Confidentiality Requested:
☐ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1113190

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 # 34320
Name: Lasso Energy LLC
Address 1: PO Box 465
Address 2: 1125 South Main
City: Chase State: KS Zip: 67524 + __ __ __ __
Contact Person: Bruce Kelso
Phone: (620) 259-4000
CONTRACTOR: License # 34484
Name: Fossil Drilling, Inc.
Wellsite Geologist: Derek W. Patterson
Purchaser: n/a

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 #:

01/09/2013	01/28/2013	01/29/2013
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-047-21615-00-00
Spot Description: C SE SE SE
_ - SE - SE - SE Sec. 30 Twp. 26 S. R. 16 ☐ East ☑ West
330 Feet from ☐ North / ☑ South Line of Section
330 Feet from ☑ East / ☐ West Line of Section

Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☑ SE ☐ SW

GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Edwards
Lease Name: WOOD Well #: 2
Field Name: WILDCAT
Producing Formation: ARBUCKLE
Elevation: Ground: 2095 Kelly Bushing: 2107
Total Vertical Depth: 5275 Plug Back Total Depth: 5275
Amount of Surface Pipe Set and Cemented at: 506 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: 8000 ppm Fluid volume: 1100 bbls
Dewatering method used: Hauled to Disposal

Location of fluid disposal if hauled offsite:

Operator Name: OPIK
Lease Name: Palmatier License #: 8061
Quarter SW Sec. 16 Twp. 25 S. R. 16 ☐ East ☑ West
County: Edwards Permit #: D-20,983

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: 02/01/2013
☑ **Confidential Release Date:** 02/01/2015
☑ **Wireline Log Received**
☑ **Geologist Report Received**
☑ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 02/05/2013

1113190

Operator Name: Lasso Energy LLC Lease Name: WOOD Well #: 2

Sec. 30 Twp. 26 S. R. 16 ☐ East ☑ West County: Edwards

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 ☐ Yes ☑ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:

Attached

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

Name: Attached Top: Attached Datum: Attached

CASING RECORD ☑ New ☐ Used

Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
SURFACE	12.25	8.625	23.0	506	COMMON	400	see cement ticket
PRODUCTION	7.875	5.5	15.5	5162	AA2	320	see cement ticket

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate ___ Protect Casing ___ Plug Back TD ___ Plug Off Zone	-			
	-			

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 *(Amount and Kind of Material Used)*	Depth
1	perforations	perforations	4990-5150
	open hole		5163-5275

TUBING RECORD: Size: 3.5 Set At: 4963 Packer At: 4963

Liner Run: ☐ Yes ☑ No

Date of First, Resumed Production, SWD or ENHR. 02/01/2013

Producing Method: ☐ Flowing ☐ Pumping ☐ Gas Lift ☑ Other *(Explain)* SWD

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	0	0	0	0	

DISPOSITION OF GAS: ☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION: ☑ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*
☐ Other *(Specify)*

PRODUCTION INTERVAL: ARBUCKLE 4990-5275

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Lasso Energy LLC
Well Name	WOOD 2
Doc ID	1113190

All Electric Logs Run

Drilling/Mud Log
PORMLT
CST
PIT

Form	ACO1 - Well Completion
Operator	Lasso Energy LLC
Well Name	WOOD 2
Doc ID	1113190

Tops

Name	Top	Datum
Topeka	3548	-1441
King Hill	3638	-1531
Queen Hill	3735	-1628
Heebner	3865	-1758
Toronto	3884	-1777
Douglas	3898	-1791
Brown Lime	4012	-1905
Lansing	4028	-1921
LKC 'B'	4045	-1938
LKC "C"	4070	-1963
LKC 'D'	4100	-1993
LKC 'G'	4120	-2013
Muncie Creek	4161	-2054
LKC 'H'	4164	-2057
Stark	4245	-2138
LKC 'K'	4253	-2146
Hushpuckney	4290	-2183
LKC 'L'	4297	-2190
Base Kansas City	4318	-2211
Pleasanton	4335	-2228
Marmaton	4371	-2264
Pawnee	4456	-2349
Fort Scott	4484	-2377
Cherokee	4492	-2385

Form	ACO1 - Well Completion
Operator	Lasso Energy LLC
Well Name	WOOD 2
Doc ID	1113190

Tops

Name	Top	Datum
Mississippian	4528	-2421
Kinderhook	4561	-2454
Misener Sand	4578	-2471
Base Misener Sand	4630	-2523
Viola	4640	-2533
Simpson	4798	-2691
Arbuckle	4890	-2783

BASIC ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

FIELD SERVICE TICKET
1718 07804 A

DATE TICKET NO.

DATE OF JOB 1-19-13	DISTRICT Pratt	NEW WELL ☑ OLD WELL ☐ PROD ☐ INJ ☐ WDW ☐	CUSTOMER ORDER NO.:
CUSTOMER Lasso Energy		LEASE Wood	WELL NO. 2
ADDRESS		COUNTY Edwards	STATE Ks
CITY	STATE	SERVICE CREW Orlando, McBrew, Lawrence	
AUTHORIZED BY		JOB TYPE:	

EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS
27283	1				
19903-19905	1				
19826-19860	1				

	DATE	TIME
TRUCK CALLED	1-19-13	AM PM 8:00
ARRIVED AT JOB		AM PM 1:00
START OPERATION		AM PM 7:00
FINISH OPERATION		AM PM 8:20
RELEASED		AM PM 9:20
MILES FROM STATION TO WELL		30

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
CP106	AServ Lite	SK	150		1950 00
CP105	AA2 Cement	SK	170		2890 00
CP106	AServLite	SK	50		650 00
CC102	Celloflake	Lb	93		344 10
CC105	C-41P - Defoamer	Lb	32		1280 00
CC111	Salt	Lb	855		427 50
CC112	Friction Reducer	Lb	80		480 00
CC201	Bentonite	Lb	850		569 50
CF607	Latch Down plug+Baffle 5½	ea	1		400 00
CF1251	Autofill Float Shoe 5½	ea	1		360 00
CF1651	Turbolizer 5½	ea	10		1100 00
CF1901	Basket 5½	ea	1		290 00
CC154	SuperFlush	GL	500		1225 00
E100	Pickup Mileage	mi	30		127 80
E101	Heavy Equipment Mileage	mi	60		420 00
E113	Bulk Delivery	Tm	503		804 80
CE206	Depth Charge 5001-6000	ea	1		2880 00
CE240	Blending & Mixing	Sx	370		518 00
CE504	Plug Container	ea	1		250 00
5003	Service Supervisor	ea	1		175 00
				SUB TOTAL	11,991 45

CHEMICAL / ACID DATA:

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

SERVICE REPRESENTATIVE

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

FIELD SERVICE ORDER NO.

BASIC energy services, L.P.

TREATMENT REPORT

Customer: Lasso Energy	Lease No.			Date: 1-19-13	
Lease: Wood	Well #: 2				
Field Order #: 3804	Station: Pratt	Casing: 5½	Depth: 5162	County: Edwards	State: KS
Type Job: CNW - 5½ L.S.	Formation			Legal Description: 30-26-16	

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size: 5½ 17#	Tubing Size	Shots/Ft		150sks ~~A~~ Aserv Lite	RATE	PRESS	ISIP
Depth: 5162	Depth	From	To	Pre Pad: 1.73	Max		5 Min.
Volume: ~~15.8~~ 7	Volume	From	To 170sks	Pad: AA2 Cemt	Min		10 Min.
Max Press: 1500	Max Press	From	To	Frac: 1.42	Avg		15 Min.
Well Connection: P.C.	Annulus Vol.	From	To 50sks	Aserv Lite for RH/MH	HHP Used		Annulus Pressure
Plug Depth: 5143	Packer Depth	From	To	Flush: 119.5 ~~bbls~~	Gas Volume		Total Load

Customer Representative: Craig	Station Manager: Dave Scott	Treater: Steve Orlando

Service Units	22783	19903	19905	19824	19860						
Driver Names	Orlando	McBraw		Lawrence							

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
2:00PM					On location-Safety Meeting
					Run 122 Jts 5½ Csg
					Centralizers 2-4-6-8-10-14-16-18-20-23
					Basket on #22
					Casing On Bottom Break Circ w/Rig
7:07	300		5	5	H2O
7:09	300		12	5	Super Flush
7:11	300		5	5	H2O Spacer
7:12	300		46	5	Mix 150 sks Aserv Lite @ 13#
7:20	150		43	5	Mix 170 sks AA2 @ 15#
					Shut Down Clear pump & line
					Release Plug
7:37	0		0	6	Start H2O Displacement
7:47	300		60	5	Lift Pressure
7:57	650		110	4	Slow Rate
8:00PM	1500		119.5 ~~133.4~~	4	Plug Down - Held
			6/4		Mix 50 sks for RH/MH

Taylor Printing, Inc. 620-672-3656

BASIC ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

FIELD SERVICE TICKET
1718 07707 A

DATE TICKET NO.

DATE OF JOB 01-10-13 DISTRICT PRATT KS	NEW WELL ☑ OLD WELL ☐ PROD ☐ INJ ☐ WDW ☐ CUSTOMER ORDER NO.:
CUSTOMER LASSO - ENERGY	LEASE WOOD 2 WELL NO.
ADDRESS	COUNTY EDWARDS STATE KS
CITY STATE	SERVICE CREW Sullivan, Edmiston, Phyle
AUTHORIZED BY	JOB TYPE CNW 8 5/8 Surface

EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS
19889 - 19843	40	"			
70959 - 19948	40	"			
37980					

	DATE	TIME
TRUCK CALLED	01-10-13	AM PM 2:30
ARRIVED AT JOB		AM PM 4:45
START OPERATION		AM PM 7:50
FINISH OPERATION		AM PM 8:30
RELEASED		AM PM 9:00
MILES FROM STATION TO WELL		30

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
CP 106	A-Serv-Lite	SK	200		2,600 00
CP 100	Common cmt	SK	200		3,200 00
CC 102	Cellflake	LB	100		370 00
CC 109	Calcium chloride	LB	898		942 00
CF 153	wooden Plug 8 5/8	EA	1		160 00
CC 131	Sugar	LB	50		100 00
E 100	pickup	MI	30		127 50
E 101	Heavy Eq mt	MI	60		420 00
E 113	Bulk Delivery	TM	543		866 40
CE 200	Depth charge 0-500	EA	1		1,000 00
CE 240	Blending & mixing	SK	400		560 00
CE 504	Plug Container Rental	EA	1		260 00
S 003	Service Supervisor	EA	1		175 00

CHEMICAL / ACID DATA:			

SUB TOTAL DLS 8,080.65

SERVICE & EQUIPMENT	%TAX ON $	
MATERIALS	%TAX ON $	
Thank you	TOTAL	

SERVICE REPRESENTATIVE Robert Sullivan

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

FIELD SERVICE ORDER NO.

BASIC energy services

TREATMENT REPORT

Customer: LASSO ENERGY	Lease No.:	Date: 01-10-13	
Lease: WOOD	Well #: 2		
Field Order #: 7707	Station: PRATT	Casing: 8 5/8	Depth: 521'
County: EDWARDS	State: KS		
Type Job: CNW 8 5/8 Surface	Formation:	Legal Description: 30-26-16	

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size: 8 5/8	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
Depth: 521	Depth	From	To	Pre Pad	Max		5 Min.
Volume: 32	Volume	From	To	Pad	Min		10 Min.
Max Press: 300	Max Press	From	To	Frac	Avg		15 Min.
Well Connection: P.C	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth: 508	Packer Depth	From	To	Flush	Gas Volume		Total Load

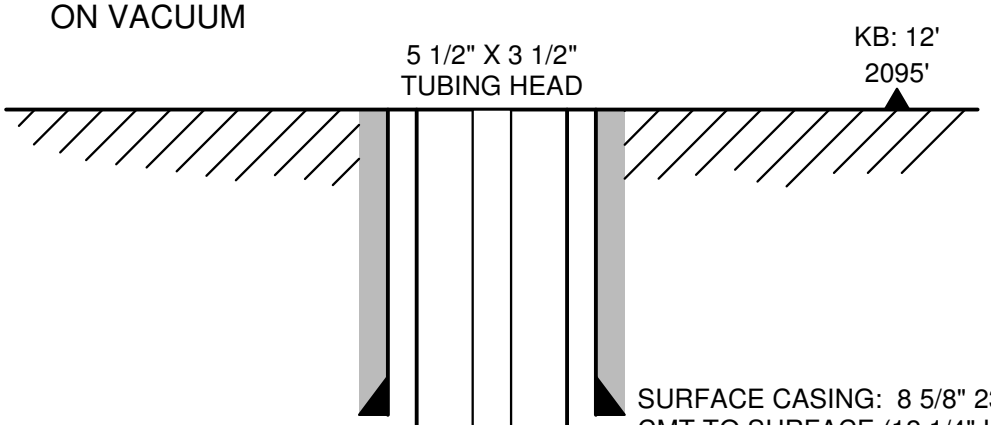
Customer Representative				Station Manager: DAVE SCOTT		Treater: Robert Sullivan						
Service Units	37900	19889	19843	70959	19918							
Driver Names	Sullivan	MARQUEZ		PAYE								

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
4:45					ON LOC SAFETY MEETING
					RUN 8 JTS 8 5/8 #23 CSG
6:40					CASING ON BOTTOM
6:50					HOOK RIG TO CIRC
7:50	150		3	4	ST SPACER
			59	4.5	MIX CMT 200 SK A-SERV LITE 3%CC 1/4#F
			42		MIX TAIL CMT 200 SK COMMON 2%CC 1/4#F
					CMT MIXED SHUT DOWN
					RELEASE PLUG
					ST DISP
8:30			32		PLUG DOWN
					CMT 8 BBL TO PIT
					JOB COMPLETE
					THANK YOU

Taylor Printing, Inc. 620-672-3656

REVISION:	DESCRIPTION:	WELL No: 2 SWD	REV.

10,000 BBL PER DAY CAPACITY ON VACUUM



SURFACE CASING: 8 5/8" 23#/FT 12 JTS @ 506'
CMT TO SURFACE (12 1/4" HOLE) - 400 SX
BOTTOM OF CEMENT 507'

PRODUCTION CASING:
5 1/2" @ 5162' - 15.5lb/ft
4400 PSIG TEST
4.825" DRIFT ID
7 7/8" HOLE (BIT)
SET CLPG 12" AGL

TOC: 3195' W/320 SX

CHAMPION PACKER
FLUID AND FRESH KCL WATER

TUBING:
3 1/2" @ 4963'
152 JOINTS
J55 API UPSET
CERAMIC COATED
LARGE ID

PACKER DEPTH: 4963'
5 1/2" X 3 1/2" BAKER AD1 TENSION
COATED (30,000 LBS TENSON)

3 1/2" COATED TAIL PIPE
X 6' LONG

ARBUCKLE PERFORATIONS
4990 - 5150' (160' OF PERFS)
1 SPF

DRILL OUT A LITTLE CEMENT,
DRILL OUT RUBBER PLUG,
FLAPPER VALVE SHOE,
18' SHORT JOINT OF CEMENT
SHOE WITH 4 7/8" BIT

BOTTOM OF 5 1/2" CASING: 5163'
BOTTOM OF CEMENT: 5163'
(BOTTOM OF RTD AND CASING SHOE)

ARBUCKLE
OPEN HOLE (4 7/8" HOLE)
5163' TO 5275' (112')

PBTD: 5275'
TD: 5275'

NOTES:

TOP OF ARBUCKLE: 4897'
BOTTOM OF ARBUCKLE: 5275' (TD & PBTD)
CASING SET 266' INTO TOP OF ARBUCKLE
112' OF OPEN HOLE
ARBUCKLE PERFS FROM 4990' TO 5150' (160')

PACKER SET 27' ABOVE FROM TOP ARBUCKLE PERF.
PACKER SET 200' ABOVE FROM OPEN HOLE
PACKER SET 66' BELOW THE TOP OF ARB.
TD MAYBE IN GRANITE
PASSED PRE MIT ON 1/30/2013 FOR 300 PSIG FOR 30 MIN.
STEP RATE DISPOSAL TEST: 160 BBL / 10 MIN

DOWNHOLE TEMP: 130 DEG F MAX

DRAWN: *BK* 11/09/12
APPROVED:
LEASE: WOOD
WELL No: 2 SWD
REV.
SCALE: N/A
LOCATION: EDWARDS COUNTY, KANSAS

LassoEnergy LLC

TOLERANCES
(Unless Otherwise Specified)
Fractional..... ±1/32"
2 Place Decimal..... ±.030
3 Place Decimal..... ±.005
4 Place Decimal..... ± .001

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

Well Name:	Wood #2 SWD		
Location:	Sec. 30 - T26S - R16W, Edwards County, KS		
Licence Number:	API No.: 15-047-21615-0000	Region:	Trousdale West
Spud Date:	January 9, 2013	Drilling Completed:	January 28, 2013
Surface Coordinates:	330' FNL & 330' FWL (SE SE SE)		
Bottom Hole Coordinates:			
Ground Elevation (ft):	2095'	K.B. Elevation (ft):	2107'
Logged Interval (ft):	3400' To: 5200'	Total Depth (ft):	5275' (DDRTD)
Formation:	SWD Well Completion in Arbuckle		
Type of Drilling Fluid:	Chemical Gel/Fresh Water Gel		

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

OPERATOR

Company: Lasso Energy, LLC
Address: P.O. Box 465
1125 South Main
Chase, KS 67524

GEOLOGIST

Name: Derek W. Patterson
Company: Valhalla Exploration, LLC
Address: 133 N. Glendale
Wichita, KS 67208

REMARKS

5 1/2" production casing was ran and cemented in the Arbuckle for completion as a salt water disposal well. Casing was set @ 5162' KB. The well was then open holed from this point to its drill down rotary total depth of 5275'.

The well samples were saved, submitted, and will be available for review at the Kansas Geologic Survey's Well Sample Library located in Wichita, KS.

Respectfully Submitted,

Derek W. Patterson

COMMENTS

The drill time and gas curves have been shifted 6' shallow/higher to correspond with the electric log curves. All connection points have also been moved to match the overall shift.

LassoEnergy LLC

General Information

Service Companies			
Drilling Contractor:	Fossil Drilling - Rig #3	Drilling Fluid:	Mud-Co/Service Mud
		Engineer:	Brad Bortz
Gas Detector:	Bluestem Environmental		
Engineer:	Sidney Edelbrock	Logging Company:	Tucker Wireline
Unit:	0279	Engineer:	Sheldon Tyler
Operational By:	1600'	Logs Ran:	DI, CDNL, Micro, Sonic
		Testing Company:	N/A - No DSTs

Deviation Survey	
Depth	Survey
523'	3/4°
2080'	1/2°
2523'	1/4°
3950'	3/4°
4672'	1°
5200' - RTD	1°

Pipe Strap	
Depth	Pipe Strap
None Performed	

Bit Record								
Bit #	Size	Make	Type	Serial Number	Depth In	Depth Out	Feet	Hours
1	12 1/4"	Varel	RT	RR	0'	523'	523'	4.5
2	7 7/8"	Varel	HE21	1324091	523'	4672'	4149'	115
3	7 7/8"	Security	RR	RR	4672'	5200'	528'	41.5

Surface Casing	
1.10.2013	Ran 12 joints of new 8 5/8" casing, set @ 506' KB. Cemented with 200 sacks A-Serv Lite and 200 sacks Common. Cement did circulate. Plug down @ 0830 hrs 1.10.13. By Basic Energy Services.

Production Casing	
1.19.2013	Ran 122 joints of new 17 #/ft 5 1/2" production casing, tallying 5162.26' set @ 5162' KB. Cemented with 150 sacks A-Serv Lite and 170 sacks AA2. Cement did circulate. Plug down @ 2000 hrs 1.19.13. By Basic Energy Services.

LassoEnergy LLC

Well Comparison Sheet

	Drilling Well				Comparison Well				Comparison Well			
	Lasso Energy, LLC - Wood #2 SWD Sec. 30 - T26S - R16W 330' FSL & 330' FEL (SE SE SE) 2107 KB				Lasso Energy, LLC - Wood #1 'OWWO' Sec. 30 - T26S - R16W 1320' FSL & 2245' FEL Oil - Mississippian 2107 KB		Structural Relationship		Vincent Oil - Thompson #1 'OWWO' Sec. 30 - T26S - R16W 330' FSL & 2310' FWL (SE SE SW) Oil - Pleasanton 2102 KB		Structural Relationship	
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
Topeka	3552	-1445	3548	-1441	3554	-1447	2	6	3572	-1470	25	29
King Hill	3645	-1538	3638	-1531	3644	-1537	-1	6	3657	-1555	17	24
Queen Hill	3741	-1634	3735	-1628	3745	-1638	4	10	3756	-1654	20	26
Heebner	3871	-1764	3865	-1758	3874	-1767	3	9	3883	-1781	17	23
Toronto	3890	-1783	3884	-1777	3890	-1783	0	6	3907	-1805	22	28
Douglas	3904	-1797	3898	-1791	3907	-1800	3	9	3927	-1825	28	34
Brown Lime	4017	-1910	4012	-1905	4018	-1911	1	6	4035	-1933	23	28
Lansing	4035	-1928	4028	-1921	4036	-1929	1	8	4050	-1948	20	27
LKC 'B'	4051	-1944	4045	-1938	4053	-1946	2	8	4067	-1965	21	27
LKC 'C'	4080	-1973	4070	-1963	4079	-1972	-1	9	4093	-1991	18	28
LKC 'D'	4106	-1999	4100	-1993	4108	-2001	2	8	4125	-2023	24	30
LKC 'G'	4125	-2018	4120	-2013	4128	-2021	3	8	4142	-2040	22	27
Muncie Creek	4171	-2064	4161	-2054	4176	-2069	5	15	4185	-2083	19	29
LKC 'H'	4174	-2067	4164	-2057	4179	-2072	5	15	4192	-2090	23	33
Stark	4250	-2143	4245	-2138	4257	-2150	7	12	4269	-2167	24	29
LKC ' K'	4256	-2149	4253	-2146	4262	-2155	6	9	4276	-2174	25	28
Hushpuckney	4296	-2189	4290	-2183	4300	-2193	4	10	4313	-2211	22	28
LKC 'L'	4310	-2203	4297	-2190	4312	-2205	2	15	4329	-2227	24	37
Base Kansas City	4324	-2217	4318	-2211	4330	-2223	6	12	4346	-2244	27	33
Pleasanton	4342	-2235	4335	-2228	4344	-2237	2	9	4360	-2258	23	30
Marmaton	4378	-2271	4371	-2264	4383	-2276	5	12	4394	-2292	21	28
Pawnee	4463	-2356	4456	-2349	4469	-2362	6	13	Not Available			
Fort Scott	4486	-2379	4484	-2377	4489	-2382	3	5	Not Available			
Cherokee	4500	-2393	4492	-2385	4503	-2396	3	11	4525	-2423	30	38
Mississippian	4536	-2429	4528	-2421	4550	-2443	14	22	4604	-2502	73	81
Kinderhook	4568	-2461	4561	-2454	4597	-2490	29	36	4653	-2551	90	97
Misener Sand	4585	-2478	4578	-2471	4615	-2508	30	37	4672	-2570	92	99
Base Misener Sand	4634	-2527	4630	-2523	4668	-2561	34	38				
Viola	4676	-2569	4640	-2533	4681	-2574	5	41	Not Penetrated			
Simpson	4811	-2704	4798	-2691	4828	-2721	17	30				
Arbuckle	4897	-2790	4890	-2783	4911	-2804	14	21				
Total Depth	5200	-3093	5196	-3089	4978	-2871	-222	-218	4700	-2598	-495	-491
Drill Down Total Depth	5275	-3168	5265	-3158								

ROCK TYPES

LITHOLOGY
- Anhy
- Bent
- Brec
- Chert
- Clyst
- Coal
- Congl
- Dol1
- Dol2
- Dol3
- Gyp
- Igne
- Lmst1
- Lmst2
- Lmst3
- Lmst sndy
- Meta
- Salt
- Sh brn
- Sh carb
- Sh grn
- Sh gry
- Sh red
- Sh teal
- Sh wht
- Slstn
- Sltst
- Ss
- Till
- Blank
- Unknown
- Dtd
- Pipe sym

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

MINERAL
- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Brecfrag
- Calc
- Carb
- Chlorite
- Chtdk
- Chtlt
- Dol
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr
- Salt
- Sand
- Sandy
- Silt
- Slty
- Sil
- Sulphur
- Tuff

STRINGER
- Anhy
- Arg
- Bent
- Clystn
- Coal
- Dol1
- Dol2
- Dol3
- Gry slt
- Gyp
- Lmst1
- Lmst2
- Lmst3
- Lmstsndy
- Mrst
- Sh carb
- Sh grn
- Sh gry
- Sh red
- Sltstrg
- Ssstrg

TEXTURE
- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest

OIL SHOW
- Gas show
- Good
- Fair
- Poor
- Dead

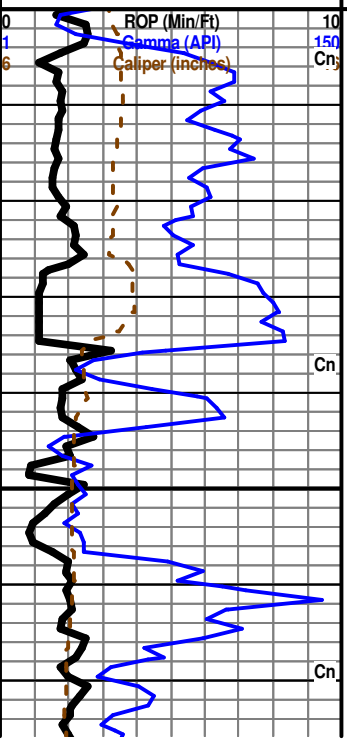
INTERVAL
- Dst
- Core
- Dst
- Straddle test t

EVENT
- Rft
- Sidewall
- Dst
- Open hole
- Perforations

Curve Track 1
ROP (Min/Ft)
Gamma (API)
Caliper (inches)

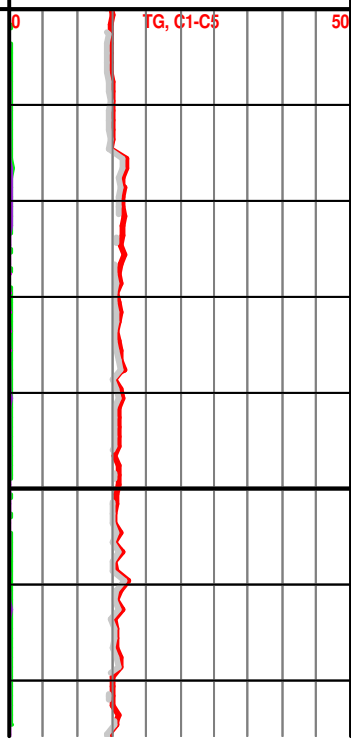
Depth | **Lithology** | **Oil Shows** | **Geological Descriptions**

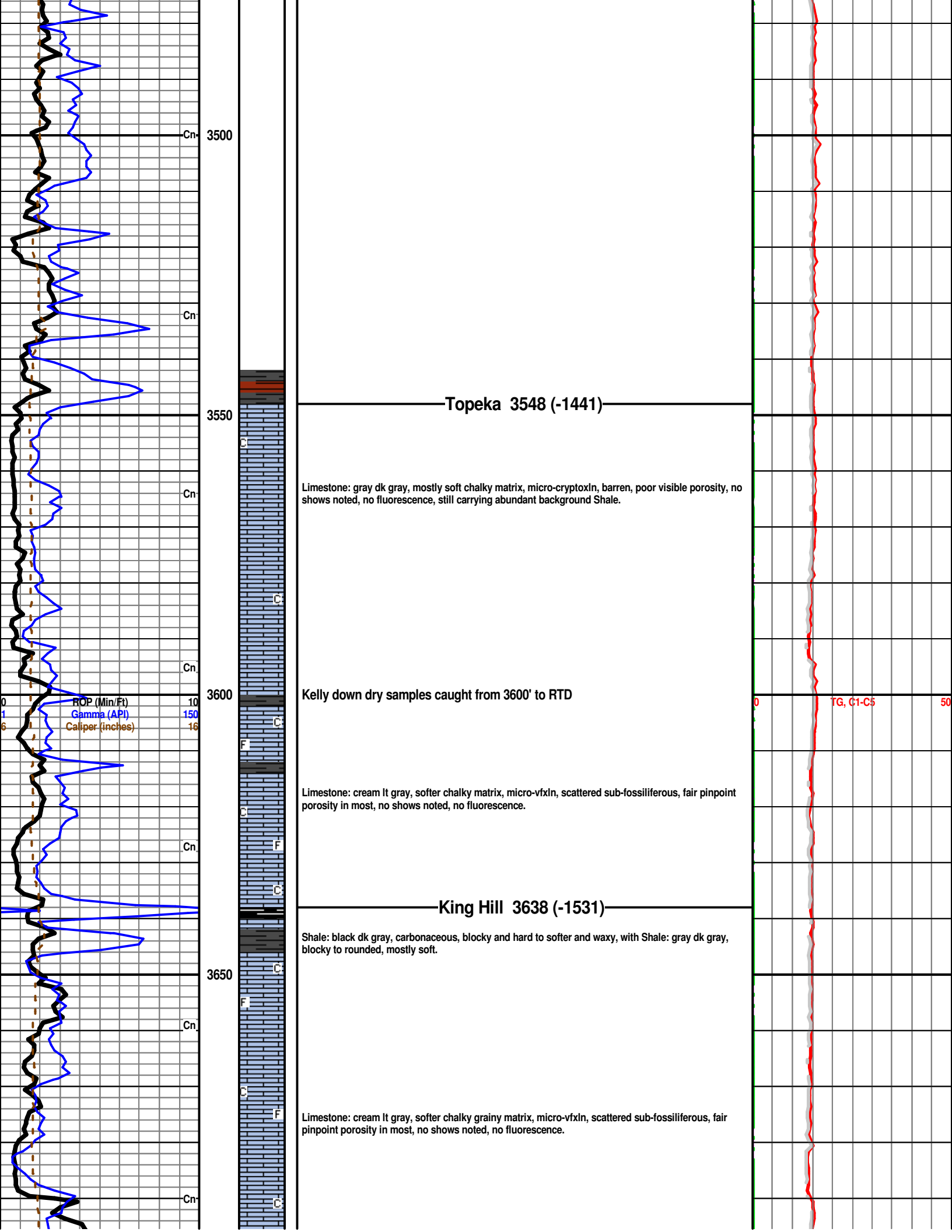
Engineering Data
TG (Units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
C5 (units)

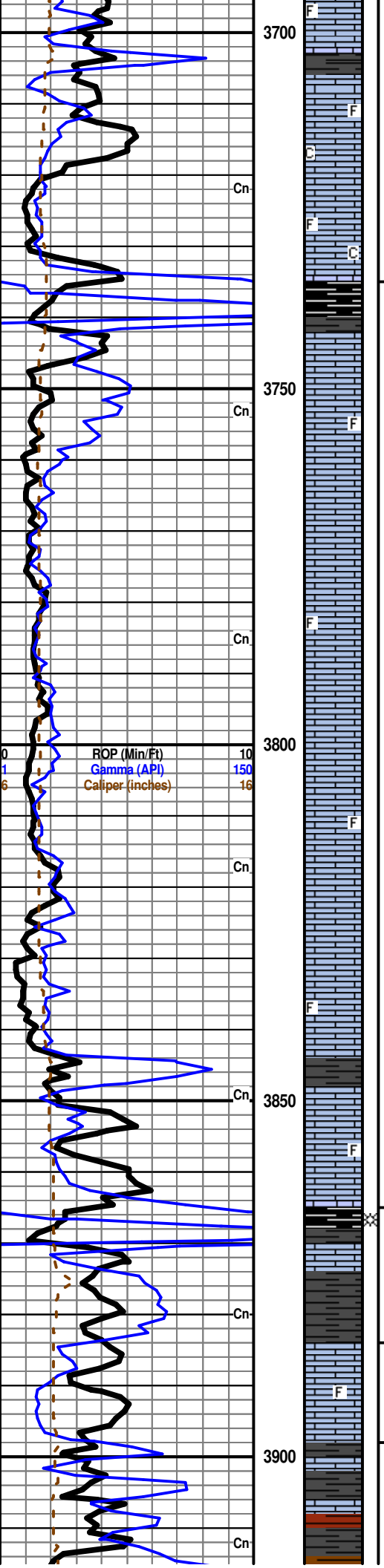


Dry samples evaluated from 3550' to the original RTD by geologist.

No wet samples available for analysis.




Cn
3500
Cn
3550
Cn
Cn
3600
0
ROP (Min/Ft)
10
1
Gamma (API)
150
6
Caliper (inches)
16
Cn
Cn
3650
Cn
Cn
C
C
C
F
C
F
C
C
F
C
F
C
Topeka 3548 (-1441)
Limestone: gray dk gray, mostly soft chalky matrix, micro-cryptoxln, barren, poor visible porosity, no shows noted, no fluorescence, still carrying abundant background Shale.
Kelly down dry samples caught from 3600' to RTD
Limestone: cream lt gray, softer chalky matrix, micro-vfxln, scattered sub-fossiliferous, fair pinpoint porosity in most, no shows noted, no fluorescence.
King Hill 3638 (-1531)
Shale: black dk gray, carbonaceous, blocky and hard to softer and waxy, with Shale: gray dk gray, blocky to rounded, mostly soft.
Limestone: cream lt gray, softer chalky grainy matrix, micro-vfxln, scattered sub-fossiliferous, fair pinpoint porosity in most, no shows noted, no fluorescence.
0
TG, C1-C5
50



Limestone: cream lt cream off white, softer chalky matrix, vfxln, fossiliferous to sub-fossiliferous, fair interxln porosity, no shows noted, no fluorescence, with Limestone: gray lt gray, dense tighter cherty matrix, cryptoxln, nearly all barren, poor visible porosity, no shows noted, no fluorescence.

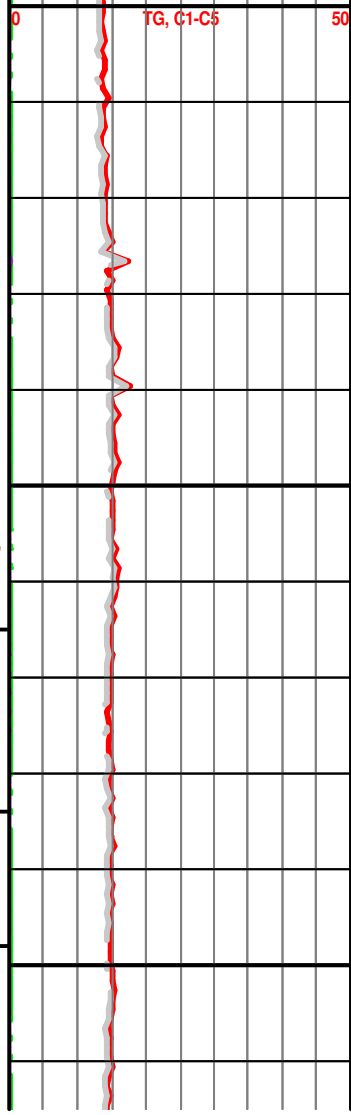
Limestone: cream lt cream off white, softer chalky matrix, vfxln, fossiliferous to sub-fossiliferous, fair interxln/pinpoint porosity, no shows noted, no fluorescence.

Queen Hill 3735 (-1628)

Shale: black dk gray, carbonaceous, blocky and hard to softer and waxy, with Shale: gray dk gray, blocky to rounded, mostly soft.

Limestone: cream tan lt gray, some mottled, dense to slightly friable matrix, vfxln, scattered sub-fossiliferous, abundant 2ndary xln fill and along edges, fair interxln porosity, no shows noted, no fluorescence.

Limestone: cream tan lt gray, some mottled, dense to slightly friable matrix, vfxln, scattered sub-fossiliferous, abundant 2ndary xln fill and along edges, fair interxln porosity, no shows noted, no fluorescence.



Limestone: cream lt gray off white, mostly dense matrix, micro-vfxln, sub-fossiliferous to barren, fair-poor interxln porosity, no shows noted, no fluorescence.

Limestone: cream lt gray off white, mostly dense matrix, micro-vfxln, fossiliferous to sub-fossiliferous, fair-poor interxln porosity, no shows noted, no fluorescence.

Heebner 3865 (-1758)

Shale: black dk gray, carbonaceous, blocky, hard to slightly waxy, fair gas show, with Shale: gray dk gray, blocky, mostly soft, abundant fissile material.

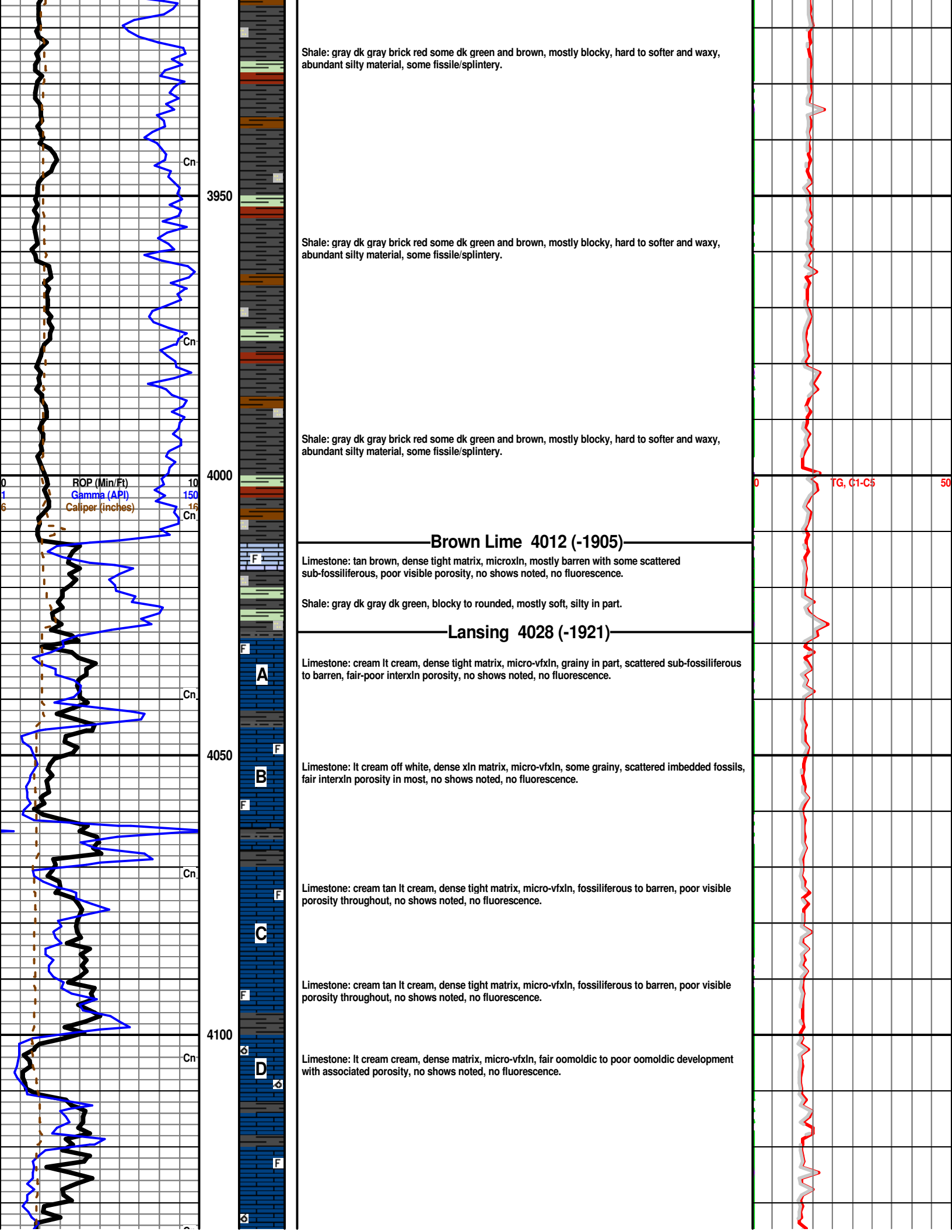
Shale: gray dk gray, blocky, mostly soft, abundant fissile material.

Toronto 3884 (-1777)

Limestone: cream tan gray, mostly dense xln matrix, micro-cryptoxln, nearly all barren, poor visible porosity, no shows noted, no fluorescence, with scattered Limestone: cream lt cream, dense matrix, micro-vfxln, sub-fossiliferous, poor interxln porosity, no shows noted, no fluorescence.

Douglas 3898 (-1791)

INFLUX Shale: gray dk gray, blocky, hard to slightly waxy, fissile, with interbedded Limestone: gray, dense matrix, lithographic non-descript, no visible porosity, no shows noted, no fluorescence.



Shale: gray dk gray brick red some dk green and brown, mostly blocky, hard to softer and waxy, abundant silty material, some fissile/splintery.

Shale: gray dk gray brick red some dk green and brown, mostly blocky, hard to softer and waxy, abundant silty material, some fissile/splintery.

Shale: gray dk gray brick red some dk green and brown, mostly blocky, hard to softer and waxy, abundant silty material, some fissile/splintery.

Brown Lime 4012 (-1905)

Limestone: tan brown, dense tight matrix, microxln, mostly barren with some scattered sub-fossiliferous, poor visible porosity, no shows noted, no fluorescence.

Shale: gray dk gray dk green, blocky to rounded, mostly soft, silty in part.

Lansing 4028 (-1921)

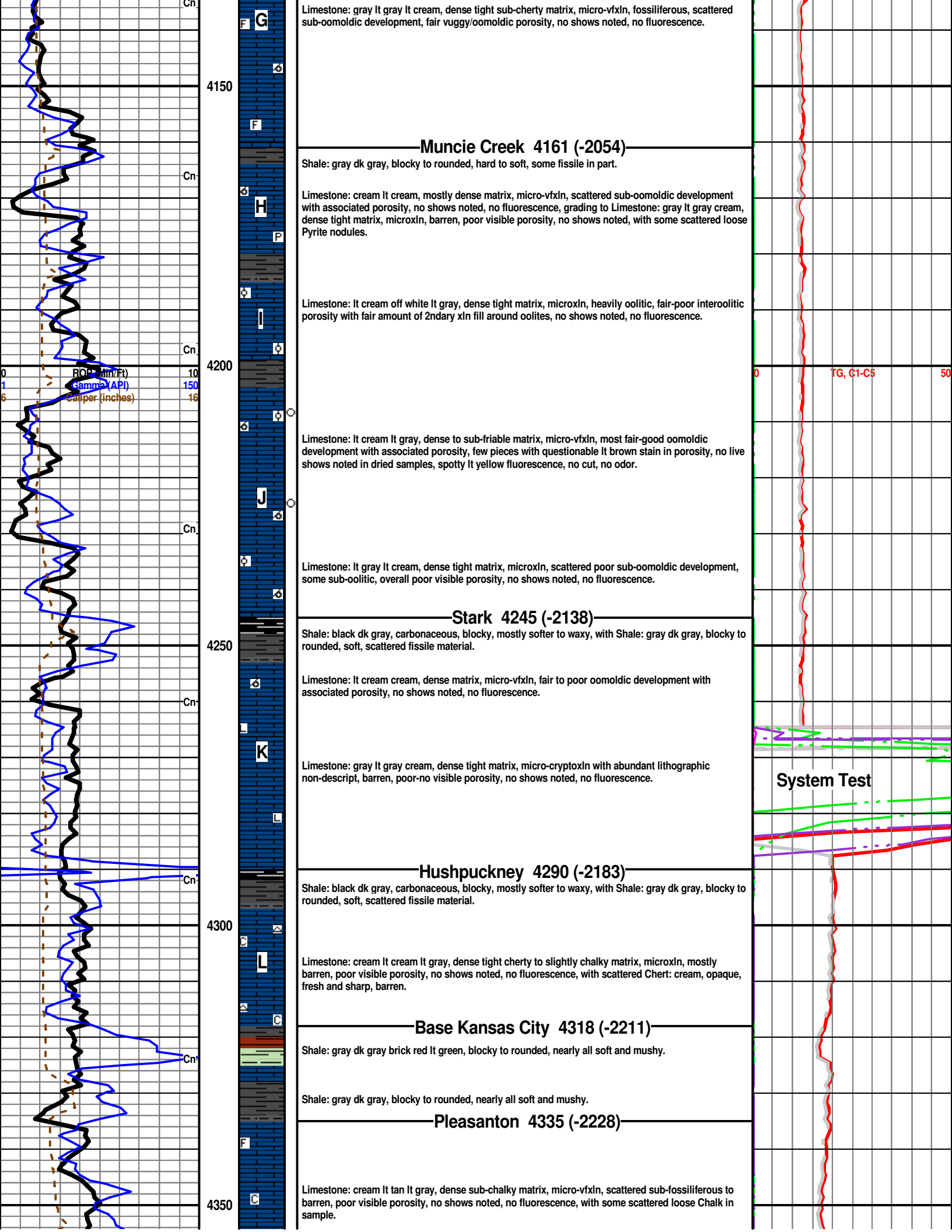
Limestone: cream lt cream, dense tight matrix, micro-vfxln, grainy in part, scattered sub-fossiliferous to barren, fair-poor interxln porosity, no shows noted, no fluorescence.

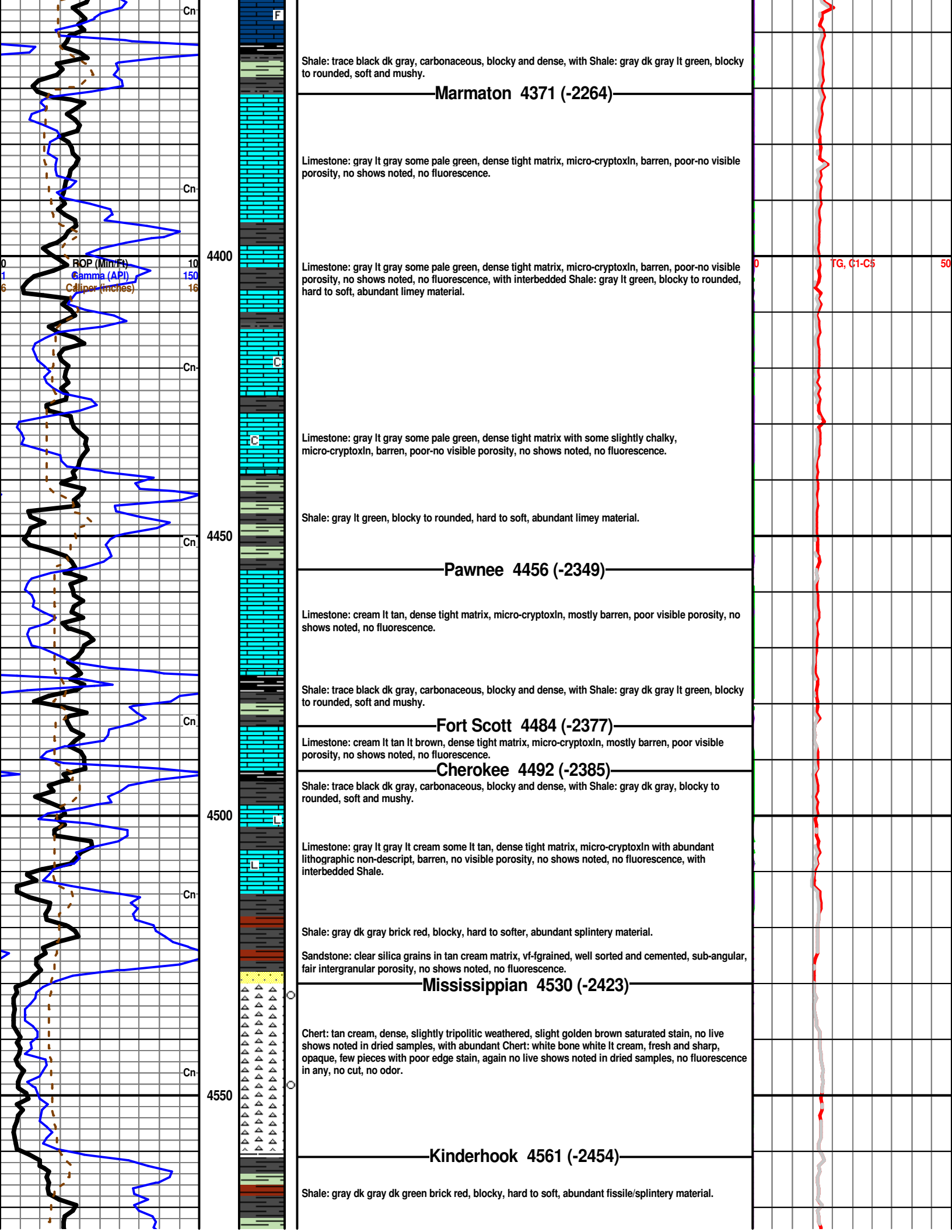
Limestone: lt cream off white, dense xln matrix, micro-vfxln, some grainy, scattered imbedded fossils, fair interxln porosity in most, no shows noted, no fluorescence.

Limestone: cream tan lt cream, dense tight matrix, micro-vfxln, fossiliferous to barren, poor visible porosity throughout, no shows noted, no fluorescence.

Limestone: cream tan lt cream, dense tight matrix, micro-vfxln, fossiliferous to barren, poor visible porosity throughout, no shows noted, no fluorescence.

Limestone: lt cream cream, dense matrix, micro-vfxln, fair oomoldic to poor oomoldic development with associated porosity, no shows noted, no fluorescence.


ROP (Min/Ft)
Gamma (API)
Caliper (inches)
TG, C1-C5
System Test
4150
4200
4250
4300
4350
Limestone: gray lt gray lt cream, dense tight sub-cherty matrix, micro-vfxln, fossiliferous, scattered sub-oomoldic development, fair vuggy/oomoldic porosity, no shows noted, no fluorescence.
Muncie Creek 4161 (-2054)
Shale: gray dk gray, blocky to rounded, hard to soft, some fissile in part.
Limestone: cream lt cream, mostly dense matrix, micro-vfxln, scattered sub-oomoldic development with associated porosity, no shows noted, no fluorescence, grading to Limestone: gray lt gray cream, dense tight matrix, microxln, barren, poor visible porosity, no shows noted, with some scattered loose Pyrite nodules.
Limestone: lt cream off white lt gray, dense tight matrix, microxln, heavily oolitic, fair-poor interoolitic porosity with fair amount of 2ndary xln fill around oolites, no shows noted, no fluorescence.
Limestone: lt cream lt gray, dense to sub-friable matrix, micro-vfxln, most fair-good oomoldic development with associated porosity, few pieces with questionable lt brown stain in porosity, no live shows noted in dried samples, spotty lt yellow fluorescence, no cut, no odor.
Limestone: lt gray lt cream, dense tight matrix, microxln, scattered poor sub-oomoldic development, some sub-oolitic, overall poor visible porosity, no shows noted, no fluorescence.
Stark 4245 (-2138)
Shale: black dk gray, carbonaceous, blocky, mostly softer to waxy, with Shale: gray dk gray, blocky to rounded, soft, scattered fissile material.
Limestone: lt cream cream, dense matrix, micro-vfxln, fair to poor oomoldic development with associated porosity, no shows noted, no fluorescence.
Limestone: gray lt gray cream, dense tight matrix, micro-cryptoxln with abundant lithographic non-descript, barren, poor-no visible porosity, no shows noted, no fluorescence.
Hushpuckney 4290 (-2183)
Shale: black dk gray, carbonaceous, blocky, mostly softer to waxy, with Shale: gray dk gray, blocky to rounded, soft, scattered fissile material.
Limestone: cream lt cream lt gray, dense tight cherty to slightly chalky matrix, microxln, mostly barren, poor visible porosity, no shows noted, no fluorescence, with scattered Chert: cream, opaque, fresh and sharp, barren.
Base Kansas City 4318 (-2211)
Shale: gray dk gray brick red lt green, blocky to rounded, nearly all soft and mushy.
Shale: gray dk gray, blocky to rounded, nearly all soft and mushy.
Pleasanton 4335 (-2228)
Limestone: cream lt tan lt gray, dense sub-chalky matrix, micro-vfxln, scattered sub-fossiliferous to barren, poor visible porosity, no shows noted, no fluorescence, with some scattered loose Chalk in sample.



Shale: trace black dk gray, carbonaceous, blocky and dense, with Shale: gray dk gray lt green, blocky to rounded, soft and mushy.

Marmaton 4371 (-2264)

Limestone: gray lt gray some pale green, dense tight matrix, micro-cryptoxln, barren, poor-no visible porosity, no shows noted, no fluorescence.

Limestone: gray lt gray some pale green, dense tight matrix, micro-cryptoxln, barren, poor-no visible porosity, no shows noted, no fluorescence, with interbedded Shale: gray lt green, blocky to rounded, hard to soft, abundant limey material.

Limestone: gray lt gray some pale green, dense tight matrix with some slightly chalky, micro-cryptoxln, barren, poor-no visible porosity, no shows noted, no fluorescence.

Shale: gray lt green, blocky to rounded, hard to soft, abundant limey material.

Pawnee 4456 (-2349)

Limestone: cream lt tan, dense tight matrix, micro-cryptoxln, mostly barren, poor visible porosity, no shows noted, no fluorescence.

Shale: trace black dk gray, carbonaceous, blocky and dense, with Shale: gray dk gray lt green, blocky to rounded, soft and mushy.

Fort Scott 4484 (-2377)

Limestone: cream lt tan lt brown, dense tight matrix, micro-cryptoxln, mostly barren, poor visible porosity, no shows noted, no fluorescence.

Cherokee 4492 (-2385)

Shale: trace black dk gray, carbonaceous, blocky and dense, with Shale: gray dk gray, blocky to rounded, soft and mushy.

Limestone: gray lt gray lt cream some lt tan, dense tight matrix, micro-cryptoxln with abundant lithographic non-descript, barren, no visible porosity, no shows noted, no fluorescence, with interbedded Shale.

Shale: gray dk gray brick red, blocky, hard to softer, abundant splintery material.

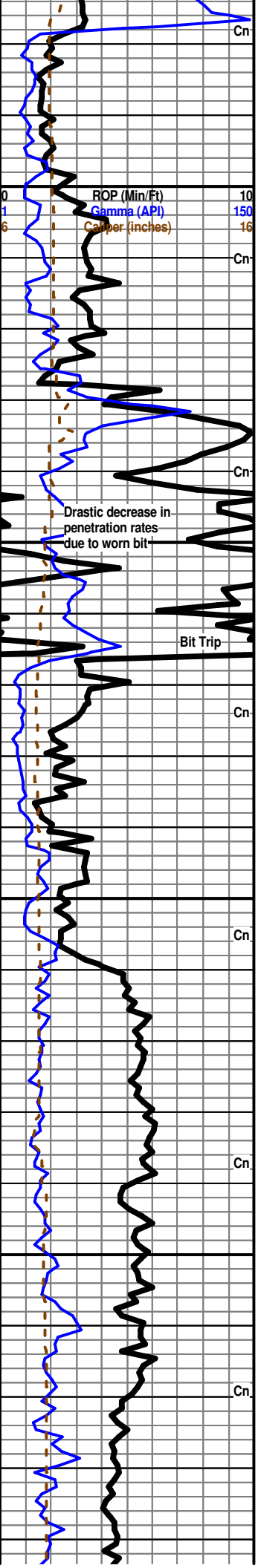
Sandstone: clear silica grains in tan cream matrix, vf-fgrained, well sorted and cemented, sub-angular, fair intergranular porosity, no shows noted, no fluorescence.

Mississippian 4530 (-2423)

Chert: tan cream, dense, slightly tripolitic weathered, slight golden brown saturated stain, no live shows noted in dried samples, with abundant Chert: white bone white lt cream, fresh and sharp, opaque, few pieces with poor edge stain, again no live shows noted in dried samples, no fluorescence in any, no cut, no odor.

Kinderhook 4561 (-2454)

Shale: gray dk gray dk green brick red, blocky, hard to soft, abundant fissile/splintery material.



Misener Sand 4578 (-2471)

Sandstone: clear silica grains in white lt cream matrix, vfgrained, well sorted, sub-friable to fairly cemented, sub-rounded to rounded, fair intergranular porosity, no shows noted, no fluorescence.

Sandstone: clear silica grains in white lt cream matrix, vfgrained, well sorted, sub-friable to fairly cemented, sub-rounded to rounded, fair intergranular porosity, no shows noted, no fluorescence.

Base Misener Sand 4630 (-2523)

Shale: gray dk gray dk green brick red, blocky, hard to soft, abundant fissile/splintery material.

Viola 4640 (-2533)

Very poor sample quality - No descriptions available prior to bit trip.

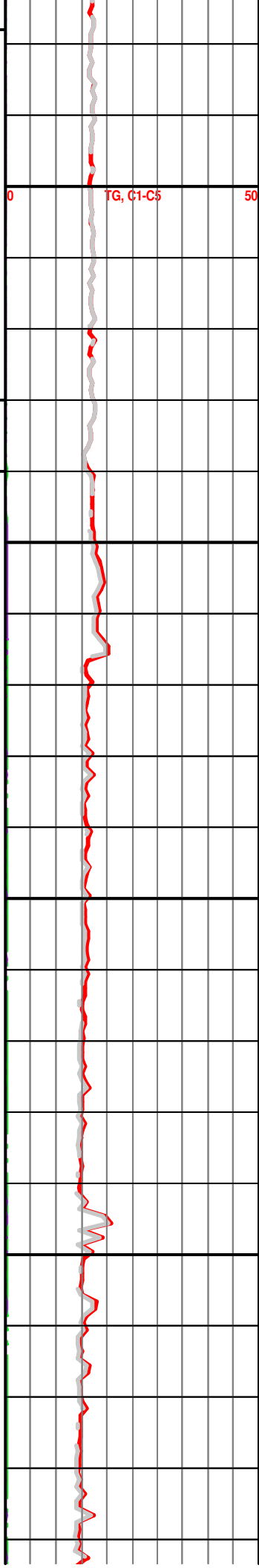
E-logs read dirty/shaley Limestone.

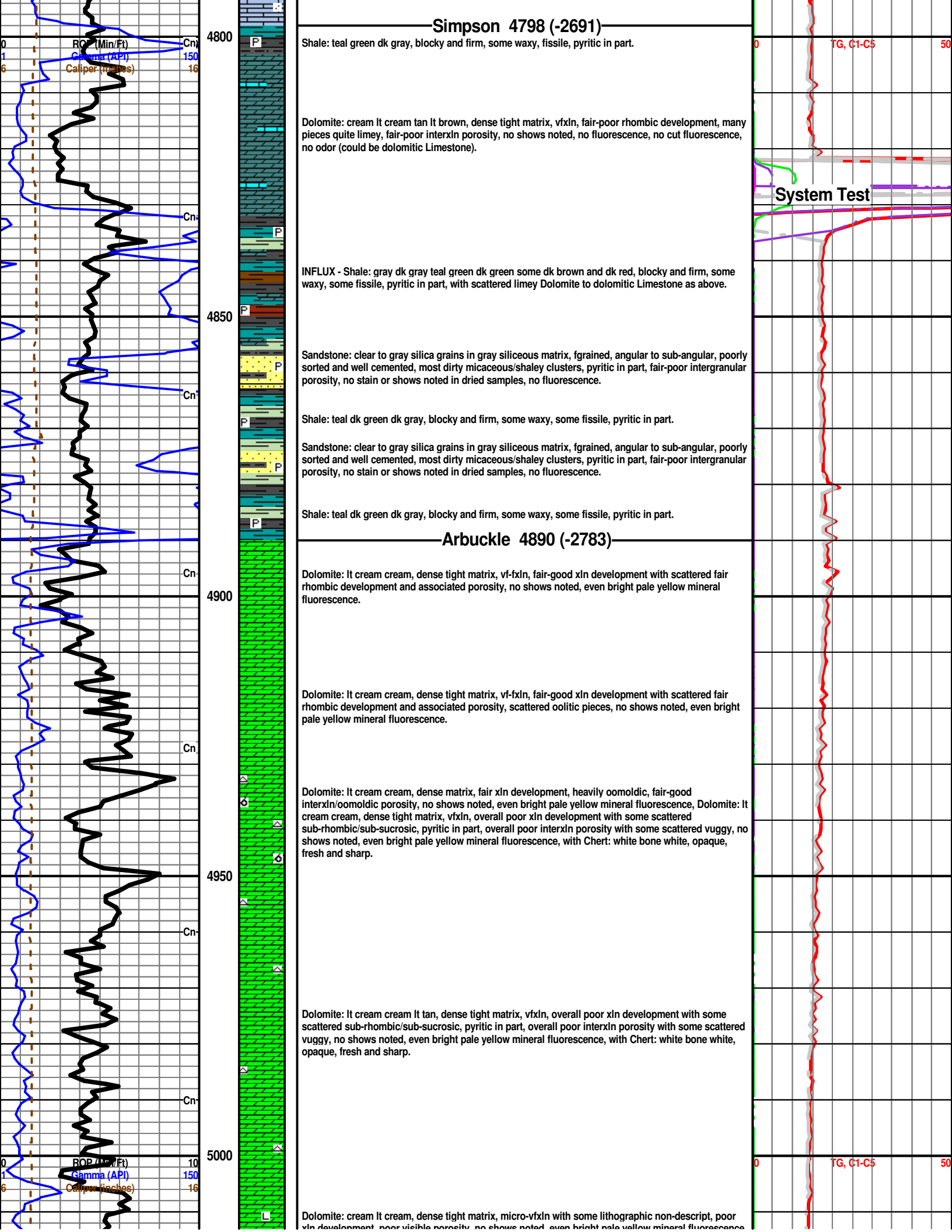
Predominately Chert: white bone white cream, opaque, fresh and sharp, barren, no shows noted, no fluorescence.

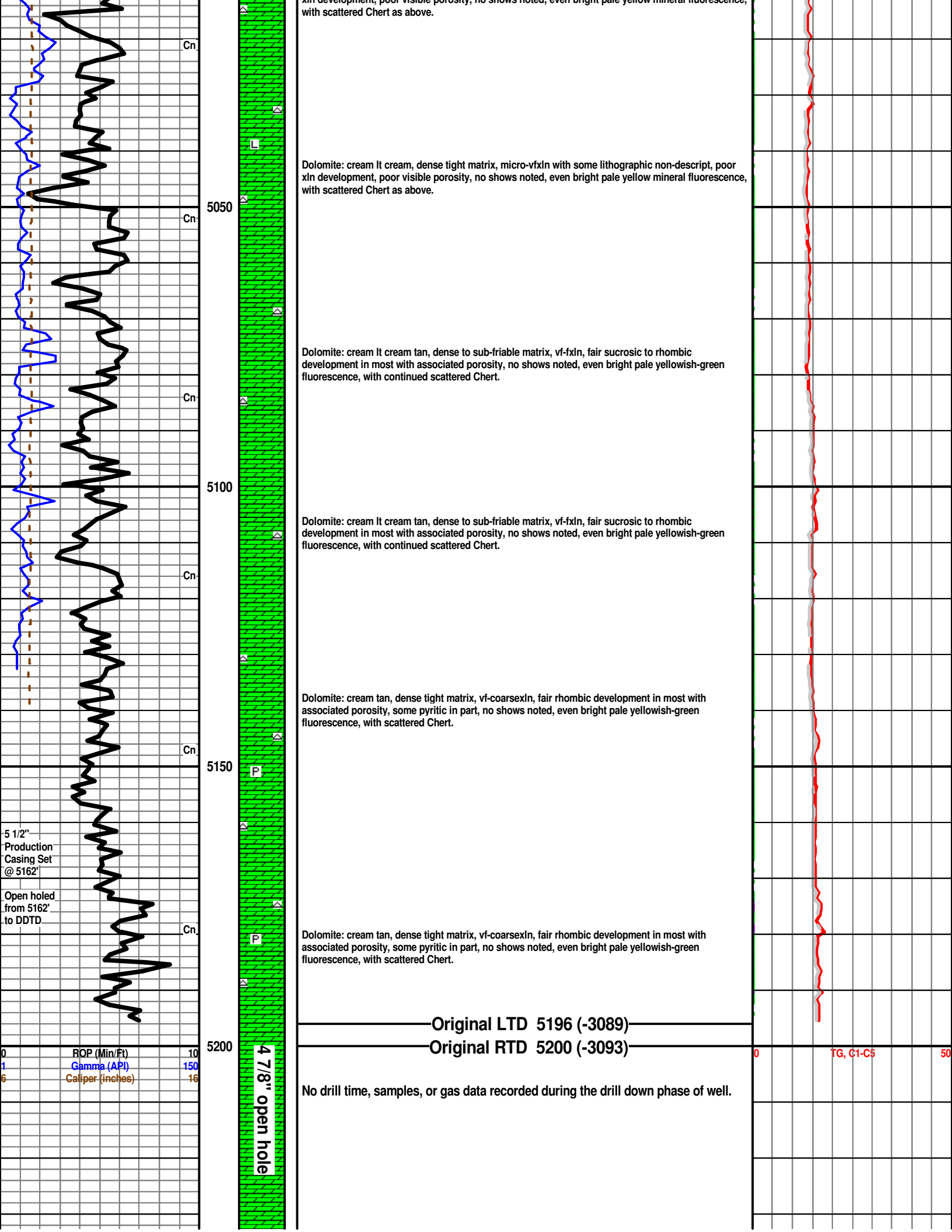
INFLUX - Dolomite: cream lt cream, dense to sub-friable matrix, vf-coarsexln, poor-fair xln development with some good rhombic to sucrosic and associated porosity, some limey, no shows noted, no fluorescence, and scattered Chert: as above.

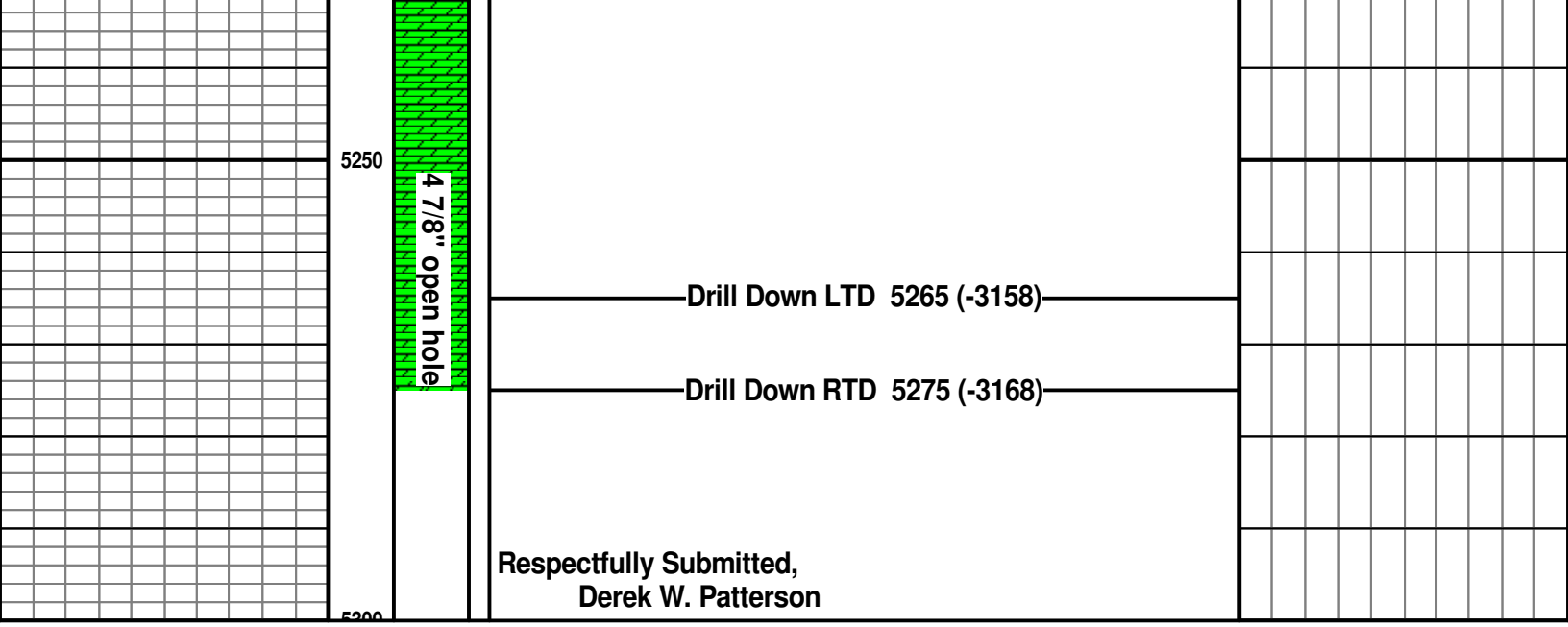
Dolomite: as above, grading to Limestone: cream lt cream lt pink, dense tight matrix, vfxln, dolomitic in part, fair-poor interxln porosity, no shows noted, no fluorescence, no cut fluorescence, no odor, most Chert drops out.

Limestone: as above, grading to Limestone: gray lt gray, sub-friable to dense tight matrix, micro-vfxln, abundant arenaceous material, barren, fair-poor visible porosity, no shows noted, no fluorescence.




ROP (Min/Ft)
Gamma (API)
Caliper (inches)
0
150
16
10
4800
4850
4900
4950
5000
Cn
P
L
TG, C1-C5
50
System Test
Simpson 4798 (-2691)
Shale: teal green dk gray, blocky and firm, some waxy, fissile, pyritic in part.
Dolomite: cream lt cream tan lt brown, dense tight matrix, vfxln, fair-poor rhombic development, many pieces quite limey, fair-poor interxln porosity, no shows noted, no fluorescence, no cut fluorescence, no odor (could be dolomitic Limestone).
INFLUX - Shale: gray dk gray teal green dk green some dk brown and dk red, blocky and firm, some waxy, some fissile, pyritic in part, with scattered limey Dolomite to dolomitic Limestone as above.
Sandstone: clear to gray silica grains in gray siliceous matrix, fgrained, angular to sub-angular, poorly sorted and well cemented, most dirty micaceous/shaley clusters, pyritic in part, fair-poor intergranular porosity, no stain or shows noted in dried samples, no fluorescence.
Shale: teal dk green dk gray, blocky and firm, some waxy, some fissile, pyritic in part.
Sandstone: clear to gray silica grains in gray siliceous matrix, fgrained, angular to sub-angular, poorly sorted and well cemented, most dirty micaceous/shaley clusters, pyritic in part, fair-poor intergranular porosity, no stain or shows noted in dried samples, no fluorescence.
Shale: teal dk green dk gray, blocky and firm, some waxy, some fissile, pyritic in part.
Arbuckle 4890 (-2783)
Dolomite: lt cream cream, dense tight matrix, vf-fxln, fair-good xln development with scattered fair rhombic development and associated porosity, no shows noted, even bright pale yellow mineral fluorescence.
Dolomite: lt cream cream, dense tight matrix, vf-fxln, fair-good xln development with scattered fair rhombic development and associated porosity, scattered oolitic pieces, no shows noted, even bright pale yellow mineral fluorescence.
Dolomite: lt cream cream, dense matrix, fair xln development, heavily oomoldic, fair-good interxln/oomoldic porosity, no shows noted, even bright pale yellow mineral fluorescence, Dolomite: lt cream cream, dense tight matrix, vfxln, overall poor xln development with some scattered sub-rhombic/sub-sucrosic, pyritic in part, overall poor interxln porosity with some scattered vuggy, no shows noted, even bright pale yellow mineral fluorescence, with Chert: white bone white, opaque, fresh and sharp.
Dolomite: lt cream cream lt tan, dense tight matrix, vfxln, overall poor xln development with some scattered sub-rhombic/sub-sucrosic, pyritic in part, overall poor interxln porosity with some scattered vuggy, no shows noted, even bright pale yellow mineral fluorescence, with Chert: white bone white, opaque, fresh and sharp.
Dolomite: cream lt cream, dense tight matrix, micro-vfxln with some lithographic non-descript, poor


Cn
Cn
Cn
Cn
Cn
Cn
5050
5100
5150
5200
L
P
P
5 1/2" Production Casing Set @ 5162'
Open holed from 5162' to DDTD
4 7/8" open hole
0 ROP (Min/Ft) 10
1 Gamma (API) 150
6 Caliper (inches) 16
0 TG, C1-C5 50
Dolomite: cream lt cream, dense tight matrix, micro-vfxln with some lithographic non-descript, poor xln development, poor visible porosity, no shows noted, even bright pale yellow mineral fluorescence, with scattered Chert as above.
Dolomite: cream lt cream, dense tight matrix, micro-vfxln with some lithographic non-descript, poor xln development, poor visible porosity, no shows noted, even bright pale yellow mineral fluorescence, with scattered Chert as above.
Dolomite: cream lt cream tan, dense to sub-friable matrix, vf-fxln, fair sucrosic to rhombic development in most with associated porosity, no shows noted, even bright pale yellowish-green fluorescence, with continued scattered Chert.
Dolomite: cream lt cream tan, dense to sub-friable matrix, vf-fxln, fair sucrosic to rhombic development in most with associated porosity, no shows noted, even bright pale yellowish-green fluorescence, with continued scattered Chert.
Dolomite: cream tan, dense tight matrix, vf-coarsexln, fair rhombic development in most with associated porosity, some pyritic in part, no shows noted, even bright pale yellowish-green fluorescence, with scattered Chert.
Dolomite: cream tan, dense tight matrix, vf-coarsexln, fair rhombic development in most with associated porosity, some pyritic in part, no shows noted, even bright pale yellowish-green fluorescence, with scattered Chert.
Original LTD 5196 (-3089)
Original RTD 5200 (-3093)
No drill time, samples, or gas data recorded during the drill down phase of well.


5250
4 7/8" open hole
Drill Down LTD 5265 (-3158)
Drill Down RTD 5275 (-3168)
Respectfully Submitted,
Derek W. Patterson

LOG-TECH of Kansas Inc.
GREAT BEND, KANSAS

CEMENT BOND LOG

Company LASSO ENERGY, LLC
Well WOOD #2 SWD
Field WILDCAT
County EDWARDS
State KANSAS

Company LASSO ENERGY, LLC
Well WOOD #2 SWD
Field WILDCAT
County EDWARDS State KANSAS

Location
SE-SE-SE
330'FSL & 330' FEL
SEC. 30 TWP. 26S RGE. 16W

Permanent Datum GROUND LEVEL Elevation 2095
Log Measured From KELLY BUSHING 12' AGL
Drilling Measured From KELLY BUSHING

Other Services

Elevation
K.B. 2107
D.F.
G.L. 2095

Date	01-28-2013
Run Number	ONE
Depth Driller	5200
Depth Logger	5265
Bottom Logged Interval	5264
Top Log Interval	2850
Open Hole Size	
Type Fluid	WATER
Density / Viscosity	
Max. Recorded Temp.	
Estimated Cement Top	3195
Time Well Ready	
Time Logger on Bottom	
Equipment Number	52
Location	GREAT BEND
Recorded By	LEE BRETZ
Witnessed By	MR. BRUCE KELSO

Borehole Record

Run Number	Bit	From	To

Tubing Record

Size	Weight	From	To

Casing Record

	Size	Wgt/Ft	Top	Bottom
Surface String	8.625		0	506
Prot. String				
Production String	5.5		0	5169.5
Liner				

<<< Fold Here >>>

Comments

THANK YOU FOR USING LOG TECH OF KANSAS!
(620)792-2167

DIRECTIONS

BELPRE,KS
SOUTH TO COUNTY RD 36
1/2 MILE WEST TO COUNTY RD 53
5 MILES SOUTH WEST AND NORTH INTO

CORRECTED -12.3' TO OPENHOLE LOG

LOG-TECH of Kansas Inc.
GREAT BEND, KANSAS

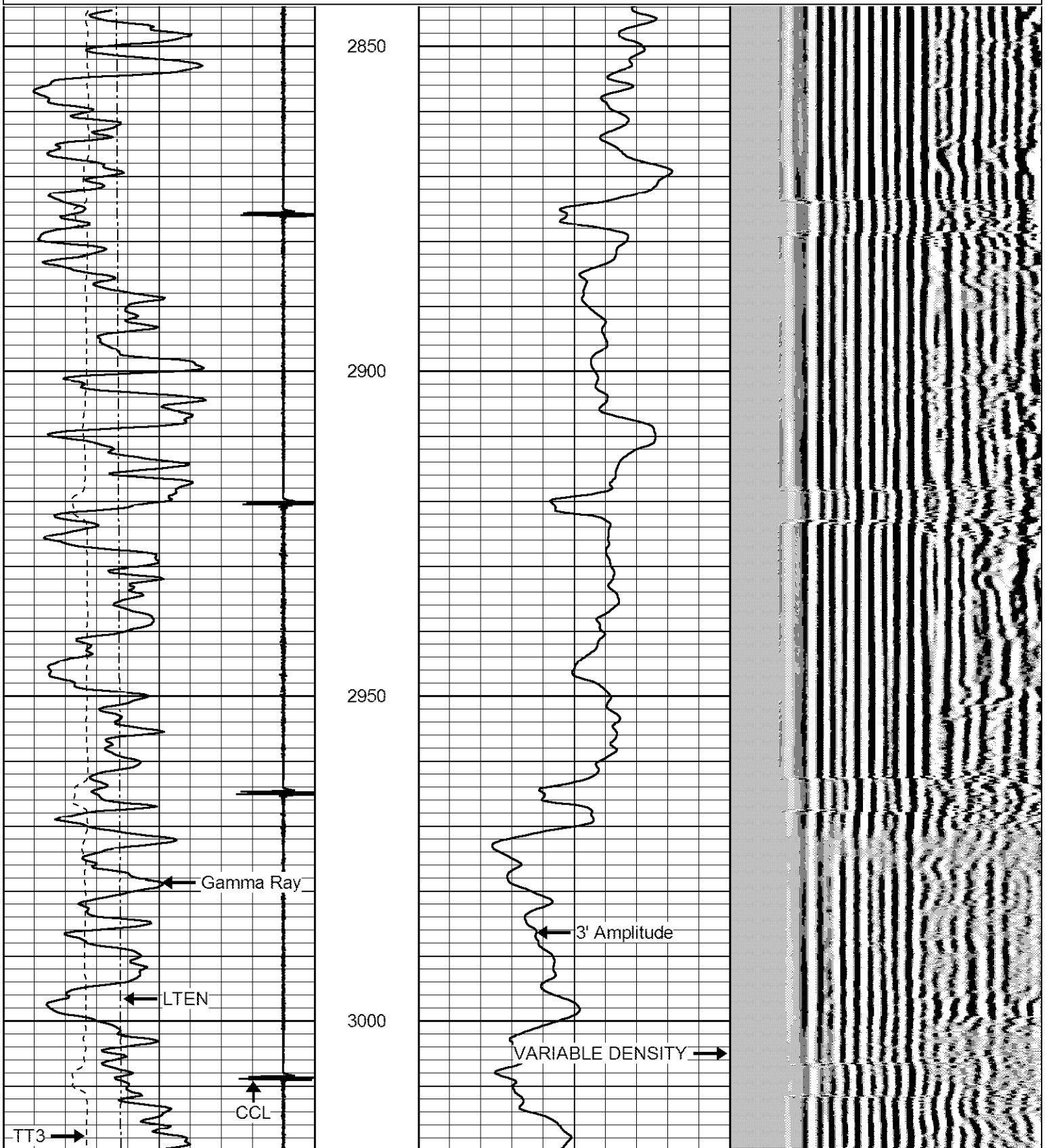
MAIN PASS

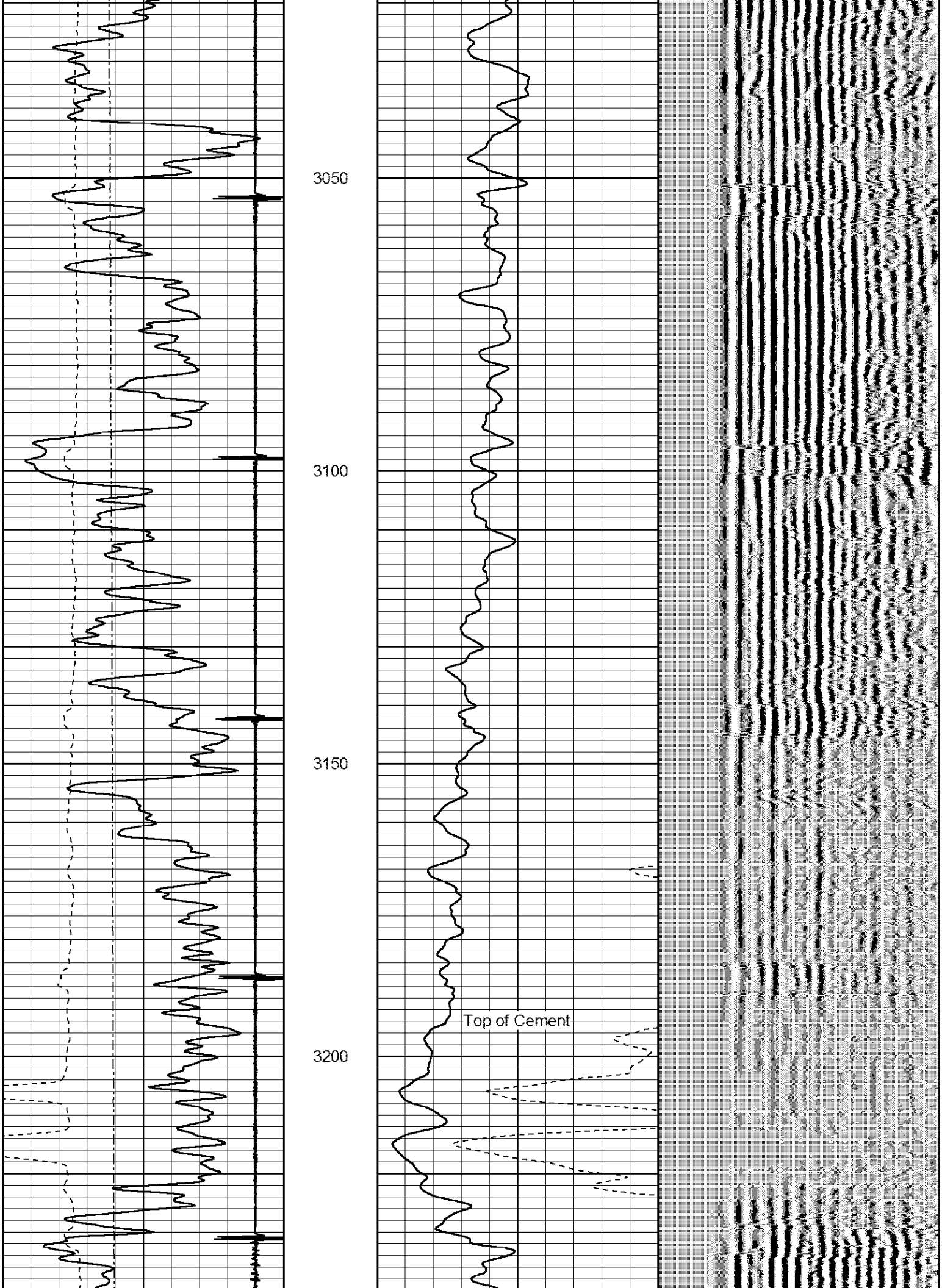
Database File:	wood2swd.db
Dataset Pathname:	pass4
Presentation Format:	cbl02
Dataset Creation:	Mon Jan 28 17:19:04 2013 by Log Std Casedhole 07122
Charted by:	Depth in Feet scaled 1:240

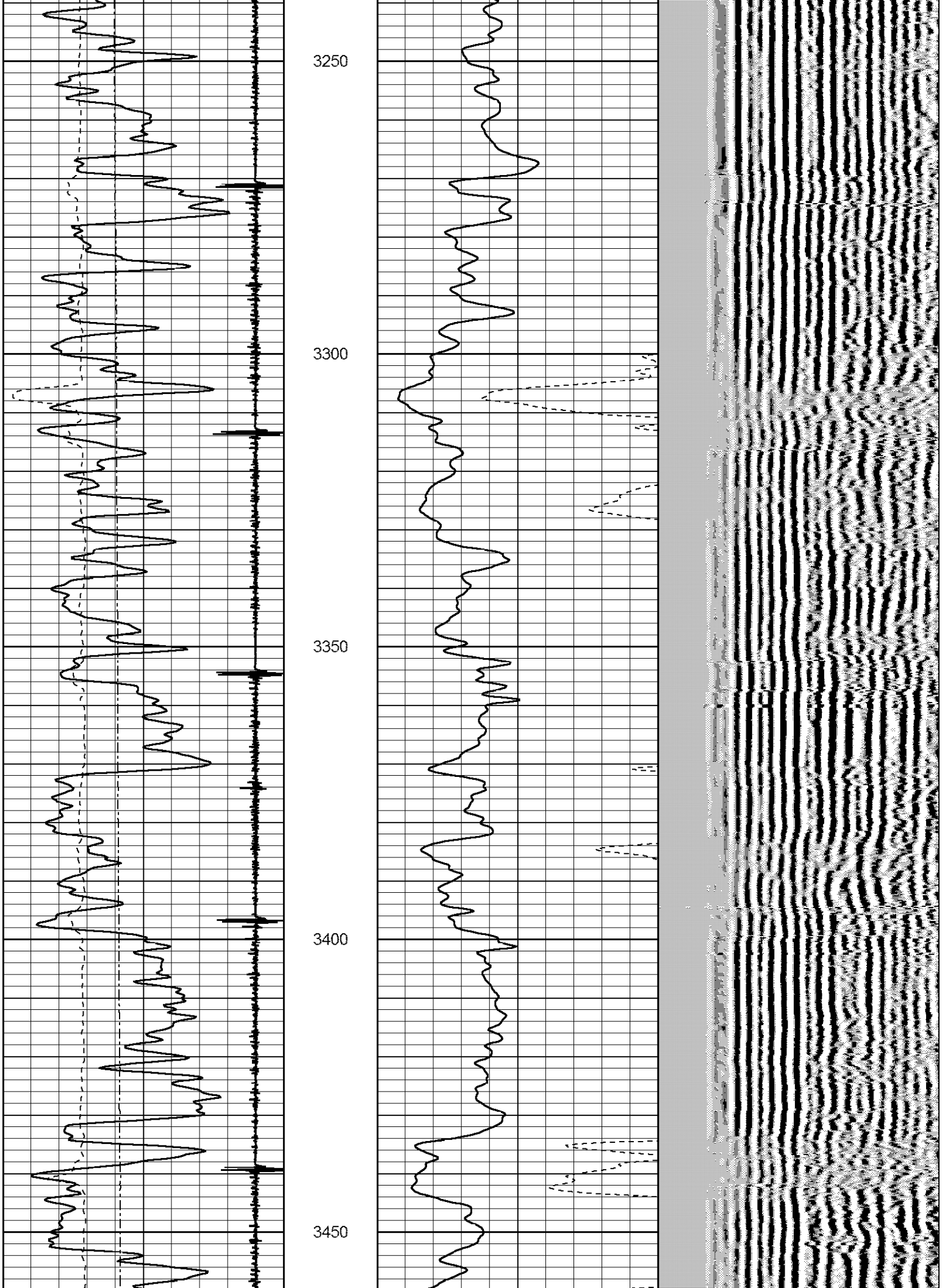
9	Collar Locator	-1
0	Gamma Ray (GAPI)	150
320	TT3 (usec)	120
0	LTEN (lb)	2000

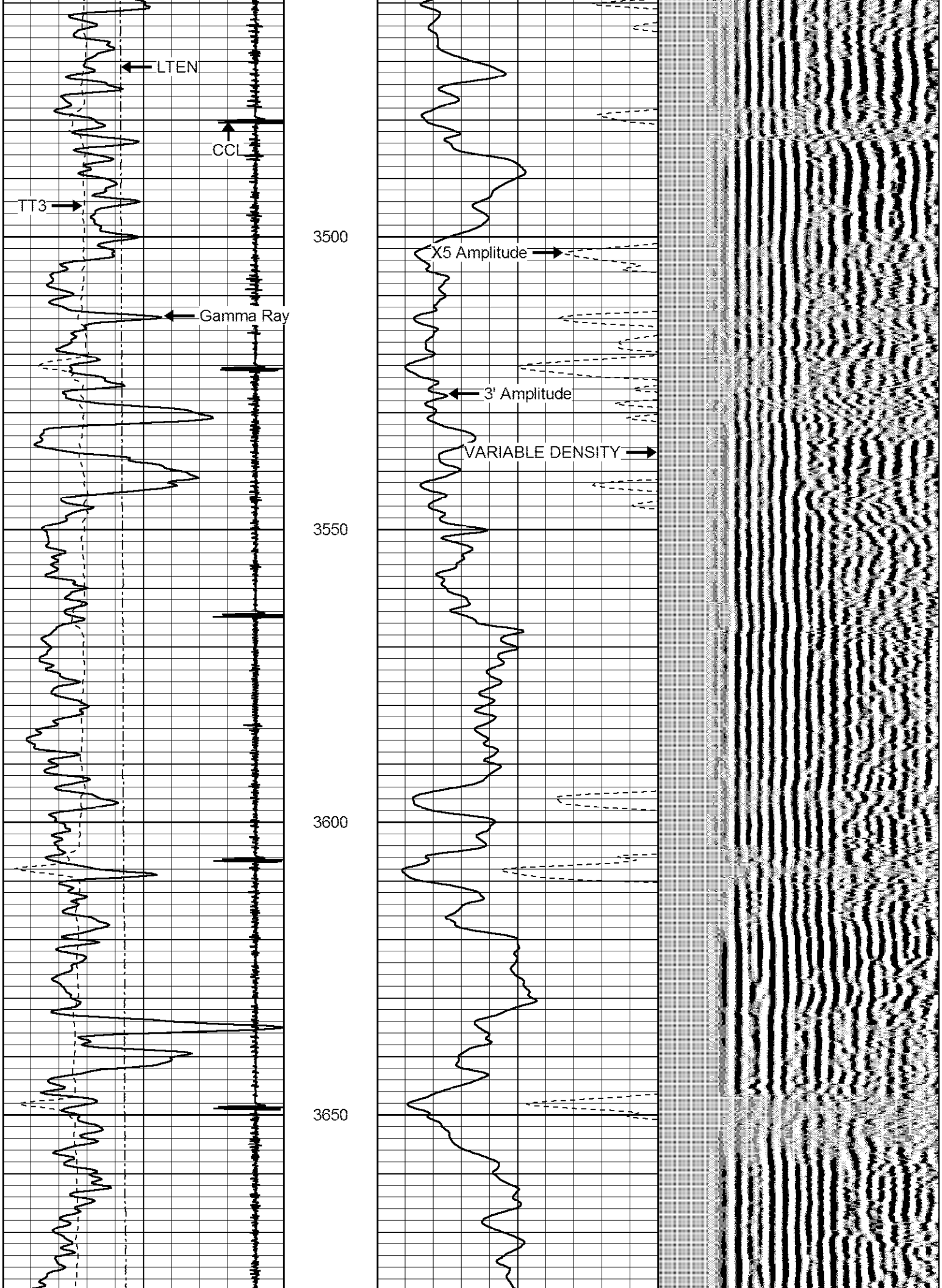
0	Amplitude (mV)	100
0	X5 Amplitude (mV)	20

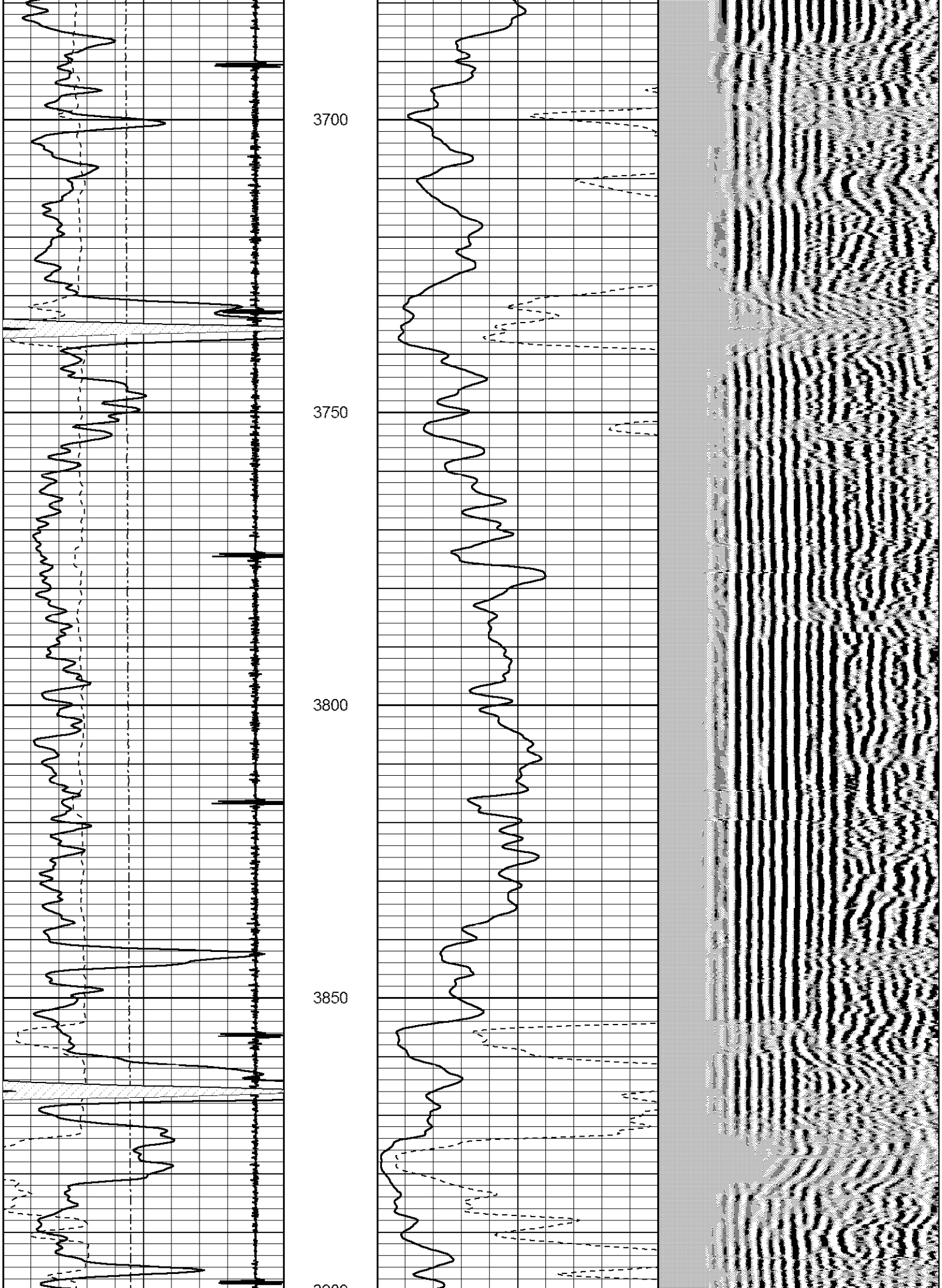
200	VARIABLE DENSITY	1200

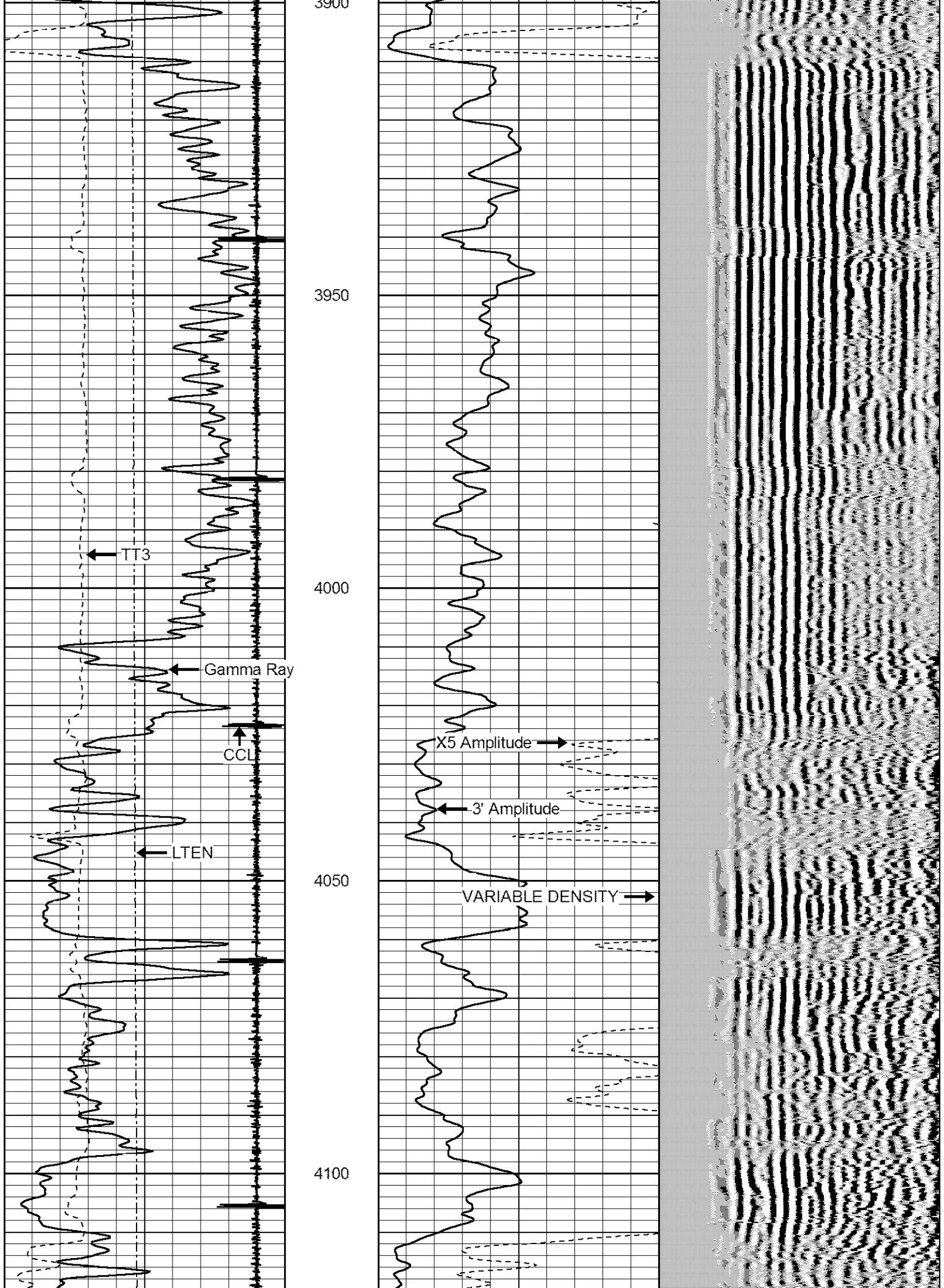


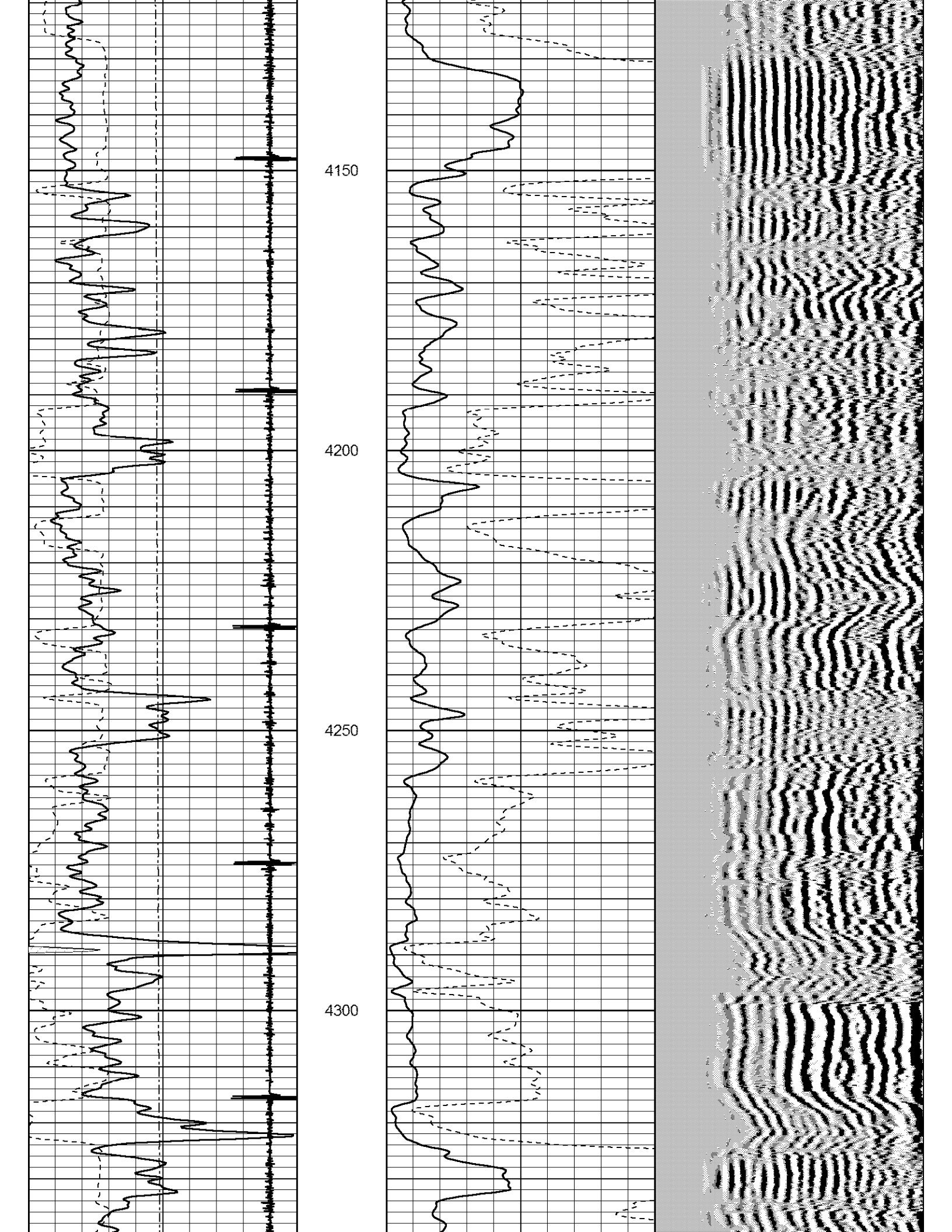

3050
3100
3150
3200
Top of Cement

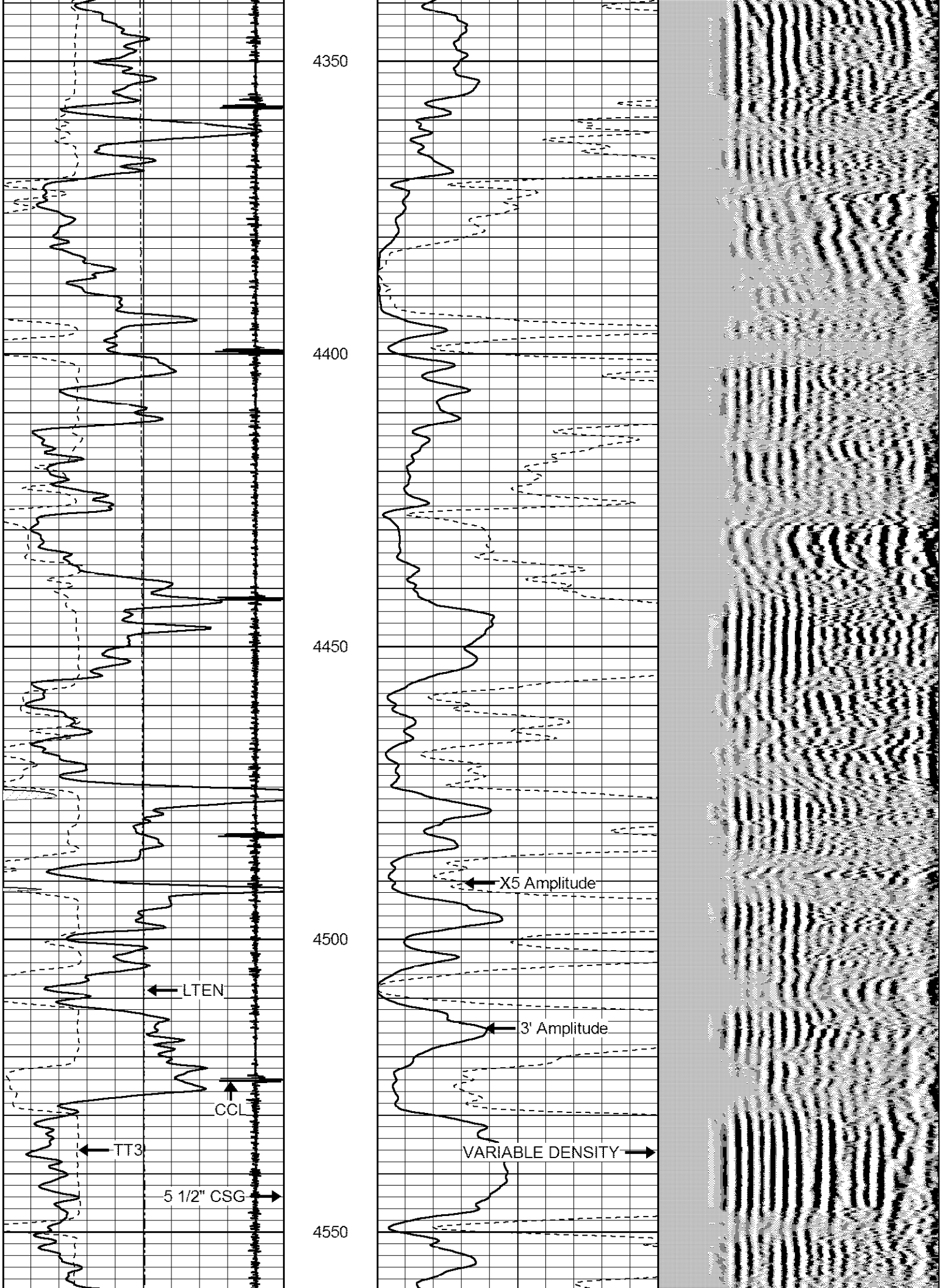

3250
3300
3350
3400
3450

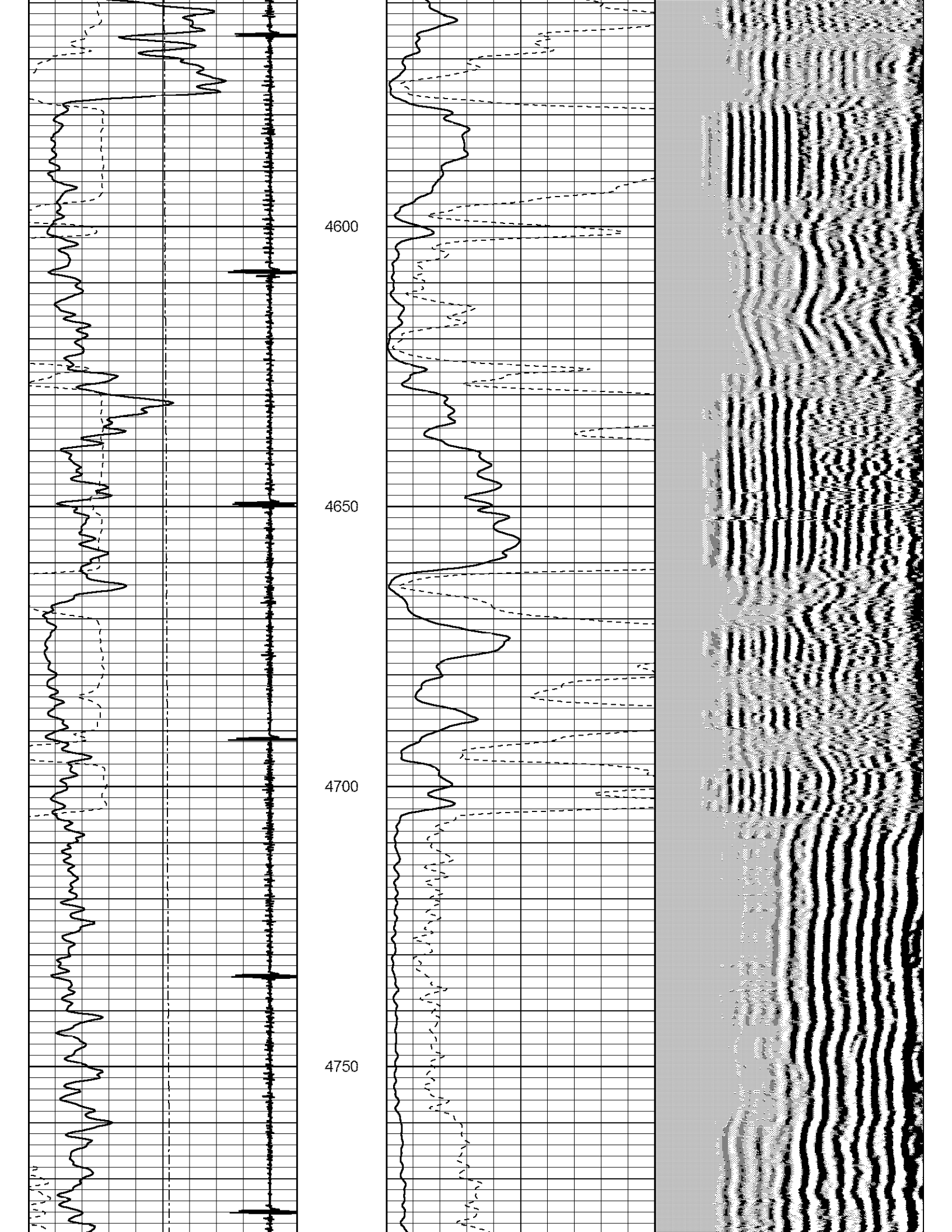

LTEN
CCL
TT3
3500
X5 Amplitude
Gamma Ray
3' Amplitude
VARIABLE DENSITY
3550
3600
3650

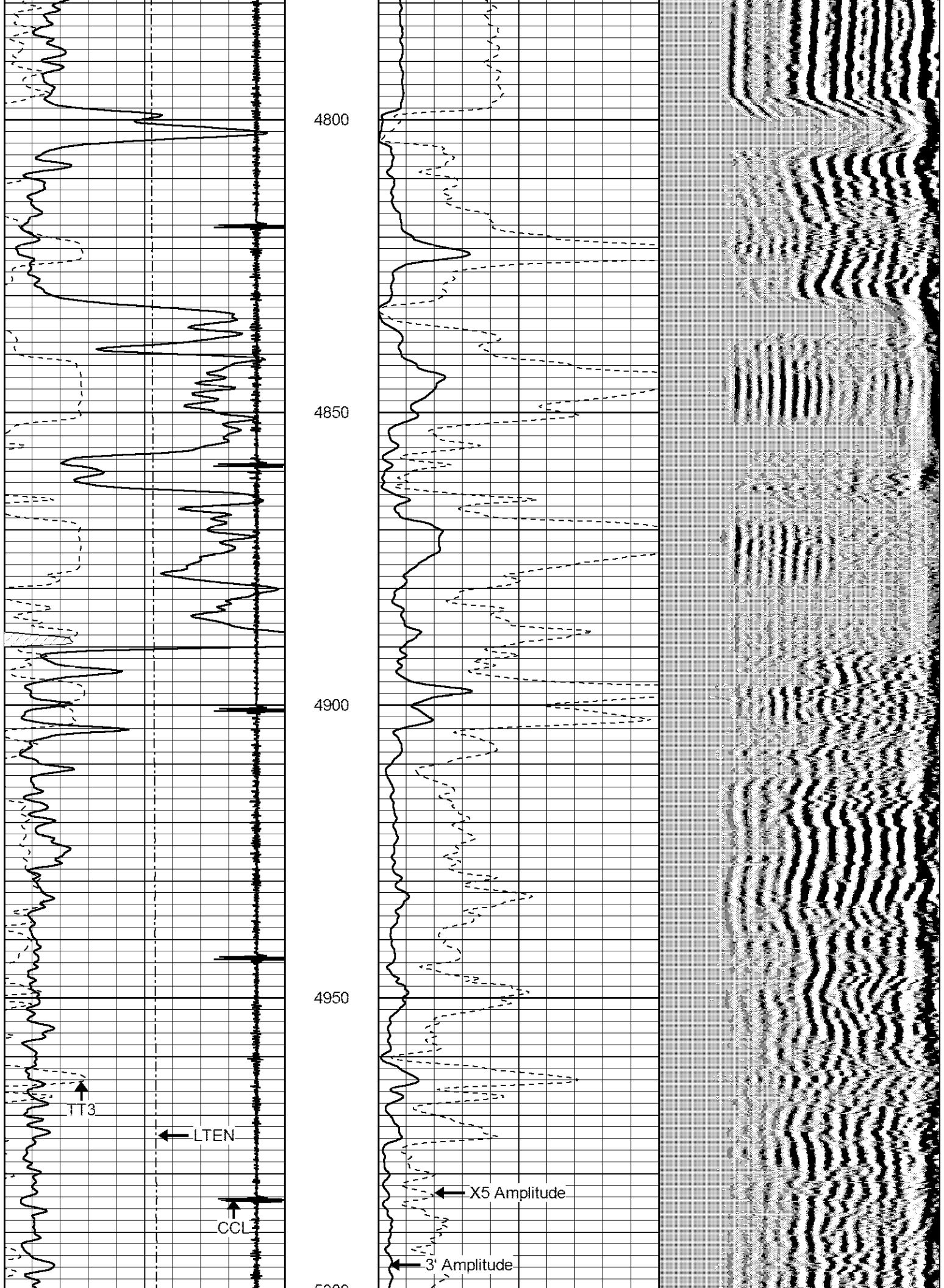

3700
3750
3800
3850

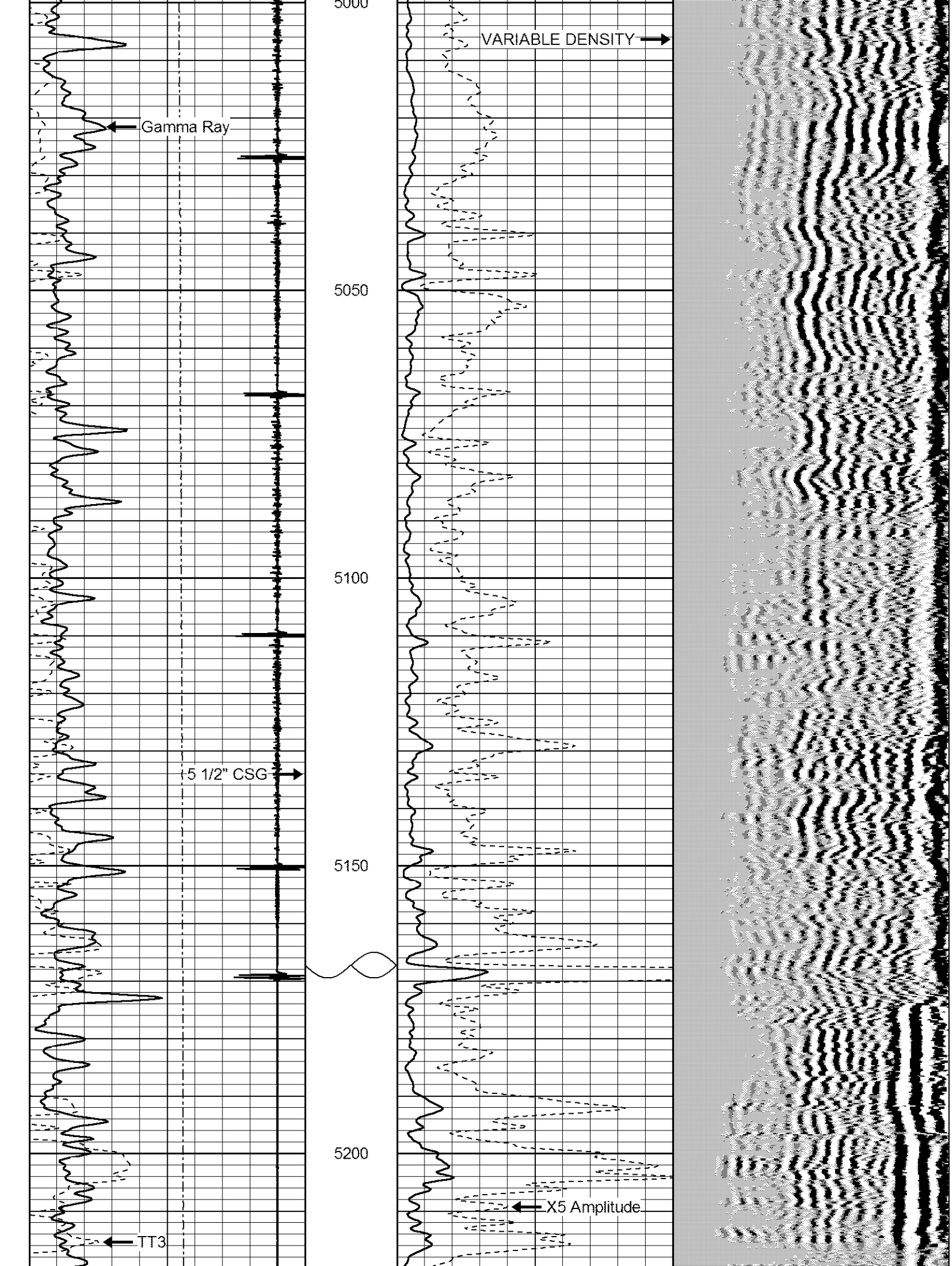

3900
3950
4000
4050
4100
TT3
Gamma Ray
CCL
LTEN
X5 Amplitude
3' Amplitude
VARIABLE DENSITY

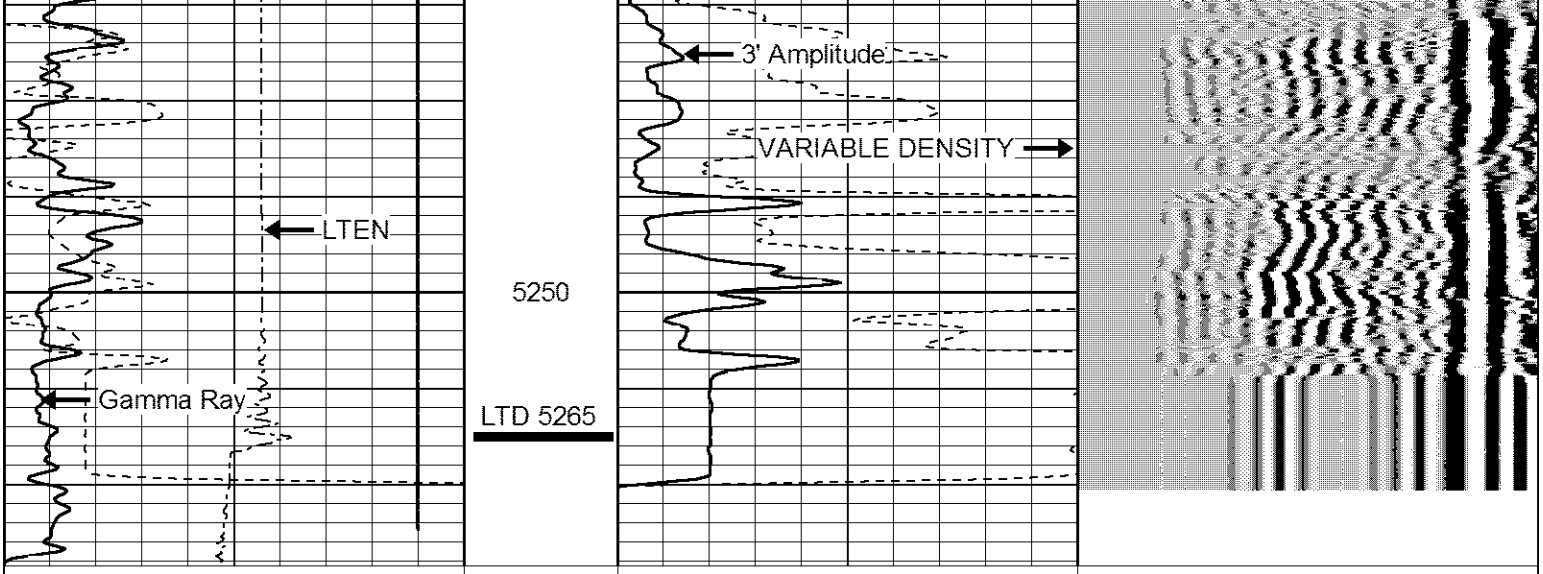

4150
4200
4250
4300


4350
4400
4450
4500
4550
LTEN
CCL
TT3
5 1/2" CSG
X5 Amplitude
3' Amplitude
VARIABLE DENSITY


4600
4650
4700
4750


4800
4850
4900
4950
TT3
LTEN
CCL
X5 Amplitude
3' Amplitude


5000
VARIABLE DENSITY
Gamma Ray
5050
5100
5 1/2" CSG
5150
5200
X5 Amplitude
TT3



9	Collar Locator	-1
0	Gamma Ray (GAPI)	150
320	TT3 (usec)	120
0	LTEN (lb)	2000

0	Amplitude (mV)	100	200 VARIABLE DENSITY	1200
0	X5 Amplitude (mV)	20		

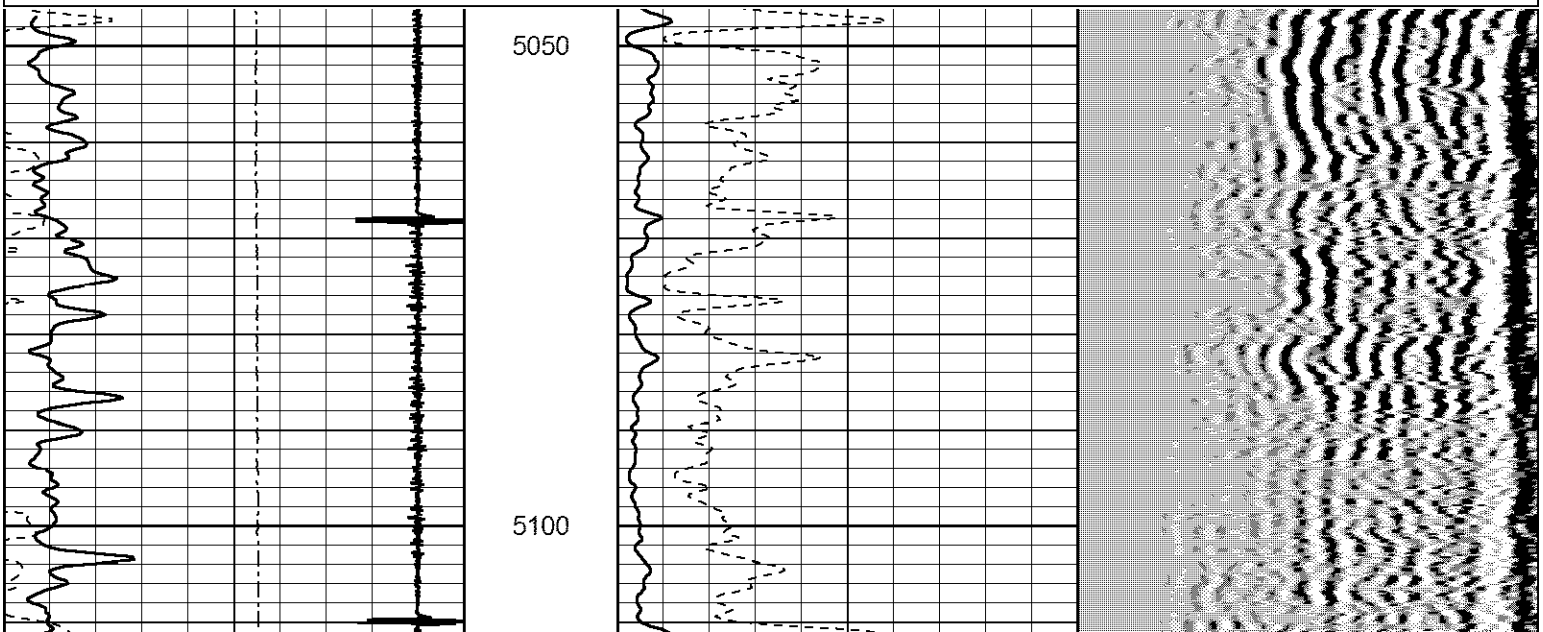
LOG-TECH of Kansas Inc.
GREAT BEND, KANSAS

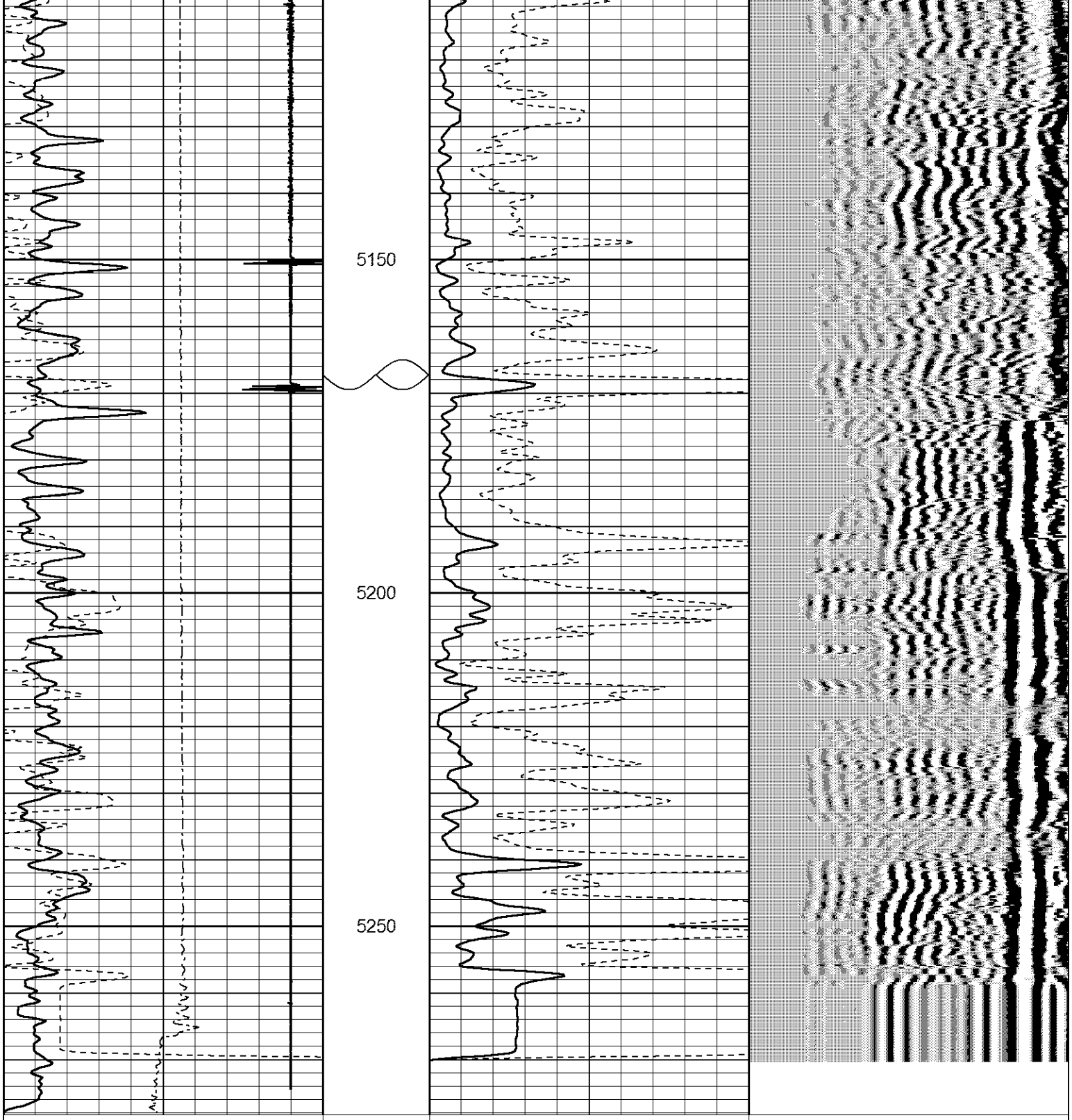
REPEAT SECTION

Database File: wood2swd.db
Dataset Pathname: pass3
Presentation Format: cbl02
Dataset Creation: Mon Jan 28 17:11:32 2013 by Log Std Casedhole 07122
Charted by: Depth in Feet scaled 1:240

9	Collar Locator	-1
0	Gamma Ray (GAPI)	150
320	TT3 (usec)	120
0	LTEN (lb)	2000

0	Amplitude (mV)	100	200 VARIABLE DENSITY	1200
0	X5 Amplitude (mV)	20		



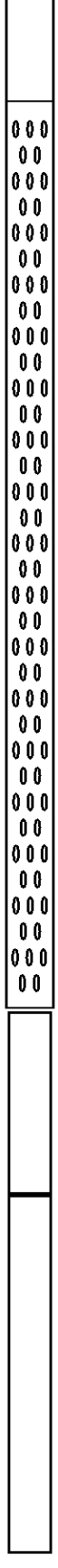


9	Collar Locator	-1
0	Gamma Ray (GAPI)	150
320	TT3 (usec)	120
0	LTEN (lb)	2000

0	Amplitude (mV)	100
0	X5 Amplitude (mV)	20

200	VARIABLE DENSITY	1200

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			STNDRD Standard Cable Head	1.00	1.69	10.00



WVF3	8.76		CBL-probecbl (probecbl1) probe cbl	8.75	2.75	92.00
WVF5	7.76					
CCL	3.69		CCL-probe (cclpr) probe ccl	1.55	2.75	30.00
			GR-probegr (progr1) probe gamma ray	3.02	2.75	20.00
GR	0.90					

Dataset:	wood2swd.db: field/well/run1/pass4
Total Length:	14.32 ft
Total Weight:	152.00 lb
O.D.	2.75 in

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802

Kansas
Corporation Commission

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

February 01, 2013

Bruce Kelso
Lasso Energy LLC
PO Box 465
1125 South Main
Chase, KS 67524

Re: ACO1
API 15-047-21615-00-00
WOOD 2
SE/4 Sec.30-26S-16W
Edwards County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years. We also are requesting the same confidentiality for the well samples we submitted.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Bruce Kelso