

Confidentiality Requested:

☐ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1199477

Form ACO-1

August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- ☐ New Well ☐ Re-Entry ☐ Workover
- ☐ Oil ☐ WSW ☐ SWD ☐ SIOW
- ☐ Gas ☐ D&A ☐ ENHR ☐ SIGW
- ☐ OG ☐ GSW ☐ Temp. Abd.
- ☐ CM (Coal Bed Methane)
- ☐ Cathodic ☐ Other (Core, Expl., etc.): _____

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- ☐ Deepening ☐ Re-perf. ☐ Conv. to ENHR ☐ Conv. to SWD
- ☐ Plug Back ☐ Conv. to GSW ☐ Conv. to Producer
- ☐ Commingled Permit #: _____
- ☐ Dual Completion Permit #: _____
- ☐ SWD Permit #: _____
- ☐ ENHR Permit #: _____
- ☐ GSW Permit #: _____

Spud Date or
Recompletion Date

Date Reached TD

Completion Date or
Recompletion Date

API No. 15 - _____

Spot Description: _____

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

_____ Feet from ☐ North / ☐ South Line of Section

_____ Feet from ☐ East / ☐ West Line of Section

Footages Calculated from Nearest Outside Section Corner:

☐ NE ☐ NW ☐ SE ☐ SW

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

Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? ☐ Yes ☐ No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

☐ Confidentiality Requested

Date: _____

☐ Confidential Release Date: _____

☐ Wireline Log Received

☐ Geologist Report Received

☐ UIC Distribution

ALT ☐ I ☐ II ☐ III Approved by: _____ Date: _____

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

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

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

<div style="text-align: center;"> CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used </div> <div style="text-align: center;">Report all strings set-conductor, surface, intermediate, production, etc.</div>							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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

Did you perform a hydraulic fracturing treatment on this well? ☐ Yes ☐ No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? ☐ Yes ☐ No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? ☐ Yes ☐ No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated		Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)		Depth
TUBING RECORD: Size: Set At: Packer At:			Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No		
Date of First, Resumed Production, SWD or ENHR.		Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<p>DISPOSITION OF GAS:</p> <p><input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease</p> <p><i>(If vented, Submit ACO-18.)</i></p>		<p>METHOD OF COMPLETION:</p> <p><input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled</p> <p><i>(Submit ACO-5)</i></p> <p><input type="checkbox"/> Other <i>(Specify)</i> _____</p>	<p>PRODUCTION INTERVAL:</p> <p>_____</p> <p>_____</p>
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Form	ACO1 - Well Completion
Operator	Mike Kelso Oil, Inc.
Well Name	Volkland A 7
Doc ID	1199477

Tops

Name	Top	Datum
TOPEKA	2463	-711
HEEBNER SHALE	2729	-977
TORONTO	2750	-988
DOUGLAS SHALE	2758	-1006
BROWN LIME	2846	-1094
LKC	2865	-1113
BKC	3133	-1381
CONGLOMERATE	3150	-1398
PRECAMBRIAN	3175	-1423

OPERATOR			
Company:	MIKE KELSO OIL, INC		
Address:	P.O. BOX 467 CHASE, KANSAS 67524-0467		
Contact Geologist:	MIKE KELSO		
Contact Phone Nbr:	620-938-2943		
Well Name:	VOLKLAND A #7		
Location:	NW SW SE NW S27 T18S R10W	API:	15-159-22,770-0000
Pool:		Field:	ORTH
State:	KANSAS	Country:	USA

Scale 1:240 Imperial			
Well Name:	VOLKLAND A #7		
Surface Location:	NW SW SE NW S27 T18S R10W		
Bottom Location:			
API:	15-159-22,770-0000		
License Number:	31528		
Spud Date:	4/1/2014	Time:	8:15 PM
Region:	RICE COUNTY		
Drilling Completed:	4/7/2014	Time:	11:20 PM
Surface Coordinates:	2079 FNL & 1342 FWL		
Bottom Hole Coordinates:			
Ground Elevation:	1745.00ft		
K.B. Elevation:	1752.00ft		
Logged Interval:	2100.00ft	To:	3200.00ft
Total Depth:	3188.00ft		
Formation:	PRE-CAMBRIAN		
Drilling Fluid Type:	CHEMICAL/FRESH WATER GEL		

SURFACE CO-ORDINATES			
Well Type:	Vertical		
Longitude:	-98.4199176	Latitude:	38.4578400
N/S Co-ord:	2079 FNL		
E/W Co-ord:	1342 FWL		

LOGGED BY			
			
Company:	SOLUTIONS CONSULTING, INC.		
Address:	108 W 35TH HAYS, KS 67601		
Phone Nbr:	(785) 639-1337		
Logged By:	GEOLOGIST	Name:	STEVE REED / HERB DEINES

CONTRACTOR			
Contractor:	SKYTOP DRILLING		
Rig #:	1		
Rig Type:	MUD ROTARY		
Spud Date:	4/1/2014	Time:	8:15 PM
TD Date:	4/7/2014	Time:	11:20 PM
Rig Release:	4/9/2014	Time:	12:00 AM


ELEVATIONS			
K.B. Elevation:	1752.00ft	Ground Elevation:	1745.00ft
K.B. to Ground:	7.00ft		


NOTES	
DECISION WAS MADE TO SET 5 1/2" PRODUCTION CASING TO FURTHER TEST ZONES WITH FAVORABLE OIL AND GAS SHOWS	
OPEN HOLE WELL LOGGING BY PIONEER WIRELINE: DUAL INDUCTION LOG, DUAL COMPENSATED POROSITY LOG, AND MICRORESISTIVITY LOG	
NO DRILL STEM TESTS WERE PERFORMED	


FORMATION TOPS AND SUMMARY OF DAILY ACTIVITIES																																																																										
<table><tr><td></td><td colspan="2">WELL NAME</td><td>COMPARISON WELL</td><td>COMPARISON WELL</td></tr><tr><td></td><td colspan="2">VOLKLAND A #7</td><td>HABIGER #8</td><td>HOELSCHER #1</td></tr><tr><td></td><td colspan="2">API: 15-159-22770</td><td>API: 15-159-21620</td><td>API: 15-159-21715</td></tr><tr><td>FORMATION</td><td>SAMPLE TOPS</td><td>LOG TOPS</td><td>LOG TOPS (DATUM)</td><td>LOG TOPS (DATUM)</td></tr><tr><td>TOPEKA</td><td>2463' (-711')</td><td>2463' (-711')</td><td>-707'</td><td>-708'</td></tr><tr><td>HEEBNER</td><td>2730' (-978')</td><td>2729' (-977')</td><td>-967'</td><td>-970'</td></tr><tr><td>TORONTO</td><td>2749' (-987')</td><td>2750' (-988')</td><td>-985'</td><td>-991'</td></tr><tr><td>DOUGLAS</td><td>2760' (-1008')</td><td>2758 (-1006')</td><td>-1000'</td><td>-998'</td></tr><tr><td>BROWN LIME</td><td>2846' (-1094')</td><td>2846' (-1094')</td><td>-1085'</td><td>-1089'</td></tr><tr><td>LKC</td><td>2867' (-1115')</td><td>2865' (-1113')</td><td>-1103'</td><td>-1108'</td></tr><tr><td>BKC</td><td>3136' (-1384')</td><td>3133' (-1381')</td><td>-1374'</td><td>-1392'</td></tr><tr><td>CONGLOMERATE</td><td>3149' (-1397')</td><td>3150' (-1398')</td><td>-1386'</td><td>NA</td></tr><tr><td>PRECAM. QTZ</td><td>3176' (-1424')</td><td>3175' (-1423')</td><td>-1423'</td><td>-1458'</td></tr><tr><td>RTD</td><td>3188' (-1436')</td><td>3188' (-1436')</td><td>-1642'</td><td>-1500'</td></tr></table>						WELL NAME		COMPARISON WELL	COMPARISON WELL		VOLKLAND A #7		HABIGER #8	HOELSCHER #1		API: 15-159-22770		API: 15-159-21620	API: 15-159-21715	FORMATION	SAMPLE TOPS	LOG TOPS	LOG TOPS (DATUM)	LOG TOPS (DATUM)	TOPEKA	2463' (-711')	2463' (-711')	-707'	-708'	HEEBNER	2730' (-978')	2729' (-977')	-967'	-970'	TORONTO	2749' (-987')	2750' (-988')	-985'	-991'	DOUGLAS	2760' (-1008')	2758 (-1006')	-1000'	-998'	BROWN LIME	2846' (-1094')	2846' (-1094')	-1085'	-1089'	LKC	2867' (-1115')	2865' (-1113')	-1103'	-1108'	BKC	3136' (-1384')	3133' (-1381')	-1374'	-1392'	CONGLOMERATE	3149' (-1397')	3150' (-1398')	-1386'	NA	PRECAM. QTZ	3176' (-1424')	3175' (-1423')	-1423'	-1458'	RTD	3188' (-1436')	3188' (-1436')	-1642'	-1500'
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SUMMARY OF DAILY ACTIVITY																																																																										
4-1-14	R.U., spud @ 8:15pm, 17 1/4" bit																																																																									
4-2-14	285', 13 3/8" surface casing set at 436' w/400 sxs common, 2% gel, 3% cc, short trip, survey 1/4°, WOC																																																																									


4-3-14	460', drilling, 12 1/4" bit
4-4-14	1119', TOWB, change to 7 7/8" bit, TIWB, drilling
4-5-14	1900', drilling
4-6-14	2625', drilling, CFS @ 2690'
4-7-14	3117', drilling, CFS @ 3159', TD @ 3188' @ 11:20PM, CTCH, short trip, CTCH 1 HRS, TOWB, survey 3.4°, strap 2.64' short to board, TOWB for logging
4-8-14	3188', logging, prepare to set 5 ½" production casing
4-9-14	release rig


ROCK TYPES


 Congl


 Lmst fw<7


 Lmst fw>7


 shale, grn

 shale, gry

 Carbon Sh

 shale, red

 Meta

 Qtz Cryst

ACCESSORIES

MINERAL
G Glaucconite
P Pyrite
CW Chert White
Me Mica

FOSSIL
F Fossils < 20%
G Gastropod
O Oolite
Oom Oomoldic
Fuss Fossilinid

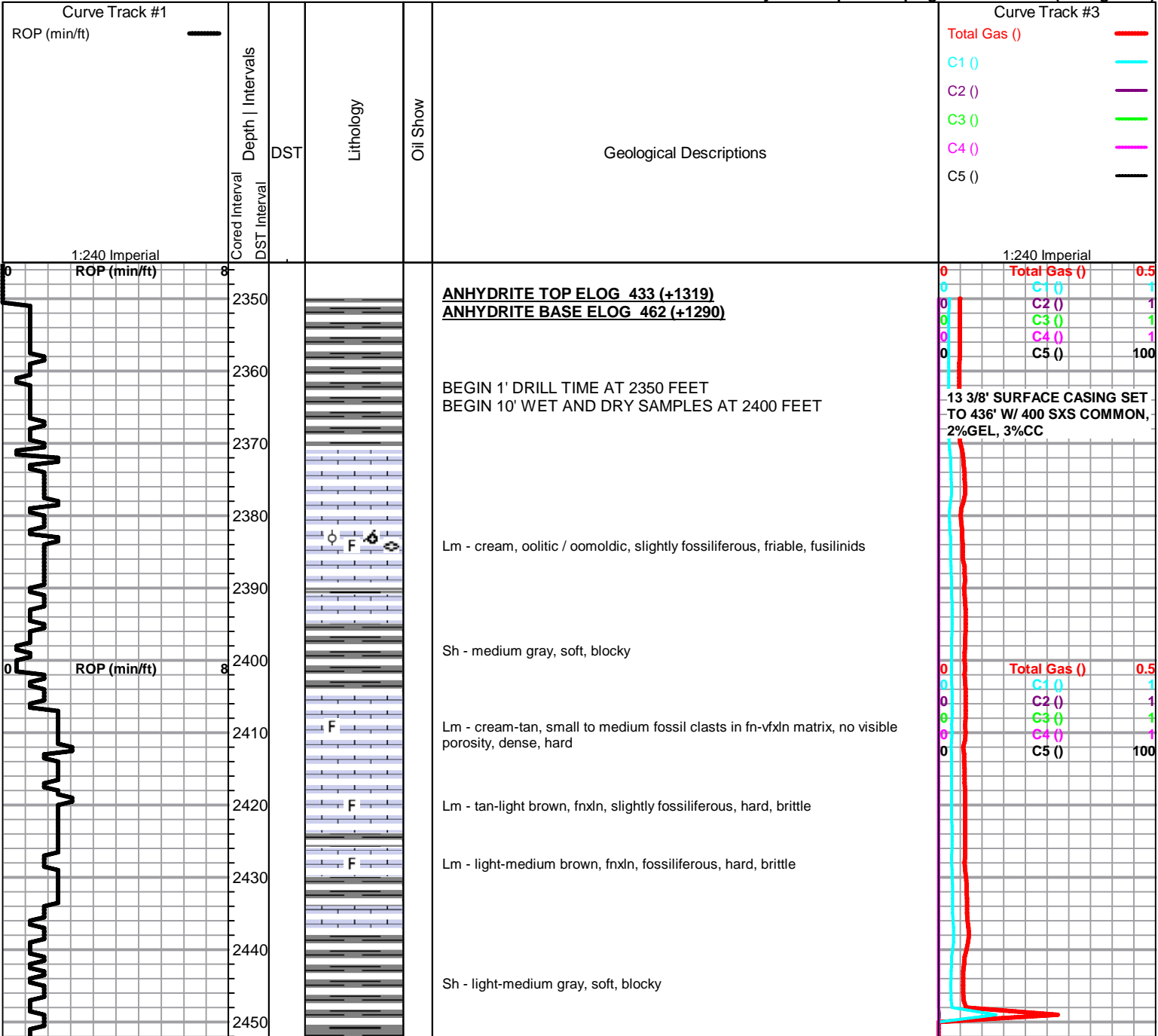
STRINGER
Ch Chert
Lm Limestone
St Siltstone

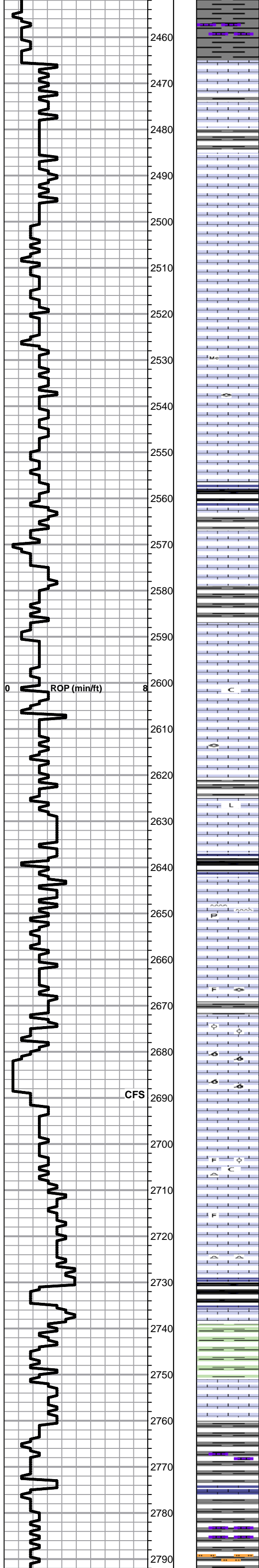
TEXTURE
C Chalky
L Lithogr

OTHER SYMBOLS

DST
DST Int
DST alt

Printed by GEOstrip VC Striplog version 4.0.7.0 (www.grsi.ca)





Sh - A/A

TOPEKA SPL 2463 (-711) ELOG 2463 (-711)

Lm - light-medium gray, fnxln, dense, brittle

Lm - cream-light brown, fnxln, dense, brittle

Lm - light brown/ gray, fnxln, dense, brittle

Lm - light brown - tan, fn-vfxln, dense, hard

Lm - tan-medium brown, vfxln, dense, hard

Lm - tan-light brown, fn-medxln, brittle

Lm - light brown with slight micaceous black specks, medxln-granular, friable

Lm - light gray, vfxln, dense, hard, bedded chalk in part, fusulinids

Lm - tan, fine interxln porosity, dense, brittle

Lm - cream, medxln-granular, friable

Sh - black carbonaceous, waxy

Lm - cream-tan, oolitic, loosely cemented, friable, no visible stain, NSFO, questionable odor

Sh - medium gray, firm, earthy

Lm - cream-tan, fnxln, brittle, chalky

Lm - cream, granular, friable, white sticky chalk clumps

Lm - tan, fnxln, dense, brittle, fusilinids

Lm - tan, fnxln, some lithographic, dense, hard

Lm - tan-light brown, fnxln, dense, hard, cherty

Sh - black carbonaceous, waxy

Lm - cream-tan, fnxln, dense, brittle, cherty, pyrite

Lm - light gray, fnxln, brittle, bedded chalk in part

Lm - cream, fossiliferous, well cemented fnxn matrix, dense, hard, fusulinids

Lm - cream, oolitic, scattered pinpoint porosity, NSFO, no odor, cherty

● Lm - dark brown, oomoldic, good vuggy porosity, black saturated stain, SFO, moderate odor, black and white chert, bryozoans

● Lm - brown, oomoldic, vuggy porosity, dark saturated stain, SFO, heavy oil, good odor

Lm - tan, fnxln, dense, brittle

Lm - light brown, oolitic, slightly fossiliferous, moderate pinpoint porosity, light golden brown stain, faint odor, cherty, chalky, NSFO

Lm - light-medium brown, fnxln, fossiliferous, fine interxln porosity, hard

Lm - medium brown, vfxln, dense, hard, cherty

HEEBNER SPL 2730 (-978) ELOG 2729 (-977)

Sh - black carbonaceous, waxy

Sh - greenish gray, soft blocky

TORONTO SPL 2948 (-986) ELOG 2950 (-988)

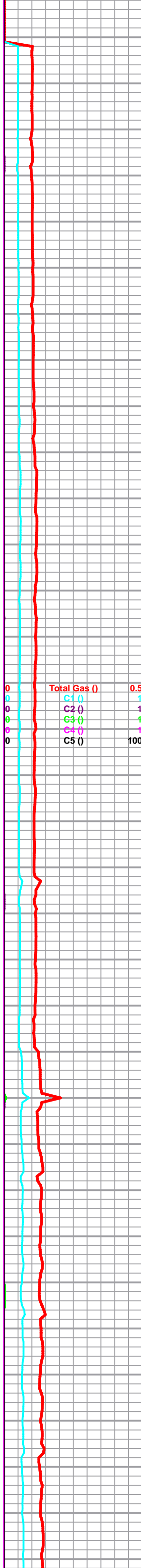
Lm - cream-light gray, fn-vfxln, hard, brittle

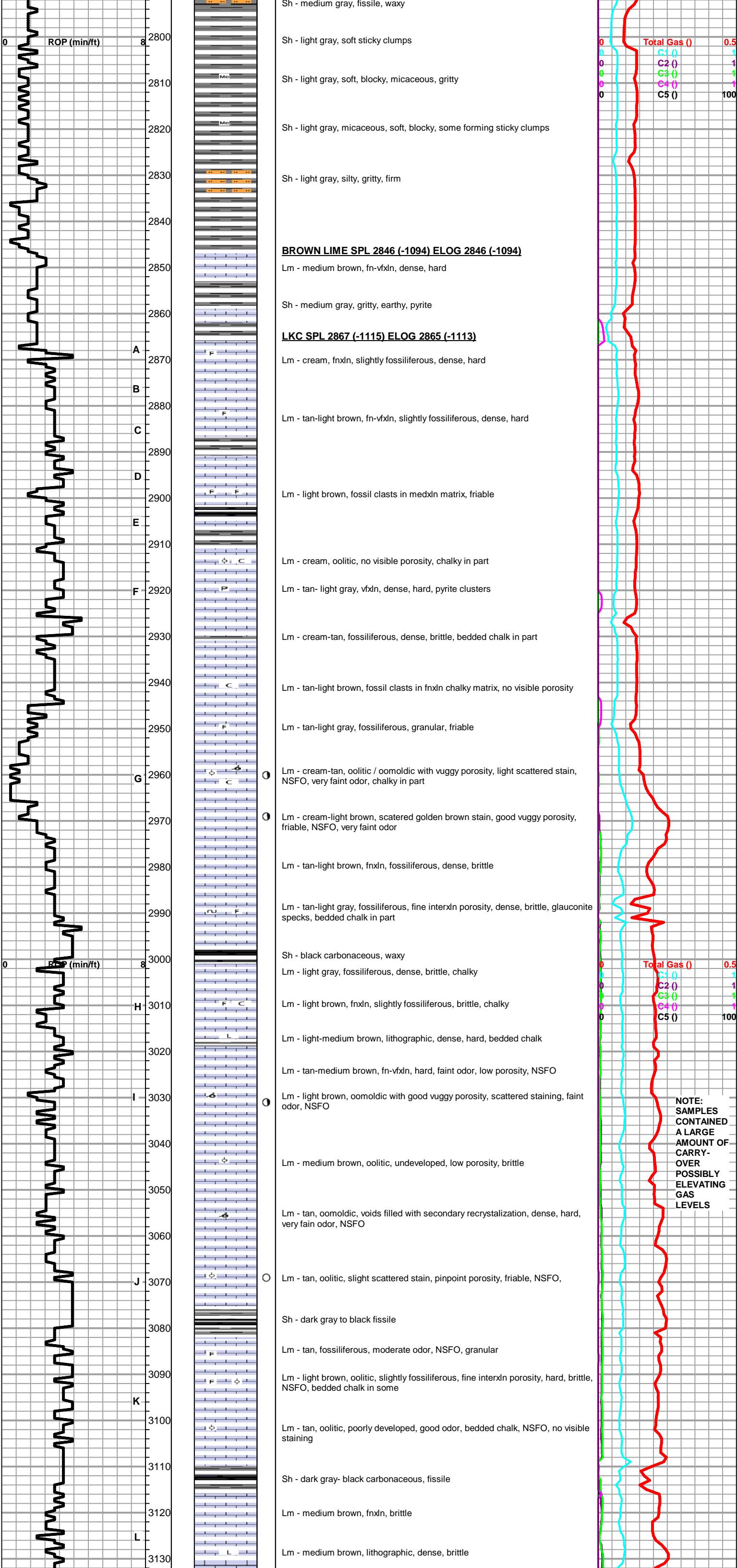
DOUGLAS SH SPL 2760 (-1008) ELOG 2758 (-1006)

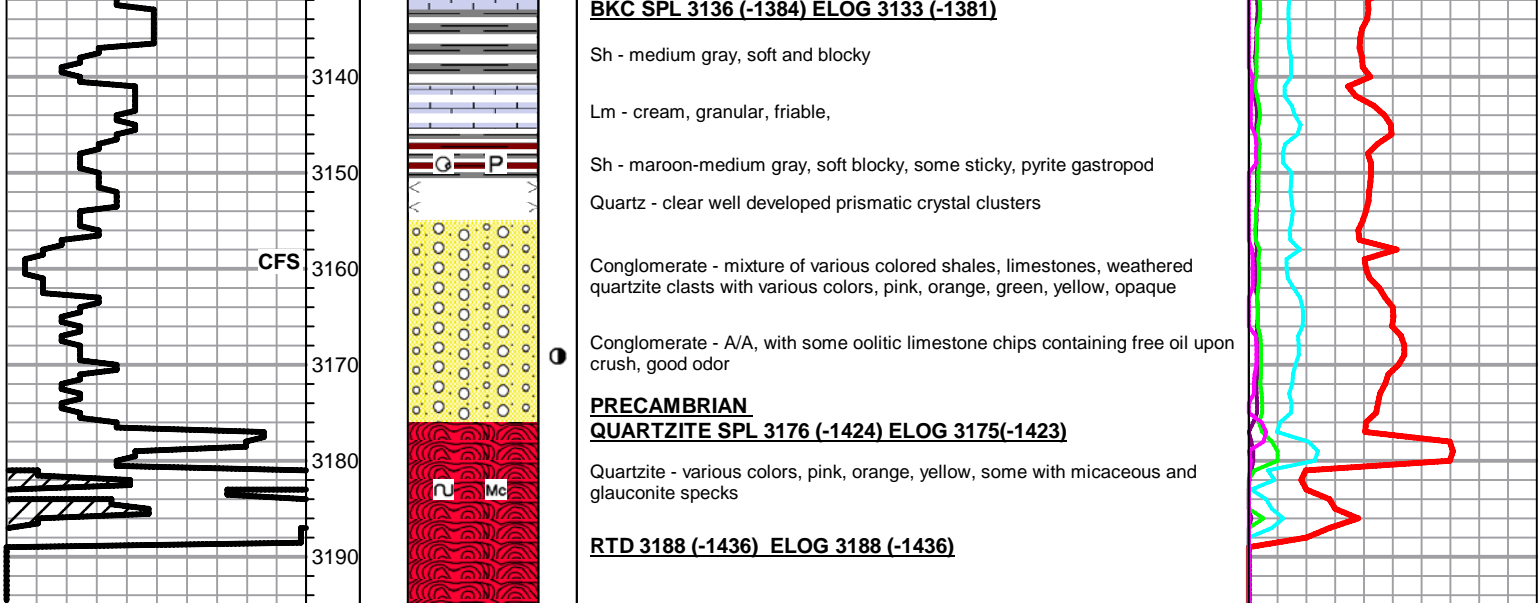
Sh - medium gray, soft, fissile

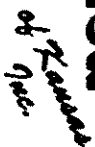
Sh - medium gray, mudstone, argillaceous, firm, blocky

Sh - light-medium gray, argillaceous, firm









GAMMA RAY NEUTRON BOND LOG

Elevation

K.B.	1752
D.F.	
G.L.	1745

ONE
3188

3192

3191

1450

44

WALIK

1520

0701

151

HEAT BEN

GIEBLER

R. KELSO

To

W/C

2

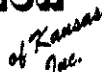
1000

<<< 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

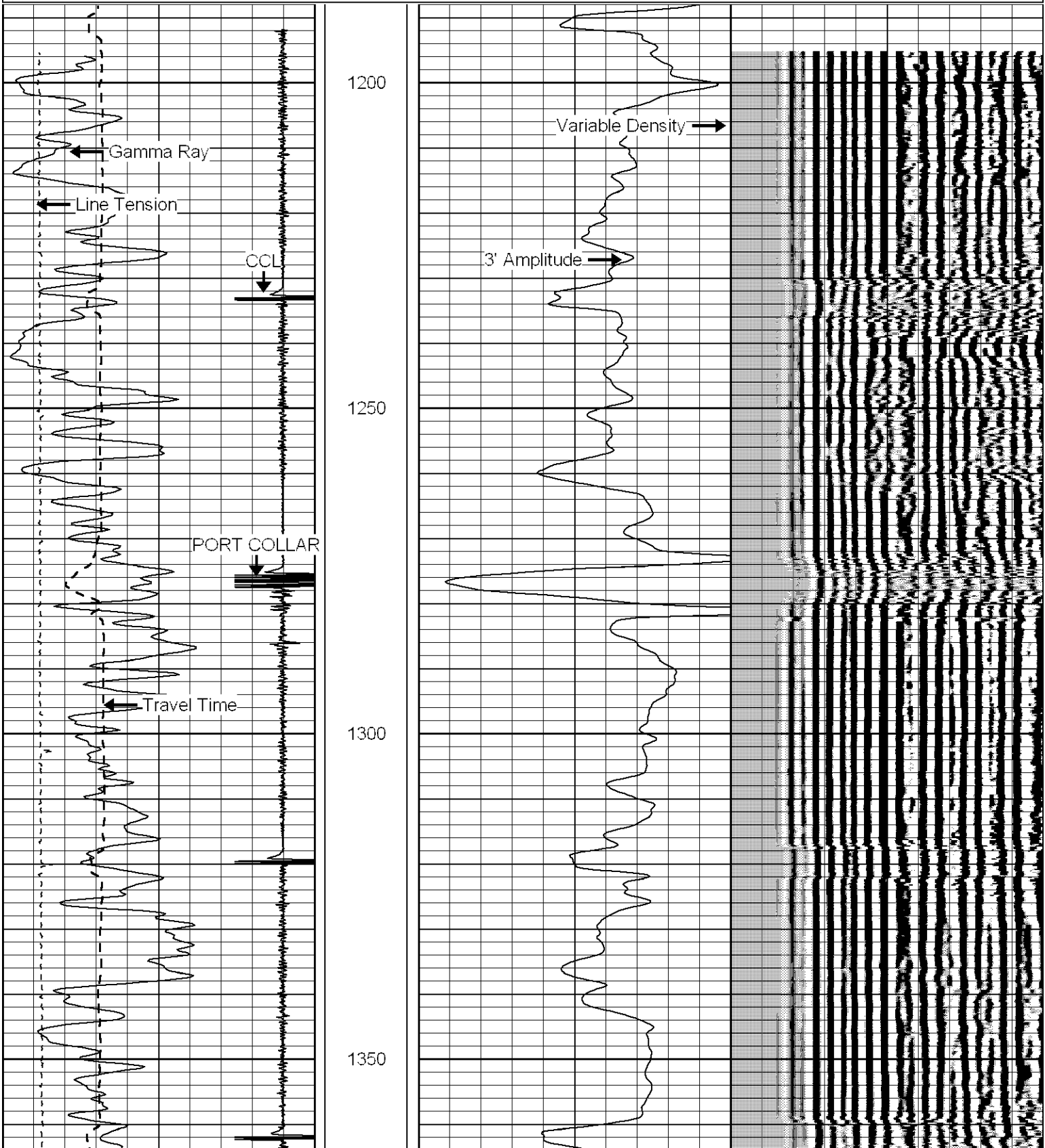
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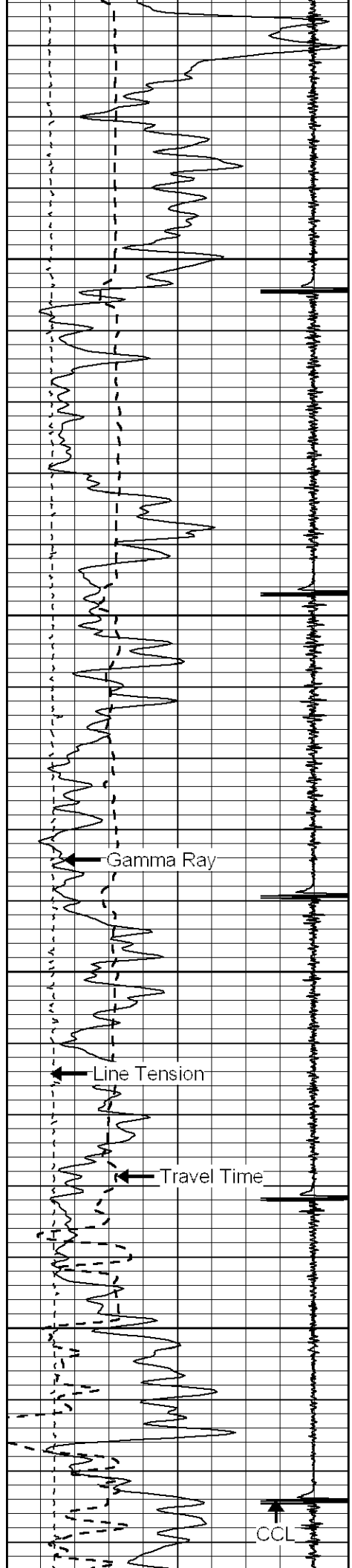


GREAT BEND, KANSAS

MAIN PASS

320	Travel Time (usec)	120	0	AMPLITUDE (mV)	100	200	Variable Density	1200
9	Collar Locator	-1	80	NEUTRON (cps)				1450
0	Gamma Ray (GAPI)	150						
0	LTEN (lb)	2000						



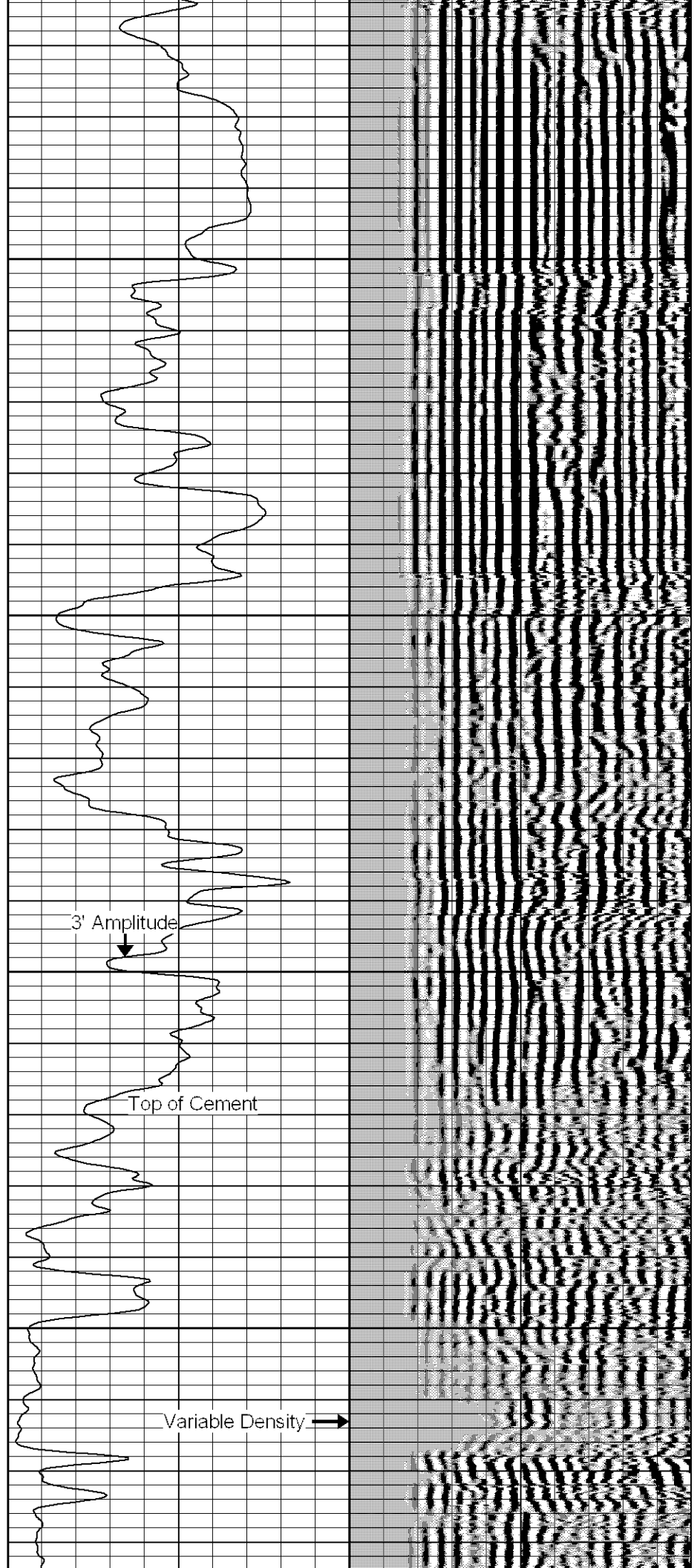


1400

1450

1500

1550





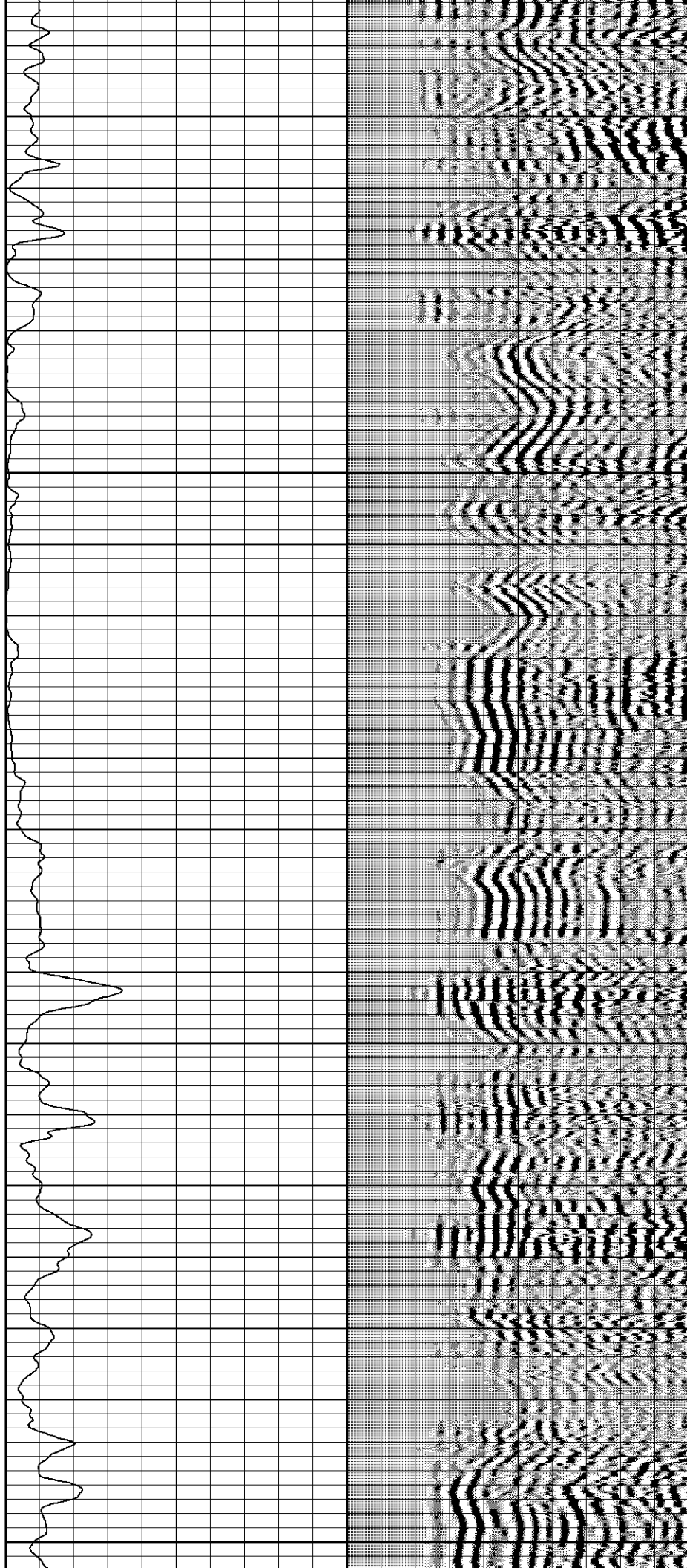
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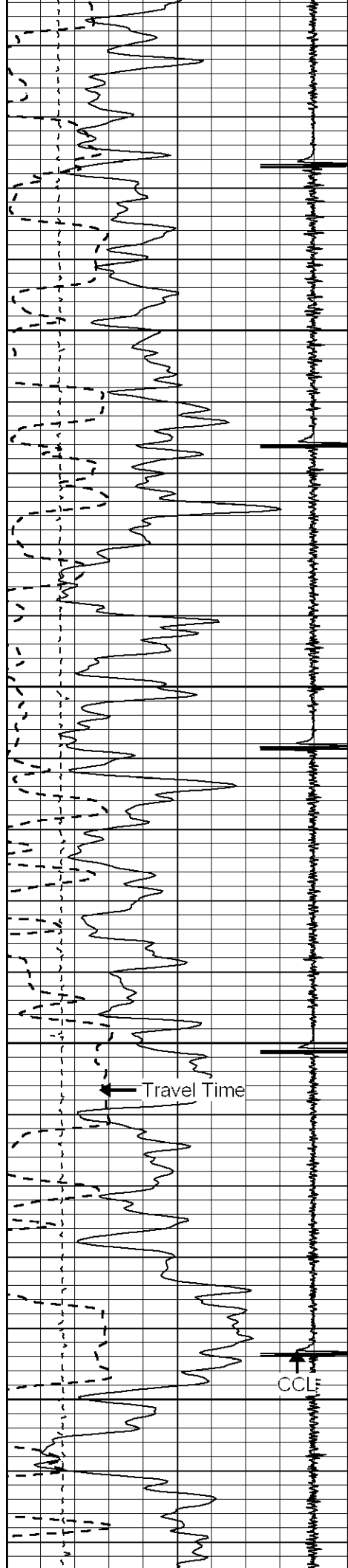
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1700

1750

1800





1850

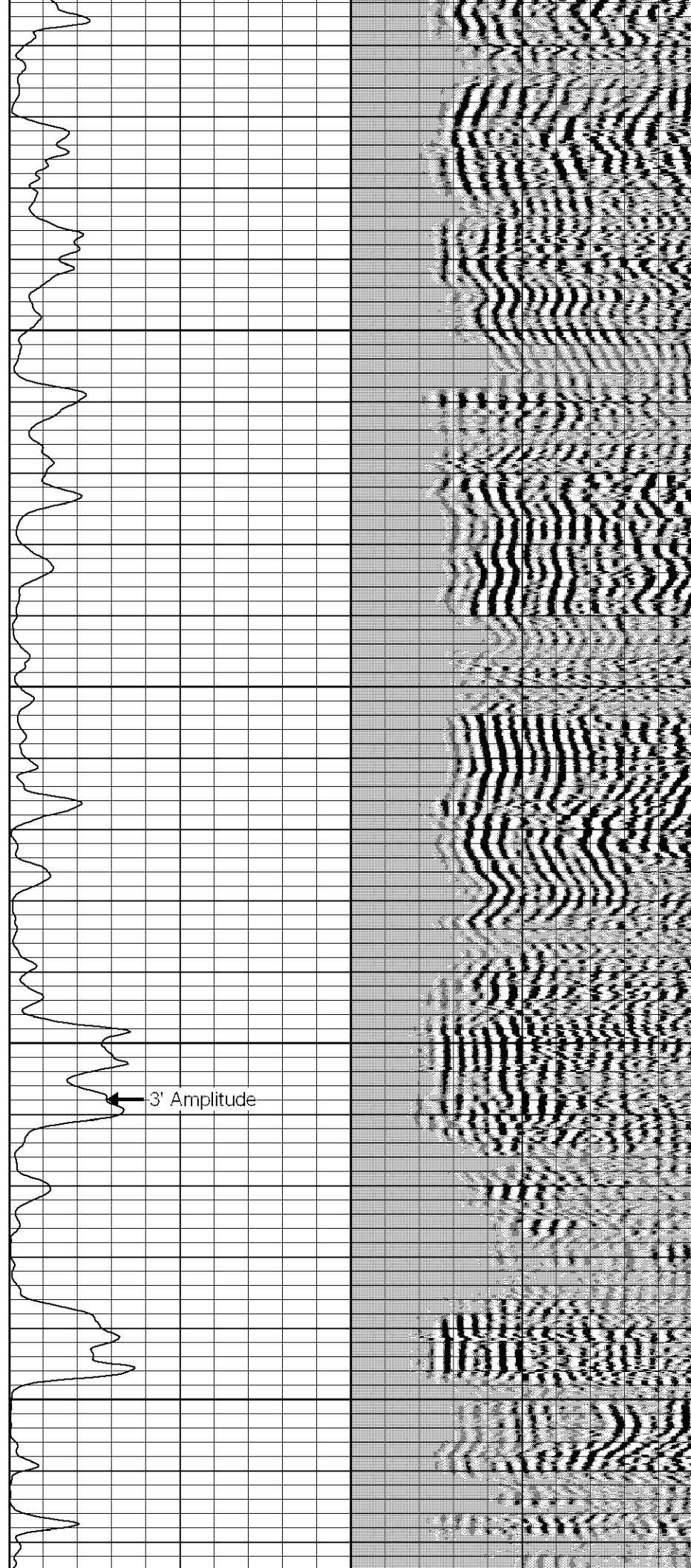
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1950

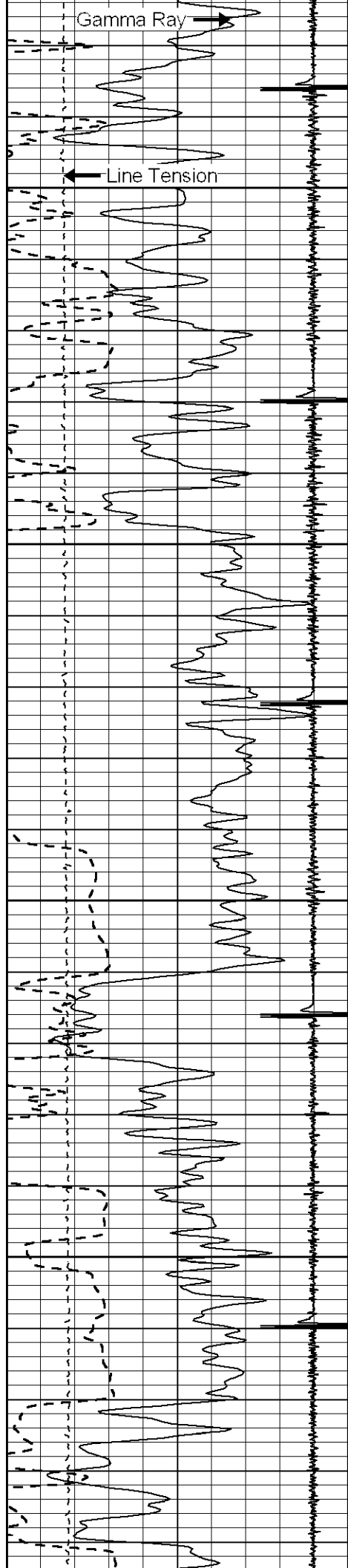
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Travel Time

CCL



3' Amplitude

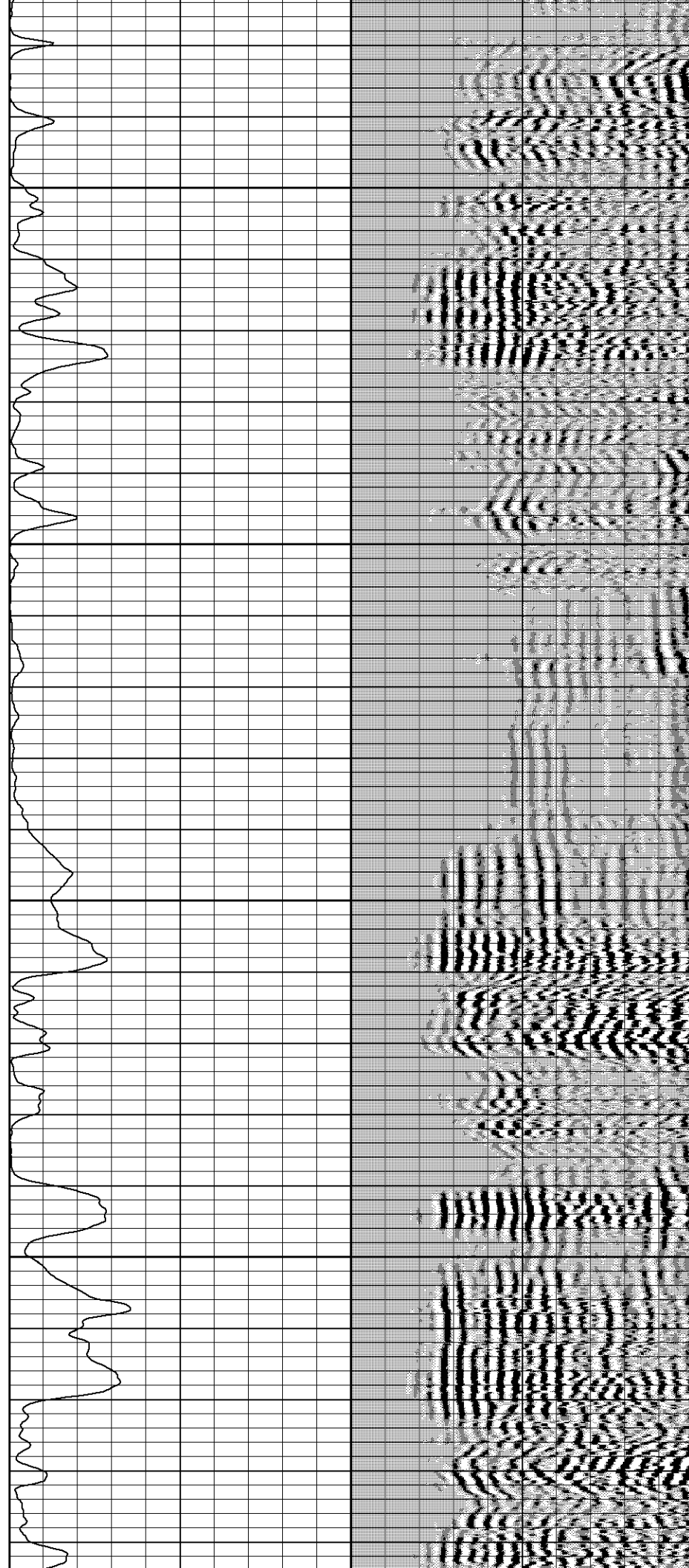


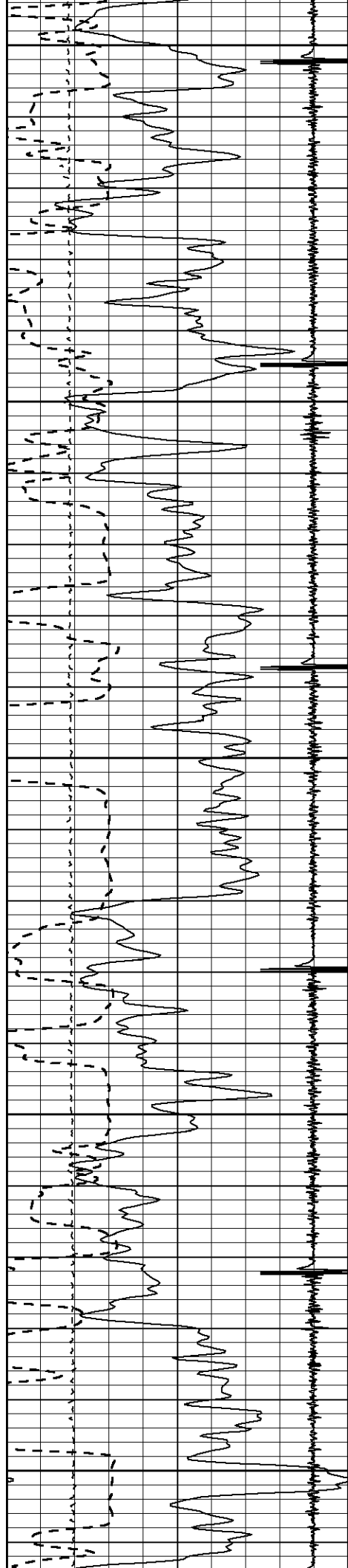
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2100

2150

2200





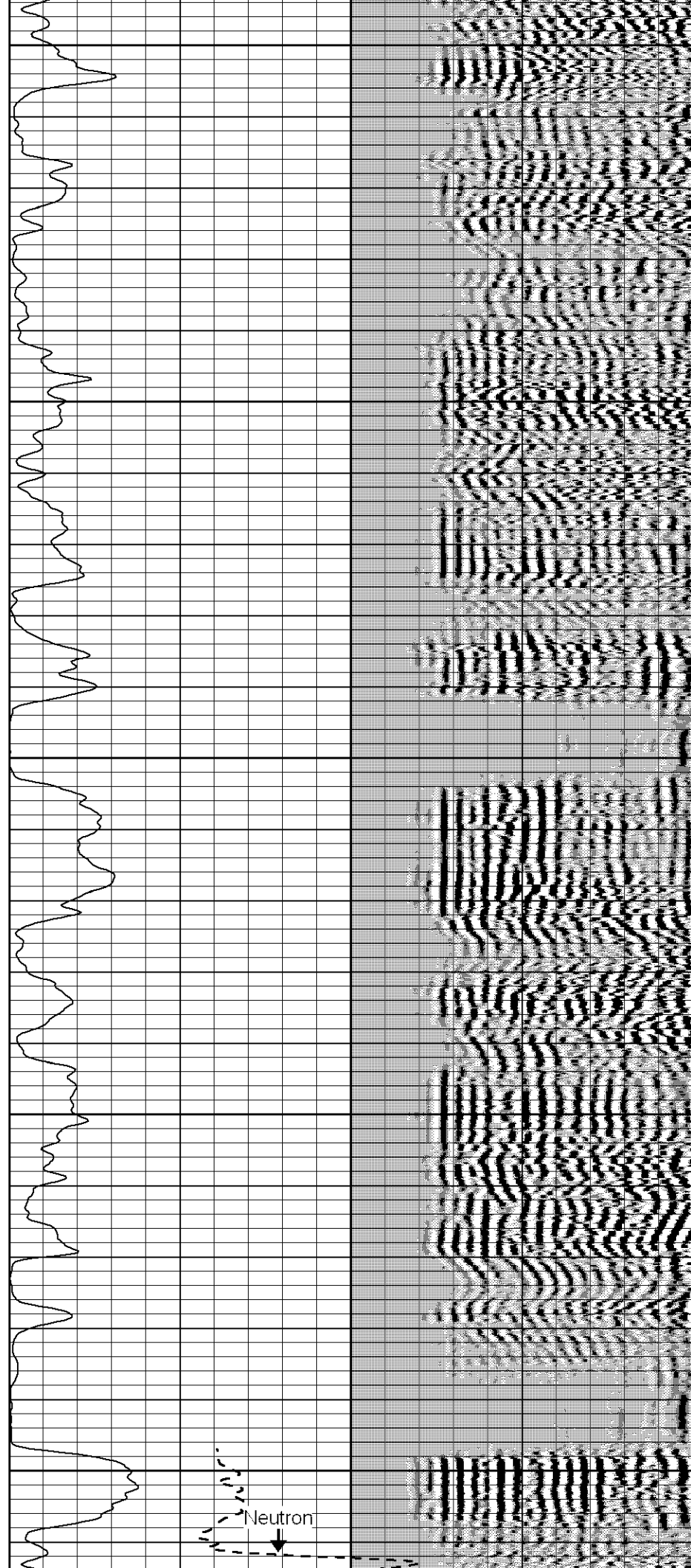
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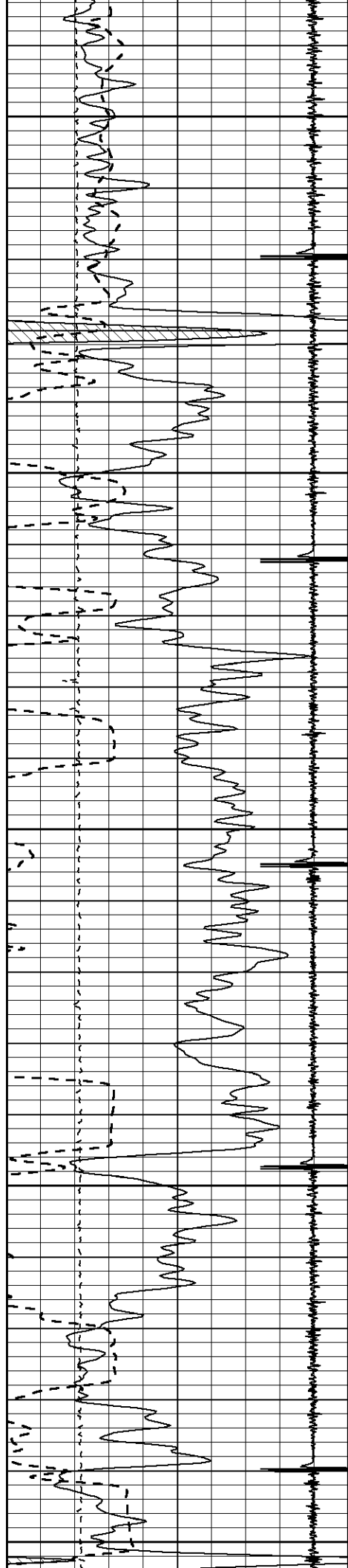
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2400

2450



Neutron



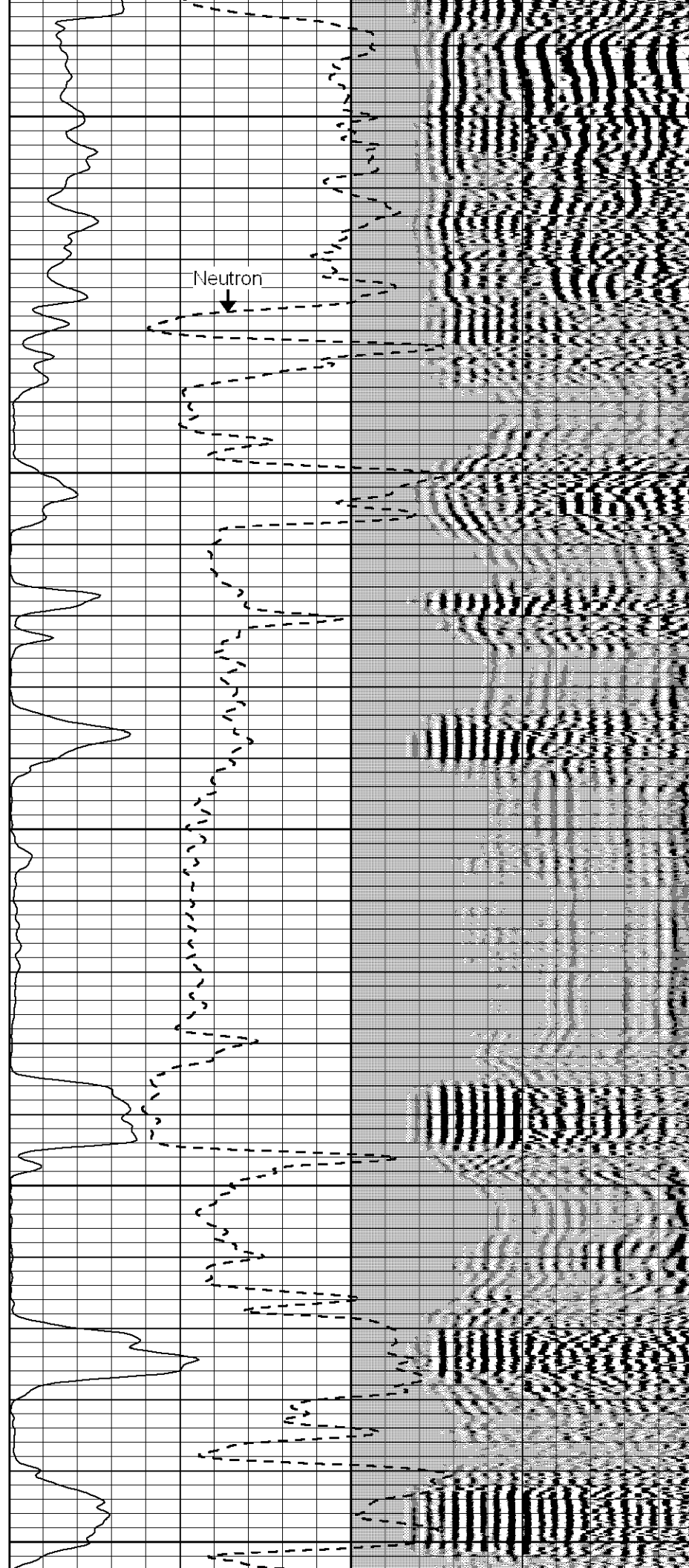
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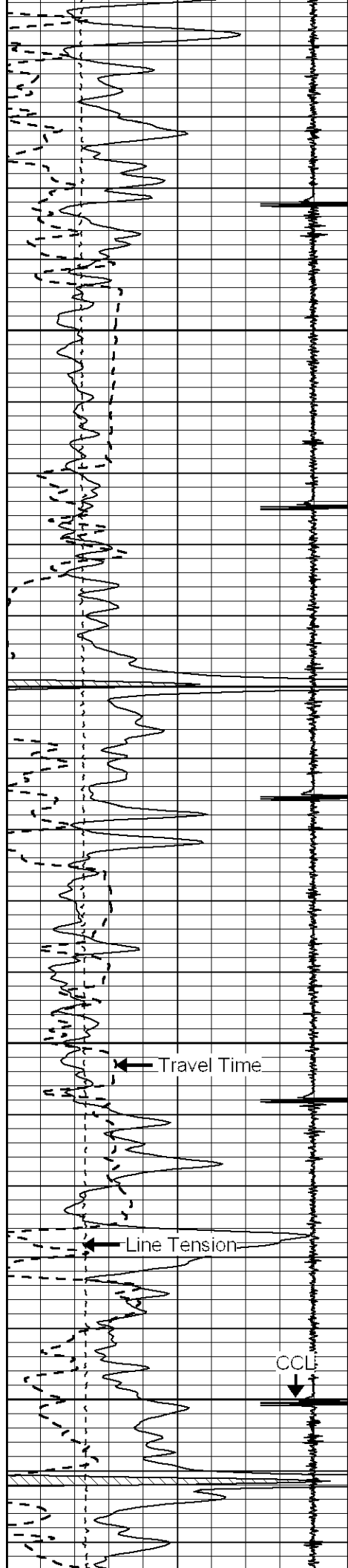
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2850

2900



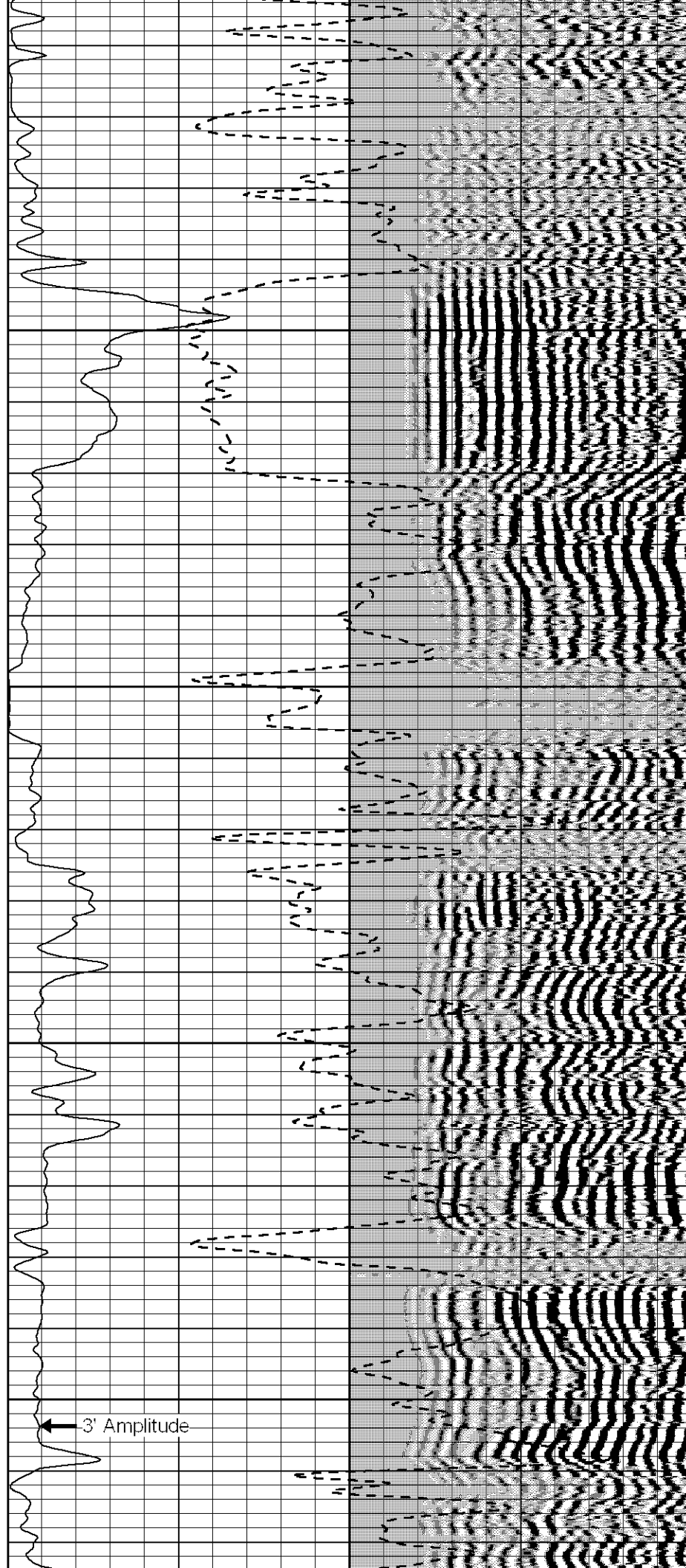


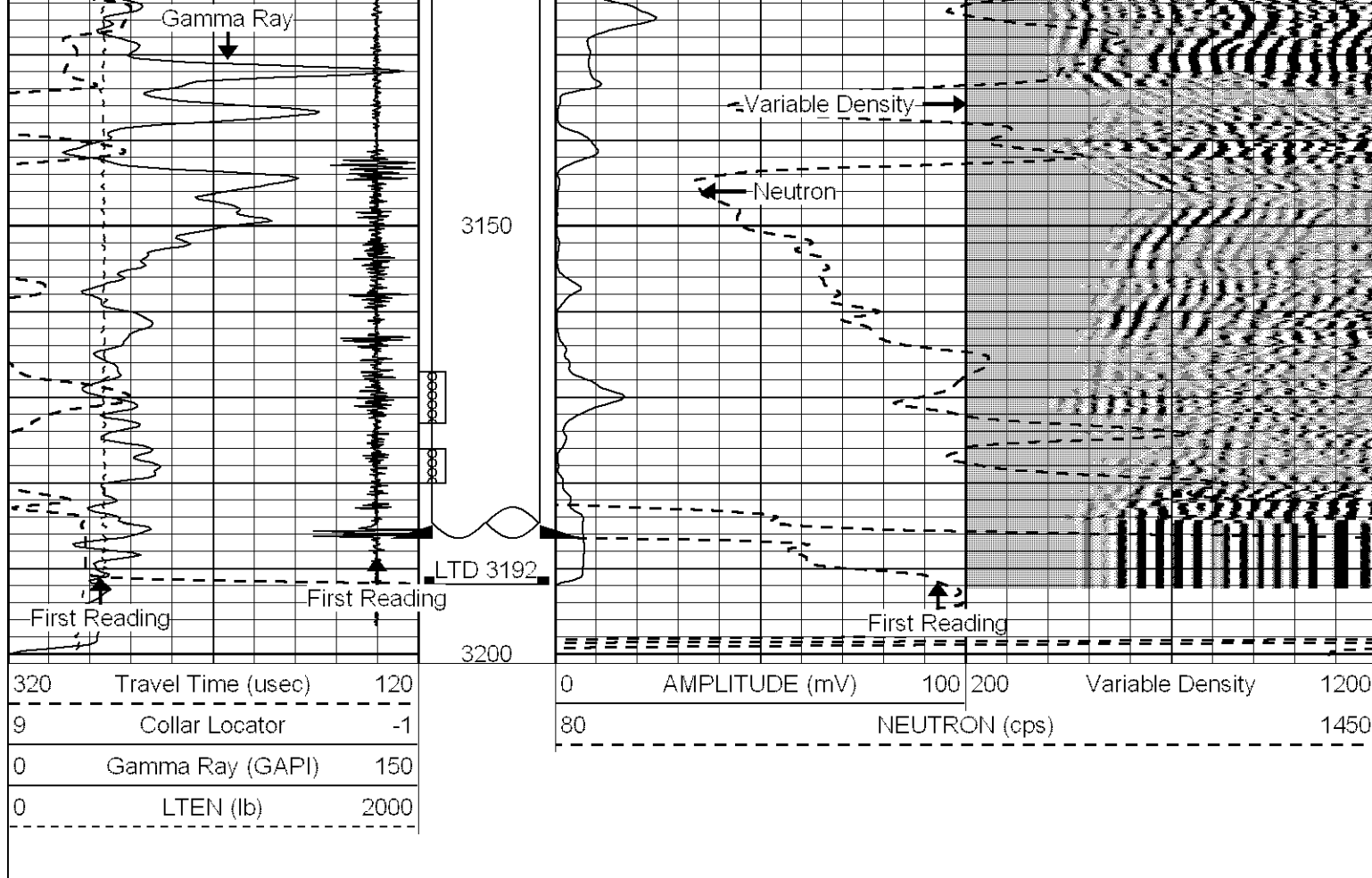
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3000

3050

3100

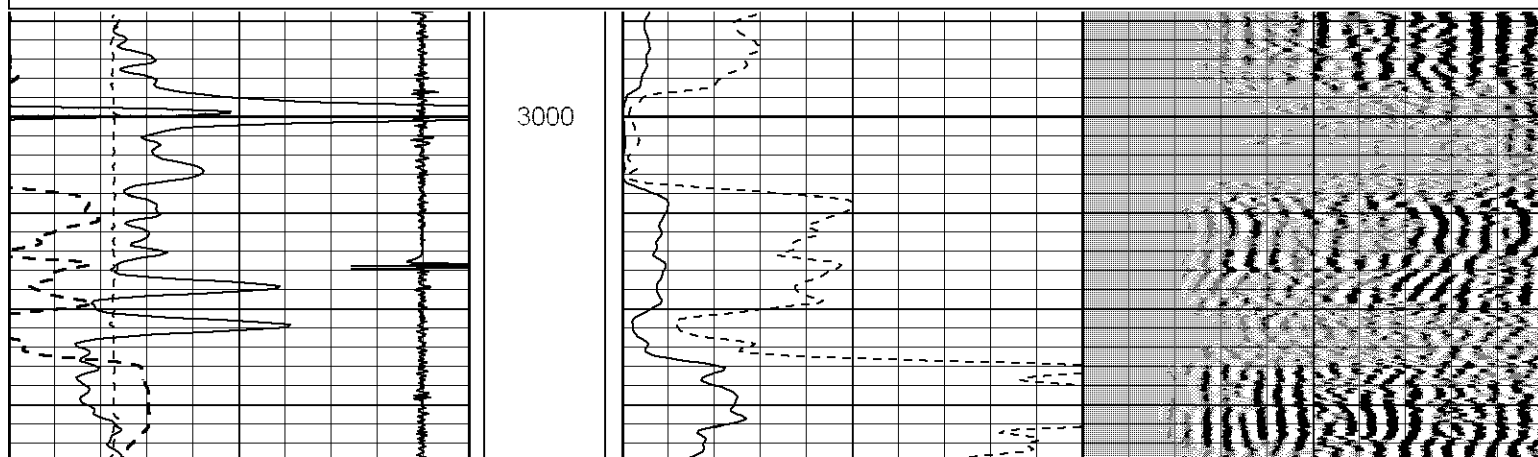
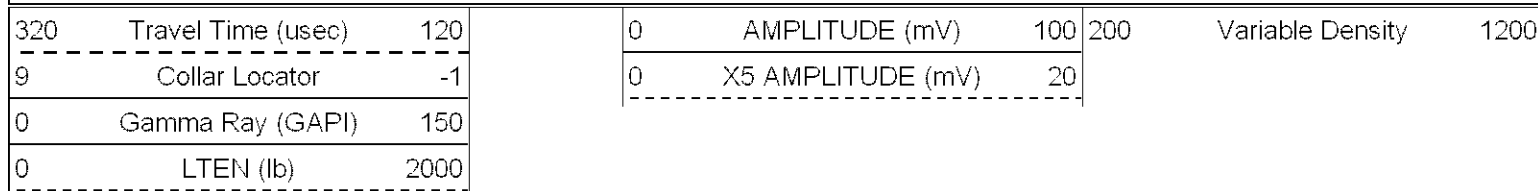


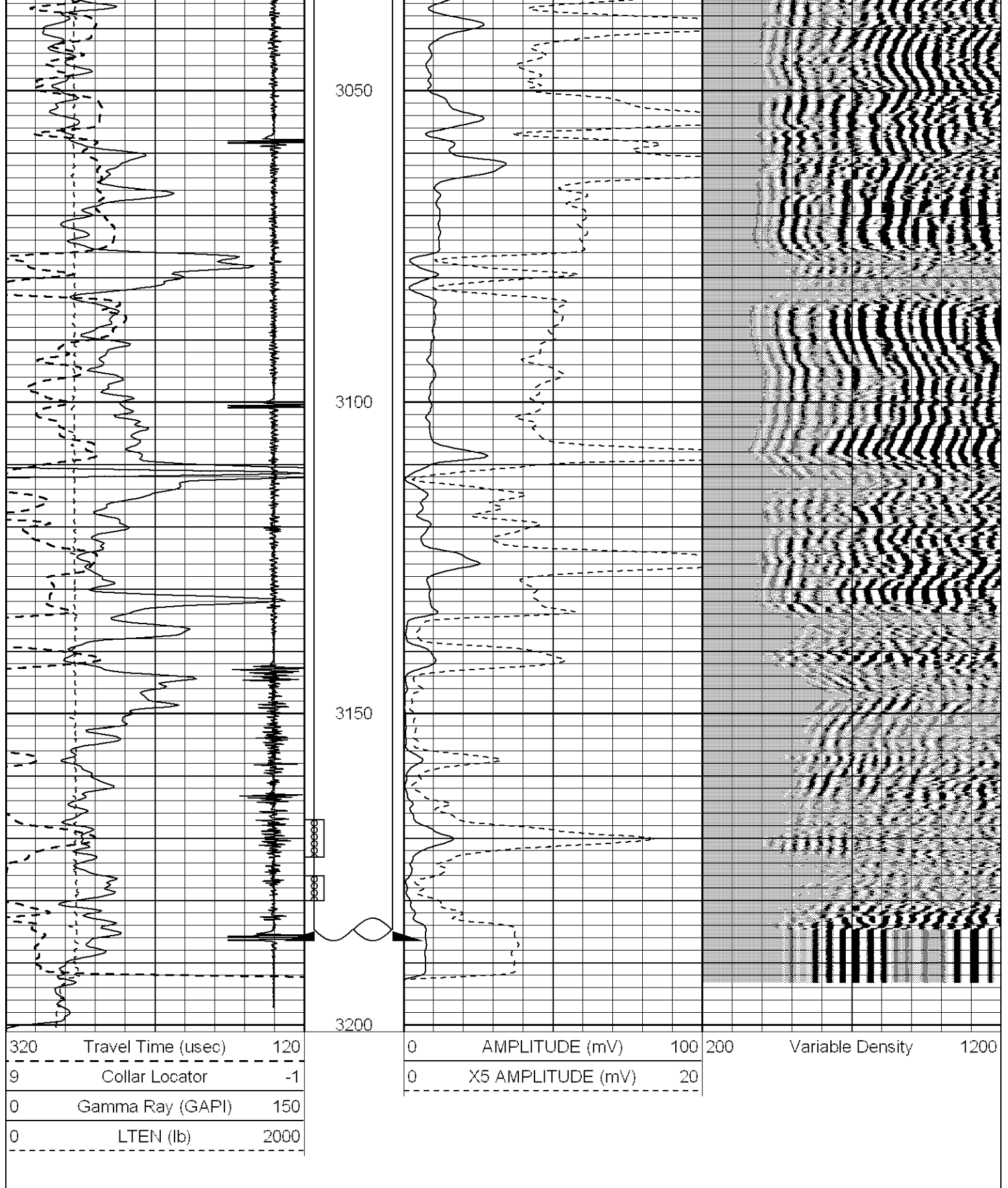


LOG-TECH
of Kansas Inc.
 GREAT BEND, KANSAS

REPEAT SECTION

Database File: volkl.db
 Dataset Pathname: pass6
 Presentation Format: cbl02
 Dataset Creation: Tue Apr 22 14:39:17 2014 by Log 6.1
 Charted by: Depth in Feet scaled 1:240

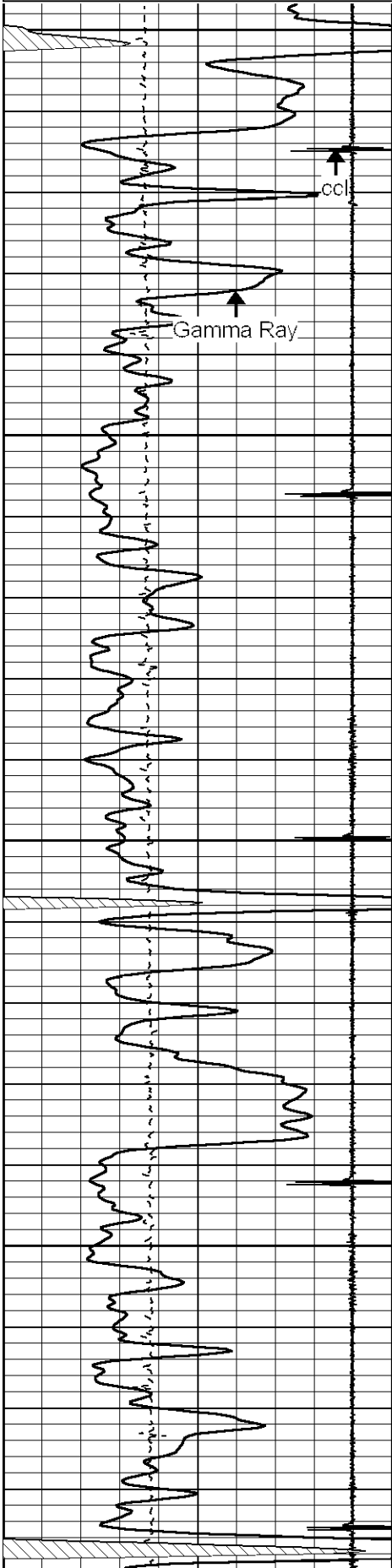




Database File: volkl.db
Dataset Pathname: pass4
Presentation Format: gr-n-ccl
Dataset Creation: Tue Apr 22 13:46:26 2014 by Log 6.1
Charted by: Depth in Feet scaled 1:240

0 GR (GAPI) 150 80 NEUTRON (cps) 1450

0	LTEN (lb)	1000
150	GR (GAPI)	300
300	GR (GAPI)	450
9	ccl	-1

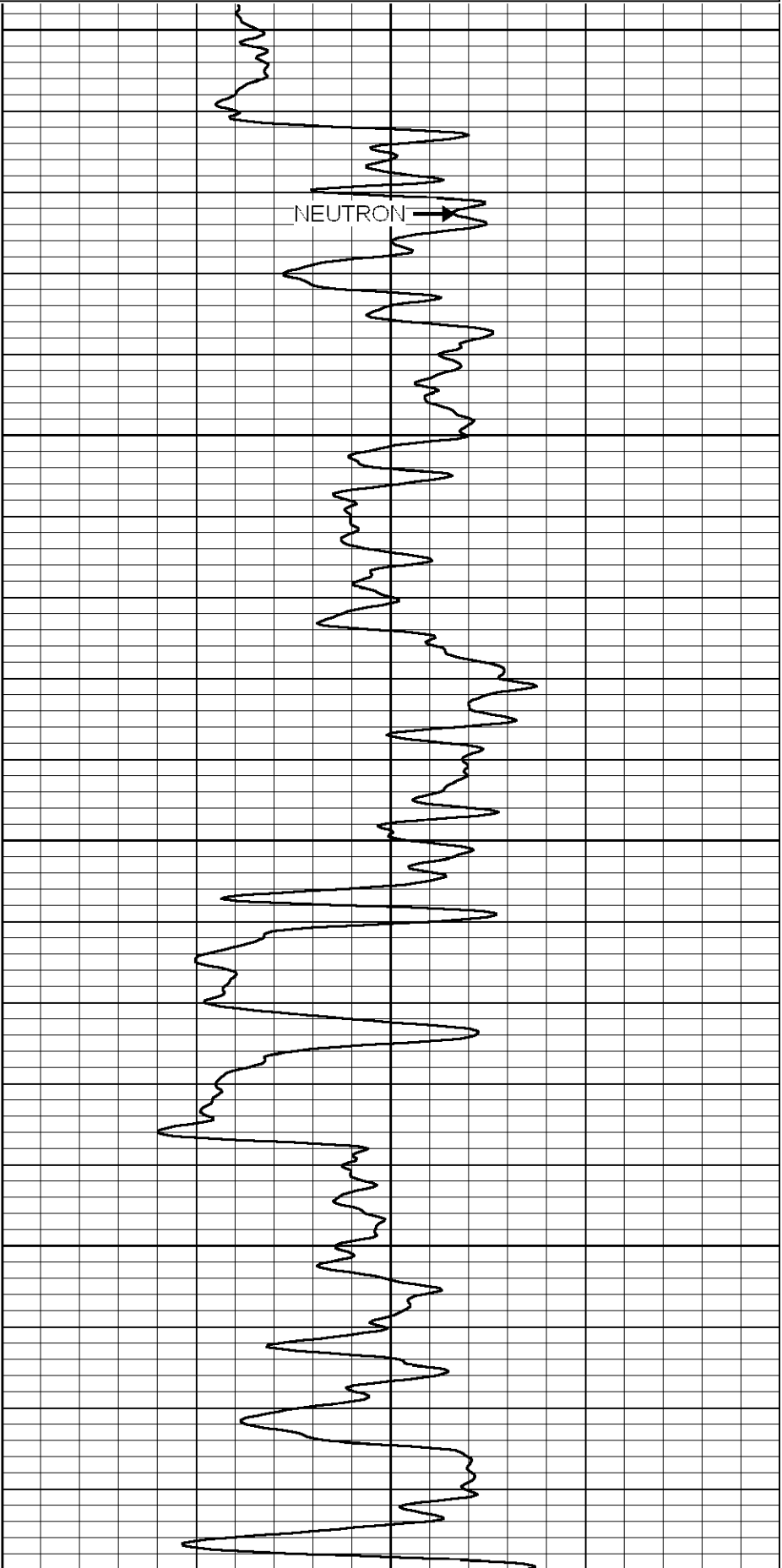


2450

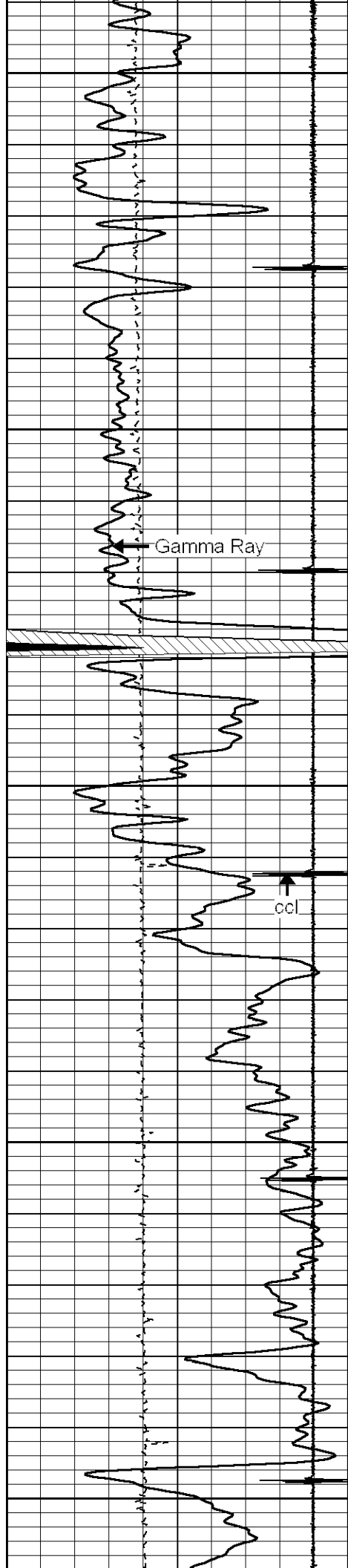
2500

2550

2600



NEUTRON



2650

2700

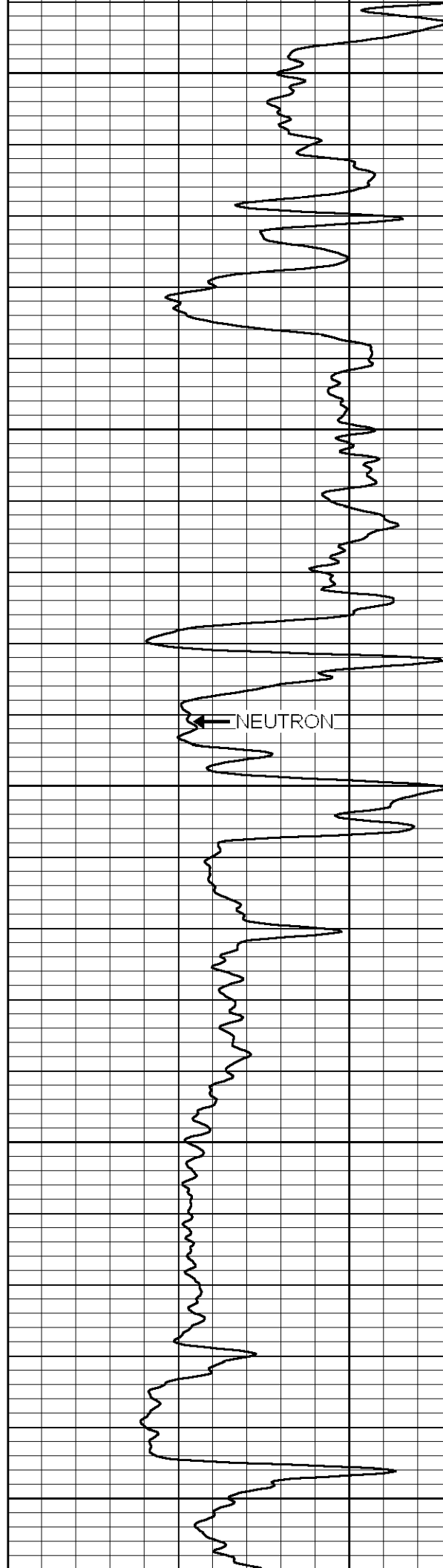
2750

2800

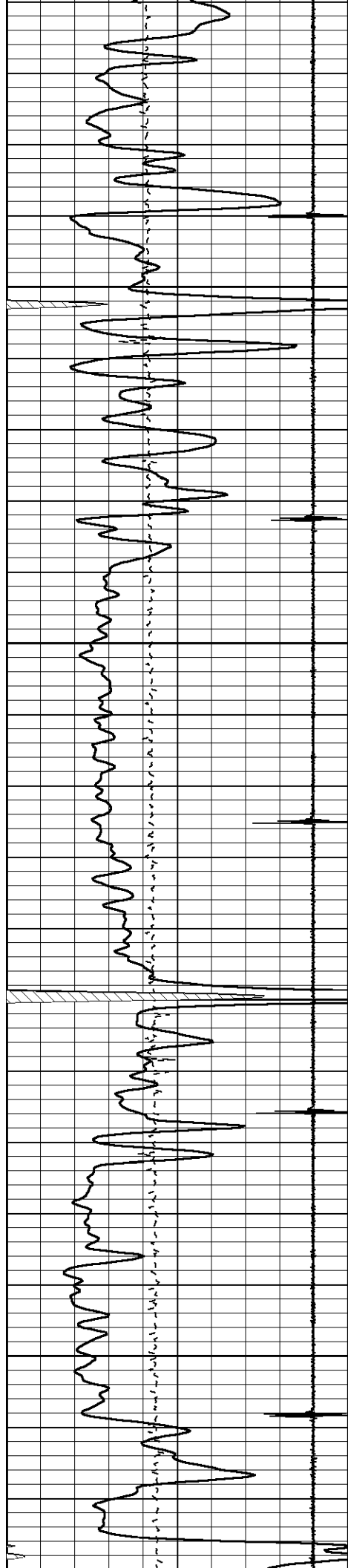
2850

Gamma Ray

OOI



NEUTRON

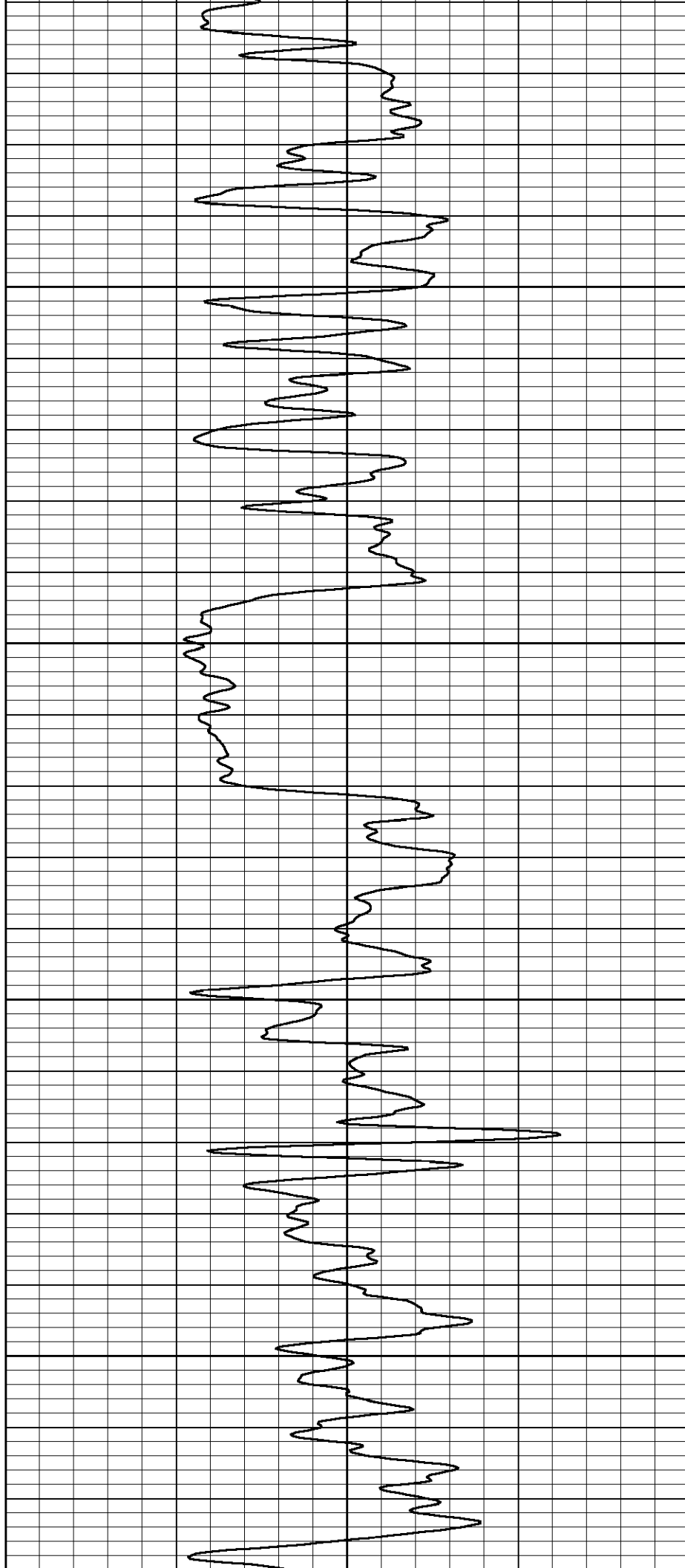


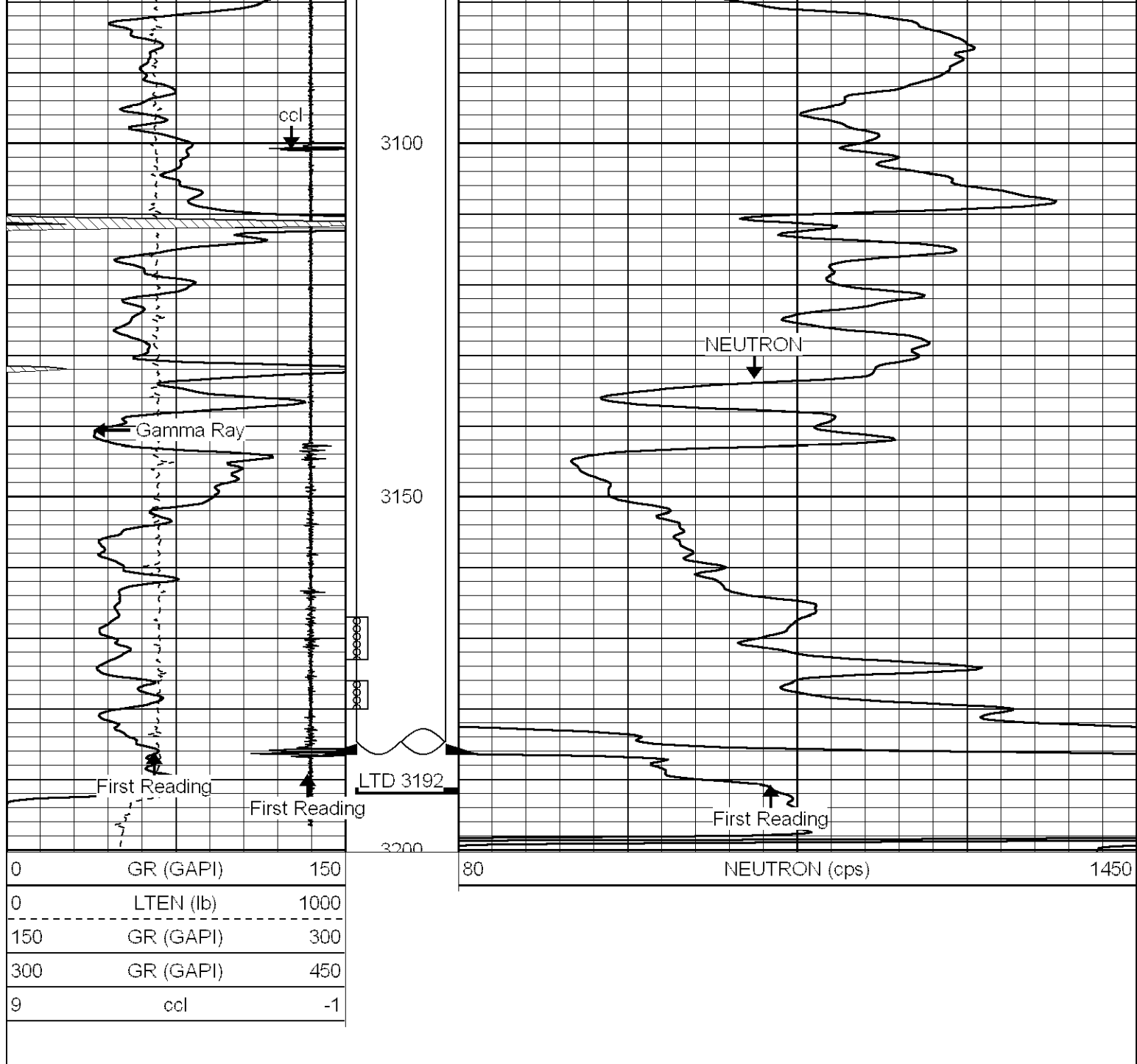
2900

2950

3000

3050



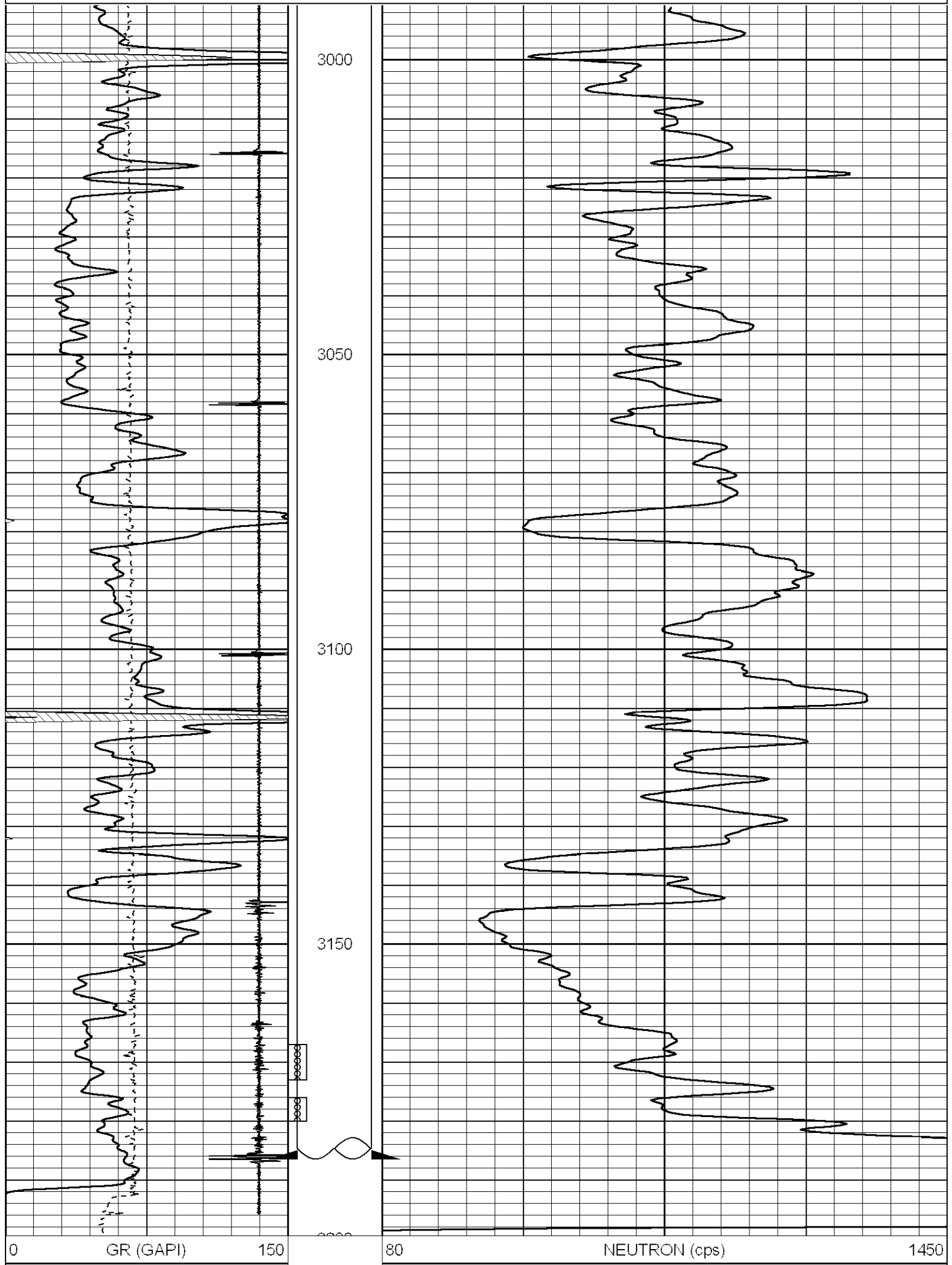


LOG-TECH
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 GREAT BEND, KANSAS

REPEAT SECTION

Database File: volkl.db
 Dataset Pathname: pass3
 Presentation Format: gr-n-ccl
 Dataset Creation: Tue Apr 22 13:36:29 2014 by Log 6.1
 Charted by: Depth in Feet scaled 1:240

0	GR (GAPI)	150	80	NEUTRON (cps)	1450
0	LTEN (lb)	1000			
150	GR (GAPI)	300			
300	GR (GAPI)	450			
9	ccl	-1			



0	LTEN (lb)	1000
150	GR (GAPI)	300
300	GR (GAPI)	450
9	ccl	-1

[illegible]



TREATMENT REPORT

Acid Stage No. _____

Date 4/8/2014 District G.B. F.O. No. C40035
Company Mike Kelso Oil
Well Name & No. Volland #7
Location _____
County Rock State TX
Geology Shale 2.5' Type & Vol. 5.4' 2.8' 2.0' 2.0'
Description _____
Description _____
Description _____
Description _____
Description _____
Open Shale Type & Vol. _____ Type & Vol. _____
Completion Perf or Workover from _____
Logging See & log Logging at _____
Perforated from _____ to _____
Open Hole Size _____ T.D. _____ ft. P.B. to _____ ft.

Type Treatment _____ Acid _____ Type Fluid _____ Sand Size _____ Pounds of Sand _____
Blowdown _____ Bbl./Gal. _____
_____ Bbl./Gal. _____
_____ Bbl./Gal. _____
_____ Bbl./Gal. _____
_____ Bbl./Gal. _____
Treated from _____ ft. to _____ ft. No. ft. 0
_____ ft. to _____ ft. No. ft. 0
_____ ft. to _____ ft. No. ft. 0
Reduced Volume of Oil Water to Load water _____ Bbl./Gal.
Pump Tractor See Log 320 50 Twin
Auxiliary Equipment 360/310
Personnel Nathan Greg Mike
Auxiliary Tools _____
Plugging or Sealing Materials: Type _____
_____ Gals. _____ lb.

Company Representative Mike Kelso Treater Nathan W.

TIME	PRESSURES		Total Fluid Pumped	REMARKS
	Tubing	Casing		
5:30		5.5"		On Location. Laying down collars.
				Hole 3188'
				Pipe-3186' Centralizers-1-3-5-7-9-43-46
				Baffle-3144' Baskets-2-44
				Port Collar-1280' JT# 45
				Land pipe and break circulation with mud pump. Circulate for 30 minutes
				Plug Rat Hole with 30sks 60/40poz
				Tie on 5.5" casing. Mix 50sks 60/40poz
				Mix 175sks 60/40poz 2% Gel, 18% Salt, .5% C-37, .5% C41p, 5#/sk. Gilsonite.
				Displace with 76.7bbls at 6.75bpm-1000# Plug landed at 1300# Pressured up to 1600#
10:30				Released pressure. Float held
				Thank You!
				Nathan W.

[illegible]

Copeland Acid & Cement

Mike Kelso Oil

Volkland #7 5.5"-14#

1	42.45	3,144.07	21	42.48	2296.74	41	42.47	1450.13	61	42.15	601.09	81		7.00	101		7.00	121		7.00
2	42.46	3,101.61	22	42.43	2254.31	42	42.45	1407.68	62	42.45	558.64	82		7.00	102		7.00	122		7.00
3	42.42	3,059.19	23	42.45	2211.86	43	42.43	1365.25	63	42.40	516.24	83		7.00	103		7.00	123		7.00
4	42.44	3,016.75	24	43.55	2168.31	44	42.44	1322.81	64	42.42	473.82	84		7.00	104		7.00	124		7.00
5	40.64	2,976.11	25	43.62	2124.69	45	42.48	1280.33	65	42.44	431.38	85		7.00	105		7.00	125		7.00
6	42.43	2,933.68	26	42.40	2082.29	46	42.45	1237.88	66	42.48	388.90	86		7.00	106		7.00	126		7.00
7	42.44	2,891.24	27	43.75	2038.54	47	42.38	1195.50	67	42.43	346.47	87		7.00	107		7.00	127		7.00
8	42.44	2,848.80	28	42.34	1996.20	48	42.43	1153.07	68	42.43	304.04	88		7.00	108		7.00	128		7.00
9	42.43	2,806.37	29	42.44	1953.76	49	42.43	1110.64	69	42.39	261.65	89		7.00	109		7.00	129		7.00
10	42.80	2,763.57	30	42.54	1911.22	50	42.41	1068.23	70	42.42	219.23	90		7.00	110		7.00	130		7.00
11	42.43	2,721.14	31	42.48	1868.74	51	42.42	1025.81	71	42.47	176.76	91		7.00	111		7.00	131		7.00
12	42.40	2,678.74	32	39.38	1829.36	52	41.83	983.98	72	42.50	134.26	92		7.00	112		7.00	132		7.00
13	42.40	2,636.34	33	42.45	1786.91	53	42.48	941.50	73	42.42	91.84	93		7.00	113		7.00	133		7.00
14	42.50	2,593.84	34	43.04	1743.87	54	42.47	899.03	74	42.44	49.40	94		7.00	114		7.00	134		7.00
15	42.40	2,551.44	35	39.11	1704.76	55	42.50	856.53	75	42.40	7.00	95		7.00	115		7.00	135		7.00
16	42.43	2,509.01	36	42.46	1662.30	56	42.43	814.10	76		7.00	96		7.00	116		7.00	136		7.00
17	42.50	2,466.51	37	42.45	1619.85	57	43.51	770.59	77		7.00	97		7.00	117		7.00	137		7.00
18	42.40	2,424.11	38	42.43	1577.42	58	42.43	728.16	78		7.00	98		7.00	118		7.00	138		7.00
19	42.46	2,381.65	39	42.42	1535.00	59	42.47	685.69	79		7.00	99		7.00	119		7.00	139		7.00
20	42.43	2,339.22	40	42.40	1492.60	60	42.45	643.24	80		7.00	100		7.00	120		7.00	140		7.00
847.30			846.62			849.36			636.24			0.00			0.00			0.00		
			1693.92			2543.28			3179.52			3179.52			3,179.52			3179.52		

Joints 75 Total Feet = 3179.52

Casing Vol. 76.7 bbls. K.B. 7

Total = 3186.52

Centralizers- 1,3,5,7,9,43,46

Baskets 2,44

Baffle 3144'

Port Collar- 1280' 17#

Joints Out 6