

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

Cathodic Other (Core, Expl., etc.): _____

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

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

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

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

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

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

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</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:	
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Form	ACO1 - Well Completion
Operator	Bear Petroleum, LLC
Well Name	RYAN 1
Doc ID	1410645

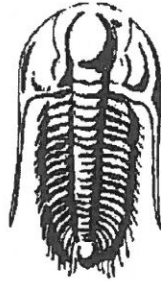
All Electric Logs Run

Cement Bond Log
Compensated Density/Neutron Log
Sonic Log
Micro Log
Dual Induction Log
Lithology Strip/Geologist Report

Form	ACO1 - Well Completion
Operator	Bear Petroleum, LLC
Well Name	RYAN 1
Doc ID	1410645

Tops

Name	Top	Datum
Anhydrite	2200	-1
Herington/Krider	2278	-79
Winfield	2338	-139
Towanda	2402	-203
Ft Riley	2460	-261
Topeka	3596	-1397
Heebner	3716	-1517
Lansing	3788	-1589
Base Kansas City	4196	-1997
Mississippi	4336	-2137
Viola	4450	-2251



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Bear Petroleum, LLC**

PO Box 438
Haysville, KS 67060

ATTN: Rod Andersen

Ryan #1

15-22S-20W Pawnee,KS

Start Date: 2018.03.01 @ 10:44:50

End Date: 2018.03.01 @ 18:08:56

Job Ticket #: 63410 DST #: 1

Trilobite Testing, Inc

1515 Commerce Parkway Hays, KS 67601

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

Printed: 2018.03.02 @ 08:16:02



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Bear Petroleum, LLC

15-22S-20W Pawnee, KS

PO Box 438
Haysville, KS 67060

Ryan #1

Job Ticket: 63410

DST#: 1

ATTN: Rod Andersen

Test Start: 2018.03.01 @ 10:44:50

GENERAL INFORMATION:

Formation: **Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:36:26

Time Test Ended: 18:08:56

Test Type: Conventional Bottom Hole (Initial)

Tester: Brannan Lonsdale

Unit No: 73

Interval: 4316.00 ft (KB) To 4348.00 ft (KB) (TVD)

Reference Elevations: 2197.00 ft (KB)

Total Depth: 4348.00 ft (KB) (TVD)

2192.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8524 Outside

Press@RunDepth: 40.19 psig @ 4345.00 ft (KB)

Start Date: 2018.03.01

End Date:

2018.03.01

Start Time: 10:44:51

End Time:

18:08:56

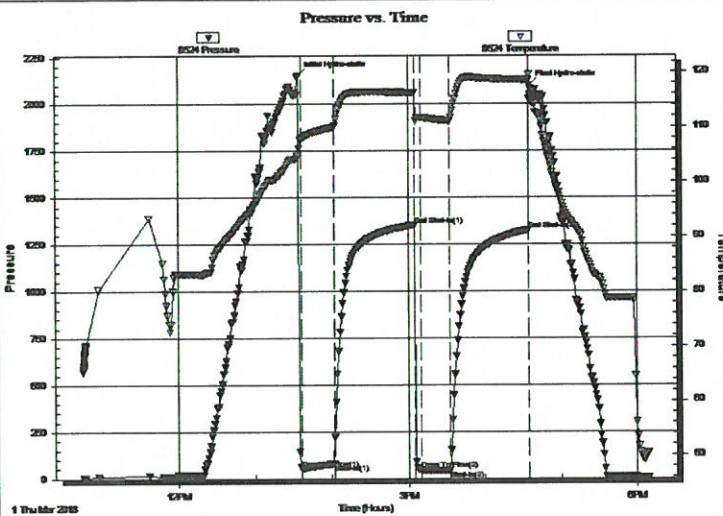
Capacity: 8000.00 psig

Last Calib.: 2018.03.01

Time On Btm: 2018.03.01 @ 13:34:11

Time Off Btm: 2018.03.01 @ 16:35:11

TEST COMMENT: 30- IF- BOB 10 secs
60- IS- Very weak surface blow GTS in 4 min
30- FF- BOB instantly
60- FS- No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2153.06	104.70	Initial Hydro-static
3	54.31	107.79	Open To Flow (1)
28	78.13	109.97	Shut-In(1)
91	1353.72	116.27	End Shut-In(1)
96	45.30	111.68	Open To Flow (2)
119	40.19	111.06	Shut-In(2)
181	1327.07	118.52	End Shut-In(2)
181	2099.58	115.87	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	M	0.43
0.00	GTS 34 mins (TSTM)	0.00

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Bear Petroleum, LLC

15-22S-20W Pawnee, KS

PO Box 438
Haysville, KS 67060

Ryan #1

Job Ticket: 63410

DST#: 1

ATTN: Rod Andersen

Test Start: 2018.03.01 @ 10:44:50

GENERAL INFORMATION:

Formation: **Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:36:26

Time Test Ended: 18:08:56

Interval: **4316.00 ft (KB) To 4348.00 ft (KB) (TVD)**

Total Depth: 4348.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)

Tester: Brannan Lonsdale

Unit No: 73

Reference Elevations: 2197.00 ft (KB)

2192.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6771 Inside

Press@RunDepth: psig @ 4345.00 ft (KB)

Start Date: 2018.03.01 End Date: 2018.03.01

Start Time: 10:44:59 End Time: 18:08:49

Capacity: 8000.00 psig

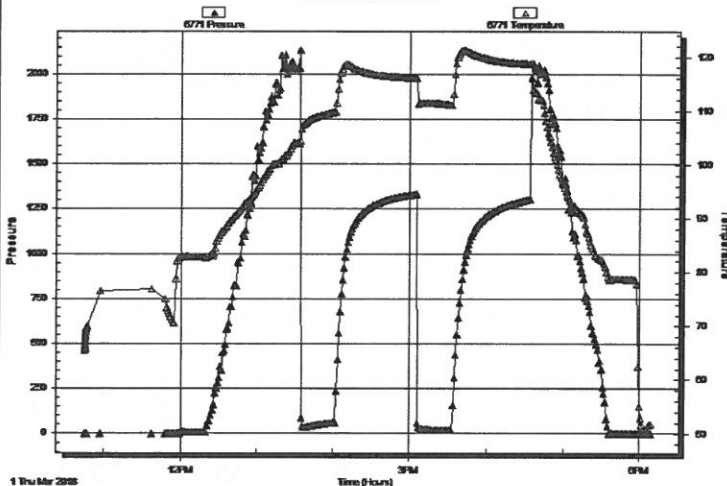
Last Calib.: 2018.03.01

Time On Btm:

Time Off Btm:

TEST COMMENT: 30- IF- BOB 10 secs
60- IS- Very weak surface blow GTS in 4 min
30- FF- BOB instantly
60- FS- No blow

Pressure vs. Time



PRESSURE SUMMARY

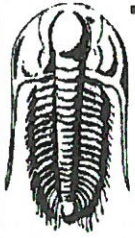
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
30.00	M	0.43
0.00	GTS 34 mins (TSTM)	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Bear Petroleum, LLC

15-22S-20W Pawnee, KS

PO Box 438
Haysville, KS 67060

Ryan #1

Job Ticket: 63410

DST#: 1

ATTN: Rod Andersen

Test Start: 2018.03.01 @ 10:44:50

Tool Information

Drill Pipe:	Length: 4306.00 ft	Diameter: 3.82 inches	Volume: 61.04 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 72000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 71000.00 lb
Depth to Top Packer:	4316.00 ft			Final 71000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	60.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4289.00	
Shut In Tool	5.00			4294.00	
Hydraulic tool	5.00			4299.00	
Jars	5.00			4304.00	
Safety Joint	3.00			4307.00	
Packer	5.00			4312.00	28.00 Bottom Of Top Packer
Packer	4.00			4316.00	
Stubb	1.00			4317.00	
Perforations	28.00			4345.00	
Recorder	0.00	6771	Inside	4345.00	
Recorder	0.00	8524	Outside	4345.00	
Bullnose	3.00			4348.00	32.00 Bottom Packers & Anchor

Total Tool Length: 60.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Bear Petroleum, LLC

15-22S-20W Pawnee, KS

PO Box 438
Haysville, KS 67060

Ryan #1

Job Ticket: 63410

DST#: 1

ATTN: Rod Andersen

Test Start: 2018.03.01 @ 10:44:50

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 56.00 sec/qt
Water Loss: 7.99 in³
Resistivity: ohm.m
Salinity: 2500.00 ppm
Filter Cake: inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	M	0.425
0.00	GTS 34 mins (TSTM)	0.000

Total Length: 30.00 ft Total Volume: 0.425 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

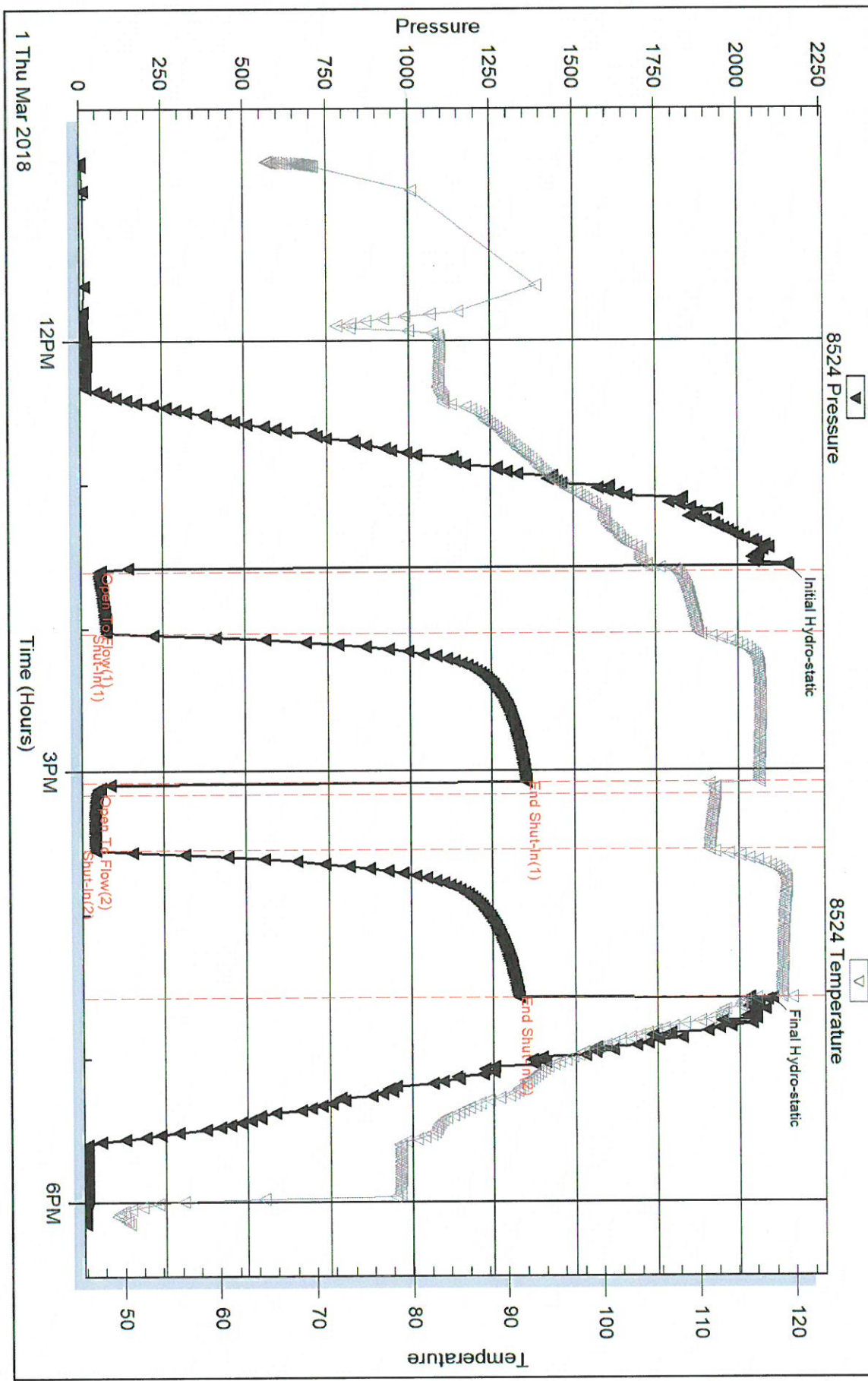
Serial #: 8524

Outside Bear Petroleum, LLC

Ryan #1

DST Test Number: 1

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 63410

Printed: 2018.03.02 @ 08:16:03

Serial #: 6771

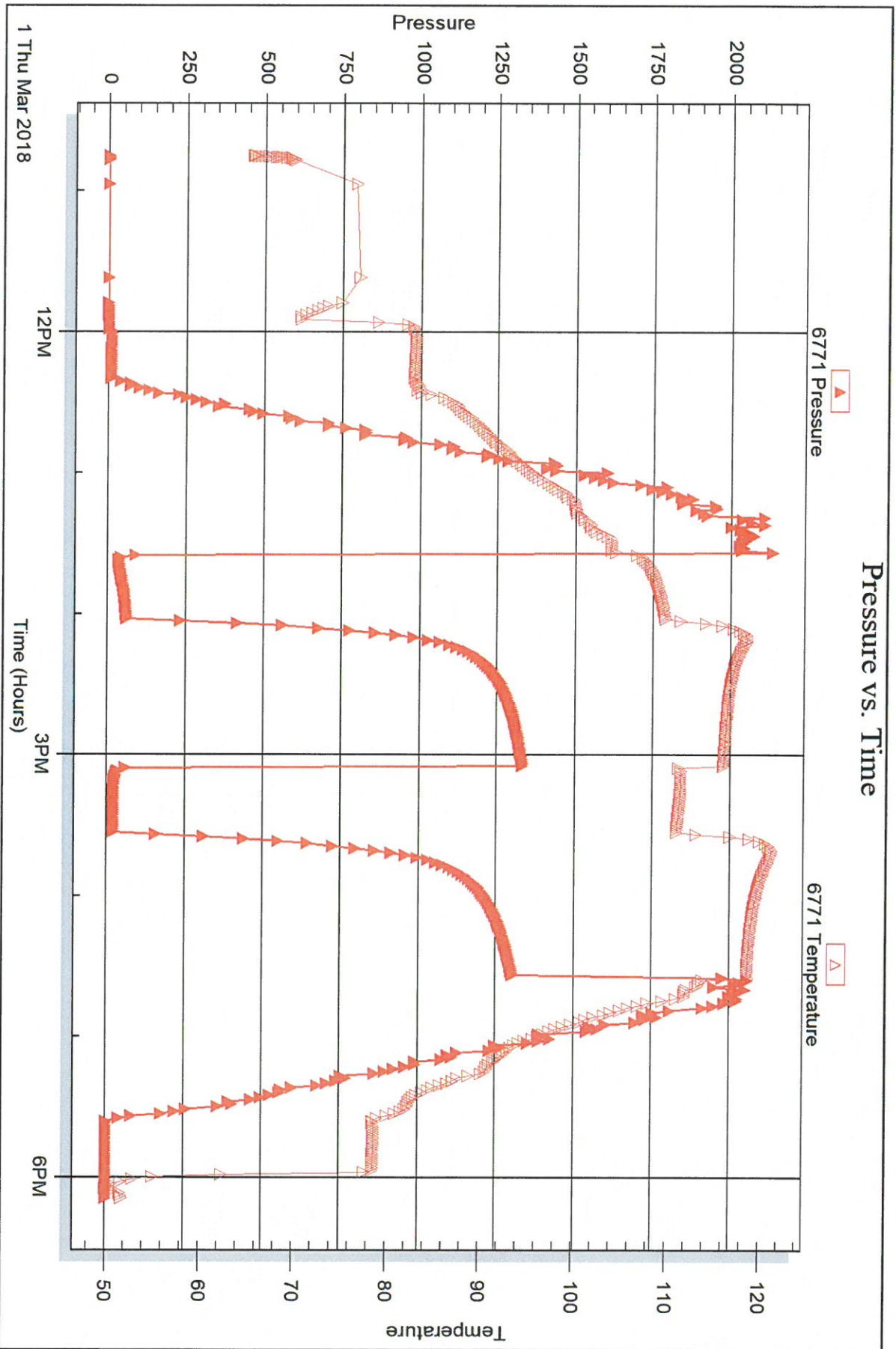
Inside

Bear Petroleum, LLC

Ryan #1

DST Test Number: 1

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Bear Petroleum, LLC**

PO Box 438
Haysville, KS 67060

ATTN: Rod Andersen

Ryan #1

15-22S-20W Pawnee,KS

Start Date: 2018.03.01 @ 23:46:57

End Date: 2018.03.02 @ 06:16:18

Job Ticket #: 63411 DST #: 2

Trilobite Testing, Inc

1515 Commerce Parkway Hays, KS 67601

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

Printed: 2018.03.02 @ 10:17:38



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Bear Petroleum, LLC

15-22S-20W Pawnee, KS

PO Box 438
Haysville, KS 67060

Ryan #1

Job Ticket: 63411

DST#: 2

ATTN: Rod Andersen

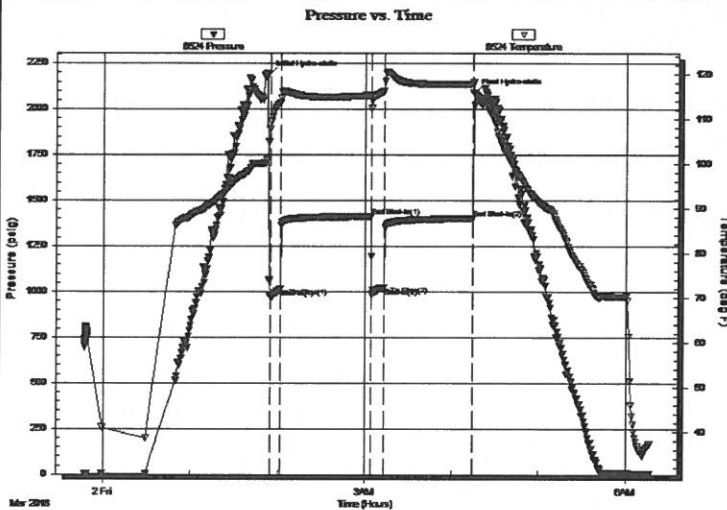
Test Start: 2018.03.01 @ 23:46:57

GENERAL INFORMATION:

Formation: **Miss**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 01:54:33
 Time Test Ended: 06:16:18
 Interval: **4351.00 ft (KB) To 4378.00 ft (KB) (TVD)**
 Total Depth: 4378.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brannan Lonsdale
 Unit No: 73
 Reference Elevations: 2197.00 ft (KB)
 2192.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8524 **Outside**
 Press@RunDepth: 1021.60 psig @ 4375.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.03.01 End Date: 2018.03.02 Last Calib.: 2018.03.02
 Start Time: 23:46:58 End Time: 06:16:18 Time On Btm: 2018.03.02 @ 01:53:18
 Time Off Btm: 2018.03.02 @ 04:14:48

TEST COMMENT: 10- IF- BOB 10 secs. GTS 2 mins
 60- IS- No blow
 10- FF- BOB instantly
 60- FS- No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2187.97	101.34	Initial Hydro-static
2	973.08	107.78	Open To Flow (1)
8	1014.88	113.61	Shut-In(1)
71	1412.45	115.31	End Shut-In(1)
72	985.88	112.53	Open To Flow (2)
80	1021.60	116.26	Shut-In(2)
141	1402.85	117.82	End Shut-In(2)
142	2089.04	118.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	GSMCO, 10%G 5%M 85%O	0.28
0.00	GTS	0.00

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	1.00	140.00	4438.82
Last Gas Rate	1.00	155.00	4870.05



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Bear Petroleum, LLC

15-22S-20W Pawnee, KS

PO Box 438
Haysville, KS 67060

Ryan #1

Job Ticket: 63411

DST#: 2

ATTN: Rod Andersen

Test Start: 2018.03.01 @ 23:46:57

GENERAL INFORMATION:

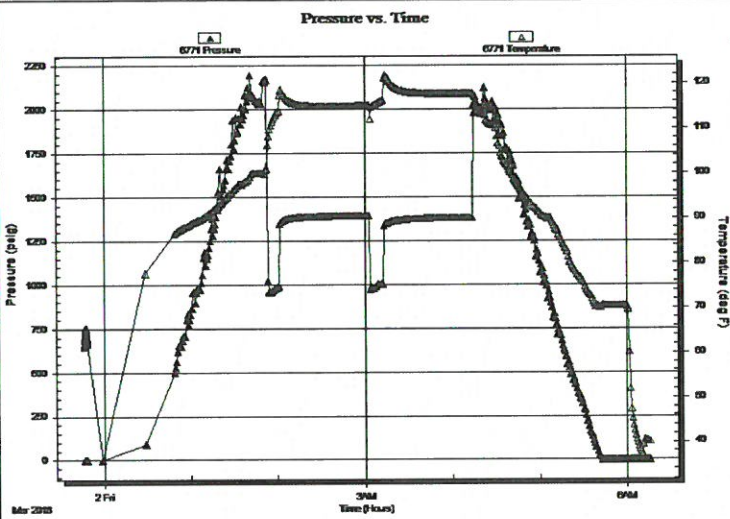
Formation: **Miss**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 01:54:33
 Time Test Ended: 06:16:18
 Interval: **4351.00 ft (KB) To 4378.00 ft (KB) (TVD)**
 Total Depth: 4378.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brannan Lonsdale
 Unit No: 73
 Reference Elevations: 2197.00 ft (KB)
 2192.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6771

Inside

Press@RunDepth: psig @ 4375.00 ft (KB)
 Start Date: 2018.03.01 End Date: 2018.03.02
 Start Time: 23:46:24 End Time: 06:15:44
 Capacity: 8000.00 psig
 Last Calib.: 2018.03.02
 Time On Btm:
 Time Off Btm:

TEST COMMENT: 10- IF- BOB 10 secs. GTS 2 mins
 60- IS- No blow
 10- FF- BOB instantly
 60- FS- No blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
20.00	GSMCO, 10%G 5%M 85%O	0.28
0.00	GTS	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	1.00	140.00	4438.82
Last Gas Rate	1.00	155.00	4870.05

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Bear Petroleum, LLC

15-22S-20W Pawnee, KS

PO Box 438
Haysville, KS 67060

Ryan #1

Job Ticket: 63411

DST#: 2

ATTN: Rod Andersen

Test Start: 2018.03.01 @ 23:46:57

Tool Information

Drill Pipe:	Length: 4338.00 ft	Diameter: 3.82 inches	Volume: 61.49 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 73000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 71000.00 lb
Depth to Top Packer:	4351.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	27.00 ft			
Tool Length:	55.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4324.00	
Shut In Tool	5.00			4329.00	
Hydraulic tool	5.00			4334.00	
Jars	5.00			4339.00	
Safety Joint	3.00			4342.00	
Packer	5.00			4347.00	28.00 Bottom Of Top Packer
Packer	4.00			4351.00	
Stubb	1.00			4352.00	
Perforations	23.00			4375.00	
Recorder	0.00	6771	Inside	4375.00	
Recorder	0.00	8524	Outside	4375.00	
Bullnose	3.00			4378.00	27.00 Bottom Packers & Anchor

Total Tool Length: 55.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Bear Petroleum, LLC

15-22S-20W Pawnee, KS

PO Box 438
Haysville, KS 67060

Ryan #1

Job Ticket: 63411

DST#: 2

ATTN: Rod Andersen

Test Start: 2018.03.01 @ 23:46:57

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 38 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.98 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 2500.00 ppm		
Filter Cake: inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	GSMCO, 10%G 5%M 85%O	0.284
0.00	GTS	0.000

Total Length: 20.00 ft Total Volume: 0.284 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Bear Petroleum, LLC

15-22S-20W Pawnee, KS

PO Box 438
Haysville, KS 67060

Ryan #1

Job Ticket: 63411

DST#: 2

ATTN: Rod Andersen

Test Start: 2018.03.01 @ 23:46:57

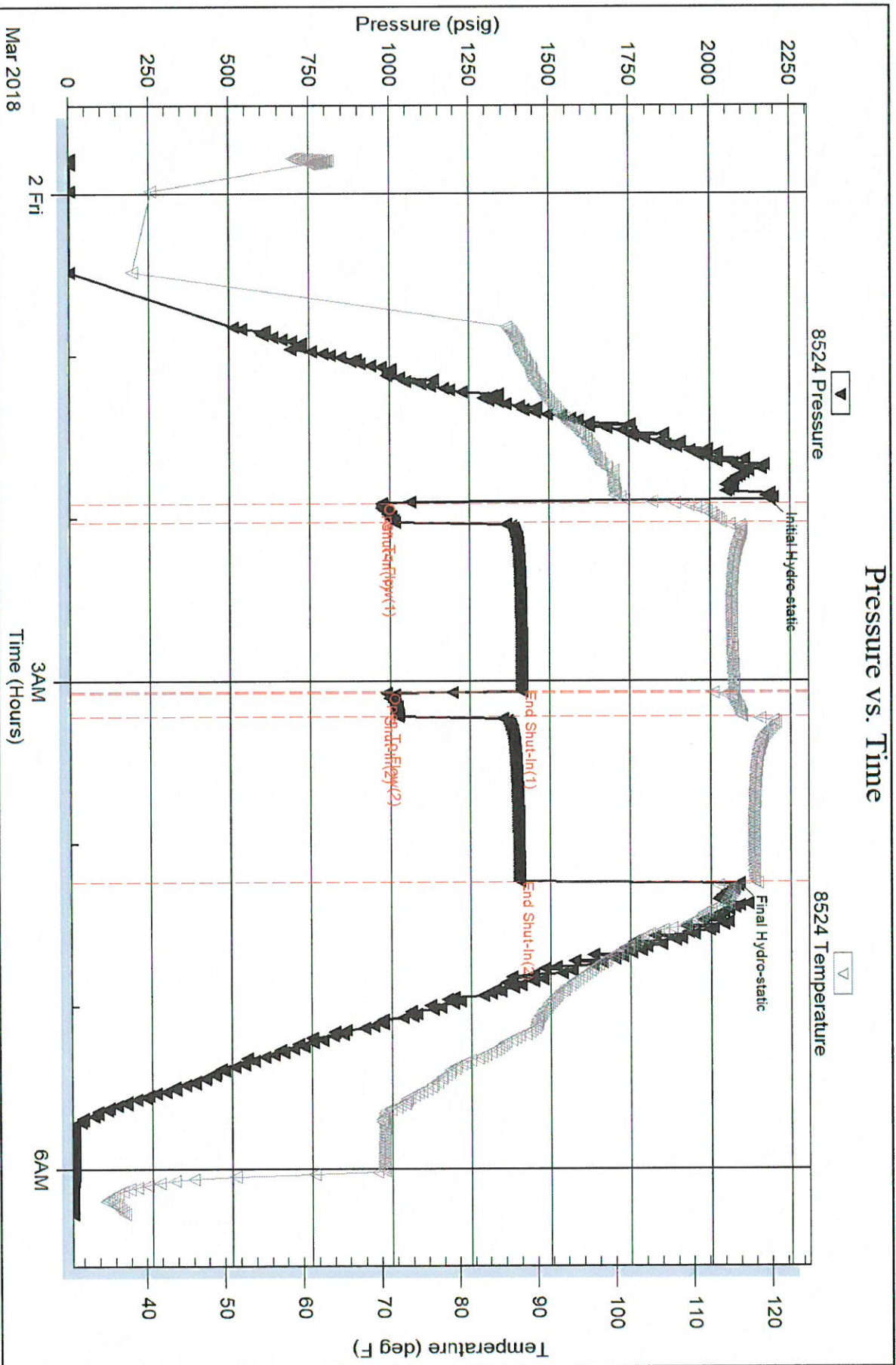
Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
2	5	1.00	140.00	4438.82
2	10	1.00	155.00	4870.05

Pressure vs. Time



Serial #: 6771

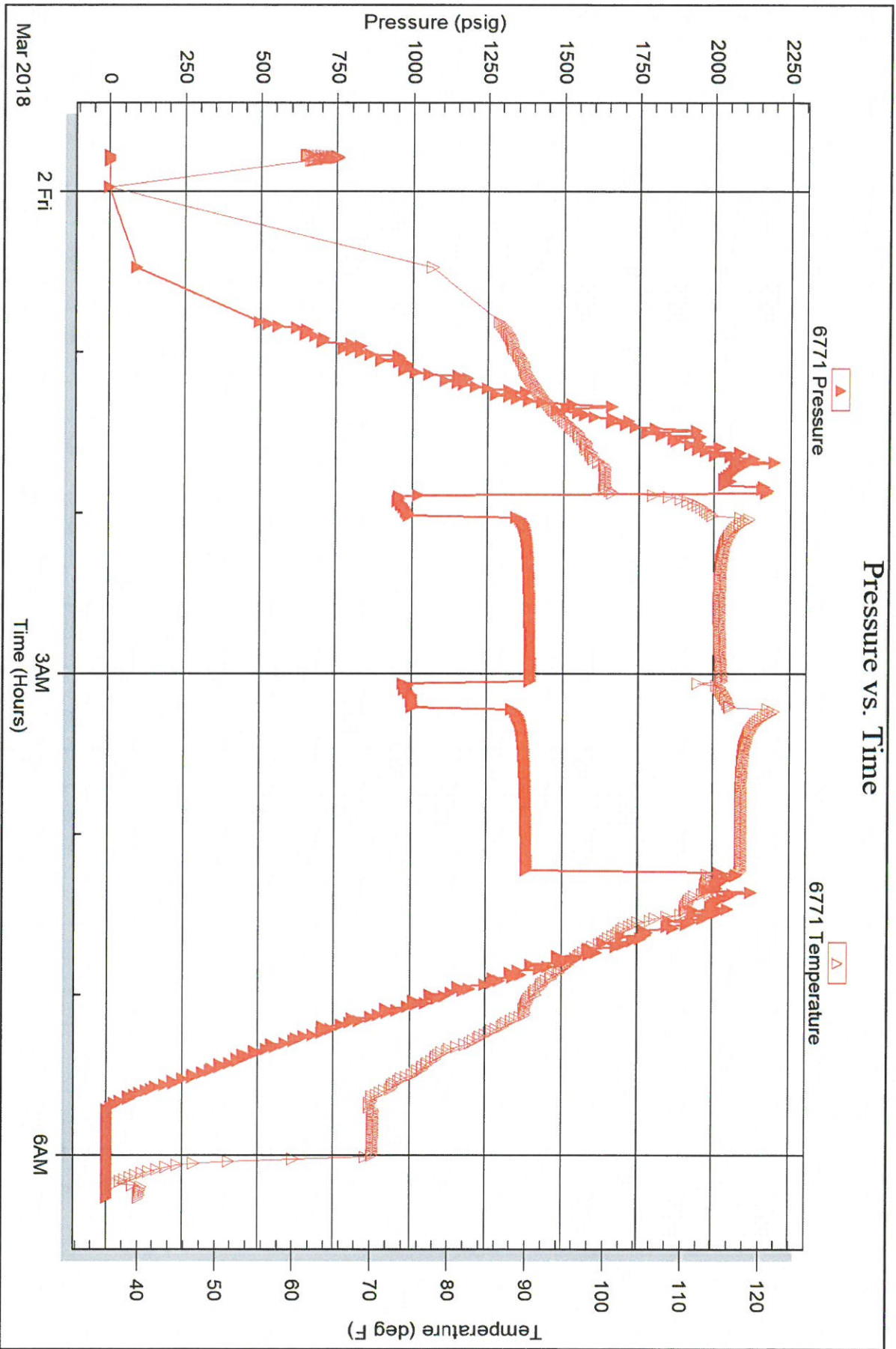
Inside

Bear Petroleum, LLC

Ryan #1

DST Test Number: 2

Pressure vs. Time





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63410

Well Name & No. Ryan #1 Test No. 1 Date 3/1/18
 Company Bear Petroleum, LLC Elevation 2197 KB 2192 GL
 Address PO Box 438 Haysville, KS 67060
 Co. Rep / Geo. Rod Andersen Rig Royal #1
 Location: Sec. 15 Twp 22 S Rge. 20 Wdo. Pawnee State KS

Interval Tested 4316-4348 Zone Tested MISS
 Anchor Length 32' Drill Pipe Run 4306 Mud Wt. 8.9
 Top Packer Depth 4311 Drill Collars Run --- Vis 56
 Bottom Packer Depth 4316 Wt. Pipe Run --- WL 8.0
 Total Depth 4348 Chlorides 2,500 ppm System LCM 1 1/2"

Blow Description IF-BOB 10secs
ISF - Very weak surface blow (GTS 4mins into bleedoff)
FF-BOB instantly
AST - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>M</u>				
	<u>GTS 34mins (TSTM)</u>				

Rec Total 30' BHT 119° Gravity --- API RW --- @ --- °F Chlorides --- ppm

(A) Initial Hydrostatic <u>2153</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>1030</u>
(B) First Initial Flow <u>54</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1044</u>
(C) First Final Flow <u>78</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1334</u>
(D) Initial Shut-In <u>1354</u>	<input type="checkbox"/> Circ Sub <u>---</u>	T-Pulled <u>1634</u>
(E) Second Initial Flow <u>45</u>	<input type="checkbox"/> Hourly Standby <u>---</u>	T-Out <u>1808</u>
(F) Second Final Flow <u>40</u>	<input checked="" type="checkbox"/> Mileage <u>128 RT</u> 94rt	Comments <u>---</u>
(G) Final Shut-In <u>1327</u>	<input type="checkbox"/> Sampler <u>---</u>	
(H) Final Hydrostatic <u>2100</u>	<input type="checkbox"/> Straddle <u>---</u>	<input type="checkbox"/> Ruined Shale Packer <u>---</u>
	<input type="checkbox"/> Shale Packer <u>---</u>	<input type="checkbox"/> Ruined Packer <u>---</u>

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

Extra Packer ---
 Extra Recorder ---
 Day Standby ---
 Accessibility ---

Sub Total 1569

Sub Total 1569

Approved By _____ Our Representative Brannan Lonsdale

Triobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63411

Well Name & No. Ryan #1 Test No. 2 Date 3/2/18
 Company Bear Petroleum LLC Elevation 2197 KB 2192 GL
 Address PO Box 438 Haysville, KS 67060
 Co. Rep / Geo. Rod Andersen Rig Royal #1
 Location: Sec. 15 Twp 22 S Rge. 20 W Co. Pawnee State KS

Interval Tested 4351-4378 Zone Tested MISS
 Anchor Length 27' Drill Pipe Run 4338 Mud Wt. 8.9
 Top Packer Depth 4346 Drill Collars Run — Vis 56
 Bottom Packer Depth 4351 WI. Pipe Run — WL 8.0
 Total Depth 4378 Chlorides 3,500 ppm System LCM 1 1/2

Blow Description IF- BOB 10 secs GTS 2 mins
ISI- No blow
FF- BOB instantly
FST- No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>ASMCO</u>	<u>10</u>	<u>85</u>	<u>5</u>	<u>—</u>
Rec	Feet of <u>GTS</u>	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 20' BHT 118° Gravity 38 API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2188</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>2335</u>
(B) First Initial Flow <u>973</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>2346</u>
(C) First Final Flow <u>1015</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>0153</u>
(D) Initial Shut-In <u>1412</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>0413</u>
(E) Second Initial Flow <u>986</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0615</u>
(F) Second Final Flow <u>1022</u>	<input checked="" type="checkbox"/> Mileage <u>128 RT</u> 94	Comments <u>Stayed 1 night @ Country Inn in Larned, KS</u>
(G) Final Shut-In <u>1403</u>	<input type="checkbox"/> Sampler	<input type="checkbox"/> Ruined Shale Packer
(H) Final Hydrostatic <u>2089</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Packer

Initial Open <u>10</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer	Sub Total <u>0</u>
Final Flow <u>10</u>	<input type="checkbox"/> Extra Recorder	Total <u>1569</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby	MP/DST Disc't
	<input type="checkbox"/> Accessibility	
	Sub Total <u>1569</u>	

Approved By _____ Our Representative Brannan Lonsdale

Triobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

LITHOLOGY STRIP LOG

WellSight Systems

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

Well Name: RYAN #1

Location: PAWNEE COUNTY, KANSAS USA

Licence Number:

Spud Date: 2-15-2018

Region:

Drilling Completed: 3-3-2018

Surface Coordinates: NW NW NW SECTION 15 T22S-R20W

Bottom Hole

Coordinates:

Ground Elevation (ft): 2193

K.B. Elevation (ft): 2199

Logged Interval (ft): 2200 To: 4488

Total Depth (ft): 4488

Formation: VIOLA

Type of Drilling Fluid: MI DRILLING FLUIDS

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

OPERATOR

Company: BEAR PETROLEUM LLC

Address:





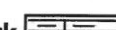
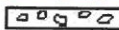



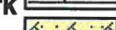



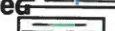
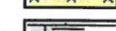

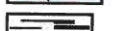
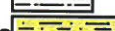
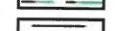

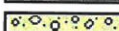





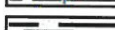








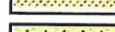
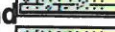
MUDLOGGER

Name: ROD ANDERSEN

Company: KANSAS PETROLEUM RESOURCES LLC

Address:

ROCK TYPES

	Anhy		Oolitic ls -1		Salt		Grn sh strk		Calc shale
	Brec		Stgensndy-1		Sndy sh-reg		Lmy sh-2		Granitewash
	Cht		New ls-1		Sndy sh		Grn mott gy		Ls shly-b
	Coal		Carby shale		Sltst-1		Shale-1		Poor sortd ss
	Congl		Lmy carby		Sltst		Red sh-1		Snd-ls-sh
	Dolo new		Carb sh		Lmy ss-1		Stgensndy-arkos		
	Newdolo ls		Gyp		Arkosic snd		Sndy ool ls		
	Ls & ooids		Sltst		Ss		Sndy-ls-1		

ACCESSORIES

LITHOLOGY

- Anhy
- Brec
- Cht
- Coal
- Congl
- Dolo new
- Newdolo ls 2
- Ls & ooids
- Oolitic ls -1
- Stgensndy-arkos
- New ls-1
- Carby shale
- Lmy carby sh-3
- Carb sh
- Gyp
- Sltst
- Salt
- Sndy sh-red
- Sndy sh
- Sltst-1
- Silty-shale
- Lmy ss-1
- Arkosic snd
- Ss
- Grn sh strk
- Lmy sh-2

- Grn mott gy sh
- Shale-1
- Red sh-1
- Stgensndy-arkos
- Sndy ool ls
- Sndy-ls-1
- Calc shale
- Granitewash
- Ls shly-b
- Poor sortd ss
- Snd-ls-sh

FOSSIL

- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro

- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom

MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Brecfrag
- Calc
- Carb
- Chtdk
- Chtlt
- New dolostringer
- Dol
- Fldspr-1
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin

- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr
- Qtz
- New symbol
- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff
- Styolitic
- Slickenside

STRINGER

- Anhy
- Red sh stringer
- Arg
- Bent
- Coal
- Dol
- Gyp
- Oolls-1
- Ls

- Mrst
- Sltstgr
- Ssstgr
- Grn sh strk

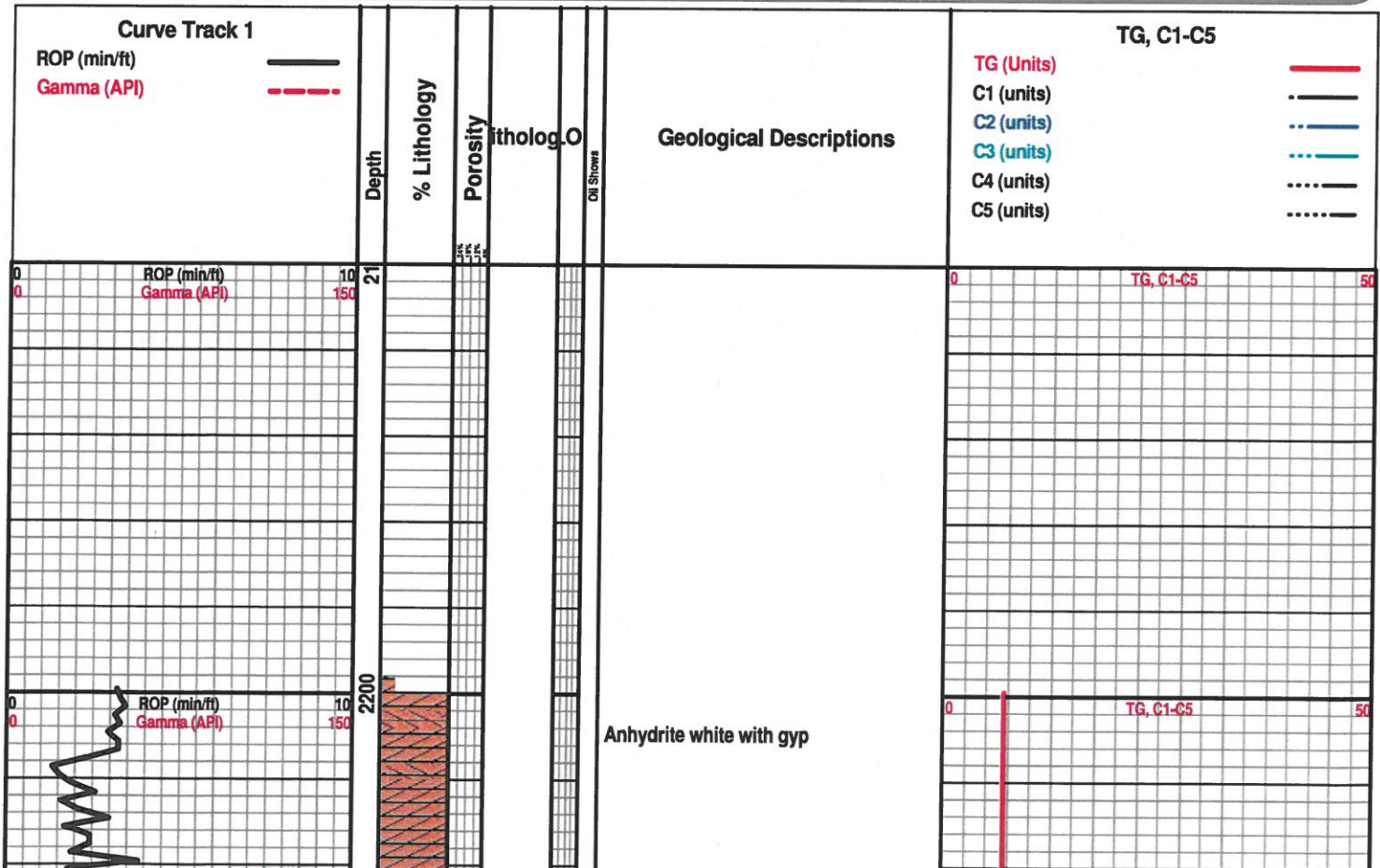
TEXTURE

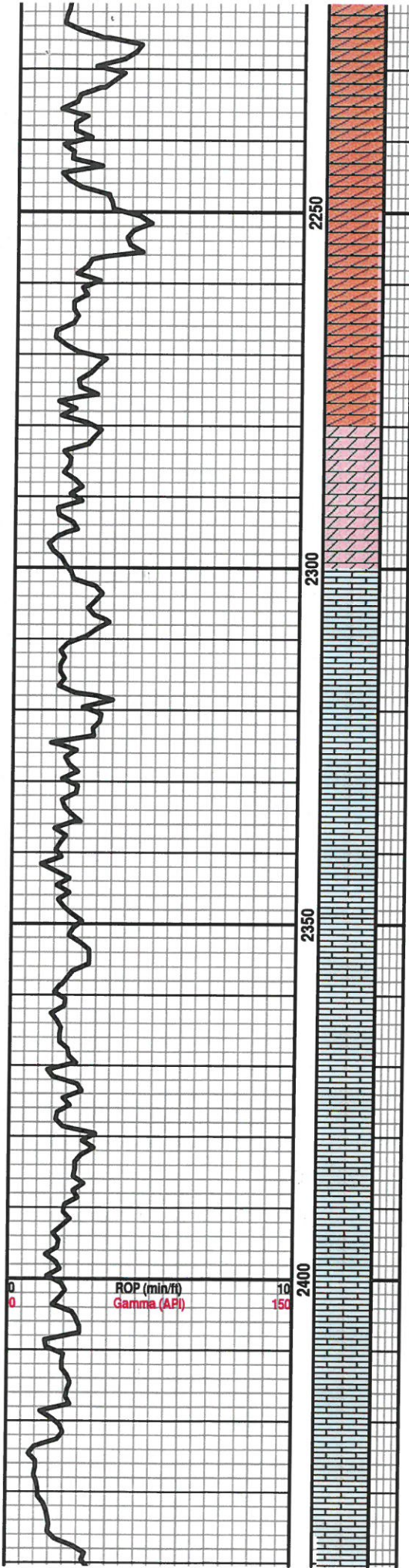
- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackst

OIL SHOW

- Even
- Spotted
- Ques
- Dead

Comments





Sh gy
HERINTON 2278 -79
 Dol gy sucrosic

Dol brn sucrosic
KRIDER 2290 -91

Ls crm fxln-cxln pinpoint por

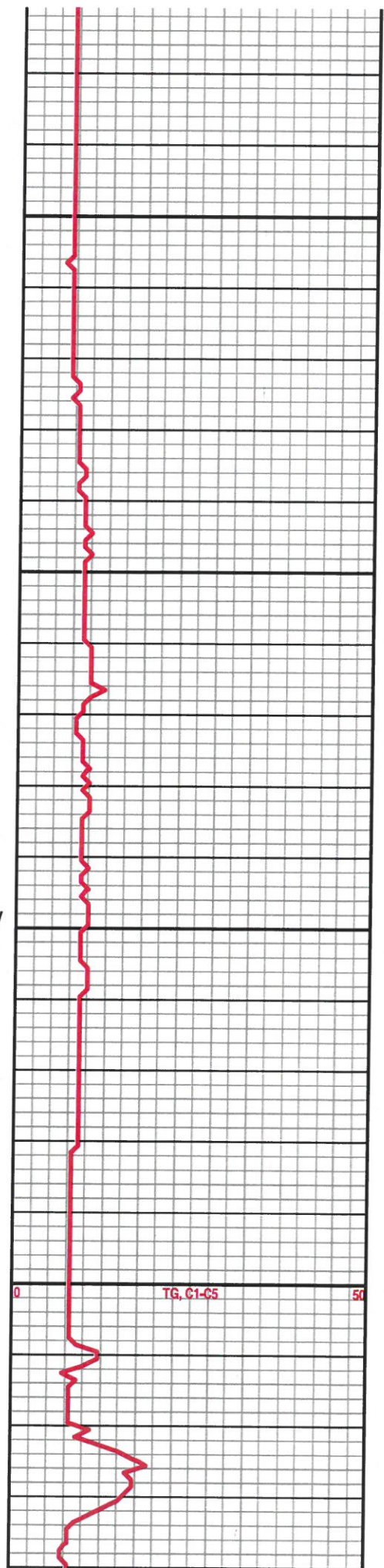
WINFIELD 2338 -139

Ls white to gray cxln pinpoint to vuggy por

TOWANDA 2402 -203

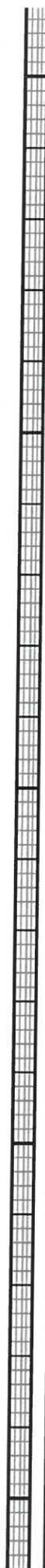
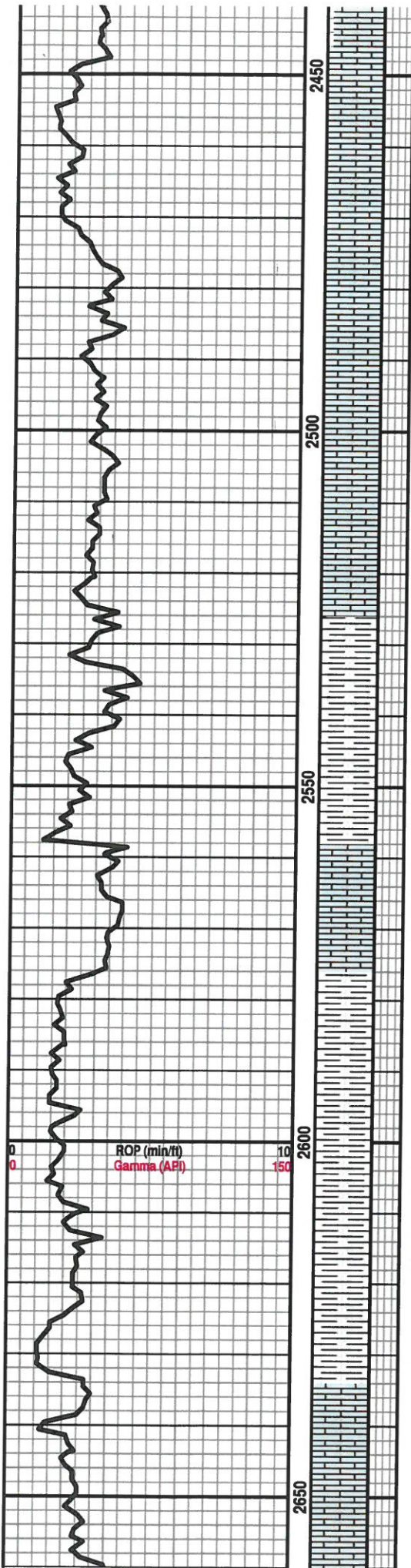
Ls fxln to cxln pinpoint por yellow flor

Ls cxln white to cream pinpoint to vuggy por yellow flor



TG, C1-C5

50



FT RILEY 2460 -261

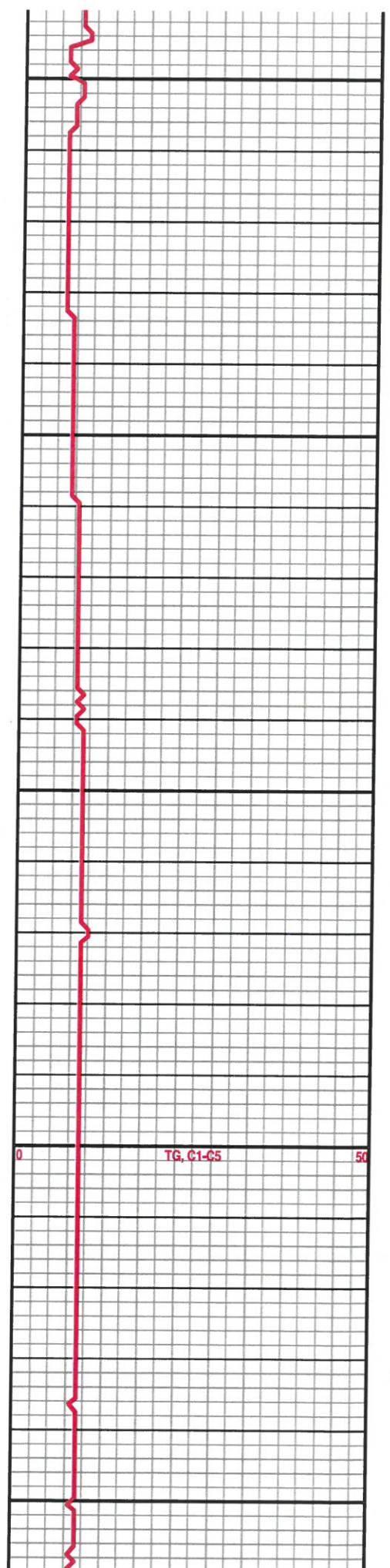
Ls white cxln pinpoint to vuggy por yellow flor

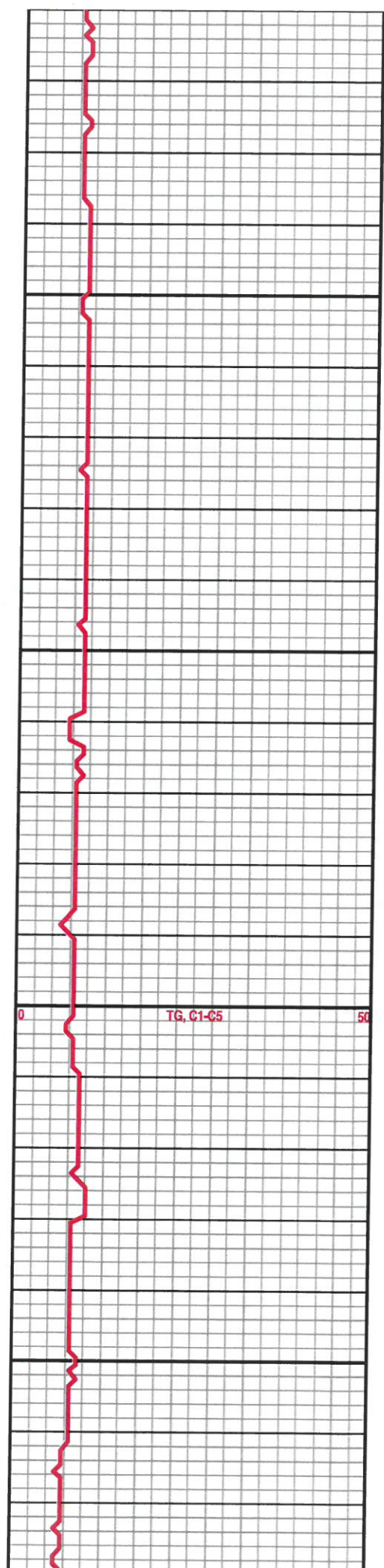
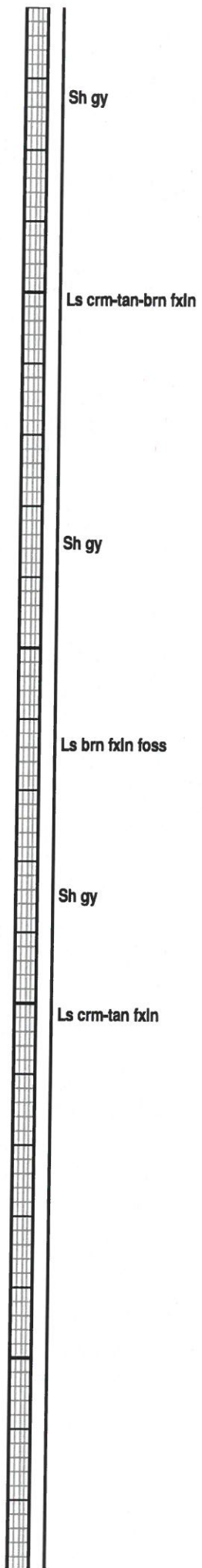
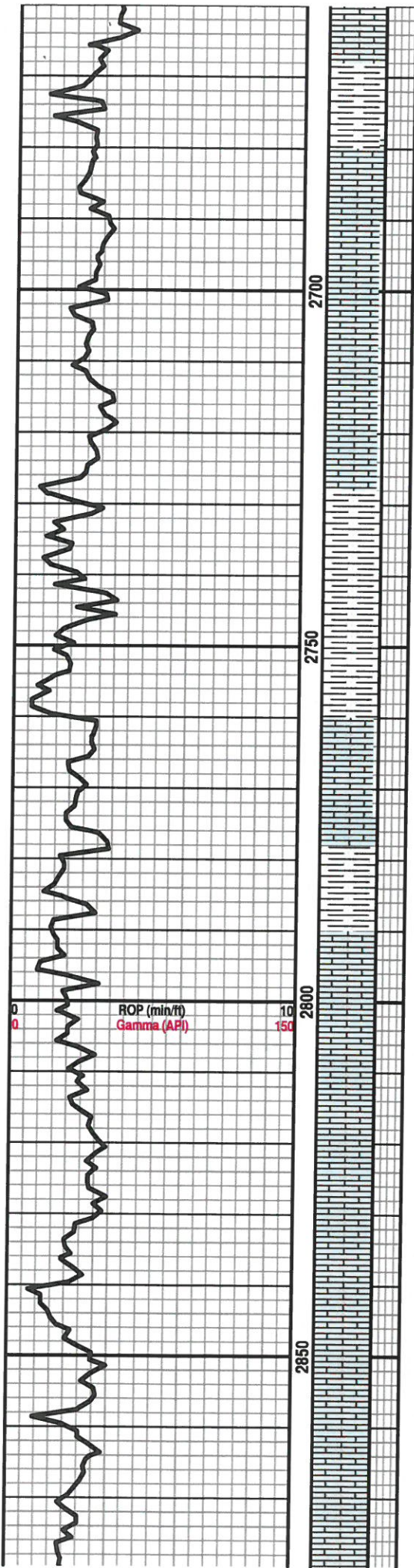
Sh gy

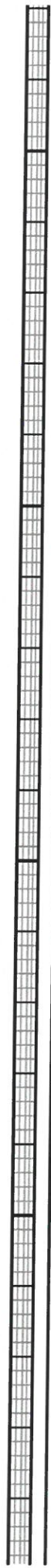
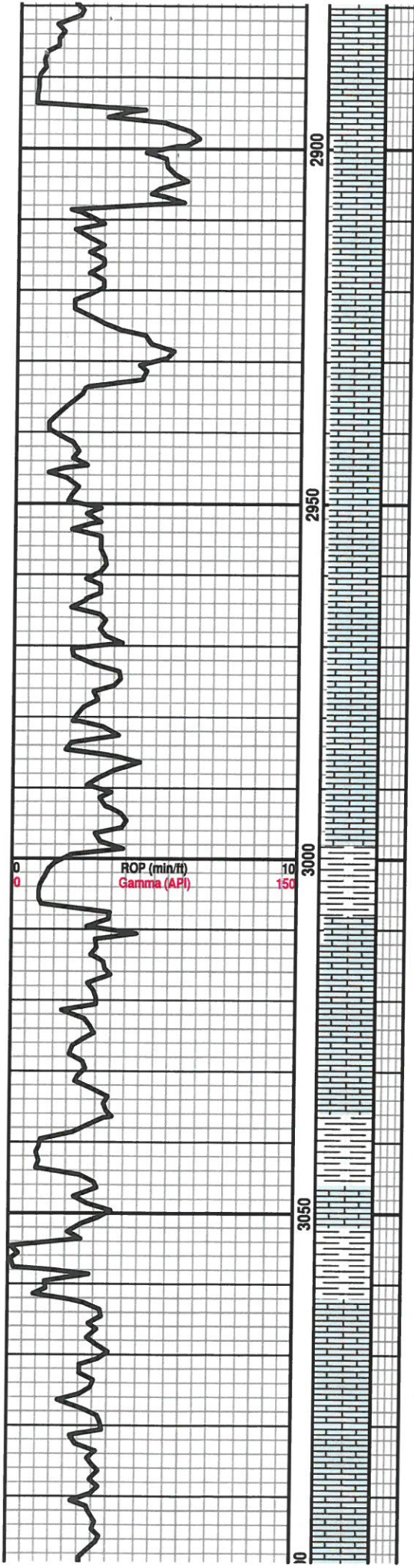
Ls brn fxln foss

Sh gy

Ls crm-brn fxln-cxln







Ls crm -tan fxln-cxln foss

Ls crm -brn fxln

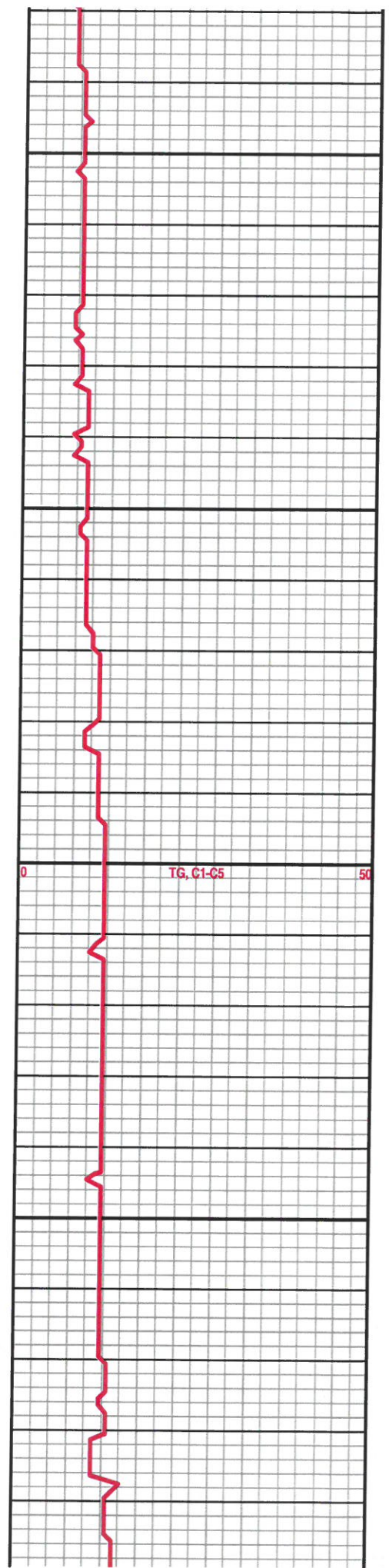
Sh gy

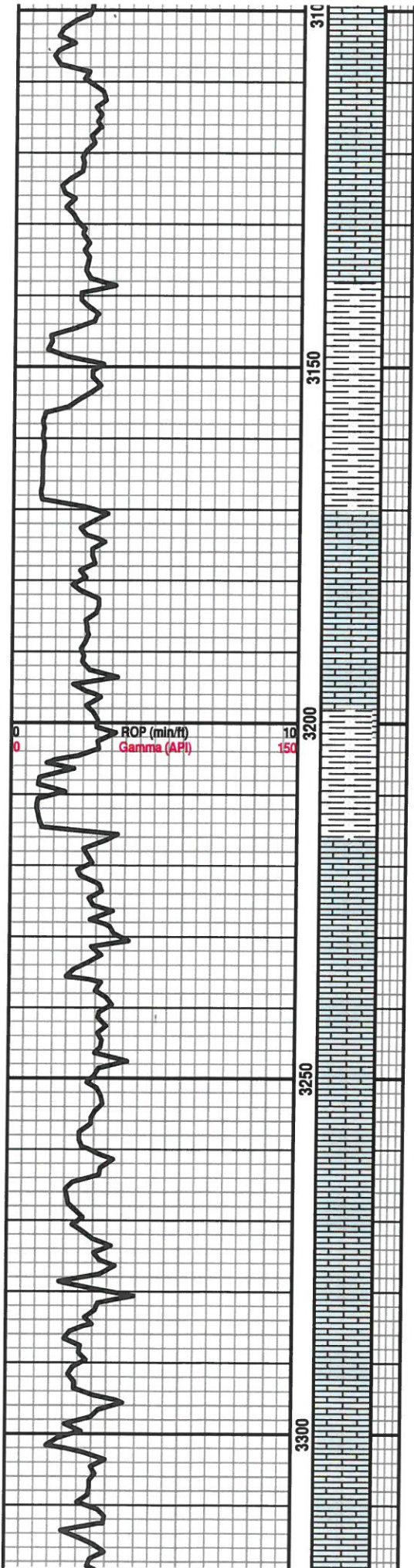
Ls crm to tan fxln-cxln

Sh gy

Sh gy

Ls crm-tan fxln

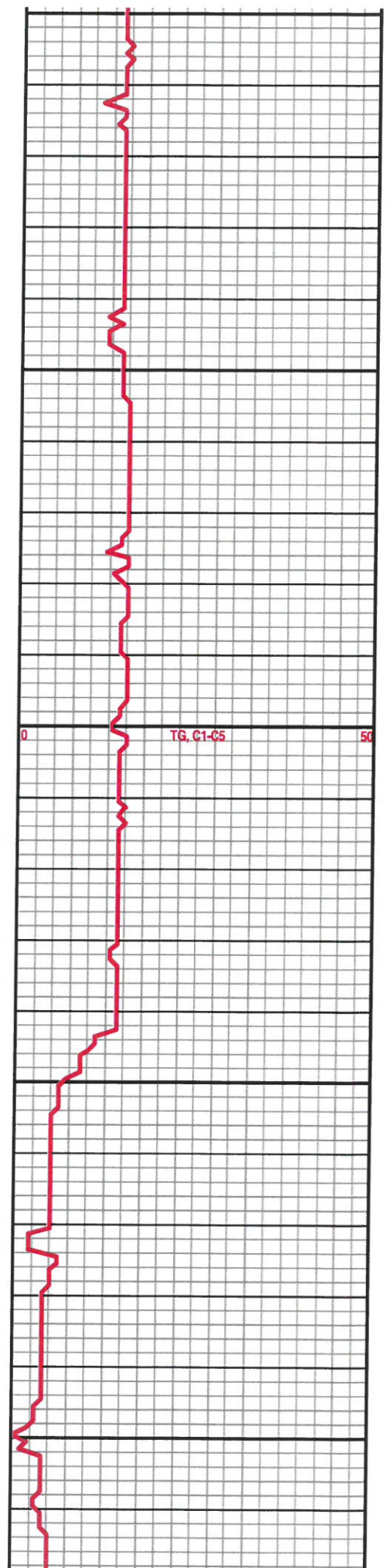


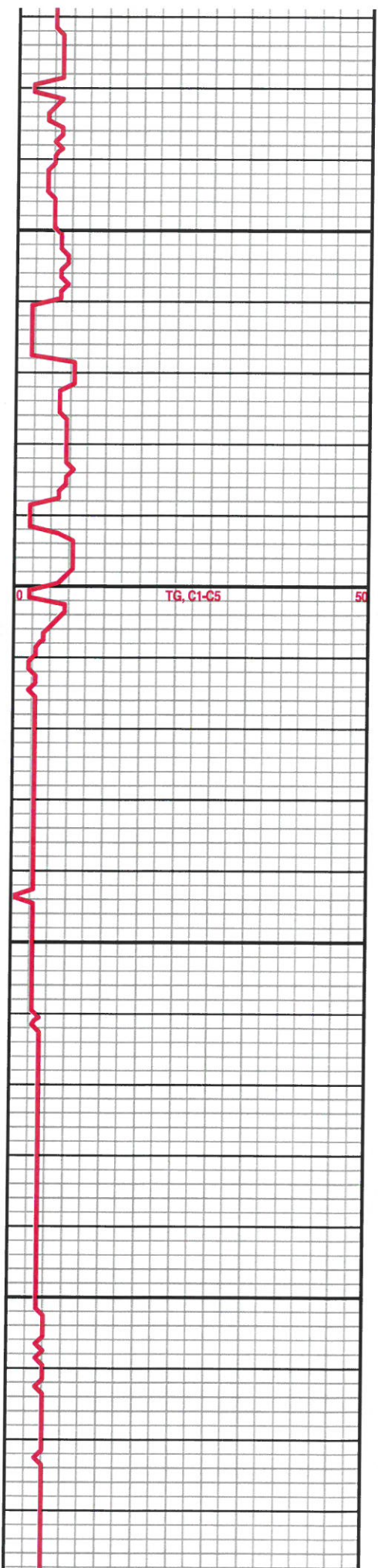
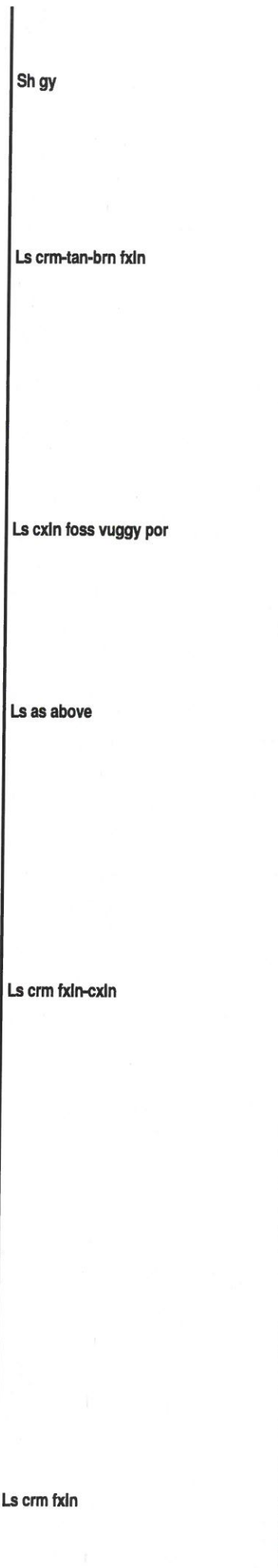
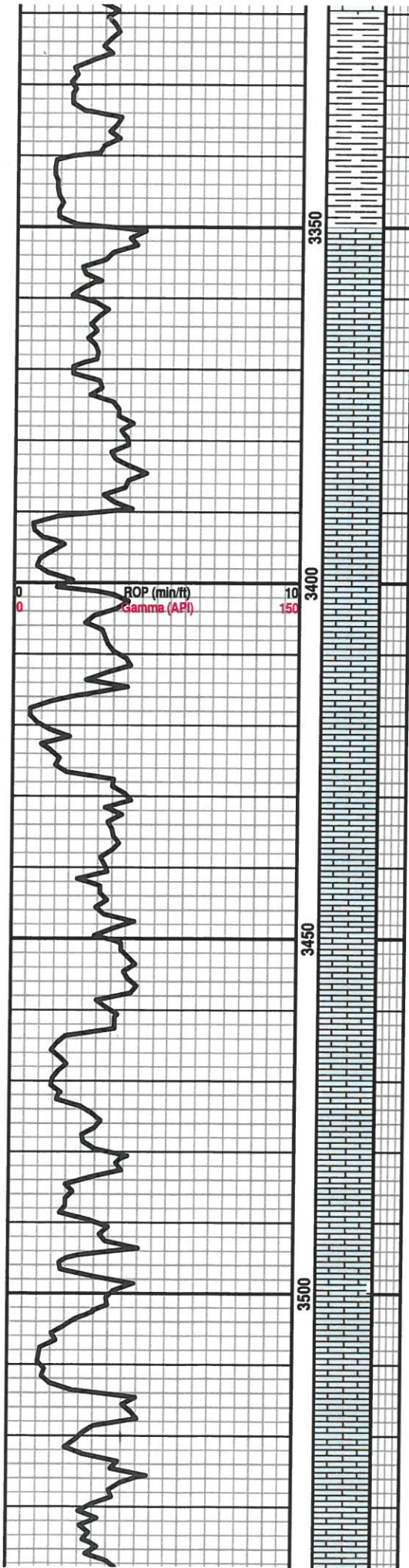


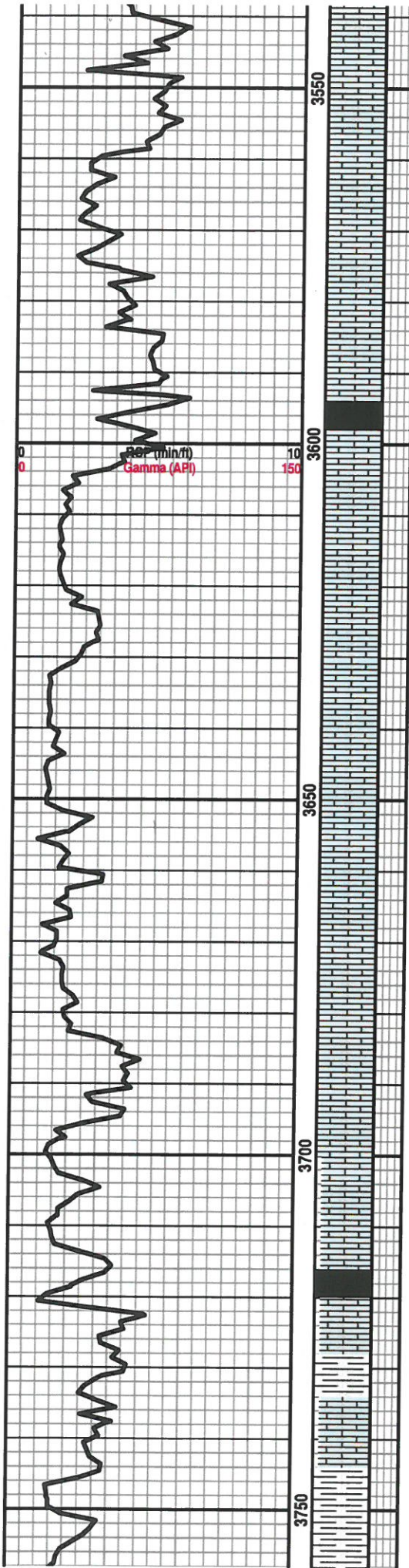
Sh gy

Sh gy

Ls crm-tan fxln-cxln







TOPEKA 3596 -1397

Ls crm-tan fxln-cxln no show

Ls crm fxlnscatter stain

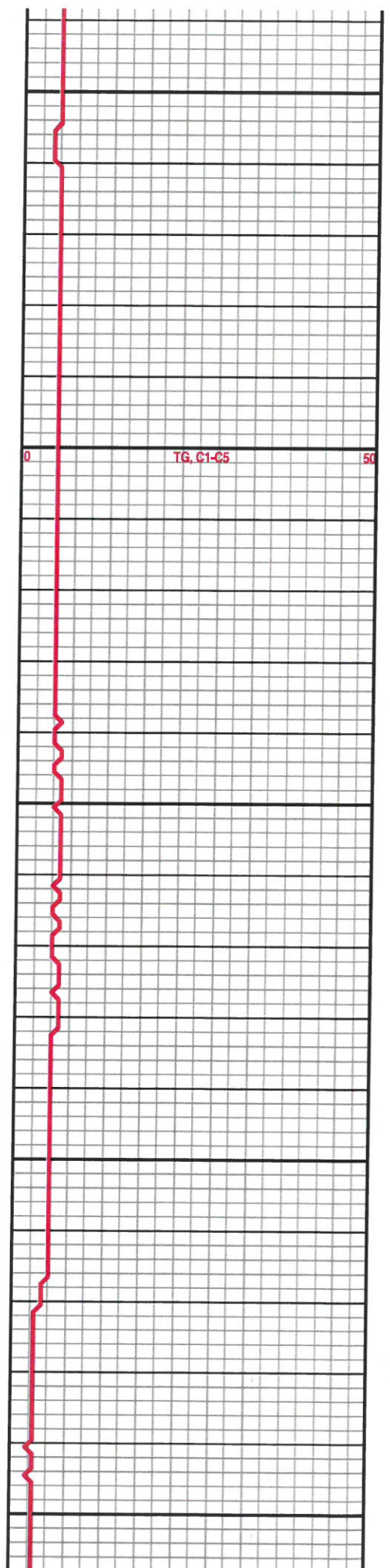
HEEBNER 3716 -1517

Sh gy

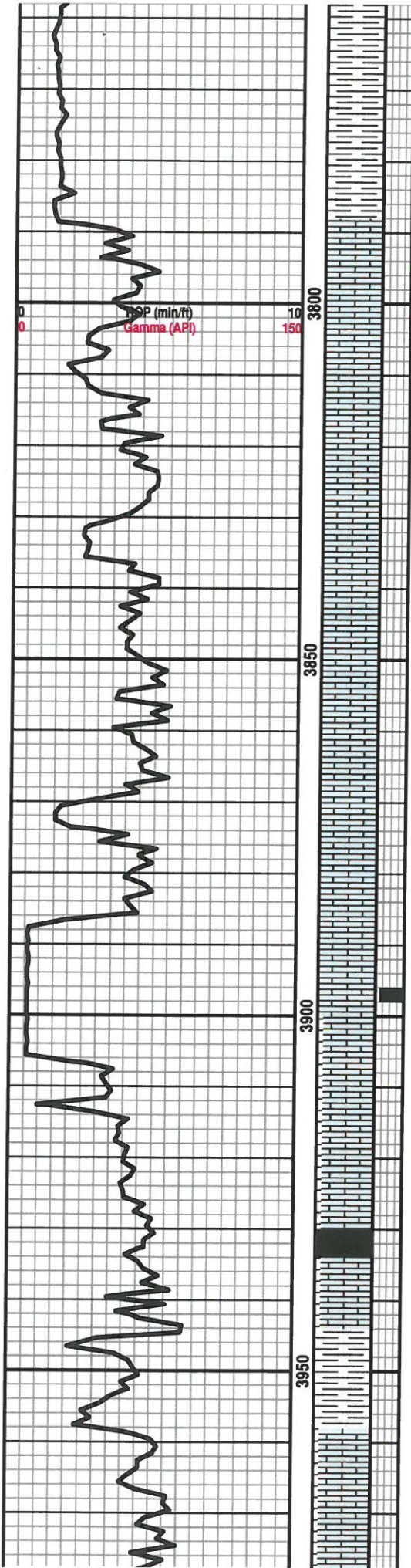
TORONTO 3734 -1535

Ls crm fxln trace stain

Sh gy - blk



IANSING 3788 -1589



Ls crm-tan fxln- cxln

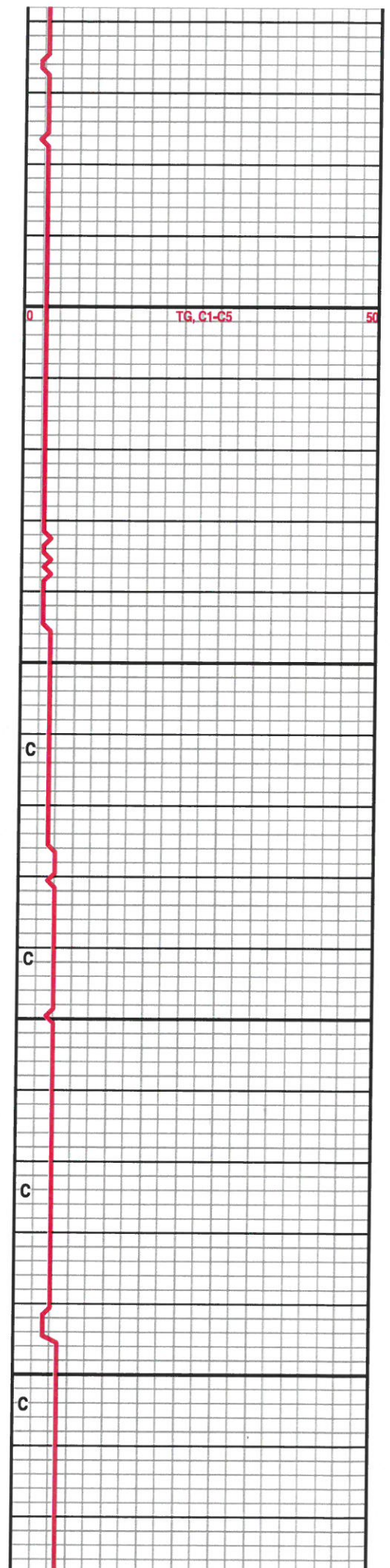
Ls crm fxkb

Oolites crm

ls crm-tan fxln foss

Ls crm fxln foss

Sh gy

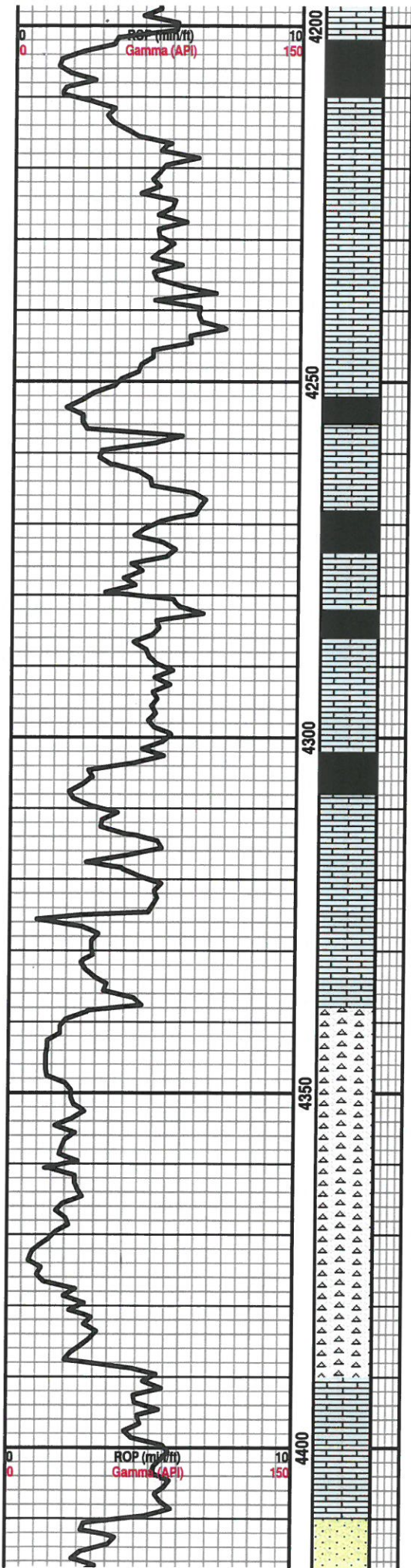


C

C

C

C



BASE KANSAS CITY
4196 - 1997

MARATON 4212 - 2013
Sh gy

PAWNEE 4246 -2047

Sh blk carb.

FT SCOTT 4272 -2073

CHEROKEE 4304 -2105

BASE OF CHEROKEE LM
4326 - 2127

MISS 4336 -2137

Chert tripolitic weathered good stain
pinpoint to vuggy por flor sli odor some
free oil

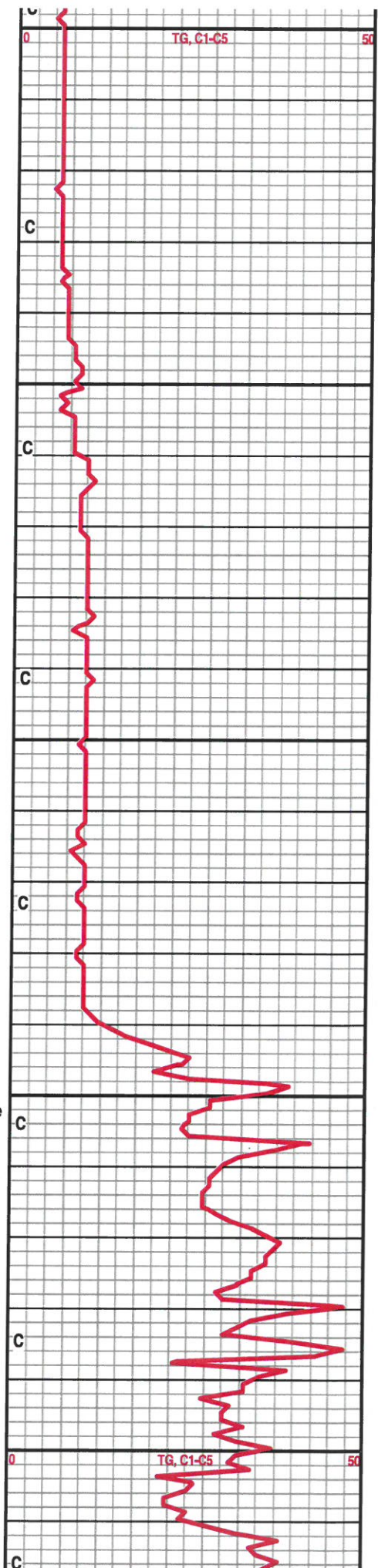
Chert as above

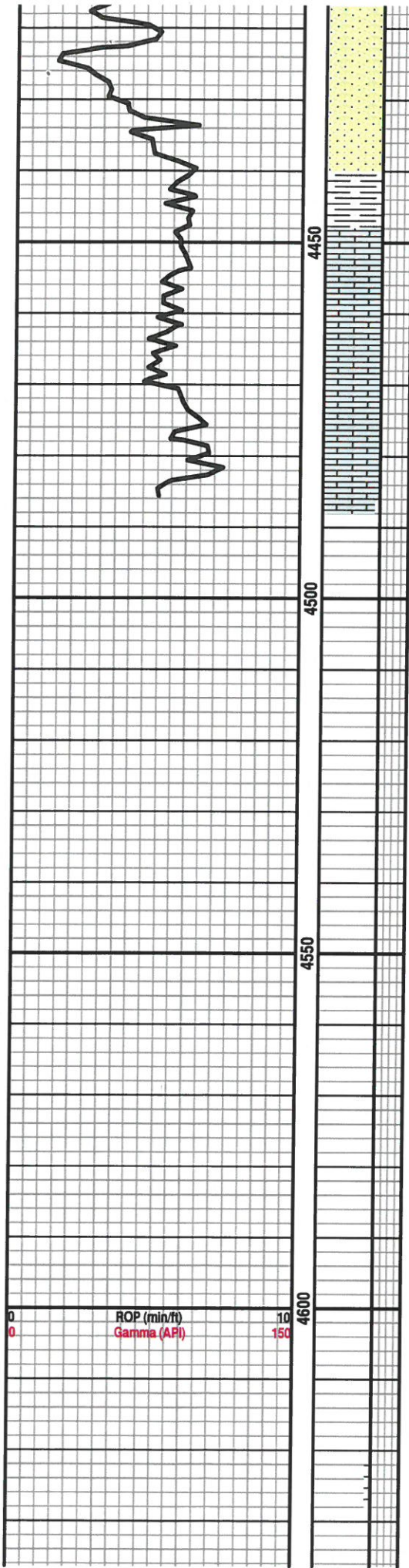
Chert vaicolored free oil good staining
odor good flor.

GILMORE CITY 4386-2187

Ls fxln white to cream dense no show

KINDERHOOK 4408-2209



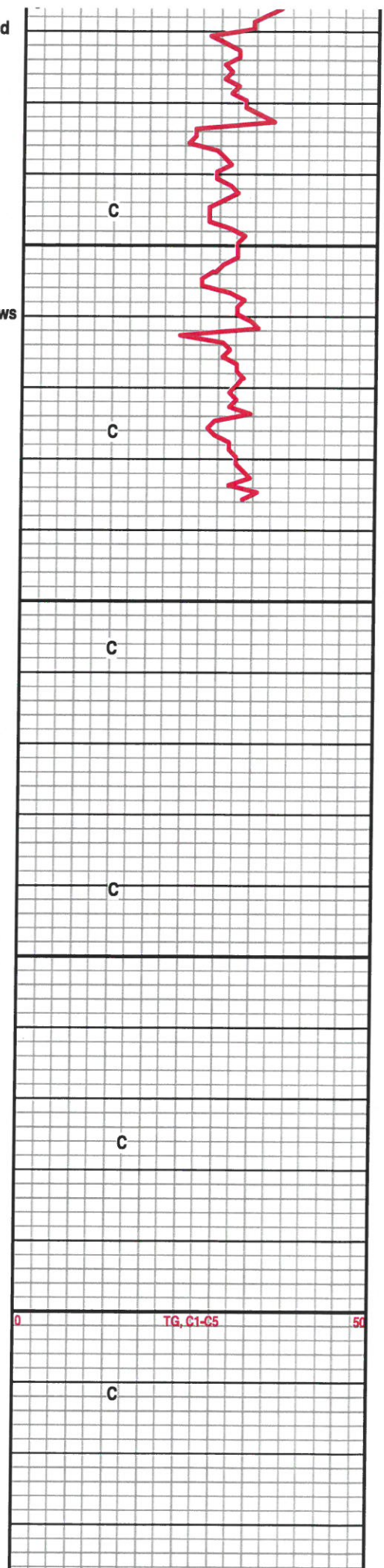


Ss fn gr- med grain round to subround
 clear clusters bleeding oil odor fair
 saturation

VIOLA 4450 -2251

Ls vfxin white to cream dense no shows

TD 4487 BIT CREATED





FIELD ORDER N° C 46099

BOX 438 • HAYSVILLE, KANSAS 67060
316-524-1225

DATE 2/23/12 20

IS AUTHORIZED BY: Beor Petroleum (NAME OF CUSTOMER)

Address _____ City _____ State _____

To Treat Well As Follows: Lease Ryan Well No. 1 Customer Order No. _____

Sec. Twp. Range _____ County Pawnee State KS

CONDITIONS: As a part of the consideration hereof it is agreed that Copeland Acid Service is to service or treat at owners risk, the hereinbefore mentioned well and is not to be held liable for any damage that may accrue in connection with said service or treatment. Copeland Acid Service has made no representation, expressed or implied, and no representations have been relied on, as to what may be the results or effect of the servicing or treating said well. The consideration of said service or treatment is payable. There will be no discount allowed subsequent to such date. 6% interest will be charged after 60 days. Total charges are subject to correction by our invoicing department in accordance with latest published price schedules.

The undersigned represents himself to be duly authorized to sign this order for well owner or operator.

THIS ORDER MUST BE SIGNED BEFORE WORK IS COMMENCED

Well Owner or Operator

By

Agent

CODE	QUANTITY	DESCRIPTION	UNIT COST	AMOUNT
2	40	milcase pump truck	4. ⁰⁰	160.00
2	40	milcase pickup	2. ⁰⁰	80.00
2	1	Pump Charge - Surface		1,100.00
2	850	65/35 perc. 2% sol.	10. ⁷⁵	3,762.50
2	13	4% additional sol.	27. ⁰⁰	296.00
2	200	65/40 perc. 2% sol.	10. ⁷⁵	2,150.00
2	30	Calcium Chloride	30. ⁰⁰	900.00
2	1	Bozzle Plate		115.00
2	1	Wood Plug		65.00
2	593	Bulk Charge	1. ²⁵	741.75
2		Bulk Truck Miles $25.6T \times 40m = 1,024Tm \times 1.10$	1. ¹⁰	1,126.40
		Process License Fee on _____ Gallons		10,496.15
TOTAL BILLING				

I certify that the above material has been accepted and used; that the above service was performed in a good and workmanlike manner under the direction, supervision and control of the owner, operator or his agent, whose signature appears below.

Copeland Representative Nathan W.

Station G.A

Dick S.
Well Owner, Operator or Agent

Remarks _____

NET 30 DAYS



FIELD ORDER N^o C 45654

BOX 438 • HAYSVILLE, KANSAS 67060
316-524-1225

DATE 3/3/12 _____ 20____

IS AUTHORIZED BY: Beer Petroleum (NAME OF CUSTOMER)
 Address _____ City _____ State _____
 To Treat Well _____
 As Follows: Lease Ryc- Well No. I Customer Order No. _____
 Sec. Twp. _____
 Range _____ County Pownee State Ks

CONDITIONS: As a part of the consideration hereof it is agreed that Copeland Acid Service is to service or treat at owners risk, the hereinbefore mentioned well and is not to be held liable for any damage that may accrue in connection with said service or treatment. Copeland Acid Service has made no representation, expressed or implied, and no representations have been relied on, as to what may be the results or effect of the servicing or treating said well. The consideration of said service or treatment is payable. There will be no discount allowed subsequent to such date. 6% interest will be charged after 60 days. Total charges are subject to correction by our invoicing department in accordance with latest published price schedules.

The undersigned represents himself to be duly authorized to sign this order for well owner or operator.

THIS ORDER MUST BE SIGNED BEFORE WORK IS COMMENCED _____ By _____
 Well Owner or Operator Agent

CODE	QUANTITY	DESCRIPTION	UNIT COST	AMOUNT
2	45	mileage pump truck	4. ^{00/}	180.00
2	45	mileage pickup	2. ^{00/}	90.00
2	1	pump charge - Long strings	1,800	3,200.00
		rot Head Rental		300.00
2	450	60/40 per. 2% sol.	10. ^{75/}	4,837.50
2	2400 #	Salt	.25	600.00
2	1,000 #	Gilsonite	.75	750.00
	150 #	E-47	8.50	1,275.00
2	300 #	C-41A	3.75	1,125.00
2	100 #	C-37	4.00	400.00
	50 #	C-12	6.00	300.00
2	0	Gal	22.00	176.00
	600 gal.	mud-Flush	.75	450.00
2	8	Centralizers - Turbo	85. ^{00/}	680.00
2	3	Acetats	155. ^{00/}	465.00
2	1	DV Tool w/ plug.		2,450.00
2	1	5 1/2 Fleet shoe w/ auto-fill.		355.00
2	530	Bulk Charge	1. ^{25/}	672.50
2		Bulk Truck Miles 22.27 x 45 = 999.75 x 1. ^{10/}	1. ^{10/}	1,099.90
		Process License Fee on _____ Gallons		19,404.90
TOTAL BILLING				

I certify that the above material has been accepted and used; that the above service was performed in a good and workmanlike manner under the direction, supervision and control of the owner, operator or his agent, whose signature appears below.

Copeland Representative Nathan W.

Station G.D

Dick S.
Well Owner, Operator or Agent

Remarks _____

NET 30 DAYS



TREATMENT REPORT

Acid Stage No. _____

Date 3/3/2018 District GB F.O. No. C45654
 Company Bear Petroleum
 Well Name & No. Ryan #1
 Location _____ Field _____
 County Pawnee State KS

Type Treatment: Amt. Type Fluid Sand Size Pounds of Sand
 Bkdown _____ Bbl./Gal. _____
 _____ Bbl./Gal. _____
 _____ Bbl./Gal. _____
 _____ Bbl./Gal. _____
 Flush _____ Bbl./Gal. _____

Casing: Size 5.5" Type & Wt. 15.5# Set at _____ ft.
 Formation: _____ Perf. _____ to _____
 Formation: _____ Perf. _____ to _____
 Formation: _____ Perf. _____ to _____
 Liner: Size _____ Type & Wt. _____ Top at _____ ft. Bottom at _____ ft.
 Cemented: Perforated from _____ ft. to _____ ft.
 Tubing: Size & Wt. _____ Swung at _____ ft.
 Perforated from _____ ft. to _____ ft.

Treated from _____ ft. to _____ ft. No. ft. 0
 from _____ ft. to _____ ft. No. ft. 0
 from _____ ft. to _____ ft. No. ft. 0

Actual Volume of Oil / Water to Load Hole: _____ Bbl./Gal.

Open Hole Size _____ T.D. _____ ft. P.B. to _____ ft.

Pump Trucks. No. Used: Std. 365 Sp. _____ Twin _____
 Auxiliary Equipment 360-367
 Personnel Nathan-Greg-Mike-Duane
 Auxiliary Tools _____
 Plugging or Sealing Materials: Type _____ Gals. _____ lb.

Company Representative Dick S. Treater Nathan W.

TIME a.m./p.m.	PRESSURES		Total Fluid Pumped	REMARKS
	Tubing	Casing		
10:00		5.5"		On Location. Ready to run pipe. Go through tally and mark pipe.
				Hole-4488' Centralizers-1,3,5,7,9,47,49,51
				Pipe-4486' Baskets-2,4,45
				Baffle-4464'
				DV Tool- 2557' (#46)
				<u>2640</u>
				Tag bottom with pipe. Taged approximately 5' high. Hook up and circulate down to 4488' Pick up 2' and circulate for 30 minutes.
				Pump 600gal of Mud Flush.
				Mix 200sk 60/40poz 2%gel .75%C-47 .75%C-41p 12% Salt 5#/sk Gilsonite.
				Wash out pump and lines.
				Displace with 106.7bbbls at 7bpm-700# Plug landed at 1300#
				Released pressure. Float Held. Drop opening tools for DV Tool. Wait 10 minutes. Pressure up to 1500# Tool opened. Circulate for 1.5 hours.
				Plug Rat Hole with 30sk and Mouse Hole with 20sk
				Mix 200sk 60/40poz 2%gel .5%C-37 .25%C-12 .75%C41p 12% Salt.
				Displace with 60.8bbbls at 7bpm-500#
				Plug landed at 800# Pressure up to 1050# and DV Tool closed.
				Released pressure.
				Thank You!
				Nathan W.



Field Service

P.O. BOX 438
Haysville, KS 67060

CEMENT BOND LOG

Company BEAR PETROLEUM, LLC.
Well RYAN #1
Field WILDCAT
County PAWNEE
State KANSAS

Company BEAR PETROLEUM, LLC.
Well RYAN #1
Field WILDCAT
County PAWNEE State KANSAS

Location 330' FNL & 330' FWL
NW-NW-NW
SEC. 15 TWP. 22S RGE. 20W
Permanent Datum GROUND LEVEL Elevation 2192
Log Measured From KELLY BUSHING 6" AGL
Drilling Measured From KELLY BUSHING
Other Services
K.B. 2199
D.F.
G.L. 2193

Date 03-22-2018

Run Number ONE
Depth Driller 4488
Depth Logger 4460
Bottom Logged Interval 4459
Top Log Interval 1875
Open Hole Size
Type Fluid WATER
Density / Viscosity
Max. Recorded Temp.
Estimated Cement Top 2075
Time Well Ready
Time Logger on Bottom
Equipment Number 405
Location GREAT BEND
Recorded By LEE BRETZ
Witnessed By MR. DICK SCHREMMER

Borehole Record
Run Number Bit From To Size Weight Tubing Record From To

Casing Record	Size	Mq/ft	Top	Bottom
Surface String	8.625		0	1274
Prot. String				
Production String	5.5		0	4486
Liner				

<<< Fold Here >>>

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

THANK YOU FOR USING GRESSEL OIL FIELD SERVICE!

DIRECTIONS
EAST OF BURDETT TO 340 AVE
3 MILES SOUTH EAST AND NORTH INTO



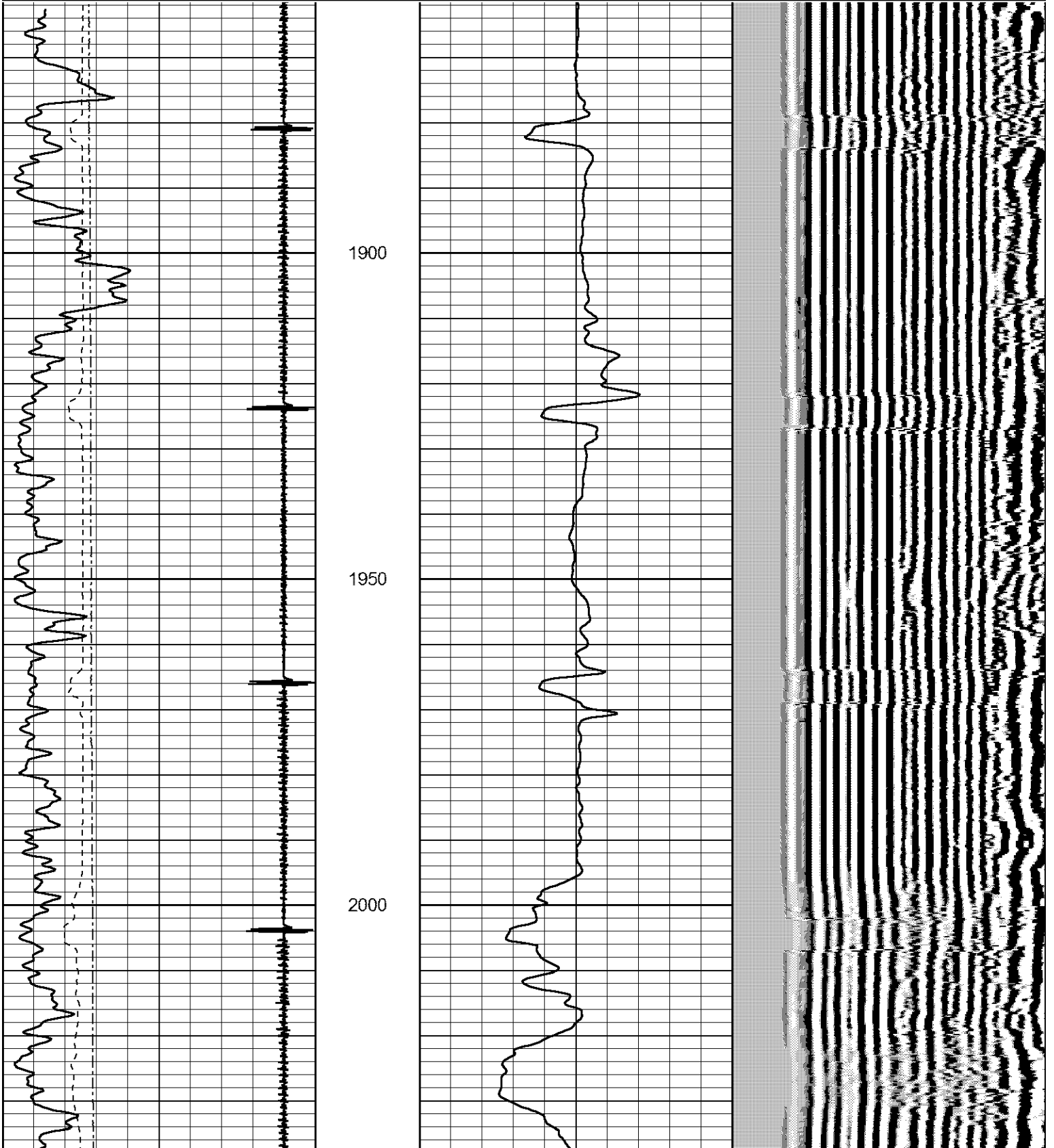
Field Service

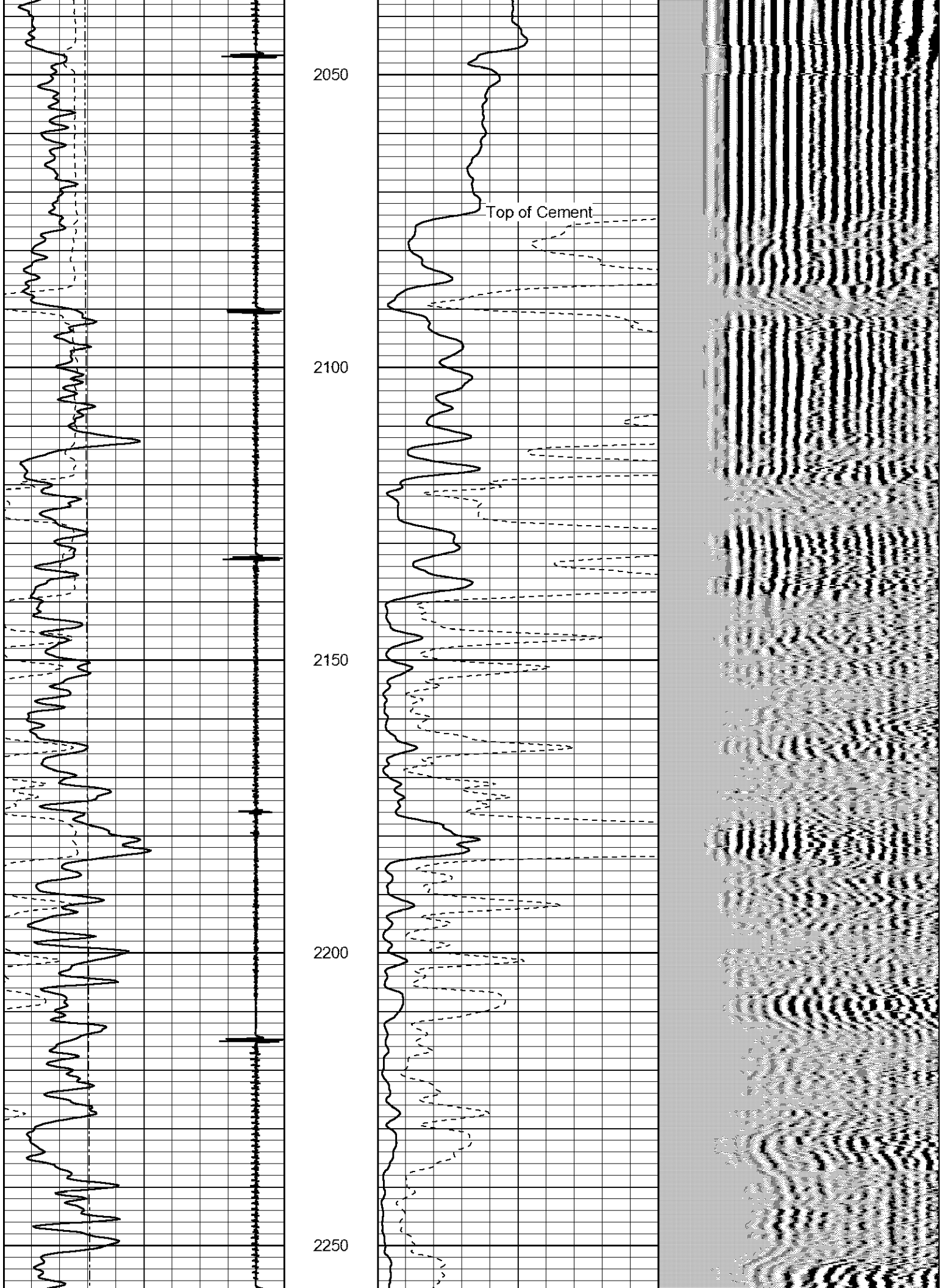
P.O. BOX 438
Haysville, KS 67060

MAIN PASS

Database File: ryan1.db
 Dataset Pathname: pass4
 Presentation Format: cbl02
 Dataset Creation: Thu Mar 22 14:21:57 2018 by Log 7.0 B1
 Charted by: Depth in Feet scaled 1:240

9	Collar Locator	-1	0	Amplitude (mV)	100	200	VARIABLE DENSITY	1200
0	Gamma Ray (GAPI)	150	0	X5 Amplitude (mV)	20			
320	TT3 (usec)	120	-----					
0	LTEN (lb)	2000	-----					





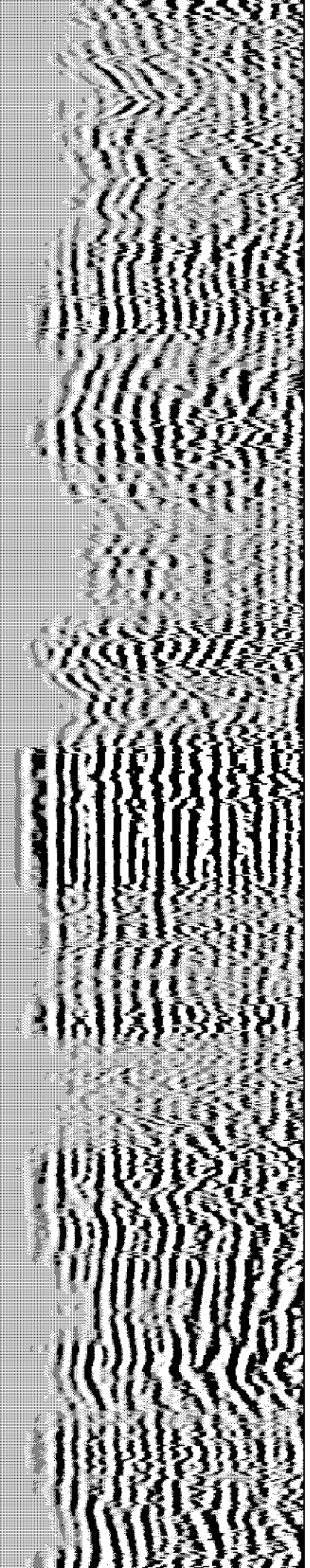
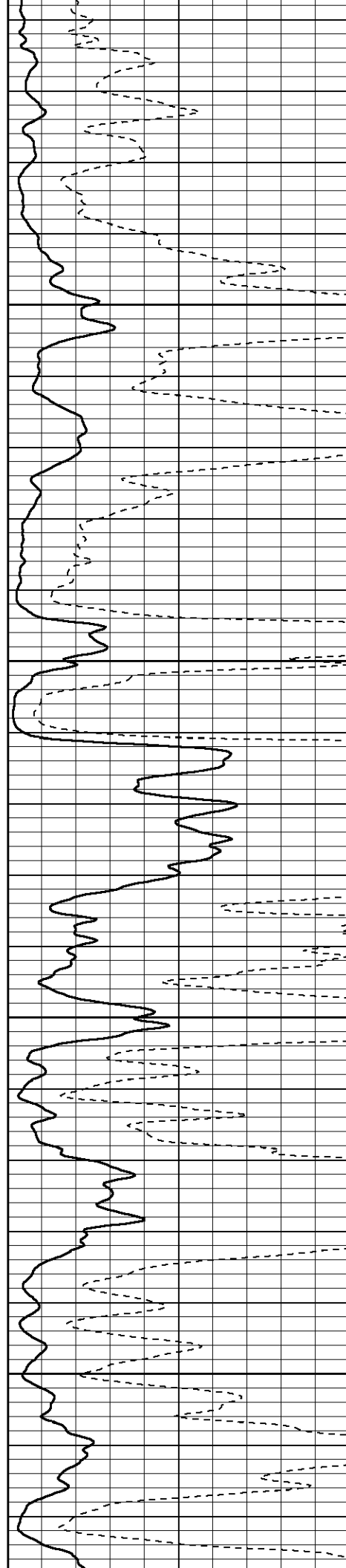


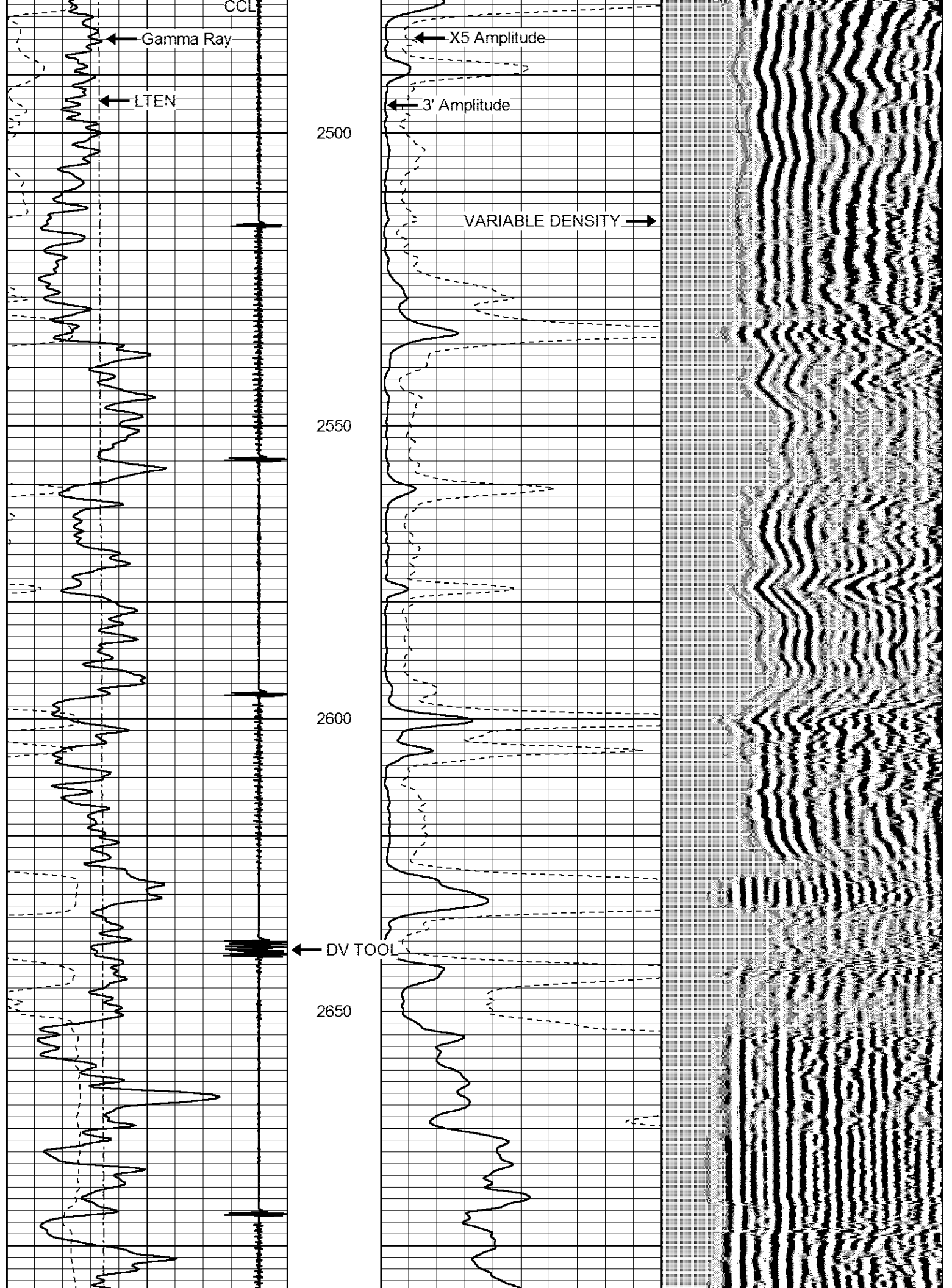
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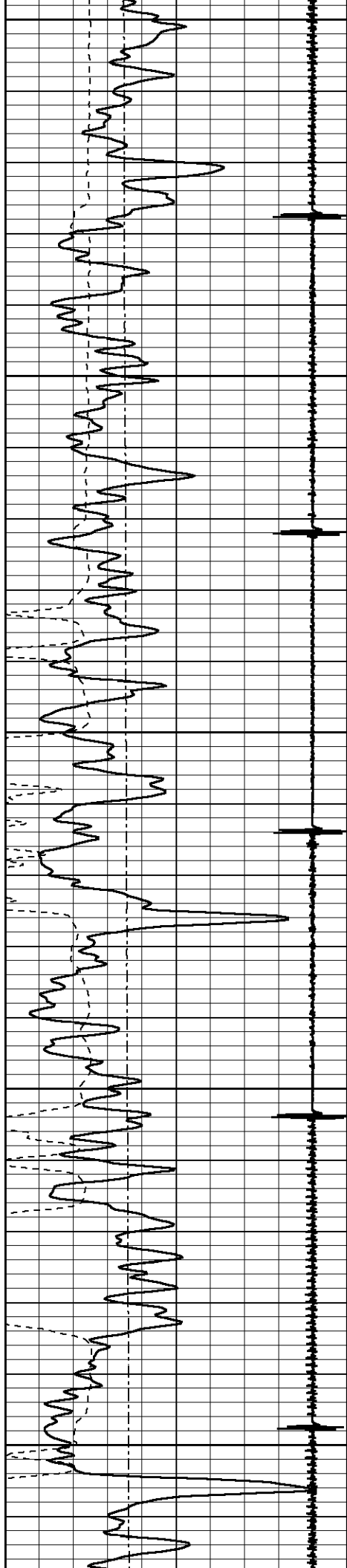
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2400

2450







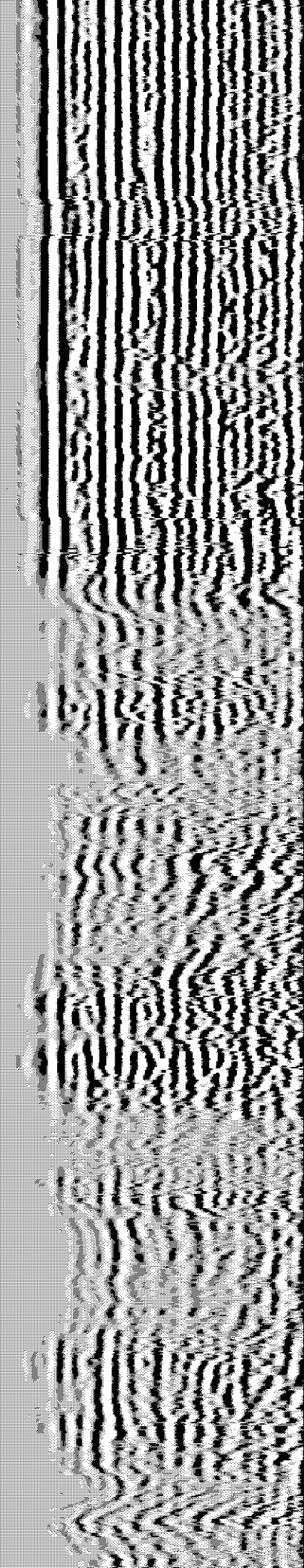
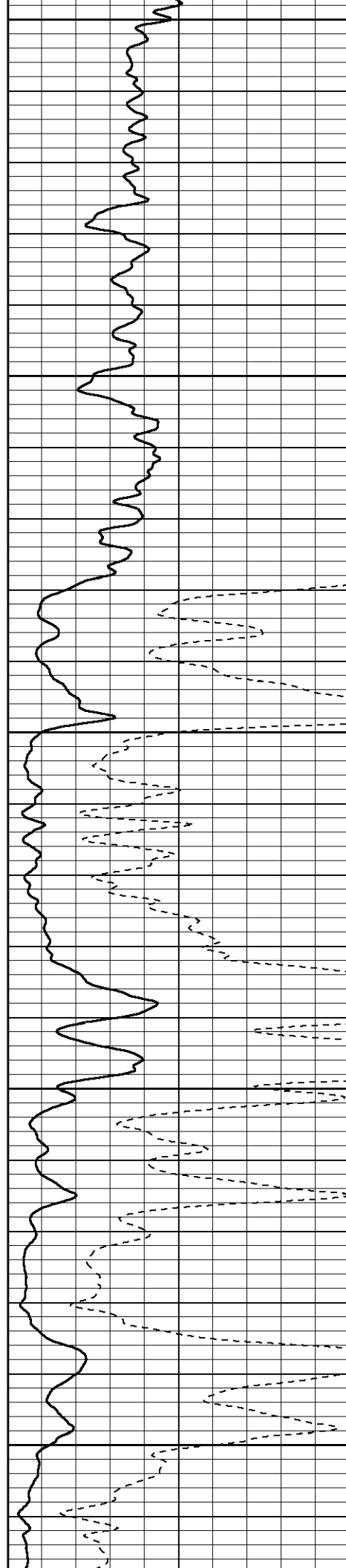
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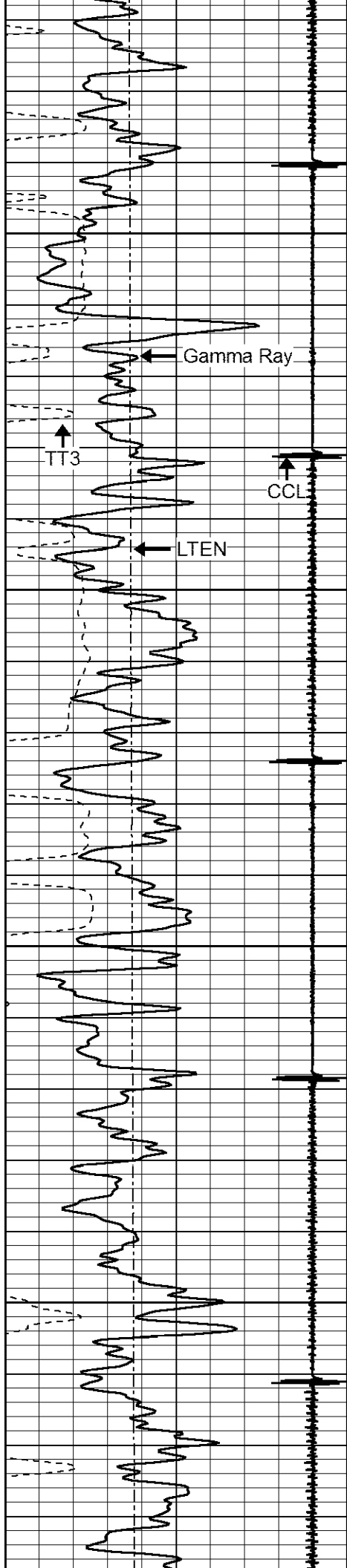
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2800

2850

2900





2950

Gamma Ray

TT3

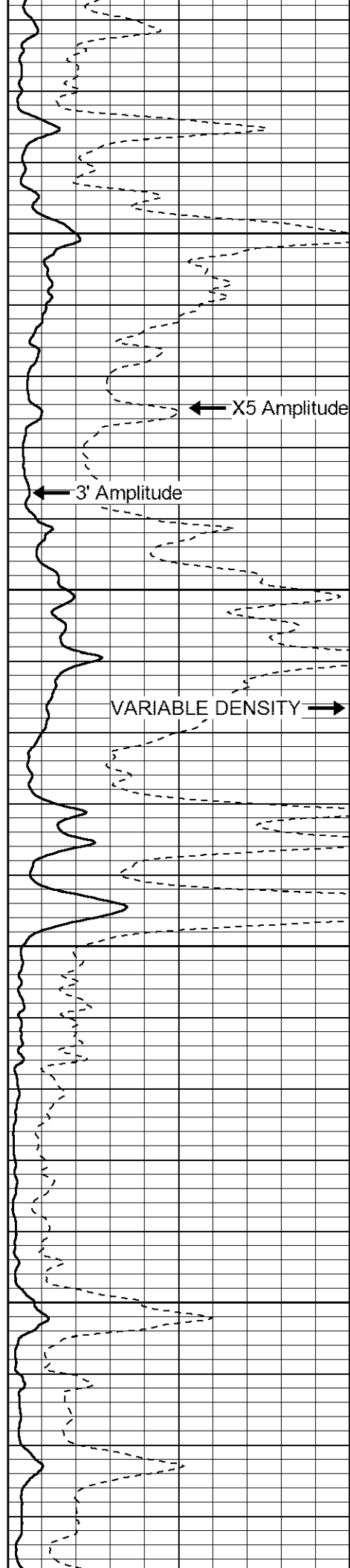
CCL

LTEN

3000

3050

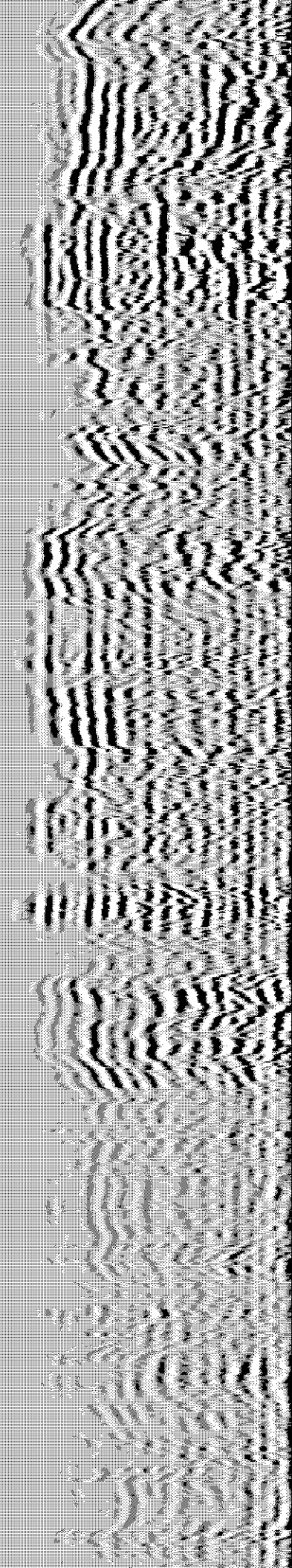
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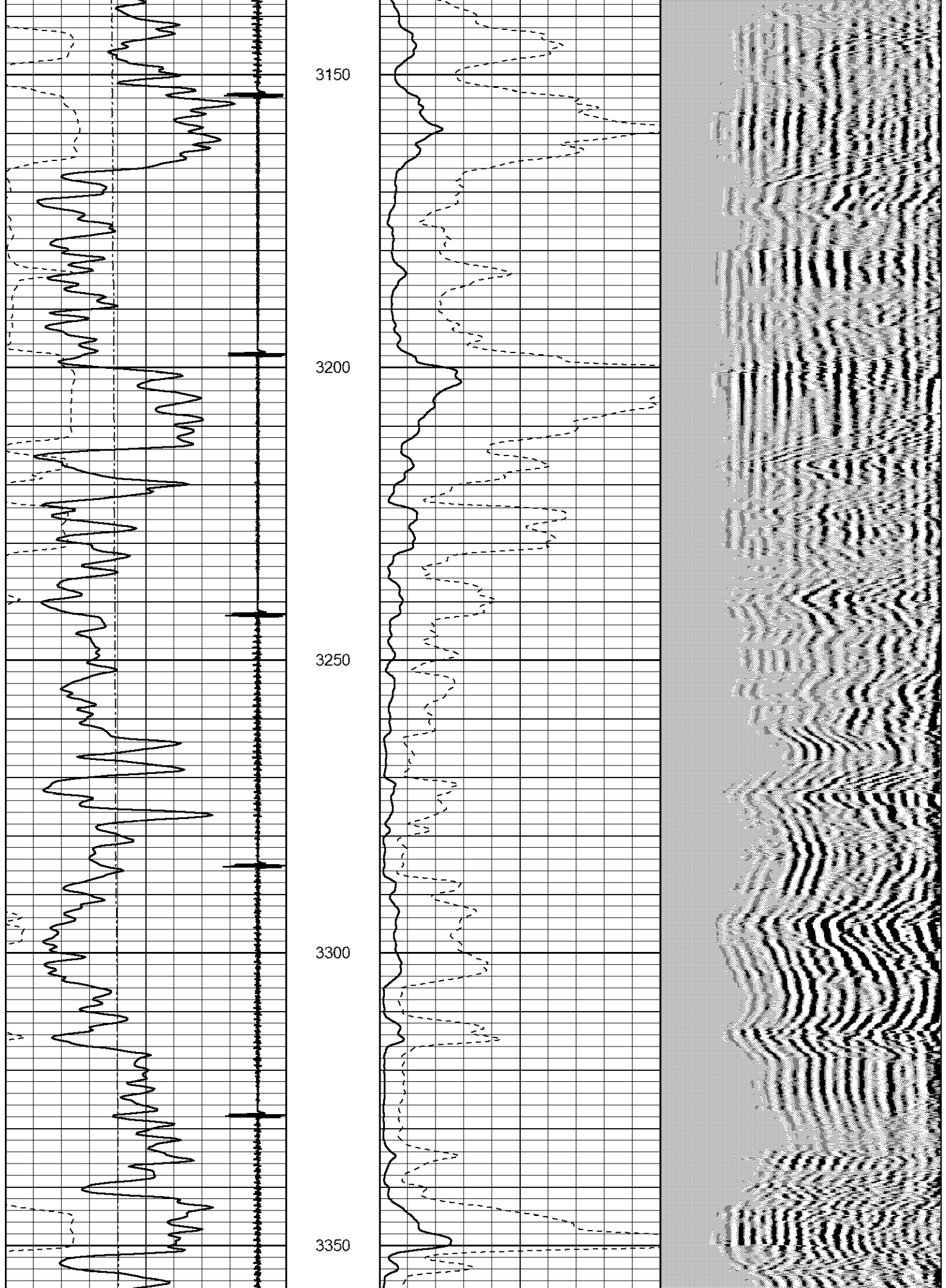


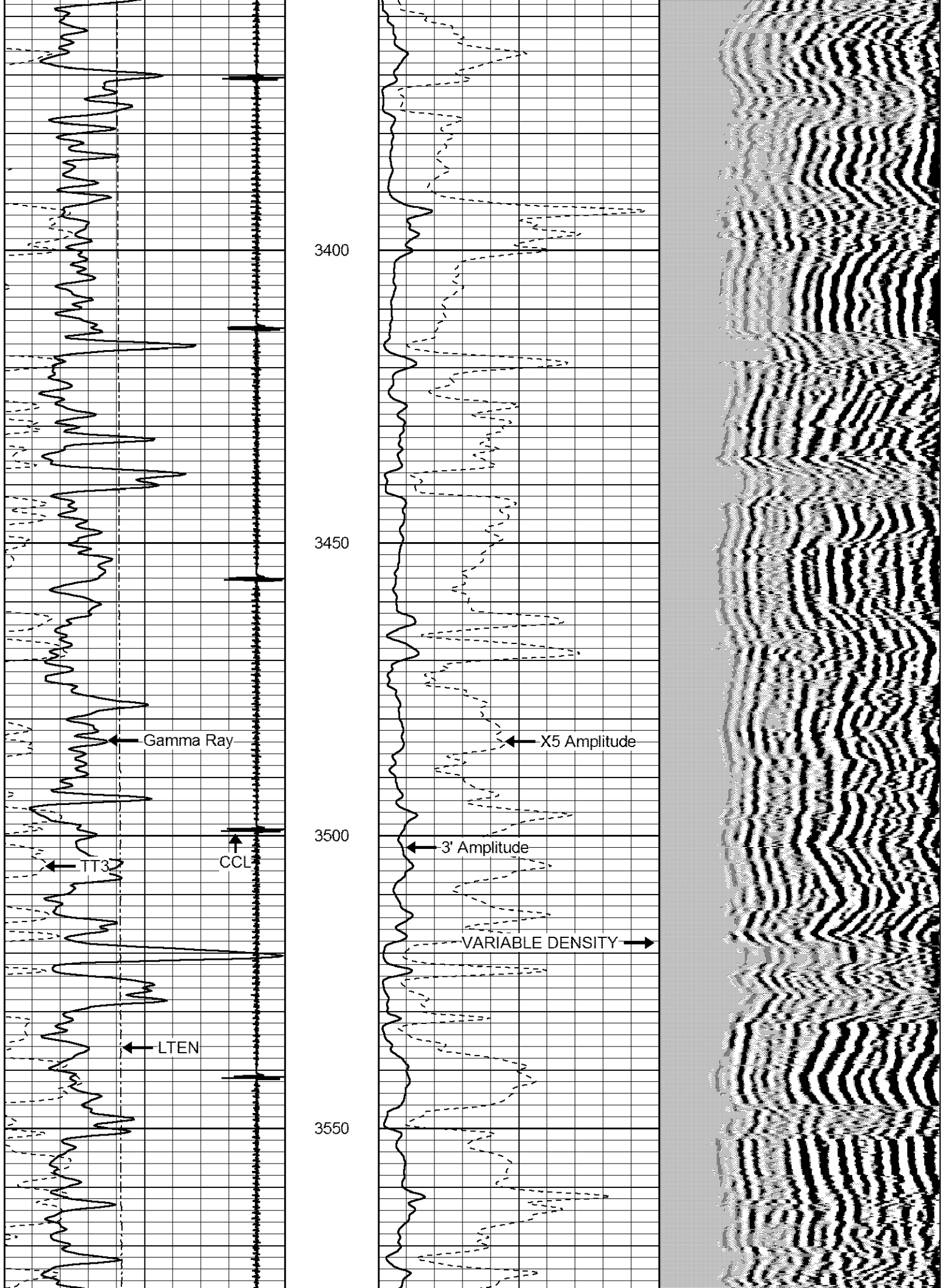
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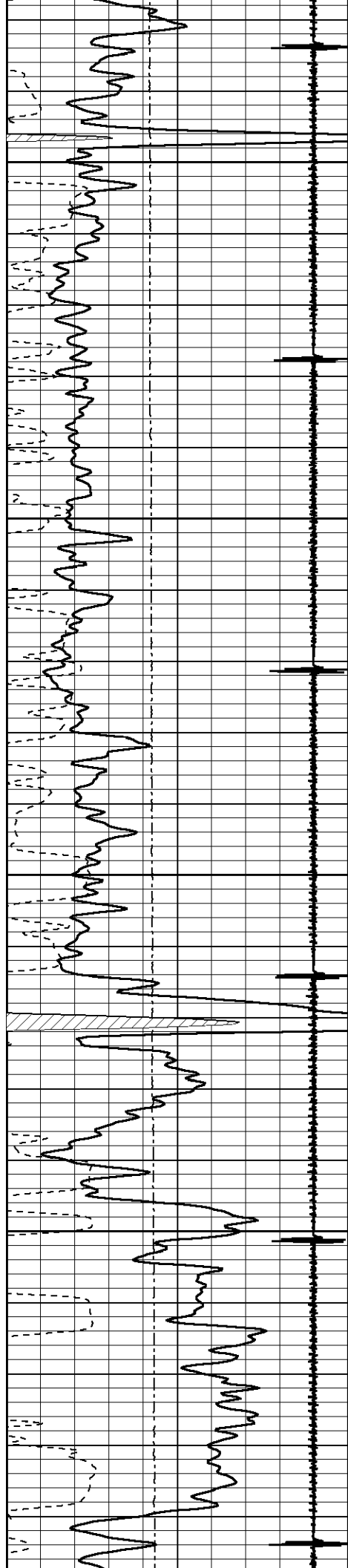
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VARIABLE DENSITY







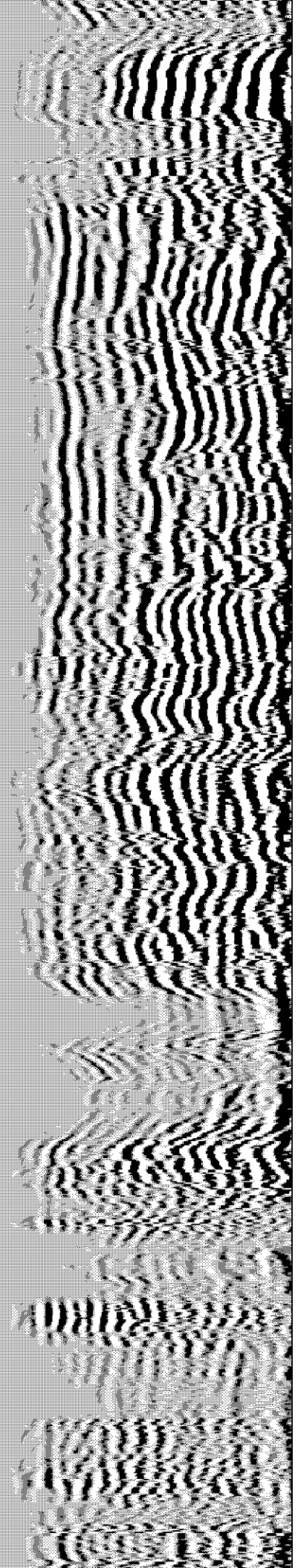
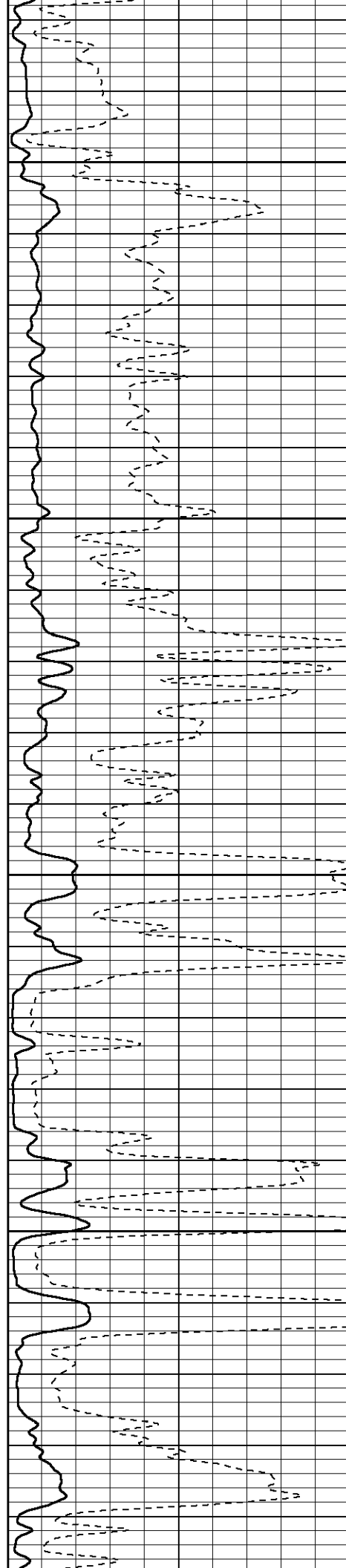


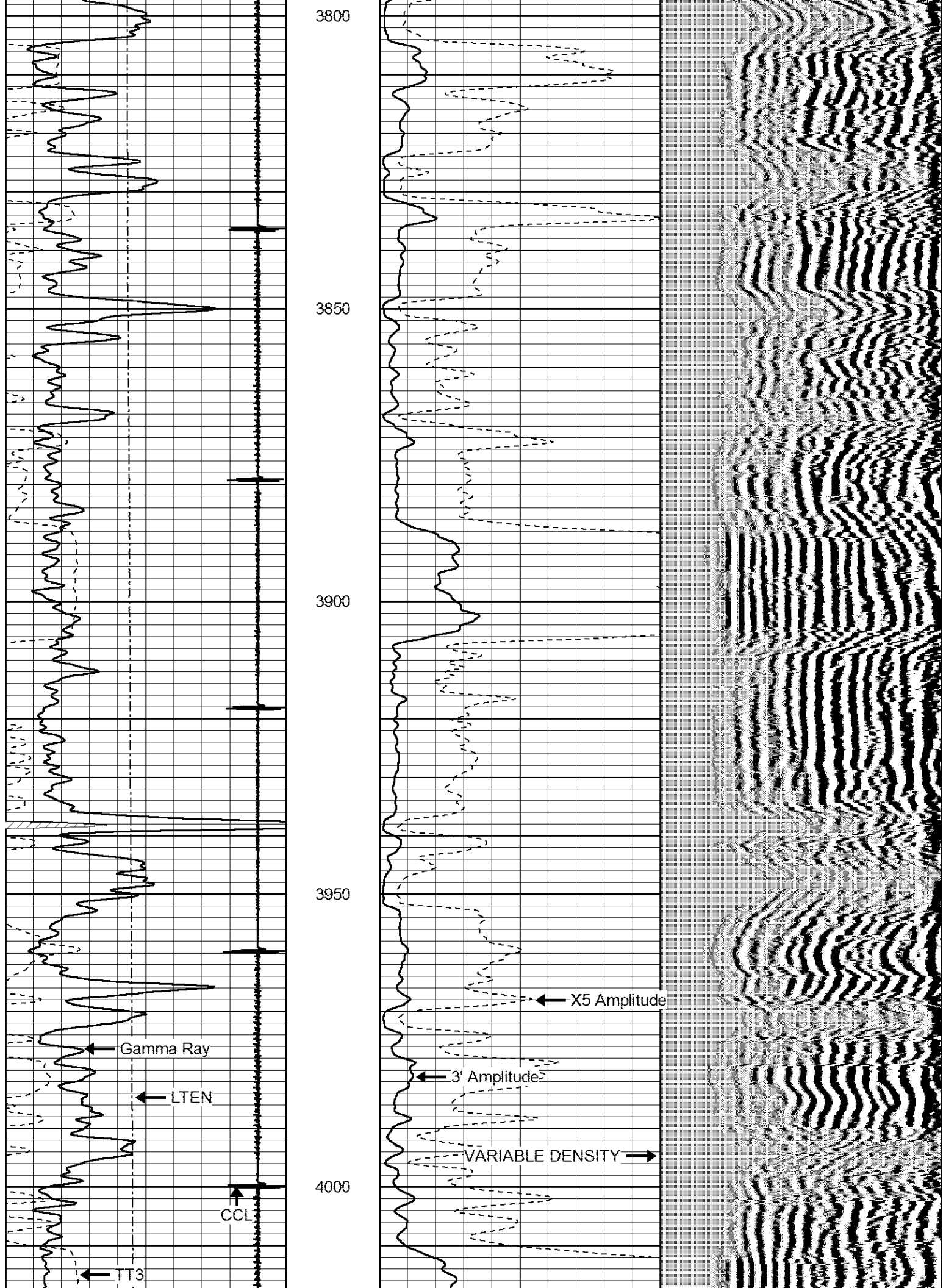
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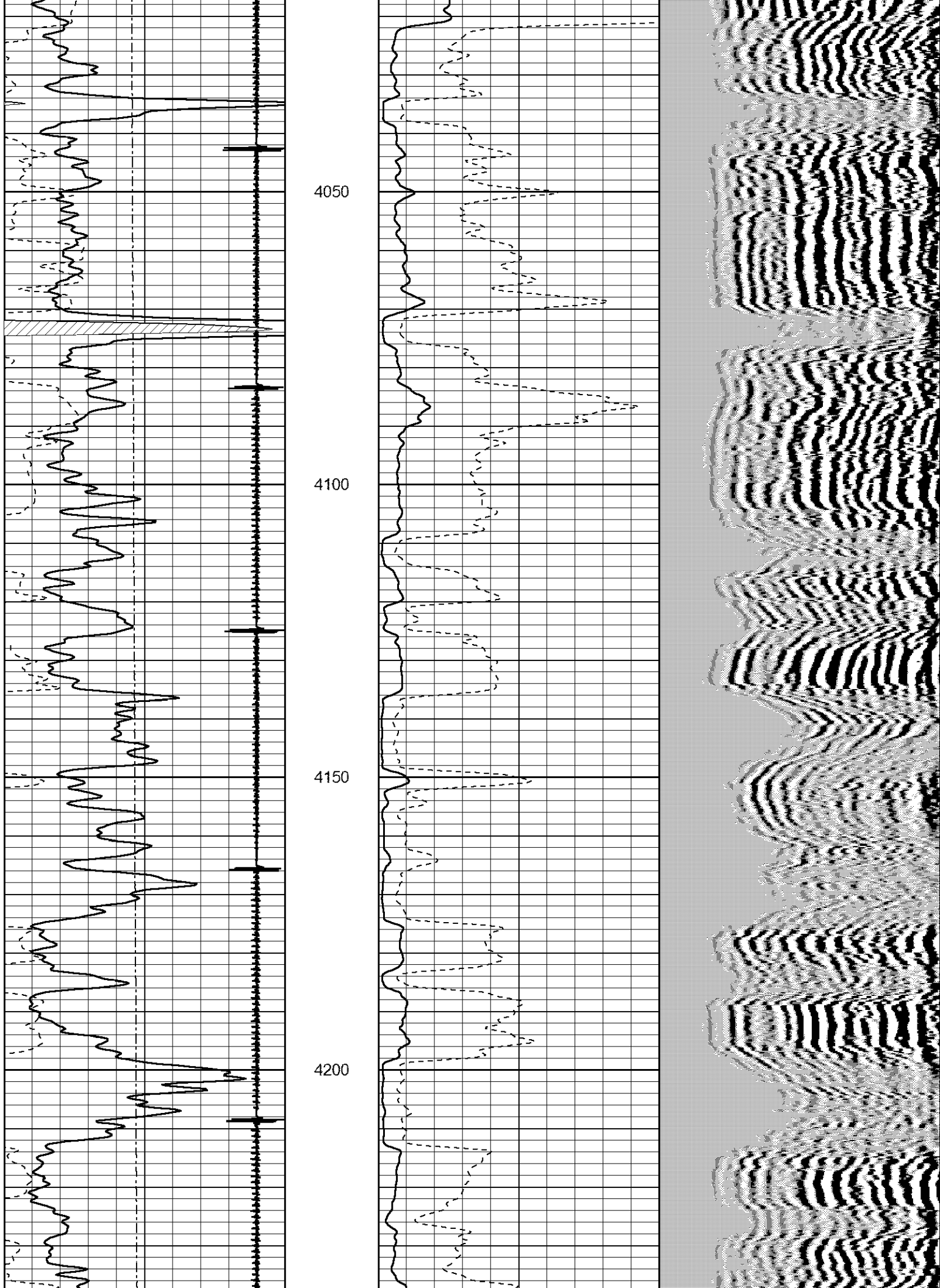
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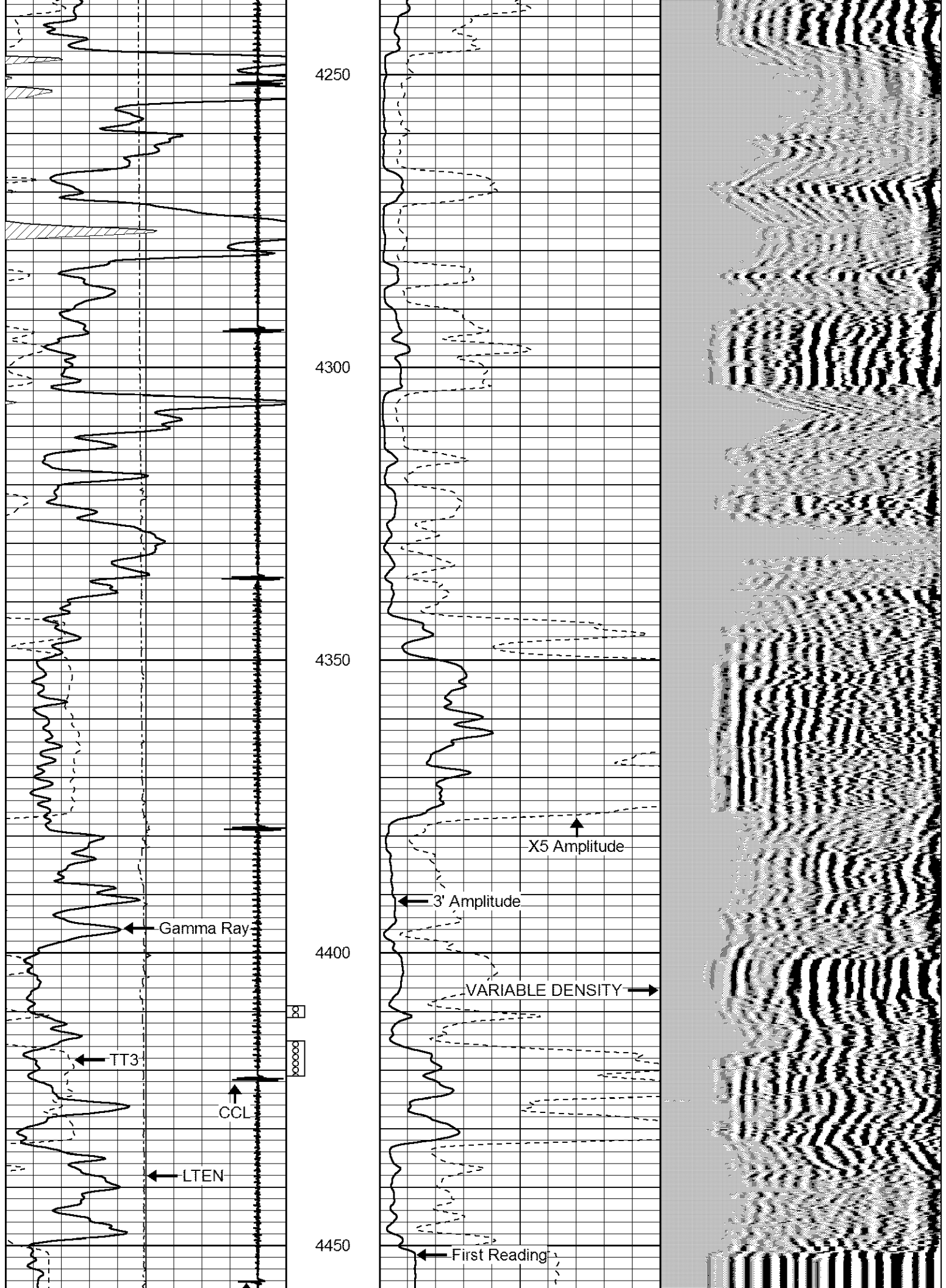
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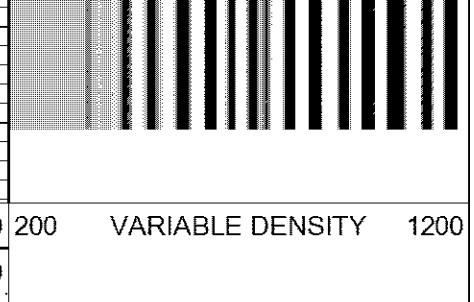
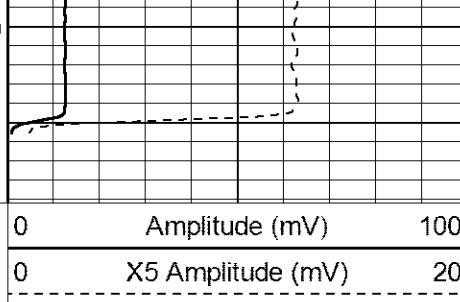
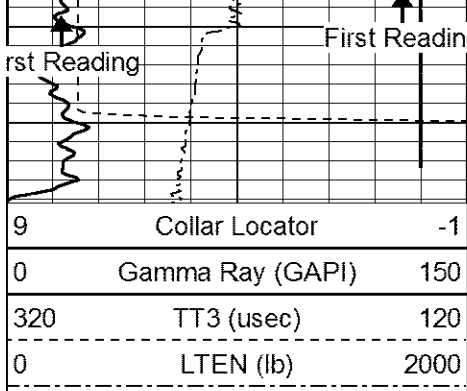
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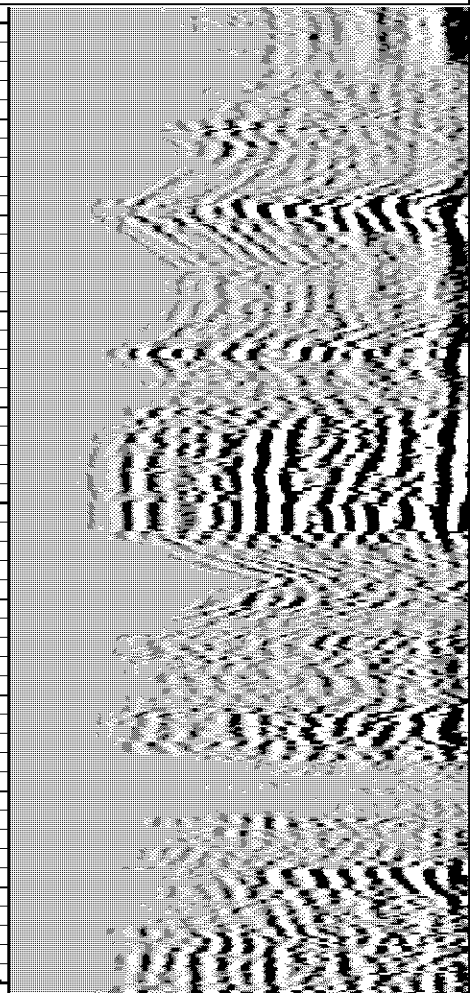
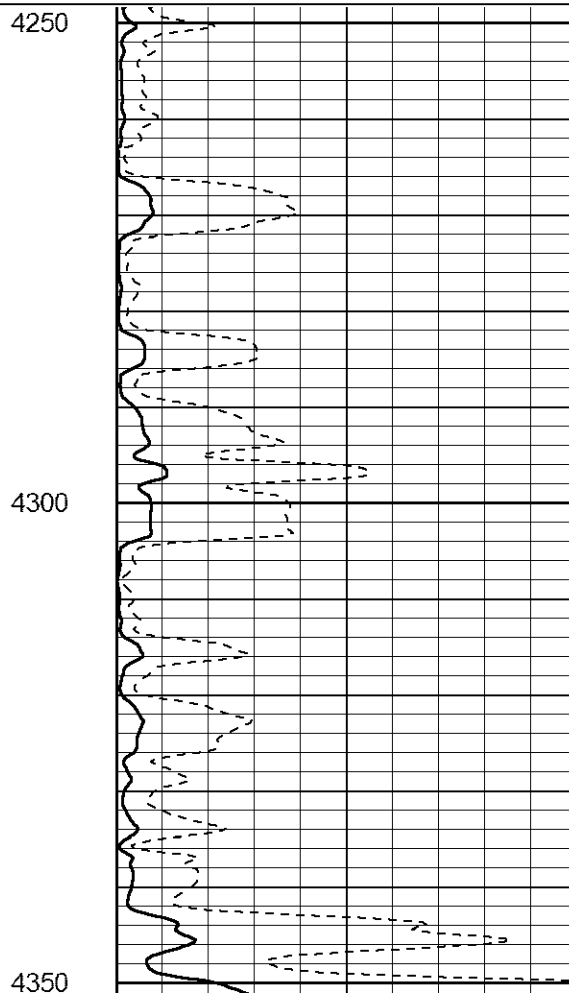
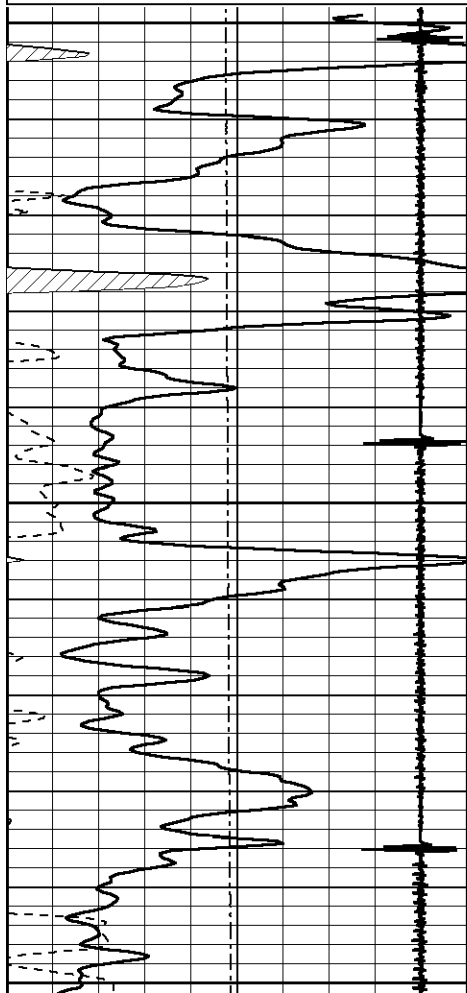
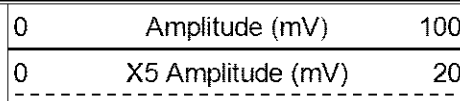
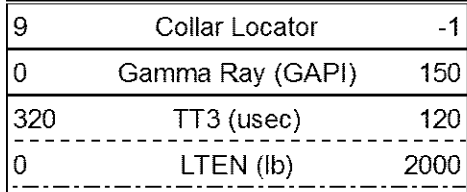


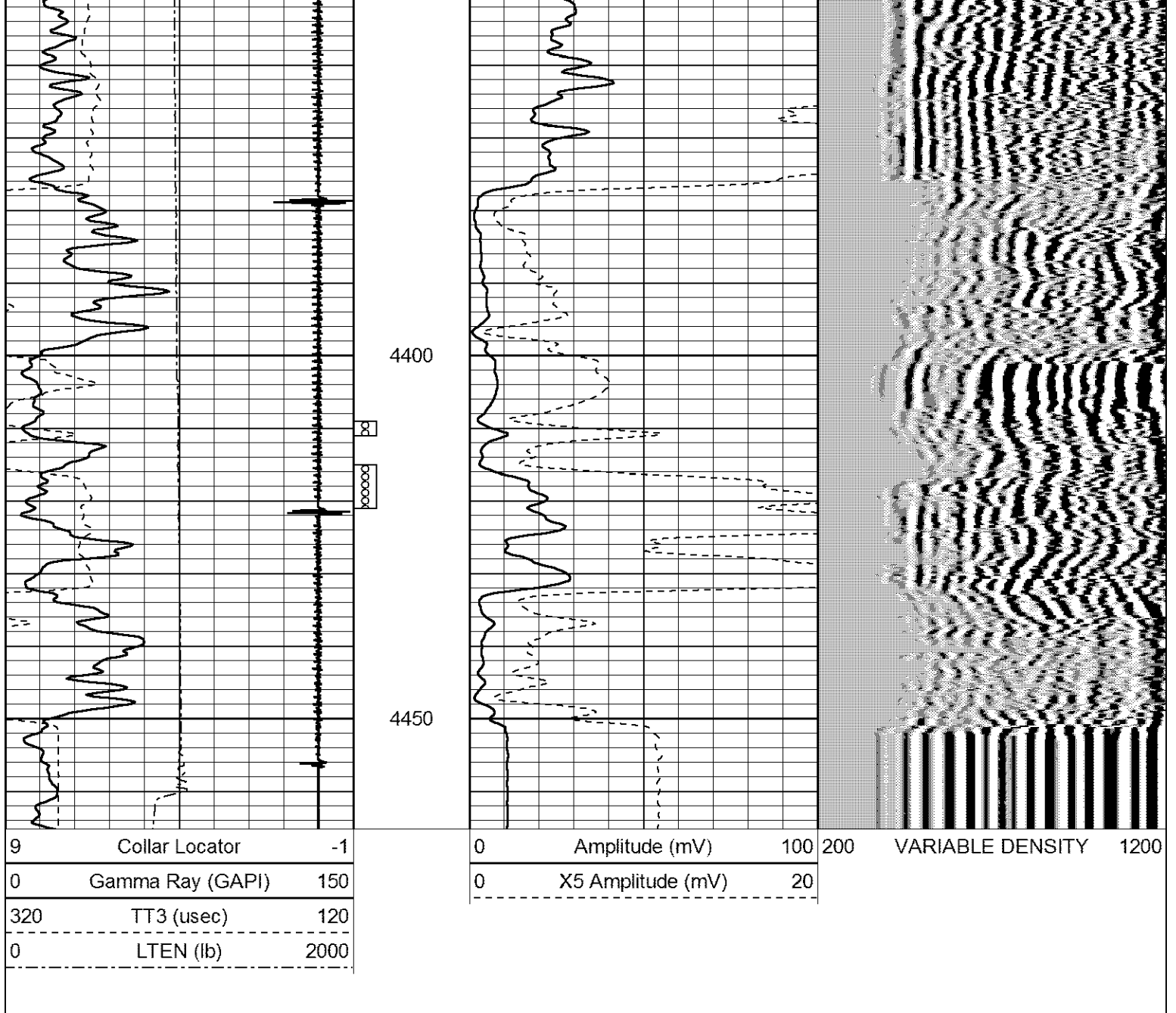


PRESEEL OIL 
 Field Service
 P.O. BOX 438
 Haysville, KS 67060

REPEAT SECTION

Database File: ryan1.db
 Dataset Pathname: pass3
 Presentation Format: cbl02
 Dataset Creation: Thu Mar 22 14:13:40 2018 by Log 7.0 B1
 Charted by: Depth in Feet scaled 1:240





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-Probe (275) probe ccl	1.55	2.75	30.00
CCL	3.69		GR-probegr (progr1) probe gamma ray	3.02	2.75	20.00
GR	0.90					

Dataset: ryan1.db: field/well/run1/pass4
 Total Length: 14.32 ft
 Total Weight: 152.00 lb
 O.D.: 2.75 in