

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
--	---

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)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
---	---	------------------------------------

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:	
----------------	-------	---------	------------	--



PAGE 1 of 1	CUST NO 1001414	YARD # 1718	INVOICE DATE 08/13/2019
INVOICE NUMBER 93028398			

Pratt (620) 672-1201
 B BENGALIA LAND AND CATTLE CO
 I PO Box: 521008
 L TULSA
 L OK US 74152
 T
 O ATTN: CALVIN HULLUIM FR

J LEASE NAME FARIS #1
 O LOCATION
 B COUNTY FINNEY
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T JOB CONTACT
 E

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
41186709			Net - 30 days	09/12/2019

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
For Service Dates: 08/12/2019 to 08/12/2019				
0041186709				
171819500L Cement-New Well Casing/Pi 08/12/2019 CEMENT SURFACE CASING				
A-Serv Lite	600.00	SK	10.66	6,396.00 T
Class C Cement	200.00	SK	11.89	2,378.00 T
Celloflake	201.00	LB	1.64	329.64 T
Calcium Chloride	1,942.00	LB	0.41	796.22 T
Depth Charge, 1001'-2000'	1.00	HR	615.00	615.00
Light Vehicle Mileage	65.00	MI	2.05	133.25
Heavy Equipment Mileage	195.00	MI	3.28	639.60
Ton Mileage	2,308.00	MI	1.23	2,838.84
800 SK-Blending & Mixing Service Charge	1.00	SK	456.00	456.00
Plug Container Utilization Charge	1.00	EA	102.50	102.50
Cement Densimeter, with chart recorder	1.00	EA	143.50	143.50
Guide Shoe - Regular, 8 5/8" (Blue)	1.00	EA	380.00	380.00
Top Rubber Cement Plug, 8 5/8"	1.00	EA	225.00	225.00
Centralizer, 8 5/8" (Blue)	4.00	EA	90.00	360.00
Service Supervisor Charge	1.00	EA	75.00	75.00
Driver Charge	3.00	EA	35.00	105.00
Standby Cement Pump Unit	2.00	HR	500.00	1,000.00
Flapper Type Insert Float Valves. 8 5/8"	1.00	EA	280.00	280.00

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	17,253.55
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	787.04
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	18,040.59
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		

Well Name: Faris # 1
 County - State: Finny, Kansas
 Type Of Service: Z-42 Cement Surface Casing
 Customer: Bengalia Land and Cattle Company

Date: 8/12/2019
 Location: 35-25S-31W
 RRC #: 19842-6
 Customer's Order #: 1001414

Address: PO Box 521008
 Tulsa Ok., 74152 + 1008

As a consideration, the above named Customer agrees to pay Basic Energy Services in accord with the rates and terms stated in Basic Energy Services current price lists. Invoices are payable NET 30 (SEE 10.2) after date of invoice. Upon Customer's default in payment of Customers account by such date, Customer agrees to pay interest thereon after default at 18% per annum. In the event it becomes necessary to employ an attorney to enforce collection of said account, Customer agrees to pay all the collection costs and attorney fees. These terms and conditions shall be governed by the laws of the state where services are performed or equipment or materials are furnished.

Basic Energy Services, warrants only title to the products, supplies and materials and that the same are free from defects in workmanship. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Basic Energy Services, liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, product liability, breach of warranty or otherwise) arising out of the sale or use of any products, supplies, or materials upon their return to Basic Energy Services, is expressly limited to the replacement of such products, supplies or materials or, at Basic Energy Services, option, to the allowance to the Customer of credit for the cost of such items. In no event shall Basic Energy Services be liable for special, indirect, punitive or consequential damages.

CODE	QTY	UOM	DESCRIPTION	PRICE	TOTAL
BC119	600	SK	A-Serv Lite		
BC101	200	SK	Class C Cement	26.00	15600.00
				29.00	5800.00
CC102	201	LB	Celloflake		



PAGE	CUST NO	YARD #	INVOICE DATE
1 of 1	1001414	1718	08/13/2019
INVOICE NUMBER			
93028398			

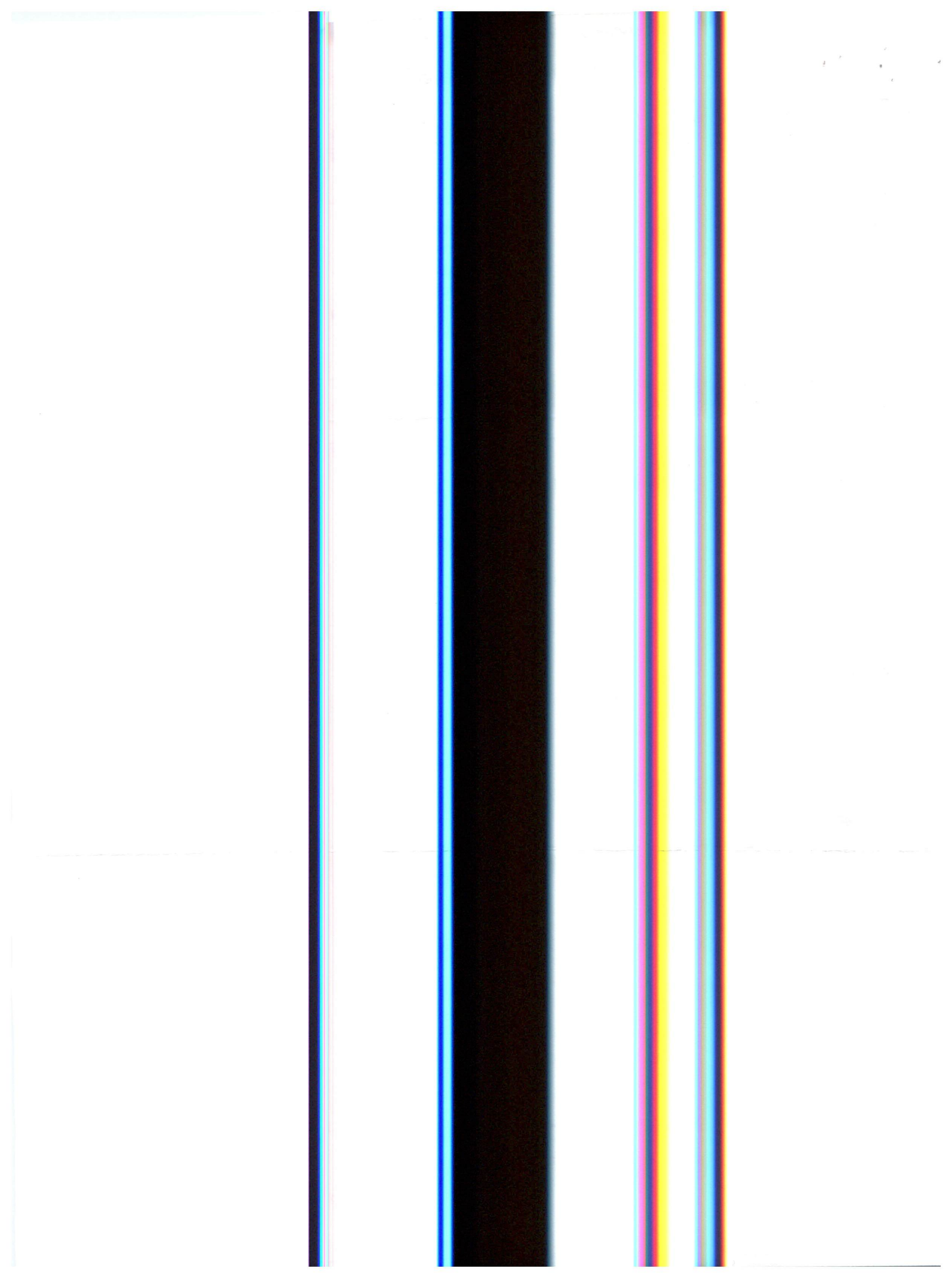
Pratt (620) 672-1201
 B BENGALIA LAND AND CATTLE CO
 I PO Box: 521008
 L TULSA
 L OK US 74152
 T
 O ATTN: CALVIN HULLUIM FR

J LEASE NAME FARIS #1
 O LOCATION
 B COUNTY FINNEY
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T JOB CONTACT
 E

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
41186709			Net - 30 days	09/12/2019

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 08/12/2019 to 08/12/2019</i>				
0041186709				
171819500L Cement-New Well Casing/Pi 08/12/2019 CEMENT SURFACE CASING				
A-Serv Lite	600.00	SK	10.66	6,396.00 T
Class C Cement	200.00	SK	11.89	2,378.00 T
Celloflake	201.00	LB	1.64	329.64 T
Calcium Chloride	1,942.00	LB	0.41	796.22 T
Depth Charge, 1001'-2000'	1.00	HR	615.00	615.00
Light Vehicle Mileage	65.00	MI	2.05	133.25
Heavy Equipment Mileage	195.00	MI	3.28	639.60
Ton Mileage	2,308.00	MI	1.23	2,838.84
800 SK-Blending & Mixing Service Charge	1.00	SK	456.00	456.00
Plug Container Utilization Charge	1.00	EA	102.50	102.50
Cement Densimeter, with chart recorder	1.00	EA	143.50	143.50
Guide Shoe - Regular, 8 5/8" (Blue)	1.00	EA	380.00	380.00
Top Rubber Cement Plug, 8 5/8"	1.00	EA	225.00	225.00
Centralizer, 8 5/8" (Blue)	4.00	EA	90.00	360.00
Service Supervisor Charge	1.00	EA	75.00	75.00
Driver Charge	3.00	EA	35.00	105.00
Standby Cement Pump Unit	2.00	HR	500.00	1,000.00
Flapper Type Insert Float Valves. 8 5/8"	1.00	EA	280.00	280.00

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	17,253.55
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	787.04
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	18,040.59
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		





1700 S. Country Estates Road
 Liberal, KS 67901
 PH (620)-624-2277 FAX (620) 624-2280

SERVICE ORDER - 1718 19500 L

Date: 8/12/2019

17-60

Well Name: Faris # 1
 County - State: Finny, Kansas
 Type Of Service: Z-42 Cement Surface Casing
 Location: 35-25S-31W
 RRC #: 19842-6
 Customer's Order #: 1001414
 Customer: Bengalla Land and Cattle Company

Address: PO Box 521008
 Tulsa Ok., 74152 + 1008

As a consideration, the above named Customer agrees to pay Basic Energy Services in accord with the rates and terms stated in Basic Energy Services current price lists. Invoices are payable NET 30 (SEE 10.2) after date of invoice. Upon Customer's default in payment of Customers account by such date, Customer agrees to pay interest thereon after default at 18% per annum. In the event it becomes necessary to employ an attorney to enforce collection of said account, Customer agrees to pay all the collection costs and attorney fees. These terms and conditions shall be governed by the laws of the state where services are performed or equipment or materials are furnished.

Basic Energy Services, warrants only title to the products, supplies and materials and that the same are free from defects in workmanship. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Basic Energy Services, liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, product liability, breach of warranty or otherwise) arising out of the sale or use of any products, supplies, or materials upon their return to Basic Energy Services, is expressly limited to the replacement of such products, supplies or materials or, at Basic Energy Services, option, to the allowance to the Customer of credit for the cost of such items. In no event shall Basic Energy Services be liable for special, indirect, punitive or consequential damages.

CODE	QTY	UOM	DESCRIPTION	PRICE	TOTAL
BC119	600	SK	A-Serv Lite	26.00	15600.00
BC101	200	SK	Class C Cement	29.00	5800.00
CC102	201	LB	Celloflake	4.00	804.00
CC109	1942	LB	Calcium Chloride	1.00	1942.00
CC2	1	HR	Depth Charge, 1001'-2000'	1500.00	1500.00
ME101	65	MI	Light Vehicle Mileage	5.00	325.00
ME102	195	MI	Heavy Equipment Mileage	8.00	1560.00
TM	2308	MI	Ton Mileage	3.00	6924.00
CE240	800	SK	Blending & Mixing Service Charge	1.40	1120.00
CE504	1	EA	Plug Container Utilization Charge	250.00	250.00
CE505	1	EA	Cement Densimeter, with chart recorder	350.00	350.00
CF253	1	Ea	Guide Shoe - Regular, 8 5/8" (Blue)	380.00	380.00
CF1453	1	Ea	Flapper Type Insert Float Valves, 8 5/8" (Blue)	280.00	280.00
CF105	1	Ea	Top Rubber Cement Plug, 8 5/8"	225.00	225.00
CF1753	4	Ea	Centralizer, 8 5/8" (Blue)	90.00	360.00
BE143	1	Ea	Supervisor	75.00	75.00
BE144	3A	EA	Driver	35.00	140.00
CE402	2	HR	Standby Cement Pump Unit	500.00	1000.00
				Book Total:	\$38,635.00
				Taxes:	
				Disc. Price:	\$17,288.55

105.00

38600.00

17253.55

PUMP TRUCK NUMBER: 38119, 19842
 DRIVER: Jesse Paxton
 BASIC ENERGY SERVICES

THIS JOB WAS SATISFACTORILY COMPLETED YES NO
 OPERATION OF EQUIPMENT WAS SATISFACTORY YES NO
 PERFORMANCE OF PERSONEL WAS SATISFACTORY YES NO
 Donald Earl Ochamperugh
 CUSTOMER OR HIS AGENT

Customer Comments or Concerns:
 Sam Elser / Jose Moranding

105



Liberal Yard #1717 - Phone 620-624-2277 - 1700 S. Country Estates Road, Liberal KS 67901

PRESSURE PUMPING Job Log

Customer:	Bengalla Land and Cattle Company	Cement Pump No.:	38119, 19842 6Hrs	Operator TRK No.:	86531 Angel
Address:	PO Box 521008	Ticket #:	1718 19500 L	Bulk TRK No.:	19827 Sam 60464 Sam
City, State, Zip:	Tulsa Ok., 74152 + 1008	Job Type:	Z-42 Cement Surface Casing		
Service District:	1718 - Liberal, ks	Well Type:			
Well Name and No.:	Faris # 1	Well Location:	35-25S-31W	County:	Finny State: Kansas

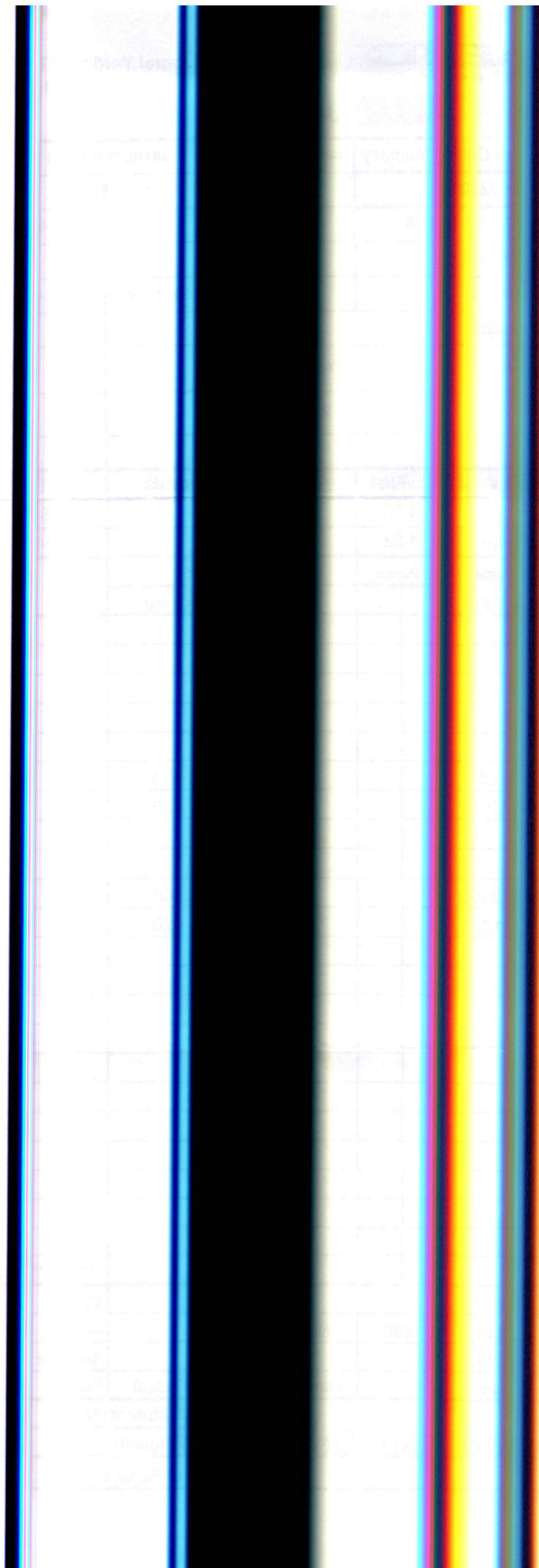
Type of Cmt	Sacks	Additives	Truck Loaded On	
A - Serv Lite	600	3%cc, 1/4# polyflake	19827 Sam	Front Back
Premuim Plus	200	2%cc, 1/4# Poly	60464 Sam	Front Back
				Front Back

Lead/Tail:	Weight #1 Gal.	Cu/Ft/sk	Water Requirements	CU. FT.	Man Hours / Personnel
Lead:	12.5	1.98	10.77	1188	Man Hours: 60
Tail:	14.9	1.32	6.18	264	# of Men on Job: 3

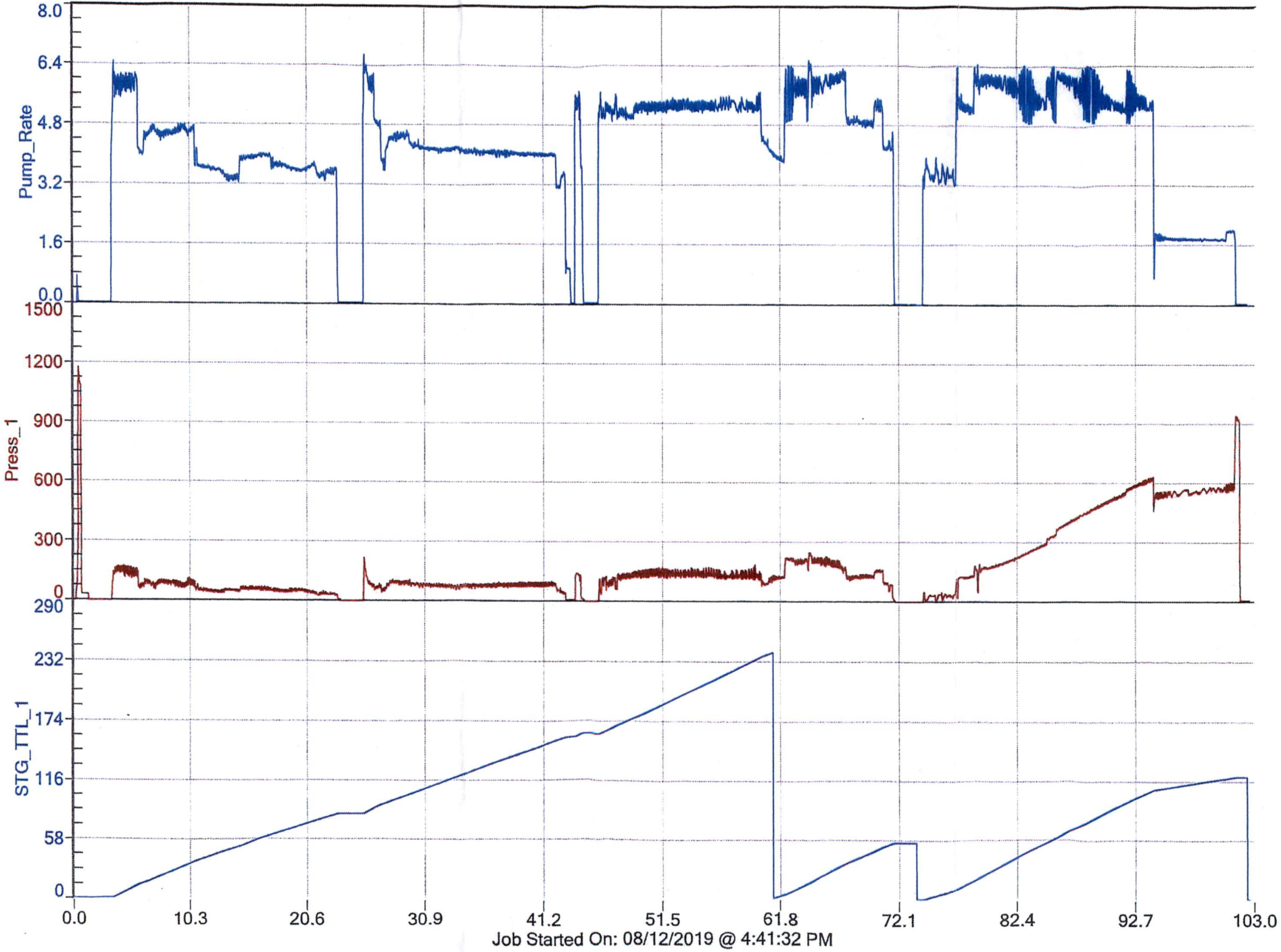
Time (am/pm)	(BPM)	Volume (BBLs)	Pumps		Pressure(PSI)		Description of Operation and Materials
			T	C	Tubing	Casing	
7:00							On Location Ready @ 8am
7:15							Safety Meeting
12:30 PM							Ran Casing In Hole
1:00 PM							Rig Up
4:45 PM							Pressure Test to 1500psi
16:46	5	211.5				150	Pump Lead 600sx
17:43	5	47.01				120	Pump Tail 200sx
5:54 PM							Shut Down -- Drop Plug
17:59							Displacement
	6	10thur100				500	
	2	111.9				620	Land Plug To 940psi
6:29							Release Back ----- Float Held
							Job Completed
							Thank You
							No Charge For 6 Hrs On Location
							Charged only 2 Hrs Additional Hrs
							***** 120 BBL Cement To Pit *****

Size Hole	12.25"	Depth			TYPE	Plug Container
Csg.	8 5/8" 243	Depth	1800'	New / Used	Packer	Depth
Shoe jt	42'	Depth			Retainer	Depth
Top Plugs		Type		Landing PSI	447.3psi	Perfs

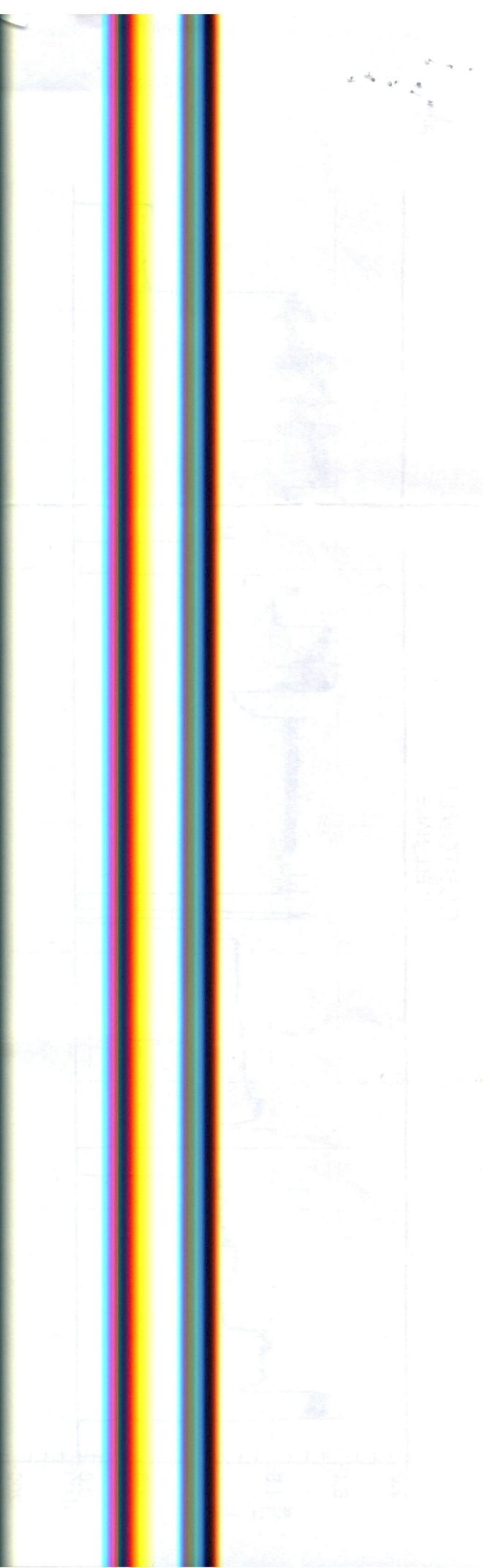
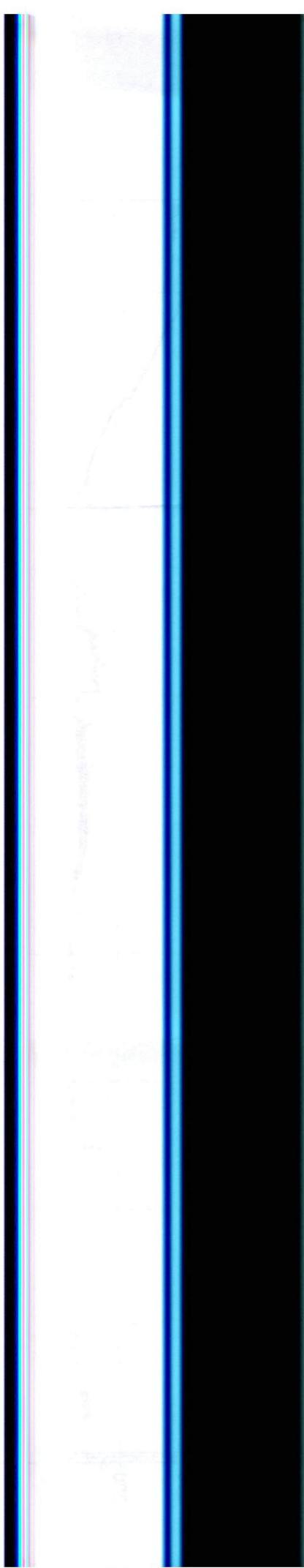
Customer Signature: Donald Earl Ochampaud Basic Representative: Angel Echevarria
 Basic Signature: [Signature]
 Date of Service: 8/12/2019



CUSTOMER
WELL_NAME



Job Started On: 08/12/2019 @ 4:41:32 PM



Company	Bengalia Land & Cattle Company	Company	Bengalia Land & Cattle Company
Well	Faris # 2-35	Well	Faris # 2-35
Field	WC	Field	WC
County	Finney	County	Finney
State	Kansas	State	Kansas
Location: 2,245' FSL & 1,525' FEL (NAD83) Lat: 37.742536811; Long: -100.675762827		API #: 15-055-22522	
SEC	35	TWP	26S
Permanent Datum	GL	RGE	31W
Log Measured From	KB	Elevation 2,810' ft. 16 ft. above perm. datum	
Drilling Measured From	KB	Other Services LDL-CNL MEL-MAS BHP - IAT	

Date	8/26/2019
Run Number	One
Depth Driller	6,200'
Depth Logger	6,180'
Bottom Logged Interval	6,178'
Top Log Interval	1,822'
Casing Driller	8 5/8" @ 1822'
Casing Logger	1822'
Bit Size	7 7/8"
Type Fluid in Hole	WBM
Density / Viscosity	9.5 PPG / 63S
PH / Fluid Loss	N/A / 7.2CI
Source of Sample	Flowline
Rm @ Meas. Temp	0.85 @ 75°F
Rmf @ Meas. Temp	0.638 @ 75°F
Rmc @ Meas. Temp	1.063 @ 75°F
Source of Rmf / Rmc	Calculated
Rm @ BHT	0.497 @ 133°F
Time Circulation Stopped	12:00
Time Logger on Bottom	18:00
Maximum Recorded Temperature	133°F
Equipment Number	10002
Location	OKC
Recorded By	M. Avitia
Witnessed By	Curtis Covey

<<< Fold Here >>>

Equipment and Log Data

Service Order:

Gamma		Density		Neutron		Sonic		IAT/DLL	
Run No.	One	Run No.	One	Run No.	One	Run No.	One	Run No.	One
Serial No.	15939	Serial No.	129B	Serial No.	10071	Serial No.	10037	Serial No.	10106
O.D.	3.375 in.	Source No.	50129B	Source No.	87624G	Centralizers	2	Standoffs	1 @ 0.5
		O.D.	4.5 in.	O.D.	3.375 in.	O.D.	3.375 in.	O.D.	3.875 in.

Logging Pass Data

General			Gamma		Density			Neutron			Sonic			IAT/DLL	
			Scales		Scales			Scales			Scales			Scales	
Run	Depths		Left	Right	Left	Right	Matrix	Left	Right	Matrix	Left	Right	Matrix	Left	Right
One	TD	CSG	0	150	0.3	-0.1	2.71	0.3	-0.1	Lime	0.3	-0.1	Lime	0.2	2000

All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

Tools ran as per diagram
 Density is presented on a 2.71 g/cc Matrix, Neutron is presented on a Limestone Matrix
 Additional Pass in Sandstone and Dolomite Matrix is presented
 Chlorides reported at 4000 ppm
 Annular volume computed using 5.5" Casing

Washouts, tight pulls, and borehole rugosity affect data quality and repeatability
 Tight spots while running in hole from 2400' to 2600'
 Possible separated casing around casing depth.
 Log considered first run in well, corrected +1ft stretch

YOUR CREW TODAY:

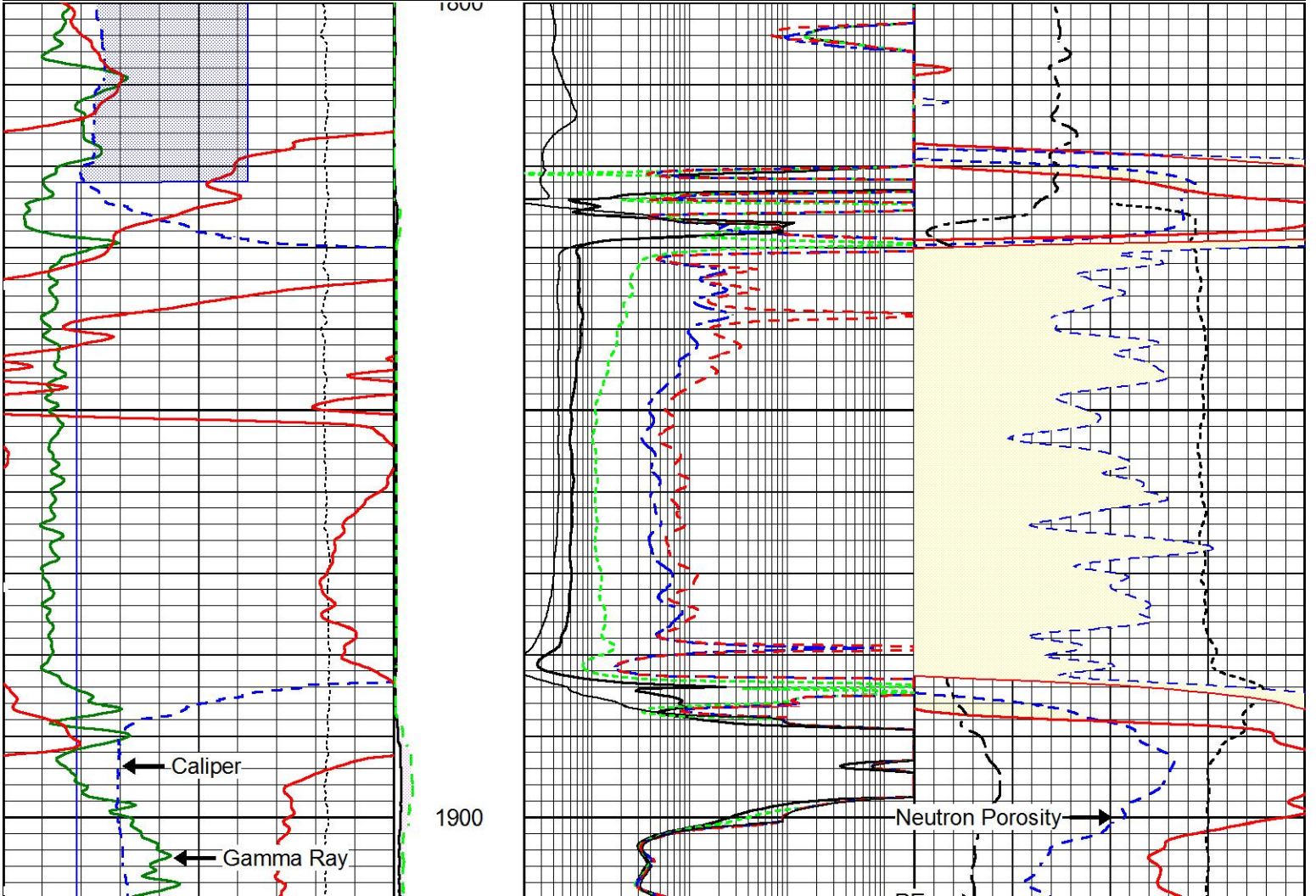
THANK YOU FOR CHOOSING ALLIED HORIZONTAL WIRELINE. OKLAHOMA CITY. (405) 445-7135.

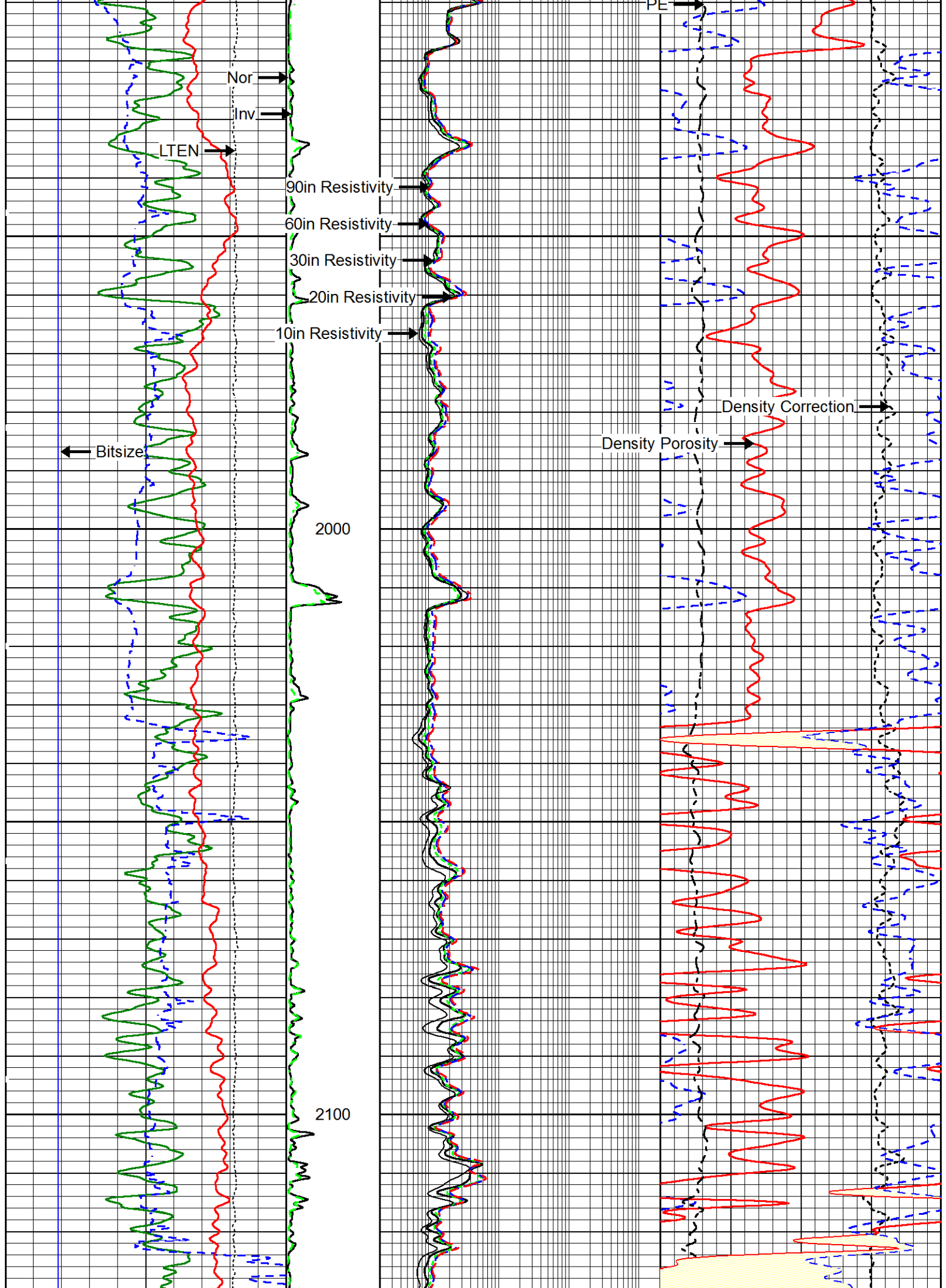


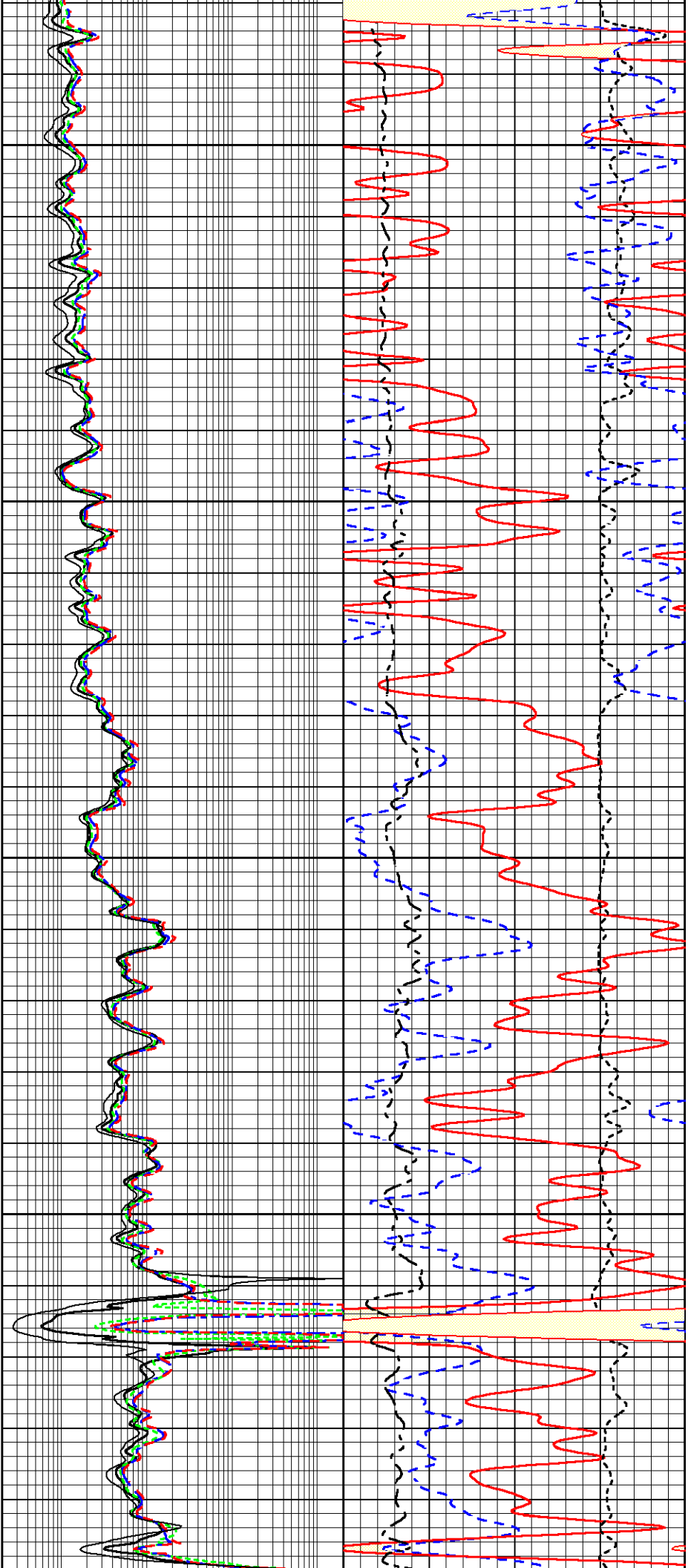
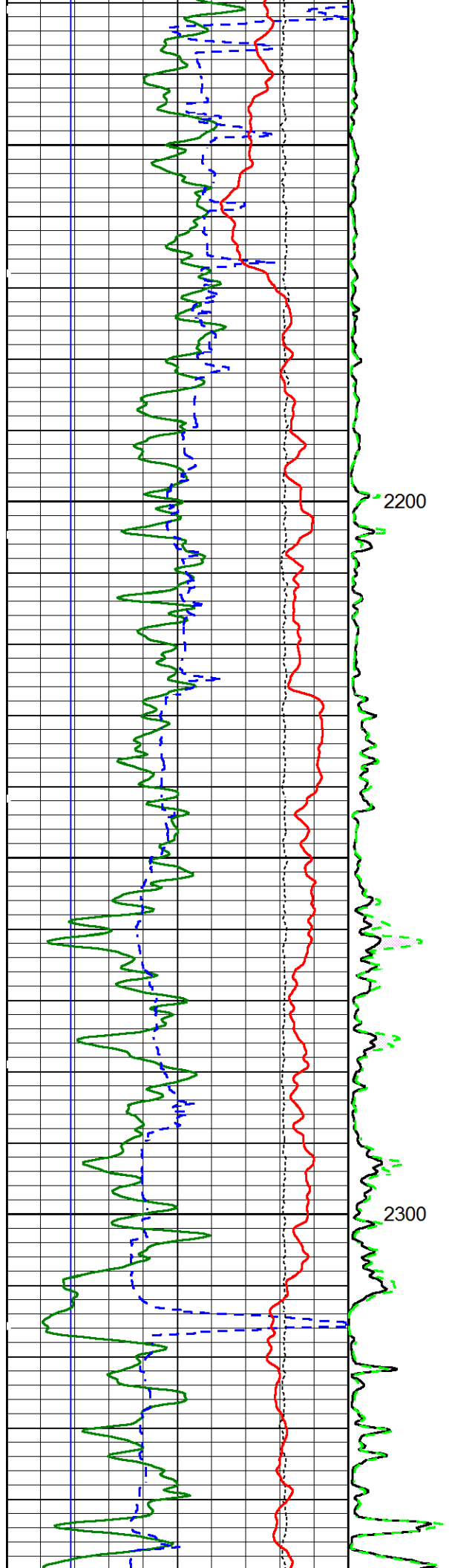
Main Pass

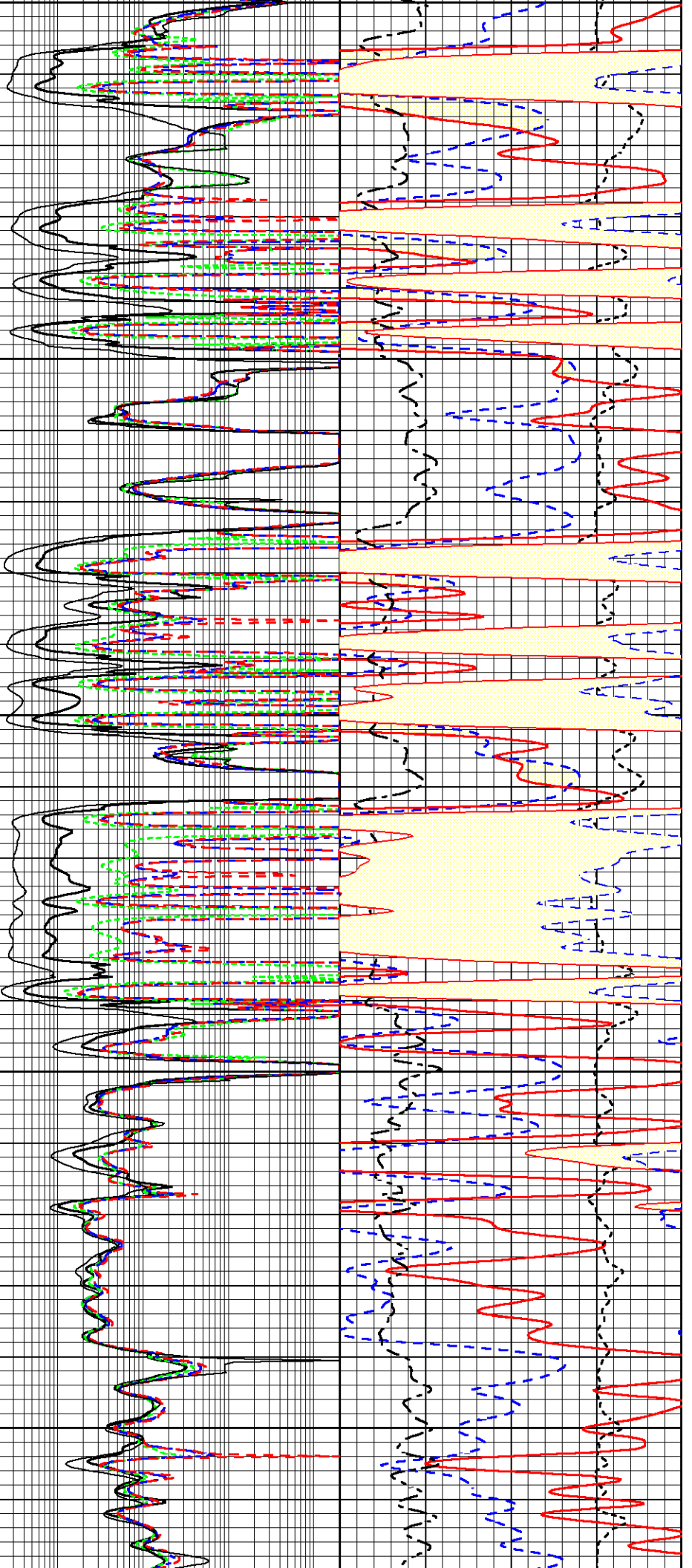
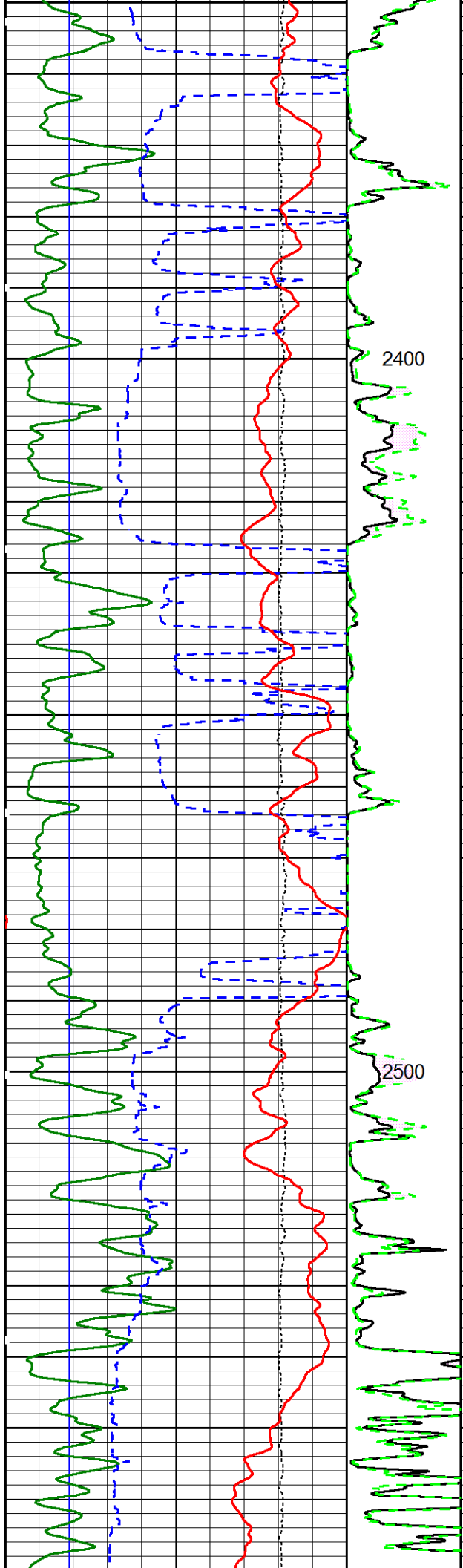
Database File f:\bengalia-faris#2-35\bengalia-faris2-35.db
 Dataset Pathname Main-Cut
 Presentation Format OKC-3C~1
 Dataset Creation Mon Aug 26 21:56:22 2019
 Charted by Depth in Feet scaled 1:240

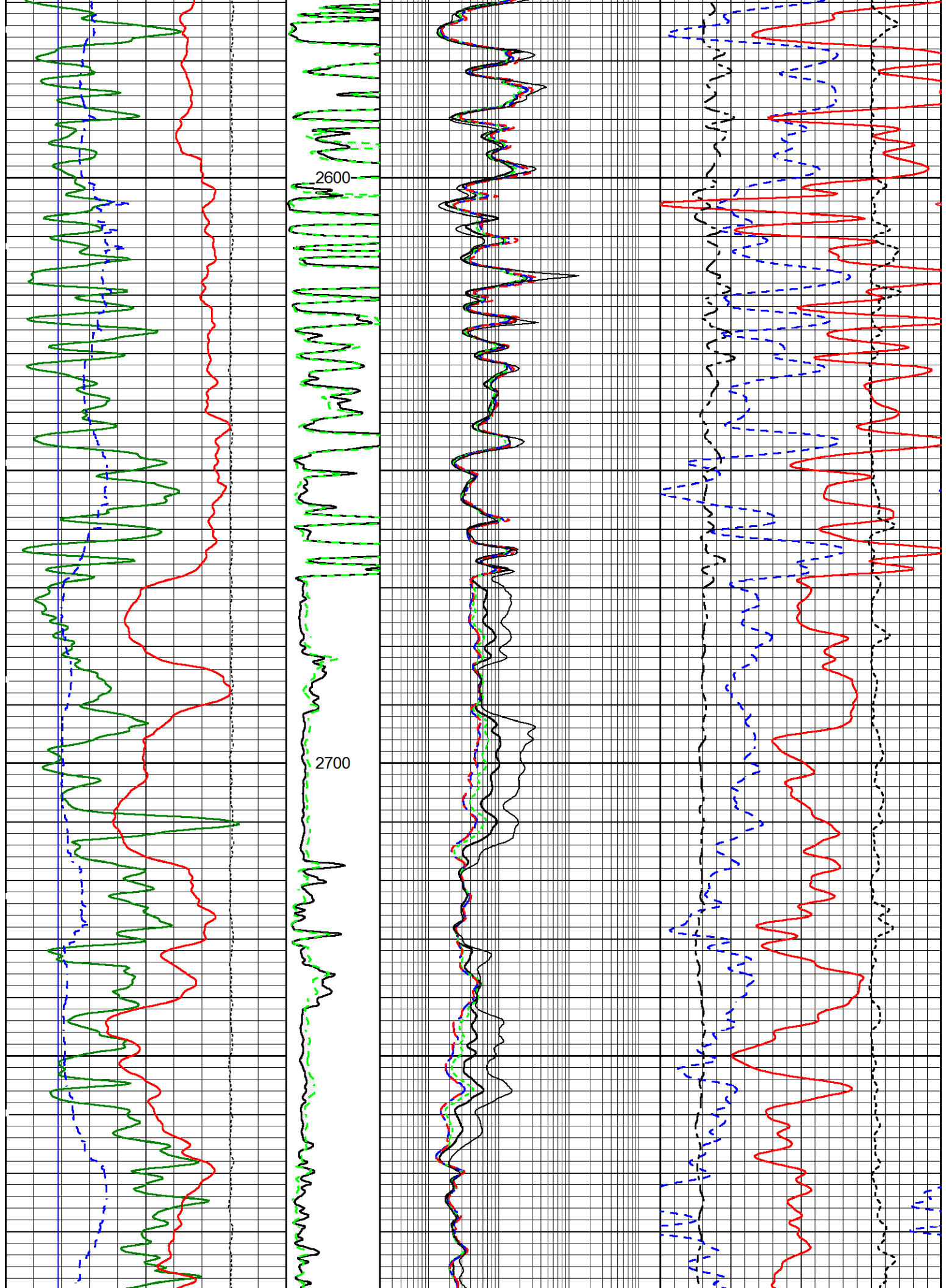
6	Bitsize (in)	16	Inv	0.2	20in Resistivity (Ohm-m)	2000	Neutron Porosity		
0	Gamma Ray (GAPI)	150	(Ohm-m)	0.2	30in Resistivity (Ohm-m)	2000	0.3	(Porosity Decimal Fraction)	-0.1
6	Caliper (in)	16	0	20	0.2	60in Resistivity (Ohm-m)	2000	Density Porosity	
	SP <-20+ mV>		Nor	0.2	90in Resistivity (Ohm-m)	2000	0.3	(Porosity Decimal Fraction)	-0.1
	500CLTEN (lb)	0	(Ohm-m)	0.2	10in Resistivity (Ohm-m)	2000	0	PE	10
		0	0	20				Density Correction	
								-0.25 (g/cc)	0.25

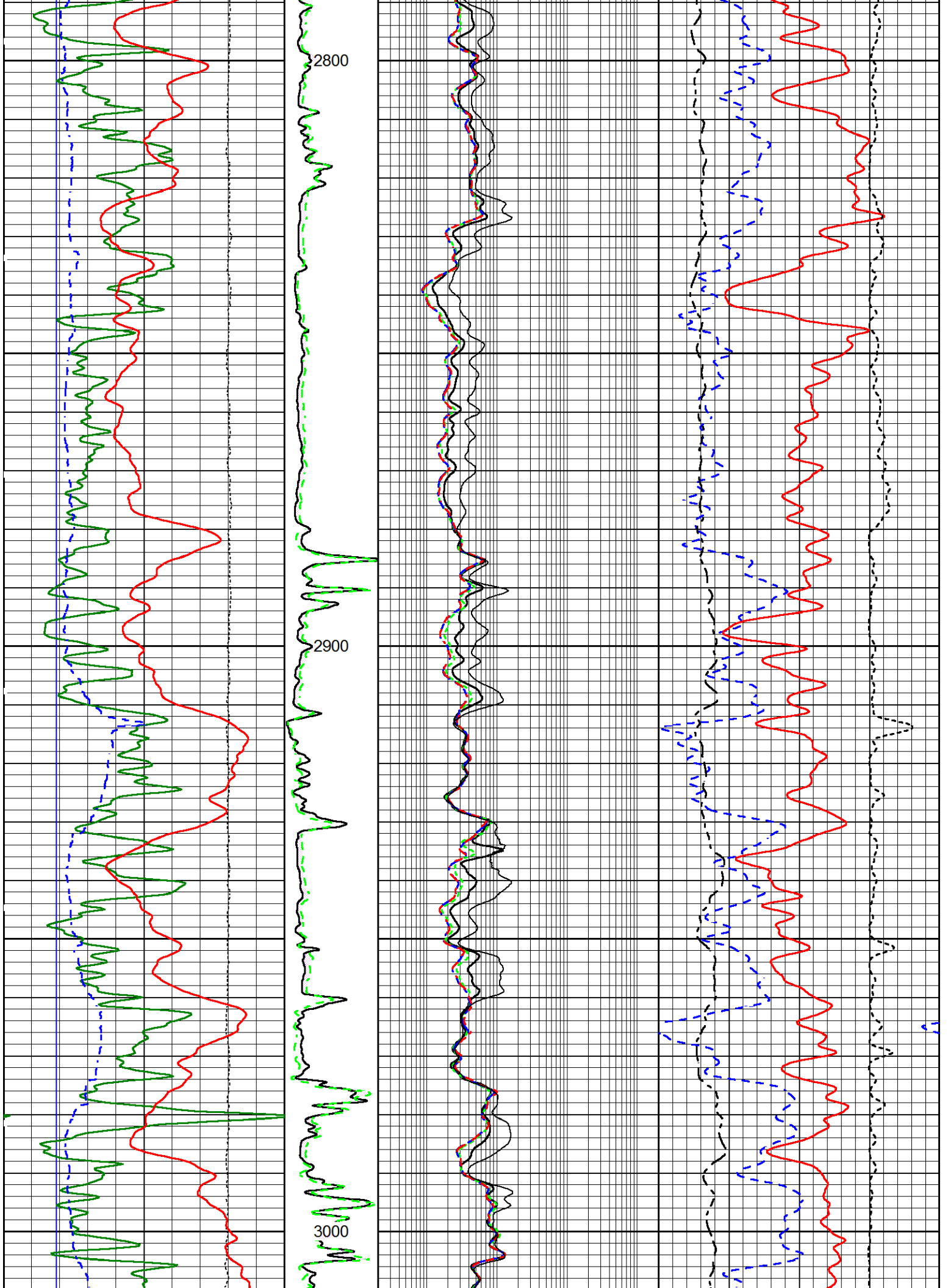


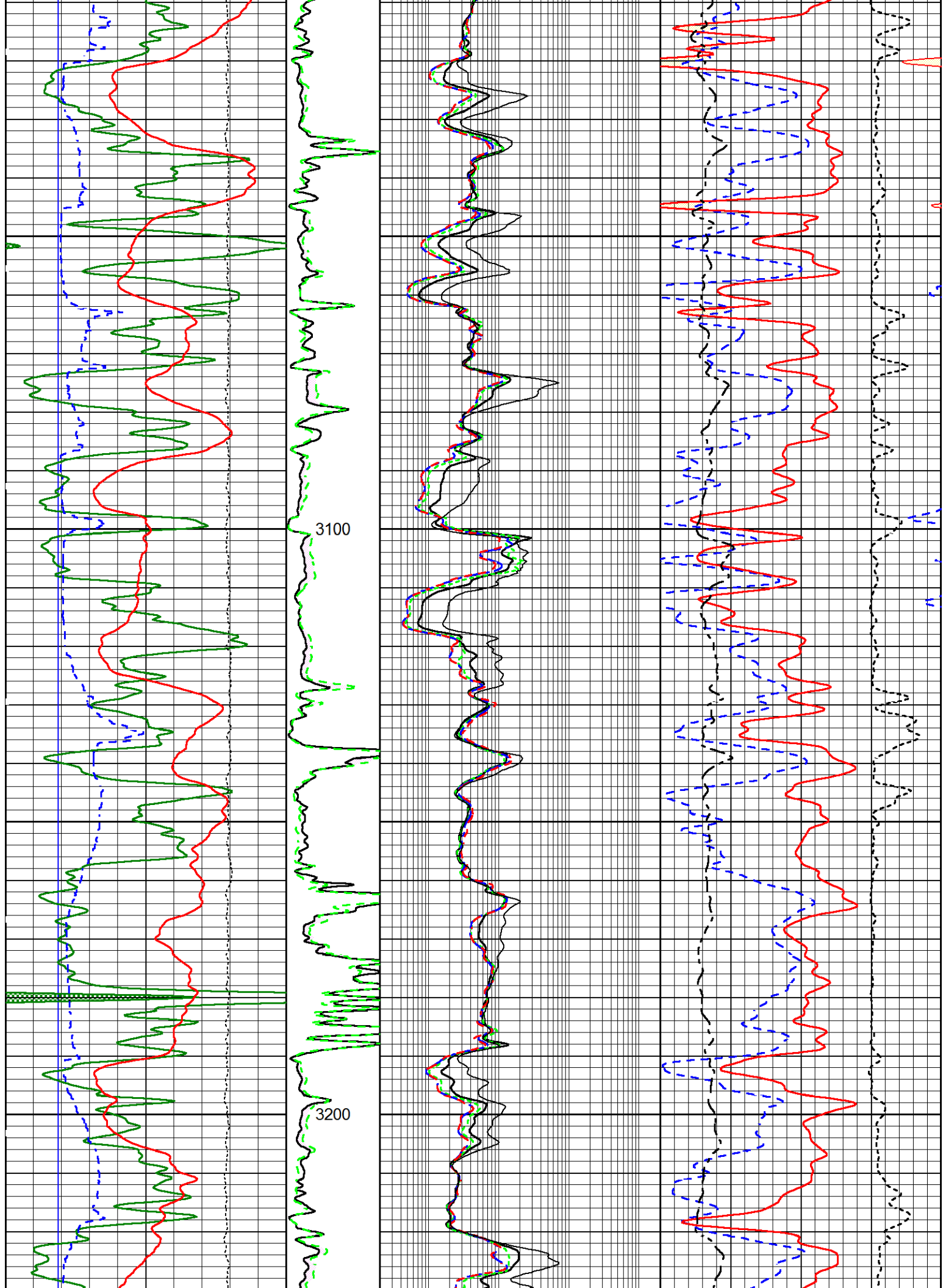


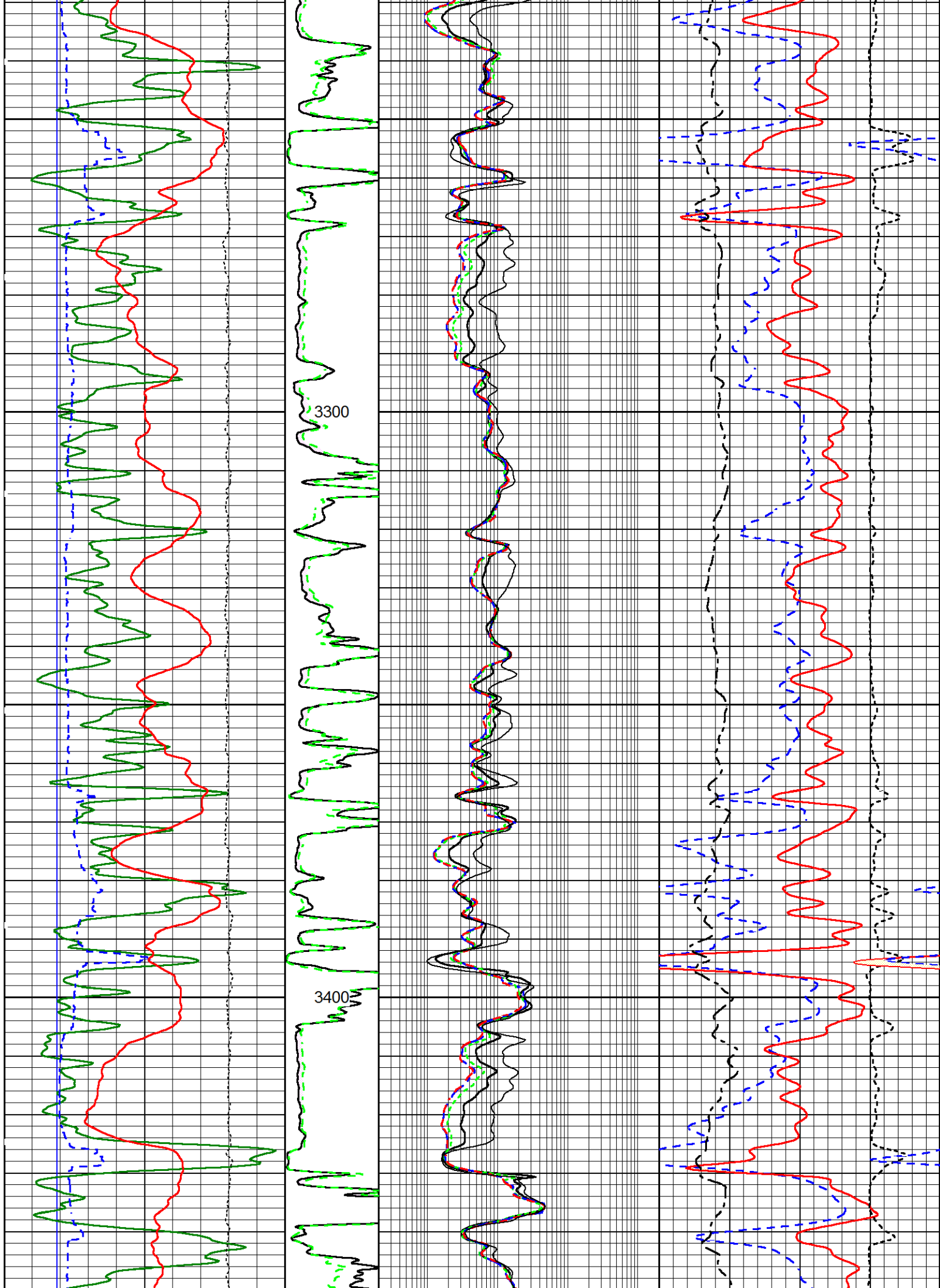


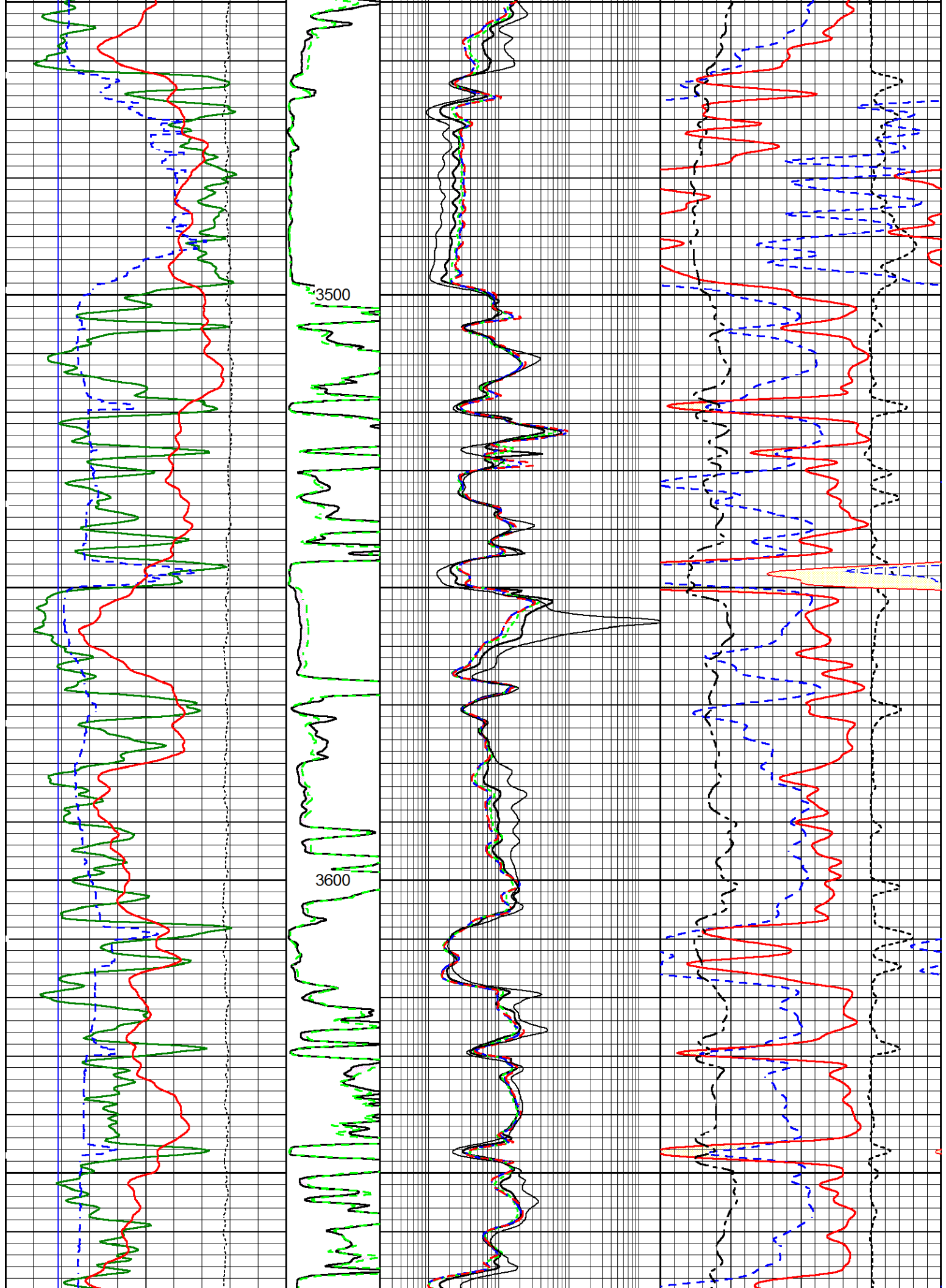


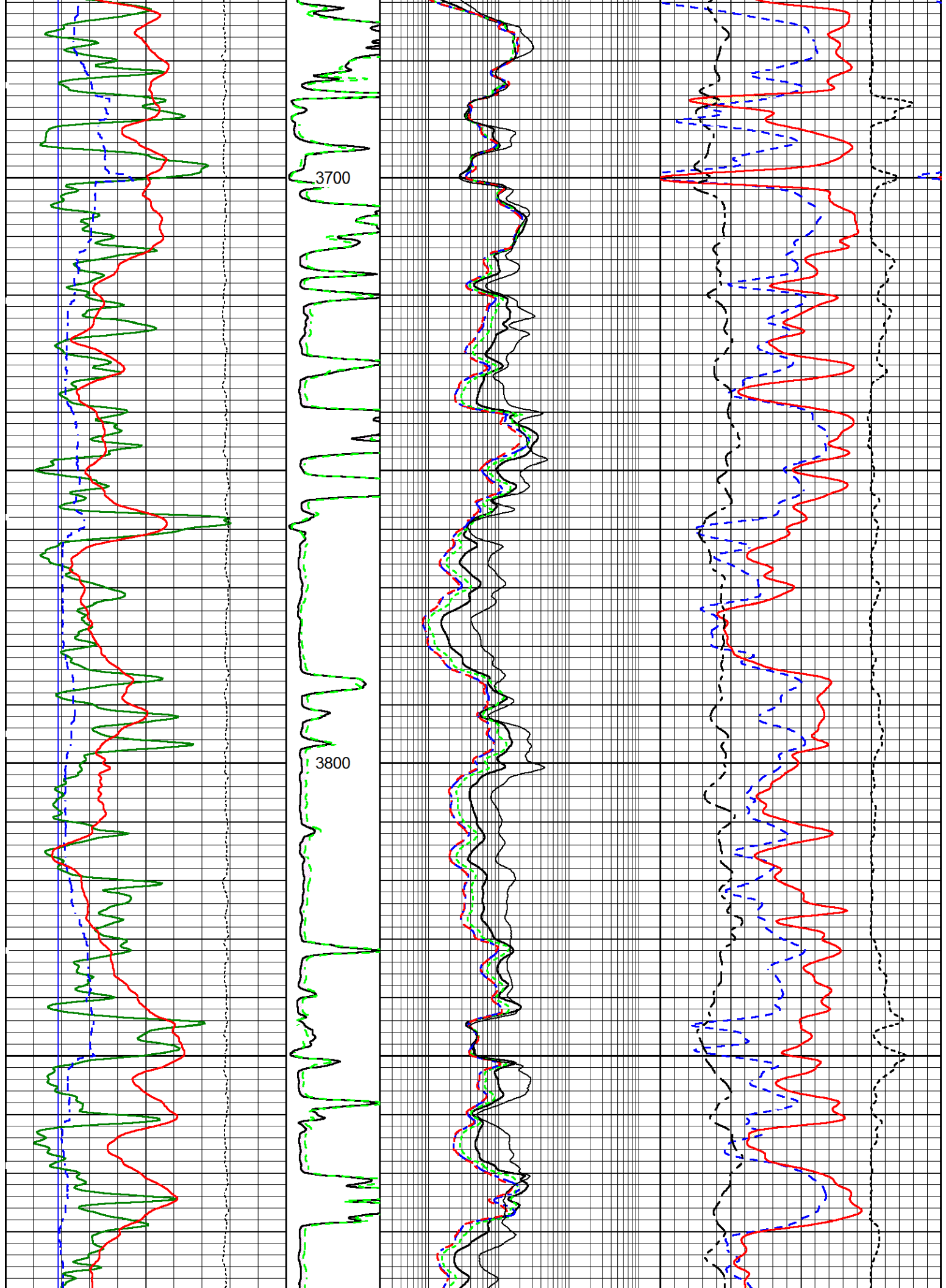


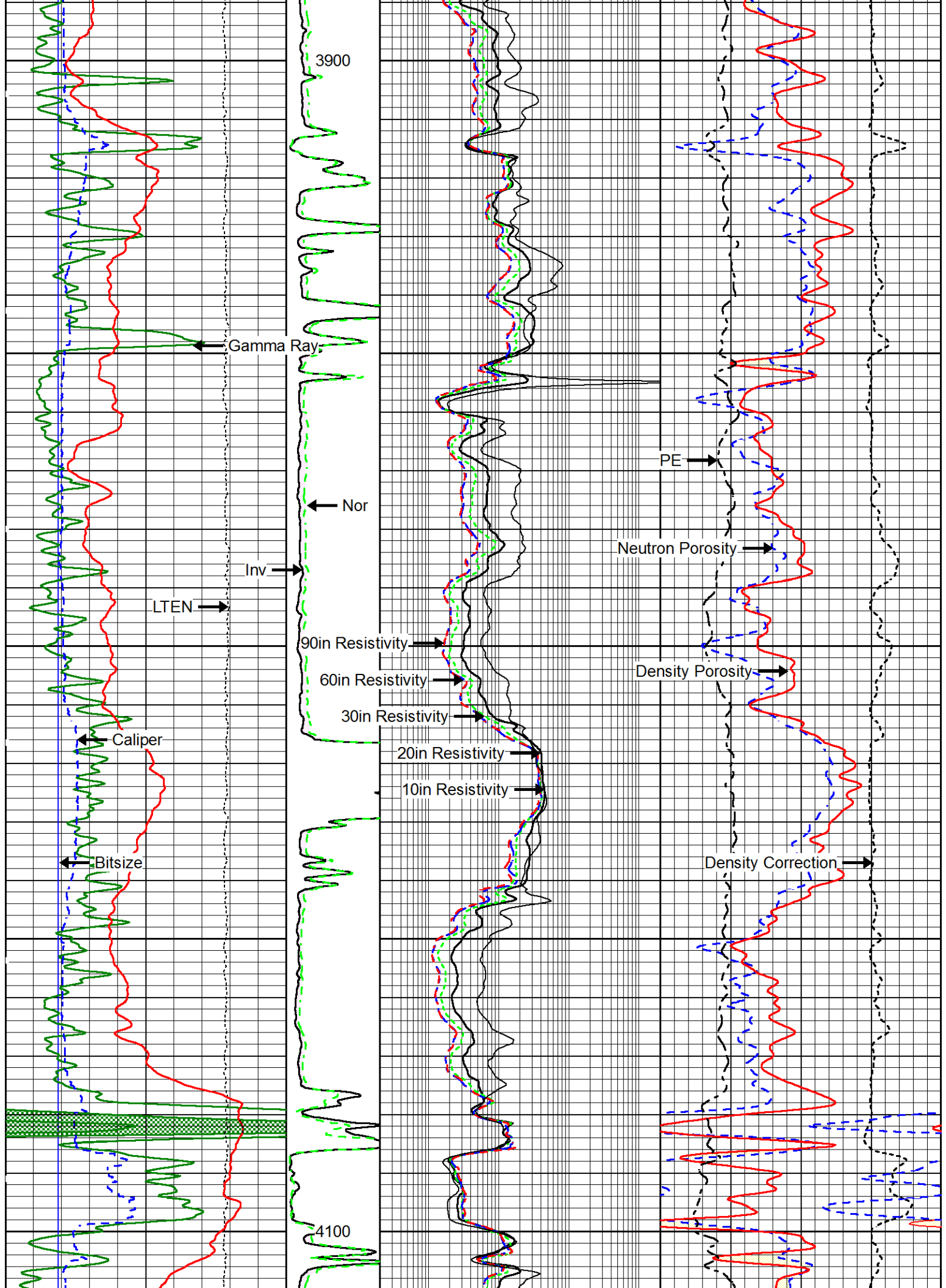


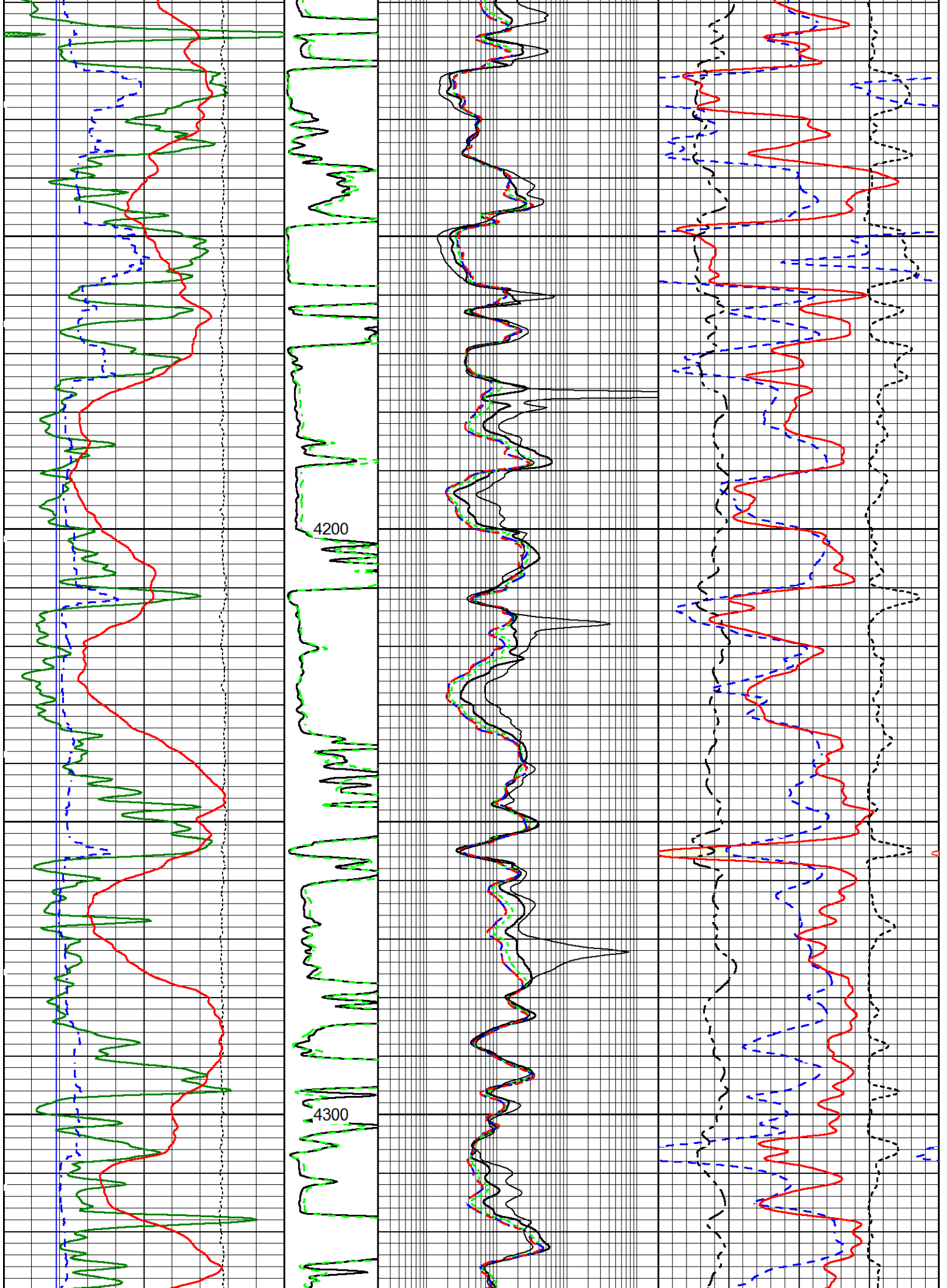


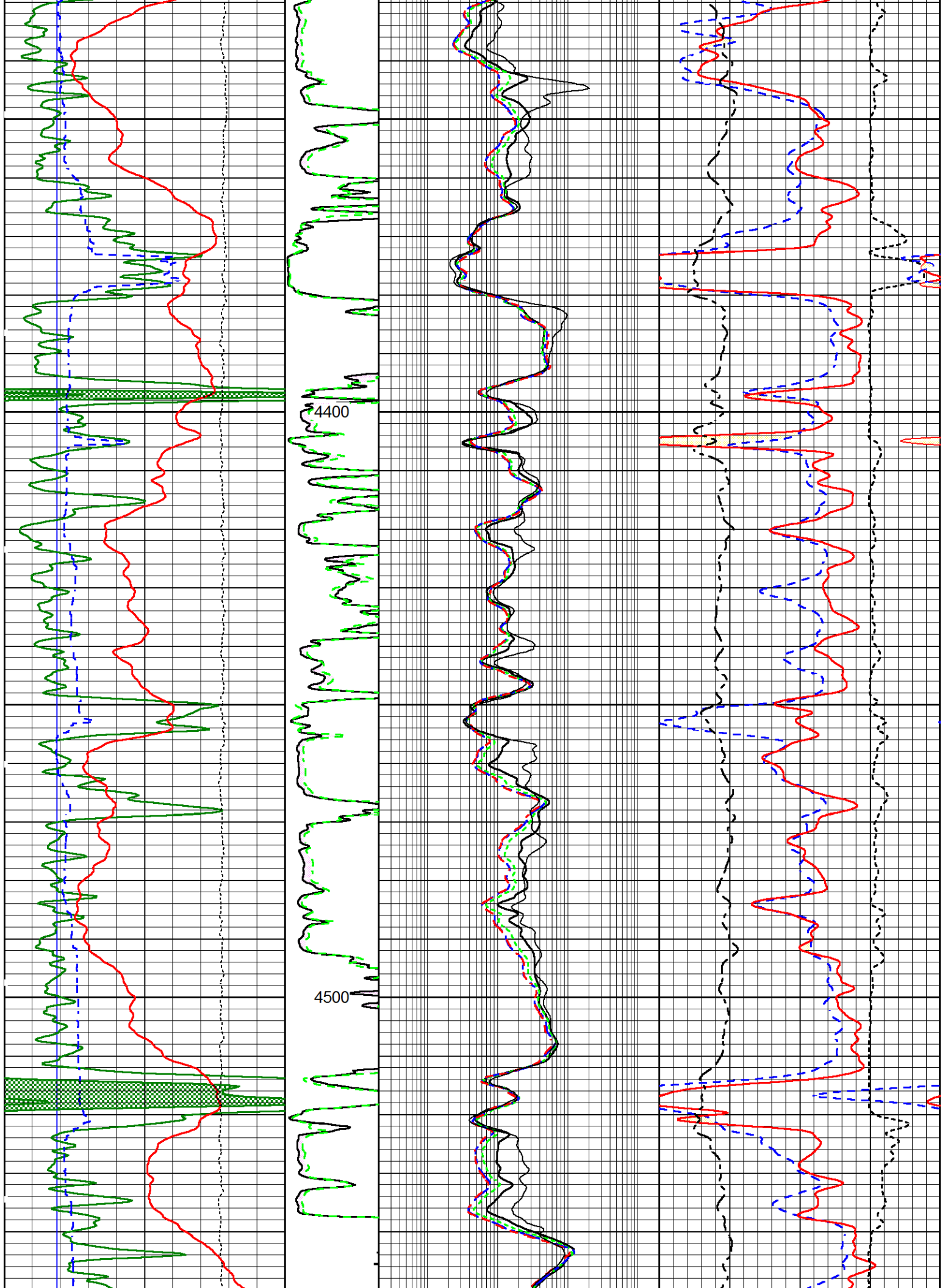


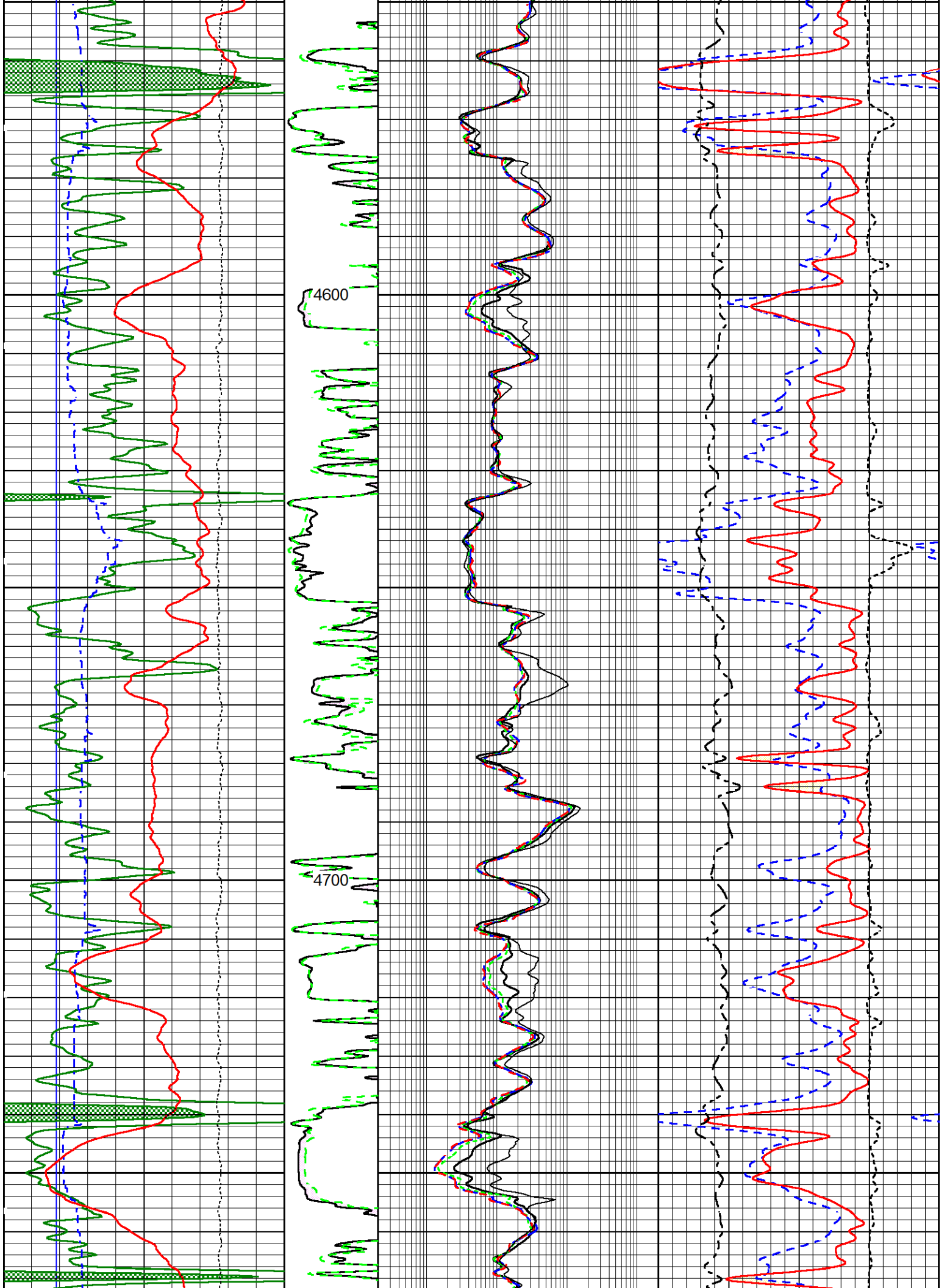


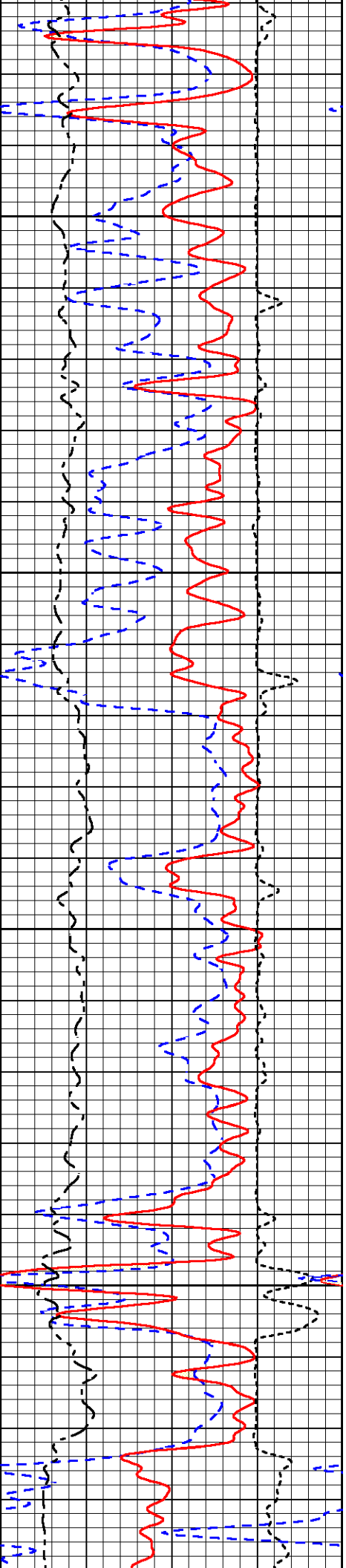
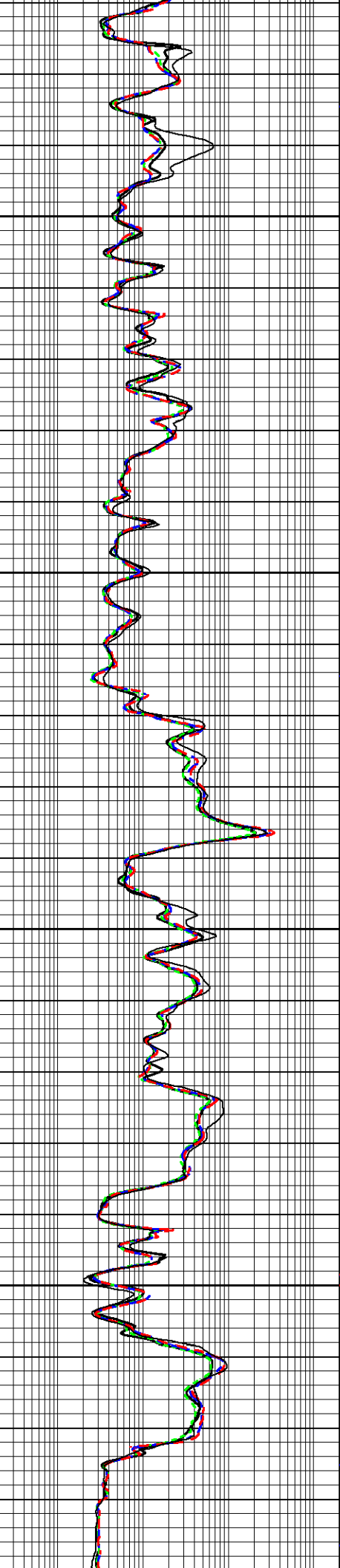
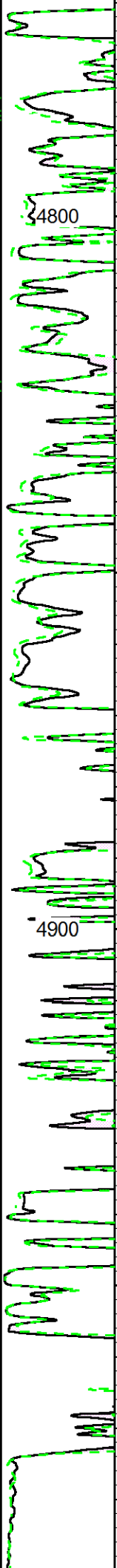
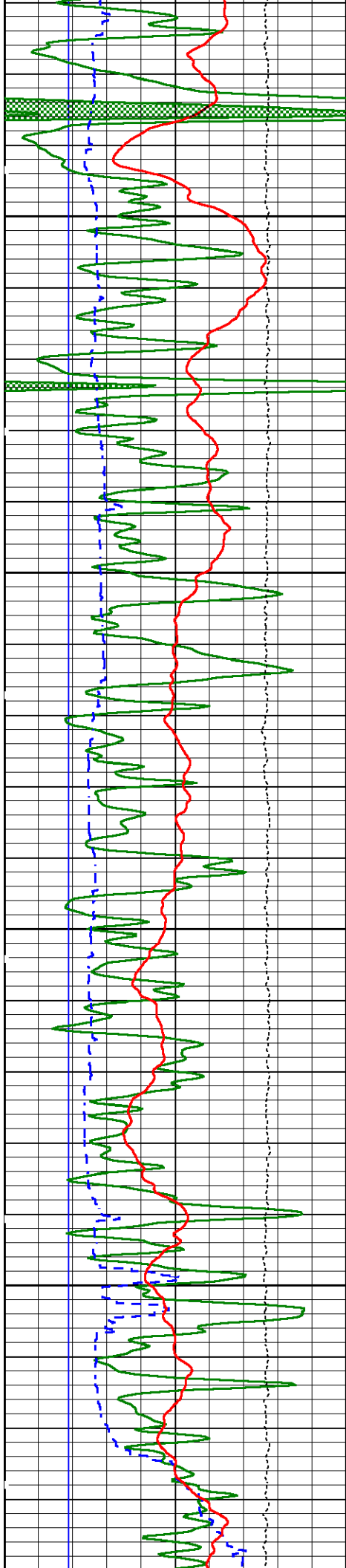


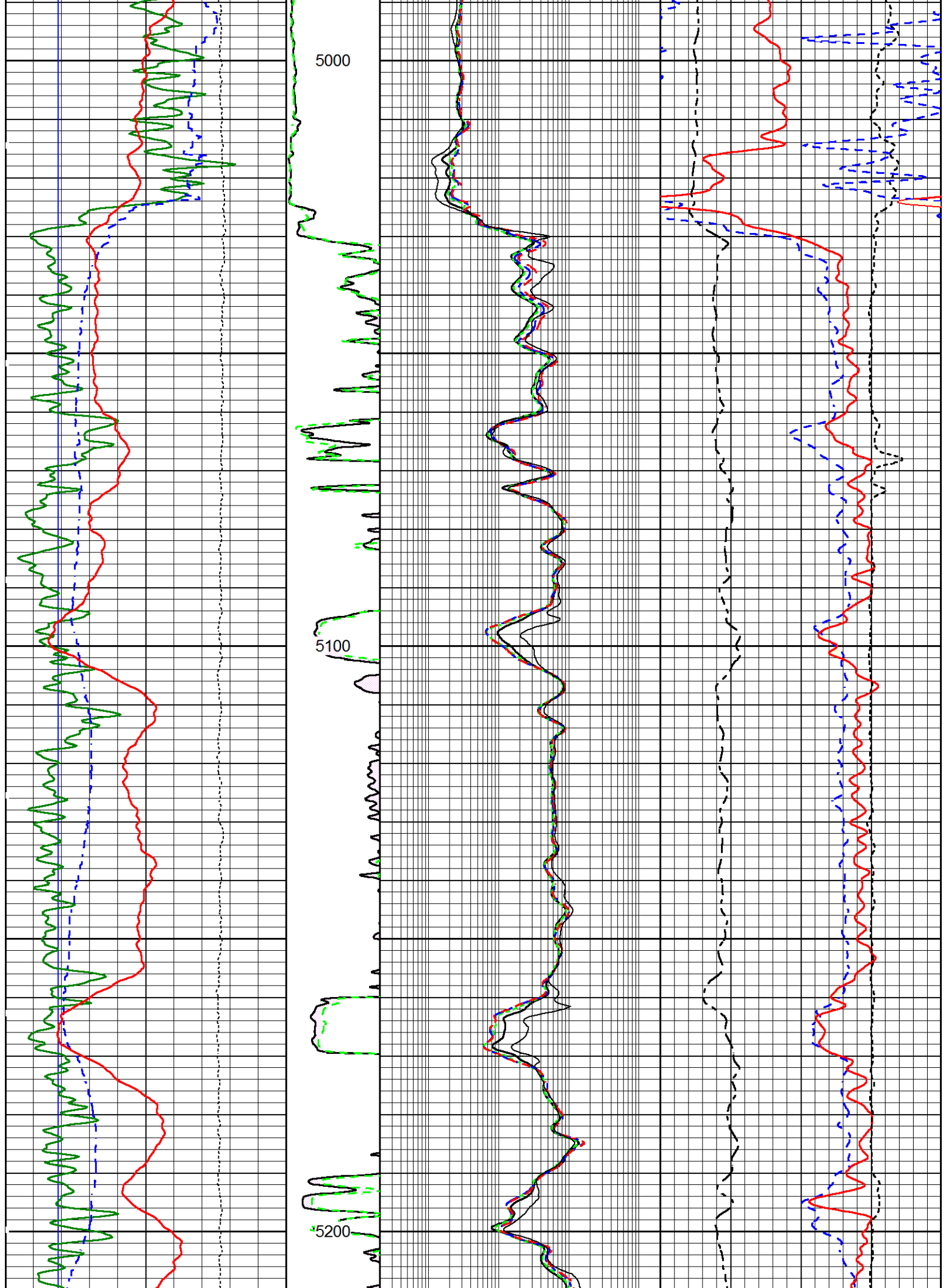


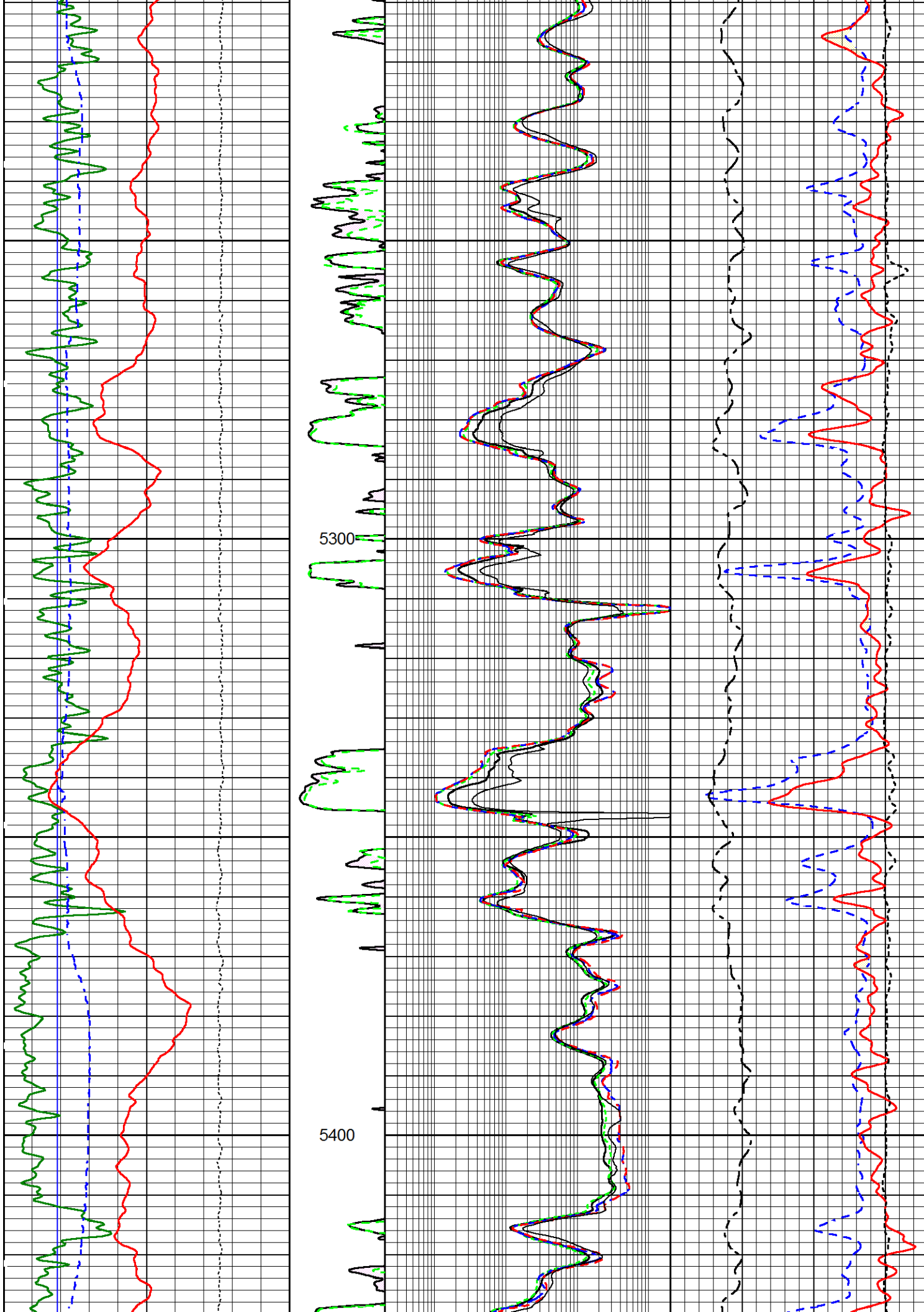


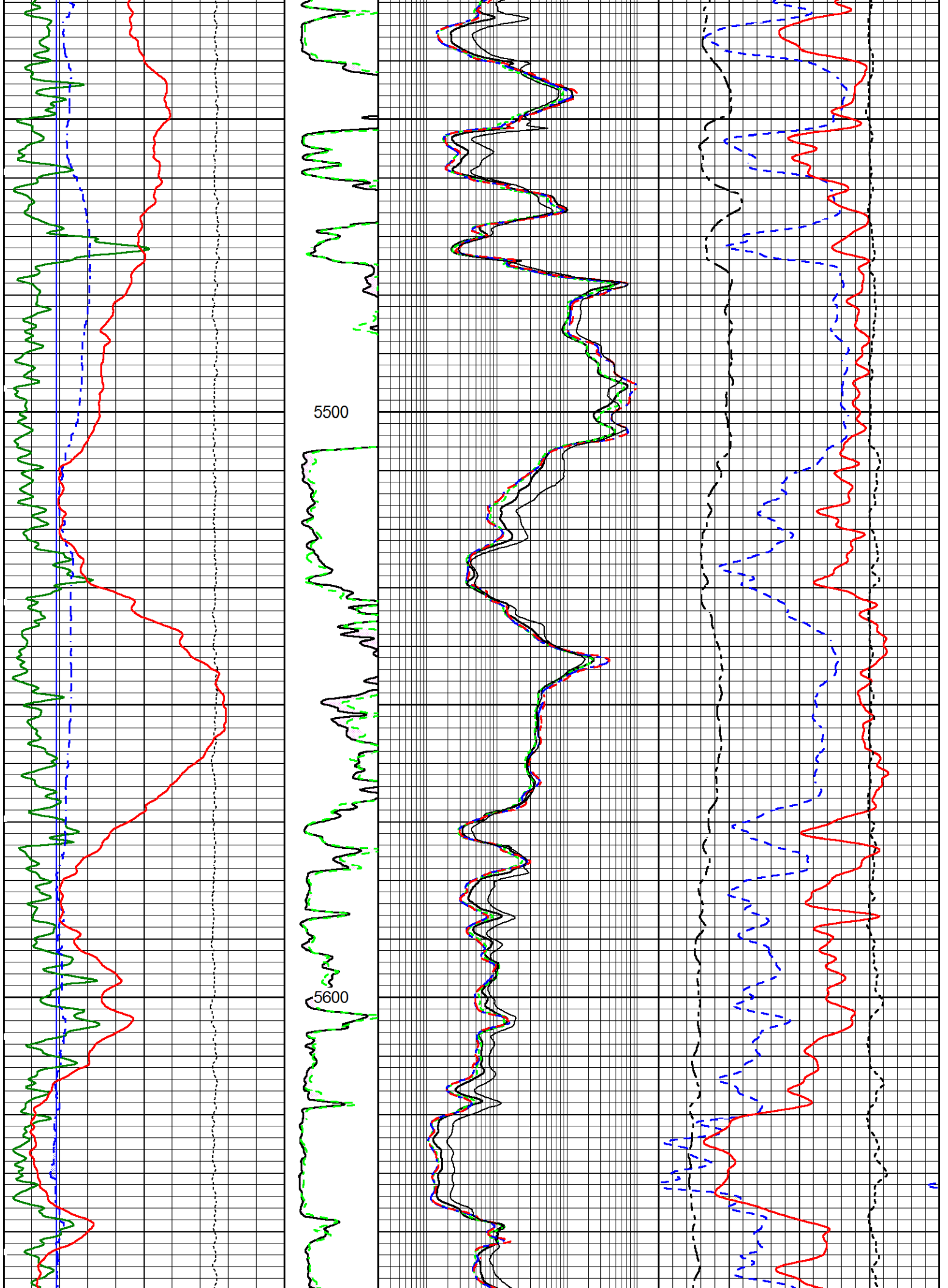


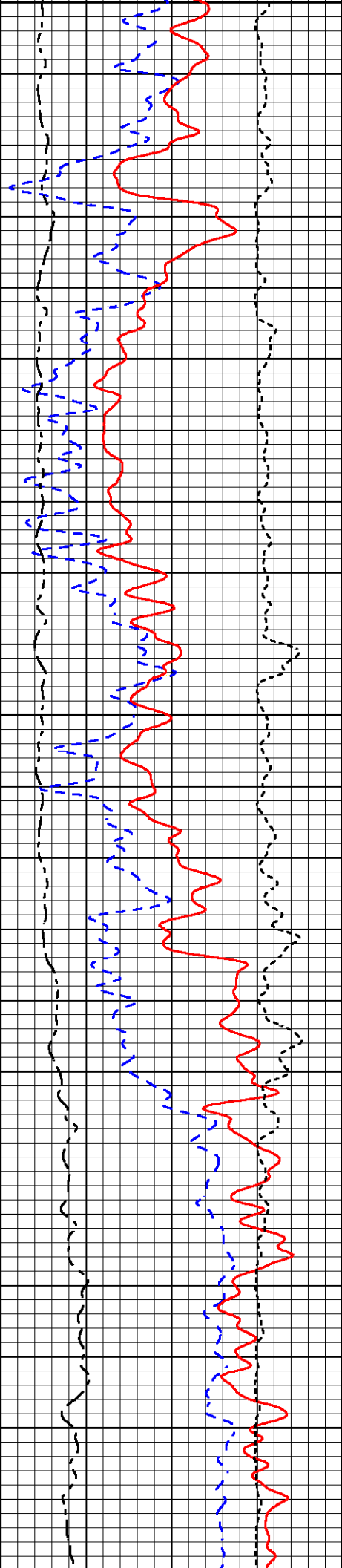
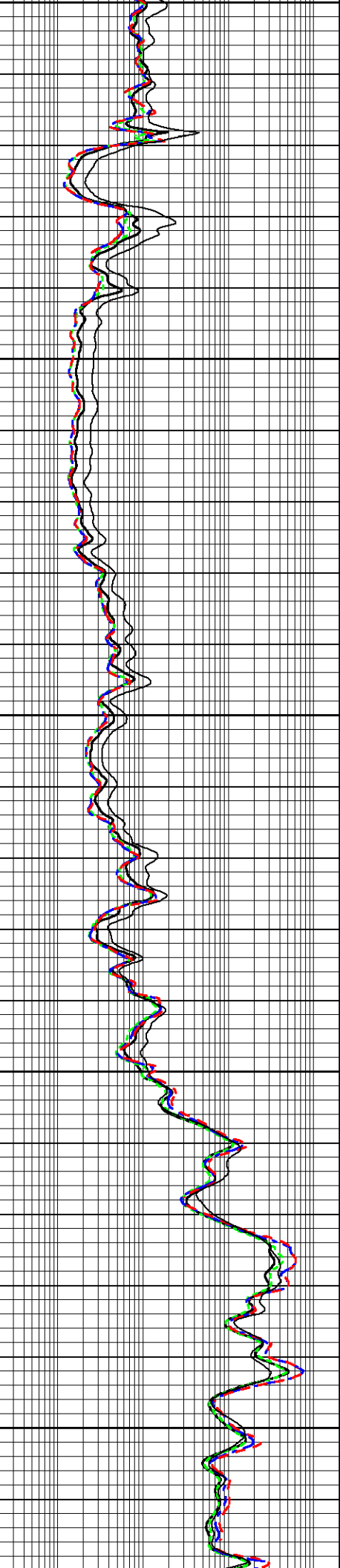
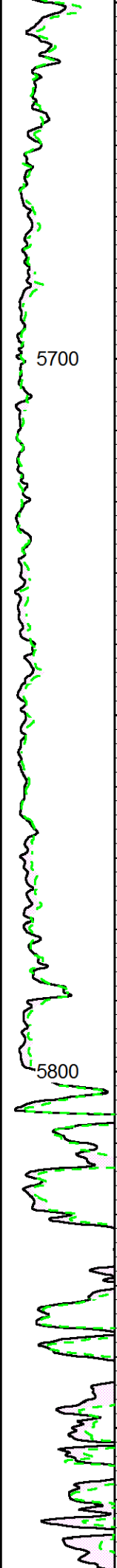
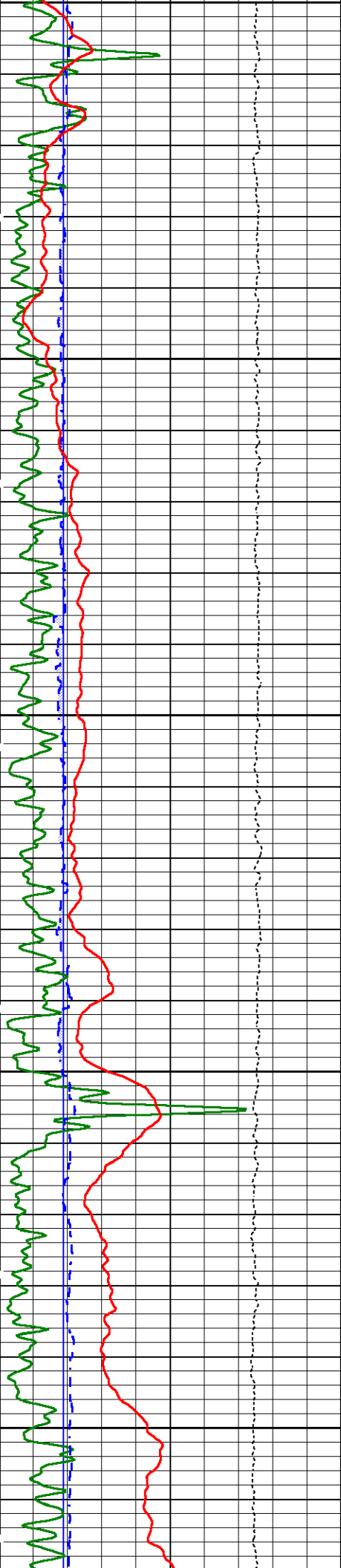


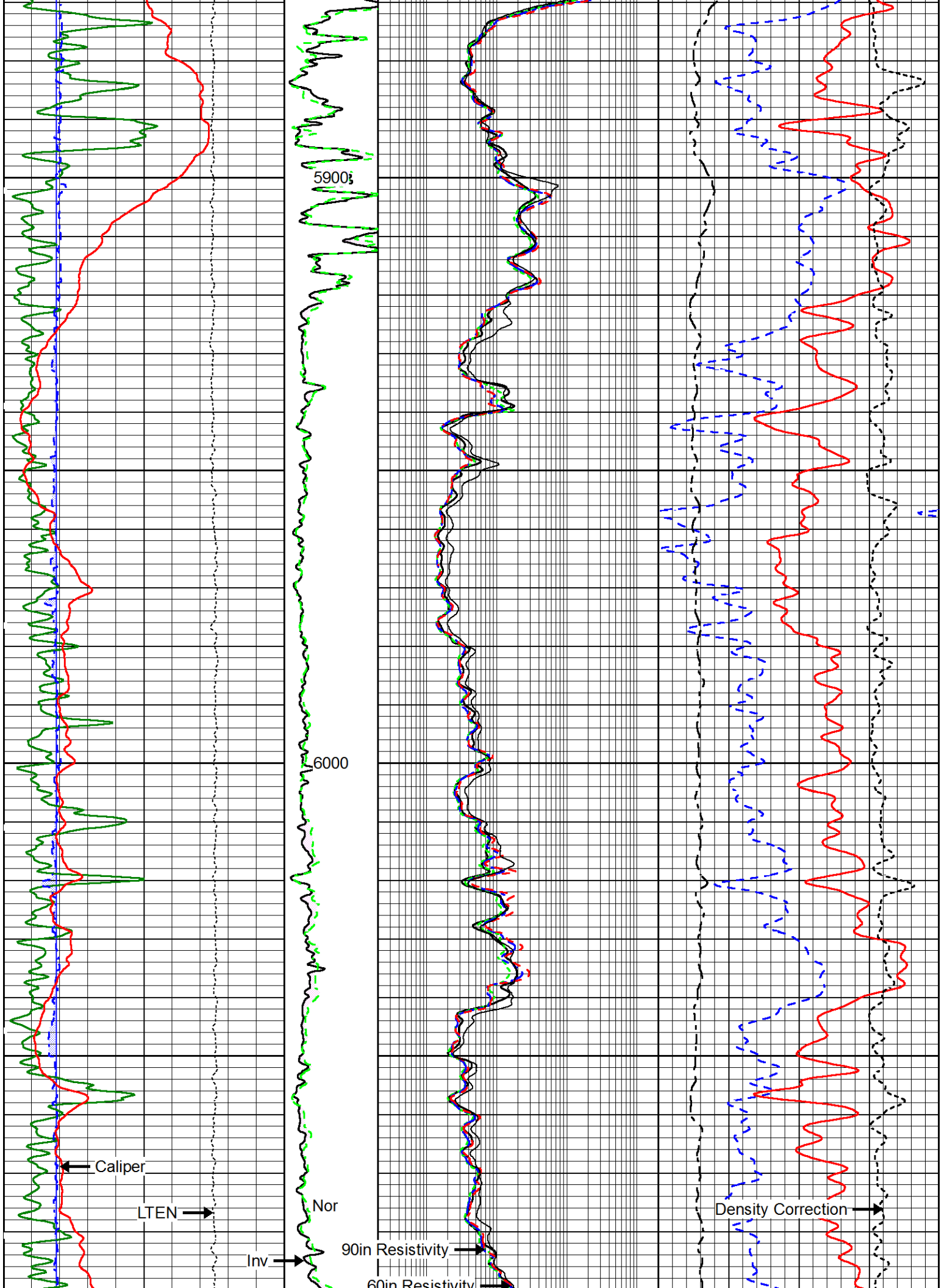


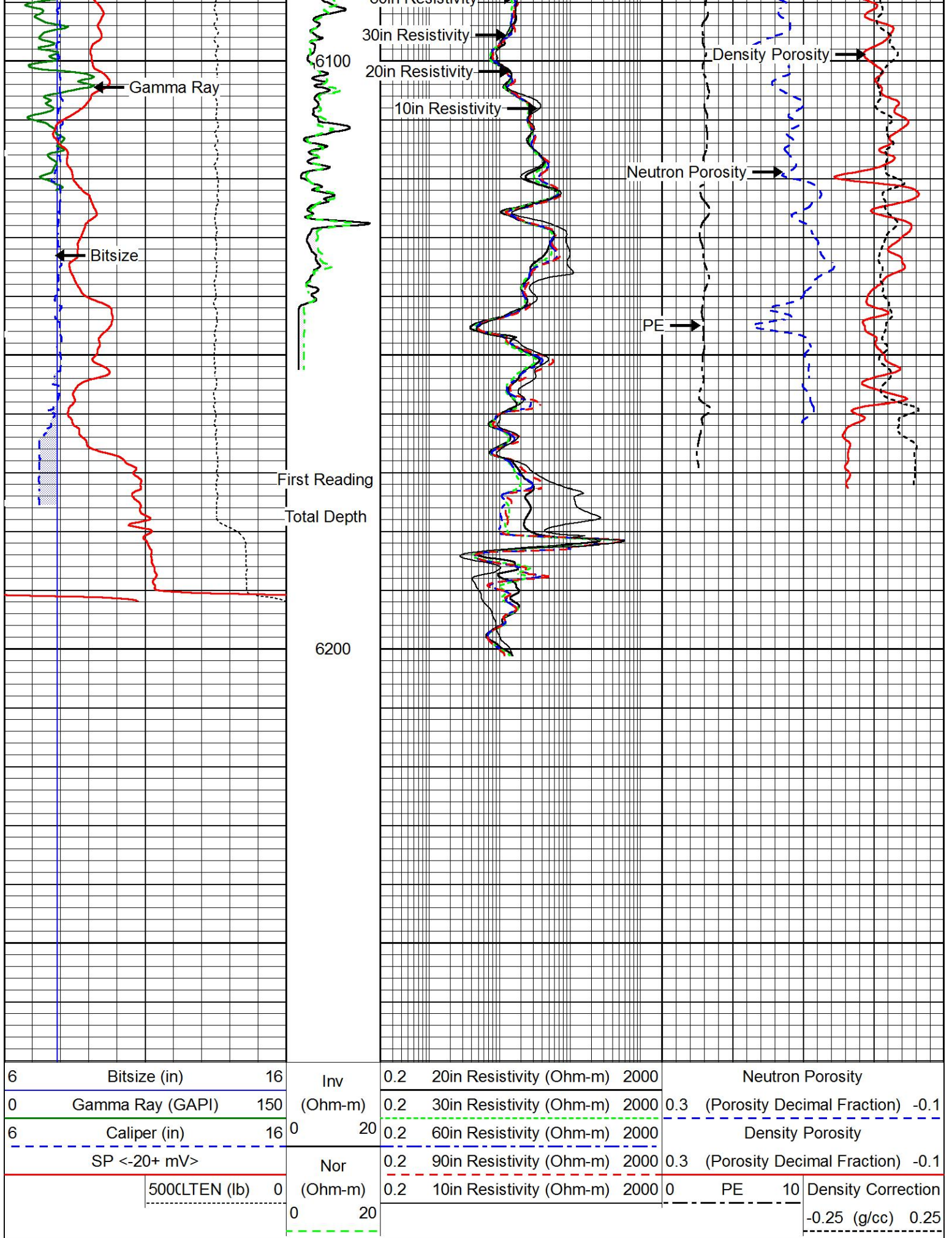






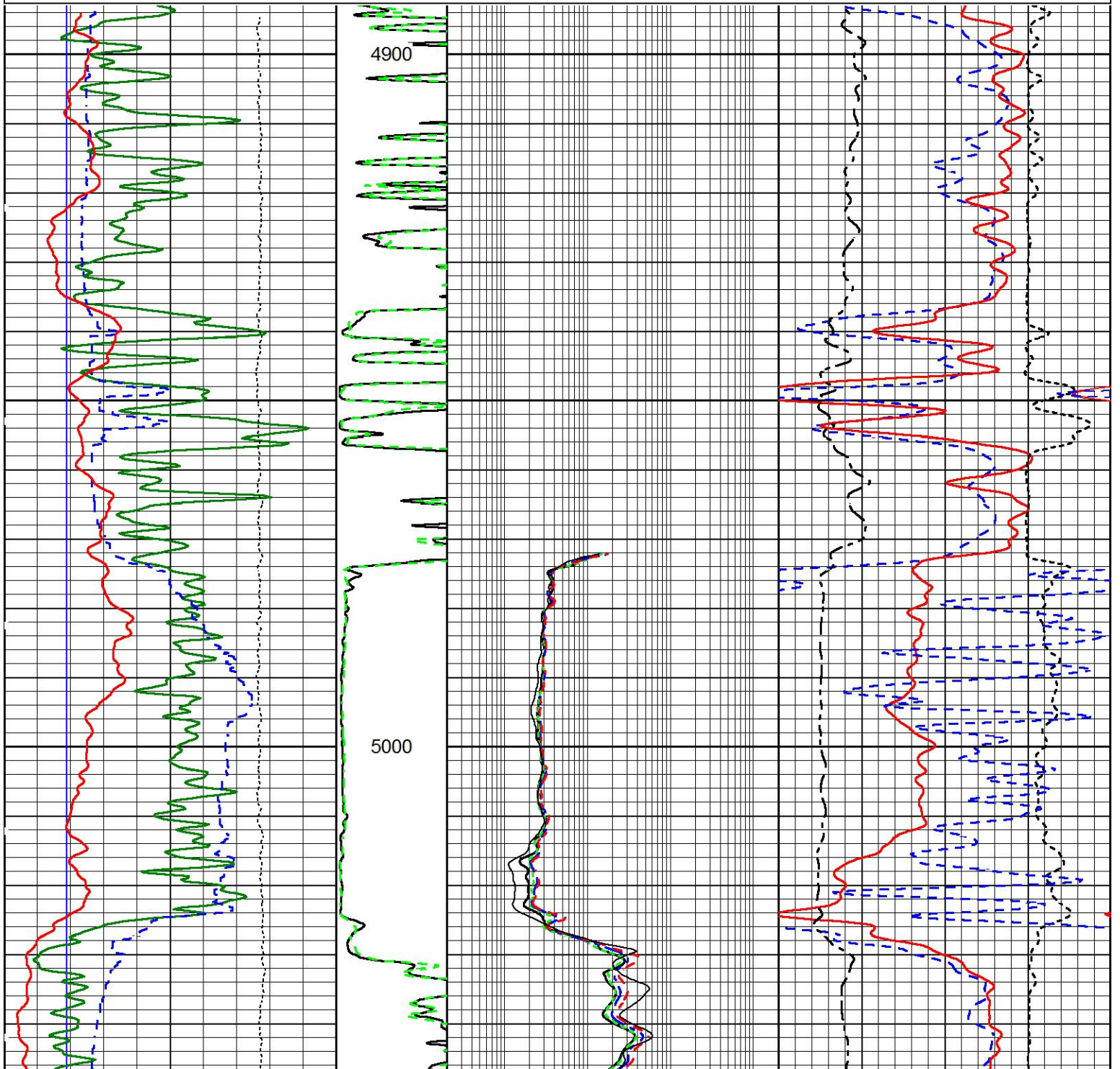


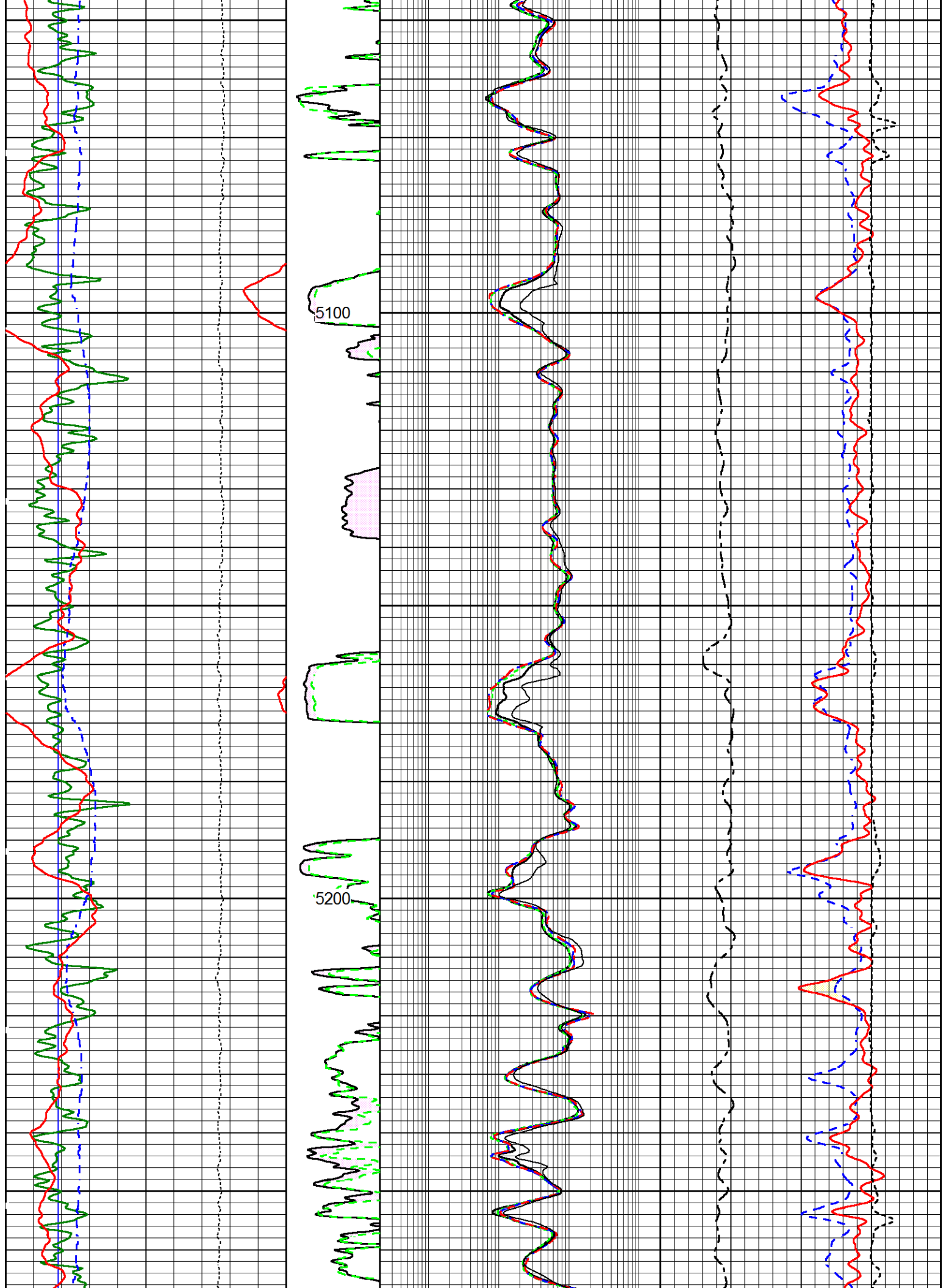


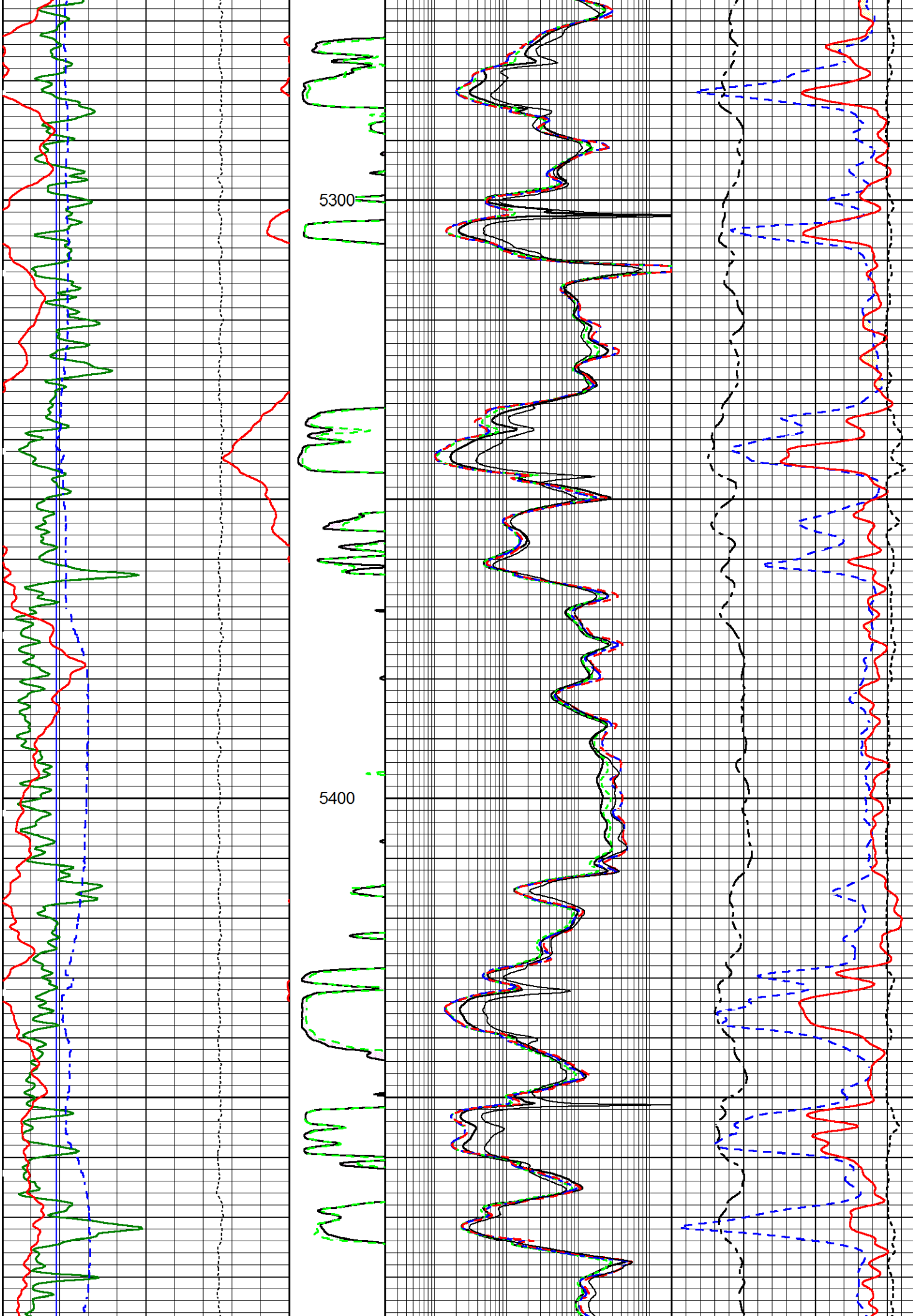


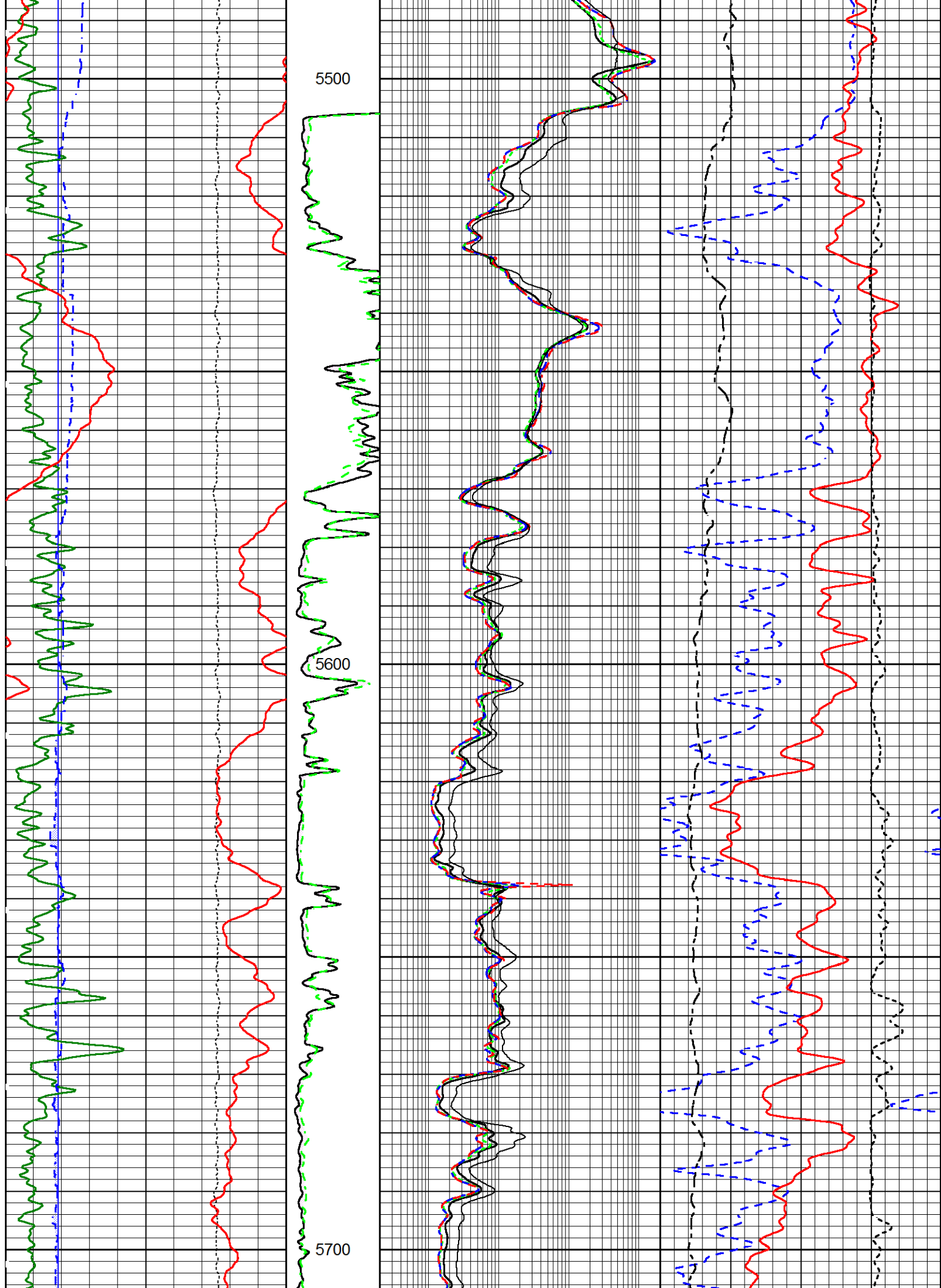
Database File f:\bengalia-faris#2-35\bengalia-faris2-35.db
 Dataset Pathname pass5
 Presentation Format OKC-3C~1
 Dataset Creation Mon Aug 26 17:37:57 2019 by Log Sondex
 Charted by Depth in Feet scaled 1:240

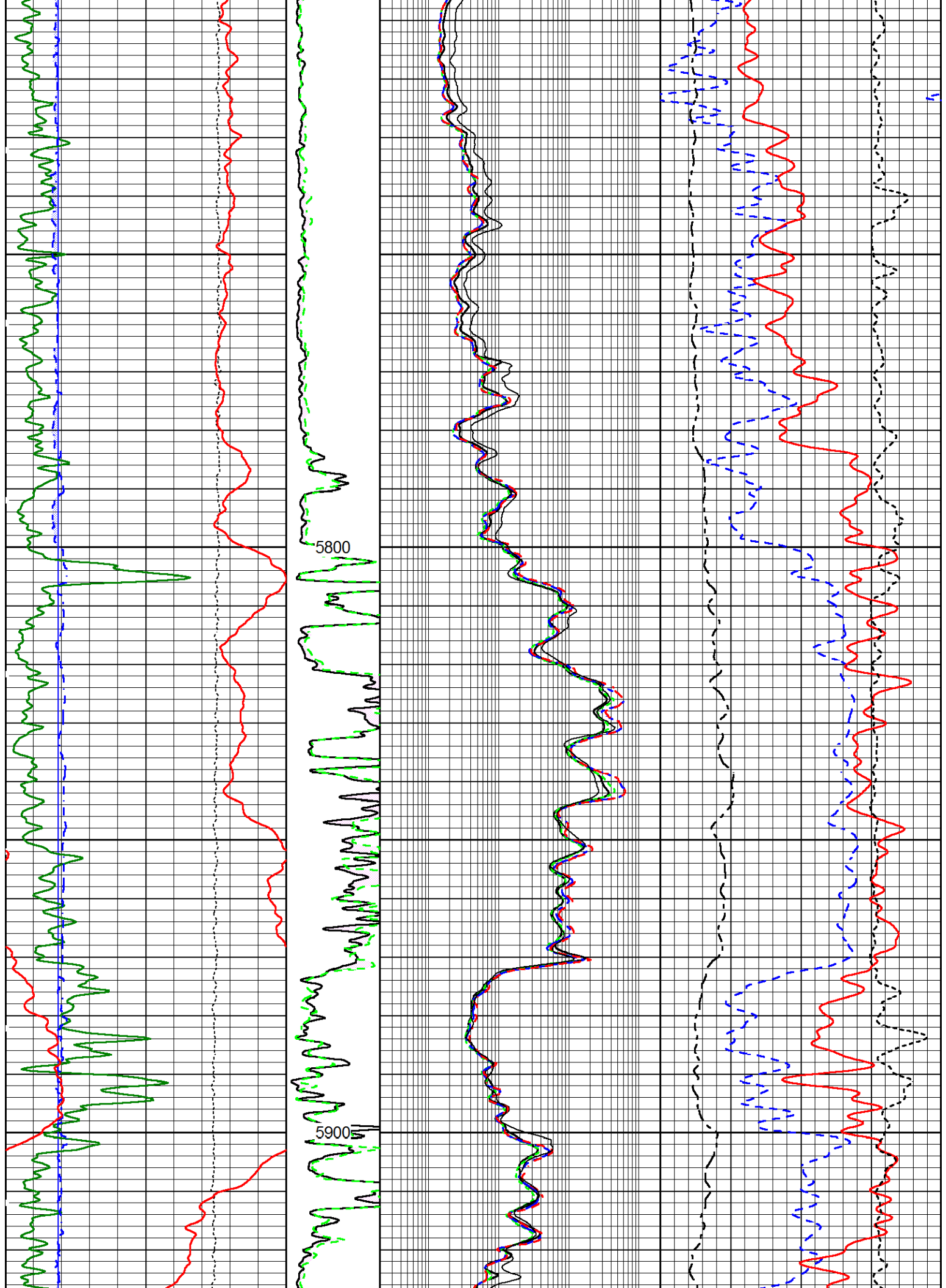
6	Bitsize (in)	16	Inv	0.2	20in Resistivity (Ohm-m)	2000	Neutron Porosity		
0	Gamma Ray (GAPI)	150	(Ohm-m)	0.2	30in Resistivity (Ohm-m)	2000	0.3	(Porosity Decimal Fraction)	-0.1
6	Caliper (in)	16	0	20	0.2	60in Resistivity (Ohm-m)	2000	Density Porosity	
SP <-20+ mV>			Nor	0.2	90in Resistivity (Ohm-m)	2000	0.3	(Porosity Decimal Fraction)	-0.1
	500CLTEN (lb)	0	(Ohm-m)	0.2	10in Resistivity (Ohm-m)	2000	0	PE	10
			0	20				Density Correction	
								-0.25 (g/cc)	0.25

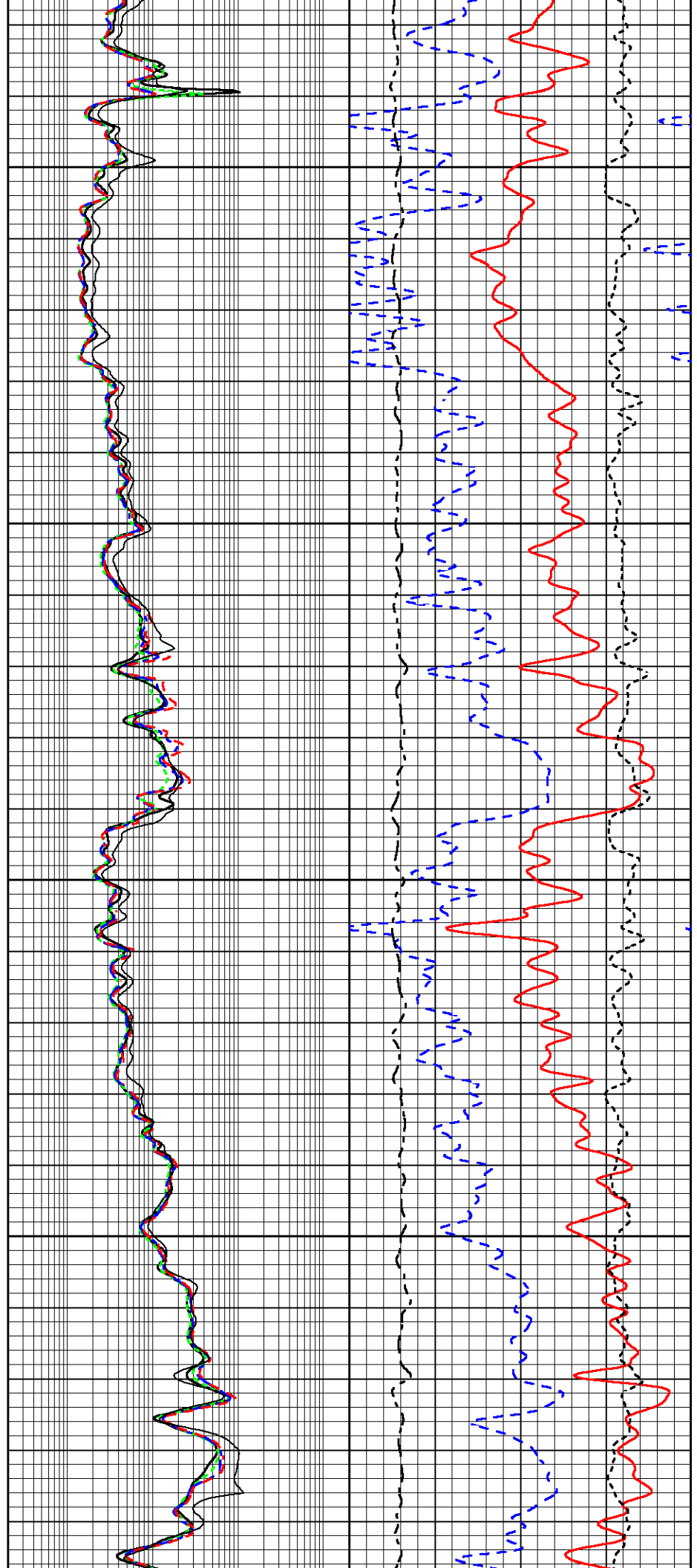
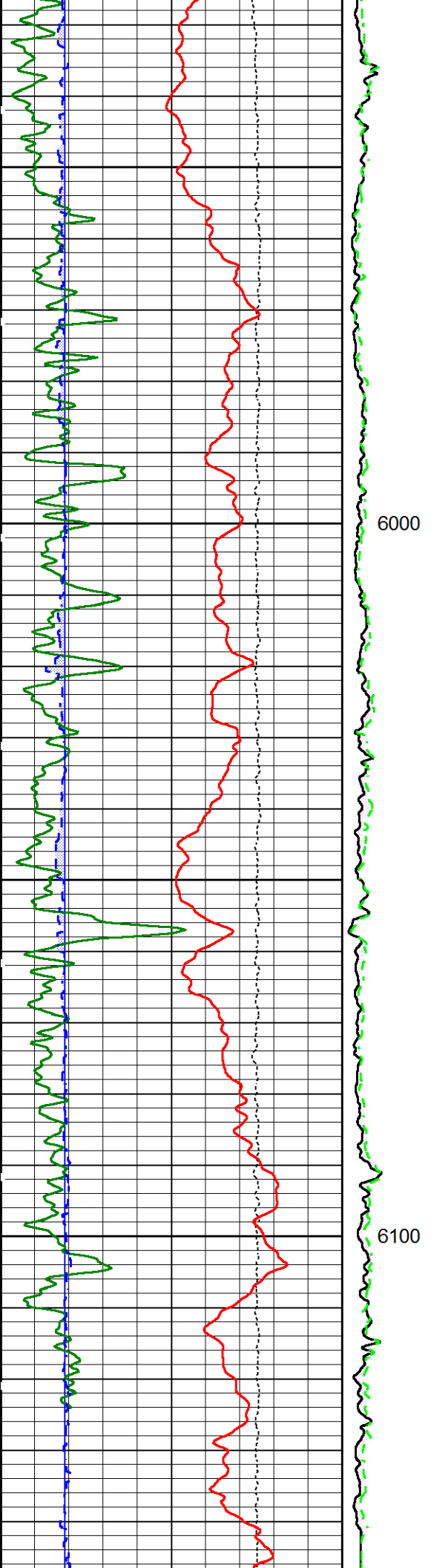


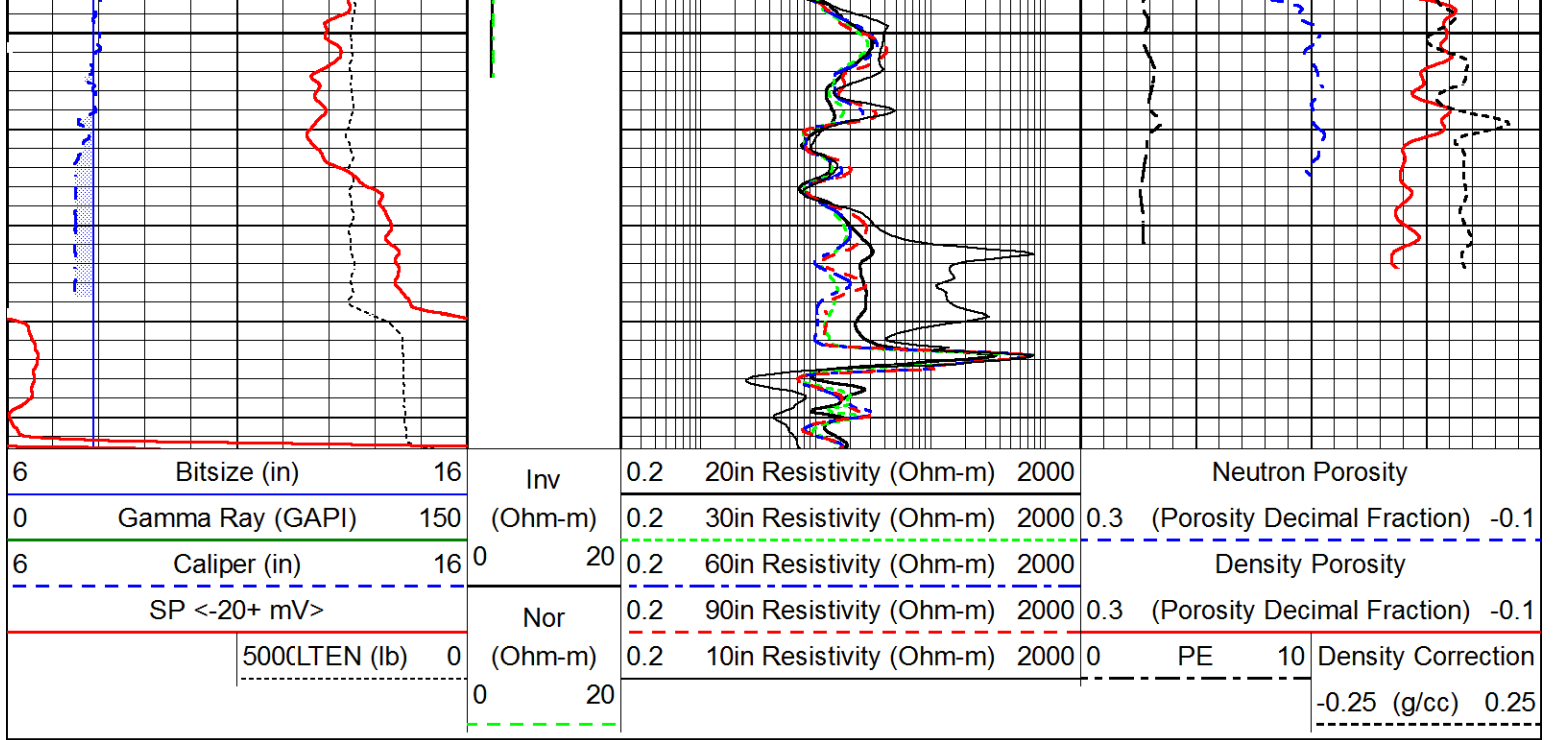












Log Variables

DatabaseF:\Bengalia-Faris#2-35\bengalia-faris2-35.db
Dataset field/well/run1/pass7/_vars_

Top - 1822.00 ft

MAXAMPL mV 0	MINAMPL mV 1	MINATTN db/ft 0.8	COMPACT 1	SVFLUID usec/ft 189	SVMATRIX usec/ft 47.6	FRMSALIN kppm 0	MUDSALIN kppm 0
DEVI deg 0	SRFTEMP degF 90	SO in 0.25	DE-CENT Yes	CASED? Yes	CASEWGHT lb/ft 11.5	NPORSEL Limestone	AIR_HOLE? No
MudWgt lb/gal 9.5	FLUIDDEN g/cc 1	MATRXDEN g/cc 2.71	SPSHIFT mV 0	CASETHCK in 0	CASEOD in 8.625	PERFS 0	TDEPTH ft 0
BOTTEMP degF 133	BOREID in 12.25						

1822.00 ft - Bottom

MAXAMPL mV 0	MINAMPL mV 1	MINATTN db/ft 0.8	COMPACT 1	SVFLUID usec/ft 189	SVMATRIX usec/ft 47.6	FRMSALIN kppm 0	MUDSALIN kppm 0
DEVI deg 0	SRFTEMP degF 90	SO in 0	DE-CENT Yes	CASED? No	CASEWGHT lb/ft 11.5	NPORSEL Limestone	AIR_HOLE? No
MudWgt lb/gal 9.5	FLUIDDEN g/cc 1	MATRXDEN g/cc 2.71	SPSHIFT mV 0	CASETHCK in 0	CASEOD in 5.5	PERFS 0	TDEPTH ft 0
BOTTEMP degF 133	BOREID in 7.875						

Calibration Report

Database File F:\Bengalia-Faris#2-35\bengalia-faris2-35.db
 Dataset Pathname pass7
 Dataset Creation Mon Aug 26 18:38:58 2019 by Log Sondex

Induction Array Tool Calibration Report

Serial Number: B10106
 Tool Model: 002

Master Calibration Performed: Tue Nov 28 10:59:51 2017
 Temperature: 68.7 degF

Sonde Error:

Array	1	2	3	4	5	6	7	
Real	192.8	-11.9	-39.2	-13.2	-1.7	1.8	6.3	mmho/m
Imaginary	-65.1	-116.4	-28.7	-0.7	-6.9	-21.0	-0.3	mmho/m

Loop Gain:

Array	1	2	3	4	5	6	7	
Loop (real)	537.7	678.5	1295.3	1394.1	1144.8	712.8	404.8	mmho/m
Loop (imaginary)	73.3	92.5	389.8	419.5	344.5	214.5	121.8	mmho/m
Real	751.4	713.1	1269.0	1383.2	1170.0	744.4	431.8	mmho/m
Imaginary	7.4	-22.6	351.2	413.7	341.5	200.9	128.1	mmho/m
Gain (real)	0.963	0.936	0.990	0.998	0.977	0.960	0.951	
Gain (imaginary)	1.012	0.986	1.026	1.012	0.989	0.967	0.948	

Before Survey Verification Performed: Tue Aug 04 09:42:06 2015
 Sonde 1 Temperature: 83.1 degF
 Sonde 2 Temperature: 79.2 degF
 Array 1 Temperature: 81.6 degF

Array	1	2	3	4	5	6	7	
TxIR	-0.0	-0.0	0.1	0.1	0.1	0.1	0.1	
TxIX	-0.0	-0.0	-0.2	-0.2	-0.2	-0.2	-0.2	
Tx Magnitude	0.0	0.0	0.2	0.2	0.2	0.2	0.2	
Gain	50.5	64.5	54.5	66.5	80.2	108.5	158.9	
RxCR	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	
RxCX	0.1	0.1	0.1	0.1	0.2	0.1	0.1	
RxC Magnitude	0.1	0.1	0.1	0.1	0.2	0.1	0.1	

Tool Module Parameters

Software Version: 8.0.0.4
 Borehole Size Source: BOREID
 Mud Resistivity Source: MUDRES
 Mud Resistivity At Surface: N/A
 Mud Resistivity Surface Temperature: N/A
 Borehole Corrections: Automatic
 Minimum Standoff: 0.4 in

Litho Density Tool Calibration Report

Serial Number: B113S50129B
 Tool Model: 002

Caliper Calibration Performed: Wed May 08 11:18:07 2019

	Diameter		Reading	
Small Ring:	9.000	in	1625.400	cps
Large Ring:	13.000	in	1968.300	cps

Gain: 0.0117
 Offset: -9.9606

Master Calibration Performed: Tue Aug 06 09:27:49 2019

Source Number: 50129B
Medium: Air
Al Block Density: 2.6002 g/cc

	Background	Al Block	Al Block + Fe	
SS1	701.8	4330.7	4100.6	cps
SS2	1970.9	29367.3	27598.8	cps
SSTOTAL	4623.7	46788.7	43546.8	cps
LITH	85.1	504.8	331.2	cps
LL	167.8	803.4	785.4	cps
LU	474.2	1007.7	1000.1	cps
LS	642.0	1811.1	1785.5	cps
LSTOTAL	1207.0	4499.4	3989.5	cps
SSHV	1559.4	1558.9	1559.0	V
LSHV	1483.1	1485.3	1486.3	V
SSFF	0.006	0.009	-0.004	
LSFF	0.002	-0.008	-0.008	

Before Survey Verification Performed:
After Survey Verification Performed:

	Master Background	Before Survey Background	After Survey Background	
SS1	701.8			cps
SS2	1970.9			cps
SSTOTAL	4623.7			cps
LITH	85.1			cps
LL	167.8			cps
LU	474.2			cps
LS	642.0			cps
LSTOTAL	1207.0			cps
SSHV	1559.4			V
LSHV	1483.1			V
SSFF	0.006			
LSFF	0.002			

Tool Module Parameters

Software Version: 8.0.0.6
Borehole Size Source: CALI
Pad Type: 2

Compensated Neutron Tool Calibration Report

Serial Number: C10071
Tool Model: 009

Master Calibration Performed: Tue Aug 06 10:29:05 2019

Source Number: 87624G

Short Spacing Counts: 5837.76 cps
Long Spacing Counts: 212.24 cps
High Voltage: 1363.91 V

Target Ratio: 27.2000
Ratio: 27.5051
K-Factor: 0.9889

Before Survey Verification Performed: Tue Aug 06 10:35:35 2019

Verifier Number: 6489

Verifier Values	Master Cal	Before Survey	After Survey	
Short Spacing Counts:	269.00	267.48	267.12	cps
Long Spacing Counts:	233.21	234.27	231.91	cps
High Voltage:	1363.86	1363.85	1363.85	V
Ratio:	1.1535	1.1417	1.1518	

Tool Module Parameters

Software Version: 8.0.0.5
 Borehole Size Source: CALI
 Clip Crossplot Porosity: YES
 Lithology Identification Parameters:
 Calcite Quartz Dolomite
 Uma: 13.77 4.79 9.03 barns/cc
 RHOma: 2.71 2.65 2.88 g/cc

Micro Electric Log Calibration Report

Serial Number: 10022649
 Tool Model: 003

Caliper Calibration Performed: Mon Nov 13 12:40:50 2017

	Pad Arm			Backup Arm		
	Radius		Reading	Radius		Reading
Small Jig:	9.000	in	1847.200	9.000	in	1677.000
Large Jig:	13.000	in	2371.600	13.000	in	2315.300
Gain:			0.0076			0.0063
Offset:			-5.0900			-1.5092

Pad Calibration

Gain: Inverse Normal
 Offset: 0.3000 0.3500
 0.0000 0.0000

Tool Module Parameters

Software Version: 8.0.0.4

Multi Array Sonic Calibration Report

Serial Number: C10037LS
 Tool Model: 001LS

Tool Module Parameters

Software Version: 8.0.0.2
 Integrated Transit Time Source: DT100120
 Porosity Source: DT100120
 Porosity Method: Wyllie
 Raymer Hunt Constant: N/A

Gamma Ray Calibration Report

Serial Number: 10015939
 Tool Model: 001

Performed: Mon Nov 13 12:01:40 2017

Calibrator Value: 156.0 GAPI

Background Reading: 117.4 cps
 Calibrator Reading: 567.2 cps
 Sensitivity: 0.3468 GAPI/cps

Borehole Fluid Resistivity Calibration Report

Serial Number: P004
 Tool Model: 002

Master Calibration Performed: Wed May 25 15:17:37 2016

Resistivity Polynomial Equation:
 $0.1429x^3 - 0.4495x^2 + 1.2097x - 0.2854$

Temperature Calibration:

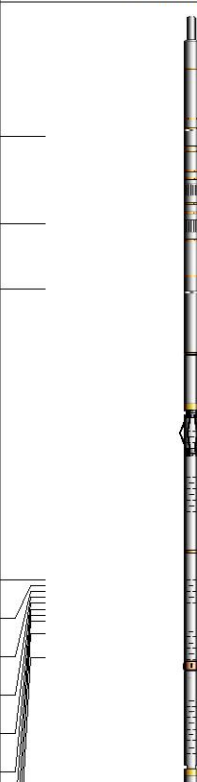
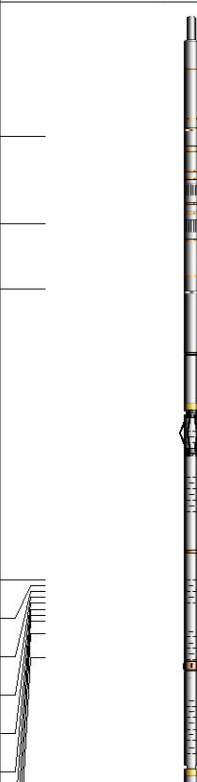
Reference		Reading	
71.60	degF	559.80	bits
167.00	degF	659.50	bits

Head Tension Unit Calibration Report

Serial Number: 00001
 Tool Model: 011

Performed: Tue Nov 29 12:33:39 2016

Point #	Reference		Reading	
1	-19894.000	lb	8957.860	cps
2	-15010.000	lb	13965.100	cps
3	-9998.000	lb	19076.100	cps
4	-5007.000	lb	24133.000	cps
5	-1009.000	lb	28232.100	cps
6	1017.000	lb	30185.400	cps
7	5040.000	lb	34439.700	cps
8	9970.000	lb	39346.900	cps
9	14955.000	lb	44466.000	cps
10	19770.000	lb	49397.800	cps

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)	
HTEN	73.78		CHD-001 (000004) Cable Head	2.19	3.38	35.00	
			XTU-008 (1399 High Power) Crossover Ultrawire Toolbus to Ultralink	2.08	3.38	47.00	
HTU-011 (00001) Head Tension Unit	2.18		3.38	55.00			
BFR	70.14		BFR-002 (P004) Borehole Fluid Resistivity	4.39	3.38	94.00	
GR	67.38		GRT-001 (10015939) Gamma Ray Tool	3.22	3.38	69.00	
			Centralizer-Overbody Overbody Centralizer	2.00	6.88	5.00	
WVFATR8	55.26			MAS-001LS (C10037LS) Multi Array Sonic Tool (LS)	19.83	3.38	340.00
WVFATR7	55.01						
WVFATR6	54.76						
WVFATR5	54.51						
WVFATR4	54.26						
WVFATR3	54.01						

WVFATR2	53.76		MEL-003 (10022649) Micro Electric Log	9.17	3.38	190.00
WVFATR1	53.51		CEN-001 (C10025) Inline OH Springbow Centraliser	4.27	3.38	66.00
WVF5FT	53.01		KJT-001 (000001) Knuckle Joint	2.86	3.38	72.00
WVF3FT	52.01		CNL-009 (C10071) Compensated Neutron Logging Tool	5.28	3.38	100.00
MEL	37.55		LDT-002 (B113S50129B) Litho Density Tool	9.75	4.50	310.00
CNLSC	25.59		Standoff-Rubber Rubber Fin Standoff	1.08	4.88	3.00
CNSSC	25.09		IAT-002 (B10106) Induction Array Tool	13.22	3.88	196.00
LDT	15.44		Short-1 Short Hole Finder	0.38	3.88	6.00
IAT	8.44					
SP	0.43					
Dataset:		bengalia-faris2-35.db: field/well/run1/pass7				
Total length:		78.81 ft				
Total weight:		1588.00 lb				
O.D.:		6.88 in				

	Company:	Bengalia Land & Cattle Company
	Well:	Faris # 2-35
	Field:	WC
	State:	Kansas

FARIS #2-35
35 - T26S - R31W
Finney County, KS.

MORROW SS
5,002': 60" CFS
16x

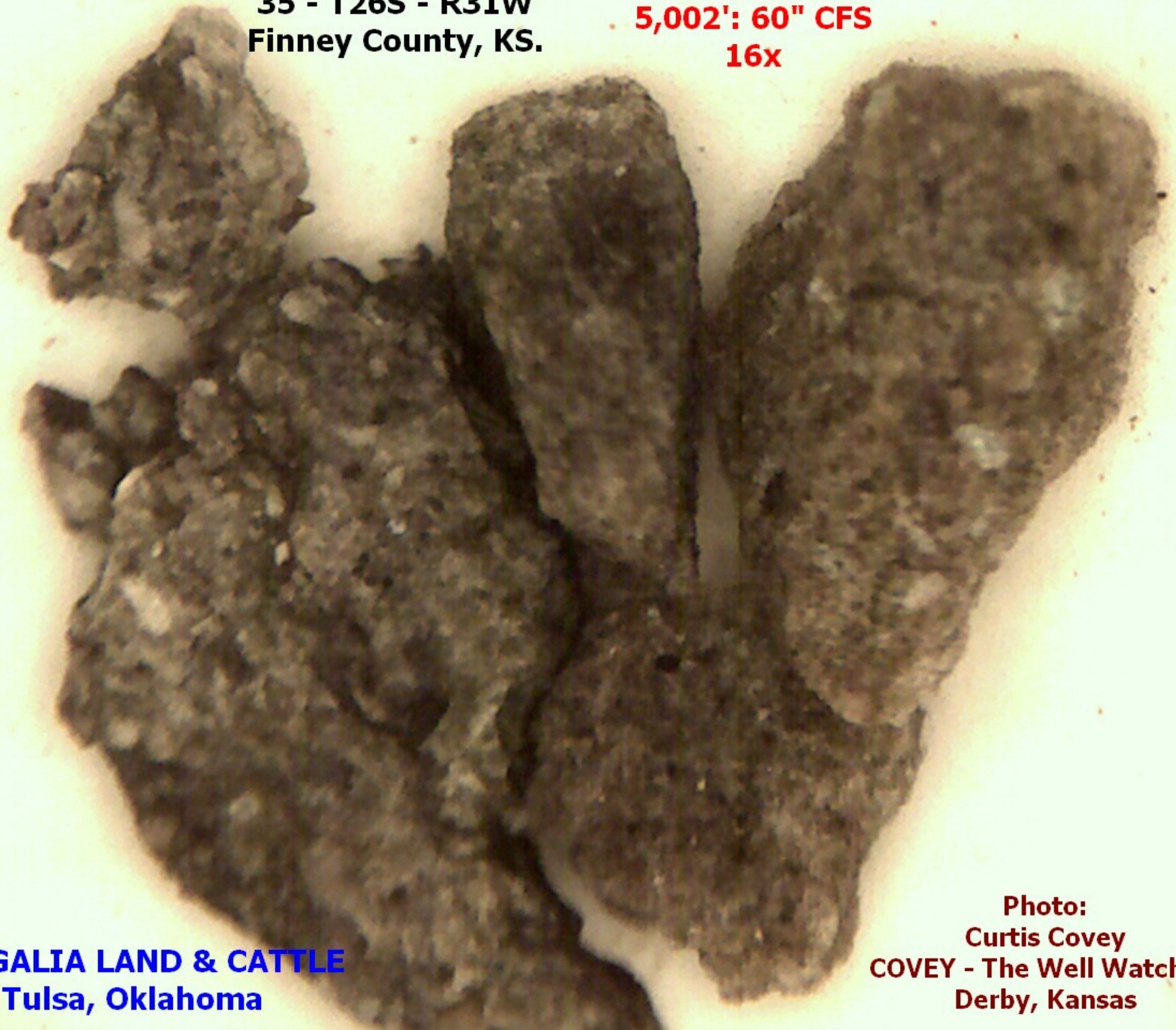


Photo:
Curtis Covey
COVEY - The Well Watchers
Derby, Kansas

BENGALIA LAND & CATTLE
Tulsa, Oklahoma

**FARIS #2-35
35 - T26S - R31
Finney County, KS.**

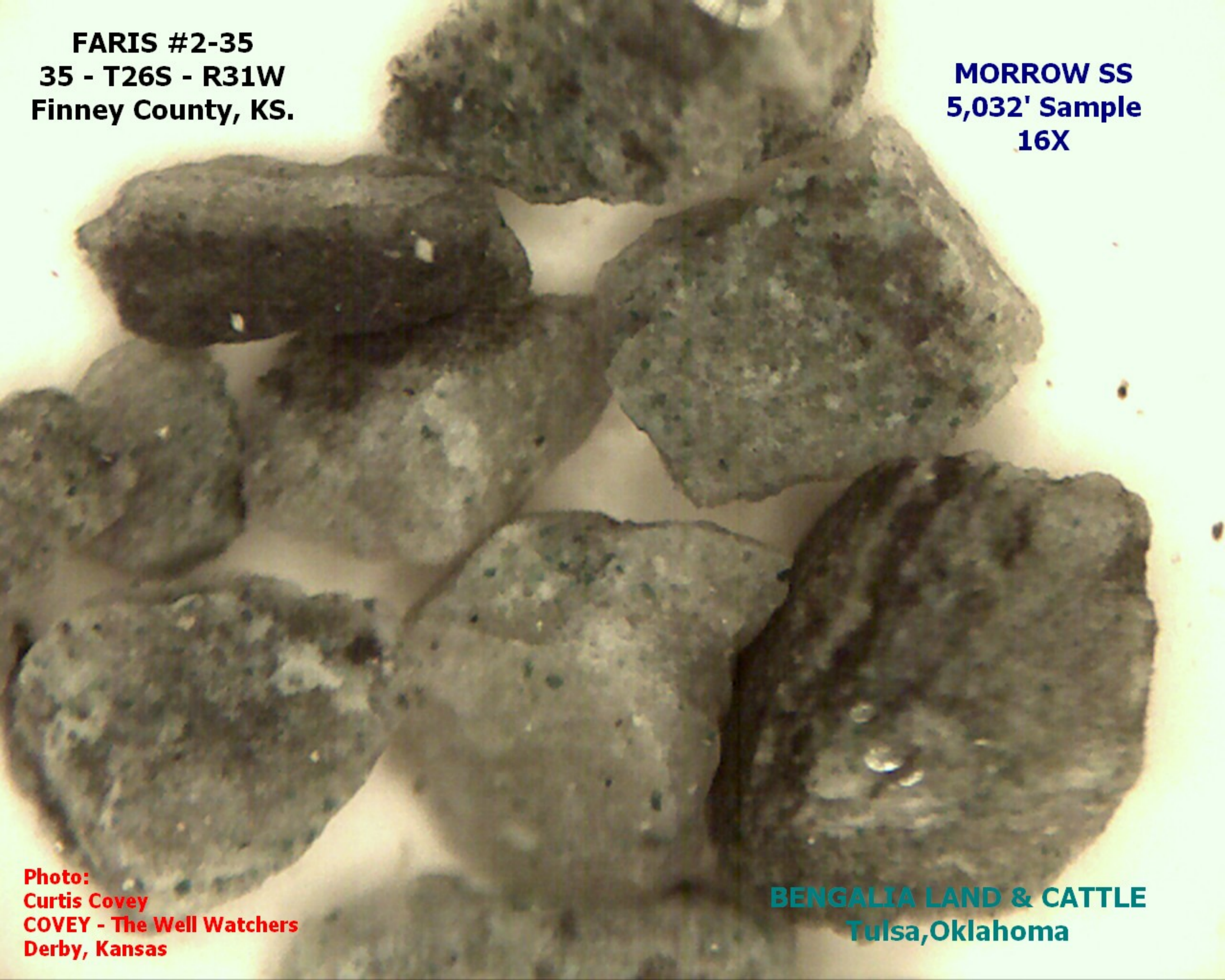
**Morrow SS
5,022' Sample
20X**

**Photo:
Curtis Covey
COVEY - The Well Watchers
Derby, Kansas**

**BENGALIA LAND & CATTLE
Tulsa, Oklahoma**

**FARIS #2-35
35 - T26S - R31W
Finney County, KS.**

**MORROW SS
5,032' Sample
16X**

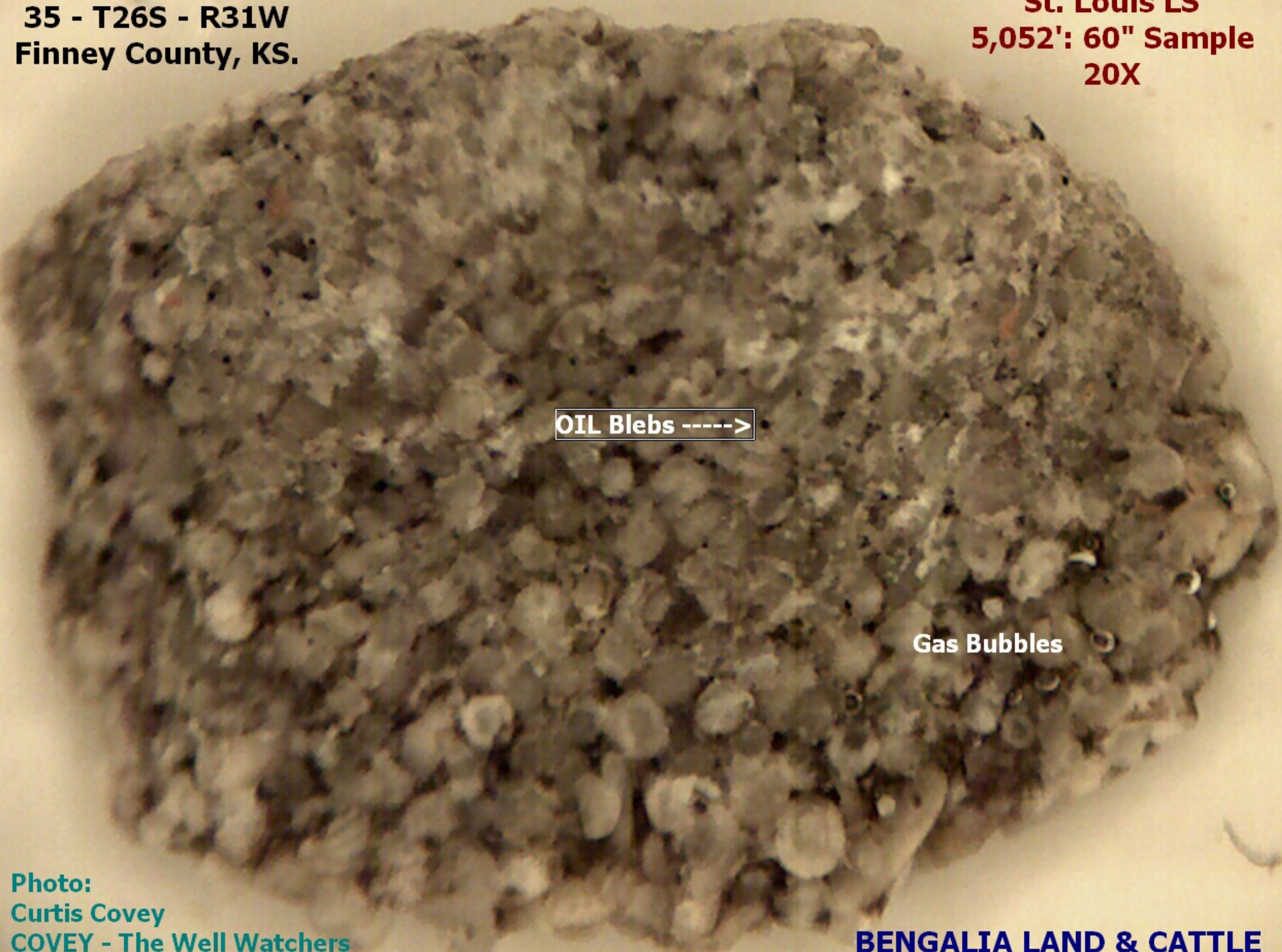


**Photo:
Curtis Covey
COVEY - The Well Watchers
Derby, Kansas**

**BENGALIA LAND & CATTLE
Tulsa, Oklahoma**

**FARIS #2-35
35 - T26S - R31W
Finney County, KS.**

**St. Louis LS
5,052': 60" Sample
20X**



OIL Blebs ----->

Gas Bubbles

**Photo:
Curtis Covey
COVEY - The Well Watchers
Derby, Kansas**

**BENGALIA LAND & CATTLE
Tulsa, Oklahoma**

Covey

The Well Watchers

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

Well Name: FARIS #2-35

Well Id:

Location: Section 35 - Township 26S - Range 31 West

License Number: 15-0550-22522-00-00

Region: Finney County, KS.

Spud Date: 10 August 2019

Drilling Completed: 26 August 2019

Surface Coordinates:

2,245' FSL & 1,525' FEL

(NAD 83 LAT: 37.742536811 NAT 83 LONG: 100.675762827)

Bottom Hole

Coordinates:

Ground Elevation (ft): 2,810'

K.B. Elevation (ft): 2,816'

Logged Interval (ft): 2,500' To: 6,200' Total Depth (ft): 6,200'

Formation: Chase -----> Arbuckle

Type of Drilling Fluid: Displace @ 2,500' - Hydrogel/Starch & Displace @ 3,100' - Chemical, Low Solids.

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

OPERATOR

Company: BENGALIA LAND AND CATTLE COMPANY

Address: P. O. Box 5210008
Tulsa, Oklahoma 741052
(918) 526-5523

POC: Calvin Hullum
David Hullum

GEOLOGIST

Company: **COVEL - The Well Watchers**

Address: **6548 Bedford Circle
Derby, Kansas 67037**

Office: (316) 776-0367

Cell: (316) 217-4679

KB: 2,816'

FORMATION TOPS

GL: 2,810'

Formation	Rotary Sample Depth (Datum)	E-log Depth (Datum)
Chase Group _____	2,681' (+135') _____	2,668' (+148')
Council Grove _____	3,021' (-205') _____	3,006' (-190')
Foraker _____	3,285' (-469') _____	3,268' (-452')
Wabaunsee _____	3,396' (-580') _____	3,386' (-540')
Stotler _____	3,514' (-698') _____	3,500' (-684')
Topeka _____	3,779' (-963') _____	3,762' (-946')
Heebner Shale _____	4,096' (-1,280') _____	4,080' (-1,264')
Lansing _____	4,172' (-1,356') _____	4,158' (-1,342')
Stark Shale _____	4,533' (-1,717') _____	4,516' -1,700')
B / KC _____	4,650' (-1,834') _____	4,634' (-1,818')
Marmaton _____	4,669' (-1,853') _____	4,652' (-1,836')
Cherokee Shale _____	4,803' (-1,987') _____	4,784' (-1,968')
Morrow Shale _____	4,992' (-2,176') _____	4,974' (-2,158')
Miss _____	NC _____	5,028' (-2,212')
Viola _____	5,896' (-3,080') _____	5,872' (-3,056')
Simpson _____	NC _____	6,056' (-3,240')
Arbuckle _____	6,086' (-3,262') _____	6,058' (-3,242')

RTD: 6,200' LTD: 6,180' ATD: 6,204'

Float:
Rotary Sample Depth is 2' high - 17' low to E-log Depth.

E-Loggers:
Allied Horizontal Wireline Services ____
Oklahoma City, Oklahoma

2019

DAILY DRILLING - AUGUST

2019

12 1/4" Hole (Surface)

7-7/8" Hole (Vertical)

7-7/8" Hole (Vertical)

11 -- 7am@500'.
 12 -- 7am@1,771'.
 Drilled to 1,822' @8:57pm.
 Ran 8-5/8" (23#) casing.
 Set @ 1,822'.
 600 sx A-Serv Lite
 (3% CC, 1/4# Polyflakes) +
 200 sx Class C
 (2% CC, 1/4# Polyflakes)
 [Basic Energy Services]
 Plug down @ 6pm.
 WOC.

Under Surface @ 7:30pm.
 Drill to 1,898' @8:15pm.
 Work on Mud Pump.
 Resume Drilling @ 10:35pm.
 14 -- 7am@2,320'. Drill to 2,562'
 @4:51pm. Displace @2,494'
 (Starch/Gal). Add Steel Pits.
 Saved mud. Transfer saved
 mud to steel pits. Add Pre-Mix
 to system.
 15 -- Resumed drilling @ 12:26am.
 7am@2,713'.
 Work on Pump @2,841'. Aired up
 Mud. Resumed Drilling @4:10pm.
 Drill to 2,912'. Electrical power
 problem effecting Pick-up Pump.
 Resumed Drilling @9:24pm.
 16 -- Displace @3,092' (Chemical).
 7am@3,092'.
 17 -- 7am@3,624'.
 18 -- 7am@4,124'.

BIT TRIP @4,261'. 7am@4,261'.
 Resumed Drilling @8:11am.
 20 -- 7am@4,365'.
 21 -- 7am@4,885'.
 22 -- Drill to 5,068' @5:11am.
 BIT TRIP @5,068'.
 7am@5,068'. Bit Damaged -
 Center gone on all 3 cones.
 T/I with magnetic. Recoverd 1/3+.
 Repeatedly break Circ on T/I.
 Circ & 'Ticke' bottom.
 Resumed drilling @9:48pm.
 23 -- 7am@5,200'.
 24 -- 7am@5,531'.
 25 -- 7am@5,885'.
 26 -- 7am@6,175'.
 RTD (6,200') @8:28am.
 E-Log on Bottom(6pm) ...
 Allied Horizontal Wireline

HOLE DEVIATION (455' - 6,200' MD)

12-1/4" Surface Hole

DEPTH / TVD	INCLINATION	AZIMUTH	NORTH	SOUTH	EAST	WEST	DOGLEG deg/100'
455 /	-- 0.75						
954 /	-- 0.75						
1,822 /	-- 0.75 (Surface Casing)						

7-7/8" Vertical Hole

2,305 /	-- 0.75
2,840 /	-- 0.50
4,186 /	-- Bull's eye (Lansing)
5,068 /	-- 0.75 (Bit Trip)
6,200 /	-- 1.50 (RTD)

Board: NA
 Strap: NA
 Diff: NA

CONTRACTOR

Duke Drilling Co, Inc. — Rig # 4

100 South Main, Suite 410
Wichita, Kansas 67202
Office: (316) 237-1331

Duke #4 - (620) 793-0833

Toolpusher: Hector Torres (620) 793-0834

Pump: IDECO 550
6" x 15" @ 57 SPM.
875 - 900+ PSI @ Standpipe.

Drill Pipe: 4" XH. (14#/ft - new)

Drill Collars: 6-1/8" x 2-1/4" — 538'. (87#ft)
Dry Collar Weight: 46,806#
(@ 8.7 ppg / Buoyancy Factor 0.8675)
Buoyancy Collar Weight: 40,604#
Design Factor: 15% held back to keep
drill string straight, therefore:
available WOB is 34,514#

Depth: 1,750' - 4,230' = 28M - 30M WOB (uncorrected) @ 65 - 75 RPM
= 33.2M - 35.6M (corrected)

4,230' - 4,261' = 38W WOB (uncorrected) @ 65 - 75 RPM, per toolpusher.
= 44.2M WOB (corrected).

This exceeds available buoyancy weight of drill collars.

4,261' - 4,612' = 30M WOB (uncorrected) @ 65 - 75 RPM = 35.6M WOB (corrected)

This just exceeds calculated WOB of drill collars but not buoyancy weight.

4,612' - 4,970' = 34M WOB (uncorrected) @ 65 - 75 RPM = 39.6M WOB (corrected)

This almost exceeds available buoyancy weight of drill collars.

4,970' - RTD' = 30M-32M WOB (uncorrected) @ 65 - 75 RPM = 35.6M WOB (corrected)

This just exceeds calculated WOB of drill collars but not buoyancy weight.

Buoyancy weight of Drill Collars is all the weight available to pull down on Drill Pipe (to keep it straight and not bang on well bore) and push down (available Weight on Bit).

When buoyancy weight is exceeded: the top of the collars are "in orbit" and not directly over the bit, as well as, several stands of Drill Pipe are in compression (i.e. nothing is keeping the string straight) and is bad for rock sample quality.

Check Weight Indicator @ 3,155'.

Calculated String Weight (85,901#) -vs- Observed WI (70,000#).

WI weighing 18.5% light -vs- Calculated String Weight.

WOB of 20M# on WI = 23.7M# Actual WOB.

WOB of 28M# on WI = 33.2M# Actual WOB.

Check Weight Indicator@4,217.
 Calculated String Weight (97,871#)-vs- Observed WI (82,000#).
 WI is weighing 16.4% light, therefore 1# showing = 1.164# actual on bit.

WI weighing 16.4% light -vs- Calculated String Weight.
 WOB of 38M# on WI = 44.2M# Actual WOB.
 This uses all collar weight and 6+ stands of DP.
 Therefore collars 'in orbit' and DP is beating wellbore.

BIT RECORD

DATE	SIZE	TYPE (ADC)	JET SIZE	DEPTH IN / OUT	CUM. FT.	HOURS	ROP (#/hr)
SURFACE —							
10 Aug 2019	12-1/4"	SMITH TDS-CPS	15's	0' / 1,822'	1,822	26.25	69.4
VERTICAL —							
13 Aug 2019	7-7/8"	SMITH FZ7IR (572)	14's	1,822' / 4,261'	2,439	82.00	29.7
19 Aug 2019	7-7/8"	SMITH FZ7IR (572) Used	SMITH 14's	4,261' / 5,068'	807	59.50	13.6
22 Aug 2019	7-7/8"	FH24Y (571)	14's	5,068' / 6,200'	1,132	71.75	15.8

ROCK TYPES

POROSITY

	Earthy
	Fenest
	Fracture
	Inter
	Moldic
	Organic
	Pinpoint
	Vuggy

	Lmst 2
	Lmst
	Meta
	Mrlst
	Salt
	Shale 3
	Shale 3
	Shale
	Shcol
	Shov

	Chtlt
	Dol
	Feldspar
	Ferrpel
	Ferr
	Glau
	Gyp
	Hvymin
	Kaol
	Marl

STRINGER

	Dol ls
	Silty dol
	Anhy
	Arg
	Bent
	Coal
	Dol
	Gyp
	ls

	Anhy		Ss		Bent		Brec		Cht		Clyst		Coal		Granite wash		Congl		Dol 1mst		Silty dol		Calc dol		Dol 2		Dol		Gyp		Igne
	Nodule		Phos		Pyr		Salt		Sandy		Silt		Sil		Sulphur		Tuff		Copper		Ooliticastic		Ooloid		Oolite		Sucrosic		Dark specks		
	Calc dol		Siltstrg		Ssstrg		Chalk		New symbol		SHOW		Oil		Spotted		Ques		Dead		Gas		Oil/gas		Bed contact						

	FOSSIL		Algae		Amph		Belm		Bioclst		Brach		Bryozoa		Cephal		Coral		Spore		Crin		Echin		Fish		Foram		Fossil		Gastro		Onlite
	Pisolite		Plant		Strom		MINERAL		Mica		Anhy		Arggrn		Arg		Bent		Bit		Brecfrag		Calc		Carb		Chtdk		Chttt		Dol		
	Glauc		Gyp		Hvymin		Kaol		Marl		Minxl		Nodule		Phos		Pyr		Salt		Sandy		Silt		Sil		Sulphur		Tuff		Copper		Ooliticastic
	Dark specks		STRINGER		Dol ls		Silty dol		Anhy		Arg		Bent		Coal		Dol		Gyp		LS		Mrst		Calc dol		Siltstrg		Ssstrg		Chalk		

ACCESSORIES

	Pisolite		Plant		Strom																												
	MINERAL		Mica		Anhy		Arggrn		Arg		Bent		Bit		Brecfrag		Calc		Carb		Chtdk		Chttt		Dol								
	Glauc		Gyp		Hvymin		Kaol		Marl		Minxl		Nodule		Phos		Pyr		Salt		Sandy		Silt		Sil		Sulphur		Tuff		Copper		Ooliticastic

Pelec
Pellet

Ferrpel
Ferr

Oolite
Sucrosic

OTHER SYMBOLS

ACTIVITY

Lost circulation

Circulate for sample 2



Circulate for samples



Rtd



Trip

EVENT



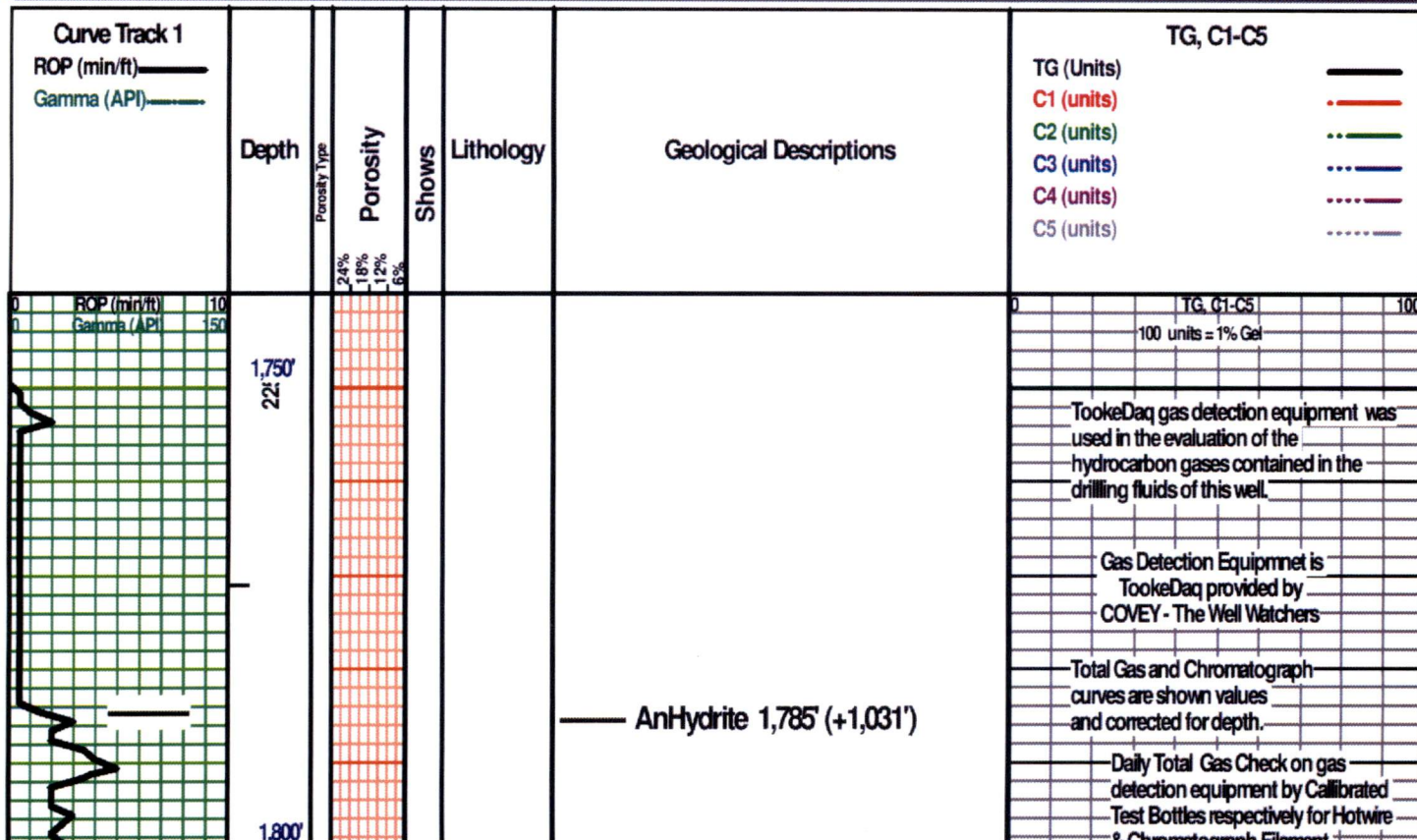
Connection

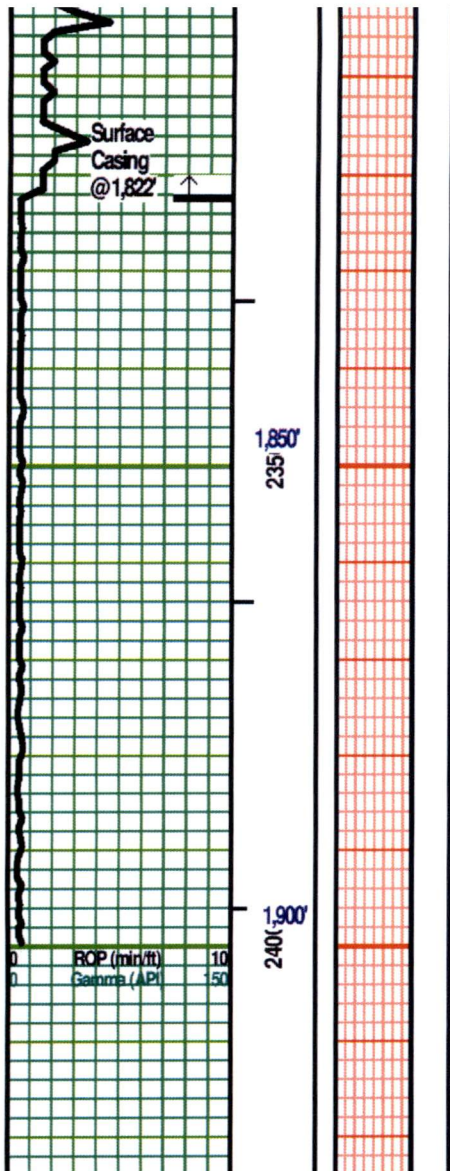


Rft



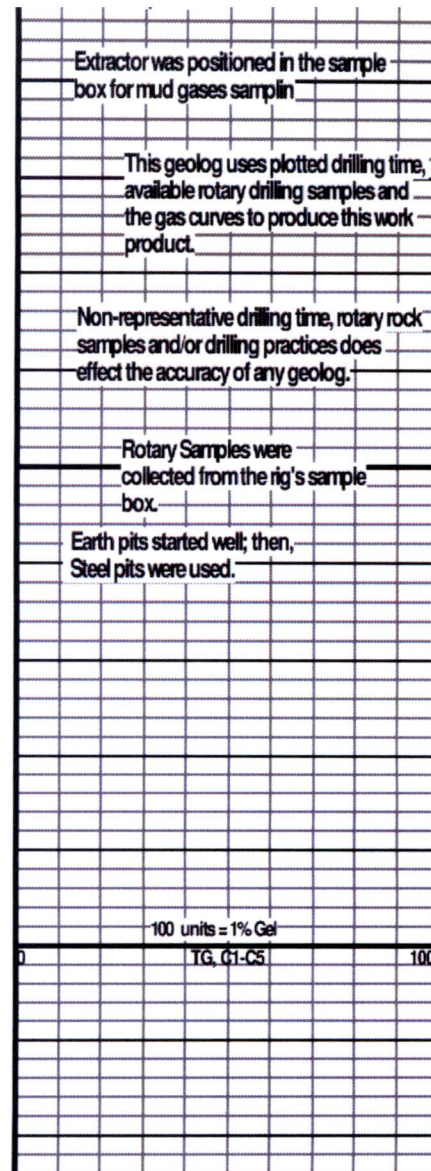
Sidewall

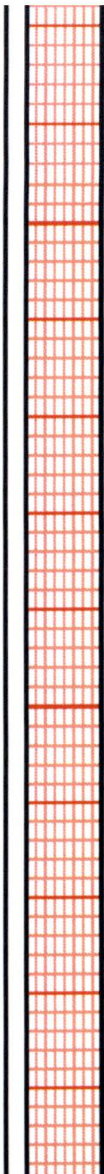
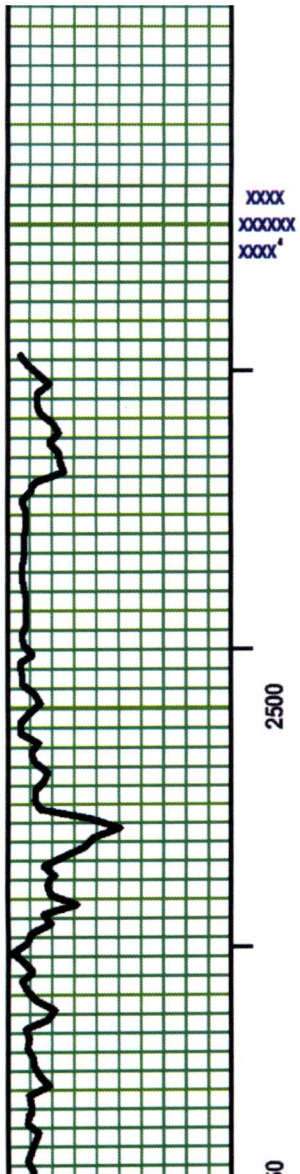




Surface Casing set @ 1,822'

~ Hole Dev: 0.75 deg @ 1,822'

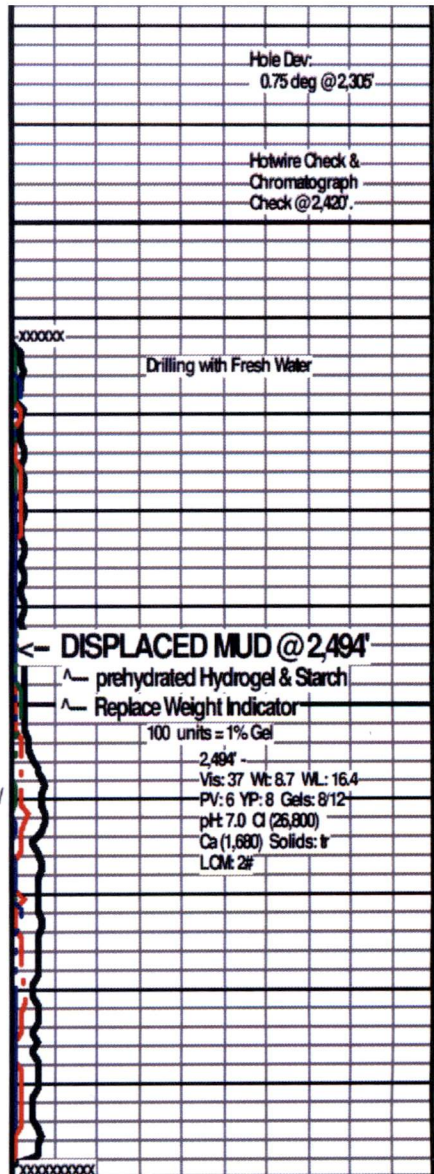


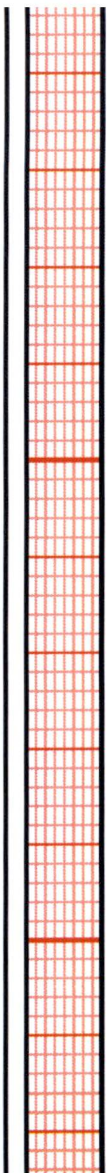
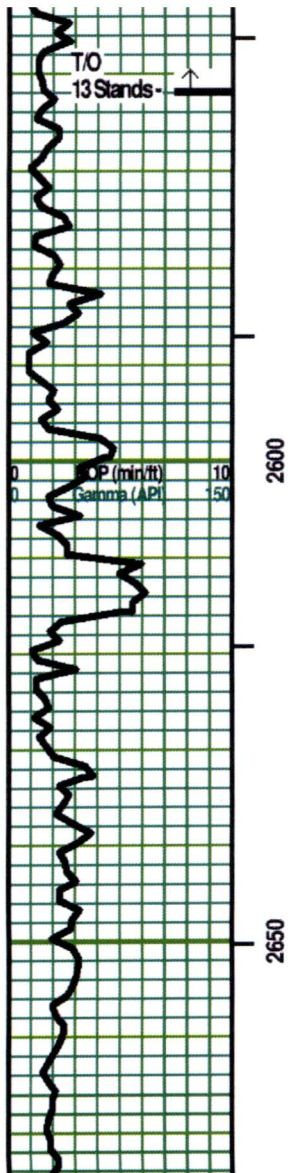


Interbedded and Intermixed:

SH - Pale Gray / Lt Gray, Pale greenish Gray. (Uphole reddish brown Sh & Siltstone.) Massive/ some lam's. No/ some Reddish Brown. soft.

AnH - Off Whitish Gray / Off White / Lt Gray. Mix/Mot/ some Sing. misc gray inclusions in part. Opaque to tr semi-transparent.

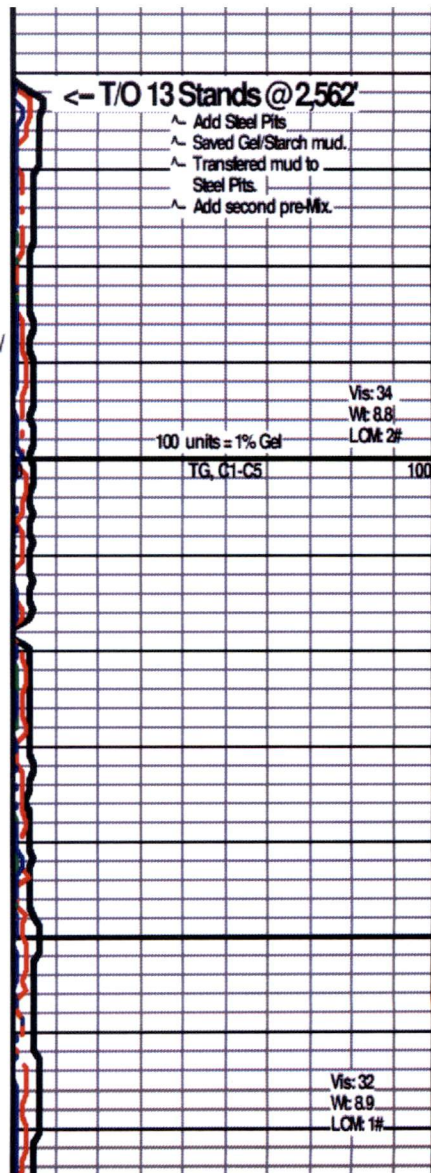


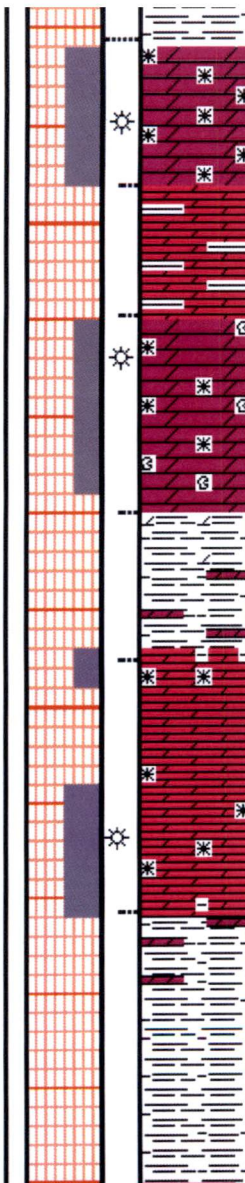
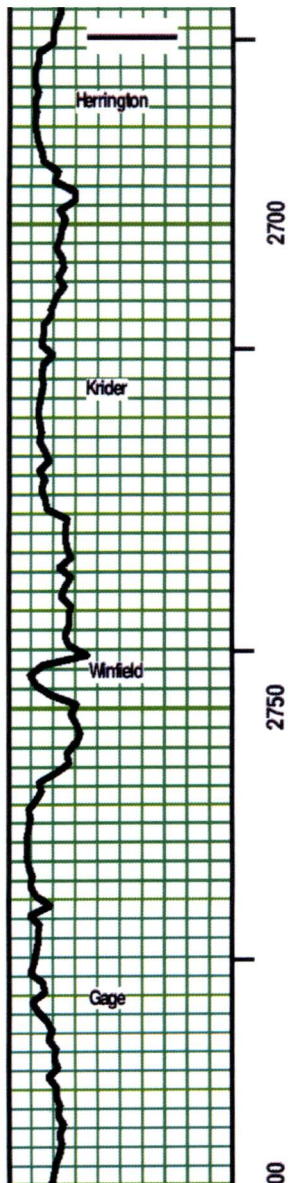


Interbedded and Intermixed:
AnH - Off Whitish Gray / Off White / Lt Gray. Mix/Mot/
some Sing. misc gray inclusions in part. Opaque to tr
semi-transparent.

SH - Pale Gray / Lt Gray, Pale greenish Gray. (Uphole
reddish brown Sh & Siltstone.) Massive/ some lam's. No/
some Reddish Brown. soft.

few/trpcs: Dol - Pale Gray/ Tannish Gray. Sing.
Crypto-xin. xin por. some clear/ semi transparent AnH
veining.





DOL (1) - Lt / Med Tan. Sing. Micro-Re-xin. xin and subeuهدral Re-xin. mostly soft. Massive, partly friable. tr vis por. No/? odor. Spotted/ some uniform Yellow fluorescence. No free gas or oil. No stain. Positive cut/residual. Positive acid/residual.

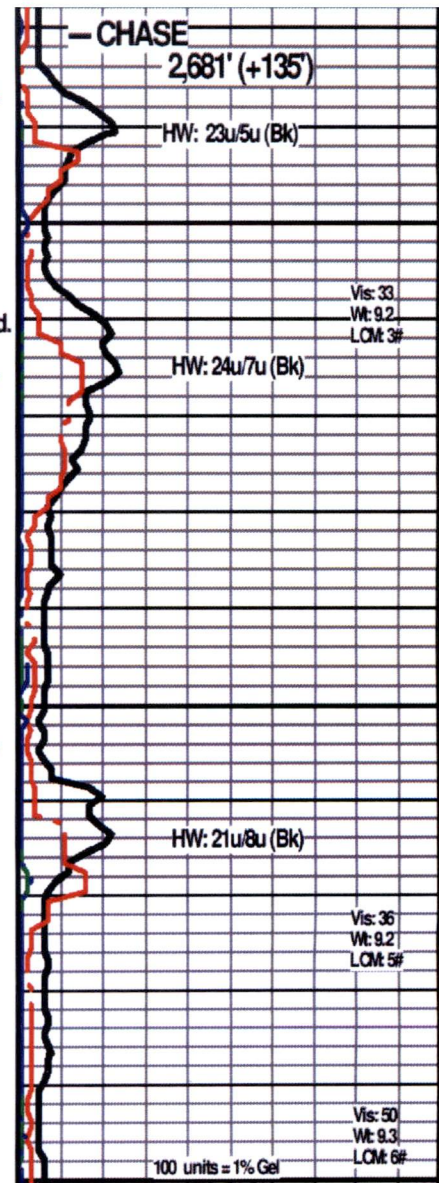
DOL - similar to (1) above. Add SH- Lt Gray, discreet, disconnect stringers in part.)

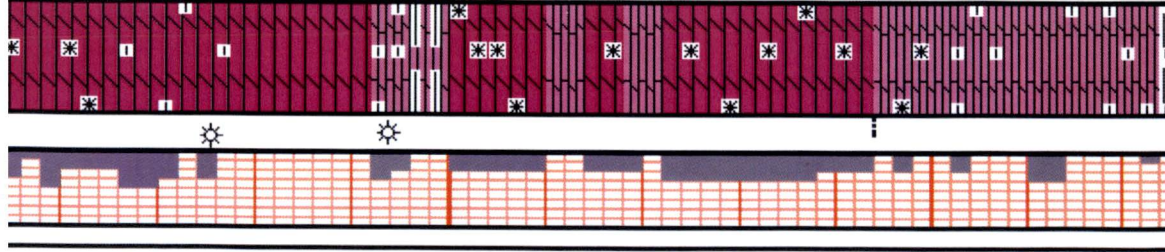
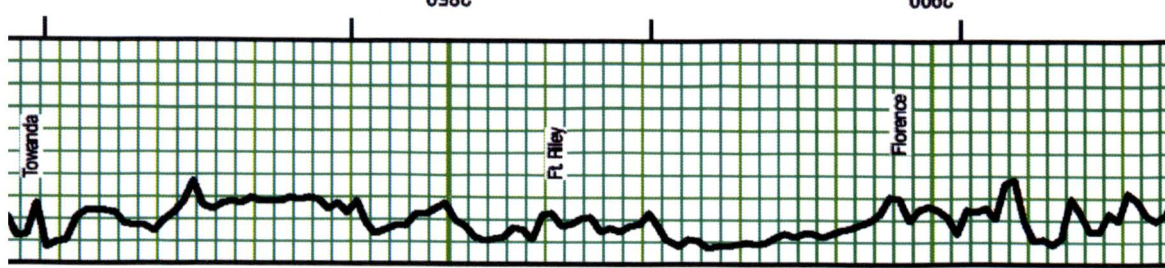
DOL - Lt / Med Tan. rare Whitish Pale Gray. Sing/ tr Mixed. mixture of XF/ Micro-Re-xin. xin & part por. Ang/SAng Med Gray argil fragments (F) intermixed. Massive, partly Friable. No/? odor. Spotted/ some uniform Yellow fluorescence. No free gas or oil. No stain. Positive cut/residual. Positive acid/residual.

SH - Med Gray Sing. dol streaks/stringers similar to above.

DOL - Lt / Med Tan. Pale / Lt Gray. Sing/ some Mixed. mixture of XF/ Micro-Re-xin. xin & part por. Ang/SAng Med Gray argil fragments (F/VF) intermixed. Massive, partly Friable. No/? odor. Spotted/ some uniform Yellow fluorescence. No free gas or oil. No stain. Positive cut/residual. Positive acid/residual towards bottom.

SH - tr Lt/ mostly Med Gray. Sing. dol streaks/stringers and frags similar to above.



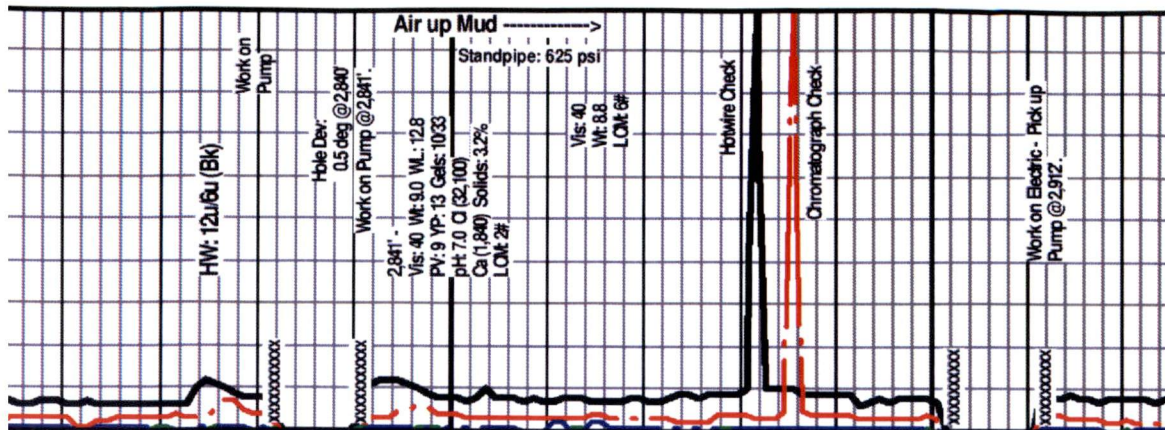


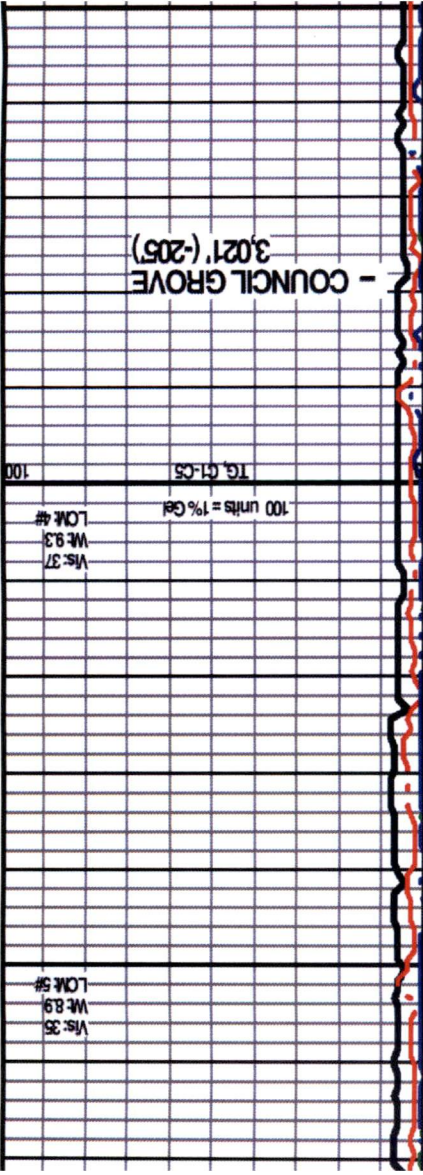
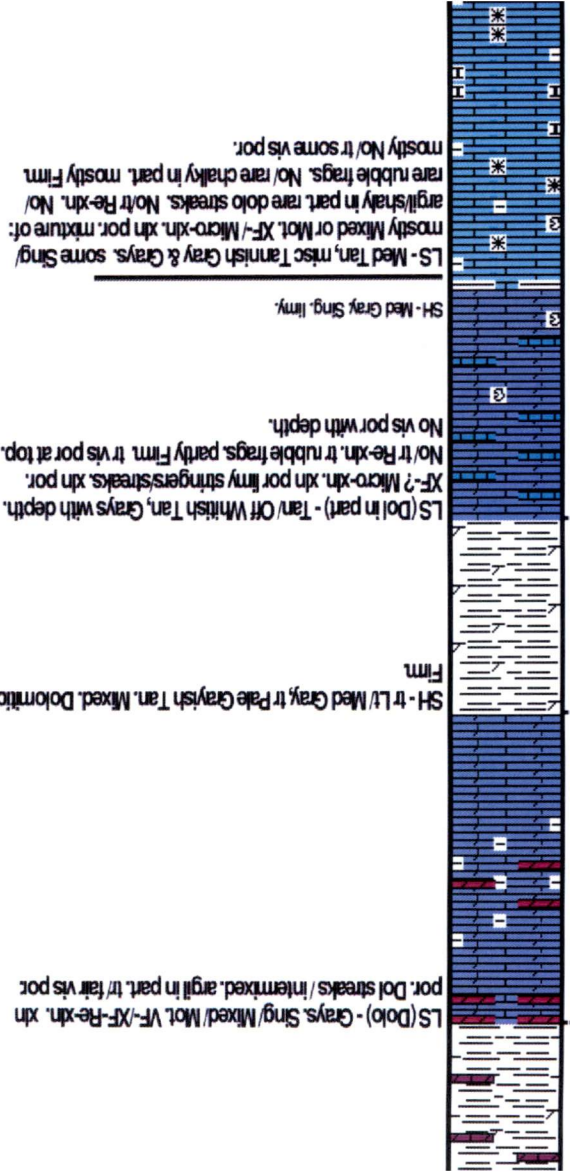
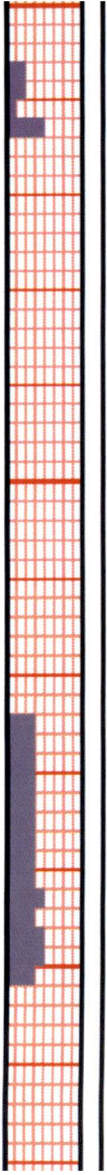
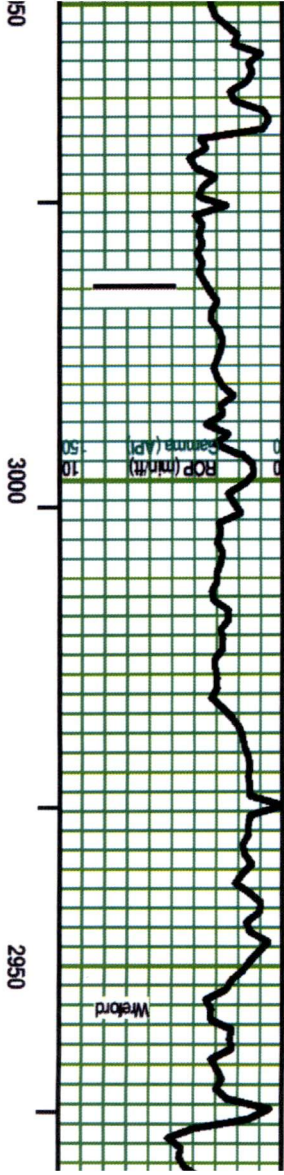
Med Gray argil fragments (F/VF) intermixed. Massive, partly Friable.

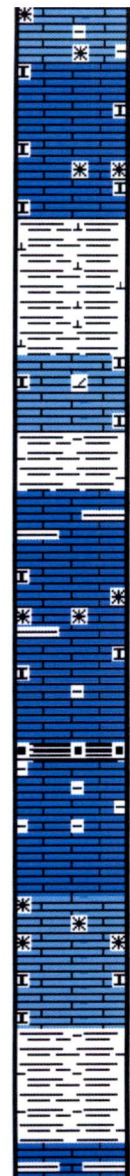
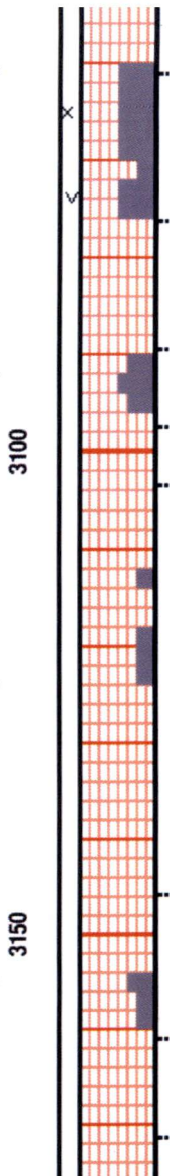
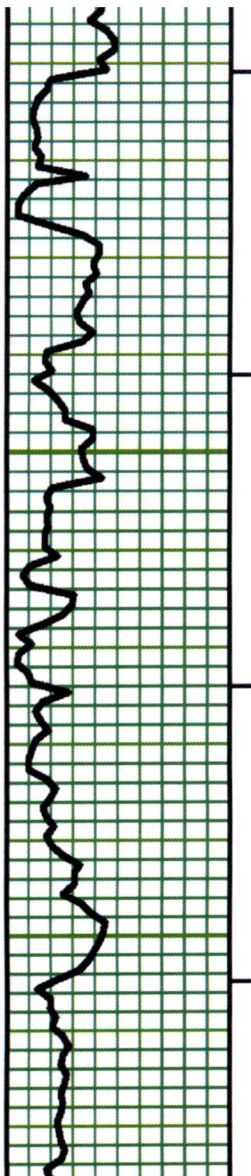
few pos with depth: No? odor. Spotted/ some uniform Yellow fluorescence. No free gas or oil. No stain. Weak Positive cut/residual. Weak Positive acid/residual towards bottom.

DOL (tr Calc in part) - some Lt/ mostly Med Gray. XF-VF-Re-xln, xln por. shaly in part, part Friable. No/tr vis por. At top: ? odor. Spotted/ some uniform Yellow fluorescence. No free gas or oil. No stain. Weak Positive cut/residual. Weak Positive acid/residual towards bottom.

Dol (tr calc) - Tans. Grays with depth. XF-Micro-Re-xln. xln por. argil in part, partly Firm. No/tr vis por.







LS - Whitish Tan/ Lt Grayish Tan. Sing/ tr Mot. XF/XF-xln. xln & rare minute vuggy por. tr chalky. No/tr Re-xln. tr vis por.

SH - Lt/ Med Gray, Off Tannish Gray. Sing. Hi calc. mostly Firm.

LS - Tan. Sing. XF-xln. xln por. rare dol. chalky. tr vis por.

SH - Med Gray. Sing. Limy. Firm.

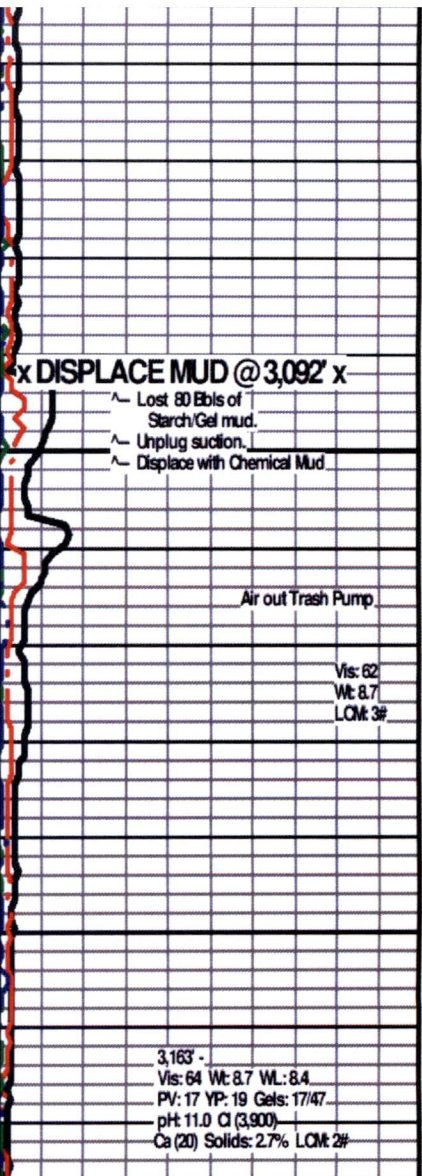
LS - Tan/ Off Whitish Tan. Sing/ tr Mot at top. Grays with depth. Mixed. XF-/ Micro-xln. xln por. mostly No/ rare Re-xln. chalky in part. argil/shaly with depth. Friable. tr vis por.

Add few pcs: SH - Black. Sing. tr fissile.

LS - Tan. Sing. Micro-xln. xln por. No tr Re-xln. Chalky with depth. mostly Firm. No/ tr vis por.

SH - Med Gray. Sing. some limy streaks. partly Friable. Massive.

LS - Tans/ Grays. Mot/ Mixed. XF-/ Micro-xln. xln por. No/ tr Re-xln. argil/shaly in part (stratified) to chalky.



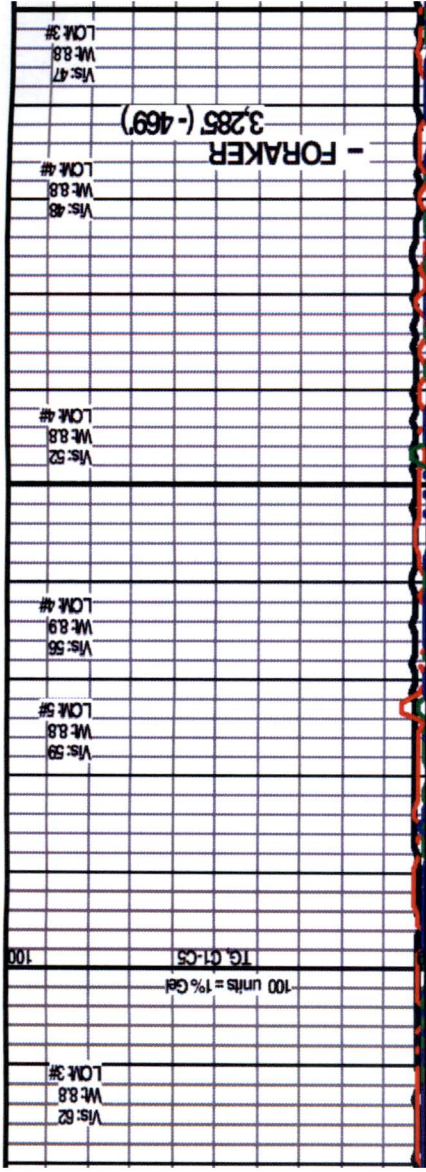
x DISPLACE MUD @ 3,092' x

- ^ Lost 80 Ebls of Starch/Gel mud.
- ^ Unplug suction.
- ^ Displace with Chemical Mud

Air out Trash Pump

Vis: 62
Wt: 8.7
LOM: 3#

3,163' -
Vis: 64 Wt: 8.7 WL: 8.4
PV: 17 YP: 19 Gels: 17/47
pH: 11.0 Cl (3,900)
Ca (20) Solids: 2.7% LOM: 2#

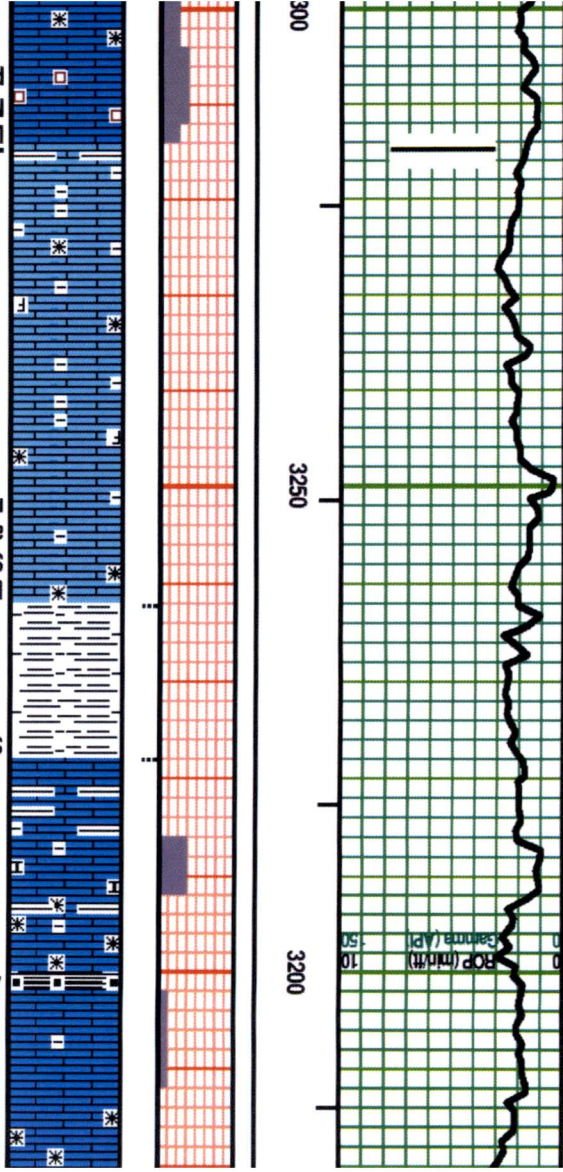


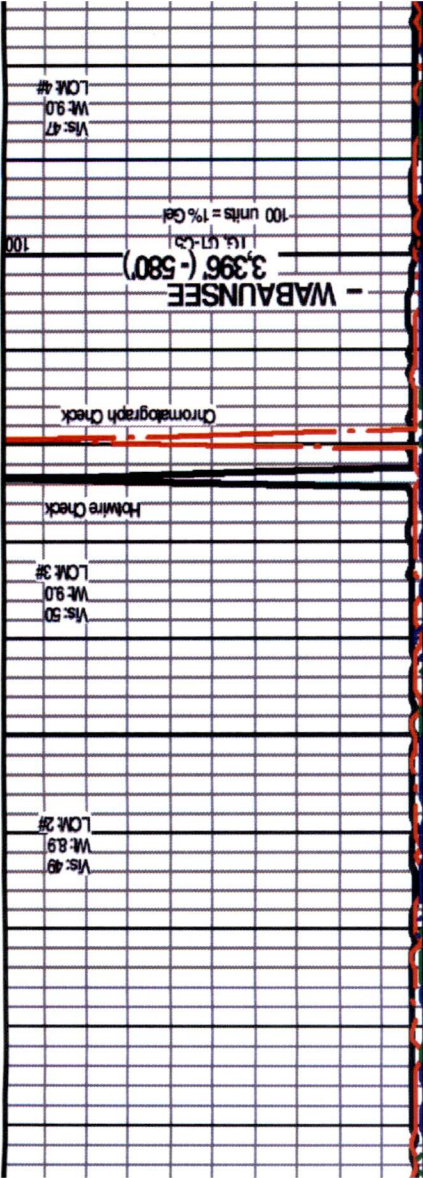
Add few pcs: SH - Black, Sing, & fossilie

SH - Med Gray, Sing, No/ some limy, Firm

LS - L/ Med Tan, tr Off White Tan, Grays with depth, Sing/ Mod/ tr Mixed, VF-/XF-xln, xln por, No/ tr Re-xn, argill/ shaly (lams, flecks and frags) in part with depth, mostly No/ rare fossil frags, mostly firm, No/ tr vis por.

LS - Tans, tr some Grays, tr Sing/ mostly Mixed or Mottled, VF-/XF-xln, xln & tr sucrosic por, No/ tr Re-xln, partly Friable, tr vis por.



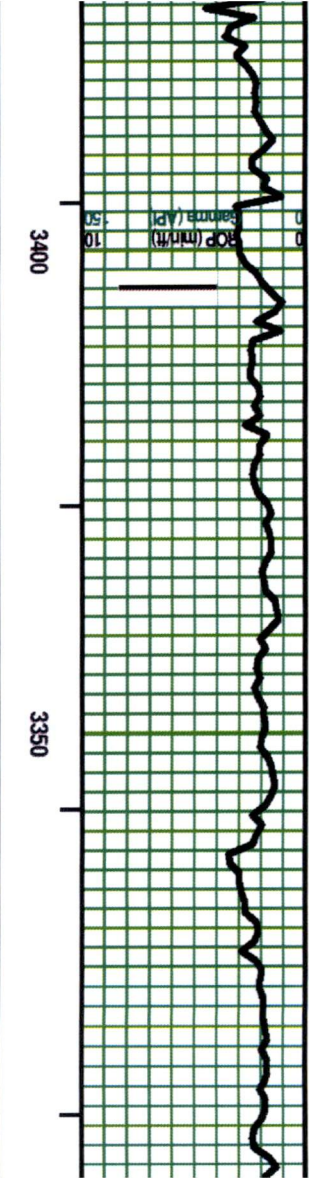
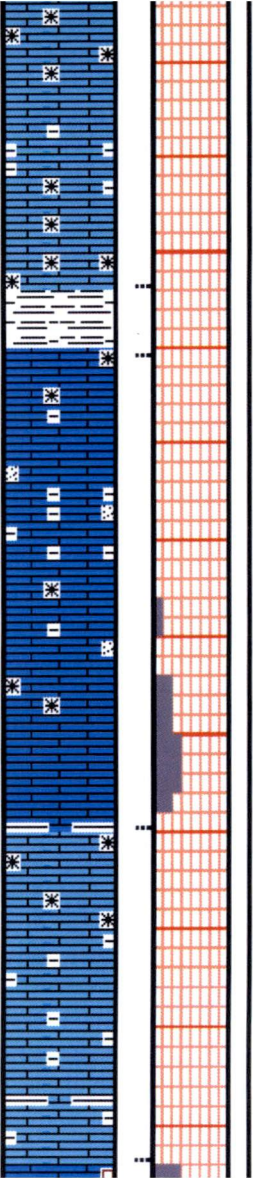


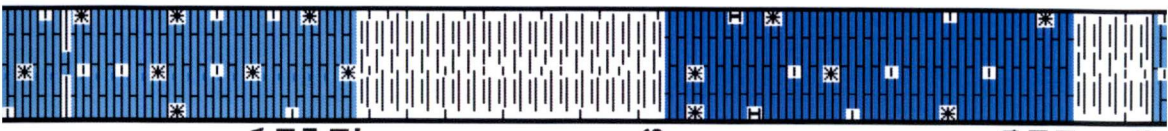
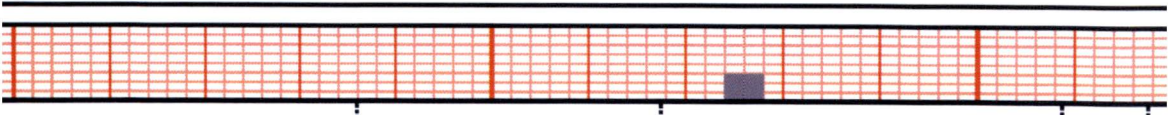
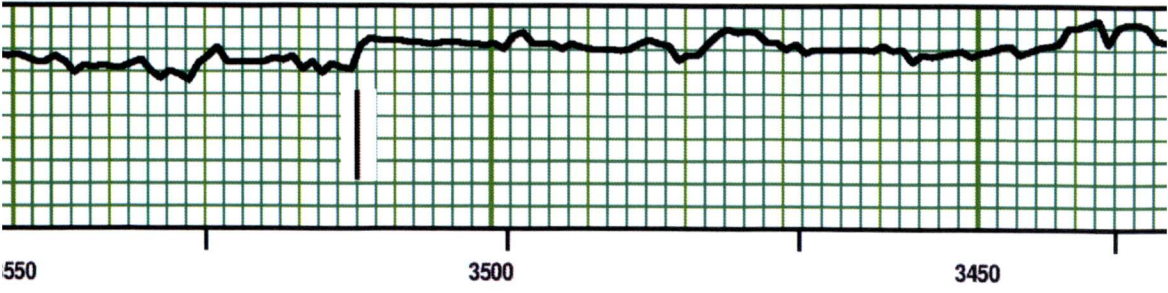
LS - Grays/ some Graysh Tan to Med Tan, tr Sing/ mostly Mixed or Mottled, VF-/XF-xln, xln por, No/ tr Re-xln, argill in part, some shale interbedding, partly Firm, tr vis por.

LS - Lt/ Med Tan, some Tannish Pale to Lt Gray, tr Med Gray, tr Sing/ some Mixed and Mot, VF-/XF-/ some Micro-xln, xln por, some 'grainy' texture pcs, No/ tr argill in part, partly Friable, No/ mostly tr to fair vis por.

LS - Interbedded Med Tan and Lt/ tr Med Gray or Tannish Gray, Sing/ tr Mot, Micro-xln at top, tr VF-/mostly XF-xln, xln por, argill in part, No/ some Re-xln, partly Firm, mostly No/ tr vis por.

SH - Med Gray, Sing, tr platy, tr calc.



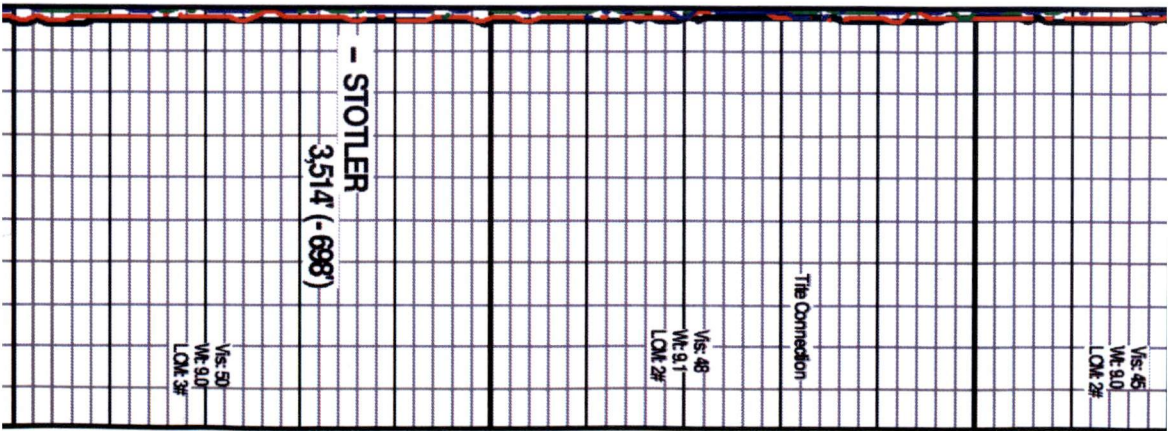


SH - Dark Gray, Sing, soft.

LS - Tans, some Tannish Gray, Sing/ Mixed, XF-/
Micro-xln, xln por. No/ tr Re-xln, argill in part, mostly No/
tr chalky in part, Massive, No/ tr vis por.

SH - Med/ Dark Gray, Sing, Massive, tr platy.

LS - Lt/ Med Tan, Grayish Tan, Tannish Gray, tr Sing/
mostly Mot or Mixed, XF-/ Micro-xln, xln por. No/ tr
Re-xln, argill shaly in part, No/ rare fossil frag, Firm, No/ tr
vis por.



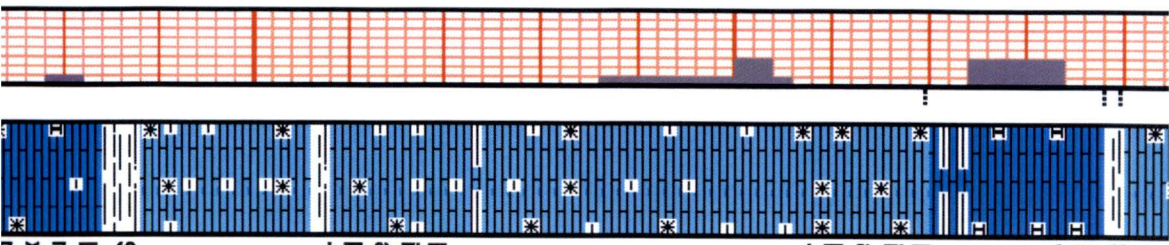
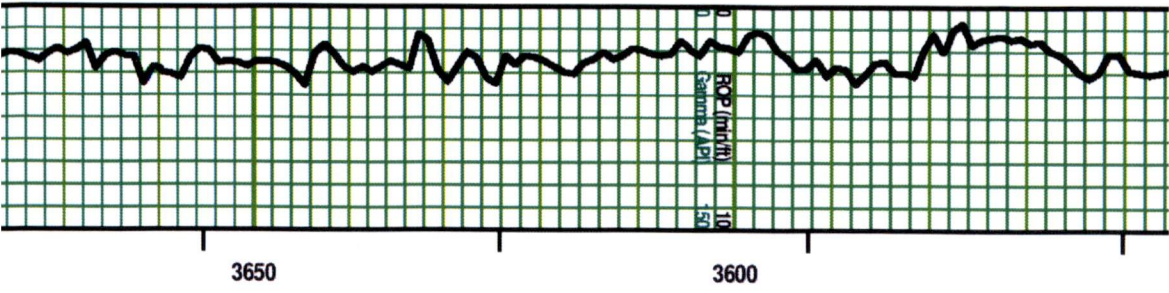
Vis 48
WE 9.0
LOK 2#

The Connection

Vis 48
WE 9.1
LOK 2#

- STOTLER
3,514' (- 698')

Vis 50
WE 9.0T
LOK 3#



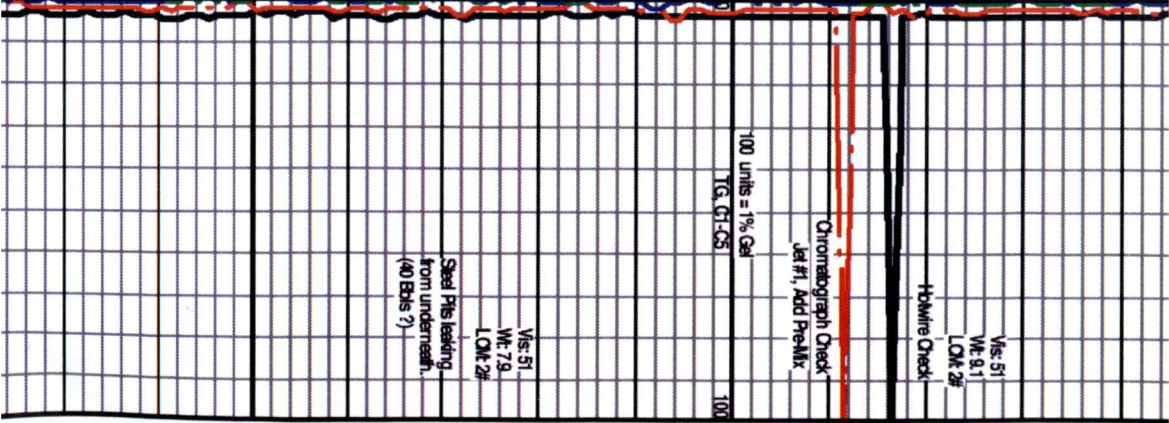
SH - Med Gray Sing. soft.
LS - Li/Med Tan. Sing. V-f-xin. xin por. tr chalky. Friable. tr vis por.

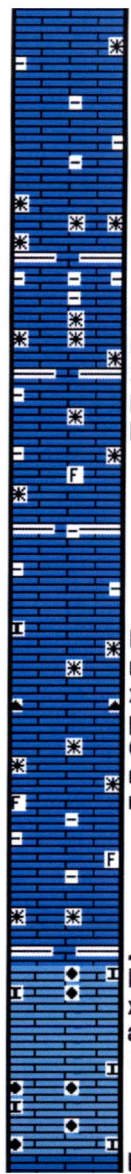
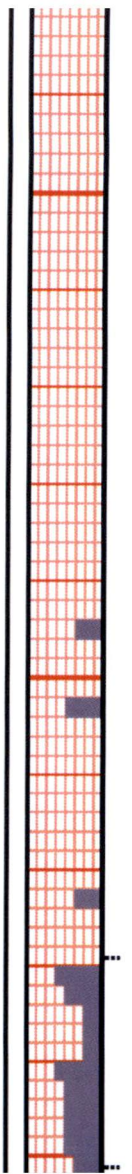
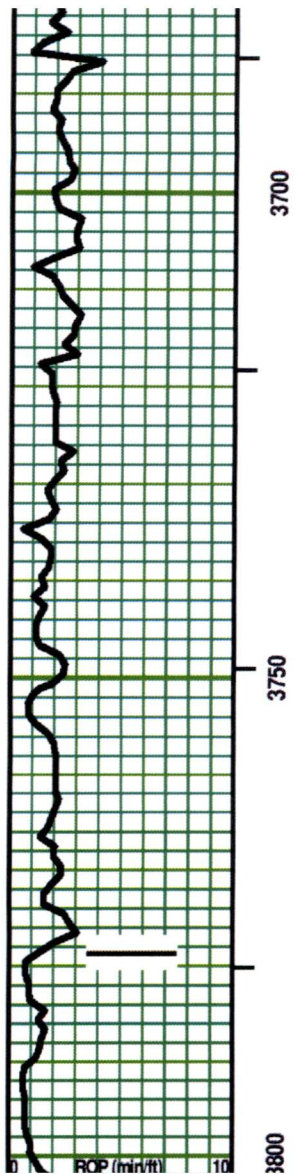
LS - Pale/Li/Med Gray. Grayish Tan. tr Sing./mostly interbedded/Mixed. Micro-/some Xf-xin. xin por. Re-xin at top. argilshaly in part. No/tr fossil frags. Firm at top, partly Friable with depth. mixture of No vis por at top and- tr vis por with depth.

LS - Pale/Li/Med Gray. Grayish Tan. tr Sing./mostly interbedded/Mixed. Micro-/some Xf-xin. xin por. Re-xin at top. argilshaly in part. No/tr fossil frags. Firm at top. partly Friable with depth. mixture of No vis por at top and- tr vis por with depth.

SH - Med Gray Sing. tr limy.

LS - Pale/Li/Med Gray. some Grayish Tan. tr Sing./mostly interbedded Mixed. mostly Micro-/some Xf-xin. xin por. Re-xin at top. argilshaly or shale interbedded in part. No/tr fossil frags. rare chalk in part. Firm at top.



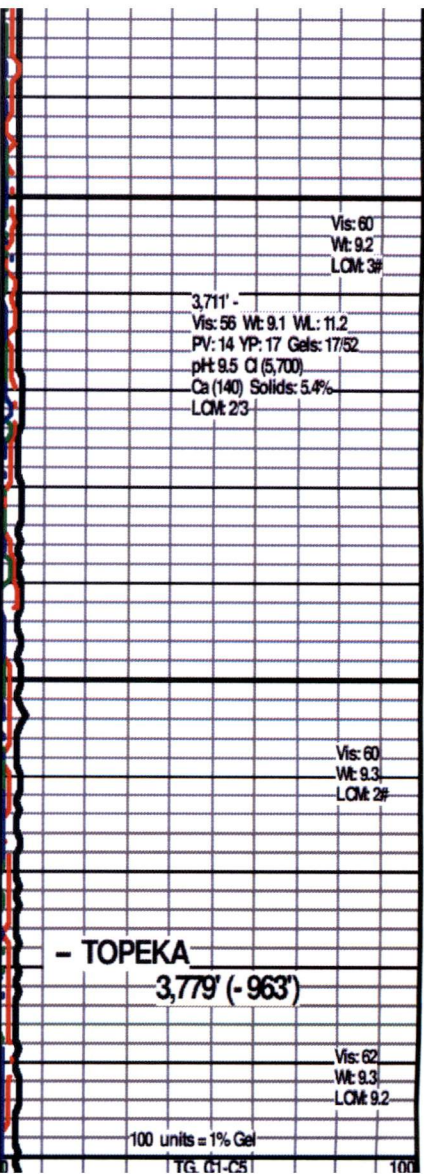


LS - Pale/ Lt / Med Gray. some Grayish Tan. tr Sing/ mostly interbedded Mixed. mostly Micro-/ some XF-xdn. xdn por. Re-xdn at top. argil/shaly or shale interbedded in part. No/ tr fossil frags. rare/ tr chalky in part. Firm at top. partly Friable with depth. mixture of No / tr vis por.

LS - Pale/ Lt / Med Gray. some Grayish Tan. tr Sing/ mostly interbedded Mixed. mostly Micro-/ some XF-xdn. xdn por. Re-xdn at top. argil/shaly or shale interbedded in part. No/ tr fossil frags. rare chalky in part. [Add: Chert - Off White/Grays/ Tans/ tr Orange. Opaque. fossil frags & misc inclusions.] Firm at top. partly Friable with depth. mixture of No / tr vis por.

LS - Tans/ Grays/ Brown. Sing/ some Mot. XF-/ Micro-xdn. xdn & part por. Re-xdn in part. some fossil frags. argil/shaly in part. some Coloids/ subchalky. mostly Firm. mostly Fair vis por.

LS - Lt Tan/ Lt Gray. Mot/Mixed. Micro-xdn. xdn & rare part



Vis: 60
Wt: 9.2
LOM: 3#

3,711' -
Vis: 56 Wt: 9.1 VL: 11.2
PV: 14 YP: 17 Gels: 17/52
pH: 9.5 Cl (5,700)
Ca (140) Solids: 5.4%
LOM: 23

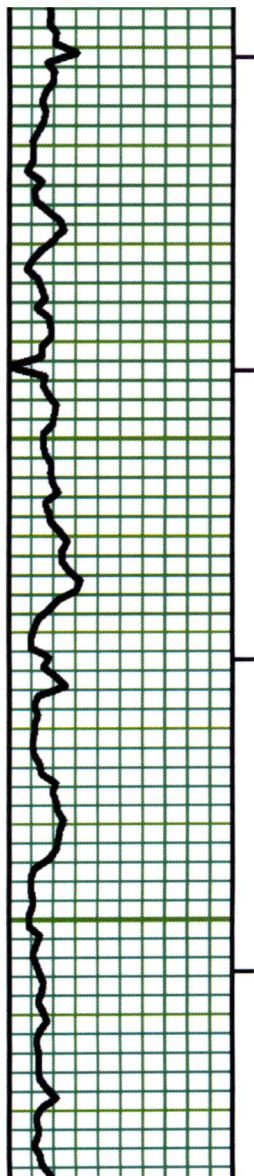
Vis: 60
Wt: 9.3
LOM: 2#

- TOPEKA
3,779' (-963')

Vis: 62
Wt: 9.3
LOM: 9.2

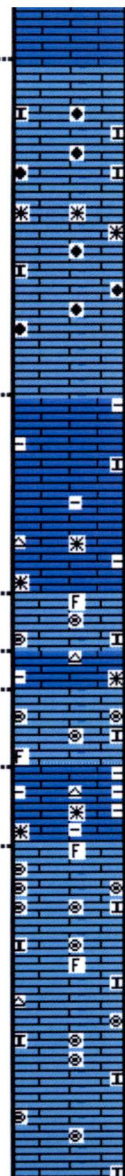
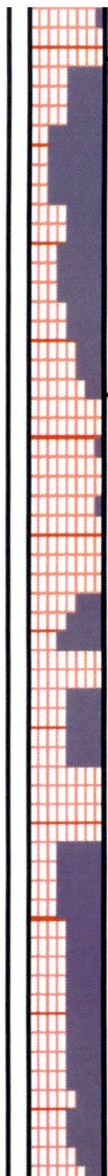
100 units = 1% Gel

TRG: 01-05



3850

3900



LS - Tans/ Off White/ Pale Grayish Tan/ tr Lt Brown. Sing/ Mixed. XF- /Micro-xdn. xdn & part por. Subchalky. some Micro-Oolites (Off White/ tr Whitish Tan). Friable. Fair vis por.

Interbedded SH & LS:

Interbedded SH & LS:

SH - mostly Med/ tr Dark Gray/ Black. Sing. Soft. Massive. rare minute, pyrite, carb.

LS - Grays/ some Tans/ rare Lt Brown. Sing/ Tr Mot/ rare Mixed. XF- /Micro-xdn. xdn por. some argil/shaly in part. partly Firm. No/ tr vis por.

LS - Tans/ Grays/ tr Lt Brown. Sing/ Mot. XF/ Micro-xdn/ rare Crypto-xdn. xdn & part por. some fossil frags. argil/shaly in part (some streaks). few pcs: VF, Coloids in subchalky matrix. [tr Chert - Clear/ Gray/ Brown. Mot. Semi-transparent. misc inclusions. No tripolitic.] mostly Firm. No/ tr vis por.

Vis: 60
Wt: 9.3
LOM: 1#

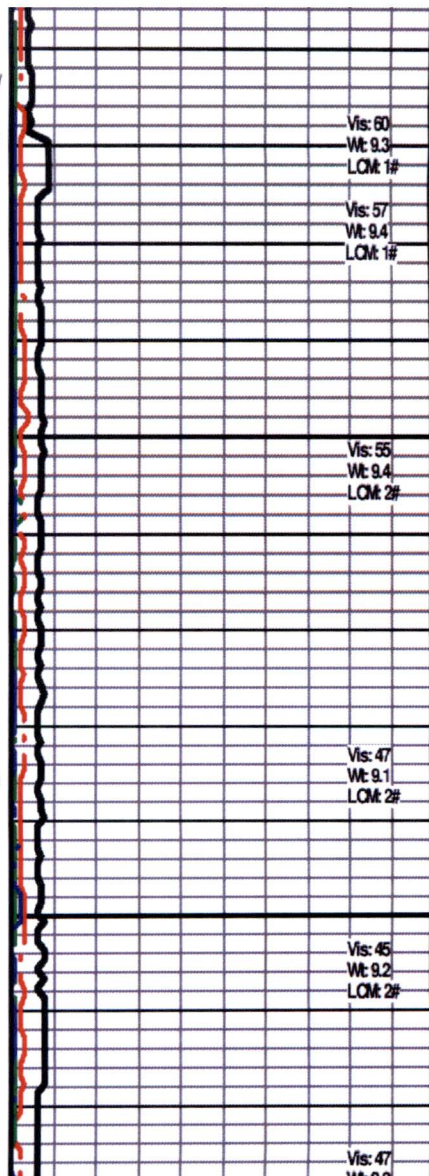
Vis: 57
Wt: 9.4
LOM: 1#

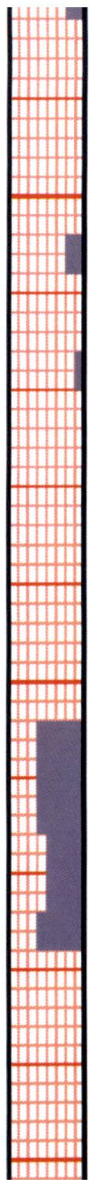
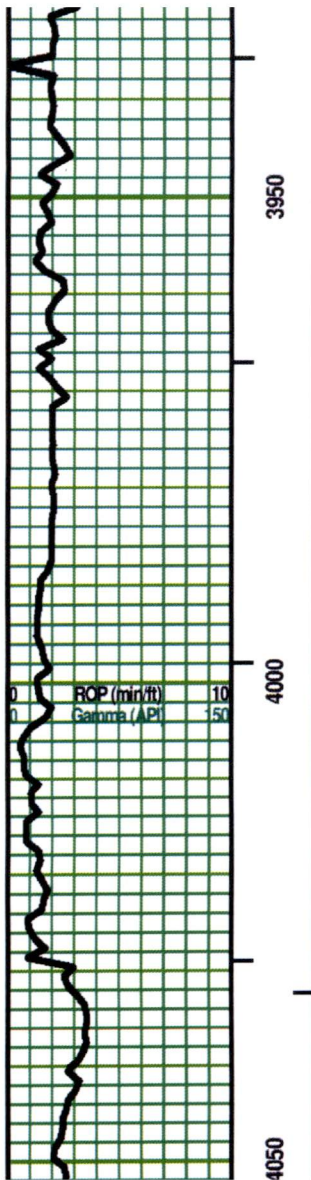
Vis: 55
Wt: 9.4
LOM: 2#

Vis: 47
Wt: 9.1
LOM: 2#

Vis: 45
Wt: 9.2
LOM: 2#

Vis: 47
Wt: 9.2
LOM: 2#



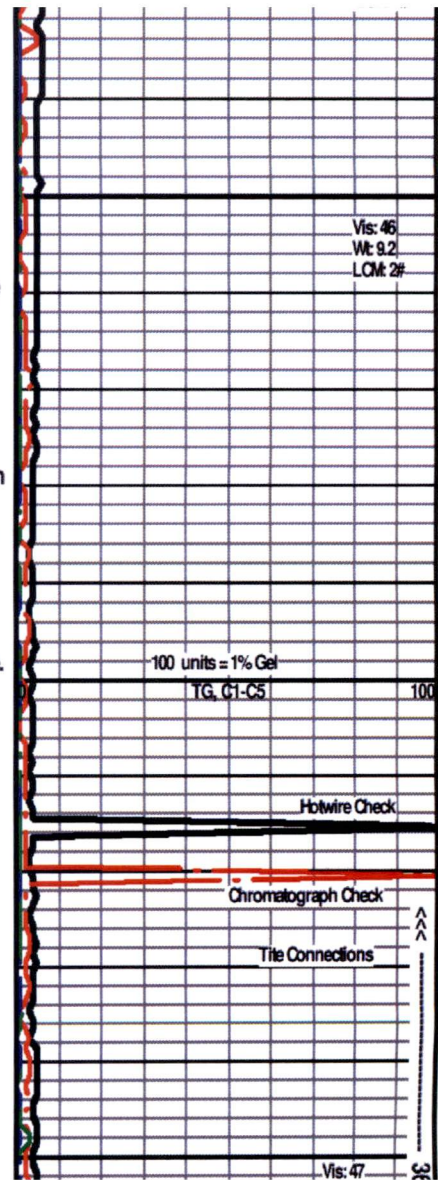


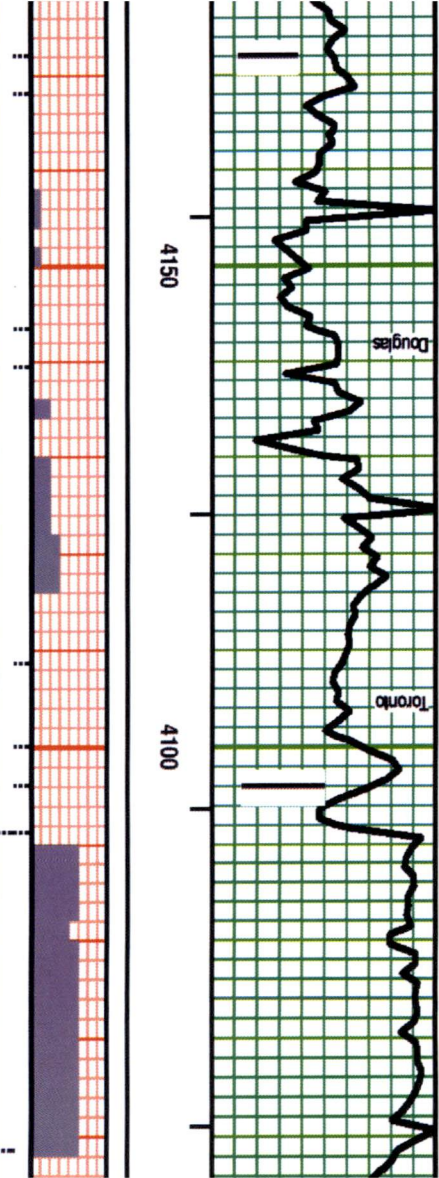
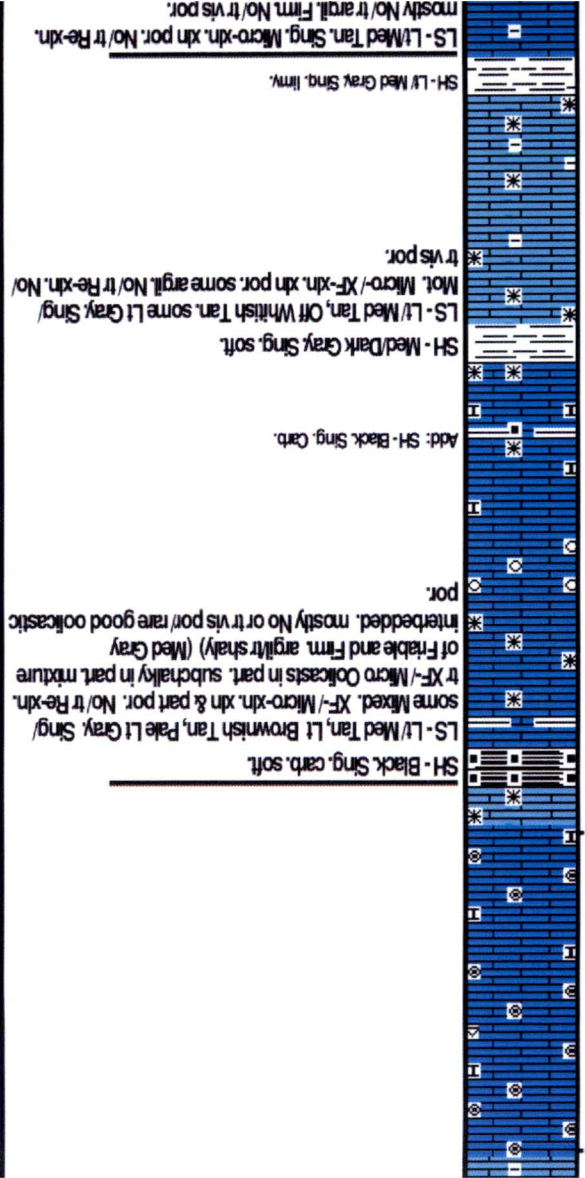
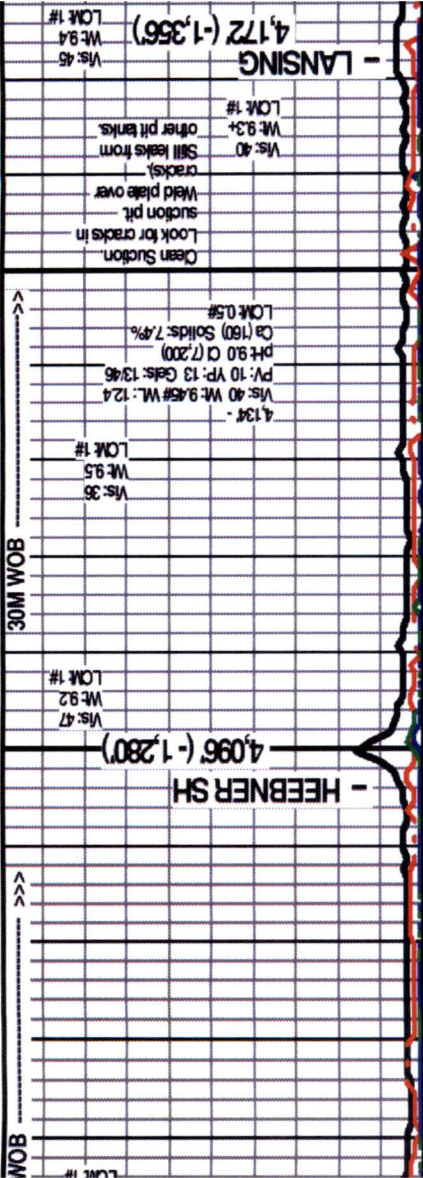
Interbedded LS & SH:

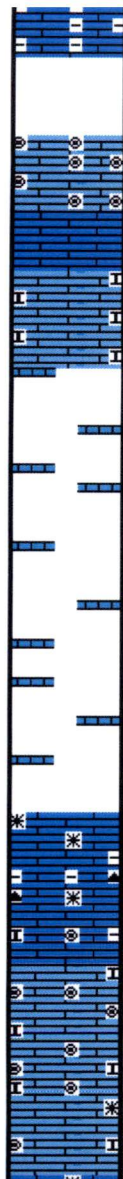
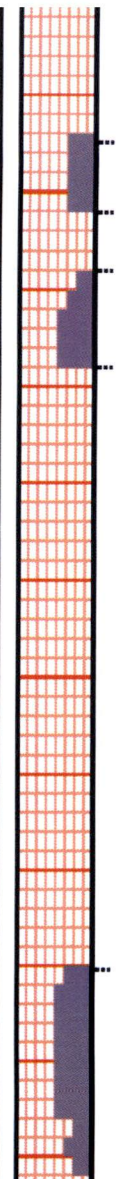
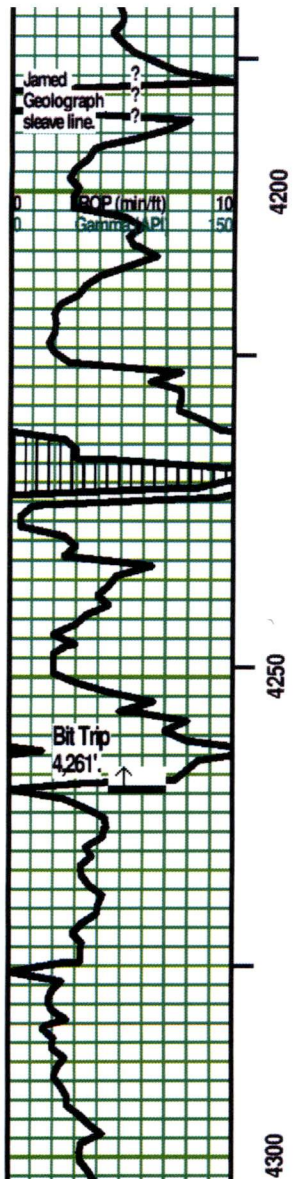
LS - Grays/ some Tans/ rare Lt Brown. Sing/ Tr Mot/ rare Mixed. XF-/ Micro-xdn. xdn por. some argil/shaly in part. partly Firm. No/ tr vis por.

LS - Tans/ Grays/ tr Lt Brown. Sing/ Mot. XF/ Micro-xdn/ rare Crypto-xdn. xdn & part por. some fossil frags. argil/shaly in part (some streaks). few pcs: VF, Ooloids in subchalky matrix. [tr Chert - Clear/ Gray/ Brown. Mot. Semi-transparent. misc inclusions. No tripolitic.] mostly Firm. No/ tr vis por.

SH - mostly Med/ tr Dark Gray/ Black. Sing. Soft. Massive. rare minute, pyrite, carb.







?

few pcs: LS - Micro-Oolites in semi-transparent Matrix. Friable. Good vis por.

LS - Lt/Med Tan. Sing. Micro-xln. xln por. No/ tr Re-xln. Firm. No/ tr vis por.

LS - Off White with Med Tan, irregular blotches. Mixed. Micro-xln. xln por. Chalk. Friable. No/ rare tr vis por.

LS - Lt/Med Tan. Sing. Micro-xln. xln por. No/ tr Re-xln. Firm. No/ tr vis por.

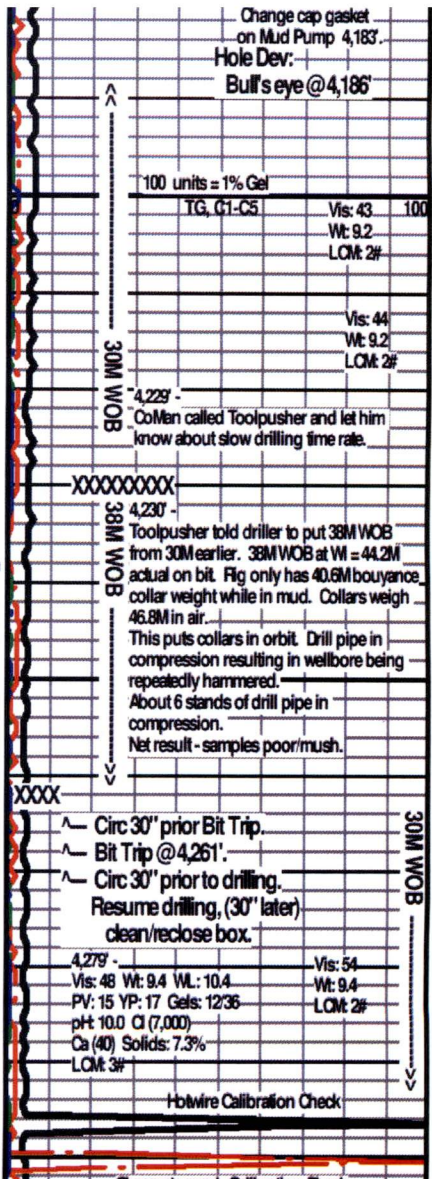
LS - Off White with Med Tan, irregular blotches. Mixed. Micro-xln. xln por. Chalk. Friable. No/ rare tr vis por.

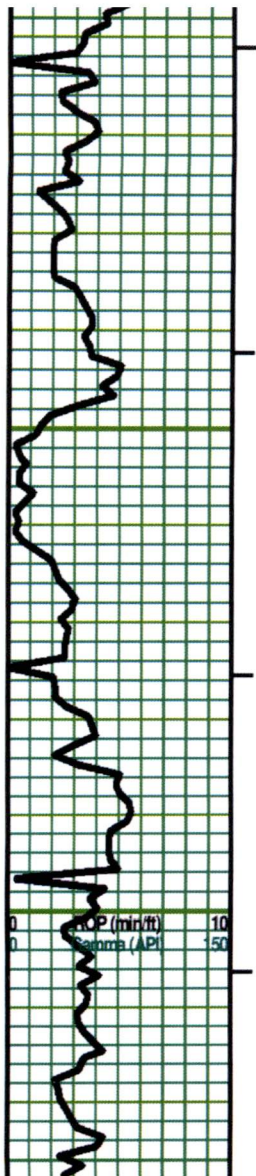
?

xxxxxx BIT TRIP @ 4,261' xxxxxx

LS - Tan/ Lt & Med Gray. Mot/Mixed. XF- Micro-xln. xln por. argil/shaly frags in part rare subchaly. No/ rare fossil frag/ Micro-Oolite (Dark Tan with Gray rimming). (few pcs: Chert - Clear/Grays. Mot semi-transparent, misc inclusions. No trip.) partly Firm. No/ tr vis por.

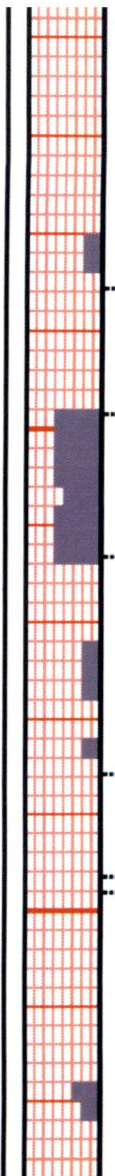
LS - XF-Micro-Oolites in Lt Grayish Tan/Tan Matrix. tr Re-xln. No/ rare gray argil rimmed Oolites. tr subchaly in part. Friable. tr/ Fair vis por.





4350

4400



some Re-xln. No/rare fossil frags. No/tr subchalky in part. partly Firm to Firm.

LS- Tan XF-/ Micro-Oolites or Oolcasts - Mixed. Clear/ Semi-transparent Tan Matrix. Friable. Good vis por.

LS- Tans/ some Grayish Tan. Mot/Mixed. XF-/Micro-xln. xln & part por. [some Chert - Off White/ Tans/ Lt Gray. Mot/Mixed. Opaque. misc inclusions. No trip.] No/ tr Re-xln. No/ tr vis por.

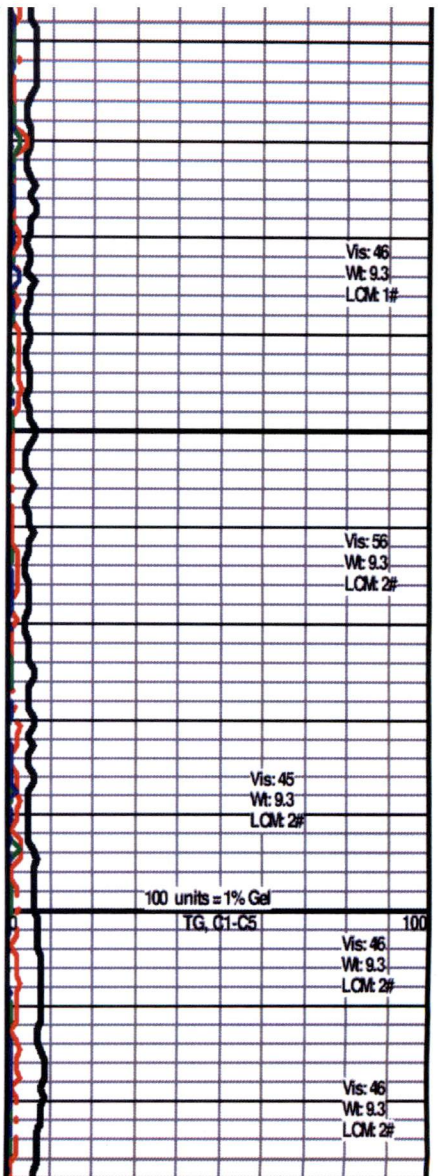
LS- Tan. Sing. Crypto-xln. xln por. Re-xln. Firm No vis por.

SH - Med Gray. Sing. soft.

Interbedded LS's and SH

LS- Tans. Sing/ Mot. XF-/ Micro-xln. xln por. No/ tr Re-xln. mostly Firm. No/ tr vis por.

LS- Tans. Sing. Micro-/ tr XF-xln. xln and sucrose por. No/ some misc dark specks. Friable in part. subchalky in part. No/ tr argil in part. No/ tr fossil frags. most No/ tr vis por.



Vis: 46
Wt: 9.3
LOM: 1#

Vis: 56
Wt: 9.3
LOM: 2#

Vis: 45
Wt: 9.3
LOM: 2#

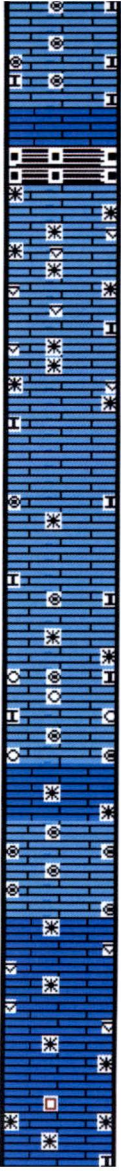
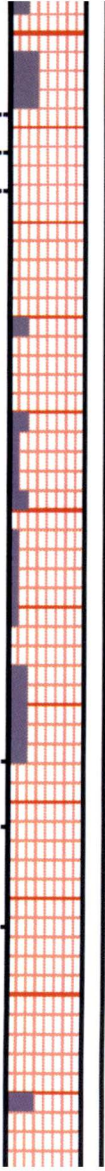
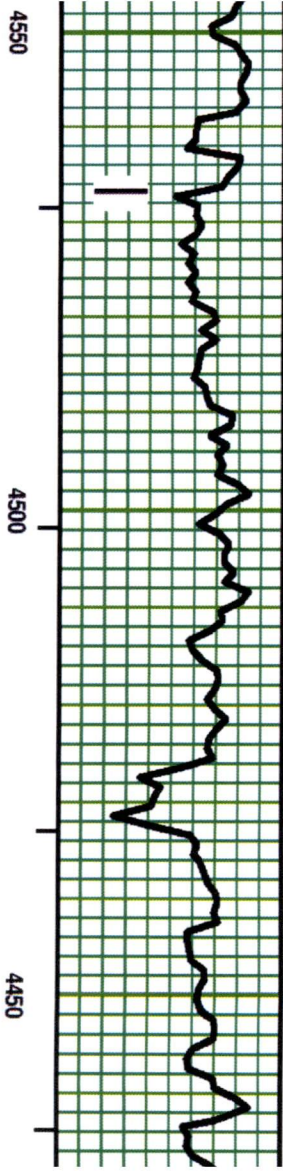
100 units = 1% Gel

TG, G1-C5

Vis: 46
Wt: 9.3
LOM: 2#

Vis: 46
Wt: 9.3
LOM: 2#

100



LS (3) - Gray/Brownish Gray Micro-Coilles. Opaque to semi-transparent Matrix. Misc Inclusions. Fair/Good vis por.

LS - Pale Graysh Tan/ Tan. Sing. Crypto-xln. xln por. Firm. No/ tr vis

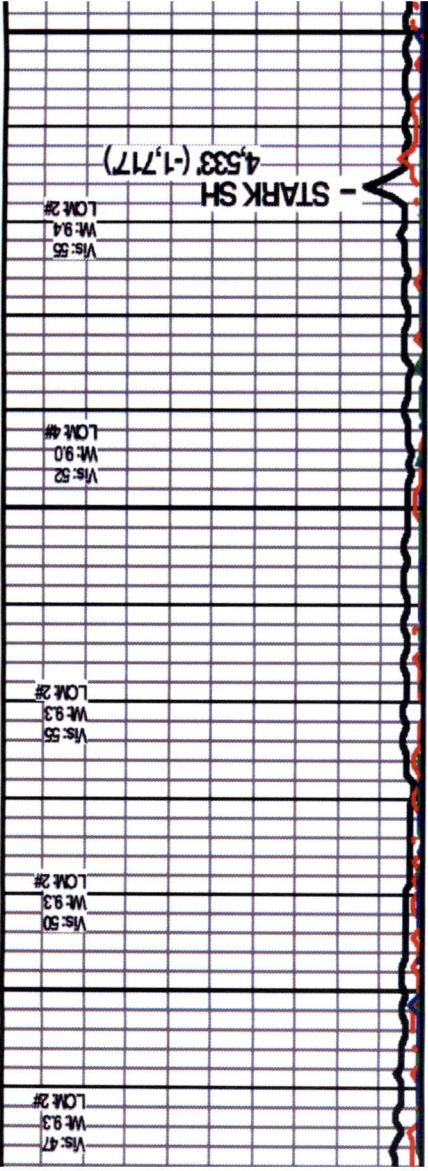
LS - similar to (3) above. Add: Tan Micro-Coils in semi-transparent Matrix. Subchaly in part. Friable. Good vis por.

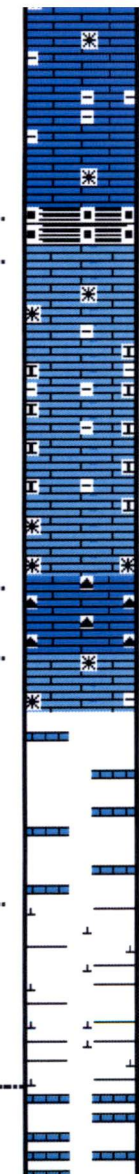
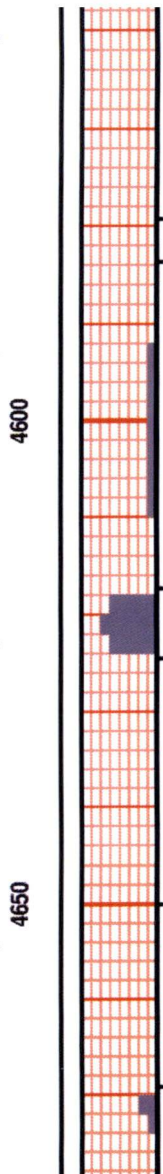
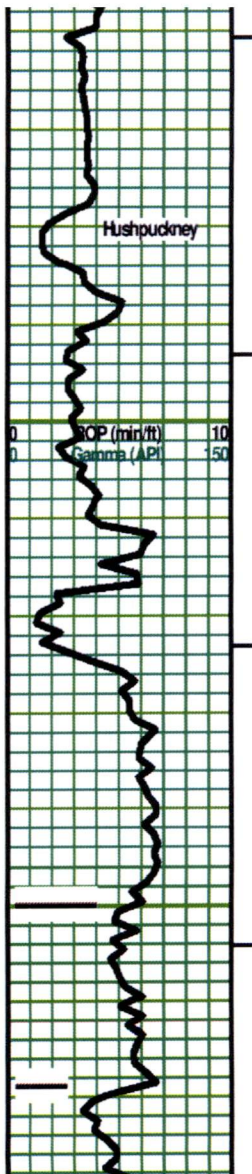
Add: Chert - Silvery Gray/ Gray. Sing. Opaque, mostly No/ tr minute Inclusions. No trip.

SH - Black. Sing. carb. soft

LS - Tan. Sing. Micro-xln. xln por. Firm. No/ tr vis por.

LS - Tan Micro-Coilles. Lt Tan chalky matrix. mostly Friable. tr fair vis por.





XF-Micro-xln. xln por. No/ tr Re-xln. mostly No/ tr argil in part. Firm. No/ tr vis por.

SH - Black. Sing. carb. minute pyrite. soft.
 LS - Lt/ Med Tan. Pale Lt Gray/Lt Gray at top. Micro-xln. xln por. Chalky in part. No/ tr Re-xln. tr argil in part. mostly No/ tr fossil frag. mostly partly Firm. No/ tr vis por.

Add: LS - Drusy Gray Mot with above and similar.

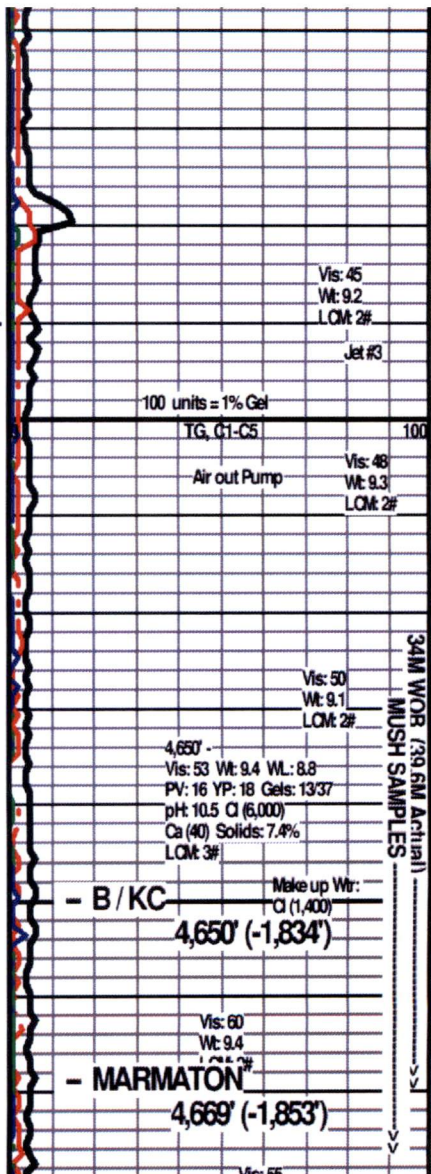
Chert - Grays/ Off White/ Silvery Gray/ tr Tan. Mot/ Mixed. Semi-transparent Matrix. Misc inclusions. No trip.

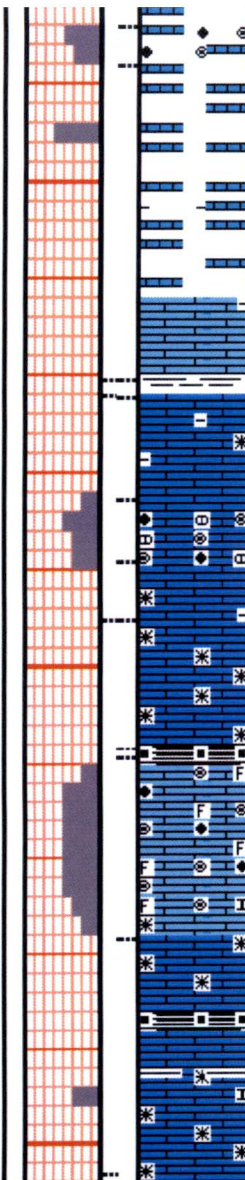
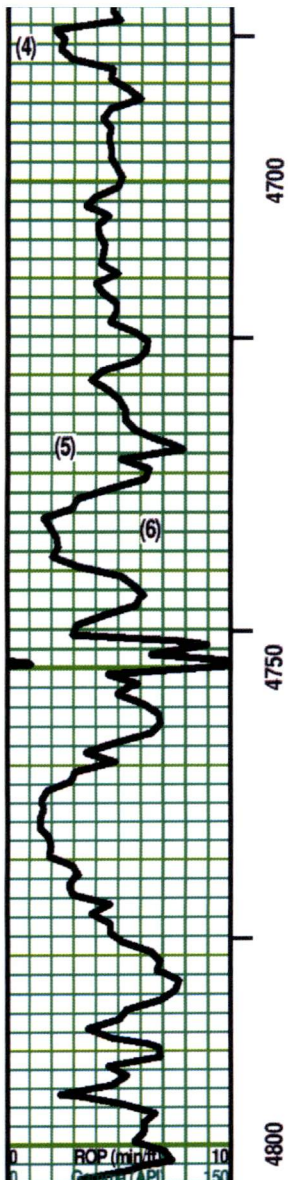
LS - Tans/ Lt Gray & Pale Lt Gray. Sing/ tr Mixed.
 XF-Micro-xln. xln por. No/ tr Re-xln. No/ tr argil in part. Firm. No/ tr vis por.

LS - Med/ tr Dark Gray, some Black. Sing/ Mot. Micro/ Crypto-xln. xln por. argil/shaly. Firm No vis por

SH - Dark Gray. Sing. Highly limy. Dense. Firm.

LS - Tans/ tr to some Grayish Tan. Sing/ Mot/ tr Mixed. tr XF- mostly Micro-xln. xln por. No/ rare dark specks. mostly No/ few pcs subchalky. mostly No/ tr argil in part. No/ tr Re-xln. mostly Firm. mostly No/ tr vis por





few pcs: LS (4) - Lt Tan Oolites + Ooloids. Clear/ semi-transparent Off Whitish Tan Matrix. Friable. Good vis por.

SH - Med Gray. Sing. soft.

LS (5) - Tans/ tr Lt Gray or Grayish Tan. Sing/ some Mixed. Micro-/ tr Crypto-xin. xin por. No/ tr Re-xin. mostly Firm No/ tr vis por.

LS (6) - Lt Med Gray Oolites, Ooloids, nodules and misc frags. Clear/ semi-transparent Matrix. Friable. Good vis por.

LS - similar to (5) above.

SH - Black Sing. carb. soft.

LS - similar to (5) above.

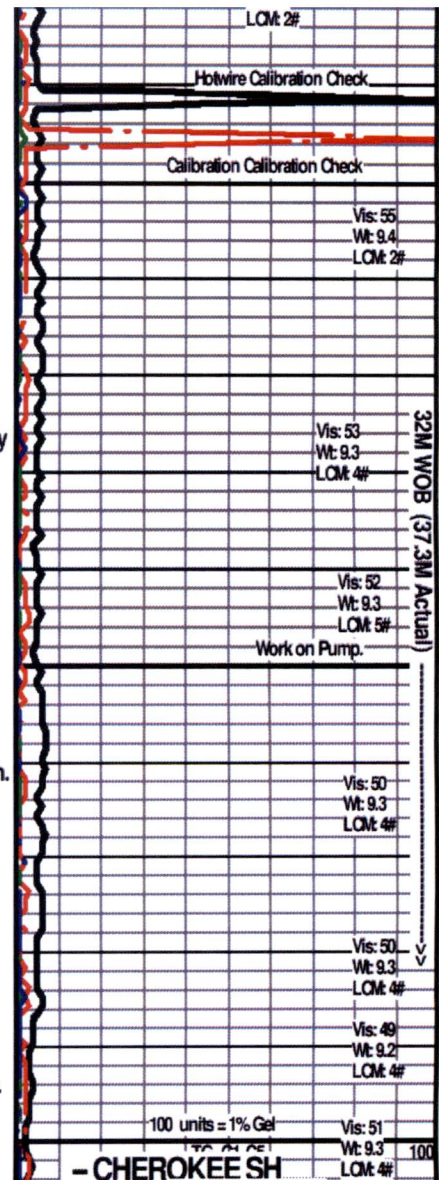
SH - Black Sing. carb. soft. tr platy

LS - Whitish Tan/ Lt Tan Oolites, Ooloids and fossil hash. Clear Matrix. part por. subchalky with at depth. Re-xin with depth. mostly Friable. Fair vis por.

Interbedded LS & SH

LS - Tans/ some Grays. Sing/Mot. mostly XF-/ some Micro-xin. xin por. tr Re-xin. argil/shaly in part. rare subchalky with depth. mostly Firm. No/ tr vis por.

SH - Black Sing. carb. -or- Med/ Dark Gray. Sing. tr platy.



WOB (37.3M Actual)

MUSH SAMPLES

Vis: 50
Wt: 9.2
LOM: #

Jet #1

Vis: 58
Wt: 9.2+
LOM: 2#

Hotwire Calibration Check

Chromatograph Calibration Check

Vis: 60
Wt: 9.4
LOM: 2#

4.998
Vis: 54 Wt: 9.4 VL: 8.8
PV: 16 YP: 19 Gels: 14/36

pH: 11.0 Cl (5,500)
Ca (40) Solids: 7.4%

LOM: #

Vis: 53
Wt: 9.4
LOM: 2#

4.914 (-2.098)

- ATOKA

Redcheck Hotwire Calibration Check

32M WOB (37.3M Actual)

MUSH SAMPLES

measured on 12/13

Sh - Grays, Sing. - or - Black Sing. Carb. Soft.

LS - Tans/ some Grays. Sing/lot. mostly XF-/ some
Micro-xdn. xdn por. No/ some Re-xdn. argill/shaly in part.
rare fossil frag. mostly Firm. No/ tr vis por.

some pcs: Med Tan. Sing. Micro-/tr Crypto-xdn. xdn por.
Firm. No vis por.

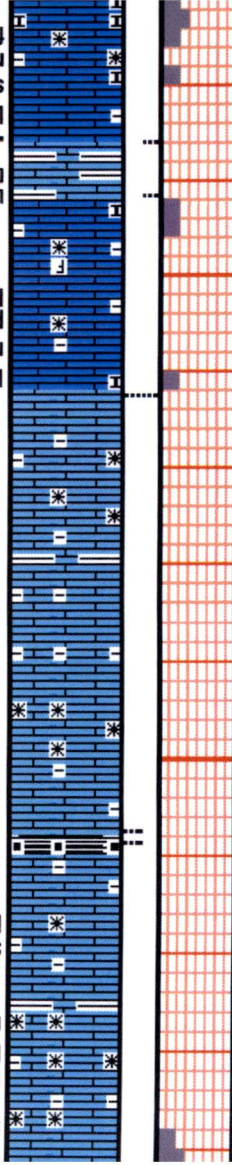
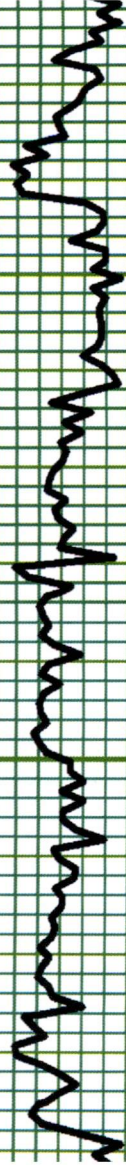
LS - Med Tan/ Grayish Tan/ Lt Gray. Not/Mixed. tr XF-/
mostly Micro-xdn. xdn & rare part por. No/ tr Re-xdn. argill in
part. No/ rare fossil frags. mostly No/ tr subchalky. partly
Firm. No/ tr vis por.

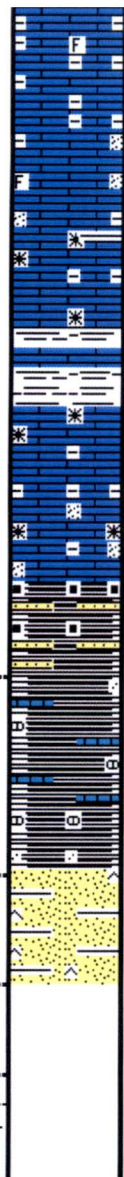
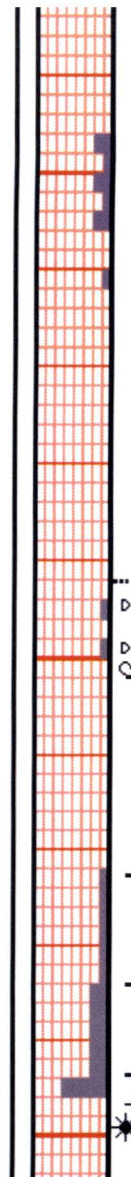
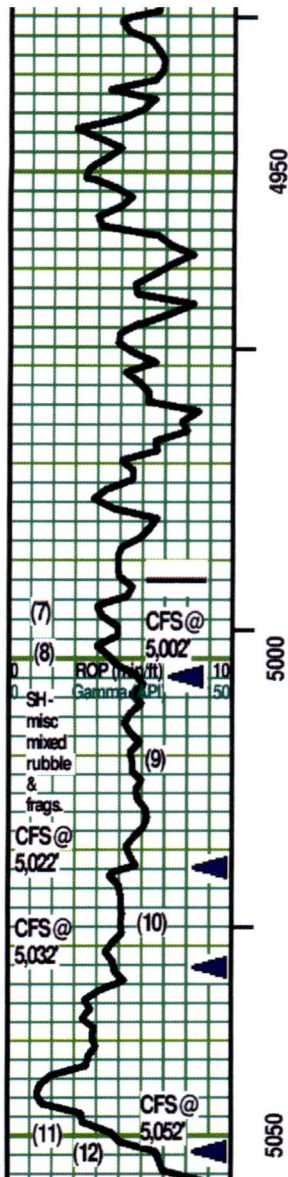
LS - Greenish Dark Gray. Sing. Crypto-xdn. xdn por. Highly shaly.
Dense. No vis por.

LS - Med Tan/ some Grayish Tan/ Lt & Med Gray. Sing/
some Mtd/ some Mixed. tr XF-/ mostly Micro-xdn. xdn &
rare part por. No/ tr Re-xdn. argill in part. No/ rare fossil
frags. mostly No/ tr subchalky. partly Firm. No/ tr vis por.

4850

4900





Add: minute dark specks

Add: LS - Druzy Gray/ Druzy Brown. Sing. Crypto-xln. xln por. argil in part. Firm. No vi por.

Add Interbedded SH - Med/ Dark Gray Sing. tr platy.

LS - Lt/ Med Brown, Lt Gray, Dark Tan. Mot/Mixed. Micro- tr Crypto-xln. xln por. Re-xln. No/ tr subchalky. misc dark specks. mostly Firm. No/ tr vis por

Rubble

SH - Black Sing. carb. misc inclusions.

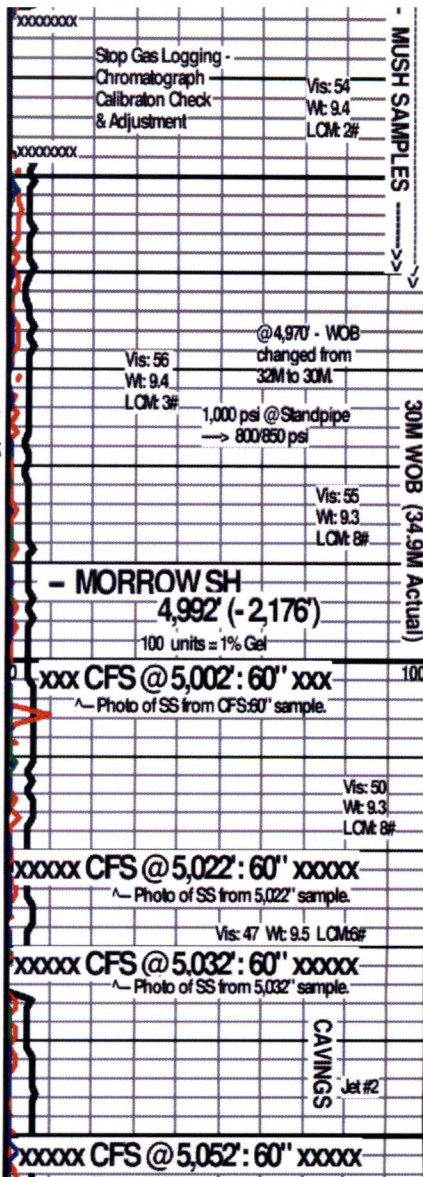
SS (7) - Clear/ Black/ rare Green or Blue Green/ Off White. Mot/ tr Mixed. few pcs: Blue green/Off white/ Clear. Browns in 60' CFS sample. Silt sized qtz. SA/SR. Hl sort. Mod sph. Vitreous/ tr Frosted luster. Point/ some 'floating' grain contact. misc inclusions. some clay infill. partly Firm. tr vis por.

5,022 Sample: SS (8) - Clear, Brown, some Black, tr Blue Green. Mot Silt sized qtz / tr chloride grains. SA/SR. Highly sorted. Point grain contact. misc inclusions. No/ tr vis por. No/? odor. Dull greenish yellow fluorescence. A/C, no free oil or gas. Uniform stain. Asphaltic infill. No cut/ residual. No acid/residual

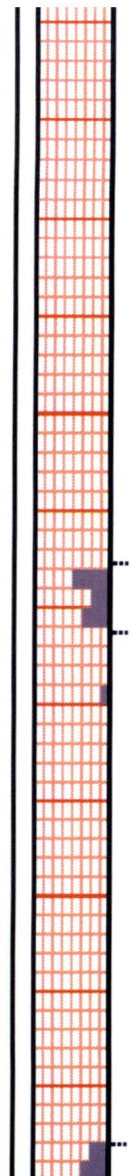
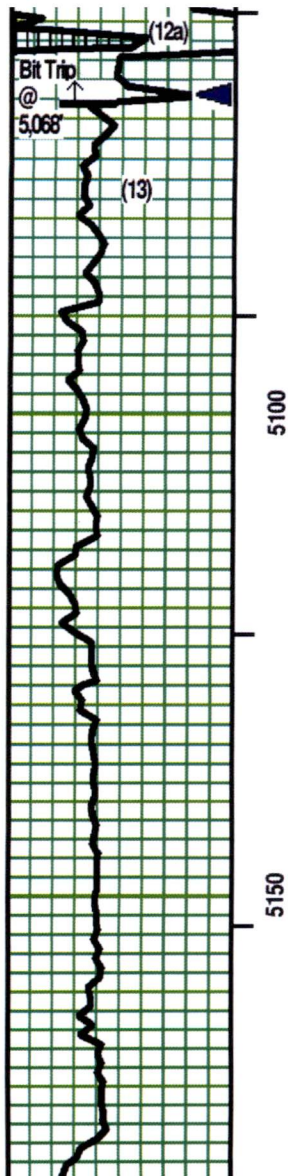
(9) - Mixture of SH, LS, misc inclusions (SS/tr Siltstone): SH - Dark Gray/ Black Sing. misc inclusions. LS - Med Tan. Sing. Micro-xln. xln & part por. Silt sized, SR, qtz grains. misc inclusions. SS streaks - similar to above. Misc carbonate nodules.

SS (10) - Clear/ Blue Green/ tr Off White. Mixed. Silt sized qtz and tr chlorite grains. SA/SR. Hl sort. Mod sph. Vitreous luster. some Point/ lots highly sutured grain contact. tr chlorite grains. some interbedded Med/Dark Gray lams. Firm. No/ tr vis por.

LS (11) - Off Whitish Tan/ Lt Tan/ Clear. Mot. Micro-xln. xln & part por.



MUSH SAMPLES



LS (12) - Lt/Med VF-/ XF SR nodules. Mixed. Point/ some sutured nodule contact. minute misc inclusions. partly Firm. tr vis por. No/? odor. spotted dull yellow fluorescence. A/C, rare minute Dark Brown oil bleb floating to the water surface. Spotted, very minute Dark Brown/Black OIL spheres clinging to rx chip. Spotted Med/Dark Brown stain. Weak positive cut/ residual Weak positive acid/ residual.

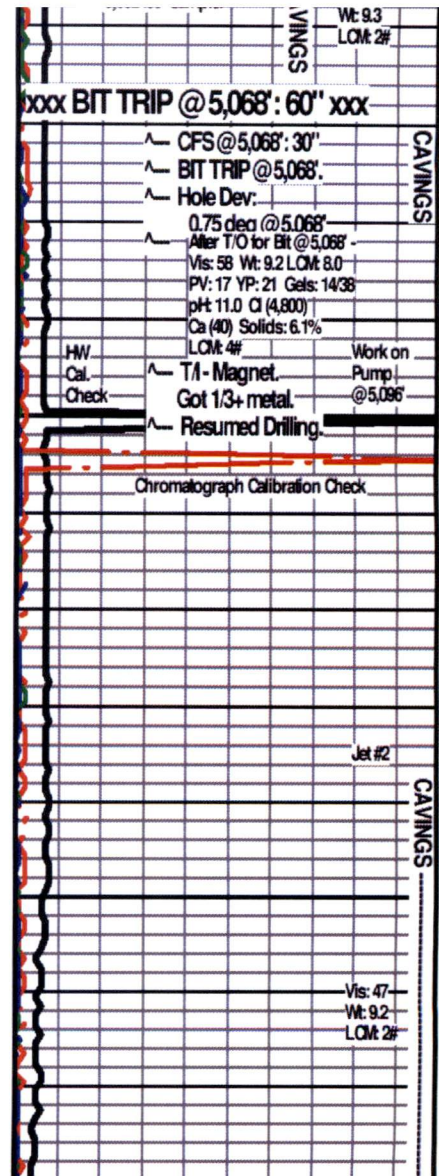
LS (12a) - Lt/Med VF-/ XF SR nodules. Mixed. Point/ some sutured nodule contact. minute misc inclusions (Silt sized qtz grains, rare dark specks), partly Firm. tr vis por.

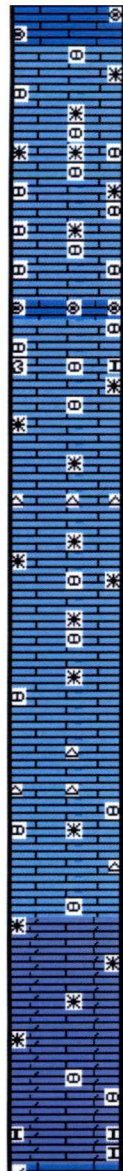
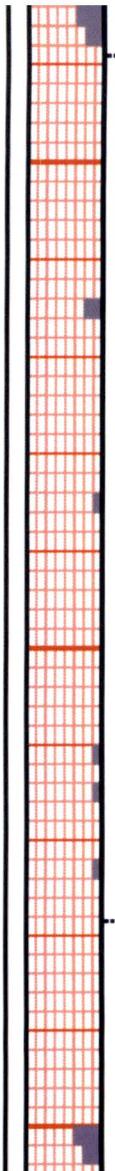
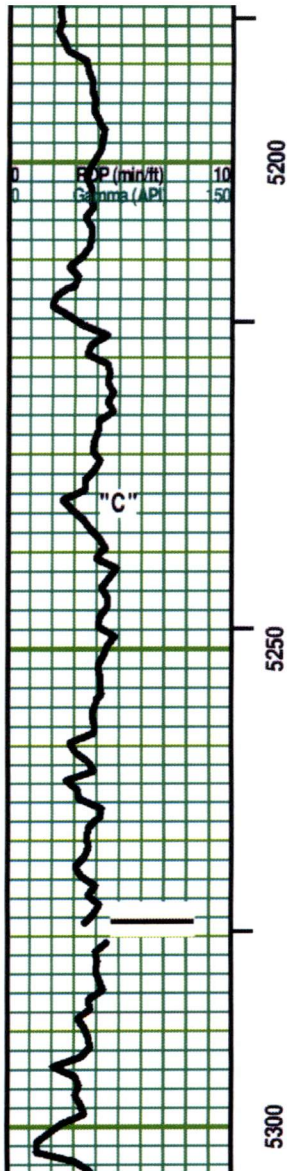
LS (13) - Lt/ Med Tan. Lt Tan/ some Whitish Tan XF nodules and Oolites. Micro-xln. xln & part por. mostly No/ v rare glauc flecks. [Add Chert - Drusy Gray/Off Whitish Gray/ Clear. Semi-transparent matrix. Off Whitish Gray Nodules inclusions. No Trip.] No/ tr subchalky in part. No/ tr Re-xln. Firm. No/ tr vis por.

LS - similar to above. Chert - Drusy Gray Opaque to Semi-transparent. Misc Whitish Gray/ Lt Gray inclusions. No trip.

LS - Lt/ Med Tan. Lt Tan/ some Whitish Tan XF nodules and Oolites. Micro-xln. xln & part por. mostly No/ v rare glauc flecks. [Add Chert - Drusy Gray/Off Whitish Gray/ Clear. Semi-transparent matrix. Off Whitish Gray Nodules inclusions. No Trip.] No/ tr subchalky in part. No/ tr Re-xln. Firm. No/ tr vis por.

LS - Lt/ Med Tan, Whitish Tan XF-/ Micro-xln. xln & part por. Lt Tan, semi-transparent Matrix. No/ tr subchalky





LS - Lt/ Med Tan. Lt Tan/ some Whitish Tan XF/ Micro nodules and Oolites (mixed). Micro-xdn. xdn & part por. [No/ rare Chert - Drusy Gray/Off Whitish Gray/ Clear. Semi-transparent matrix. Off Whitish Gray Nodules inclusions. No Trip.] No/ tr subchalky in part. No/ tr Re-xdn. Firm. No/ tr vis por.

Add: Off White, XF-Micro Oolites. Clear Matrix. Friable. No vis por.

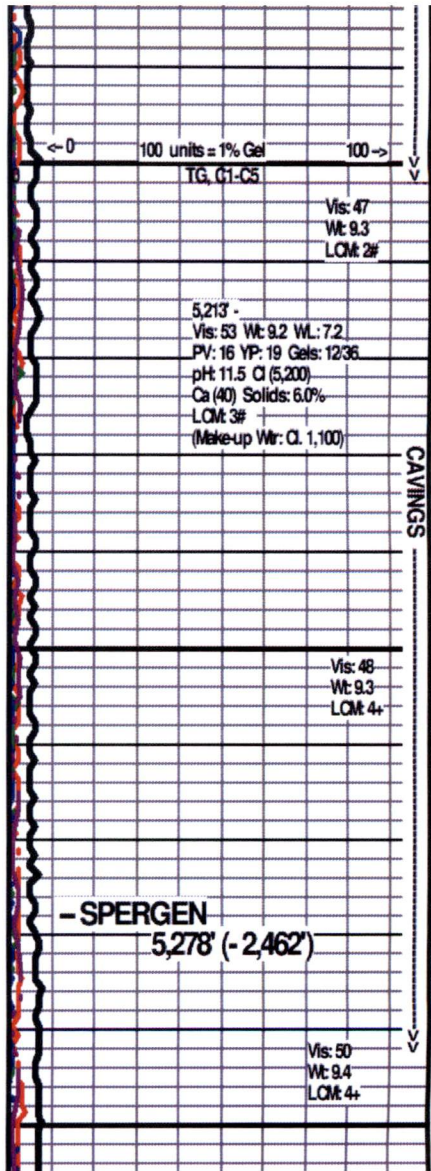
LS - Lt/ Med Tan. Lt Tan/ some Whitish Tan XF/ Micro nodules and Oolites (mixed). some misc fossil 'hash'. Micro-xdn. xdn & part por. [No/ rare Chert - Drusy Gray/Off Whitish Gray/ White/ tr Clear. Semi-transparent matrix. Off Whitish Gray Nodules inclusions. No Trip.] No/ tr subchalky in part. No/ tr Re-xdn. Firm. No/ tr vis por.

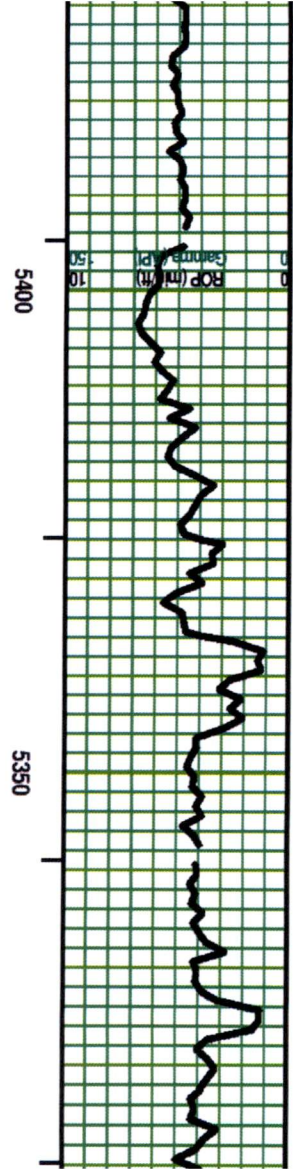
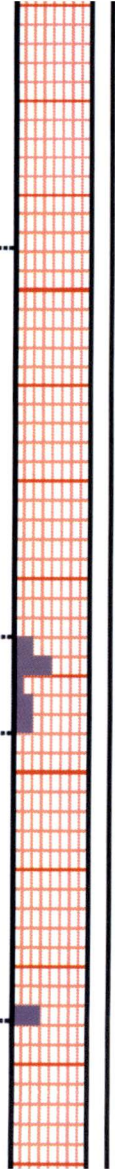
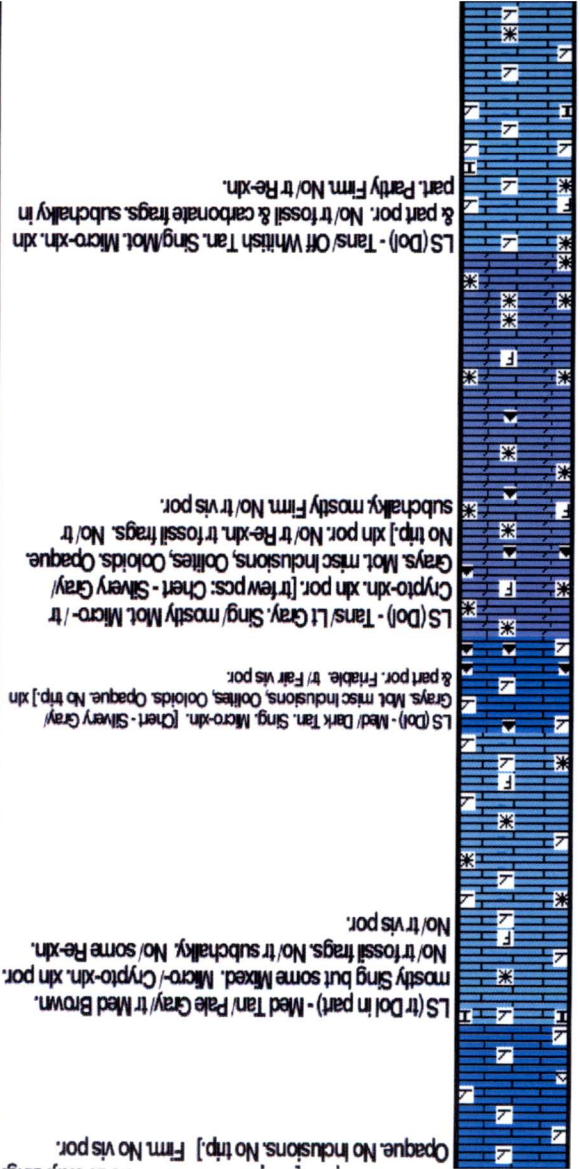
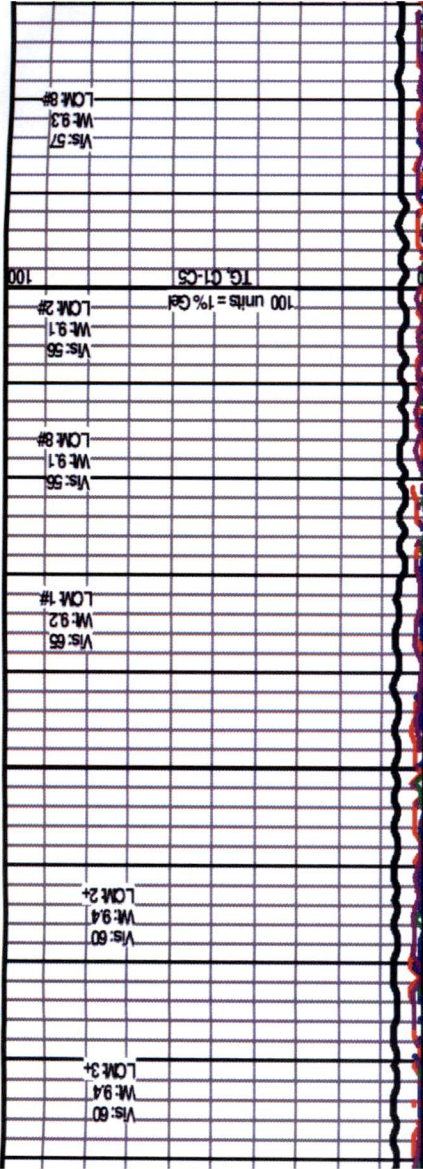
LS - Lt/ Med Tan. Lt Tan/ some Whitish Tan XF/ Micro nodules and Oolites (mixed). No. rare misc fossil 'hash'. Micro-xdn. xdn & part por. [No/ rare Chert - /Off Whitish Gray/ White/ tr Clear. Semi-transparent matrix. Off Whitish Gray Nodules inclusions. No Trip.] No/ tr subchalky in part. No/ tr Re-xdn. Firm. No/ tr vis por.

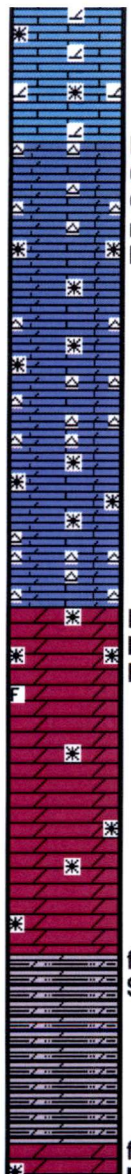
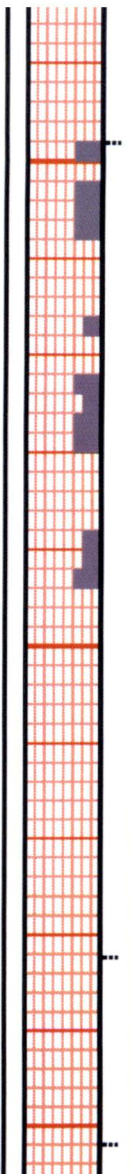
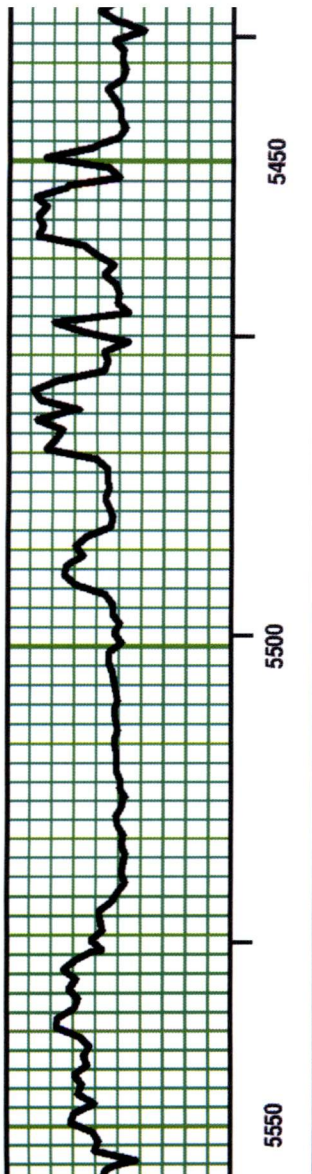
Add LS - Lt Brownish Tan. similar to above.

Add: LS (tr Dol) - Grayish Tan/ Med Tan. Sing. Crypto-xdn. xdn por. Firm. No vis por.

LS (tr Dol) - Grayish Tan/ Med Tan. Sing. mixture of: Crypto- Micro-xdn. xdn por. No/ tr Re-xdn. subchalky in part. Firm. No/ tr vis por.





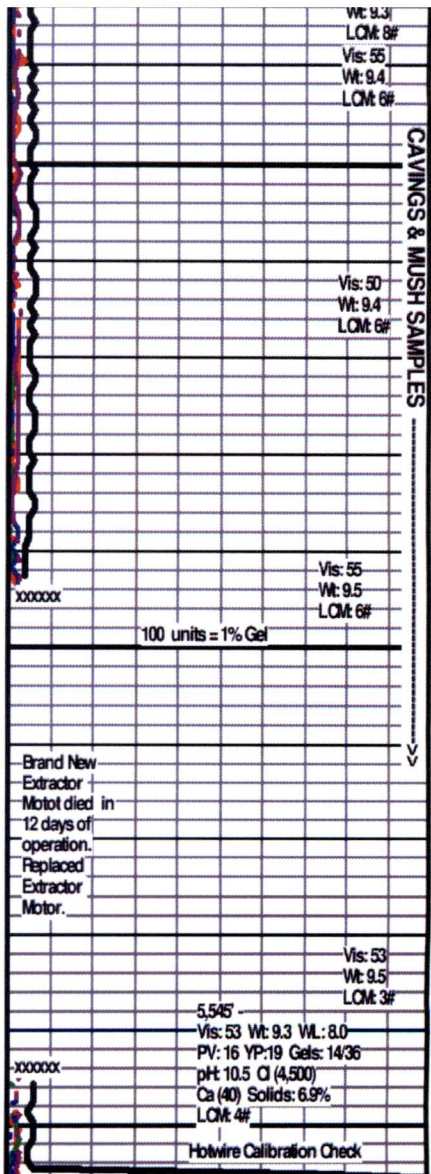


LS (Do) - Tans/Lt Gray. Sing/ mostly Mot. Micro- / tr
 Crypto-xdn. xln por. [Chert - Silvery Gray/ Off White/ Pale
 Gray. Sing/ some Mot. misc Inclusions, Opaque. No/ tr
 minute dark specks. No trip.] xln por. No/ tr Re-xln.
 Interbedded Friable or Firm. No/ tr vis por.

DOL - Lt/ Med Tan, Pale Lt Gray. Sing/ tr Mixed.
 Micro-/Crypto-xdn. Re-xln por. rare fossil frag 'ghost'.
 Firm. No vis por.

few pcs: DOL - Pale Lt Gray. Sing. Micro-Re-xln. xln por.
 Silty to Shaly, partly Friable. No/ tr vis por.

few pcs: DOL - Lt/ Med Tan, Pale Lt Gray. Sing/ tr Mixed.



Wt: 9.3
 LOM: 8#
 Vis: 55
 Wt: 9.4
 LOM: 6#

Vis: 50
 Wt: 9.4
 LOM: 6#

Vis: 55
 Wt: 9.5
 LOM: 6#

100 units = 1% Gel

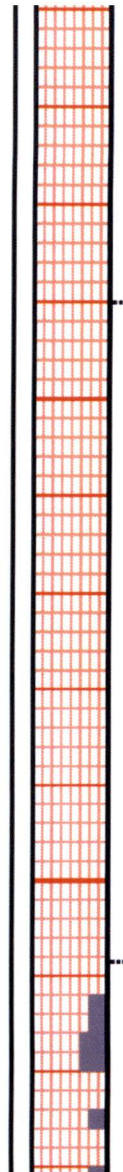
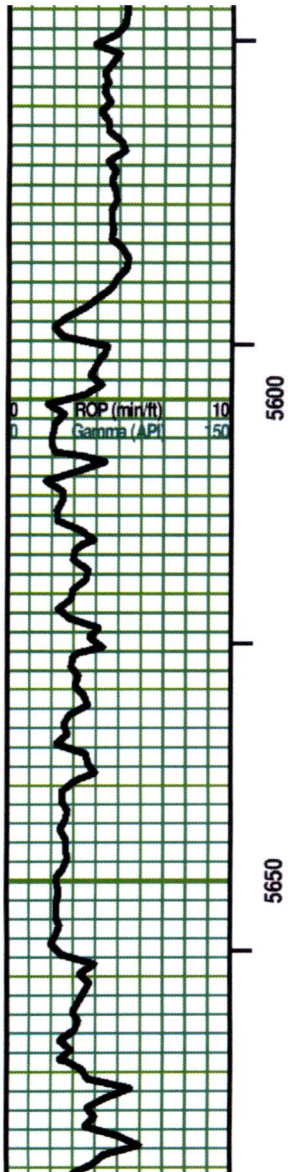
Brand New
 Extractor
 Motor died in
 12 days of
 operation.
 Replaced
 Extractor
 Motor.

Vis: 53
 Wt: 9.5
 LOM: 3#

5,545'
 Vis: 53 Wt: 9.3 VL: 8.0
 PV: 16 YP: 19 Gels: 14/36
 pH: 10.5 Cl (4,500)
 Ca (40) Solids: 6.9%
 LOM: 4#

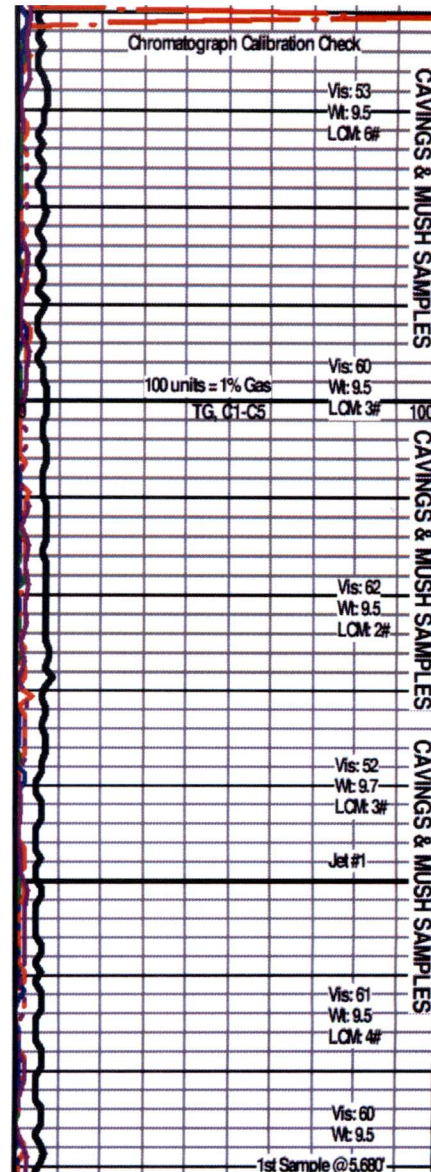
Hotwire Calibration Check

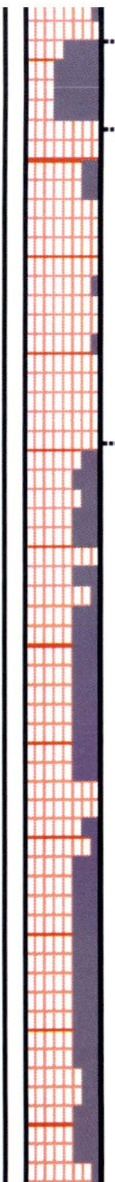
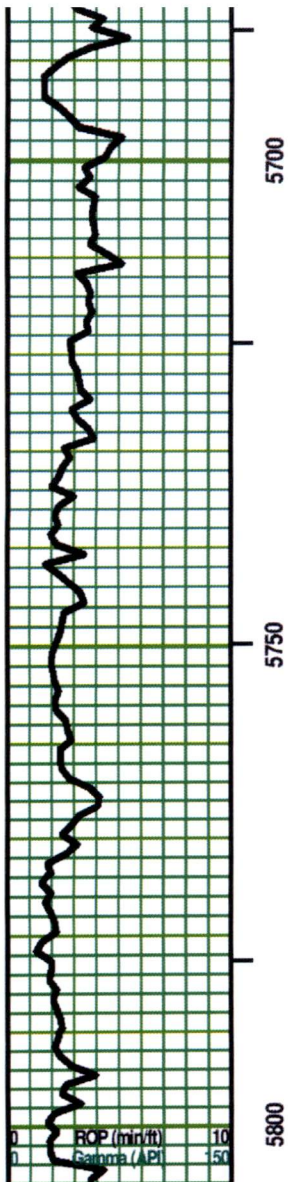
CAVINGS & MUSH SAMPLES



DOL - Pale Lt Gray/ Lt Gray. Sing. Micro-Re-xln. xln por. [lots Chert - White/ Off White/ some Pale Lt Gray. Sing/ Mot. semi-transparent Matrix. Off White spicules other misc inclusions. No trip.] Subchalky in part. mostly Friable. tr/ some fair vis por.

DOL - Pale Lt Gray/ Lt Gray/ Off Whitish Tan. Sing. Micro-Re-xln. xln and sucrosic por. [some/lots Chert - White/ Off White/ some Pale Lt Gray. Sing/ Mot. semi-transparent Matrix. mixture of: Off White spicules -or- other misc inclusions -or- XF-/Micro- Oolites or Coloids. Minute glauc flecks towards top. No trip.] Subchalky in part. mostly Friable. tr/ some fair vis por.





Chert - White/ Off White/ tr Pale Lt Gray. Sing/ tr mixed. Opaque to semi-transparent. Misc Inclusion: spicules, fossil frags, Micro-Oolites, No/ tr SA, XF, glauc grains. No tripolitic. Friable. No vis por.

DOL - Pale Lt Gray/ Lt Gray/ Off Whitish Tan. Sing. Micro-Re-xln. xln and sucrosic por. [lots Chert - White/ Off White/ some Pale Lt Gray. Sing/ Mot. semi-transparent Matrix. mixture of: Off White spicules -or- other misc inclusions -or- XF/Micro-Oolites or Ooloids. Minute glauc flecks towards top. No trip.] Subchalky in part. minute glauc flecks in part. mostly Friable. tr/ some fair vis por. LS at top.

lots of Chert - similar to above.
Intermixed / Interbedded with:
DOL - similar to above. Add: Lt Tan. Sing.

Add: Chert - Pale & Lt Gray. Mot. Brecc frags. semi-transparent matrix. No trip. No/ tr fossil frags. rare minute dark specks.

Add: DOL - Tan. Sing. Micro-xln. xln por riming Chert (similar to above).

Vis: 61
Wt: 9.6
LCM: 4#

Vis: 61
Wt: 9.6
LCM: 4#

Vis: 60
Wt: 9.5
LCM: 4#

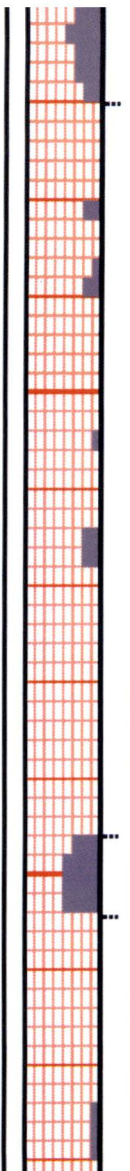
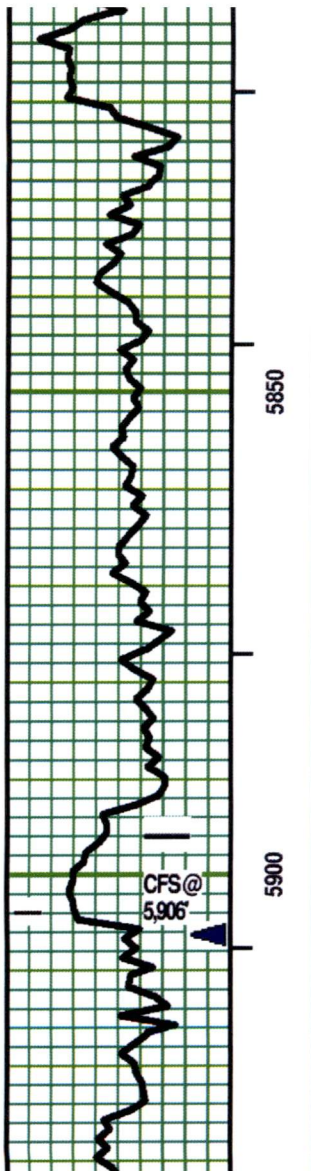
Vis: 62
Wt: 9.4
LCM: 6#

Vis: 56
Wt: 9.5
LCM: 6#

100 units = 1% Gas
TG, G1-C5

MUSH SAMPLES

100
↑



LS (DoI) - Lt/ Med Tan. Sing. Micro-xin. xin & sucrosic porosity. Re-xin. Firm. No/ tr vis por.

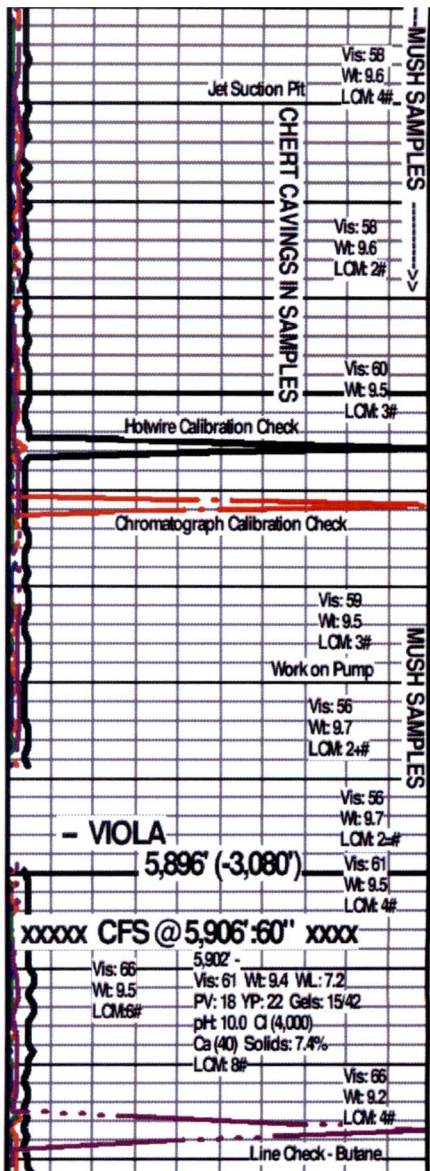
LS - Med Tan. Sing. Micro-xin. xin & some sucrosic por. Re-xin. FirmDense. No/ tr vis por.

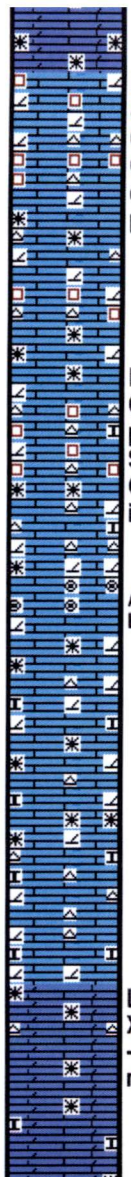
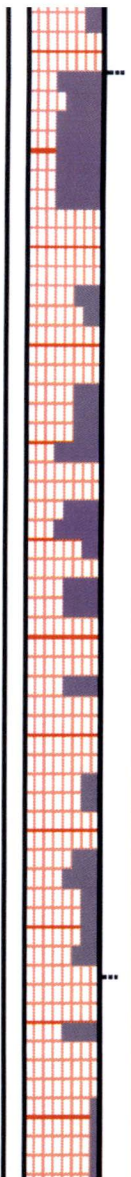
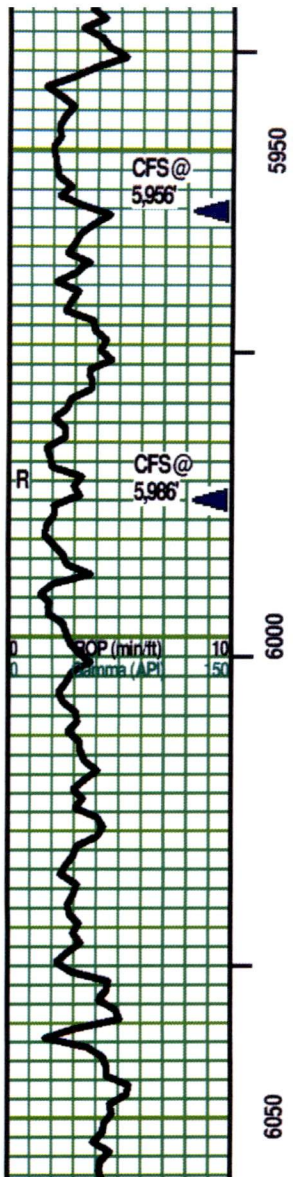
Add: LS (tr DoI) - Lt Brown. Sing. Micro-/ Crypto-xin. xin & tr sucrosic por. Re-xin. FirmDense. No/ tr vis por.

SH - Med Gray. Sing. tr calc. partly blocky.

NHT -
 LS - Lt Tan. Sing. Micro-xin. xin & tr sucrosic por. [some CHERT - Lt Silvery Gray. Sing. Opaque. misc dark inclusions. No trip.] Friable. tr vis por.

LS (tr DoI) - Lt & mostly Med Tan/ tr Pale Lt Gray. Sing. mostly Micro- tr XF- & tr Crypto-xin. xin por. Re-xin. No/ rare minute fossil frag. No/ some minute SA, vitreous qtz grains. Firm. No/ tr vis por.



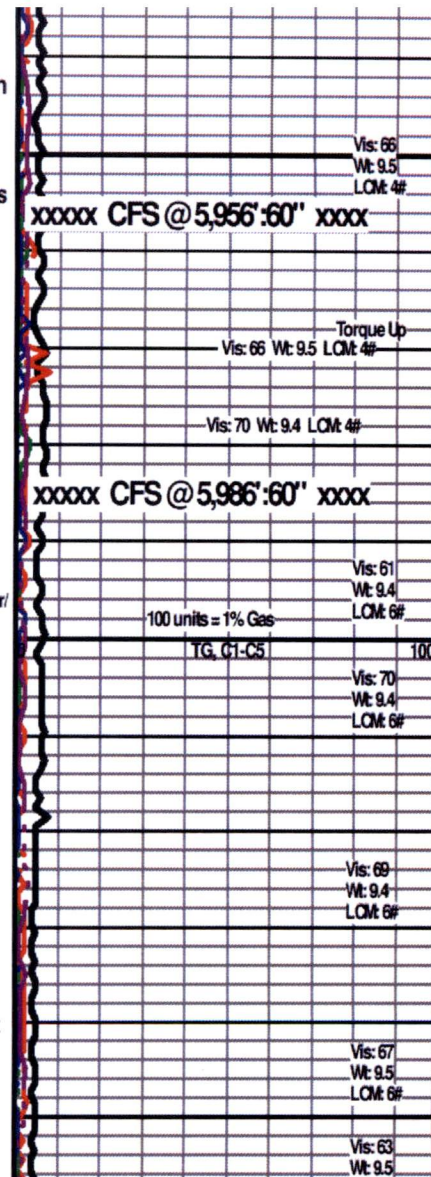


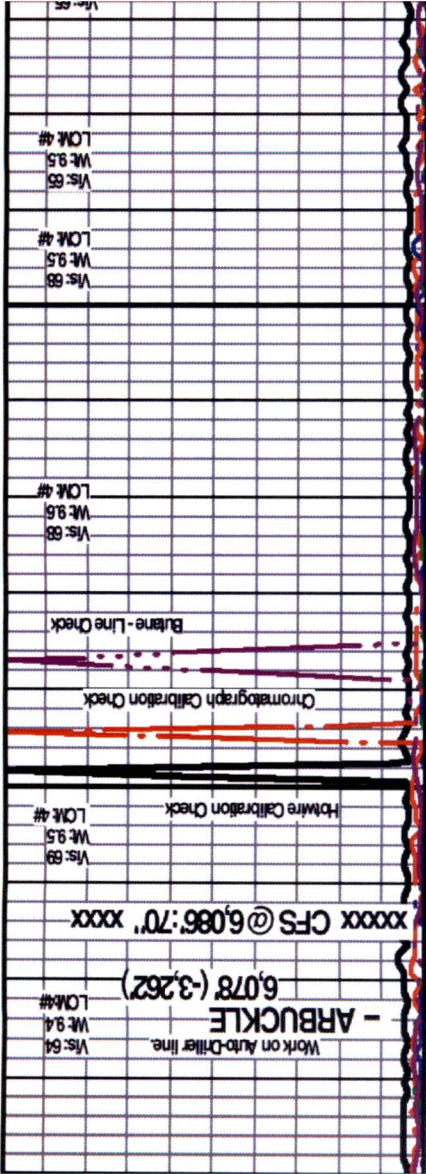
LS (tr Dol in part) - Lt & Med Tan. Sing. XF-/Micro-xln. xln & sucrosic por. No/tr Re-xln. partly Friable. [some CHERT - White, some Pale Bluish Silvery Gray, Lt Gray. Sing/ Mot/ Mixed. Opaque. No/tr minute dark specks. No trip.] mixture of tr/Fair visible and No vis por.

LS (Dol in part) - Lt & Med Tan. Sing. XF-/Micro-xln, tr Crypto-xln in part. xln & sucrosic por. No/tr Re-xln. partly Friable. [some CHERT - White, some Pale Bluish Silvery Gray, Lt Gray. Sing/ Mot/ Mixed. Opaque. No/tr minute dark specks. No trip.] subchalky in part. mixture of tr/Fair visible and No vis por.

Add: LS - Off White/ Lt Tan XF-/ tr Micro-Oolites, rare Colicast. Clear/ Lt Brownish Clear Matrix. Friable. Fair/ Good vis por.

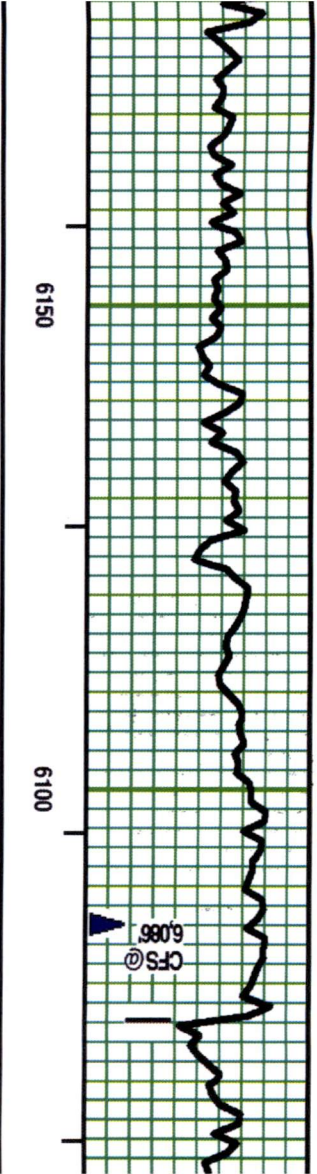
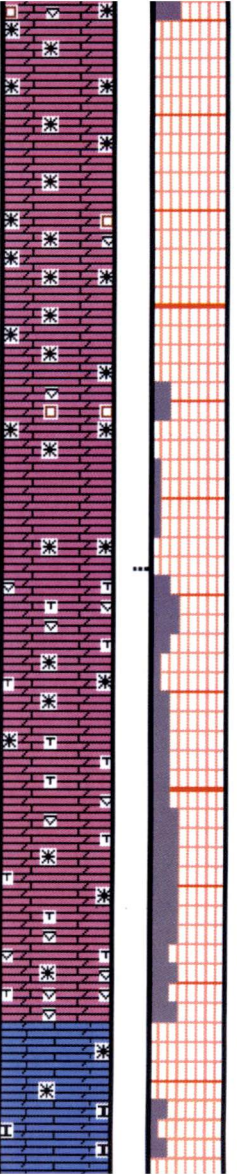
LS (Hi Dol) - Tans/ Lt Gray. Sing/ some Mot. tr VF-/some XF-/ mostly Micro-xln. xln & sucrosic por. few pcs: Chert - similar to above. Re-xln in part. No/tr subchalky. mostly Firm. No/tr vis por.

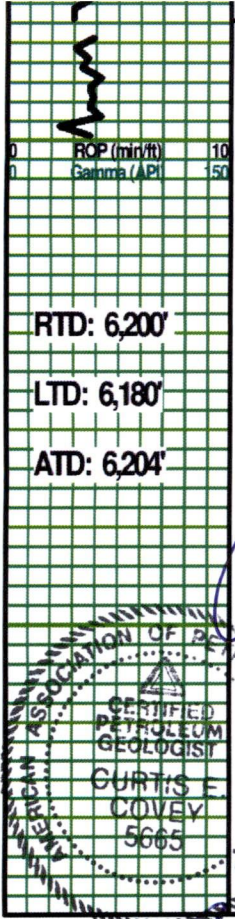




DOL (Hi Calc) - some Pale Grayish Tan/ mostly Med Tan.
 Sing/ some Mot/ tr/ Mixed. Micro-/ tr to some
 Crypto-Re-xin. No/ tr subeuhedral xtals. [no / tr Chert -
 mostly Off White/ White/ tr v Pale Lt Gray Sing. Opaque.
 some misc inclusions. No trip.] partly Firm. No/ tr/ some
 Fair vs por (intermixed).

DOL (Hi Calc) - mostly Med Tan/ v Pale Grayish Tan.
 Sing/ some Mot/ tr/ Mixed. Micro-/ tr to some
 Crypto-Re-xin. No/ tr subeuhedral xtals. xin & sucrosic
 por. [mostly no/ rare Chert - mostly Off White/ White/ tr v
 Pale Lt Gray Sing. Opaque. some misc inclusions. No
 trip.] partly Firm. No/ tr/ some Fair vs por (intermixed).

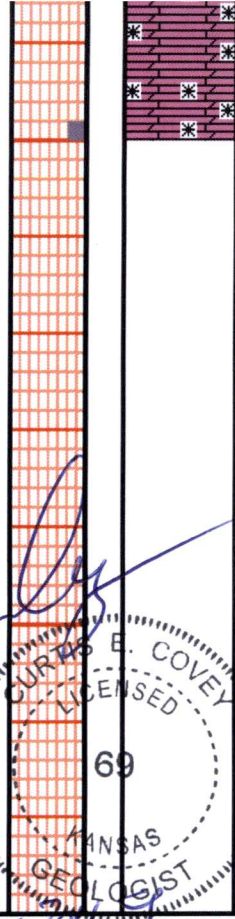
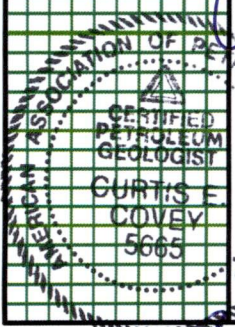




6200

RTD: 6,200'
 LTD: 6,180'
 ATD: 6,204'

6250



... (mostly) ...
 Pale Lt Gray, Sing. Opaque. some misc inclusions. No trip.] partly Firm. No/ tr/ some Fair vis por (intermixed).

FARIS #2 - 35
 2,245' FSL & 1,525' FEL 35-T26S-R31W
 Finney County, Kansas

BENGALIA LAND & CATTLE CO.
 Tulsa, Oklahoma

Vis: 63	Wt: 9.5	WL: 7.2	LCM: 4#
PV: 18	YP: 22	Gels: 15/48	
pH: 10.0	C: (4,000)		
Ca (40)	Solids: 8.3%		
LCM: 5#			
100 units = 1% Gas			
TG: (1-C5)			100

xxxxxx RTD @ 6,200' xxxxxx
 ^ CFS @ 6,200': 75"
 ^ ST: 6 stands.
 ^ CHC: 70"
 Work Kelly (every 15').
 No Shake.
 Check Box (every 15") for
 Volume & Type of Fill.
 ^ Hole Dev: 1.5 deg @ RTD.
 ^ E-LOG.
 (Allied Horizontal Wireline)

Geologist:
 Curtis Covey
 COVEY - The Well Watchers
 Well Number: 1,181

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



Phone: 316-337-6200
Fax: 346-337-6211
<http://kcc.ks.gov/>

Dwight D. Keen, Chair
Shari Feist Albrecht, Commissioner
Susan K. Duffy, Commissioner

Laura Kelly, Governor

January 13, 2020

CALVIN R. HULLUM JR.
Bengalia Land and Cattle Company
PO BOX 521008
TULSA, OK 74152-1008

Re: ACO-1
API 15-055-22522-00-00
FARIS 2
SE/4 Sec.35-26S-31W
Finney County, Kansas

Dear CALVIN R. HULLUM JR.:

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

The above referenced well was spudded on 8/21/2019 and the ACO-1 was received on January 13, 2020 (not within the 120 days timely requirement).

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

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

Sincerely,

Production Department