



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1248909
OIL & GAS CONSERVATION DIVISION

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: _____



1248909

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 List All E. Logs Run: _____ | <input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum |
|--|---|

| 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 | | | | |
| | | | | |

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 <i>(Amount and Kind of Material Used)</i> | 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 <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> <input type="checkbox"/> Other <i>(Specify)</i> _____ | PRODUCTION INTERVAL: _____ _____ |
|--|--|---|

Date 11-17-14 District Russell Ticket No. 55570
 Company Darrah O.I Rig Hillard
 Lease Hoffman B O/W/O Well No. 6
 County Barton State KJ
 Location Susant 2W 2 3/4 N Field _____
E into

CASING DATA: Conductor PTA Squeeze Misc
 Surface Intermediate Production Liner
 Size 7 Type _____ Weight 23 Collar _____

Casing Depths: Top _____ Bottom _____

Drill Pipe: Size _____ Weight _____ Collars _____
 Open Hole: Size 9 7/8 T.D. 3713 ft. P.B. to _____ ft.

CAPACITY FACTORS:
 Casing: Bbls/Lin. ft. 10394 Lin. ft./Bbl. _____
 Open Holes: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Drill Pipe: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Annulus: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Perforations: From _____ ft. to _____ ft. Amt. _____

CEMENT DATA:

Spacer Type: _____
 Amt. _____ Sks Yield _____ ft³/sk Density _____ PPG

LEAD: Pump Time _____ hrs. Type ASC 5'6.1/1/1
 Excess _____

Amt. 260 Sks Yield _____ ft³/sk Density _____ PPG

TAIL: Pump Time _____ hrs. Type Acua 37.00
 Excess _____

Amt. 205 Sks Yield _____ ft³/sk Density _____ PPG

WATER: Lead _____ gals/sk Tail _____ gals/sk Total _____ Bbls.

Pump Trucks Used 409- Nathan D
 Bulk Equip. 985- Steve S
378-

Float Equip: Manufacturer WF

Shoe: Type float Depth 3419

Float: Type _____ Depth _____

Centralizers: Quantity 6 Plugs Top _____ Btm. _____

Stage Collars WF 979

Special Equip. _____

Disp. Fluid Type water Amt. 13374 Bbls. Weight 8.34 PPG

Mud Type _____ Weight _____ PPG

COMPANY REPRESENTATIVE _____

CEMENTER MLL

| TIME | PRESSURES PSI | | FLUID PUMPED DATA | | | REMARKS |
|---------|-------------------|---------|-------------------|------------------------|----------------|------------------------------|
| | DRILL PIPE CASING | ANNULUS | TOTAL FLUID | Pumped Per Time Period | RATE Bbls Min. | |
| | | | | | | on location safety meeting |
| | | | | | | run 79 ft of 7" 23# cty |
| | | | | | | cont-3, 6, 8, 10, 57, 60 |
| | | | | | | burst 2, 55 DV 56.979 |
| 1106 AM | | | 64 | | | receive circulation with rig |
| 1259 AM | | | | | | mix 230 Acua Asc |
| 103 PA | | | 10 | | | release plug |
| | 150 | | 20 | | | displace |
| 106 PA | 150 | | 30 | | | |
| | 150 | | 40 | | | |
| 110 PM | 200 | | 50 | | | |
| 111 PM | 200 | | 60 | | | |
| 113 PM | 200 | | 70 | | | |
| 115 PM | 250 | | 80 | | | |
| 116 PM | 400 | | 90 | | | |
| 119 PM | 600 | | 100 | | | |
| 120 PM | 700 | | 110 | | | |
| 121 PM | 750 | | 120 | | | |
| 123 PM | | | 130 | | | |
| 125 PM | 2100 | | 133 1/4 | | | land plug |
| 127 PM | | | | | | release (Dr.) |
| 130 PM | | | | | | drop dart |
| 115 PM | 400 | | 2 | | 1 1/2 | open tool |
| 200 PM | | | | | | receive circulation with rig |

GENERAL TERMS AND CONDITIONS

DEFINITIONS: In these terms and conditions, "ALLIED" shall mean Allied Oil & Gas Services, LLC, and "CUSTOMER" shall refer to the party identified by that term on the front of this contract. As applicable, "Job" relates to the services described on the front side of this contract, "Merchandise" refers to the material described on the front of this contract and to any other materials, products, or supplies used, sold, or furnished under the requirements of this contract.

—**TERMS:** Unless satisfactory credit has been established, CUSTOMER must tender full cash payment to ALLIED before the job is undertaken or merchandise is delivered. If satisfactory credit has been established, the terms of payment for the job and/or merchandise, including bulk cement, are net cash, payable in 30 days from the completion of the job and/or delivery of the merchandise. For all past due invoices, CUSTOMER agrees to pay interest on amounts invoiced at a rate of 18 percent per annum until paid. Notwithstanding the foregoing, in no event shall this Contract provide for interest exceeding the maximum rate of interest that CUSTOMER may agree to pay under applicable law. If any such interest should be provided for, it shall be and hereby is deemed to be a mistake, and this contract shall be automatically reformed to lower the rate of interest to the maximum legal contract rate. Any amounts previously paid as excess interest shall be deducted from the amounts owing from the CUSTOMER or at the option of ALLIED, refunded directly to CUSTOMER. For purposes of this paragraph, ALLIED and CUSTOMER agree that Kansas law shall apply. Any discounts granted with this contract are null and void if the charges are not paid when due.

—**ATTORNEY FEES:** In any legal action or proceeding between the parties to enforce any of the terms of this Service Contract, or in any way pertaining to the terms of this Contract, the prevailing party shall be entitled to recover all expenses, including, but not limited to, a reasonable sum as and for attorney's fees.

—**PRICES AND TAXES:** All merchandise listed in ALLIED'S current price schedule are F.O.B. ALLIED'S local station and are subject to change without notice. All prices are exclusive of any federal, state, local, or special taxes for the sale or use of the merchandise or services listed. The amount of taxes required to be paid by ALLIED shall be added to the quoted prices charged to CUSTOMER.

—**TOWING CHARGES:** ALLIED will make a reasonable attempt to get to and from each job site using its own equipment. Should ALLIED be unable to do so because of poor or inadequate road conditions, and should it become necessary to employ tractor or other pulling equipment to get to or from the job site, the tractor or pulling equipment will be supplied by CUSTOMER or, if furnished by ALLIED, will be charged to and paid by CUSTOMER.

—**PREPARATION CHARGES:** If a job and/or merchandise is ordered and CUSTOMER cancels the order after preparation of a chemical solution or other material, CUSTOMER will pay ALLIED for the expenses incurred by ALLIED as a result of the cancellation.

—**DEADHAUL CHARGES:** Unless otherwise specified on the front of this Contract, a deadhaul charge as set forth in ALLIED'S current price book will be charged each way for each service unit which is ordered by CUSTOMER but not used.

—SERVICE CONDITIONS AND LIABILITIES:

1. ALLIED carries public liability and property damage insurance, but since there are so many uncertain and unknown conditions beyond ALLIED'S control, ALLIED shall not be liable for injuries to property or persons or for loss or damage arising from the performance of the job or delivery of the merchandise. CUSTOMER shall be responsible for and indemnify, defend, and hold harmless ALLIED, its officers, agents and employees, from and against any and all claims or suits for:

(A) Damage to property or for bodily injury, sickness, disease, or death, brought by any person, including CUSTOMER and/or the well owner; and

(B) Oil spills, pollution, surface or sub-surface damage, injury to the well, reservoir loss, or damage arising from a well blowout arising out of or in connection with ALLIED'S performance of the job or furnishing of merchandise in accordance with this contract, unless such loss or damage is caused by the willful misconduct or gross negligence of ALLIED or its employees.

2. With respect to any of ALLIED'S tools, equipment, or instruments which are lost in the well or damaged when performing or attempting to perform the job or, in the case of marine operations, are lost or damaged at any time after delivery to the landing for CUSTOMER and before return to ALLIED at the landing, CUSTOMER shall either recover the lost item without cost to ALLIED or reimburse ALLIED the current replacement cost of the item unless the loss or damage results from the sole negligence of ALLIED or its employees.

3. ALLIED does not assume any liability or responsibility for damages or conditions resulting from chemical action in cements caused by contamination of water or other fluids.

WARRANTIES:

1. ALLIED warrants all merchandise manufactured or furnished by it to be free from defects in material and workmanship under normal use and service when installed, and used, and/or serviced in the manner provided and intended. ALLIED'S obligation under this warranty is expressly limited to repair, replacement, or allowance for credit, at its option, for any merchandise which is determined by ALLIED to be defective. THIS IS THE SOLE WARRANTY OF ALLIED AND NO OTHER WARRANTY IS APPLICABLE, EITHER EXPRESS OR OTHERWISE IMPLIED, IN FACT OR IN LAW, INCLUDING ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. CUSTOMER'S sole and only remedy with regard to any defective merchandise shall be the repair or replacement thereof or allowance for credit as herein provided, and ALLIED shall not be liable for any consequential, special, incidental, or punitive damages resulting from or caused by defective materials, products or supplies.

2. More specifically:

(A) Nothing in this contract shall be construed as a warranty by ALLIED of the success or the effectiveness of the result of any work done or merchandise used, sold, or furnished under this contract.

(B) Nothing in this contract shall be construed as a warranty of the accuracy or correctness of any facts, information, or data furnished by ALLIED or any interpretation of tests, meter readings, chart information, analysis of research, or recommendations made by ALLIED, unless the inaccuracy or incorrectness is caused by the willful misconduct or gross negligence of ALLIED or its employees in the preparation or furnishing of such facts, information or data.

(C) Work done by ALLIED shall be under the direct supervision and control of the CUSTOMER or his agent, and ALLIED will accomplish the job as an independent contractor and not as an employee or agent of the CUSTOMER.

ALLIED OIL & GAS SERVICES, LLC

055570

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
Russell KS

| | | | | | | | |
|---------------------------|-----------------|-----------------------------------|-----------------|------------|---------------------------|-----------------|------------|
| DATE <u>11-17-14</u> | SEC. <u>7</u> | TWP. <u>16</u> | RANGE <u>13</u> | CALLED OUT | ON LOCATION <u>1200AM</u> | JOB START | JOB FINISH |
| LEASE <u>Hoffman OWWO</u> | WELL # <u>6</u> | LOCATION <u>Susank 2W 2 3/4 N</u> | | | COUNTY <u>Barton</u> | STATE <u>KS</u> | |
| OLD OR NEW (Circle one) | | | <u>E into</u> | | | | |

CONTRACTOR Mallard
 TYPE OF JOB 7" Longstring
 HOLE SIZE 9 7/8 T.D. 3713
 CASING SIZE 7" DEPTH 3419.59
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL 2 stage DEPTH 979
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT 33.9
 CEMENT LEFT IN CSG. 33.9
 PERFS.
 DISPLACEMENT 133.25 & 38.5

EQUIPMENT
 PUMP TRUCK CEMENTER Robert V
 # 409 HELPER Nathan D
 BULK TRUCK
 # 985 DRIVER Steve S
 BULK TRUCK
 # 378 DRIVER

REMARKS:

see log
Cement to surface
Thank you!!!

CHARGE TO: Darish, John Jay, Jr.
 STREET _____
 CITY _____ STATE _____ ZIP _____

To: Allied Oil & Gas Services, LLC.
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME JETH EVENCH
 SIGNATURE _____

OWNER
 CEMENT
 AMOUNT ORDERED 230 ASC 5" 6.1/ft
205 ACON
30 Asc

| | | | |
|------------------|----------------|----------------|----------------|
| COMMON | @ | | |
| POZMIX | @ | | |
| GEL | @ | | |
| CHLORIDE | <u>579</u> | @ <u>1.10</u> | <u>636.90</u> |
| ASC | <u>230</u> | @ <u>23.50</u> | <u>5405.00</u> |
| <u>ACON</u> | <u>205</u> | @ <u>23.00</u> | <u>4715.00</u> |
| <u>ASC</u> | <u>30</u> | @ <u>23.50</u> | <u>705.00</u> |
| <u>Flu-ccal</u> | <u>52#</u> | @ <u>2.97</u> | <u>154.44</u> |
| <u>Gilsonite</u> | <u>1153</u> | @ <u>0.98</u> | <u>1129.94</u> |
| <u>Mud Flush</u> | <u>500gal</u> | @ <u>0.98</u> | <u>490.00</u> |
| | | @ | |
| | | @ | |
| | | @ | |
| HANDLING | <u>465</u> | @ <u>2.48</u> | <u>1153.20</u> |
| MILEAGE | <u>549 +/-</u> | <u>2.75</u> | <u>1509.06</u> |

TOTAL 15898.54

SERVICE

| | | | |
|-------------------|------------------|----------------|---------------|
| DEPTH OF JOB | <u>3419.59</u> | | |
| PUMP TRUCK CHARGE | <u>2558.75</u> | | |
| EXTRA FOOTAGE | @ <u>2406.25</u> | <u>2406.25</u> | |
| MILEAGE | <u>25 LUMI</u> | @ <u>4.40</u> | <u>110.00</u> |
| MANIFOLD | @ <u>275.00</u> | <u>275.00</u> | |
| <u>50 HVMI</u> | @ <u>7.70</u> | <u>385.00</u> | |
| | @ | | |

TOTAL 5735.00

PLUG & FLOAT EQUIPMENT

| | | | |
|----------------------------|------------------|----------------|--|
| <u>WF 7' latch down</u> | @ <u>1360.00</u> | <u>1360.00</u> | |
| <u>WF 7' catchment (6)</u> | @ <u>65.00</u> | <u>390.00</u> | |
| <u>WF 7" baskets (2)</u> | @ <u>465.00</u> | <u>930.00</u> | |
| <u>WF 7" float shoe</u> | @ <u>640.00</u> | <u>640.00</u> | |
| <u>WF 7" stage collar</u> | @ <u>6950.00</u> | <u>6950.00</u> | |

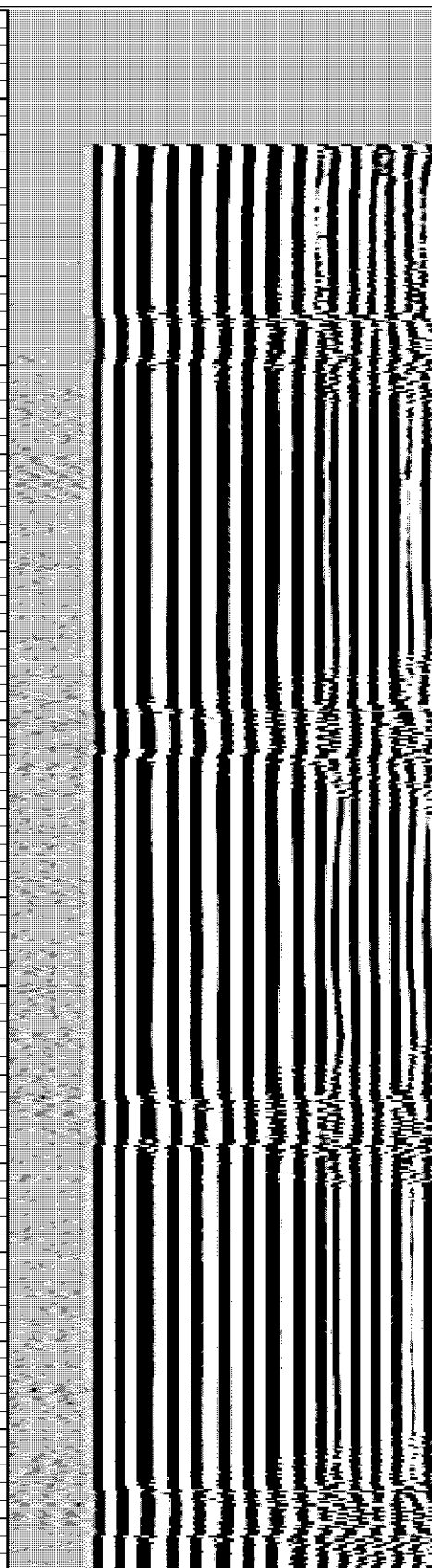
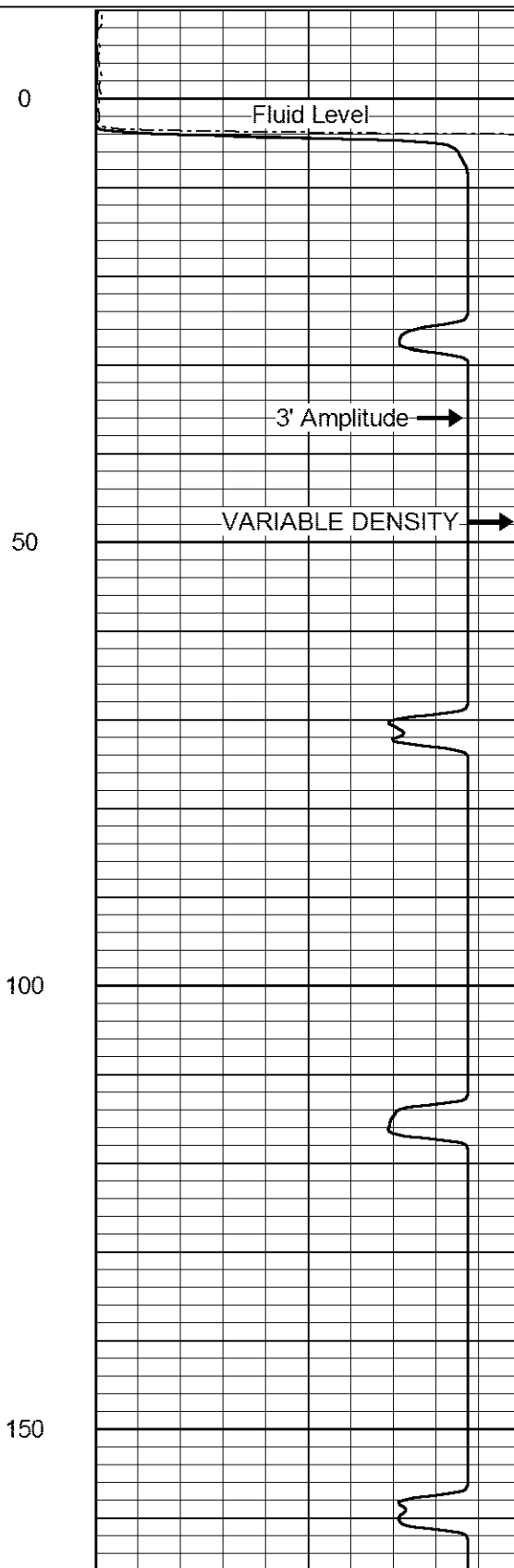
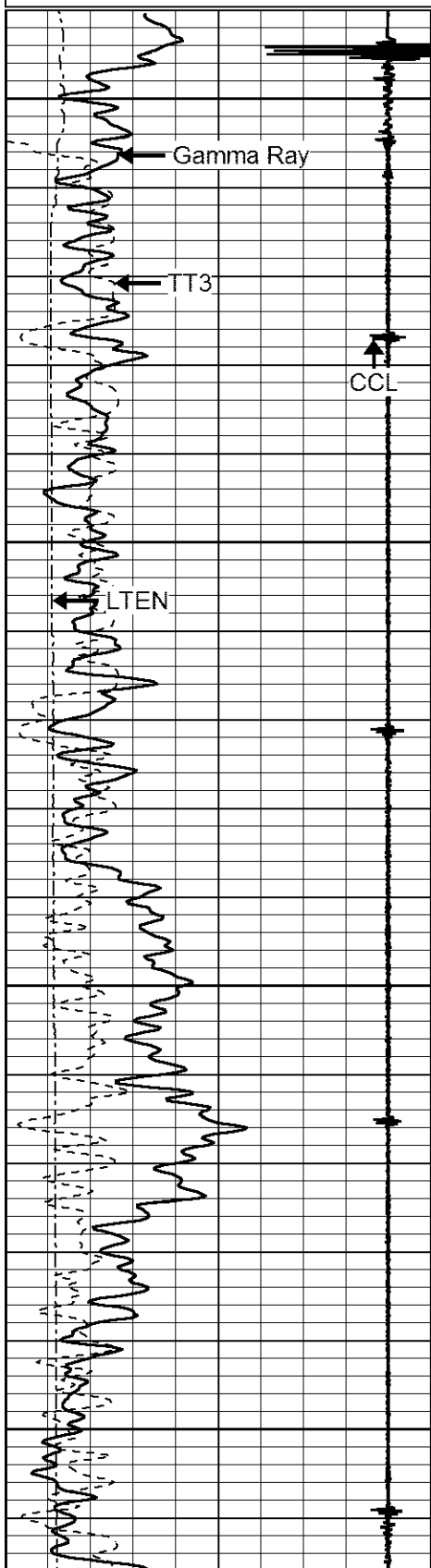
TOTAL 10270.00

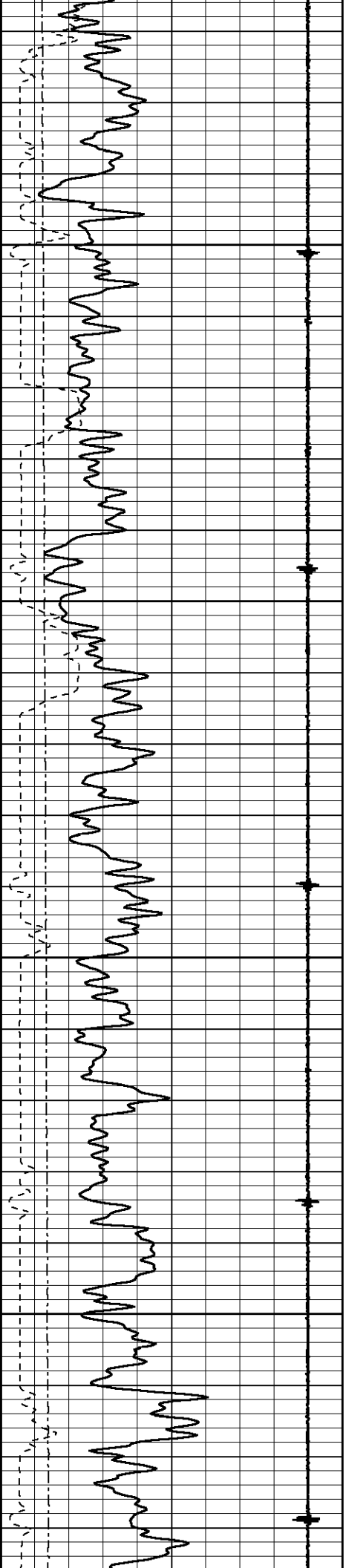
SALES TAX (If Any) _____
 TOTAL CHARGES 31903.54
 DISCOUNT 8932.99 IF PAID IN 30 DAYS
net 22970.55

Database File: hoffmanswd.db
 Dataset Pathname: pass4
 Presentation Format: cbl02
 Dataset Creation: Wed Dec 17 16:07:13 2014 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 | 200 | VARIABLE DENSITY | 1200 |
| 0 | X5 Amplitude (mV) | 20 | | | |



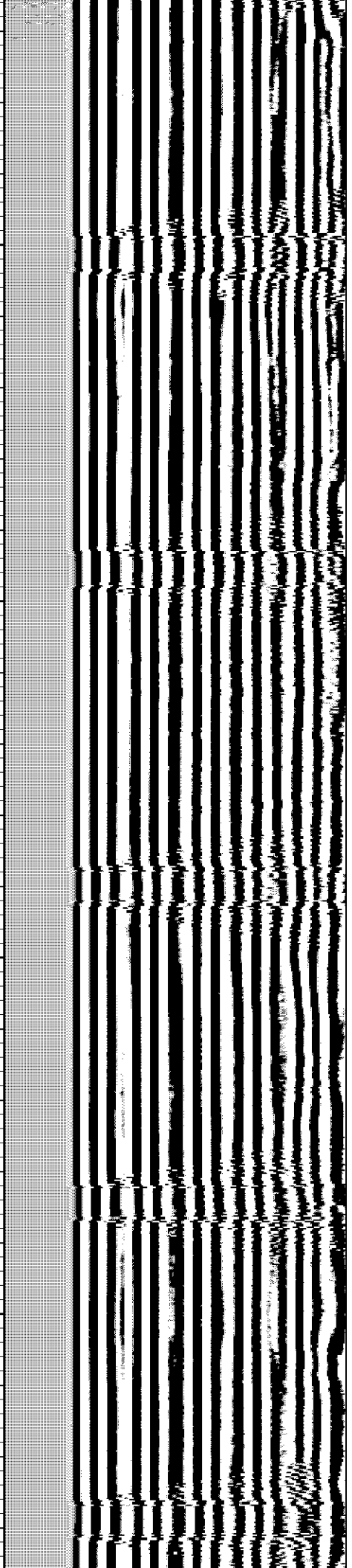
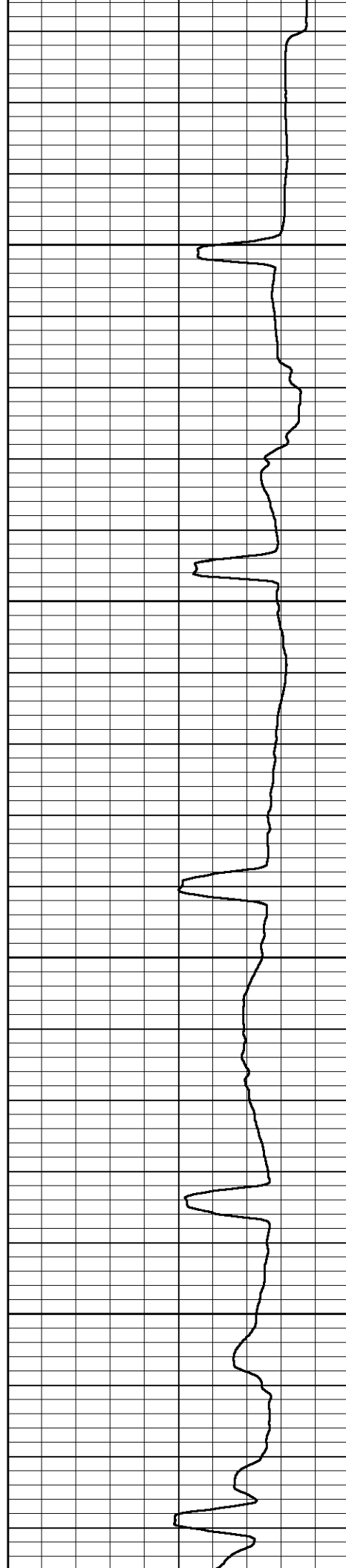


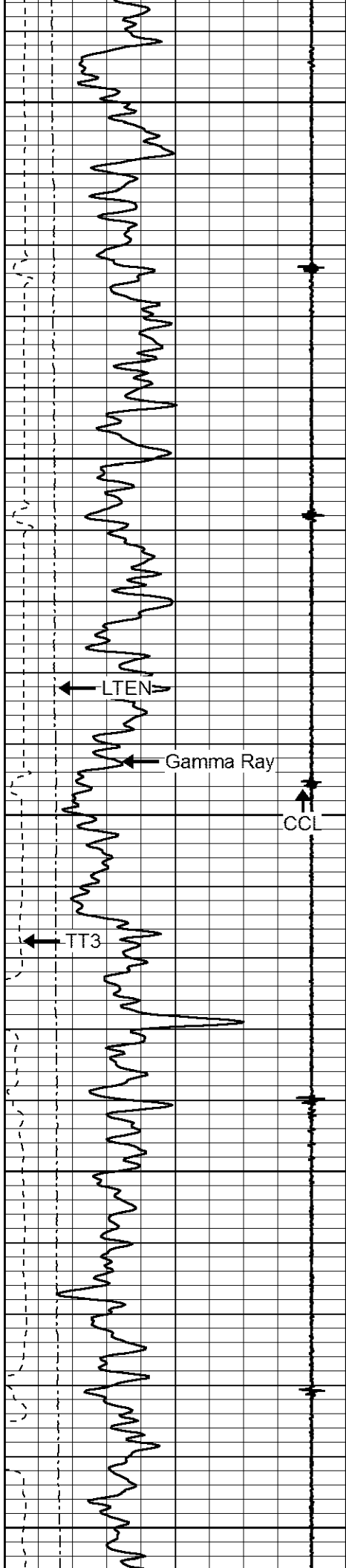
200

250

300

350





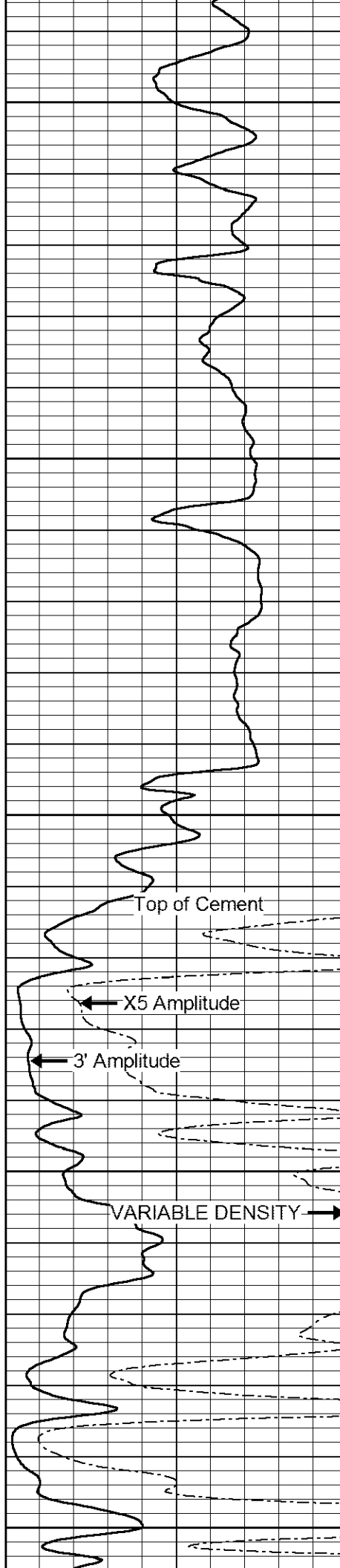
400

450

500

550

600

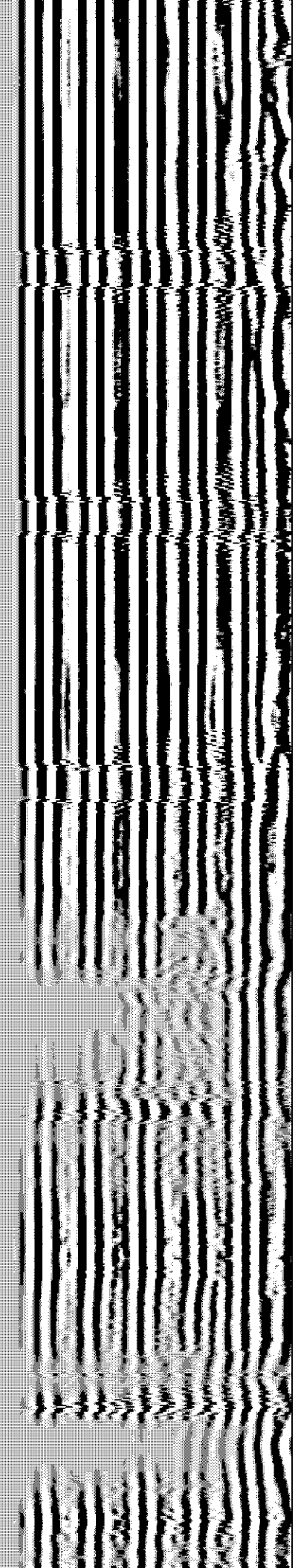


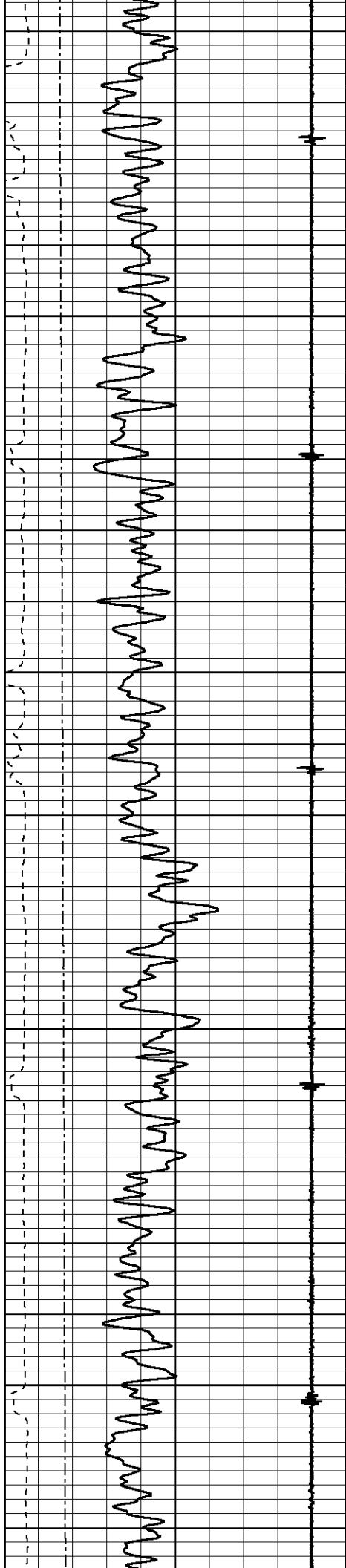
Top of Cement

X5 Amplitude

3' Amplitude

VARIABLE DENSITY



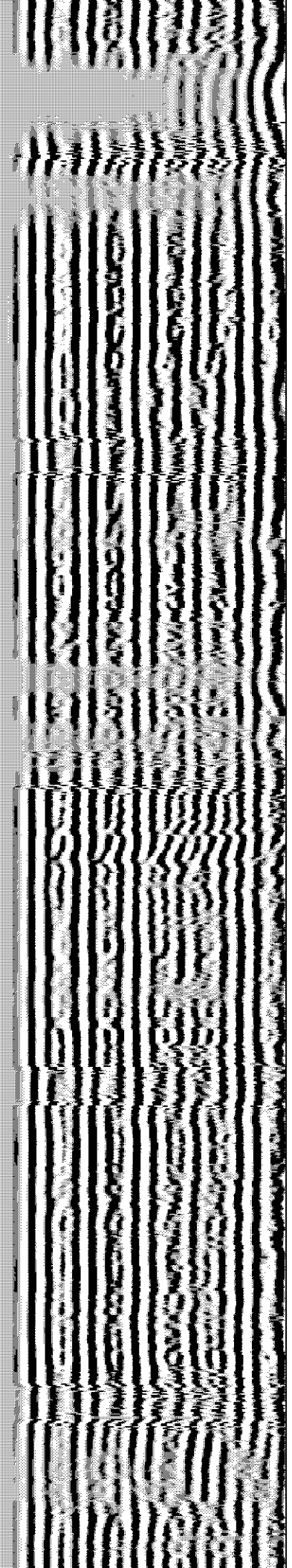
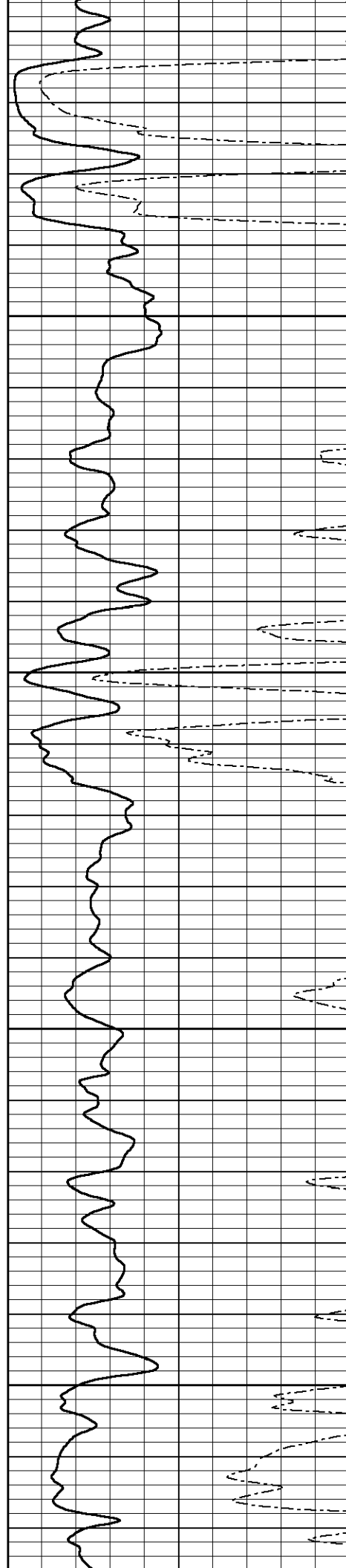


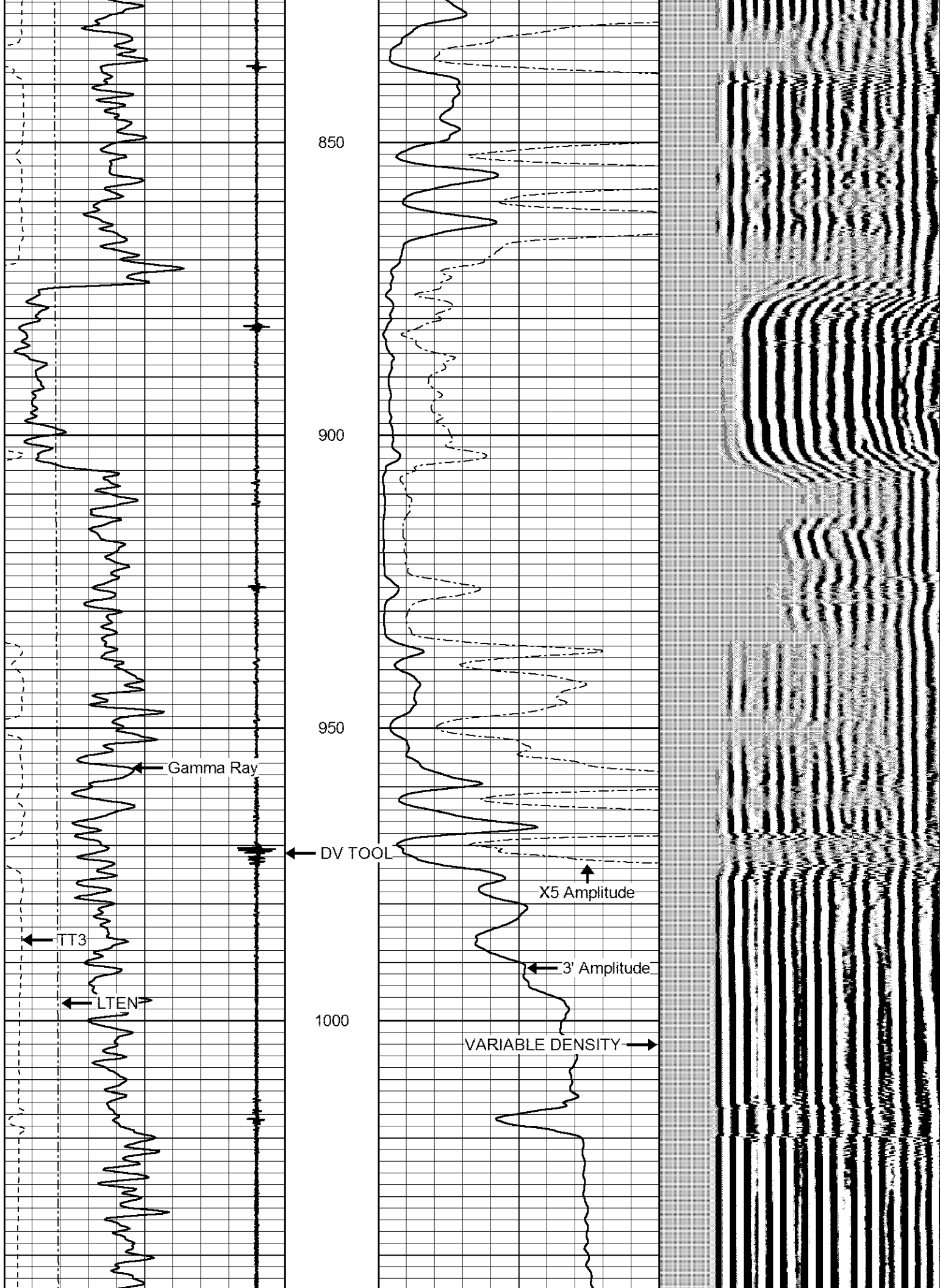
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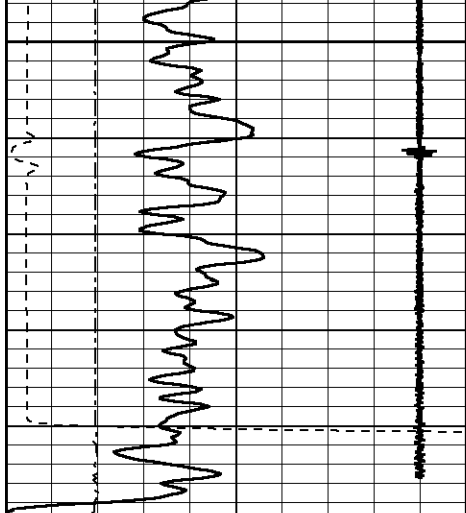
700

750

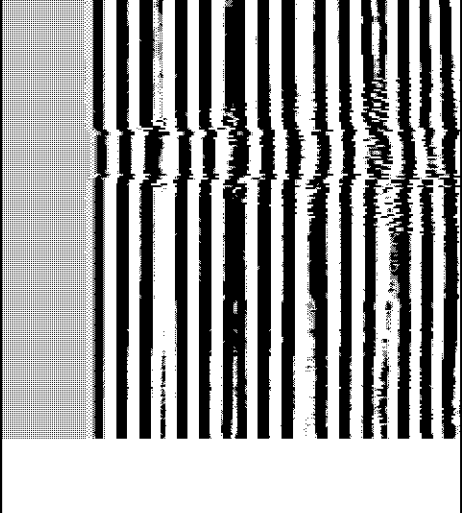
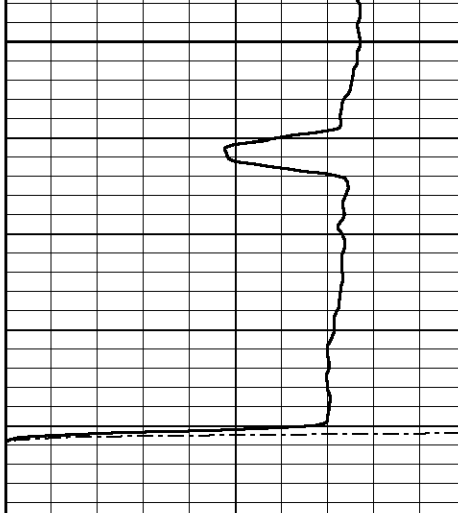
800







1050



| | | |
|-----|------------------|------|
| 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



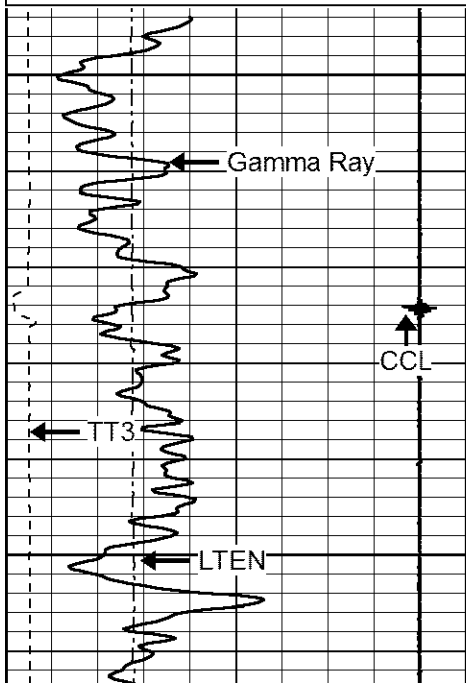
MAIN PASS

Database File: hoffmanswd.db
 Dataset Pathname: pass3
 Presentation Format: cbl02
 Dataset Creation: Wed Dec 17 15:27:51 2014 by Log 7.0 B1
 Charted by: Depth in Feet scaled 1:240

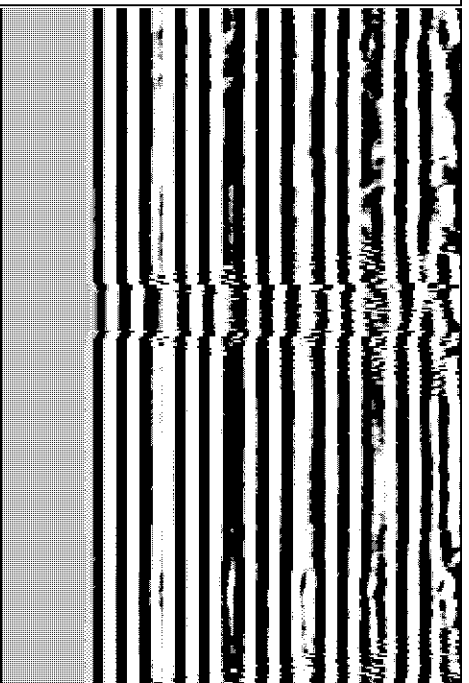
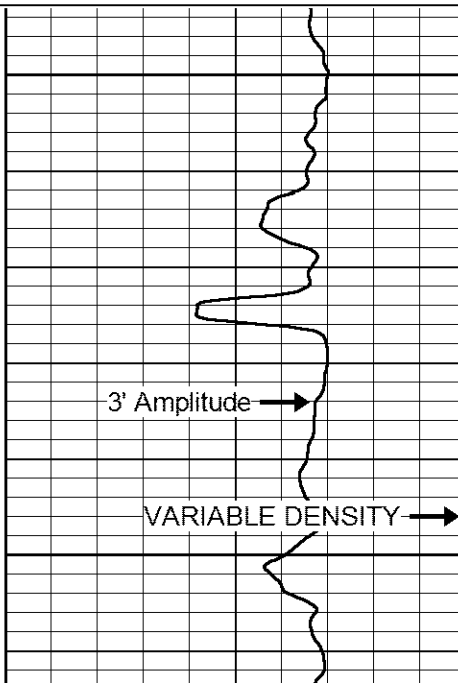
| | | |
|-----|------------------|------|
| 9 | Collar Locator | -1 |
| 0 | Gamma Ray (GAPI) | 150 |
| 320 | TT3 (usec) | 120 |
| 0 | LTEN (lb) | 2000 |

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

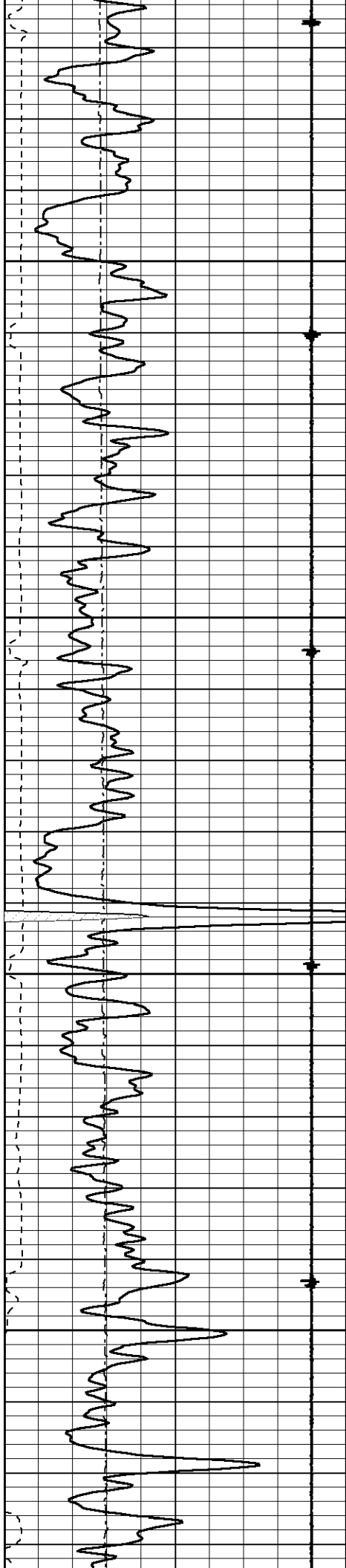
200 VARIABLE DENSITY 1200



2000



2050

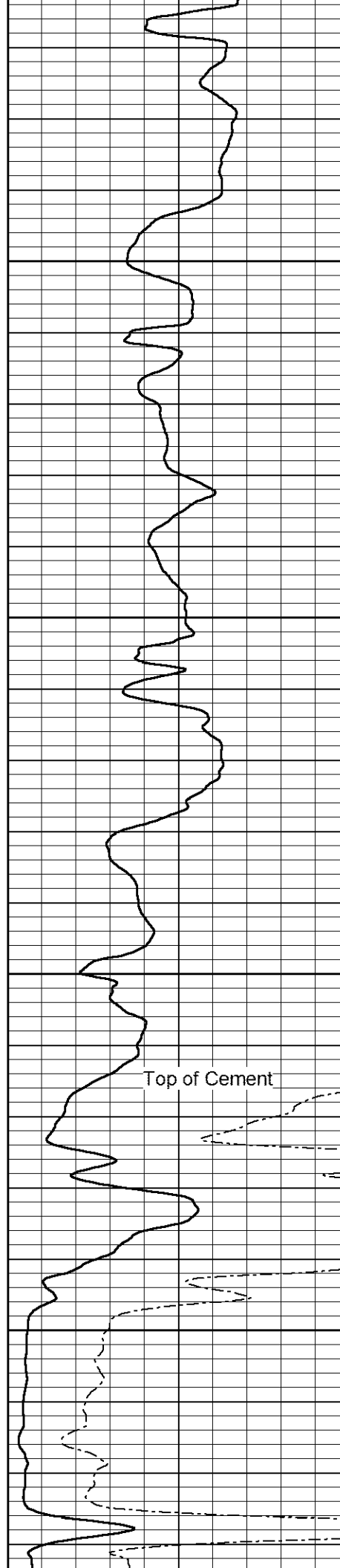


2100

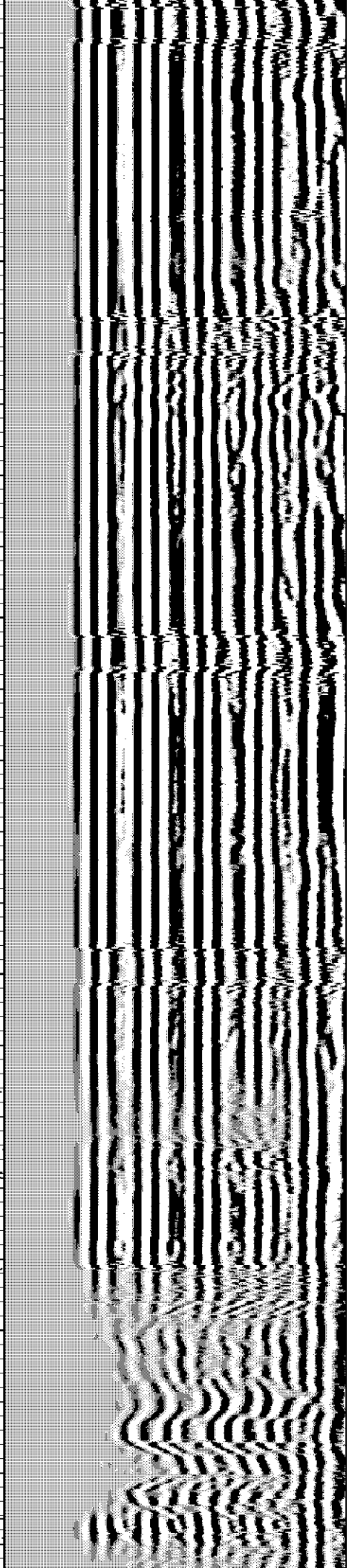
2150

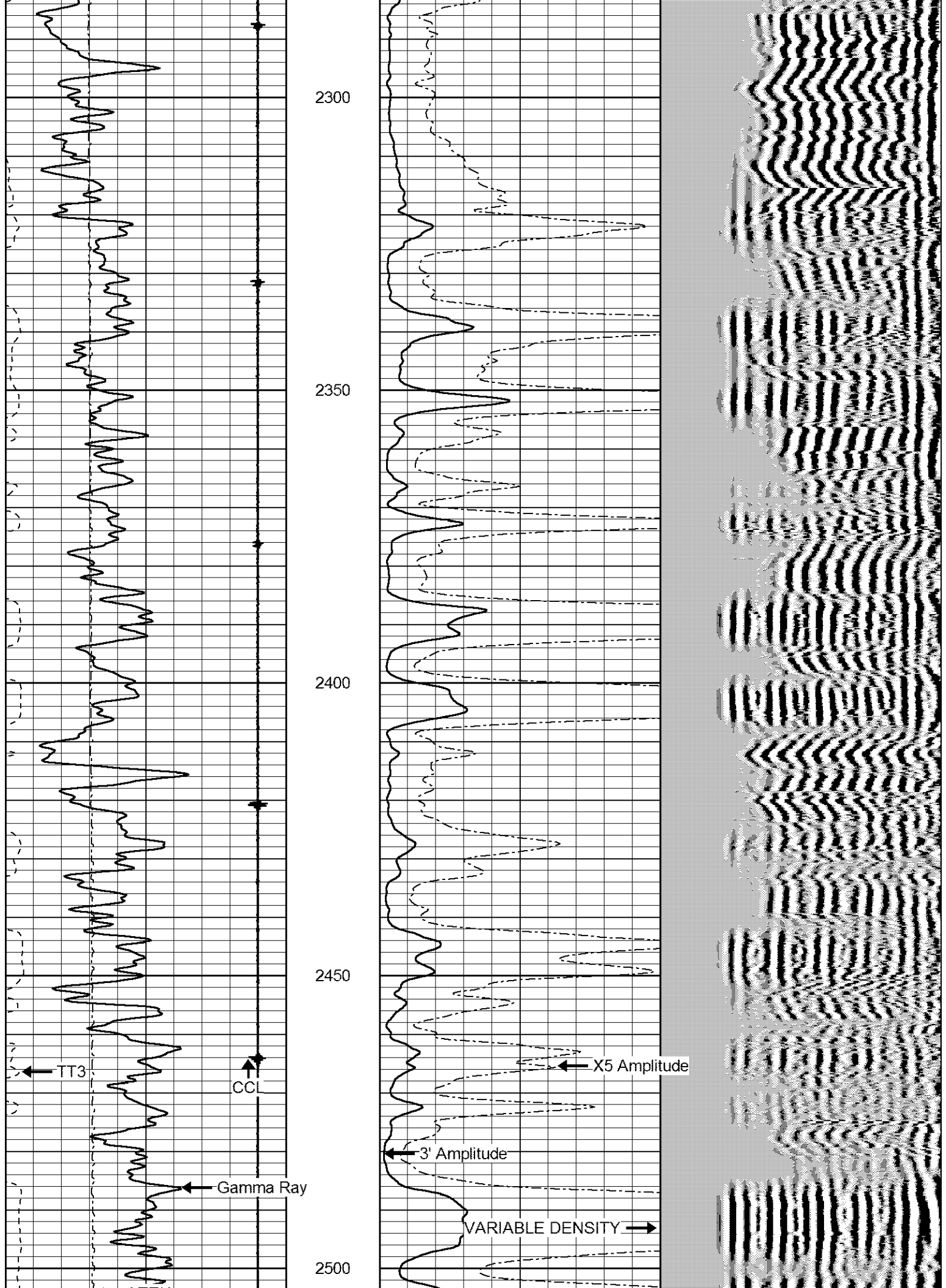
2200

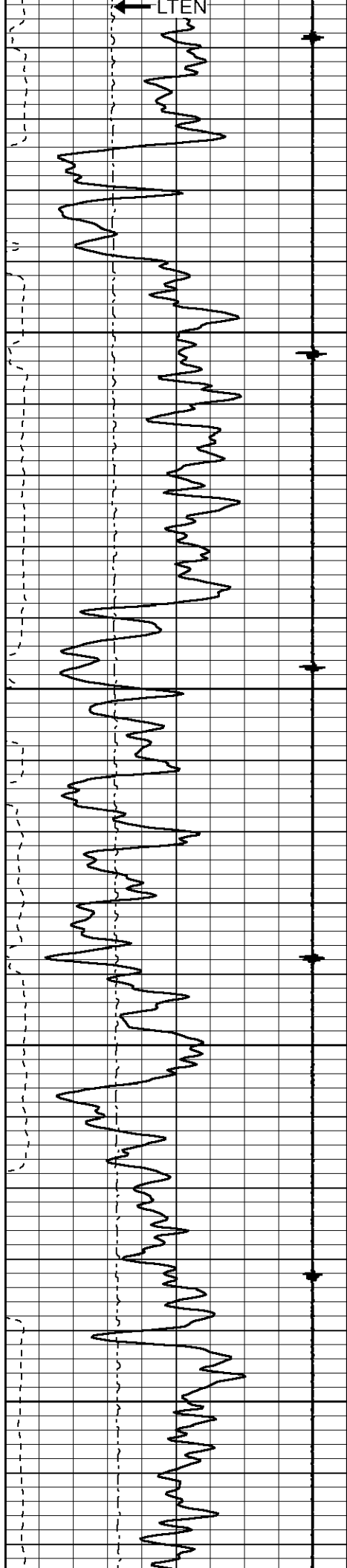
2250



Top of Cement





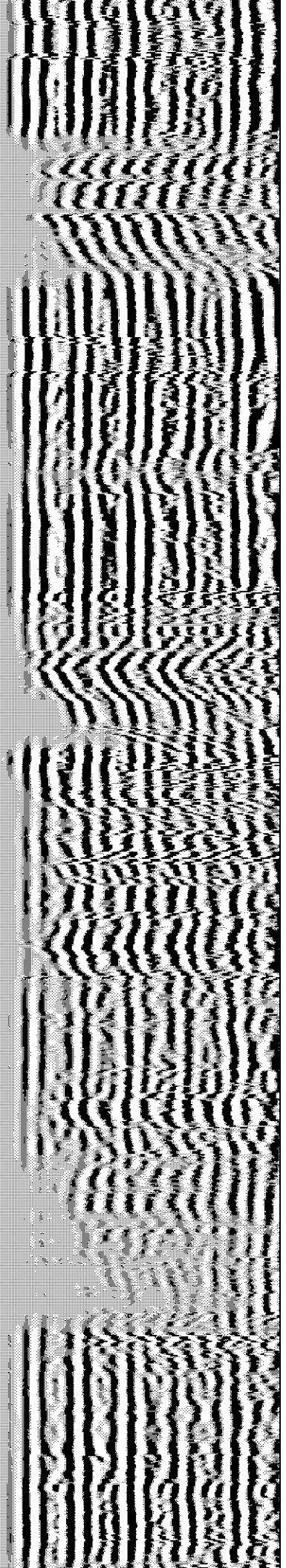
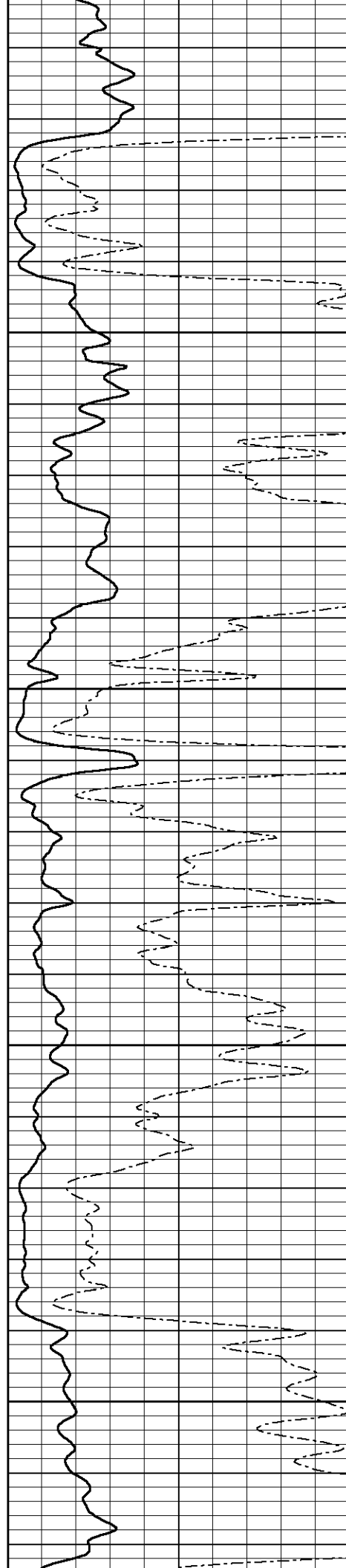


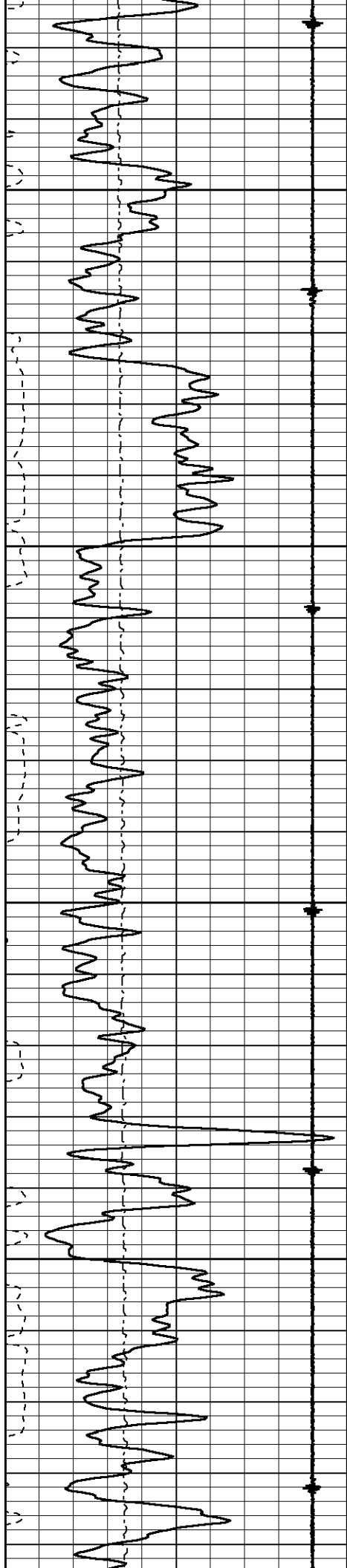
2550

2600

2650

2700



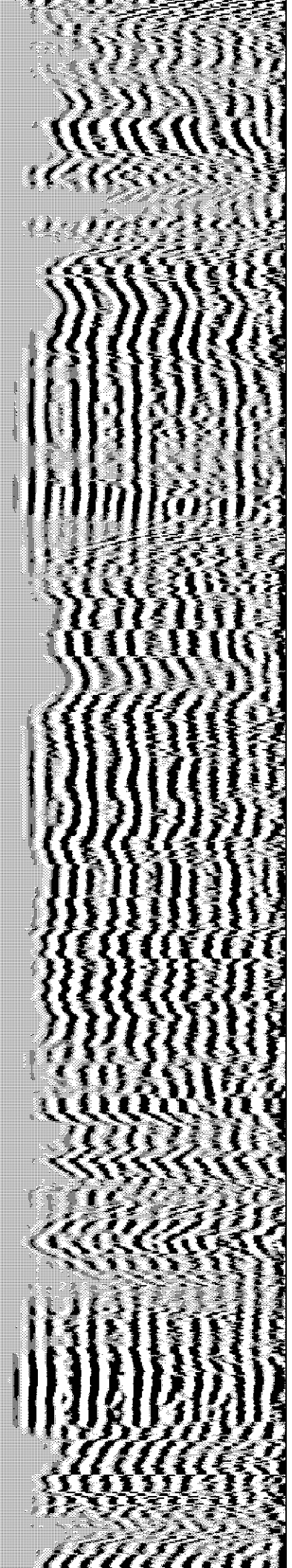
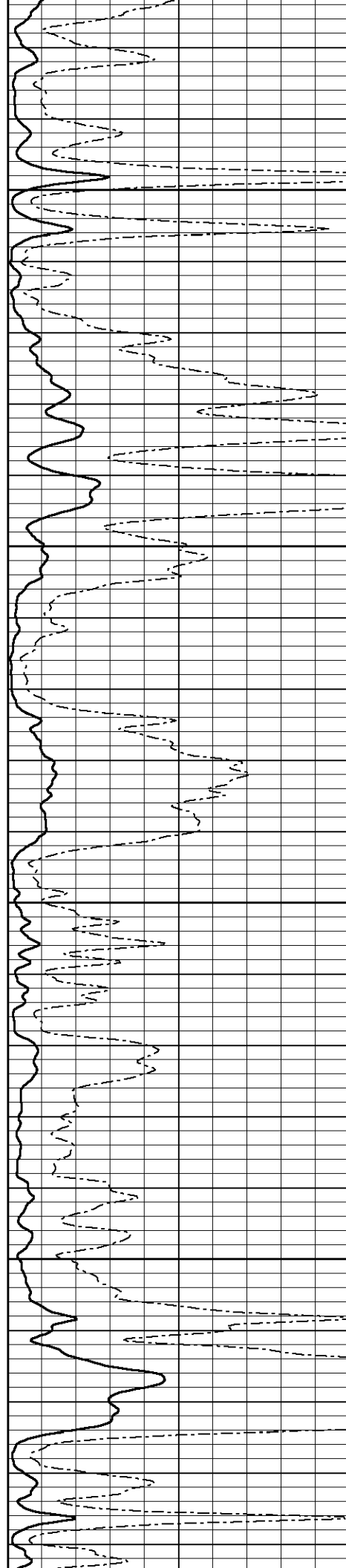


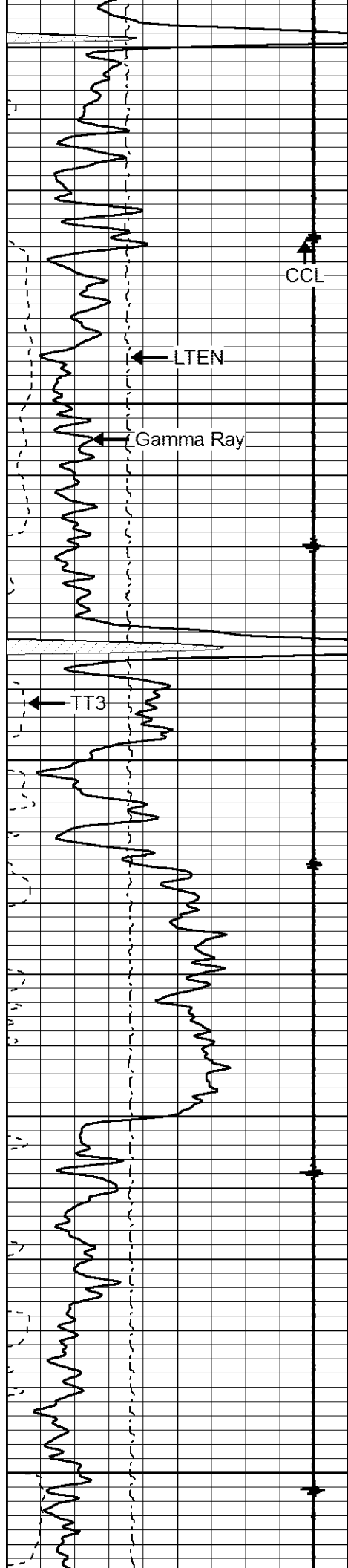
2750

2800

2850

2900





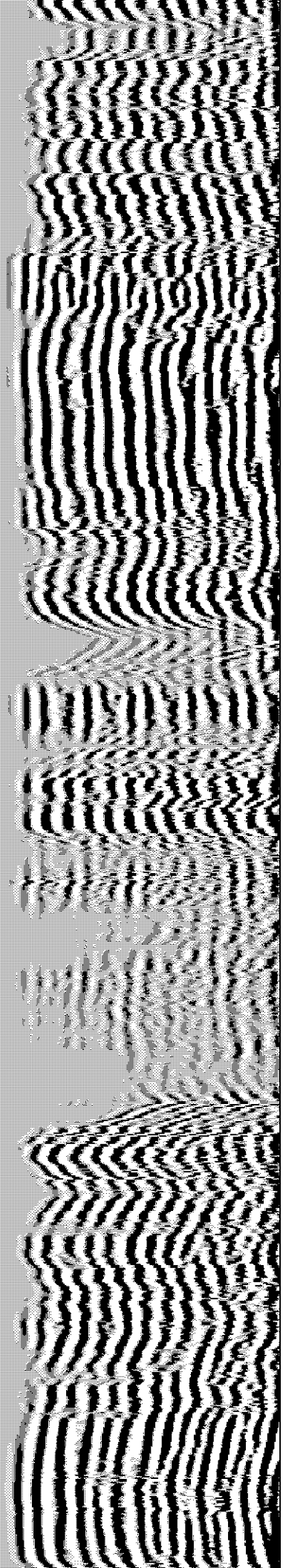
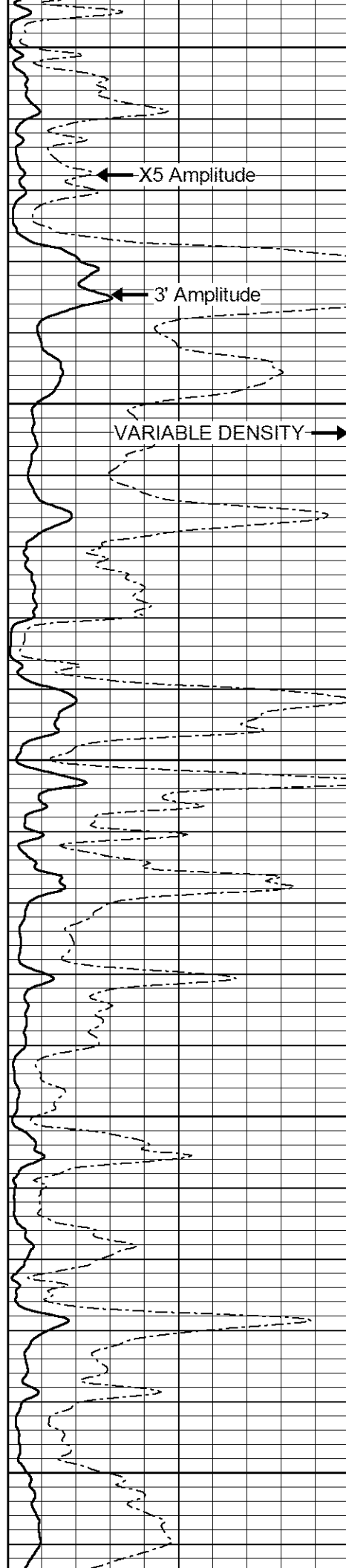
2950

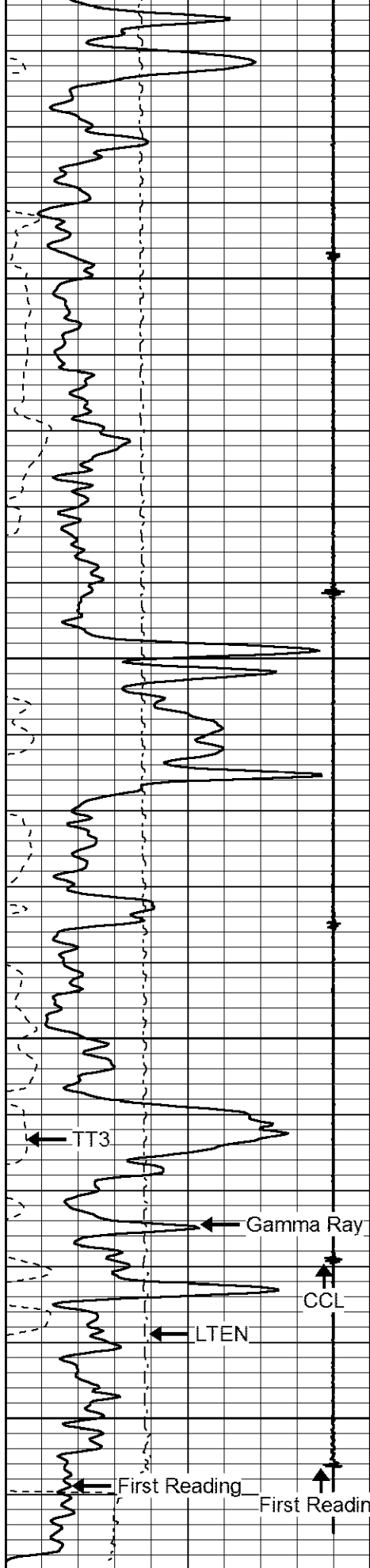
3000

3050

3100

3150





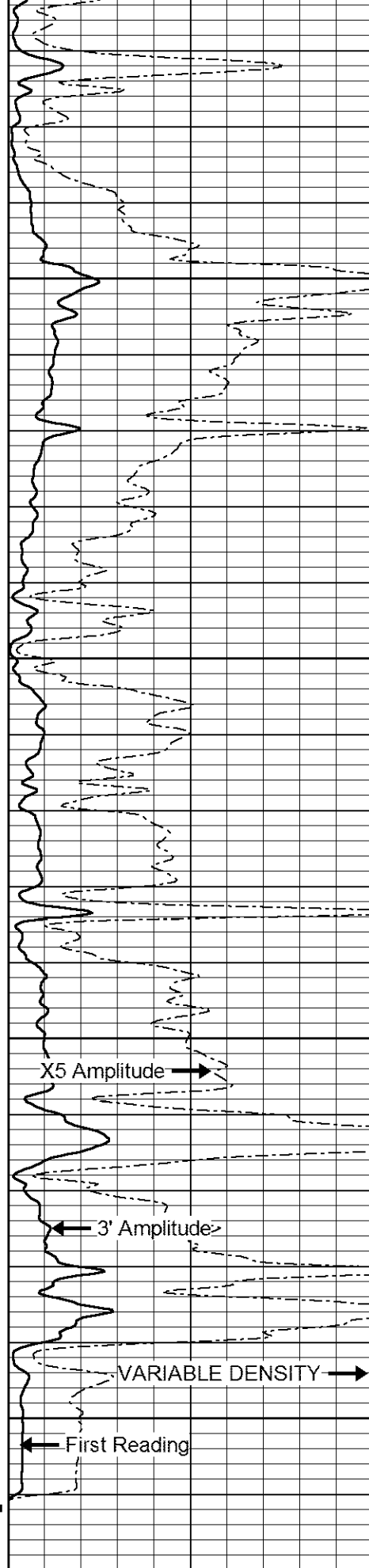
3200

3250

3300

3350

LTD 3362

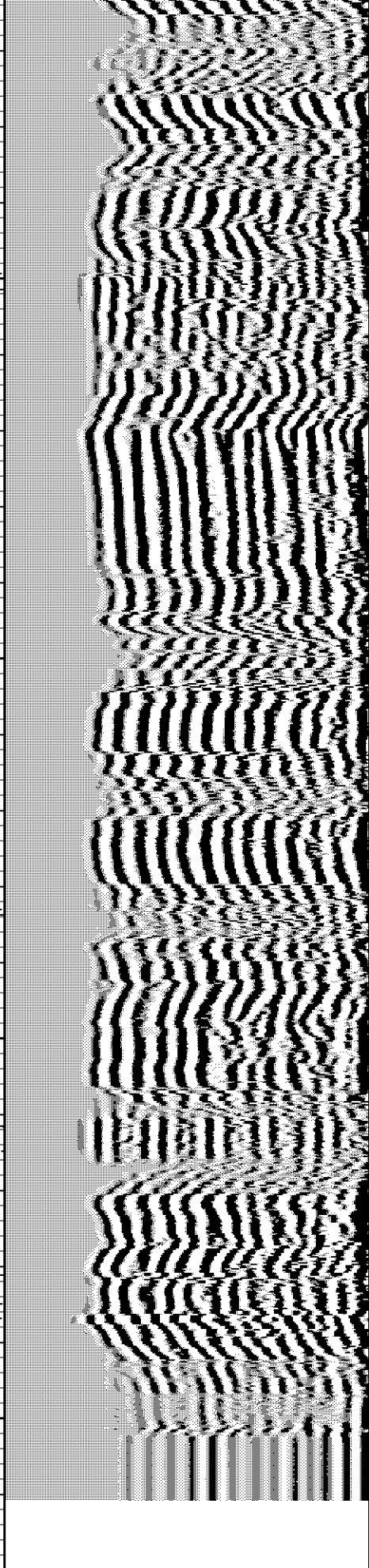


X5 Amplitude

3' Amplitude

VARIABLE DENSITY

First Reading



9 Collar Locator -1

0 Gamma Ray (GAPI) 150

320 TT3 (usec) 120

0 Amplitude (mV) 100

0 X5 Amplitude (mV) 20

200 VARIABLE DENSITY 1200

0 TT3 (usec) 2000
 0 LTEN (lb) 2000

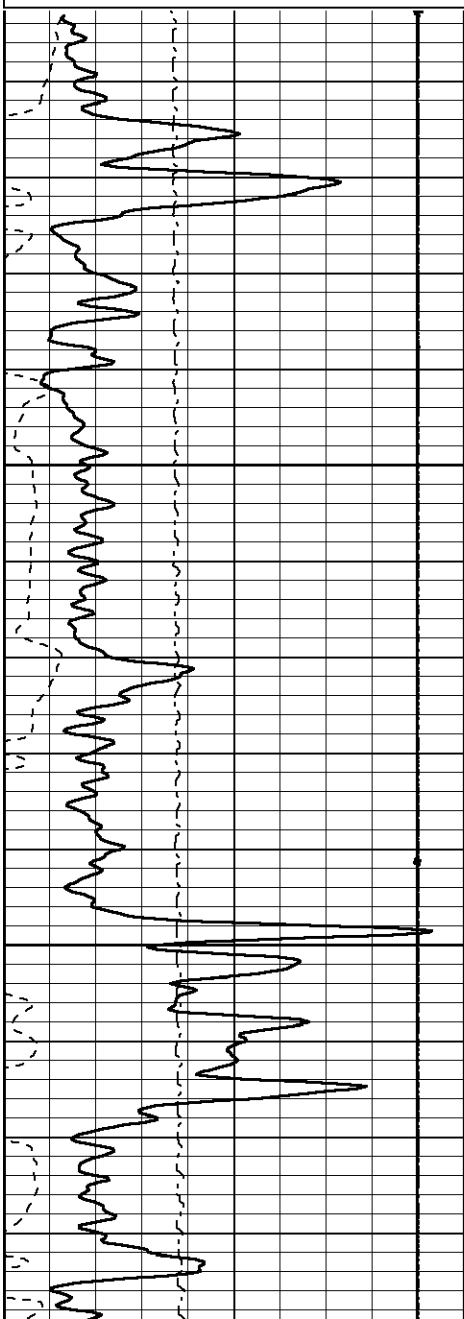


REPEAT SECTION

Database File: hoffmanswd.db
 Dataset Pathname: pass2
 Presentation Format: cbl02
 Dataset Creation: Wed Dec 17 15:20:28 2014 by Log 7.0 B1
 Charted by: Depth in Feet scaled 1:240

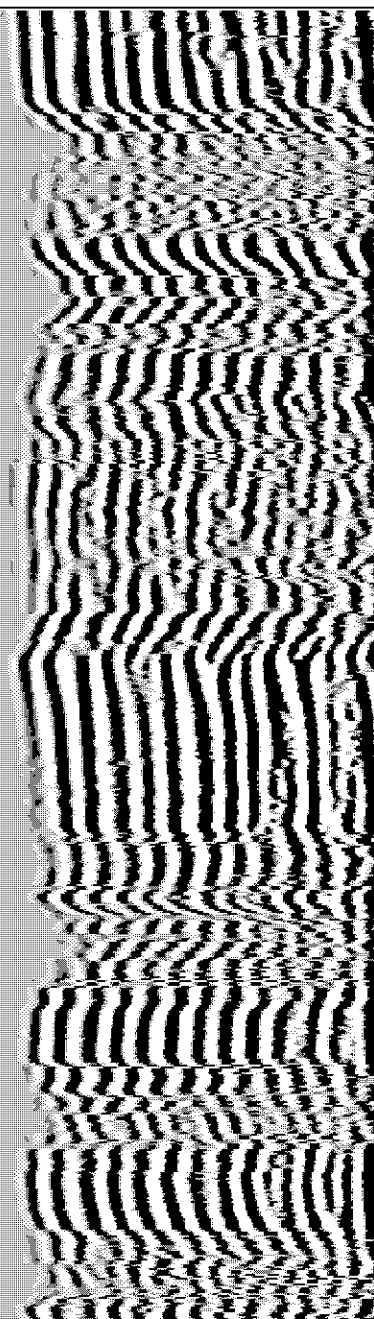
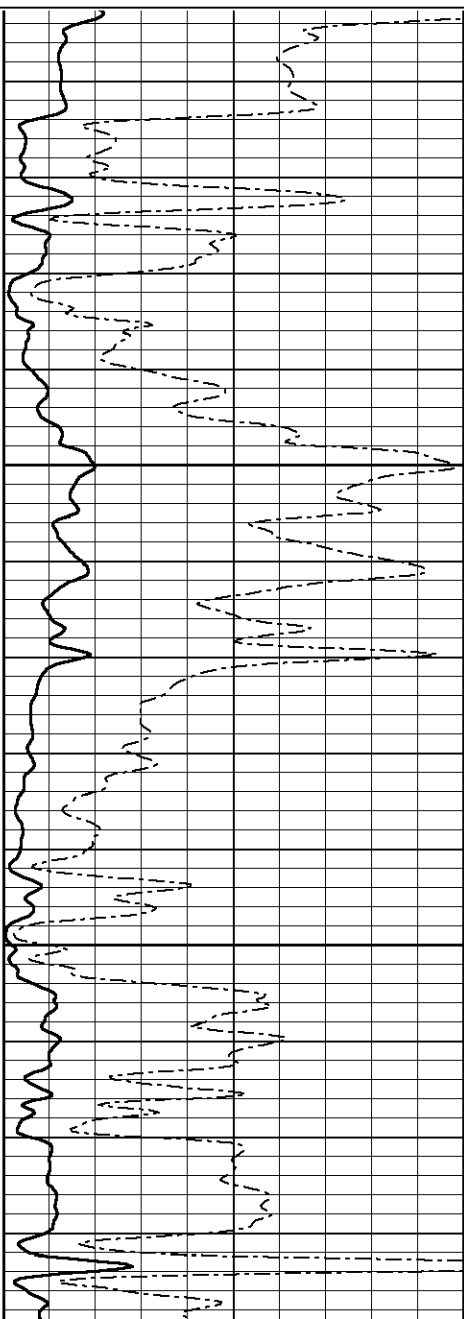
| | | |
|-----|------------------|------|
| 9 | Collar Locator | -1 |
| 0 | Gamma Ray (GAPI) | 150 |
| 320 | TT3 (usec) | 120 |
| 0 | LTEN (lb) | 2000 |

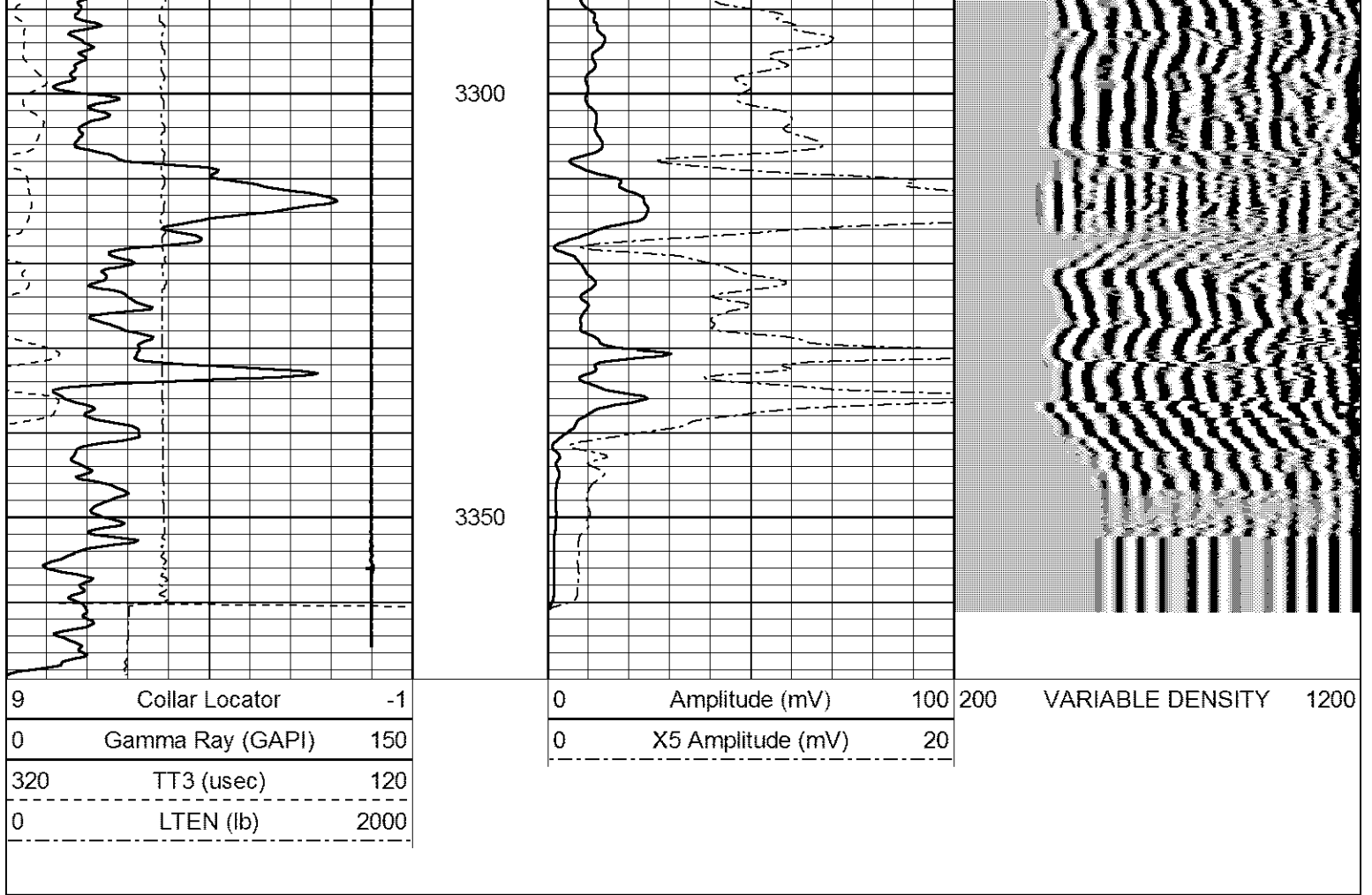
| | | | | | |
|---|-------------------|-----|-----|------------------|------|
| 0 | Amplitude (mV) | 100 | 200 | VARIABLE DENSITY | 1200 |
| 0 | X5 Amplitude (mV) | 20 | | | |



3200

3250





| 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 | | | | | |

00
00
00
00
00
00
00
00
00

CCL

3.69

CCL-probe (cclpr)
probe ccl

1.55

2.75

30.00

GR

0.90

GR-probegr (progr1)
probe gamma ray

3.02

2.75

20.00

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

DARRAH OIL

Scale 1:240 Imperial

Well Name: Hoffman B #6 SWD (OWWO)
 Surface Location: N2/S2/NW Sec 7 T16S R13W
 Bottom Location:
 API: 15-009-05013-0001
 License Number: 5088
 Spud Date: 11/13/2014 Time: 12:00 PM
 Region: Barton County
 Drilling Completed: 11/17/2014 Time: 9:00 AM
 Surface Coordinates: 1650' FNL & 1320' FWL
 Bottom Hole Coordinates:
 Ground Elevation: 1916.00ft
 K.B. Elevation: 1921.00ft
 Logged Interval: 3400.00ft To: 3713.00ft
 Total Depth: 3713.00ft
 Formation:
 Drilling Fluid Type: Chemical mud

OPERATOR
 Company: Darrah Oil Company, LLC
 Address: 225 N. Market Suite #300
 Wichita, KS 67202
 Contact Geologist: Seth Evenson
 Contact Phone Nbr: (316) 219-3390
 Well Name: Hoffman B #6 SWD (OWWO)
 Location: N2/S2/NW Sec 7 T16S R13W API: 15-009-05013-0001
 Pool: Trapp Field: Trapp
 State: Kansas Country: United States

ELEVATIONS
 K.B. Elevation: 1921.00ft Ground Elevation: 1916.00ft
 K.B. to Ground: 5.00ft

SURFACE CO-ORDINATES
 Well Type: Vertical
 Longitude: Latitude:
 N/S Co-ord: 1650' FNL
 E/W Co-ord: 1320' FWL

LOGGED BY
 Company: Darrah Oil Co. LLC
 Address: 225 N. Market, Suite #300
 Phone Nbr: (316) 219-3390
 Logged By: Geologist Name: Seth L. Evenson

CONTRACTOR
 Contractor: Mallard J.V.
 Rig #: 1
 Rig Type: Standard Double
 Spud Date: 11/13/2014 Time: 12:00 PM
 TD Date: 11/17/2014 Time: 9:00 AM
 Rig Release: 11/18/2014 Time: 10:00 AM

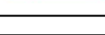
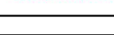
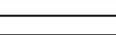
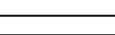
CASING SUMMARY

| | Surface | Intermediate | Main | | |
|-------------|-----------|--------------|---------|-------------|--------------------|
| Bit Size | | | 8.75 in | | |
| Hole Size | | | | | |
| | Size | Set At | Type | # of Joints | Drilled Out At |
| Surf Casing | 10 3/4 in | 345 ft | | | |
| Int Casing | 7 in | 3419 ft | | 79 | 11/17/2014 3:00 PM |
| Prod Casing | | | | | |

CASING SEQUENCE

| Type | Hole Size | Casing Size | At |
|------|-----------|-------------|---------|
| | 0.00 in | 0.00 | 0.00 ft |

ROCK TYPES

 Dolsec
  Meta
  Shcol
  Quartz

ACCESSORIES

 Sandstone
 Shale

OTHER SYMBOLS

OIL SHOWS

- Even Stn
- Spotted Stn 50 - 75 %
- Spotted Stn 25 - 50 %
- Spotted Stn 1 - 25 %
- Questionable Stn
- D Dead Oil Stn
- Fluorescence

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

