Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1196141

Form ACO-1
August 2013
Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 34320
Name: Lasso Energy LLC
Address 1: PO BOX 465
Address 2: 1125 South Main
City: CHASE State: KS Zip: 67524 + 0465
Contact Person: Matt Burton
Phone: (620) 259-4000
CONTRACTOR: License # 33948
Name: C & J Production LLC
Wellsite Geologist: Kurt Talbott
Purchaser: NCRA

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: Arrington CJM, Inc
Well Name: HBFB #1-7
Original Comp. Date: 07/24/2012 Original Total Depth: 4520

☐ 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 #:

03/17/2014		03/25/2014
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-063-21977-00-01
Spot Description:
_ - _ - SW - SW Sec. 7 Twp. 14 S. R. 28 ☐ East ☑ West
660 Feet from ☐ North / ☑ South Line of Section
660 Feet from ☐ East / ☑ West Line of Section

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

GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Gove
Lease Name: HBFB Well #: 1-7
Field Name: Mabel L
Producing Formation: LKC, Marmaton, Pawnee, Myrick Station, Johnson
Elevation: Ground: 2666 Kelly Bushing: 2677
Total Vertical Depth: 4520 Plug Back Total Depth: 4394
Amount of Surface Pipe Set and Cemented at: 304 Feet
Multiple Stage Cementing Collar Used? ☑ Yes ☐ No
If yes, show depth set: 2301 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: 03/26/2014
☑ **Confidential Release Date:** 03/25/2016
☐ **Wireline Log Received**
☐ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 03/27/2014

[redacted] 1196141

Operator Name: Lasso Energy LLC Lease Name: HBFB Well #: 1-7

Sec. 7 Twp. 14 S. R. 28 ☐ East ☑ West County: Gove

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

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

Drill Stem Tests Taken ☐ Yes ☑ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☐ Yes ☑ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:

LogTech of Kansas - Cement Bond Log

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

Name: Attached Top: Attached Datum: Attached

CASING RECORD ☑ New ☐ Used
Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12.25	8.625	24	304	Class A	220	2% gel
Production	7.875	5.5	15.5	4395	ASCA	635	5# gilsonite

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
☐ Perforate ☐ Protect Casing ☑ Plug Back TD ☑ Plug Off Zone	4394-4520	Common	75	1% Fluid Loss Additive
	-			

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
Attached	Attached	Attached	Attached

TUBING RECORD: Size: 2.375 Set At: 4406 Packer At: N/A

Liner Run: ☐ Yes ☑ No

Date of First, Resumed Production, SWD or ENHR. 03/27/2014

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

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	161		0		

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

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

PRODUCTION INTERVAL:
LKC, LKC, Marmaton, Pawnee, Myrick Station, Johnson
4013'-4017', 4070'-4074', 4190'-4194', 4224'-4228', 4283'-4286', 4394'-4406'

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

Form	ACO1 - Well Completion
Operator	Lasso Energy LLC
Well Name	HBFB 1-7
Doc ID	1196141

Tops

Name	Top	Datum
Anhydrite	2118	559
Base Anhydrite	2153	524
Heebner	3779	-1102
Toronto	3799	-1122
Lansing	3819	-1142
Stark Shale	4057	-1380
Base Kansas City	4113	-1436
Marmaton	4156	-1479
Pawnee	4224	-1547
Ft. Scott	4311	-1634
Cherokee Shale	4341	-1664

Form	ACO1 - Well Completion
Operator	Lasso Energy LLC
Well Name	HBFB 1-7
Doc ID	1196141

Perforations

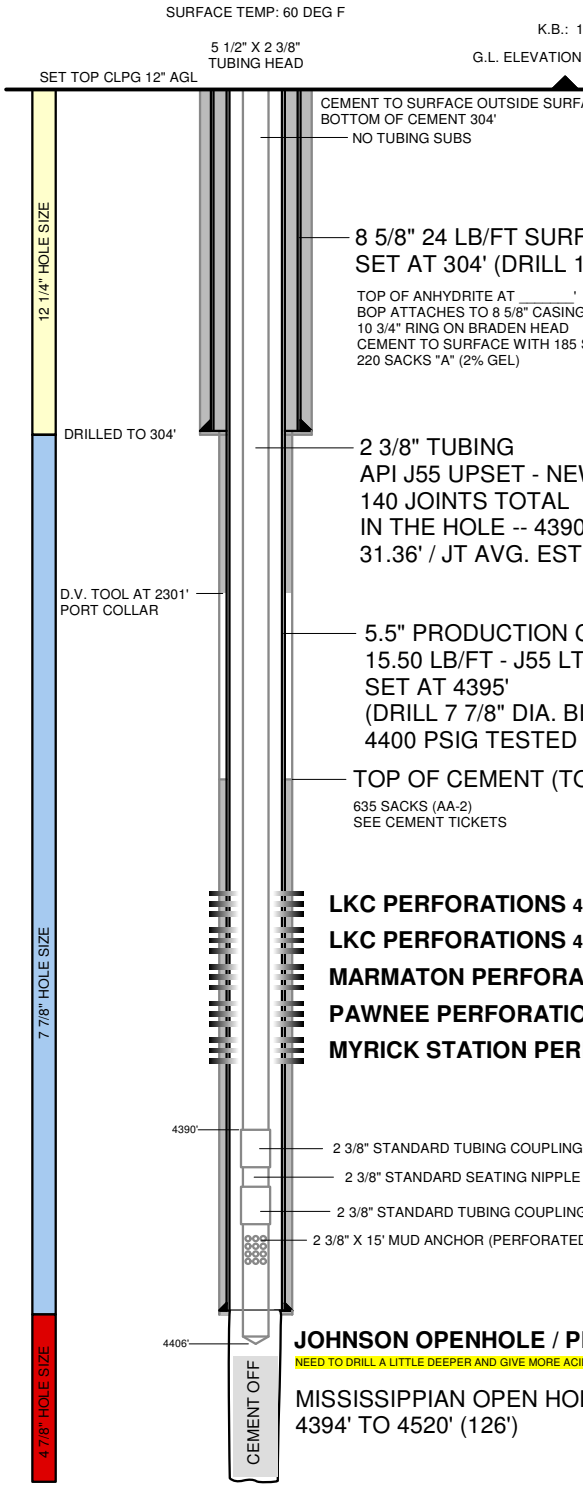
Shots Per Foot	Perforation Record	Material Record	Depth
4	Johnson Formation Perforations	48 holes	4394'-4406'
0	Johnson Formation Acid	750 gal 15% NE-FE acid	4394'-4406'
4	Myrick Station Formation Perforations	12 holes	4283'-4286'
0	Myrick Station Formation Acid	500 gal 15% NE-FE acid	4283'-4286'
4	Pawnee Formation Perforations	16 holes	4224'-4228'
0	Pawnee Formation Acid	500 gal 15% NE-FE acid	4224'-4228'
4	Marmaton Formation Perforations	16 holes	4190'-4194'
0	Marmaton Formation Acid	500 gal 15% NE-FE acid	4190'-4194'
4	LKC Formation Perforations	16 holes	4070'-4074'
0	LKC Formation Acid	500 gal 15% NE-FE acid	4070'-4074'
4	LKC Formation Perforations	16 holes	4013'-4017'
0	LKC Formation Acid	500 gal 15% NE-FE acid	4013'-4017'

Form	ACO1 - Well Completion
Operator	Lasso Energy LLC
Well Name	HBFB 1-7
Doc ID	1196141

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	24	304	Class A	220	2% gel
Production	7.875	5.5	15.5	4395	ASCA	635	5# gilsonite

REVISION:	LOCATION:	WELL No:	REV.
03/25/2014	07-T14S-R28W GOVE COUNTY, KANSAS	#1-7	



NOTES:

PUMPING UNIT: C - 114 - 140 - 54 (54" SURFACE STROKE)
CONVENTIONAL LUFKIN UNIT
20 HP ELECTRIC MOTOR WITH 40 HP SPOCC VFD
VFD INSTALLED
RUN TIME: 24 HRS PER DAY
1.25" X 14' POLISHED ROD WITH LINER ASSEMBLY
1.50" HARD FACED POLISHED ROD LINER X 8'
NO PONY RODS ON TOP
153 3/4" GRADE D SUCKER RODS ON TOP (NEW)
20 7/8" GRADE D SUCKER RODS ON BOTTOM AS SINKER BARS (NEW)
2' X 7/8" PONY ROD ON BOTTOM (ON TOP OF INSERT PUMP)
SPEED RANGE: 4 TO 16 SPM
MAX. SPEED: 16 SPM
CURRENT SPEED: 8 SPM
NO TUBING ANCHOR INSTALLED

TUBULARS

PURPOSE	CONDUCTOR	SURFACE	INTERMEDIATE	PRODUCTION	PROD. TUBING
SIZE	13 3/8"	8 5/8"		5 1/2"	2 3/8"
WEIGHT	NONE	2,946 PSIG	NONE	15.5 LB/FT	4.6 LB/FT
GRADE	NONE	J-55	NONE	J-55	J-55
BURST	NONE	24.0 LB/FT	NONE	4,812 PSIG	5,600 PSIG
COLLASPE	NONE	381,395 LBF	NONE	4,043 PSIG	5,888 PSIG
YIELD	NONE	1,434 PSIG	NONE	248,274 LBF	52,169 LBF
CAPACITY	NONE	0.064 BBLS/FT	NONE	0.024 BBLS/FT	0.004 BBLS/FT
THICKNESS	NONE	0.2640"	NONE	0.2750"	0.1900"
ID	NONE	8.0970"	NONE	4.9500"	1.9950"
DRIFT ID	NONE	7.9720"	NONE	4.8250"	1.901"
AREA	NONE	51.49 IN2	NONE	19.42 IN2	1.304 IN2
SETTING DEPTH	NONE	304'	NONE	4,395'	4,390'
LENGTH	NONE	304'	NONE	4,395'	NEED 4,520'
FOB					CHASE, KS
COST					

LKC PERFORATIONS 4013'-4017' (4') 16 HOLES → 100% OIL (322 BOPD GROSS)
LKC PERFORATIONS 4070'-4074' (4') 16 HOLES → SHOW OF OIL AND WATER
MARMATON PERFORATIONS 4190'-4194' (4') 16 HOLES → SHOW OF OIL AND WATER
PAWNEE PERFORATIONS 4224'-4228' (4') 16 HOLES → SHOW OF OIL AND WATER
MYRICK STATION PERFORATIONS 4283'-4286' (3') 12 HOLES → 24% OIL (96 BPD TOTAL FLUID)

DATE	03/24/2014
APPROVED BY	B. KELSO
AFE	
API No.	15063219770001
GL ELEVATION	2766'
KB	11'
KB ELEVATION	2767'
RIG	WORX

JOHNSON OPENHOLE / PERFORATIONS 4394'-4406' (12') → 1% OIL (80 to 140 BPD TOTAL FLUID -- DRYING UP THOUGH)

PBTD: 4520' TVD
RTD: 4520' TVD
LTD: 4520' TVD
DOWNHOLE TEMP: 130 DEG F (EST.)

DOWN HOLE SUCKER ROD PUMP:

1.5000" INSERT PUMP
PUMP LENGTH: 14' (NICARD AND SS)
BOTTOM HOLD DOWN TYPE
TRAVELING BARREL
2' X 3/4" PONY ROD ON TOP OF PUMP
8' GAS SEPERATOR ON THE BOTTOM
PUMP INTAKE DEPTH: 4404'
PUMP IS SETTING BELOW PERFORATIONS

HBFB #1-7

GOVE COUNTY, KANSAS
07-T14S-R28W
SHL: 660 FSL, 660 FWL
BHL: 660 FSL, 660 FWL
MABEL L FIELD

LassoEnergy LLC

LOG-TECH of Kansas Inc.

GREAT BEND, KANSAS

GAMMA RAY CCL LOG

Company LASSO ENERGY, LLC
Well HBFB #1-7
Field
County GOVE State KANSAS

Location

660' FSL & 660' FWL

SEC. 7 TWP. 14S RGE. 28W

Other Services

Elevation

K.B. 2677
D.F.
G.L. 2666

Permanent Datum	GROUND LEVEL	Elevation	2666
Log Measured From	KELLY BUSHING 11' AGL		
Drilling Measured From	KELLY BUSHING		

Date	3-19-2014		
Run Number	ONE		
Depth Driller	4394		
Depth Logger	4394		
Bottom Logged Interval	4393		
Top Log Interval	3500		
Open Hole Size			
Type Fluid	WATER/OIL		
Density / Viscosity			
Max. Recorded Temp.			
Estimated Cement Top			
Time Well Ready			
Time Logger on Bottom			
Equipment Number	#53		
Location	GREAT BEND		
Recorded By	LANCE GREGG		
Witnessed By	MR. WAITES		

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

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	8.625	#23	0	N/A
Prot. String				
Production String	5.5	#15.5	0	4382
Liner				

<<< Fold Here >>>

Comments

THANK YOU FOR USING LOG TECH OF KANSAS

MAIN PASS

LOG-TECH of Kansas Inc.

GREAT BEND, KANSAS

Database File:	hbfb7.db
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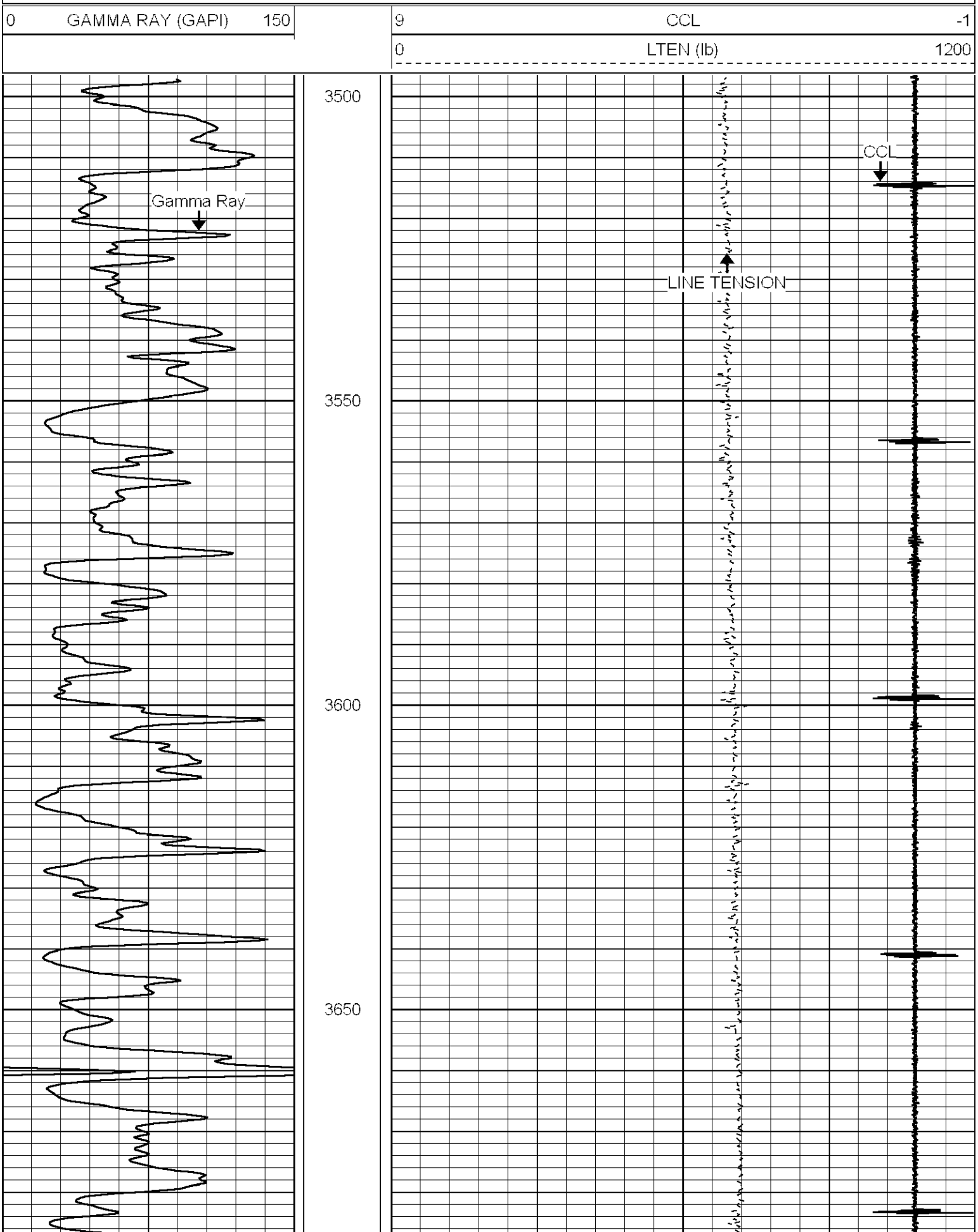
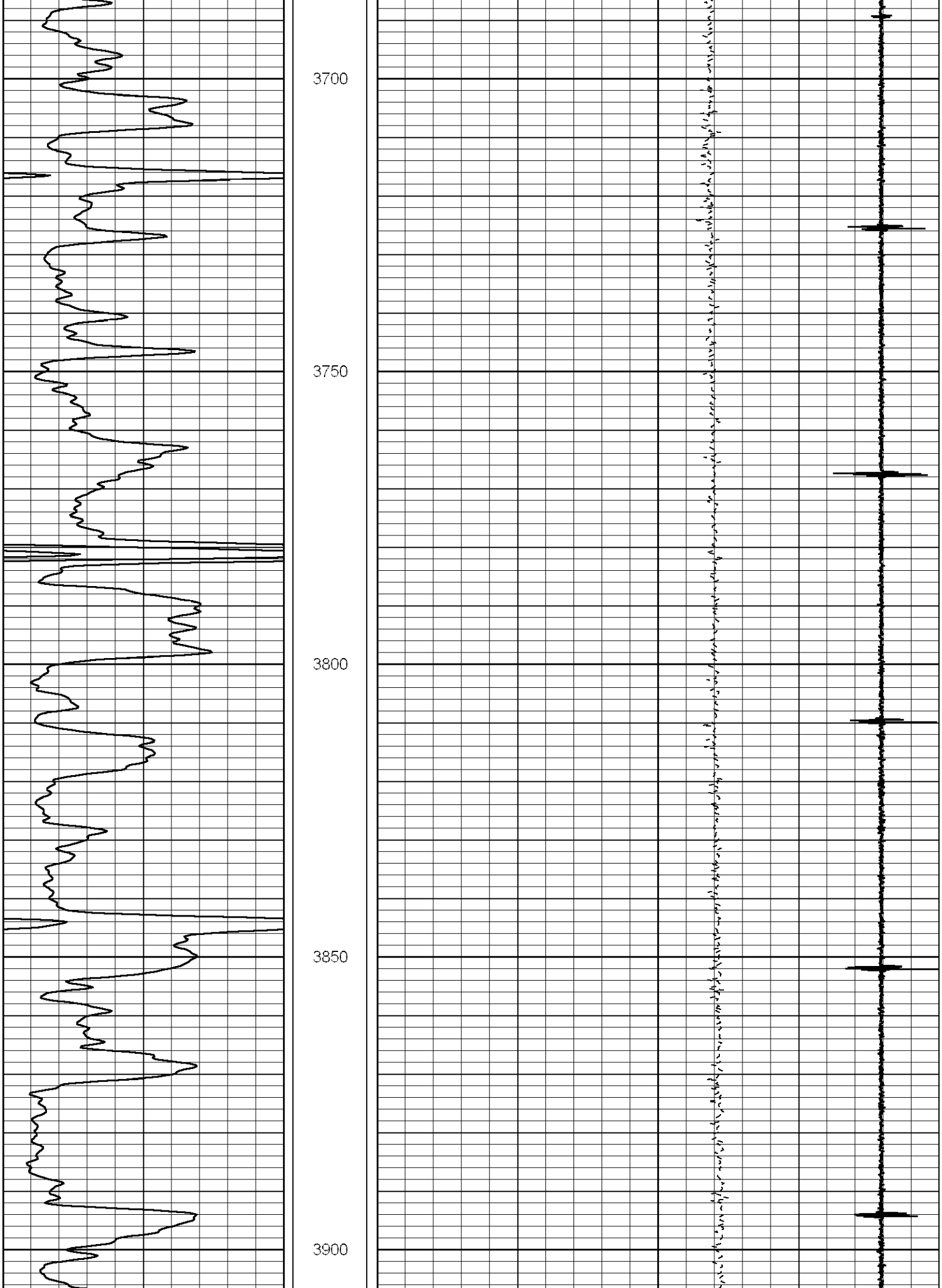
Presentation Format:	gr-ccl
Dataset Creation:	Wed Mar 19 08:25:04 2014 by Log 6.1
Charted by:	Depth in Feet scaled 1:240

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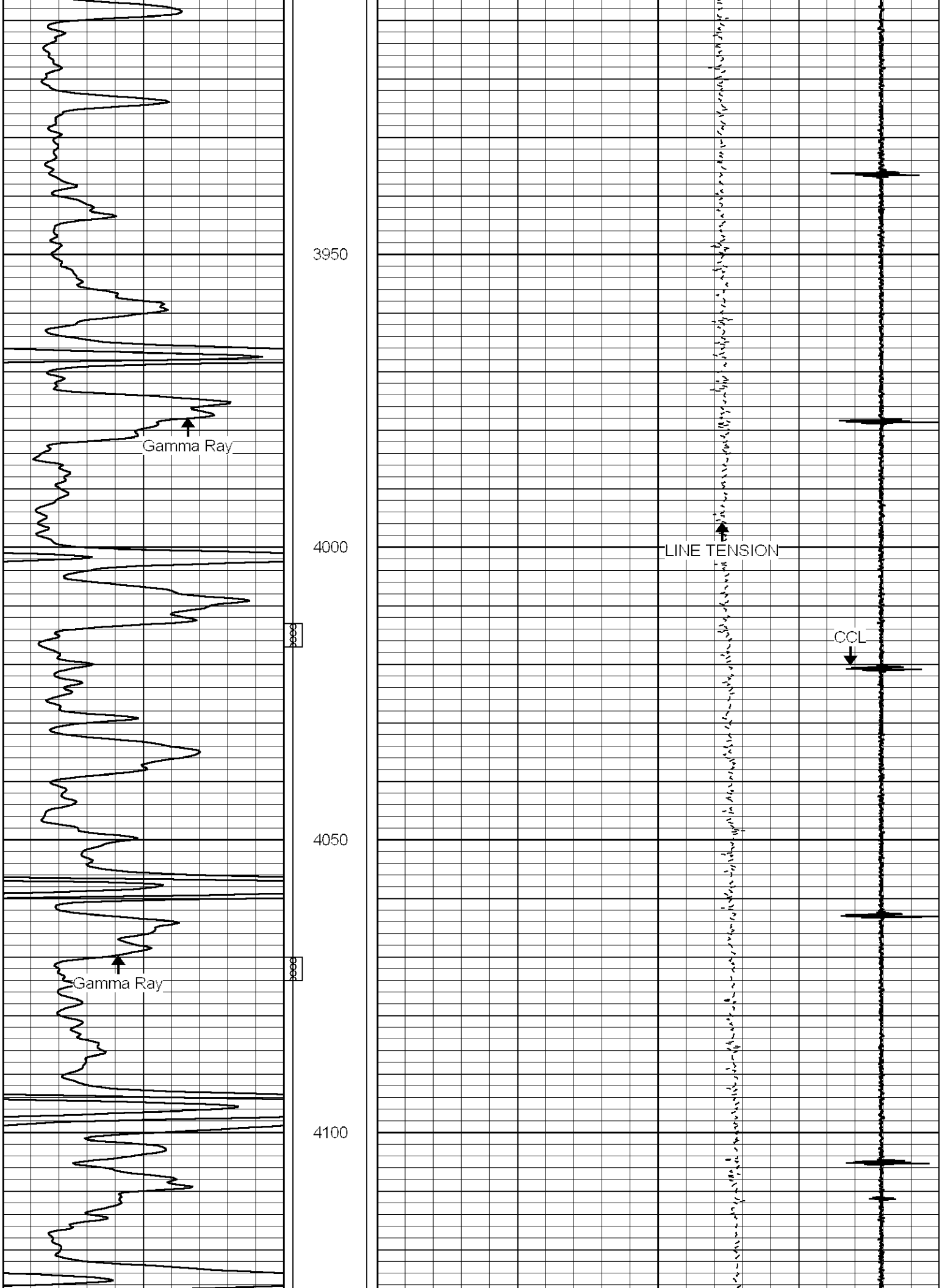
3800
3850
3900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4000
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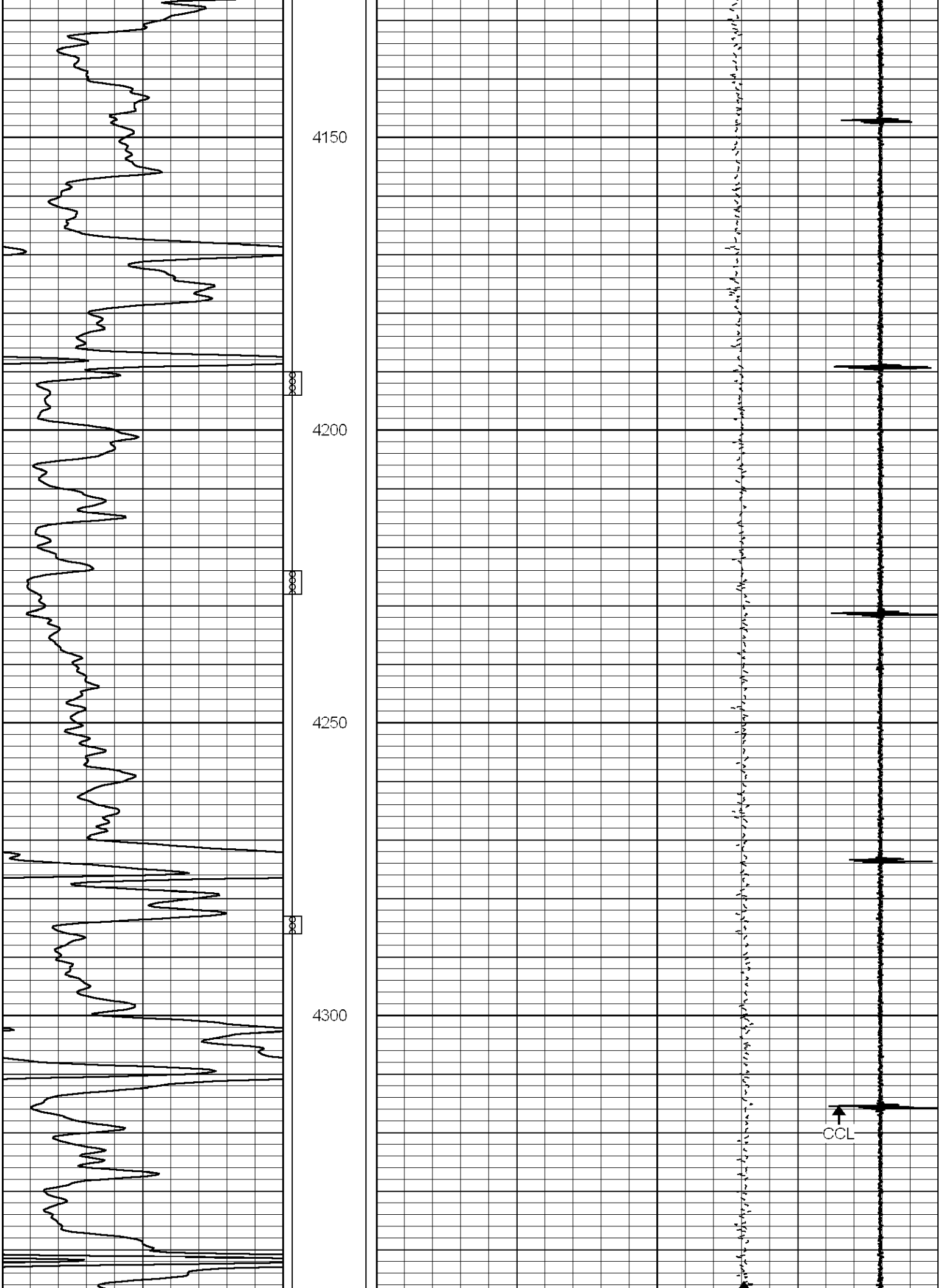
4100
Gamma Ray
Gamma Ray
LINE TENSION
CCL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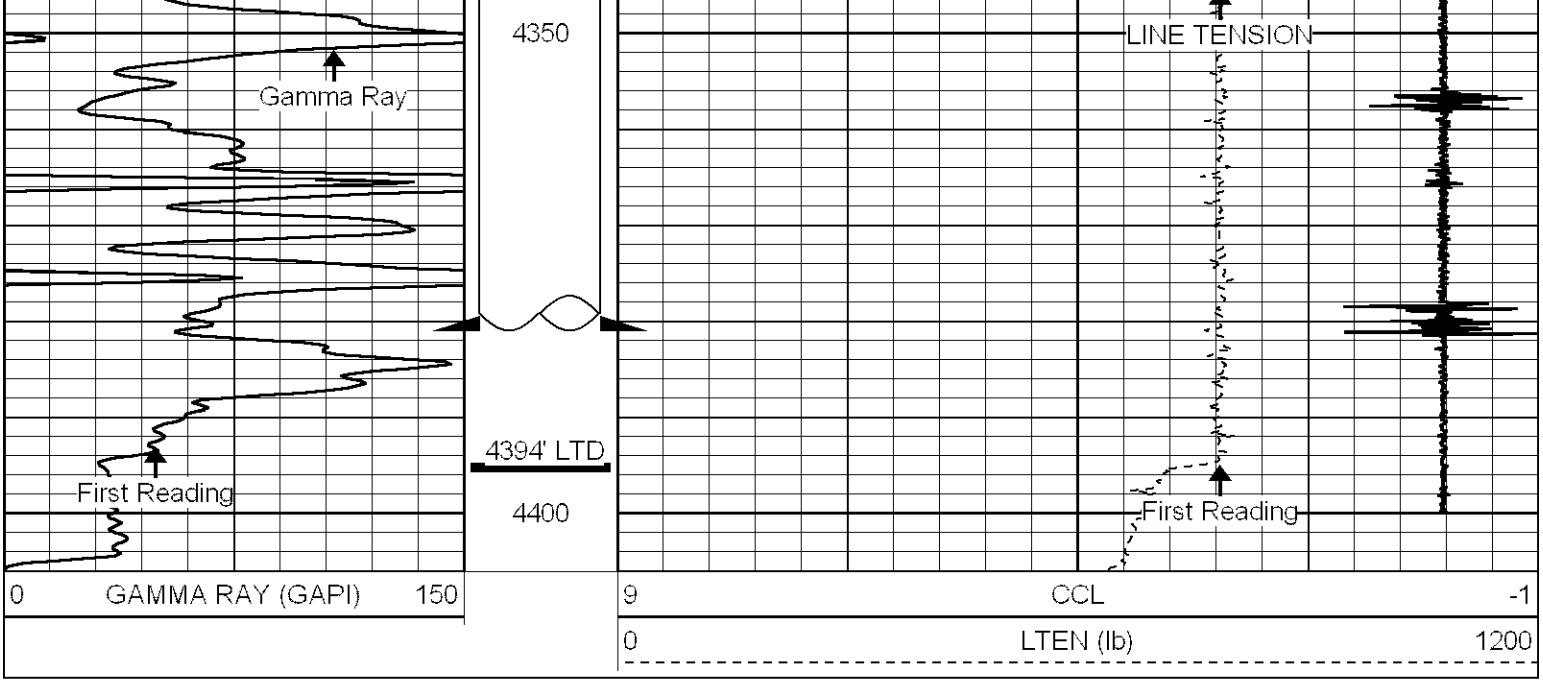
CCL



LOG-TECH of Kansas Inc.
GREAT BEND, KANSAS

REPEAT SECTION

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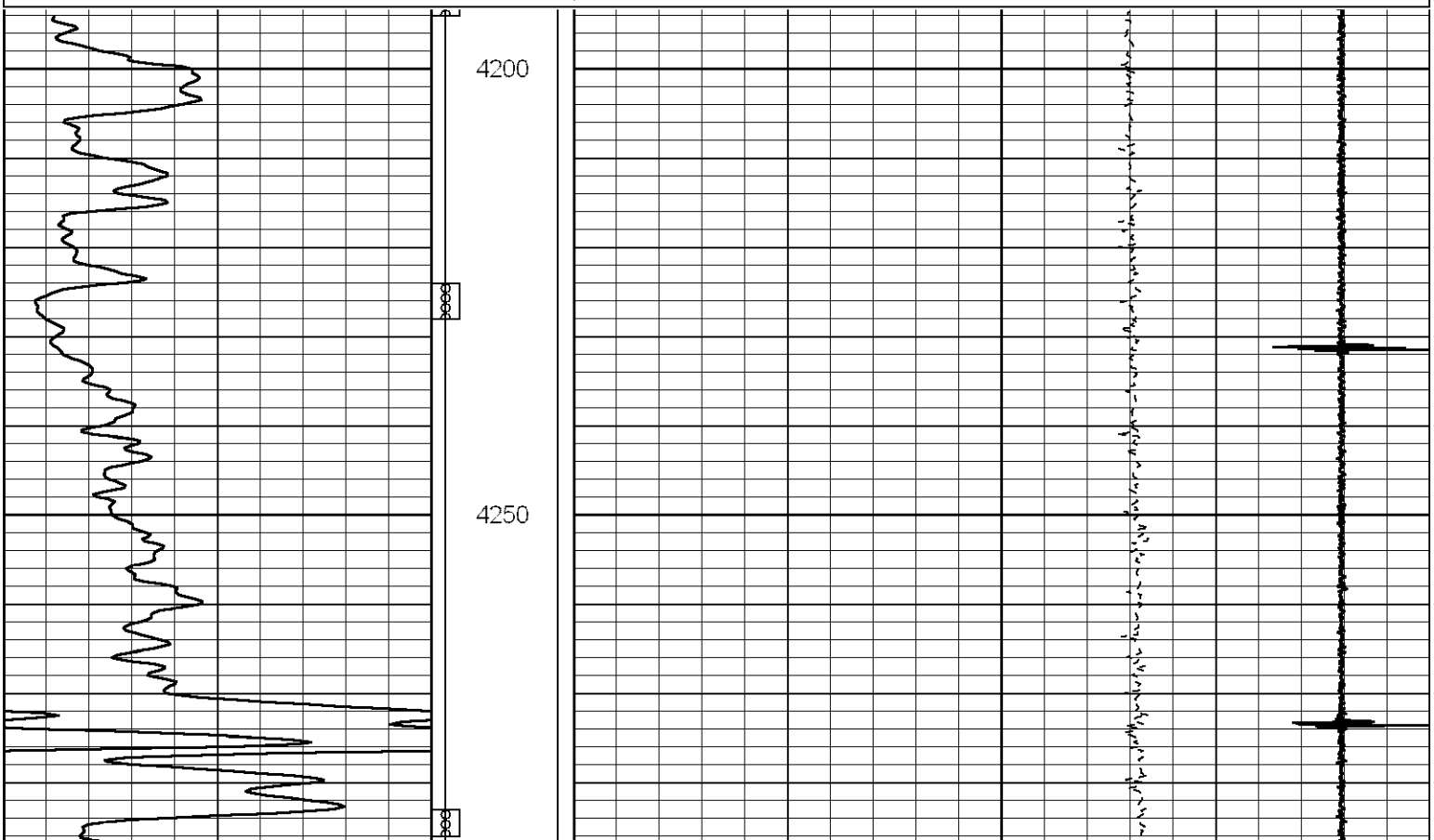
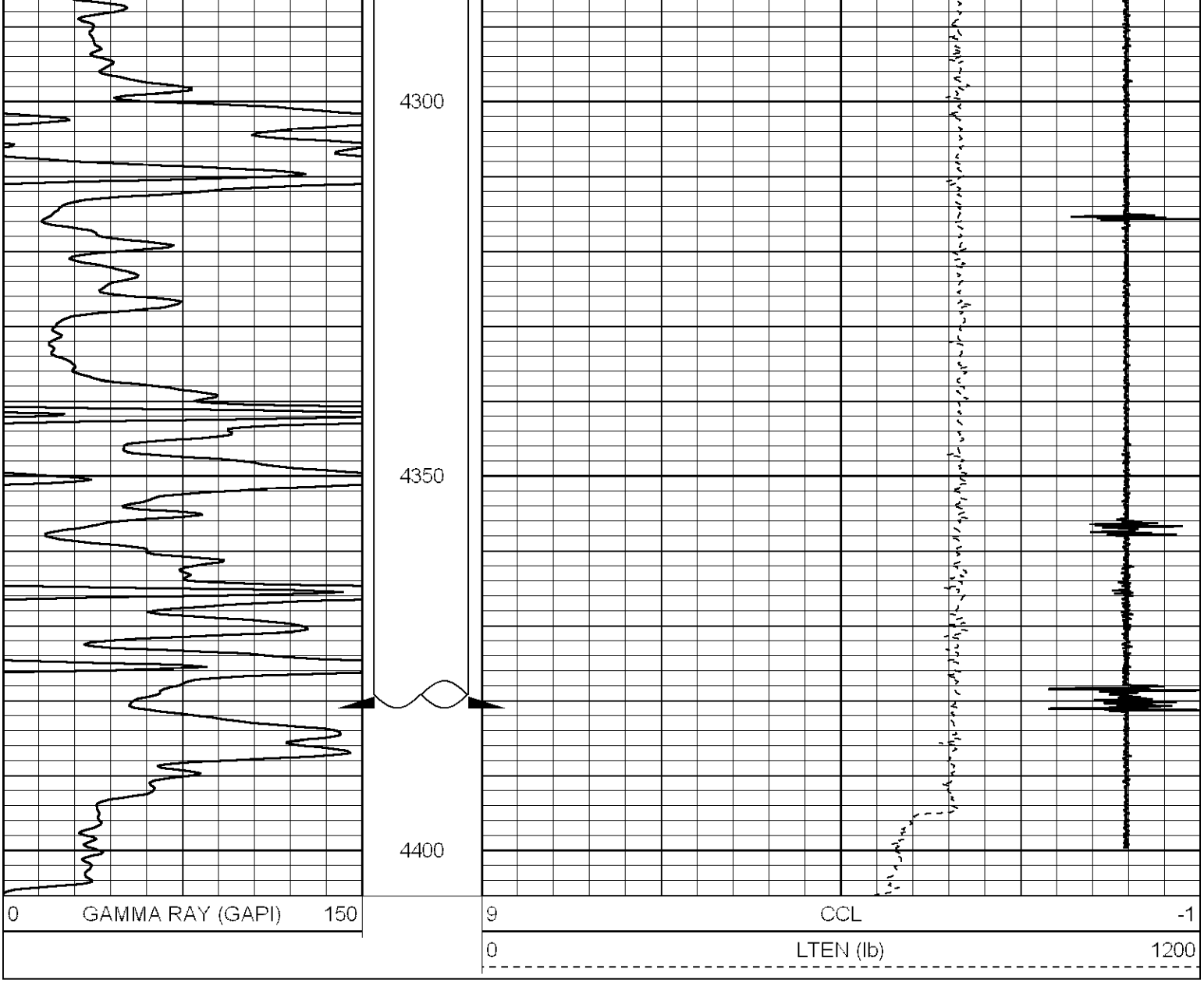
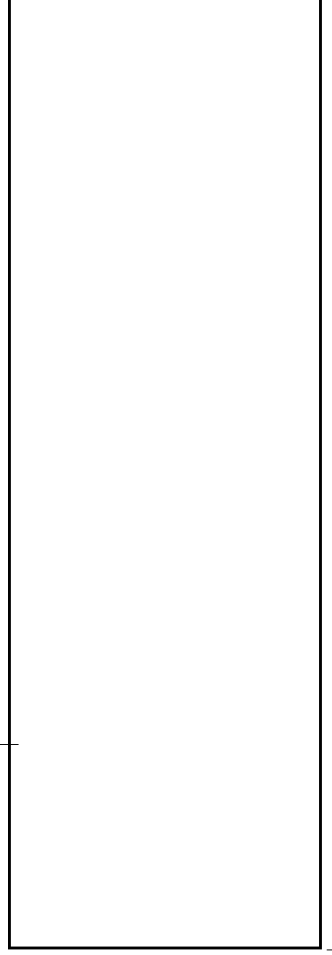
Charted by:	Depth in Feet scaled 1:240





Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			chd-STNDRD (1) Standard Cable Head	1.00	1.44	10.00
			CCL-sie1 (ccl1) slimccl	1.83	1.69	10.00
CCL	6.08					

GR	1.00		_GR-sie (gr1) slimholegr	5.50	1.69	40.00

Dataset:	hbfb7.db: field/well/run1/pass3
Total Length:	8.33 ft
Total Weight:	60.00 lb
O.D.	1.69 in