

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

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

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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

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

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

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

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

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Bear Petroleum, LLC
Well Name	STATES 1
Doc ID	1424809

All Electric Logs Run

Micro Log
Dual Induction Log
Compensated Density/Neutron Log
Cement Bond Log
Geo Report

Form	ACO1 - Well Completion
Operator	Bear Petroleum, LLC
Well Name	STATES 1
Doc ID	1424809

Tops

Name	Top	Datum
Herington	2276	-103
Winfield	2334	-161
Towanda	2402	-229
Ft Riley	2448	-275
Heebner	3726	-1553
Toronto	3744	-1571
Lansing	3812	-1639
Pawnee	4228	-2055
Ft Scott	4274	-2101
Cherokee	4288	-2085
Mississippi	4365	-2192
Gilmore City	4420	-2247
Kinderhook Sand	4440	-2267
Viola	4484	-2311



NEW WELL

FIELD ORDER N^o C 45872

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

DATE 6/14/18 20__

IS AUTHORIZED BY: Bear Petroleum (NAME OF CUSTOMER)

Address _____ City _____ State _____

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

Sec. Twp. Range _____ County Atwood 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	45	mileage pump truck	4. ⁰⁰ / ₁₀₀	180.00
2	45	mileage pickup	2. ⁰⁰ / ₁₀₀	90.00
2	1	Pump Charge - 4 Loss strings		1,100.00
2	500	6% 40 gal. 2% sol.	10. ⁷⁵ / ₁₀₀	5,375.00
2	27	Calcium Chloride	30. ⁰⁰ / ₁₀₀	810.00
2	1	8 5/8" Lead Plug		65.00
2	1	8 5/8" Aluminum Baffle		105.00
2	527	Bulk Charge	1. ²⁵ / ₁₀₀	658.75
2		Bulk Truck Miles 22.637 x 45 = 1020.6075 x 1. ¹⁰ / ₁₀₀	1. ¹⁰ / ₁₀₀	1,122.66
		Process License Fee on _____ Gallons		9,506.41
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 Natna W.

Station G.B.

Dick S.
Well Owner, Operator or Agent

Remarks _____

NET 30 DAYS



NEW WELL

FIELD ORDER N^o C 45429

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

DATE 6/21/12 2012

IS AUTHORIZED BY: Beer Petroleum (NAME OF CUSTOMER)
 Address _____ City _____ State _____
 To Treat Well As Follows: Lease States Well No. 1 Customer Order No. _____
 Sec. Twp. Range _____ County Nowata State OK

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	45	mileage pump truck	4. ⁰⁰	180.00
2	45	mileage pickup	2. ⁰⁰	90.00
2	1	Pump Change - Long string		1,600.00
2	175	60/40 por. 2% sol.	10. ⁷⁵	1,881.25
2	900 [#]	Gilsonite	.75	675.00
2	1,000 [#]	Solt	.25	250.00
2	50 [#]	C-41p - Defoamer	3. ⁷⁵	187.50
2	50 [#]	C-12 - Fluid Loss	6. ⁰⁰	300.00
2	100 [#]	C-37 - Friction Reducer	4. ⁰⁰	400.00
2	600 gal.	Mud-Flush	.75	450.00
2	5	5 1/2" Turbo-Centralizers	85. ⁰⁰	425.00
2	1	5 1/2" Basket		155.00
2	1	5 1/2" Flood Shoe w/ auto-fill		355.00
2	1	5 1/2" Latch down plug & baffle		175.00
2	217	Bulk Charge	1. ²⁵	271.25
2		Bulk Truck Miles $8.75 \text{ T} \times 45 \text{ m} = 393.75 \text{ Tm} \times 1.10$	1. ¹⁰	433.13
		Process License Fee on _____ Gallons		7,828.13
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 Netha W.

Station G.D

Dick S.
Well Owner, Operator or Agent

Remarks _____

NET 30 DAYS



TREATMENT REPORT

Acid Stage No. _____

Date 6/21/2018 District GB F.O. No. C45429
 Company Bear Petroleum
 Well Name & No. States #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.

Pump Trucks. No. Used: Std. 365 Sp. _____ Twin _____
 Auxiliary Equipment 360/308
 Personnel Nathan-Mike-Aaron
 Auxiliary Tools _____
 Plugging or Sealing Materials: Type _____
 _____ Gals. _____ lb.

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

Company Representative Dick S. Treater Nathan W.

TIME a.m./p.m.	PRESSURES		Total Fluid Pumped	REMARKS
	Tubing	Casing		
3:00		5.5"		On Location. Rig laying down pipe and preparing to run casing.
				Hole-4549'
				Pipe-4545'
				Baffle-4501' Centralizers-1,3,5,7,9 Basket-5
5:25				Start running casing and float equipment in hole.
				Land pipe and hook up to break circulation with mud pump.
7:45				Circulate on bottom for 45 minutes.
				Pump 600gal of Mud Flush at 4.5bpm-200#
				Plug Rat Hole with 30sk.
				Plug Mouse Hole with 20sk.
				Mix 125sk 60/40poz 2%gel .5%C-37 .25%C-12 .75%C-41p 12% Salt 5#/sk Gilsonite at 16#/gal.
				Wash out pump and lines.
				Displace with 107.1bbls at 6.5bpm-400#
				Plug landed at 1000# Pressure up to 1500# Released pressure.
9:45				Float Held.
				Thank You! Nathan W.

LITHOLOGY STRIP LOG

WellSight Systems

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

Well Name: States #1
 Well Id:
 Location: 1100' FSL & 1320' FWL Sec 10 T22S-R20W
 License Number:
 Spud Date: 6/13/2018
 Surface Coordinates:
 Region:
 Drilling Completed:
 Bottom Hole Coordinates:
 Ground Elevation (ft): 2167
 Logged Interval (ft): 2120 To: K.B. Elevation (ft): 2173
 Formation:
 Type of Drilling Fluid: Total Depth (ft):

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

OPERATOR

Company: Bear Petroleum
 Address:

GEOLOGIST

Name: Rod Andersen
 Company: Kansas Petroleum Resources LLC
 Address:

ROCK TYPES

 Anhy	 Coal	 Lmst	 Shcol
 Bent	 Congl	 Meta	 Shgy
 Brec	 Dol	 Mrlst	 Sltst
 Cht	 Gyp	 Salt	 Ss
 Clyst	 Igne	 Shale	 Till

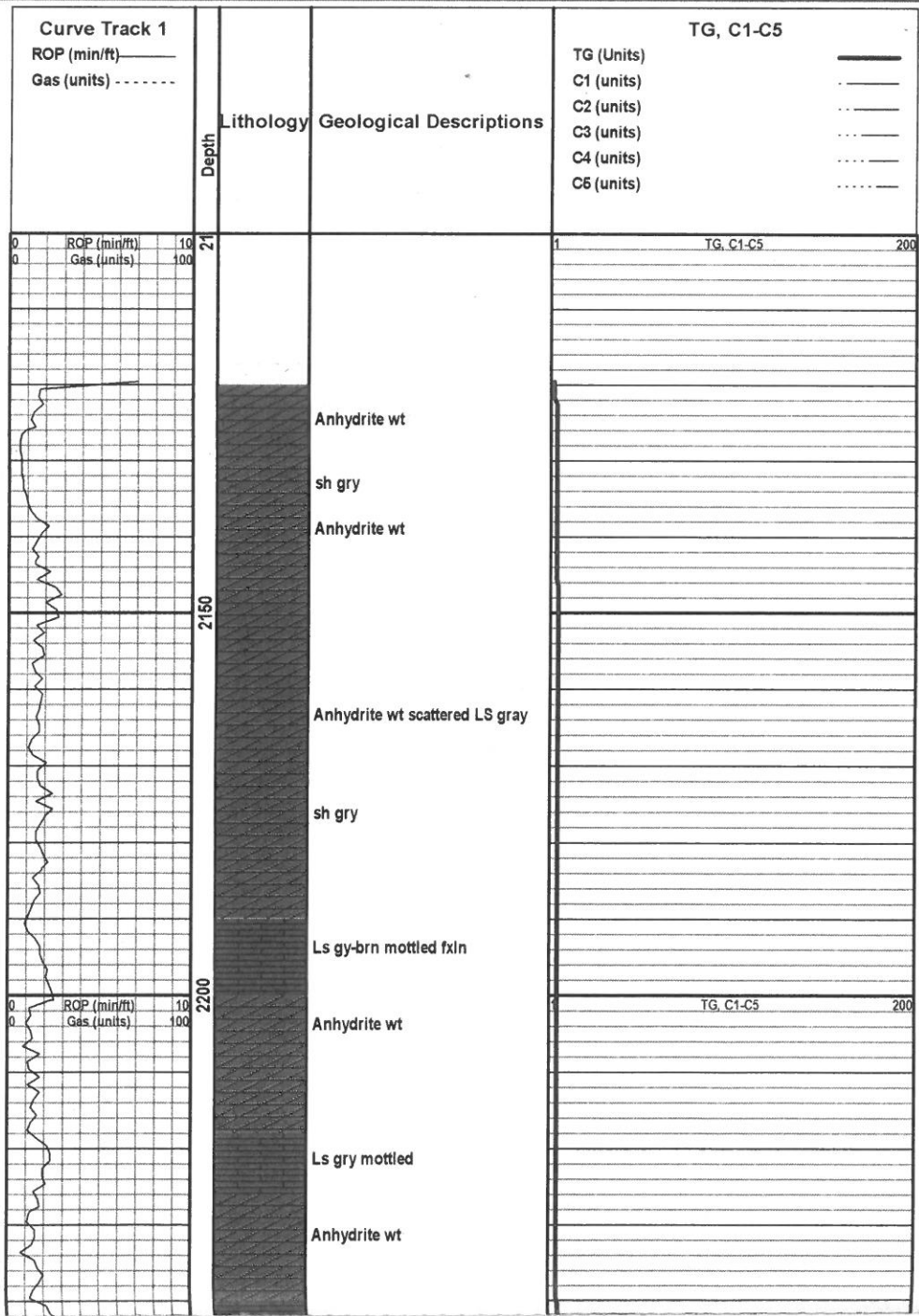
ACCESSORIES

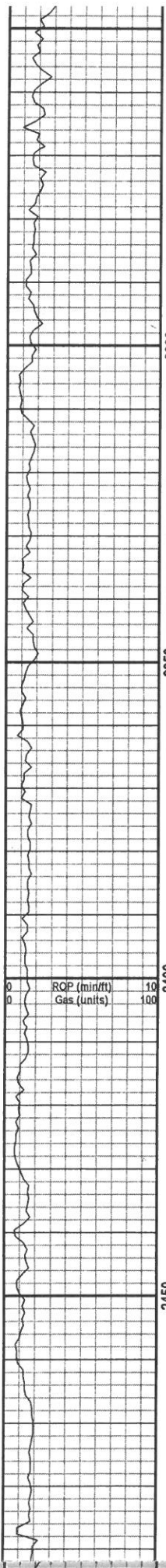
MINERAL	 Minxl	 Crin	 Gyp
 Anhy	 Nodule	 Echin	 Ls
 Arggrn	 Phos	 Fish	 Mrst
 Arg	 Pyr	 Foram	 Sltstrg
 Bent	 Salt	 Fossil	 Ssstrg
 Bit	 Sandy	 Gastro	
 Brecfrag	 Silt	 Oolite	TEXTURE
 Calc	 Sil	 Ostra	 Boundst
 Carb	 Sulphur	 Pelec	 Chalky
 Chtdk	 Tuff	 Pellet	 Cryxln

<ul style="list-style-type: none"> □ D01 □ Feldspar □ Ferrpel □ Ferr □ Glau □ Gyp □ Hvymin □ Kaol □ Marl 	FUSSIL <ul style="list-style-type: none"> □ Algae □ Amph □ Belm □ Bioclst □ Brach □ Bryozoa □ Cephal □ Coral 	<ul style="list-style-type: none"> □ Plant □ Strom STRINGER <ul style="list-style-type: none"> ▬ Anhy ▬ Arg ▬ Bent ▬ Coal ▬ Dol 	<ul style="list-style-type: none"> □ Finexin □ Grainst □ Lithogr □ Microxln □ Mudst □ Packst □ Wackest
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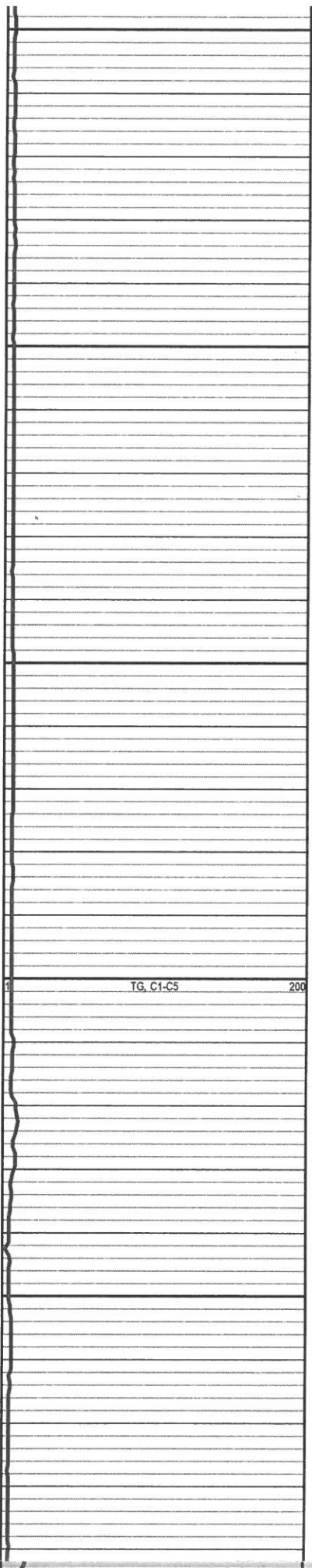
OTHER SYMBOLS

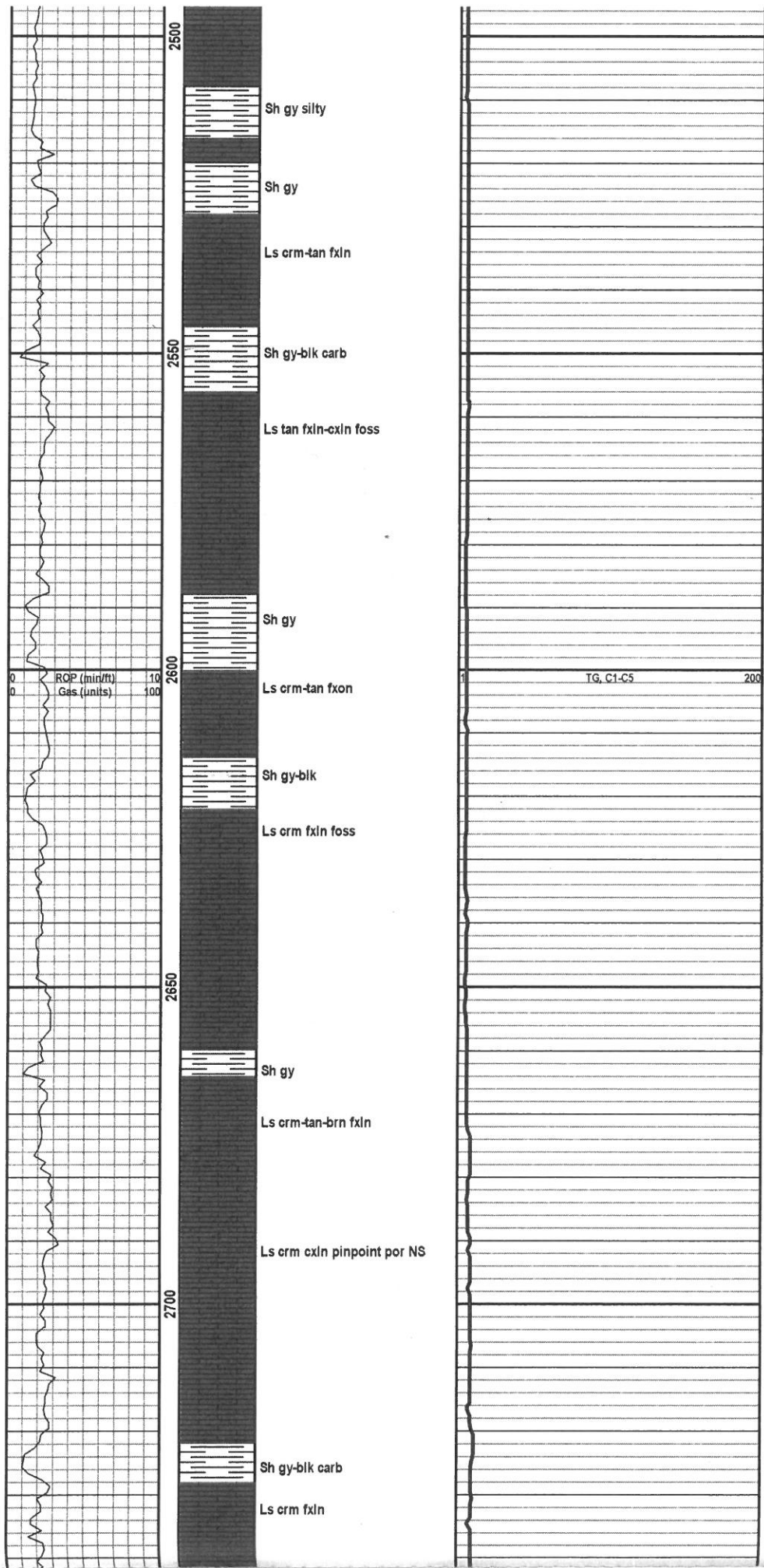
POROSITY <ul style="list-style-type: none"> □ Earthy □ Fenest □ Fracture □ Inter □ Moldic □ Organic □ Pinpoint □ Vuggy 	SORTING <ul style="list-style-type: none"> □ Well □ Moderate □ Poor 	<ul style="list-style-type: none"> □ Angular OIL SHOW <ul style="list-style-type: none"> □ Even □ Spotted □ Ques □ Dead 	INTERVAL <ul style="list-style-type: none"> □ Core □ Dst
	ROUNDING <ul style="list-style-type: none"> □ Rounded □ Subrnd □ Subang 		EVENT <ul style="list-style-type: none"> □ Rft □ Sidewall

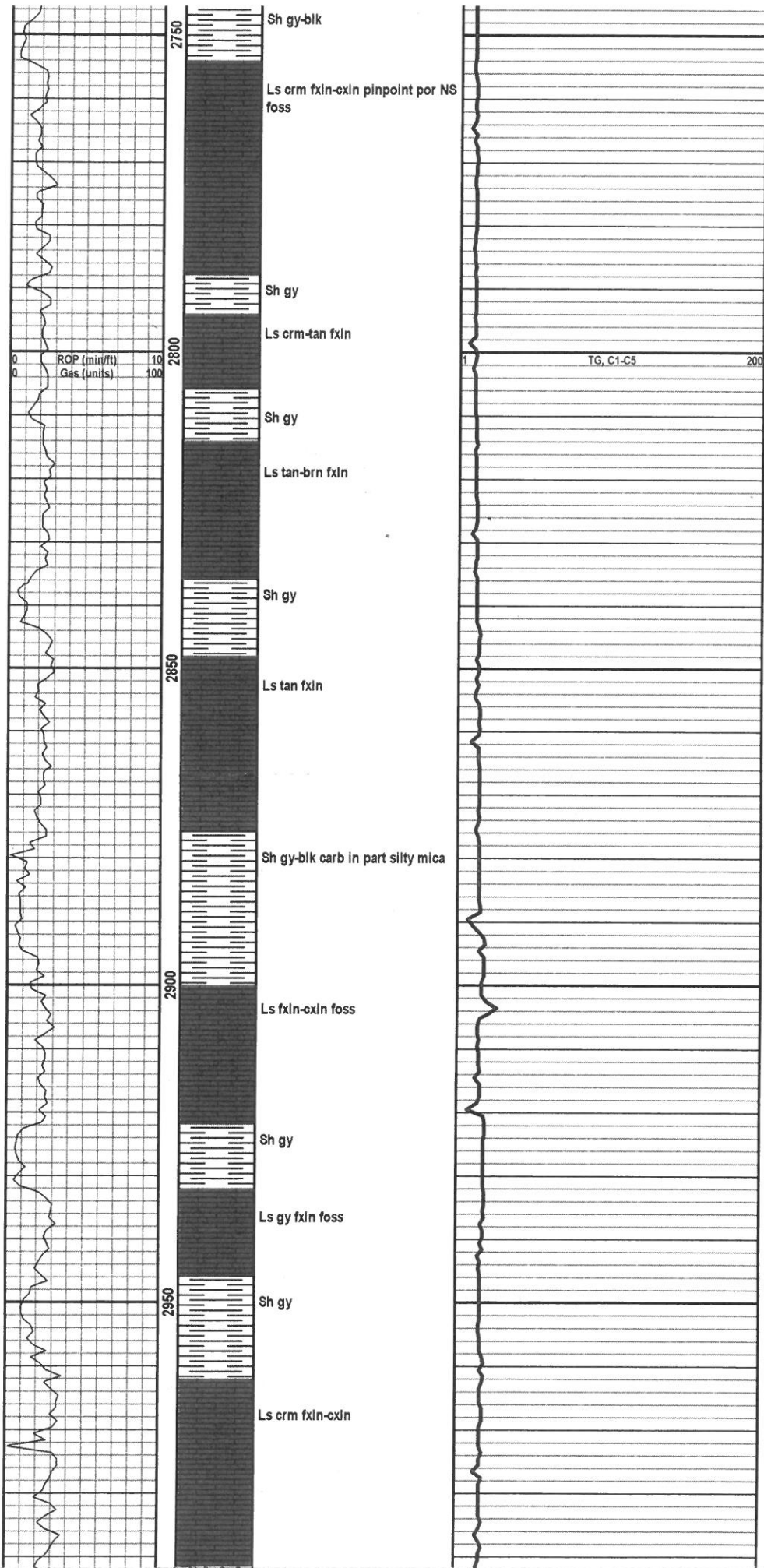


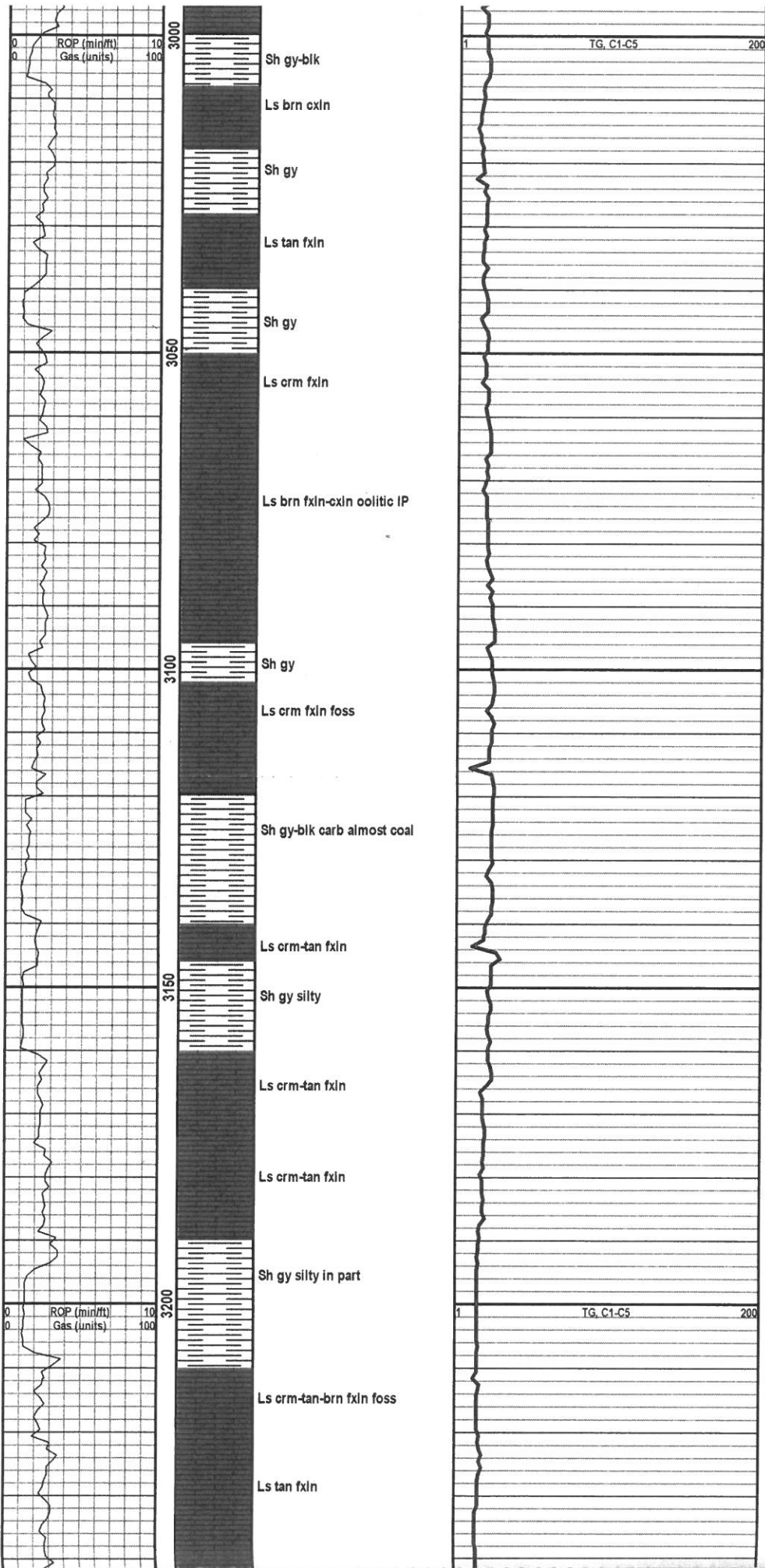


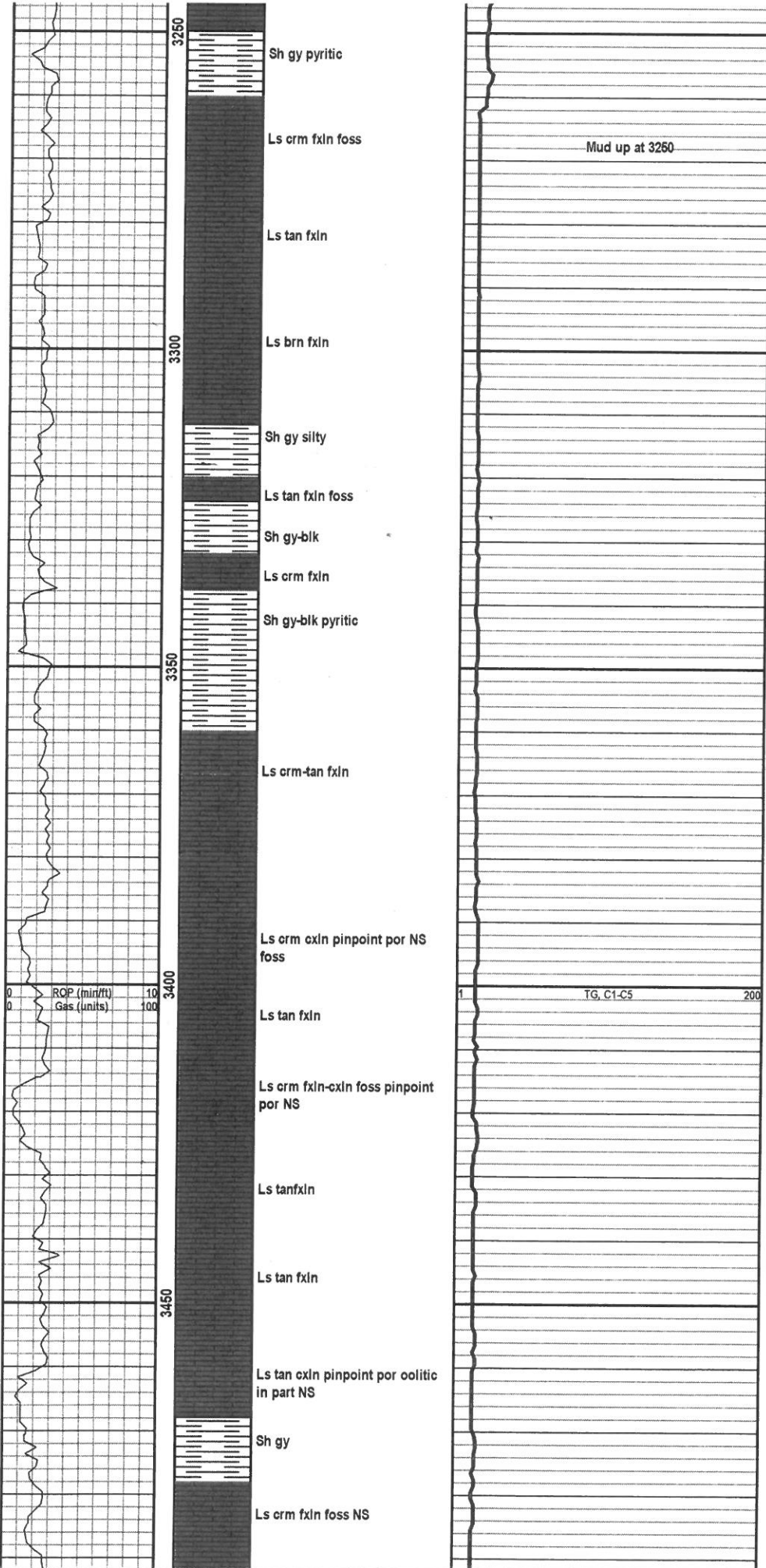
Ls gy fxln
 Anhydrite wt
Herrington 2276 -103
 Dol brn sucrosic NS slight gas kick
 Sh gy fissle
 Sh gy
Winfield 2334 -161
 Dol brn-gy sucrosic NS
 Dol brn suc. limy
 Dol brn suc
 Sh gy scattered
Towanda 2402 -229
 Dol gy sucrisic limy NS 5 unit gas kick at 2420
 Sh gy
Ft. Riley 2448 -275
 Ls erm cxln pinpoint porosity slight gas kick
 Ls erm-tan cxln-fxln NS
 Ls erm-tan fxln NS

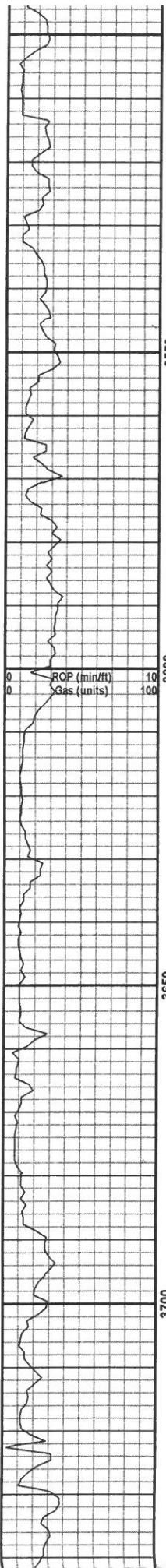












3500
Ls crm cxln pinpoint por oolitic
in part slight blk stain NFO

Sh blk carb

Ls tan fxln pinpoint por NS

Ls tan fxln

3650
Ls crm cxln pinpoint to vuggy
por NS

Ls brn cxln pinpoint por NS

Sh gy silty

3600
Sh blk carb

Ls crm cxln pinpoint por NS

Ls tan cxln foss NS

3650
Ls crm cxln pinpoint por NS

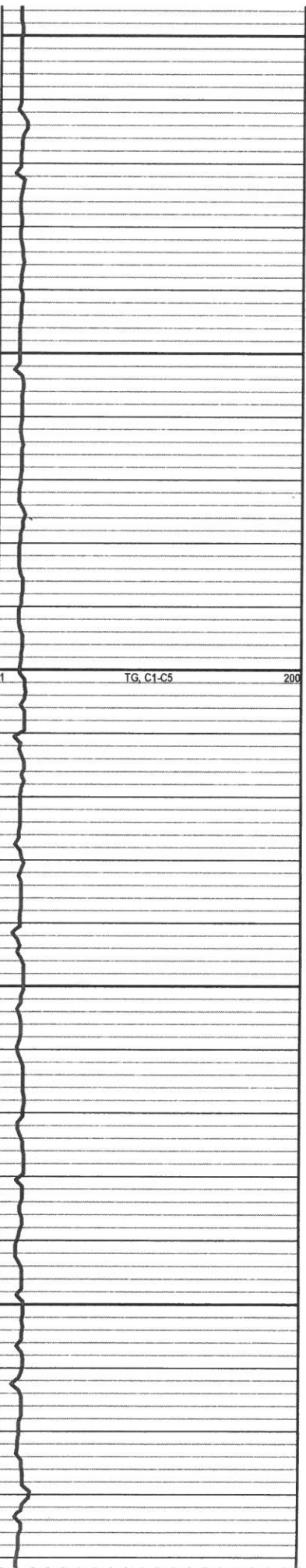
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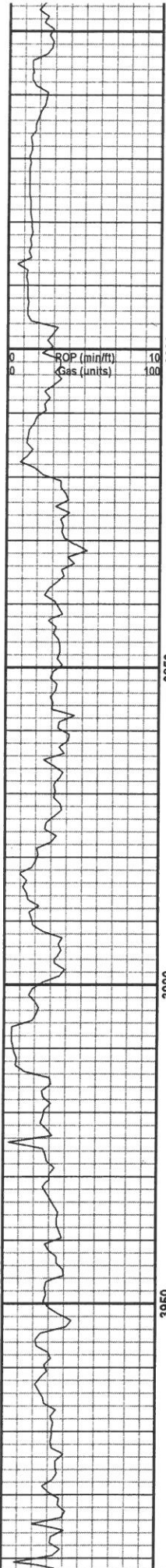
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Heebner 3726-1553

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Lansing 3812 -1639

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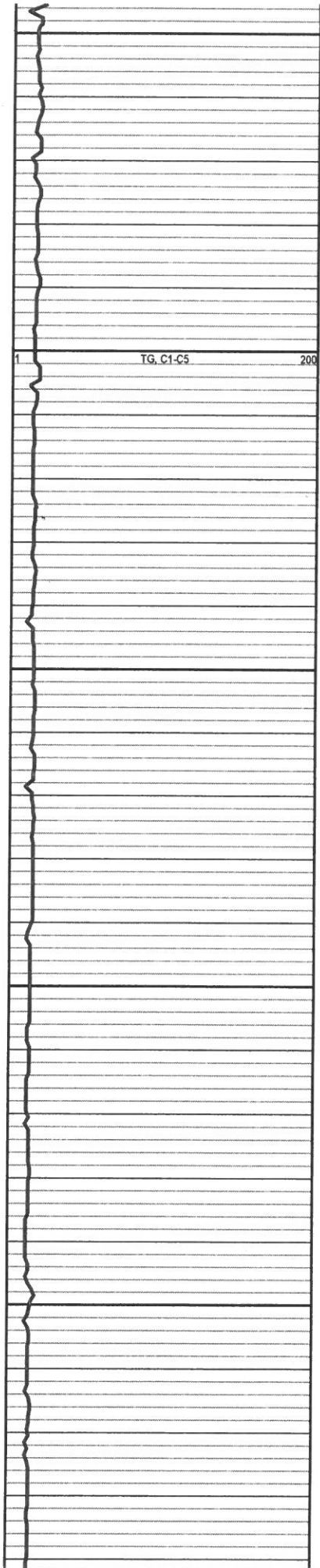
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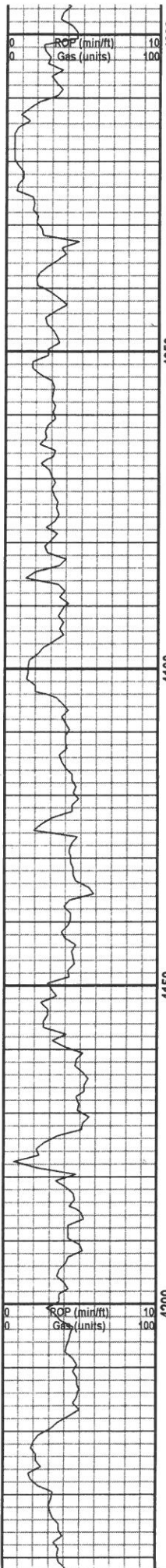
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Sh gy silty



TG, C1-C5

200



Ls crm cxln oolitic

4050

4100

4150

4200

Sh gry blk carb IP

Ls crm fxon

Sh gry - blk carb IP

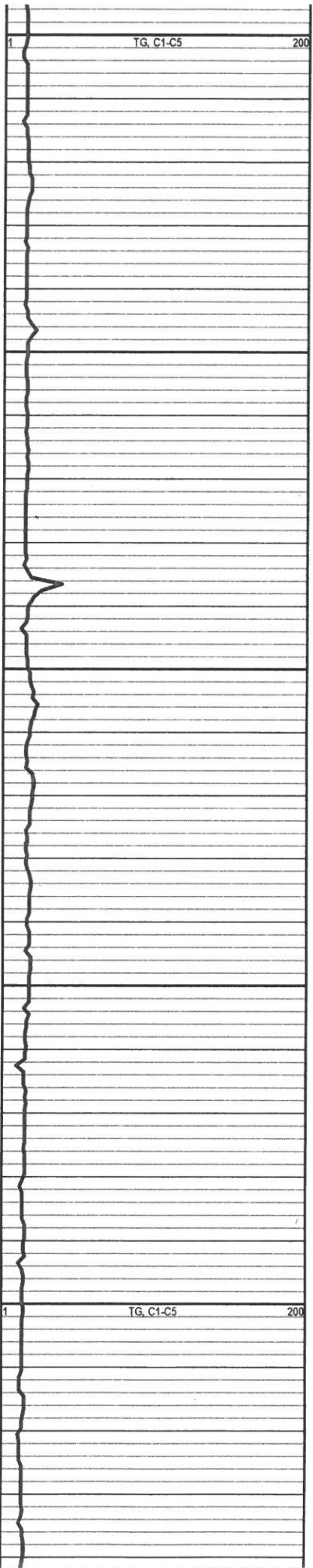
Ls crm fxln

Ls tan fxln foss

Ls crm fxln foss

Sh gy

Pawnee 4228 -2055
Ls tan fxln-cxln foss

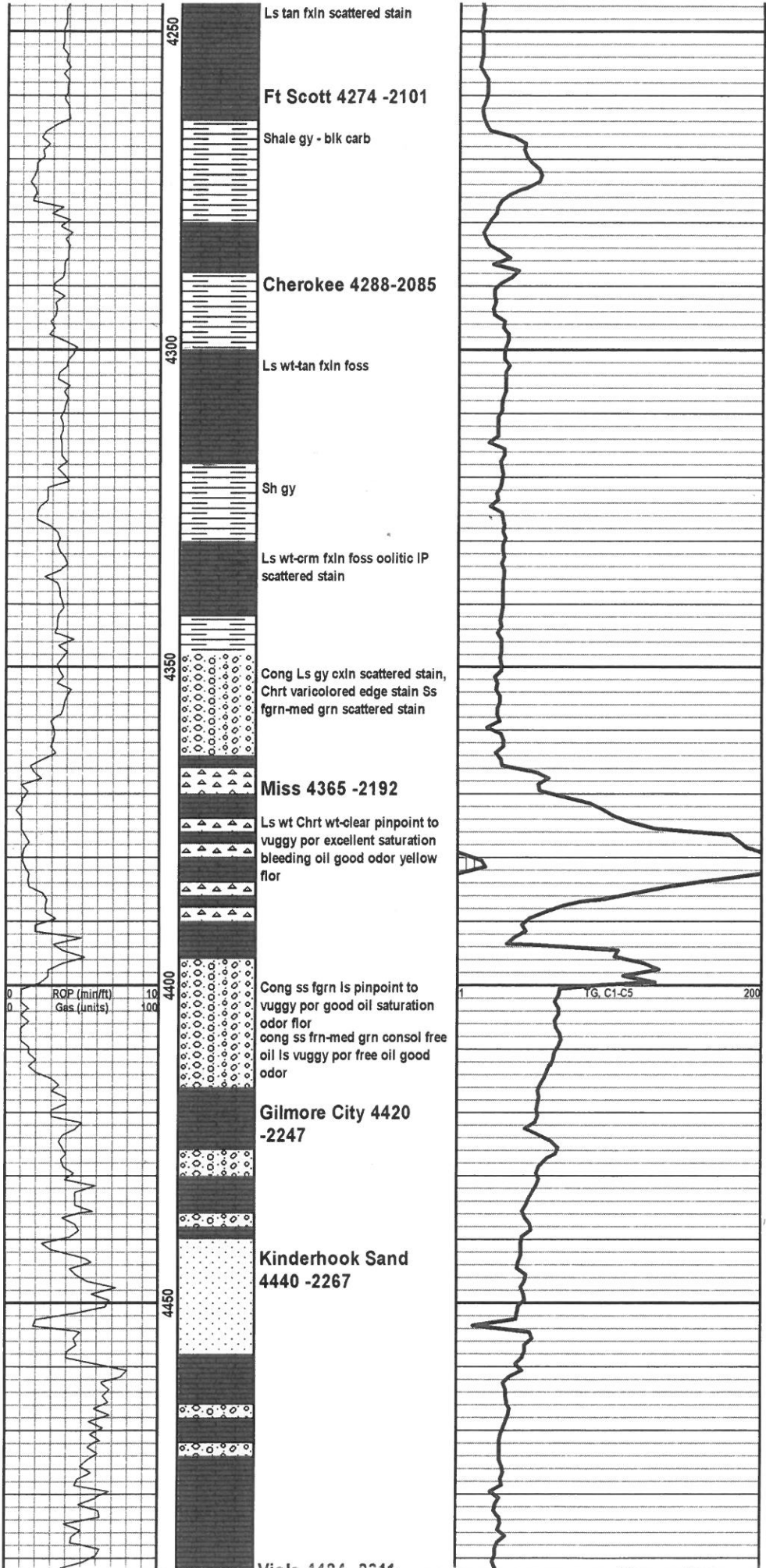


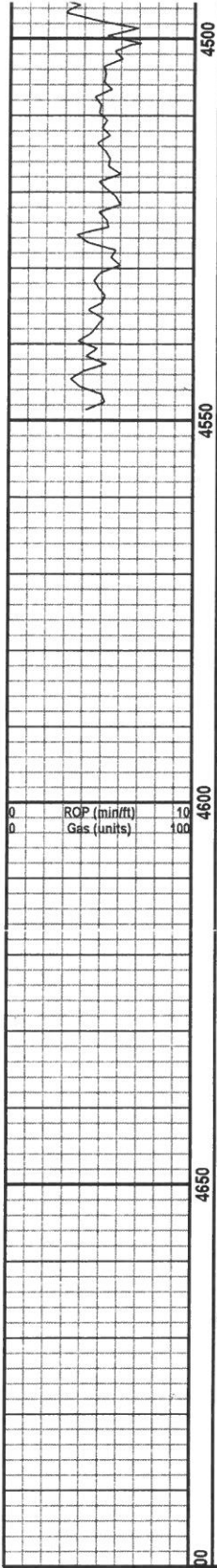
TG, C1-C5

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TG, C1-C5

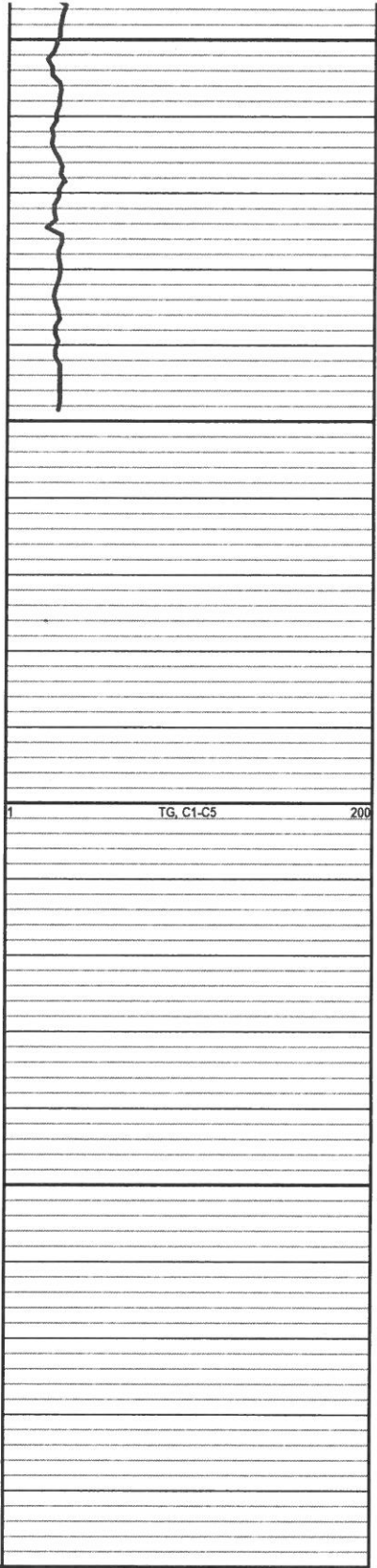
200





Ls crm-wt fxln few foss
 Ls crm fxln Dol IP tan fxln
 Ls wt fxln
 Ls wt fxln
 Ls wt fxln

TD 4550'
 DST 4390-4403 REC: 15 OSM 63'
 mcw 252' wtr 1406-1404





Field Service

P.O. BOX 438
Haysville, KS 67060

CEMENT BOND LOG

Company BEAR PETROLEUM, LLC.
Well STATES #1
Field BURDETT
County PAWNEE
State KANSAS

Company BEAR PETROLEUM, LLC.
Well STATES #1
Field BURDETT
County PAWNEE
State KANSAS

Location 1100' FSL & 1320' FWL
SEC. 10 TWP. 22S RGE. 20W
Permanent Datum GROUND LEVEL Elevation 2167
Log Measured From KELLY BUSHING 6" AGL
Drilling Measured From KELLY BUSHING
Elevation K.B. 2173
D.F.
G.L. 2167

Date	06-28-2018						
Run Number	ONE						
Depth Driller	4549						
Depth Logger	4501						
Bottom Logged Interval	4500						
Top Log Interval	3086						
Open Hole Size	WATER						
Type Fluid	WATER						
Density / Viscosity							
Max. Recorded Temp.							
Estimated Cement Top	3286						
Time Well Ready							
Time Logger on Bottom							
Equipment Number	405						
Location	GREAT BEND						
Recorded By	LEE BRETZ						
Witnessed By	MR. DICK SCHREMMER						
Borehole Record		Tubing Record					
Run Number	Bit	From	To	Size	Weight	From	To
Casing Record	Size	Wgt/Ft		Top	Bottom		
Surface String	8.625			0	1319		
Prot. String							
Production String	5.5			0			
Liner							

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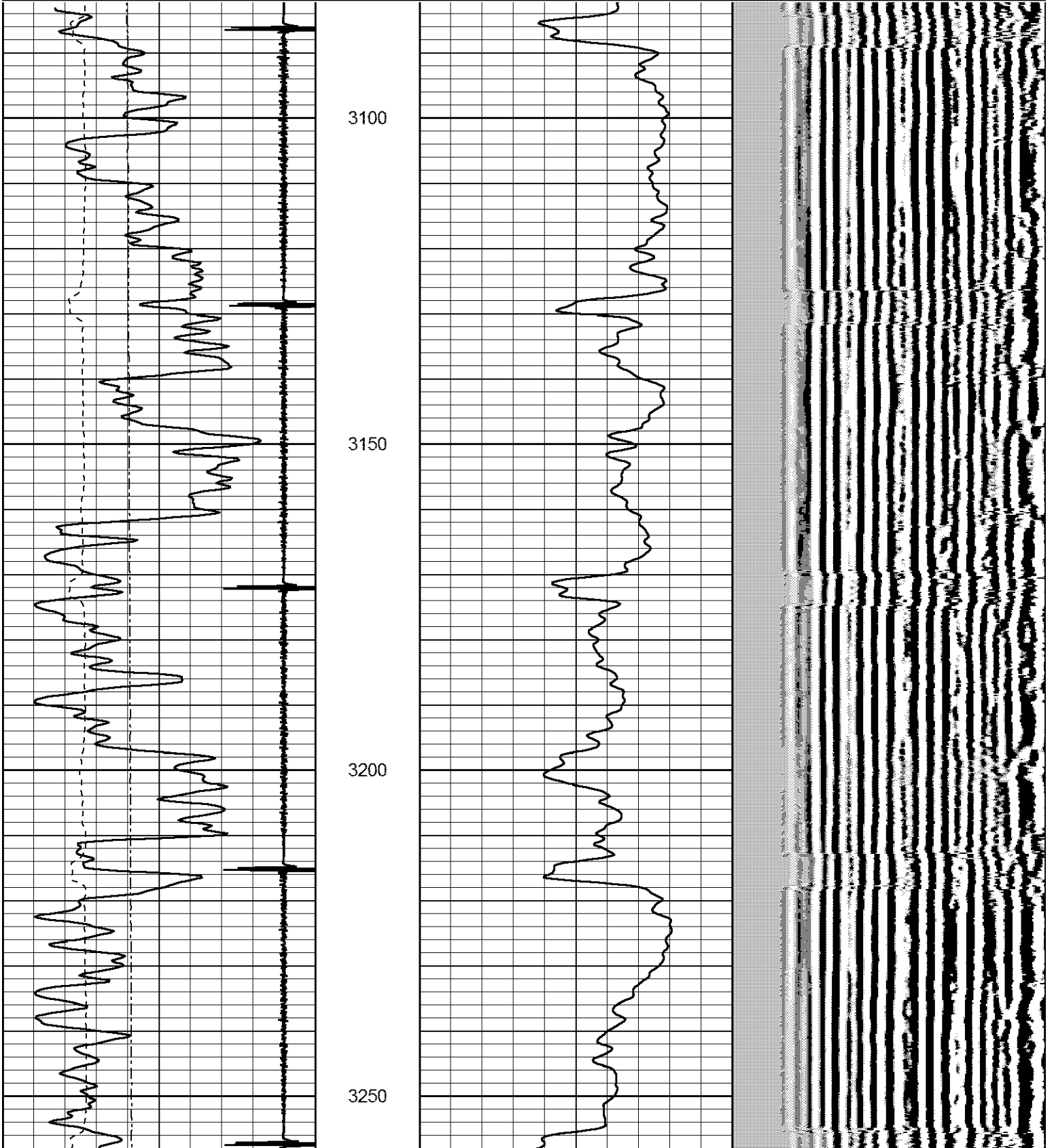
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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!

Database File: states1.db
 Dataset Pathname: pass3
 Presentation Format: cbl02
 Dataset Creation: Thu Jun 28 09:55:29 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	-----					



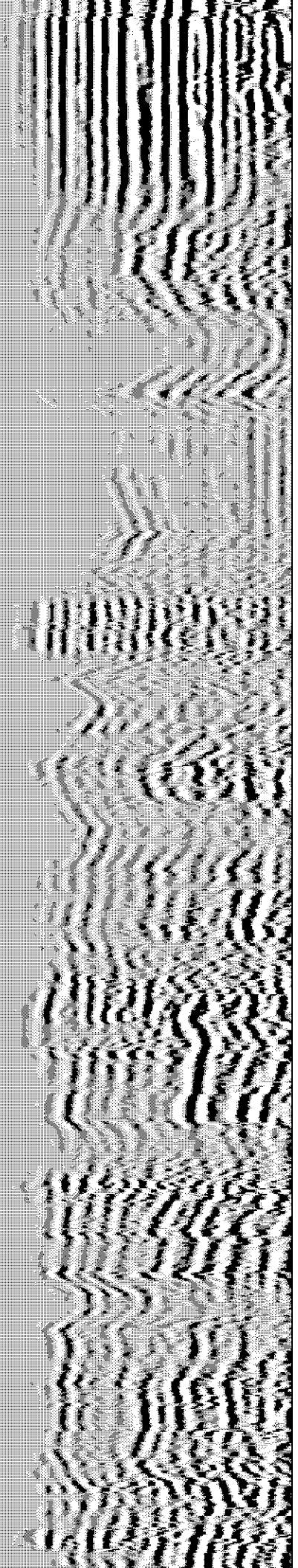
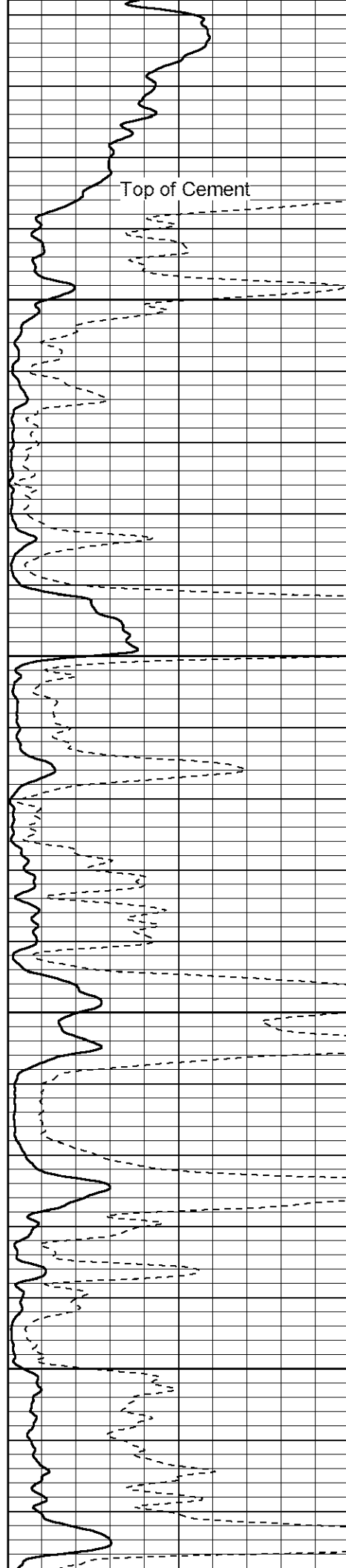


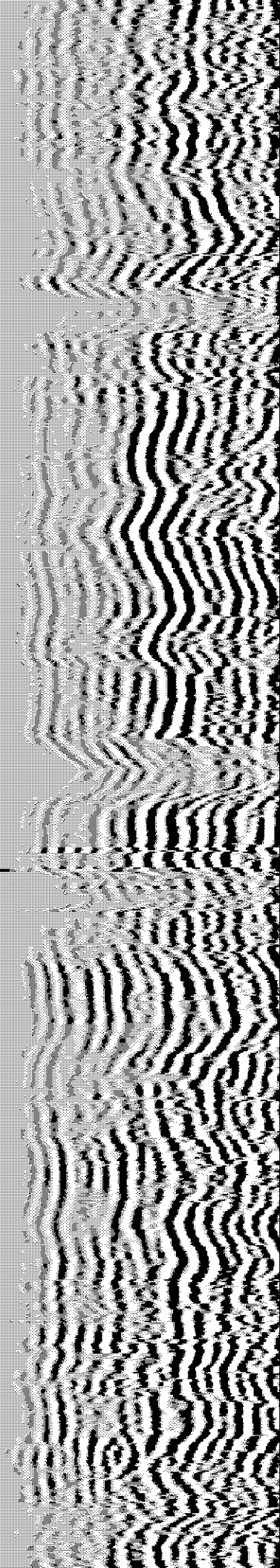
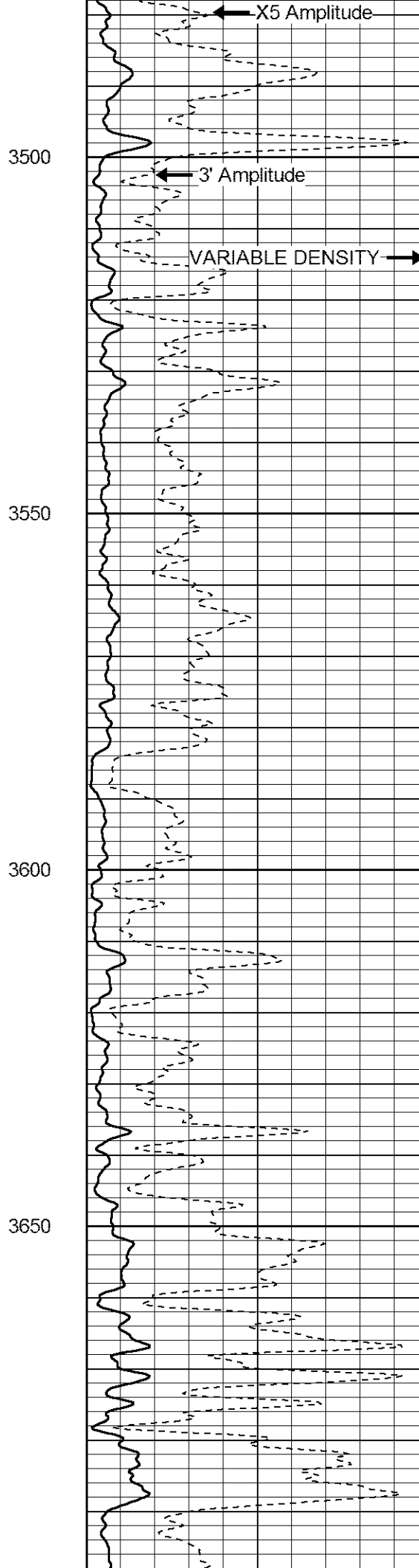
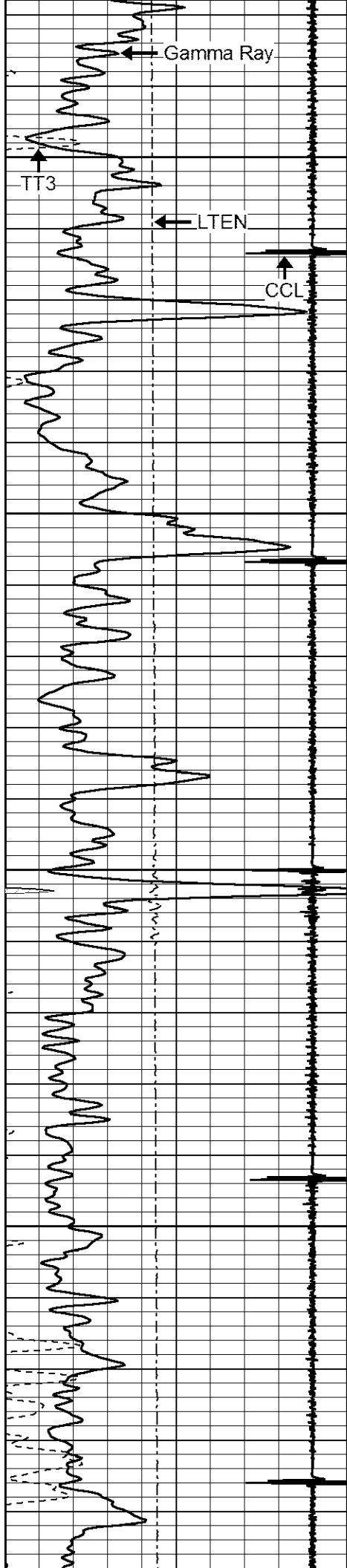
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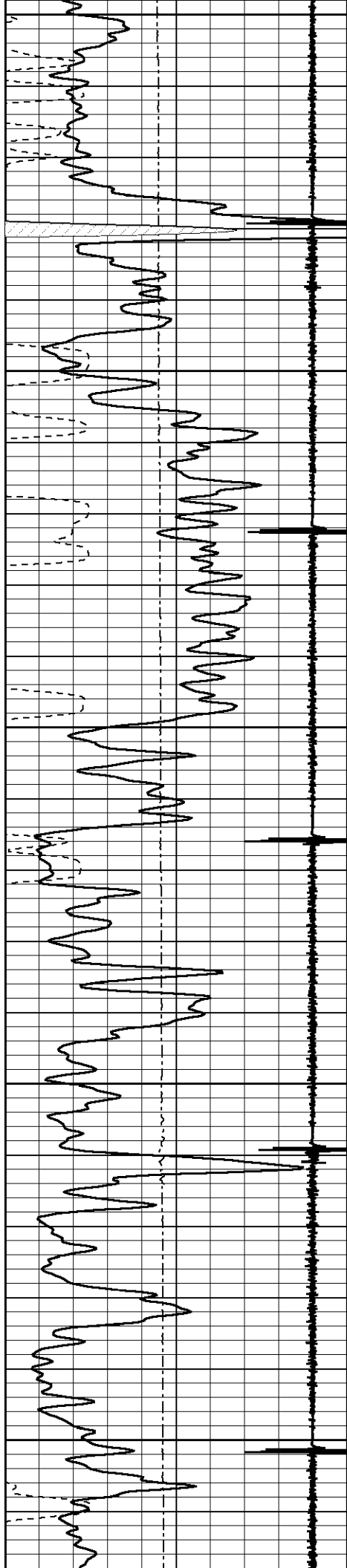
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3400

3450







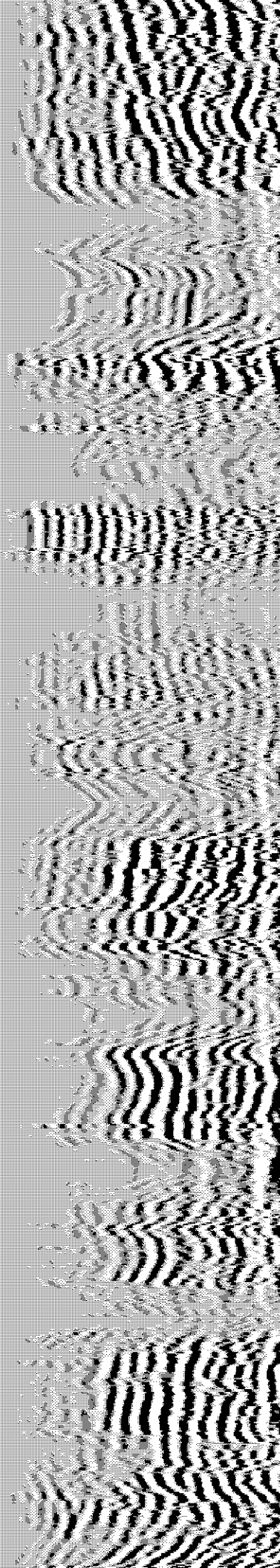
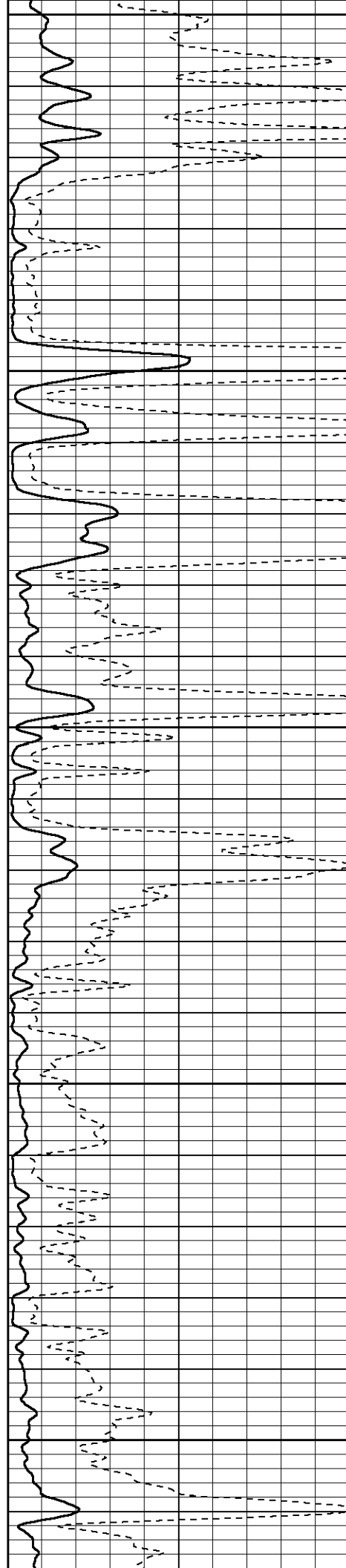
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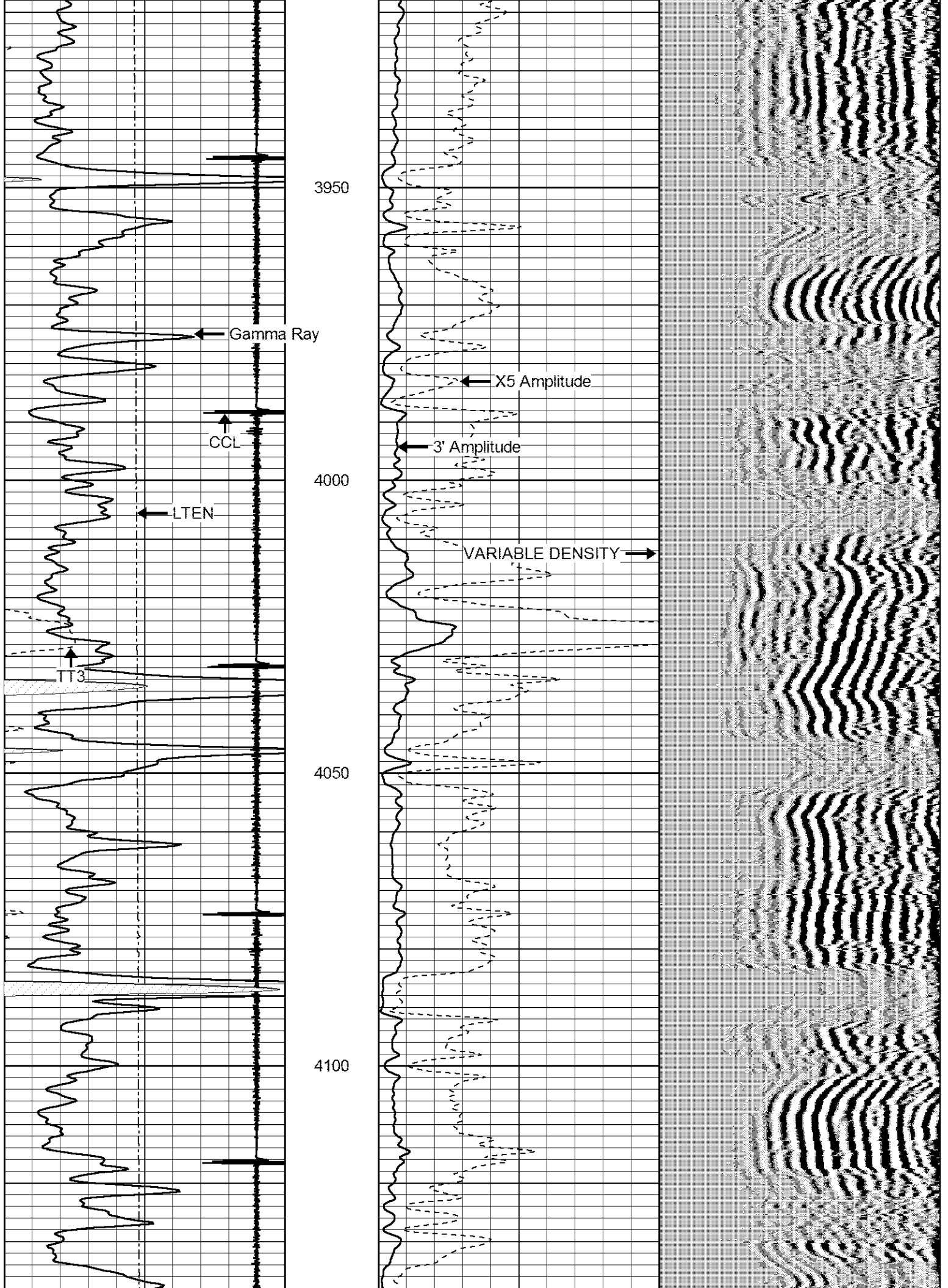
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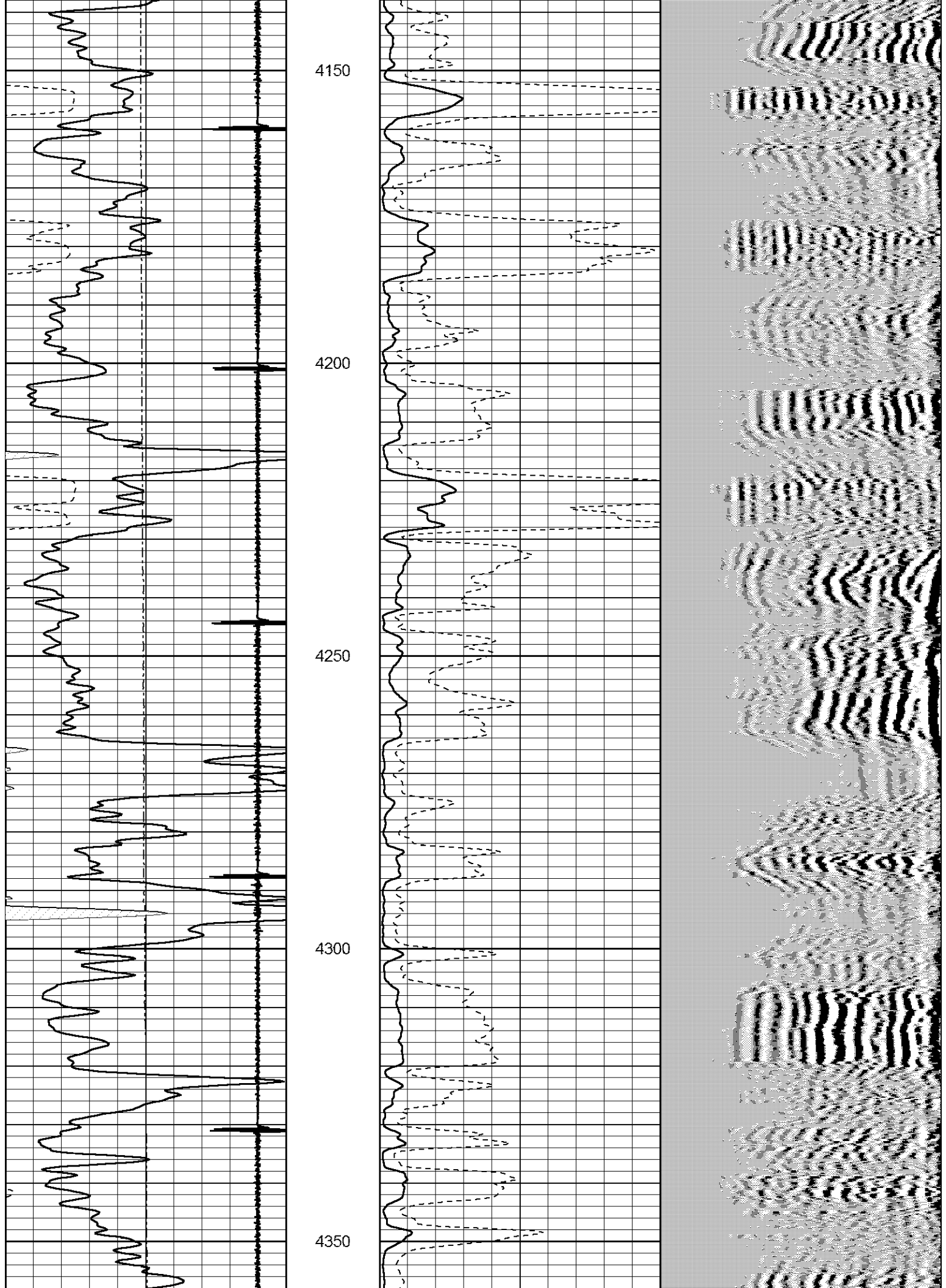
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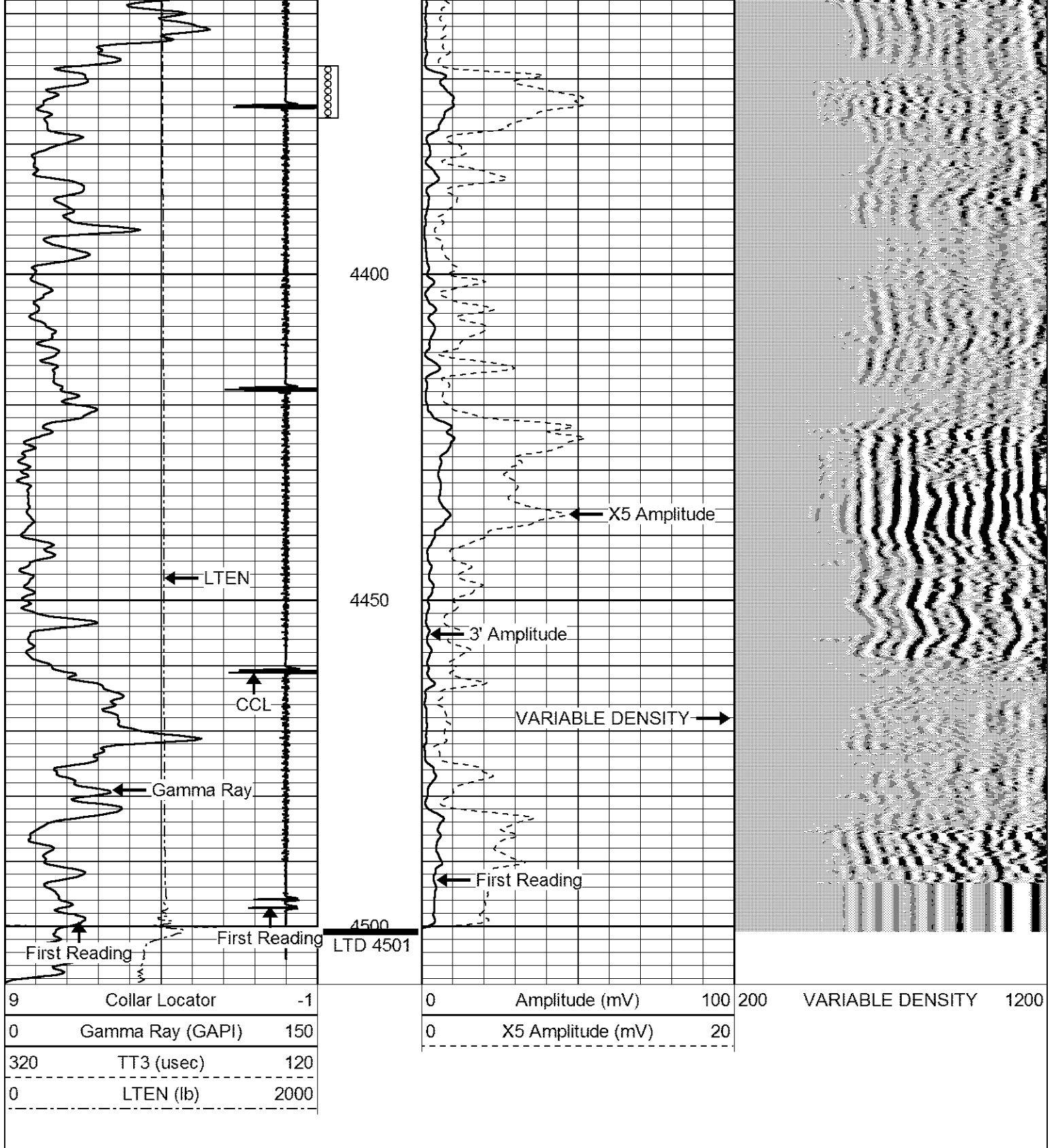
3850

3900









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

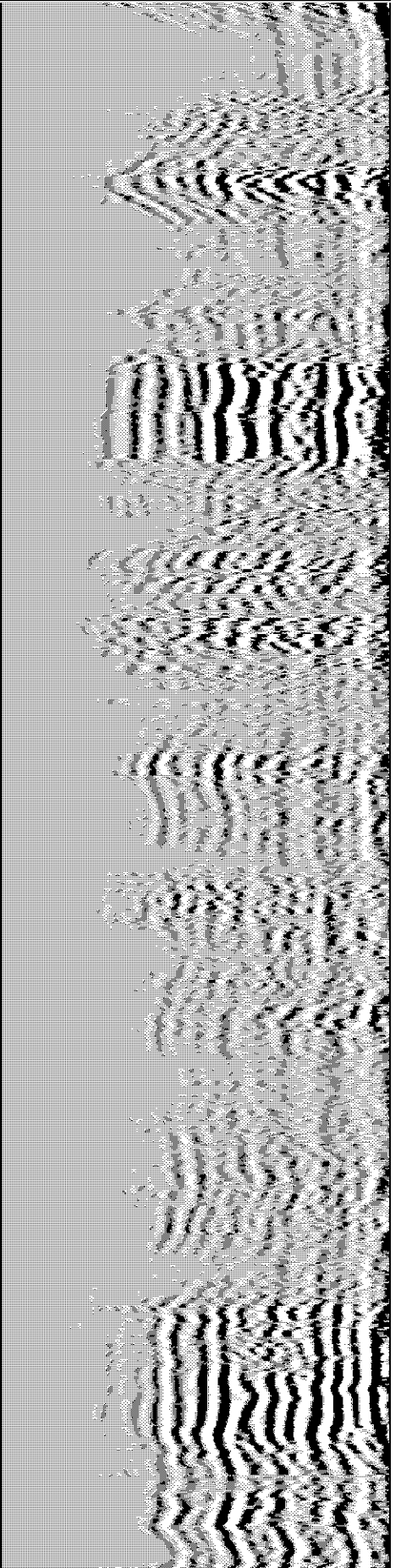
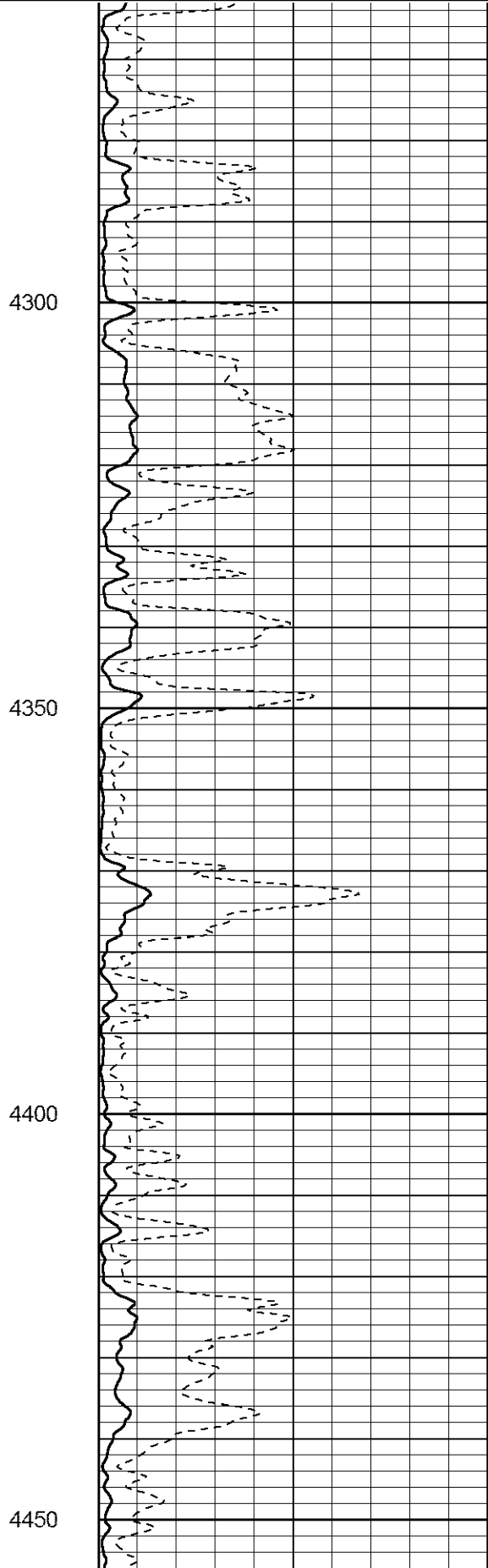
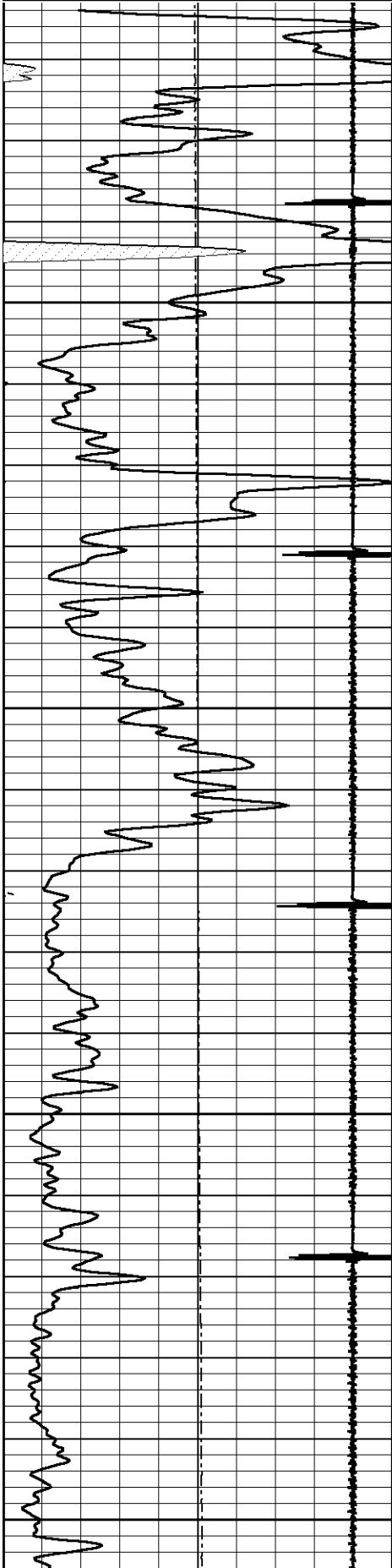
REPEAT SECTION

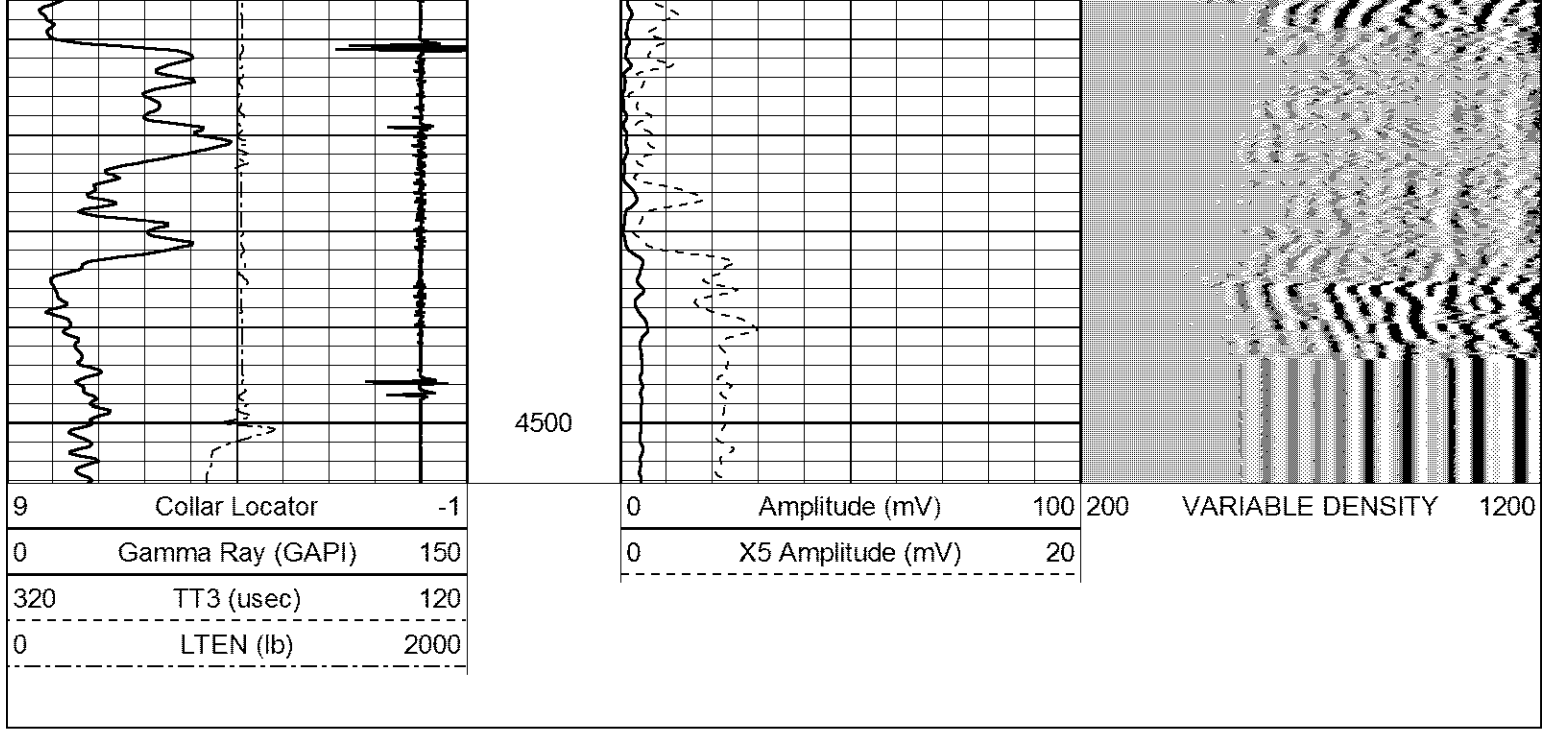
Database File: states1.db
 Dataset Pathname: pass2
 Presentation Format: cbl02
 Dataset Creation: Thu Jun 28 09:45:53 2018 by Log 7.0 B1
 Charted by: Depth in Feet scaled 1:240

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

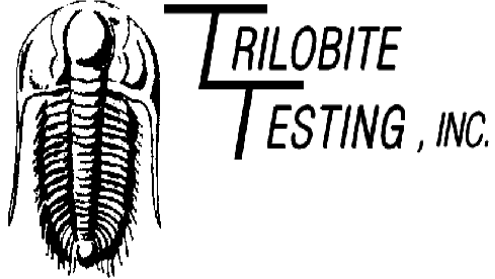




Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			STNDRD Standard Cable Head	1.00	1.69	10.00
WVF3	8.76		CBL-probecbl (probecbl1) probe cbl	8.75	2.75	92.00
WVF5	7.76					

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

Dataset: states1.db: field/well/run1/pass3
 Total Length: 14.32 ft
 Total Weight: 152.00 lb
 O.D.: 2.75 in



DRILL STEM TEST REPORT

Prepared For: **Bear Petroleum**

PO Box 438
Haysville, KS 67060

ATTN: Rod Anderson

States #1

10-22S-20W Pawnee,KS

Start Date: 2018.06.19 @ 22:42:28

End Date: 2018.06.20 @ 07:30:30

Job Ticket #: 63978 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2018.06.20 @ 13:36:14



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Bear Petroleum

10-22S-20W Pawnee, KS

PO Box 438
Haysville, KS 67060

States #1

Job Ticket: 63978

DST#: 1

ATTN: Rod Anderson

Test Start: 2018.06.19 @ 22:42:28

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:34:30

Time Test Ended: 07:30:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Leal Cason

Unit No: 74

Interval: 4390.00 ft (KB) To 4403.00 ft (KB) (TVD)

Reference Elevations: 2173.00 ft (KB)

Total Depth: 4403.00 ft (KB) (TVD)

2167.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 6.00 ft

Serial #: 8875

Inside

Press@RunDepth: 232.46 psig @ 4391.00 ft (KB)

Capacity: psig

Start Date: 2018.06.19

End Date:

2018.06.20

Last Calib.:

2018.06.20

Start Time: 22:42:29

End Time:

07:30:30

Time On Btm:

2018.06.20 @ 01:30:45

Time Off Btm:

2018.06.20 @ 05:20:15

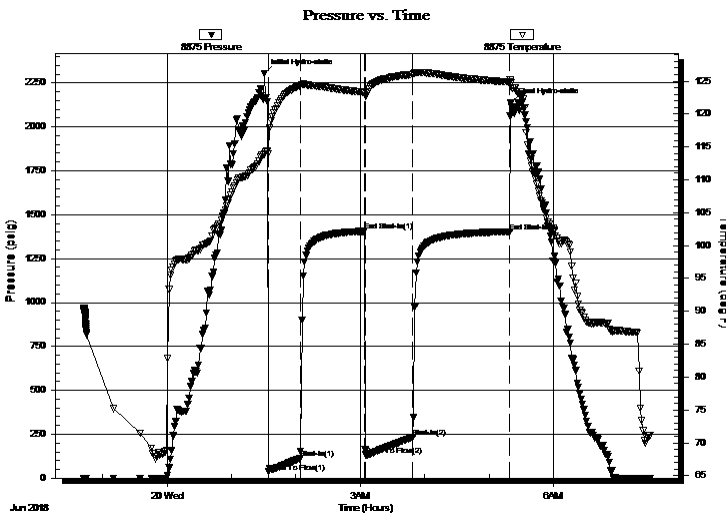
TEST COMMENT: IF: Fair Blow , BOB in 12 minutes, Built to 22 1/2"

IS: No Blow Back

FF: Fair Blow , BOB in 17 minutes, Built to 27 1/2"

FS: No Blow Back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2304.92	113.87	Initial Hydro-static
4	35.74	113.99	Open To Flow (1)
34	113.54	124.33	Shut-In(1)
94	1405.93	123.28	End Shut-In(1)
95	132.33	122.72	Open To Flow (2)
139	232.46	126.04	Shut-In(2)
229	1403.68	124.86	End Shut-In(2)
230	2136.84	124.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
252.00	Water	3.53
63.00	MCW 10%M 90%W	0.88
15.00	SOMCW 2%O 30%M 68%W	0.21

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Bear Petroleum

10-22S-20W Pawnee,KS

PO Box 438
Haysville, KS 67060

States #1

Job Ticket: 63978

DST#: 1

ATTN: Rod Anderson

Test Start: 2018.06.19 @ 22:42:28

Tool Information

Drill Pipe:	Length: 4372.00 ft	Diameter: 3.80 inches	Volume: 61.33 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 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: 80000.00 lb
			<u>Total Volume: 61.33 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	4390.00 ft			Final 69000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	13.00 ft			
Tool Length:	39.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: Shale Packer on Bottom

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			4369.00	
Hydraulic tool	5.00			4374.00	
Jars	5.00			4379.00	
Safety Joint	2.00			4381.00	
Packer	5.00			4386.00	26.00 Bottom Of Top Packer
Packer	4.00			4390.00	
Stubb	1.00			4391.00	
Recorder	0.00	8875	Inside	4391.00	
Recorder	0.00	6749	Outside	4391.00	
Perforations	9.00			4400.00	
Bullnose	3.00			4403.00	13.00 Bottom Packers & Anchor

Total Tool Length: 39.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Bear Petroleum

10-22S-20W Pawnee,KS

PO Box 438
Haysville, KS 67060

States #1

Job Ticket: 63978

DST#: 1

ATTN: Rod Anderson

Test Start: 2018.06.19 @ 22:42:28

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

67000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.77 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
252.00	Water	3.535
63.00	MCW 10%M 90%W	0.884
15.00	SOMCW 2%O 30%M 68%W	0.210

Total Length: 330.00 ft Total Volume: 4.629 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW w as .1 @ 80degrees

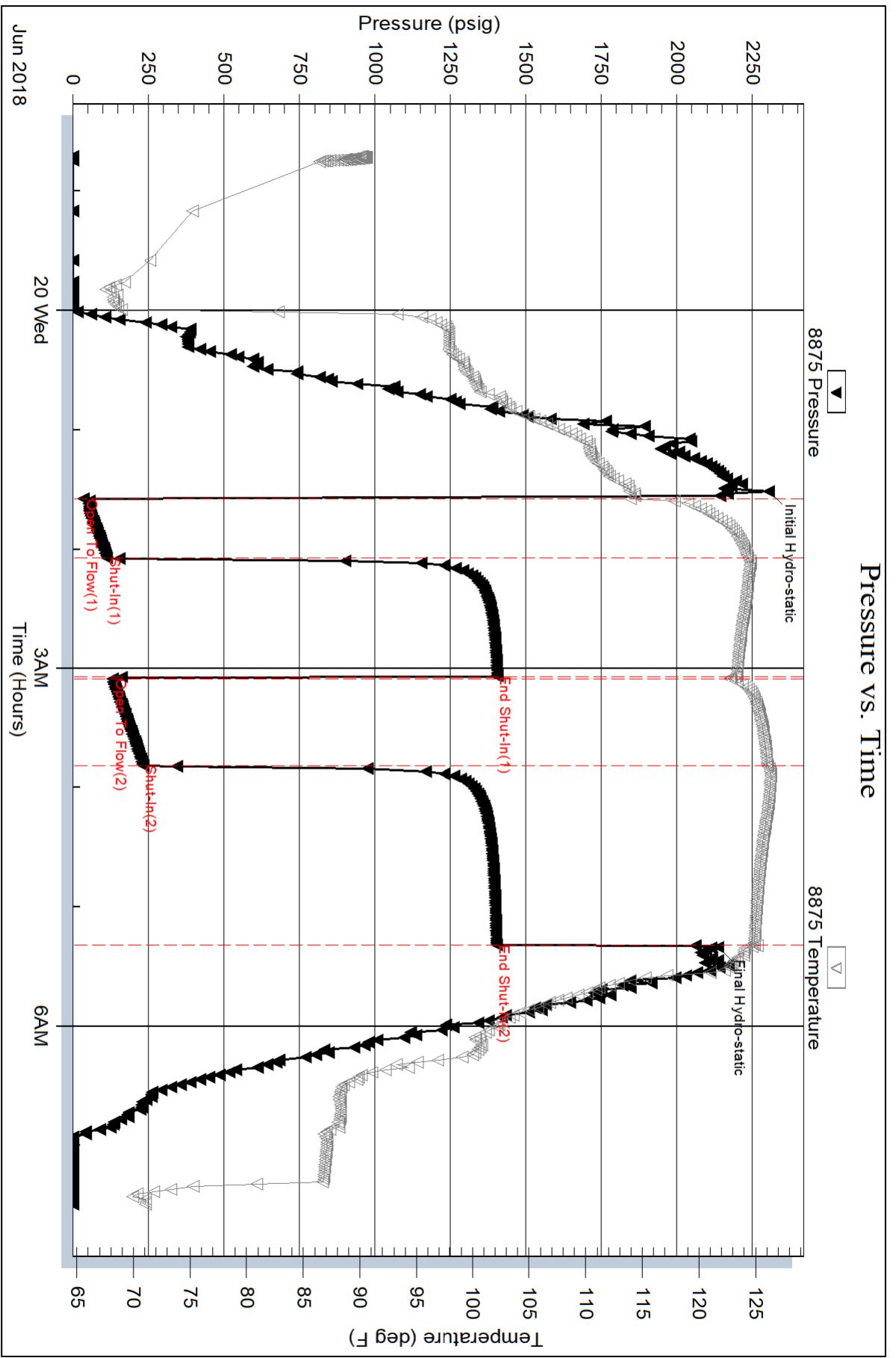
Serial #: 8875

Inside

Bear Petroleum

States #1

DST Test Number: 1

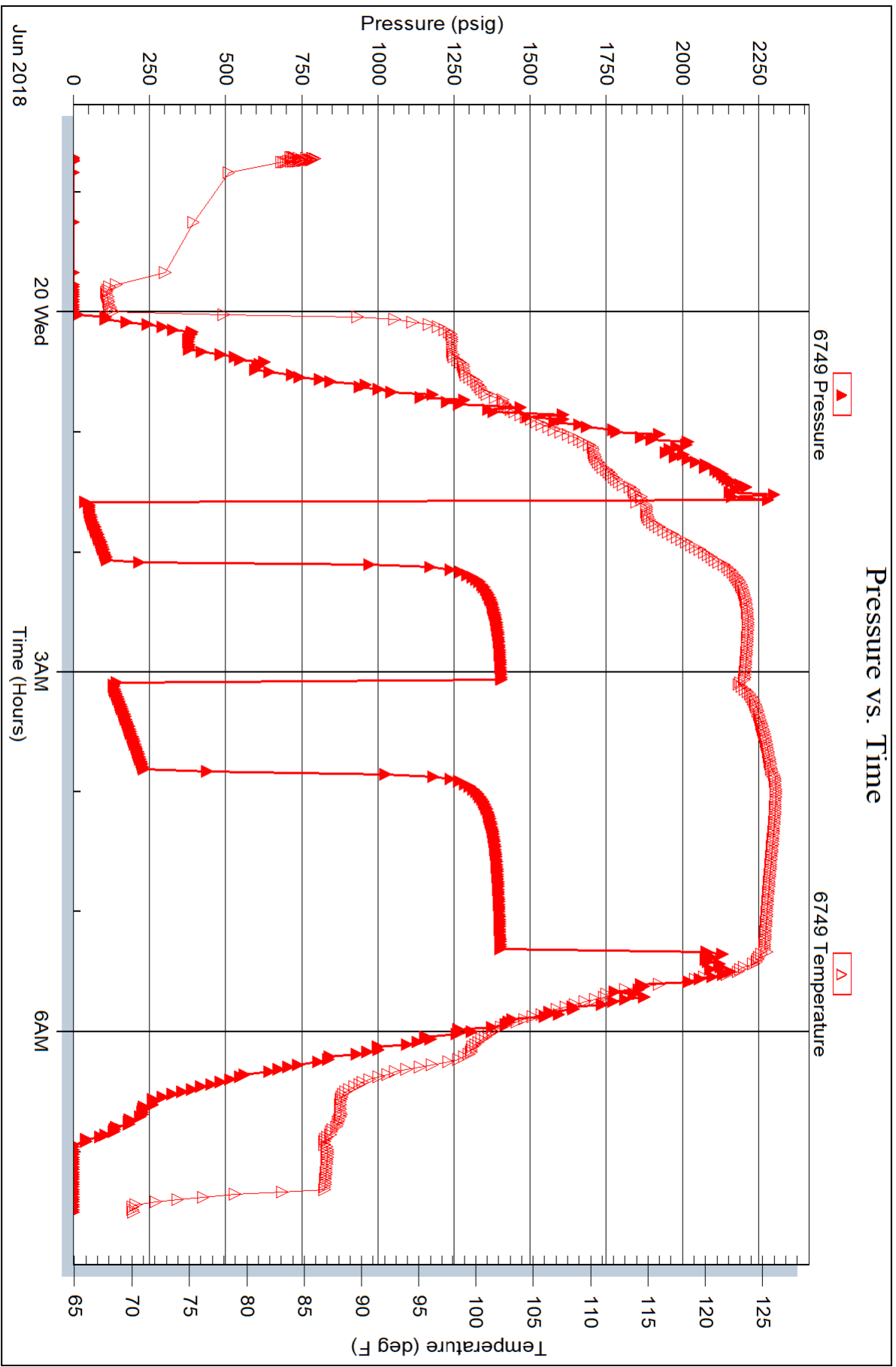


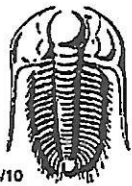
Serial #: 6749

Outside Bear Petroleum

States #1

DST Test Number: 1





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63978

Well Name & No. States 1 Test No. 1 Date 06/19/18
 Company Bear Petroleum Elevation 2173 KB 2167 GL
 Address PO BOX 438 Haysville, KS 67060
 Co. Rep / Geo. Rod Anderson Rig Royal 1
 Location: Sec. 10 Twp 22S Rge. 20W Co. Pawnee State KS

Interval Tested 4390 - 4403 Zone Tested Mississippi
 Anchor Length 13 Drill Pipe Run 4372 Mud Wt. 9.3
 Top Packer Depth 4385 Drill Collars Run 0 Vis 53
 Bottom Packer Depth 4390 Wt. Pipe Run 0 WL 8.8
 Total Depth 4403 Chlorides 3500 ppm System LCM 1

Blow Description IF: Fair Blow, BOB in 12 minutes, Built to 22 1/2 inches
ISI: NO Blow Back
FF: Fair Blow, BOB in 17 minutes, Built to 27 1/2 inches
FSI: NO Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>SOMCW</u>	<u>2</u>	<u>68</u>	<u>30</u>	<u></u>
<u>63</u>	<u>MCW</u>	<u></u>	<u>90</u>	<u>10</u>	<u></u>
<u>252</u>	<u>Water</u>	<u></u>	<u></u>	<u></u>	<u></u>
<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>
<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>
<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>
<u>330</u>	<u>BHT 125</u>	<u>Gravity N/C</u>	<u>API RW 1 @ 80 °F</u>	<u>Chlorides 67000</u>	<u>ppm</u>

(A) Initial Hydrostatic	<u>2305</u>
(B) First Initial Flow	<u>36</u>
(C) First Final Flow	<u>113</u>
(D) Initial Shut-In	<u>1406</u>
(E) Second Initial Flow	<u>132</u>
(F) Second Final Flow	<u>232</u>
(G) Final Shut-In	<u>1404</u>
(H) Final Hydrostatic	<u>2137</u>

Initial Open	<u>30</u>
Initial Shut-In	<u>60</u>
Final Flow	<u>45</u>
Final Shut-In	<u>90</u>

- Test 1150
- Jars 250
- Safety Joint 75
- Circ Sub
- Hourly Standby
- Mileage 160 94rt
- Sampler
- Straddle
- Shale Packer 250
- Extra Packer
- Extra Recorder
- Day Standby
- Accessibility
- Sub Total 1819

T-On Location 2100
 T-Started 22:42
 T-Open 01:34
 T-Pulled 05:19
 T-Out 07:30
 Comments _____

 Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Sub Total 0
 Total 1819
 MP/DST Disc't _____

Approved By Rod Anderson

Our Representative _____

Trilobite 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.