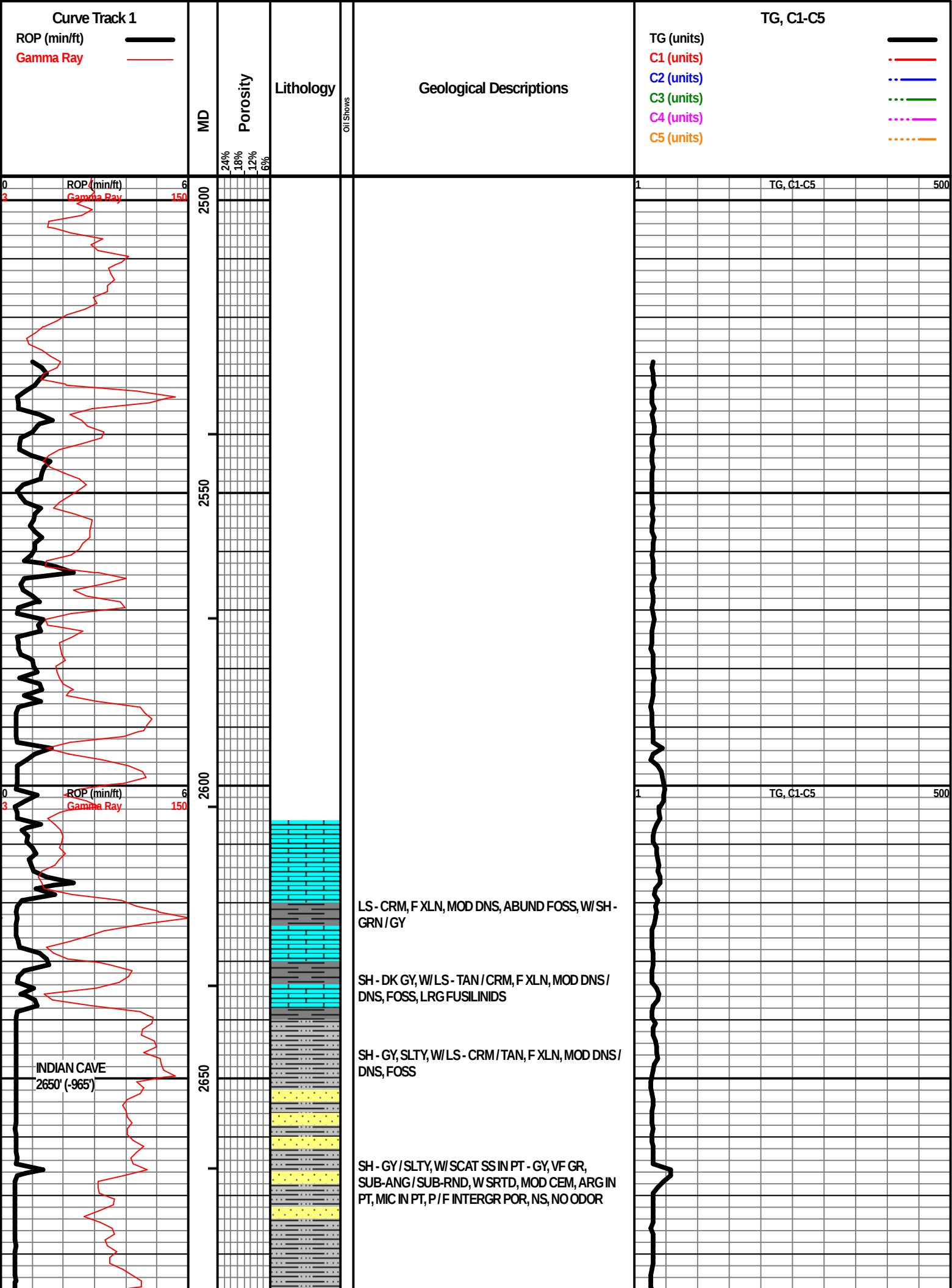
INTERVALS

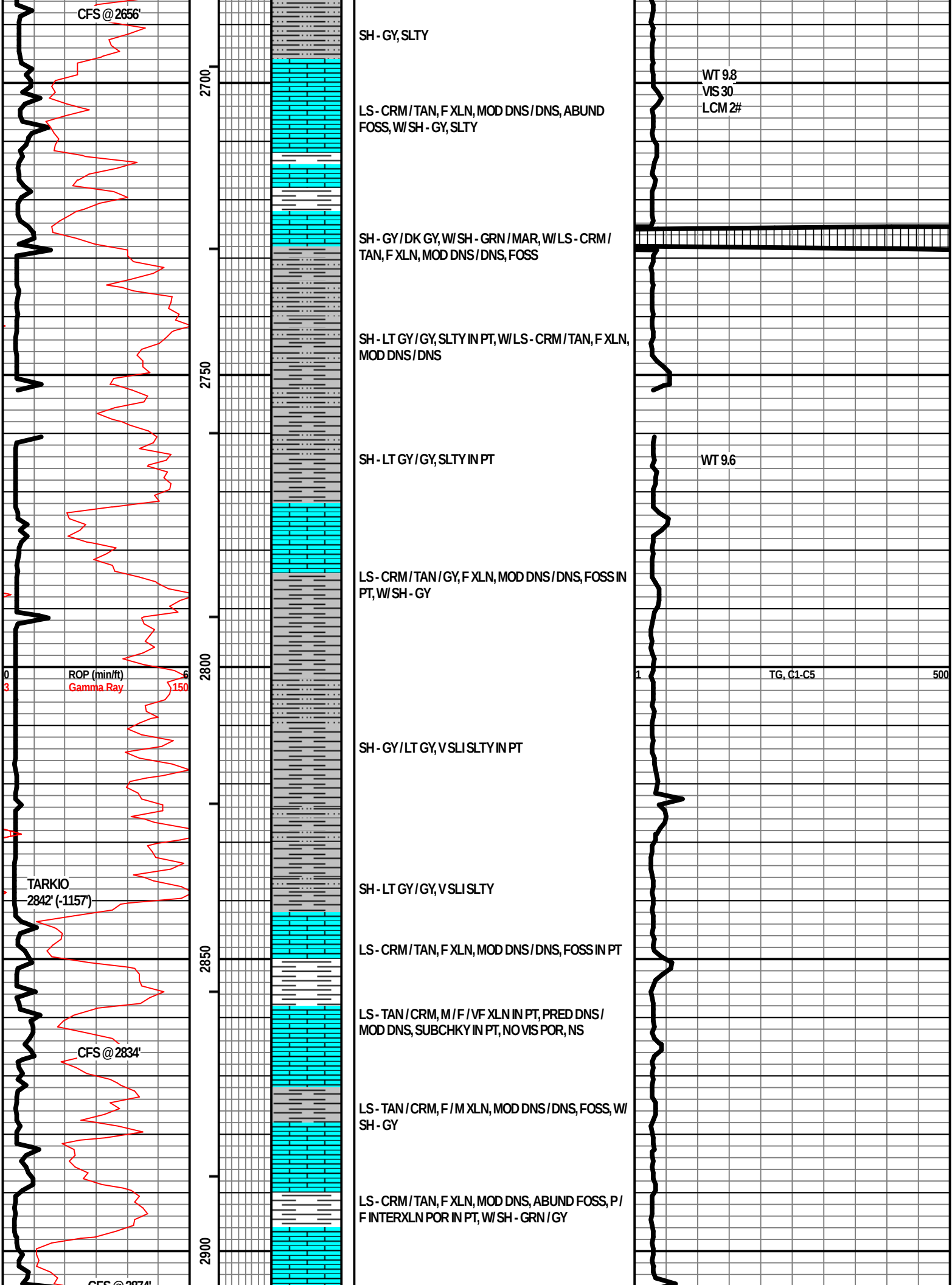
	Core
	Dst

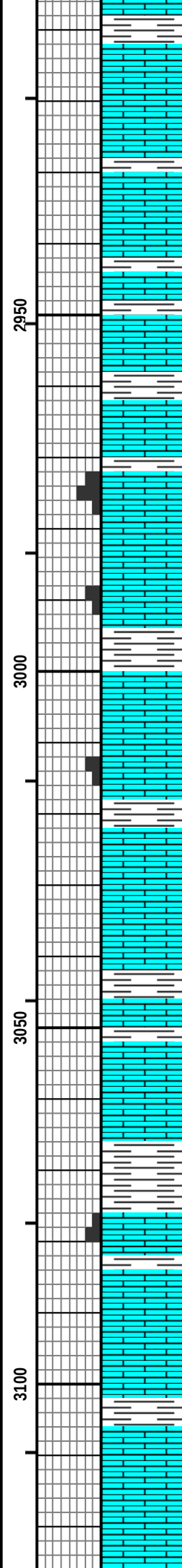
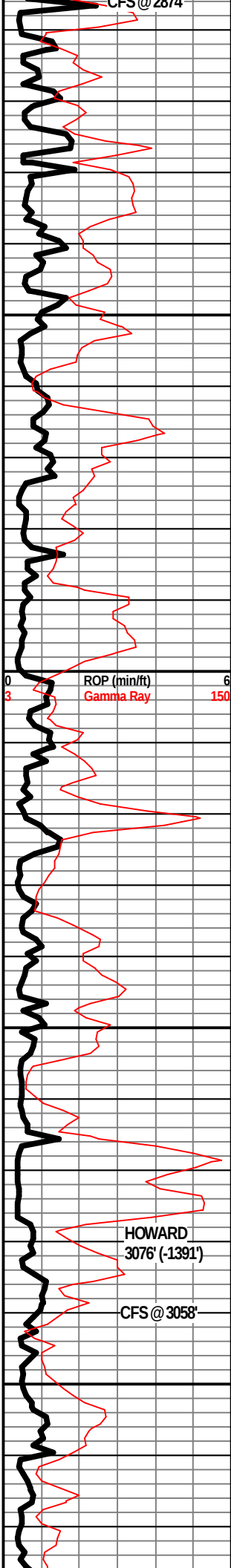
	Dst
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EVENTS

	Rft
	Sidewall
	Conn







LS - TAN / CRM, F XLN, MOD DNS / DNS, FOSS IN PT, W/SH - GY / GRN, RDISH-BRN / MAR IN PT

LS - PRED CRM / TAN IN PT, F / M XLN, MOD DNS / DNS, FOSS, W/SH - GY / GRN / RDISH-BRN

LS - TAN / CRM / GY, F XLN, MOD DNS / DNS, FOSS IN PT, W/SH - GY

LS - CRM / TAN IN PT, M / F XLN, DNS / MOD DNS, FOSS IN PT, W/SH - GY / GRN / MAR

LS - TAN / GY / CRM, F / M XLN, MOD DNS / DNS, FOSS IN PT, W/SH - DK GY / GY / BLK

LS - TAN / CRM / GY, F XLN, MOD DNS, FOSS IN PT, P / F INTERXLN POR IN PT, NS, NO ODOR, W/SH - GRN, RDISH-BRN IN PT

LS - CRM / TAN, F XLN, MOD DNS, P / F INTERXLN POR IN PT, NS, NO ODOR, W/SH - LT GY / LT GRN / RDISH-BRN IN PT

LS - CRM / TAN, F XLN, MOD DNS, FOSS IN PT, W/SH - LT GRN / LT GY / RDISH-BRN IN PT

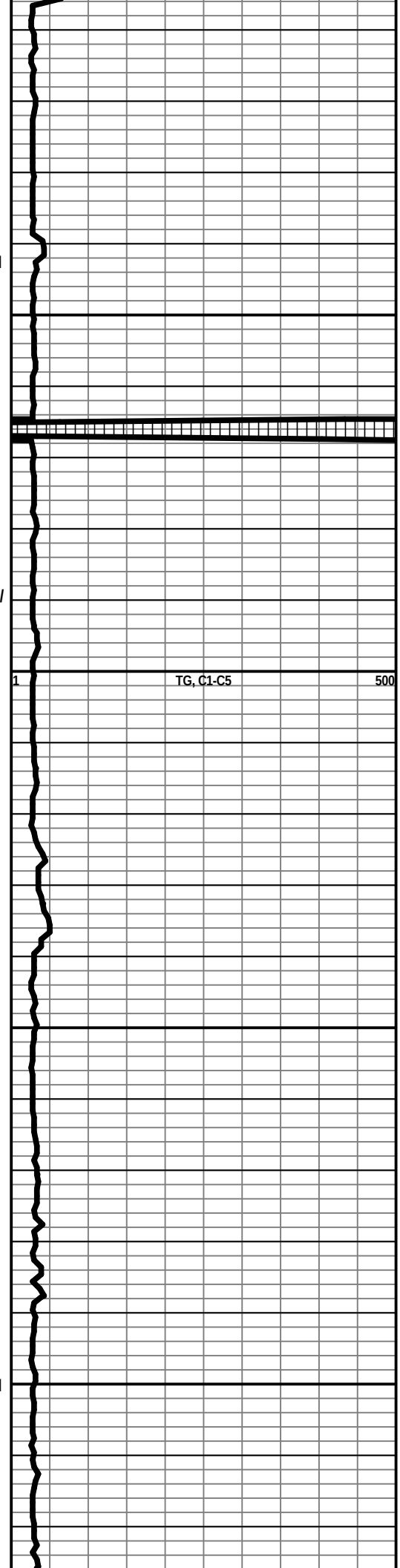
LS - CRM / TAN, F XLN, MOD DNS / DNS, FOSS IN PT, W/SH - GY / GRN / MAR IN PT

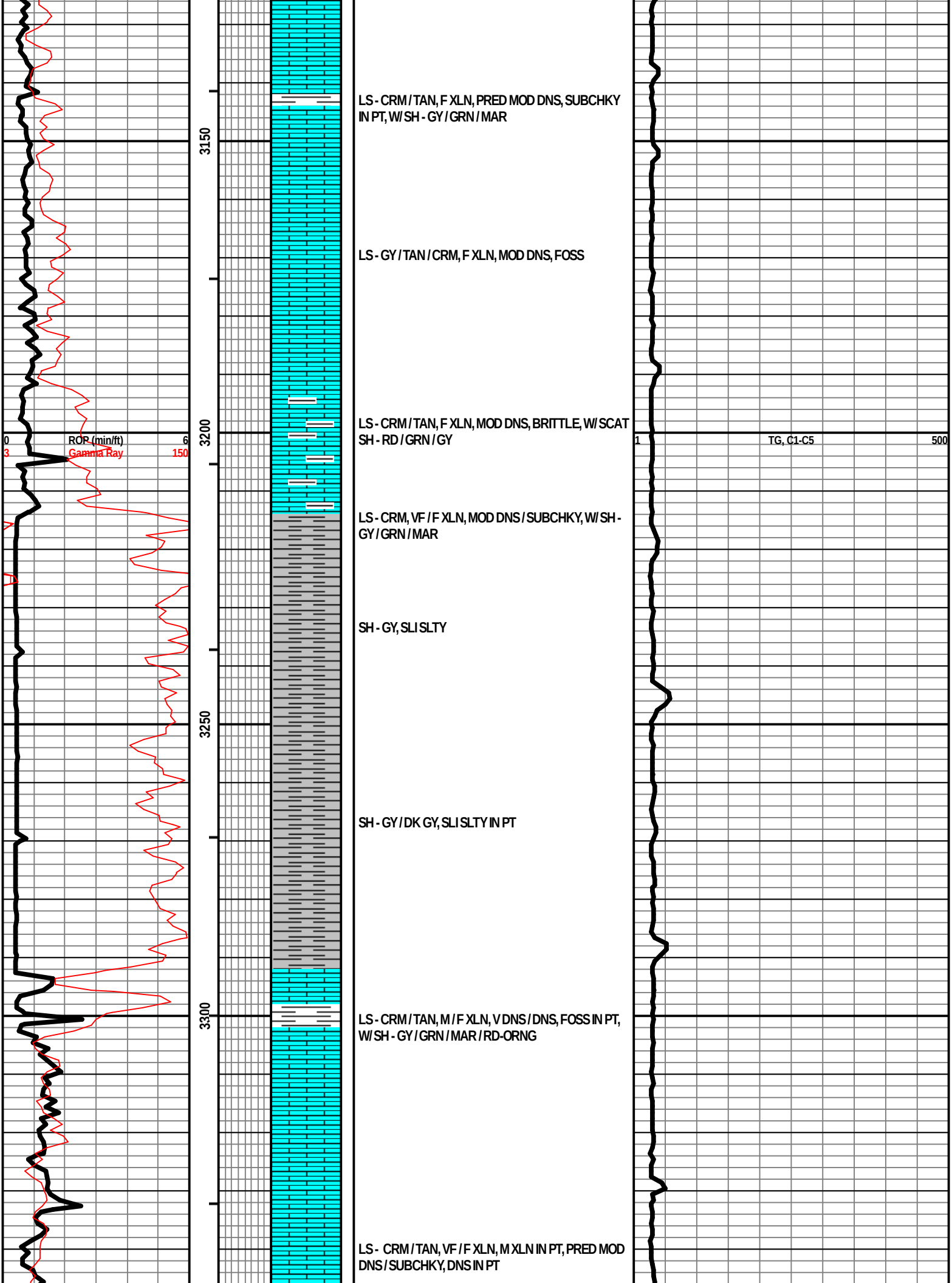
SH - GY / GRN, W/LS - CRM / TAN, F XLN, MOD DNS / DNS, FOSS IN PT

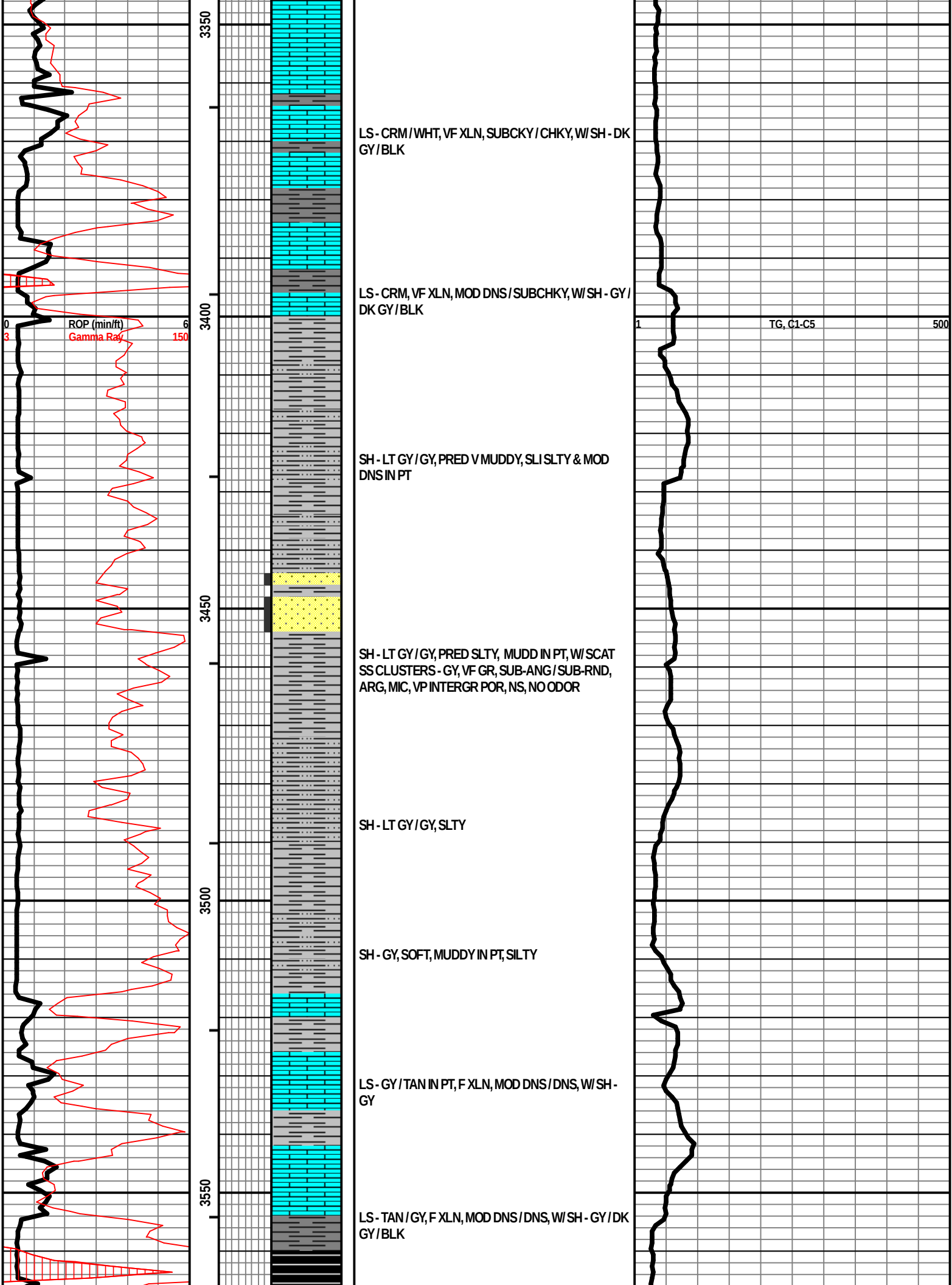
LS - BRN / TAN, F XLN, FOSS, P / F INTERXLN POR, NS, NO ODOR, NO FLUOR, W/SH - PRED TURQ / GRN, GY IN PT, PYRITIC IN PT

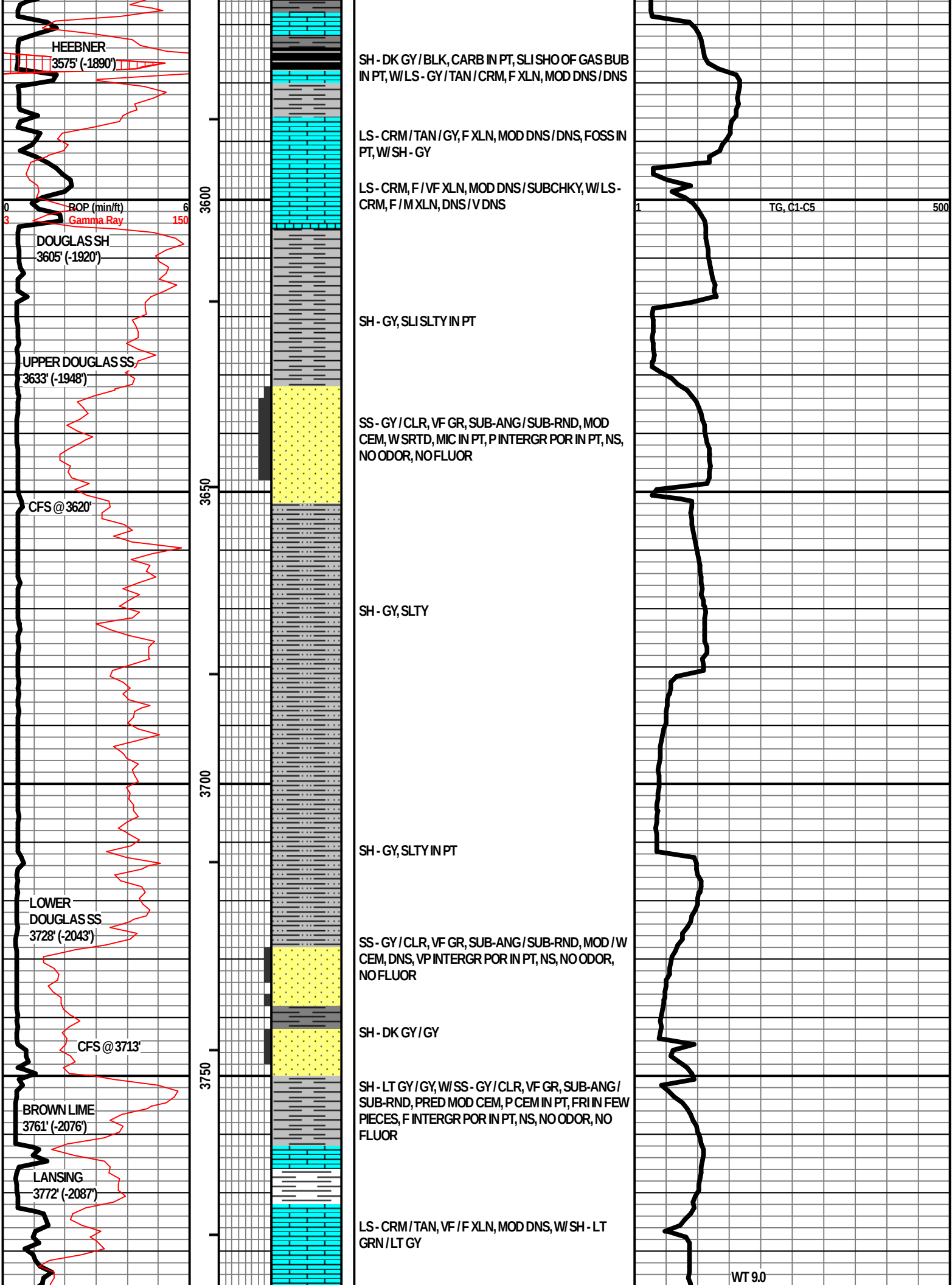
LS - CRM / WHT, F / VF XLN, MOD DNS / SUBCHKY IN PT, W/LS - GY, F / M XLN, DNS / MOD DNS, W/SH - RDISH-BRN / GRN / GY

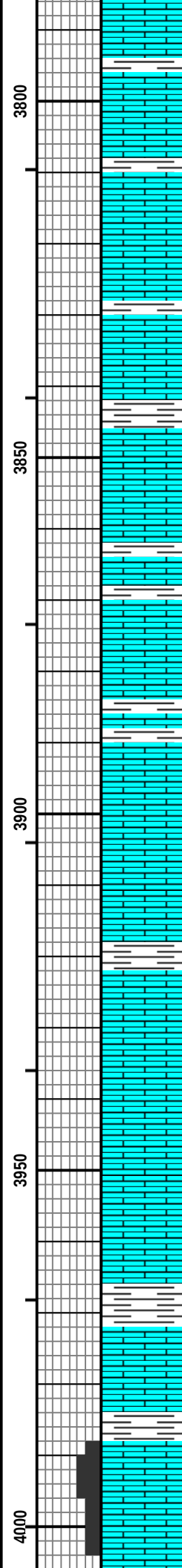
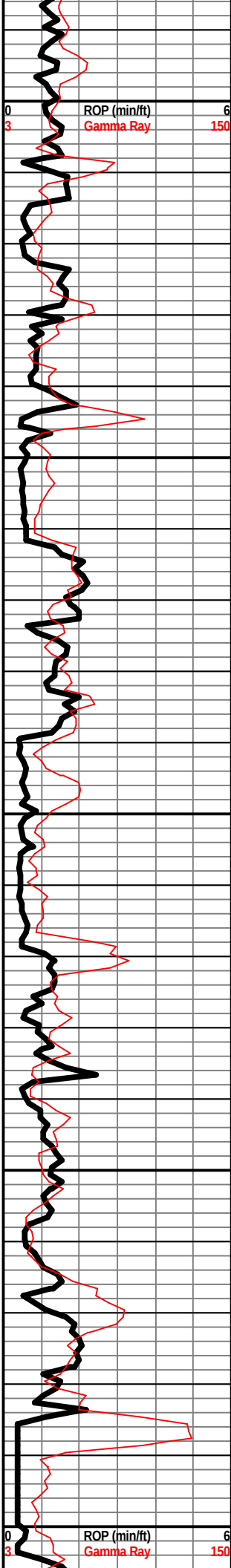
LS - WHT / CRM / TAN, F / VF XLN, MOD DNS / DNS, FOSS IN PT, SUBCHKY IN PT











LS - CRM / TAN, VF / F / M XLN, MOD DNS / DNS, FOSS IN PT

LS - CRM / TAN, F / M XLN, MOD DNS / DNS, FOSS IN PT, W / LS - CRM / WHT, VF XLN, SUBCHKY / CHKY, W / SH - LT GY / LT GRN

LS - CRM / TAN, VF XLN, SUBCHKY / MOD DNS, W / SH - GY

LS - CRM / TAN, F / VF XLN, FOSS, F / G INTERXLN POR, NS, NO ODOR, NO FLUOR, SUBCHKY IN FEW PIECES

LS - CRM / TAN, F / M XLN, MOD DNS / DNS, FOSS IN PT, W / LS - WHT, V CHKY

LS - CRM / TAN, F XLN, MOD DNS / DNS, SUBCHKY IN FEW PIECES, FOSS IN PT, W / SH - GRN / GY

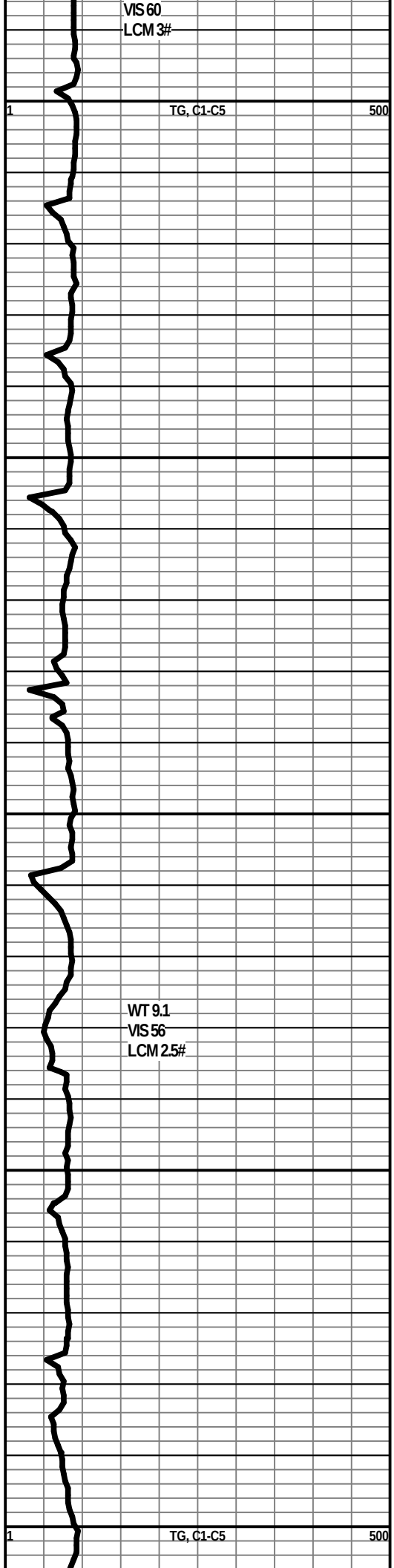
LS - CRM / WHT, VF XLN, SUBCHKY / CHKY, V CHKY IN PT

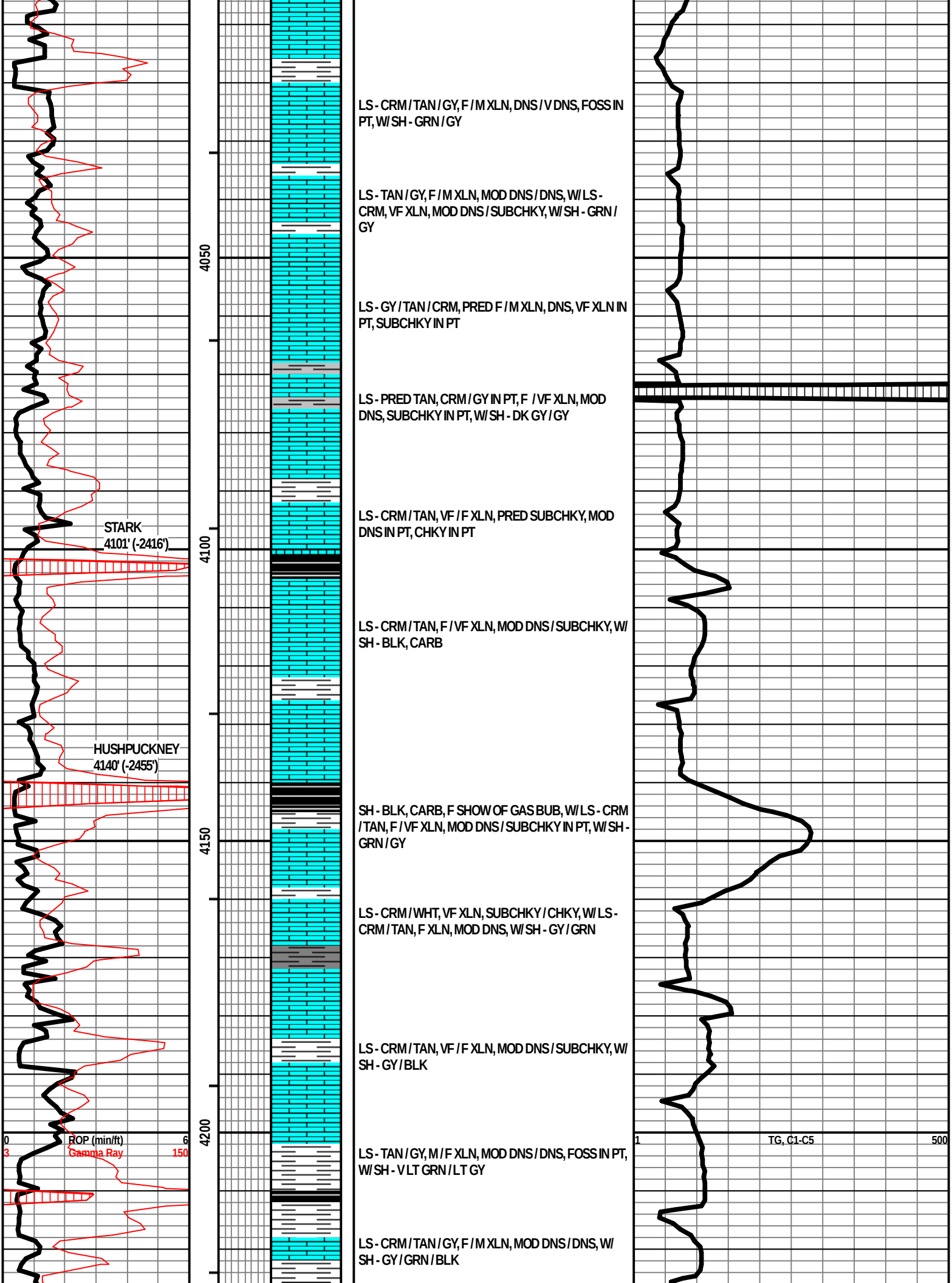
LS - CRM / TAN, F / M XLN, MOD DNS / DNS, W / SH - DK GY / GY

LS - CRM / TAN, F XLN, MOD DNS, FOSS, P INTERXLN POR IN PT, NS, NO ODOR

LS - CRM / TAN, F XLN, MOD DNS, SUBCHKY IN PT, W / SH - LT GY / GY

LS - TAN / BRN, F XLN, OOLITIC, FOSS IN PT, P / F / G OOLMOLDIC POR, NS, NO ODOR, NO FLUOR





LS - CRM / TAN / GY, F / M XLN, DNS / V DNS, FOSS IN PT, W / SH - GRN / GY

LS - TAN / GY, F / M XLN, MOD DNS / DNS, W / LS - CRM, VF XLN, MOD DNS / SUBCHKY, W / SH - GRN / GY

LS - GY / TAN / CRM, PRED F / M XLN, DNS, VF XLN IN PT, SUBCHKY IN PT

LS - PRED TAN, CRM / GY IN PT, F / VF XLN, MOD DNS, SUBCHKY IN PT, W / SH - DK GY / GY

LS - CRM / TAN, VF / F XLN, PRED SUBCHKY, MOD DNS IN PT, CHKY IN PT

LS - CRM / TAN, F / VF XLN, MOD DNS / SUBCHKY, W / SH - BLK, CARB

SH - BLK, CARB, F SHOW OF GAS BUB, W / LS - CRM / TAN, F / VF XLN, MOD DNS / SUBCHKY IN PT, W / SH - GRN / GY

LS - CRM / WHT, VF XLN, SUBCHKY / CHKY, W / LS - CRM / TAN, F XLN, MOD DNS, W / SH - GY / GRN

LS - CRM / TAN, VF / F XLN, MOD DNS / SUBCHKY, W / SH - GY / BLK

LS - TAN / GY, M / F XLN, MOD DNS / DNS, FOSS IN PT, W / SH - VLT GRN / LT GY

LS - CRM / TAN / GY, F / M XLN, MOD DNS / DNS, W / SH - GY / GRN / BLK

