

FINAL WELL REPORT
PARAMOUNT RESOURCES LTD.

PARA ET AL CAMERON J-04

Grid: 60⁰ 10', 117⁰ 30'

DATE: November 30, 2007

COMPANY REPRESENTATIVE:
Dave Block

TABLE OF CONTENTS

A.	INTRODUCTION	Page
	Summary.....	1
	Locality Map	3
B.	GENERAL DATA	
	Well Name.....	4
	Well Location	4
	Unique Well Identifier.....	4
	Operator	4
	Contractor	4
	Drilling Unit	4
	Position Keeping	4
	Support Craft	4
	Drilling Unit Performance.....	4
	Difficulties and Delays	4
	Total Well Cost.....	4
	Bottom Hole Co-ordinates.....	4
C.	SUMMARY OF DRILLING OPERATIONS	
	Elevations	5
	Total Depth.....	5
	Date and Hour Spudded.....	5
	Date Drilling Completed	5
	Date of Rig Release	5
	Well Status	5
	Hole Sizes and Depths.....	5
	Casing and Cementing Record	5
	Sidetracked Hole	6
	Drilling Fluid.....	6
	Fishing Operations.....	7
	Well Kicks and Well Control Operations.....	7
	Formation Leak Off Tests.....	7
	Time Distribution	8
	Deviation Survey	12
	Abandonment Plugs.....	12
	Composite Well Record	12
	Completion Record.....	13

D.	GEOLOGY	Page
	Geological Summary	14
	Tops.....	14
	Sample Descriptions	14
	Coring Record.....	14
	Gas Detection Report.....	14
	Drill Stem Tests	14
	Well Evaluation	14
	Analyses.....	14
	Mud Salinity Record	14
	Gas, Oil & Water	14
	Formation Stimulation	14
	Formation and Test Results	14
	Detailed Test Pressure Data Readings	14
E.	ENVIRONMENTAL WELL ANALYSIS	15
F.	ATTACHMENTS TO WELL HISTORY REPORT	16
	1. Geological report	
	2. Geological composite log	
	3. Directional survey report	
	4. Survey plan	

A. INTRODUCTION

Paramount Resources Ltd. (Paramount) drilled Para et al Cameron J-04 as a 1449 meter delineation well. The well was spudded on January 26, 2007 and finished drilling on February 14, 2007. The purpose of the well was to evaluate hydrocarbon potential. The primary target was the Sulphur Point Dolomite formation which was encountered at a depth of 1407 mKB. The secondary target was the Slave Point formation which was encountered at a depth of 1342 mKB.

The drilling contractor was Precision Drilling Ltd based out of Calgary, Alberta. Precision's Rig # 129 was used and is a land rig rated for 1600 m. The rig had a mud system capacity of 53 m³ and was equipped with a boiler.

The well was drilled on Production License No PL-013 in which Paramount has an 88% working interest under Paramount's Operating License No 1159.

The exact co-ordinates of the well are as follows:

Surface: Latitude: 60° 03' 31.397"
 Longitude: 117° 30' 47.877"

Cancor Rathole Inc. drilled a 610 mm conductor hole to 12.5 meters. From surface to 0.3 meters was snow pad, from 0.3 to 0.6 meters was dry muskeg, from 0.6 - 1.2 meters was permafrost muskeg, from 1.2 - 2.4 meters was permafrost clay, and from 2.4 to 12.5 meters was clay with boulders. A heavy walled 406 mm conductor pipe was cemented at 12.5 meters.

Precision #129 was moved onto the location starting January 25, 2007. The rig was rigged up, a diverter was nipped up and drilling commenced January 26, 2007 at 16:30 hours. A 311 mm surface hole was drilled to 430 mKB. There were some minor mud ring problems, but no major lost circulation problems were encountered in drilling the surface hole. A string of 219.1 mm, 35.7 kg/m, J-55, ST&C surface casing was run to 430 mKB. The casing was cemented with 36.5 t class 'G' cement plus 2.0% CaCl₂. There were 8.0 m³ of cement returned to surface while cementing. The plug was bumped and the float held OK. The plug was down at 20:00 hours on January 30, 2007.

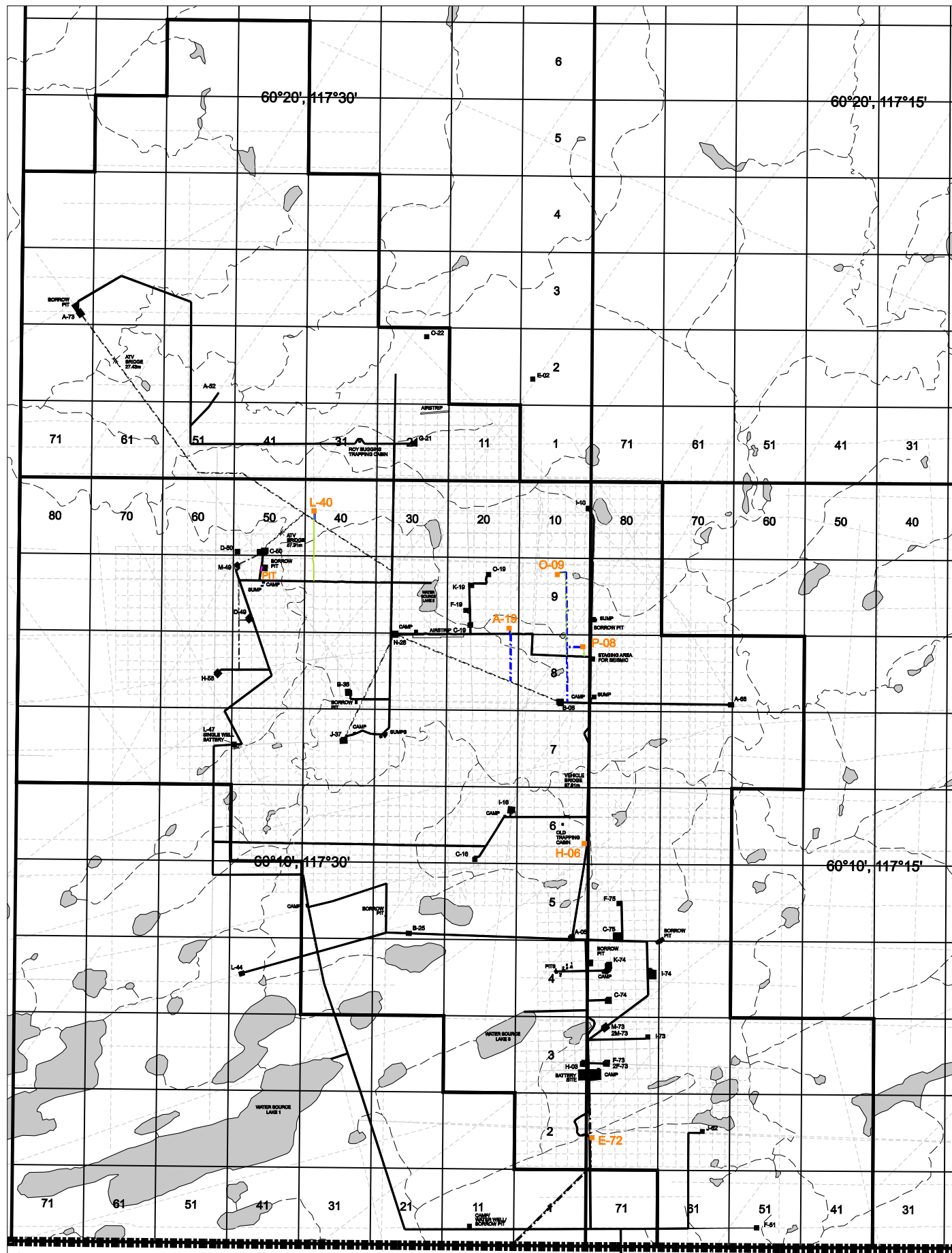
The casing and conductor were trimmed and the casing bowl was welded on. The BOP's were installed and function tested. The BOP's and manifold were pressure tested to 1500 kPa low pressure and 14,000 kPa high pressure. The Hydril was pressure tested to 1500 kPa and 10,500 kPa.

The float collar and shoe were drilled out to 437 mKB on January 31, 2007. A leak off test was performed with the leak off gradient found to be 30.3 kPa/m. A 200 mm hole was drilled with a flocculated water system to approximately 900 m. Gel was added to the drilling fluid at that point and the gel/chem mud system was then used to drill to a total depth of 1449 mKB. Minor drilling fluid losses started at 598 m and major losses were noted from 690 - 729 m. The losses were cemented off with four cement plugs. After the plugs were drilled out there were still minor losses which were controlled with LCM's while drilling to TD. Weatherford ran induction, density, and sonic logs from bottom to surface casing and a micro-resistivity log from bottom to 1300 mKB.

139.7 mm, 23.07 kg/m, J-55, LT&C production casing was run and set at 1449 mKB with

a stage tool included in the string at 566 m. It was cemented in two stages with the first stage consisting of 6.0 t Thixlite + 1% SMS followed by 13.0 t Expando LWL + 0.1% CFL-3 + 0.2% LTR + 0.2% SPC-II and the second stage consisting of 11.0 t Thixlite + 1% SMS. There were no cement returns to surface. The plug was bumped and held.

Precision #220 was rigged out and released at 23:45 hours on February 16, 2007.



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LEGEND:

- WELL SITES
- PIPELINE ROW
- ROAD ACCESS
- PIT



REVISED:
MODEL: AsBuiltJuly2005_with6Sites
Date: 14-NOV-05
Job No.: 04-1150G
Filename: CH BASE NAD83.DGN

Compiled Map Showing
SIX SITES PROGRAM
with
AS-BUILT JULY 2005
Oil & Gas Activity

CAMERON HILLS AREA
Northwest Territories
NAD83 UTM Projection
SCALE 1:125 000

B. GENERAL DATA

1. Well Name: Para et al Cameron J-04

Authority to Drill a Well No: 2034

Exploration Agreement Number: PL-013

Location Unit: J

Section: 04

Grid Area: 60⁰ 10' N, 117⁰ 30' W

Classification: Delineation
2. Coordinates:
 Surface: Latitude: 60⁰ 03' 31.397"
 Longitude: 117⁰ 30' 47.877"
3. Unique Well Identifier: 300J046010117300
4. Operator: Paramount Resources Ltd.
5. Contractor: Precision Drilling
6. Drilling Unit: Precision Rig # 129, Land Rig
7. Position Keeping: N/A
8. Support Craft (Helicopter): N/A
9. Drilling Unit Performance: Good
10. Difficulties and Delays: Major lost circulation that was controlled by cementing.
11. Total Well Cost: \$1,204,000
12. Bottom Hole Co-ordinates: same as surface

C. SUMMARY OF DRILLING OPERATIONS

1. Elevations:
 - Ground: 764.62 m above sea level
 - KB: 769.2 m above sea level
 - KB to Casing Flange: 4.6 m
2. Total Depth:
 - FTD: 1449 mKB
 - PBTD: 1436 mKB
3. Date and Hour Spudded: January 26, 2007 at 04:15
4. Date Drilling Completed: February 14, 2007
5. Date of Rig Release: February 16, 2007
6. Well status: Cased and Suspended
7. Hole Sizes and Depths:
 - Conductor Hole: 610 mm to 12.5 m
 - Surface Hole: 311 mm to 430 mKB
 - Main Hole: 200 mm to 1449 mKB
8. Casing and Cementing Record:
 - Conductor Hole:
 - Casing Size: 406 mm
 - Wall Thickness: 9.5 mm
 - Depth Set: 12.5 m
 - Cut Height: At Surface
 - Date Set: January 24, 2007
 - Cement Volume: 1.7 tonnes
 - Cement Type: class 'G'
 - Surface Hole:
 - Casing Make: Ipsco
 - Casing Size: 219.1 mm
 - Casing Weight: 35.7 kg/m
 - Casing Grade: J-55
 - Thread: ST&C
 - Number of Joints: 32
 - Depth Set: 430 mKB
 - Cut Height: At surface
 - Date Set: January 30, 2007
 - Cement Volume: 36.5 Tonnes
 - Float Shoe Depth: 430 mKB
 - Float Collar Depth: 416 mKB
 - Cement Type: Class 'G'

Additives: 2.0% CaCl₂
 Cement Top: Surface
 Casing Bowl Size: 228 mm x 219 mm x 21 MPa
 Casing Bowl Make: ABB Vetco

Main Hole:

Casing Size: 139 mm
 Casing Weight: 23.07 kg/m
 Casing Grade: J-55
 Casing Make: IPSCO
 Number of Joints: 108
 Thread: LT&C
 Depth Set: 1449 mKB
 Cut Height: Surface
 Date Set: February 16, 2007
 Float Shoe Depth: 1449 mKB
 Float Collar Depth: 1436 mKB
 Stage Tool Depth: 566 mKB
 Stage #1:
 Cement Volume 1: 6.0 Tonnes
 Cement Type 1: Thixlite
 Additives 1: 1% SMS
 Cement Volume 2: 13.0 Tonnes
 Cement Type 2: Expando LWL
 Additives 2: 0.1% CFL-3 & 0.2% LTR & 0.2% SPC-II
 Stage #2:
 Cement Volume 1: 11.0 Tonnes
 Cement Type 1: Thixlite
 Additives 1: 1% SMS
 Cement Top: Close to surface

9. Sidetracked Hole: N/A

10. Drilling Fluid:

Conductor Hole: Water
 Properties: N/A

Surface Hole: Gel - Chemical
 Properties: Viscosity: 29 - 55 sec/L
 Weight: 1010 - 1190 kg/m³
 PH: 9.0 - 10.0

Main (425 – 900 m): Floc water
 Properties: Viscosity: 29 sec/L

Weight:	1000 - 1040 kg/m ³
PH:	9.0 - 11.0

Main (900 m – TD): Properties:	Gel-chem	
	Viscosity:	4 - 75 sec/L
	Weight:	1030 - 1100 kg/m ³
	PH:	9.0 – 11.0
	Water loss:	11.0 cc
	Solids:	Not reported
	Gels:	Not reported
	Filtrate:	Not reported
PV / YP:	Not reported	

11. Fishing Operations: N/A

12. Well Kicks and Well Control Operations: N/A

13. Formation Leak Off Tests:

Depth:	437 m
Fluid Density:	1000 kg/m ³
Applied Pressure:	8800 kPa
Hydrostatic Pressure:	4218 kPa
Mud Weight Equivalent:	3089 kg/m ³
Casing setting depth:	430 mKB

The surface casing leak-off test was taken to a gradient of 30.3 kPa/m before leak off was detected.

14. Time Distribution

Date	Hours	Activity
07/01/24	0.75	Safety meeting
	19.5	Move rig and camp to site
	3.75	Wait on daylight
07/01/25	2.0	Safety meeting
	7.75	Wait on daylight
	14.25	Move rig and rig up rig
07/01/26	1.25	Safety meeting
	0.25	Rig service
	7.0	Rig up rig
	8.75	Nipple up diverter
	5.0	Drill
	1.75	Survey
07/01/27	0.75	Safety meeting
	0.75	Rig service
	19.5	Drill
	3.0	Survey
07/01/28	0.75	Safety meeting
	0.5	Rig service
	10.5	Drill
	2.0	Survey
	6.75	Trip
	1.25	Reaming
	2.0	Circulate and condition mud
	0.25	Run casing
07/01/29	1.0	Safety meeting
	0.5	Rig service
	11.0	Run casing
	2.5	Circulate and condition mud
	9.0	Trip
07/01/30	0.75	Safety meeting
	0.5	Rig service
	2.75	Trip
	5.5	Reaming
	4.25	Run casing
	5.0	Circulate and condition mud

	1.75	Cement casing
	3.5	Wait on cement
07/01/31	1.0	Safety meeting
	0.25	Rig service
	1.25	Wait on cement
	2.5	Weld casing bowl
	5.75	Nipple up BOP
	6.25	Test BOP's
	1.0	Slip and cut drill line
	2.5	Repair kelly
	2.0	Trip
	1.25	Drill out casing shoe
	0.25	Circulate and condition mud
07/02/01	0.75	Safety meeting
	0.75	Rig service
	0.5	Survey
	14.0	Drill
	2.75	Circulate and condition mud
	0.75	Leak off test
	4.5	Trip
07/02/02	0.75	Safety meeting
	0.5	Rig service
	2.0	Wait on cementers
	5.25	Circulate and condition mud
	9.0	Trip
	6.0	Drill out cement plugs
	0.5	Pump cement plugs
07/02/03	0.75	Safety meeting
	0.75	Rig service
	7.0	Trip
	7.5	Drill out cement plugs
	0.75	Drill
	7.0	Circulate and condition mud
	0.25	Pump cement plugs
07/02/04	1.0	Safety meeting
	0.75	Rig service
	7.0	Trip
	4.25	Circulate and condition mud

	6.25	Pump cement plugs
	4.25	Wait on cement
	0.5	Drill out cement plugs
07/02/05	1.0	Safety meeting
	0.75	Rig service
	6.0	Drill out cement plugs
	12.0	Drill
	3.5	Circulate and condition mud
	0.75	Survey
07/02/06	0.75	Safety meeting
	0.75	Rig service
	1.25	Survey
	14.25	Drill
	4.25	Trip
	0.5	Slip and cut drill line
	2.25	Circulate and condition mud
07/02/07	0.75	Safety meeting
	0.75	Rig service
	0.5	Survey
	8.5	Drill
	13.5	Circulate and condition mud
07/02/08	0.75	Safety meeting
	0.75	Rig service
	5.0	Trip
	2.0	Drill
	15.5	Circulate and condition mud
07/02/09	0.75	Safety meeting
	0.75	Rig service
	13.25	Circulate and condition mud
	4.75	Trip
	1.5	Reaming
	3.0	Drill
07/02/10	0.75	Safety meeting
	0.75	Rig service
	8.75	Drill
	9.5	Circulate and condition mud
	2.0	Trip
	0.5	Thaw kelly

	1.75	Survey
07/02/11	0.75	Safety meeting
	0.75	Rig service
	9.75	Drill
	11.75	Circulate and condition mud
	1.0	Thaw kelly
07/02/12	1.0	Safety meeting
	0.75	Rig service
	1.25	Drill
	3.25	Circulate and condition mud
	10.25	Trip
	6.5	Coring
	1.0	Reaming
07/02/13	1.25	Safety meeting
	0.75	Rig service
	10.25	Coring
	1.0	Circulate and condition mud
	1.5	Reaming
	8.25	Trip
	1.0	Slip and cut drill line
07/02/14	0.75	Safety meeting
	0.75	Rig service
	9.25	Drill
	3.5	Coring
	8.25	Trip
	1.5	Reaming
07/02/15	0.75	Safety meeting
	0.75	Rig service
	0.25	Survey
	12.25	Trip
	7.75	Logging
	2.25	Circulate and condition mud
07/02/16	1.25	Safety meeting
	0.25	Rig service
	6.5	Run casing
	2.0	Circulate and condition mud
	3.0	Cement casing
	3.75	Nipple down BOP's

	7.25	Rig out rig
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Time Break Down by Activity:

<u>Activity</u>	<u>Hours</u>
Move on, rig up:	40.75
Wait on daylight	11.5
Drilling:	127.25
Surveying:	11.75
Reaming:	12.25
Tripping:	103.0
Circulate and condition mud:	106.75
Running casing:	22.0
Cementing casing:	4.75
Wait on cement	9.0
Wait on cementers:	2.0
Pump cement plugs:	7.0
Drill out cement plugs:	20.0
Drill out casing shoe:	1.25
Rig service:	14.0
Repair Kelly:	2.5
Thaw Kelly:	1.5
Safety meetings:	22.75
Nipple up diverter:	8.75
Weld casing bowl:	2.5
Nipple up BOP's:	5.75
Pressure test BOP's:	6.25
Leak off tests:	0.75
Coring:	20.25
Logging:	7.75
Slip & cut drill line:	2.5
Nipple down BOP's:	3.75
Rig out:	7.25

15. Deviation Survey: See deviation survey summary on page 12-1 of the Geological Report in the Attachments Section.
16. Abandonment Plugs: N/A
17. Composite Well Record: See the copy of the strip log in the Geological Report in the Attachments Section.
18. Completion Record: Reported in a separate report.

D: GEOLOGY

GEOLOGICAL SUMMARY

Tops: See page 16-1 of the Geological Report in the Attachments Section.

Sample Descriptions: See page 19-1 to 19-9 of the Geological Report in the Attachments Section.

Coring: Core #1: Sulphur Point Dolomite: 1406.0 - 1413.4 mKB

Cut: 7.4 m

Recovered: 7.63 m

Core #2: Sulphur Point & Muskeg: 1413.4 - 1425.0 mKB

Cut: 11.6 m

Recovered: 11.6 m

Total Depth: 1406 mKB

GAS DETECTION REPORT

A gas detector was utilized from the drill out of the conductor pipe to total depth. The gas detector readings are included on the composite geological log at the end of the Geological Report in the Attachments Section.

DRILL STEM TESTS: None.

WELL EVALUATION

The following logs were run:

Array Induction Log: 420 - 1449 mKB

Photo Density Dual Spaced Neutron Log: 0 - 1442 mKB

Compensated Sonic Log: 352 - 1446 mKB

Micro Log: 1300 - 1428 mKB

GAS, OIL, & WATER ANALYSES: N/A

FORMATION STIMULATION: N/A

FORMATION AND TEST RESULTS: N/A

DETAILED TEST PRESSURE DATA READINGS: N/A

E. ENVIRONMENTAL CONSIDERATIONS

There are no known outstanding environmental considerations on this well. The well was drilled sumpless with all drilling fluids being held in tanks on the lease. At the end of the job the water was stripped from the mud system and hauled to L-73 for re-use. The solids were hauled to a remote site at J-04 60° 10' N, 117° 30' W where they were disposed of using the mix/bury/cover technique.

Para Et Al Cameron J-04

300/J-04-60-10-117-30

For



Paramount Resources Ltd.

Prepared For: Llew Williams

Prepared By: M. A. Salam Khan



 **Khan Petroleum Ltd.**  
(A Complete Wellsite Solution By PowerLog)

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Table of Contents

Section	Page
Well Abstract	1-1
Well Summary	2-1
Daily Drilling Summary	3-1
Casing Strings	4-1
Bit Record Summary (IADC)	5-1
Core Descriptions	8-1
Logging Reports	9-1
Deviation Survey Points	12-1
Mud Data	14-1
Work Schedule	15-1
Formation Tops	16-1
Sample Descriptions w/ Formation Tops	19-1

The proposed Para Et Al Cameron J-04 an exploratory well was a part of an extensive exploratory drilling program in the Cameron Hills. The well was proposed to drill vertically as a new delineation well. Paramount Resources Ltd. retained the services of Precision Drilling Rig # 129.

The primary objective is to penetrate the prognosticated oil productive zone in the Sulphur Point Dolomite Section of Sulphur Point Formation. Productions are being drawn from some wells.

Secondary targets were to test gas and heavy hydrocarbon possibilities of in the upper limestone section of Sulphur Point and in the Slave Point formation respectively. The Cameron Hills identifies itself with its structure complexity leading to insufficient geological information. The well bore information will validate the seismic picking of the reservoirs and to learn more about the complex reservoir characteristic of the structures.

The well was spudded at 16:00hrs on the January 26, 2007. Drilling of 311mm hole from surface to 353.0m was completed using one rock bit in 34.75 on bottom bit hours. 219.1mm surface casings were run in setting the shoe at 430.0 and cemented as per program.

Partial mudloss was encountered at 598.0m KB during drilling of 200mm hole and total loss encountered at 676.0m KB. Four cement plugs including two cement squeeze jobs failed to prevent from mudloss. Drilling to TD was completed with partial returns by adding LCM materials and Gel in the mud continuously.

Due to continuous mudloss with partial returns drilling parameters could not be kept consistently. This resulted problems in collecting ditch samples and proper gas show recordings.

Two cores were cut from 1406.0m to 1413.4m and 1425.0m KB respectively with 100% recovery. 200mm hole drilled down to 1449.0m - TD of the well.

Two bits were used in drilling 200mm hole section consuming 92.0 on bottom bit hours including the coring time. Gel Chem mud was used for the surface hole and displaced with Floc water till 850.0m and back to Gel Chem during the last section of drilling.

The well was cased for production tests. The ECP was set at 568.64m KB with the 139.7mm production casing string. The Casing shoe was set at 1449.50m KB.

The Para Et Al Cameron J-04 well data is a source of geological information of the morphological changes and reservoirs characteristics of the crater of the complex of Cameron Hills. The fractured and faulted (?) section in the Wabamun Formation leads to mudloss through its crater and encountered in all the wells drilled. The geology section in the Strip Log gives a brief representation of the individual stratigraphic formations.

The Sulphur Point Limestone section was 10.7m thick from at 1389.0m to 1407.2m RKB. It is comparatively less porous than that of the dolomite section varying between 3% - 8%. No returns were received during drilling of the Limestone Section.

The Dolomite Section was cored and is 16.6m thick. Detail descriptions are given in the core description.

The Slave Point formation was picked up at 1342.5m and 41m thick. Gas shows were noticed although the section with maximum 511/56 units and 640/56 units at 1362.0m and 1372.5m RKB respectively. The section was drilled with partial returns. The Sulphur Point Limestone section was of predominately tan, brown, greenish brown, dark brown, partly light yellow with dark brown stain and rare creamy color. They are friable to crumpled and moderately hard, blocky to subblocky, smooth to gritty, predominately microcrystalline to very fine crystalline debris, partly cryptocrystalline, predominately wackestone, partly mudstone, partly grainy, intraclasts & occasionally bioclastic debris and calcarenite. They are partly argillaceous, traces of fine crystalline dolomite, rare siltstone stringer inclusion, traces of greenish brown shale fragments, and traces of disseminated granular pyrite are found as accessories.

Weak odor of oil was noticed from the beginning of drilling this interval. Traces of light brown oil show was noticed which gradually increased between 1360m to 1375m RKB and faded away with the boundary section of the underline F4 Marker which hardly can be recognized from the drilling parameters and ditch cuttings.

The open hole logging was completed by Weatherford Logging Services.

MAI/MSS/MPD/MDN/MML/ISC/MGS/MTC/MFE/MCG tools were run in. From the ROP and gas data, ditch cuttings and logs the Sulphur Point Dolomite Section does carry positive reservoir properties for production including good oil shows. Limestone section of the Sulphur Point possesses comparatively tight porosity than that of the Dolomite Section. The Slave Point has got good reservoir properties and could be tested for the commercial viability.

Further evaluation and studies are also proposed for the quest of geological interest in the Cameron Hills Field.

Well Summary

Storage Units: Metric

Well Information

Operator: Paramount Resources Ltd.
Well Name: Para Et Al Cameron J-04
Location: 300/J-04-60-10-117-30
UWI: 300J04601011730
Pool: Sulphur Point & Slave Point.
Field: Cameron Hills
State / Province: Northwest Territory
Country: Canada
License Number: 1159
Well Status: Cased for production testing.

Surface Co-ordinates

Hole Type: Vertical
Latitude: 60°3'31.3"

Fault Indicator:
Longitude: 117°30'47.8"

N / S:
E / W:

Bottom Hole Co-ordinates

Latitude: 60°3'31.3"

Longitude: 117°30'47.8"

N / S:
E / W:

Elevations

Ground Elevation:	765.20	Kelly Bushing to Ground:	4.00
Kelly Bushing Elevation:	769.20	Cut (-):	0.00
Casing Flange Elevation:	4.00	Fill (+):	0.60

Total Depth

	Measured Depth	True Vertical Depth
Total Depth Driller (Tally) :	1,449.00	1,449.00
Total Depth Driller (Strap or SLM):	1,449.00	1,449.00
Total Depth Logger:	1,449.50	1,449.50

Miscellaneous Depths

Plugback Depth:	Water Depth Reference:
Sidetrack Depth:	Water Depth:

Well Summary

Drilling Contractor:	Precision Rig# 129.	Spud Date:	Jan 26, 2007 @ 16:00
Rig Release Date:	Feb 16, 2007 @ 23:59	Total Depth Date:	Feb 15, 2007 @ 00:00

Cores	#	Formation	Interval	Cut	Recovered	%
	2	Sulphur Point & Muskeg	1,413.40 1,425.00	11.60	11.60	100.00
	1	Sulphur Point Dol.	1,406.00 1,413.40	7.40	7.63	103.11

Casing Summary

Casing Type	Casing Size	Landed Depth	Hole Size
Surface	219.1	430.00	311.0
Production	139.7	1,449.00	200.0

Paramount Resources Ltd.
UWI 300J04601011730

Para Et Al Cameron J-04
300/J-04-60-10-117-30
Page 2-1

Daily Drilling Summary

Storage Units:

Metric

Date	Depth	Progress	Rotating Hours	Avg. P.R.	Daily Operational Summary
Jan 26, 07	0.00		0.00	0.0	Rig up drilling equipments. Safety meeting . Nipple up diverter line.
Jan 27, 07	194.00	194.00	11.20	17.3	Nippling up diverter line. Rig up all drilling equipments. Test diverter hydril. Pre-spud safety meeting. Spud the well at 1600hrs. Drilling of 311mm hole from surface to 194.0m. Conduct periodical surveys. Continue drilling.
Jan 28, 07	388.00	194.00	17.50	11.1	Continue drilling of 311mm surface hole from 194.0m to 388.0m with periodical surveys. Encounter mud ring at 387.0m Trip out for mud ring at 387.0m.
Jan 29, 07	430.00	42.00	0.00	0.0	Trip out for cleaning up mud ring encountered at 387.0m. Safety meeting. RIH to 302.0m. Ream down to bottom. Resume drilling and drill down to 430.0m - TD of the surface hole section. Conduct periodical surveys. Circulation and mud conditioning to 1170kg/m3 and FV: 90 sec. Wiper trip to BHA length 180m. Mud conditioning to MW: 1190 kg/m3 and FV: 120 sec. Safety meeting with Power Tongs guys. RIH 219.1mm surface casings. Encounter gravel at 65m. POOH casings and lay out the same. RIH with a rock bit and clean up assembly.
Jan 30, 07	430.00	0.00	0.00	0.0	RIH with a rock bit and clean up assembly. Ream down the tight spots. Circulation and mud conditioning to 1200kg/m3 and FV: 120sec. Safety meeting. POOH. Rig up casing equipments. RIH of 219.1mm surface casing. Casing bridged out at 80m for boulders. POOH and lay down casings. Safety meeting prior to RIH with a rock bit. RIH - reaming off the tight spots. Present bit depth 261m.
Jan 31, 07	430.00	0.00	0.00	0.0	Continue reaming from 56.0m to 143.0m and 180.0m to 205.0m. POOH. Pre-job safety meeting with the casing hands. RIH 219.1mm surface casings. Circulation and mud conditioning through the casing string. Mud conditioned to 1170kg/m3 and FV: 50sec. Run 32 joints: 431.11m; 219.1mm; 35.72kg/m; IPSCO; J-55 surface casings. Set the casing shoe at 430.0m. Conduct cement job with Sangel - pre-mix 36.5 tones 0.1.0 Class "G" + 2% CaCl2. Plug down at 2015hrs. 8m3 good cement return. WOC. Safety meeting. Cut and dress casing string. Nipples up BOP stack.

Daily Drilling Summary

Storage Units:

Metric

Date	Depth	Progress	Rotating Hours	Avg. P.R.	Daily Operational Summary
Feb 1, 07	600.00	170.00	6.70	25.4	Nipples up BOP stack. Test BOPs with Rainbow Pressure Testers. Pressure tested Manifold valves, chokes, all flanges, casing bowl, HCR and manual valves, Blind Rams, kill lines, check valve drilling spool, stabbing valve, inside BOP, Pipe Rams, and annular BOP. Safety meeting. Slip and cut drill line. RIH with a new 200mm PDC bit on drilling BHA, Safety meeting. Tag cement at 416.0m. Drill out float shoe, cement, shoe and 7m new formation. Circulation and mud conditioning. Conduct LOT with Floc water mud at 880kPa equivalent to 30.28kPa/m. Resume drilling and drill down to 600m. Max FG: 1835/241 units against 485.m. Continue drilling.
Feb 2, 07	729.00	129.00	8.20	15.7	Continue drilling from 600.0m to 690.0m with periodical surveys. Lost circulation. Mix and pump LCM. Drill ahead with partial return to 729.0 - 14m inside Fort Simpson Formation. POOH. Safety meeting. Run in hole with open ended drill pipe. RIH to bottom. Circulate out LCM till lost circulation. Safety meeting with Sangel. Set plug between 729.0m to 539.0m. POOH to 10 stands. Circulate and clean out cementing string. RIH and tag cement top at 538.0m
Feb 3, 07	729.00	0.00	0.00	0.0	Circulation and clean up string after POOH 10 stands of DP. Trip in and tag cement top at 593.0m. Drill out cement from 593m to 612m. Lost circulation. Mix and pump LCM. Drill ahead cement plug with partial recovery to 729.0m. Maximum 352 units gas recorded during cement drilling. Circulate out to clean the hole. RIH with open ended drill pipe with periodical flow check. Circulate out LCM with water. Pre-job safety meeting with Sangel. Set Cement Plug# 2 between 729.0m to 523.0m. POOH 13 stands. Circulate to clean out the string - no cement return. RIH to tag cement top.

Daily Drilling Summary

Storage Units:

Metric

Date	Depth	Progress	Rotating Hours	Avg. P.R.	Daily Operational Summary
Feb 4, 07	758.00	29.00	1.20	24.2	RIH and tag cement top at 572.0m. POOH. Lay down cementing string. Pick up drilling BHA. RIH. Flow check at 430.0m & 572.0m - static. Drill out cement from 572.0m to 720.0m. 640units TG recorded at 572.0m while maximum 452units gas recorded during cement drilling. Lost circulation encountered at 719.0m. Mix & pump LCM pill. Drill out cement from 720.0m to 729.0m. Drilled down to 758.0m with partial loss. Ditch cuttings by passed shaker screen as to save LCM materials. Circulation & mud conditioning. POOH. RIH with open ended drill pipe. Circulate out LCM material. Safety meeting with Sangel. Set Cement Plug# 3.
Feb 5, 07	758.00	0.00	0.00	0.0	Set Cement Plug# 3 between 758m to 567m. POOH 12 stands. Squeeze job. 1.3m3 cement slurry was squeezed at 50 lit/min with maximum 2mPa pressure. WOC. RIH. Feel cement at 618m. Safety meeting with Sangel. Set Cement Plug# 4 between the intervals 618m to 534m. POOH six stands to 487m. Squeeze 1.2m3 cement slurry at 50 lit/min with maximum 3mPa pressures. WOC. POOH 13 stands and lay down by singles. Safety meeting. RIH with the Bit# 3 and BHA. Flow check at 430m - static. Tag cement top at 566m. Drill out cement from 566m to 758m. TG at 566m was 612units while maximum 359 units gas recorded during cement drilling.
Feb 6, 07	930.00	172.00	8.50	20.2	Resume drilling from 758.0m to 846.0m. Conduct deviation survey at 785.55m. Lost circulation - mix and pump LCM pills. Ditch cuttings by passed shale shaker's screen. Drilling continued with partial loss and low pressure to 895.0m. Normal drilling from 895.0m to 914.0m. Jets plugged. POOH. Flow check at 910.0m, 865.0m, 430.0m and 0m. RIH. TG at 914.0m is 387/56 units. Resume drilling to 930.0m. Drilling continued.
Feb 7, 07	1,072.00	142.00	19.00	7.5	Continue drilling with partial mud loss from 930.0m to 1072.0m. Conduct periodical surveys. Returns were by passed shaker's screen as to save LCM pills. Drilling continued.
Feb 8, 07	1,117.00	45.00	2.00	22.5	Continue drilling 200mm hole from 1062m to 1117m. Mix LCM plug and displace down the hole and drill the hole - drilling continued with partial return. Survey at 1085m. Returns were by passed shaker's screen as to accumulate LCM pills. Drilling continued.

Daily Drilling Summary

Storage Units:

Metric

Date	Depth	Progress	Rotating Hours	Avg. P.R.	Daily Operational Summary
Feb 9, 07	1,117.00	0.00	0.00	0.0	POOH to 588m. Mix LCM slug and displace down the hole. Restored circulation partially. RIH to 700m. Mix LCM slug and pump down the hole. No return. Mix and pump thicker LCM pill down the hole - partial return. RIH to 900m. Mix and displace thicker LCM slug down the hole - partial return. RIH to 1100m. Ream down to 1117.0m with partial return. Well control continued with close observation.
Feb 10, 07	1,147.00	30.00	5.70	5.3	Ream down from 1100m to 1117m. Drilling from 1117m to 1122m. Returns by passed shaker's screen due to mud loss. Bit balled. POOH. Lay down bit and pick a new 200mm, Varel, MKS 55 bit. Set a new pre-mix tank with the mud system. Mix and prepare mud to drill ahead. Drill down to 1147.0m. Mix and prepare new mud with LCM pill.
Feb 11, 07	1,332.00	185.00	7.20	25.7	Mix and prepare new mud with LCM pill to drill ahead. Drilling of 200mm hole from 1147.0m to 1332.0m with partial returns. New mud was prepared with LCM pill every after 5 joints of drilling i.e. mud 20m3 in every five joints of drilling. Conduct periodical surveys. Continue drilling.
Feb 12, 07	1,406.00	74.00	6.00	12.3	Continue drilling from 1332.0m to 1389.0m. Clean up flow line, pumps and Kelly. Mix and prepare new mud with LCM pill to drill ahead. Resume drilling from 1389.0m to 1406.0m. Lost circulation encountered at 1395.0m. POOH for coring continued.
Feb 13, 07	1,413.40	7.40	4.20	1.8	POOH. Pre-job safety meeting. Lay down bit and pick up core bit and BHA. Flow check at 430.0m. Break circulation. RIH to 1406.0m with intermittent break circulation to condition mud. TG at 1406.0m is 668/84 units. Mud conditioning at 1406.0m. Coring from 1406.0m to 1413.40m. Core barrel jammed. Circulation and mud conditioning. POOH. Lay down core bit. Recover cores.
Feb 14, 07	1,425.00	11.60	6.50	1.8	Retrieve core and reset coring tools. Safety meeting with core hands. Slip and cut drill line. RIH with a new core bit, BHC, ARC 327 and coring BHA. Flow check at 430.0m, 703.0m, 1406.0m - static. Wash down to bottom. Resume coring from 1413.4m to 1425.0m. POOH to retrieve core. Flow check at 1425.0m, 1354.0m, 712.0m, 430.0m and 0m - static. Lay down core barrel and recover core. RIH with bit No. 4RR1 on drilling BHA.

Daily Drilling Summary

Storage Units:

Metric

Date	Depth	Progress	Rotating Hours	Avg. P.R.	Daily Operational Summary
Feb 15, 07	1,449.00	24.00	9.20	2.6	RIH with bit No. 4RR1 on drilling BHA. Flow check at 430m, 703m and 830m - static. Break circulation at 1425.0m. Trip gas recorded 382/34 units. Reaming the cored section from 1406.0m to 1425.0m. Resume drilling 200mm hole from 1425.0m to 1449.0m. Survey at 1449.0m. Circulate and condition mud to MW: 1060kg/m3 and FV to 95sec. POOH for logging. Flow check at 1425m, 703m, 430m and 0m - static. Safety meeting. Rig up Weatherford logging tools and equipments. Logging.
Feb 16, 07	1,449.00	0.00	0.00	0.0	Logging. One Run with - MAI/MSS/MPD/MDN/MGS/MML/MTC/MCG tools. RIH with rock bit. Flow check at 430m and 724m - partial loss. TG at 1449.8m is 289/34 units. POOH and lay down drilling strings. Safety meeting with Tong hand crews. Rig up casing equipments and tools. RIH of 139.7mm production casings. Set the ECP (external casing packer) at 568.64m RKB. Set the casing shoe at 1449.5m. Circulate and condition mud through the casings string.
Feb 17, 07	1,449.00	0.00	0.00	0.0	RIH production casings. RIH 109 joints of 139.7mm; 23.07kg/m; IPSCO; J-55 casings. The ECL is set at 566.0m RKB. Circulation through production string - partial returns. TG gas 194/34 units. Safety meeting with the Sanjel cementing hands. Cement job was completed in two stages. Cement slurry from 2 tones THXLITE + 1% SMS was pumped as the lead slurry followed by cement slurry from 13 tones Expandomix LWL + 1% CFL + 2% LTR + 2% SPC-II as tail slurry. Plugged down at 11:14hrs. 2m3 scavenger cement slurry was received on surface. WOC. Nipple down BOP stacks. Rig down - tear down rig. Rig move.

Casing Data Summary

Storage Units:

Metric

Casing Type: Surface

Casing Size:	219.1	Hole Size:	311.0
Casing Landed @:	430.00	Total Joints:	32
Casing Date:	Jan 30, 2007 @ 13:30	Plug Down Date:	Jan 30, 2007 @ 20:15

of Joints / Length / O.D. / Weight: 32 joints; 431.11m; 219.1mm; 35.72kg/m; IPSCO; J-55 types.

Cementing Details: Cement job was completed in two stages. Cement slurry from 2 tones THXLITE + 1% SMS was pumped as the lead slurry followed by cement slurry from 13 tones Expandomix LWL + 1% CFL + 2% LTR + 2% SPC-II as tail slurry. Plugged down at 11:14hrs. 2m3 scavenge

Remarks: The casings were pulled out from 65.0m and 81.0m respectively as could not pass through. Tight spots were cleaned of with reaming.

Casing Type: Production

Casing Size:	139.7	Hole Size:	200.0
Casing Landed @:	1,449.00	Total Joints:	109
Casing Date:	Feb 16, 2007 @ 06:45	Plug Down Date:	Feb 16, 2007 @ 11:14

of Joints / Length / O.D. / Weight: 109 joints; 1450.48m; 139.7mm; 23.07kg/m; IPSCO; J-55.

Cementing Details: Two stages cement jobs with packer set at 566.0m RKB. Lead Slurry: cement slurry from 2 tonnes laed THXLITE + 1% SMS followed by tail slurry of 13 tonnes Expandomix LWL + 1% CFL + 2% LTR + 2% SPC-II. Plug down at 11:14hrs with 2m3scavanger cement.

Remarks: Considerable amount of mud loss was recorded during circulation through the casing string.

Bit Record Table (IADC Grading System)

Storage Units: Metric

**** For more detailed Bit Information refer to Bit Record ****

Bit #	Make	Type	Size	Depth In	Depth Out	Made	Hours	Avg. P.R.	I.A.D.C. Bit Condition								
									I	O	MDC	Loc	B	G	ODC	RP1	RP2
1A	Varel	CH04JM	311.0	0.0	430.0	430.0	34.75	12.4	2	2	CT	A	E	I	BT	TD	TD
3	Varel	MKS 65	200.0	430.0	1,122.0	692.0	52.50	13.2	0	0	WT	A	X	I	CT	HP	HP
4	Varel	MKS55	200.0	1,122.0	1,406.0	284.0	19.75	14.4									
C Bit -	BHC	BHC 40	171.0	1,406.0	1,413.0	7.0	4.00	1.8	0	0	BC	N	X	I	WT	PR	PR
C Bit -	BHC	ARC 32	171.0	1,413.4	1,425.0	11.6	6.50	1.8	0	0	NO	A	X	I	NO	FM	FM
4RR1	Varel	MKS55	200.0	1,425.0	1,449.0	24.0	9.25	2.6									

Total Rotating Hours: 126.75

Core Report

Storage Units: Metric

Date: February 12, 2007
Core #: 1
Formations Cored: Sulphur Point Dol.

Cored Interval

From: 1,406.00 To: 1,413.40
Cut: 7.40 Recovered: 7.63 103.11 %
Core Diameter: 102.0

Coring Company: Baker Hughes.
Service Representative: K.S. Ciurysek

Core Bit Information Bit Make: BHC Bit Type: BHC 406
 Bit Size (OD): 171.0 Serial #: 7302765
 Original Hole Size: 200.0

Remarks: The core barrel got jammed after coring to 1413.46m. Core interval: 1406.0m to 1413.46m. Recovery: 102.2%

Detailed Core Descriptions

Sulphur Pt Dol: 1,407.20 MD, 1,407.20 TVD, -638.00 SSL

1,406.00 to 1,407.30
(1.30)

Limestone

tan to brownish gray, compact, very dense argillaceous limestone with patchy white to off white anhydrite and calcite strips intercalated with medium brownish limy shale laminae. Dip angle 25-15. Wash out by mud on surface insuring hardness of the interval. None to very tight intercrystalline porosity on the upper section which increases to vuggy at the lower part. Traces to 5% of bright yellow orange oil staining at the lower section, brownish yellow direct fluorescence, faint intensity slow milky white streaming cut, thin pale white residual ring fluorescence, poor show.

1,407.30 to 1,410.60
(3.30)

Dolomite

dolomitic limestone is isolated with dark gray, grey black, firm, compact, dense, subfissile, subplaty, limy shale, micromicaceous common microlaminated with biotitic mica plates. They predominantly of chalky mudstone texture with traces dark brown carbonaceous fossil debris and in part silty. Medium brown, tan, mottled, compact and dense dolomite underlying the limy shale sequence are porous (5% to 14% at places) masked by even brownish yellow to golden yellow oil staining, 20% to 100% white, brownish yellow and yellow gold direct fluorescence, moderate intensity, fast to instantaneous white streaming and blooming cut fluorescence, thin pale brown oil residue, thick white residual ring fluorescence, poor to excellent show.

1,410.60 to 1,411.75
(1.15)

Dolomite

spotted with dirty white to tan dolomitic limestone with some patchy shale stringers intercalated with laminae of calcite and anhydrite which has limited the permeability. Porosity in this interval varies from 5% to maximum 10%. This section is masked by 80% patchy oil staining, bright yellow to creamy white, beige direct natural fluorescence, slow to flash white streaming cut fluorescence on 30% of sample, white thin residual ring, thin pale brown oil residue, good show.

1,411.75 to 1,413.40
(1.65)

Dolomite

The lower section is fractured with maximum 30 to 40 dip which could lead to jam the continuous coring. The dense tan, mottled, brownish dolomite section intercalated with brownish gray limy shale appears as patchy lenses rare with anhydrite inclusion. Calcite stringers are common. This section grading to dolomitic limestone with some stains of white chalky limestone. Porosity varies from 6% to 10%. This section is masked with 60% to 100% natural oil staining, weak to strong brownish yellow fluorescence, immediate to slow streaming yellow-white fluorescent cut, good pale yellow fluorescent cut residue, light tan visible cut residue, poor to excellent show show.

Core Report

Storage Units: Metric

Date: February 13, 2007
Core #: 2
Formations Cored: Sulphur Point & Muskeg

Cored Interval

From: 1,413.40 To: 1,425.00
Cut: 11.60 Recovered: 11.60 100.00 %
Core Diameter: 102.0

Coring Company: Baker Hughes Inteq.
Service Representative: K.S.Ciurysek

Core Bit Information Bit Make: BHC Bit Type: ARC 327
 Bit Size (OD): 171.0 Serial #: 61414
 Original Hole Size: 200.0

Remarks: Cored Interval: 1413.4m to 1425.0m. Coring was suspended due to slow ROP - 0.3m/hr.

Detailed Core Descriptions

1,413.40 to 1,413.80 (0.40)	Shale dark gray, grey black, firm, compact, dense, subfissile, subplaty, noncalcareous, micromicaceous with traces dark brown carbonaceous debris, in part silty limy shale. Partly washed out grading to lumpy limy mudstone, slightly to highly calcareous, off white to white stains of limestone inclusion.
1,413.80 to 1,414.80 (1.00)	Dolomite tan to brownish gray, compact, very dense dolomite mottled and light to medium brown and occasionally dark brown, firm crumbly to moderately hard, speckled with patchy white to off white anhydrite and anhedral to subhedral calcite strips, rare dark black bituminous (?) oil staining, occasionally spotty and grainy, intercalated with medium brownish patchy limy shale strips and black to brownish black minerals stains. Dip angle 10-17. Porosity 6-12%. Even oil show, masked tan oil stain, 100% golden yellow fluorescence, immediate to slow streaming pale yellow fluorescent cut, good yellow fluorescent cut residue, dark tan visible cut residue. Excellent show
1,414.80 to 1,415.80 (1.00)	Shale tan to brownish gray compact, dense dolomite intercalated often, fractured and overlain of clayey micromicaceous limy shale. Spotty anhydrites with calcite bands are common. Spotty light tan to tan oil stain, 10%-40% scattered golden yellow fluorescence, moderate to slow streaming pale yellow fluorescent cut, very good yellow fluorescent cut residue, dark tan visible cut residue, poor to fair show.
1,415.80 to 1,416.50 (0.70)	Dolomite mottled, tan, brownish gray crumbly to moderately hard dolomite, partly grainy, wackestone to packstone texture, 5% to 9% scattered porosity varying between 10-12 dip angle are masked with even oil stain, fair to good oil show, 80% golden yellow fluorescence, fast to slow streaming pale yellow fluorescent cut, good yellow fluorescent cut residue, tan visible cut residue.

1,416.50 to 1,418.40
(1.90)

Dolomite

dolomite of brownish gray, tan and mottle with limestone grains are alternately intercalated with limy shale leading to vuggy porosity. 10 to 25% of bright yellow orange oil staining increasing to the lower section, brownish yellow direct natural sample fluorescence, faint intensity slow milky white streaming cut, thin pale white residual ring fluorescence, poor show.

1,418.40 to 1,422.90
(4.50)

Dolomite

medium brown, off white to light gray, mottled and commonly tan aphanites to rare finely crystalline, relict wackestone with packstone texture visible when partially dolomitize, calcite and anhydrite inclusion. Black dead oil (?) stain with brownish black to black or bituminous partings. Possessing scattered porosity between 4% to 8% changing its depositional facies with variation of dip angle between 12-17. Masked with traces to maximum 60% patchy oil show to brownish yellow to golden yellow oil staining, golden white, brownish yellow and yellow gold direct fluorescence, moderate intensity, fast to slow white streaming and blooming cut fluorescence, thin pale brown oil residue, thick white residual ring fluorescence, poor to good show.

1,422.90 to 1,423.80
(0.90)

Shale

dark gray, grayish, firm, compact, dense, subfissile, subplaty, noncalcareous, micromicaceous common traces dark brown carbonaceous debris, in part silty, shale underlying the Muskeg formation separated the Sulphur Point with unconformably fractured with micropyrritic shale sequence. Speckled with white dolomitic limestone and stained of anhydrite, calcite and black to brownish black minerals. Presence of anhydrite and dolomitic inclusion increases to lower part. Microlaminations are noticed with the change of facies.

Muskeg: 1,423.80 MD, 1,423.80 TVD, -654.60 SSL

1,423.80 to 1,425.00
(1.20)

Anhydrite

white, off white, light brown, light gray, white, interbedded with dolomite, interbedded with limestone with patchy faint oil stain and black bituminous(?) and black minerals, moderately hard, very hard in parts, blocky, cryptocrystalline to micro crystalline, grading to thromb stone debris.

Wireline Logging Summary

Storage Units:

Metric

Logging Suite Number: 1
Wireline Logging Company: Weatherford Logging Services. Engineer: G. Singer
District: GPR Unit Number: 13124
Witness: Azim Ahmed

Was Pressure Control Equipment Utilized: No Maximum Deviation: 2.700 °
Was the Logging Job Mechanically Assisted: No Hole Size: 200.0

Total Lost Time: 0.00
Loggers' Total Down Time: 0.00
Total Job Time (From Rig up to Rig down): 6.50

	Measured Depth	True Vertical Depth
Casing Depth Driller	430.00	430.00
Casing Depth Logger	430.80	430.80
Total Depth Driller (Tally)	1,449.00	1,449.00
Total Depth Driller (Strap or SLM)		

General Remarks: Logging was completed in one run.

Logging Run #: 1
Date: Feb 14, 2007

Drilling Fluid Data

Drilling Fluid Type: Gel Chem.
Fluid Density: 1060.0 Viscosity: 93 pH: 11.0 Fluid Loss: 11.0

Mud Resistivity (Rm): 1.18 @ 25.0 °
Mud Resistivity (Rm) @ BHT: 0.78 @ 48.0 ° Maximum Temperature: 48.0 °
Mud Filtrate Resistivity (Rmf): 1.04 @ 25.0 ° Source (Rmf): Press
Mud Cake Resistivity (Rmc): 1.32 @ 25.0 ° Source (Rmc): Filter

Logging Run Information

Date on Bottom: Feb 15, 2007
Total Depth Logger: 1,449.50 (MD) 1,449.50 (TVD)

Logging Tools: MAI/MSS/MPD/MDN/MML/ISC/MGS/MTC/MFE/MCG tools; 430.0m to 1449.5m RKB.

Remarks: # The well is drilled as a vertical one. and all depth are measured from RKB.
The well is drilled by Precision Drilling Rig# 129.
Paramount AFE# 07N710028.
Logging was completed by Weatherford.
139.7mm production casings were run in.

Hole Conditions: Encountered total mudloss at 676.0m RKB. Drilling was completed with partial returns adding LCM pills and Gel in mud continuously. Mudloss was limited during coring.

Deviation Survey Points

Storage Units: Metric

Survey Type: magnetic / single shot

Measured Depth	Drift Angle (°)	TVD	Measured Depth	Drift Angle (°)	TVD
31.95	0.500	31.95			
59.08	0.250	59.08			
92.08	0.750	92.08			
119.80	0.750	119.80			
147.79	0.400	147.79			
175.57	0.750	175.57			
204.03	1.250	204.03			
232.62	0.750	232.62			
261.17	0.500	261.17			
290.73	0.250	290.73			
319.85	0.750	319.85			
349.04	0.750	349.04			
378.17	1.250	378.17			
407.07	1.000	407.07			
430.00	0.750	430.00			
505.00	1.000	505.00			
641.83	1.250	641.83			
785.55	1.000	785.55			
952.00	2.000	952.00			
991.00	1.500	991.00			
1,040.00	2.750	1,040.00			
1,085.00	2.500	1,085.00			
1,137.00	2.000	1,137.00			
1,449.00	1.000	1,449.00			

Drilling Fluid Summary

Storage Units:

Metric

Drilling Fluid Type:	Gel Chem	From:	0	To:	430
Drilling Fluid Type:	Flock Water	From:	430	To:	850
Drilling Fluid Type:	Gel Chem	From:	850	To:	1,449

Work Schedule

Storage Units:

Metric

Company: Khan Petroleum Ltd.
Geologist: Azim Ahmed

Work Performed	From: Jan 24, 2007	To: Feb 16, 2007
Depths Logged	From: 1,280.0	To: 1,449.0

Remarks: Rig moved from Bitscho 2-11 to J-04 on Jan 24-25, 2007.

Formation Top Summary

Storage Units:

Metric

Kelly Bushing Elevation:
Ground Elevation:

769.20
765.20

Casing Flange Elevation:

4.00

**** All Depths measured from Kelly Bushing Elevation ****

Group Formation Member	Prognosis (TVD)	Sample Top (MD)	Sample Top (TVD)	Log Top (MD)	Log Top (TVD)	Subsea	Thickness
Wabamun	549.20	550.00	550.00	551.00	551.00	218.20	170.00
Fort Simpson	721.20	717.00	717.00	717.50	717.50	51.70	563.00
Sample Point	1,280.00	1,280.00	1,280.00			-510.80	
BhL	1,314.10	1,319.50	1,319.50	1,319.70	1,319.70	-550.50	22.50
Slave Point	1,339.00	1,342.00	1,342.00	1,342.80	1,342.80	-573.60	41.50
F4	1,381.10	1,383.50	1,383.50	1,383.70	1,383.70	-614.50	6.00
Watt Mountain	1,388.50	1,389.50	1,389.50	1,389.00	1,389.00	-619.80	8.00
Sulphur Pt Ls	1,398.10	1,396.50	1,396.50	1,394.00	1,394.00	-624.80	10.70
Sulphur Pt Dol	1,405.80	1,407.20	1,407.20	1,406.70	1,406.70	-637.50	16.60
Muskeg	1,426.00	1,423.80	1,423.80	1,424.00	1,424.00	-654.80	25.20
Total Depth	1,449.20	1,449.00	1,449.00	1,449.80	1,449.80	-680.60	

Sample Point: 1,280.00 MD, 1,280.00 TVD, -510.80 SSL

1,280.00 to 1,285.00 (5.00)	80% Shale medium gray, gray, greenish gray, firm, friable, partly moderately hard to hard, splintery to blocky, micromicaceous, dull earthy texture, mud stone inclusion, smooth to waxy texture in parts, fissile to subfissile, partly platy, carbonaceous, traces of granular pyrite, abundant of gray to tan limestone inclusion, abundant of dark brown to black minerals, rare silty, very calcareous to shally limestone.
	20% Limestone off white, light brown, brownish gray, mottled, in part chalky, firm to crumpled, rare moderately hard, blocky to subblocky, smooth to gritty, partly grainy, cryptocrystalline to microcrystalline debris, predominately mudstone, rare wackestone, calcarenite, commonly dolomitic & locally grading to dolomitic limestone, traces of calcite inclusions, abundant of shale fragments, local disseminated pyrite, poor intercrystalline visible porosity, no shows.
1,285.00 to 1,290.00 (5.00)	70% Shale medium gray, gray, greenish gray, firm, friable, partly moderately hard to hard, splintery to blocky, micromicaceous, dull earthy texture, mud stone inclusion, smooth to waxy texture in parts, fissile to subfissile, partly platy, carbonaceous, traces of granular pyrite, abundant of gray to tan limestone inclusion, abundant of dark brown to black minerals, traces of loose coarse quartz grains, rare silty, very calcareous to shally limestone.
	30% Limestone off white, light brown, brownish gray, mottled, in part chalky, firm to crumpled, rare moderately hard, blocky to subblocky, smooth to gritty, partly grainy, cryptocrystalline to microcrystalline debris, predominately mudstone, rare wackestone, calcarenite, commonly dolomitic & locally grading to dolomitic limestone, traces of calcite inclusions, abundant of shale fragments, local disseminated pyrite, poor intercrystalline visible porosity, no shows.
1,290.00 to 1,295.00 (5.00)	60% Limestone off white, light brown, brownish gray, mottled, tan, in part chalky, firm to crumpled, rare moderately hard, blocky to subblocky, smooth to gritty, partly grainy, cryptocrystalline to microcrystalline debris, predominately mudstone, rare wackestone, calcarenite, commonly dolomitic & locally grading to dolomitic limestone, traces of calcite inclusions, abundant of shale fragments, local disseminated pyrite, traces of loose coarse quartz grains, poor intercrystalline visible porosity, no shows.
	40% Shale medium gray, gray, greenish gray, firm, friable, partly moderately hard to hard, splintery to blocky, micromicaceous, dull earthy texture, mud stone inclusion, smooth to waxy texture in parts, fissile to subfissile, partly platy, carbonaceous, traces of granular pyrite, abundant of gray to tan limestone inclusion, abundant of dark brown to black minerals, traces of loose coarse quartz grains, rare silty, very calcareous to shally limestone.

Sample Descriptions

Storage Units: Metric

1,295.00 to 1,300.00 (5.00)	70% Shale medium gray, gray, greenish gray, firm, friable, partly moderately hard to hard, splintery to blocky, micromicaceous, dull earthy texture, mud stone inclusion, smooth to waxy texture in parts, fissile to subfissile, partly platy, carbonaceous, traces of granular pyrite, abundant of gray to tan limestone inclusion, abundant of dark brown to black minerals, traces of loose coarse quartz grains, rare silty, very calcareous to shally limestone.
	30% Limestone off white, light brown, brownish gray, mottled, tan, in part chalky, firm to crumpled, rare moderately hard, blocky to subblocky, smooth to gritty, partly grainy, cryptocrystalline to microcrystalline debris, predominately mudstone, rare wackestone, calcarenite, commonly dolomitic & locally grading to dolomitic limestone, traces of calcite inclusions, abundant of shale fragments, local disseminated pyrite, traces of loose coarse quartz grains, poor intercrystalline visible porosity, no shows.
1,300.00 to 1,305.00 (5.00)	70% Shale medium gray, gray, partly greenish gray, firm, friable, partly moderately hard to hard, splintery to blocky, micromicaceous, dull earthy texture, mud stone inclusion, smooth to waxy texture in parts, fissile to subfissile, partly platy, carbonaceous, traces of granular pyrite, abundant of gray to tan lumpy to blocky limestone, abundant of dark brown to black minerals, traces of loose coarse quartz grains, rare silty, very calcareous to shally limestone, rare dolomitic.
	30% Limestone off white, light brown, brownish gray, mottled, tan, in part chalky, firm to crumpled, rare moderately hard, blocky to subblocky, smooth to gritty, partly grainy, cryptocrystalline to microcrystalline debris, predominately mudstone, rare wackestone, calcarenite, commonly dolomitic & locally grading to dolomitic limestone, traces of calcite inclusions, abundant of shale fragments, local disseminated pyrite, traces of loose coarse quartz grains, poor intercrystalline visible porosity, no shows.
1,305.00 to 1,310.00 (5.00)	80% Shale medium gray, gray, partly greenish gray, firm, friable, partly moderately hard to hard, splintery to blocky, micromicaceous, dull earthy texture, mud stone inclusion, smooth to waxy texture in parts, fissile to subfissile, partly platy, carbonaceous, traces of granular pyrite, abundant of gray to tan lumpy to blocky limestone, abundant of dark brown to black minerals, traces of loose coarse quartz grains, rare silty, very calcareous to shally limestone, rare dolomitic.
	20% Limestone off white, light brown, brownish gray, mottled, tan, in part chalky, firm to crumpled, rare moderately hard, blocky to subblocky, smooth to gritty, partly grainy, cryptocrystalline to microcrystalline debris, predominately mudstone, rare wackestone, calcarenite, commonly dolomitic & locally grading to dolomitic limestone, traces of calcite inclusions, abundant of shale fragments, local disseminated pyrite, traces of loose coarse quartz grains, poor intercrystalline visible porosity, no shows.

Sample Descriptions

Storage Units: Metric

1,310.00 to 1,315.00 (5.00)	70% Shale blackish gray, gray, dark gray, firm, friable, moderately hard to hard, predominately blocky, smooth to gritty, commonly micromicaceous & limy, partly dull earthy texture, subfissile, partly platy, rare thinly laminated, occasionally silty, partly carbonaceous, traces of argillaceous dolomitic limestone, rare siltstone & sandstone stringers, slightly calcareous.
	30% Limestone off white, light brown, brownish gray, mottled, tan, in part chalky, firm to crumpled, rare moderately hard, blocky to subblocky, smooth to gritty, partly grainy, cryptocrystalline to microcrystalline debris, predominately mudstone, rare wackestone, calcarenite, commonly dolomitic & locally grading to dolomitic limestone, traces of calcite inclusions, abundant of shale fragments, local disseminated pyrite, traces of loose coarse quartz grains, poor intercrystalline visible porosity, no shows.
BhL: 1,319.50 MD, 1,319.50 TVD, -550.30 SSL	
1,315.00 to 1,320.00 (5.00)	80% Shale blackish gray, gray, dark gray, traces greenish gray, firm, friable, moderately hard to hard, predominately blocky, commonly micromicaceous & limy, partly dull earthy texture, partly smooth to gritty, partly subfissile, partly platy, rare thinly laminated, occasionally silty, partly carbonaceous, traces of argillaceous limestone, rare siltstone & sandstone stringers, calcareous.
	20% Limestone off white, light brown, brownish gray, mottled, tan, in part chalky, firm to crumpled, rare moderately hard, blocky to subblocky, smooth to gritty, partly grainy, cryptocrystalline to microcrystalline debris, predominately mudstone, rare wackestone, calcarenite, commonly dolomitic & locally grading to dolomitic limestone, traces of calcite inclusions, abundant of shale fragments, local disseminated pyrite, traces of loose coarse quartz grains, poor intercrystalline visible porosity, no shows.
1,320.00 to 1,325.00 (5.00)	50% Limestone off white, light brown, brownish gray, mottled, tan, in part chalky, firm to crumpled, rare moderately hard, blocky to subblocky, smooth to gritty, partly grainy, cryptocrystalline to microcrystalline debris, predominately mudstone, rare wackestone, calcarenite, commonly dolomitic & locally grading to dolomitic limestone, traces of calcite inclusions, traces bituminous in part (?), abundant of shale fragments, local disseminated pyrite, traces of loose coarse quartz grains, poor intercrystalline visible porosity, no shows.
	50% Shale blackish gray, gray, dark gray, traces greenish gray, soft to firm, friable, moderately hard to hard, sub blocky to blocky, commonly micromicaceous & limy, partly dull earthy texture, partly smooth to waxy, partly subfissile, partly platy, rare thinly laminated, partly clayey, occasionally silty, partly carbonaceous, traces of argillaceous limestone, traces bituminous in part (?), abundant of shale fragments, local disseminated pyrite, traces of loose coarse quartz grains with rare siltstone & sandstone stringers, calcareous.

Sample Descriptions

Storage Units: Metric

1,325.00 to 1,330.00 (5.00)	<p>70% Shale blackish gray, gray, dark gray, traces greenish gray, moderately hard to hard, partly friable, sub blocky to blocky, commonly micromicaceous & limy, partly dull earthy texture, partly smooth to waxy, partly subfissile, partly platy, rare thinly laminated, partly clayey, occasionally silty, partly carbonaceous, clayey in parts, traces of argillaceous limestone, traces bituminous in part (?), abundant of shale fragments, local disseminated pyrite, traces of loose coarse quartz grains with rare siltstone & sandstone stringers, calcareous. traces of siltstone and sandstone stringers, abundant of argillaceous limestone, calcareous.</p> <p>30% Limestone off white, light brown, brownish gray, mottled, tan, in part chalky, firm to crumpled, rare moderately hard, blocky to subblocky, smooth to gritty, partly grainy, cryptocrystalline to microcrystalline debris, predominately mudstone, rare wackestone, calcarenite, commonly dolomitic & locally grading to dolomitic limestone, traces of calcite inclusions, traces bituminous in part (?), abundant of shale fragments, local disseminated pyrite, traces of loose coarse quartz grains, poor intercrystalline visible porosity, no shows.</p>
1,330.00 to 1,335.00 (5.00)	<p>70% Shale gray, dark gray, brownish gray, occasionally greenish gray, moderately hard to hard, partly friable, sub blocky to blocky, smooth to gritty, commonly micromicaceous, partly limy, partly dull earthy texture, rare subfissile, partly platy & rare thinly laminated, occasionally silty, partly carbonaceous, traces of argillaceous limestone, traces of coarse quartz grain with some siltstone stringers, calcareous.</p> <p>30% Limestone off white, light brown, brownish gray, mottled, tan, in part chalky, firm to crumpled, rare moderately hard, blocky to subblocky, smooth to gritty, partly grainy, cryptocrystalline to microcrystalline debris, predominately mudstone, rare wackestone, calcarenite, commonly dolomitic & locally grading to dolomitic limestone, traces of calcite inclusions, traces bituminous in part (?), abundant of shale fragments, local disseminated pyrite, traces of loose coarse quartz grains, poor intercrystalline visible porosity, no shows.</p>
1,335.00 to 1,340.00 (5.00)	<p>80% Limestone white, off white, light brown, mottled, tan, creamy, dark brown, firm to crumpled to moderately hard, lumpy to blocky, partly subblocky, smooth to gritty, predominately microcrystalline to crystalline debris, predominately wackestone to mudstone, locally dolomitic, intraclasts & occasionally bioclastic debris, commonly loose grains to predominately peloids, calcarenite, traces of fine crystalline dolomite, traces of coarse quartz grain, fair visible intracrystalline porosity, no show.</p> <p>20% Shale gray, dark gray, brownish gray, occasionally greenish gray, moderately hard to hard, partly friable, sub blocky to blocky, smooth to gritty, commonly micromicaceous, partly limy, partly dull earthy texture, rare subfissile, partly platy, rare thinly laminated, occasionally silty, partly carbonaceous, traces of argillaceous limestone, traces of granular pyrite, calcareous.</p>

Sample Descriptions

Storage Units: Metric

Slave Point: 1,342.00 MD, 1,342.00 TVD, -572.80 SSL

1,340.00 to 1,345.00 (5.00)	100%Limestone white, off white, light brown, mottled, tan, creamy, dark brown, firm to crumpled to moderately hard, lumpy to blocky, partly subblocky, smooth to gritty, predominately microcrystalline to crystalline debris, predominately wackestone to mudstone, locally dolomitic, intraclasts & occasionally bioclastic debris, commonly loose grains to predominately peloids, calcarenite, traces of fine crystalline dolomite, traces of coarse quartz grain, dense with trace poor intracrystalline porosity, rare traces of light brown oil show to very weak odour, no visible staining, light pale yellow sample fluorescence, faint cut, no residual ring fluorescence, poor show.
1,345.00 to 1,350.00 (5.00)	100%Limestone brown, greenish brown, tan, dark brown, partly light yellow with dark brown stain, friable to crumpled to moderately hard, blocky to subblocky, smooth to gritty, predominately microcrystalline to very fine crystalline debris, partly cryptocrystalline, predominately wackestone, partly mudstone, intraclasts & occasionally bioclastic debris, calcarenite, partly argillaceous, traces of fine crystalline dolomite, rare siltstone stringer, traces of greenish brown shale fragments, traces of nodular pyrite, poor to fair visible intracrystalline porosity, rare traces of light brown oil show to very weak odour, no visible staining, light pale yellow sample fluorescence, no cut, no residual ring fluorescence, poor show.
1,350.00 to 1,355.00 (5.00)	100%Limestone brown, greenish brown, tan, dark brown, partly light yellow with dark brown stain, rare creamy, friable to crumpled to moderately hard, blocky to subblocky, smooth to gritty, predominately microcrystalline to very fine crystalline debris, partly cryptocrystalline, predominately wackestone, partly mudstone, partly grainy, intraclasts & occasionally bioclastic debris, calcarenite, partly argillaceous, traces of fine crystalline dolomite, rare siltstone stringer inclusion, traces of greenish brown shale fragments, traces of disseminated granular pyrite, fair to good visible intracrystalline porosity, weak odor, traces of light brown oil show, no visible staining, light pale yellow sample fluorescence, very faint cut, no residual ring fluorescence, poor show.
1,355.00 to 1,360.00 (5.00)	100%Limestone predominately tan, brown, greenish brown, dark brown, partly light yellow with dark brown stain, rare creamy, friable to crumpled to moderately hard, blocky to subblocky, smooth to gritty, predominately microcrystalline to very fine crystalline debris, partly cryptocrystalline, predominately wackestone, partly mudstone, partly grainy, intraclasts & occasionally bioclastic debris, calcarenite, partly argillaceous, traces of fine crystalline dolomite, rare siltstone stringer inclusion, traces of greenish brown shale fragments, traces of disseminated granular pyrite, fair to good visible intracrystalline porosity, weak odor, traces of light brown oil show, no visible staining, light pale yellow sample fluorescence, very faint cut, no residual ring fluorescence, poor show.

Sample Descriptions

Storage Units: Metric

1,360.00 to 1,365.00 (5.00)	100%Limestone predominately brown, off white, greenish brown, light yellow with dark brown stain, occasionally tan, dark brown, firm, friable to crumpled to moderately hard, lumpy to blocky, predominately microcrystalline to very fine crystalline debris, partly cryptocrystalline, predominately wackestone, partly mudstone, intraclasts & occasionally bioclastic debris, calcarenite, partly argillaceous, traces of fine crystalline dolomite, rare siltstone stringer & greenish brown shale fragments inclusion, traces of loose coarse quartz grains, good visible intracrystalline porosity, weak odour, no visible staining, patchy golden white natural sample fluorescence, slow faint cut, pale yellowish brown residual ring fluorescence, good show.
1,365.00 to 1,370.00 (5.00)	100%Limestone predominately brown, off white, greenish brown, light yellow with dark brown stain, occasionally tan, dark brown, firm, friable to crumpled to moderately hard, lumpy to blocky, predominately microcrystalline to very fine crystalline debris, partly cryptocrystalline, predominately wackestone, partly mudstone, intraclasts & occasionally bioclastic debris, calcarenite, partly argillaceous, traces of fine crystalline dolomite, rare siltstone stringer & greenish brown shale fragments inclusion, traces of loose coarse quartz grains, good visible intracrystalline porosity, weak odour, no visible staining, patchy golden white natural sample fluorescence, slow faint cut, pale brownish yellow residual ring fluorescence, good show.
1,370.00 to 1,375.00 (5.00)	100%Limestone brown, off white, greenish brown, dark brown, light yellow with dark brown stain, tan, firm, friable to crumpled to moderately hard, lumpy to blocky, predominately microcrystalline to very fine crystalline debris, partly cryptocrystalline, predominately wackestone, partly mudstone, partly grainy, intraclasts & occasionally bioclastic debris, calcarenite, argillaceous in parts, traces of fine crystalline dolomite, rare siltstone stringer & greenish brown shale fragments inclusion, traces of loose coarse quartz grains, traces of bituminous (?) fragments, good visible intracrystalline porosity, weak odor, no visible staining, patchy golden white natural sample fluorescence, slow faint cut, pale brownish yellow residual ring fluorescence, good show.
1,375.00 to 1,380.00 (5.00)	100%Limestone brown, off white, greenish brown, dark brown, light yellow with dark brown stain, tan, firm, friable to crumpled to moderately hard, lumpy to blocky, predominately microcrystalline to very fine crystalline debris, partly cryptocrystalline, predominately wackestone, partly mudstone, partly grainy, intraclasts & occasionally bioclastic debris, calcarenite, argillaceous in parts, traces of fine crystalline dolomite, rare siltstone stringer & greenish brown shale fragments inclusion, traces of loose coarse quartz grains, good visible intracrystalline porosity, weak odour, no visible staining, traces of golden white natural sample fluorescence, slow faint cut, pale brownish yellow residual ring fluorescence, fair show.
	Shale gray, greenish gray, moderately hard to hard, partly friable, sub blocky to blocky, commonly micromicaceous, rare dull earthy texture, partly clayey & soft to firm, rare subfissile, partly platy, occasionally silty, partly carbonaceous, abundant crystalline limestone, traces of fine crystalline dolomite, traces of bituminous (?) fragments, non to slightly calcareous.

F4: 1,383.50 MD, 1,383.50 TVD, -614.30 SSL

1,380.00 to 1,385.00 100% Limestone

(5.00)

off white, mottled, light yellow with dark brown stain, light brown, dark brown, firm to crumpled to moderately hard, blocky to subblocky, smooth to gritty, predominately microcrystalline to crystalline debris, predominately wackestone to packstone, locally grading to dolomitic limestone, intraclasts & occasionally bioclastic debris, commonly loose grains to predominately peloids, calcarenite, traces of fine crystalline dolomite, traces of coarse quartz grain, traces of anhydrite inclusion, abundant of gray to greenish gray shale fragments, vuggy to fair visible intracrystalline porosity, very faint odour, no visible staining, traces of light brown oil show, light brownish yellow sample fluorescence, faint cut, no residual ring fluorescence, poor show.

Shale

gray, greenish gray, moderately hard to hard, partly friable, sub blocky to blocky, commonly micromicaceous, rare dull earthy texture, partly clayey & soft to firm, rare subfissile, partly platy, occasionally silty, partly carbonaceous, abundant crystalline limestone, traces of fine crystalline dolomite, traces of bituminous (?) fragments, traces of coarse quartz grain, traces of anhydrite inclusion, non to slightly calcareous.

Watt Mountain: 1,389.50 MD, 1,389.50 TVD, -620.30 SSL

1,385.00 to 1,390.00 80% Limestone

(5.00)

brown, light yellow with dark brown stain, occasionally tan, dark brown, firm, friable to crumpled to moderately hard, blocky to subblocky, smooth to gritty, predominately microcrystalline to very fine crystalline debris, partly cryptocrystalline, predominately wackestone, partly mudstone, partly argillaceous, traces of fine crystalline dolomite, traces of greenish brown shale fragments, abundant of anhydrite inclusion, loose coarse quartz grains, tight visible intracrystalline porosity, no shows.

20% Shale

gray, greenish gray, moderately hard to hard, partly friable, sub blocky to blocky, commonly micromicaceous, rare dull earthy texture, partly clayey & soft to firm, rare subfissile, partly platy, occasionally silty, partly carbonaceous, abundant crystalline limestone, traces of fine crystalline dolomite, non to slightly calcareous.

1,390.00 to 1,395.00 80% Limestone

(5.00)

brown, light yellow with dark brown stain, occasionally tan, dark brown, firm, friable to crumpled to moderately hard, blocky to subblocky, smooth to gritty, predominately microcrystalline to very fine crystalline debris, partly cryptocrystalline, predominately wackestone, partly mudstone, partly argillaceous, traces of fine crystalline dolomite, traces of greenish brown shale fragments, abundant of anhydrite inclusion, loose coarse quartz grains, tight visible intracrystalline porosity, no shows.

Sample Descriptions

Storage Units: Metric

1,390.00 to 1,395.00 (5.00)	20% Shale gray, greenish gray, green, moderately hard to hard, partly friable, sub blocky to blocky, smooth to gritty, commonly micromicaceous, rare dull earthy texture, rare subfissile, occasionally thinly laminated, occasionally silty, partly carbonaceous, abundant crystalline limestone, traces of fine crystalline dolomite, abundant of bituminous (?) fragments with dark brown to black minerals, traces of coarse quartz grain with granular pyrite, traces of anhydrite inclusion, calcareous.
1,425.00 to 1,430.00 (5.00)	80% Dolomite light brown, mottled, tan, off white, firm to crumpled to moderately hard, blocky to subblocky, smooth to gritty, partly earthy & chalky, ratty, predominately cryptocrystalline debris, predominately mudstone, partly wackestone, slightly argillaceous, abundant limestone & anhydrite inclusion, calcarenite, no visible intracrystalline porosity, no shows. 20% Anhydrite white, off white, light brown, light gray, white, interbedded with dolomite, interbedded with limestone with patchy faint oil stain and black bituminous(?) and black minerals, moderately hard, very hard in parts, blocky, cryptocrystalline to micro crystalline, grading to thromb stone debris.
1,430.00 to 1,435.00 (5.00)	70% Dolomite light brown, mottled, tan, off white, firm to crumpled to moderately hard, blocky to subblocky, smooth to gritty, partly earthy & chalky, ratty, predominately cryptocrystalline debris, predominately mudstone, partly wackestone, slightly argillaceous, abundant anhydrite inclusion with some limestone, calcarenite, no visible intracrystalline porosity, no shows. 30% Anhydrite white, off white, hyaline, tan, irregularly shaped, sharp, angular, abundant of calcite inclusion, traces of fine crystalline limestone with abundant of of brownish gray to tan dolomite inclusion, traces of greenish brown shale fragments, traces of carbonaceous material.
1,435.00 to 1,440.00 (5.00)	80% Dolomite light gray, light brown, mottled, tan, stony, creamy, reddish brown, firm to crumpled to moderately hard, blocky to subblocky, smooth to gritty, partly earthy & chalky, ratty, predominately cryptocrystalline debris, mudstone, partly packstone, slightly argillaceous, abundant limestone inclusion, locally grading to dolomitic limestone, calcarenite, fossiliferous, abundant of calcite and anhydrite inclusions, traces of bituminous partings with some black minerals, traces of shale grain, tight intracrystalline porosity, no shows. 20% Anhydrite white, off white, hyaline, tan, irregularly shaped, sharp, angular, abundant of calcite inclusion, atraces of fine crystalline limestone with abundant of of brownish gray to tan dolomite inclusion.
1,440.00 to 1,445.00 (5.00)	80% Dolomite light brown, mottled, tan, off white, firm to crumpled to moderately hard, blocky to subblocky, smooth to gritty, partly earthy & chalky, ratty, predominately cryptocrystalline debris, predominately mudstone, partly wackestone, slightly argillaceous, abundant limestone & anhydrite inclusion, calcarenite, no visible intracrystalline porosity, no shows.

Sample Descriptions

Storage Units: Metric

1,440.00 to 1,445.00 (5.00)	20% Anhydrite white, off white, hyaline, tan, irregularly shaped, sharp, angular, abundant of calcite inclusion, atraces of fine crystalline limestone with abundant of of brownish gray to tan dolomite inclusion.
1,445.00 to 1,449.00 (4.00)	60% Dolomite light brown, mottled, tan, off white, firm to crumpled to moderately hard, blocky to subblocky, smooth to gritty, partly earthy & chalky, ratty, predominately cryptocrystalline debris, predominately mudstone, partly wackestone, slightly argillaceous, abundant anhydrite inclusion with some limestone, calcarenite, no visible intracrystalline porosity, no shows. 40% Anhydrite white, off white, hyaline, tan, irregularly shaped, sharp, angular, abundant of calcite inclusion, traces of fine crystalline limestone with abundant of of brownish gray to tan dolomite inclusion, traces of greenish brown shale fragments, traces of carbonaceous material.

Well Information

Operator: Paramount Resources Ltd.
Well Name: Para Et Al Cameron J-04
Location: 300/J-04-60-10-117-30
UWI: 300J04601011730
Pool: Sulphur Point & Slave Point.
Field: Cameron Hills
Province / State: Northwest Territory
Country: Canada



Paramount
resources ltd.

Elevations

Reference: MSL **Ground:** 765.2 m
Cut(-) / Fill(+): -0 m **Kelly Bushing:** 769.2 m
K.B. to Ground: 4 m **Casing Flange:** 4 m

Total Depth

Measurement Type	Measured Depth	True Vertical Depth
Drillers TD (Tally)	1449 m	1449 m
Drillers TD (Strap or SLM)	1449 m	1449 m
Loggers TD	1449.5 m	1449.5 m

Surface Co - Ordinates

Well Type: Straight **Longitude:** 117°30'47.8" **Latitude:** 60°3'31.3"

N / S Co - Ordinates: _____

E / W Co - Ordinates: _____

Bottom Hole Co - Ordinates

Longitude: 117°30'47.8" **Latitude:** 60°3'31.3"

N / S Co - Ordinates: _____

E / W Co - Ordinates: _____

Drilling Fluid Summary

Fluid Type	From	To
Gel Chem	0 m	430 m
Flock Water	430 m	850 m
Gel Chem	850 m	1449 m

Casing Summary

Type	Hole Size	Casing Size	Landed At
Surface	311 mm	219.1 mm	430 m
Production	200 mm	139.7 mm	1449 m

Well Summary

Spud Date: Jan 26, 2007 @ 16:00hrs **Contractor:** Precision Rig# 129.

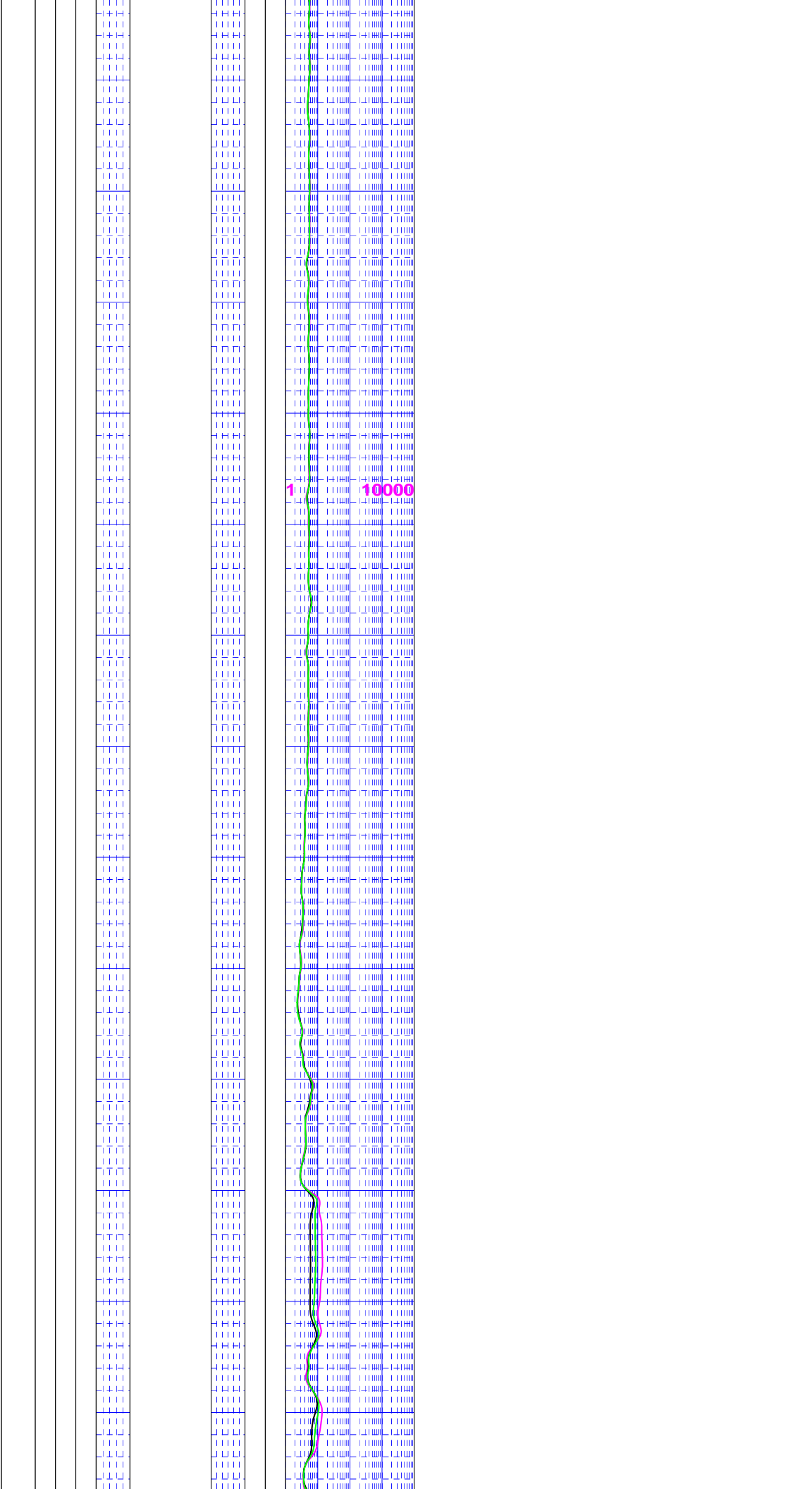
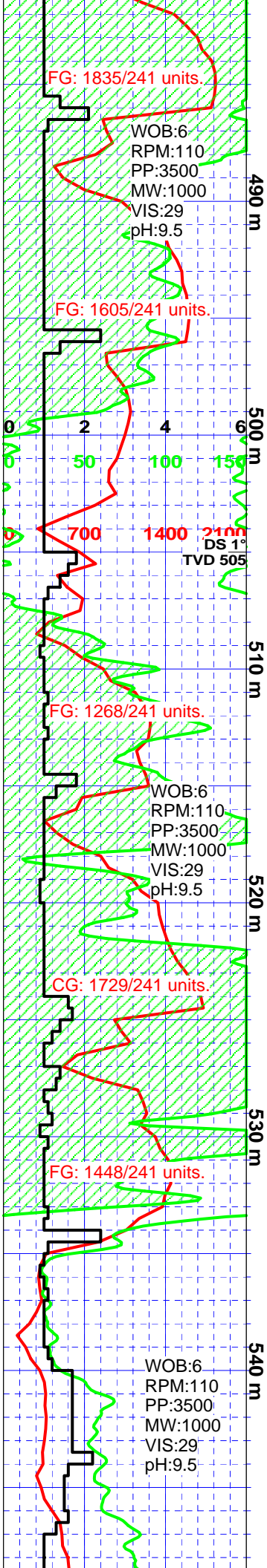
TD Date: Feb 15, 2007 **Rig Release Date:** Feb 16, 2007 @ 23:59hrs

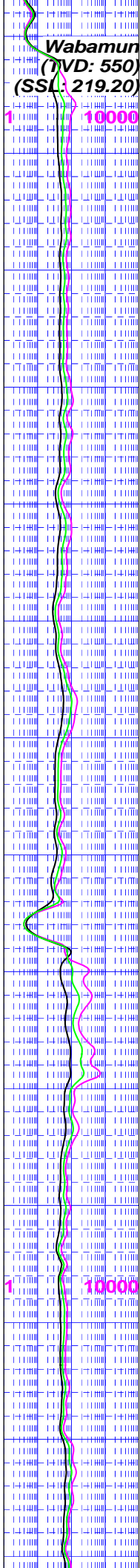
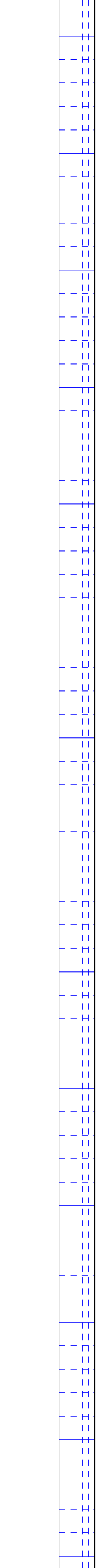
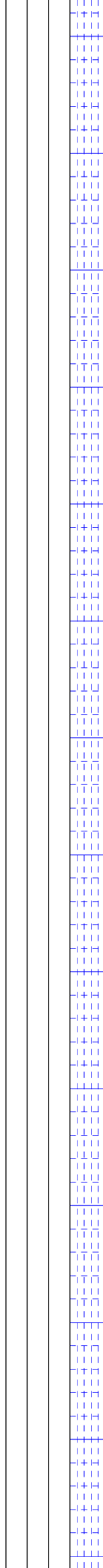
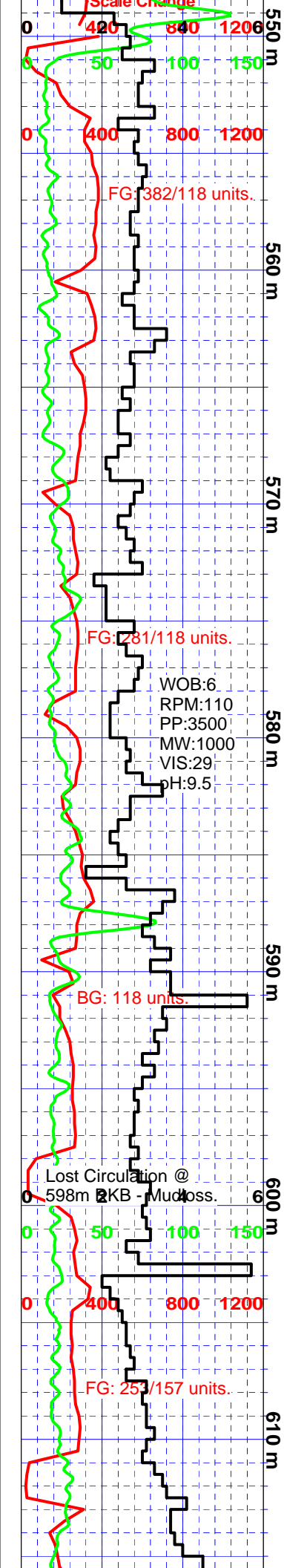
Work Schedule

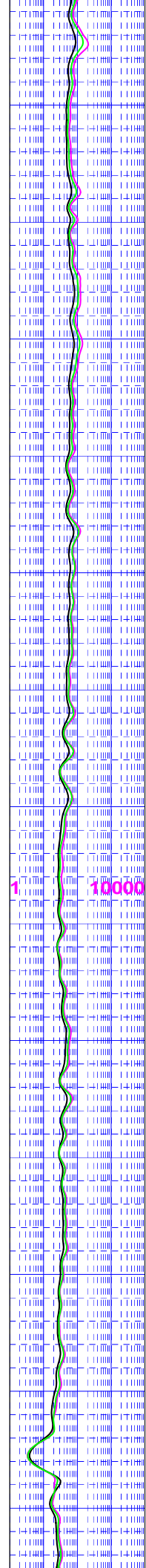
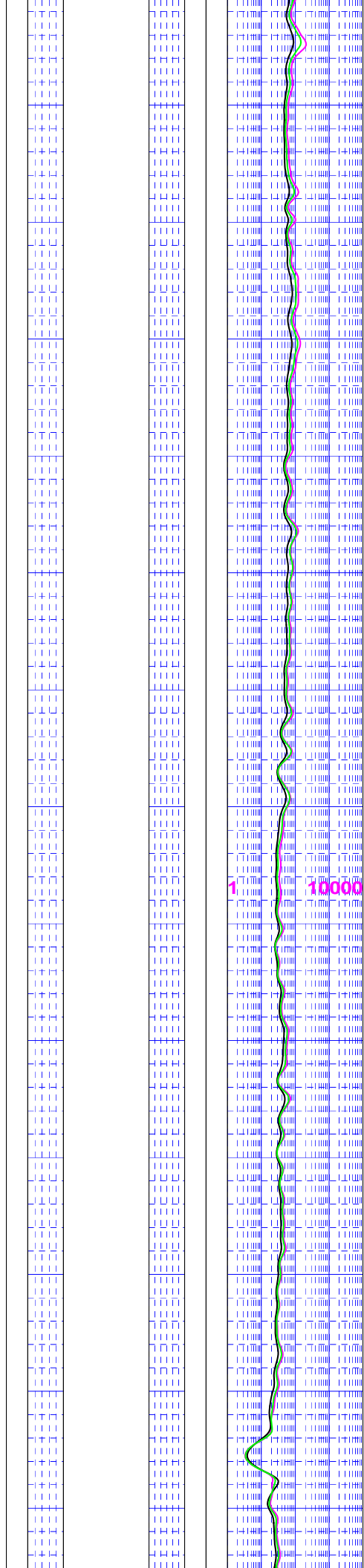
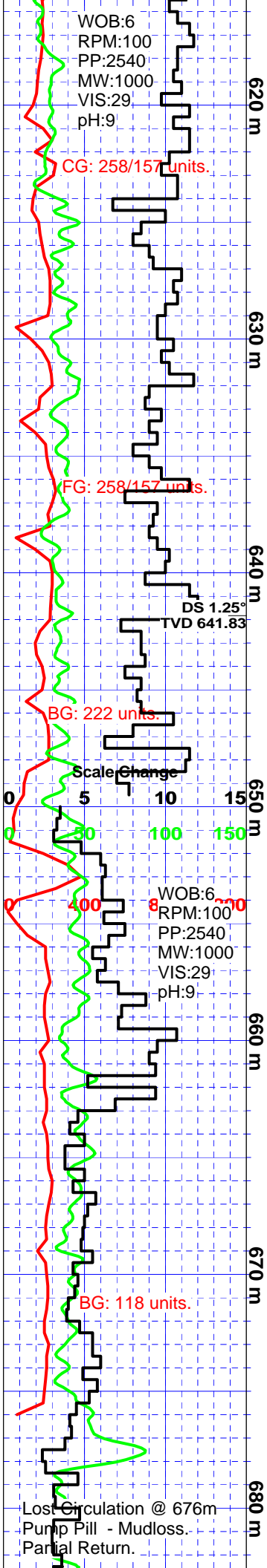
Contractor	Geologist	Log Interval	Dates Logged
Khan Petroleum Ltd.	Azim Ahmed	1280 m - 1449 m	Jan 24, 2007 - Feb 16, 2007

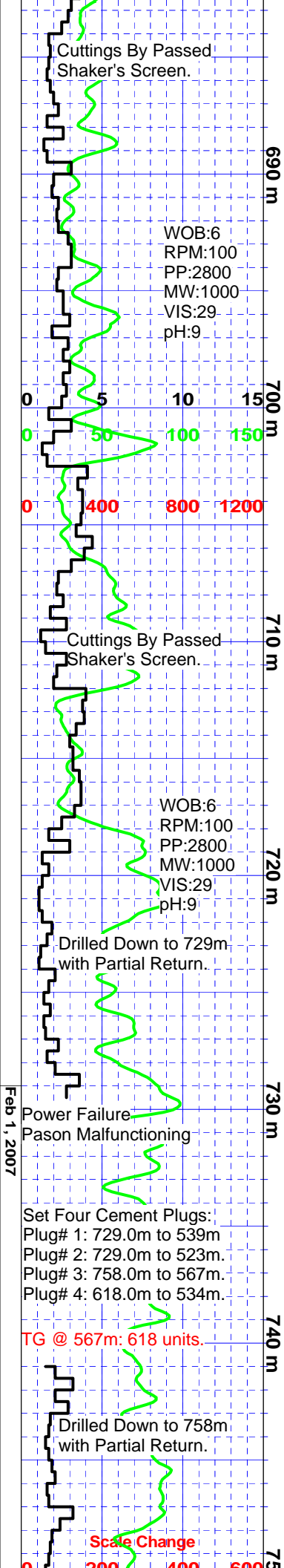
Remarks

Composite Striplog Presentation - Scales 1:240



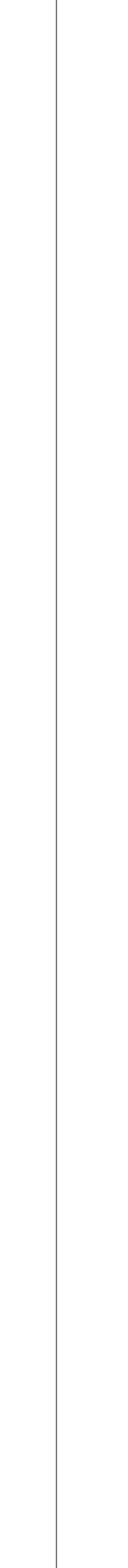
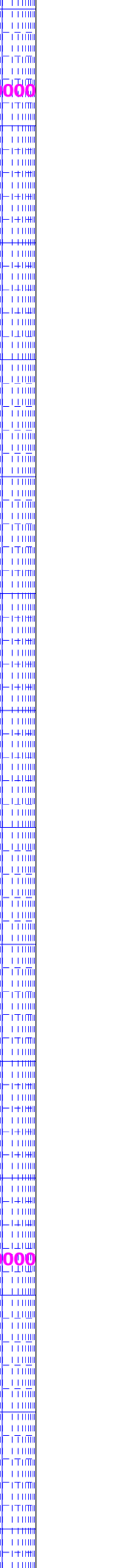
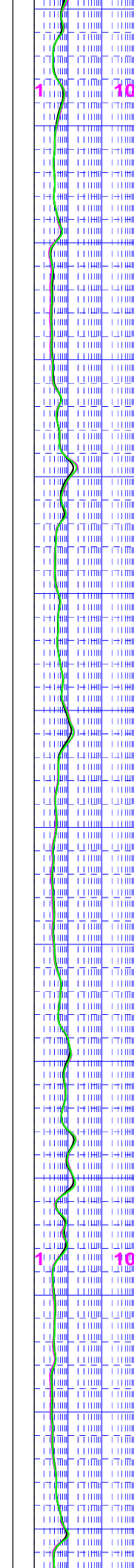
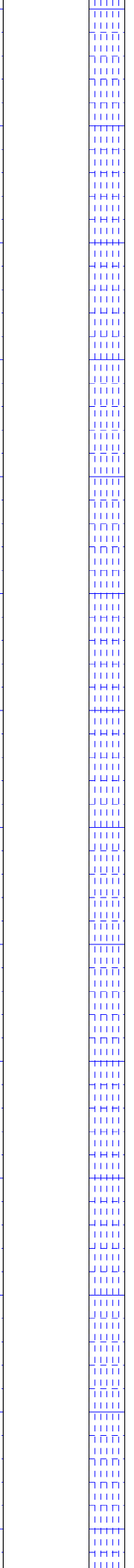
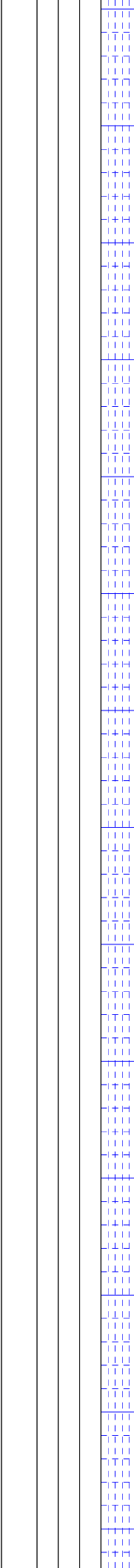
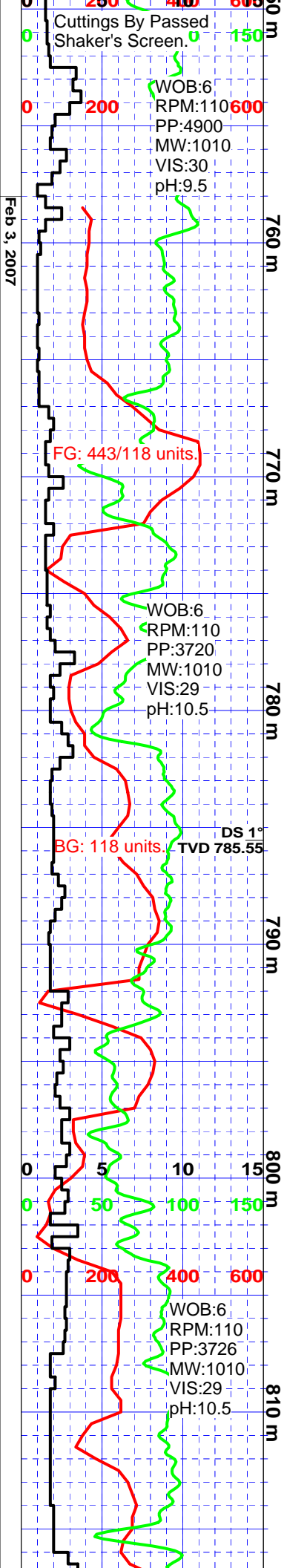


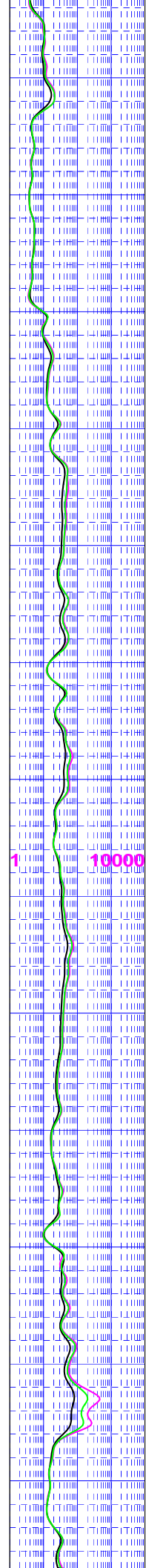
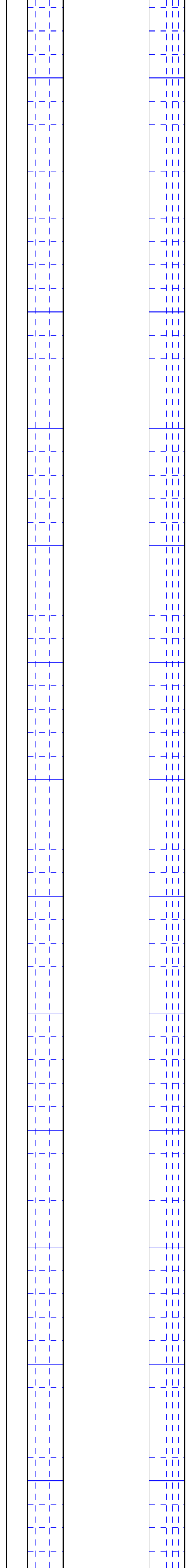
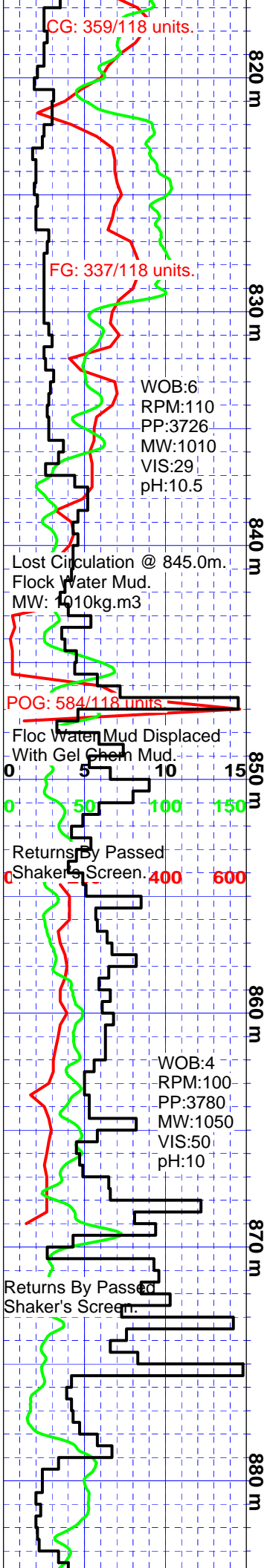


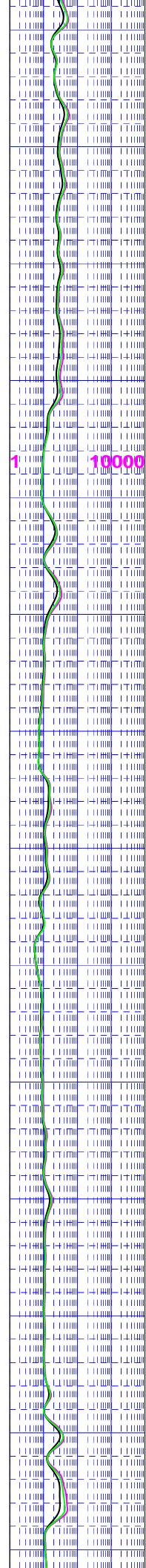
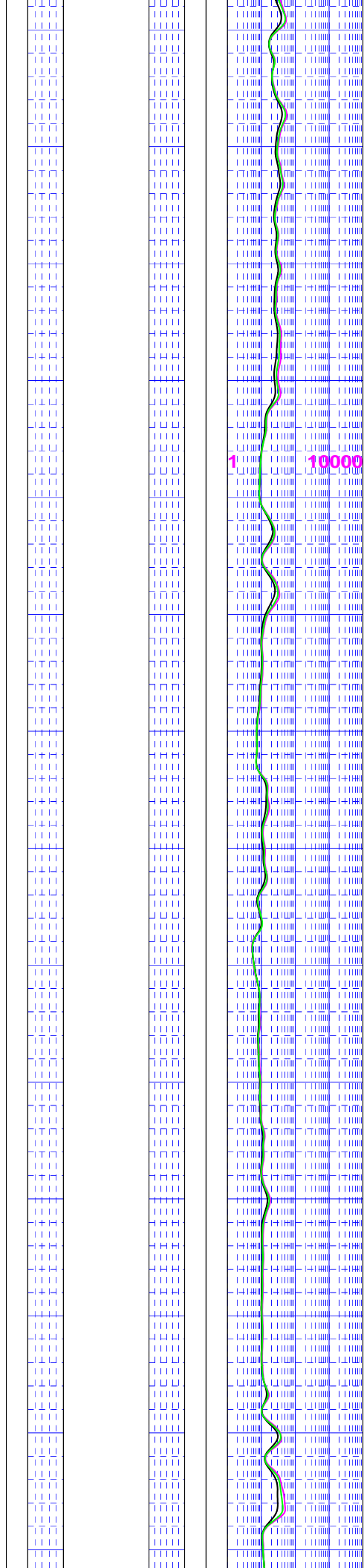
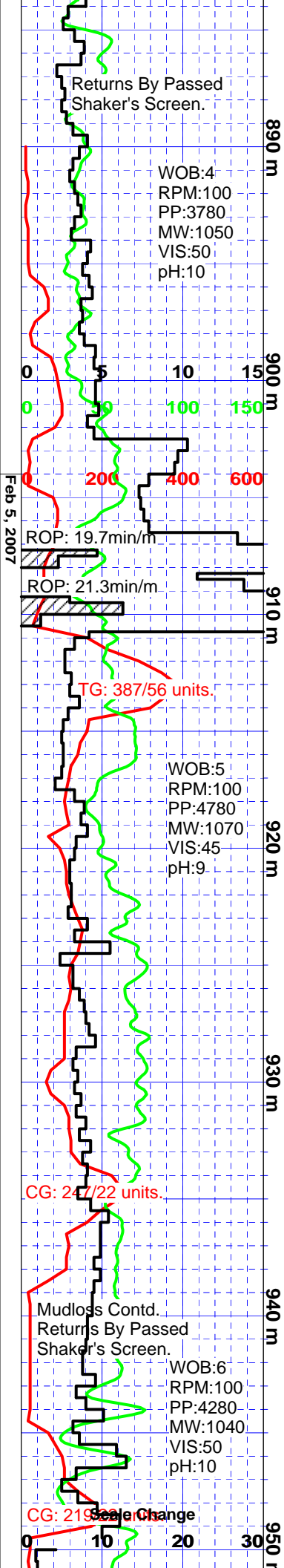


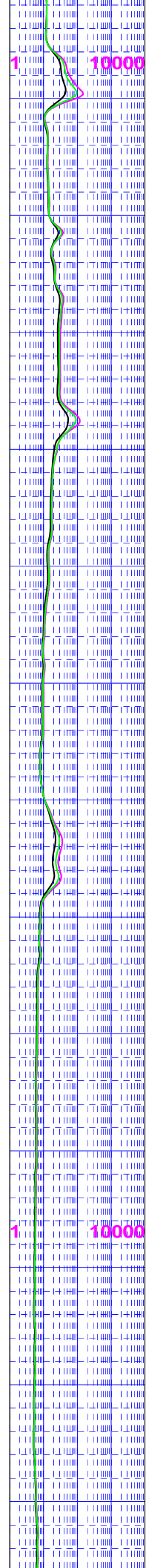
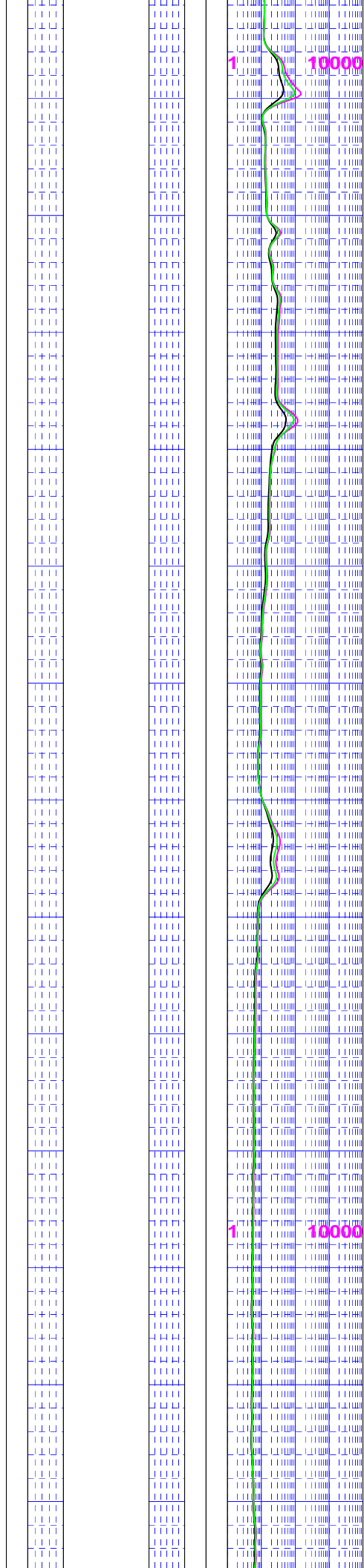
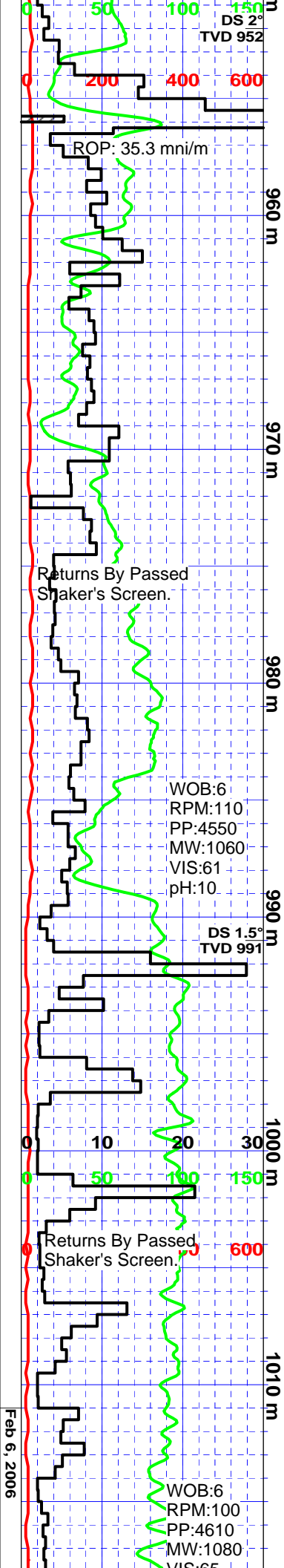
Fort Simpson
(TVD: 717)
(SSL: 52.20)

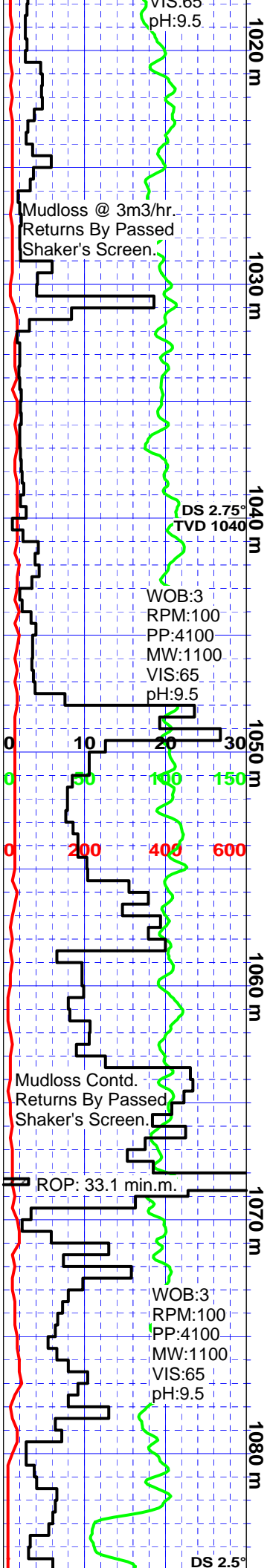
Feb 1, 2007











1020 m

1030 m

1040 m

1050 m

1060 m

1070 m

1080 m

Mudloss @ 3m3/hr.
Returns By Passed
Shaker's Screen.

DS 2.75"
TVD 1040

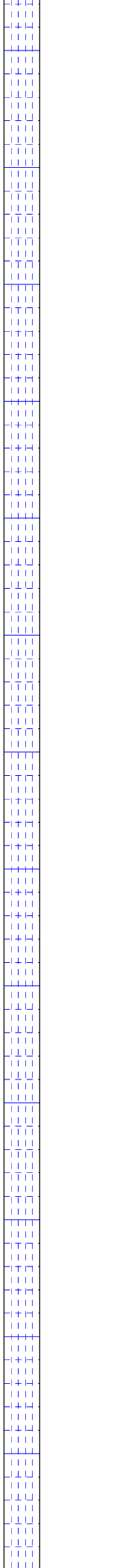
WOB:3
RPM:100
PP:4100
MW:1100
VIS:65
pH:9.5

Mudloss Contd.
Returns By Passed
Shaker's Screen.

ROP: 33.1 min.m.

WOB:3
RPM:100
PP:4100
MW:1100
VIS:65
pH:9.5

DS 2.5"



1020 m

1030 m

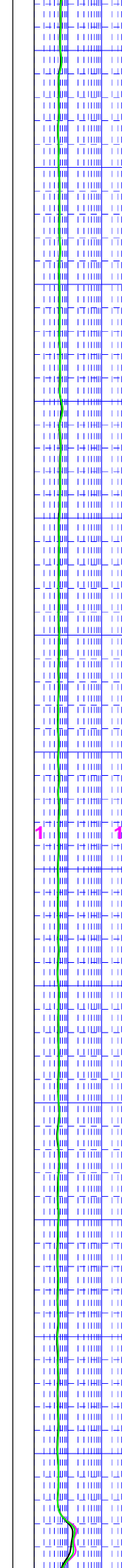
1040 m

1050 m

1060 m

1070 m

1080 m



1020 m

1030 m

1040 m

1050 m

1060 m

1070 m

1080 m



1020 m

1030 m

1040 m

1050 m

1060 m

1070 m

1080 m



1020 m

1030 m

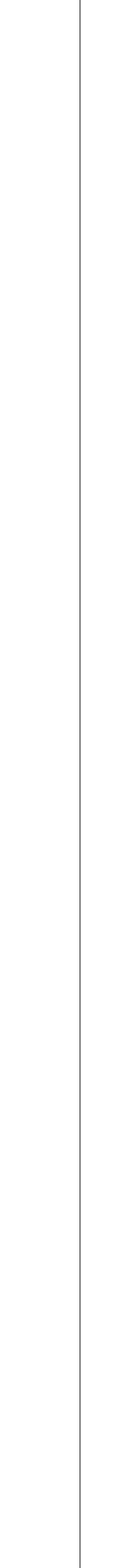
1040 m

1050 m

1060 m

1070 m

1080 m



1020 m

1030 m

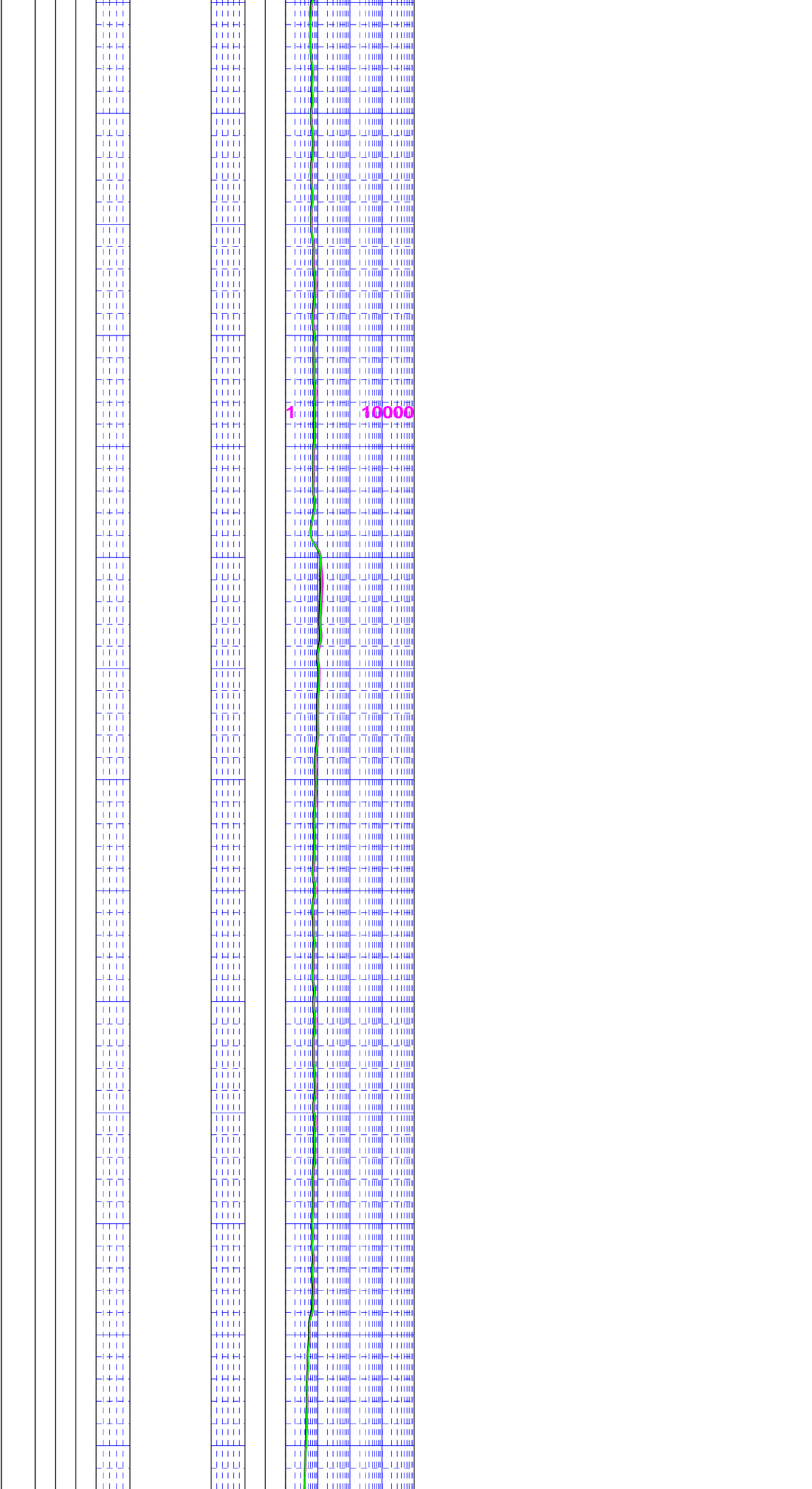
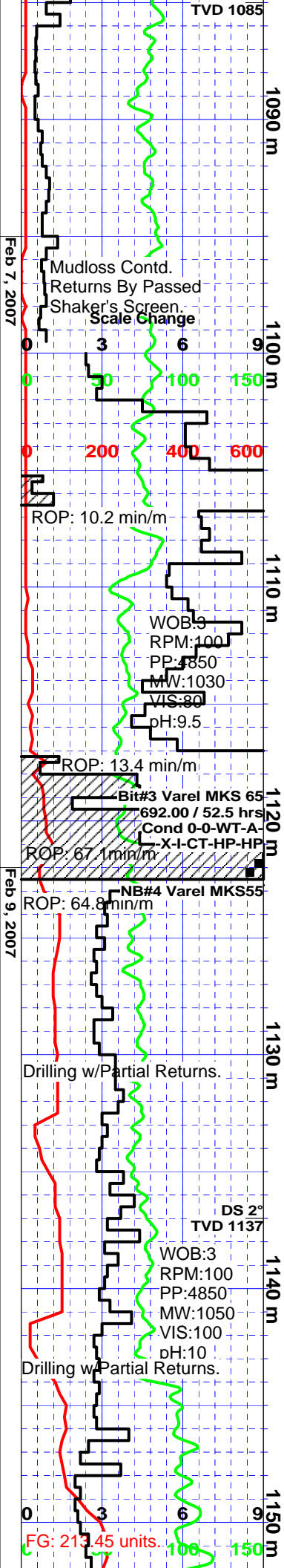
1040 m

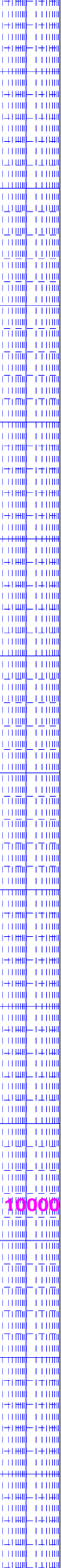
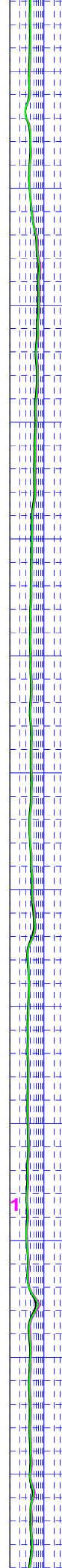
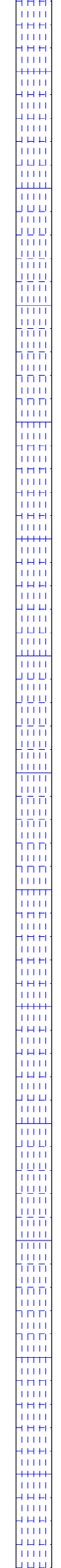
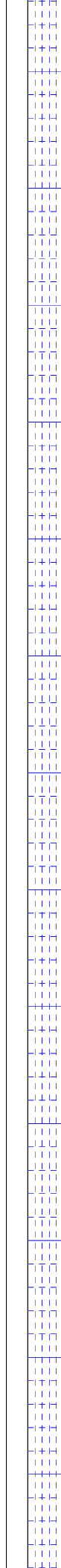
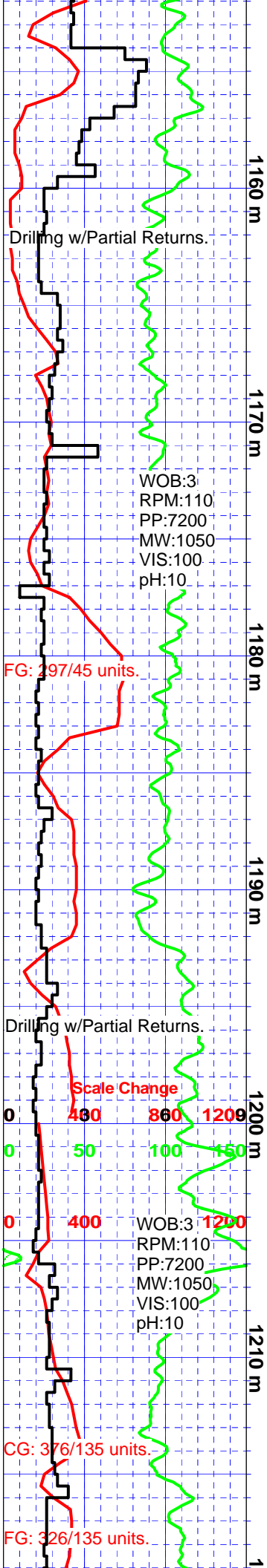
1050 m

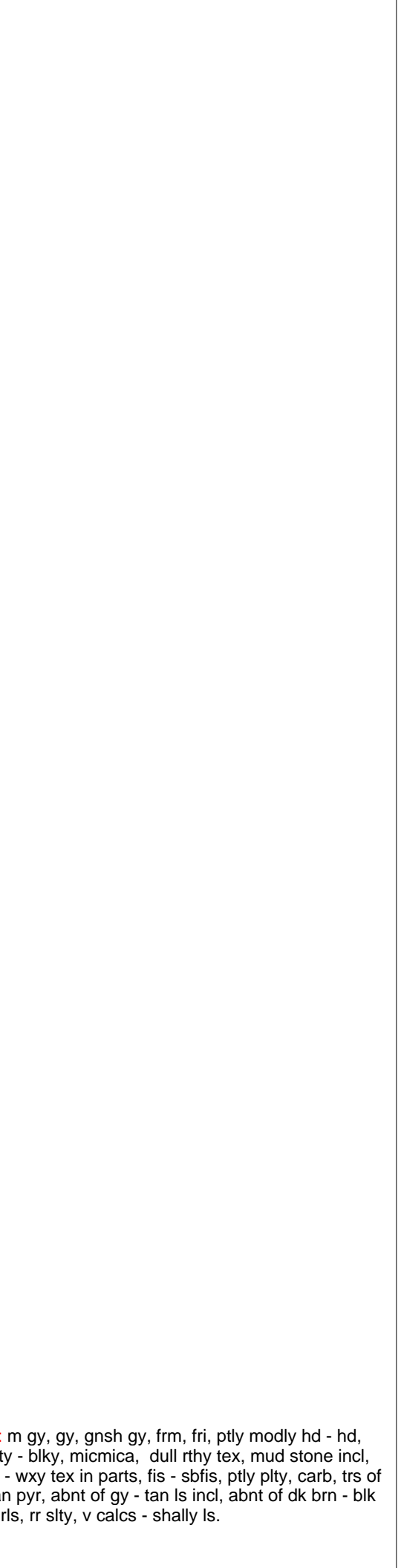
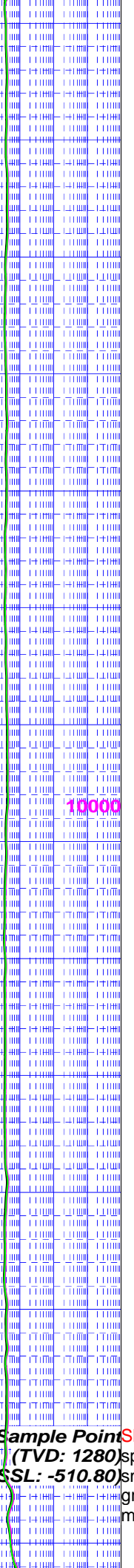
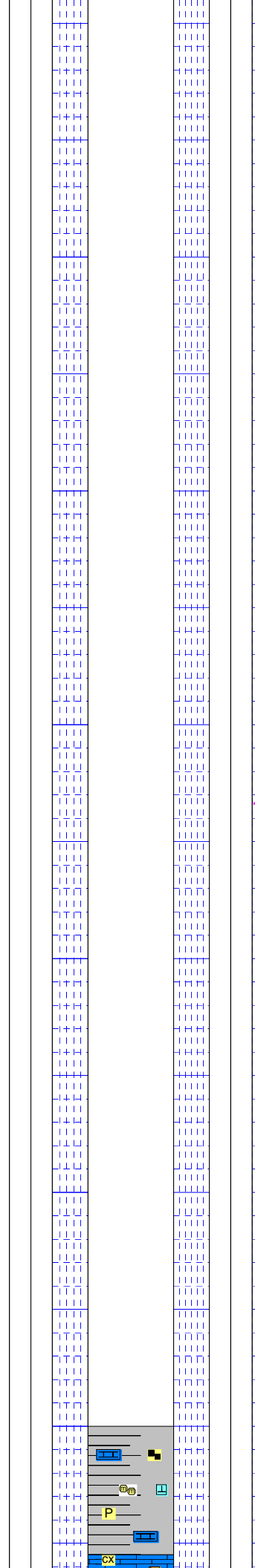
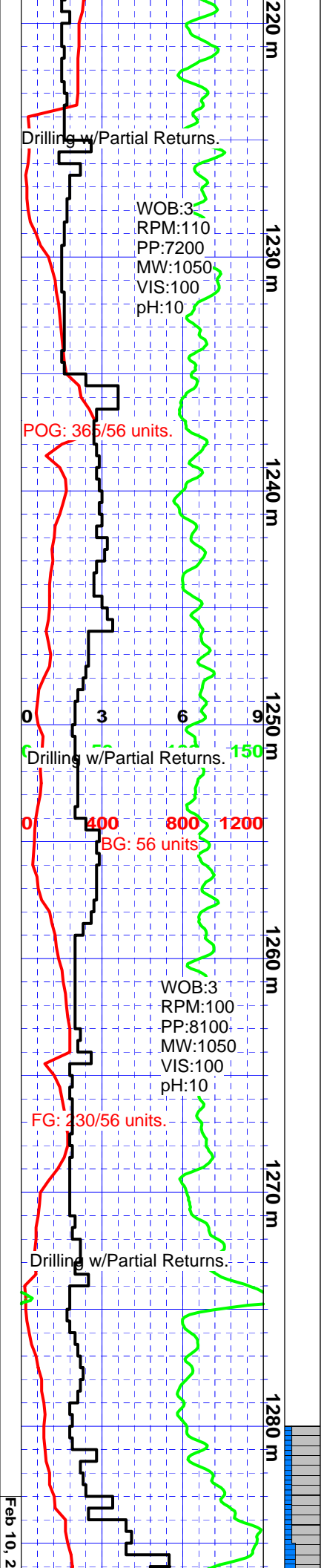
1060 m

1070 m

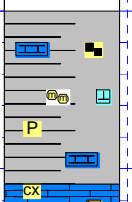
1080 m



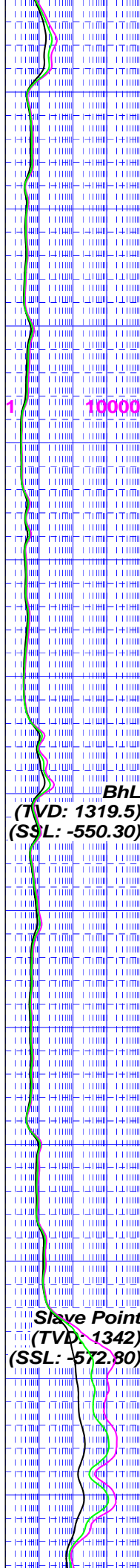
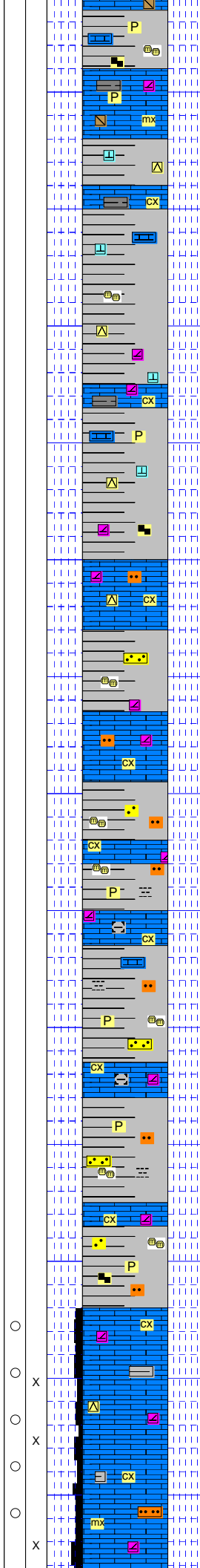
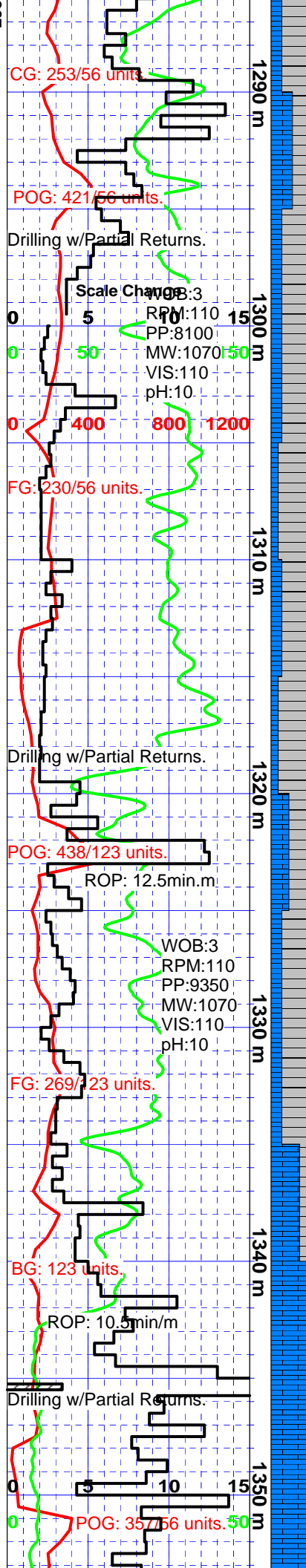




Feb 10, 2



Sample Point Sh: m gy, gy, gnsh gy, frm, fri, ptly modly hd - hd, (TVD: 1280) splty - blk, micmica, dull rthy tex, mud stone incl, (SSL: -510.80) sm - wxy tex in parts, fis - sbfis, ptly plty, carb, trs of gran pyr, abnt of gy - tan ls incl, abnt of dk brn - blk mnrls, rr slty, v calcs - shally ls.



Ls: off wh, lt brn, brnsh gy, mot, in pt chky, frm - crpld, rr modly hd, blkly - sbblky, sm - grty, ptly gry, crpxl - micxl deb, predly mdst, rr wkest, calcar, comly dolc & locly grdg - dolc ls, trs of calc incls, abnt of sh frags, loc dism pyr, p intrxl vis por, ns.

Sh: m gy, gy, gnsh gy, frm, fri, ptly modly hd - hd, splty - blkly, micmica, dull rthy tex, mud stone incl, sm - wxy tex in parts, fis - sbfis, ptly pty, carb, trs of gran pyr, abnt of gy - tan ls incl, abnt of dk brn - blk mnrls, trs of lse c qtz grs, rr slty, v calcs - shally ls.

Sh: m gy, gy, ptly gnsh gy, frm, fri, ptly modly hd - hd, splty - blkly, micmica, dull rthy tex, mud stone incl, sm - wxy tex in parts, fis - sbfis, ptly pty, carb, trs of gran pyr, abnt of gy - tan lmpy - blkly ls, abnt of dk brn - blk mnrls, trs of lse c qtz grs, rr slty, v calcs - shally ls, rr dolc.

Sh: blksh gy, gy, dk gy, trs gnsh gy, frm, fri, modly hd - hd, predly blkly, comly micmica & lmy, ptly dull rthy tex, ptly sm - grty, ptly sbfis, ptly pty, rr thinly lamd, occlly slty, ptly carb, trs of arg ls, rr sltst & ss strgs, calcs.

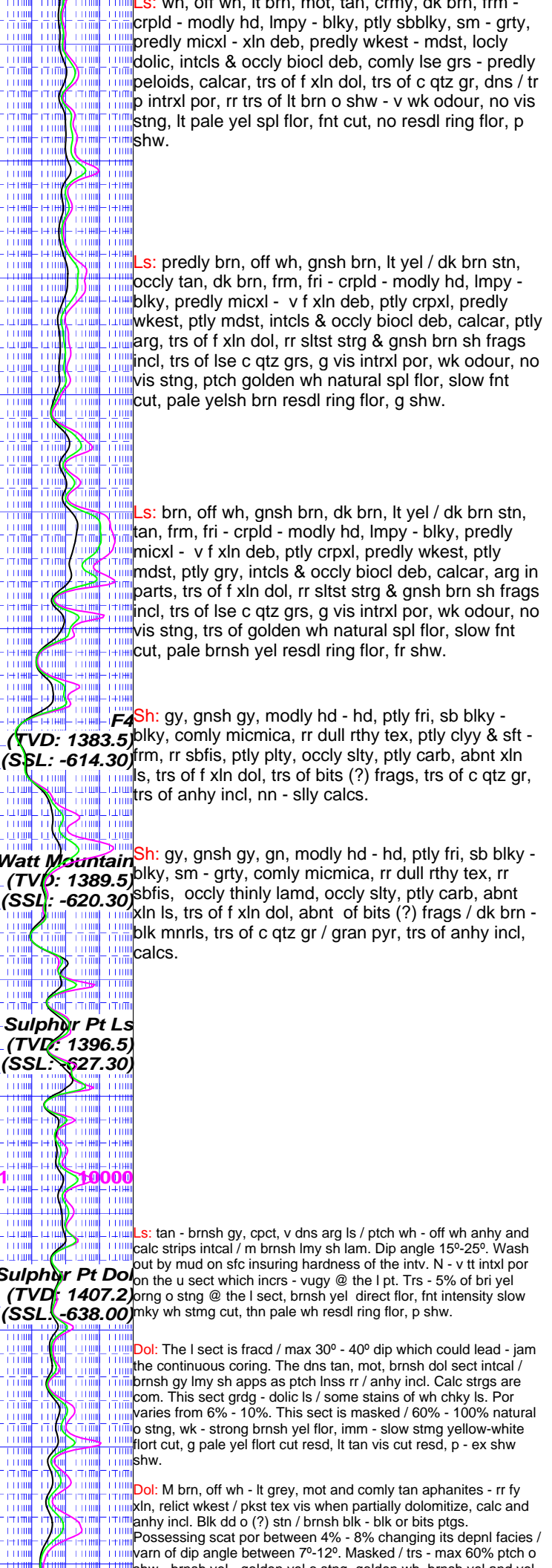
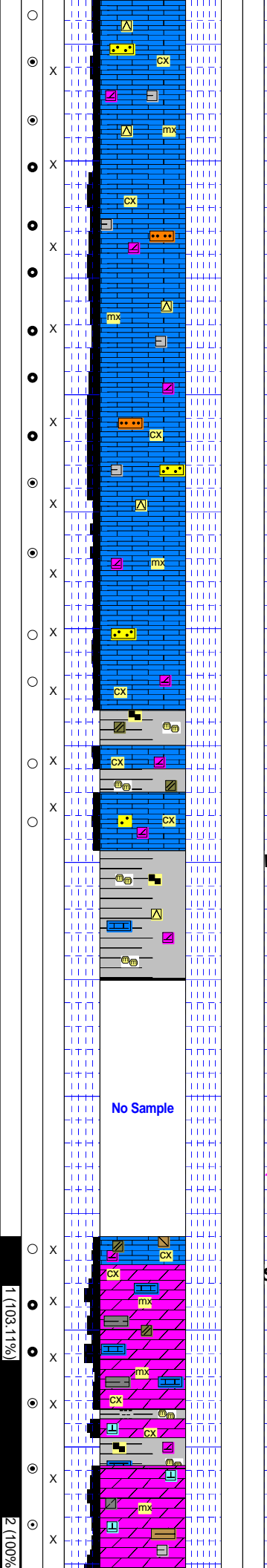
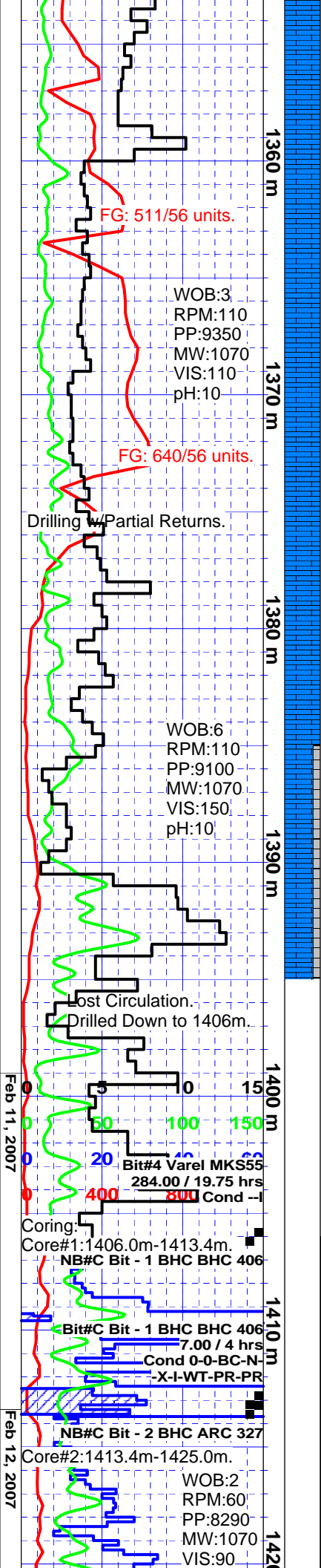
Sh: blksh gy, gy, dk gy, trs gnsh gy, modly hd - hd, rthy tex, ptly fri, sb blkly - blkly, comly micmica & lmy, ptly dull rthy tex, ptly sm - wxy, ptly sbfis, ptly pty, rr thinly lamd, ptly clyy, occlly slty, ptly carb, clyy in parts, trs of arg ls, trs bits in pt (?), abnt of sh frags, loc dism pyr, trs of lse c qtz grs / rr siltstone & ss strgs, calcs. trs of sltst and ss strgs, abnt of arg ls, calcs.

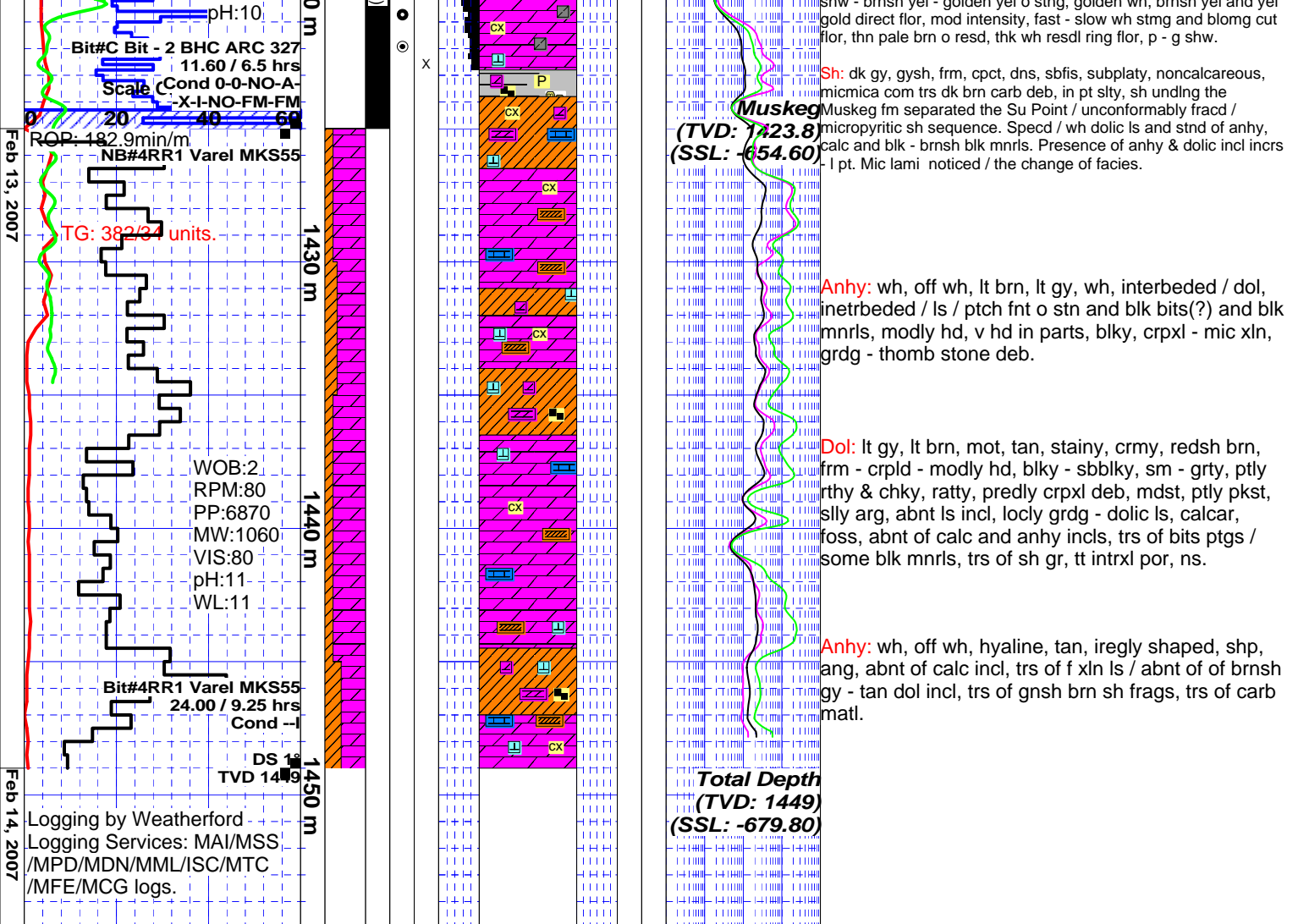
Sh: gy, dk gy, brnsh gy, occlly gnsh gy, modly hd - hd, ptly fri, sb blkly - blkly, sm - grty, comly micmica, ptly lmy, ptly dull rthy tex, rr sbfis, ptly pty & rr thinly lamd, occlly slty, ptly carb, trs of arg ls, trs of c qtz graing / some sltst strgs, calcs.

Sh: gy, dk gy, brnsh gy, occlly gnsh gy, modly hd - hd, ptly fri, sb blkly - blkly, sm - grty, comly micmica, ptly lmy, ptly dull rthy tex, rr sbfis, ptly pty, rr thinly lamd, occlly slty, ptly carb, trs of arg ls, trs of gran pyr, calcs.

Slave Point (TVD: 1342) (SSL: -572.80)

Ls: wh, off wh, lt brn, mot, tan, crmy, dk brn, frm - crpld - modly hd, lmpy - blkly, ptly sbblky, sm - grty, predly micxl - xln deb, predly wkest - mdst, locly dolc, intcls & occlly biocl deb, comly lse grs - predly peloids, calcar, trs of f xln dol, trs of c qtz gr, dns / tr p intrxl por, rr trs of lt brn o shw - v wk odour, no vis stng, lt pale yel spl flor, fnt cut, no resdl ring flor, p shw.





PLAN AND FIELD NOTES

OF SURVEY OF

PROPOSED EXPLORATORY WELL

PARA ET AL CAMERON J-4

IN UNIT J, SECTION 4

GRID AREA 60° 10', 117° 30'

NORTHWEST TERRITORIES

CANADA OIL AND GAS REGULATIONS
EXPLORATORY WELL, NORTHWEST TERRITORIES

SCALE 1:20,000



SURVEYED FOR

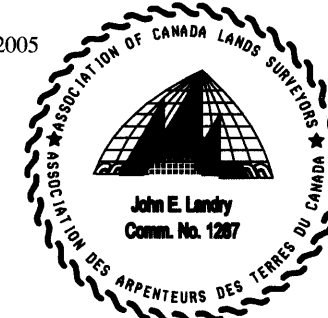
PARAMOUNT RESOURCES LTD.

AFFIDAVIT

THIS SURVEY WAS EXECUTED ON THE DATE OF JULY 9th, 2005
BY JOHN E. LANDRY, C.L.S.

CERTIFIED CORRECT ON THE 26th DAY OF JULY, 2005

JOHN E. LANDRY
CANADA LANDS SURVEYOR



AREA REQUIRED:

	Hectares	Acres
WELL SITE	1.210	2.99
ACCESS ROAD	0.681	1.68
TOTAL	1.891	4.67

BEARING TREES

STATION	BEARING	DISTANCE	TREE
J-74-1	32°54'45"	14.0	0.10 POPLAR
	66°14'45"	22.2	0.10 SPRUCE
	104°51'45"	23.5	0.10 SPRUCE
J-74-2	32°19'45"	9.6	0.10 SPRUCE
	156°06'45"	12.2	0.08 SPRUCE
	220°15'45"	11.5	0.10 SPRUCE

GEOGRAPHIC AND UTM COORDINATES, (1983 NAD)

Station	Latitude(N)	Longitude(W)	Northings	Eastings	Elev.
CONTROL MONUMENTS					
J-74-1	60°03'30.048"	117°30'06.523"	6658015.167	472059.573	769.04
J-74-2	60°03'30.626"	117°31'04.760"	6658039.998	471159.003	764.76
K-74-1 (Fixed)	60°03'46.872"	117°29'28.971"	6658230.818	472651.894	774.24
K-74-2	60°03'37.162"	117°29'28.331"	6658531.282	472644.233	779.95
PROPOSED WELL					
J-04, WELL CENTRE	60°03'31.766"	117°30'52.959"	6658073.854	471341.800	764.62

GRID AREA 60°10', 117° 30' - GEOGRAPHIC AND UTM COORDINATES, (1927 NAD)

N.E.	60°10'00"	117°30'00"	6669871.559	472250.652
N.W.	60°10'00"	117°45'00"	6670002.853	458376.311
S.W.	60°00'00"	117°45'00"	6651441.753	458165.709
S.E.	60°00'00"	117°30'00"	6651310.016	472110.252
J-04, N.E.	60°03'45.028"	117°30'28.123"	6658274.710	471727.957
J-04, N.W.	60°03'45.052"	117°30'56.248"	6658278.822	471293.012
J-04, S.W.	60°03'30.052"	117°30'56.248"	6657810.786	471289.393
J-04, S.E.	60°03'30.028"	117°30'28.123"	6657810.674	471724.392
PROPOSED WELL GEOGRAPHIC AND UTM COORDINATES, (1927 NAD)				
J-04 W/C	60°03'31.397"	117°30'47.877"	6657855.390	471419.197
LEASE CORNERS				
N.	60°03'34.106"	117°29'56.423"	6657933.12	471421.34
E.	60°03'31.347"	117°30'42.849"	6657853.24	471496.85
S.	60°03'28.883"	117°30'47.877"	6657777.64	471417.05
W.	60°03'31.447"	117°30'52.905"	6657857.53	471341.44

LEGEND

UTM coordinates are computed for Zone 11, Central Meridian
117° W. Bearings were derived from differentially corrected GPS
Observations, and are referred to meridian 117° W.

Distances are expressed in metres and decimals thereof.

Distances shown in traverse are measured distances reduced to
the horizontal at general ground level.

For the computation of coordinates measured distances have been
reduced to the UTM plane by multiplying them by an average
combined scale factor of 0.999492.

Distances shown on grid area subdivisions are UTM plane, NAD 27 Datum.
All other dimensions are based on NAD83 Datum.

(CLS 77) Statutory iron posts placed are shown thus: ○
(CLS 77) Statutory iron posts found are shown thus: ●
Buried pipe lines are shown thus: —
Calculated points are shown thus: △
Traverse stations placed are shown thus (Spikes): —
Areas dealt with shown thus: —
Emergency escape routes are shown thus: —

Survey was completed prior to drilling; therefore well as drilled
may not necessarily agree with proposed location.

0	PLAN ISSUED	NB	JULY 26/05
REV.	DESCRIPTION	BY	DATE
JOHN E. LANDRY CANADA LANDS SURVEYOR		Date: July 26, 2005	SCALE AS SHOWN
McElhanney PROFESSIONAL LAND SURVEYORS 138, 14315-118 Avenue Edmonton, Alberta PH: (780) 451-3420 FAX: (780) 452-7033		Plan No.: 1 of 1	File No.: 16981
		Job No.: 321116981	JDS

Plan ID: E16981WS1



ARRAY INDUCTION

COMPANY	PARAMOUNT RESOURCES LTD.			
WELL	PARAMOUNT ET AL CAMERON J-04			
FIELD	CAMERON HILLS			
PROVINCE/COUNTY	NORTH WEST TERRITORIES			
COUNTRY/STATE	CANADA			
LOCATION	300/J-04-60-10-117-30 FIELD PRINT			
LSD	SEC	TWP	RGE	Other Services
API Number		MICROLOG		PHOTO DENSITY
Permit Number 1159		COMPENSTATED SONIC		DUAL SPACED NEUTRON
Permanent Datum GROUND LEVEL, Elevation 765.20 metres				Elevations: metres
Log Measured From 4.00 M above Permanent Datum				KB 769.20
Drilling Measured From KB				DF
				GL 765.20
Date	15-FEB-2007			
Run Number	1			
Depth Driller	1449.00	metres		
Depth Logger	1449.50	metres		
First Reading	1448.70	metre		
Last Reading	420.00	metre		
Casing Driller	430.00	metres		
Casing Logger	429.80	metres		
Bit Size	200.00	mm		
Hole Fluid Type	GELCHEM			
Density / Viscosity	1060.0 kg/M3	93.00 CP		
PH / Fluid Loss	11.00	11.00 ml/30Min		
Sample Source	FLOWLINE			
Rm @ Measured Temp	1.18 @ 25.0	ohm-m		
Rmf @ Measured Temp	1.04 @ 25.0	ohm-m		
Rmc @ Measured Temp	1.32 @ 25.0	ohm-m		
Source Rmf / Rmc	PRESS	FILTER		
Rm @ BHT	0.78 @ 48.0	ohm-m		
Time Since Circulation	6 HRS			
Max Recorded Temp	48.00	deg C		
Equipment Name	COMPACT			
Equipment / Base	13124	GPR		
Recorded By	G. SINGER			
Witnessed By	A. AHMED			
CIRC. STOP TIME	01:30-FEB-15	Last Line		

BOREHOLE RECORD				Last Edited: 15-FEB-2007 05:01	
Bit Size millimetres		Depth From metres		Depth To metres	
311.000		0.00		430.00	
200.000		430.00		1449.00	
CASING RECORD					
Type	Size millimetres	Depth From metres	Shoe Depth metres	Weight Kg/metre	
SURFACE	219.100	0.00	430.00	35.72	

REMARKS

- 1) SOFTWARE ISSUE: WLS 7.01.0195.
- 2) CUSTOMER SCALES AND LOGGED INTERVALS USED
- 3) TOOLS RUN: MAI, MSS, MPD, MDN, MML, ISC, MGS, MTC, MFE, MCG RUN IN COMBINATION
- 4) HARDWARE: MAI: TWO 25.4 MM STANDOFFS
MSS: THREE 25.4 MM STANDOFFS
MDN: DUAL BOWSPRING AND INTERSONIC CRANK
MTC: SIX LEAF CENTRALIZER

- 5) SERVICE ORDER #: 30073028 SAP #: 4147101 # FIELD PRINTS = 3
- 6) RIG: PD 129

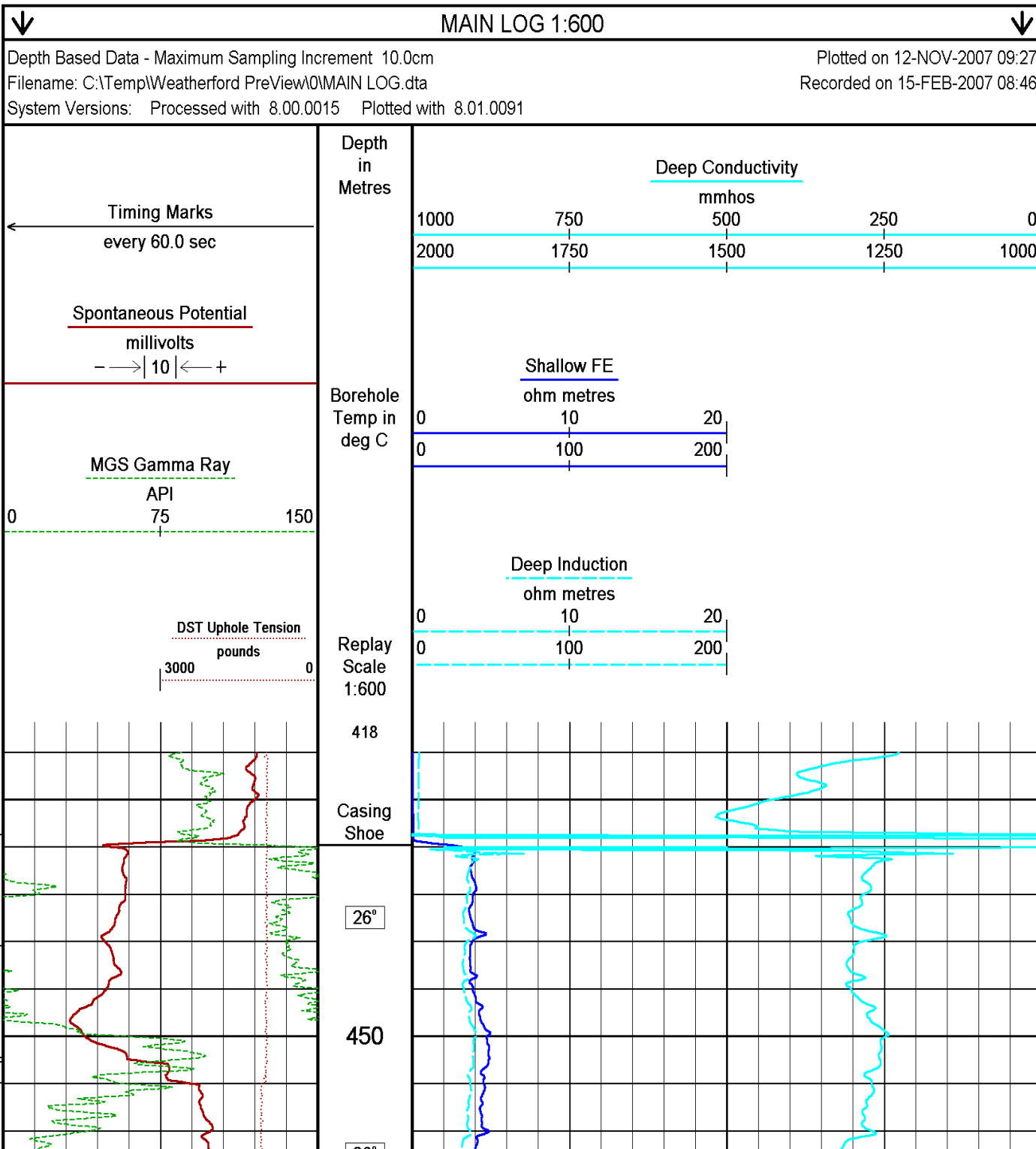
7) HOLE AND CEMENT VOLUMES CALCULATED USING DENSITY AND 2-ARM CALIPERS :

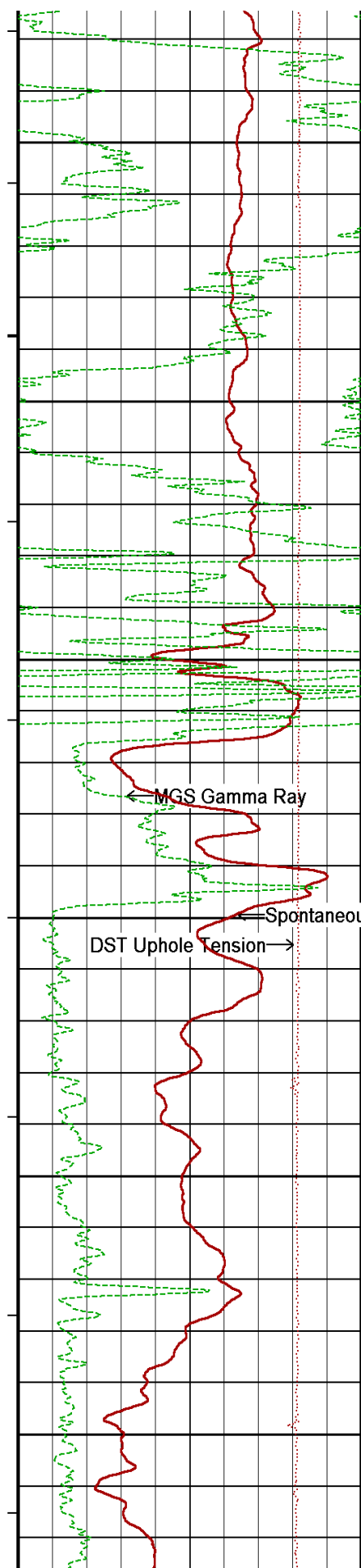
HOLE VOLUME = 37.4 CU.M.

ANNULAR VOLUME USING 139.7 MM PRODUCTION CASING = 21.8 CU.M

8) SONIC FREE PIPE FOUND FROM 352M - 357M

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 interpretations, and we shall not, except in the case of gross or wilful 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 in our price schedule.





20

26°

500

26°

25°

25°

25°

25°

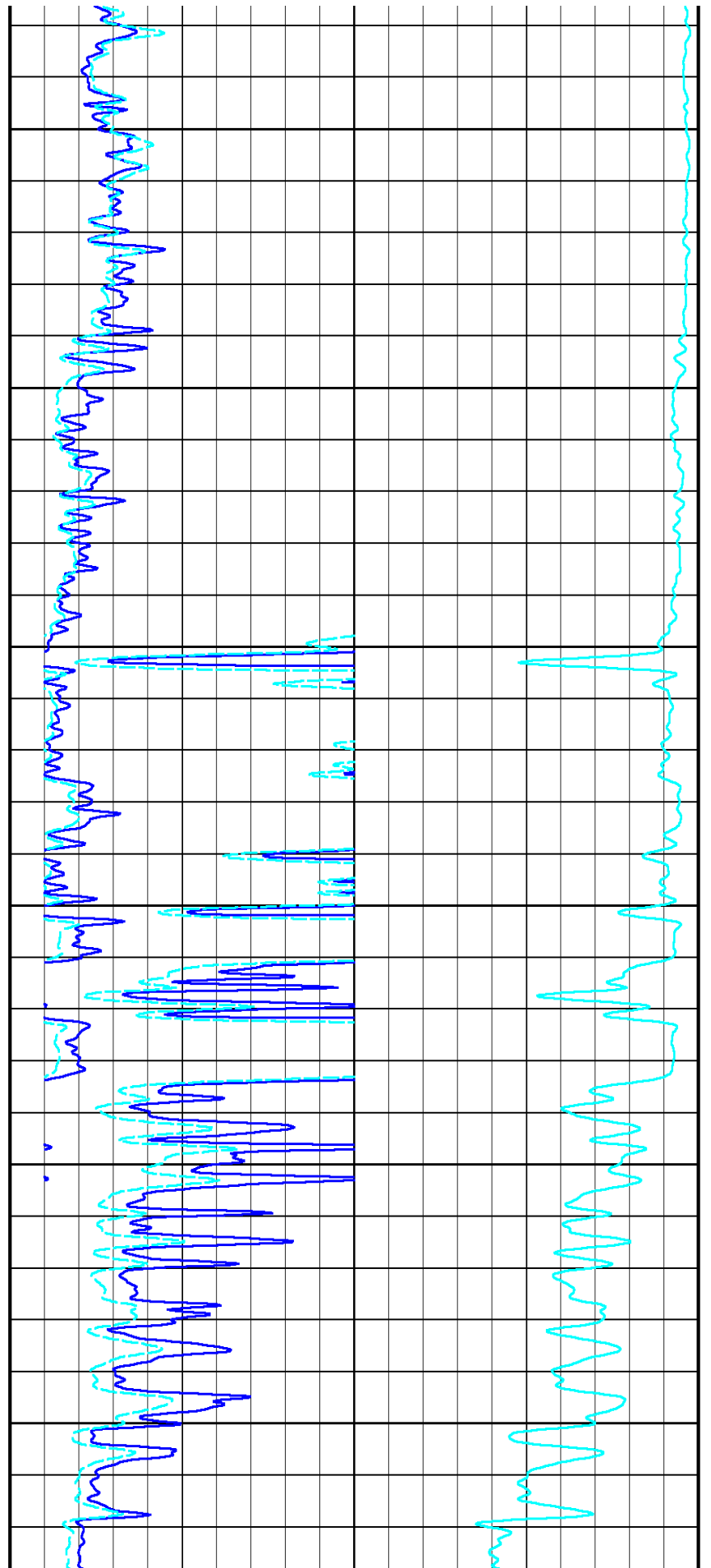
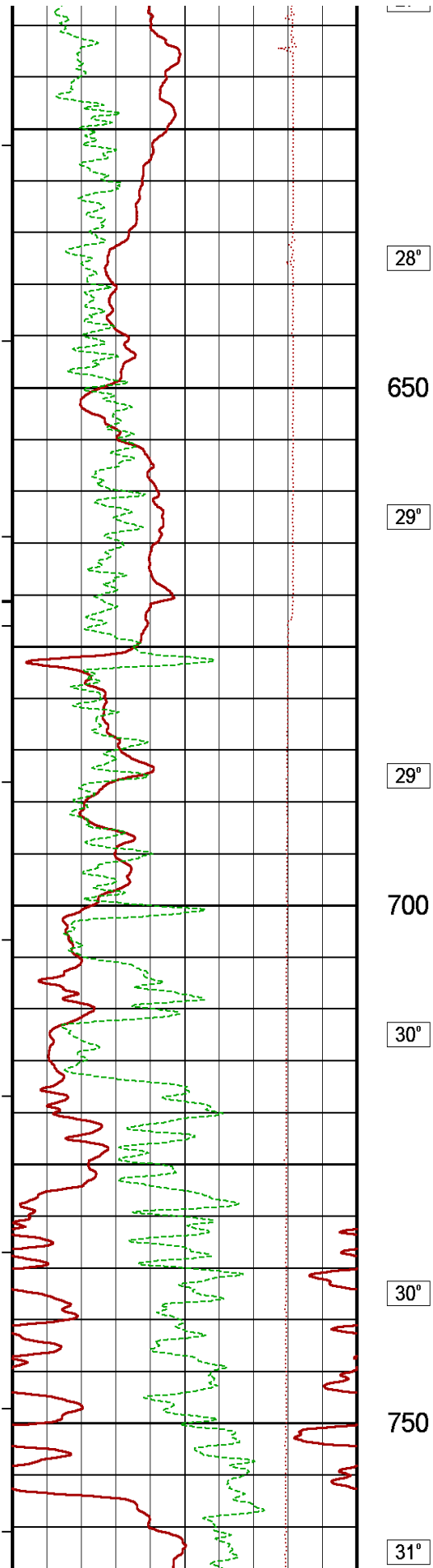
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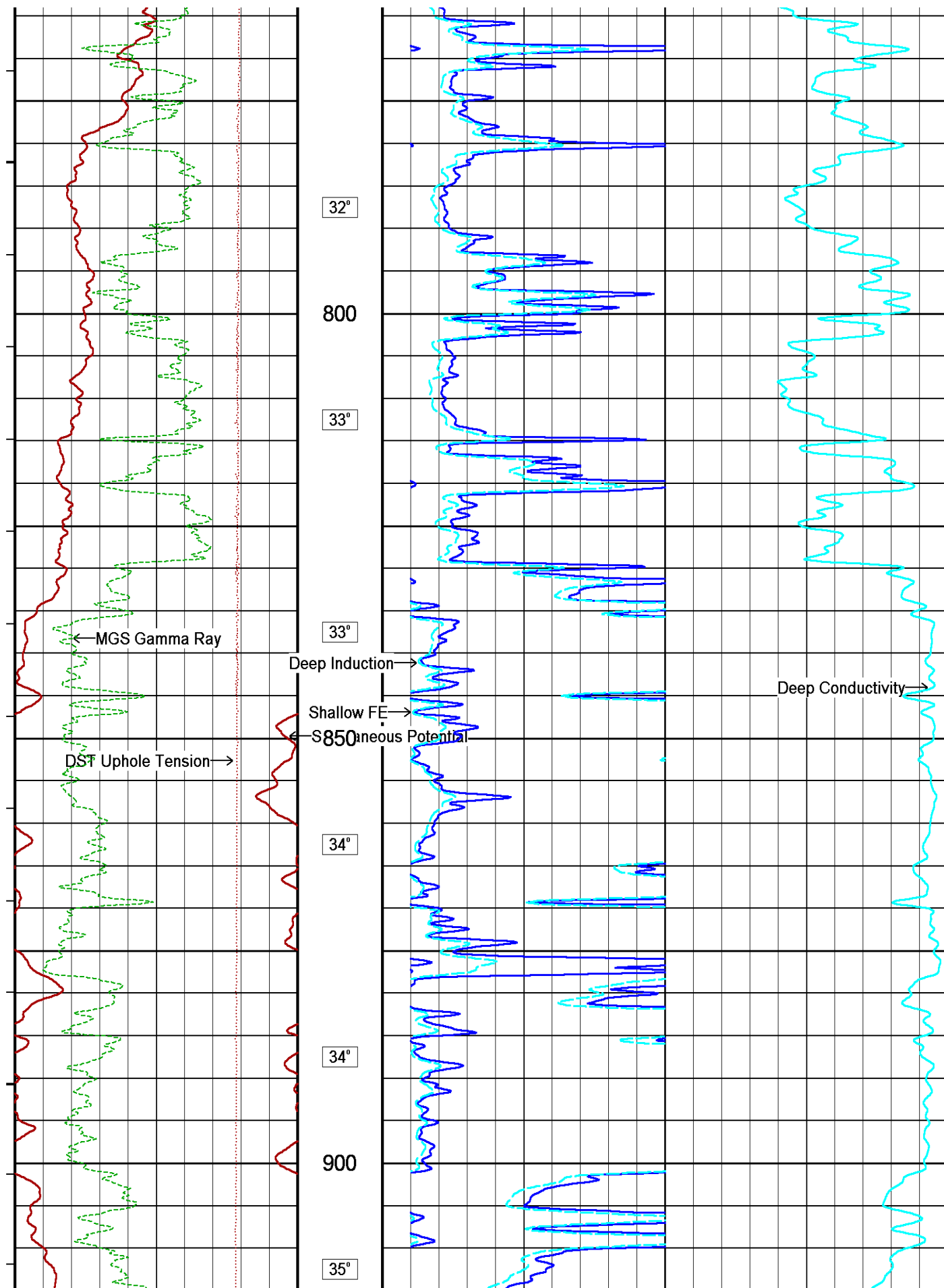
27°

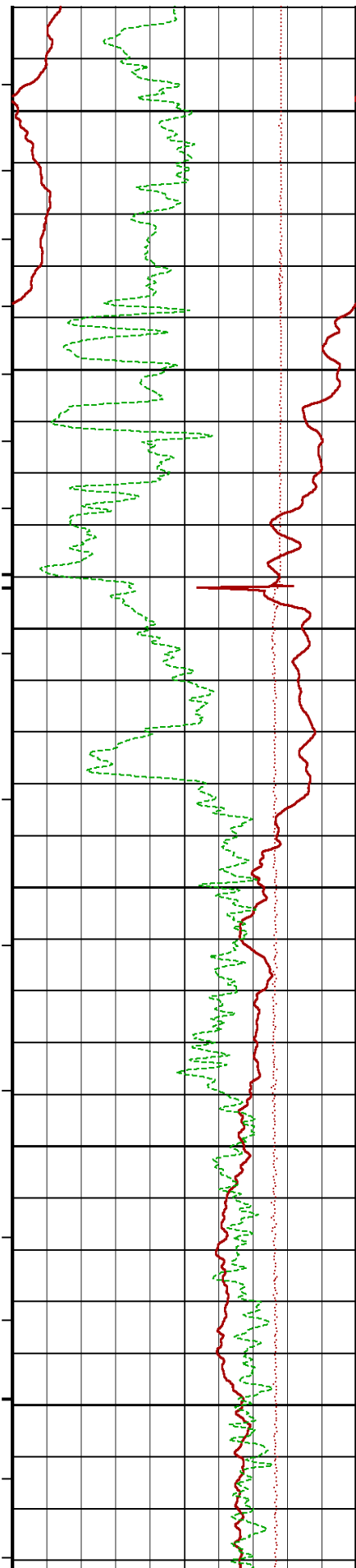
Deep Induction →

Shallow FI →

Deep Conductivity →







35°

950

36°

36°

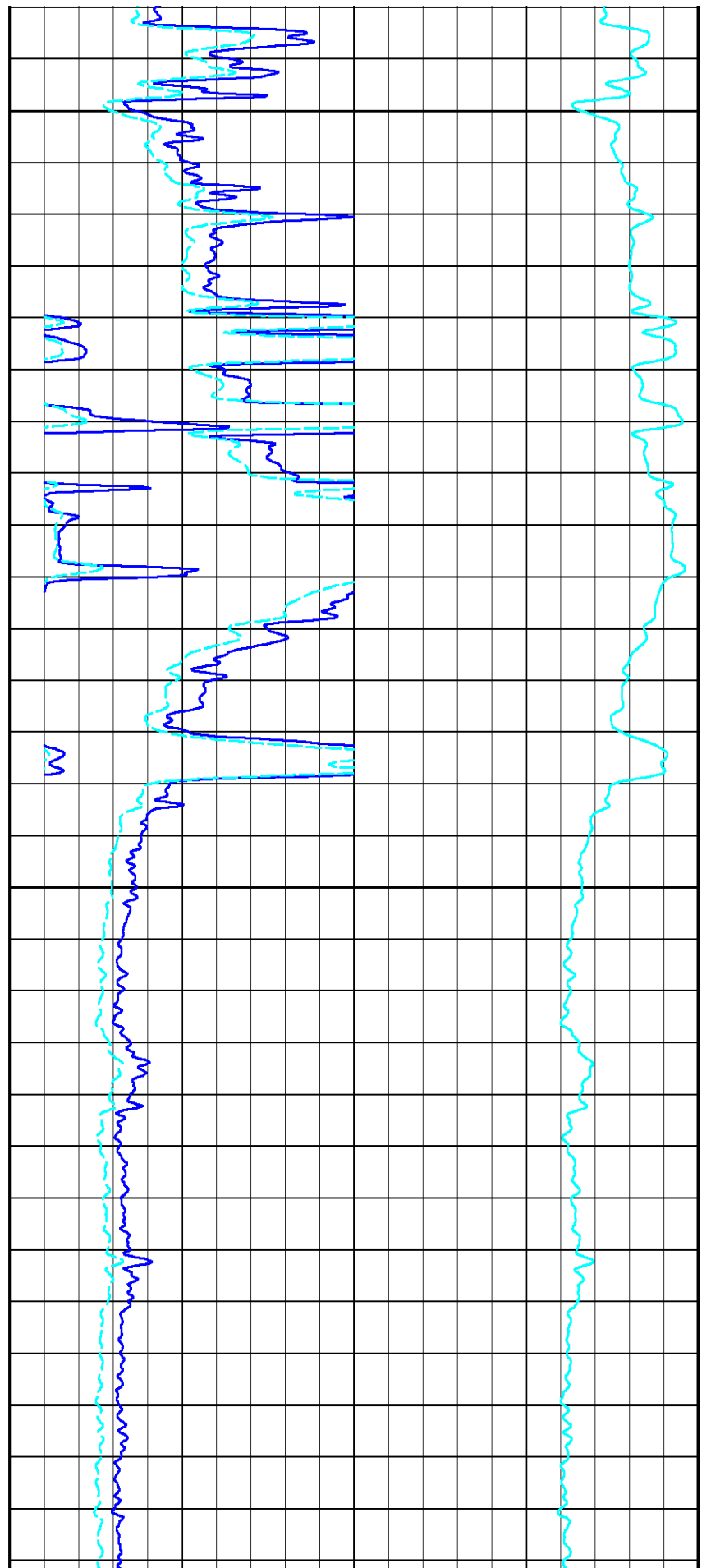
1000

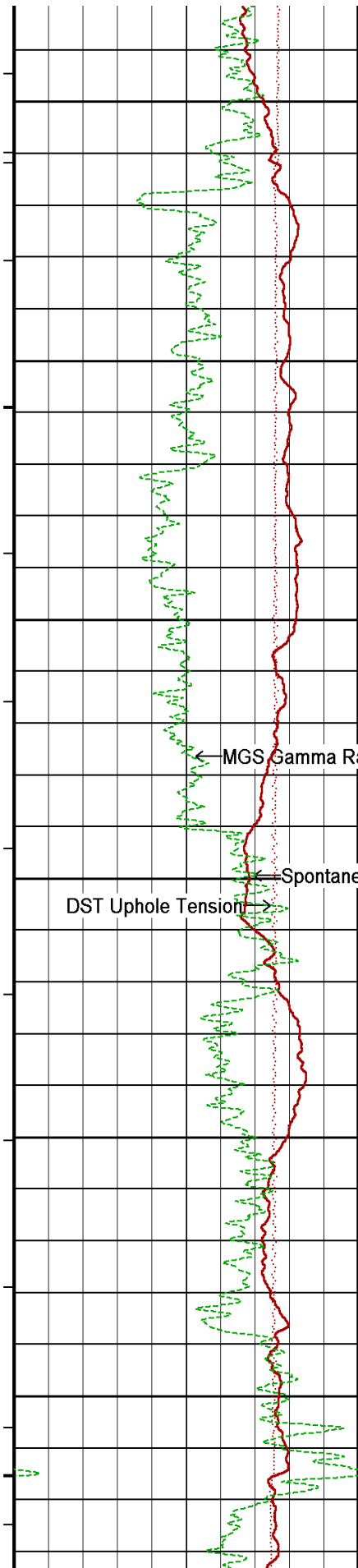
37°

37°

1050

38°





38°

1100

39°

40°

40°

41°

1200

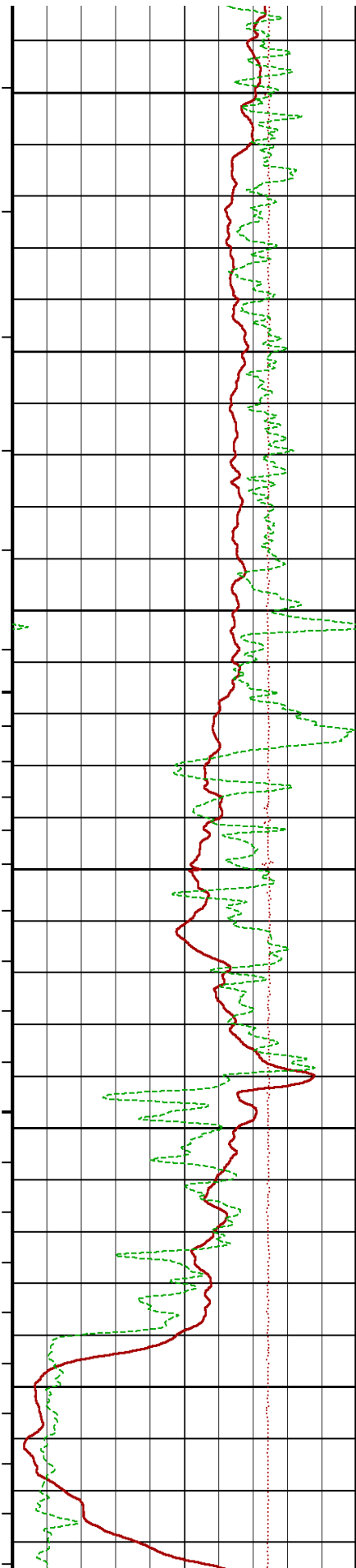
41°

Deep Induction →

Shallow FE →

Initial

Deep Conductivity →



42°

1250

43°

43°

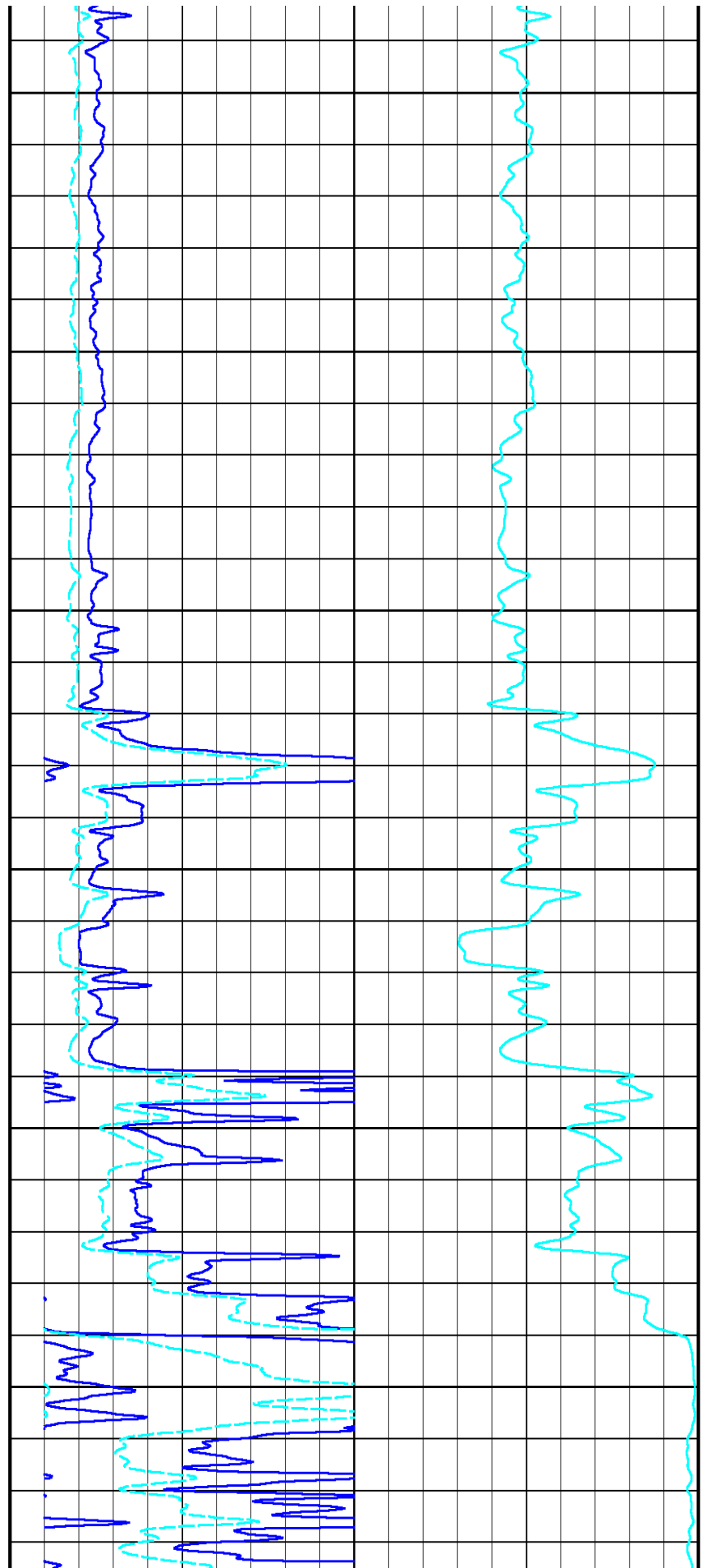
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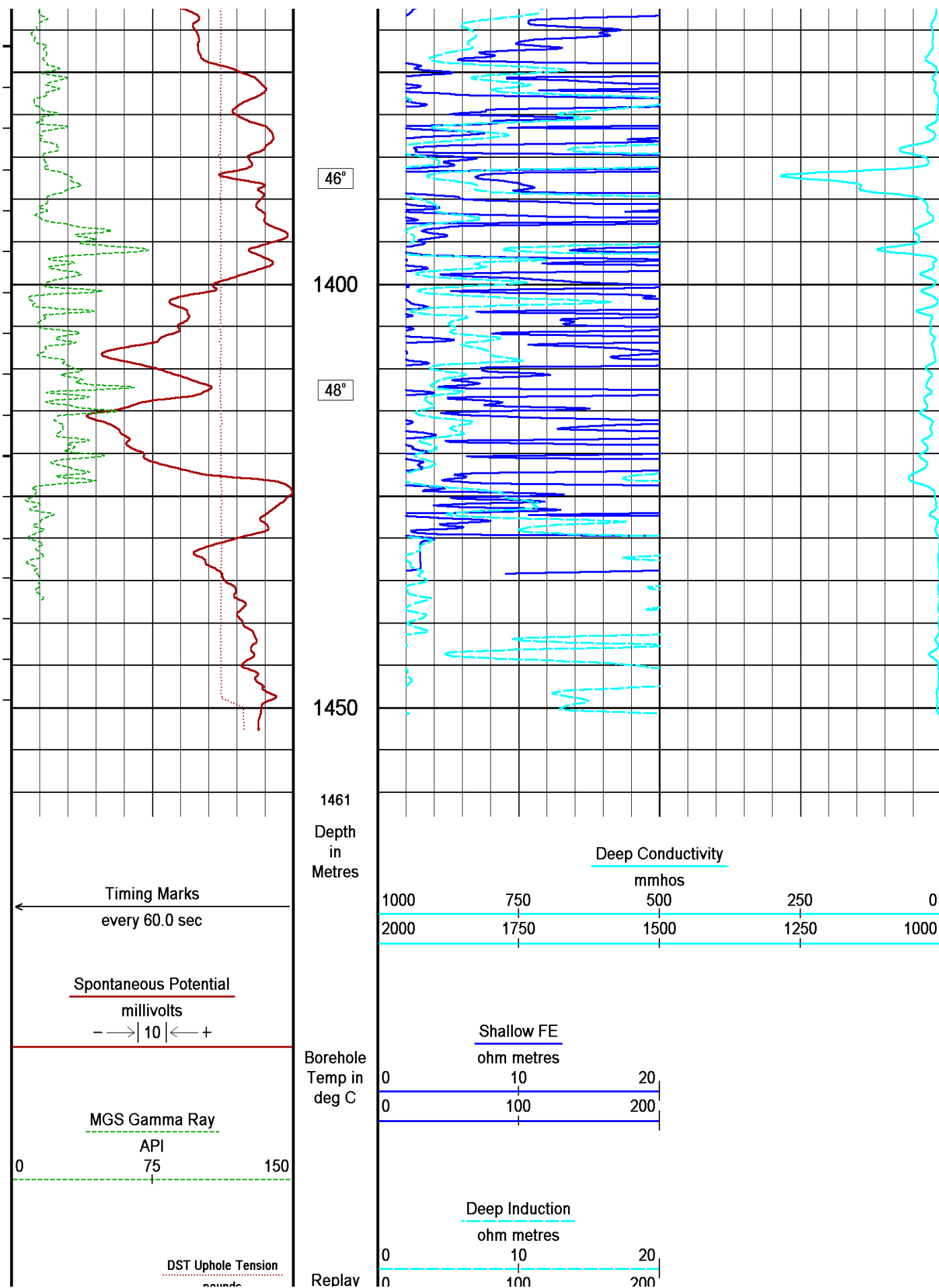
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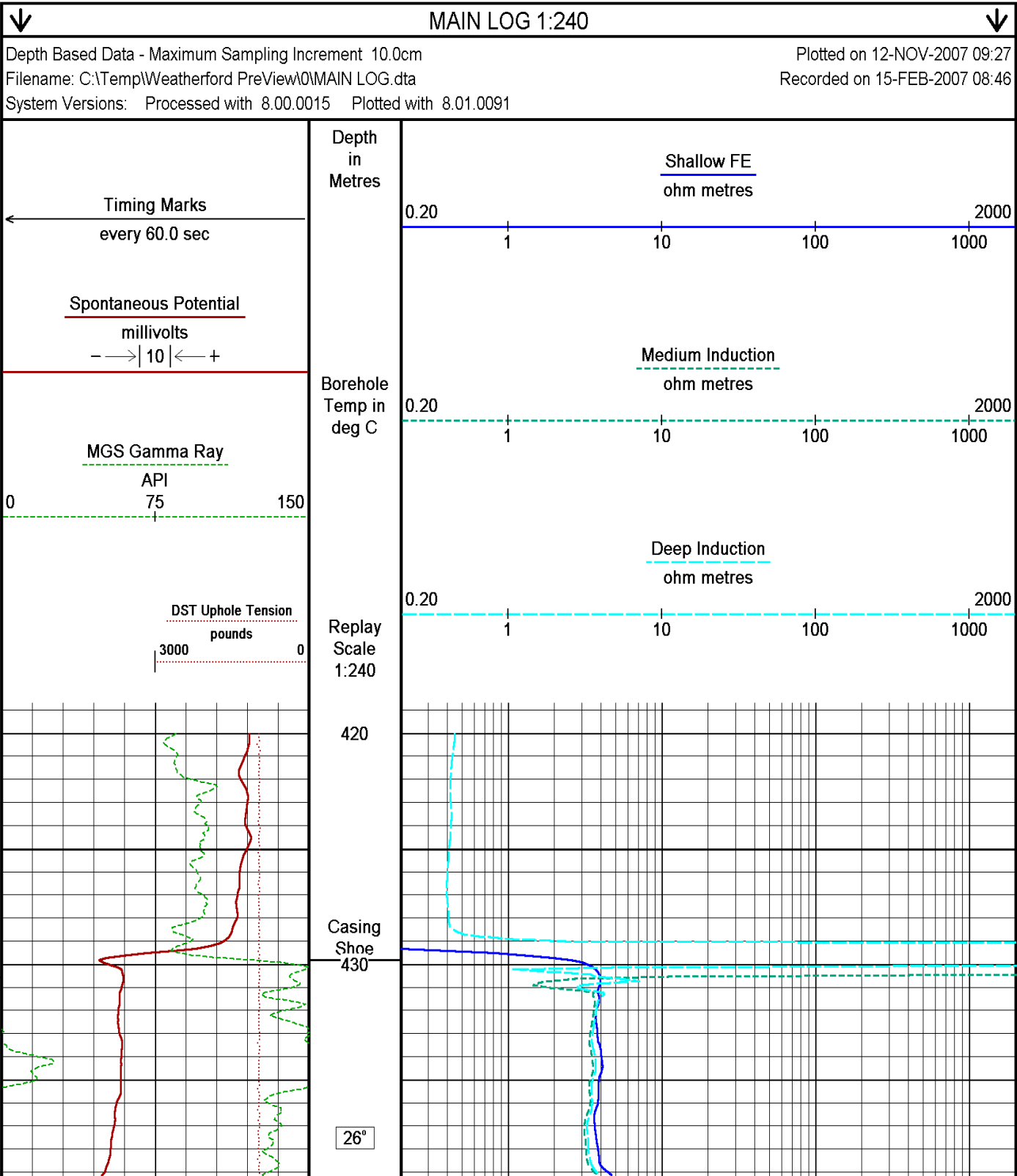
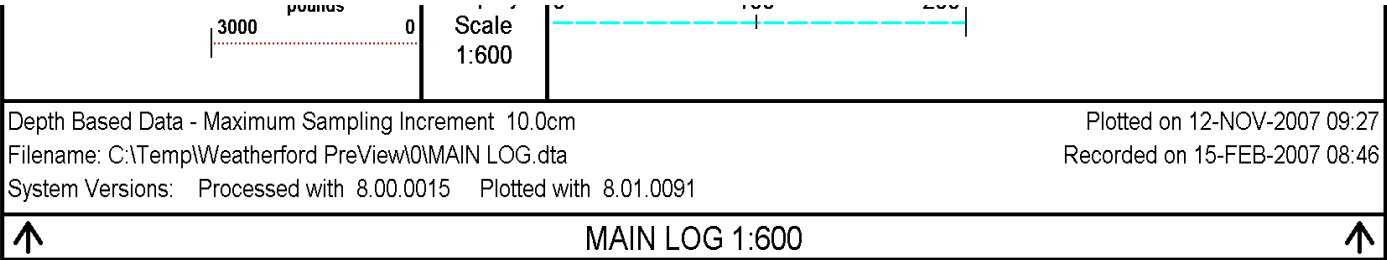
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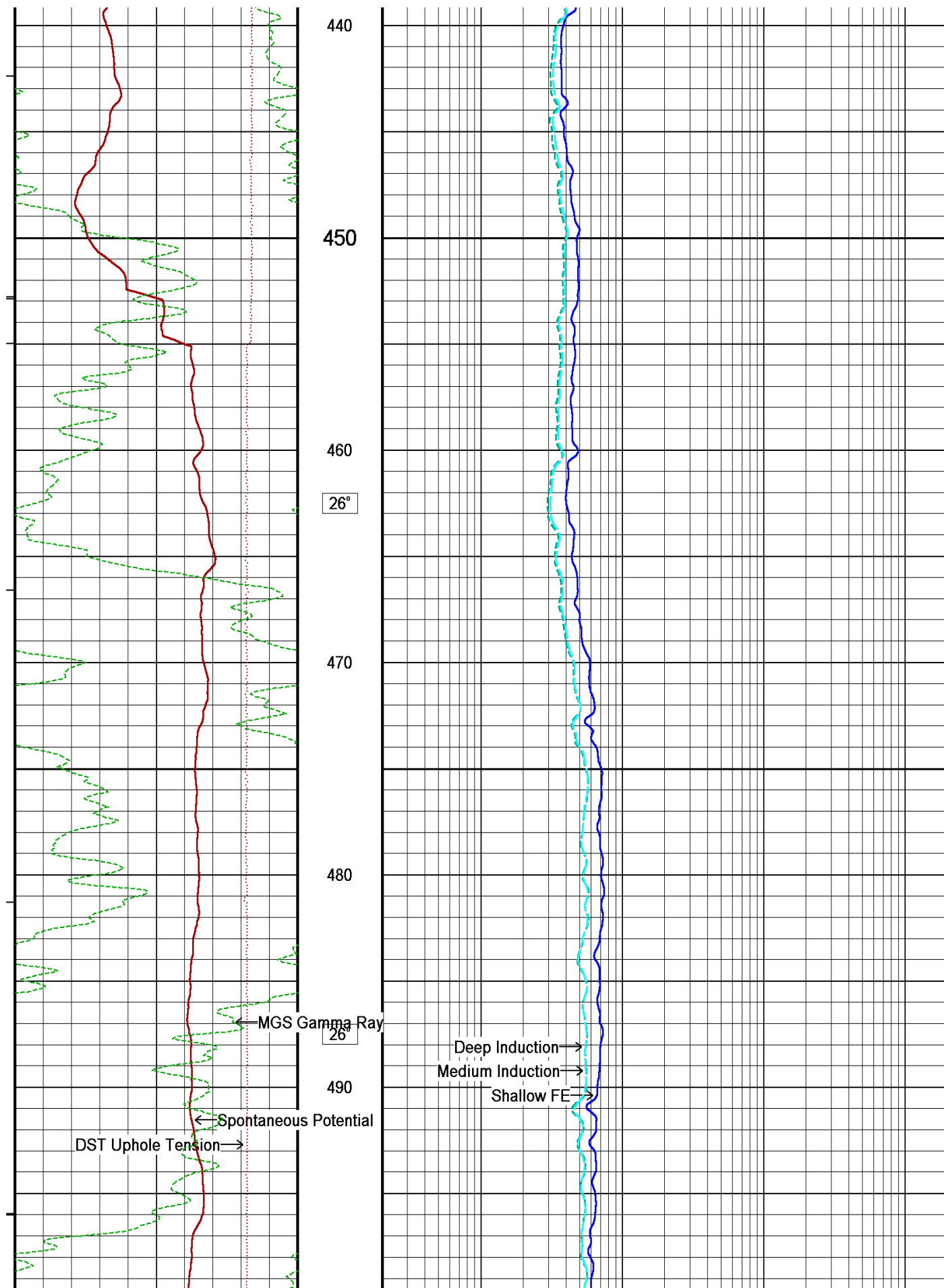
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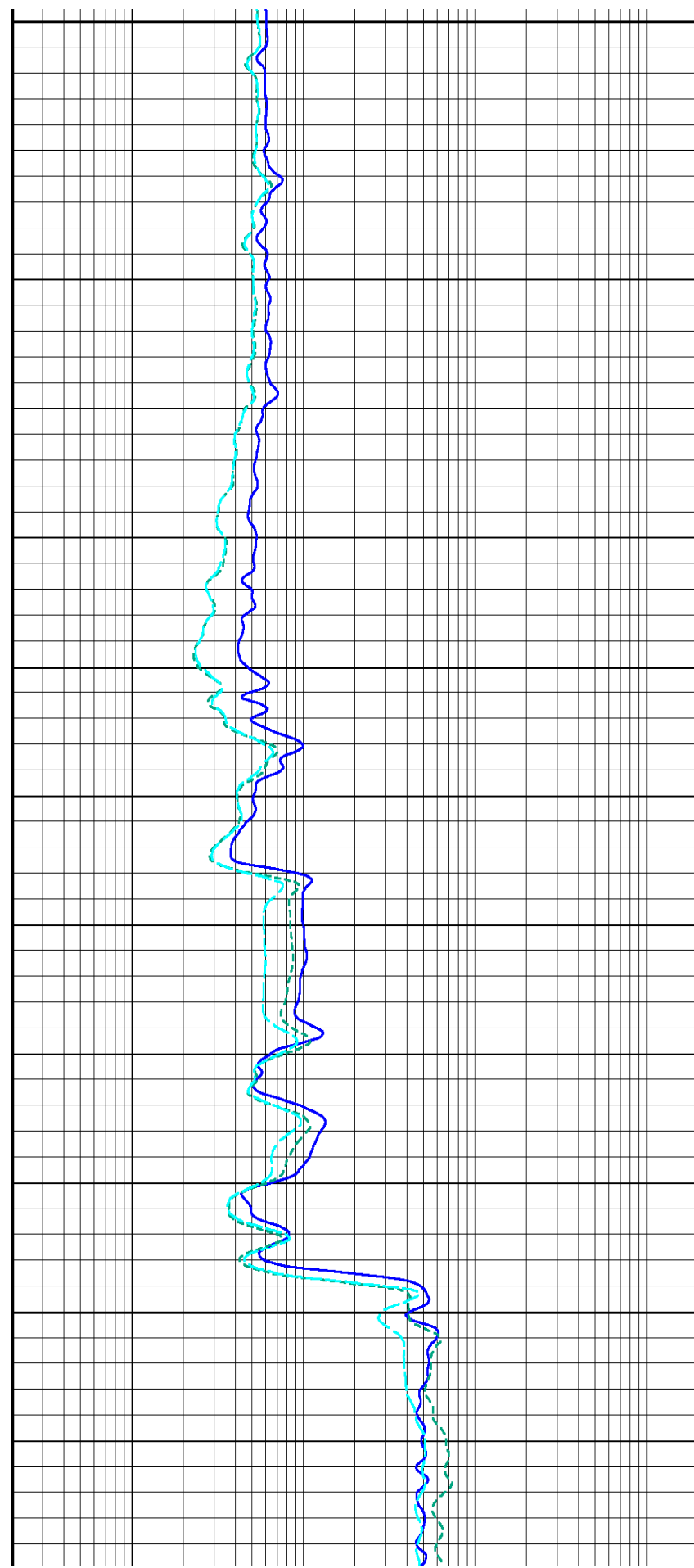
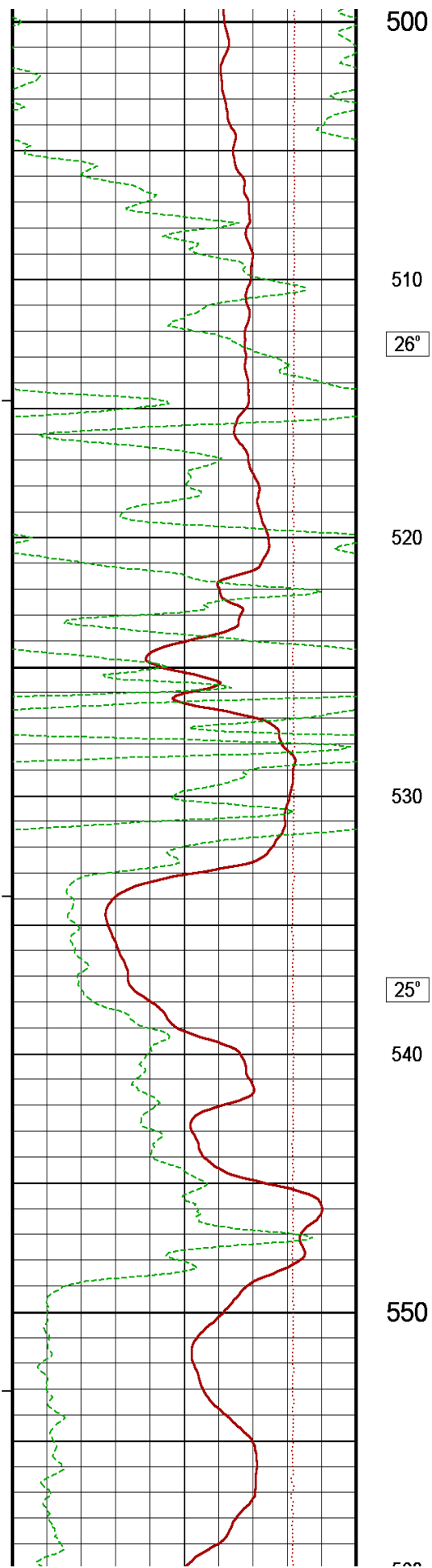
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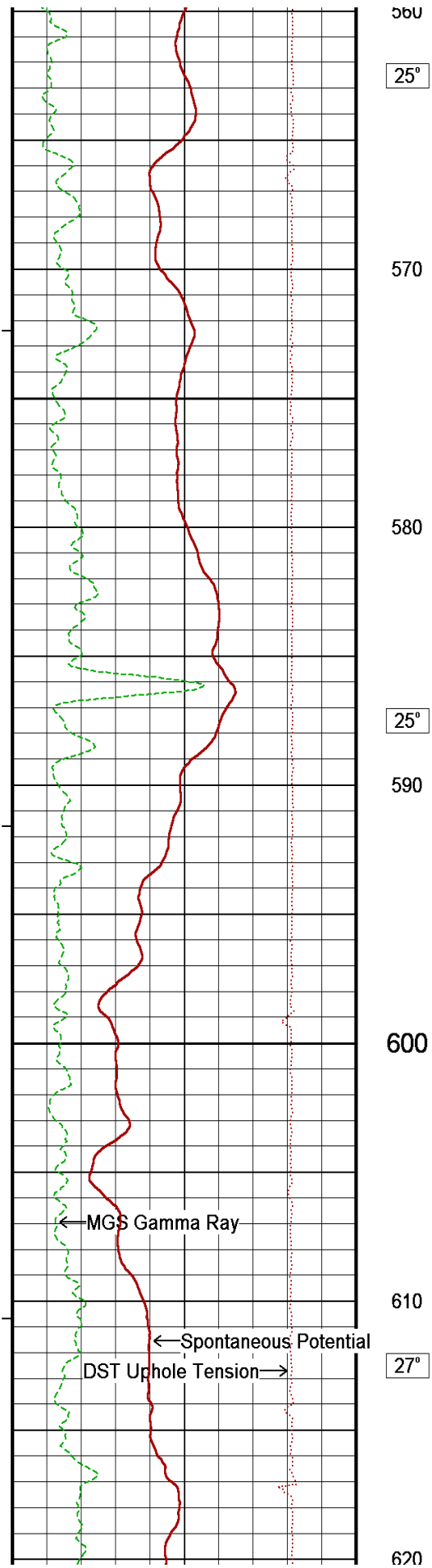




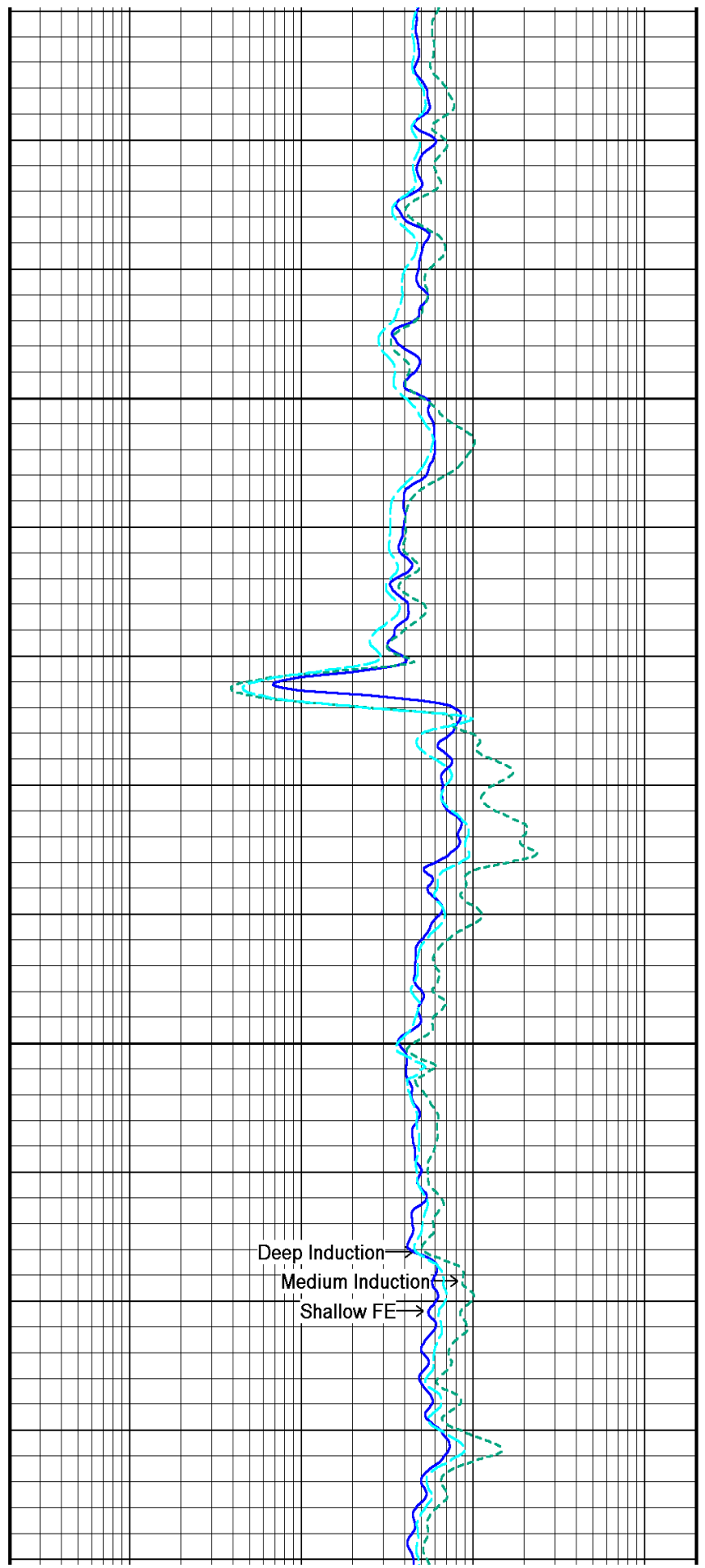




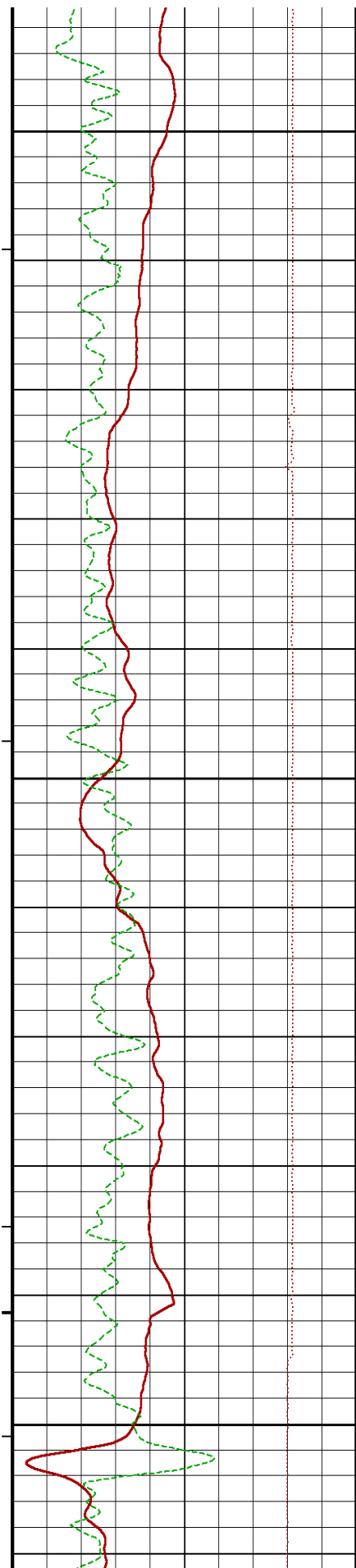




560
25°
570
580
25°
590
600
610
27°
620



Deep Induction
Medium Induction
Shallow FE



630

28°

640

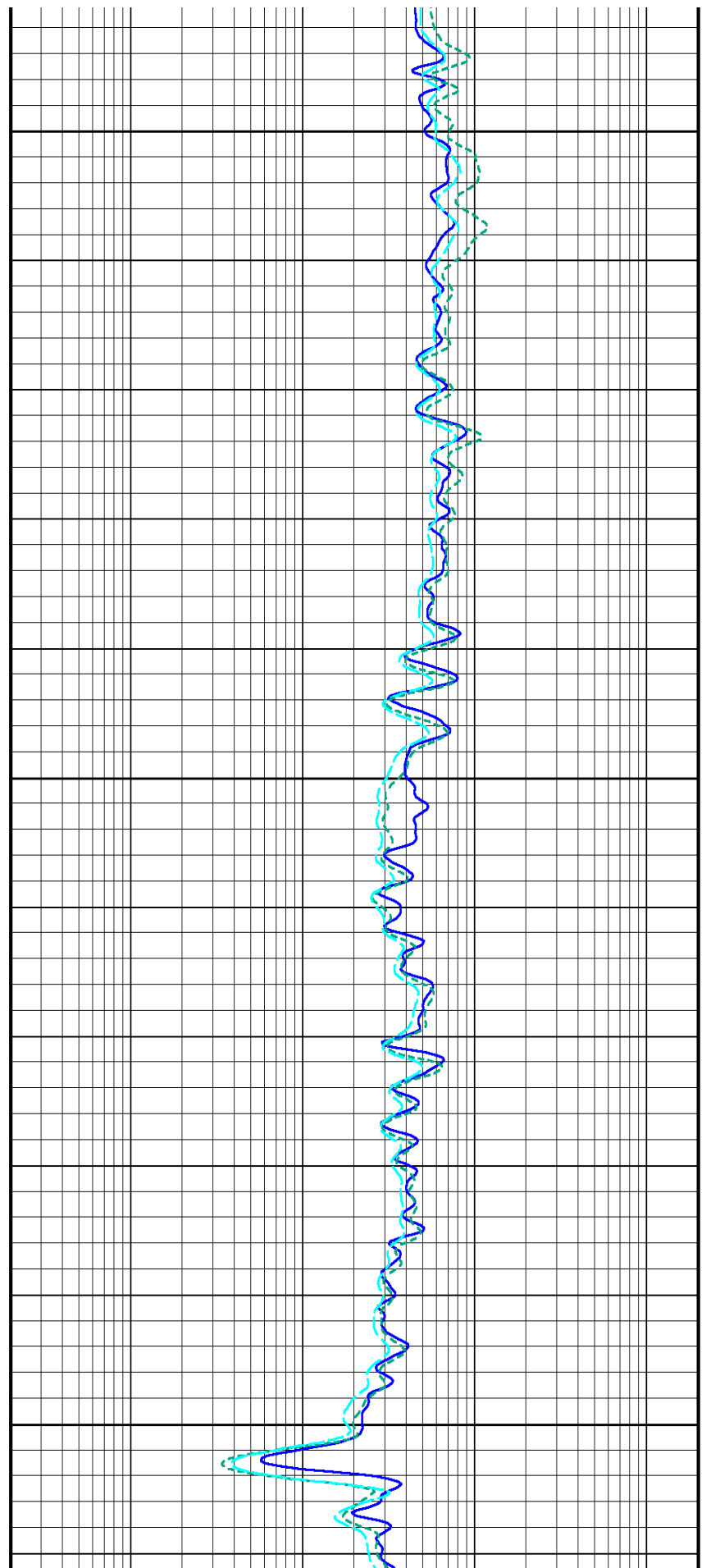
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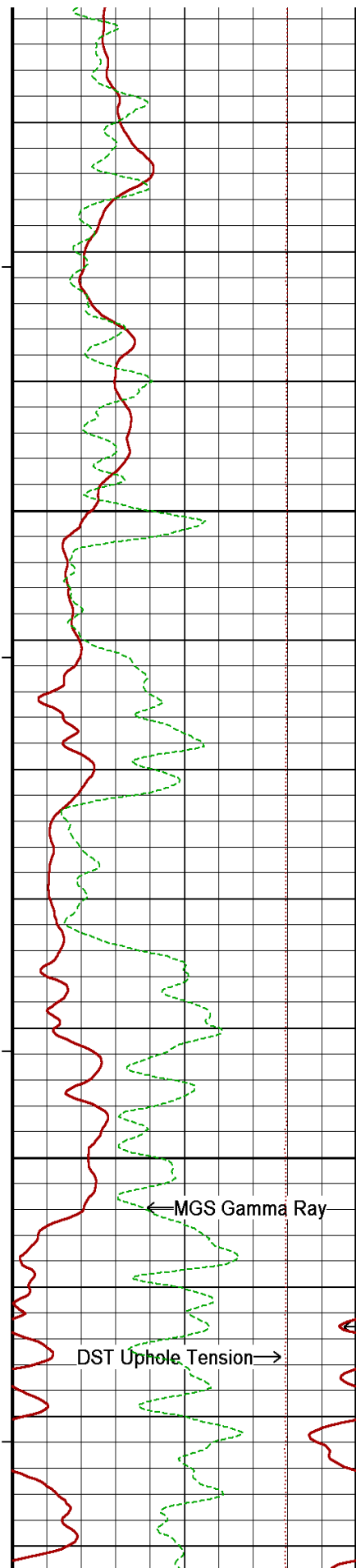
660

29°

670

680





29°

690

700

710

30°

720

730

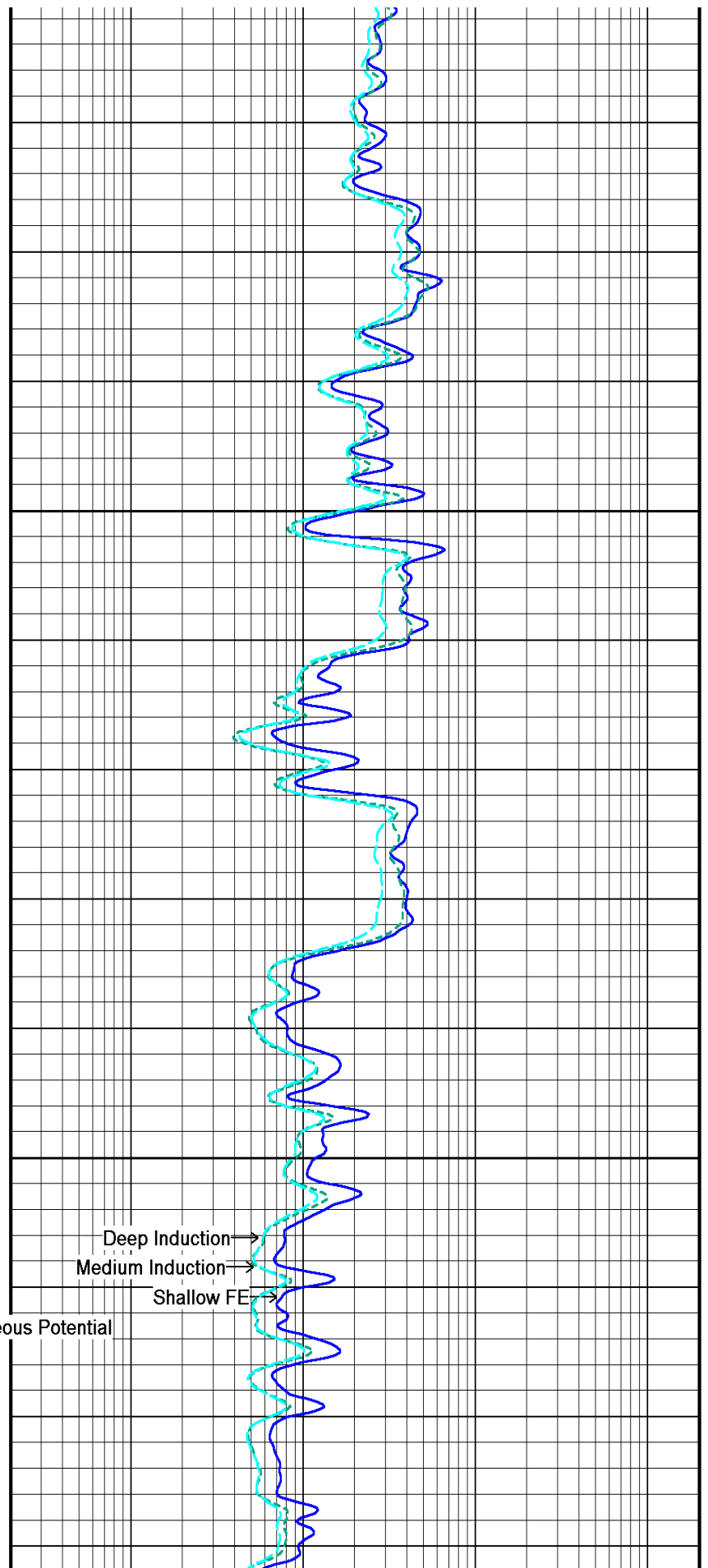
30°

740

← MGS Gamma Ray

DST Uphole Tension →

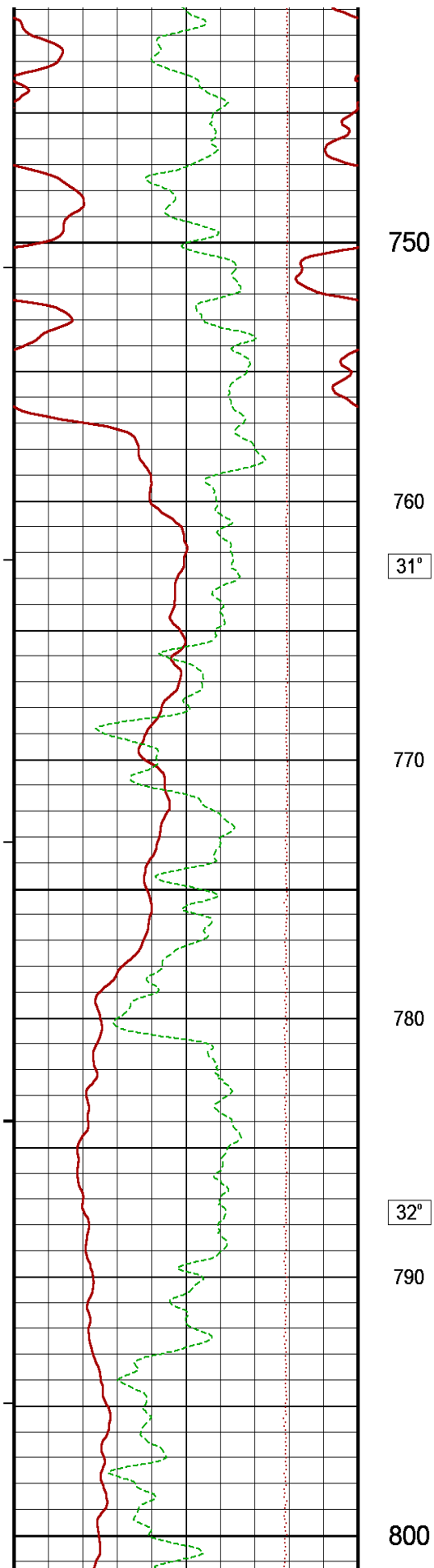
← Spontaneous Potential



Deep Induction →

Medium Induction →

Shallow FE →



750

760

31°

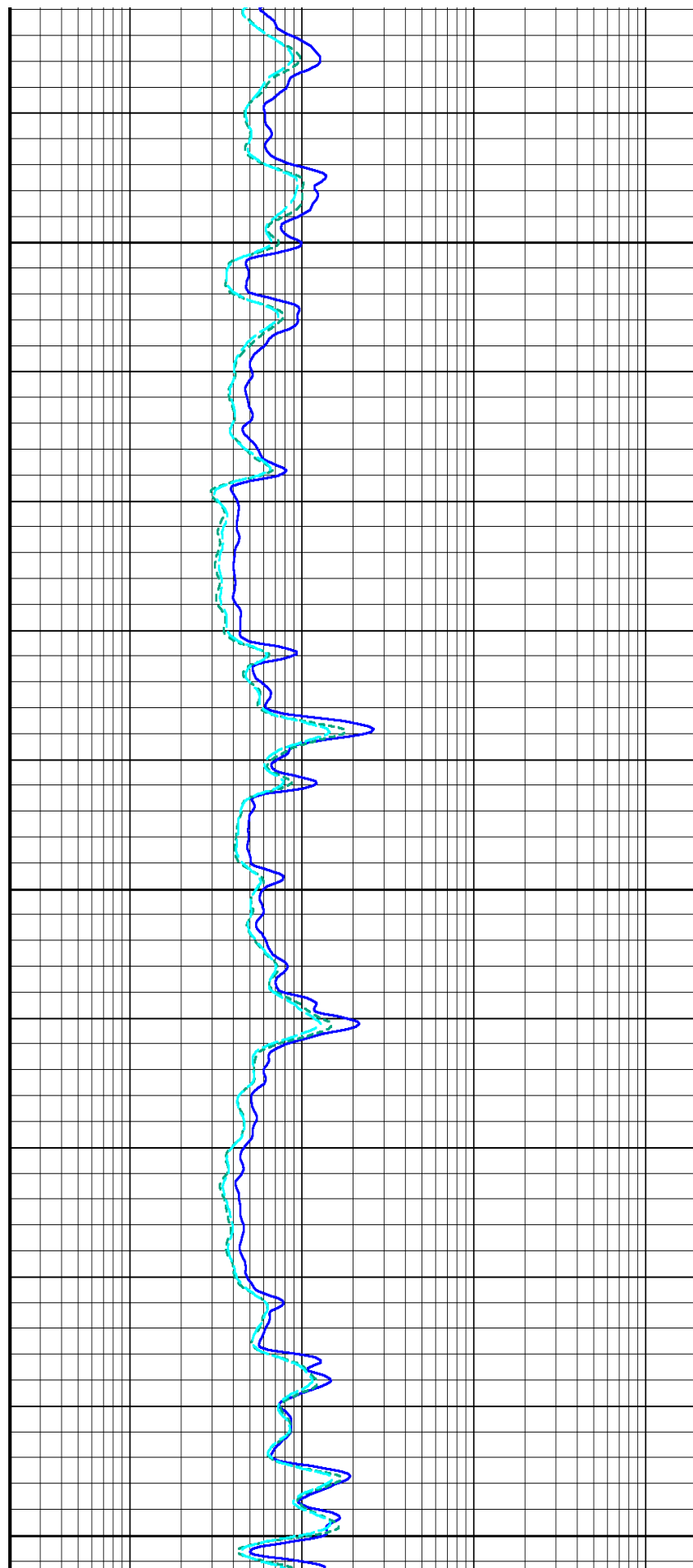
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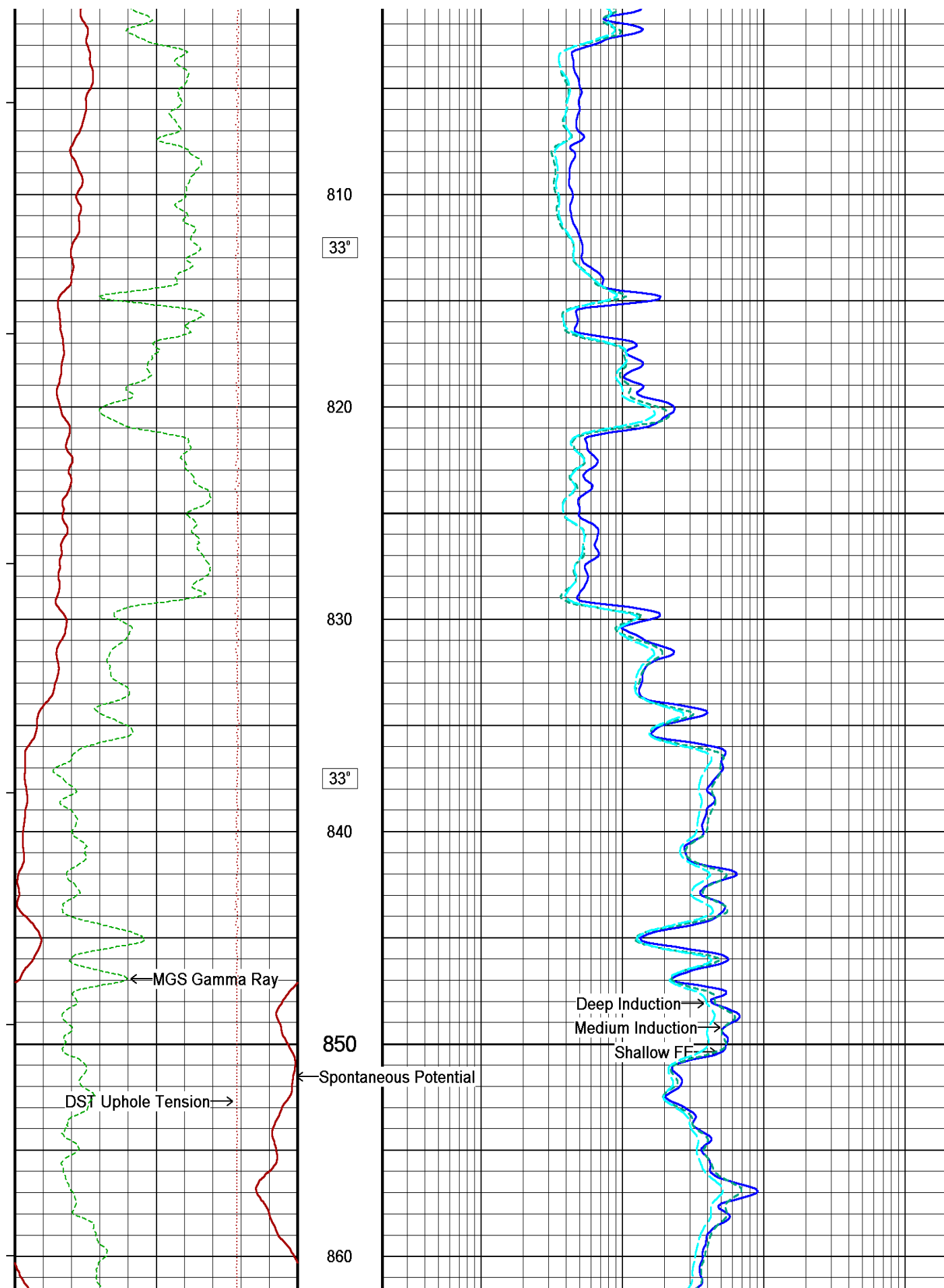
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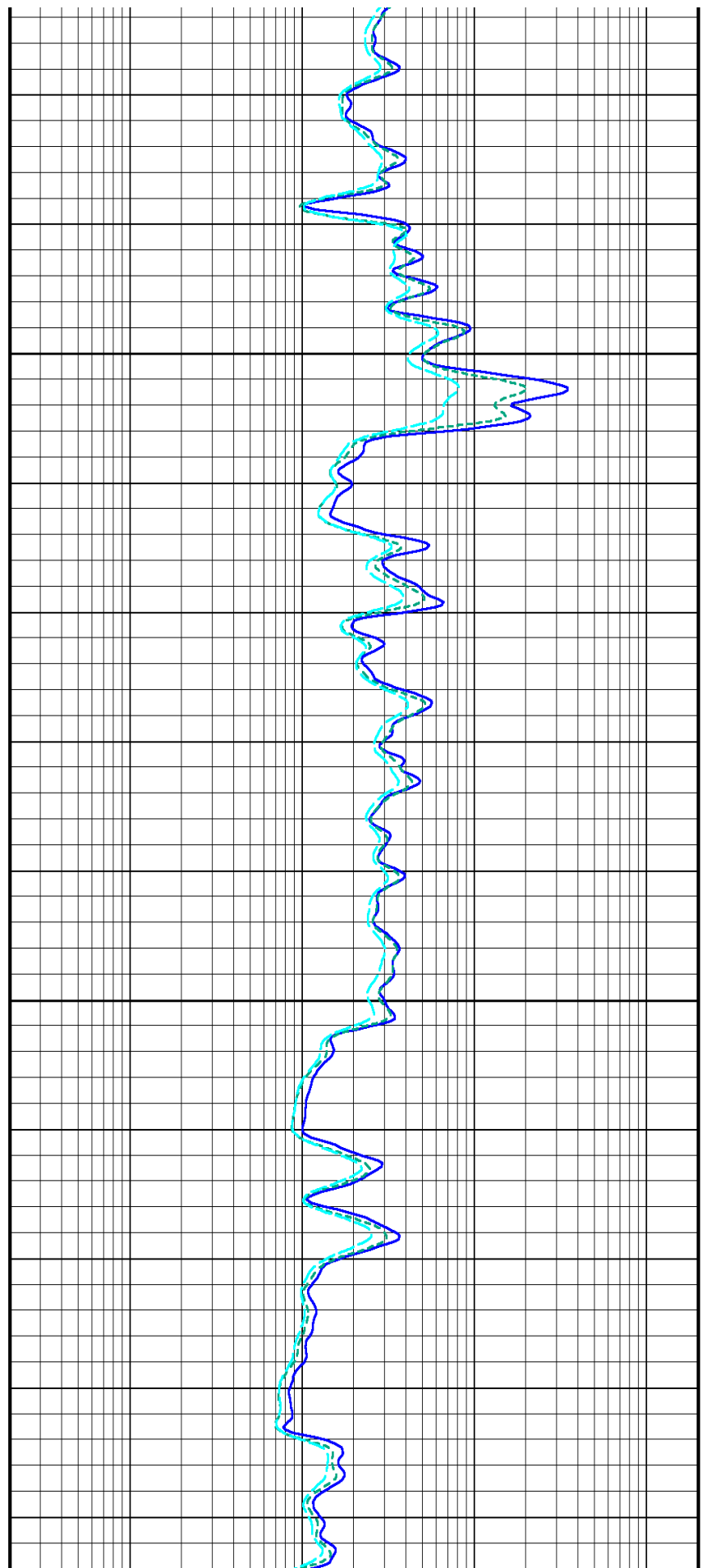
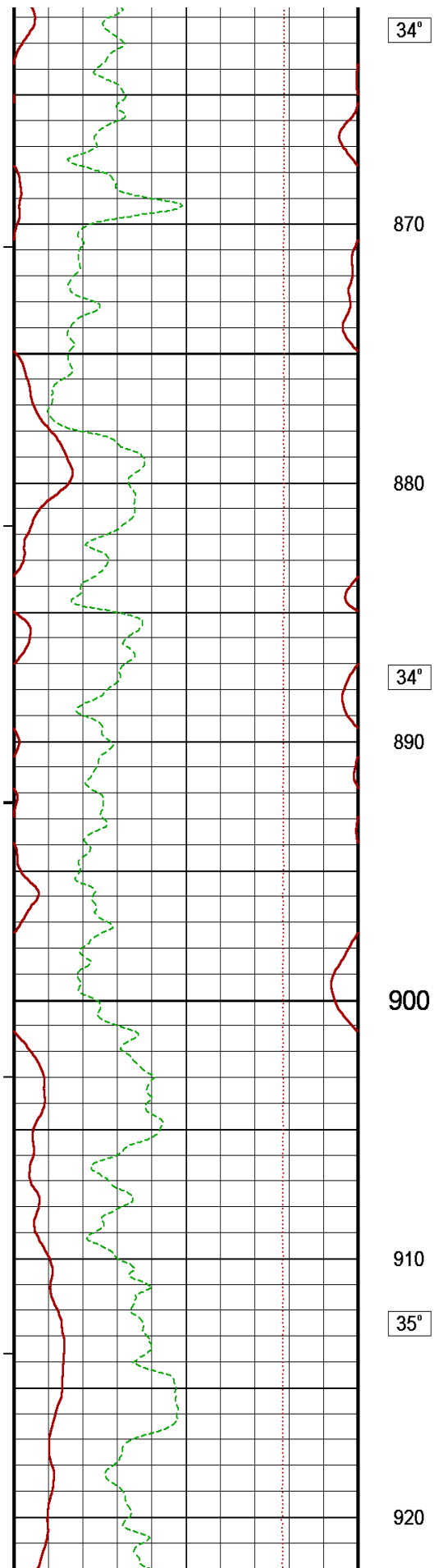
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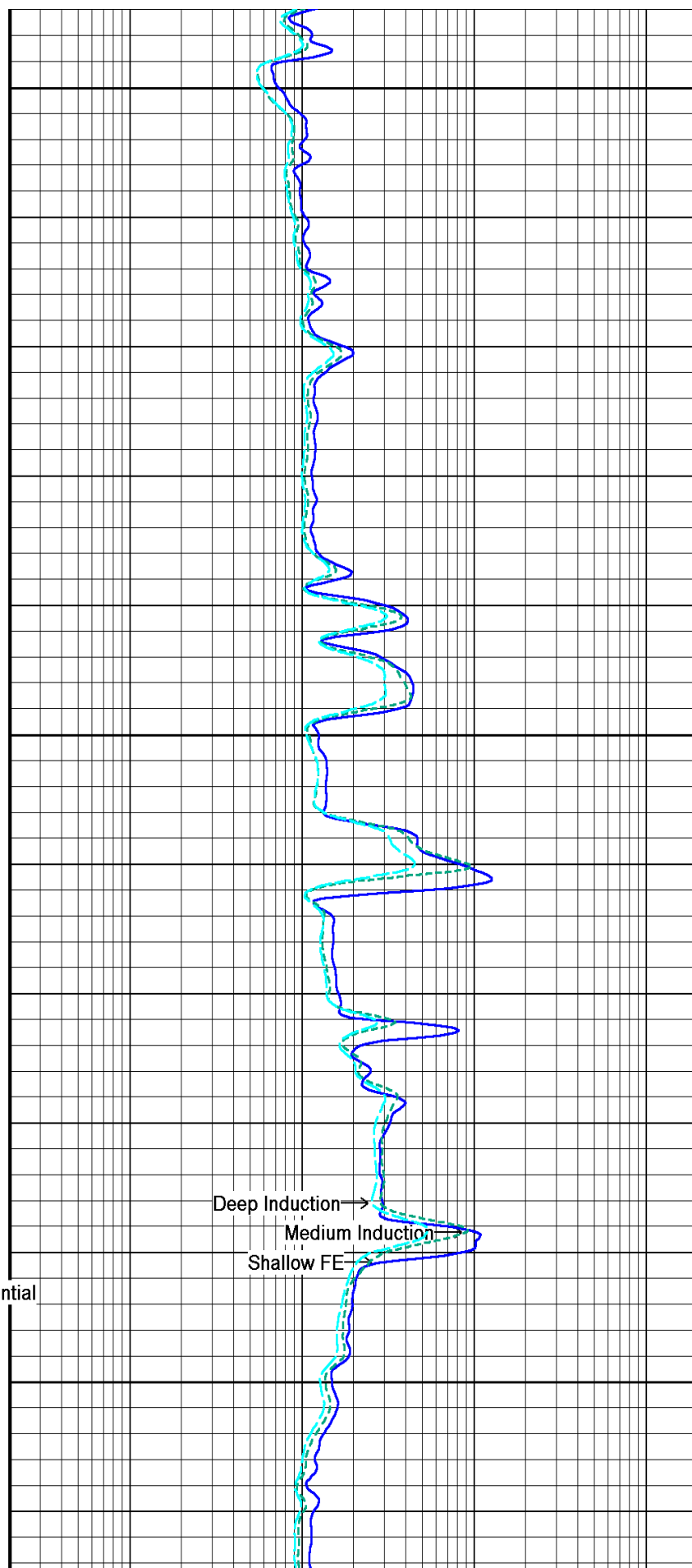
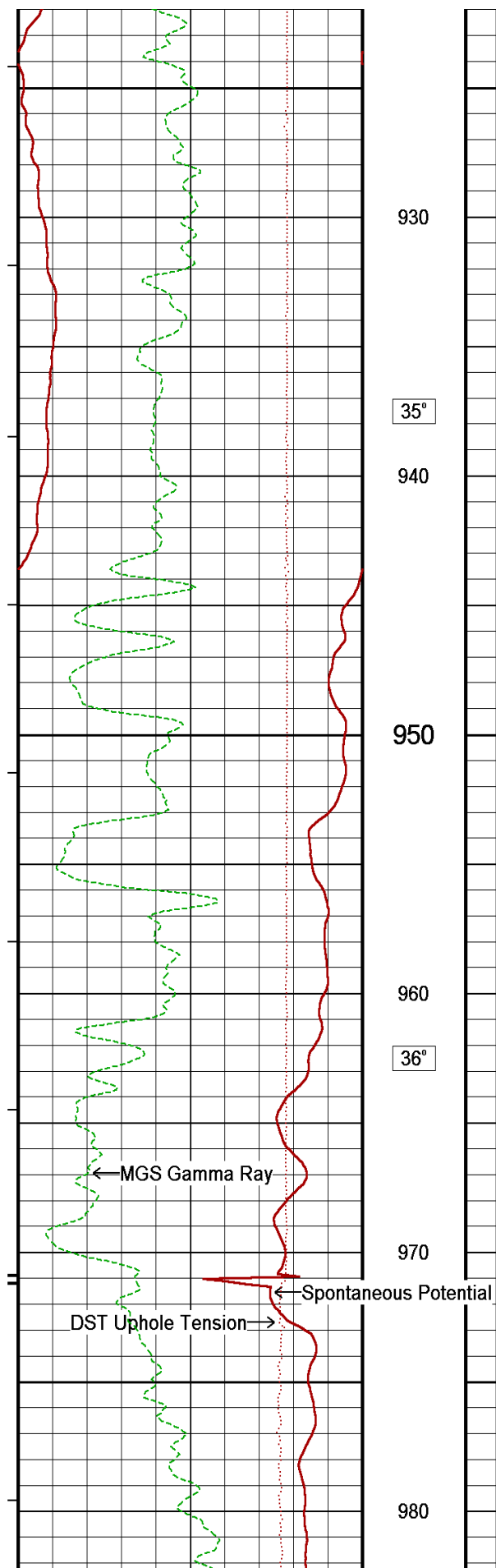
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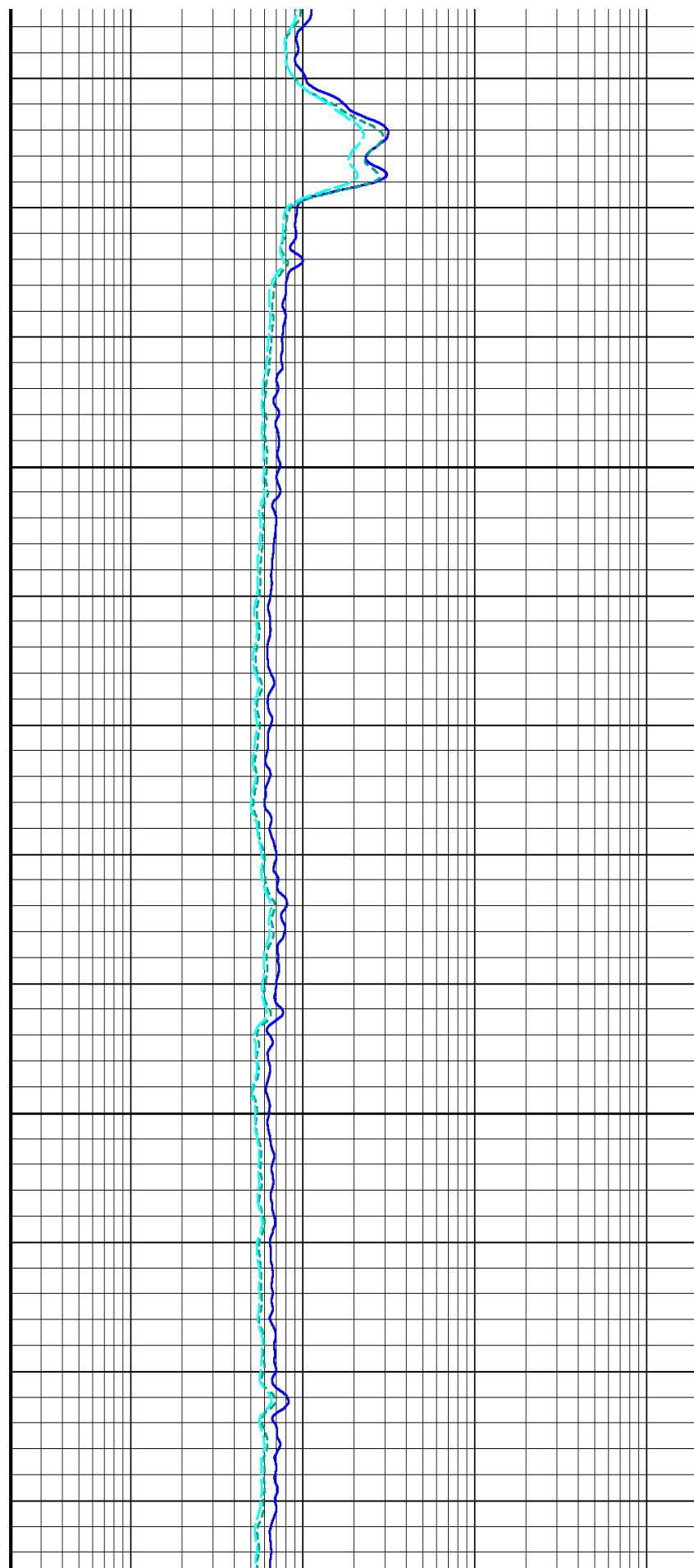
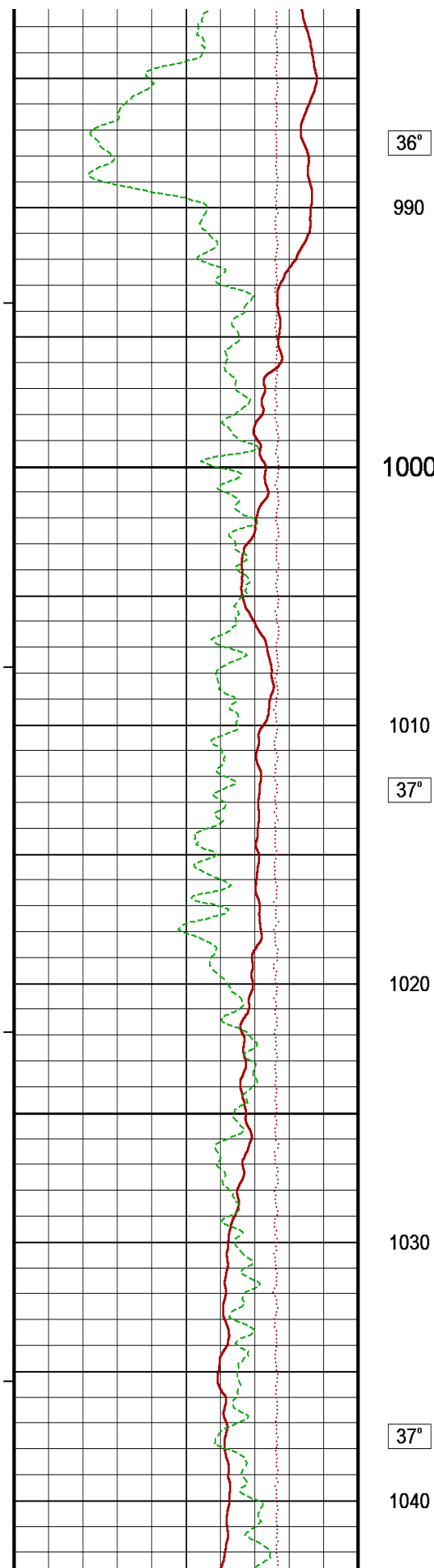
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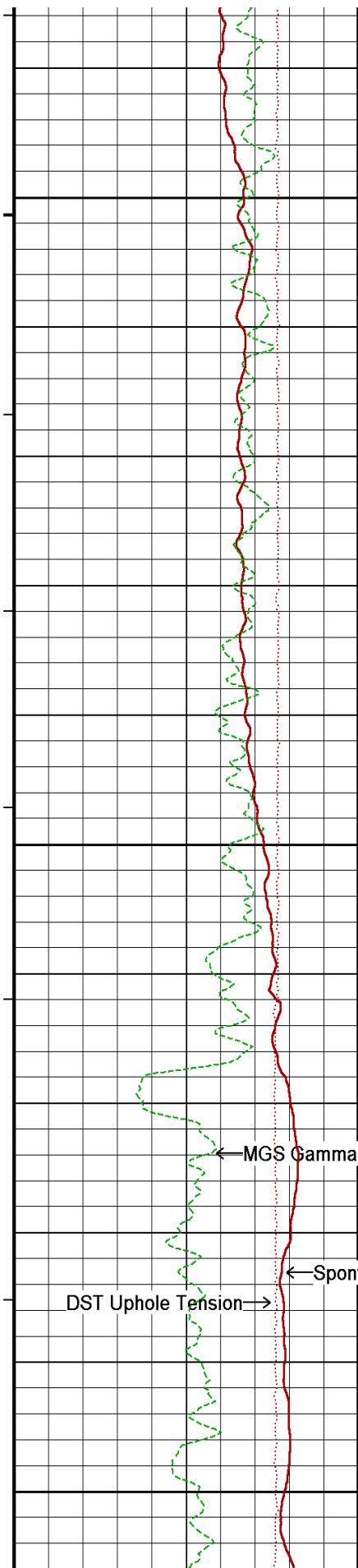












1050

1060

38°

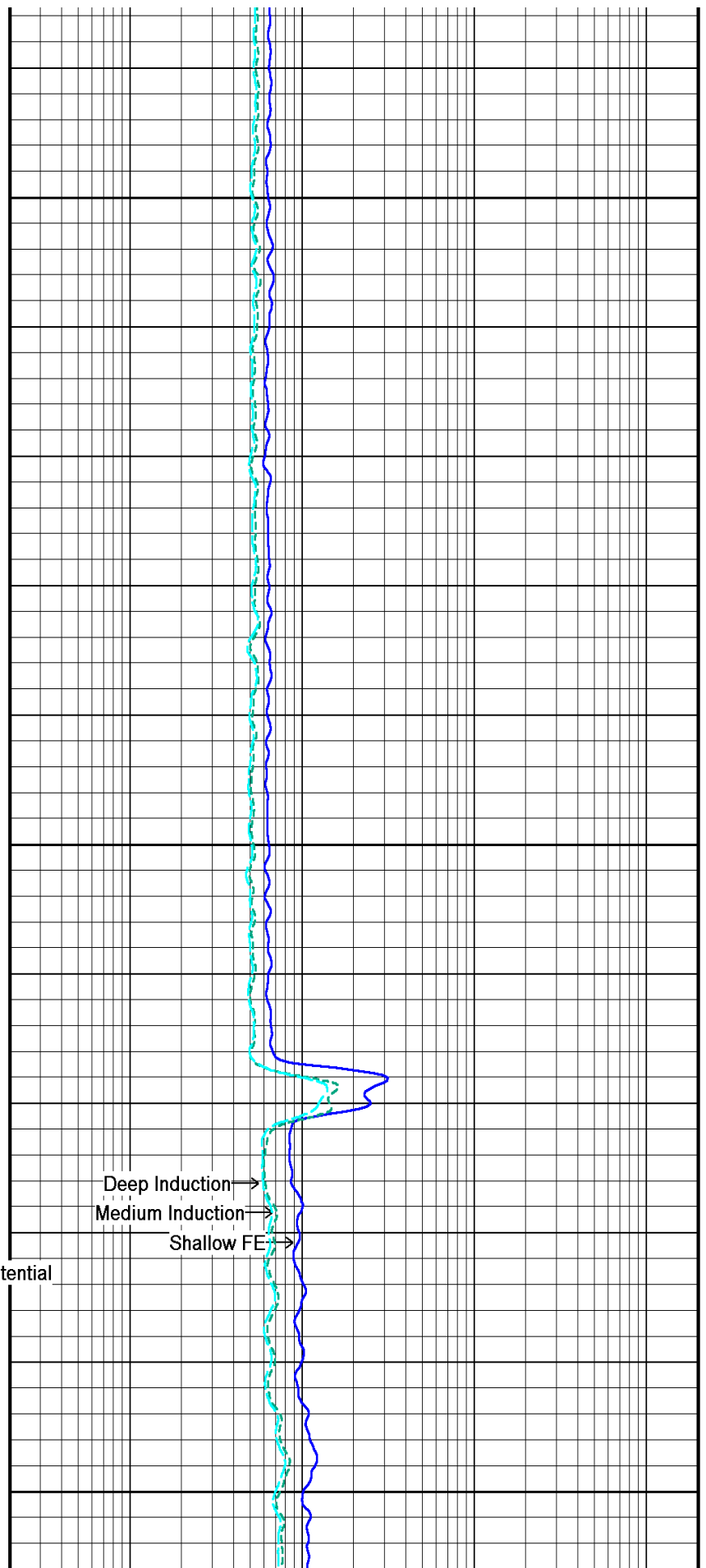
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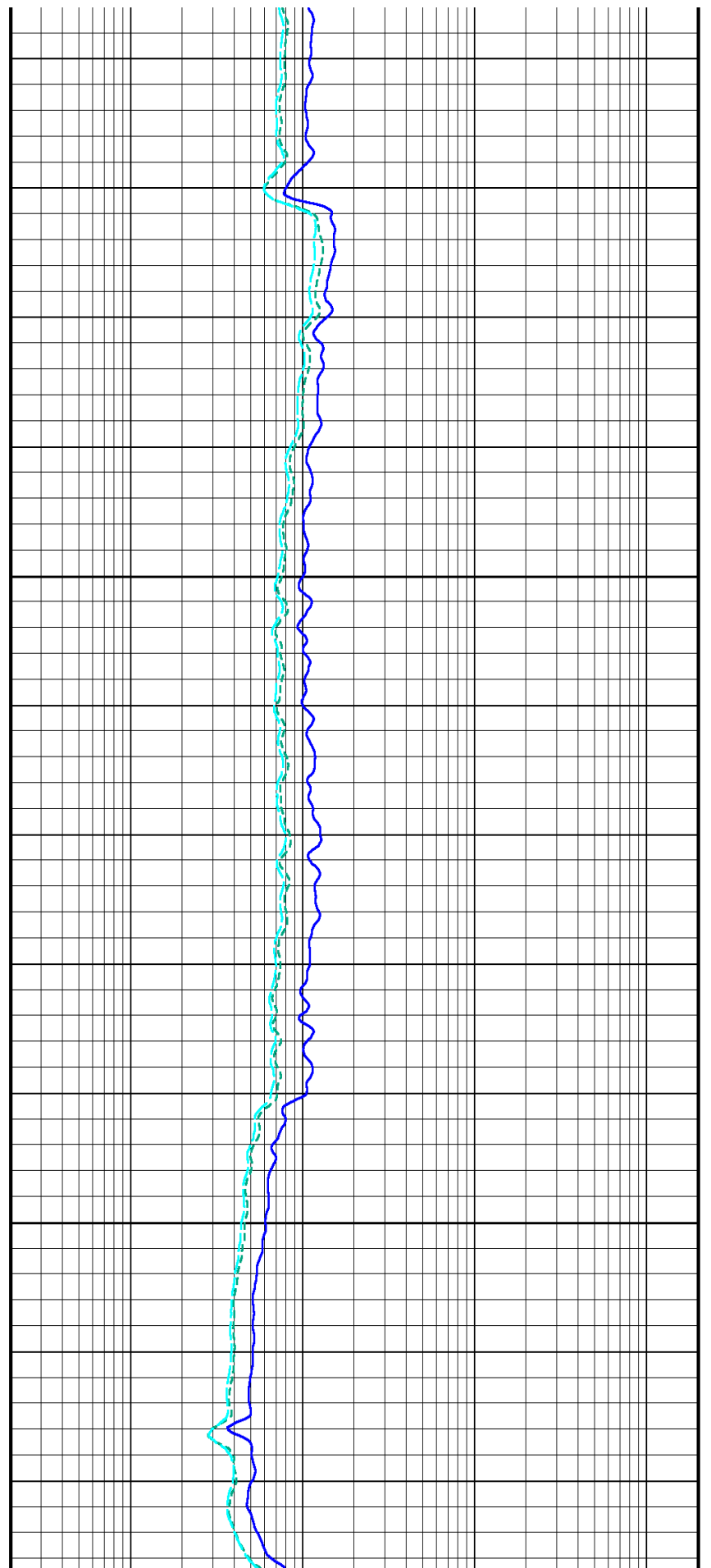
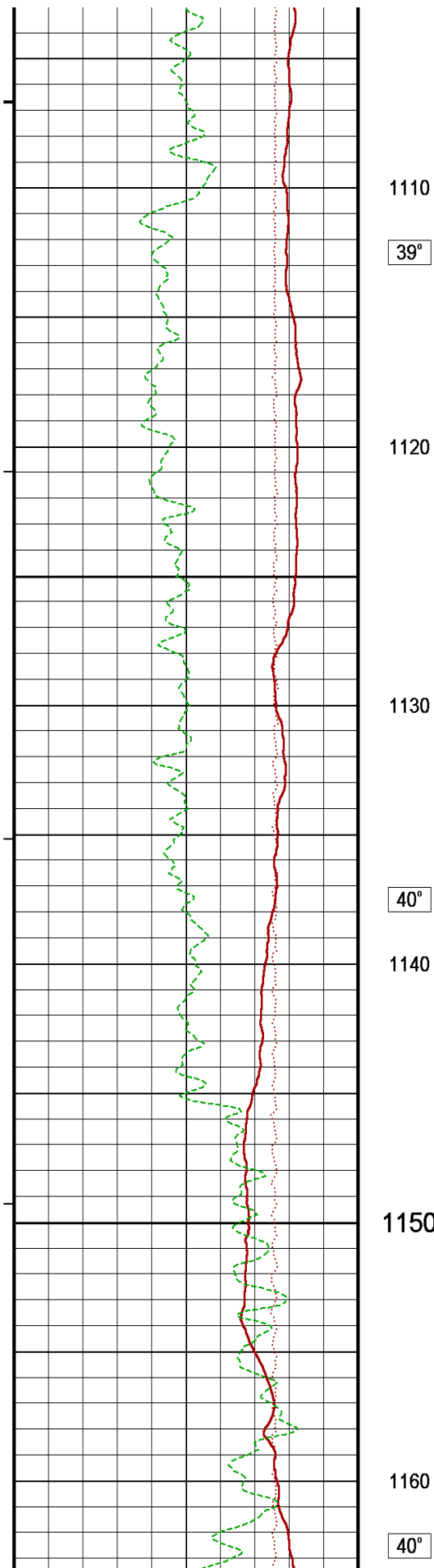
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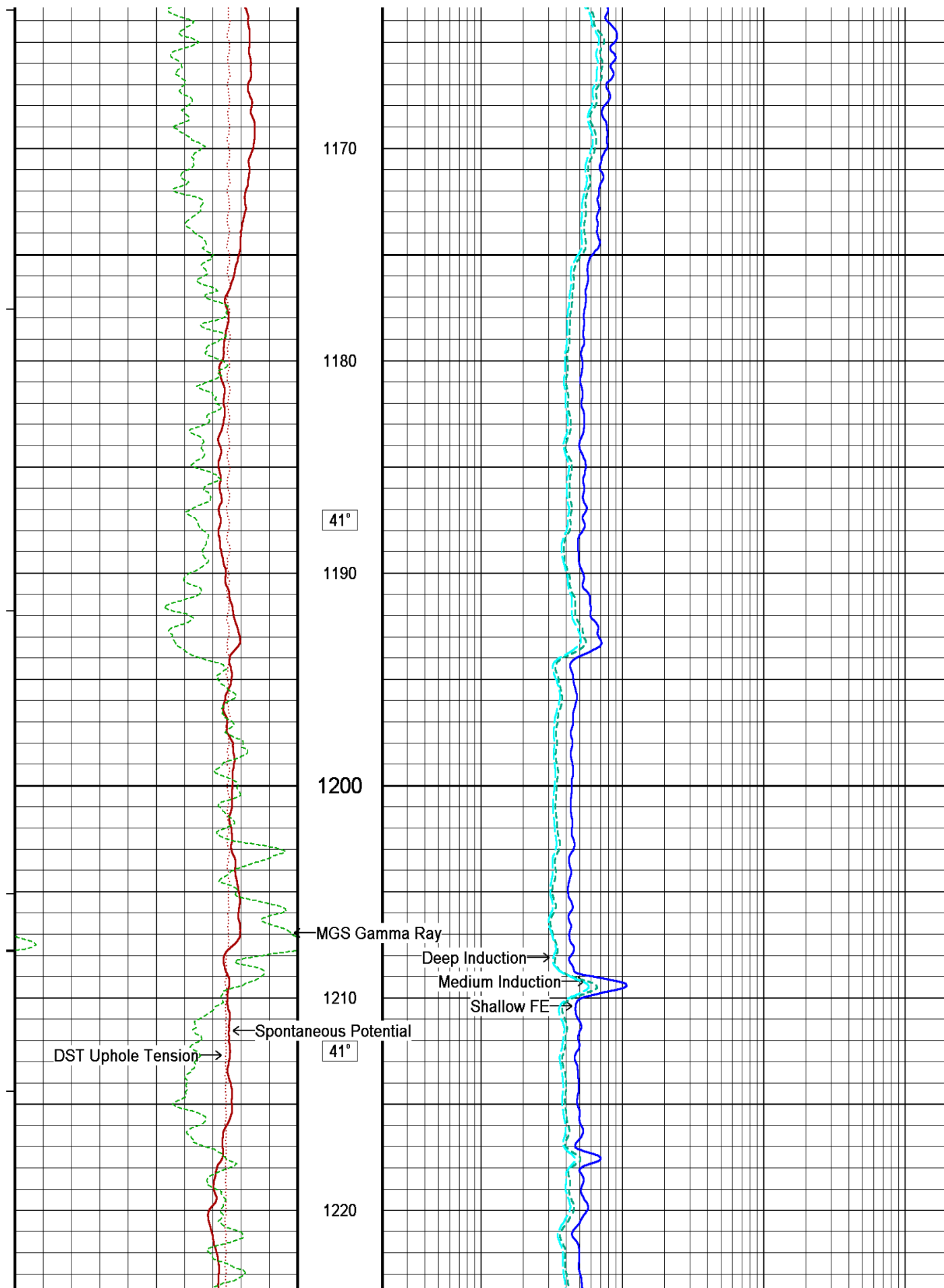
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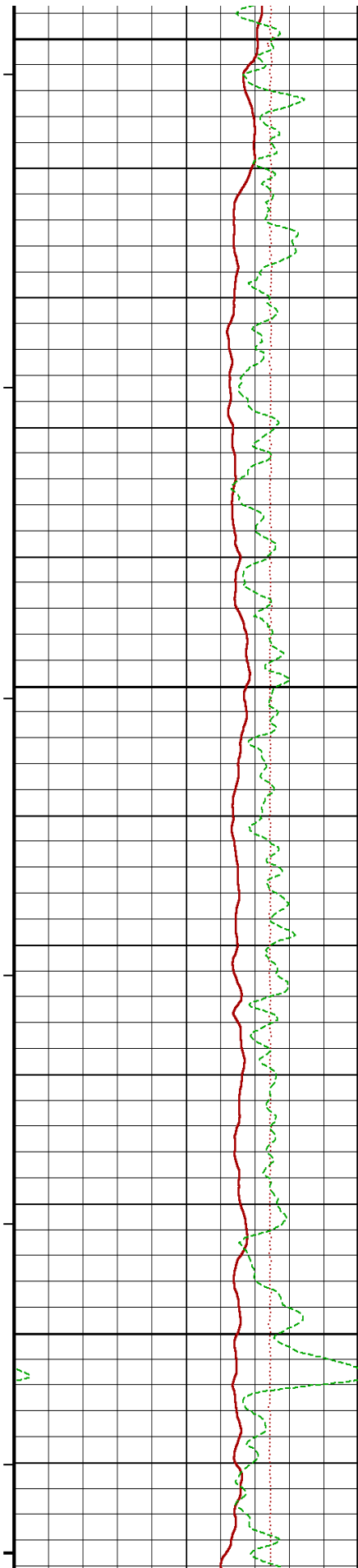
1090

1100









1230

42°

1240

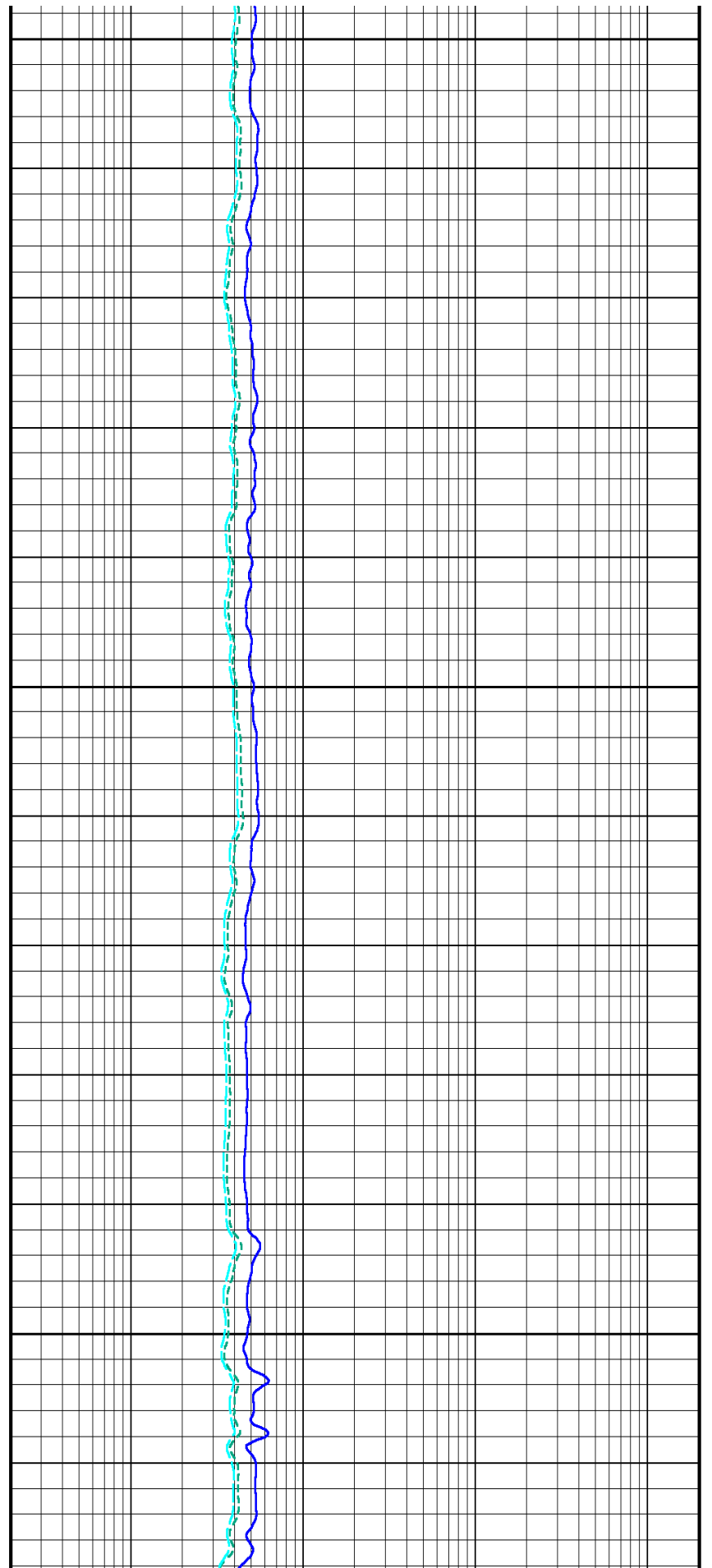
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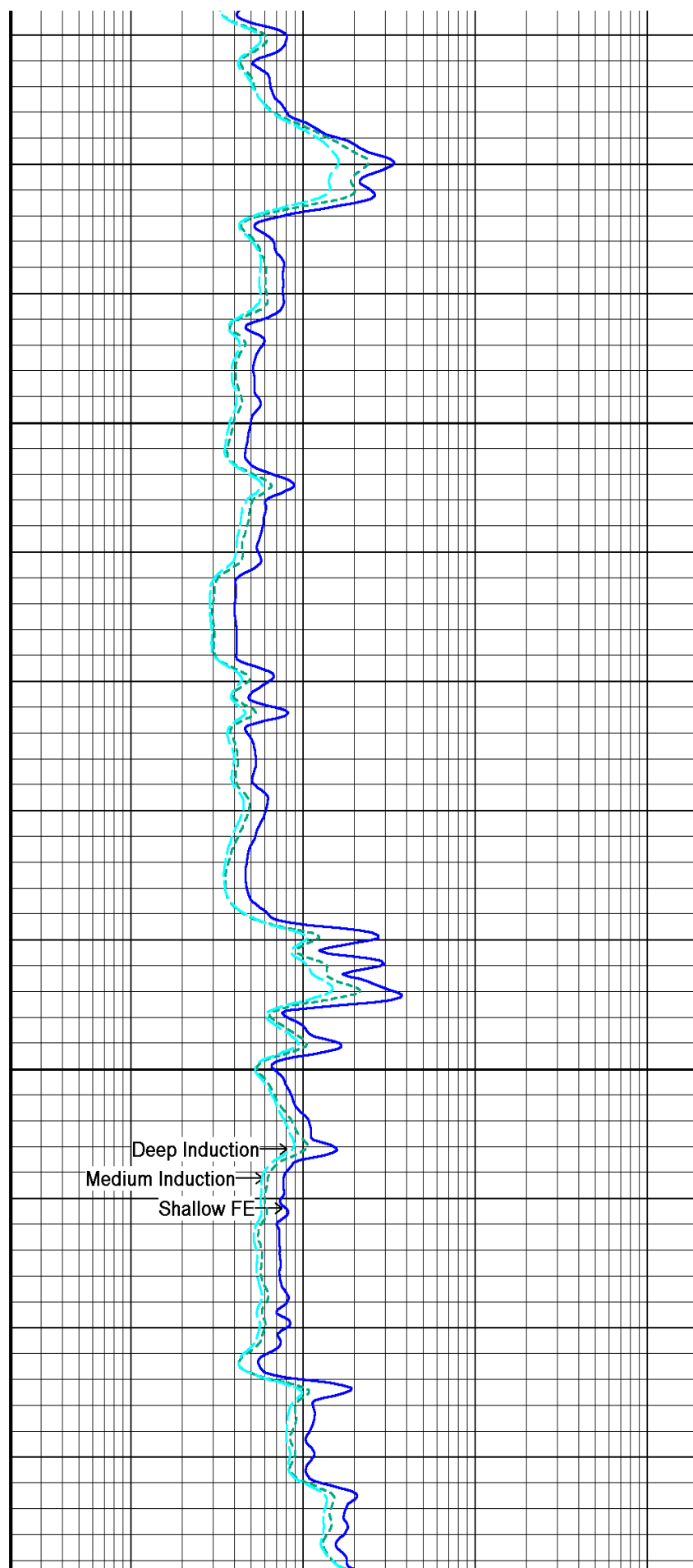
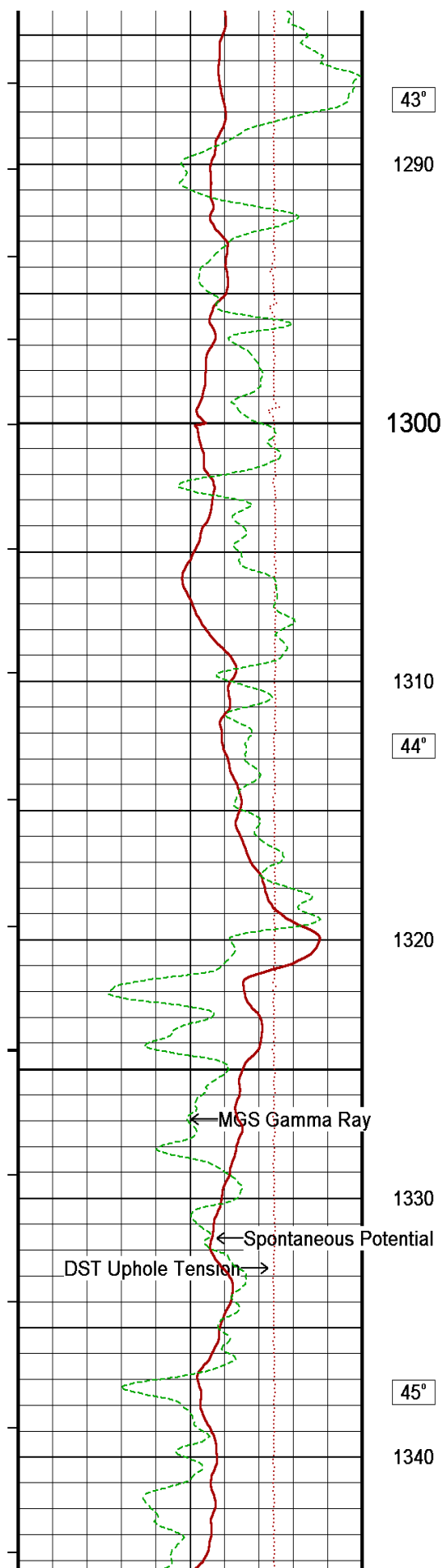
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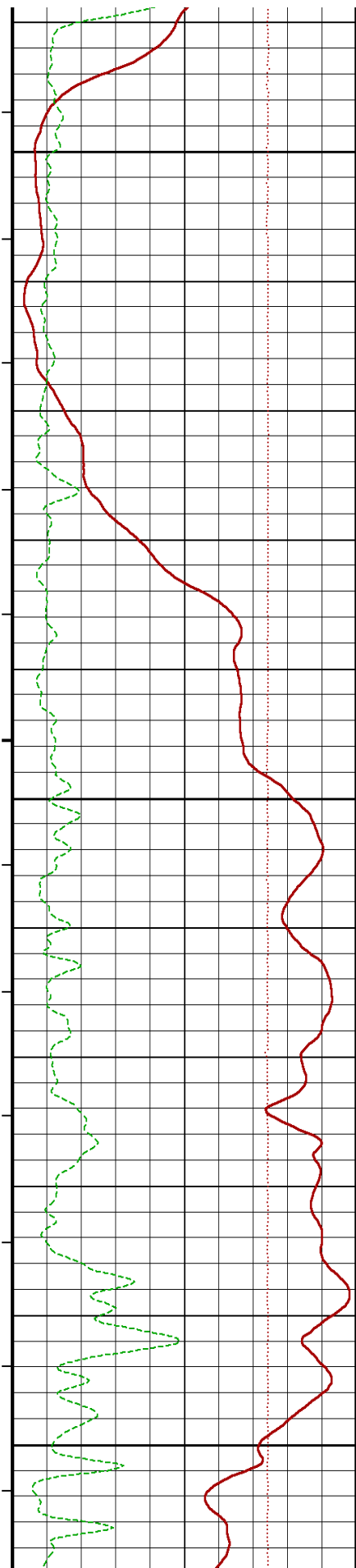
43°

1270

1280







1350

1360

45°

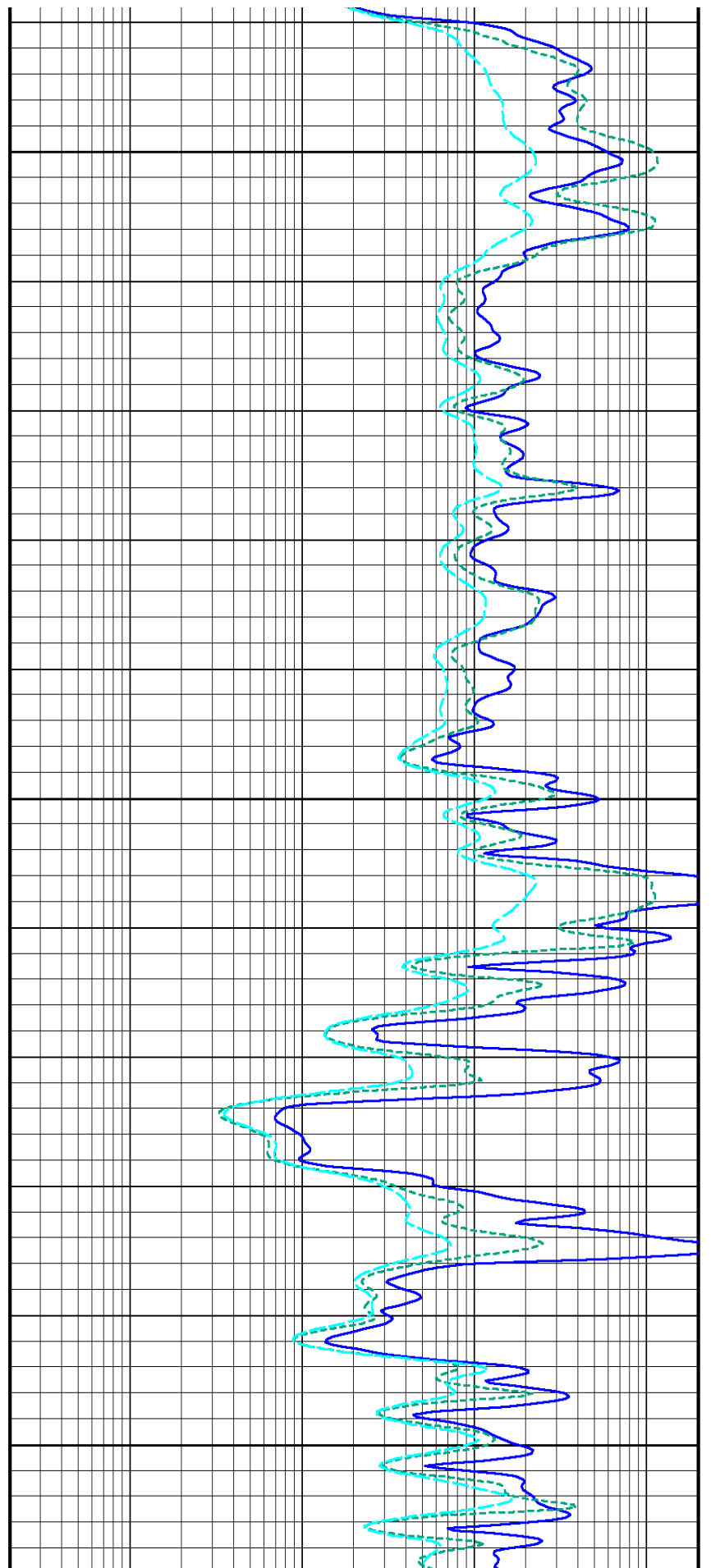
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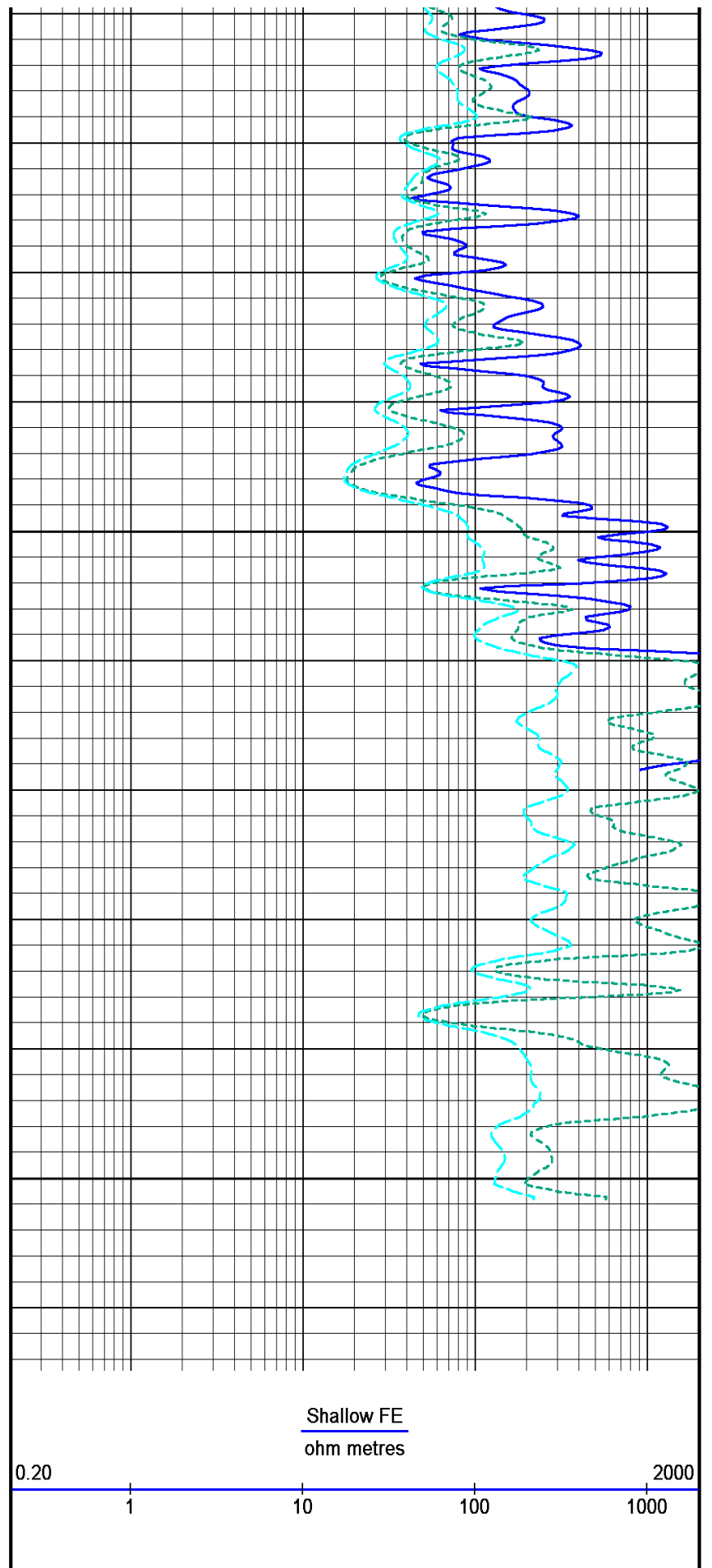
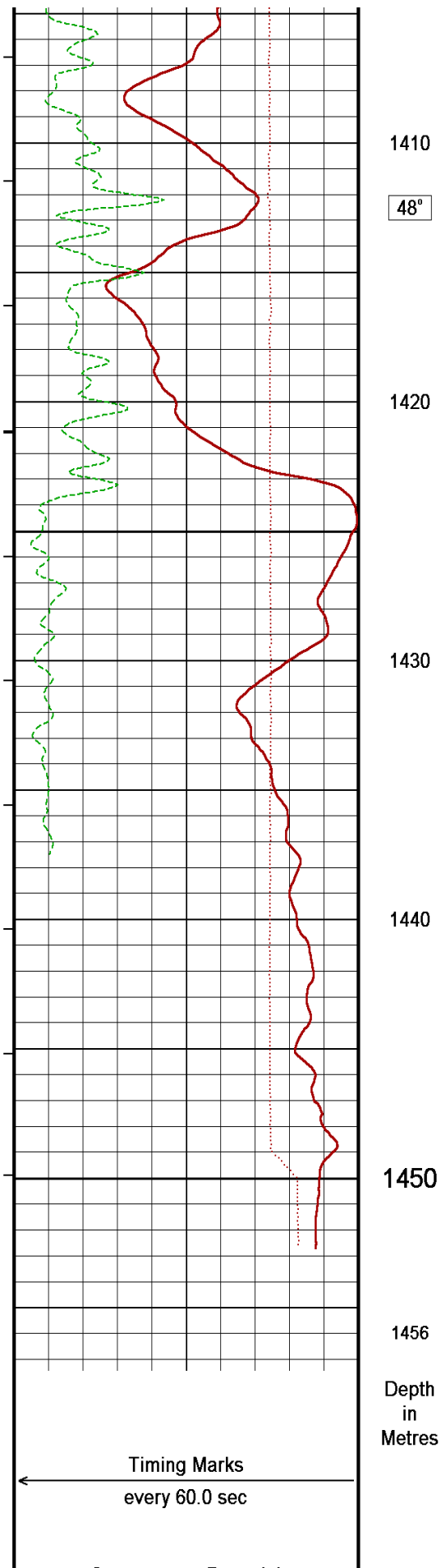
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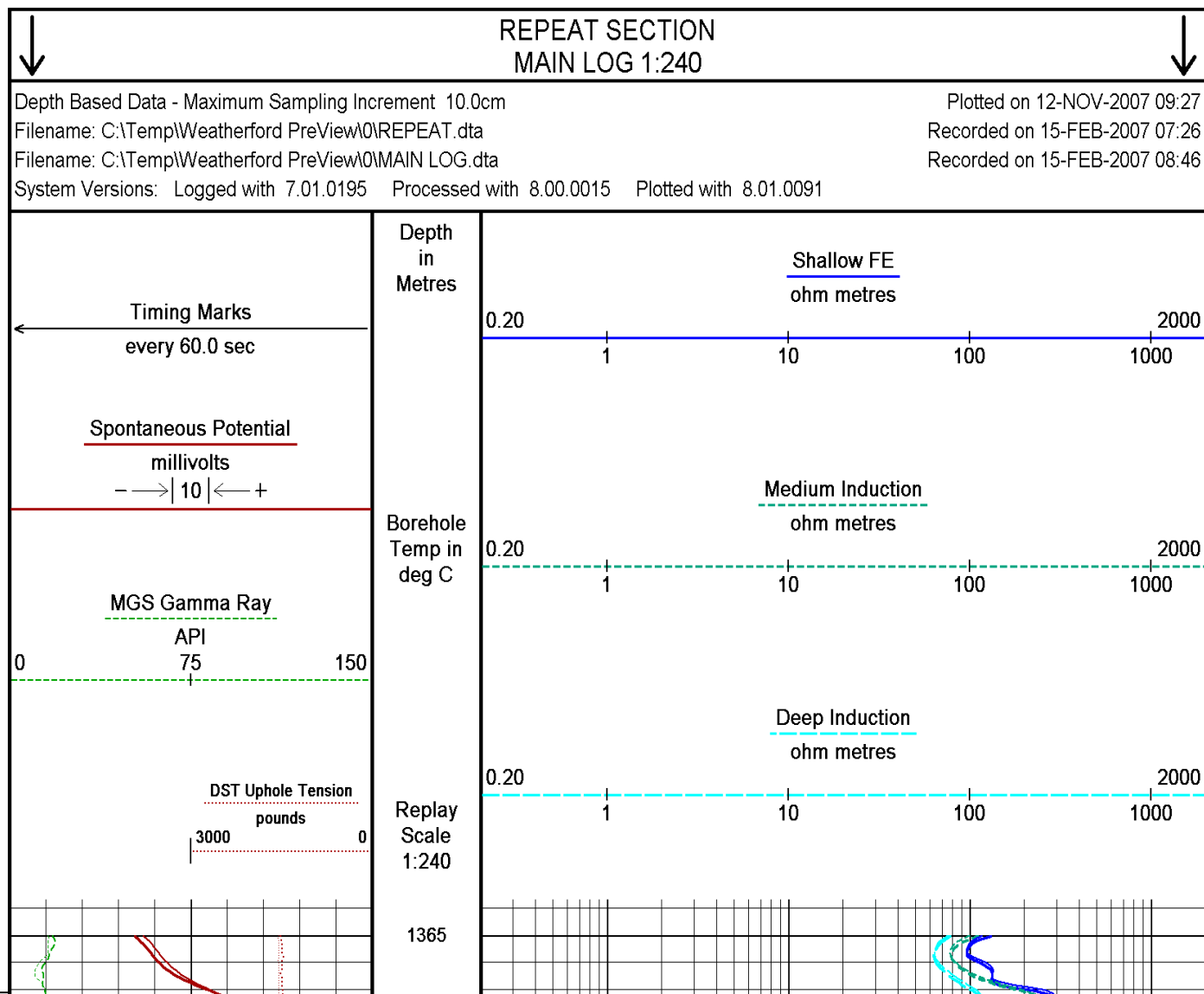
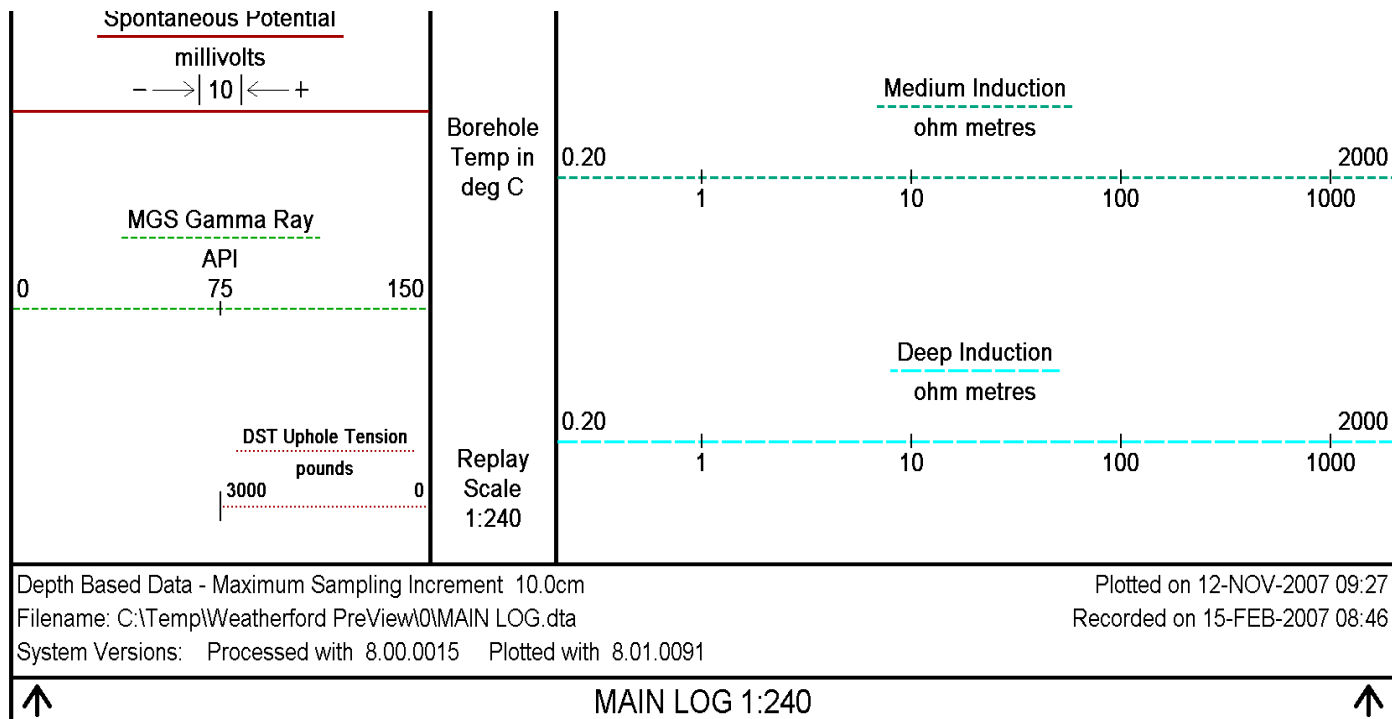
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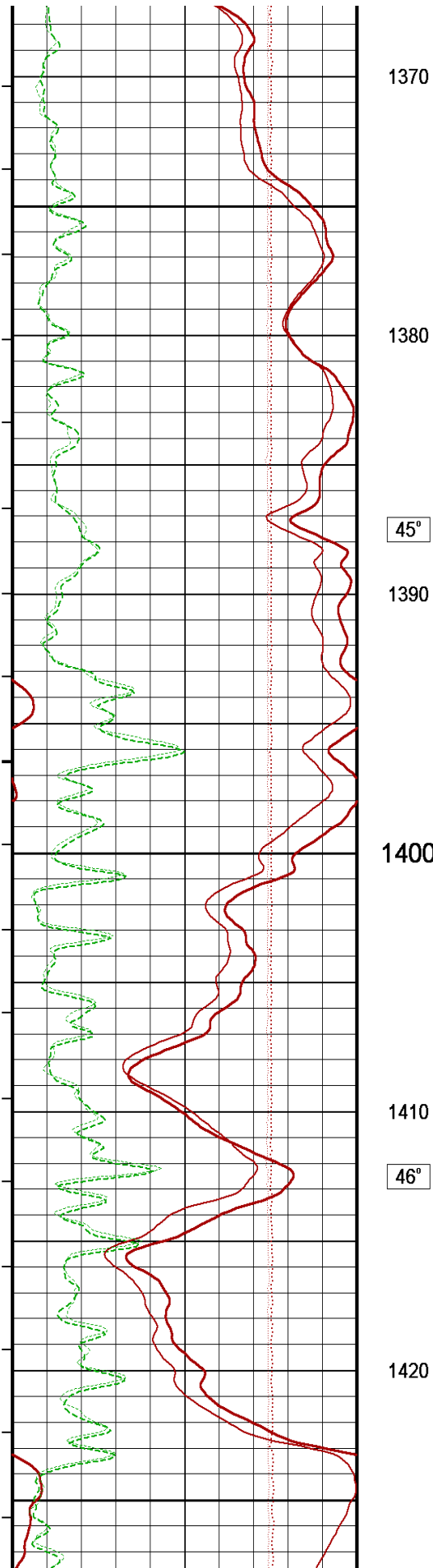
1390

1400









1370

1380

45°

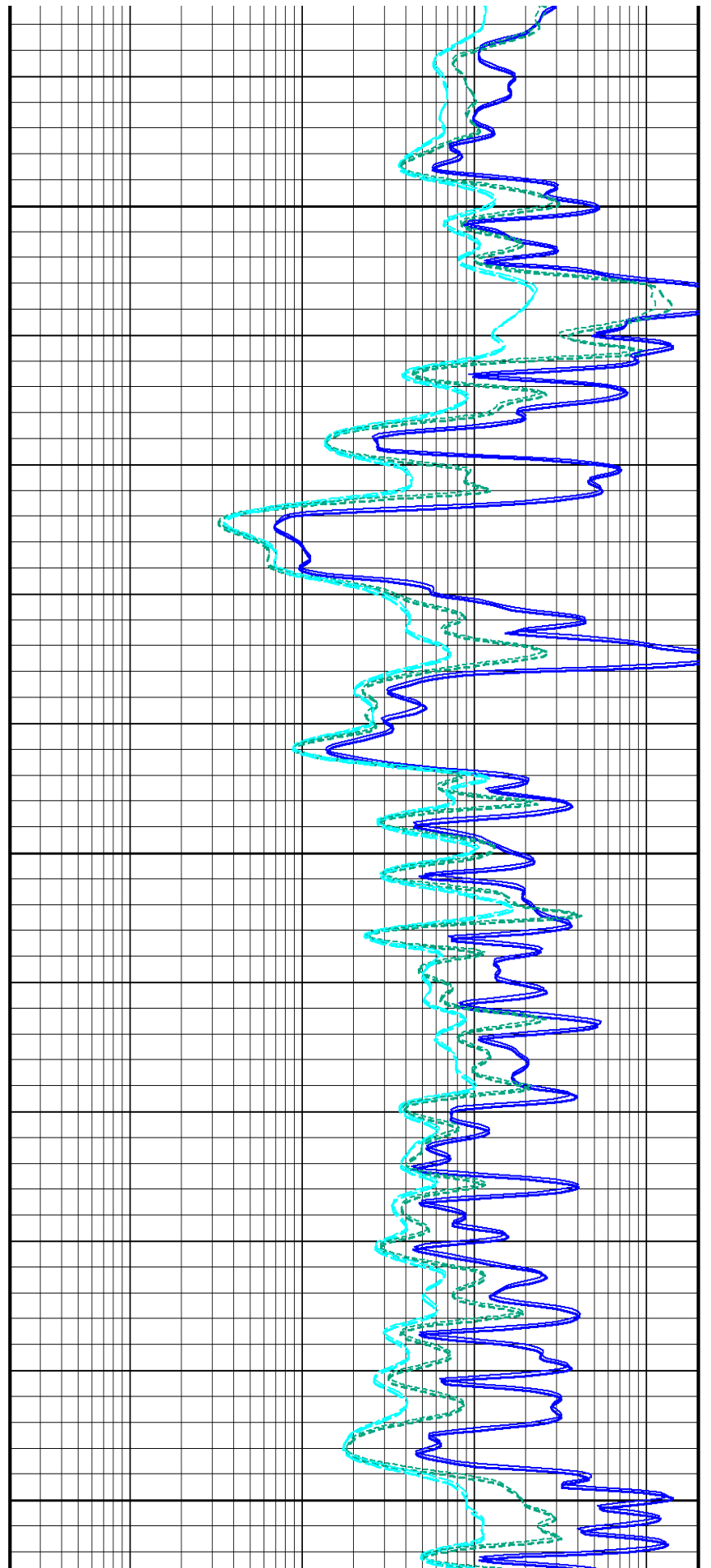
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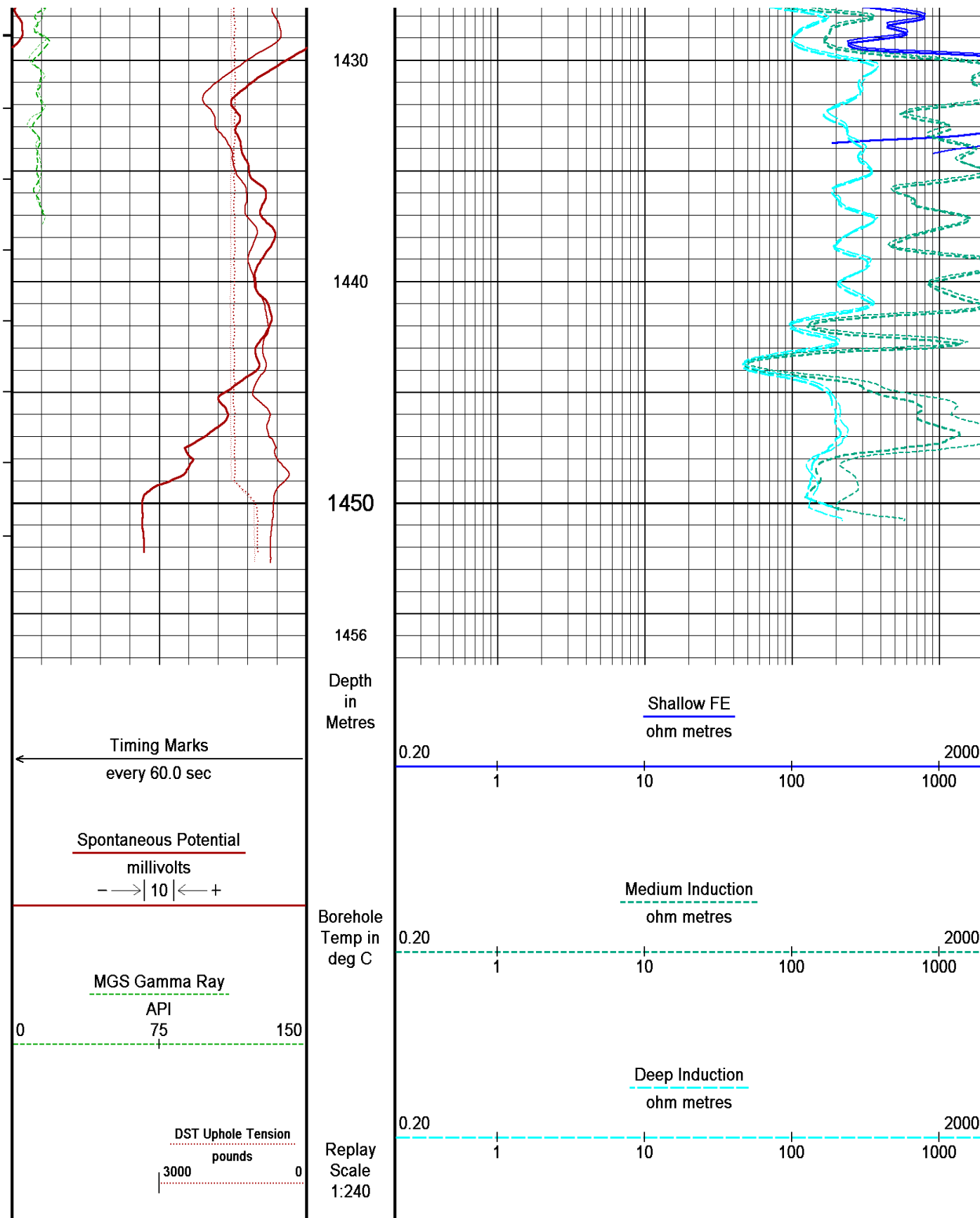
1400

1410

46°

1420





BEFORE SURVEY CALIBRATION

C:\Temp\Weatherford PreView\0\REPEAT.dta

General Constants All 000

Last Edited on 15-FEB-2007,06:48

General Parameters

Mud Resistivity	1.180	ohm-metres
Mud Resistivity Temperature	25.000	degrees C
Water Level	0.000	metres
Density/Neutron Processing	Wet Hole	

Hole/Annular Volume and Differential Caliper Parameters

HVOL Caliper 1	Density Caliper	
HVOL Caliper 2	Y Two Arm Caliper	
Annular Volume Diameter	139.700	mm
Caliper for Differential Caliper	Density Caliper	

Rwa Parameters

Porosity used	Base Density Porosity
Resistivity used	Deep Induction
RWA Constant A	0.610
RWA Constant M	2.150

High Resolution Temperature Calibration MCG 159

Field Calibration on 28-NOV-2006,15:40

	Measured	Calibrated(Deg C)
Lower	10.00	10.00
Upper	50.00	50.00

High Resolution Temperature Constants MCG 159

Last Edited on 28-NOV-2006,15:40

Pre-filter Length	11
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FE Calibration MFE 017

Base Calibration on 14-FEB-2007 07:09

Field Check on

Base Calibration

	Measured	Calibrated (ohm-m)
Reference 1	0.0	0.0
Reference 2	971.4	126.8
Base Check		279.4
Field Check		0.0

FE Constants MFE 017

Last Edited on 15-FEB-2007,04:52

Caliper Source for FE correction	Density Caliper
Rm Source for FE correction	Temperature Corr
Temp. for Rm Corr.	MCG External Temperature
Stand-off	Centred
	millimetres

Gamma Calibration MGS 010

Field Calibration on 7-FEB-2007,09:09

	Measured	Calibrated (API)
Background	48	31
Calibrator (Gross)	1256	825
Calibrator (Net)	1208	794

Gamma Constants MGS 010

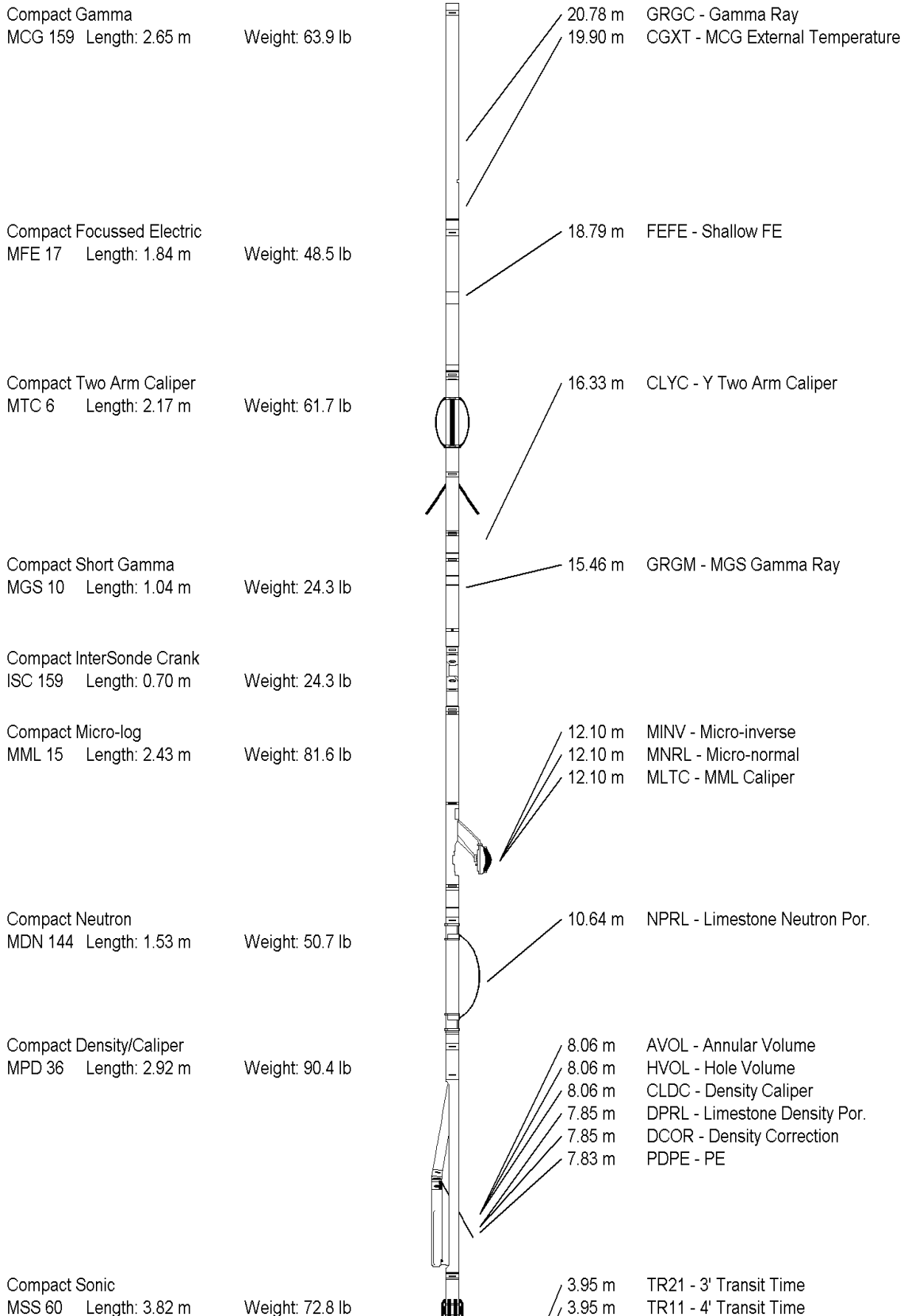
Last Edited on 15-FEB-2007,06:48

Gamma Calibrator Number	grcc075
-------------------------	---------

Mud Density	1060.00	kg/m3
Caliper Source for Processing	Density Caliper	
Tool Position	Centred	
Concentration of KCl	0.00	kppm
Induction Calibration MAI 072		Base Calibration on 25-JAN-2007,18:16 Field Check on 12-FEB-2007 04:15
Base Calibration		
Test Loop Calibration	Measured	Calibrated (mmho/m)
Channel	Low High	Low High
1	13.9 459.6	9.3 966.2
2	5.3 373.2	7.6 821.4
3	2.9 254.1	5.2 566.0
4	1.3 130.4	2.6 279.2
Array Temperature	18.5	Deg C
Channel	Base Check (mmho/m)	Field Check (mmho/m)
	Low High	Low High
1	18.0 3925.2	20.2 3926.2
2	31.0 3598.6	32.7 3599.2
3	29.0 3101.3	30.3 3102.2
4	20.3 2105.9	21.3 2106.6
Deep	18.4 2019.9	19.4 2021.1
Medium	40.9 4089.6	42.6 4090.6
Shallow	45.6 5324.4	48.1 5324.5
Array Temperature	18.5	22.2 Deg C
Induction Constants MAI 072		Last Edited on 7-FEB-2007,09:11
Induction Model	VECTAR	
Caliper for Borehole Corr.	Y Two Arm Caliper	
Hole Size for Borehole Correction	N/A	millimetres
Stand-off	25.40	millimetres
Number of Fins on Stand-off	5.0000	
Stand-off Fin Width	25.4000	millimetres
Borehole Corr. Rm Source	Temperature Corr	
Temp. for Rm Corr.	MCG External Temperature	
Squasher Start	0.0020	mhos/metre
Borehole Normalisation		
DRM1	0.0000	DRC1 0.0000
DRM2	0.0000	DRC2 0.0000
MRM1	0.0000	MRC1 0.0000
MRM2	0.0000	MRC2 0.0000
SRM1	0.0000	SRC1 0.0000
SRM2	0.0000	SRC2 0.0000
Calibration Site Corrections		
Channel 1	0.00	mmhos/metre
Channel 2	0.00	mmhos/metre
Channel 3	0.00	mmhos/metre
Channel 4	0.00	mmhos/metre
Apparent Porosity and Water Saturation Constants		
Archie Constant (A)	1.00	
Cementation Exponent (M)	2.00	
Saturation Exponent (N)	2.00	
Saturation of Water for Apor	100.00	percent
Resistivity of Water for Apor and Sw	0.05	ohm-m
Resistivity of Mud Filtrate for Sw	0.00	ohm-m

DOWNHOLE EQUIPMENT

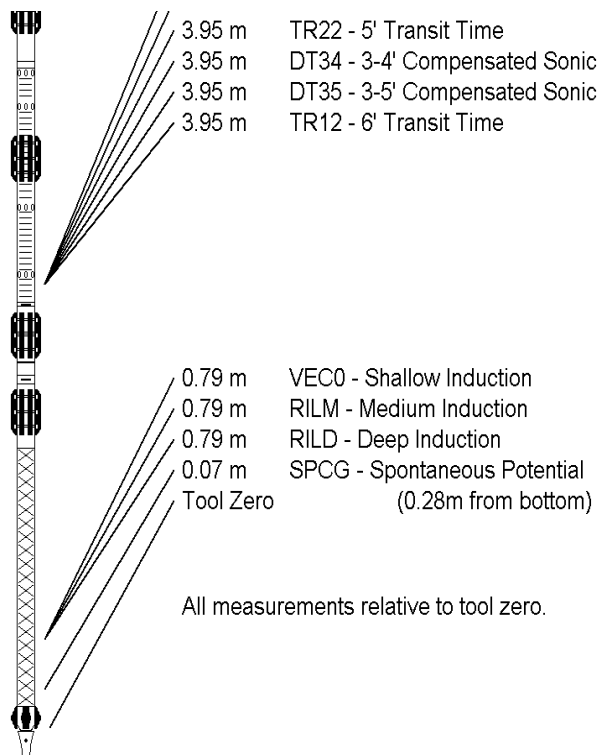
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Compact Induction
MAI 72 Length: 3.29 m Weight: 48.5 lb

Compact Hole Finder
HFS 1 Length: 0.24 m Weight: 2.2 lb

Total Length: 22.63 m Weight: 568.8 lb



COMPANY	PARAMOUNT RESOURCES LTD.
WELL	PARAMOUNT ET AL CAMERON J-04
FIELD	CAMERON HILLS
PROVINCE/COUNTY	NORTH WEST TERRITORIES
COUNTRY/STATE	CANADA

Elevation Kelly Bushing	769.20	metres	First Reading	1448.70	metre
Elevation Drill Floor		metres	Depth Driller	1449.00	metres
Elevation Ground Level	765.20	metres	Depth Logger	1449.50	metres



Weatherford®

ARRAY INDUCTION



ARRAY INDUCTION

COMPANY **PARAMOUNT RESOURCES LTD.**
WELL **PARAMOUNT ET AL CAMERON J-04**
FIELD **CAMERON HILLS**
PROVINCE/COUNTY **NORTH WEST TERRITORIES**
COUNTRY/STATE **CANADA**
LOCATION **300/J-04-60-10-117-30**

FIELD PRINT

LSD	SEC	TWP	RGE	Other Services		PHOTO DENSITY DUAL SPACED NEUTRON	
API Number Permit Number 1159				MICROLOG COMPENSTATED SONIC			
Permanent Datum GROUND LEVEL, Elevation 765.20 metres						Elevations:	metres
Log Measured From 4.00 M above Permanent Datum						KB	769.20
Drilling Measured From KB						DF	
						GL	765.20
Date			15-FEB-2007				
Run Number			1				
Depth Driller			1449.00 metres				
Depth Logger			1449.50 metres				
First Reading			1448.70 metre				
Last Reading			420.00 metre				
Casing Driller			430.00 metres				
Casing Logger			429.80 metres				
Bit Size			200.00 mm				
Hole Fluid Type			GELCHEM				
Density / Viscosity			1060.0 kg/M3	93.00	CP		
PH / Fluid Loss			11.00	11.00	ml/30Min		
Sample Source			FLOWLINE				
Rm @ Measured Temp			1.18 @ 25.0	ohm-m			
Rmf @ Measured Temp			1.04 @ 25.0	ohm-m			
Rmc @ Measured Temp			1.32 @ 25.0	ohm-m			
Source Rmf / Rmc			PRESS	FILTER			
Rm @ BHT			0.78 @ 48.0	ohm-m			
Time Since Circulation			6 HRS				
Max Recorded Temp			48.00 deg C				
Equipment Name			COMPACT				
Equipment / Base			13124	GPR			
Recorded By			G. SINGER				
Witnessed By			A. AHMED				
CIRC. STOP TIME			01:30-FEB-15			Last Line	

BOREHOLE RECORD

Last Edited: 15-FEB-2007 05:01

Bit Size millimetres	Depth From metres	Depth To metres
311.000	0.00	430.00
200.000	430.00	1449.00

CASING RECORD

Type	Size millimetres	Depth From metres	Shoe Depth metres	Weight Kg/metre
SURFACE	219.100	0.00	430.00	35.72

REMARKS

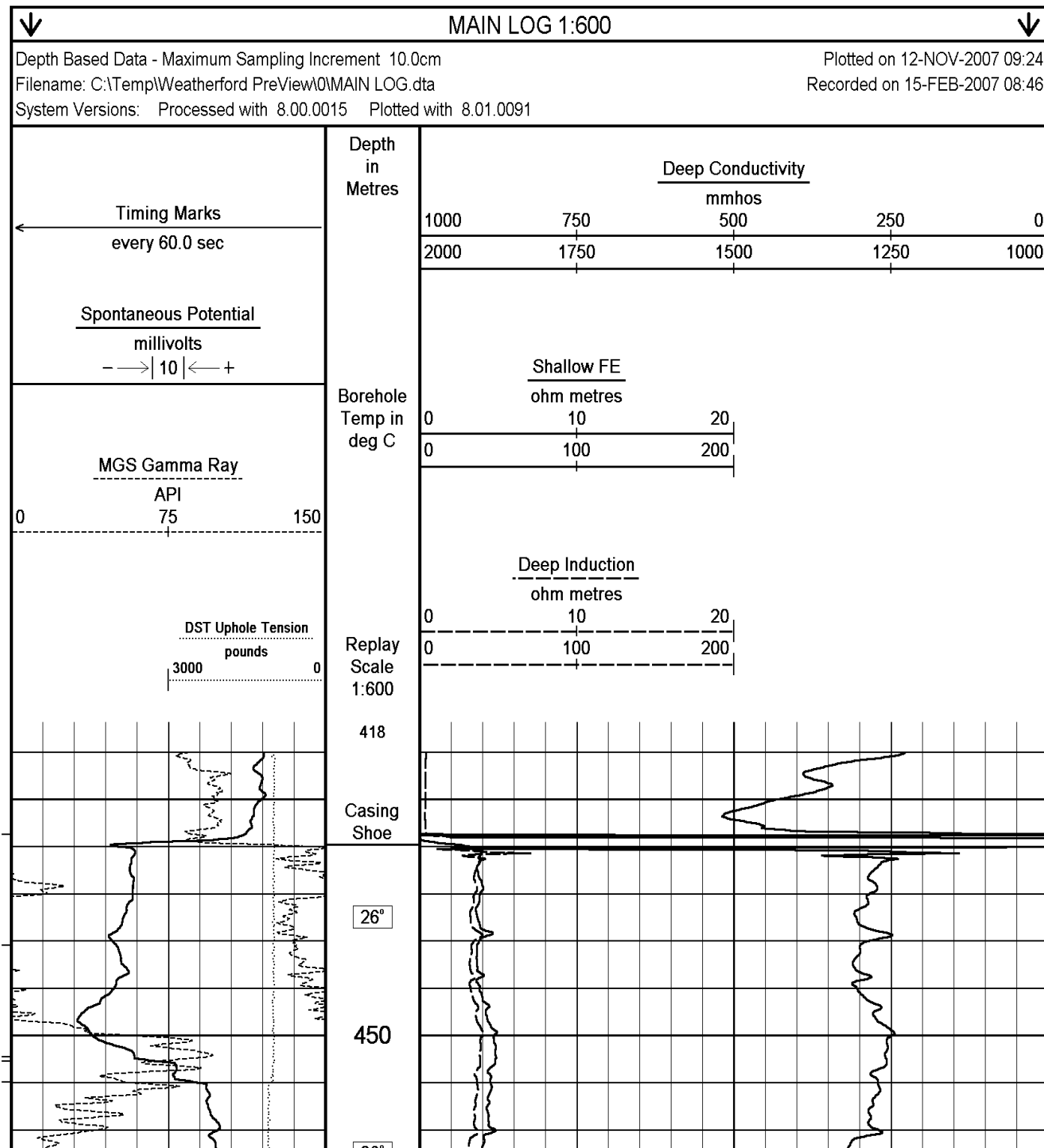
- 1) SOFTWARE ISSUE: WLS 7.01.0195.
- 2) CUSTOMER SCALES AND LOGGED INTERVALS USED
- 3) TOOLS RUN: MAI, MSS, MPD, MDN, MML, ISC, MGS, MTC, MFE, MCG RUN IN COMBINATION
- 4) HARDWARE: MAI: TWO 25.4 MM STANDOFFS
MSS: THREE 25.4 MM STANDOFFS
MDN: DUAL BOWSPRING AND INTERSONIC CRANK
MTC: SIX LEAF CENTRALIZER

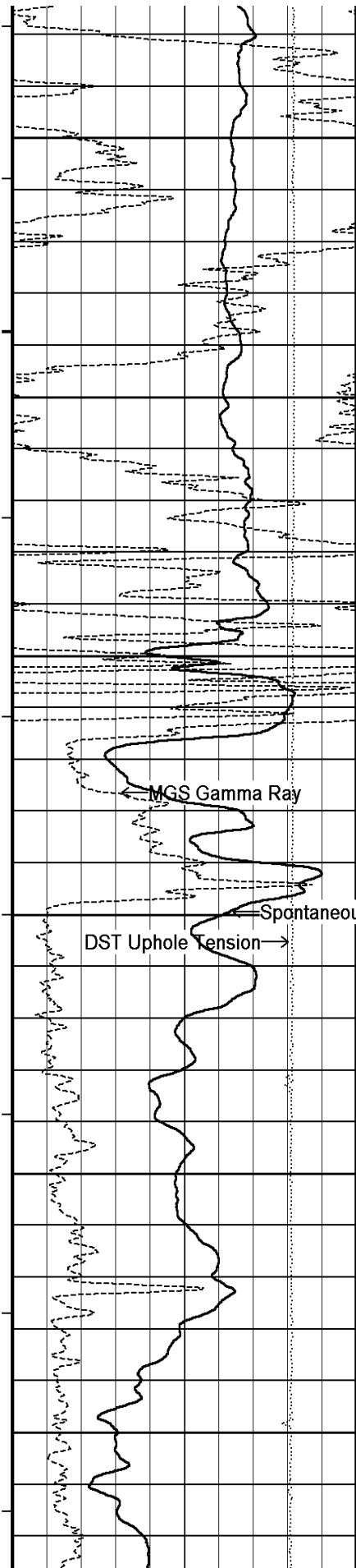
- 5) SERVICE ORDER #: 30073028
 - 6) RIG: PD 129
- SAP #: 4147101 # FIELD PRINTS = 3

HOLE VOLUME = 37.4 CU.M.

8) SONIC FREE PIPE FOUND FROM 352M - 357M

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 interpretations, and we shall not, except in the case of gross or wilful 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 in our price schedule.





20

26°

500

26°

25°

25°

25°

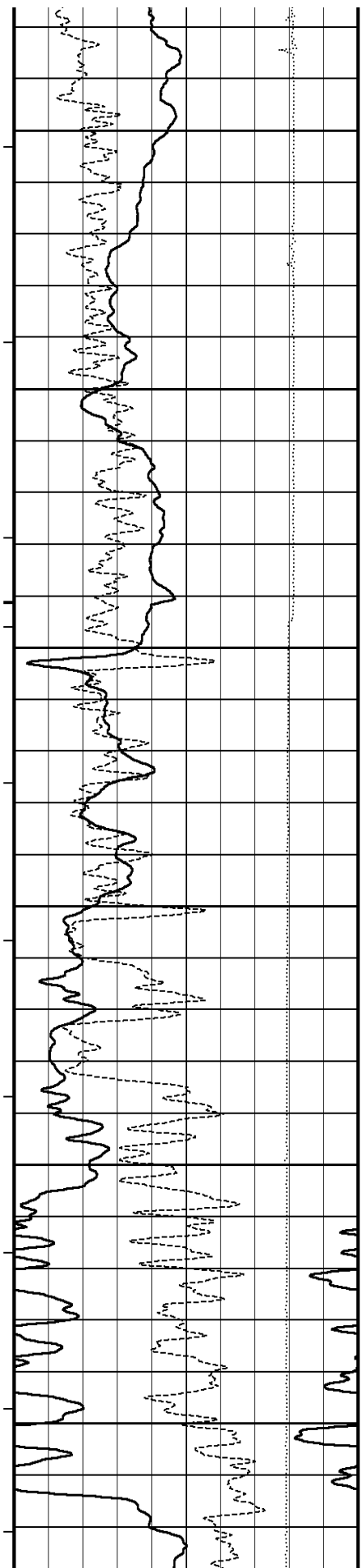
600

27°

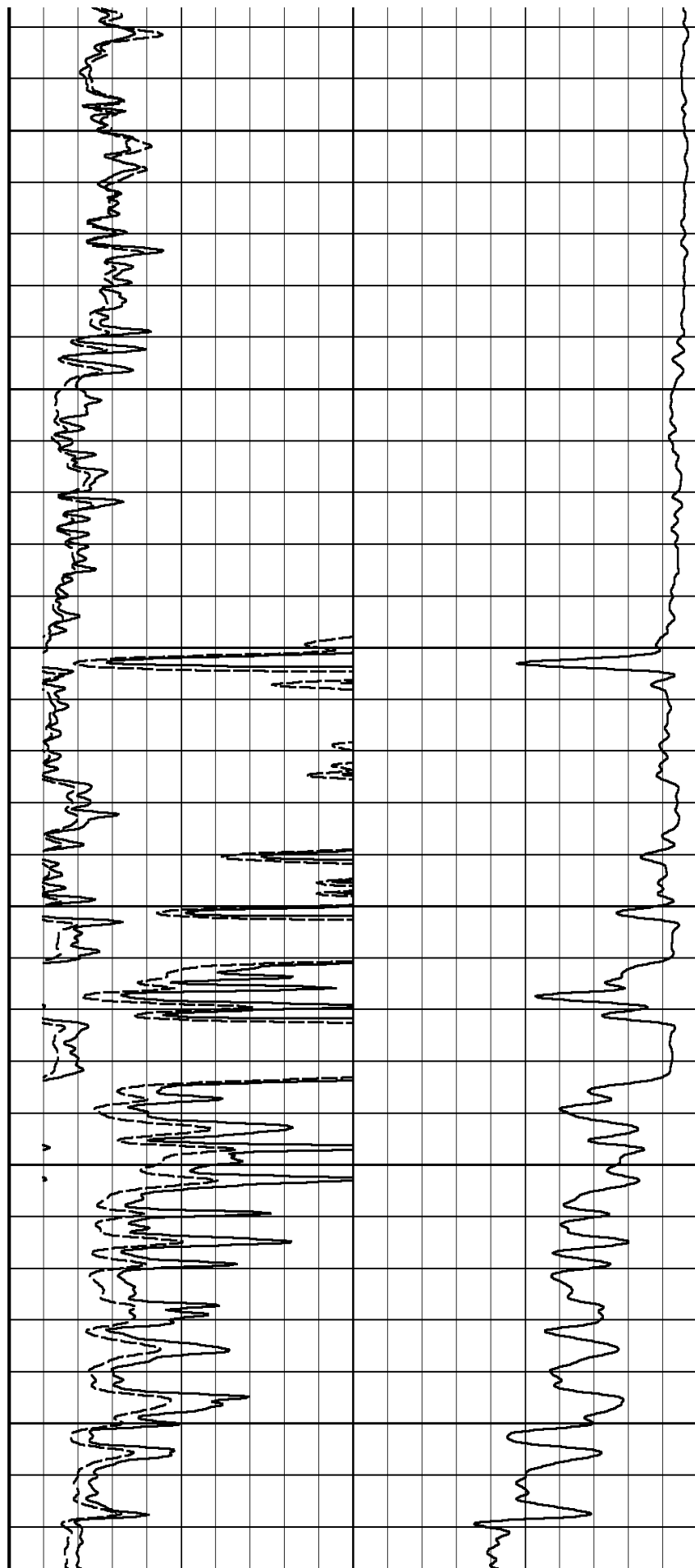
Deep Induction →

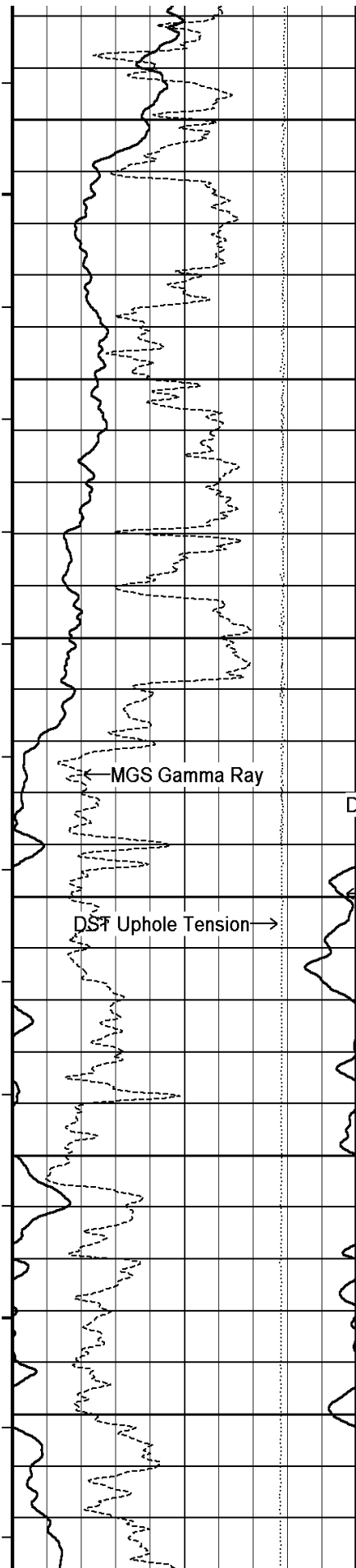
Shallow →

Deep Conductivity →



28° 650 29° 29° 700 30° 30° 750 31°





32°

800

33°

33°

Deep Induction

Shallow FE

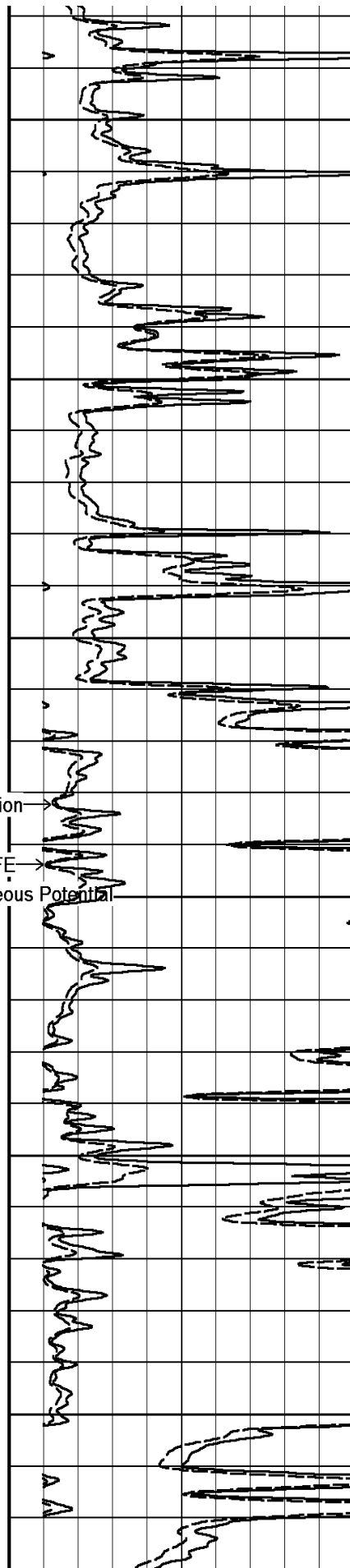
S850neous Potential

34°

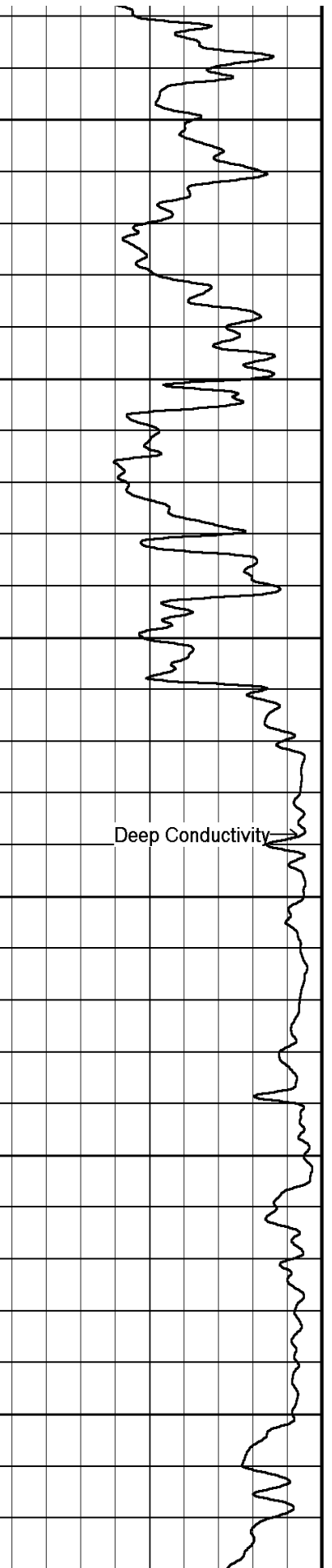
34°

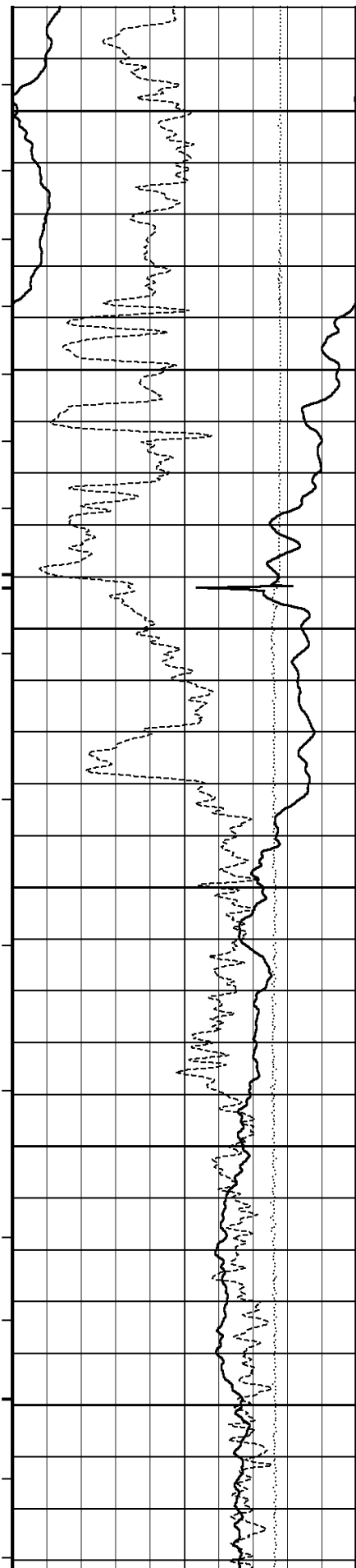
900

35°



Deep Conductivity





35°

950

36°

36°

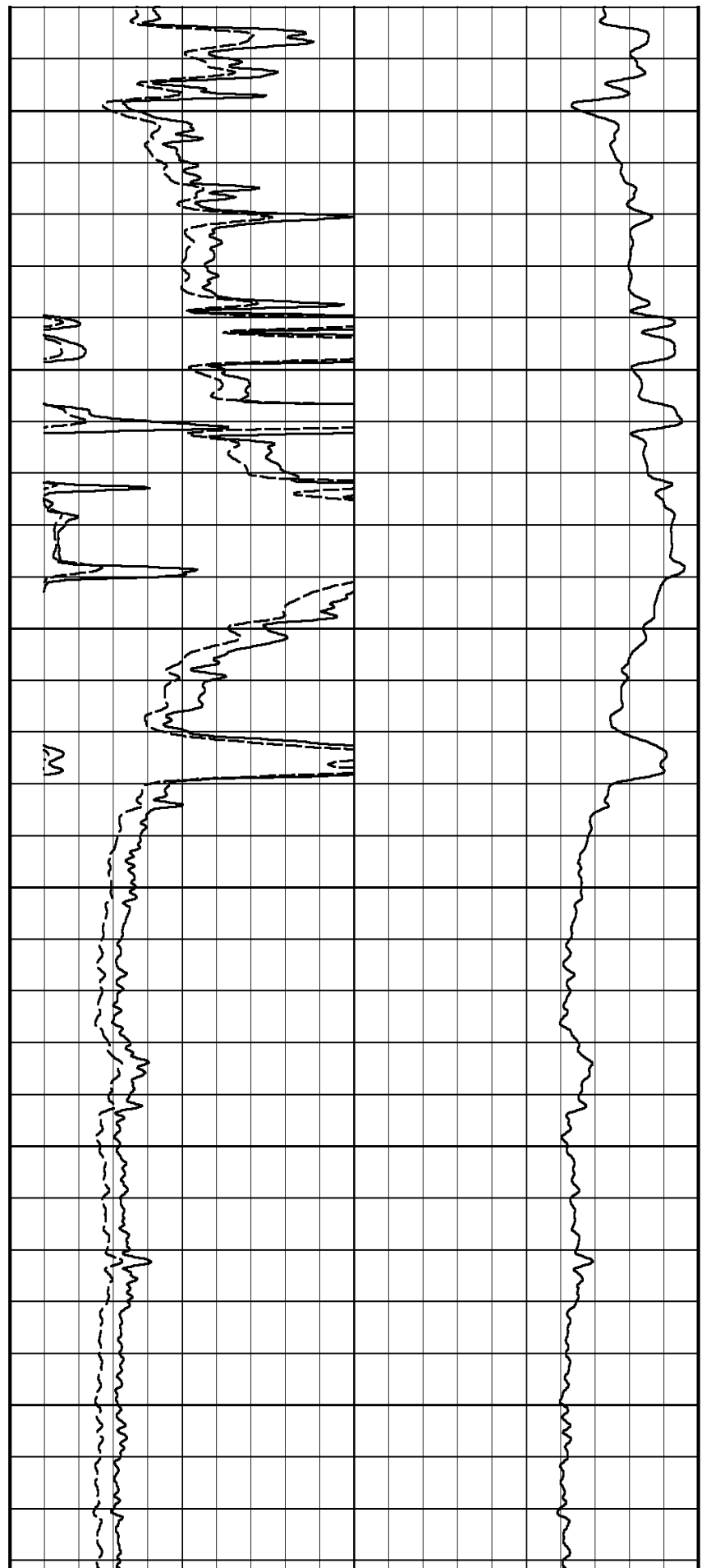
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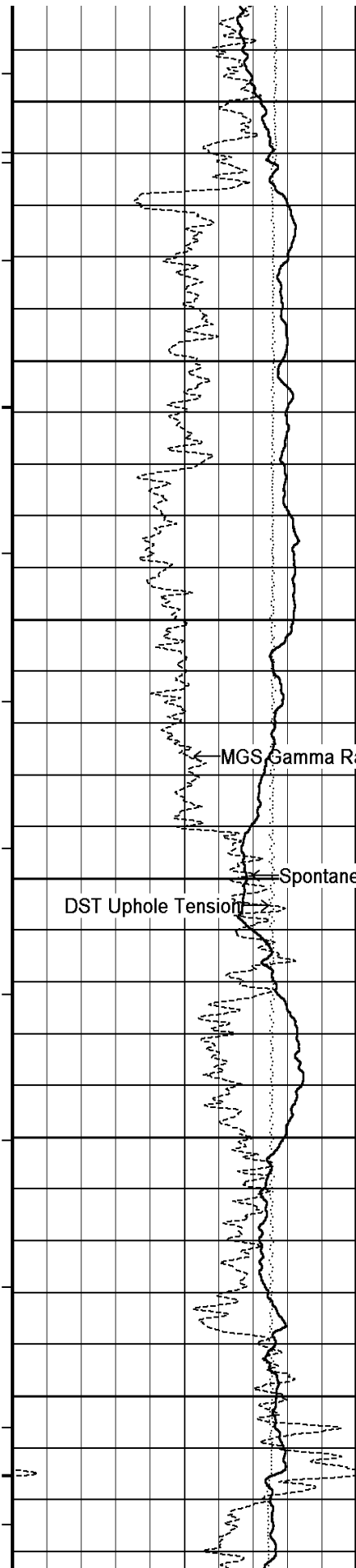
37°

37°

1050

38°





38°

1100

39°

40°

40°

41°

1200

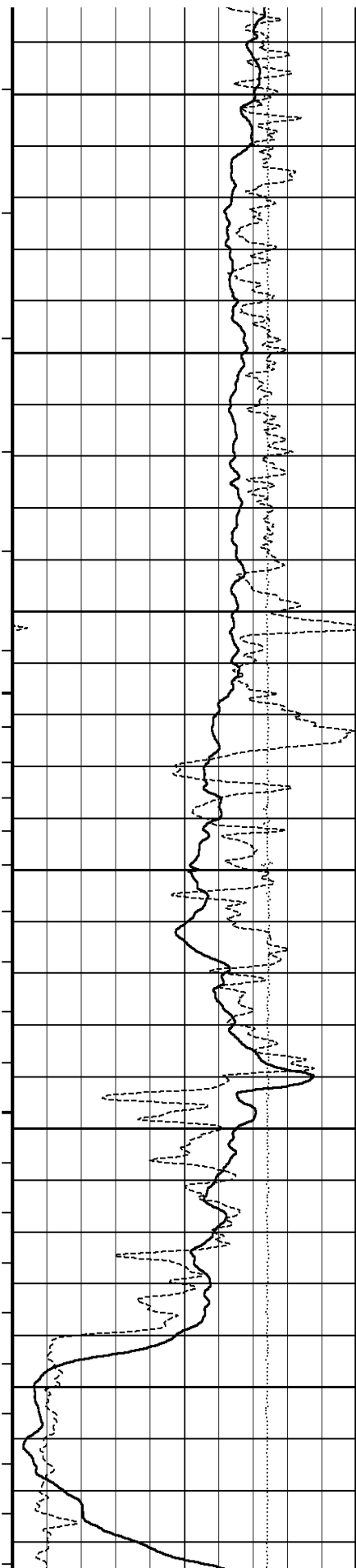
41°

Deep Induction

Shallow FE

ntial

Deep Conductivity



42°

1250

43°

43°

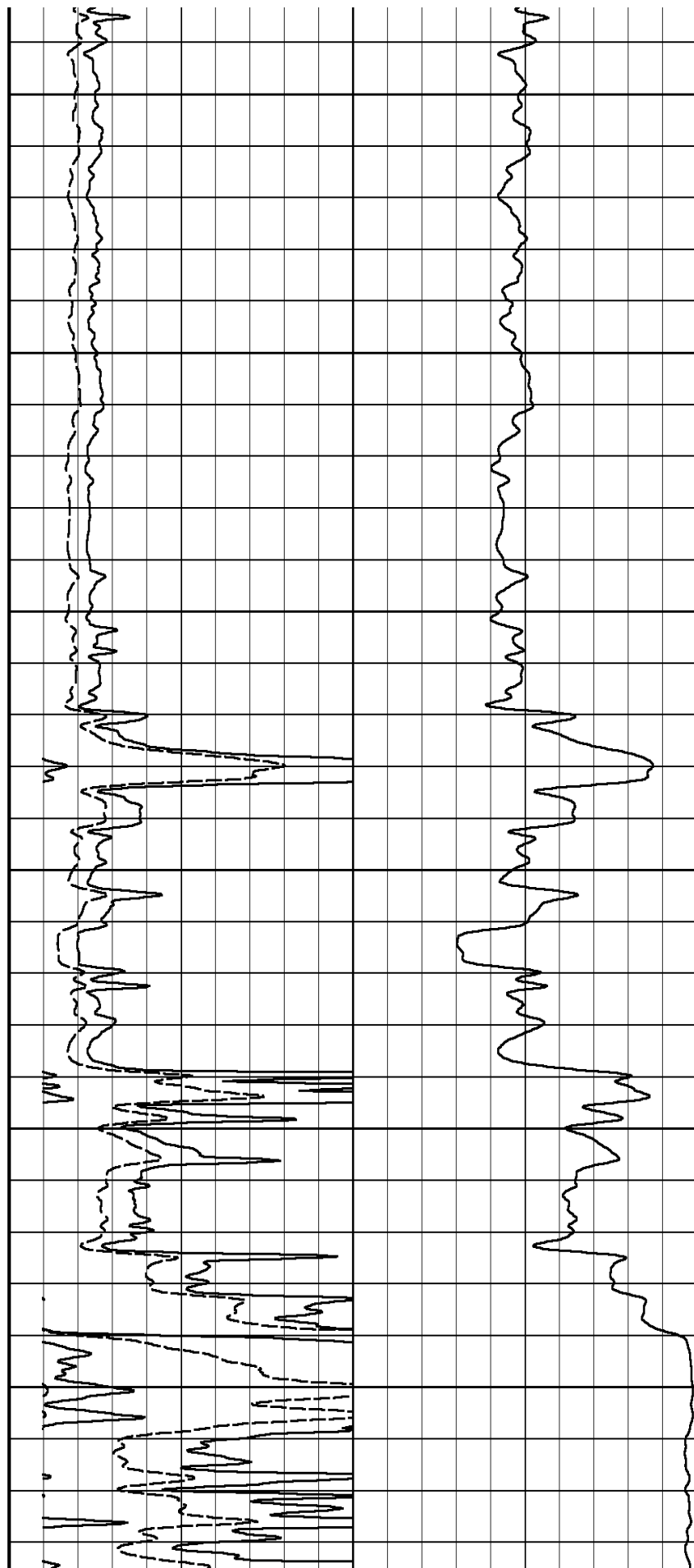
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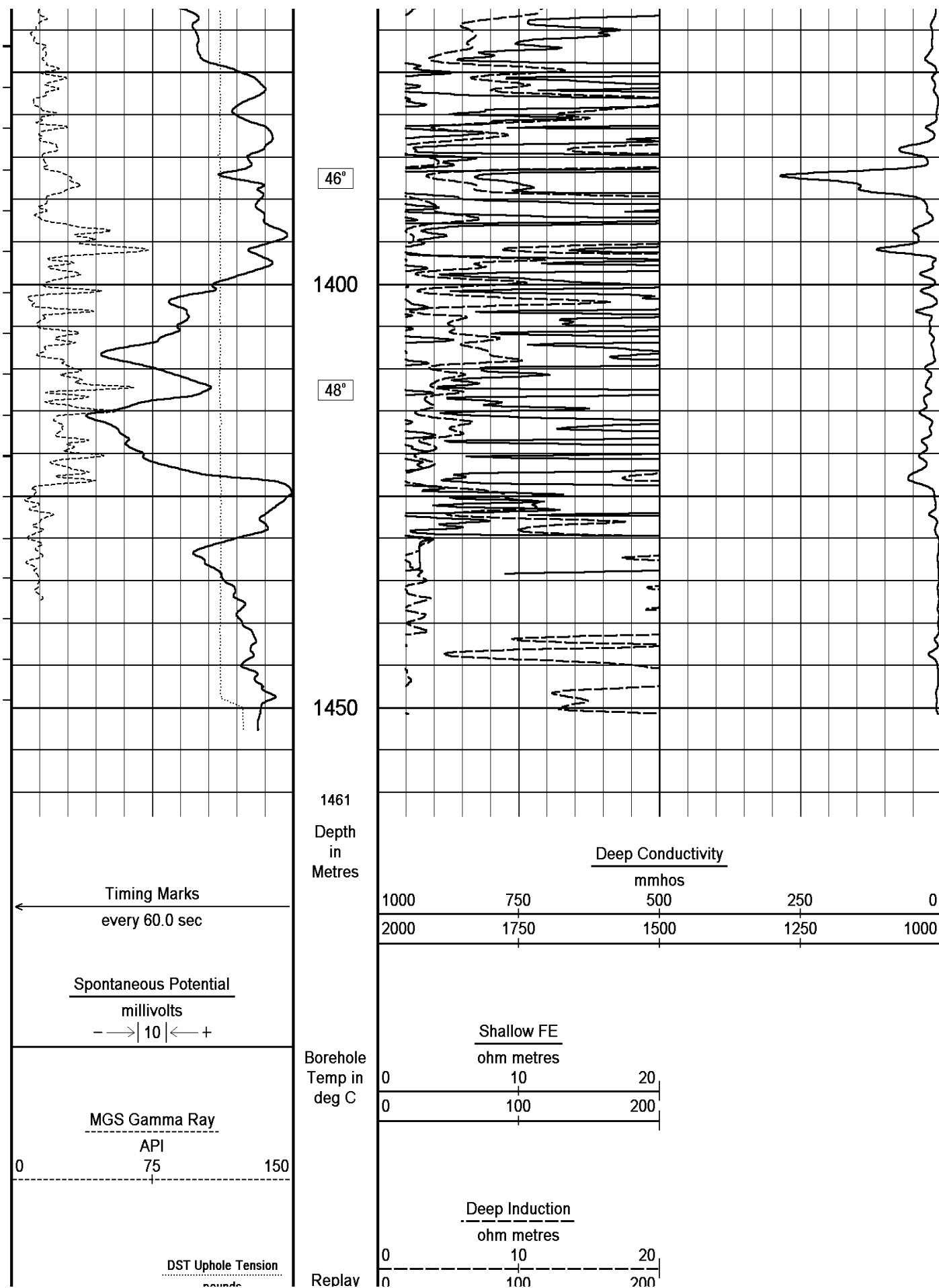
44°

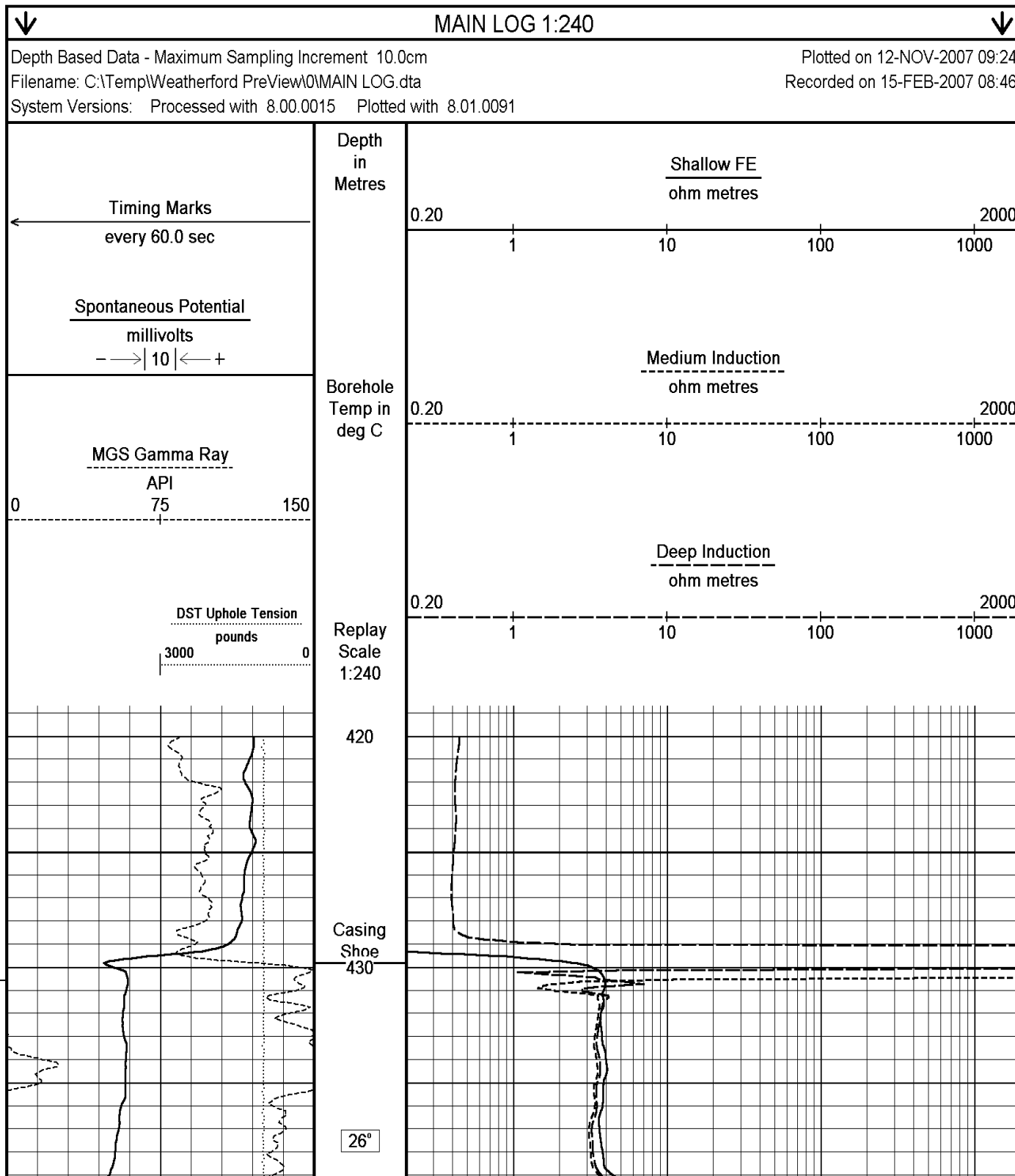
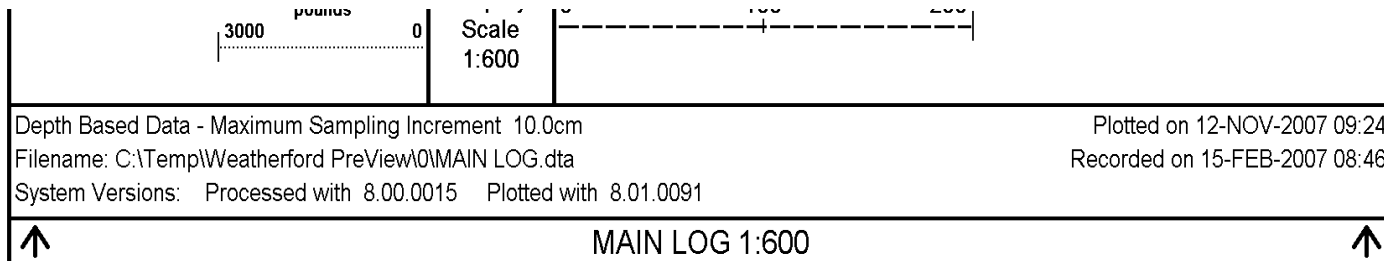
45°

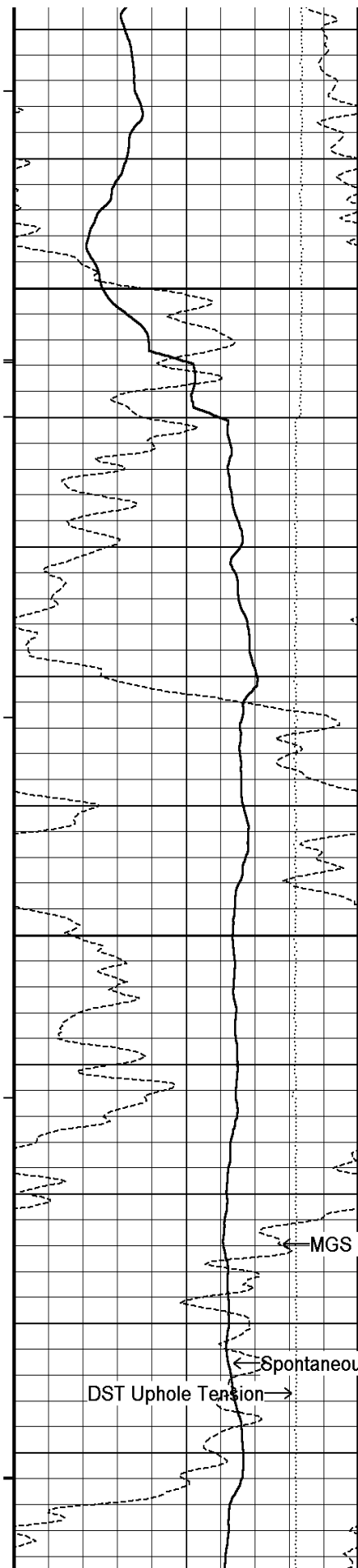
1350

45°









440

450

460

26°

470

480

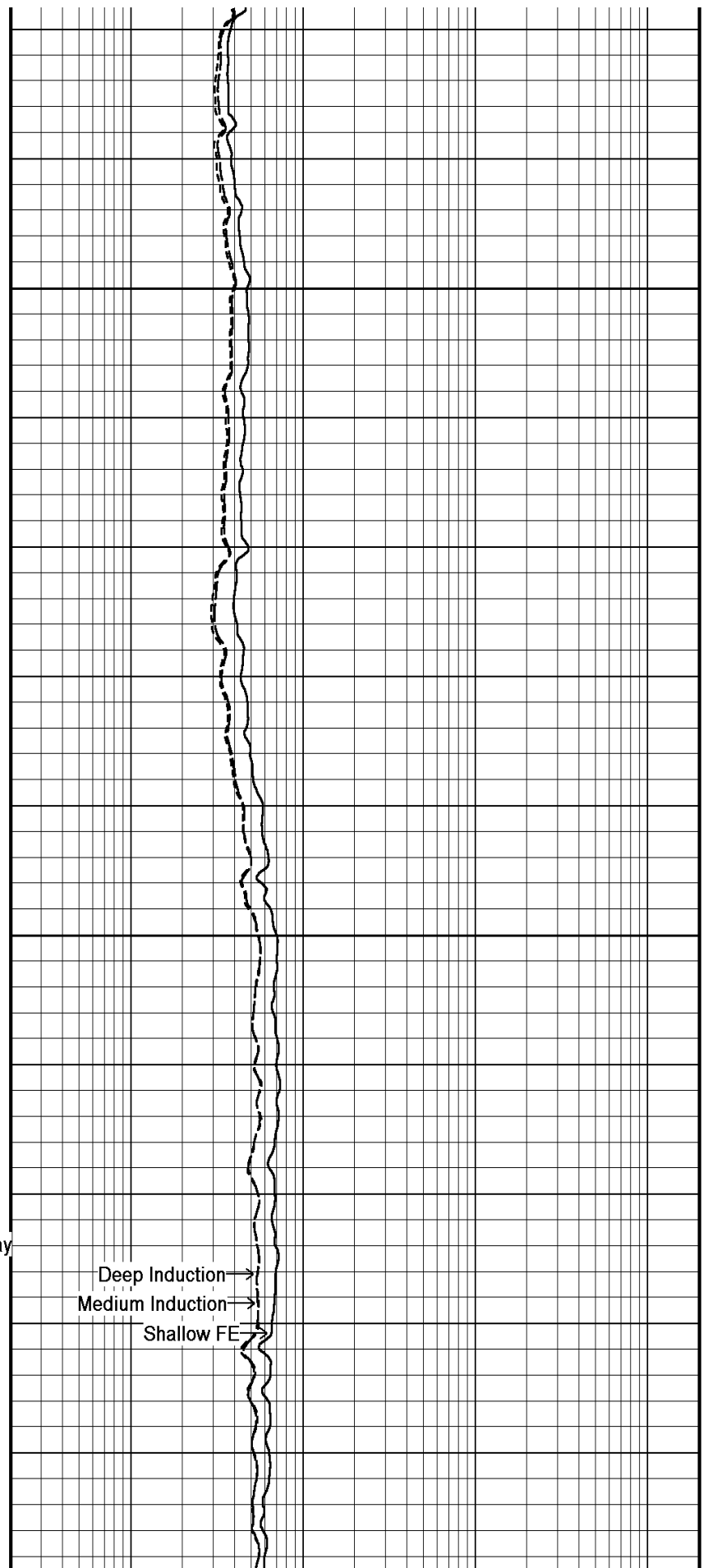
← MGS Gamma Ray

26

490

← Spontaneous Potential

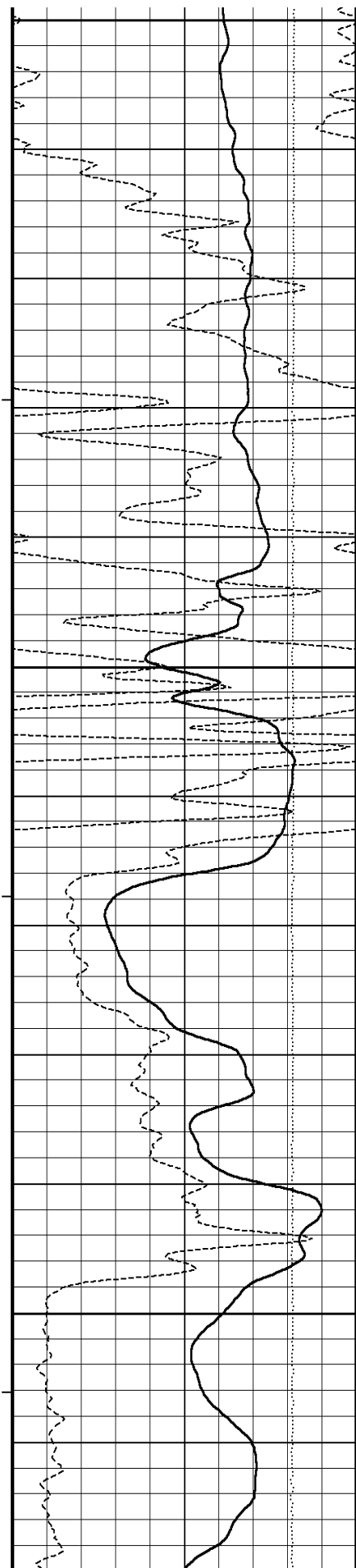
DST Uphole Tension →



→ Deep Induction

→ Medium Induction

→ Shallow FE



500

510

26°

520

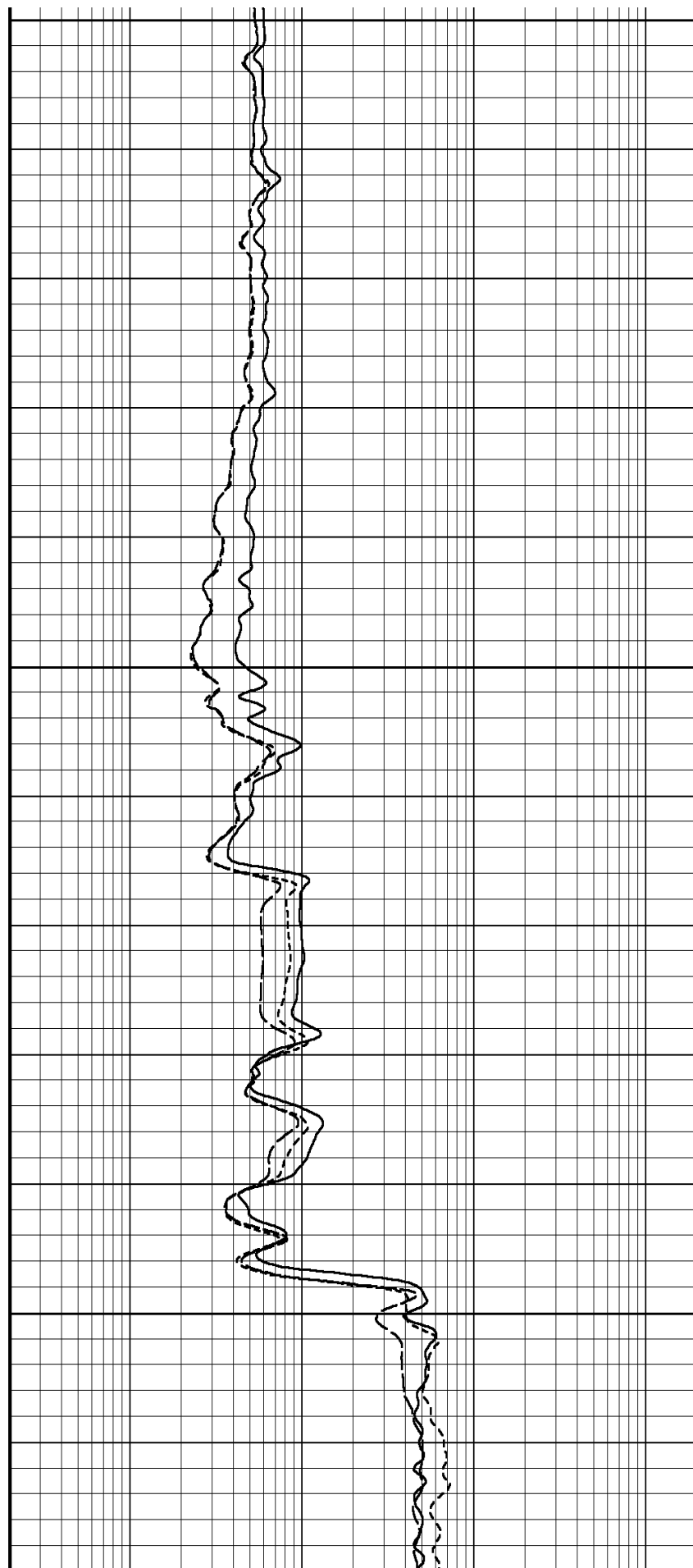
530

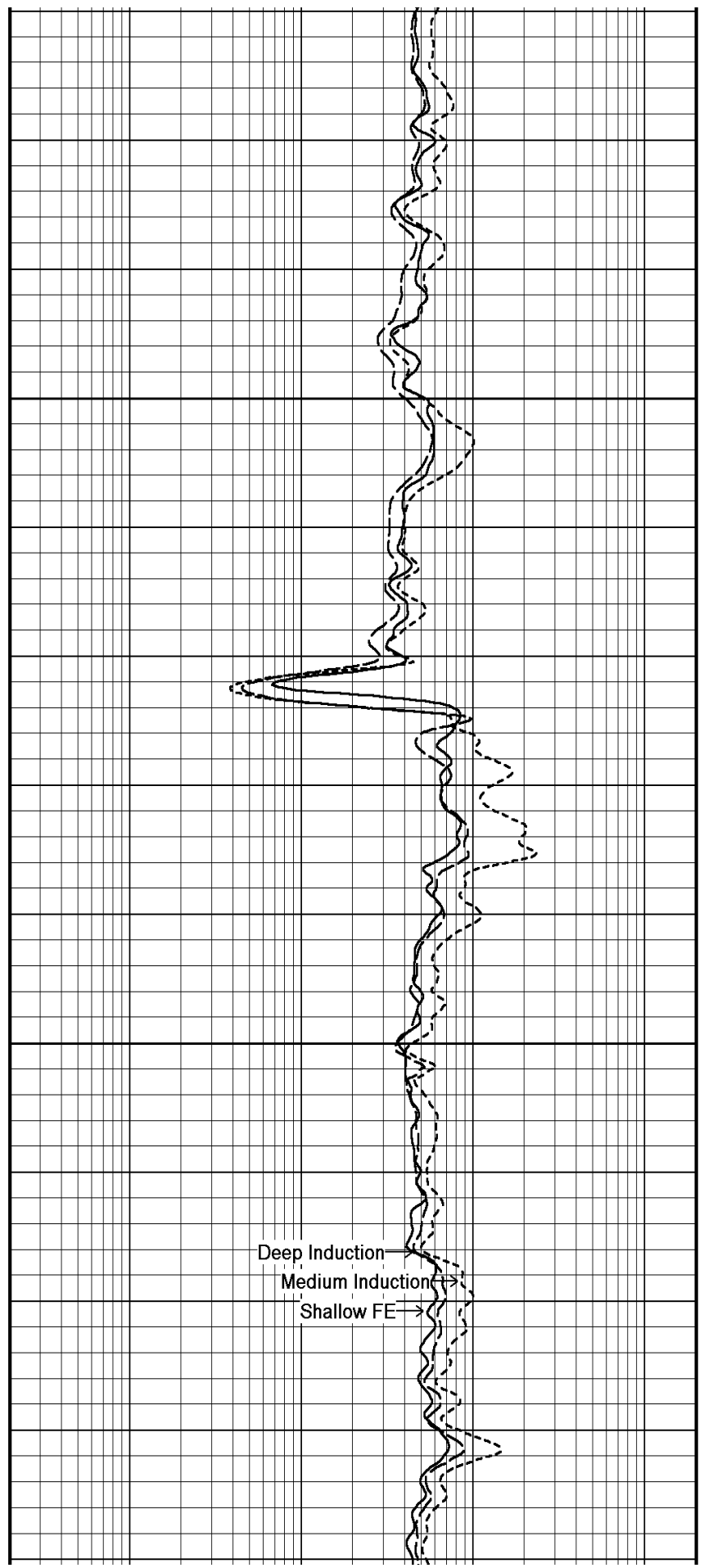
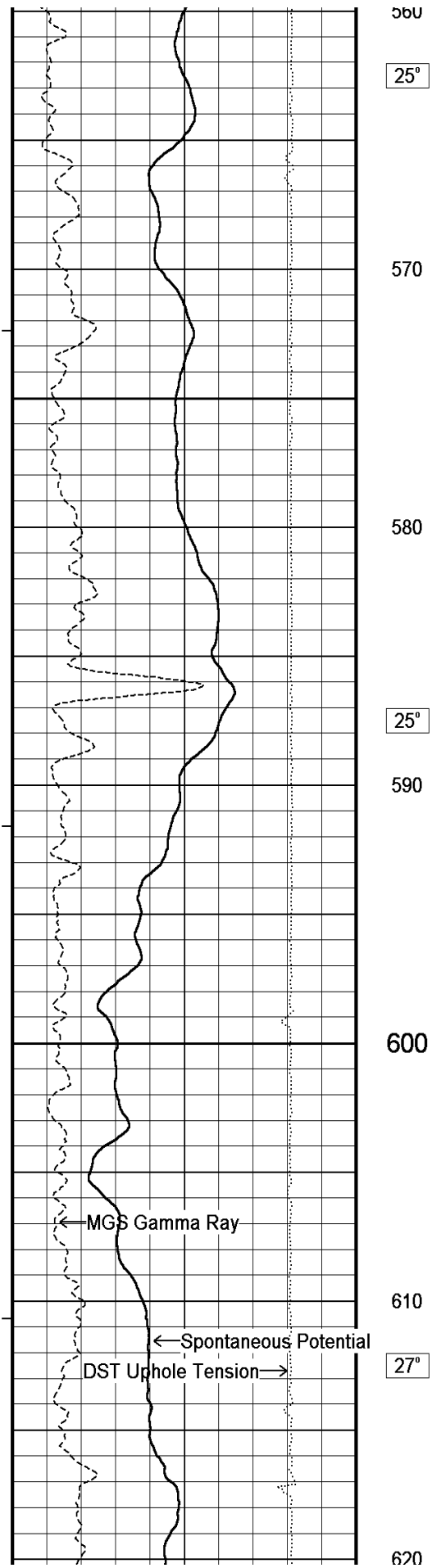
25°

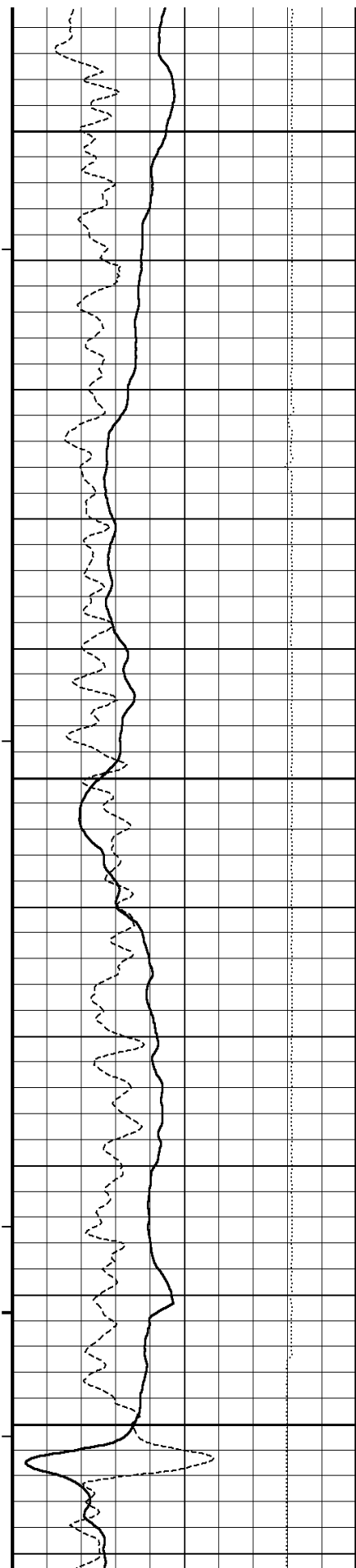
540

550

560







630

28°

640

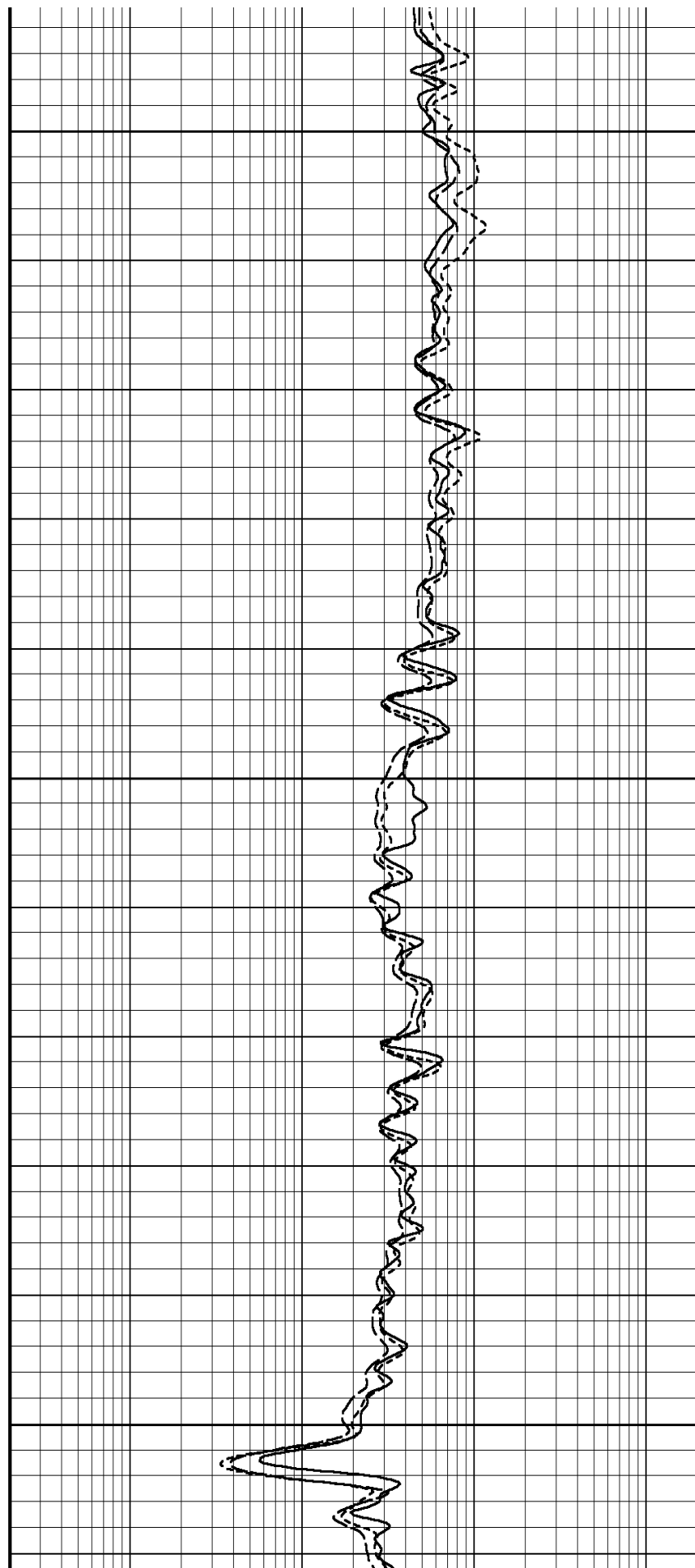
650

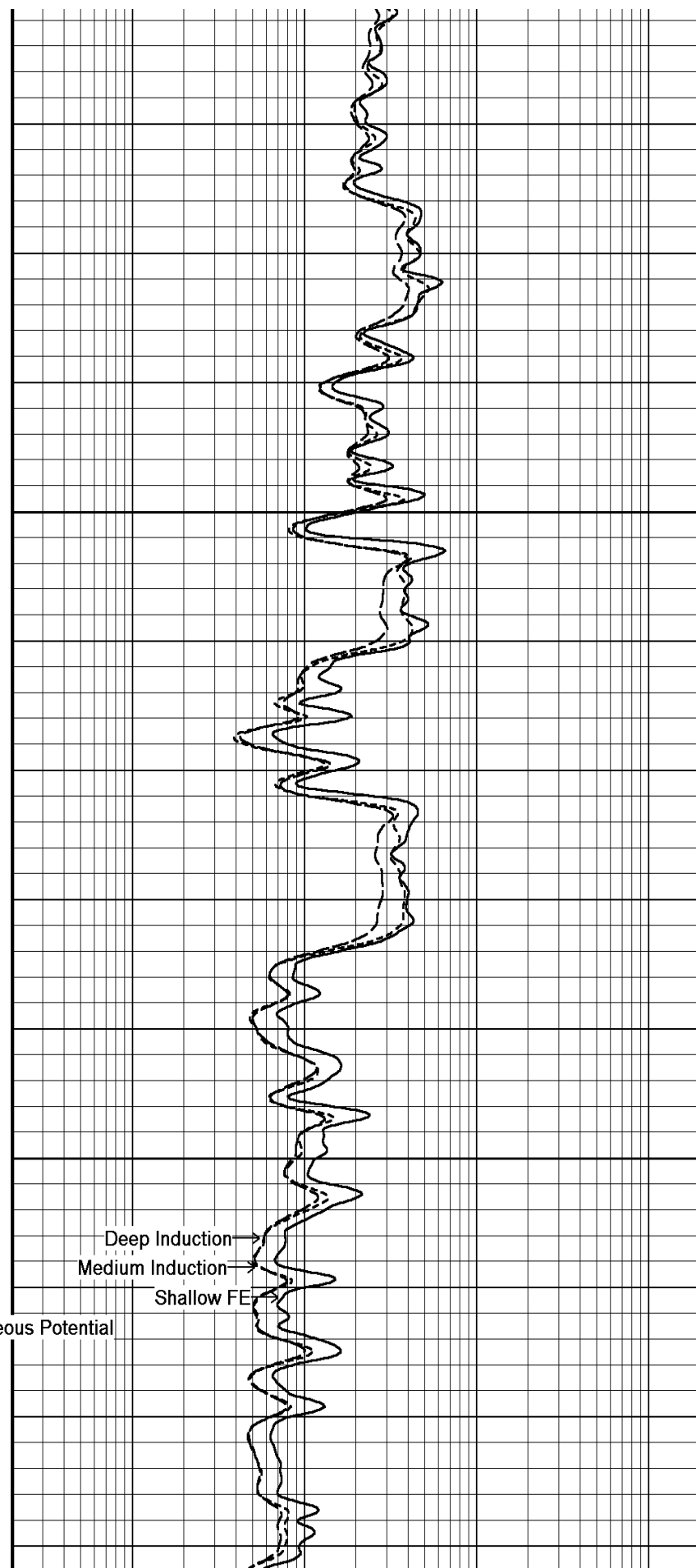
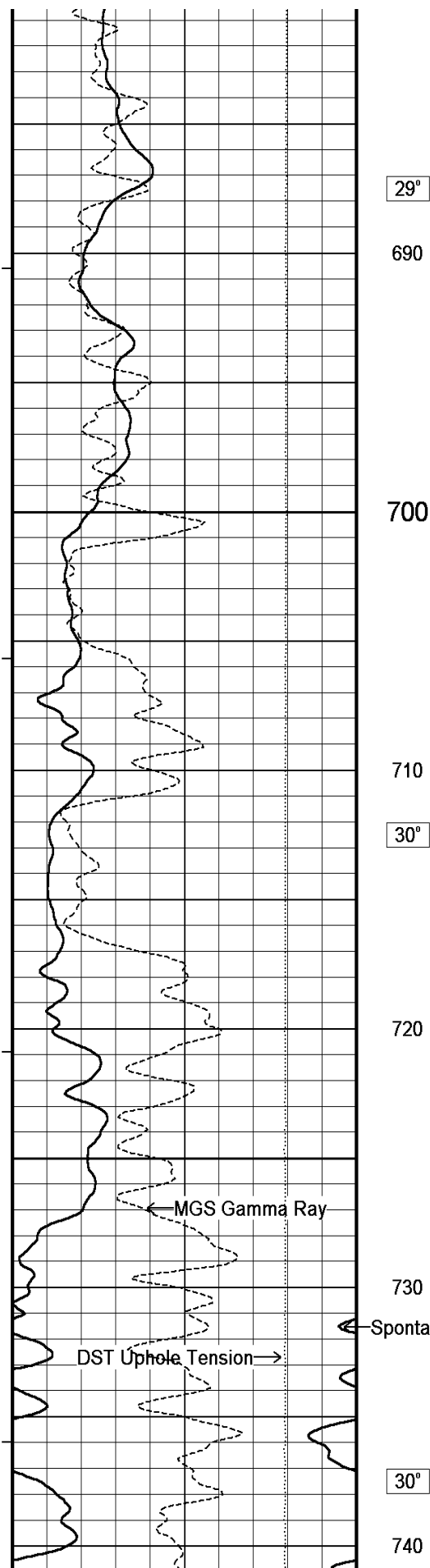
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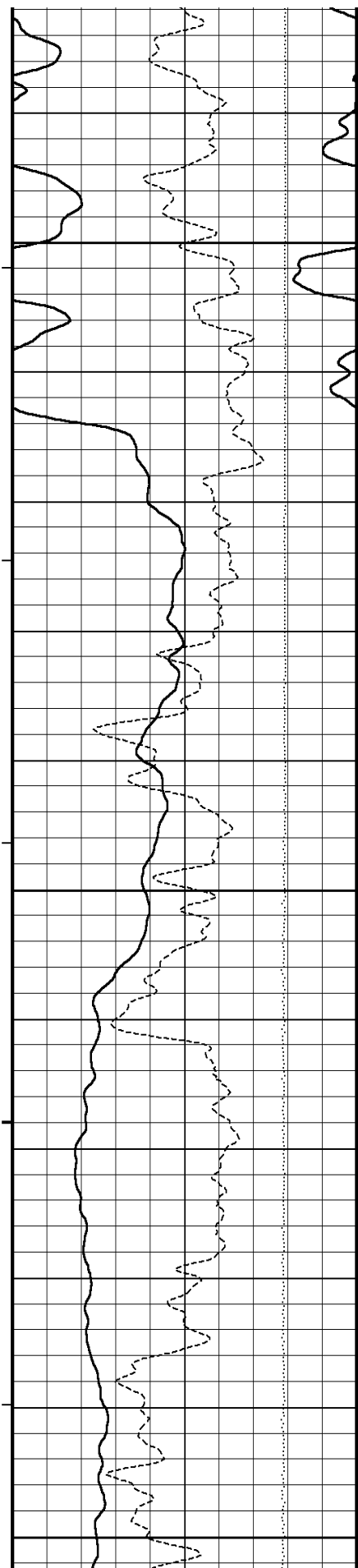
29°

670

680







750

760

31°

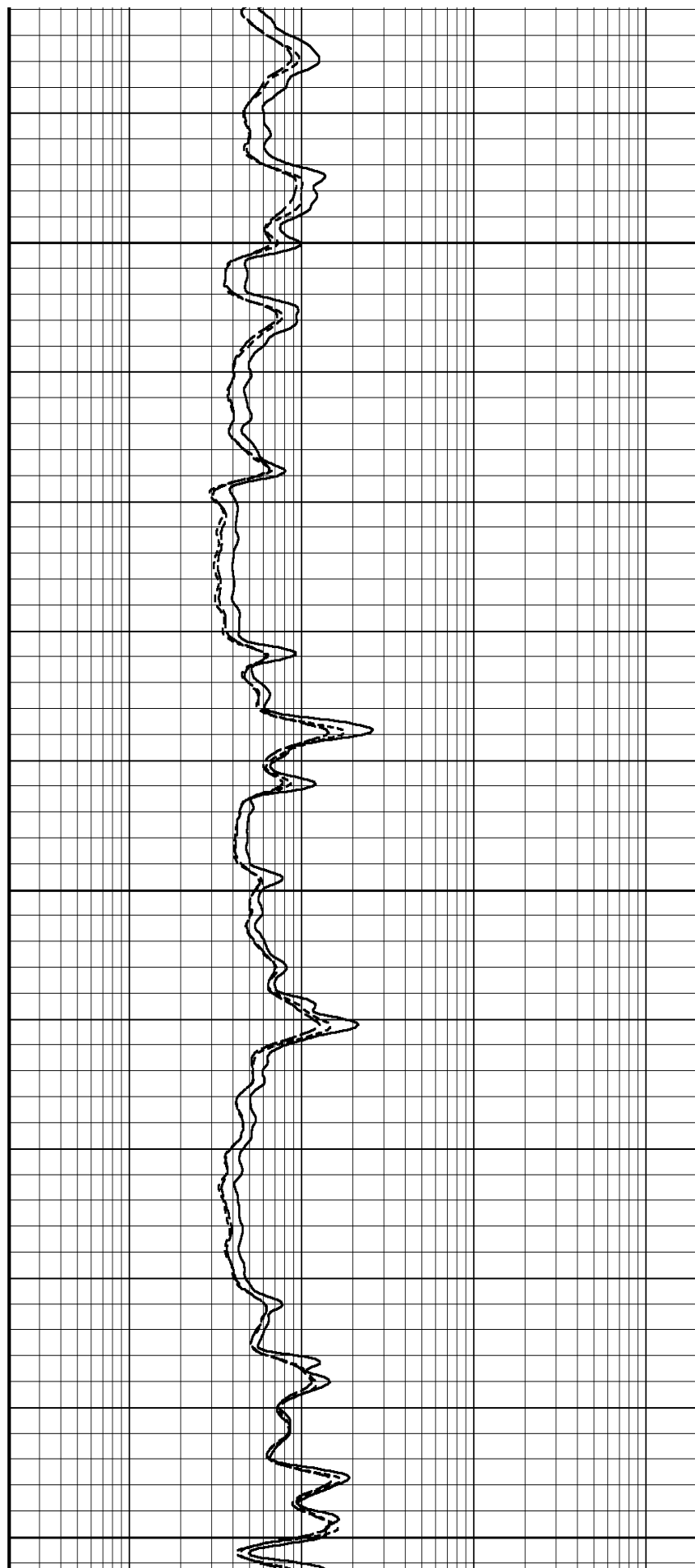
770

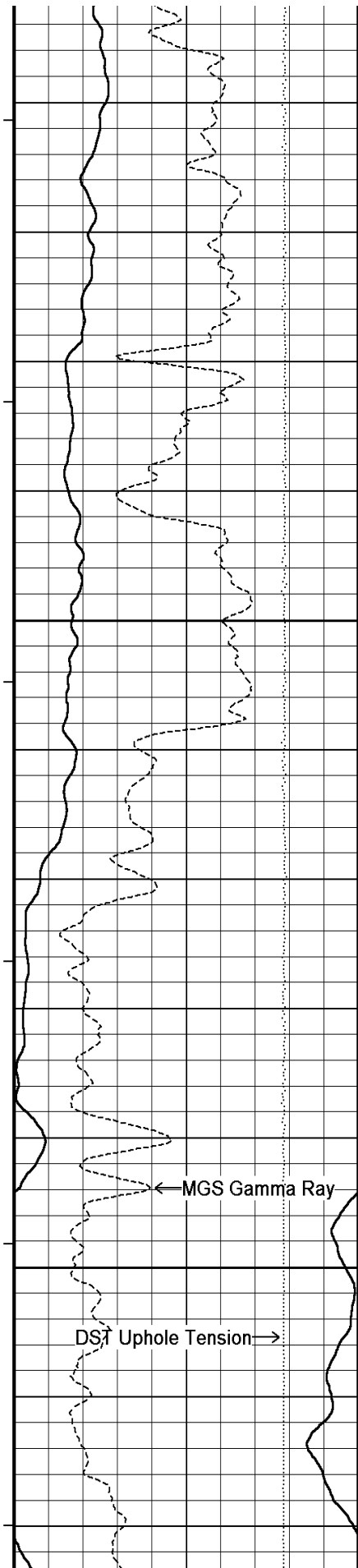
780

32°

790

800





810

33°

820

830

33°

840

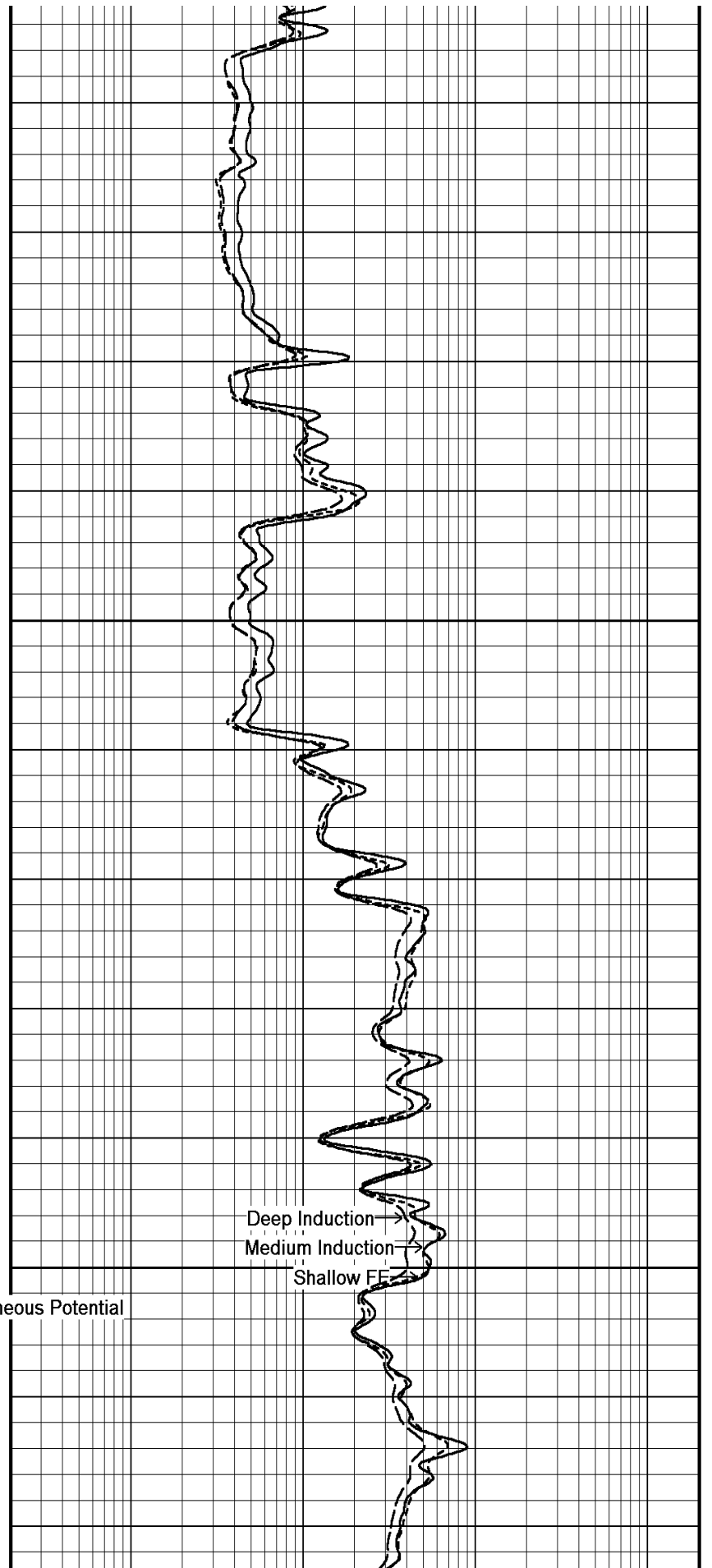
850

860

← MGS Gamma Ray

DSJ Uphole Tension →

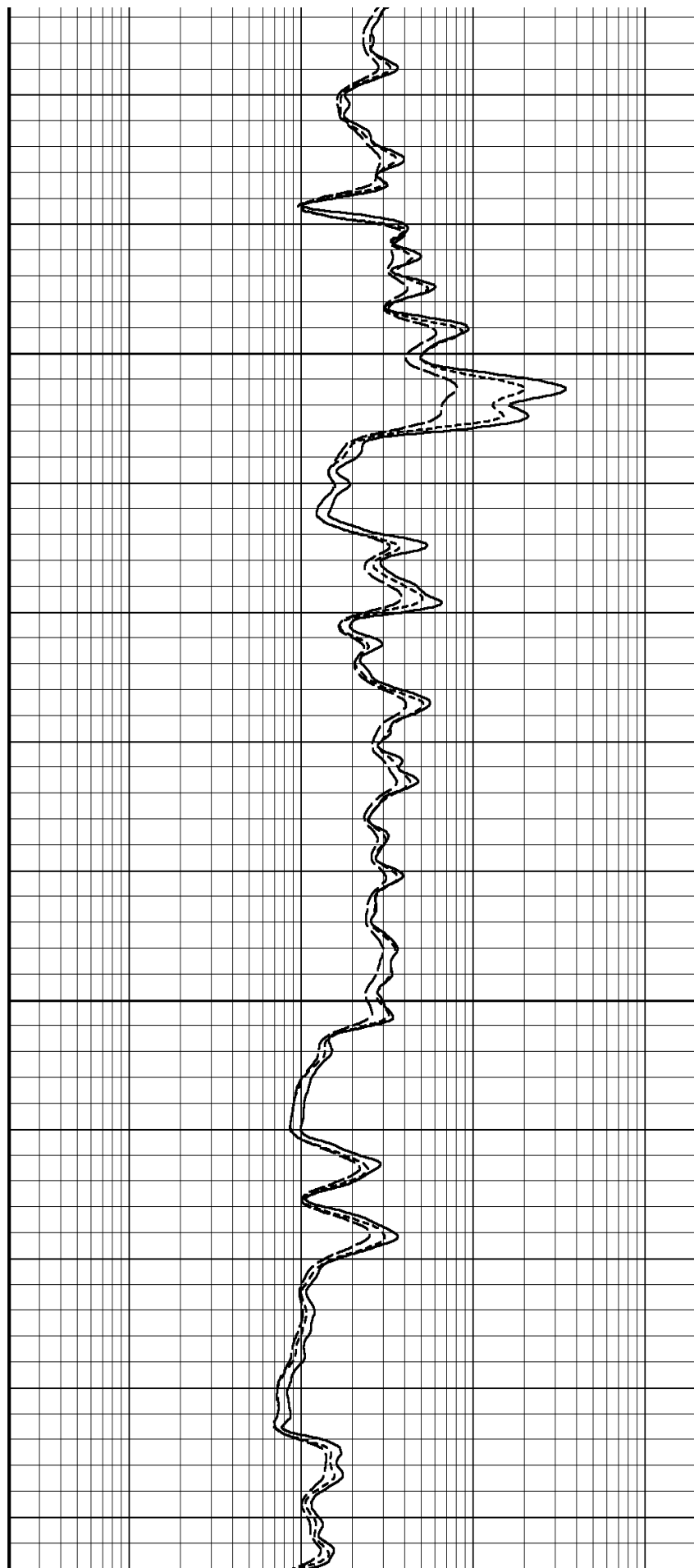
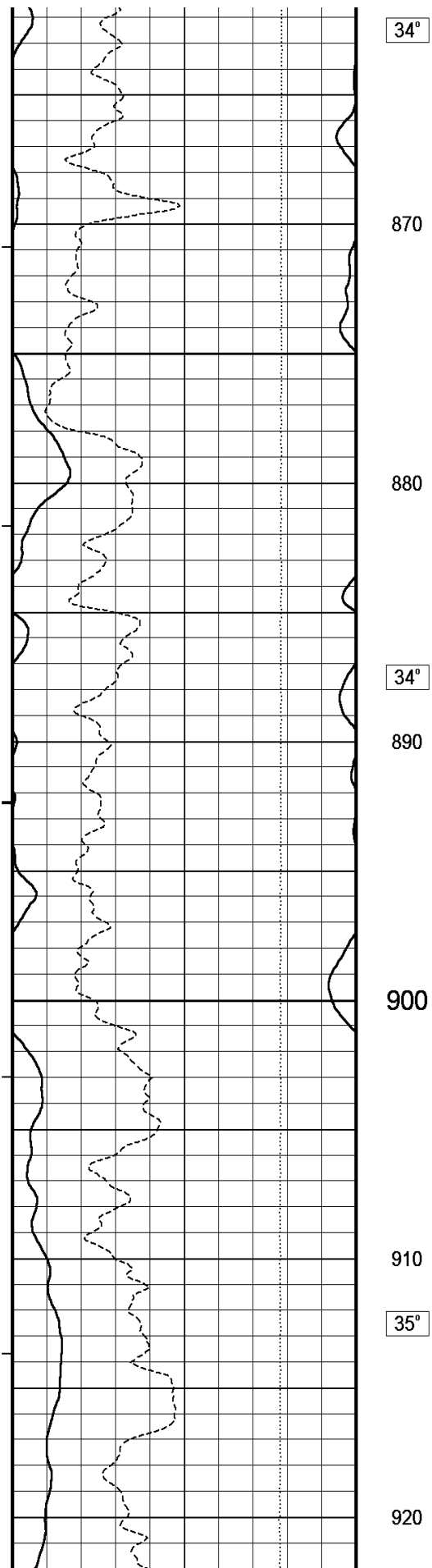
← Spontaneous Potential

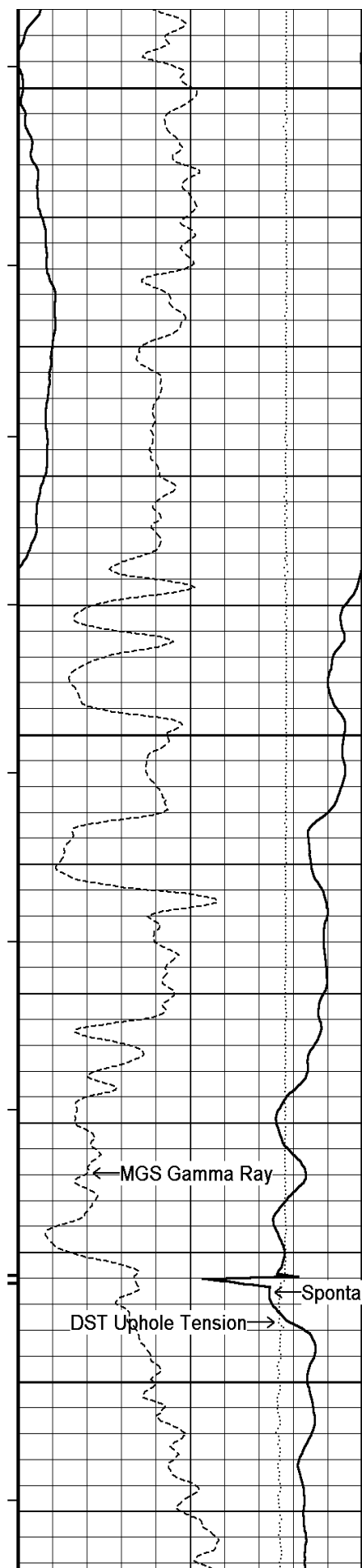


Deep Induction →

Medium Induction →

Shallow FE →





930

35°

940

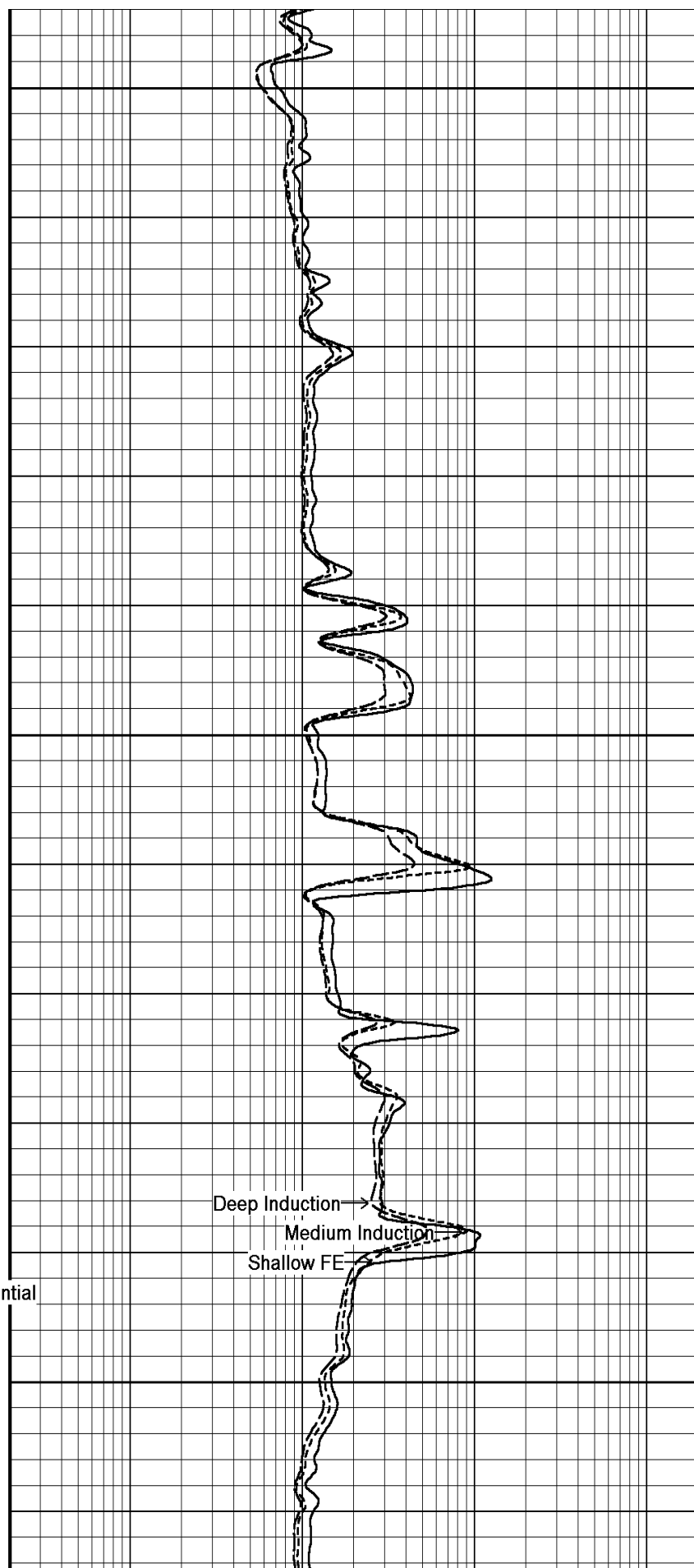
950

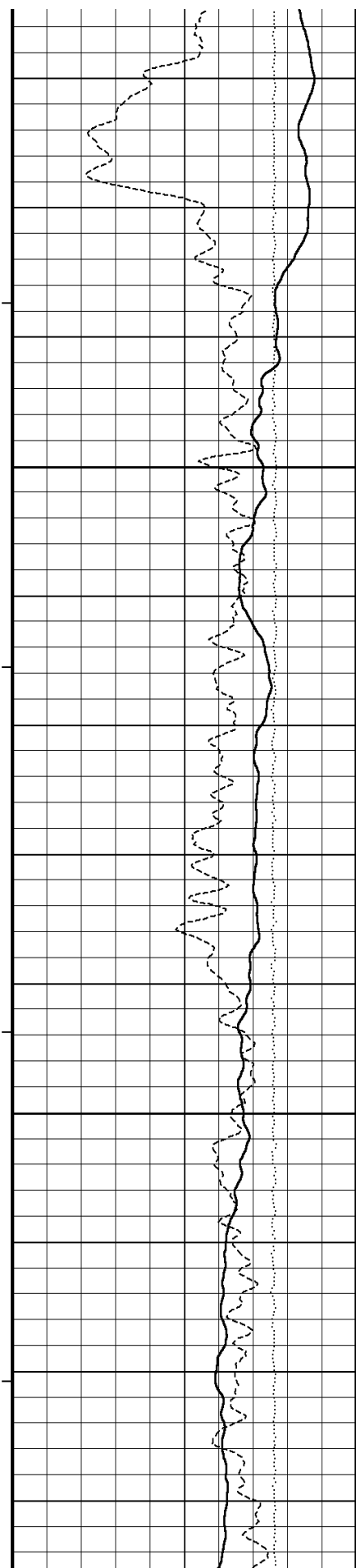
960

36°

970

980





36°

990

1000

1010

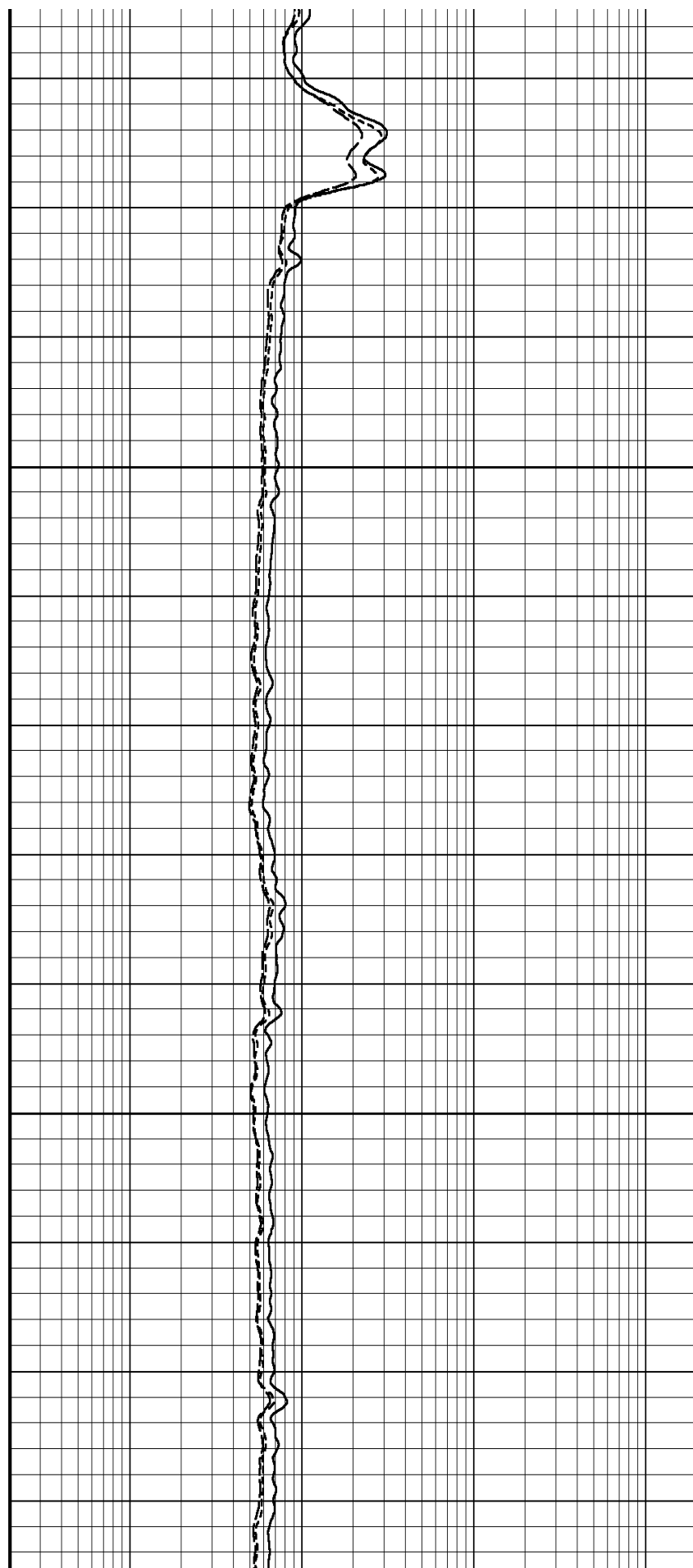
37°

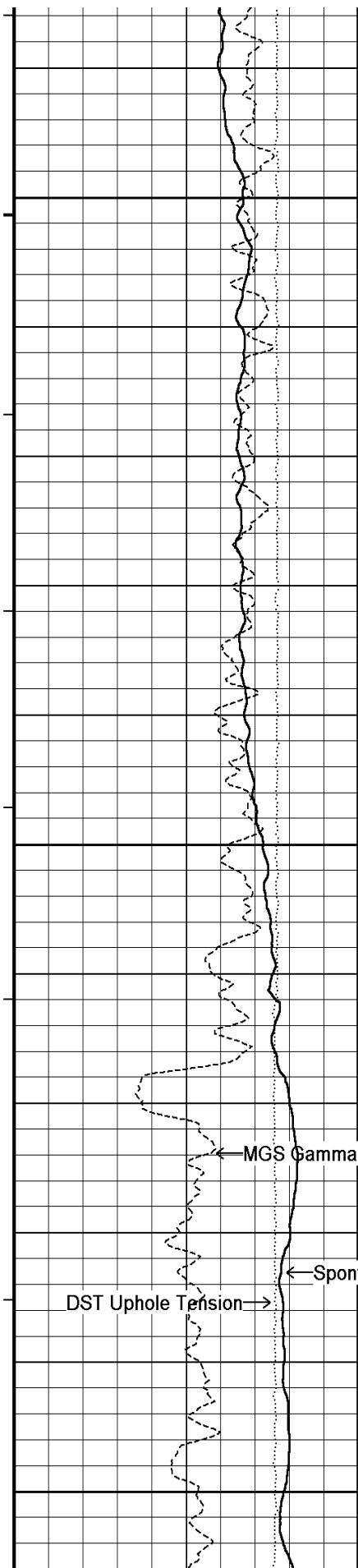
1020

1030

37°

1040





1050

1060

38°

1070

1080

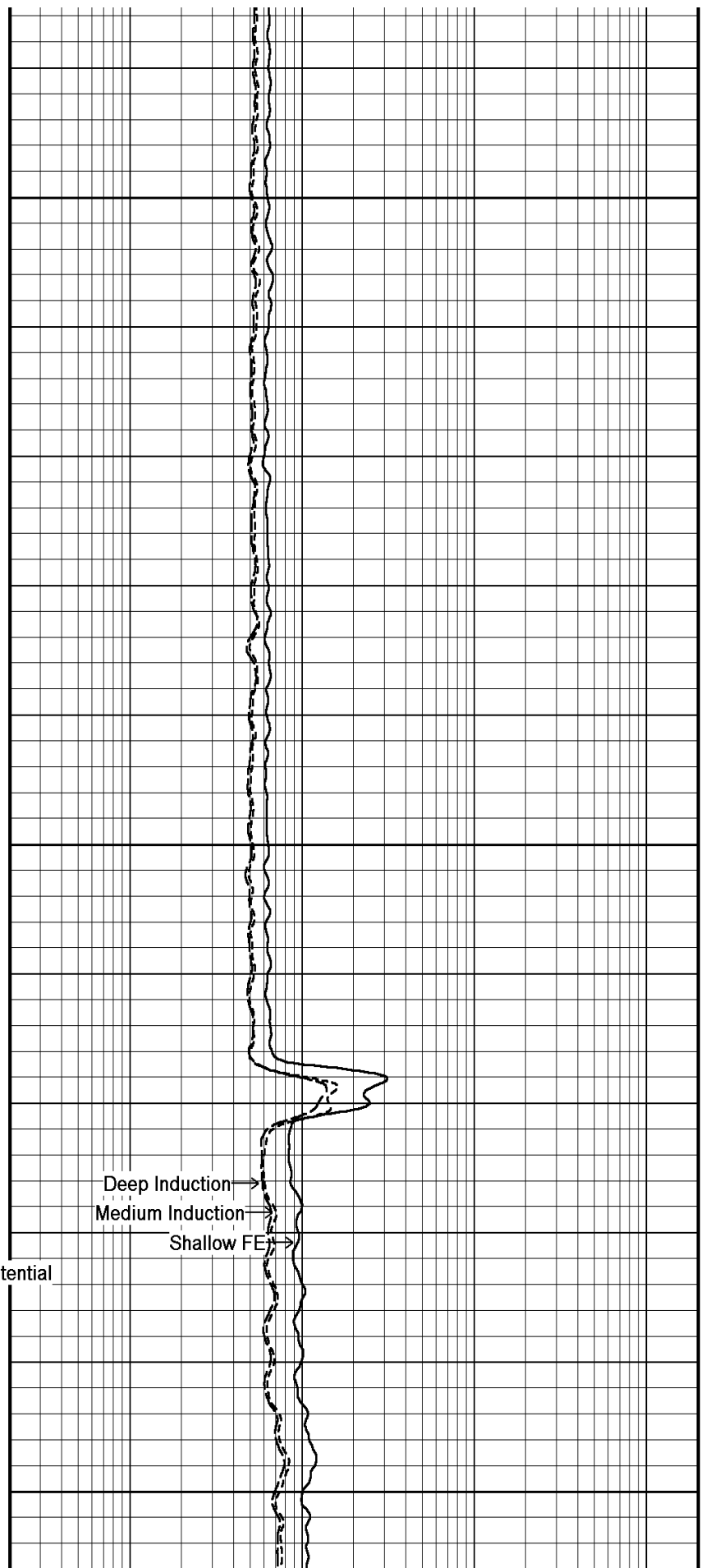
← MGS Gamma Ray 38°

1090

← Spontaneous Potential

DST Uphole Tension →

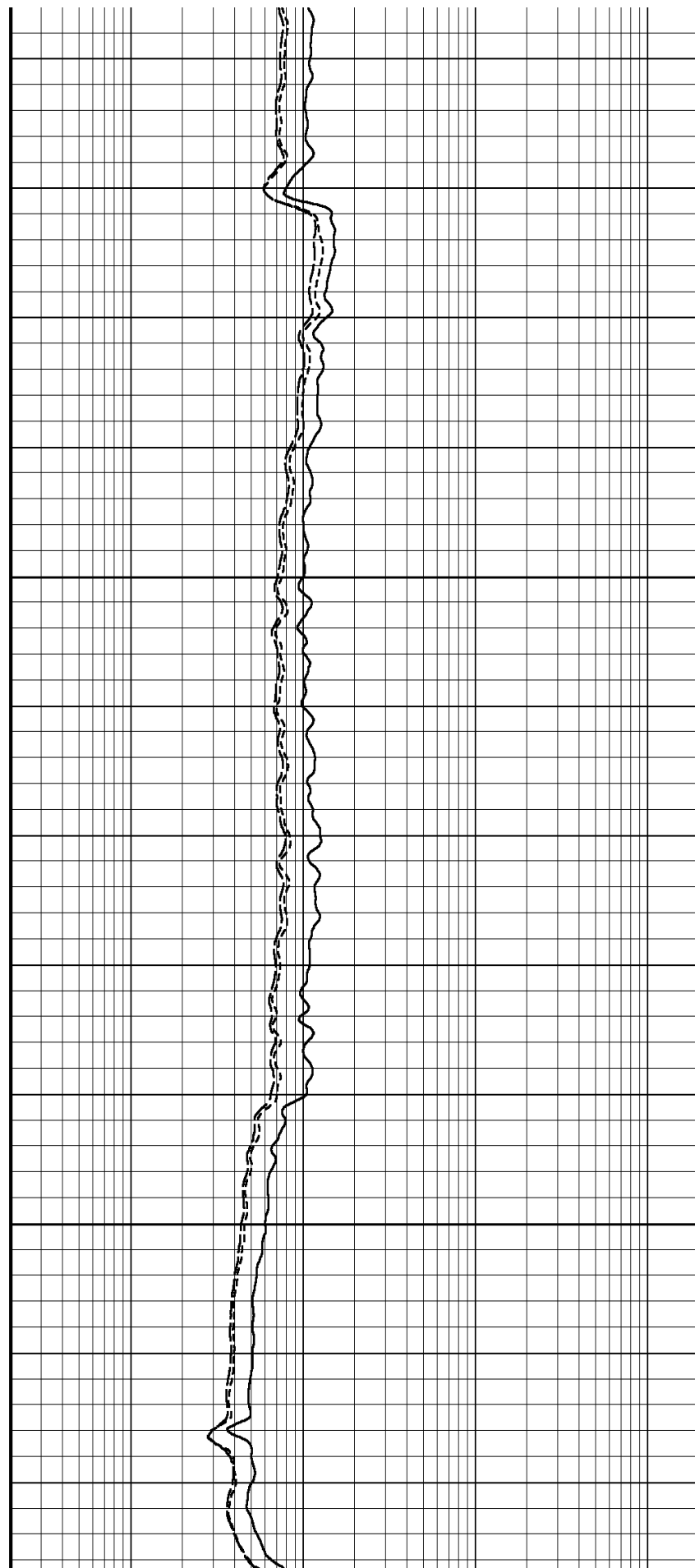
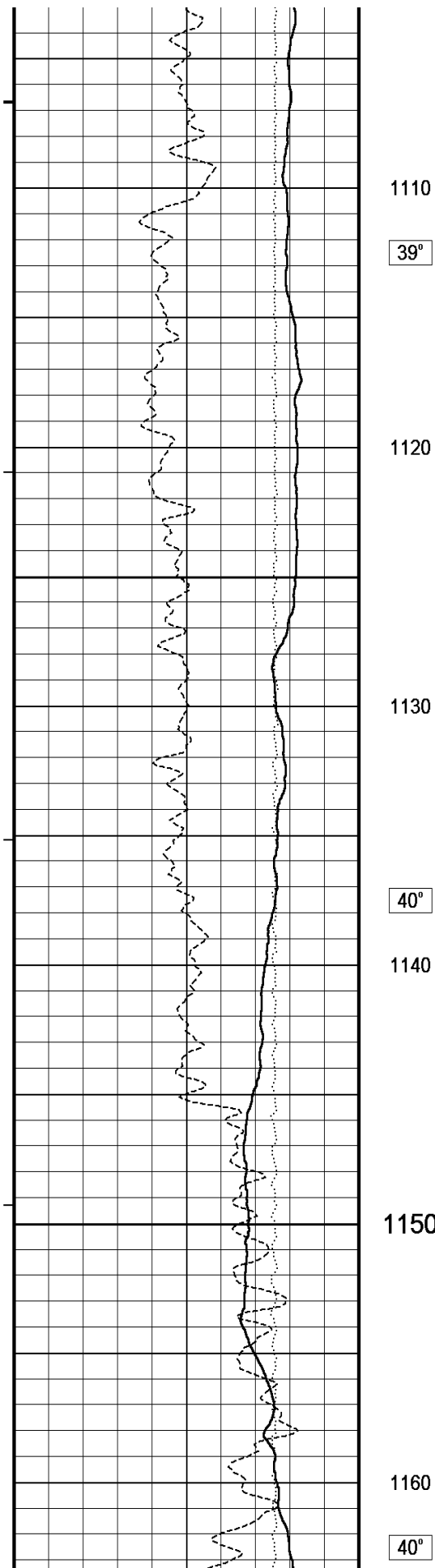
1100

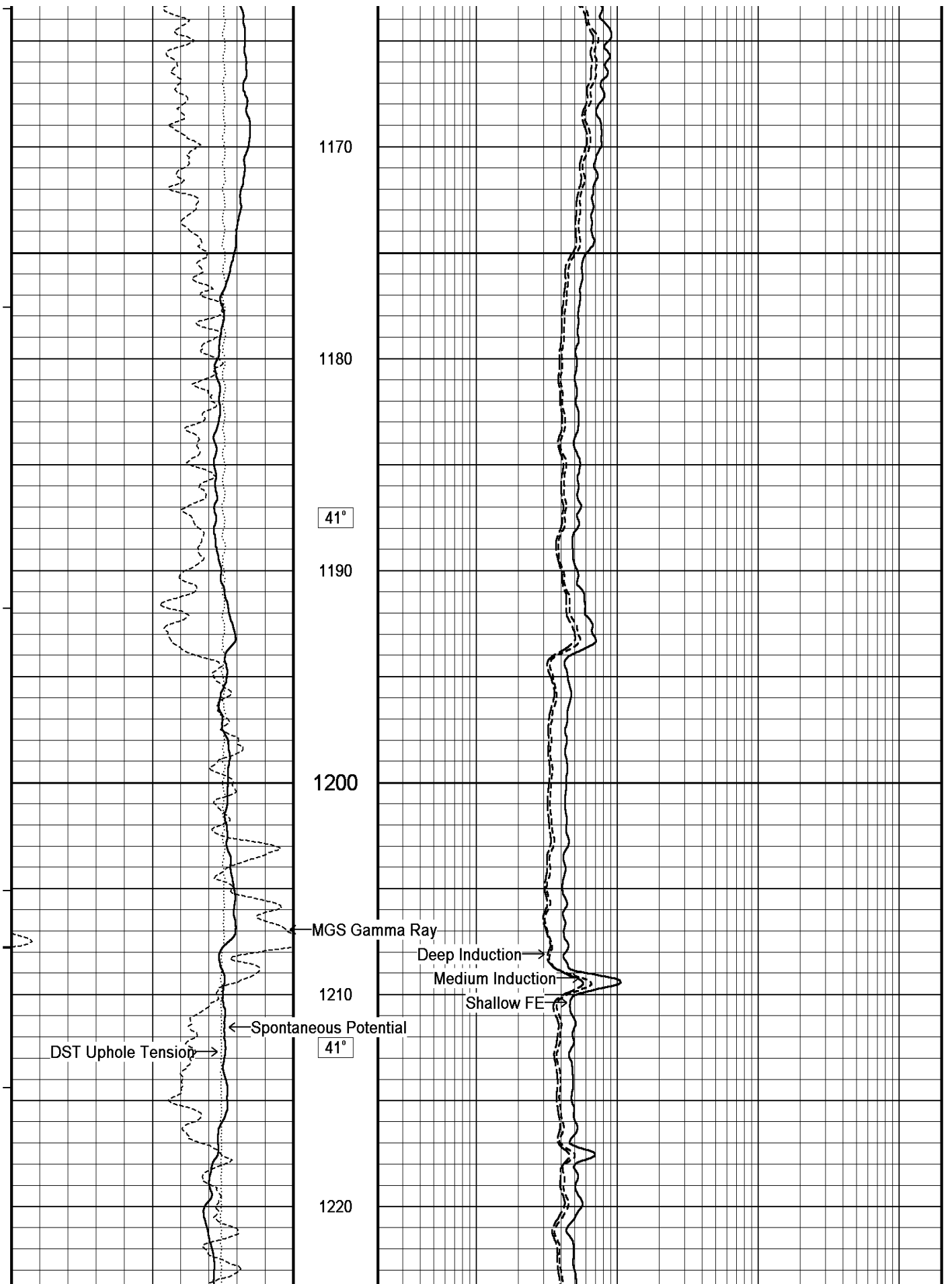


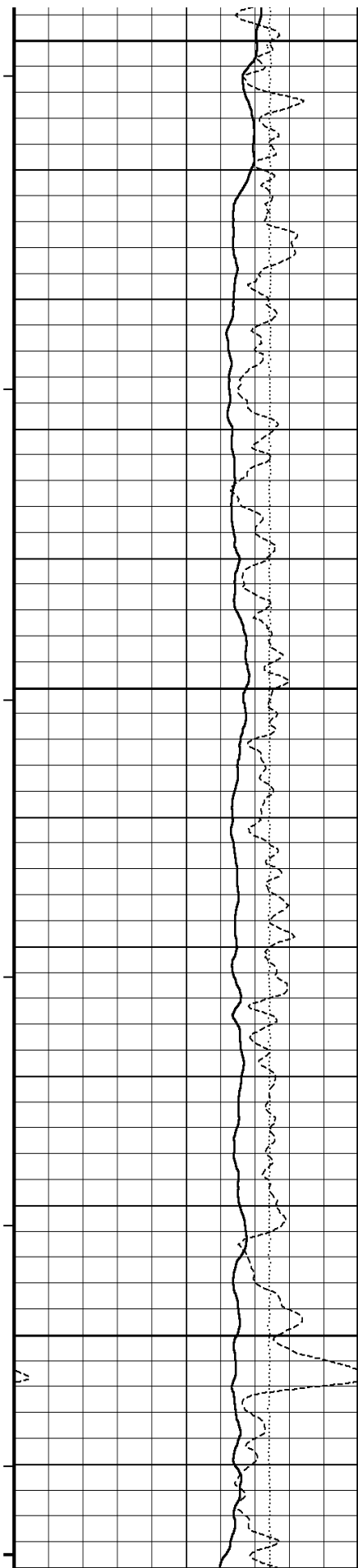
Deep Induction →

Medium Induction →

Shallow FE →







1230

42°

1240

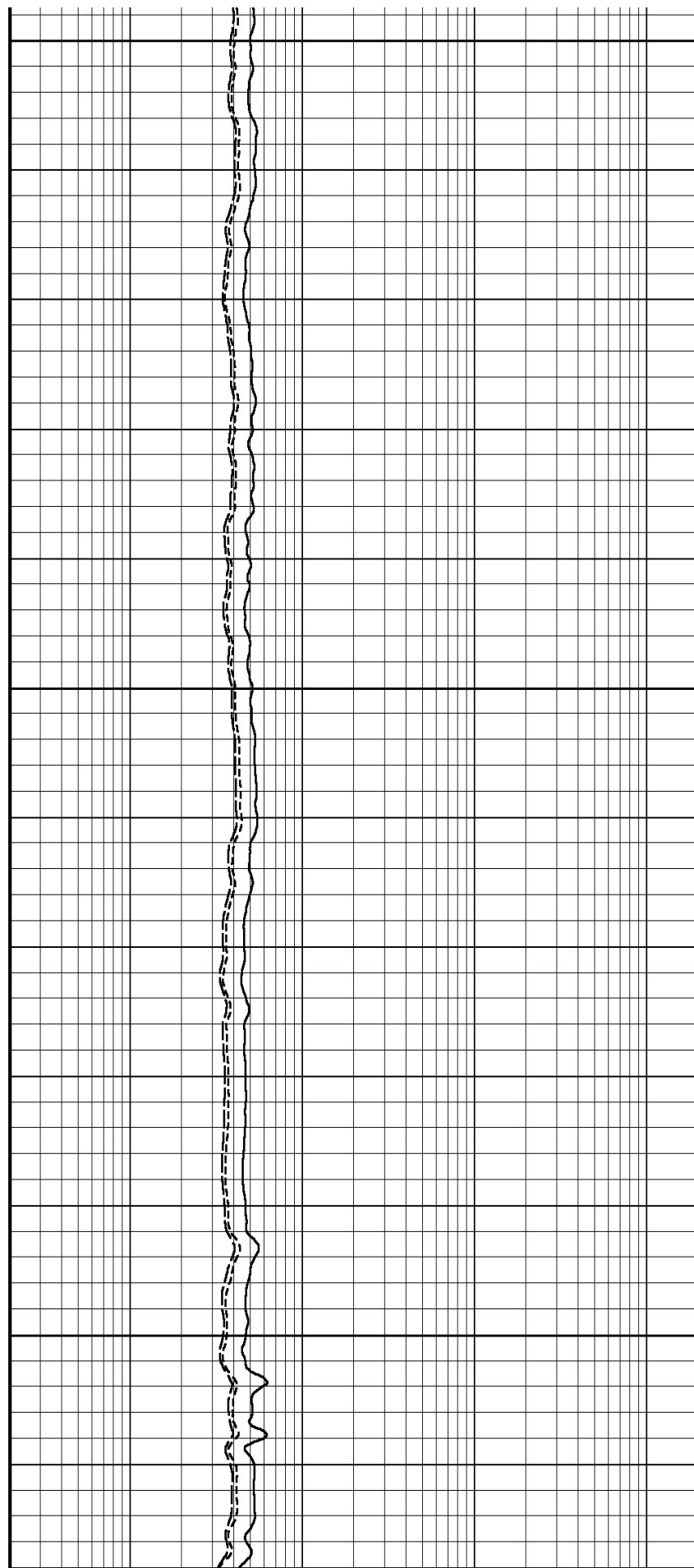
1250

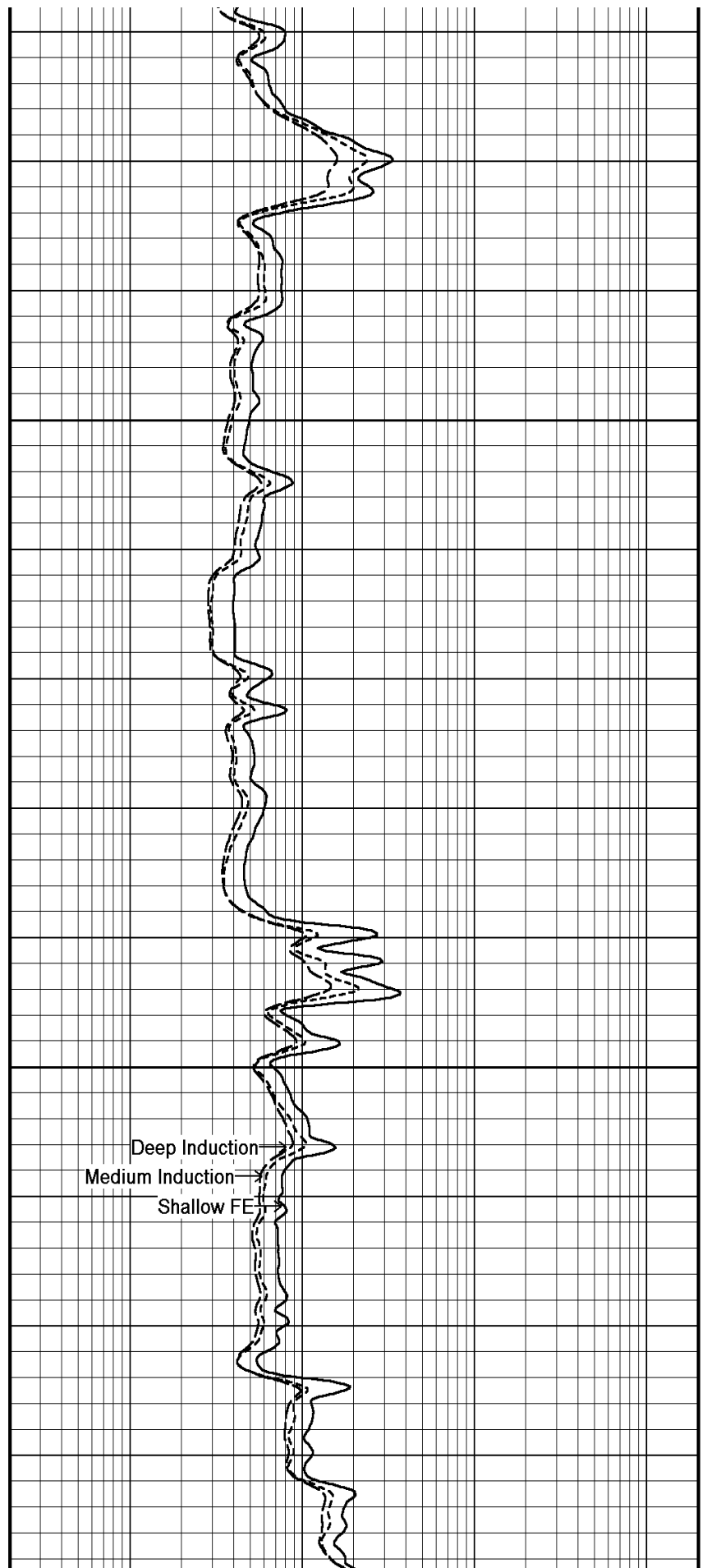
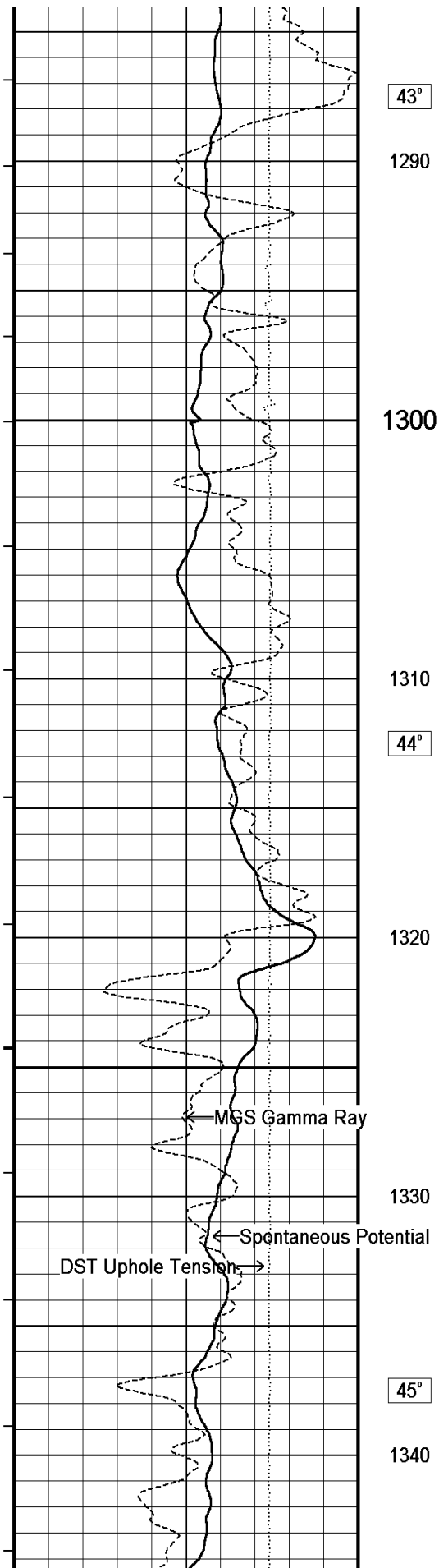
1260

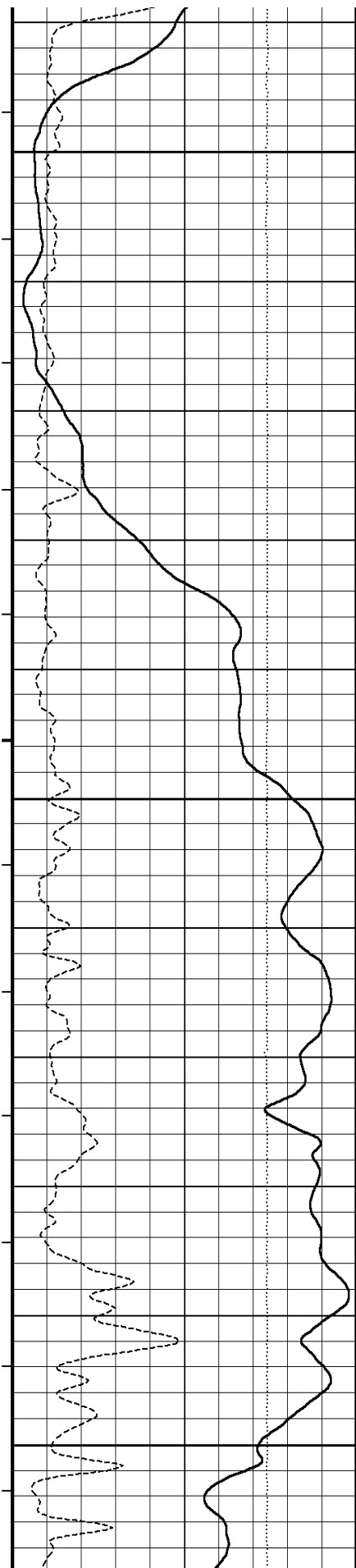
43°

1270

1280







1350

1360

45°

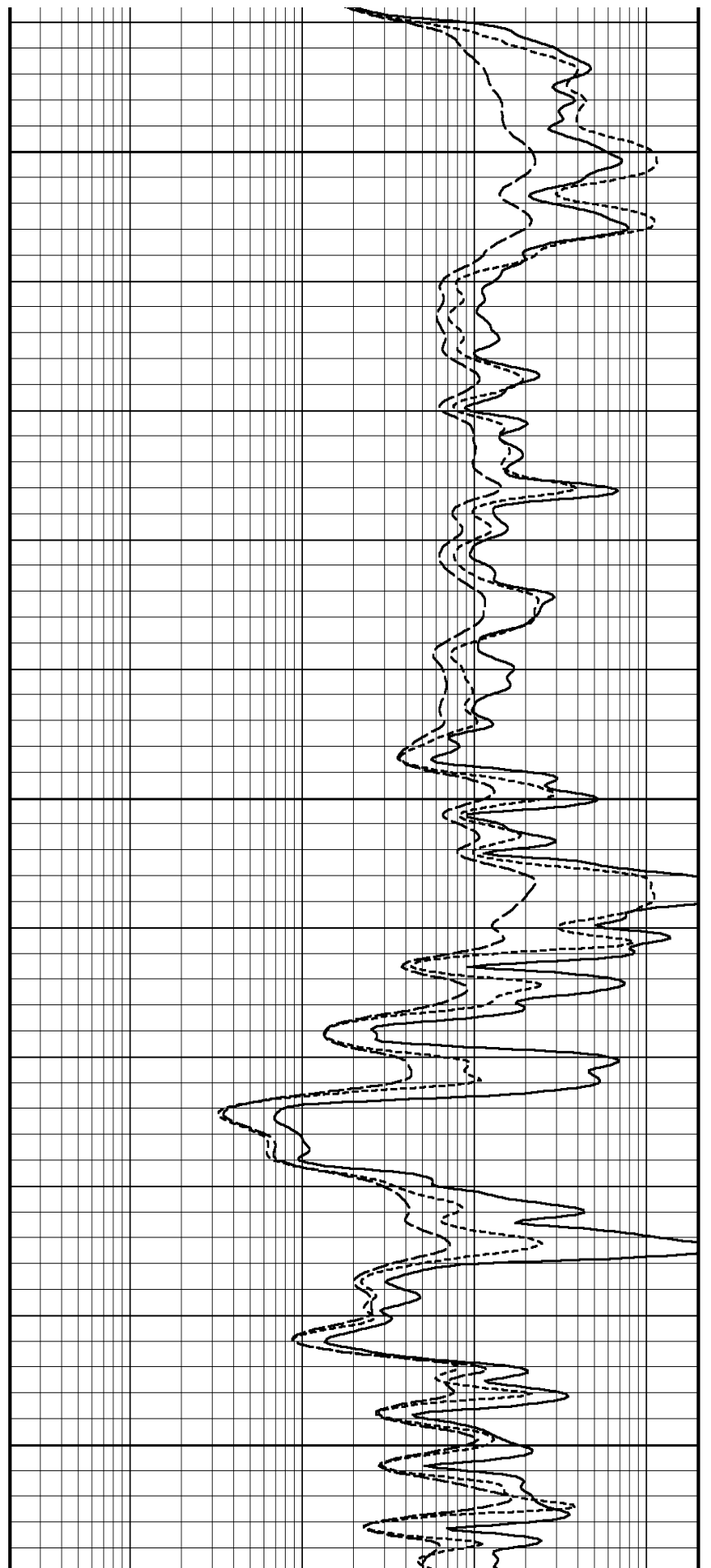
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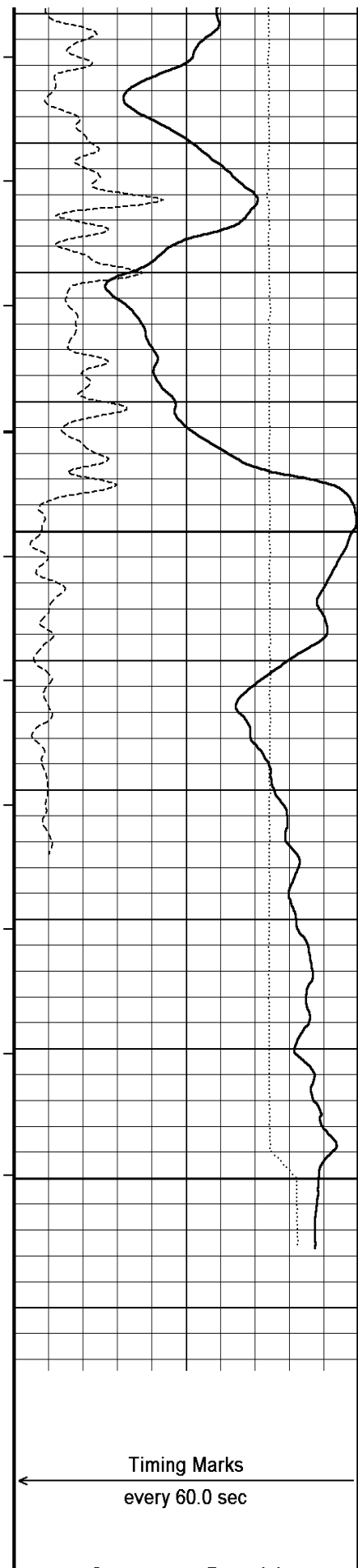
1380

46°

1390

1400





1410

48°

1420

1430

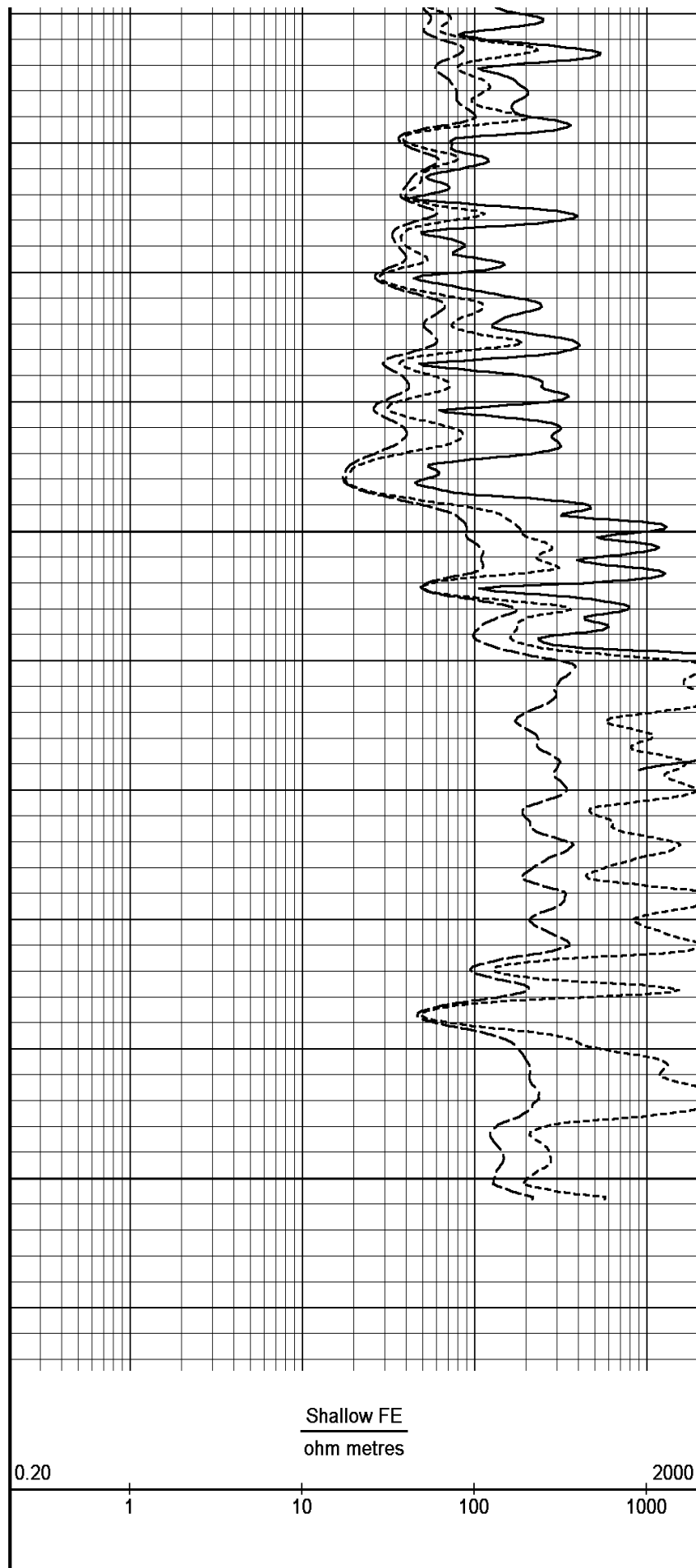
1440

1450

1456

Depth
in
Metres

Timing Marks
every 60.0 sec



Shallow FE
ohm metres

0.20

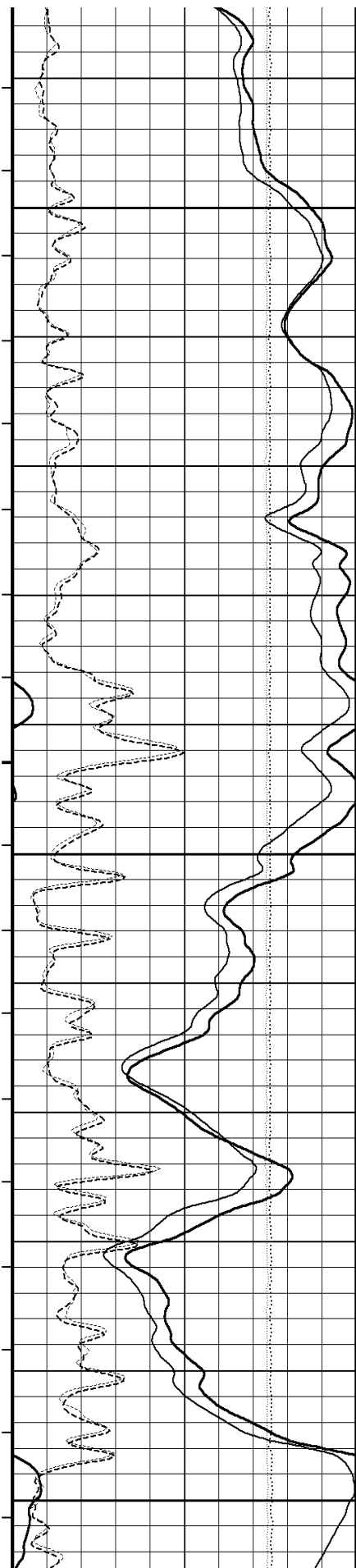
1

10

100

1000

2000



1370

1380

45°

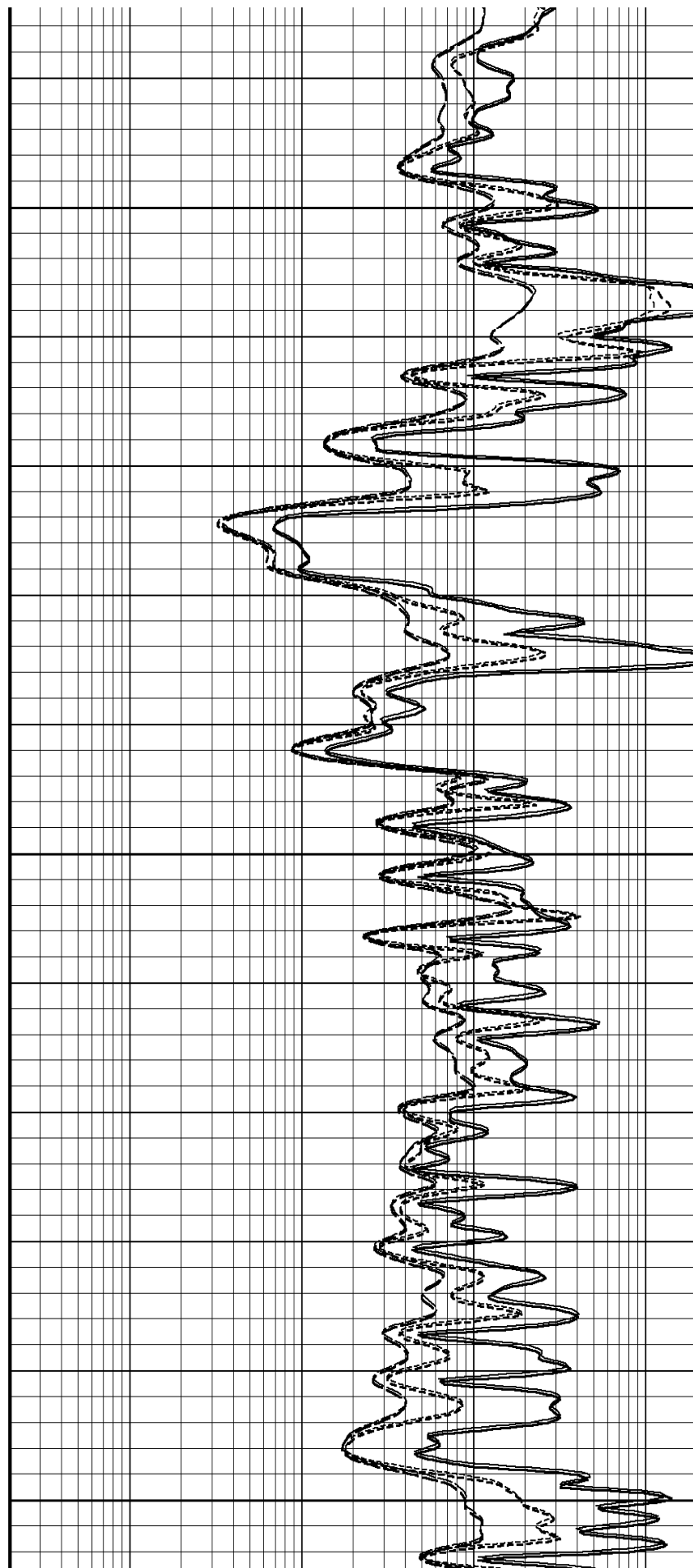
1390

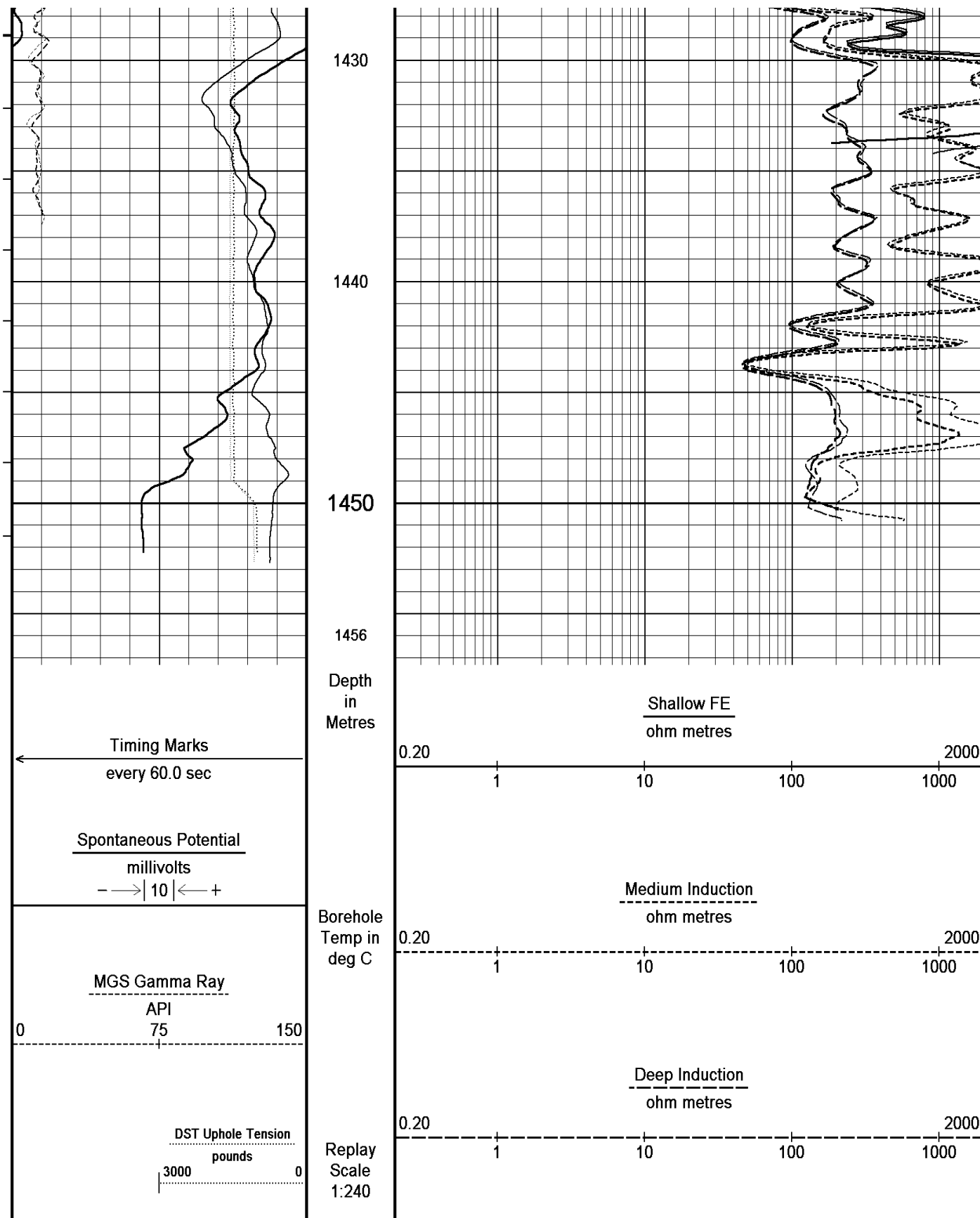
1400

1410

46°

1420





BEFORE SURVEY CALIBRATION

C:\Temp\Weatherford PreView\0\REPEAT.dta

General Constants All 000

Last Edited on 15-FEB-2007,06:48

General Parameters

Mud Resistivity	1.180	ohm-metres
Mud Resistivity Temperature	25.000	degrees C
Water Level	0.000	metres
Density/Neutron Processing	Wet Hole	

Hole/Annular Volume and Differential Caliper Parameters

HVOL Caliper 1	Density Caliper	
HVOL Caliper 2	Y Two Arm Caliper	
Annular Volume Diameter	139.700	mm
Caliper for Differential Caliper	Density Caliper	

Rwa Parameters

Porosity used	Base Density Porosity
Resistivity used	Deep Induction
RWA Constant A	0.610
RWA Constant M	2.150

High Resolution Temperature Calibration MCG 159

Field Calibration on 28-NOV-2006,15:40

	Measured	Calibrated(Deg C)
Lower	10.00	10.00
Upper	50.00	50.00

High Resolution Temperature Constants MCG 159

Last Edited on 28-NOV-2006,15:40

Pre-filter Length	11
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FE Calibration MFE 017

Base Calibration on 14-FEB-2007 07:09

Field Check on

Base Calibration

	Measured	Calibrated (ohm-m)
Reference 1	0.0	0.0
Reference 2	971.4	126.8
Base Check		279.4
Field Check		0.0

FE Constants MFE 017

Last Edited on 15-FEB-2007,04:52

Caliper Source for FE correction	Density Caliper
Rm Source for FE correction	Temperature Corr
Temp. for Rm Corr.	MCG External Temperature
Stand-off	Centred
	millimetres

Gamma Calibration MGS 010

Field Calibration on 7-FEB-2007,09:09

	Measured	Calibrated (API)
Background	48	31
Calibrator (Gross)	1256	825
Calibrator (Net)	1208	794

Gamma Constants MGS 010

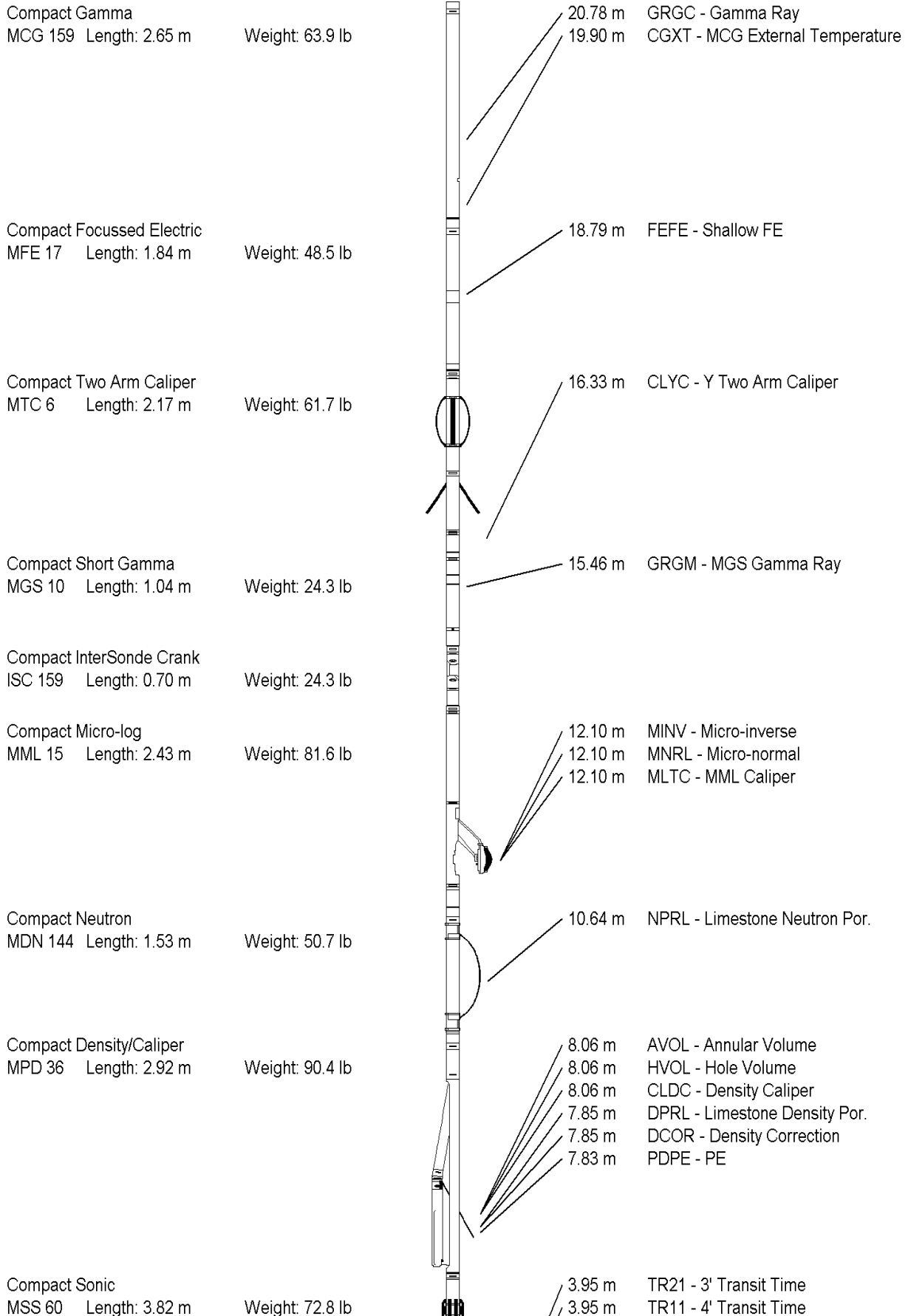
Last Edited on 15-FEB-2007,06:48

Gamma Calibrator Number	grcc075
-------------------------	---------

Mud Density	1060.00	kg/m3
Caliper Source for Processing	Density Caliper	
Tool Position	Centred	
Concentration of KCl	0.00	kppm
Induction Calibration MAI 072		Base Calibration on 25-JAN-2007,18:16 Field Check on 12-FEB-2007 04:15
Base Calibration		
Test Loop Calibration	Measured	Calibrated (mmho/m)
Channel	Low High	Low High
1	13.9 459.6	9.3 966.2
2	5.3 373.2	7.6 821.4
3	2.9 254.1	5.2 566.0
4	1.3 130.4	2.6 279.2
Array Temperature	18.5	Deg C
Channel	Base Check (mmho/m)	Field Check (mmho/m)
	Low High	Low High
1	18.0 3925.2	20.2 3926.2
2	31.0 3598.6	32.7 3599.2
3	29.0 3101.3	30.3 3102.2
4	20.3 2105.9	21.3 2106.6
Deep	18.4 2019.9	19.4 2021.1
Medium	40.9 4089.6	42.6 4090.6
Shallow	45.6 5324.4	48.1 5324.5
Array Temperature	18.5	22.2 Deg C
Induction Constants MAI 072		Last Edited on 7-FEB-2007,09:11
Induction Model	VECTAR	
Caliper for Borehole Corr.	Y Two Arm Caliper	
Hole Size for Borehole Correction	N/A	millimetres
Stand-off	25.40	millimetres
Number of Fins on Stand-off	5.0000	
Stand-off Fin Width	25.4000	millimetres
Borehole Corr. Rm Source	Temperature Corr	
Temp. for Rm Corr.	MCG External Temperature	
Squasher Start	0.0020	mhos/metre
Borehole Normalisation		
DRM1	0.0000	DRC1 0.0000
DRM2	0.0000	DRC2 0.0000
MRM1	0.0000	MRC1 0.0000
MRM2	0.0000	MRC2 0.0000
SRM1	0.0000	SRC1 0.0000
SRM2	0.0000	SRC2 0.0000
Calibration Site Corrections		
Channel 1	0.00	mmhos/metre
Channel 2	0.00	mmhos/metre
Channel 3	0.00	mmhos/metre
Channel 4	0.00	mmhos/metre
Apparent Porosity and Water Saturation Constants		
Archie Constant (A)	1.00	
Cementation Exponent (M)	2.00	
Saturation Exponent (N)	2.00	
Saturation of Water for Apor	100.00	percent
Resistivity of Water for Apor and Sw	0.05	ohm-m
Resistivity of Mud Filtrate for Sw	0.00	ohm-m

DOWNHOLE EQUIPMENT

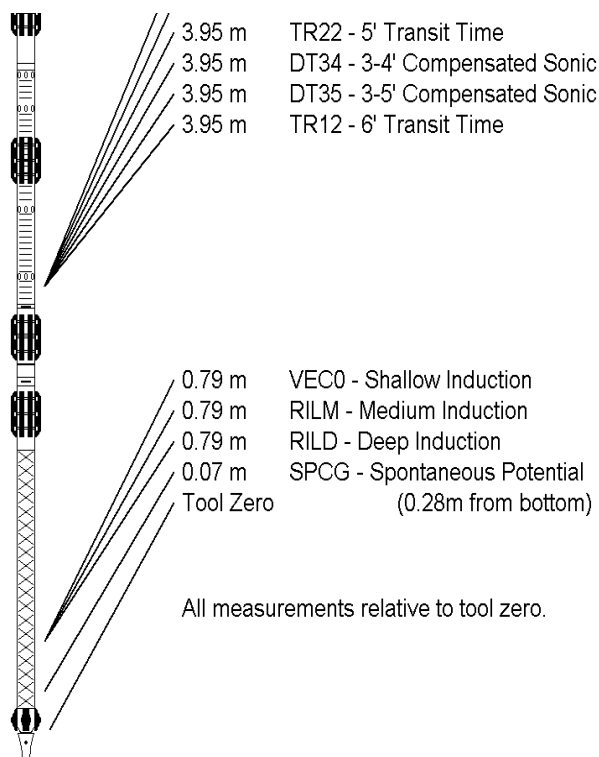
C:\Temp\Weatherford PreView\0\REPEAT.dta



Compact Induction
MAI 72 Length: 3.29 m Weight: 48.5 lb

Compact Hole Finder
HFS 1 Length: 0.24 m Weight: 2.2 lb

Total Length: 22.63 m Weight: 568.8 lb



COMPANY	PARAMOUNT RESOURCES LTD.
WELL	PARAMOUNT ET AL CAMERON J-04
FIELD	CAMERON HILLS
PROVINCE/COUNTY	NORTH WEST TERRITORIES
COUNTRY/STATE	CANADA

Elevation Kelly Bushing	769.20	metres	First Reading	1448.70	metre
Elevation Drill Floor		metres	Depth Driller	1449.00	metres
Elevation Ground Level	765.20	metres	Depth Logger	1449.50	metres



Weatherford®

ARRAY INDUCTION



COMPENSATED SONIC

COMPANY **PARAMOUNT RESOURCES LTD.**
WELL **PARAMOUNT ET AL CAMERON J-04**
FIELD **CAMERON HILLS**
PROVINCE/COUNTY **NORTH WEST TERRITORIES**
COUNTRY/STATE **CANADA**
LOCATION **300/J-04-60-10-117-30**

FIELD PRINT

LSD SEC TWP RGE Other Services

API Number
Permit Number 1159

MICROLOG
ARRAY INDUCTION

PHOTO DENSITY
DUAL SPACED NEUTRON

Permanent Datum GROUND LEVEL, Elevation 765.20 metres

Log Measured From 4.00 M above Permanent Datum

Drilling Measured From KB

Elevations: metres
KB 769.20
DF
GL 765.20

Date	15-FEB-2007	
Run Number	1	
Depth Driller	1449.00	metres
Depth Logger	1449.50	metres
First Reading	1445.50	metre
Last Reading	352.00	metre
Casing Driller	430.00	metres
Casing Logger	429.80	metres
Bit Size	200.00	mm
Hole Fluid Type	GELCHEM	
Density / Viscosity	1060.0 kg/M3	93.00 CP
PH / Fluid Loss	11.00	11.00 ml/30Min
Sample Source	FLOWLINE	
Rm @ Measured Temp	1.18 @ 25.0	ohm-m
Rmf @ Measured Temp	1.04 @ 25.0	ohm-m
Rmc @ Measured Temp	1.32 @ 25.0	ohm-m
Source Rmf / Rmc	PRESS	FILTER
Rm @ BHT	0.78 @ 48.0	ohm-m
Time Since Circulation	6 HRS	
Max Recorded Temp	48.00	deg C
Equipment Name	COMPACT	
Equipment / Base	13124	GPR
Recorded By	G. SINGER	
Witnessed By	A. AHMED	
CIRC. STOP TIME	01:30-FEB-15	Last Line

BOREHOLE RECORD

Last Edited: 15-FEB-2007 05:01

Bit Size millimetres	Depth From metres	Depth To metres
311.000	0.00	430.00
200.000	430.00	1449.00

CASING RECORD

Type	Size millimetres	Depth From metres	Shoe Depth metres	Weight Kg/metre
SURFACE	219.100	0.00	430.00	35.72

REMARKS

- 1) SOFTWARE ISSUE: WLS 7.01.0195.
- 2) CUSTOMER SCALES AND LOGGED INTERVALS USED
- 3) TOOLS RUN: MAI, MSS, MPD, MDN, MML, ISC, MGS, MTC, MFE, MCG RUN IN COMBINATION
- 4) HARDWARE: MAI: TWO 25.4 MM STANDOFFS
MSS: THREE 25.4 MM STANDOFFS
MDN: DUAL BOWSPRING AND INTERSONIC CRANK
MTC: SIX LEAF CENTRALIZER

- 5) SERVICE ORDER #: 30073028 SAP #: 4147101 # FIELD PRINTS = 3
- 6) RIG: PD 129

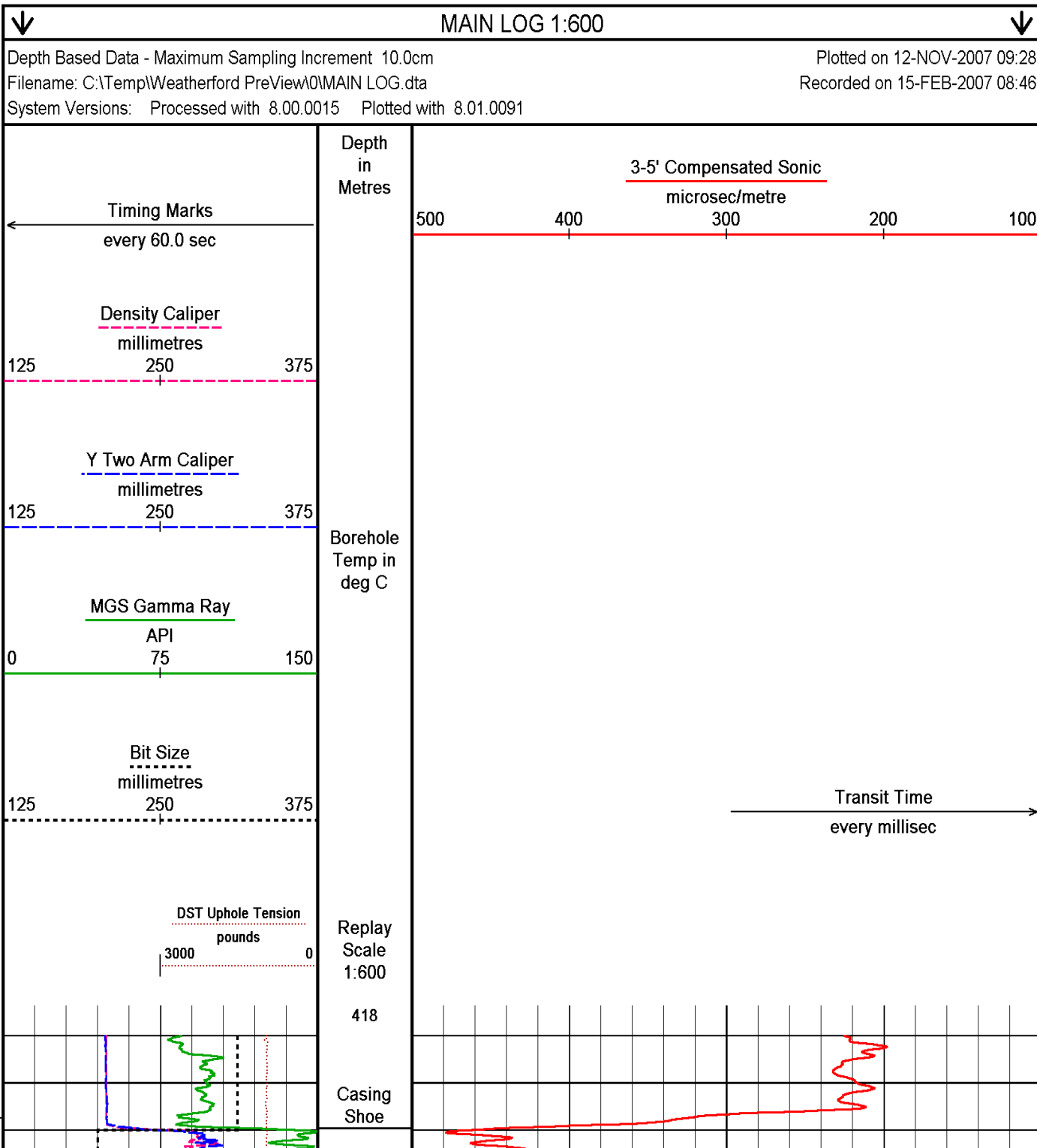
7) HOLE AND CEMENT VOLUMES CALCULATED USING DENSITY AND 2-ARM CALIPERS :

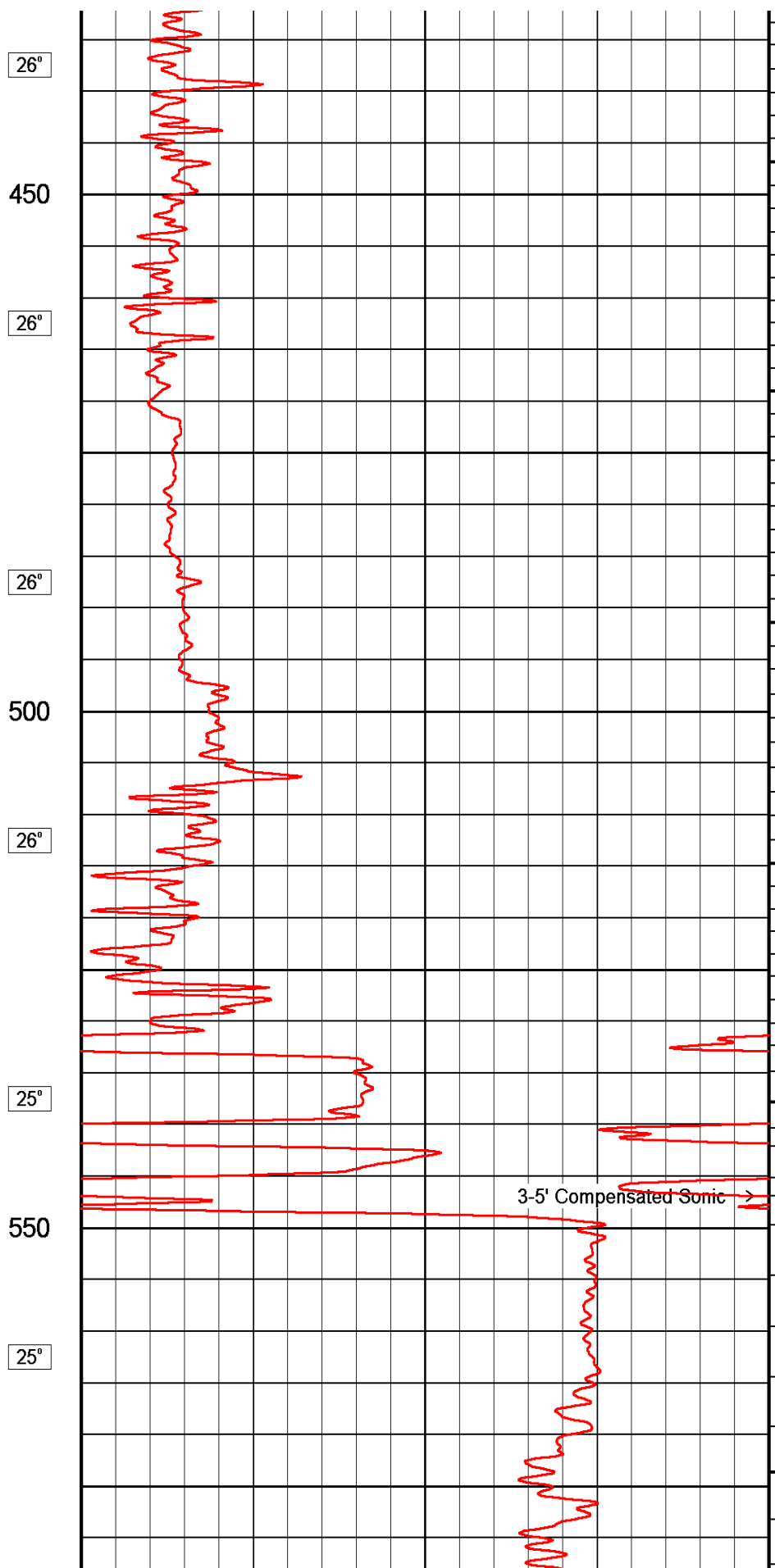
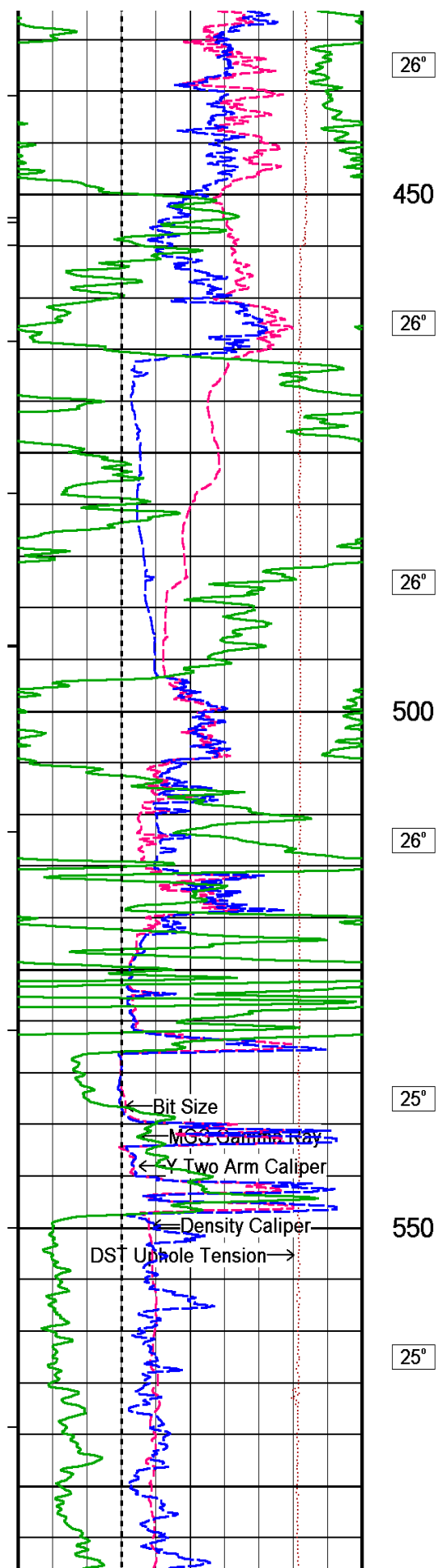
HOLE VOLUME = 37.4 CU.M.

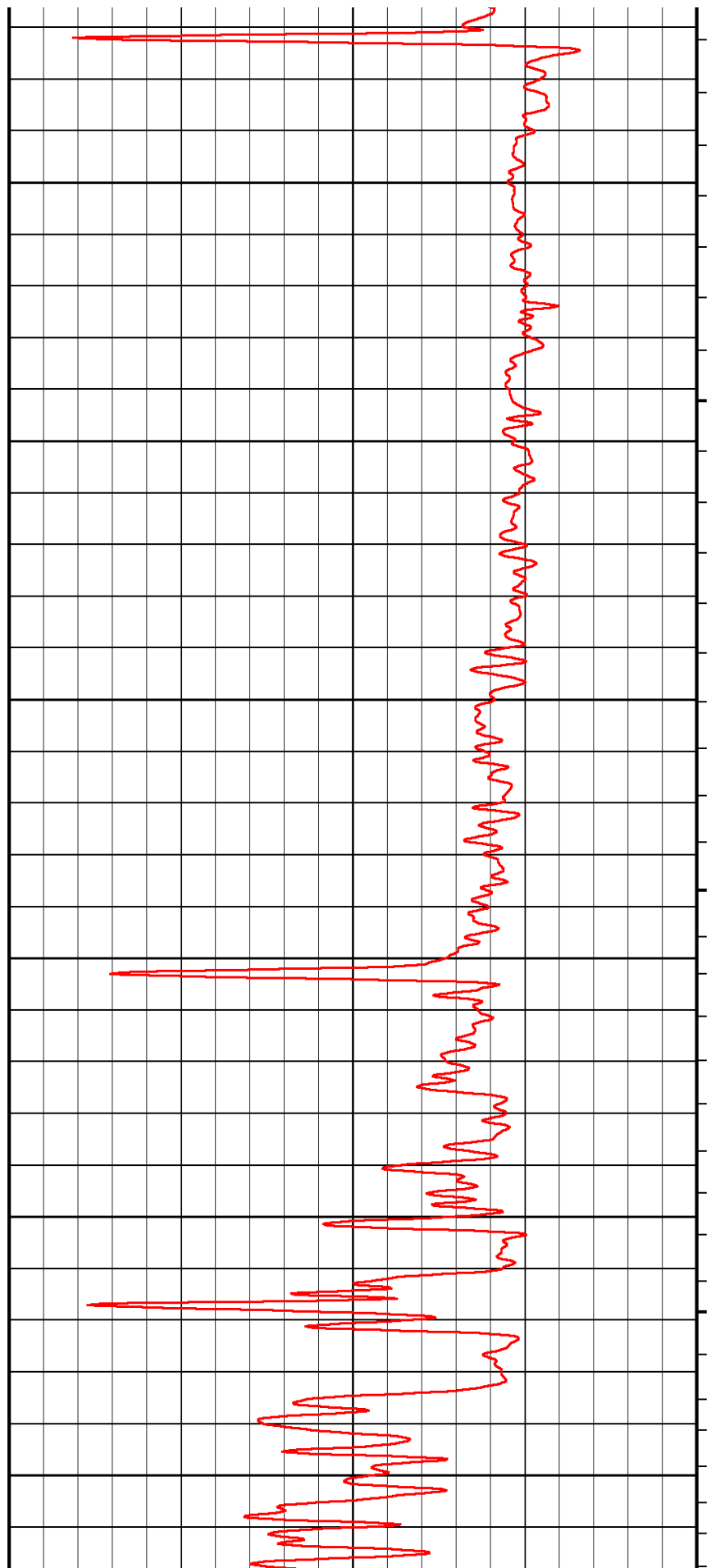
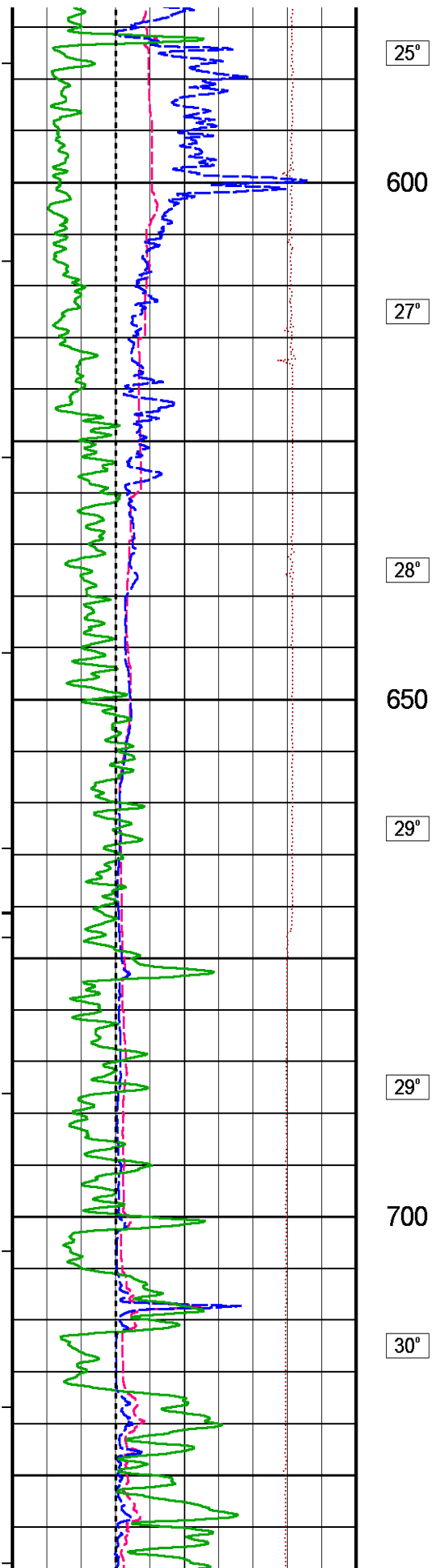
ANNULAR VOLUME USING 139.7 MM PRODUCTION CASING = 21.8 CU.M

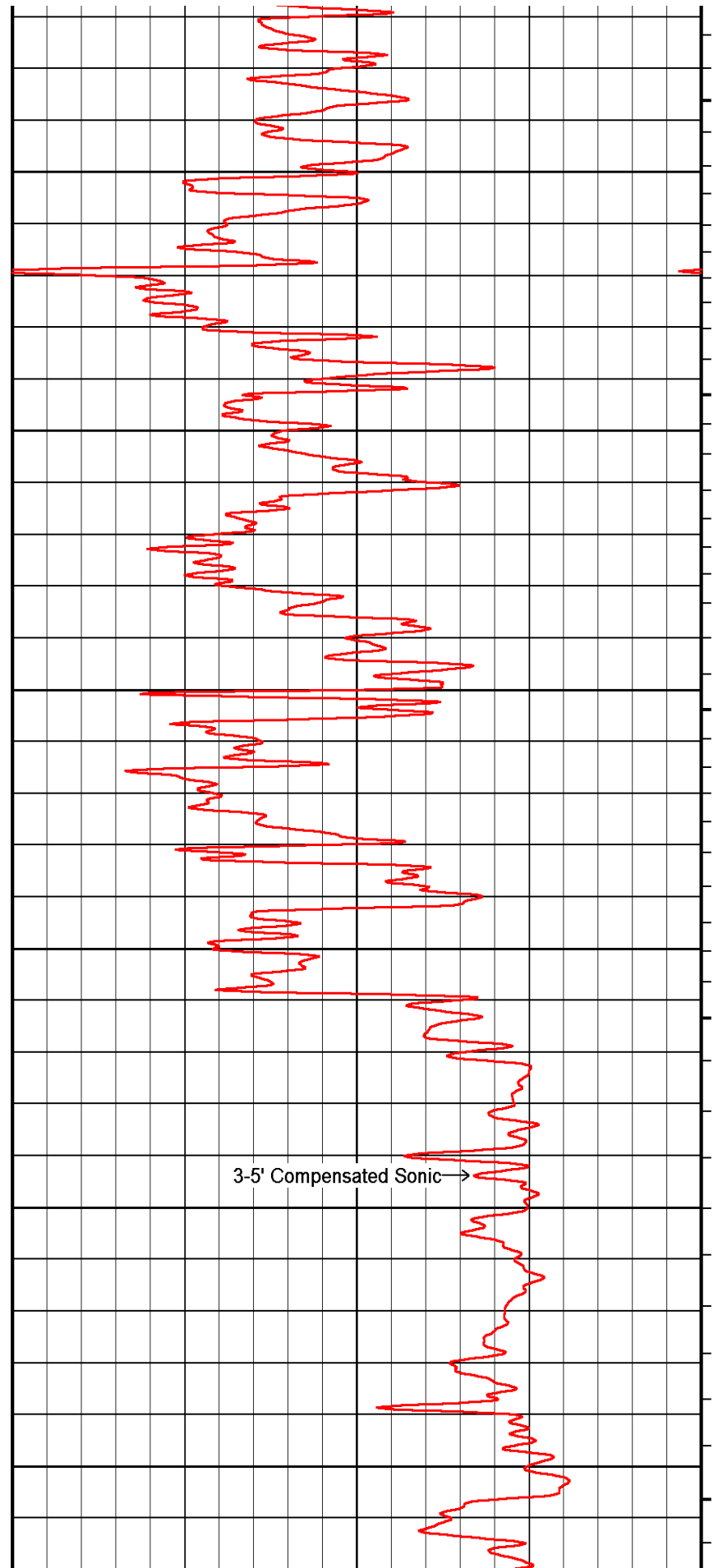
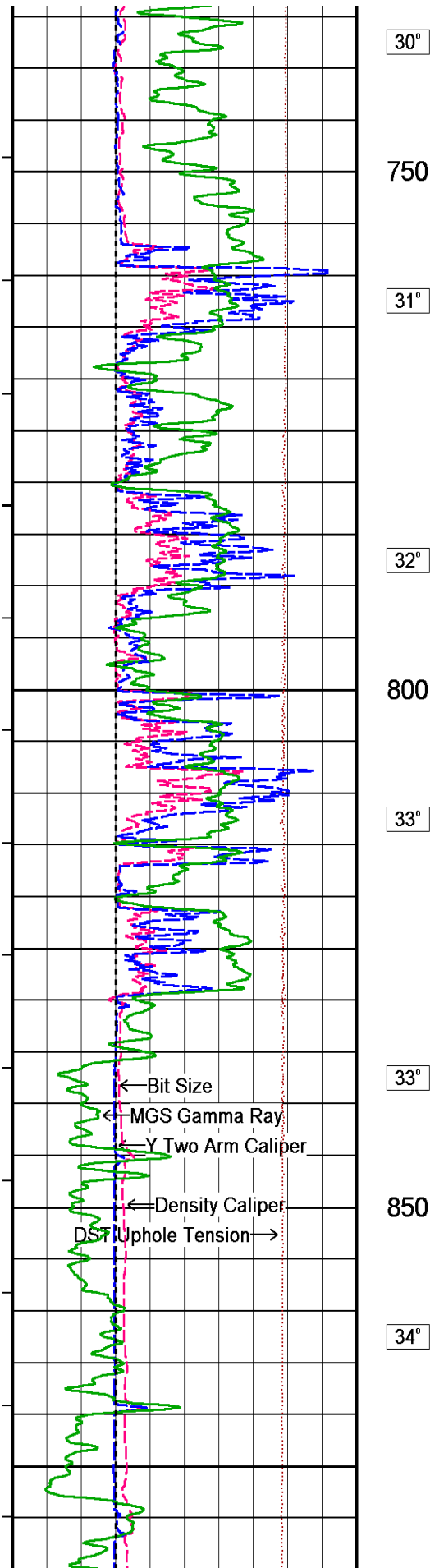
8) SONIC FREE PIPE FOUND FROM 352M - 357M

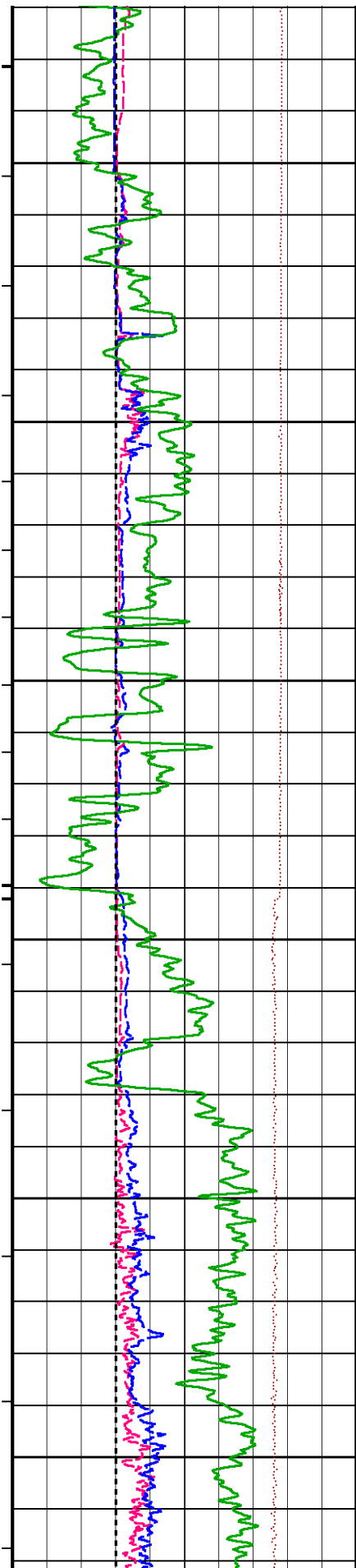
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs,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











34°

900

35°

35°

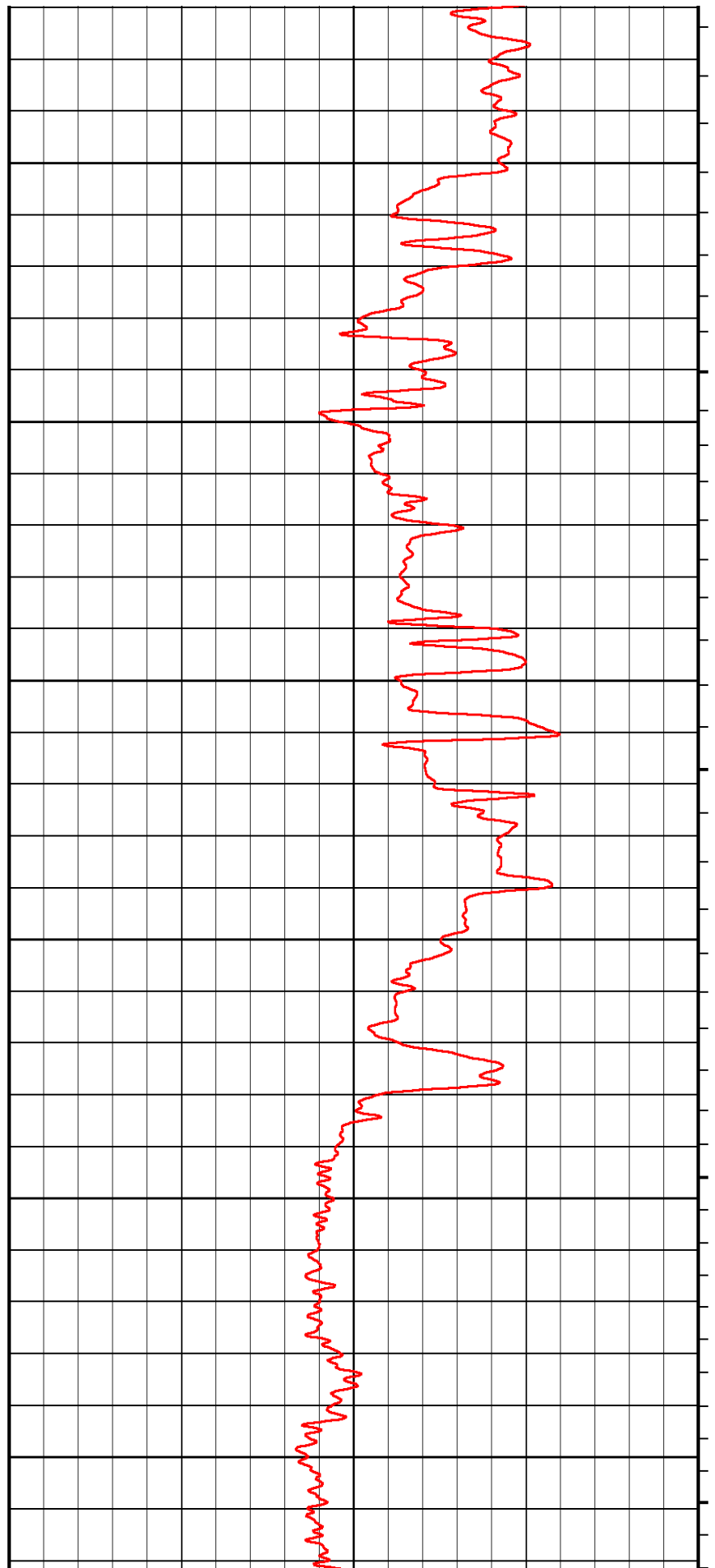
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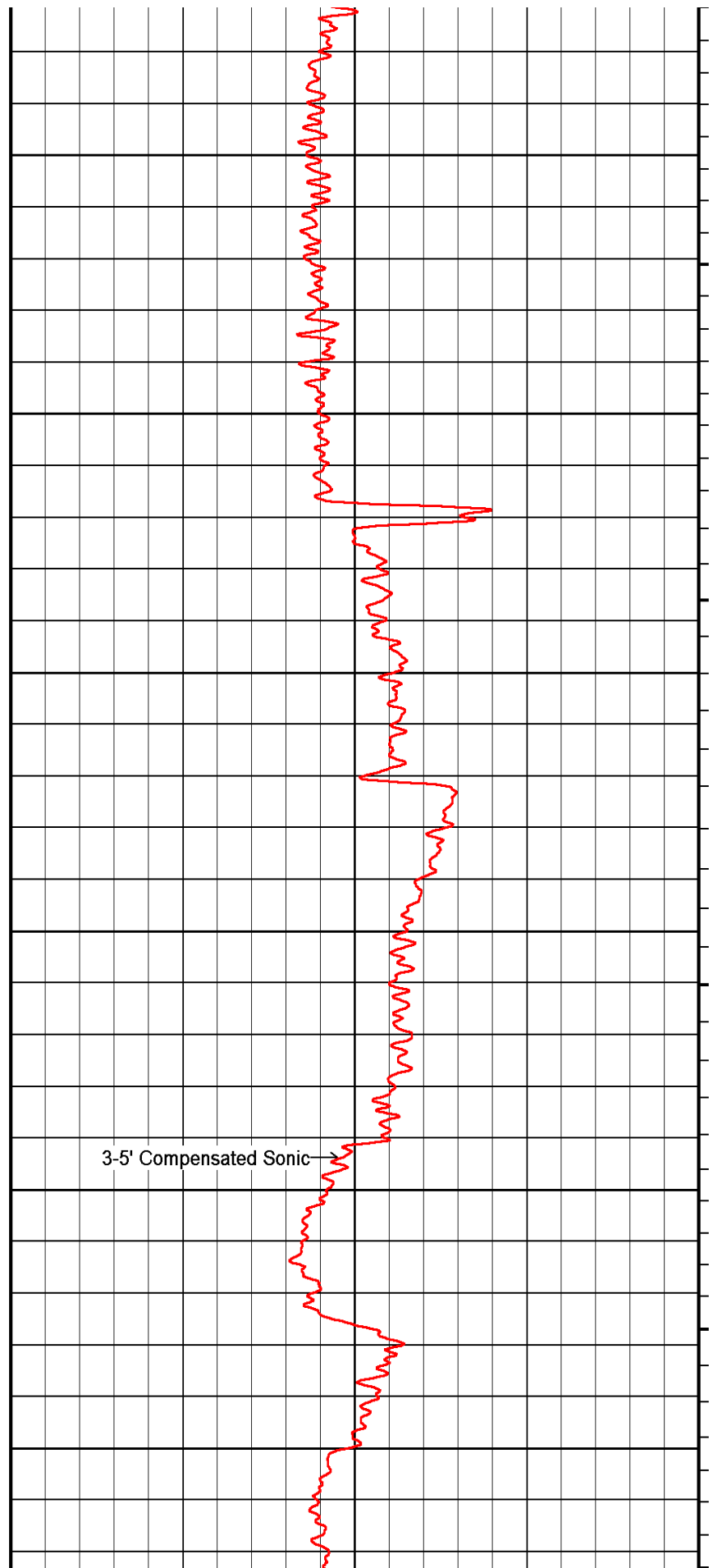
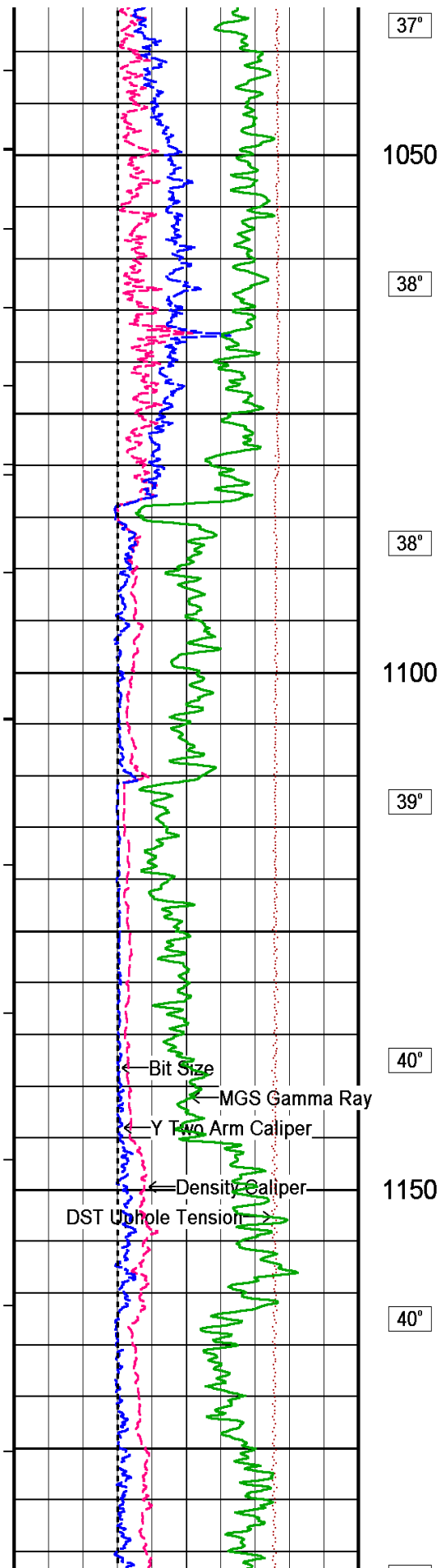
36°

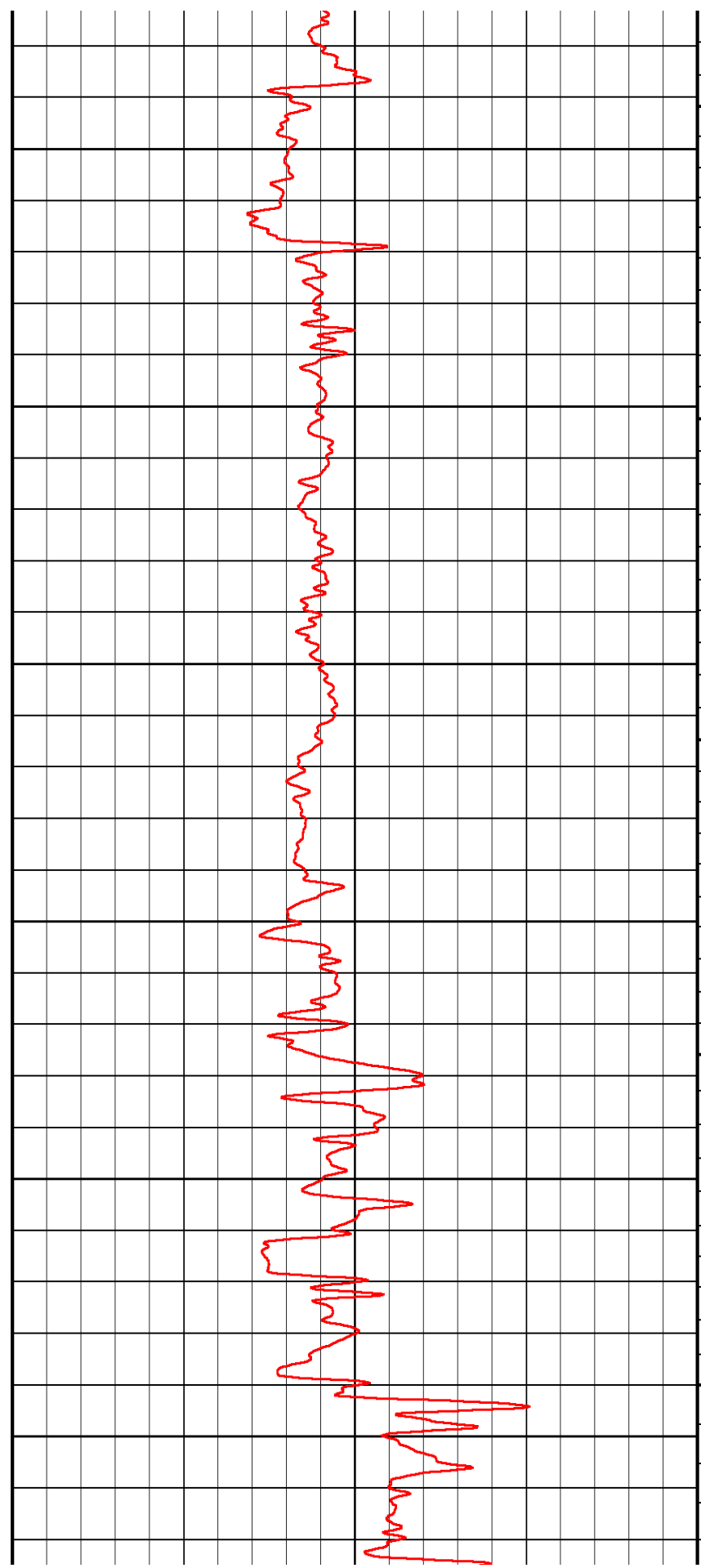
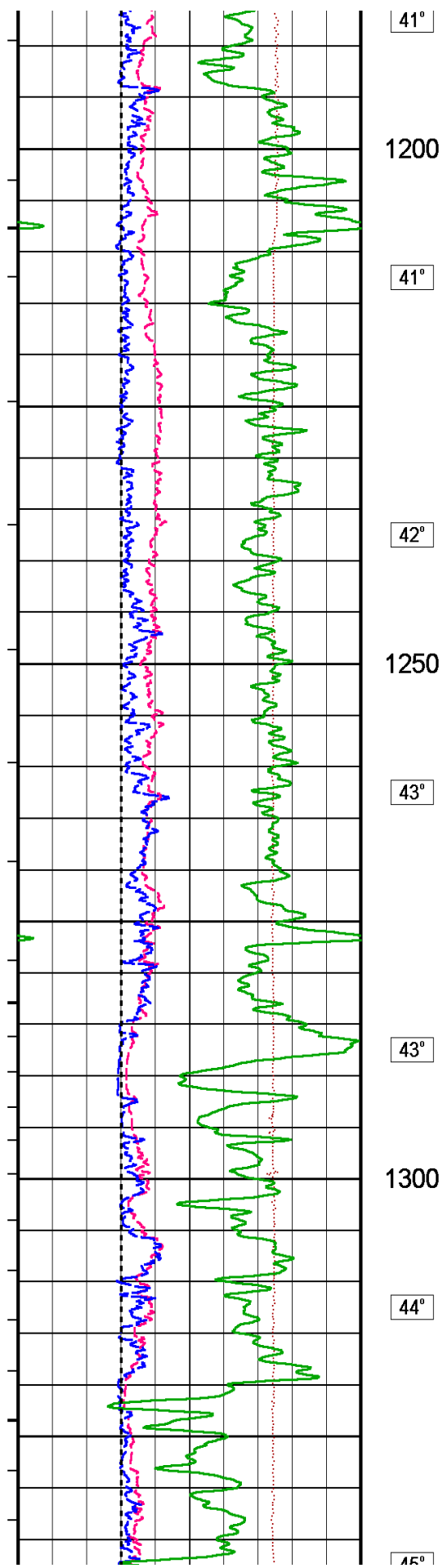
36°

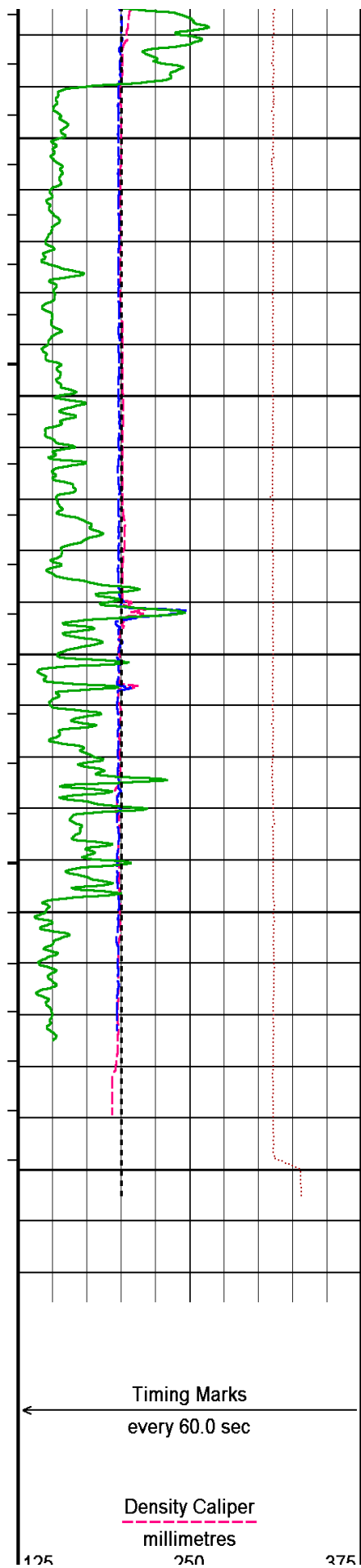
1000

37°



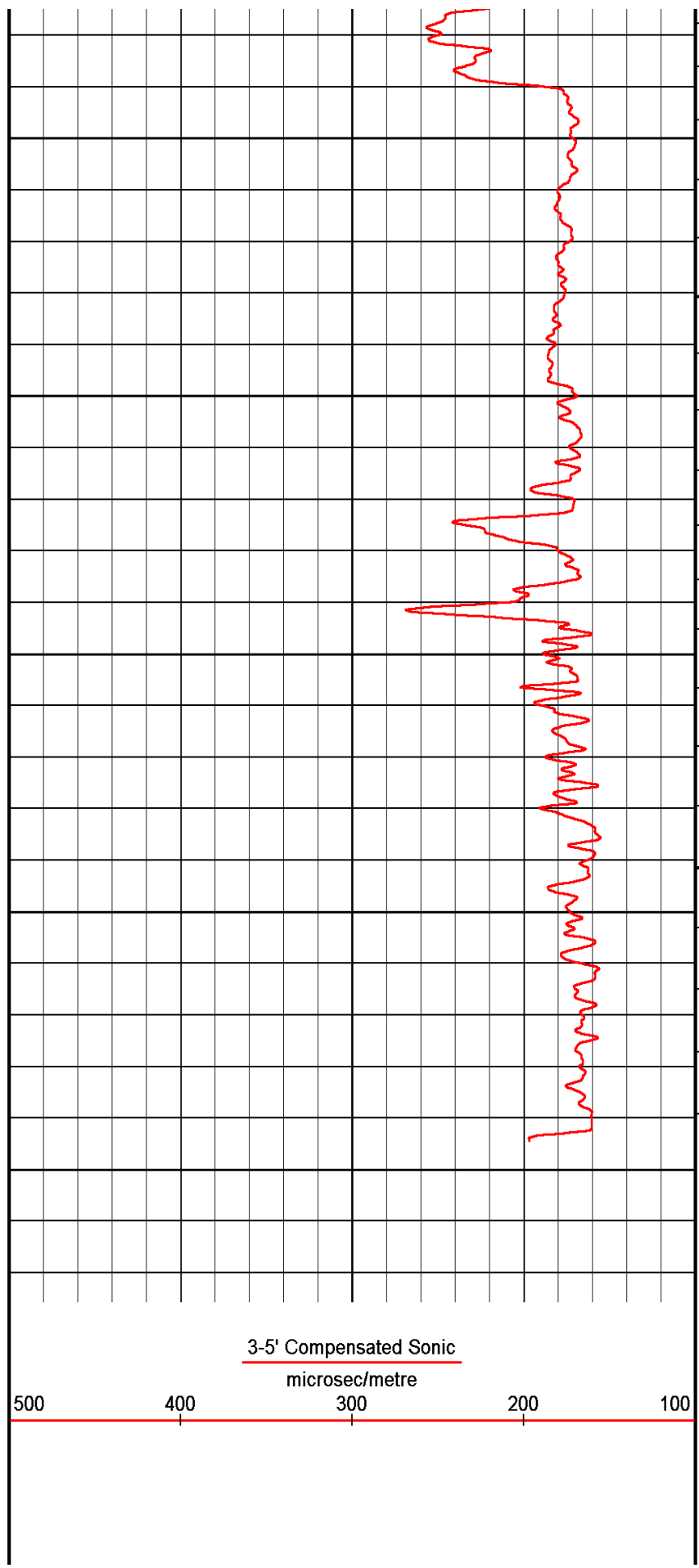


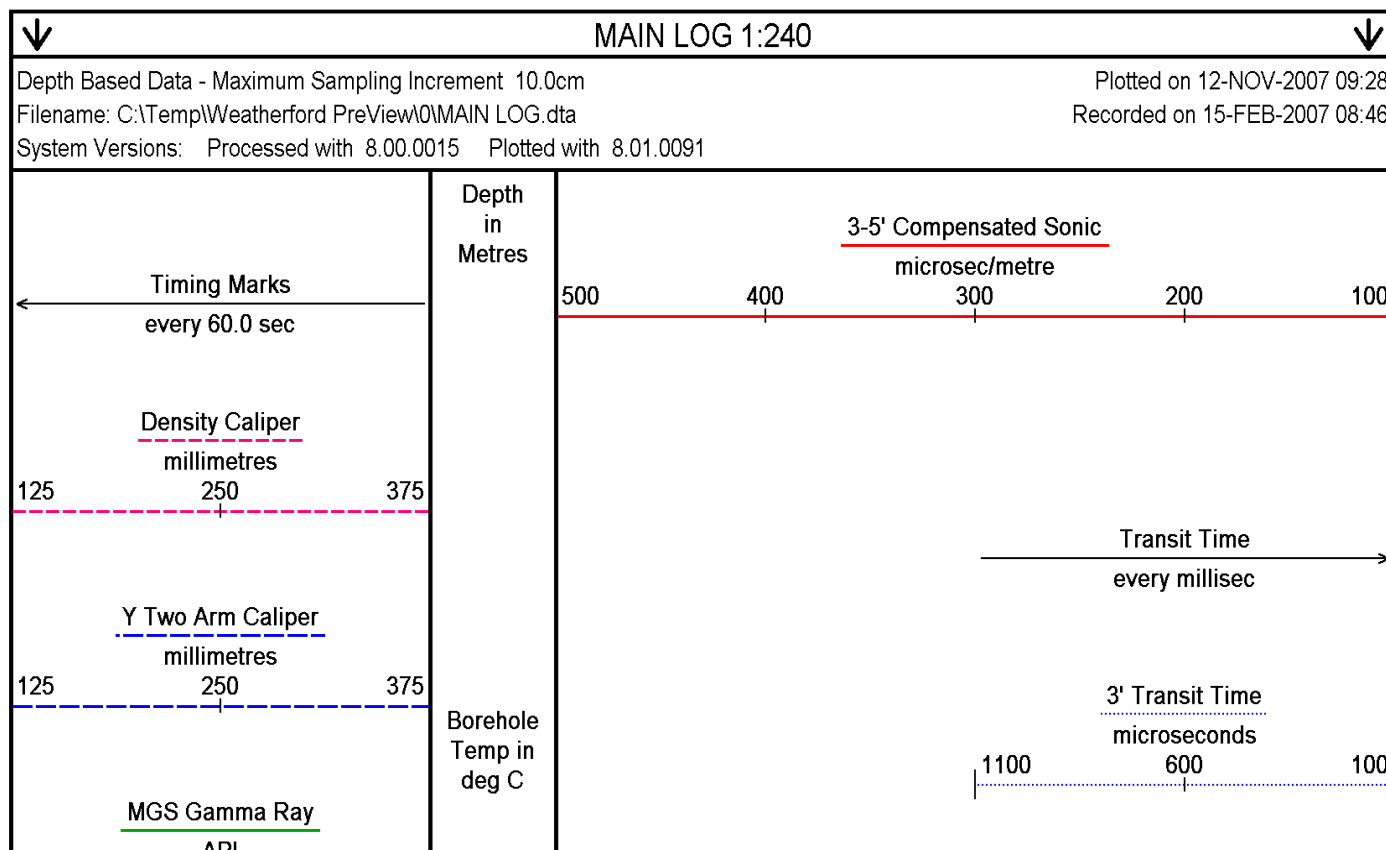
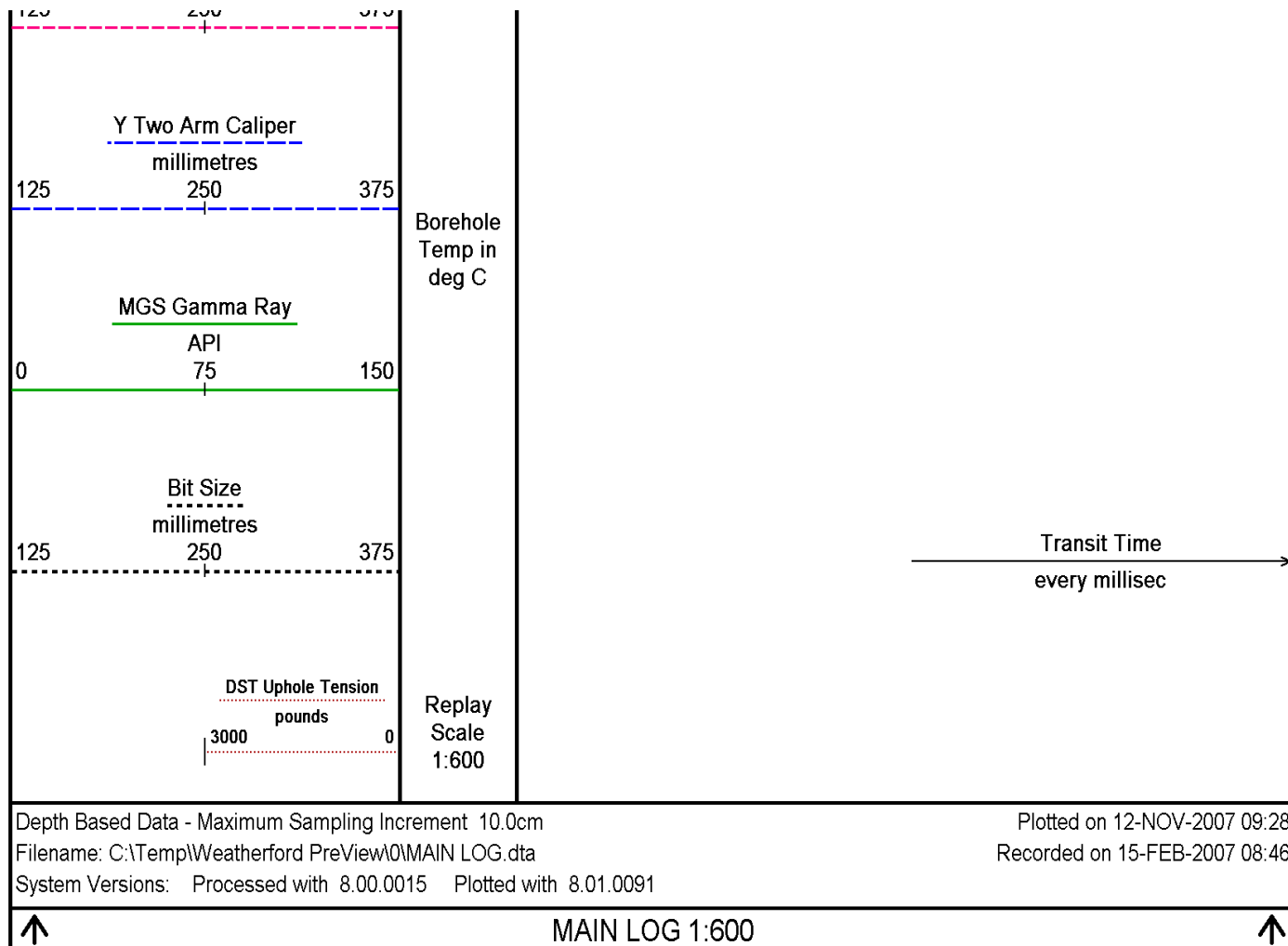


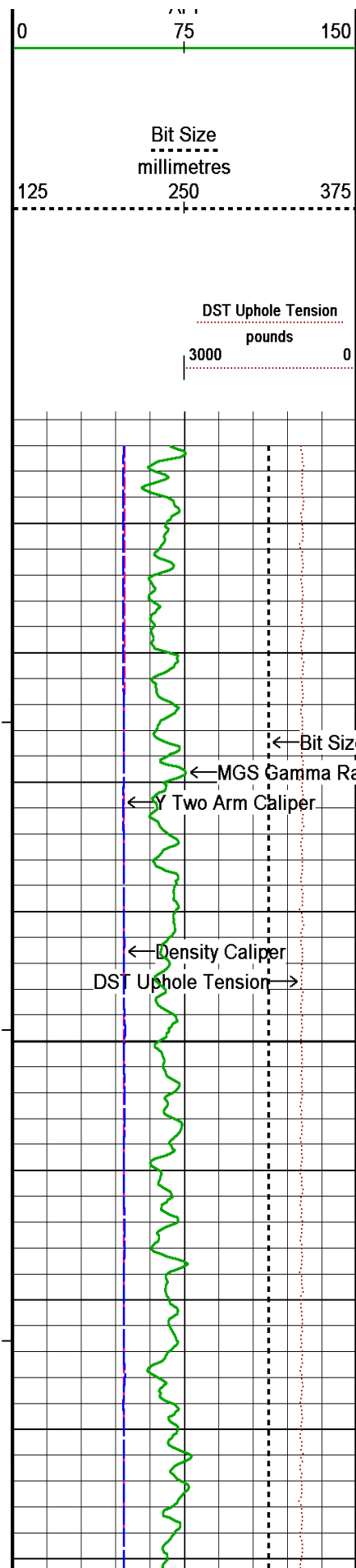


45°
45°
46°
48°

1461
Depth
in
Metres







Replay Scale
1:240

352

360

25°

370

380

26°

390

← Bit Size

← MGS Gamma Ray

← Y Two Arm Caliper

← Density Caliper

DST Uphole Tension →

4' Transit Time
microseconds

1100 600 100

5' Transit Time
microseconds

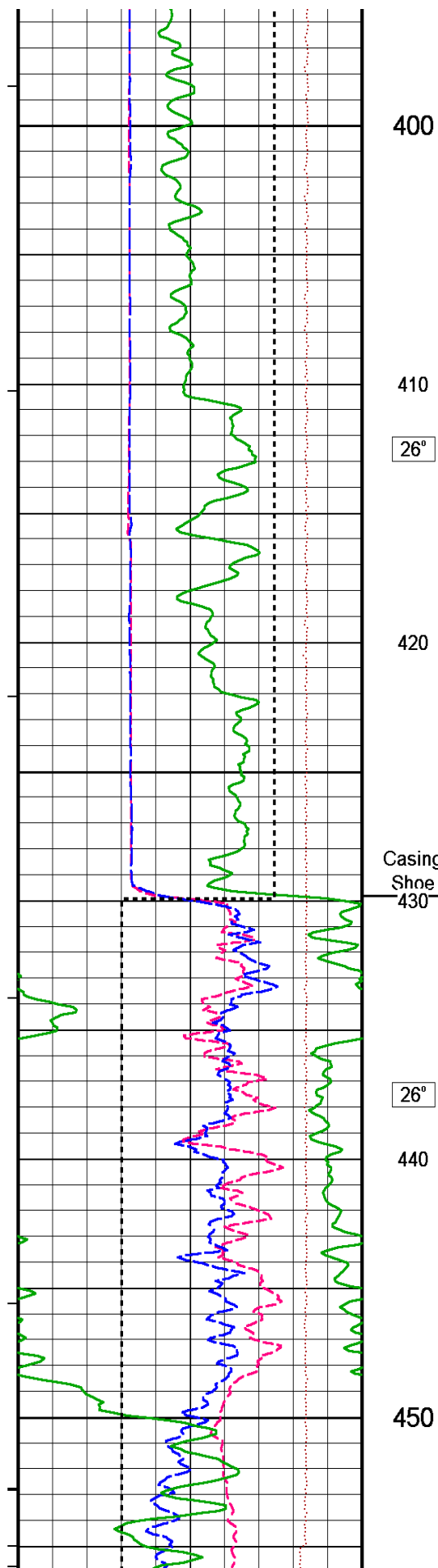
1100 600 100

3-5' Compensated Sonic →

5' Transit Time →

4' Transit Time →

3' Transit Time →



400

410

26°

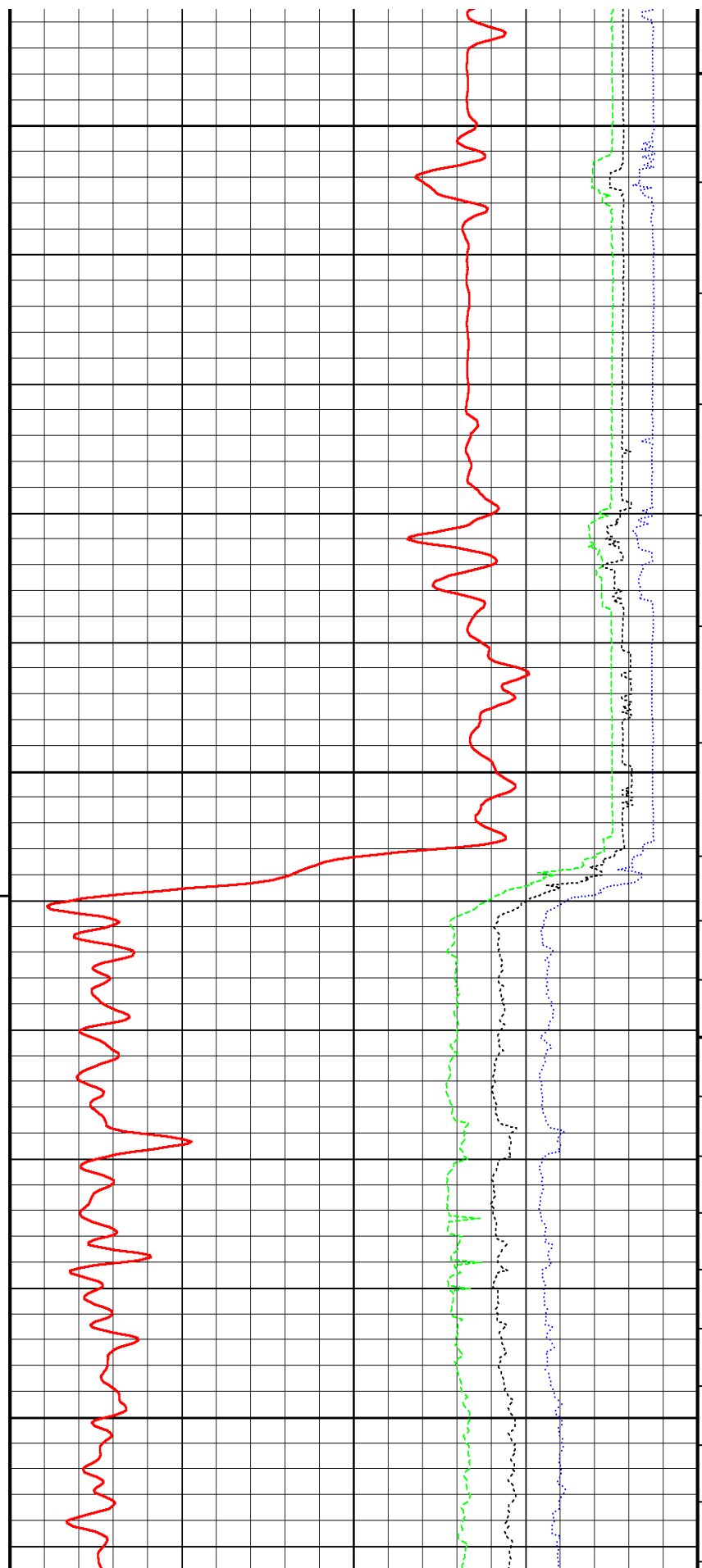
420

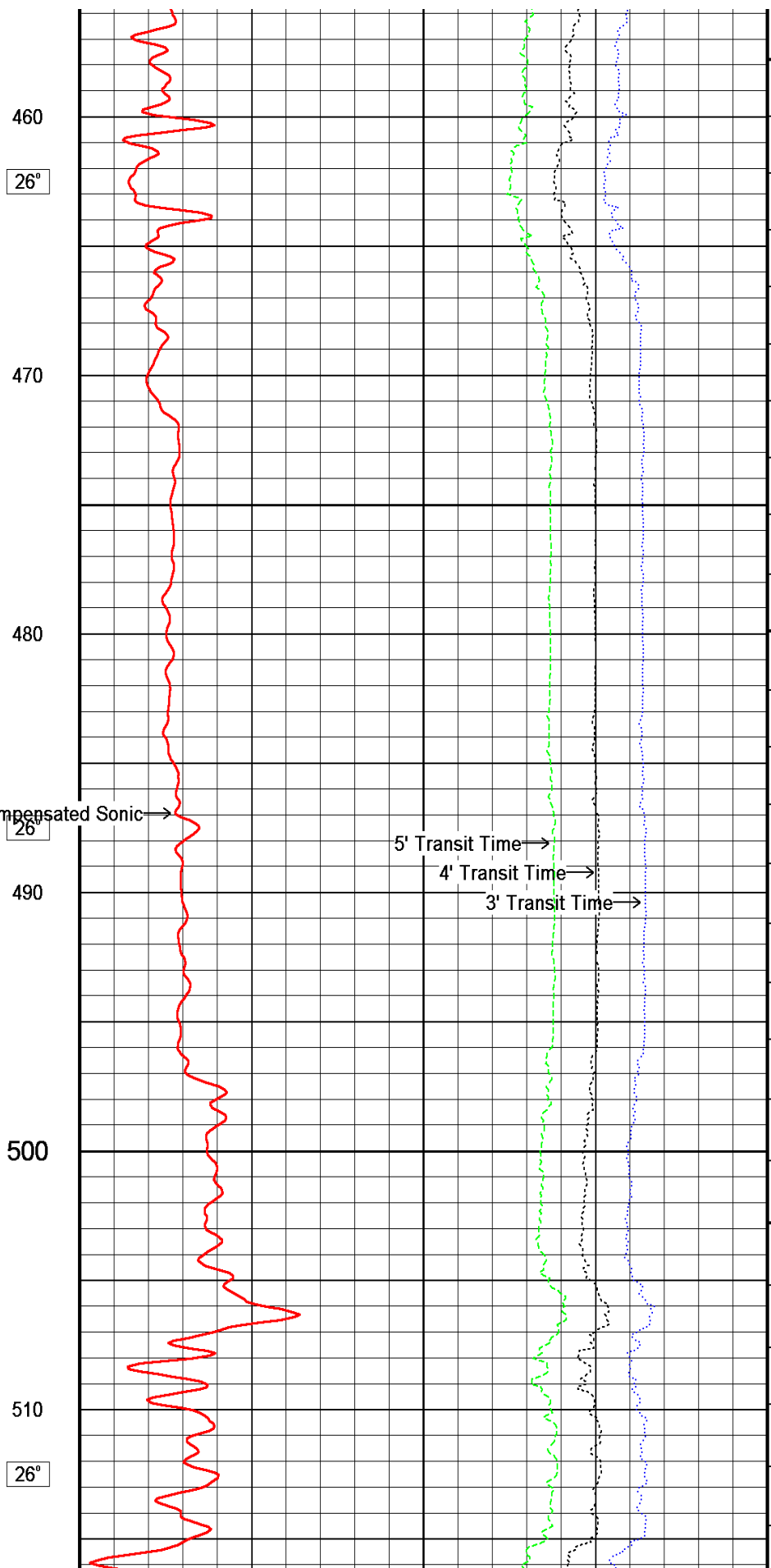
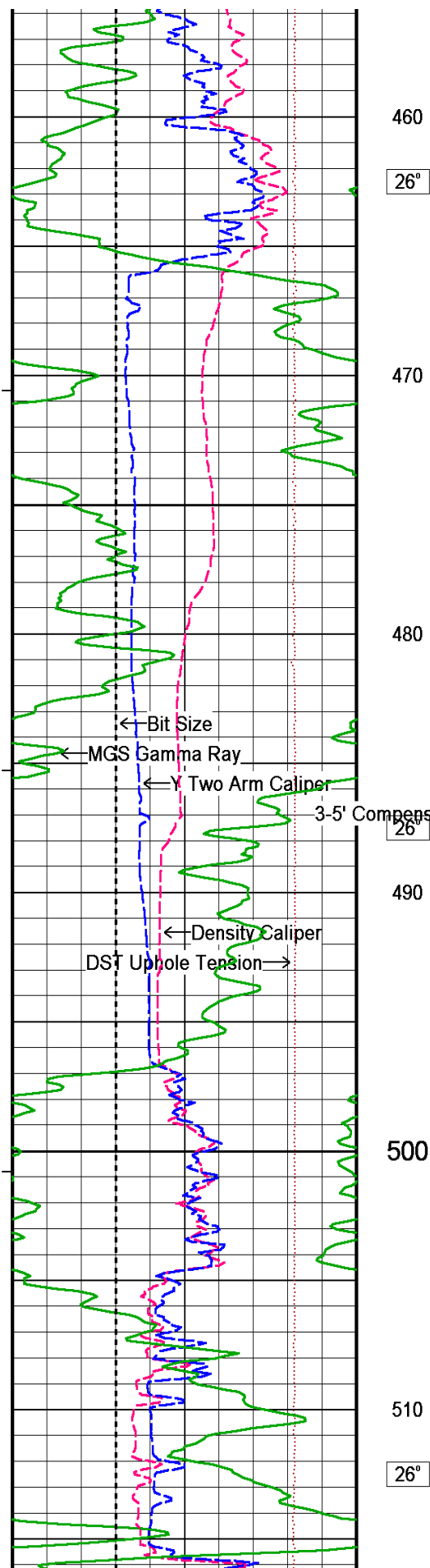
Casing
Shoe
430

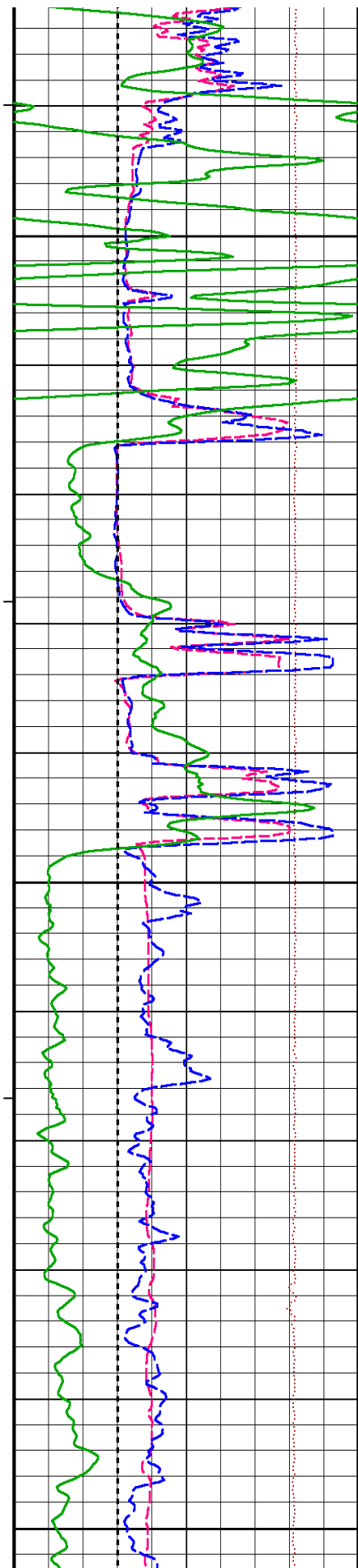
26°

440

450







520

530

25°

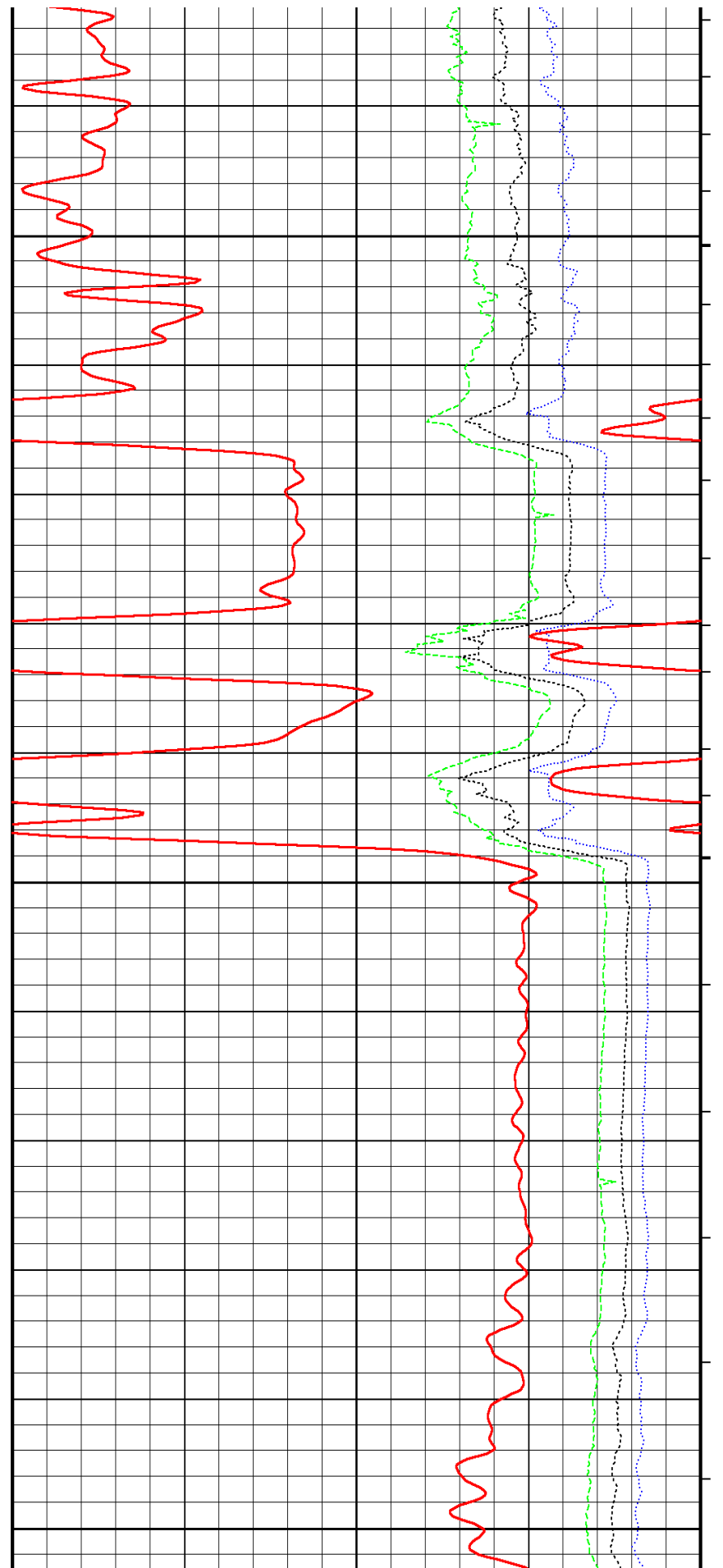
540

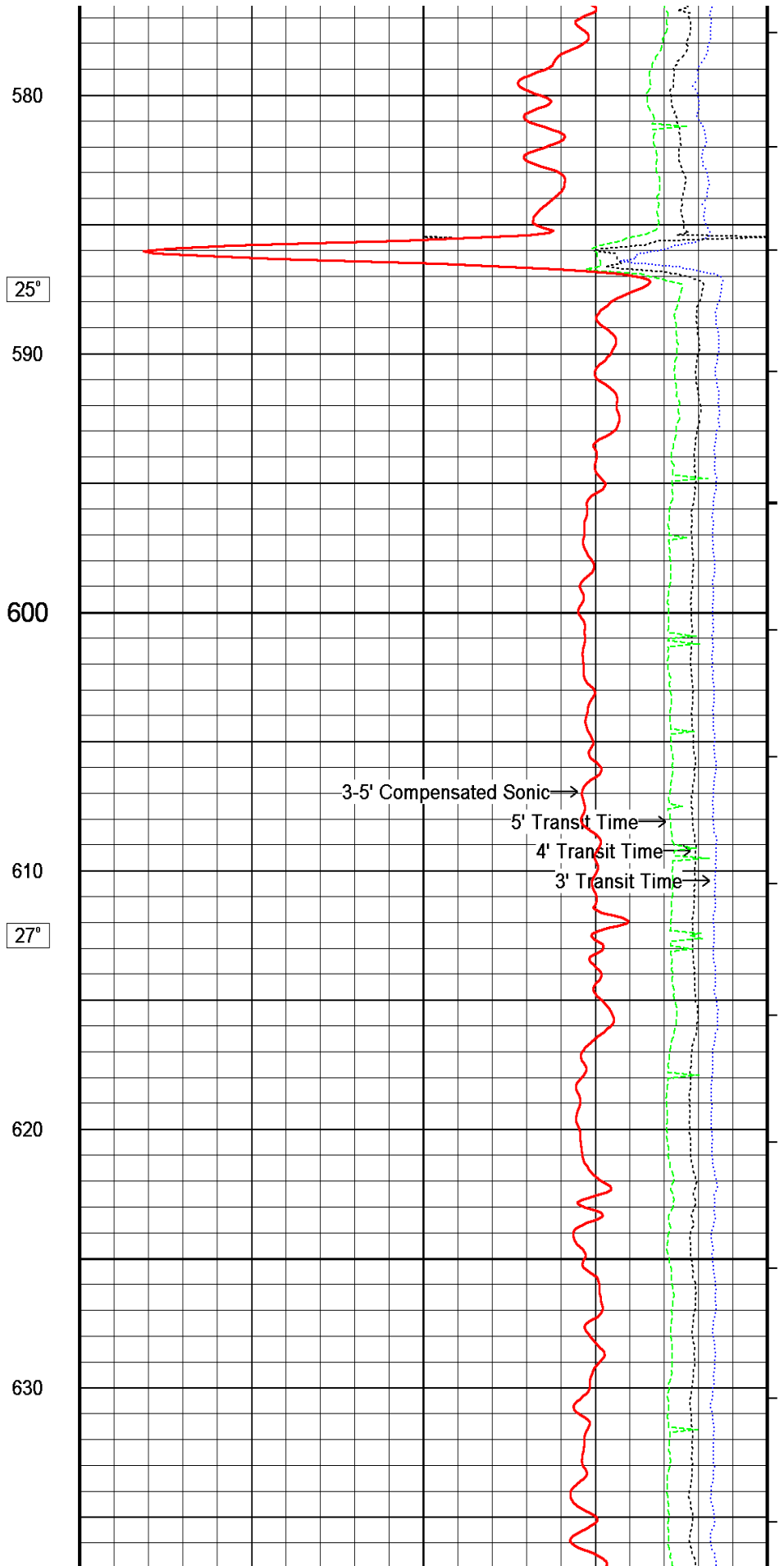
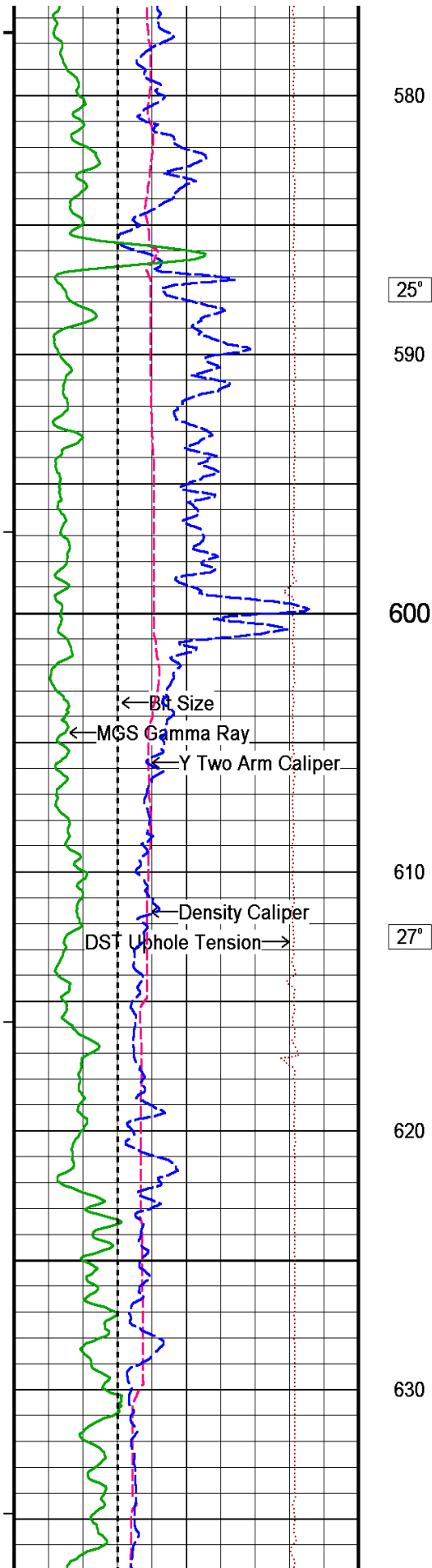
550

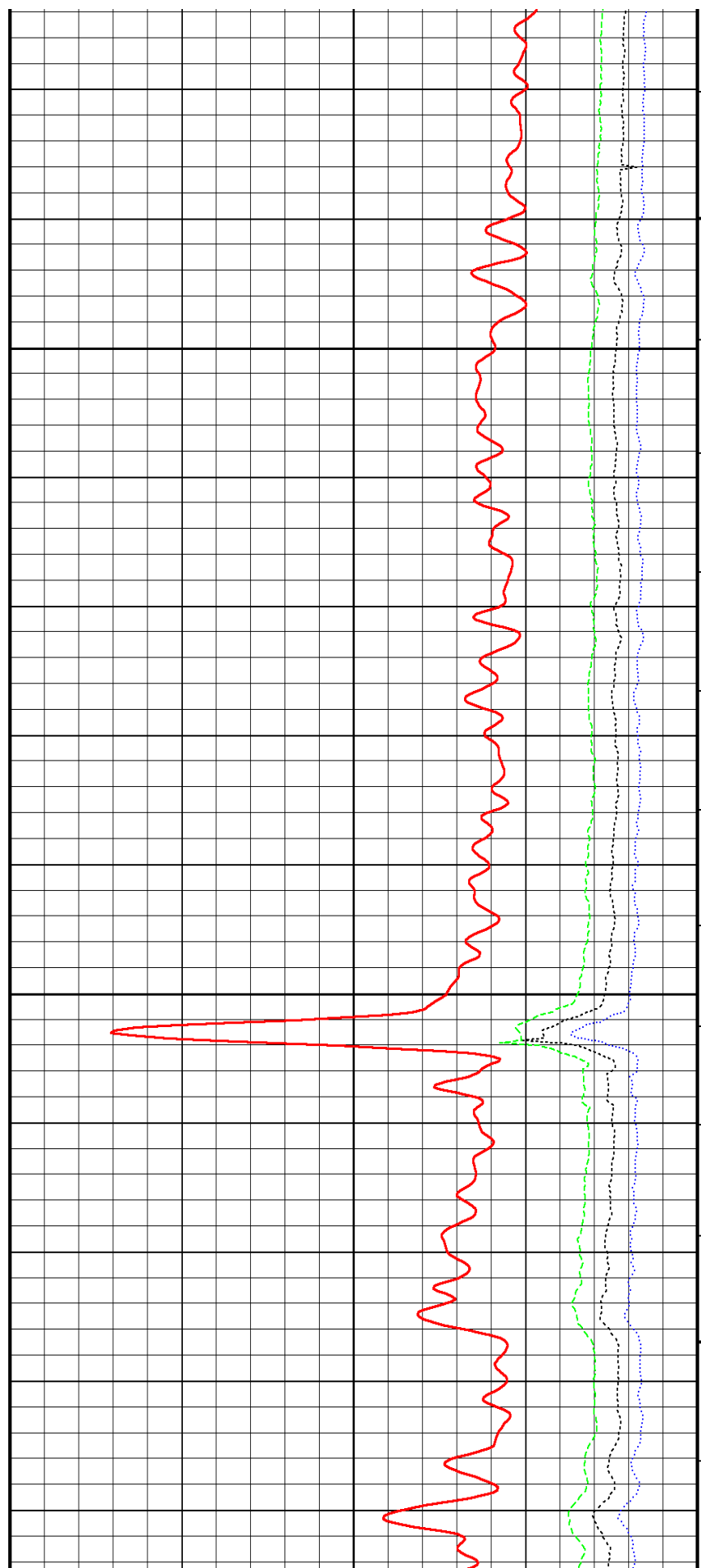
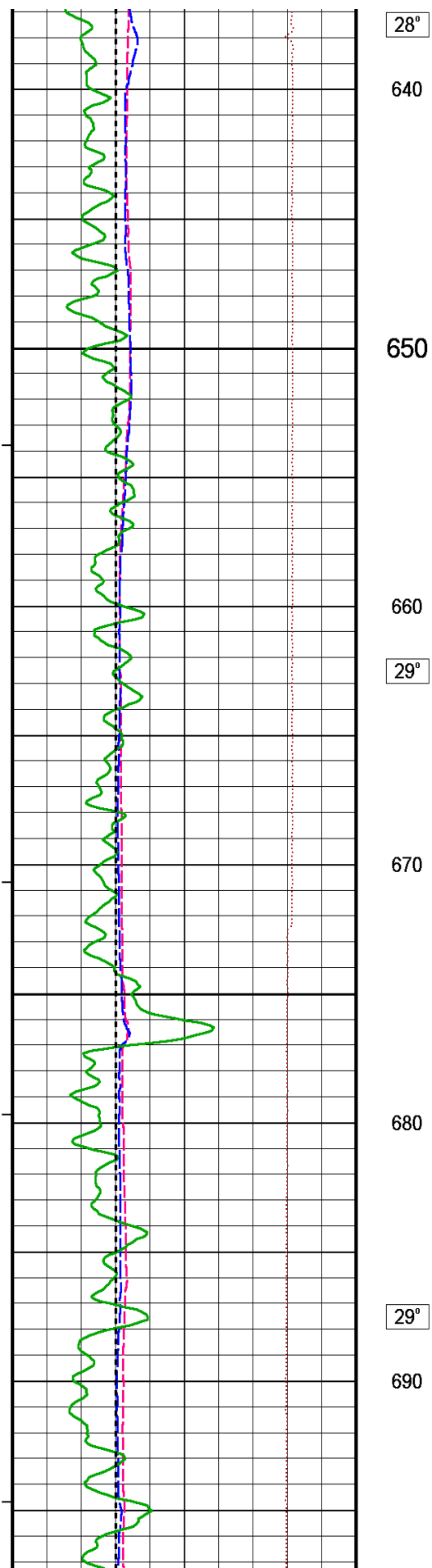
560

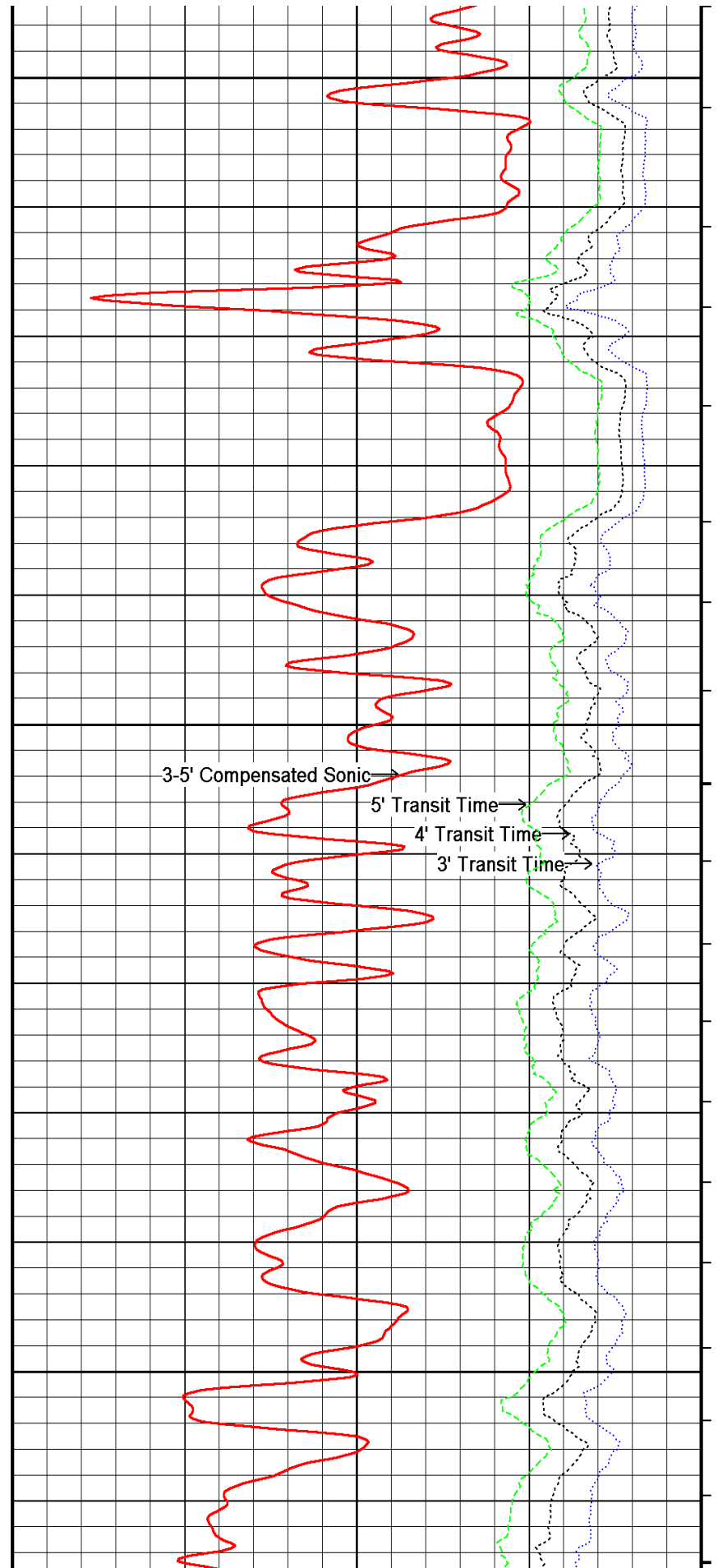
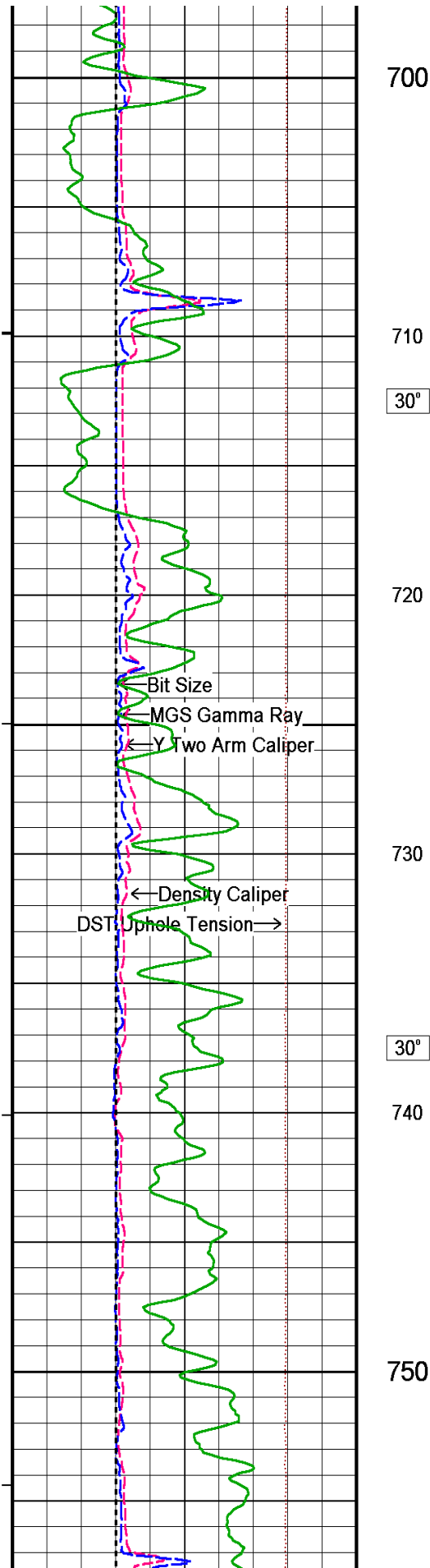
25°

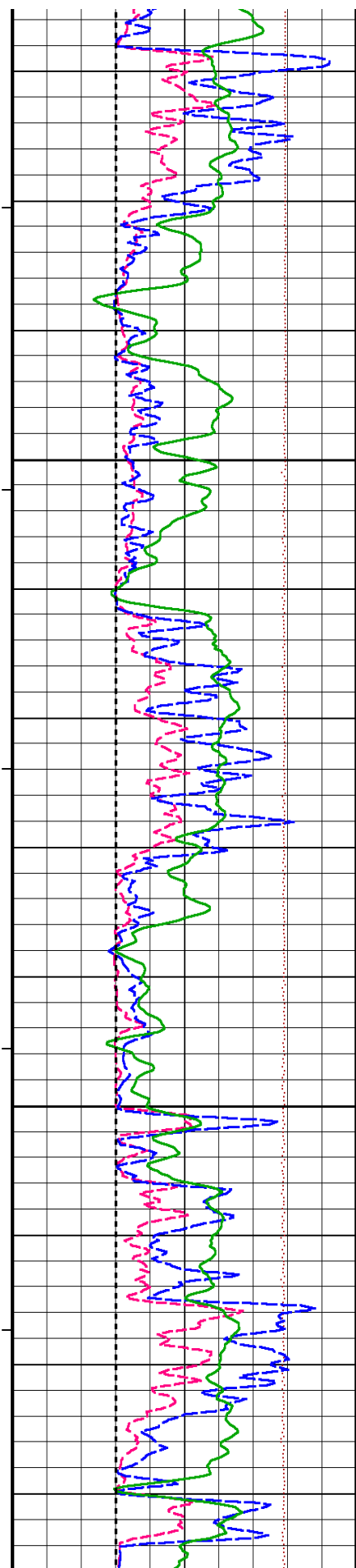
570











760

31°

770

780

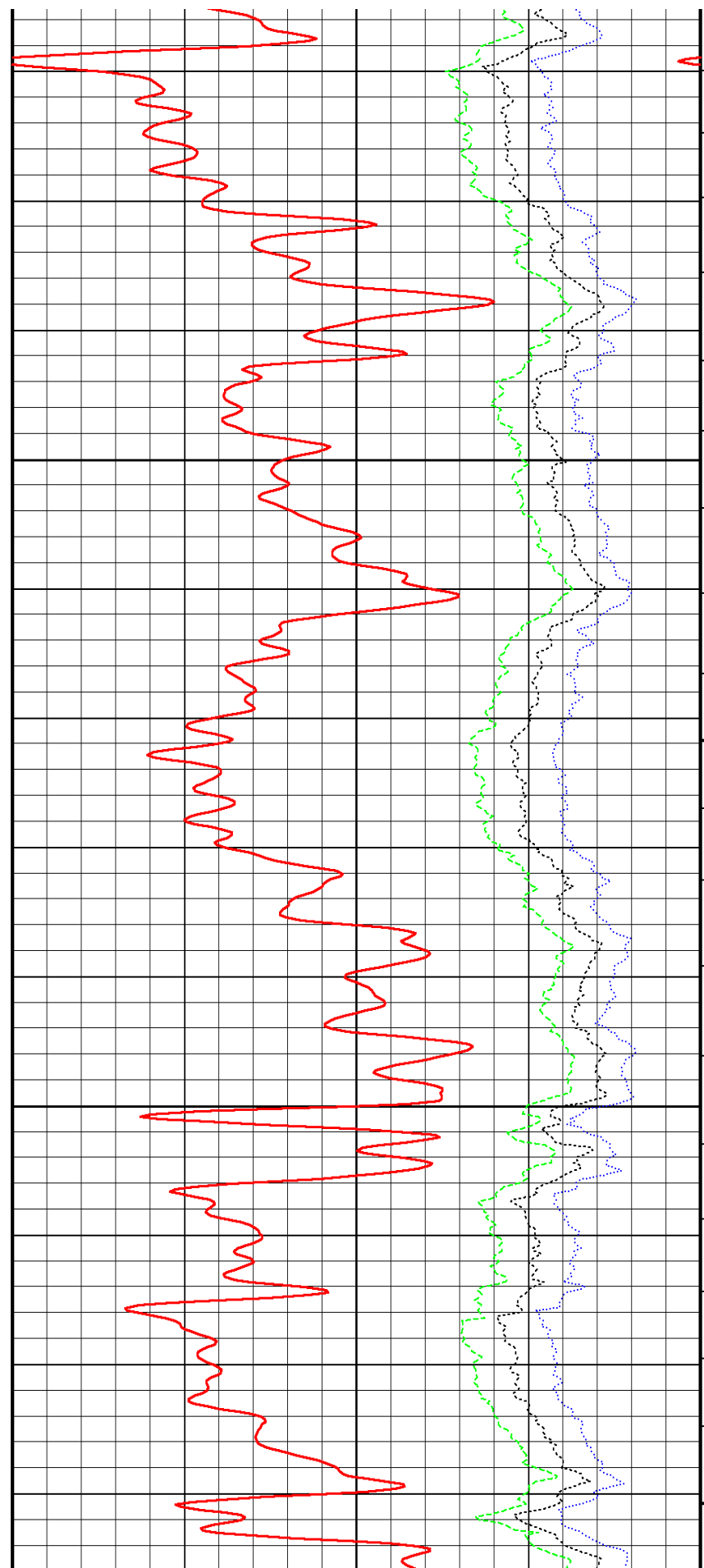
32°

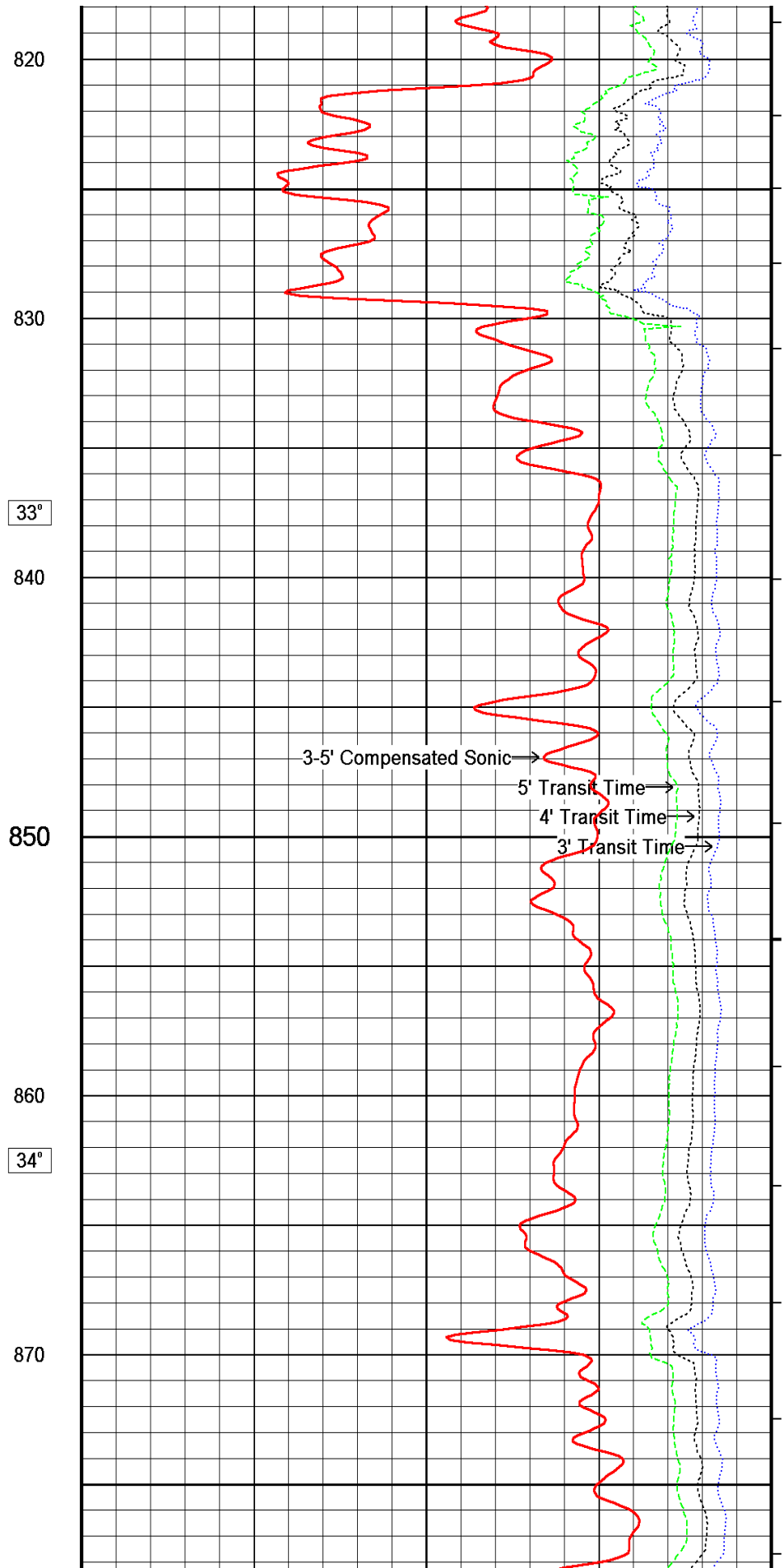
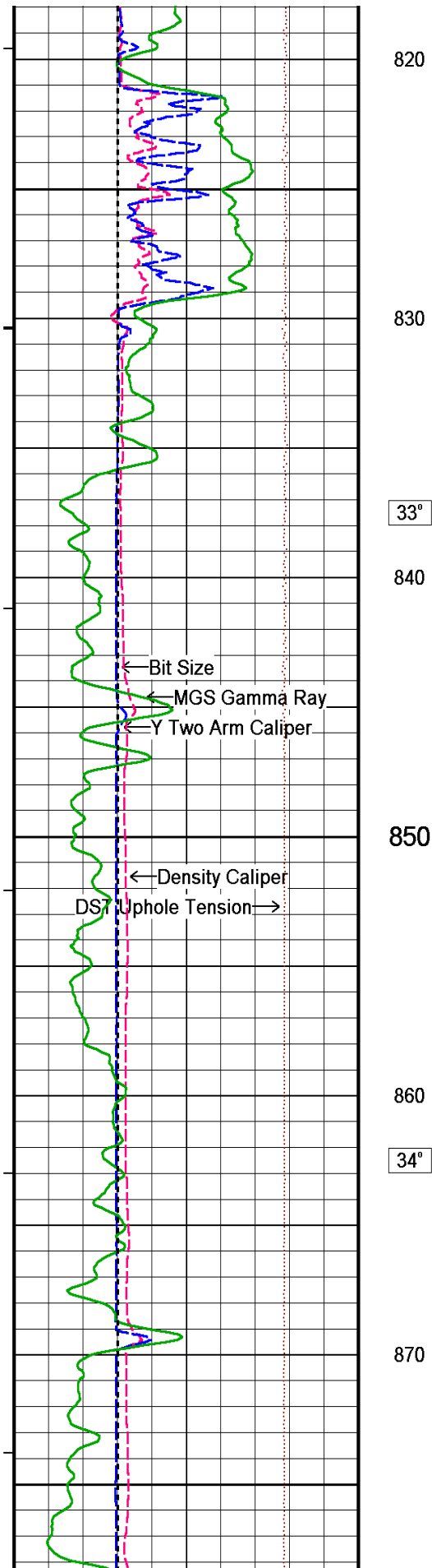
790

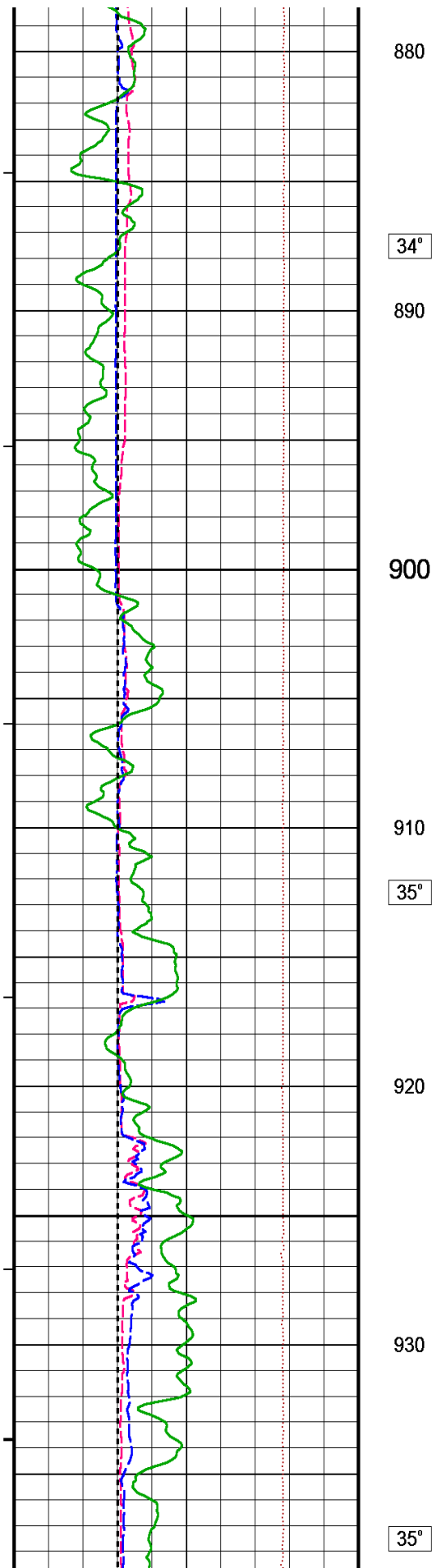
800

810

33°







880

34°

890

900

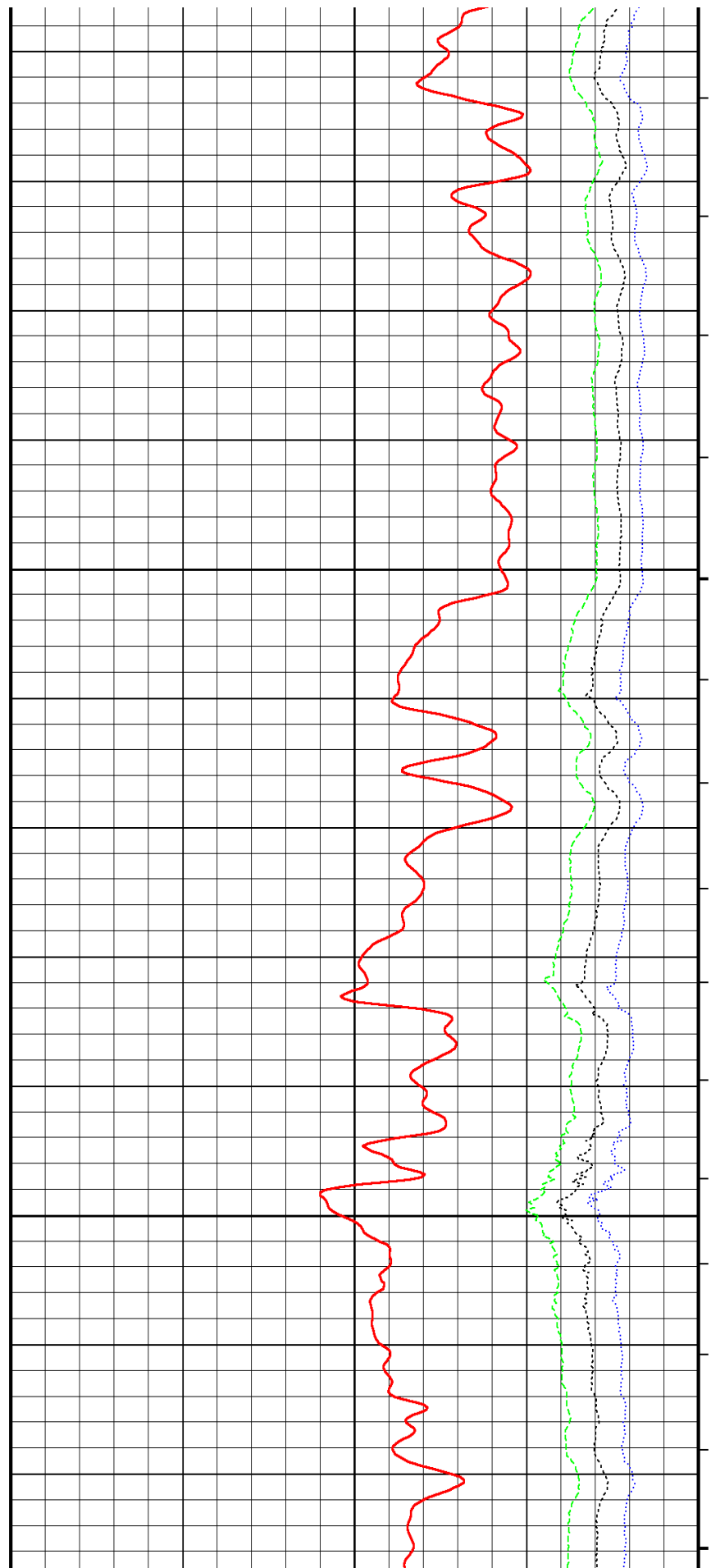
910

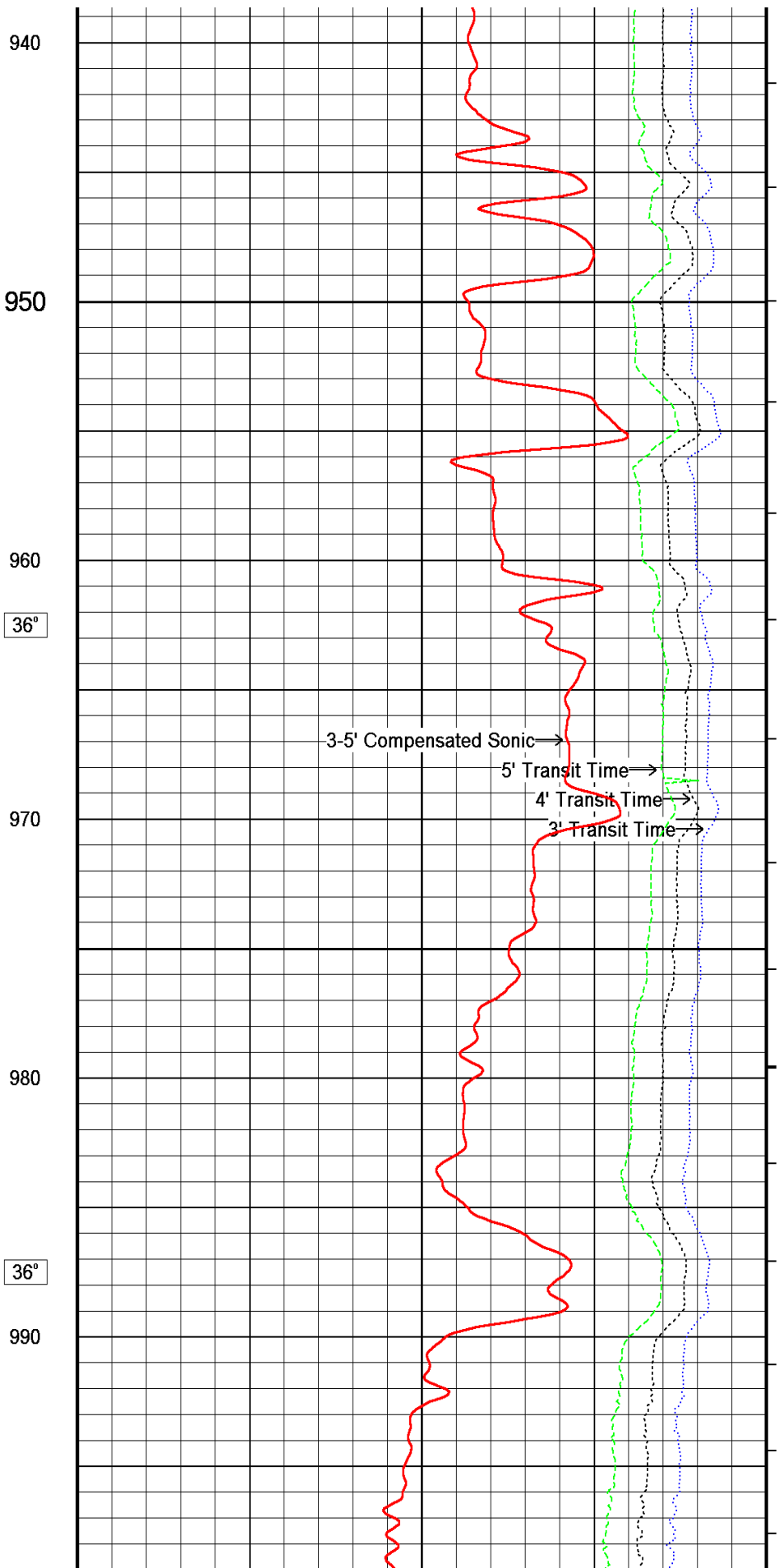
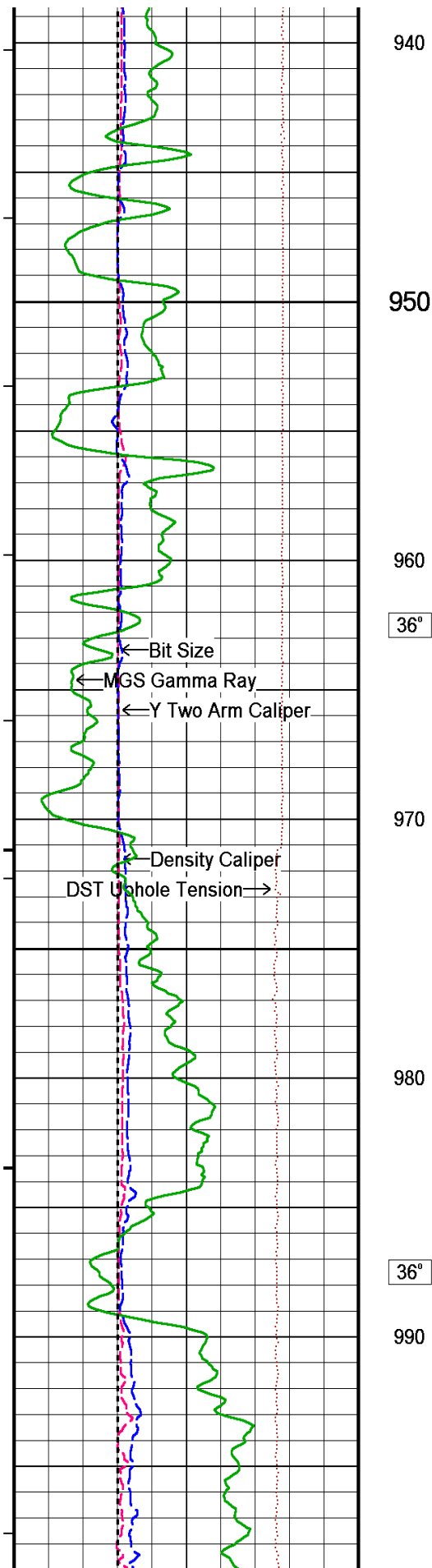
35°

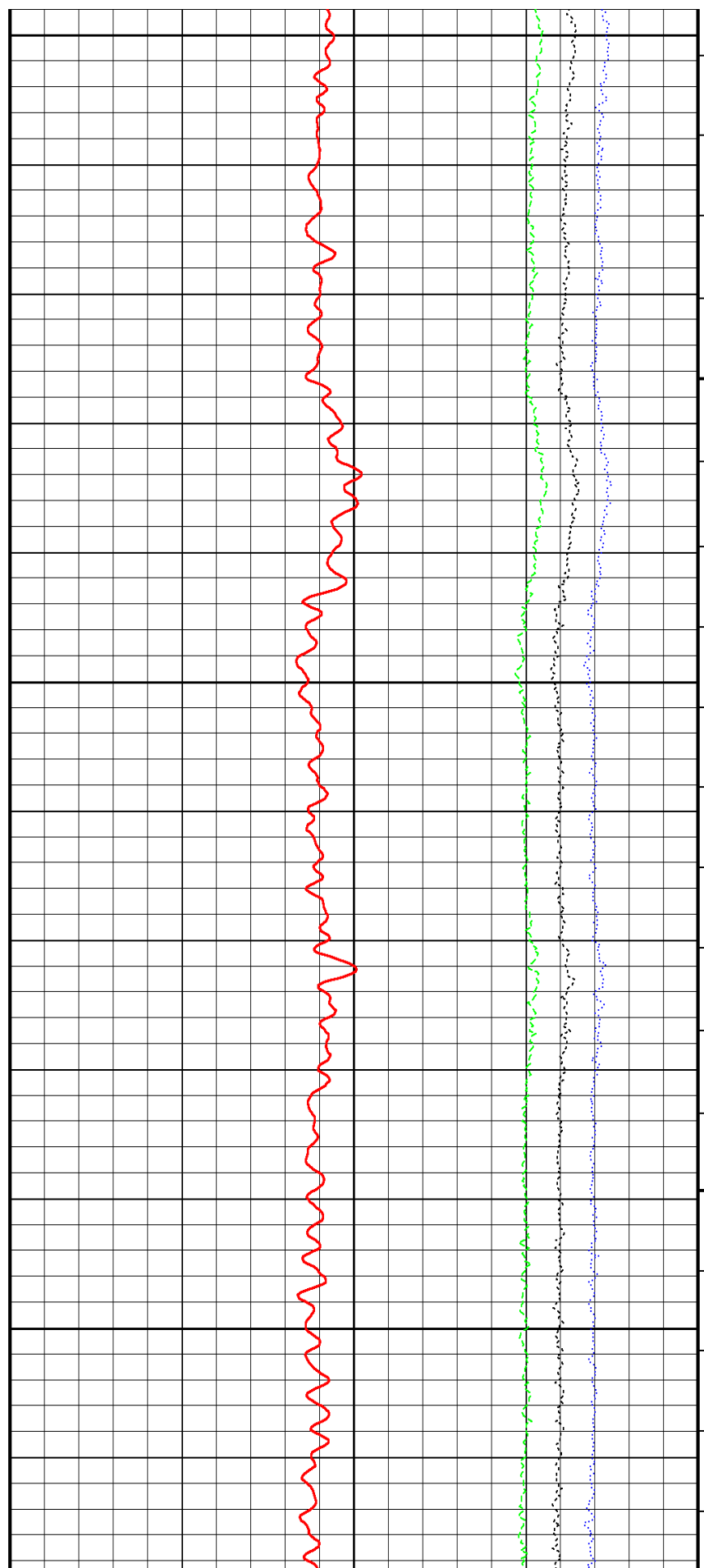
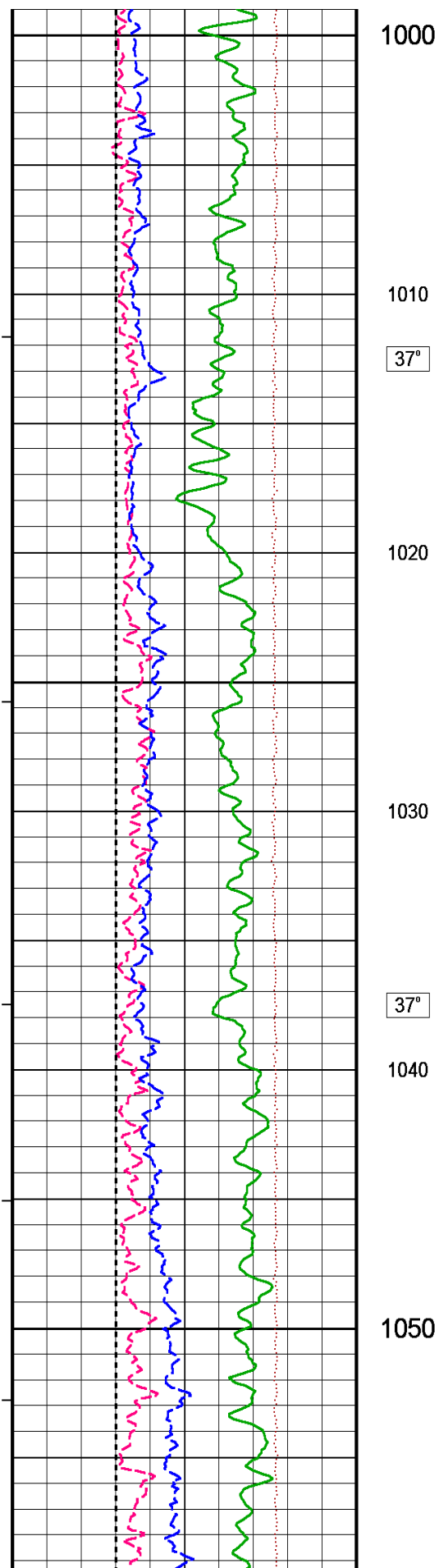
920

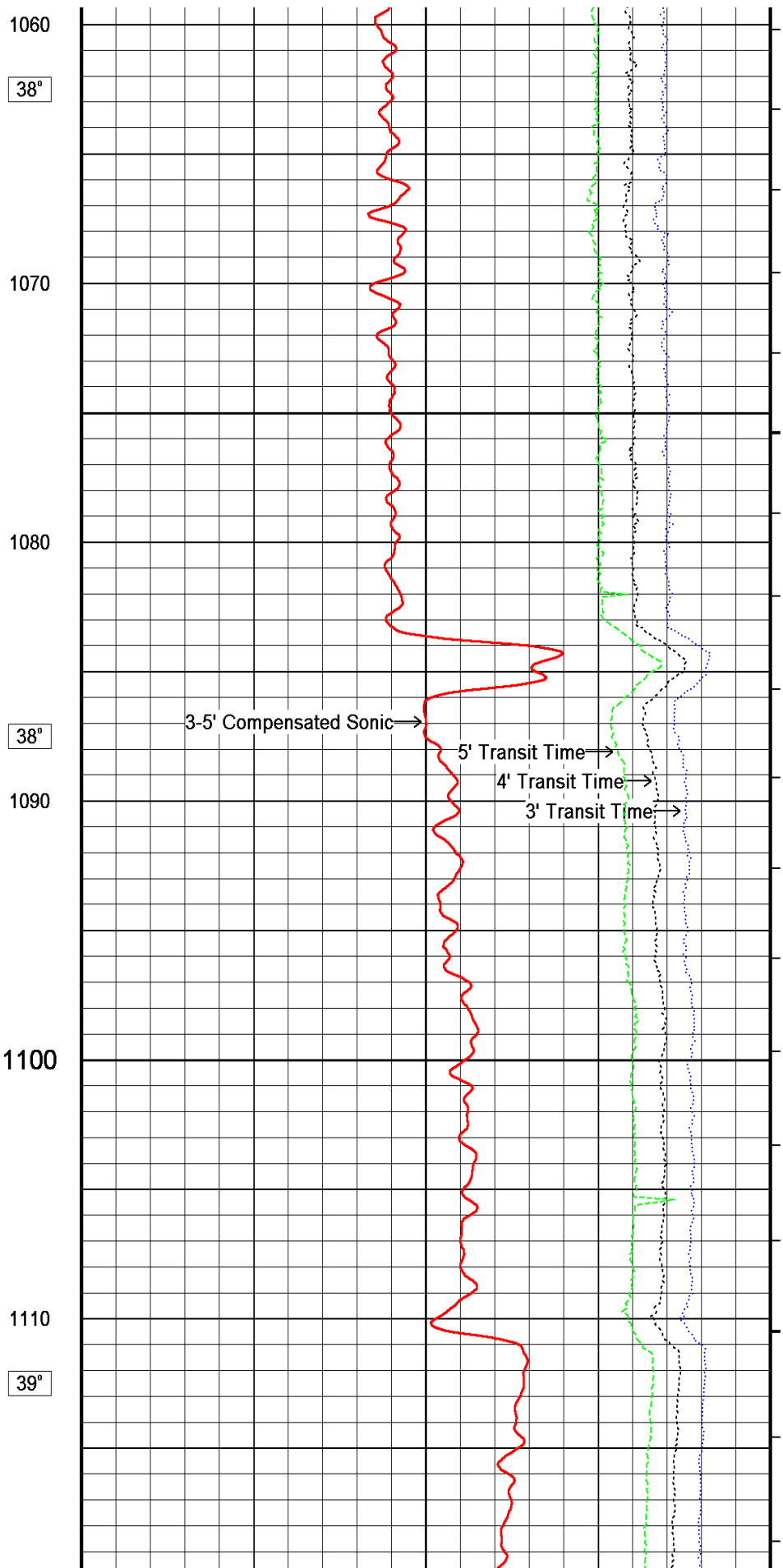
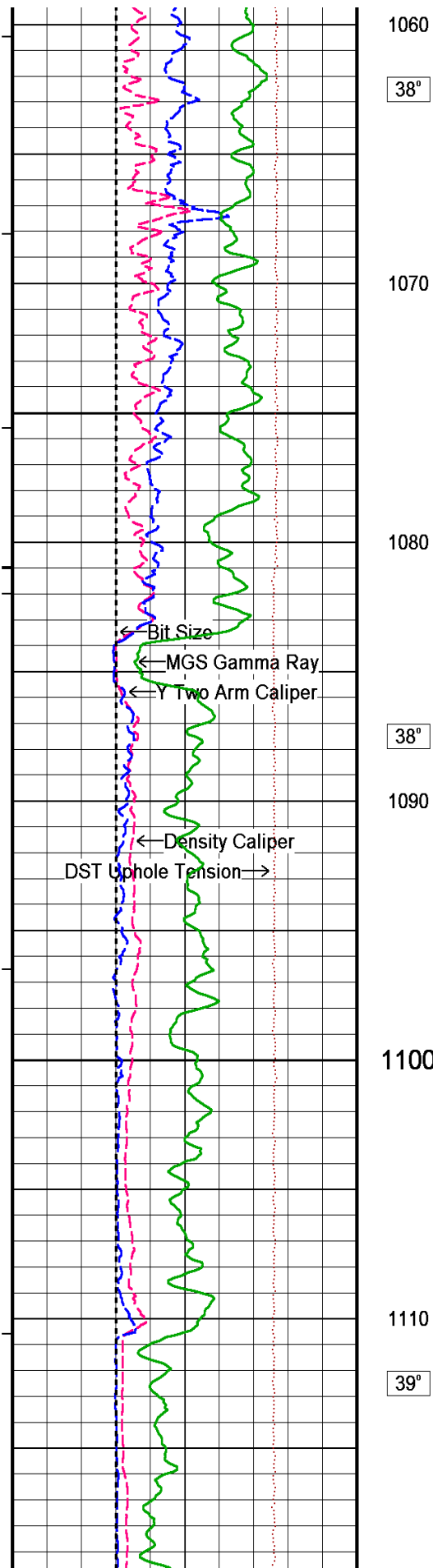
930

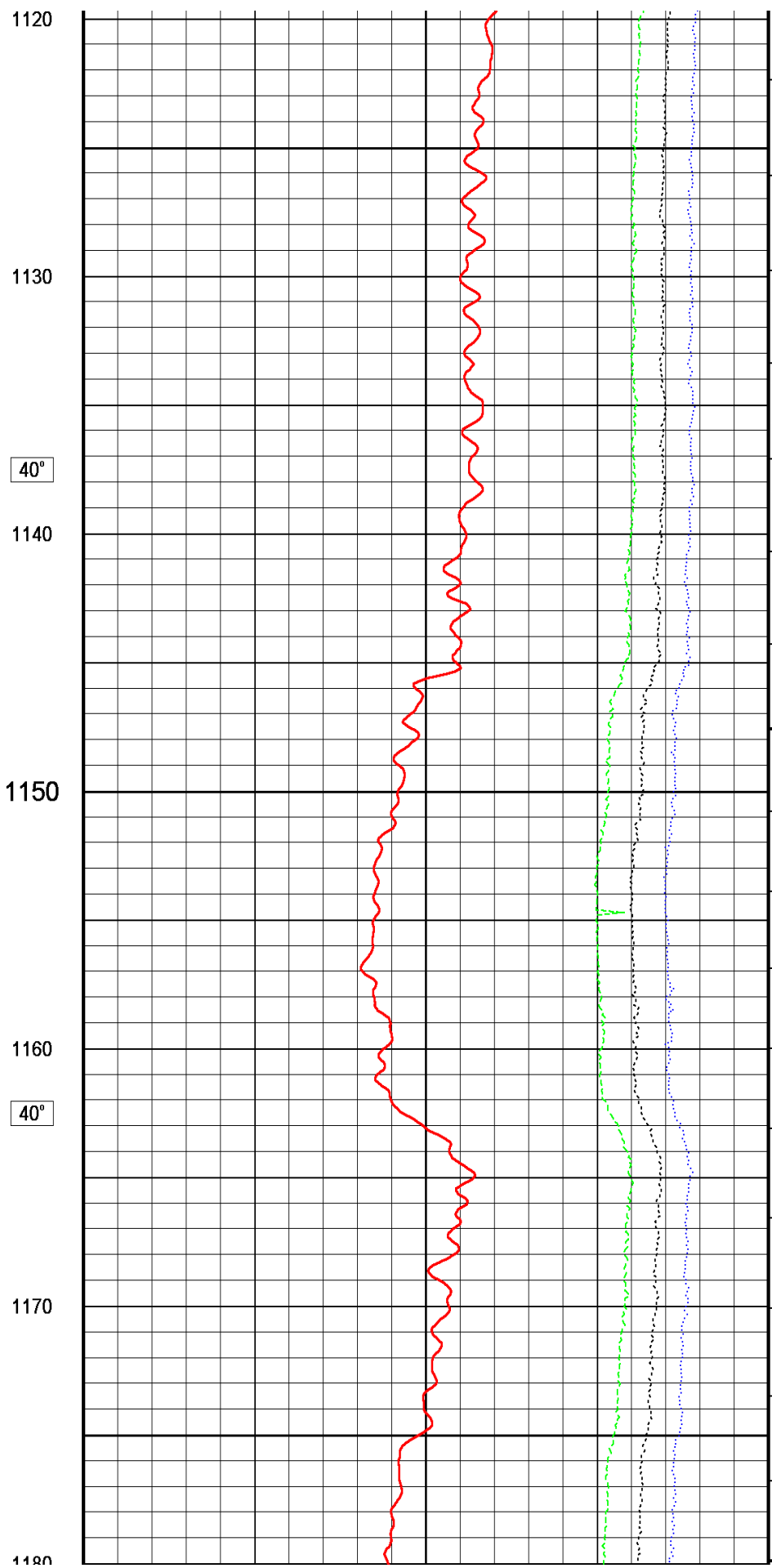
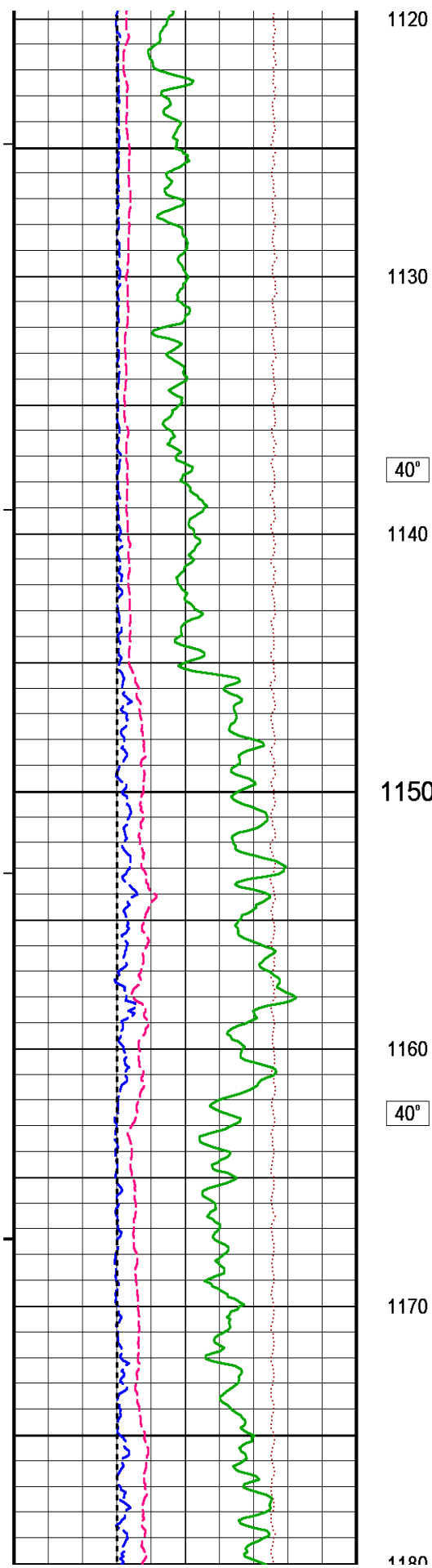
35°

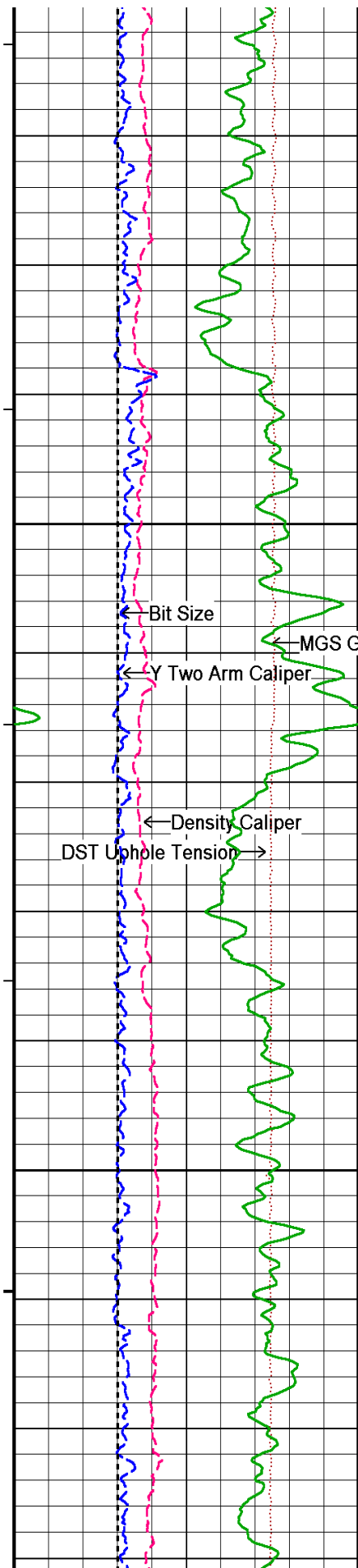




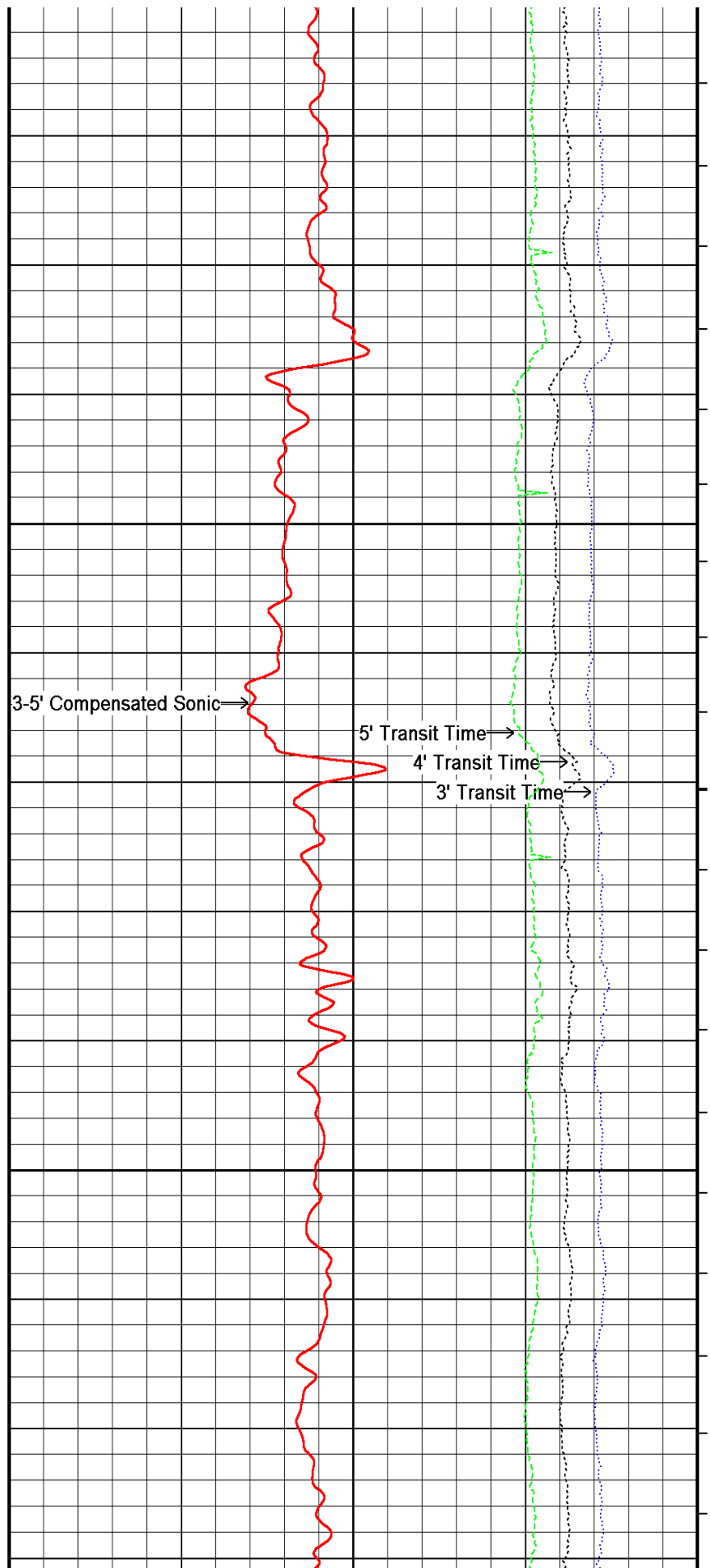


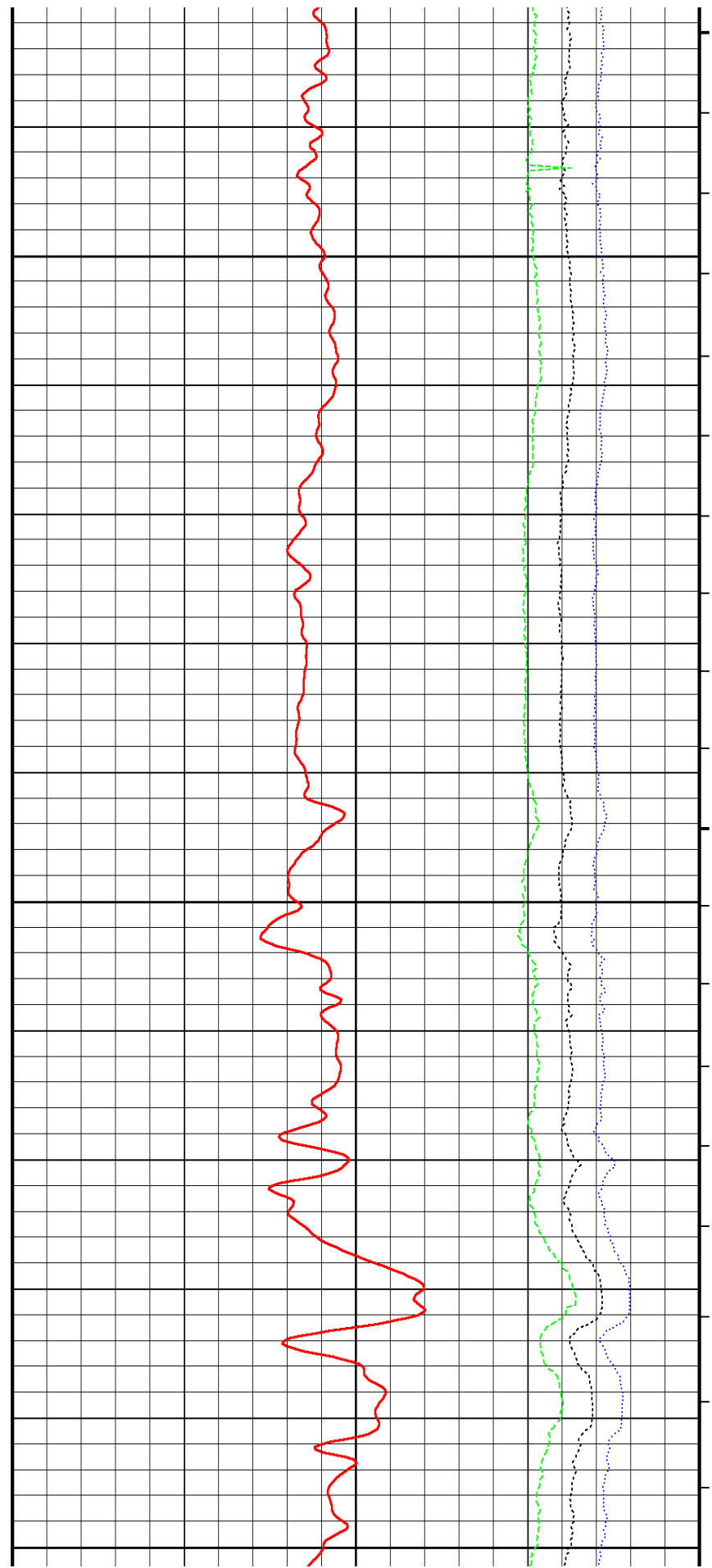
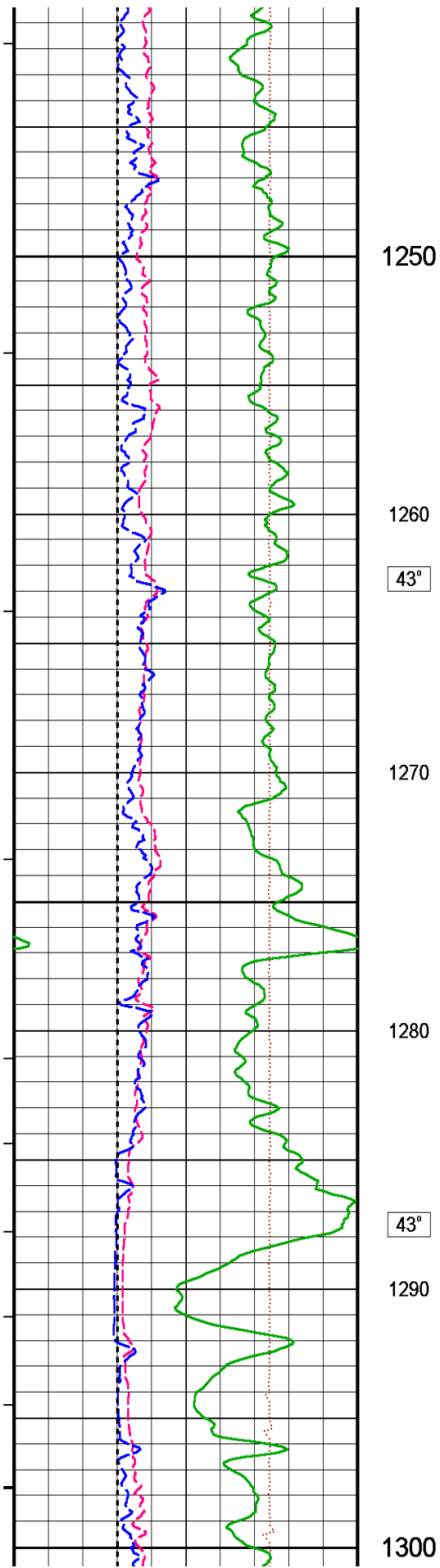


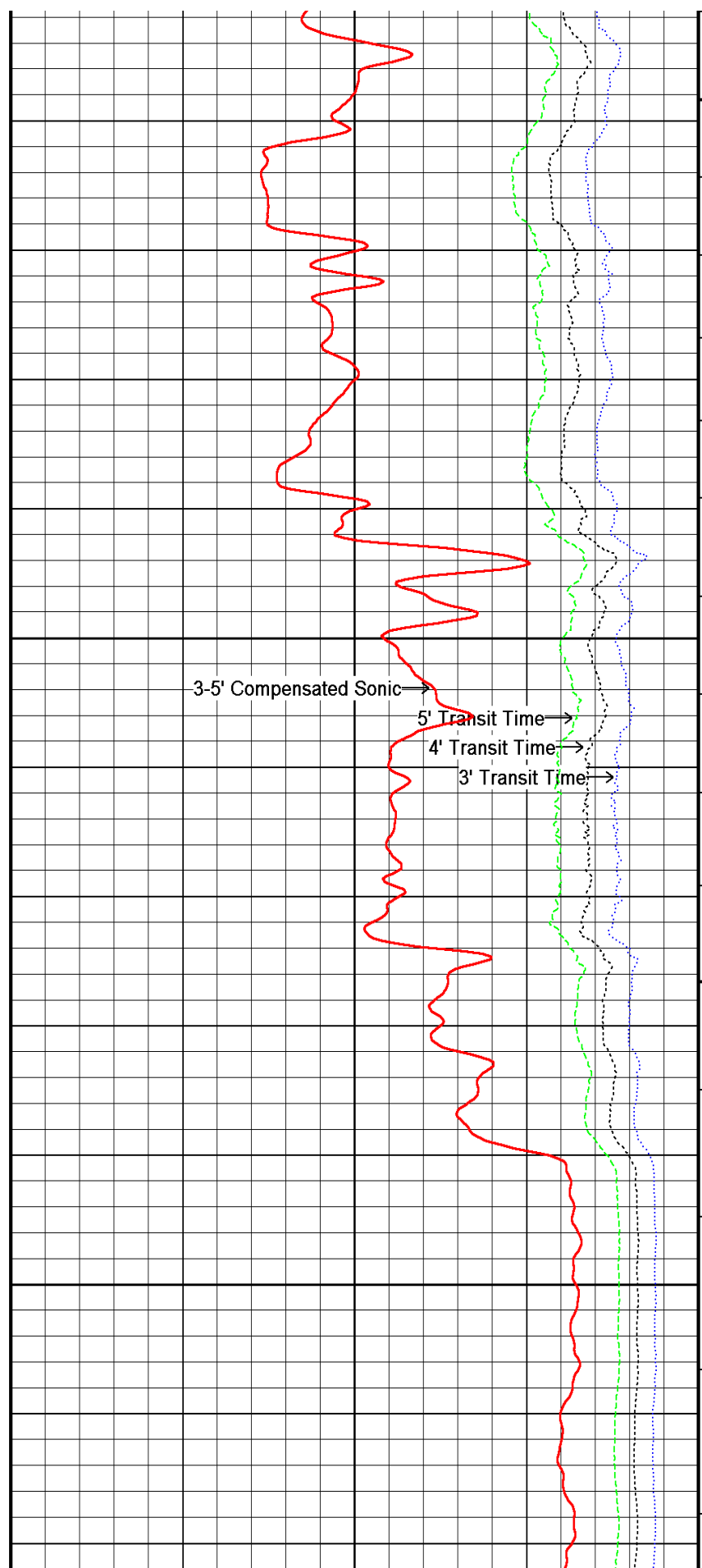
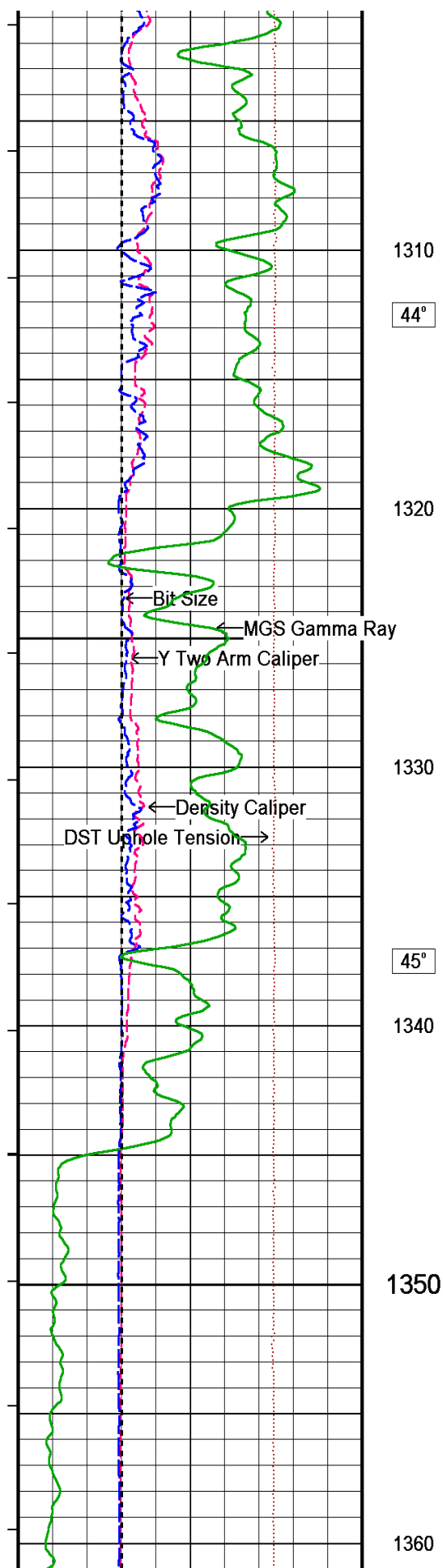


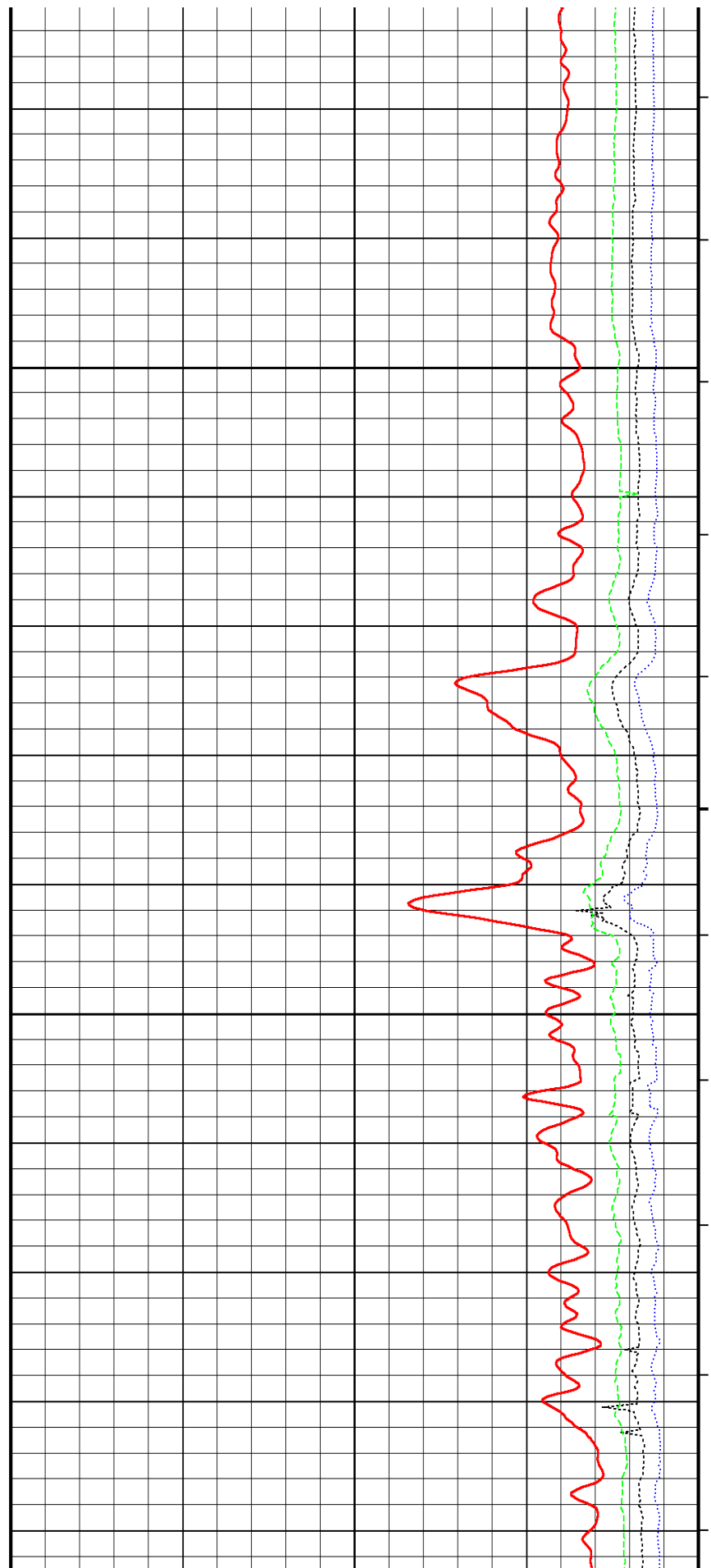
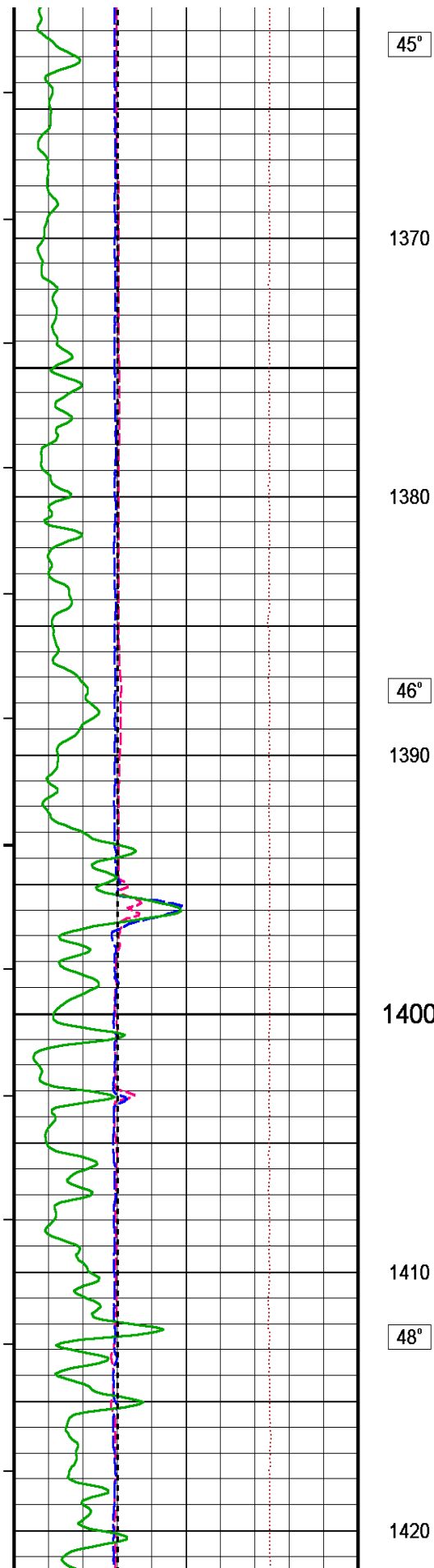


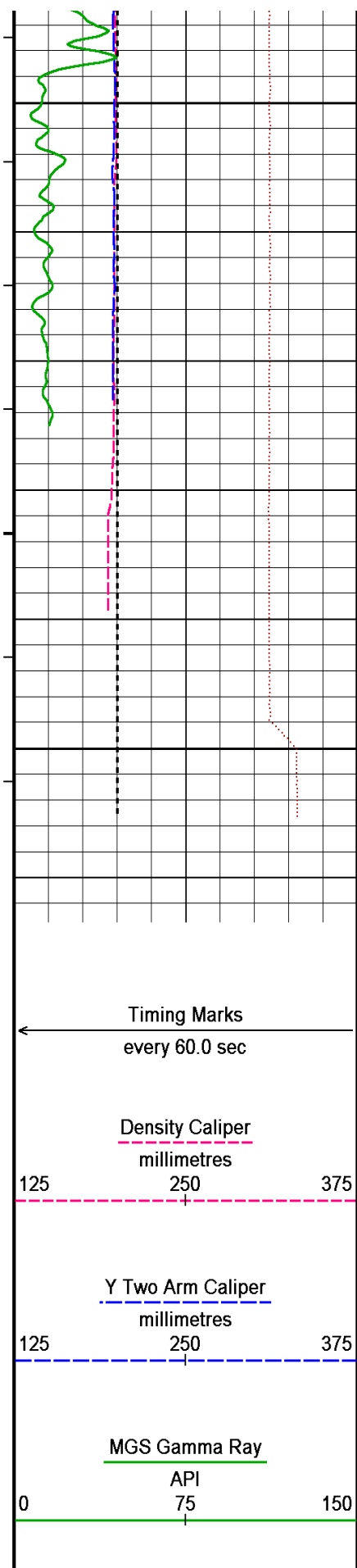
1180
41°
1190
1200
1210
41°
1220
1230
42°
1240











1430

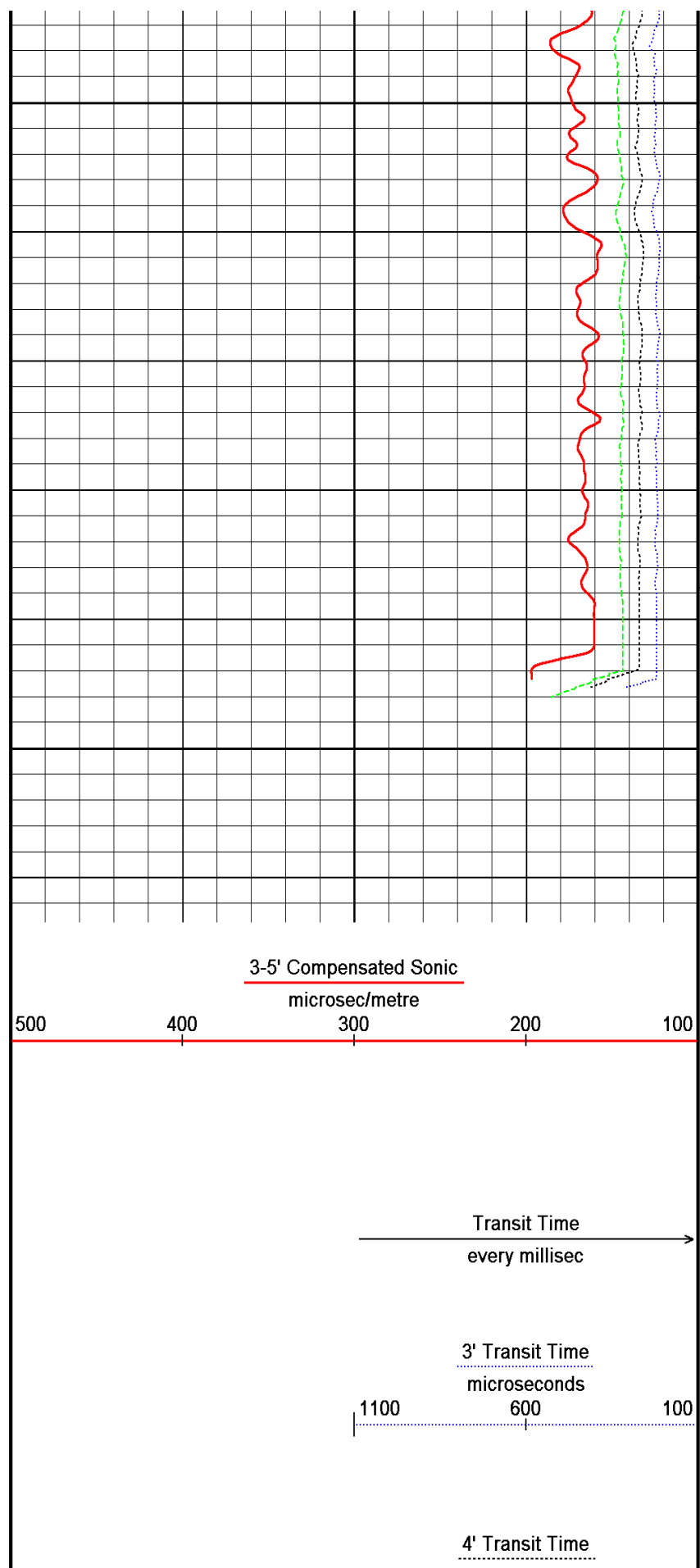
1440

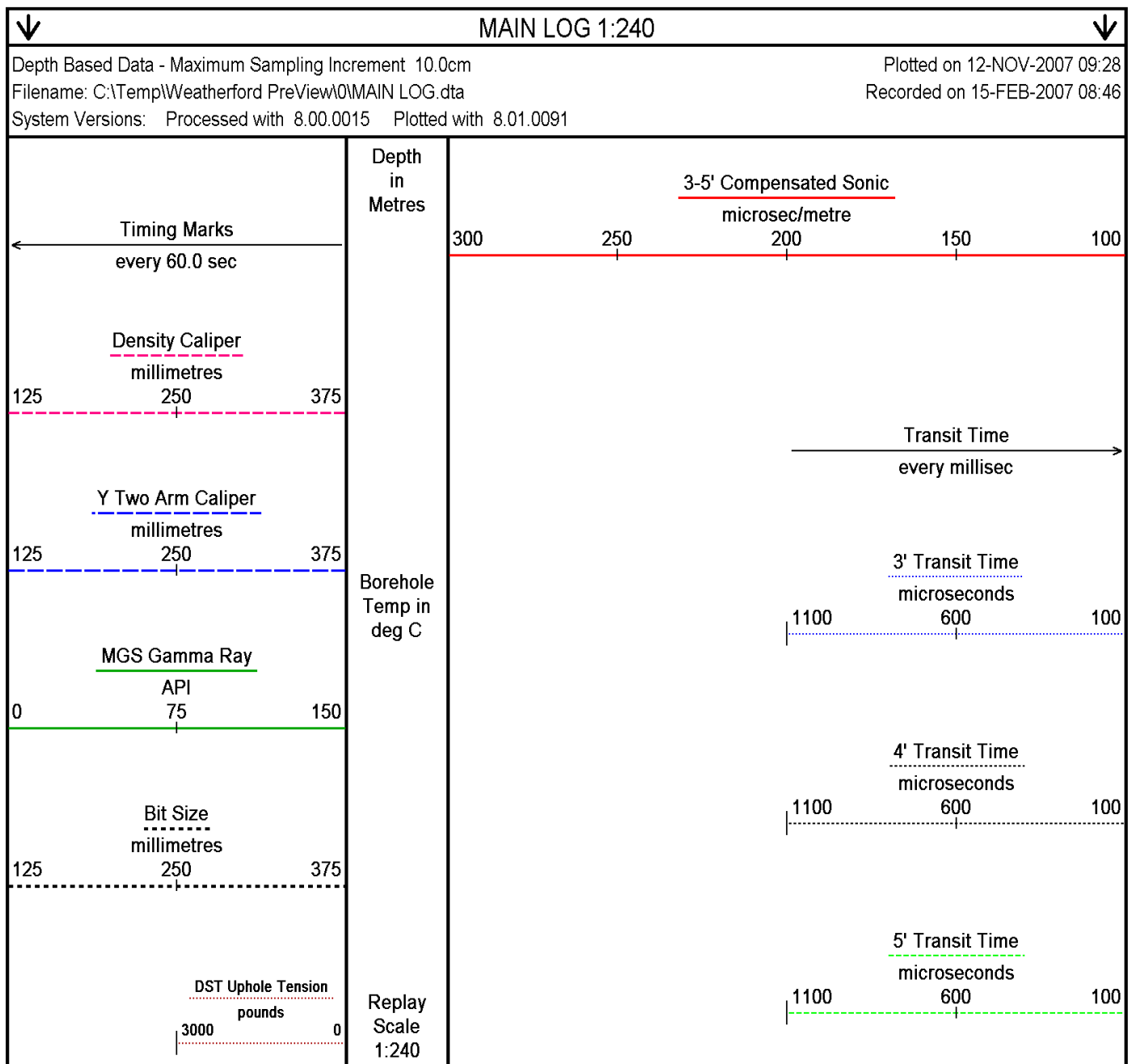
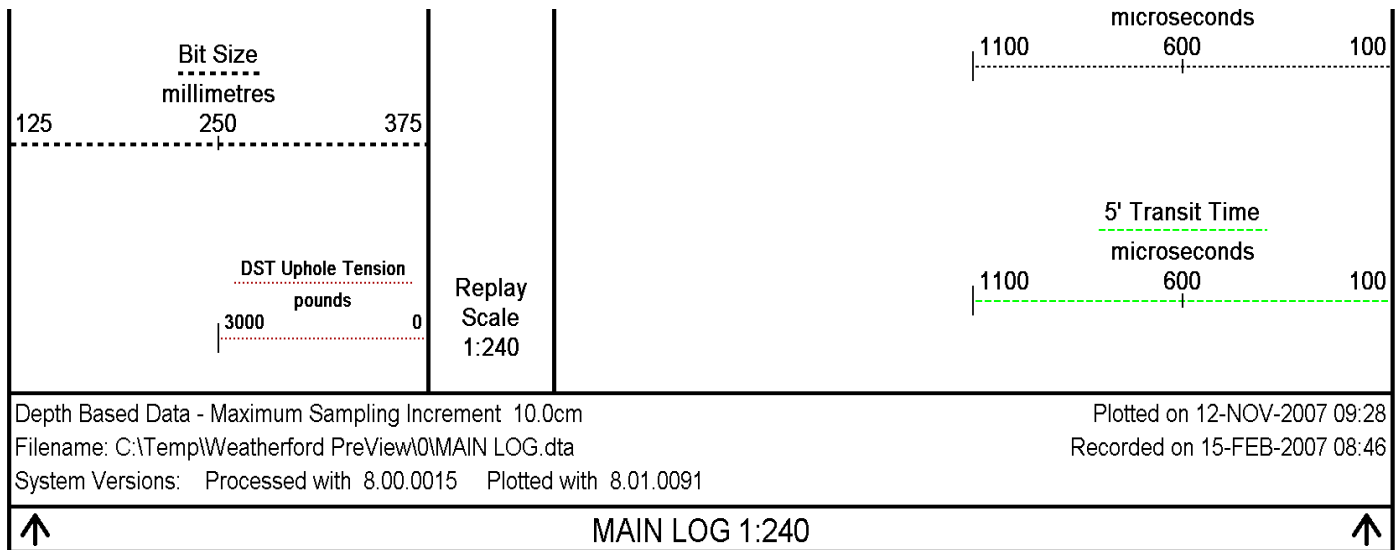
1450

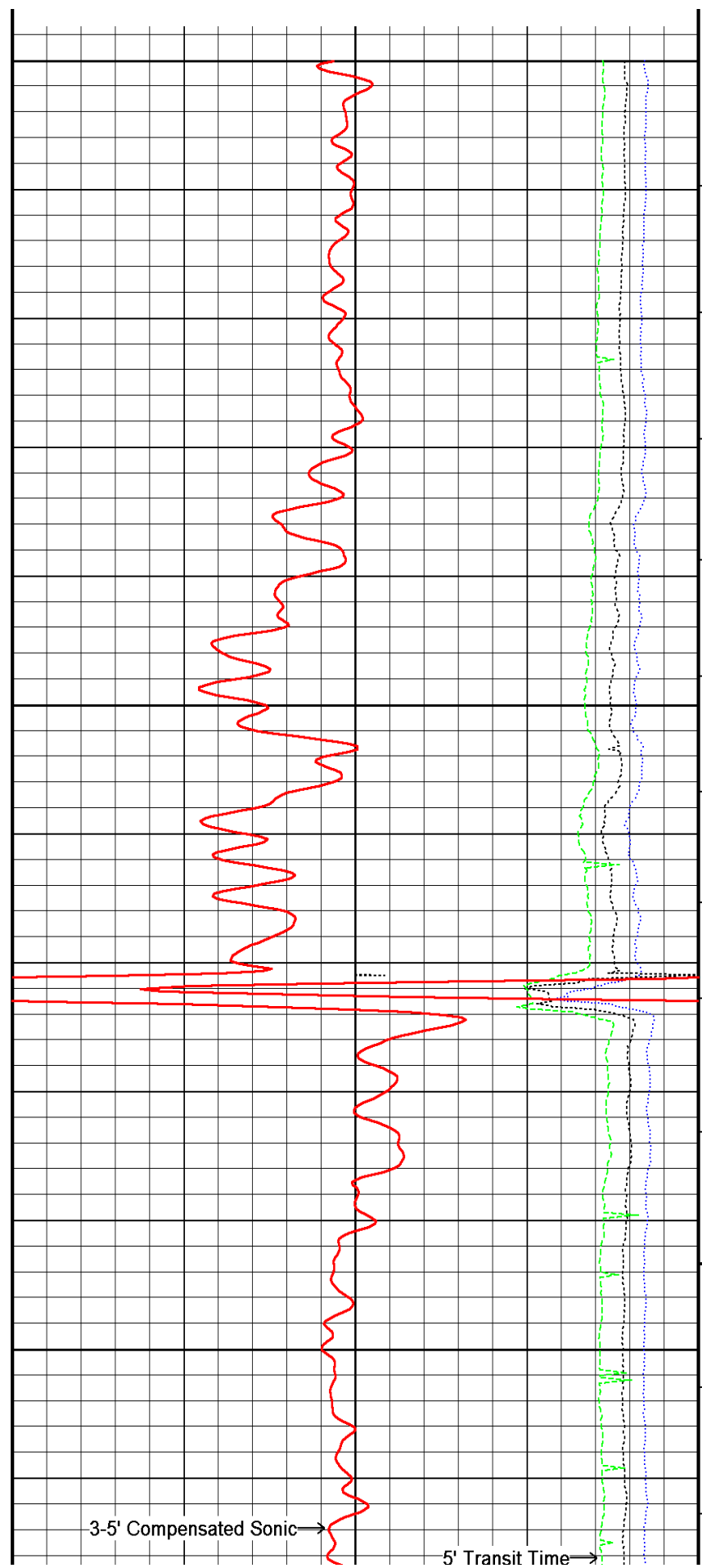
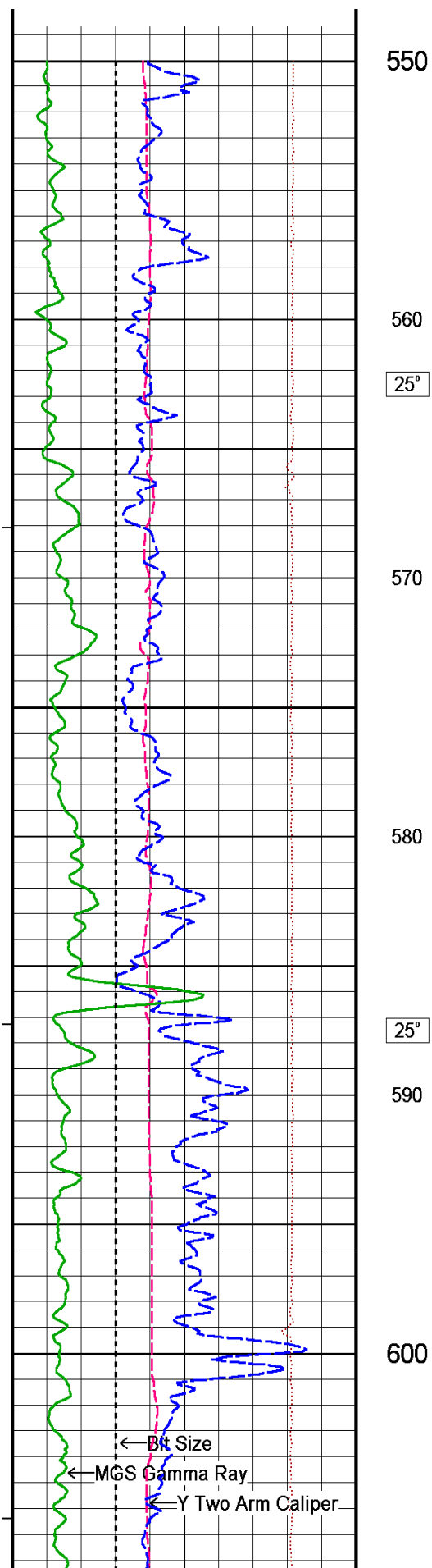
1456

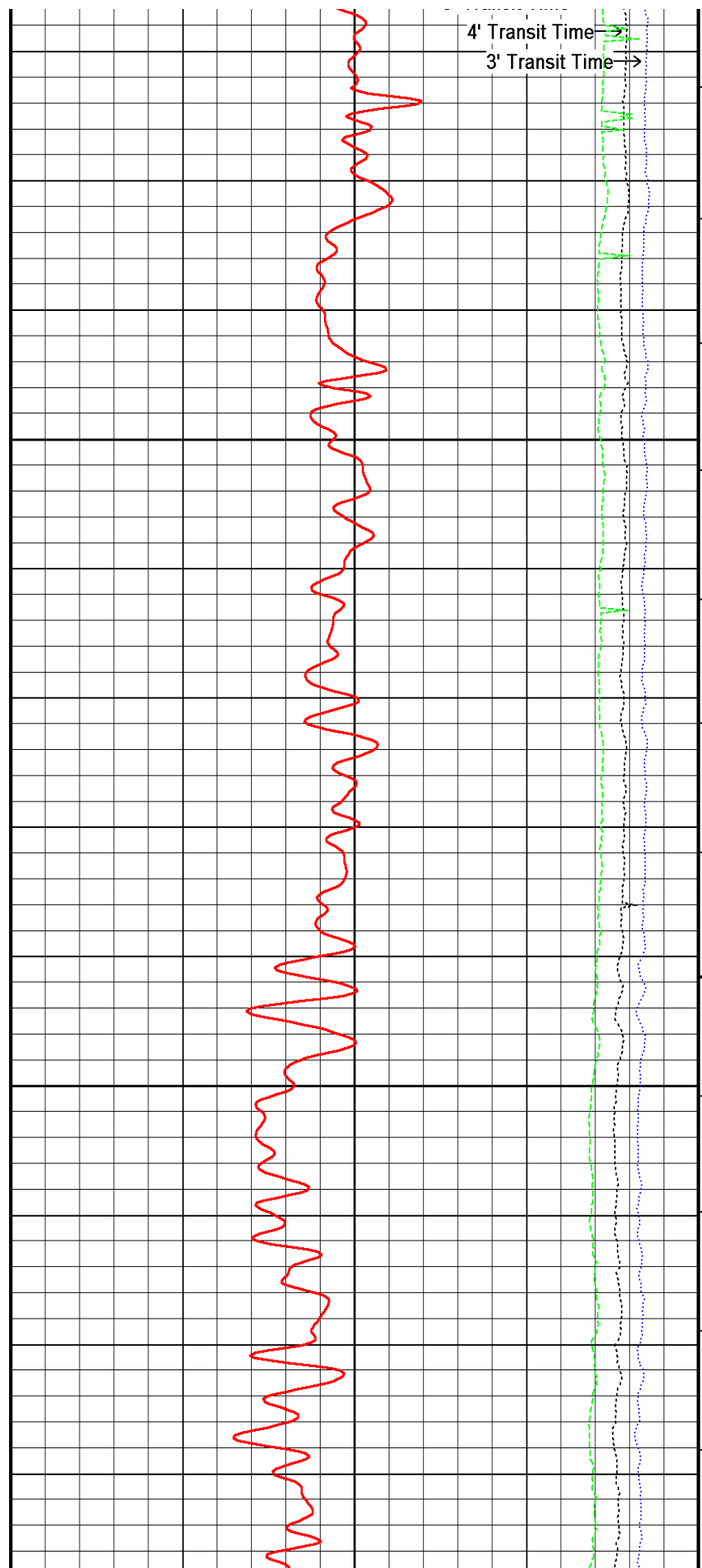
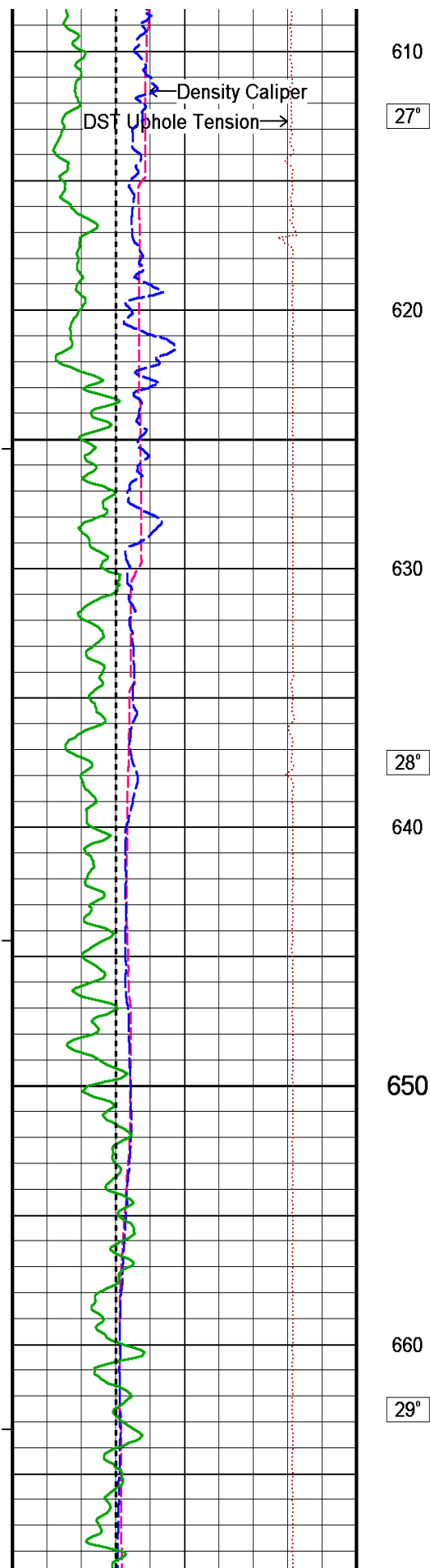
Depth in Metres

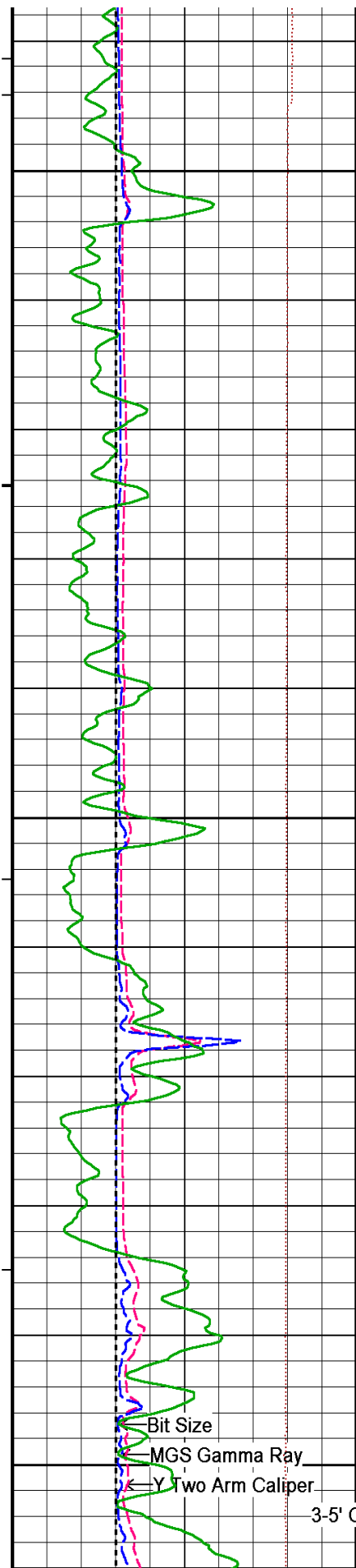
Borehole Temp in deg C











670

680

29°

690

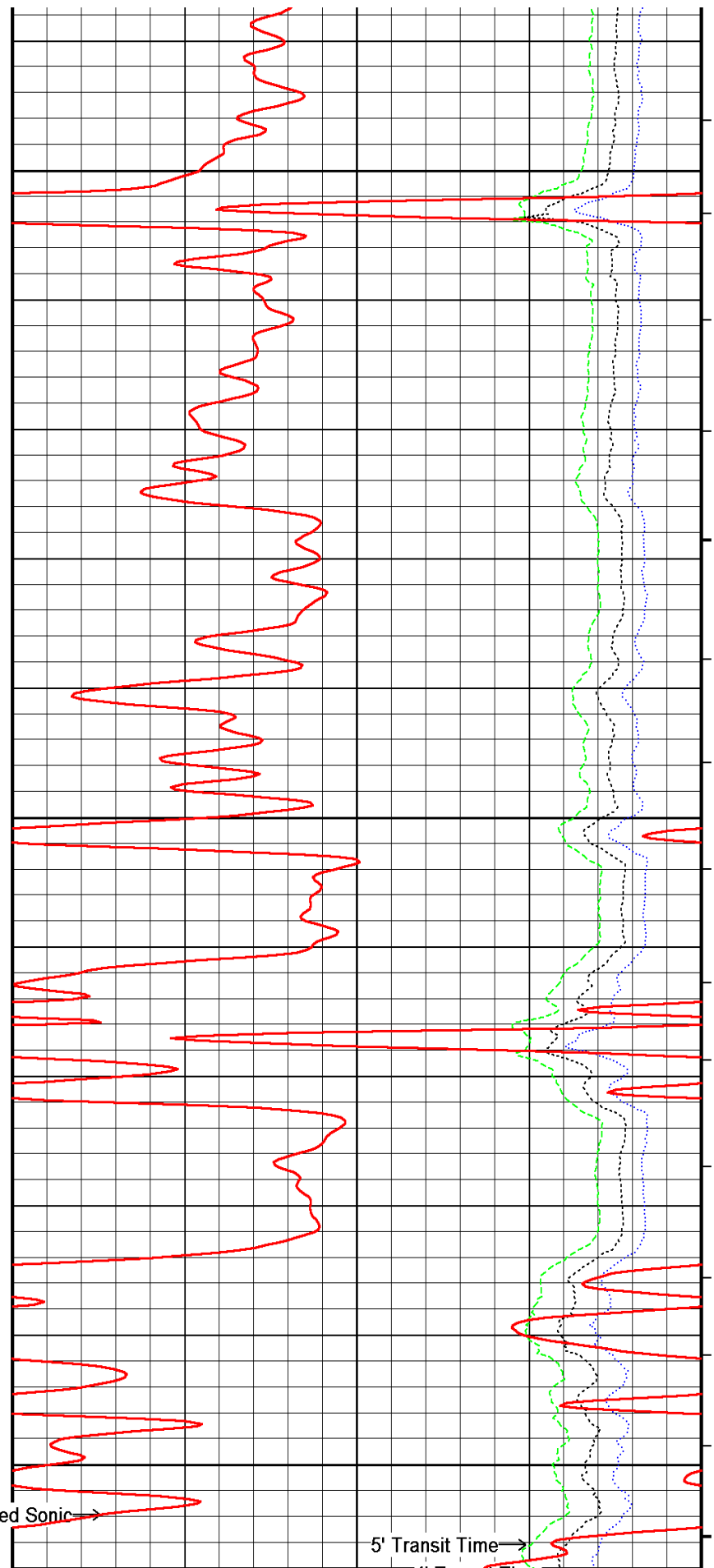
700

710

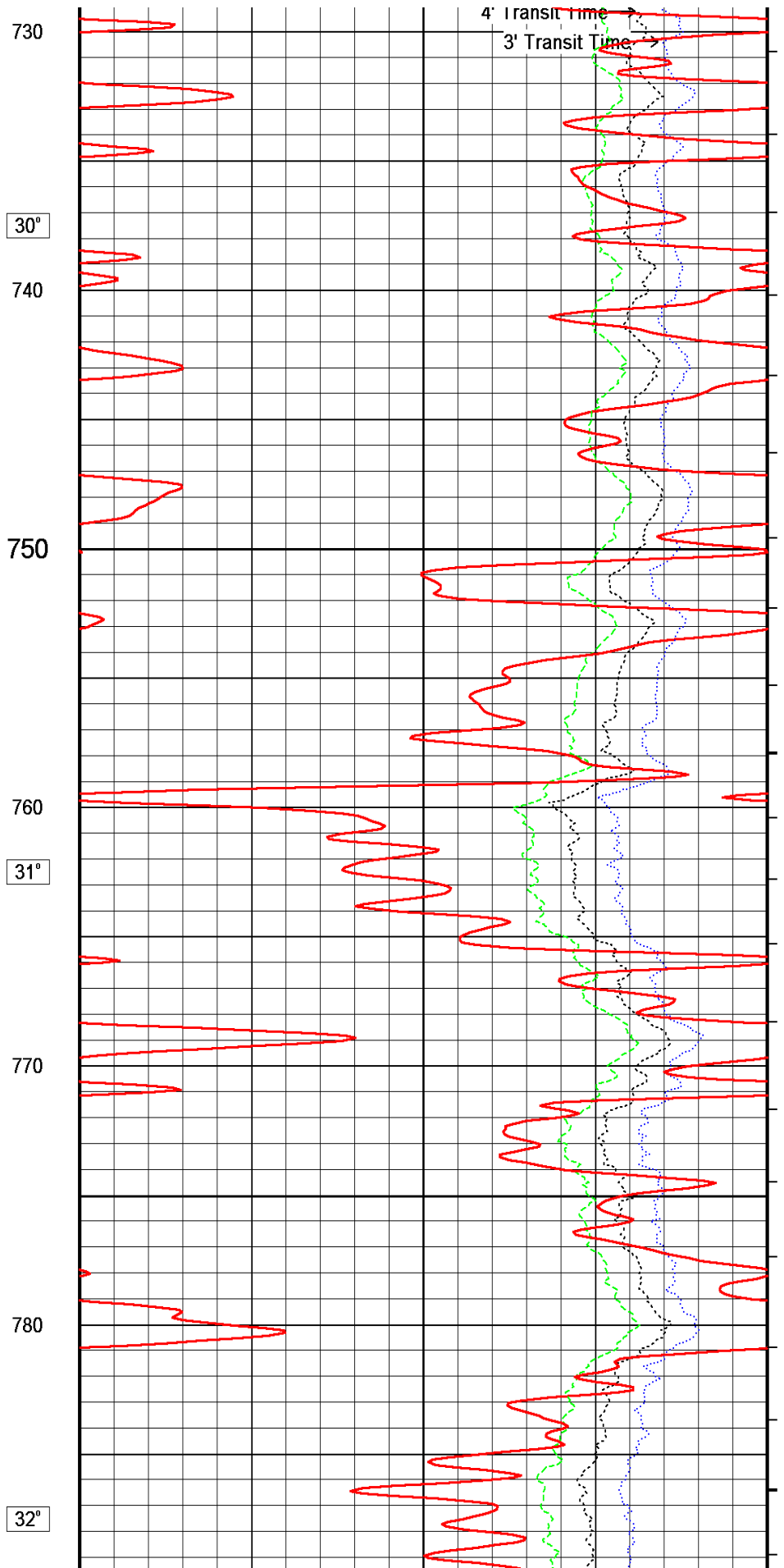
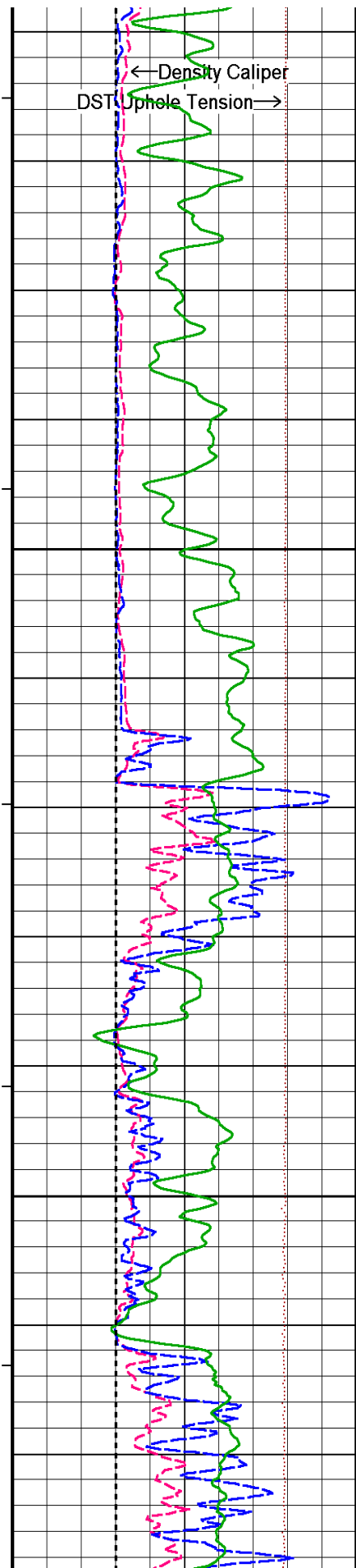
30°

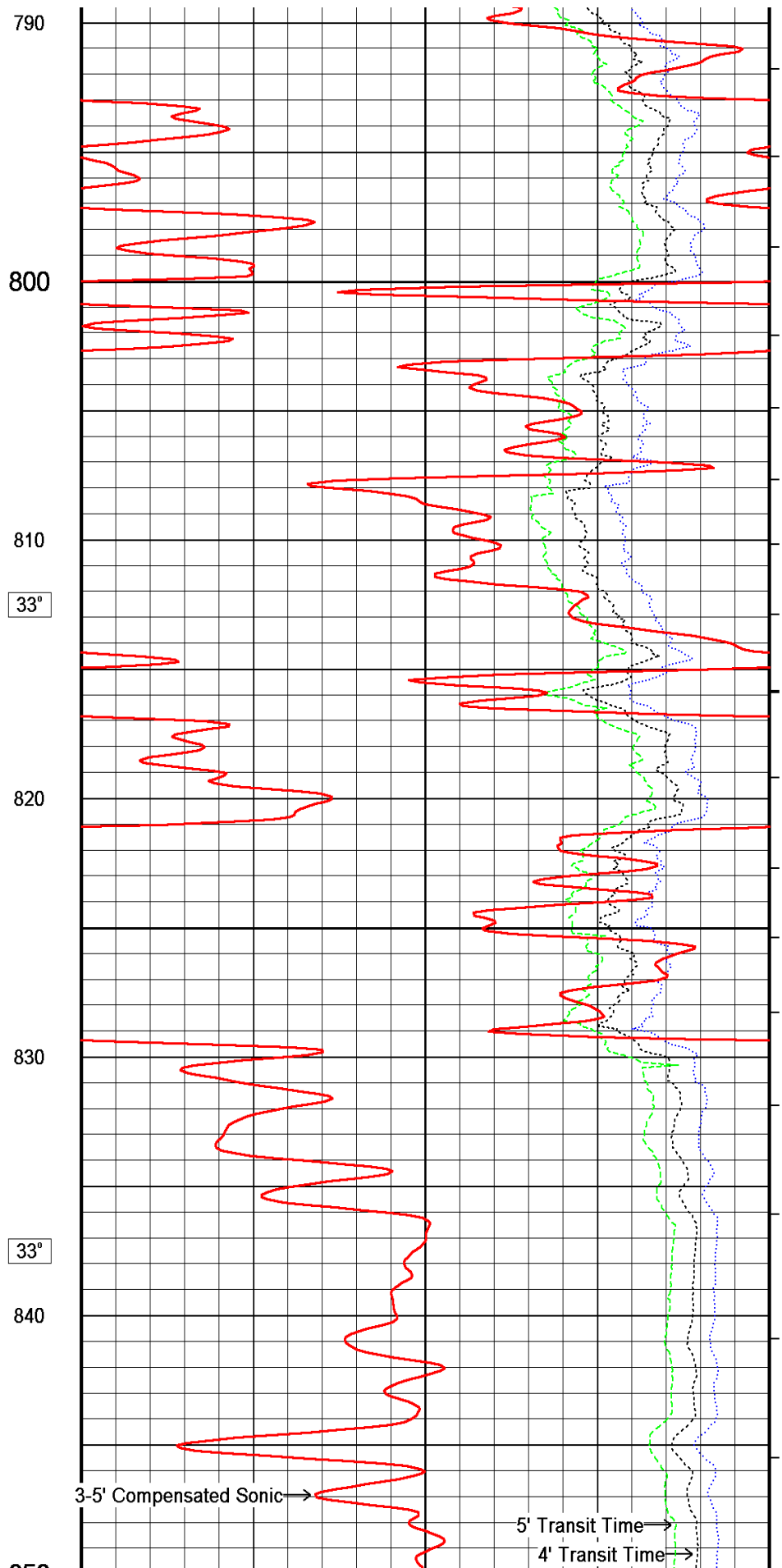
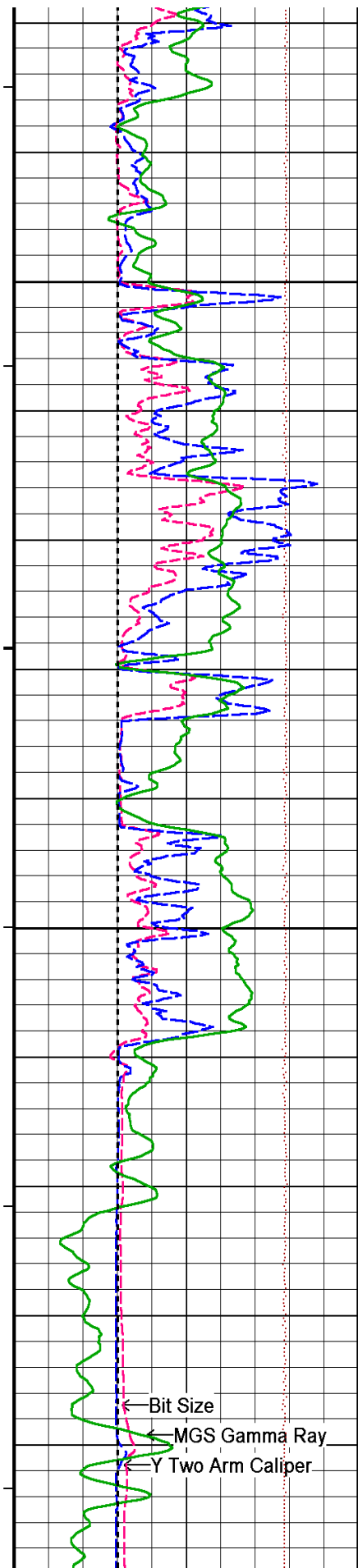
720

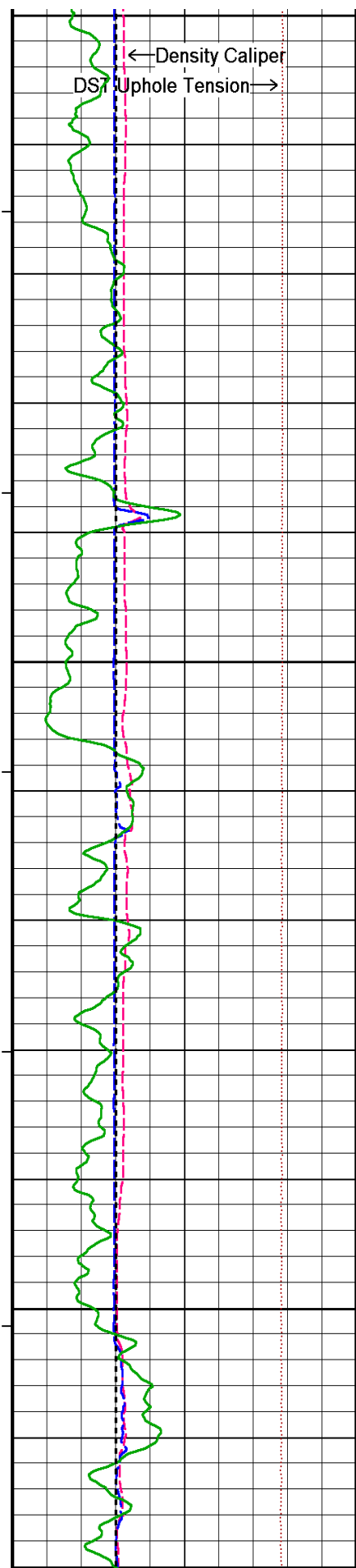
3-5' Compensated Sonic →



5' Transit Time →







850

860

34°

870

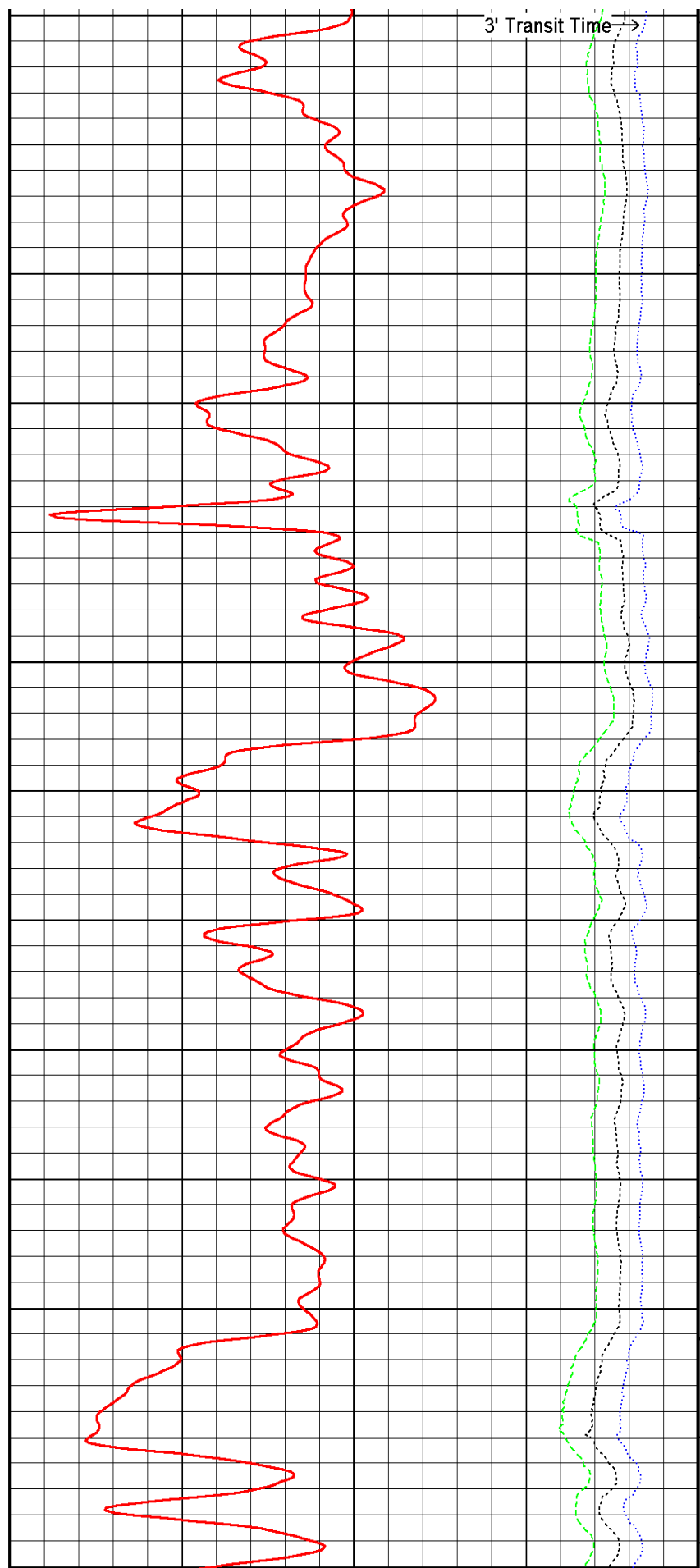
880

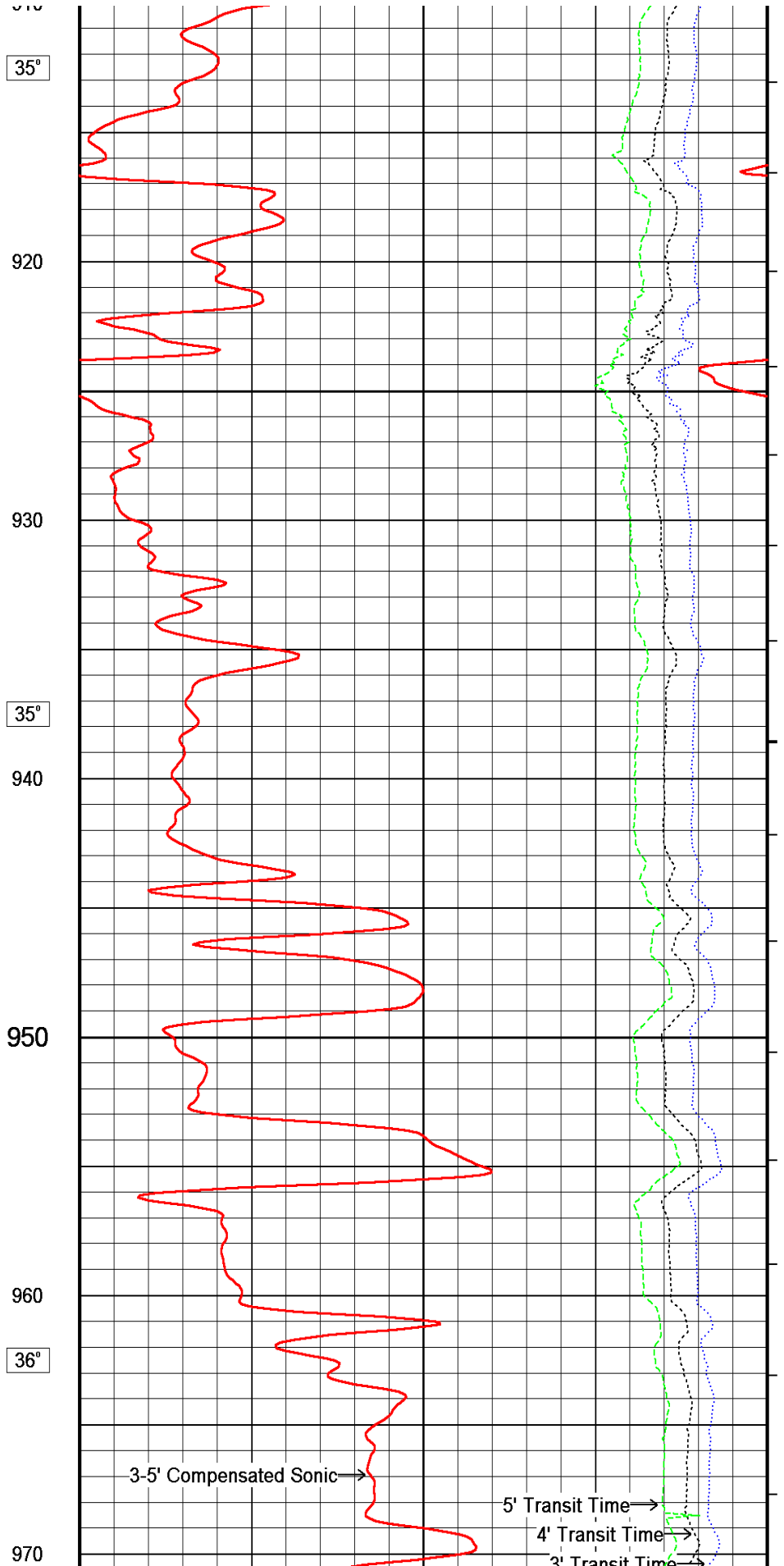
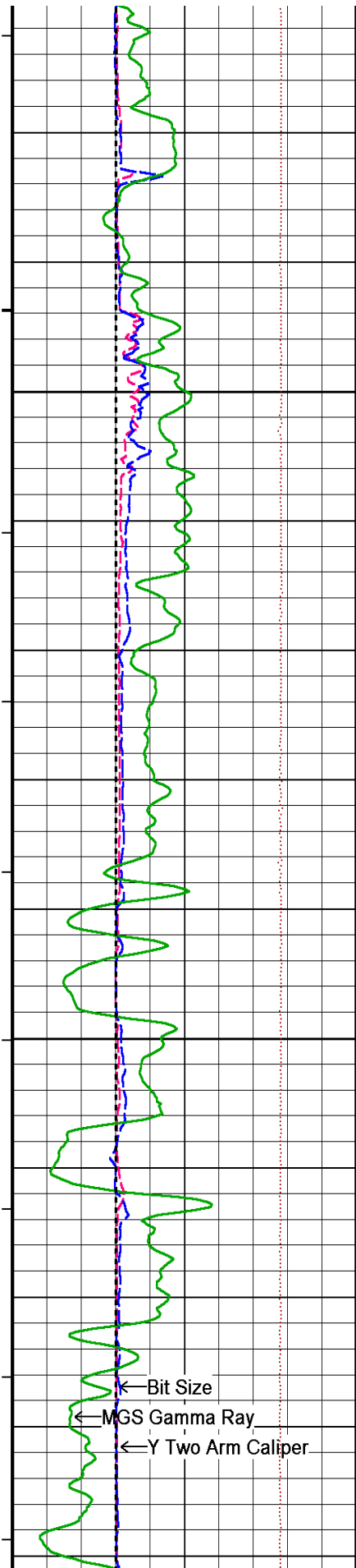
34°

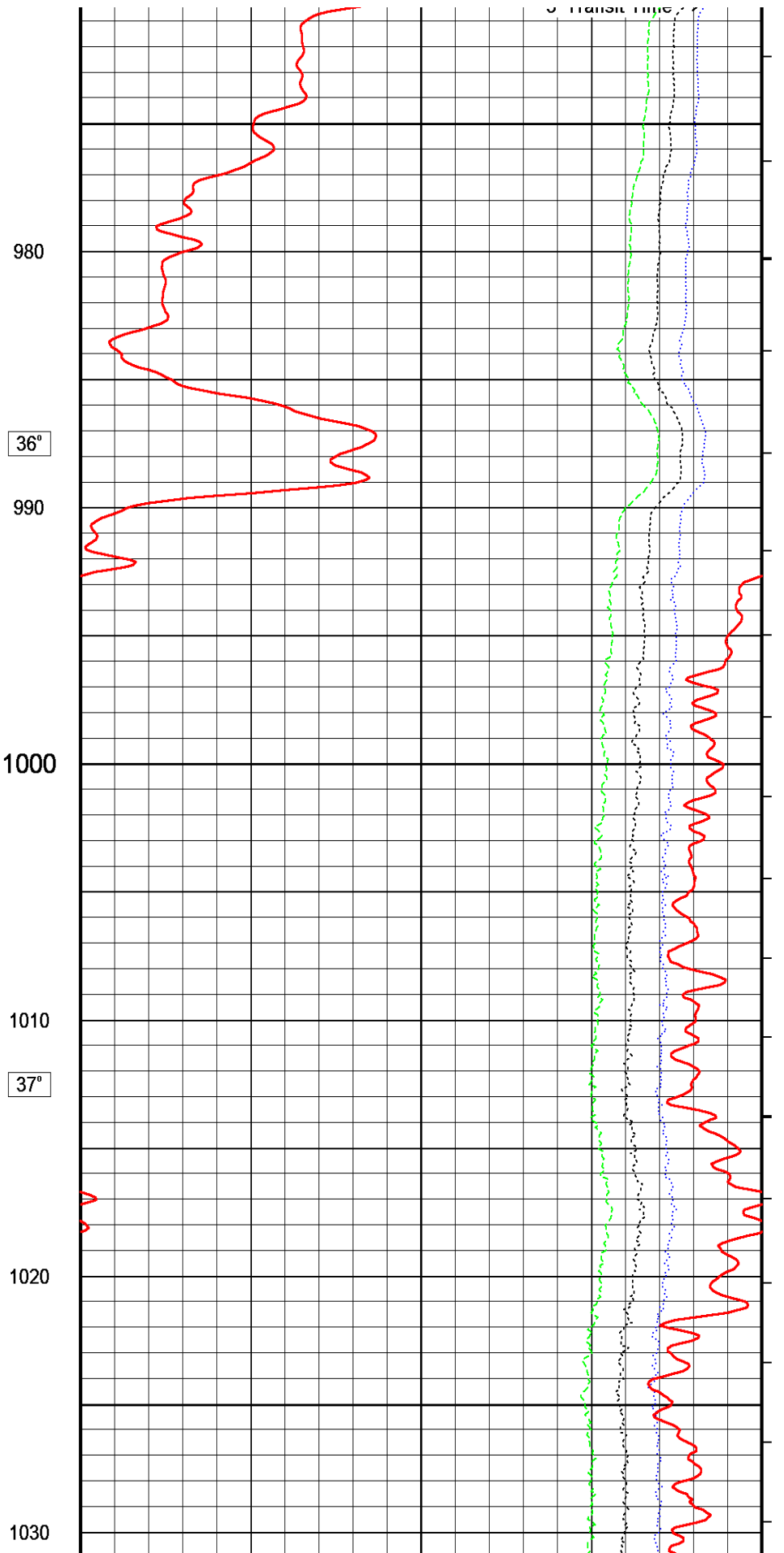
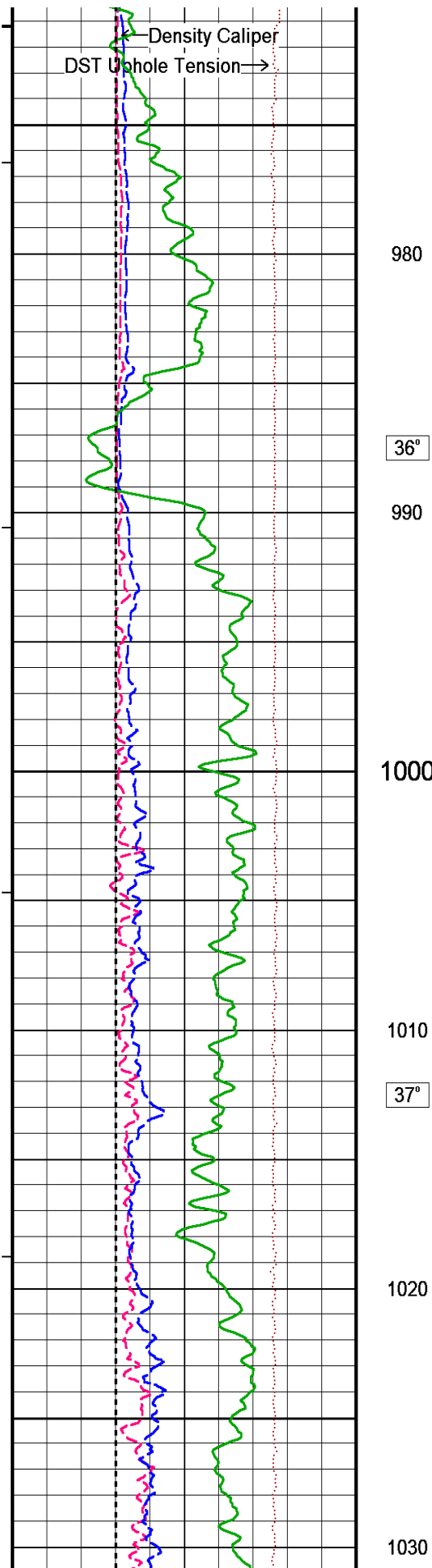
890

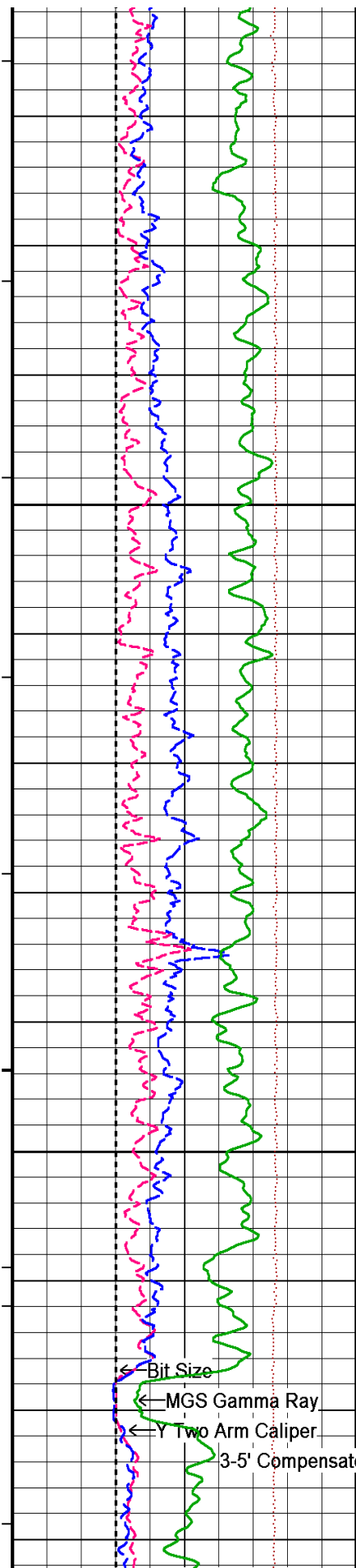
900

910









37°

1040

1050

1060

38°

1070

1080

← Bit Size

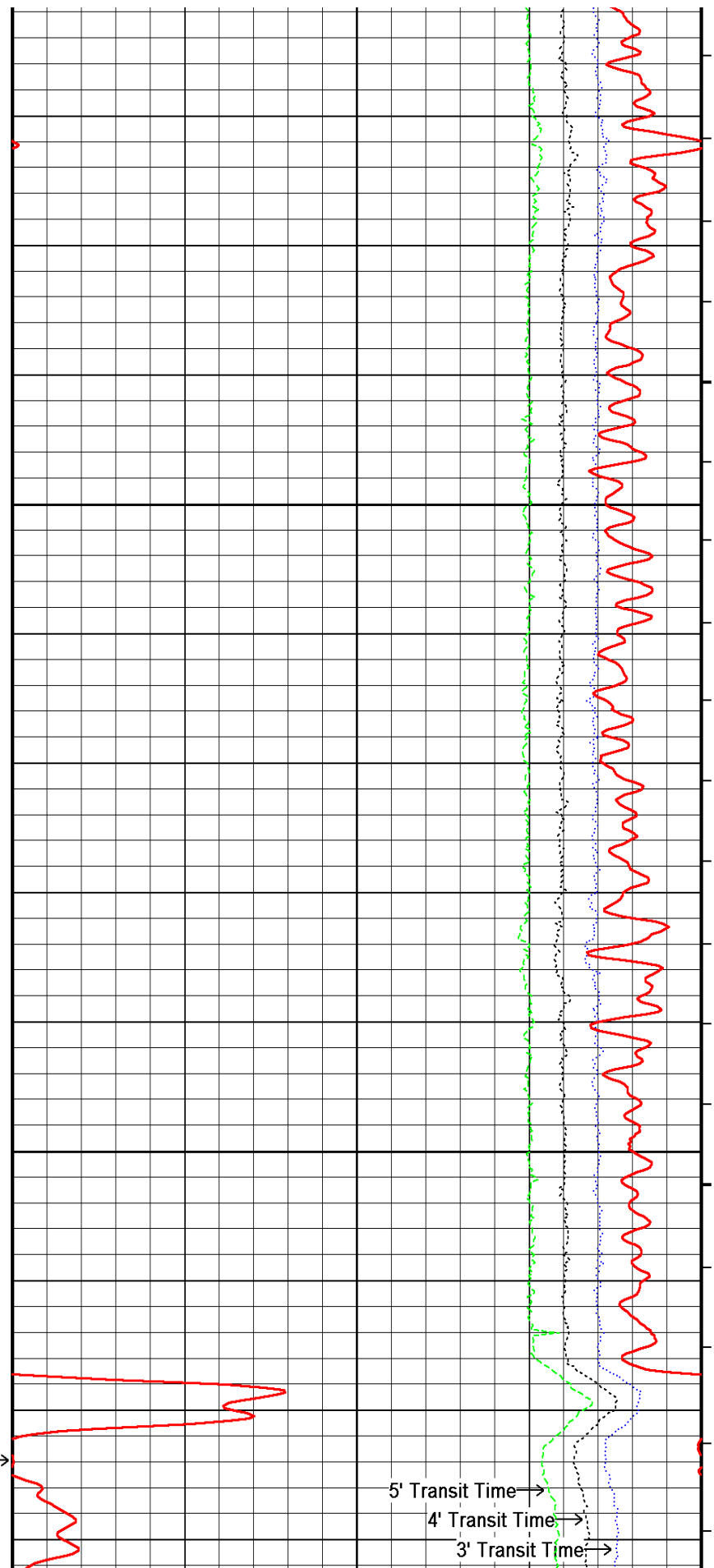
← MGS Gamma Ray

← Y Two Arm Caliper

← 3-5' Compensated Sonic

38°

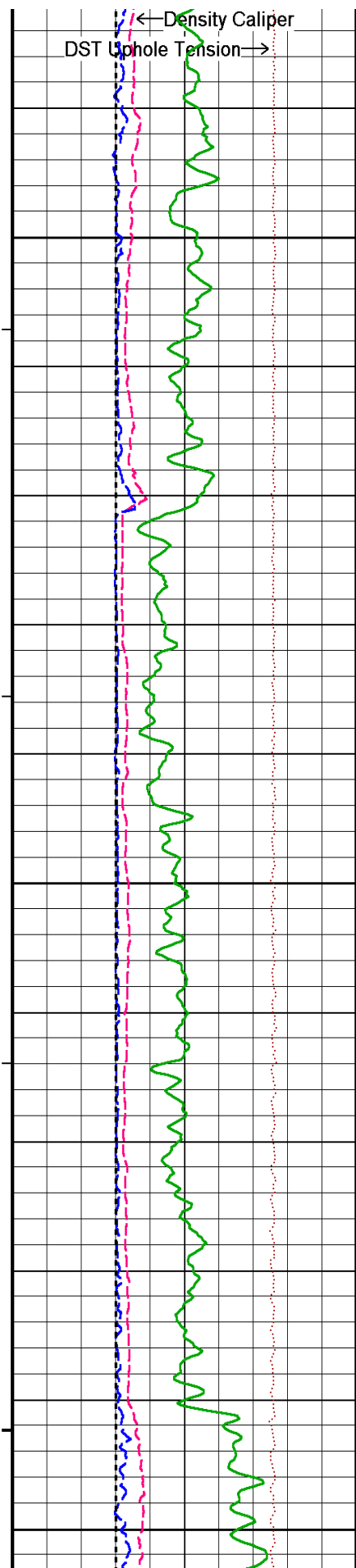
1090



5' Transit Time →

4' Transit Time →

3' Transit Time →



1100

1110

39°

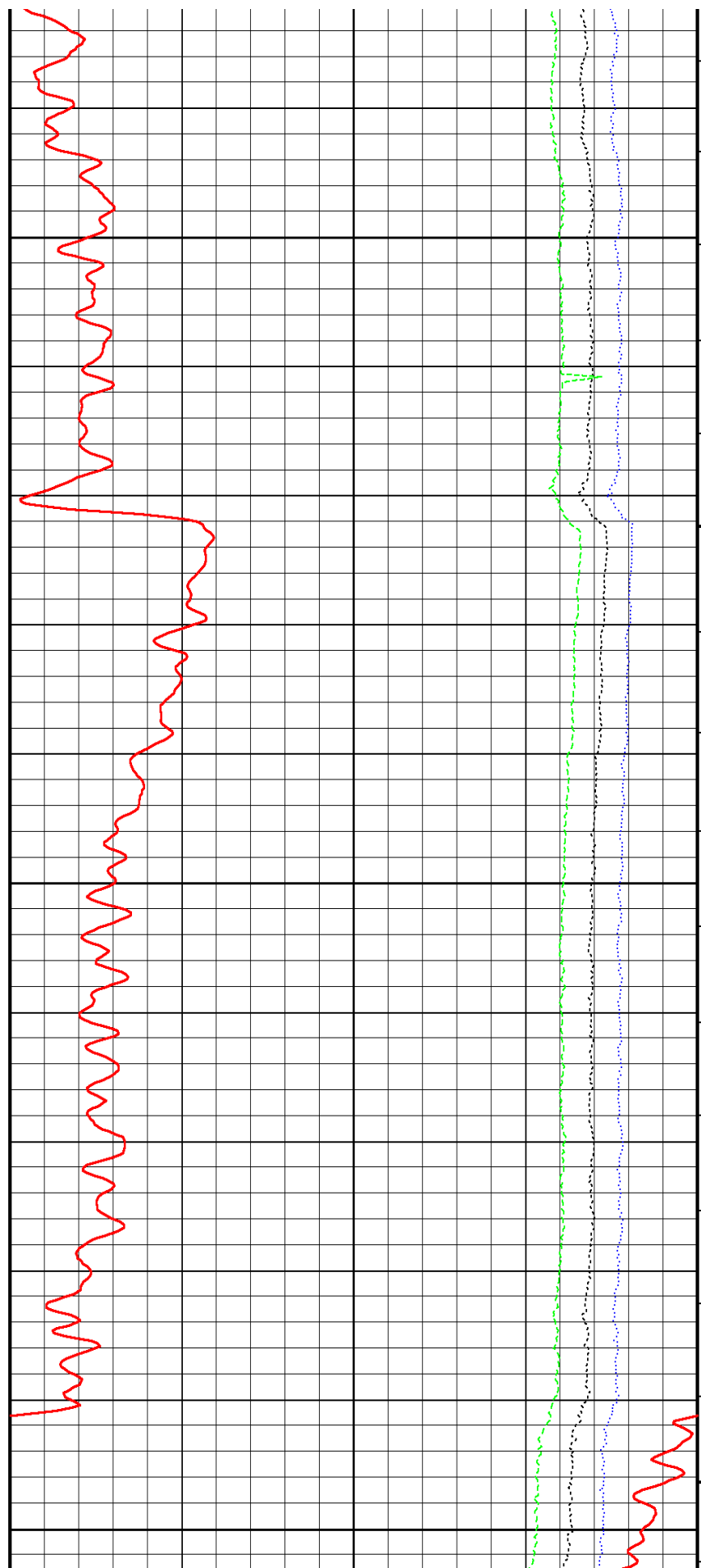
1120

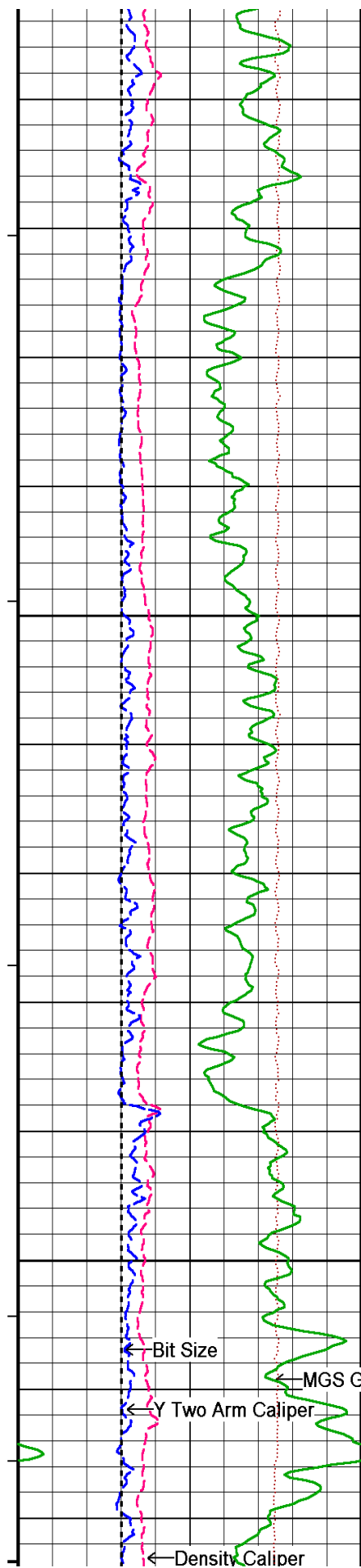
1130

40°

1140

1150





1160

40°

1170

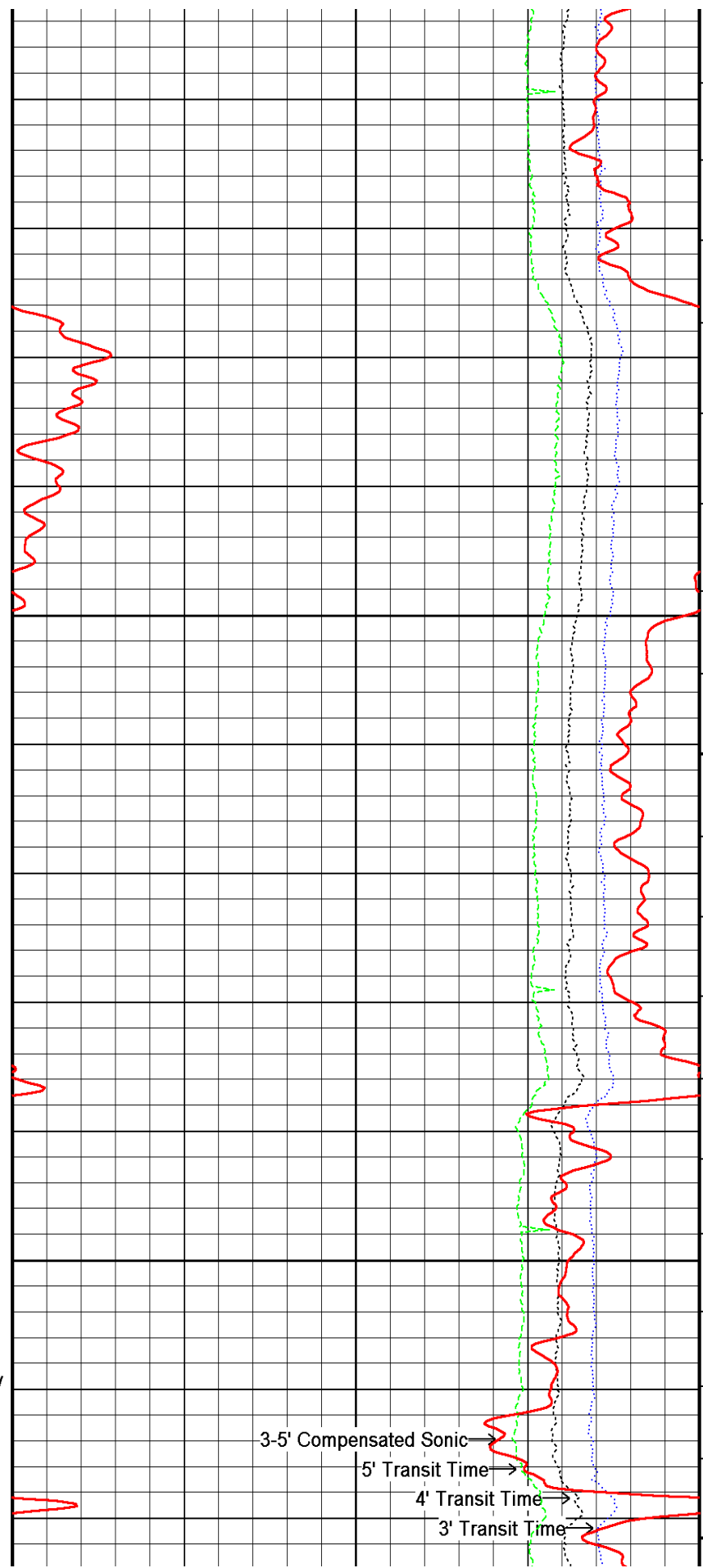
1180

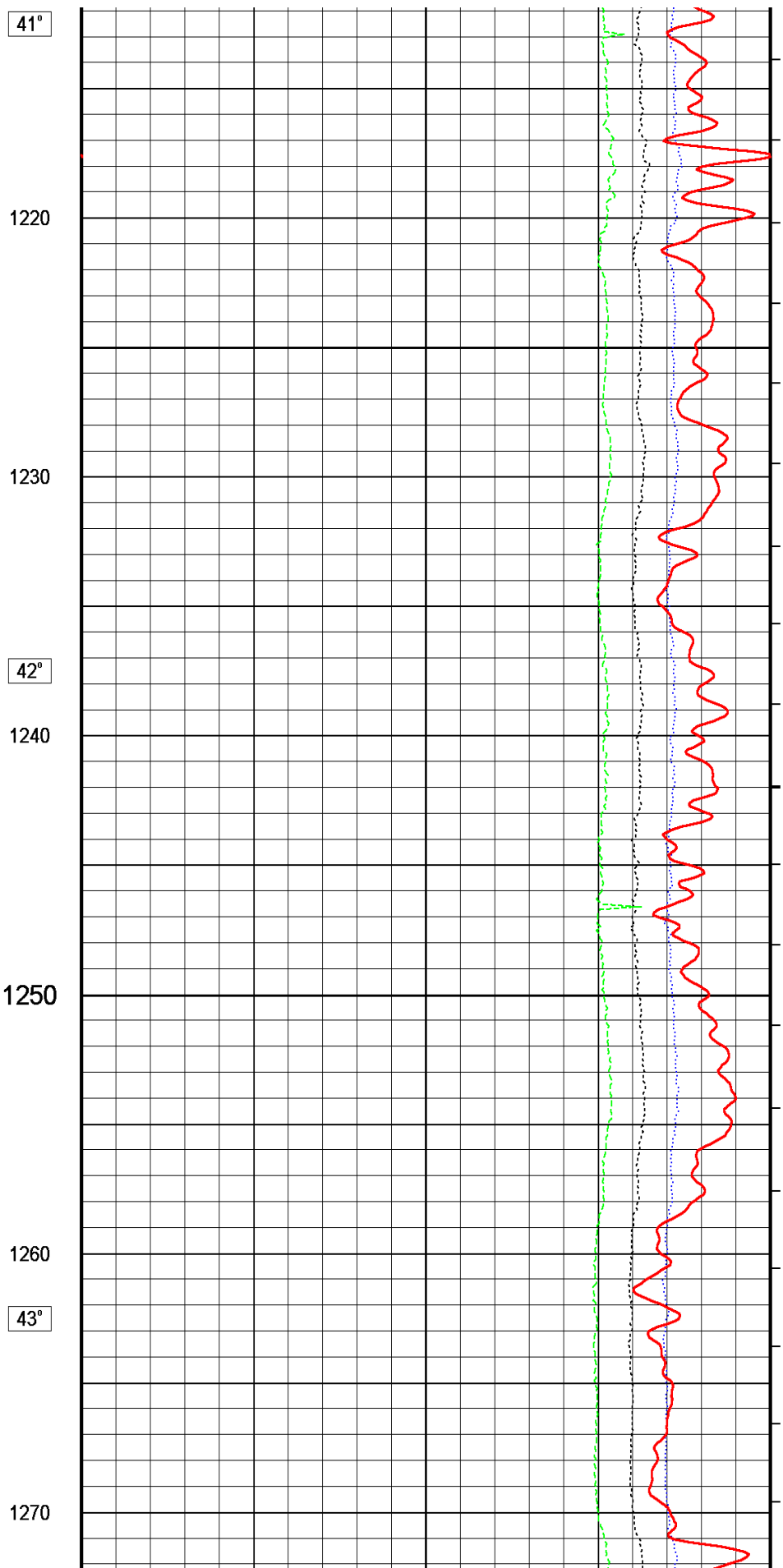
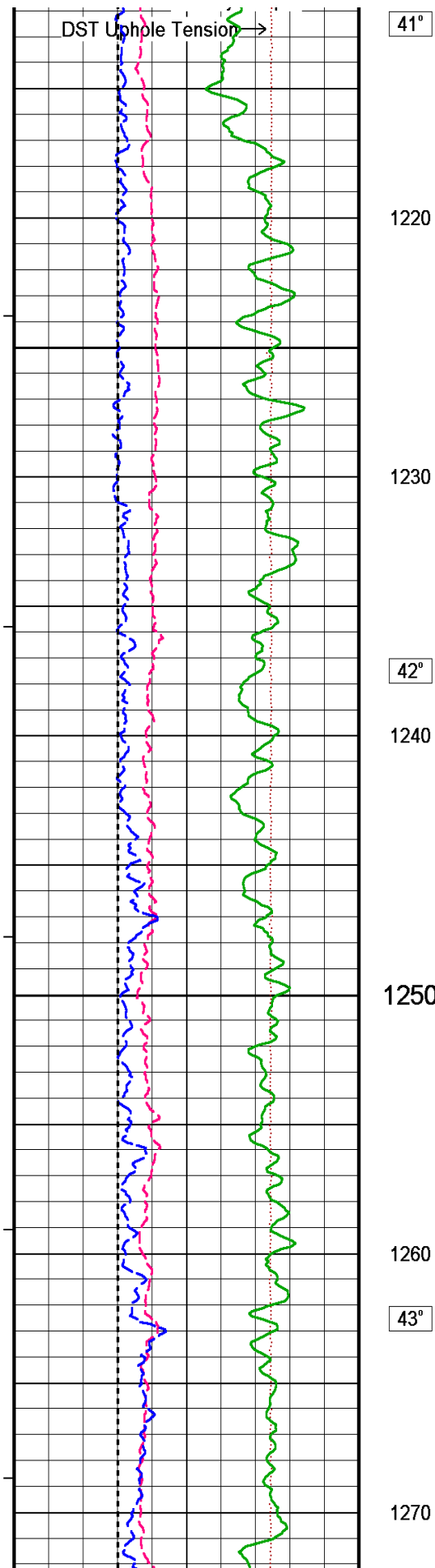
41°

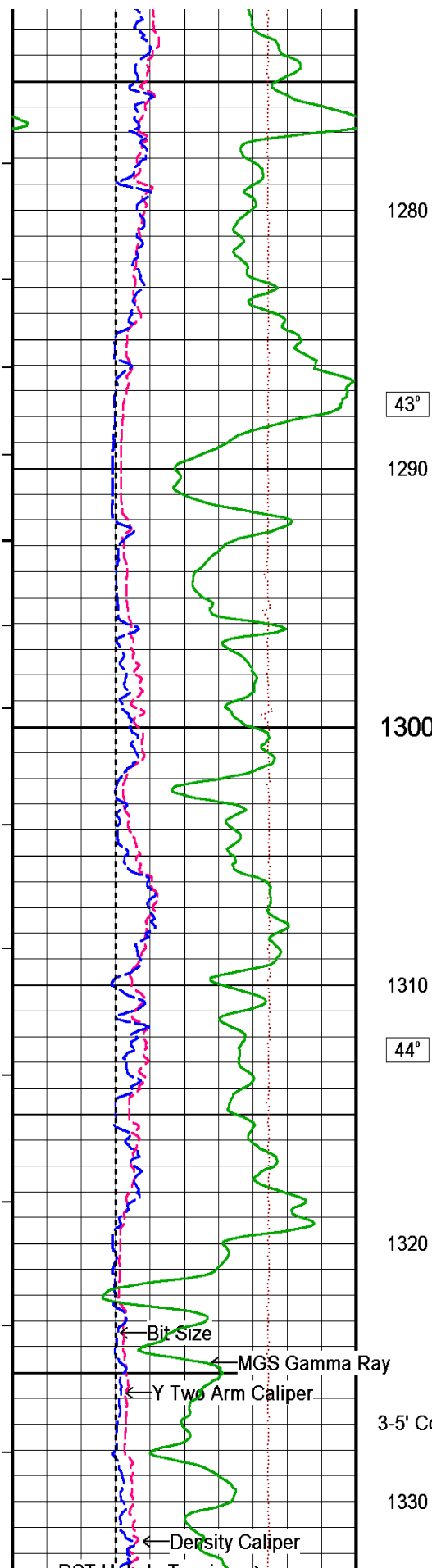
1190

1200

1210







1280

43°

1290

1300

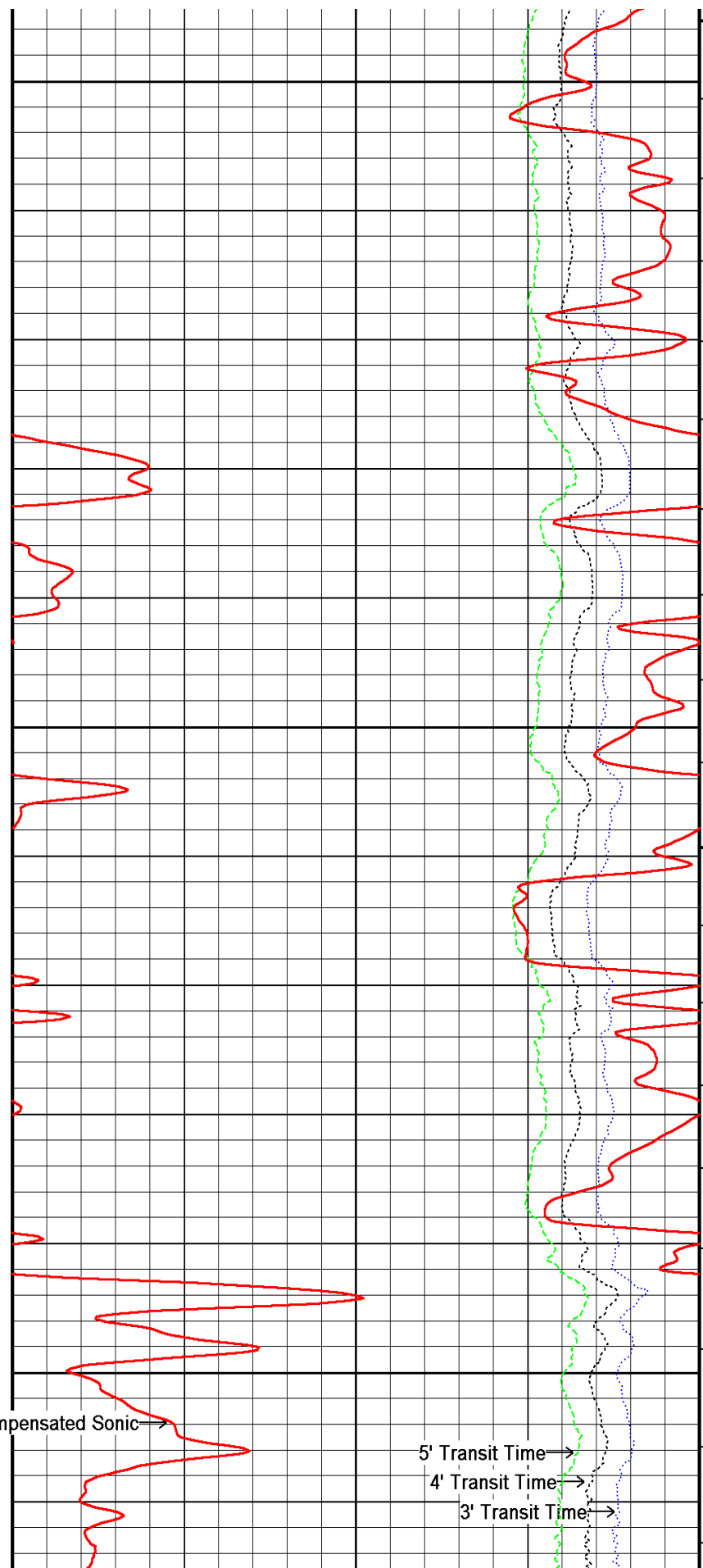
1310

44°

1320

3-5' Compensated Sonic

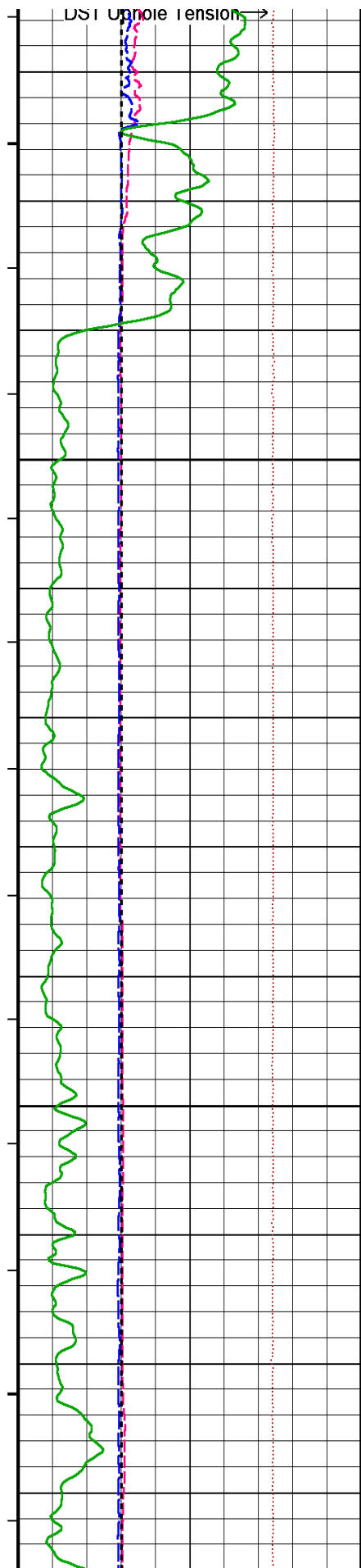
1330



5' Transit Time

4' Transit Time

3' Transit Time



45°

1340

1350

1360

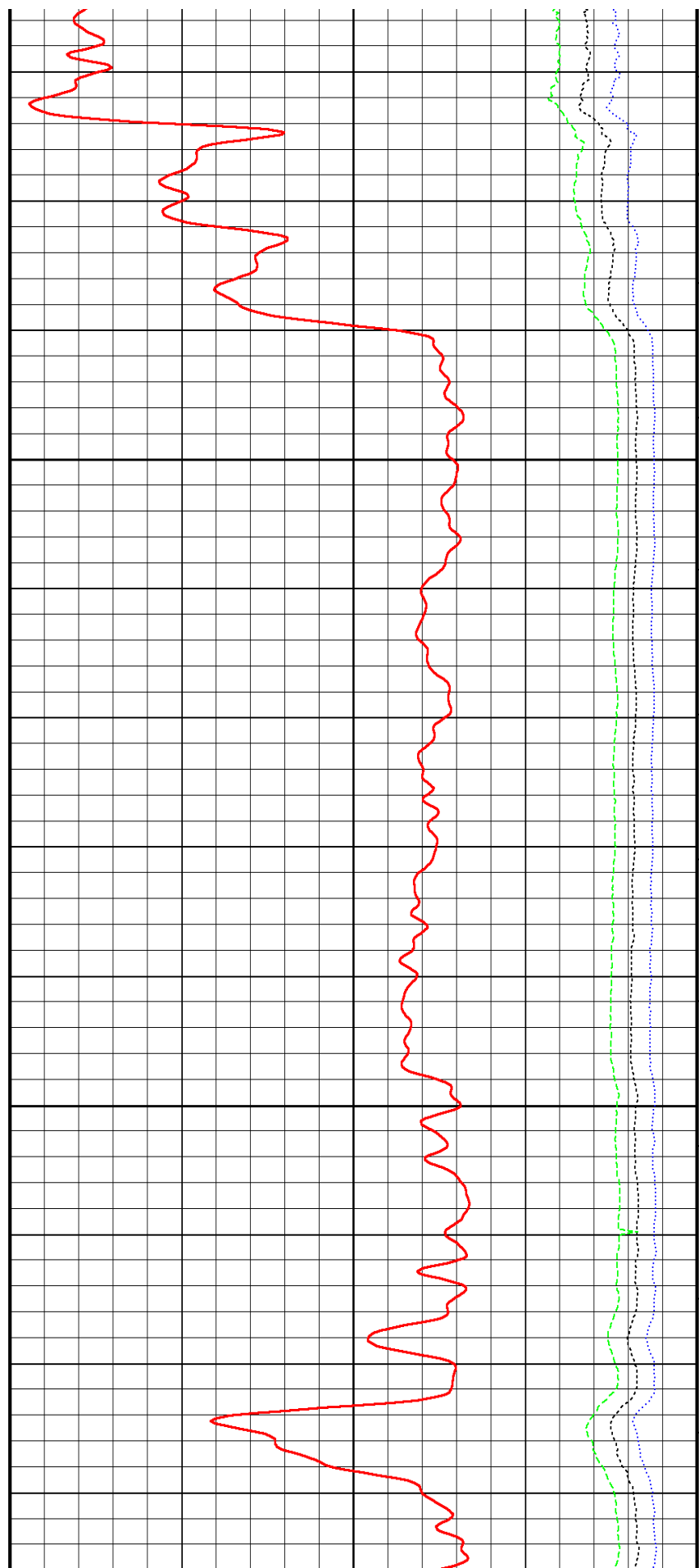
45°

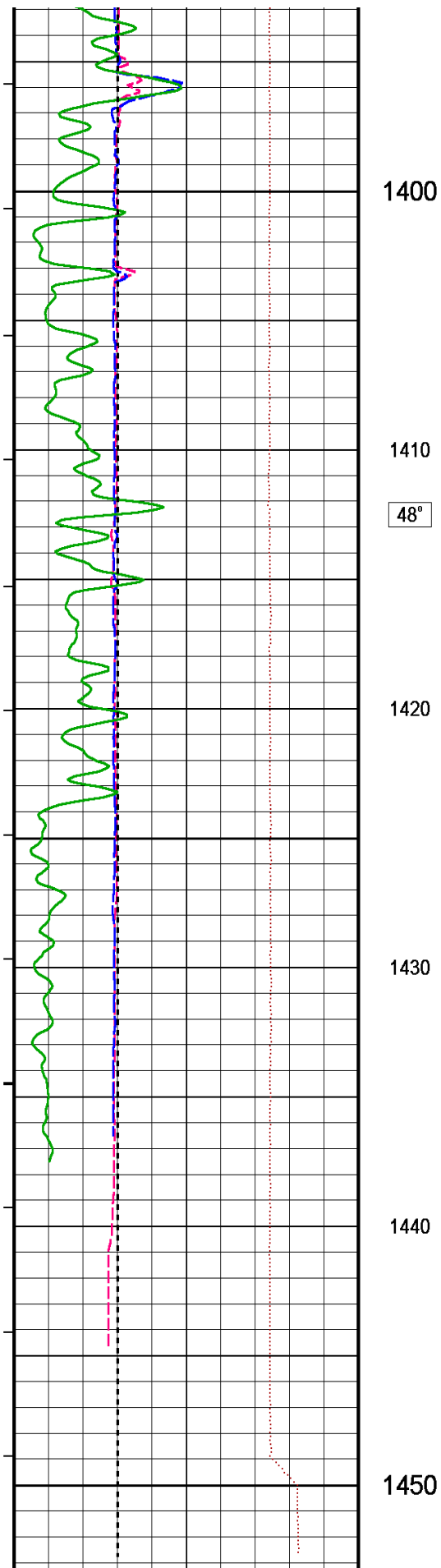
1370

1380

46°

1390





1400

1410

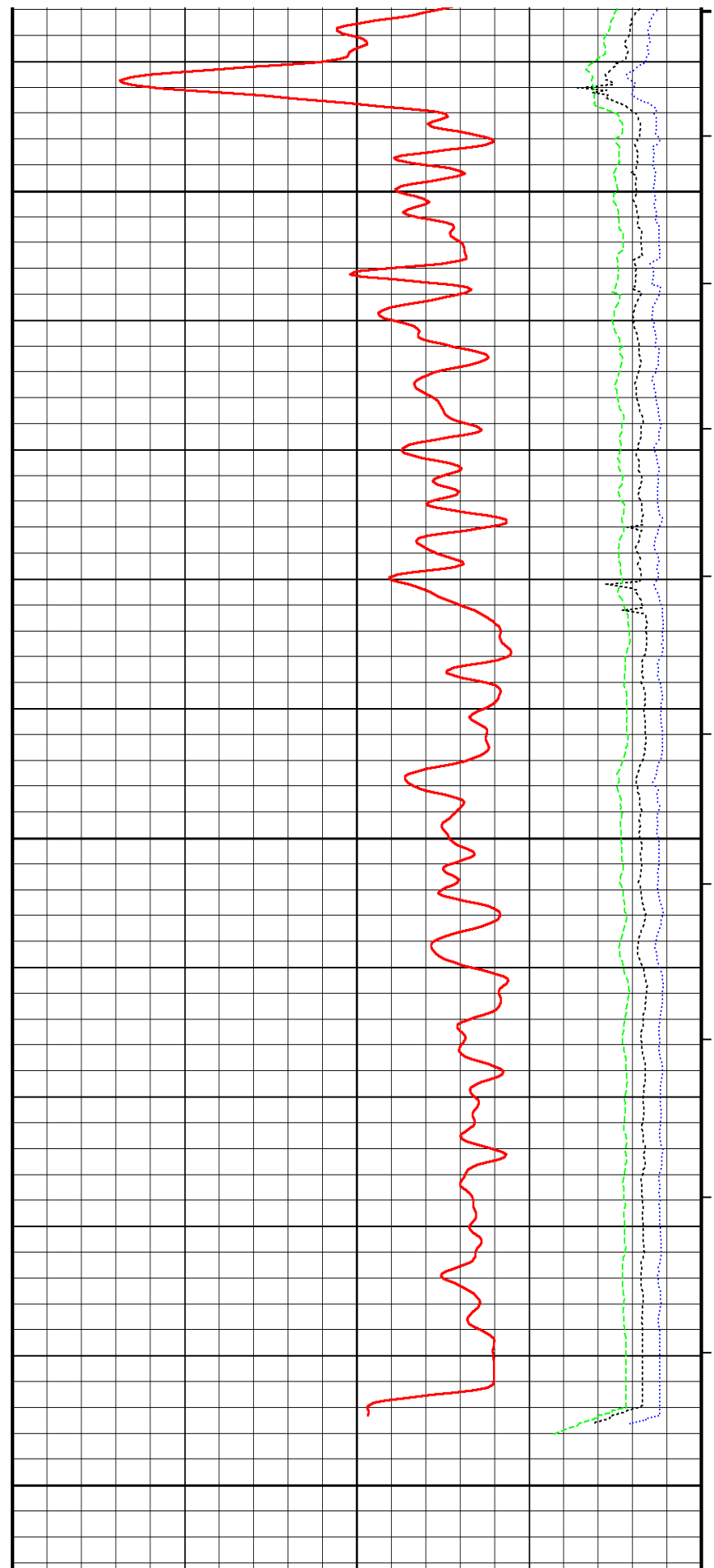
48°

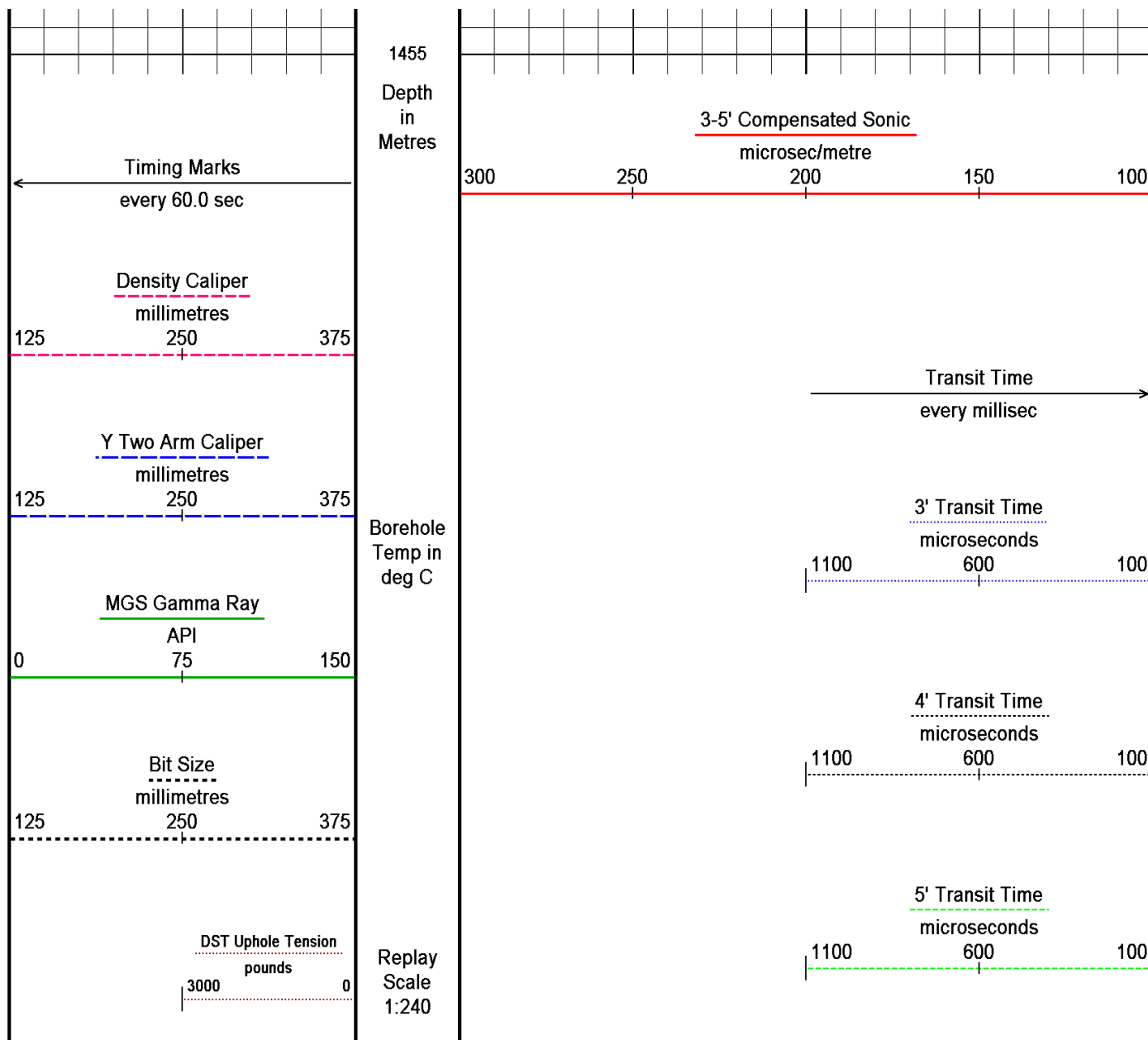
1420

1430

1440

1450





Depth Based Data - Maximum Sampling Increment 10.0cm

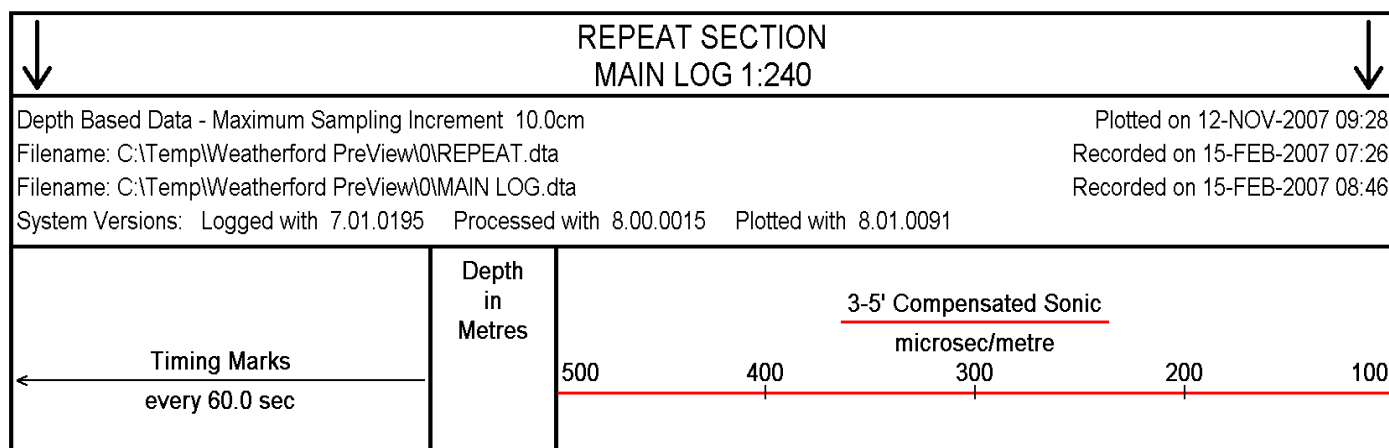
Filename: C:\Temp\Weatherford PreView\0\MAIN LOG.dta

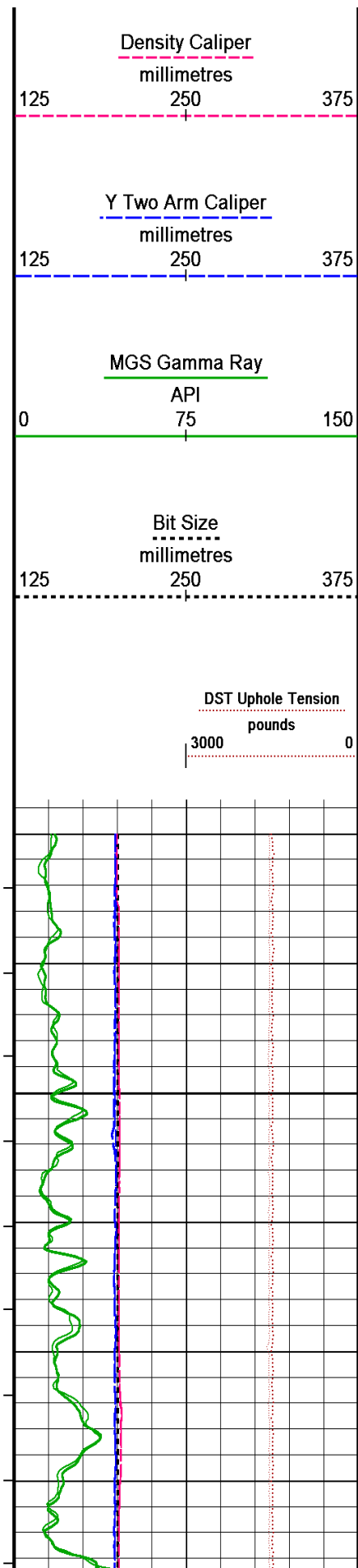
System Versions: Processed with 8.00.0015 Plotted with 8.01.0091

Plotted on 12-NOV-2007 09:28

Recorded on 15-FEB-2007 08:46

↑ MAIN LOG 1:240 ↑





Borehole
Temp in
deg C

Replay
Scale
1:240

1365

1370

1380

45°

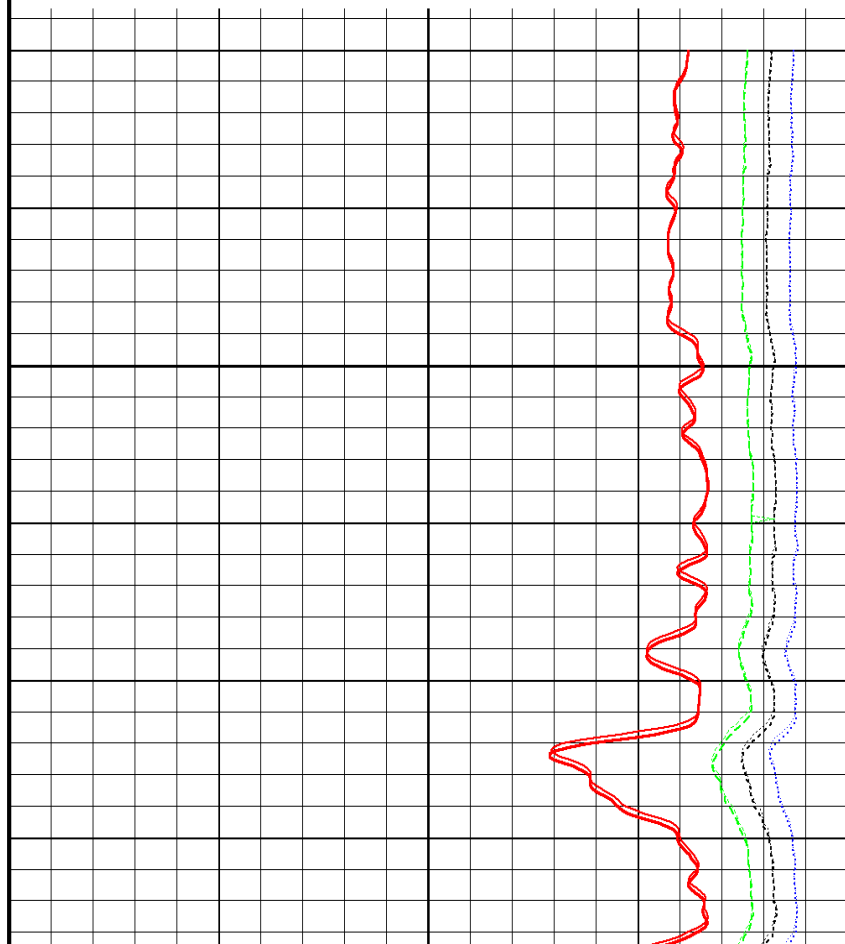
1390

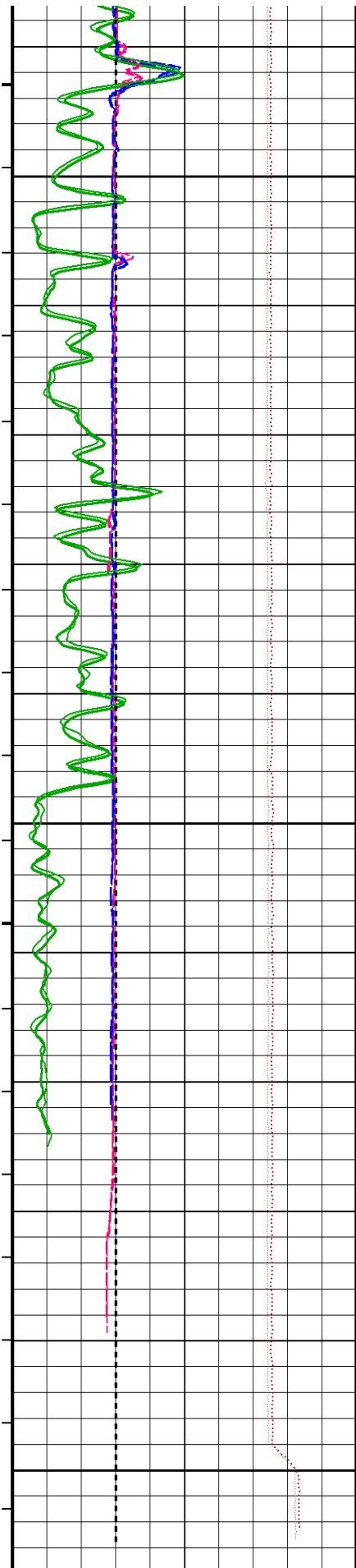
Transit Time
every millisecc

3' Transit Time
microseconds
1100 600 100

4' Transit Time
microseconds
1100 600 100

5' Transit Time
microseconds
1100 600 100





1400

1410

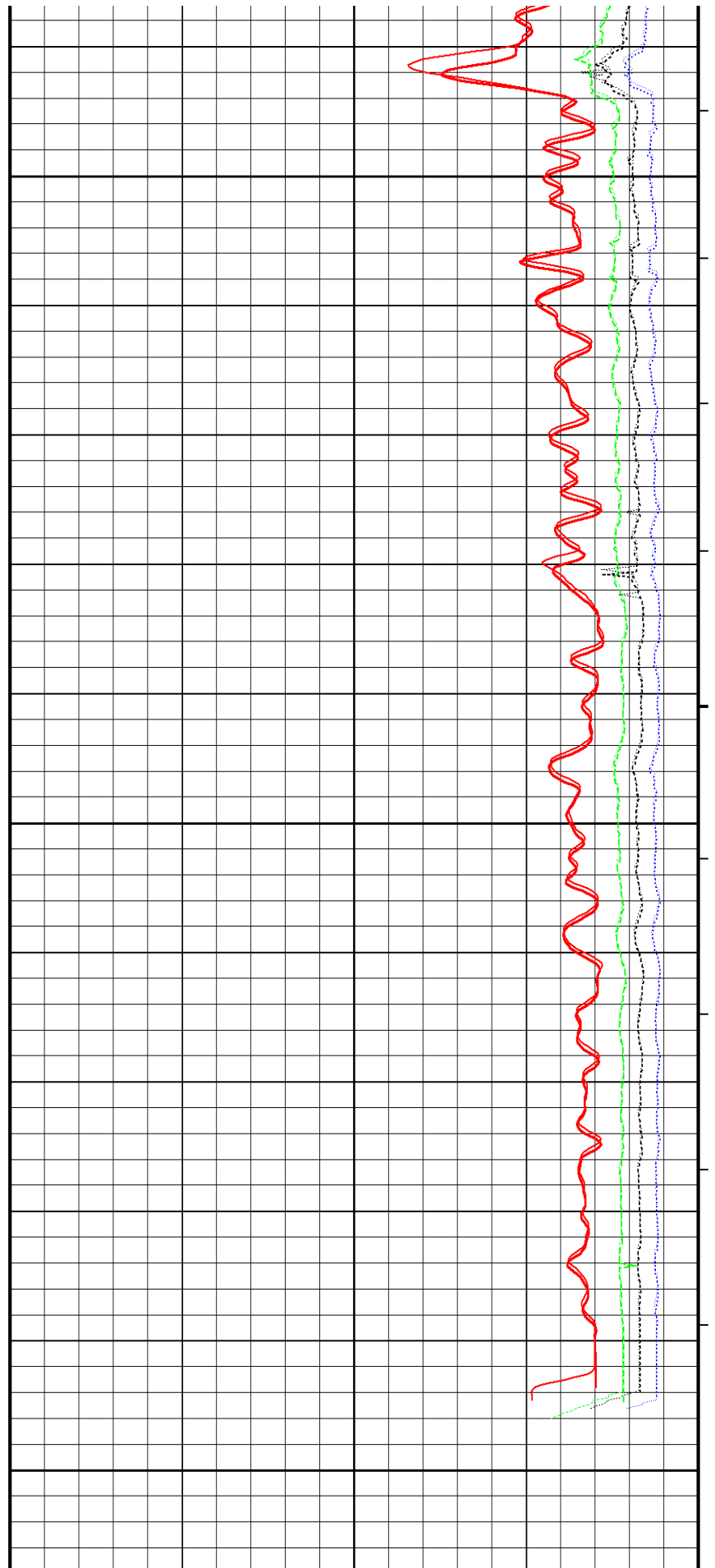
46°

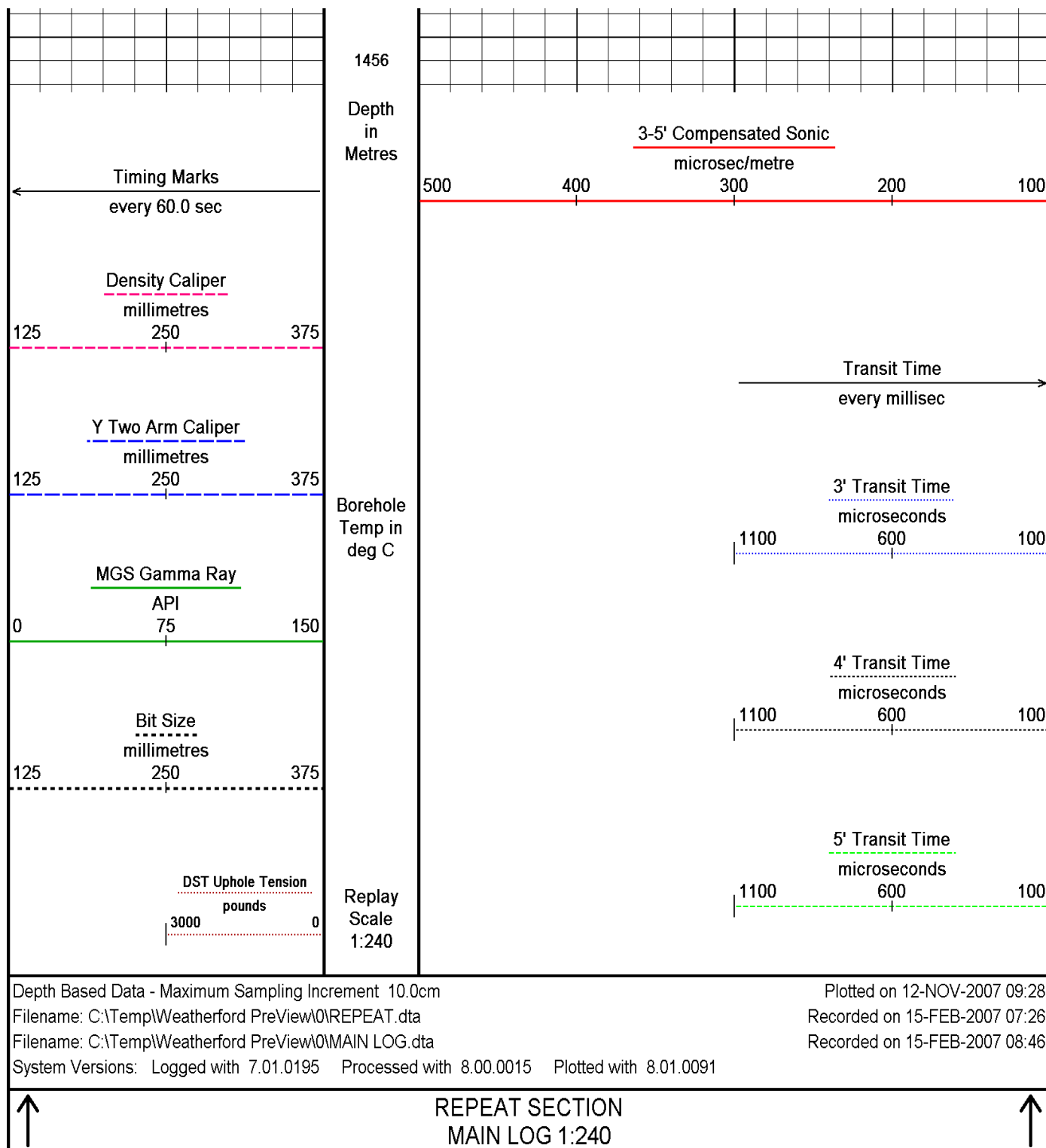
1420

1430

1440

1450





BEFORE SURVEY CALIBRATION		
C:\Temp\Weatherford PreView\0\REPEAT.dta		
General Constants All 000		Last Edited on 15-FEB-2007,06:48
General Parameters		
Mud Resistivity	1.180	ohm-metres
Mud Resistivity Temperature	25.000	degrees C
Water Level	0.000	metres
Density/Neutron Processing	Wet Hole	

Hole/Annular Volume and Differential Caliper Parameters		
HVOL Caliper 1	Density Caliper	
HVOL Caliper 2	Y Two Arm Caliper	
Annular Volume Diameter	139.700	mm
Caliper for Differential Caliper	Density Caliper	
Rwa Parameters		
Porosity used	Base Density Porosity	
Resistivity used	Deep Induction	
RWA Constant A	0.610	
RWA Constant M	2.150	

High Resolution Temperature Calibration MCG 159			Field Calibration on 28-NOV-2006,15:40
	Measured	Calibrated(Deg C)	
Lower	10.00	10.00	
Upper	50.00	50.00	

High Resolution Temperature Constants MCG 159			Last Edited on 28-NOV-2006,15:40
Pre-filter Length	11		

Caliper Calibration MTC 006			Base Calibration on 25-JAN-2007,18:14	Field Calibration on 10-FEB-2007,20:21
Base Calibration				
Reading No	Measured	Calibrator Size (mm)		
1	14734	110.00		
2	17539	162.00		
3	20248	212.00		
4	22990	262.00		
5	25897	311.00		
6	N/A	N/A		
Field Calibration				
	Measured Caliper (mm)	Actual Caliper (mm)		
	208.70	205.70		

Gamma Calibration MGS 010			Field Calibration on 7-FEB-2007,09:09
	Measured	Calibrated (API)	
Background	48	31	
Calibrator (Gross)	1256	825	
Calibrator (Net)	1208	794	

Gamma Constants MGS 010			Last Edited on 15-FEB-2007,06:48
Gamma Calibrator Number	grcc075		
Mud Density	1060.00	kg/m3	
Caliper Source for Processing	Density Caliper		
Tool Position	Centred		
Concentration of KCl	0.00	kppm	

Caliper Calibration MPD 036			Base Calibration on 23-JAN-2007 04:20	Field Calibration on 7-FEB-2007,11:28
Base Calibration				
Reading No	Measured	Calibrator Size (mm)		
1	18576	110.00		
2	28032	162.00		
3	37841	212.00		
4	48080	262.00		
5	57920	311.00		
6	N/A	N/A		
Field Calibration				
	Measured Caliner (mm)	Actual Caliner (mm)		

measured sample (mm) 166.10
 total sample (mm) 166.10

Sonic Constants MSS 060

Last Edited on 7-FEB-2007,10:50

Maximum Boundary Contrast	328.08	micro-sec/m
Fluid Transit Time	620.08	micro-sec/m
Limestone Transit Time	155.84	micro-sec/m
Sandstone Transit Time	182.09	micro-sec/m
Dolomite Transit Time	142.72	micro-sec/m
Sonic used for Porosities	3-5' Compensated Sonic	
Correction for Sonde Skew	Applied	
Cycle Stretch Algorithm	Applied	
MN3FT	N/A	micro-sec
MX3FT	N/A	micro-sec
Hunt-Raymer Constant	83.13	micro-sec/ft

Fixed Gate Parameters

Start Time (micro-sec)	End Time (micro-sec)	Discriminator (mV)	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Down Hole Fixed Gate Parameters

Gate Start	N/A	micro-sec
Gate Width	N/A	micro-sec
Initial Discriminator Level	0.0000	mVolts

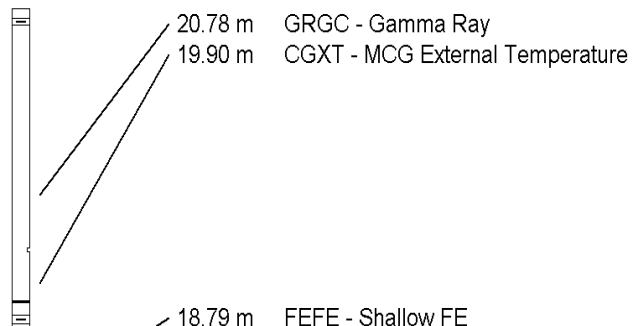
Full Waveform Parameters

Use 3' Waveform to derive TR	N/A
Use 4' Waveform to derive TR	N/A
Use 5' Waveform to derive TR	N/A
Use 6' Waveform to derive TR	N/A
3' Waveform Discriminator Level	N/A mV
4' Waveform Discriminator Level	N/A mV
5' Waveform Discriminator Level	N/A mV
6' Waveform Discriminator Level	N/A mV
3' Waveform Filter	N/A
4' Waveform Filter	N/A
5' Waveform Filter	N/A
6' Waveform Filter	N/A
Semblance Level	N/A
Semblance Window Width	N/A micro-sec
Sonic 1 Despiker	N/A N/A
Sonic 2 Despiker	N/A N/A

DOWNHOLE EQUIPMENT

C:\Temp\Weatherford PreView\0\REPEAT.dta

Compact Gamma
 MCG 159 Length: 2.65 m Weight: 63.9 lb



Compact Focused Electric

MFE 17 Length: 1.84 m Weight: 48.5 lb

Compact Two Arm Caliper
MTC 6 Length: 2.17 m Weight: 61.7 lb

Compact Short Gamma
MGS 10 Length: 1.04 m Weight: 24.3 lb

Compact InterSonde Crank
ISC 159 Length: 0.70 m Weight: 24.3 lb

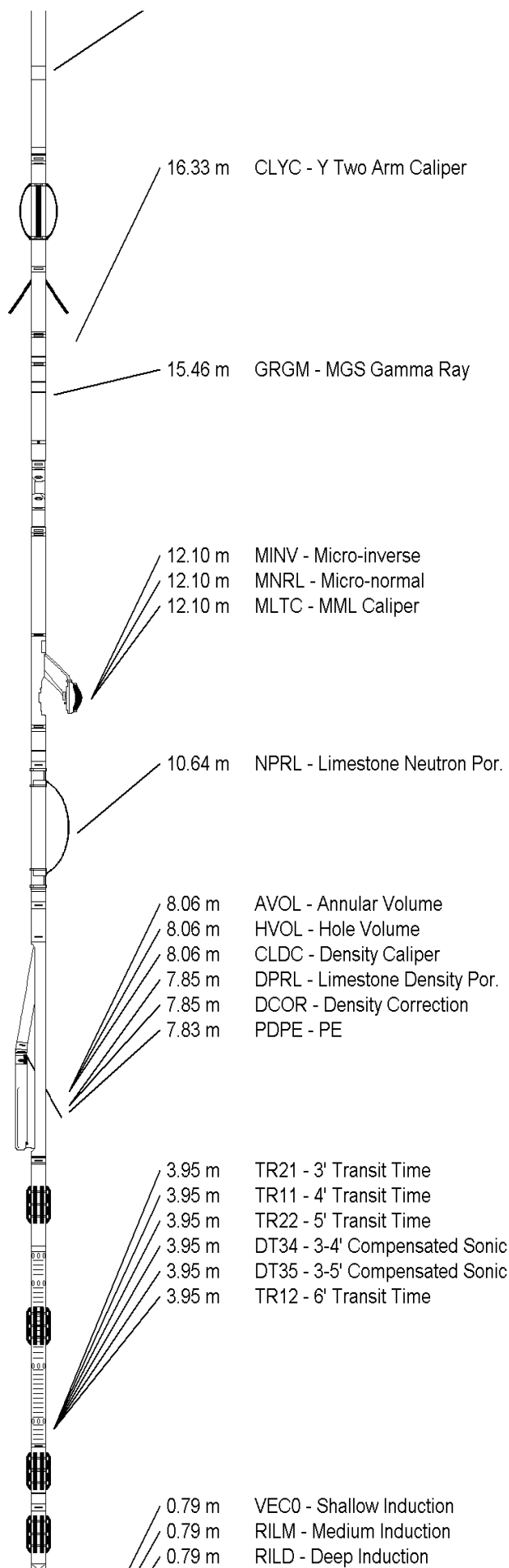
Compact Micro-log
MML 15 Length: 2.43 m Weight: 81.6 lb

Compact Neutron
MDN 144 Length: 1.53 m Weight: 50.7 lb

Compact Density/Caliper
MPD 36 Length: 2.92 m Weight: 90.4 lb

Compact Sonic
MSS 60 Length: 3.82 m Weight: 72.8 lb

Compact Induction
MAI 72 Length: 3.29 m Weight: 48.5 lb



Compact Hole Finder

HFS 1 Length: 0.24 m

Weight: 2.2 lb

Total Length: 22.63 m

Weight: 568.8 lb



0.07 m SPCG - Spontaneous Potential
Tool Zero (0.28m from bottom)

All measurements relative to tool zero.

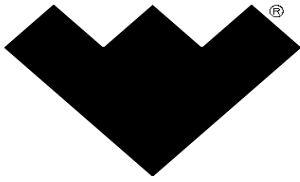
COMPANY	PARAMOUNT RESOURCES LTD.
WELL	PARAMOUNT ET AL CAMERON J-04
FIELD	CAMERON HILLS
PROVINCE/COUNTY	NORTH WEST TERRITORIES
COUNTRY/STATE	CANADA

Elevation Kelly Bushing	769.20	metres	First Reading	1445.50	metre
Elevation Drill Floor		metres	Depth Driller	1449.00	metres
Elevation Ground Level	765.20	metres	Depth Logger	1449.50	metres



Weatherford®

COMPENSATED SONIC



SECTOR BOND TOOL

PROVINCE N.W.T
FIELD CAMERON
WELL PARA et al CAMERON J-04
300/L-04-60-10-117-30
COMPANY PARAMOUNT RESOURCES LTD

COMPANY PARAMOUNT RESOURCES LTD

WELL PARA et al CAMERON J-04

300/J-04-60-10-117-30

FIELD CAMERON

PROVINCE N.W.T

LSD Sec. Twp. Rge.
Perm. Datum Ground Level Elev.764.62
Log measured from K.B. , 8.38 m above
Permanent Datum.

Other Services:
PERFORATE

UWI 300/J-04-60-10-117-30
Licence 2034

ELEV.K.B.773.00
G.L.764.62

Date	MARCH 16 2007	Shot Density	No. of Shots	Perf. Interval
Service Order	4313640			From To
Run No.	ONE			
BHT	0°C			
Depth-Driller	1449.5			
Depth-Logger	1435.5			
Btm.Log Inter.	1435.5			
Top Log Inter.	164.0			
Fluid in Hole	WATER	Gun Type		
Fluid Level	164.0	Gun Size		
Bit Size (mm)	0.0	Tubing/Casing Record		
Unit #	14215	Size mm	Wt. Kg/m	From To
Location	HIGH LEVEL	219.10	35.70	SURFACE 436.0
Recorded By	D.BOIRE	139.70	23.07	SURFACE 1450.0
Witnessed By	K.McLEOD			

Other Services

Service	Type	Size	Depth
Bridge Plug			
Produc. Packer			
Cement Retainer			
Cement			
Tubing Bottom	Junk Basket Type		
Seating Nipple	Gauge Ring Size		

All interpretations of log data are opinions based on inferences from electrical or other measurements. We do not guarantee the accuracy or correctness of any interpretation or recommendation and we shall not be liable or responsible for any loss, cost, damages or expenses incurred or sustained by anyone resulting from any interpretation or recommendation made by any of our employees or agents.

Service Order # 4313640

REMARKS Rig: CONCORD #19

CORRELATED TO WEATHERFORD PHOTO DENSITY DUAL SPACED NEUTRON LOG

DATED FEBRUARY 15 2007

TICKET # 10155023

EQUIPMENT DATA

Run No.	Tool Type	Tool No.	Other
ONE	SBTAA	166	SECTOR
	CTBAA	183	CCL - TELEMETRY
	GRBAA	183	GAMMA RAY

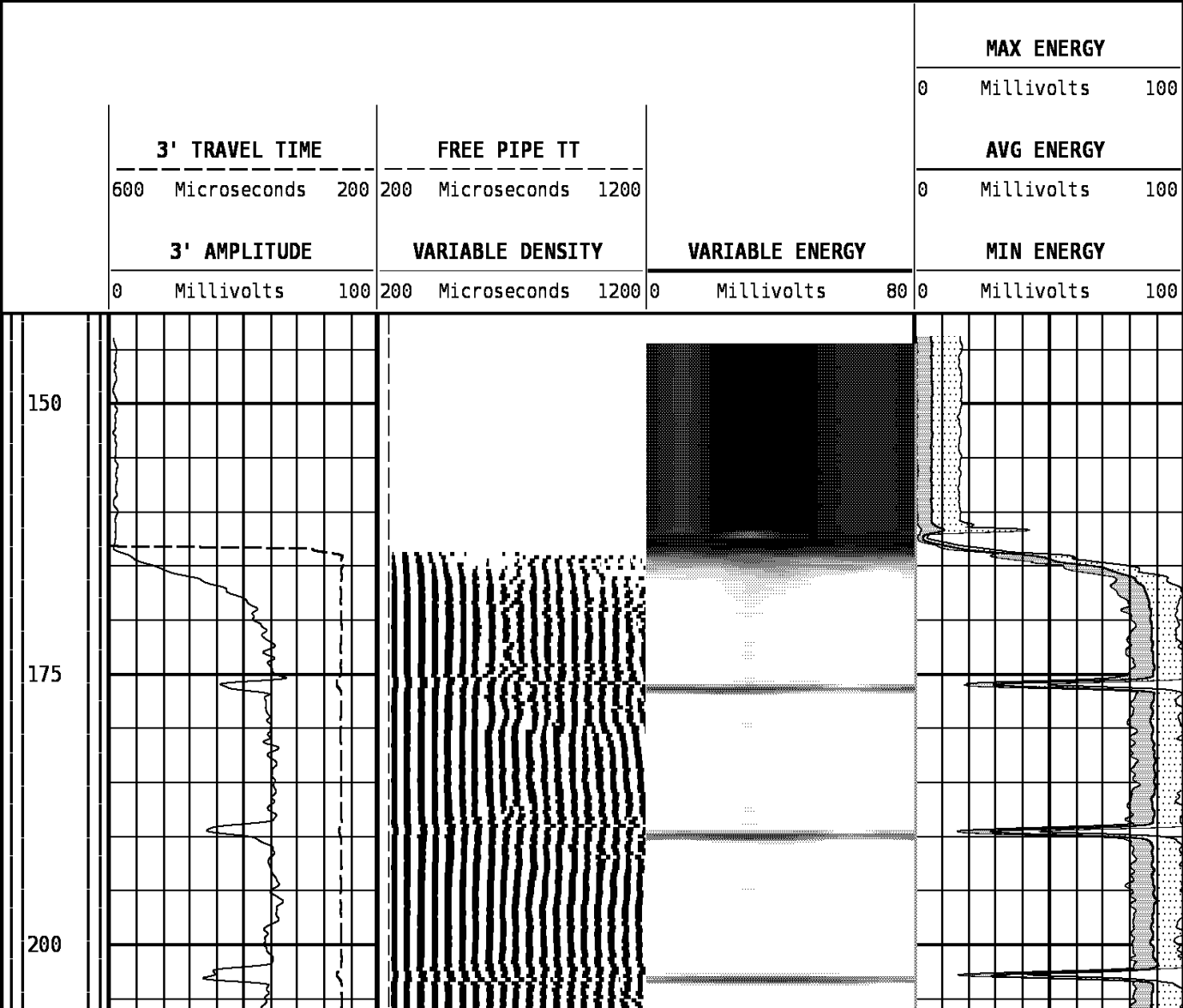
DEPTH SCALE: 1:600

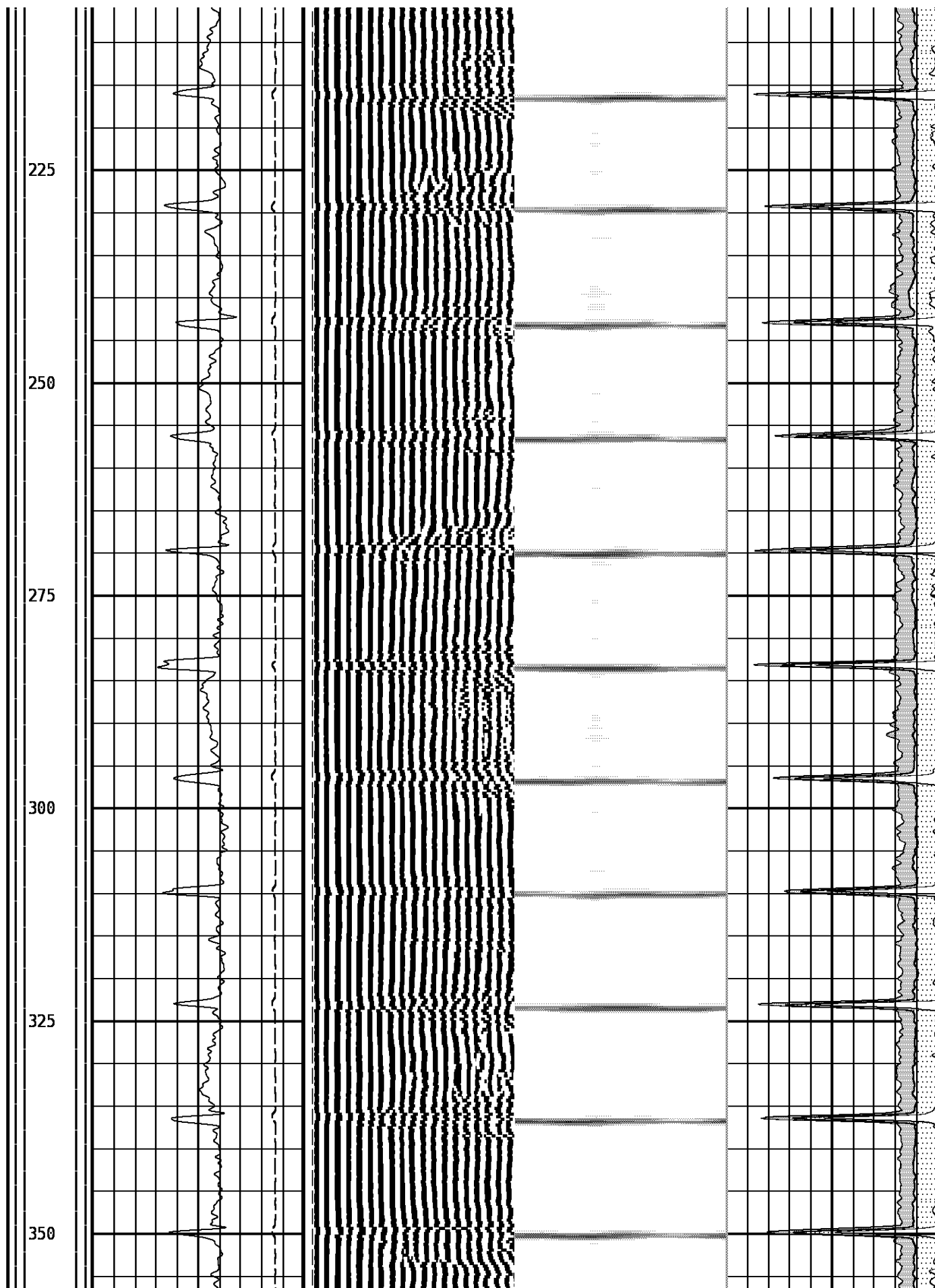
VERSION: 7021587 R

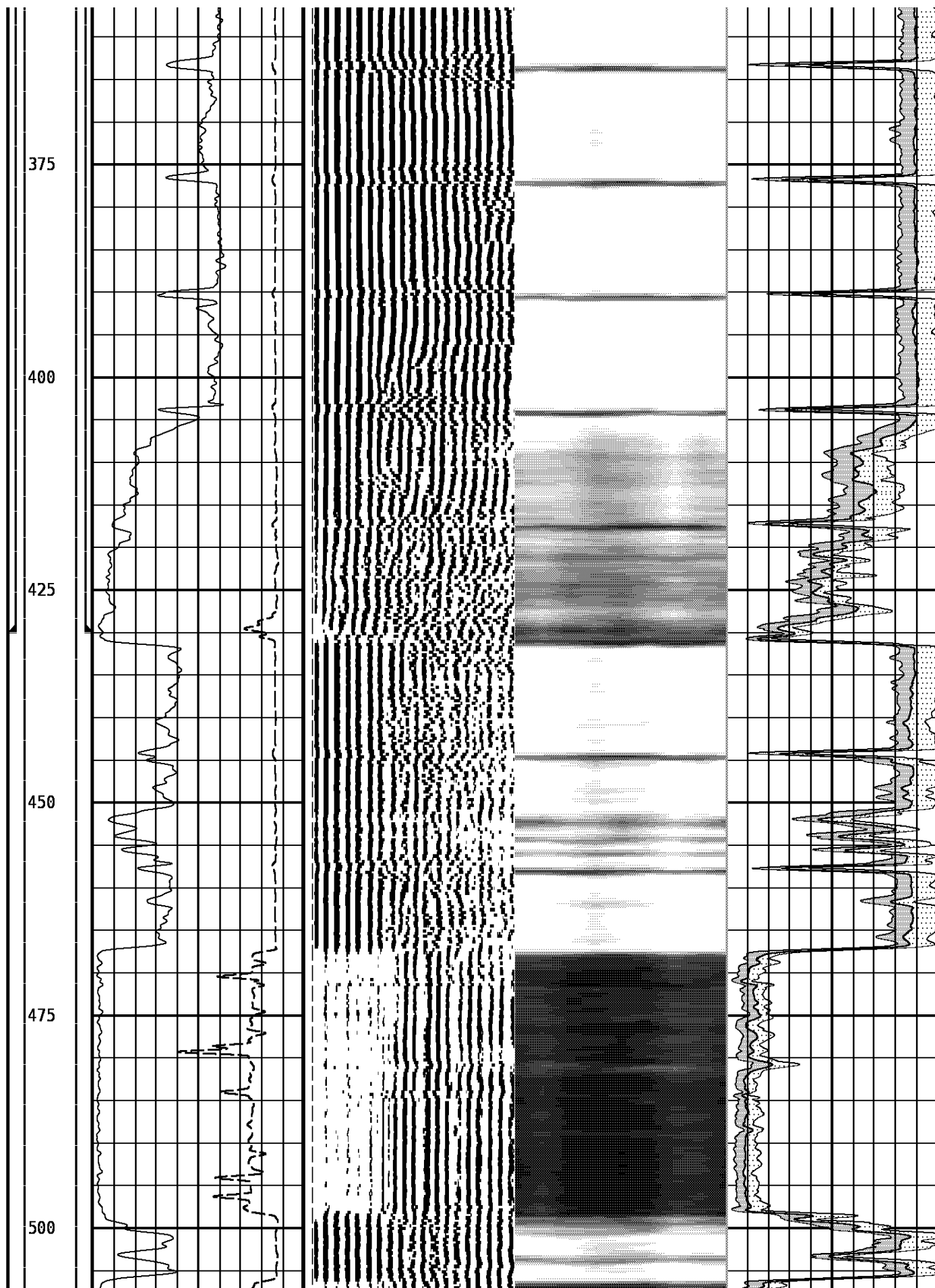
MERGED PASS

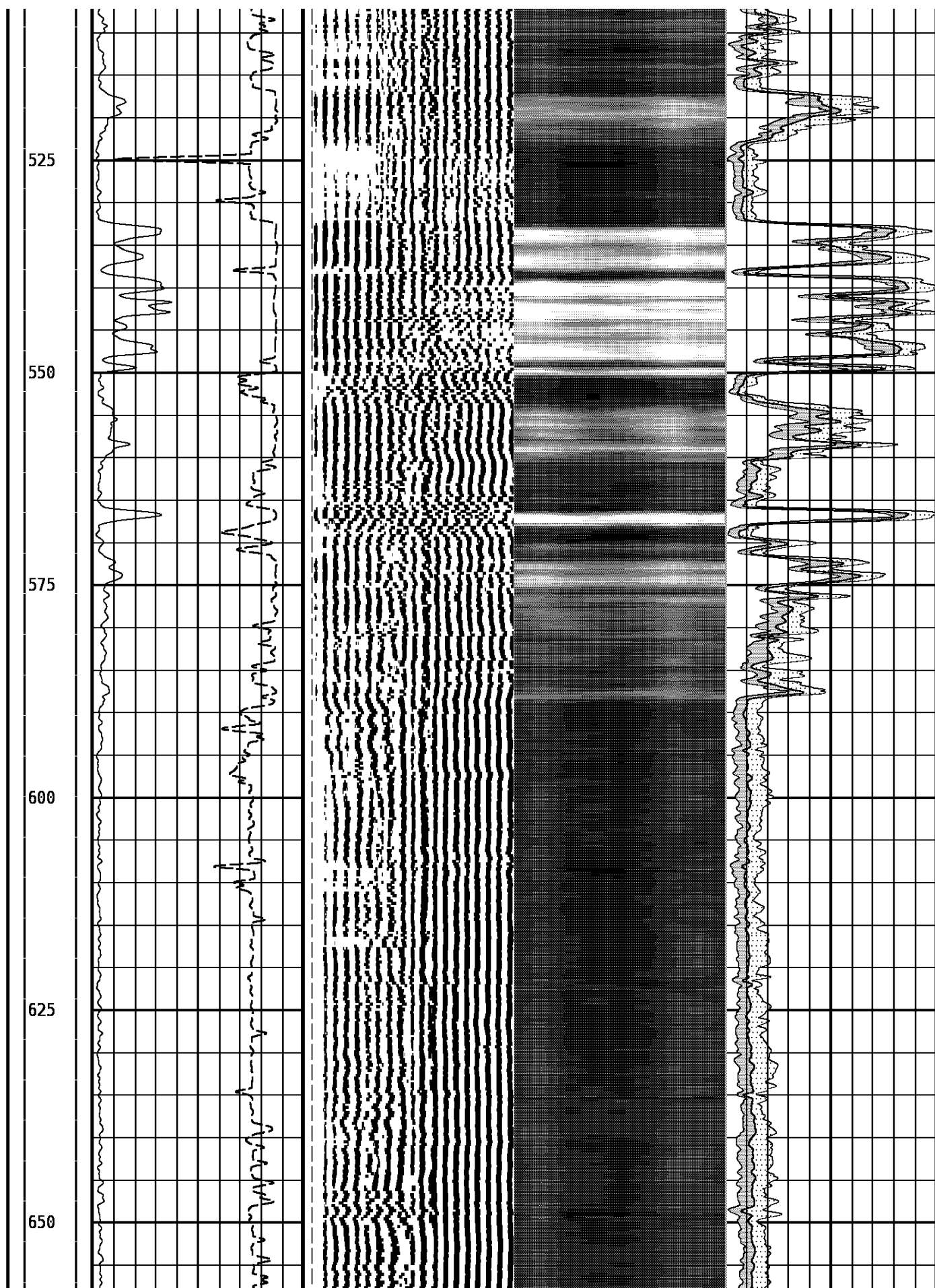
4313640 HSDA600

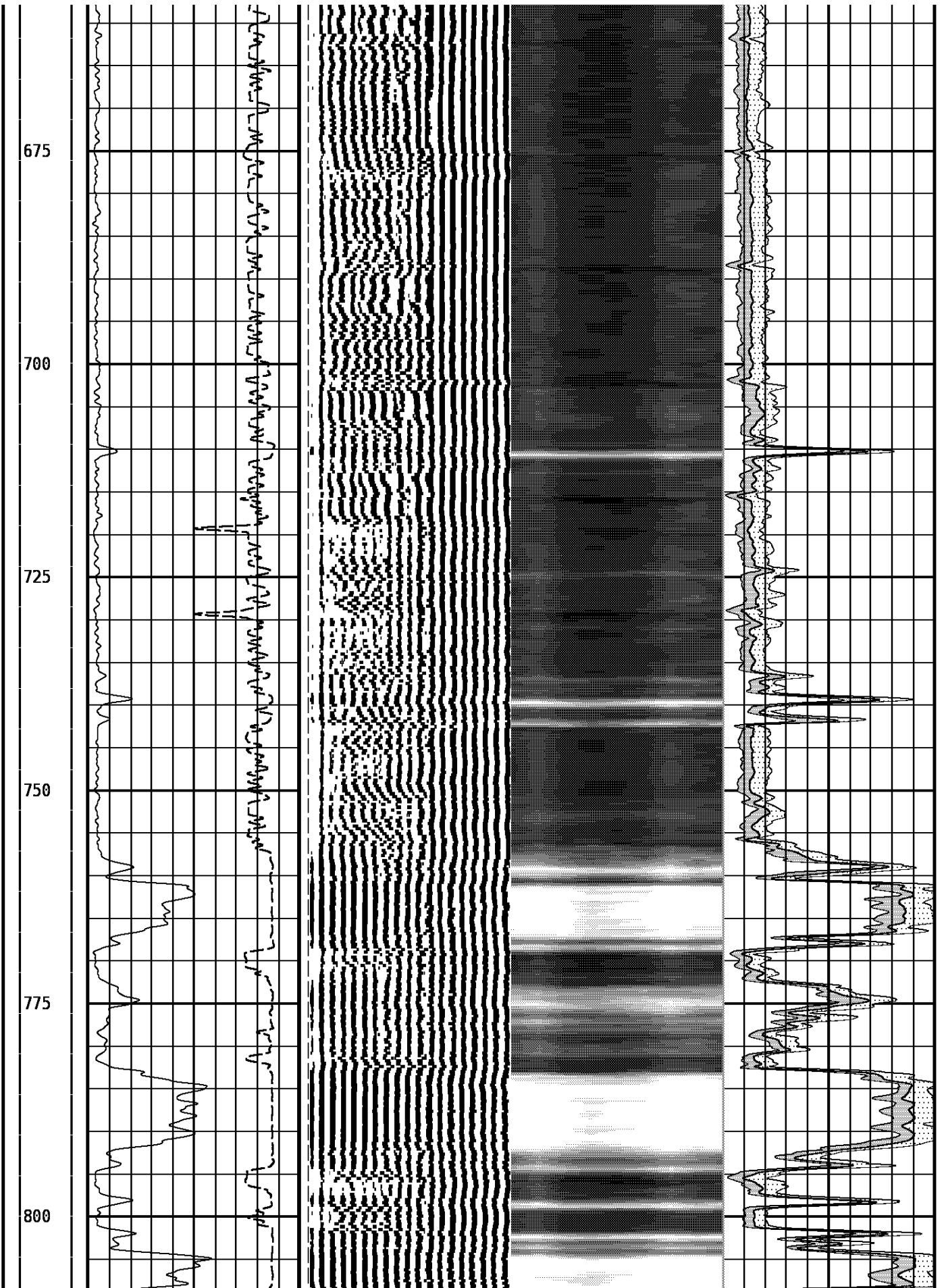
FINISH DEPTH: 1438.5 Meters DIRECTION: UP DATE: 03/16/2007 TIME: 14:38 MODE: TRACE PLAYBACK

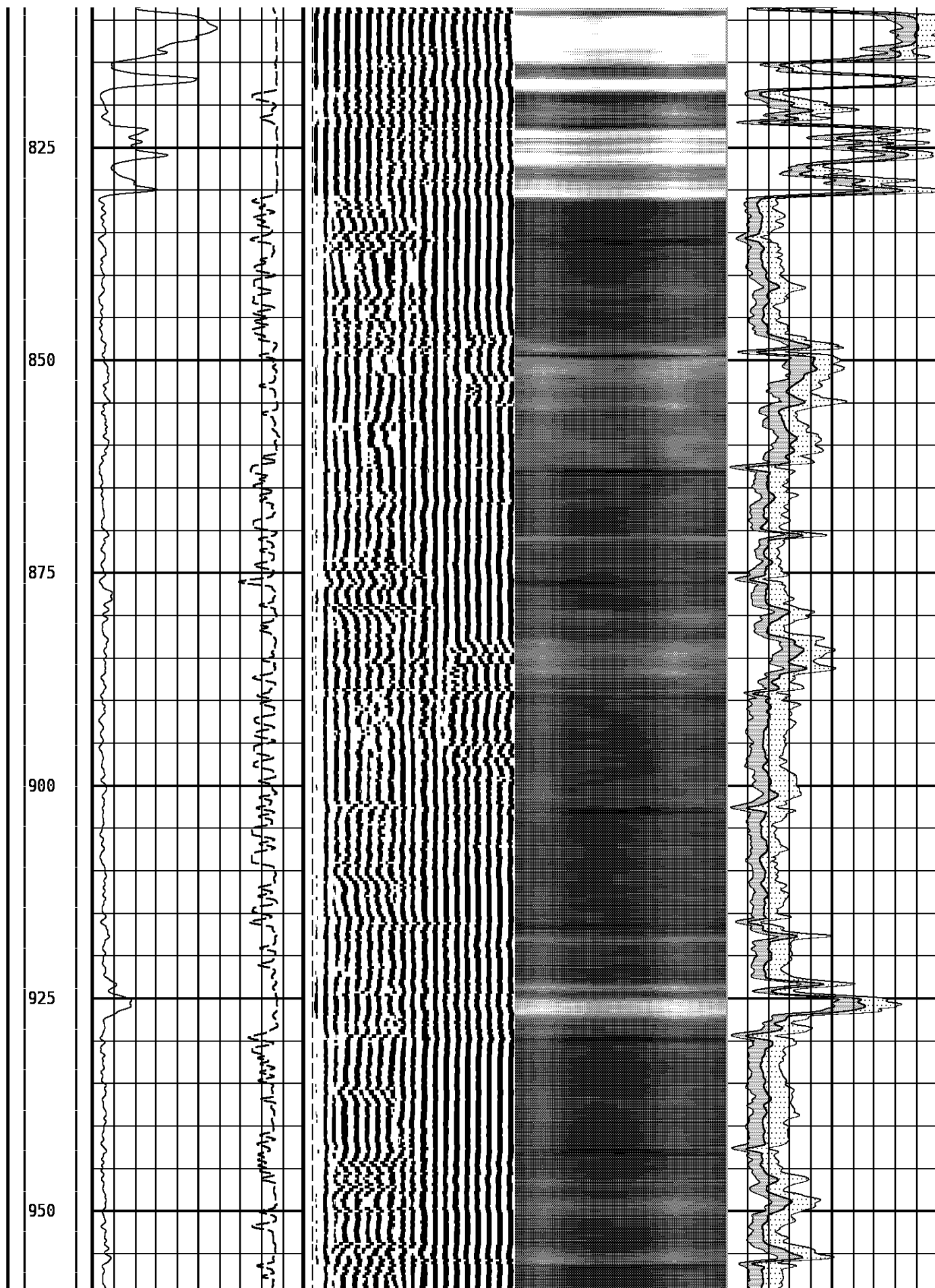


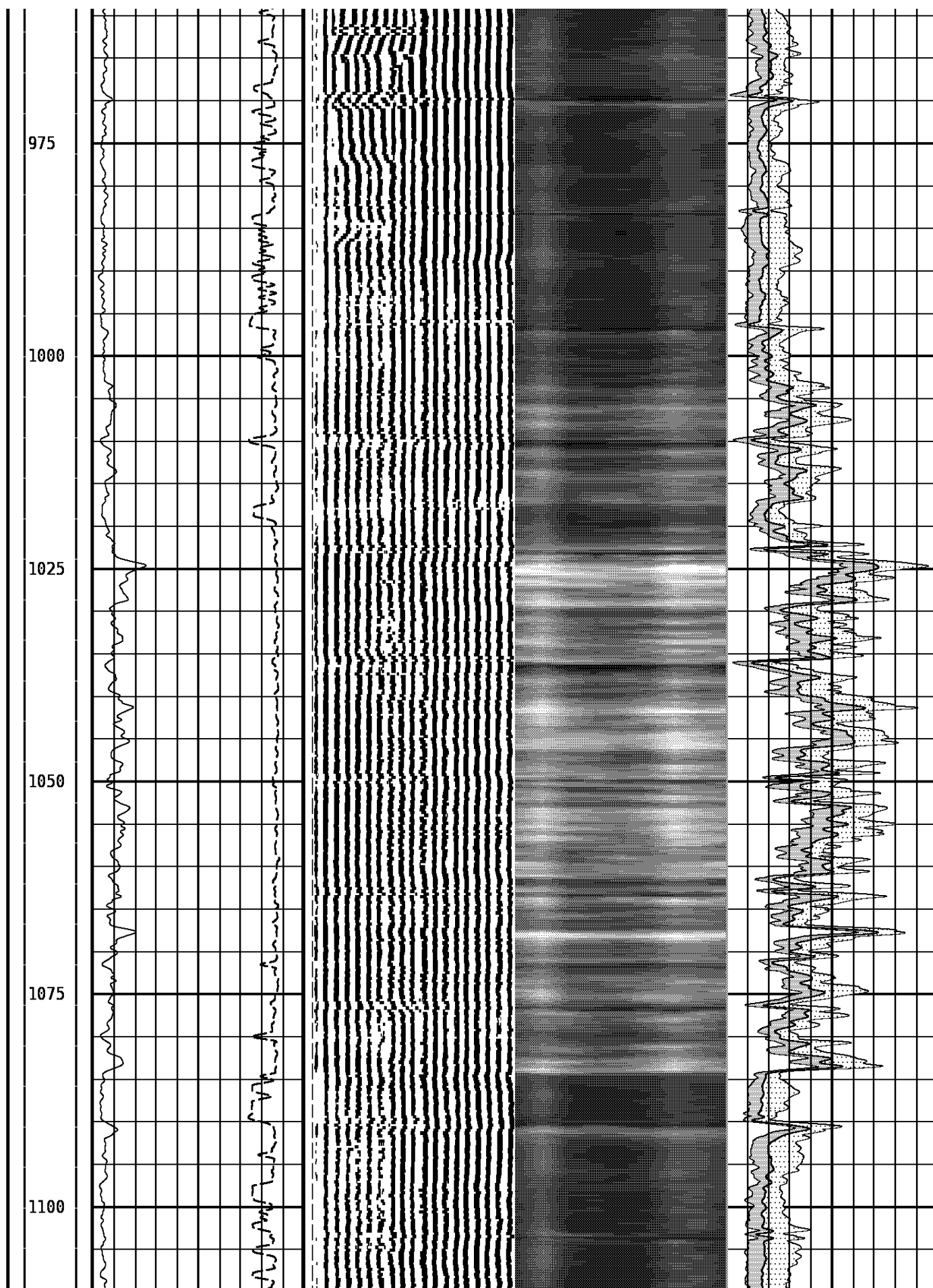


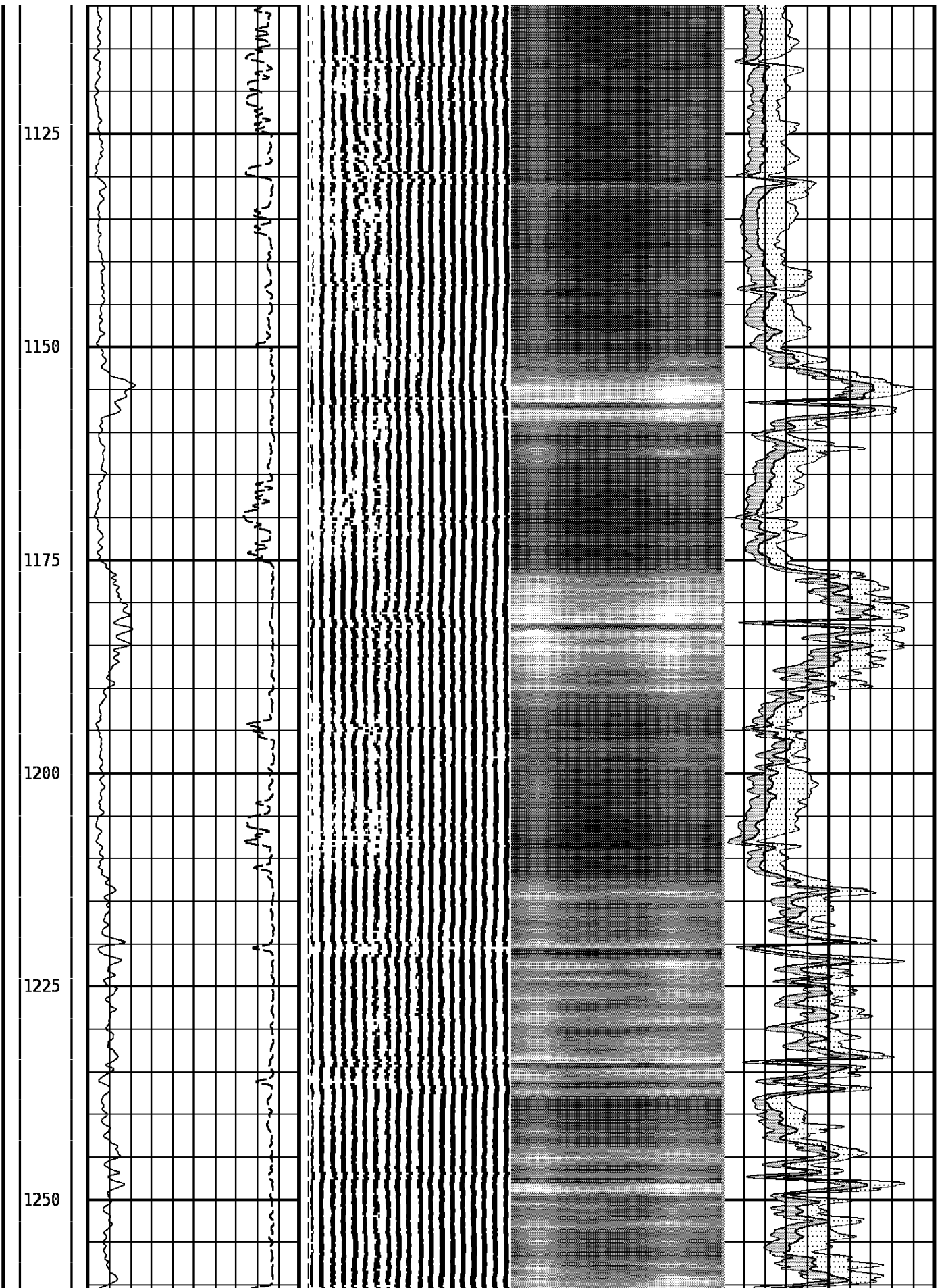


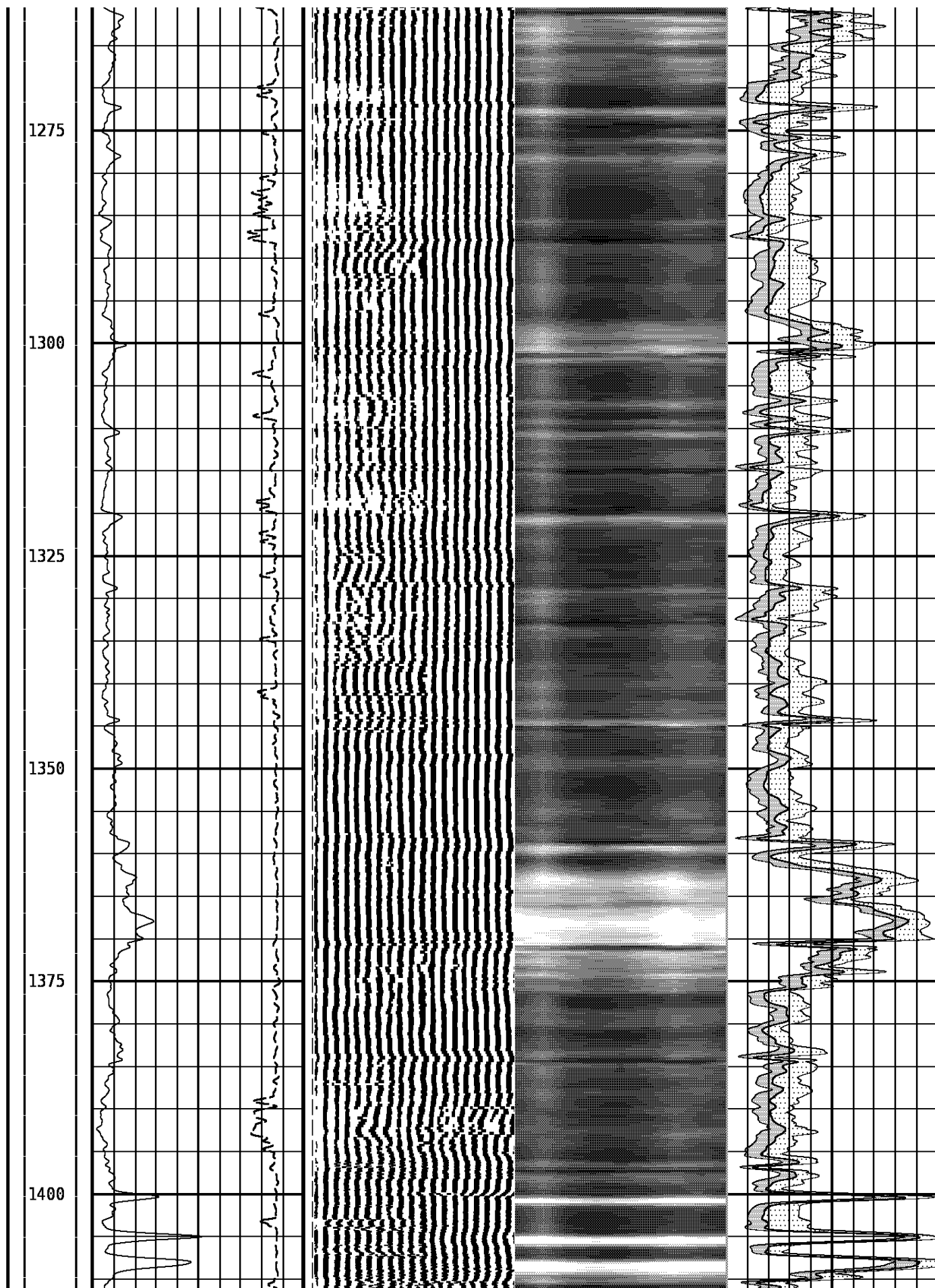


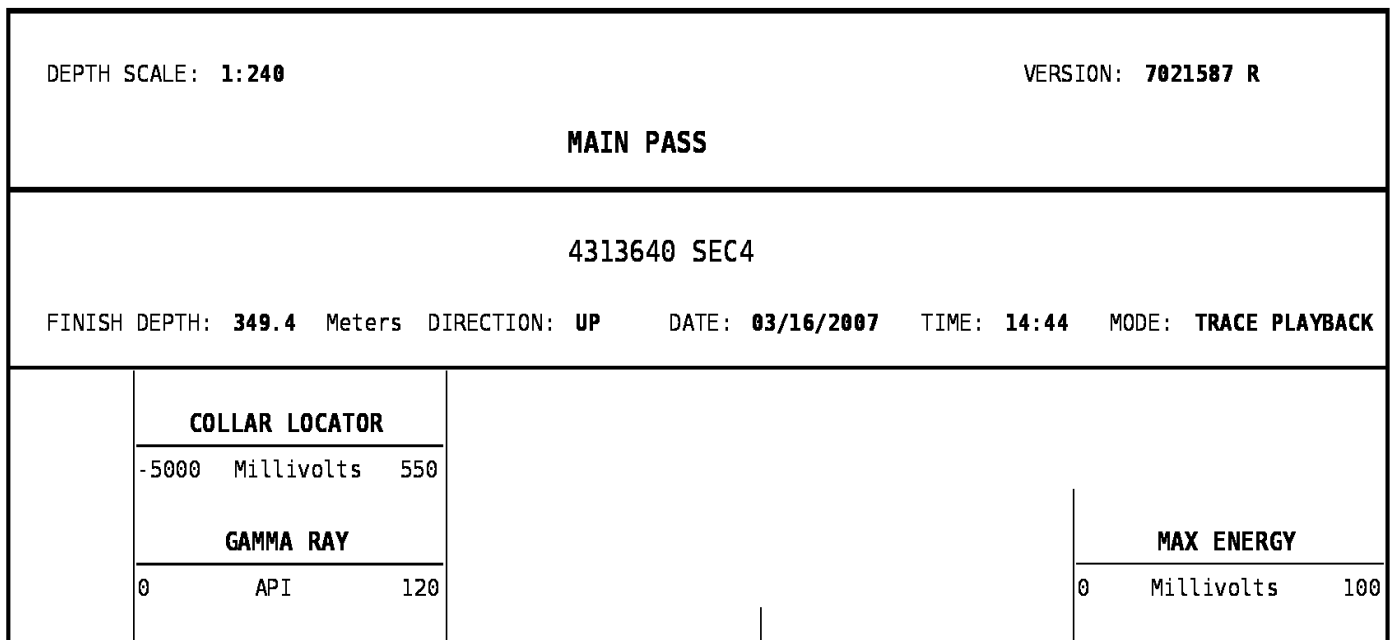
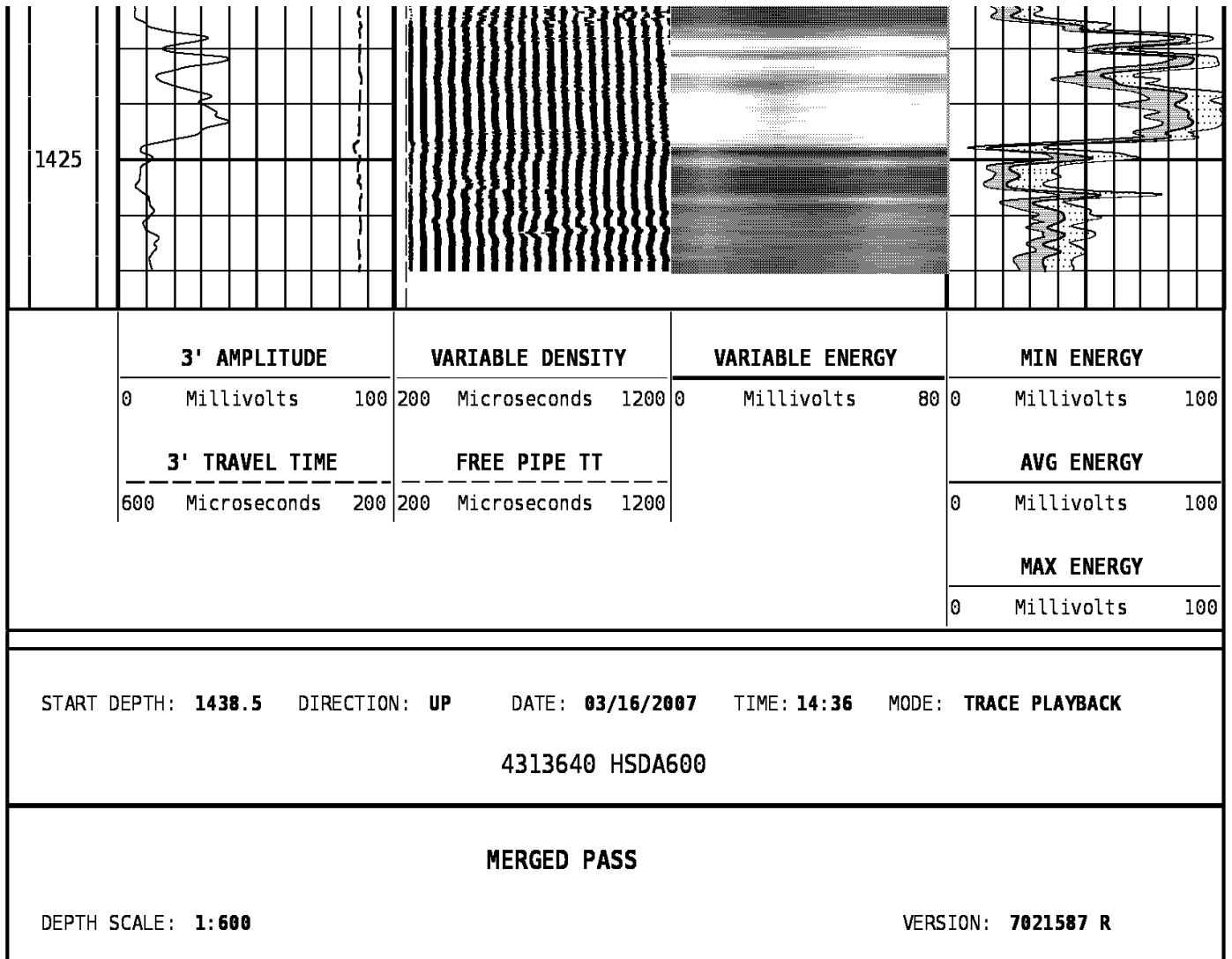


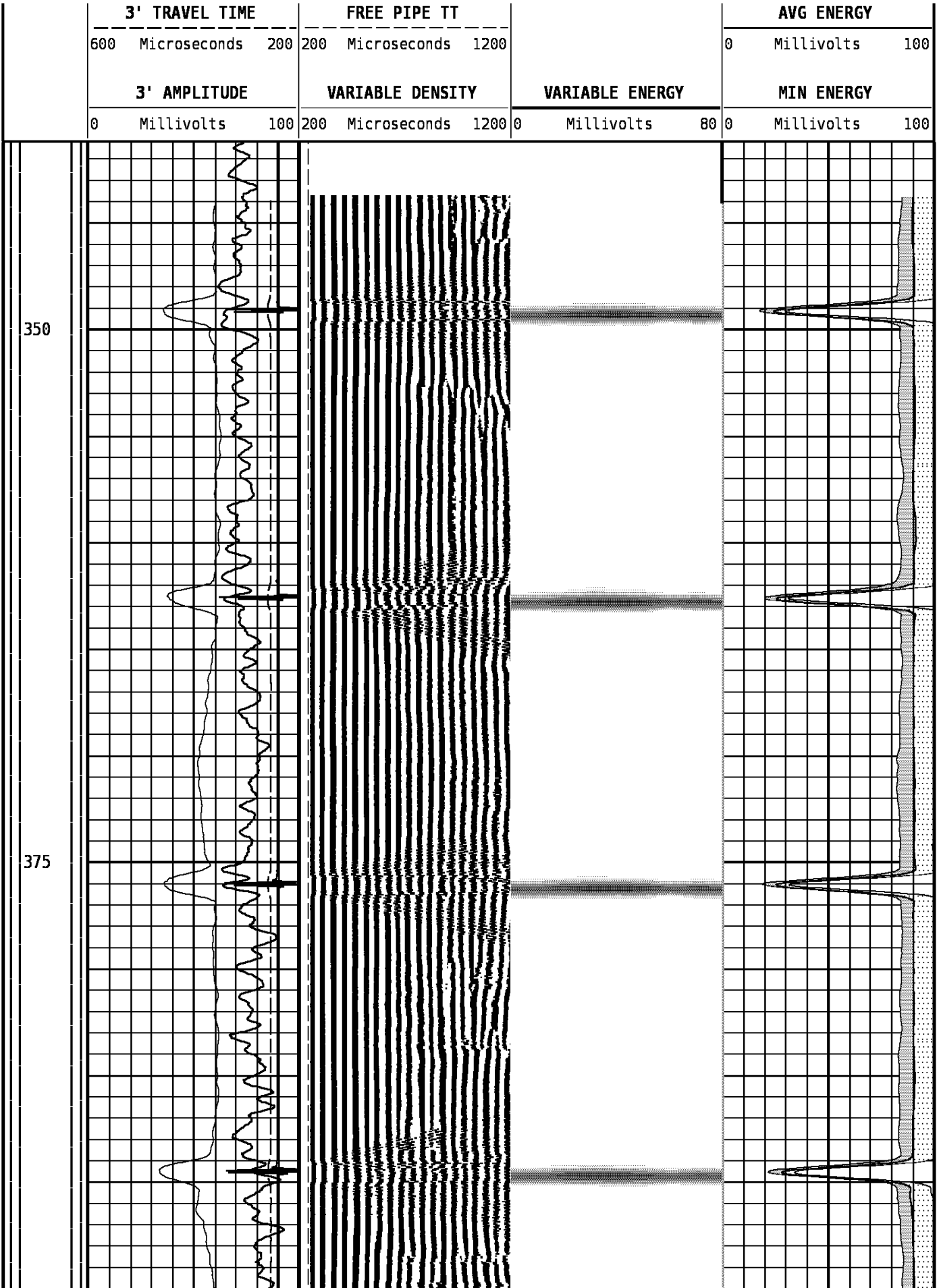








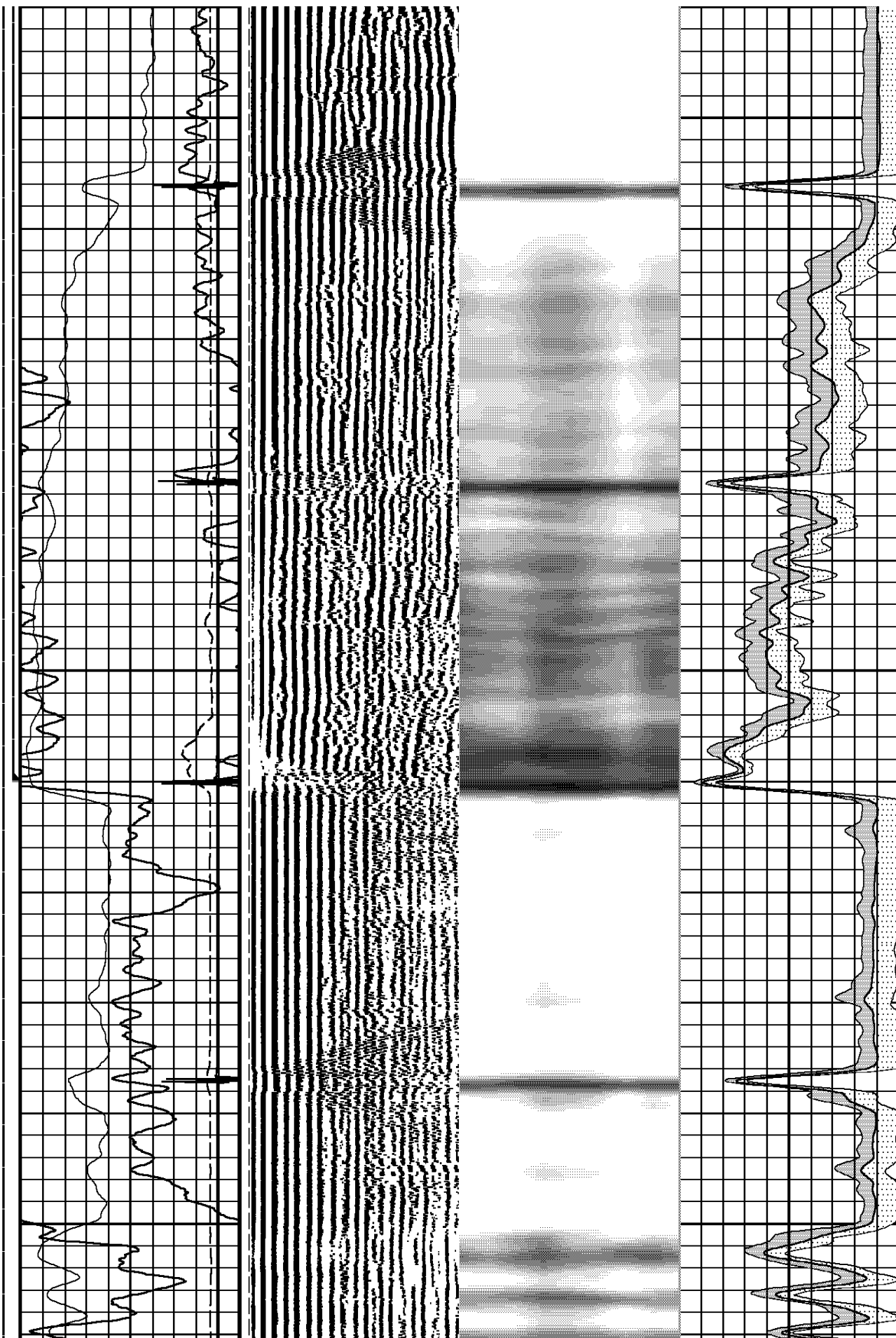




400

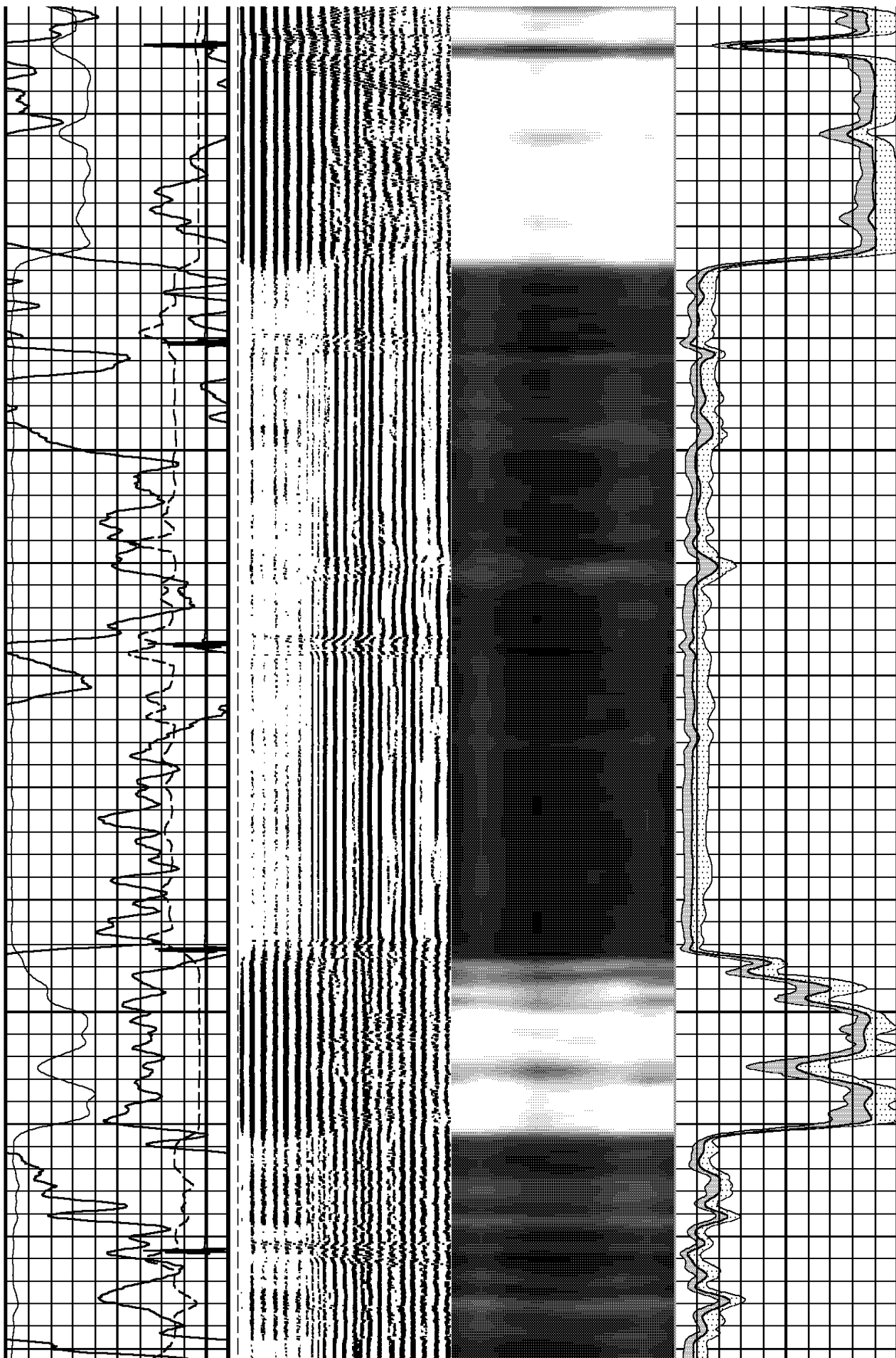
425

450

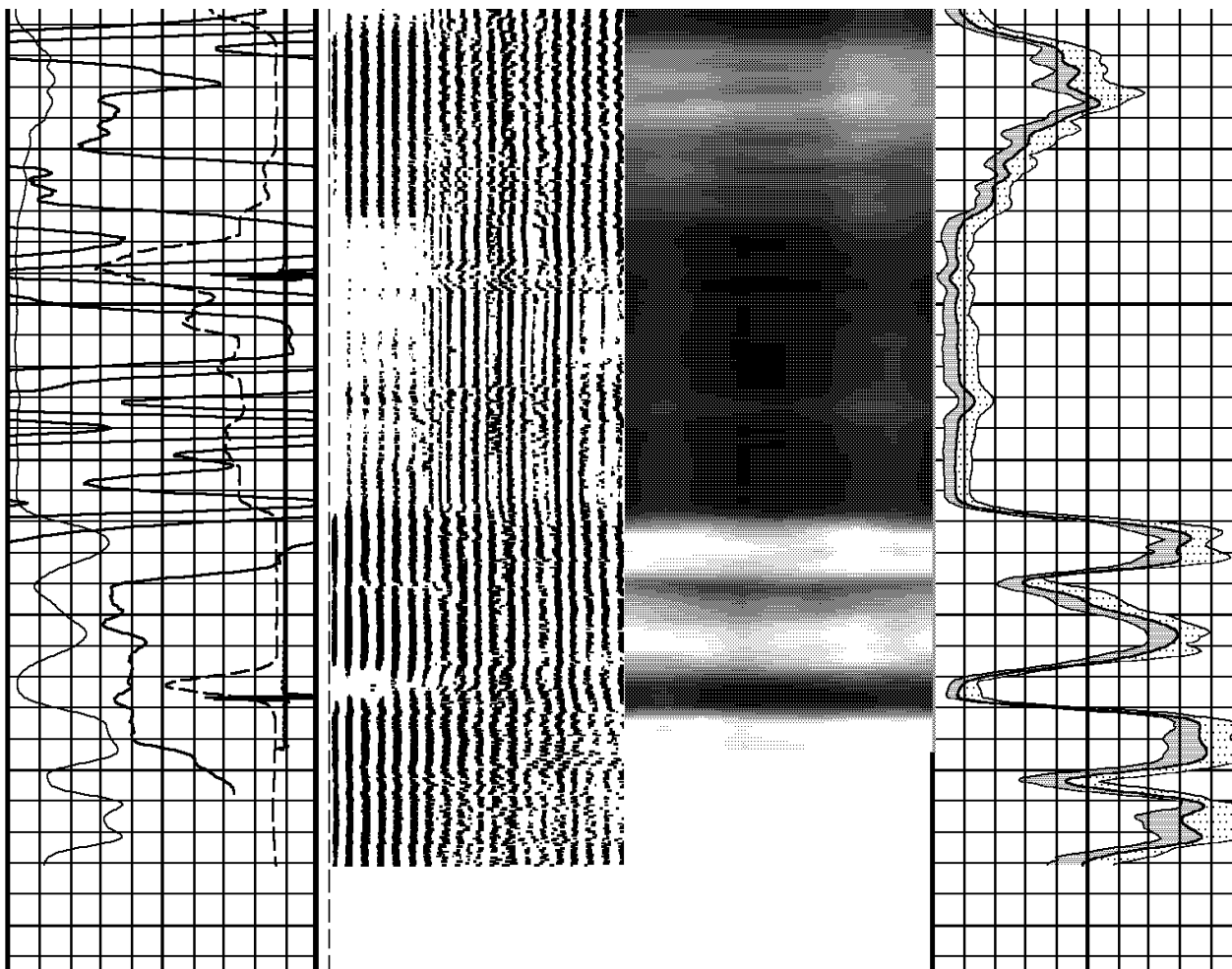


475

500



525



3' AMPLITUDE			VARIABLE DENSITY			VARIABLE ENERGY			MIN ENERGY		
0	Millivolts	100	200	Microseconds	1200	0	Millivolts	80	0	Millivolts	100
3' TRAVEL TIME			FREE PIPE TT						AVG ENERGY		
600	Microseconds	200	200	Microseconds	1200				0	Millivolts	100
GAMMA RAY									MAX ENERGY		
0	API	120							0	Millivolts	100
COLLAR LOCATOR											
-5000	Millivolts	550									

START DEPTH: 550.0 DIRECTION: UP DATE: 03/16/2007 TIME: 14:24 MODE: TRACE PLAYBACK

4313640 SEC4

MAIN PASS

DEPTH SCALE: 1:240

VERSION: 7021587 R

DEPTH SCALE: 1:240

VERSION: 7021587 R

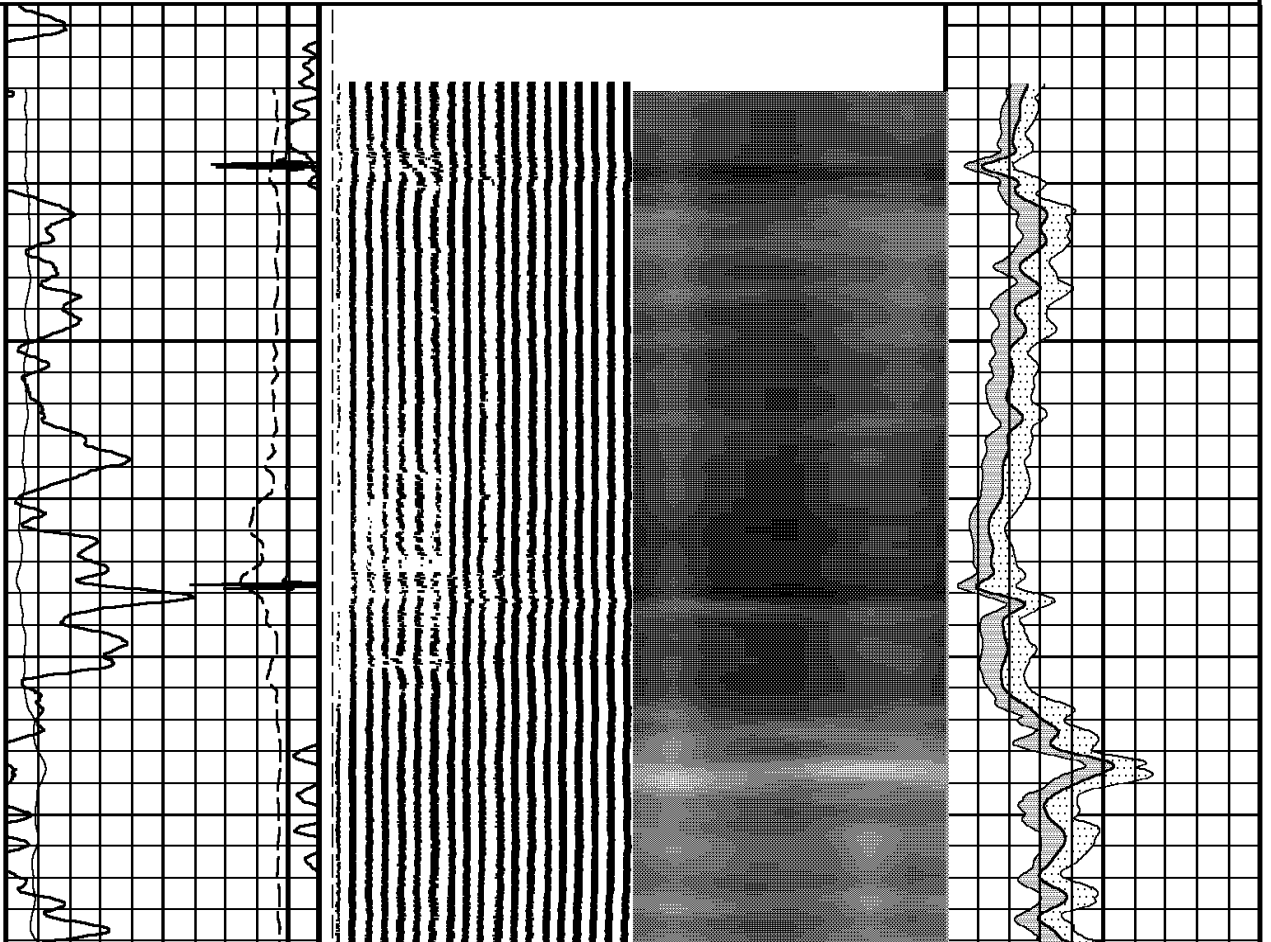
MAIN PASS

4313640 SEC2

FINISH DEPTH: 1197.5 Meters DIRECTION: UP DATE: 03/16/2007 TIME: 14:18 MODE: TRACE PLAYBACK

COLLAR LOCATOR											
-5000	Millivolts	550									
GAMMA RAY									MAX ENERGY		
0	API	120							0	Millivolts	100
3' TRAVEL TIME			FREE PIPE TT						AVG ENERGY		
600	Microseconds	200	200	Microseconds	1200				0	Millivolts	100
3' AMPLITUDE			VARIABLE DENSITY			VARIABLE ENERGY			MIN ENERGY		
0	Millivolts	100	200	Microseconds	1200	0	Millivolts	80	0	Millivolts	100

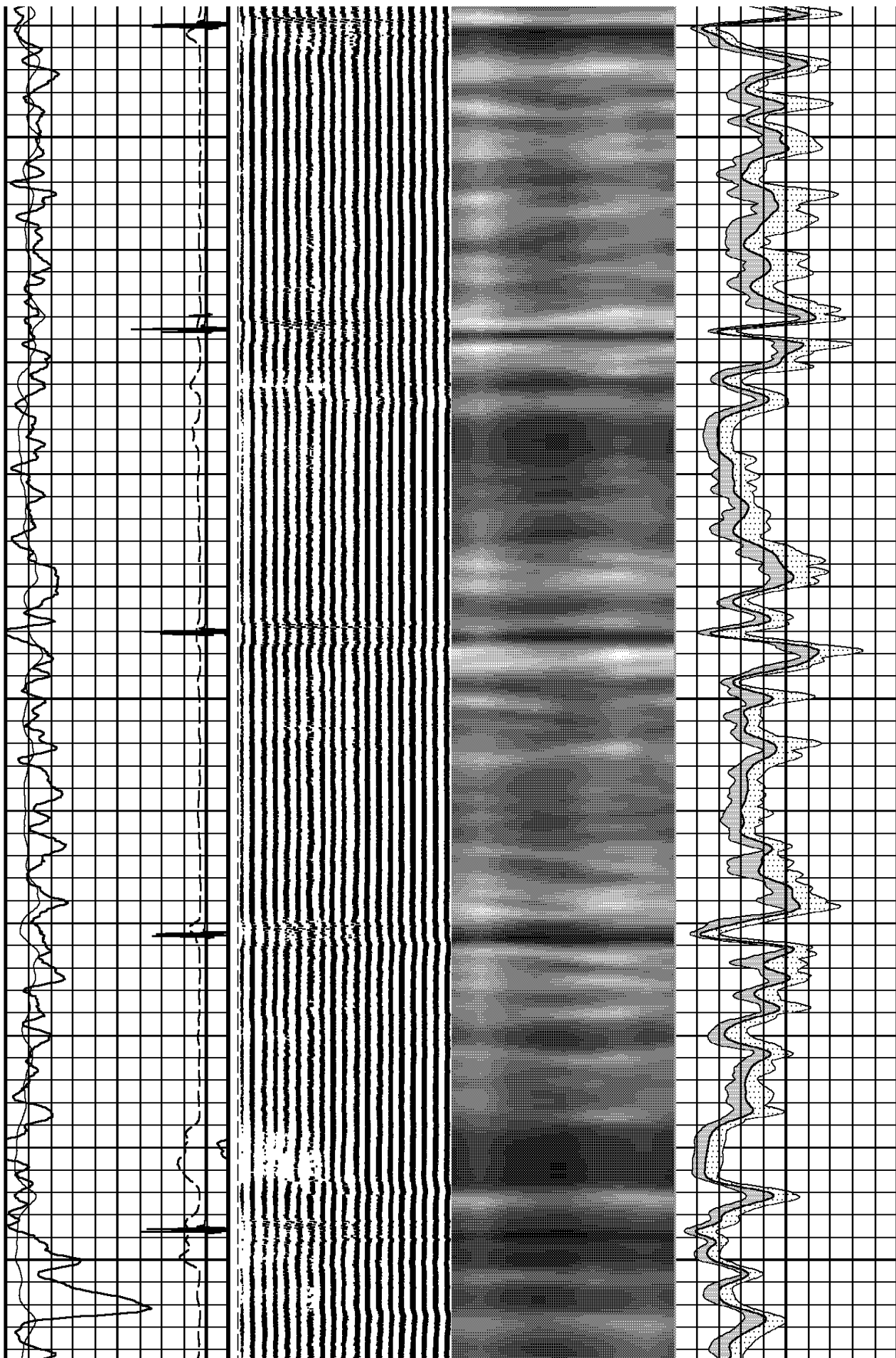
1200



1225

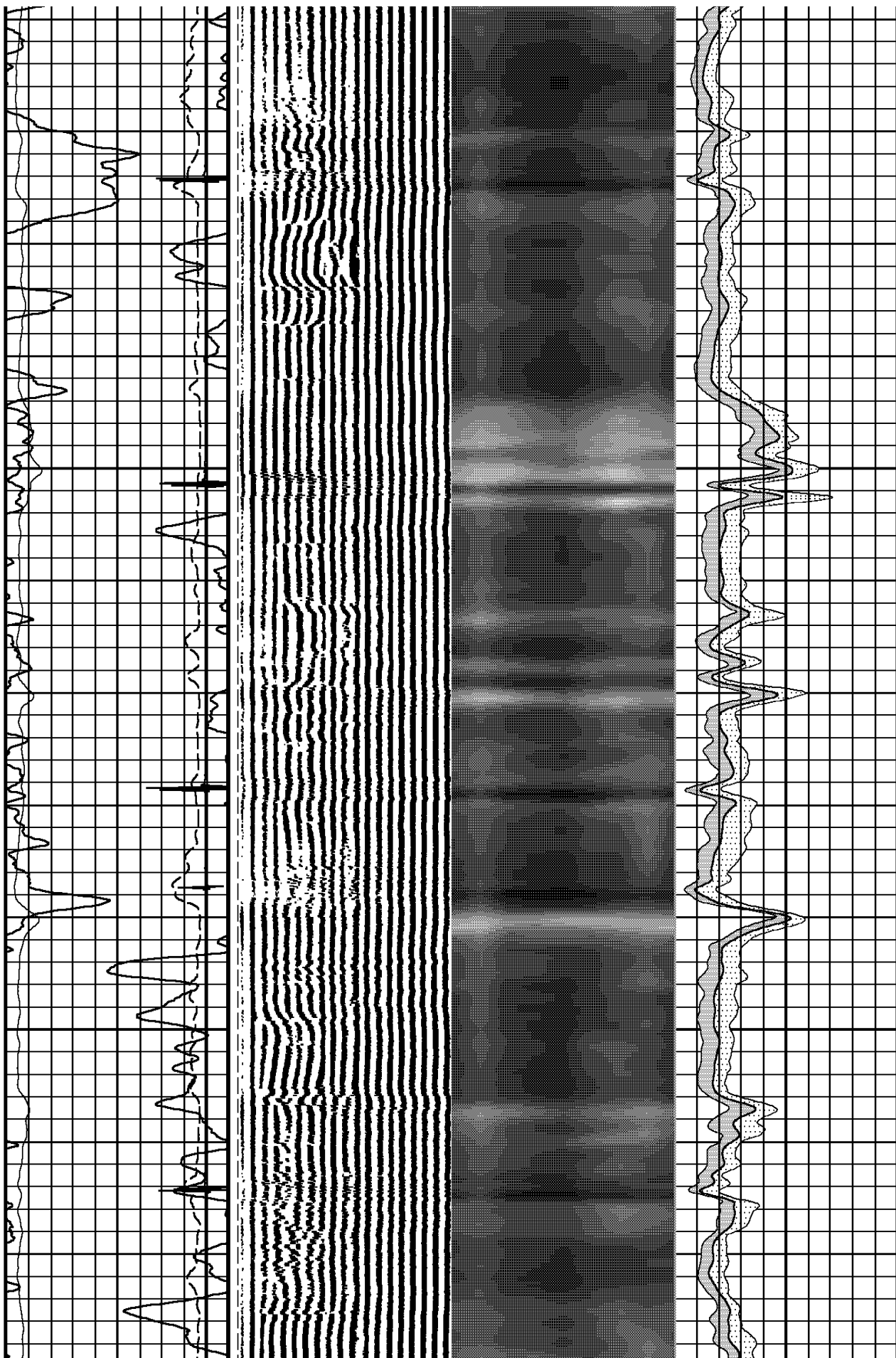
1250

1275



1300

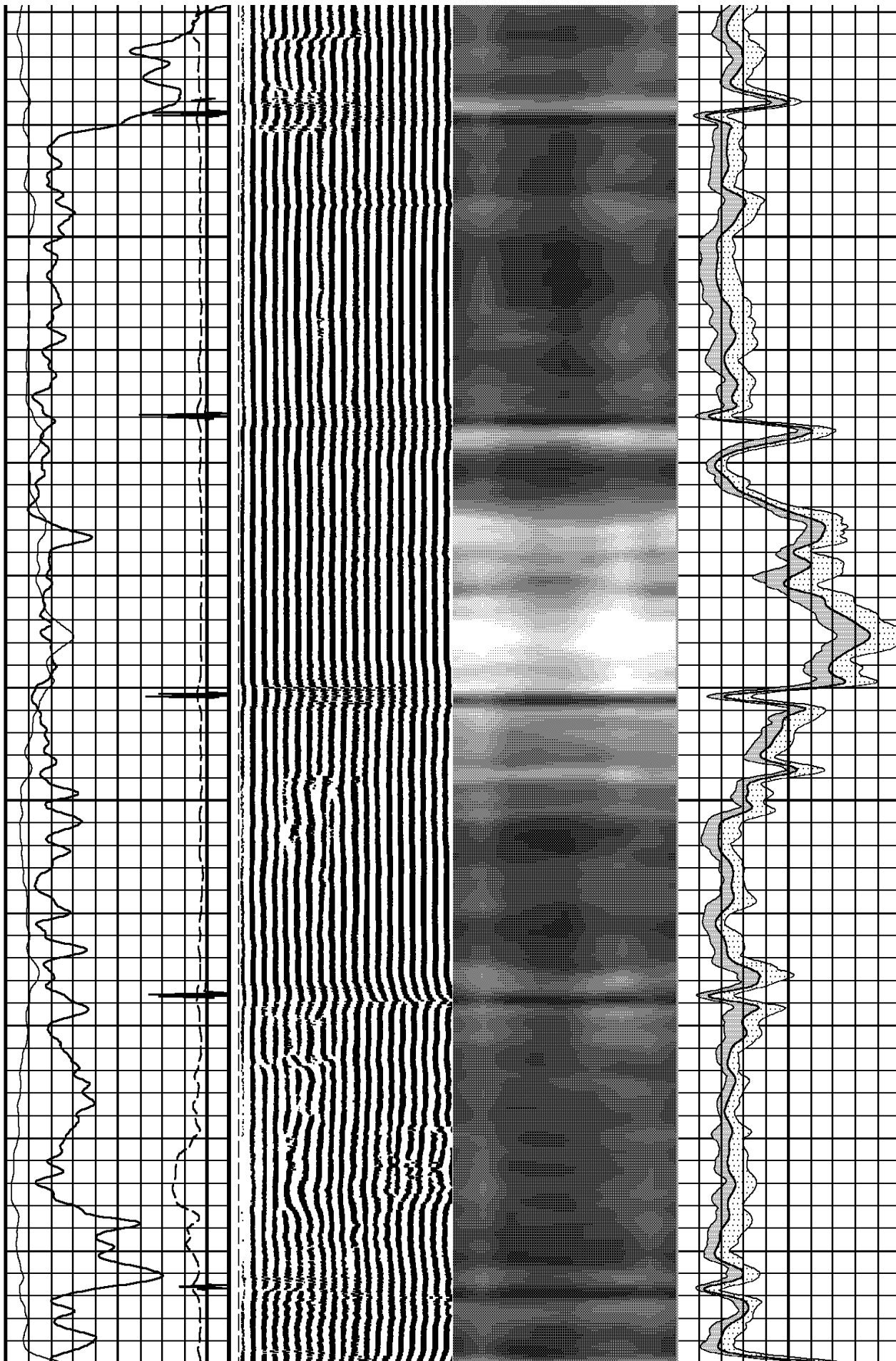
1325



1350

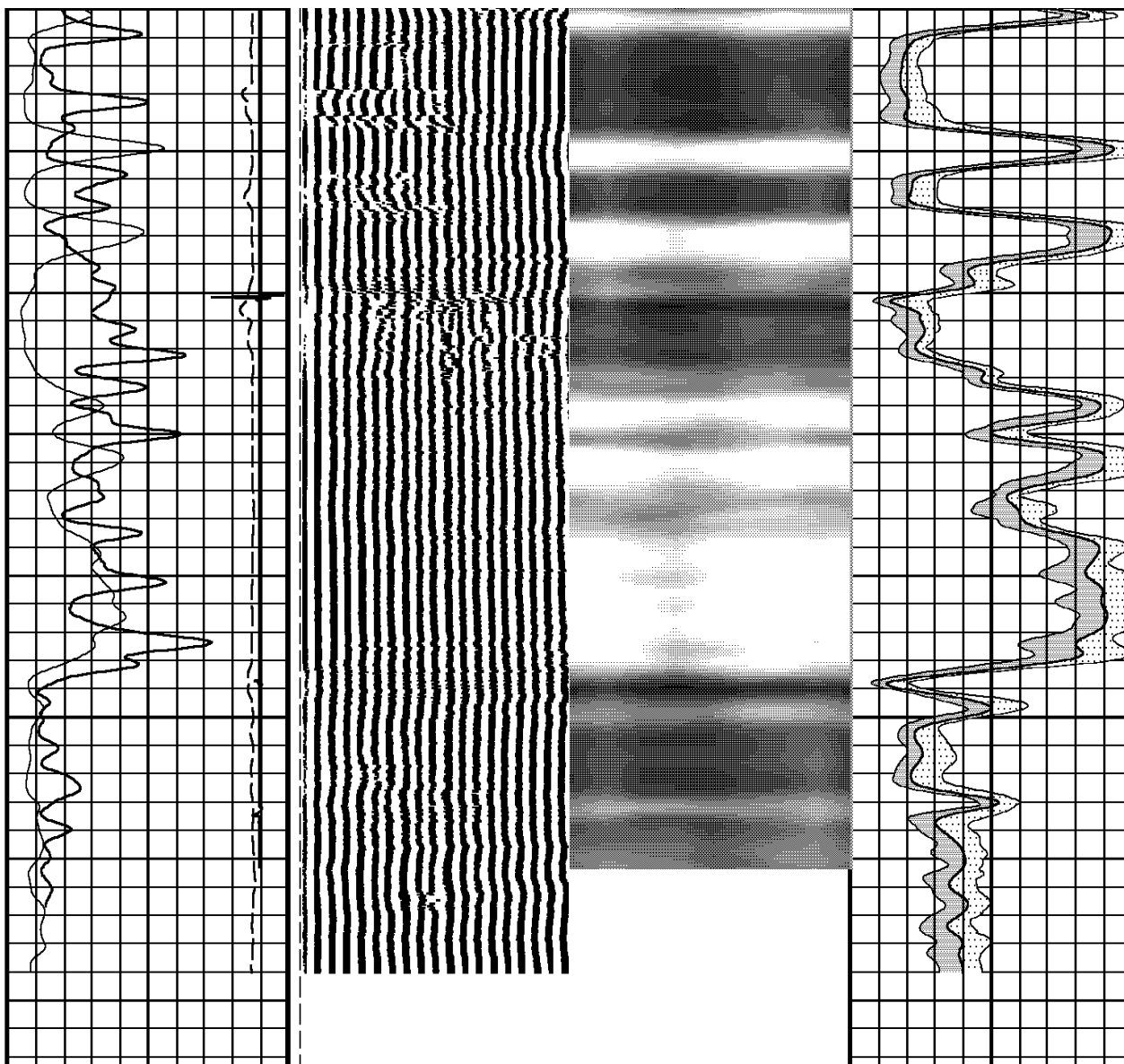
1375

1400



1400

1425

**3' AMPLITUDE**

0 Millivolts 100

VARIABLE DENSITY

200 Microseconds 1200

VARIABLE ENERGY

0 Millivolts 80

MIN ENERGY

0 Millivolts 100

3' TRAVEL TIME

600 Microseconds 200

FREE PIPE TT

200 Microseconds 1200

AVG ENERGY

0 Millivolts 100

GAMMA RAY

0 API 120

MAX ENERGY

0 Millivolts 100

COLLAR LOCATOR

-5000 Millivolts 550

START DEPTH: 1441.0 DIRECTION: UP DATE: 03/16/2007 TIME: 13:54 MODE: TRACE PLAYBACK

4313640 SEC2

MAIN PASS

DEPTH SCALE: 1:240

VERSION: 7021587 R

DEPTH SCALE: 1:240

VERSION: 7021587 R

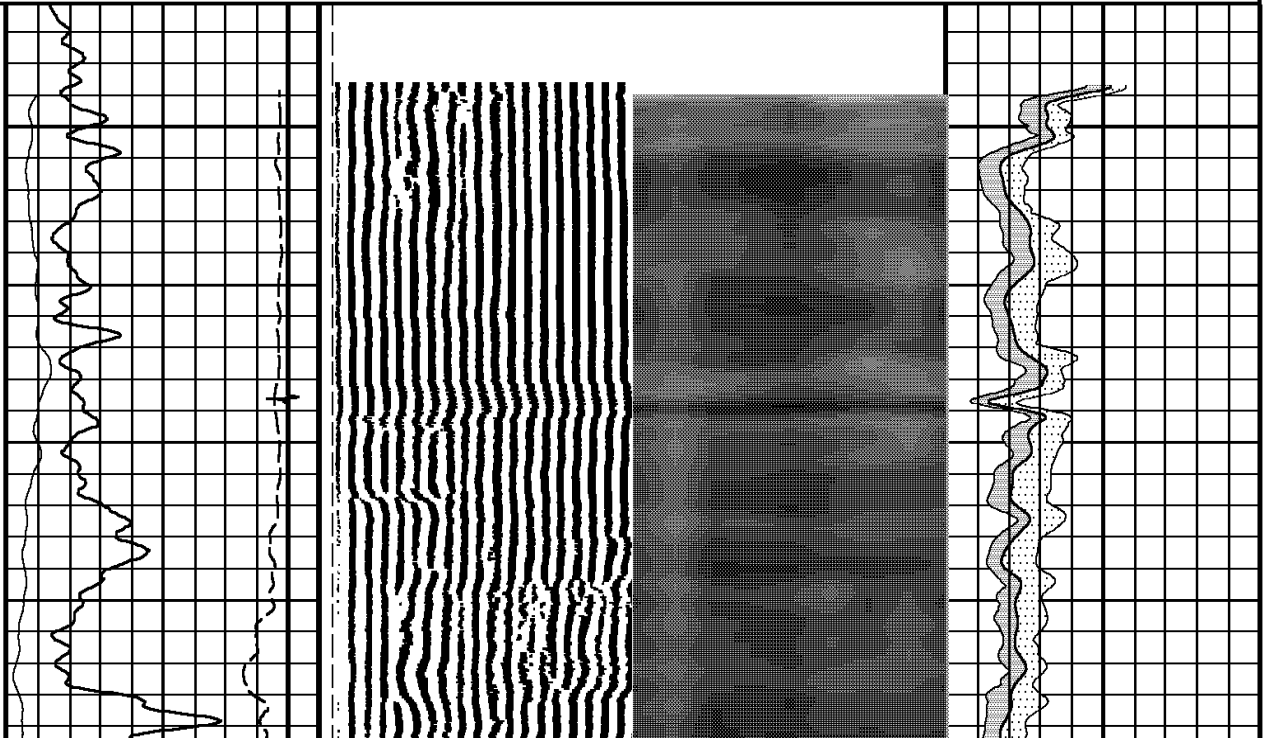
MAIN PASS

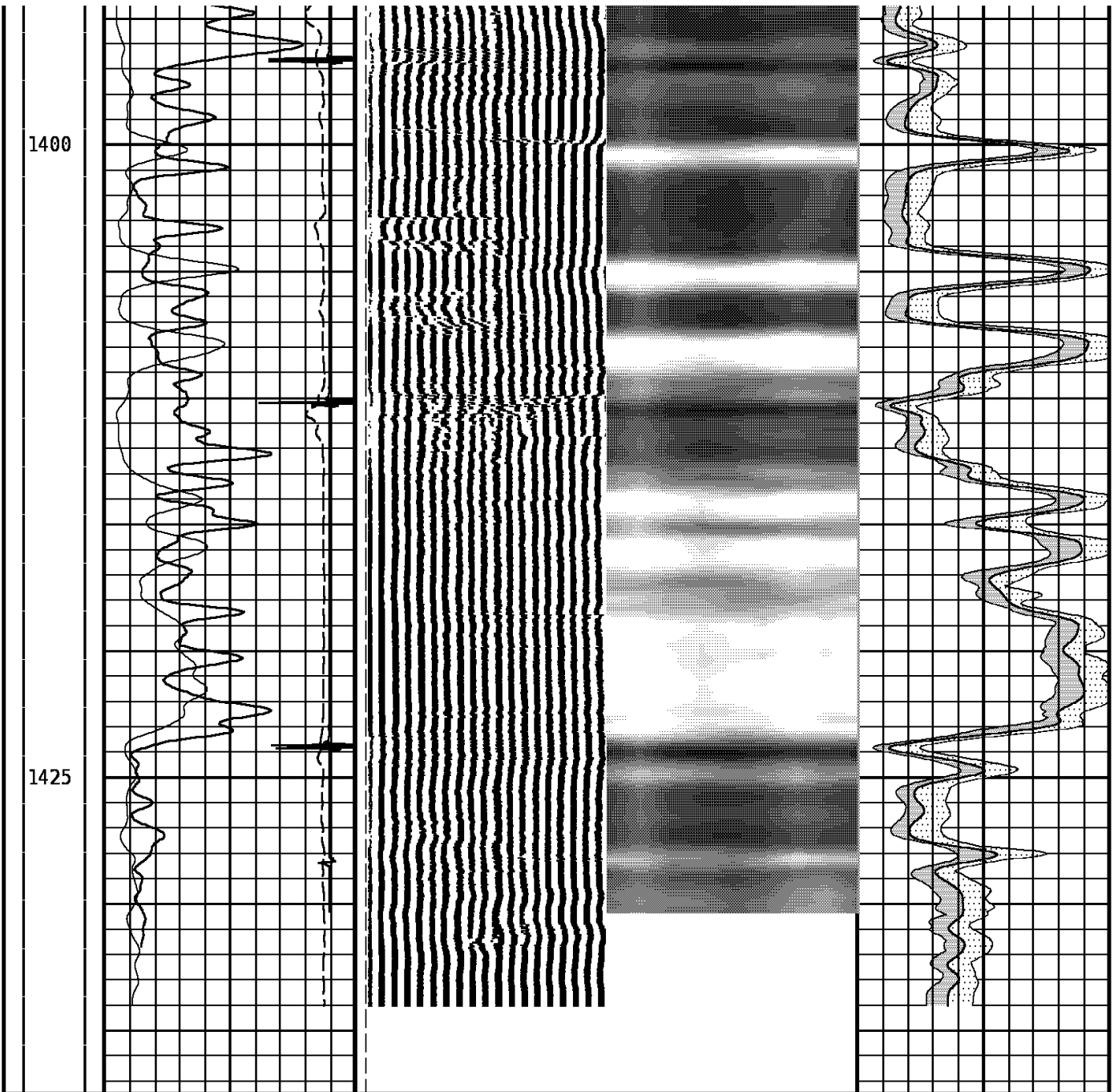
4313640 SEC1A

FINISH DEPTH: 1437.5 Meters DIRECTION: UP DATE: 03/16/2007 TIME: 14:30 MODE: TRACE PLAYBACK

COLLAR LOCATOR								
-5000	Millivolts	550						
GAMMA RAY						MAX ENERGY		
0	API	120				0	Millivolts	100
3' TRAVEL TIME			FREE PIPE TT			AVG ENERGY		
600	Microseconds	200	200	Microseconds	1200	0	Millivolts	100
3' AMPLITUDE			VARIABLE DENSITY			VARIABLE ENERGY		
0	Millivolts	100	200	Microseconds	1200	0	Millivolts	80
						0	Millivolts	100

1375





3' AMPLITUDE			VARIABLE DENSITY			VARIABLE ENERGY			MIN ENERGY		
0	Millivolts	100	200	Microseconds	1200	0	Millivolts	80	0	Millivolts	100
3' TRAVEL TIME			FREE PIPE TT						AVG ENERGY		
600	Microseconds	200	200	Microseconds	1200				0	Millivolts	100
GAMMA RAY									MAX ENERGY		
0	API	120							0	Millivolts	100
COLLAR LOCATOR											
-5000	Millivolts	550									

START DEPTH: **1437.5** DIRECTION: **UP** DATE: **03/16/2007** TIME: **14:30** MODE: **TRACE PLAYBACK**

4313640 SEC1A

MAIN PASS

DEPTH SCALE: **1:240**

VERSION: **7021587 R**

01/01/88 12:00 0.0 M Ver Job

Gamma Ray Before Survey Calibration

Tool Type: GRB-AA Serial No: 183
Calibrator No:

Background Calibrator Standard Units

24.5 195.0 120.0 API

Delta Counts Per Sec: 170.5 CPS/API = 1.421

08/03/05 02:01 18.0 M Ver 50223795 Job 4246042

Sector Bond Before Calibration

Tool Type SBT-AA Serial No sbt131

Sensor	Description	Standard	Measured
AMP 3FT	ZERO	0.00	2.50
	PLUS	72.00	1255.60
AMP 5FT	ZERO	0.00	11.23
	PLUS	60.00	1350.90
1 SECTOR AMP	ZERO	0.00	15.40
	PLUS	90.00	1404.40
2 SECTOR AMP	ZERO	0.00	13.20
	PLUS	90.00	1508.60

3 SECTOR AMP	ZERO	0.00	10.30
	PLUS	90.00	1475.80
4 SECTOR AMP	ZERO	0.00	11.22
	PLUS	90.00	1469.20
5 SECTOR AMP	ZERO	0.00	11.60
	PLUS	90.00	1455.60
6 SECTOR AMP	ZERO	0.00	11.20
	PLUS	90.00	1494.50
7 SECTOR AMP	ZERO	0.00	13.80
	PLUS	90.00	1323.60
8 SECTOR AMP	ZERO	0.00	10.10
	PLUS	90.00	1465.40

1-11/16" Adaptor

Weight 1 kg
Length 0.31 m
Max. Diameter 4.28 cm

Total Stack Weight 63.4 kg in air
Total Stack Length 8.51 m

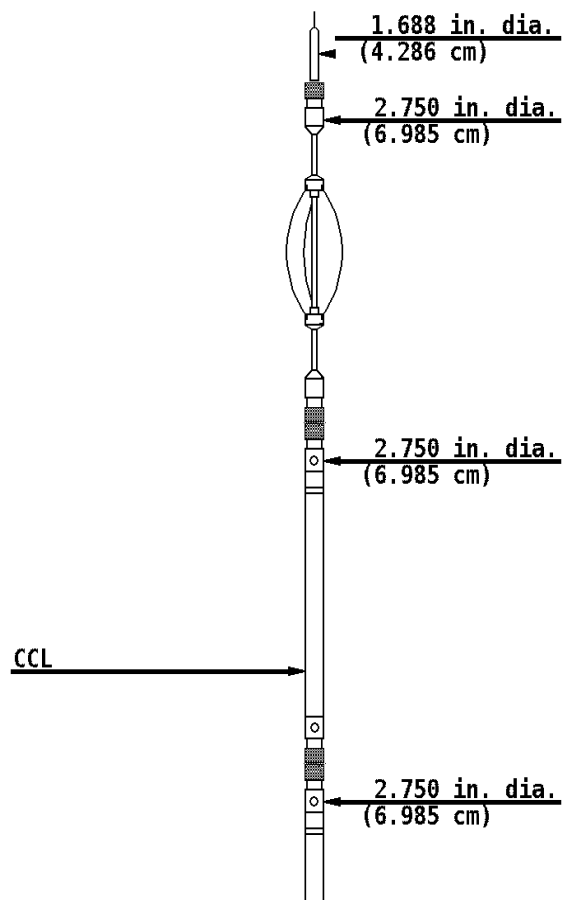
Slim Hole Centralizer

Weight 5.4 kg
Length 0.76 m
Max. Diameter 6.9 cm

Collar Locator

Weight
Length 1.04 m
Max. Diameter

Slim Hole Gamma Ray



Weight
Length 1.45 m
Max. Diameter

Slim Hole Centralizer

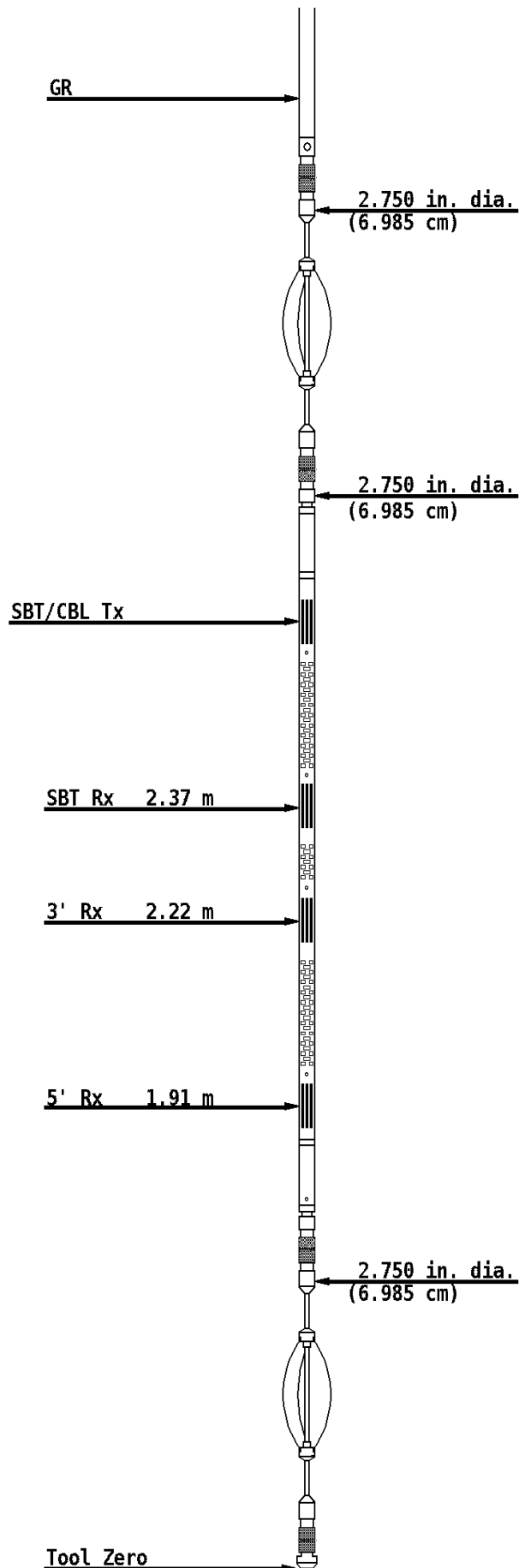
Weight 10.8 kg
Length 0.94 m
Max. Diameter 6.9 cm

Sector Bond

Weight 40.8 kg
Length 3.15 m
Max. Diameter 6.9 cm

Slim Hole Centralizer

Weight 5.4 kg
Length 0.76 m
Max. Diameter 6.9 cm



COMPANY PARAMOUNT RESOURCES LTD

300/J-04-60-10-117-30

WELL PARA et al CAMERON J-04

FIELD CAMERON **PROVINCE** N.W.T



Weatherford®



COMPENSATED SONIC

COMPANY	PARAMOUNT RESOURCES LTD.			
WELL	PARAMOUNT ET AL CAMERON J-04			
FIELD	CAMERON HILLS			
PROVINCE/COUNTY	NORTH WEST TERRITORIES			
COUNTRY/STATE	CANADA			
LOCATION	300/J-04-60-10-117-30 FIELD PRINT			
LSD	SEC	TWP	RGE	Other Services
API Number		MICROLOG		PHOTO DENSITY
Permit Number 1159		ARRAY INDUCTION		DUAL SPACED NEUTRON
Permanent Datum GROUND LEVEL, Elevation 765.20 metres				Elevations: metres
Log Measured From 4.00 M above Permanent Datum				KB 769.20
Drilling Measured From KB				DF
				GL 765.20
Date	15-FEB-2007			
Run Number	1			
Depth Driller	1449.00	metres		
Depth Logger	1449.50	metres		
First Reading	1445.50	metre		
Last Reading	352.00	metre		
Casing Driller	430.00	metres		
Casing Logger	429.80	metres		
Bit Size	200.00	mm		
Hole Fluid Type	GELCHEM			
Density / Viscosity	1060.0 kg/M3	93.00 CP		
PH / Fluid Loss	11.00	11.00 ml/30Min		
Sample Source	FLOWLINE			
Rm @ Measured Temp	1.18 @ 25.0	ohm-m		
Rmf @ Measured Temp	1.04 @ 25.0	ohm-m		
Rmc @ Measured Temp	1.32 @ 25.0	ohm-m		
Source Rmf / Rmc	PRESS	FILTER		
Rm @ BHT	0.78 @ 48.0	ohm-m		
Time Since Circulation	6 HRS			
Max Recorded Temp	48.00	deg C		
Equipment Name	COMPACT			
Equipment / Base	13124	GPR		
Recorded By	G. SINGER			
Witnessed By	A. AHMED			
CIRC. STOP TIME	01:30-FEB-15	Last Line		

BOREHOLE RECORD				Last Edited: 15-FEB-2007 05:01	
Bit Size millimetres	Depth From metres		Depth To metres		
311.000	0.00		430.00		
200.000	430.00		1449.00		
CASING RECORD					
Type	Size millimetres	Depth From metres	Shoe Depth metres	Weight Kg/metre	
SURFACE	219.100	0.00	430.00	35.72	

REMARKS

- 1) SOFTWARE ISSUE: WLS 7.01.0195.
- 2) CUSTOMER SCALES AND LOGGED INTERVALS USED
- 3) TOOLS RUN: MAI, MSS, MPD, MDN, MML, ISC, MGS, MTC, MFE, MCG RUN IN COMBINATION
- 4) HARDWARE: MAI: TWO 25.4 MM STANDOFFS
MSS: THREE 25.4 MM STANDOFFS
MDN: DUAL BOWSPRING AND INTERSONIC CRANK
MTC: SIX LEAF CENTRALIZER

- 5) SERVICE ORDER #: 30073028 SAP #: 4147101 # FIELD PRINTS = 3
- 6) RIG: PD 129

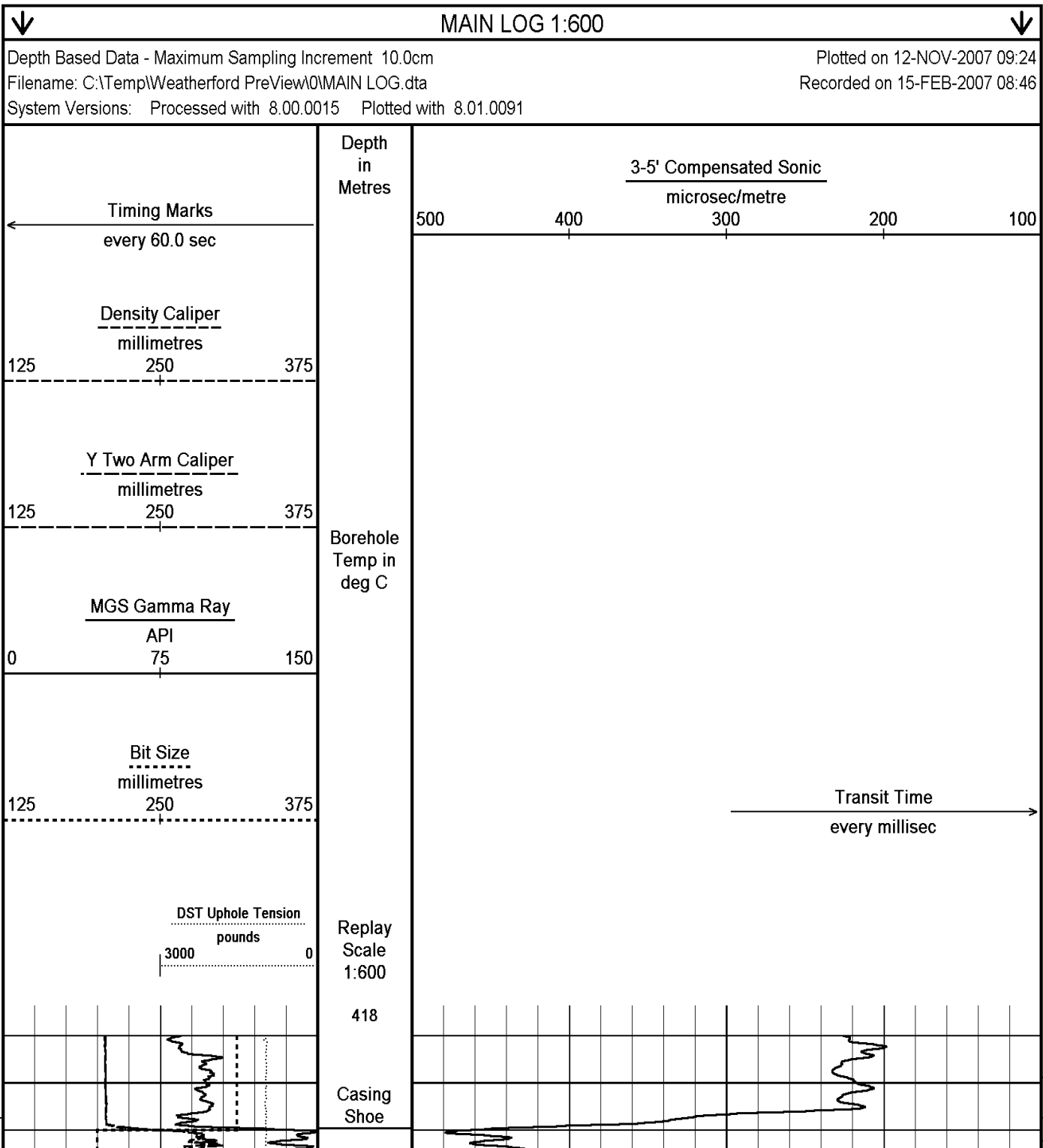
7) HOLE AND CEMENT VOLUMES CALCULATED USING DENSITY AND 2-ARM CALIPERS :

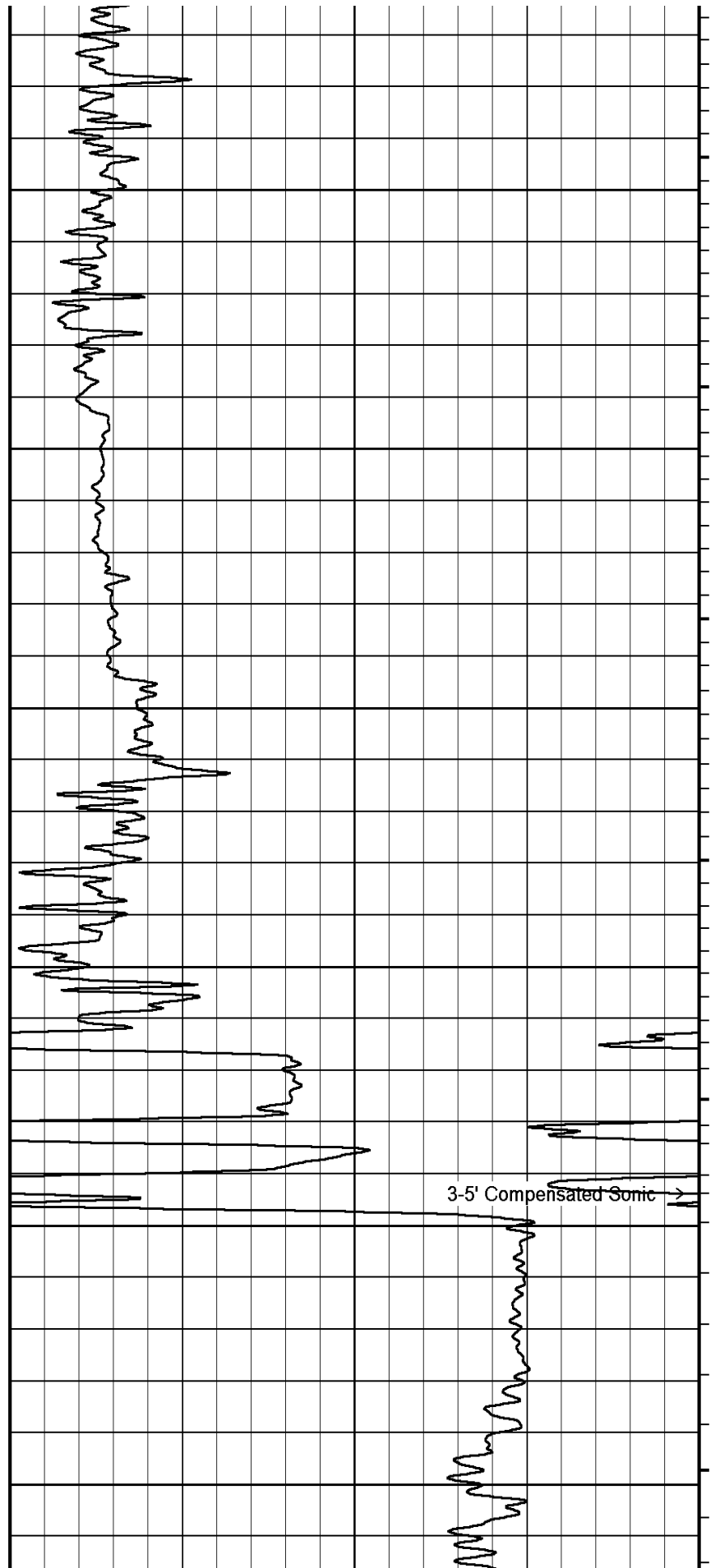
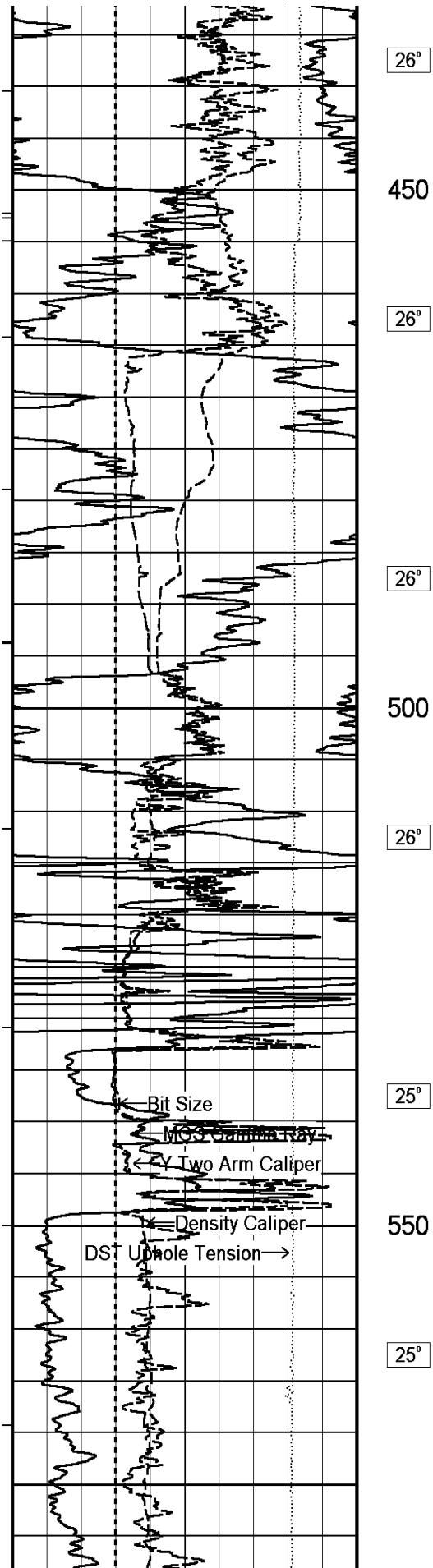
HOLE VOLUME = 37.4 CU.M.

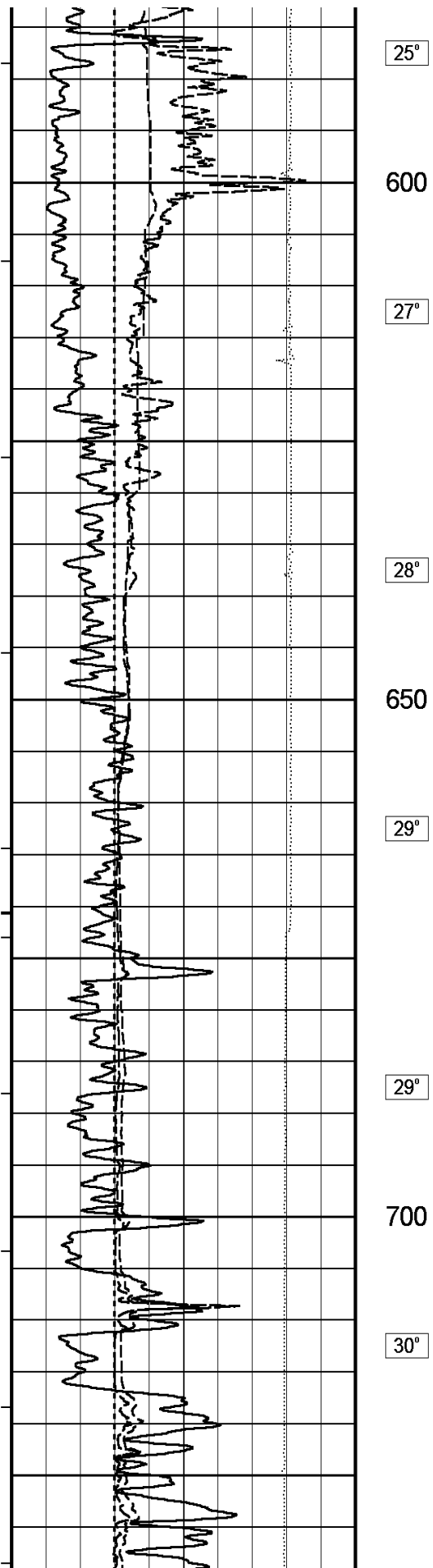
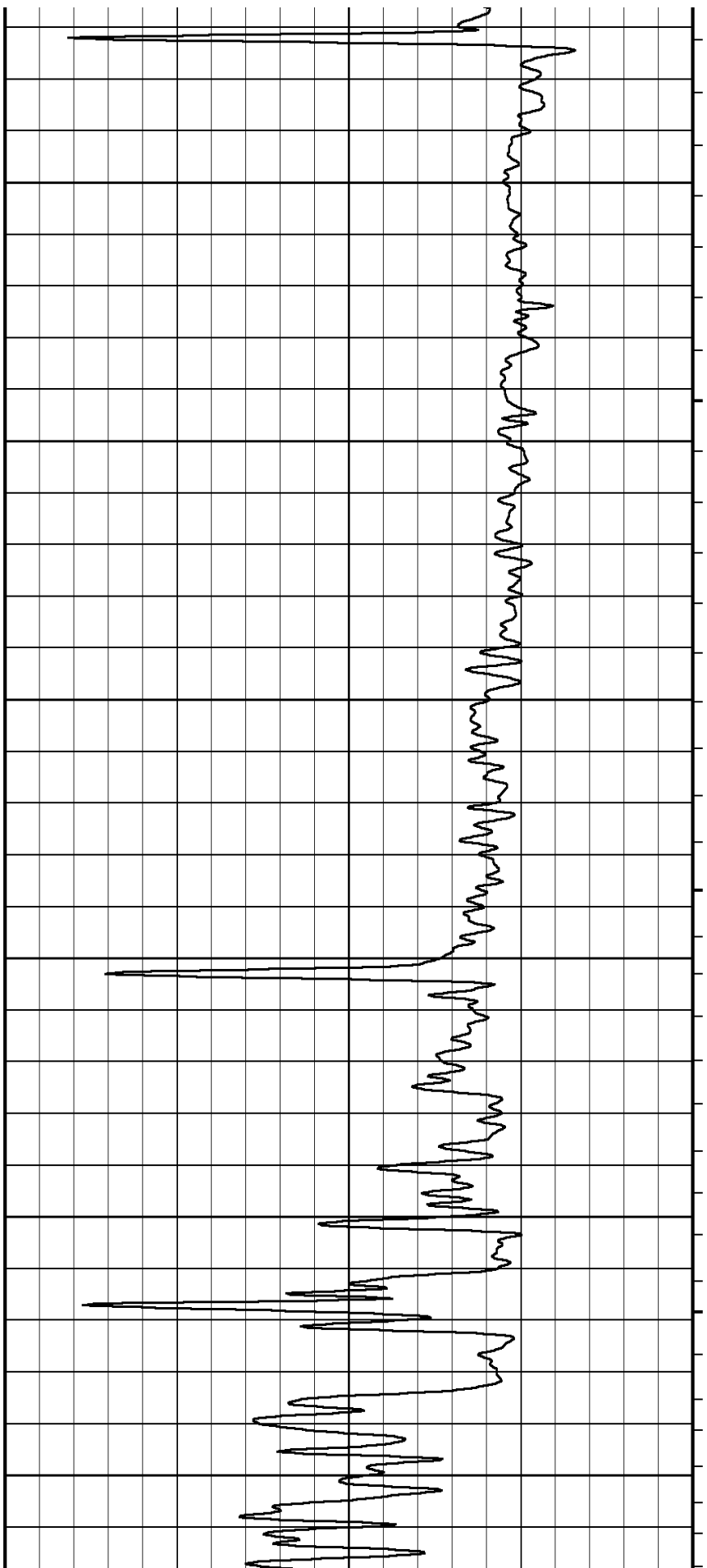
ANNULAR VOLUME USING 139.7 MM PRODUCTION CASING = 21.8 CU.M

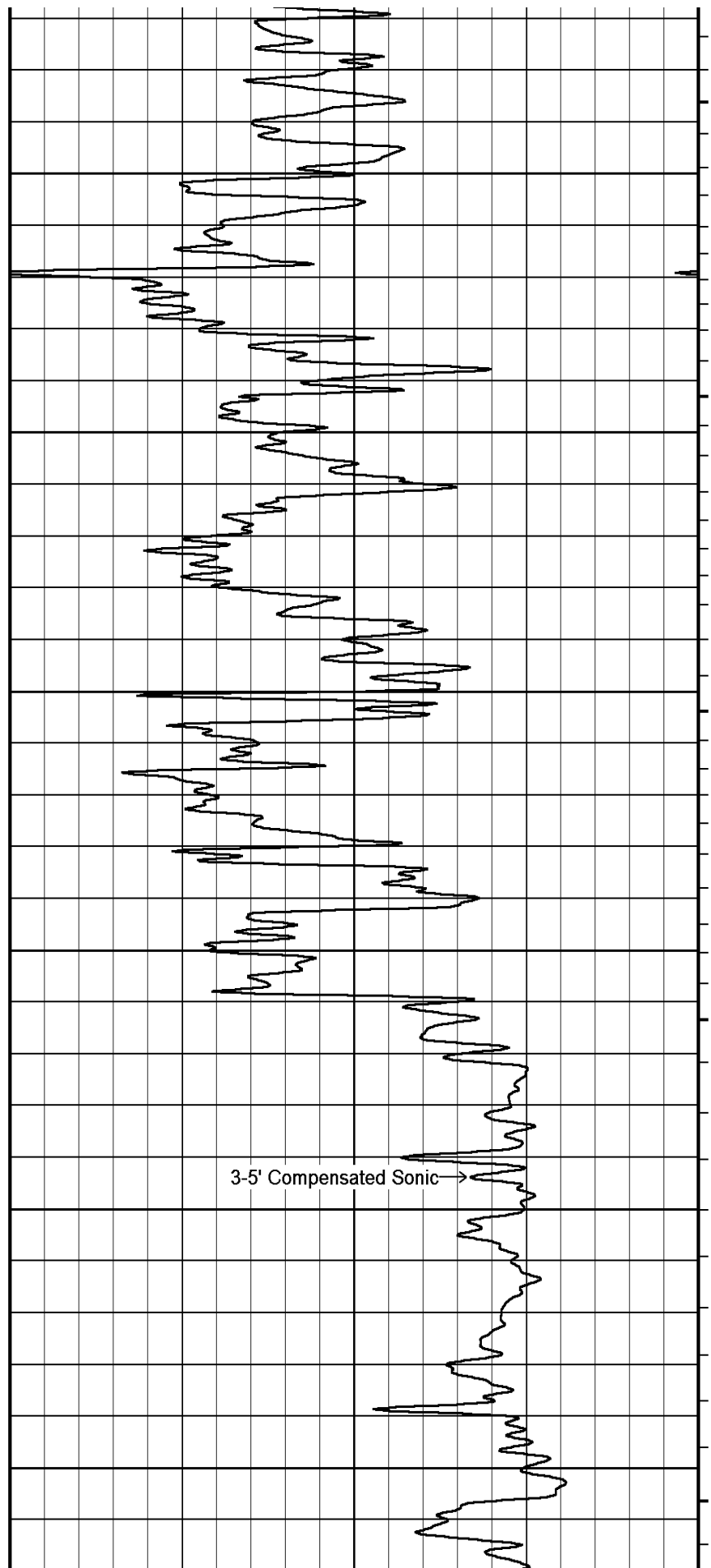
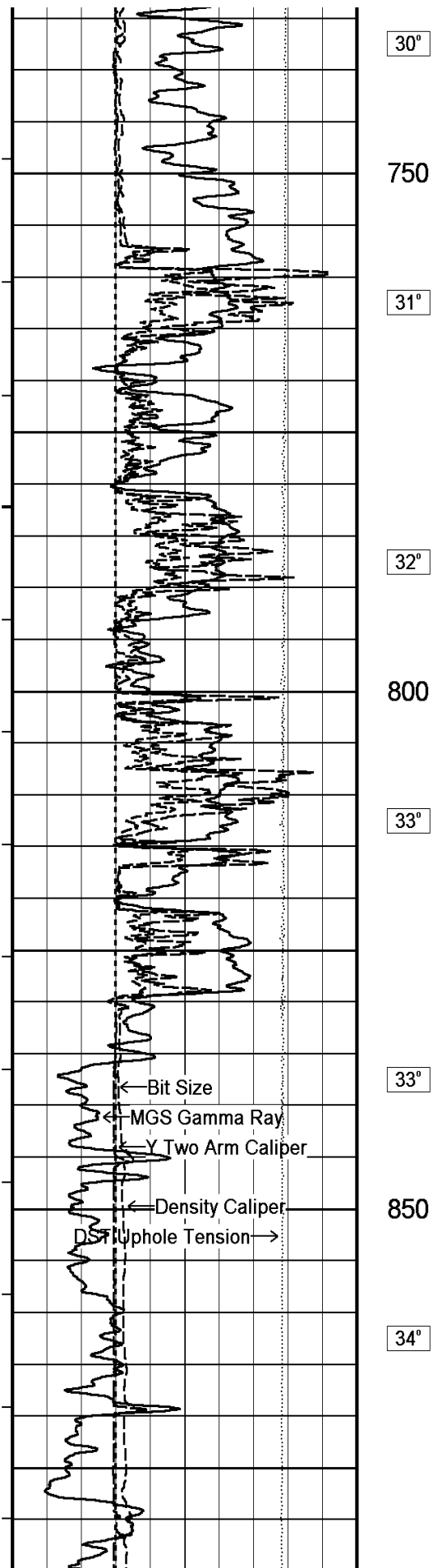
8) SONIC FREE PIPE FOUND FROM 352M - 357M

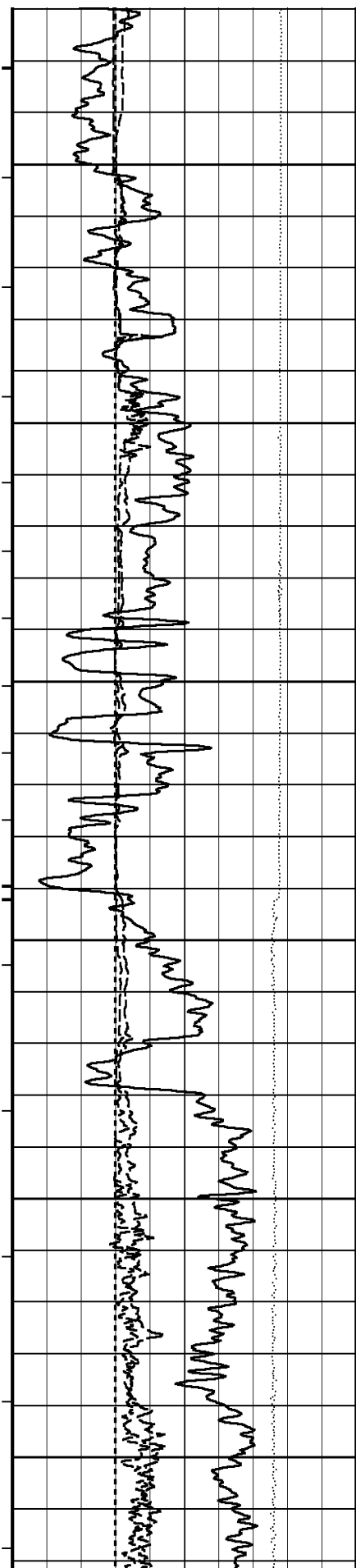
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs,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











34°

900

35°

35°

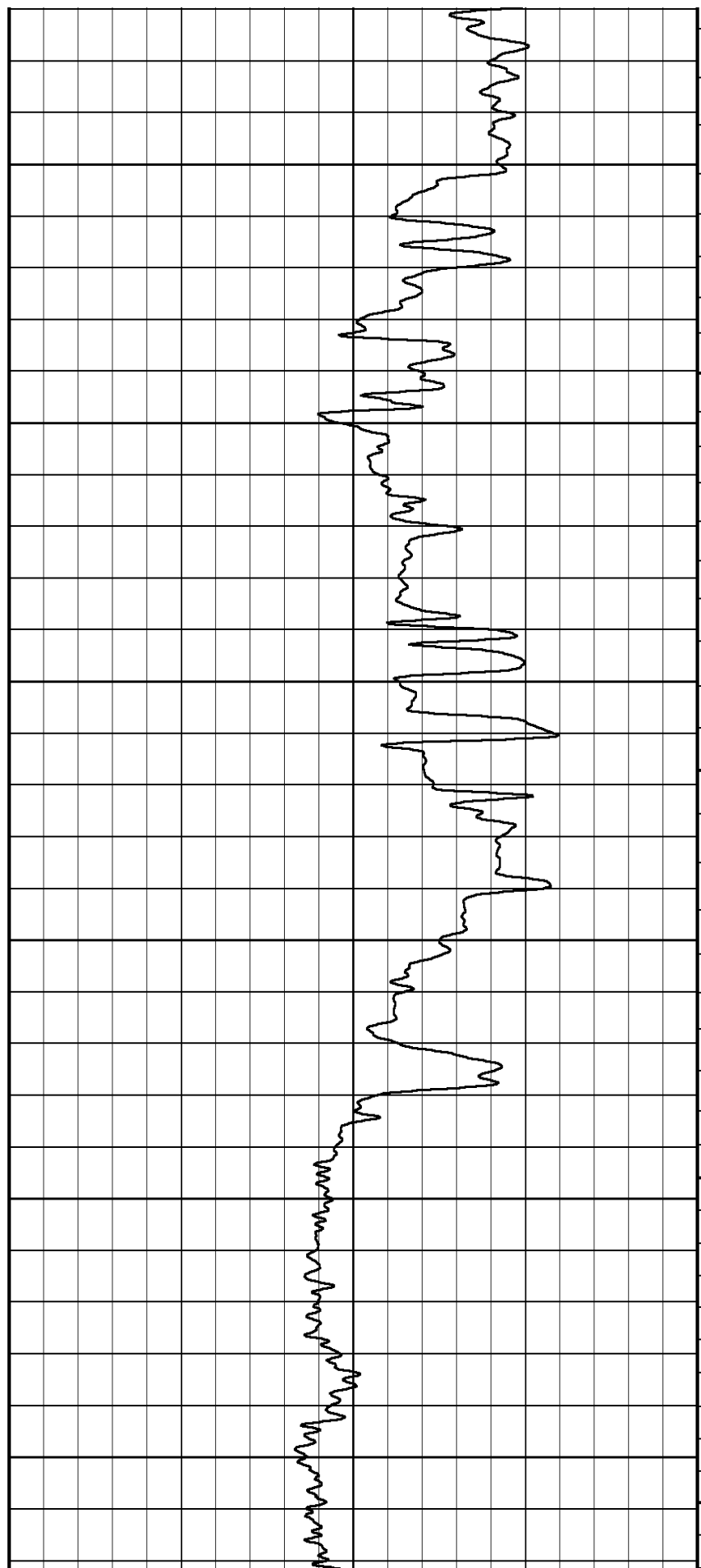
950

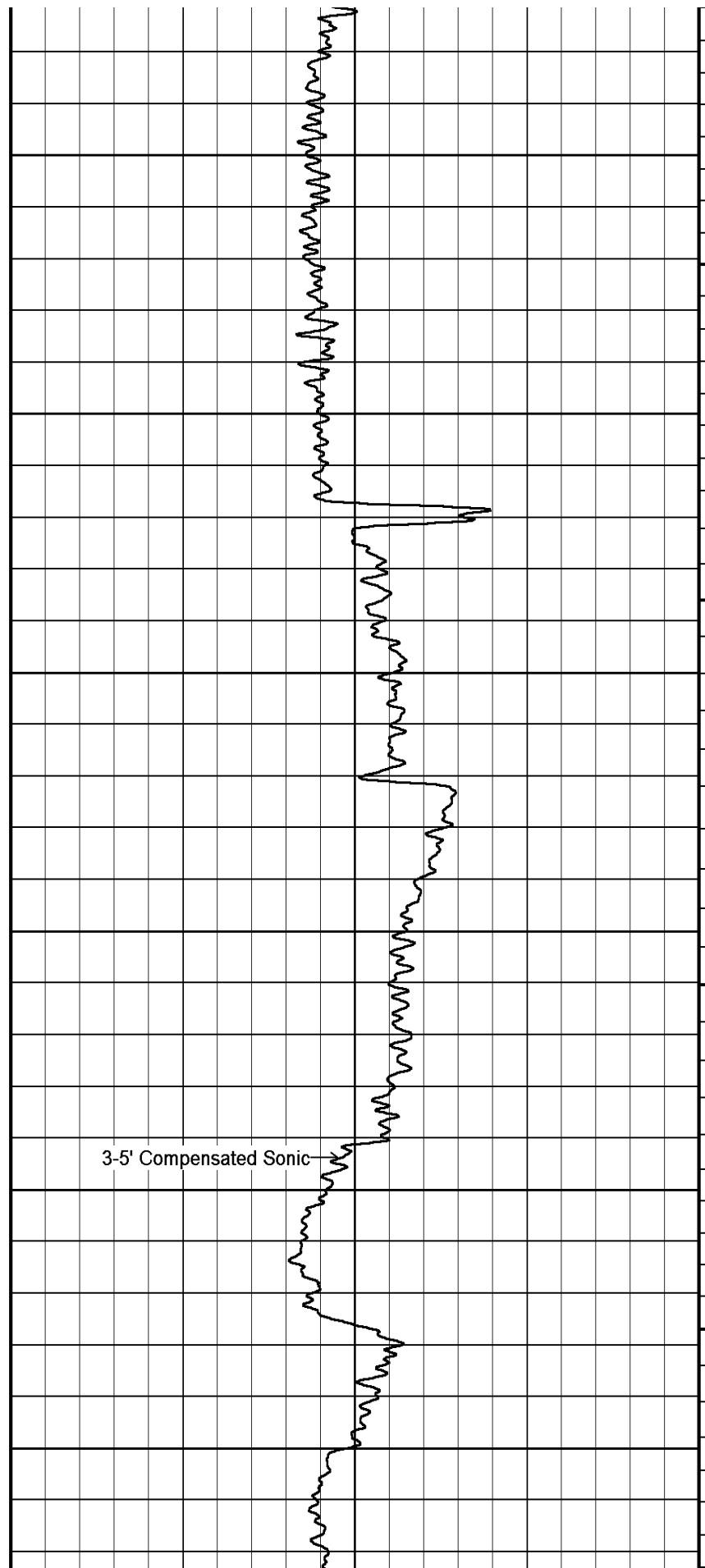
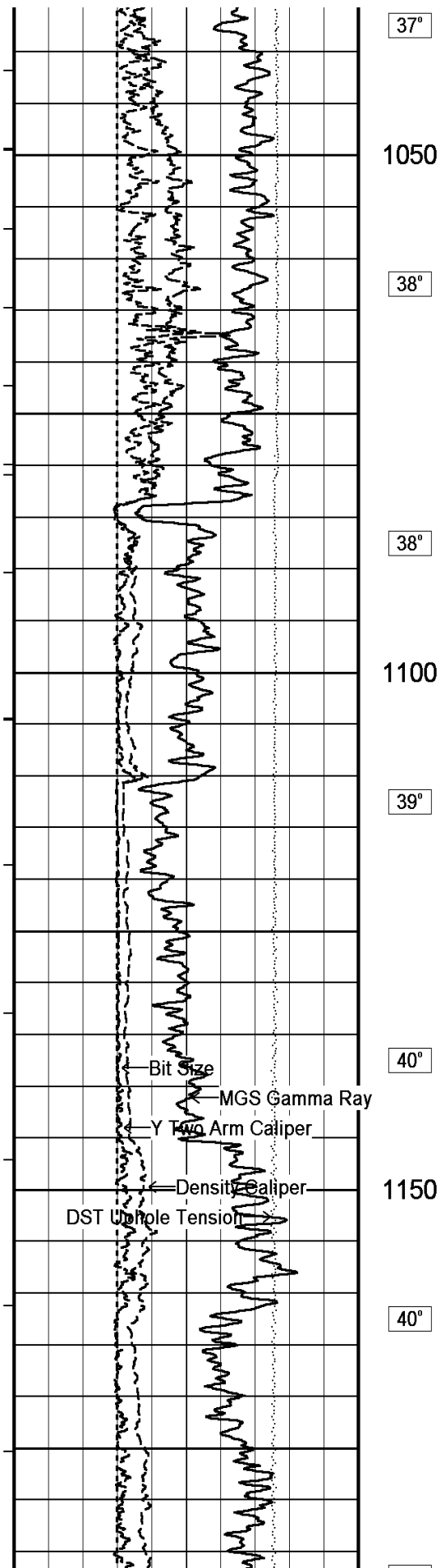
36°

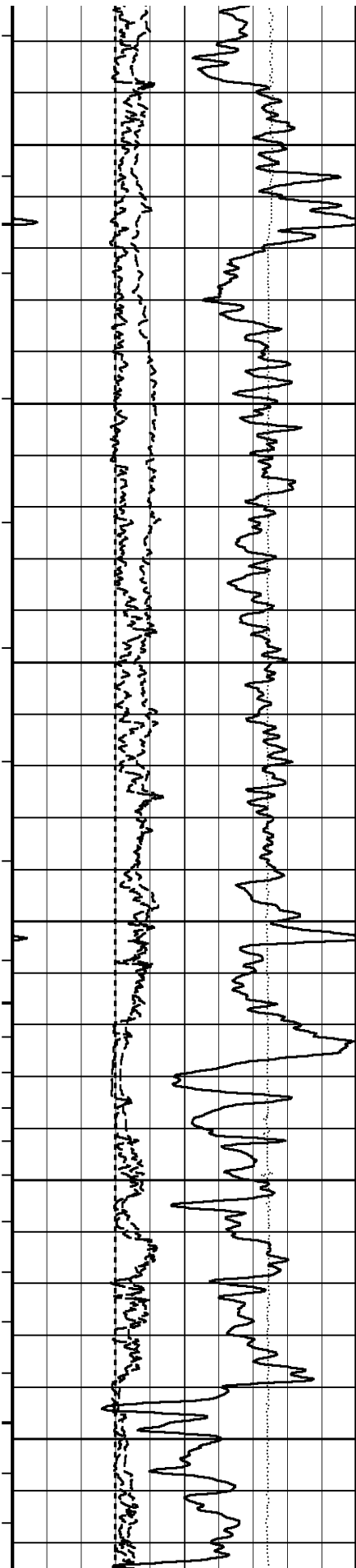
36°

1000

37°







41°

1200

41°

42°

1250

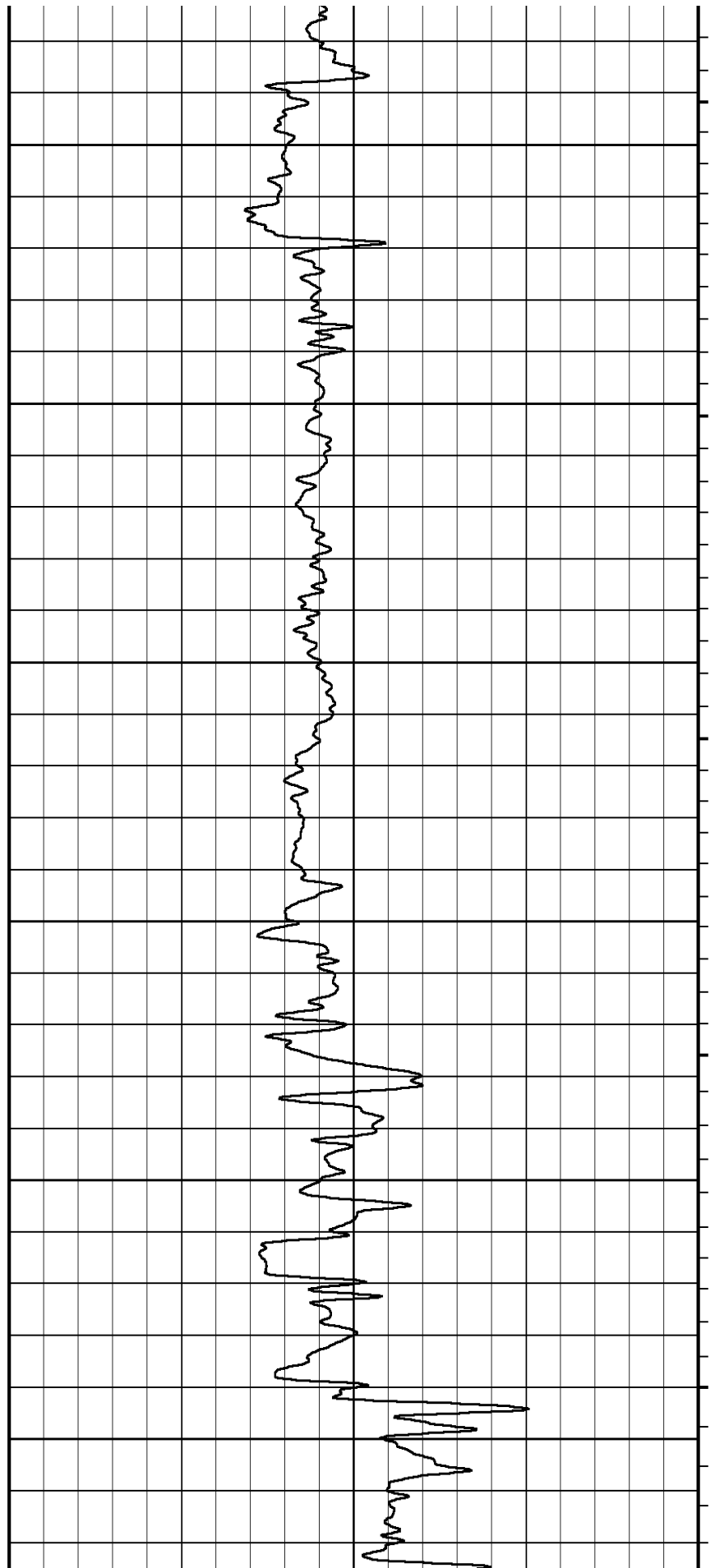
43°

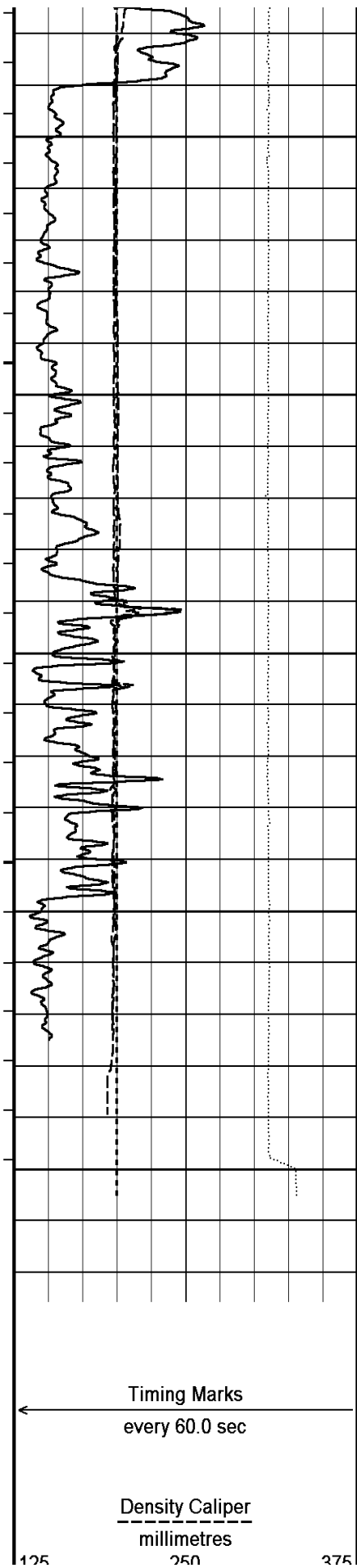
43°

1300

44°

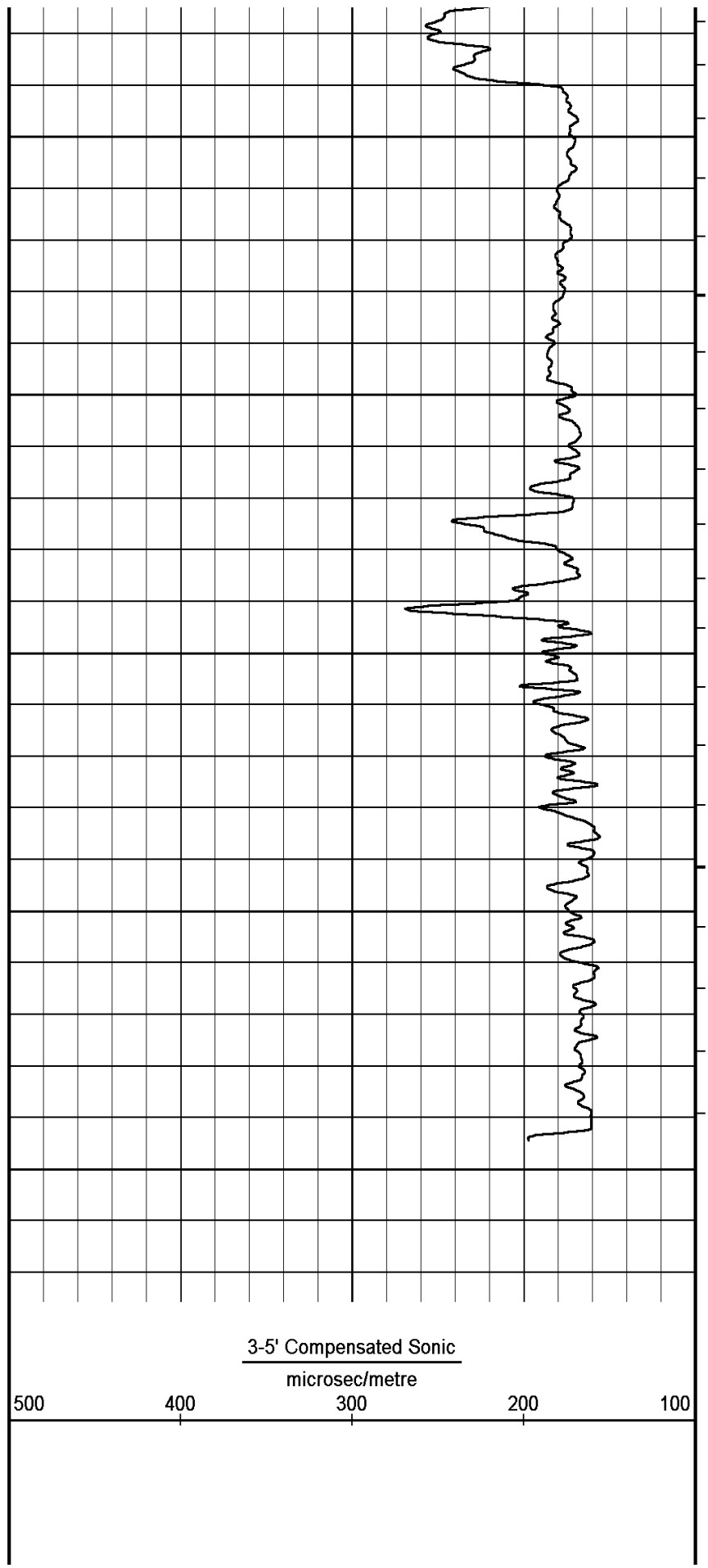
45°

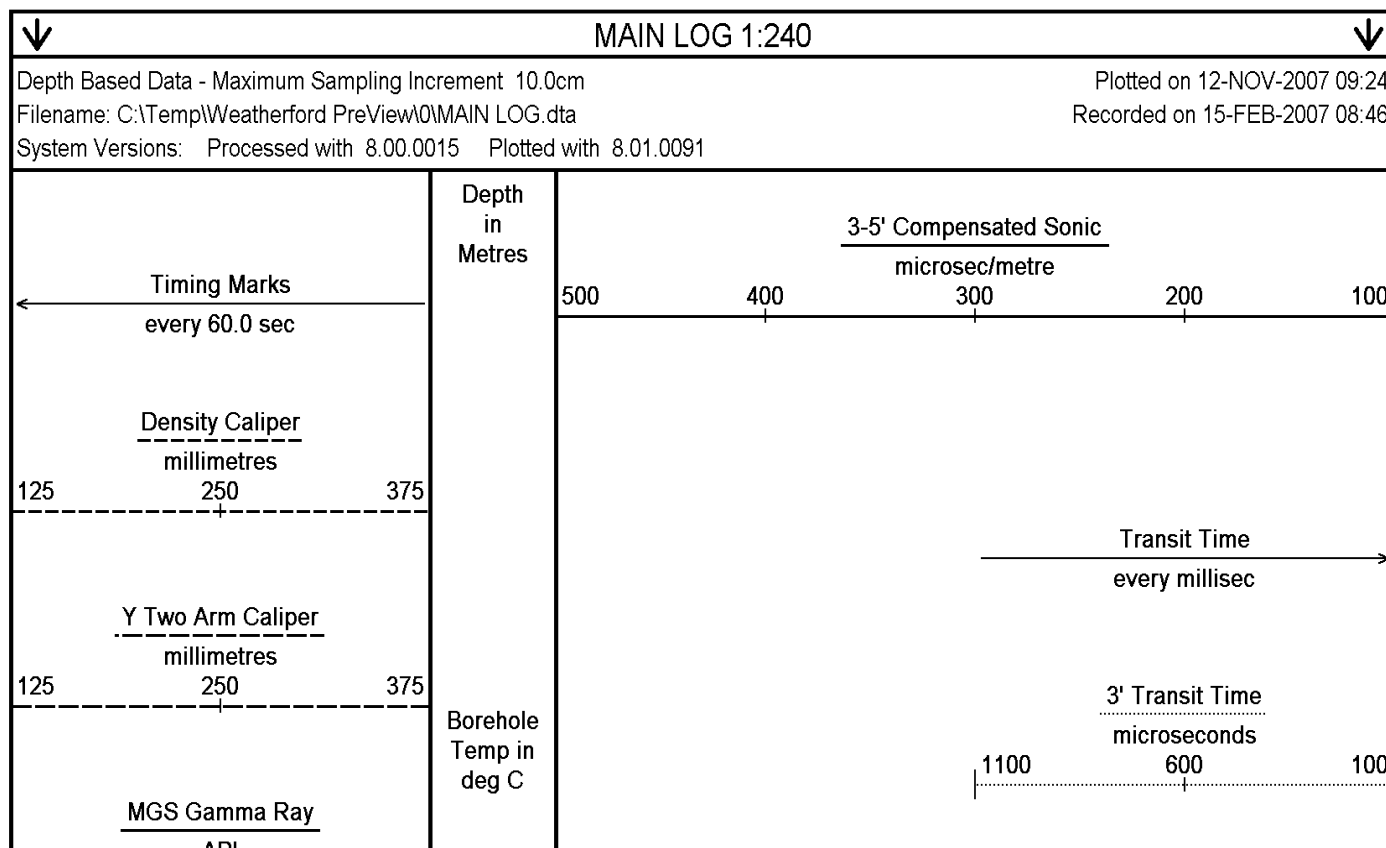
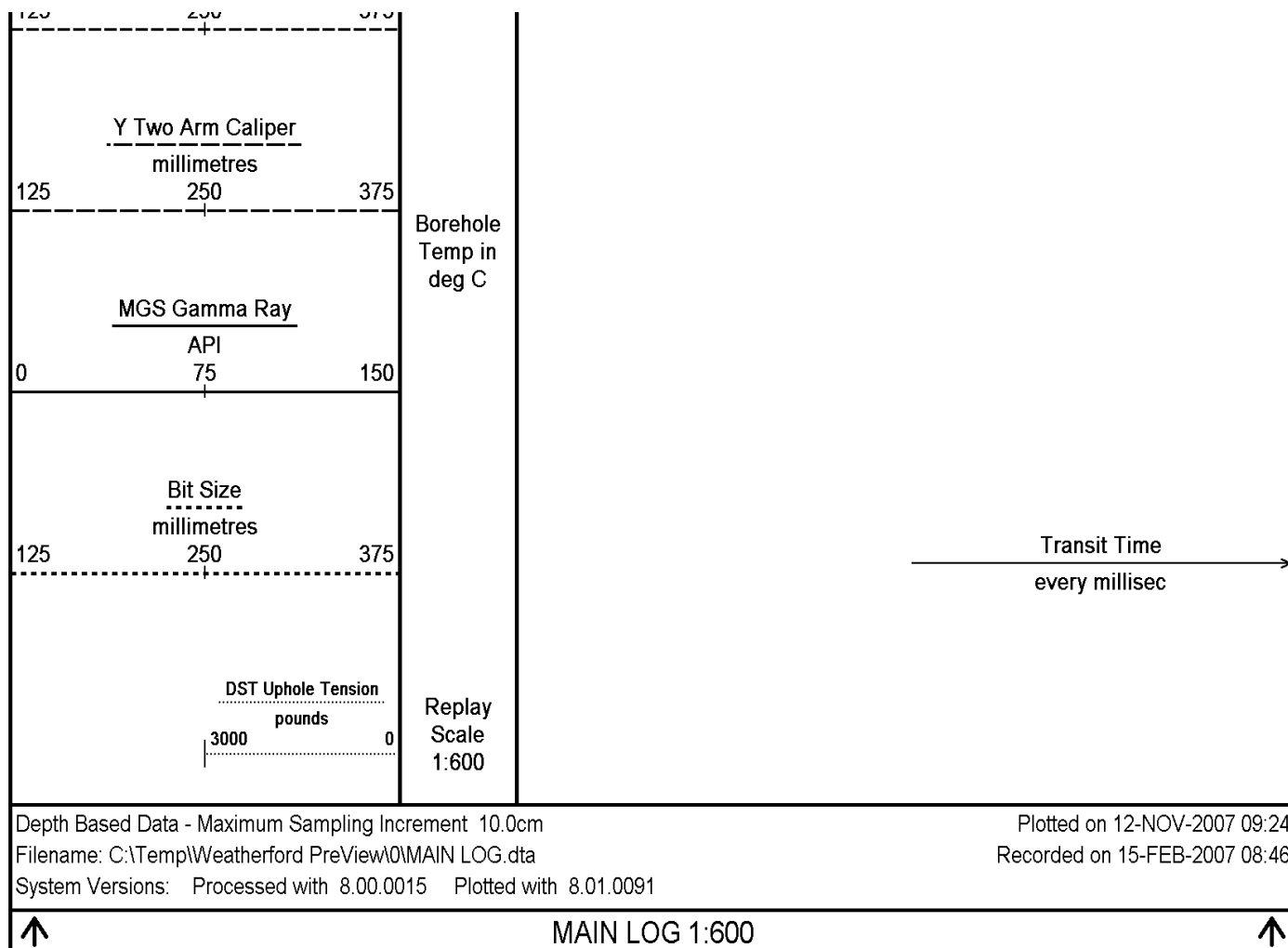


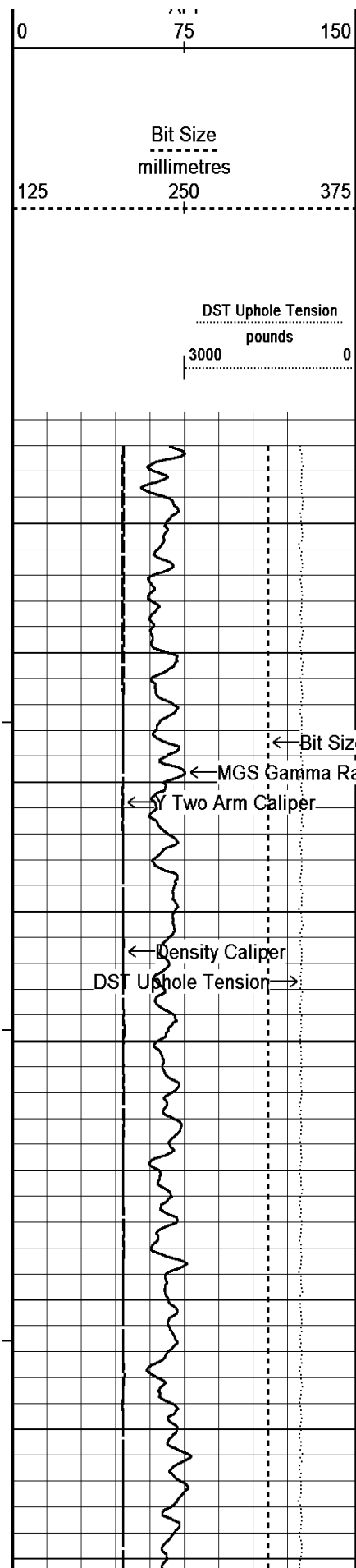


45°
45°
46°
48°

1350
1400
1450
1461
Depth
in
Metres







Replay
Scale
1:240

352

360

25°

370

380

26°

390

4' Transit Time
microseconds

1100 600 100

5' Transit Time
microseconds

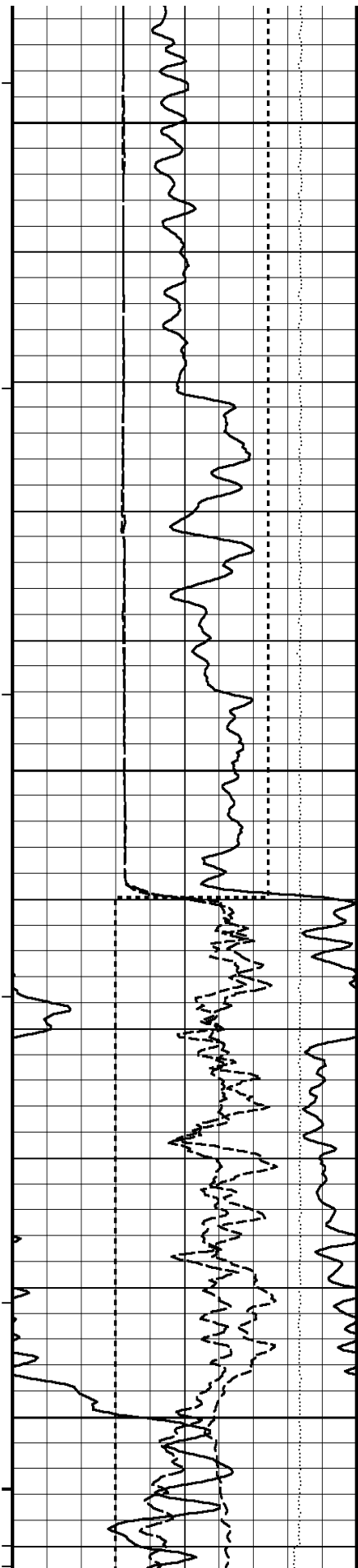
1100 600 100

3-5' Compensated Sonic →

5' Transit Time →

4' Transit Time →

3' Transit Time →



400

410

26°

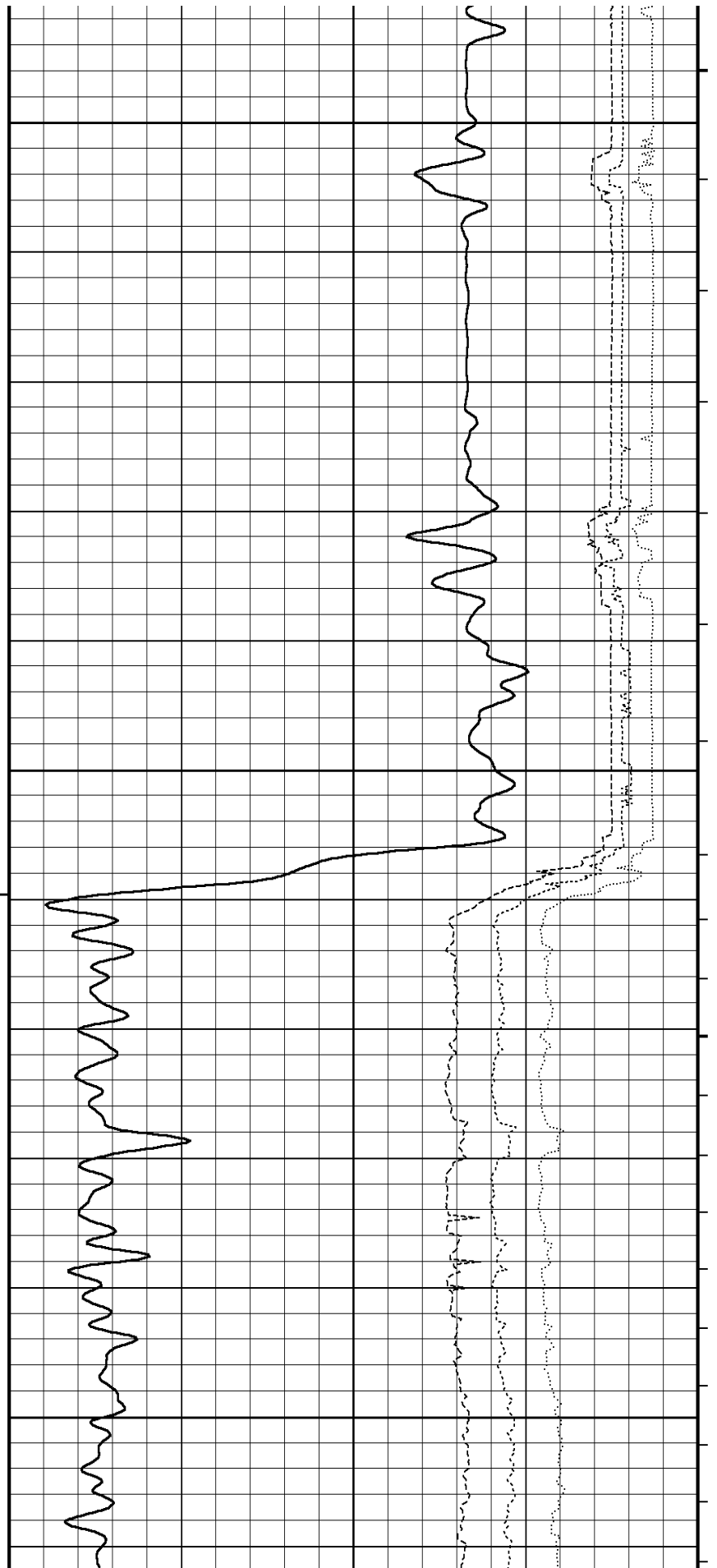
420

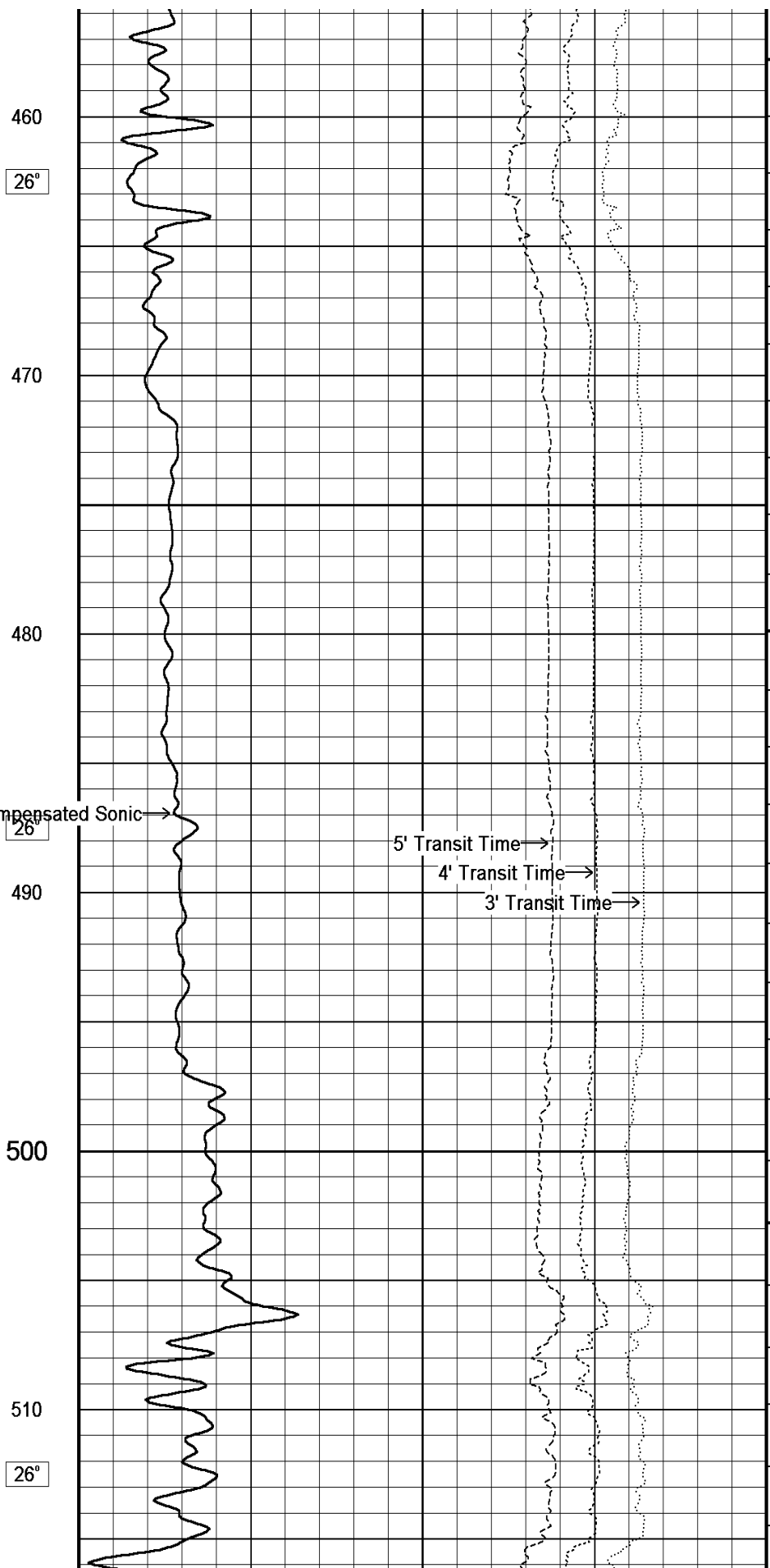
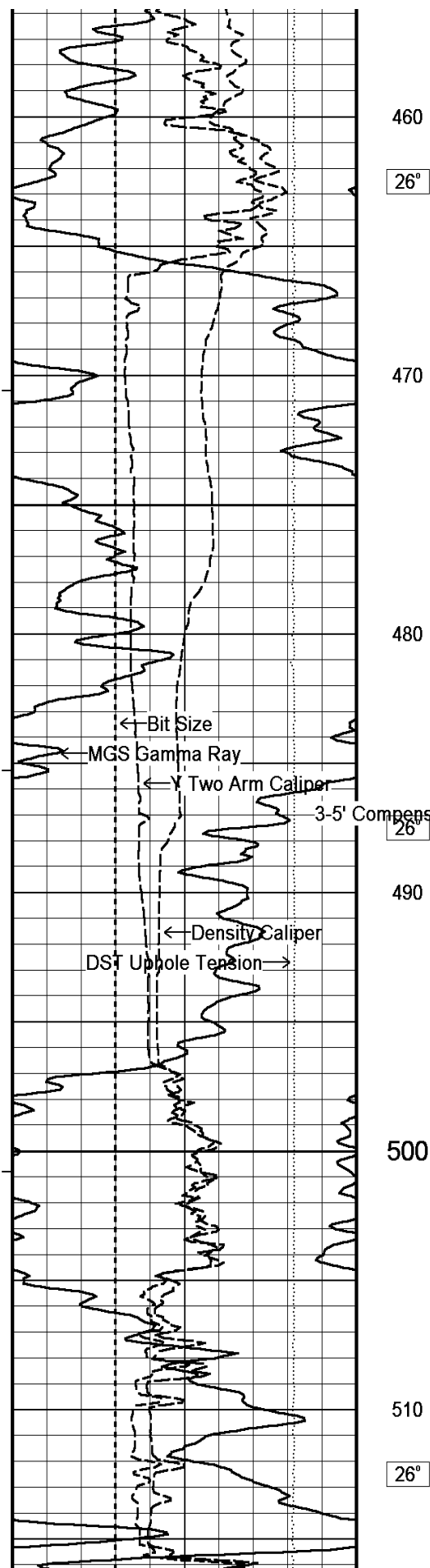
Casing
Shoe
430

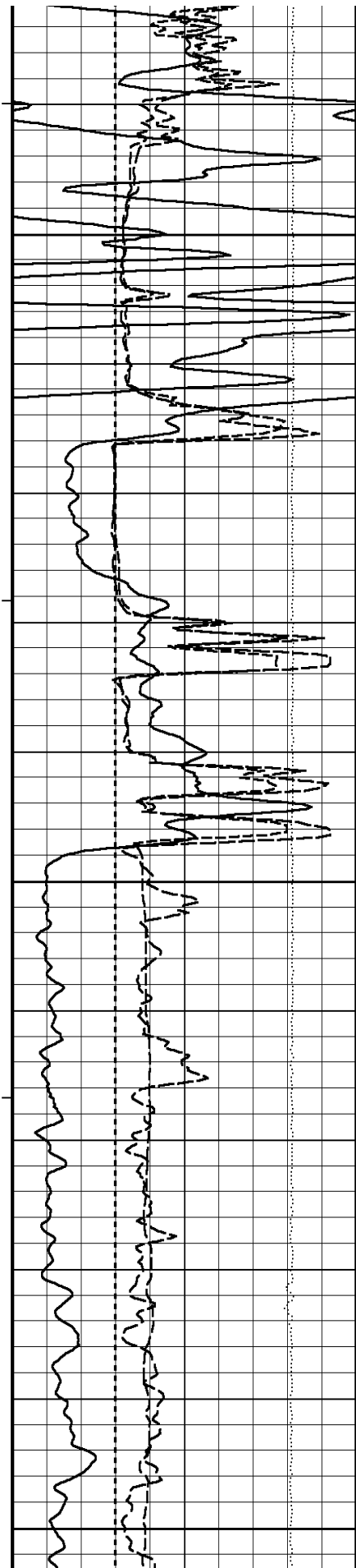
26°

440

450







520

530

25°

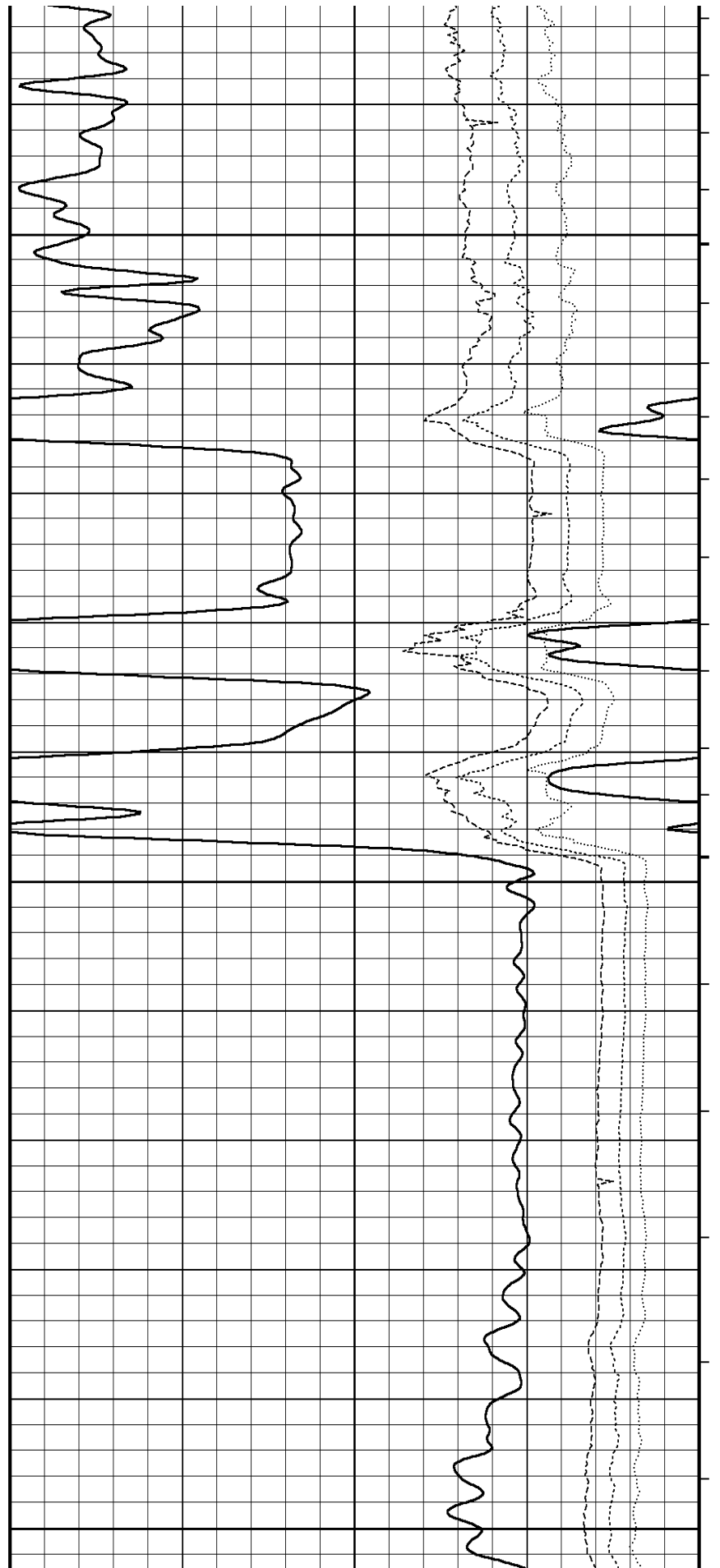
540

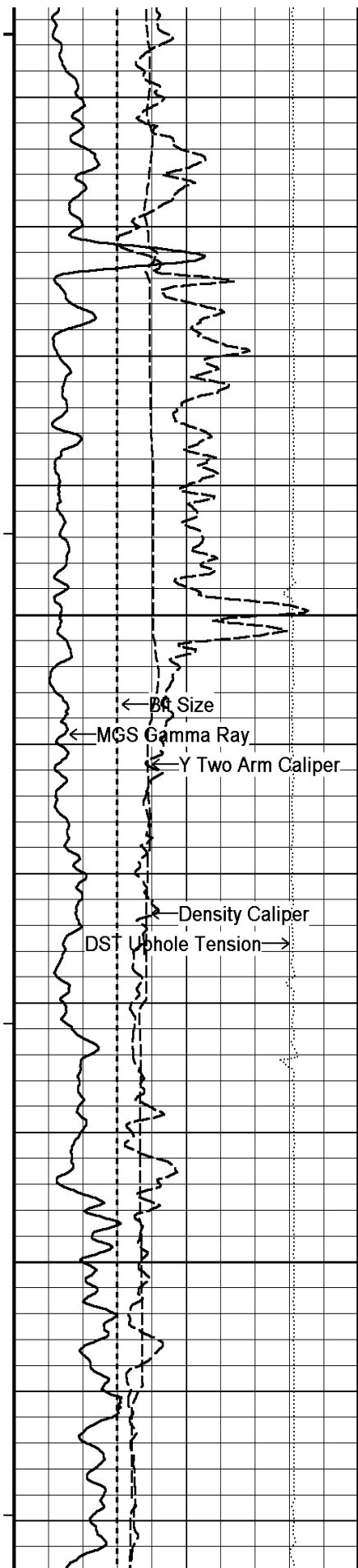
550

560

25°

570





580

25°

590

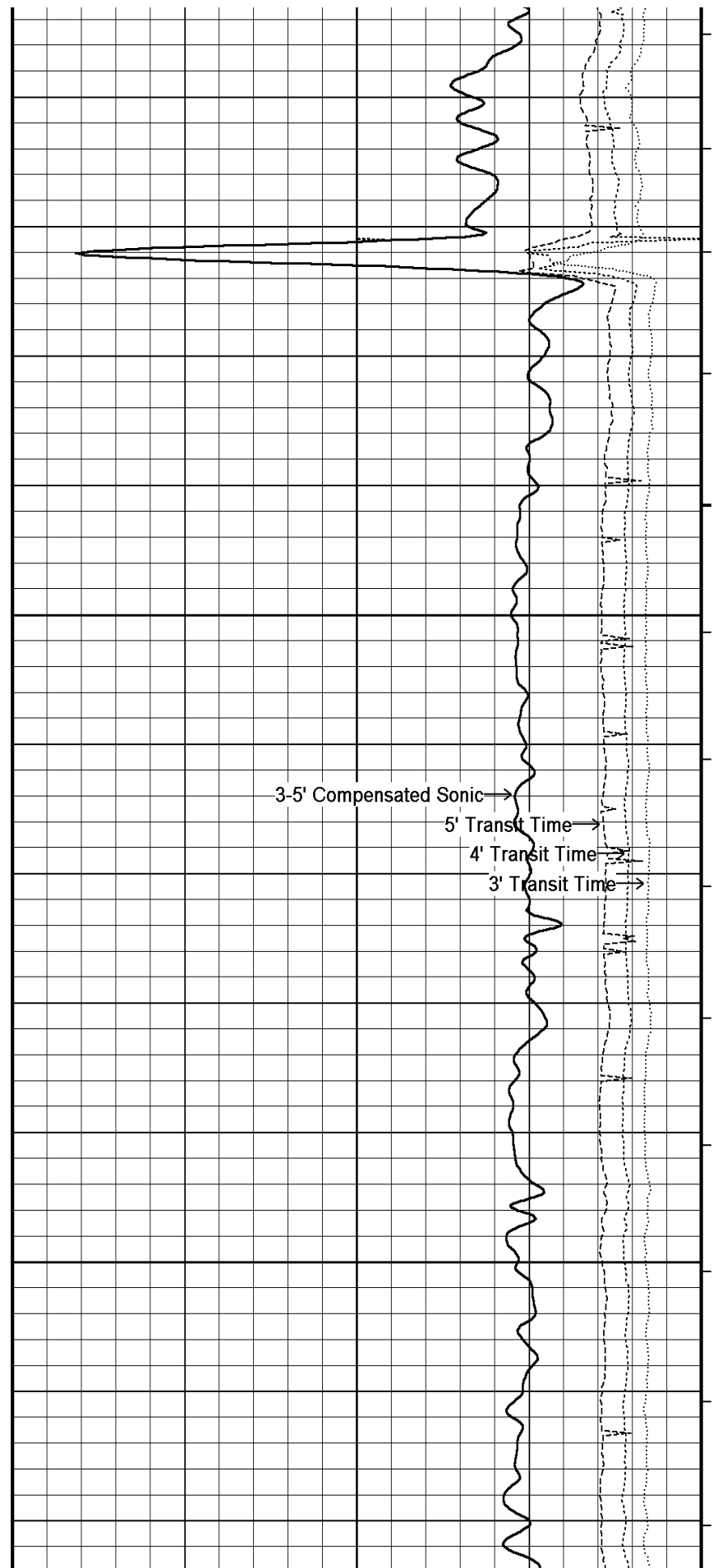
600

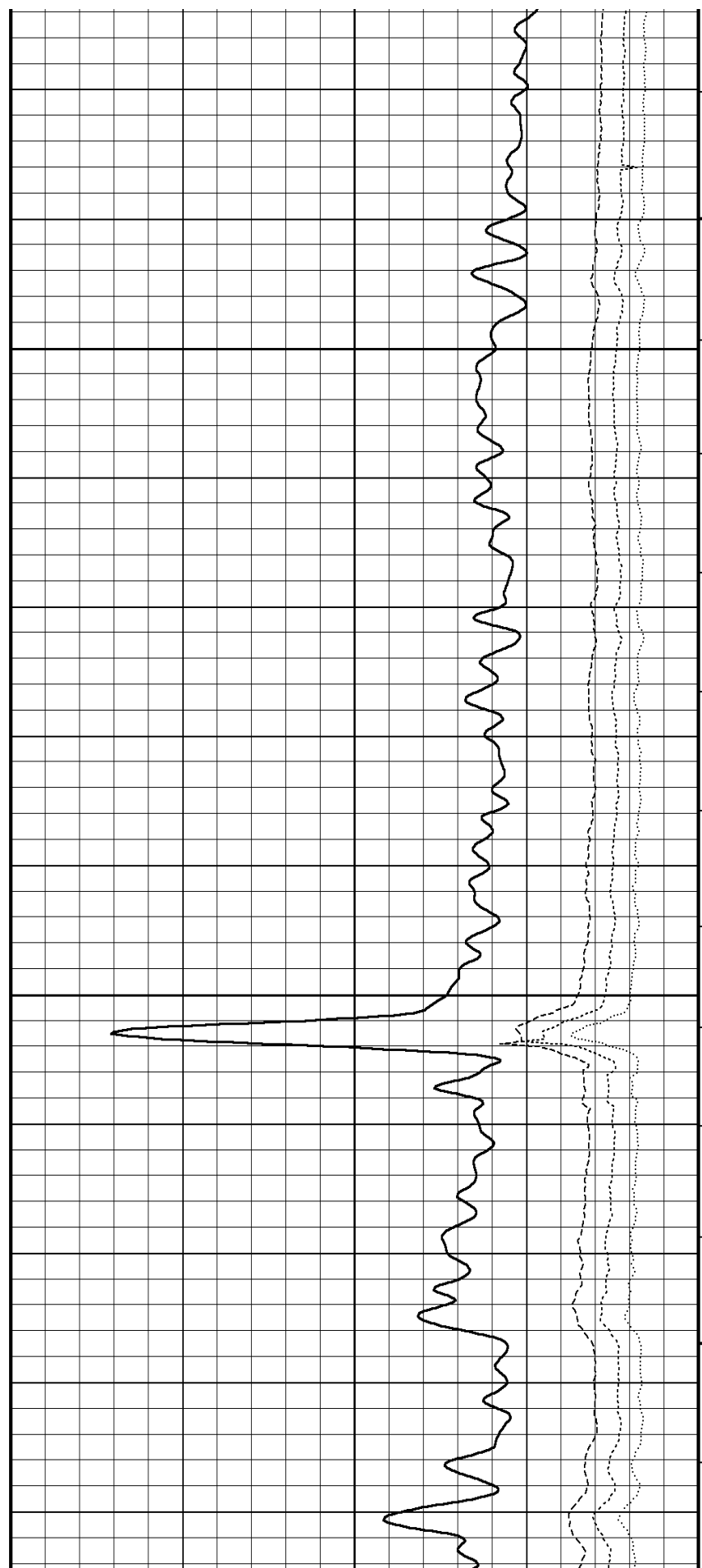
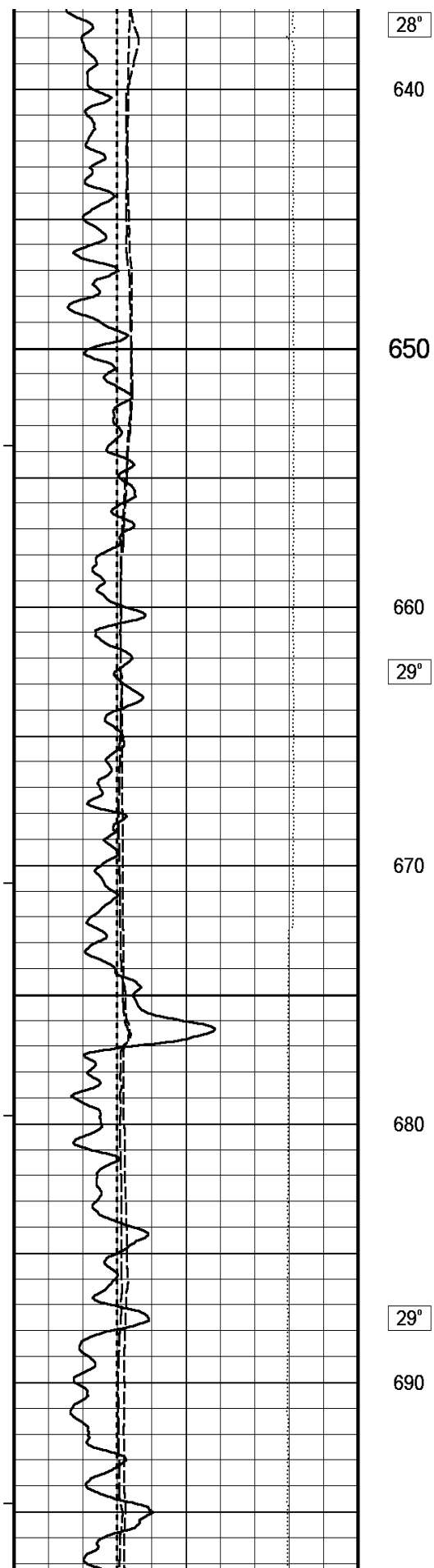
610

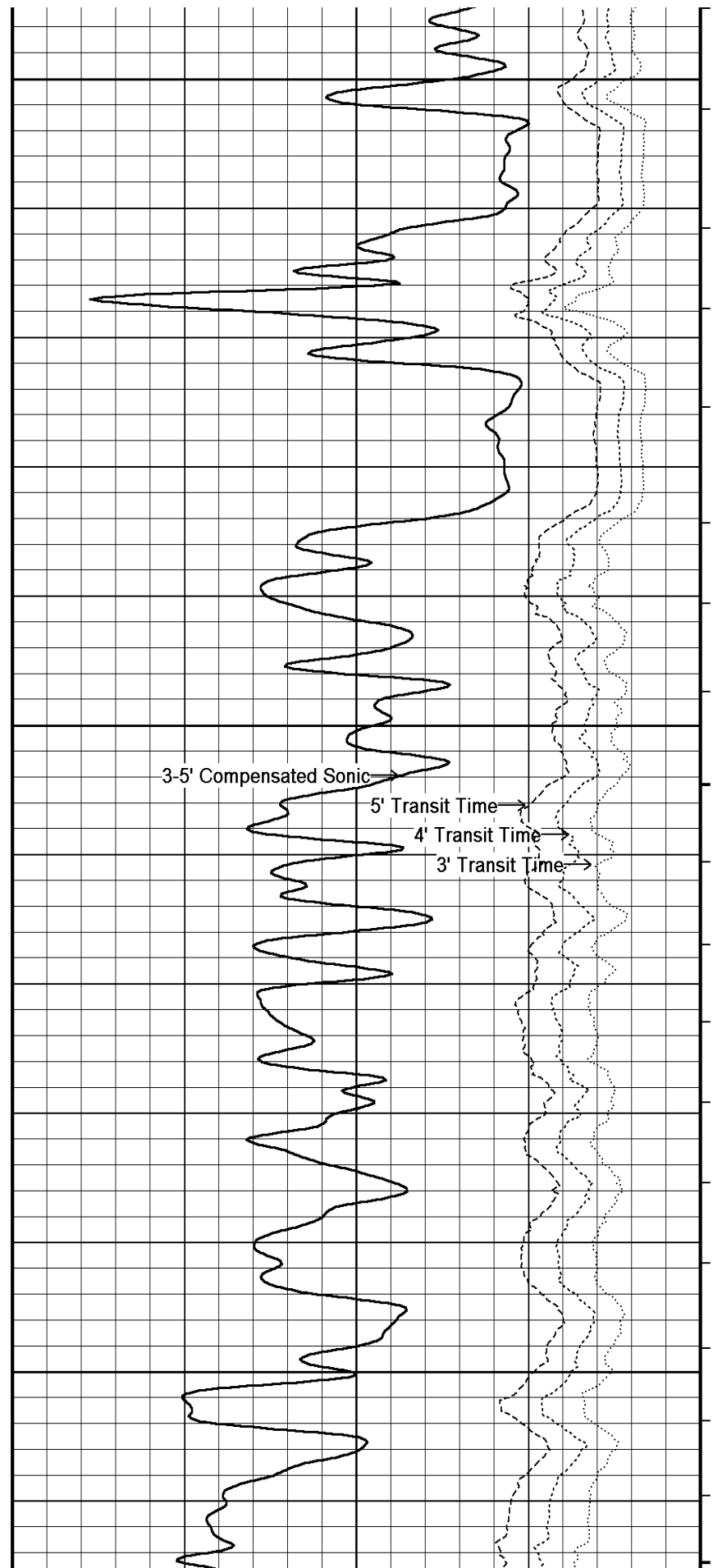
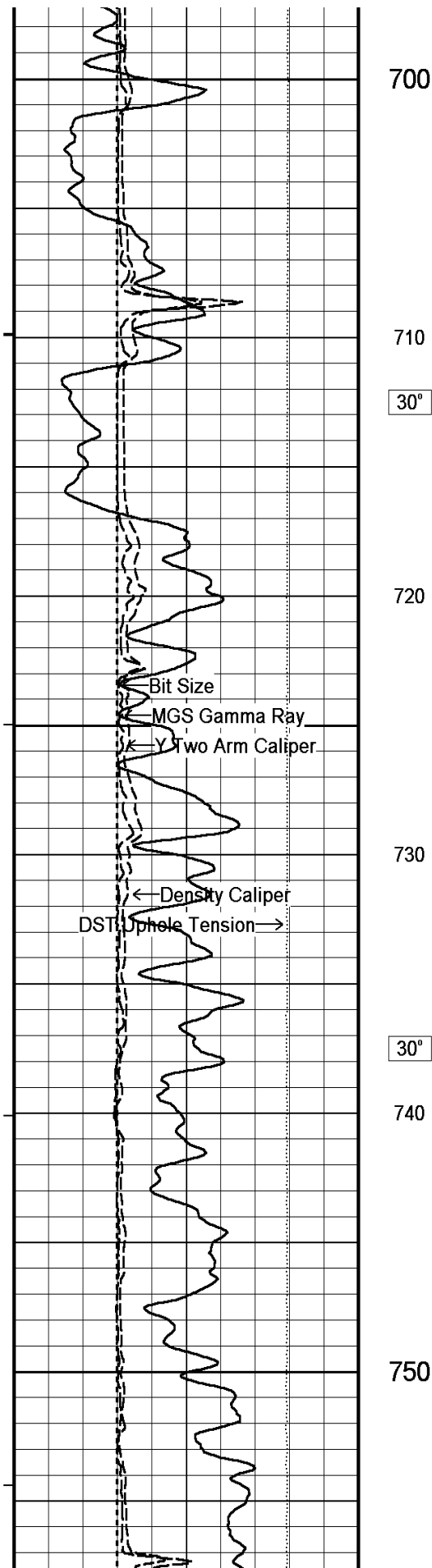
27°

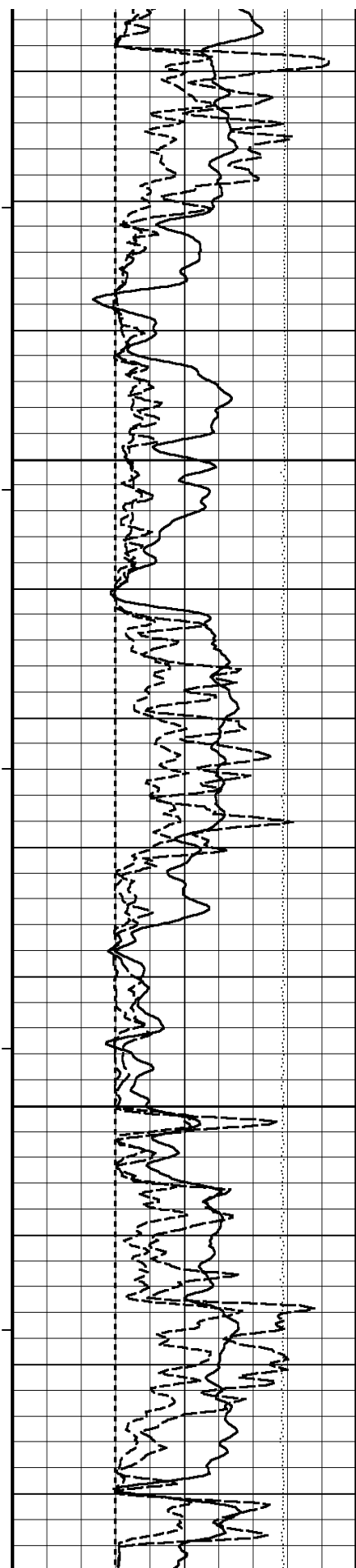
620

630









760

31°

770

780

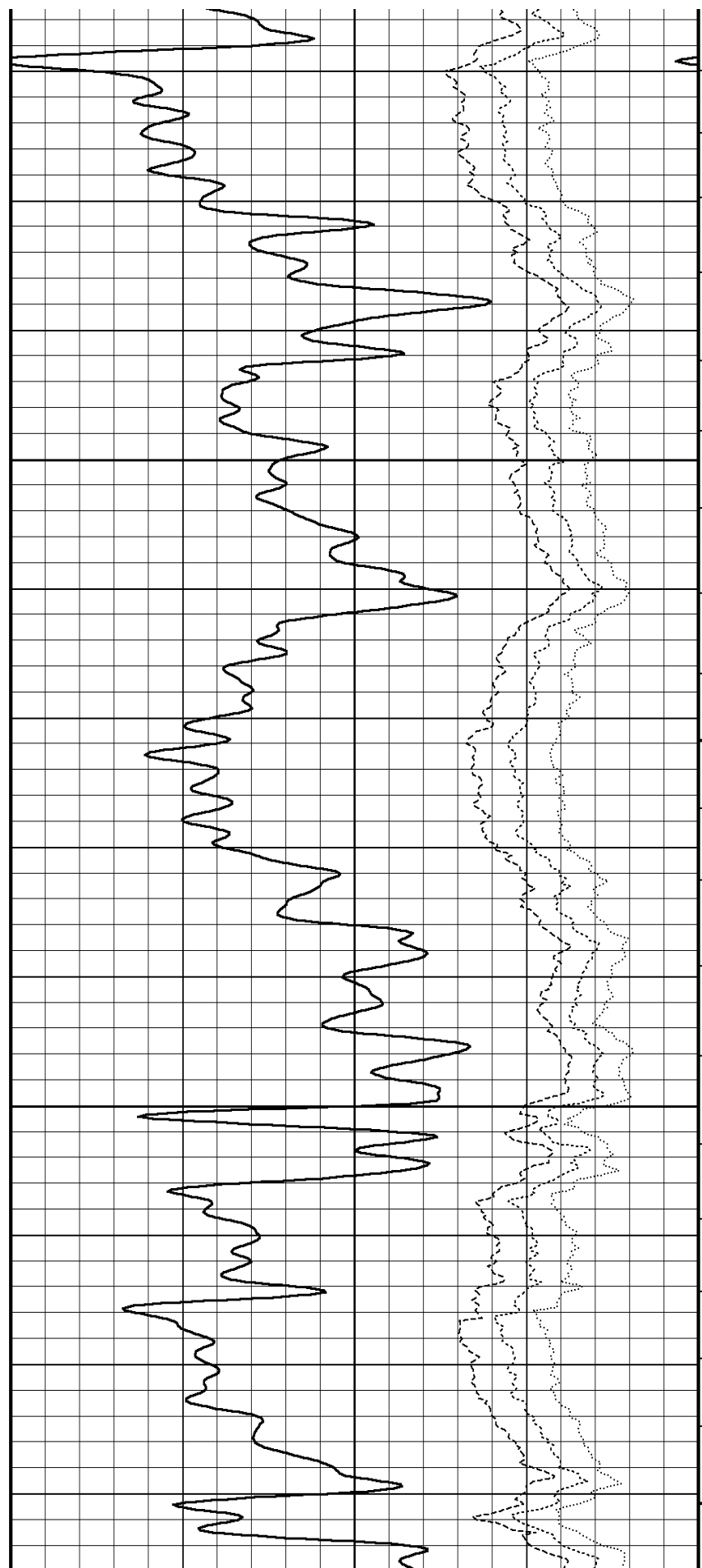
32°

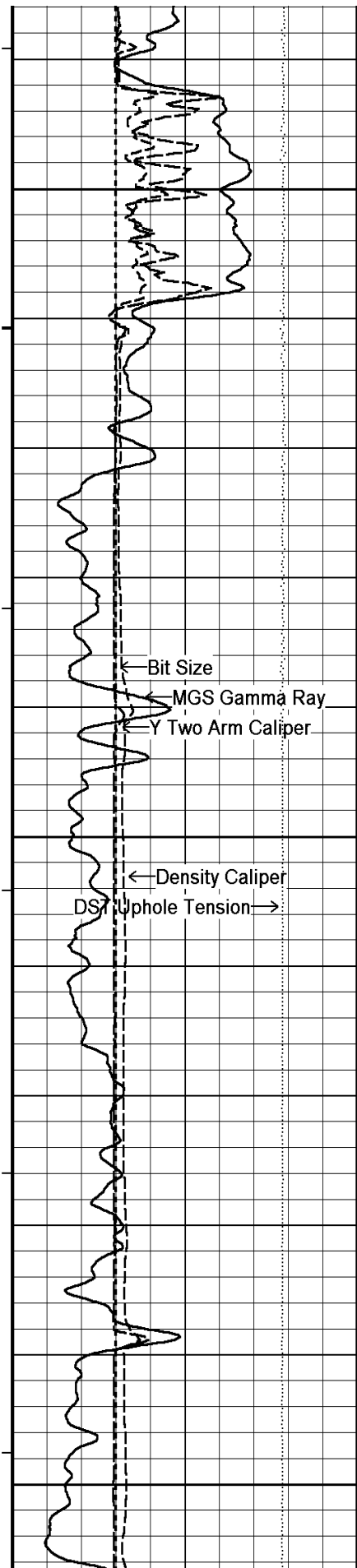
790

800

810

33°





820

830

33°

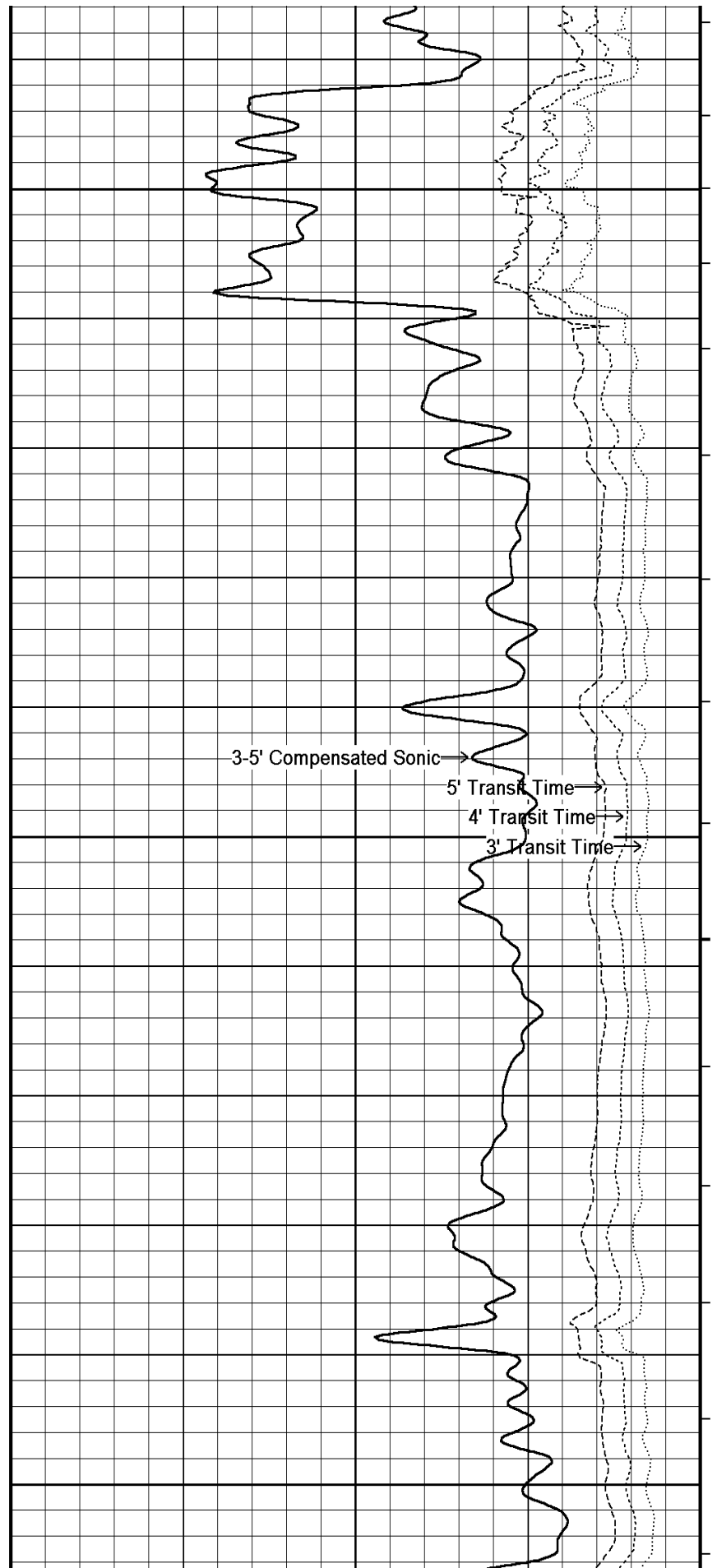
840

850

860

34°

870

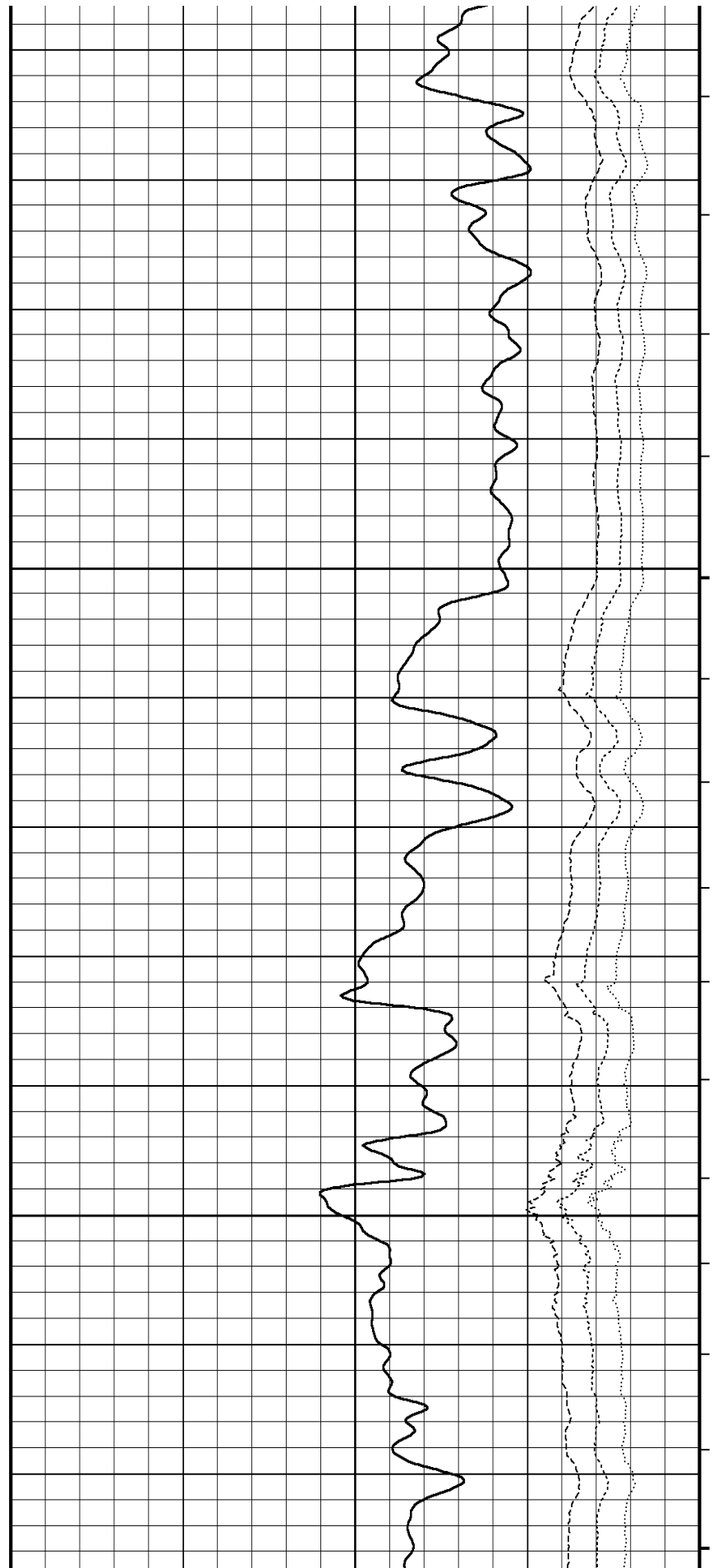
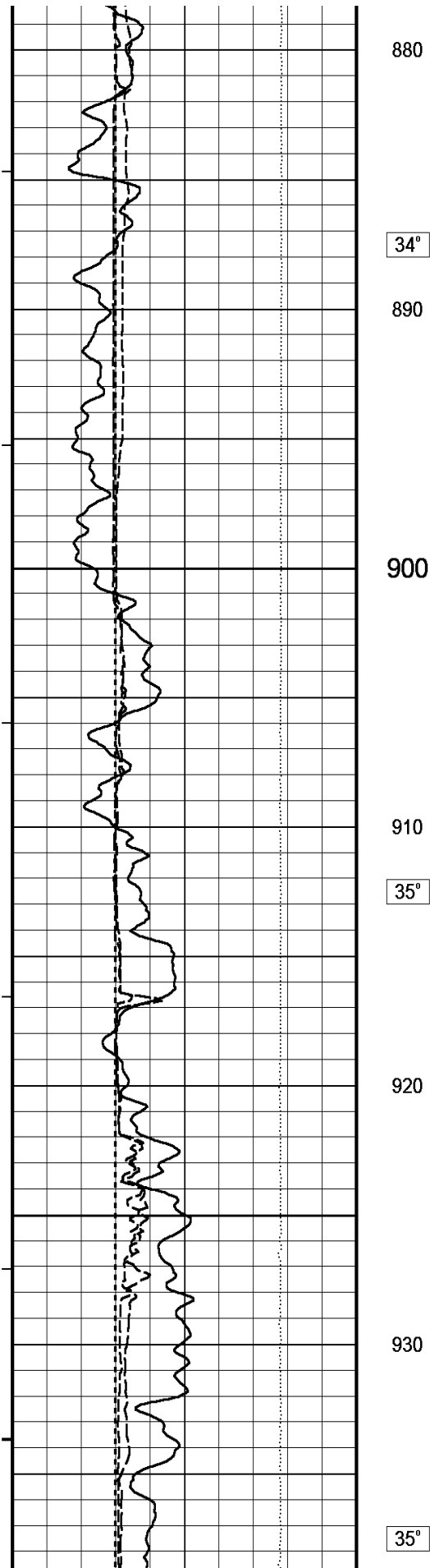


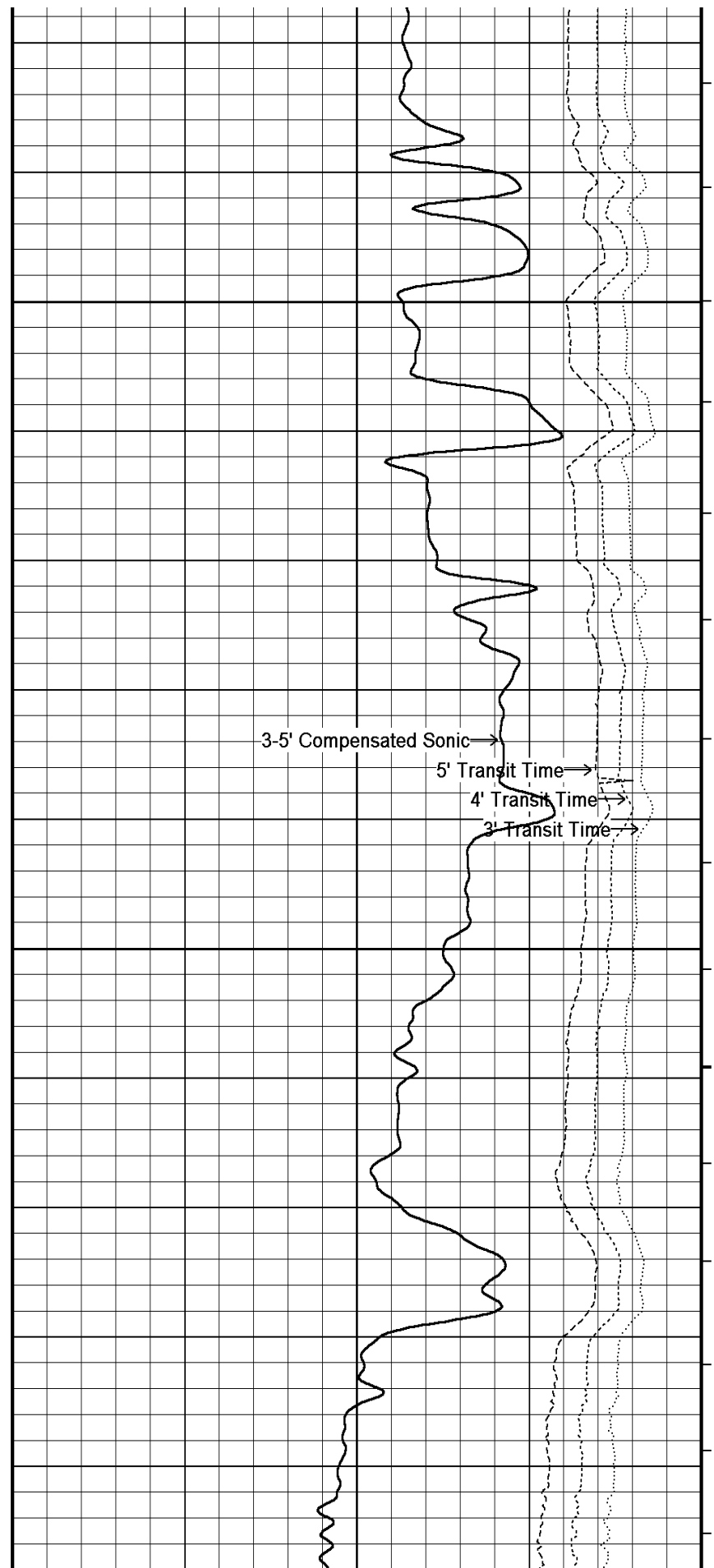
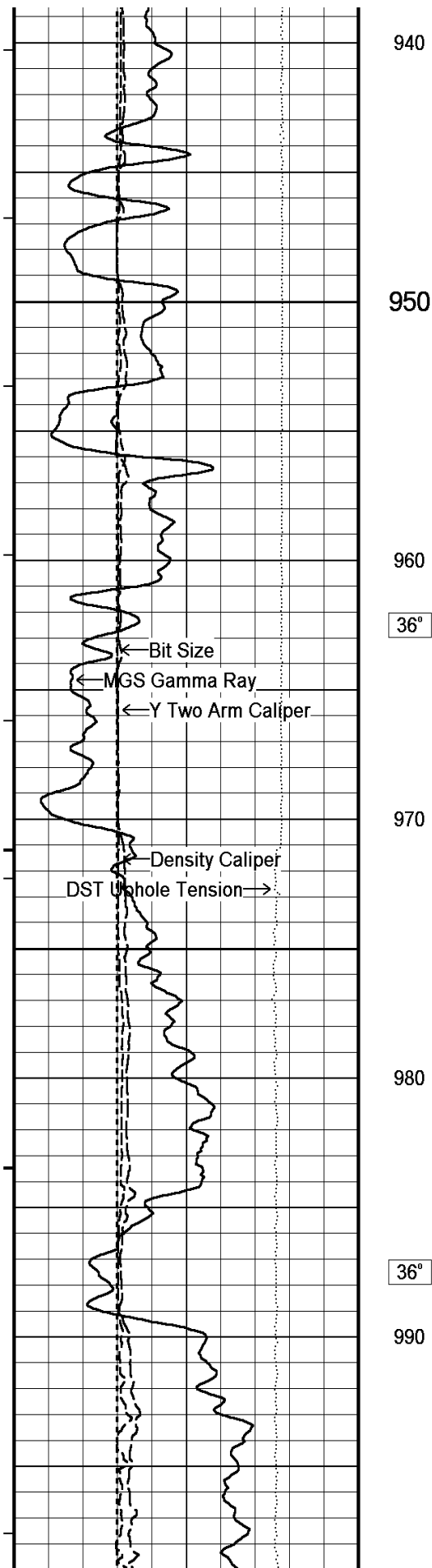
3-5' Compensated Sonic

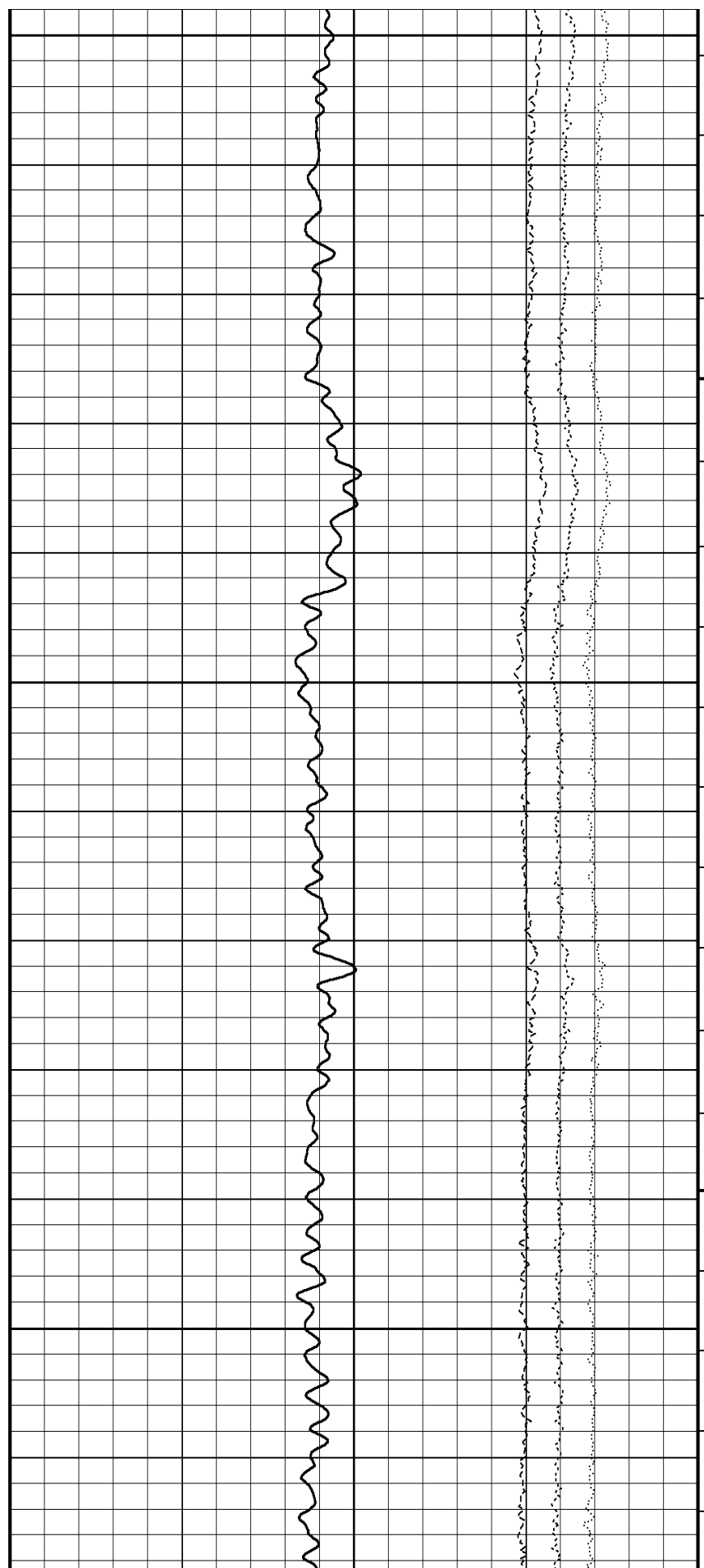
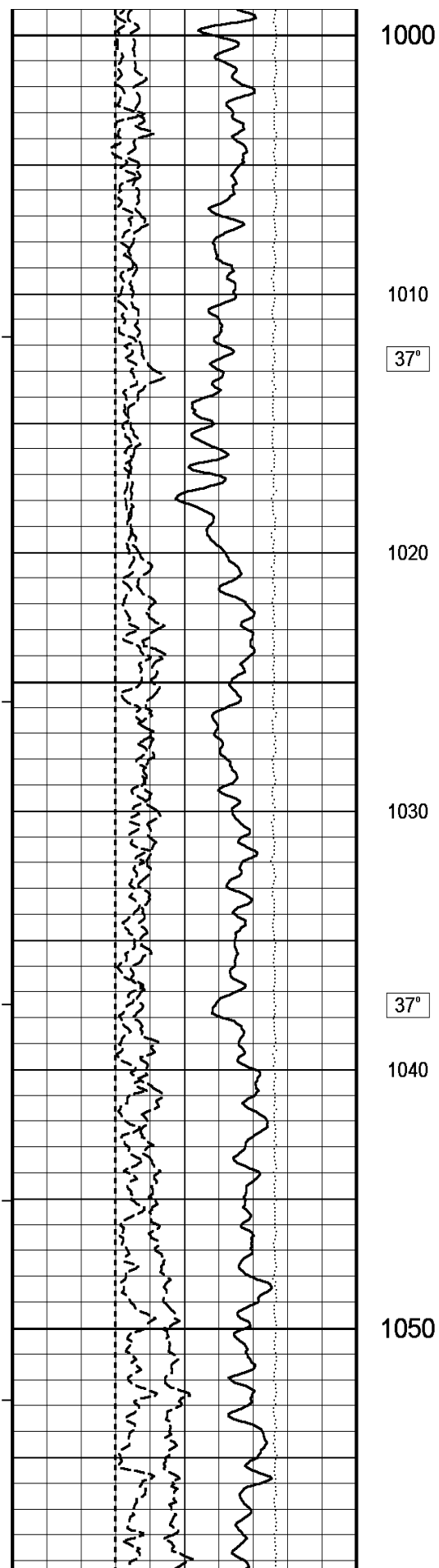
5' Transit Time

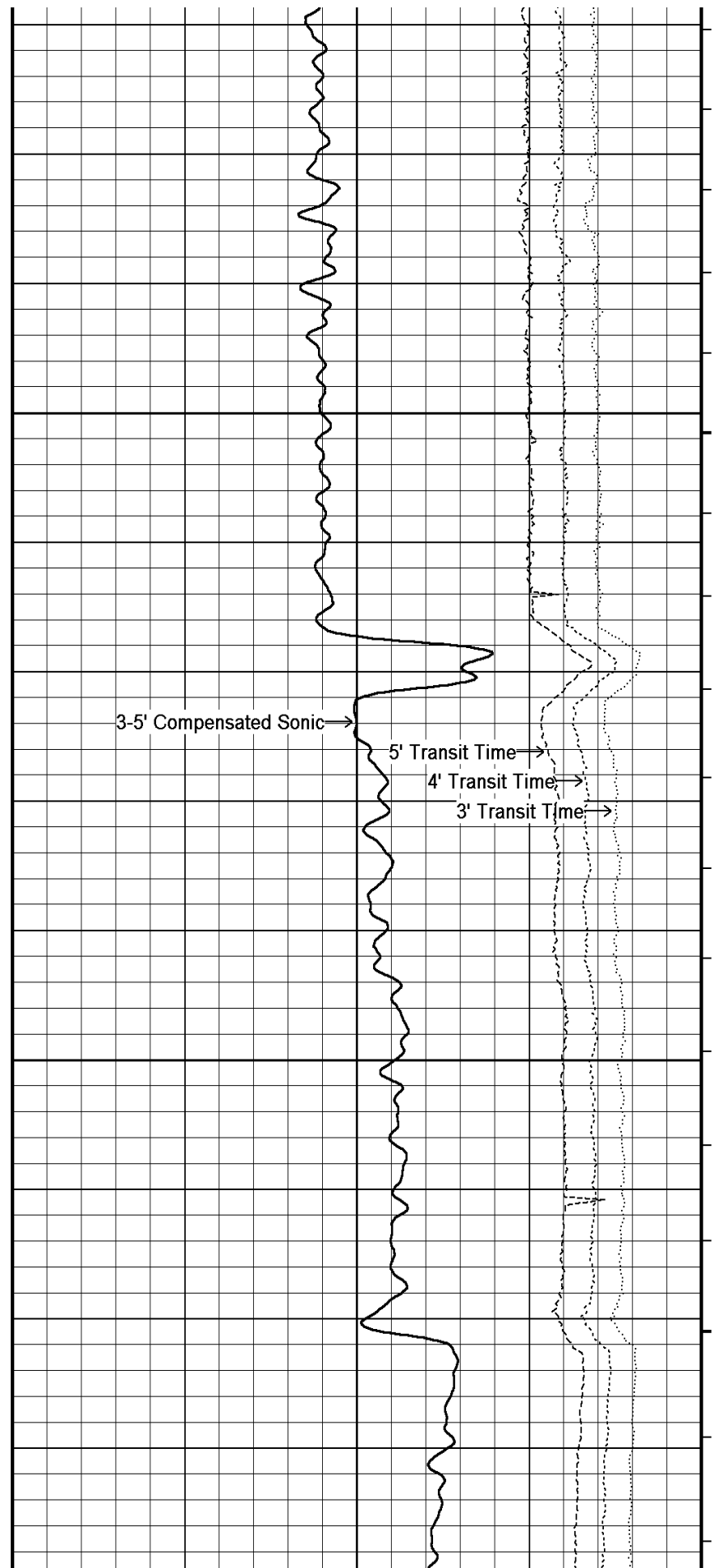
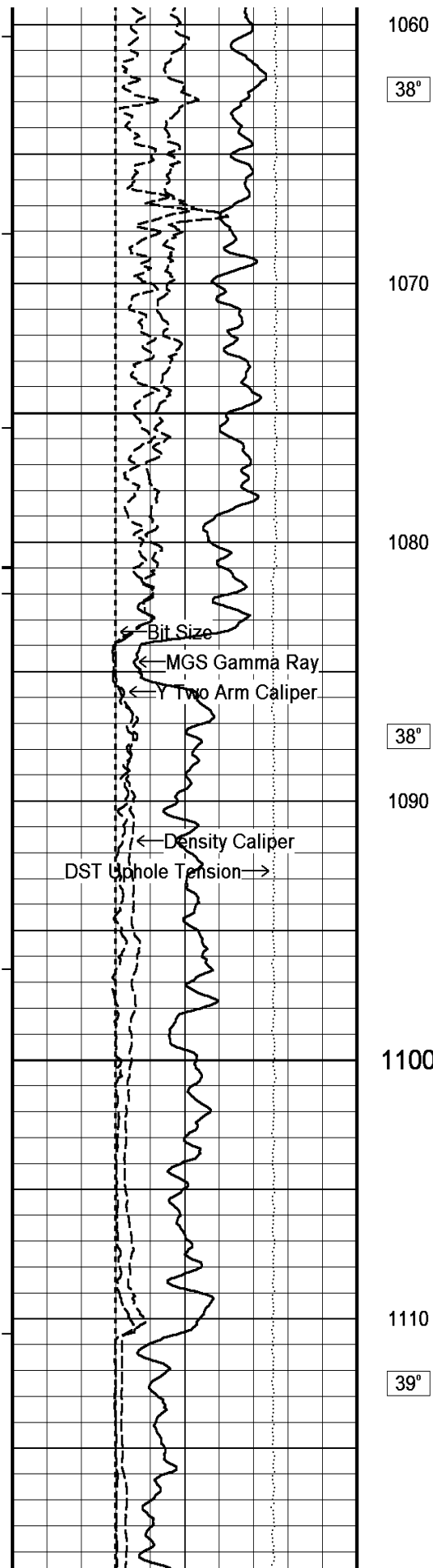
4' Transit Time

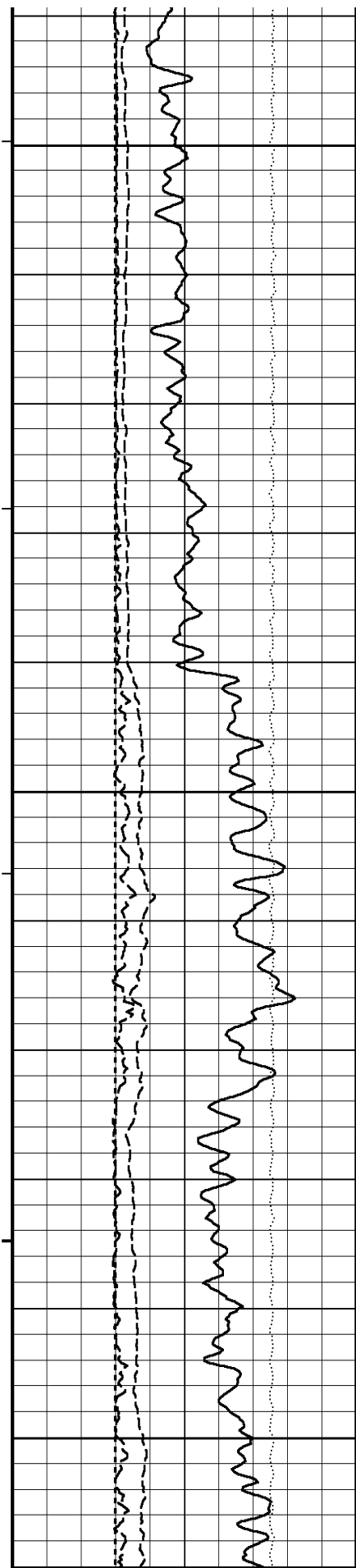
3' Transit Time











1120

1130

40°

1140

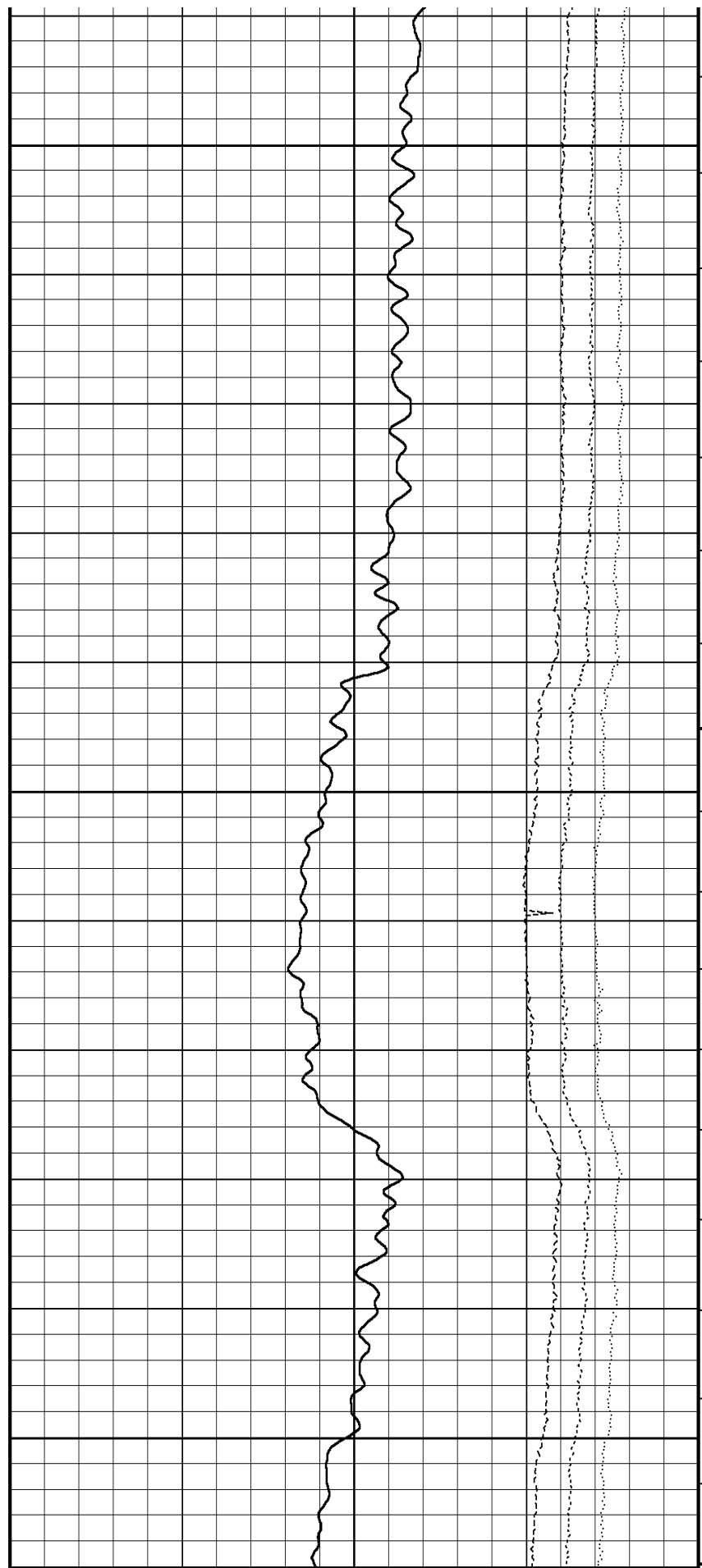
1150

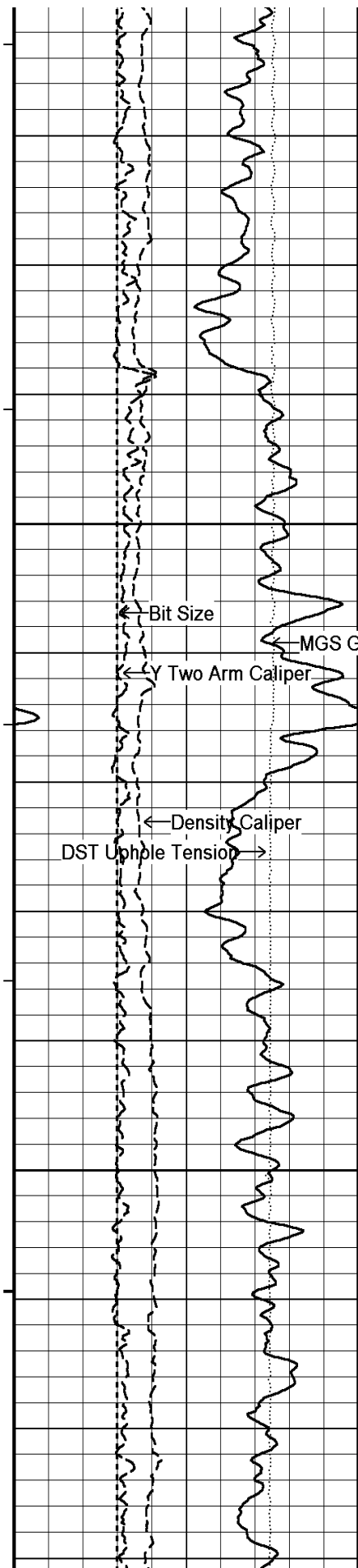
1160

40°

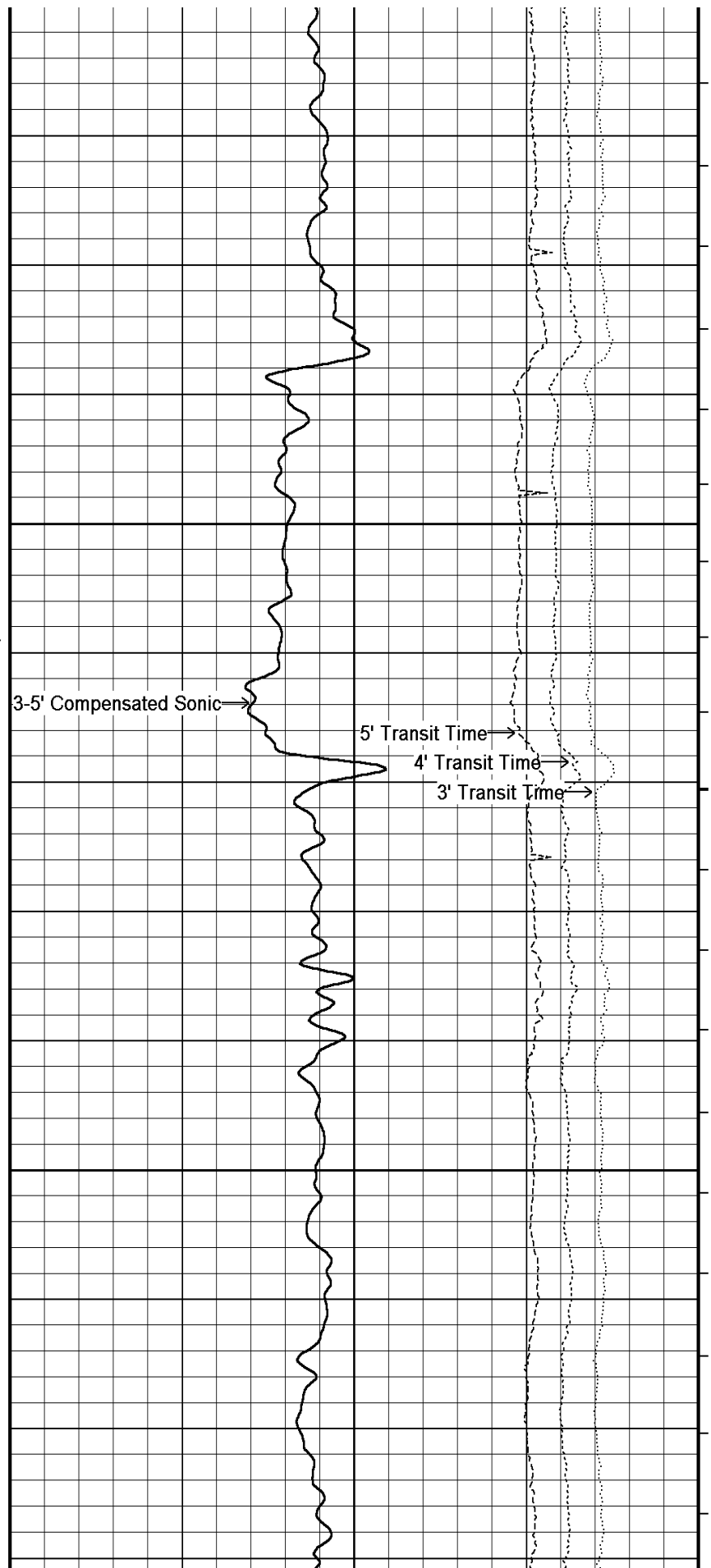
1170

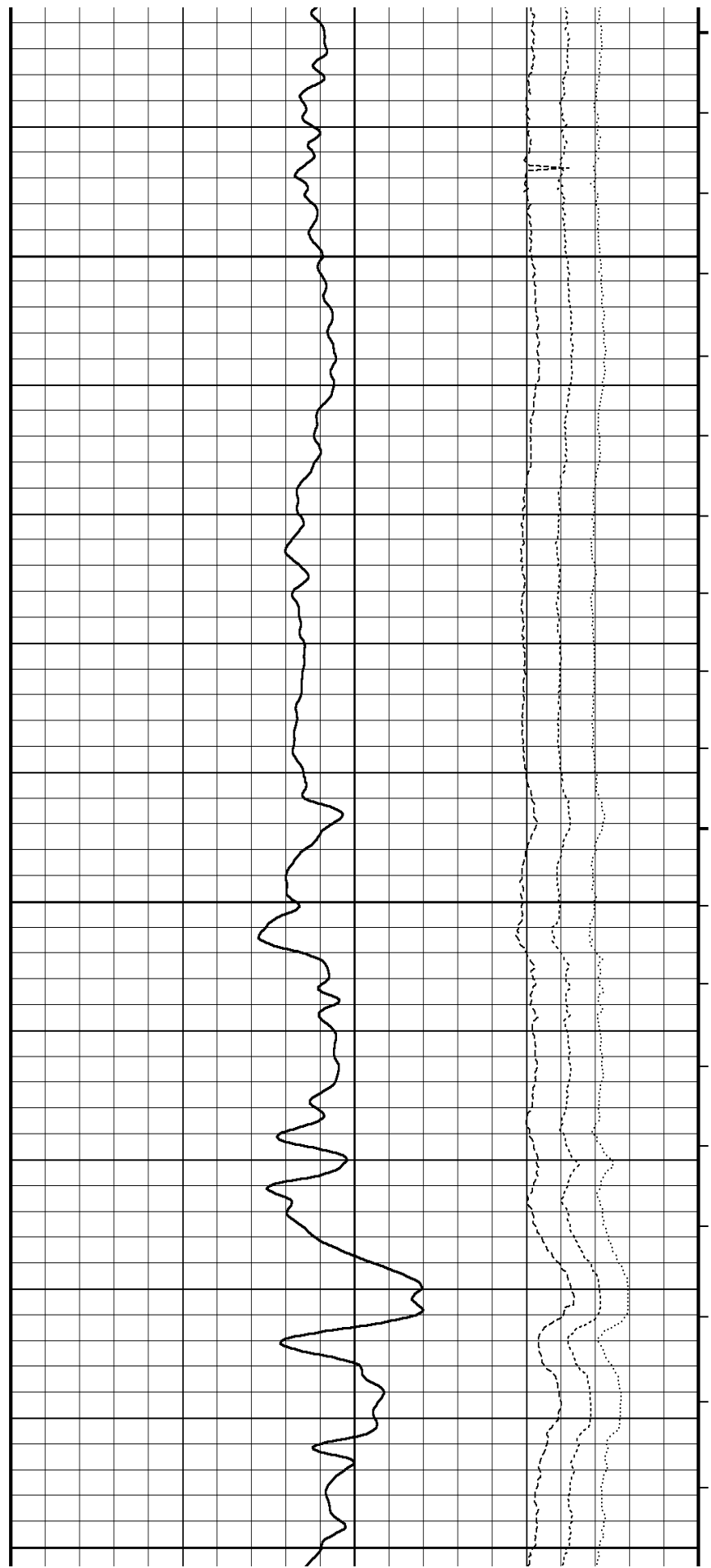
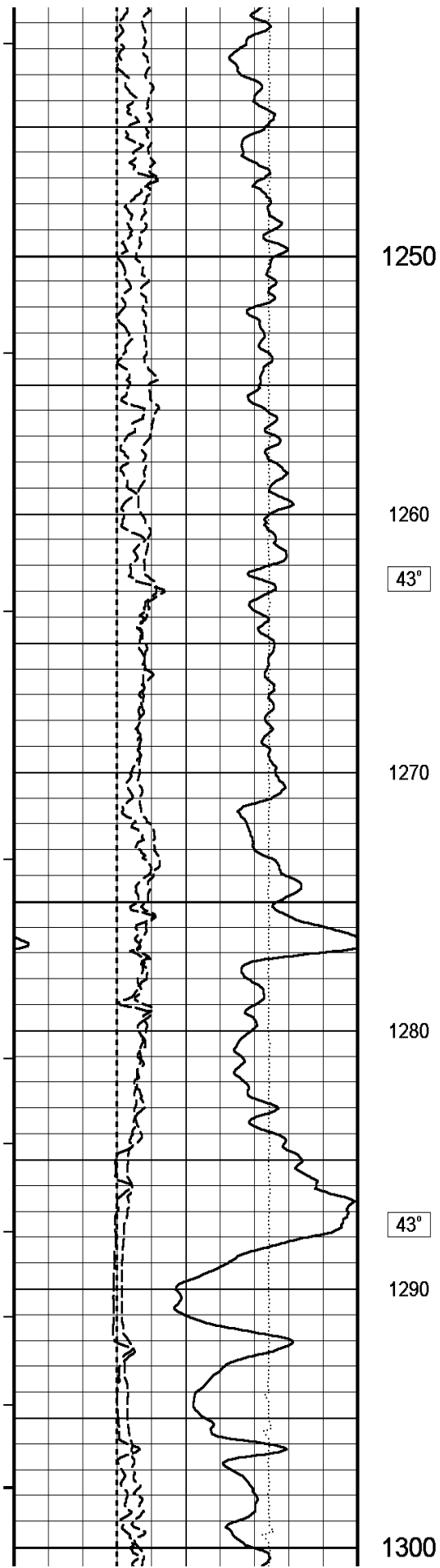
1180

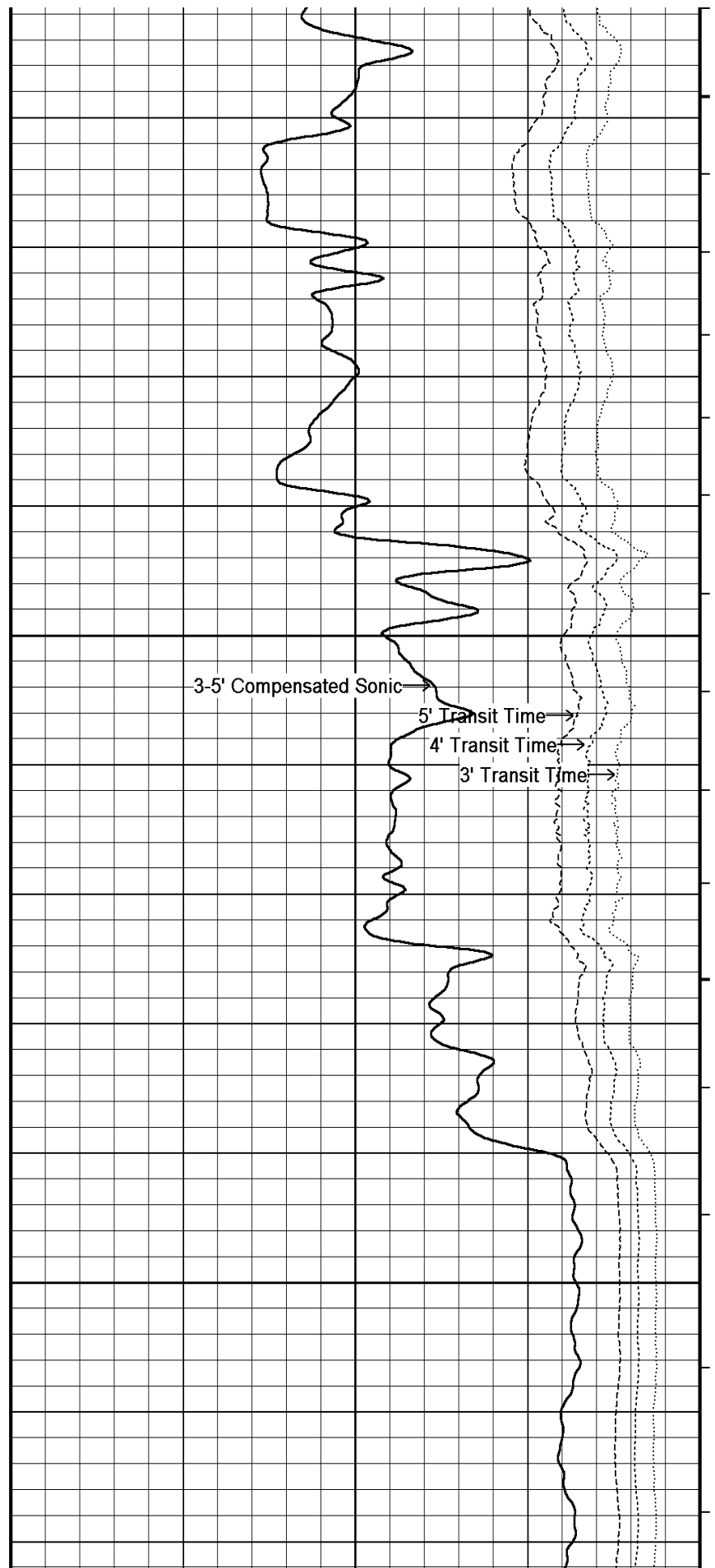
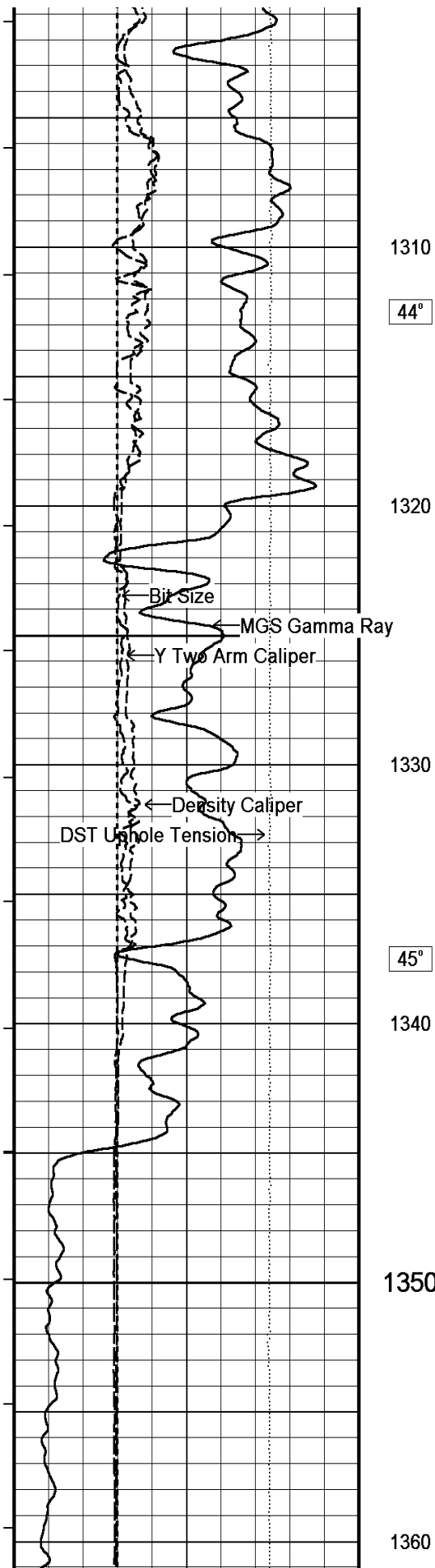


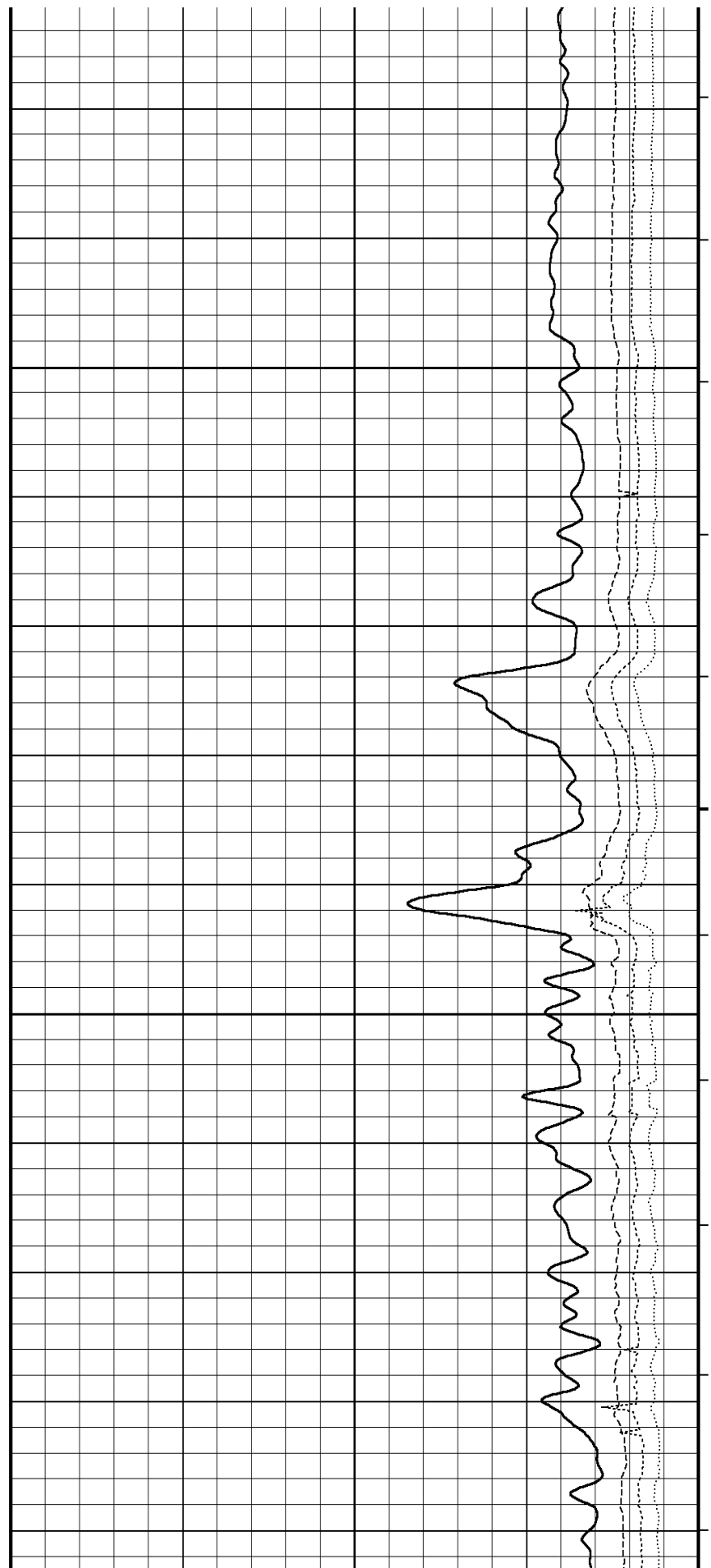
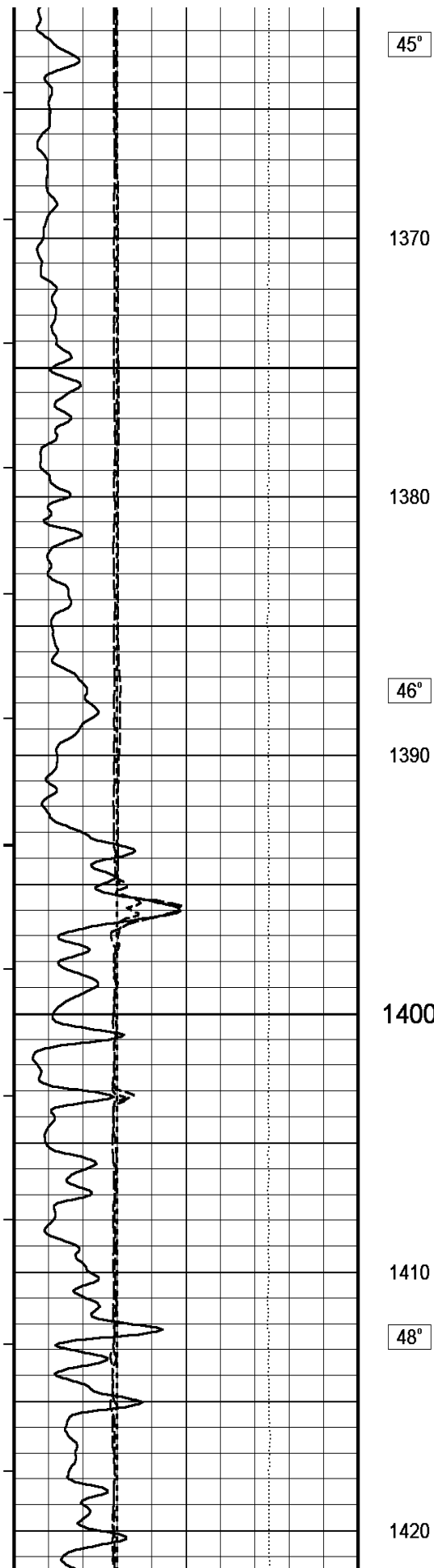


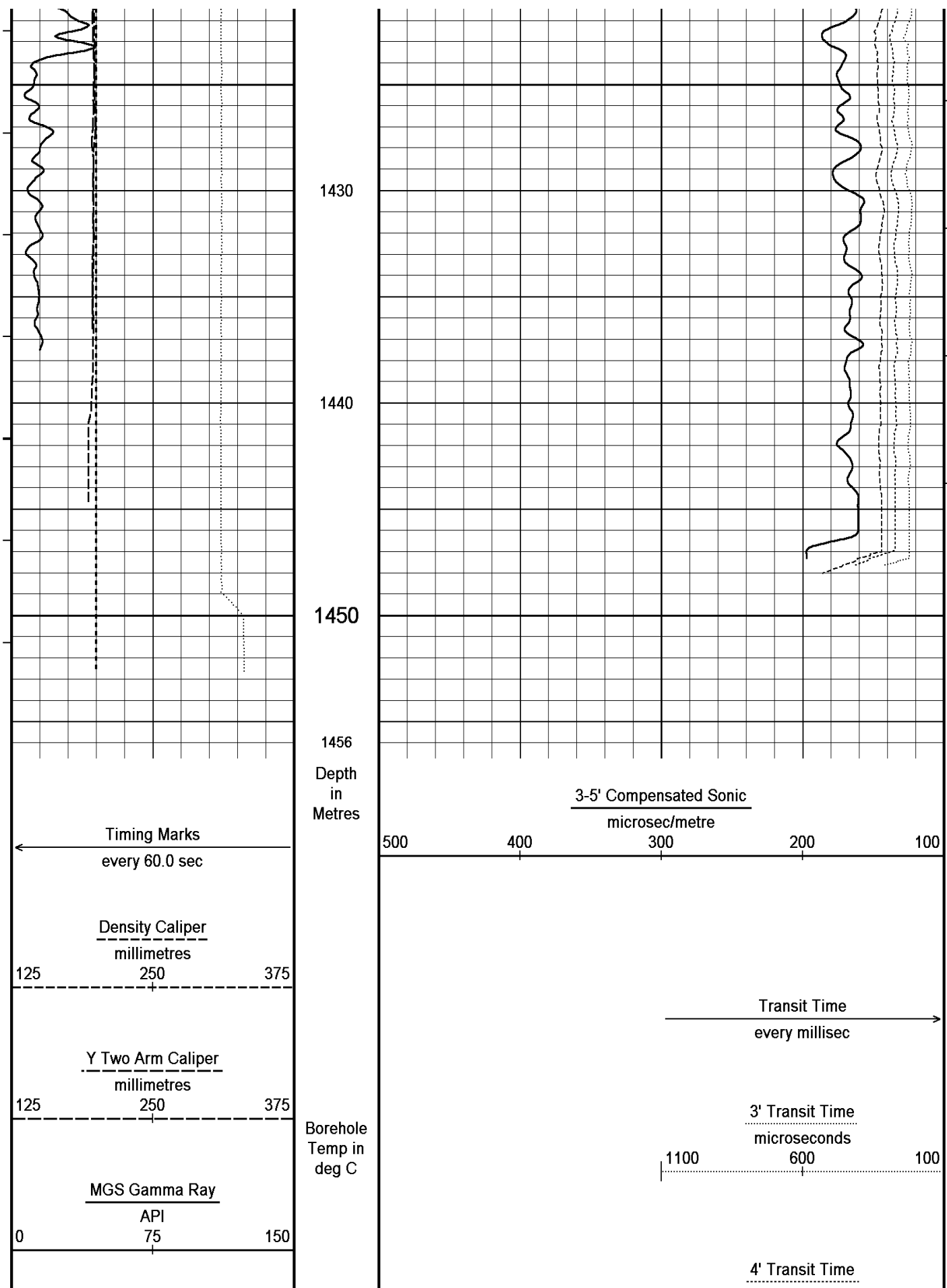
1180
41°
1190
1200
1210
41°
1220
1230
42°
1240

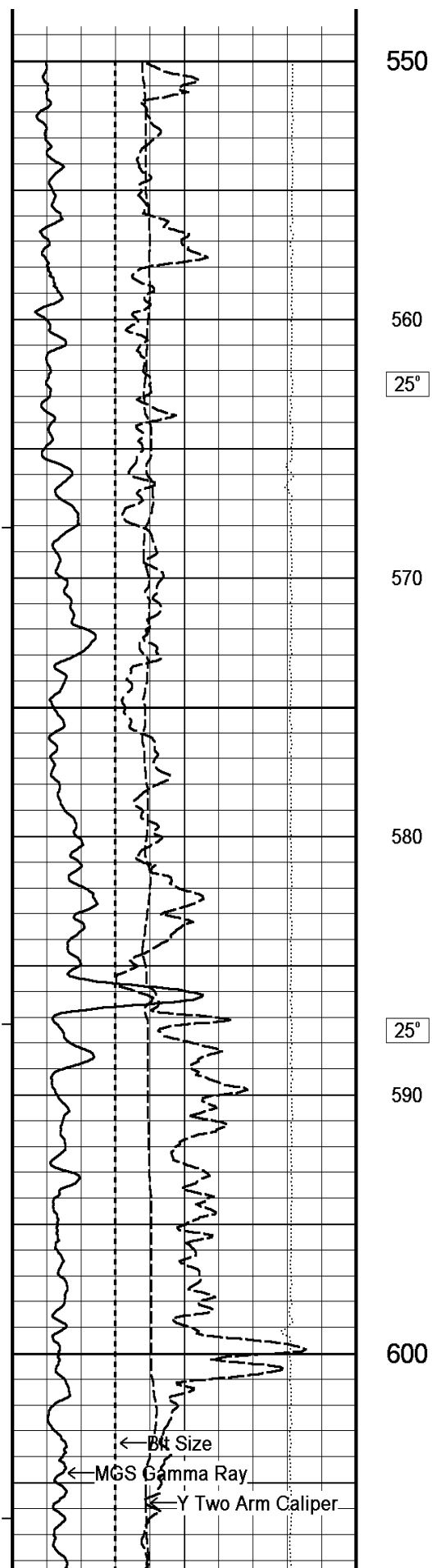












550

560

25°

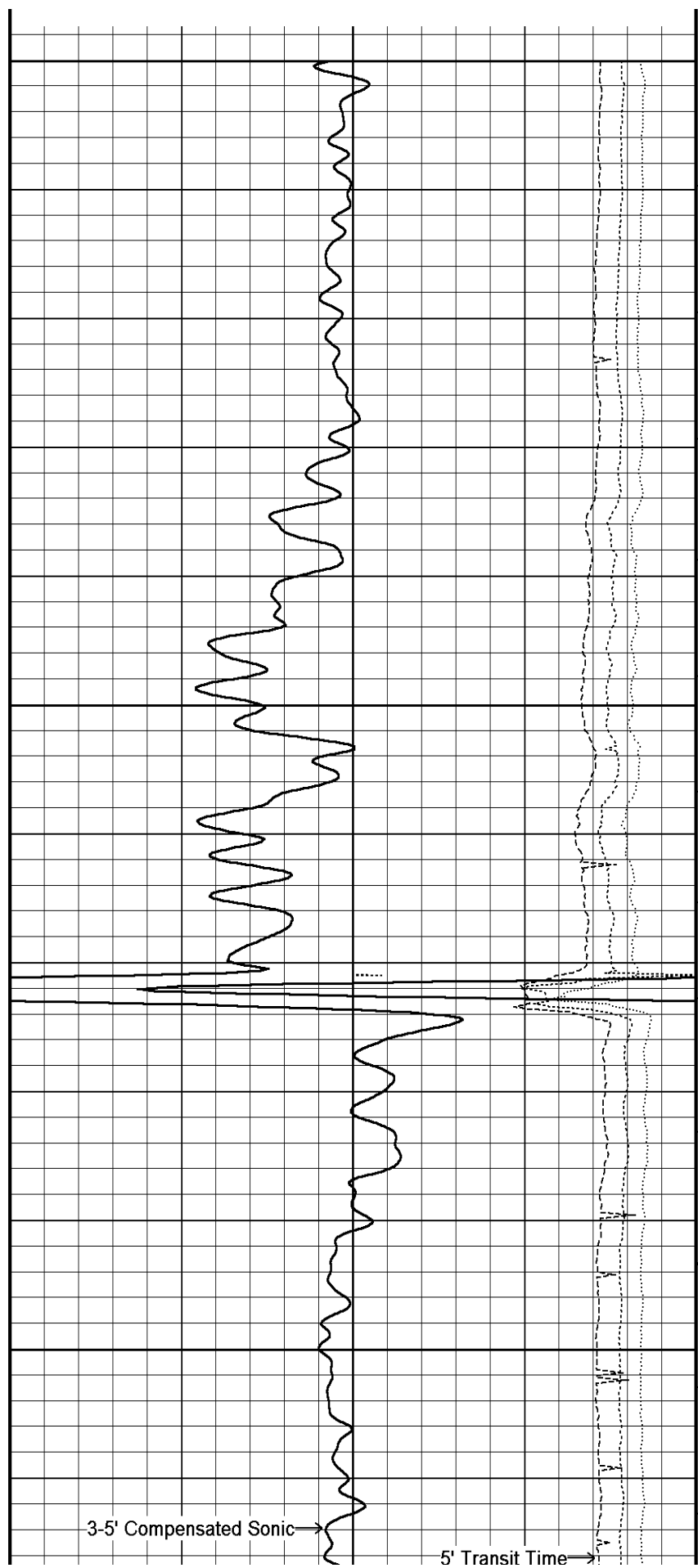
570

580

25°

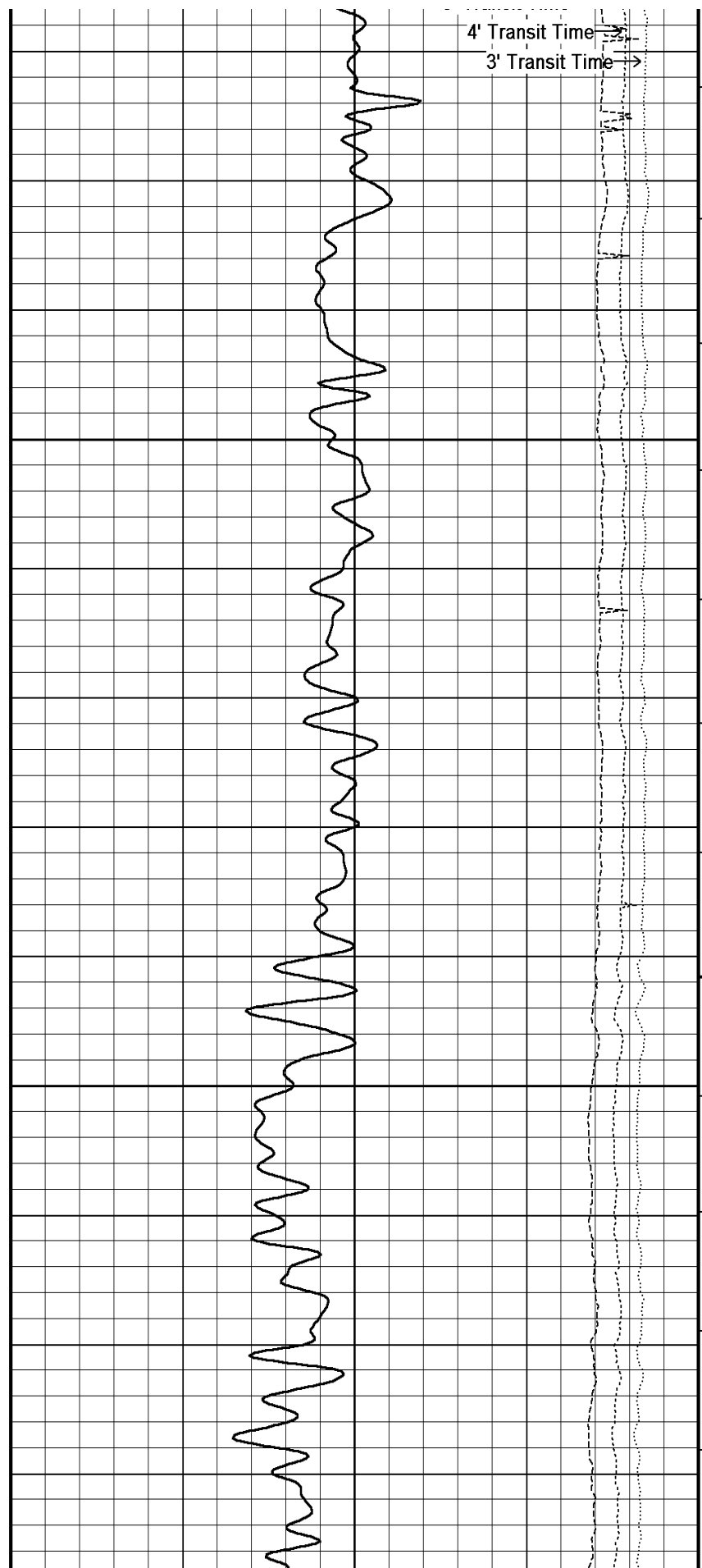
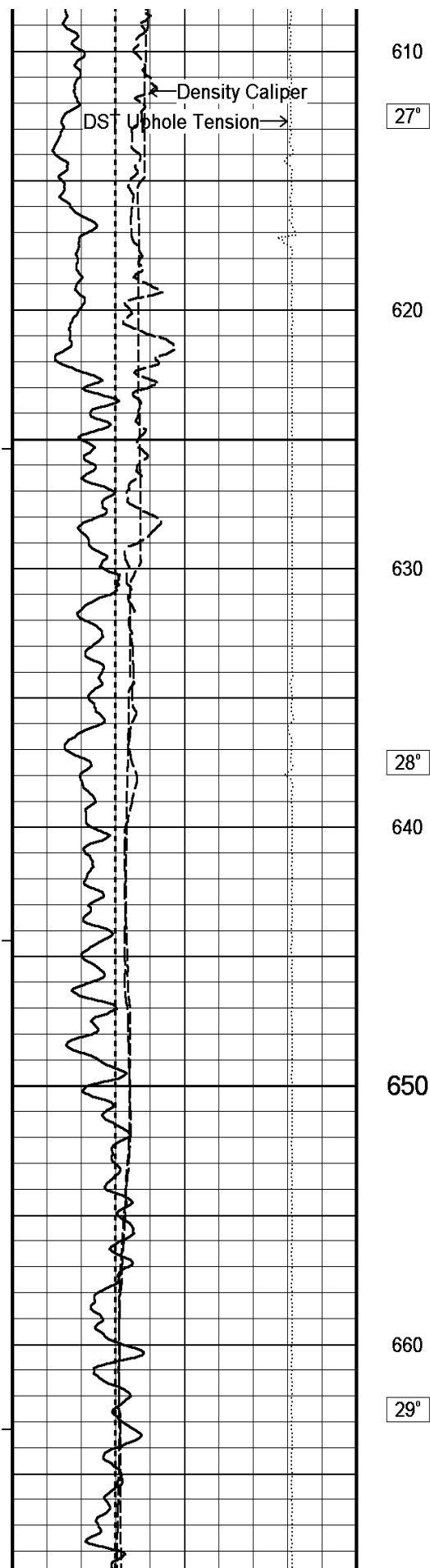
590

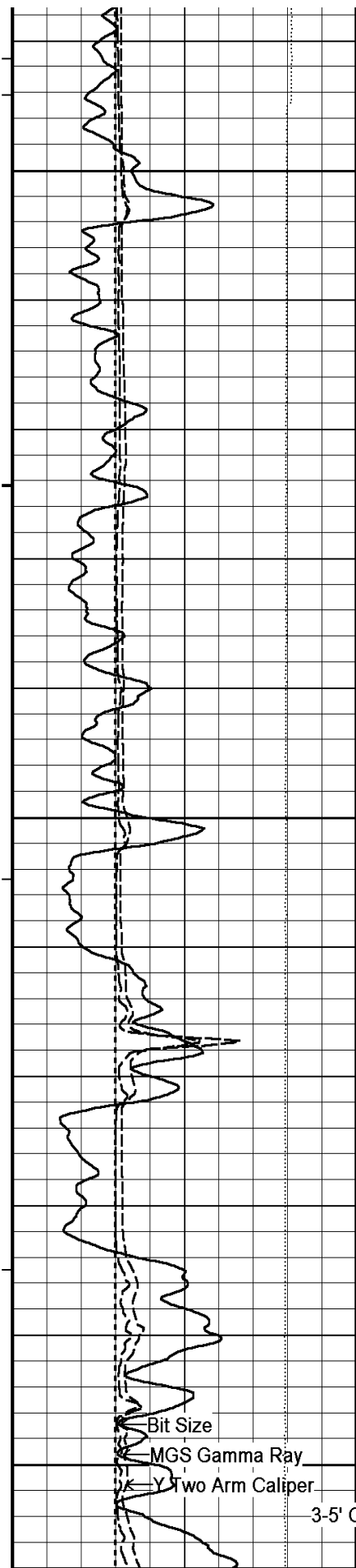
600



3-5' Compensated Sonic

5' Transit Time





670

680

29°

690

700

710

30°

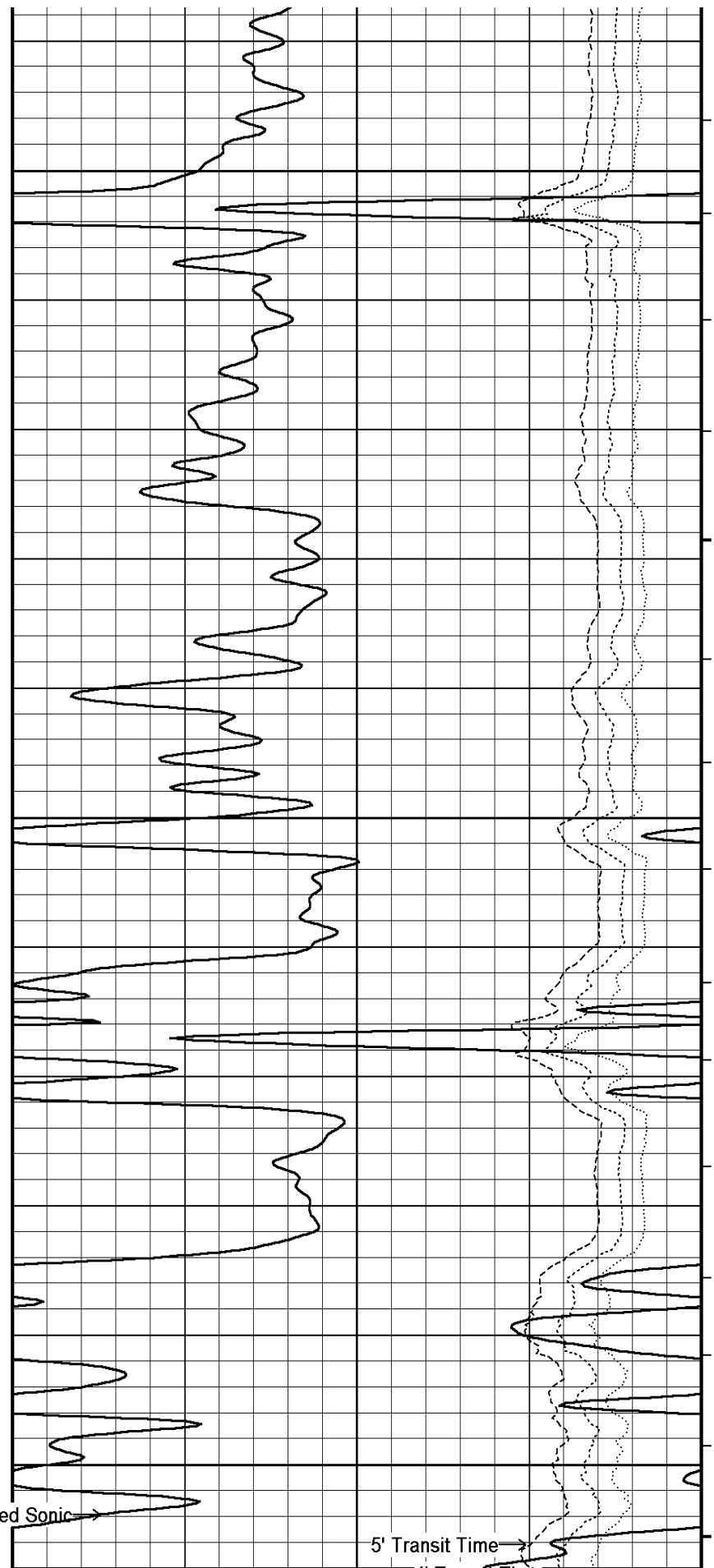
720

Bit Size

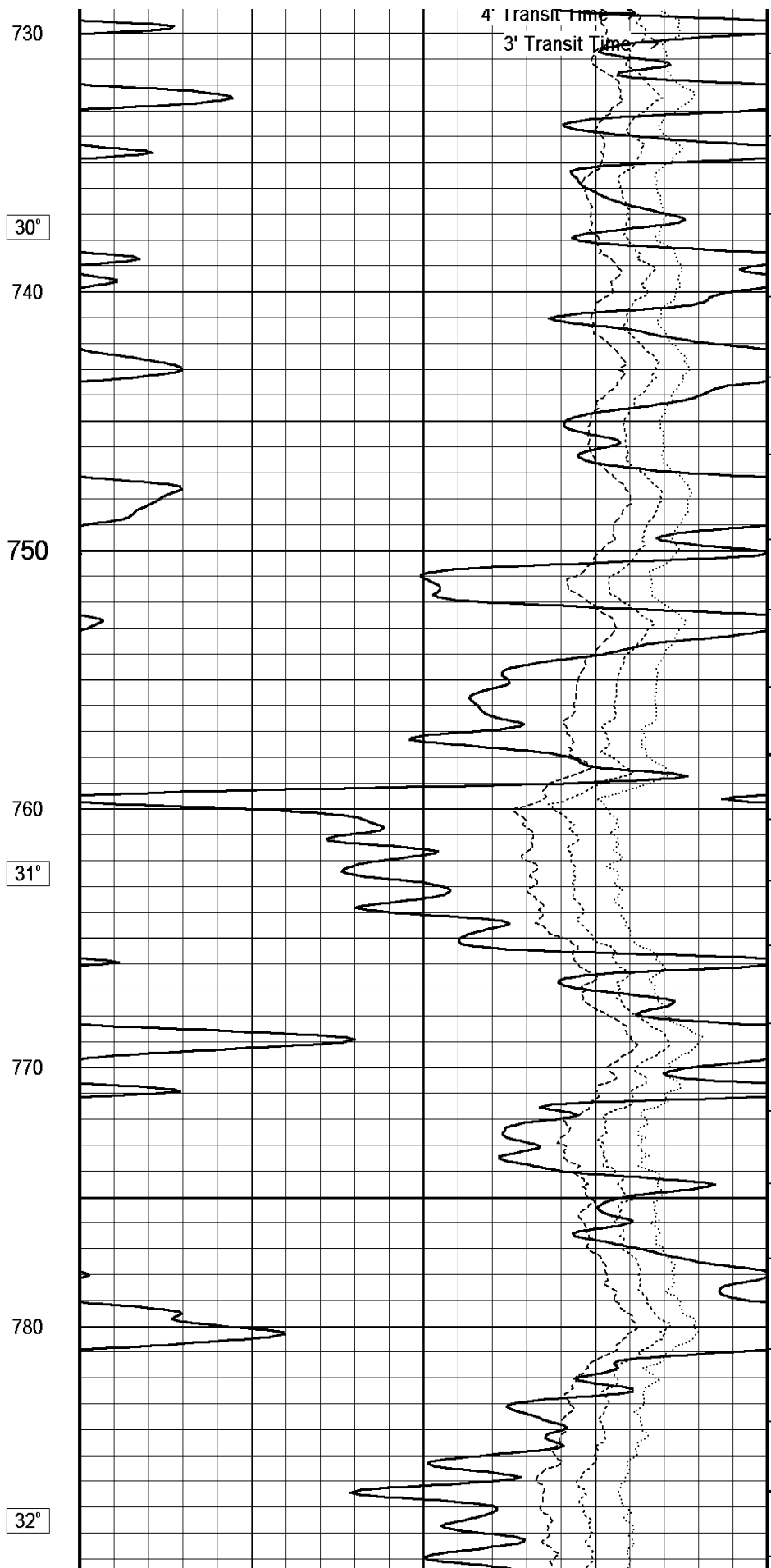
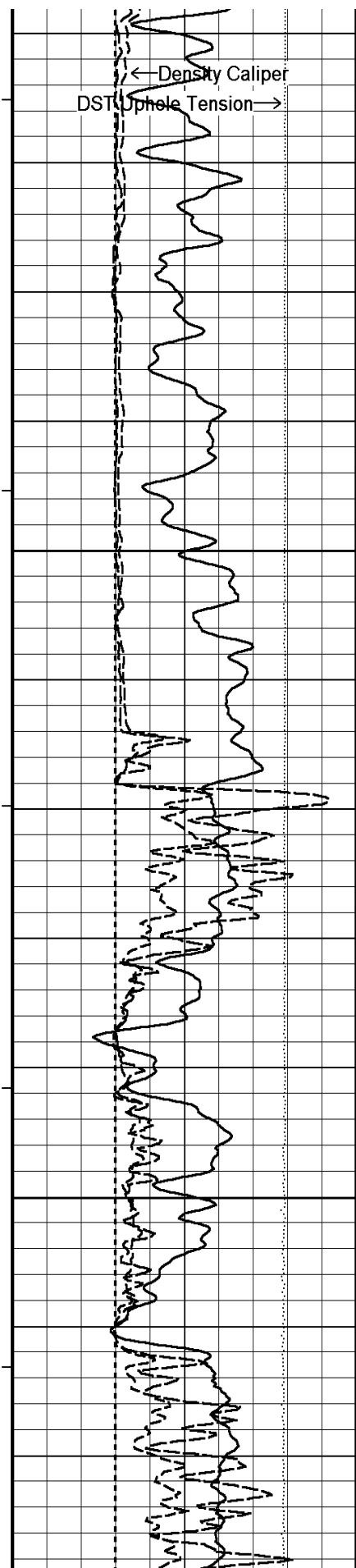
MGS Gamma Ray

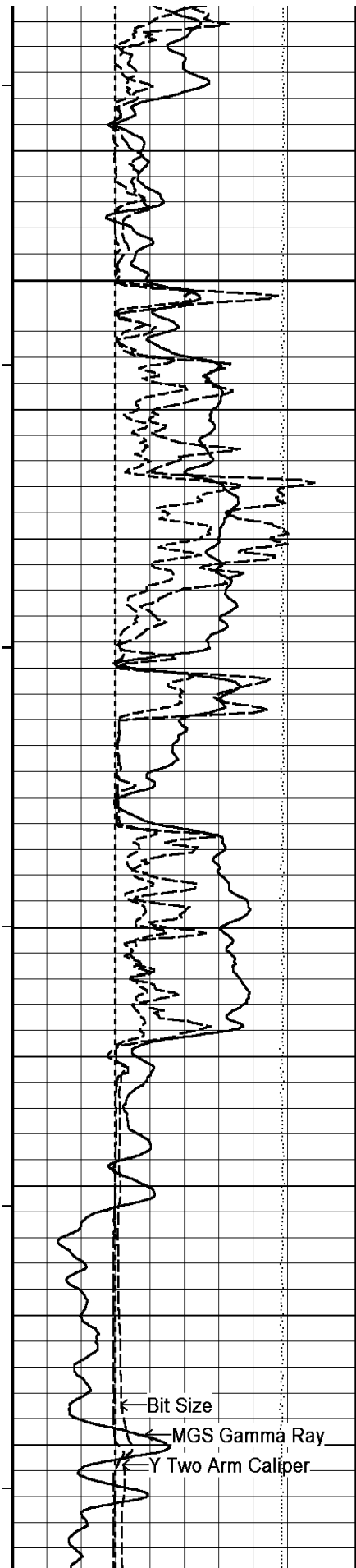
Y Two Arm Caliper

3-5' Compensated Sonic →



5' Transit Time →





790

800

810

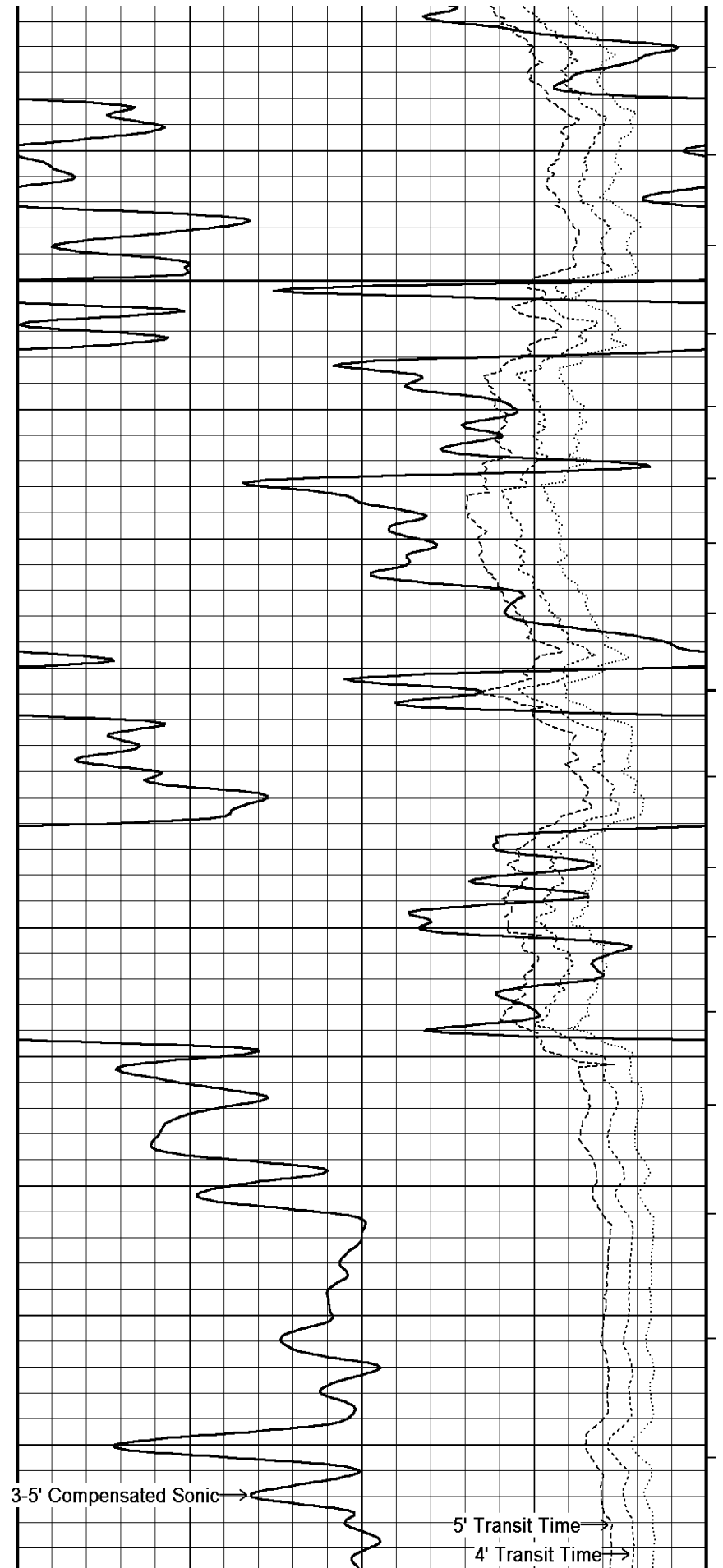
33°

820

830

33°

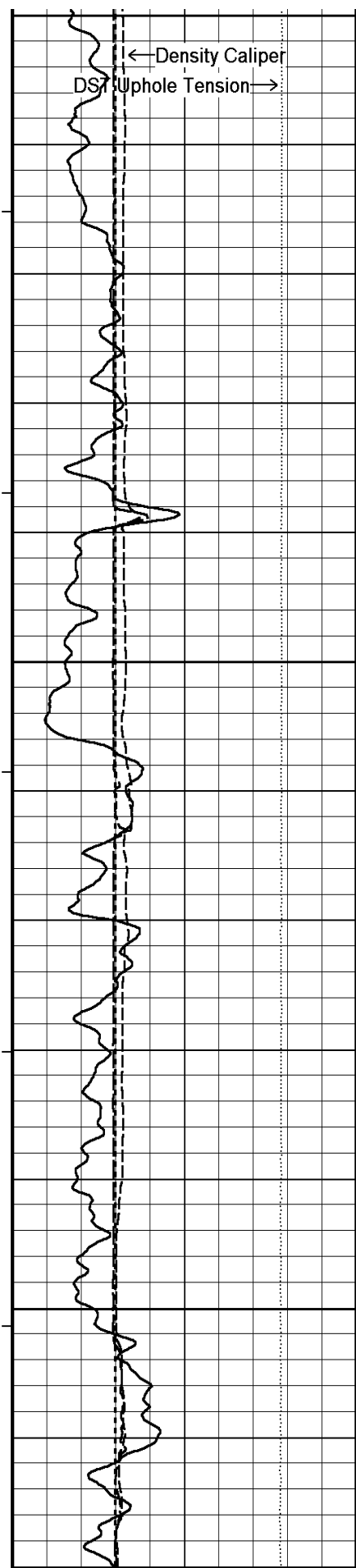
840



3-5' Compensated Sonic →

5' Transit Time →

4' Transit Time →



850

860

34°

870

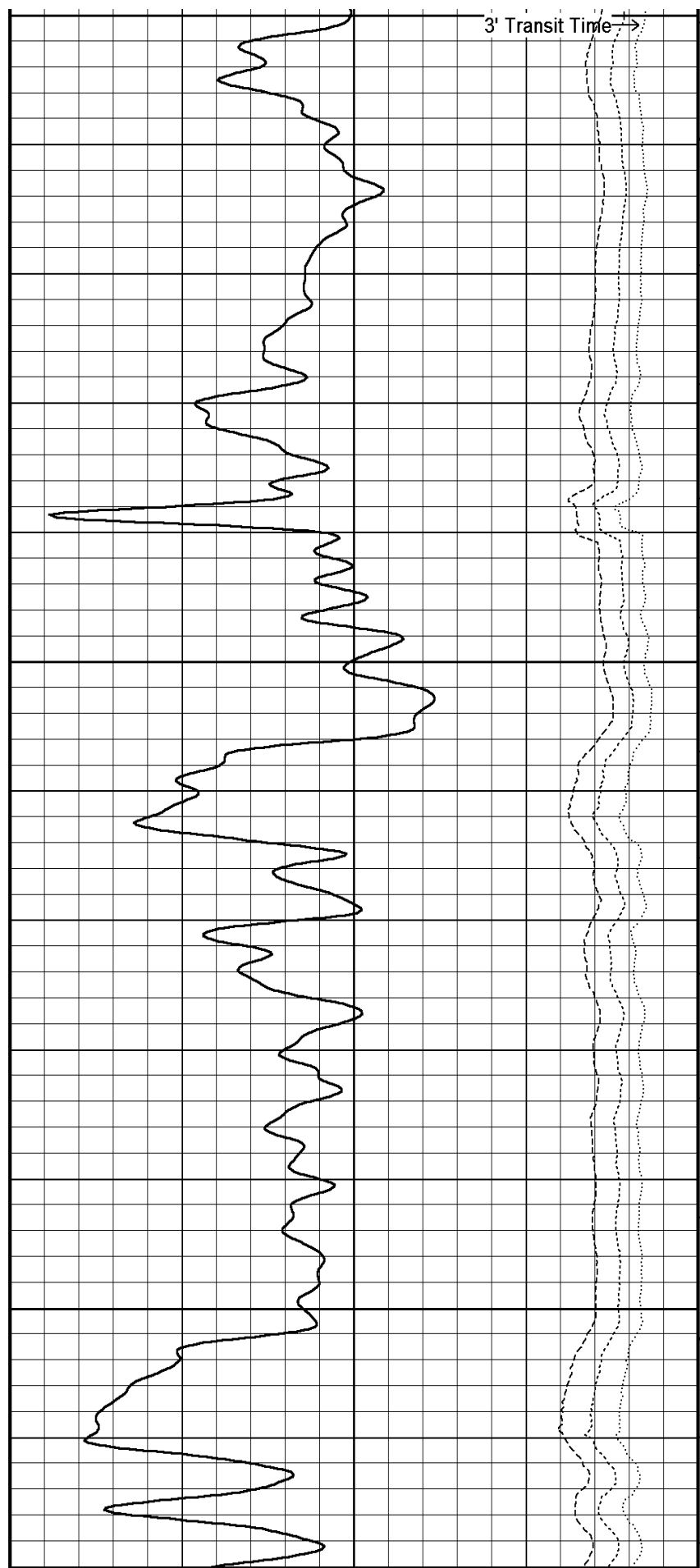
880

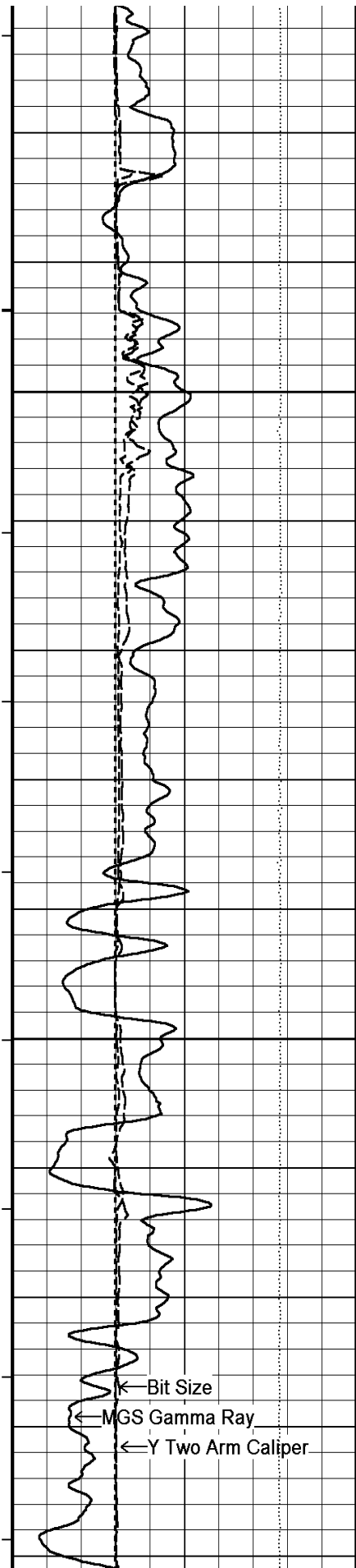
34°

890

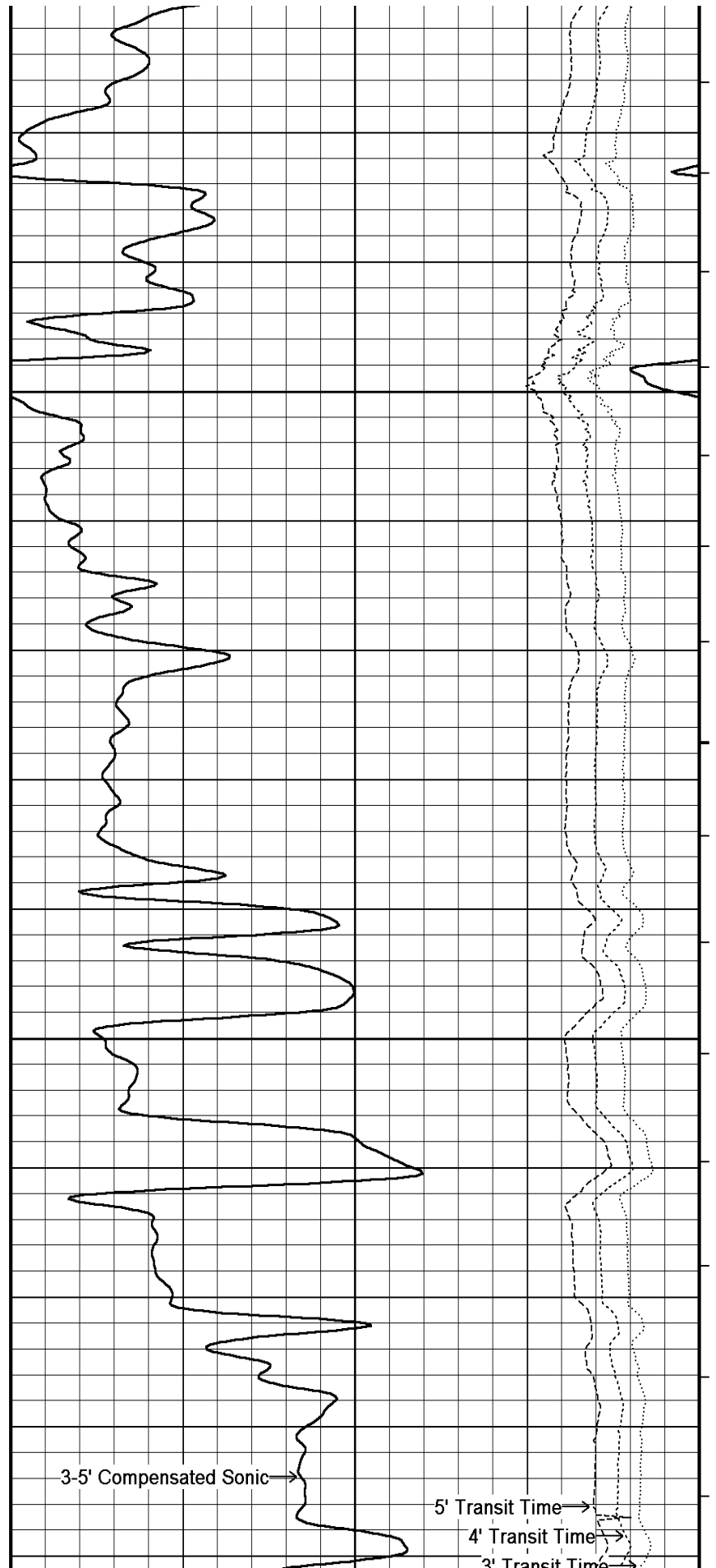
900

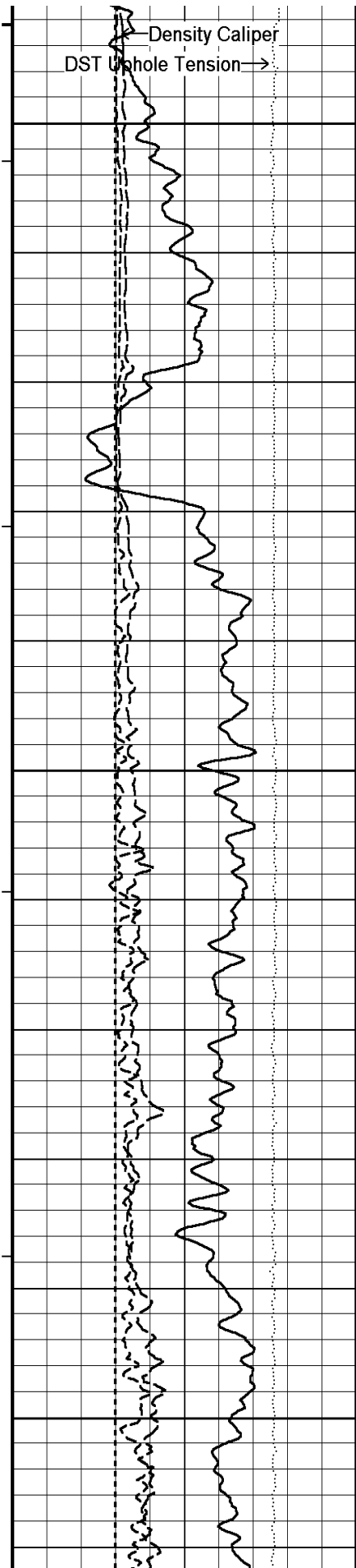
910





35° 920 930 35° 940 950 960 36° 970





980

36°

990

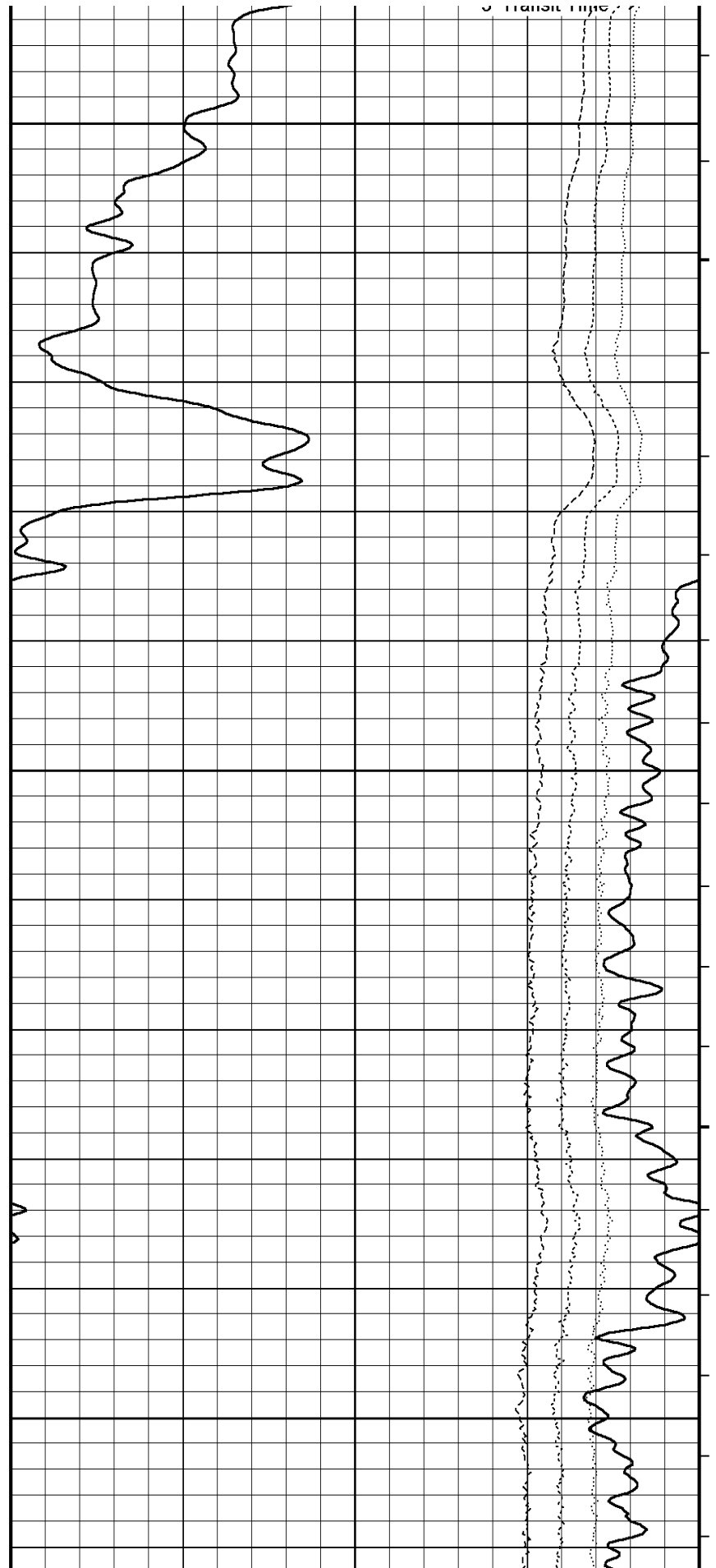
1000

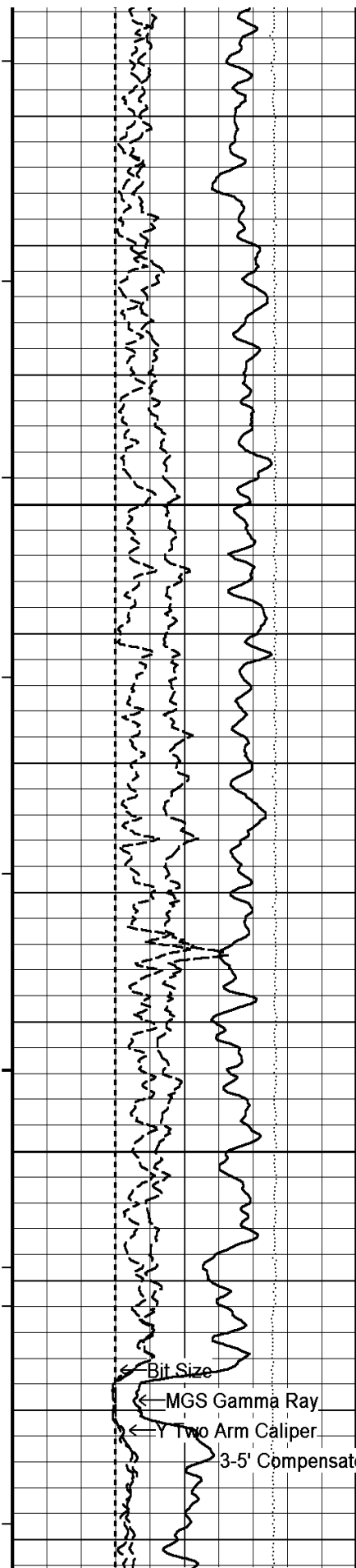
1010

37°

1020

1030





37°

1040

1050

1060

38°

1070

1080

Bit Size

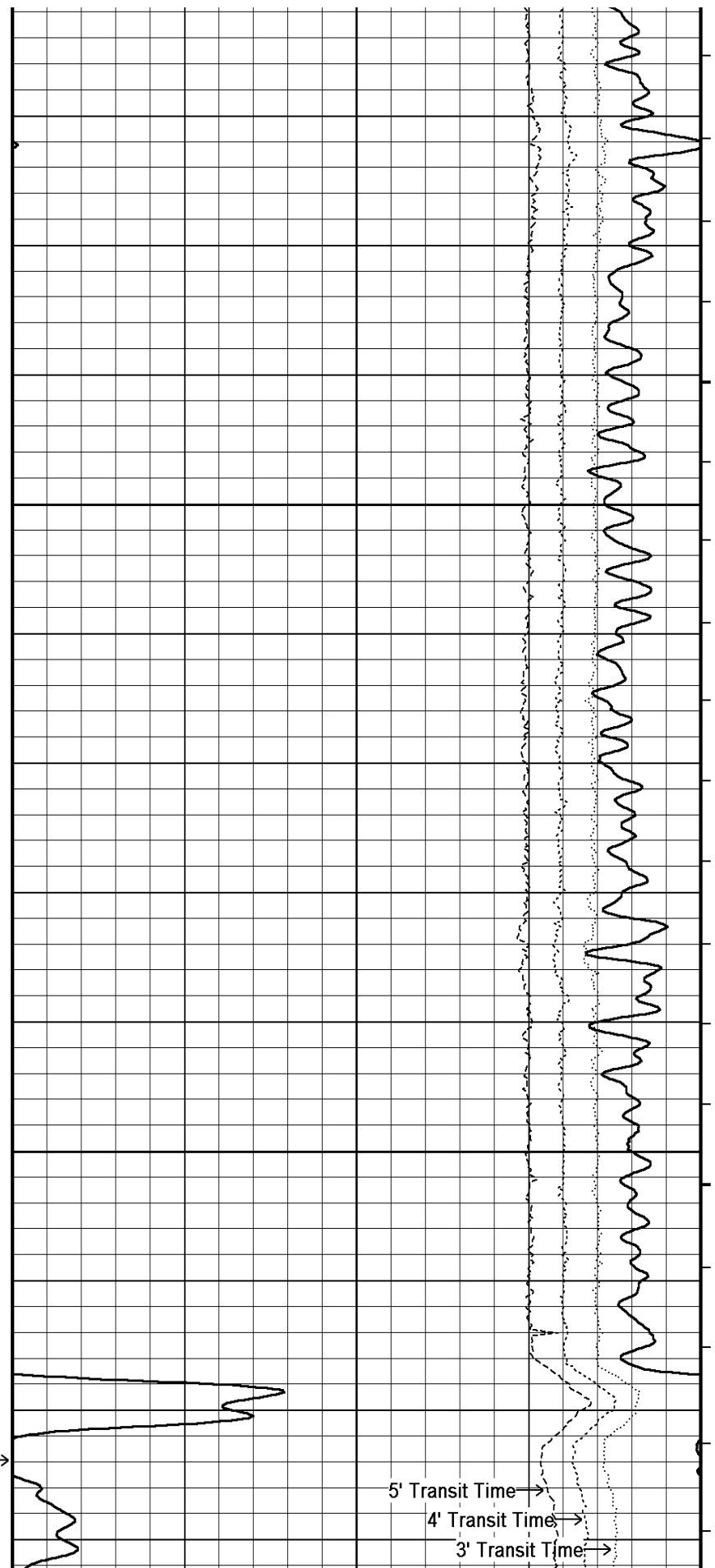
MGS Gamma Ray

Y Two Arm Caliper

3-5' Compensated Sonic

38°

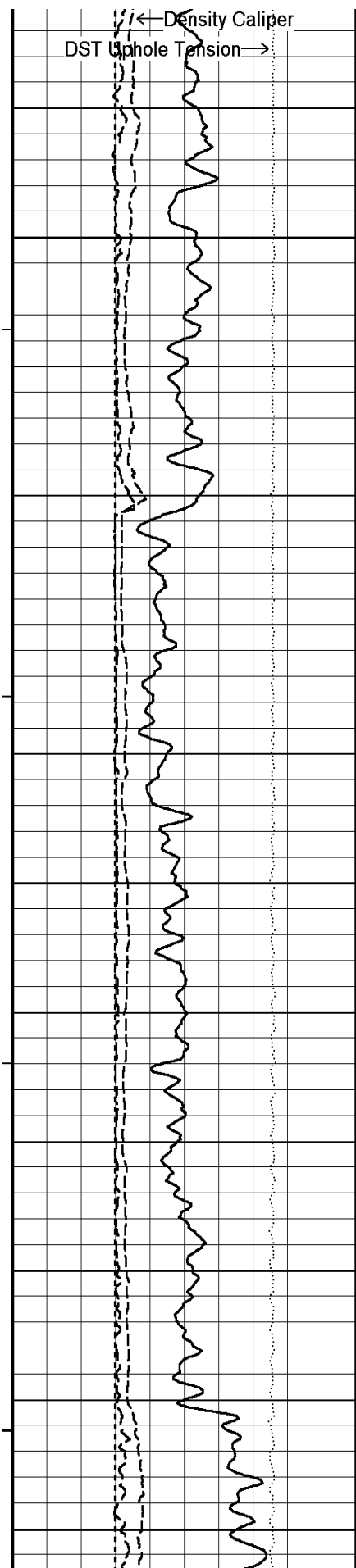
1090



5' Transit Time

4' Transit Time

3' Transit Time



1100

1110

39°

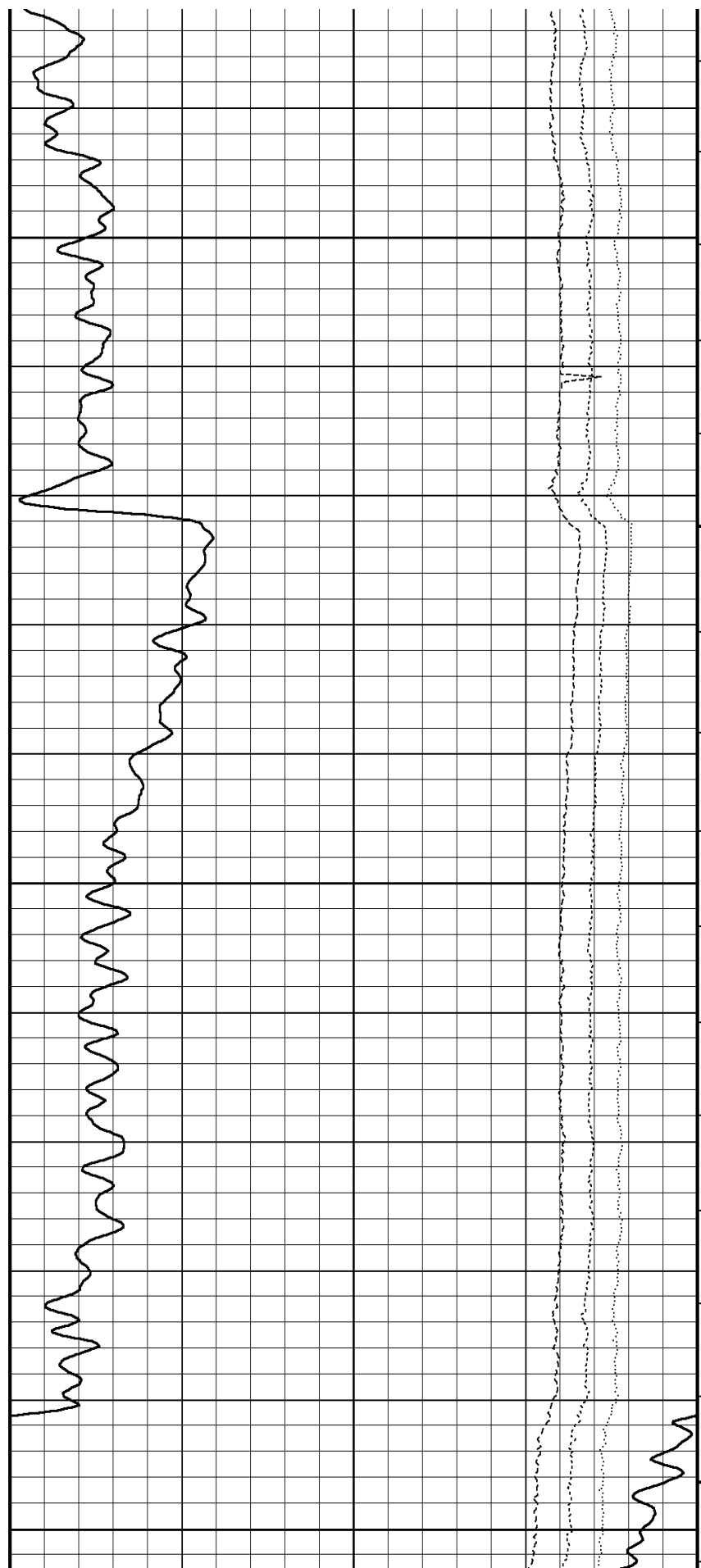
1120

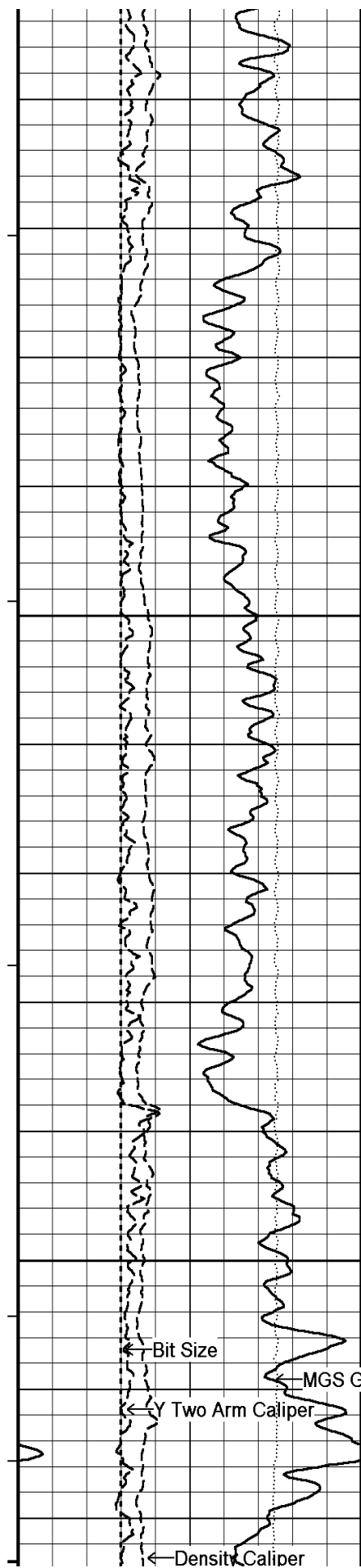
1130

40°

1140

1150





1160

40°

1170

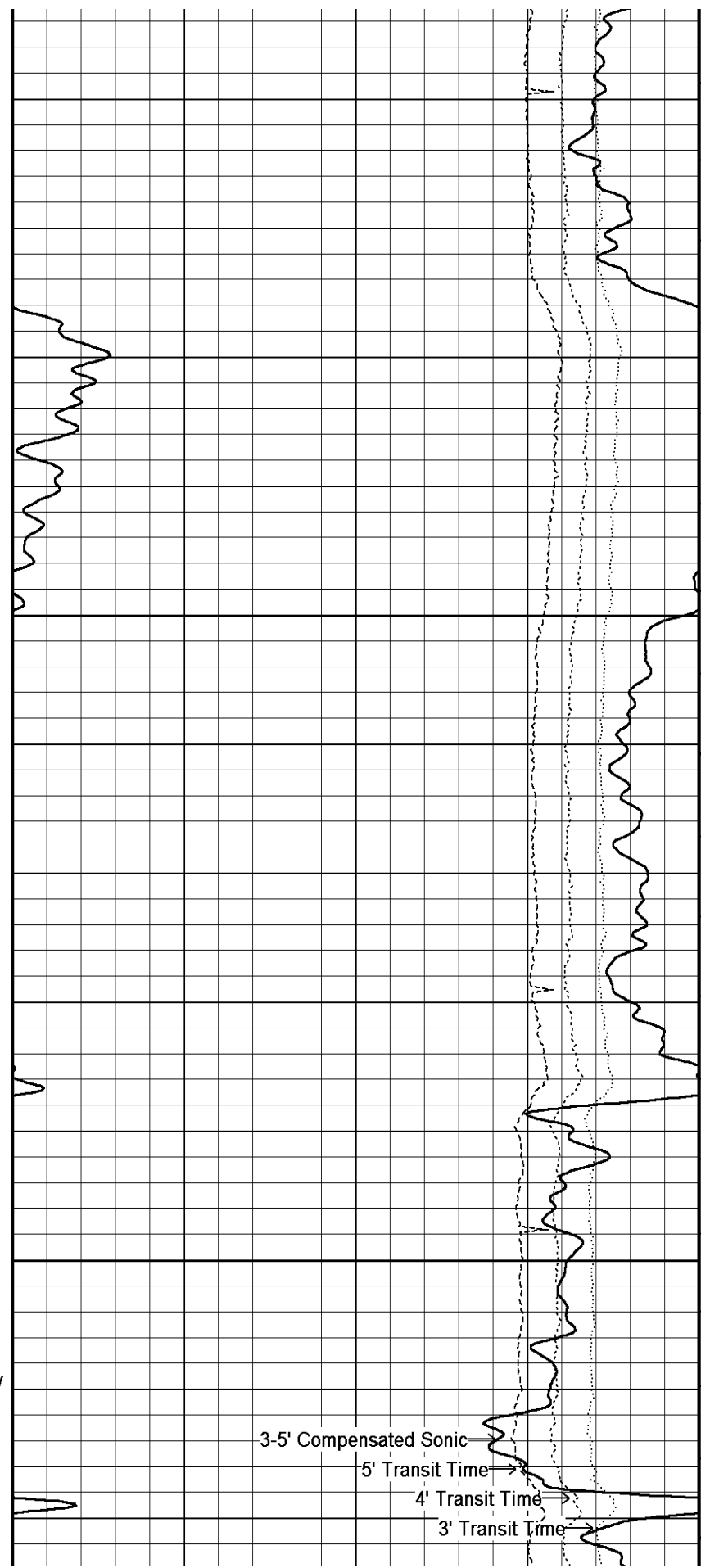
1180

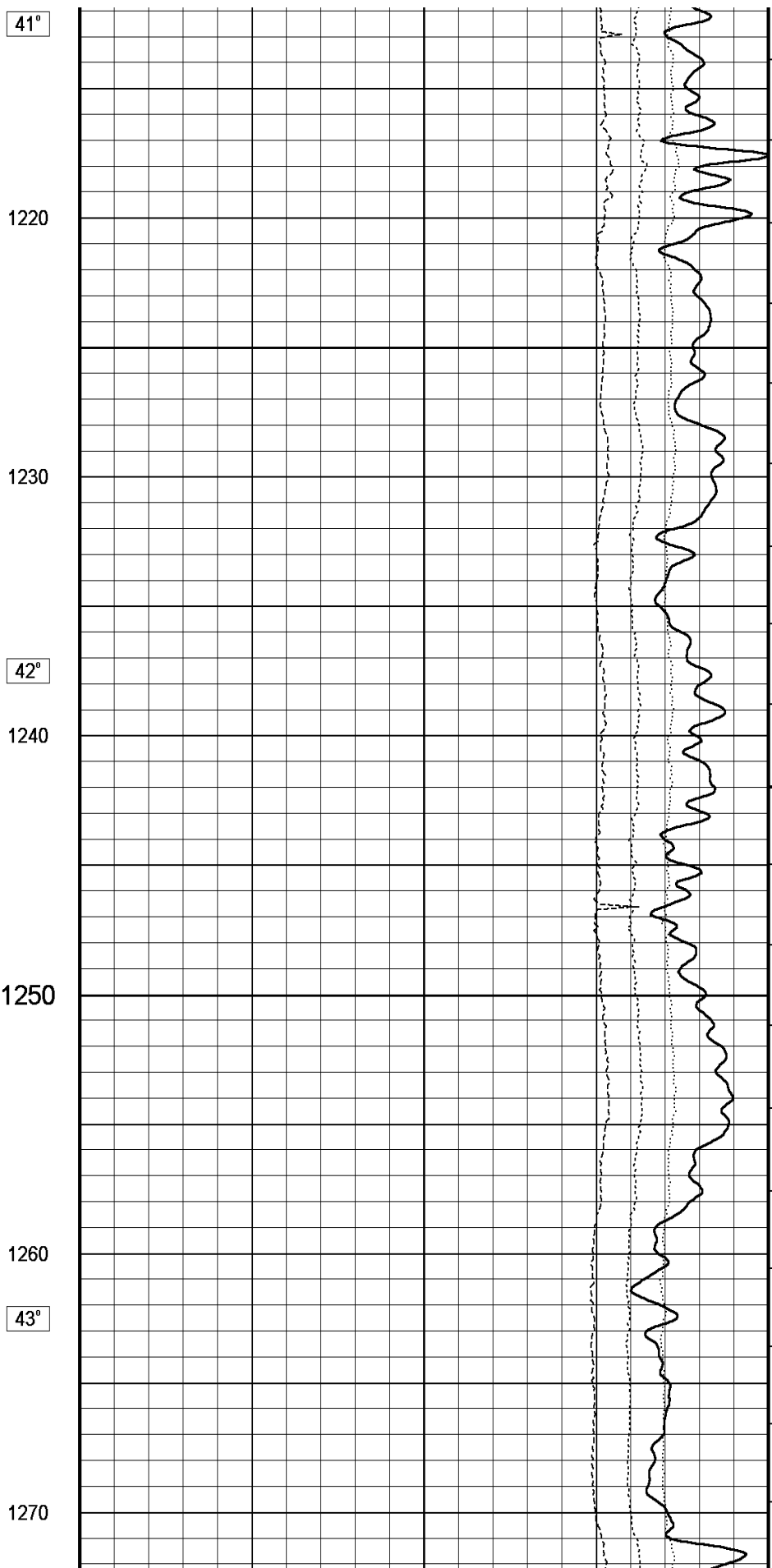
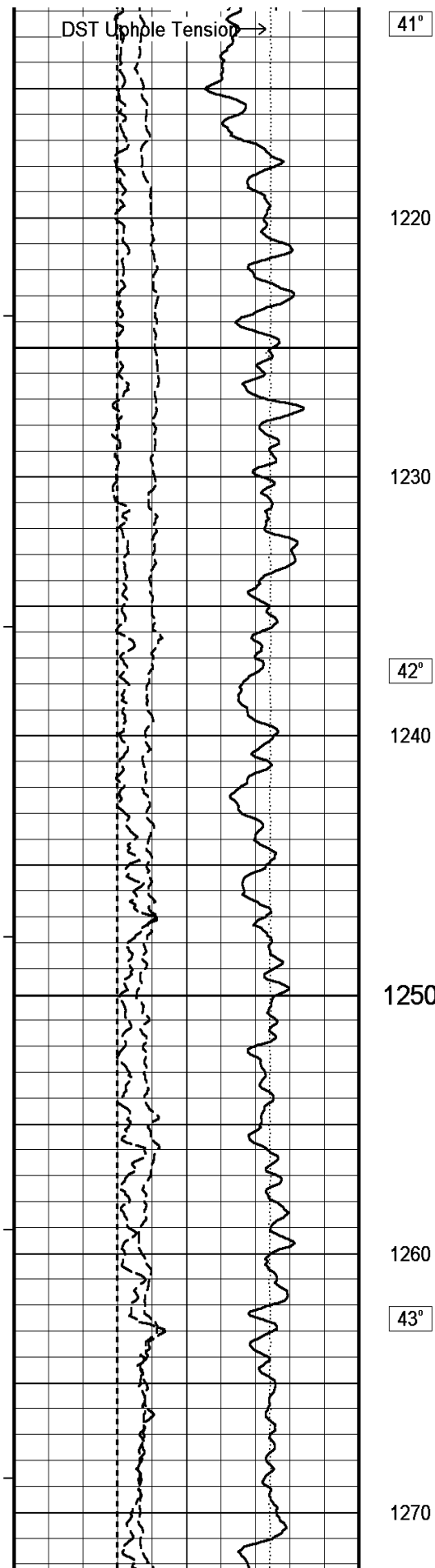
41°

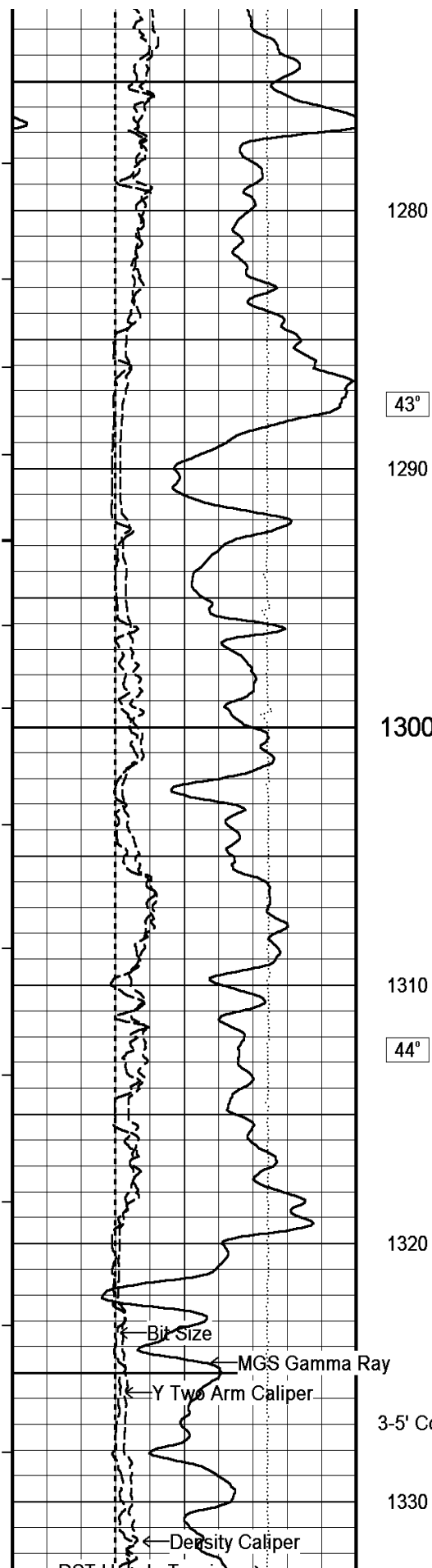
1190

1200

1210







1280

43°

1290

1300

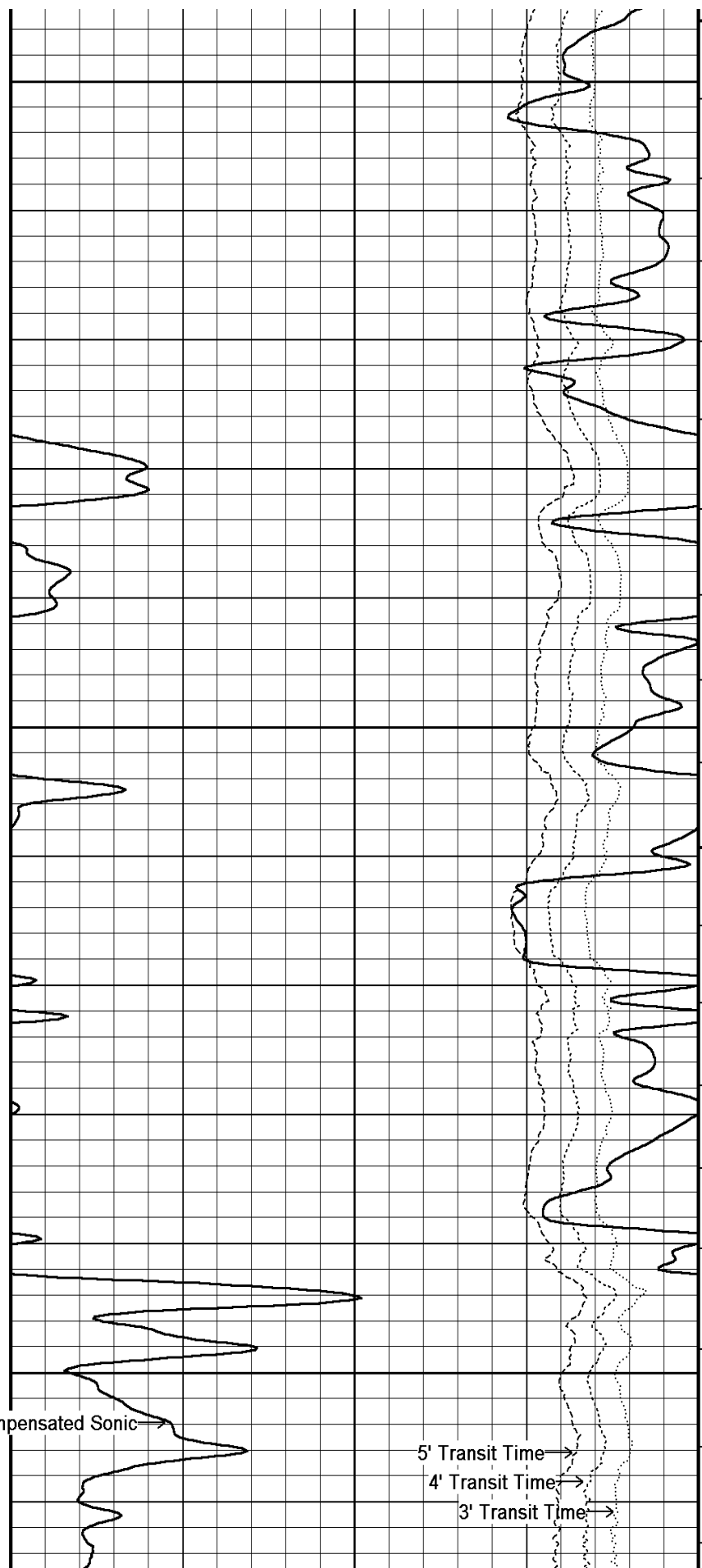
1310

44°

1320

3-5' Compensated Sonic

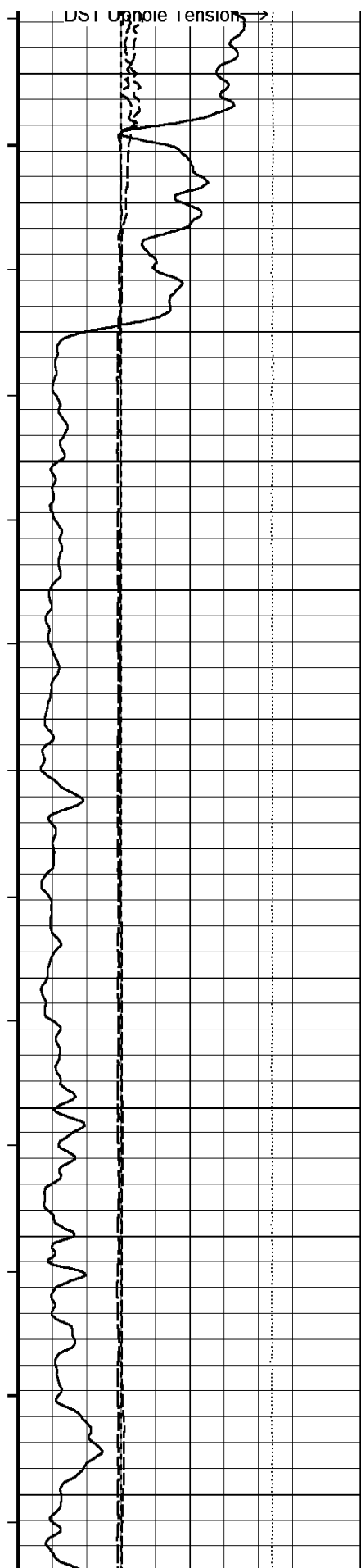
1330



5' Transit Time

4' Transit Time

3' Transit Time



45°

1340

1350

1360

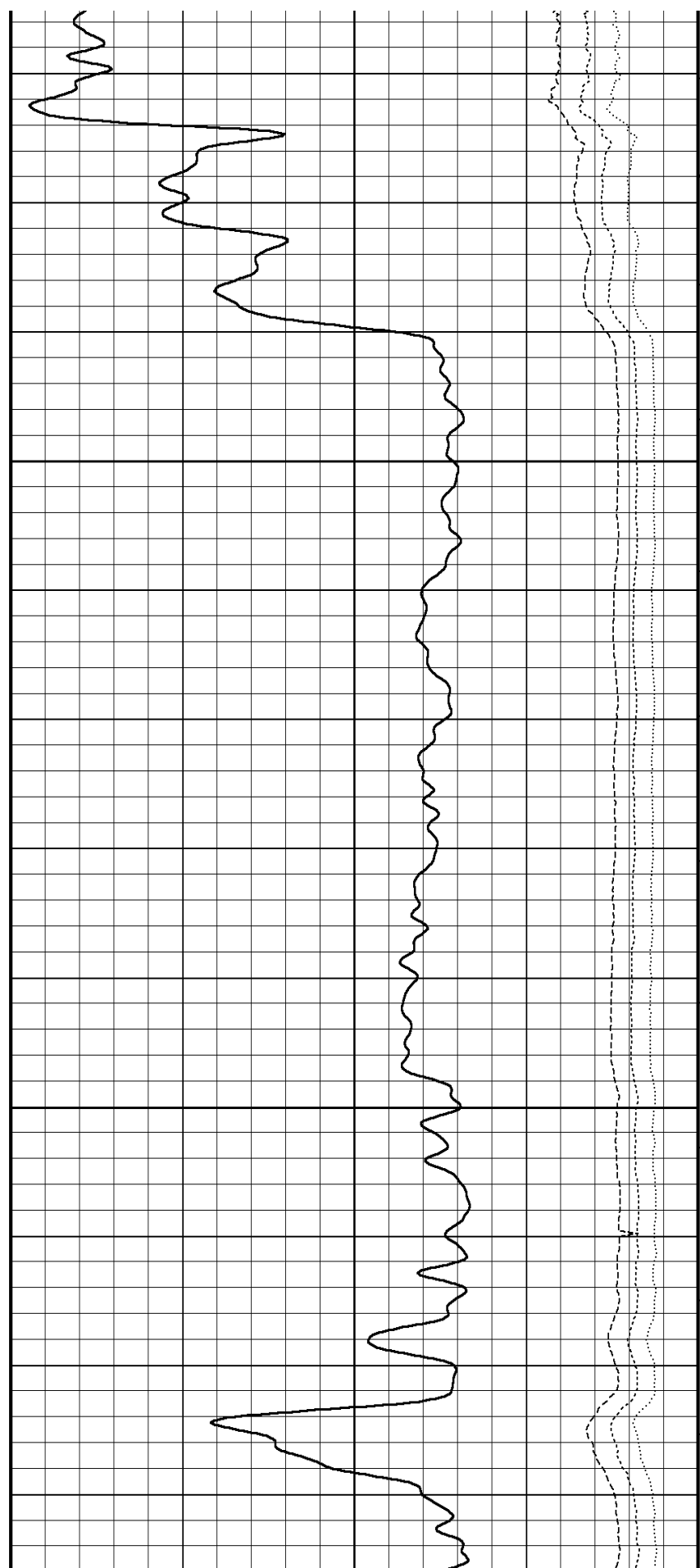
45°

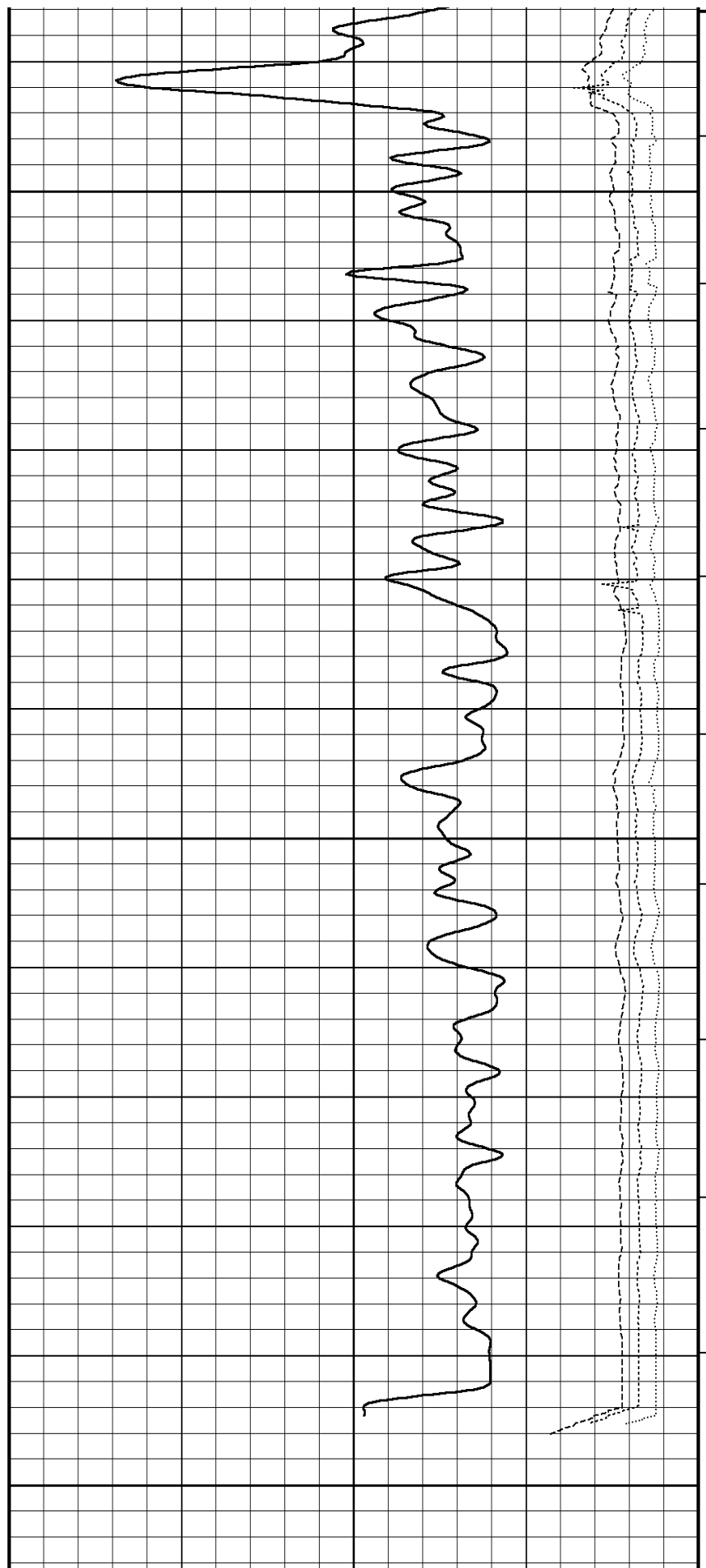
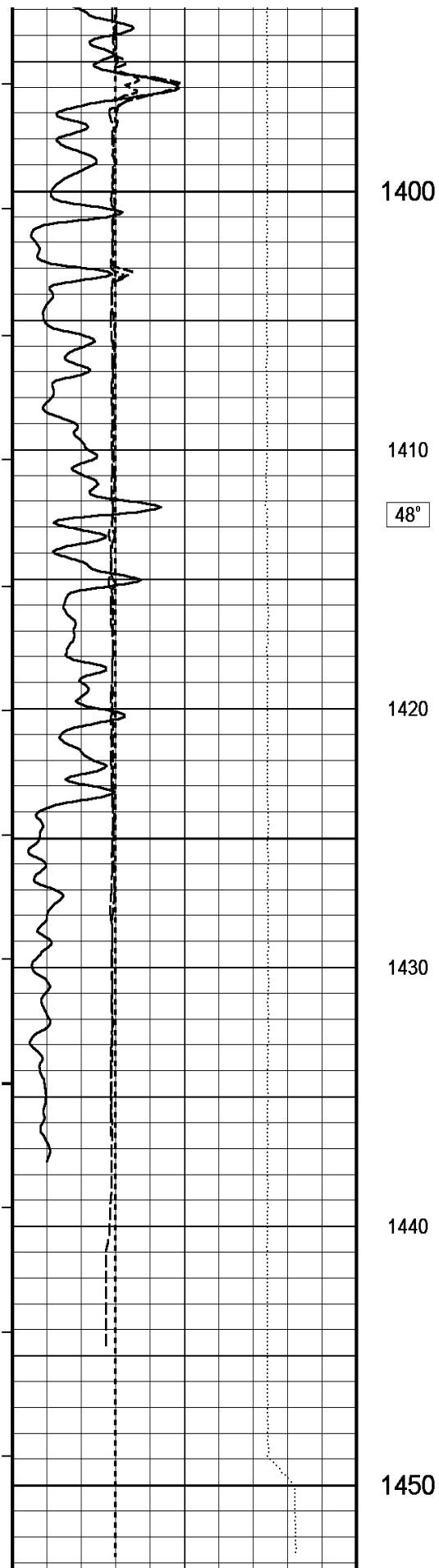
1370

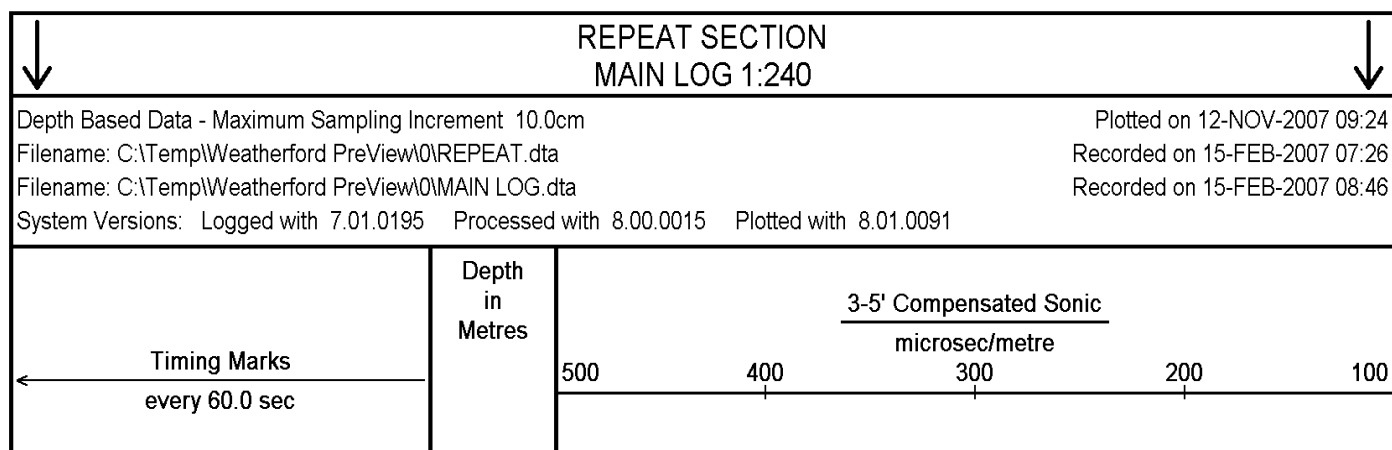
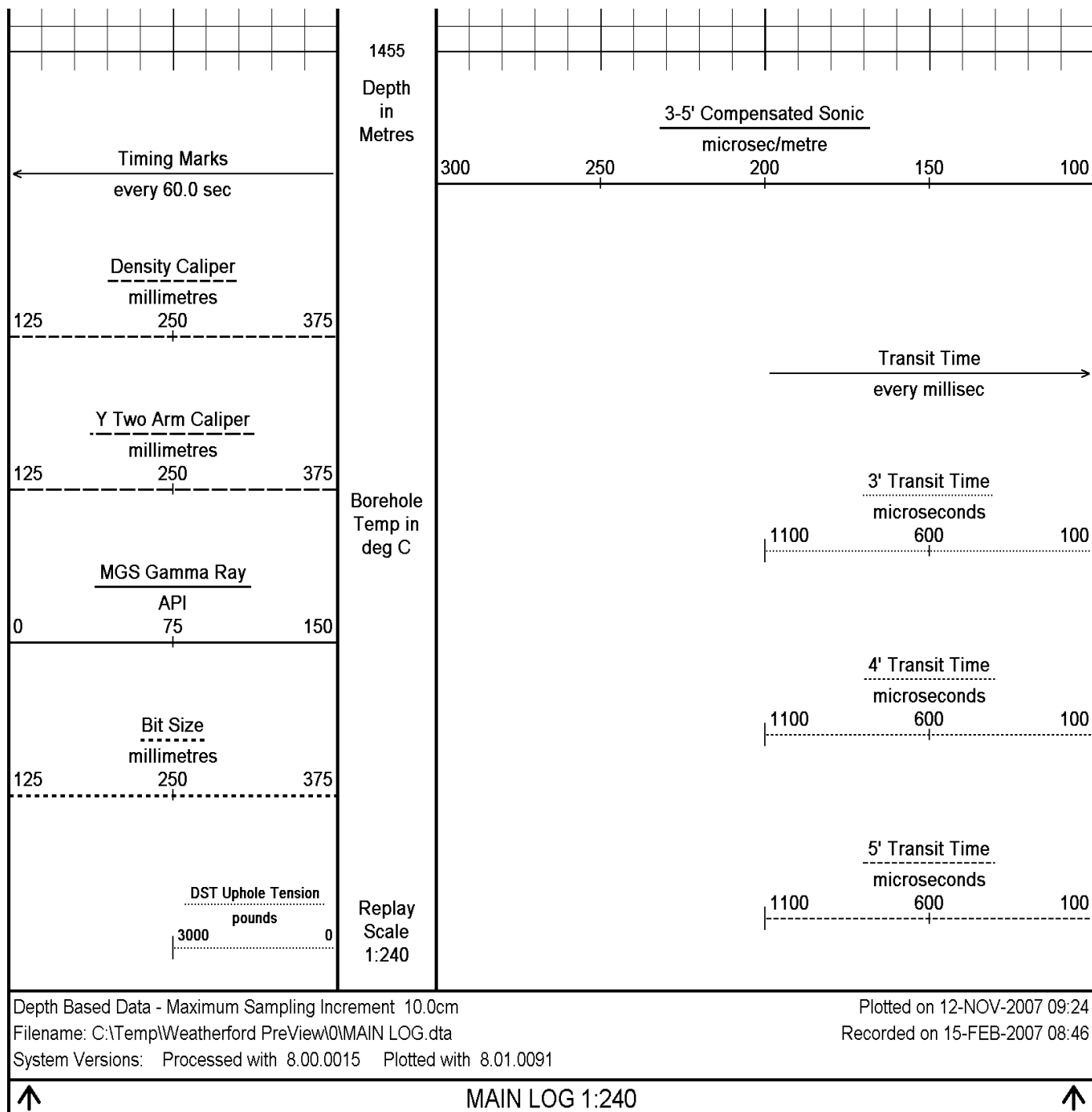
1380

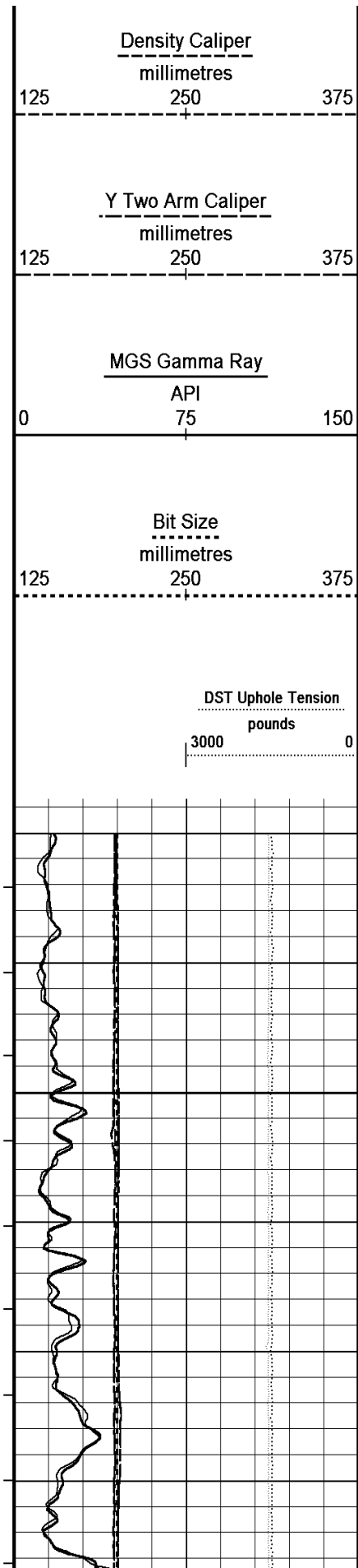
46°

1390









Borehole
Temp in
deg C

Replay
Scale
1:240

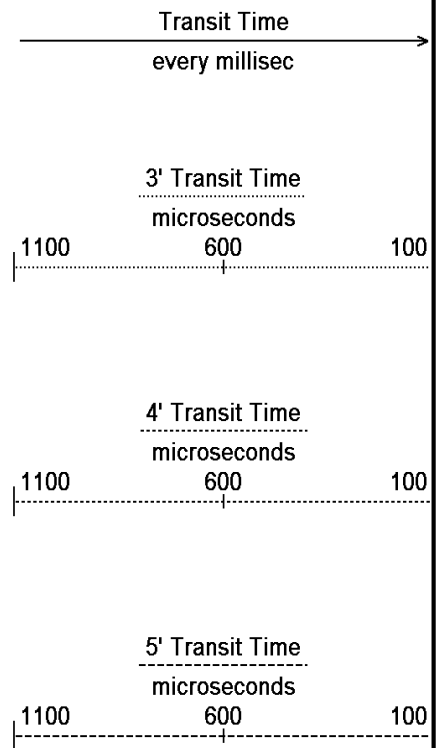
1365

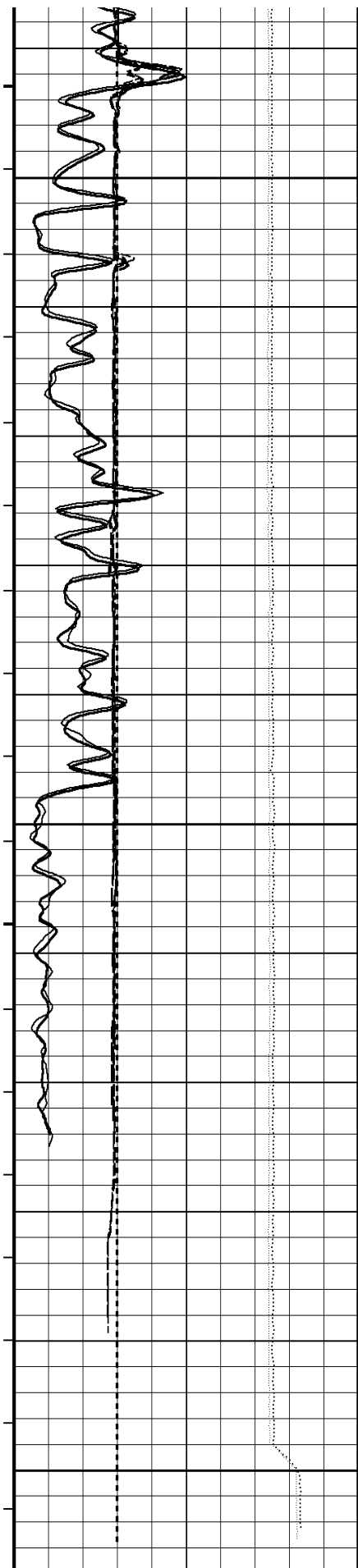
1370

1380

45°

1390





1400

1410

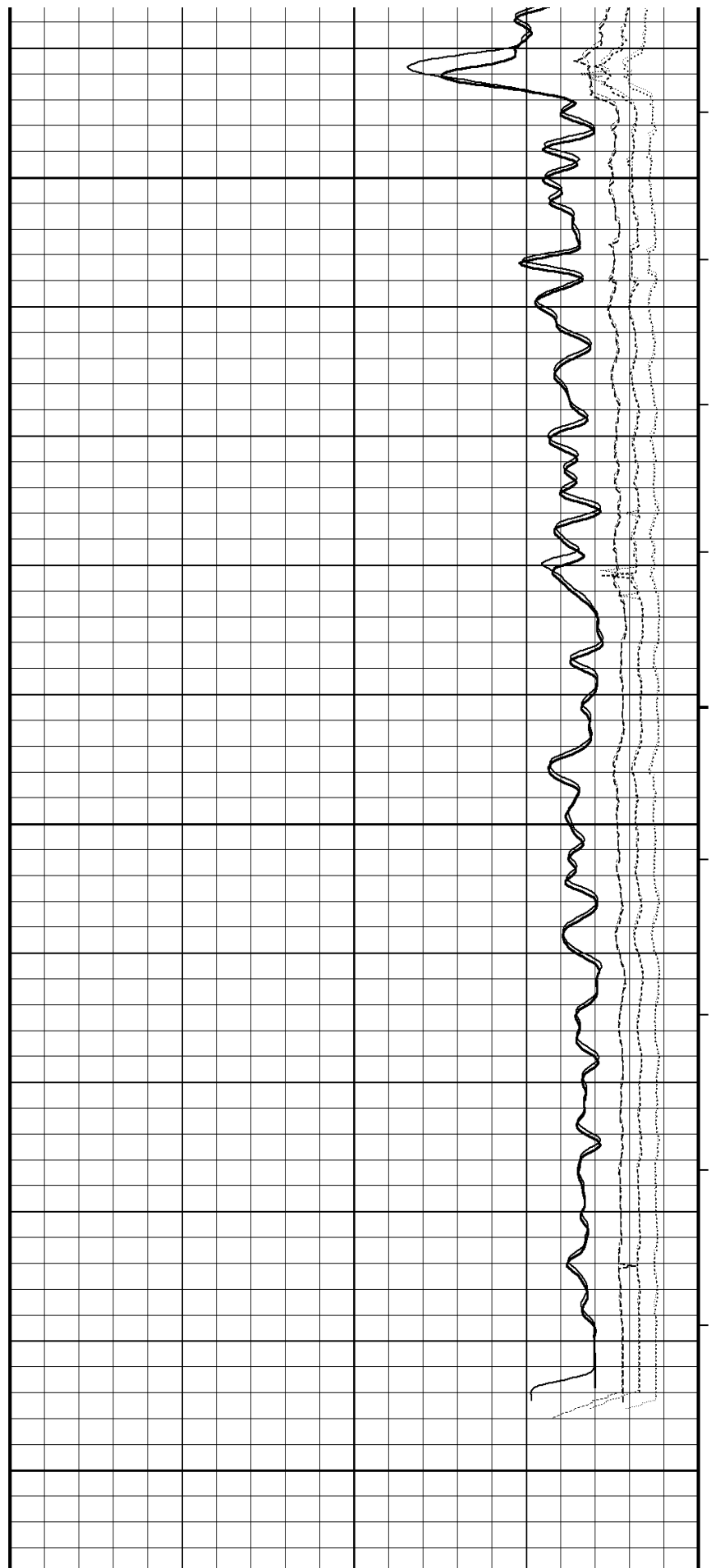
46°

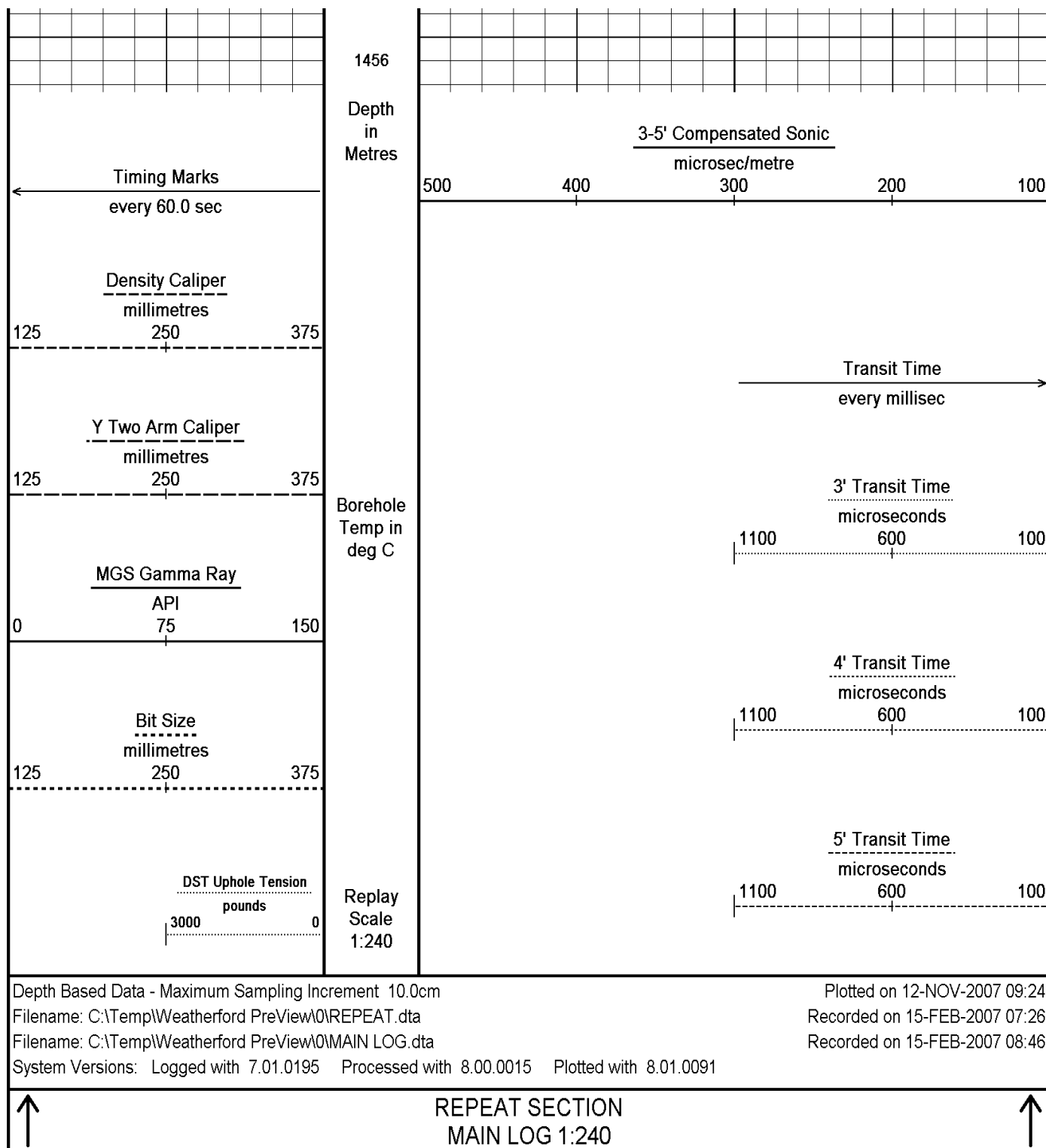
1420

1430

1440

1450





BEFORE SURVEY CALIBRATION		
C:\Temp\Weatherford PreView\0\REPEAT.dta		
General Constants All 000		Last Edited on 15-FEB-2007,06:48
General Parameters		
Mud Resistivity	1.180	ohm-metres
Mud Resistivity Temperature	25.000	degrees C
Water Level	0.000	metres
Density/Neutron Processing	Wet Hole	

Hole/Annular Volume and Differential Caliper Parameters		
HVOL Caliper 1	Density Caliper	
HVOL Caliper 2	Y Two Arm Caliper	
Annular Volume Diameter	139.700	mm
Caliper for Differential Caliper	Density Caliper	
Rwa Parameters		
Porosity used	Base Density Porosity	
Resistivity used	Deep Induction	
RWA Constant A	0.610	
RWA Constant M	2.150	
High Resolution Temperature Calibration MCG 159		
	Measured	Calibrated(Deg C)
Lower	10.00	10.00
Upper	50.00	50.00
High Resolution Temperature Constants MCG 159		
Pre-filter Length	11	
Caliper Calibration MTC 006		
Base Calibration		Base Calibration on 25-JAN-2007,18:14
Field Calibration		Field Calibration on 10-FEB-2007,20:21
Reading No	Measured	Calibrator Size (mm)
1	14734	110.00
2	17539	162.00
3	20248	212.00
4	22990	262.00
5	25897	311.00
6	N/A	N/A
Field Calibration		
	Measured Caliper (mm)	Actual Caliper (mm)
	208.70	205.70
Gamma Calibration MGS 010		
	Measured	Calibrated (API)
Background	48	31
Calibrator (Gross)	1256	825
Calibrator (Net)	1208	794
Gamma Constants MGS 010		
		Field Calibration on 7-FEB-2007,09:09
Gamma Calibrator Number	grcc075	
Mud Density	1060.00	kg/m3
Caliper Source for Processing	Density Caliper	
Tool Position	Centred	
Concentration of KCl	0.00	kppm
Caliper Calibration MPD 036		
Base Calibration		Base Calibration on 23-JAN-2007 04:20
Field Calibration		Field Calibration on 7-FEB-2007,11:28
Reading No	Measured	Calibrator Size (mm)
1	18576	110.00
2	28032	162.00
3	37841	212.00
4	48080	262.00
5	57920	311.00
6	N/A	N/A
Field Calibration		
	Measured Caliner (mm)	Actual Caliner (mm)

measured sample (mm) 166.10
 total sample (mm) 166.10

Sonic Constants MSS 060

Last Edited on 7-FEB-2007,10:50

Maximum Boundary Contrast	328.08	micro-sec/m
Fluid Transit Time	620.08	micro-sec/m
Limestone Transit Time	155.84	micro-sec/m
Sandstone Transit Time	182.09	micro-sec/m
Dolomite Transit Time	142.72	micro-sec/m
Sonic used for Porosities	3-5' Compensated Sonic	
Correction for Sonde Skew	Applied	
Cycle Stretch Algorithm	Applied	
MN3FT	N/A	micro-sec
MX3FT	N/A	micro-sec
Hunt-Raymer Constant	83.13	micro-sec/ft

Fixed Gate Parameters

Start Time (micro-sec)	End Time (micro-sec)	Discriminator (mV)	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Down Hole Fixed Gate Parameters

Gate Start	N/A	micro-sec
Gate Width	N/A	micro-sec
Initial Discriminator Level	0.0000	mVolts

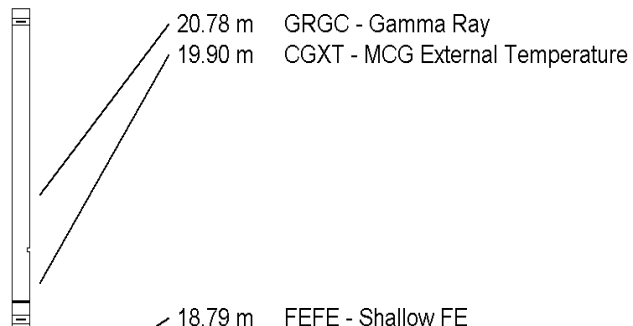
Full Waveform Parameters

Use 3' Waveform to derive TR	N/A
Use 4' Waveform to derive TR	N/A
Use 5' Waveform to derive TR	N/A
Use 6' Waveform to derive TR	N/A
3' Waveform Discriminator Level	N/A mV
4' Waveform Discriminator Level	N/A mV
5' Waveform Discriminator Level	N/A mV
6' Waveform Discriminator Level	N/A mV
3' Waveform Filter	N/A
4' Waveform Filter	N/A
5' Waveform Filter	N/A
6' Waveform Filter	N/A
Semblance Level	N/A
Semblance Window Width	N/A micro-sec
Sonic 1 Despiker	N/A N/A
Sonic 2 Despiker	N/A N/A

DOWNHOLE EQUIPMENT

C:\Temp\Weatherford PreView\0\REPEAT.dta

Compact Gamma
 MCG 159 Length: 2.65 m Weight: 63.9 lb



Compact Focused Electric

MFE 17 Length: 1.84 m Weight: 48.5 lb

Compact Two Arm Caliper
MTC 6 Length: 2.17 m Weight: 61.7 lb

Compact Short Gamma
MGS 10 Length: 1.04 m Weight: 24.3 lb

Compact InterSonde Crank
ISC 159 Length: 0.70 m Weight: 24.3 lb

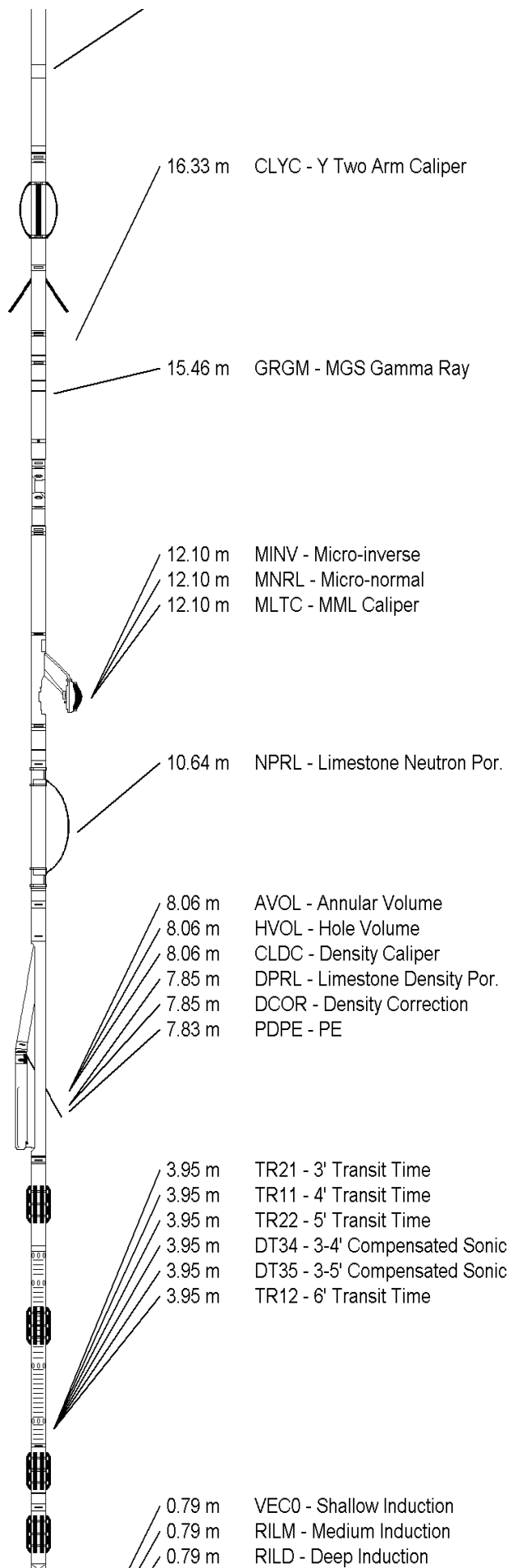
Compact Micro-log
MML 15 Length: 2.43 m Weight: 81.6 lb

Compact Neutron
MDN 144 Length: 1.53 m Weight: 50.7 lb

Compact Density/Caliper
MPD 36 Length: 2.92 m Weight: 90.4 lb

Compact Sonic
MSS 60 Length: 3.82 m Weight: 72.8 lb

Compact Induction
MAI 72 Length: 3.29 m Weight: 48.5 lb



Compact Hole Finder

HFS 1 Length: 0.24 m

Weight: 2.2 lb

Total Length: 22.63 m

Weight: 568.8 lb



0.07 m

Tool Zero

SPCG - Spontaneous Potential
(0.28m from bottom)

All measurements relative to tool zero.

COMPANY

PARAMOUNT RESOURCES LTD.

WELL

PARAMOUNT ET AL CAMERON J-04

FIELD

CAMERON HILLS

PROVINCE/COUNTY

NORTH WEST TERRITORIES

COUNTRY/STATE

CANADA

Elevation Kelly Bushing	769.20	metres
Elevation Drill Floor		metres
Elevation Ground Level	765.20	metres

First Reading	1445.50	metre
Depth Driller	1449.00	metres
Depth Logger	1449.50	metres



Weatherford®

COMPENSATED SONIC



CEMENT VOLUME PROD. CSG. 139.7 MM

COMPANY		PARAMOUNT RESOURCES LTD.			
WELL		PARAMOUNT ET AL CAMERON J-04			
FIELD		CAMERON HILLS			
PROVINCE/COUNTY		NORTH WEST TERRITORIES			
COUNTRY/STATE		CANADA			
LOCATION		300/J-04-60-10-117-30			
		FIELD PRINT			
LSD	SEC	TWP	RGE	Other Services	PHOTO DENSITY
				ARRAY INDUCTION	DUAL SPACED NEUTRON
API Number				MICROLOG	
Permit Number 1159				COMPENSTATED SONIC	
Permanent Datum GROUND LEVEL, Elevation 765.20 metres					Elevations: metres
Log Measured From 4.00 M above Permanent Datum					KB 769.20
Drilling Measured From KB					DF
					GL 765.20
Date	15-FEB-2007				
Run Number	1				
Depth Driller	1449.00	metres			
Depth Logger	1449.50	metres			
First Reading	1441.60	metre			
Last Reading	420.00	metre			
Casing Driller	430.00	metres			
Casing Logger	429.80	metres			
Bit Size	200.00	mm			
Hole Fluid Type	GELCHEM				
Density / Viscosity	1060.0 kg/M3	93.00	CP		
PH / Fluid Loss	11.00	11.00	ml/30Min		
Sample Source	FLOWLINE				
Rm @ Measured Temp	1.18 @ 25.0	ohm-m			
Rmf @ Measured Temp	1.04 @ 25.0	ohm-m			
Rmc @ Measured Temp	1.32 @ 25.0	ohm-m			
Source Rmf / Rmc	PRESS	FILTER			
Rm @ BHT	0.78 @ 48.0	ohm-m			
Time Since Circulation	6 HRS				
Max Recorded Temp	48.00	deg C			
Equipment Name	COMPACT				
Equipment / Base	13124	GPR			
Recorded By	G. SINGER				
Witnessed By	A. AHMED				
CIRC. STOP TIME	01:30-FEB-15	Last Line			

BOREHOLE RECORD				Last Edited: 15-FEB-2007 05:01	
Bit Size millimetres	Depth From metres		Depth To metres		
311.000	0.00		430.00		
200.000	430.00		1449.00		
CASING RECORD					
Type	Size millimetres	Depth From metres	Shoe Depth metres	Weight Kg/metre	
SURFACE	219.100	0.00	430.00	35.72	

REMARKS

- 1) SOFTWARE ISSUE: WLS 7.01.0195.
- 2) CUSTOMER SCALES AND LOGGED INTERVALS USED
- 3) TOOLS RUN: MAI, MSS, MPD, MDN, MML, ISC, MGS, MTC, MFE, MCG RUN IN COMBINATION
- 4) HARDWARE: MAI: TWO 25.4 MM STANDOFFS
MSS: THREE 25.4 MM STANDOFFS
MDN: DUAL BOWSPRING AND INTERSONIC CRANK
MTC: SIX LEAF CENTRALIZER
- 5) SERVICE ORDER #: 30073028 SAP #: 4147101 # FIELD PRINTS = 3
- 6) RIG: PD 129

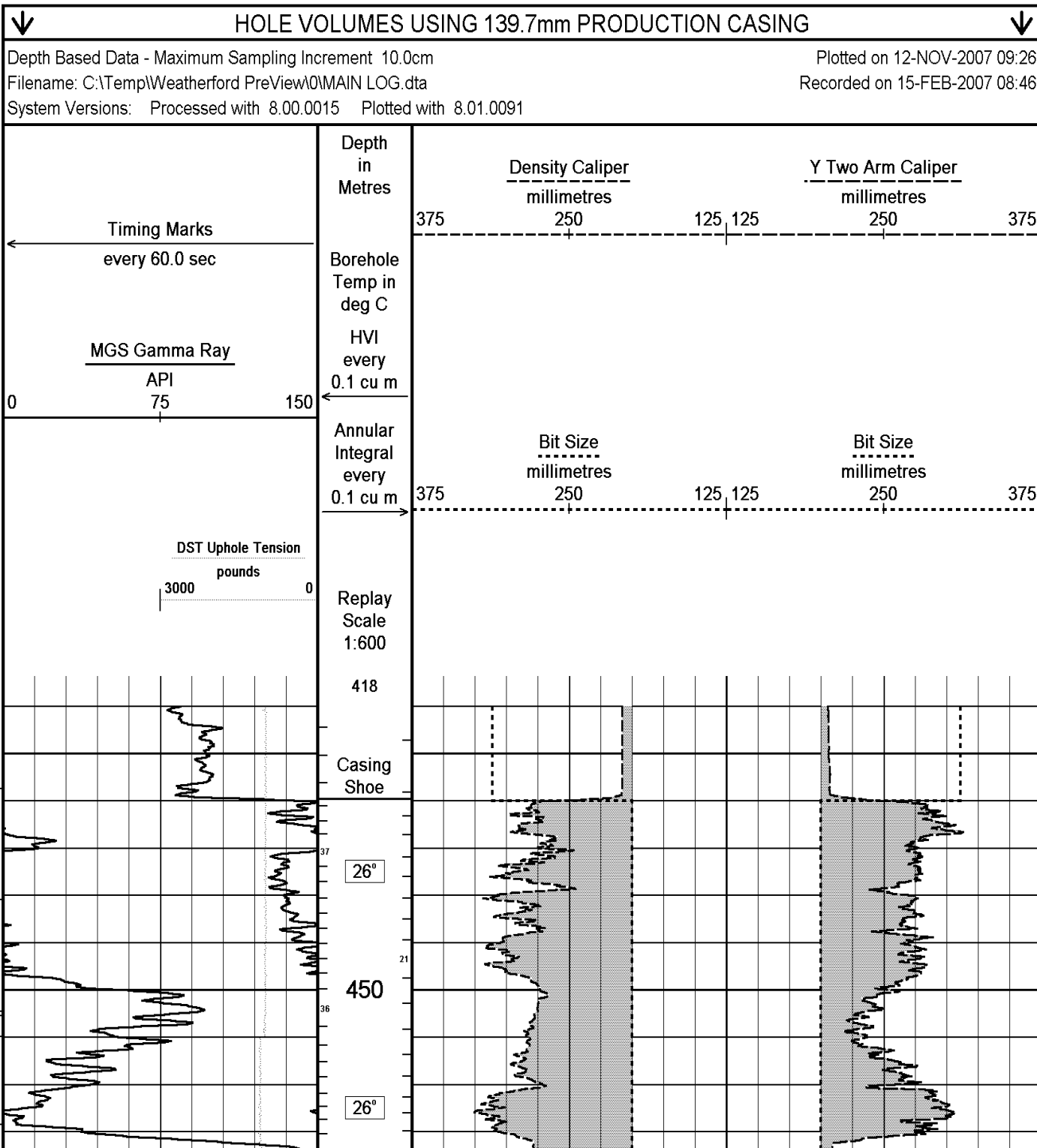
7) HOLE AND CEMENT VOLUMES CALCULATED USING DENSITY AND 2-ARM CALIPERS :

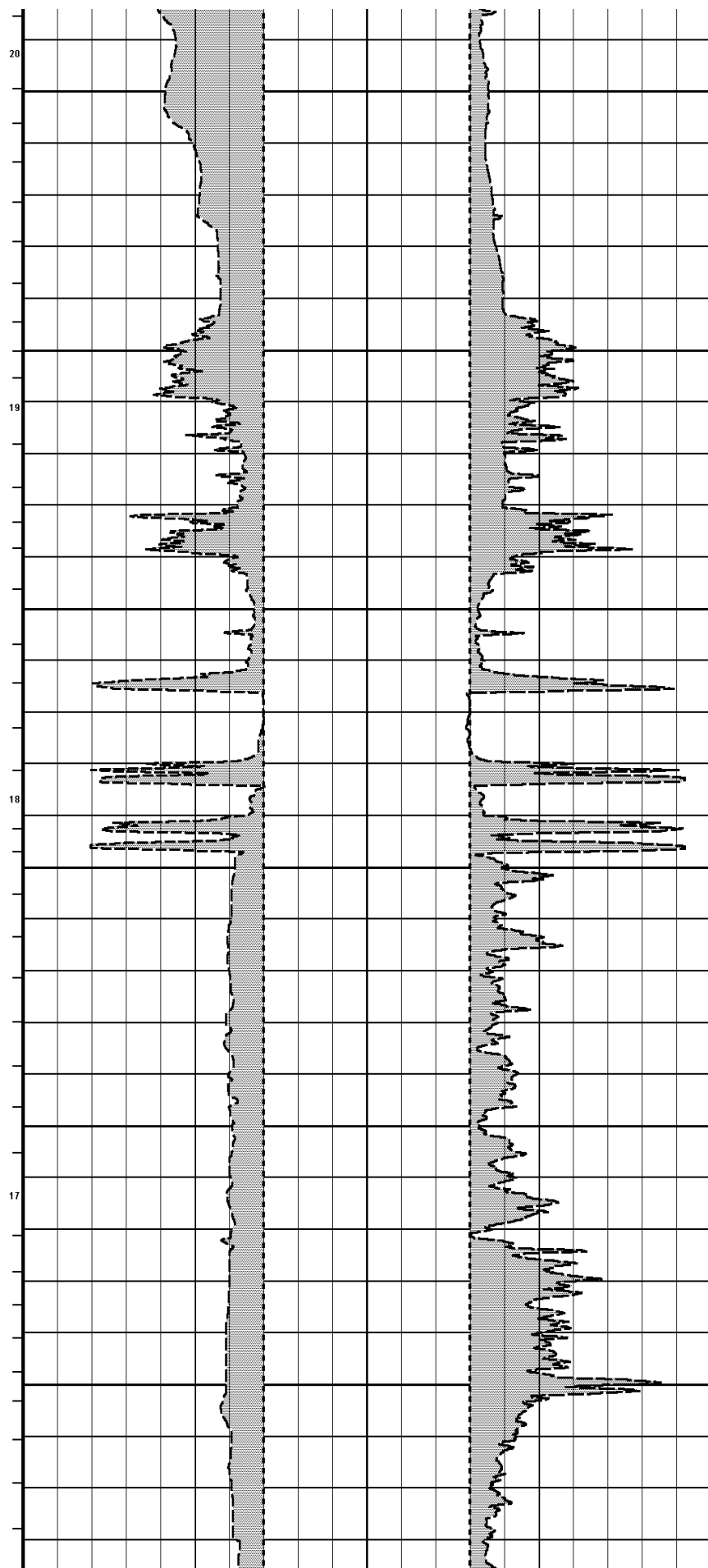
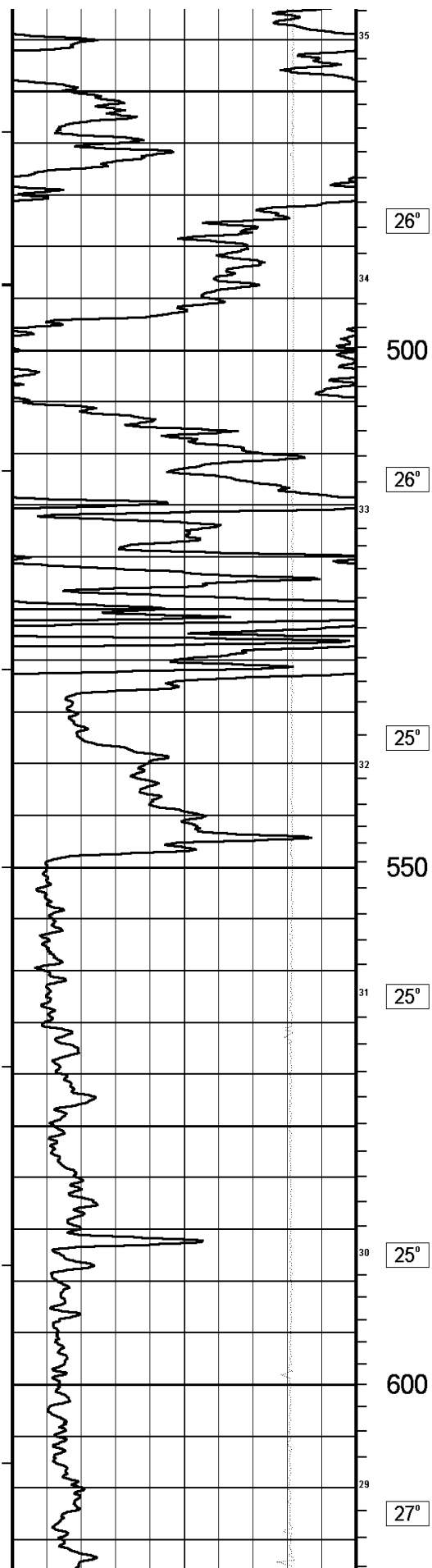
HOLE VOLUME = 37.4 CU.M.

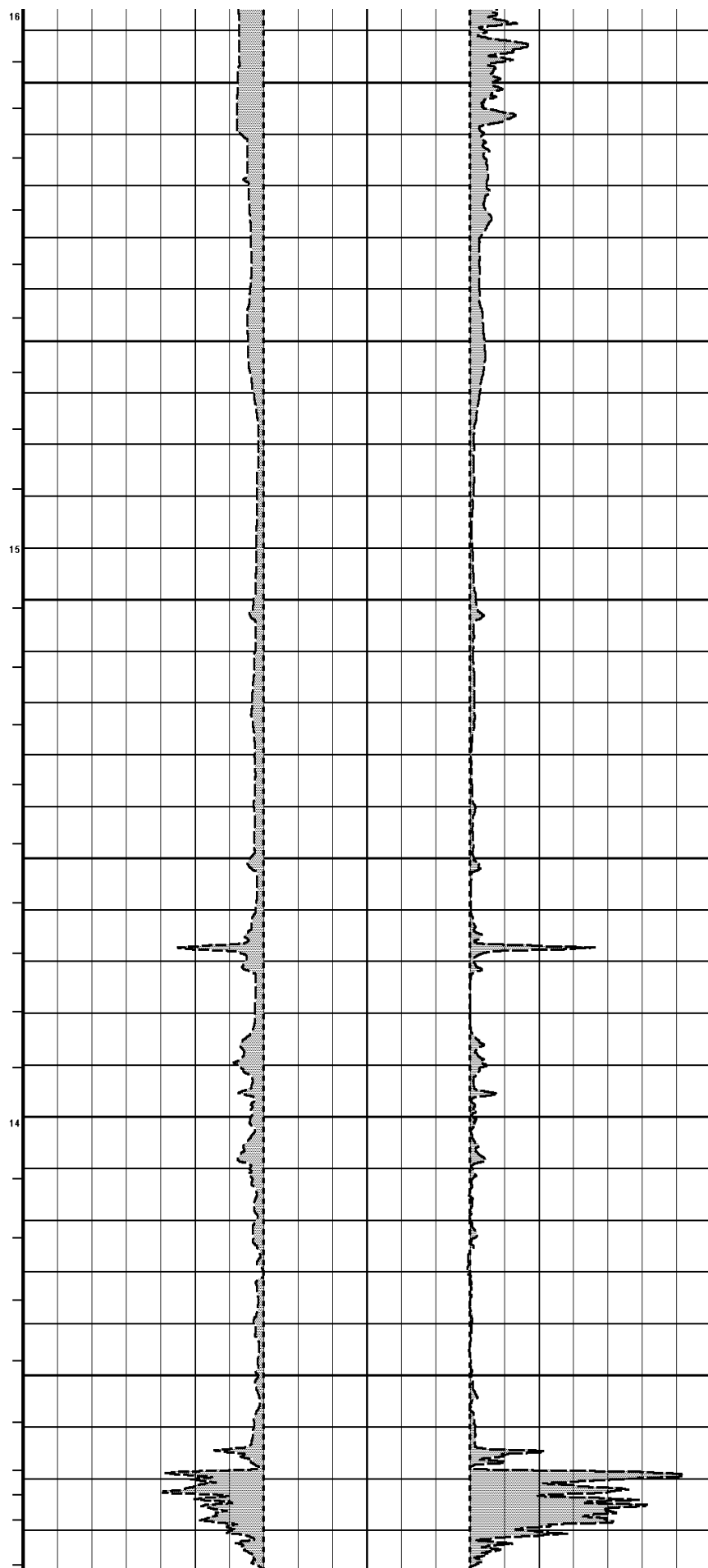
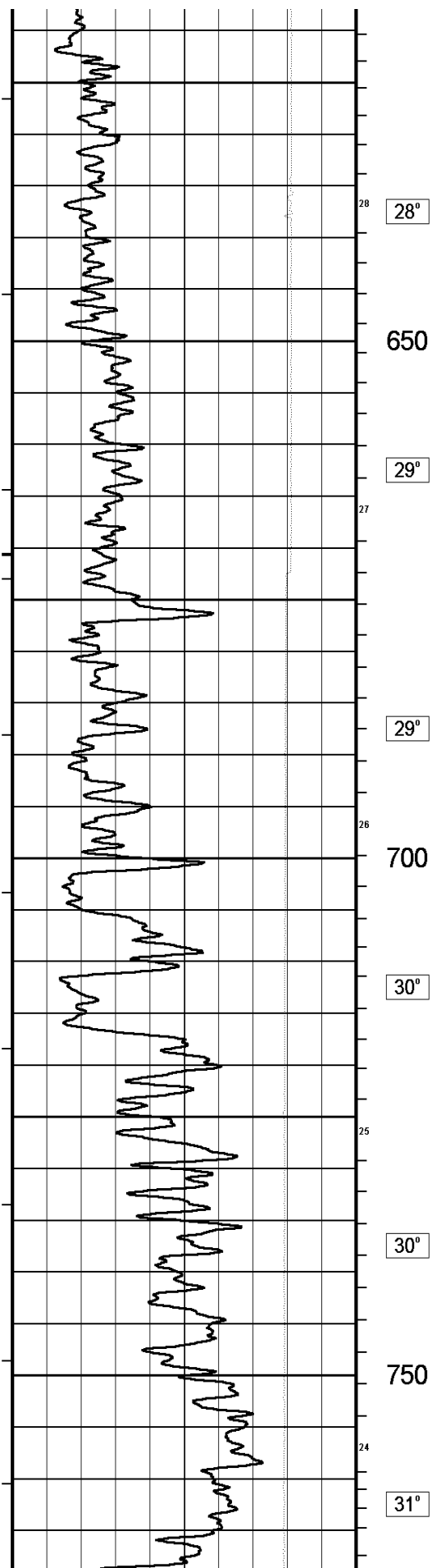
ANNULAR VOLUME USING 139.7 MM PRODUCTION CASING = 21.8 CU.M

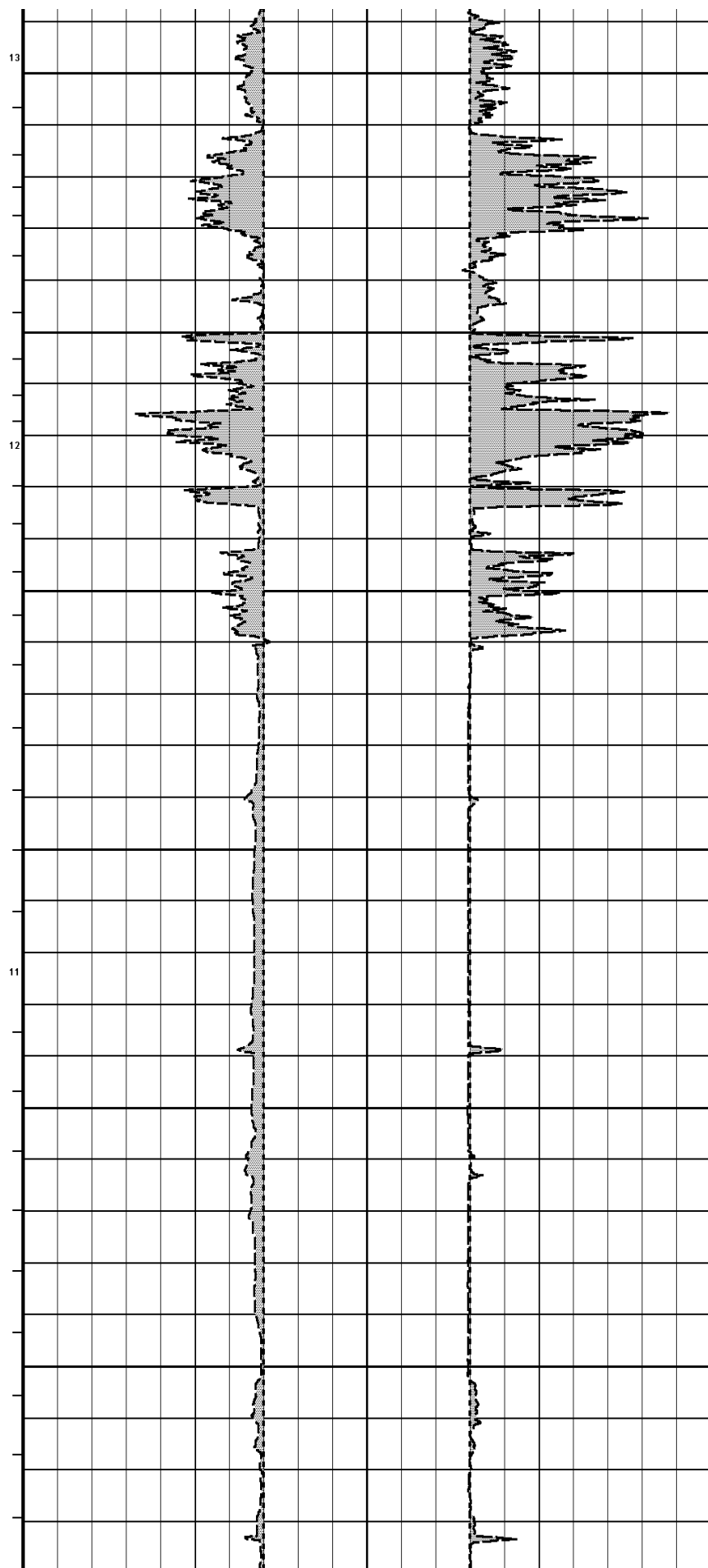
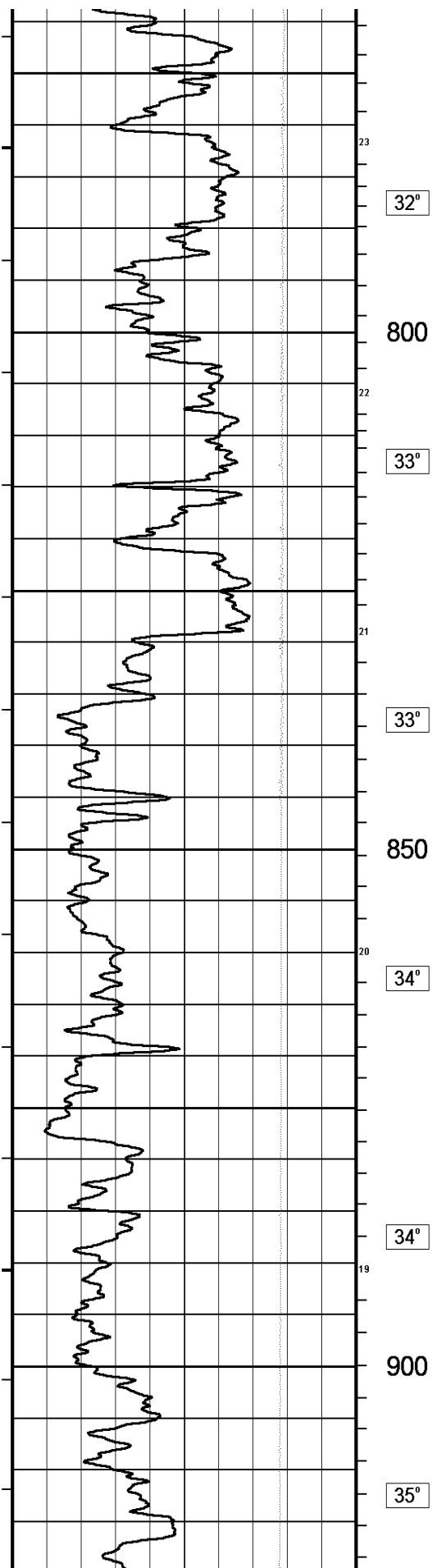
8) SONIC FREE PIPE FOUND FROM 352M - 357M

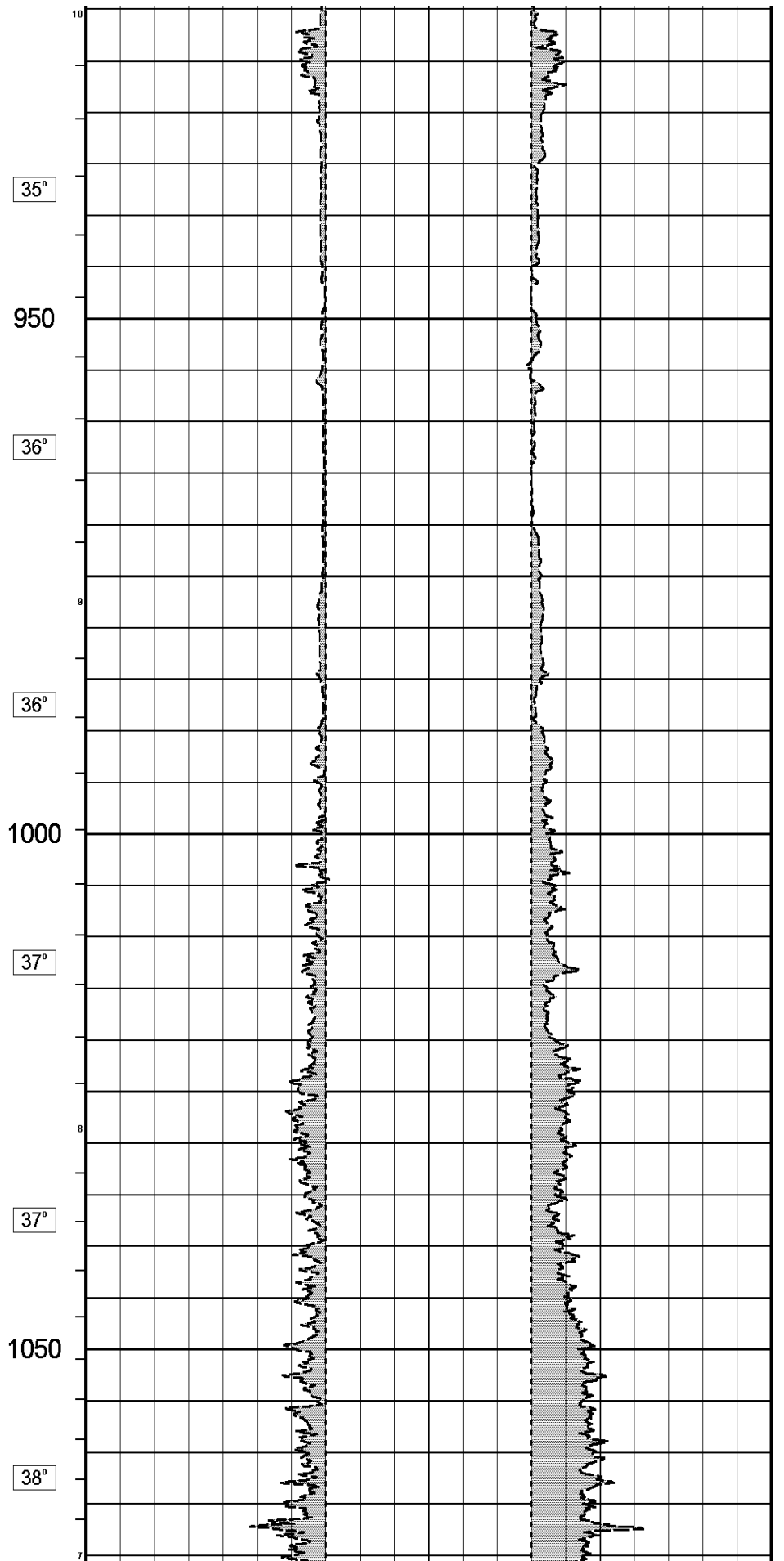
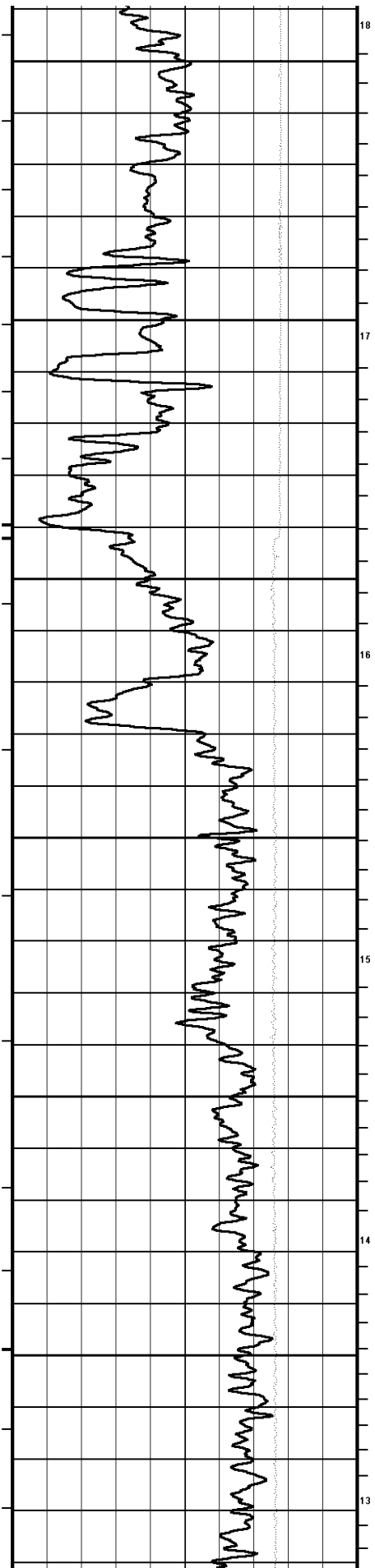
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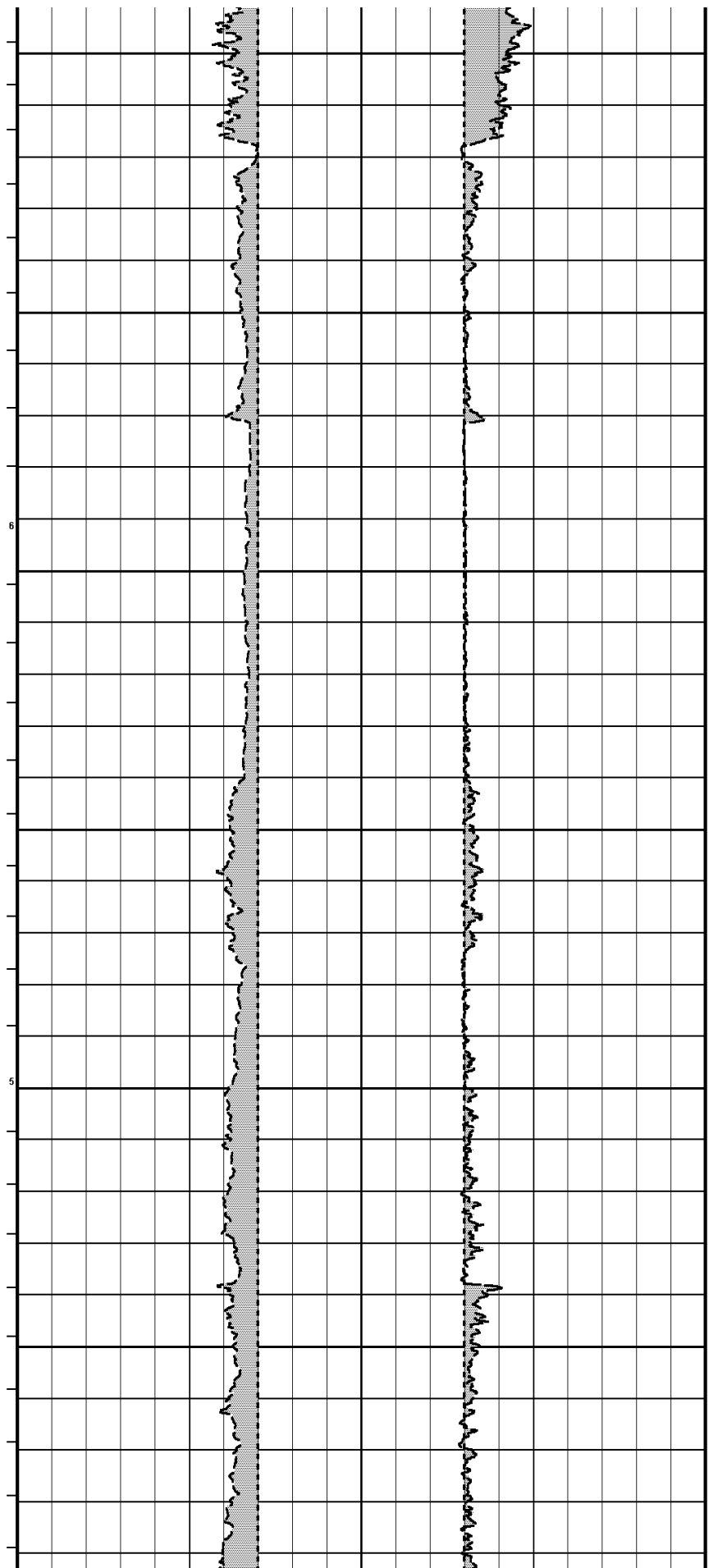
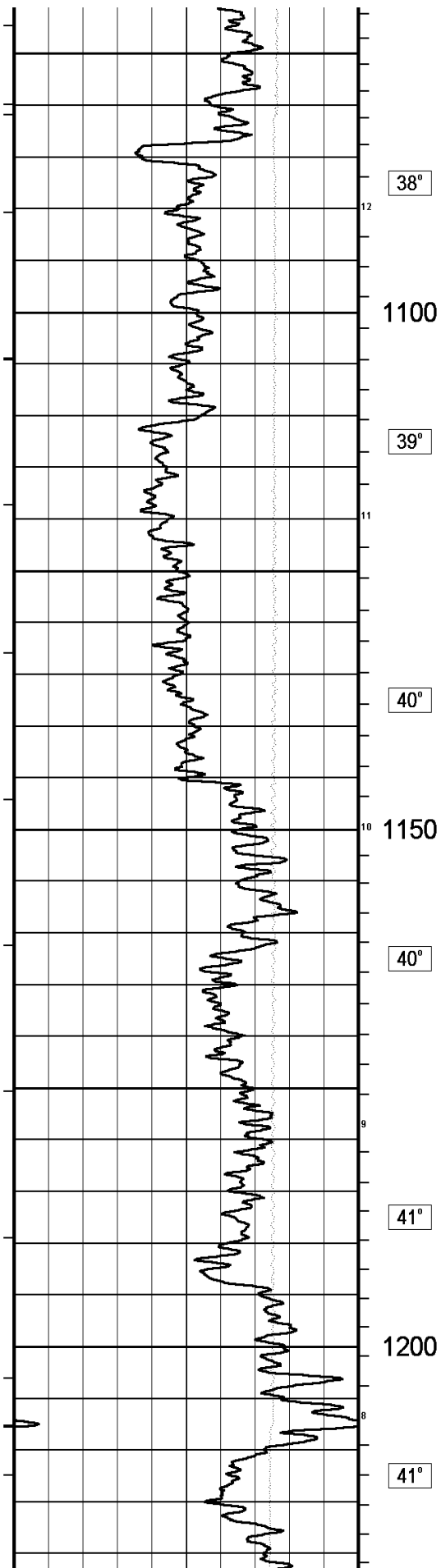


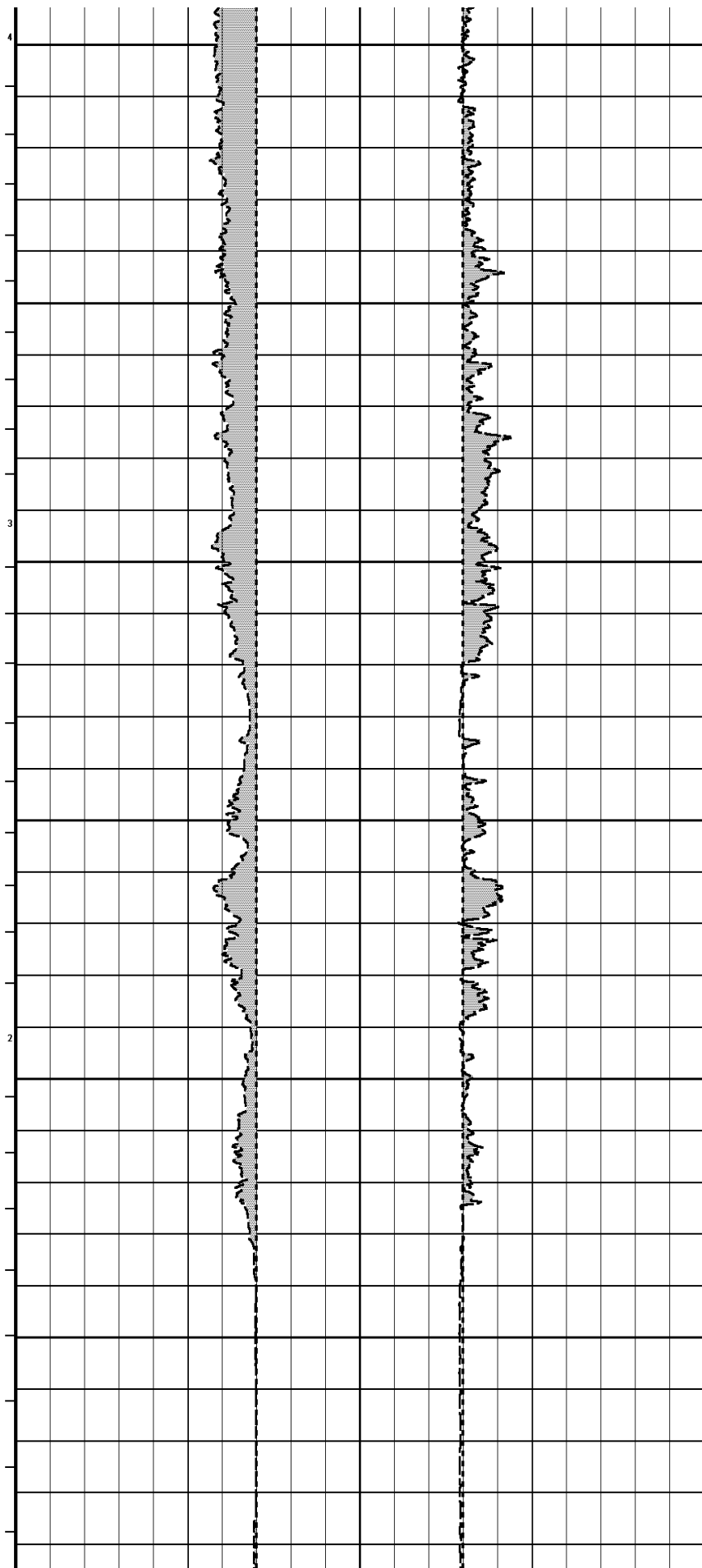
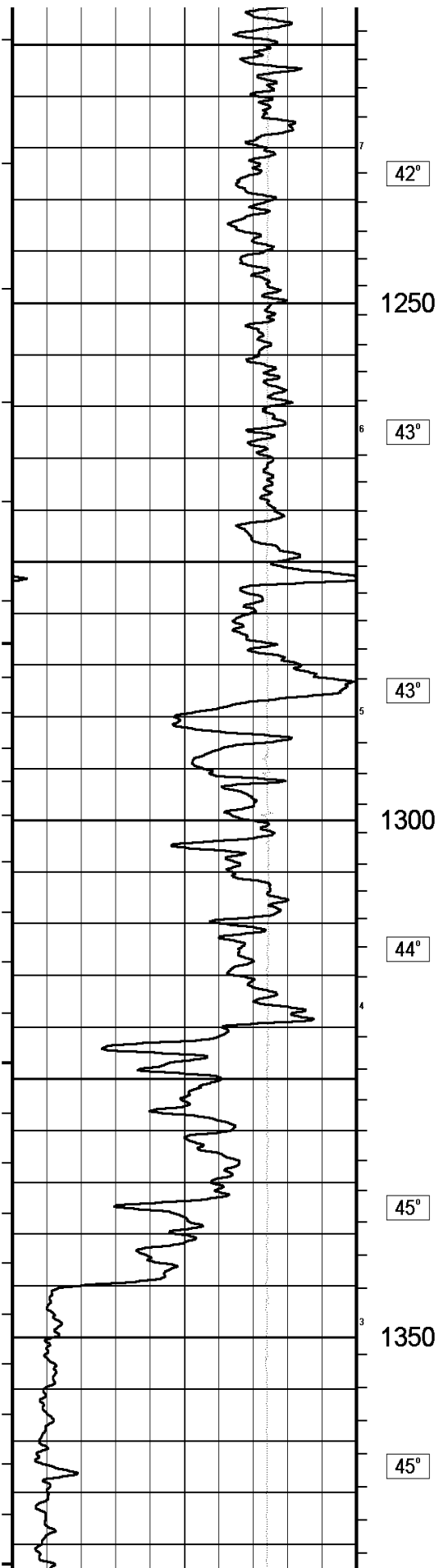


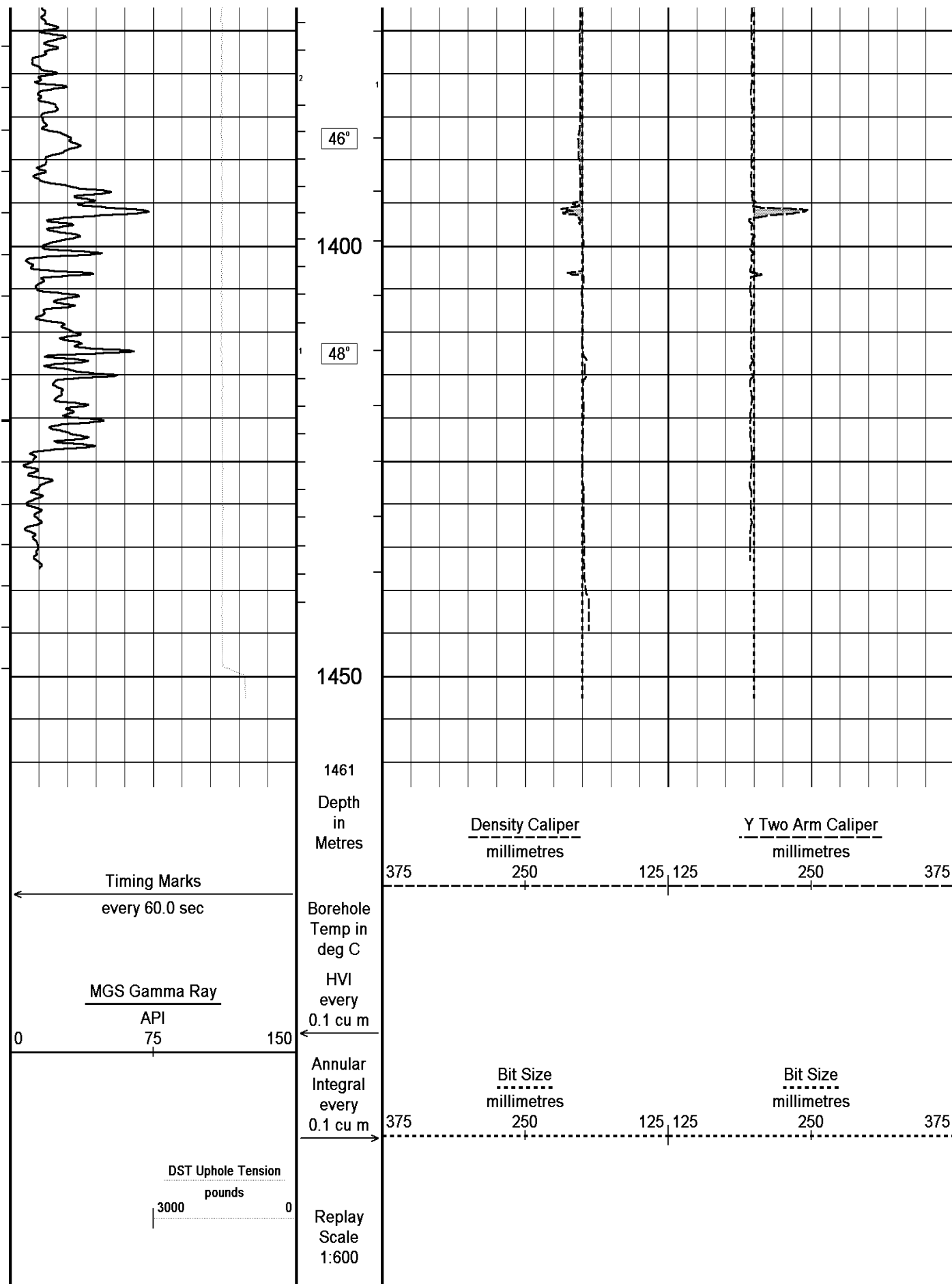












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HOLE VOLUMES USING 139.7mm PRODUCTION CASING

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COMPANY	PARAMOUNT RESOURCES LTD.				
WELL	PARAMOUNT ET AL CAMERON J-04				
FIELD	CAMERON HILLS				
PROVINCE/COUNTY	NORTH WEST TERRITORIES				
COUNTRY/STATE	CANADA				
Elevation Kelly Bushing	769.20	metres	First Reading	1441.60	metre
Elevation Drill Floor		metres	Depth Driller	1449.00	metres
Elevation Ground Level	765.20	metres	Depth Logger	1449.50	metres

**Weatherford®**

CEMENT VOLUME

PROD. CSG. 139.7 MM



CEMENT VOLUME PROD. CSG. 139.7 MM

COMPANY		PARAMOUNT RESOURCES LTD.			
WELL		PARAMOUNT ET AL CAMERON J-04			
FIELD		CAMERON HILLS			
PROVINCE/COUNTY		NORTH WEST TERRITORIES			
COUNTRY/STATE		CANADA			
LOCATION		300/J-04-60-10-117-30			
		FIELD PRINT			
LSD	SEC	TWP	RGE	Other Services	PHOTO DENSITY
				ARRAY INDUCTION	DUAL SPACED NEUTRON
API Number				MICROLOG	
Permit Number 1159				COMPENSTATED SONIC	
Permanent Datum GROUND LEVEL, Elevation 765.20 metres					Elevations: metres
Log Measured From 4.00 M above Permanent Datum					KB 769.20
Drilling Measured From KB					DF
					GL 765.20
Date	15-FEB-2007				
Run Number	1				
Depth Driller	1449.00	metres			
Depth Logger	1449.50	metres			
First Reading	1441.60	metre			
Last Reading	420.00	metre			
Casing Driller	430.00	metres			
Casing Logger	429.80	metres			
Bit Size	200.00	mm			
Hole Fluid Type	GELCHEM				
Density / Viscosity	1060.0 kg/M3	93.00	CP		
PH / Fluid Loss	11.00	11.00	ml/30Min		
Sample Source	FLOWLINE				
Rm @ Measured Temp	1.18 @ 25.0	ohm-m			
Rmf @ Measured Temp	1.04 @ 25.0	ohm-m			
Rmc @ Measured Temp	1.32 @ 25.0	ohm-m			
Source Rmf / Rmc	PRESS	FILTER			
Rm @ BHT	0.78 @ 48.0	ohm-m			
Time Since Circulation	6 HRS				
Max Recorded Temp	48.00	deg C			
Equipment Name	COMPACT				
Equipment / Base	13124	GPR			
Recorded By	G. SINGER				
Witnessed By	A. AHMED				
CIRC. STOP TIME	01:30-FEB-15	Last Line			

Last Edited: 15-FEB-2007 05:01		Depth To metres	
Bit Size millimetres	311.000	0.00	430.00
	200.000	430.00	1449.00
CASING RECORD			
Type	Size millimetres	Depth From metres	Shoe Depth metres
SURFACE	219.100	0.00	430.00
			Weight Kg/metre 35.72

REMARKS

- 1) SOFTWARE ISSUE: WLS 7.01.0195.
- 2) CUSTOMER SCALES AND LOGGED INTERVALS USED
- 3) TOOLS RUN: MAI, MSS, MPD, MDN, MML, ISC, MGS, MTC, MFE, MCG RUN IN COMBINATION
- 4) HARDWARE: MAI: TWO 25.4 MM STANDOFFS
MSS: THREE 25.4 MM STANDOFFS
MDN: DUAL BOWSPRING AND INTERSONIC CRANK
MTC: SIX LEAF CENTRALIZER

- 5) SERVICE ORDER #: 30073028 SAP #: 4147101 # FIELD PRINTS = 3
- 6) RIG: PD 129

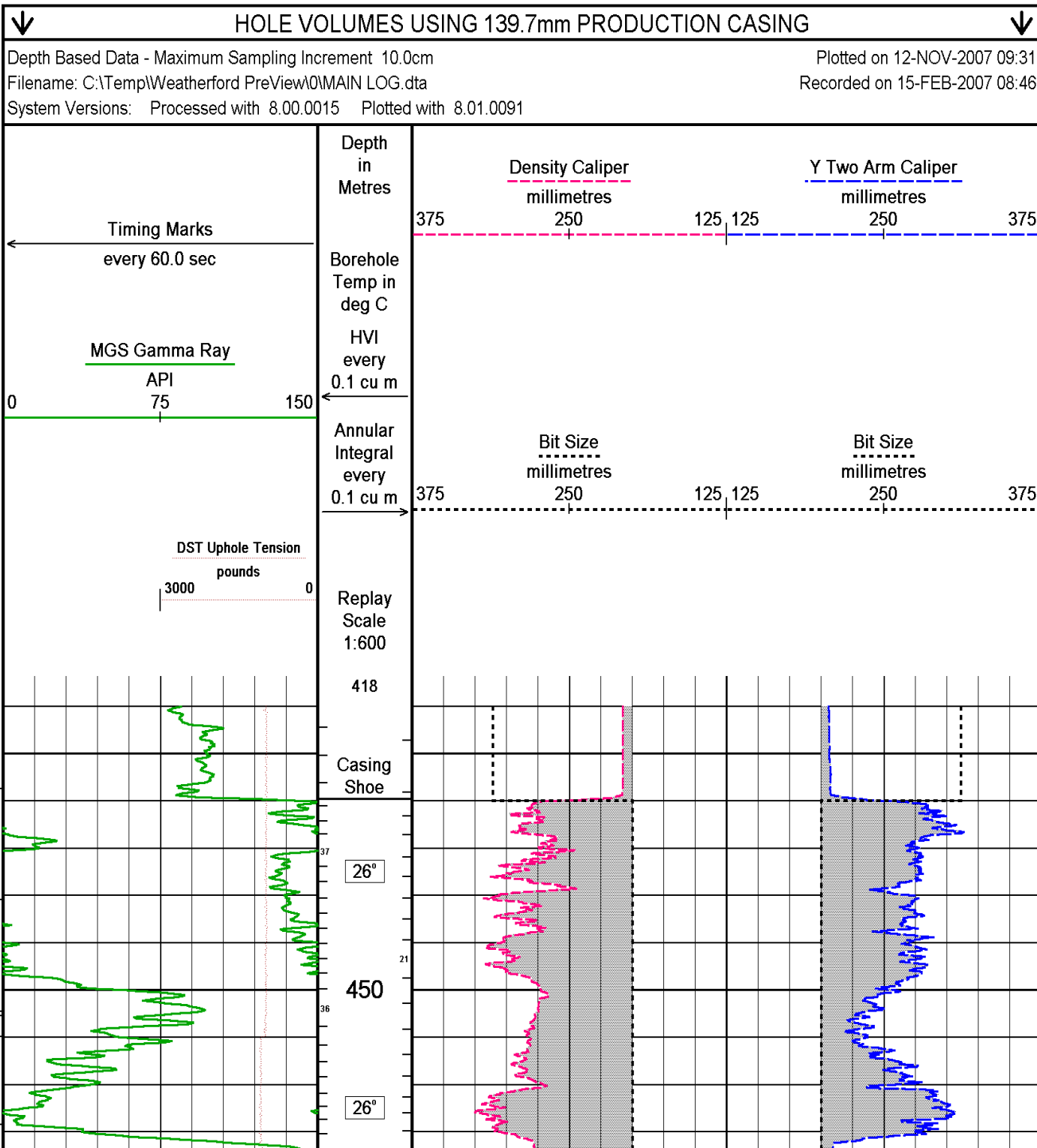
7) HOLE AND CEMENT VOLUMES CALCULATED USING DENSITY AND 2-ARM CALIPERS :

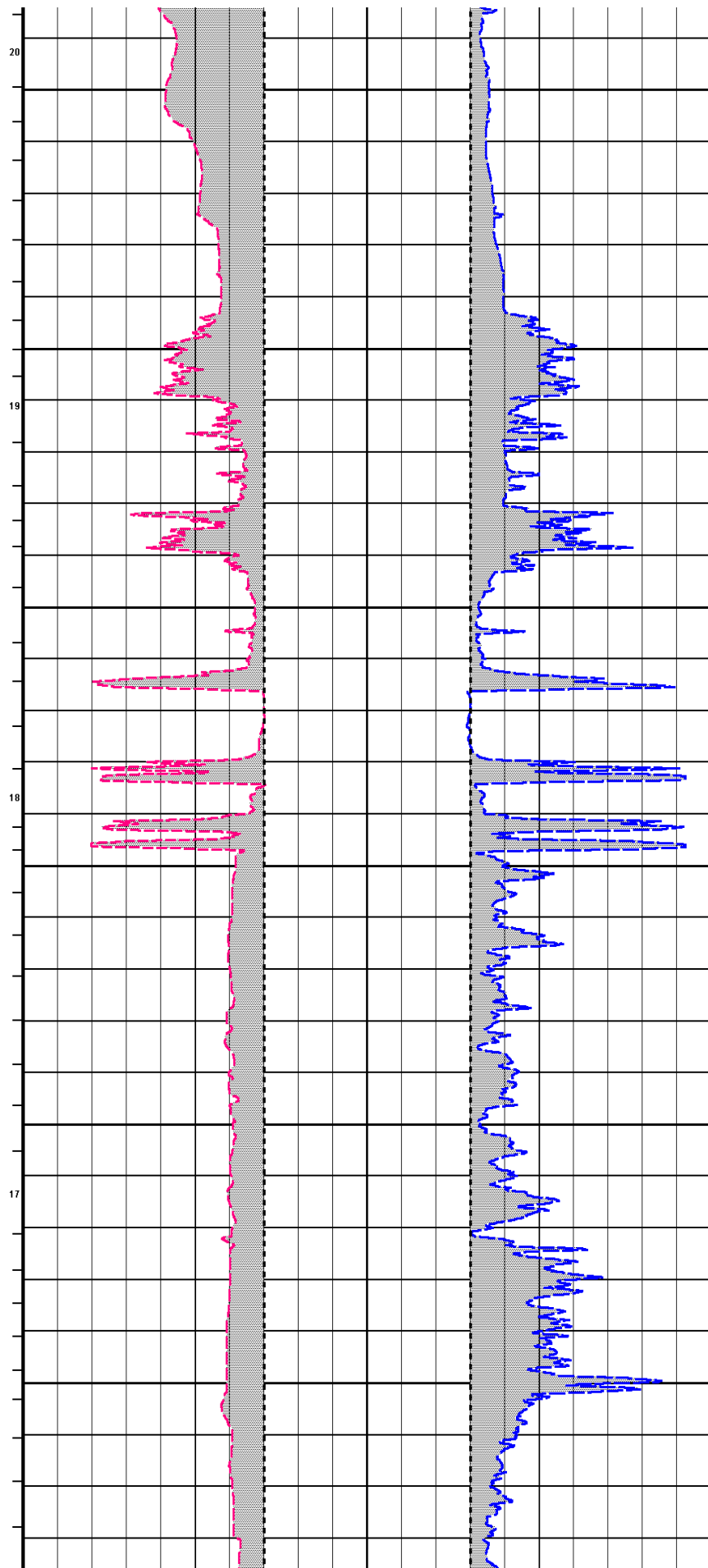
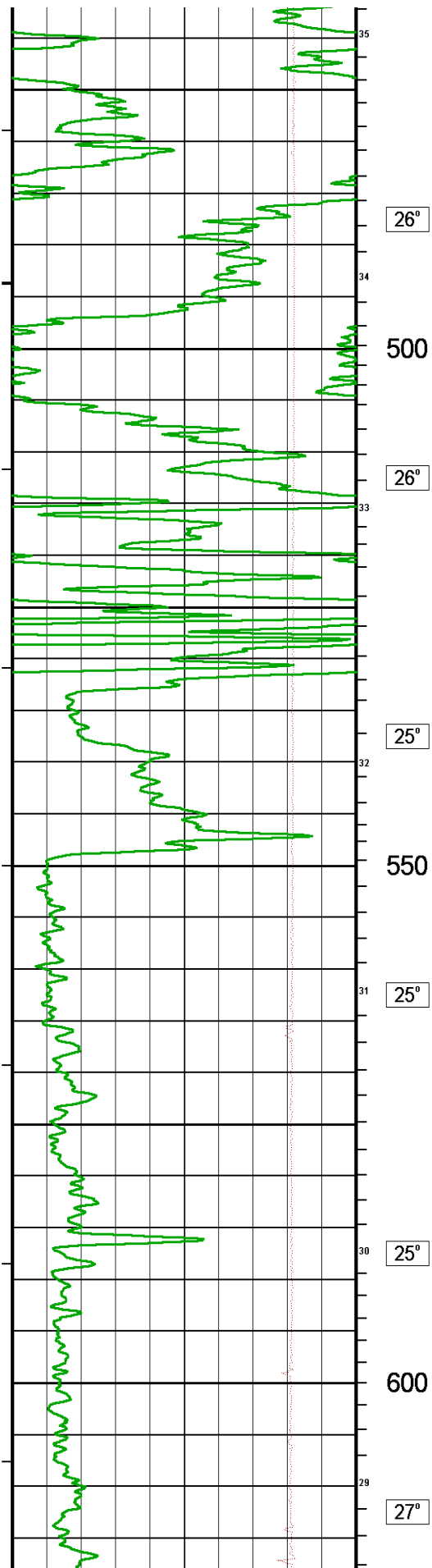
HOLE VOLUME = 37.4 CU.M.

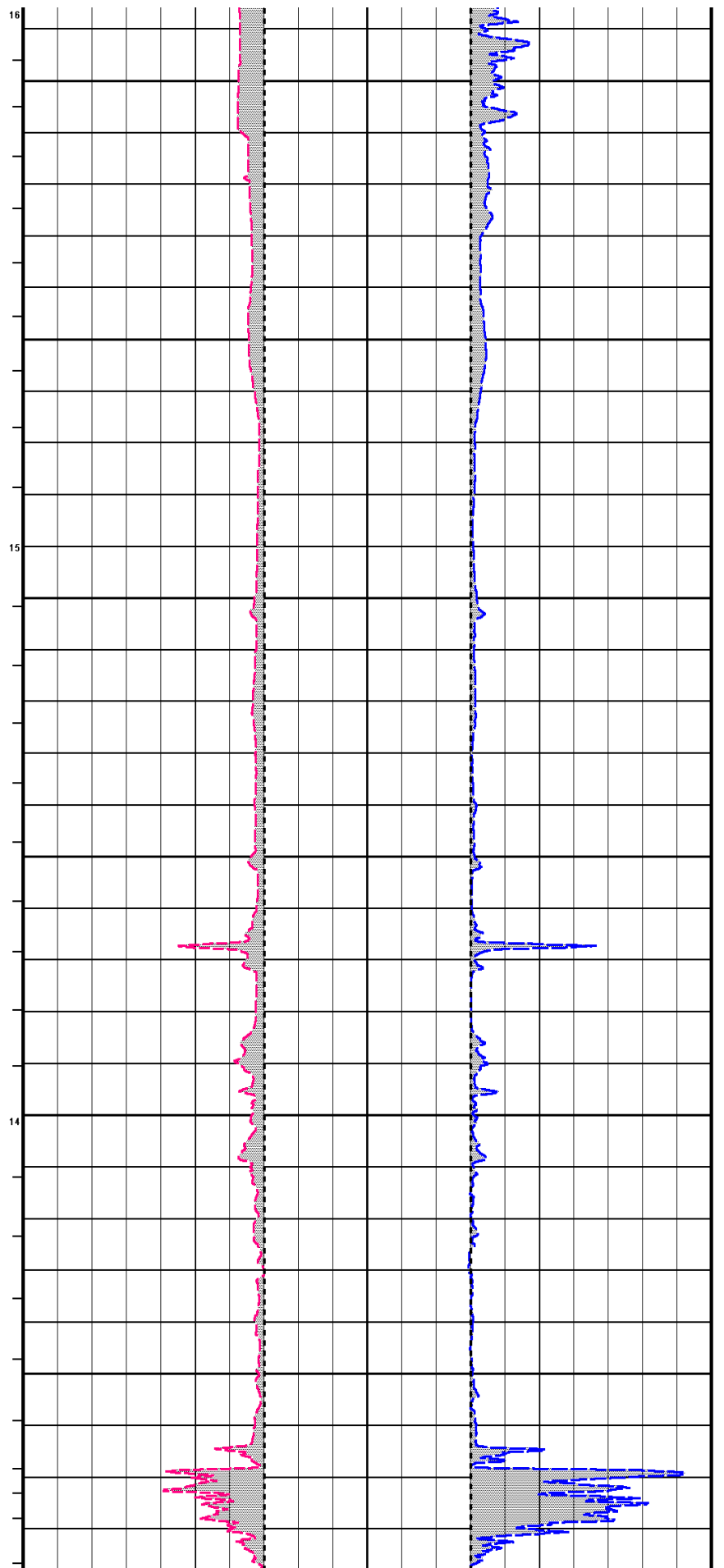
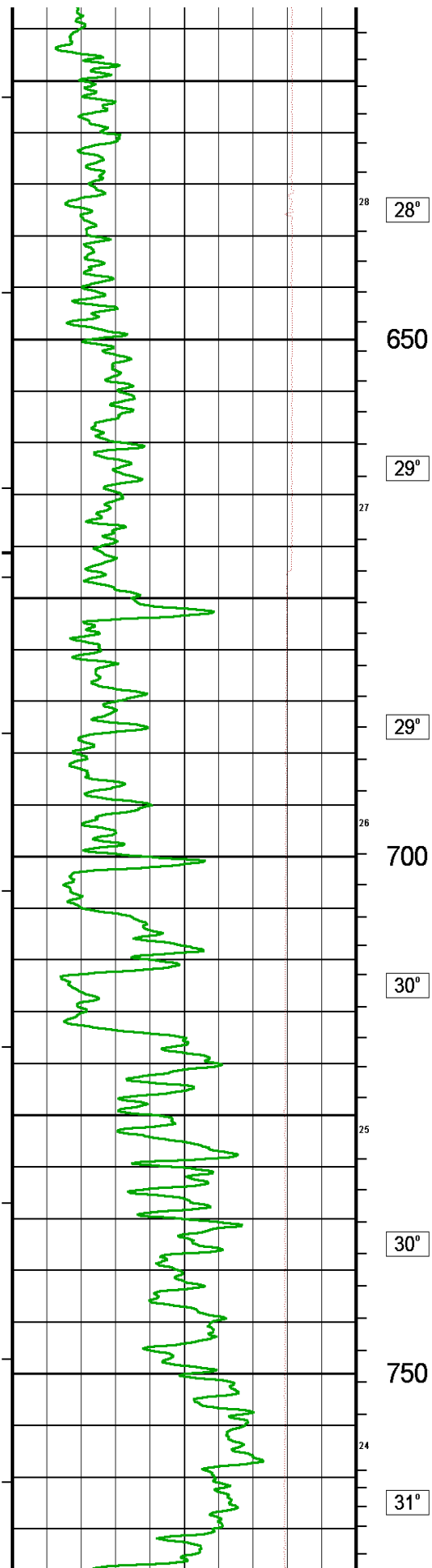
ANNULAR VOLUME USING 139.7 MM PRODUCTION CASING = 21.8 CU.M

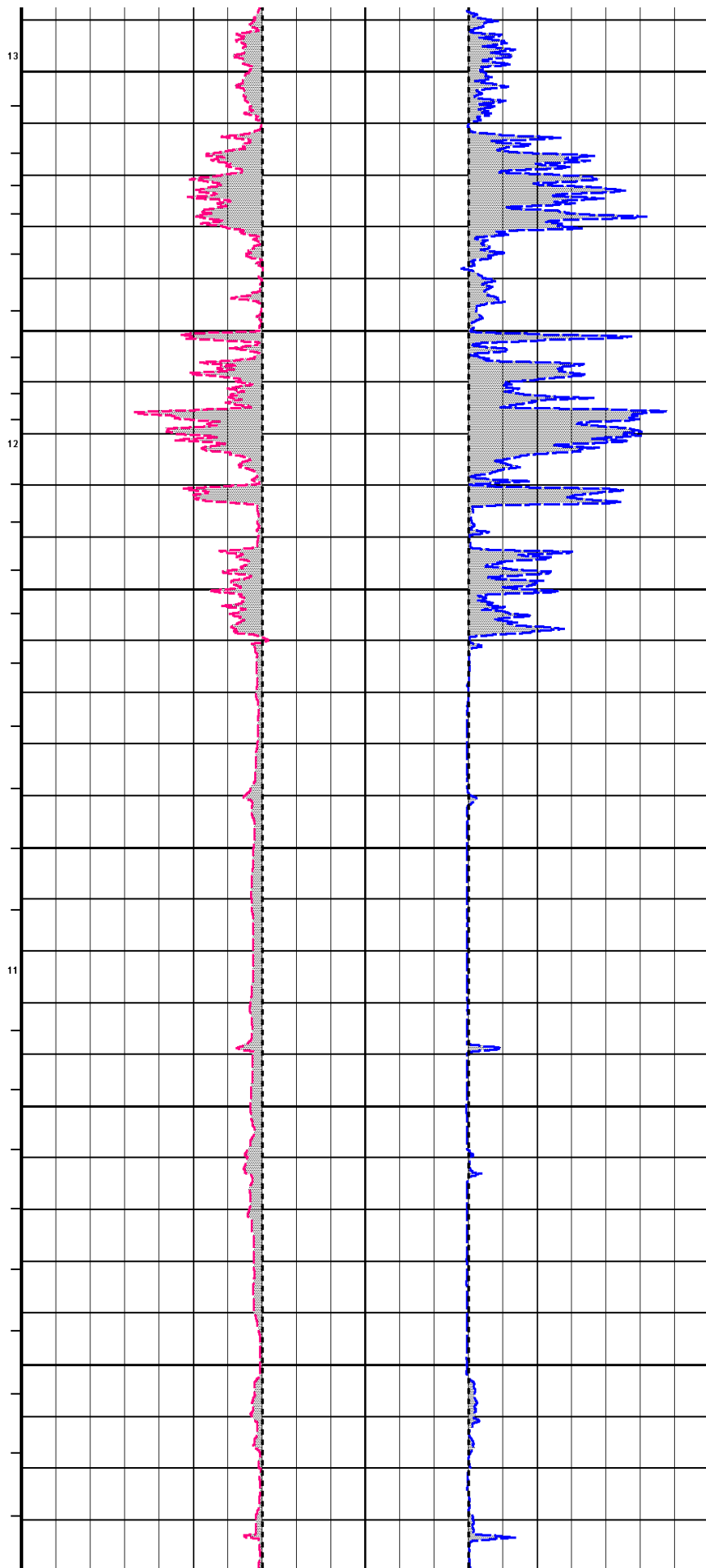
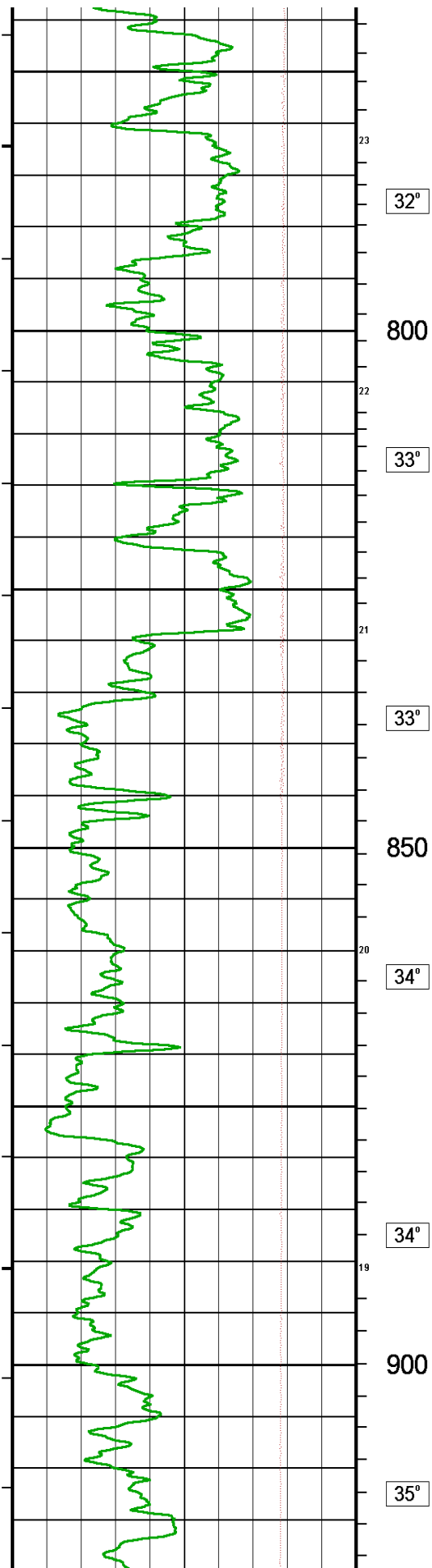
8) SONIC FREE PIPE FOUND FROM 352M - 357M

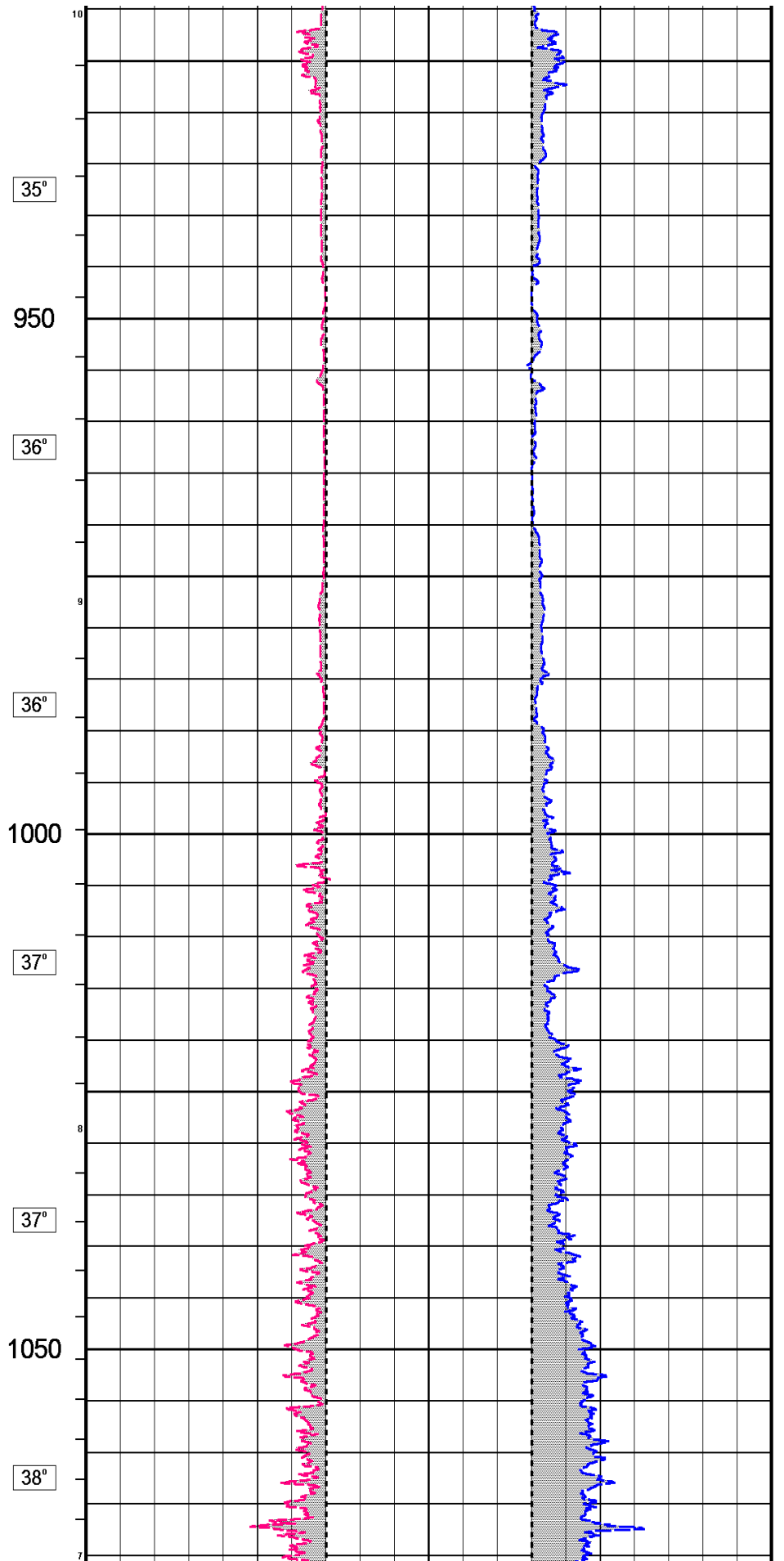
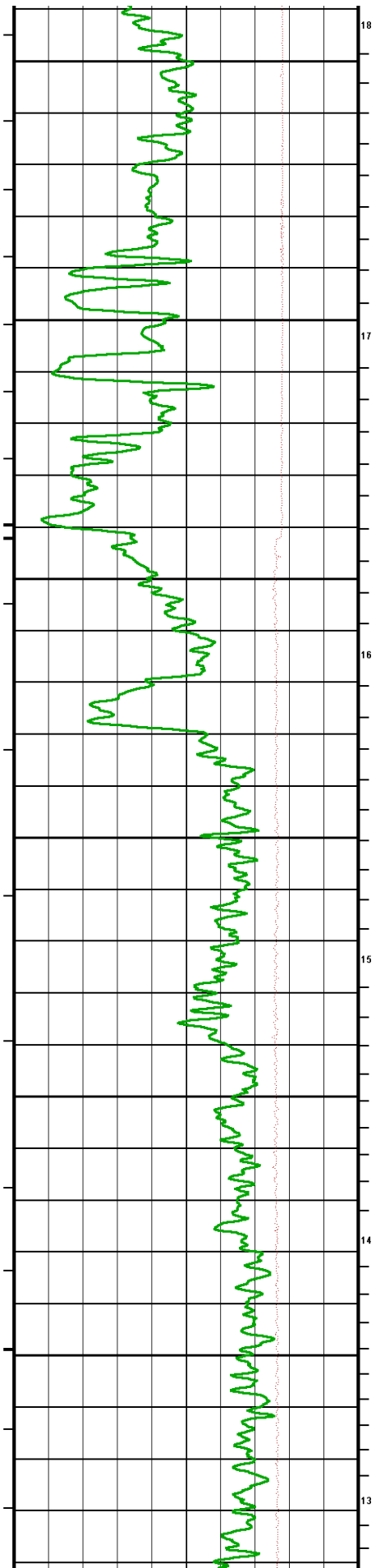
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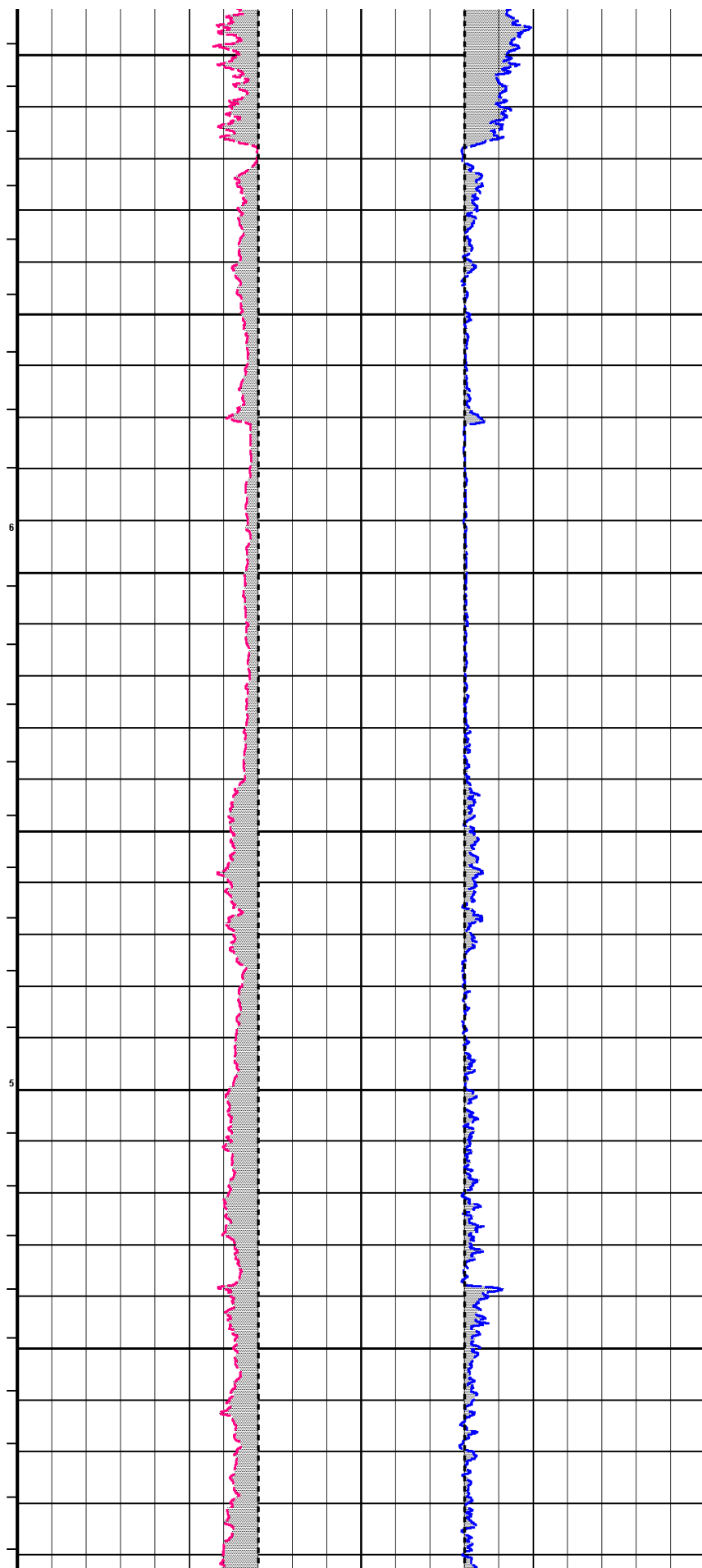
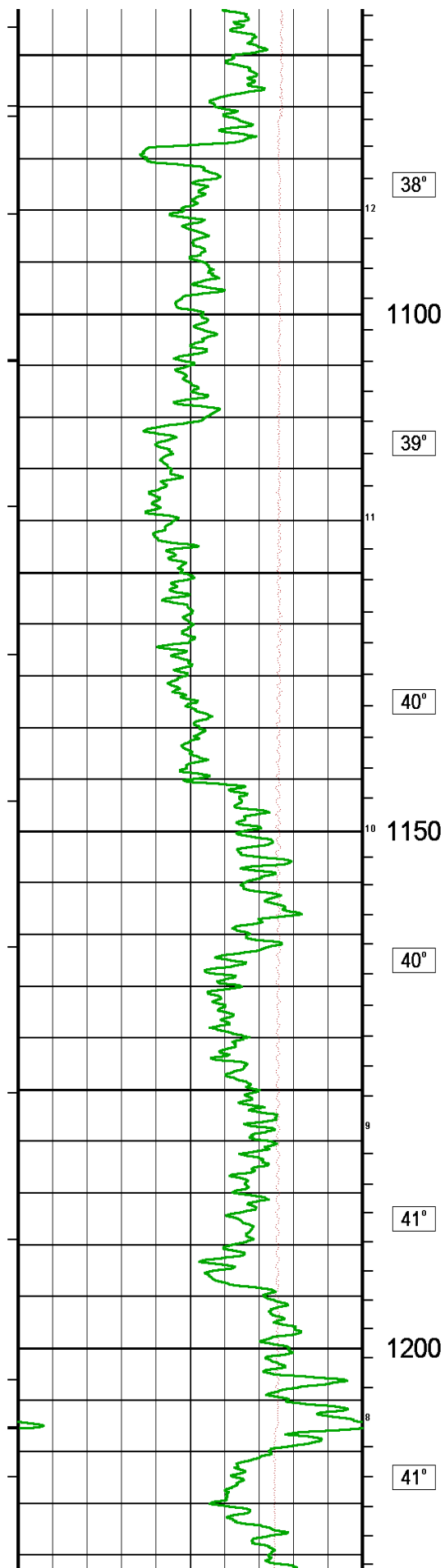


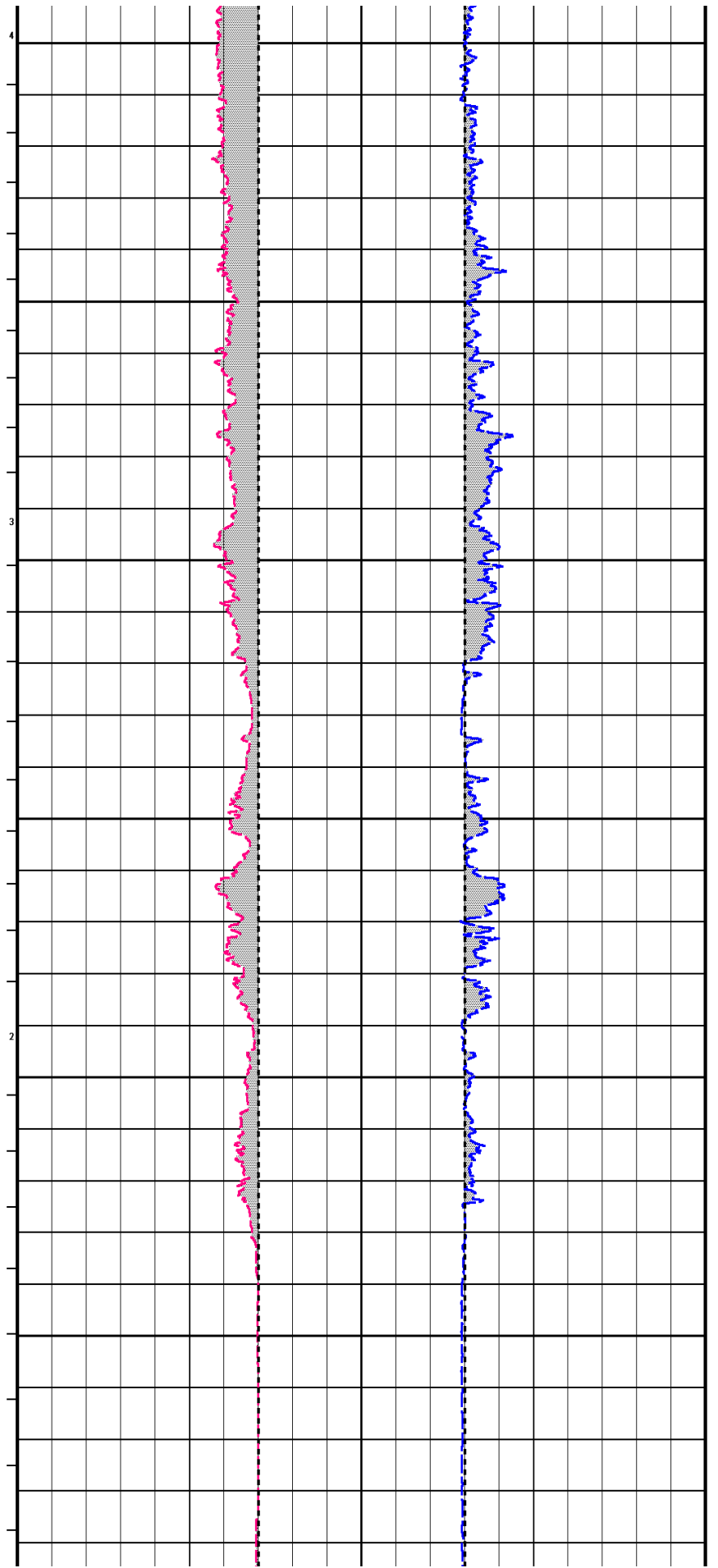
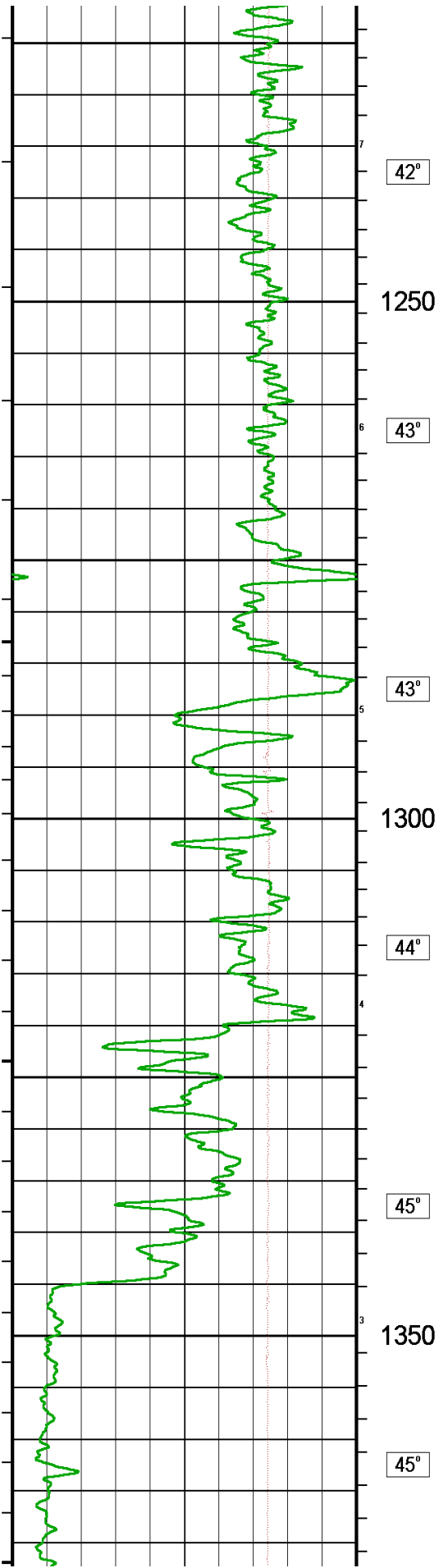


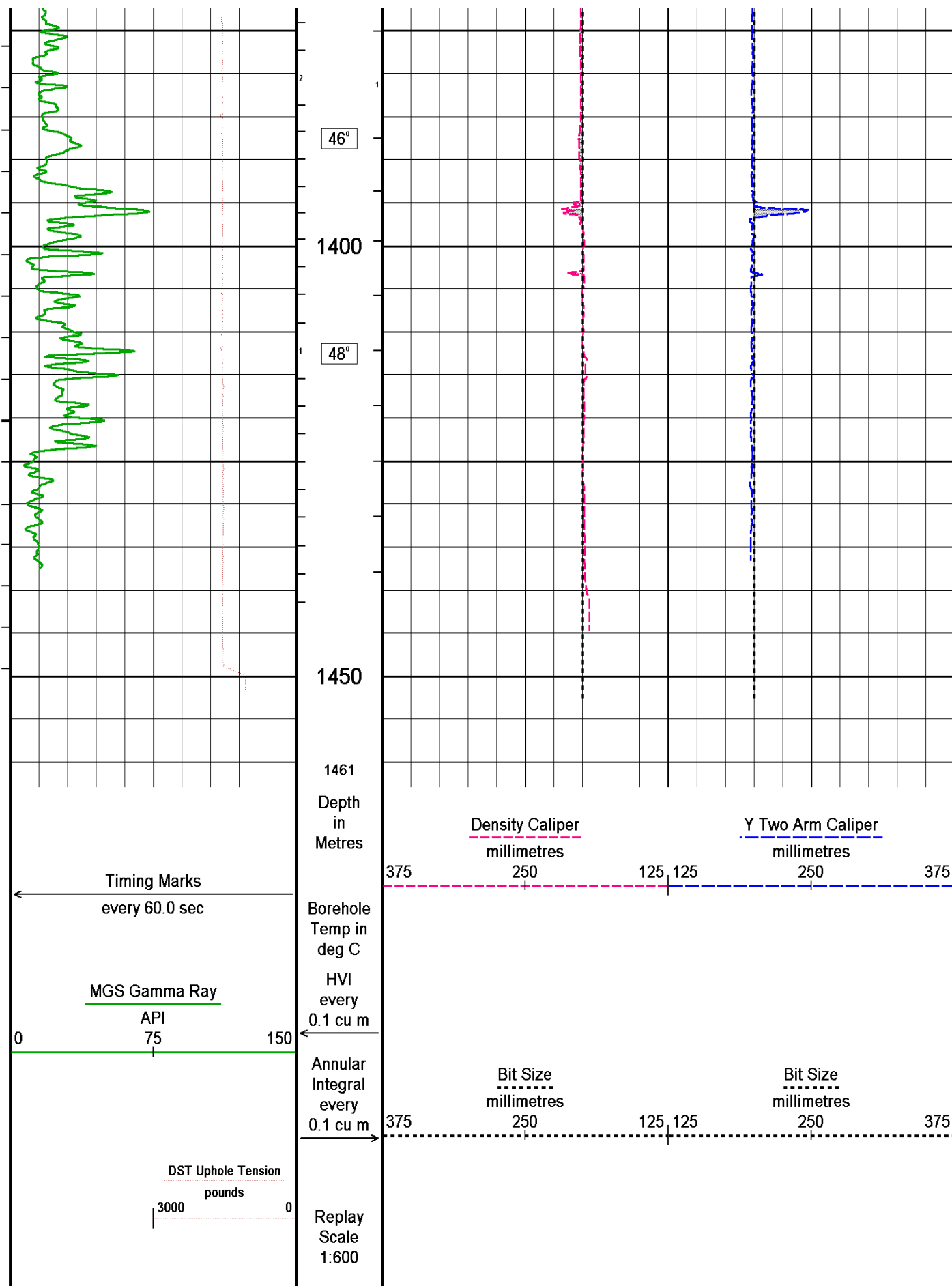












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HOLE VOLUMES USING 139.7mm PRODUCTION CASING

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COMPANY	PARAMOUNT RESOURCES LTD.				
WELL	PARAMOUNT ET AL CAMERON J-04				
FIELD	CAMERON HILLS				
PROVINCE/COUNTY	NORTH WEST TERRITORIES				
COUNTRY/STATE	CANADA				
Elevation Kelly Bushing	769.20	metres	First Reading	1441.60	metre
Elevation Drill Floor		metres	Depth Driller	1449.00	metres
Elevation Ground Level	765.20	metres	Depth Logger	1449.50	metres

**Weatherford®**

CEMENT VOLUME

PROD. CSG. 139.7 MM



PHOTO DENSITY DUAL SPACED NEUTRON

COMPANY	PARAMOUNT RESOURCES LTD.			
WELL	PARAMOUNT ET AL CAMERON J-04			
FIELD	CAMERON HILLS			
PROVINCE/COUNTY	NORTH WEST TERRITORIES			
COUNTRY/STATE	CANADA			
LOCATION	300/J-04-60-10-117-30 FIELD PRINT			
LSD	SEC	TWP	RGE	Other Services
				ARRAY INDUCTION
API Number				MICROLOG
Permit Number 1159				COMPENSTATED SONIC
Permanent Datum GROUND LEVEL, Elevation 765.20 metres				Elevations: metres
Log Measured From 4.00 M above Permanent Datum				KB 769.20
Drilling Measured From KB				DF
				GL 765.20
Date	15-FEB-2007			
Run Number	1			
Depth Driller	1449.00	metres		
Depth Logger	1449.50	metres		
First Reading	1441.60	metre		
Last Reading	0.00	metre		
Casing Driller	430.00	metres		
Casing Logger	429.80	metres		
Bit Size	200.00	mm		
Hole Fluid Type	GELCHEM			
Density / Viscosity	1060.0 kg/M3	93.00 CP		
PH / Fluid Loss	11.00	11.00 ml/30Min		
Sample Source	FLOWLINE			
Rm @ Measured Temp	1.18 @ 25.0	ohm-m		
Rmf @ Measured Temp	1.04 @ 25.0	ohm-m		
Rmc @ Measured Temp	1.32 @ 25.0	ohm-m		
Source Rmf / Rmc	PRESS	FILTER		
Rm @ BHT	0.78 @ 48.0	ohm-m		
Time Since Circulation	6 HRS			
Max Recorded Temp	48.00	deg C		
Equipment Name	COMPACT			
Equipment / Base	13124	GPR		
Recorded By	G. SINGER			
Witnessed By	A. AHMED			
CIRC. STOP TIME	01:30-FEB-15	Last Line		

BOREHOLE RECORD				Last Edited: 15-FEB-2007 05:01	
Bit Size millimetres	Depth From metres		Depth To metres		
311.000	0.00		430.00		
200.000	430.00		1449.00		
CASING RECORD					
Type	Size millimetres	Depth From metres	Shoe Depth metres	Weight Kg/metre	
SURFACE	219.100	0.00	430.00	35.72	

REMARKS

- 1) SOFTWARE ISSUE: WLS 7.01.0195.
- 2) CUSTOMER SCALES AND LOGGED INTERVALS USED
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MTC: SIX LEAF CENTRALIZER

- 5) SERVICE ORDER #: 30073028 SAP #: 4147101 # FIELD PRINTS = 3
- 6) RIG: PD 129

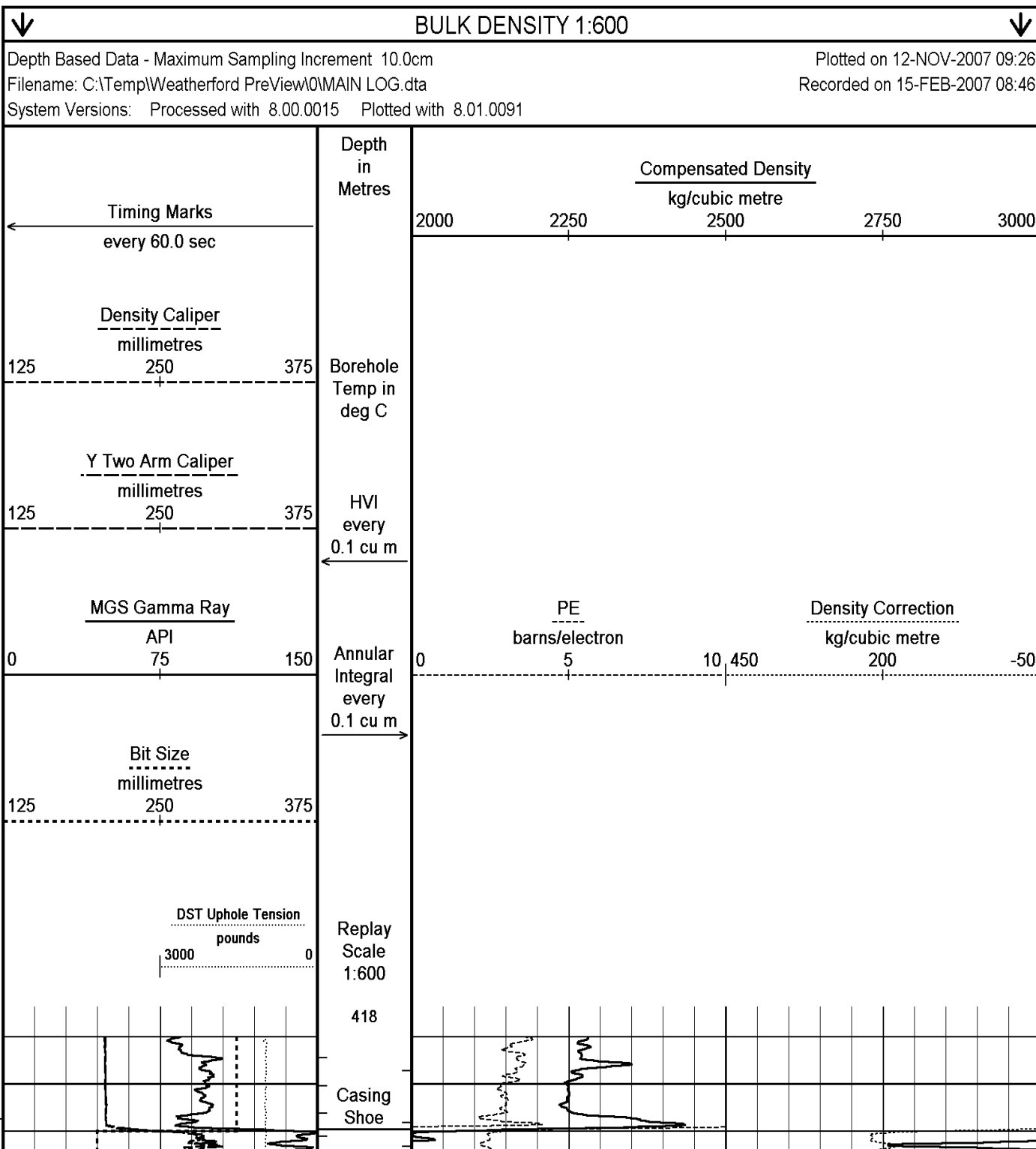
7) HOLE AND CEMENT VOLUMES CALCULATED USING DENSITY AND 2-ARM CALIPERS :

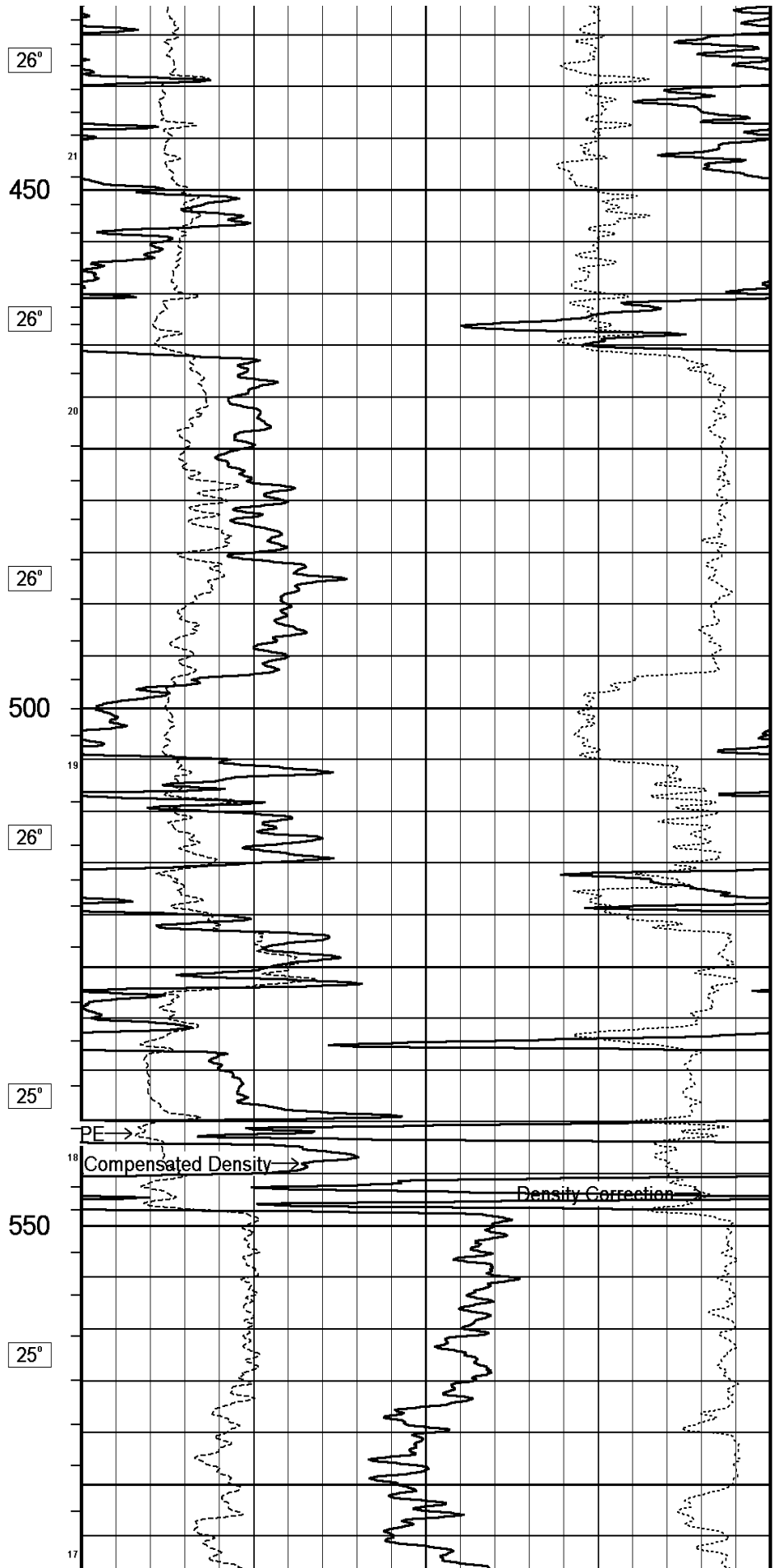
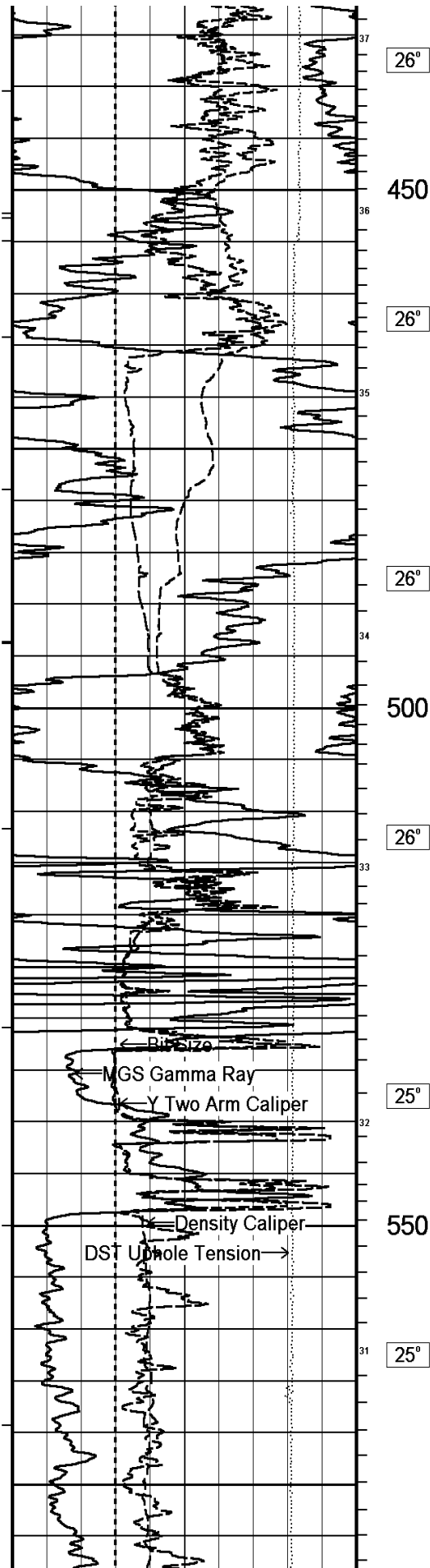
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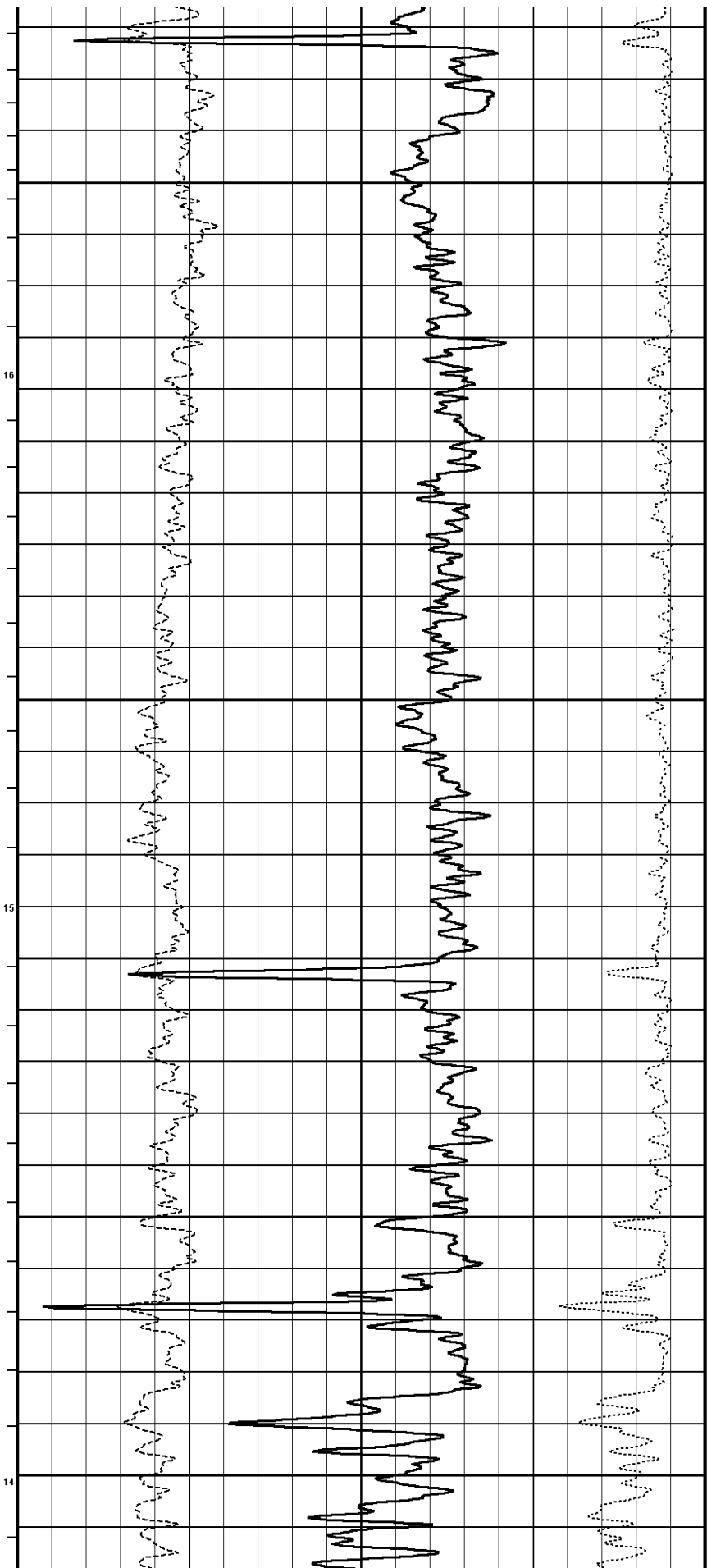
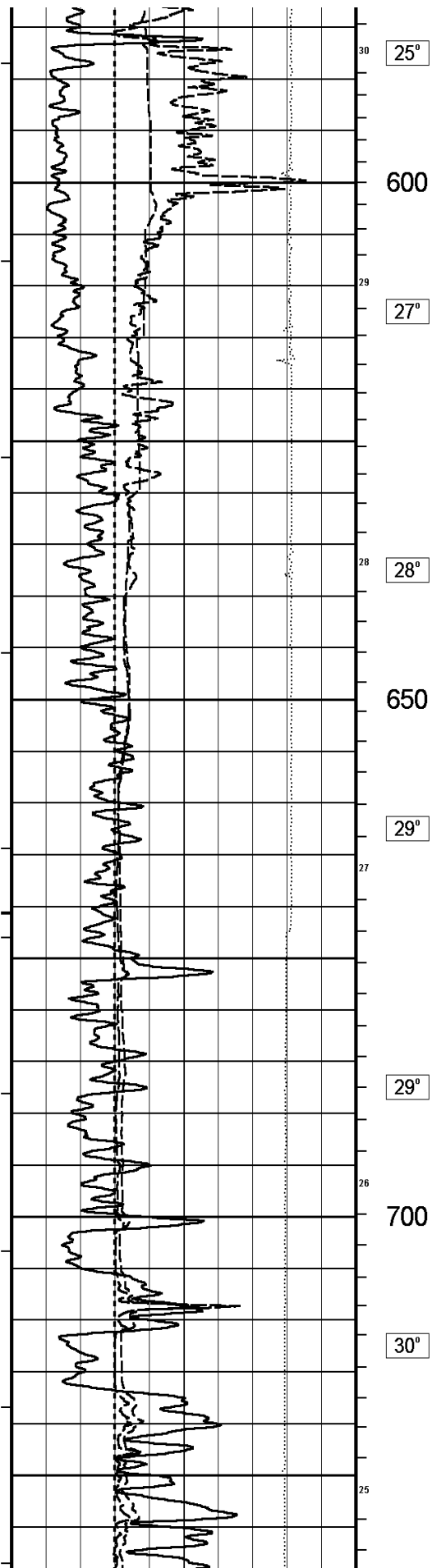
ANNULAR VOLUME USING 139.7 MM PRODUCTION CASING = 21.8 CU.M

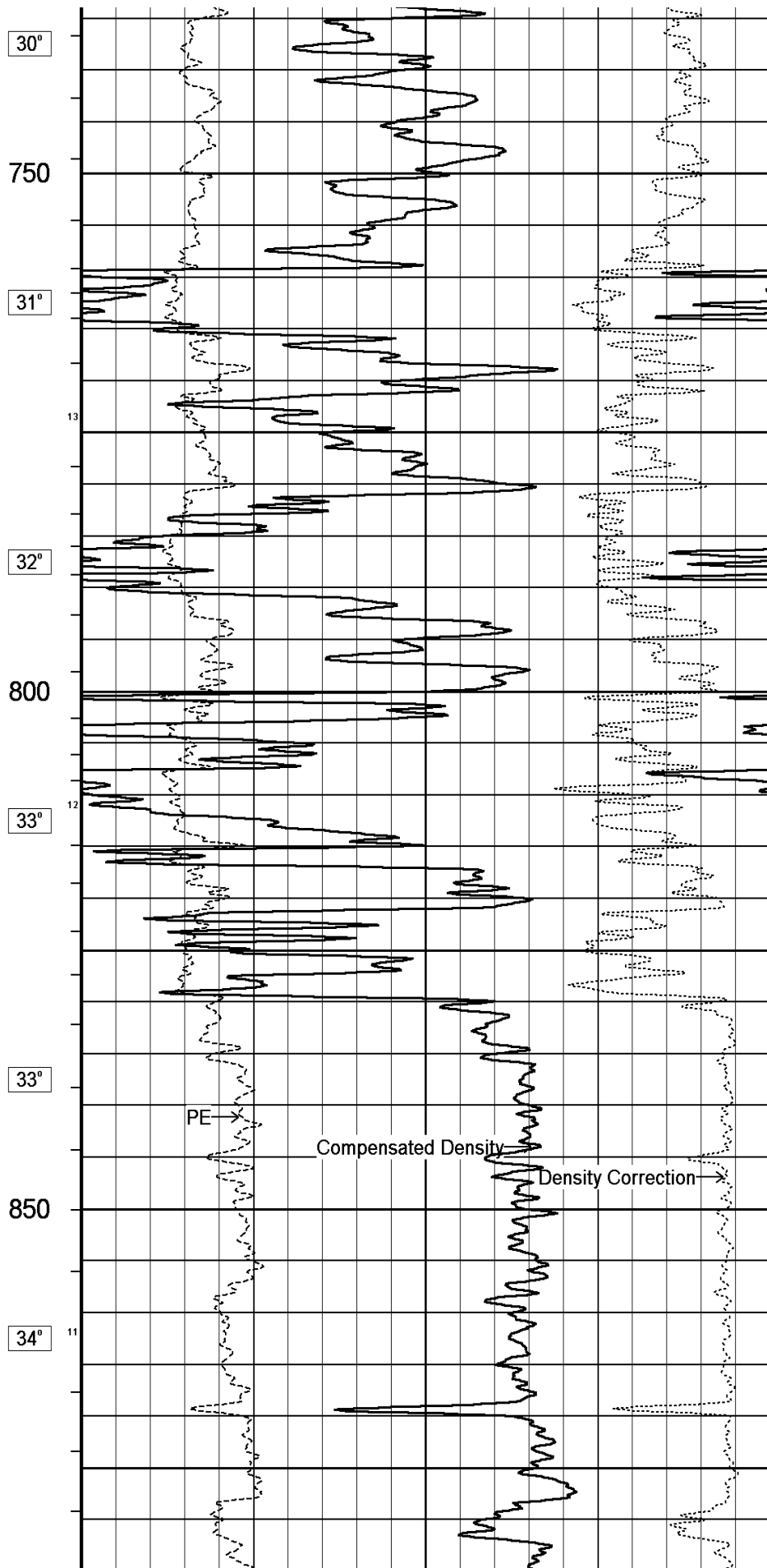
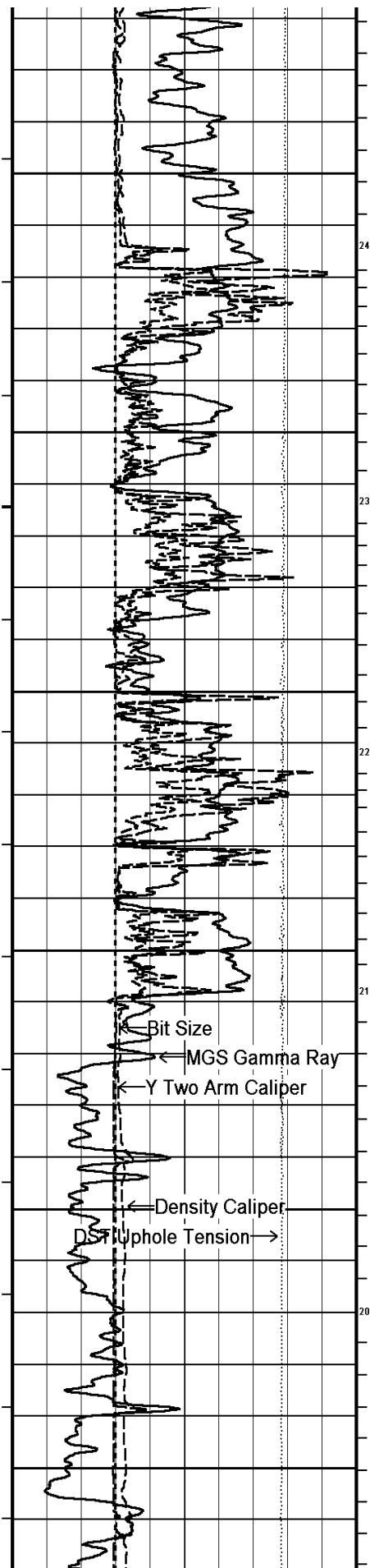
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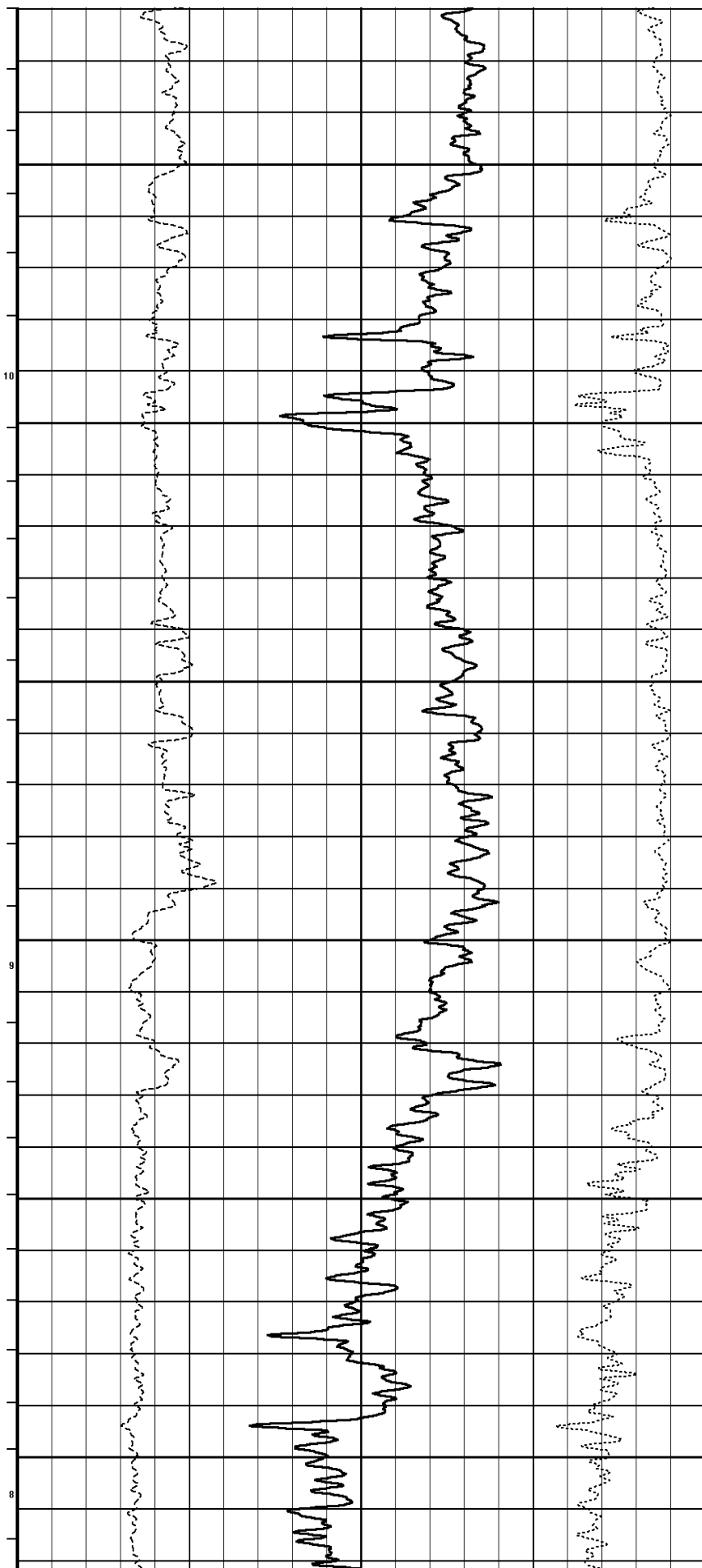
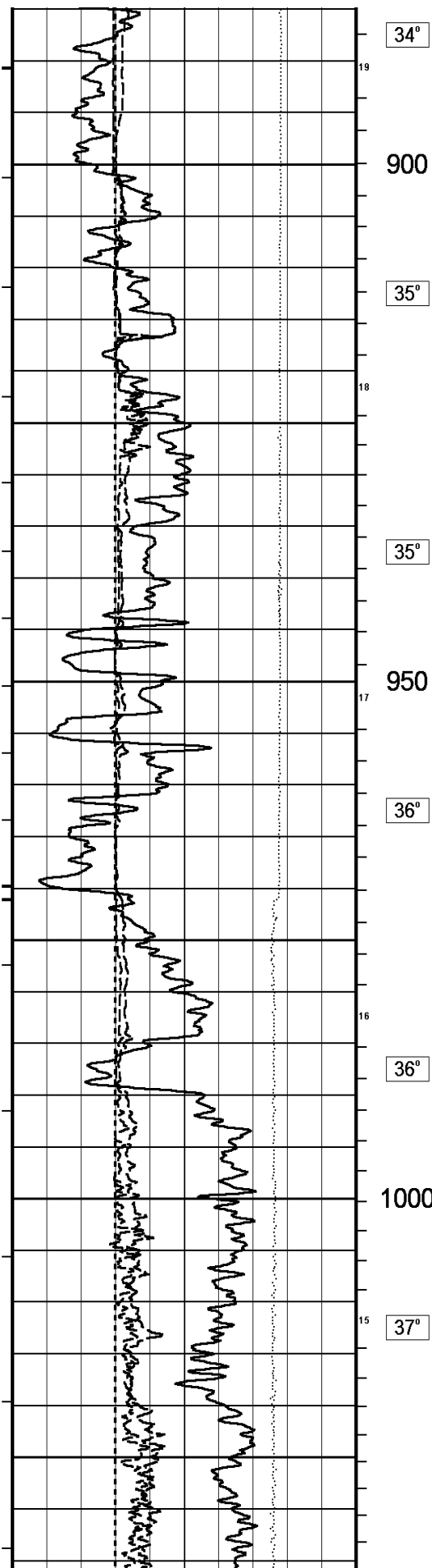
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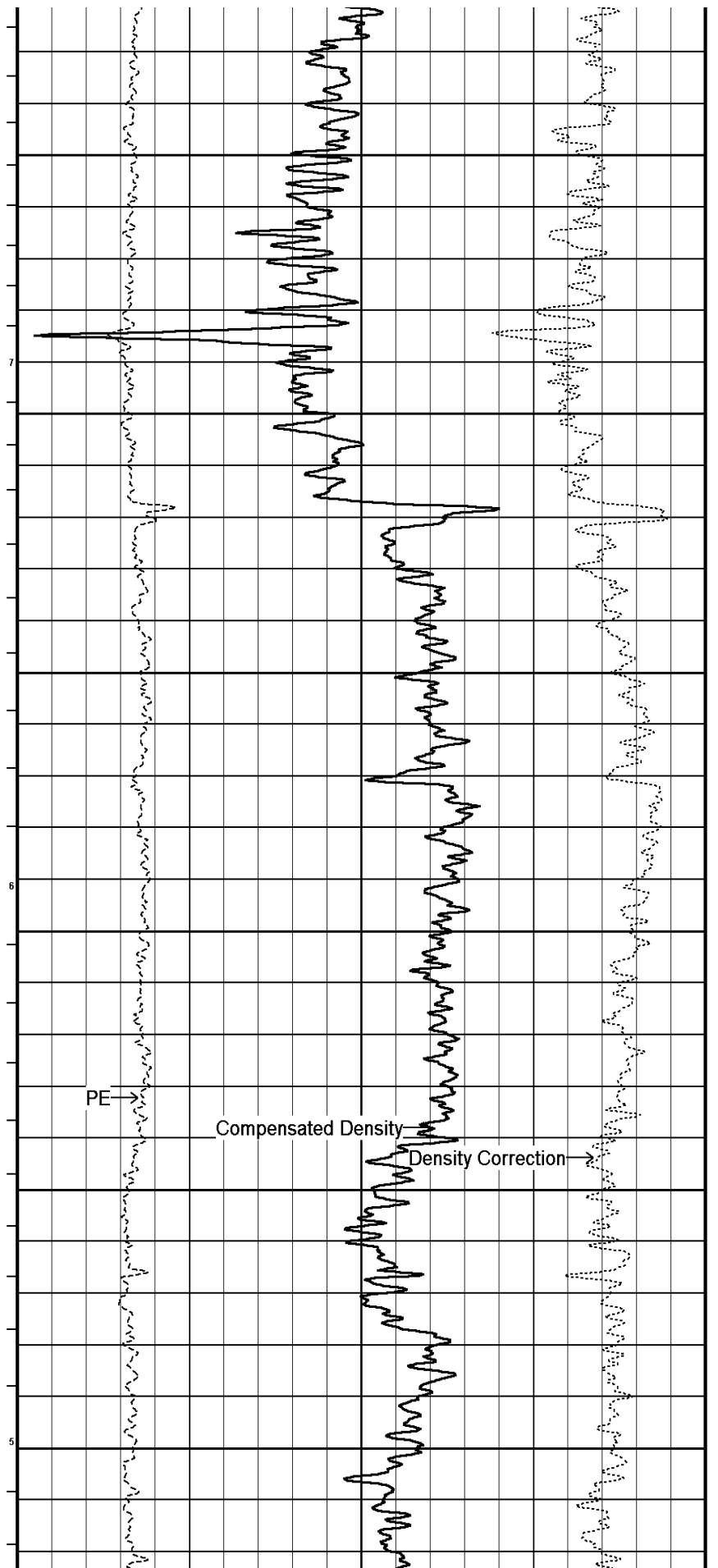
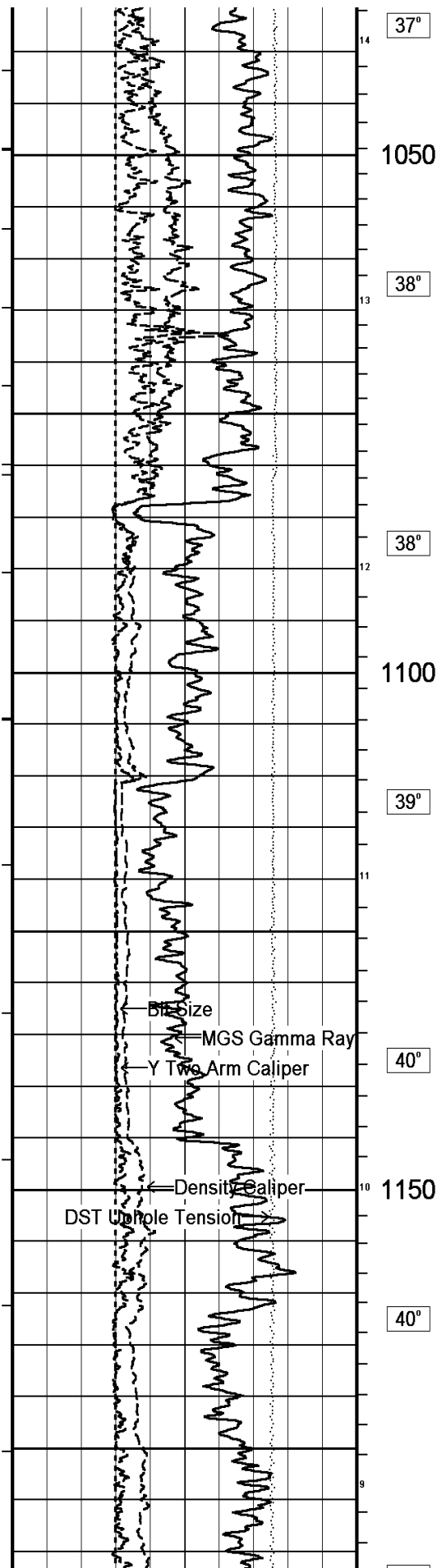


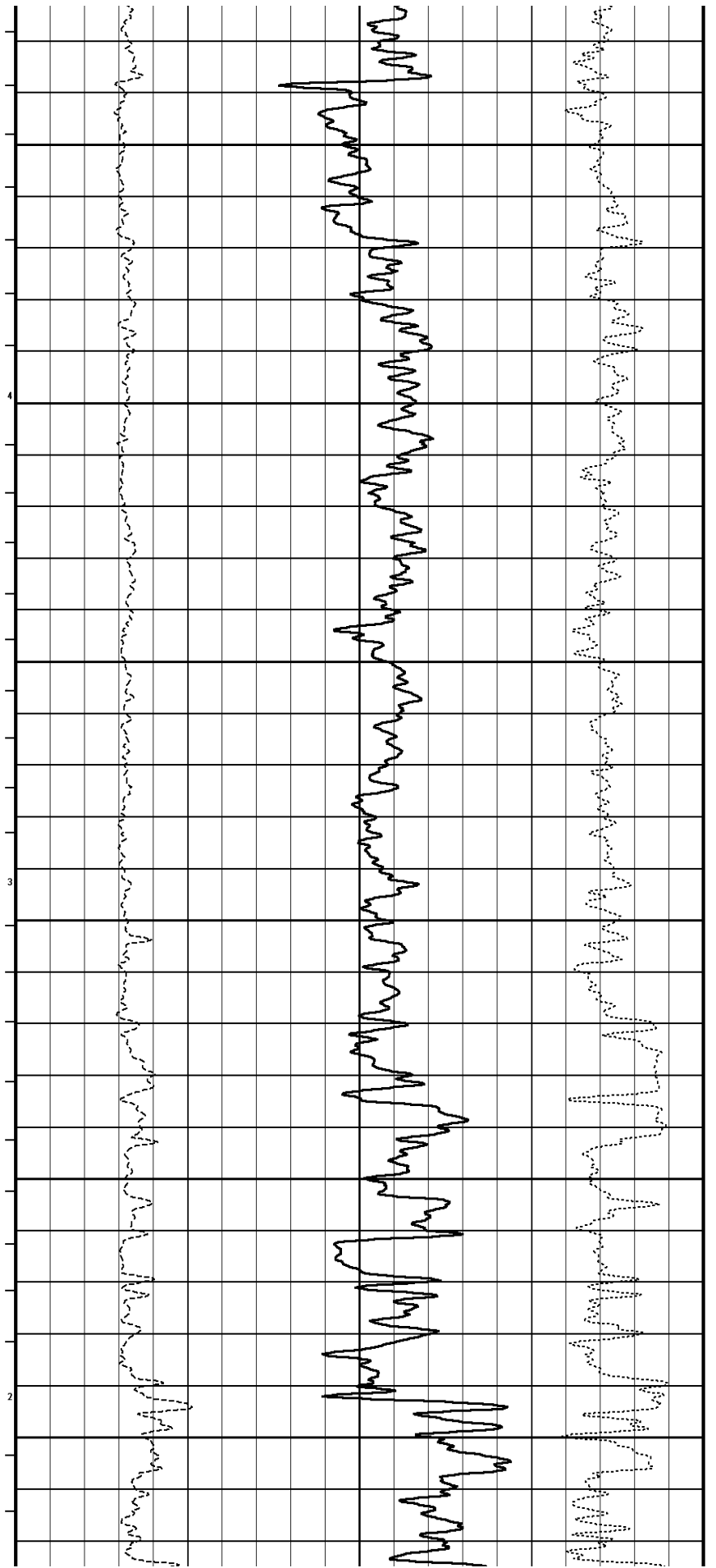
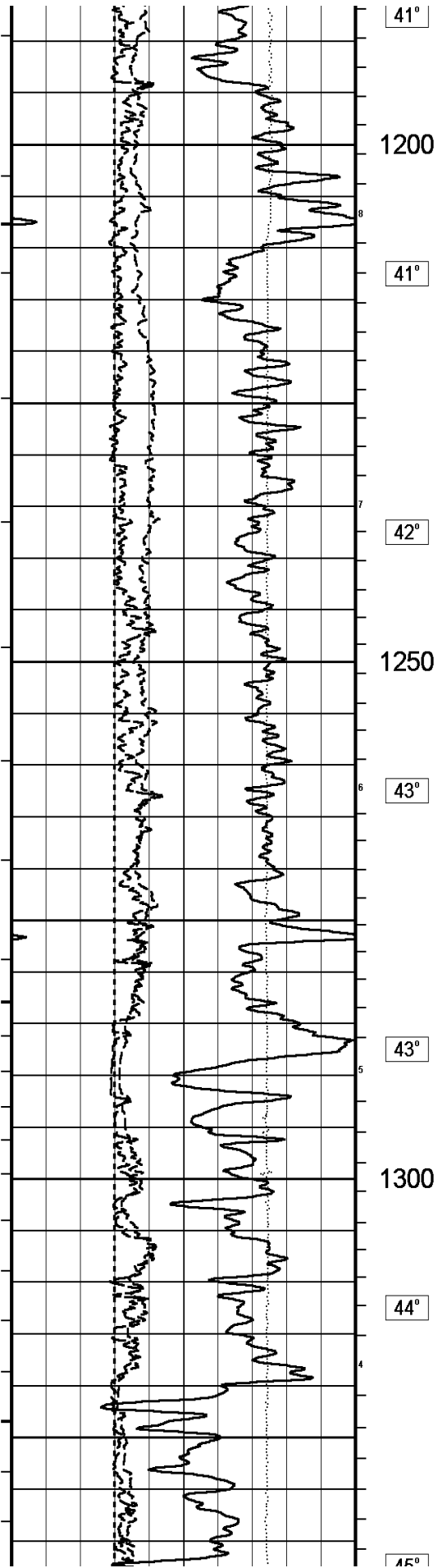


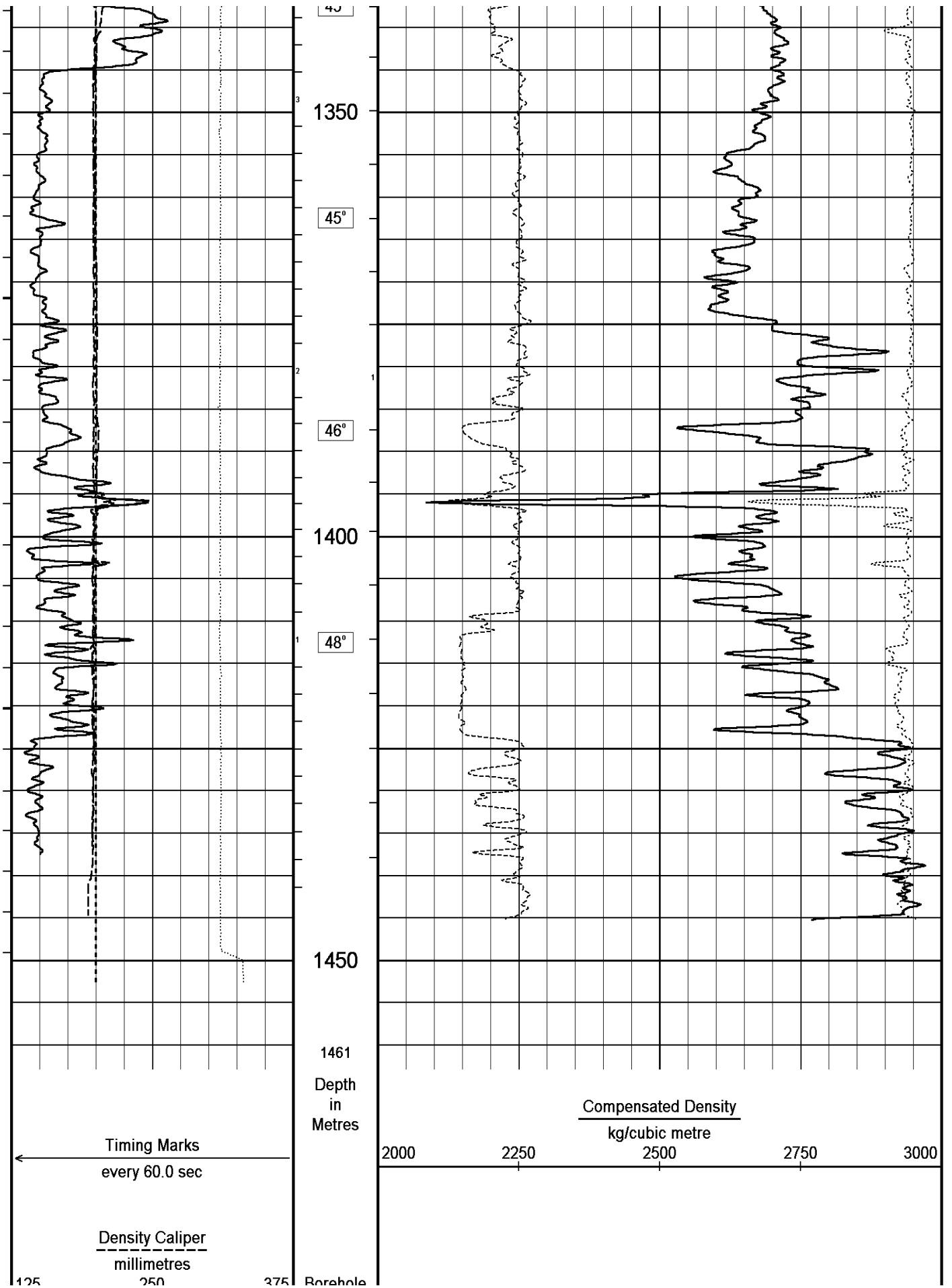


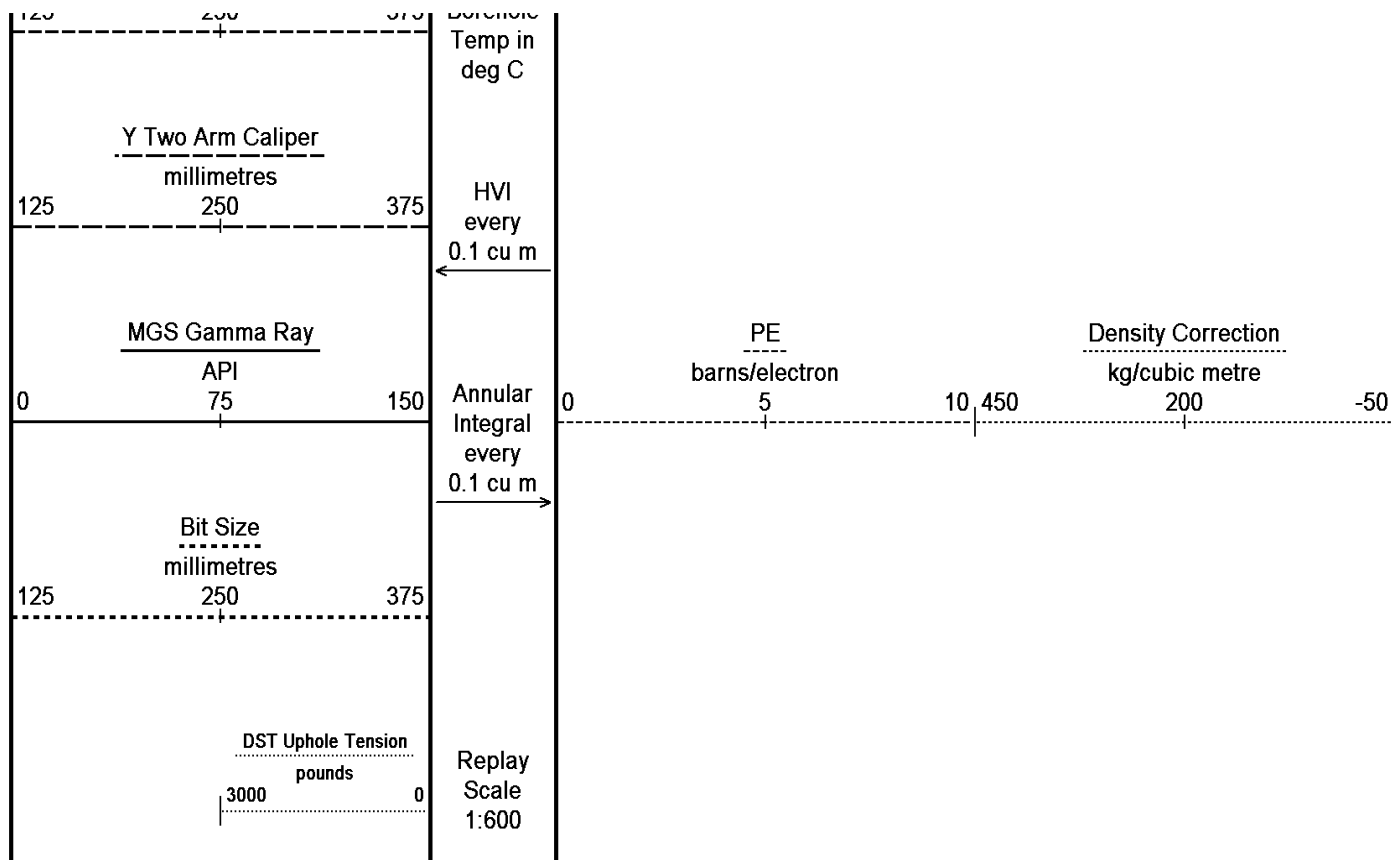












Depth Based Data - Maximum Sampling Increment 10.0cm

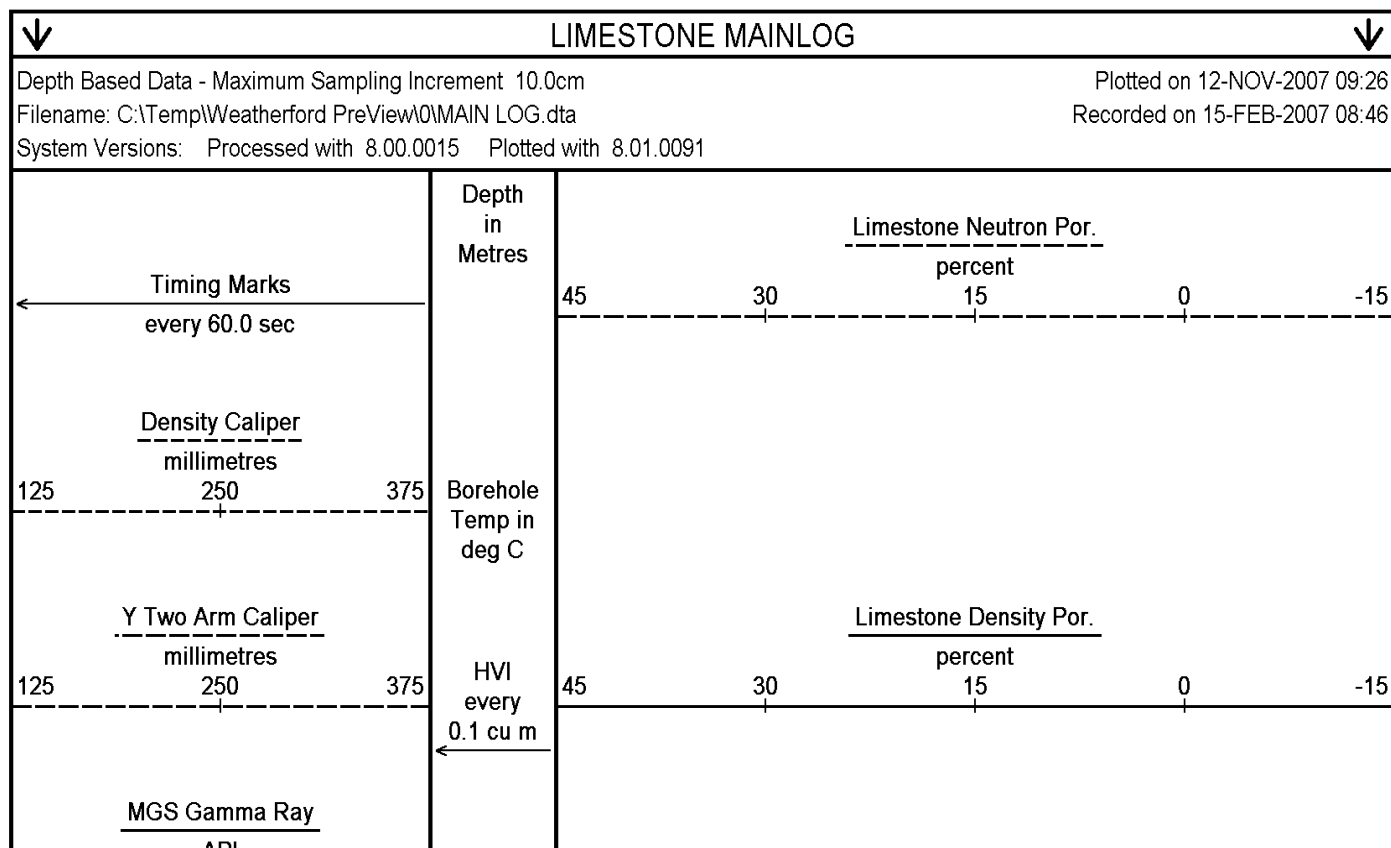
Plotted on 12-NOV-2007 09:26

Filename: C:\Temp\Weatherford PreView\0\MAIN LOG.dta

Recorded on 15-FEB-2007 08:46

System Versions: Processed with 8.00.0015 Plotted with 8.01.0091

↑ BULK DENSITY 1:600 ↑



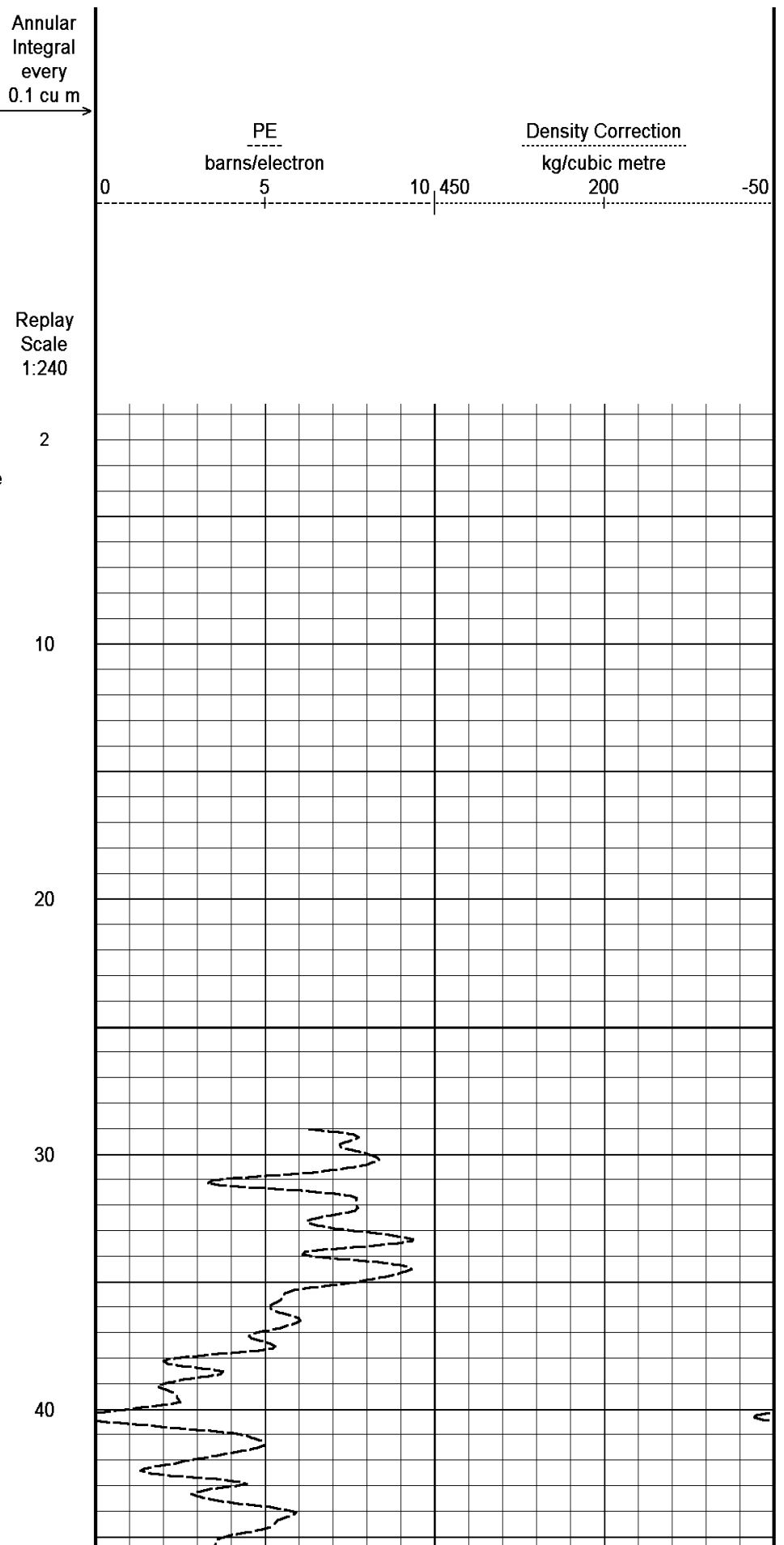
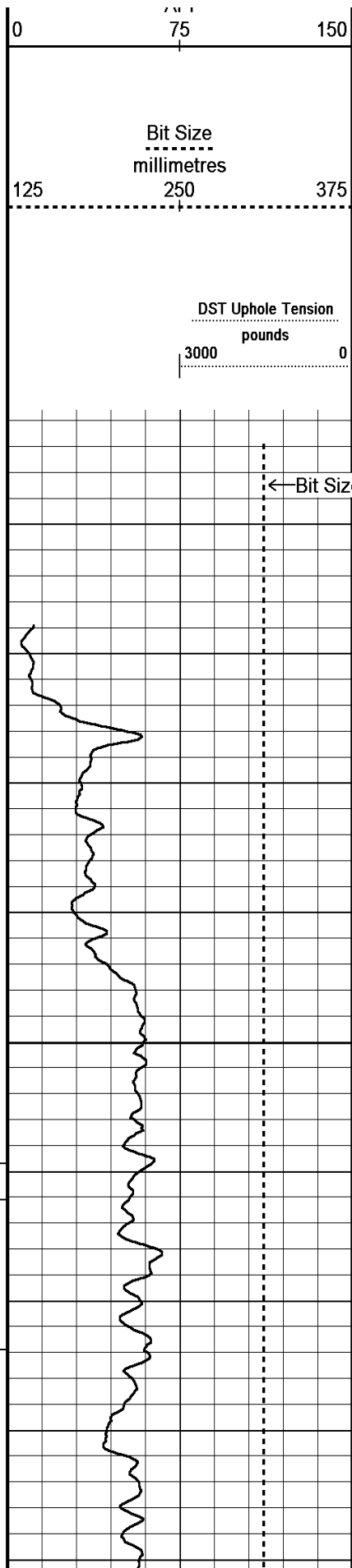
Depth Based Data - Maximum Sampling Increment 10.0cm

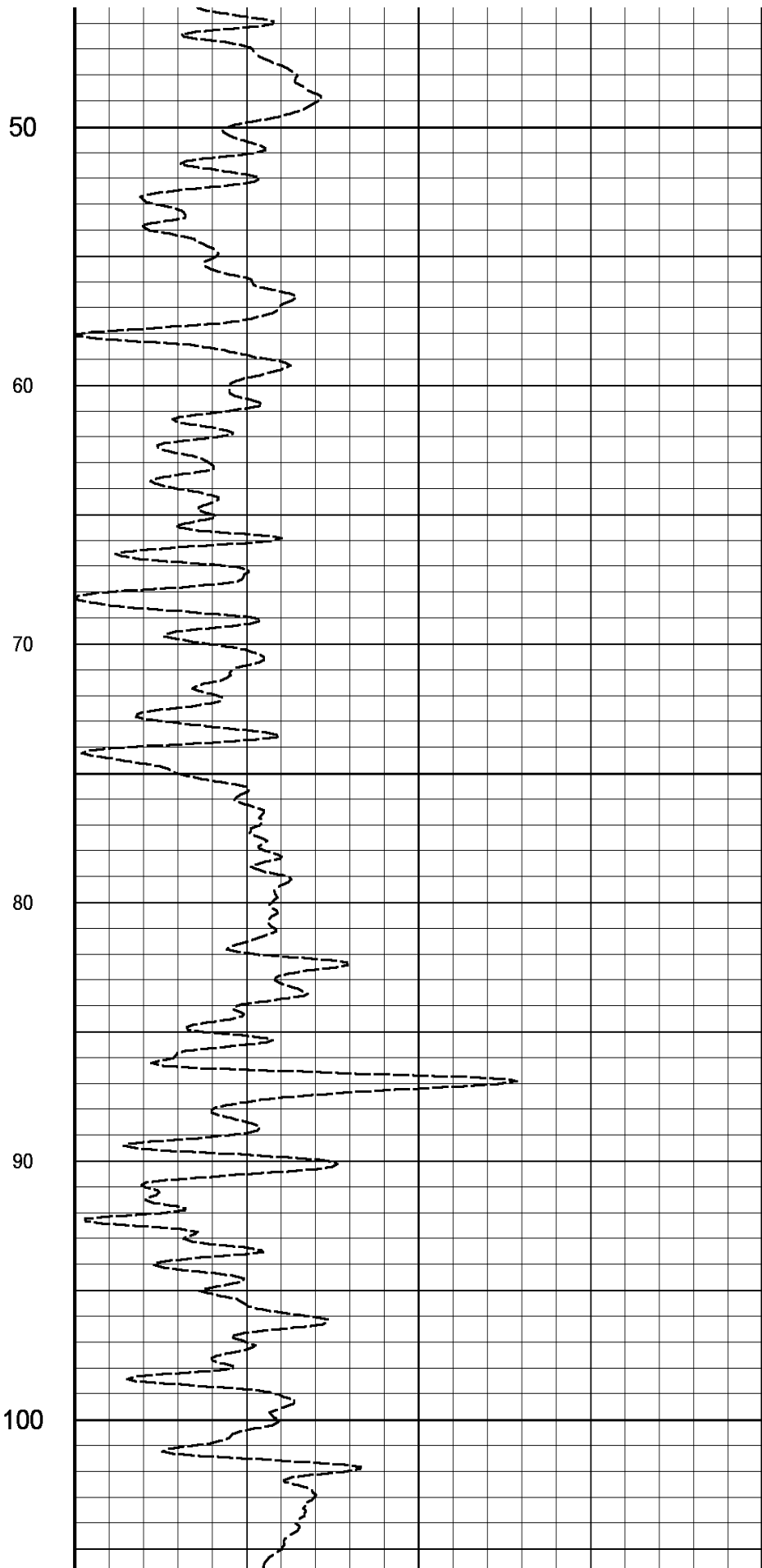
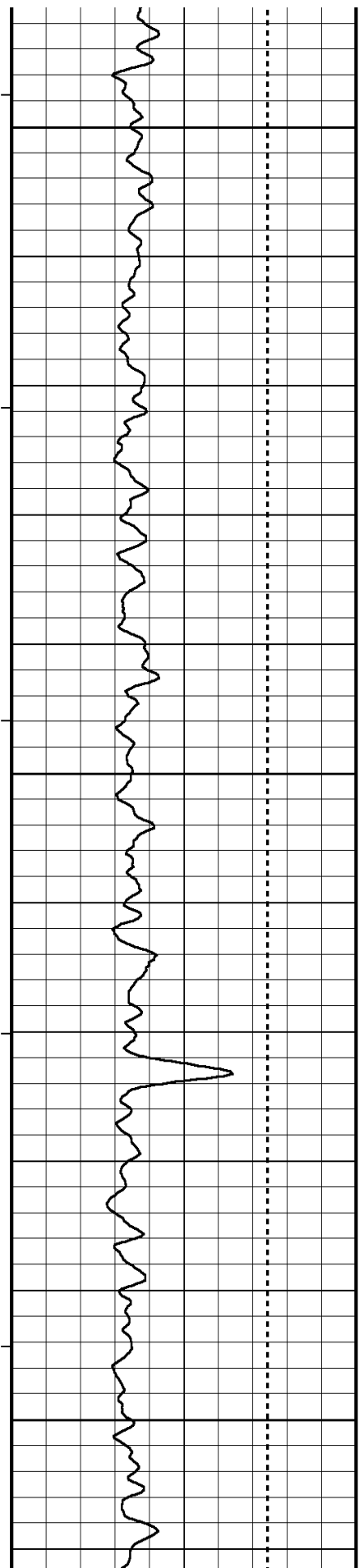
Plotted on 12-NOV-2007 09:26

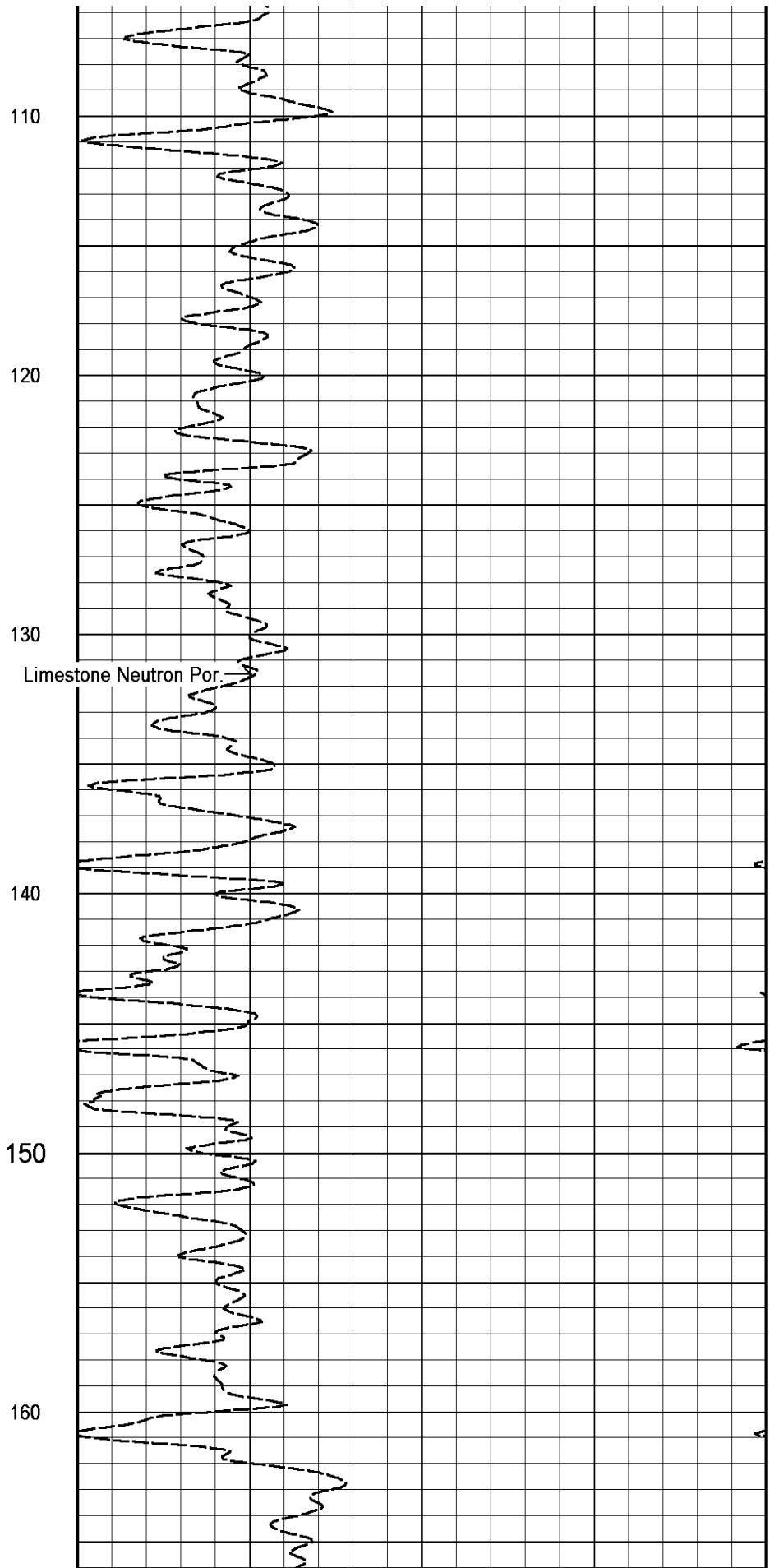
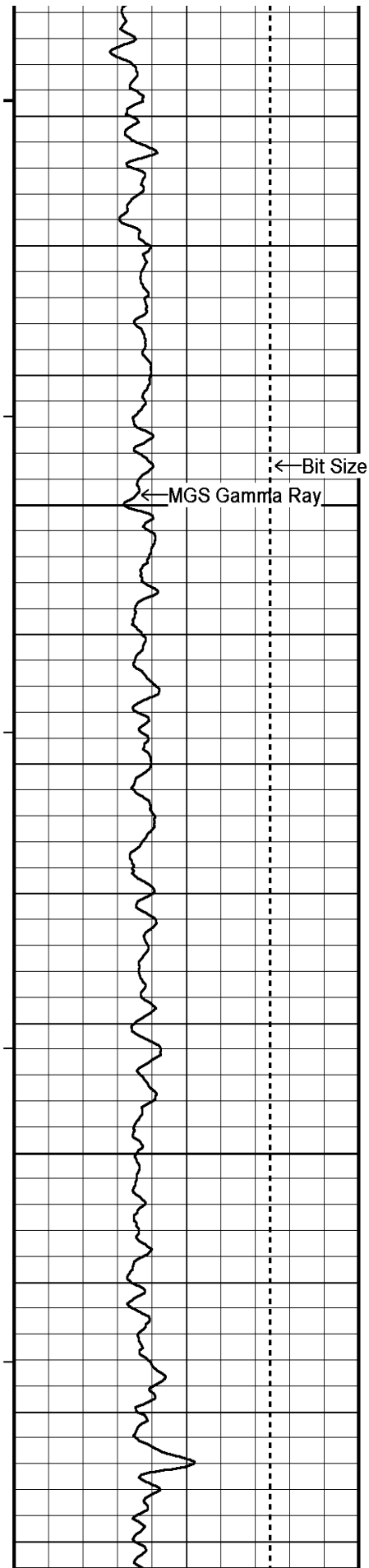
Filename: C:\Temp\Weatherford PreView\0\MAIN LOG.dta

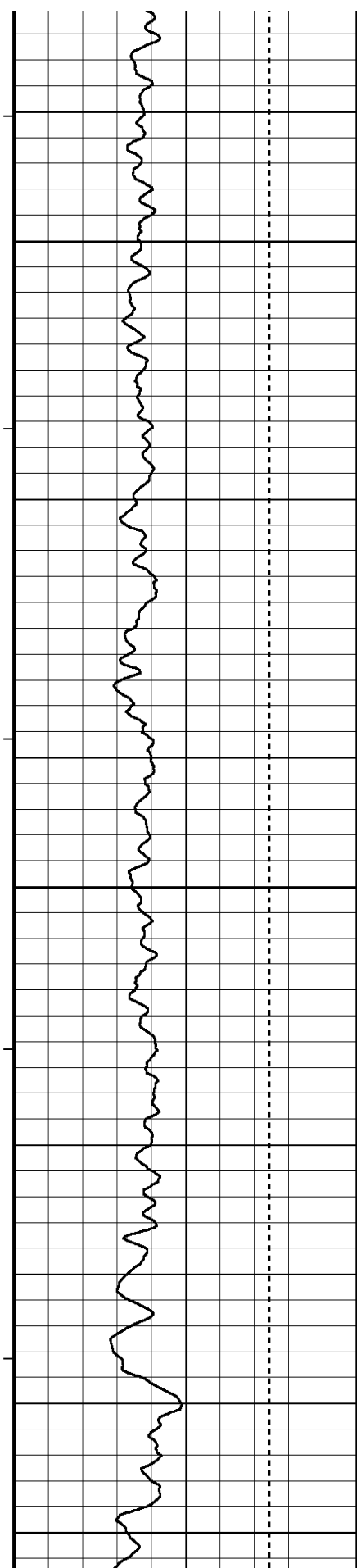
Recorded on 15-FEB-2007 08:46

System Versions: Processed with 8.00.0015 Plotted with 8.01.0091









170

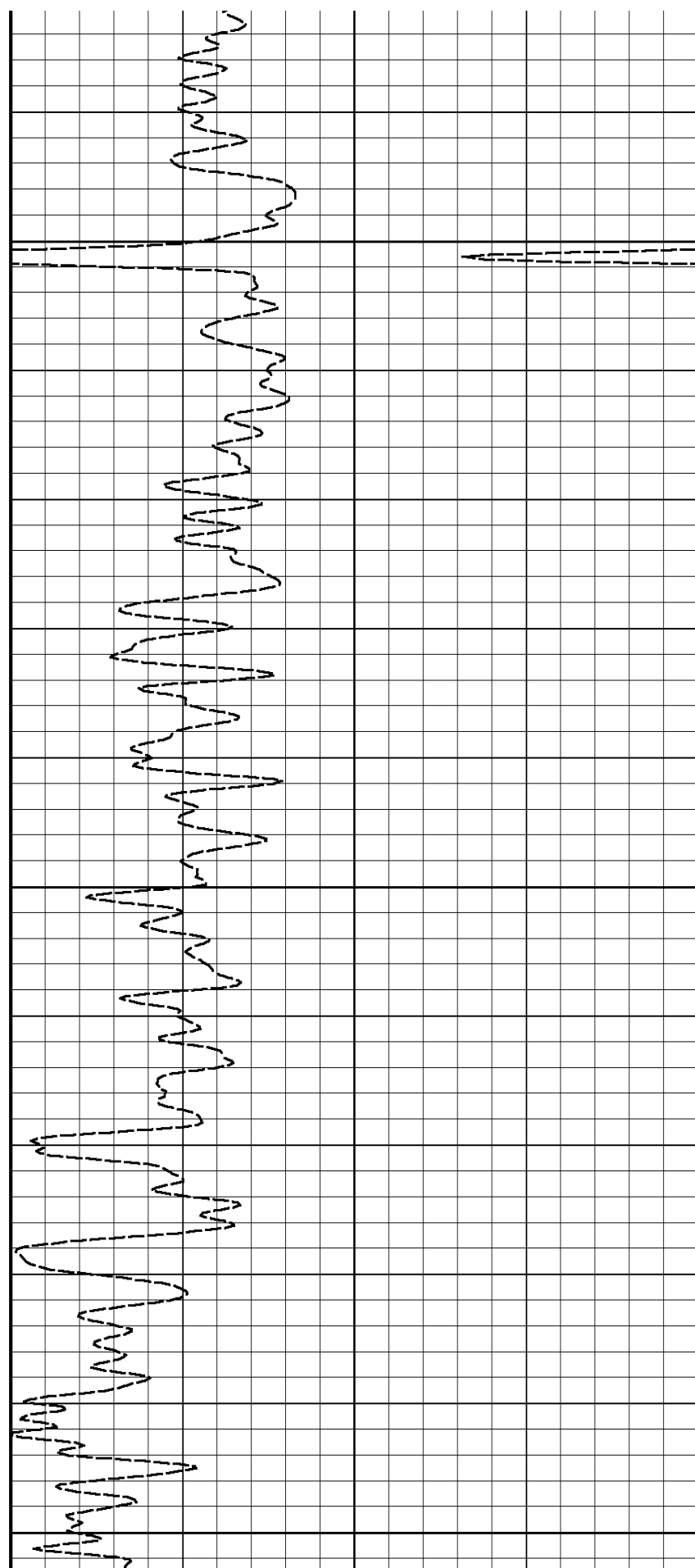
180

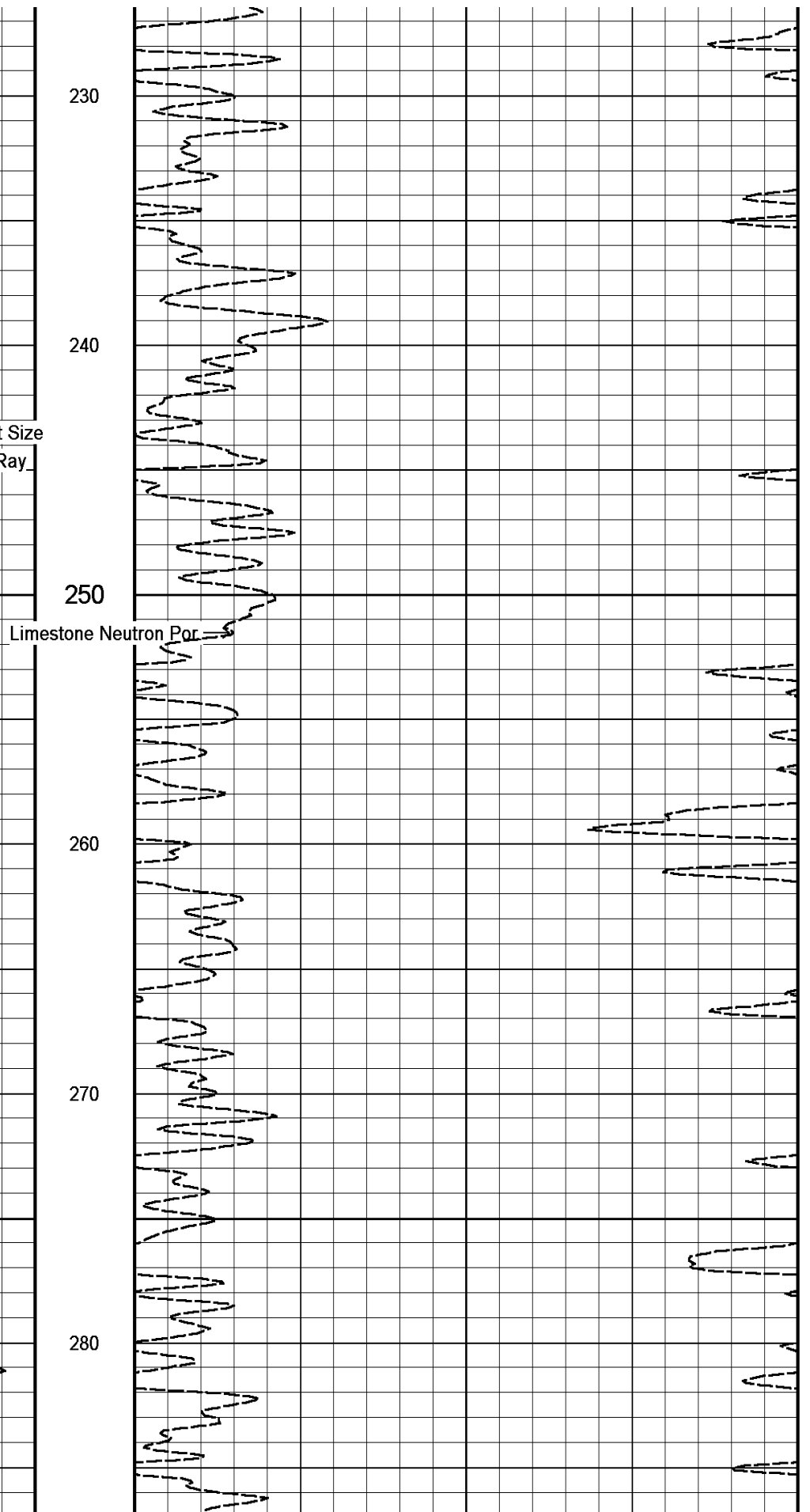
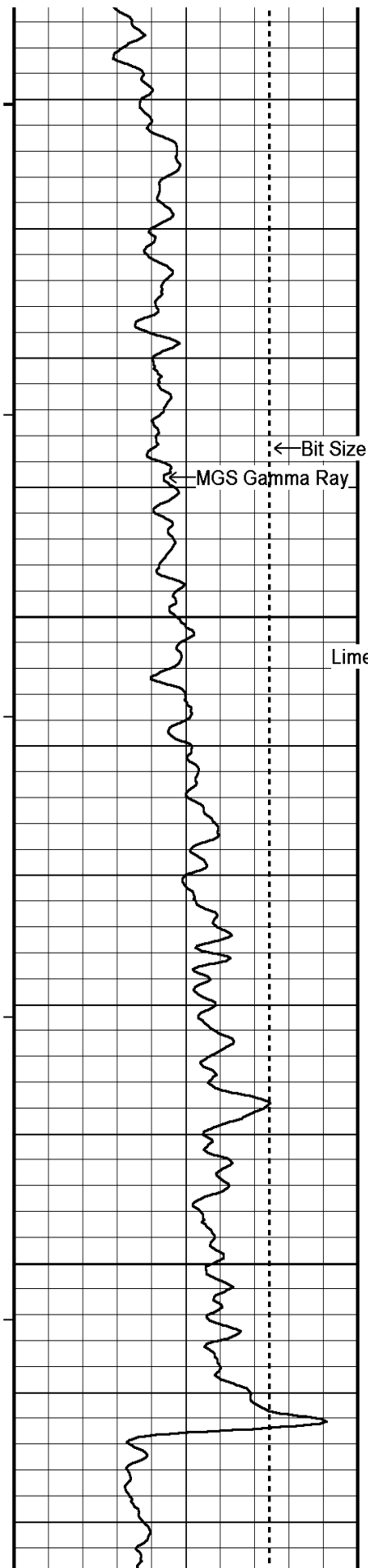
190

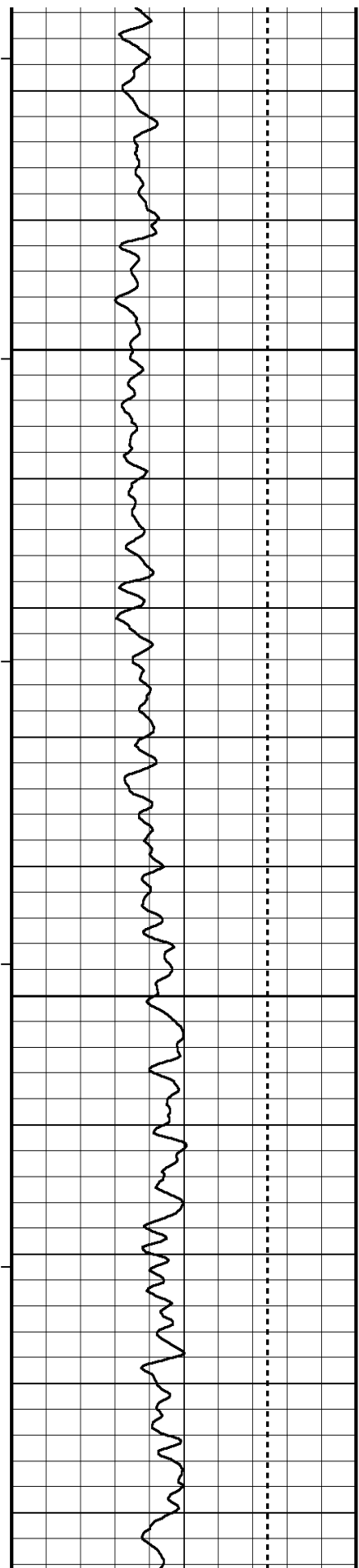
200

210

220







290

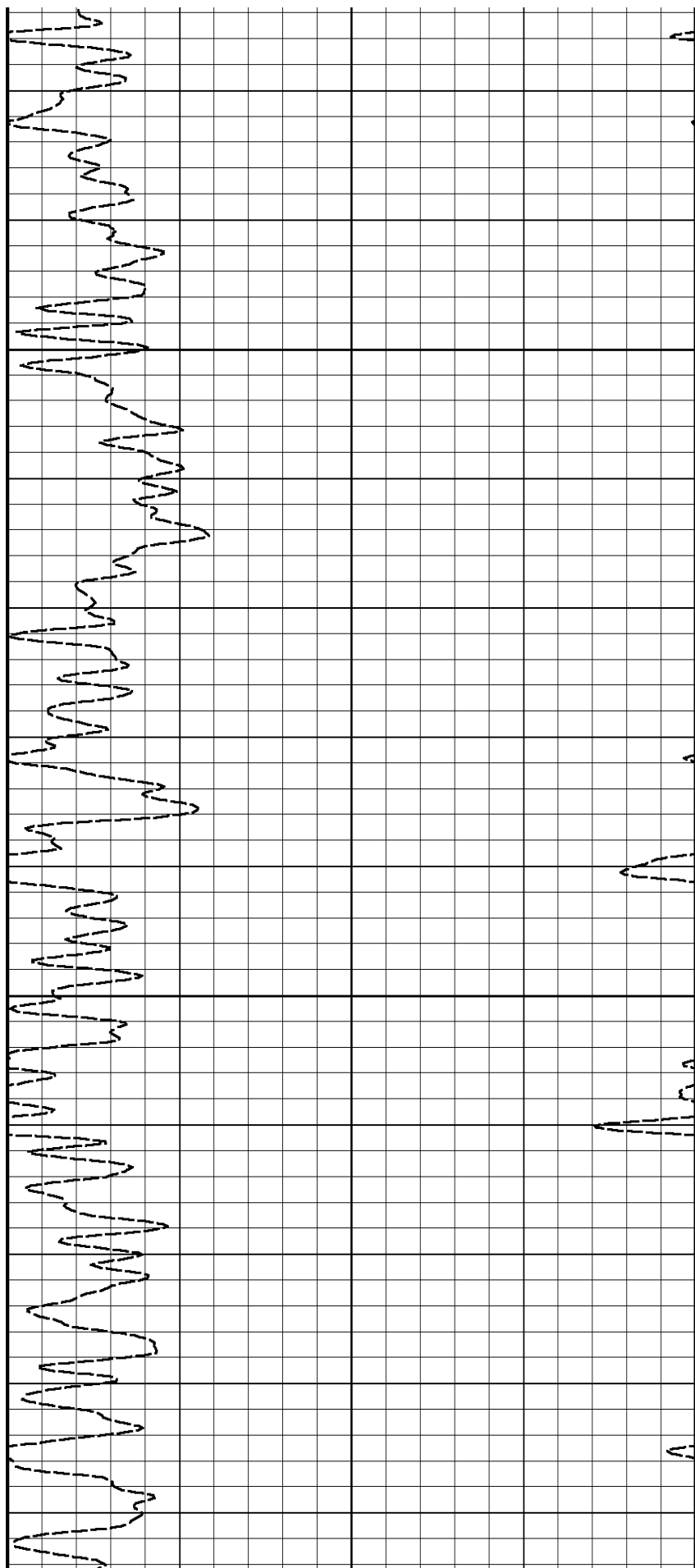
300

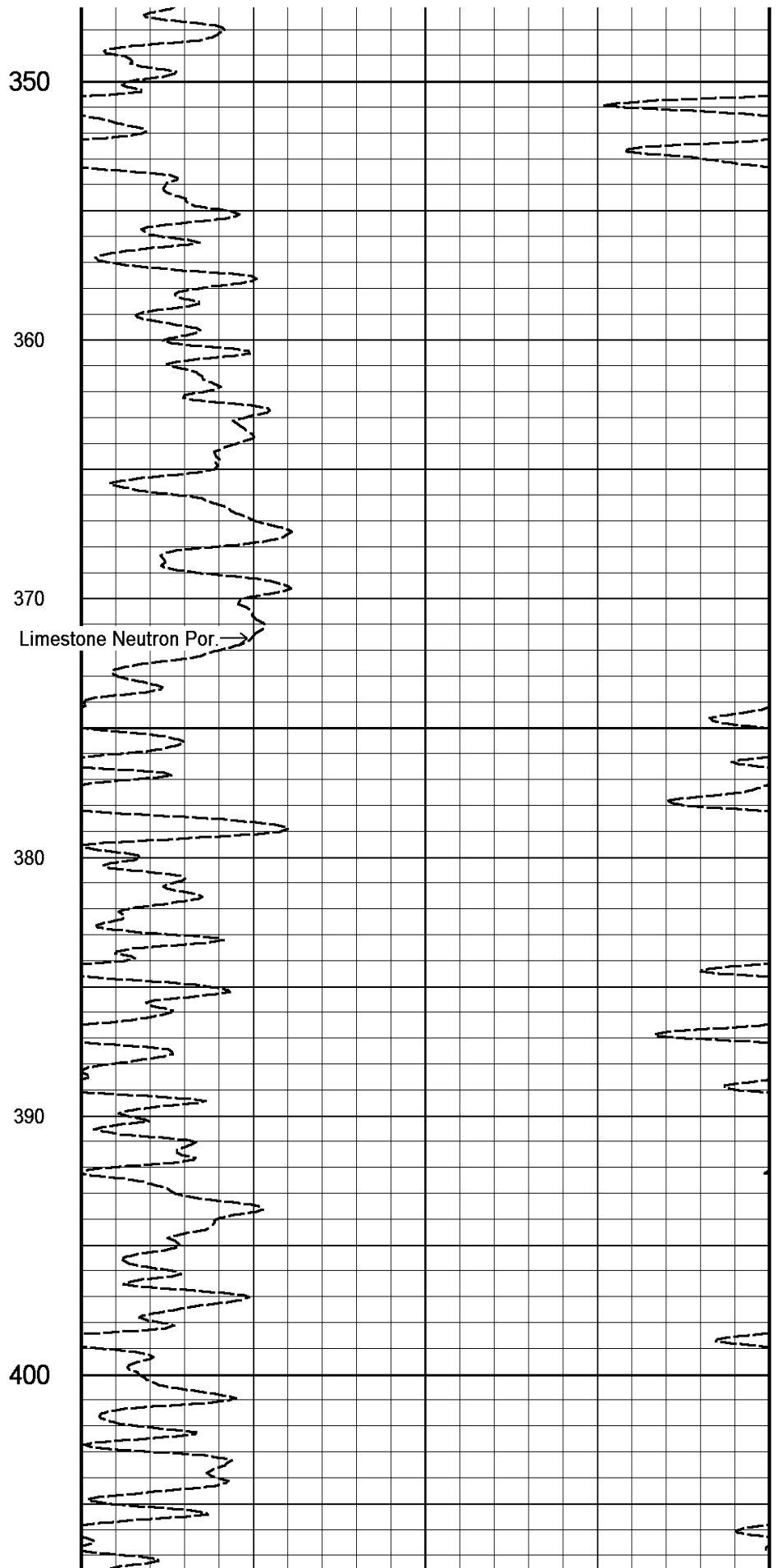
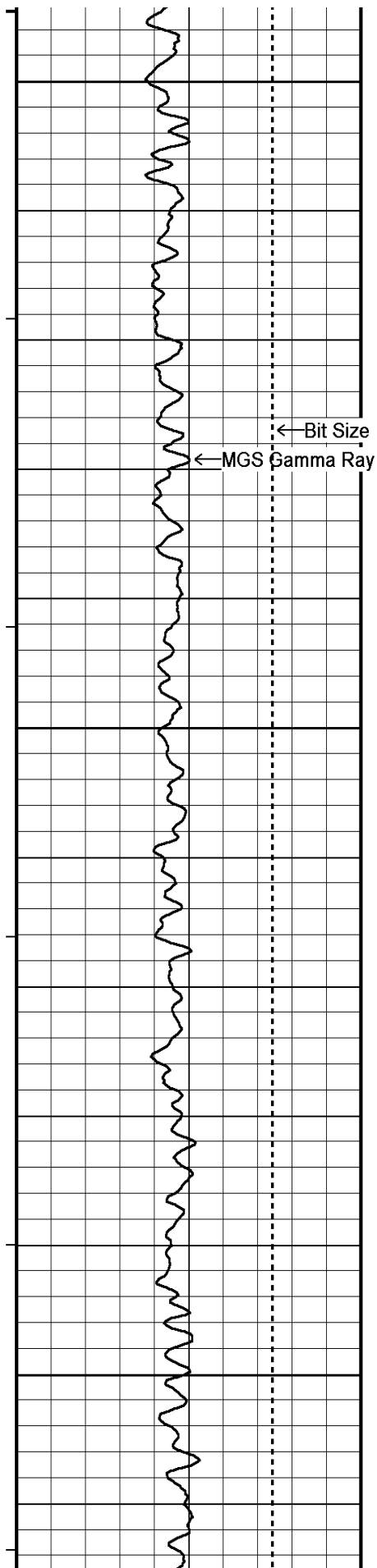
310

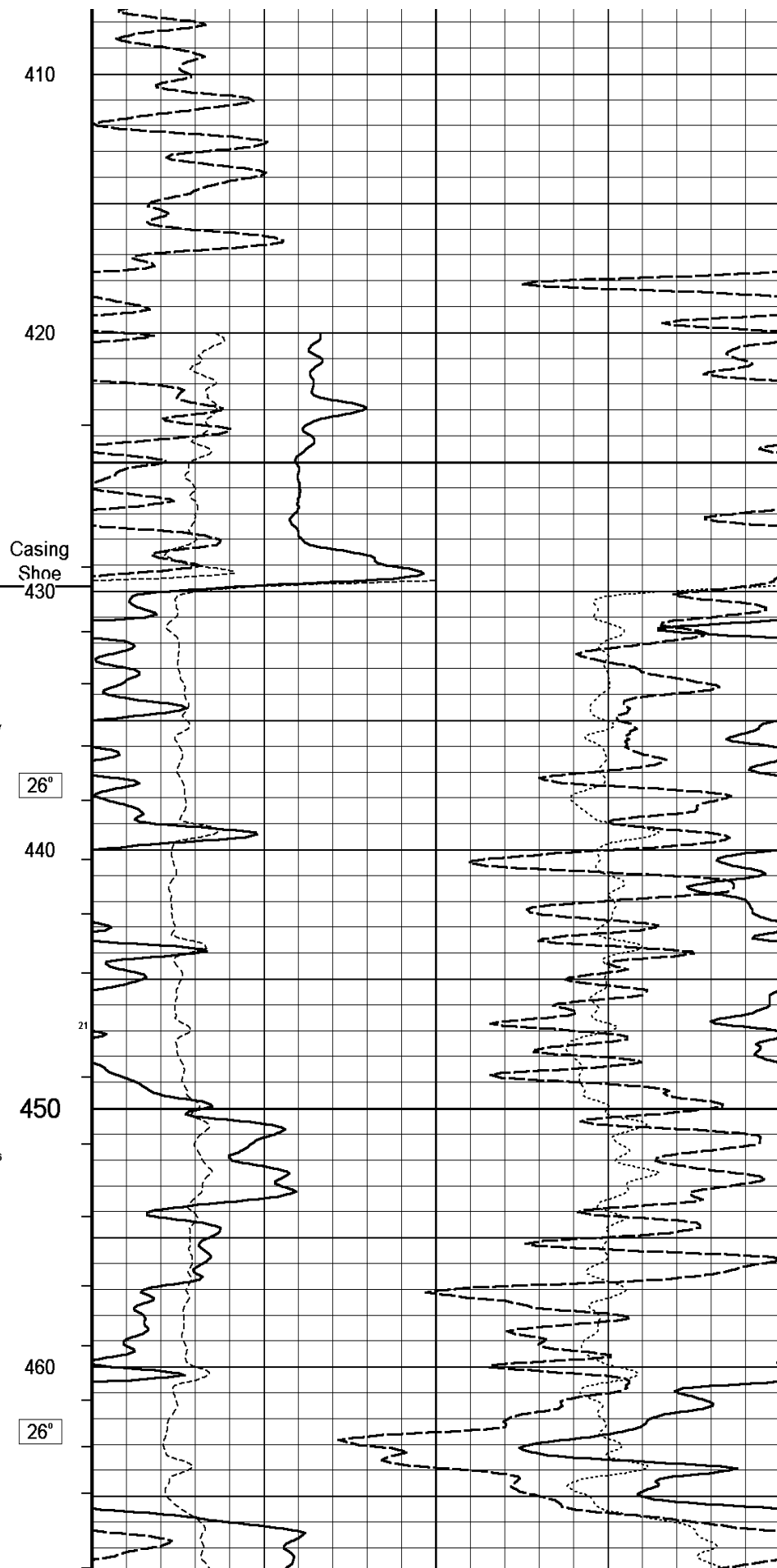
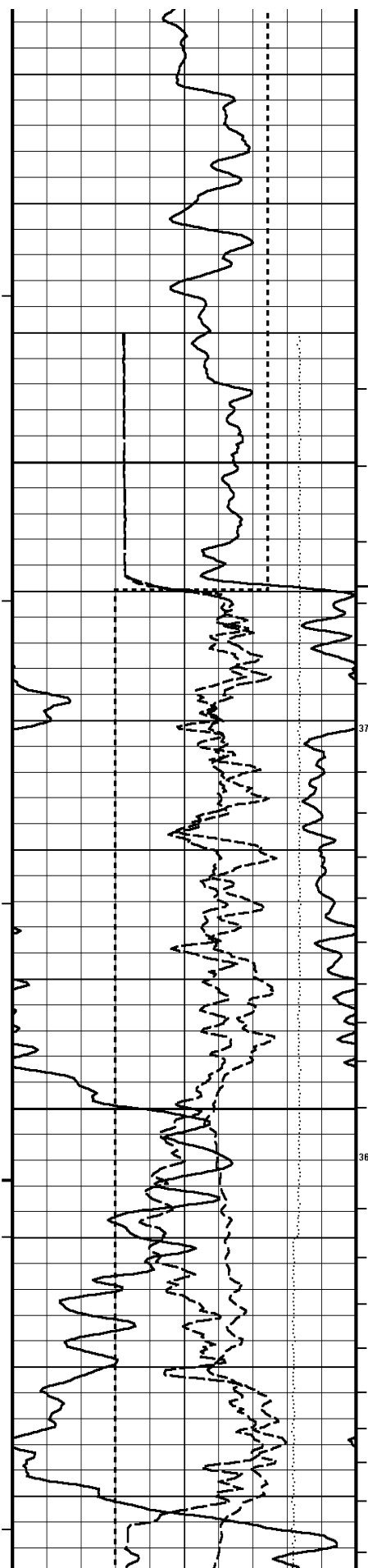
320

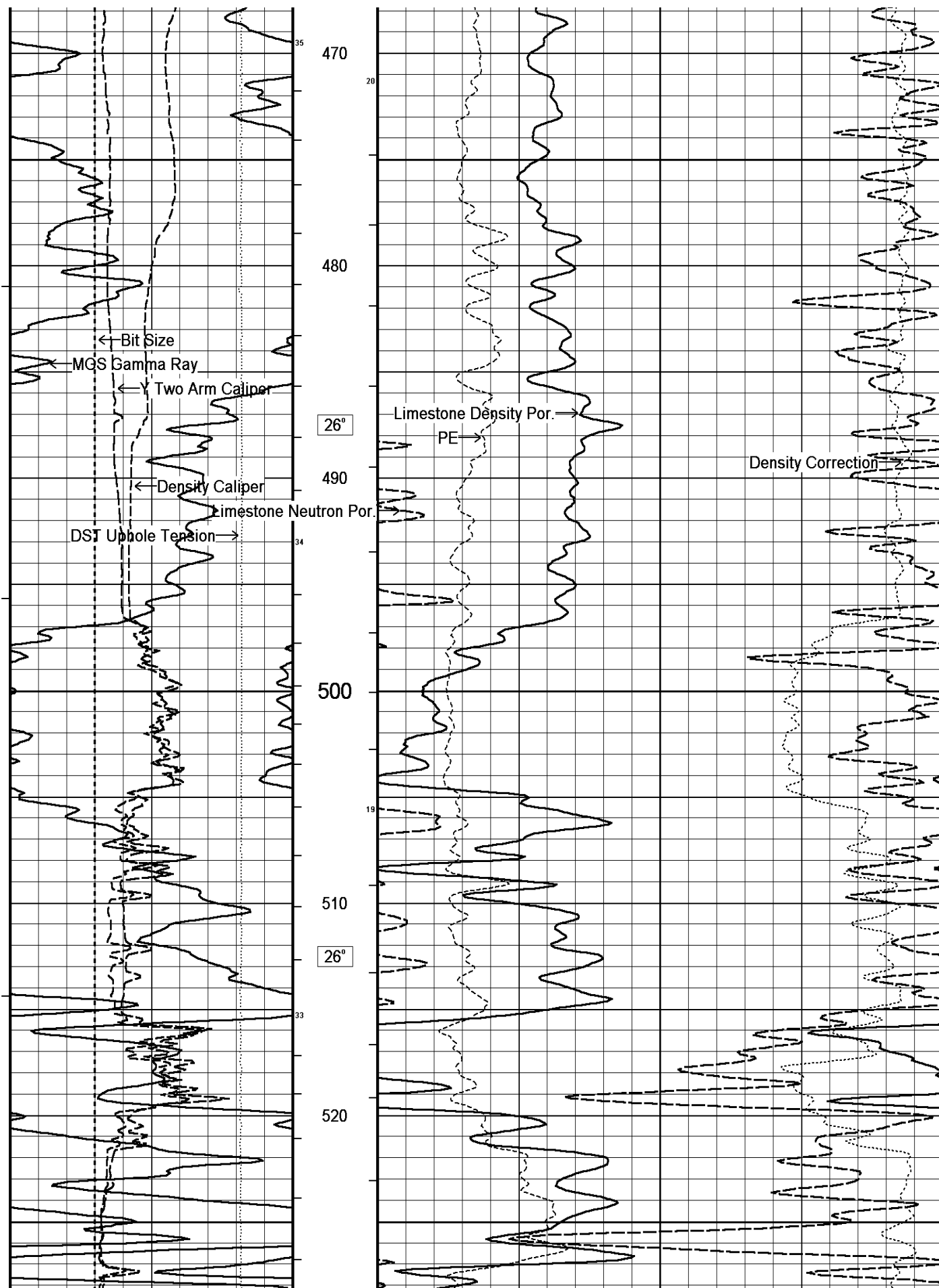
330

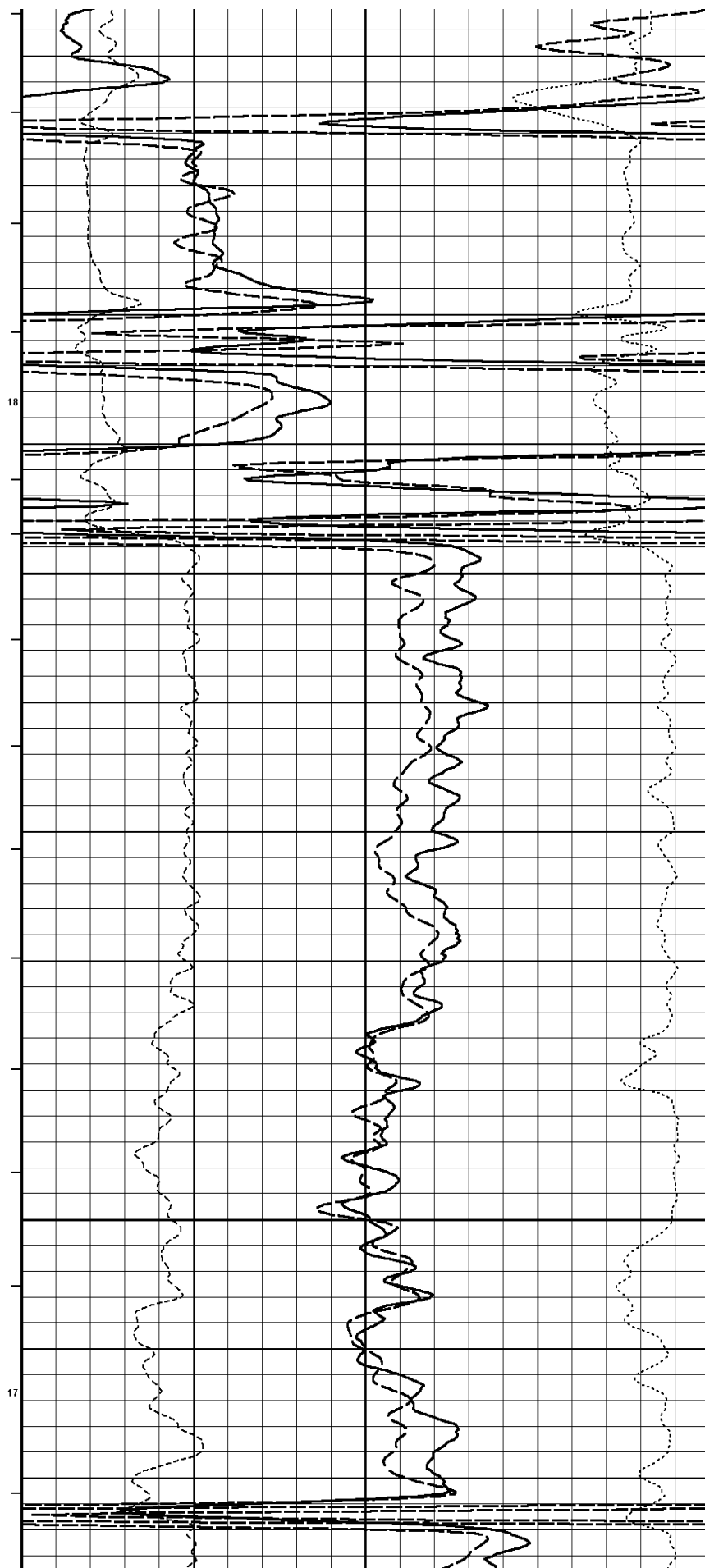
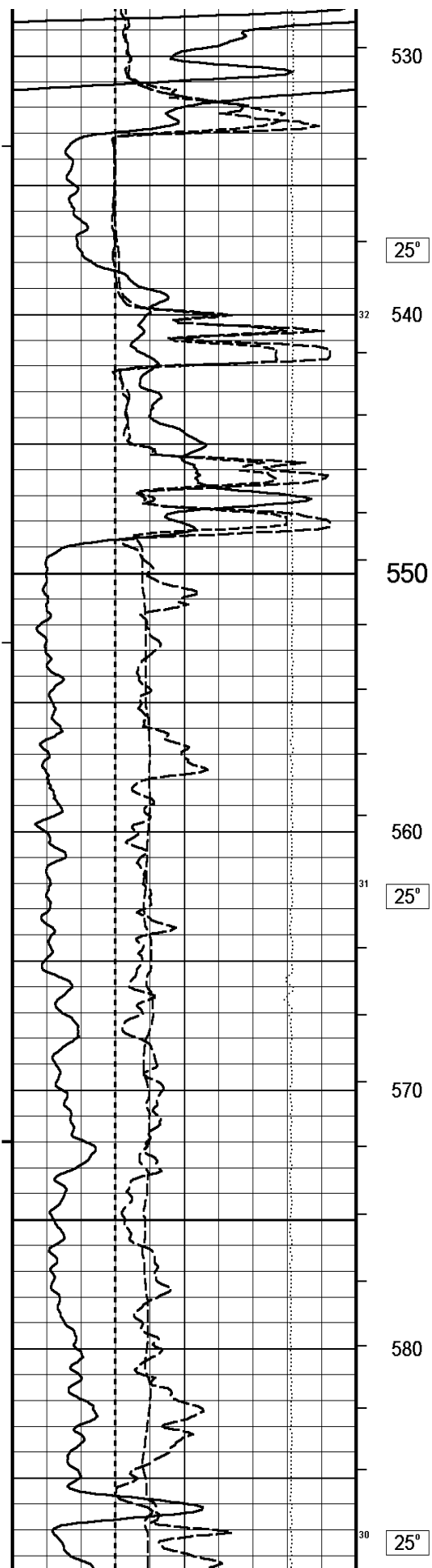
340

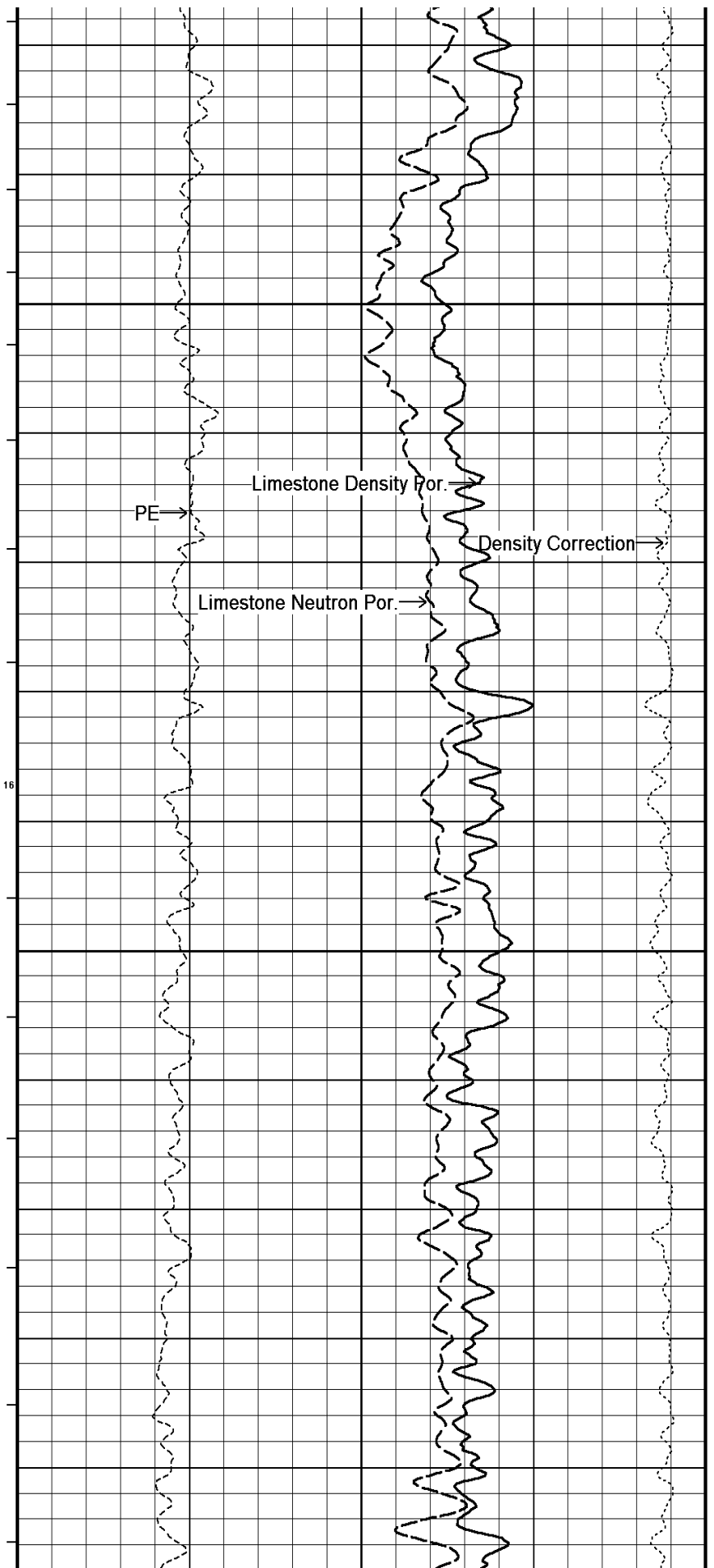
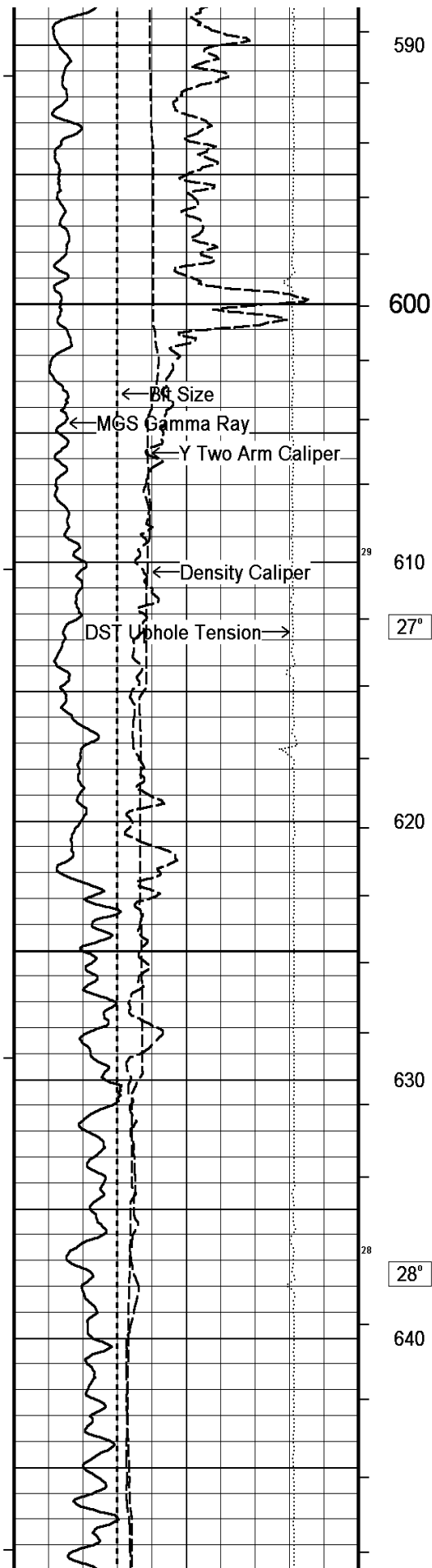


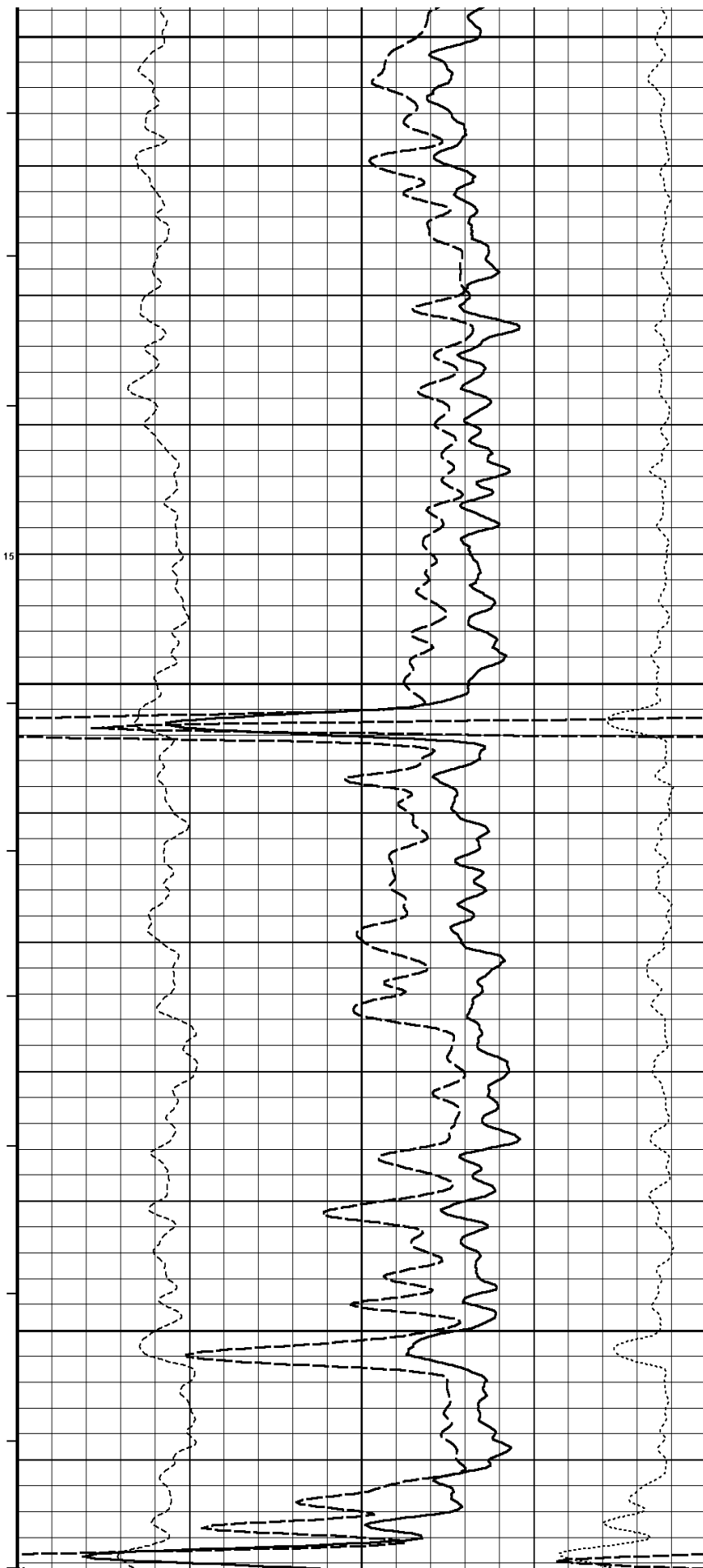
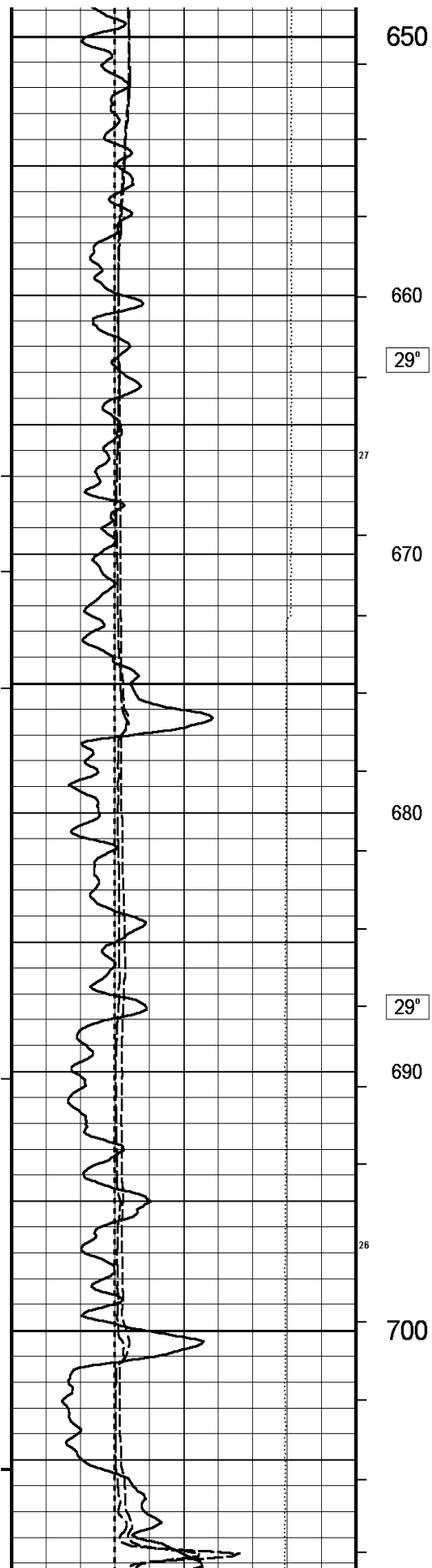


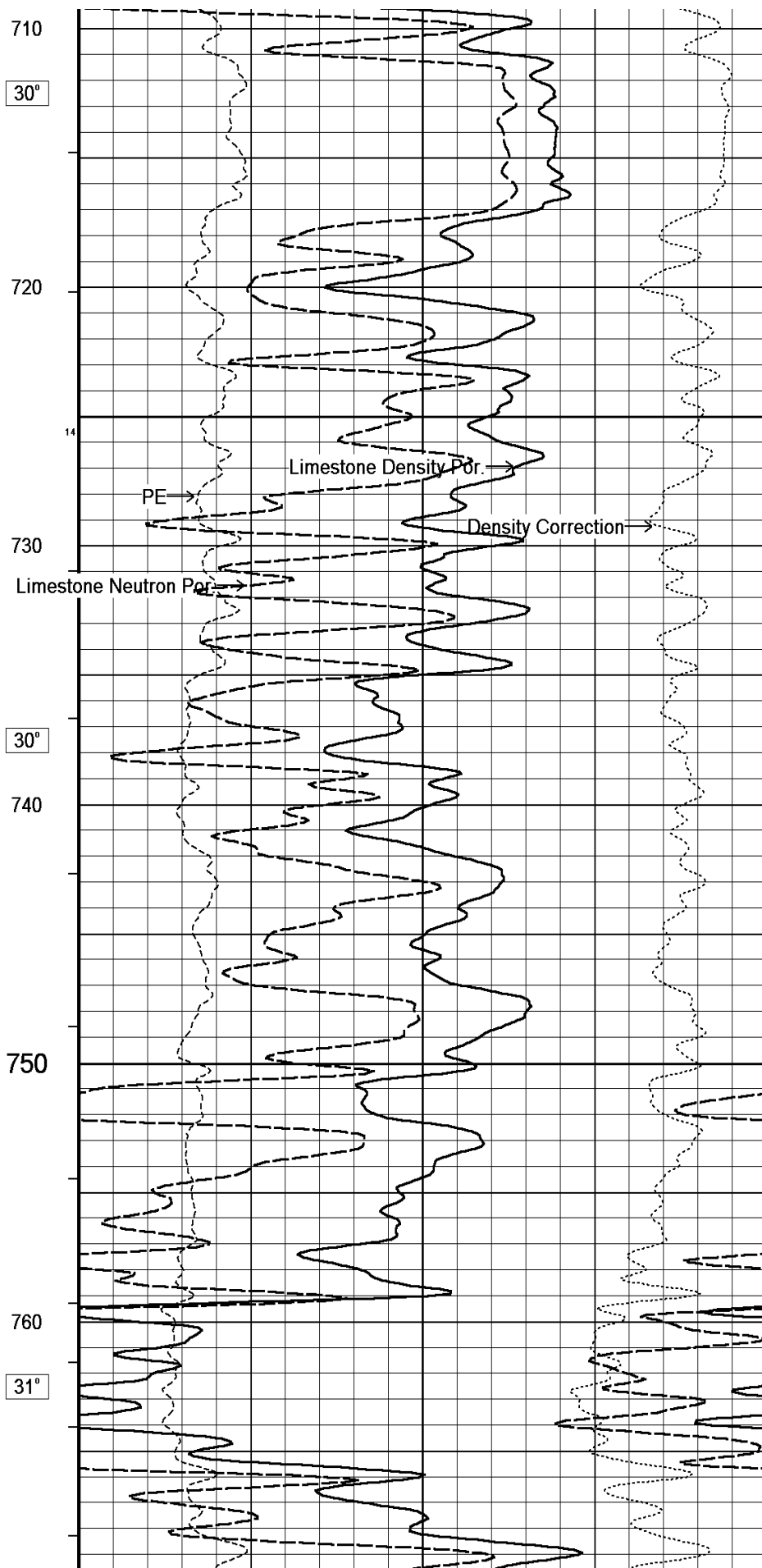
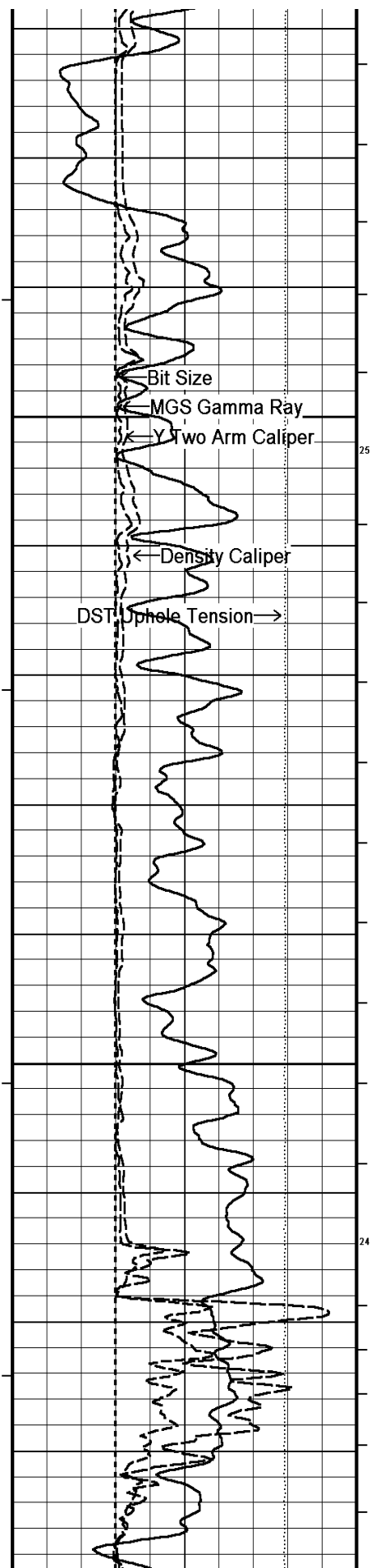


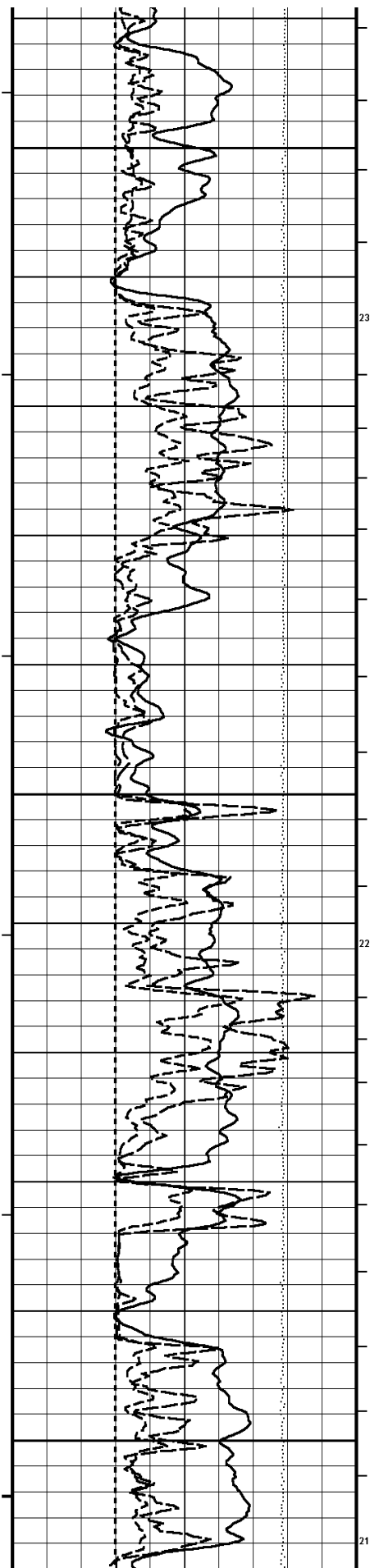












770

780

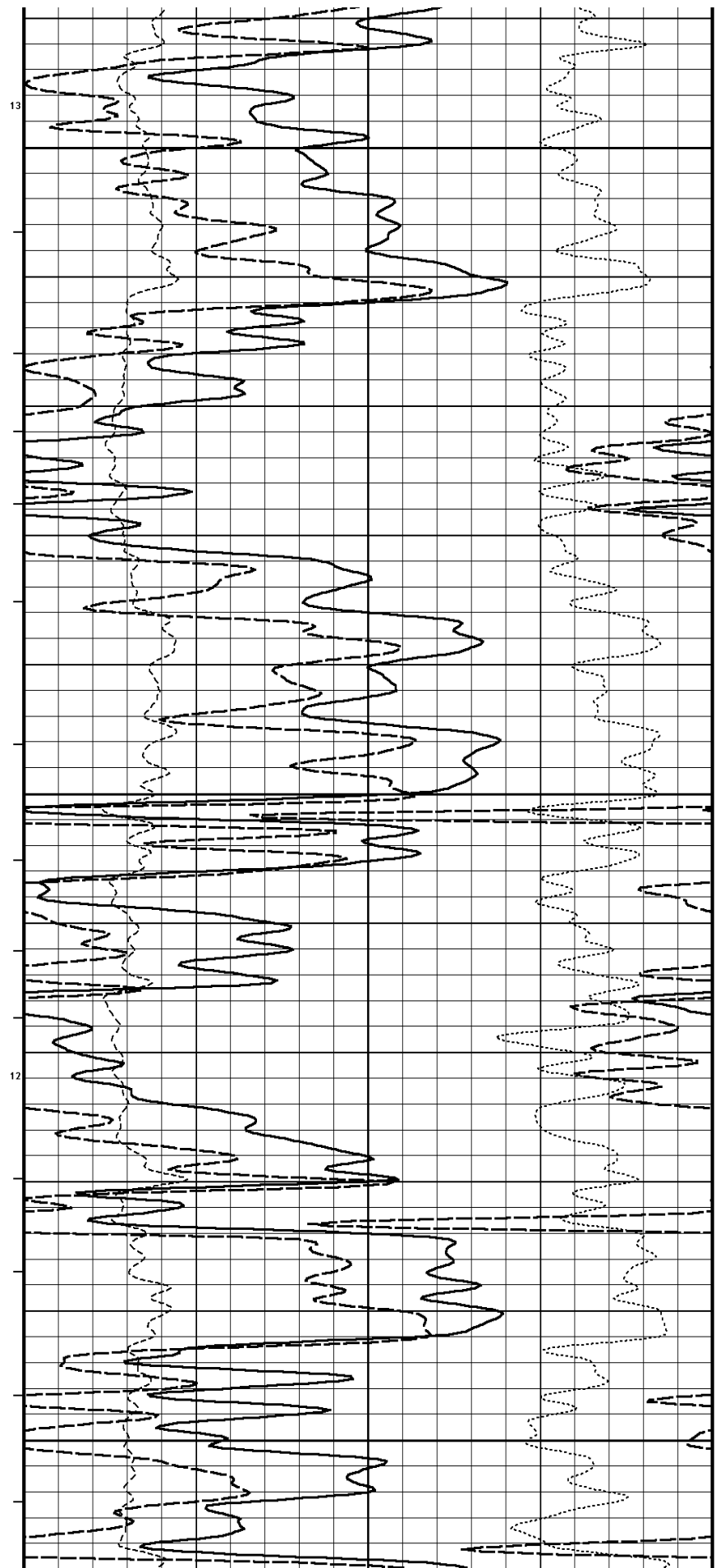
790

800

810

820

820



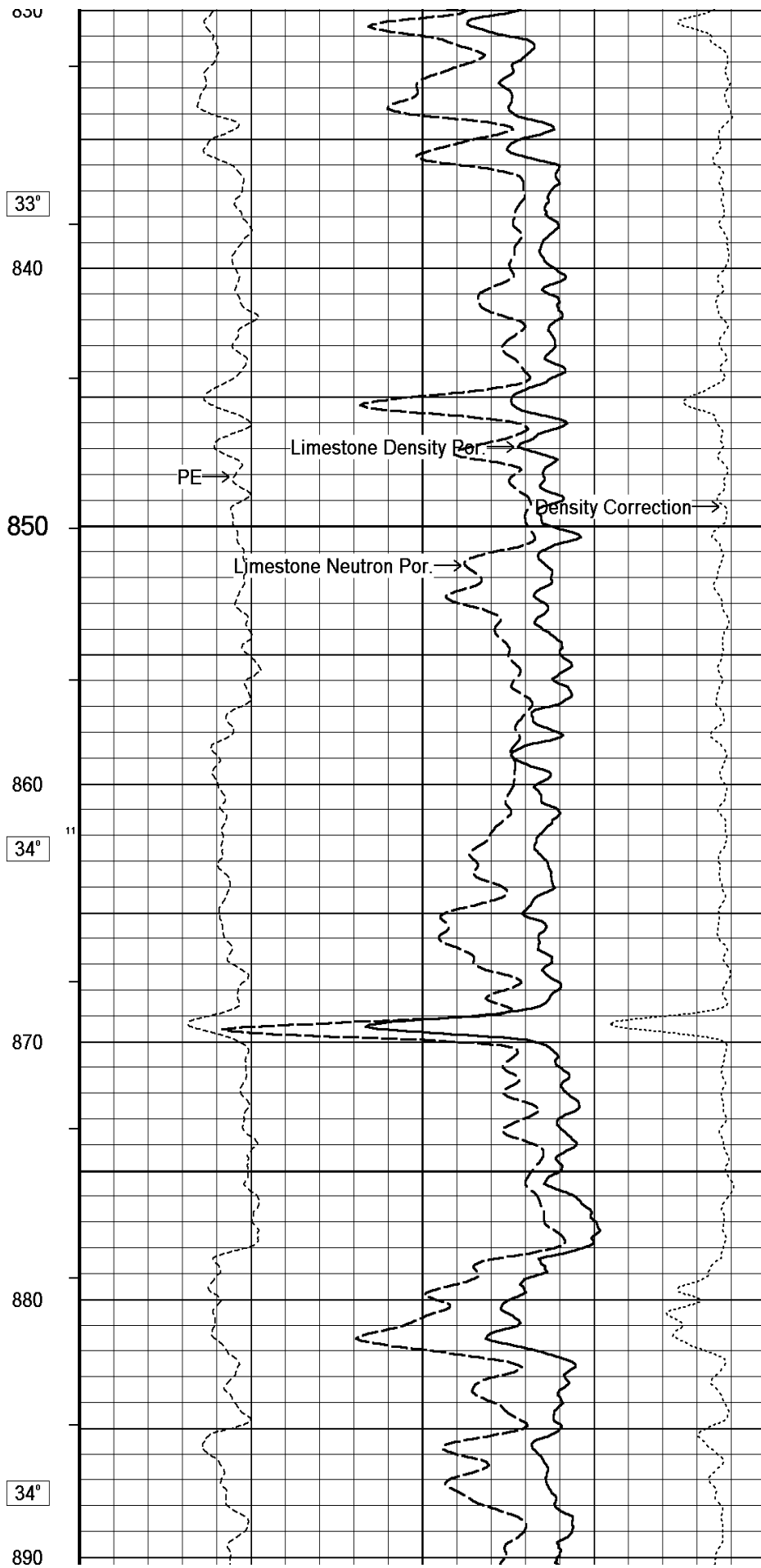
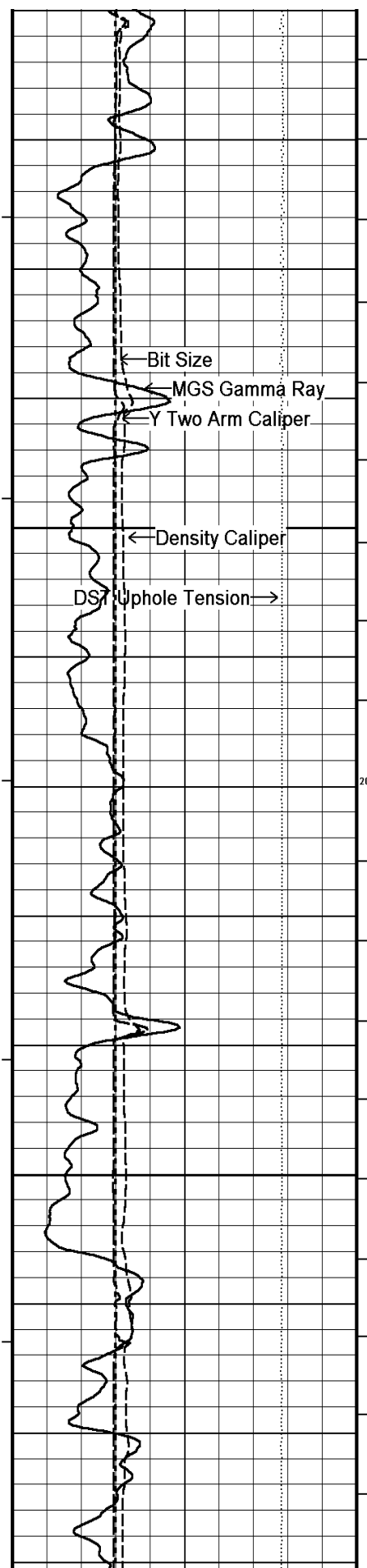
13

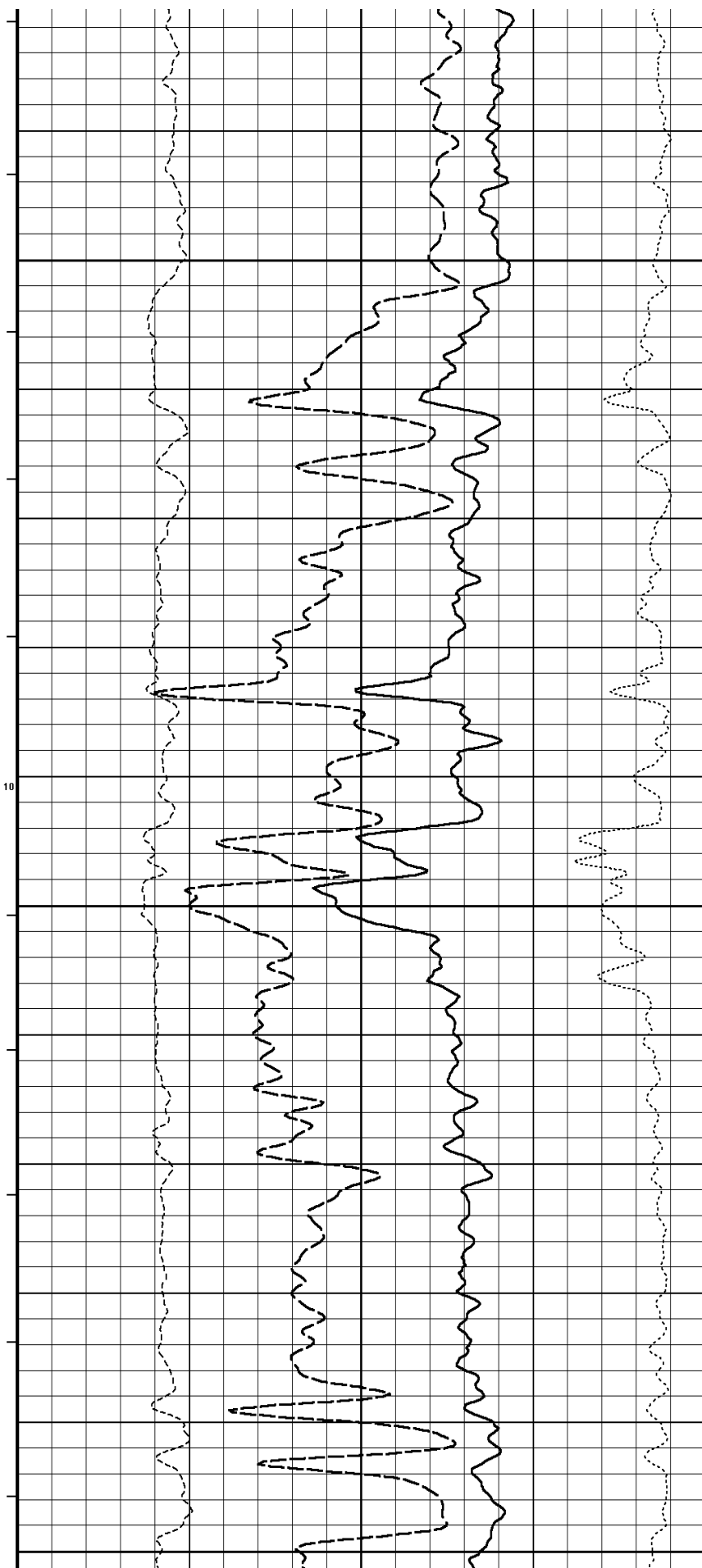
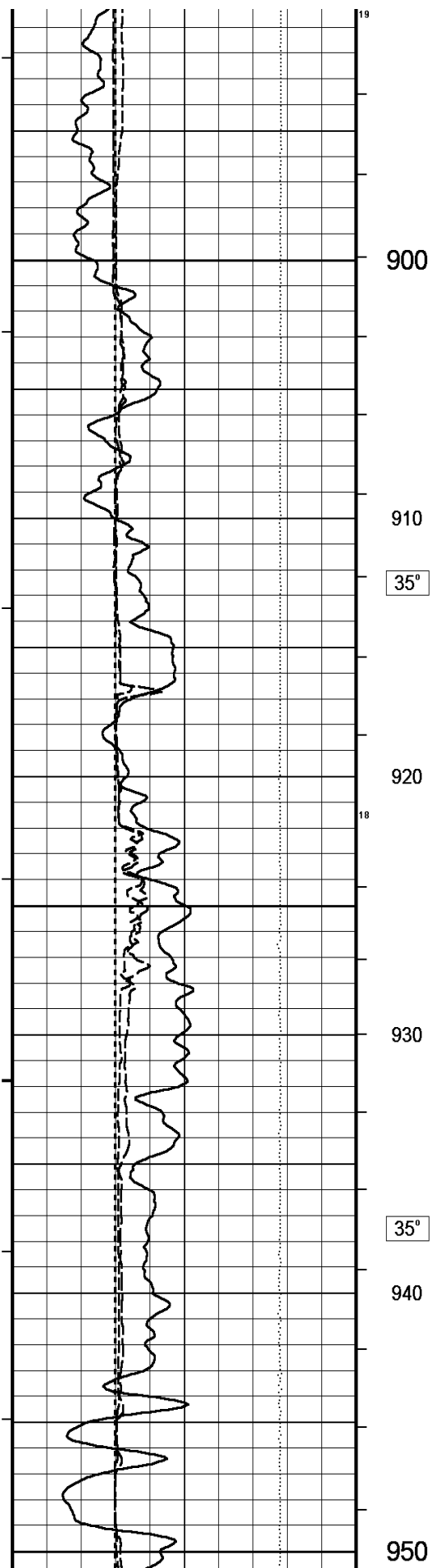
23

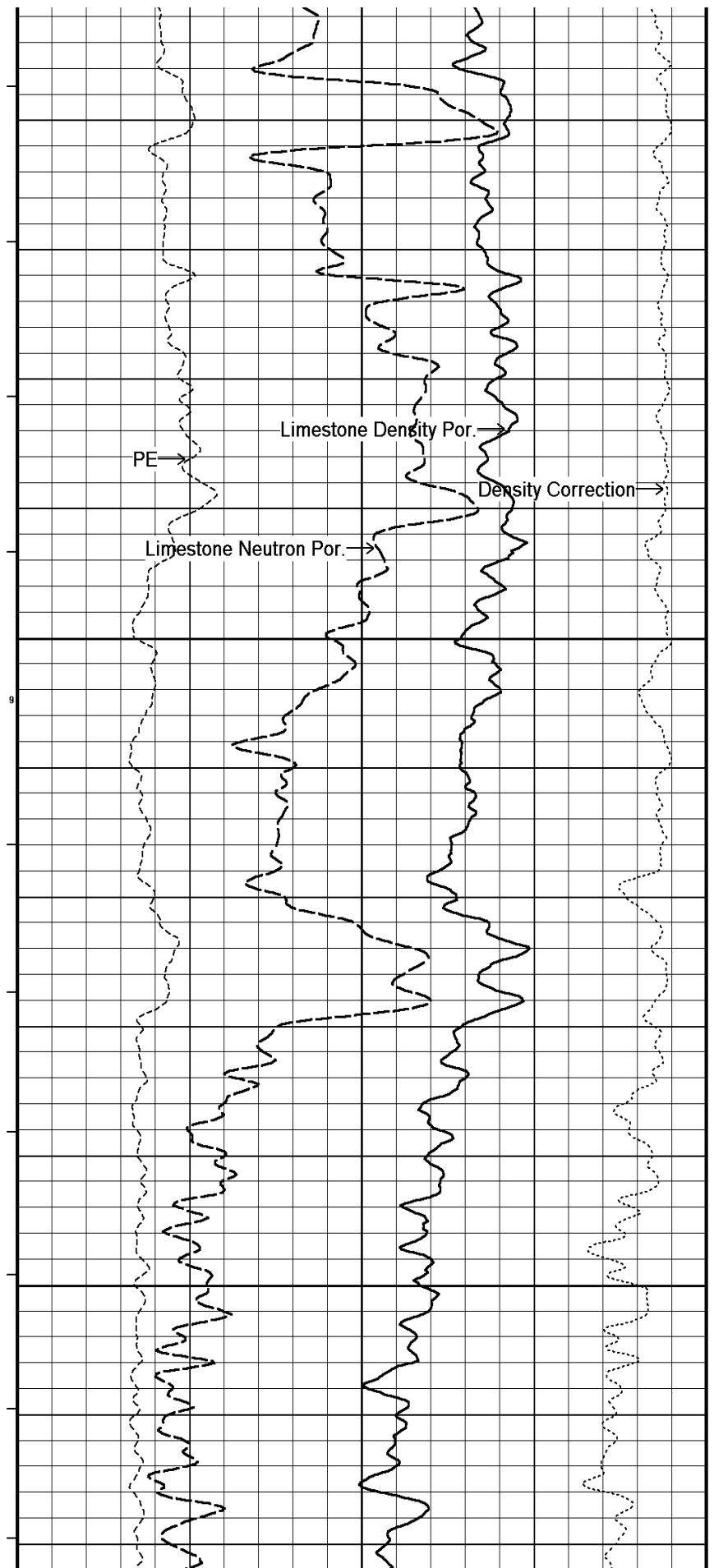
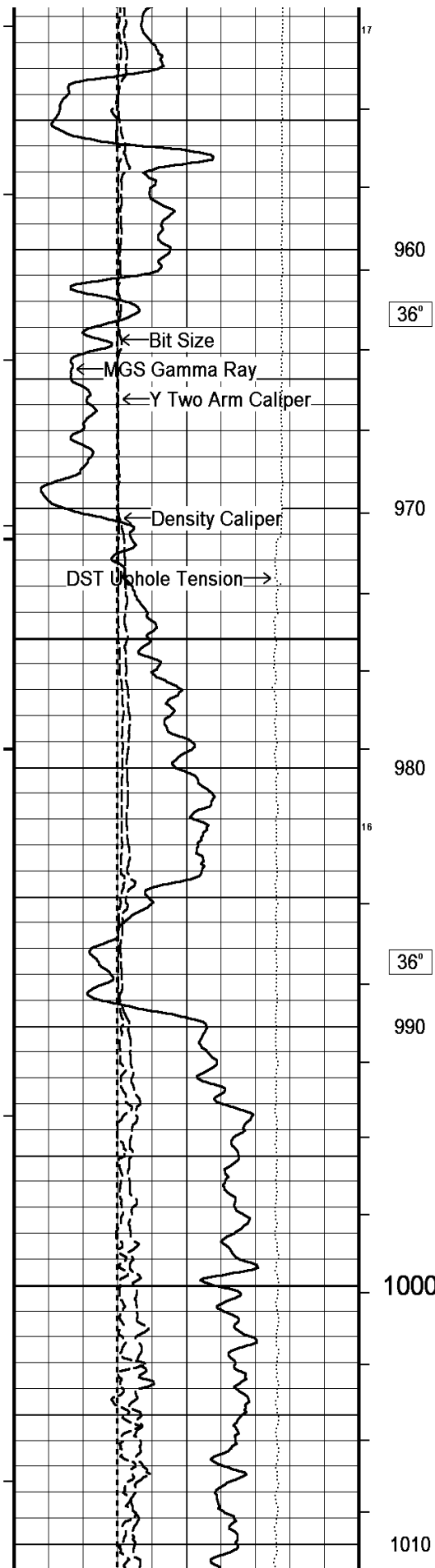
32°

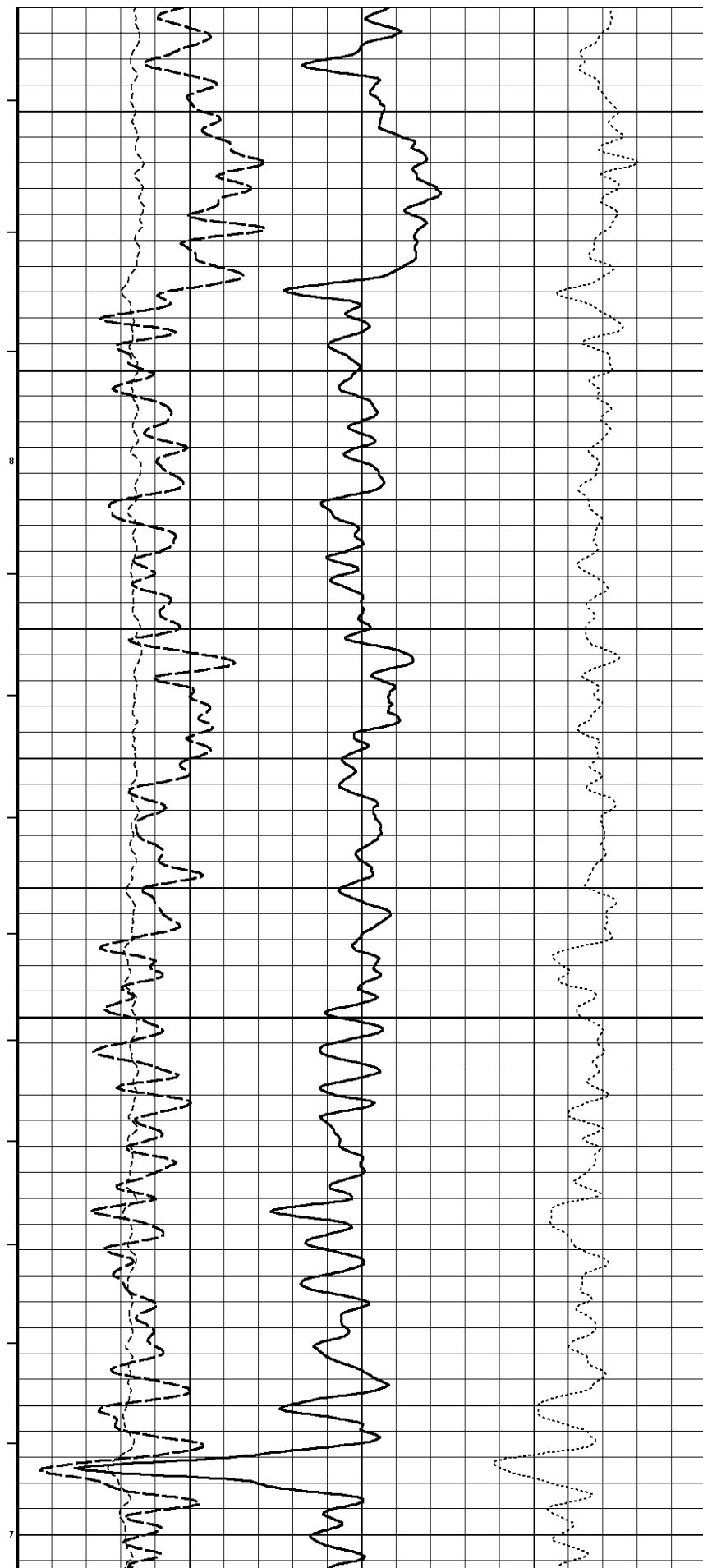
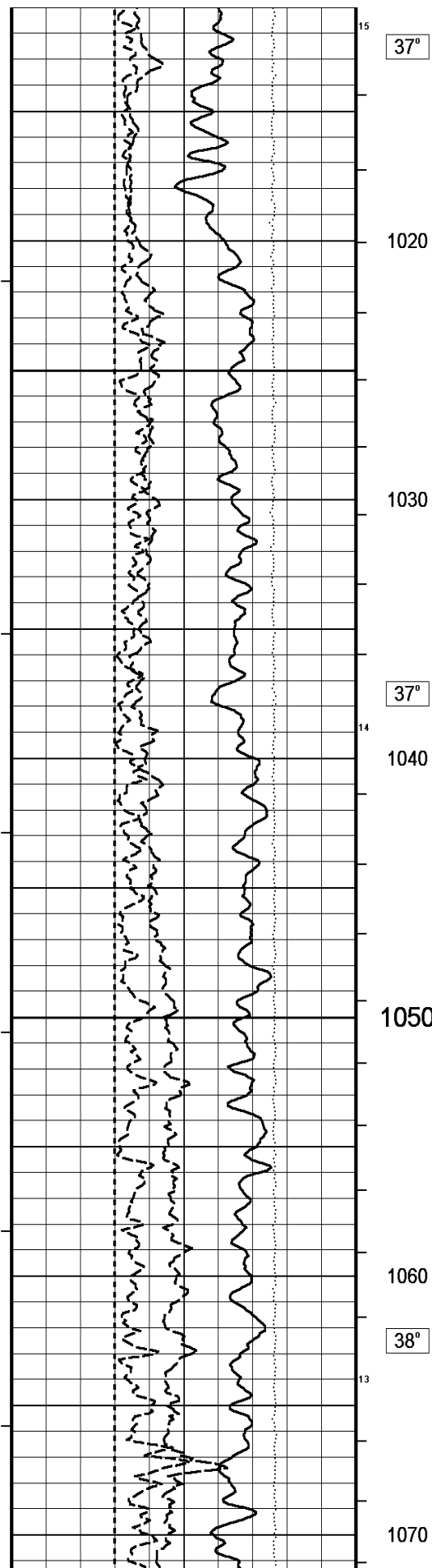
12

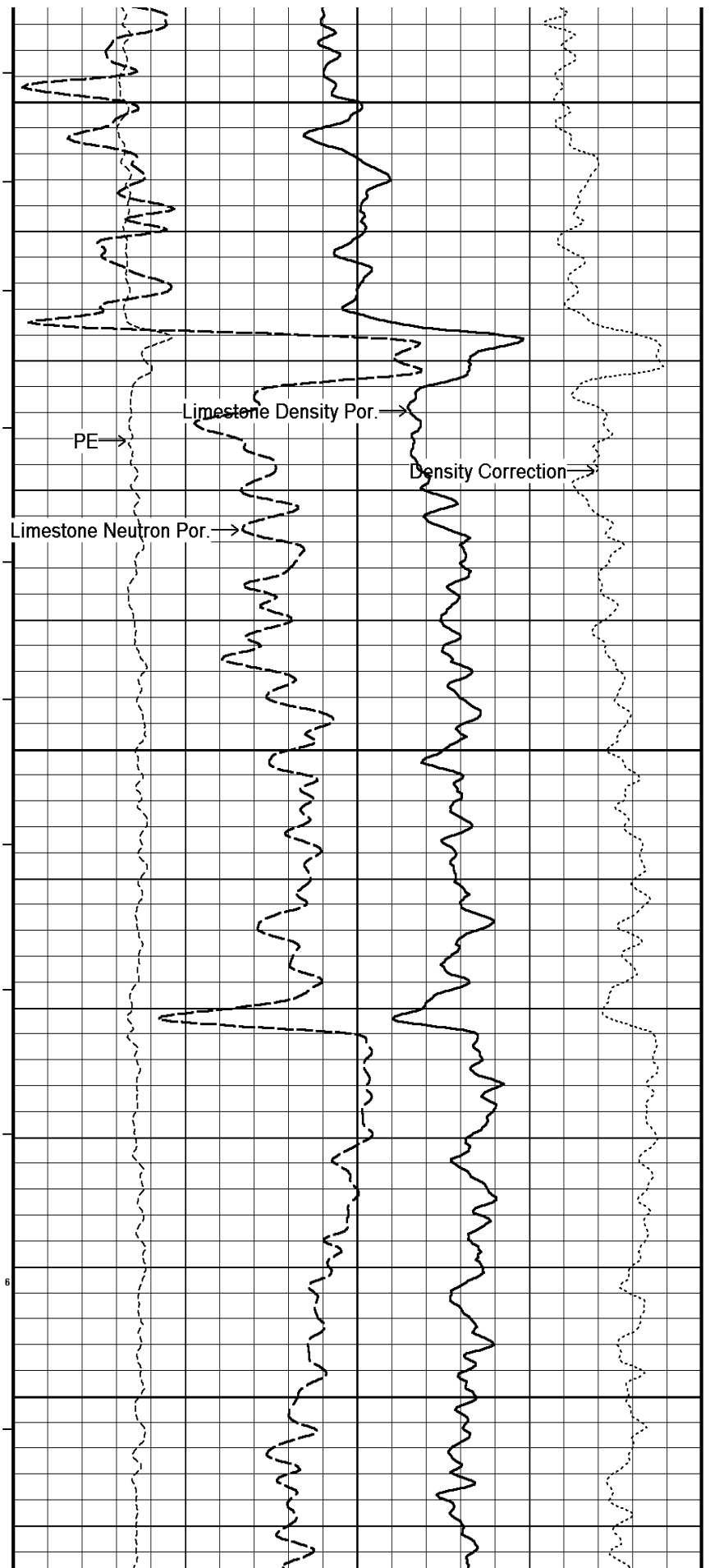
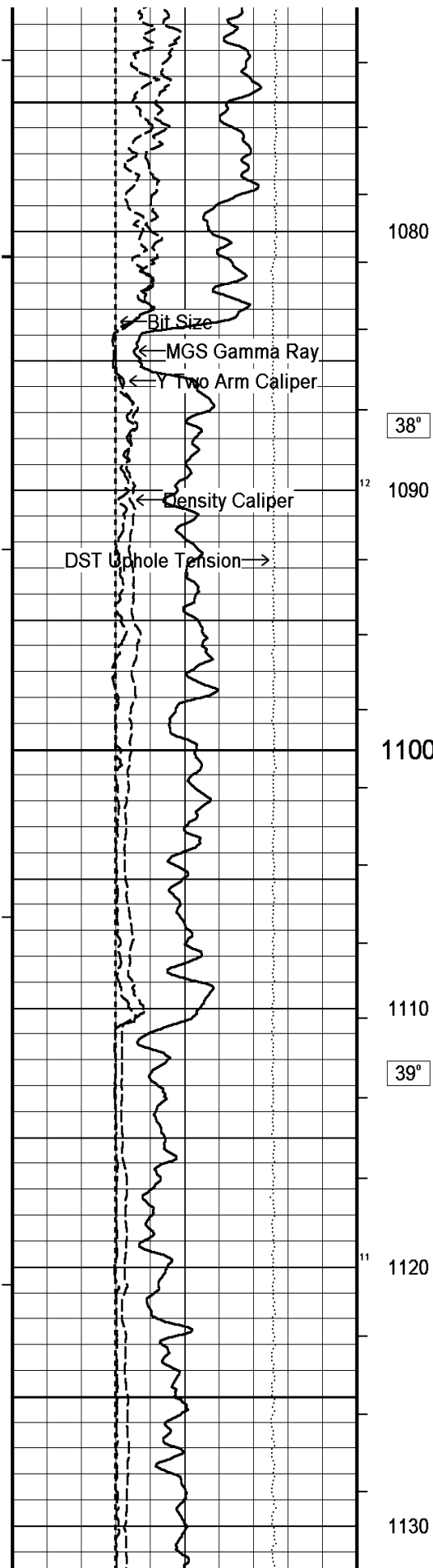
33°

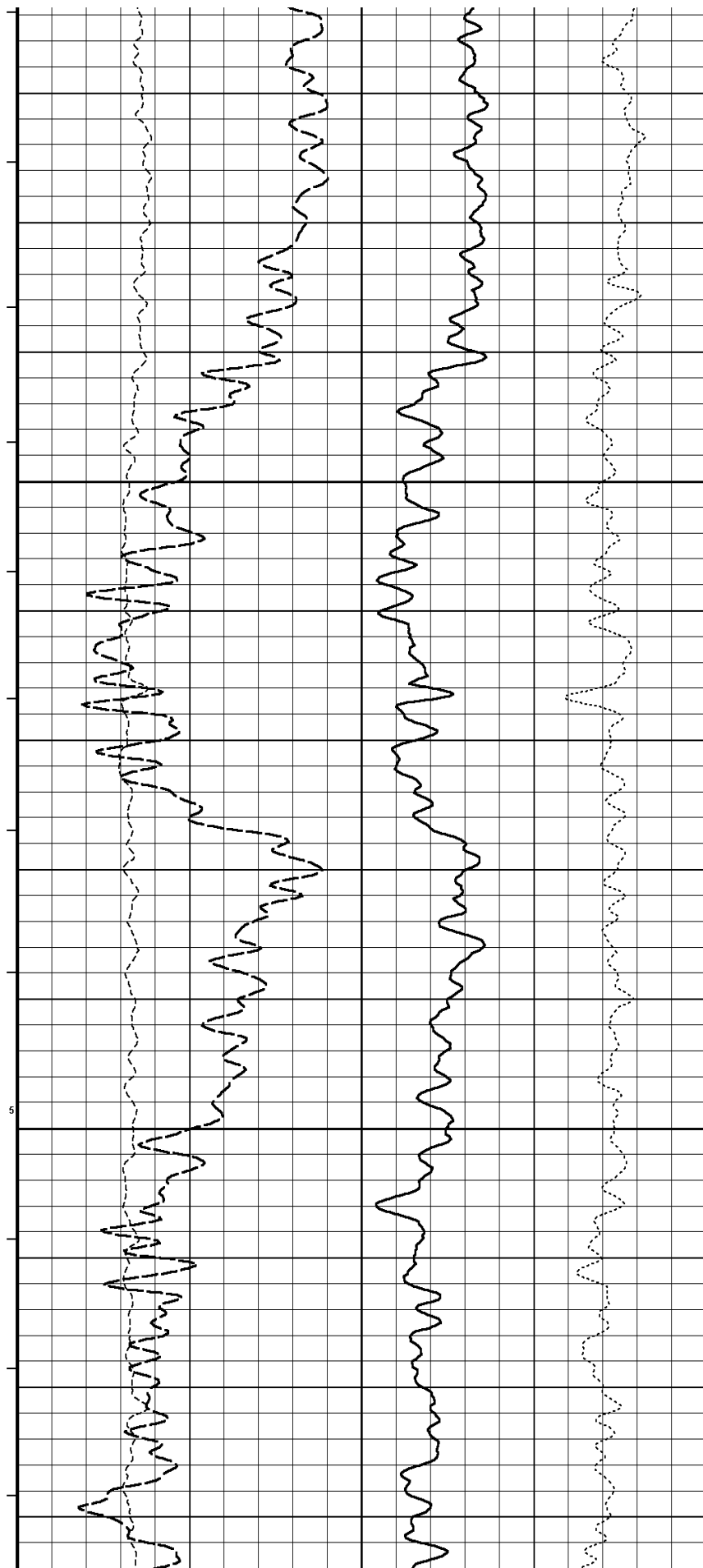
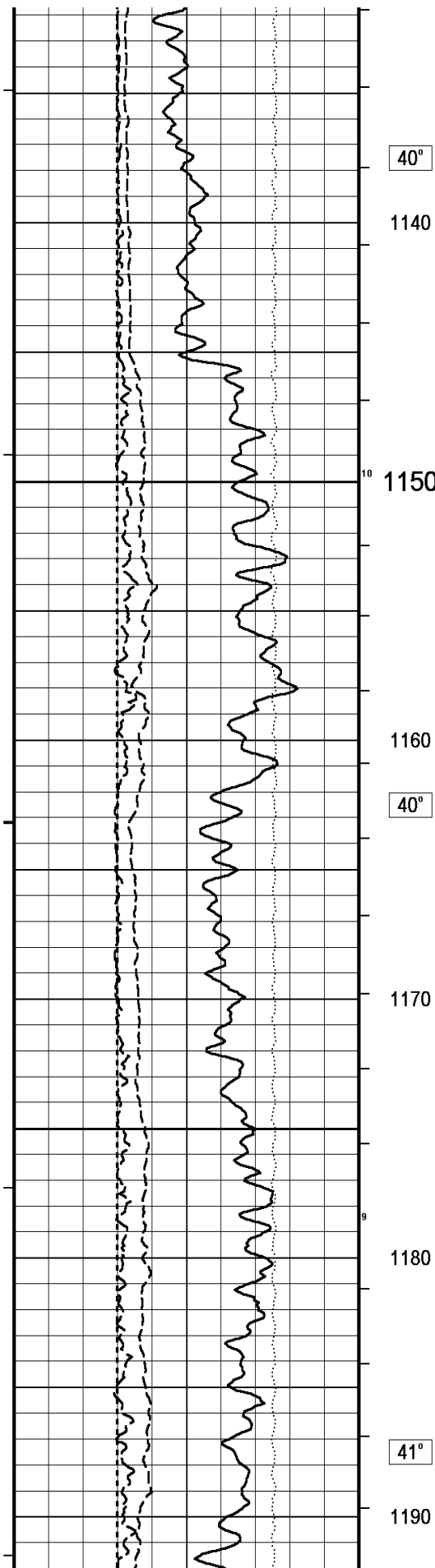


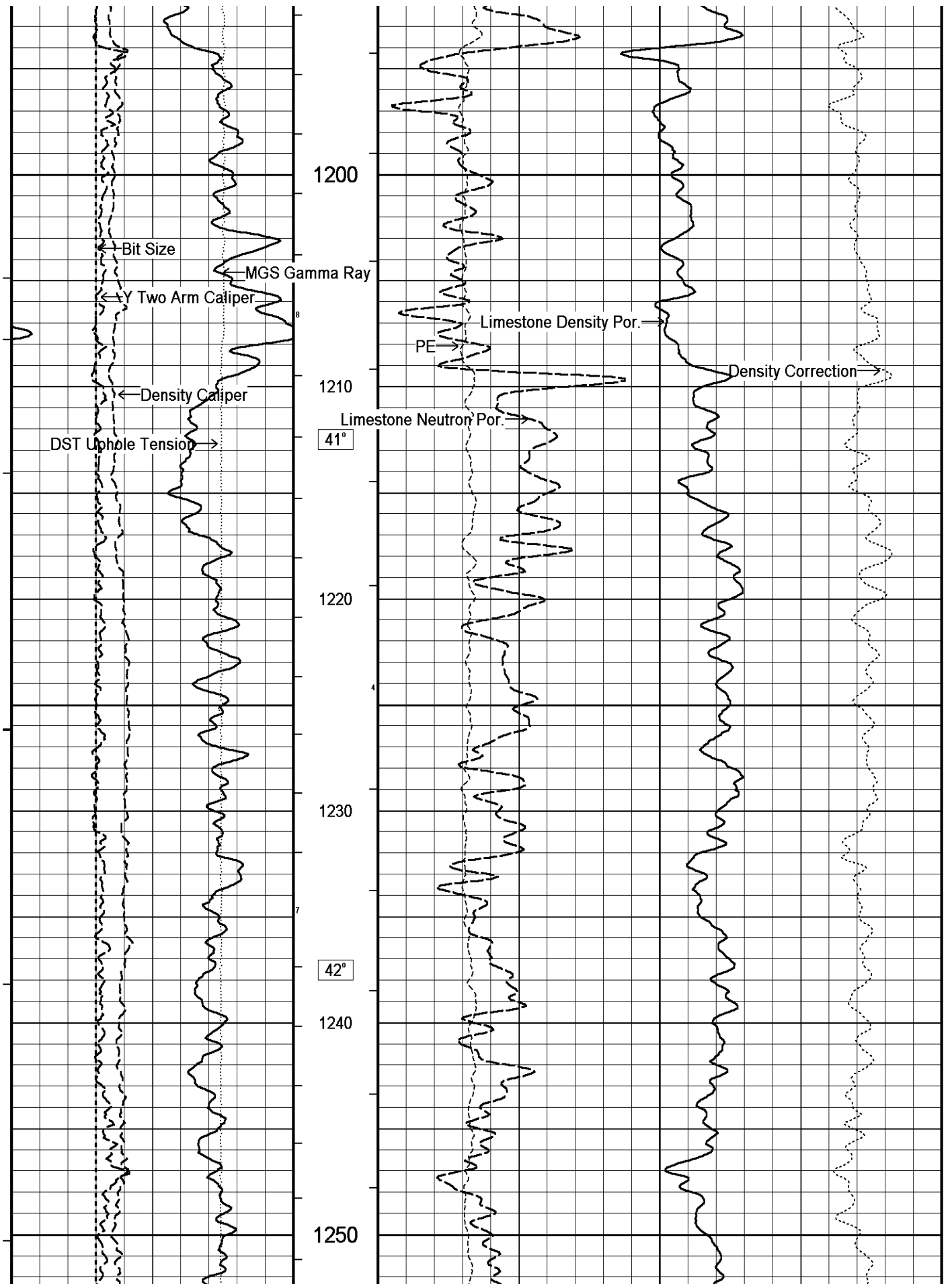


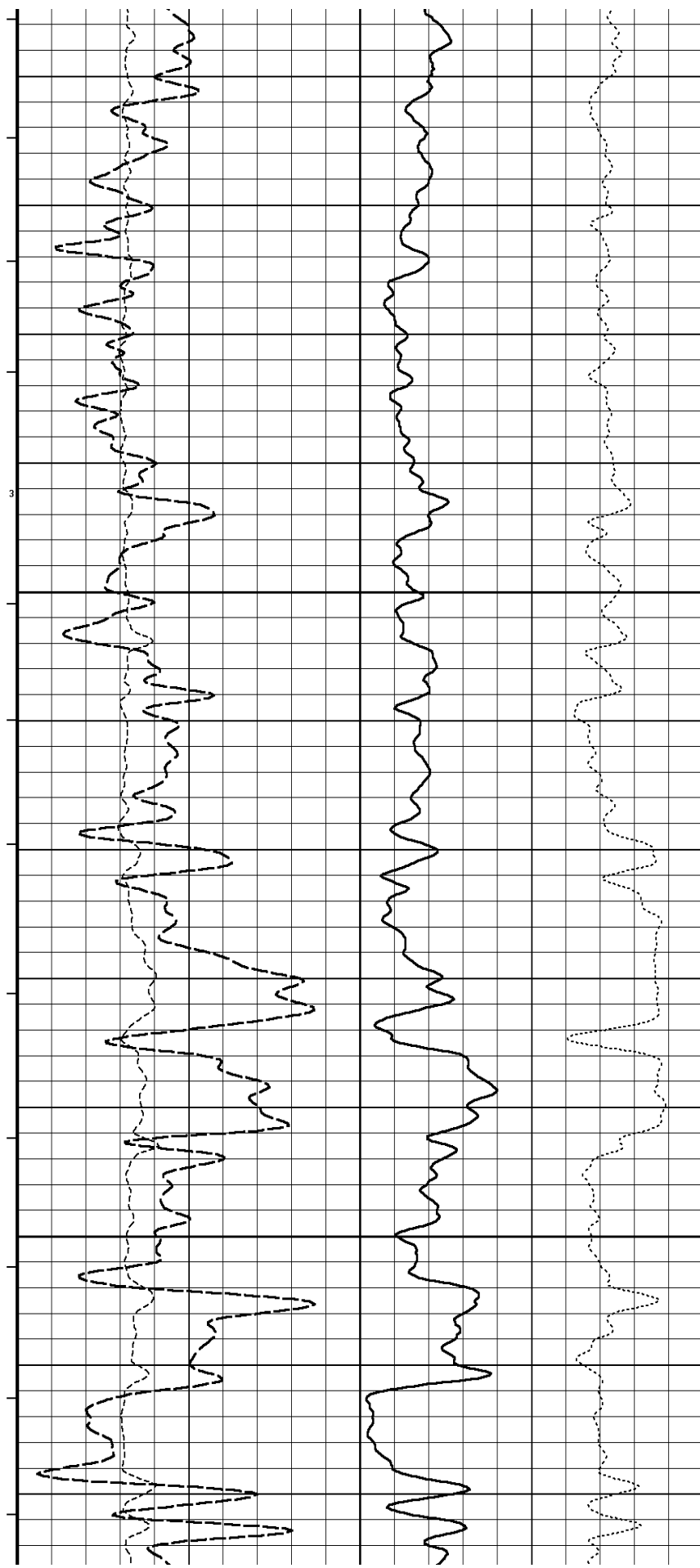
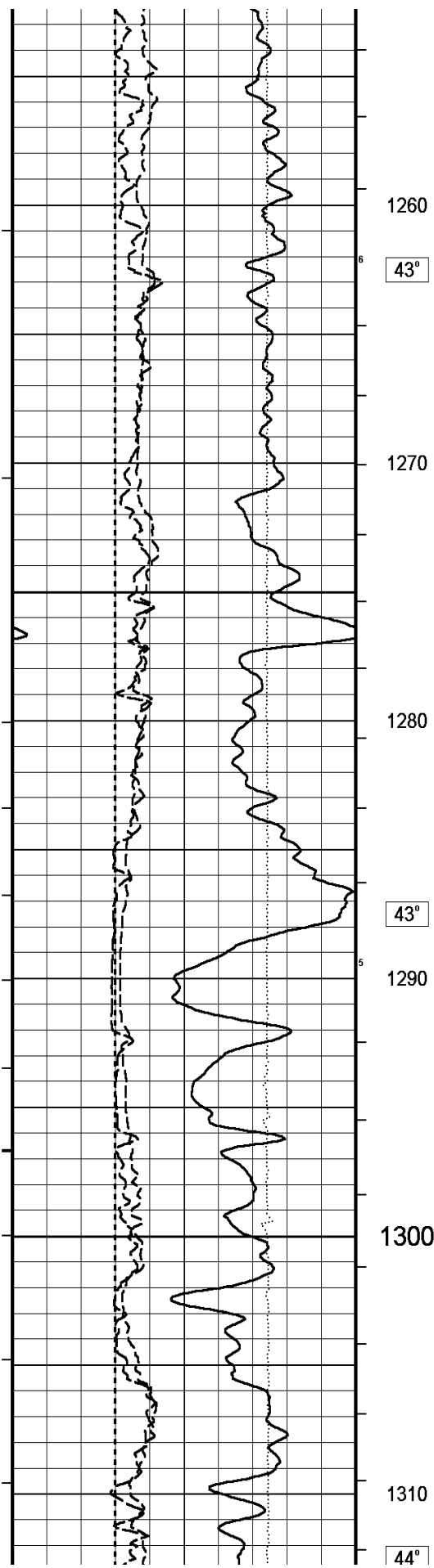


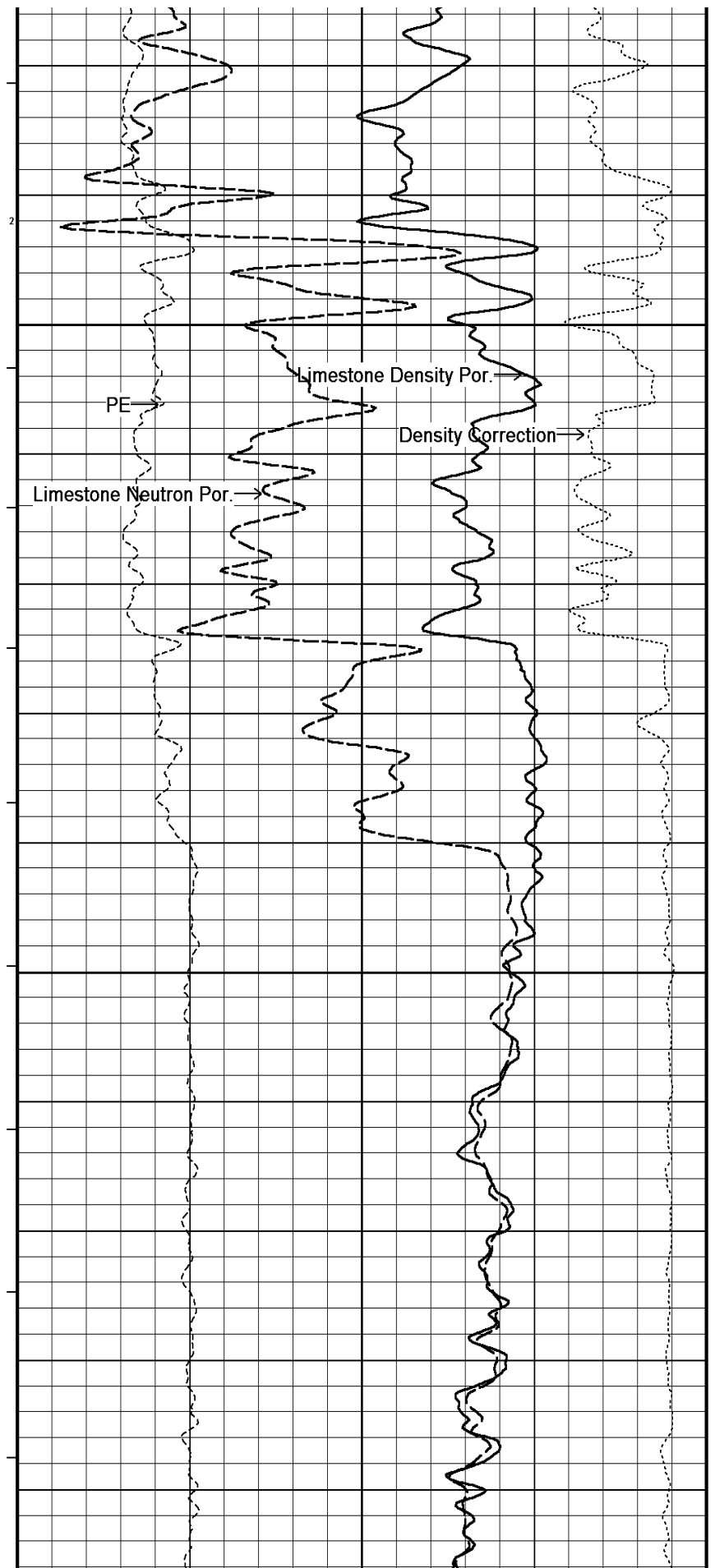
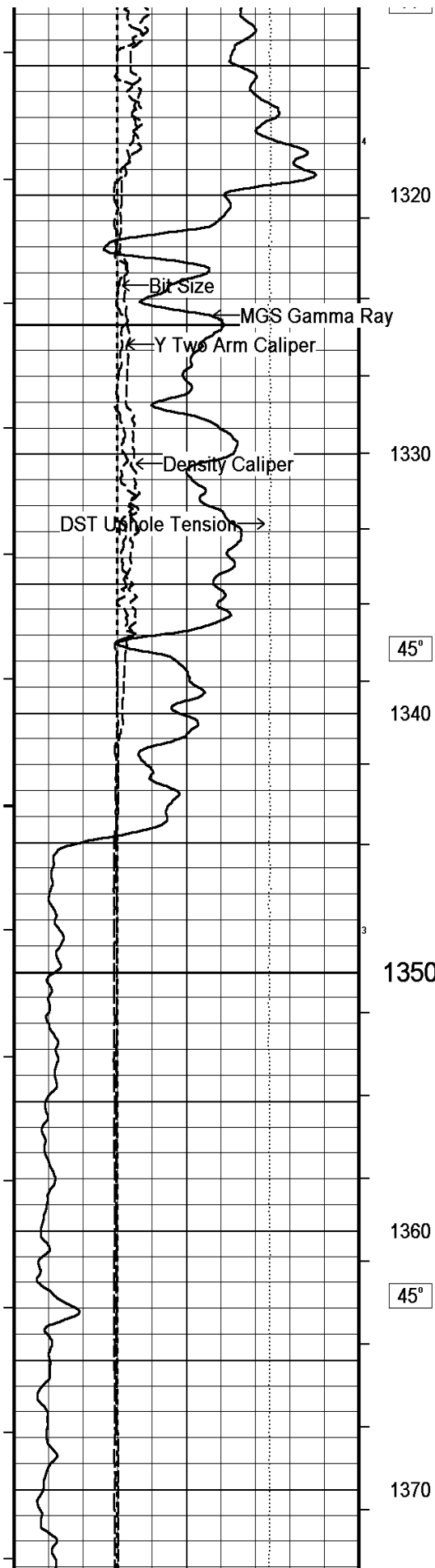


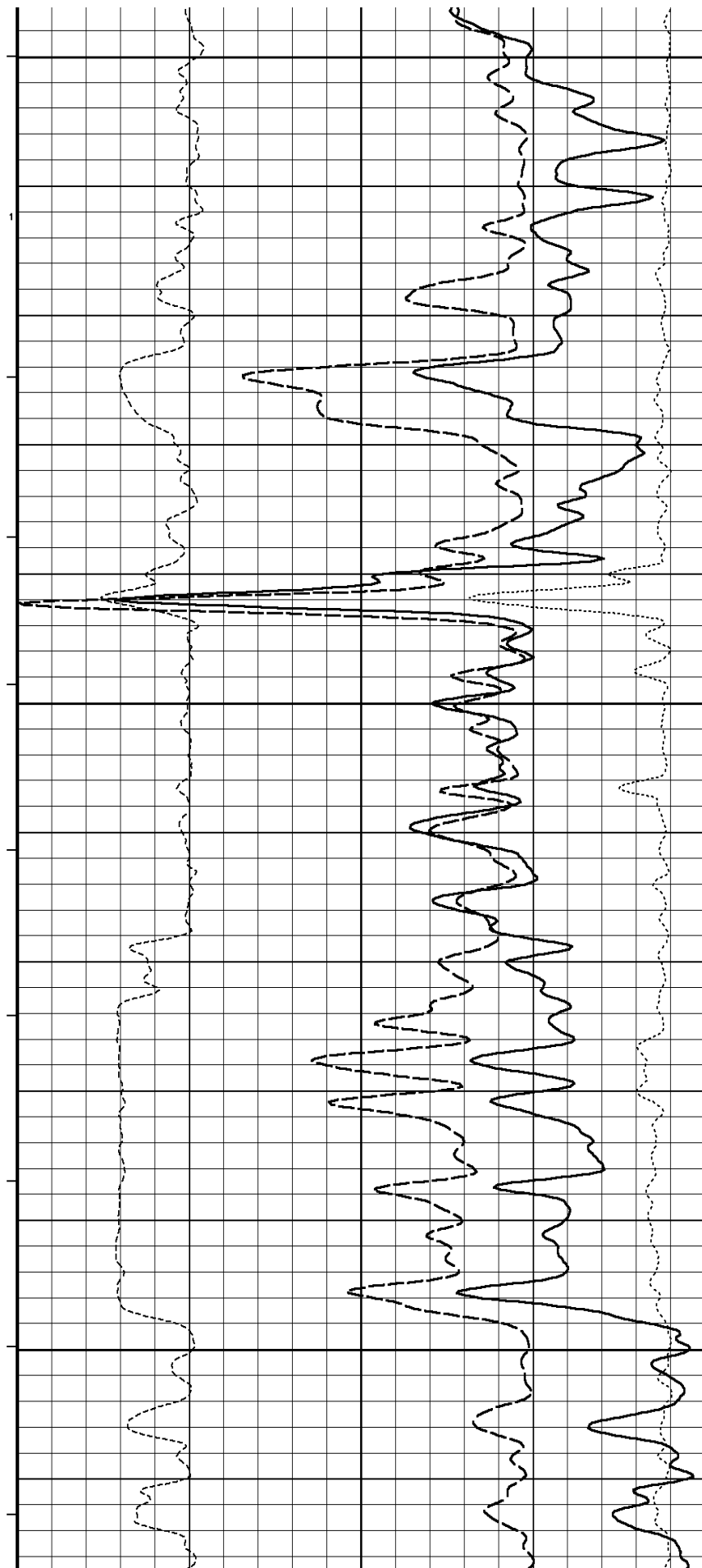
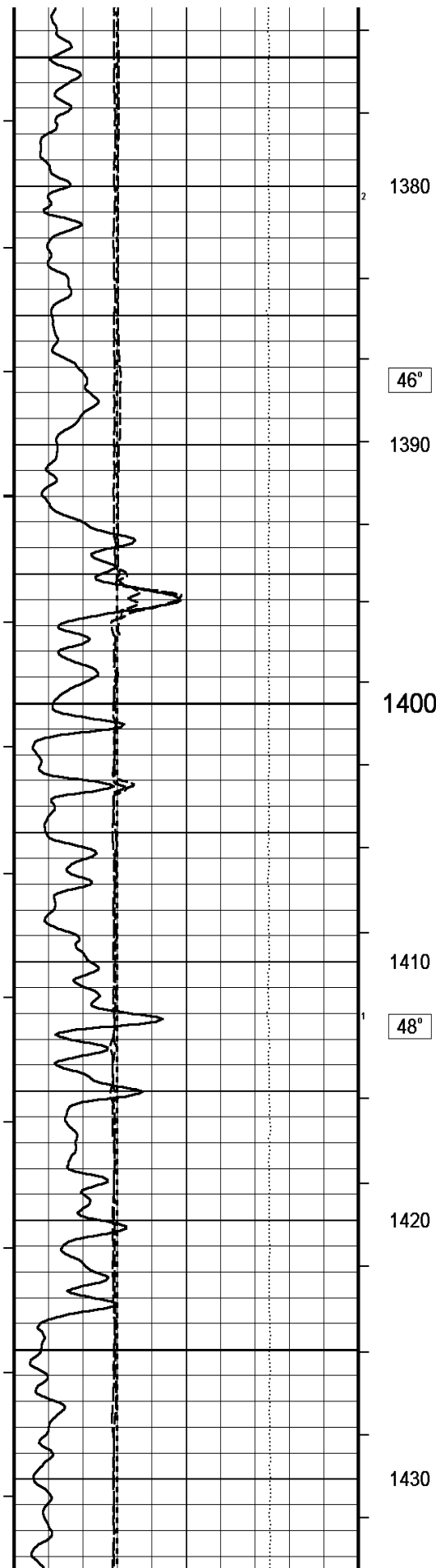


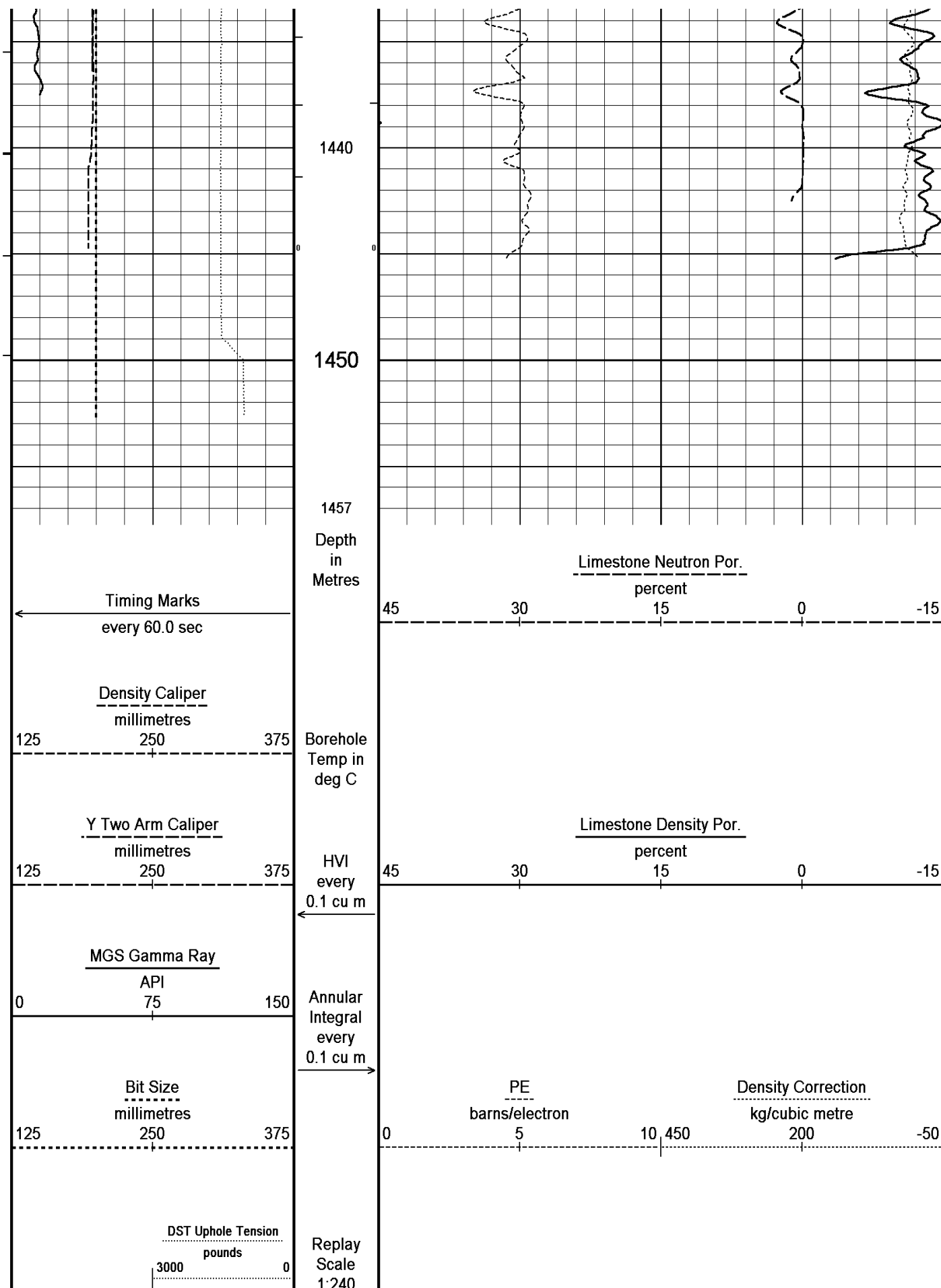












Depth Based Data - Maximum Sampling Increment 10.0cm
Filename: C:\Temp\Weatherford PreView\0\MAIN LOG.dta
System Versions: Processed with 8.00.0015 Plotted with 8.01.0091

Plotted on 12-NOV-2007 09:26
Recorded on 15-FEB-2007 08:46



LIMESTONE MAINLOG

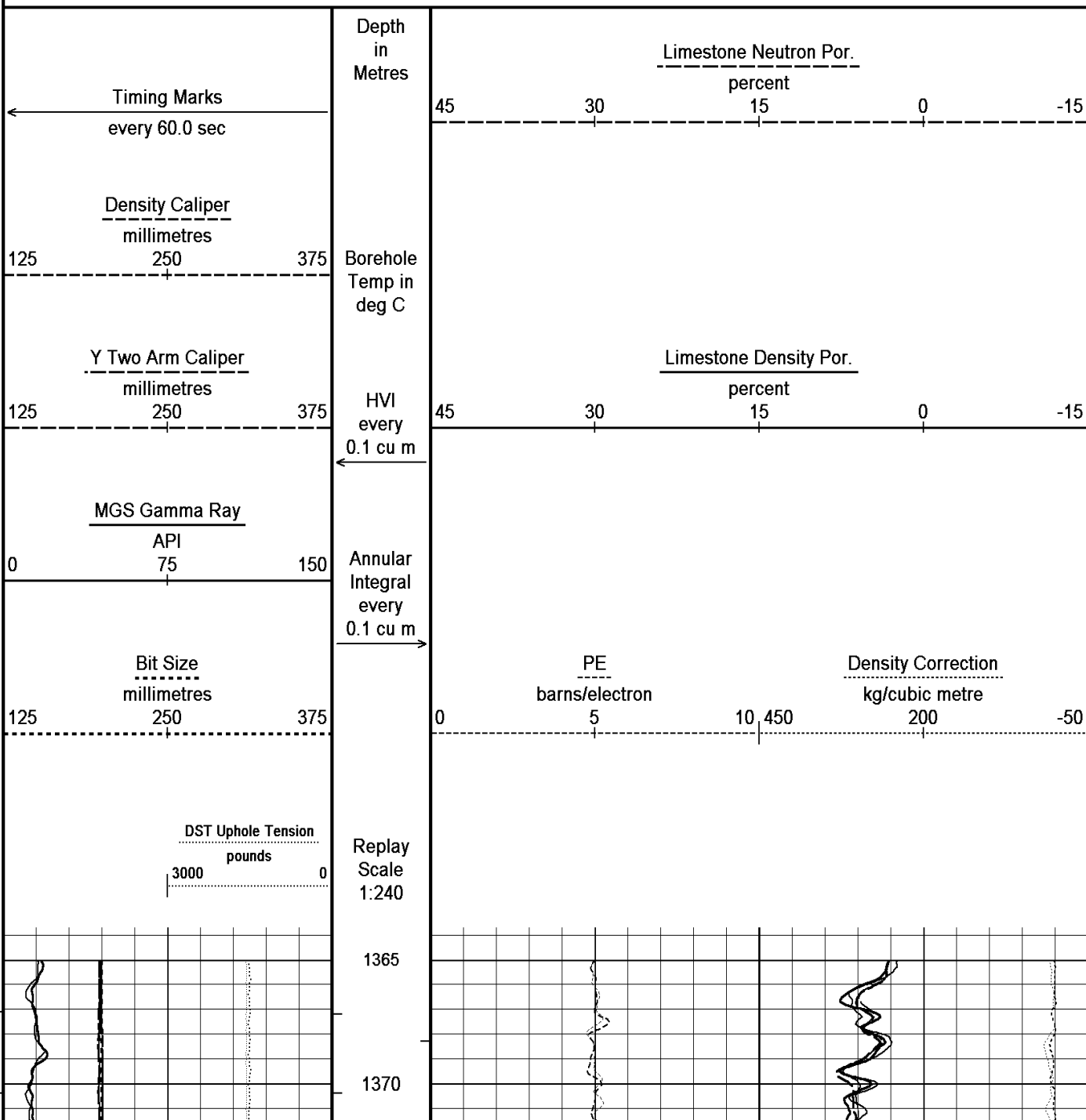


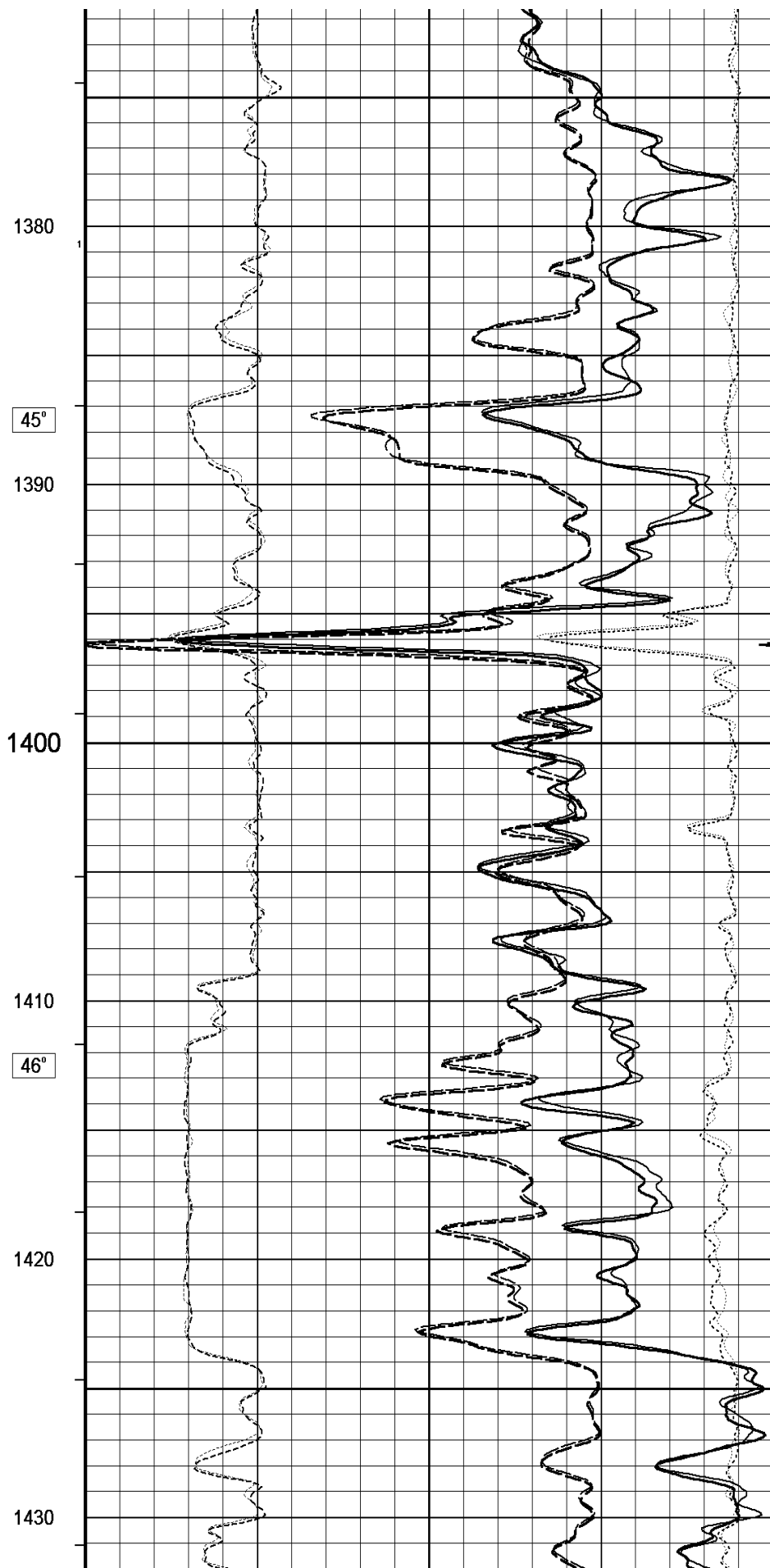
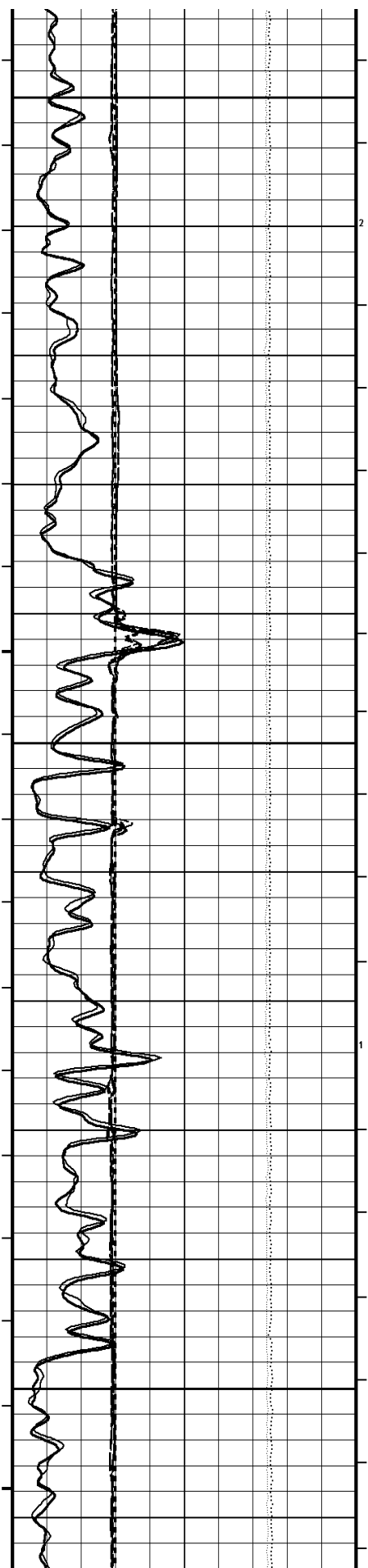
LIMESTONE REPEAT SANDSTONE MAINLOG

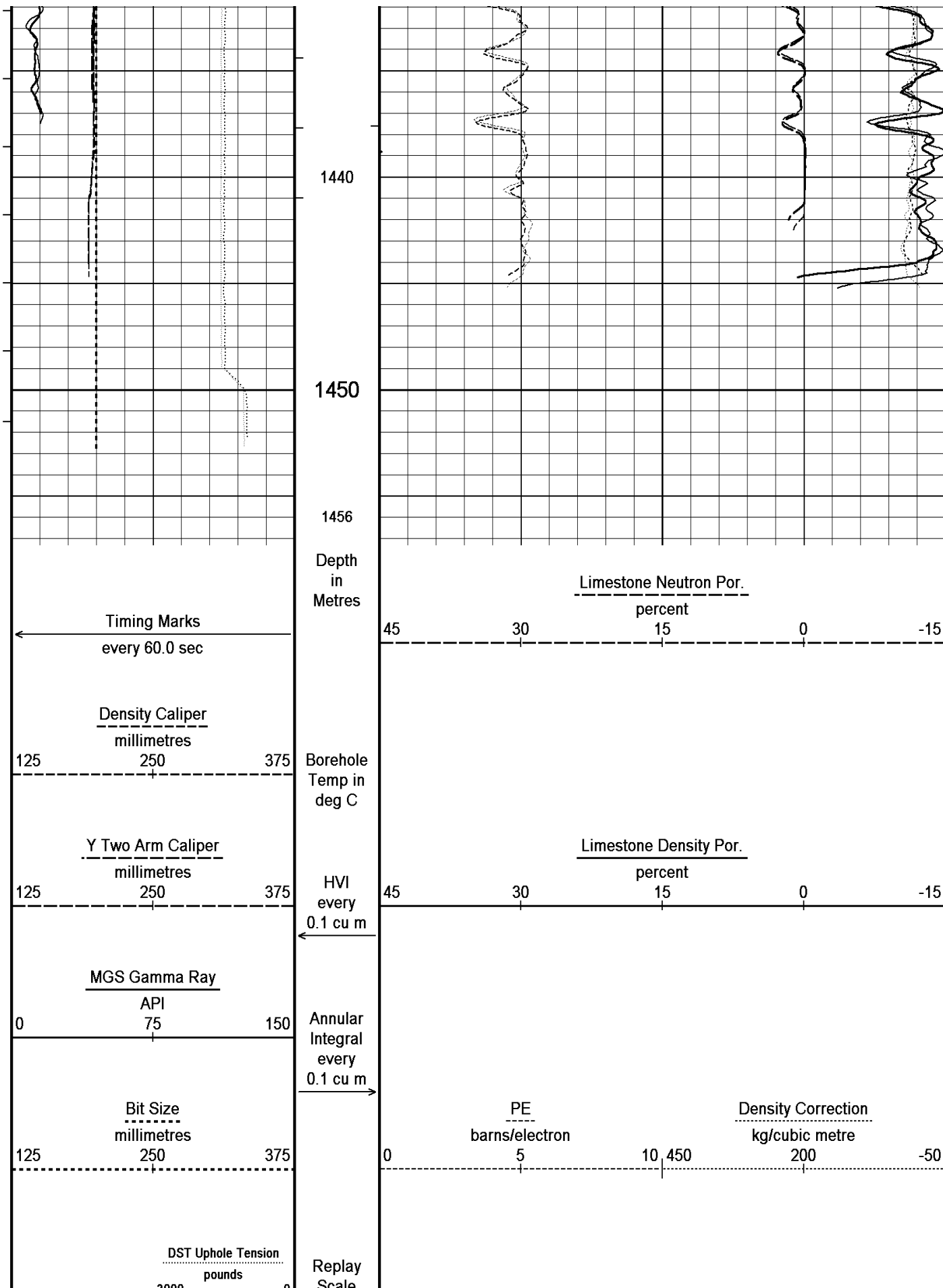


Depth Based Data - Maximum Sampling Increment 10.0cm
Filename: C:\Temp\Weatherford PreView\0\REPEAT.dta
Filename: C:\Temp\Weatherford PreView\0\MAIN LOG.dta
System Versions: Logged with 7.01.0195 Processed with 8.00.0015 Plotted with 8.01.0091

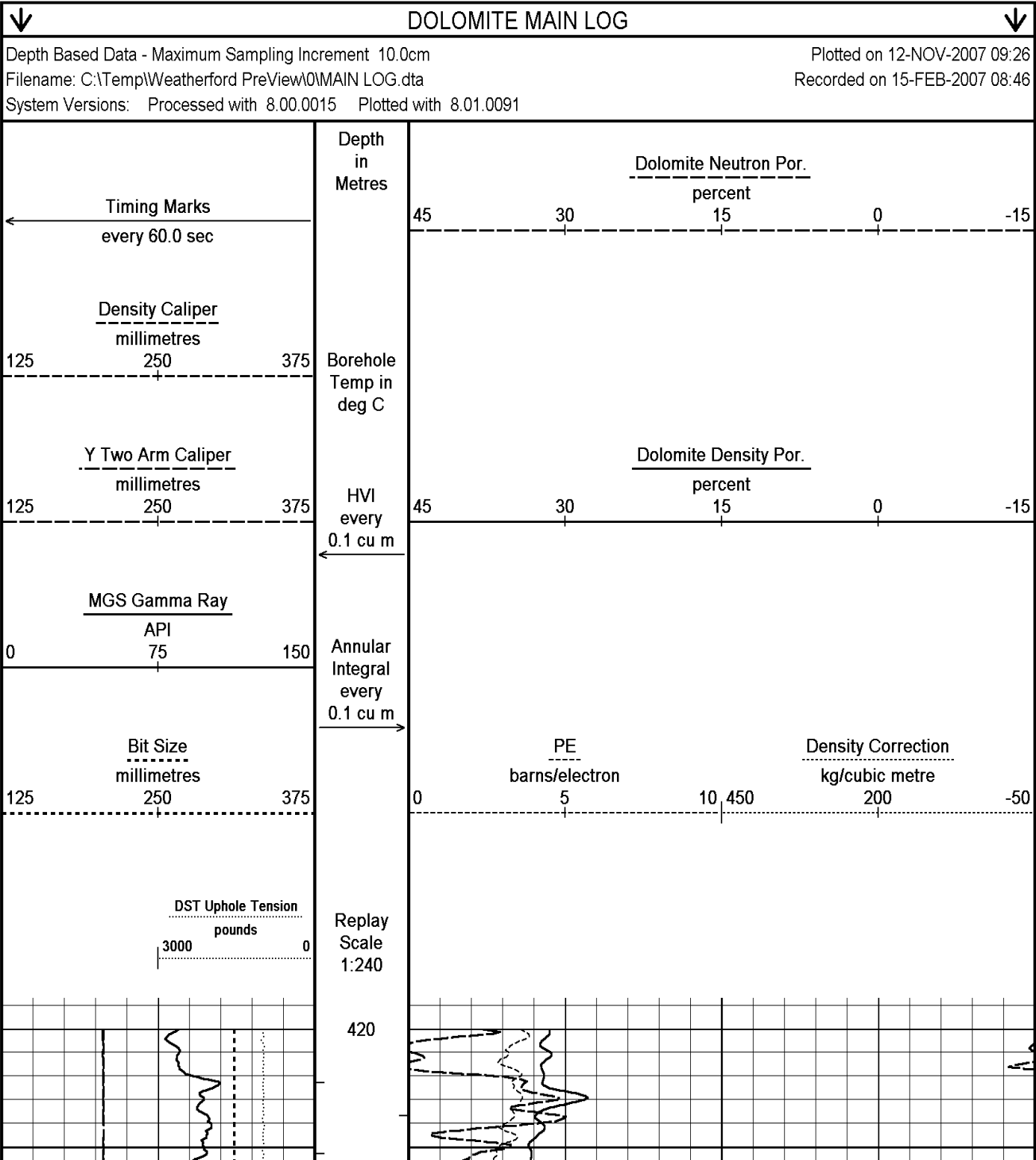
Plotted on 12-NOV-2007 09:26
Recorded on 15-FEB-2007 07:26
Recorded on 15-FEB-2007 08:46

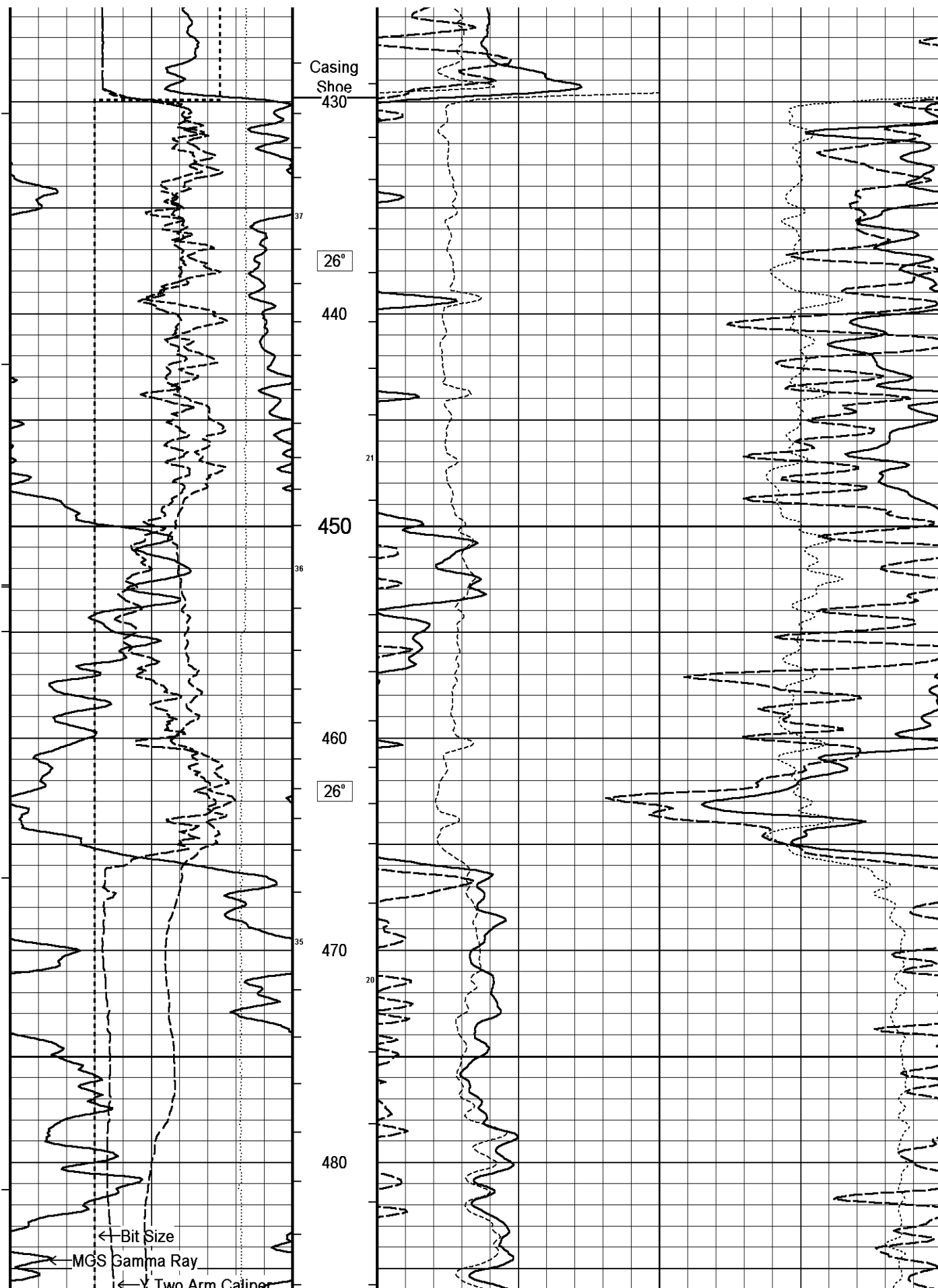


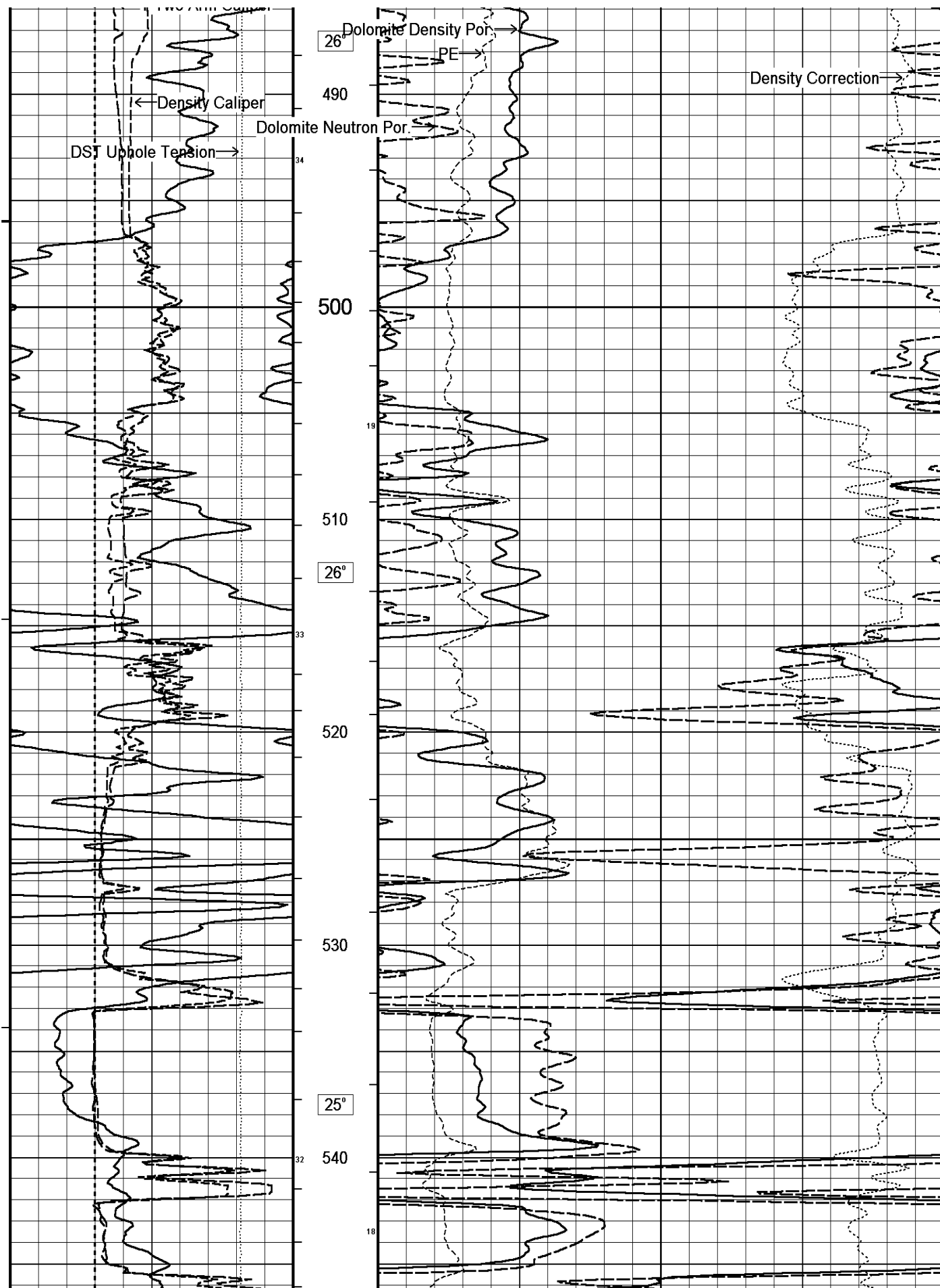


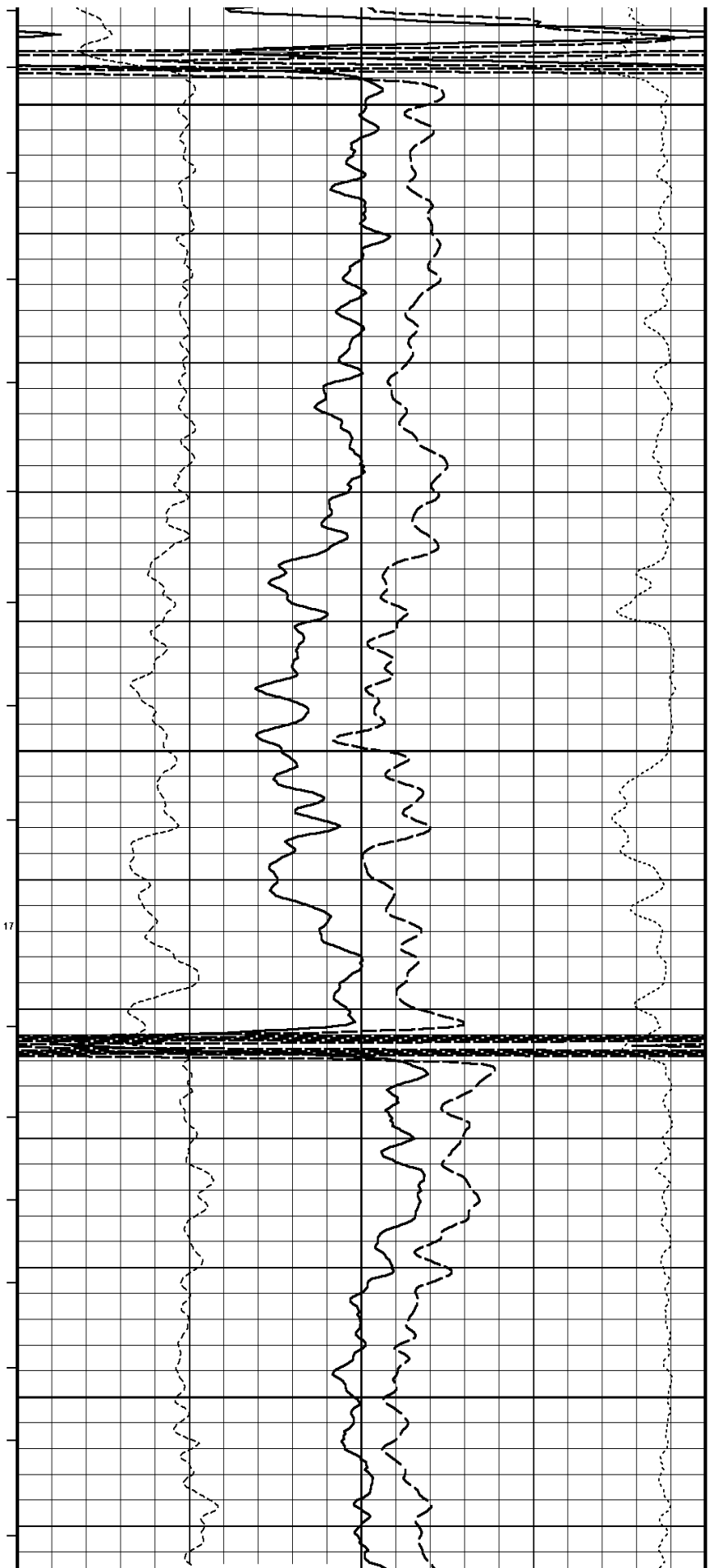
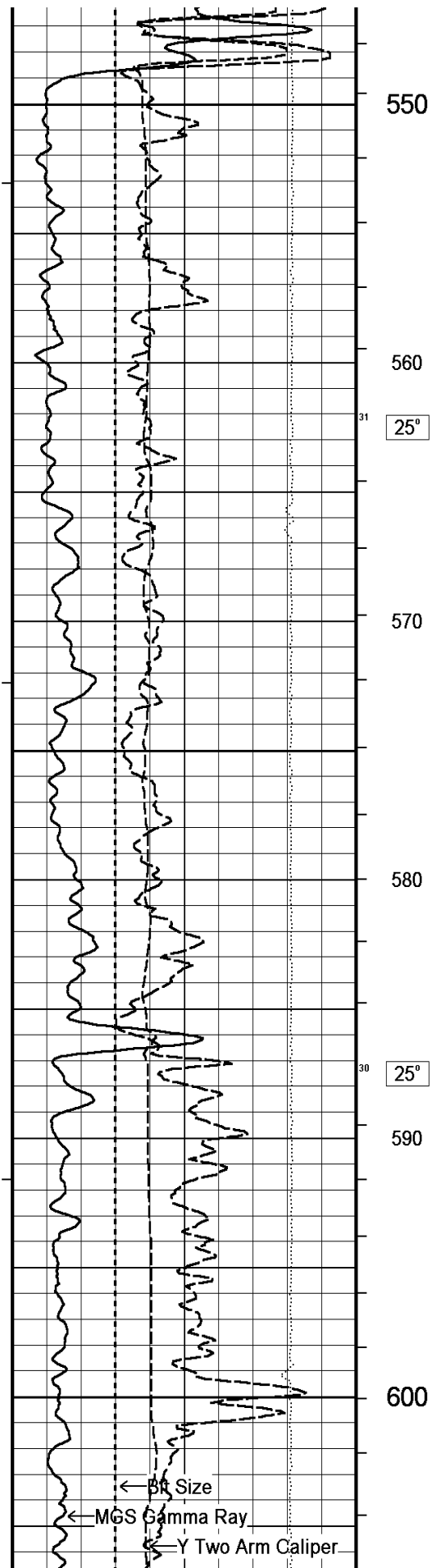


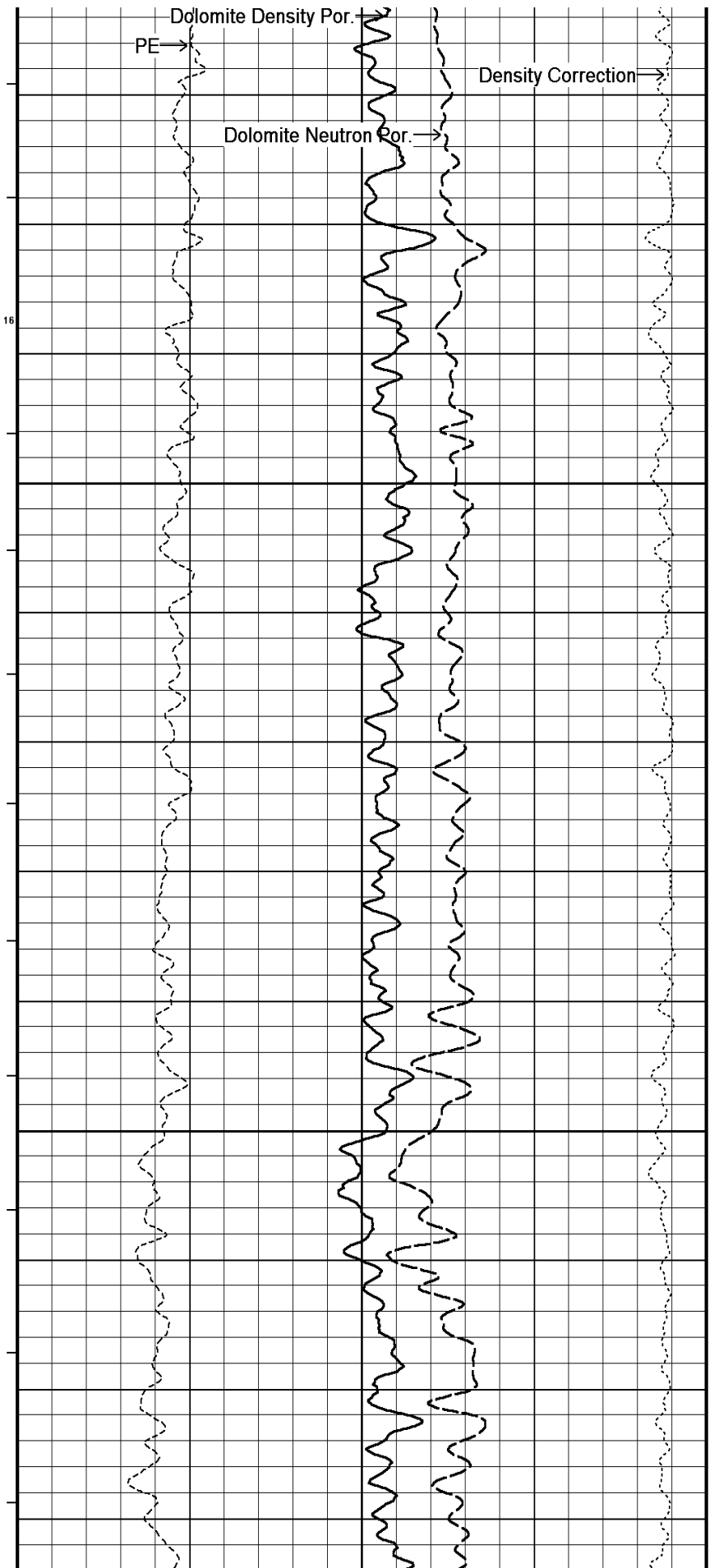
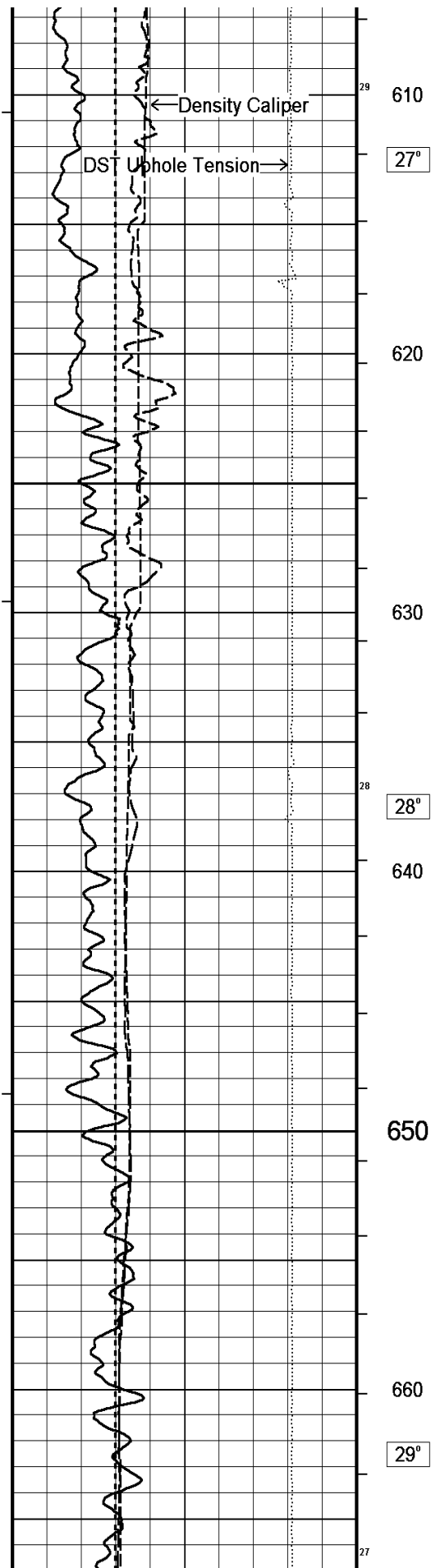
Scale 1:240	Plotted on 12-NOV-2007 09:26 Recorded on 15-FEB-2007 07:26 Recorded on 15-FEB-2007 08:46
Depth Based Data - Maximum Sampling Increment 10.0cm Filename: C:\Temp\Weatherford PreView\0\REPEAT.dta Filename: C:\Temp\Weatherford PreView\0\MAIN LOG.dta System Versions: Logged with 7.01.0195 Processed with 8.00.0015 Plotted with 8.01.0091	
↑	LIMESTONE REPEAT SANDSTONE MAINLOG

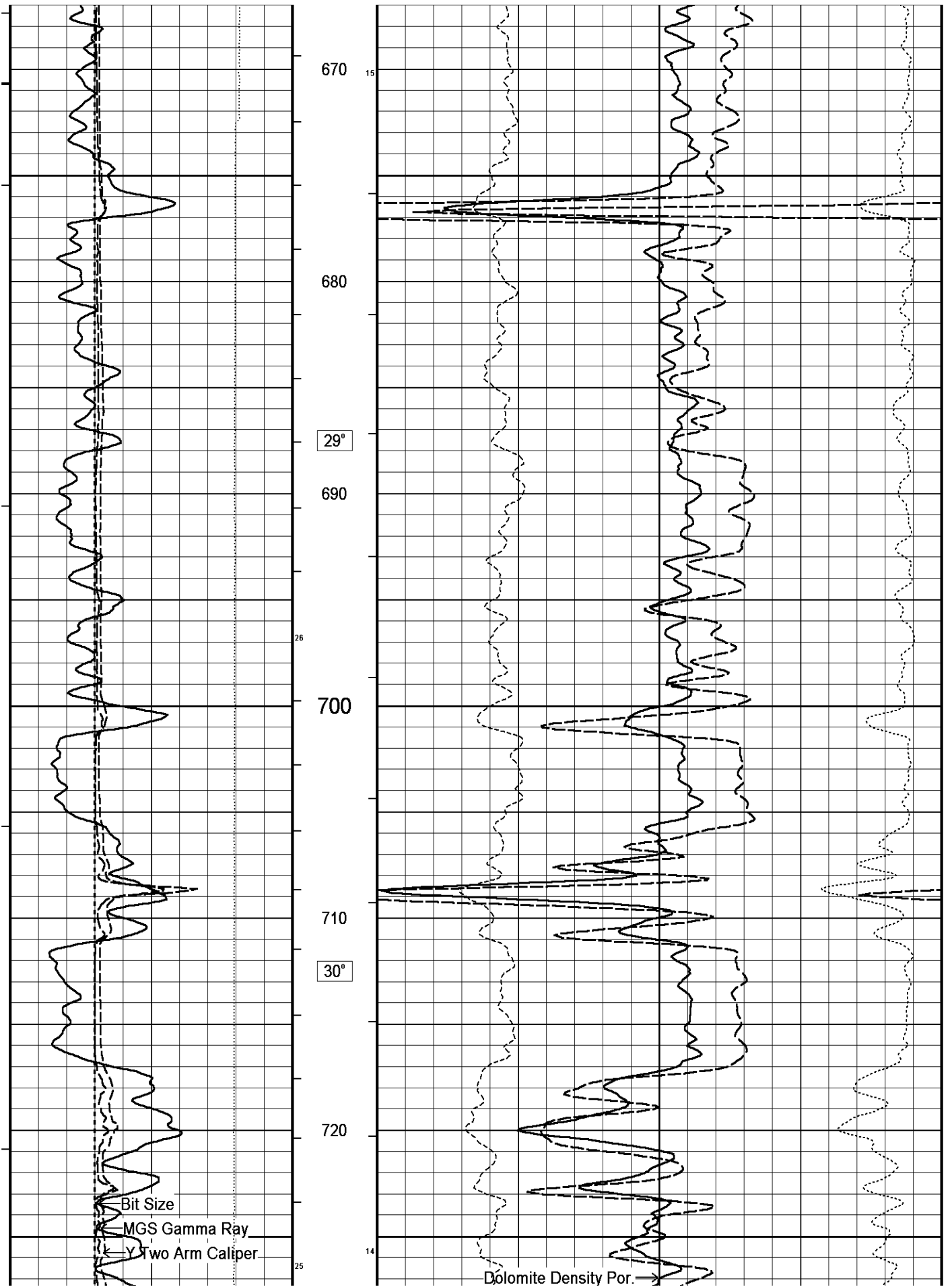


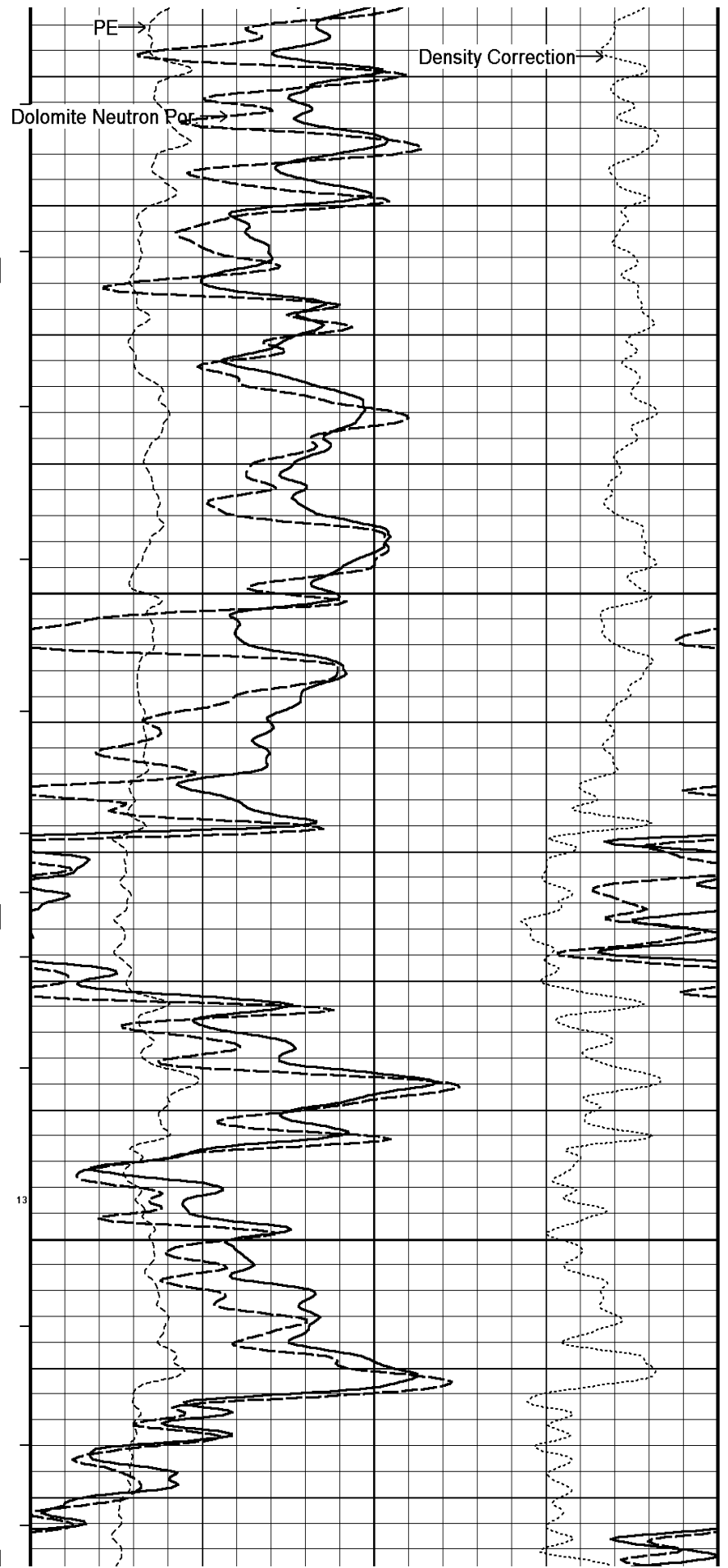
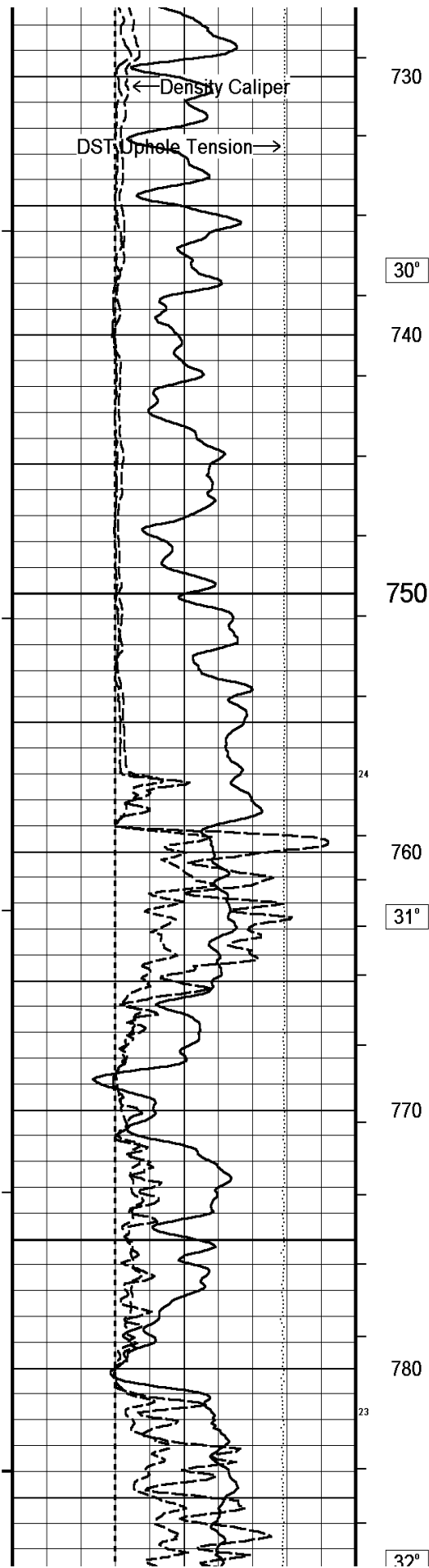


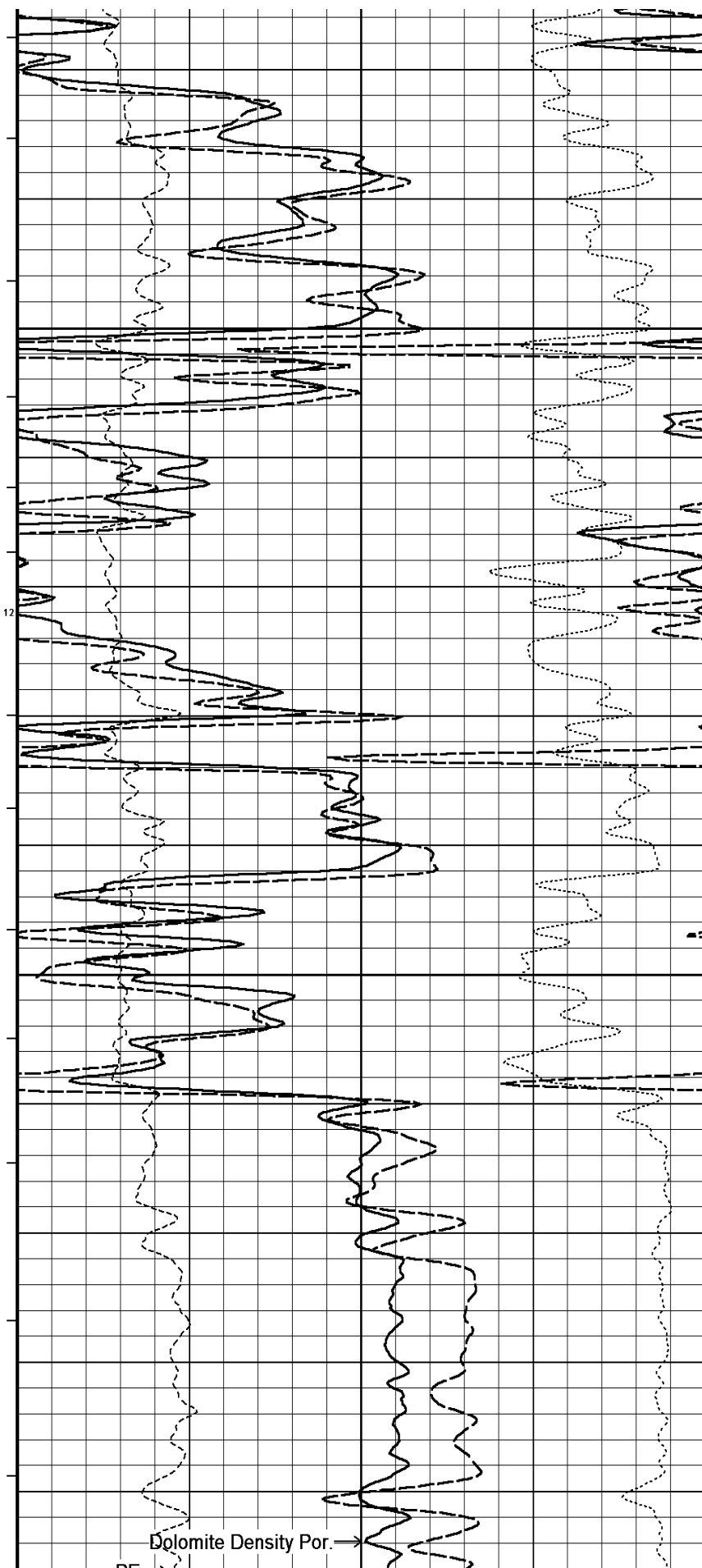
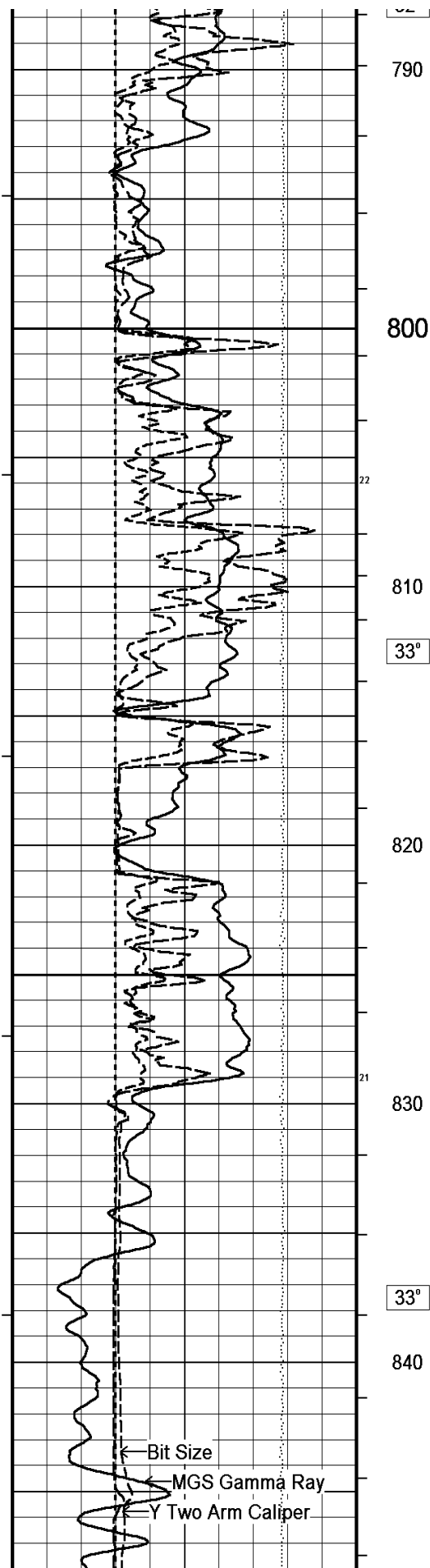


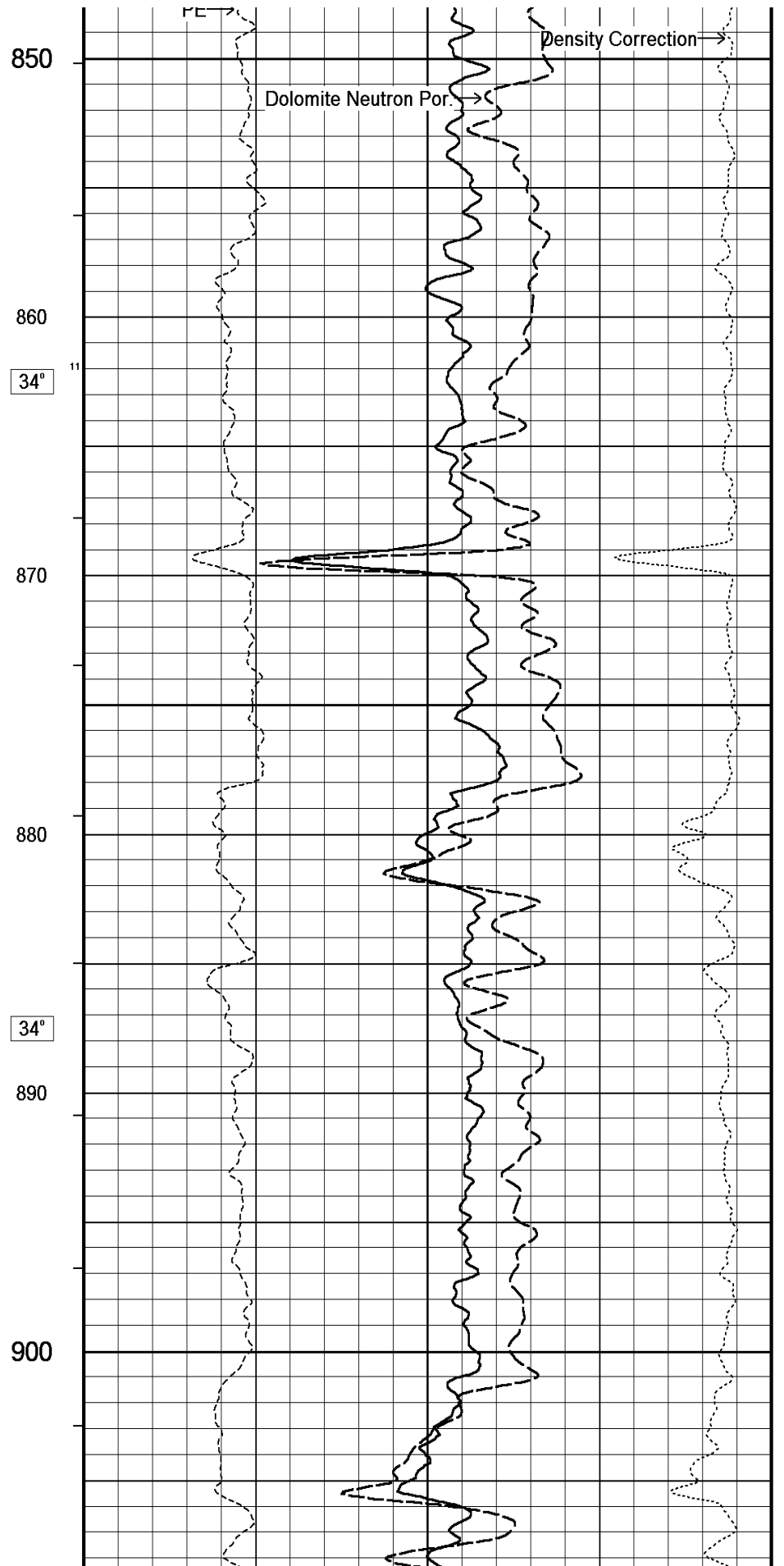
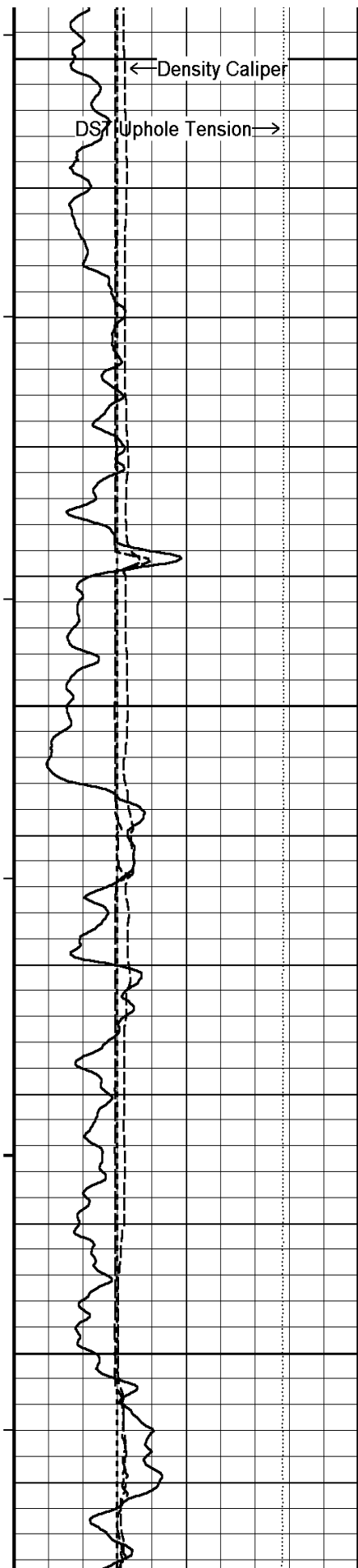


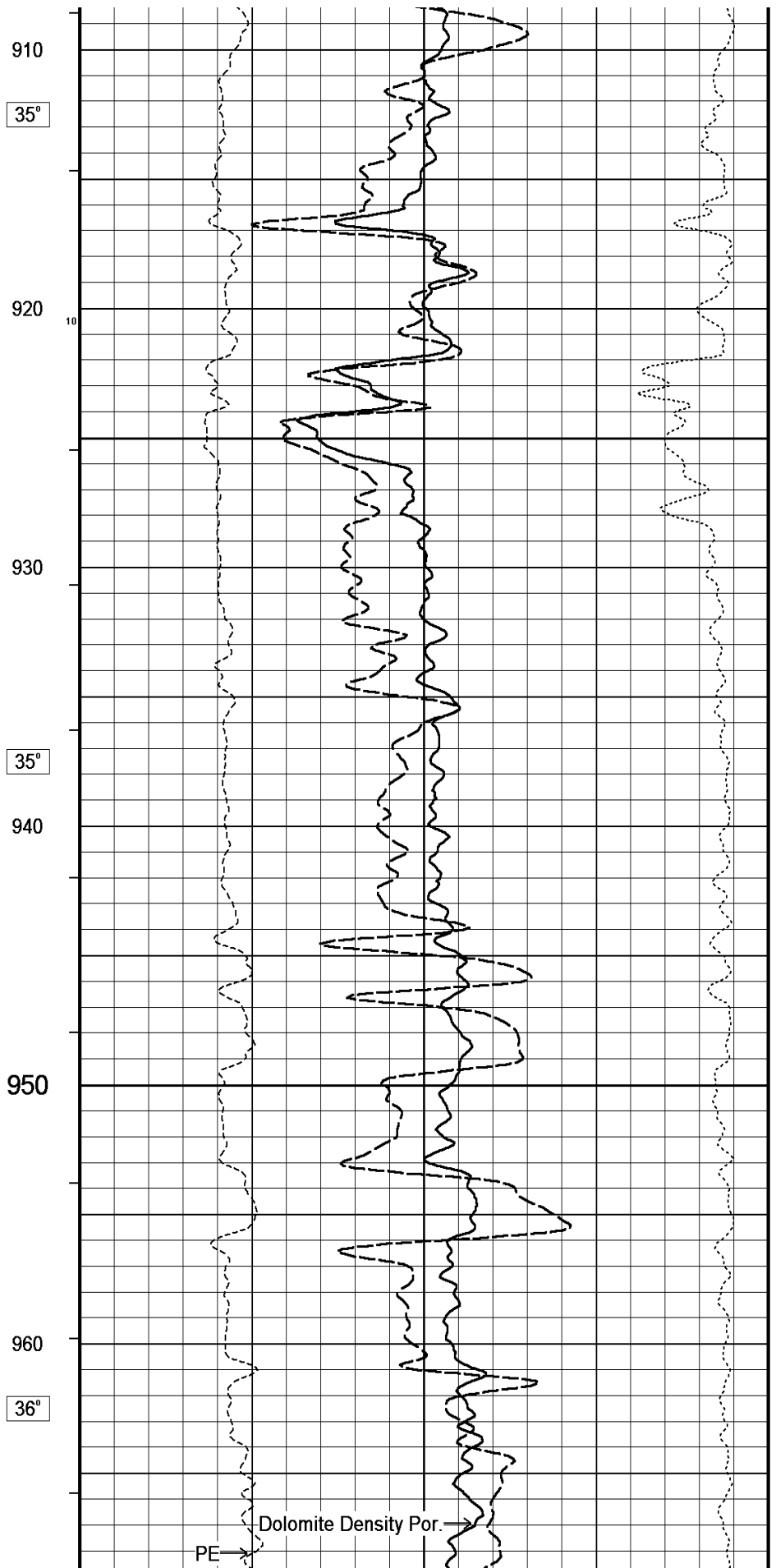
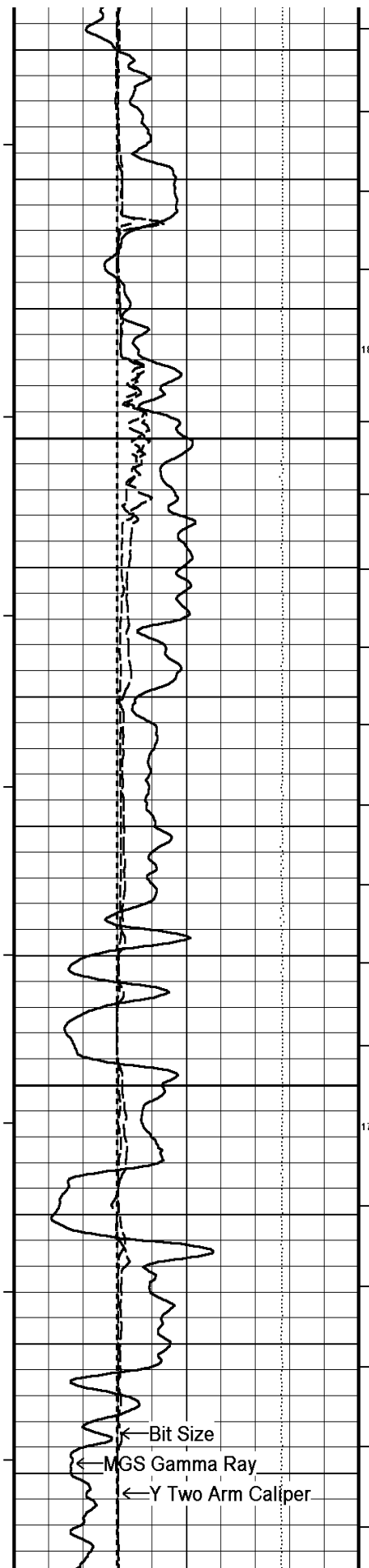


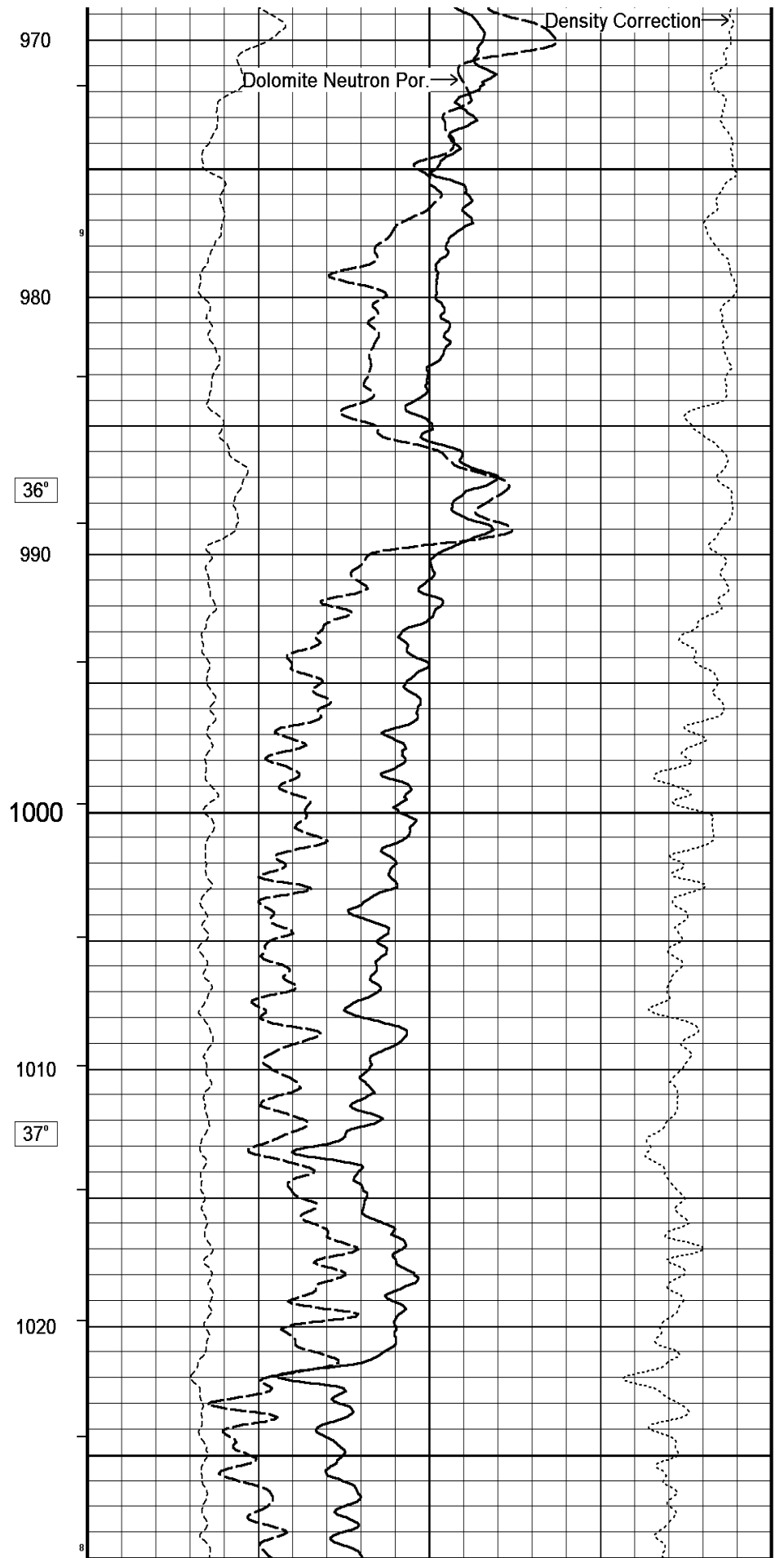
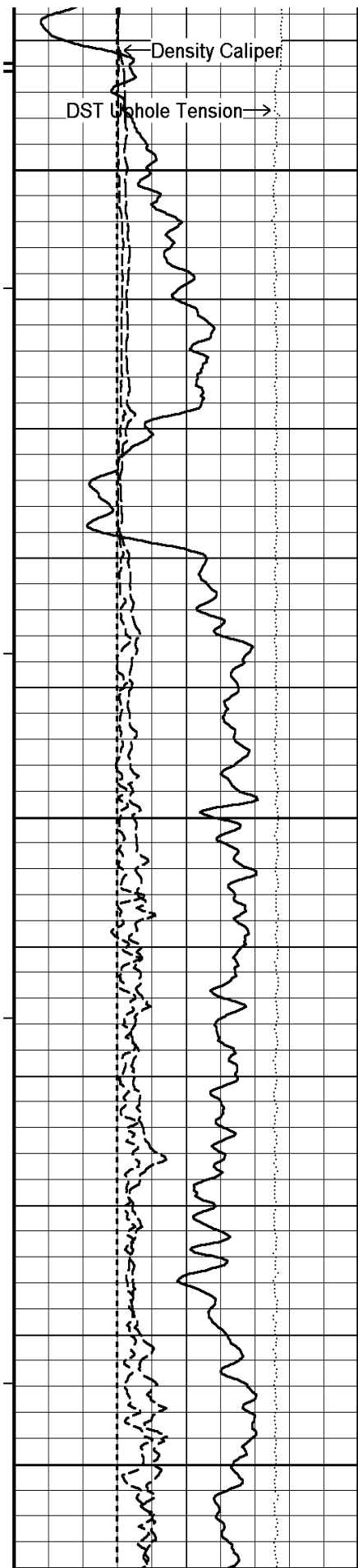


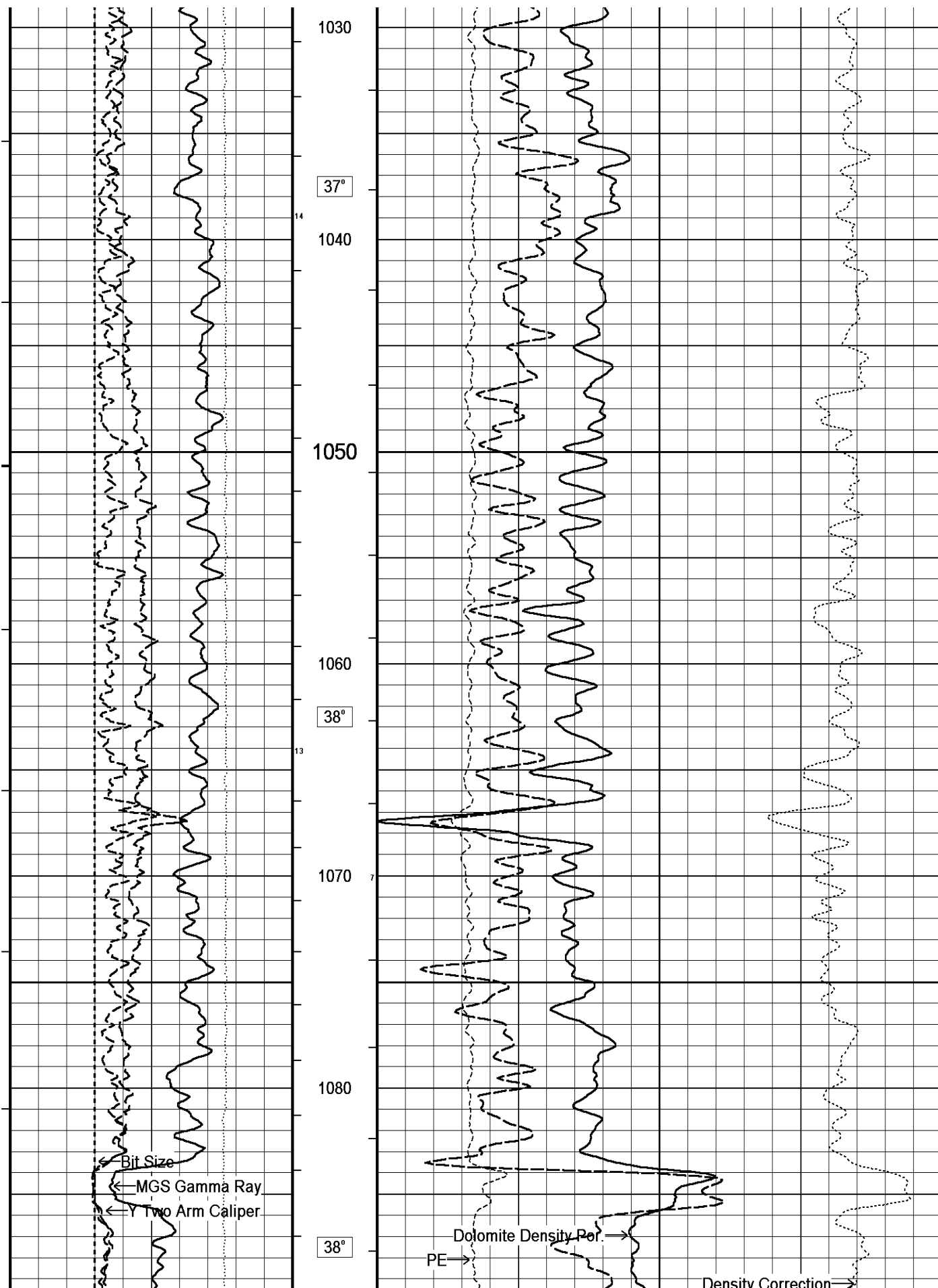


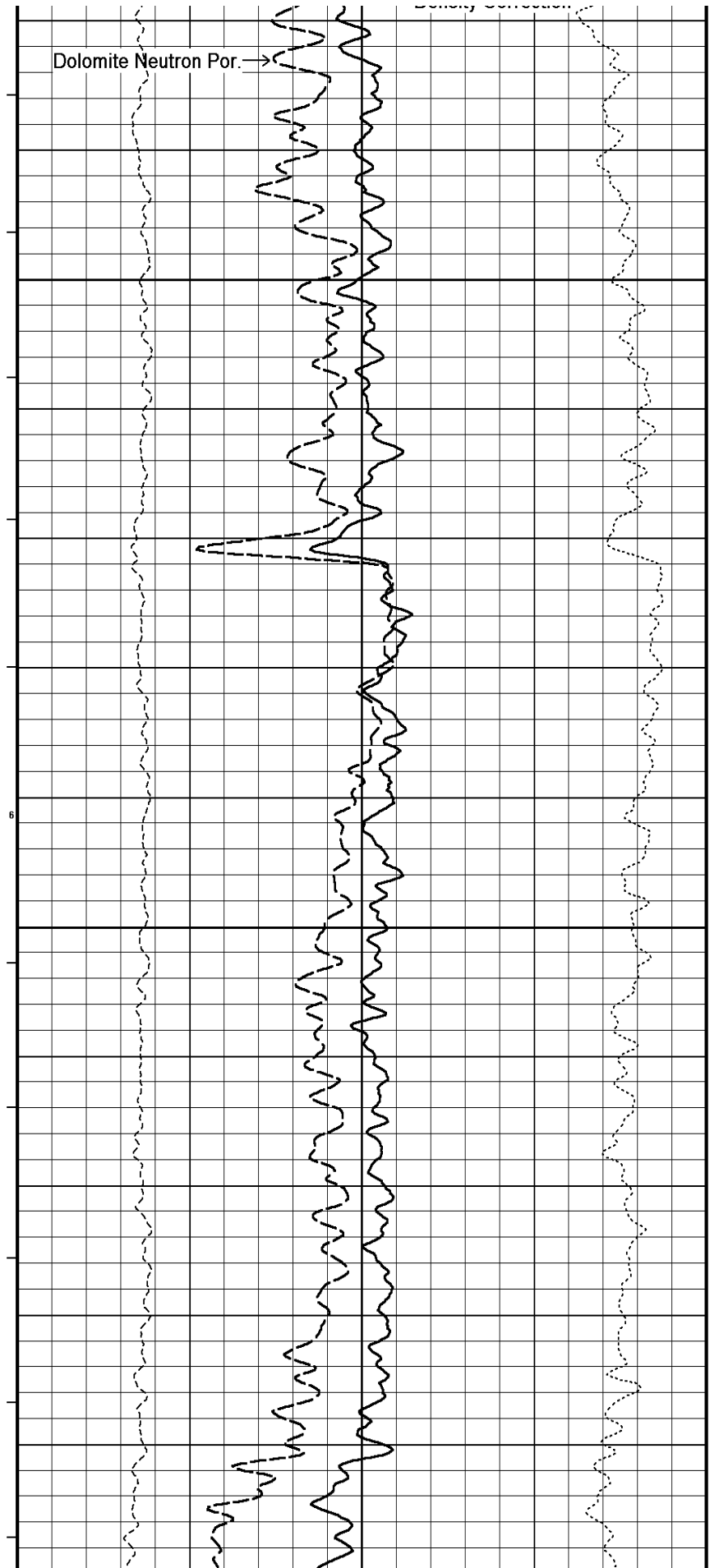
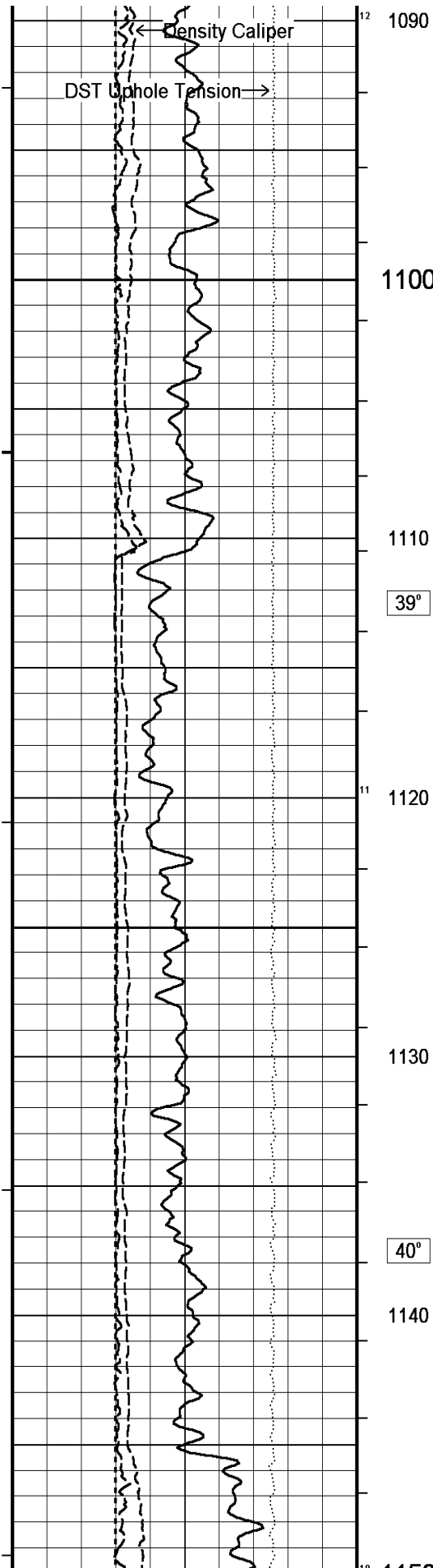


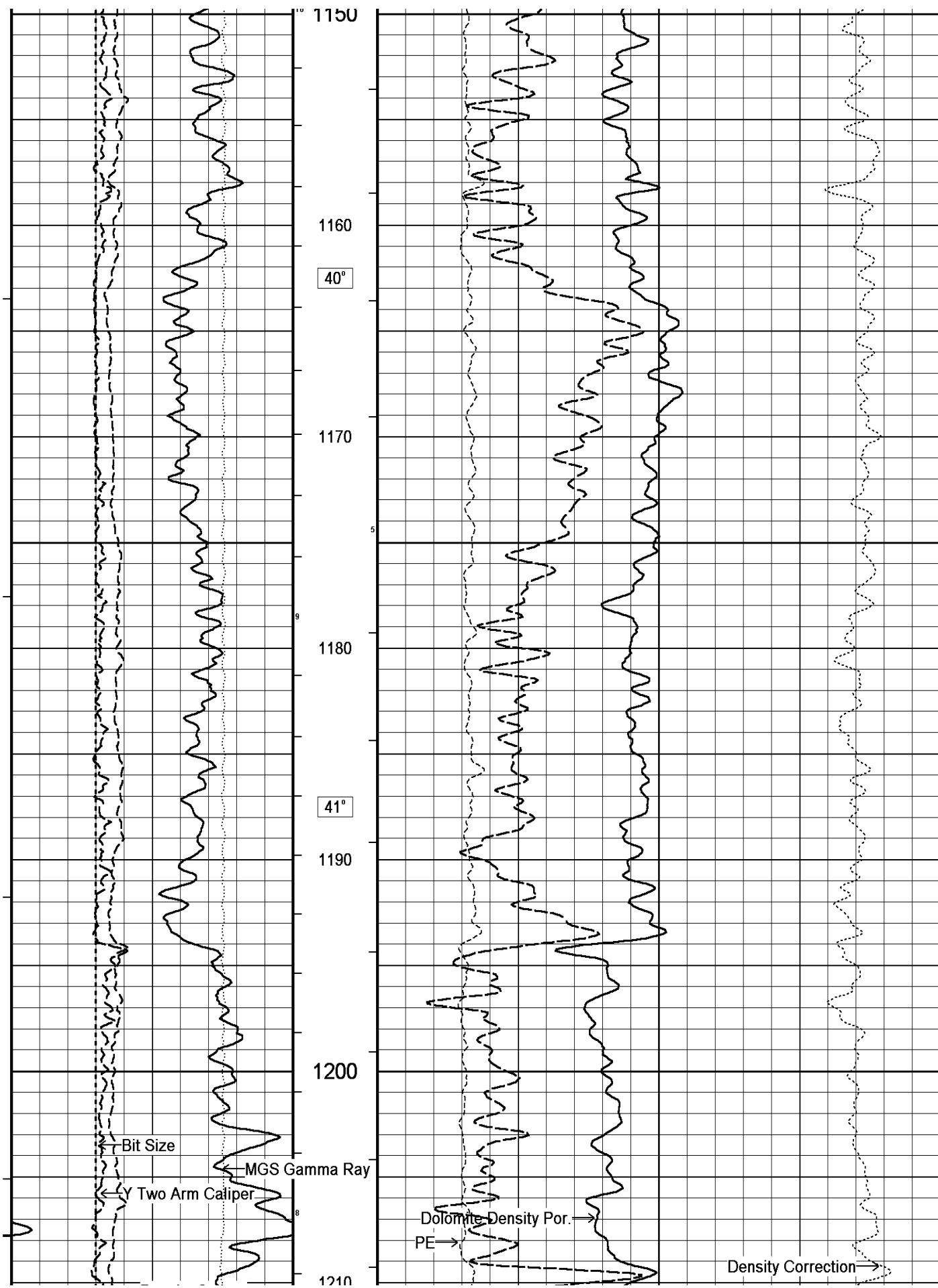


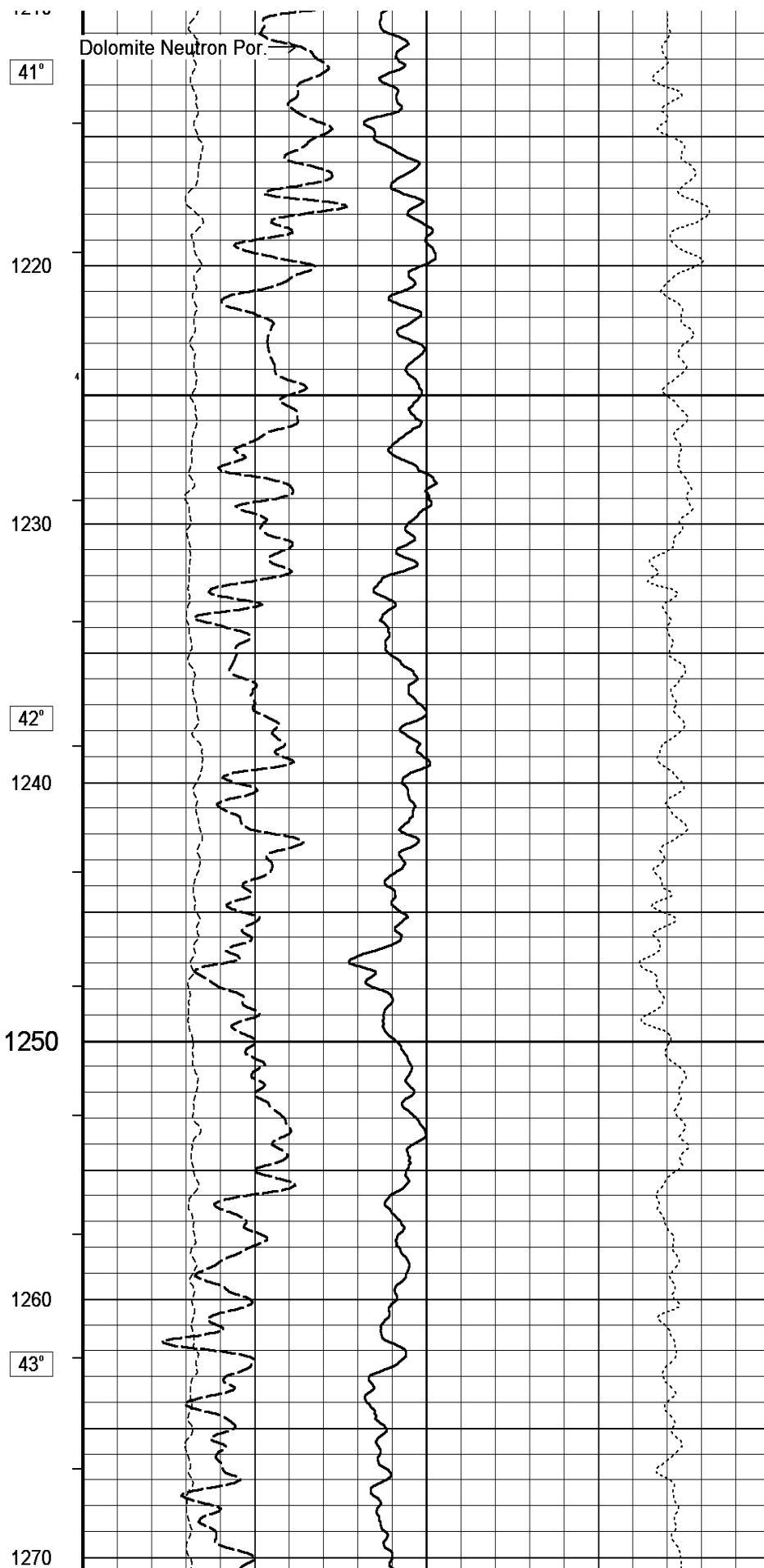
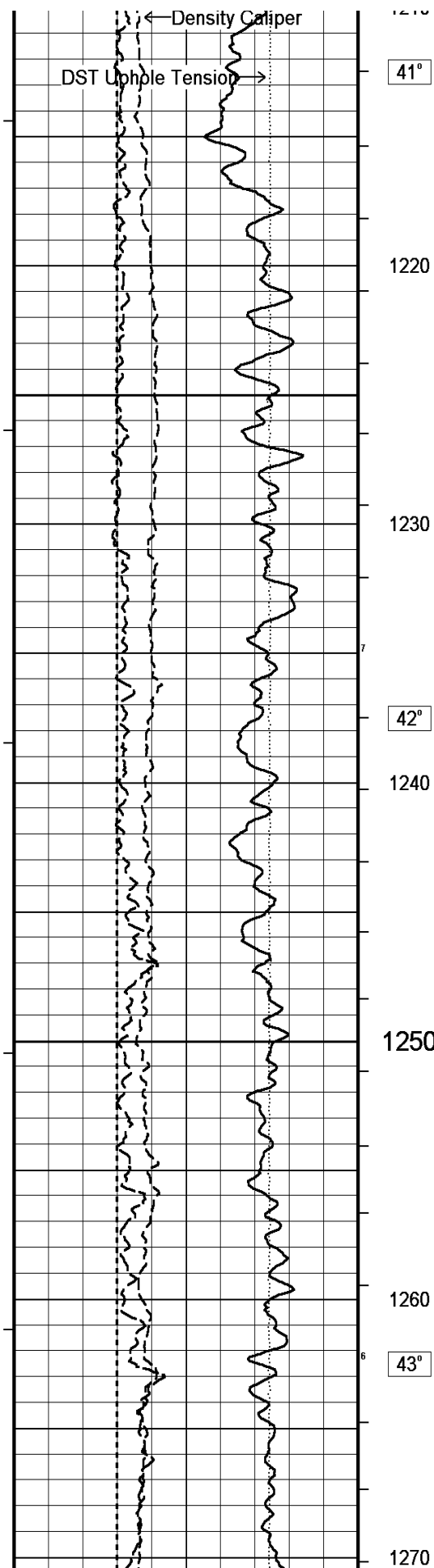


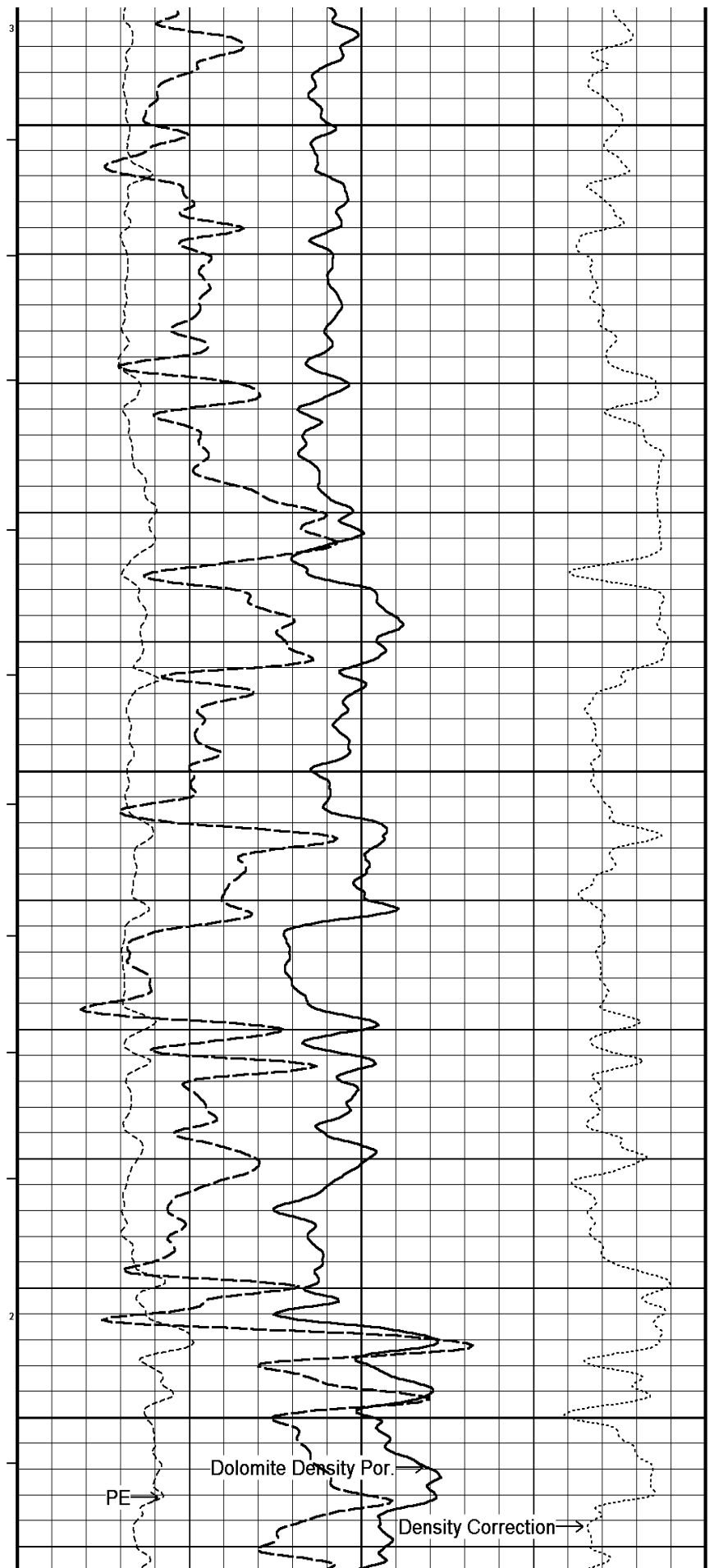
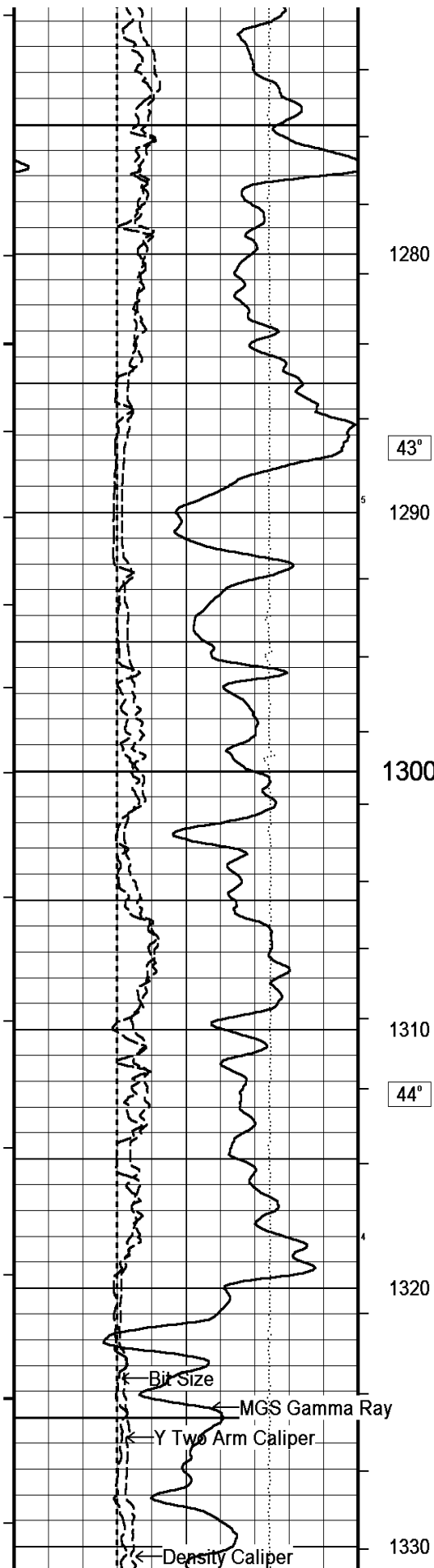


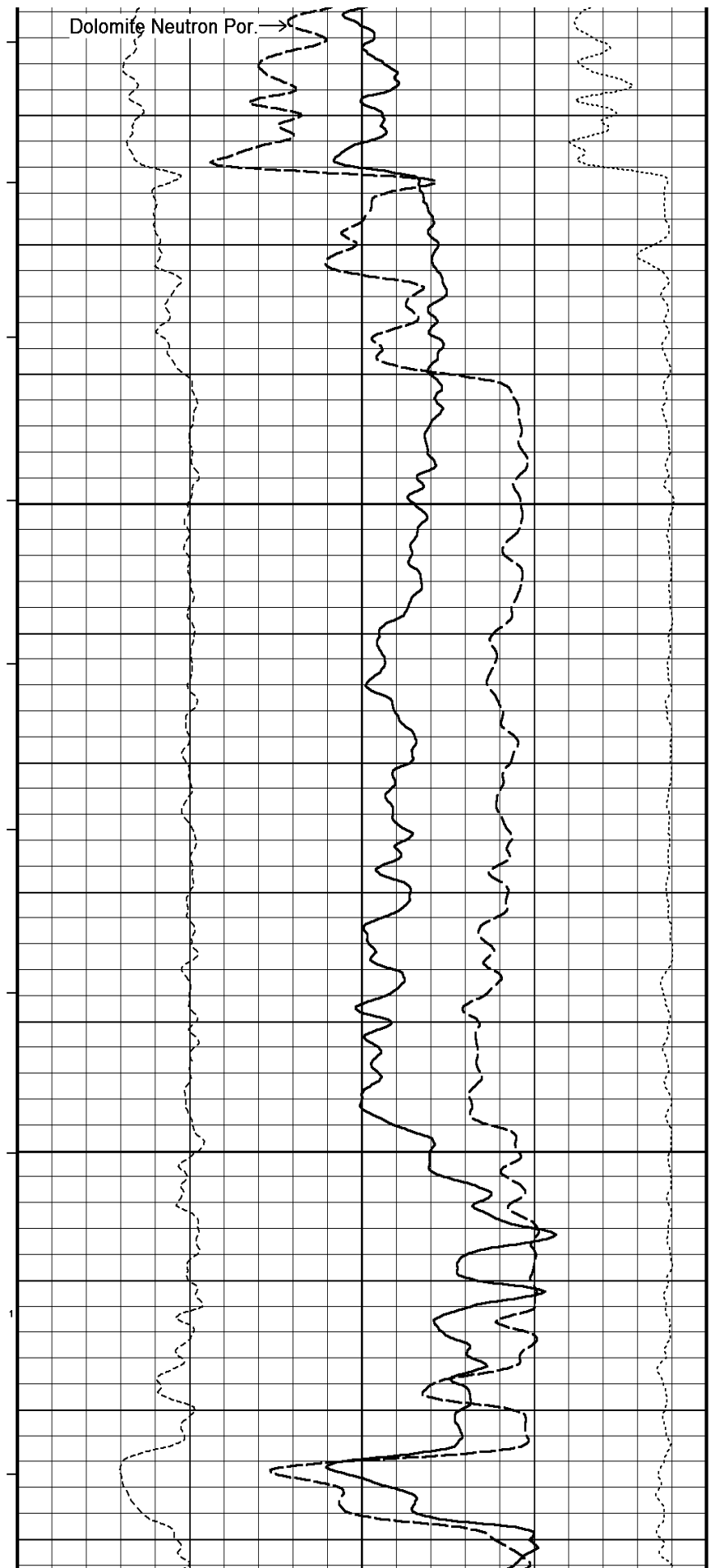
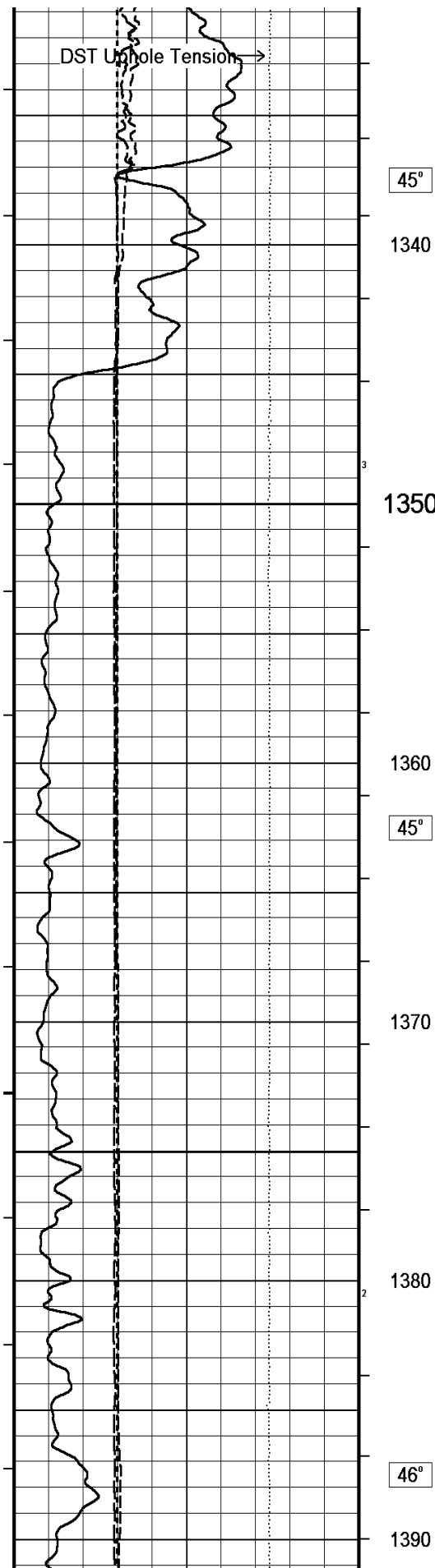


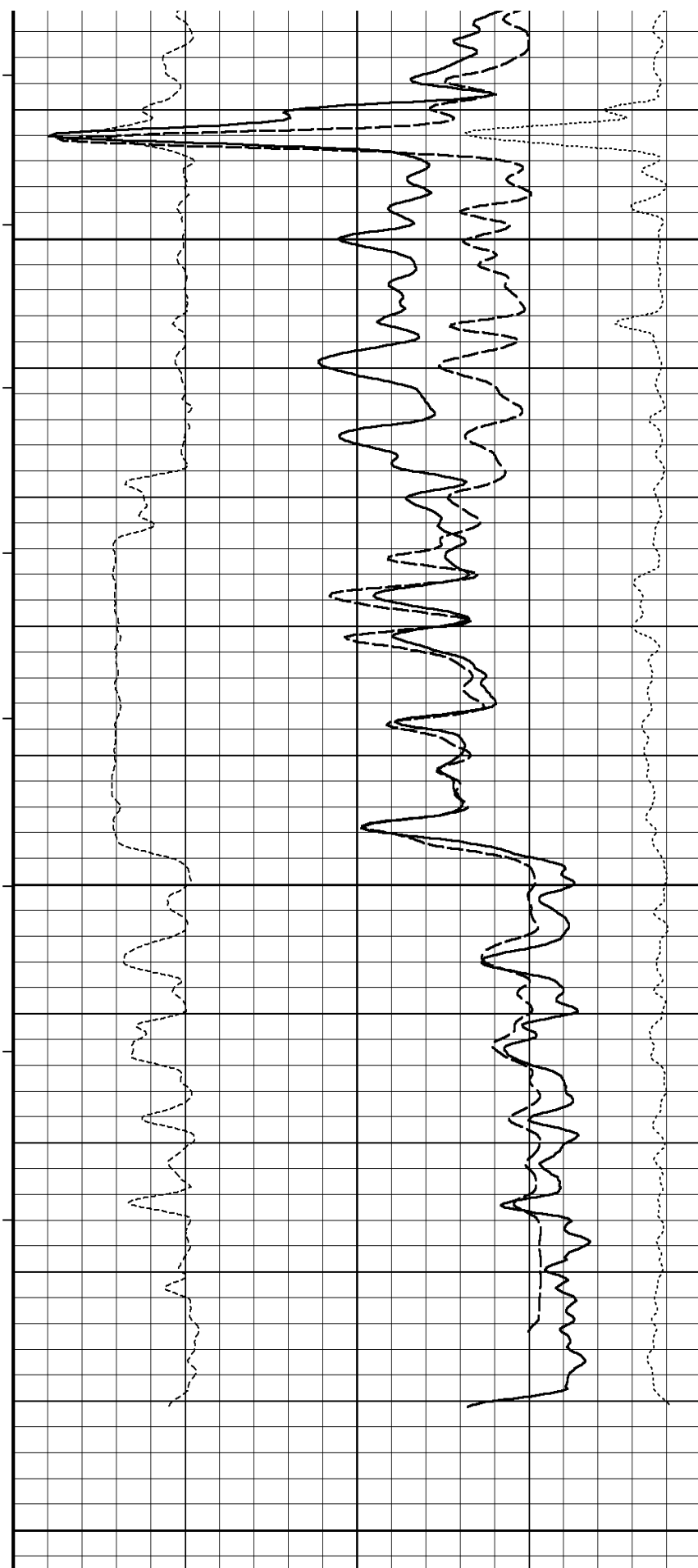
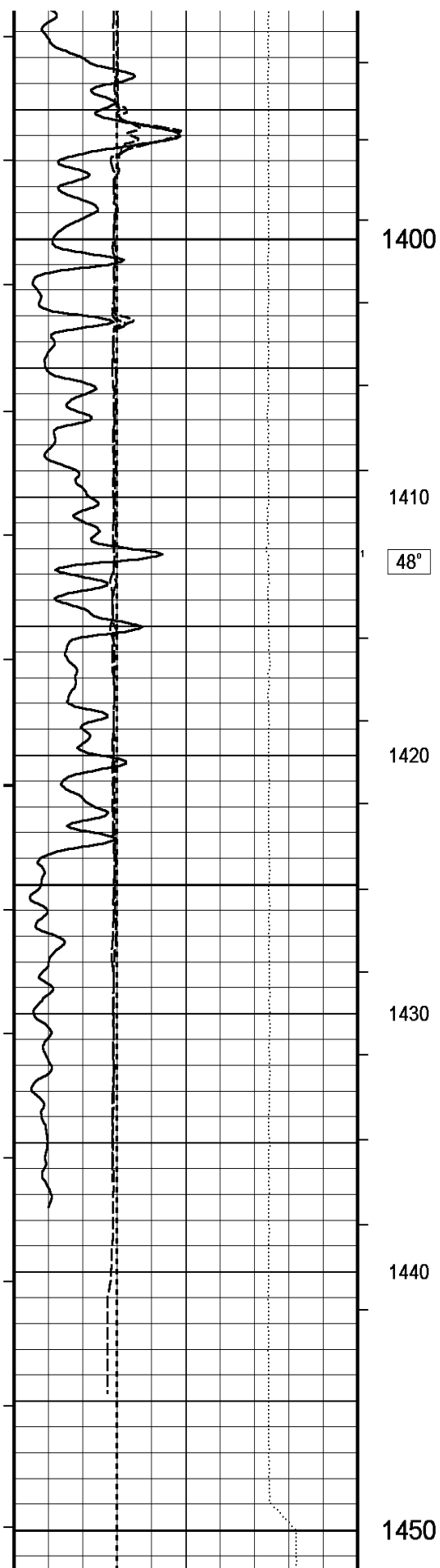


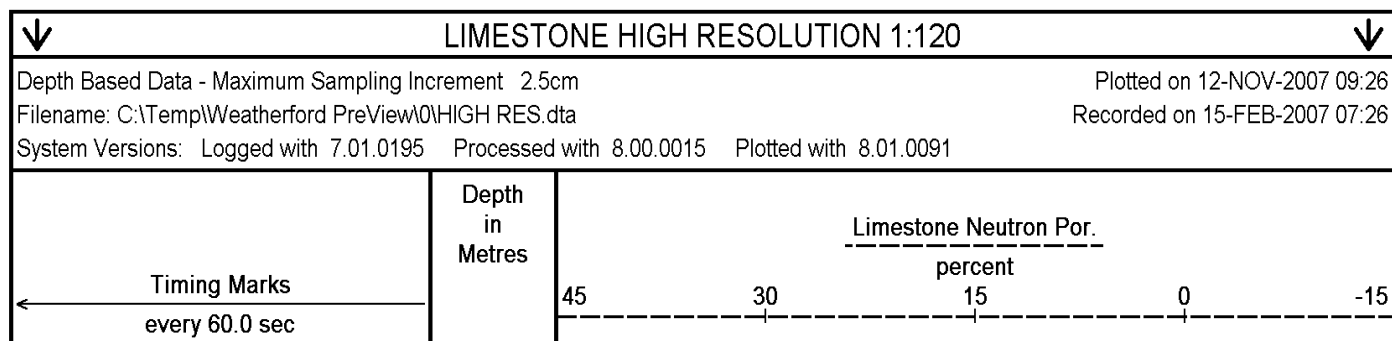
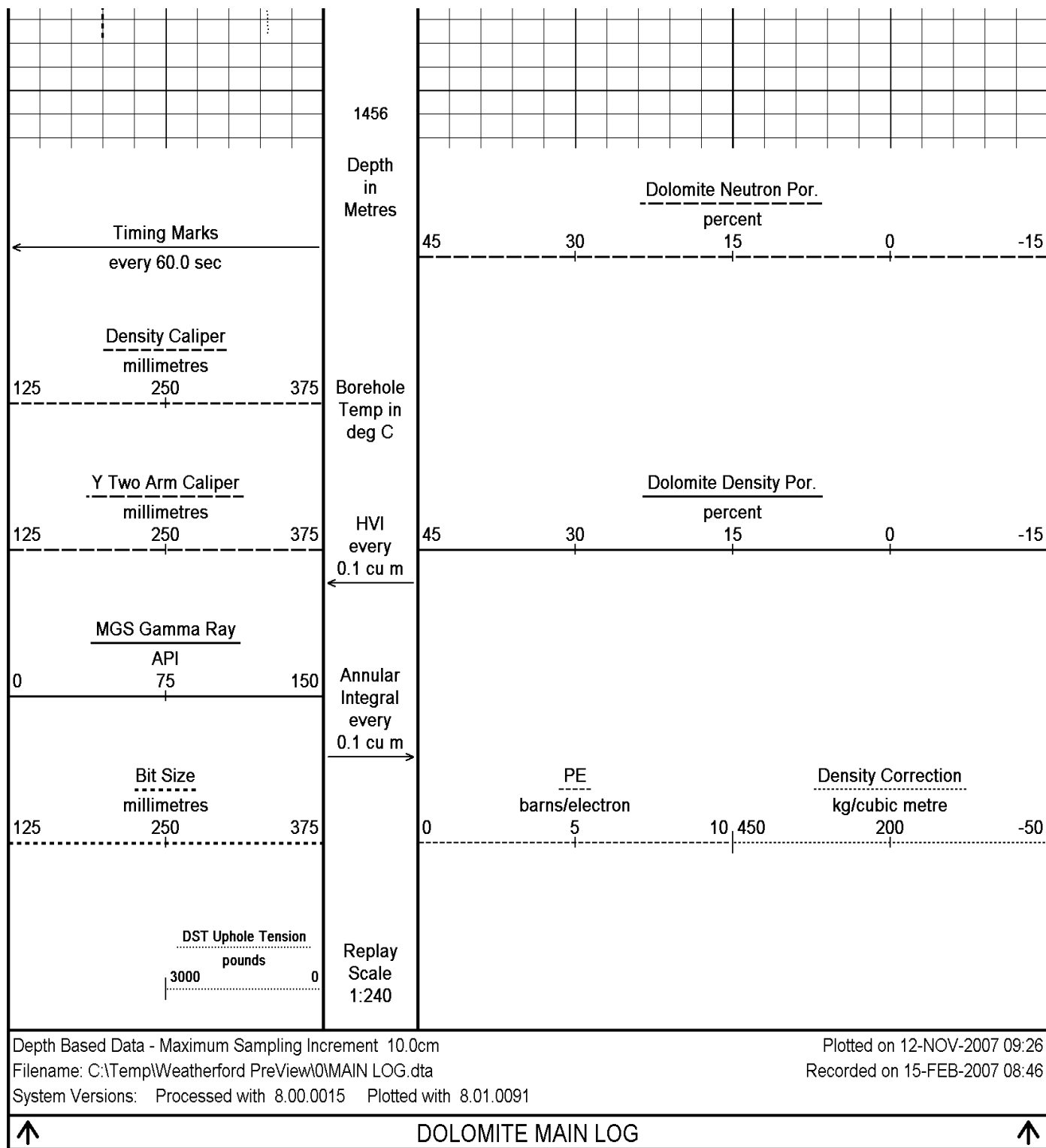


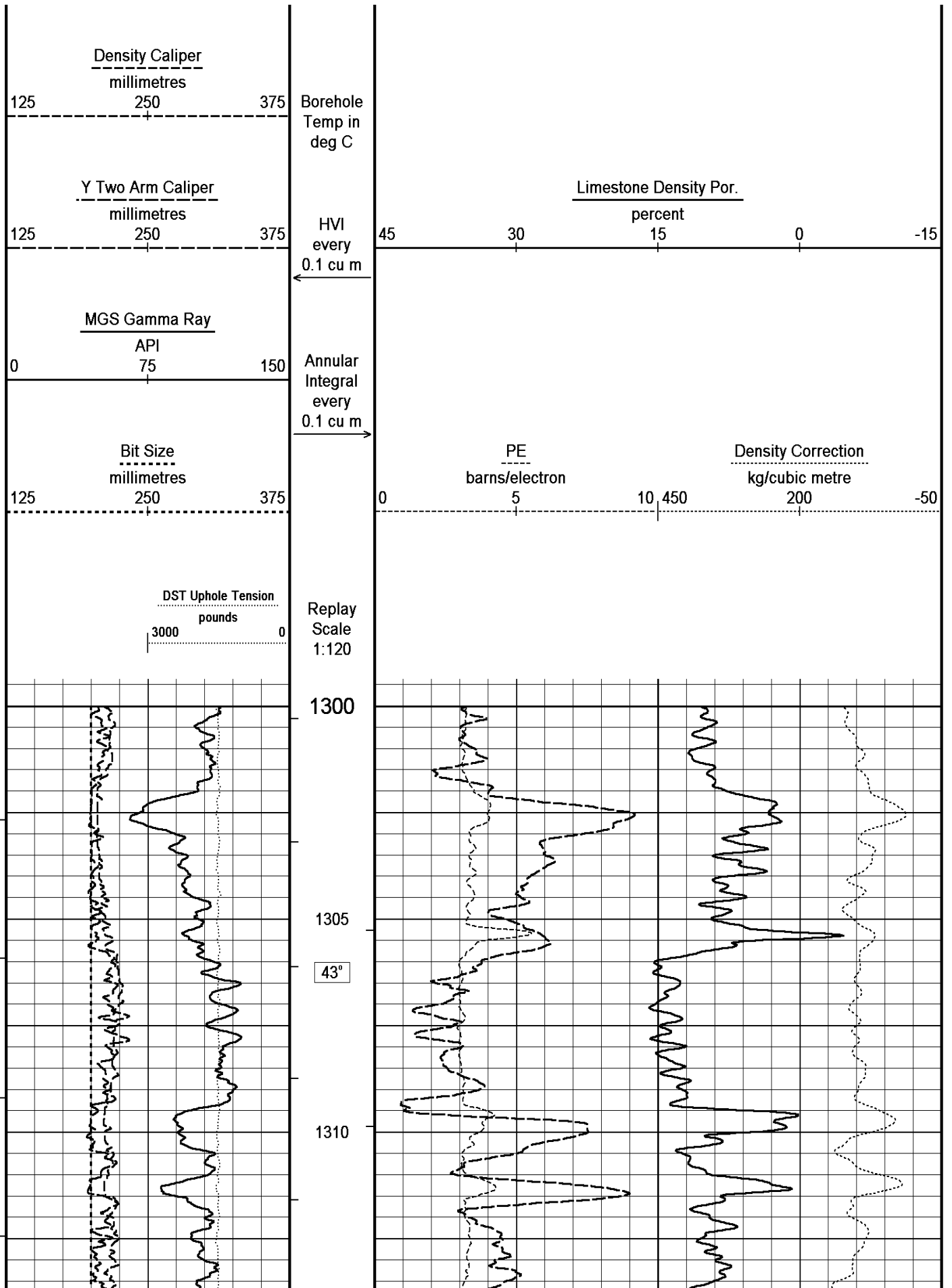


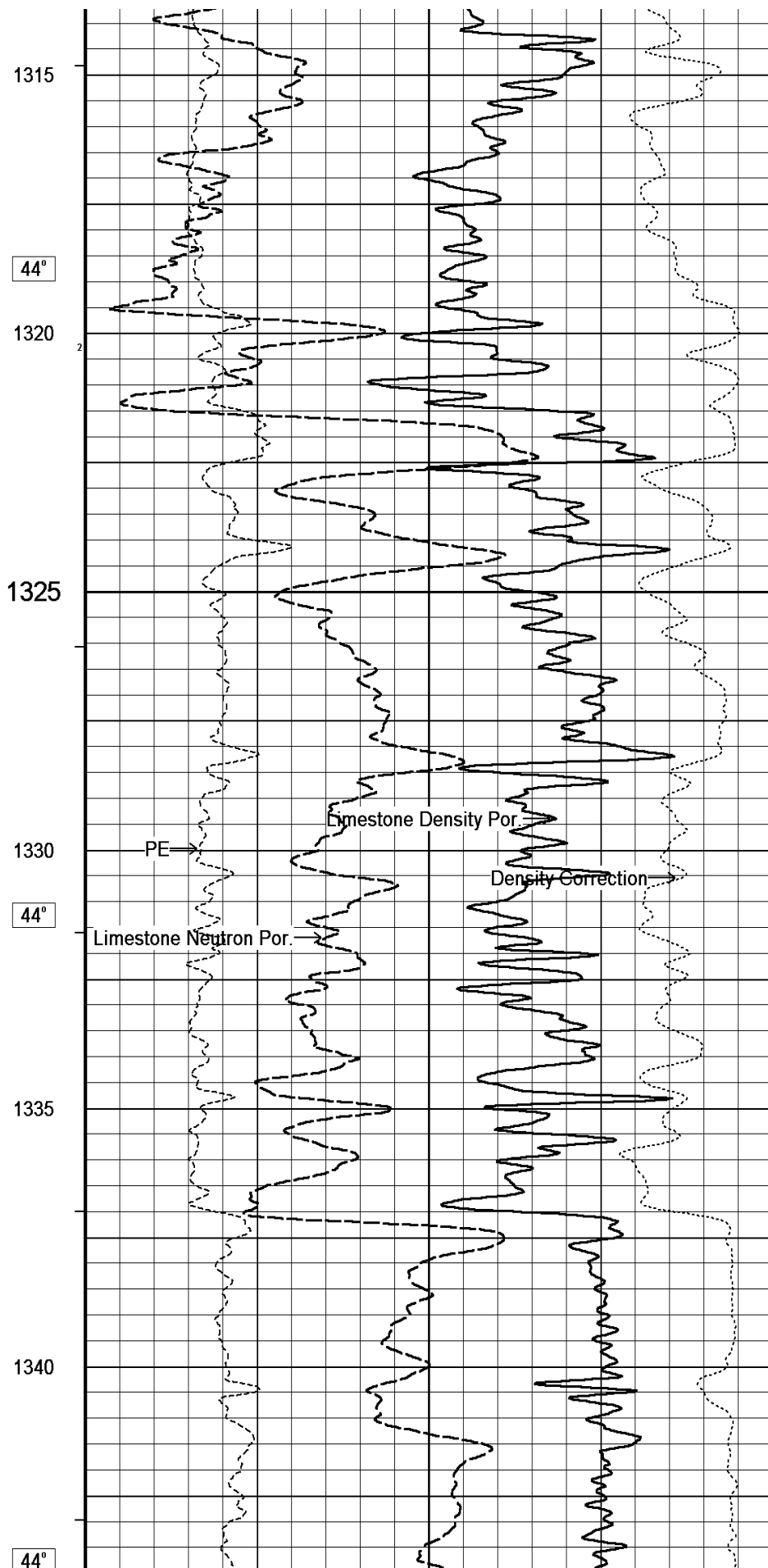
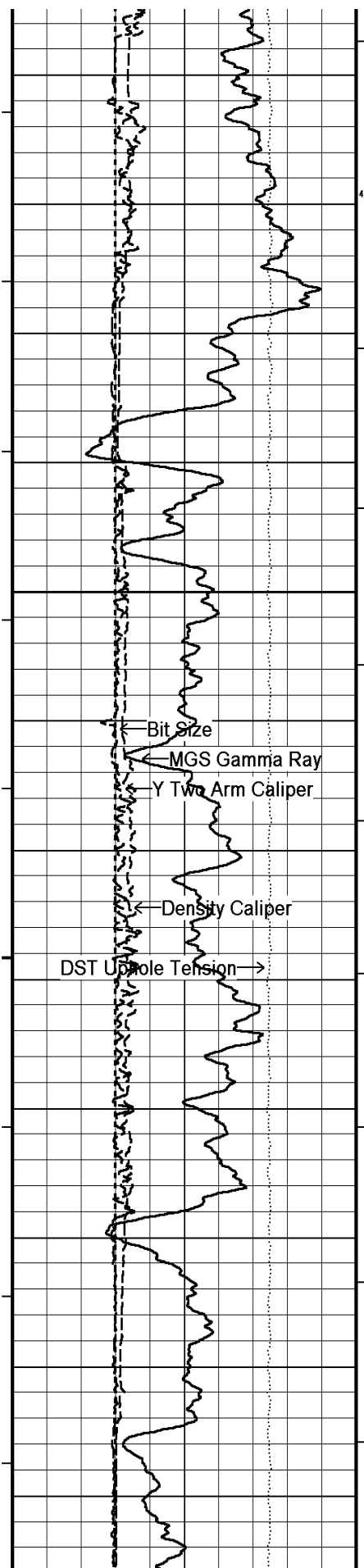


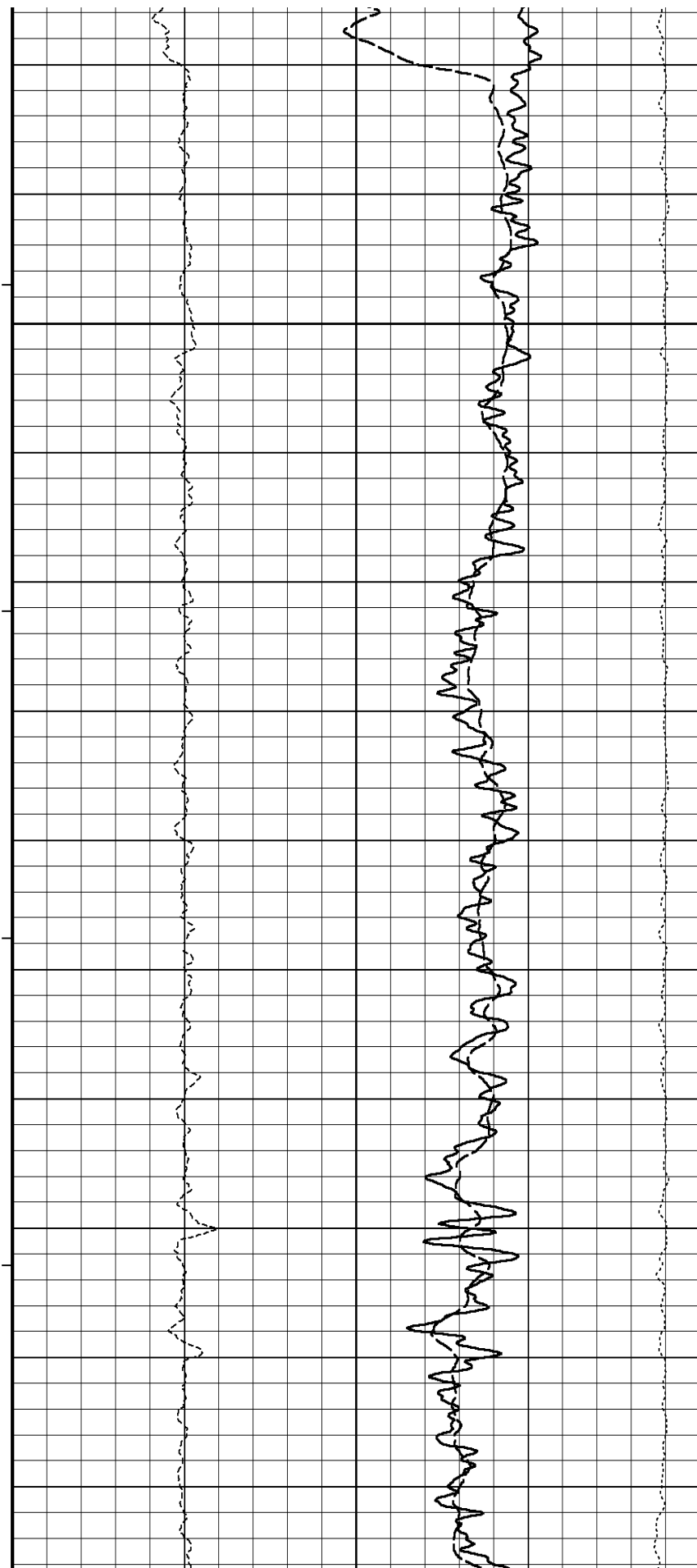
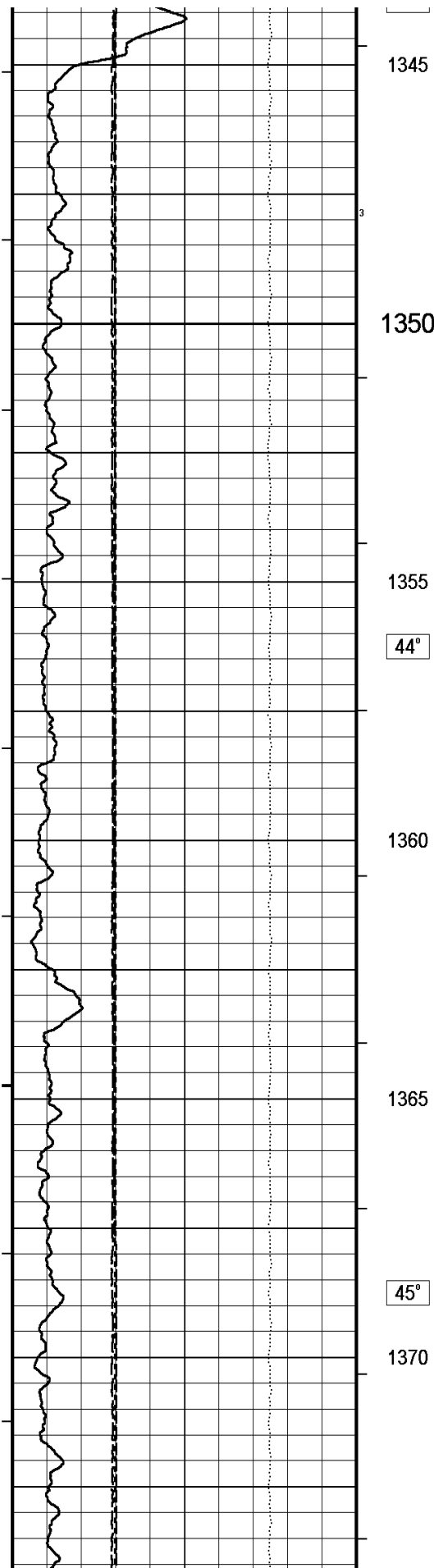


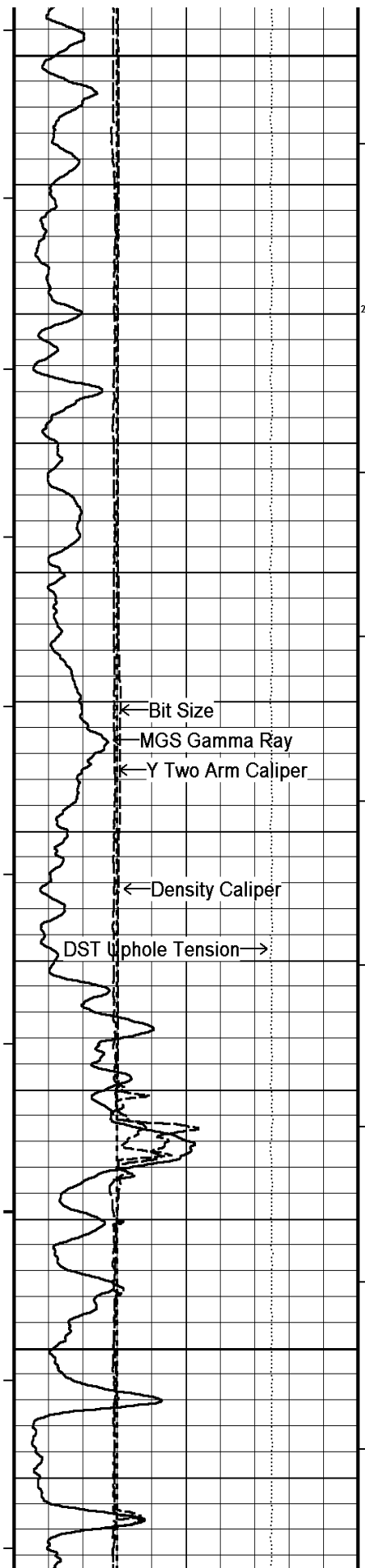












1375

1380

44°

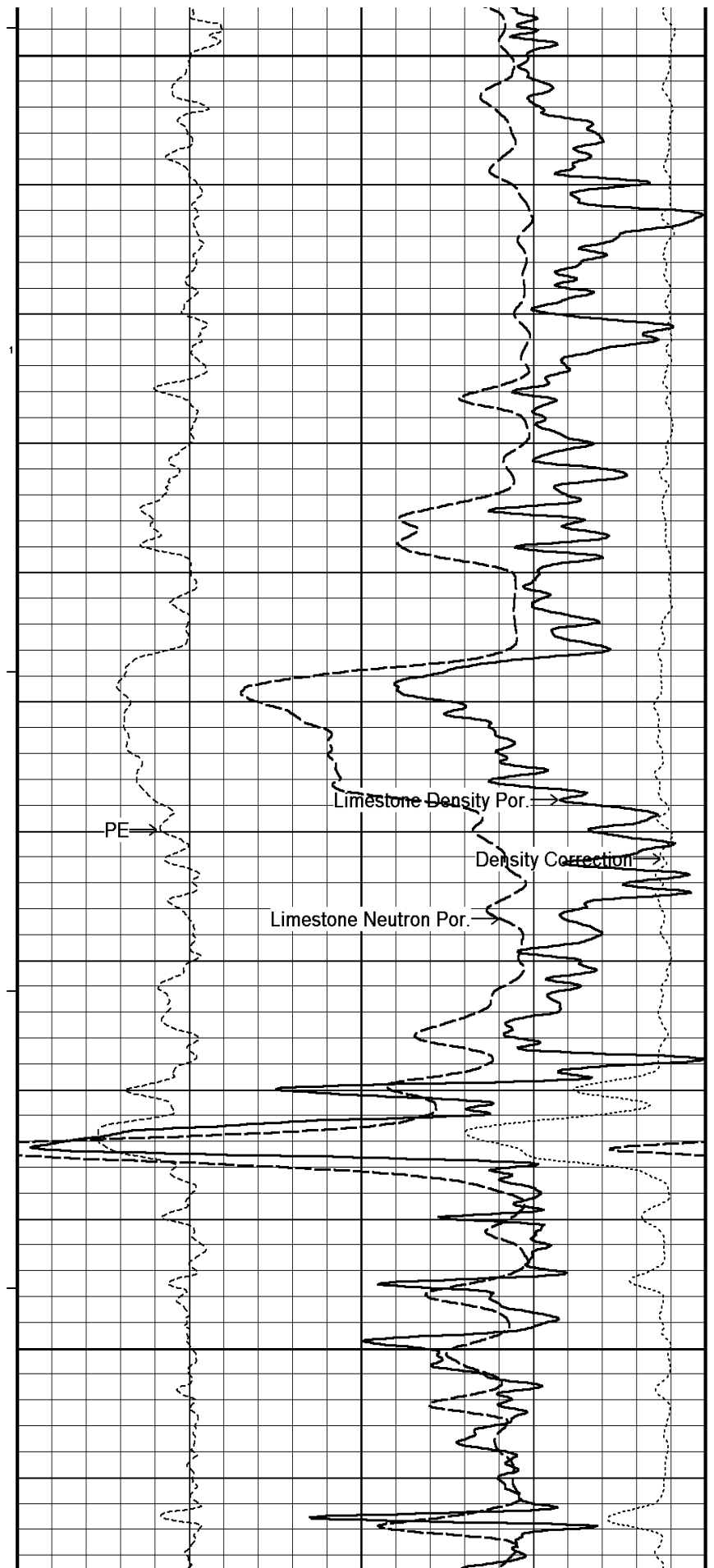
1385

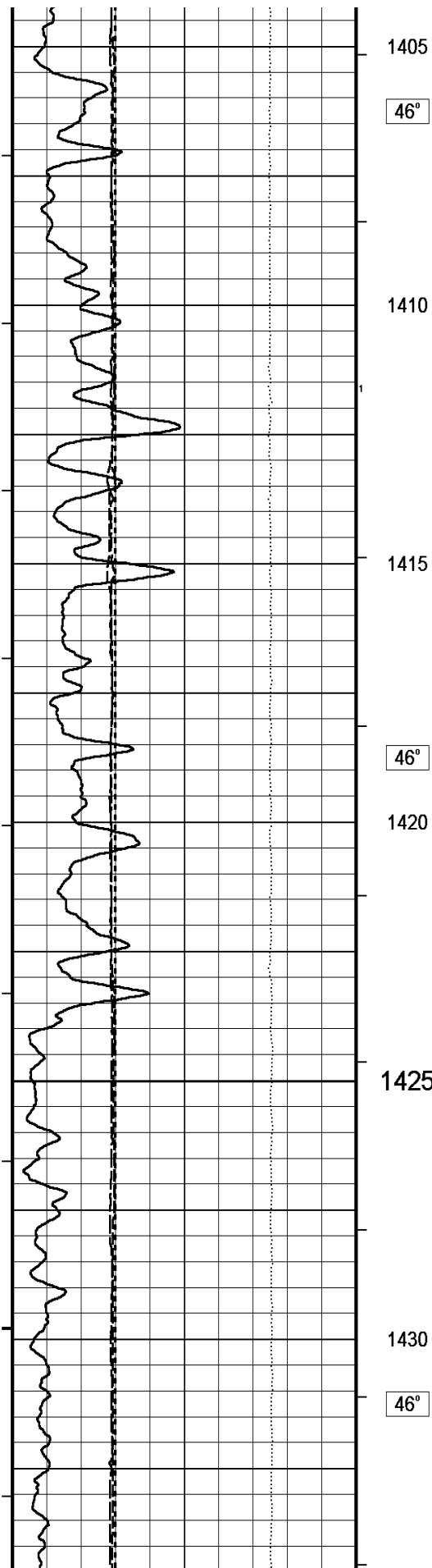
1390

45°

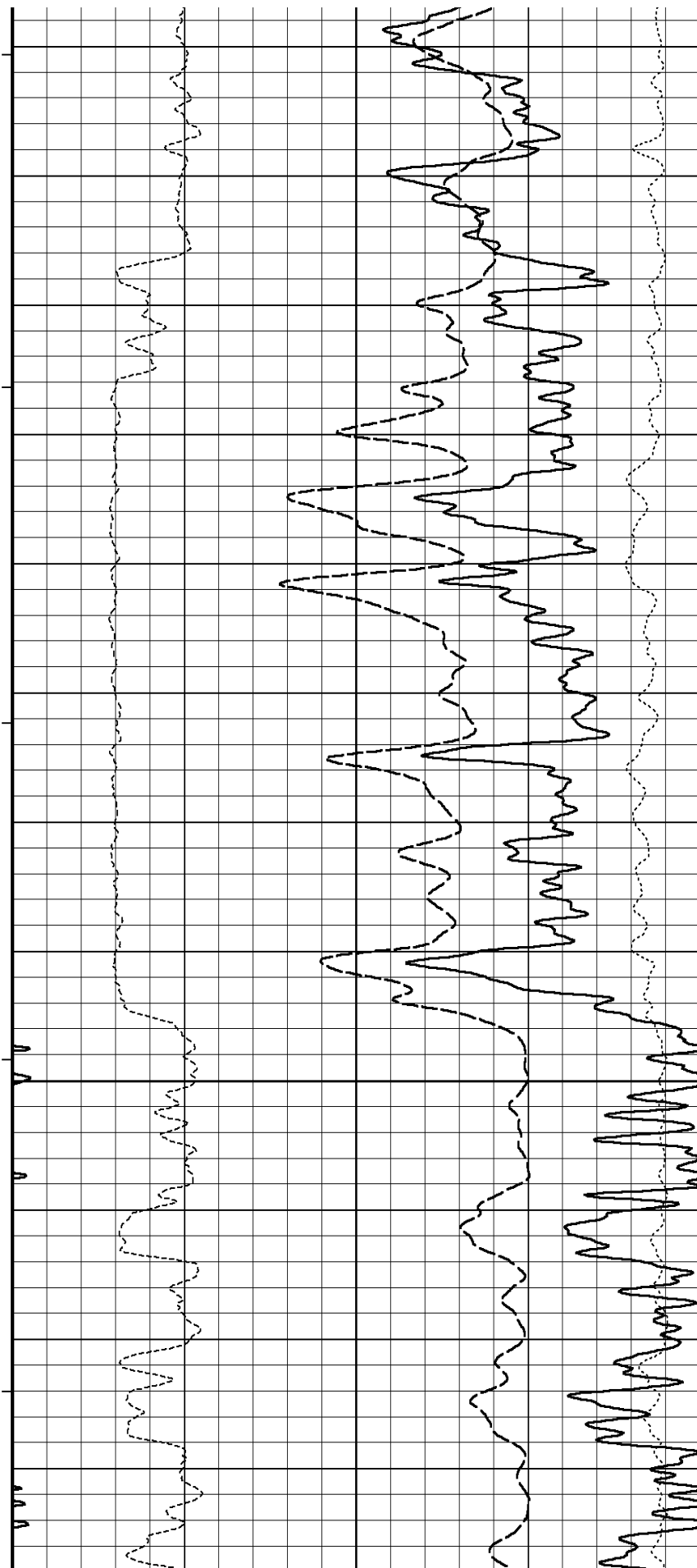
1395

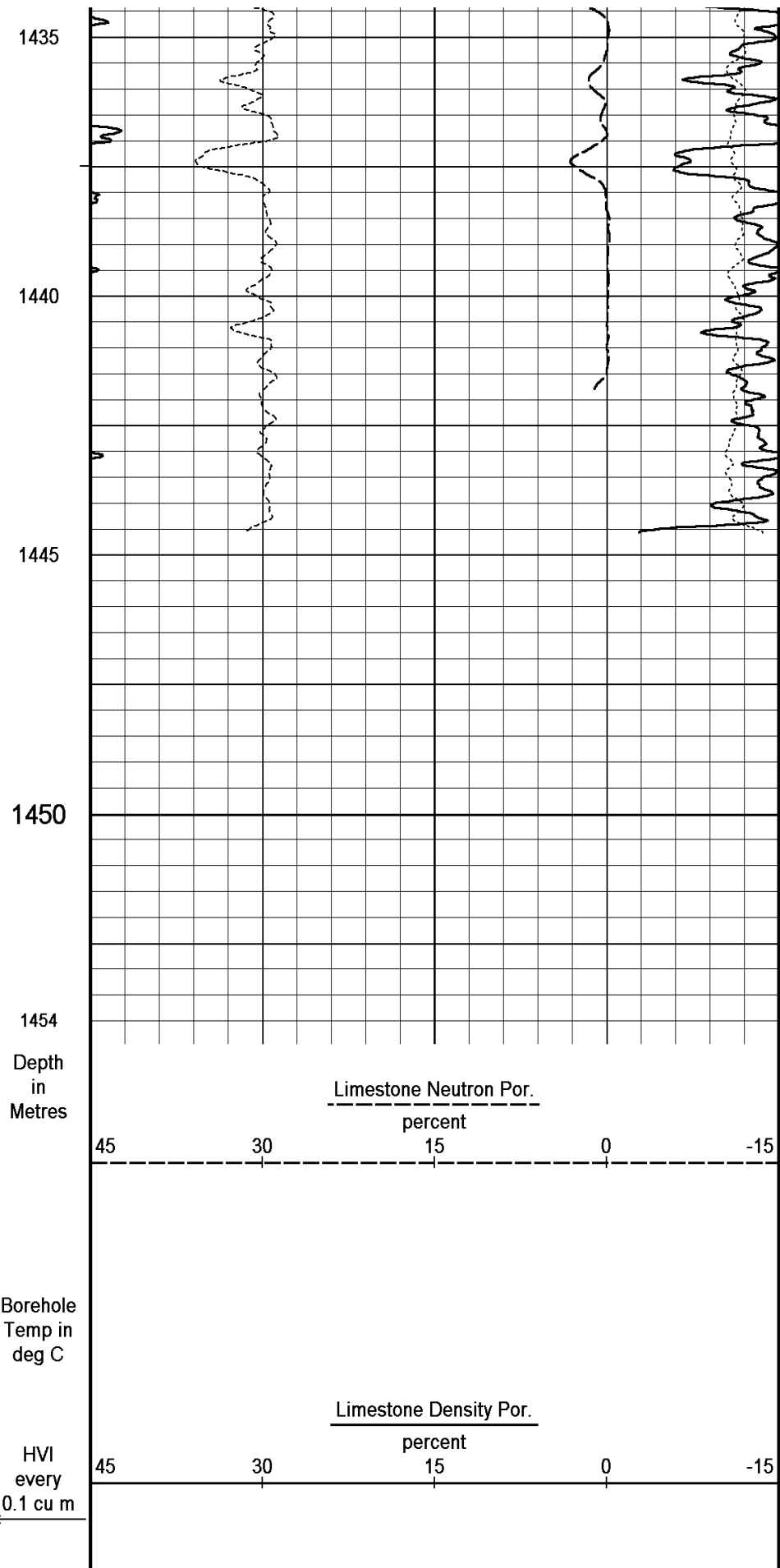
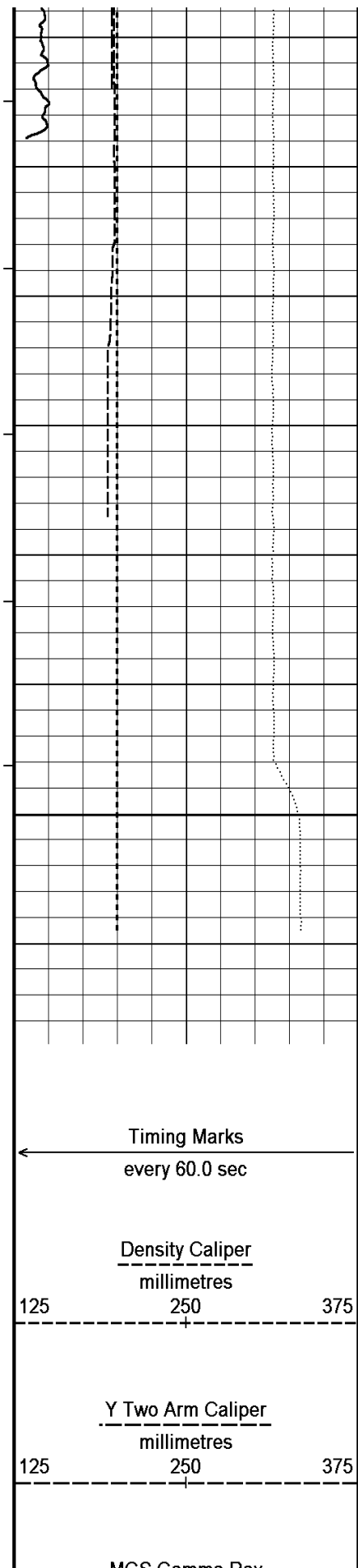
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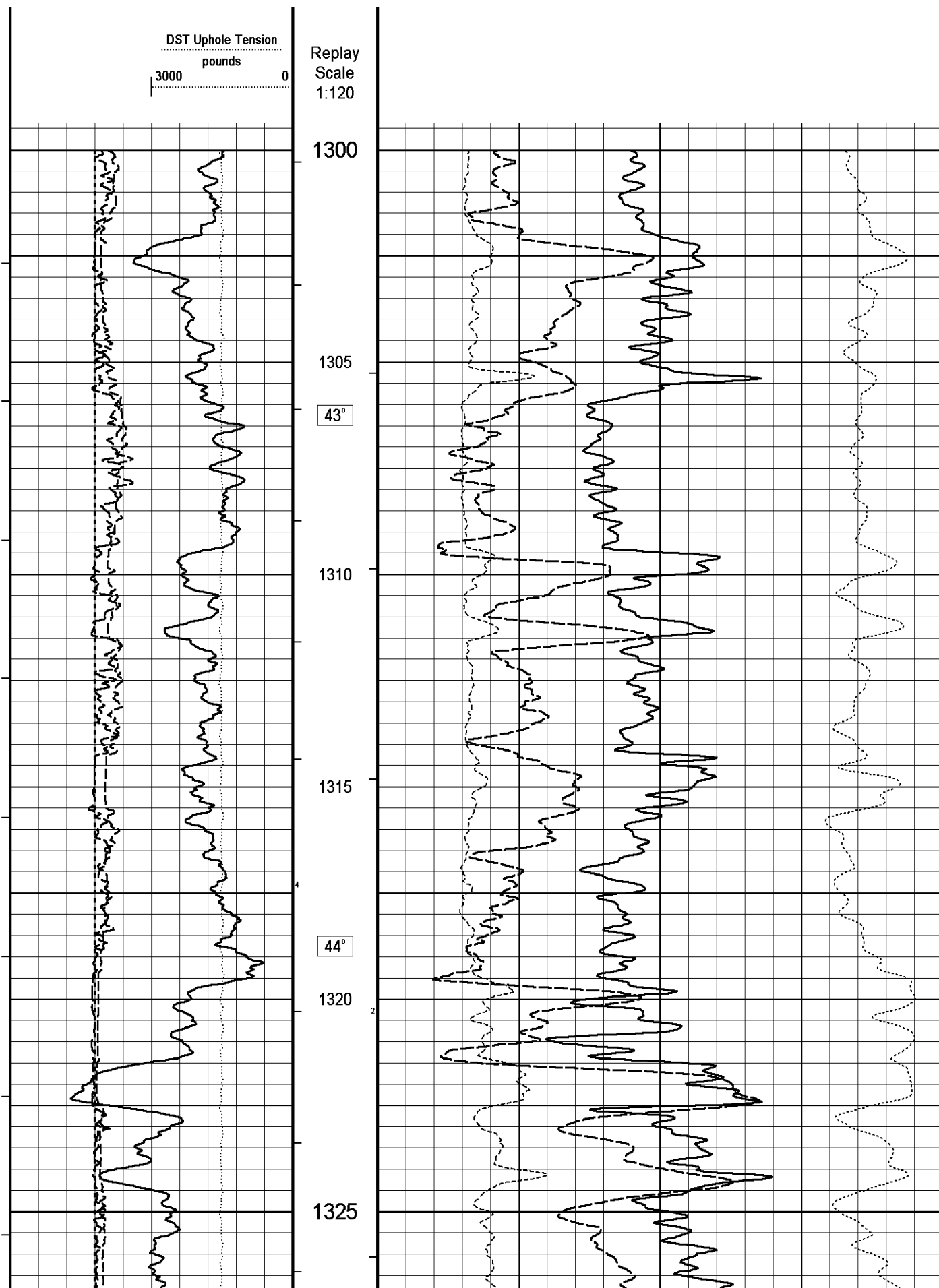


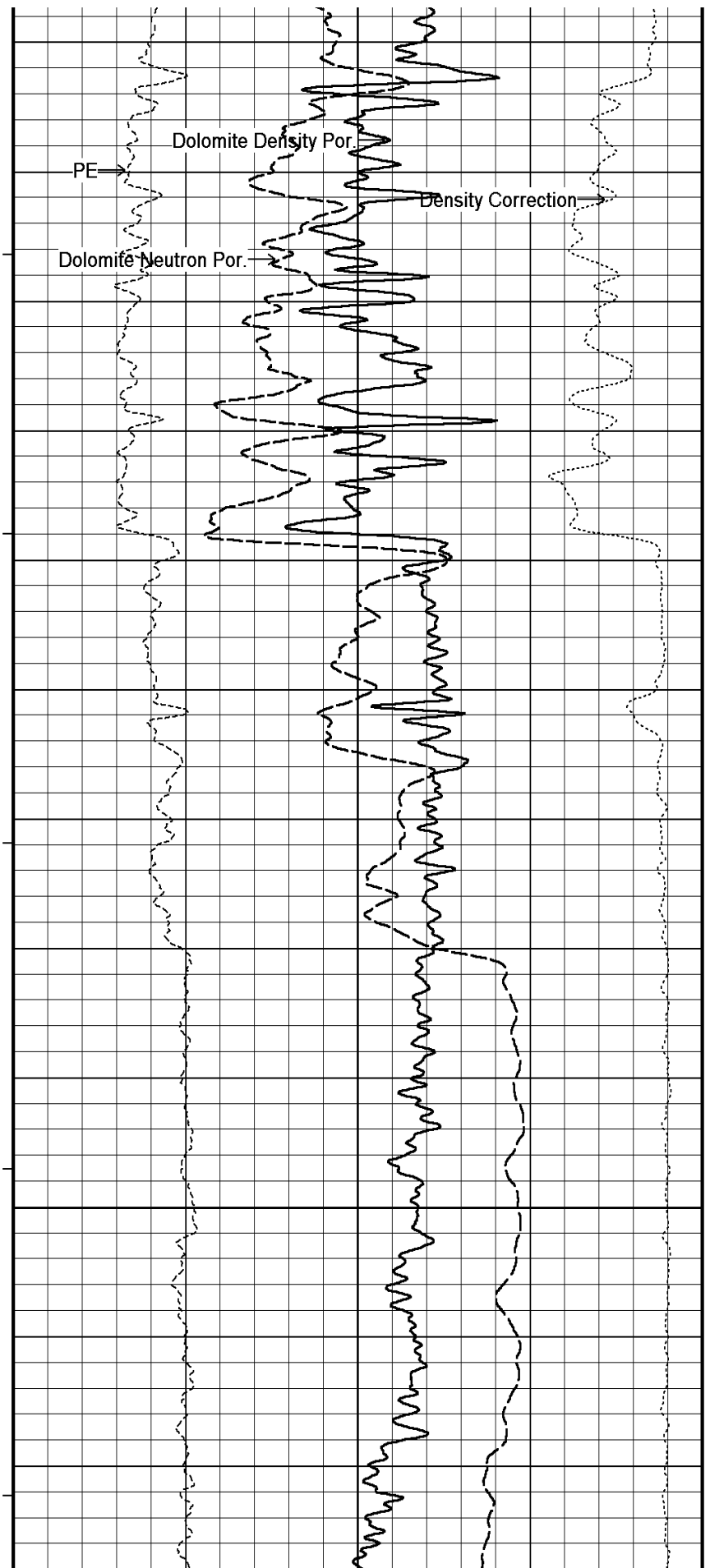
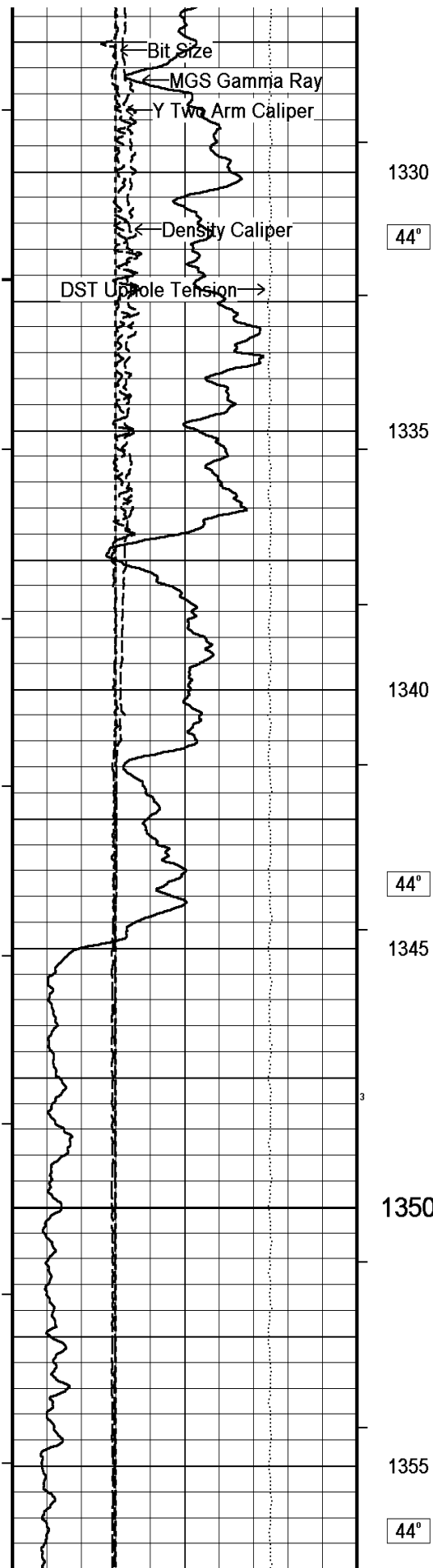


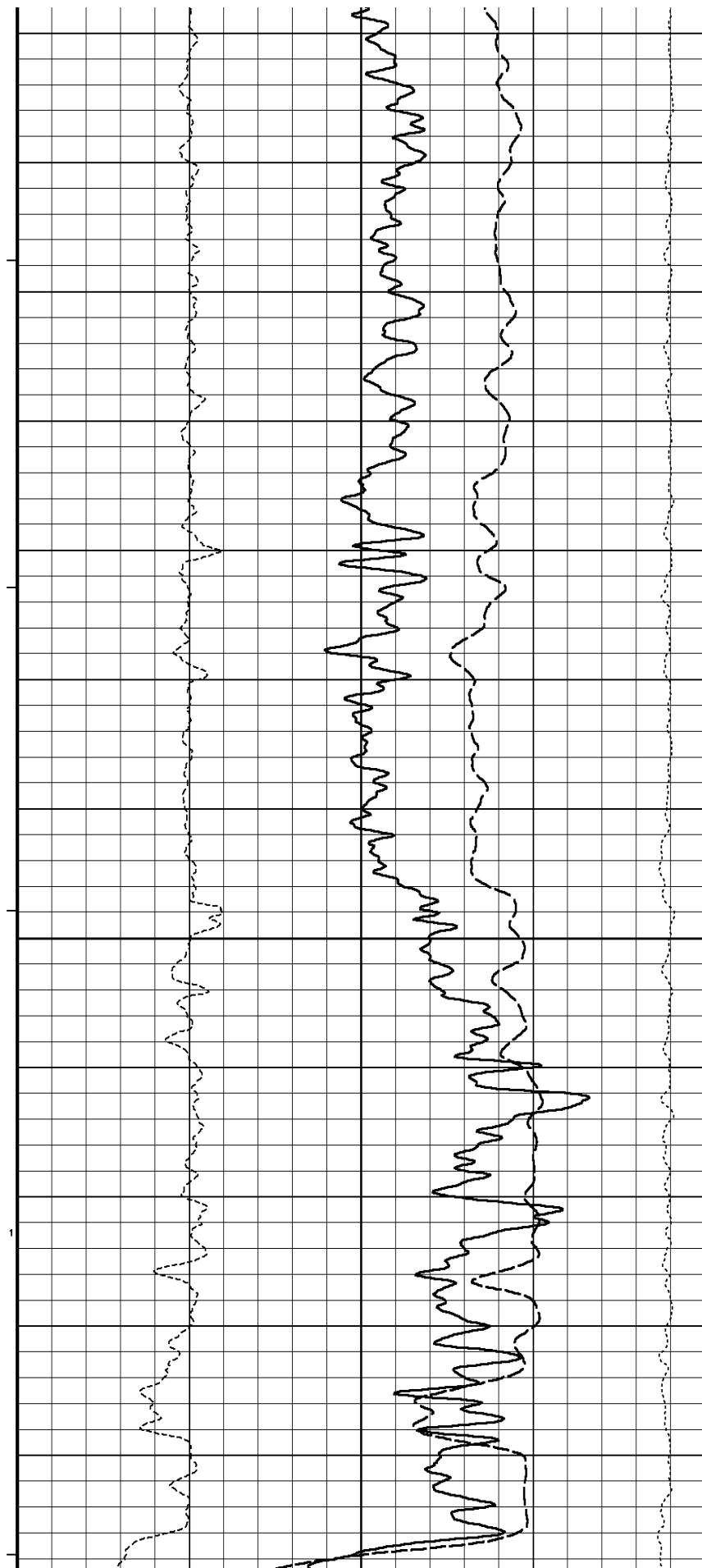
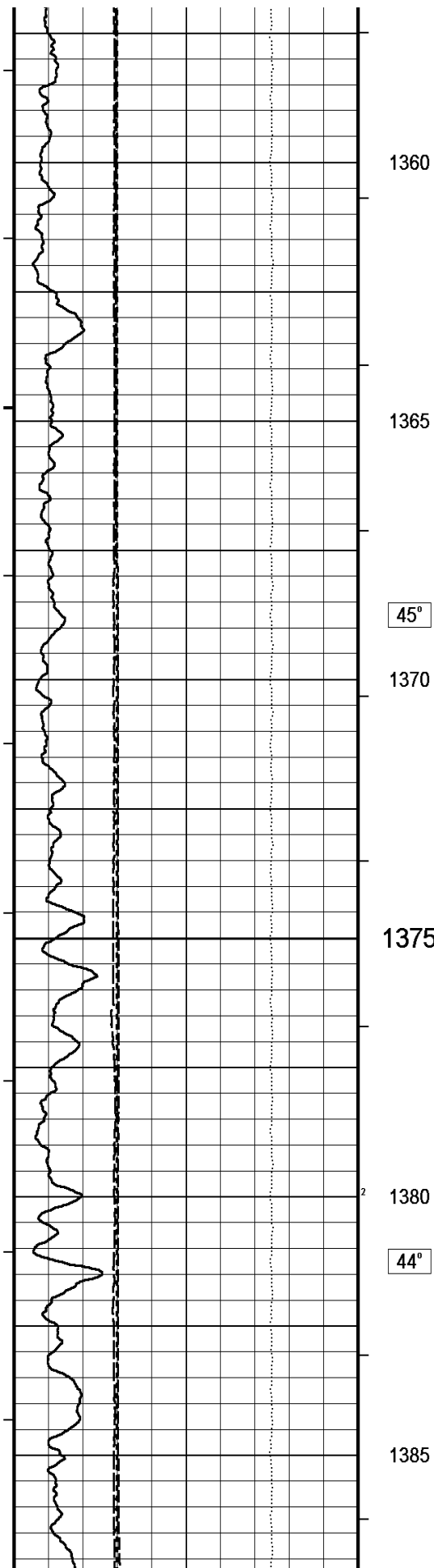
1405
 46°
1410
1415
 46°
1420
1425
1430
 46°

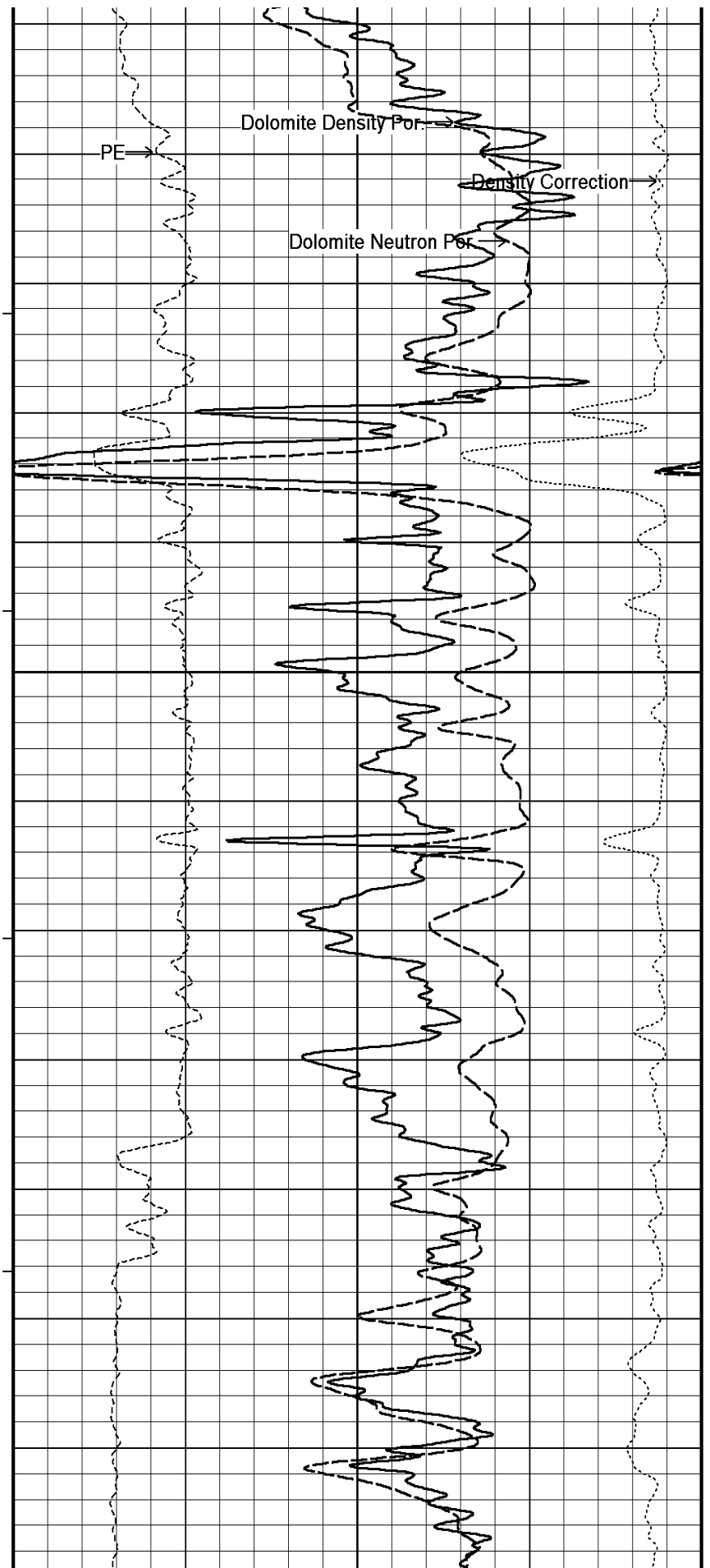
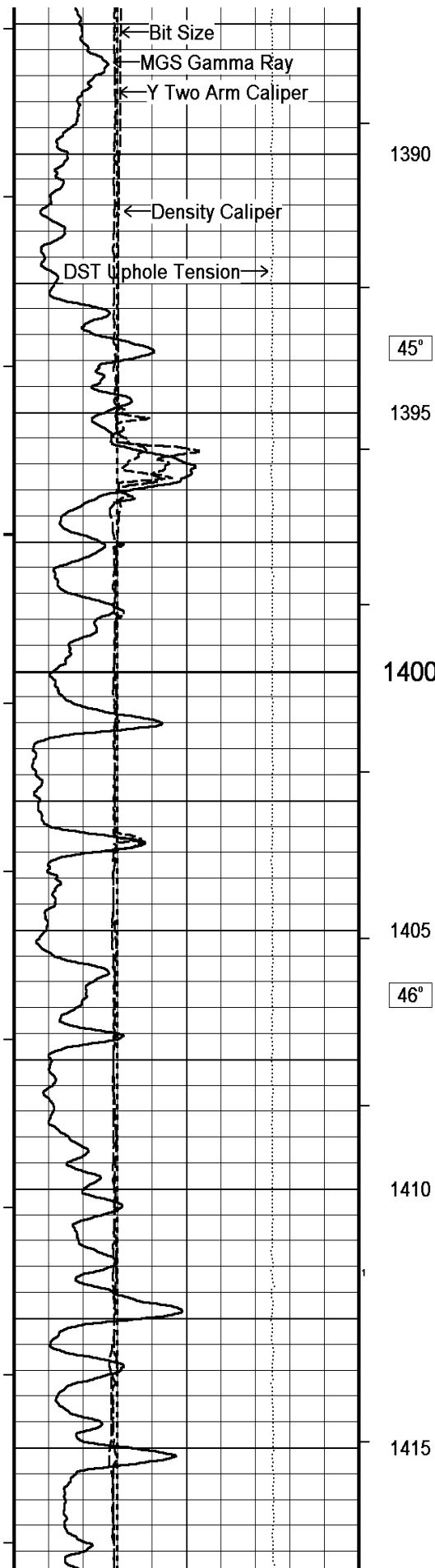


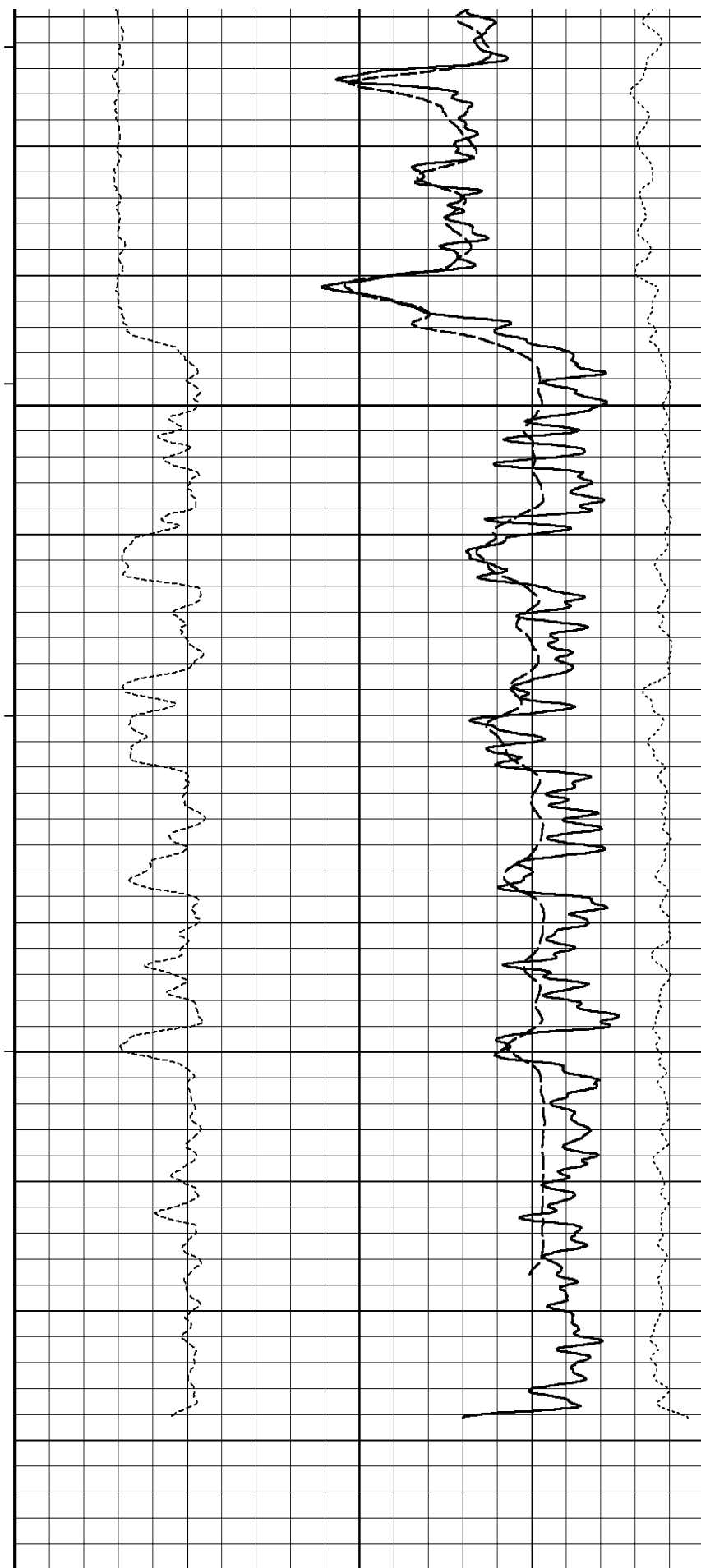
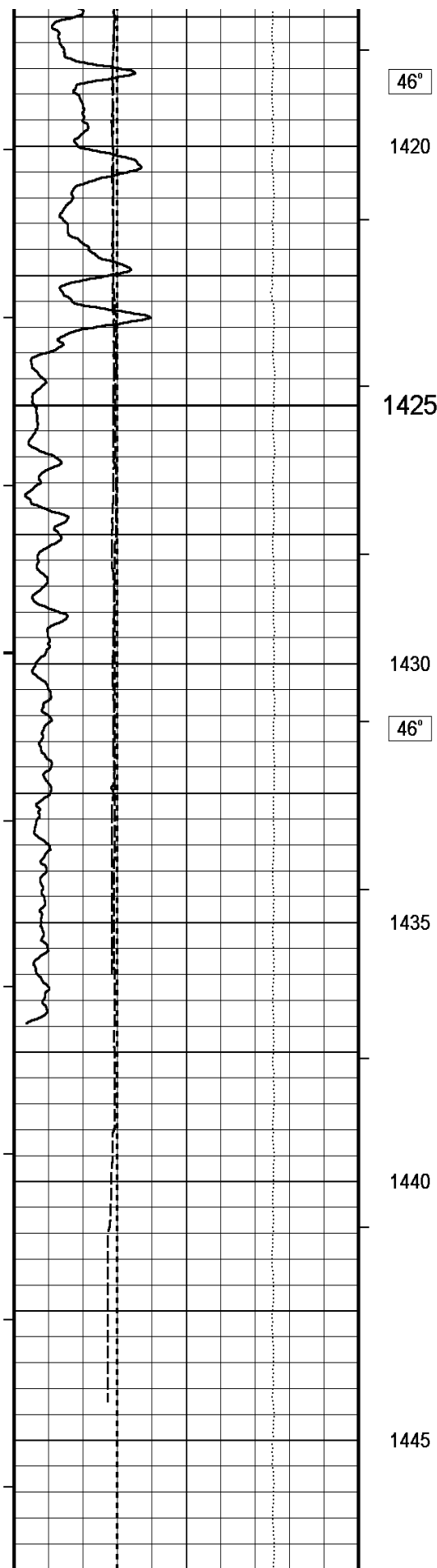


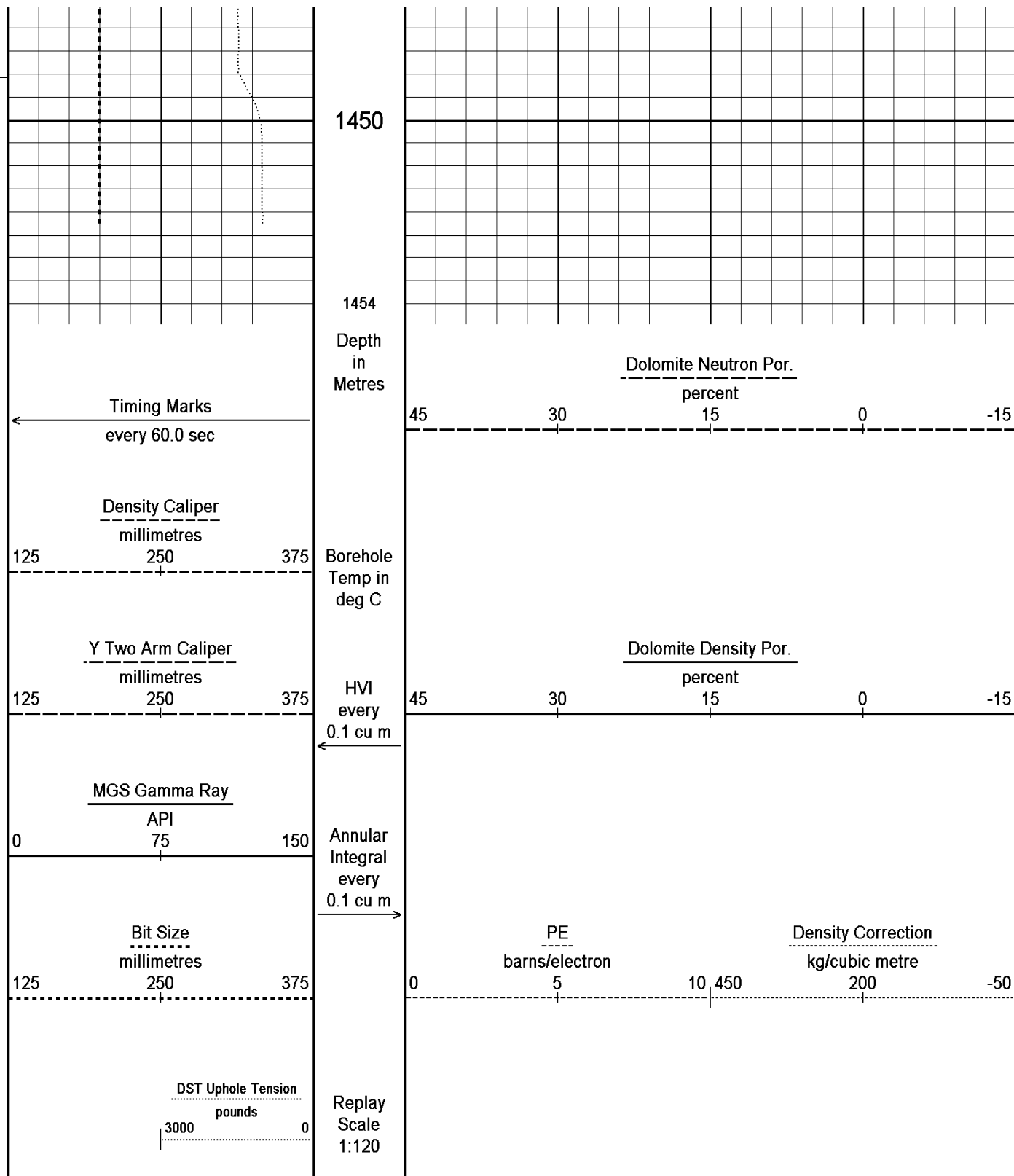












Depth Based Data - Maximum Sampling Increment 2.5cm

Filename: C:\Temp\Weatherford PreView\0\HIGH RES.dta

System Versions: Logged with 7.01.0195 Processed with 8.00.0015 Plotted with 8.01.0091

Plotted on 12-NOV-2007 09:26

Recorded on 15-FEB-2007 07:26



DOLOMITE HIGH RESOLUTION 1:120



BEFORE SURVEY CALIBRATION

General Constants All 000

Last Edited on 15-FEB-2007,06:48

General Parameters

Mud Resistivity	1.180	ohm-metres
Mud Resistivity Temperature	25.000	degrees C
Water Level	0.000	metres
Density/Neutron Processing	Wet Hole	

Hole/Annular Volume and Differential Caliper Parameters

HVOL Caliper 1	Density Caliper	
HVOL Caliper 2	Y Two Arm Caliper	
Annular Volume Diameter	139.700	mm
Caliper for Differential Caliper	Density Caliper	

Rwa Parameters

Porosity used	Base Density Porosity	
Resistivity used	Deep Induction	
RWA Constant A	0.610	
RWA Constant M	2.150	

High Resolution Temperature Calibration MCG 159

Field Calibration on 28-NOV-2006,15:40

	Measured	Calibrated(Deg C)
Lower	10.00	10.00
Upper	50.00	50.00

High Resolution Temperature Constants MCG 159

Last Edited on 28-NOV-2006,15:40

Pre-filter Length	11
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Caliper Calibration MTC 006

Base Calibration on 25-JAN-2007,18:14

Field Calibration on 10-FEB-2007,20:21

Base Calibration

Reading No	Measured	Calibrator Size (mm)
1	14734	110.00
2	17539	162.00
3	20248	212.00
4	22990	262.00
5	25897	311.00
6	N/A	N/A

Field Calibration

Measured Caliper (mm)	Actual Caliper (mm)
208.70	205.70

Gamma Calibration MGS 010

Field Calibration on 7-FEB-2007,09:09

	Measured	Calibrated (API)
Background	48	31
Calibrator (Gross)	1256	825
Calibrator (Net)	1208	794

Gamma Constants MGS 010

Last Edited on 15-FEB-2007,06:48

Gamma Calibrator Number	grcc075	
Mud Density	1060.00	kg/m3
Caliper Source for Processing	Density Caliper	
Tool Position	Centred	
Concentration of KCl	0.00	kppm

Neutron Calibration MDN 144

Base Calibration on 25-JAN-2007 18:05

Field Check on 15-FEB-2007 05:21

Base Calibration

Measured	Calibrated (cps)
----------	------------------

	near	far	near	far
	2967	93	3714	110
Ratio	31.886		33.764	
Field Calibrator at Base	Calibrated (cps)			
	2065		2999	
Ratio	0.689			
Field Check	Calibrated (cps)			
	2094		3091	
Ratio	0.677			
Neutron Constants MDN 144				Last Edited on 18-JAN-2007,02:18
Neutron Source Id	16145b			
Neutron Jig Number				
Epithermal Neutron	No			
Caliper Source for Processing	Density Caliper			
Stand-off	0.00		mm	
Mud Density	1000.00		kg/m3	
Limestone Sigma	7.10		cu	
Sandstone Sigma	4.26		cu	
Dolomite Sigma	4.70		cu	
Formation Pressure Source	Constant Value			
Formation Pressure	0.00		kPa	
Temperature Source	MCG External Temperature			
Temperature	20.00		degrees C	
Mud Salinity	0.00		kppm	
Formation Fluid Salinity Source	Constant Value			
Formation Fluid Salinity	0.00		kppm	
Barite Mud Correction	Not Applied			
Photo Density Calibration MPD 036				Base Calibration on 8-MAR-2007,10:54 Field Check on
Density Calibration				
Base Calibration	Measured		Calibrated (sdu)	
	Near	Far	Near	Far
Reference 1	52802	28585	60352	31615
Reference 2	21780	2767	25043	2540
Field Check at Base	1184.8		1494.9	
Field Check	0.0		0.0	
PE Calibration				
Base Calibration	Measured		Calibrated	
	WS	WH	Ratio	Ratio
Background	213	1052		
Reference 1	22151	53000	0.422	0.400
Reference 2	5909	20800	0.288	0.272
Field Check at Base	213.1		1051.7	
Field Check	0.0		0.0	
Density Constants MPD 036				Last Edited on 15-FEB-2007,04:55
Density Source Id	2834GW			
Nylon Calibrator Number	608			
Aluminium/Fe Calibrator Number	608			
Density Shoe Profile	4 inch			

Caliper Source for Processing	Density Caliper	
PE Correction to Density	Not Applied	
Mud Density	1000.00	kg/m3
Mud Density Z/A Correction	1.11	
Mud Filtrate Density	1000.00	kg/m3
Dry Hole Mud Filtrate Density	1000.00	kg/m3
DNCT	0.00	kg/m3
CRCT	0.00	kg/m3
Density Z/A Correction	Advanced	
Matrix Density (kg/m3)	Depth (m)	
2710.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	
Caliper Calibration MPD 036		
Base Calibration		Base Calibration on 23-JAN-2007 04:20
		Field Calibration on 7-FEB-2007,11:28
Reading No	Measured	Calibrator Size (mm)
1	18576	110.00
2	28032	162.00
3	37841	212.00
4	48080	262.00
5	57920	311.00
6	N/A	N/A
Field Calibration		
	Measured Caliper (mm)	Actual Caliper (mm)
	166.10	166.10

DOWNHOLE EQUIPMENT			C:\Temp\Weatherford PreView\0\REPEAT.dta	
Compact Gamma MCG 159 Length: 2.65 m	Weight: 63.9 lb		20.78 m	GRGC - Gamma Ray
			19.90 m	CGXT - MCG External Temperature
Compact Focused Electric MFE 17 Length: 1.84 m	Weight: 48.5 lb		18.79 m	FEFE - Shallow FE
Compact Two Arm Caliper MTC 6 Length: 2.17 m	Weight: 61.7 lb		16.33 m	CLYC - Y Two Arm Caliper

Compact Short Gamma
MGS 10 Length: 1.04 m Weight: 24.3 lb

Compact InterSonde Crank
ISC 159 Length: 0.70 m Weight: 24.3 lb

Compact Micro-log
MML 15 Length: 2.43 m Weight: 81.6 lb

Compact Neutron
MDN 144 Length: 1.53 m Weight: 50.7 lb

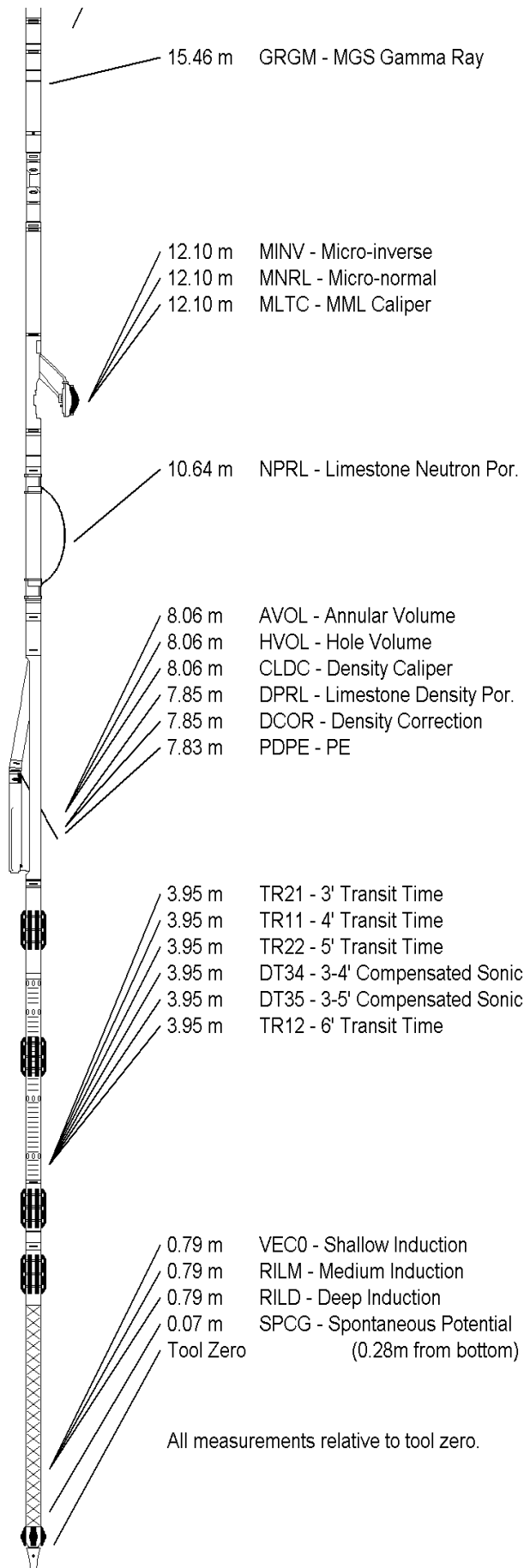
Compact Density/Caliper
MPD 36 Length: 2.92 m Weight: 90.4 lb

Compact Sonic
MSS 60 Length: 3.82 m Weight: 72.8 lb

Compact Induction
MAI 72 Length: 3.29 m Weight: 48.5 lb

Compact Hole Finder
HFS 1 Length: 0.24 m Weight: 2.2 lb

Total Length: 22.63 m Weight: 568.8 lb



COMPANY	PARAMOUNT RESOURCES LTD.
WELL	PARAMOUNT ET AL CAMERON J-04
FIELD	CAMERON HILLS
PROVINCE/COUNTY	NORTH WEST TERRITORIES
COUNTRY/STATE	CANADA

Elevation Kelly Bushing	769.20	metres	First Reading	1441.60	metre
Elevation Drill Floor		metres	Depth Driller	1449.00	metres
Elevation Ground Level	765.20	metres	Depth Logger	1449.50	metres



Weatherford®

PHOTO DENSITY
DUAL SPACED NEUTRON



PHOTO DENSITY DUAL SPACED NEUTRON

COMPANY	PARAMOUNT RESOURCES LTD.			
WELL	PARAMOUNT ET AL CAMERON J-04			
FIELD	CAMERON HILLS			
PROVINCE/COUNTY	NORTH WEST TERRITORIES			
COUNTRY/STATE	CANADA			
LOCATION	300/J-04-60-10-117-30 FIELD PRINT			
LSD	SEC	TWP	RGE	Other Services
				ARRAY INDUCTION
API Number				MICROLOG
Permit Number 1159				COMPENSTATED SONIC
Permanent Datum GROUND LEVEL, Elevation 765.20 metres				Elevations: metres
Log Measured From 4.00 M above Permanent Datum				KB 769.20
Drilling Measured From KB				DF
				GL 765.20
Date	15-FEB-2007			
Run Number	1			
Depth Driller	1449.00	metres		
Depth Logger	1449.50	metres		
First Reading	1441.60	metre		
Last Reading	0.00	metre		
Casing Driller	430.00	metres		
Casing Logger	429.80	metres		
Bit Size	200.00	mm		
Hole Fluid Type	GELCHEM			
Density / Viscosity	1060.0 kg/M3	93.00 CP		
PH / Fluid Loss	11.00	11.00 ml/30Min		
Sample Source	FLOWLINE			
Rm @ Measured Temp	1.18 @ 25.0	ohm-m		
Rmf @ Measured Temp	1.04 @ 25.0	ohm-m		
Rmc @ Measured Temp	1.32 @ 25.0	ohm-m		
Source Rmf / Rmc	PRESS	FILTER		
Rm @ BHT	0.78 @ 48.0	ohm-m		
Time Since Circulation	6 HRS			
Max Recorded Temp	48.00	deg C		
Equipment Name	COMPACT			
Equipment / Base	13124	GPR		
Recorded By	G. SINGER			
Witnessed By	A. AHMED			
CIRC. STOP TIME	01:30-FEB-15	Last Line		

BOREHOLE RECORD				Last Edited: 15-FEB-2007 05:01
Bit Size millimetres	Depth From metres		Depth To metres	
	311.000	0.00	430.00	
	200.000	430.00	1449.00	
CASING RECORD				
Type	Size millimetres	Depth From metres	Shoe Depth metres	Weight Kg/metre
SURFACE	219.100	0.00	430.00	35.72

REMARKS
1) SOFTWARE ISSUE: WLS 7.01.0195.
2) CUSTOMER SCALES AND LOGGED INTERVALS USED
3) TOOLS RUN: MAI, MSS, MPD, MDN, MML, ISC, MGS, MTC, MFE, MCG RUN IN COMBINATION
4) HARDWARE: MAI: TWO 25.4 MM STANDOFFS MSS: THREE 25.4 MM STANDOFFS MDN: DUAL BOWSPRING AND INTERSONIC CRANK MTC: SIX LEAF CENTRALIZER
5) SERVICE ORDER #: 30073028 SAP #: 4147101 # FIELD PRINTS = 3
6) RIG: PD 129

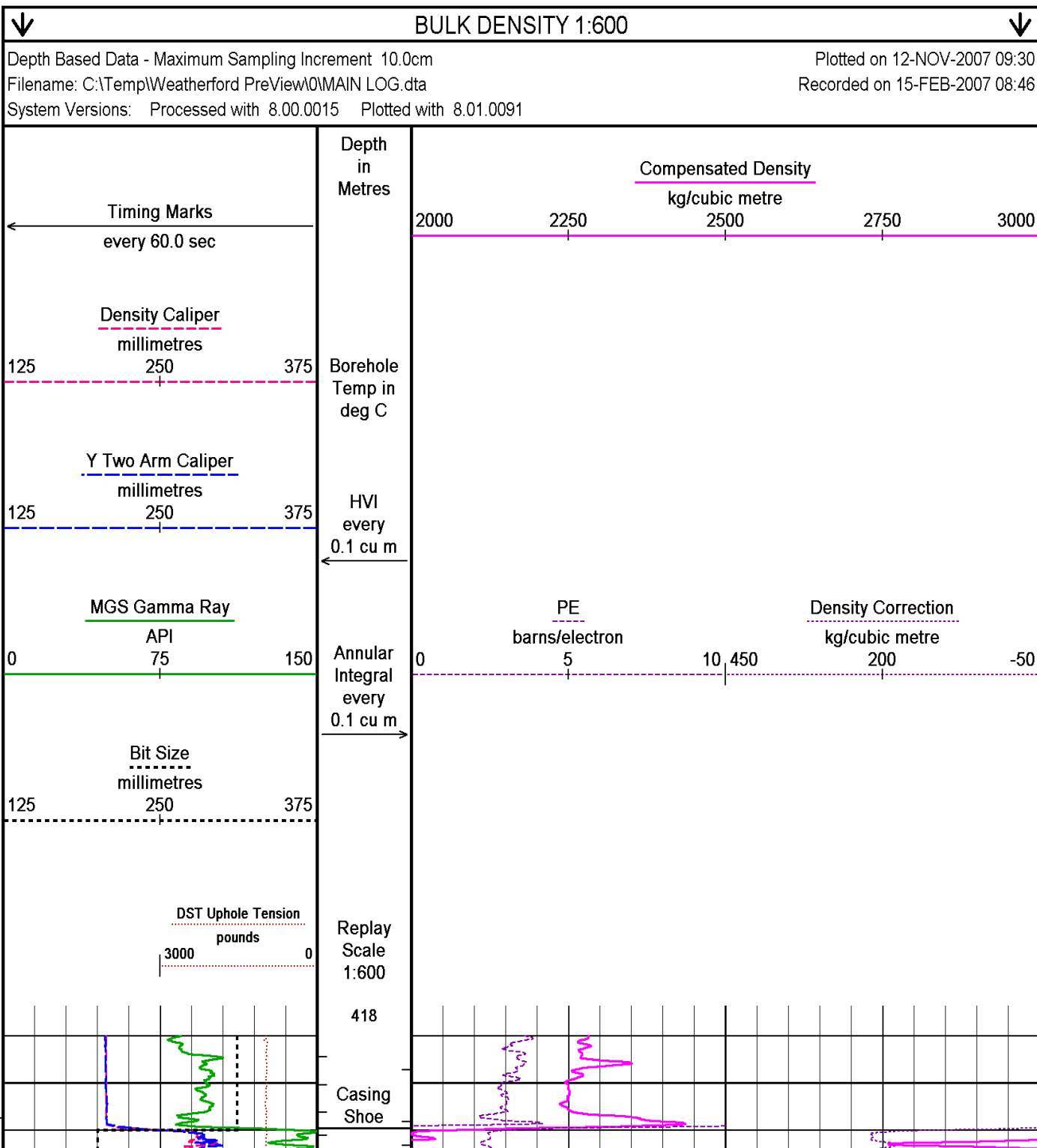
7) HOLE AND CEMENT VOLUMES CALCULATED USING DENSITY AND 2-ARM CALIPERS :

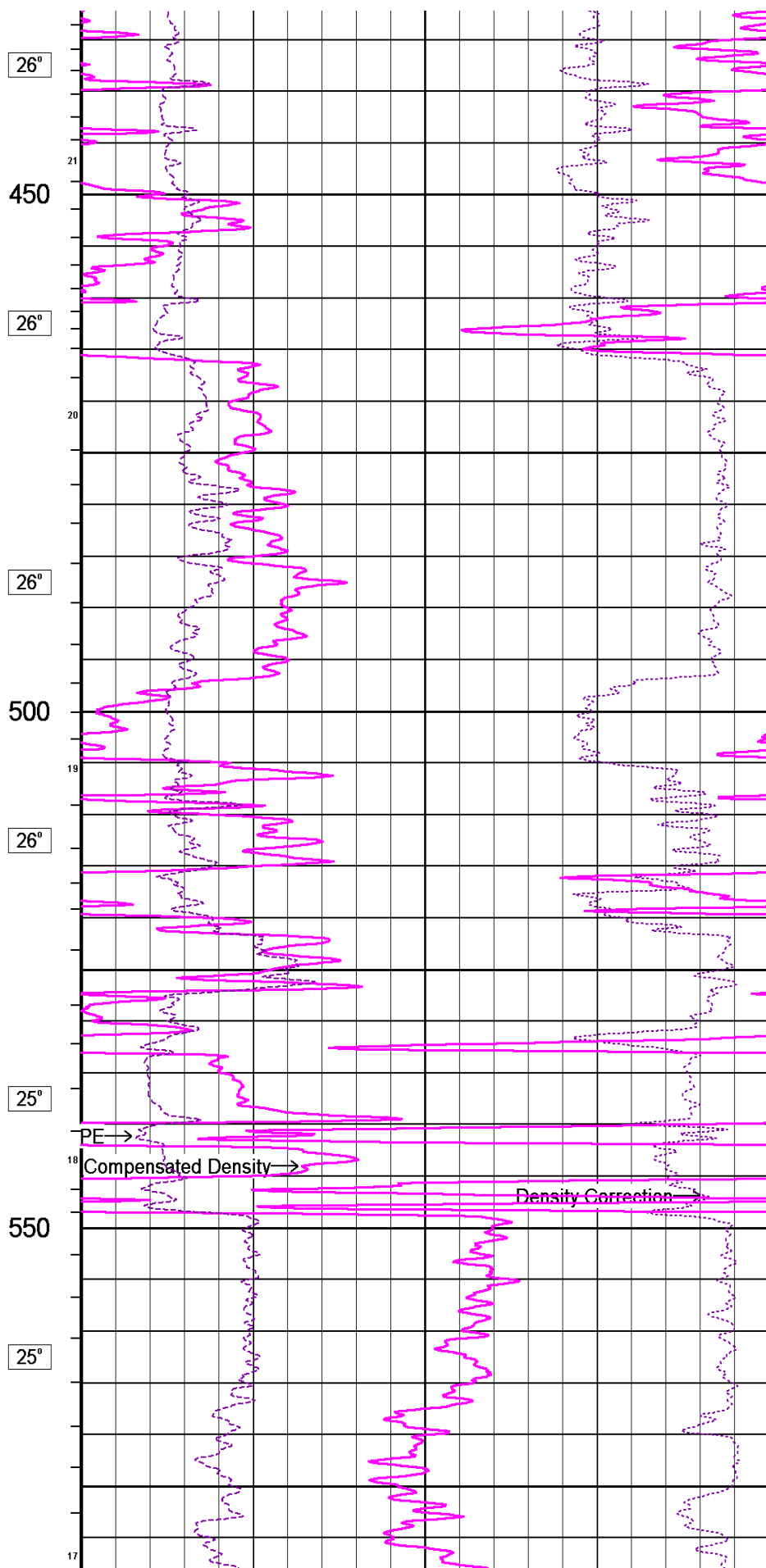
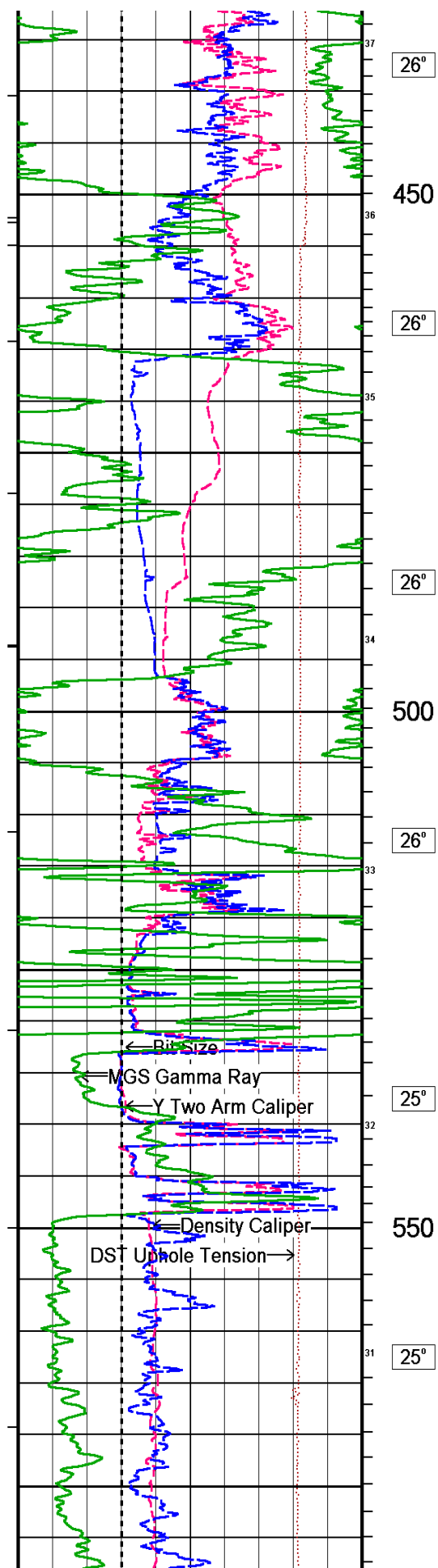
HOLE VOLUME = 37.4 CU.M.

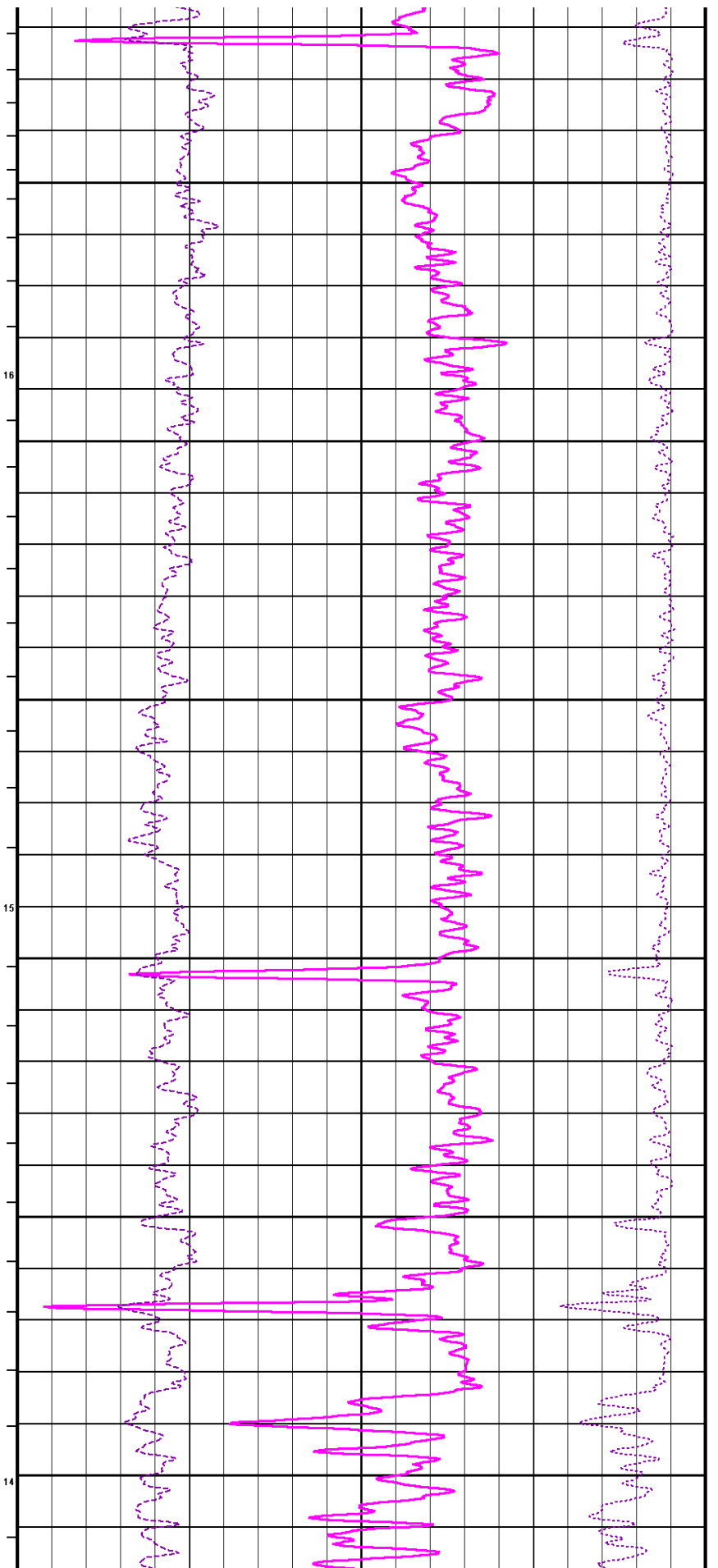
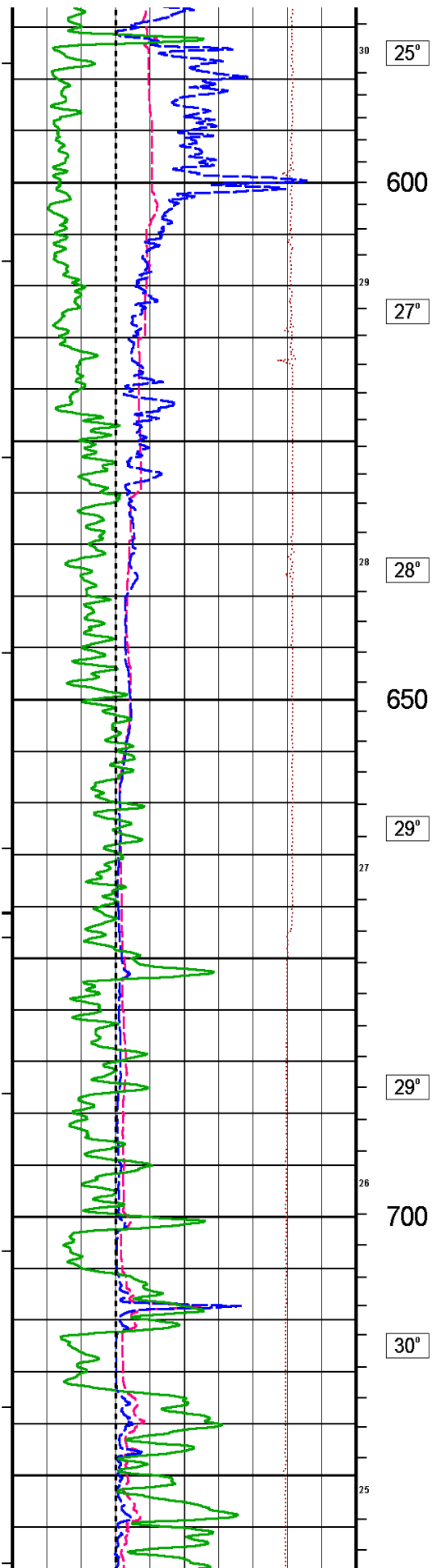
ANNULAR VOLUME USING 139.7 MM PRODUCTION CASING = 21.8 CU.M

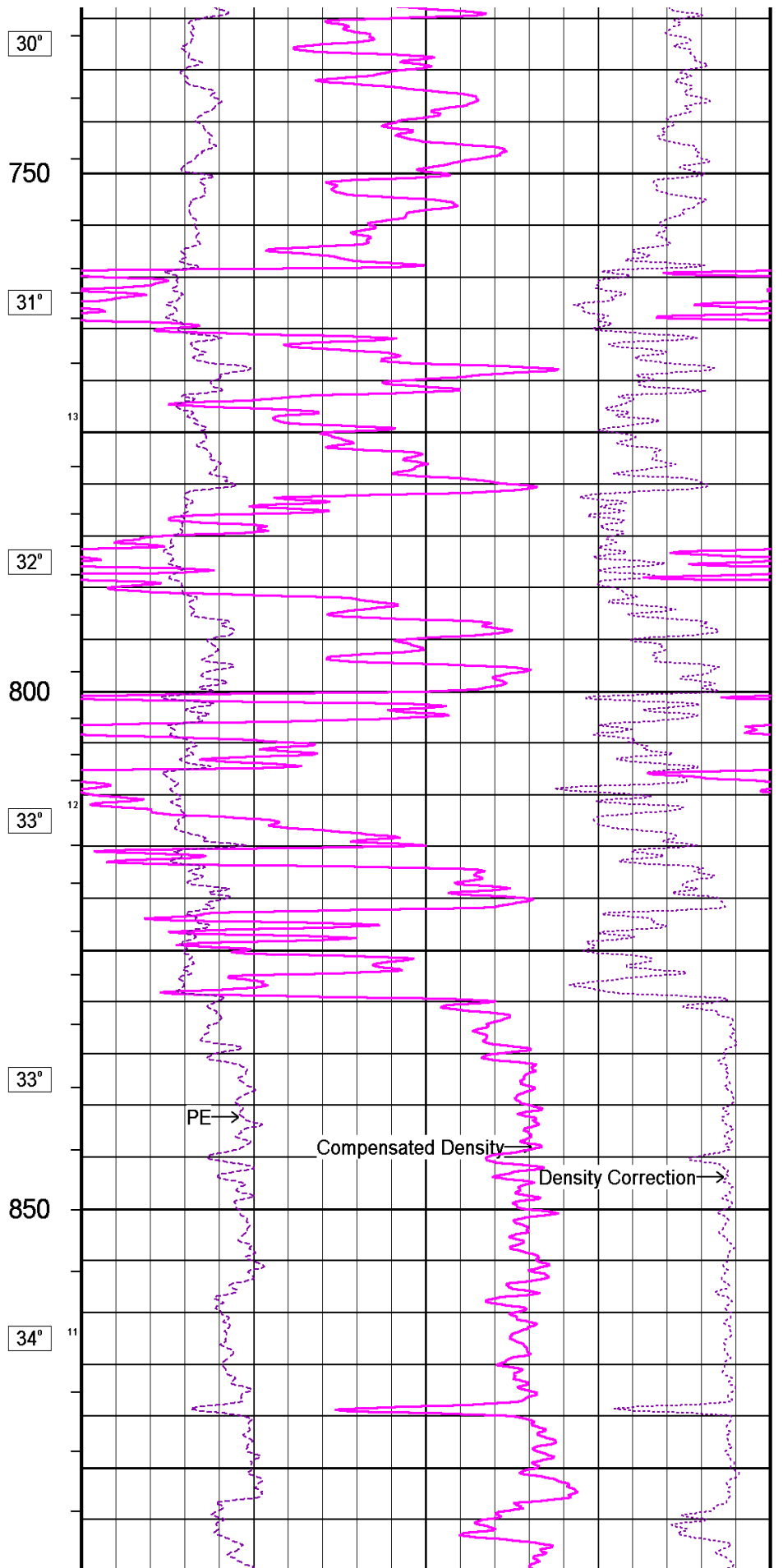
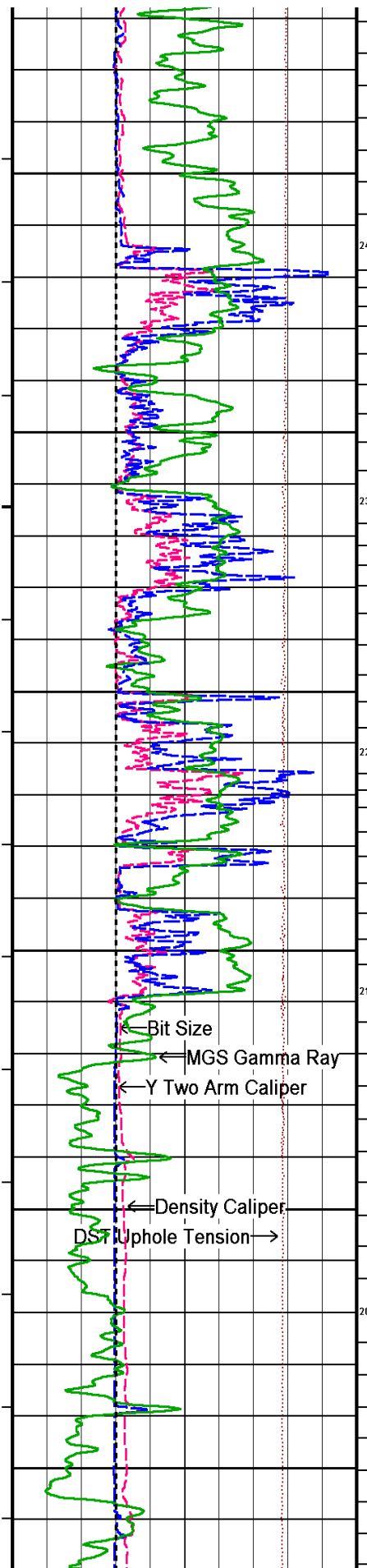
8) SONIC FREE PIPE FOUND FROM 352M - 357M

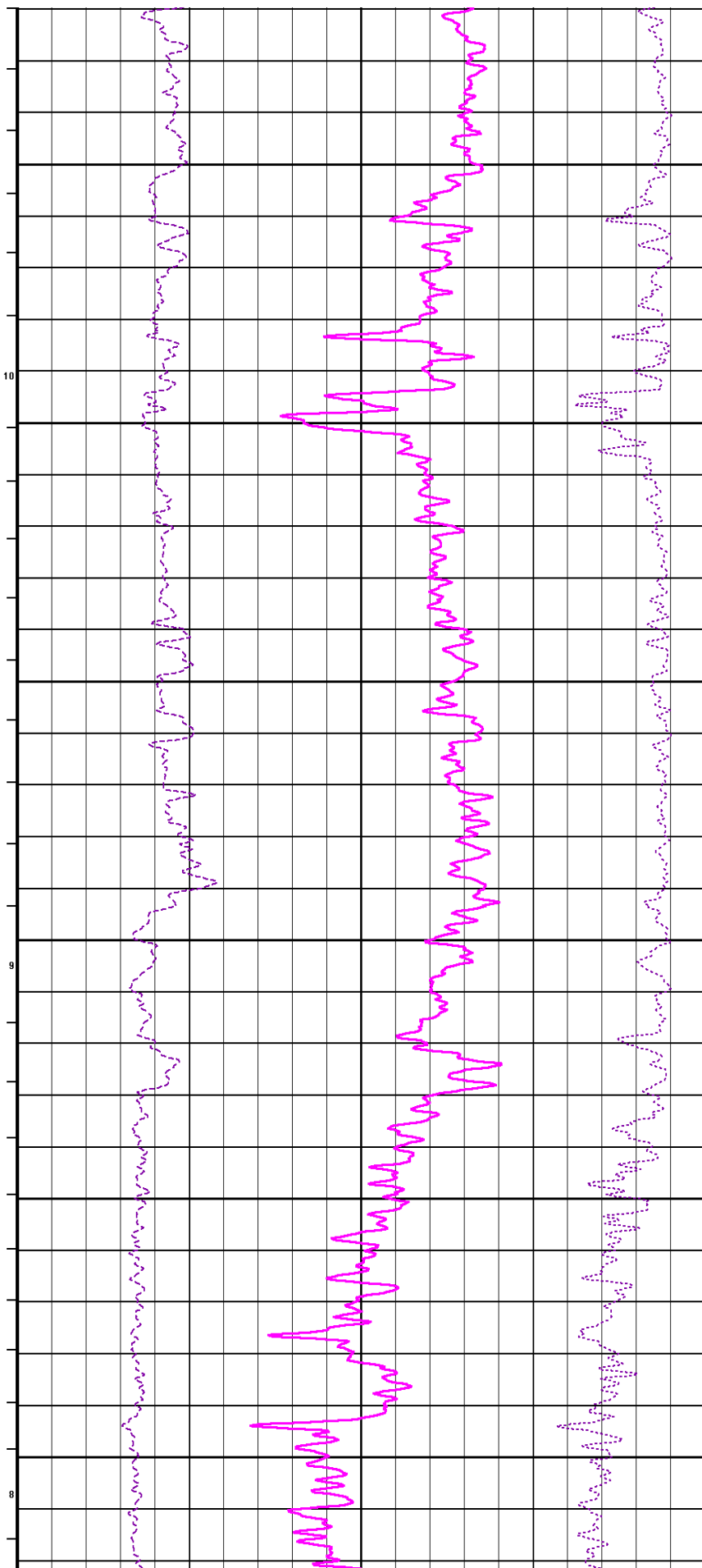
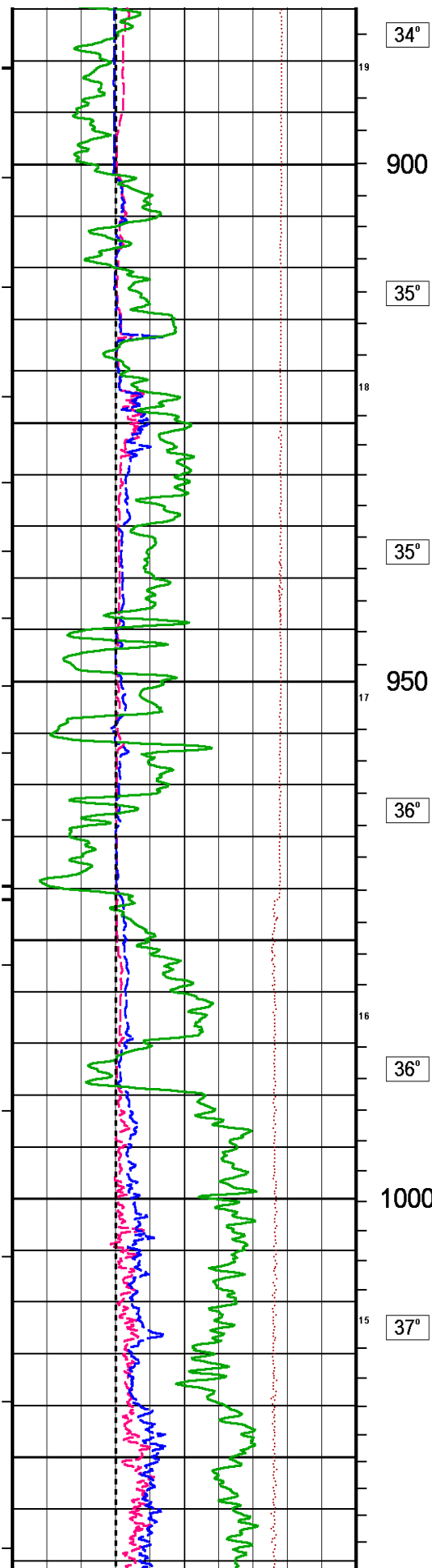
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs,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

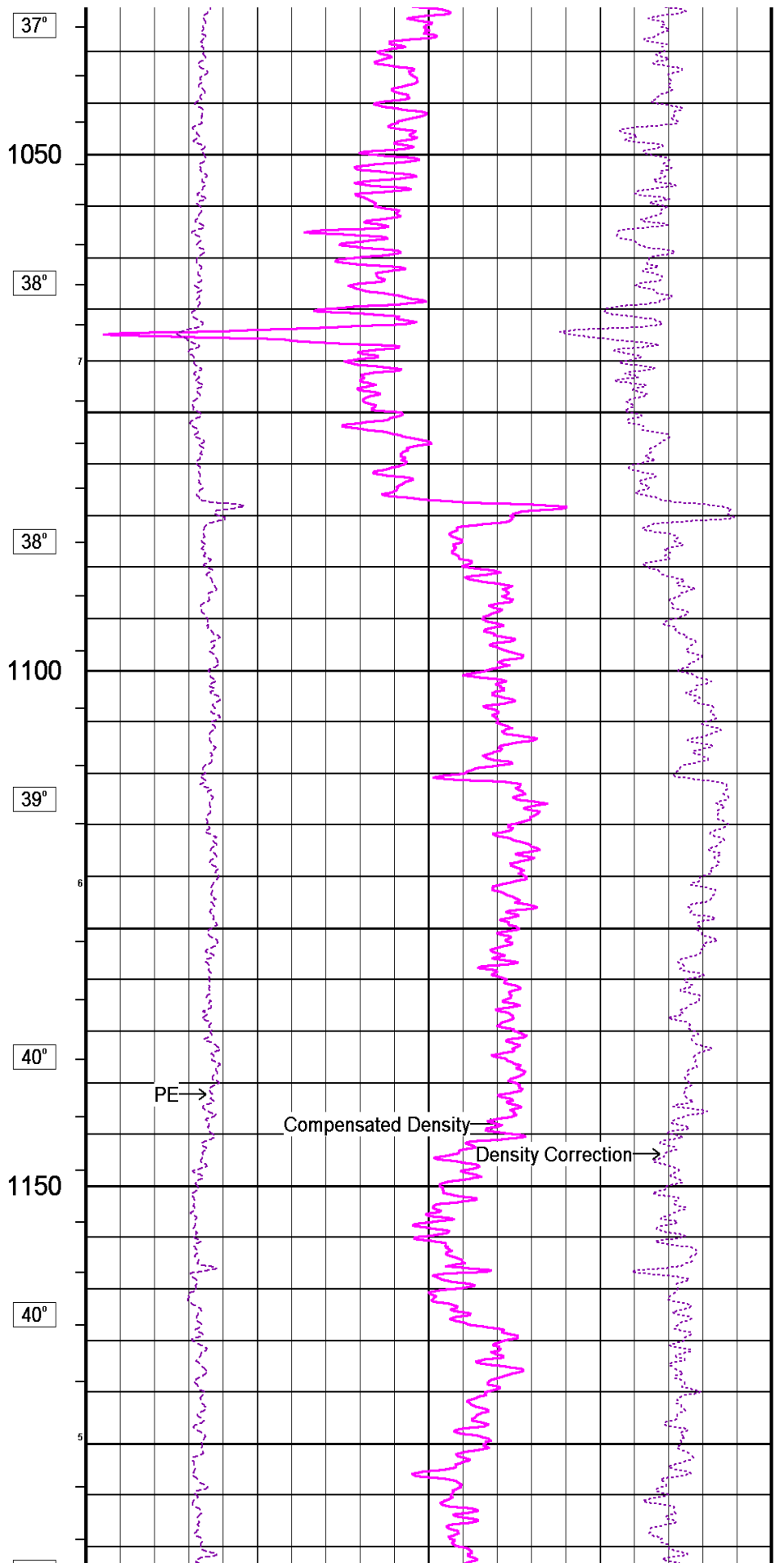
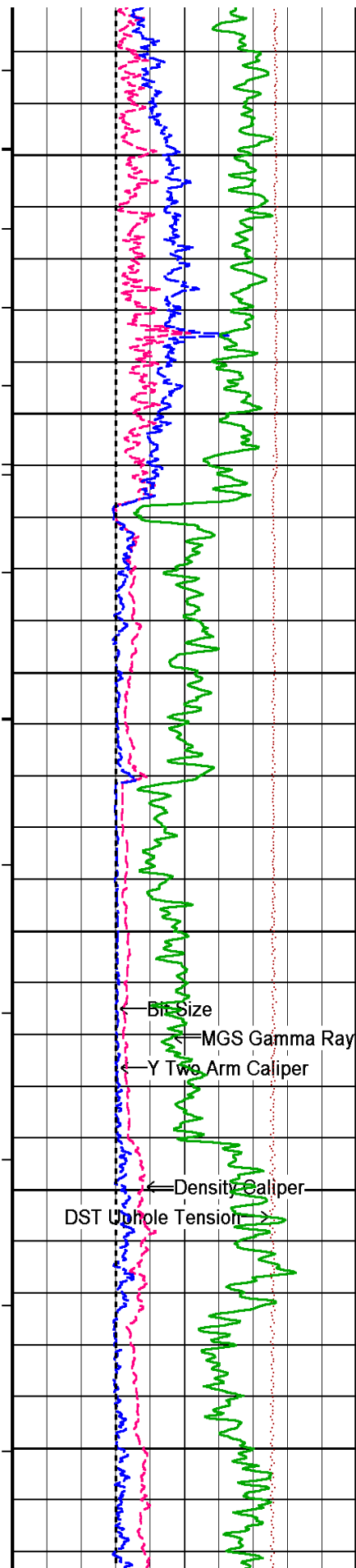


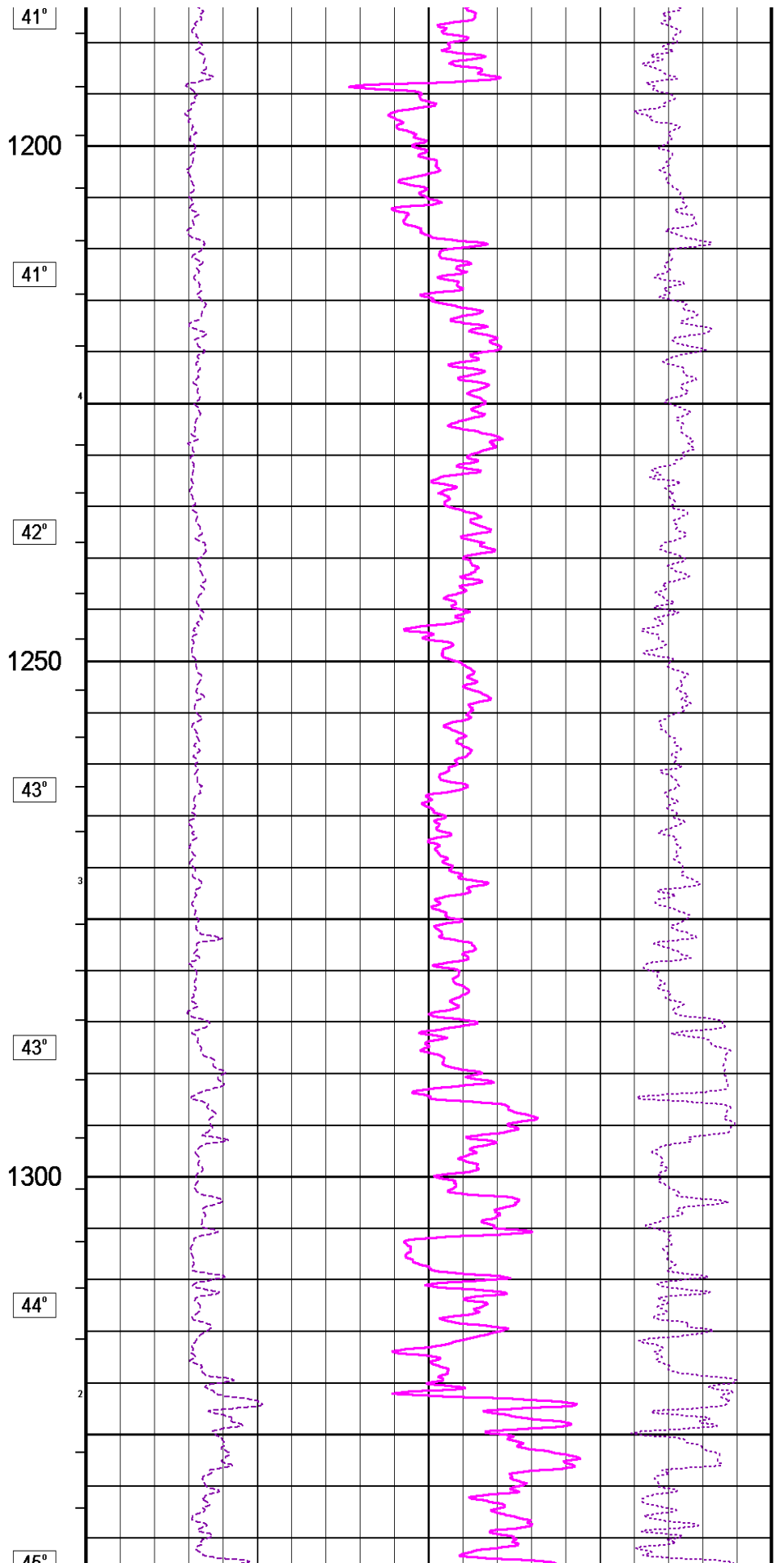
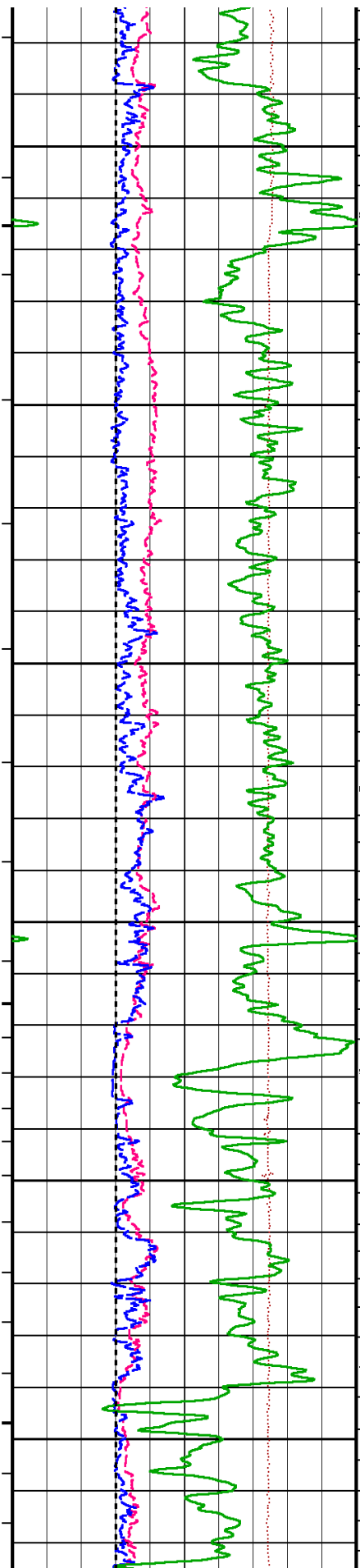


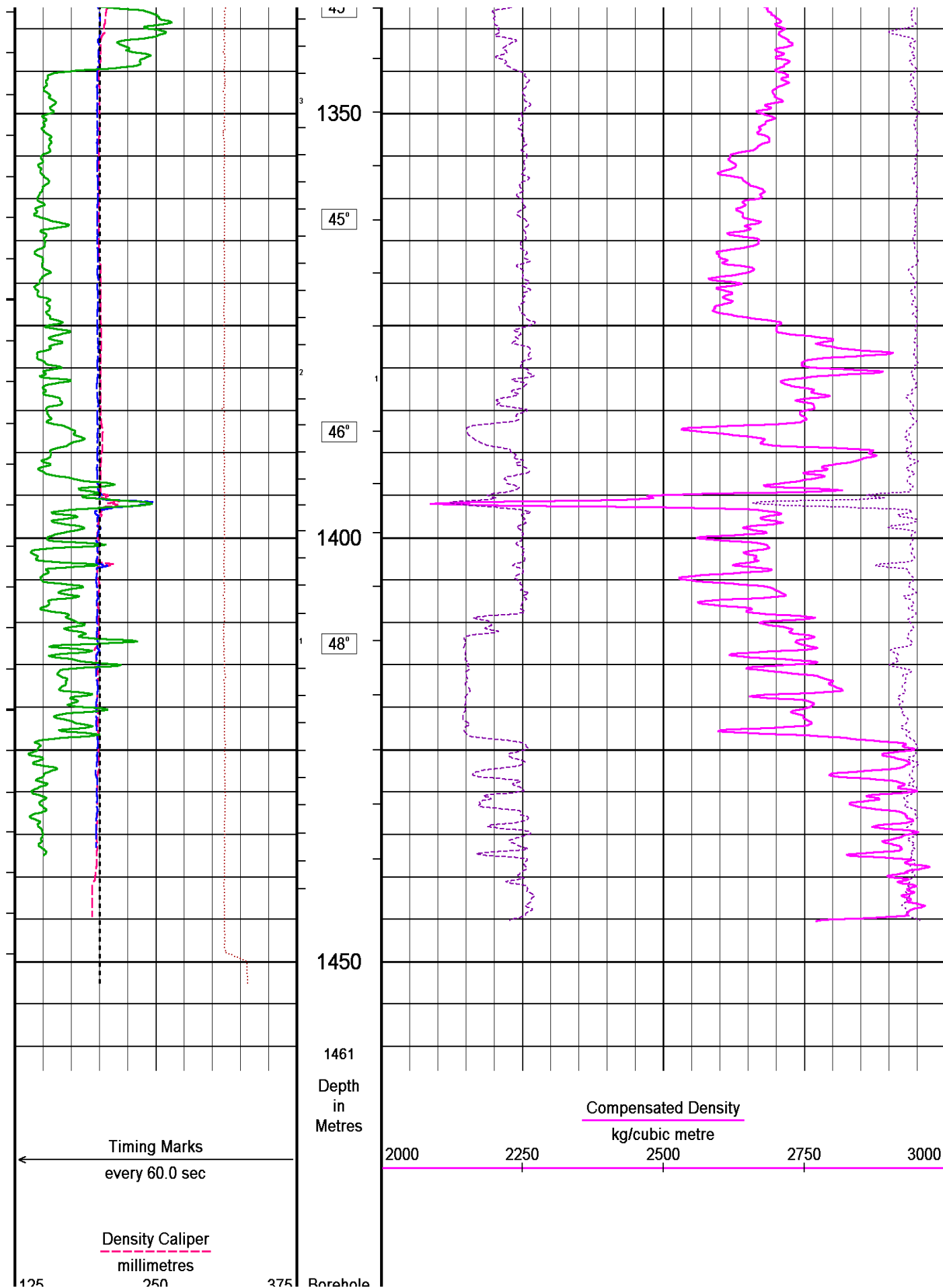


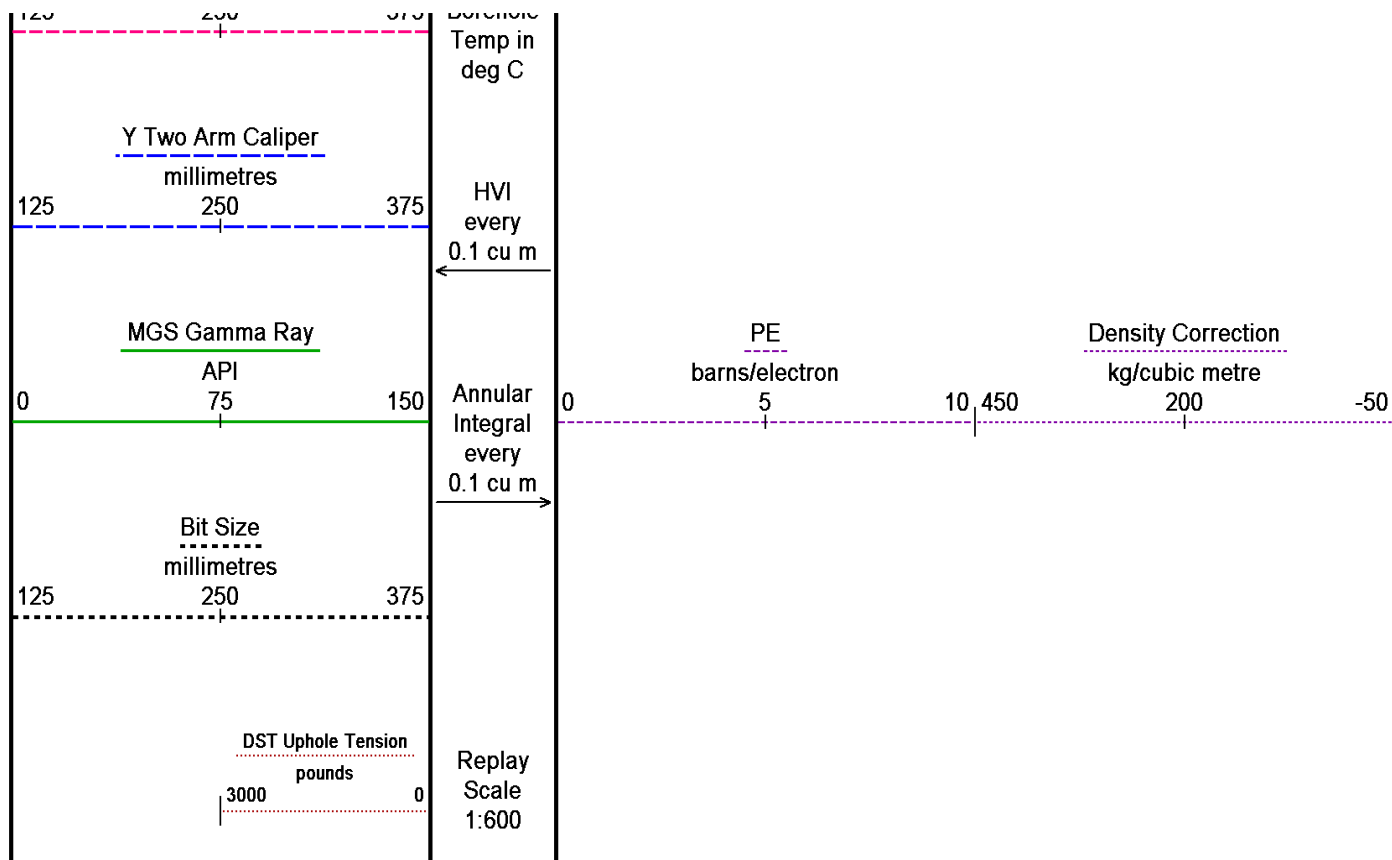












Depth Based Data - Maximum Sampling Increment 10.0cm

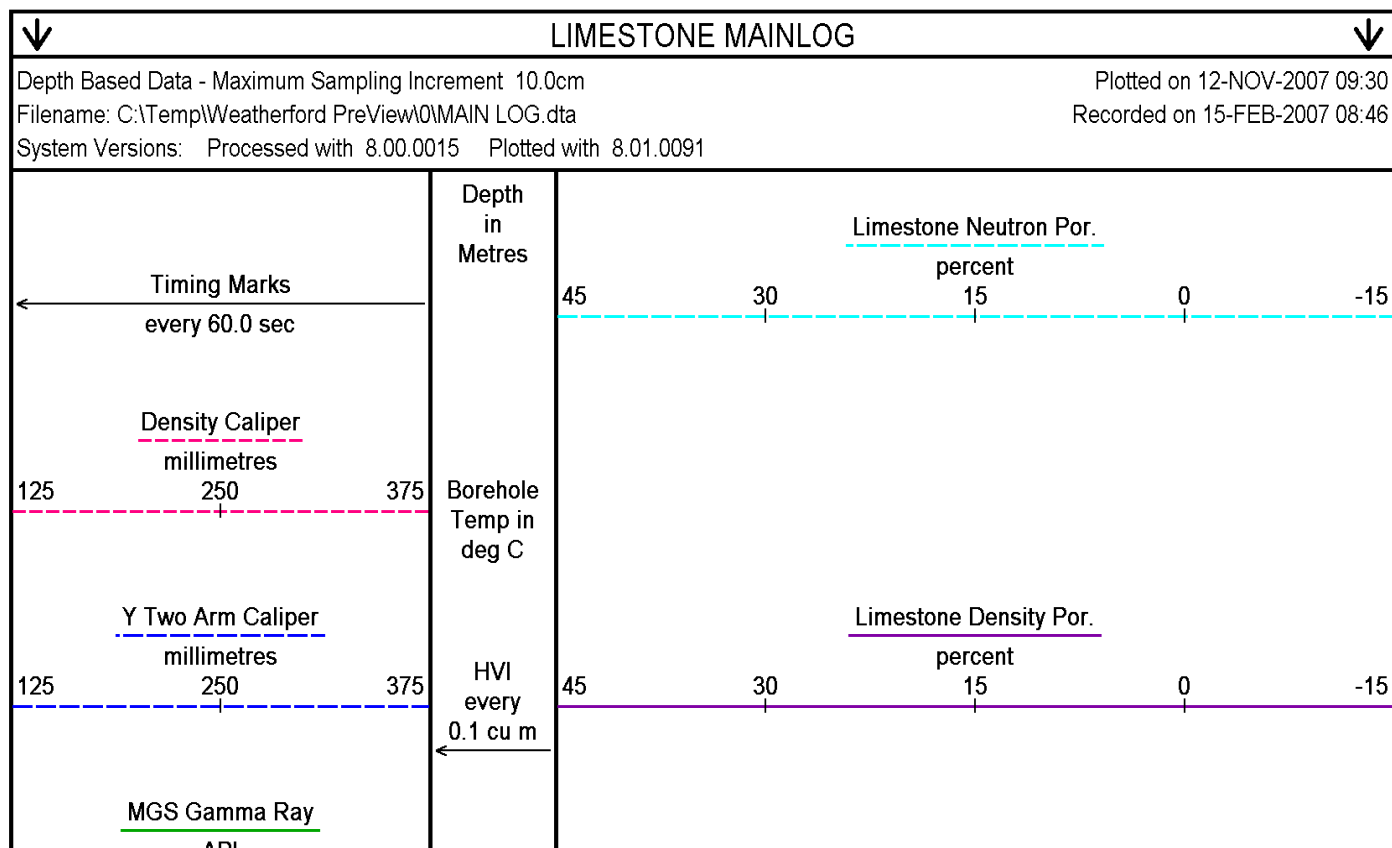
Plotted on 12-NOV-2007 09:30

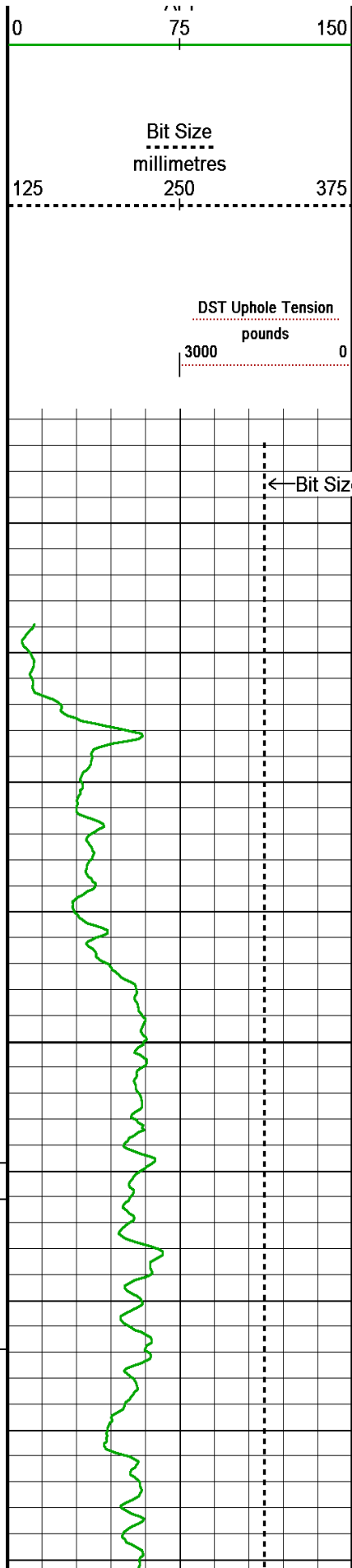
Filename: C:\Temp\Weatherford PreView\0\MAIN LOG.dta

Recorded on 15-FEB-2007 08:46

System Versions: Processed with 8.00.0015 Plotted with 8.01.0091

↑ BULK DENSITY 1:600 ↑





Annular
Integral
every
0.1 cu m

Replay
Scale
1:240

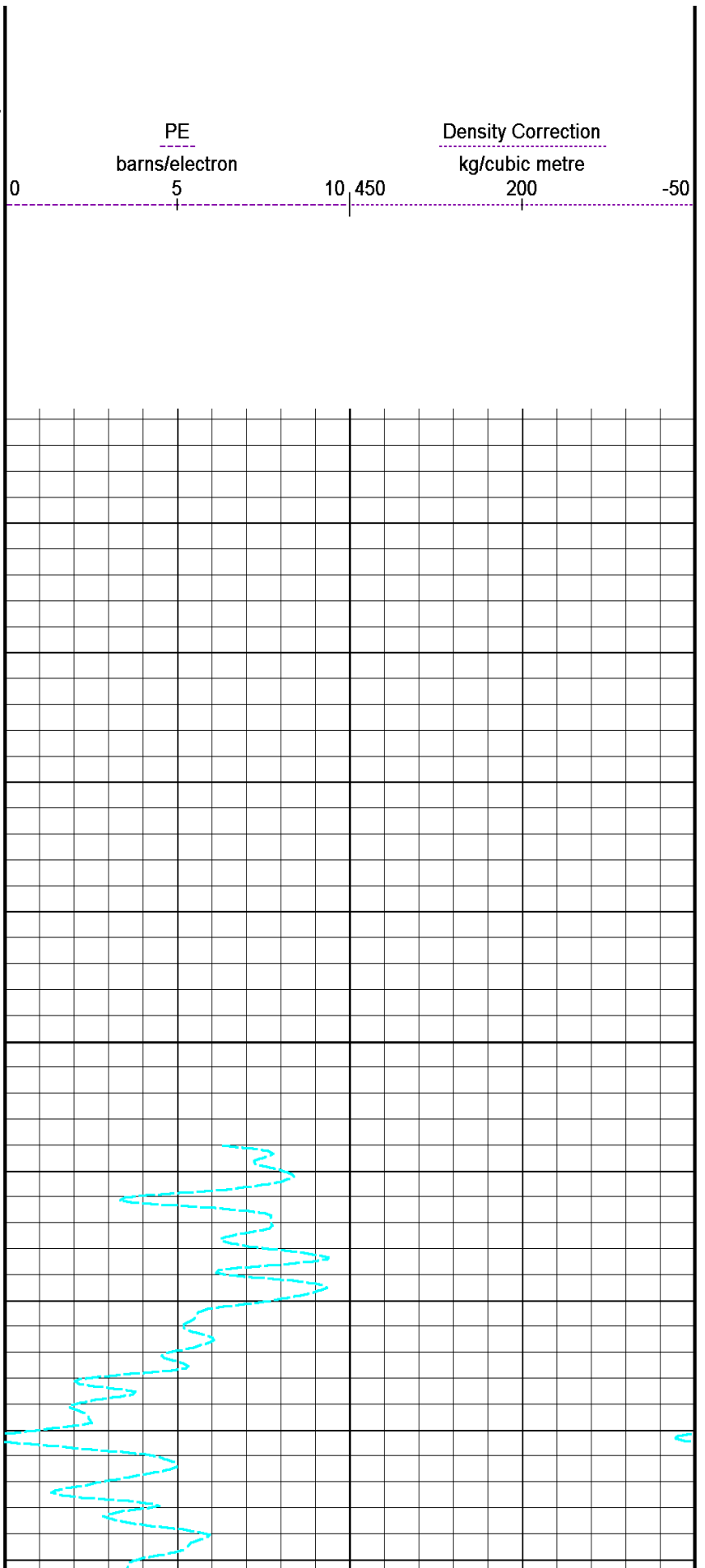
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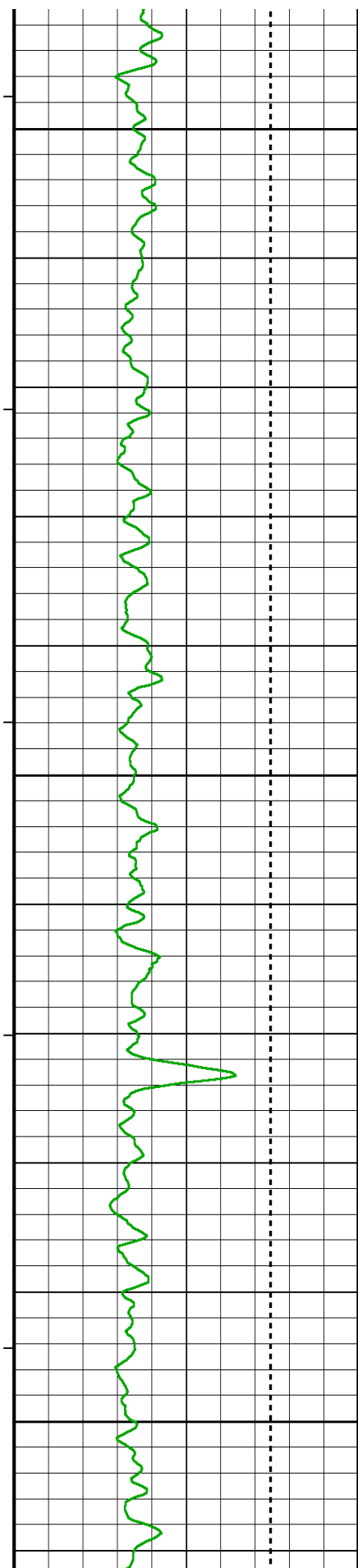
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20

30

40





50

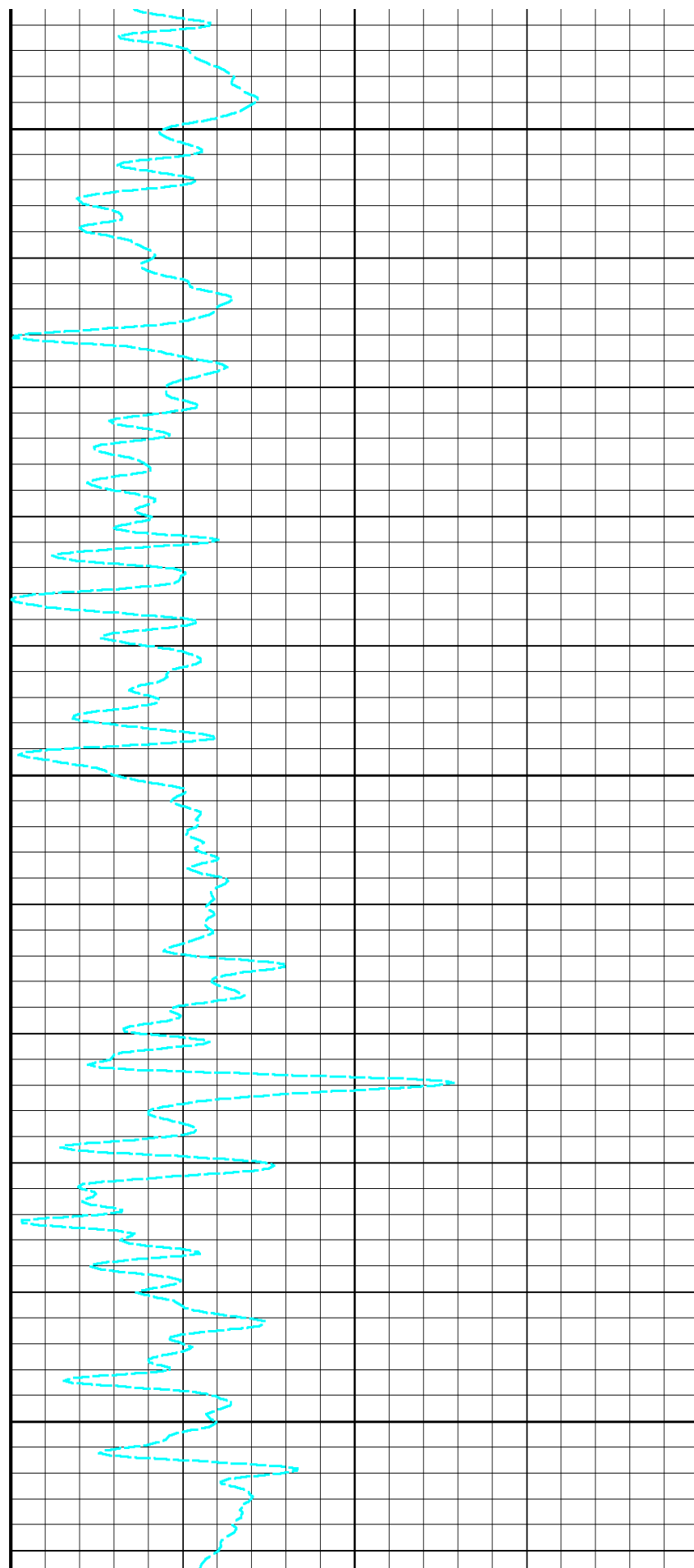
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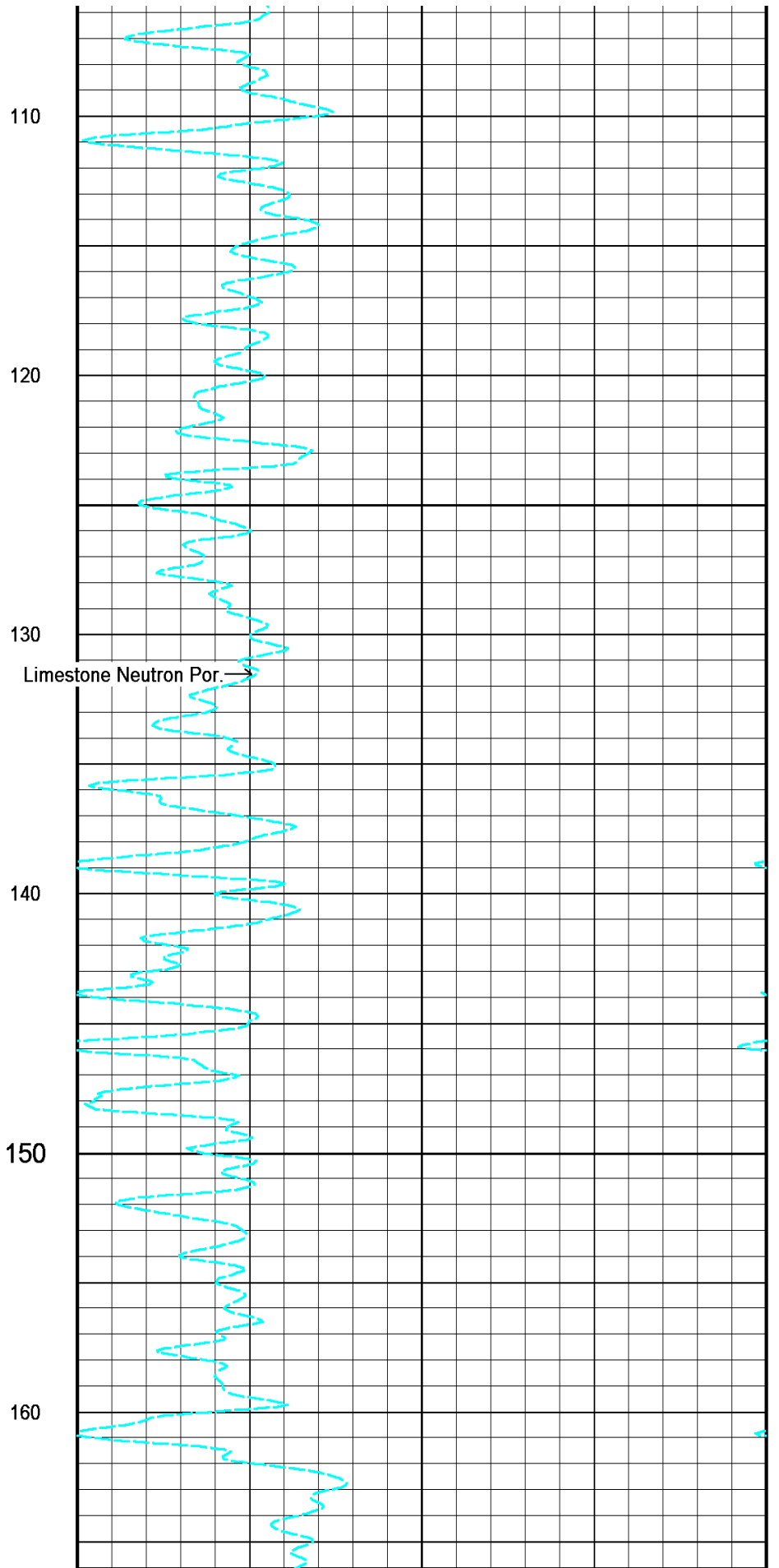
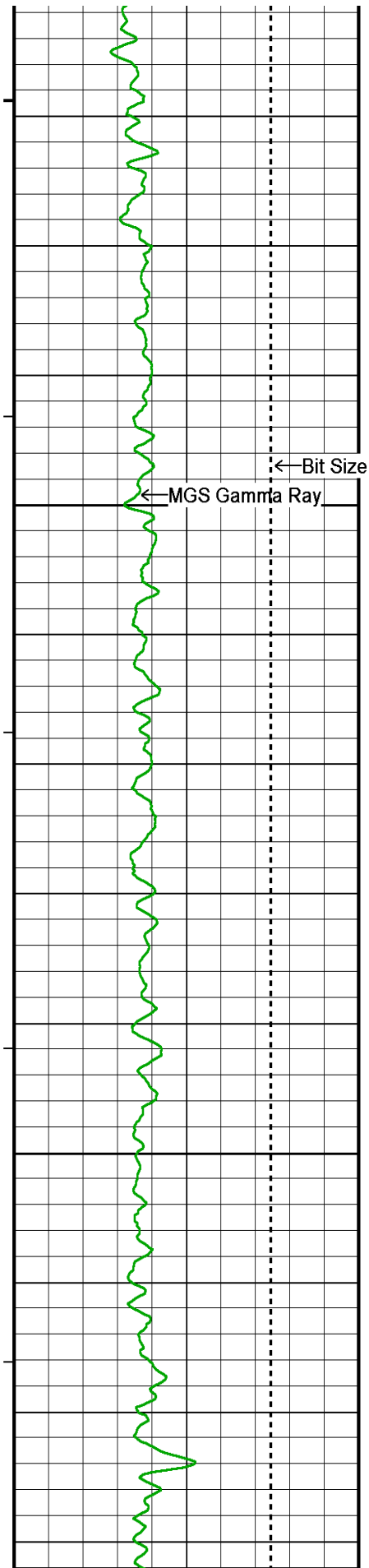
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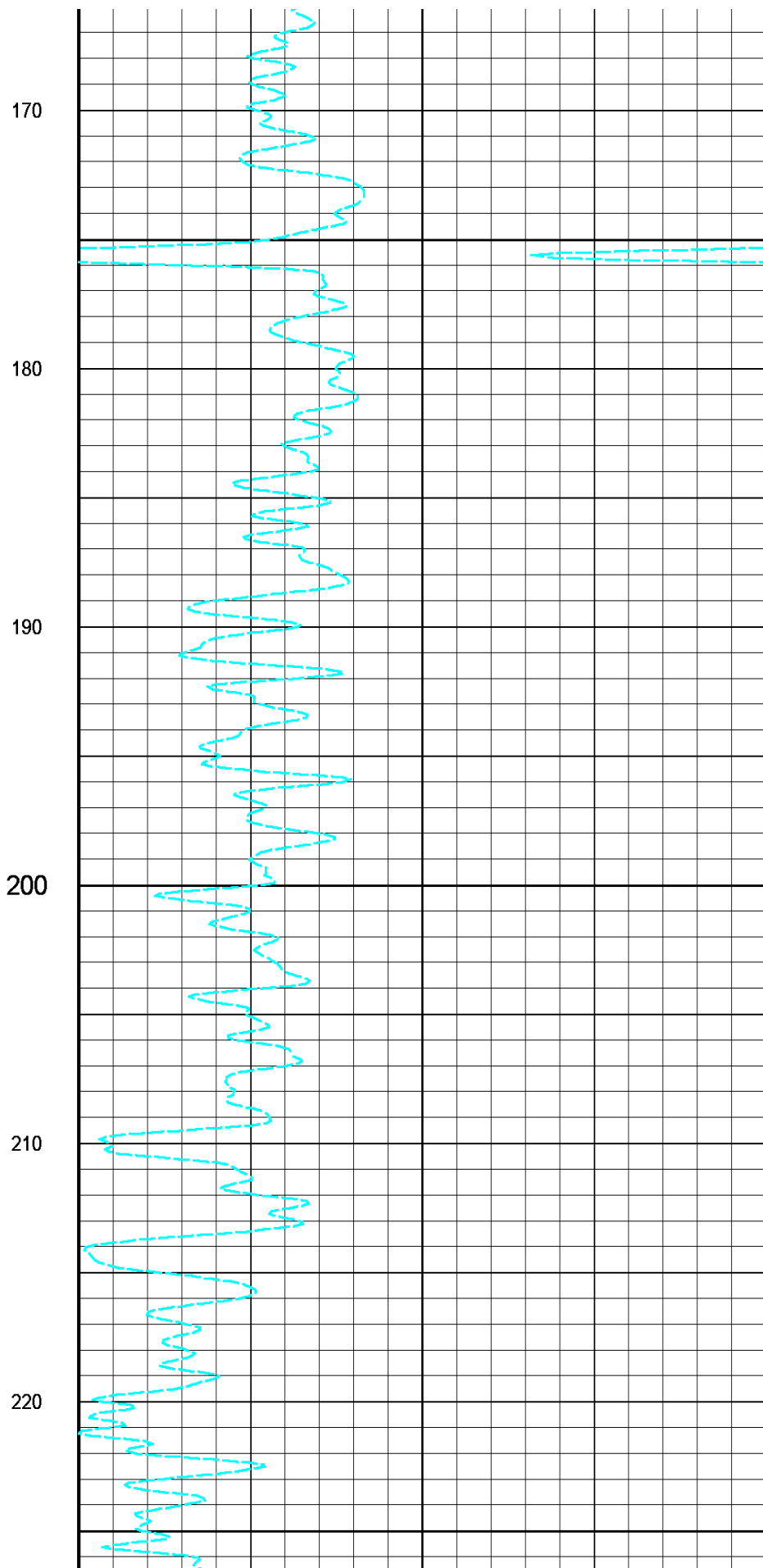
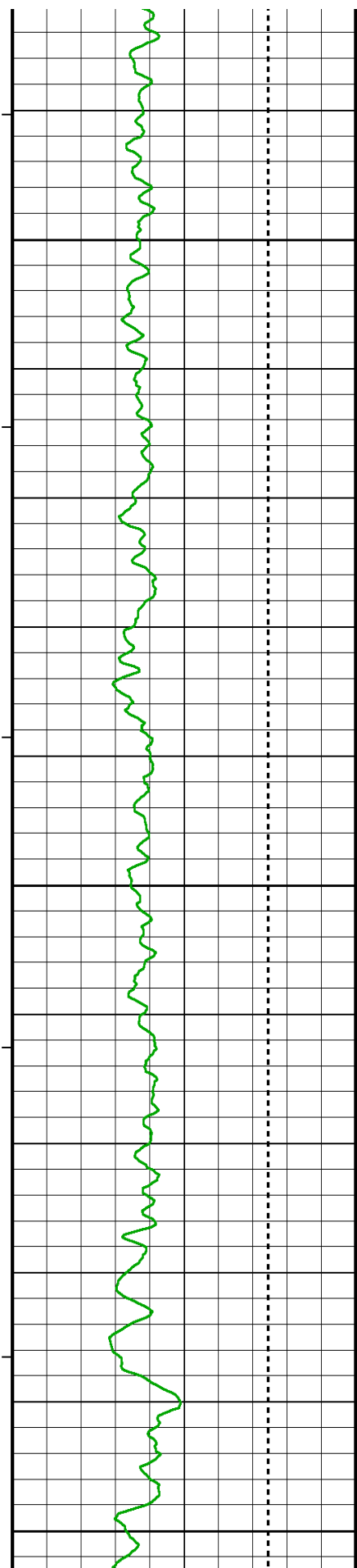
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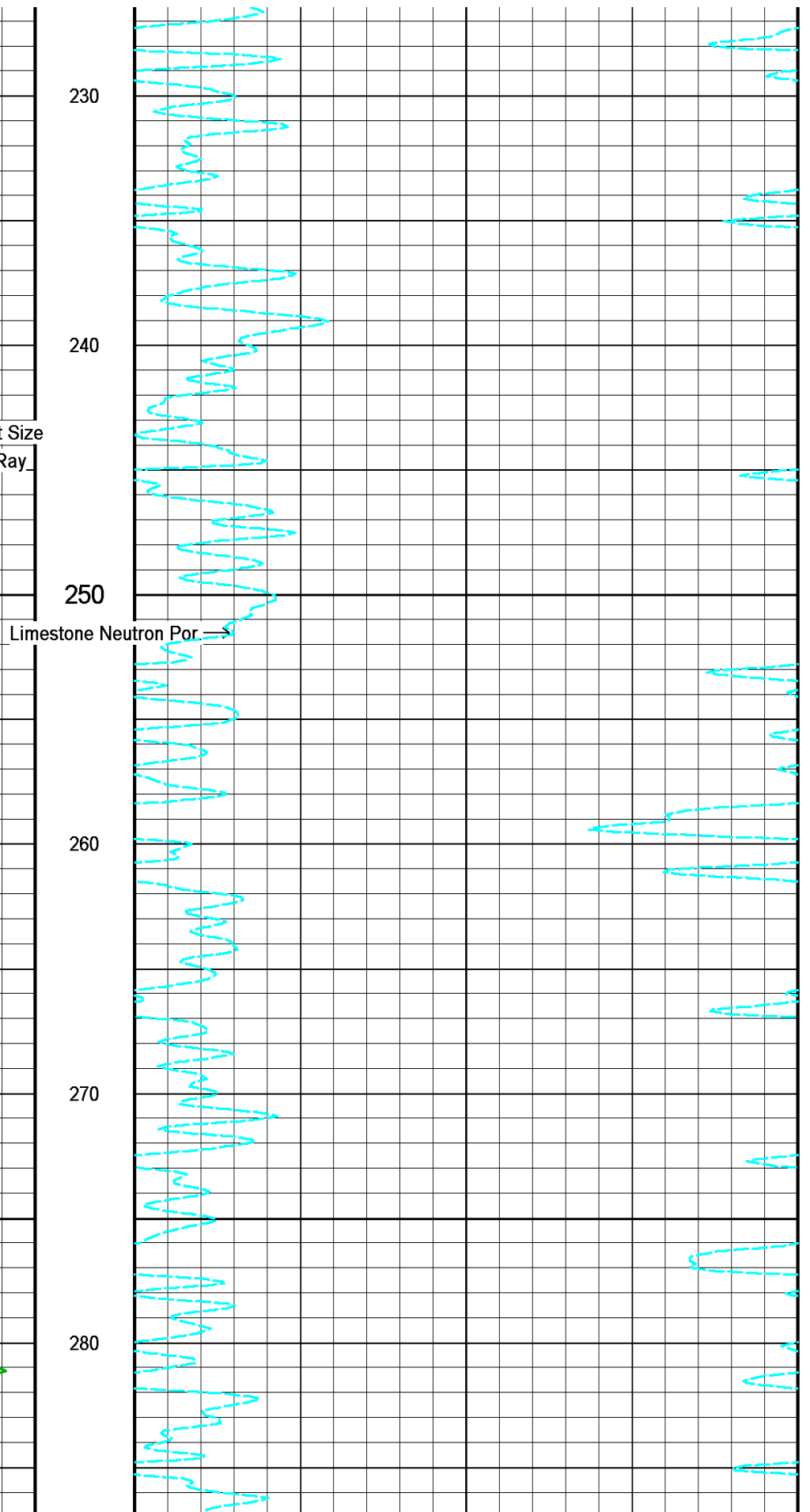
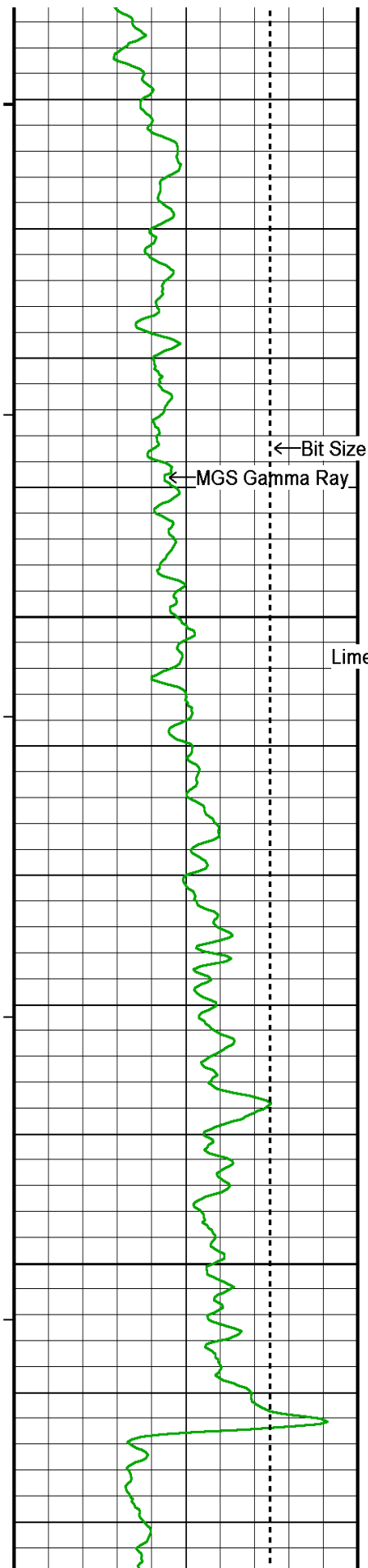
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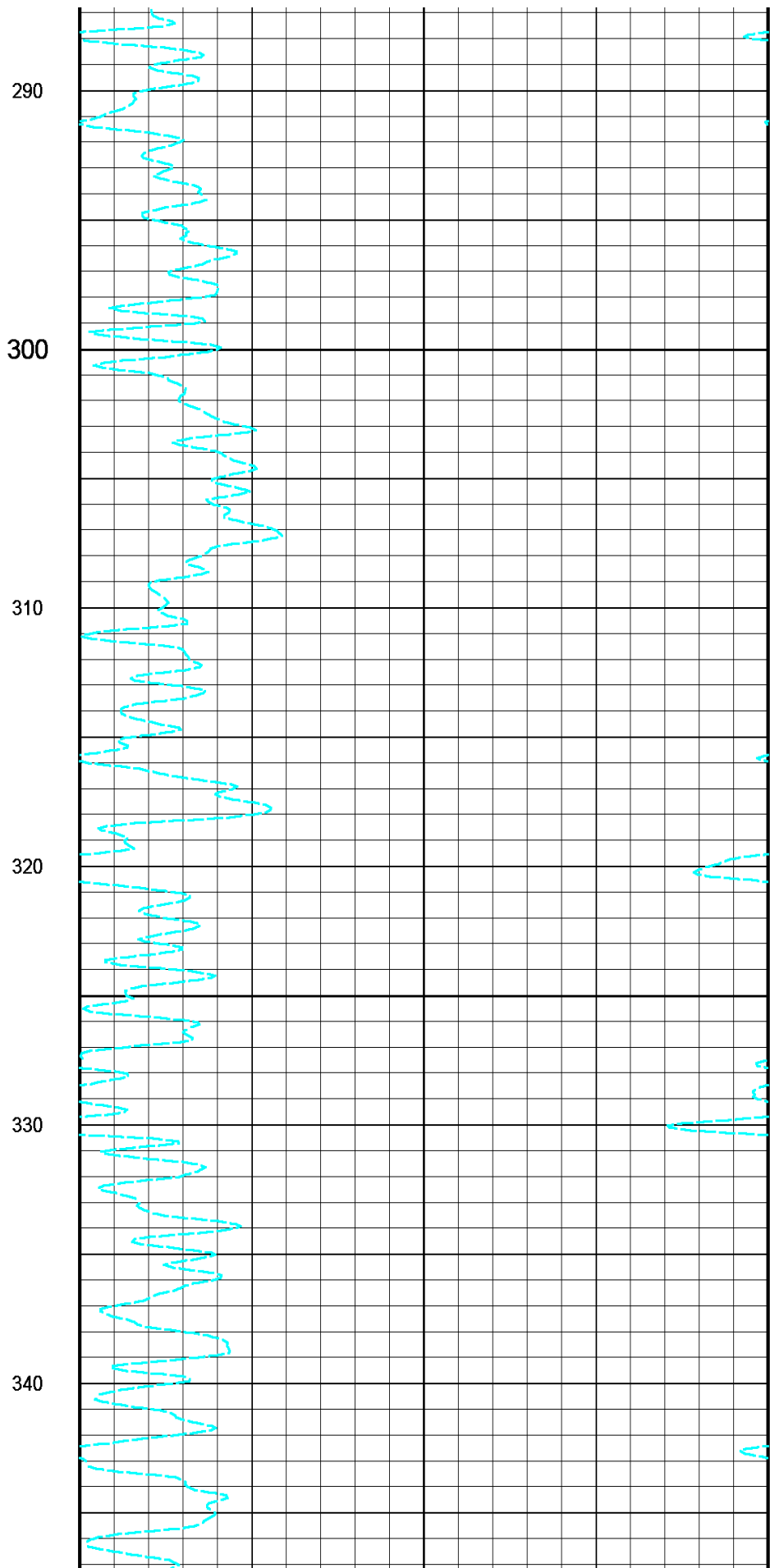
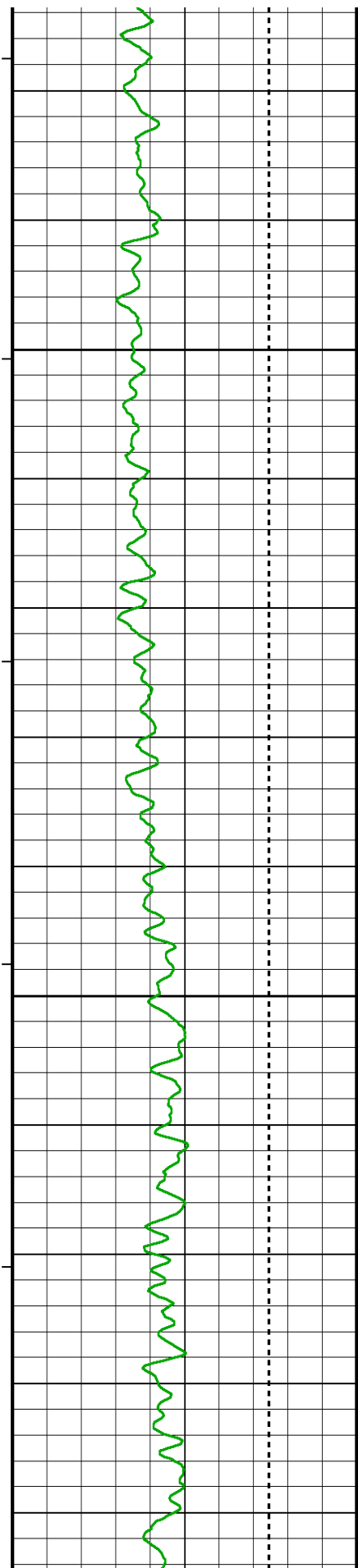
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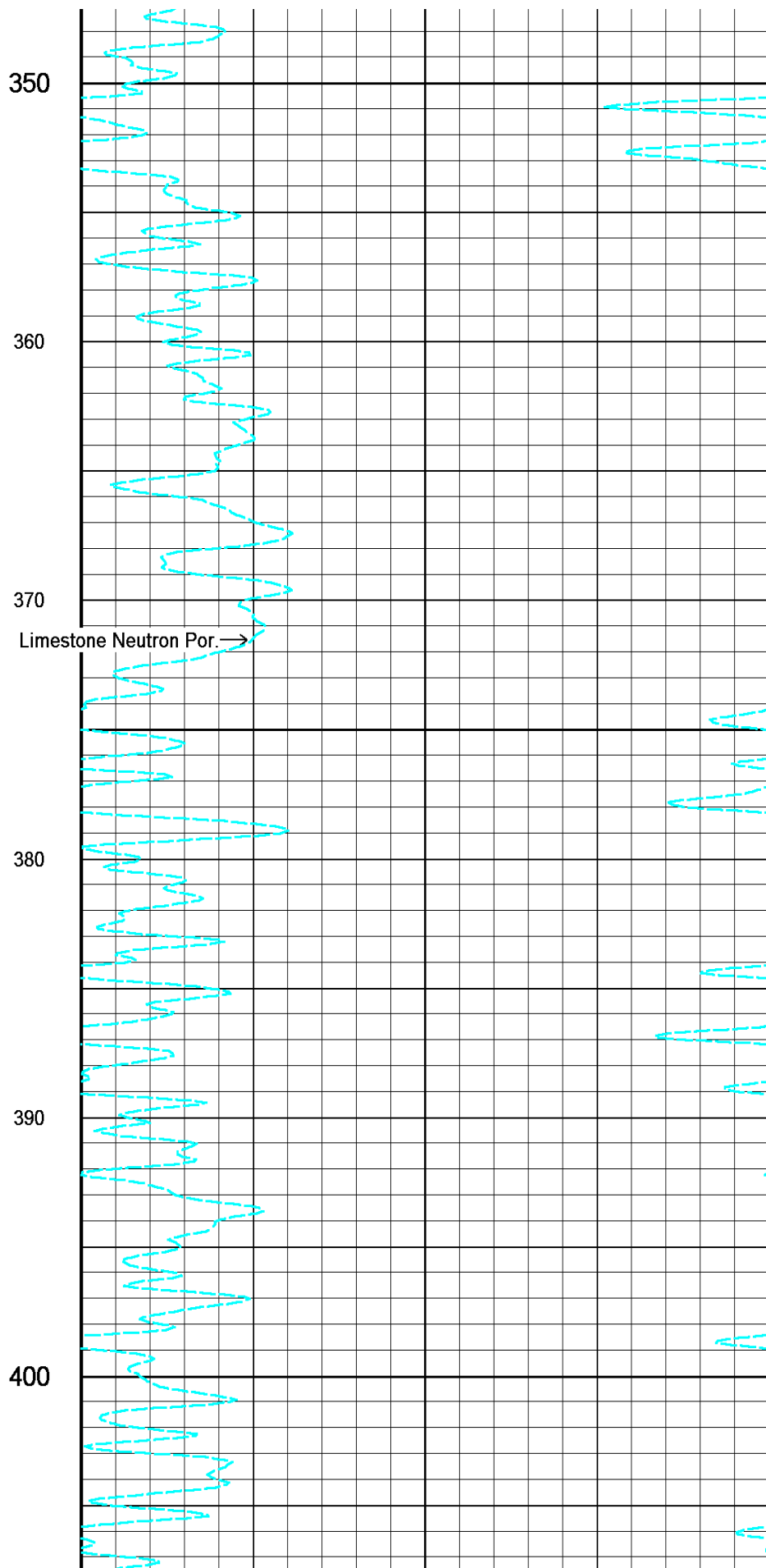
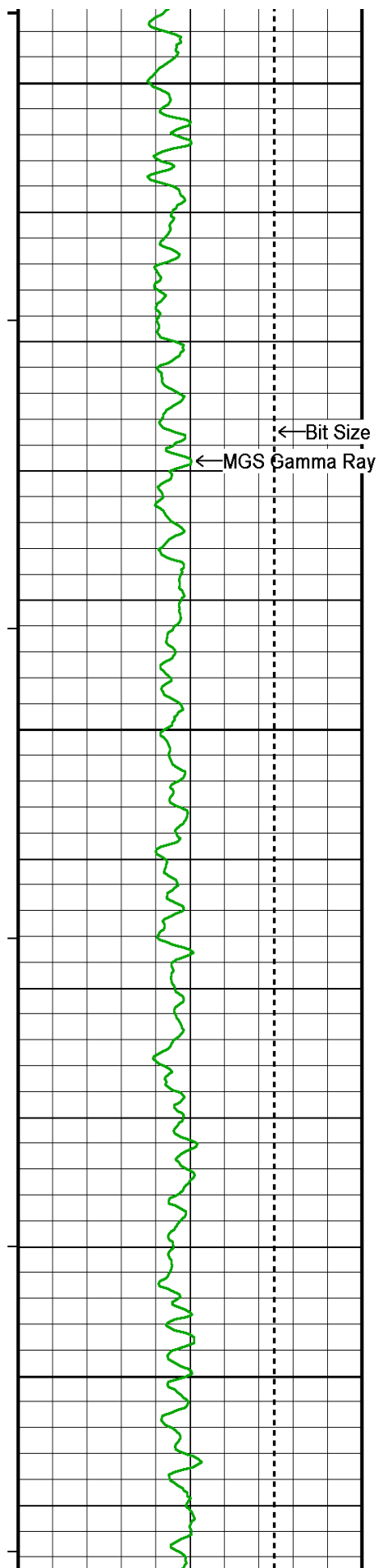


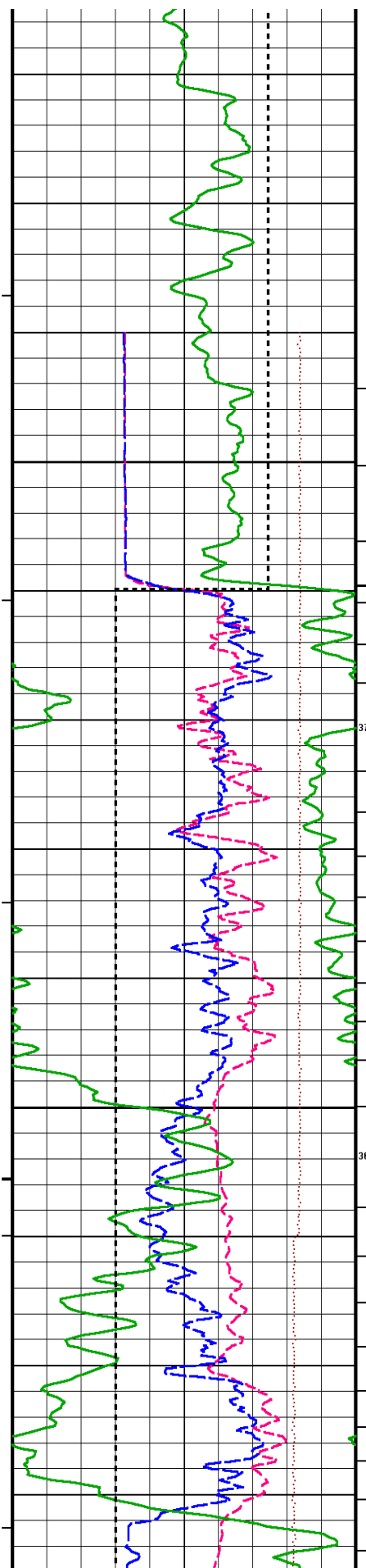












410

420

Casing
Shoe
430

37

26°

440

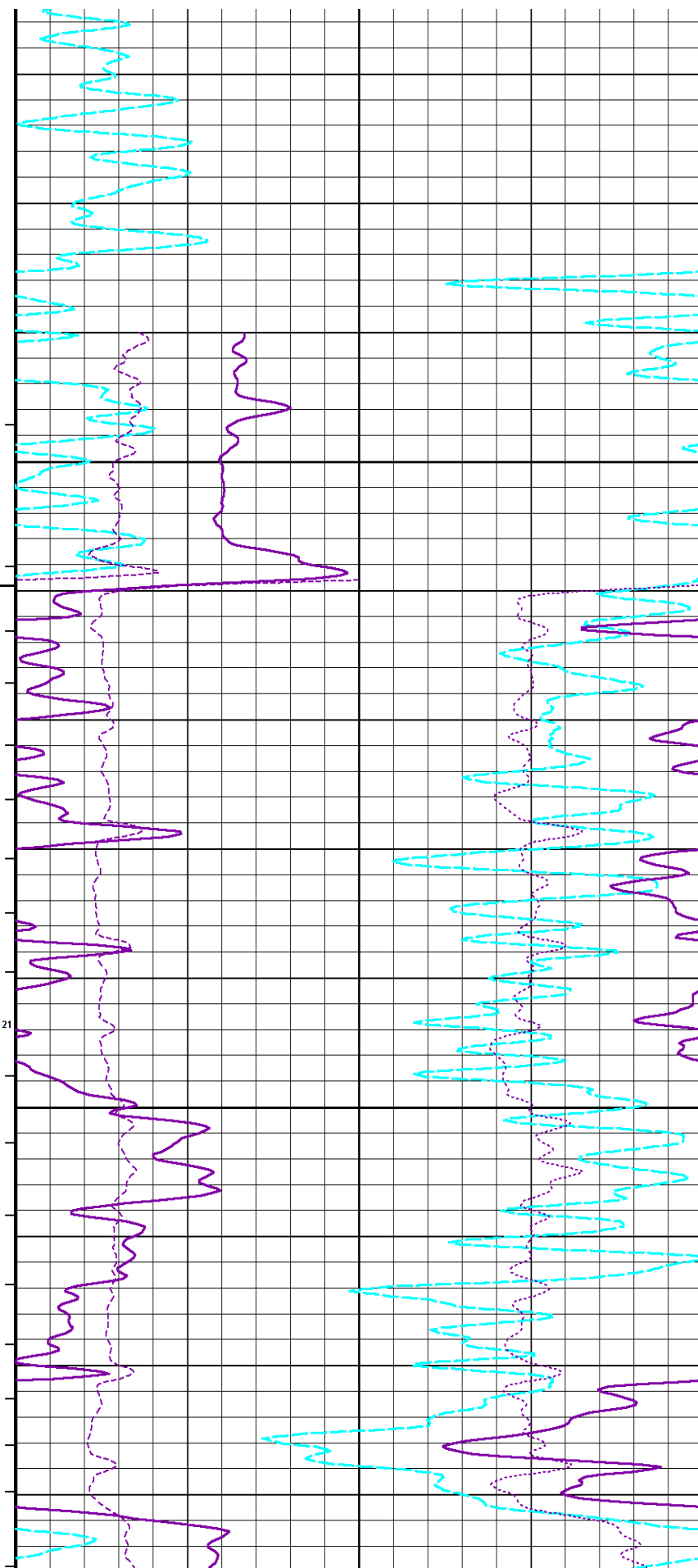
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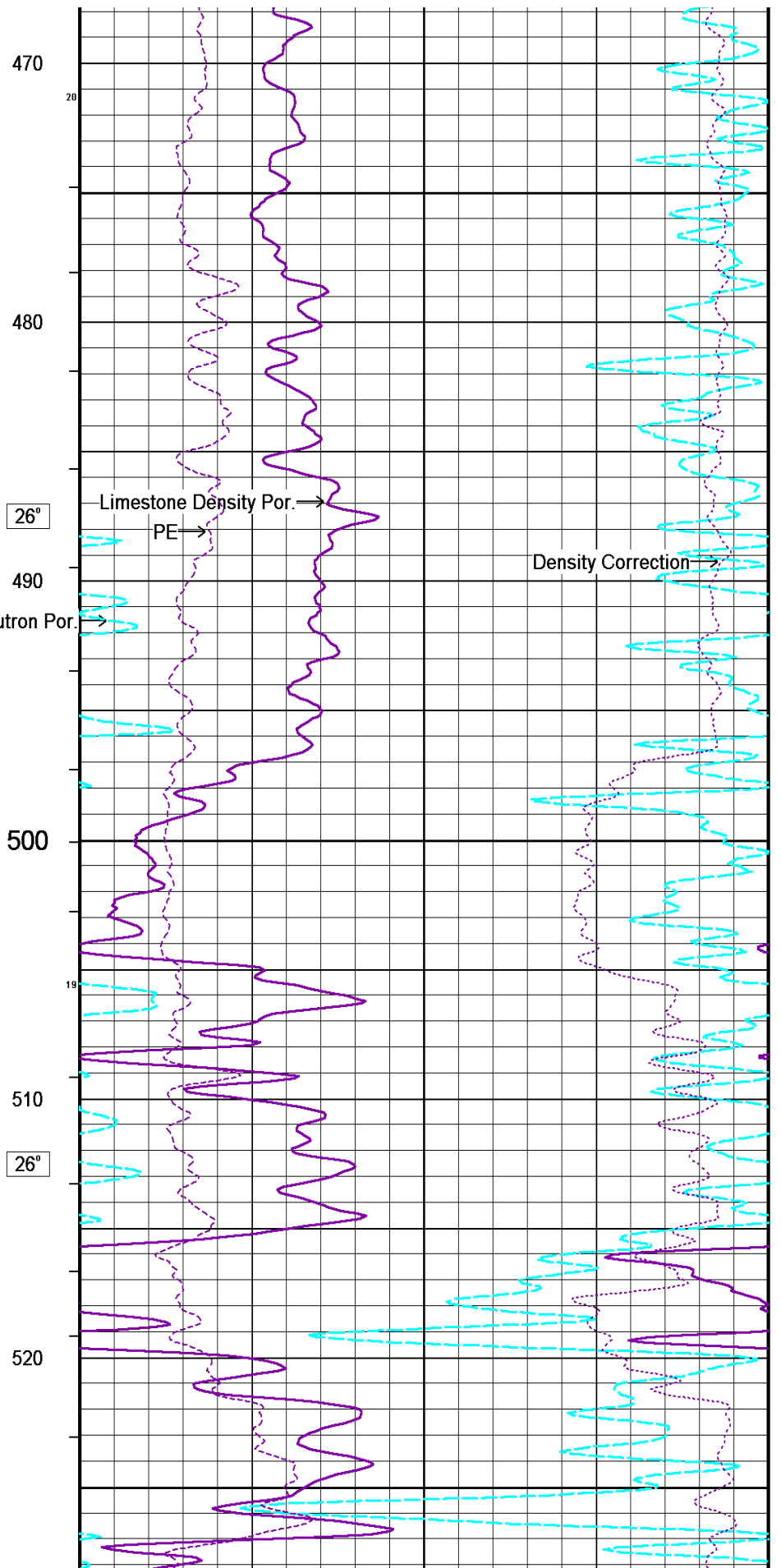
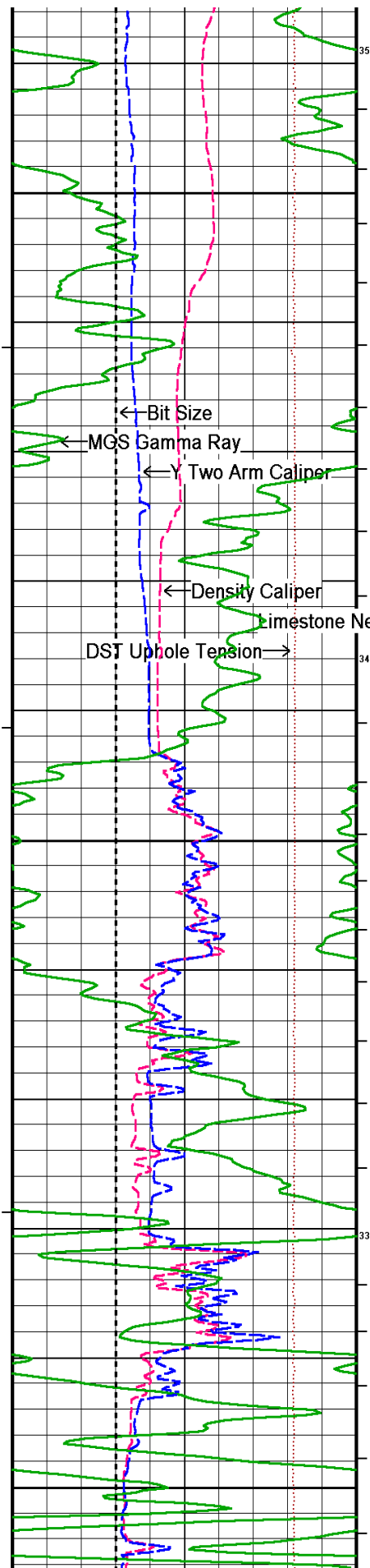
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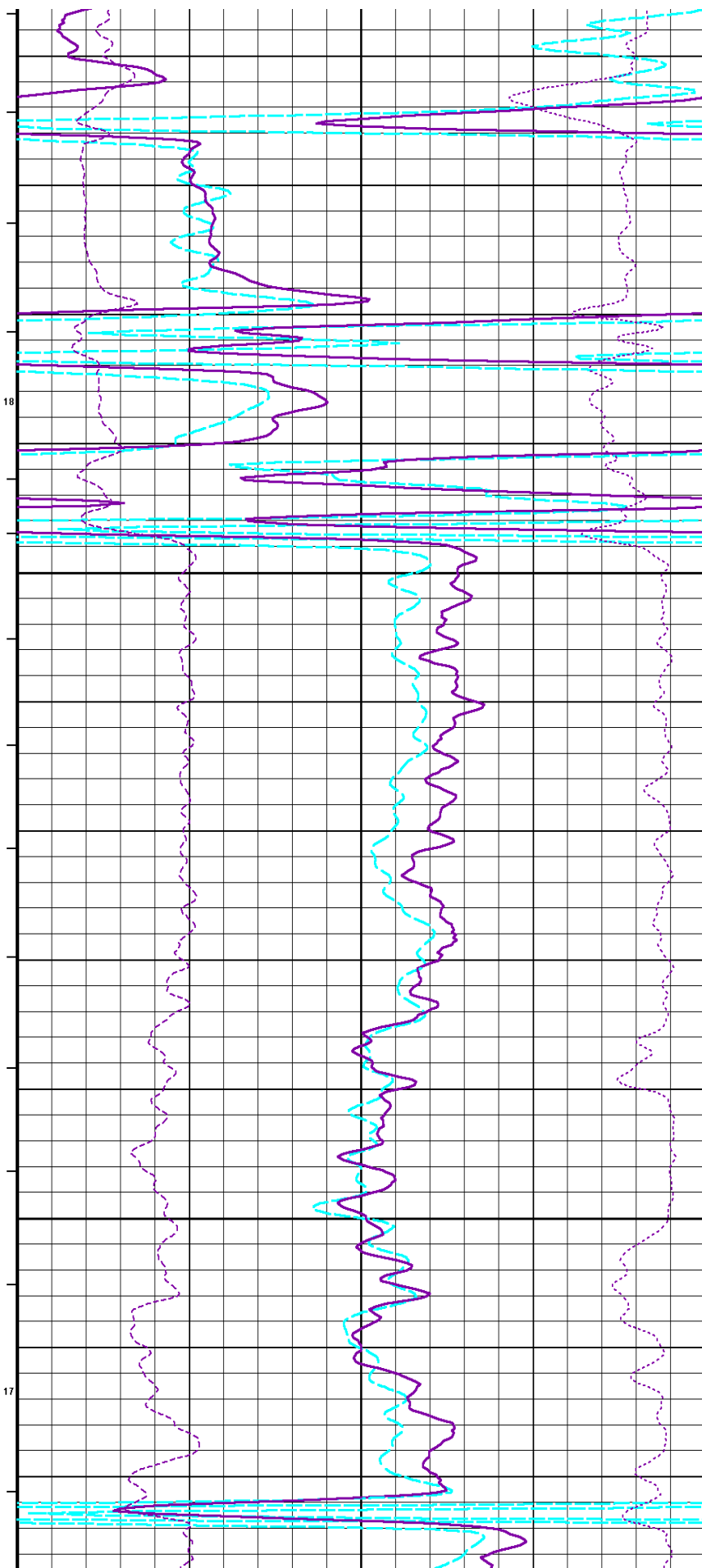
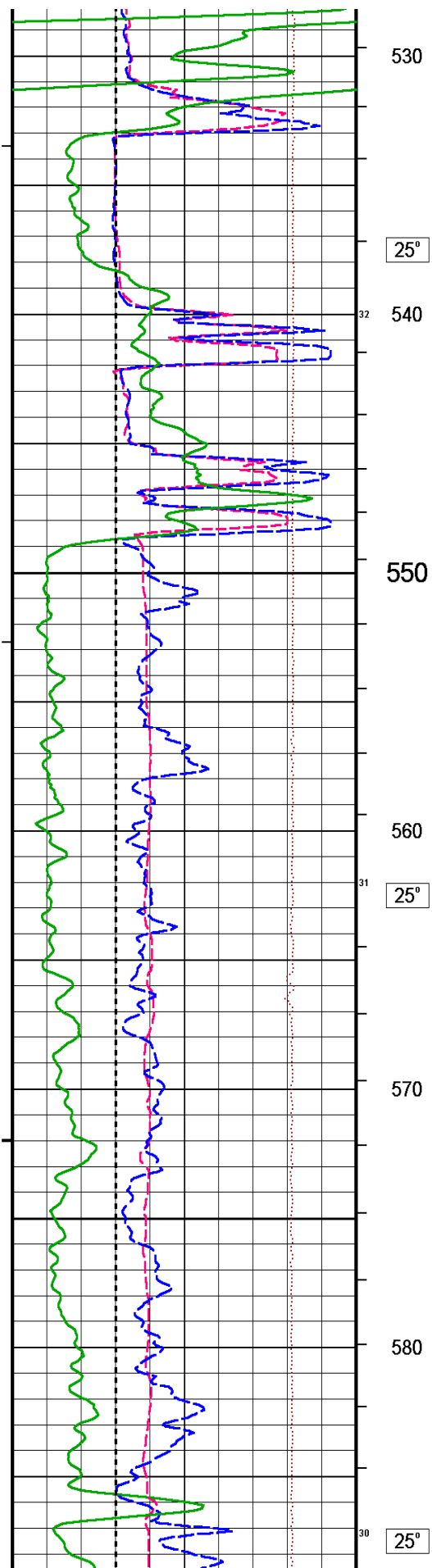
36

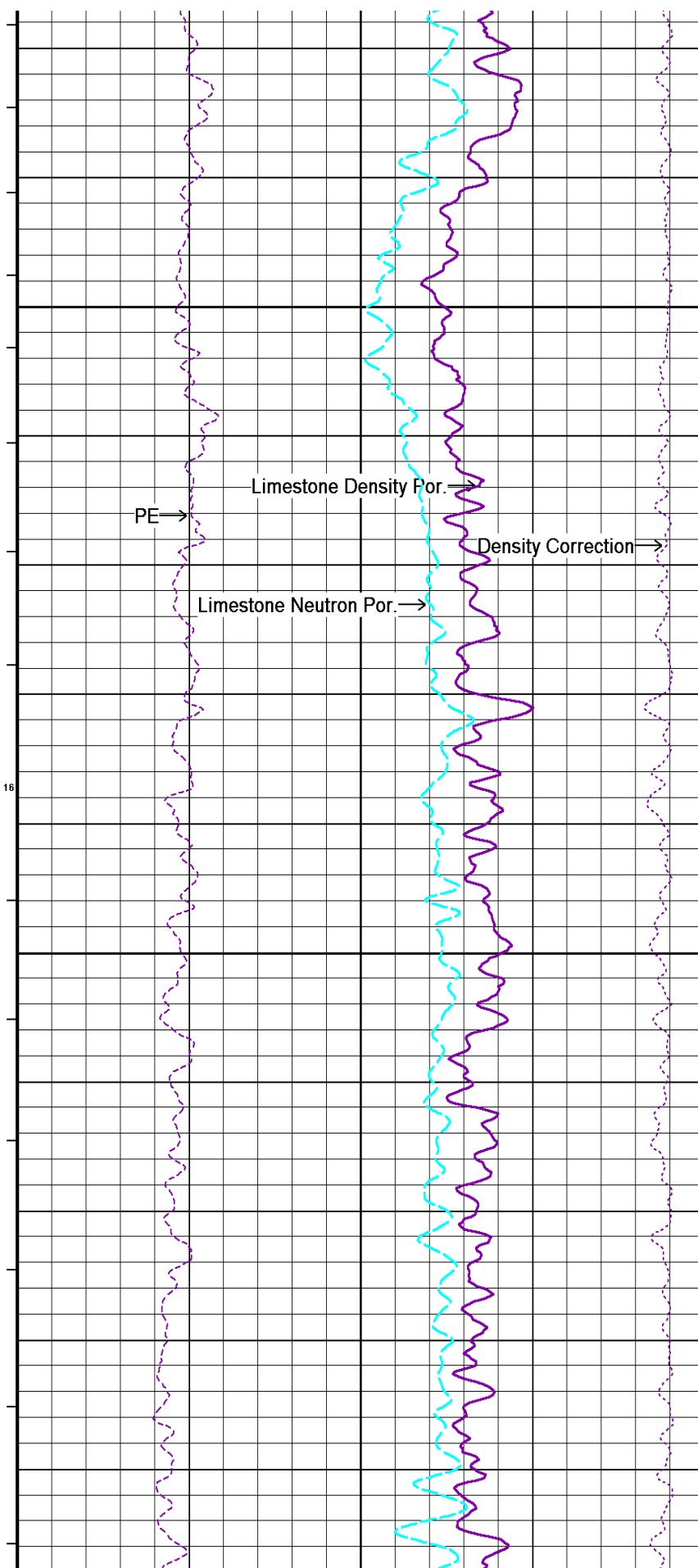
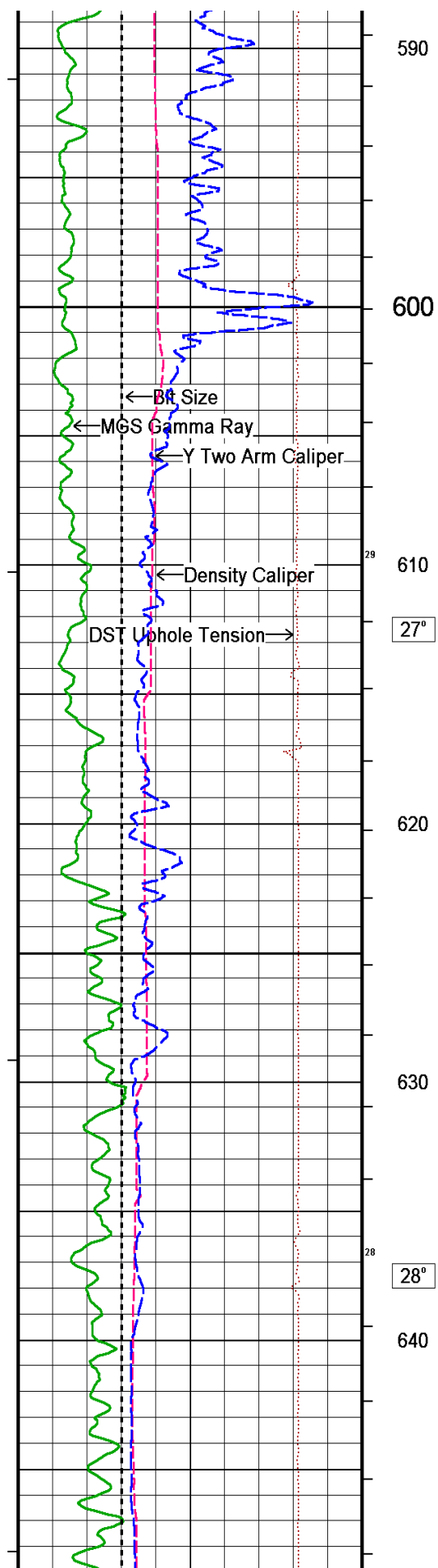
460

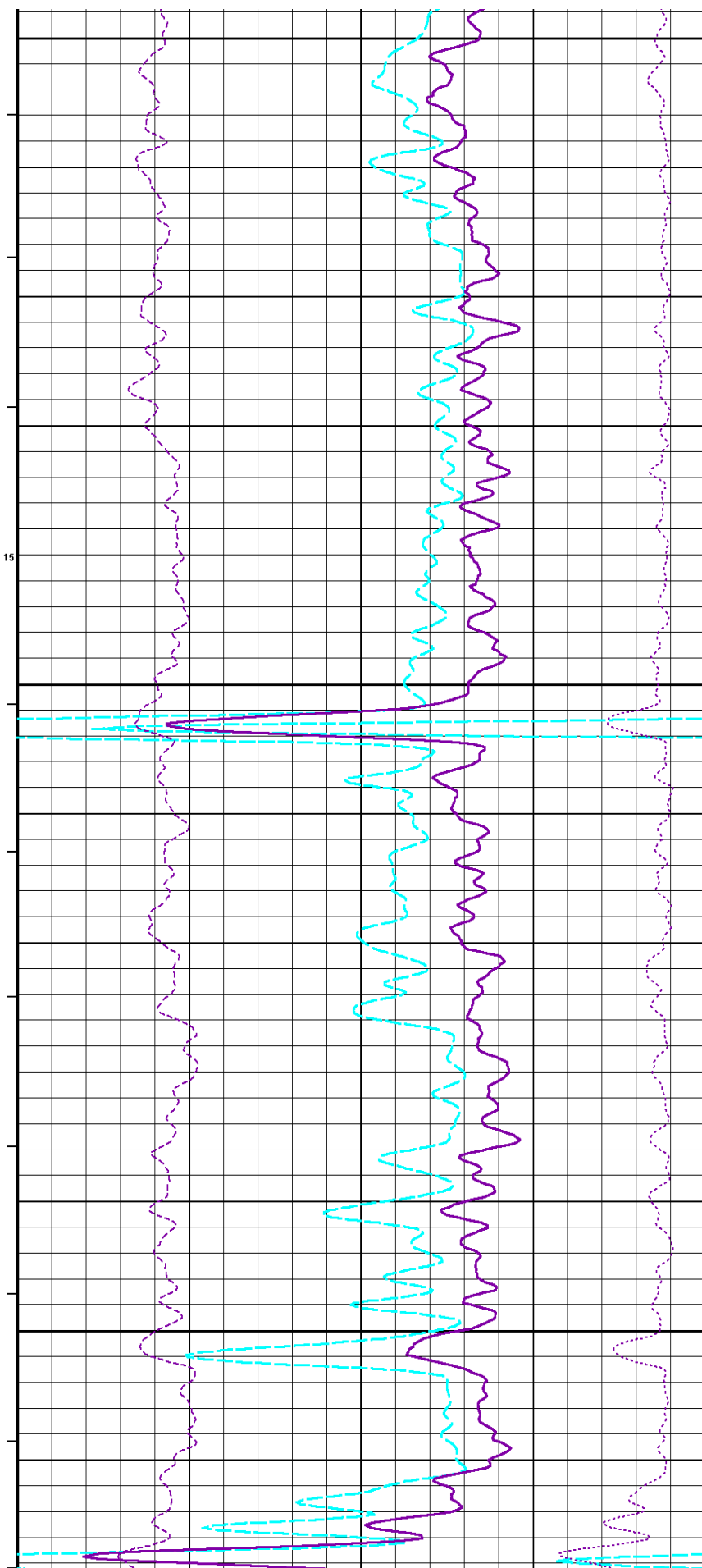
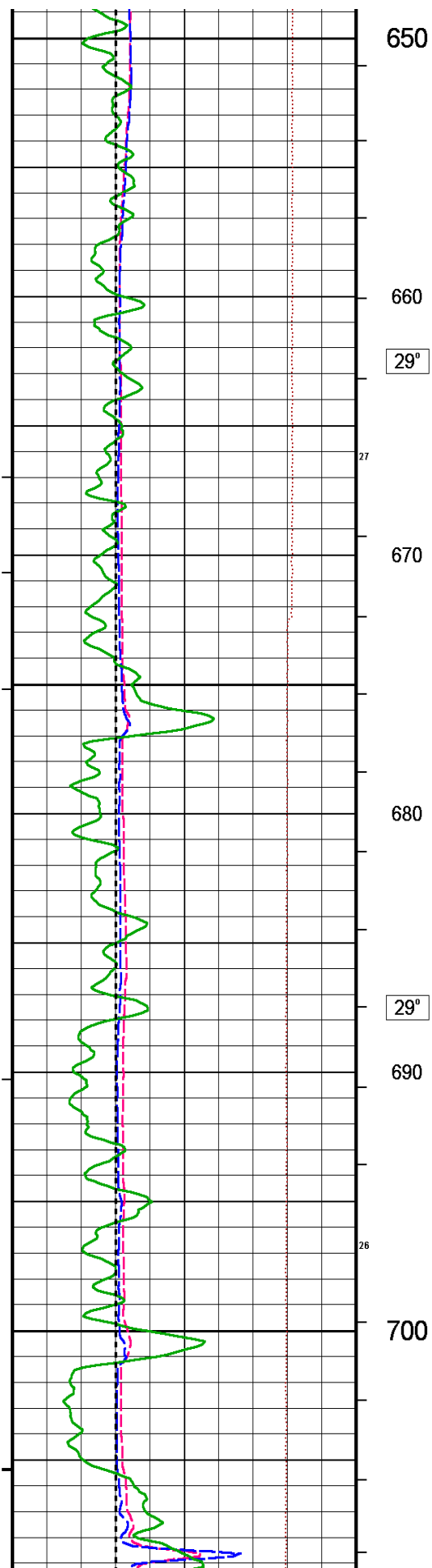
26°

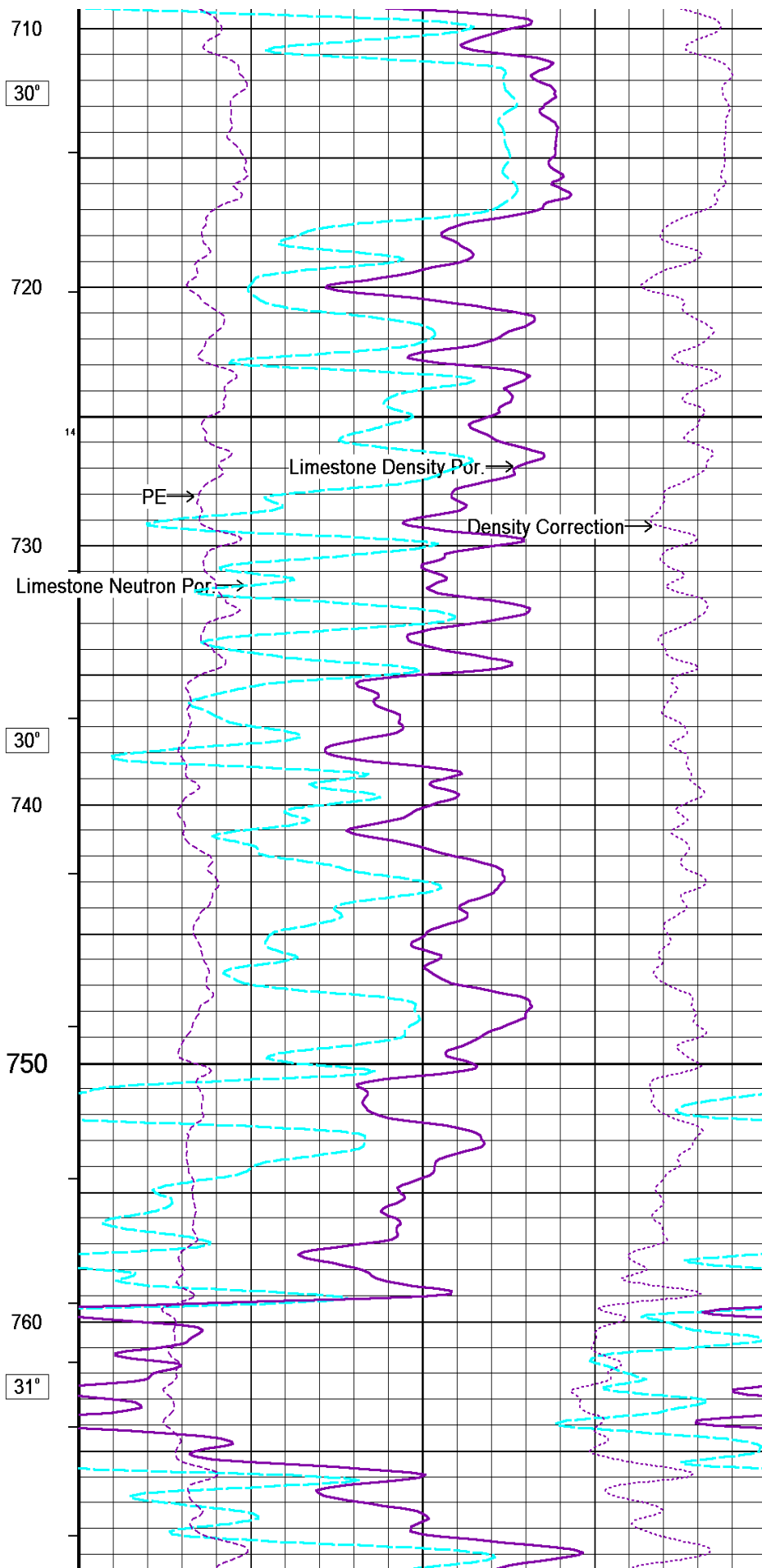
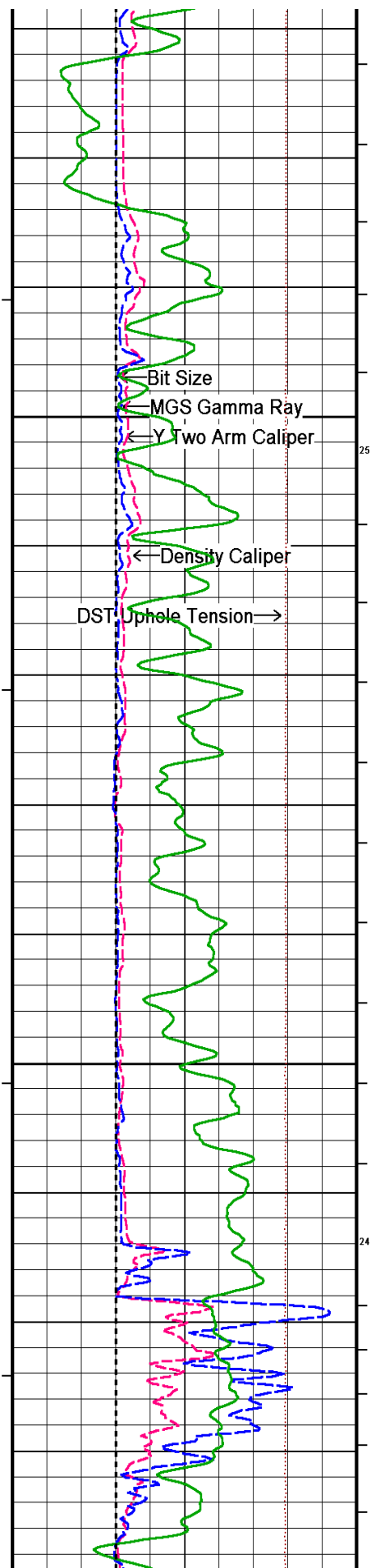


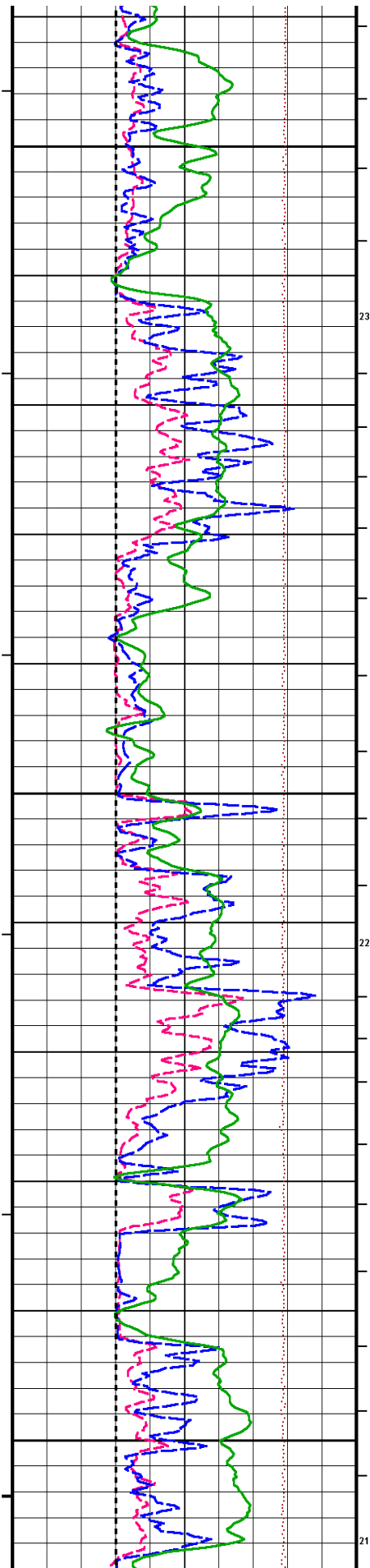












770

780

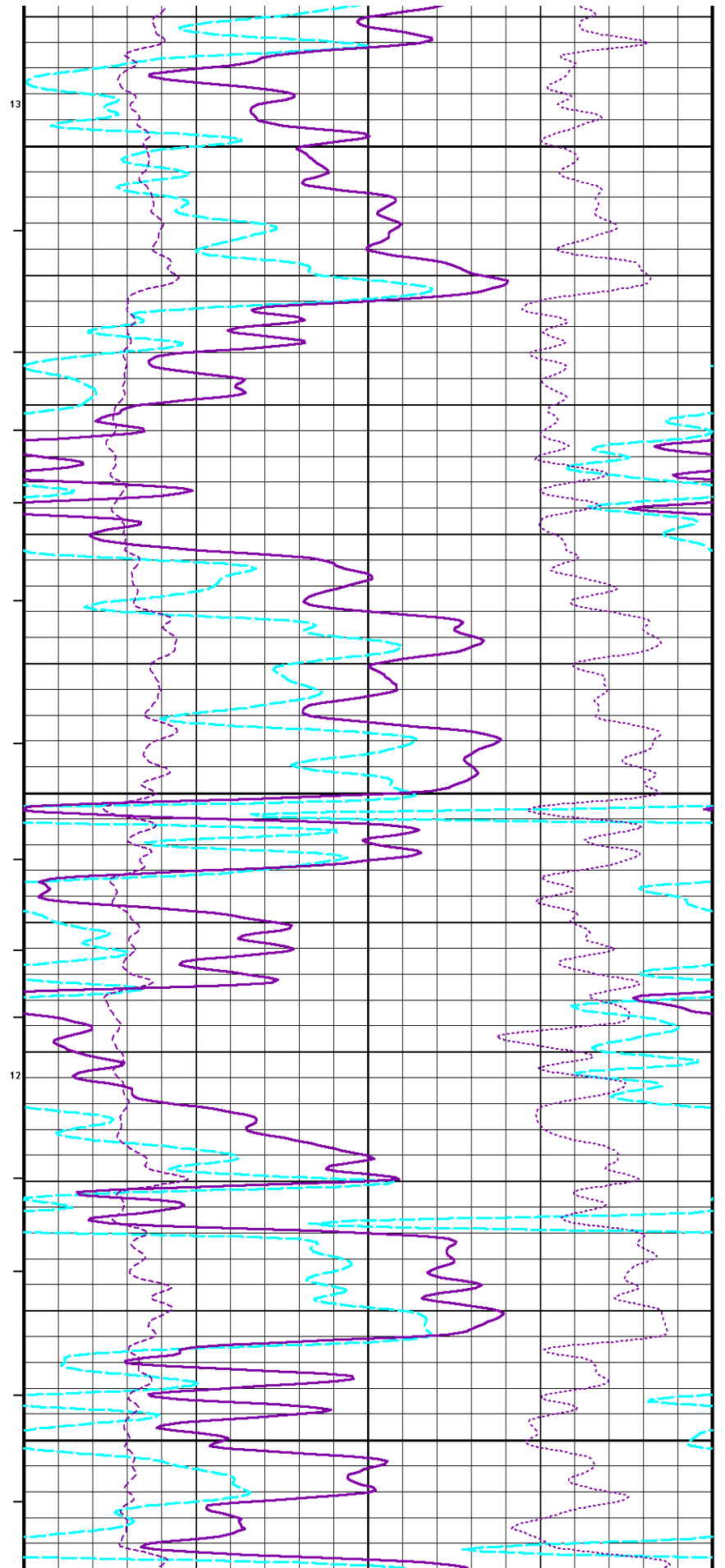
790

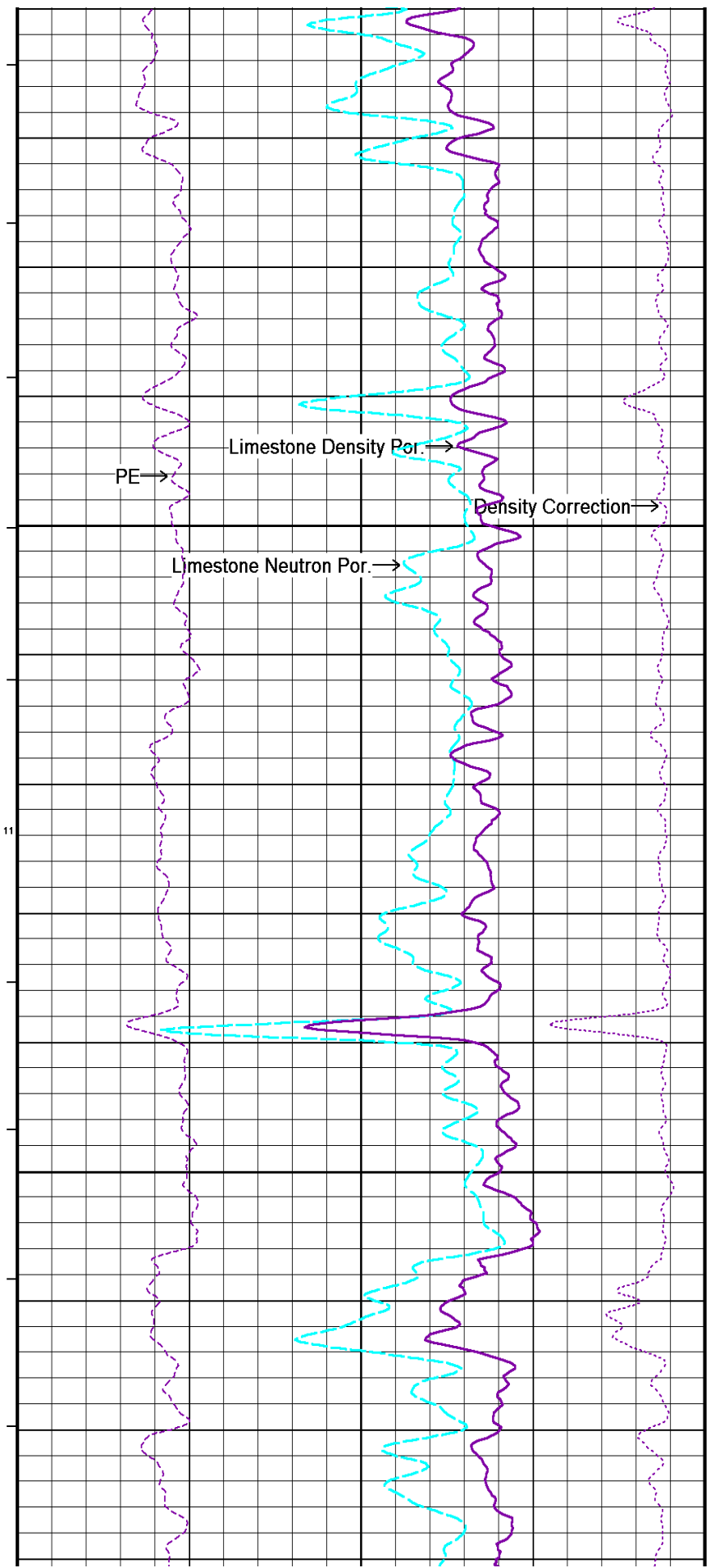
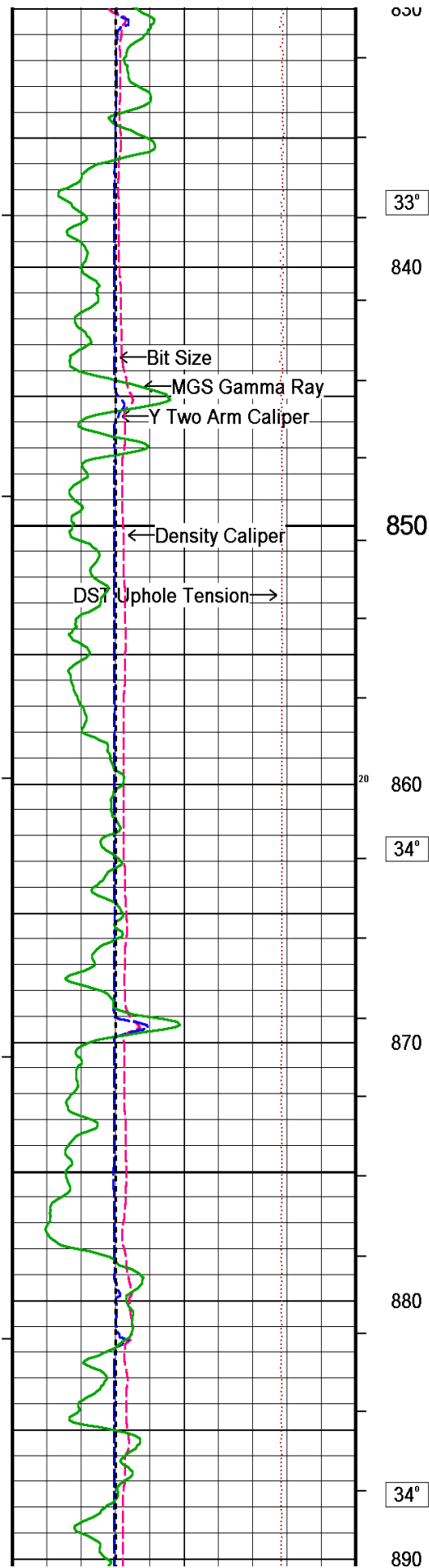
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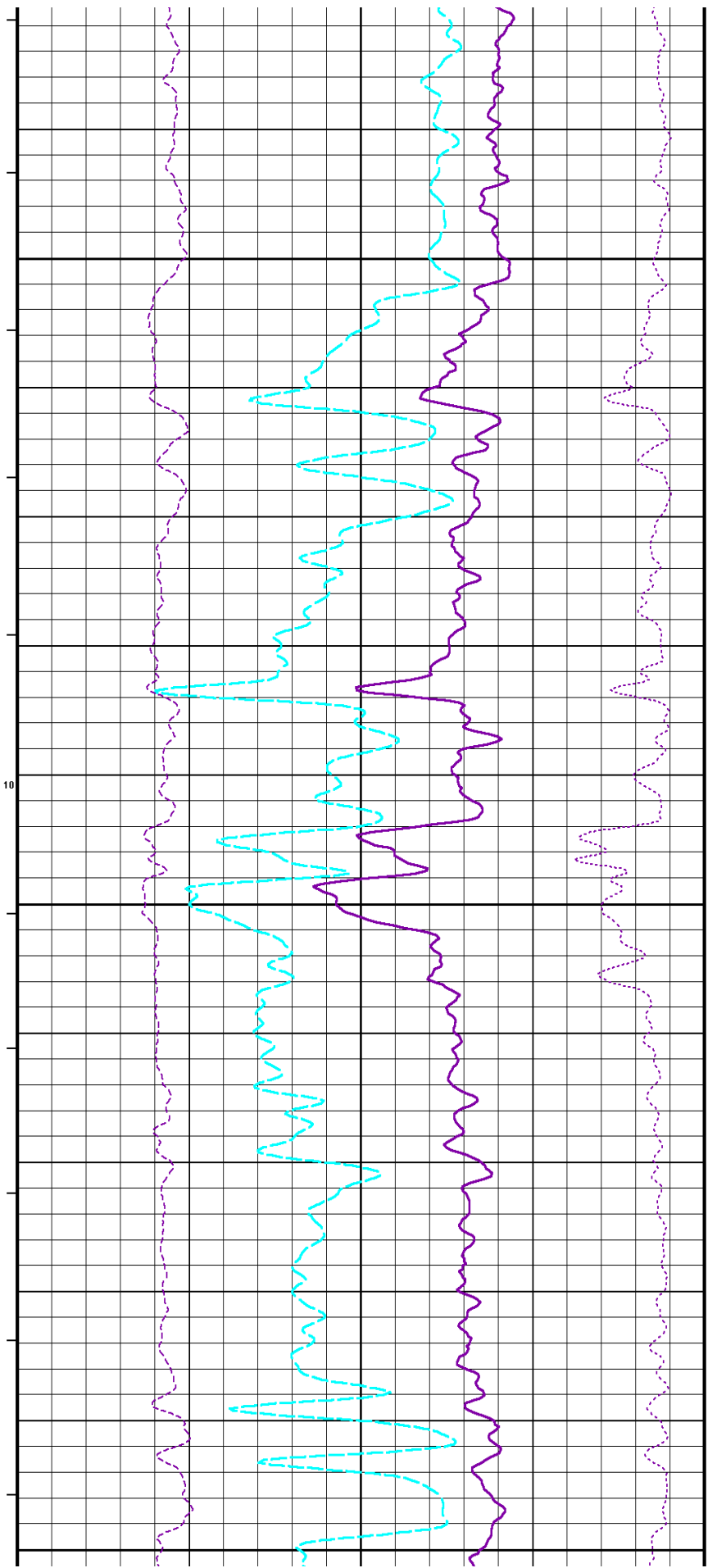
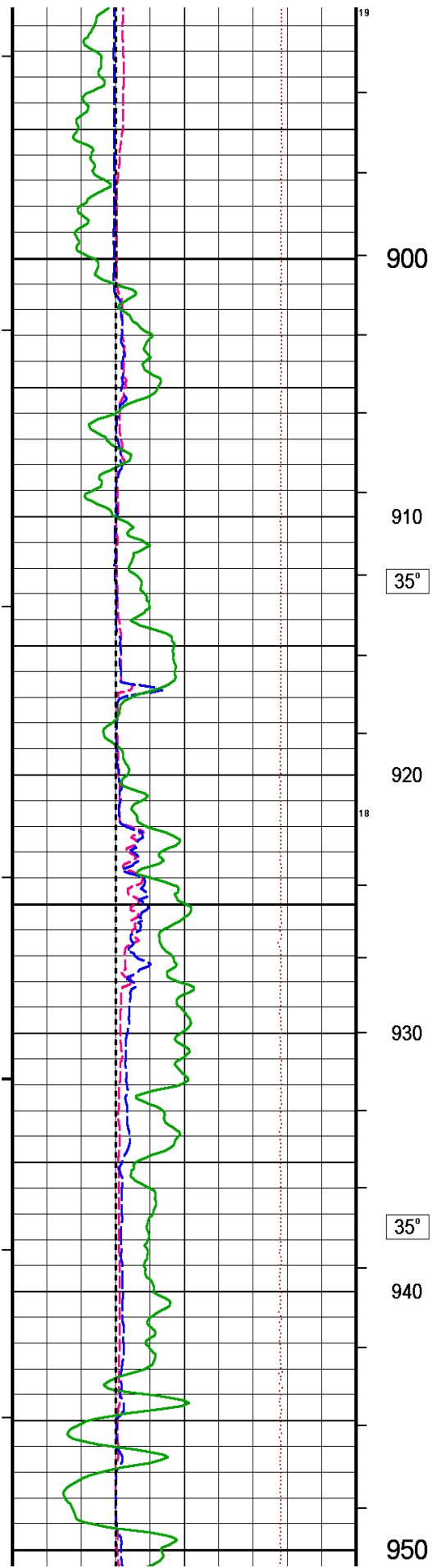
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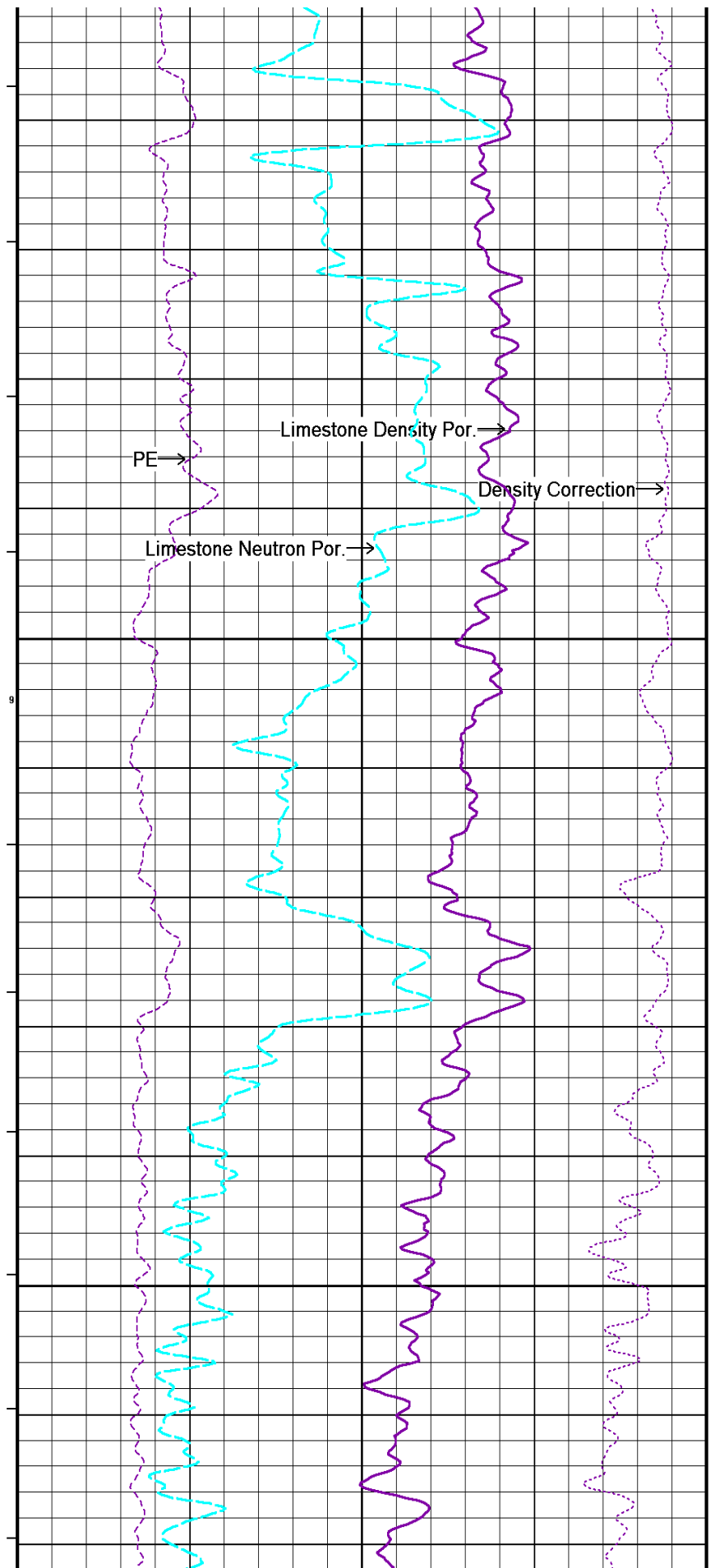
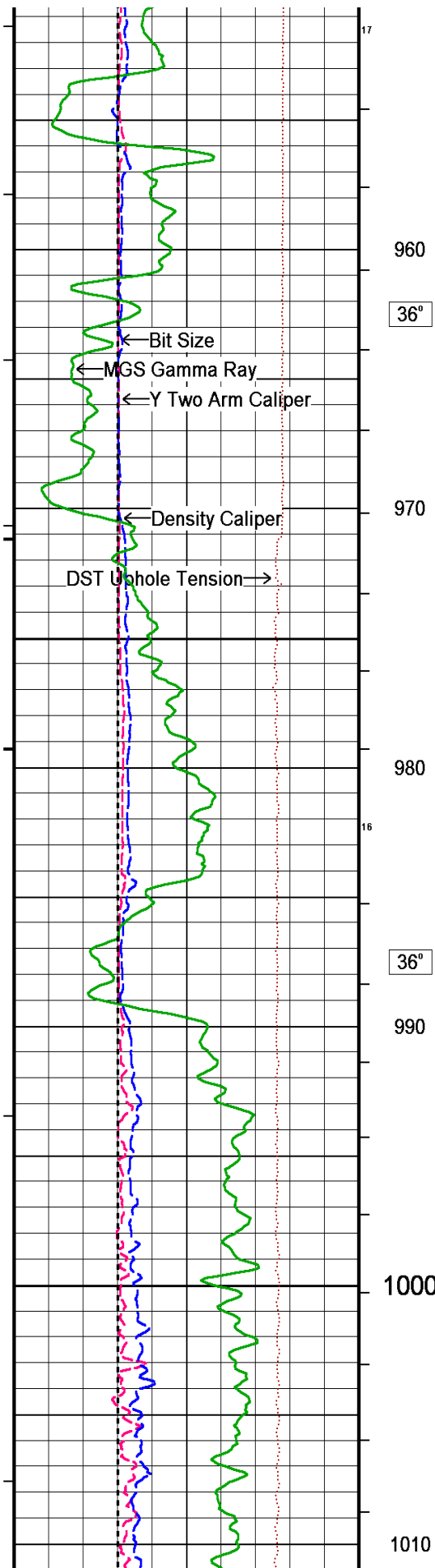
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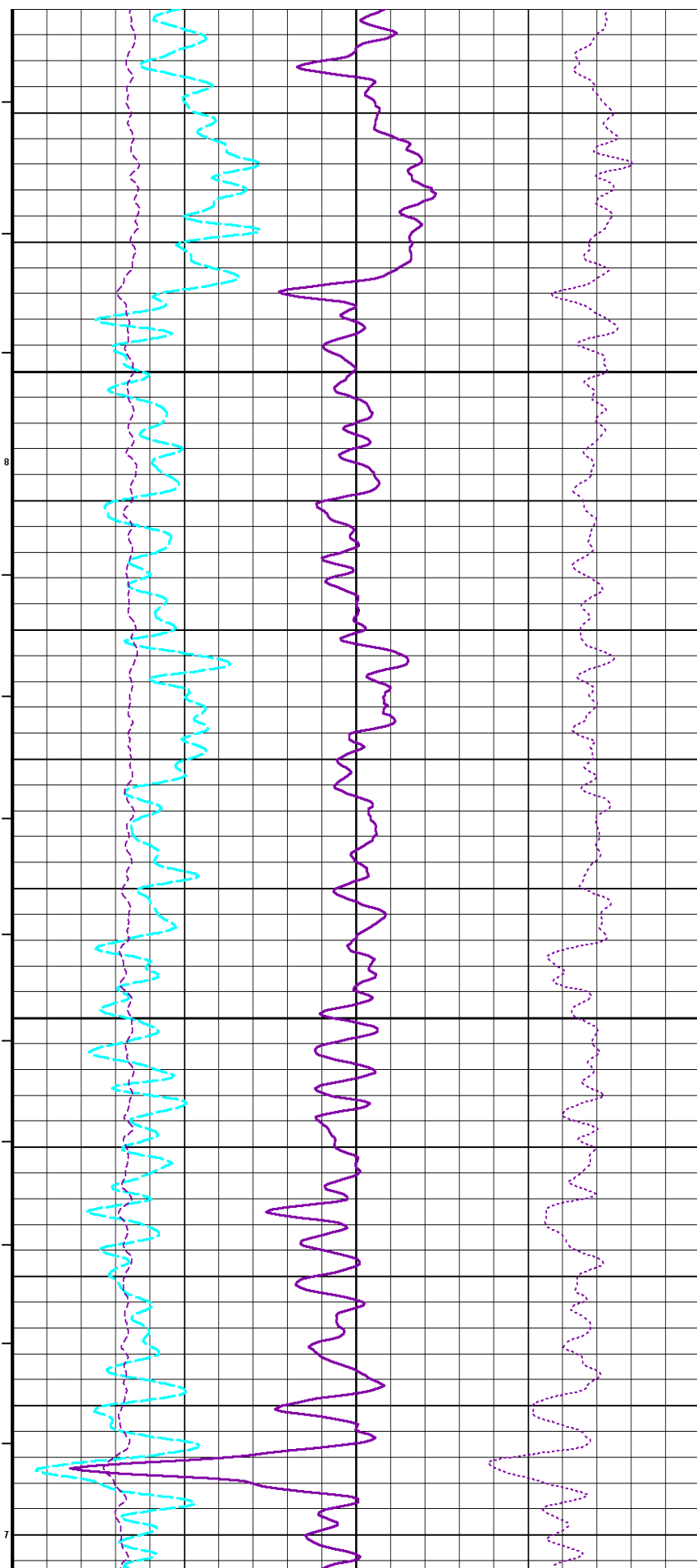
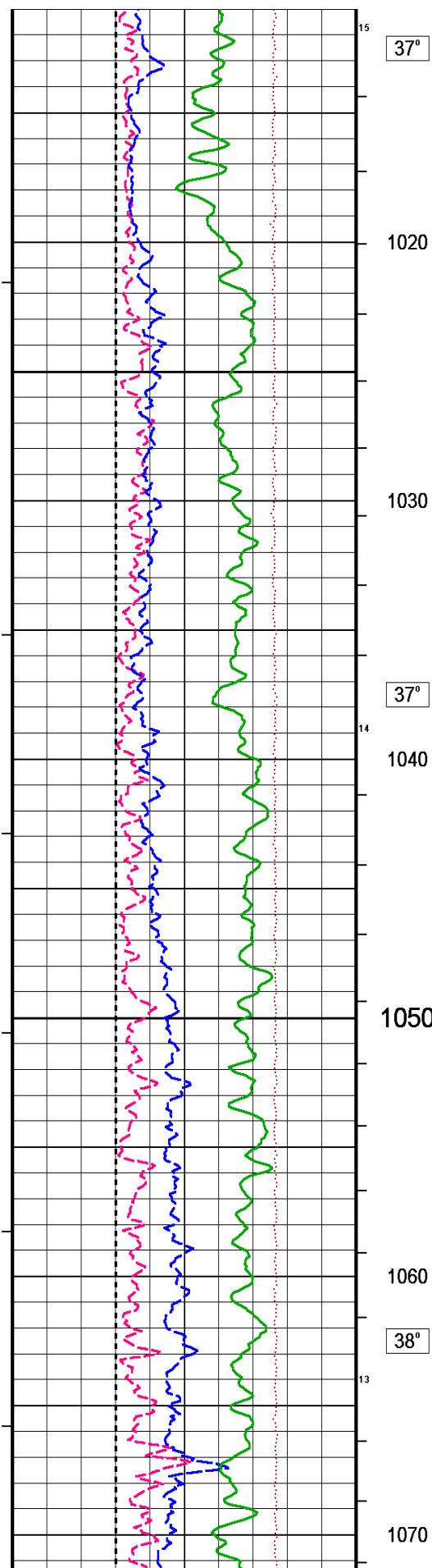
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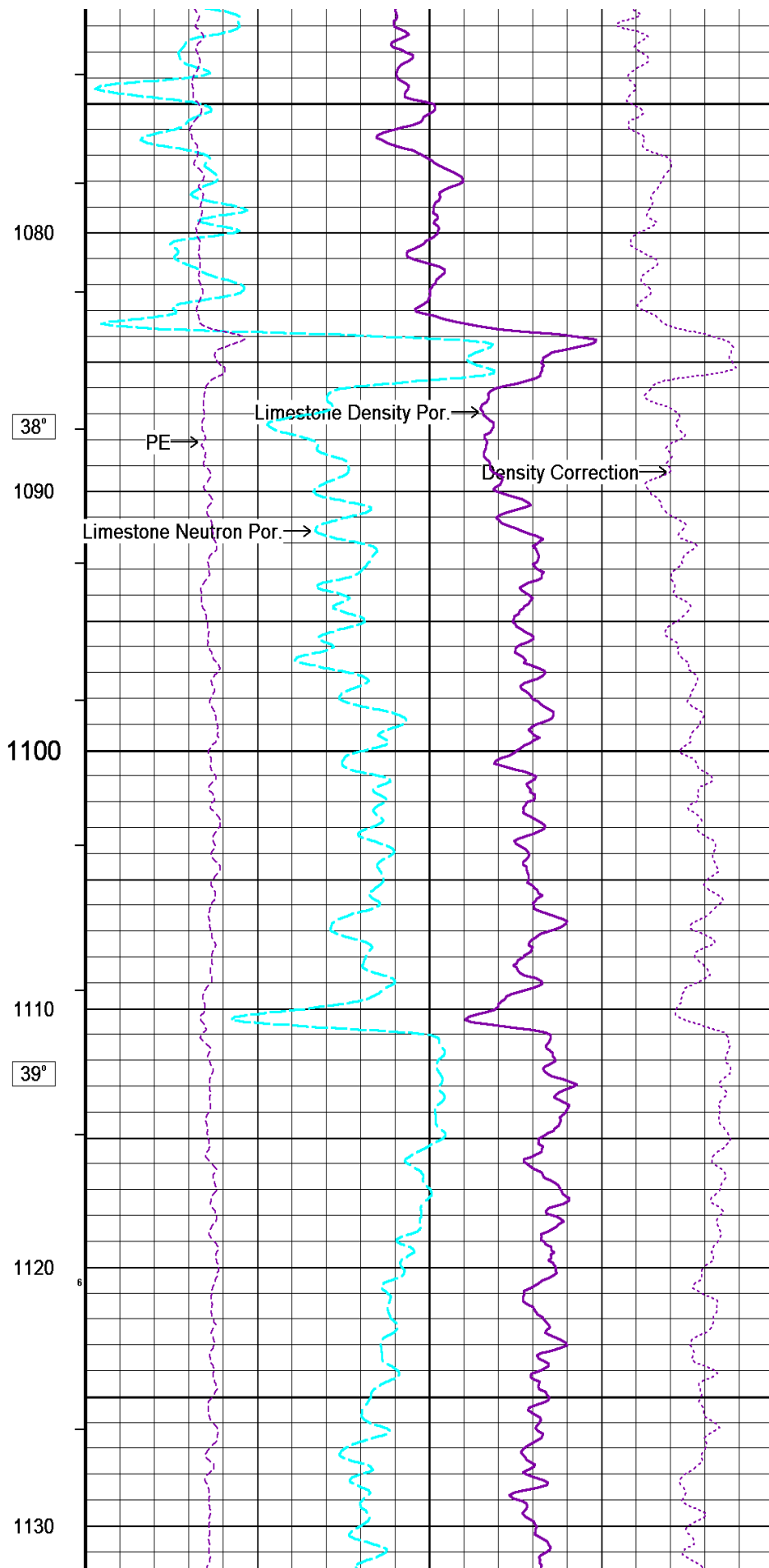
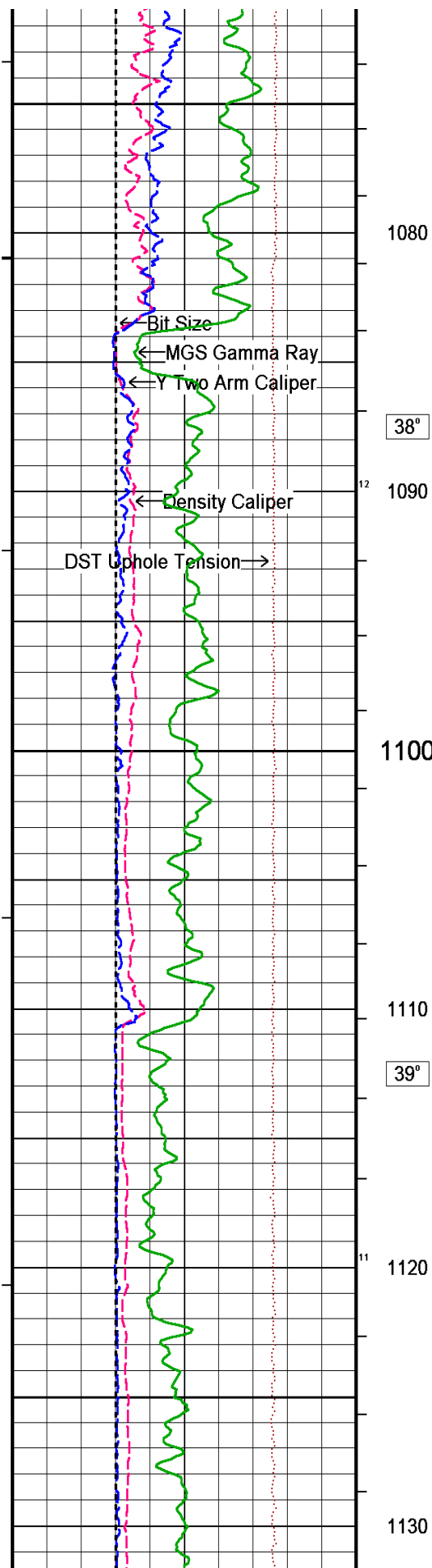


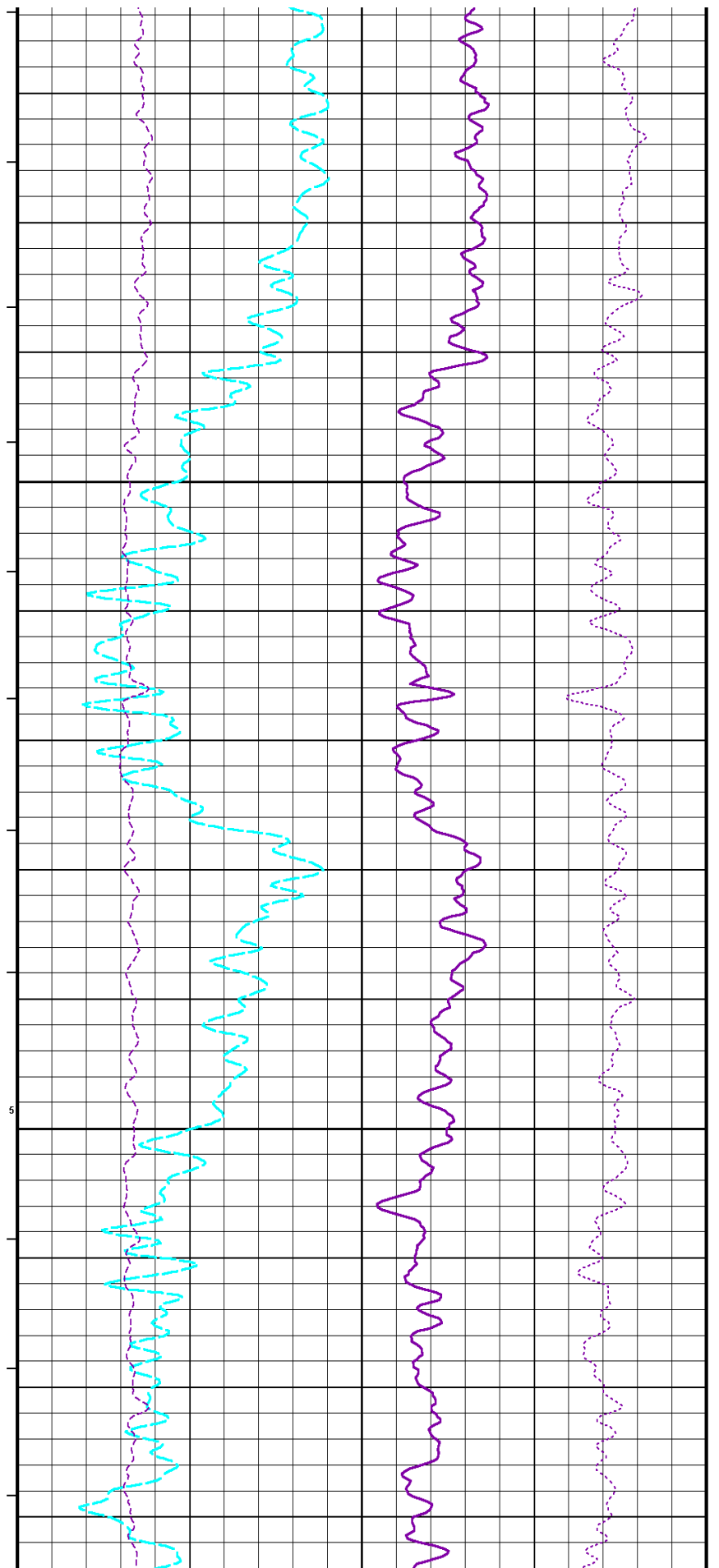
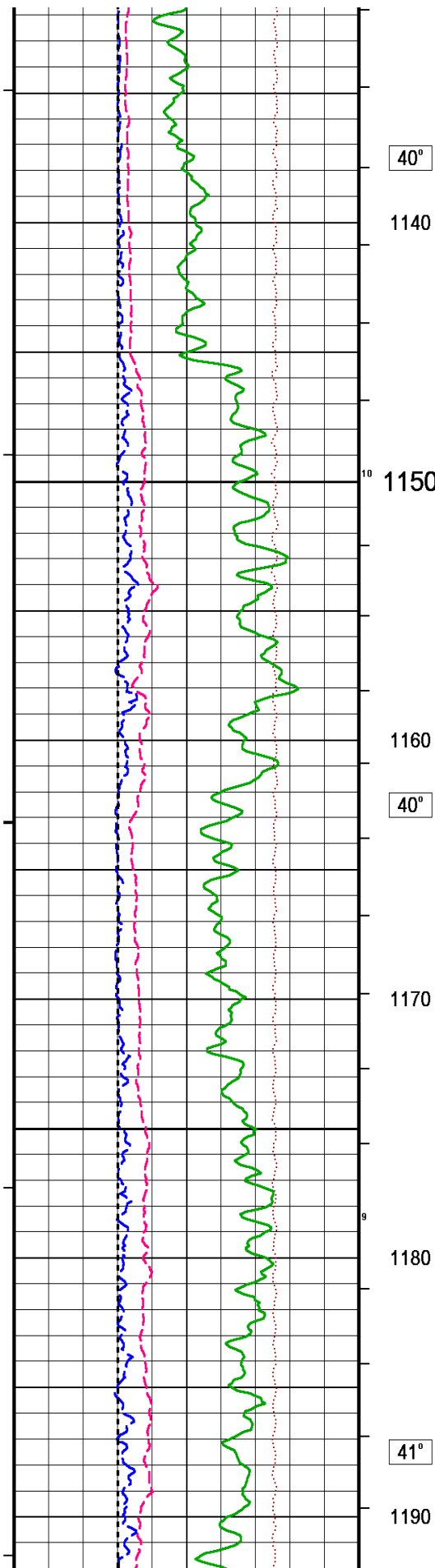


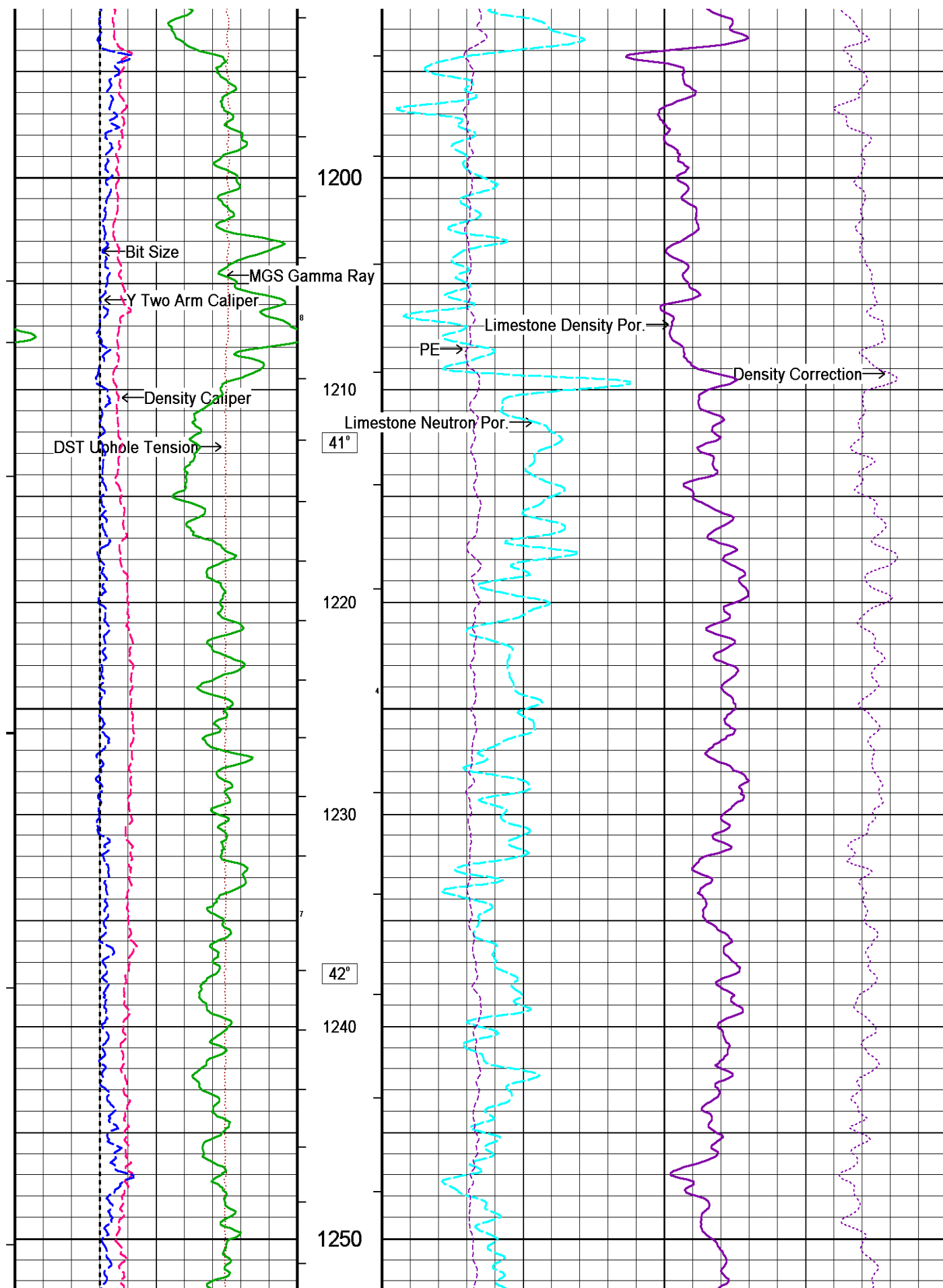


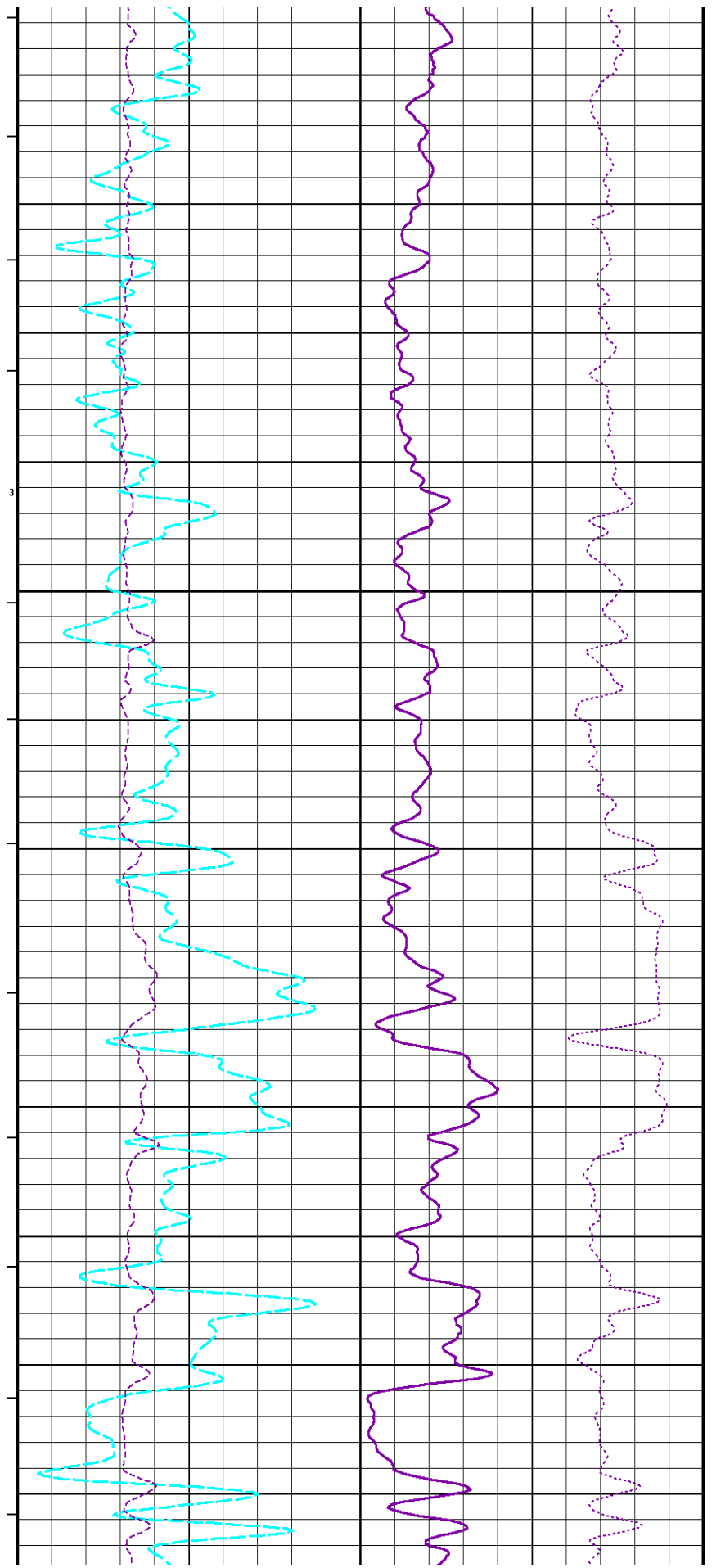
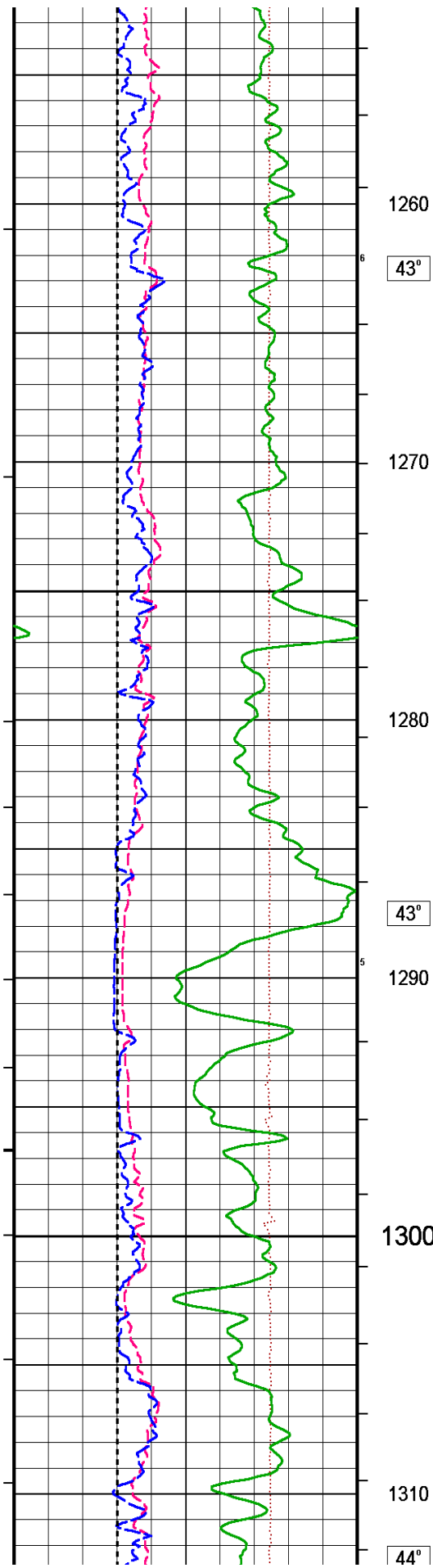


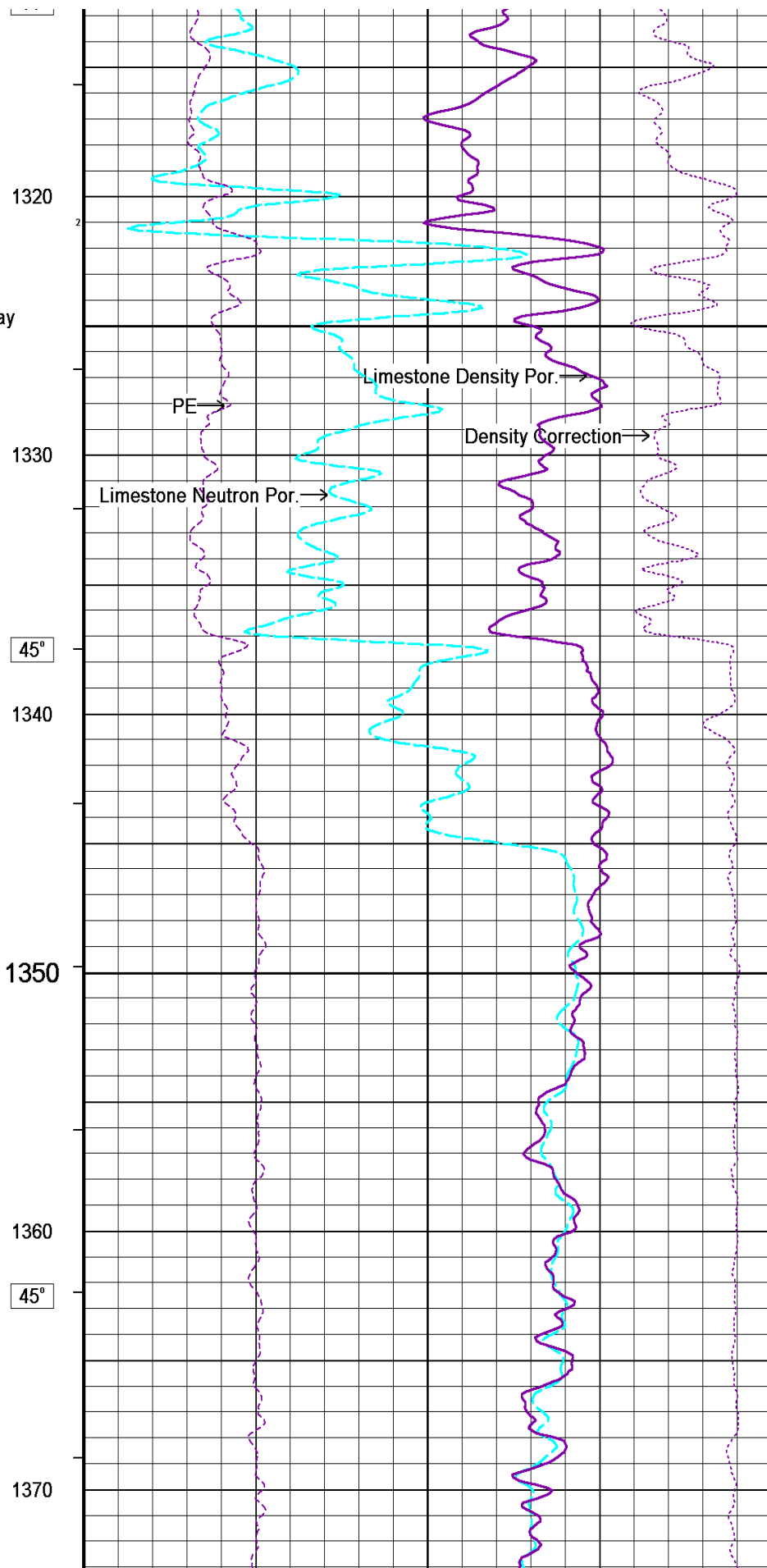
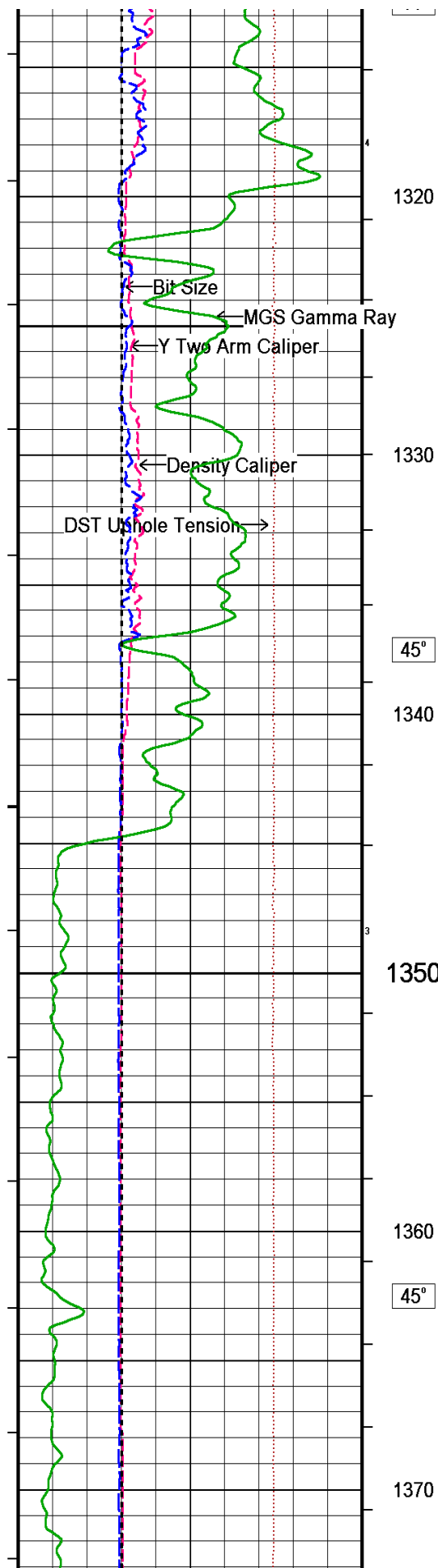


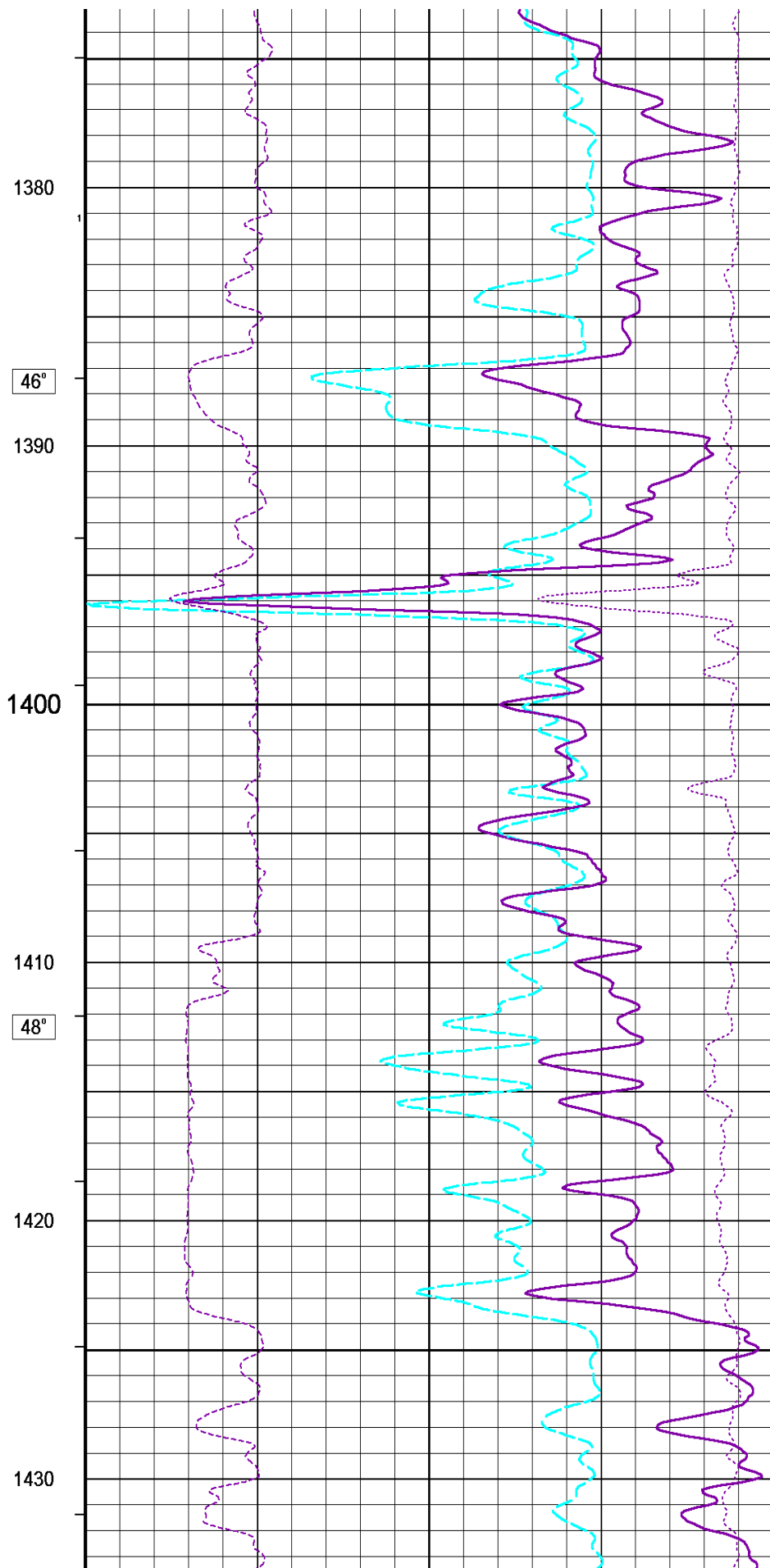
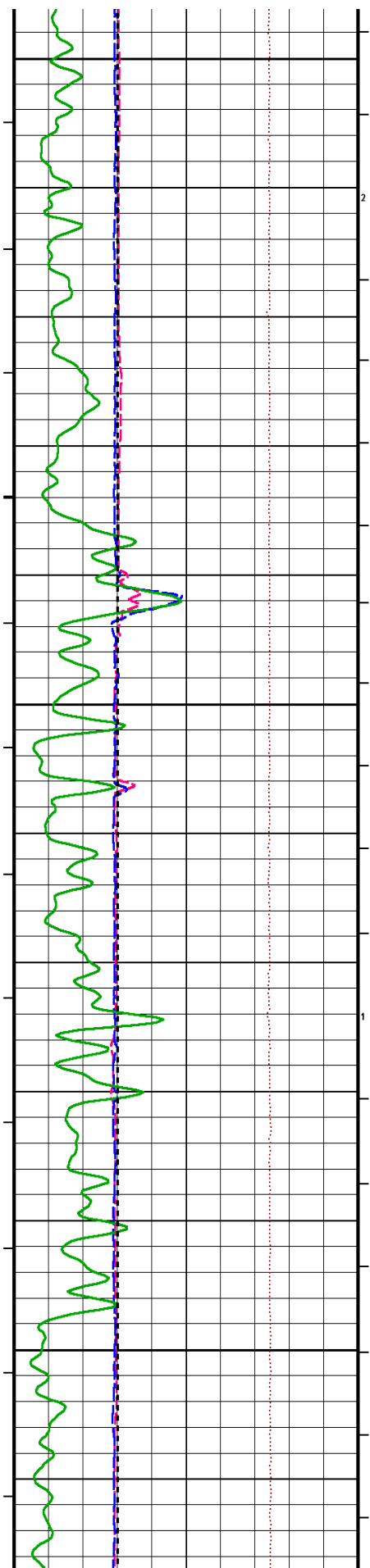


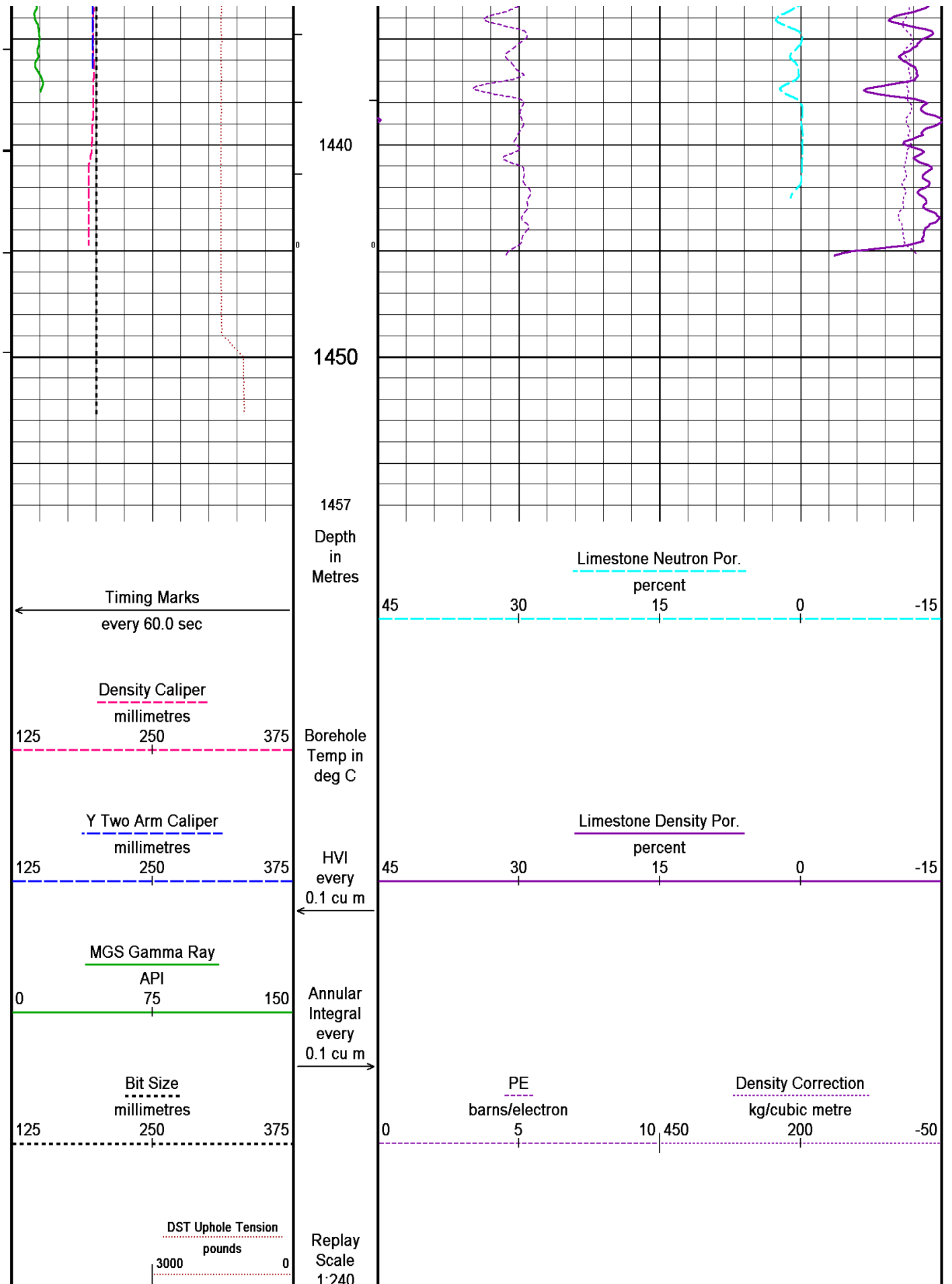












Depth Based Data - Maximum Sampling Increment 10.0cm

Filename: C:\Temp\Weatherford PreView\0\MAIN LOG.dta

System Versions: Processed with 8.00.0015 Plotted with 8.01.0091

Plotted on 12-NOV-2007 09:30

Recorded on 15-FEB-2007 08:46



LIMESTONE MAINLOG



LIMESTONE REPEAT SANDSTONE MAINLOG



Depth Based Data - Maximum Sampling Increment 10.0cm

Filename: C:\Temp\Weatherford PreView\0\REPEAT.dta

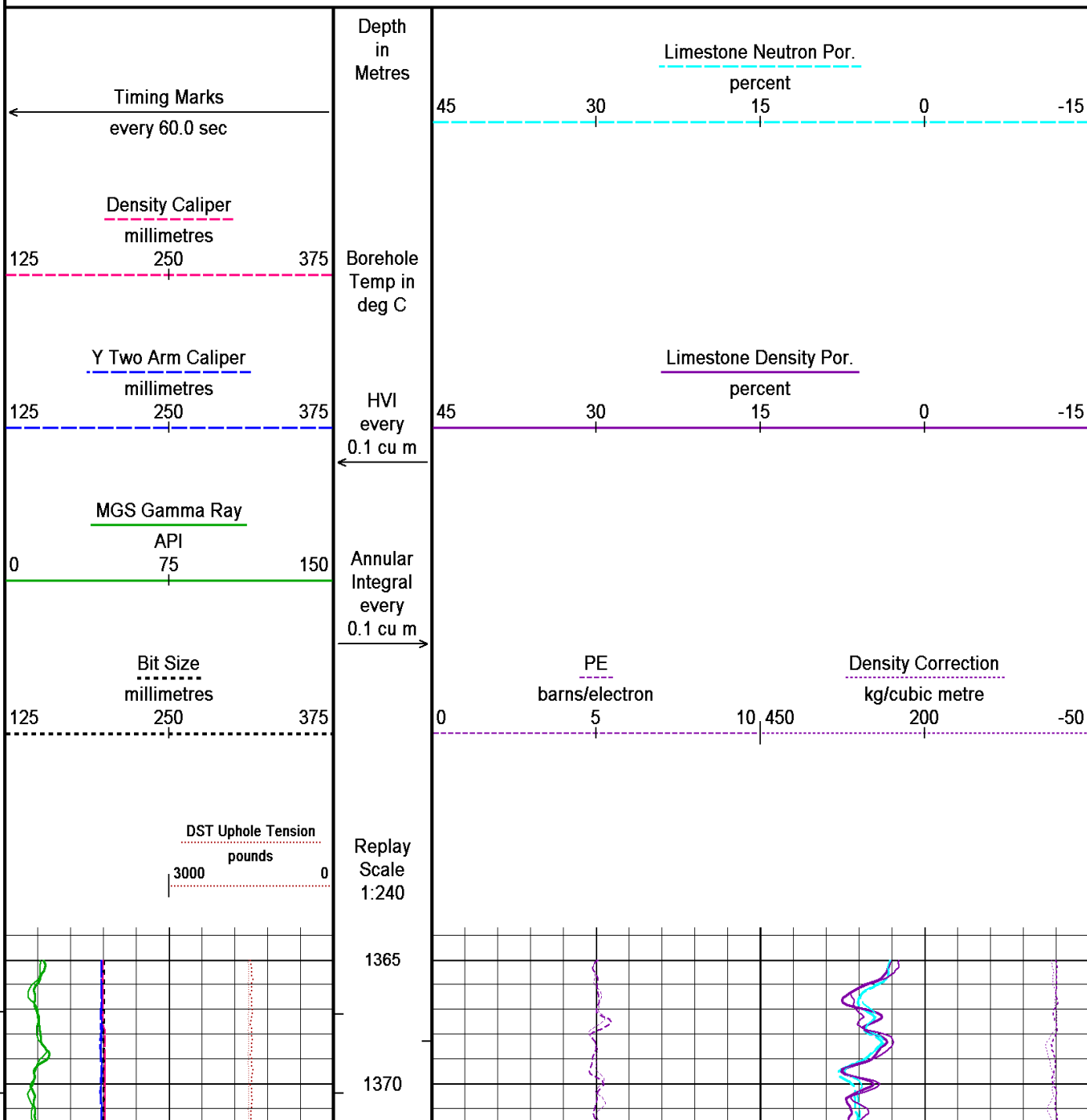
Filename: C:\Temp\Weatherford PreView\0\MAIN LOG.dta

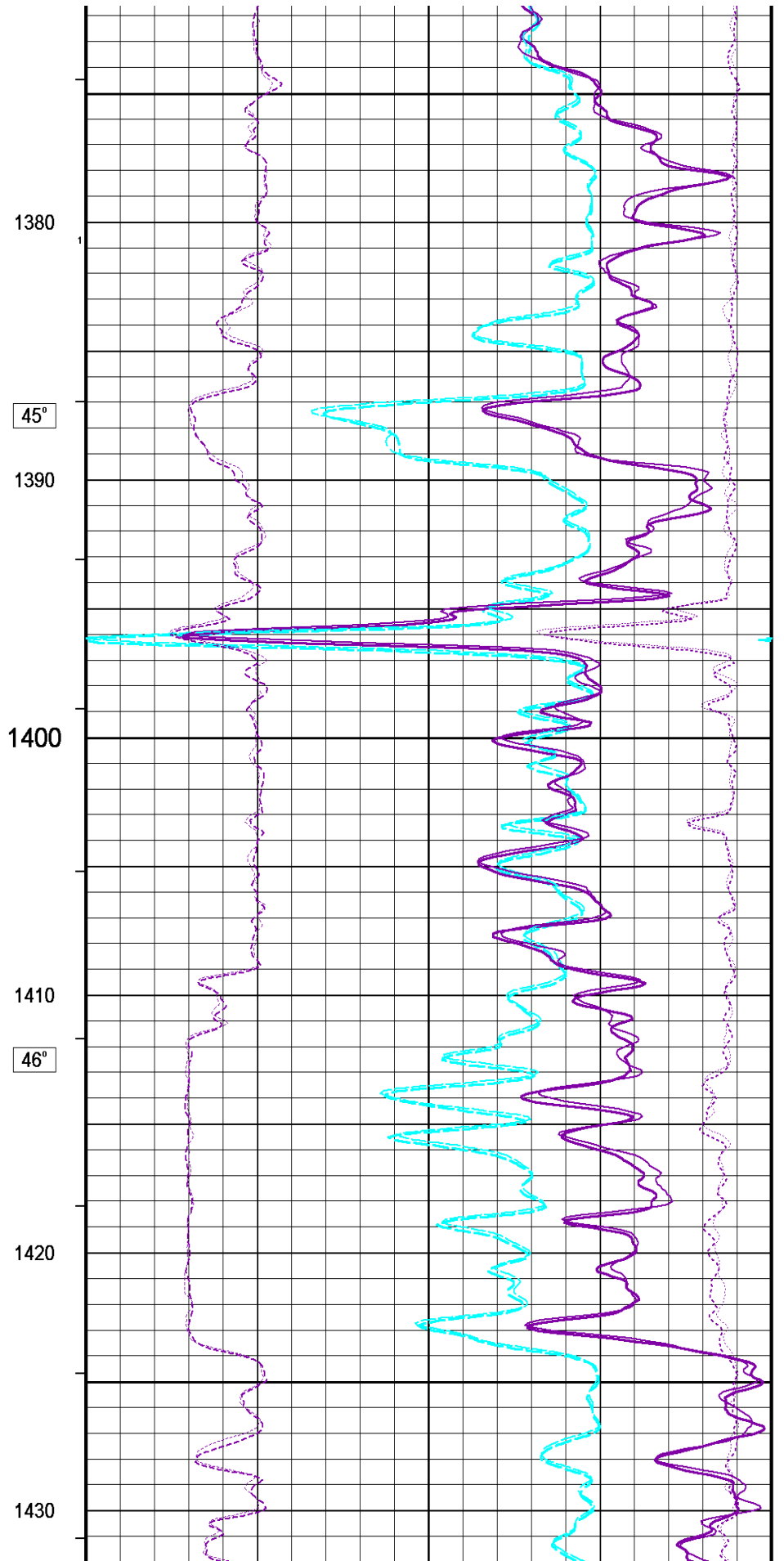
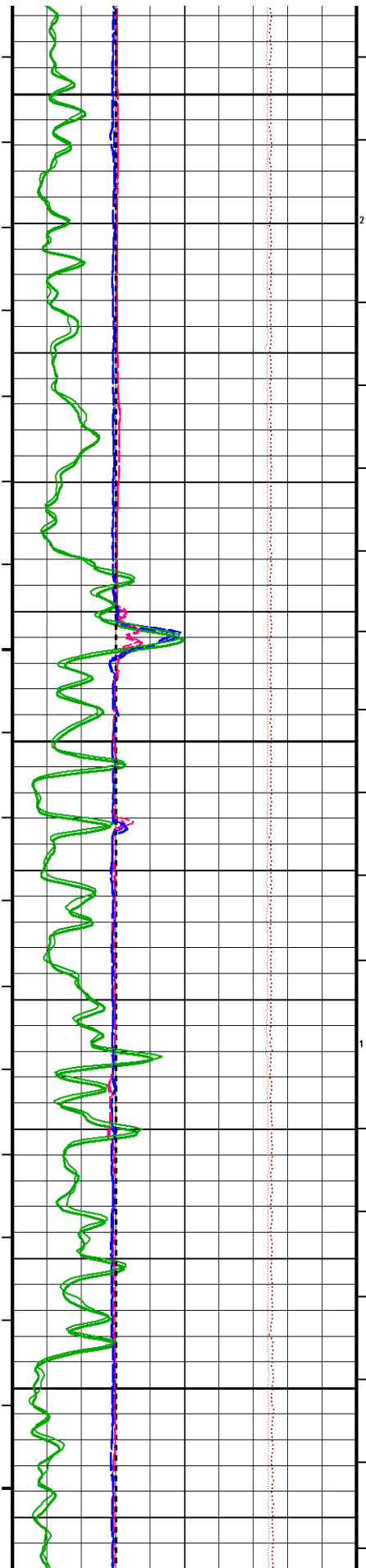
System Versions: Logged with 7.01.0195 Processed with 8.00.0015 Plotted with 8.01.0091

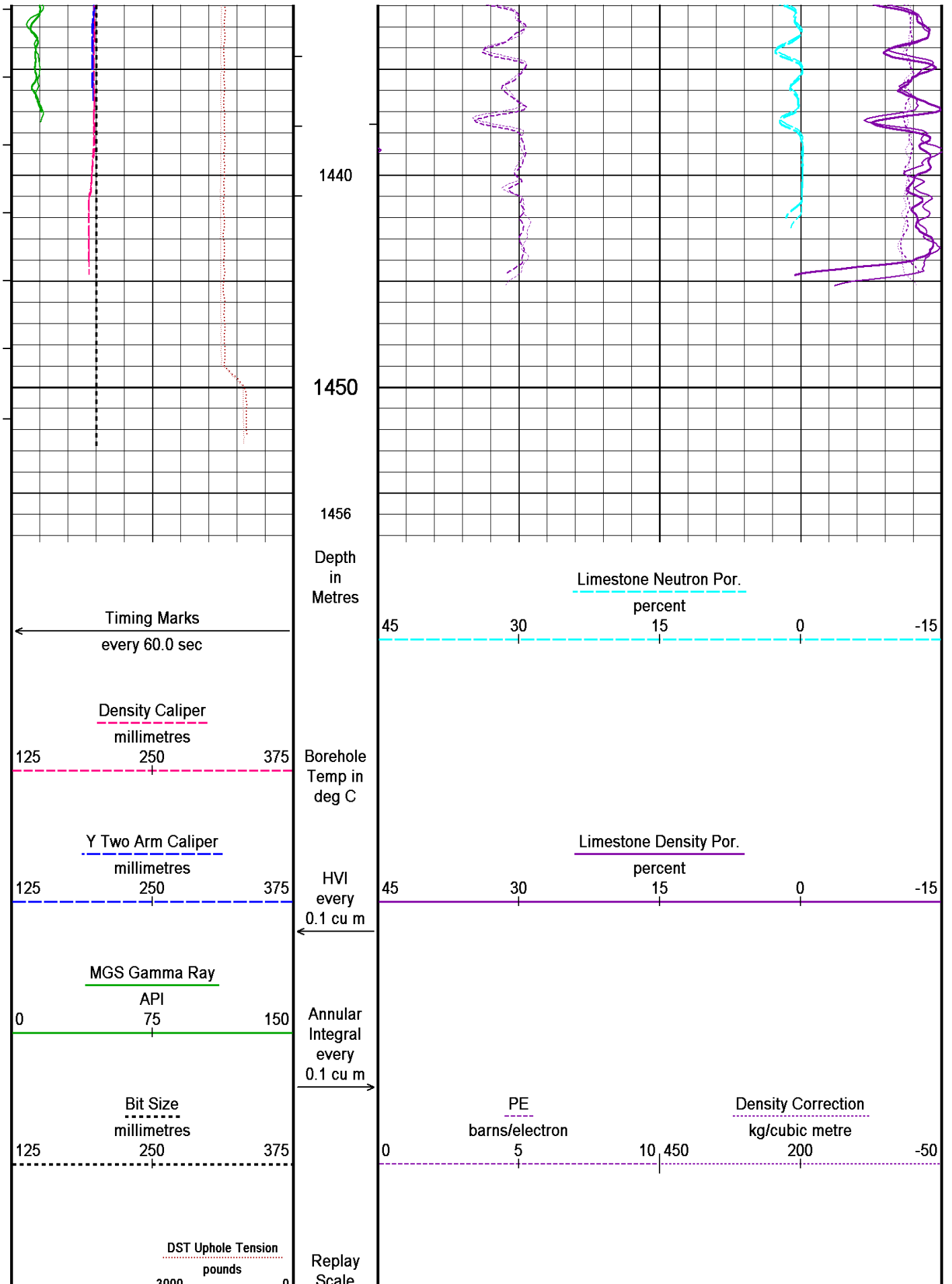
Plotted on 12-NOV-2007 09:30

Recorded on 15-FEB-2007 07:26

Recorded on 15-FEB-2007 08:46







5000

1:240

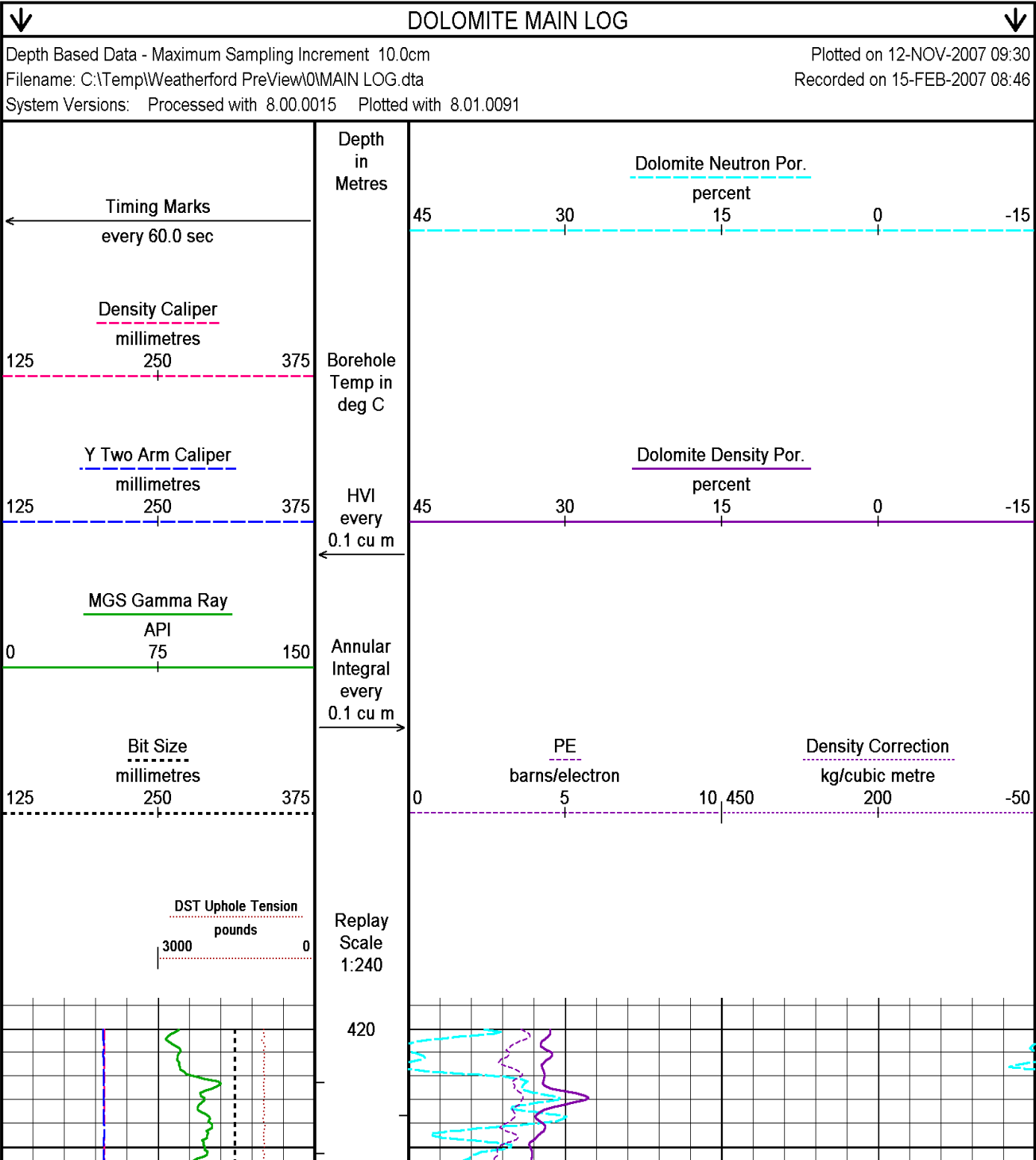
Depth Based Data - Maximum Sampling Increment 10.0cm
Filename: C:\Temp\Weatherford PreView\0\REPEAT.dta
Filename: C:\Temp\Weatherford PreView\0\MAIN LOG.dta
System Versions: Logged with 7.01.0195 Processed with 8.00.0015 Plotted with 8.01.0091

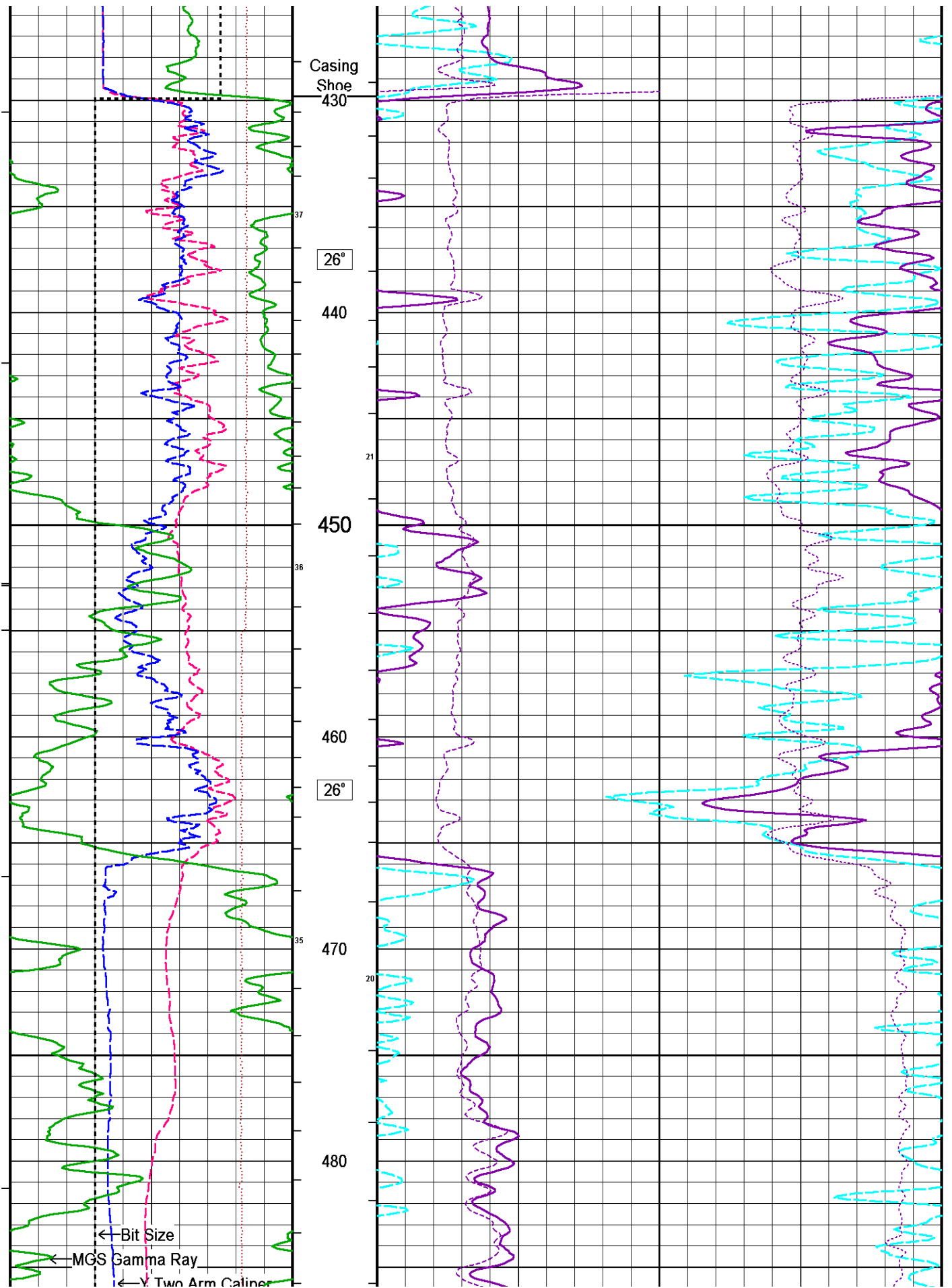
Plotted on 12-NOV-2007 09:30
Recorded on 15-FEB-2007 07:26
Recorded on 15-FEB-2007 08:46

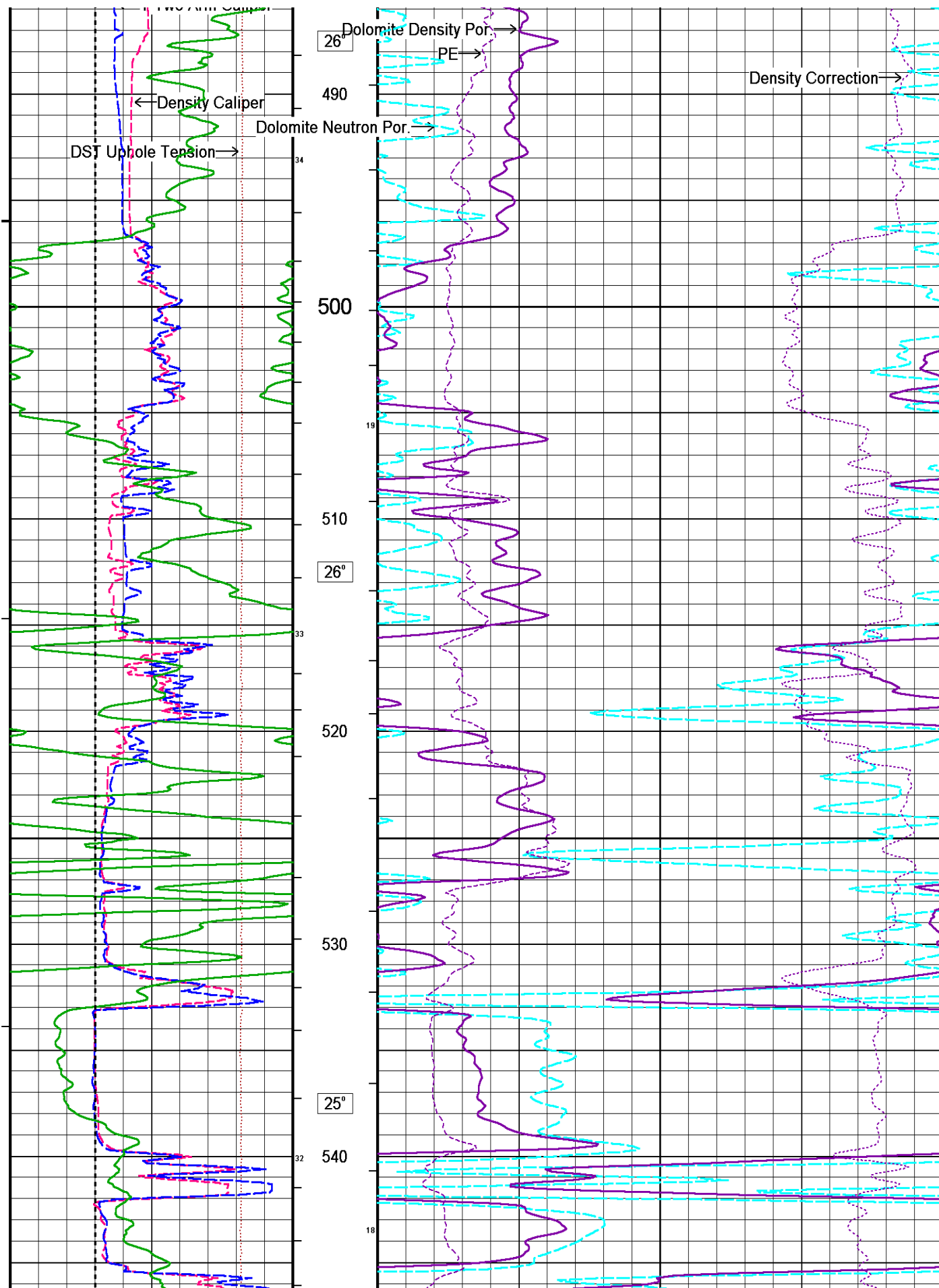
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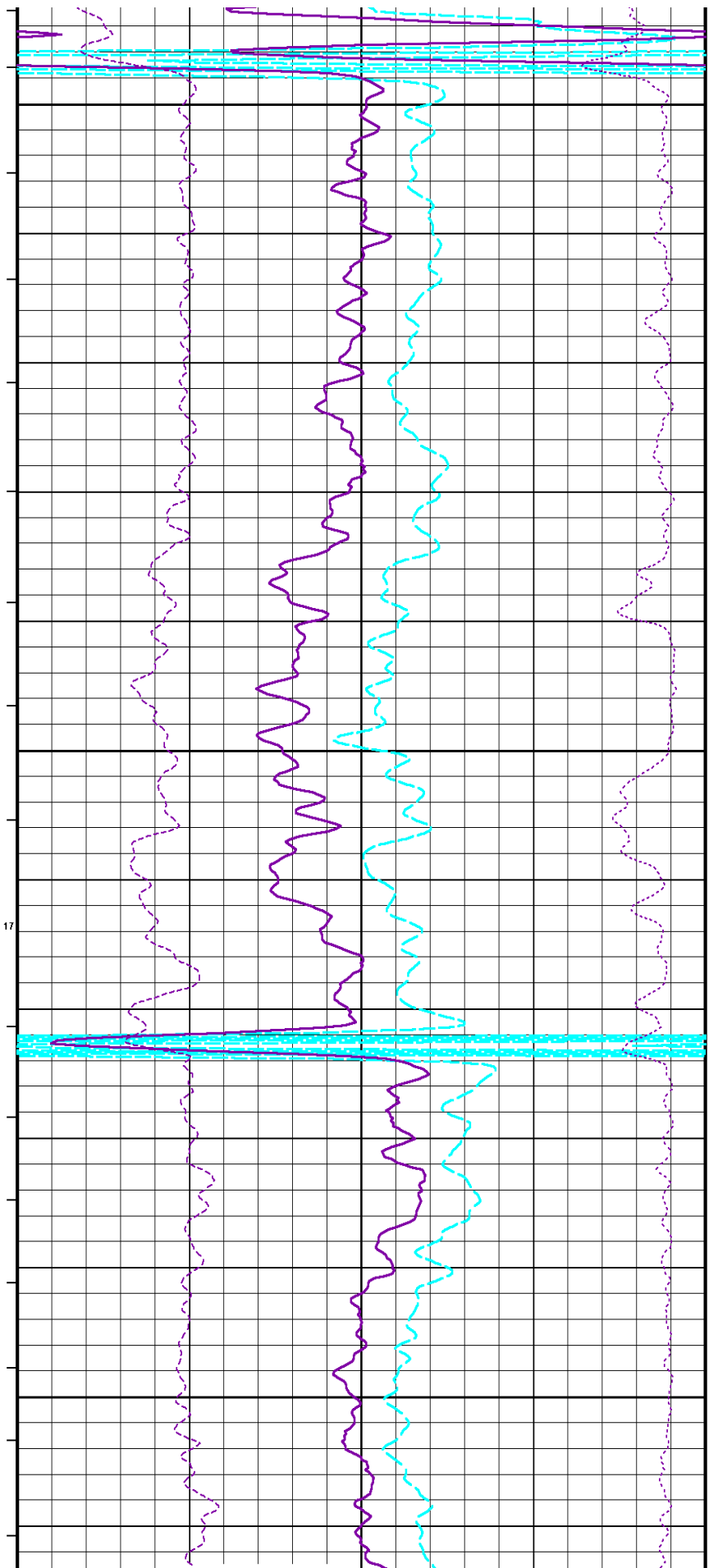
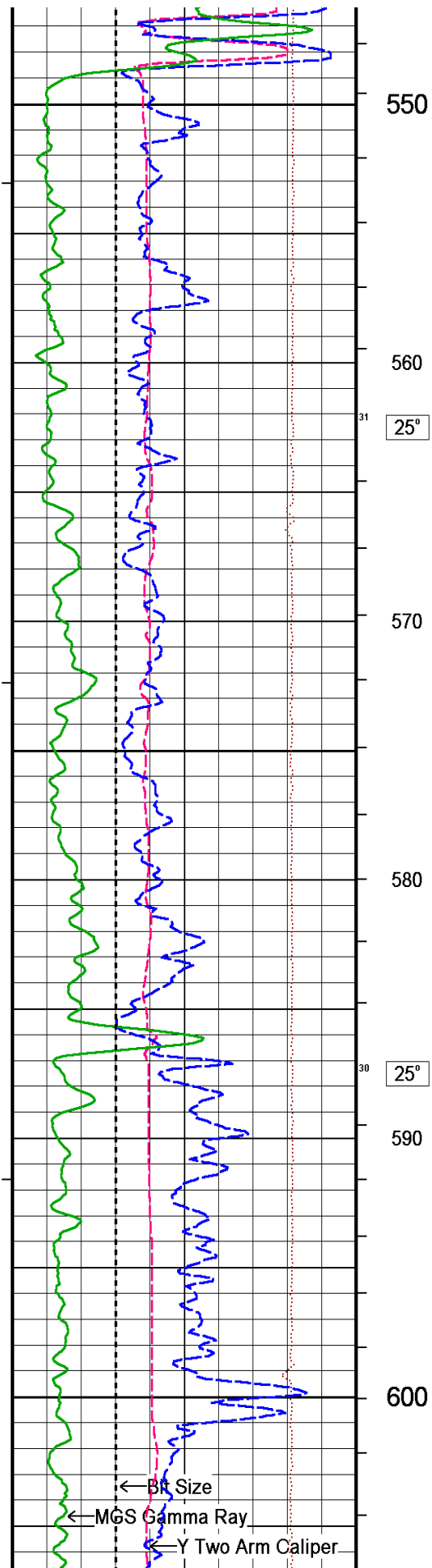
LIMESTONE REPEAT
SANDSTONE MAINLOG

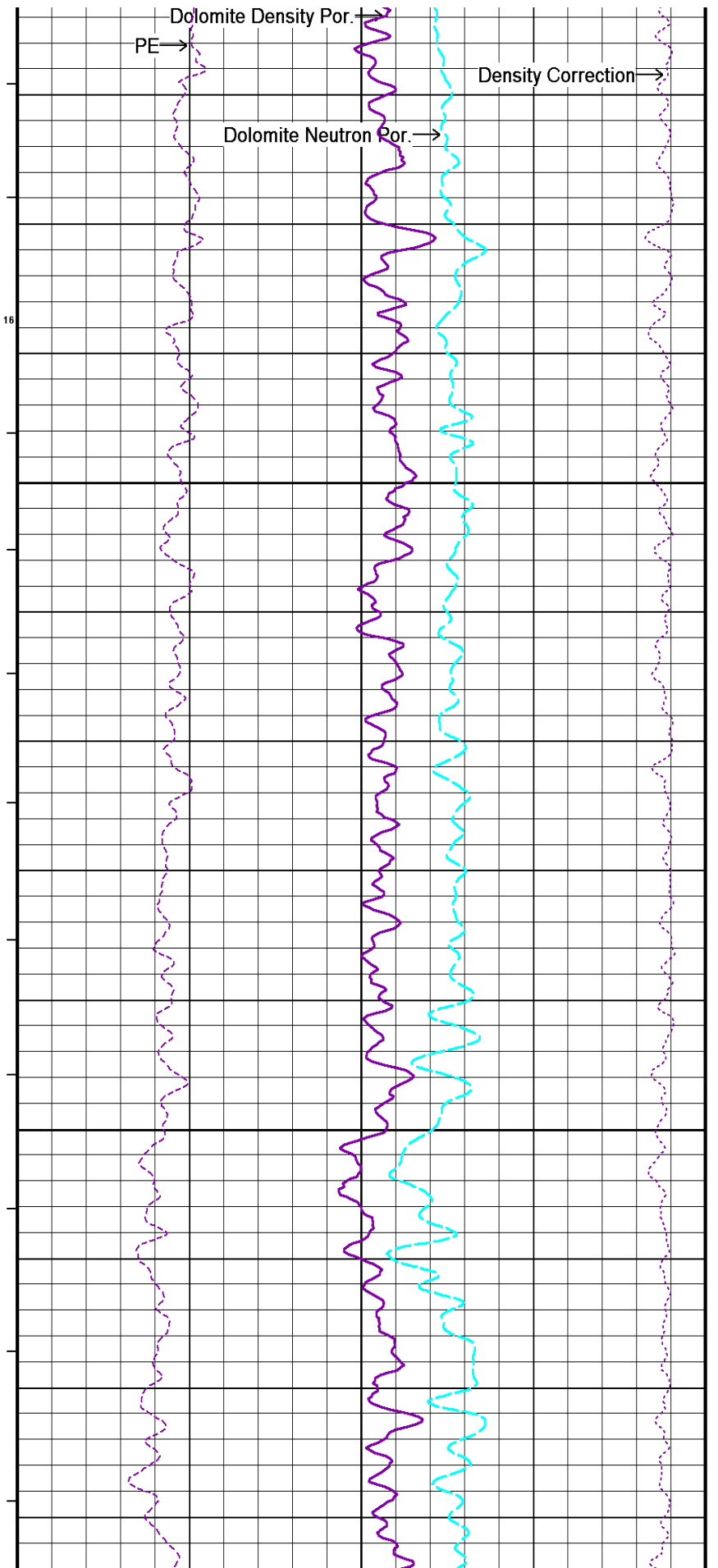
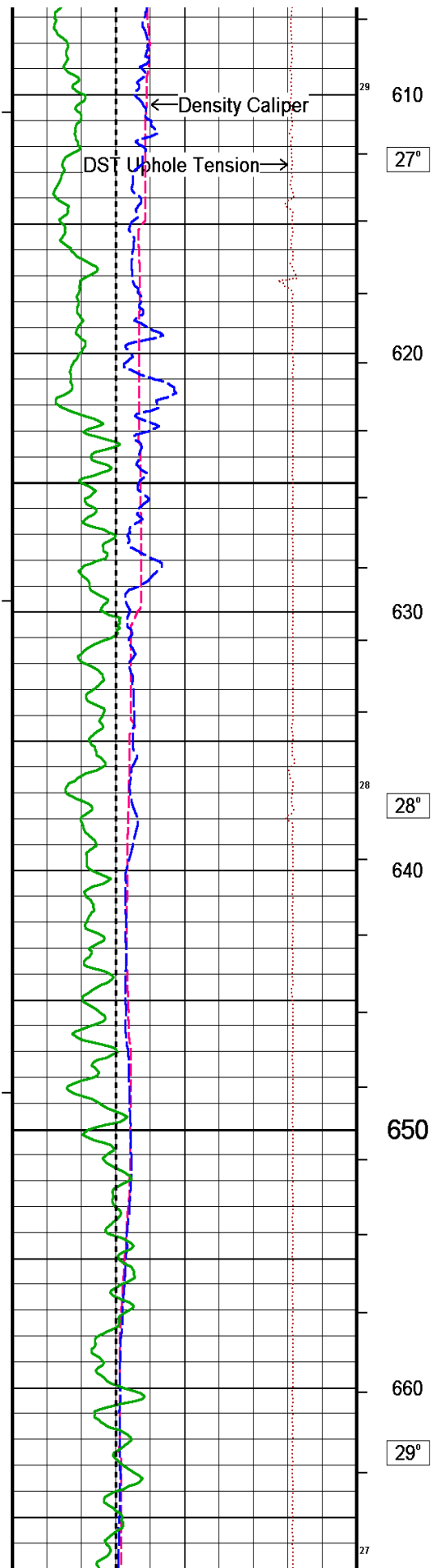
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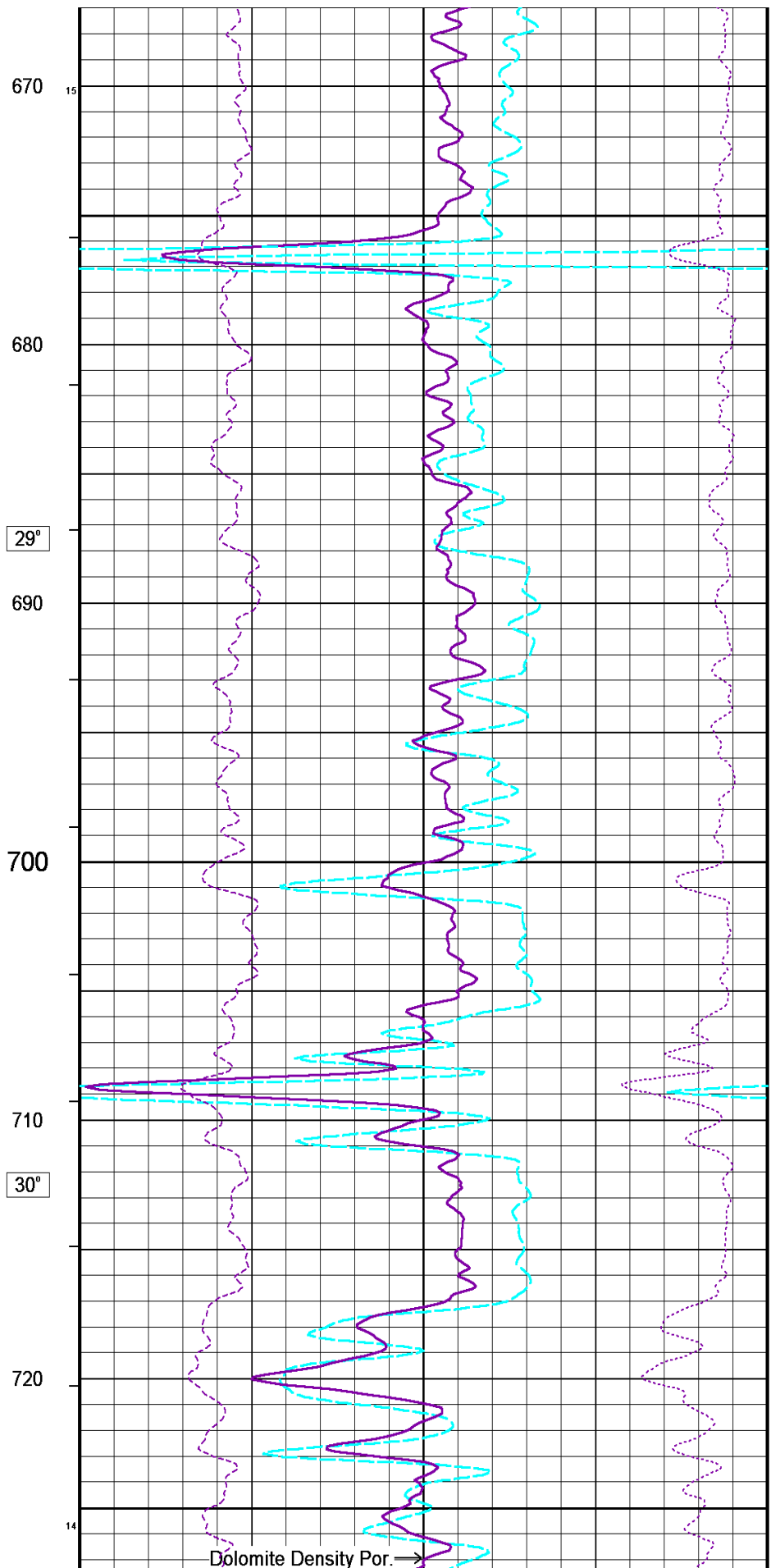
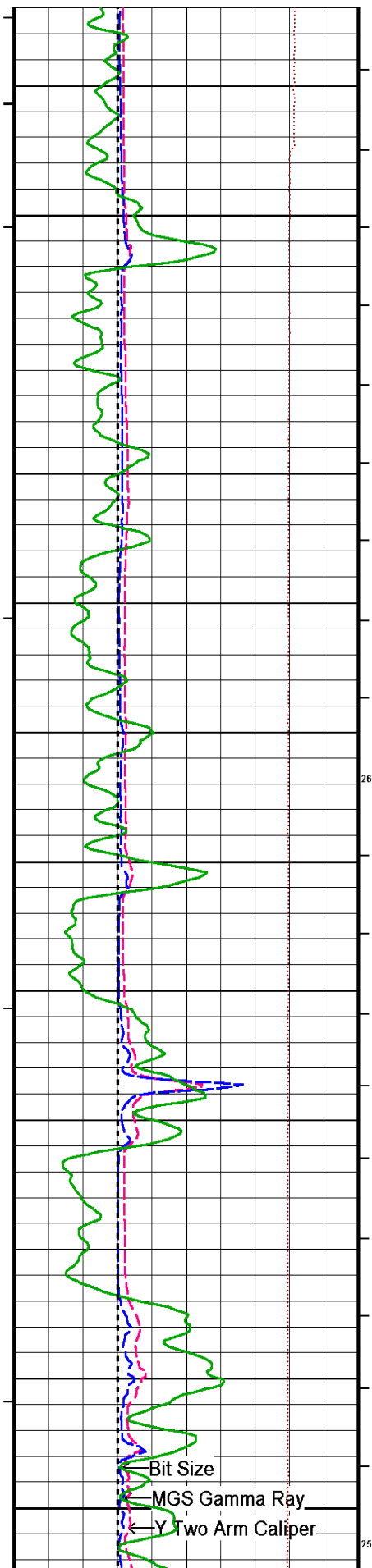


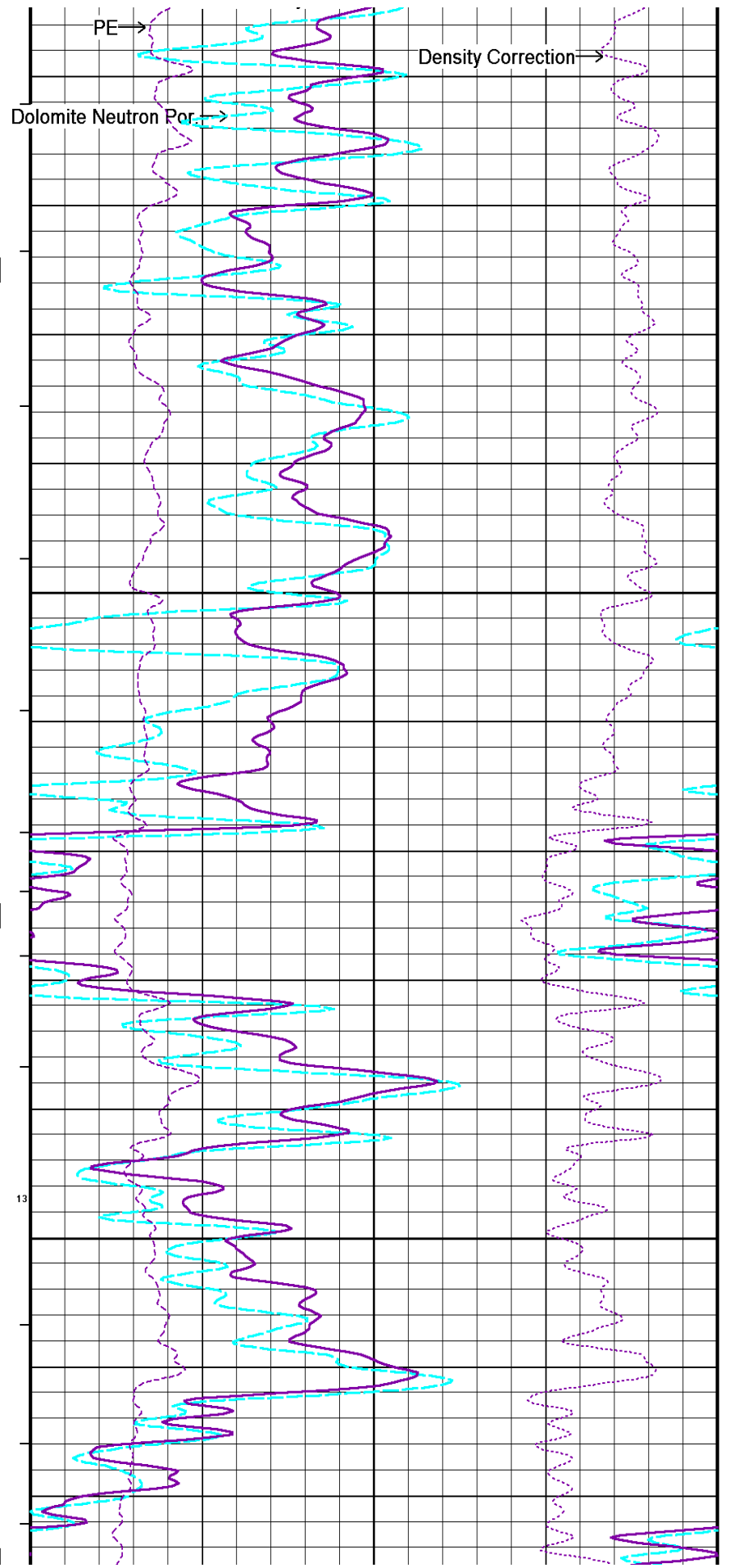
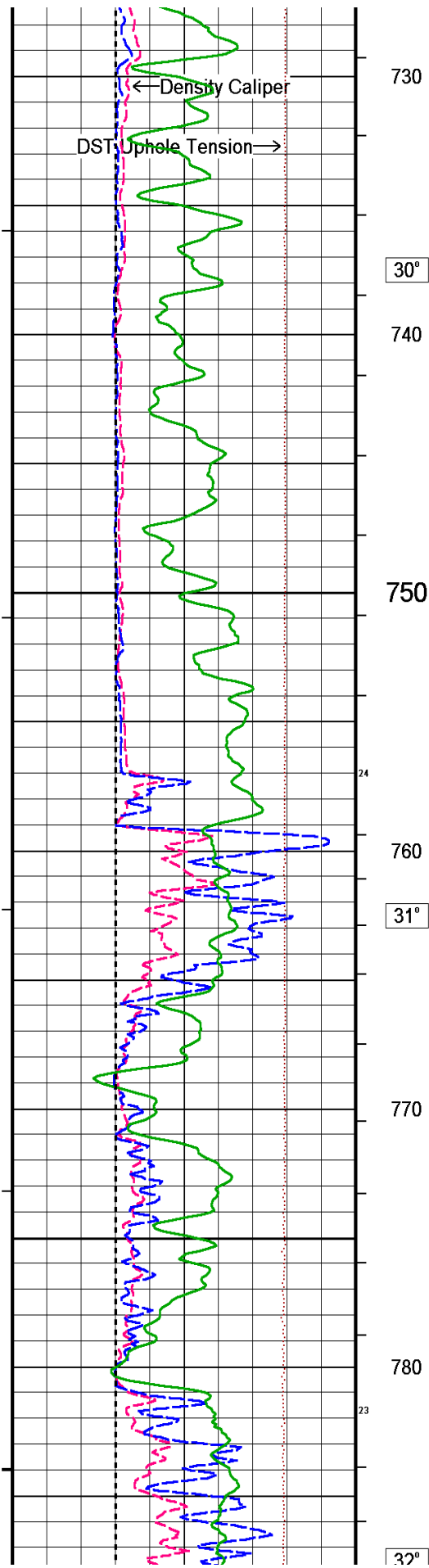


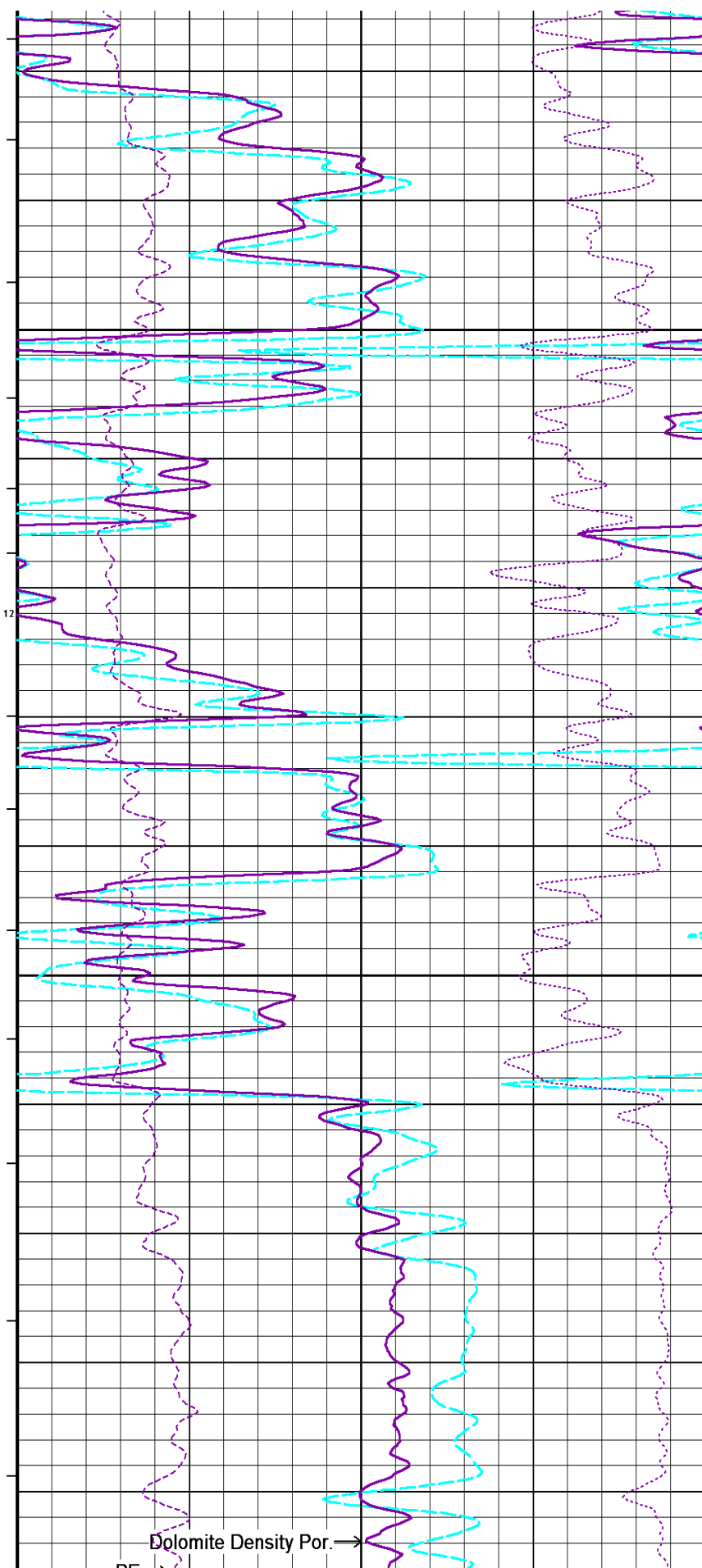
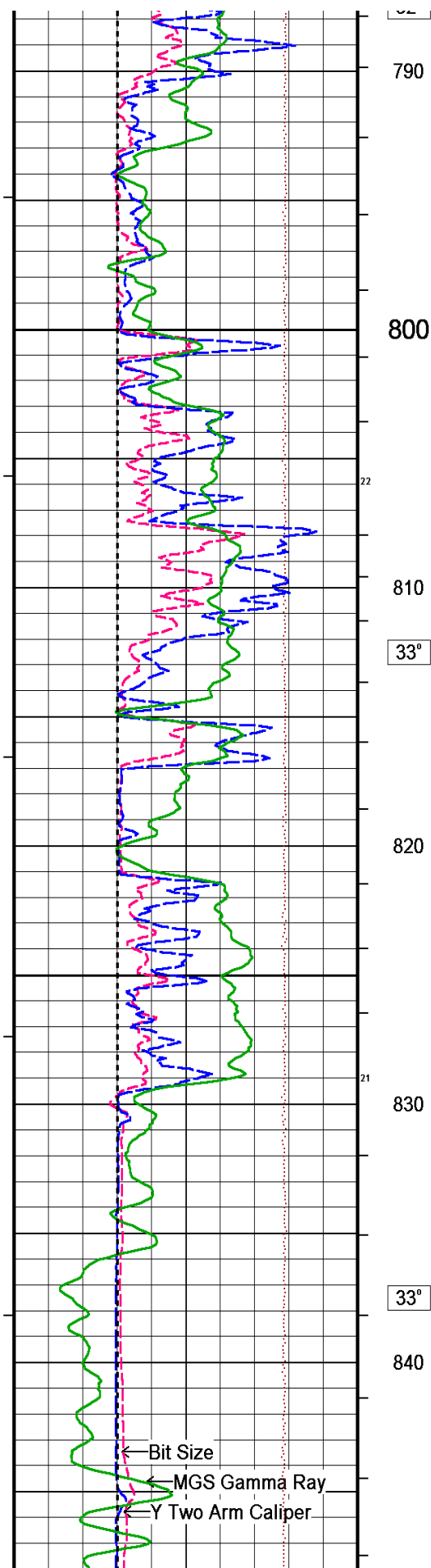


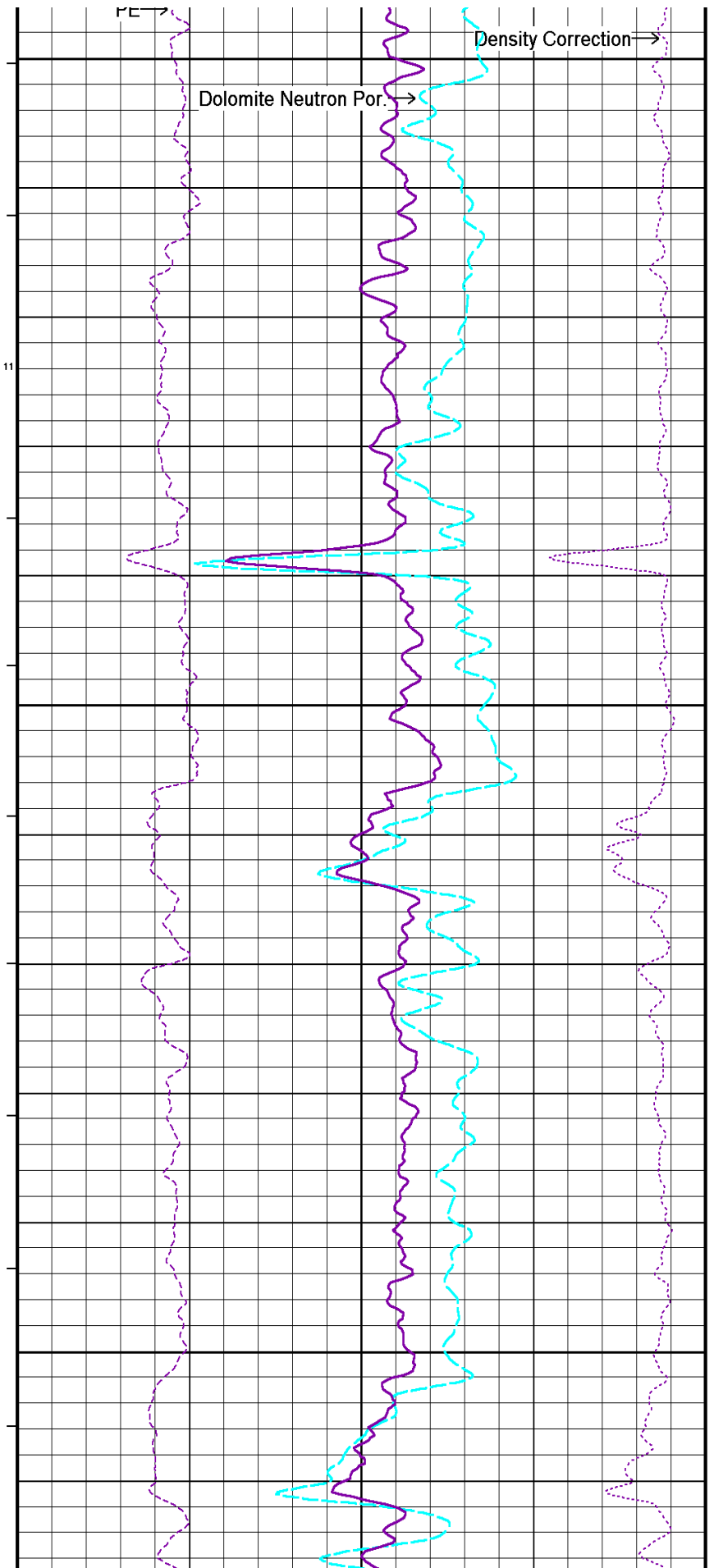
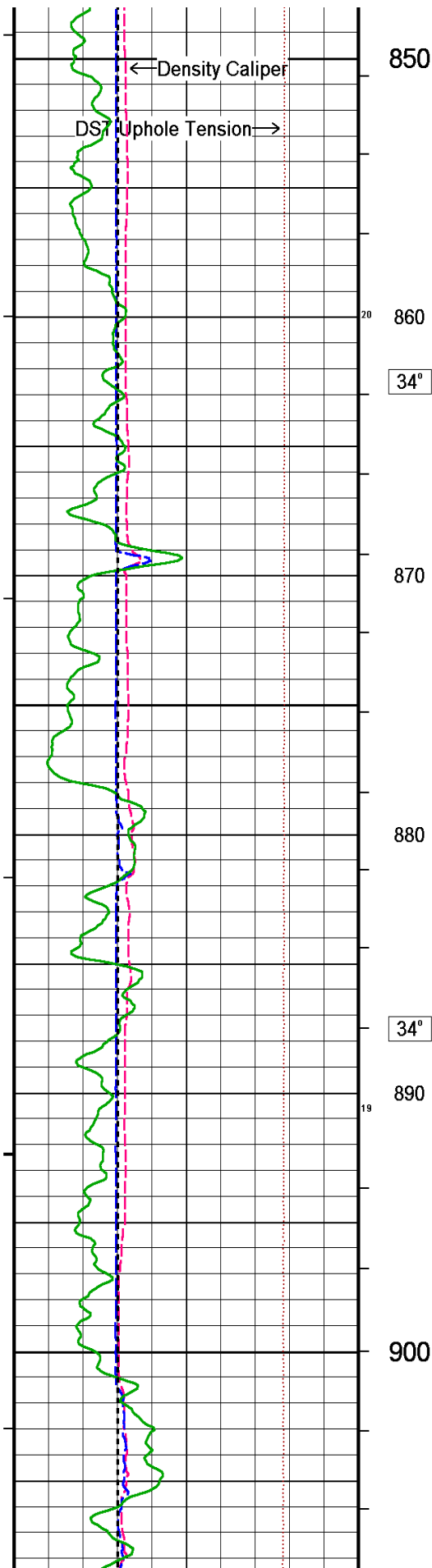


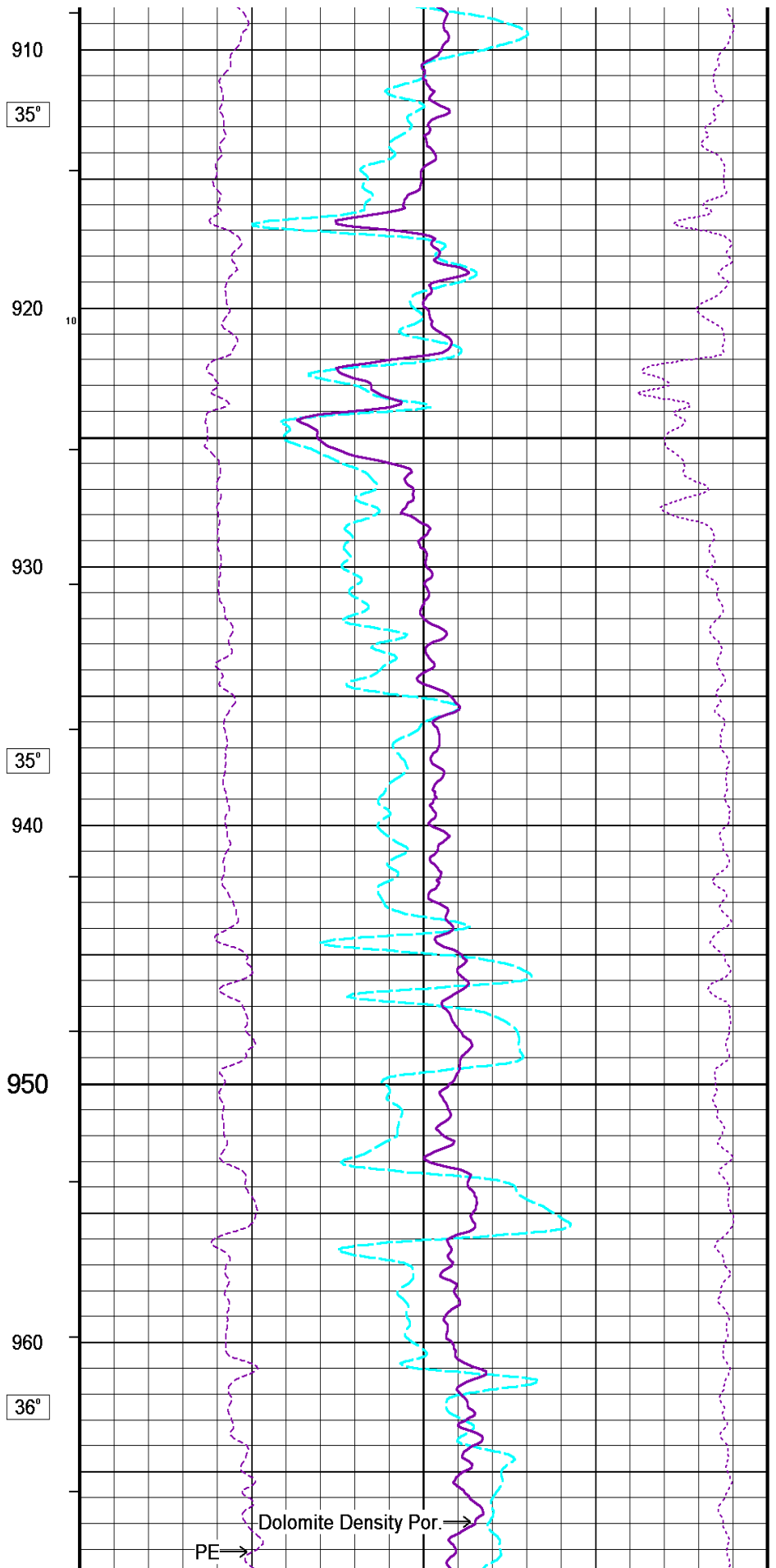
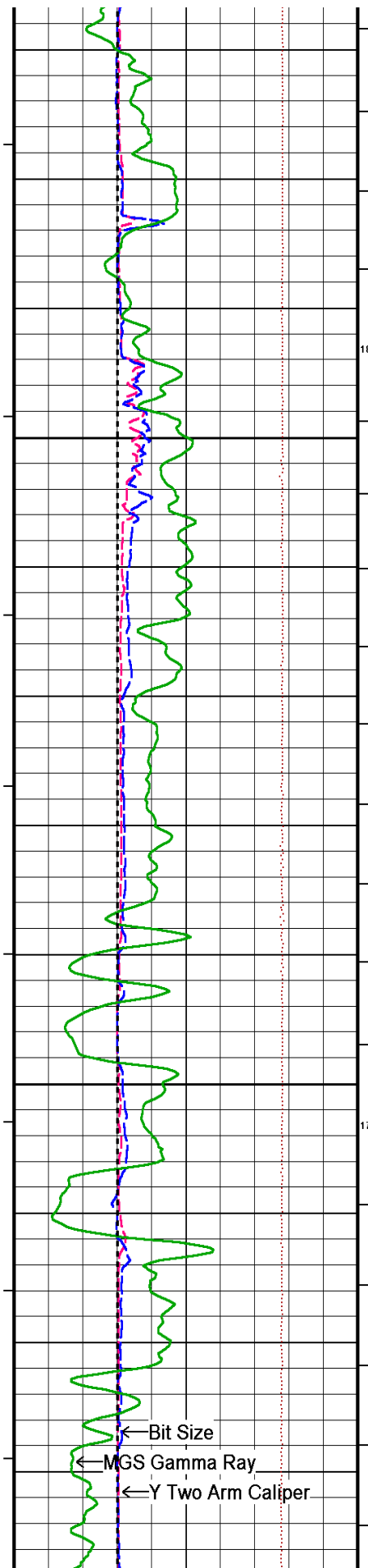


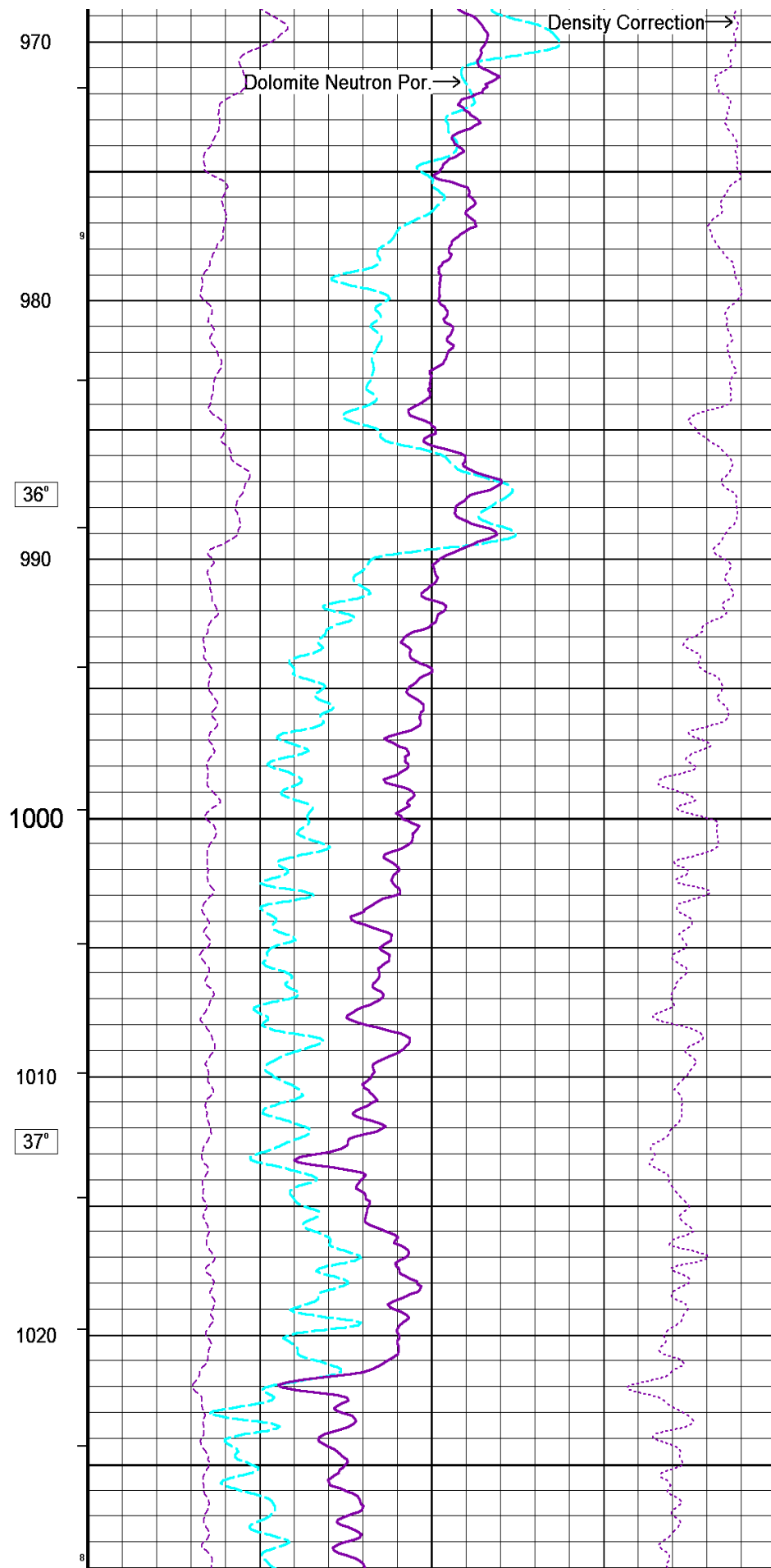
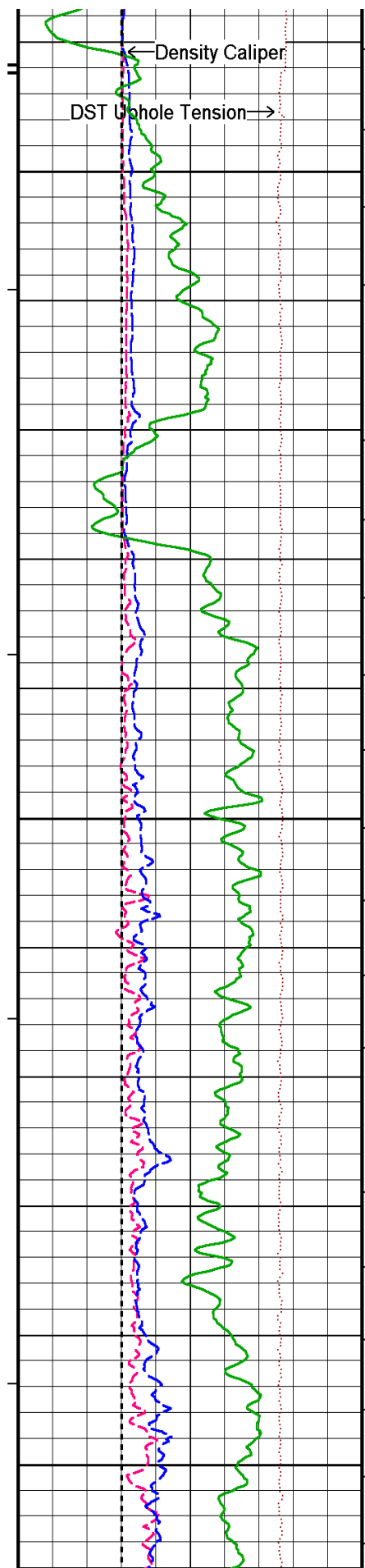


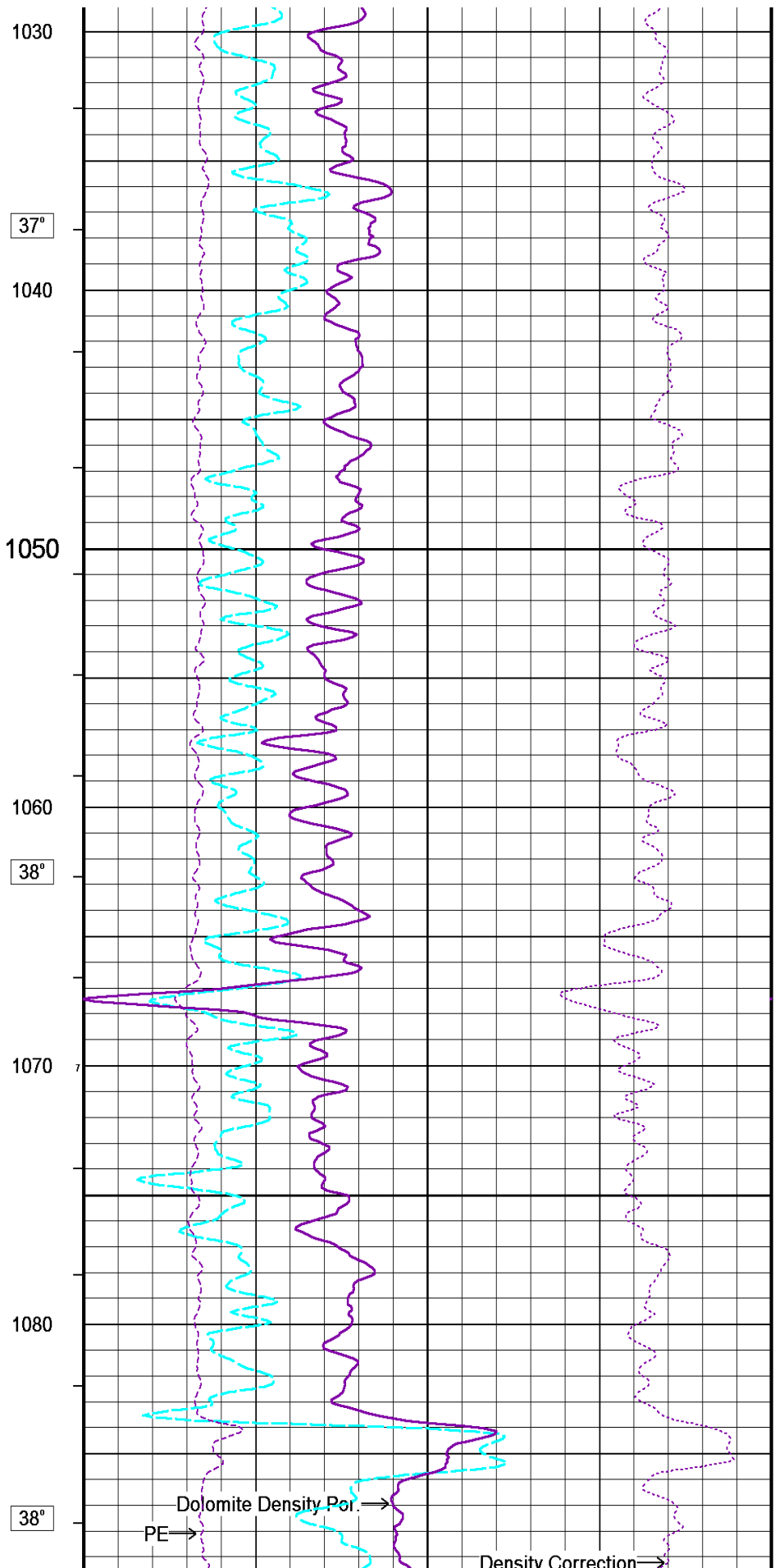
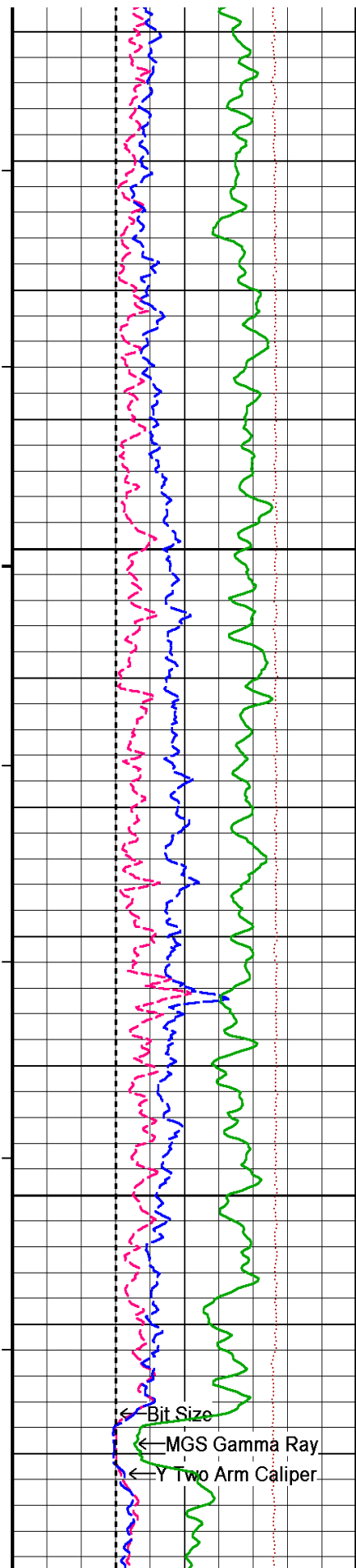












1030

37°

1040

1050

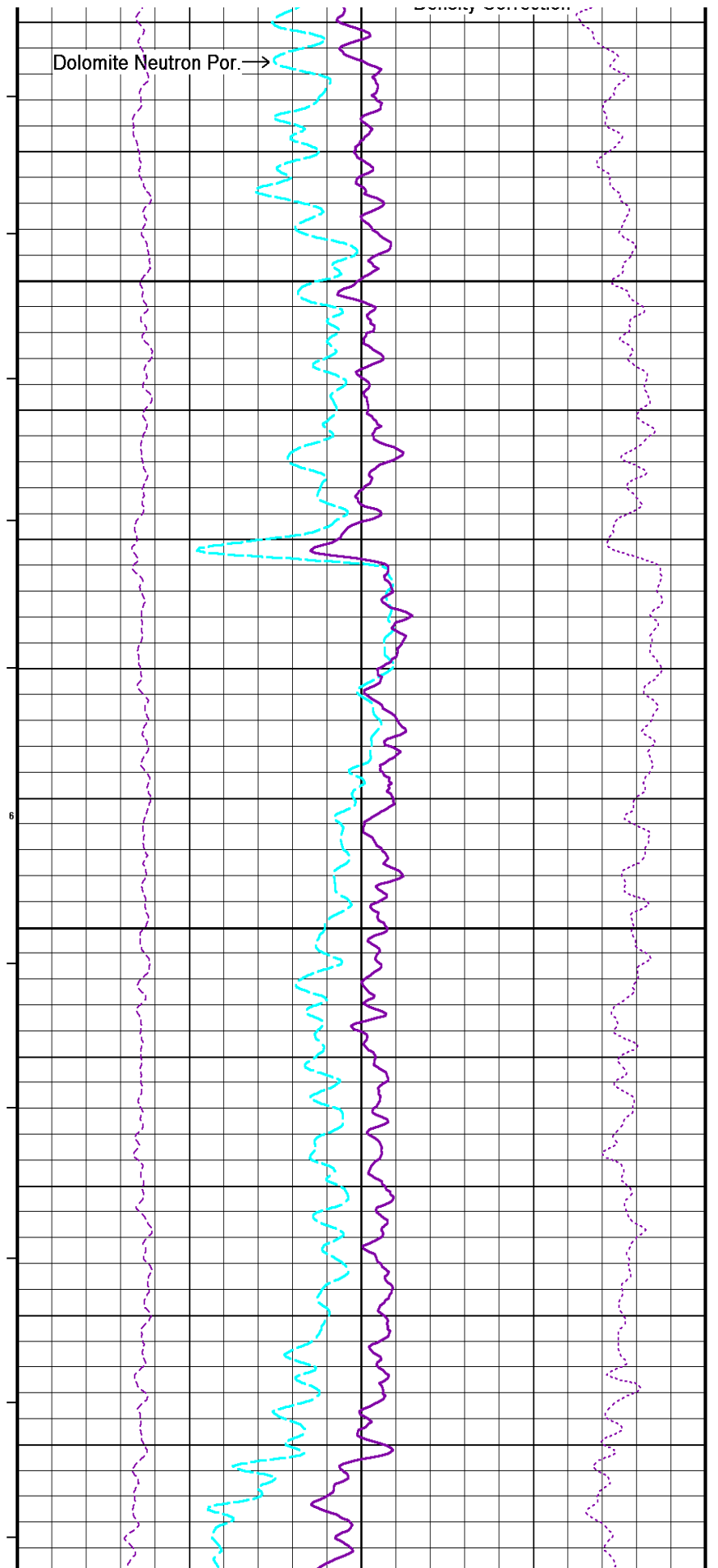
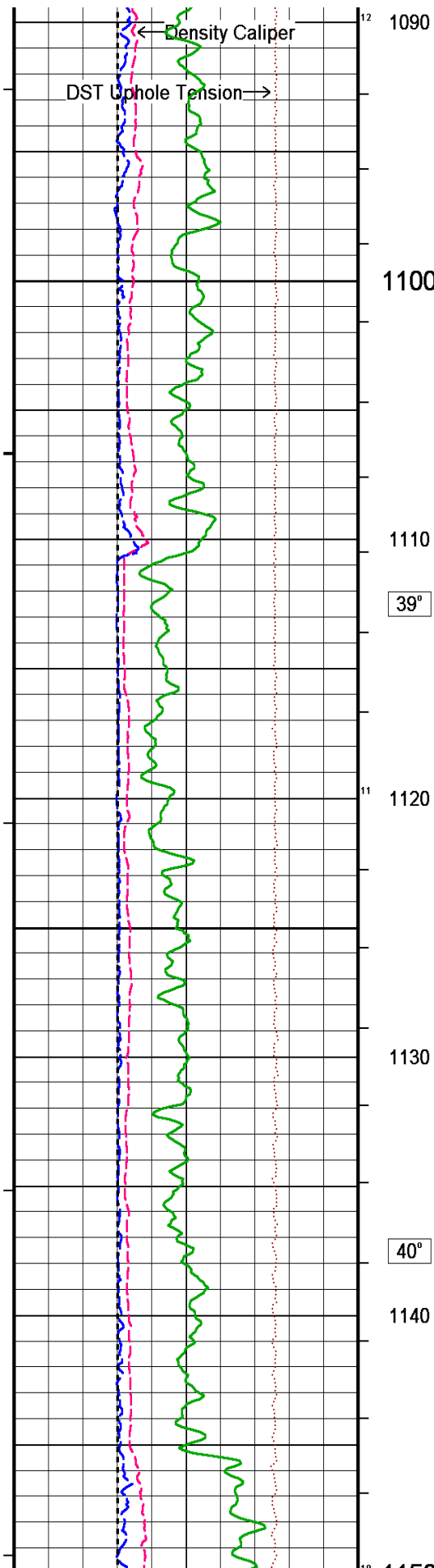
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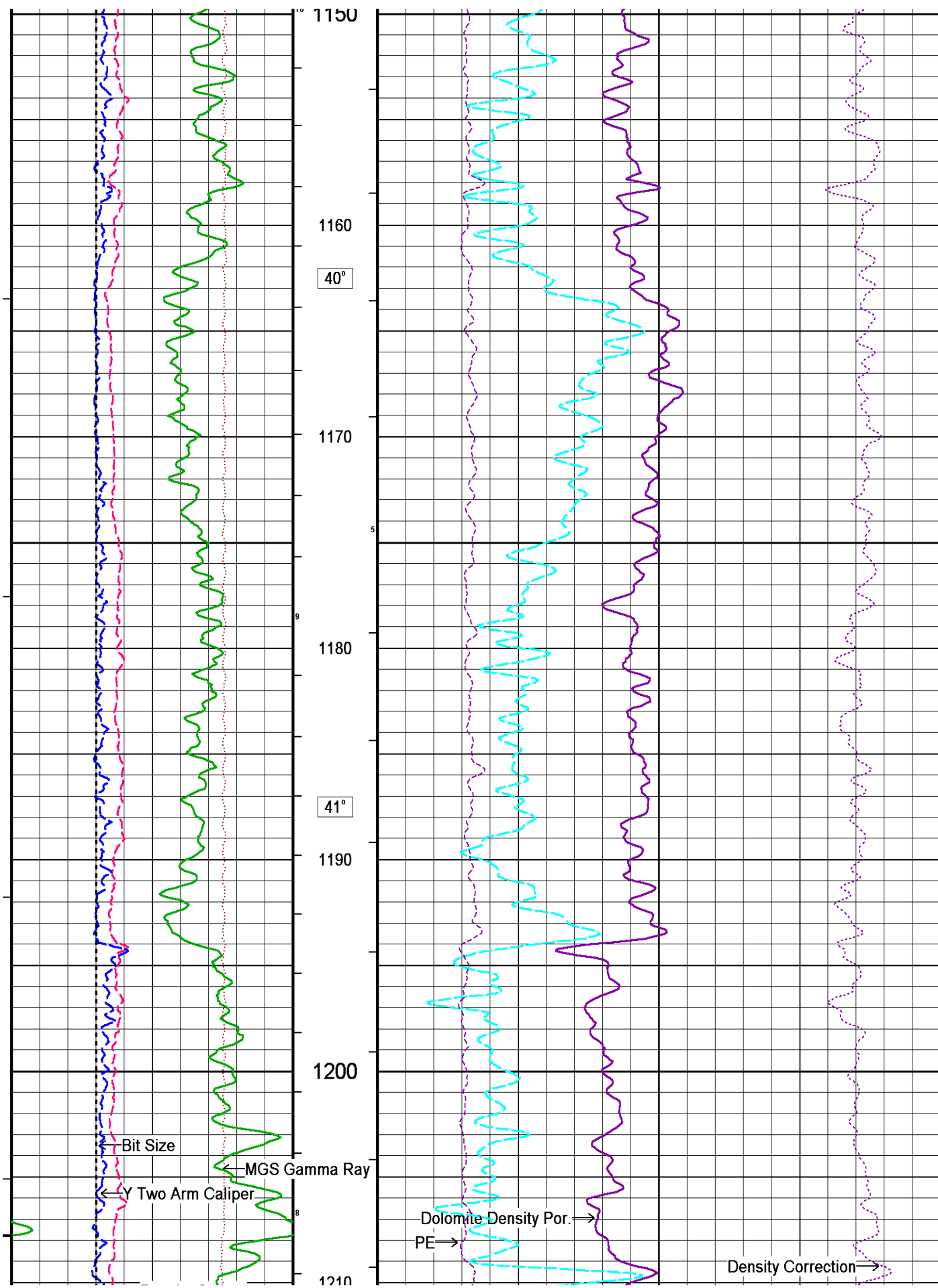
38°

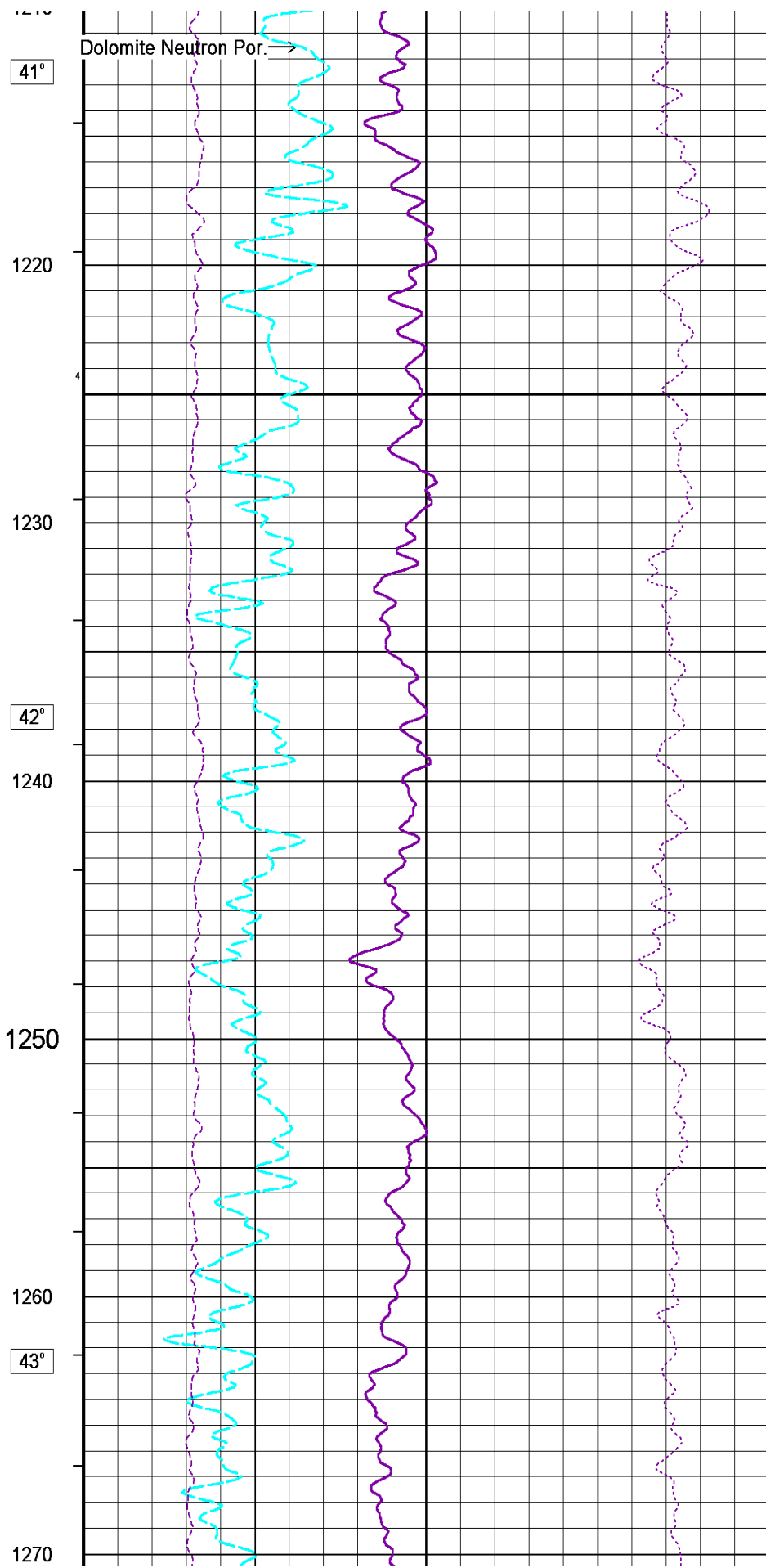
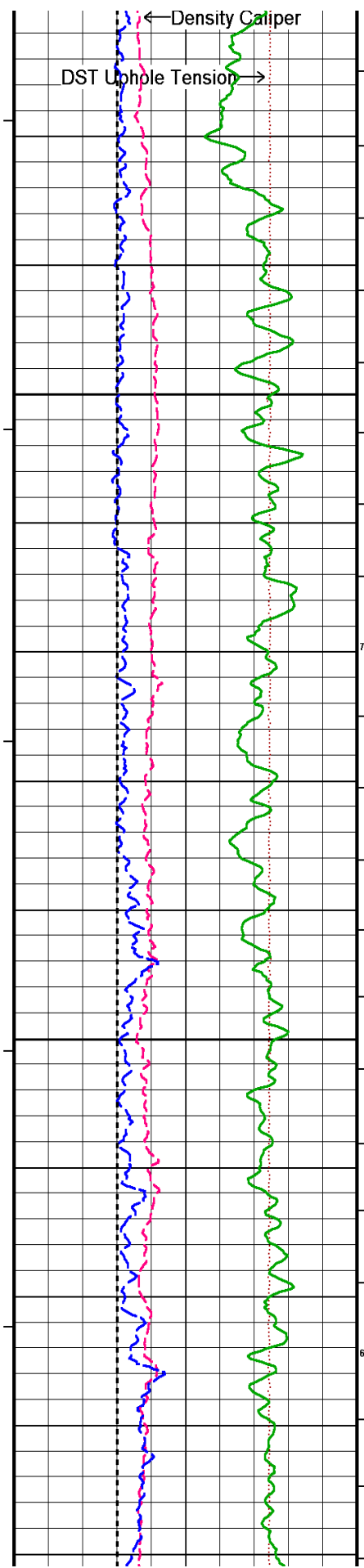
1070

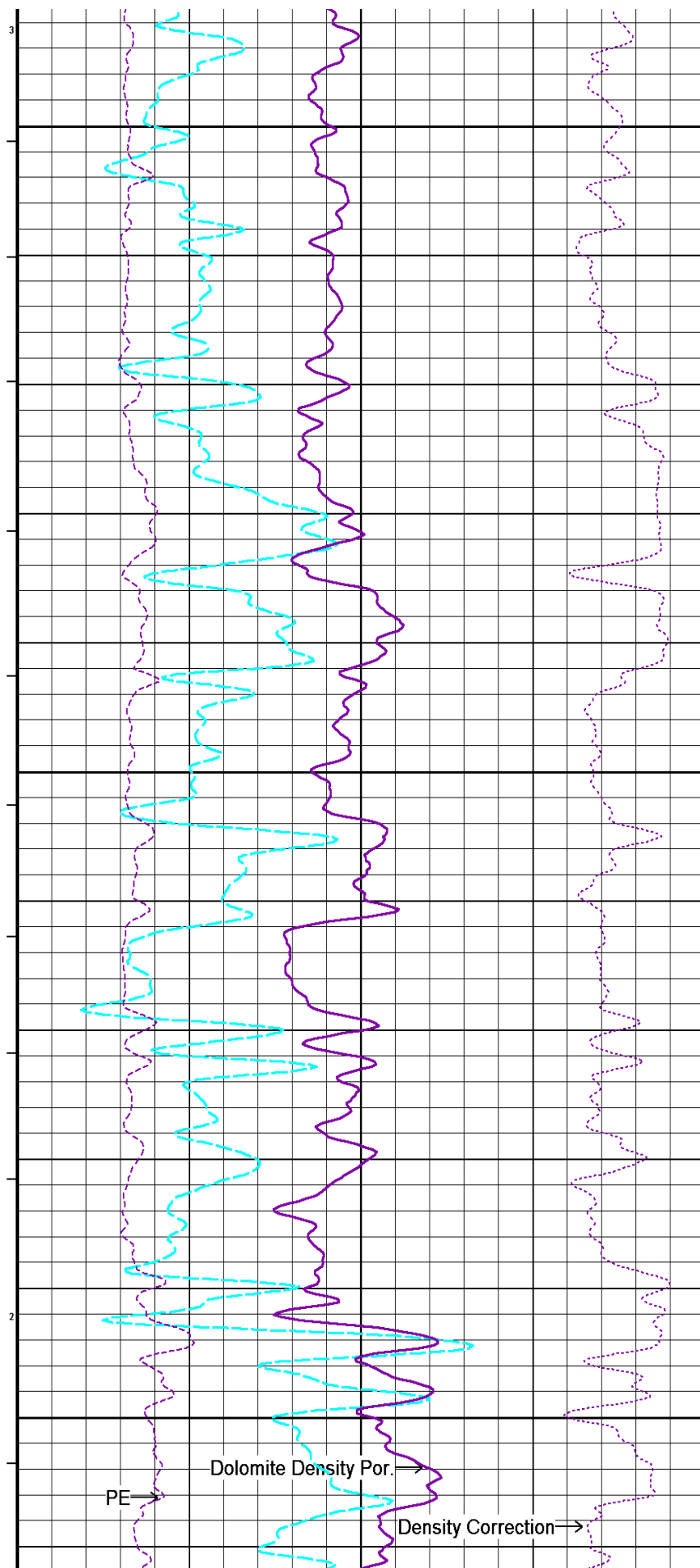
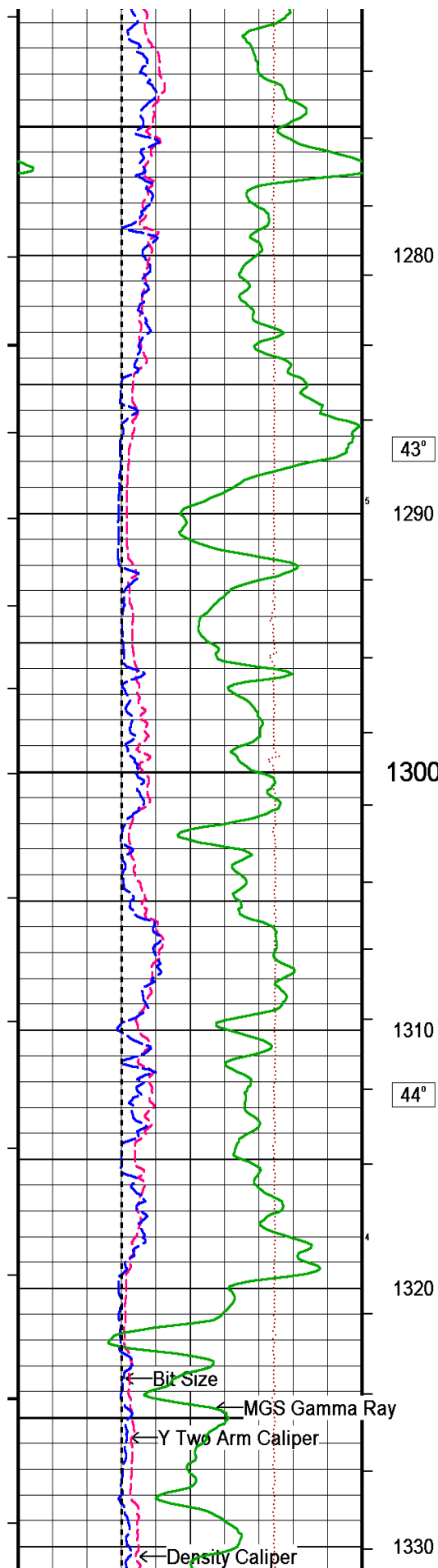
1080

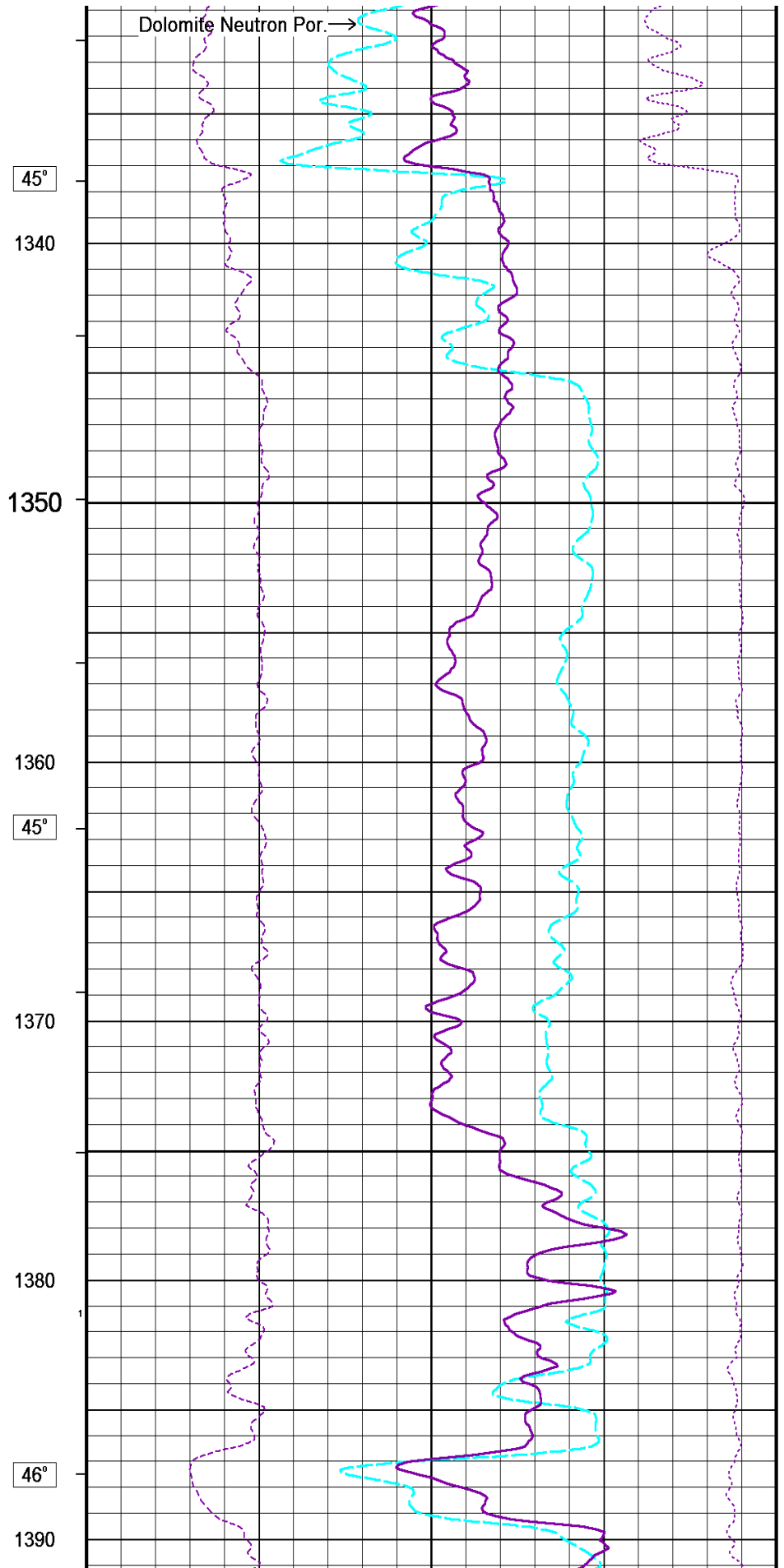
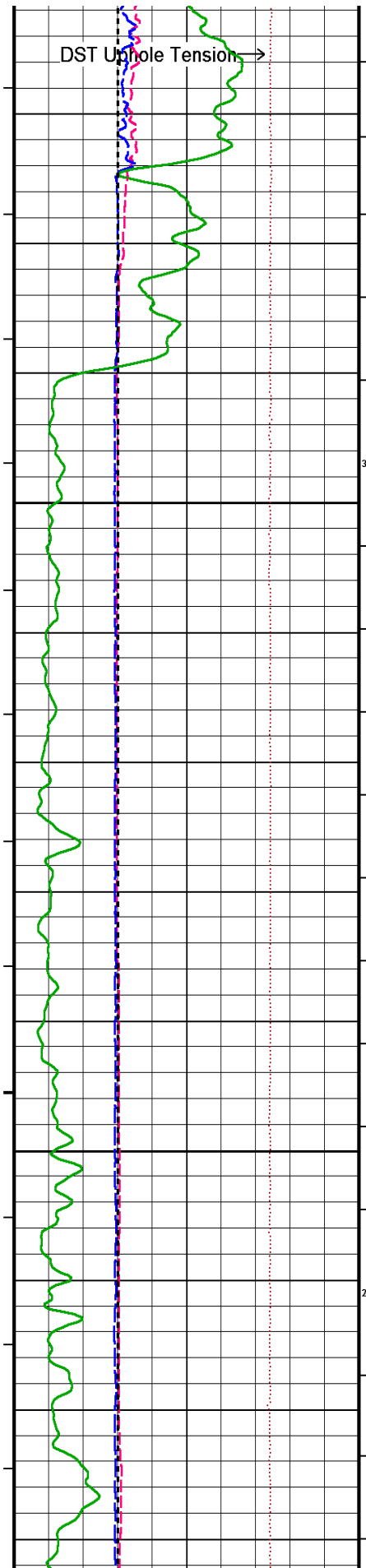
38°

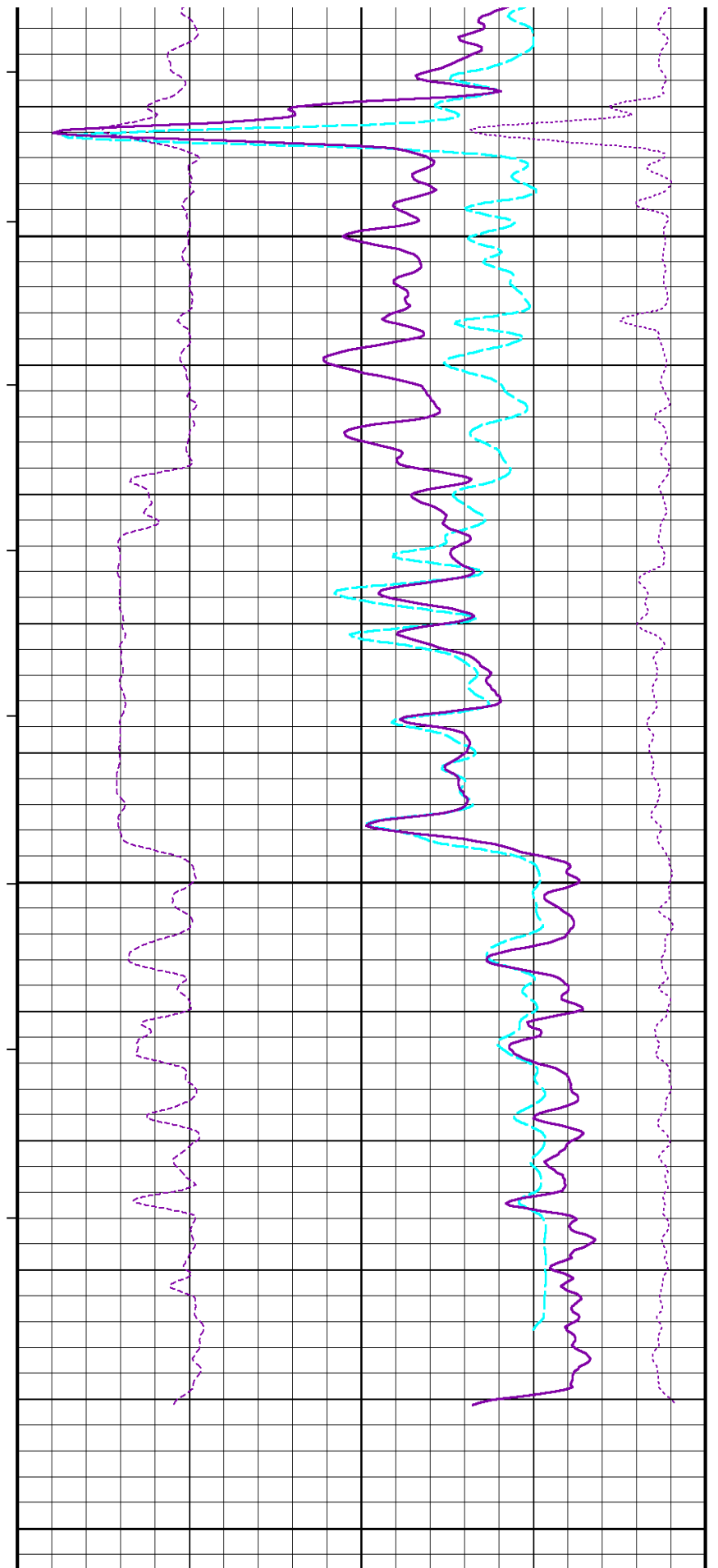
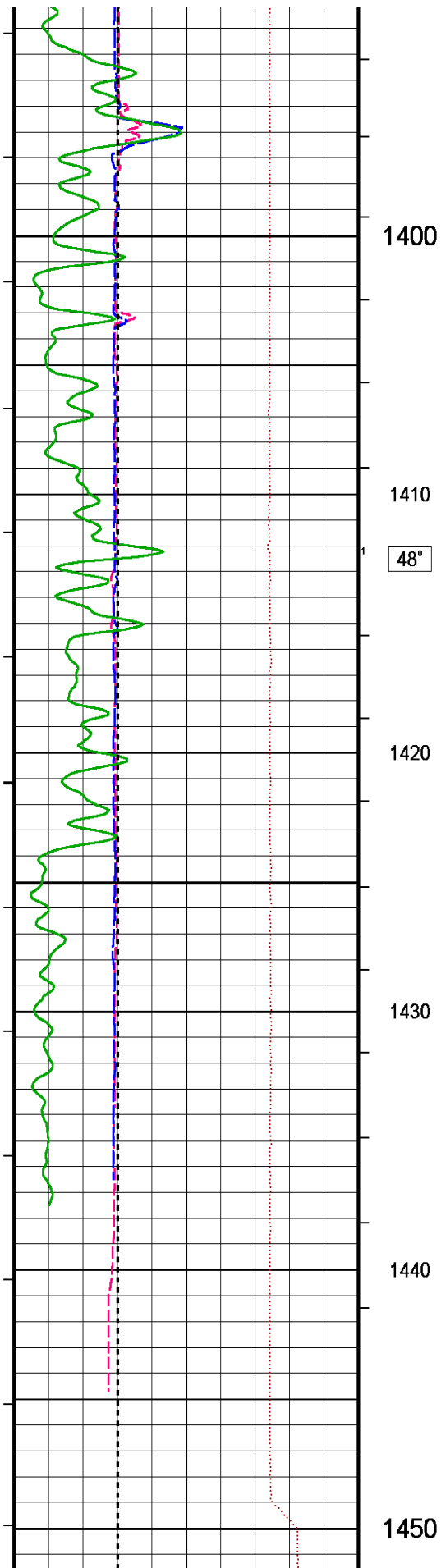


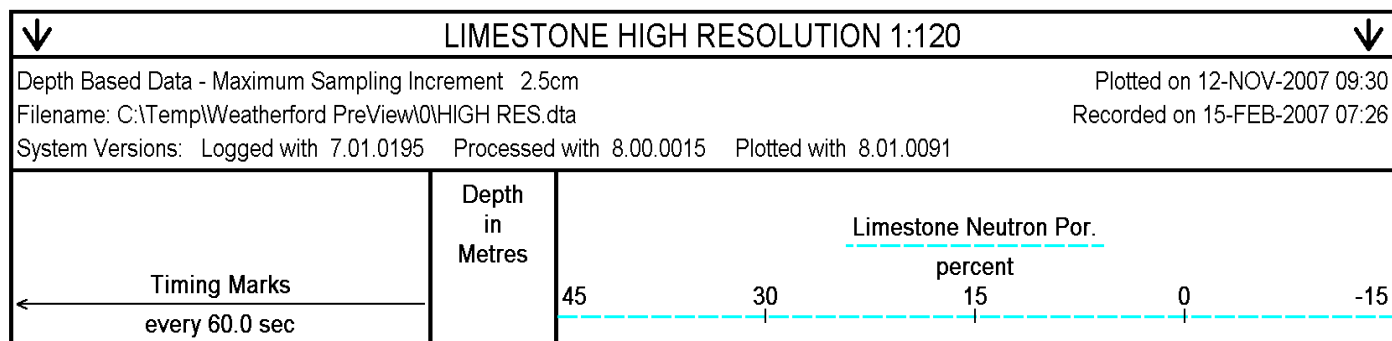
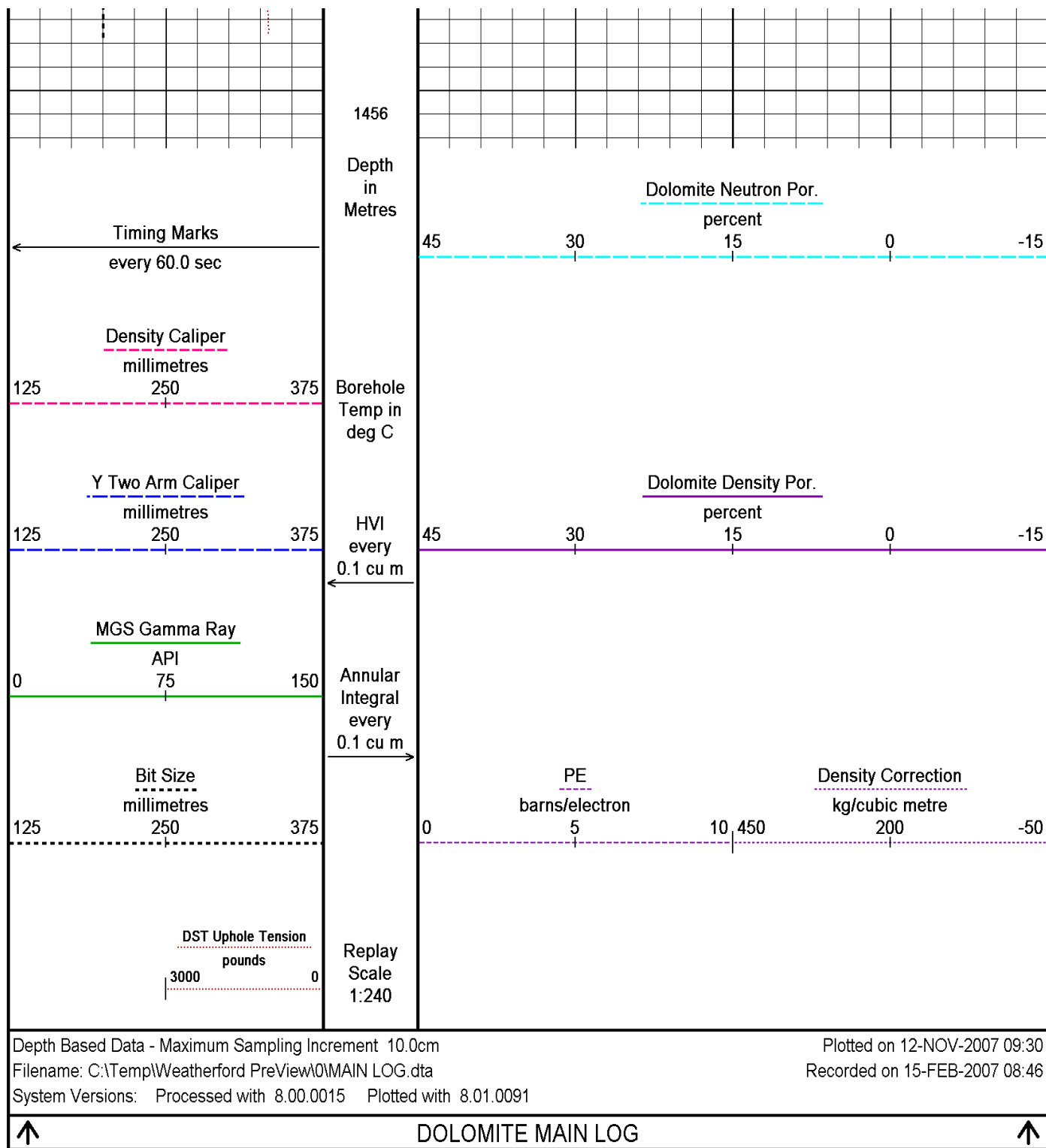


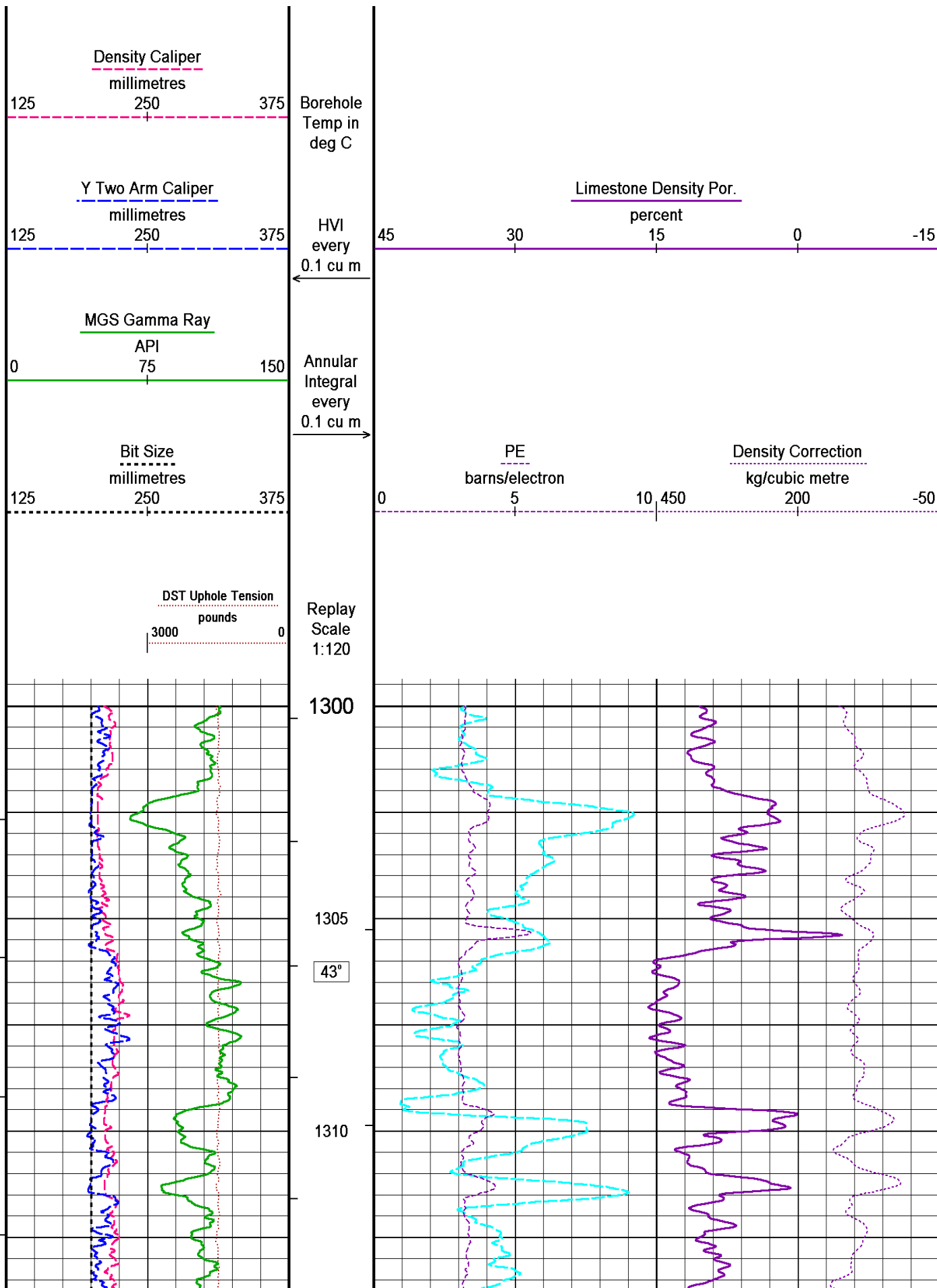


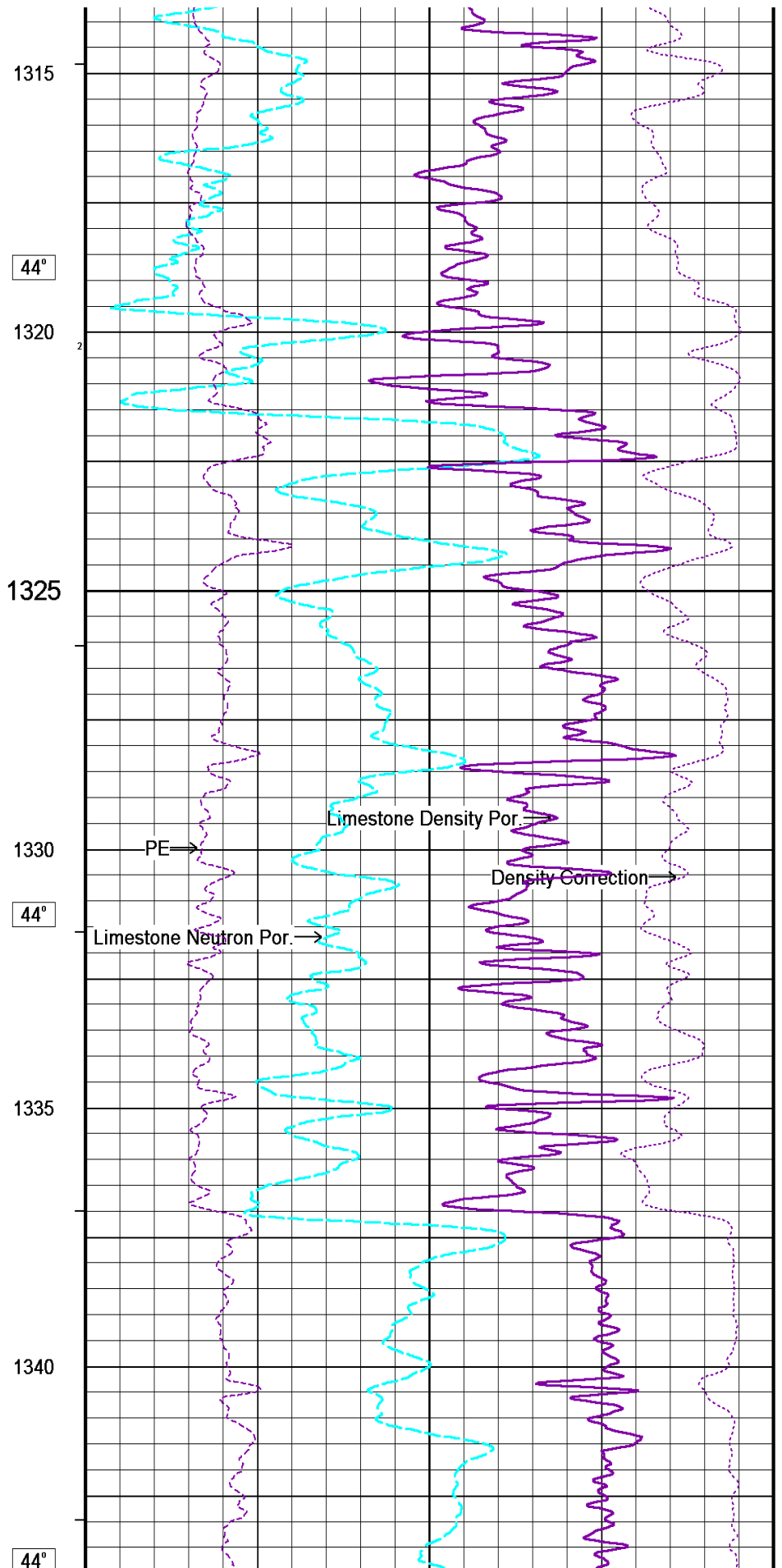
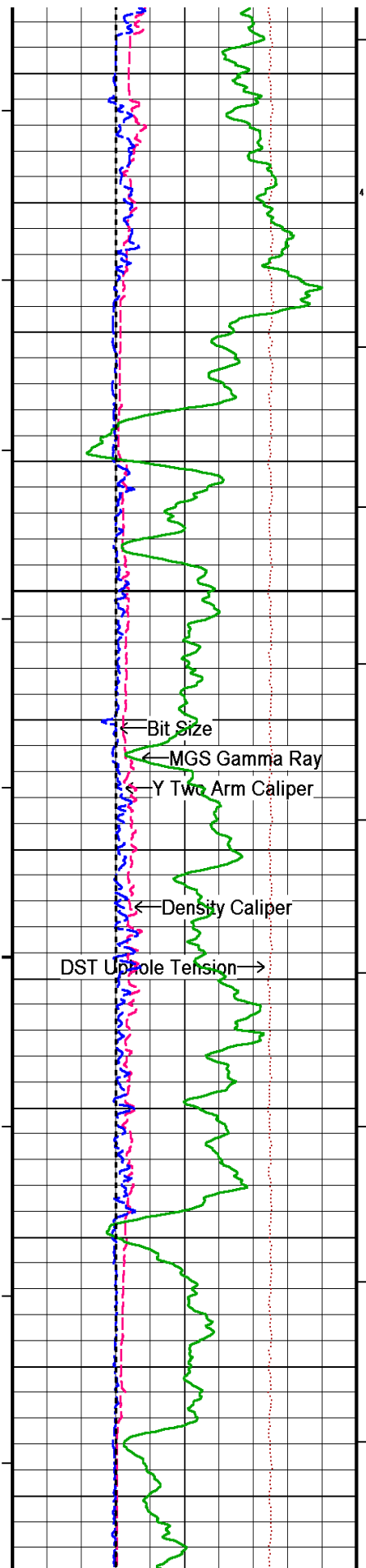


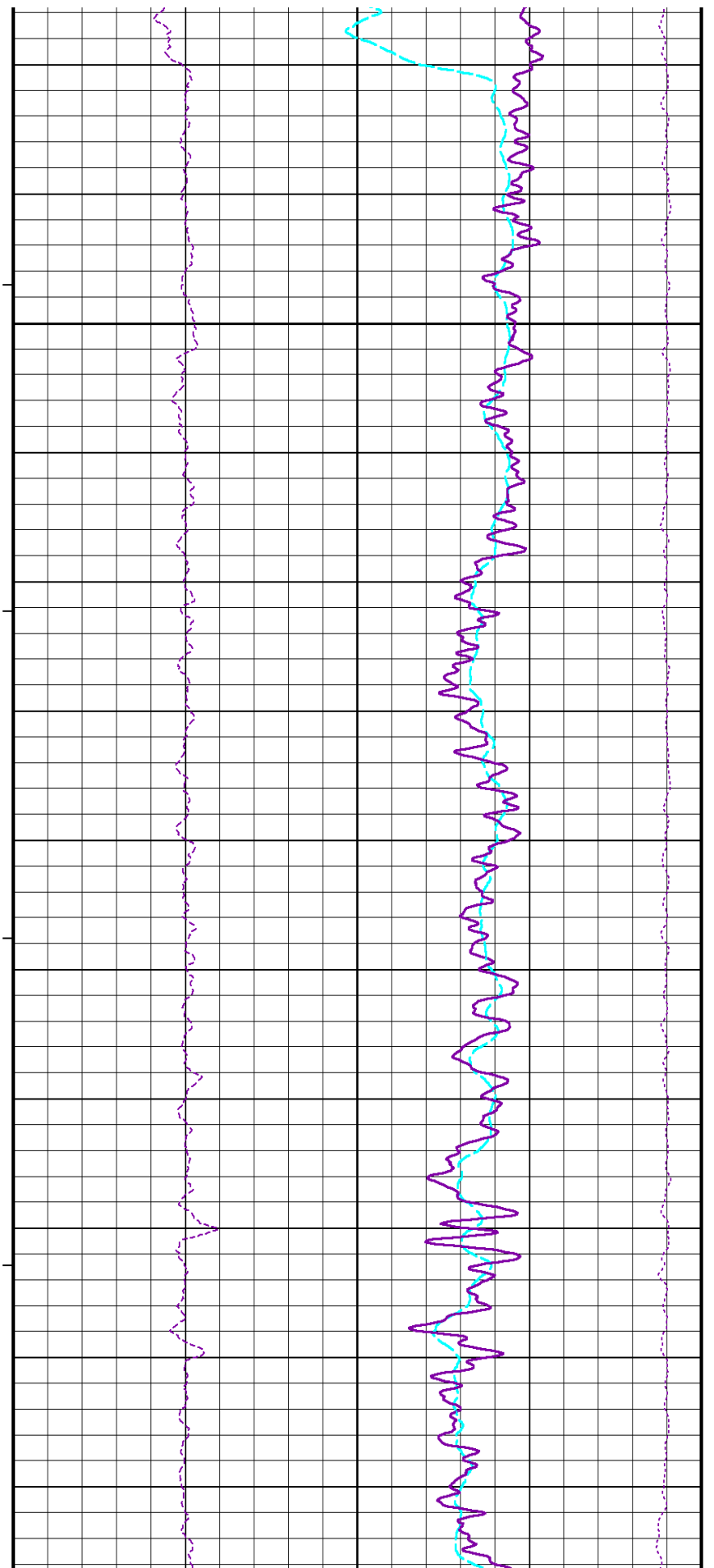
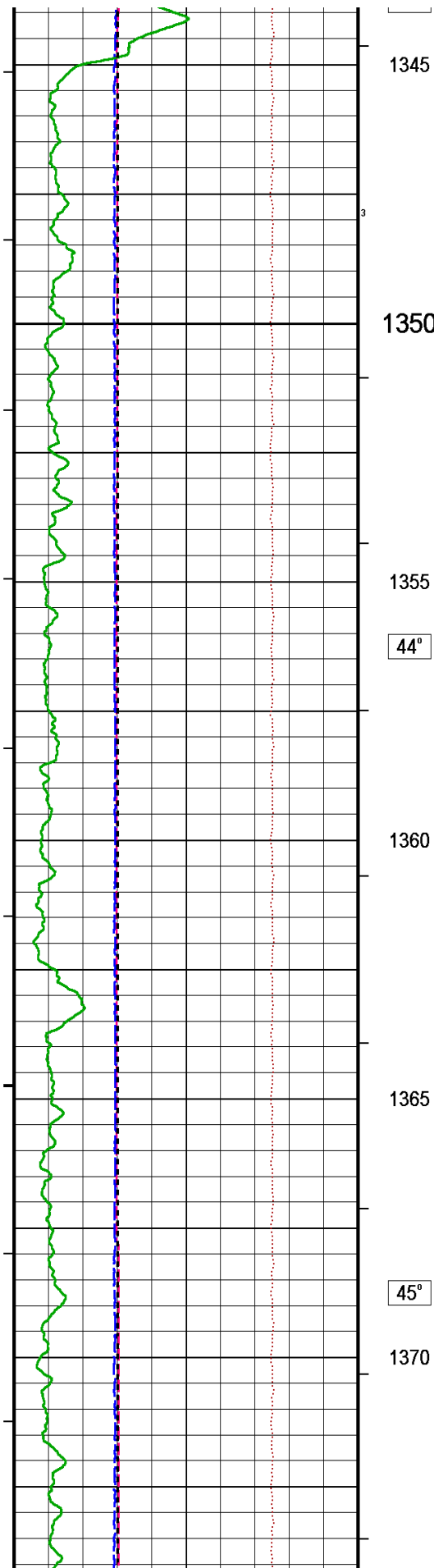


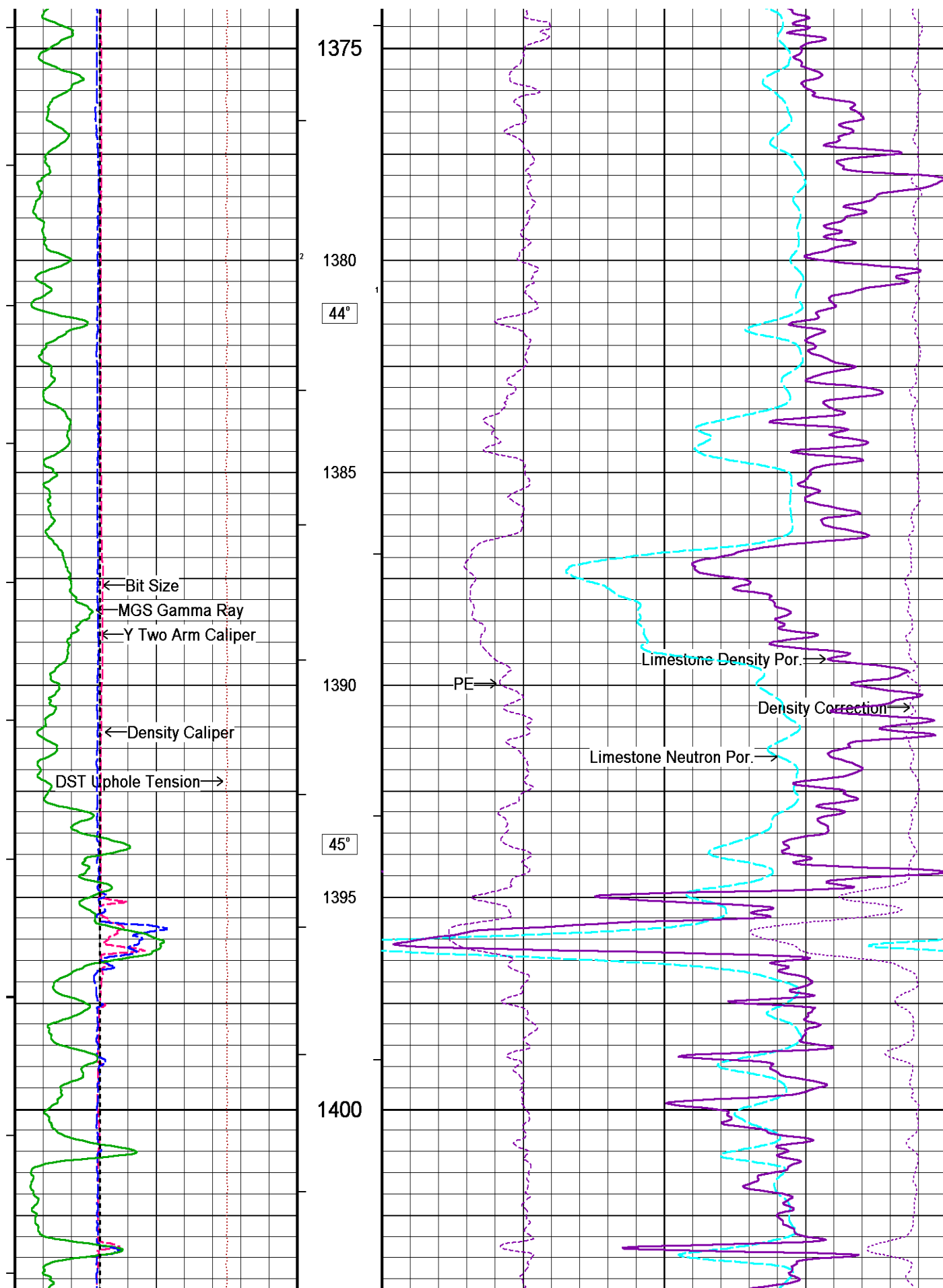


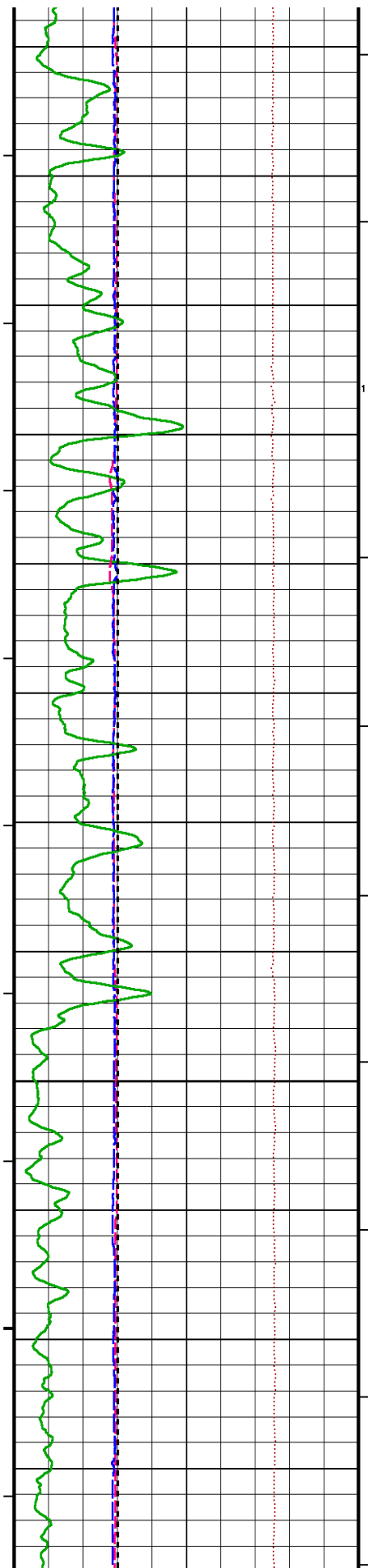




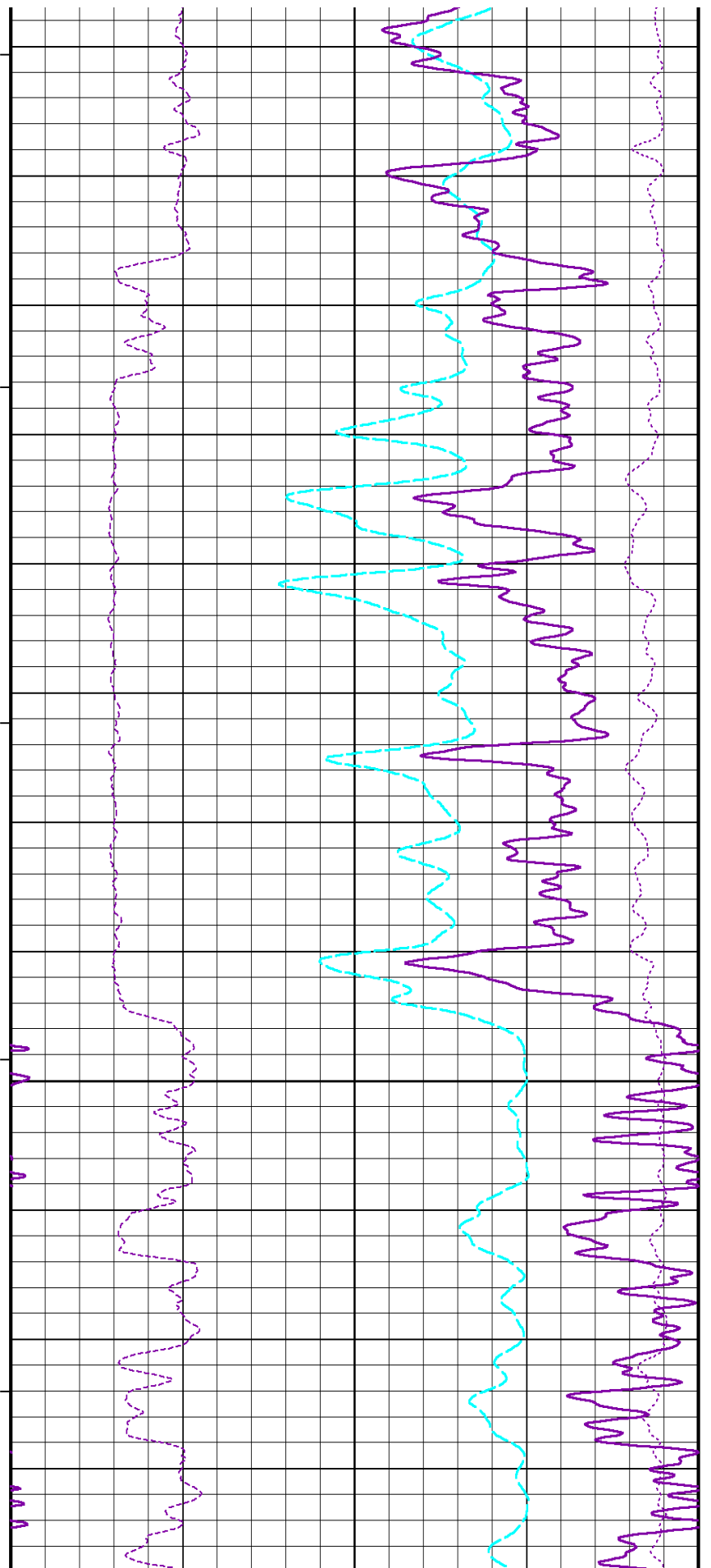


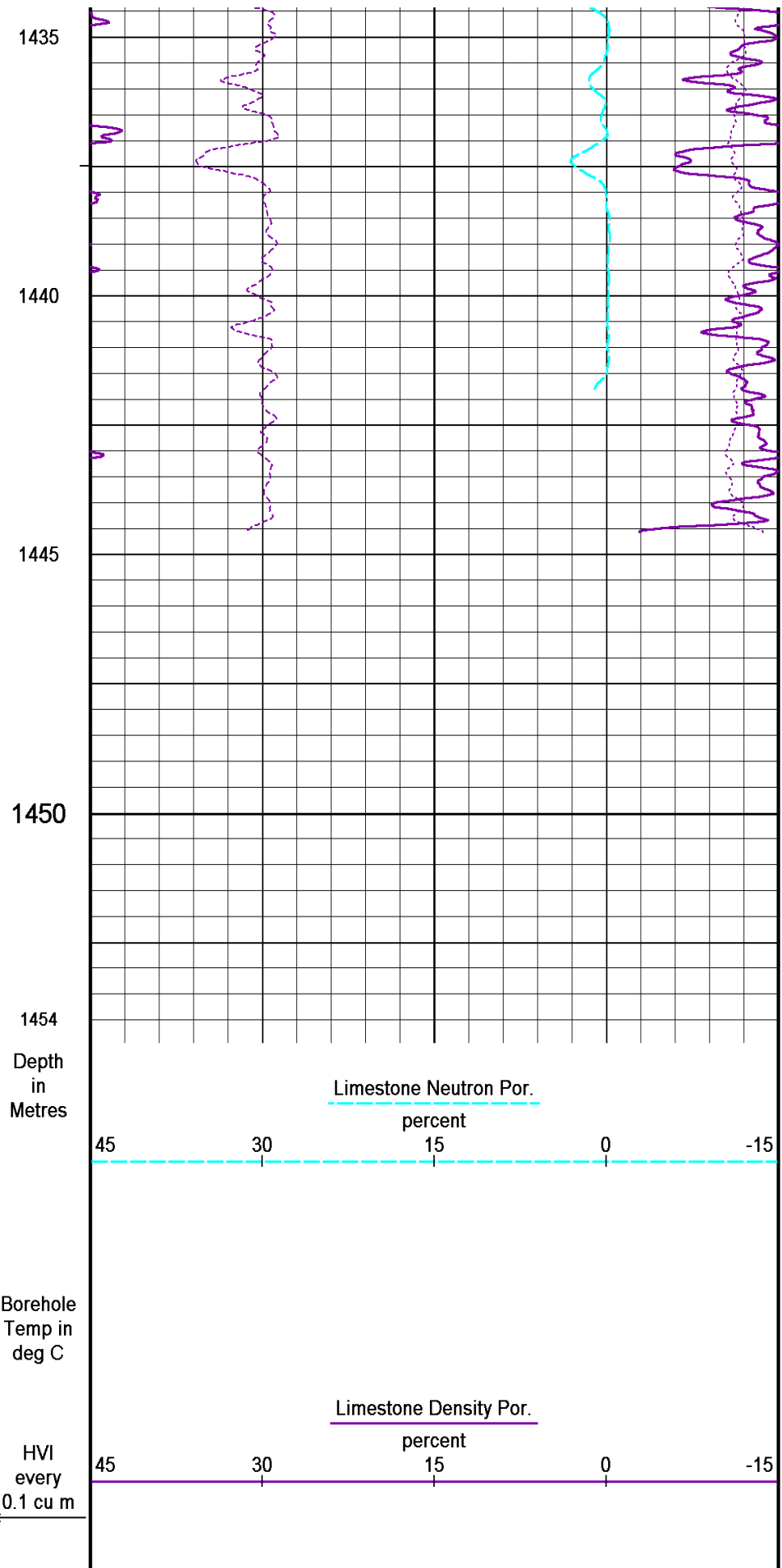
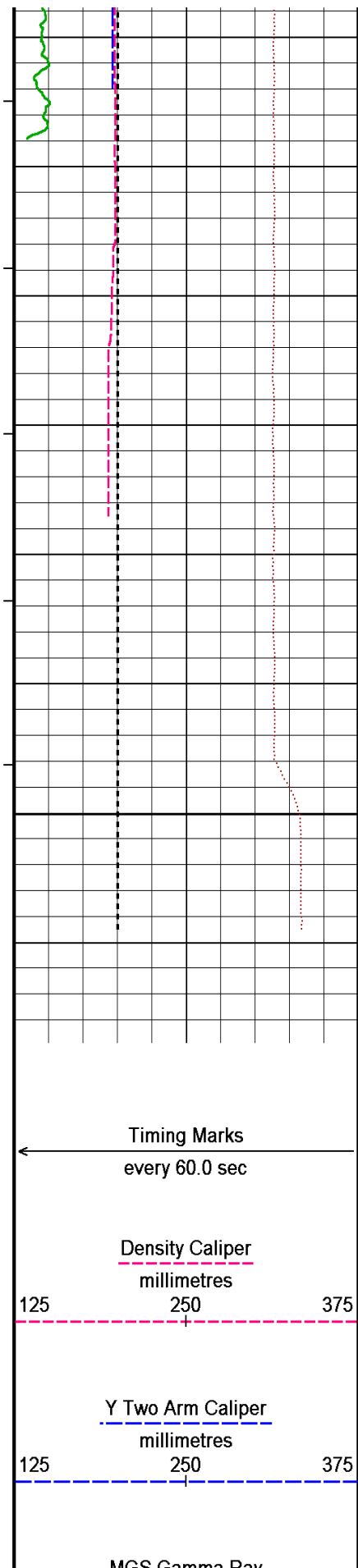


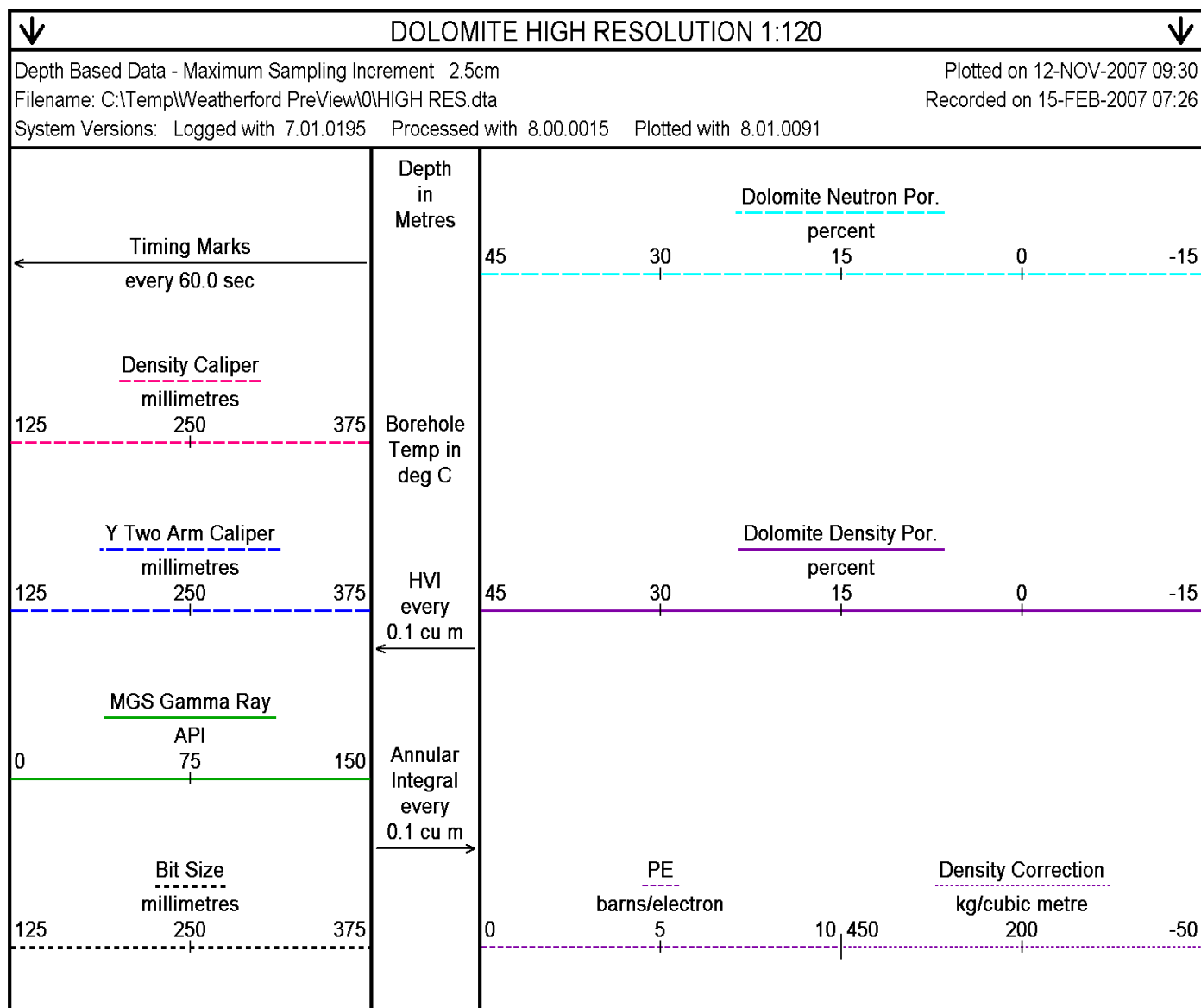
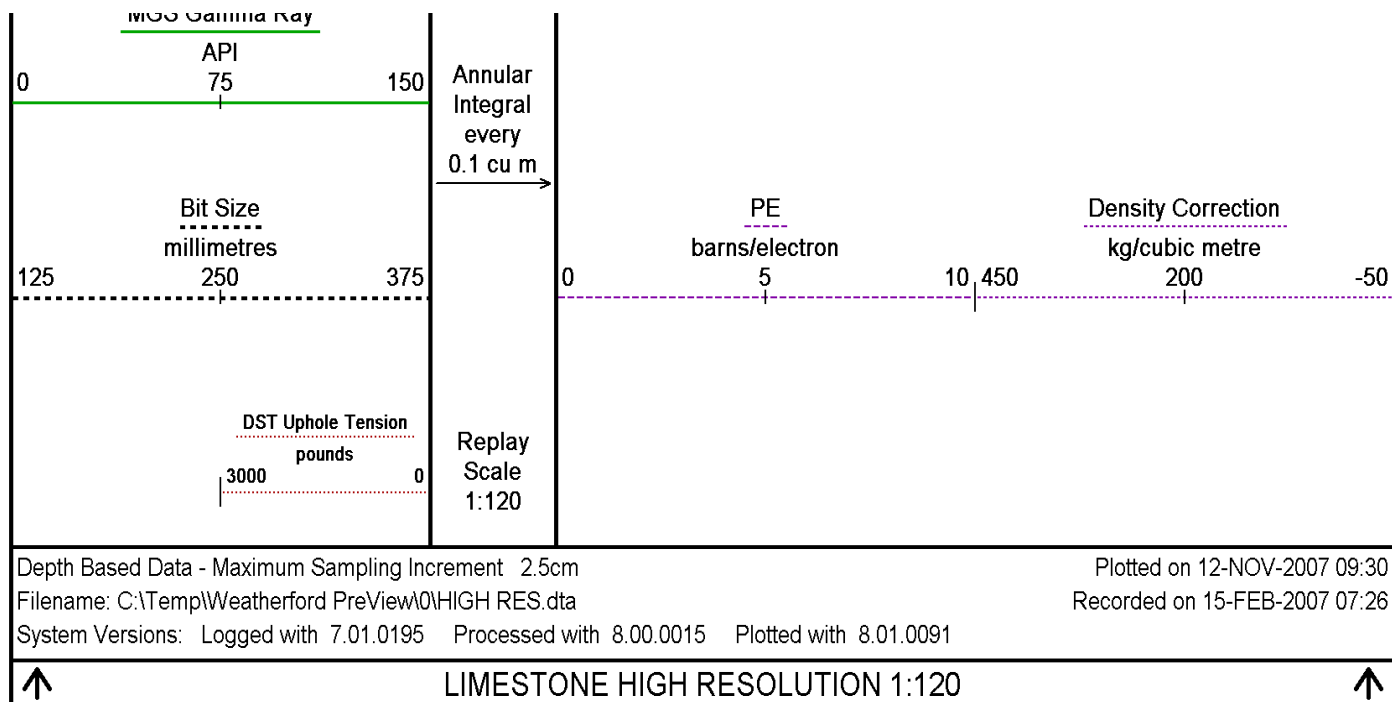


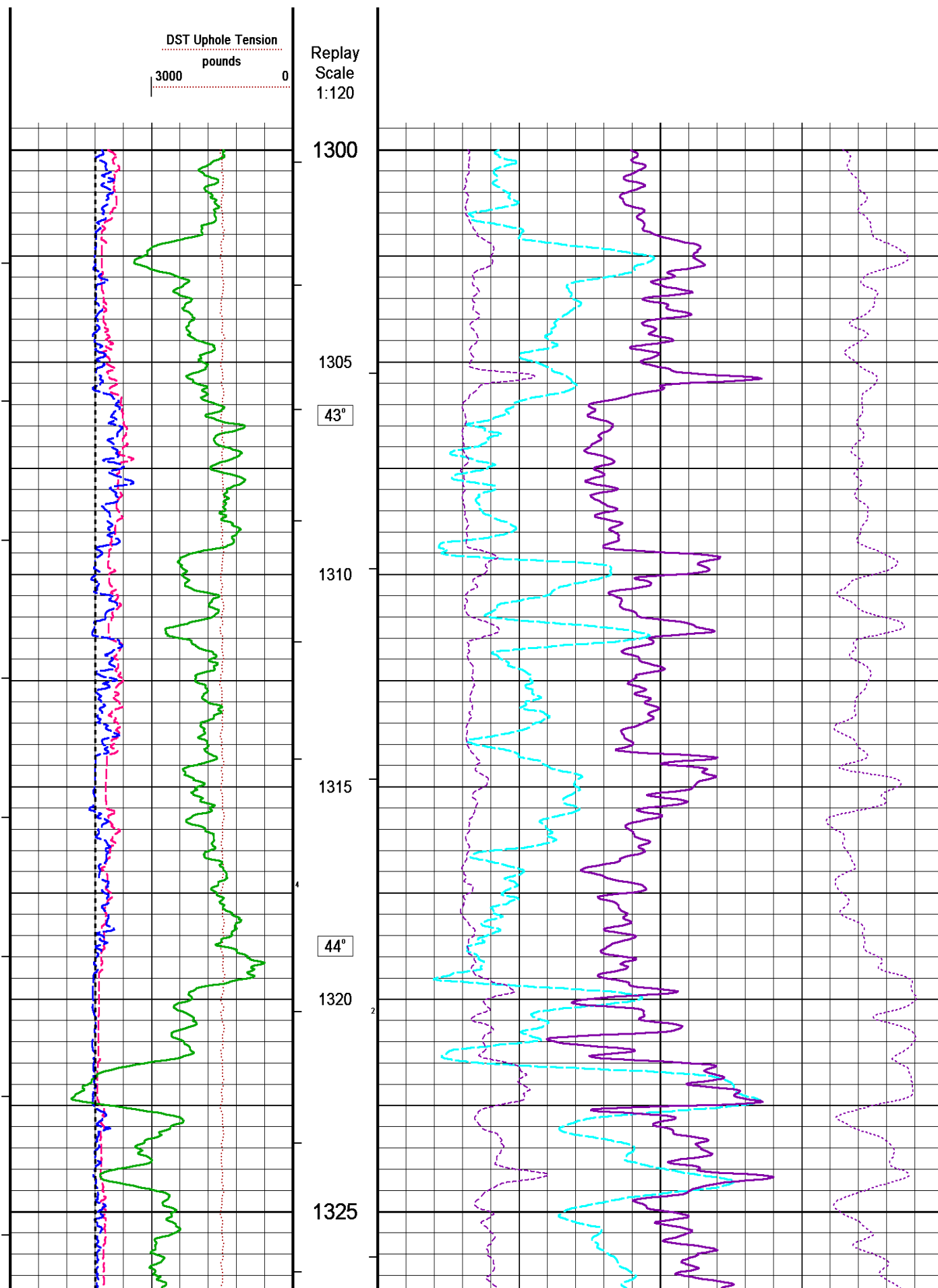


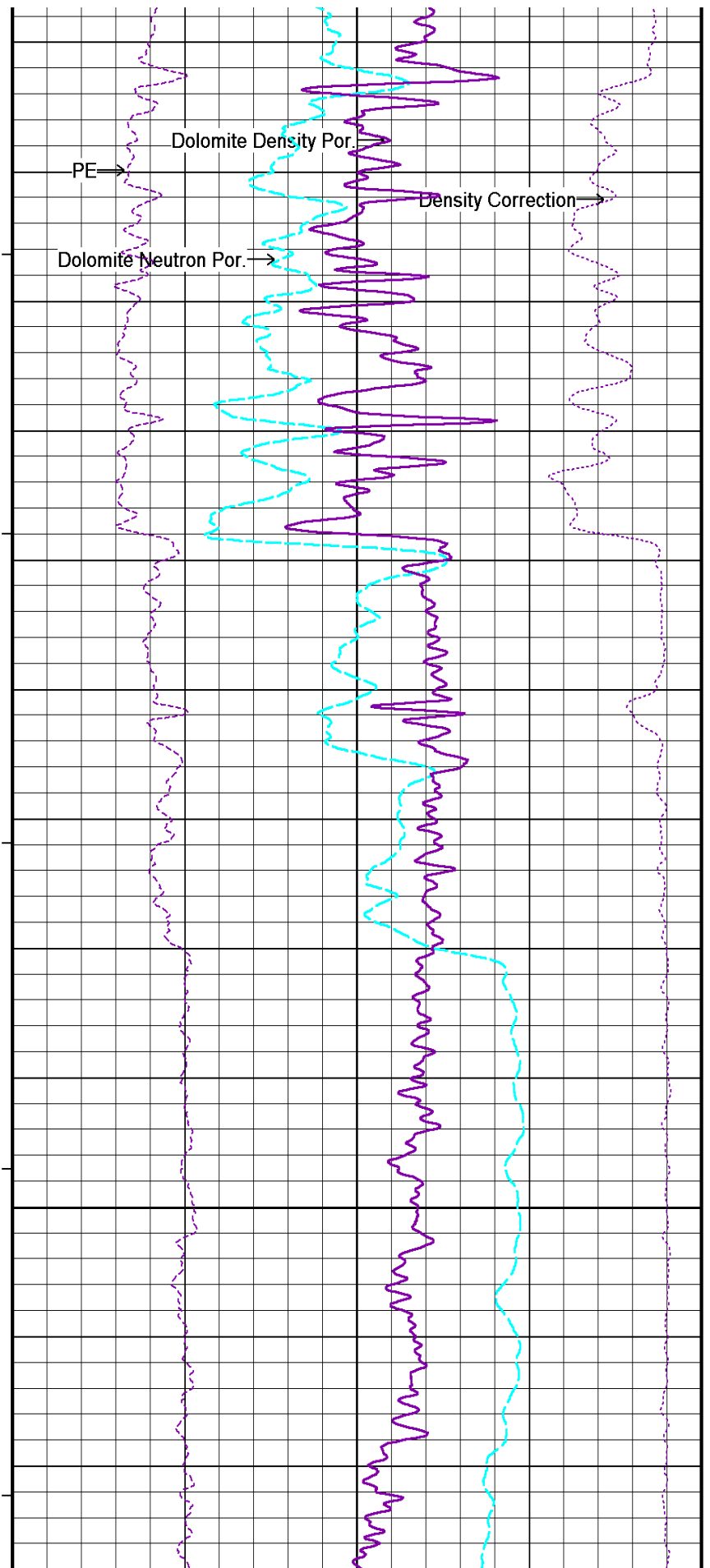
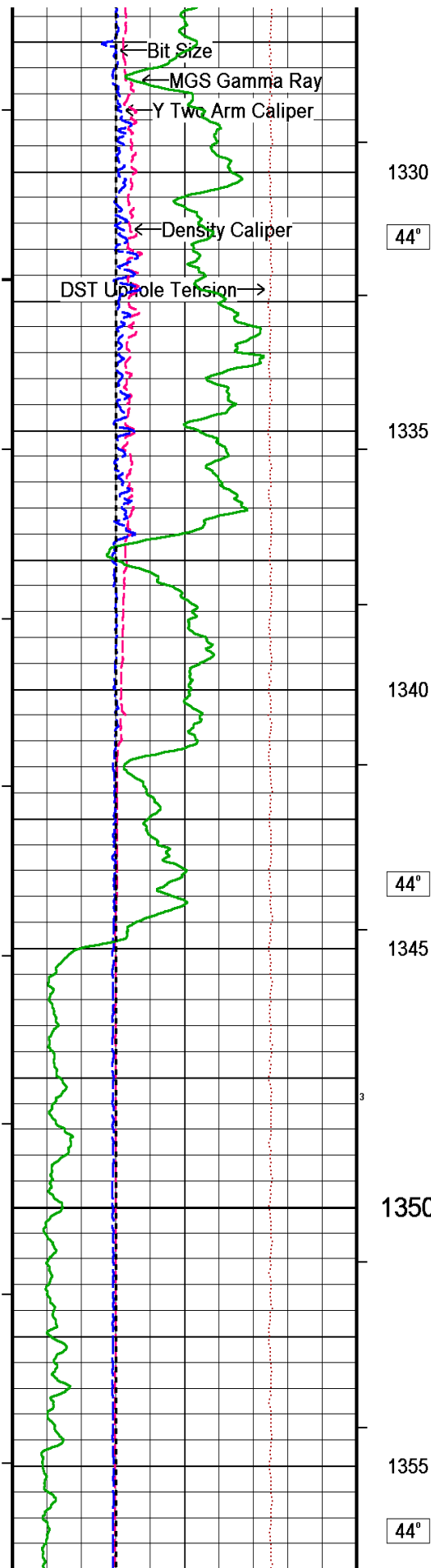
1405
46°
1410
1415
46°
1420
1425
1430
46°

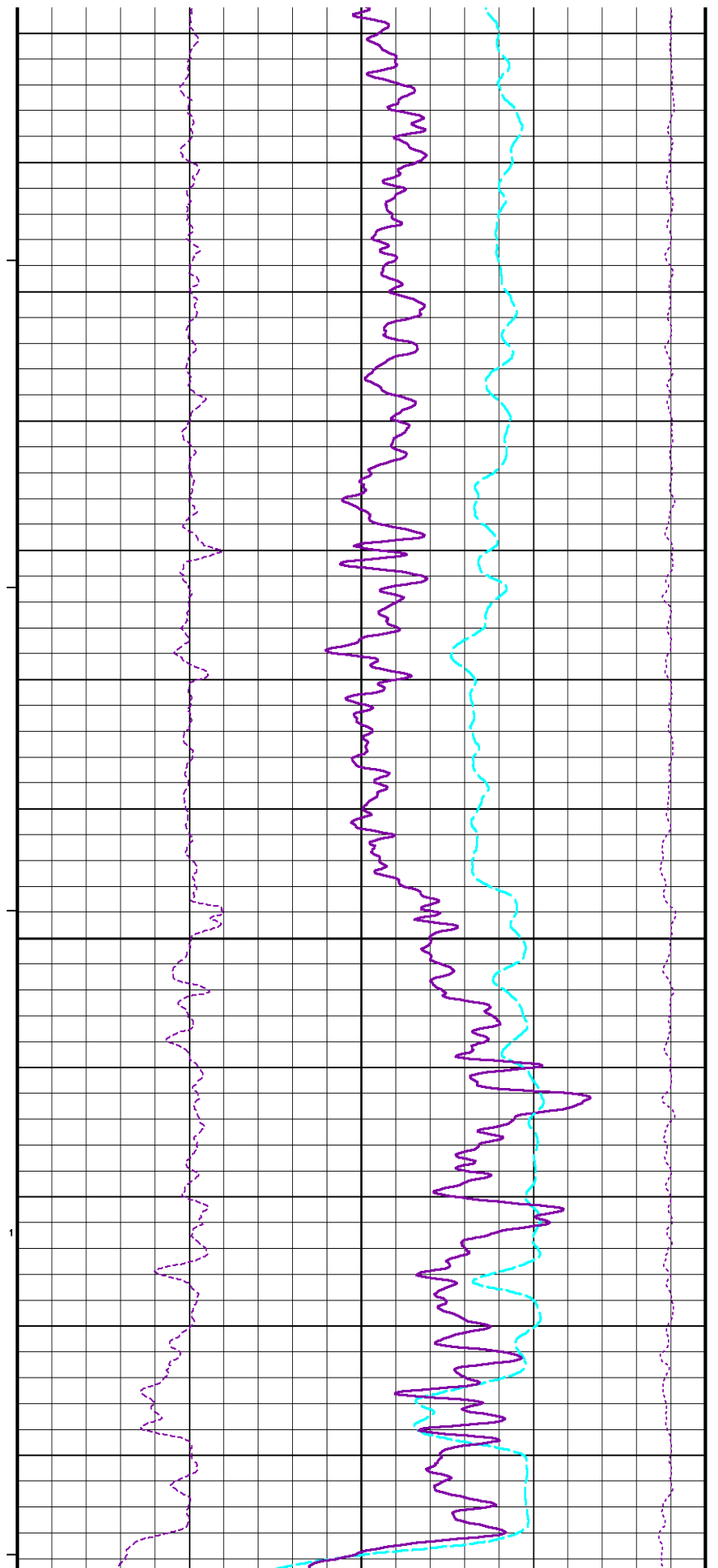
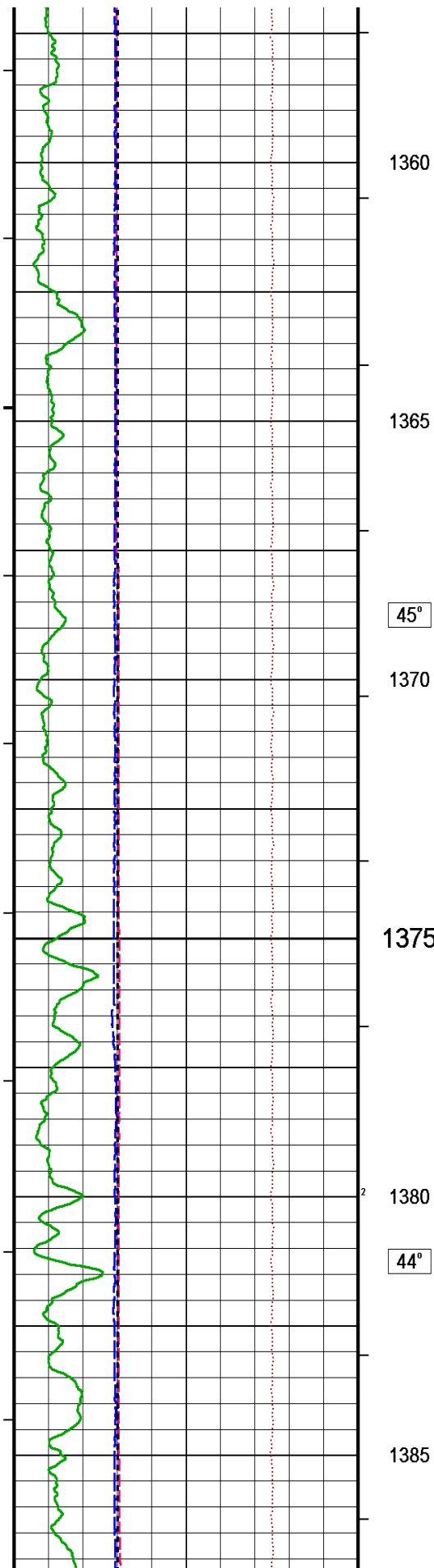


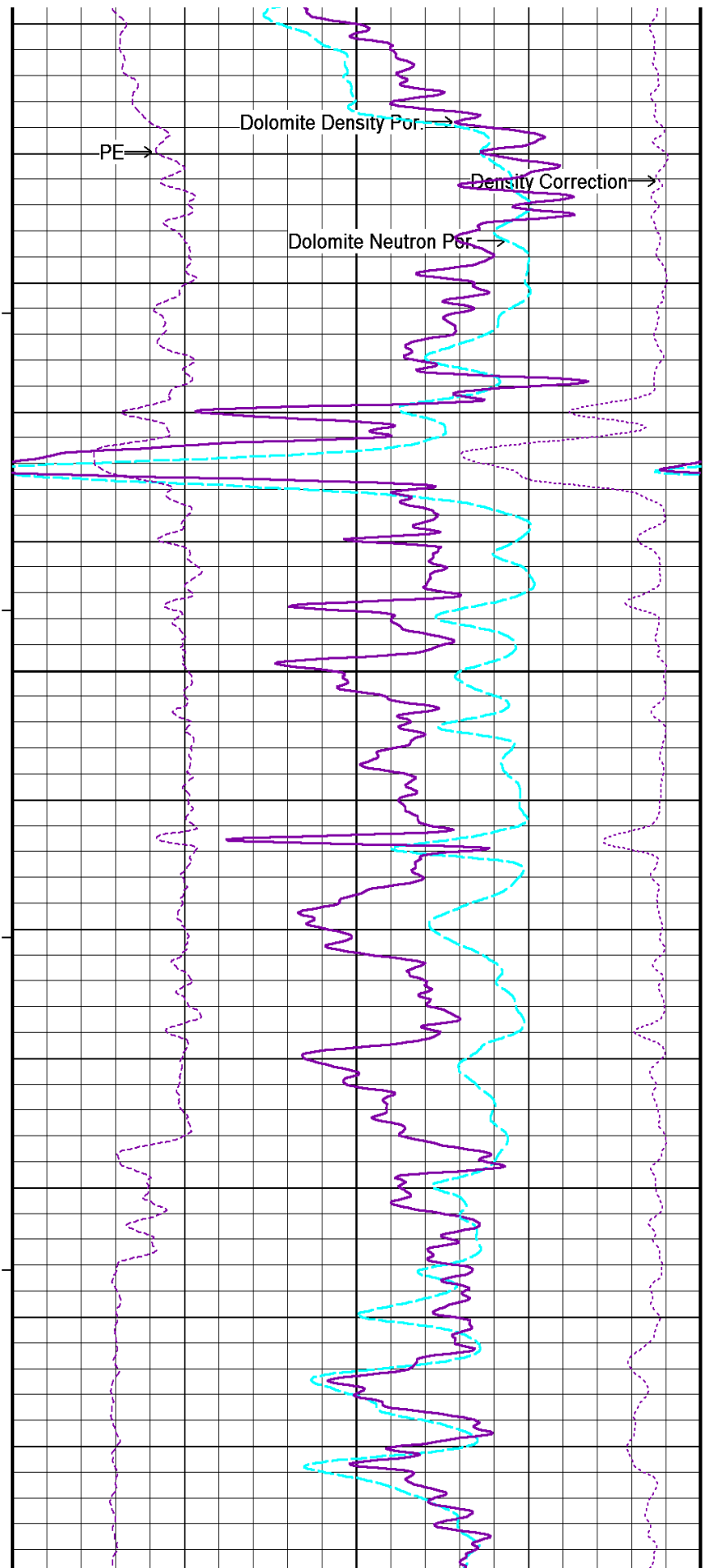
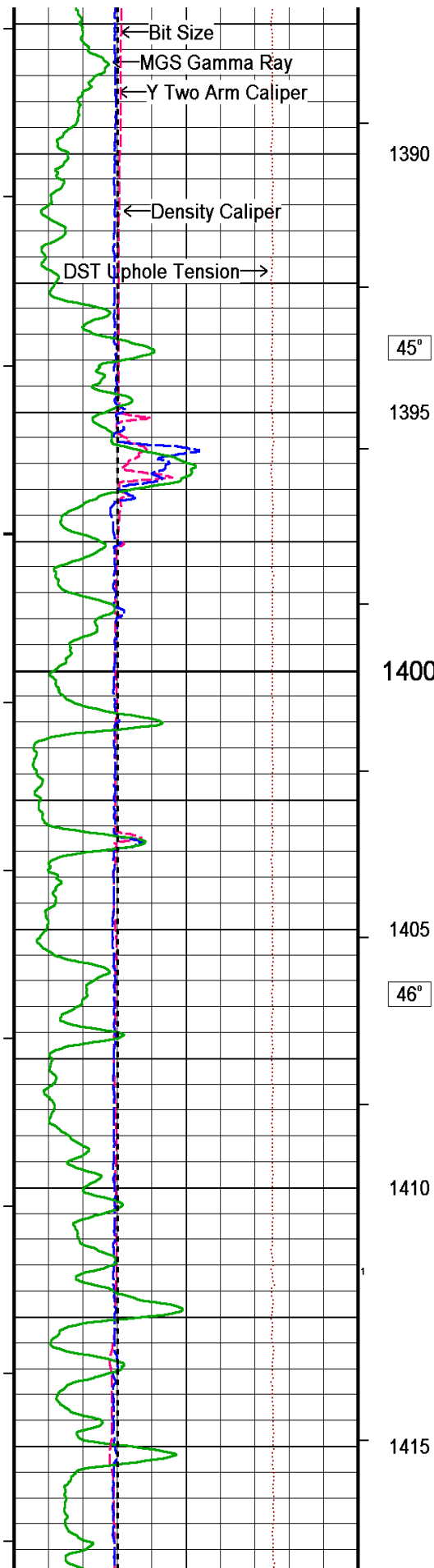


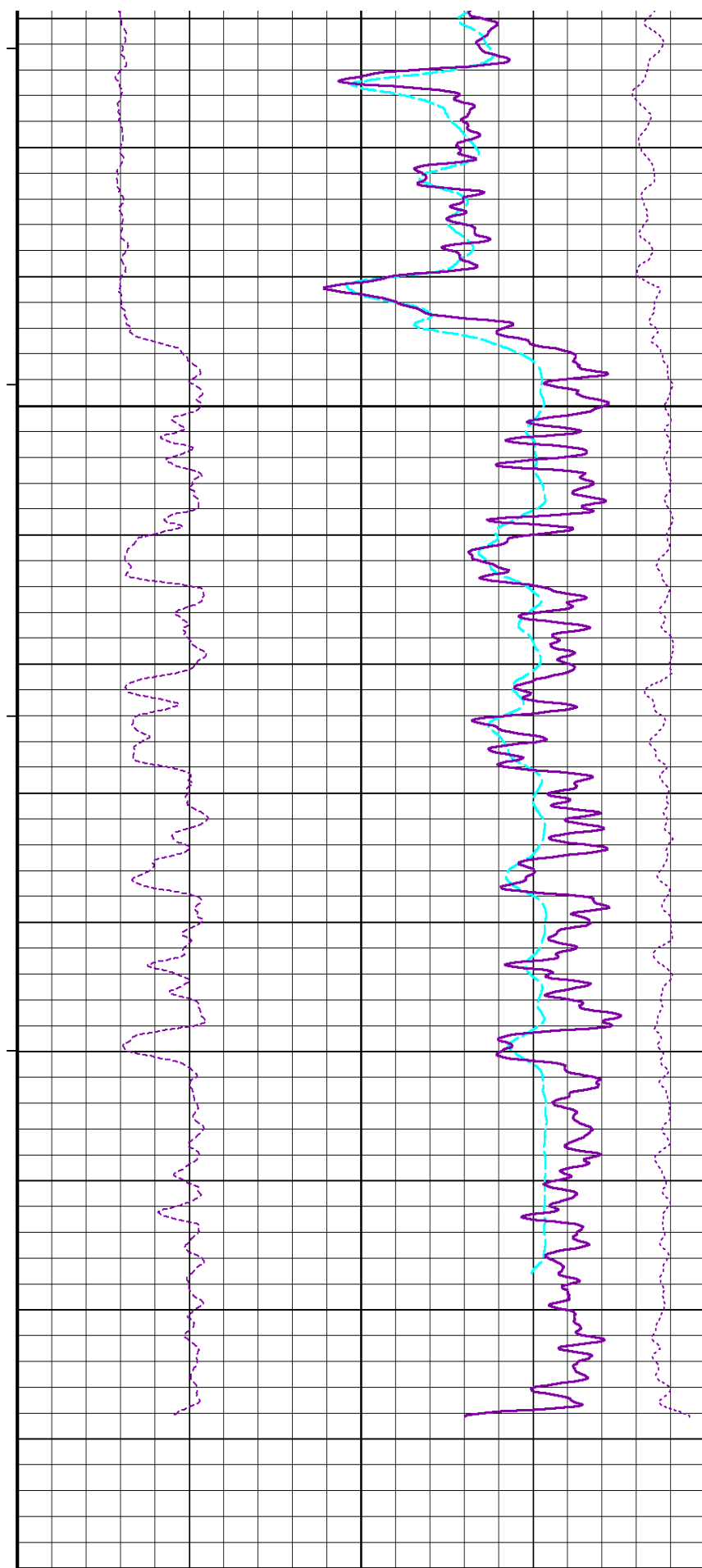
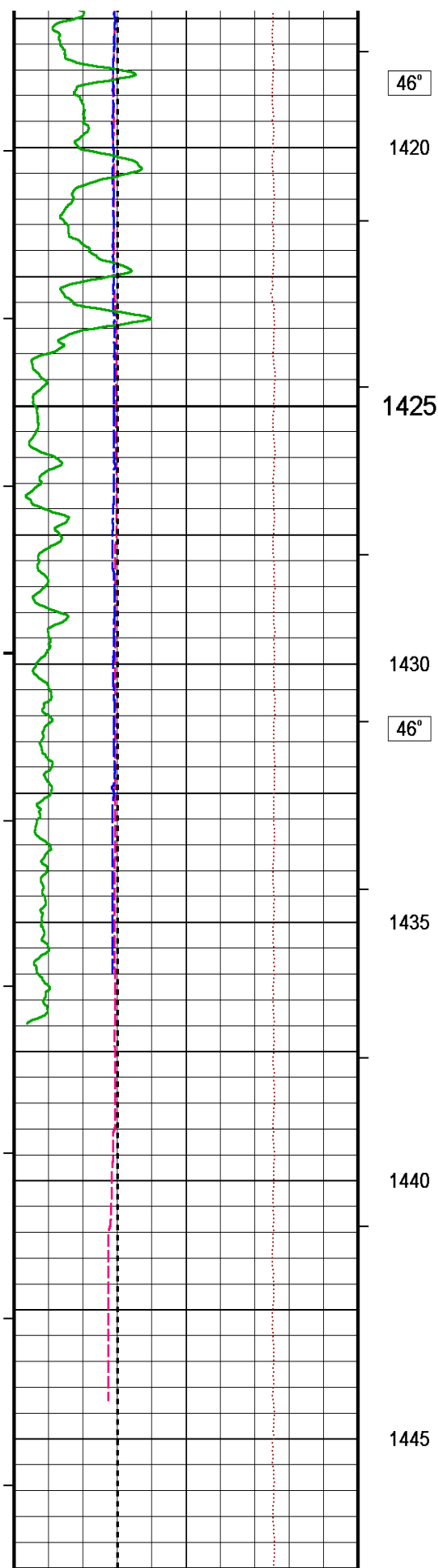


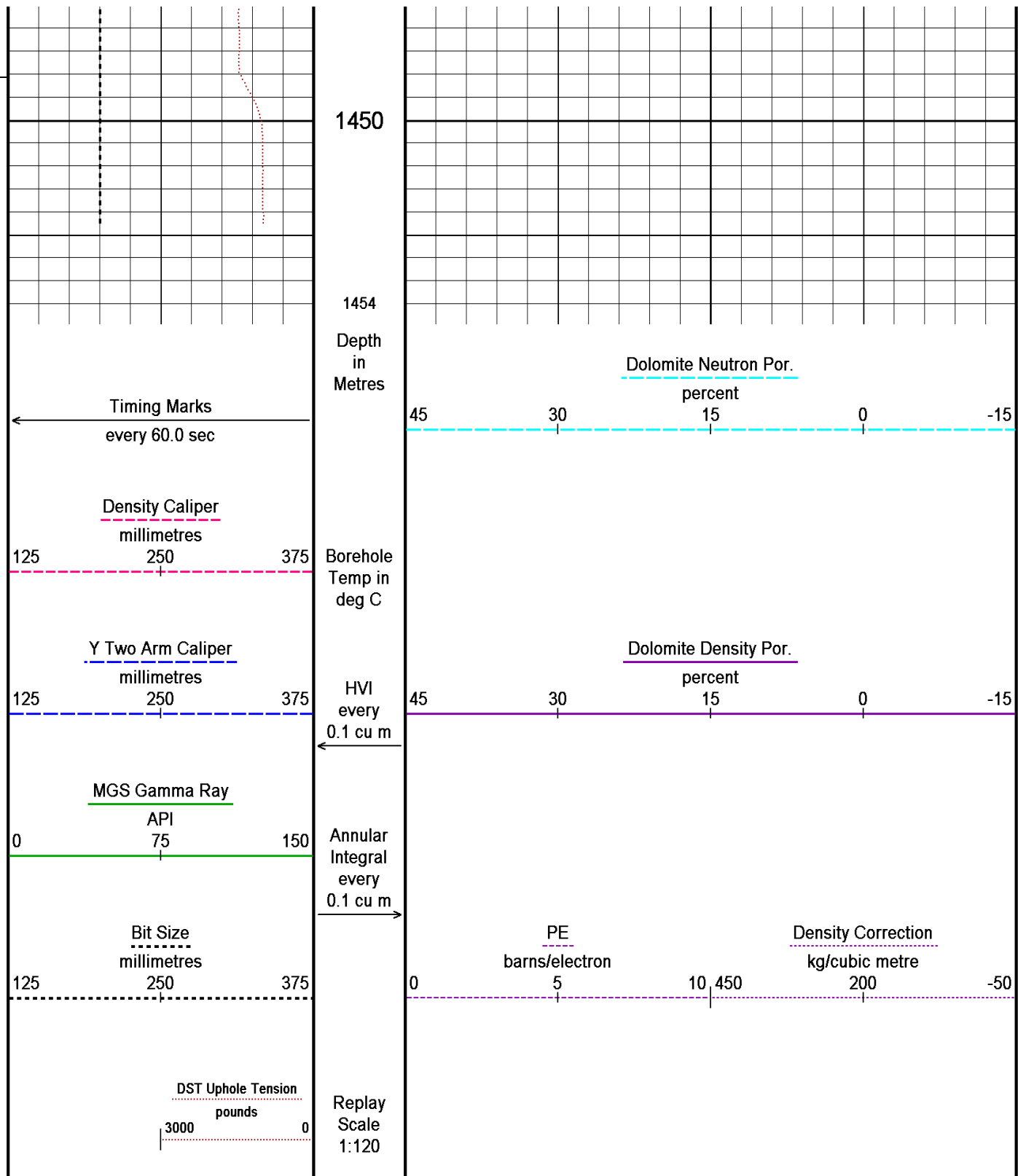












Depth Based Data - Maximum Sampling Increment 2.5cm

Filename: C:\Temp\Weatherford PreView\0\HIGH RES.dta

System Versions: Logged with 7.01.0195 Processed with 8.00.0015 Plotted with 8.01.0091

Plotted on 12-NOV-2007 09:30

Recorded on 15-FEB-2007 07:26



DOLOMITE HIGH RESOLUTION 1:120



BEFORE SURVEY CALIBRATION

General Constants All 000

Last Edited on 15-FEB-2007,06:48

General Parameters

Mud Resistivity	1.180	ohm-metres
Mud Resistivity Temperature	25.000	degrees C
Water Level	0.000	metres
Density/Neutron Processing	Wet Hole	

Hole/Annular Volume and Differential Caliper Parameters

HVOL Caliper 1	Density Caliper	
HVOL Caliper 2	Y Two Arm Caliper	
Annular Volume Diameter	139.700	mm
Caliper for Differential Caliper	Density Caliper	

Rwa Parameters

Porosity used	Base Density Porosity
Resistivity used	Deep Induction
RWA Constant A	0.610
RWA Constant M	2.150

High Resolution Temperature Calibration MCG 159

Field Calibration on 28-NOV-2006,15:40

	Measured	Calibrated(Deg C)
Lower	10.00	10.00
Upper	50.00	50.00

High Resolution Temperature Constants MCG 159

Last Edited on 28-NOV-2006,15:40

Pre-filter Length	11
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Caliper Calibration MTC 006

Base Calibration on 25-JAN-2007,18:14

Field Calibration on 10-FEB-2007,20:21

Base Calibration

Reading No	Measured	Calibrator Size (mm)
1	14734	110.00
2	17539	162.00
3	20248	212.00
4	22990	262.00
5	25897	311.00
6	N/A	N/A

Field Calibration

Measured Caliper (mm)	Actual Caliper (mm)
208.70	205.70

Gamma Calibration MGS 010

Field Calibration on 7-FEB-2007,09:09

	Measured	Calibrated (API)
Background	48	31
Calibrator (Gross)	1256	825
Calibrator (Net)	1208	794

Gamma Constants MGS 010

Last Edited on 15-FEB-2007,06:48

Gamma Calibrator Number	grcc075	
Mud Density	1060.00	kg/m3
Caliper Source for Processing	Density Caliper	
Tool Position	Centred	
Concentration of KCl	0.00	kppm

Neutron Calibration MDN 144

Base Calibration on 25-JAN-2007 18:05

Field Check on 15-FEB-2007 05:21

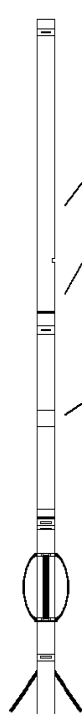
Base Calibration

Measured	Calibrated (cps)
----------	------------------

	near	far	near	far
	2967	93	3714	110
Ratio	31.886		33.764	
Field Calibrator at Base	Calibrated (cps)			
	2065		2999	
Ratio	0.689			
Field Check	Calibrated (cps)			
	2094		3091	
Ratio	0.677			
Neutron Constants MDN 144			Last Edited on 18-JAN-2007,02:18	
Neutron Source Id	16145b			
Neutron Jig Number				
Epithermal Neutron	No			
Caliper Source for Processing	Density Caliper			
Stand-off	0.00		mm	
Mud Density	1000.00		kg/m3	
Limestone Sigma	7.10		cu	
Sandstone Sigma	4.26		cu	
Dolomite Sigma	4.70		cu	
Formation Pressure Source	Constant Value			
Formation Pressure	0.00		kPa	
Temperature Source	MCG External Temperature			
Temperature	20.00		degrees C	
Mud Salinity	0.00		kppm	
Formation Fluid Salinity Source	Constant Value			
Formation Fluid Salinity	0.00		kppm	
Barite Mud Correction	Not Applied			
Photo Density Calibration MPD 036			Base Calibration on 8-MAR-2007,10:54 Field Check on	
Density Calibration				
Base Calibration	Measured		Calibrated (sdu)	
	Near	Far	Near	Far
Reference 1	52802	28585	60352	31615
Reference 2	21780	2767	25043	2540
Field Check at Base	1184.8		1494.9	
Field Check	0.0		0.0	
PE Calibration				
Base Calibration	Measured		Calibrated	
	WS	WH	Ratio	Ratio
Background	213	1052		
Reference 1	22151	53000	0.422	0.400
Reference 2	5909	20800	0.288	0.272
Field Check at Base	213.1		1051.7	
Field Check	0.0		0.0	
Density Constants MPD 036			Last Edited on 15-FEB-2007,04:55	
Density Source Id	2834GW			
Nylon Calibrator Number	608			
Aluminium/Fe Calibrator Number	608			
Density Shoe Profile	4 inch			

Caliper Source for Processing	Density Caliper	
PE Correction to Density	Not Applied	
Mud Density	1000.00	kg/m3
Mud Density Z/A Correction	1.11	
Mud Filtrate Density	1000.00	kg/m3
Dry Hole Mud Filtrate Density	1000.00	kg/m3
DNCT	0.00	kg/m3
CRCT	0.00	kg/m3
Density Z/A Correction	Advanced	
Matrix Density (kg/m3)	Depth (m)	
2710.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	
Caliper Calibration MPD 036		
Base Calibration		Base Calibration on 23-JAN-2007 04:20
		Field Calibration on 7-FEB-2007,11:28
Reading No	Measured	Calibrator Size (mm)
1	18576	110.00
2	28032	162.00
3	37841	212.00
4	48080	262.00
5	57920	311.00
6	N/A	N/A
Field Calibration		
	Measured Caliper (mm)	Actual Caliper (mm)
	166.10	166.10

DOWNHOLE EQUIPMENT			C:\Temp\Weatherford PreView\0\REPEAT.dta	
Compact Gamma MCG 159 Length: 2.65 m	Weight: 63.9 lb		20.78 m	GRGC - Gamma Ray
			19.90 m	CGXT - MCG External Temperature
Compact Focused Electric MFE 17 Length: 1.84 m	Weight: 48.5 lb		18.79 m	FEFE - Shallow FE
Compact Two Arm Caliper MTC 6 Length: 2.17 m	Weight: 61.7 lb		16.33 m	CLYC - Y Two Arm Caliper



Compact Short Gamma
MGS 10 Length: 1.04 m Weight: 24.3 lb

Compact InterSonde Crank
ISC 159 Length: 0.70 m Weight: 24.3 lb

Compact Micro-log
MML 15 Length: 2.43 m Weight: 81.6 lb

Compact Neutron
MDN 144 Length: 1.53 m Weight: 50.7 lb

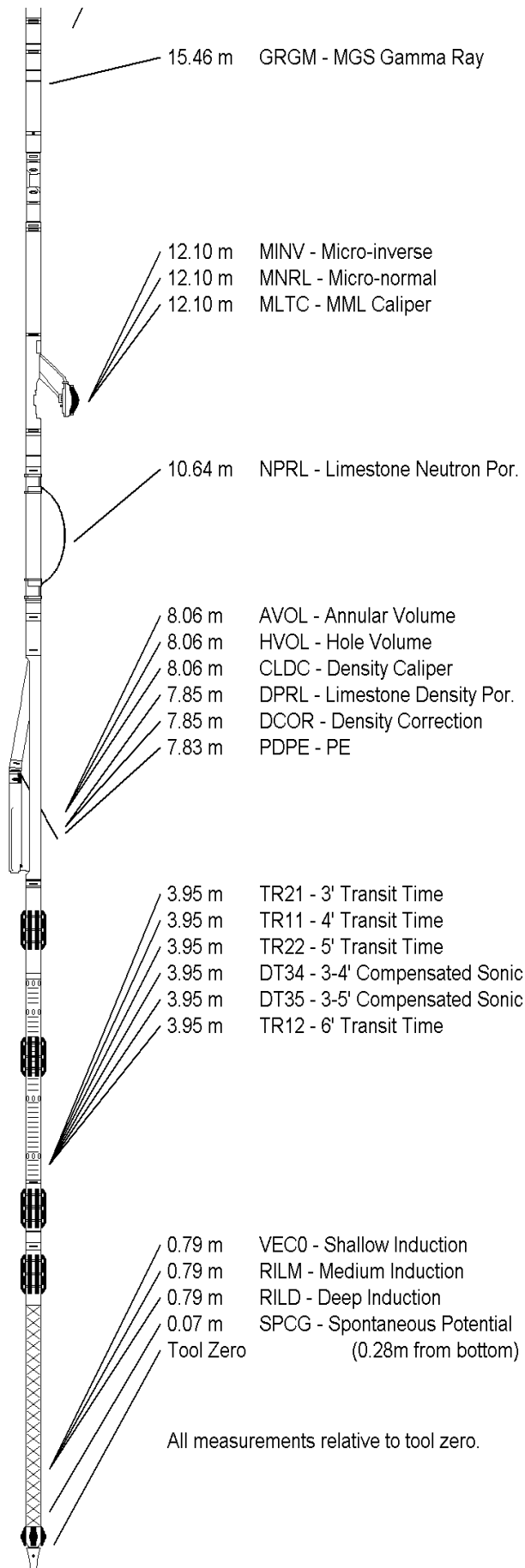
Compact Density/Caliper
MPD 36 Length: 2.92 m Weight: 90.4 lb

Compact Sonic
MSS 60 Length: 3.82 m Weight: 72.8 lb

Compact Induction
MAI 72 Length: 3.29 m Weight: 48.5 lb

Compact Hole Finder
HFS 1 Length: 0.24 m Weight: 2.2 lb

Total Length: 22.63 m Weight: 568.8 lb



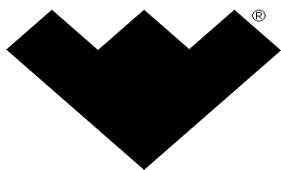
COMPANY	PARAMOUNT RESOURCES LTD.
WELL	PARAMOUNT ET AL CAMERON J-04
FIELD	CAMERON HILLS
PROVINCE/COUNTY	NORTH WEST TERRITORIES
COUNTRY/STATE	CANADA

Elevation Kelly Bushing	769.20	metres	First Reading	1441.60	metre
Elevation Drill Floor		metres	Depth Driller	1449.00	metres
Elevation Ground Level	765.20	metres	Depth Logger	1449.50	metres



Weatherford®

PHOTO DENSITY
DUAL SPACED NEUTRON



MINIPILOT

COMPANY **PARAMOUNT RESOURCES LTD.**
WELL **PARAMOUNT ET AL CAMERON J-04**
FIELD **CAMERON HILLS**
PROVINCE/COUNTY **NORTH WEST TERRITORIES**
COUNTRY/STATE **CANADA**
LOCATION **300/J-04-60-10-117-30**

FIELD PRINT

LSD	SEC	TWP	RGE	Other Services
API Number				MICROLOG
Permit Number 1159				COMPENSTATED SONIC
Permanent Datum GROUND LEVEL, Elevation 765.20 metres				Elevations: metres
Log Measured From 4.00 M above Permanent Datum				KB 769.20
Drilling Measured From KB				DF
				GL 765.20
Date	15-FEB-2007			
Run Number	1			
Depth Driller	1449.00	metres		
Depth Logger	1449.50	metres		
First Reading	1448.70	metre		
Last Reading	420.00	metre		
Casing Driller	430.00	metres		
Casing Logger	429.80	metres		
Bit Size	200.00	mm		
Hole Fluid Type	GELCHEM			
Density / Viscosity	1060.0 kg/M3	93.00 CP		
PH / Fluid Loss	11.00	11.00 ml/30Min		
Sample Source	FLOWLINE			
Rm @ Measured Temp	1.18 @ 25.0	ohm-m		
Rmf @ Measured Temp	1.04 @ 25.0	ohm-m		
Rmc @ Measured Temp	1.32 @ 25.0	ohm-m		
Source Rmf / Rmc	PRESS	FILTER		
Rm @ BHT	0.78 @ 48.0	ohm-m		
Time Since Circulation	6 HRS			
Max Recorded Temp	48.00	deg C		
Equipment Name	COMPACT			
Equipment / Base	13124	GPR		
Recorded By	G. SINGER			
Witnessed By	A. AHMED			
CIRC. STOP TIME	01:30-FEB-15	Last Line		

BOREHOLE RECORD

Last Edited: 15-FEB-2007 05:01

Bit Size millimetres	Depth From metres	Depth To metres
311.000	0.00	430.00
200.000	430.00	1449.00

CASING RECORD

Type	Size millimetres	Depth From metres	Shoe Depth metres	Weight Kg/metre
SURFACE	219.100	0.00	430.00	35.72

REMARKS

- 1) SOFTWARE ISSUE: WLS 7.01.0195.
- 2) CUSTOMER SCALES AND LOGGED INTERVALS USED
- 3) TOOLS RUN: MAI, MSS, MPD, MDN, MML, ISC, MGS, MTC, MFE, MCG RUN IN COMBINATION
- 4) HARDWARE: MAI: TWO 25.4 MM STANDOFFS
MSS: THREE 25.4 MM STANDOFFS
MDN: DUAL BOWSPRING AND INTERSONIC CRANK
MTC: SIX LEAF CENTRALIZER

- 5) SERVICE ORDER #: 30073028
 - 6) RIG: PD 129
- SAP #: 4147101 # FIELD PRINTS = 3

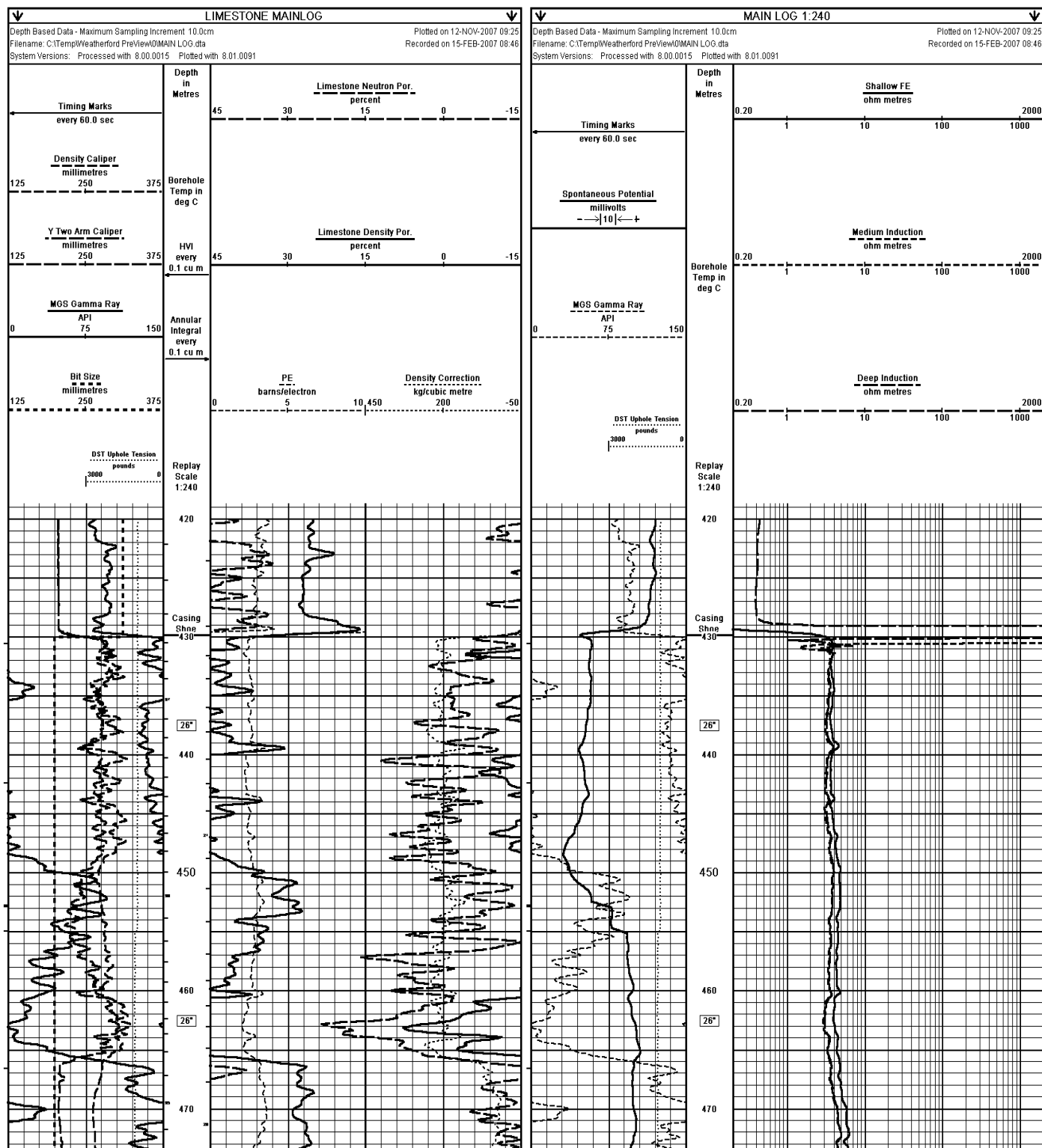
7) HOLE AND CEMENT VOLUMES CALCULATED USING DENSITY AND 2-ARM CALIPERS :

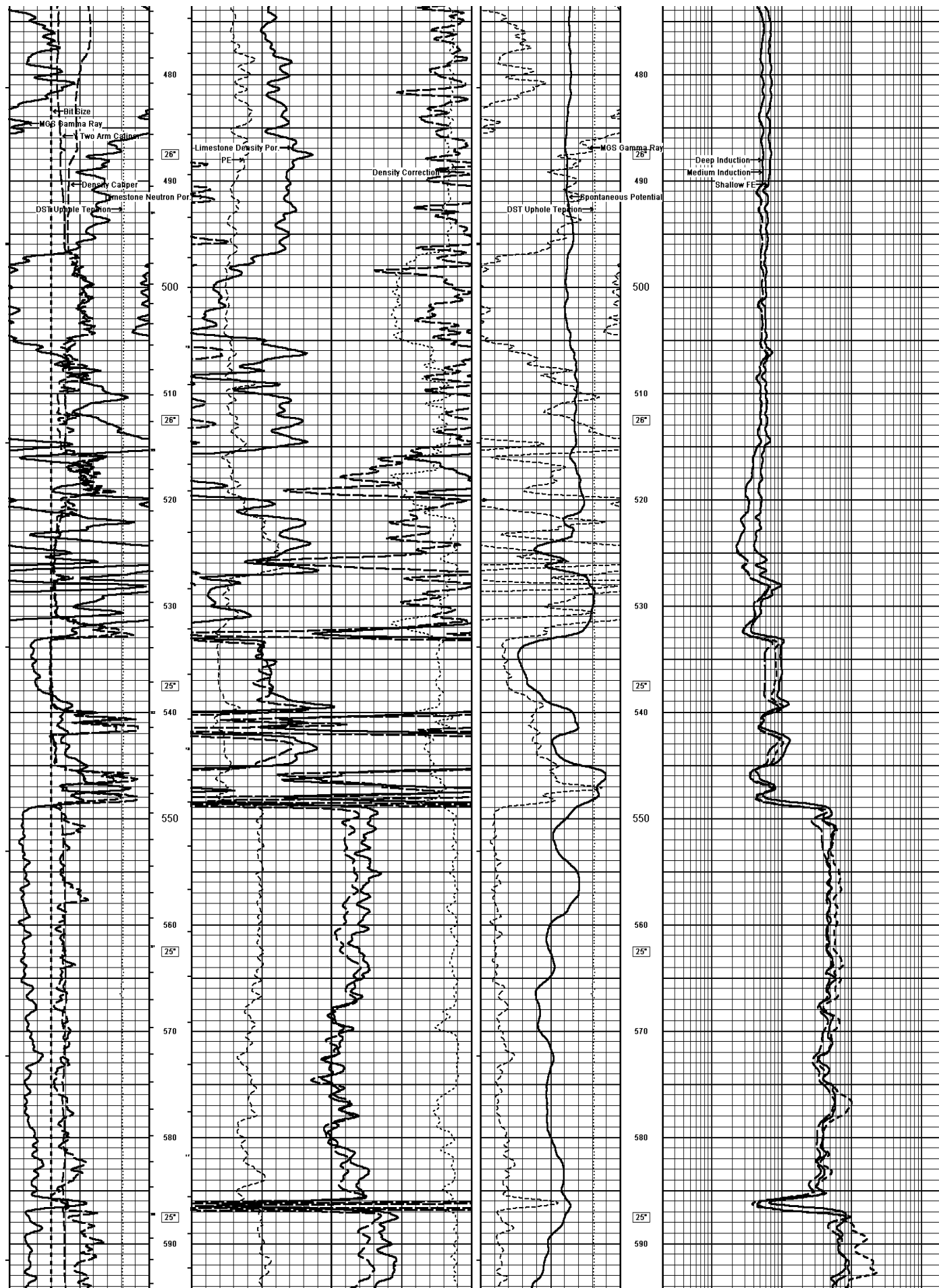
HOLE VOLUME = 37.4 CU.M.

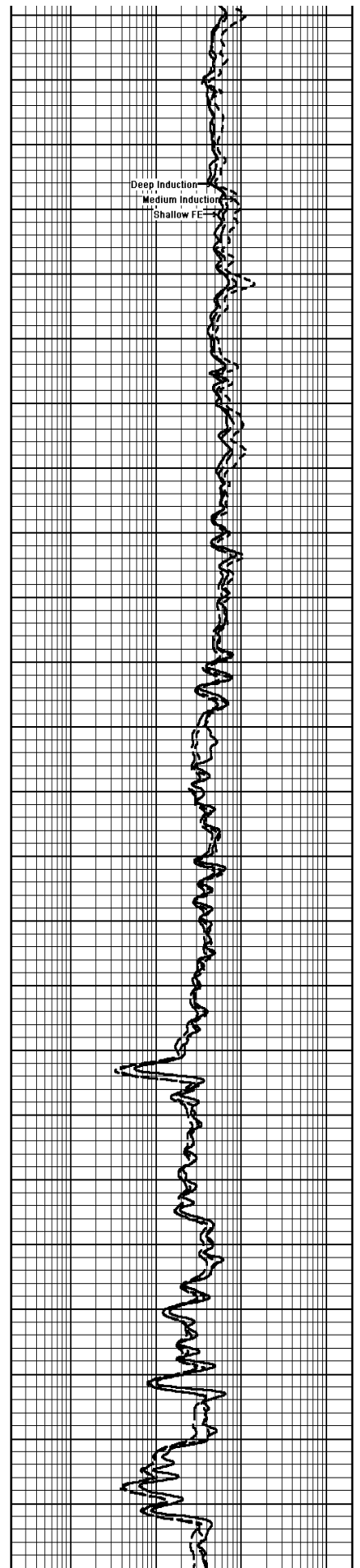
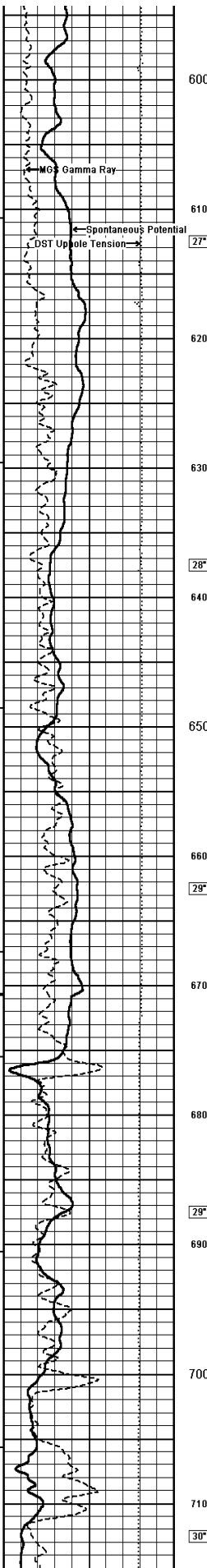
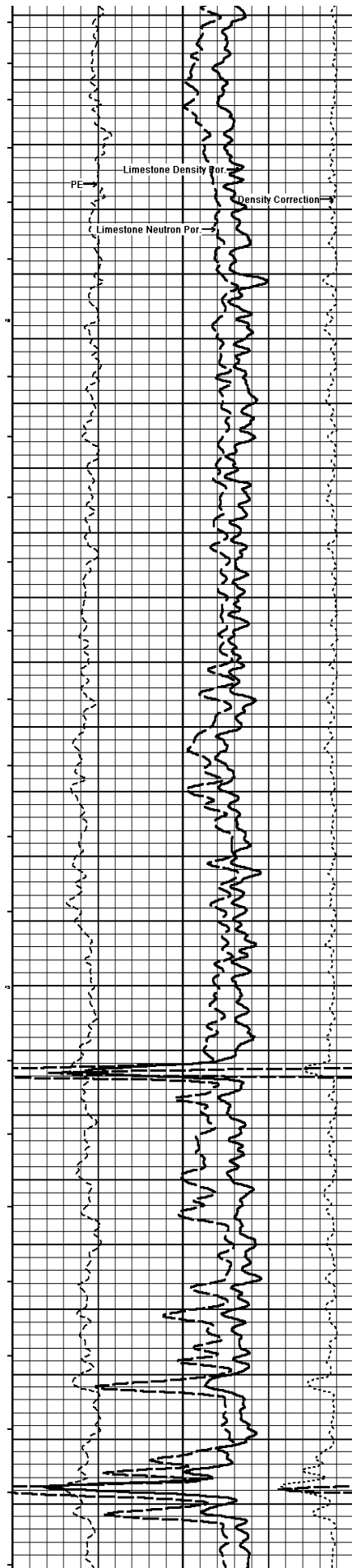
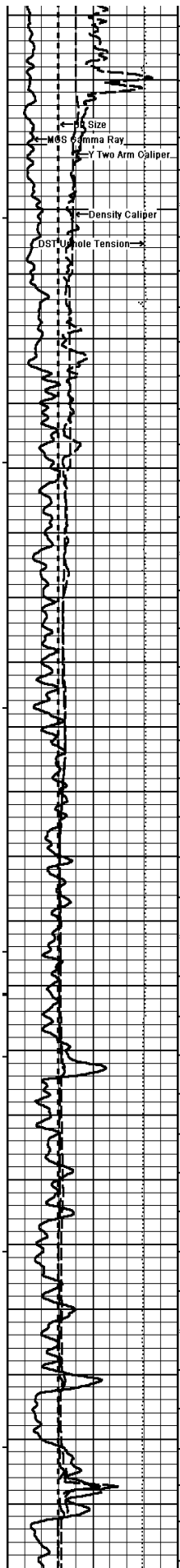
ANNULAR VOLUME USING 139.7 MM PRODUCTION CASING = 21.8 CU.M

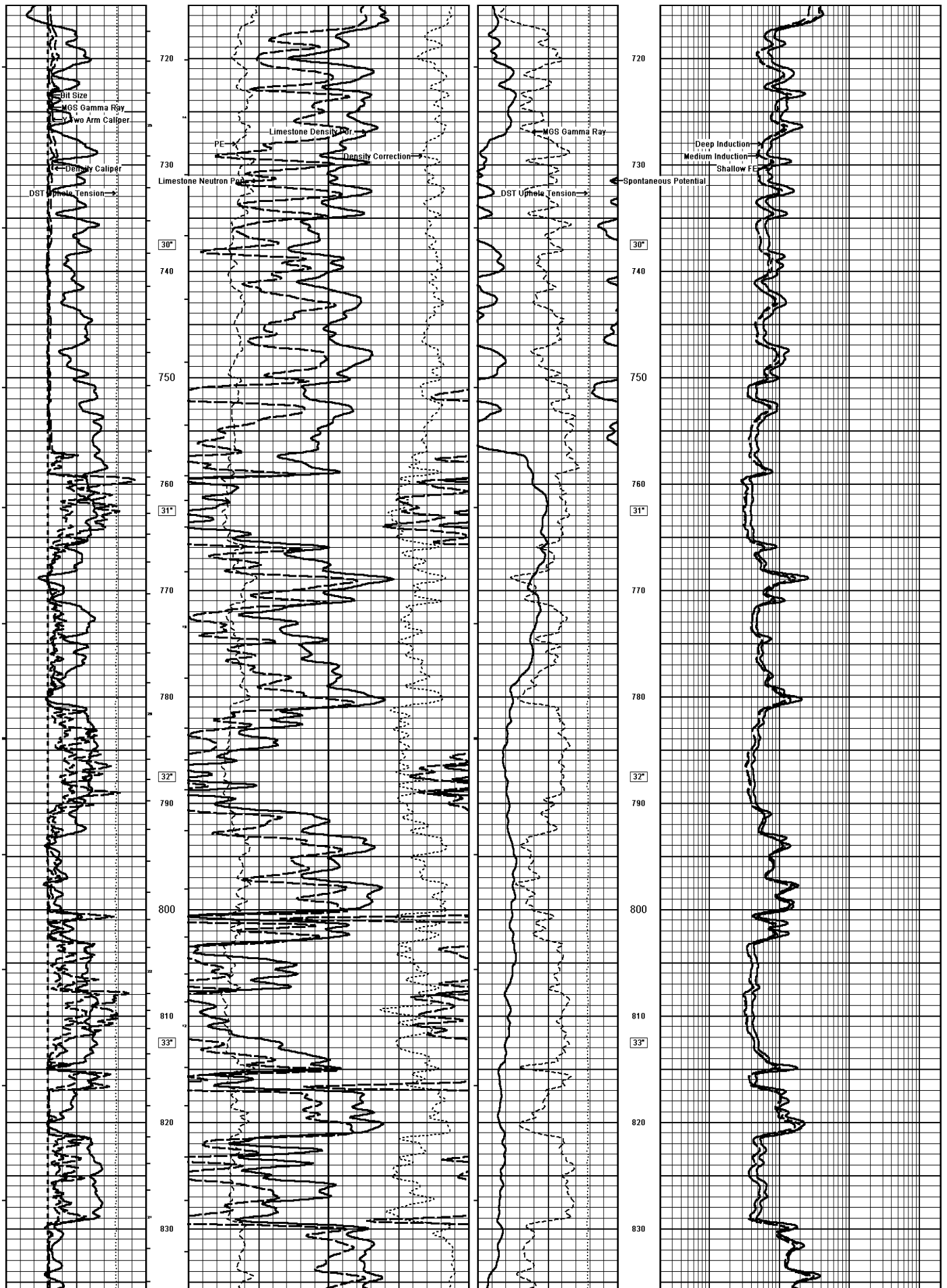
8) SONIC FREE PIPE FOUND FROM 352M - 357M

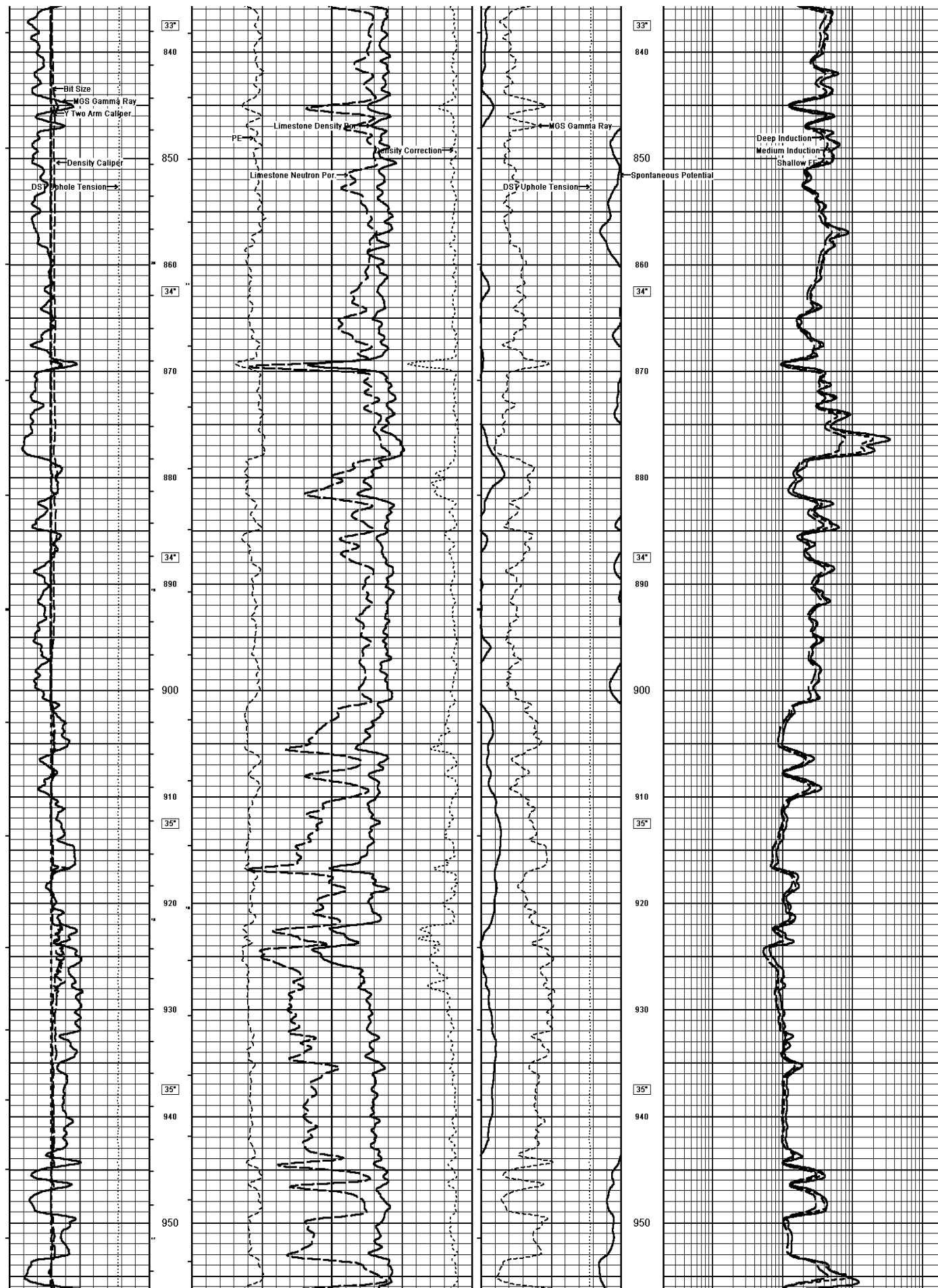
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs,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

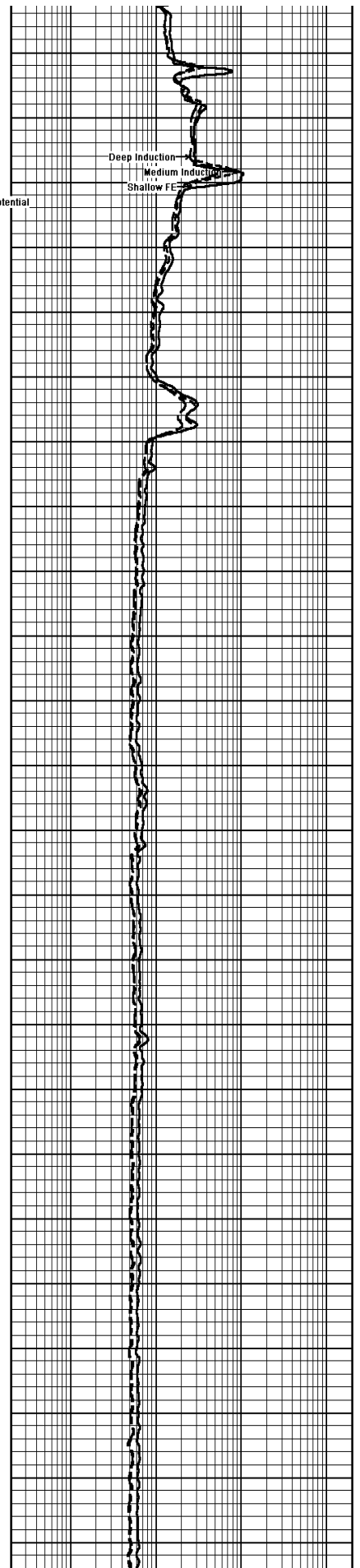
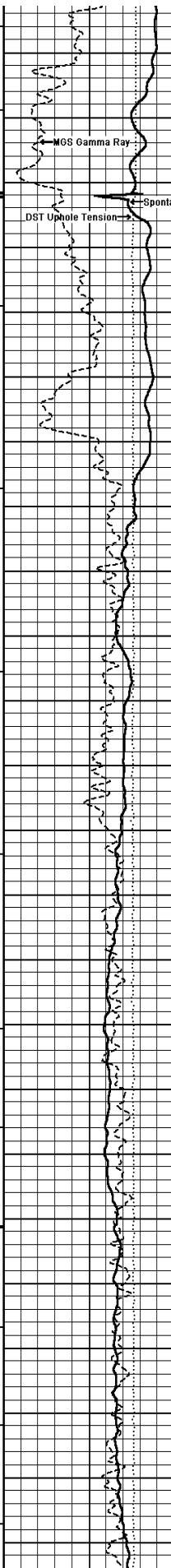
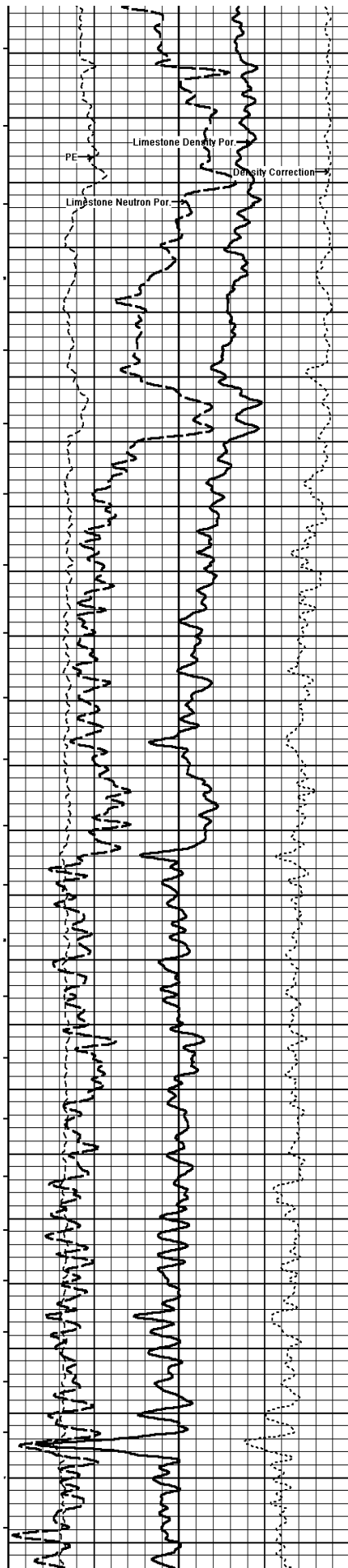
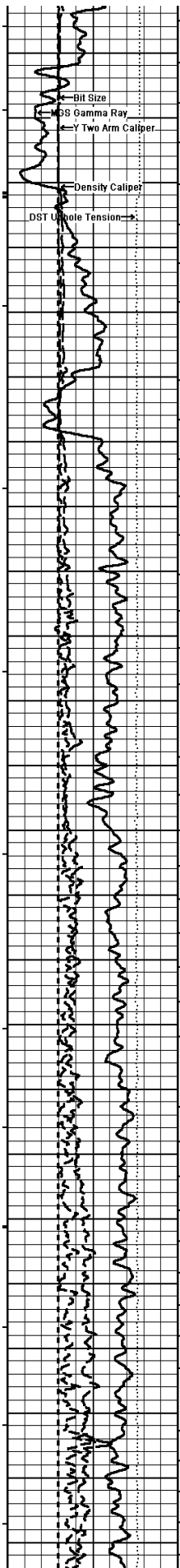


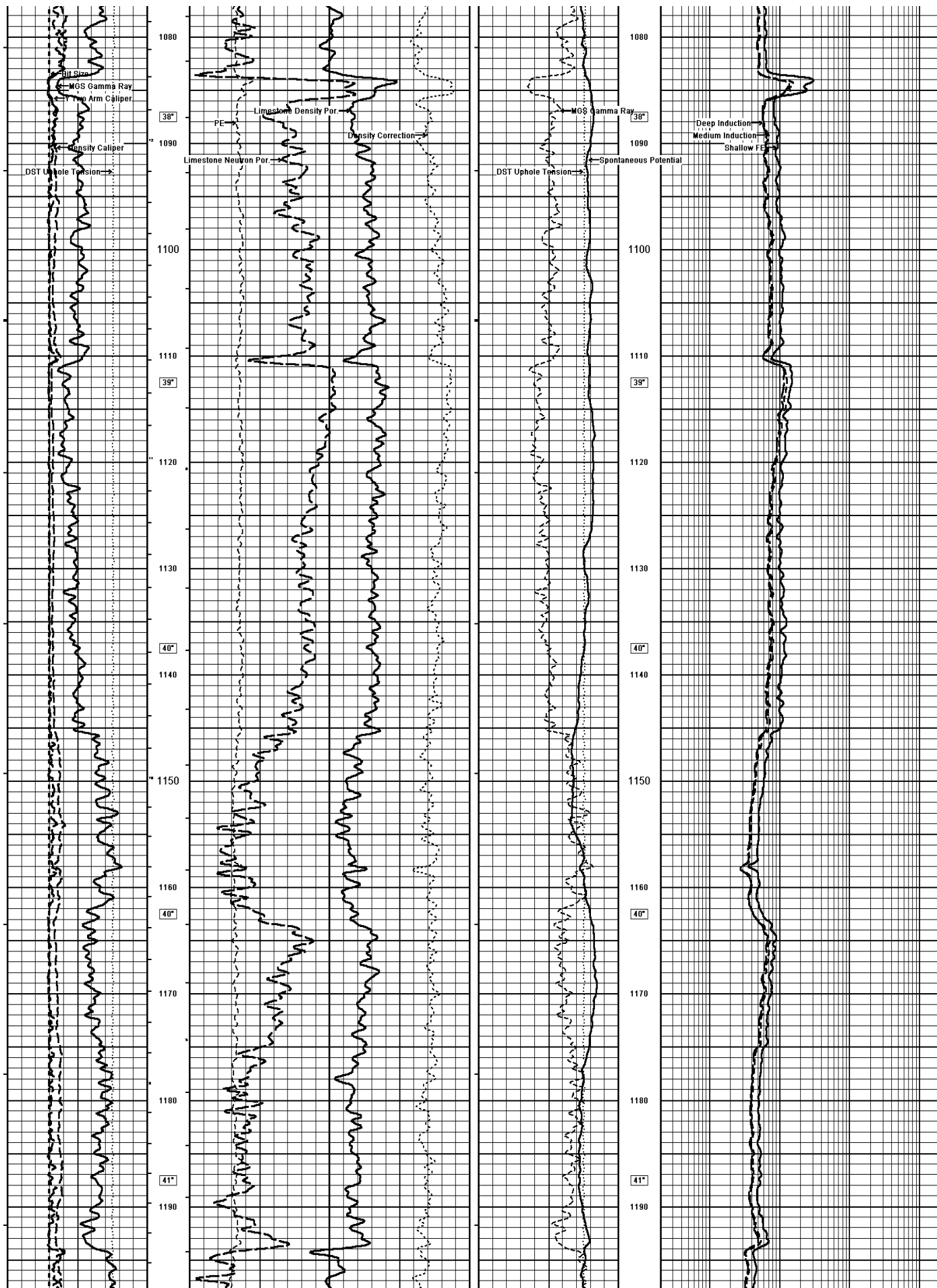


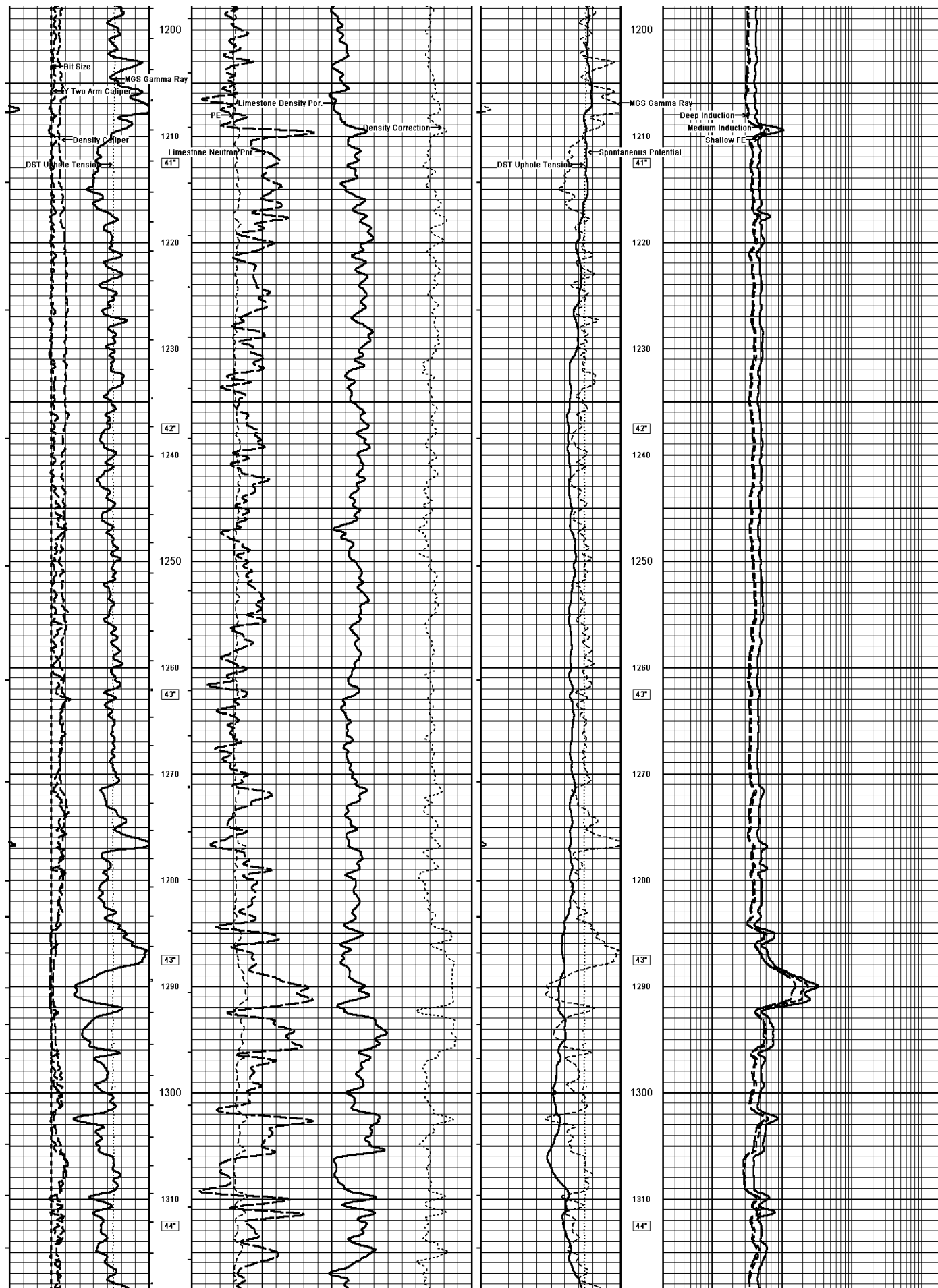


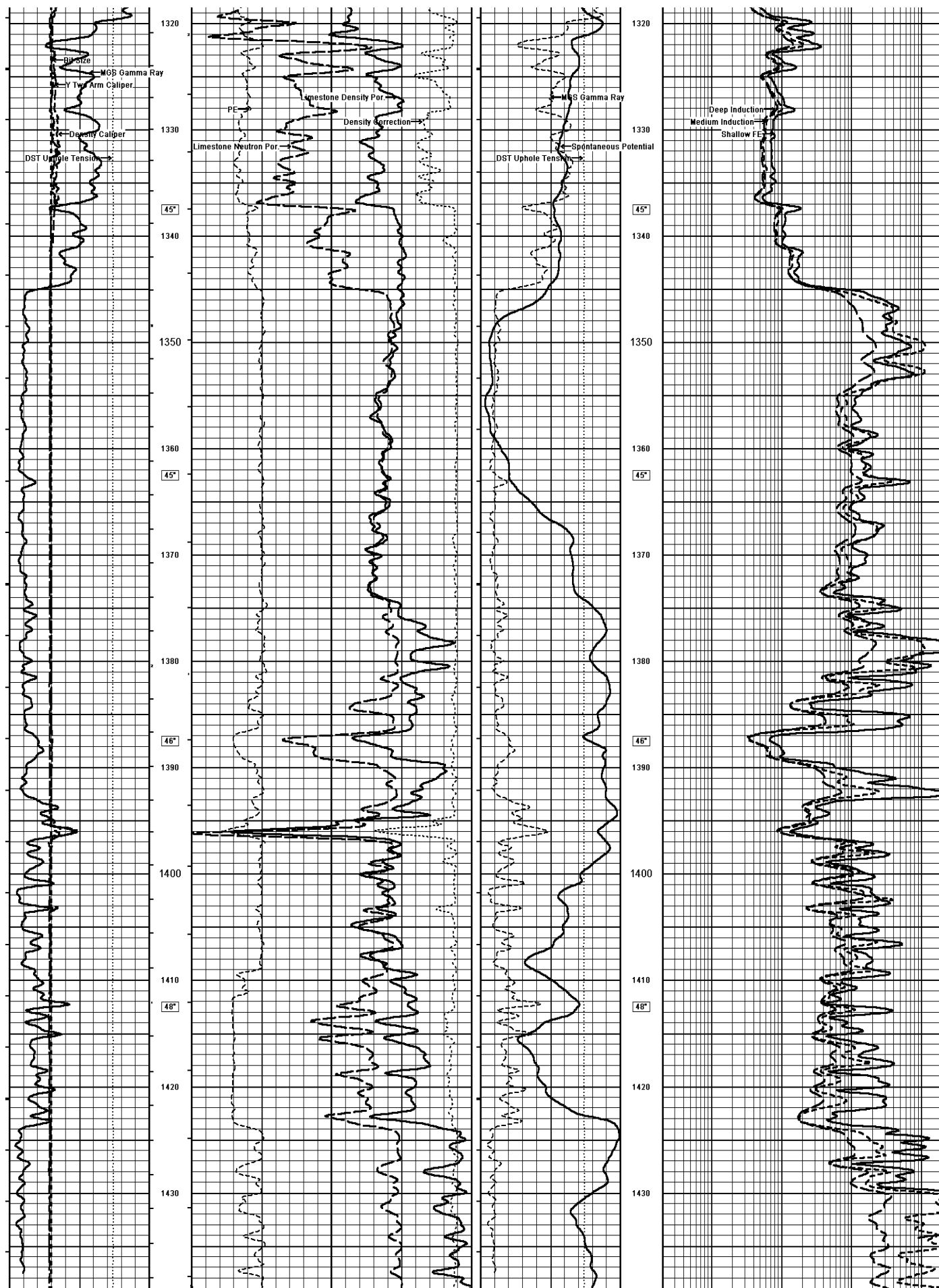


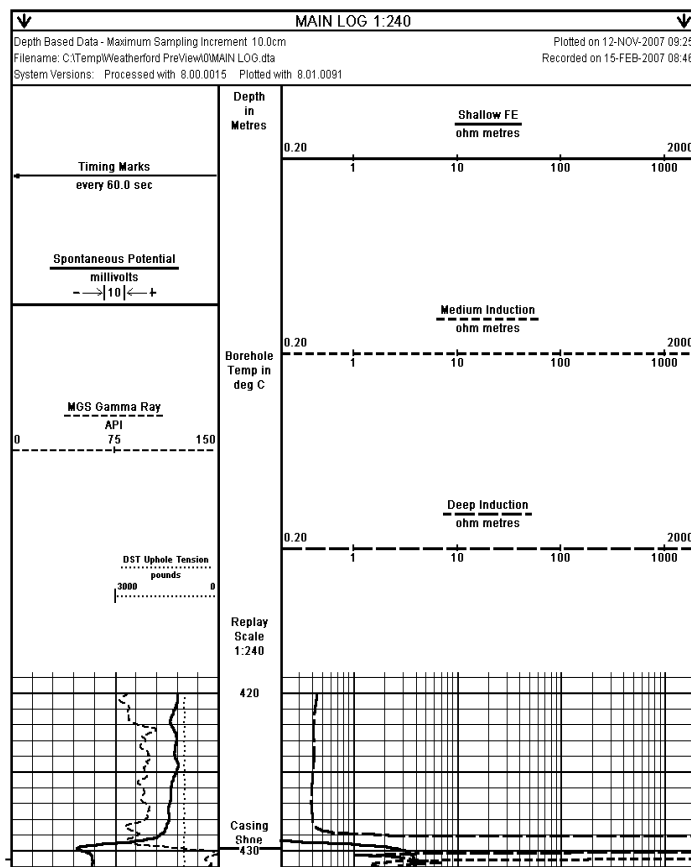
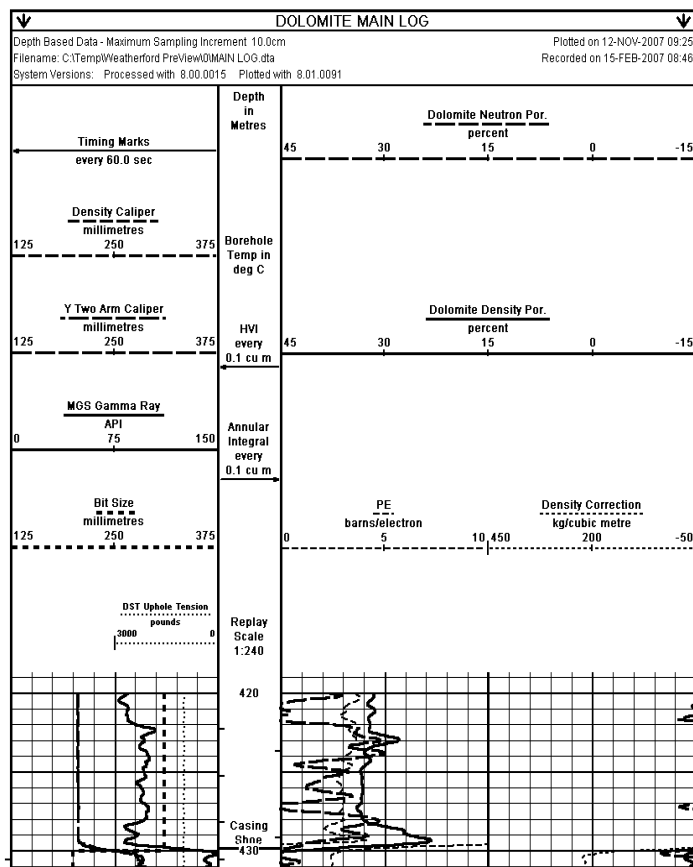
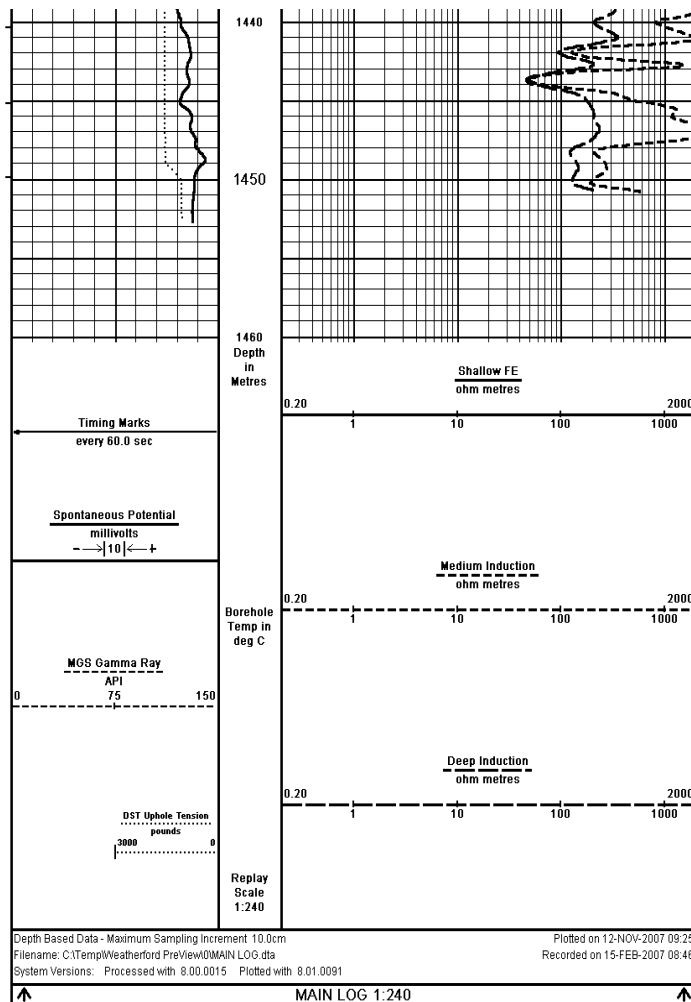
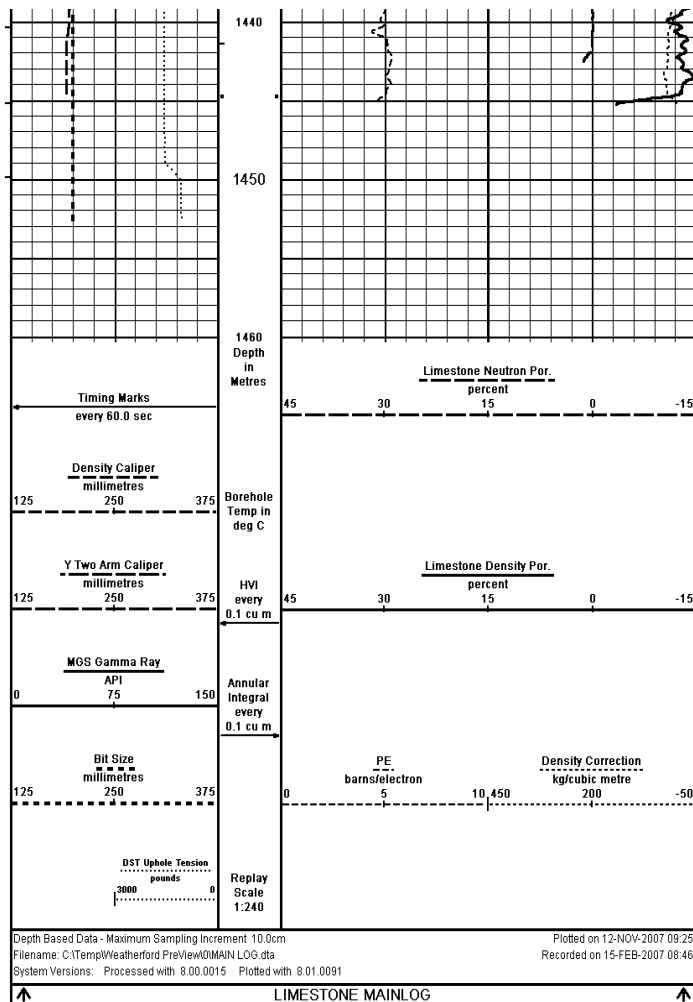


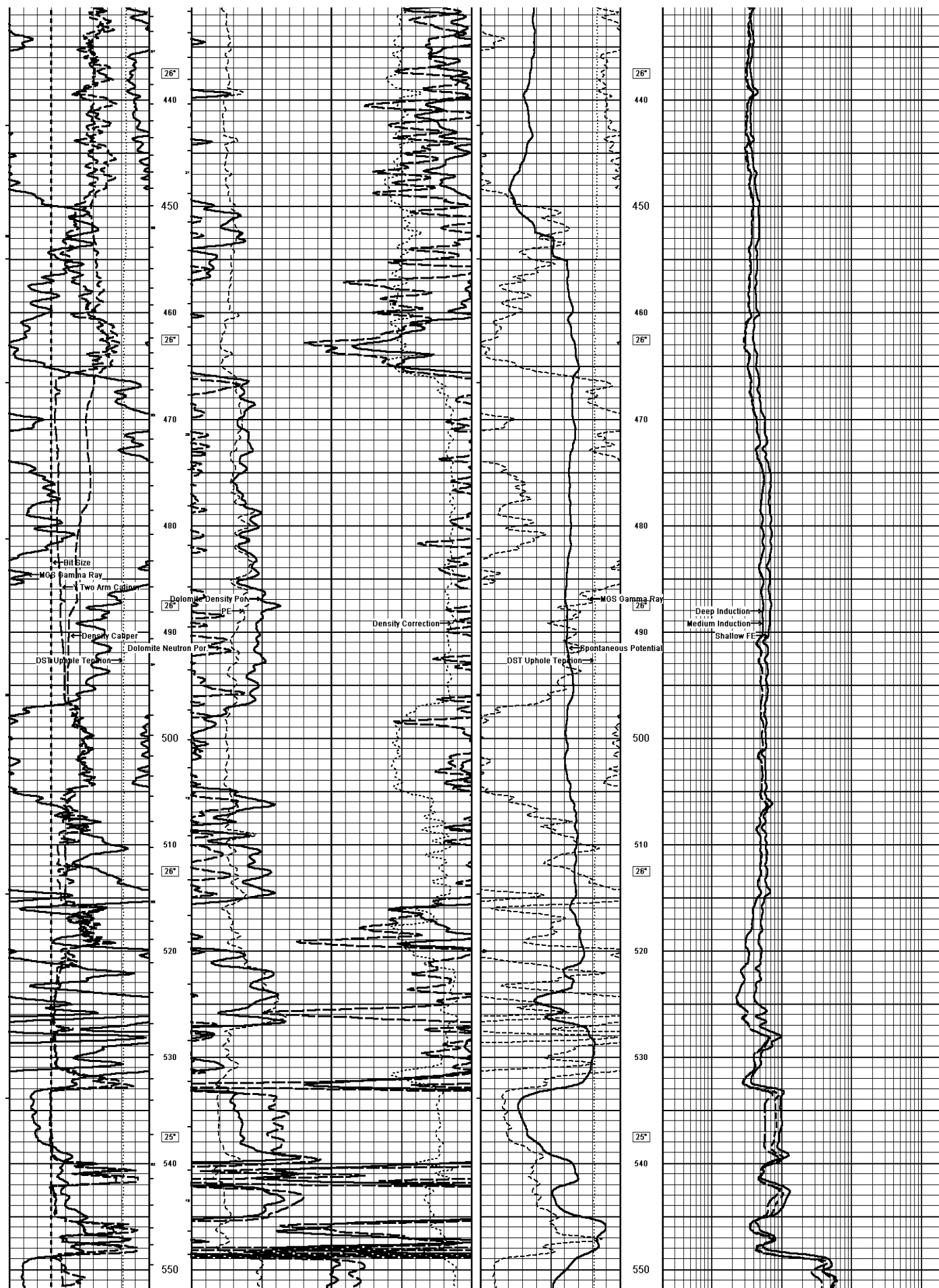


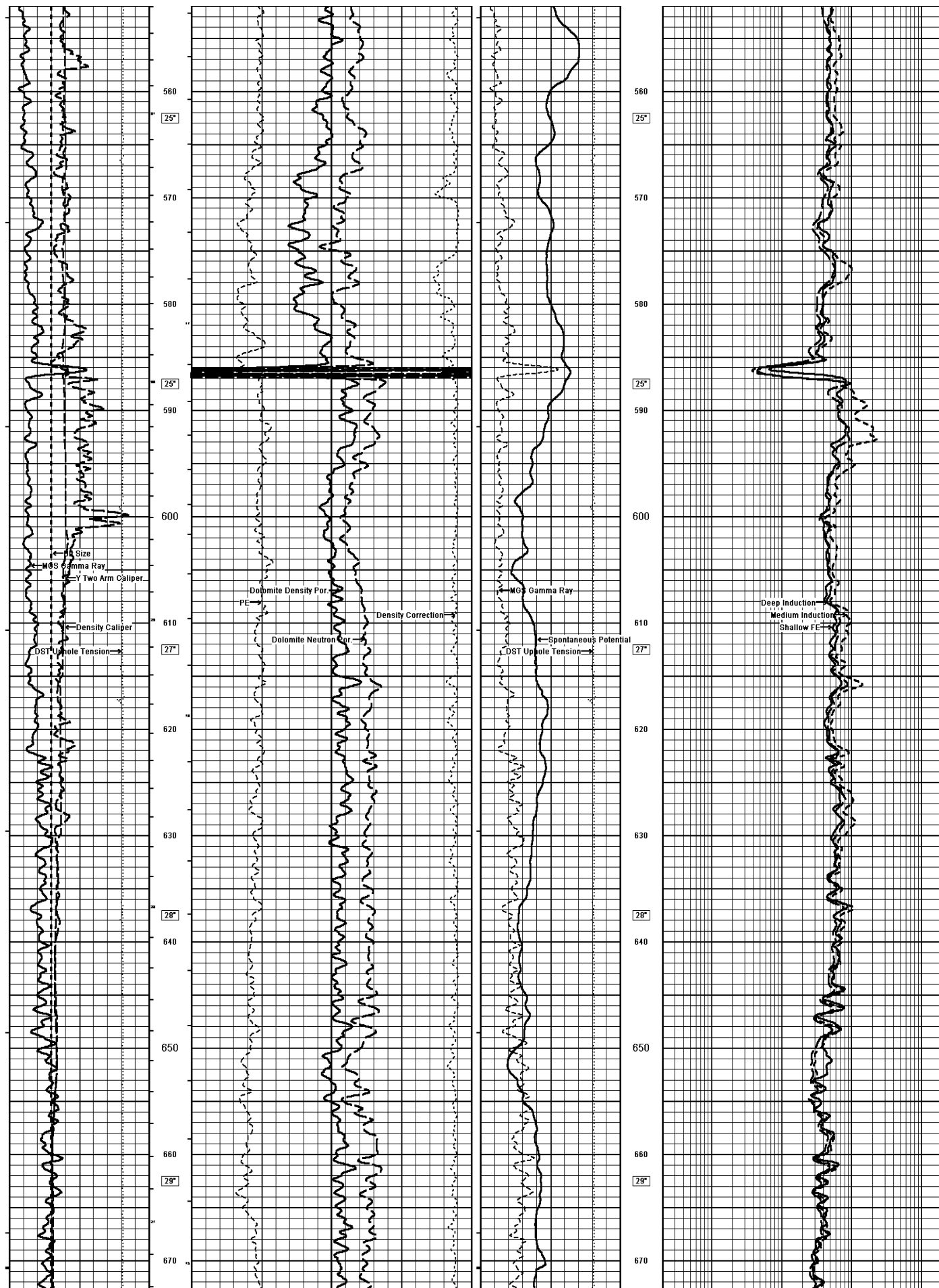






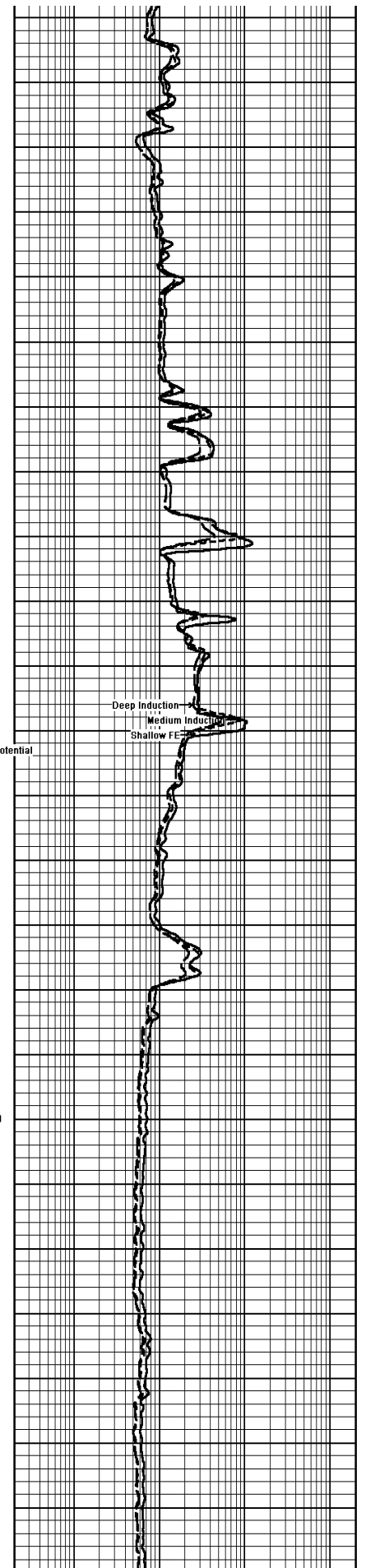
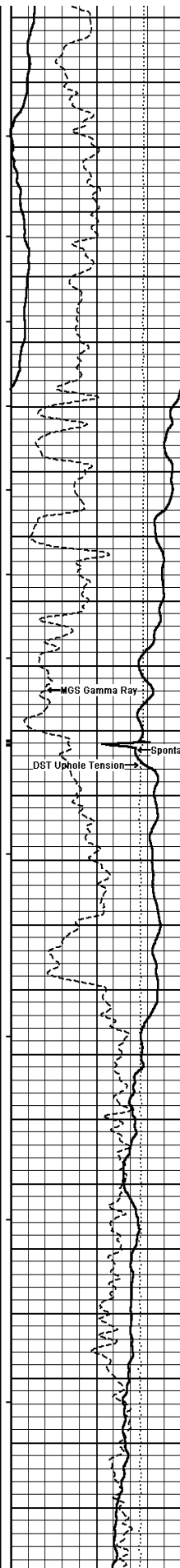
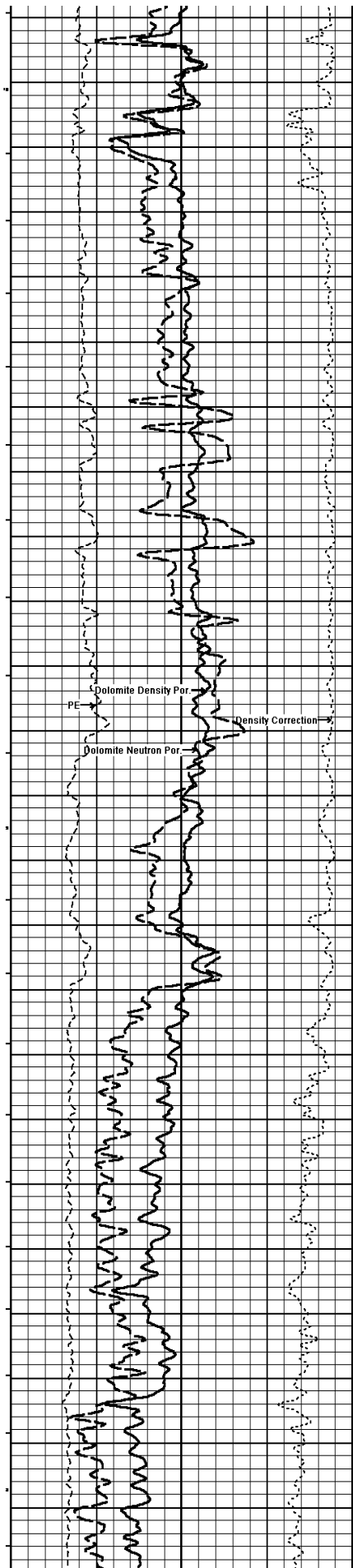
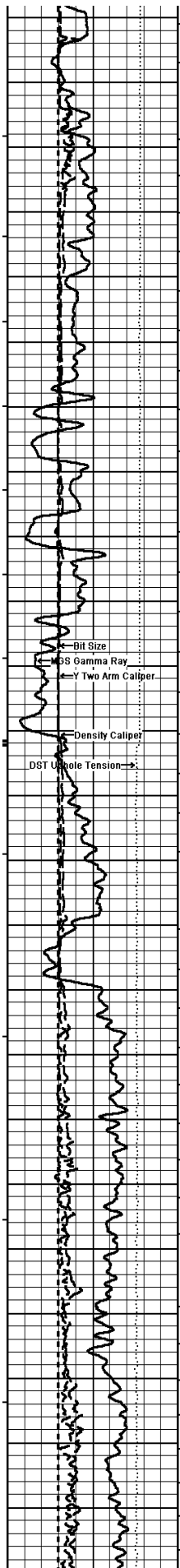


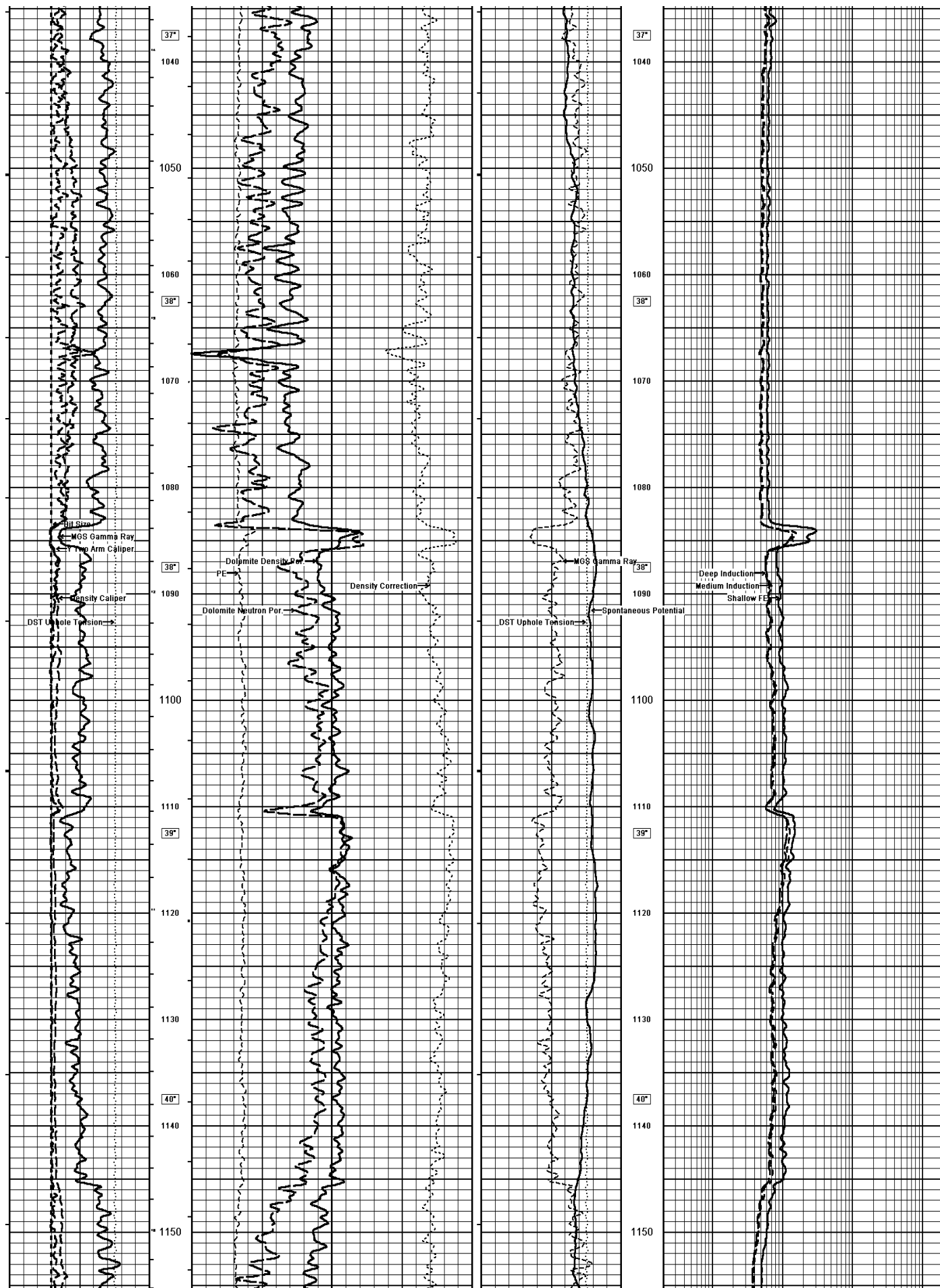


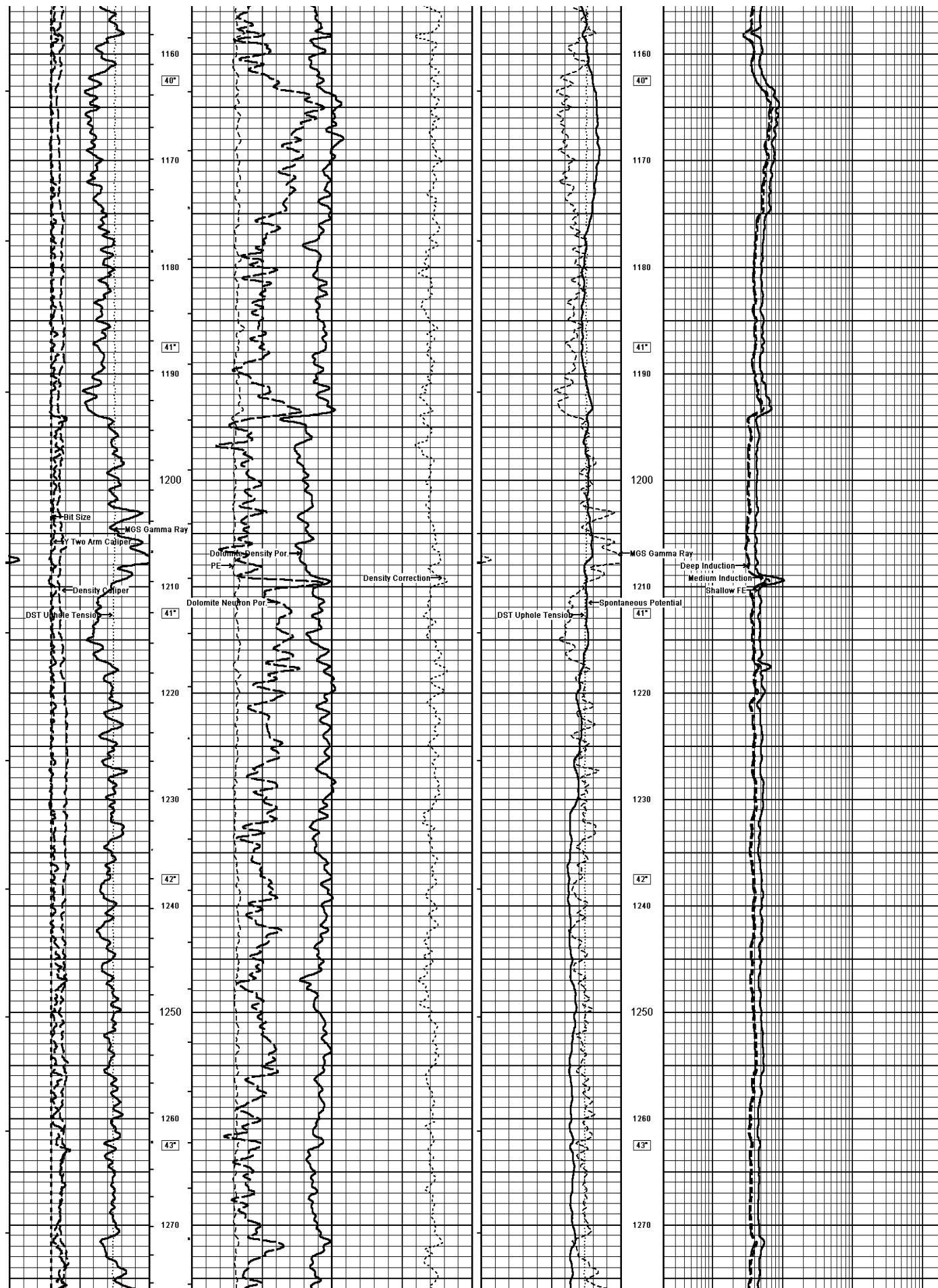


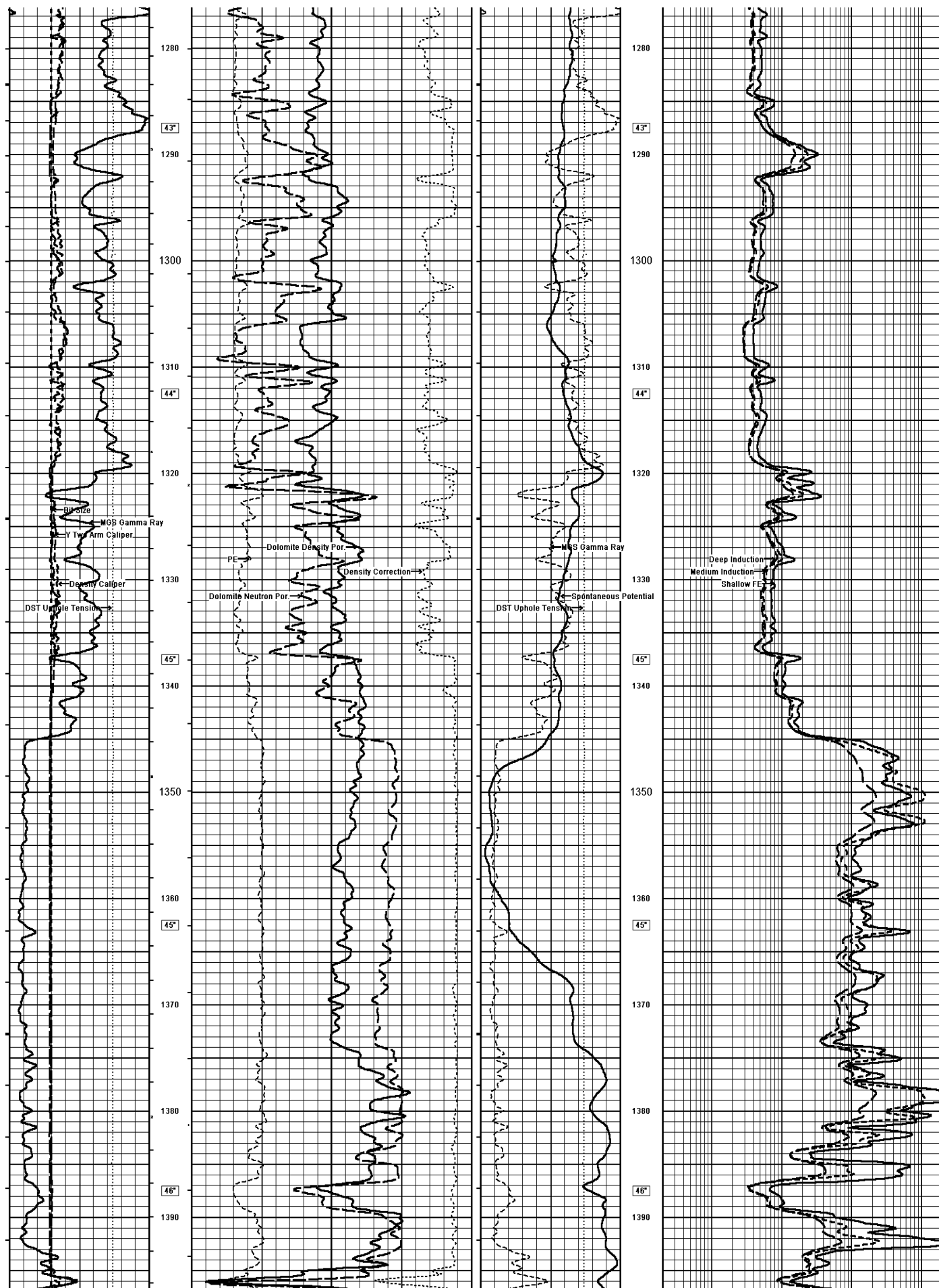


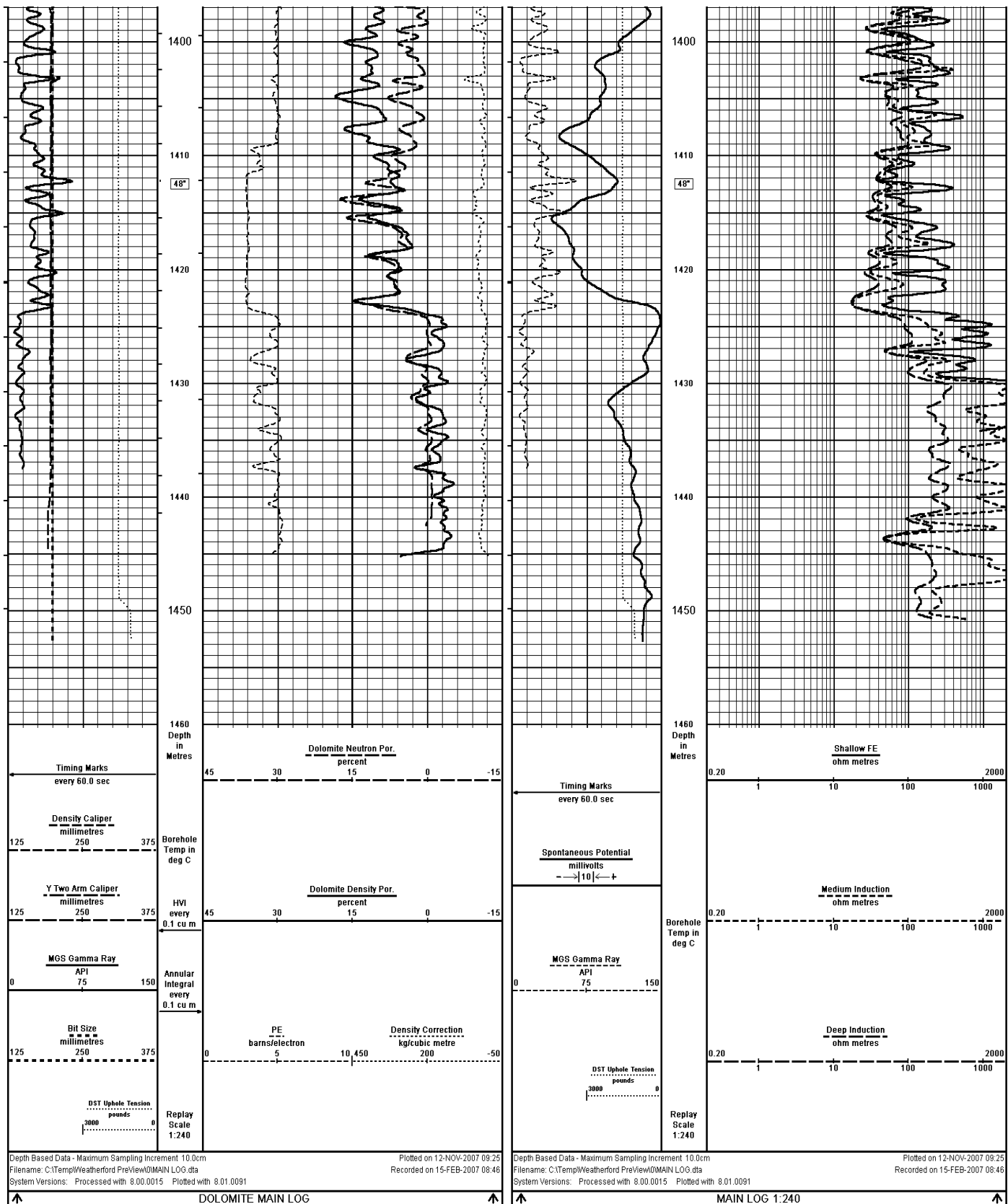












BEFORE SURVEY CALIBRATION

C:\Temp\Weatherford PreView\0\REPEAT.dta

General Constants All 000

Last Edited on 15-FEB-2007,06:48

General Parameters			
Mud Resistivity	1.180	ohm-metres	
Mud Resistivity Temperature	25.000	degrees C	
Water Level	0.000	metres	
Density/Neutron Processing	Wet Hole		
Hole/Annular Volume and Differential Caliper Parameters			
HVOL Caliper 1	Density Caliper		
HVOL Caliper 2	Y Two Arm Caliper		
Annular Volume Diameter	139.700	mm	
Caliper for Differential Caliper	Density Caliper		
Rwa Parameters			
Porosity used	Base Density Porosity		
Resistivity used	Deep Induction		
RWA Constant A	0.610		
RWA Constant M	2.150		
High Resolution Temperature Calibration MCG 159			
	Measured	Calibrated(Deg C)	Field Calibration on 28-NOV-2006,15:40
Lower	10.00	10.00	
Upper	50.00	50.00	
High Resolution Temperature Constants MCG 159			
			Last Edited on 28-NOV-2006,15:40
Pre-filter Length	11		
Caliper Calibration MTC 006			
			Base Calibration on 25-JAN-2007,18:14
			Field Calibration on 10-FEB-2007,20:21
Base Calibration			
Reading No	Measured	Calibrator Size (mm)	
1	14734	110.00	
2	17539	162.00	
3	20248	212.00	
4	22990	262.00	
5	25897	311.00	
6	N/A	N/A	
Field Calibration			
	Measured Caliper (mm)	Actual Caliper (mm)	
	208.70	205.70	
Gamma Calibration MGS 010			
	Measured	Calibrated (API)	Field Calibration on 7-FEB-2007,09:09
Background	48	31	
Calibrator (Gross)	1256	825	
Calibrator (Net)	1208	794	
Gamma Constants MGS 010			
			Last Edited on 15-FEB-2007,06:48
Gamma Calibrator Number	grcc075		
Mud Density	1060.00	kg/m3	
Caliper Source for Processing	Density Caliper		
Tool Position	Centred		
Concentration of KCl	0.00	kppm	
Neutron Calibration MDN 144			
			Base Calibration on 25-JAN-2007 18:05
			Field Check on 15-FEB-2007 05:21
Base Calibration			
	Measured	Calibrated (cps)	
	Near Far	Near Far	
	2967 93	3714 110	
Ratio	31.886	33.764	

Field Calibrator at Base	Calibrated (cps)
	2065 2999
Ratio	0.689
Field Check	Calibrated (cps)
	2094 3091
Ratio	0.677

Neutron Constants MDN 144

Last Edited on 18-JAN-2007,02:18

Neutron Source Id	16145b
Neutron Jig Number	
Epithermal Neutron	No
Caliper Source for Processing	Density Caliper
Stand-off	0.00 mm
Mud Density	1000.00 kg/m3
Limestone Sigma	7.10 cu
Sandstone Sigma	4.26 cu
Dolomite Sigma	4.70 cu
Formation Pressure Source	Constant Value
Formation Pressure	0.00 kPa
Temperature Source	MCG External Temperature
Temperature	20.00 degrees C
Mud Salinity	0.00 kppm
Formation Fluid Salinity Source	Constant Value
Formation Fluid Salinity	0.00 kppm
Barite Mud Correction	Not Applied

Photo Density Calibration MPD 036

Base Calibration on 8-MAR-2007,10:54
Field Check on

Density Calibration	Measured		Calibrated (sdu)	
Base Calibration	Near	Far	Near	Far
Reference 1	52802	28585	60352	31615
Reference 2	21780	2767	25043	2540

Field Check at Base	1184.8	1494.9
---------------------	--------	--------

Field Check	0.0	0.0
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PE Calibration	Measured		Calibrated
Base Calibration	WS	WH	Ratio
Background	213	1052	
Reference 1	22151	53000	0.422
Reference 2	5909	20800	0.288

Field Check at Base	213.1	1051.7
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Field Check	0.0	0.0
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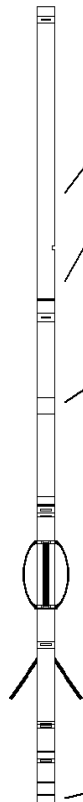
Density Constants MPD 036

Last Edited on 15-FEB-2007,04:55

Density Source Id	2834GW
Nylon Calibrator Number	608
Aluminium/Fe Calibrator Number	608
Density Shoe Profile	4 inch
Caliper Source for Processing	Density Caliper
PE Correction to Density	Not Applied
Mud Density	1000.00 kg/m3

Mud Density Z/A Correction	1.11	
Mud Filtrate Density	1000.00	kg/m3
Dry Hole Mud Filtrate Density	1000.00	kg/m3
DNCT	0.00	kg/m3
CRCT	0.00	kg/m3
Density Z/A Correction	Advanced	
Matrix Density (kg/m3)	Depth (m)	
2710.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	

Caliper Calibration MPD 036			Base Calibration on 23-JAN-2007 04:20
			Field Calibration on 7-FEB-2007,11:28
Base Calibration			
Reading No	Measured	Calibrator Size (mm)	
1	18576	110.00	
2	28032	162.00	
3	37841	212.00	
4	48080	262.00	
5	57920	311.00	
6	N/A	N/A	
Field Calibration			
	Measured Caliper (mm)	Actual Caliper (mm)	
	166.10	166.10	

DOWNHOLE EQUIPMENT				C:\Temp\Weatherford PreView\0\REPEAT.dta
Compact Gamma MCG 159 Length: 2.65 m	Weight: 63.9 lb		20.78 m GRGC - Gamma Ray	
			19.90 m CGXT - MCG External Temperature	
Compact Focussed Electric MFE 17 Length: 1.84 m	Weight: 48.5 lb		18.79 m FEFE - Shallow FE	
Compact Two Arm Caliper MTC 6 Length: 2.17 m	Weight: 61.7 lb		16.33 m CLYC - Y Two Arm Caliper	
Compact Short Gamma MGS 10 Length: 1.04 m	Weight: 24.3 lb		15.46 m GRGM - MGS Gamma Ray	

FIELD	CAMERON HILLS
PROVINCE/COUNTY	NORTH WEST TERRITORIES
COUNTRY/STATE	CANADA

Elevation Kelly Bushing	769.20	metres	First Reading	1448.70	metre
Elevation Drill Floor		metres	Depth Driller	1449.00	metres
Elevation Ground Level	765.20	metres	Depth Logger	1449.50	metres



Weatherford®

MINI PLOT



MINI PLOT

COMPANY		PARAMOUNT RESOURCES LTD.		
WELL		PARAMOUNT ET AL CAMERON J-04		
FIELD		CAMERON HILLS		
PROVINCE/COUNTY		NORTH WEST TERRITORIES		
COUNTRY/STATE		CANADA		
LOCATION		300/J-04-60-10-117-30		
LSD	SEC	TWP	RGE	Other Services
API Number		MICROLOG		
Permit Number 1159		COMPENSTATED SONIC		
Permanent Datum GROUND LEVEL, Elevation 765.20 metres			Elevations: metres	
Log Measured From 4.00 M above Permanent Datum			KB 769.20	
Drilling Measured From KB			DF	
			GL 765.20	
Date	15-FEB-2007			
Run Number	1			
Depth Driller	1449.00	metres		
Depth Logger	1449.50	metres		
First Reading	1448.70	metre		
Last Reading	420.00	metre		
Casing Driller	430.00	metres		
Casing Logger	429.80	metres		
Bit Size	200.00	mm		
Hole Fluid Type	GELCHEM			
Density / Viscosity	1060.0 kg/M3	93.00 CP		
PH / Fluid Loss	11.00	11.00 ml/30Min		
Sample Source	FLOWLINE			
Rm @ Measured Temp	1.18 @ 25.0	ohm-m		
Rmf @ Measured Temp	1.04 @ 25.0	ohm-m		
Rmc @ Measured Temp	1.32 @ 25.0	ohm-m		
Source Rmf / Rmc	PRESS	FILTER		
Rm @ BHT	0.78 @ 48.0	ohm-m		
Time Since Circulation	6 HRS			
Max Recorded Temp	48.00	deg C		
Equipment Name	COMPACT			
Equipment / Base	13124	GPR		
Recorded By	G. SINGER			
Witnessed By	A. AHMED			
CIRC. STOP TIME	01:30-FEB-15	Last Line		

BOREHOLE RECORD				Last Edited: 15-FEB-2007 05:01	
Bit Size millimetres		Depth From metres		Depth To metres	
311.000		0.00		430.00	
200.000		430.00		1449.00	
CASING RECORD					
Type	Size millimetres	Depth From metres	Shoe Depth metres	Weight Kg/metre	
SURFACE	219.100	0.00	430.00	35.72	

REMARKS

- 1) SOFTWARE ISSUE: WLS 7.01.0195.
- 2) CUSTOMER SCALES AND LOGGED INTERVALS USED
- 3) TOOLS RUN: MAI, MSS, MPD, MDN, MML, ISC, MGS, MTC, MFE, MCG RUN IN COMBINATION
- 4) HARDWARE: MAI: TWO 25.4 MM STANDOFFS
MSS: THREE 25.4 MM STANDOFFS
MDN: DUAL BOWSPRING AND INTERSONIC CRANK
MTC: SIX LEAF CENTRALIZER
- 5) SERVICE ORDER #: 30073028 SAP #: 4147101 # FIELD PRINTS = 3
- 6) RIG: PD 129

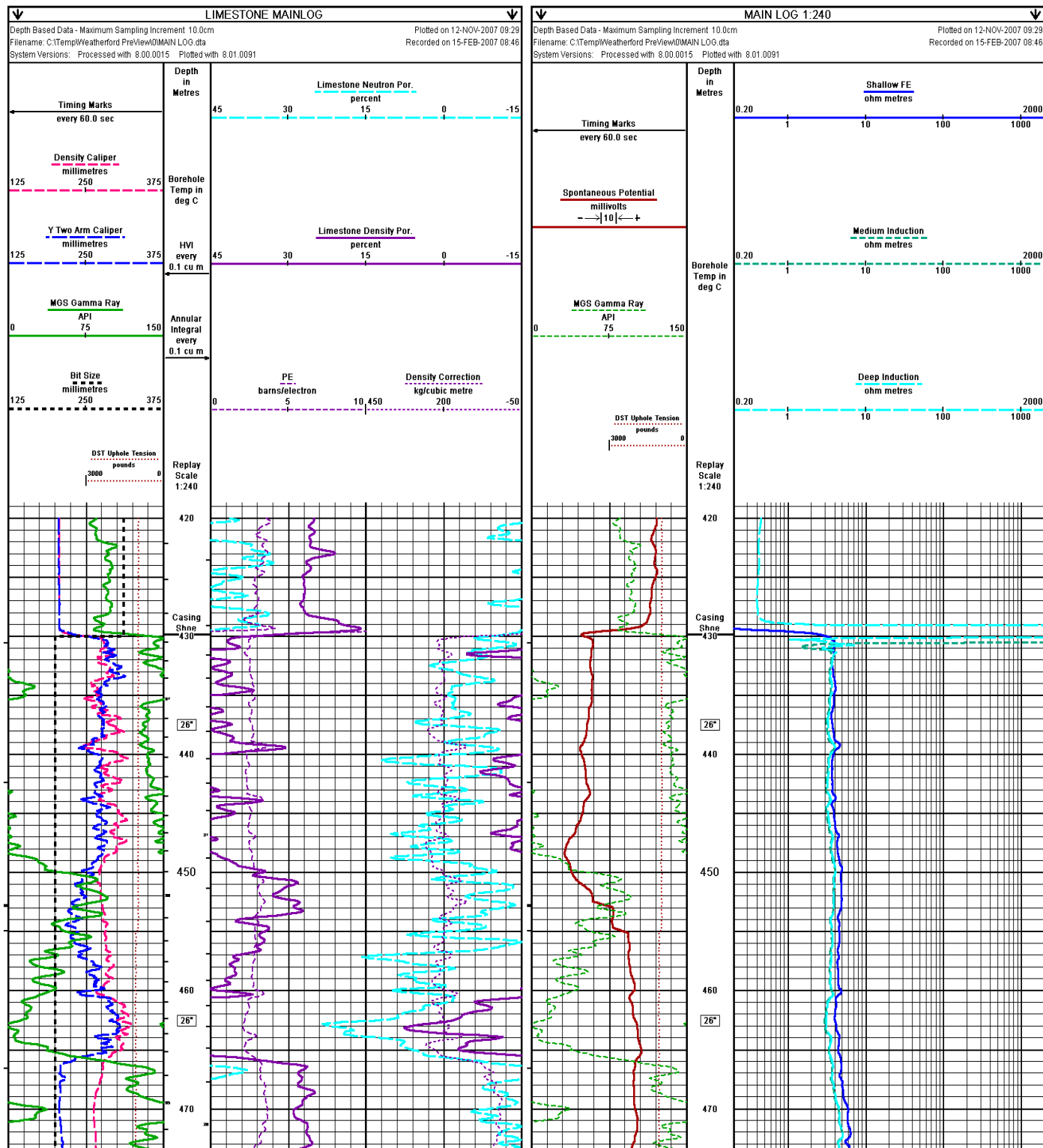
7) HOLE AND CEMENT VOLUMES CALCULATED USING DENSITY AND 2-ARM CALIPERS :

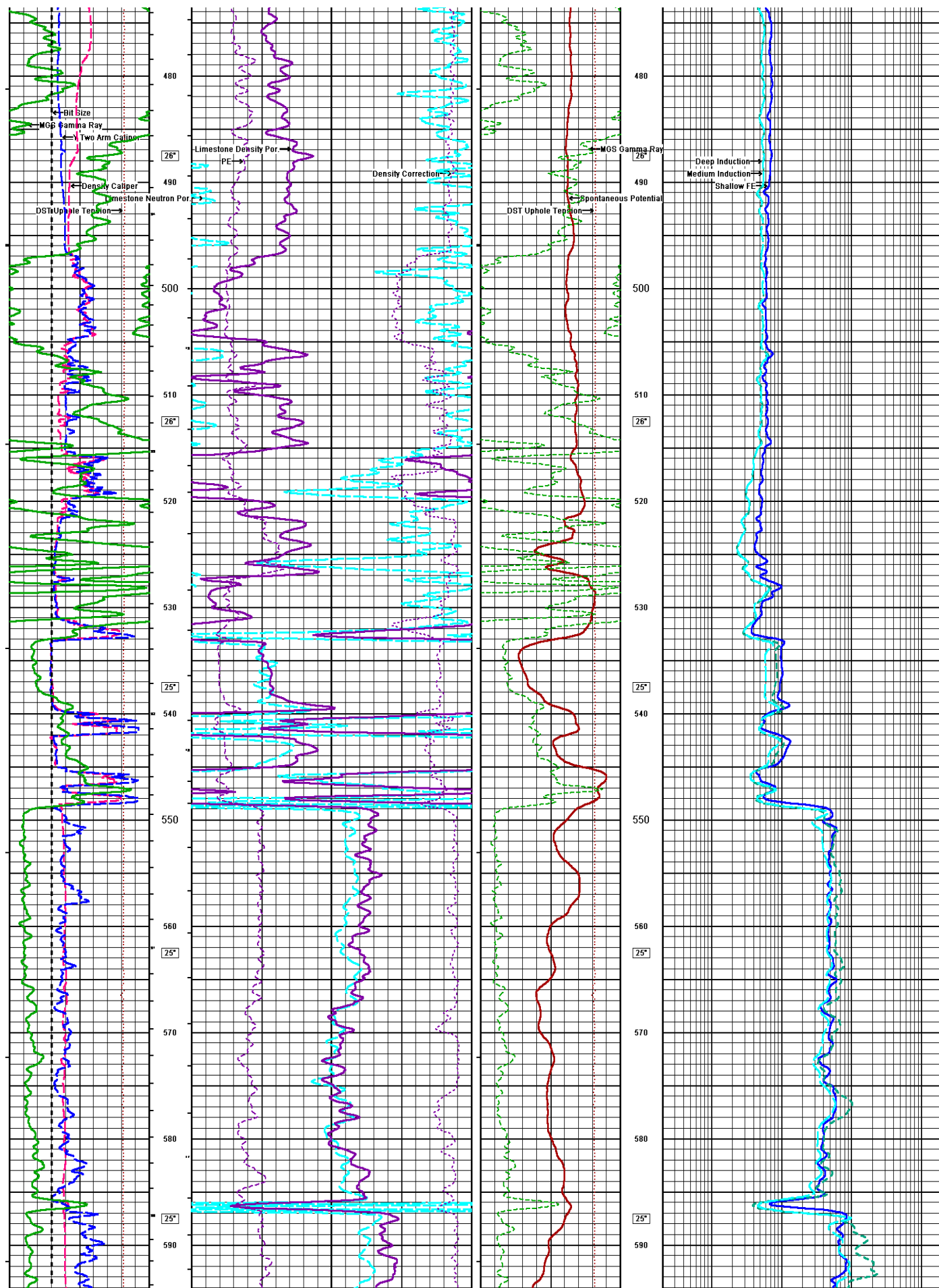
HOLE VOLUME = 37.4 CU.M.

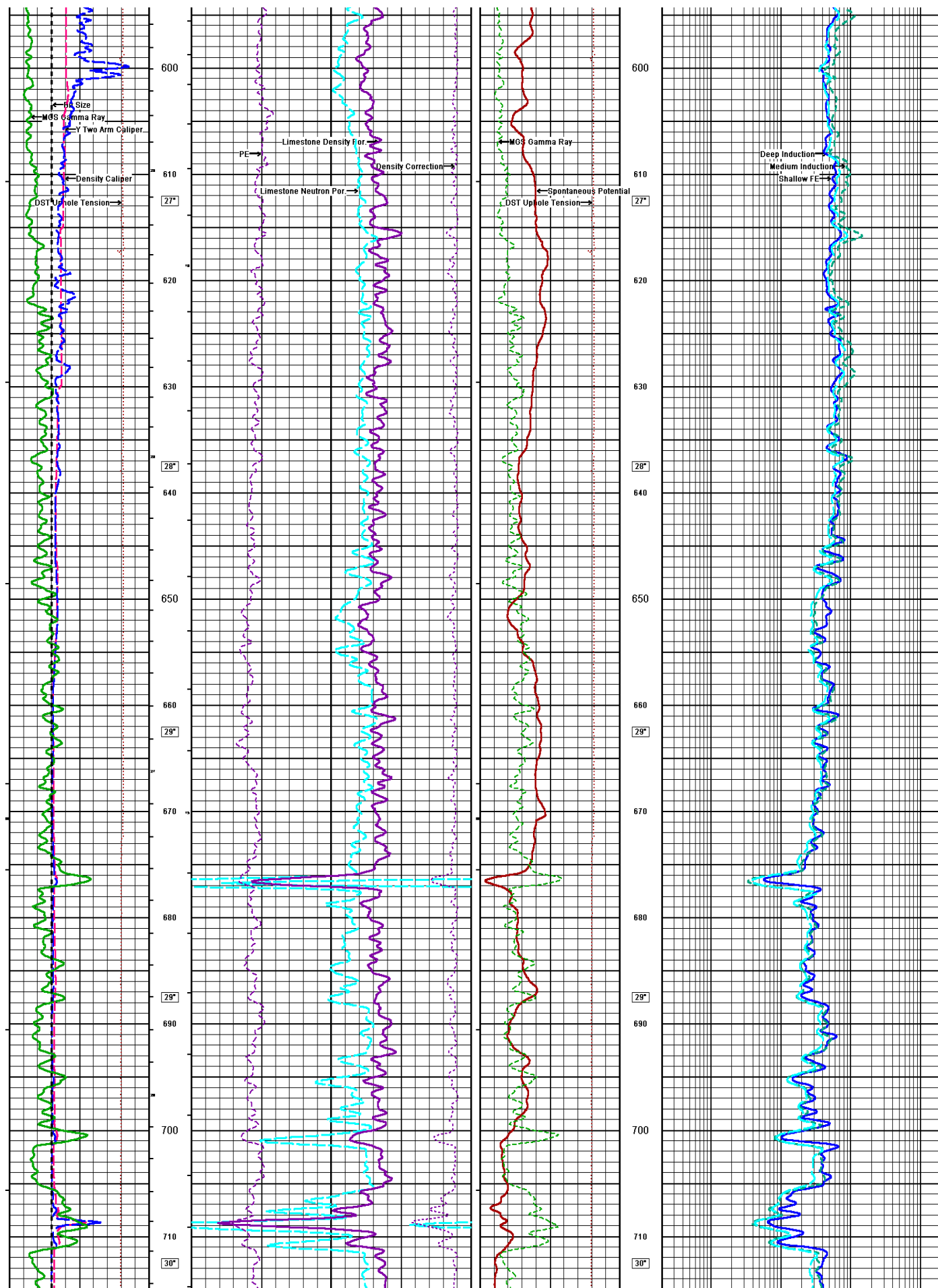
ANNULAR VOLUME USING 139.7 MM PRODUCTION CASING = 21.8 CU.M

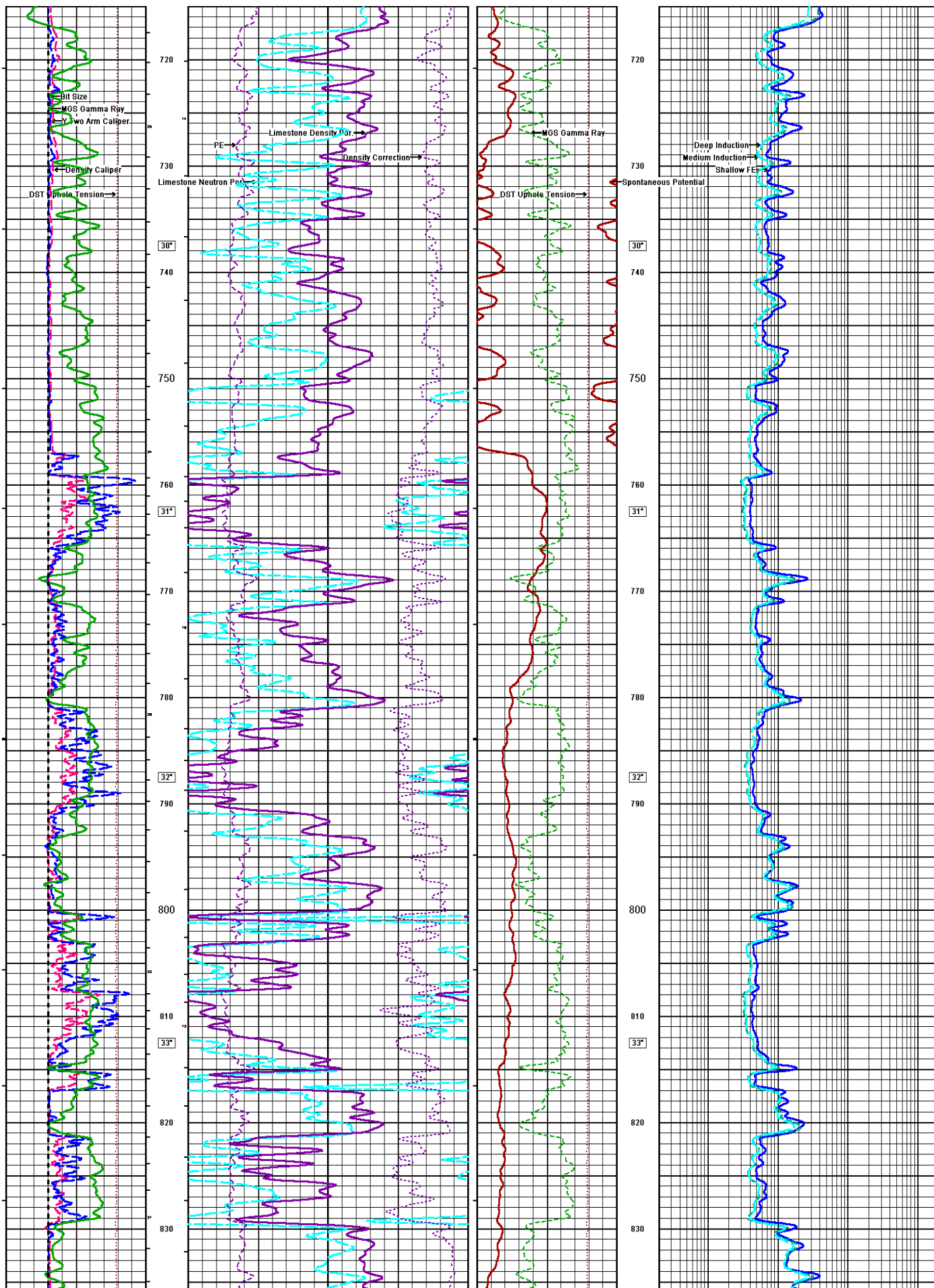
8) SONIC FREE PIPE FOUND FROM 352M - 357M

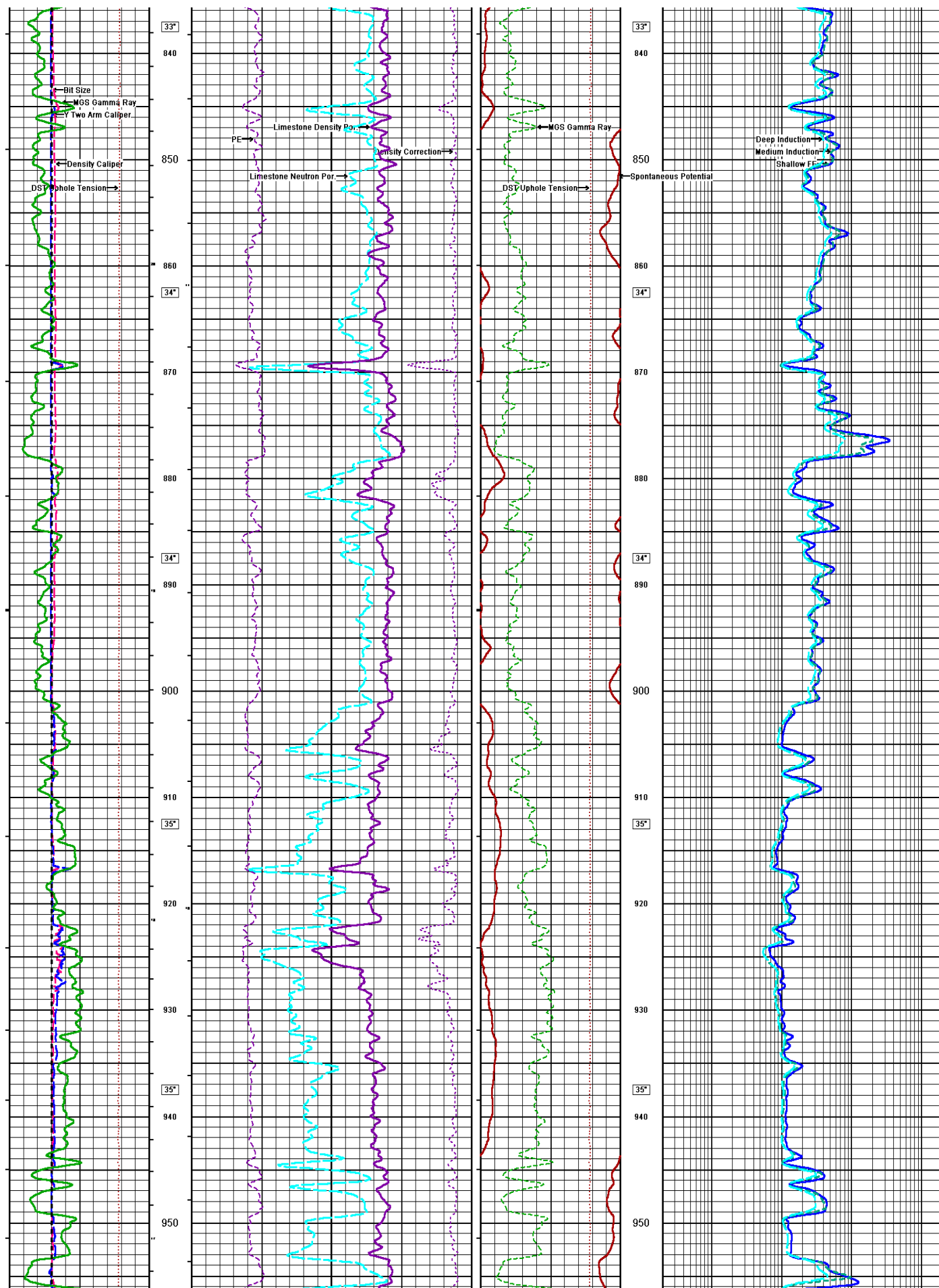
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs,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

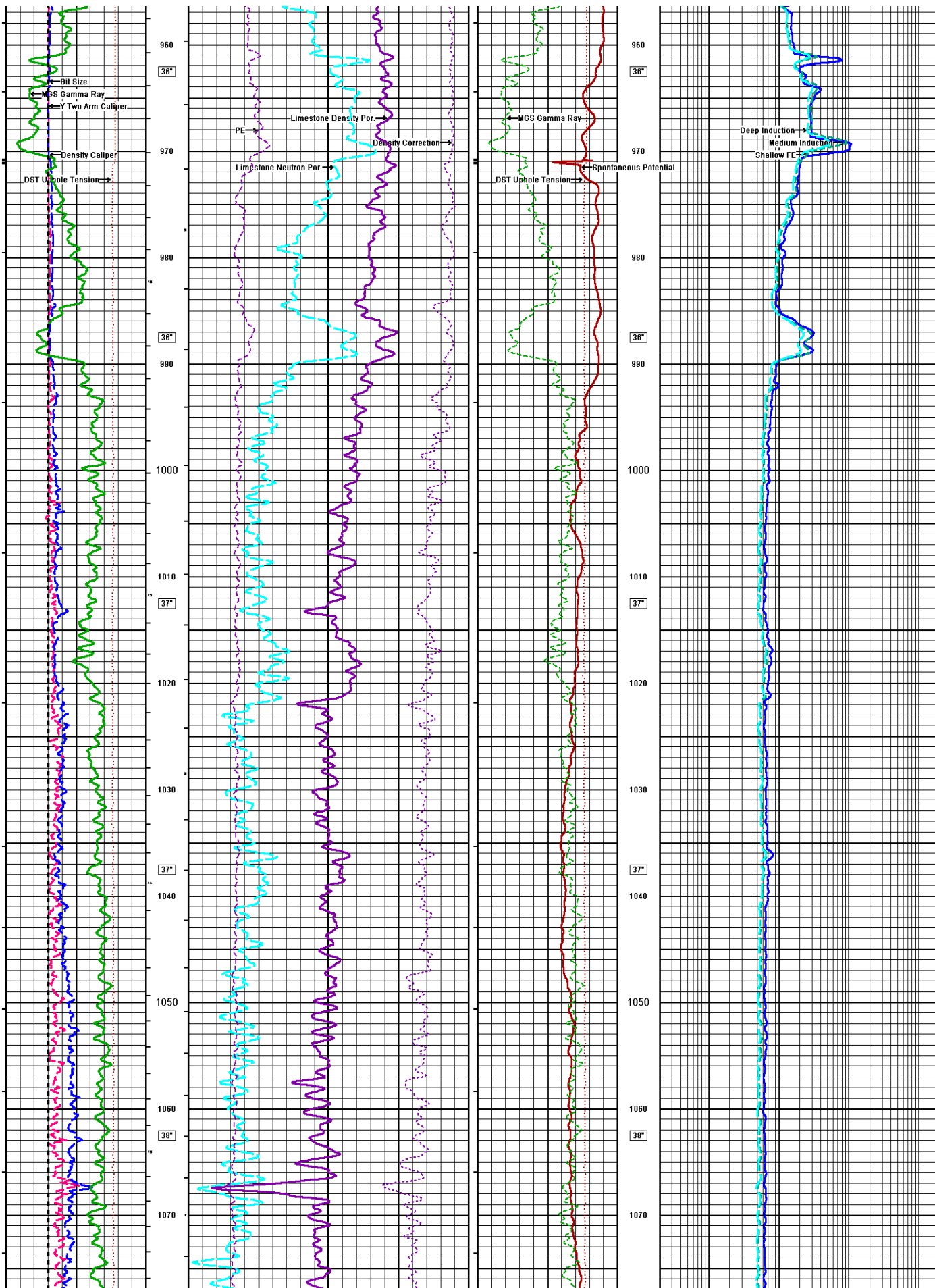


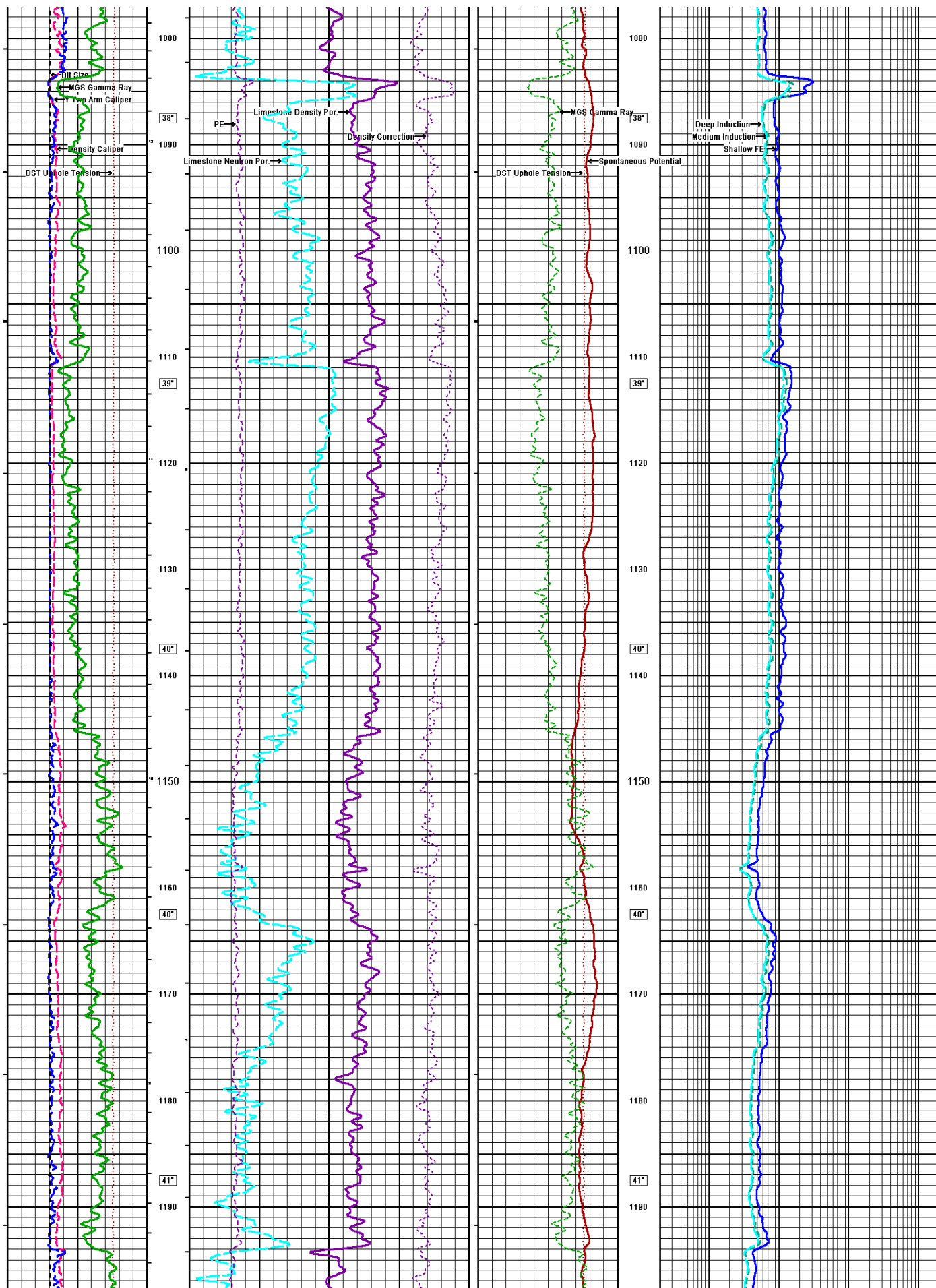


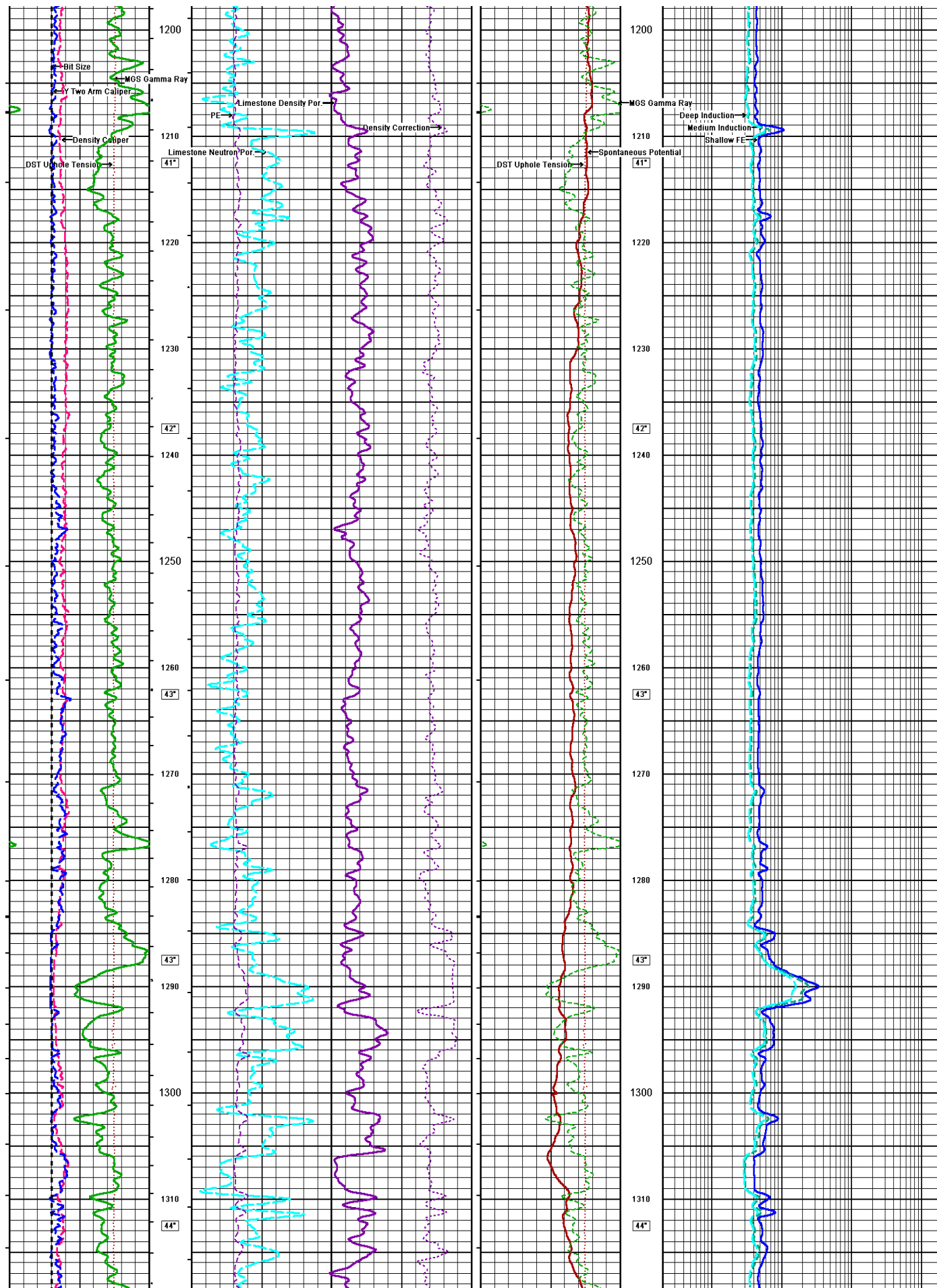


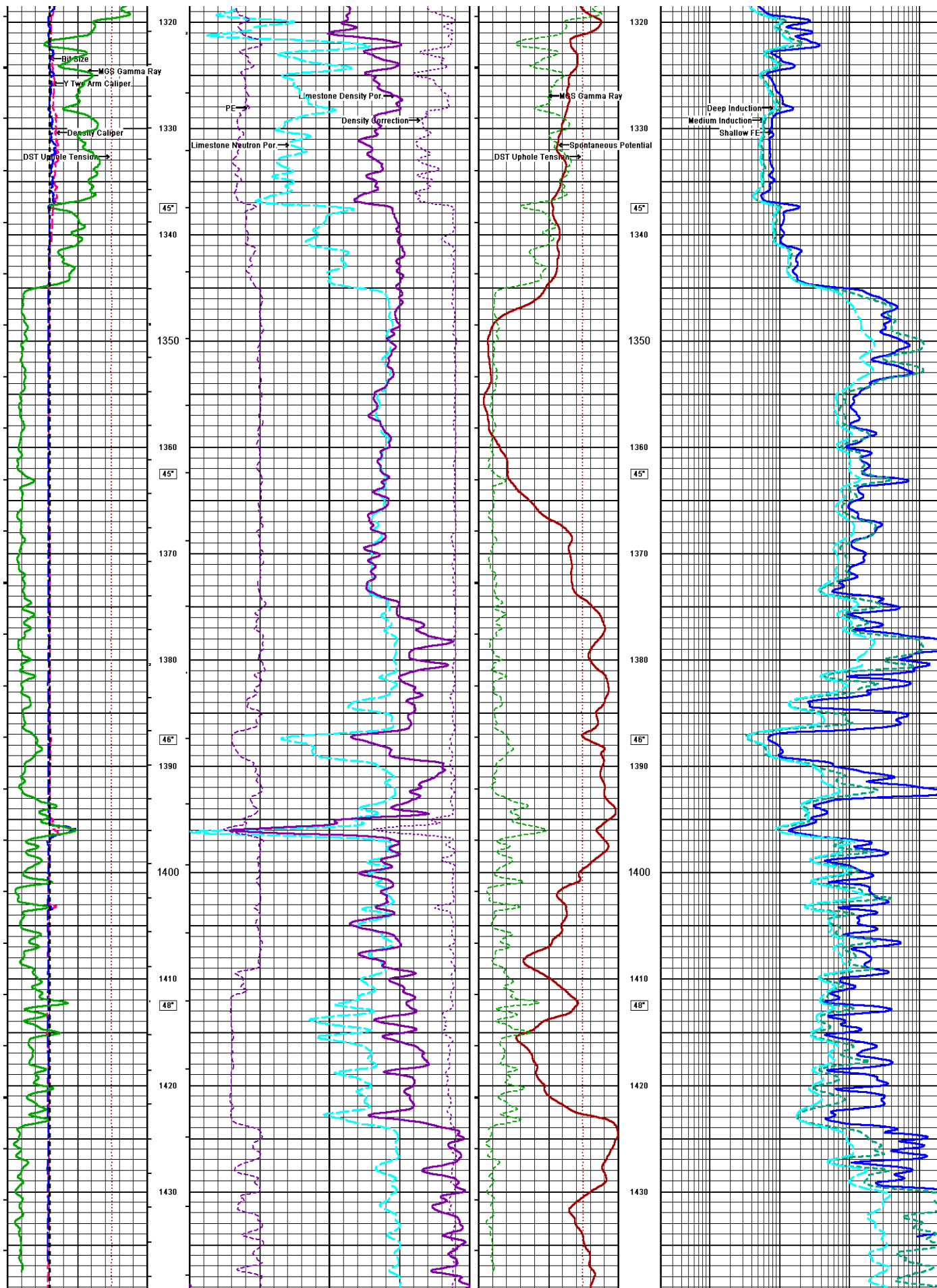


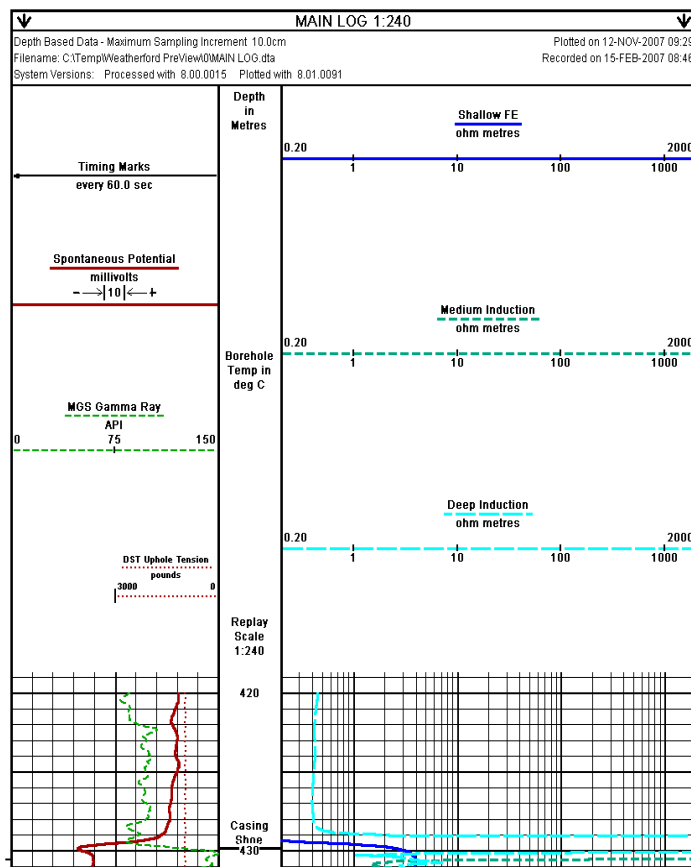
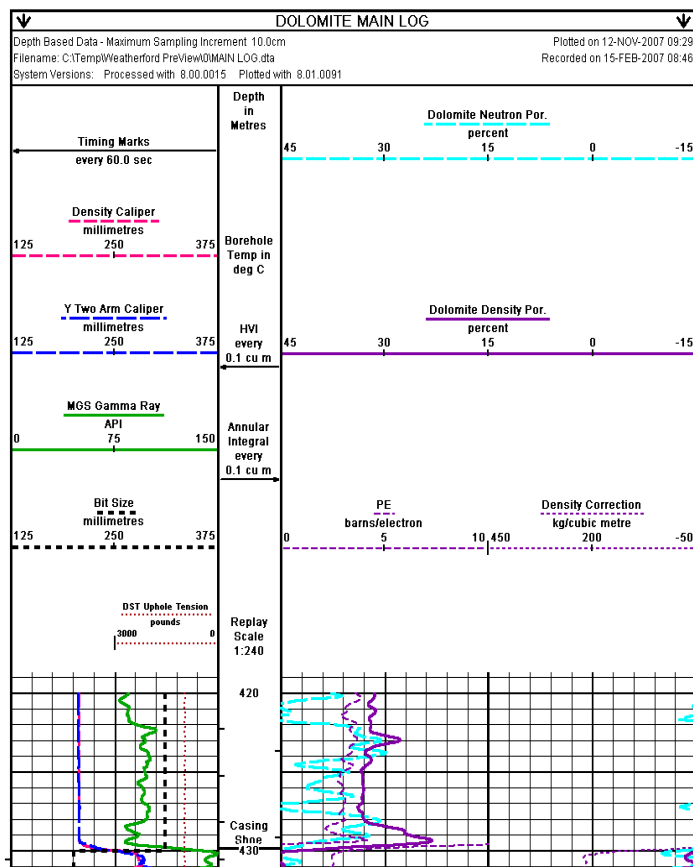
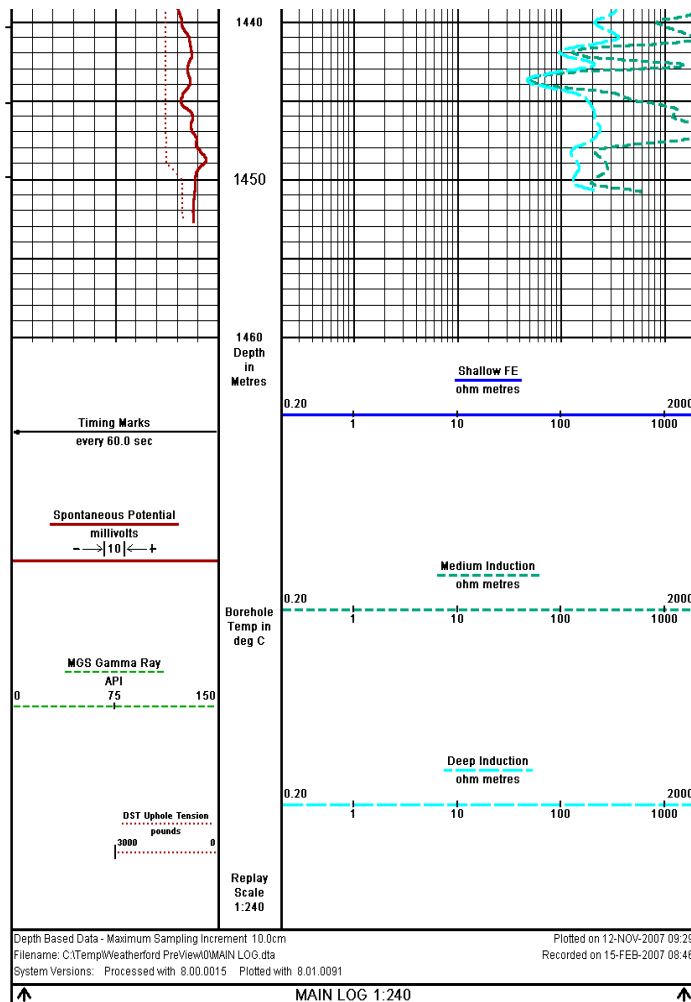
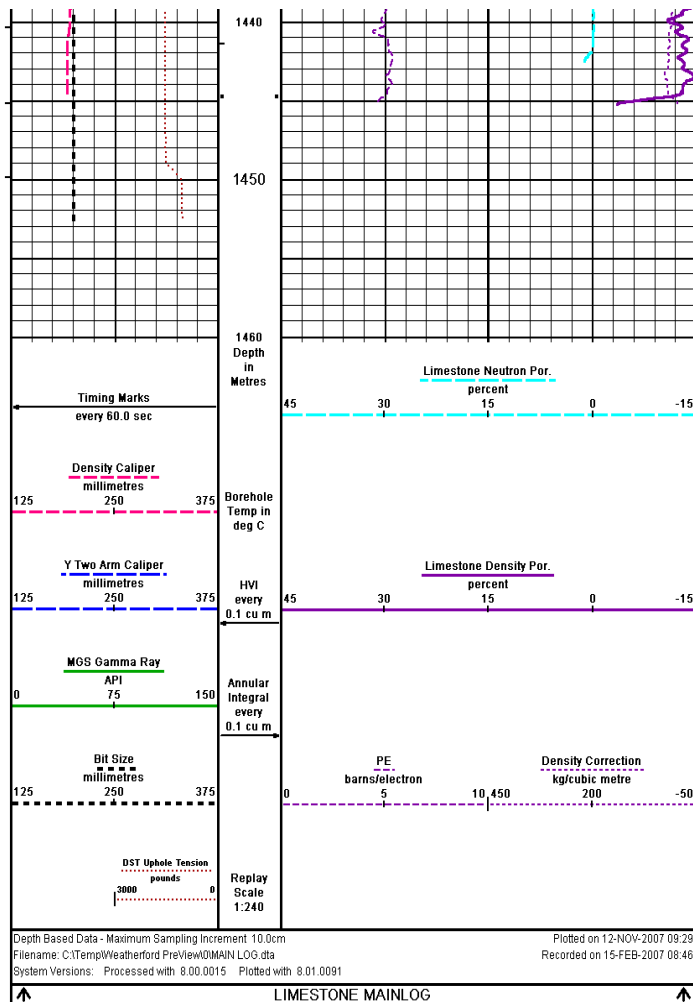


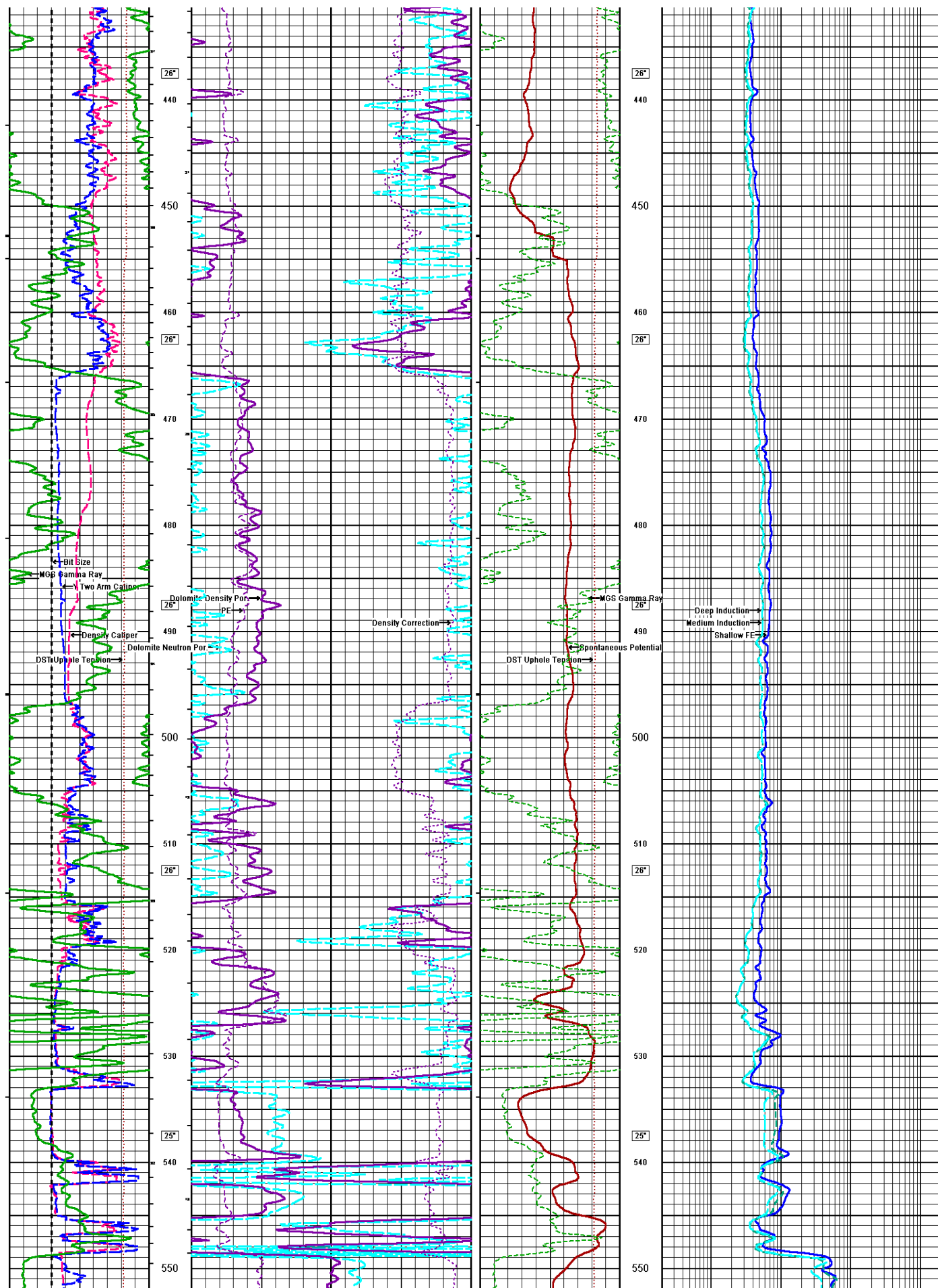


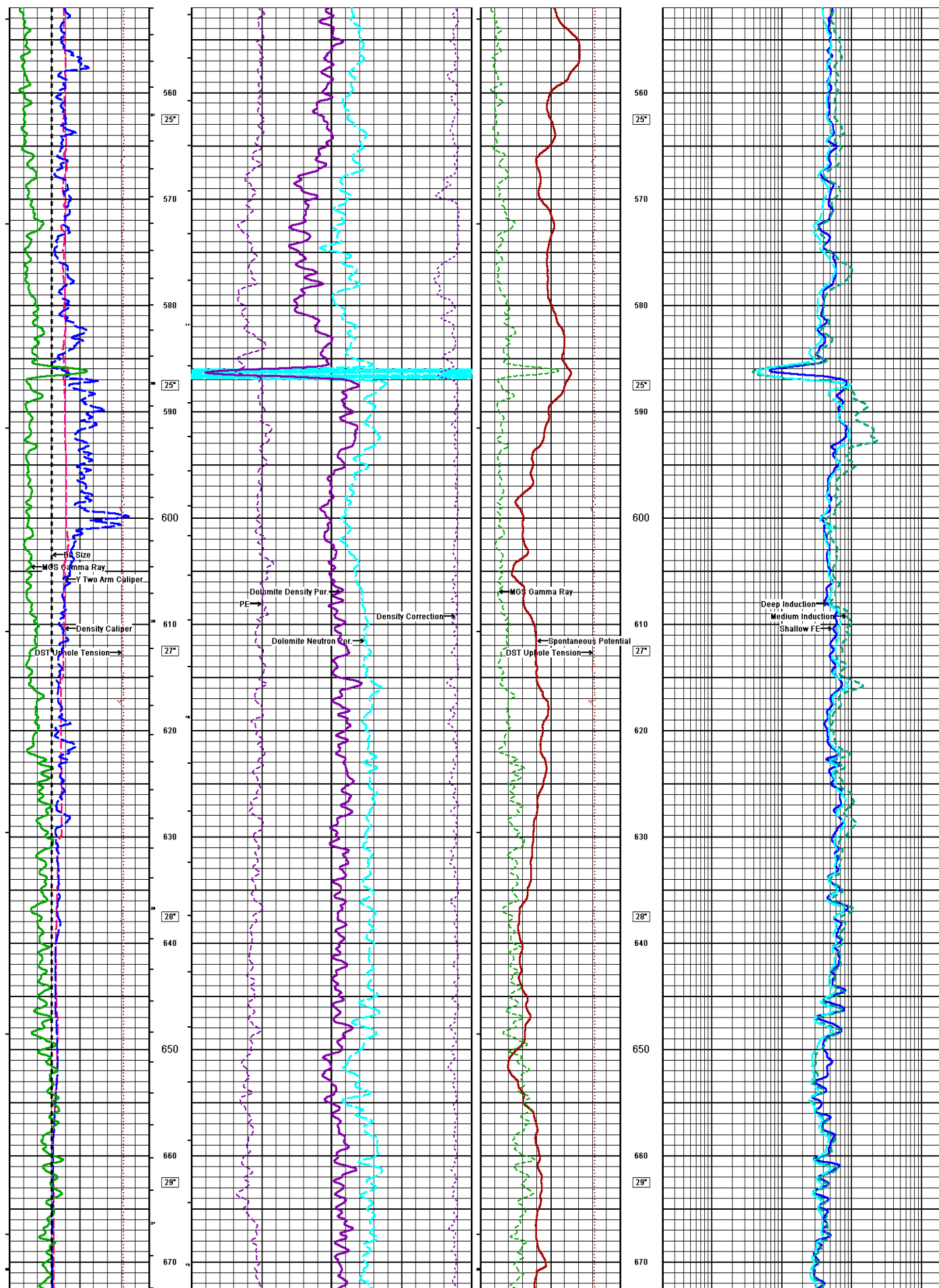


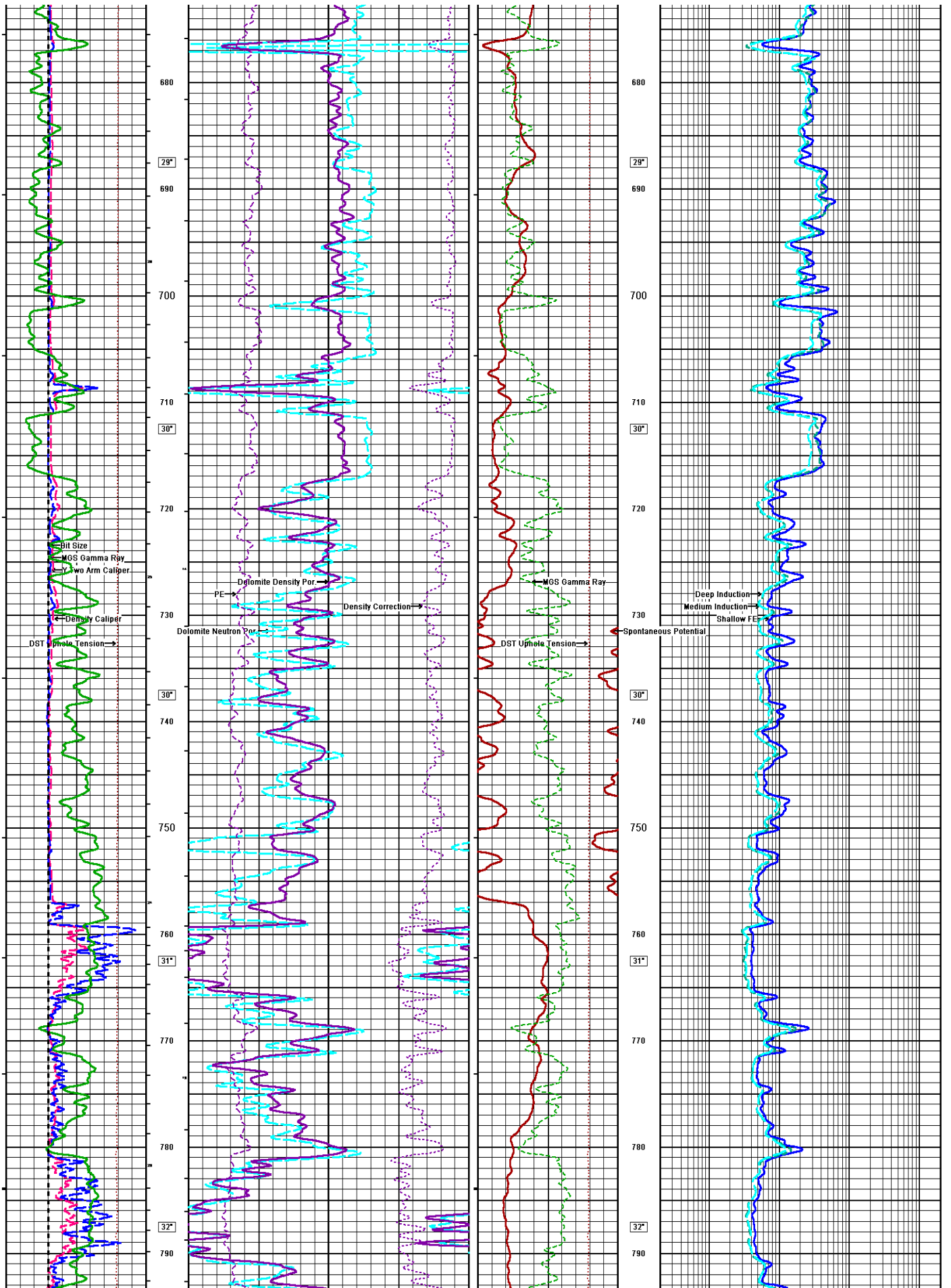


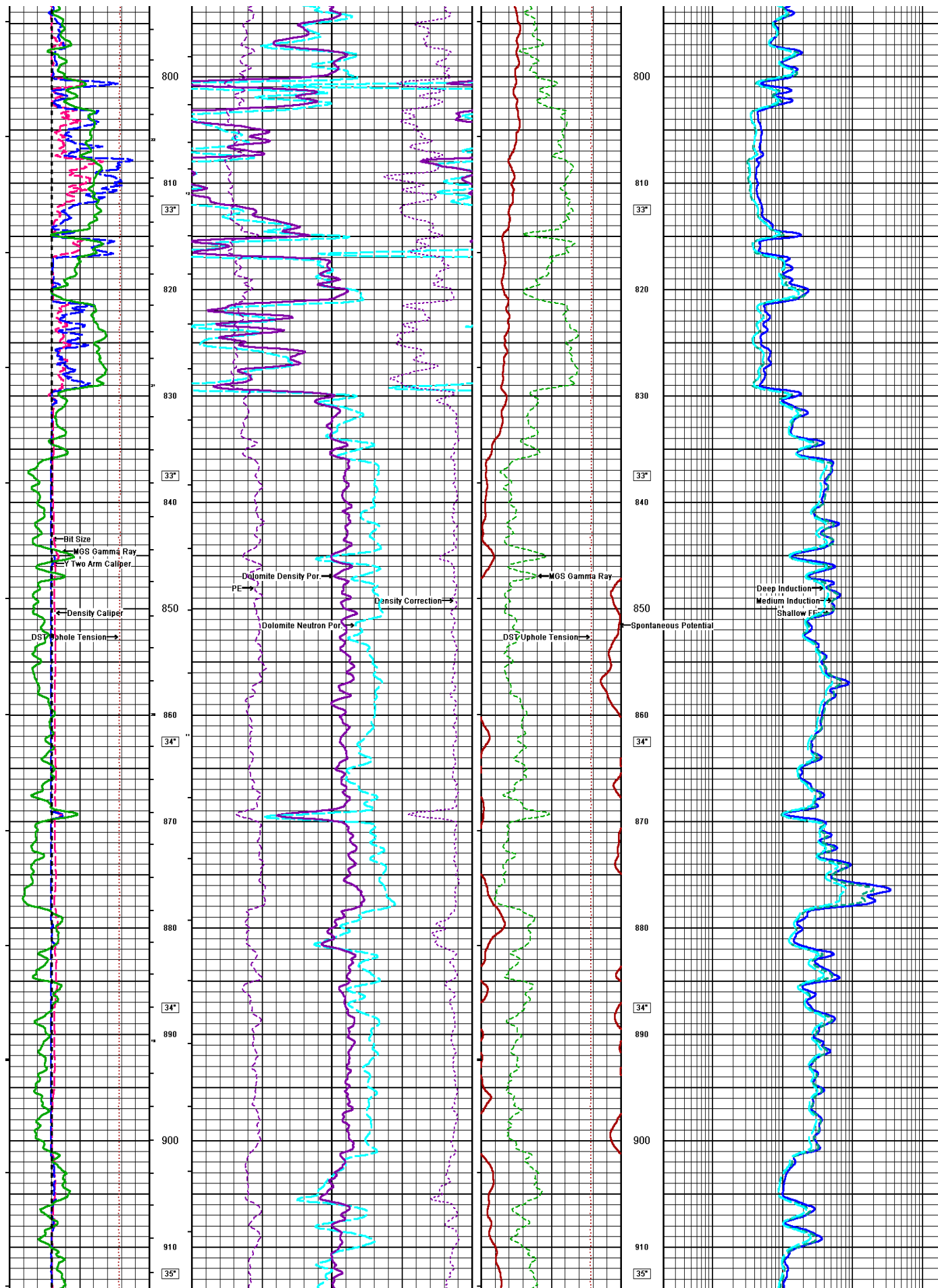


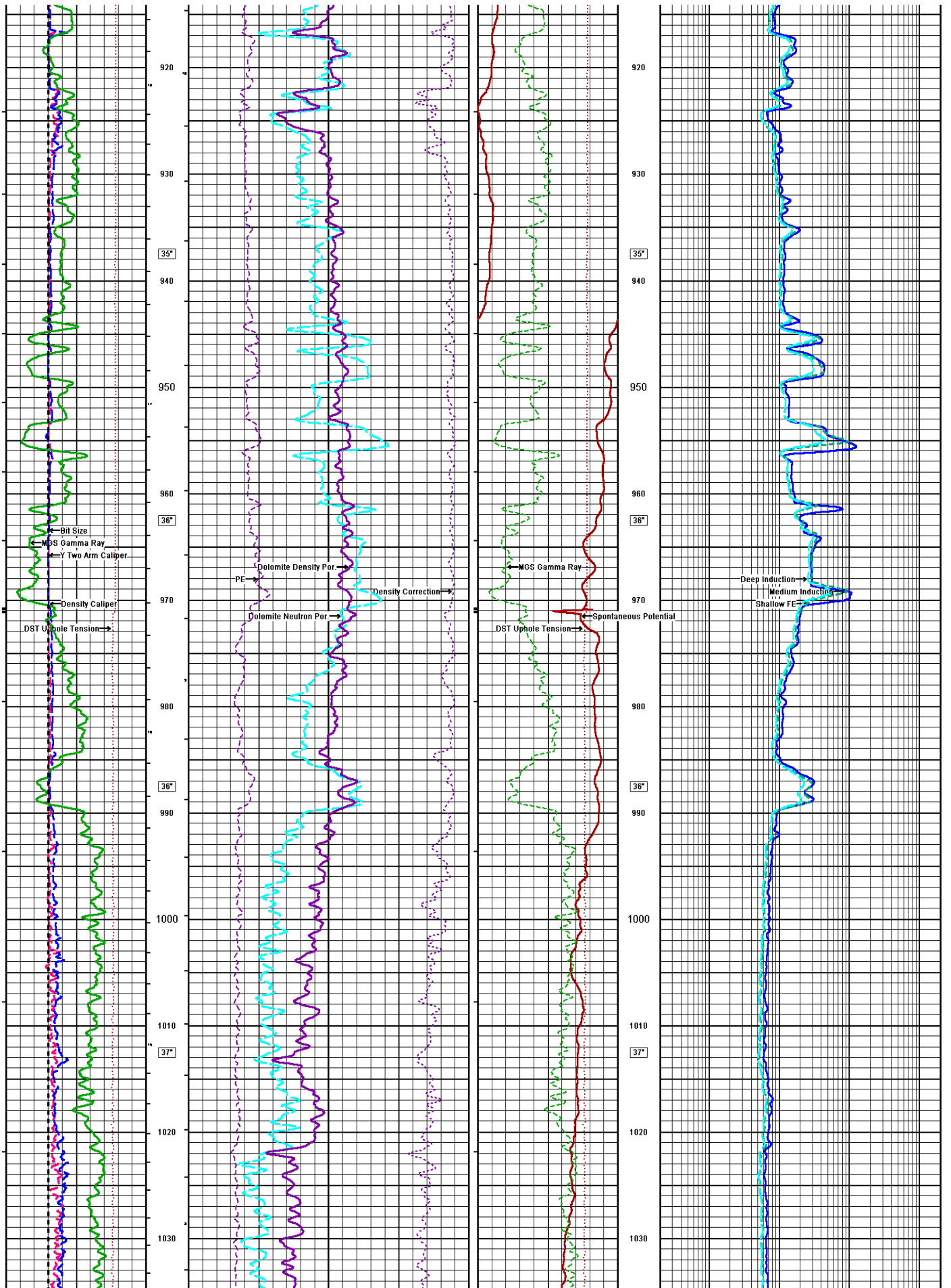


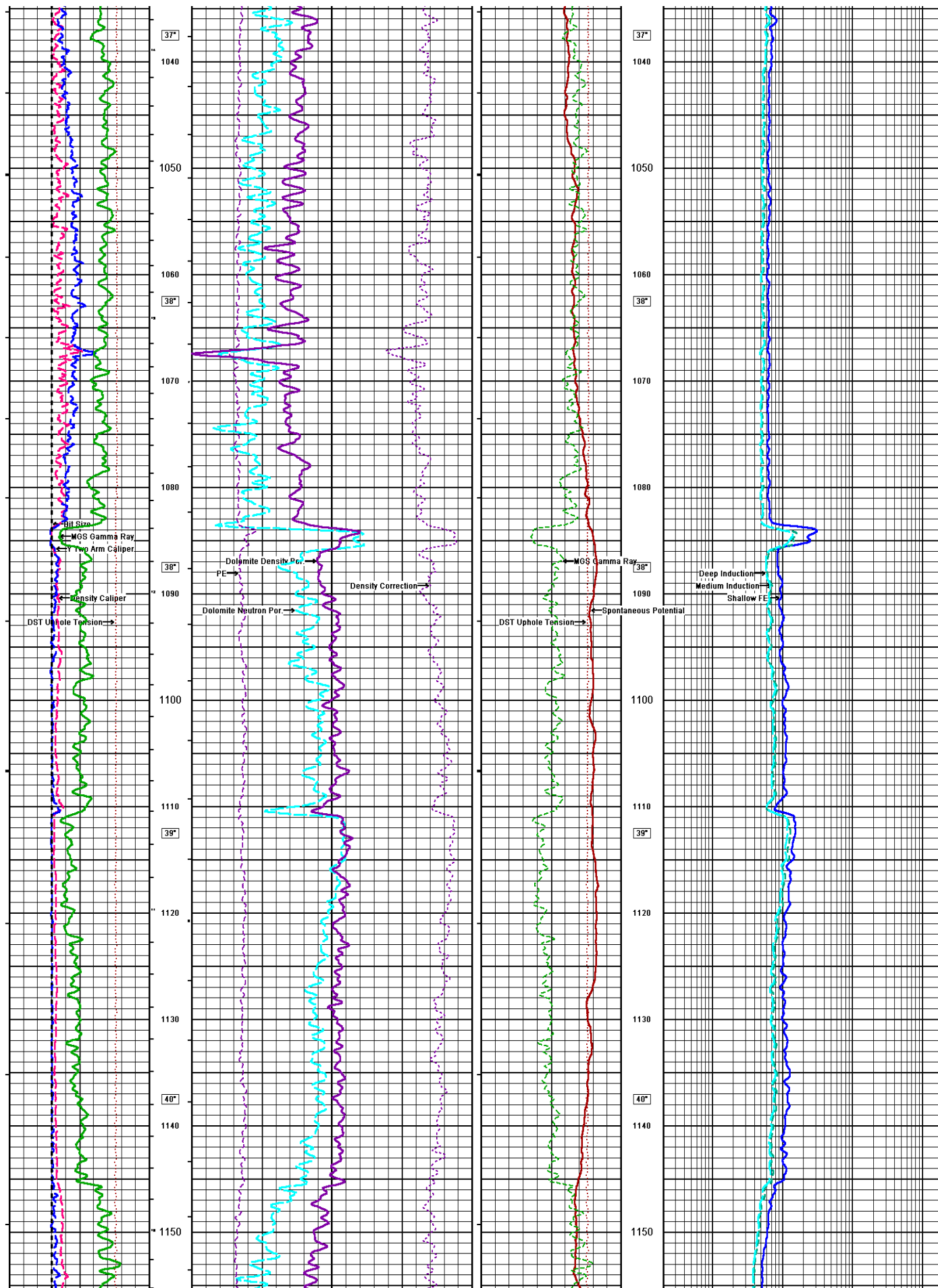


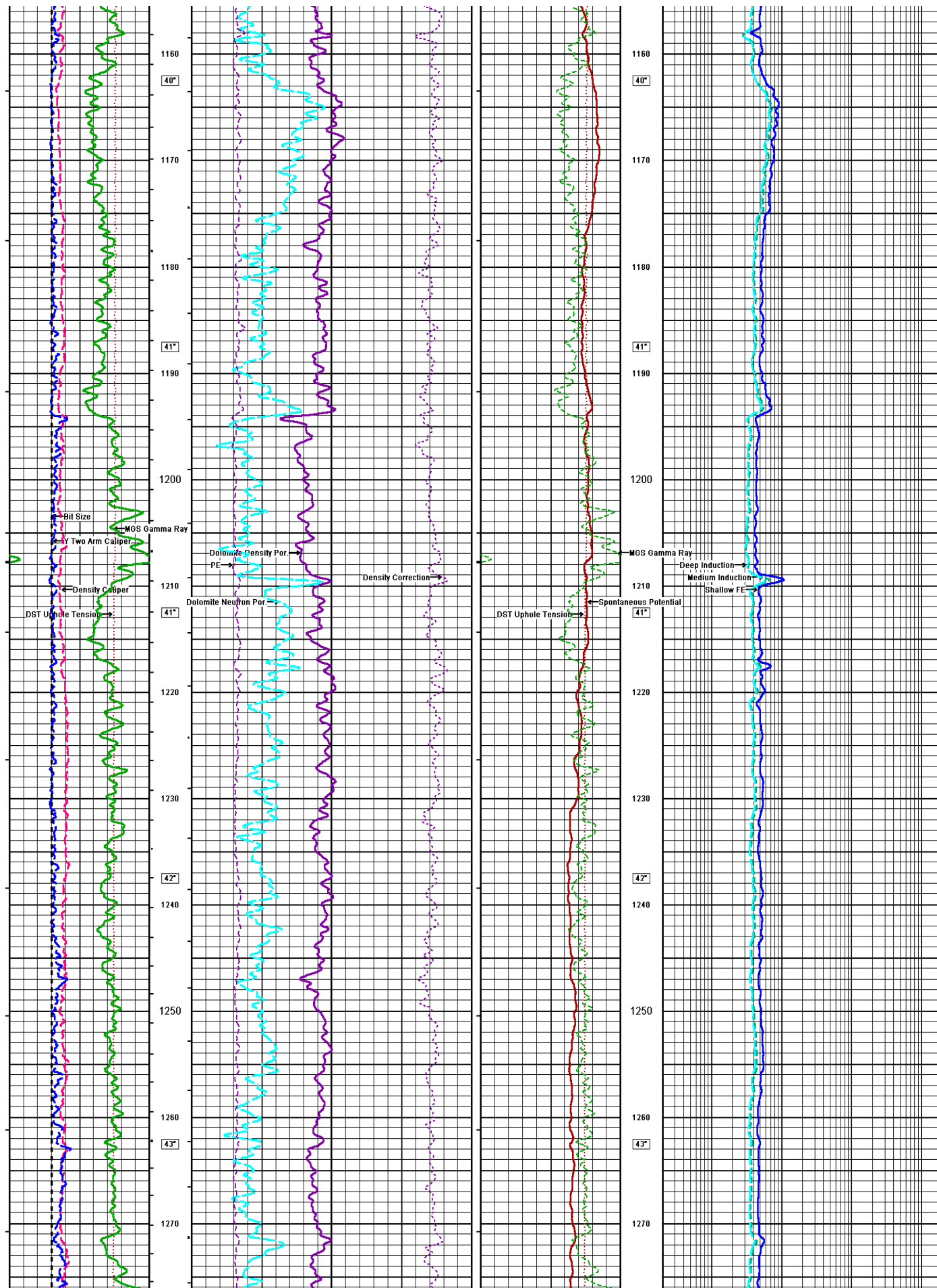


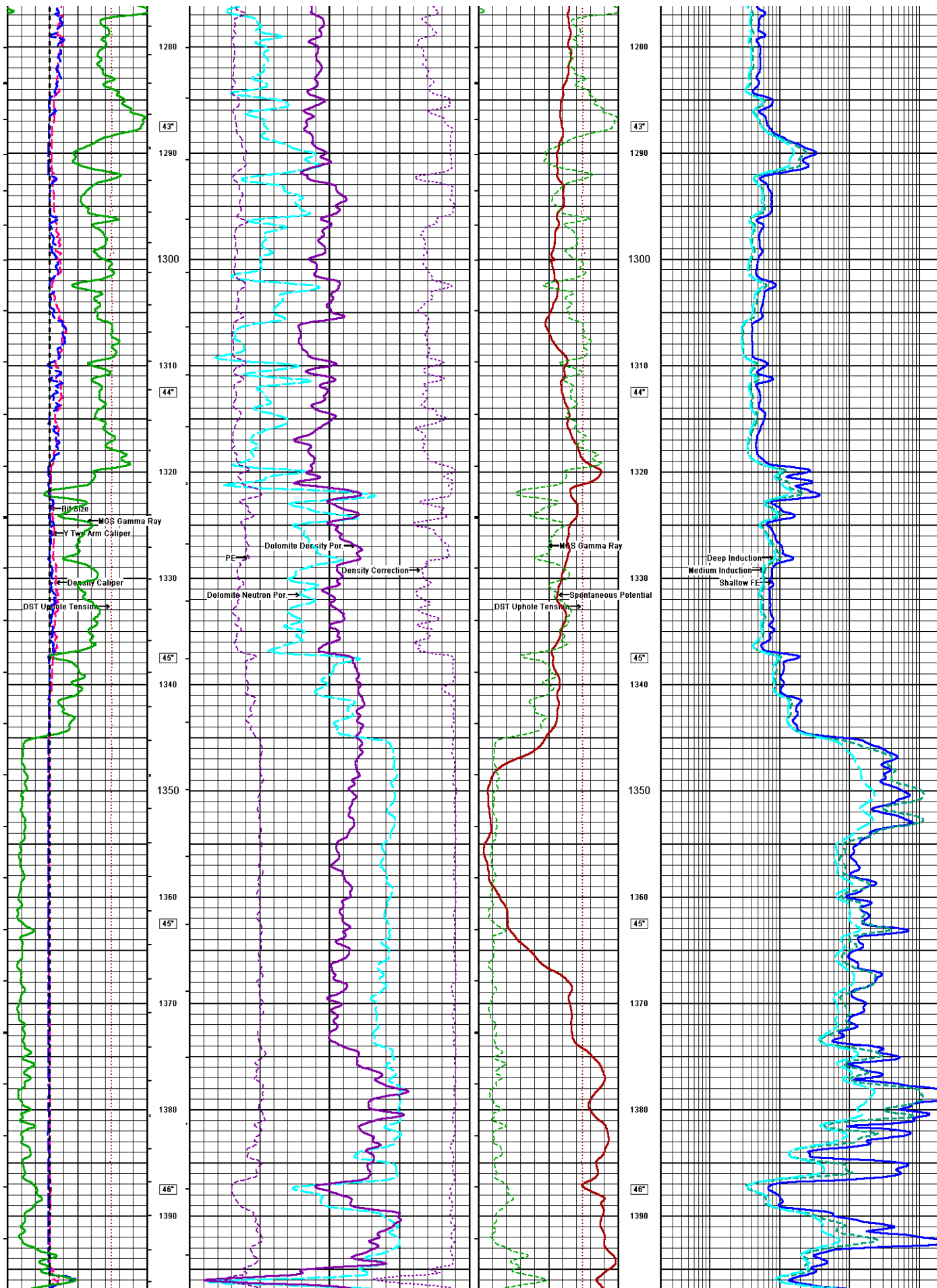


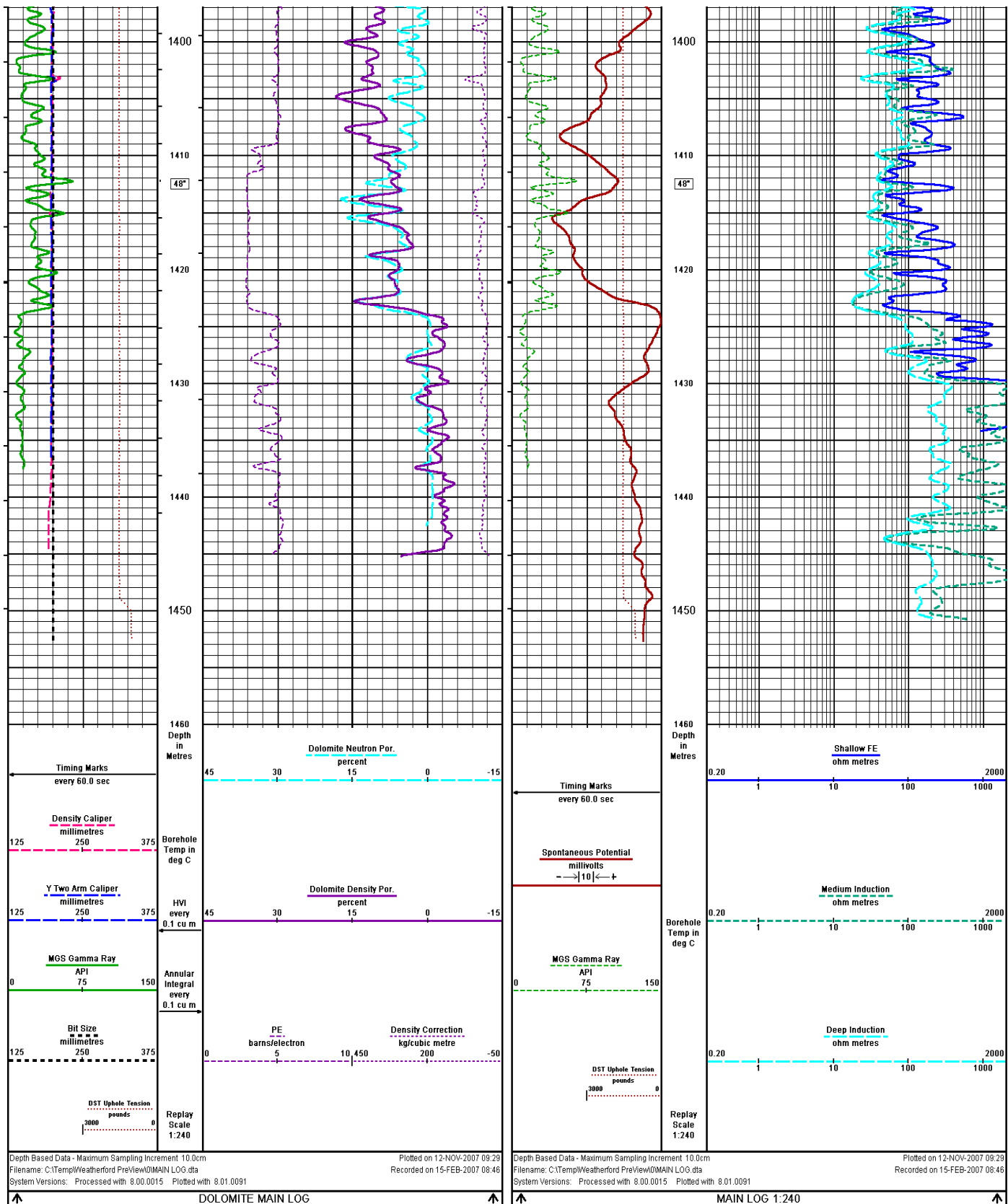












BEFORE SURVEY CALIBRATION

C:\Temp\Weatherford PreView\0\REPEAT.dta

General Constants All 000

Last Edited on 15-FEB-2007,06:48

General Parameters			
Mud Resistivity	1.180	ohm-metres	
Mud Resistivity Temperature	25.000	degrees C	
Water Level	0.000	metres	
Density/Neutron Processing	Wet Hole		
Hole/Annular Volume and Differential Caliper Parameters			
HVOL Caliper 1	Density Caliper		
HVOL Caliper 2	Y Two Arm Caliper		
Annular Volume Diameter	139.700	mm	
Caliper for Differential Caliper	Density Caliper		
Rwa Parameters			
Porosity used	Base Density Porosity		
Resistivity used	Deep Induction		
RWA Constant A	0.610		
RWA Constant M	2.150		
High Resolution Temperature Calibration MCG 159			
	Measured	Calibrated(Deg C)	Field Calibration on 28-NOV-2006,15:40
Lower	10.00	10.00	
Upper	50.00	50.00	
High Resolution Temperature Constants MCG 159			
			Last Edited on 28-NOV-2006,15:40
Pre-filter Length	11		
Caliper Calibration MTC 006			
			Base Calibration on 25-JAN-2007,18:14
			Field Calibration on 10-FEB-2007,20:21
Base Calibration			
Reading No	Measured	Calibrator Size (mm)	
1	14734	110.00	
2	17539	162.00	
3	20248	212.00	
4	22990	262.00	
5	25897	311.00	
6	N/A	N/A	
Field Calibration			
	Measured Caliper (mm)	Actual Caliper (mm)	
	208.70	205.70	
Gamma Calibration MGS 010			
	Measured	Calibrated (API)	Field Calibration on 7-FEB-2007,09:09
Background	48	31	
Calibrator (Gross)	1256	825	
Calibrator (Net)	1208	794	
Gamma Constants MGS 010			
			Last Edited on 15-FEB-2007,06:48
Gamma Calibrator Number	grcc075		
Mud Density	1060.00	kg/m3	
Caliper Source for Processing	Density Caliper		
Tool Position	Centred		
Concentration of KCl	0.00	kppm	
Neutron Calibration MDN 144			
			Base Calibration on 25-JAN-2007 18:05
			Field Check on 15-FEB-2007 05:21
Base Calibration			
	Measured	Calibrated (cps)	
	Near Far	Near Far	
	2967 93	3714 110	
Ratio	31.886	33.764	

Field Calibrator at Base	Calibrated (cps)
	2065 2999
Ratio	0.689
Field Check	Calibrated (cps)
	2094 3091
Ratio	0.677

Neutron Constants MDN 144

Last Edited on 18-JAN-2007,02:18

Neutron Source Id	16145b
Neutron Jig Number	
Epithermal Neutron	No
Caliper Source for Processing	Density Caliper
Stand-off	0.00 mm
Mud Density	1000.00 kg/m3
Limestone Sigma	7.10 cu
Sandstone Sigma	4.26 cu
Dolomite Sigma	4.70 cu
Formation Pressure Source	Constant Value
Formation Pressure	0.00 kPa
Temperature Source	MCG External Temperature
Temperature	20.00 degrees C
Mud Salinity	0.00 kppm
Formation Fluid Salinity Source	Constant Value
Formation Fluid Salinity	0.00 kppm
Barite Mud Correction	Not Applied

Photo Density Calibration MPD 036

Base Calibration on 8-MAR-2007,10:54
Field Check on

Density Calibration	Measured		Calibrated (sdu)	
Base Calibration	Near	Far	Near	Far
Reference 1	52802	28585	60352	31615
Reference 2	21780	2767	25043	2540

Field Check at Base	1184.8	1494.9
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Field Check	0.0	0.0
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PE Calibration	Measured		Calibrated
Base Calibration	WS	WH	Ratio
Background	213	1052	
Reference 1	22151	53000	0.422
Reference 2	5909	20800	0.288

Field Check at Base	213.1	1051.7
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Field Check	0.0	0.0
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Density Constants MPD 036

Last Edited on 15-FEB-2007,04:55

Density Source Id	2834GW
Nylon Calibrator Number	608
Aluminium/Fe Calibrator Number	608
Density Shoe Profile	4 inch
Caliper Source for Processing	Density Caliper
PE Correction to Density	Not Applied
Mud Density	1000.00 kg/m3

Mud Density Z/A Correction	1.11	
Mud Filtrate Density	1000.00	kg/m3
Dry Hole Mud Filtrate Density	1000.00	kg/m3
DNCT	0.00	kg/m3
CRCT	0.00	kg/m3
Density Z/A Correction	Advanced	
Matrix Density (kg/m3)	Depth (m)	
2710.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	

Caliper Calibration MPD 036			Base Calibration on 23-JAN-2007 04:20
			Field Calibration on 7-FEB-2007,11:28
Base Calibration			
Reading No	Measured	Calibrator Size (mm)	
1	18576	110.00	
2	28032	162.00	
3	37841	212.00	
4	48080	262.00	
5	57920	311.00	
6	N/A	N/A	
Field Calibration			
	Measured Caliper (mm)	Actual Caliper (mm)	
	166.10	166.10	

DOWNHOLE EQUIPMENT

C:\Temp\Weatherford PreView\0\REPEAT.dta

Compact Gamma
MCG 159 Length: 2.65 m

Weight: 63.9 lb

Compact Focussed Electric
MFE 17 Length: 1.84 m

Weight: 48.5 lb

Compact Two Arm Caliper
MTC 6 Length: 2.17 m

Weight: 61.7 lb

Compact Short Gamma
MGS 10 Length: 1.04 m

Weight: 24.3 lb

20.78 m GRGC - Gamma Ray

19.90 m CGXT - MCG External Temperature

18.79 m FEFE - Shallow FE

16.33 m CLYC - Y Two Arm Caliper

15.46 m GRGM - MGS Gamma Ray

Compact InterSonde Crank
ISC 159 Length: 0.70 m

Weight: 24.3 lb

Compact Micro-log
MML 15 Length: 2.43 m

Weight: 81.6 lb

Compact Neutron
MDN 144 Length: 1.53 m

Weight: 50.7 lb

Compact Density/Caliper
MPD 36 Length: 2.92 m

Weight: 90.4 lb

Compact Sonic
MSS 60 Length: 3.82 m

Weight: 72.8 lb

Compact Induction
MAI 72 Length: 3.29 m

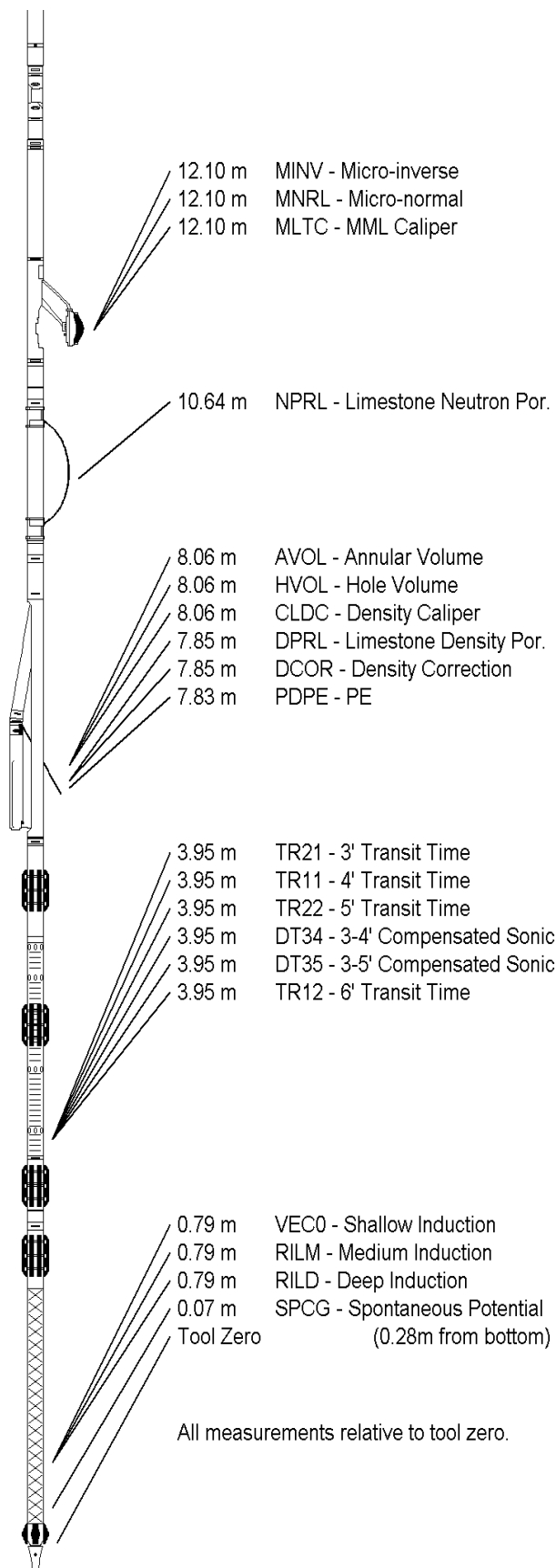
Weight: 48.5 lb

Compact Hole Finder
HFS 1 Length: 0.24 m

Weight: 2.2 lb

Total Length: 22.63 m

Weight: 568.8 lb



COMPANY
WELL

PARAMOUNT RESOURCES LTD.
PARAMOUNT ET AL CAMERON J-04

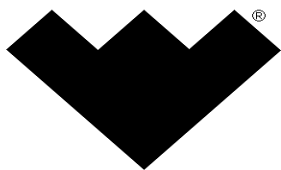
FIELD	CAMERON HILLS
PROVINCE/COUNTY	NORTH WEST TERRITORIES
COUNTRY/STATE	CANADA

Elevation Kelly Bushing	769.20	metres	First Reading	1448.70	metre
Elevation Drill Floor		metres	Depth Driller	1449.00	metres
Elevation Ground Level	765.20	metres	Depth Logger	1449.50	metres



Weatherford®

MINI PLOT



MICROLOG

COMPANY **PARAMOUNT RESOURCES LTD.**
WELL **PARAMOUNT ET AL CAMERON J-04**
FIELD **CAMERON HILLS**
PROVINCE/COUNTY **NORTH WEST TERRITORIES**
COUNTRY/STATE **CANADA**
LOCATION **300/J-04-60-10-117-30**

FIELD PRINT

LSD	SEC	TWP	RGE	Other Services	PHOTO DENSITY DUAL SPACED NEUTRON
API Number				ARRAY INDUCTION	
Permit Number 1159				COMPENSTATED SONIC	
Permanent Datum GROUND LEVEL, Elevation 765.20 metres					Elevations: metres
Log Measured From 4.00 M above Permanent Datum					KB 769.20
Drilling Measured From KB					DF GL 765.20
Date	15-FEB-2007				
Run Number	1				
Depth Driller	1449.00	metres			
Depth Logger	1449.50	metres			
First Reading					
Last Reading	430.00	metre			
Casing Driller	430.00	metres			
Casing Logger	429.80	metres			
Bit Size	200.00	mm			
Hole Fluid Type	GELCHEM				
Density / Viscosity	1060.0 kg/M3	93.00	CP		
PH / Fluid Loss	11.00	11.00	ml/30Min		
Sample Source	FLOWLINE				
Rm @ Measured Temp	1.18 @ 25.0	ohm-m			
Rmf @ Measured Temp	1.04 @ 25.0	ohm-m			
Rmc @ Measured Temp	1.32 @ 25.0	ohm-m			
Source Rmf / Rmc	PRESS	FILTER			
Rm @ BHT	0.78 @ 48.0	ohm-m			
Time Since Circulation	6 HRS				
Max Recorded Temp	48.00	deg C			
Equipment Name	COMPACT				
Equipment / Base	13124	GPR			
Recorded By	G. SINGER				
Witnessed By	A. AHMED				
CIRC. STOP TIME	01:30-FEB-15	Last Line			

BOREHOLE RECORD				Last Edited: 15-FEB-2007 05:01	
Bit Size millimetres	Depth From metres		Depth To metres		
311.000	0.00		430.00		
200.000	430.00		1449.00		
CASING RECORD					
Type	Size millimetres	Depth From metres	Shoe Depth metres	Weight Kg/metre	
SURFACE	219.100	0.00	430.00	35.72	

REMARKS

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MDN: DUAL BOWSPRING AND INTERSONIC CRANK
MTC: SIX LEAF CENTRALIZER

- 5) SERVICE ORDER #: 30073028
 - 6) RIG: PD 129
- SAP #: 4147101 # FIELD PRINTS = 3

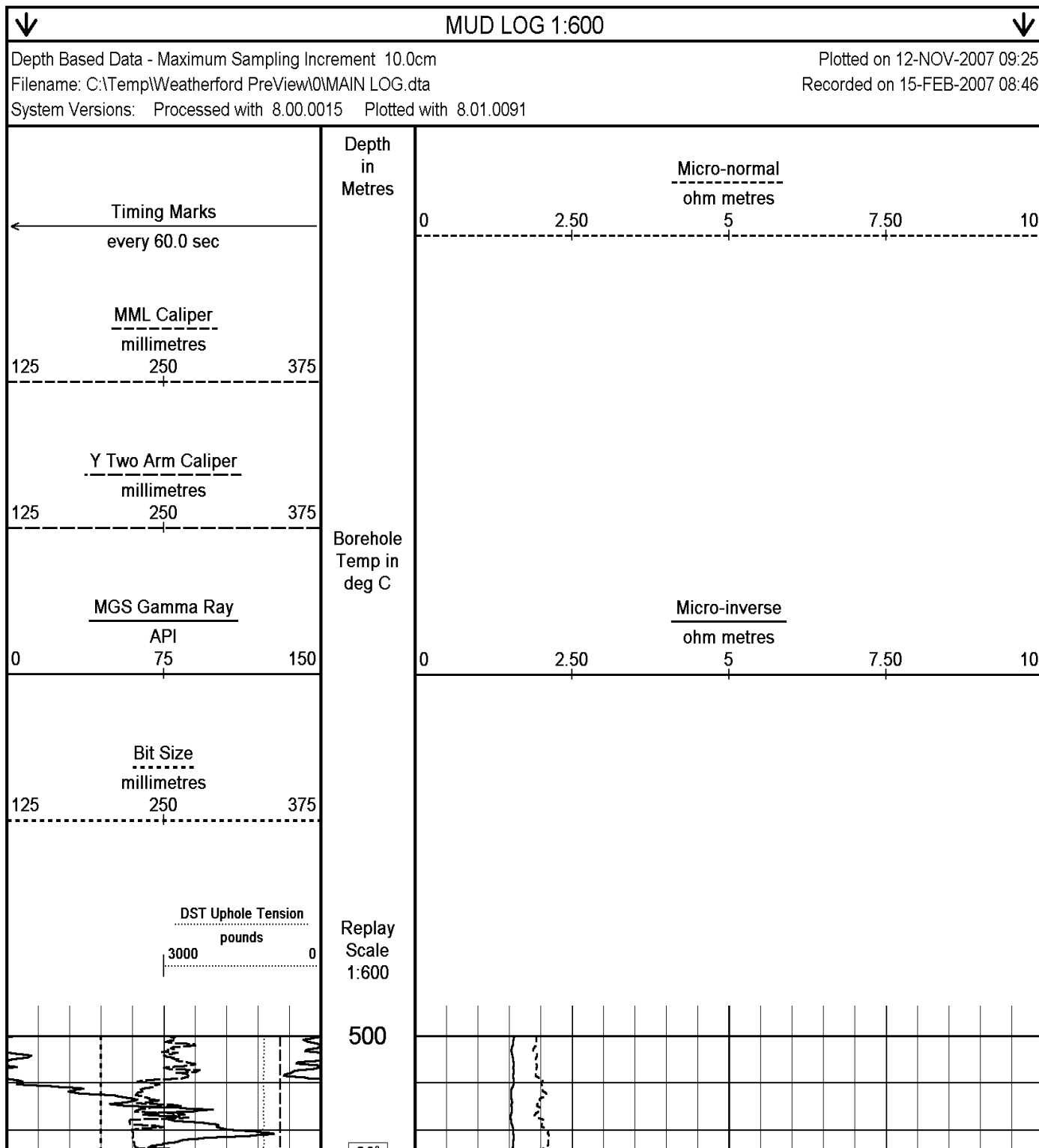
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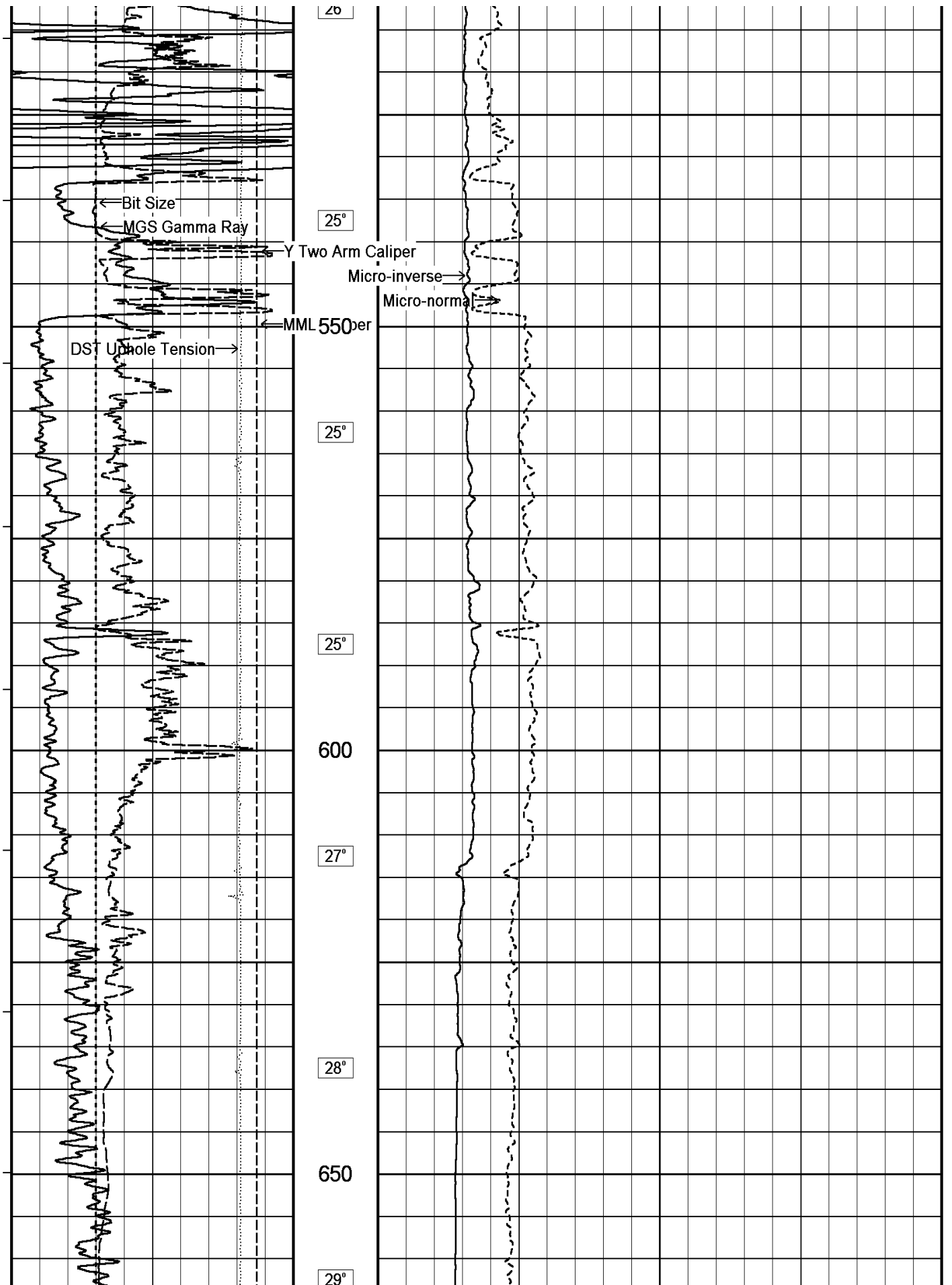
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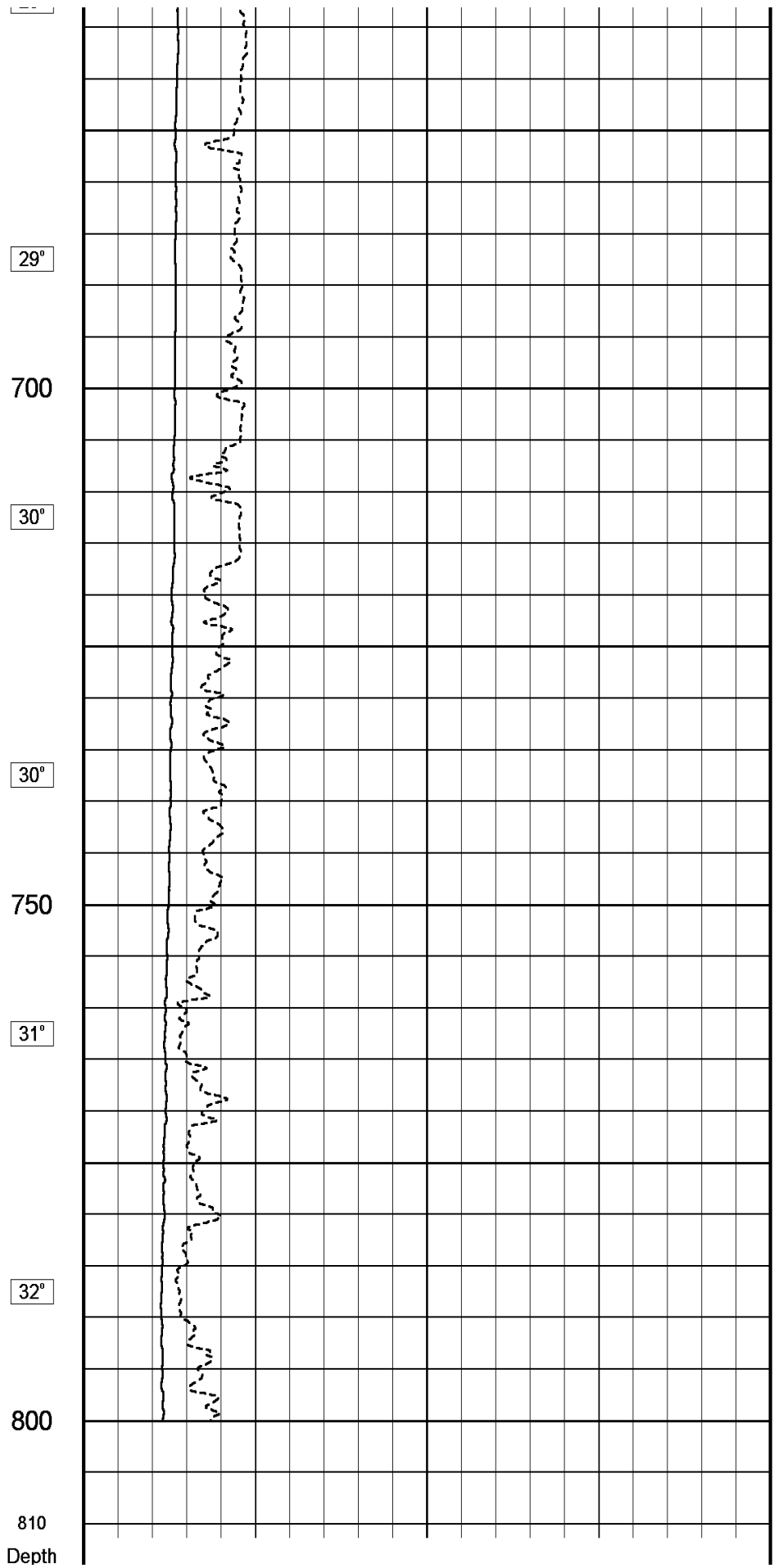
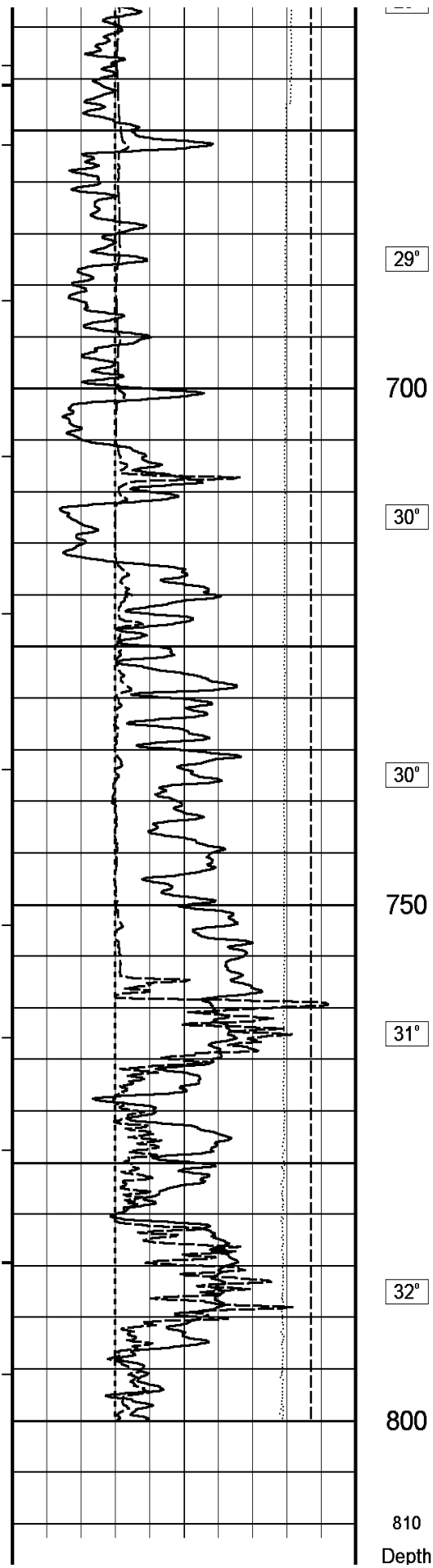
ANNULAR VOLUME USING 139.7 MM PRODUCTION CASING = 21.8 CU.M

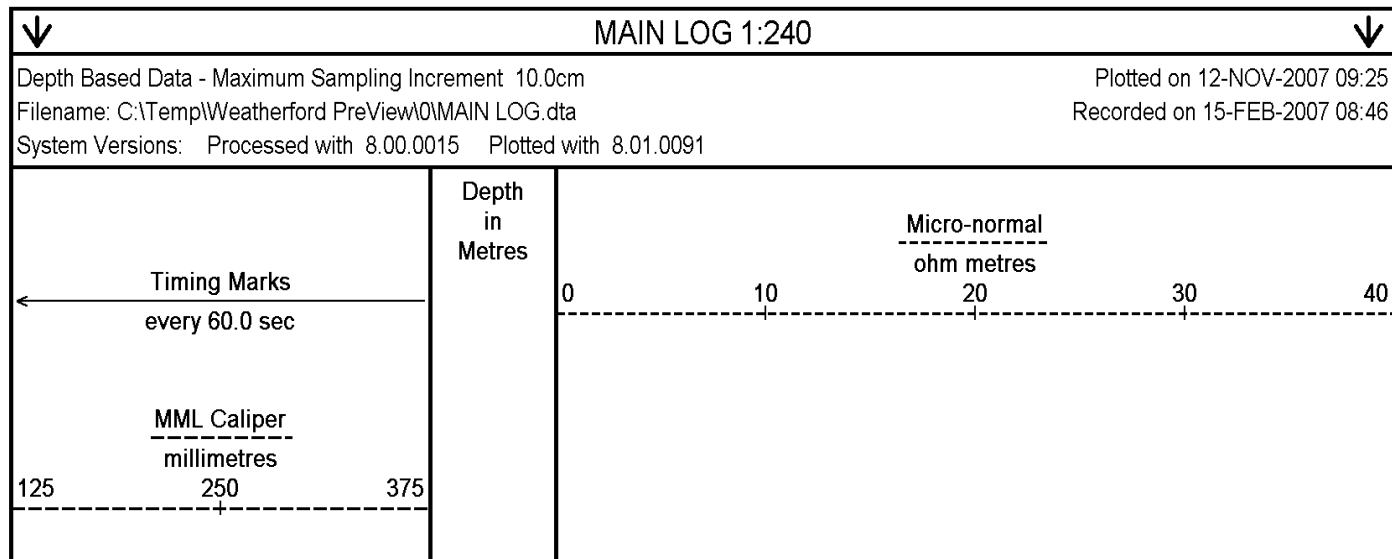
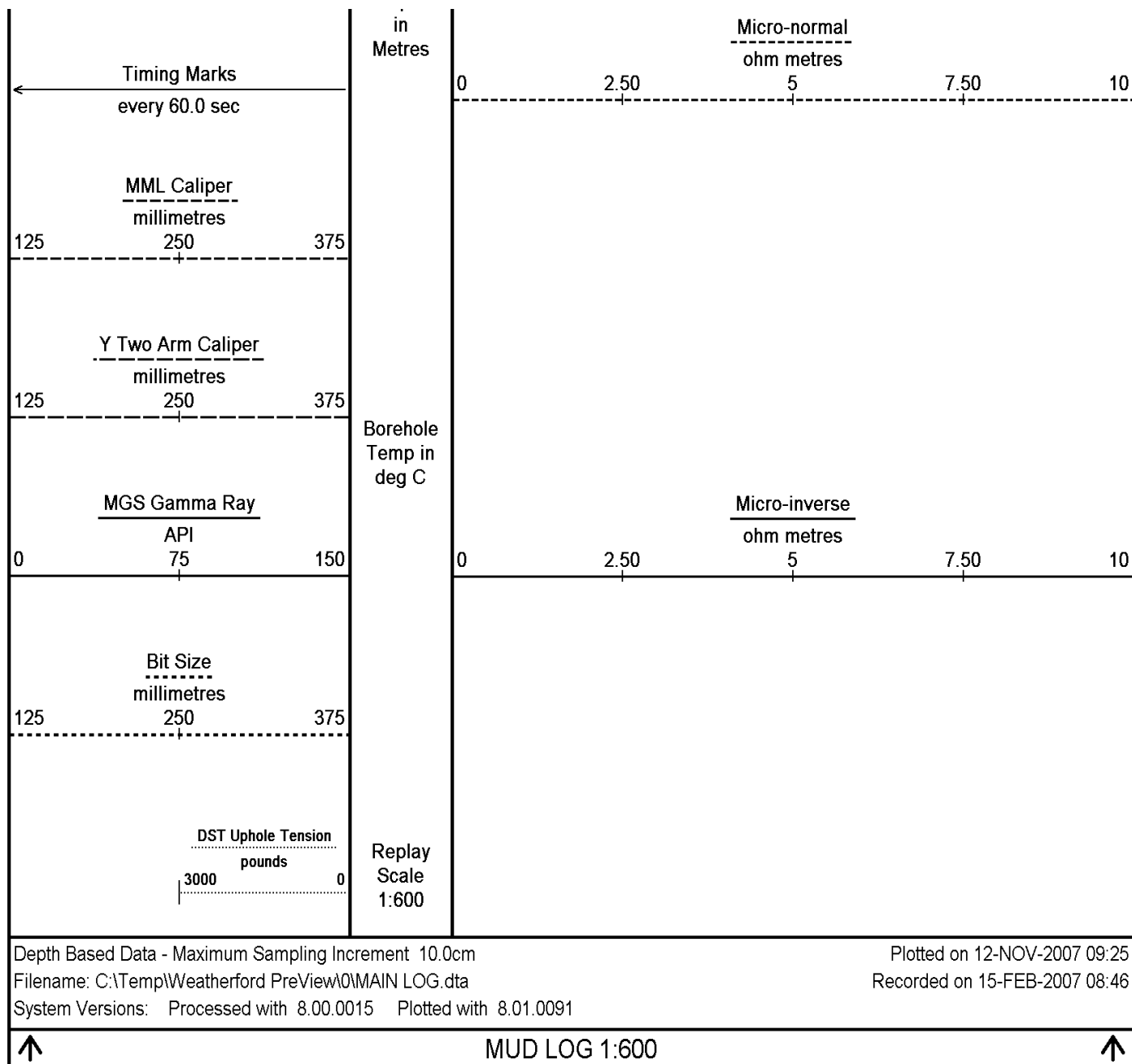
8) SONIC FREE PIPE FOUND FROM 352M - 357M

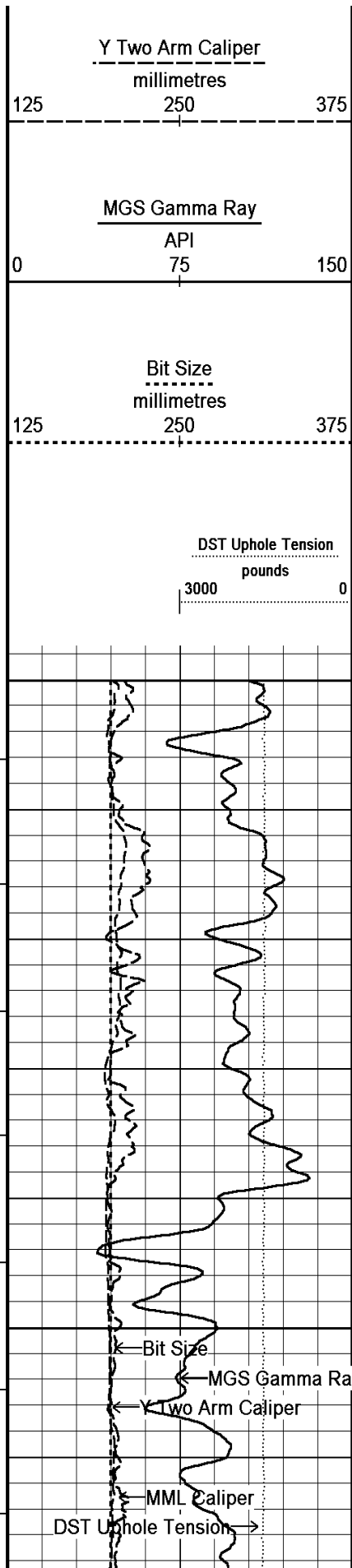
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Borehole
Temp in
deg C

Replay
Scale
1:240

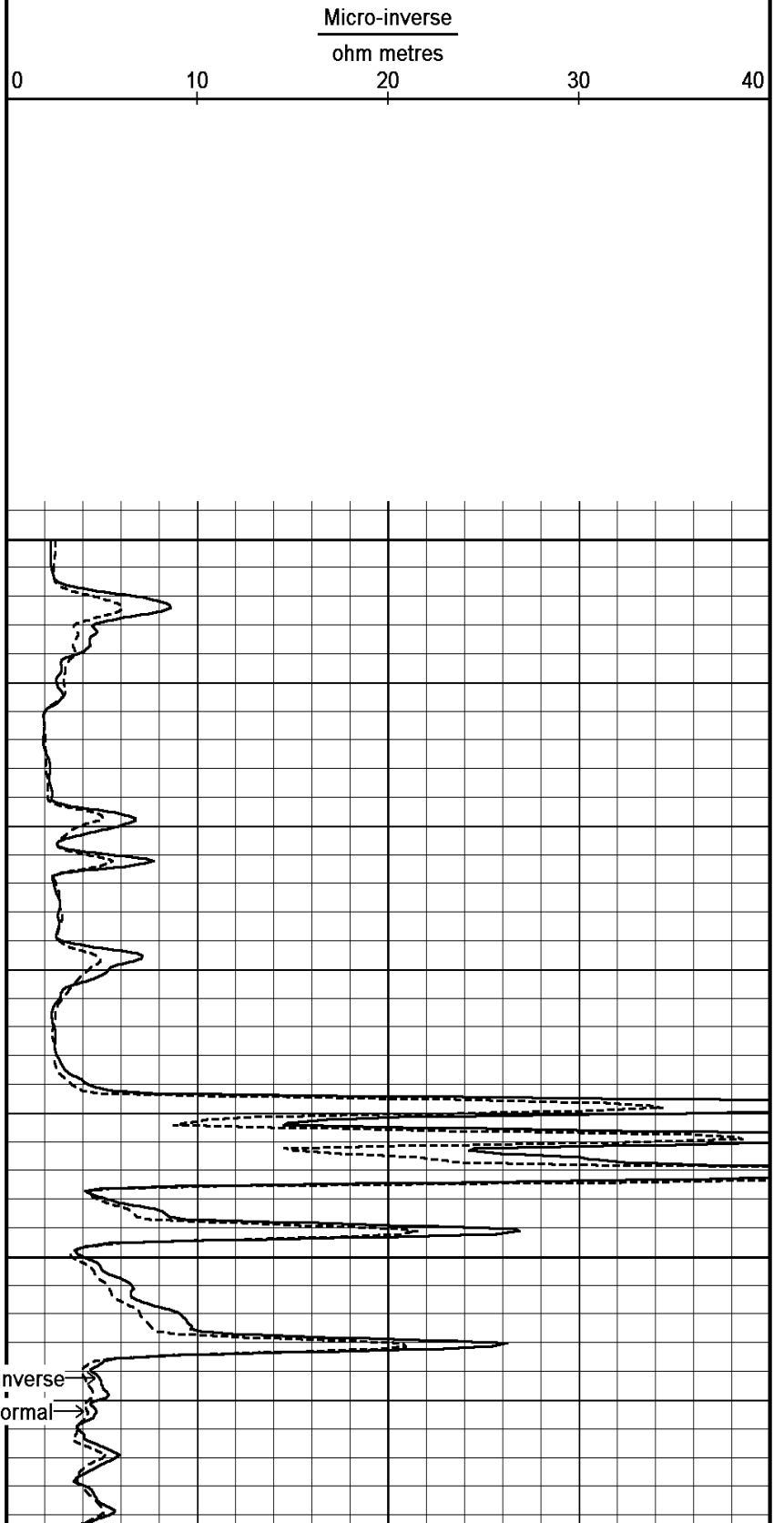
1300

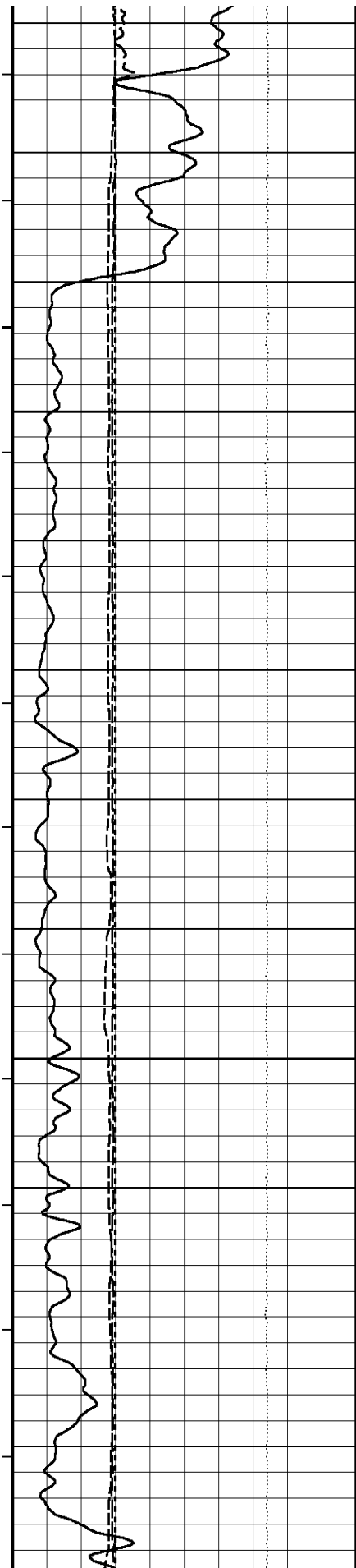
1310

44°

1320

Micro-inverse
1330
micro-normal





45°

1340

1350

1360

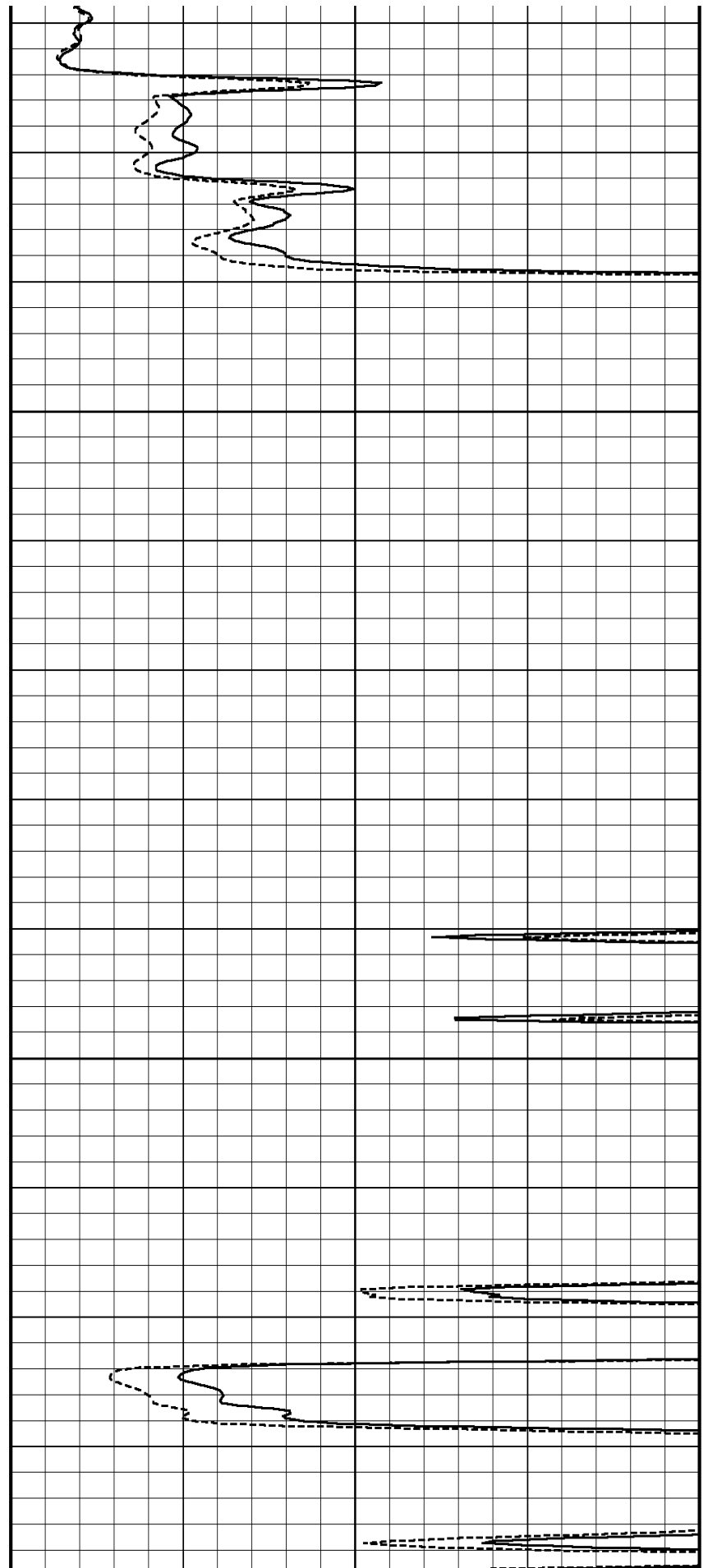
45°

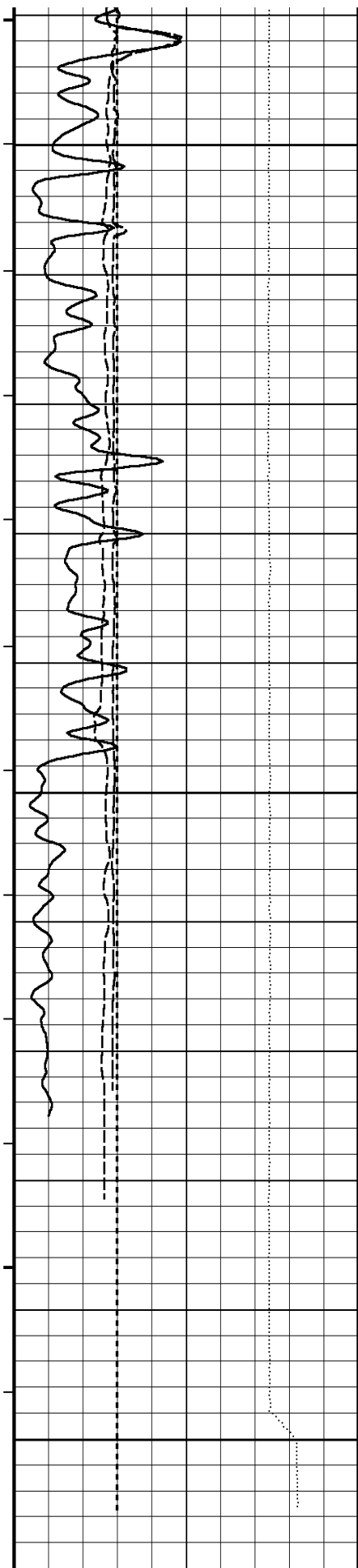
1370

1380

46°

1390





1400

1410

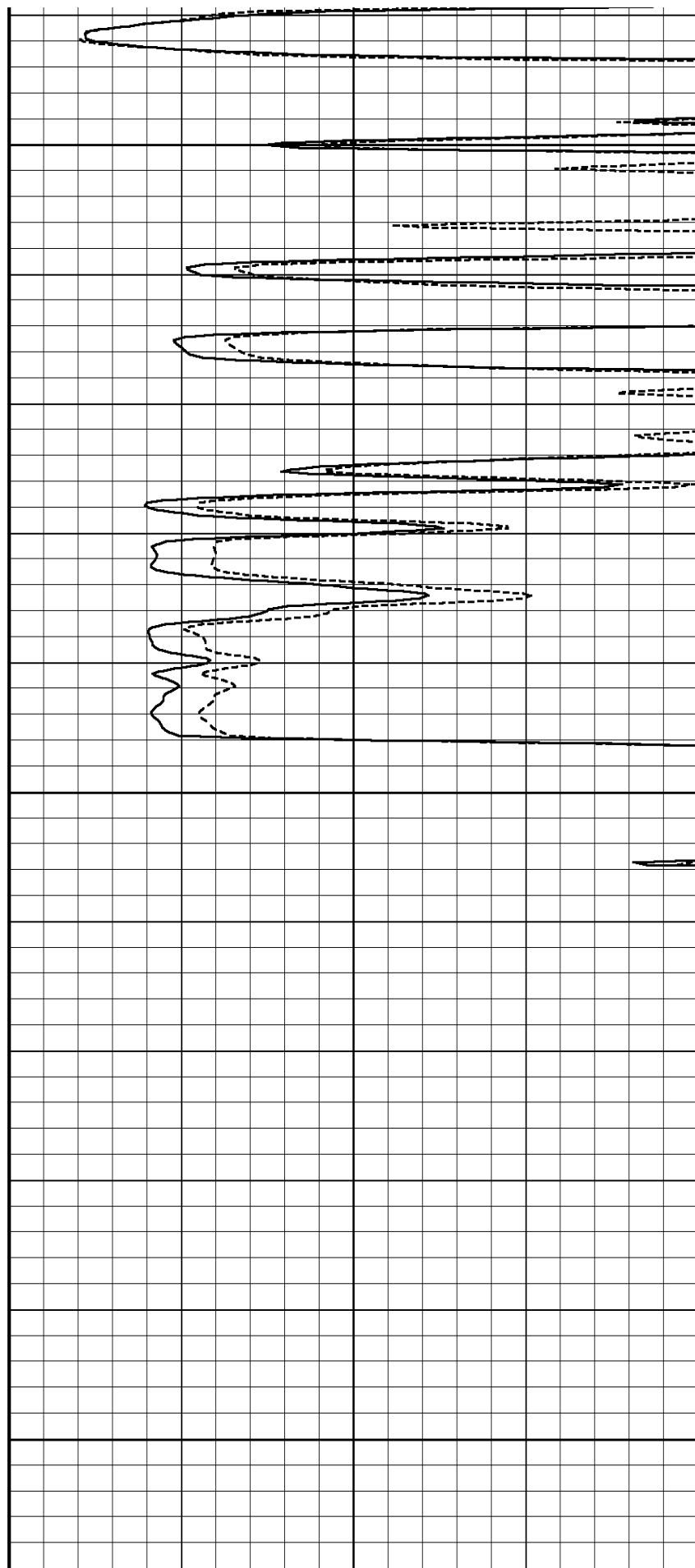
48°

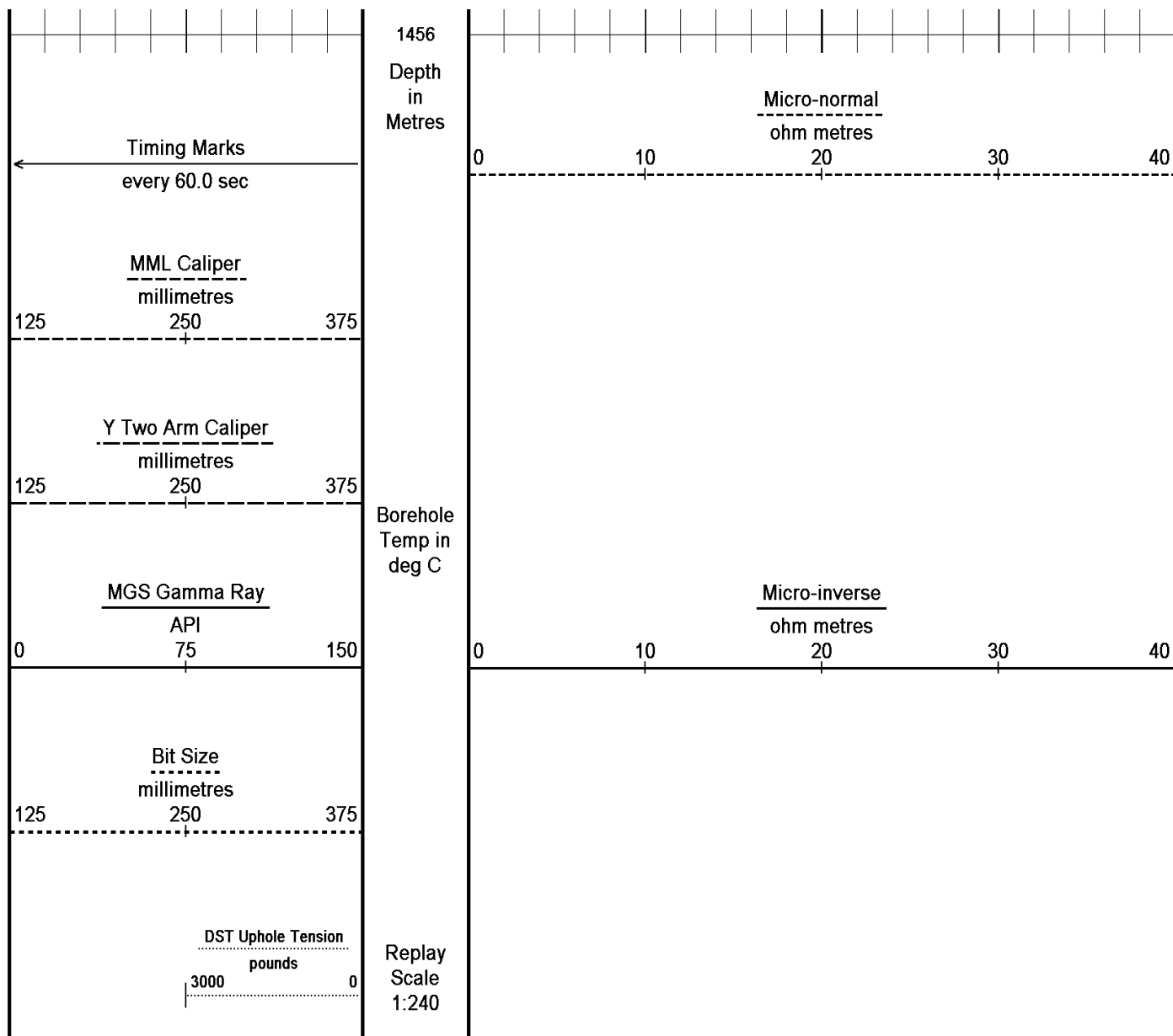
1420

1430

1440

1450





Depth Based Data - Maximum Sampling Increment 10.0cm

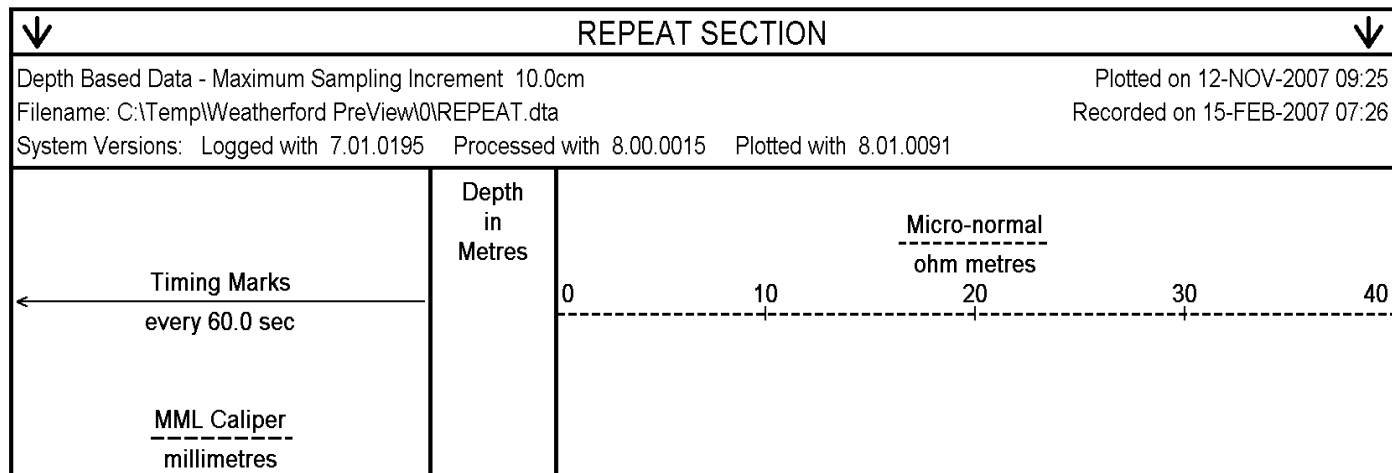
Plotted on 12-NOV-2007 09:25

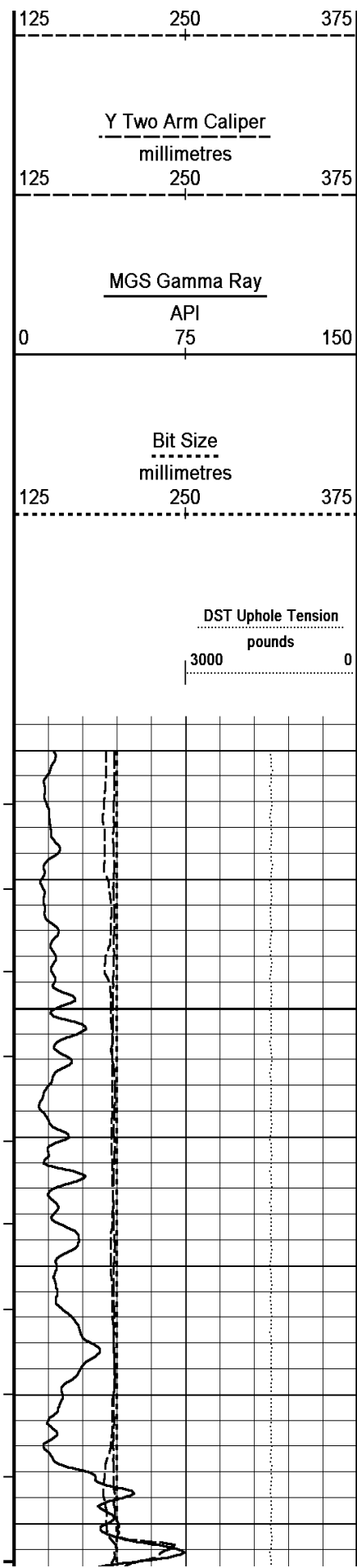
Filename: C:\Temp\Weatherford PreView\0\MAIN LOG.dta

Recorded on 15-FEB-2007 08:46

System Versions: Processed with 8.00.0015 Plotted with 8.01.0091

↑ MAIN LOG 1:240 ↑

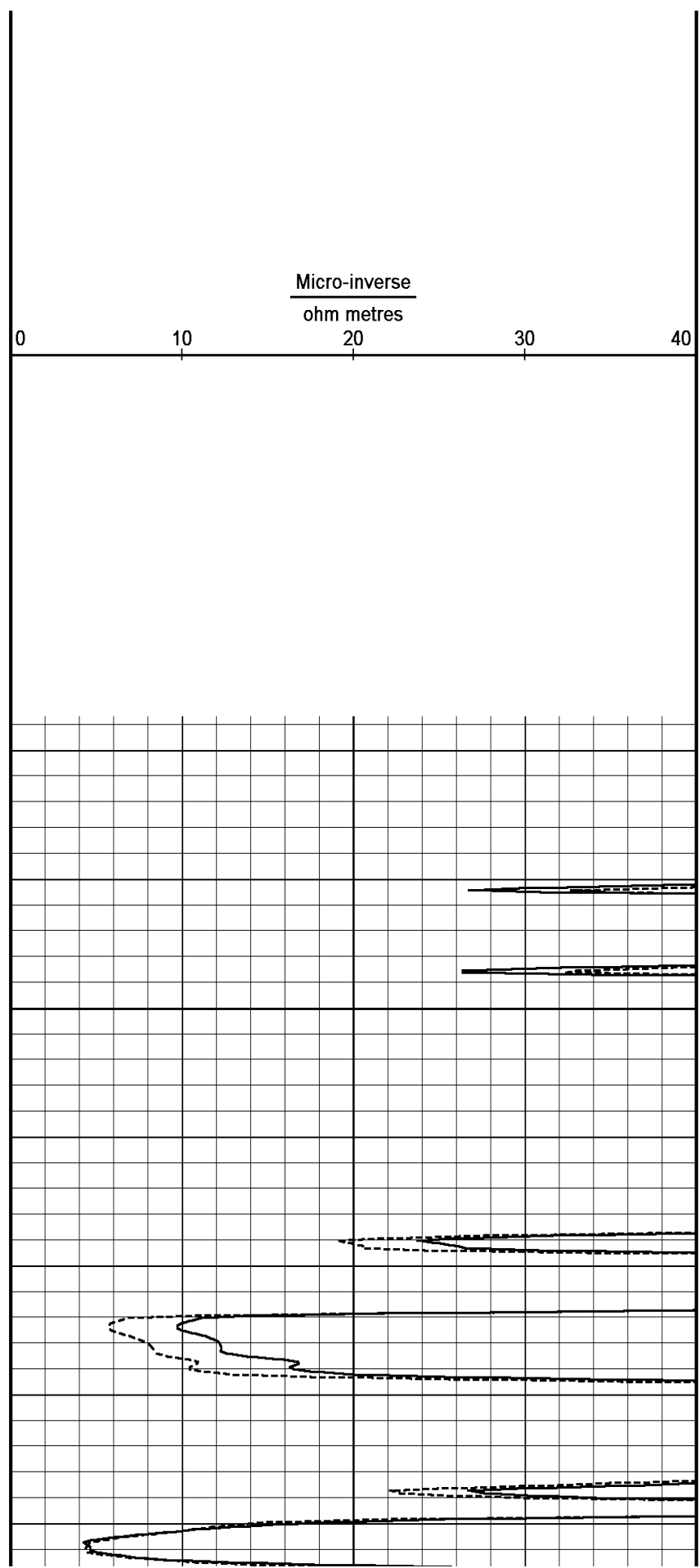


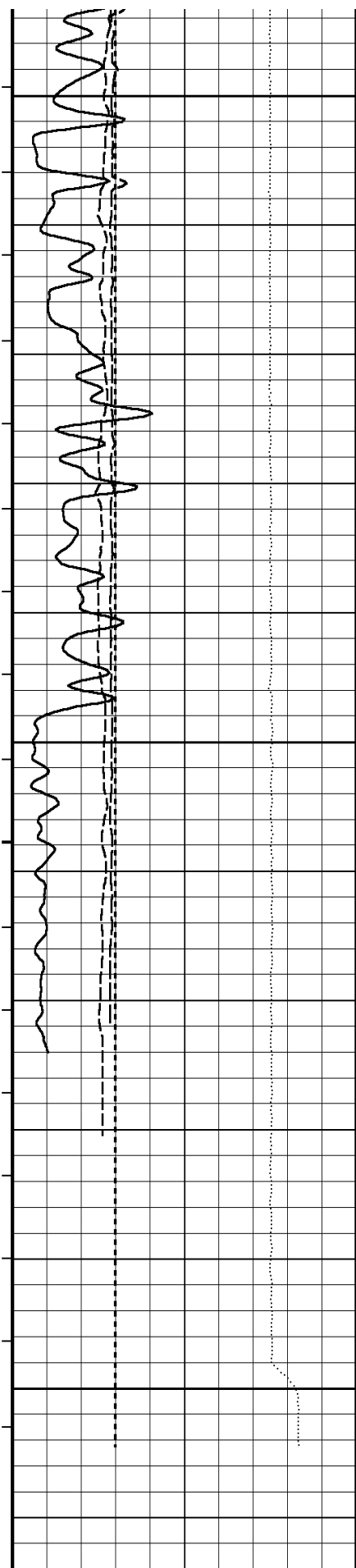


Borehole
Temp in
deg C

Replay
Scale
1:240

1365
1370
1380
45°
1390





1400

1410

46°

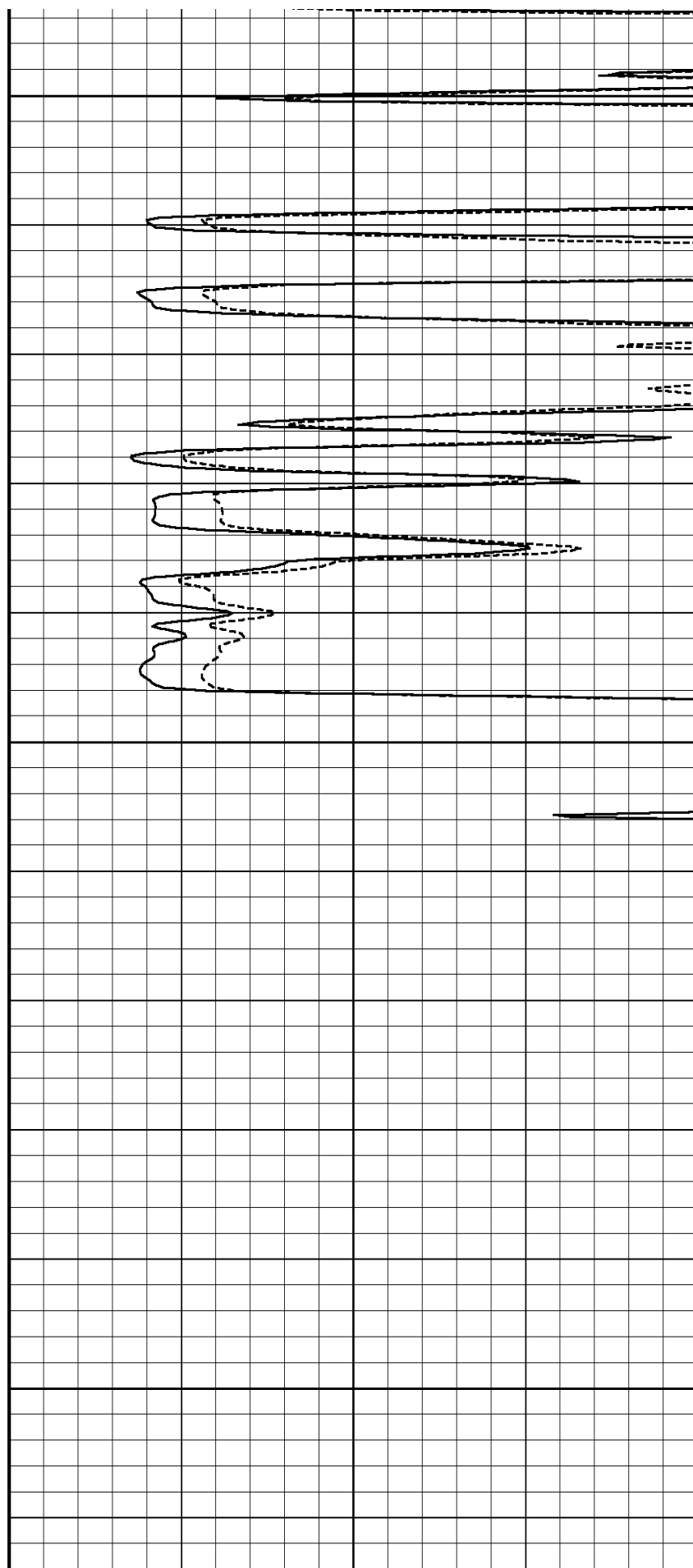
1420

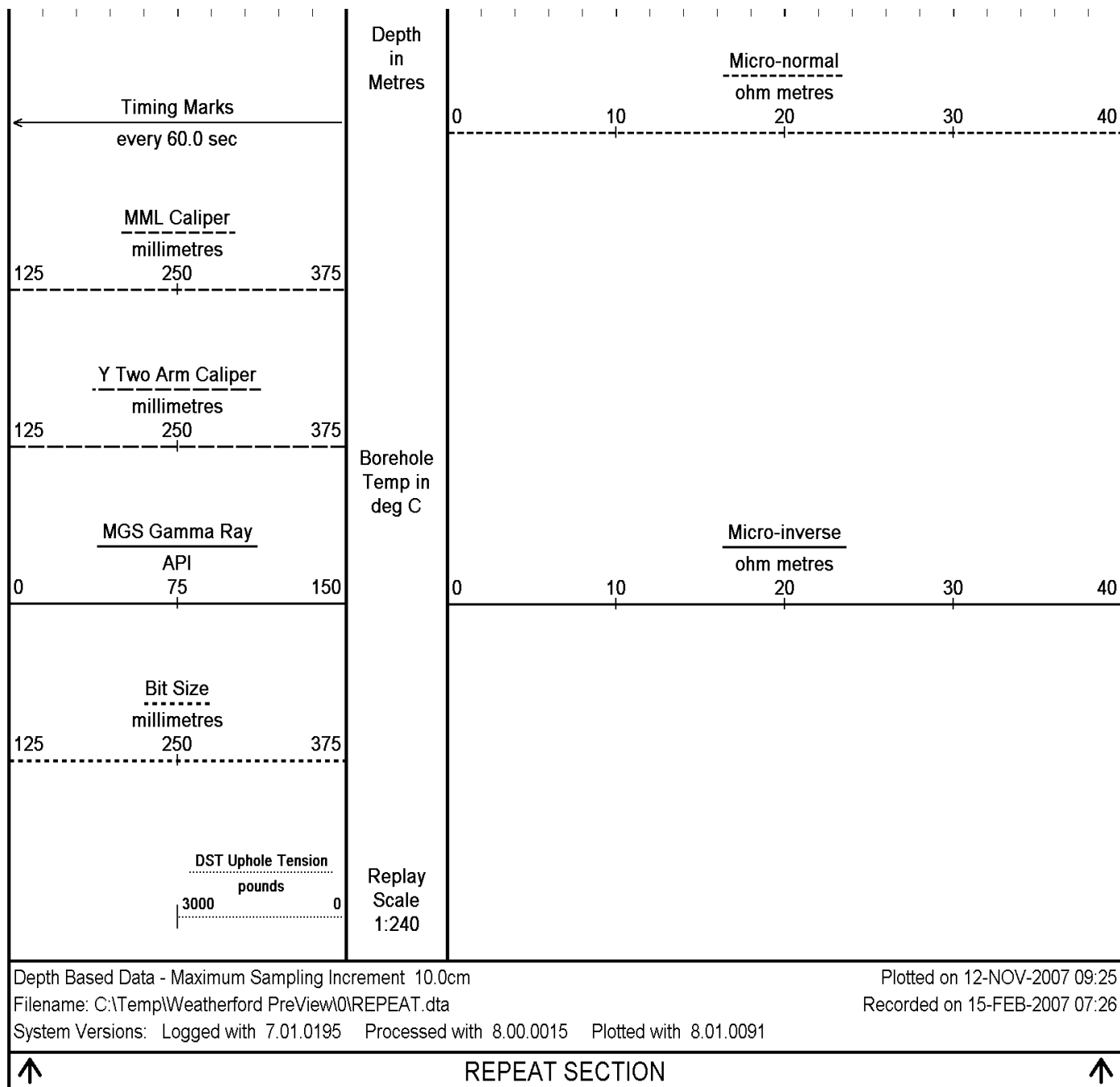
1430

1440

1450

1456





BEFORE SURVEY CALIBRATION		
C:\Temp\Weatherford PreView\0\REPEAT.dta		
General Constants All 000		Last Edited on 15-FEB-2007,06:48
General Parameters		
Mud Resistivity	1.180	ohm-metres
Mud Resistivity Temperature	25.000	degrees C
Water Level	0.000	metres
Density/Neutron Processing	Wet Hole	
Hole/Annular Volume and Differential Caliper Parameters		
HVOL Caliper 1	Density Caliper	
HVOL Caliper 2	Y Two Arm Caliper	
Annular Volume Diameter	139.700	mm
Caliper for Differential Caliper	Densitv Caliper	

Rwa Parameters		
Porosity used	Base Density Porosity	
Resistivity used	Deep Induction	
RWA Constant A	0.610	
RWA Constant M	2.150	
High Resolution Temperature Calibration MCG 159		
	Measured	Calibrated(Deg C)
Lower	10.00	10.00
Upper	50.00	50.00
High Resolution Temperature Constants MCG 159		
Last Edited on 28-NOV-2006,15:40		
Pre-filter Length 11		
Caliper Calibration MTC 006		
Base Calibration on 25-JAN-2007,18:14		
Field Calibration on 10-FEB-2007,20:21		
Base Calibration		
Reading No	Measured	Calibrator Size (mm)
1	14734	110.00
2	17539	162.00
3	20248	212.00
4	22990	262.00
5	25897	311.00
6	N/A	N/A
Field Calibration		
	Measured Caliper (mm)	Actual Caliper (mm)
	208.70	205.70
Gamma Calibration MGS 010		
	Measured	Calibrated (API)
Background	48	31
Calibrator (Gross)	1256	825
Calibrator (Net)	1208	794
Gamma Constants MGS 010		
Last Edited on 15-FEB-2007,06:48		
Gamma Calibrator Number	grcc075	
Mud Density	1060.00	kg/m3
Caliper Source for Processing	Density Caliper	
Tool Position	Centred	
Concentration of KCl	0.00	kppm
Micro Normal and Micro Inverse Calibration MML 015		
Base Calibration on 25-JAN-2007,17:08		
Field Check on 12-FEB-2007 04:00		
Base Calibration		
	Measured	Calibrated (ohm-m)
Channel	Resistor 1 Resistor 2	Resistor 1 Resistor 2
Micro Normal	9.9 48.5	5.1 25.6
Micro Inverse	9.9 48.7	3.4 16.9
Channel	Base Check (ohm-m)	Field Check (ohm-m)
Micro Normal	79.8	0.0
Micro Inverse	52.6	0.0
Micro Normal and Micro Inverse Constants MML 015		
Last Edited on 15-FEB-2007,04:52		
Micro Normal K Factor	0.5110	
Micro Inverse K Factor	0.3380	
Standoff Offset	N/A	millimetres

DOWNHOLE EQUIPMENT

C:\Temp\Weatherford PreView\0\REPEAT.dta

Compact Gamma
MCG 159 Length: 2.65 m

Weight: 63.9 lb

20.78 m

GRGC - Gamma Ray

19.90 m

CGXT - MCG External Temperature

Compact Focused Electric
MFE 17 Length: 1.84 m

Weight: 48.5 lb

18.79 m

FEFE - Shallow FE

Compact Two Arm Caliper
MTC 6 Length: 2.17 m

Weight: 61.7 lb

16.33 m

CLYC - Y Two Arm Caliper

Compact Short Gamma
MGS 10 Length: 1.04 m

Weight: 24.3 lb

15.46 m

GRGM - MGS Gamma Ray

Compact InterSonde Crank
ISC 159 Length: 0.70 m

Weight: 24.3 lb

Compact Micro-log
MML 15 Length: 2.43 m

Weight: 81.6 lb

12.10 m

MINV - Micro-inverse

12.10 m

MNRL - Micro-normal

12.10 m

MLTC - MML Caliper

Compact Neutron
MDN 144 Length: 1.53 m

Weight: 50.7 lb

10.64 m

NPRL - Limestone Neutron Por.

Compact Density/Caliper
MPD 36 Length: 2.92 m

Weight: 90.4 lb

8.06 m

AVOL - Annular Volume

8.06 m

HVOL - Hole Volume

8.06 m

CLDC - Density Caliper

7.85 m

DPRL - Limestone Density Por.

7.85 m

DCOR - Density Correction

7.83 m

PDPE - PE

Compact Sonic
MSS 60 Length: 3.82 m

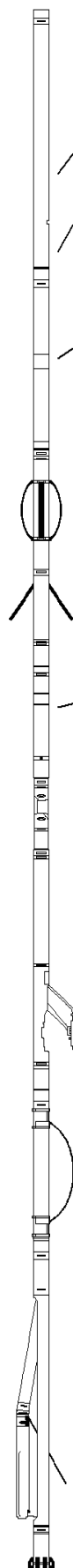
Weight: 72.8 lb

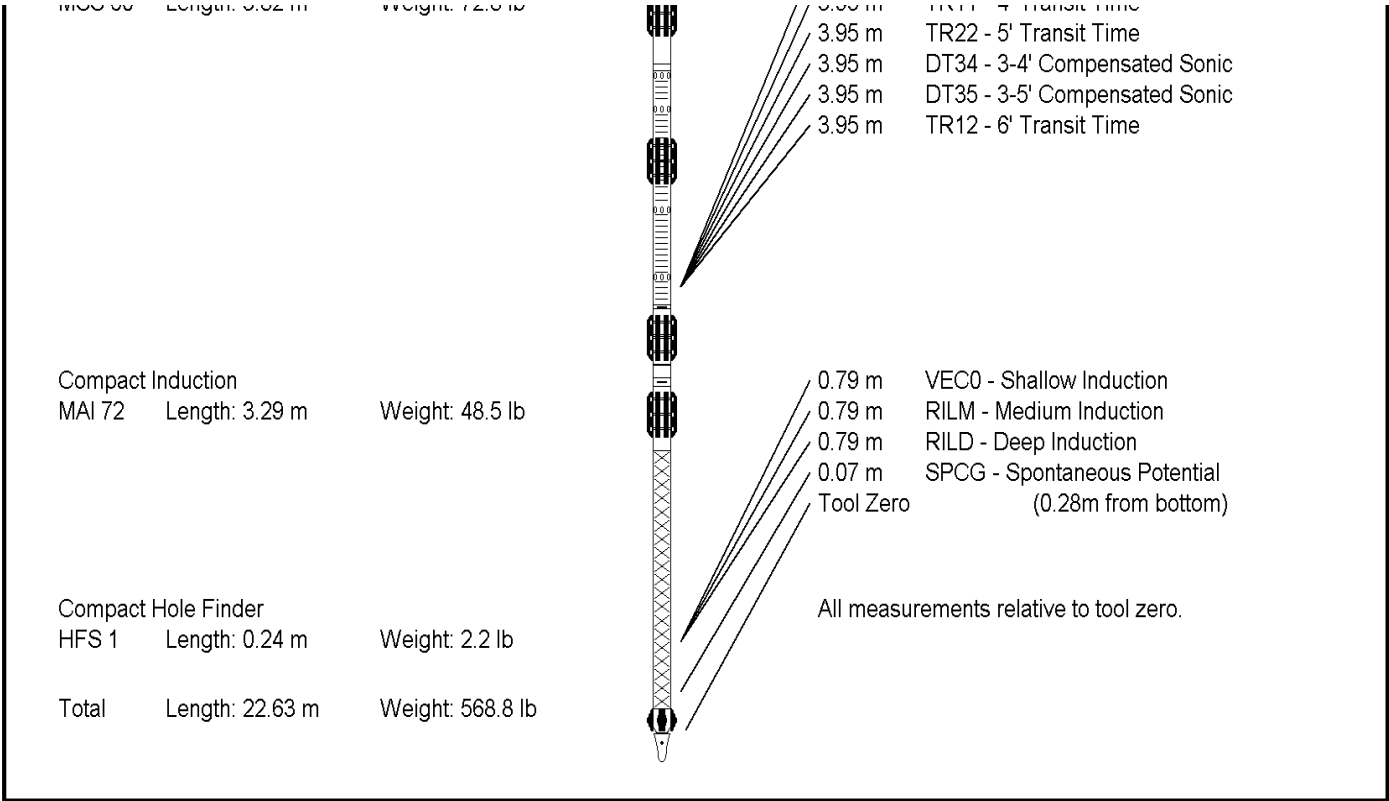
3.95 m


TR21 - 3' Transit Time

3.95 m

TR11 - 1' Transit Time





COMPANY		PARAMOUNT RESOURCES LTD.		
WELL		PARAMOUNT ET AL CAMERON J-04		
FIELD		CAMERON HILLS		
PROVINCE/COUNTY		NORTH WEST TERRITORIES		
COUNTRY/STATE		CANADA		
Elevation Kelly Bushing	769.20	metres	First Reading	metre
Elevation Drill Floor		metres	Depth Driller	1449.00 metres
Elevation Ground Level	765.20	metres	Depth Logger	1449.50 metres
<div><div><div><div>Weatherford[®]</div><div>MICROLOG</div></div></div></div>				



MICROLOG

COMPANY		PARAMOUNT RESOURCES LTD.			
WELL		PARAMOUNT ET AL CAMERON J-04			
FIELD		CAMERON HILLS			
PROVINCE/COUNTY		NORTH WEST TERRITORIES			
COUNTRY/STATE		CANADA			
LOCATION		300/J-04-60-10-117-30			
LSD	SEC	TWP	RGE	Other Services	PHOTO DENSITY DUAL SPACED NEUTRON
API Number		ARRAY INDUCTION			
Permit Number 1159		COMPENSTATED SONIC			
Permanent Datum GROUND LEVEL, Elevation 765.20 metres				Elevations:	metres
Log Measured From 4.00 M above Permanent Datum				KB	769.20
Drilling Measured From KB				DF	
				GL	765.20
Date	15-FEB-2007				
Run Number	1				
Depth Driller	1449.00	metres			
Depth Logger	1449.50	metres			
First Reading					
Last Reading	430.00	metre			
Casing Driller	430.00	metres			
Casing Logger	429.80	metres			
Bit Size	200.00	mm			
Hole Fluid Type	GELCHEM				
Density / Viscosity	1060.0 kg/M3	93.00 CP			
PH / Fluid Loss	11.00	11.00 ml/30Min			
Sample Source	FLOWLINE				
Rm @ Measured Temp	1.18 @ 25.0	ohm-m			
Rmf @ Measured Temp	1.04 @ 25.0	ohm-m			
Rmc @ Measured Temp	1.32 @ 25.0	ohm-m			
Source Rmf / Rmc	PRESS	FILTER			
Rm @ BHT	0.78 @ 48.0	ohm-m			
Time Since Circulation	6 HRS				
Max Recorded Temp	48.00	deg C			
Equipment Name	COMPACT				
Equipment / Base	13124	GPR			
Recorded By	G. SINGER				
Witnessed By	A. AHMED				
CIRC. STOP TIME	01:30-FEB-15	Last Line			

Last Edited: 15-FEB-2007 05:01		
Bit Size millimetres	Depth From metres	Depth To metres
	0.00	430.00
	430.00	1449.00
CASING RECORD		
Type	Size millimetres	Shoe Depth metres
SURFACE	219.100	430.00
		Weight Kg/metre
		35.72

REMARKS

- 1) SOFTWARE ISSUE: WLS 7.01.0195.
- 2) CUSTOMER SCALES AND LOGGED INTERVALS USED
- 3) TOOLS RUN: MAI, MSS, MPD, MDN, MML, ISC, MGS, MTC, MFE, MCG RUN IN COMBINATION
- 4) HARDWARE: MAI: TWO 25.4 MM STANDOFFS
MSS: THREE 25.4 MM STANDOFFS
MDN: DUAL BOWSPRING AND INTERSONIC CRANK
MTC: SIX LEAF CENTRALIZER

- 5) SERVICE ORDER #: 30073028
 - 6) RIG: PD 129
- SAP #: 4147101 # FIELD PRINTS = 3

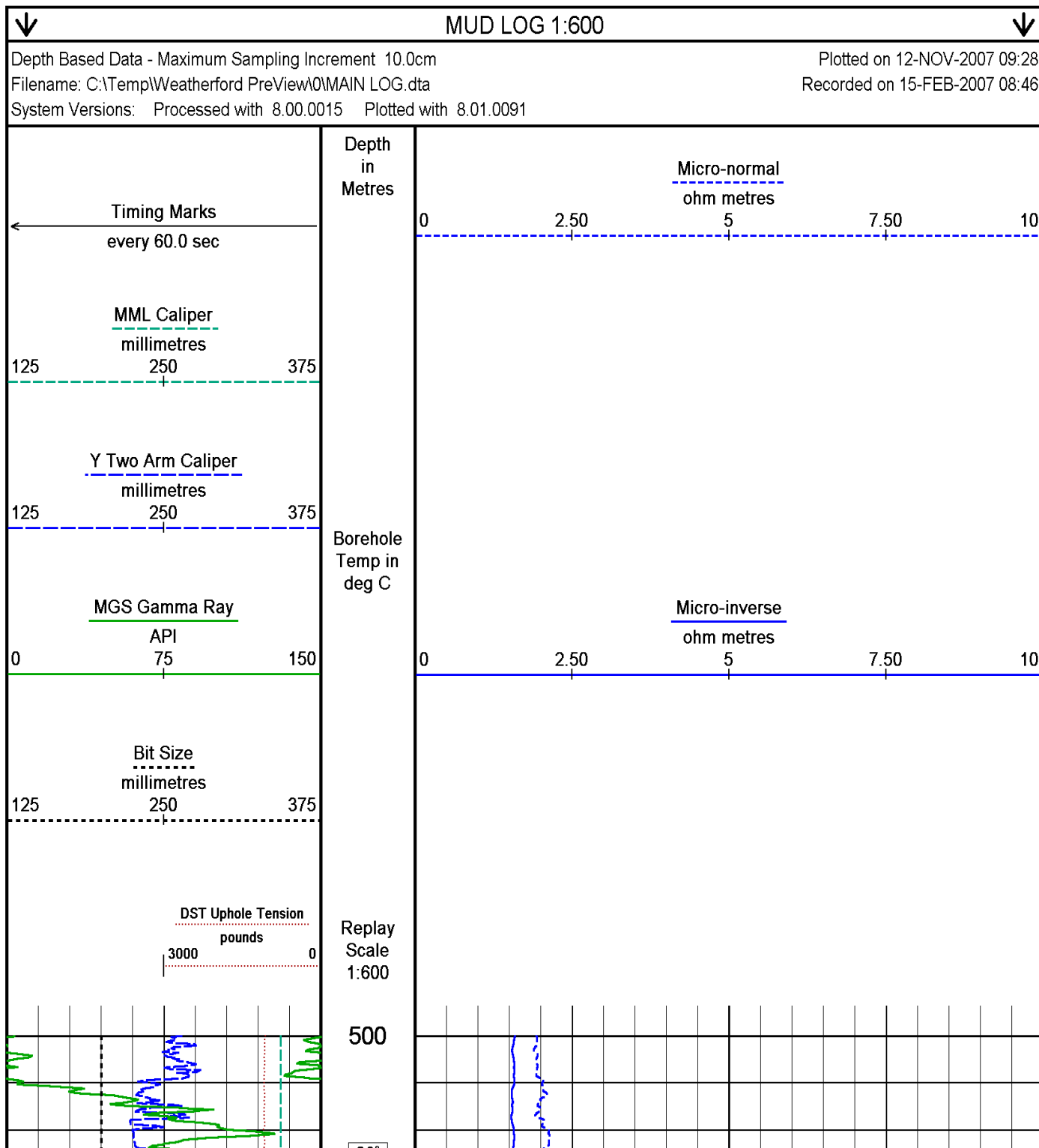
7) HOLE AND CEMENT VOLUMES CALCULATED USING DENSITY AND 2-ARM CALIPERS :

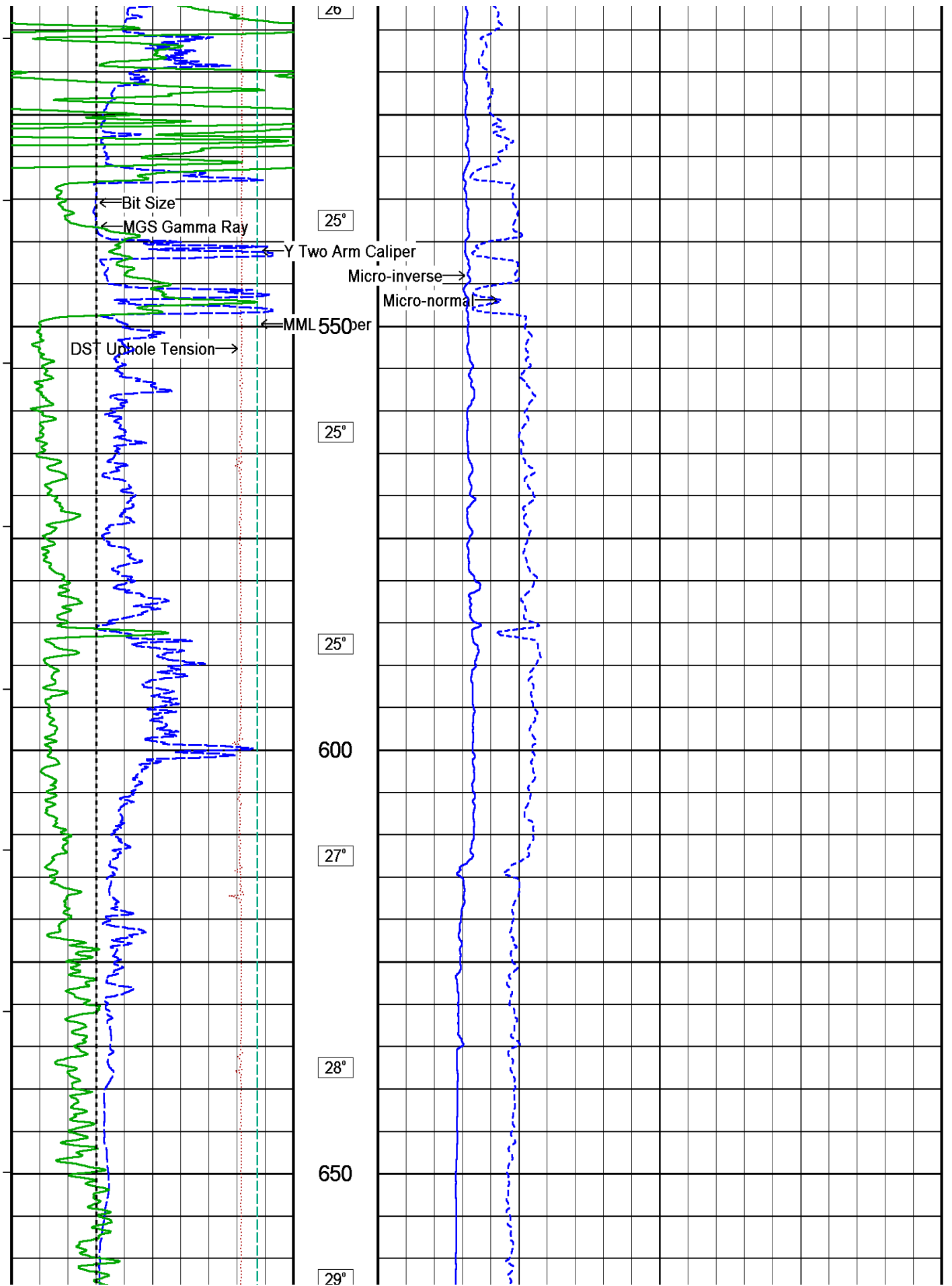
HOLE VOLUME = 37.4 CU.M.

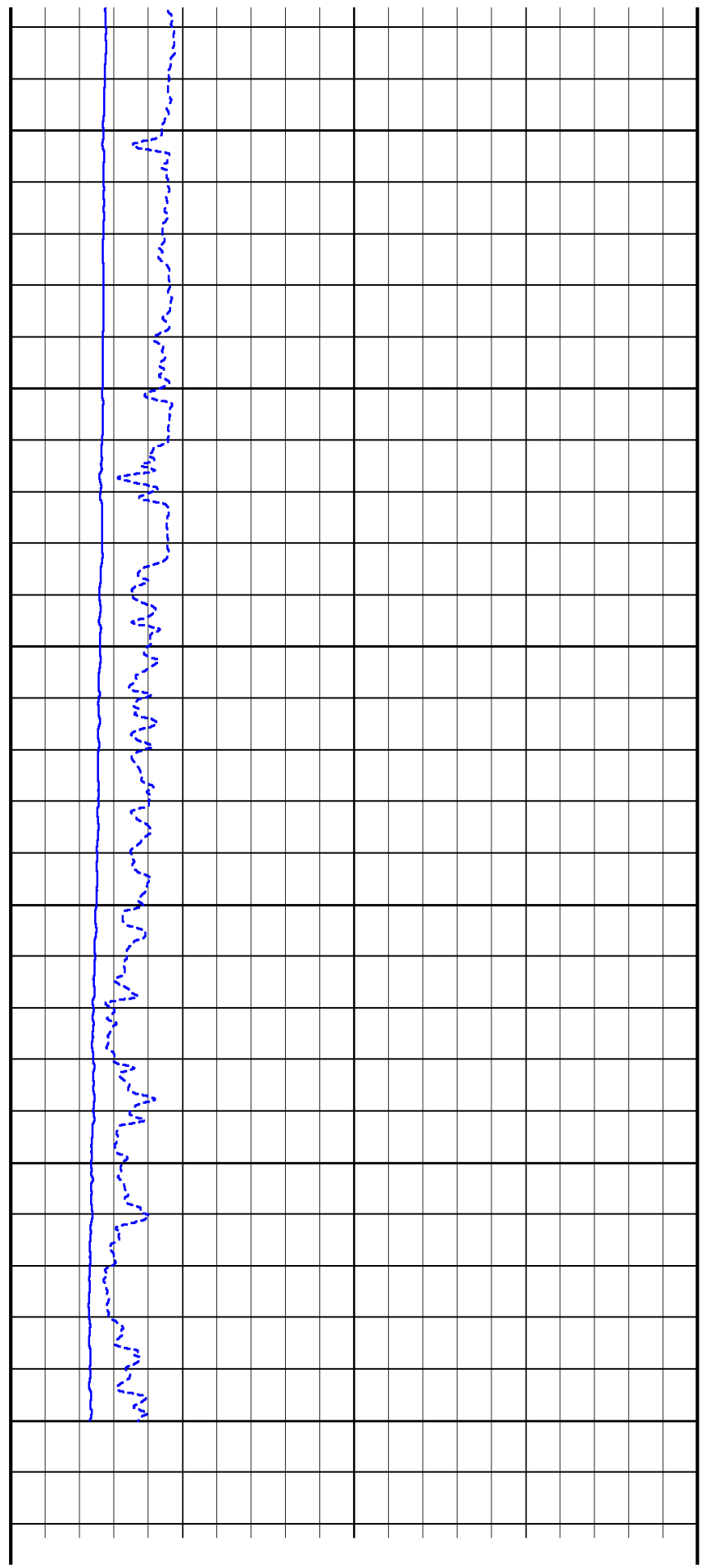
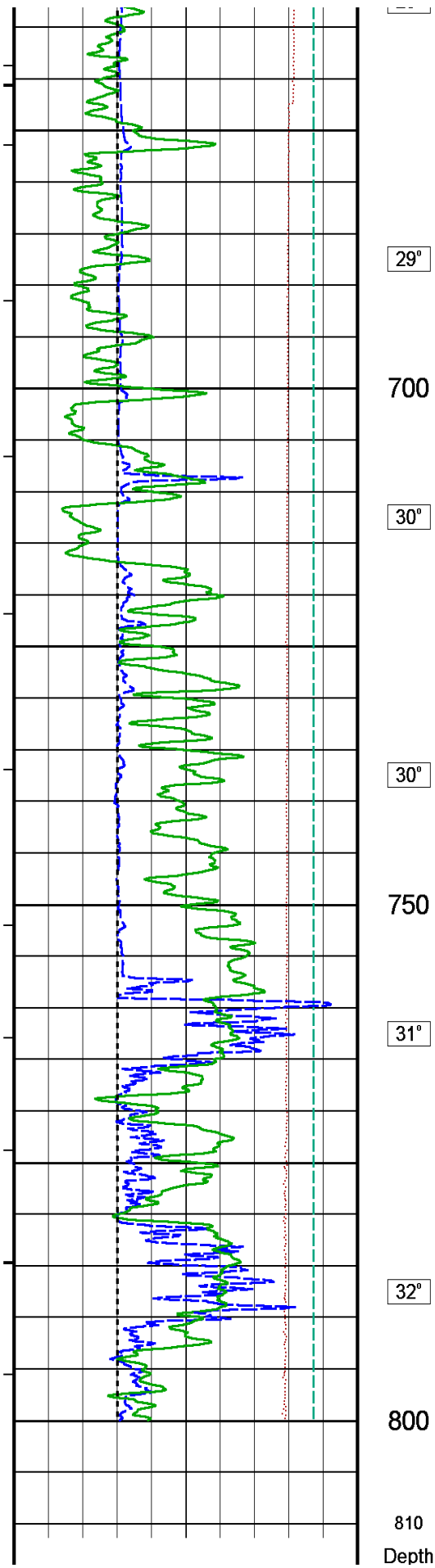
ANNULAR VOLUME USING 139.7 MM PRODUCTION CASING = 21.8 CU.M

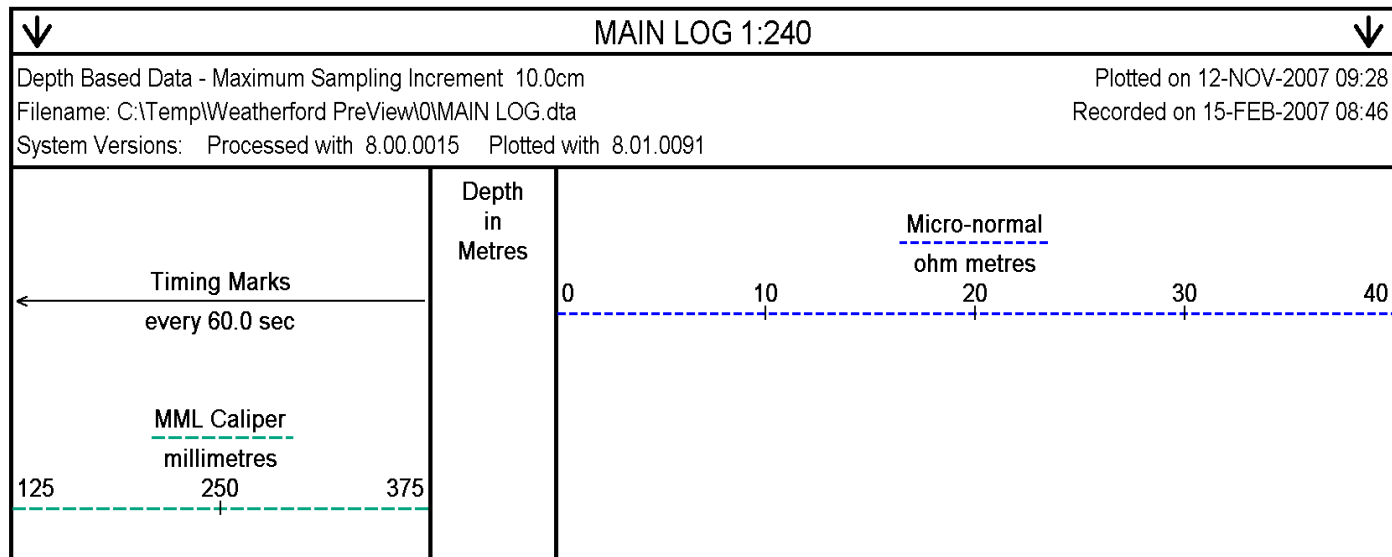
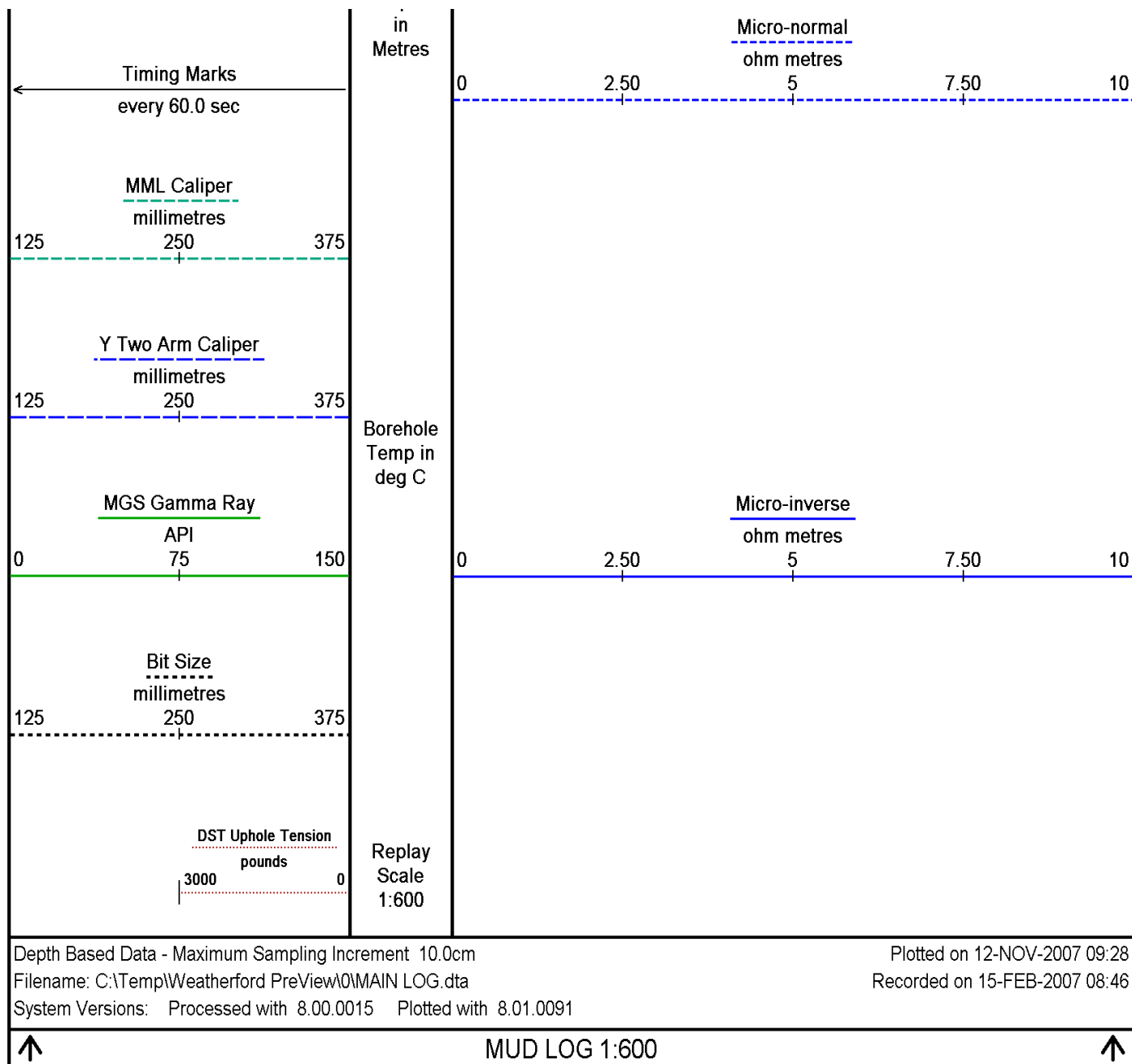
8) SONIC FREE PIPE FOUND FROM 352M - 357M

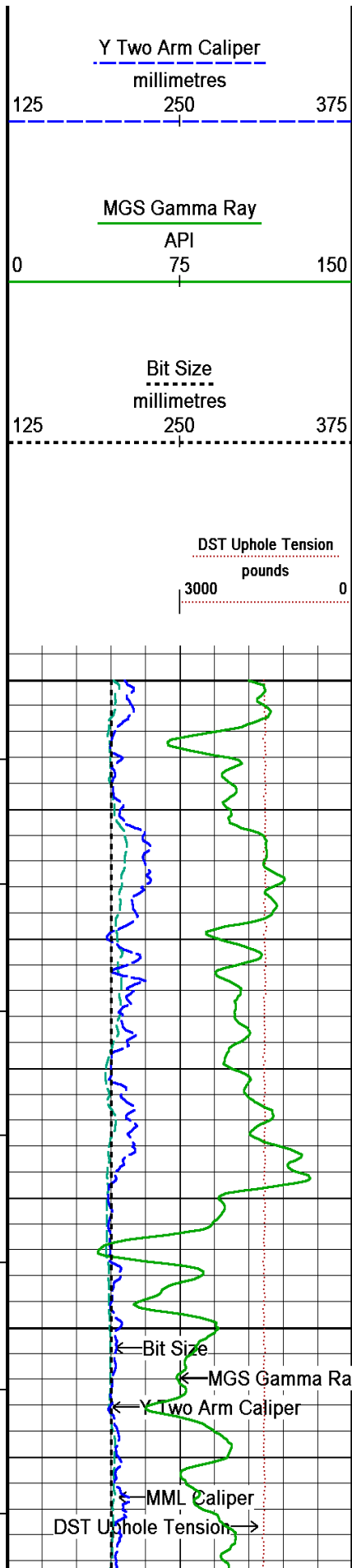
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs,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











Borehole
Temp in
deg C

Replay
Scale
1:240

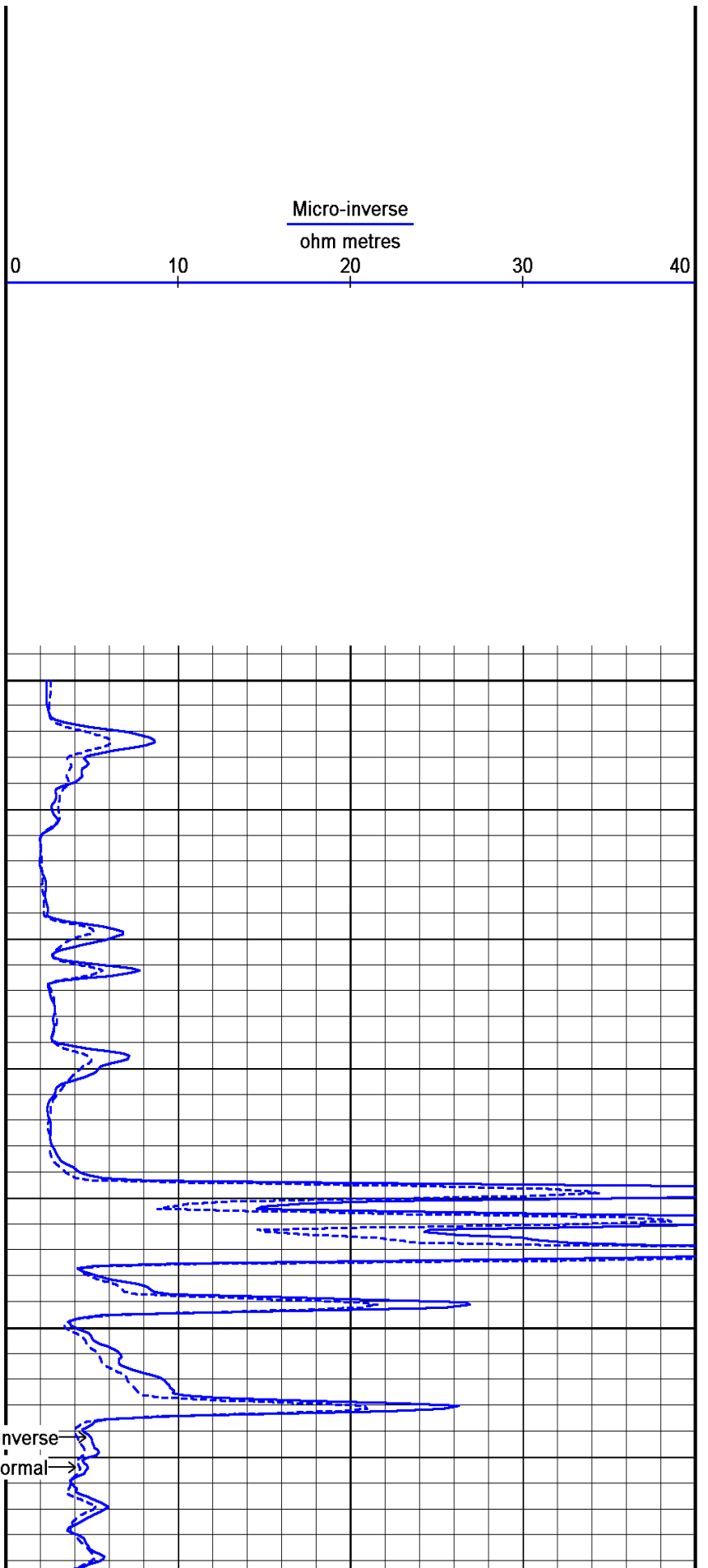
1300

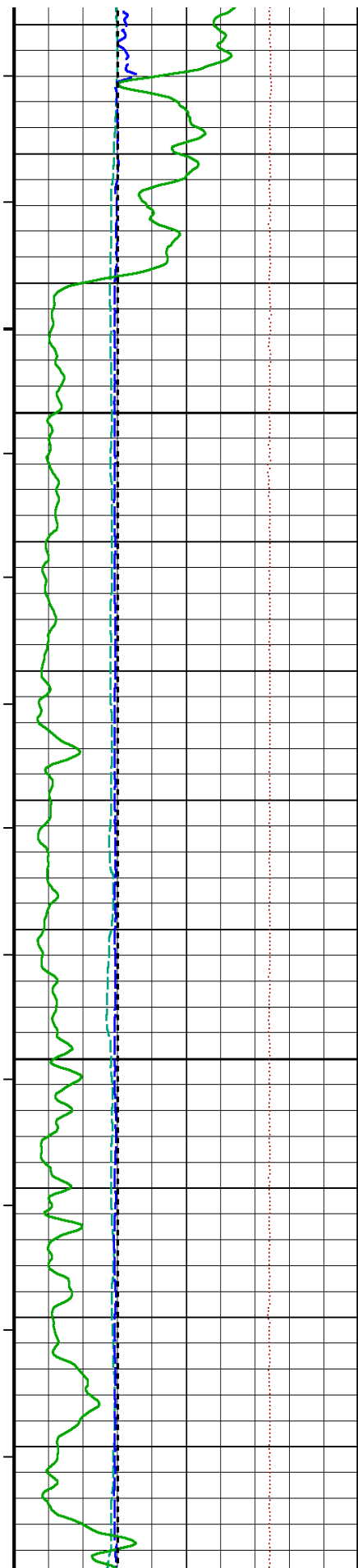
1310

44°

1320

Micro-inverse
1330
micro-normal





45°

1340

1350

1360

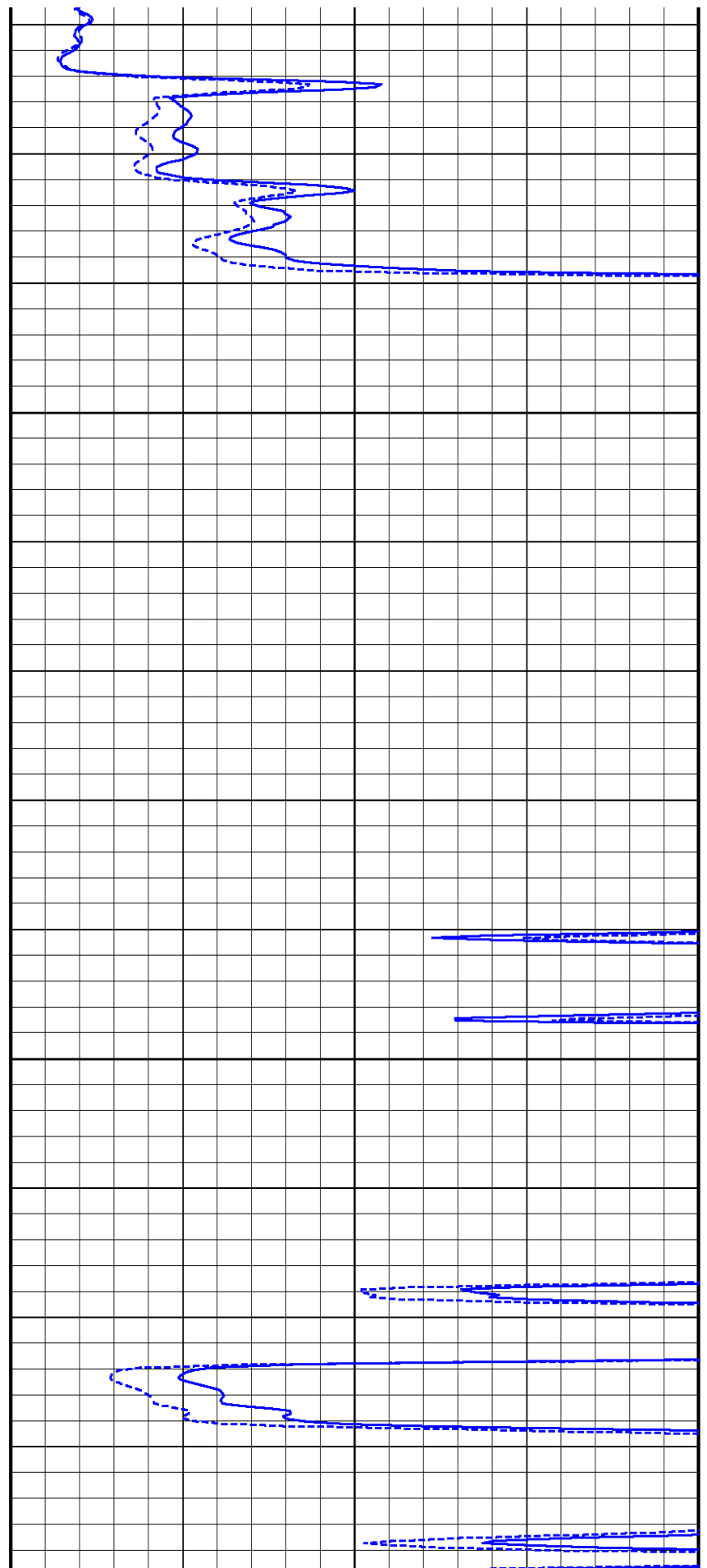
45°

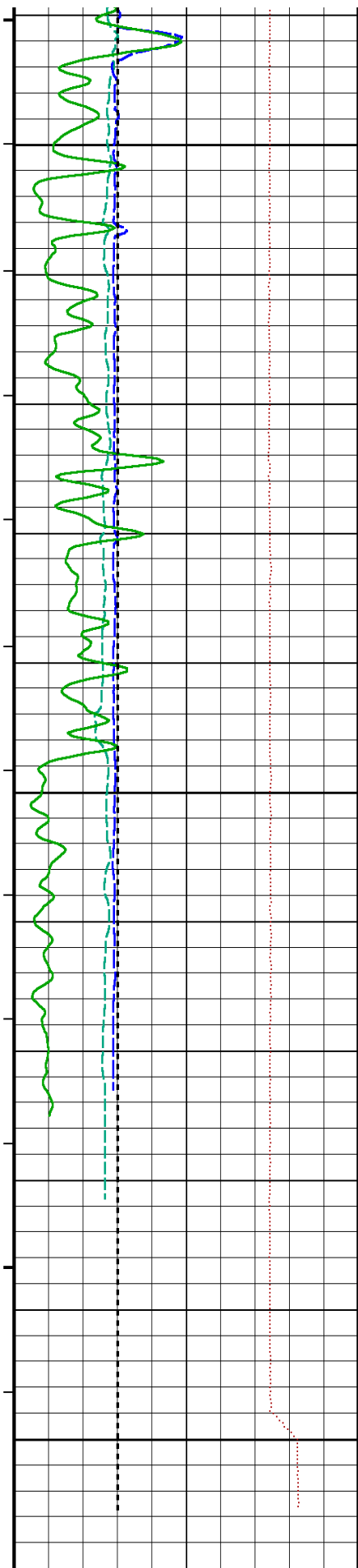
1370

1380

46°

1390





1400

1410

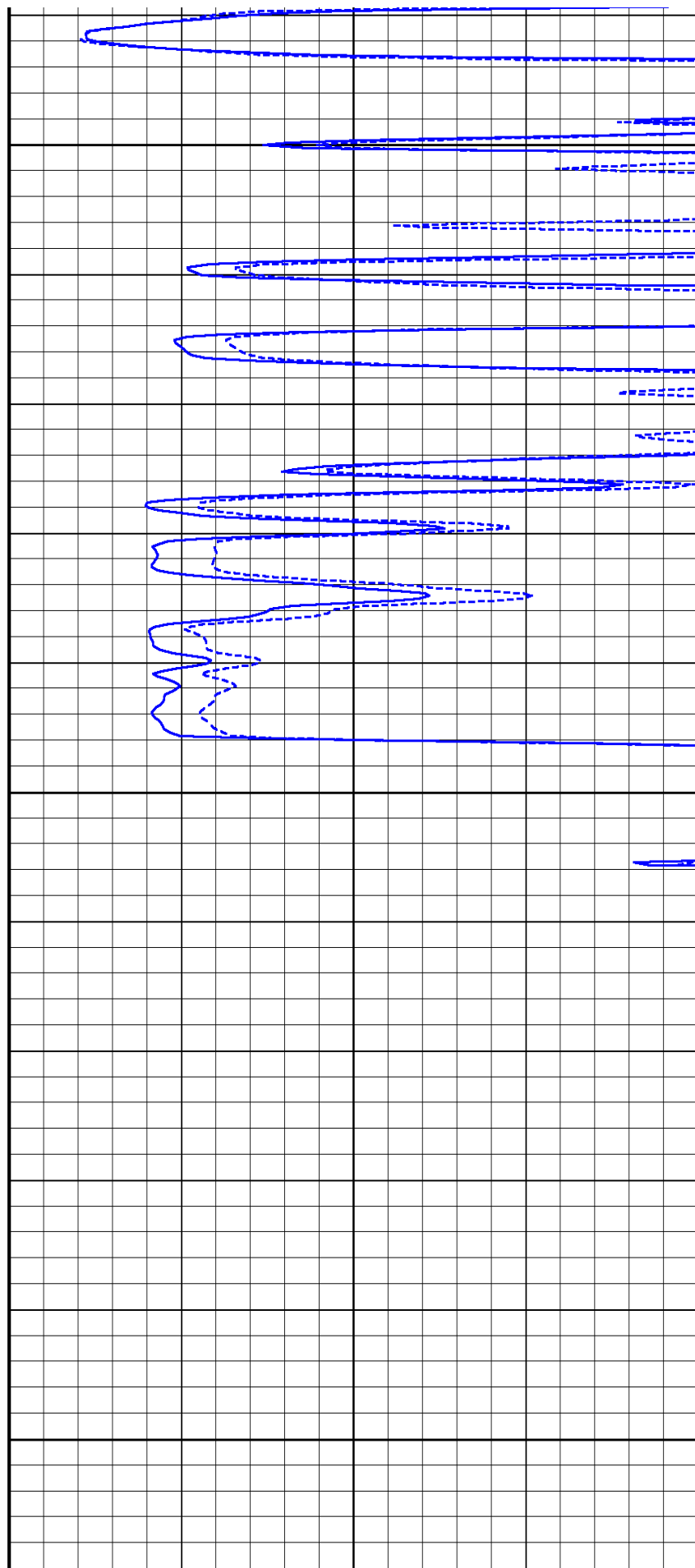
48°

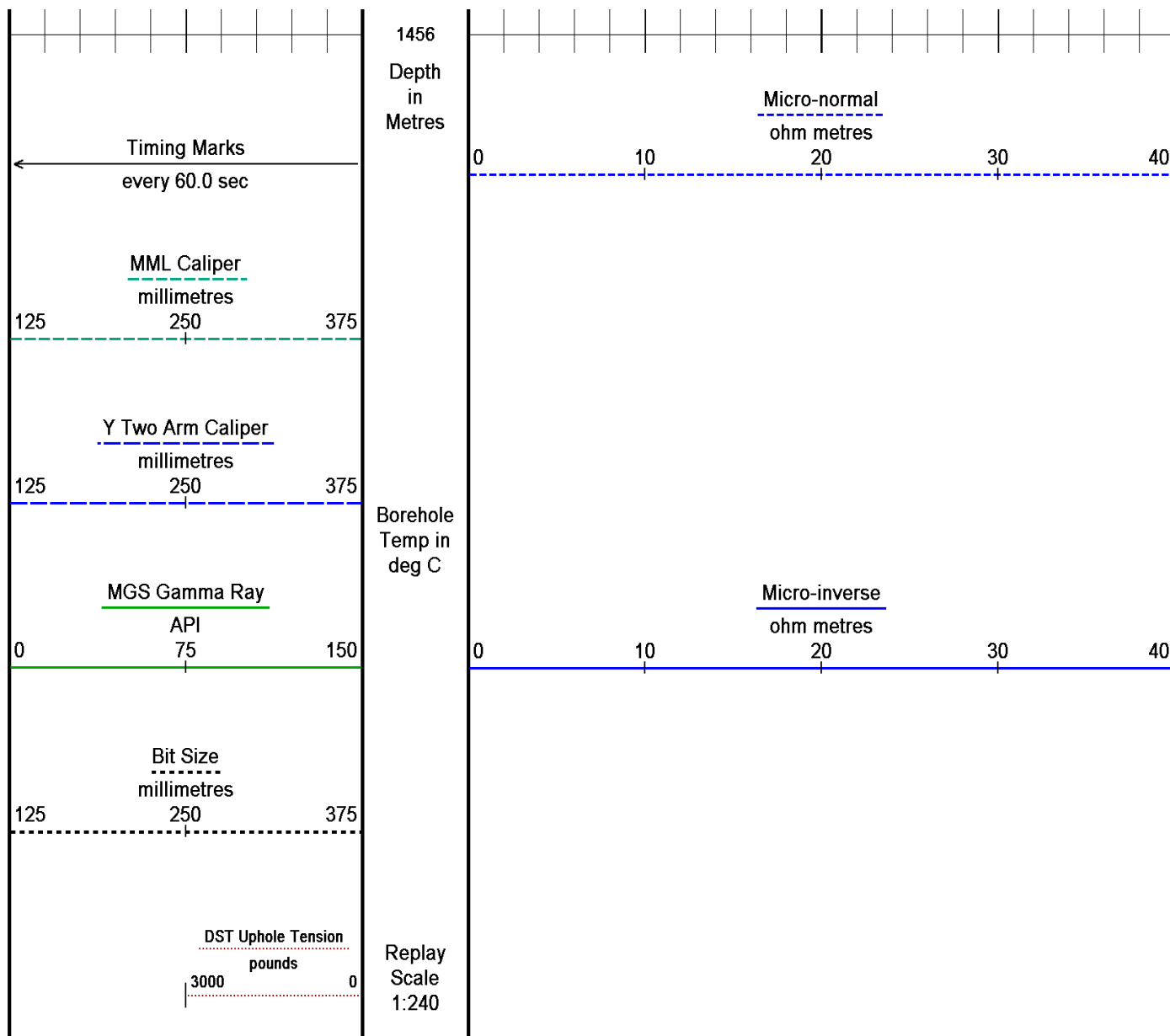
1420

1430

1440

1450





Depth Based Data - Maximum Sampling Increment 10.0cm

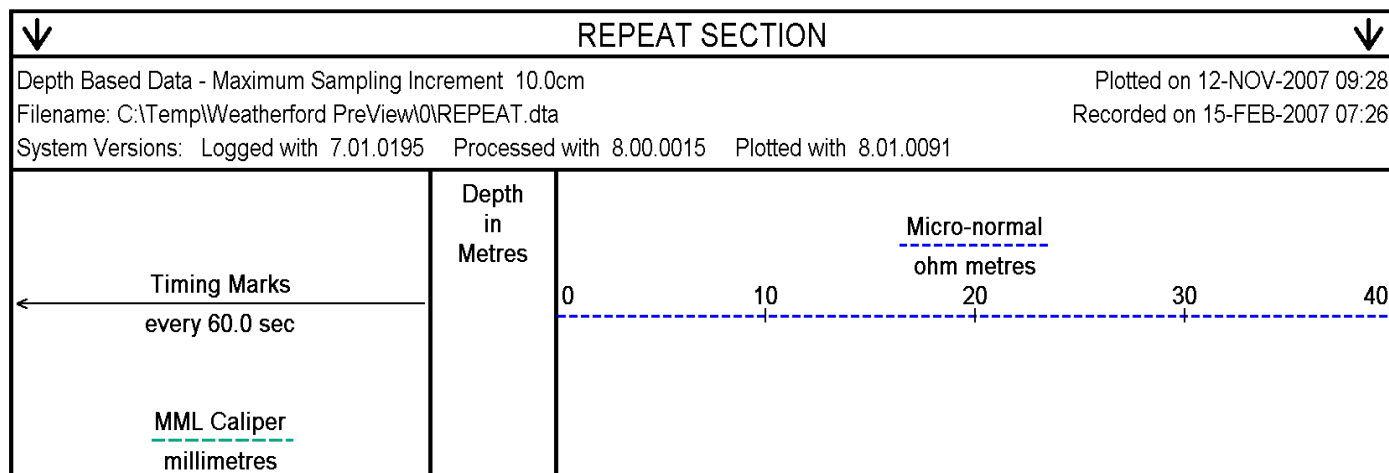
Plotted on 12-NOV-2007 09:28

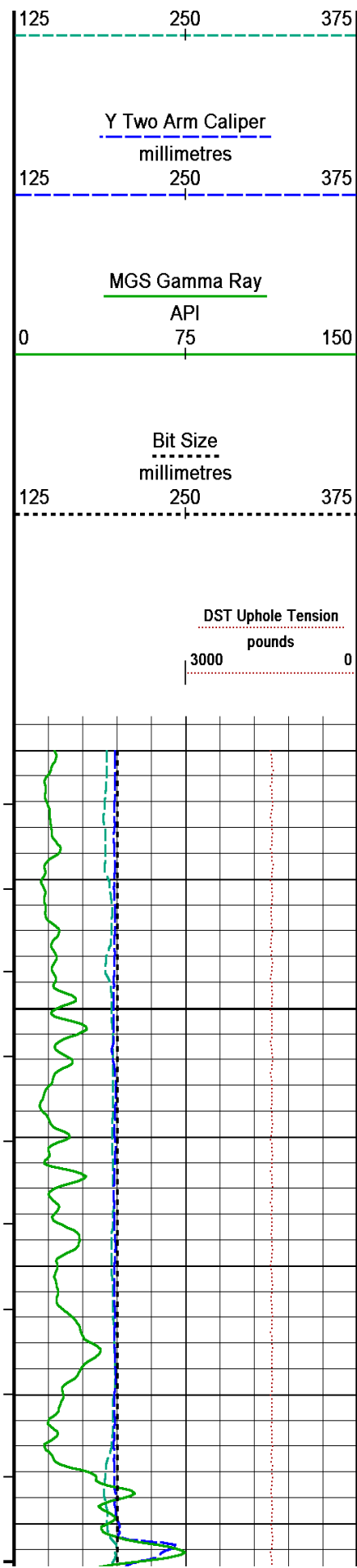
Filename: C:\Temp\Weatherford PreView\0\MAIN LOG.dta

Recorded on 15-FEB-2007 08:46

System Versions: Processed with 8.00.0015 Plotted with 8.01.0091

↑ MAIN LOG 1:240 ↑





Borehole
Temp in
deg C

Replay
Scale
1:240

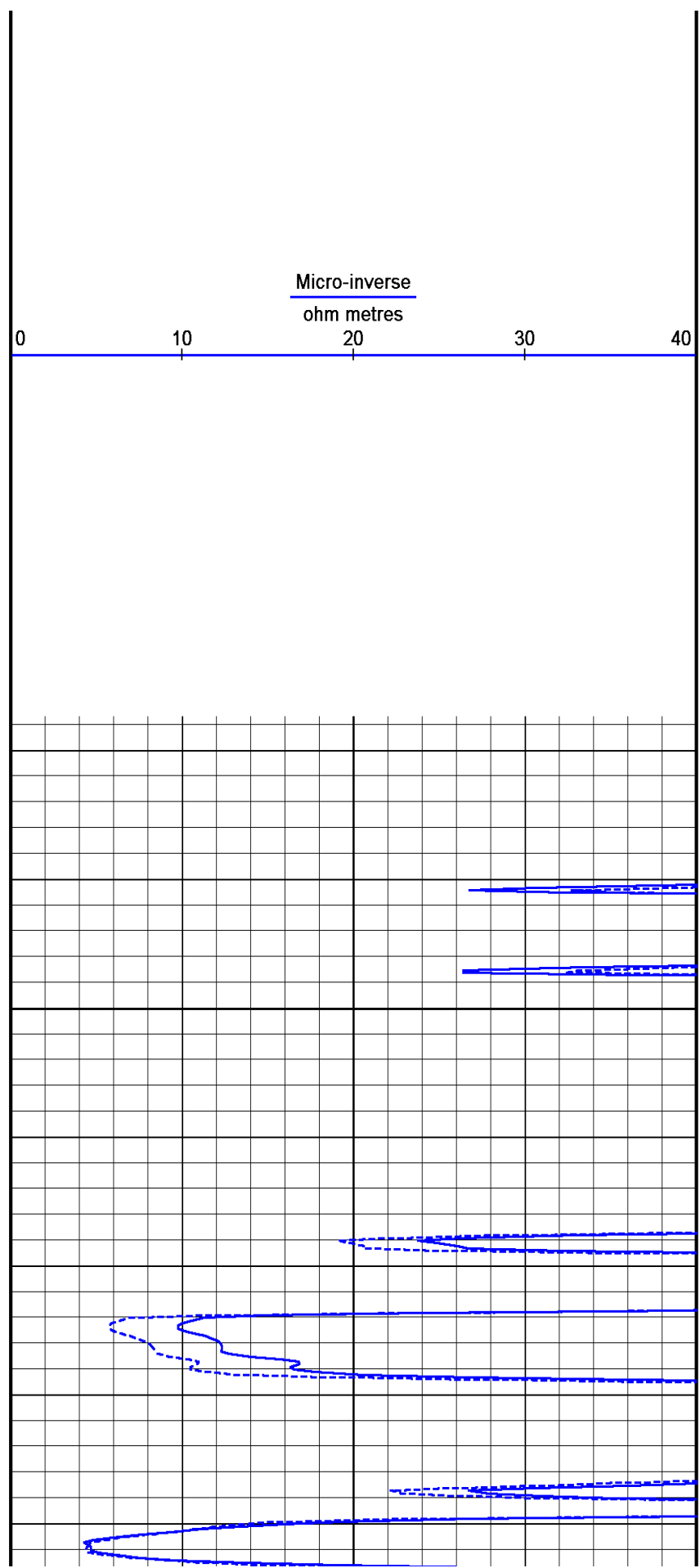
1365

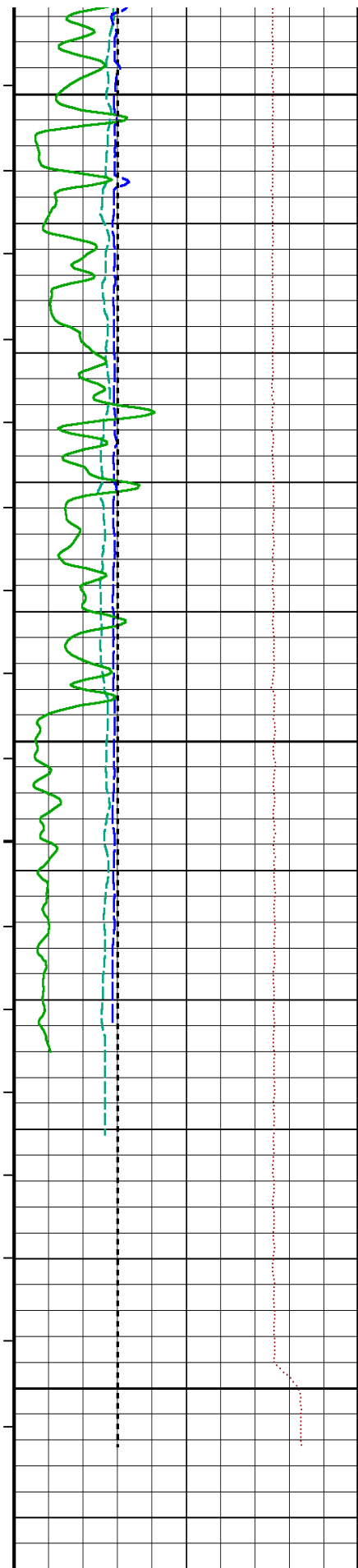
1370

1380

45°

1390





1400

1410

46°

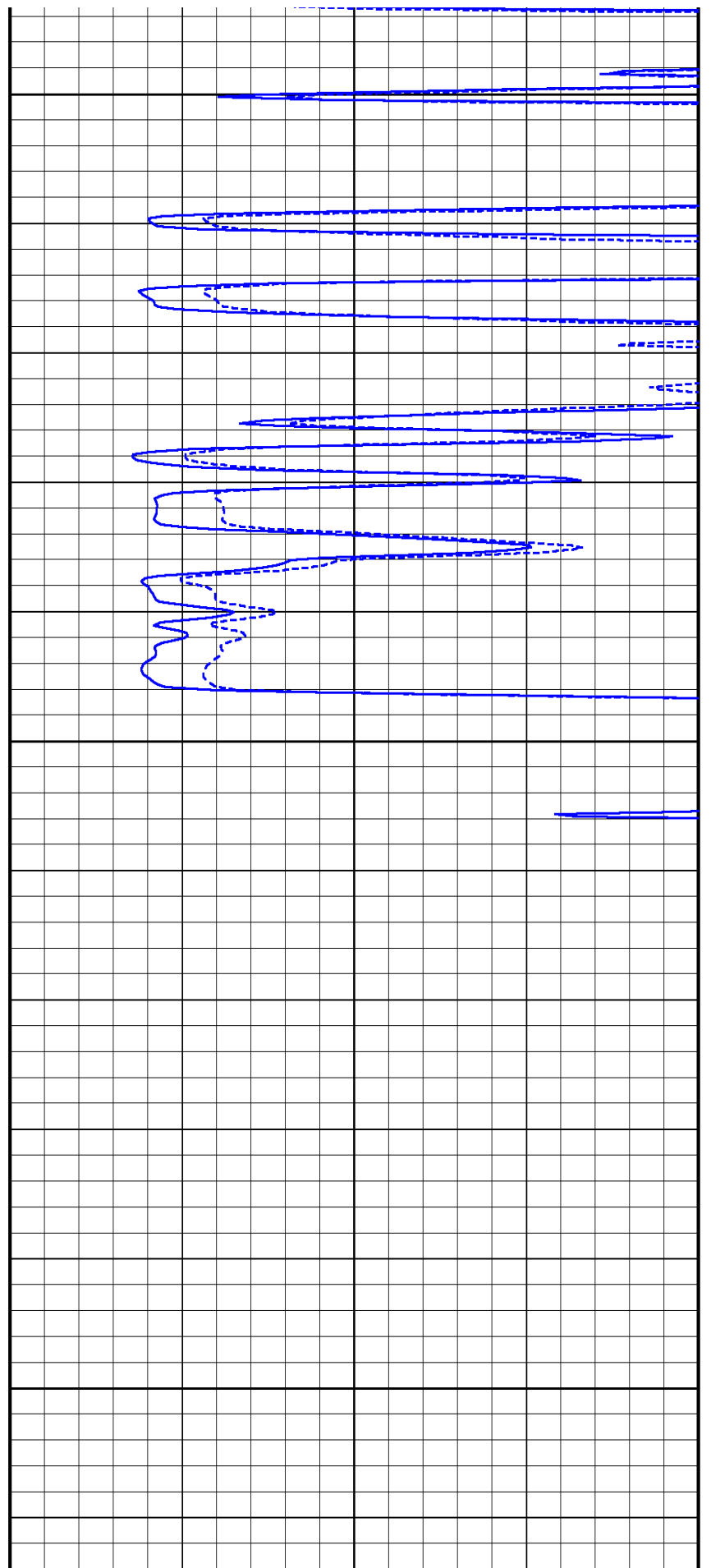
1420

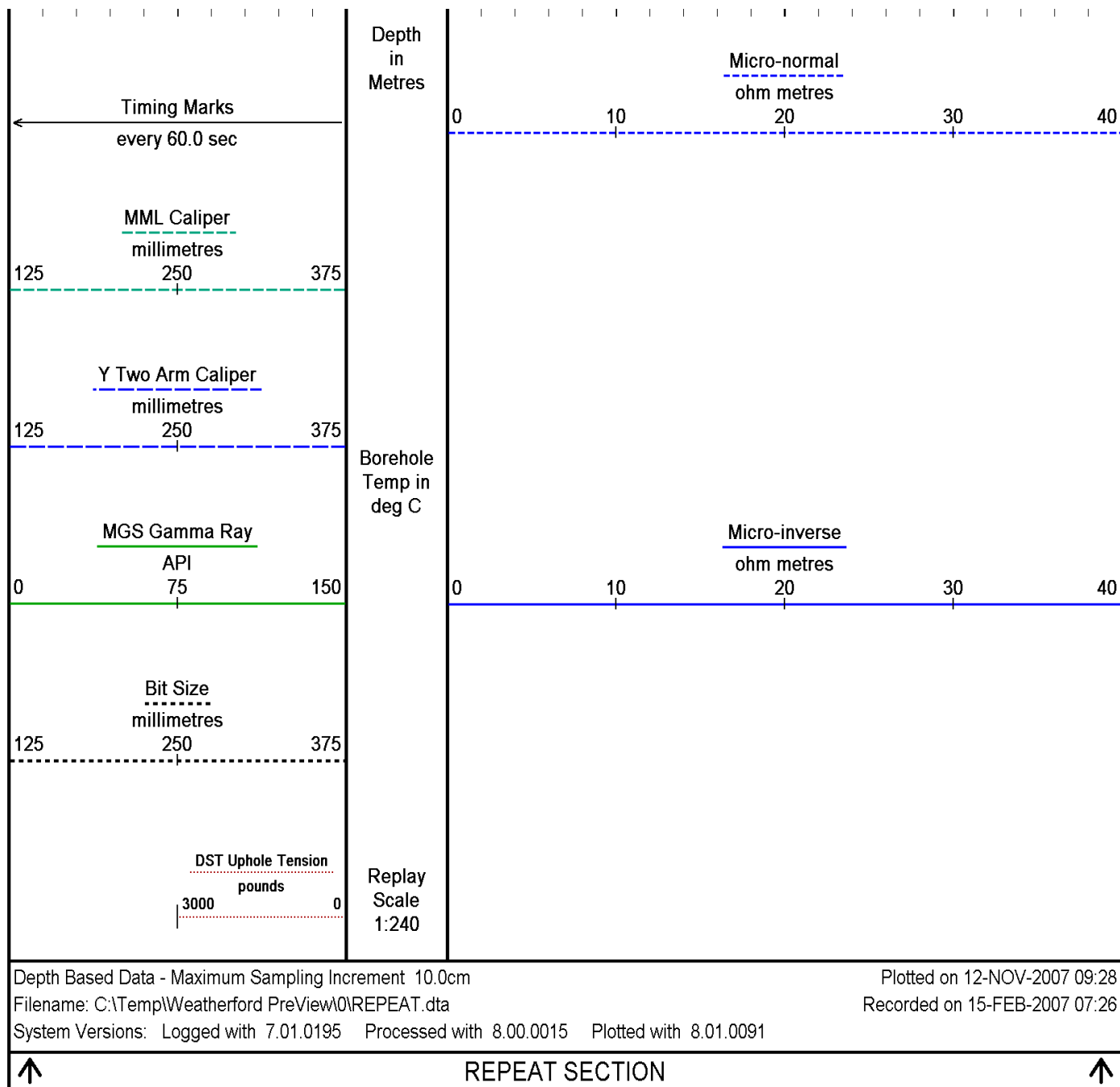
1430

1440

1450

1456





BEFORE SURVEY CALIBRATION		
C:\Temp\Weatherford PreView\0\REPEAT.dta		
General Constants All 000		Last Edited on 15-FEB-2007,06:48
General Parameters		
Mud Resistivity	1.180	ohm-metres
Mud Resistivity Temperature	25.000	degrees C
Water Level	0.000	metres
Density/Neutron Processing	Wet Hole	
Hole/Annular Volume and Differential Caliper Parameters		
HVOL Caliper 1	Density Caliper	
HVOL Caliper 2	Y Two Arm Caliper	
Annular Volume Diameter	139.700	mm
Caliper for Differential Caliper	Densitv Caliper	

Rwa Parameters		
Porosity used	Base Density Porosity	
Resistivity used	Deep Induction	
RWA Constant A	0.610	
RWA Constant M	2.150	
High Resolution Temperature Calibration MCG 159		
	Measured	Calibrated(Deg C)
Lower	10.00	10.00
Upper	50.00	50.00
High Resolution Temperature Constants MCG 159		
Last Edited on 28-NOV-2006,15:40		
Pre-filter Length 11		
Caliper Calibration MTC 006		
Base Calibration on 25-JAN-2007,18:14		
Field Calibration on 10-FEB-2007,20:21		
Base Calibration		
Reading No	Measured	Calibrator Size (mm)
1	14734	110.00
2	17539	162.00
3	20248	212.00
4	22990	262.00
5	25897	311.00
6	N/A	N/A
Field Calibration		
	Measured Caliper (mm)	Actual Caliper (mm)
	208.70	205.70
Gamma Calibration MGS 010		
	Measured	Calibrated (API)
Background	48	31
Calibrator (Gross)	1256	825
Calibrator (Net)	1208	794
Gamma Constants MGS 010		
Last Edited on 15-FEB-2007,06:48		
Gamma Calibrator Number	grcc075	
Mud Density	1060.00	kg/m3
Caliper Source for Processing	Density Caliper	
Tool Position	Centred	
Concentration of KCl	0.00	kppm
Micro Normal and Micro Inverse Calibration MML 015		
Base Calibration on 25-JAN-2007,17:08		
Field Check on 12-FEB-2007 04:00		
Base Calibration		
	Measured	Calibrated (ohm-m)
Channel	Resistor 1 Resistor 2	Resistor 1 Resistor 2
Micro Normal	9.9 48.5	5.1 25.6
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Channel	Base Check (ohm-m)	Field Check (ohm-m)
Micro Normal	79.8	0.0
Micro Inverse	52.6	0.0
Micro Normal and Micro Inverse Constants MML 015		
Last Edited on 15-FEB-2007,04:52		
Micro Normal K Factor	0.5110	
Micro Inverse K Factor	0.3380	
Standoff Offset	N/A	millimetres

DOWNHOLE EQUIPMENT

C:\Temp\Weatherford PreView\0\REPEAT.dta

Compact Gamma
MCG 159 Length: 2.65 m

Weight: 63.9 lb

20.78 m

GRGC - Gamma Ray

19.90 m

CGXT - MCG External Temperature

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Weight: 48.5 lb

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MTC 6 Length: 2.17 m

Weight: 61.7 lb

16.33 m

CLYC - Y Two Arm Caliper

Compact Short Gamma
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Weight: 24.3 lb

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ISC 159 Length: 0.70 m

Weight: 24.3 lb

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Weight: 81.6 lb

12.10 m

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12.10 m

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12.10 m

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Compact Neutron
MDN 144 Length: 1.53 m

Weight: 50.7 lb

10.64 m

NPRL - Limestone Neutron Por.

Compact Density/Caliper
MPD 36 Length: 2.92 m

Weight: 90.4 lb

8.06 m

AVOL - Annular Volume

8.06 m

HVOL - Hole Volume

8.06 m

CLDC - Density Caliper

7.85 m

DPRL - Limestone Density Por.

7.85 m

DCOR - Density Correction

7.83 m

PDPE - PE

Compact Sonic
MSS 60 Length: 3.82 m

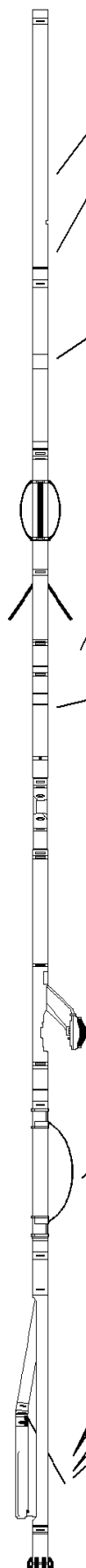
Weight: 72.8 lb

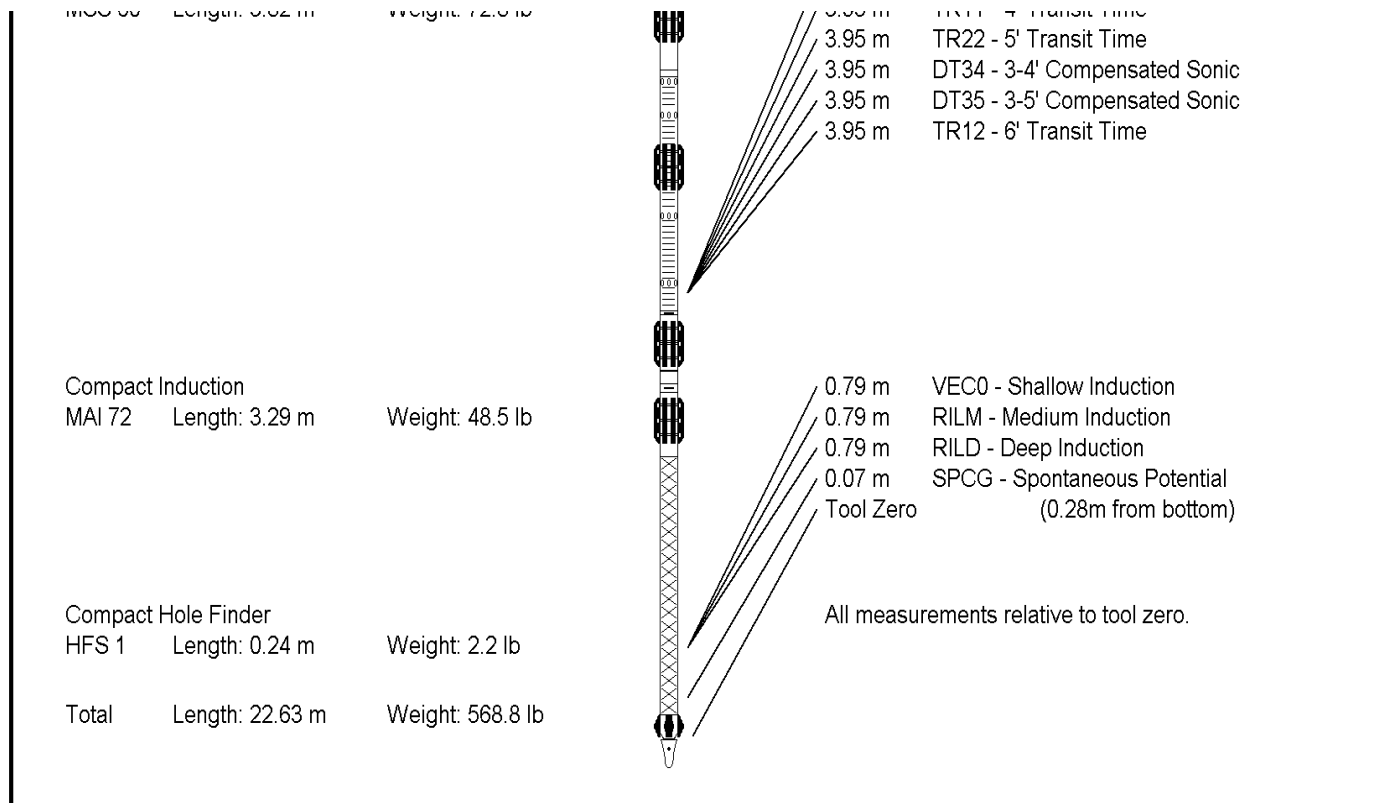
3.95 m

TR21 - 3' Transit Time


3.95 m

TR11 - 1' Transit Time





COMPANY	PARAMOUNT RESOURCES LTD.			
WELL	PARAMOUNT ET AL CAMERON J-04			
FIELD	CAMERON HILLS			
PROVINCE/COUNTY	NORTH WEST TERRITORIES			
COUNTRY/STATE	CANADA			
Elevation Kelly Bushing	769.20	metres	First Reading	metre
Elevation Drill Floor		metres	Depth Driller	1449.00 metres
Elevation Ground Level	765.20	metres	Depth Logger	1449.50 metres

**Weatherford**[®]

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