



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1231112  
OIL & GAS CONSERVATION DIVISION

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 # \_\_\_\_\_

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       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 #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

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
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

1231112

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

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				

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 <i>(Amount and Kind of Material Used)</i>	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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Stelbar Oil Corporation, Inc.
Well Name	Southwestern 1-3
Doc ID	1231112

All Electric Logs Run

Compact Photo Density Comp. Neutron Microresistivity Log
Array Induction Shallow Focused Electric Log
Comp. Sonic w/Integrated Transit Time Log
Microresistivity Log





**BASIC**<sup>SM</sup>  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

1700 S. Country Estates Rd.  
Liberal, Kansas 67905  
Phone 620-624-2277

FIELD SERVICE TICKET  
1717 06172 A

DATE \_\_\_\_\_ TICKET NO. \_\_\_\_\_

DATE OF JOB: <u>10/14/14</u>	DISTRICT: <u>1717</u>	NEW WELL <input checked="" type="checkbox"/>	OLD WELL <input type="checkbox"/>	PROD <input type="checkbox"/>	INJ <input type="checkbox"/>	WDW <input type="checkbox"/>	CUSTOMER ORDER NO.:	
CUSTOMER: <u>Skelton</u>	LEASE: <u>Southwestern 1-3</u>						WELL NO.:	
ADDRESS:		COUNTY: <u>Stanton</u>				STATE: <u>Ks</u>		
CITY:		SERVICE CREW: <u>Cable E. Javier</u>						
AUTHORIZED BY: <u>Tyce IRB</u>		JOB TYPE: <u>PTA 242</u>						
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	TIME
<u>17039</u>	<u>5</u>							<u>11:00</u>
<u>372233772</u>	<u>5</u>					ARRIVED AT JOB		<u>AM 4:00</u>
<u>2760619883</u>	<u>5</u>					START OPERATION		<u>AM 6:25</u>
						FINISH OPERATION		<u>AM 8:35</u>
						RELEASED		<u>AM 9:00</u>
						MILES FROM STATION TO WELL		<u>100</u>

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: \_\_\_\_\_  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CL103	60/40 Pbz	SK	170		2096.00
CC200	Cement Gel	Lb	294		73.50
CC102	Cellofalk	Lb	43		159.10
E101	Heavy Equip Mileage	Mi	200		1400.00
CE240	Blending & Mixture Change	SK	170		238.00
E113	Bulk Downout	TM	735		1617.00
CE202	Depth Change 100' to 200'	4hr	1		1560.00
E100	Pickup Mileage	Mi	100		425.00
SC03	Service Supervisor	EA	1		175.00
T105	Cont 10 lbs	EA	1		556.00

CHEMICAL / ACID DATA:			

SUB TOTAL		<u>5724.30</u>
SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		

SERVICE REPRESENTATIVE: Chad Hirtz

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: \_\_\_\_\_  
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.



# Cement Report

Customer <i>Stelbar</i>		Lease No.		Date <i>10/11/14</i>	
Lease <i>Southwestern</i>		Well # <i>1-3</i>		Service Receipt	
Casing	Depth	County <i>Stanton</i>		State <i>KS</i>	
Job Type <i>PTA</i>		Formation		Legal Description	
<b>Pipe Data</b>			<b>Perforating Data</b>		<b>Cement Data</b>
Casing size		Tubing Size <i>4 1/2 D.P.</i>		<b>Shots/Ft</b>	
Depth		Depth <i>1650</i>		From	To
Volume		Volume		From	To
Max Press		Max Press		From	To
Well Connection		Annulus Vol.		From	To
Plug Depth		Packer Depth		From	To
Time	Casing Pressure	Tubing Pressure	Bbbs. Pumped	Rate	Service Log
<i>18:00</i>					<i>on loc. setting mtg, R.O.</i>
<i>18:25</i>		<i>60</i>	<i>10</i>	<i>3</i>	<i>Pump H2O</i>
<i>18:30</i>		<i>140</i>	<i>13.4</i>	<i>5</i>	<i>Mix 50sx @ 1650'</i>
<i>18:33</i>		<i>0</i>	<i>2</i>	<i>5</i>	<i>H2O</i>
<i>18:33</i>		<i>80</i>	<i>18</i>	<i>5</i>	<i>Mud</i>
<i>19:12</i>		<i>100</i>	<i>10</i>	<i>5</i>	<i>H2O</i>
<i>19:14</i>		<i>160</i>	<i>13.4</i>	<i>5</i>	<i>Mix 50sx @ 510'</i>
<i>19:17</i>		<i>0</i>	<i>2</i>	<i>5</i>	<i>H2O</i>
<i>20:27</i>		<i>30</i>	<i>5</i>	<i>3</i>	<i>Mix 20sx @ 60'</i>
<i>20:30</i>			<i>4.5</i>		<i>Plug R+M</i>
<i>20:36</i>					<i>Washup</i>
<i>20:45</i>					<i>Job Completed</i>
Service Units		<i>78939</i>	<i>37253742</i>	<i>2780819883</i>	
Driver Names		<i>C. Hinz</i>	<i>G. Echeverria</i>	<i>S. Duquain</i>	

*Oswaldo*  
Customer Representative

*Jerry Burnett*  
Station Manager

*Chris Hill*  
Cementer



**BASIC**<sup>SM</sup>  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

1700 S. Country Estates Rd.  
Liberal, Kansas 67905  
Phone 620-624-2277

FIELD SERVICE TICKET  
171706145 A

DATE 10/5 TICKET NO.

DATE OF JOB 10/5/14	DISTRICT	NEW WELL <input checked="" type="checkbox"/>	OLD WELL <input type="checkbox"/>	PROD <input type="checkbox"/>	INJ <input type="checkbox"/>	WDW <input type="checkbox"/>	CUSTOMER ORDER NO.:		
CUSTOMER Steel bar	LEASE Southwestern	WELL NO. F-3							
ADDRESS	COUNTY Morton	STATE KS							
CITY	STATE	SERVICE CREW Tommy, David, Gabe, Edgar							
AUTHORIZED BY Tyce Davis	JOB TYPE: Z4Z Surface								
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM/PM	TIME
86573	8 1/2						10/5	AM	2:00
38117/19919	8 1/2					ARRIVED AT JOB		AM	5:30
19824/34425	8 1/2					START OPERATION		AM	11:00
14334/19548	8 1/2					FINISH OPERATION		AM	1:00
						RELEASED		AM	2:00
						MILES FROM STATION TO WELL			100

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: (WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CL101	Acon Blend	SK	385		7161 00
CL110	Premium Plus Cement	SK	150		2445 00
CC109	Calcium Chloride	lb	1368		1436 40
CC102	Celloflake	lb	134		495 80
CC130	C-51	lb	73		1825 00
CF253	✓ Guide Shoe Regular 8 5/8	ea	1		380 00
CF1453	✓ Flapper Type Inlet float 8 5/8	ea	1		280 00
CF4405	✓ Economizer Hinged Centralizers 8 5/8	ea	4		580 00
CF4556	✓ Cement Basket 8 5/8 Canvas	ea	1		1050 00
CF105	✓ Top Rubber Cement Plug 8 5/8	ea	1		285 00
E101	Heavy Equipment Mileage	mi	300		2100 00
CE240	Blending & Mixing Service Charge	SK	535		749 00
E113	Proppant & Bulk Delivery Charge	tm	2515		5530 00
CE202	Depth Charge 1001-2000	4hrs	1		1500 00
CE504	Plug Constraint Utilization Charge	job	1		250 00
E100	Unit Mileage Charge "Pickup"	mi	100		425 00
S003	Service Supervisor first 8hrs.	ea	1		175 00
T105	Cement Data Acquisition Monitor	ea	1		550 00
SUB TOTAL					17779 88

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		

SERVICE REPRESENTATIVE Tommy Marcellis	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: 
FIELD SERVICE ORDER NO.	(WELL OWNER OPERATOR CONTRACTOR OR AGENT)



**BASIC**  
ENERGY SERVICES  
Liberal, Kansas

**Cement Report**

Customer <u>Stelbar</u>		Lease No.		Date <u>10/5/14</u>		
Lease <u>Southwestern</u>		Well # <u>1-3</u>		Service Receipt <u>1717 06145A</u>		
Casing <u>8 5/8 24#</u>	Depth <u>1670</u>	County <u>Morton</u>		State <u>KS</u>		
Job Type <u>Surface</u>		Formation		Legal Description <u>3/31/41</u>		
<b>Pipe Data</b>			<b>Perforating Data</b>		<b>Cement Data</b>	
Casing size <u>8 5/8 24#</u>		Tubing Size		Lead <u>3855K Accon @ 11.4</u>		
Depth <u>1670</u>		Depth		From	To	
Volume <u>103.45</u>		Volume		From	To	
Max Press <u>2000 psi</u>		Max Press		From	To	
Well Connection <u>PL</u>		Annulus Vol.		From	To	
Plug Depth <u>1626.67</u>		Packer Depth		From	To	
				2.95 <u>18.10</u>		
				Tail in <u>150 SK Prem. @ 14.8</u>		
				1.34 <u>6.33</u>		
Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log	
0200					Callout	
0530					On location	
0800					Coming out of hole	
1000					Safety rig / Rigup	
1100					Pressure Test 2000	
1105	320			5.5	Start Cementing lead	
1128	280			4.4	Switch tiers	
1147	740			4.4	Switch to tail	
1200					Shutdown / Drop Plug	
1205	230			5.3	Start Displacement Washup on plug	
1233			90.5		Cement Returns / Shut Down Stage	
1238	500		5	1	Pump 5	
1243	560			0	Shut Down	
1248	340		8	1	Pump remaining Displacement	
1258	660			2	Landed Plug	
	1500				Pressured up	
1:00					Released Back	
					Plug + Float held	
					Job Complete	
Service Units		<u>86573</u>	<u>38117/19919</u>	<u>19827/37775</u>	<u>14394/19548</u>	
Driver Names		<u>Tommy M.</u>	<u>Daniel B.</u>	<u>Gabe M.</u>	<u>Edgar M.</u>	

Evaldo  
Customer Representative

Serry Bennett  
Station Manager

Tommy Marcellos  
Cementer





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Stelbar Oil Corp.  
 1625 n waterfront parkway  
 Wichita Ks 67206  
 ATTN: Dave Goldak

**3/ 31s-41w Morton Ks**  
**Southwestern 1-3**  
 Job Ticket: 57357 **DST#: 1**  
 Test Start: 2014.10.10 @ 23:00:41

## GENERAL INFORMATION:

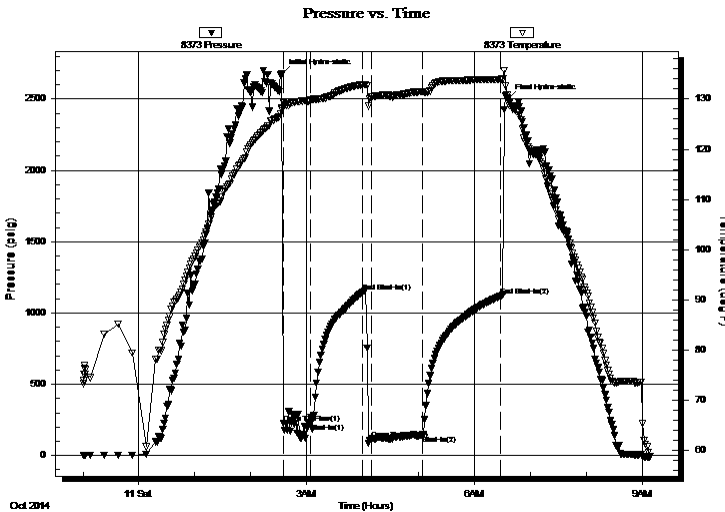
Formation: **Keys**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 02:34:36  
 Time Test Ended: 09:08:06  
 Interval: **5320.00 ft (KB) To 5620.00 ft (KB) (TVD)**  
 Total Depth: 5620.00 ft (KB) (TVD)  
 Hole Diameter: 7.87 inches Hole Condition: Poor  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: James Geier  
 Unit No: 60  
 Reference Elevations: 3399.00 ft (KB)  
 3388.00 ft (CF)  
 KB to GR/CF: 11.00 ft

## Serial #: 8373

Press @ Run Depth: 144.35 psig @ ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.10.10 End Date: 2014.10.11 Last Calib.: 2014.10.11  
 Start Time: 23:00:41 End Time: 09:08:06 Time On Btm: 2014.10.11 @ 02:33:36  
 Time Off Btm: 2014.10.11 @ 06:36:06

TEST COMMENT: IF: BOB in 4 min.  
 IS: No return  
 FF: BOB in 1 min.  
 FS: No return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2675.00	128.33	Initial Hydro-static
1	225.02	129.15	Open To Flow (1)
30	228.04	129.76	Shut-In(1)
87	1147.83	132.84	End Shut-In(1)
96	118.39	130.42	Open To Flow (2)
151	144.35	131.48	Shut-In(2)
234	1116.20	133.92	End Shut-In(2)
243	2502.99	128.96	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
250.00	100% m	1.25

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Stelbar Oil Corp.

**3/ 31s-41w Morton Ks**

1625 n w aterfront parkw ay  
Wichita Ks 67206

**Southwestern 1-3**

Job Ticket: 57357

**DST#: 1**

ATTN: Dave Goldak

Test Start: 2014.10.10 @ 23:00:41

## 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: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.17 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1100.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
250.00	100% m	1.248

Total Length: 250.00 ft      Total Volume: 1.248 bbl

Num Fluid Samples: 0

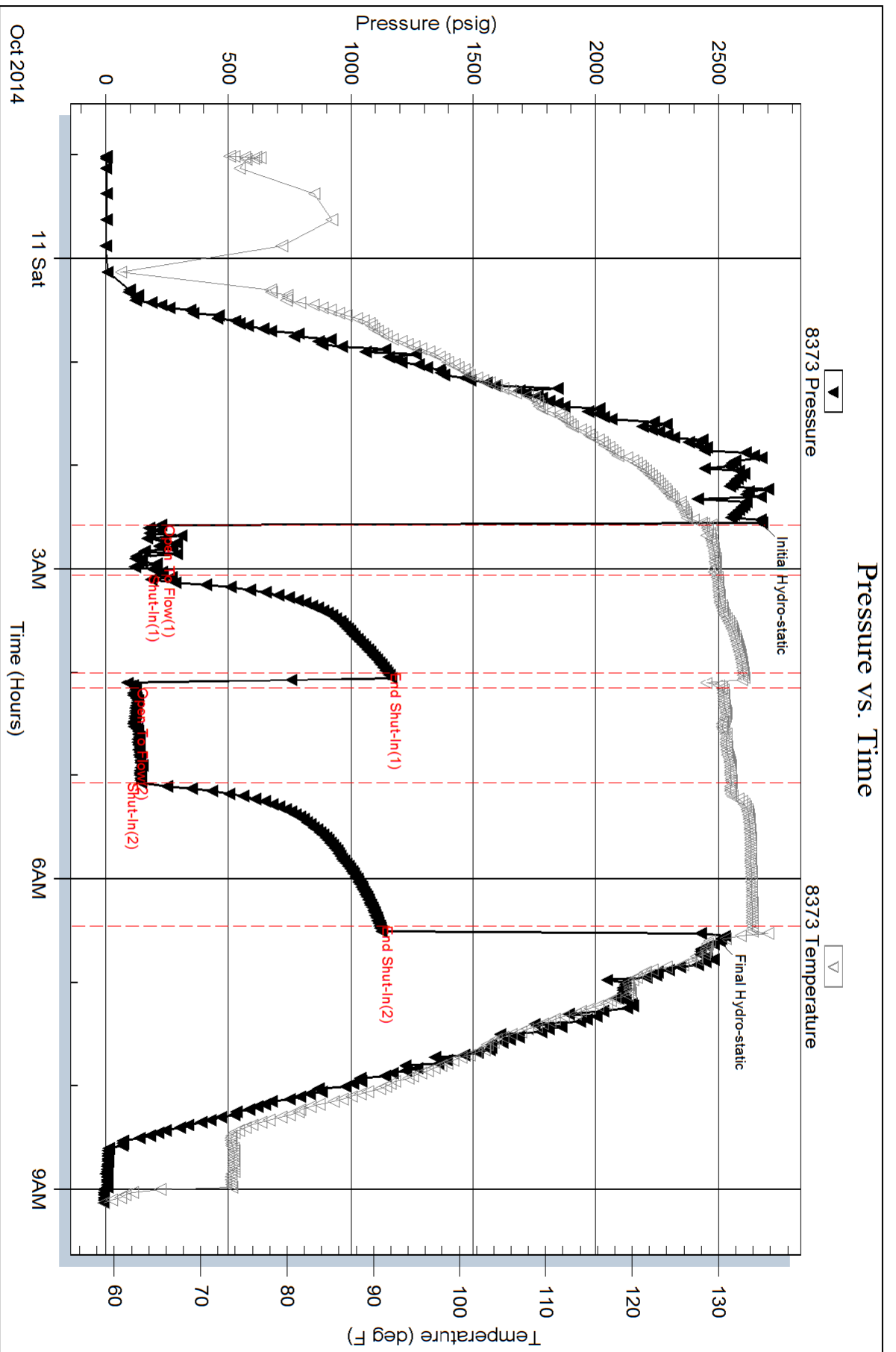
Num Gas Bombs: 0

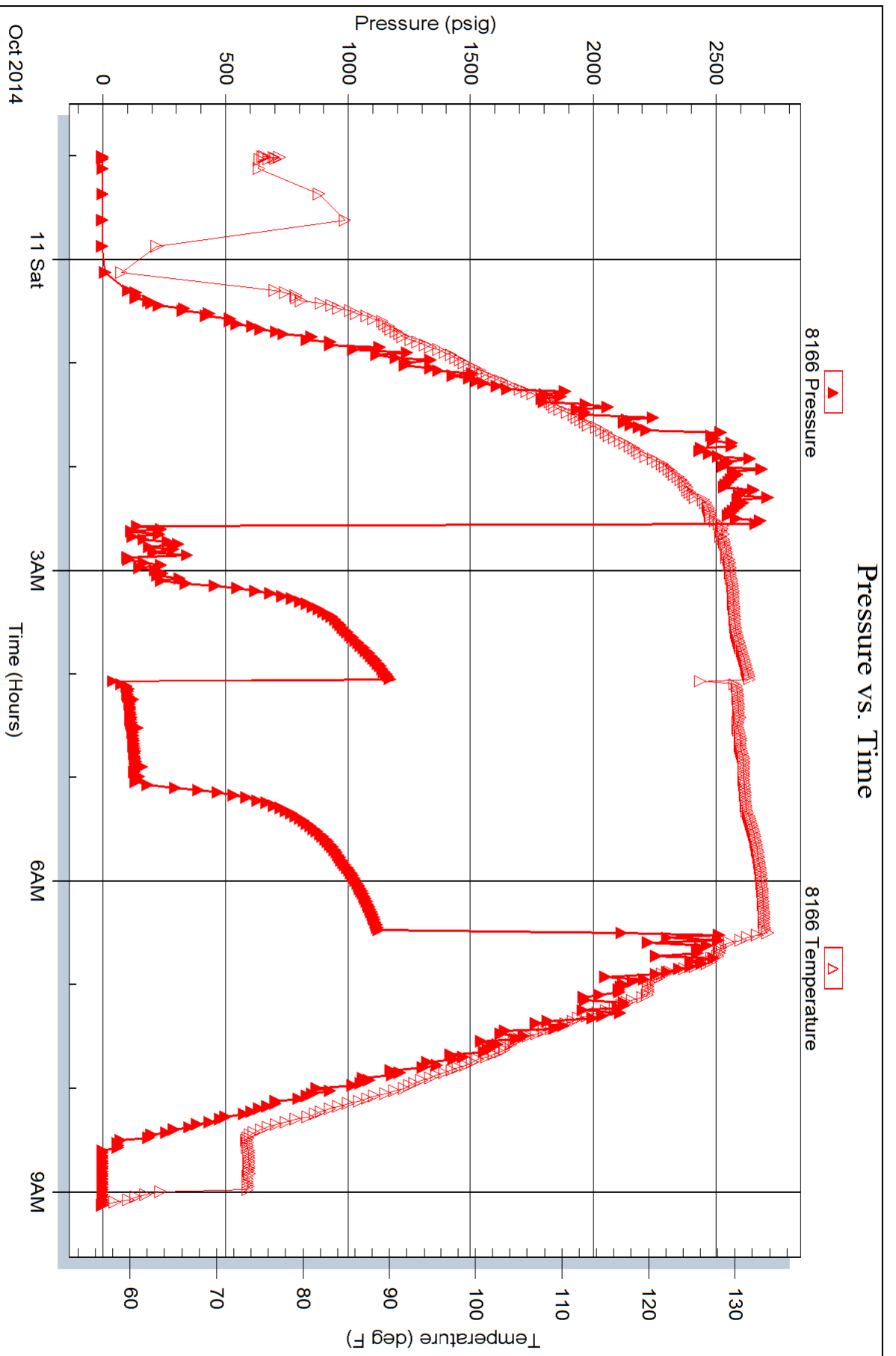
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





# GEOLOGIC REPORT

## DAVID J. GOLDAK

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

Well Name: Southwestern #1-3  
Location: Section 3 - T31S - R41W  
License Number: API: 15-129-21968  
Spud Date: 10 / 03 / 2014  
Surface Coordinates: 670' FSL and 1070' FWL  
SE - NE - SW - SW  
Region: Morton Co., KS  
Drilling Completed: 10 / 11 / 2014  
Bottom Hole Coordinates:  
Ground Elevation (ft): 3388' K.B. Elevation (ft): 3399'  
Logged Interval (ft): 3600' To: 5620' Total Depth (ft): 5620'  
Formation: Mississippian - St Louis  
Type of Drilling Fluid: Chemical - Mud-Co

Printed by MUD.LOG 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: 155 N. Market, Suite 710  
Wichita, Kansas 67202

### General Info

CONTRACTOR: Sterling Drilling, Rig #2

#### BIT RECORD:

No.	Size	Make	Jets	Out	Feet	Hours
1	12-1/4	JZ-HAOTC	3-18s	1670	1670	23.50
2	7-7/8	JZ-HAIP	3-15s	1732	62	1.25
3	7-7/8	Smith-SI616	6-16s	5015	3283	44.75
4	7-7/8	Smith-SI616	6-15s	5620	605	15.00

SURVEYS: 1670'-0.75, 5015'-0.75, 5620'-1.25

#### GENERAL DRILLING & PUMP INFORMATION:

Drilling with 10,000-16,000 lbs on bit and 80-90 RPM.

Drilling with 7 stands of collars (6.25"x2.25"): 429.16'

Pumping 58-65 S/M; 9.9-10.0 B/M; 900-1000 psi at standpipe.

## Daily Status

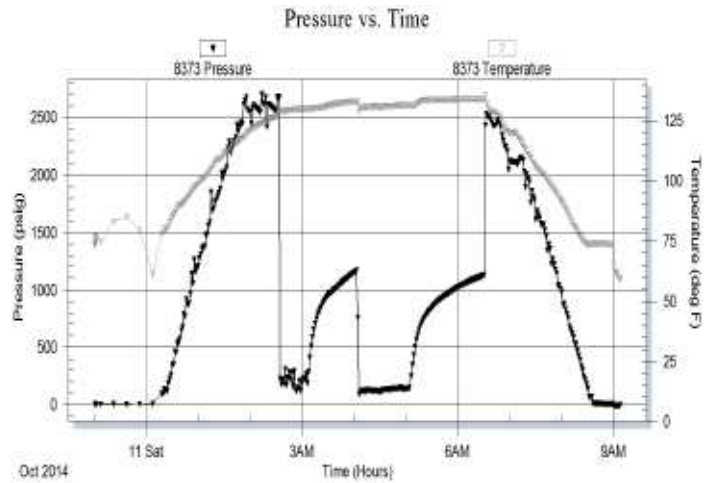
10/03/14 - Spud at 8:45 PM  
 10/04/14 - 681' Drilling  
 10/05/14 - 1,670' CTCH; Set 8-5/8" casing @ 1,665'  
 10/06/14 - 1,732' Bit trip (pull tooth bit; insert PDC bit)  
 10/07/14 - 3,450' Drilling  
 10/08/14 - 4,677' Drilling; Bit trip @ 5,015'  
 10/09/14 - 5,109' CFS  
 10/10/14 - 5,620' CFS; Log well in PM  
 10/11/14 - 5,620' TOH with DST #1; Plug well

**DST #1: 5,320' - 5,620' (Upper Keyes)**  
 30" - 60" - 60" - 90"

**IF: Good blow, building to BOB in 4 minutes**  
**ISI: No blow back**  
**FF: Good blow, building to BOB in 1 minute**  
**FSI: No blow back**

**RECOVERY: 250' Total Fluid, consisting of:**  
 250' Mud (100% M)

**SIP: 1148-1116; FP: 225-228, 118-144; HP: 2675-2502**  
**BHT: 128**



## 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
	Sltyslts
	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
- 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

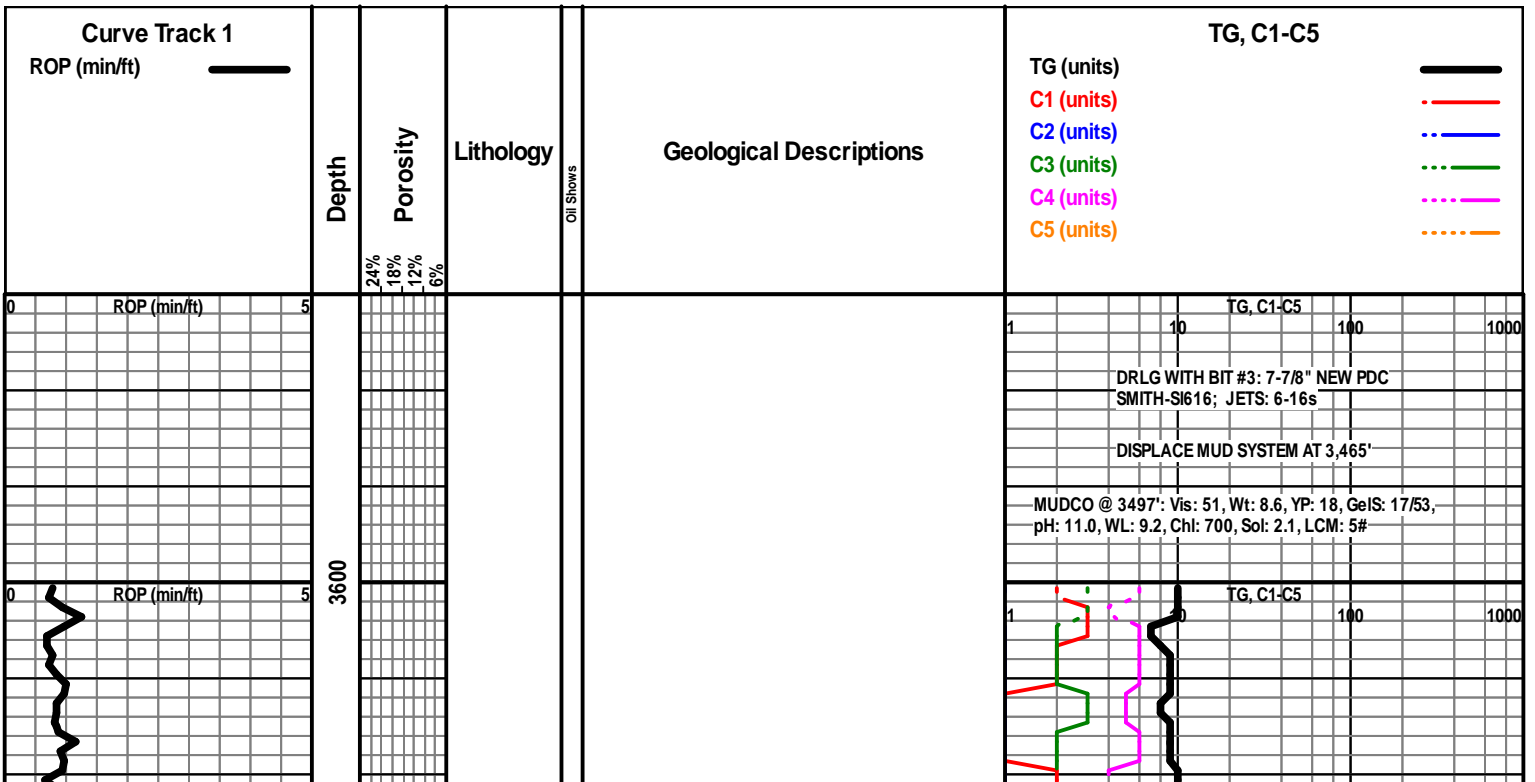
#### INTERVALS

- Core
- Dst

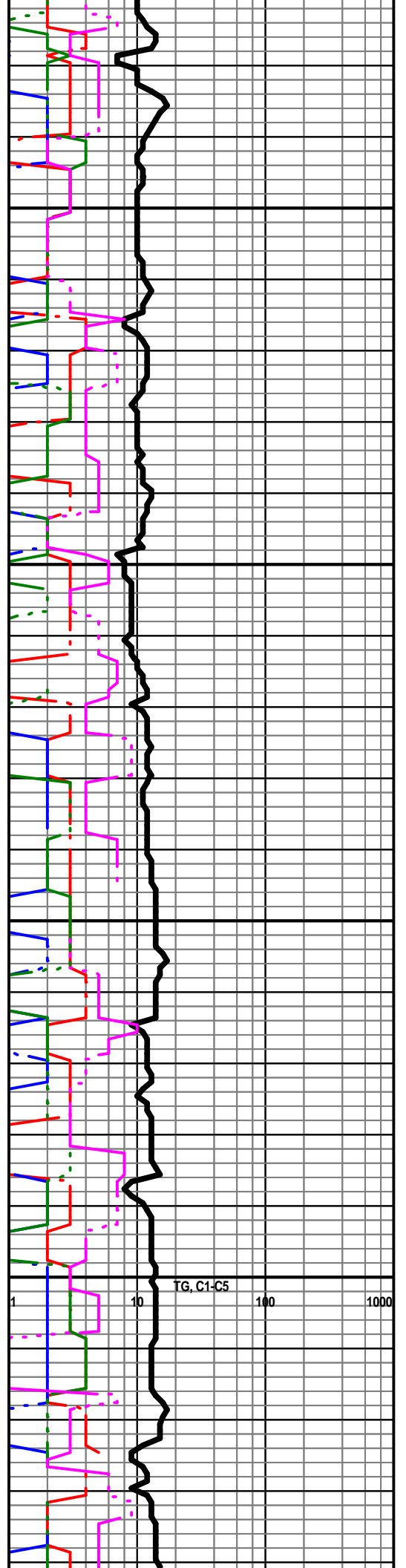
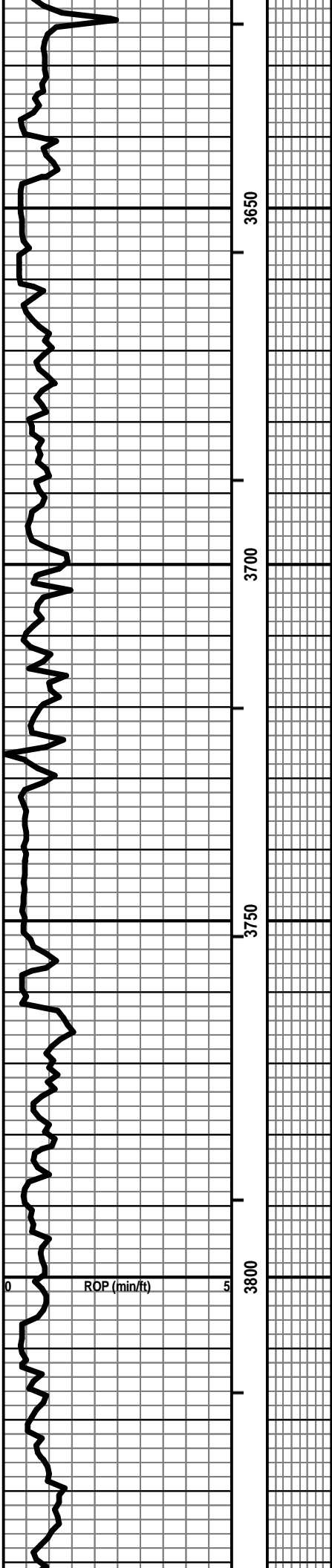
- Dst\_1\_t
- Dst\_1\_b
- Dst

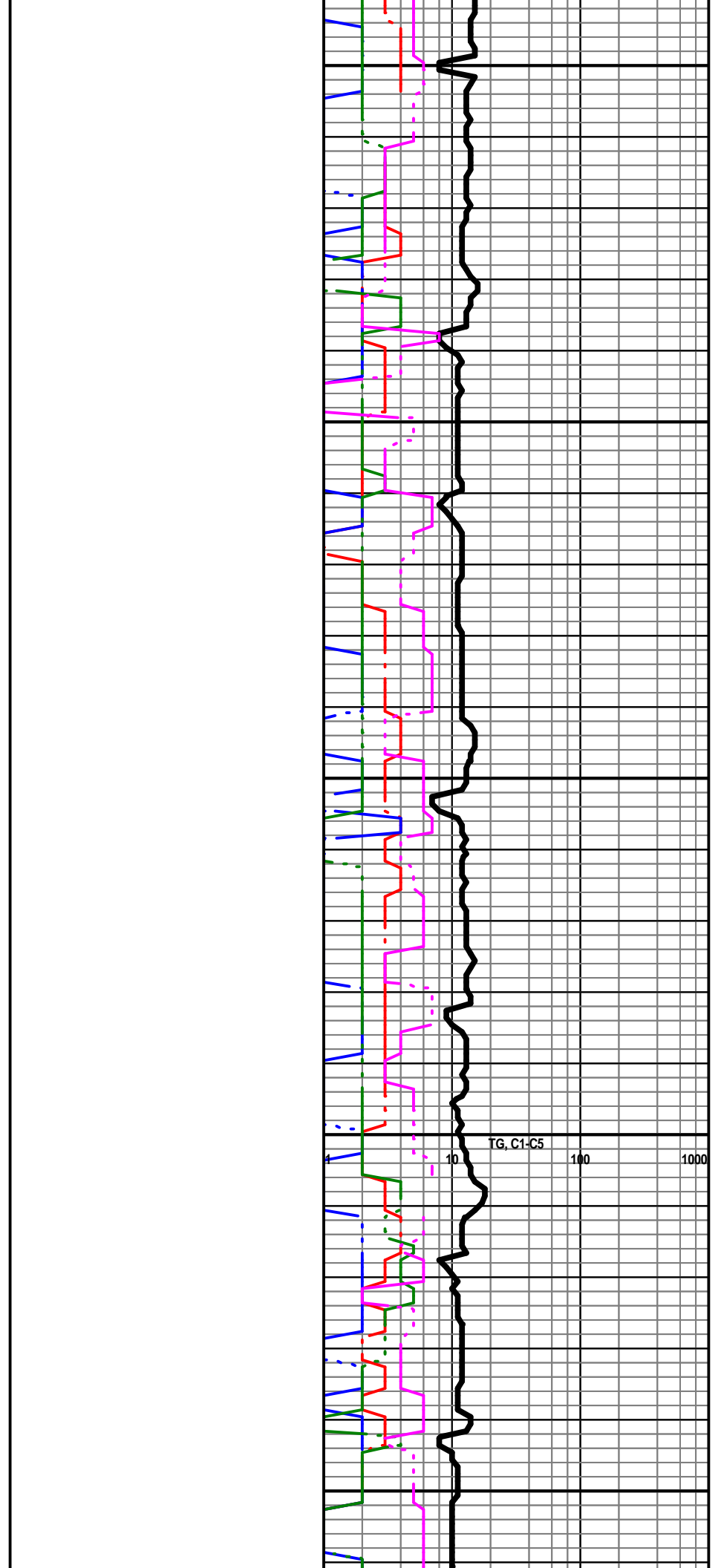
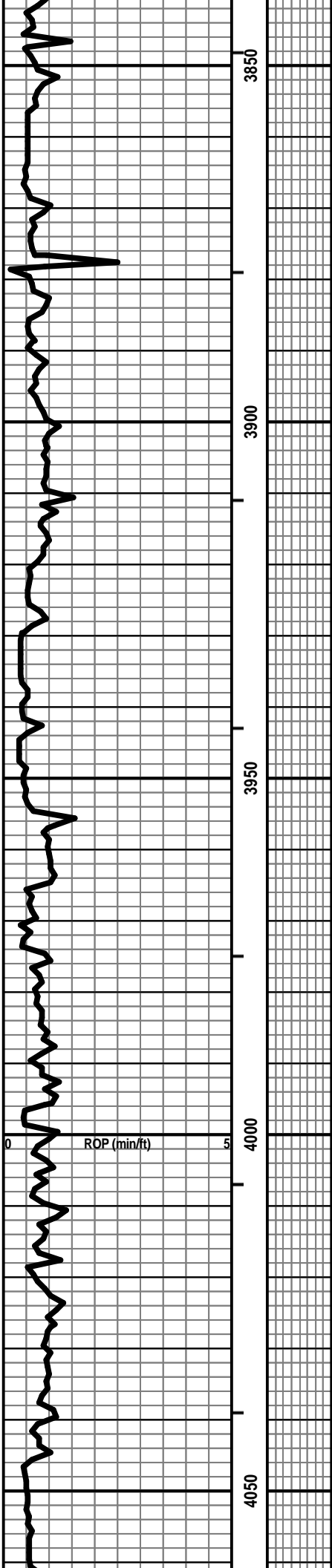
#### EVENTS

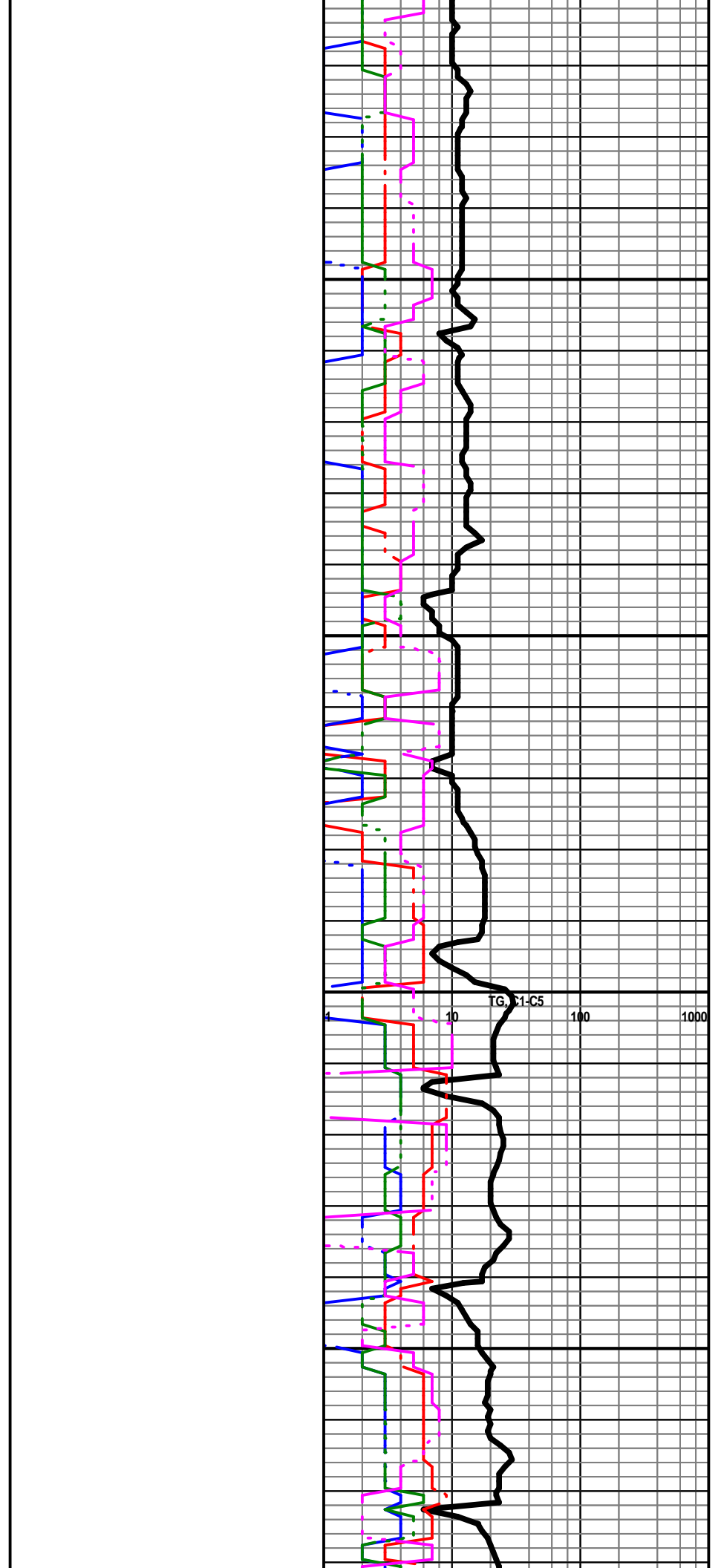
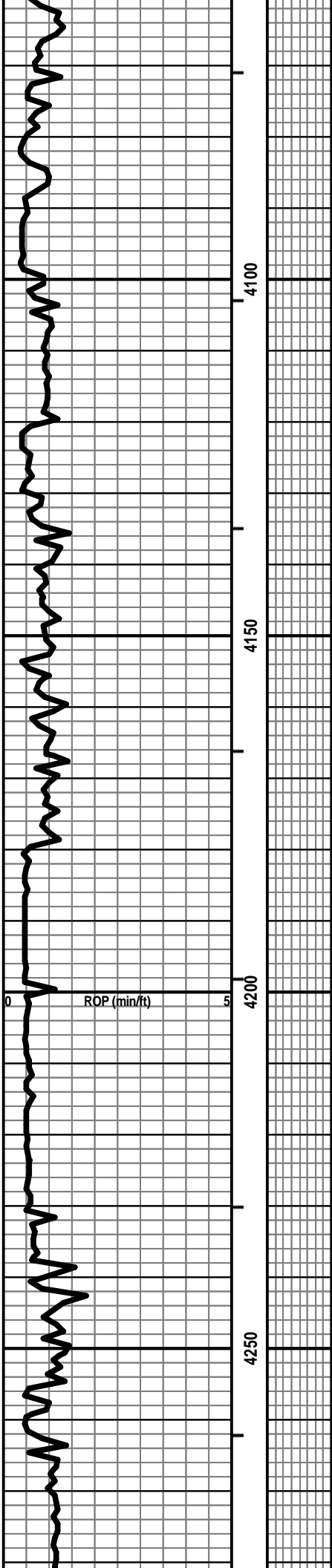
- Rft
- Sidewall
- Conn

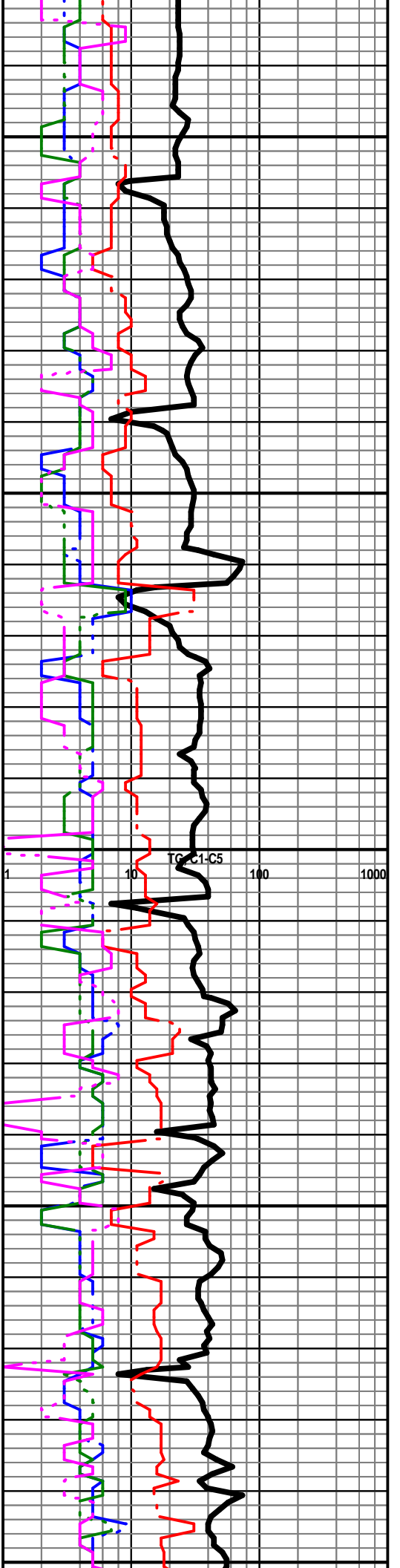
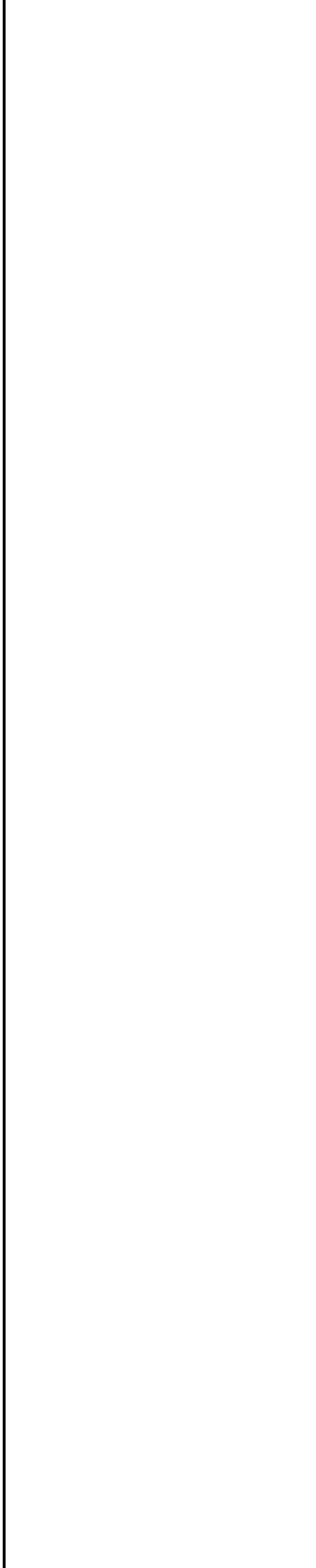
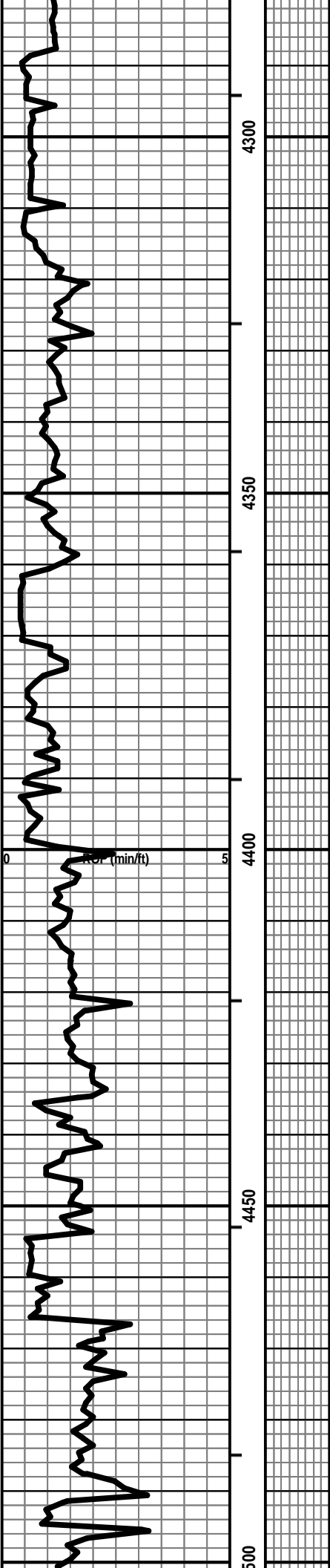


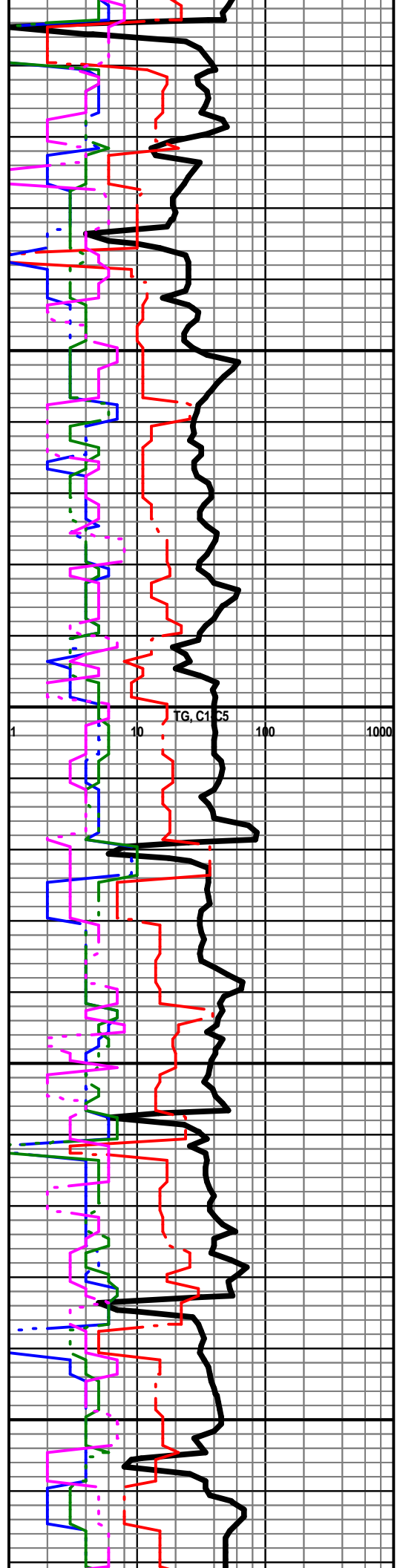
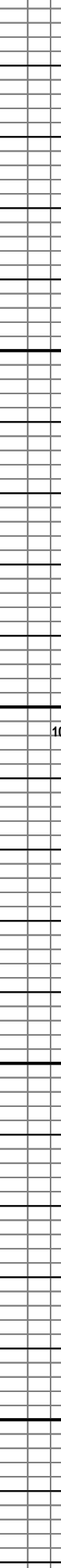
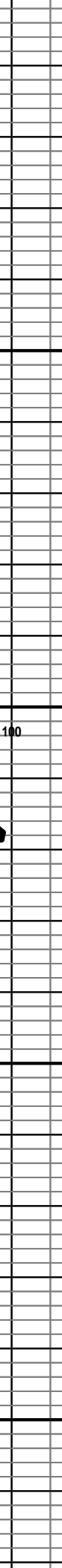
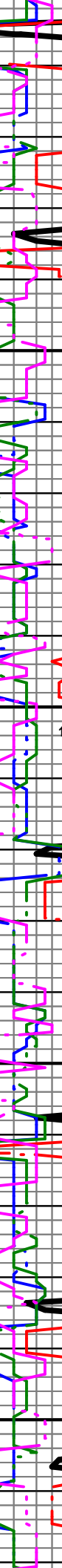
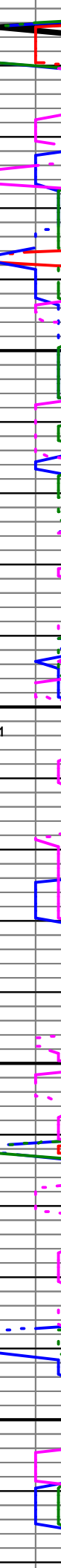
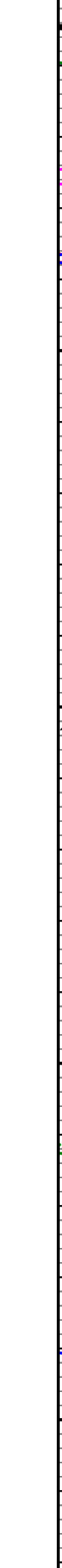
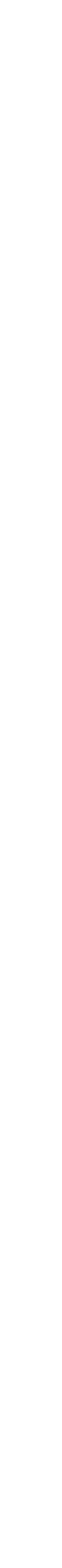
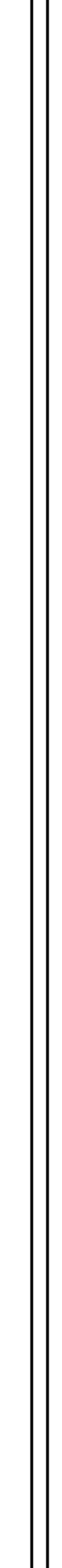
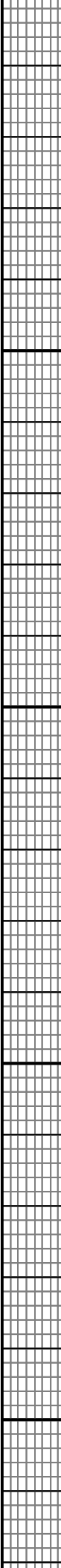
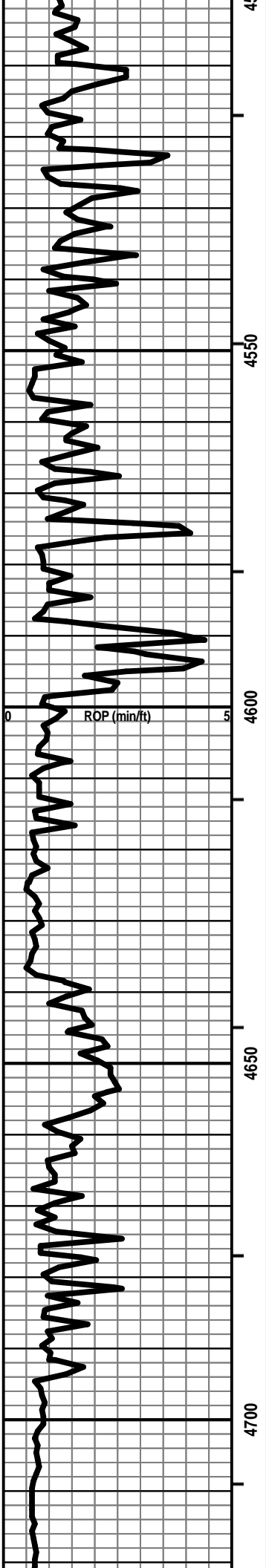


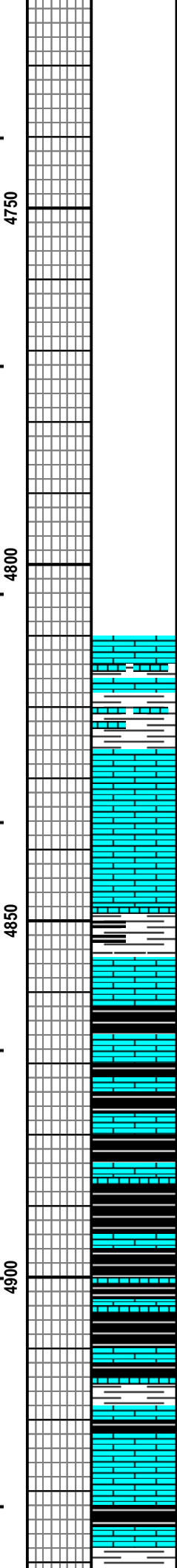
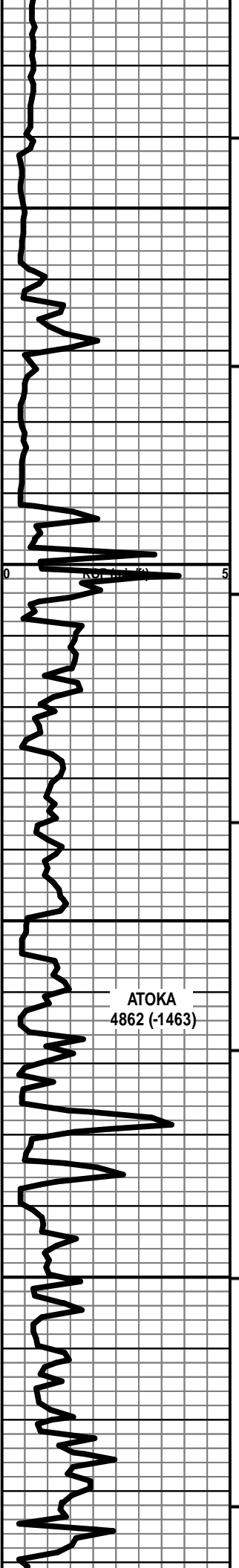












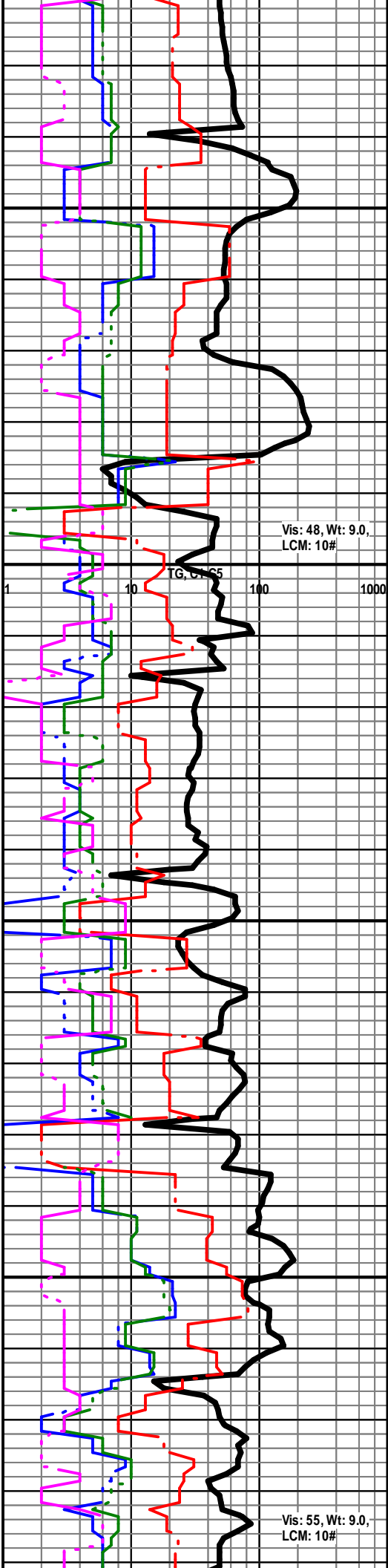
LS - MED / DK GY / TAN / BRN, VF / F XLN, SCAT OOL,  
SCAT SUBCHKY, PRED DNS, NS W/SH - GY/BLK

LS - LT / MED GY, VF / SCAT F XLN, SUBCHKY / CHKY IN  
PT, PRED DNS, NS W/SH - GY / BLK, CARB IN PT

LS - LT / MED GY / TAN / SCAT BRN, VF / F XLN,  
SUBCHKY IN PT / DNS, NS W/SH - BLK, CARB

LS - TAN / GY / SCAT BRN, VF / F XLN, SL FOSS IN PT,  
DNS / SUBCHKY, NS W/SH - DK GY / BLK, CARB

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



Vis: 48, Wt: 9.0,  
LCM: 10#

TG, C, 05

Vis: 55, Wt: 9.0,  
LCM: 10#

ATOKA  
4862 (-1463)

4750

4800

4850

4900

1 10 100 1000

MORROW SH  
4949 (-1550)

4950

LS - TAN / BRN / GY, MOT IN PT, VF / F XLN, SCAT AREN,  
PRED DNS, NS W/TR CHT - LT GY / CRM W/SH - GY /  
BLK, CARB

LS - TAN / BRN, VF / F / SCAT M XLN, SL FOSS IN PT,  
PRED DNS, NS W/SH - DK GY / BLK

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

SH - MED / DK GY / BLK

SH - MED / DK GY / BLK W/TR SLTST - LT / MED GY

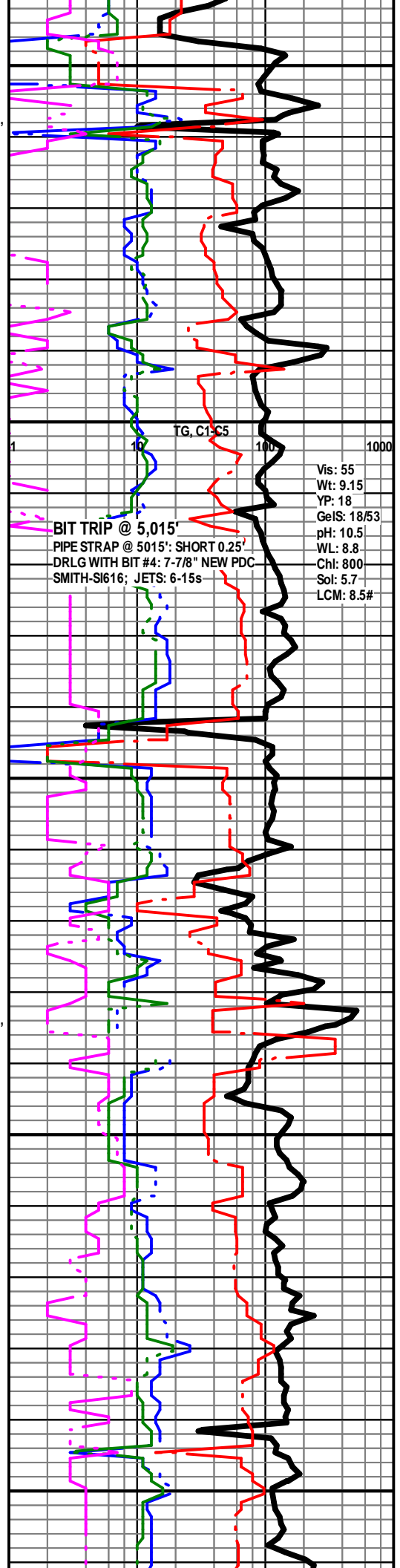
SS - LT GY, SLT / VF QTZ GR, W SRTD, SA / SR, PRED  
SL / SL CALC CEM, MIC, P / F INTGR POR, SCAT G POR,  
SL / MOD FRI IN PT, SL / G SGB, NO ODOR, NO FLUOR,  
NO CUT

SH - DK GY / BLK W/SS - AS ABOVE

SH - DK GY / BLK W/SCAT SS - AS ABOVE W/SCAT  
SLTST - LT / MED GY

SH - DK GY / BLK W/SCAT SLTST - LT / MED GY

LS - TAN / BRN / GY, F / SCAT M XLN, SL FOSS, TR  
AREN, PRED DNS, NS W/SH - DK GY / BLK



BIT TRIP @ 5,015'  
PIPE STRAP @ 5015': SHORT 0.25'  
DRLG WITH BIT #4: 7-7/8" NEW PDC  
SMITH-S1616; JETS: 6-15s

TG, C1, C5

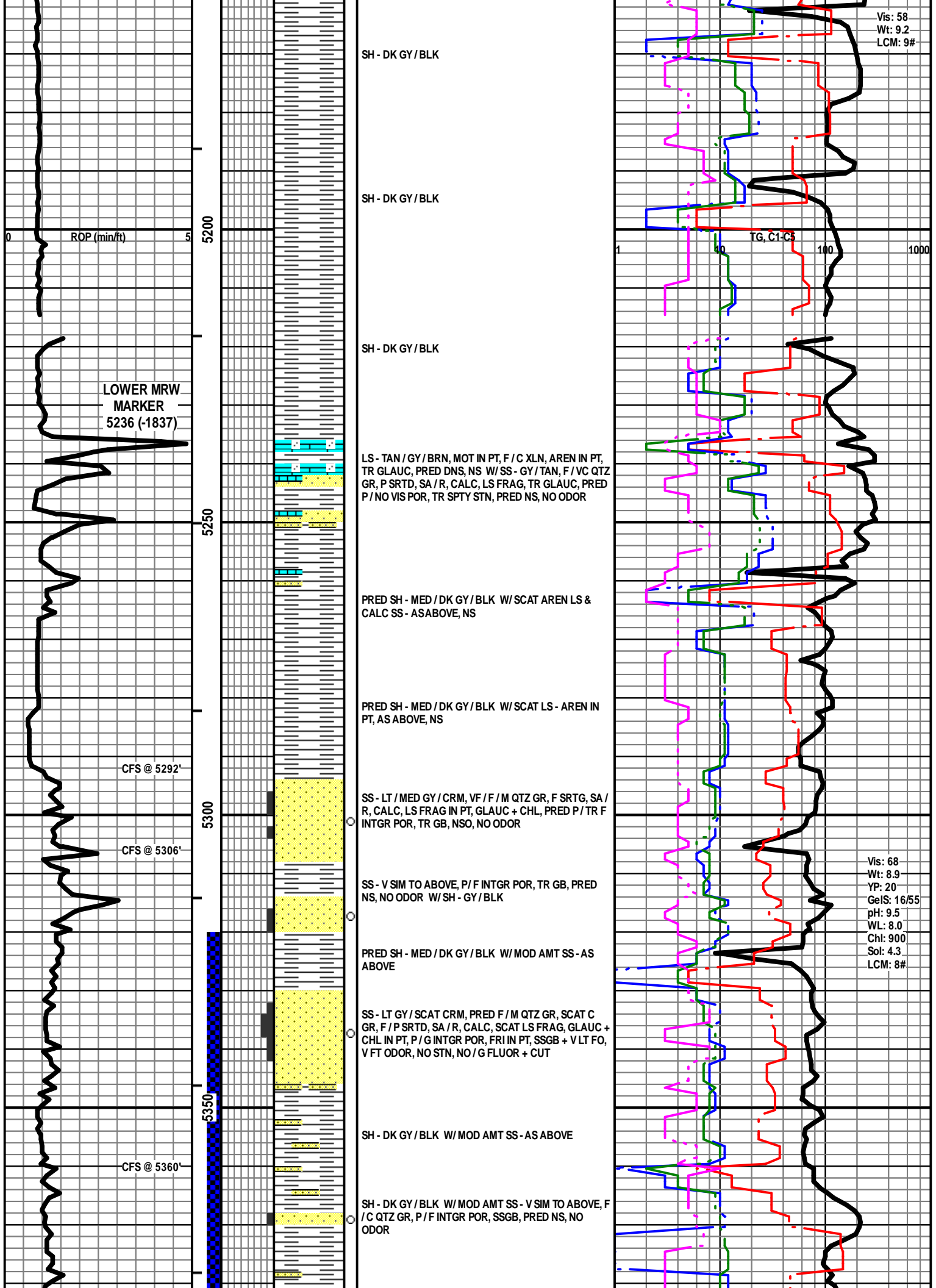
MID MRW SS  
5078 (-1679)

5100

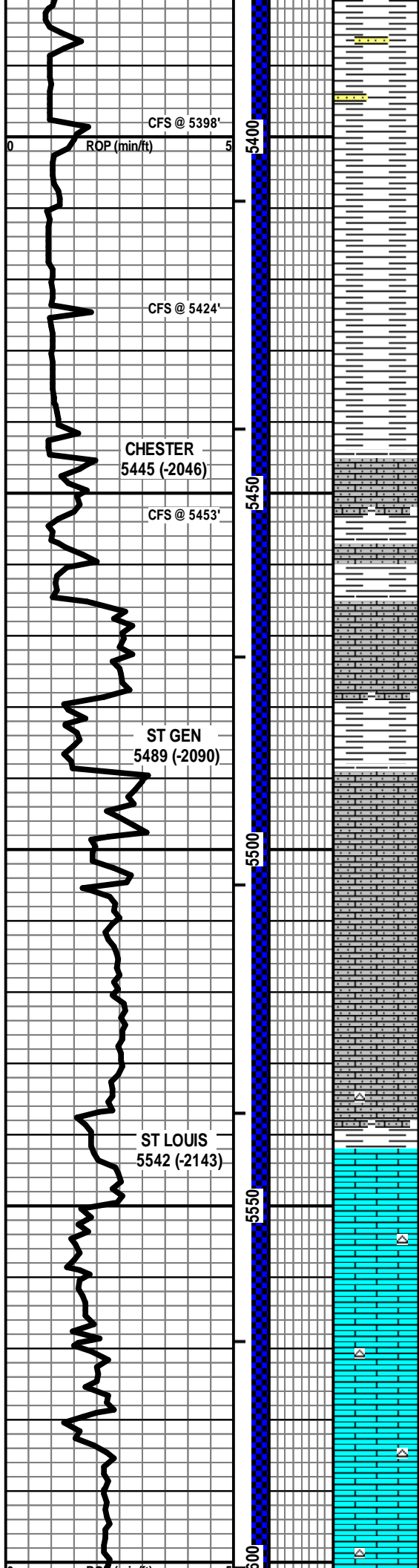
CFS @ 5109'

5150

ROL (mm)







SH - DK GY / BLK W/ SCAT SS - GRN / SCAT GY, VF QTZ GR, W SRTD, SCAT GLAUC, NO VIS POR, NS W/ SS CAVINGS - AS ABOVE

PRED SH - DK GY / BLK

PRED SH - DK GY / BLK

PRED SH - DK GY / BLK

LS - TAN / RED / GY, VF XLN, AREN, VF QTZ GR, SUBCHKY IN PT, PRED DNS, NS

LS - TAN / RED / GY, VF XLN, AREN, VF QTZ GR, SUBCHKY IN PT, PRED DNS, NS

LS - TAN / RED / GY / WHT / SCAT CRM, VF XLN, AREN, VF QTZ GR, SUBCHKY IN PT, PRED DNS, NS

LS - CRM / WHT, VF XLN, AREN, VF QTZ GR, FNLY OOL IN PT, SUBCHKY IN PT, PRED DNS, NS

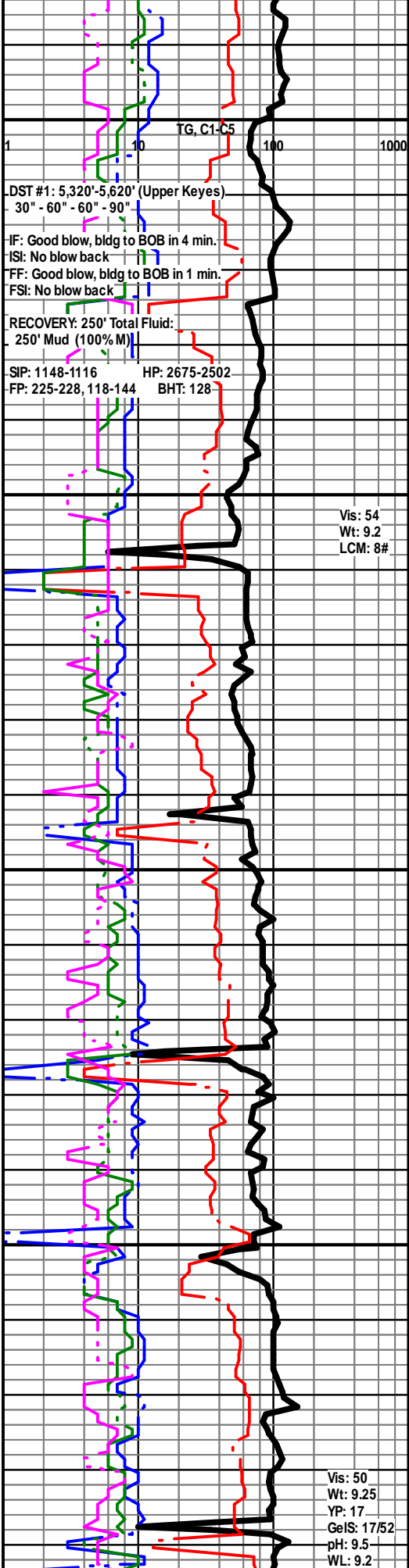
LS - CRM / WHT, VF XLN, AREN, VF QTZ GR, FNLY OOL IN PT, SUBCHKY IN PT, PRED DNS, NS

LS - CRM / WHT, VF XLN, AREN, VF QTZ GR, FNLY OOL IN PT, SUBCHKY IN PT, PRED DNS, NS W/ TR CHT - ORG

LS - CRM / GY, VF / F XLN, SL FOSS + OOL, SCAT SUBCHKY, PRED DNS, NS W/ TR CHT - ORG

LS - CRM / GY, VF / F XLN, OOL IN PT, TR P / PRED NO VIS POR, CHKY IN PT, NS W/ SCAT CHT - LT GY / CRM

LS - AS ABOVE, SCAT FOSS + OOL, SUBCHKY IN PT, PRED DNS, NS W/ SCAT CHT - LT GY / CRM / TAN



DST #1: 5,320'-5,620' (Upper Keyes)  
 30" - 60" - 60" - 90"

IF: Good blow, bldg to BOB in 4 min.  
 IS: No blow back

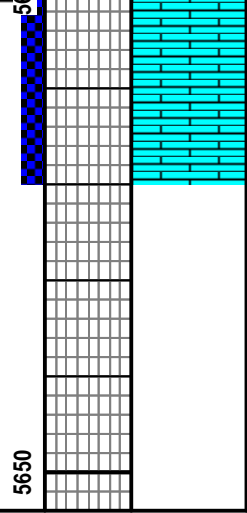
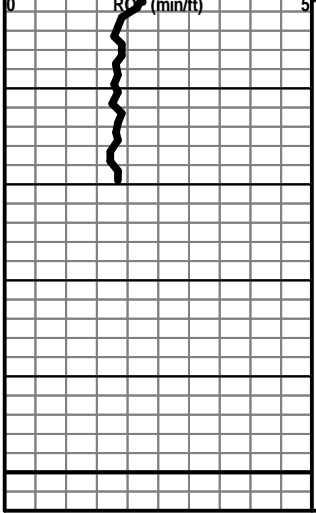
FF: Good blow, bldg to BOB in 1 min.  
 FS: No blow back

RECOVERY: 250' Total Fluid:  
 250' Mud (100% M)

SIP: 1148-1116      HP: 2675-2502  
 FP: 225-228, 118-144      BHT: 128

Vis: 54  
 Wt: 9.2  
 LCM: 8#

Vis: 50  
 Wt: 9.25  
 YP: 17  
 GelS: 17/52  
 pH: 9.5  
 WL: 9.2  
 Chl: 1,100  
 Sol: 6.4  
 LCM: 8#



LS - CRM / GY, VF / F XLN, TR OOL + FOSS, SUBCHKY  
IN PT, PRED DNS, NS W/ TR CHT - AS ABOVE

TOTAL DEPTH 5620 (-2221)

