

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

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

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

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

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

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

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

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

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

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

Purchaser: \_\_\_\_\_

Designate Type of Completion:

New Well  Re-Entry  Workover

Oil  WSW  SWD

Gas  DH  EOR

OG  GSW

CM (Coal Bed Methane)

Cathodic  Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

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

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

Deepening  Re-perf.  Conv. to EOR  Conv. to SWD  
 Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or Date Reached TD Completion Date or Recompletion Date

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

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

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

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

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

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

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

Datum:  NAD27  NAD83  WGS84

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

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

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

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

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

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

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

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

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

Location of fluid disposal if hauled offsite:

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

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

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

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: \_\_\_\_\_

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

Wireline Log Received  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

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

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

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

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

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

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

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

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Stelbar Oil Corporation, Inc.
Well Name	CHEYENNE 3-35
Doc ID	1648025

All Electric Logs Run

Dual Induction Log
Compensated Density / Neutron PE Log
Quad Combo Log
Sonic Log
Micro Log

Form	ACO1 - Well Completion
Operator	Stelbar Oil Corporation, Inc.
Well Name	CHEYENNE 3-35
Doc ID	1648025

Tops

Name	Top	Datum
Anhydrite	1559	+1838
Base of Anhydrite	1570	+1827
Heebner	3636	-239
Lansing	3699	-302
Marmaton	4327	-930
Atoka Shale	4890	-1493
Morrow Shale	4993	-1596
Middle Morrow Shale	5130	-1733
Lwr Morrow Marker	5289	-1892
Lwr Morrow Sand	5338	-1941
Lwr Keyes Sand	5440	-2043
Miss - Chester	5457	-2060
Miss - St. Gen	5478	-2081
Miss - St. Louis	5530	-2133
Total Depth	5588	-2191

Form	ACO1 - Well Completion
Operator	Stelbar Oil Corporation, Inc.
Well Name	CHEYENNE 3-35
Doc ID	1648025

Perforations

Shots Per Foot	Perforation Top	Perforation Bottom	BridgePlugType	BridgePlugSet At	Material Record
4	3928	3932			1500 gals 15% NEFE HCL (3928' to 3974')
4	3938	3942			""
4	3948	3952			""
4	3968	3974			""
4	4094	4108			1500 gals 15% NEFE HCL
4	4126	4140			1500 gals 15% NEFE HCL





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Stelbar Oil Corp  
1625 N Waterfront STE 200  
Wichita, Ks 67206  
ATTN: Dave Goldak

**35 30s 41w Stanton Ks**  
**Cheyenne 3-35**  
Job Ticket: 68064 **DST#: 1**  
Test Start: 2022.03.22 @ 03:25:00

## GENERAL INFORMATION:

Formation: **Morrow-Keyes Sandsto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:12:15

Time Test Ended: 19:01:45

Interval: **5302.00 ft (KB) To 5474.00 ft (KB) (TVD)**

Total Depth: 5590.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Straddle (Initial)

Tester: Bradley Walter

Unit No: 78

Reference Elevations: 3397.00 ft (KB)

3386.00 ft (CF)

KB to GR/CF: 11.00 ft

**Serial #: 8874 Outside**

Press@RunDepth: 58.09 psig @ 5303.00 ft (KB)

Start Date: 2022.03.22

End Date:

2022.03.22

Start Time: 03:25:05

End Time:

19:01:45

Capacity: 8000.00 psig

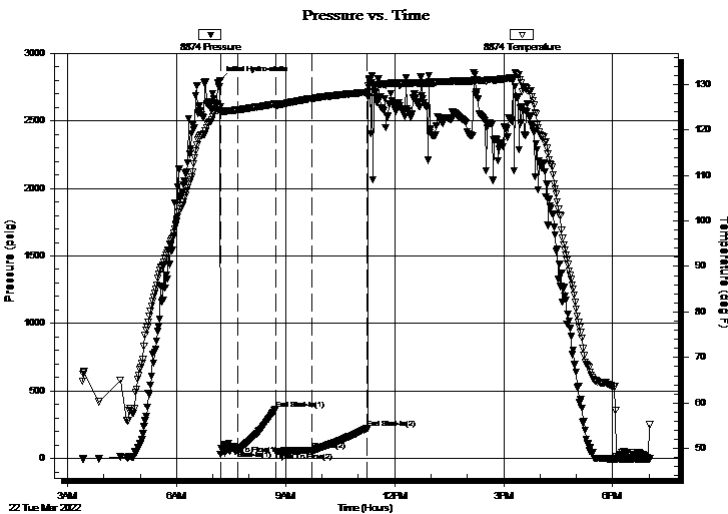
Last Calib.: 2022.03.22

Time On Btm: 2022.03.22 @ 07:12:00

Time Off Btm: 2022.03.22 @ 11:16:30

TEST COMMENT: IF: 1.8" blow  
IS: No return.  
FF: 3.4" blow.  
FS: No return. 30-60-60-90

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2798.56	125.16	Initial Hydro-static
1	29.06	124.07	Open To Flow (1)
29	59.50	124.42	Shut-In(1)
92	364.66	125.70	End Shut-In(1)
92	48.00	125.57	Open To Flow (2)
151	58.09	126.90	Shut-In(2)
243	222.89	128.30	End Shut-In(2)
245	2682.92	129.77	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
90.00	mud 100m	0.44

## Gas Rates

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









**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Stelbar Oil Corp

**35 30s 41w Stanton Ks**

1625 N Waterfront STE 200  
Wichita, Ks 67206

**Cheyenne 3-35**

Job Ticket: 68064

**DST#: 1**

ATTN: Dave Goldak

Test Start: 2022.03.22 @ 03:25:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 71.93 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 600.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	mud 100m	0.443

Total Length: 90.00 ft      Total Volume: 0.443 bbl

Num Fluid Samples: 0

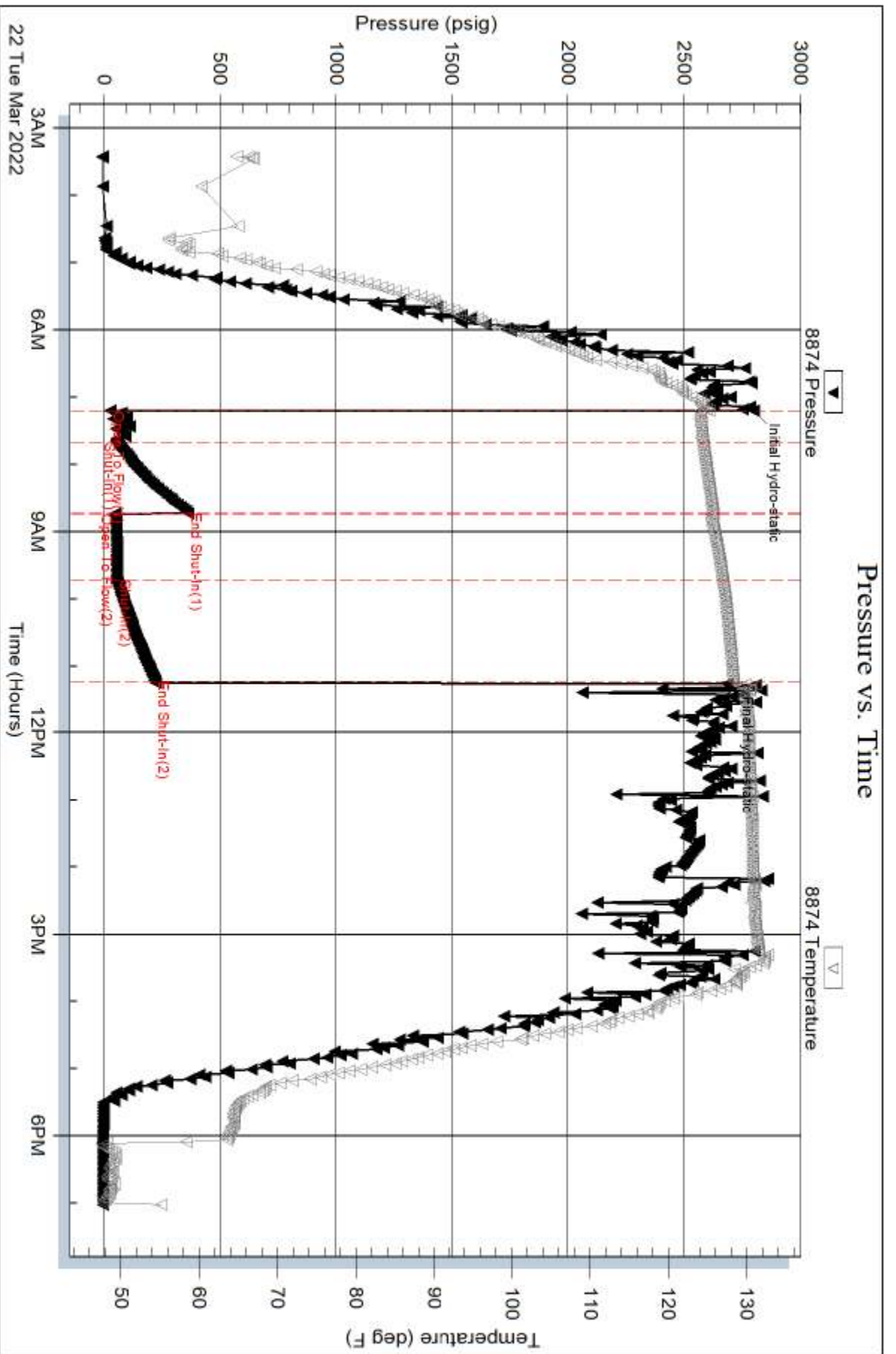
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler mud 100m  
2000ml

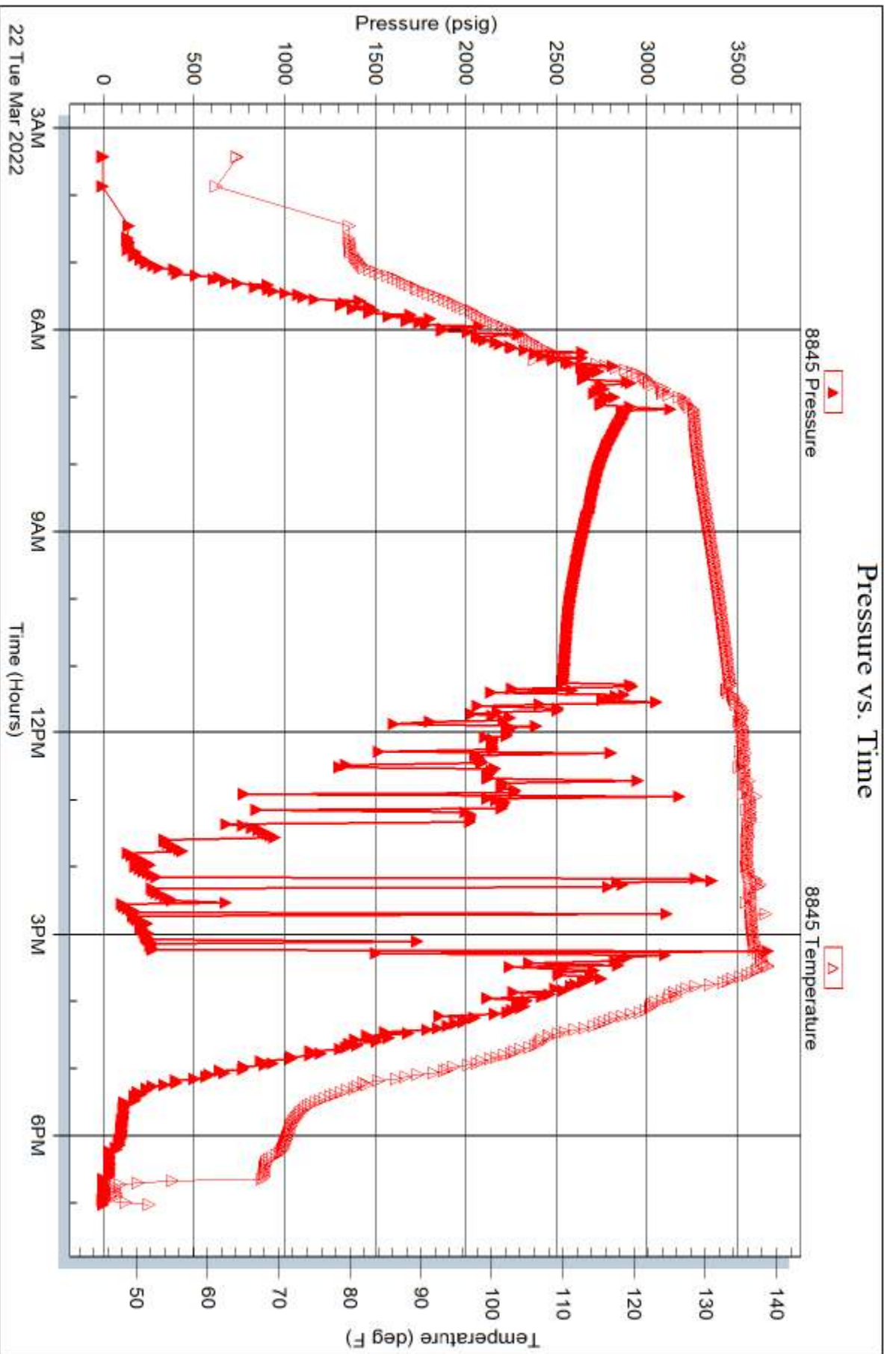


Serial #: 8845

Below (Stratified) Oil Corp

Cheyenne 3-35

DST Test Number: 1



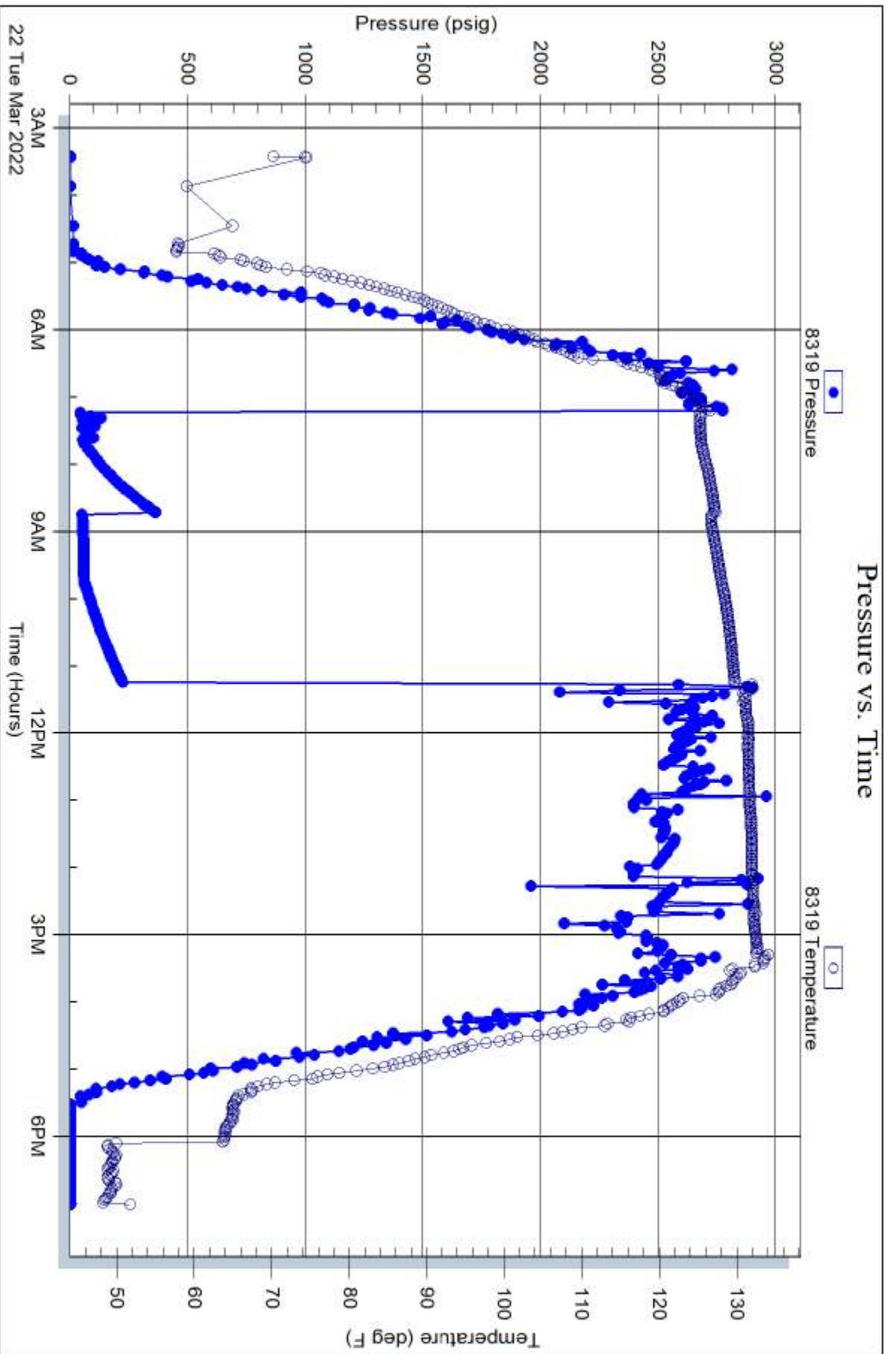
Serial #: 8319

Inside

Stebar Oil Corp

Cheyenne 3-35

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 68064

Printed: 2022.03.22 @ 20:08:26





**CEMENT TREATMENT REPORT**

Customer:	STELBAR OIL CORP.	Well:	CHEYENNE 3-35	Ticket:	WP 2532
City, State:		County:	STANTON, KS.	Date:	3/17/2022
Field Rep:		S-T-R:	35-30S-41W	Service:	SURFACE

Downhole Information		Calculated Slurry - Lead		Calculated Slurry - Tail	
Hole Size:	12 1/4 in	Blend:	H-CON	Blend:	CLASS A CEMENT
Hole Depth:	1553 ft	Weight:	12.0 ppg	Weight:	15.6 ppg
Casing Size:	8 5/8 in	Water / Sx:	14.5 gal / sx	Water / Sx:	5.2 gal / sx
Casing Depth:	1551.7 ft	Yield:	2.47 ft <sup>3</sup> / sx	Yield:	1.20 ft <sup>3</sup> / sx
Tubing / Liner:	in	Annular Bbls / Ft.:	bbs / ft.	Annular Bbls / Ft.:	bbs / ft.
PLUG Depth:	1524.3 ft	Depth:	ft	Depth:	ft
Tool / Packer:		Annular Volume:	0.0 bbls	Annular Volume:	0 bbls
Tool Depth:	ft	Excess:		Excess:	
Displacement:	97.0 bbls	Total Slurry:	0.0 bbls	Total Slurry:	0.0 bbls
		Total Sacks:	500 sx	Total Sacks:	225 sx

TIME	RATE	PSI	BBLs	TOTAL BBLs	REMARKS
7:30PM			-	-	ON LOCATION- SPOT EQUIPMENT
10:00PM				-	RUN 36 JTS 8 5/8"X 24# CASING
					TURBO- GUIDE SHOE, 1,5,9,13,17,21,25,29,33
					BASKET- 9, 23
11:45PM				-	CASING ON BOTTOM - HAD TO CIRCULATE PIPE DOWN
12:30AM				-	HOOK UP TO CASING- BREAK CIRCULATION WITH RIG PUMP AND MUD
1:00 AM	7.0	350.0	5.0	5.0	H2O AHEAD
1:03AM	7.0	300.0	220.0	225.0	MIX 500 SKS H- CON @ 12 PPG
1:35AM	4.0	200.0	48.0	273.0	MIX 225 SKS CLASS A CEMENT @ 15.6 PPG
2:10AM				273.0	SHUT DOWN- DROP T.R. PLUG
2:14AM	7.0	100.0	-	273.0	START DISPLACEMENT
2:27AM	4.0	700.0	90.0		SLOW RATE
2:30AM	3.0	850.0	97.0		PLUG DOWN- HELD
					CIRCULATION THRU JOB
					CIRCULATED 15 BBL TO PIT
2:45AM					WASH UP PUMP TRUCK
					JOB COMPLETE, THANKS- KEVEN AND CREW

CREW		UNIT		SUMMARY		
Cementer:	LESLEY		926	Average Rate	Average Pressure	Total Fluid
Pump Operator:	OSBORN		176-522	5.3 bpm	417 psi	460 bbls
Bulk #1:	TRAVINO R.H.		181-533			
Bulk #2:	WAITS R.H.		182-256			







**CEMENT TREATMENT REPORT**

Customer:	Stelbar Oil Corp	Well:	Cheyenne 3-35	Ticket:	wp 2565
City, State:	Johnson City Kansas	County:	Stanton Kansas	Date:	
Field Rep:	Dustin Damme	S-T-R:	35 -30s-41w	Service:	Production Casing

Downhole Information	
Hole Size:	7 7/8 in
Hole Depth:	5590 ft
Casing Size:	5 1/2 in
Casing Depth:	4230 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	
Tool Depth:	ft
Displacement:	99.0 bbbls

Calculated Slurry - Lead	
Blend:	H-Ld
Weight:	15.0 ppg
Water / Sx:	6.2 gal / sx
Yield:	1.49 ft <sup>3</sup> / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0.0 bbls
Excess:	
Total Slurry:	53.0 bbls
Total Sacks:	200 sx

Calculated Slurry - Tail	
Blend:	H-Plug
Weight:	13.7 ppg
Water / Sx:	6.9 gal / sx
Yield:	1.43 ft <sup>3</sup> / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	12.7 bbls
Total Sacks:	50 sx

TIME	RATE	PSI	STAGE BBLs	TOTAL BBLs	REMARKS
4:30 AM			-	-	on location job and safety
4:45 AM				-	spot trucks and rig
				-	turbolizers 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20
				-	Baskets 1,20
9:05 AM				-	start casing in the hole
11:50 AM				-	casing on bottom and circulate
				-	
12:55 PM				-	start flush
	3.5	250.0		-	2% kcl
	3.5	250.0		-	500 super flush
	6.6	700.0		-	2% kcl
1:03 PM	2.0	-	12.7		plug rat and mouse hole.....rat hole 30 sacks mouse hole 20 sacks
1:10 PM					start cement down hole
	5.0	700.0	53.0		mix 200 sacks H-LD
1:30 PM					cement in and shut down
					wash pump and lines and release plug
1:35 PM					start displacement
	7.5	500.0	30.0		
	7.5	500.0	40.0		
	7.5	800.0	50.0		
	6.5	800.0	70.0		
	4.0	700.0	80.0		
1:50 PM		800.0	99.0		plug down,,,,,took from 800 to 1600 psi
					float did hold

CREW		UNIT	SUMMARY		
Cementer:	M Brungardt	916	Average Rate	Average Pressure	Total Fluid
Pump Operator:	R Osborn	523/522	5.4 bpm	545 psi	435 bbls
Bulk #1:	G Scott				
Bulk #2:					

# GEOLOGIC REPORT

## DAVID J. GOLDAK

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

Well Name: Cheyenne #3-35  
API: 15-187-21348-0000  
Location: Section 35 - T30S - R41W  
License Number: \_\_\_\_\_  
Spud Date: 03 / 15 / 2022  
Surface Coordinates: 1649' FNL and 1961' FWL  
NE - NW - SE - NW  
Bottom Hole Coordinates: \_\_\_\_\_  
Ground Elevation (ft): 3386' K.B. Elevation (ft): 3397'  
Logged Interval (ft): 2700' To: 5590' Total Depth (ft): 5590'  
Formation: Mississippian - St Louis  
Type of Drilling Fluid: Chemical - Mud-Co

Region: Stanton Co., KS  
Drilling Completed: 03 / 22 / 2022

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

### OPERATOR

Company: Stelbar Oil Corporation  
Address: 1625 N. Waterfront Pkwy., Suite 200  
Wichita, Kansas 67206-6602

### GEOLOGIST

Name: David J. Goldak  
Company: D. J. GOLDAK, INC.  
Address: 12427 W Ridgepoint Cir  
Wichita, Kansas 67235

### General Info

CONTRACTOR: Sterling Drilling, Rig #4

#### BIT RECORD:

No.	Size	Make	Jets	Out	Feet	Hours
1	12-1/4	JZ-HAT417	4-16s	1569'	1569'	21.50
2	7-7/8	TRX-HA20	16-16-18	1682'	113'	1.50
3	7-7/8	TRX-PL516	5-16s	5590'	3908'	61.25

SURVEYS: 540'-0.3, 1557'-0.4, 2573'-0.2, 3561'-0.5, 4541'-0.8, 5590'-1.5

#### GENERAL DRILLING & PUMP INFORMATION:

Collars: 19 joints of collars (6.25"x2.25"): 589.36'  
Drilling: 12,000-18,000 lbs on bit and 95-110 RPM.  
Pumping: 58-65 S/M; 8.5-9.6 B/M; 850-1000 psi at standpipe.

## Daily Status

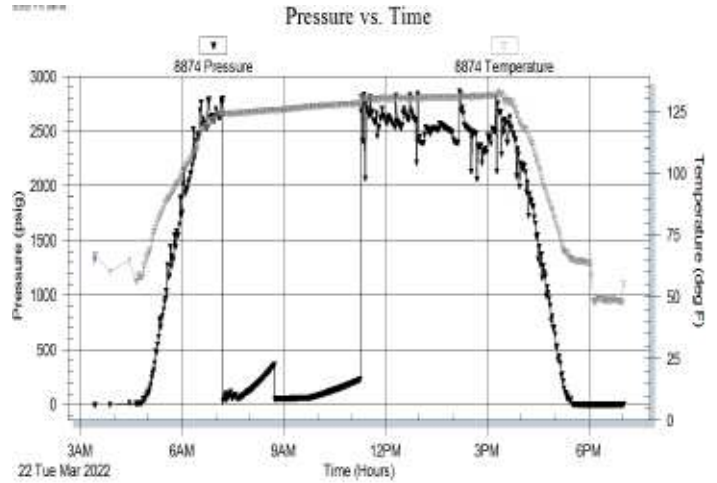
03/15/22 - Spud at 10:30 AM  
 03/16/22 - 1,115' Drilling; Set 8-5/8" csg. @ 1,565'; PD @ 2:30 AM 03/17  
 03/17/22 - 1,569' WOC; DP @ 2:30 PM; Bit trip for PDC @ 1,682'  
 03/18/22 - 2,382' Drilling; Displace @ 3,497'  
 03/19/22 - 3,840' Drilling; Wiper trip 24 stands @ 4,294'  
 03/20/22 - 4,830' Drilling; TD @ 5,590'; Wiper trip 21 stands  
 03/21/22 - 5,590' CTCH; Log well; Prepare for DST  
 03/22/22 - 5,590' TIH with DST #1

**DST #1: 5,302' - 5,474' [Drilling Measurements]**  
**Straddle Test (Lower Morrow & Keyes)**  
 30" - 60" - 60" - 90"

IF: Blow building to 2 inches  
 ISI: No return blow  
 FF: Blow building to 3.5 inches  
 FSI: No return blow


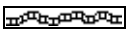
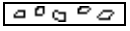
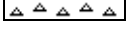




**RECOVERY: 90' Total Fluid, consisting of:**  
 90' Mud (100% M)  
 Sampler: 2,000 ml Mud @ 0 psi





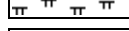

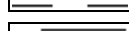
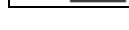
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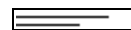









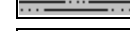

	Log Tops	Sample Tops
Anhydrite	1559 (+1838)	1560 (+1837)
Base of Anhy	1570 (+1827)	1572 (+1825)
Heebner	3636 (-239)	
Lansing	3699 (-302)	
Marmaton	4327 (-930)	
Atoka Shale	4890 (-1493)	4894 (-1497)
Morrow Shale	4993 (-1596)	4999 (-1602)
Middle Morrow Sand	5130 (-1733)	5127 (-1730)
Lower Morrow Marker	5289 (-1892)	5292 (-1895)
Lower Morrow Sand	5338 (-1941)	5344 (-1947)
Lower Keyes Sand	5440 (-2043)	5440 (-2043)
Miss - Chester	5457 (-2060)	5461 (-2064)
Miss - St Gen	5478 (-2081)	5483 (-2086)
Miss - St Louis	5530 (-2133)	5538 (-2141)
Total Depth	5588 (-2191)	5590 (-2193)

## ROCK TYPES

 Anhy  
 Bent  
 Brec  
 Cht  
 Clyst  
 Coal  
 Congl  
 Dol

 Gyp  
 Igne  
 Lmst  
 Meta  
 Mrlst  
 Salt  
 Shale  
 Shcol

 Shgy  
 Slstt  
 Ss  
 Till  
 Carb sh  
 Dol  
 Dtd  
 Gry sh

 Sandylms  
 Shale  
 Slstn  
 Shlyslts  
 Sltysh  
 Lms

### ACCESSORIES

#### MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Breclfrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr

- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff
- Chlorite
- Dol
- Sand
- Sltly

#### 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

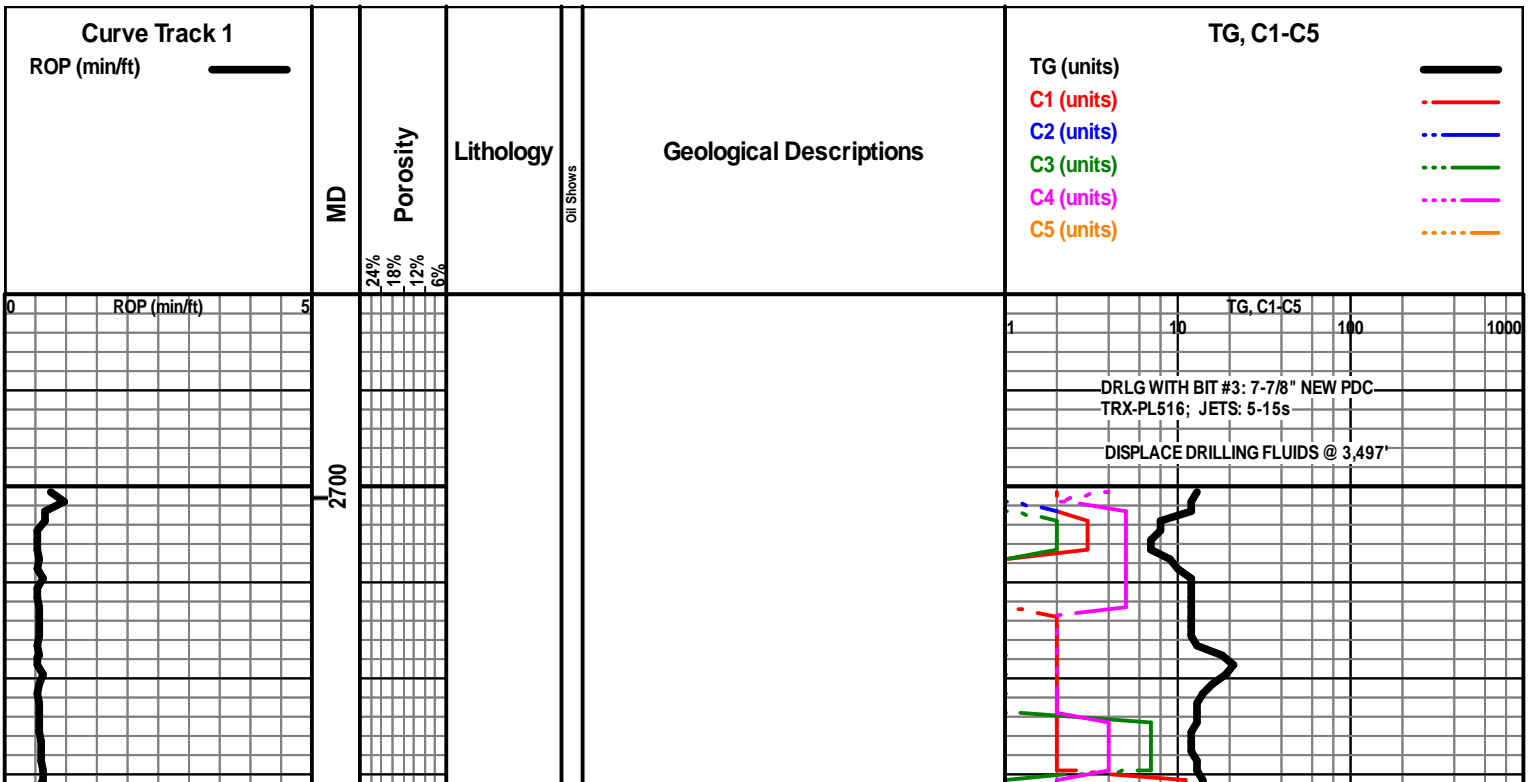
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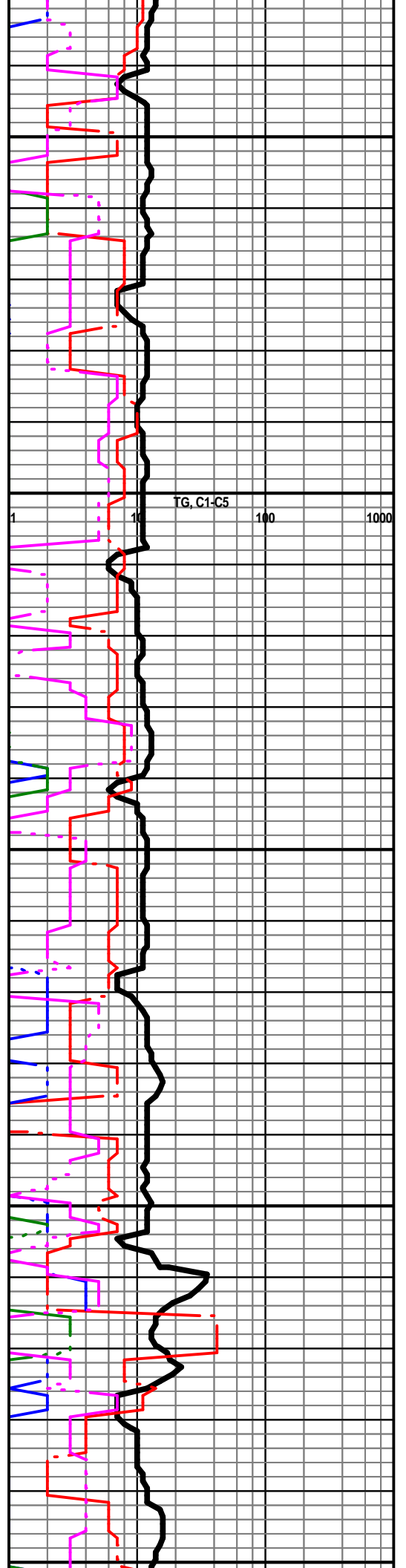
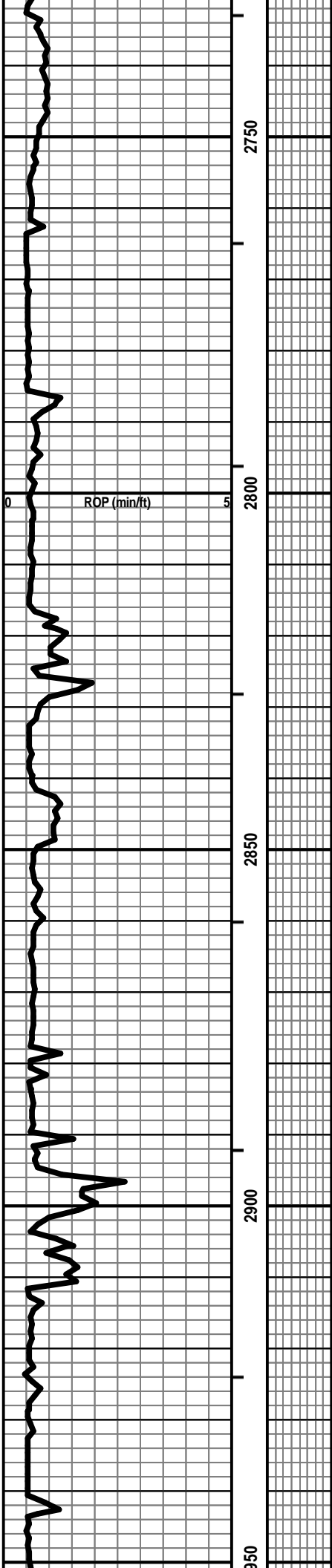
- Core
- Dst

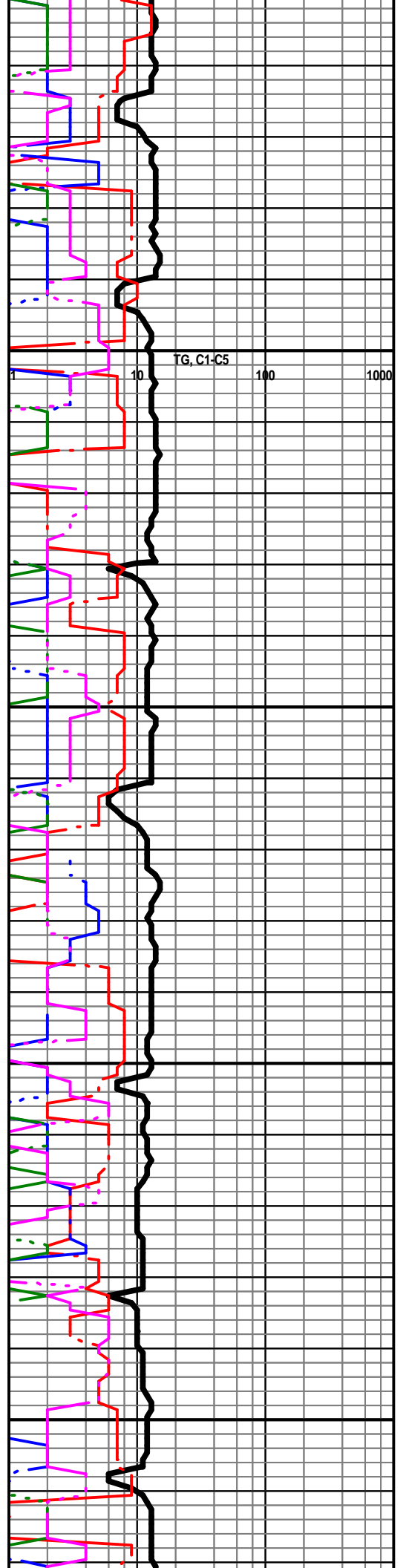
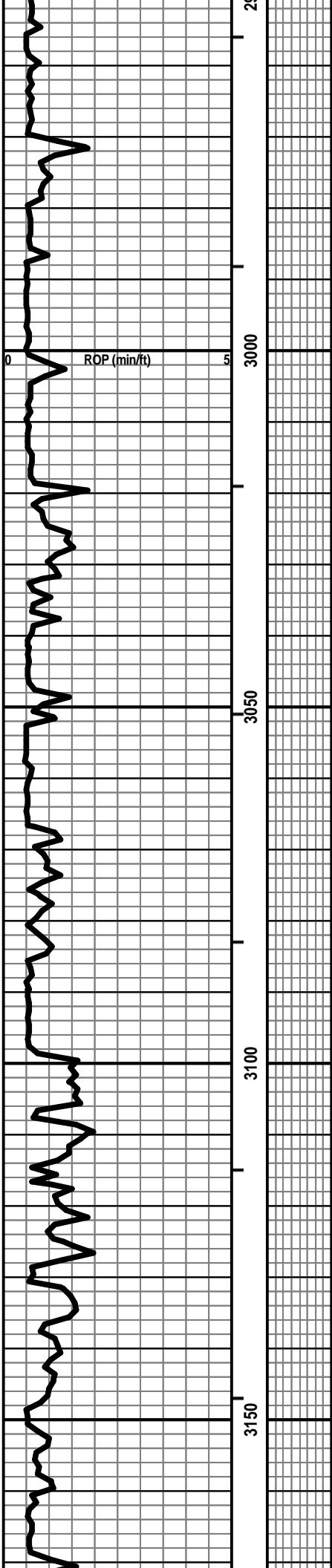
- Dst\_1\_t
- Dst\_1\_b
- Dst

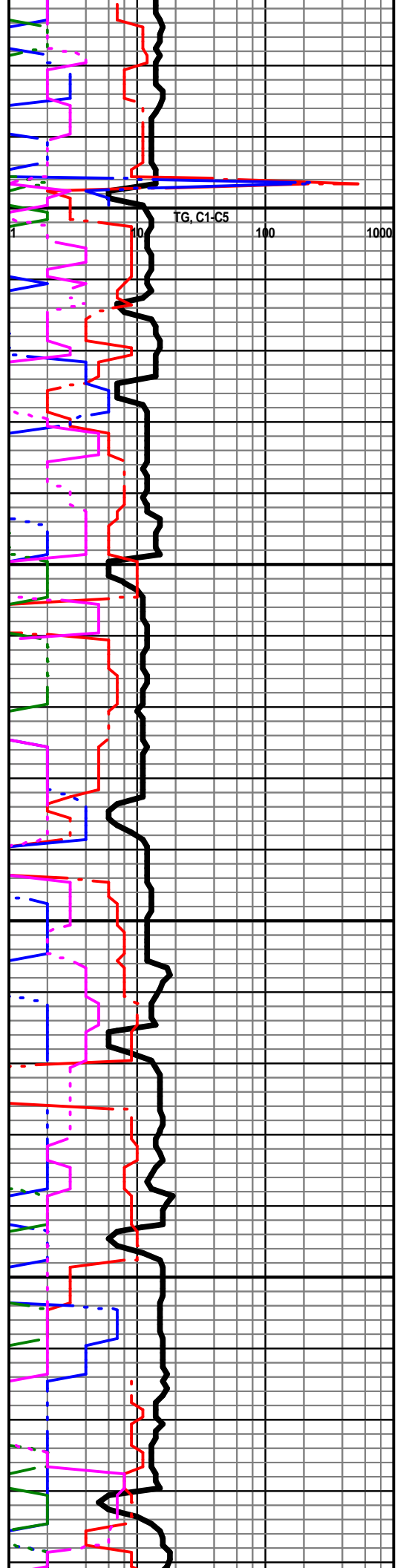
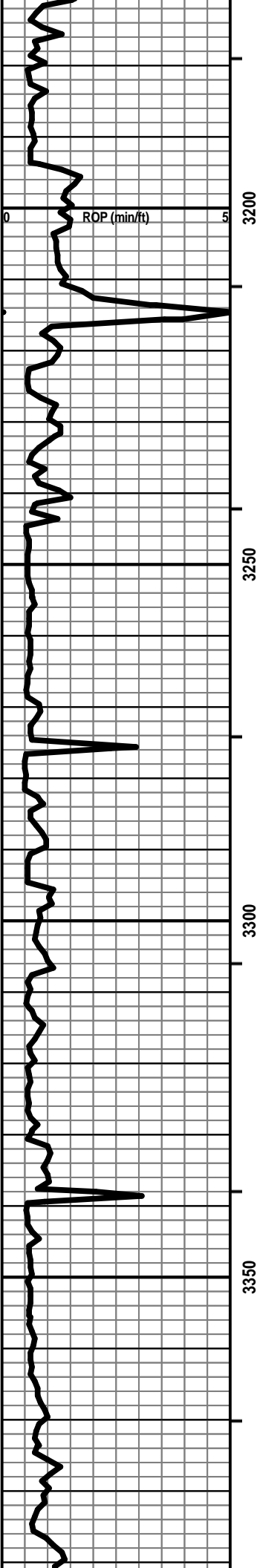
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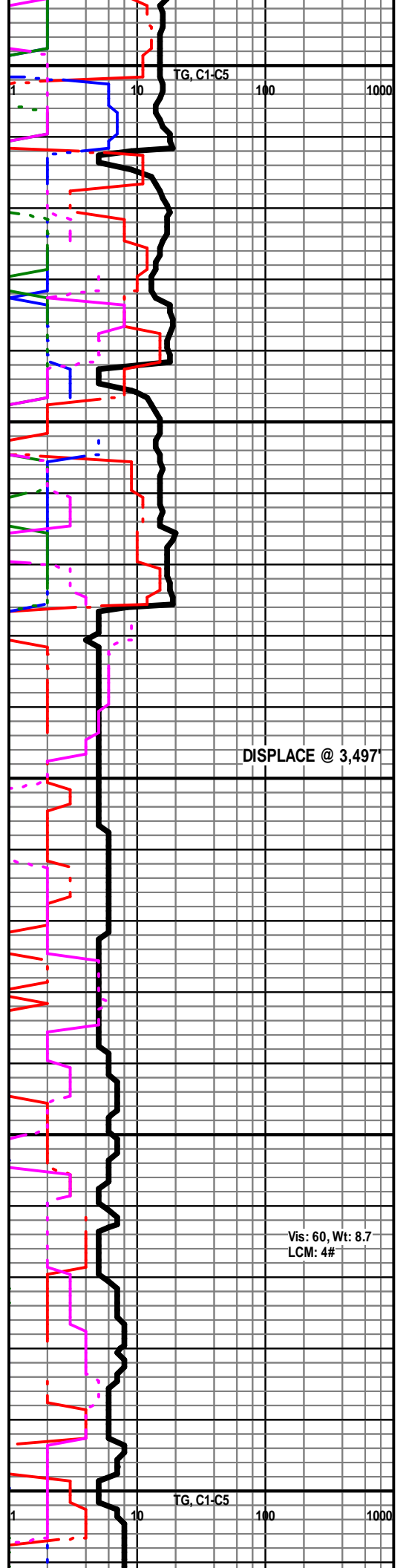
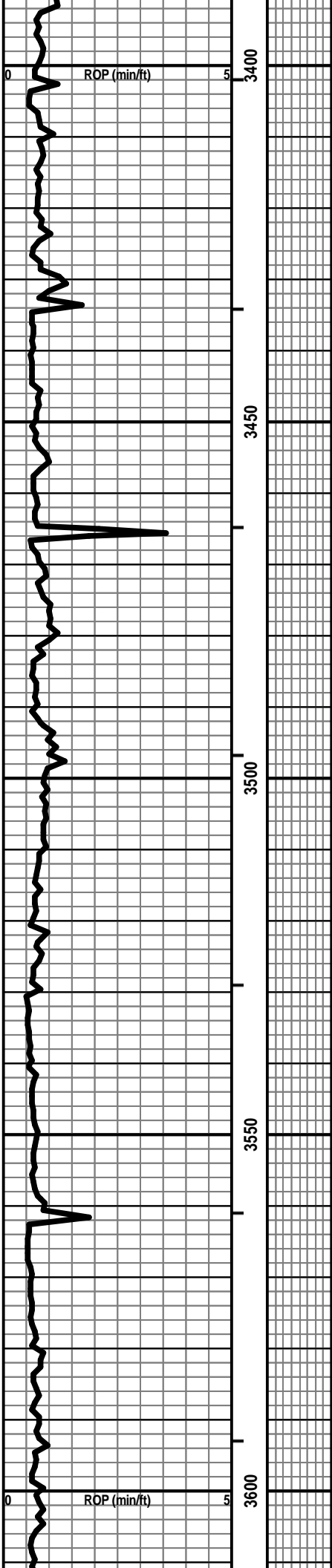
- Rft
- Sidewall
- Conn



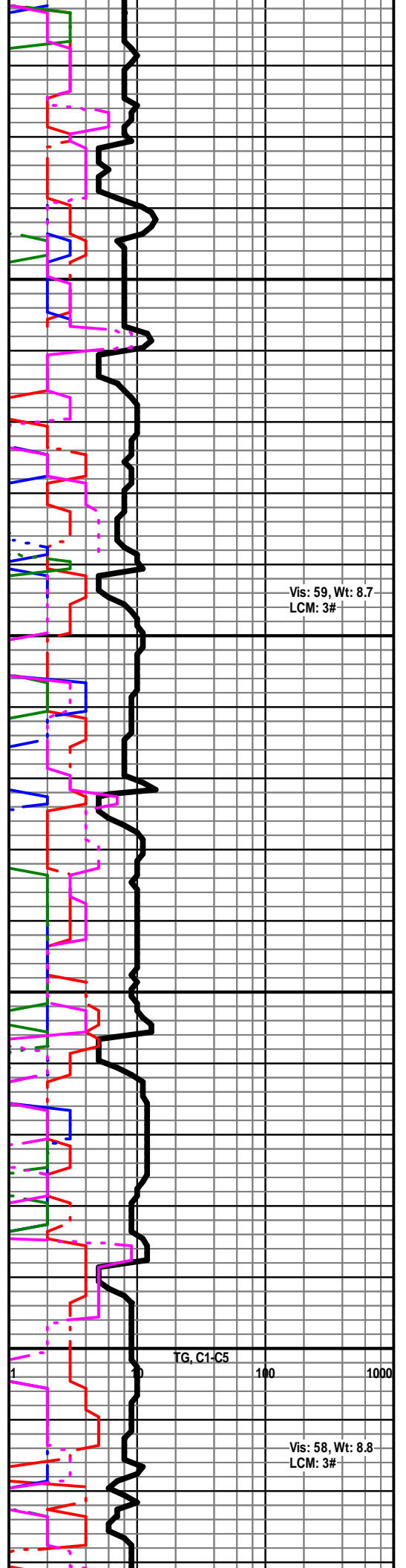
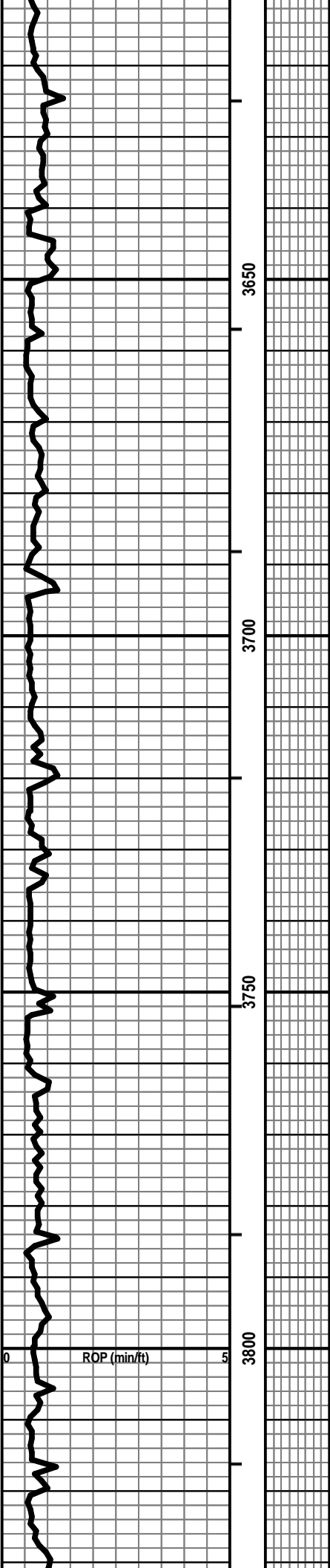


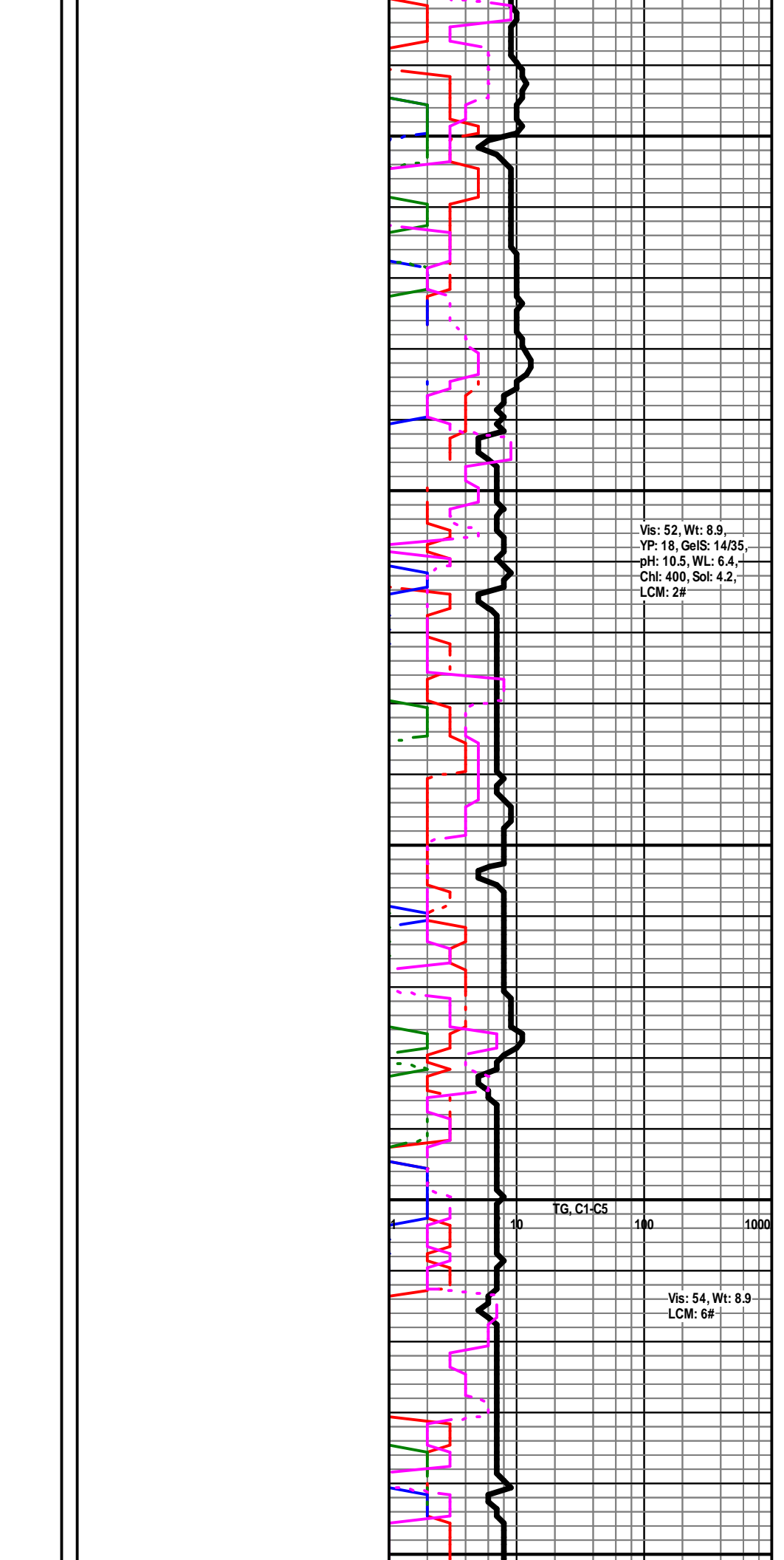
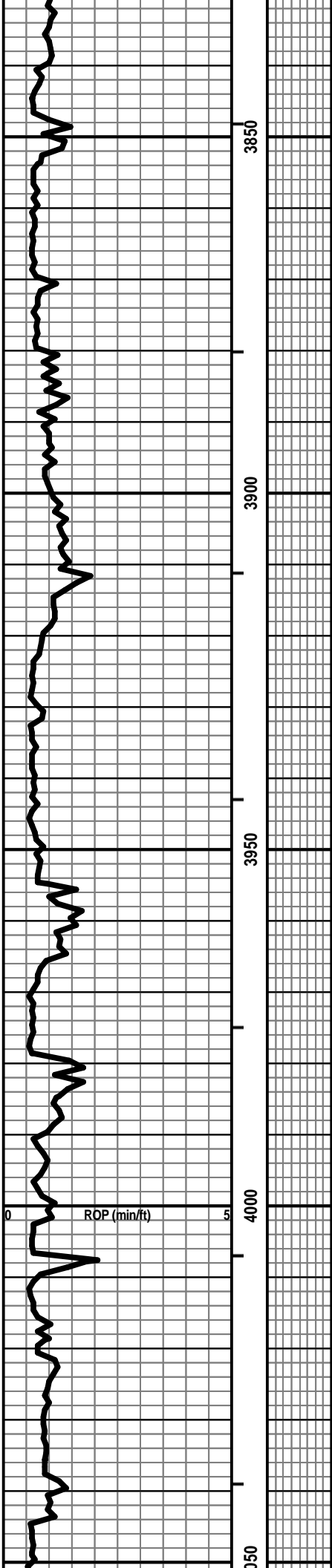


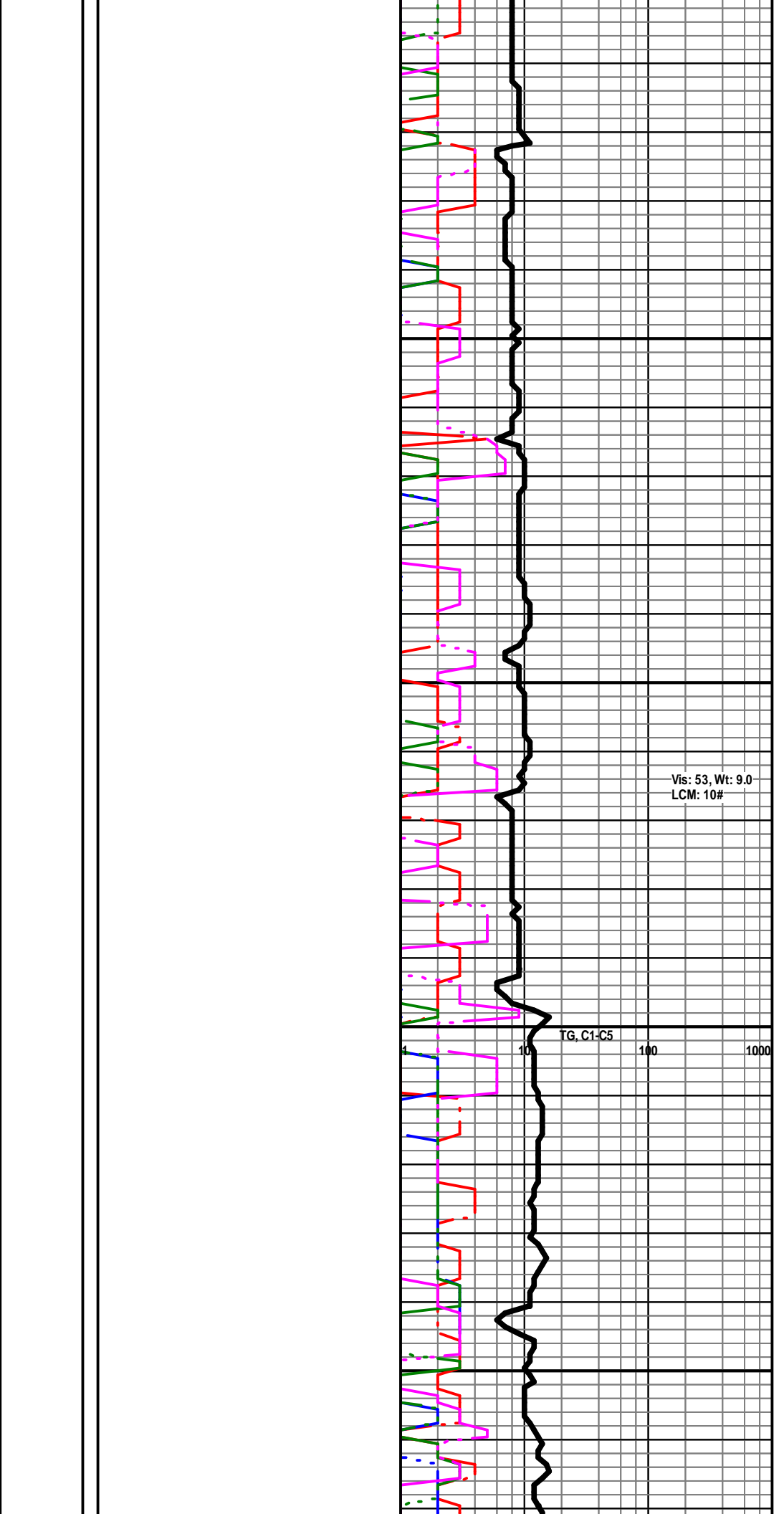
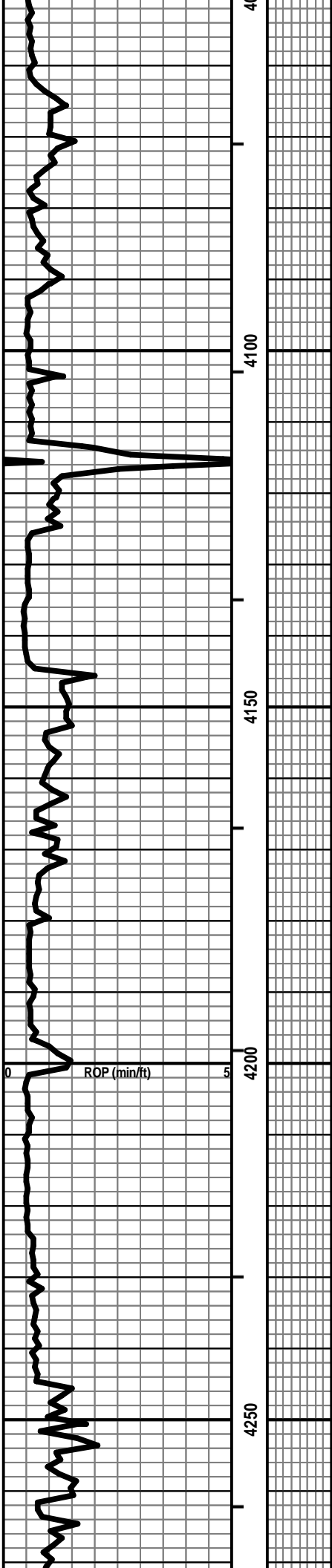


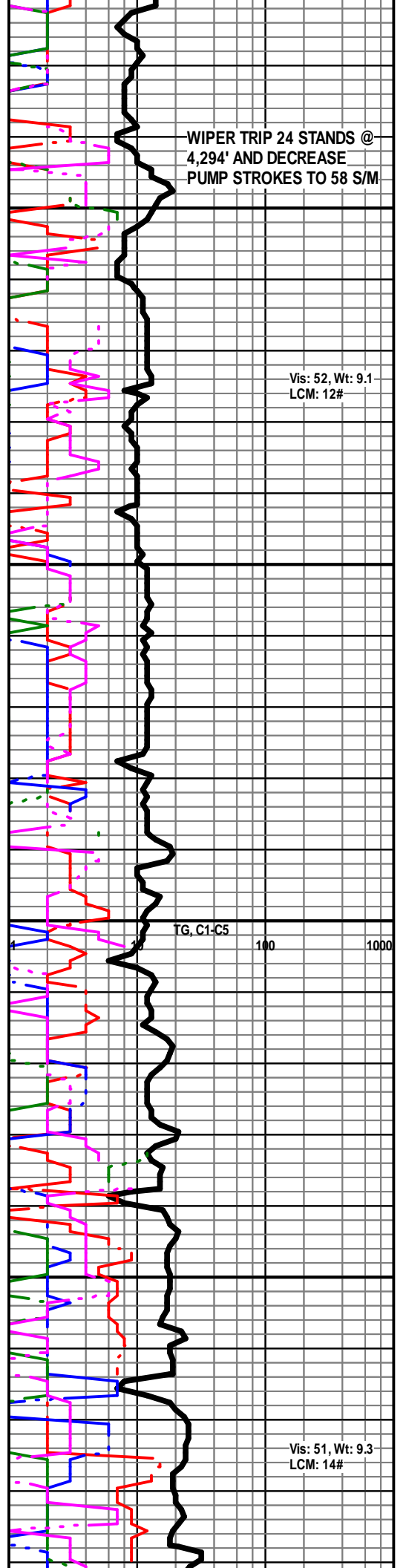
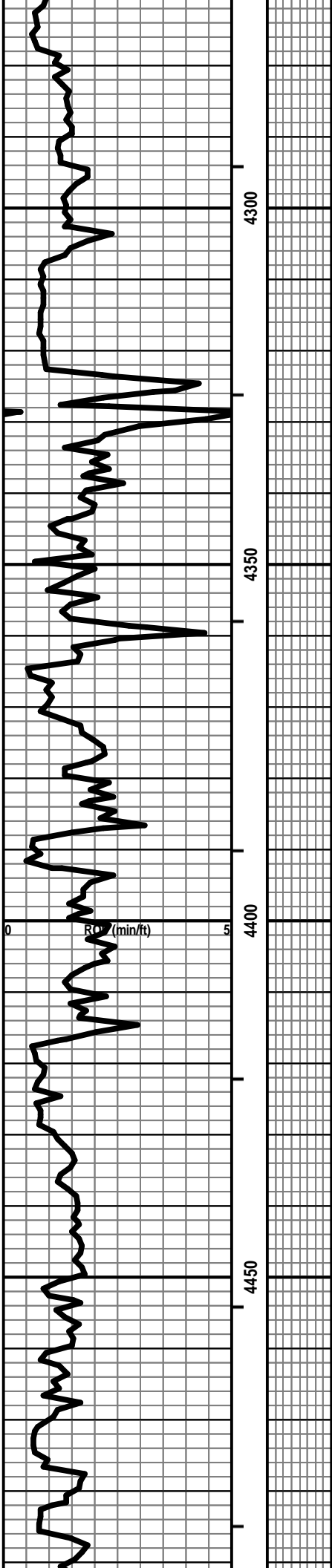


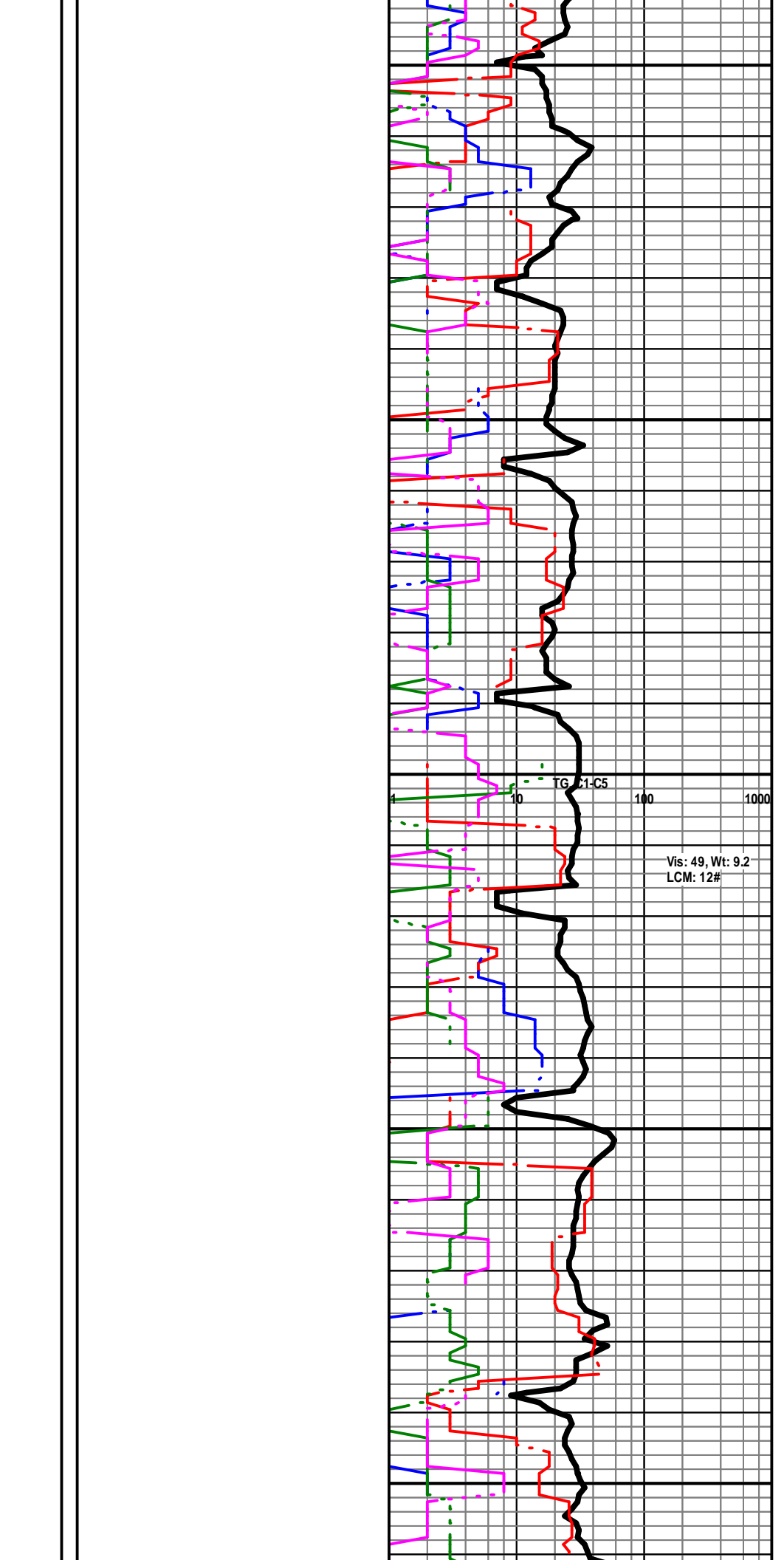
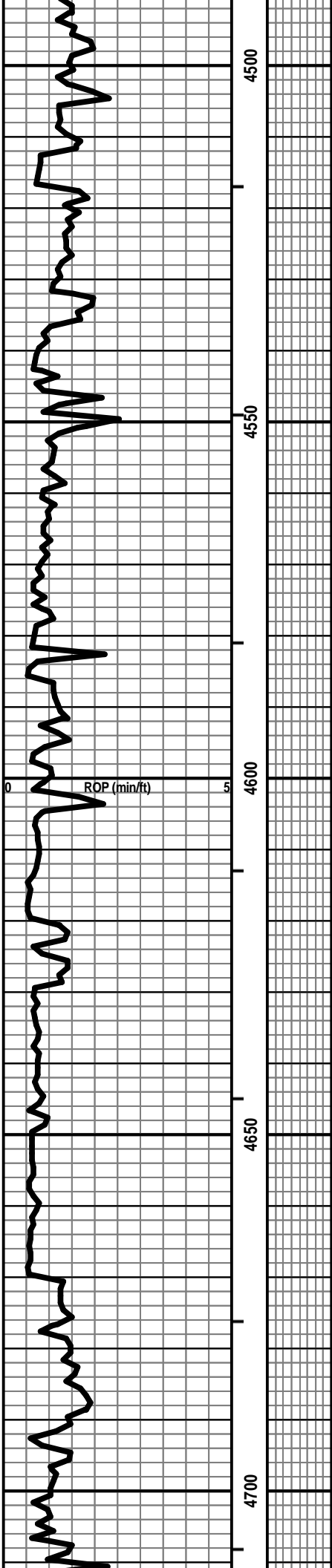


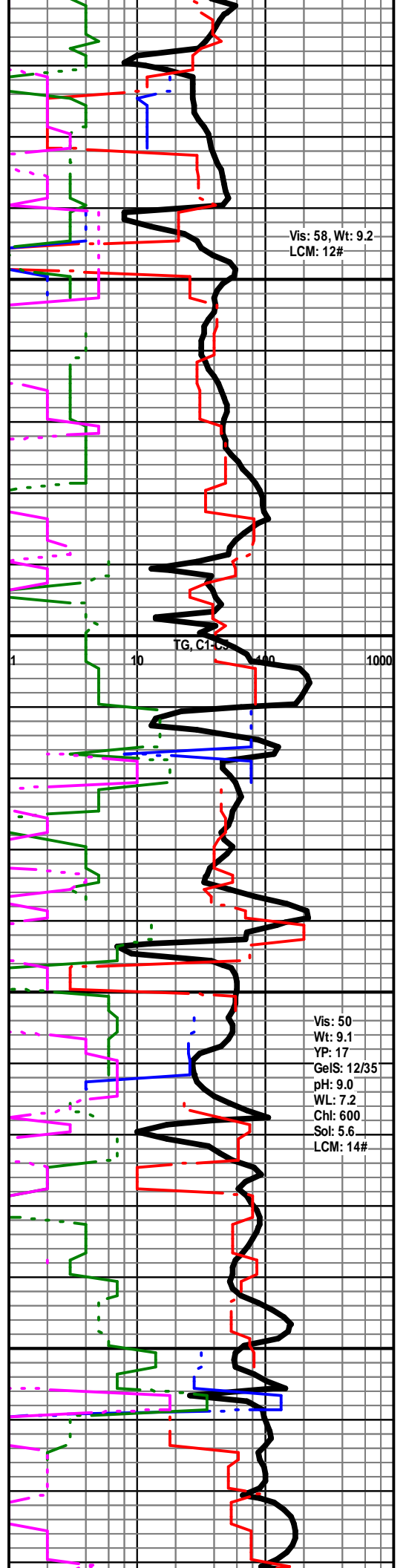
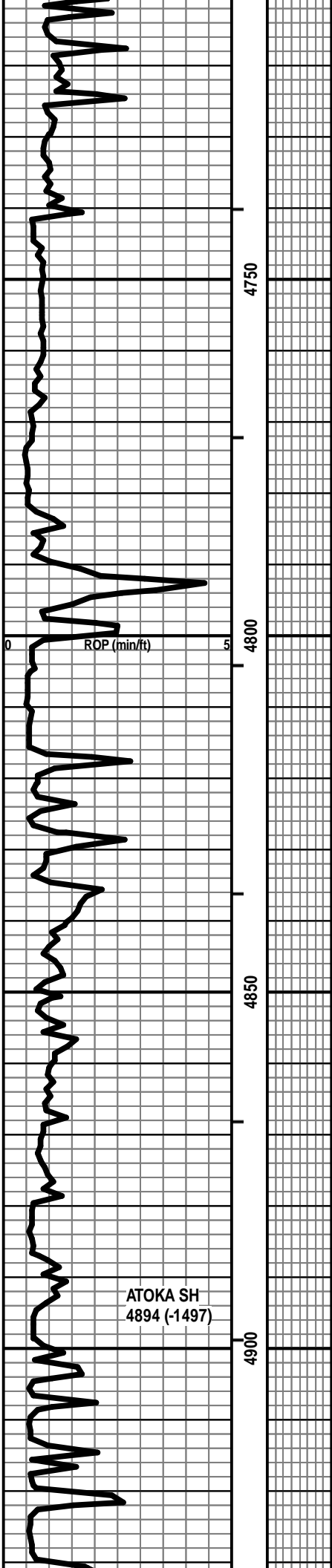


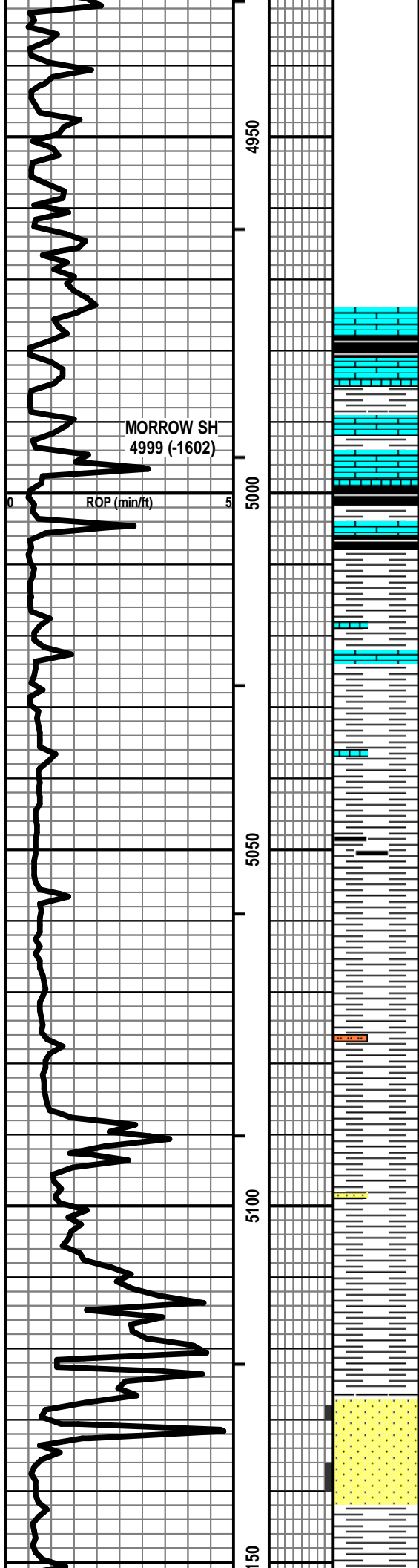












MORROW SH  
4999 (-1602)

ROP (min/ft)

4950

5000

5050

5100

5150

LS - GY / BRN / TAN, PRED MOT, F XLN, SL FOSS, SCAT  
AREN, PRED DNS, NS W/ SH - GY / BLK, CARB IN PT

LS - GY / BRN / TAN, PRED MOT, F XLN, SL FOSS, SCAT  
AREN, PRED DNS, NS W/ SH - GY / BLK, CARB IN PT

PRED SH - GY / SCAT BLK, SCAT SLTY W/ LS - V SIM  
TO ABOVE, NS

PRED SH - GY / SCAT BLK W/ SCAT LS - AS ABOVE W/  
TR COAL

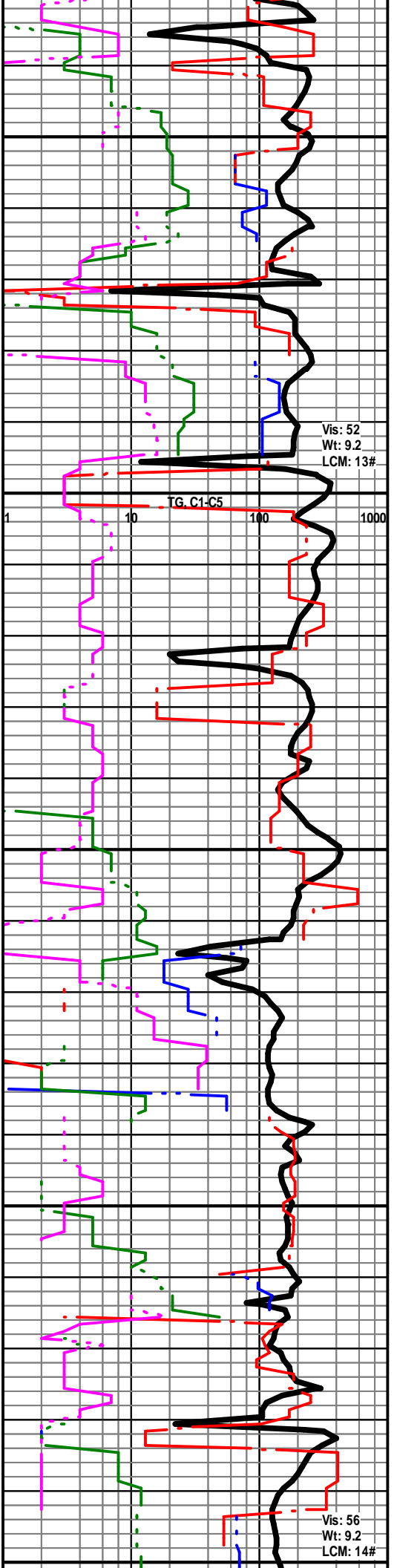
SH - GY / SCAT BLK W/ SCAT COAL W/ SCAT PYR W/  
MOD AMT LS CAVINGS - AS ABOVE

SH - GY W/ SCAT PYR W/ TR SS - LT GY, SLT / VF GR,  
CALC, GLAUC IN PT, NS W/ TR SLTST - LT GY W/ MOD  
AMT LS CAVINGS - AA

SH & LS - AS ABOVE W/ TR SLTST

— MID MORROW SAND 5127 (-1730)

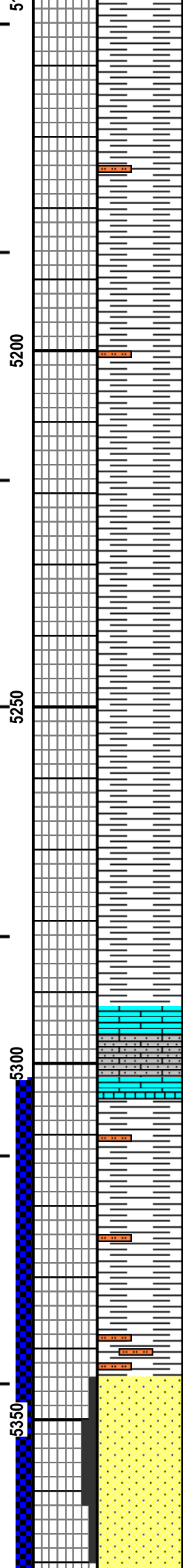
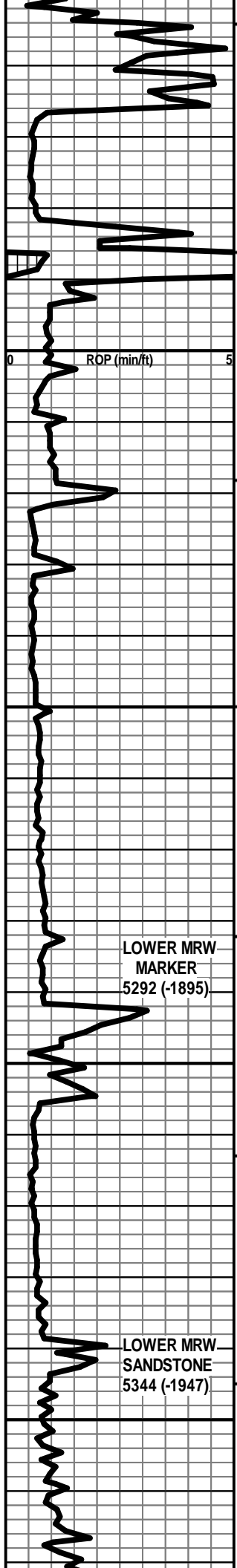
SS - LT GY, VF GR, W SRTD, MOD CALC CEM, MIC,  
COAL / SH FRAG IN PT, P / NO VIS POR, SGB IN PT W/  
SCAT SS - LT GY, VF / F GR, F SRTG, SR / SA, CALC, P /  
F INTGR POR, NS W/ SH - PRED GY



Vis: 52  
Wt: 9.2  
LCM: 13#

TG, C1-C5

Vis: 56  
Wt: 9.2  
LCM: 14#



SH - GY W/ SS & CAVINGS - AS ABOVE

PRED SH - GY, SCAT SLTY

PRED SH - GY, SCAT SLTY

PRED SH - GY

PRED SH - GY, SCAT SLTY

PRED SH - GY

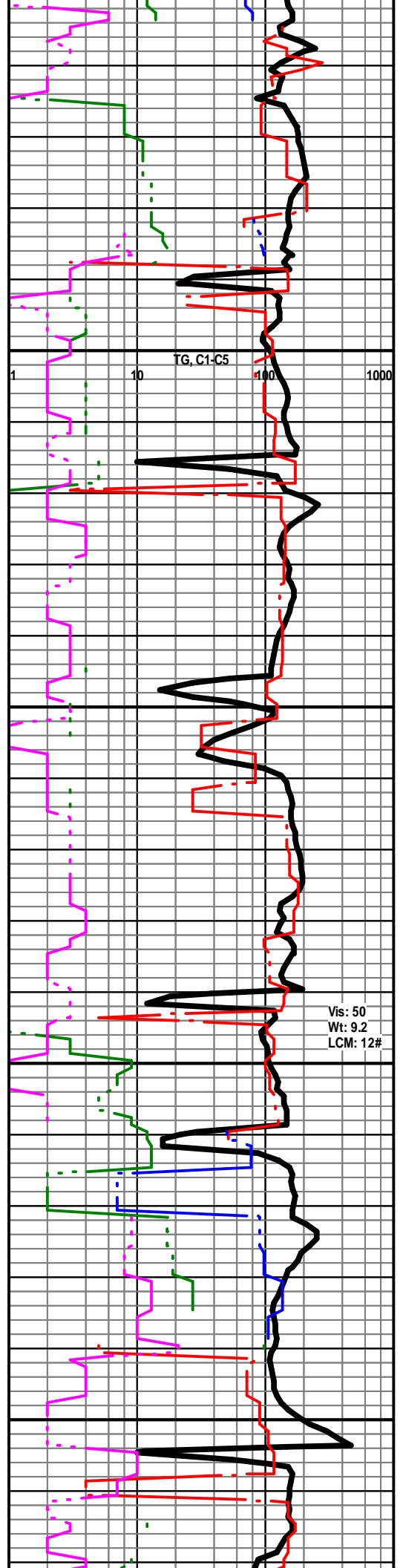
PRED SH - GY

LS - TAN / GY, MOT, F / C XLN, AREN IN PT, F / C QTZ GR, PRED DNS, NS

PRED SH - GY, SLTY IN PT

PRED SH - GY, SLTY IN PT W/ SCAT SS - GY, VF / F & F / M GR, W / FW SRTD, SA / SR, CALC CEM, CHL & GLAUC IN PT, P / F INTGR POR, NS

SS - GY, F / M GR, F SRTG, SR / SA, CALC CEM, CHL & GLAUC, SCAT LS FRAG IN PT, P / F INTGR POR, SSGB IN PT, VSSFO IN PT, PRED NS, NO ODOR, NO VIS STN

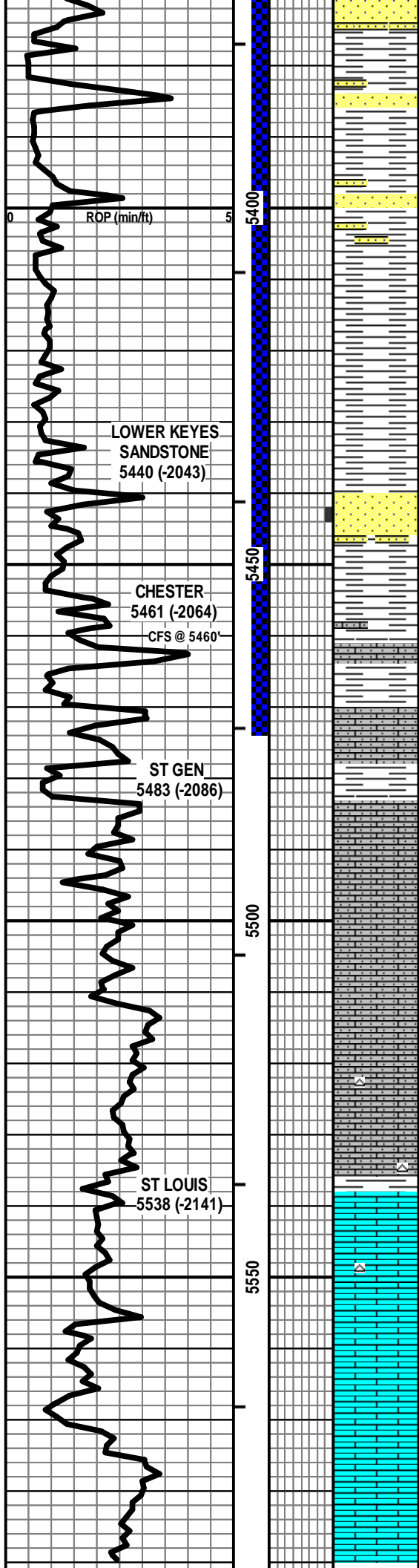


LOWER MRW  
MARKER  
5292 (-1895)

LOWER MRW  
SANDSTONE  
5344 (-1947)

Vis: 50  
Wt: 9.2  
LCM: 12#





SH - GY W/ SCAT SS - GY / TAN, VF GR, V CALC, NO VIS POR, NS

SH - GY W/ SS - GY, VF / F GR, FW SRTD, SA / SR, CALC CEM, CHL & GLAUC, ARGIL IN PT, P / NO VIS POR, NS

PRED SH - GY, SCAT PYR

PRED SH - GY W/ SCAT SS - GY, F / C GR, P SRTD, SA / R, CALC CEM, SCAT GLAUC, SCAT SH & LS FRAG, P / F INTGR POR, NS W/ SCAT SS - GY, F / M GR, F SRTG, SR / SA, CALC CEM, CHL & GLAUC, P / F POR, NS (CAVINGS?)

LS - BRN / GY / TAN / GRN, VF XLN, AREN, VF QTZ GR, NO VIS POR, NS W/ SH - GY

LS - ASABOVE W/ SH - GY

LS - WHT / CRM, VF XLN, FNLY OOL, AREN, VF QTZ GR, NO VIS POR, NS

LS - WHT / CRM, VF XLN, FNLY OOL, AREN, VF QTZ GR, NO VIS POR, NS

LS - WHT / CRM, VF XLN, FNLY OOL, AREN, VF QTZ GR, NO VIS POR, NS

LS - ASABOVE W/ SCAT LS - CRM / TAN, F XLN, SCAT OOL, PRED DNS, NS W/ TR CHT

LS - CRM / LT GY / SCAT TAN, F XLN, OOL IN PT, SCAT CHKY, PRED DNS, NS W/ TR CHT

LS - CRM / LT GY / SCAT TAN, MOT IN PT, F XLN, OOL IN PT, TR FOSS, SCAT CHKY, PRED DNS, NS

LS - ASABOVE, PRED DNS, NS

DST #1: 5302-5474  
 STRADDLE TEST  
 SEE DST HEADER  
 FOR RESULTS

TG, C1-C5

Vis: 52  
 Wt: 9.2+  
 LCM: 14#

Vis: 55  
 Wt: 9.4  
 LCM: 14#

Vis: 56  
 Wt: 9.3  
 YP: 20  
 GelS: 14/38  
 pH: 9.5  
 WL: 7.2  
 Chl: 600  
 Sol: 7.2  
 LCM: 14#

