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**REPORT ON HYDROGEOLOGICAL DRILLING PROGRAM - 2011**

**RAVEN PROJECT**

**(TSABLE RIVER COALFIELD)**

**COVERING COAL EXPLORATION LICENCE**

**TENURE No. 392561**

**and**

**FEE SIMPLE COAL RIGHTS HOLDINGS**

**(Southern Comox Coal Basin)**

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## 1.0 INTRODUCTION

The purpose of this report is to document the hydrogeological field program carried out from July through October 2011 over the Raven Coal Project. The program was carried out under the terms of Exploration Permit CX-8-008 issued by the Mining and Minerals Division of the Ministry of Energy and Mines. The program was devised to gather additional ground water information and to establish monitoring wells to enhance our knowledge of the regional and local ground water regime(s). The program was in part in response to requests by the Ministry of Environment and other stakeholders for additional monitoring and testing of the impact of proposed mining on ground water resources and in particular on wells in the Fanny Bay area and other proximal communities along the inland coast of Vancouver Island. The program therefore had two primary purposes:

- to better evaluate the impact of the ground water on a potential underground coal mine, and,
- to better evaluate the impact of a potential underground coal mine on ground water resources.

A secondary purpose of the program was to establish sampling sites to collect water and rock samples from varying lithologies at various stratigraphic horizons in support of the EIA. In particular, in response to information from the Ministry of Energy and Mines (MEM), is the Dunsmuir Sandstone above Seam 3 which is viewed as a potential source of arsenic.

## 2.0 LOCATION

The Raven Project occurs in the Tsable Coalfield at the southern end of the Comox Coal Basin which lies parallel to and along the east coast of Vancouver Island. The property is directly west of Baynes Sound separating Denman Island from Vancouver Island and extends from the communities of Union Bay in the north to Fanny Bay in the south – Figure 1.

The area is located on NTS map sheets (1:50,000) 92F10W and 92F7W or within BCGS (1:20,000) map sheets 092F056 (north) and 092F046 (south). The area lies within the Nanaimo Mining Division and the Nanaimo, Nelson & Newcastle Land Districts. Coordinates at the centre of the project footprint are 49° 30' 8.0742" latitude and 124° 52' 36.4074" west longitude.

The closest city is the city of Courtenay approximately 20 km to the north on the east coast of Vancouver Island. Access to the area is via the Inland Highway which runs parallel to and in part crosses the eastern limits of the area. Local access to all parts of the property is provided by forestry roads and private logging and resource roads. Figure 2 is a general infrastructure and site layout map.

## 3.0 PROGRAM OVERVIEW

The principal goal of the program was to install and test one (1) pumping well, install one (1) grouted-in vibrating wire transducer equipped piezometer, and install 6 nested piezometer monitoring wells to evaluate hydrogeologic conditions of rock and unconsolidated overburden near the project site. Due to very little water flow being encountered in the targeted pumping well site (site 1) a second site (site 7) was chosen and the original site reverted to a testing and monitoring well. The pilot and monitoring hole (RAV-11-07a) encountered good water flow; however, the targeted pumping well (RAV-11-07c) drilled 6.7m away failed to encounter significant water flow. It was therefore decided to make RAV-11-07a the pumping well and use the larger diameter



RAV-11-07c as the monitoring well with the installation of four 2” pvc standpipe piezometers rather than grouted in vibrating wire transducer piezometers. Table 1 presents the locations of all drill holes and Table 2 is a tabulation of installed piezometers. Figure 3 is a property plan highlighting the 2011 hydrogeological drilling and Figure 4 is a generalized stratigraphic section which illustrates the geological Formation Members and lithologic units intersected by the drilling.

**Table 1: Hydrogeological Drillhole Locations (2011)**

Excavated Site	Proposal Site ID	Location UTM Zone 10 NAD 83				TD (m)	Bedrock Depth (m)
		DrillHole ID	Easting (m)	Northing (m)	Elevation (m)		
Site 1	MW#1b	<b>RAV-11-01b</b>	364949.14	5484492.87	115.13	279.50	15.00
Site 2	TRMW#2a	<b>RAV-11-02a</b>	363874.09	5486942.60	94.04	212.50	37.50
	TRMW#2b	<b>RAV-11-02b</b>	363878.02	5486940.71	93.99	395.40	36.50
Site 3	MW#3	<b>RAV-11-03</b>	368443.62	5483142.72	39.18	102.00	83.80
Site 4	MW#4	<b>RAV-11-04</b>	366319.38	5485431.99	59.51	32.00	12.80
Site 5	MW#5	<b>RAV-11-05</b>	367346.67	5483655.20	44.08	45.70	26.80
Site 6	MW#6	<b>RAV-11-06</b>	364311.26	5488815.03	82.28	59.40	39.30
Site 7	MW#7a	<b>RAV-11-07a</b>	365828.94	5485086.78	61.83	352.60	18.50
	MW#7b	<b>RAV-11-07b</b>	365820.37	5485090.01	61.89	11.00	na
	PW#7c	<b>RAV-11-07c</b>	365822.73	5485088.27	61.90	276.00	22.50

**Table 2: Tabulation of Piezometers Installed**

Drill Hole ID	Date Finished Drilling	Date Piezometer Installation Completed	Screen or TR interval				Formation/Member/Lithology Tested	Piezometer Type	
			Name	Depth From (m)	Depth To (m)	Elev Top (mamsl)			Elev Base (mamsl)
RAV-11-01b	August 8, 2011	October 4, 2011	PZ1	77.72	80.77	37.41	34.36	Trent River siltstone	2" Standpipe Sched 40
			Z1	85.34	87.78	29.79	27.35	Cowie sandstone	3/16" high pressure tubes pneumatic piezometer
			Z2	106.68	109.12	8.45	6.01	Cougar Smith siltstone	3/16" high pressure tubes pneumatic piezometer
			Z3	141.73	144.17	-26.60	-29.04	Dunsmuir 5 sandstone	3/16" high pressure tubes pneumatic piezometer
			Z4	176.78	179.22	-61.65	-64.09	Dunsmuir 4 sandstone	3/16" high pressure tubes pneumatic piezometer
			Z5	204.52	207.26	-89.39	-92.13	Dunsmuir 3 sandstone (upper)	3/16" high pressure tubes pneumatic piezometer
			PZ2	226.16	229.21	-111.03	-114.08	Dunsmuir 3 sandstone (lower)	2" Standpipe Sched 80
			Z6	246.89	249.33	-131.76	-134.20	Cumberland sandstone	3/16" high pressure tubes pneumatic piezometer
RAV-11-02a	August 2, 2011	August 10, 2011	PZ1	105.20	108.20	-11.16	-14.16	Upper Trent River siltstone	2" Standpipe Sched 40
			PZ2	201.80	204.80	-107.76	-110.76	Cowie Sandstone	2" Standpipe Sched 80
RAV-11-02b	July 28, 2011	September 27, 2011	PZ1	228.60	231.65	-134.61	-137.66	Cougar Smith siltstone	2" Standpipe Sched 80
			PZ2	372.40	375.50	-278.41	-281.51	Dunsmuir 3 Sandstone	2" Standpipe Sched 80
RAV-11-03	August 25, 2011	August 26, 2011	PZ1	79.80	82.90	-40.62	-43.72	Surficial Overburden – Clay Till	2" Standpipe Sched 40
			PZ2	98.00	101.10	-58.82	-61.92	Upper Trent River	2" Standpipe Sched 40
RAV-11-04	August 31, 2011	August 31, 2011	PZ1	8.80	11.90	50.71	47.61	Surficial Overburden – Clay Till	2" Standpipe Sched 40
			PZ2	28.00	31.10	31.51	28.41	Upper Trent River	2" Standpipe Sched 40
RAV-11-05	August 30, 2011	August 30, 2011	PZ1	22.80	25.90	21.28	18.18	Surficial Overburden – Clay Till	2" Standpipe Sched 40
			PZ2	41.70	44.80	2.38	-0.72	Upper Trent River	2" Standpipe Sched 40
RAV-11-06	September 2, 2011	September 6, 2011	PZ1	35.40	38.50	46.88	43.78	Surficial Overburden – Clay Till	2" Standpipe Sched 40
			PZ2	55.40	58.50	26.88	23.78	Upper Trent River	2" Standpipe Sched 40
RAV-11-07a	August 11, 2011	September 13, 2011	W Strike	0.00	278.00	61.83	-216.17	Cougar Smith Slt and Dunsmuir 5 SS contact	open hole (prepared for pump test)
RAV-11-07b	August 12, 2011	August 12, 2011	Piezo	7.90	10.90	53.99	50.99	Surficial Overburden - gravel	2" Standpipe
RAV-11-07c	August 24, 2011	September 26, 2011	PZ1	188.00	191.10	-126.10	-129.20	Cowie Sandstone	2" Standpipe Sched 40
			PZ2	235.00	238.10	-173.10	-176.20	Cougar Smith Siltstone	2" Standpipe Sched 80
			PZ3	260.90	264.00	-199.00	-202.10	Cougar Smith Siltstone & Dunsmuir 5 Sandstone	2" Standpipe Sched 80
			PZ4	272.70	275.80	-210.80	-213.90	Dunsmuir 5 Sandstone	2" Standpipe Sched 80

Samples of rock cuttings were collected at each site in 1.5m increments and saved in 4" x 6" cloth bags. Representative samples were washed, described and saved in 10ml sample vials for future reference. Samples are stored off site in a secure warehouse in Courtenay.

Additional rock chip samples were collected from the screened intervals and/or rock types represented by the screened intervals of drillholes RAV-11-01b, RAV-11-02a, RAV-11-02b, RAV-11-07a and RAV-11-07c for ARD testing and chemistry analyses. Table 3 attached presents the screened zones and the intervals sampled.

**Table 3: Summary of ABA and Geochemical Rock Samples Collected**

Drillhole ID	Groundwater Sample			Rock Sample Interval		Stratigraphy and Lithology
	Name	Depth From (m)	Depth To (m)	Depth From (m)	Depth To (m)	
RAV11-01b	Zone 1	85.34	87.78	85	95	Cowie Sandstone
	Zone 2	106.68	109.12	105	115	Cougar Smith Siltstone
	Zone 3	141.73	144.17	135	145	Dunsmuir 5 Sandstone
	Zone 4	176.78	179.22	170	180	Dunsmuir 4 Sandstone
	PZ 2	226.16	229.21	229	233	Dunsmuir 3 Sandstone
	Zone 6	246.89	249.33	245	255	Cumberland Sandstone
RAV11-02a	PZ1	105.20	108.20	103.7	112.8	Trent River Siltstone
	PZ2	201.80	204.80	198.2	205.8	Cowie Sandstone
RAV11-02b	PZ1	228.60	231.65	224.1	233.2	Cougar Smith Siltstone
	PZ2	372.40	375.50	365.9	378	Cumberland Sandstone
RAV11-07a		260.00	261.00	256.1	265.2	Cougar Smith & Dunsmuir
RAV11-07c	PZ1	188.00	191.10	184.5	193.6	Cowie Sandstone
	PZ2	235.00	238.10			Cougar Smith Siltstone
	PZ3	260.90	264.00	256.1	266.8	Dunsmuir 5 Sandstone
	PZ4	272.70	275.80	268.3	275.9	Dunsmuir 5 Sandstone

Reporting of hydrogeological assessment of testing and analyses will be done separately by Itasca Denver, Inc. and reporting of assessment of chemical analyses and testing for ARD will be done by AMEC Inc. Hydrogeological field work was carried out under the supervision of Rob McLean of Artifex Engineering Hydrology Inc. of Victoria, B.C.

#### 4.0 DETAILS OF HYDROGEOLOGICAL DRILLING PROGRAM

##### 4.1 Introduction

All drilling was done by Drillwell Enterprises Ltd. of Duncan B.C. using Foremost 12DR rigs equipped to drill with air and using a downhole hammer. The air was supplied using a 950 CFM @ 350 psi compressor. All drill holes were nominally 6" except RAV-11-07c which was nominally 12". An extra compressor 900 CFM @350psi was brought in to drill the 12" hole essentially doubling up on the air supply. All holes were cased through unconsolidated overburden into solid bedrock. In drillholes in which piezometers were installed in unconsolidated overburden the casing was pulled back 1 to 2m above the top of the sandpack. All drillholes are being used for ground water monitoring and casing was left as a 1 to 2m stickup. All casing was capped by secure locking caps to protect piezometer tubes and help to prevent damage due to vandalism.

Only drillholes targeted to intercept coal bearing stratigraphy were geophysically logged and only the deepest drillhole on a single site was logged. Those holes geophysically logged were RAV-11-01b, RAV-11-02b and RAV-11-07a. Drillhole logging services were provided by Electrolog Services Inc. Table 3 below summarizes logs run.

**Table 4: Summary of Geophysical Logs Run (2011 Drillholes)**

Drillhole ID	Logs Run					
	Gamma	Caliper	Density	Resistance	SP	Deviation
RAV-11-01b	X	X	X	X	X	X
RAV-11-02b <sup>1</sup>	X	X	X	X	X	X
RAV-11-07a	X	X	X	X	X	X
<p><b>Note</b> <sup>1</sup> Open Hole to 258.5m only; Gamma only thru pipe from 258.5m to TD of 395m</p>						

- 4.2 Drillhole RAV-11-01b was drilled at site 1 and was to have been the primary monitoring well for the pumping test. The hole was drilled to 14m below Seam 1 and intersected a normal sequence of stratigraphy. Table 5 following section 3.11 gives a summary of stratigraphy units intersected. Unfortunately this hole didn't produce enough water to sustain a pump test and a decision was made to abandon the site as a potential pump test and select an alternate site. A decision was made to use this hole to carry out packer tests to obtain permeability data and selected water samples. The packer tests were completed Wednesday August 24, using the Drillwell hiab so as not to tie up the drill. The packer tests indicated that all formations/members tested in this hole were artesian and it was decided to install a series of pneumatic piezometers (high pressure tubes through which purging of the water and sampling of the water could be achieved) in 5 of the formations/members. This was done during the week of September 26. In addition to the pneumatic piezometers two 2" standpipe piezometers were installed in the Dunsmuir 3 sandstone and in the contact area between the Cowie Sandstone and the overlying (undivided) Trent River siltstone. The hole was completed with grout to surface. Table 2 presents a summary of piezometer installations. The drillhole was geophysically logged by Electrolog Services Inc. Logs run included Directional Survey, Gamma Ray, Density, Caliper, Resistance and SP (Spontaneous Potential). A description and graphic representation of the drillhole is provided as Figure A-1 in Appendix A and the geophysical logs are attached in Appendix B-1.
- 4.3 Drillhole RAV-11-02a was drilled at site 2 and was drilled to install two piezometers in the Cowie and the undivided upper Trent River siltstone respectively. This hole made use of the casing drilled and installed in 2009 (NC-2009). The piezometers were installed successfully by Drillwell using a hiab truck so as not use rig time. A description and graphic representation of the drillhole is provided as Figure A-2a in Appendix A.
- 4.4 Drillhole RAV-11-02b was drilled at site 2 approximately 5m from RAV-11-02a to install two 2" standpipe piezometers in the Dunsmuir 3 sandstone and the Cougar Smith siltstone/sandstone members respectively. The drilling encountered difficult drilling which resulted in poor hole wall stability below 260m. As a consequence the lower part of the hole was logged only with a gamma log through the pipe so good contact definition is unavailable and lithology and stratigraphic definitions is provided mainly from sample description. The hole was drilled through a coal seam which is believed to be Seam 3 and stopped 20m below to allow for slough and a cellar for logging. The deep standpipe piezometer in the Dunsmuir 3 sandstone was installed Friday September 16th using the drill and core pipe. Because of poor hole stability during inputting the standpipe, the process took 3 days. Back filling of the hole between the two planned piezometer installations commenced Friday September 23. The upper piezometer was installed during the week of September 26 and the hole was grouted to surface and secured. The



- drillhole was geophysically logged by Electrolog Services Inc. Logs run included Directional Survey, Gamma Ray, Density, Caliper, Resistance and SP (Spontaneous Potential). A description and graphic representation of the drillhole is provided as Figure A-2b in Appendix A and the geophysical logs are attached in Appendix B-2.
- 4.5 Drillhole RAV-11-03 was drilled at site 3 in the Wilfred Creek water shed. The hole was drilled to a depth of 102m and two piezometers were installed; one in the bedrock and one in the unconsolidated overburden. A description and graphic representation of the drillhole is provided as Figure A-3 in Appendix A
- 4.6 Drillhole RAV-11-04 was drilled at site 4 to a depth of 32m and two 2” piezometers were installed; one in the bedrock and one in the unconsolidated overburden. A description and graphic representation of the drillhole is provided as Figure A-4 in Appendix A.
- 4.7 Drillhole RAV-11-05 was drilled at site 5 to a depth of 45.7m and two 2” piezometers were installed; one in the bedrock and one in the unconsolidated overburden. A description and graphic representation of the drillhole is provided as Figure A-5 in Appendix A.
- 4.8 Drillhole RAV-11-06 was drilled at site 6 to a depth of 59.4m and two 2” piezometers were installed; one in the bedrock and one in the unconsolidated overburden. A description and graphic representation of the drillhole is provided as Figure A-6 in Appendix A
- 4.9 Drillhole RAV-11-07a was drilled at site 7, the replacement site for the pump test. The hole was drilled to a depth of 352.6m and terminated approximately 25m below Seam 4. Salt water with a flow of approximately 60 l/min was intersected in this hole at 260m at the base of the Trent River Fm (Cougar Smith Mbr). It was planned to install vibrating wire transducers (VWT) (piezometers) in this hole as the primary monitoring well for the pump test; however, because water was not intersected in the hole designated as the pumping well - RAV-11-07c - the VWT was not installed. RAV-11-07a was instead designated as the pumping well for the pump test. The hole was back filled to a depth of 280m by alternating pea gravel and bentonite layers. A pump was installed at an approximate depth of 256m and a step test was carried out to determine pumping rate and duration. The pump test using this modified arrangement will have an expected duration of from 3 to 7 days and is to be carried out when water levels stabilize. The drillhole was geophysically logged by Electrolog Services Inc. Logs run included Directional Survey, Gamma Ray, Density, Caliper, Resistance and SP (Spontaneous Potential). A description and graphic representation of the drillhole is provided as Figure A-7a in Appendix A and the geophysical logs are attached in Appendix B-3.
- 4.10 Drillhole RAV-11-07b was drilled at site 7 approximately 5m from RAV-11-07a and was drilled to monitor water level and quality in the surficial overburden. A water zone in gravels was intersected at 7.9 to 10.9m and a single 2” standpipe piezometer was installed. A description and graphic representation of the drillhole is provided as Figure A-7b in Appendix A.
- 4.11 Drillhole RAV-11-07c the designated 12” pumping test hole was terminated at a depth of 276m on Wednesday August 24 without intersecting the water zone intersected in drill hole RAV-11-07a drilled approximately 6.7m away. After doing a few packer tests on adjacent drill hole RAV-11-07a, it was decided to make RAV-11-07a the pumping test well and make RAV-11-07c the primary monitoring well. It was decided to install four 2” piezometers in this hole as monitoring piezometers. The deeper two piezometers were installed from Wednesday to Friday September 14 to 16 and the upper two piezometers



were installed Monday and Tuesday September 19 and 20. Intervening layers of gravel and bentonite pellets were installed between piezometer tubes and the hole was back filled with grout above the upper piezometer to the surface in two lifts and was completed Friday September 23. A description and graphic representation of the drillhole is provided as Figure A-7c in Appendix A.

**Table 5: Stratigraphic Intervals Intersected by 2011 Drill Holes**

Drill Hole	Surficial Depth (m)	Top Cowie Mbr (m)	Top Cougar Smith Mbr (m)	Top Dunsmuir 5 (m)	Seam 5 (m)	Top Dunsmuir 4 (m)	Seam 4 (m)	Top Dunsmuir 3 (m)	Seam 3 U (m)	Seam 3 Lower (m)	Top Cumberland (m)	Seam 1 (m)
RAV-11-01b	15	80	100.25	121.7	147.4 - 147.7	147.7	195.1 - 196	196	235.5 - 235.75	236.85 - 237.75	237.75	263.5 - 265.3
RAV-11-02a	37.5	196.5	203									
RAV-11-02b	36.5	196.5	203	232	278 - 278.5	278.5	296.25 - 297.25	297.25	263.15 - 265.25		265.25	
RAV-11-03	83.8											
RAV-11-04	12.8											
RAV-11-05	26.8											
RAV-11-06	39.3											
RAV-11-07a	18.5	182.25	210.25	260.5	285.2 - 285.75	285.75	326 - 327	327				
RAV-11-07b	na											
RAV-11-07c	22.5	184	212	263								

## 5.0 ENVIRONMENTAL PROTECTION AND RECLAMATION PROGRAM

Drillsites were constructed along existing forestry roads or pre-existing forestry and/or resource roads. Pre-existing roads required rehabilitation to allow vehicular traffic; rehabilitation consisted of brushing, infilling swales and culvert emplacement where necessary. Access roads requiring rehabilitation varied from 3.5 to 6.5m wide and averaged 5.5m including set backs for brush, soil and ditching requirements. A policy of avoidance was practiced.

Drillsites were constructed to meet the smallest foot print for drill set up and operation as was safely possible. Set ups varied from a widening of access roads requiring push backs to the construction of larger sites to accommodate equipment and extra sumps where necessary. Normal practice was to construct drillsites with maximum dimensions of approximately 30m x 15m (including area for sumps). Sumps for drilling fluid return and drill cuttings were dug along one side. The pumping well required an additional sump which was excavated approximately 400m north-northwest from the pumping wellsite. Ground water was conveyed through a 3" pipe to the discharge point. Drillsites were cleared of all trees, shrubs, plant growth, deadfall and any other combustible material down to mineral soil. Table 6 gives a summary of the disturbance at each drillsite.

**Table 6: Table of Disturbance due to Exploration Drilling in 2011**

Drill Hole	Access Surface Rights	Freehold / Crown Licence Blocks/Lots	Type of Disturbance	Length (m)	width (m)	Area (ha)
RAV-11-01b	Crown 'Titled Lands'	Lot 88	Drillsite	18	7.5	0.014
RAV-11-01b	Crown 'Titled Lands'	Lot 88	Sump	43	4	0.017
RAV-11-02a	Island Timberlands	DL 39G of Sec 2A	Drillsite & Sump	30.5	6.5	0.020
RAV-11-02b	Island Timberlands					
RAV-11-03	Island Timberlands	DL 88	Drillsite & Sump	27	15	0.041
RAV-11-03	Island Timberlands	DL 88	trail rehabilitate	108	3.5	0.038
RAV-11-04	Island Timberlands	DL 38G of Sec 2A	Drillsite & Sump	21.5	13	0.028
RAV-11-05	Island Timberlands	DL 88	Drillsite & Sump	27.5	17.5	0.048
RAV-11-05	Island Timberlands	DL 88	trail rehabilitate	581	5.5	0.320
RAV-11-06	Island Timberlands	Lot 33G	Drillsite & Sump	18	7	0.013
RAV-11-06	Island Timberlands	Lot 33G	trail rehabilitate	1138	5.5	0.626
RAV-11-07a	Crown 'Titled Lands'	Lot 88	Drillsite & Sump	24	23	0.055
RAV-11-07b	Crown 'Titled Lands'	Lot 88				
RAV-11-07c	Crown 'Titled Lands'	Lot 88				
RAV-11-07c	Island Timberlands	Lot 38 of Sec 2a	Sump	227	7.5	0.170
RAV-11-07c	Island Timberlands	Lot 38 of Sec 2a	trail rehabilitate	222	5.5	0.122
				7		
				23.79	12.79	0.03
						0.22
				270.00	5.75	0.19
					5.00	0.28
				2,049.0		1.11
						1.51

Rotary drilling techniques using air as a drilling medium were used to drill the holes generating rock cuttings. The cuttings and any fluids produced were disposed of directly to the sumps at drillsites. Table 7 gives an approximation of the volume of cuttings produced and disposed of in sumps.

**Table 7: Cuttings Volumes Disposed of in Sumps**

DrillHole ID	TD (m)	Bedrock Depth (m)	hole size in inches	hole diam in metres	volume of cuttings m <sup>3</sup>
RAV-11-01b	279.5	15	6	0.152	5.098
RAV-11-02a	212.5	37.5	6	0.152	3.876
RAV-11-02b	395.4	36.5	6	0.152	7.213
RAV-11-03	102	83.8	6	0.152	1.861
RAV-11-04	32	12.8	6	0.152	0.584
RAV-11-05	45.7	26.8	6	0.152	0.834
RAV-11-06	59.4	39.3	6	0.152	1.084
RAV-11-07a	352.6	18.5	6	0.152	6.432
RAV-11-07b	11	na	6	0.152	0.201
RAV-11-07c	276	22.5	12	0.305	20.139
<b>Total</b>					<b>47.320</b>

All drillholes were completed as piezometers for ground water monitoring. Casing was left in the ground to protect the piezometers and are clearly marked.

Sumps were filled in with stockpiled excavated material and re-contoured.

Access roads to all sites are being maintained to provide access to monitoring wells.

## 6.0 PRE-EXISTING MONITORING WELLS NEAR COWIE CREEK

During the course of the 2011 drilling, information was received about the 5 monitoring wells developed by Hillsborough in 2001. All are situated near Cowie Creek in the vicinity of the test mine proposed by Hillsborough prior to their relinquishing the property. The holes are located on the attached map Figure 5. The holes were re-numbered in 2009 and are matched to the original ID in location table - Table 8 - below.

**Table 8: Location and Identification of Hillsborough Monitoring Wells**

Hillsborough ID <sup>1</sup>	Drill Hole ID	Location UTM Zone 10 NAD 83			TD (m) <sup>2</sup>	Depth Reached (m) <sup>3</sup>
		Easting (m)	Northing (m)	Elevation (m)		
MW01-A	TS-01-01	364,717.91	5,485,491.97	78.38	26.2	26.25
MW01-B	TS-01-02	364,734.08	5,485,279.01	76.58	30.5	29.29
MW01-D	TS-01-03	364,723.97	5,485,335.76	79.80	36.6	4.61 <sup>4</sup>
MW01-C <sup>5</sup>	TS-01-04	364,850.39	5,485,299.53	75.78	25.0	24.02
MW01-C(2) <sup>5</sup>	TS-01-05	364,850.44	5,485,296.79	75.82	7.9	8.05
Note <sup>1</sup>	No location information found for Hillsborough holes; holes id'd by comparing depths reached with original logs.					
Note <sup>2</sup>	TD taken from Hillsborough Logs					
Note <sup>3</sup>	Depth reached with water probe; as measured by Dan Emerson (AMEC) July, 2009.					
Note <sup>4</sup>	The 2" Piezometer is missing and the 1" Piezometer is damaged and not usable.					
Note <sup>5</sup>	The 1" & 2" piezometers were damaged due to bridging and pulling up of casing. A second well was drilled to replace the 2" piezometer and the 1" was unplugged and determined to be usable. It also appears the 2" piezometer is also usable.					

Monitored zones and depths and elevations of piezometers established during the 2001 monitoring wells program by Hillsborough are presented in Table 9 below.

**Table 9: Tabulation of Piezometers Installed - Hillsborough Holes**

Hillsborough ID's	Drill Hole ID	Screen or TR interval				Formation/Member/Lithology Tested	Piezometer Type
		Depth From (m)	Depth To (m)	Elev Top (mamsl)	Elev Base (mamsl)		
MW01-A	TS-01-01	8.00	11.05	70.38	67.33	Surficial Overburden – sandy silt & gravel	2" PVC
		19.39	25.48	58.99	52.90	Upper Trent River - shale	1" PVC
MW01-B	TS-01-02	2.36	5.41	74.21	71.17	Surficial Overburden – silty sand & gravel	2" PVC
		19.51	28.65	57.07	47.92	Upper Trent River - shale	1" PVC
MW01-D	TS-01-03 <sup>1</sup>	8.72	11.77	71.09	68.04	Surficial Overburden – sandy silt & gravel	2" PVC
		25.60	34.75	54.20	45.06	Upper Trent River - shale	1" PVC
MW01-C	TS-01-04	3.05	5.79	72.73	69.99	Surficial Overburden – Silty Sand & gravel	2" PVC
		17.37	23.47	58.41	52.31	Upper Trent River - shale	1" PVC
MW01-C(2)	TS-01-05	4.88	7.92	70.94	67.90	Surficial Overburden – Silty Sand & gravel	2" PVC
Note <sup>1</sup>		Piezometers in this hole are damaged or missing and should not be used.					

Graphics of the holes and original measured data are provided from data acquired from Hillsborough and is found attached as Appendix C.

These holes were refurbished and re-secured and added to the monitoring wells for the Raven Project.



## **7.0 REVIEW OF 2009 HYDROGEOLOGICAL DRILLHOLE PROGRAM**

Additional information about the 2009 hydrogeological drill holes came to light during the 2011 program and a review of the 2009 program is warranted.

Five drill sites were selected for groundwater testing and monitoring. Eight drill holes were drilled; four of the holes were exploration holes which were converted to monitoring wells and 4 of the holes were drilled specifically for hydrogeological testing. Site N-2009 was selected as a potential pump test site and 2 holes were drilled – RAV-09-040, a monitoring well and RAV-09-041 a pump test well. The site proved to be unsuitable for a pump test owing to a lack of sufficient water. A 3 day pump test was carried out at drill hole RAV-09-012 but deemed unsuitable for a long term pump test. A search for a suitable site was made and site V-2009 (the site for abandoned and reclaimed hole RAV-09-020) was selected. RAV-09-020 intersected the greatest flow intersected of any drill holes in the 2009 exploration drilling. Two holes were drilled at the site; RAV-09-042 a monitoring well and RAV-09-043 a pump test well. A pump test was carried out from April to June 2010. The Hydrogeological testing was under the supervision of AMEC of Vancouver, BC with input from Itasca Denver Inc. (formerly HCI Corp. of Denver).

Drillholes drilled for hydrogeological monitoring and testing purposes are listed in Table 10 below. Also listed are 5 holes where water level measurements were made in standing open hole casing where the surface hole into bedrock was drilled but the holes not completed owing to curtailment of the exploration program. A summary of the piezometer installations is provided in Table 11.

**Table 10: Hydrogeological Drill Holes Locations (2009)**

Site <sup>1</sup>	Drill Hole ID	Location UTM Zone 10 NAD 83			Total Depth (m)	Bedrock Depth (m)
		Easting (m)	Northing (m)	Surface Elev. (mamsl)		
X-2009	RAV-09-006	365554.44	5483048.71	185.90	179.05	67.67
U-2009	RAV-09-012	365810.38	5483763.43	133.39	324.16	28.04
AA-2009	RAV-09-022	366174.58	5482646.81	179.45	168.30	77.50
N-2009	RAV-09-034	364304.18	5484572.28	128.48	187.30	13.00
	RAV-09-040	364306.81	5484568.03	128.49	121.92	13.40
	RAV-09-041	364291.98	5484564.36	128.48	110.93	13.40
V-2009	RAV-09-042	366386.63	5483953.50	75.84	339.50	4.50
	RAV-09-043	366424.46	5483951.48	74.86	297.50	4.50
TS-96-04 <sup>2</sup>	TS96-04	364165.17	5483547.35	207.4	63.00	59.99
AB-2009 <sup>3</sup>		367298.68	5483105.43	77.93	47.26	47.20
AD-2009 <sup>3</sup>		366402.09	5482274.79	173.77	74.00	58.00
NB-2009 <sup>3</sup>		364783.64	5486496.29	79.49	34.40	27.70
NC-2009 <sup>4</sup>		363874.05	5486942.59	94.05	43.70	37.70
Notes: <sup>1</sup> Site is site ID prior to drilling						
<sup>2</sup> Open cased hole from Hillsborough 1996 drilling program						
<sup>3</sup> Open cased hole to bedrock but not drilled						
<sup>4</sup> Open cased hole to bedrock; used in 2011 for RAV-11-02a						

**Table 11: Tabulation of Piezometers Installed (2009)**

Drill Hole ID	Total Depth (m)	Name	Screen or TR interval				Formation/Member/Lithology Tested	Piezometer Type
			Depth From (m)	Depth To (m)	Elev Top (mamsl)	Elev Base (mamsl)		
RAV-09-006	179.05	Piezo	96.00	115.00	89.90	70.90	Seam 1	2" Schedule 40 PVC Pipe
RAV-09-012	324.16	Piezo	92.00	130.00	41.39	3.39	Cougar Smith, Cowie and Undivided Upper Trent River	5" PVC Pipe
RAV-09-022	168.30	Piezo	158.50	164.60	20.95	14.85	in Seam 1	2" Schedule 80 PVC Pipe
RAV-09-034	187.30	Piezo	134.10	140.50	-5.62	-12.02	in Seam 1	2" Schedule 80 PVC Pipe
RAV-09-040	121.92	VWT 90	90	90	38.49	38.49	Dunsmuir 3 Sandstone	VWT 3.0Mpa
RAV-09-040	121.92	VWT 111	111	111	17.49	17.49	Dunsmuir 3 Mudstone in roof of Seam 3 Upper	VWT 3.0Mpa
RAV-09-040	121.92	VWT 119	119	119	9.49	9.49	Cumberland 2 Sandstone	VWT 3.0Mpa
RAV-09-041	110.93	Piezo	101.80	111.00	26.68	17.48	Seam 3, and Dunsmuir 3 Sandstone and Siltstone in roof	5" PVC Pipe
RAV-09-042	339.50	Piezo 2	148	159	-72.16	-83.16	Cougar Smith SS/SLTST	5/8" high density polyethylene tubing and 1" schedule 40 PVC pipe over upper 18.3m
RAV-09-042	339.50	Piezo 1	161	162	-85.16	-86.16	Cougar Smith SLTST	3/4" Schedule 40 PVC Pipe
RAV-09-042	339.50	VWT 280	280	280	-204.16	-204.16	Dunsmuir 3 SS Above Seam 3	VWT 5.0Mpa
RAV-09-042	339.50	VWT 314	314	314	-238.16	-238.16	Cumberland 1 SS Between Seam 3 and Seam 1	VWT 5.0Mpa
RAV-09-042	339.50	VWT 326	326	326	-250.16	-250.16	Cumberland 1 MS Above Seam 1	VWT 5.0Mpa
RAV-09-043	297.50	Standpipe	0	231	74.86	-156.14	TD to top of Seam 3; pump test near base of Cougar Smith	Standpipe
TS96-04	63.00	Standpipe	0.00	63.00	207.40	144.40	bedrock at 59.9m	Standpipe 6" steel casing
AB-2009	47.26	Standpipe	0.00	47.26	77.93	30.67	shale 1.0 m below till; base of till at 46.26m	Standpipe 6" steel casing
AD-2009	69.21	Standpipe	0.00	69.21	173.77	104.56	Bedrock at 58m SS/SLTST to 74m	Standpipe 6" steel casing
NB-2009	23.60	Standpipe	0.00	23.60	79.49	55.89	Bedrock at 27.7m; probably slough in bottom of hole	Standpipe 6" steel casing
NC-2009	43.70	Standpipe	0.00	43.70	94.05	50.35	Bedrock at 37.5m	Standpipe 6" steel casing

Graphic presentations of hydrogeological drillholes are attached as Appendix D.

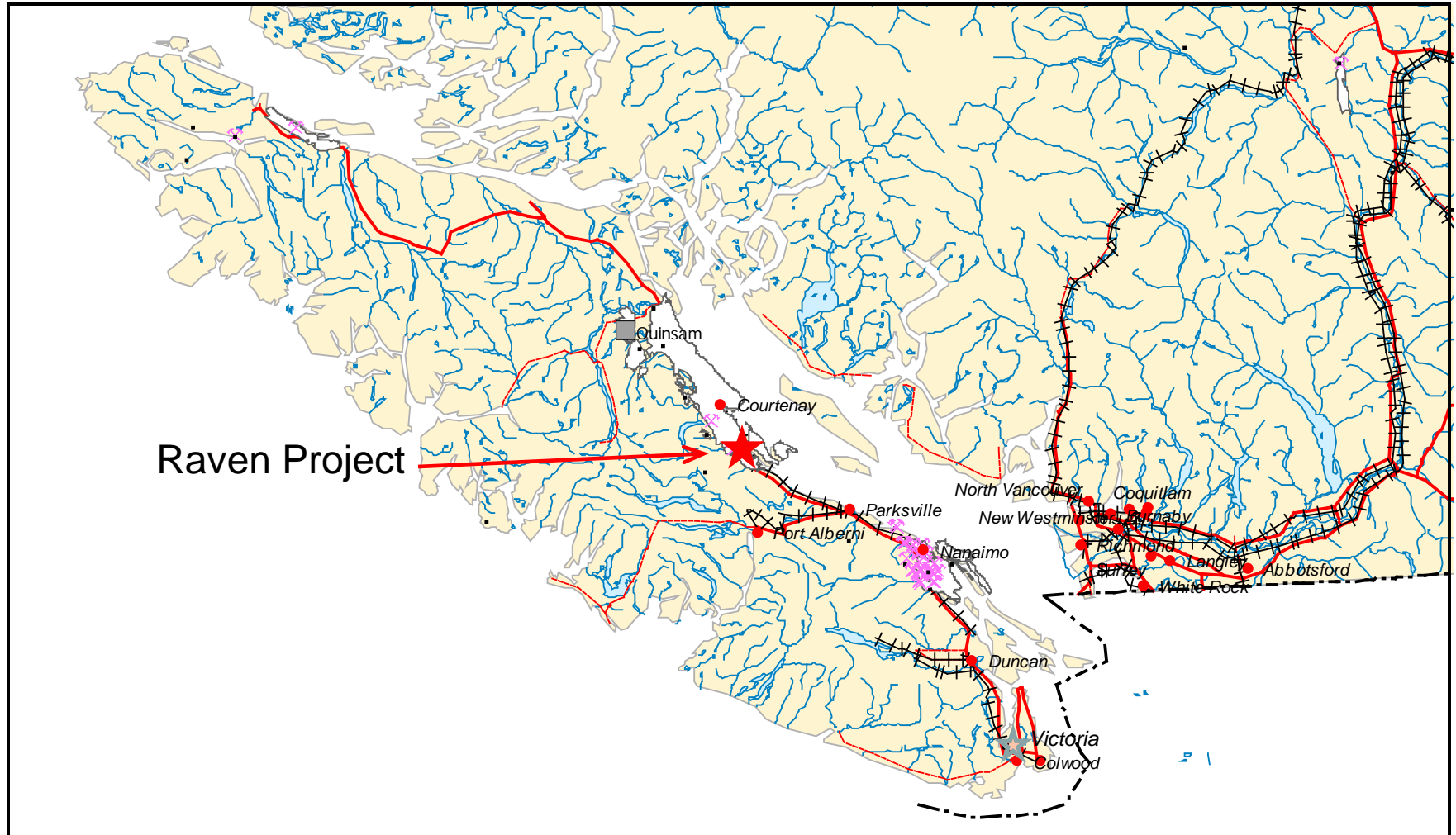
## 8.0 STATEMENT OF EXPENDITURES - 2011

Table 12 summarizes exploration expenditures at the Raven Project during 2011.



Table 12: Statement of Expenditures - 2011

Permit Application	5,000
Site Preparation, Access, Reclamation and Surveying	43,000
Drilling (including abandonment)	500,000
Geophysical Logging	10,000
Geotechnical and Hydrogeological Testing	146,000
Geological Supervision (personnel, room & board, travel, vehicles, core storage etc)	120,000
TOTAL	\$824,000



Raven Project

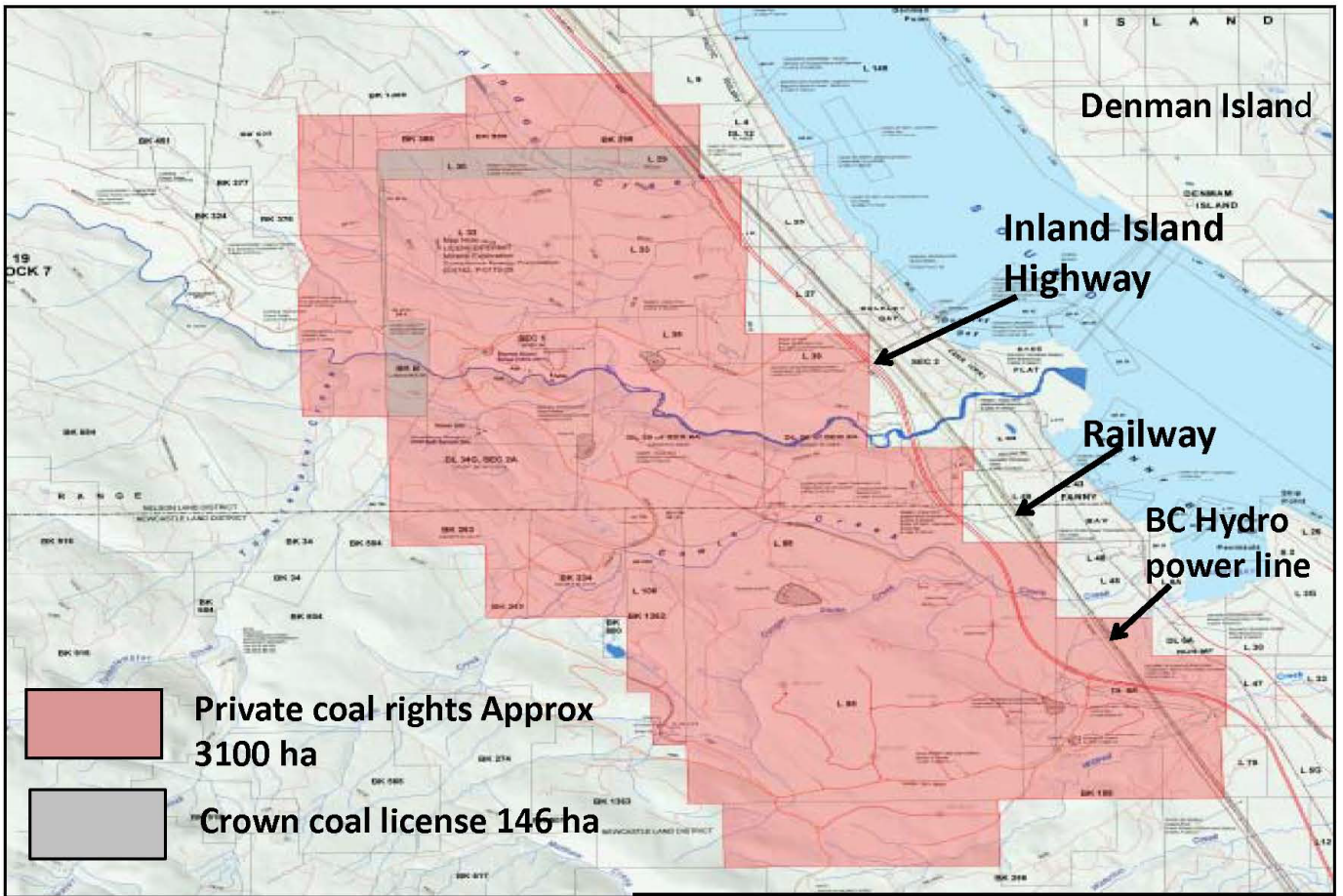


**Compliance Coal  
CORPORATION**  
DBA Comox Joint Venture

**RAVEN PROJECT**  
Vancouver Island, British Columbia

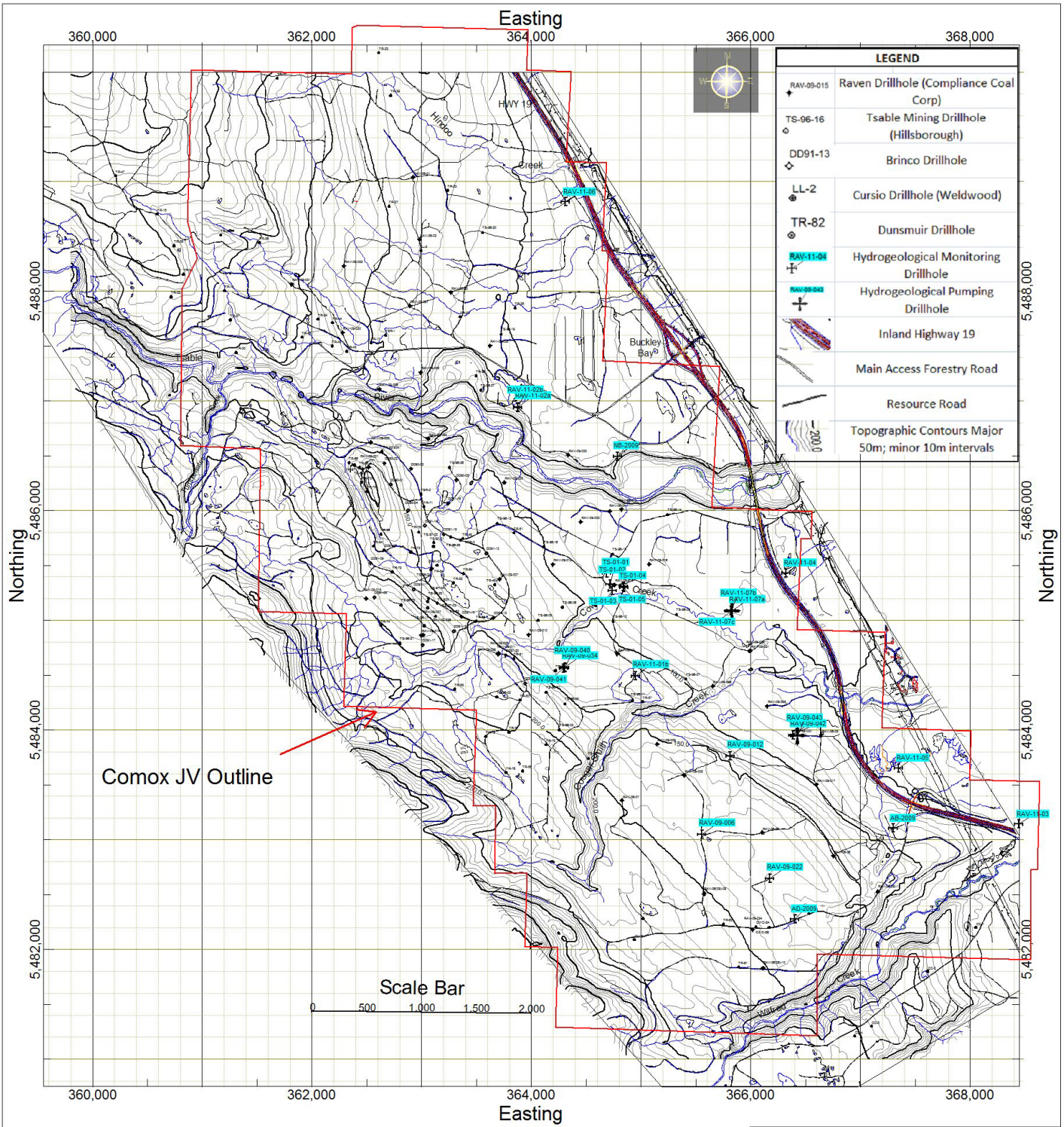
Figure 1





**RAVEN PROJECT**  
**General Infrastructure and Site Layout**  
Figure 2



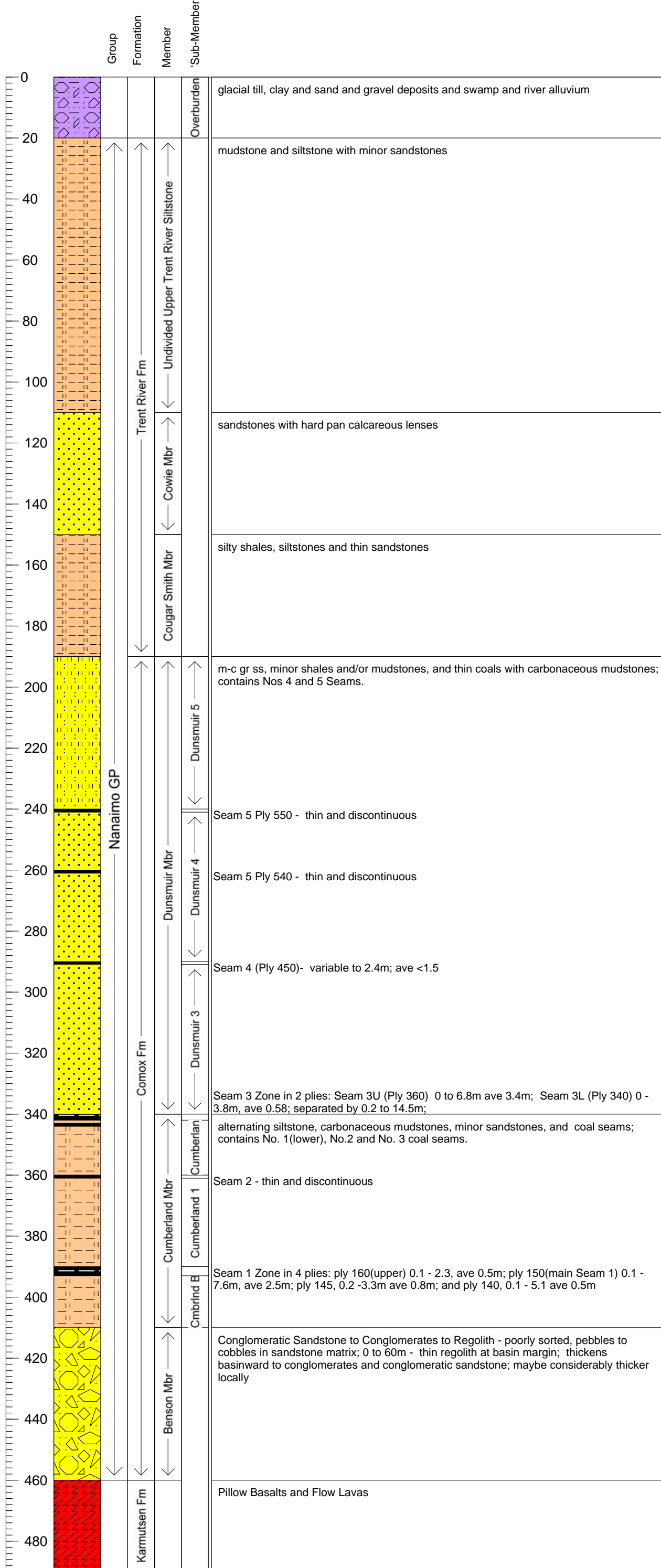


**Raven Project**

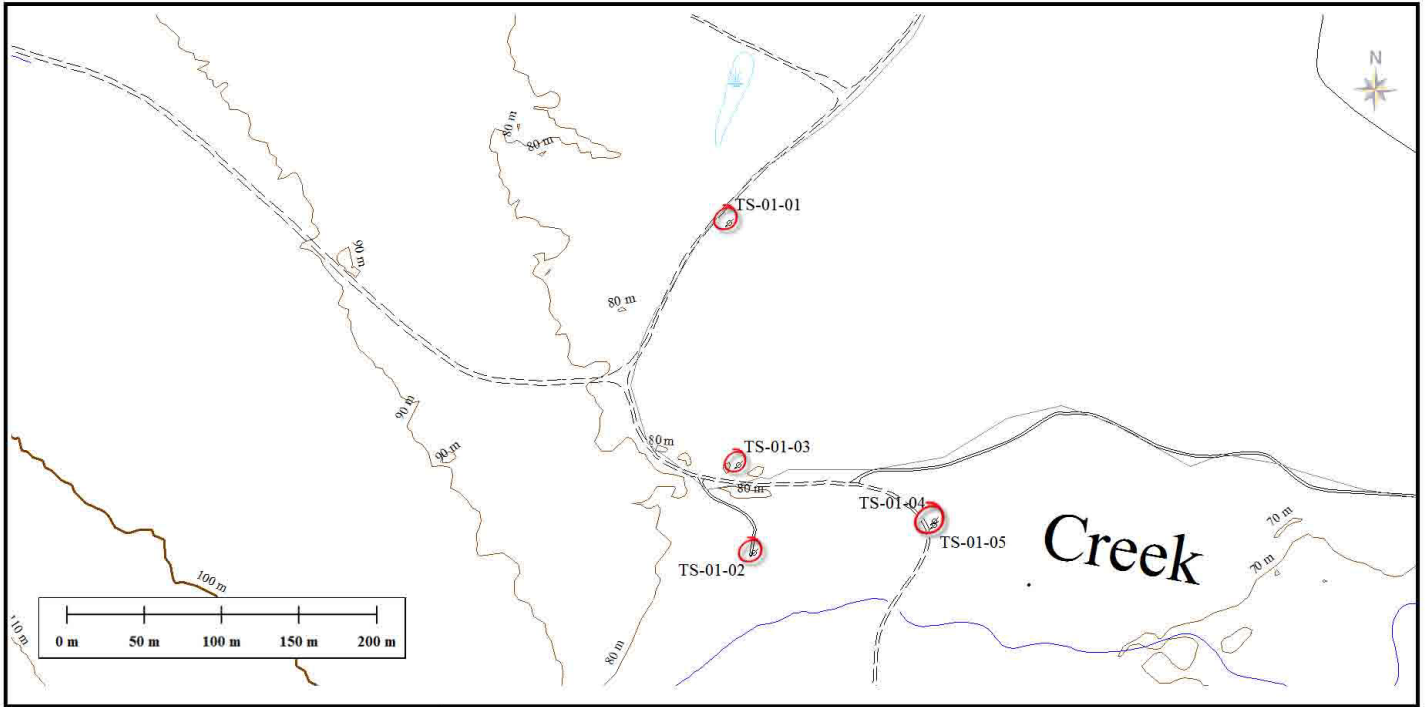
**Hydrogeological Drilling Program 2011**  
**Property Plan - Hydrogeological Holes**  
**Highlighted**

**FIGURE 3**

March, 2012



Compliance Coal Corp.	
Raven Project	
Generalized Stratigraphic Section (Trent River Truncated)	
January, 2012	Figure 4



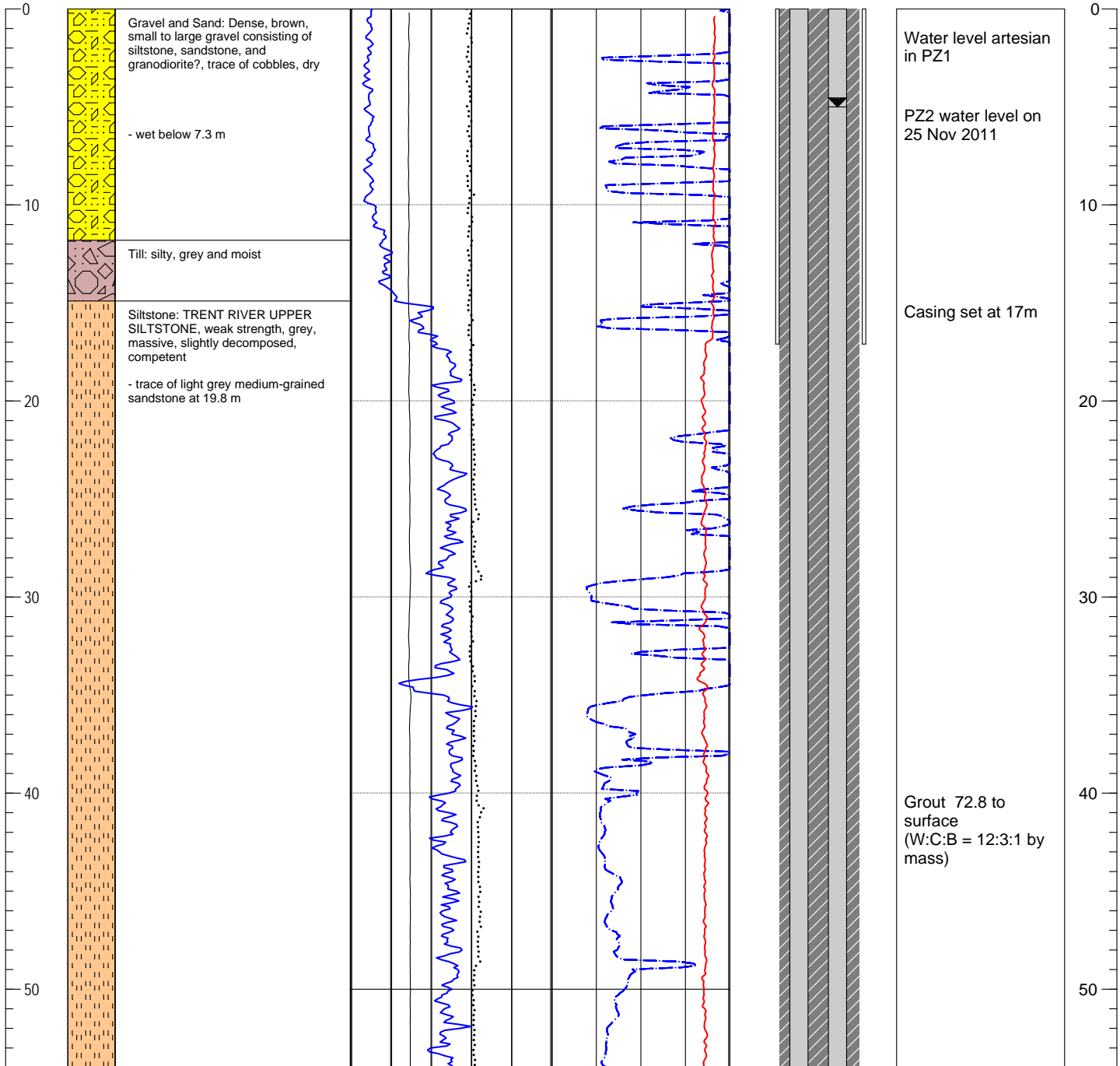
<b>Raven Project</b>
<b>Hydrogeological Drilling Program 2011</b>
<b>Location of Historical (Hillsborough)</b>
<b>Piezometer Monitoring Holes</b>
<b>FIGURE 5</b>
March, 2012



## **APPENDIX A**

### **Graphic Logs of 2011 Drill Holes**

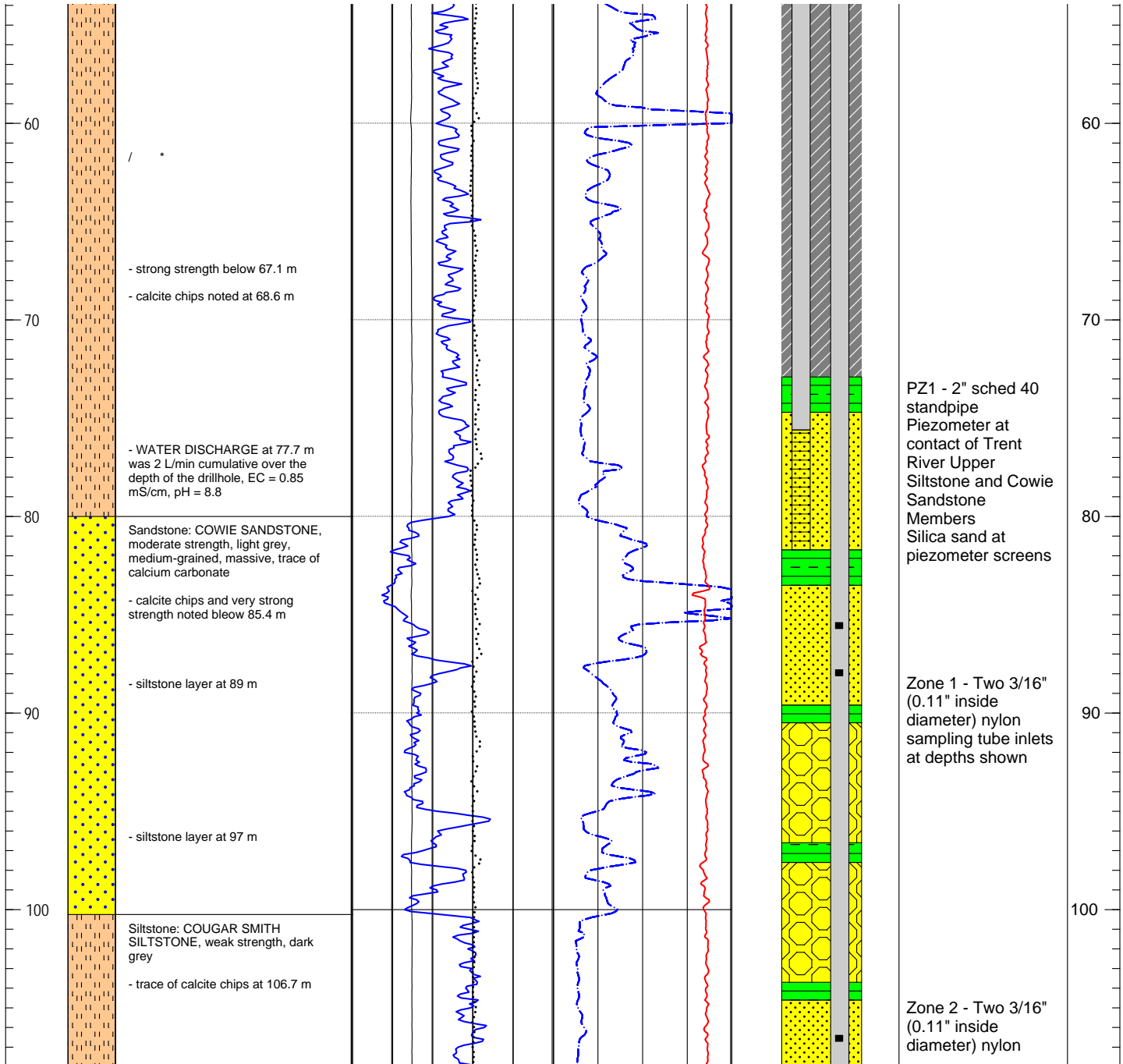
Drilled By <b>Drillwell Enterprises</b>		Cuttings/Core Description By <b>OC/RM</b>		DH ID <b>RAV-11-01b</b>			
Date Completed <b>August 8, 2011</b>		Date Logged <b>August 4 - 8, 2011</b>		Location UTM Zone <b>10 NAD 83</b>			
Drilling Type <b>Air Rotary</b>	T.D. <b>279.5</b>	Geophysical Logger <b>Electrolog Services Inc</b>		Easting (m) <b>364949.14</b>	Northing (m) <b>5484492.87</b>		
Hole Size <b>6"</b>	Angle <b>-90</b>	Date Logged <b>August 8, 2011</b>		Elevation (m) <b>115.13</b>			
Depth (m)	Lithology Graphic	Lithology Description	Gamma API	Density g/cc	Drill Hole Construction	Comments	Depth (m)
			0 150	1.0 3.0			
			Caliper mm	Resistance			
			50 250	0.0 Ohm 2000.0			
			SP mV				
			-2500 2500				



Compliance Coal Corp.		
Raven Coal Project		
Hydrogeological Drilling Program, 2011		
December 6, 2011	Scale: 1:300	Figure A-1b

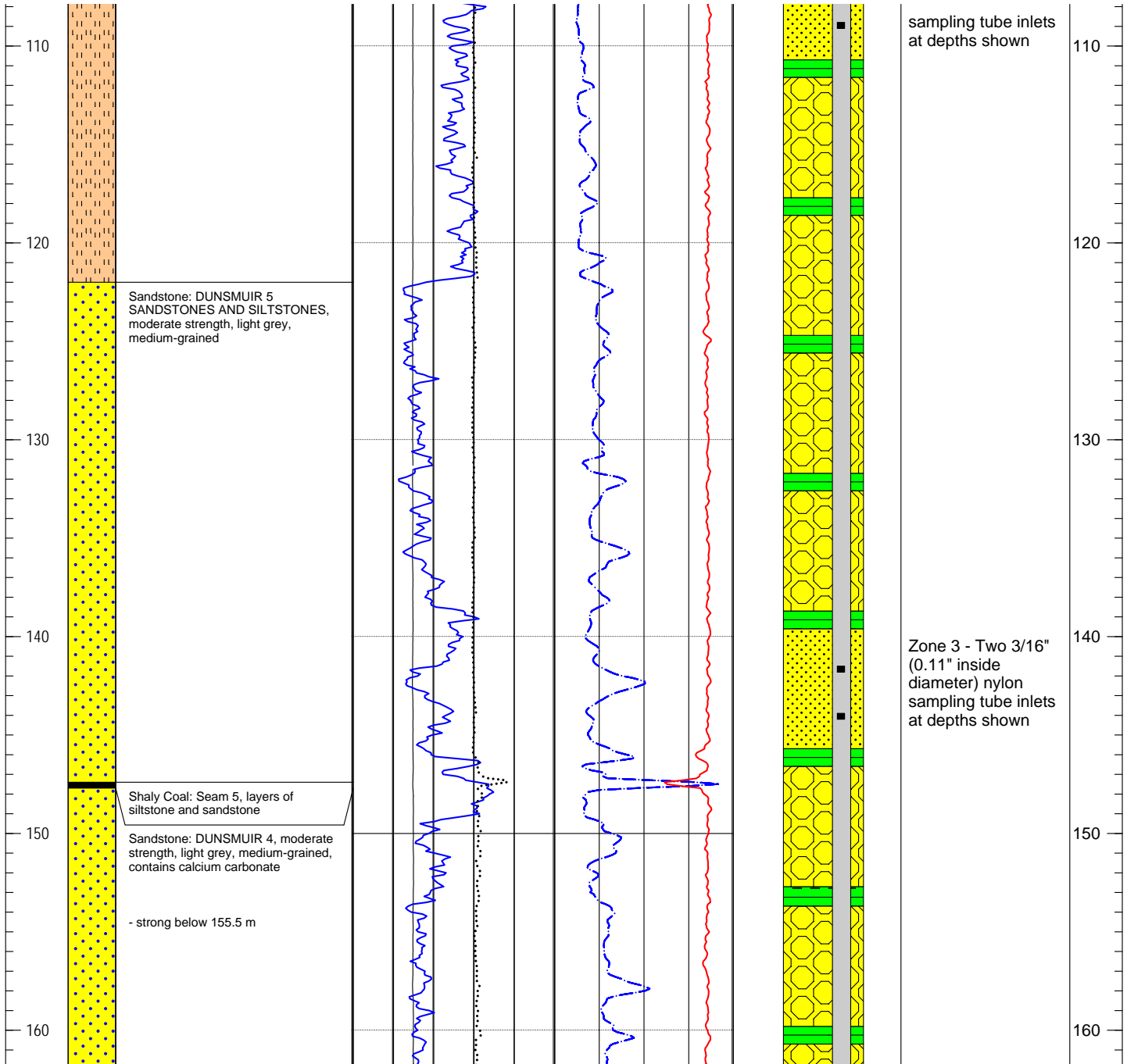


Drilled By <b>Drillwell Enterprises</b>		Cuttings/Core Description By <b>OC/RM</b>		DH ID <b>RAV-11-01b</b>	
Date Completed <b>August 8, 2011</b>		Date Logged <b>August 4 - 8, 2011</b>		Location UTM Zone <b>10 NAD 83</b>	
Drilling Type <b>Air Rotary</b>	T.D. <b>279.5</b>	Geophysical Logger <b>Electrolog Services Inc</b>		Easting (m) <b>364949.14</b>	Northing (m) <b>5484492.87</b>
Hole Size <b>6"</b>	Angle <b>-90</b>	Date Logged <b>August 8, 2011</b>		Elevation (m) <b>115.13</b>	
Depth (m)	Lithology Graphic	Gamma API		Density g/cc	
		0	150	1.0	3.0
Lithology Description	Lithology Description	Caliper mm		Resistance Ohm	
		50	250	0.0	2000.0
		SP mV			
		-2500	2500		
		Drill Hole Construction		Comments	
				Depth (m)	



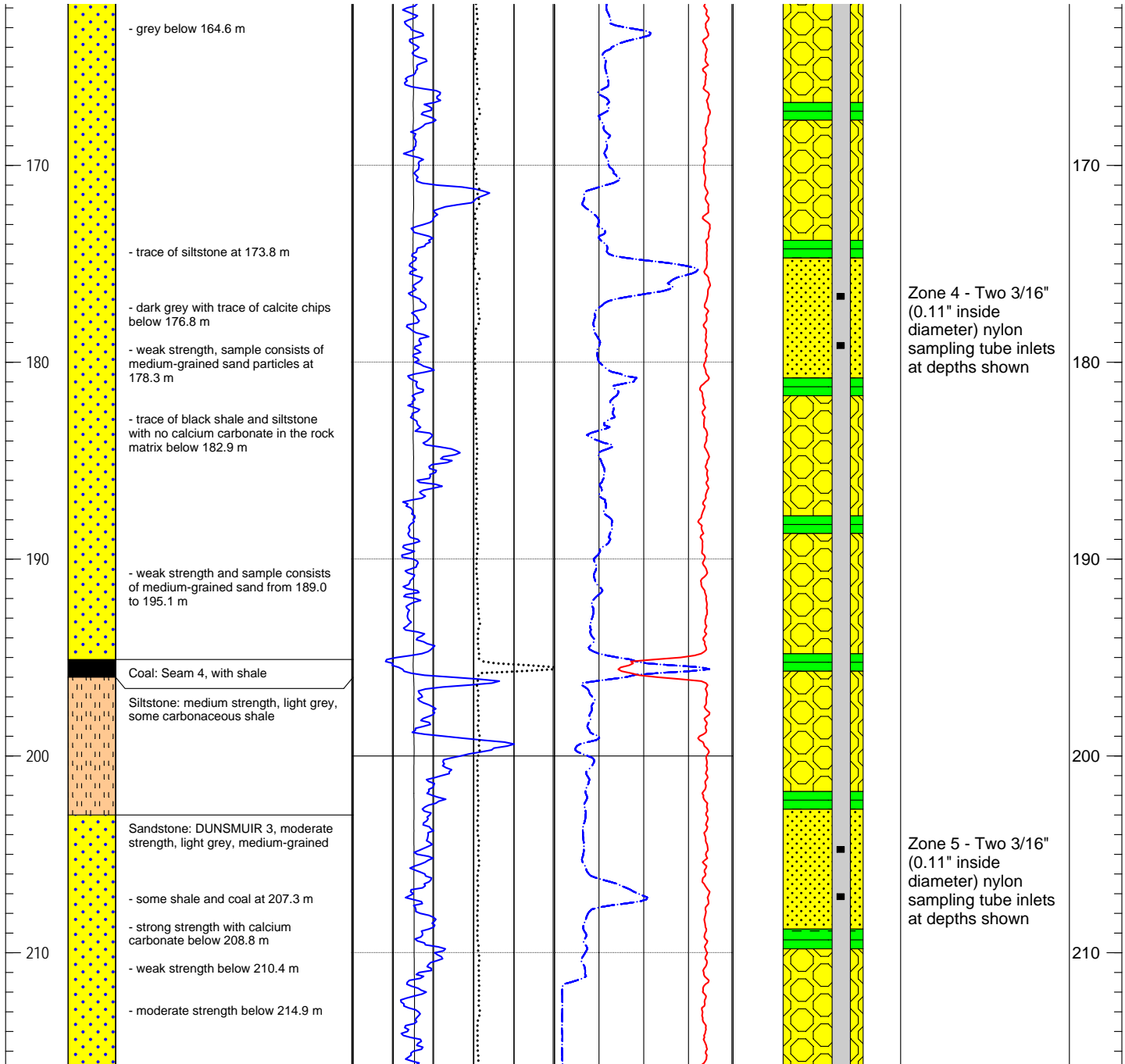
Compliance Coal Corp.		
Raven Coal Project		
Hydrogeological Drilling Program, 2011		
December 6, 2011	Scale: 1:300	Figure A-1b

Drilled By <b>Drillwell Enterprises</b>		Cuttings/Core Description By <b>OC/RM</b>		DH ID <b>RAV-11-01b</b>			
Date Completed <b>August 8, 2011</b>		Date Logged <b>August 4 - 8, 2011</b>		Location UTM Zone <b>10 NAD 83</b>			
Drilling Type <b>Air Rotary</b>	T.D. <b>279.5</b>	Geophysical Logger <b>Electrolog Services Inc</b>		Easting (m) <b>364949.14</b>	Northing (m) <b>5484492.87</b>		
Hole Size <b>6"</b>	Angle <b>-90</b>	Date Logged <b>August 8, 2011</b>		Elevation (m) <b>115.13</b>			
Depth (m)	Lithology Graphic	Lithology Description	Gamma API	Density g/cc	Drill Hole Construction	Comments	Depth (m)
			0 150	1.0 3.0			
			Caliper mm	Resistance			
			50 250	0.0 Ohm 2000.0			
			SP mV				
			-2500 2500				



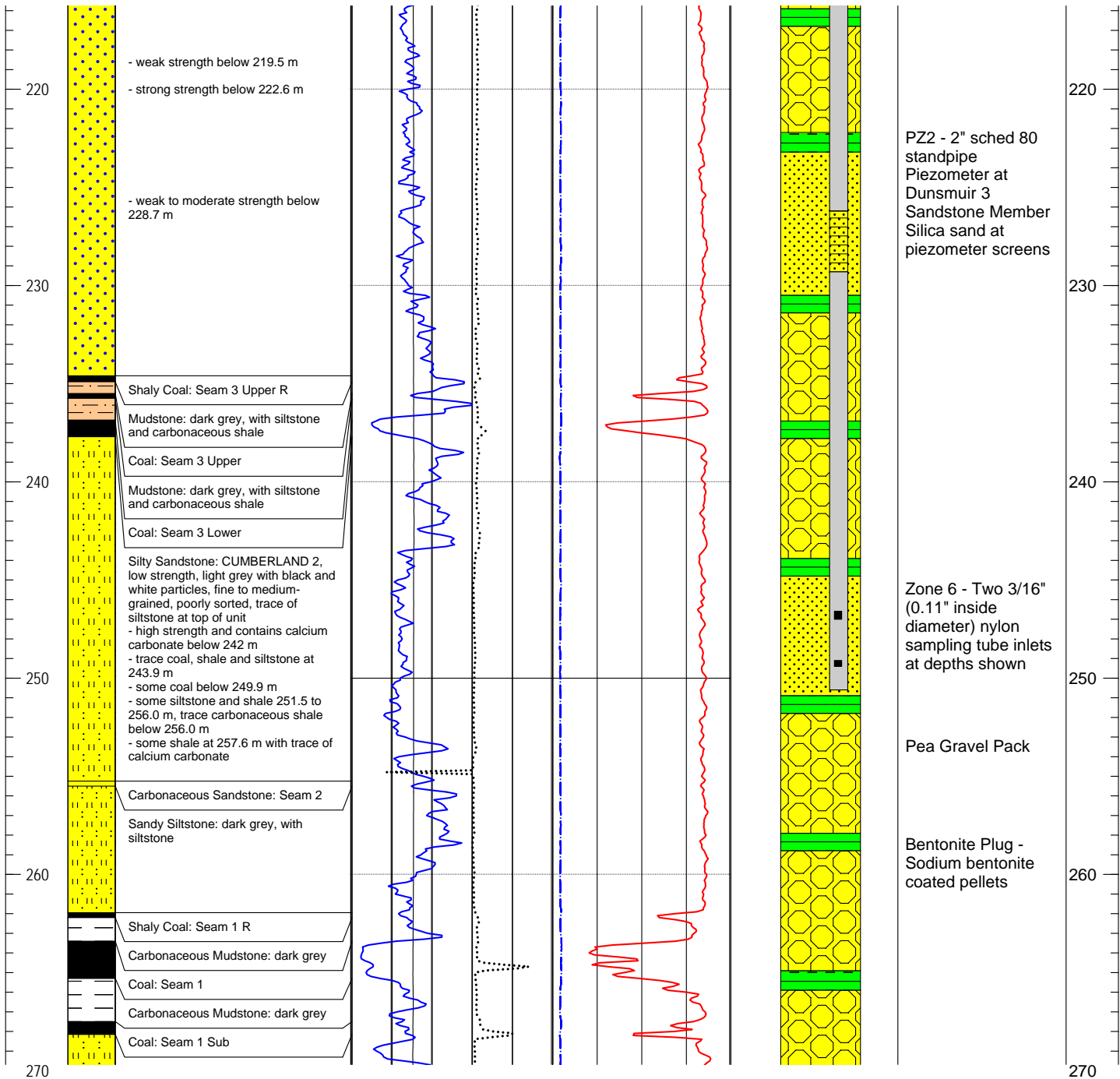
Compliance Coal Corp.		
Raven Coal Project		
Hydrogeological Drilling Program, 2011		
December 6, 2011	Scale: 1:300	Figure A-1b

Drilled By <b>Drillwell Enterprises</b>		Cuttings/Core Description By <b>OC/RM</b>		DH ID <b>RAV-11-01b</b>	
Date Completed <b>August 8, 2011</b>		Date Logged <b>August 4 - 8, 2011</b>		Location UTM Zone <b>10 NAD 83</b>	
Drilling Type <b>Air Rotary</b>	T.D. <b>279.5</b>	Geophysical Logger <b>Electrolog Services Inc</b>		Easting (m) <b>364949.14</b>	Northing (m) <b>5484492.87</b>
Hole Size <b>6"</b>	Angle <b>-90</b>	Date Logged <b>August 8, 2011</b>		Elevation (m) <b>115.13</b>	
Depth (m)	Lithology Graphic	Gamma API		Density g/cc	
		0	150	1.0	3.0
Lithology Description	Lithology Description	Caliper mm		Resistance Ohm	
		50	250	0.0	2000.0
		SP mV			
		-2500	2500		
		Drill Hole Construction		Comments	
					Depth (m)



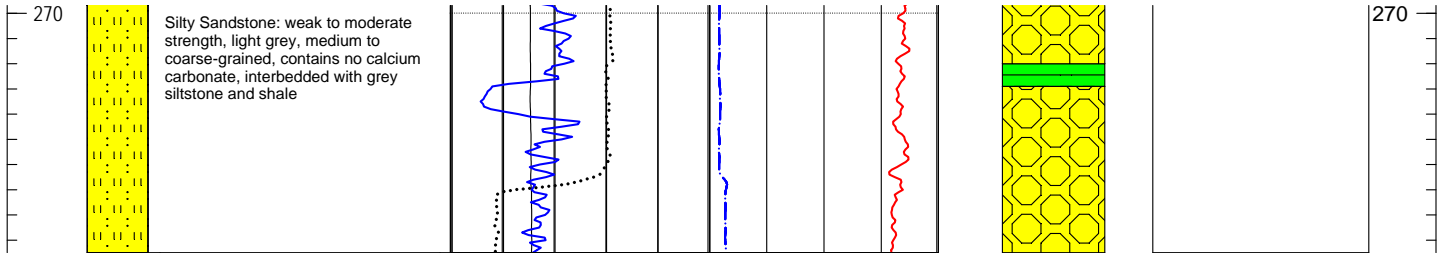
Compliance Coal Corp.		
Raven Coal Project		
Hydrogeological Drilling Program, 2011		
December 6, 2011	Scale: 1:300	Figure A-1b

Drilled By <b>Drillwell Enterprises</b>		Cuttings/Core Description By <b>OC/RM</b>		DH ID <b>RAV-11-01b</b>			
Date Completed <b>August 8, 2011</b>		Date Logged <b>August 4 - 8, 2011</b>		Location UTM Zone <b>10 NAD 83</b>			
Drilling Type <b>Air Rotary</b>	T.D. <b>279.5</b>	Geophysical Logger <b>Electrolog Services Inc</b>		Easting (m) <b>364949.14</b>	Northing (m) <b>5484492.87</b>		
Hole Size <b>6"</b>	Angle <b>-90</b>	Date Logged <b>August 8, 2011</b>		Elevation (m) <b>115.13</b>			
Depth (m)	Lithology Graphic	Lithology Description	Gamma API	Density g/cc	Drill Hole Construction	Comments	Depth (m)
			Caliper mm	Resistance Ohm			
			0 150	1.0 3.0			
			50 250	0.0 2000.0			
			-2500 2500				



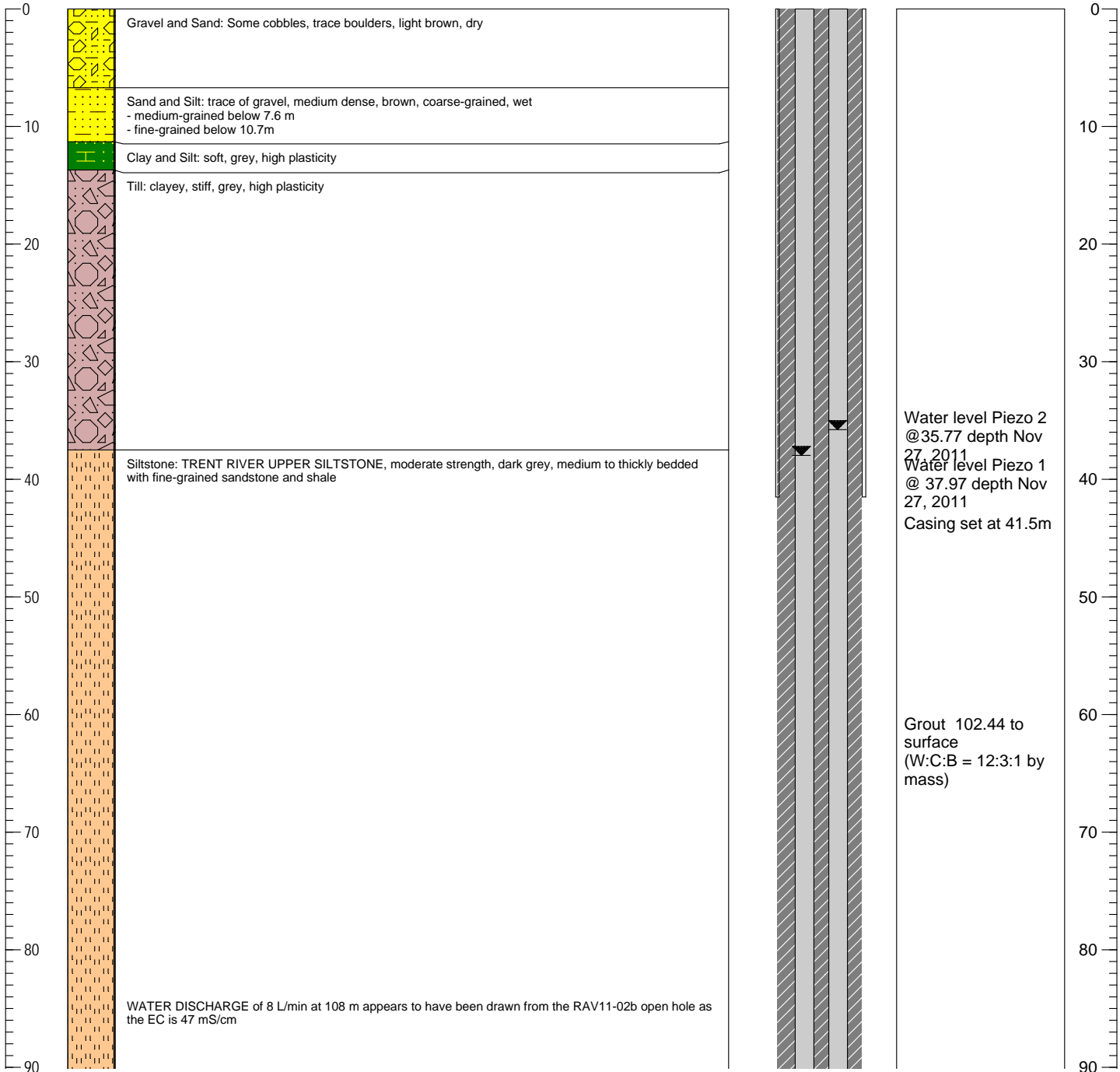
Compliance Coal Corp.		
Raven Coal Project		
Hydrogeological Drilling Program, 2011		
December 6, 2011	Scale: 1:300	Figure A-1b

Drilled By <b>Drillwell Enterprises</b>		Cuttings/Core Description By <b>OC/RM</b>		DH ID <b>RAV-11-01b</b>			
Date Completed <b>August 8, 2011</b>		Date Logged <b>August 4 - 8, 2011</b>		Location UTM Zone <b>10 NAD 83</b>			
Drilling Type <b>Air Rotary</b>	T.D. <b>279.5</b>	Geophysical Logger <b>Electrolog Services Inc</b>		Easting (m) <b>364949.14</b>	Northing (m) <b>5484492.87</b>		
Hole Size <b>6"</b>	Angle <b>-90</b>	Date Logged <b>August 8, 2011</b>		Elevation (m) <b>115.13</b>			
Depth (m)	Lithology Graphic	Lithology Description	Gamma API	Density g/cc	Drill Hole Construction	Comments	Depth (m)
			0 150	1.0 3.0			
			Caliper mm	Resistance Ohm			
50 250	0.0 2000.0	SP mV	-2500 2500				



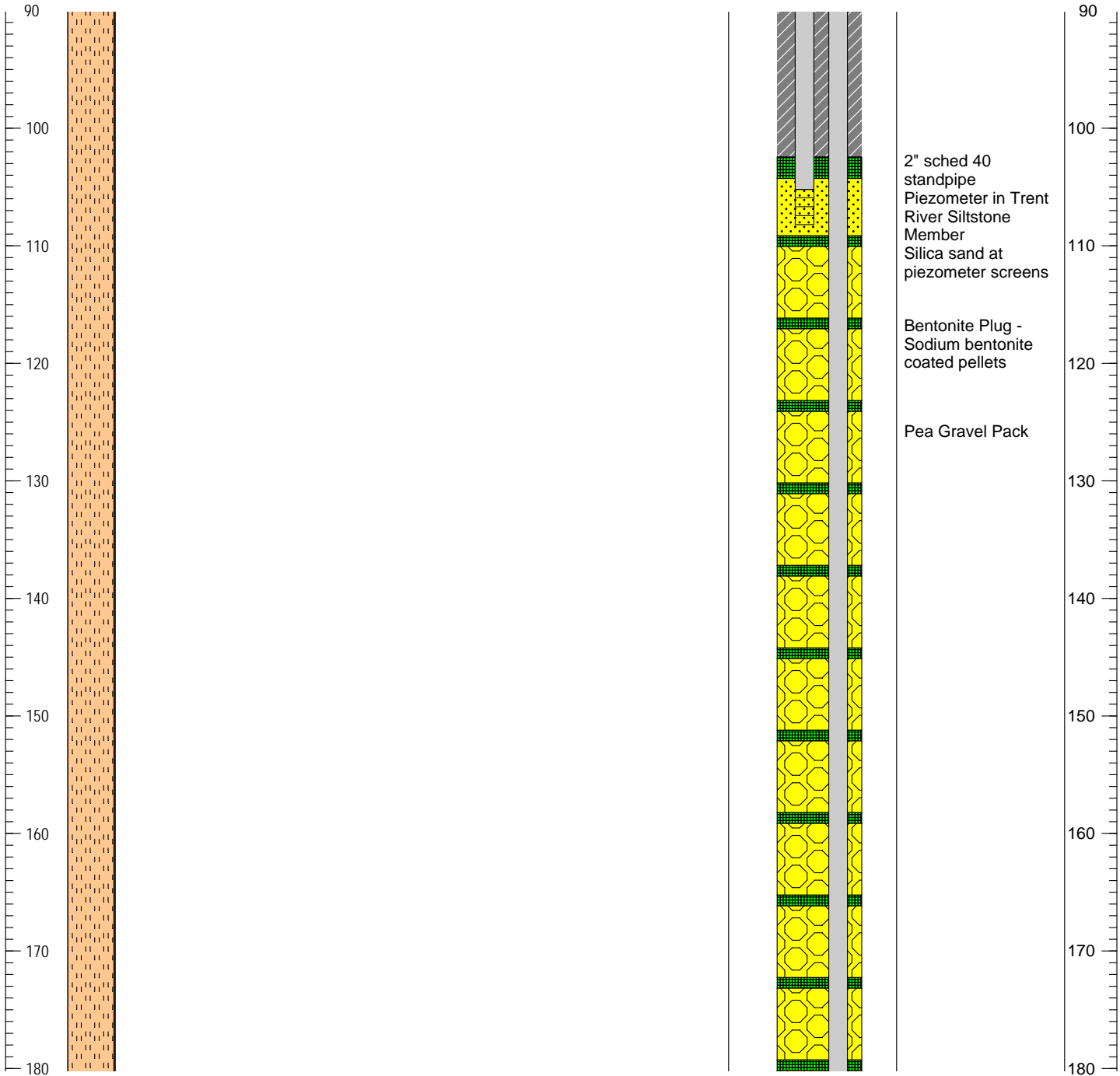
Compliance Coal Corp.		
Raven Coal Project		
Hydrogeological Drilling Program, 2011		
December 6, 2011	Scale: 1:300	Figure A-1b

Drilled By <b>Drillwell Enterprises</b>		Cuttings/Core Description By <b>R. McLean</b>		DH ID <b>RAV11-02a</b>	
Date Completed <b>August 2, 2011</b>		Date Logged <b>July 28 - 2 August, 2011</b>		Location UTM Zone <b>10 NAD 83</b>	
Drilling Type <b>Air Rotary</b>	T.D. <b>212.5 m</b>	Geophysical Logger <b>NA</b>		Easting (m) <b>363874.09</b>	Northing (m) <b>5486942.60</b>
Hole Size <b>6"</b>	Angle <b>-90</b>	Date Logged <b>NA</b>		Elevation (m) <b>94.04</b>	
Depth (m)	Lithology Graphic	Lithology Description		Drill Hole Construction	Comments



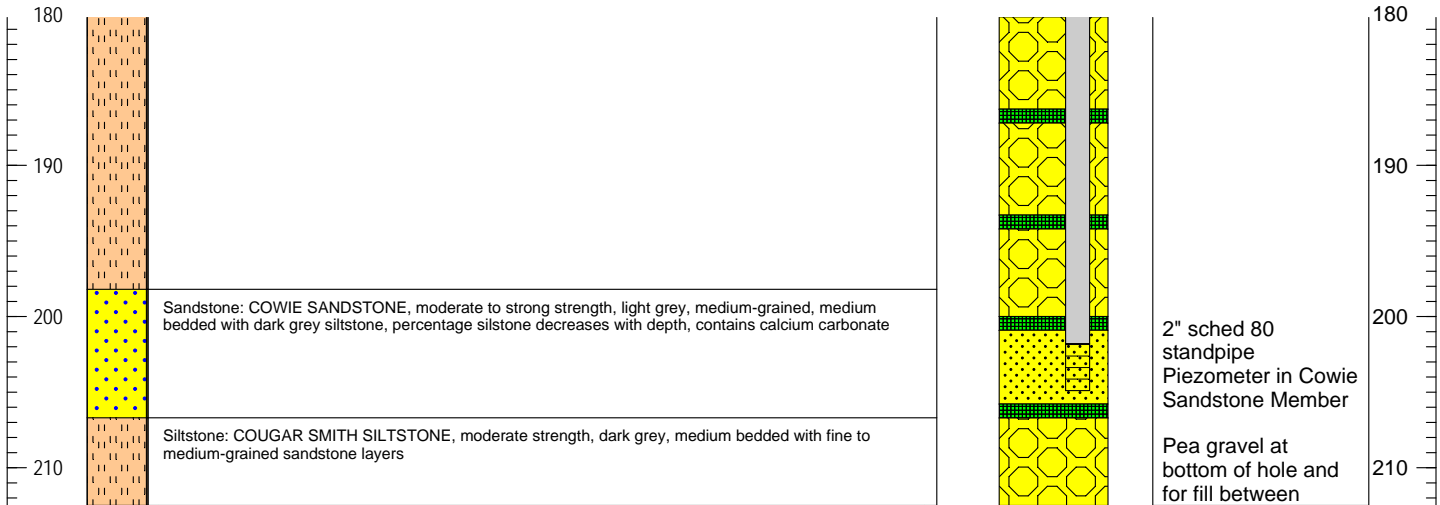
Compliance Coal Corp.		
Raven Coal Project		
Hydrogeological Drilling Program		
November 3, 2011	Scale: 1:500	FIGURE A-2a

Drilled By <b>Drillwell Enterprises</b>			Cuttings/Core Description By <b>R. McLean</b>			DH ID <b>RAV11-02a</b>		
Date Completed <b>August 2, 2011</b>			Date Logged <b>July 28 - 2 August, 2011</b>			Location UTM Zone <b>10 NAD 83</b>		
Drilling Type <b>Air Rotary</b>		T.D. <b>212.5 m</b>	Geophysical Logger <b>NA</b>			Easting (m)	Northing (m)	Elevation (m)
Hole Size <b>6"</b>		Angle <b>-90</b>	Date Logged <b>NA</b>			<b>363874.09</b>	<b>5486942.60</b>	<b>94.04</b>
Depth (m)	Lithology Graphic	Lithology Description				Drill Hole Construction	Comments	Depth (m)



Compliance Coal Corp.		
Raven Coal Project		
Hydrogeological Drilling Program		
November 3, 2011	Scale: 1:500	FIGURE A-2a

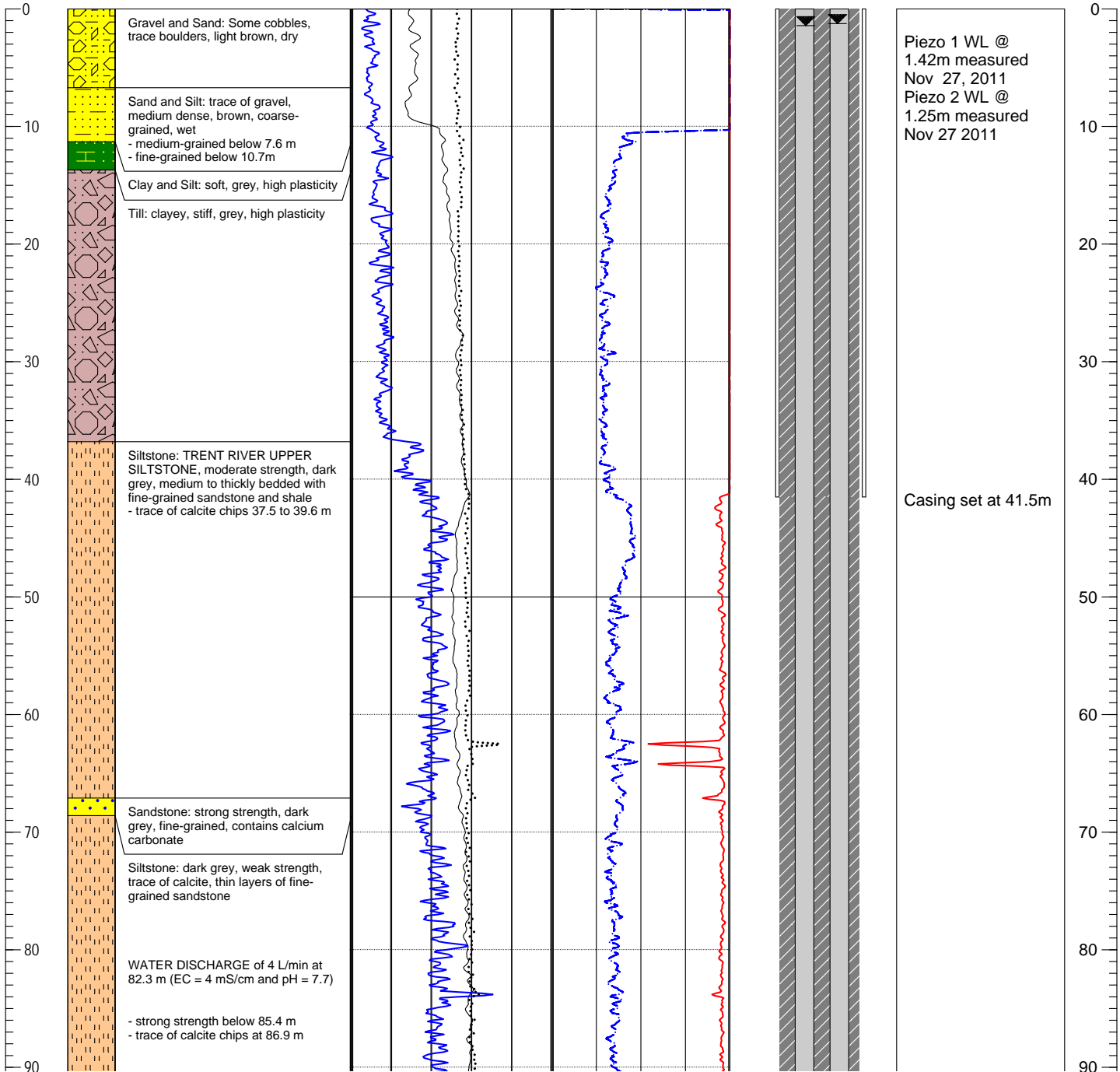
Drilled By <b>Drillwell Enterprises</b>			Cuttings/Core Description By <b>R. McLean</b>			DH ID <b>RAV11-02a</b>		
Date Completed <b>August 2, 2011</b>			Date Logged <b>July 28 - 2 August, 2011</b>			Location UTM Zone <b>10 NAD 83</b>		
Drilling Type <b>Air Rotary</b>		T.D. <b>212.5 m</b>	Geophysical Logger <b>NA</b>			Easting (m)	Northing (m)	Elevation (m)
Hole Size <b>6"</b>		Angle <b>-90</b>	Date Logged <b>NA</b>			<b>363874.09</b>	<b>5486942.60</b>	<b>94.04</b>
Depth (m)	Lithology Graphic	Lithology Description				Drill Hole Construction	Comments	Depth (m)



Compliance Coal Corp.		
Raven Coal Project		
Hydrogeological Drilling Program		
November 3, 2011	Scale: 1:500	FIGURE A-2a

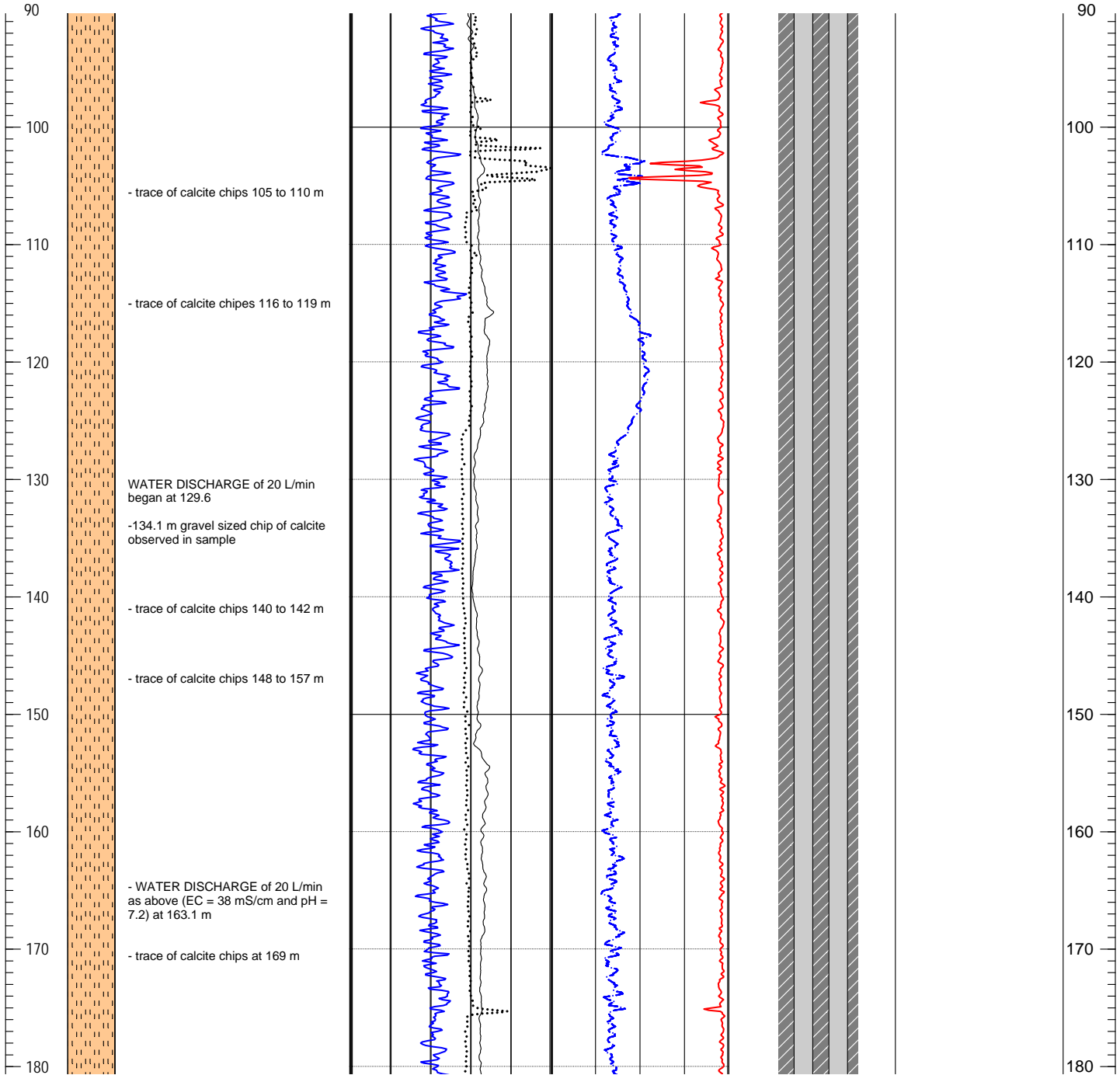


Drilled By <b>Drillwell Enterprises</b>			Cuttings/Core Description By <b>R. McLean</b>			DH ID <b>RAV-11-02b</b>			
Date Completed <b>July 28, 2011</b>			Date Logged <b>July 25 - 28, 2011</b>			Location UTM Zone <b>10 NAD 83</b>			
Drilling Type <b>Air Rotary</b>		T.D. <b>395 m</b>	Geophysical Logger <b>Electrolog Services Inc</b>			Easting (m) <b>363,878.02</b>	Northing (m) <b>5,486,940.71</b>	Elevation (m) <b>93.99</b>	
Hole Size <b>6"</b>		Angle <b>-90</b>	Date Logged <b>August 3, 2011</b>						
Depth (m)	Lithology Graphic	Lithology Description	Gamma API		Density g/cc		Drill Hole Construction	Comments	Depth (m)
			0	150	1.0	3.0			
			Caliper mm		Resistance Ohm				
			50	250	0.0	1000.0			
			SP mV						
			-2500	2500					



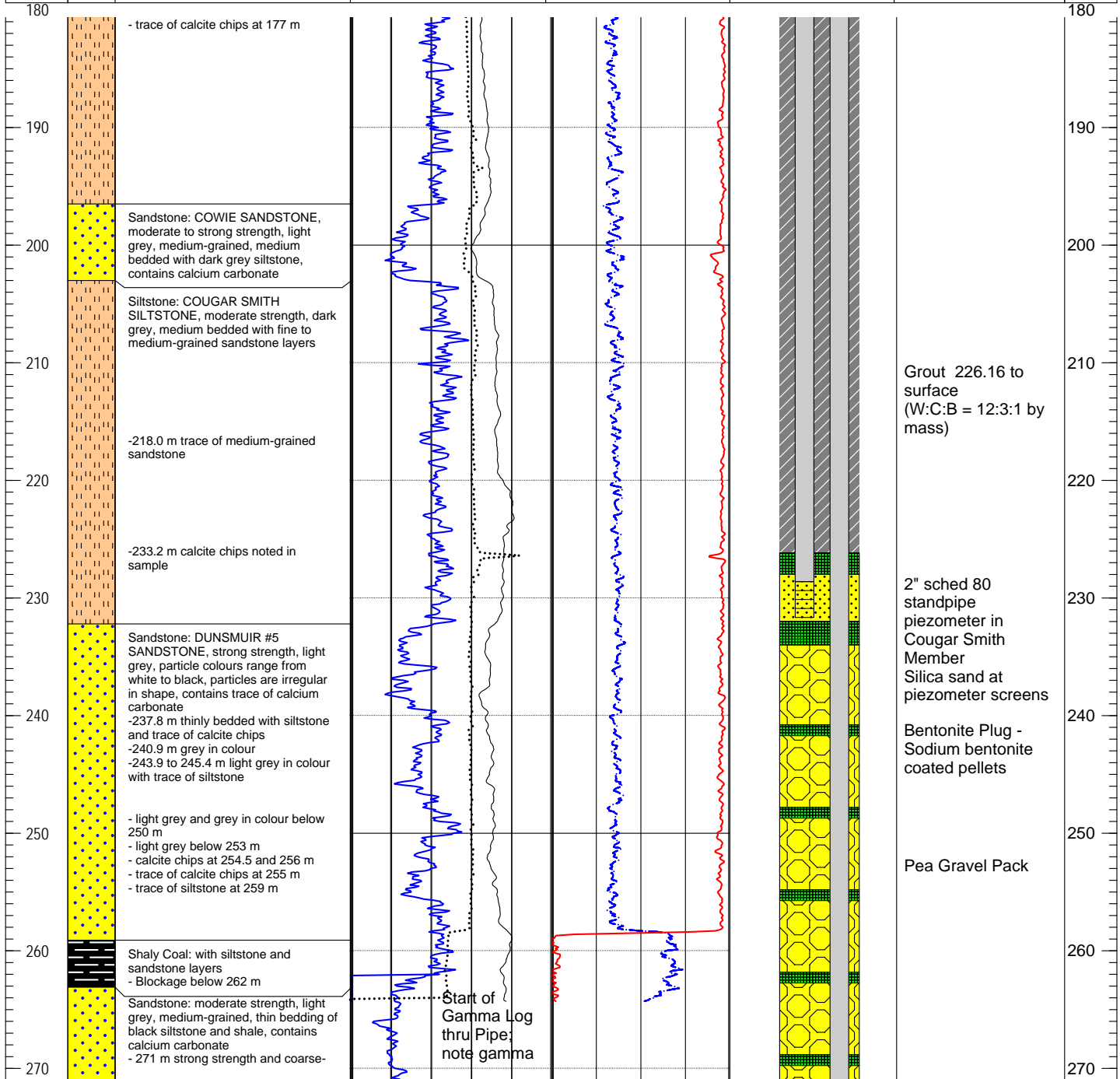
Compliance Coal Corp.		
Raven Coal Project		
Hydrogeological Drilling Program, 2011		
December 13, 2011	Scale: 1:500	FIGURE A-2b

Drilled By <b>Drillwell Enterprises</b>		Cuttings/Core Description By <b>R. McLean</b>		DH ID <b>RAV-11-02b</b>	
Date Completed <b>July 28, 2011</b>		Date Logged <b>July 25 - 28, 2011</b>		Location UTM Zone <b>10 NAD 83</b>	
Drilling Type <b>Air Rotary</b>	T.D. <b>395 m</b>	Geophysical Logger <b>Electrolog Services Inc</b>		Easting (m) <b>363,878.02</b>	Northing (m) <b>5,486,940.71</b>
Hole Size <b>6"</b>	Angle <b>-90</b>	Date Logged <b>August 3, 2011</b>		Elevation (m) <b>93.99</b>	
Depth (m)	Lithology Graphic	Gamma API		Density g/cc	
		0	150	1.0	3.0
Lithology Description	Lithology Description	Caliper mm		Resistance Ohm	
		50	250	0.0	1000.0
		SP mV			
		-2500	2500		
		Drill Hole Construction		Comments	
					Depth (m)



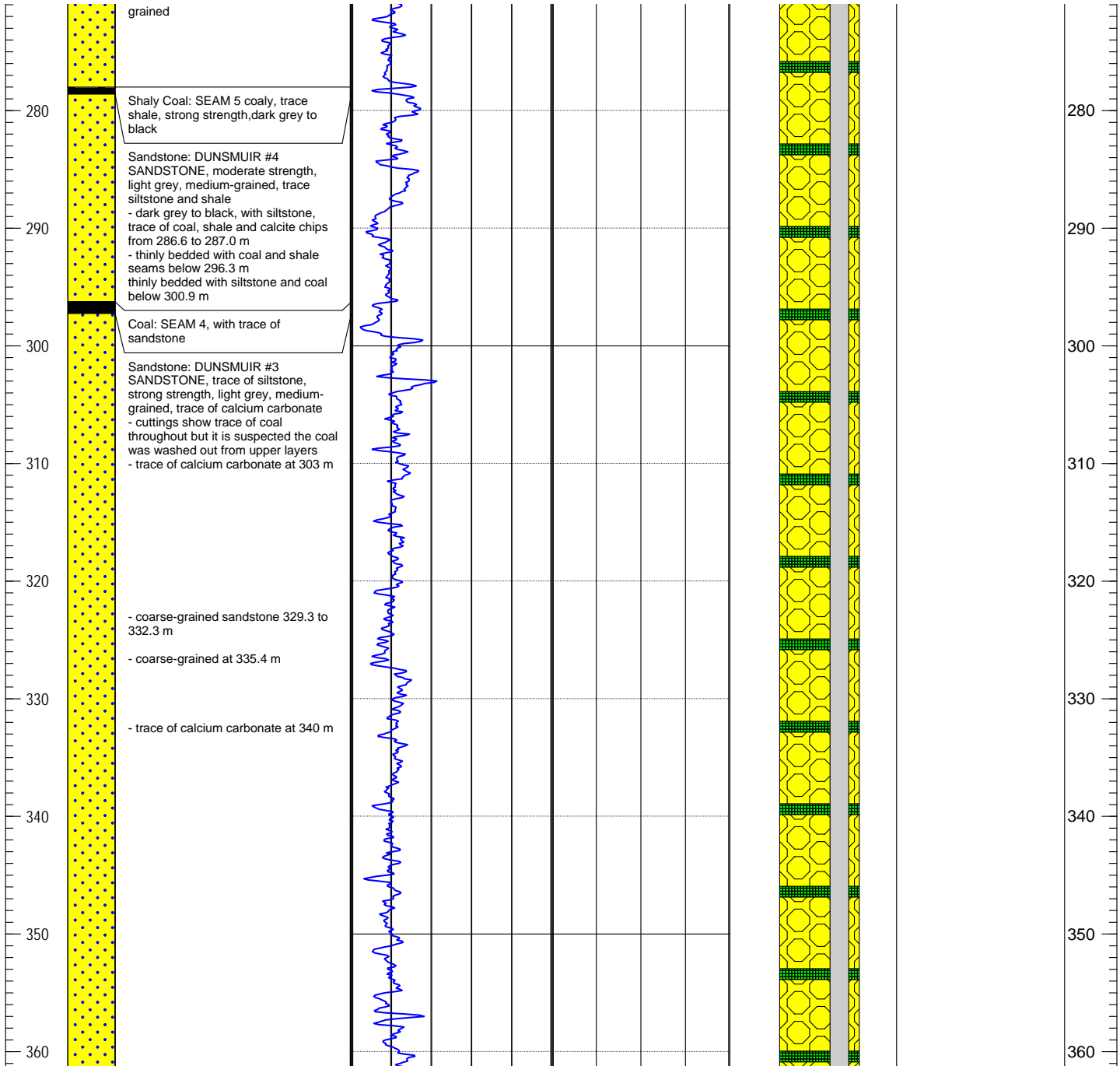
Compliance Coal Corp.		
Raven Coal Project		
Hydrogeological Drilling Program, 2011		
December 13, 2011	Scale: 1:500	FIGURE A-2b

Drilled By <b>Drillwell Enterprises</b>		Cuttings/Core Description By <b>R. McLean</b>		DH ID <b>RAV-11-02b</b>			
Date Completed <b>July 28, 2011</b>		Date Logged <b>July 25 - 28, 2011</b>		Location UTM Zone <b>10 NAD 83</b>			
Drilling Type <b>Air Rotary</b>	T.D. <b>395 m</b>	Geophysical Logger <b>Electrolog Services Inc</b>		Easting (m) <b>363,878.02</b>	Northing (m) <b>5,486,940.71</b>		
Hole Size <b>6"</b>	Angle <b>-90</b>	Date Logged <b>August 3, 2011</b>		Elevation (m) <b>93.99</b>			
Depth (m)	Lithology Graphic	Lithology Description	Gamma API	Density	Drill Hole Construction	Comments	Depth (m)
			0 150	1.0 g/cc 3.0			
			Caliper mm	Resistance			
			50 250	0.0 Ohm 1000.0			
			SP mV				
			-2500 2500				



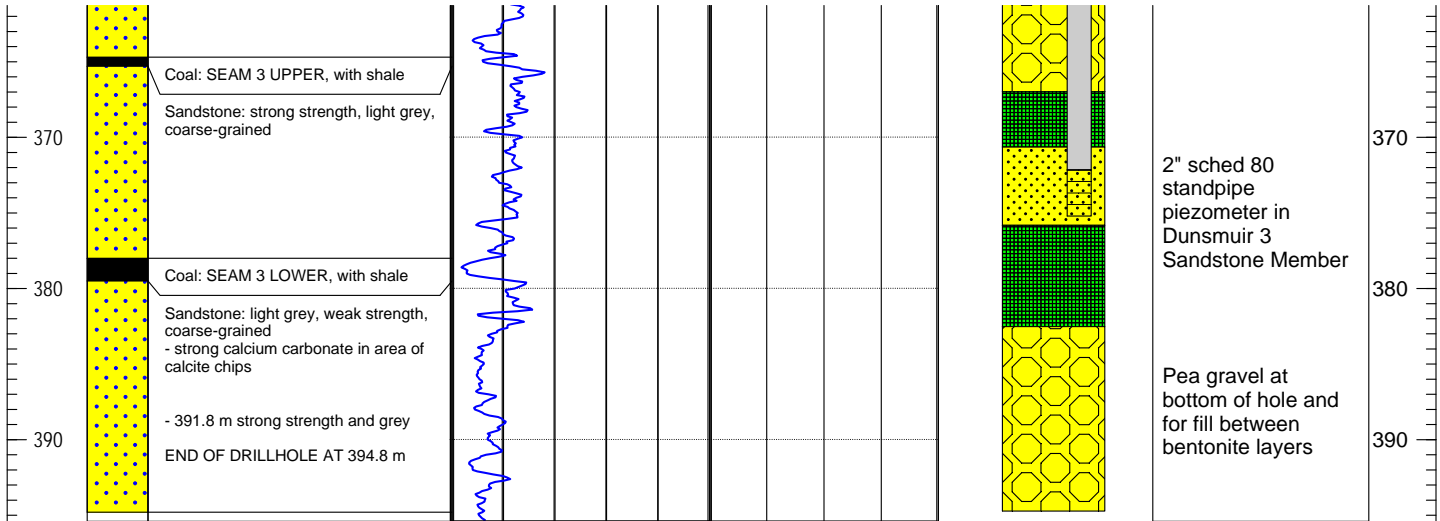
Compliance Coal Corp.		
Raven Coal Project		
Hydrogeological Drilling Program, 2011		
December 13, 2011	Scale: 1:500	FIGURE A-2b

Drilled By <b>Drillwell Enterprises</b>		Cuttings/Core Description By <b>R. McLean</b>		DH ID <b>RAV-11-02b</b>			
Date Completed <b>July 28, 2011</b>		Date Logged <b>July 25 - 28, 2011</b>		Location UTM Zone <b>10 NAD 83</b>			
Drilling Type <b>Air Rotary</b>	T.D. <b>395 m</b>	Geophysical Logger <b>Electrolog Services Inc</b>		Easting (m) <b>363,878.02</b>	Northing (m) <b>5,486,940.71</b>		
Hole Size <b>6"</b>	Angle <b>-90</b>	Date Logged <b>August 3, 2011</b>		Elevation (m) <b>93.99</b>			
Depth (m)	Lithology Graphic	Lithology Description	Gamma API	Density g/cc	Drill Hole Construction	Comments	Depth (m)
			0 150	1.0 3.0			
			Caliper mm	Resistance			
			50 250	0.0 Ohm 1000.0			
			SP mV				
			-2500 2500				



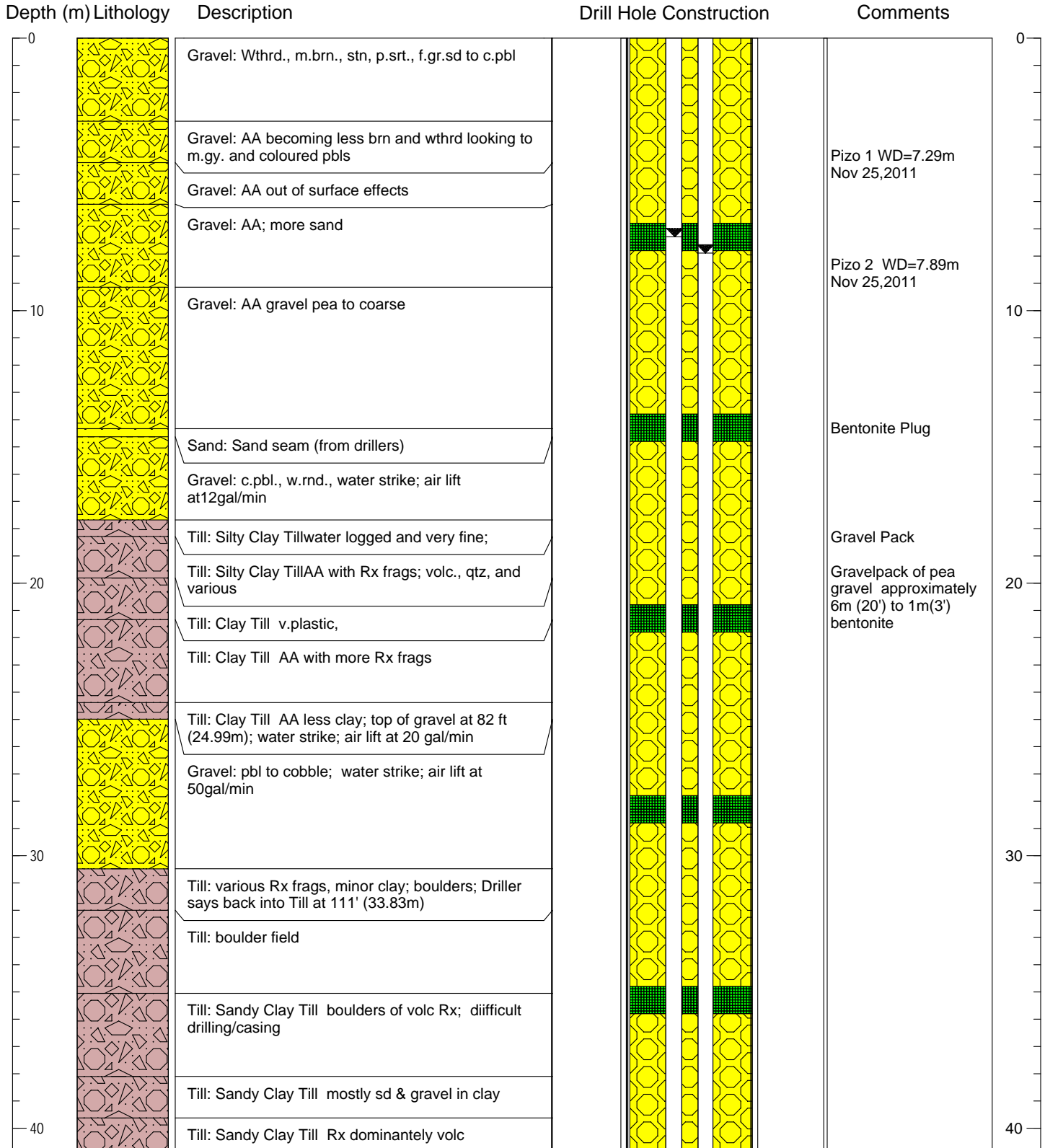
Compliance Coal Corp.		
Raven Coal Project		
Hydrogeological Drilling Program, 2011		
December 13, 2011	Scale: 1:500	FIGURE A-2b

Drilled By <b>Drillwell Enterprises</b>		Cuttings/Core Description By <b>R. McLean</b>		DH ID <b>RAV-11-02b</b>			
Date Completed <b>July 28, 2011</b>		Date Logged <b>July 25 - 28, 2011</b>		Location UTM Zone <b>10 NAD 83</b>			
Drilling Type <b>Air Rotary</b>	T.D. <b>395 m</b>	Geophysical Logger <b>Electrolog Services Inc</b>		Easting (m) <b>363,878.02</b>	Northing (m) <b>5,486,940.71</b>		
Hole Size <b>6"</b>	Angle <b>-90</b>	Date Logged <b>August 3, 2011</b>		Elevation (m) <b>93.99</b>			
Depth (m)	Lithology Graphic	Lithology Description	Gamma API	Density g/cc	Drill Hole Construction	Comments	Depth (m)
			0 150	1.0 3.0			
			Caliper mm	Resistance Ohm			
50 250	0.0 1000.0						
-2500 2500							



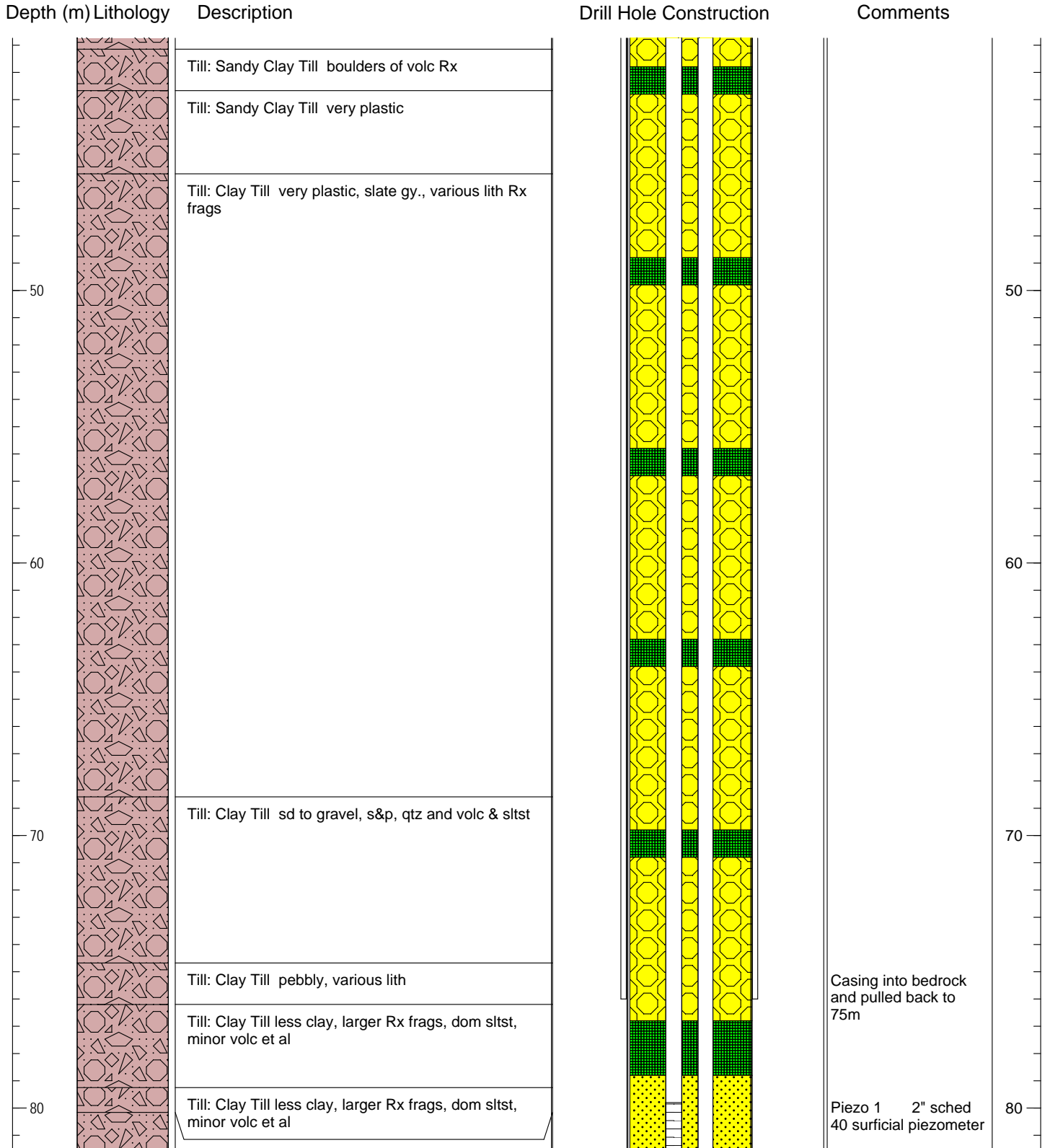
Compliance Coal Corp.		
Raven Coal Project		
Hydrogeological Drilling Program, 2011		
December 13, 2011	Scale: 1:500	FIGURE A-2b

Drilled By	<b>Drillwell Enterprises</b>	Cuttings/Core Description By	<b>ORC</b>	DH ID	<b>RAV-11-03</b>		
Date Completed	<b>August 26, 2011</b>	Date Logged	<b>August 26, 2011</b>	Location UTM Zone			<b>10 NAD 83</b>
Drilling Type	<b>Air Rotary</b>	Geophysical Logger	<b>NA</b>	Easting (m)	Northing (m)	Elevation (m)	
Hole Size/Angle	<b>6" / -90</b>	Date Logged	<b>NA</b>	<b>368,443.62</b>	<b>5,483,142.72</b>	<b>39.18</b>	



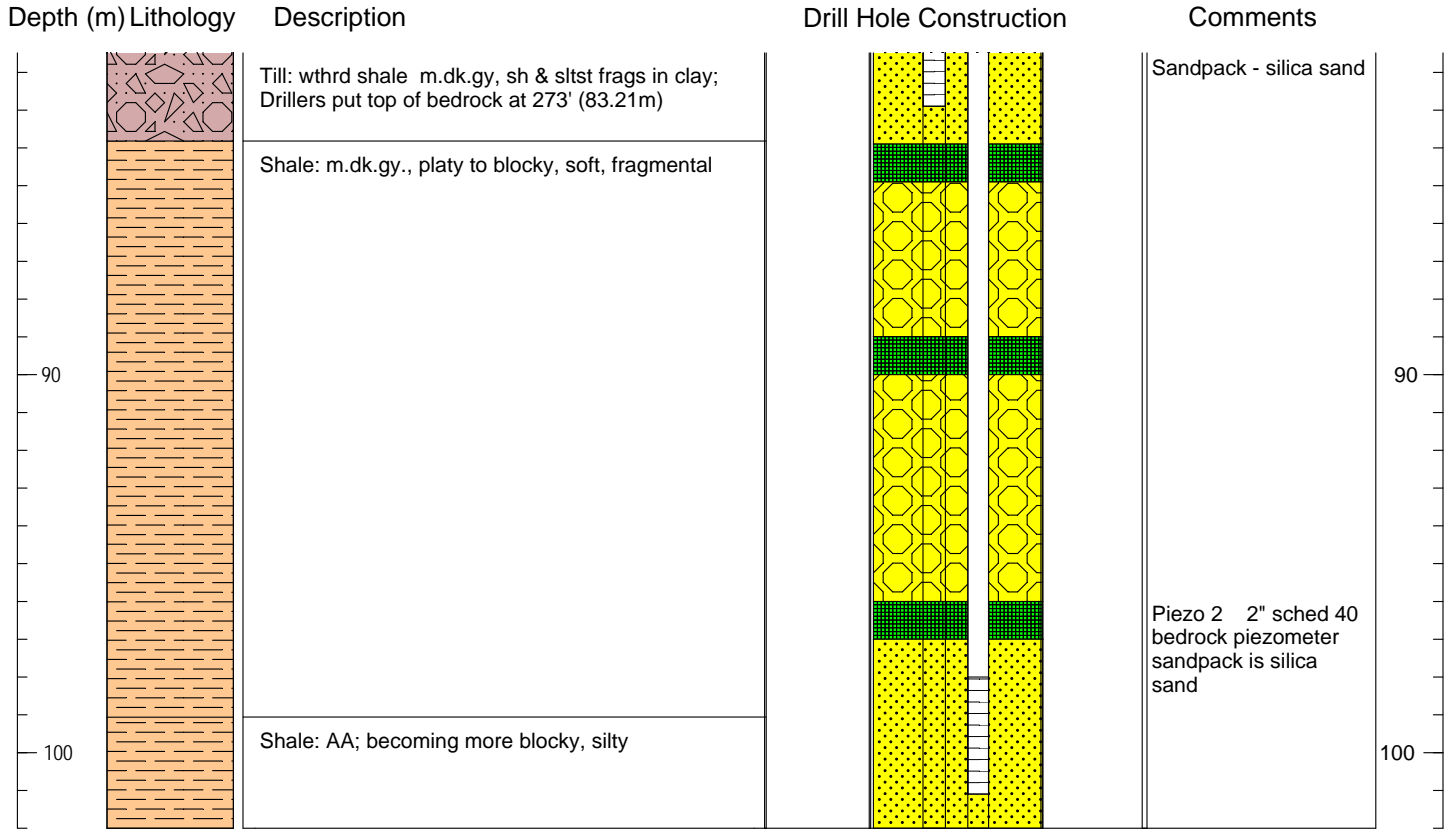
Compliance Coal Corporation		
RAVEN PROJECT		
HYDROGEOLOGICAL DRILLING PROGRAM, 2011		
December 13, 2011	Scale: 1:200	FIGURE A-3

Drilled By	<b>Drillwell Enterprises</b>	Cuttings/Core Description By	<b>ORC</b>	DH ID	<b>RAV-11-03</b>		
Date Completed	<b>August 26, 2011</b>	Date Logged	<b>August 26, 2011</b>	Location UTM Zone			<b>10 NAD 83</b>
Drilling Type	<b>Air Rotary</b>	Geophysical Logger	<b>NA</b>	Easting (m)	Northing (m)	Elevation (m)	
Hole Size/Angle	<b>6" / -90</b>	Date Logged	<b>NA</b>	<b>368,443.62</b>	<b>5,483,142.72</b>	<b>39.18</b>	



Compliance Coal Corporation		
RAVEN PROJECT		
HYDROGEOLOGICAL DRILLING PROGRAM, 2011		
December 13, 2011	Scale: 1:200	FIGURE A-3

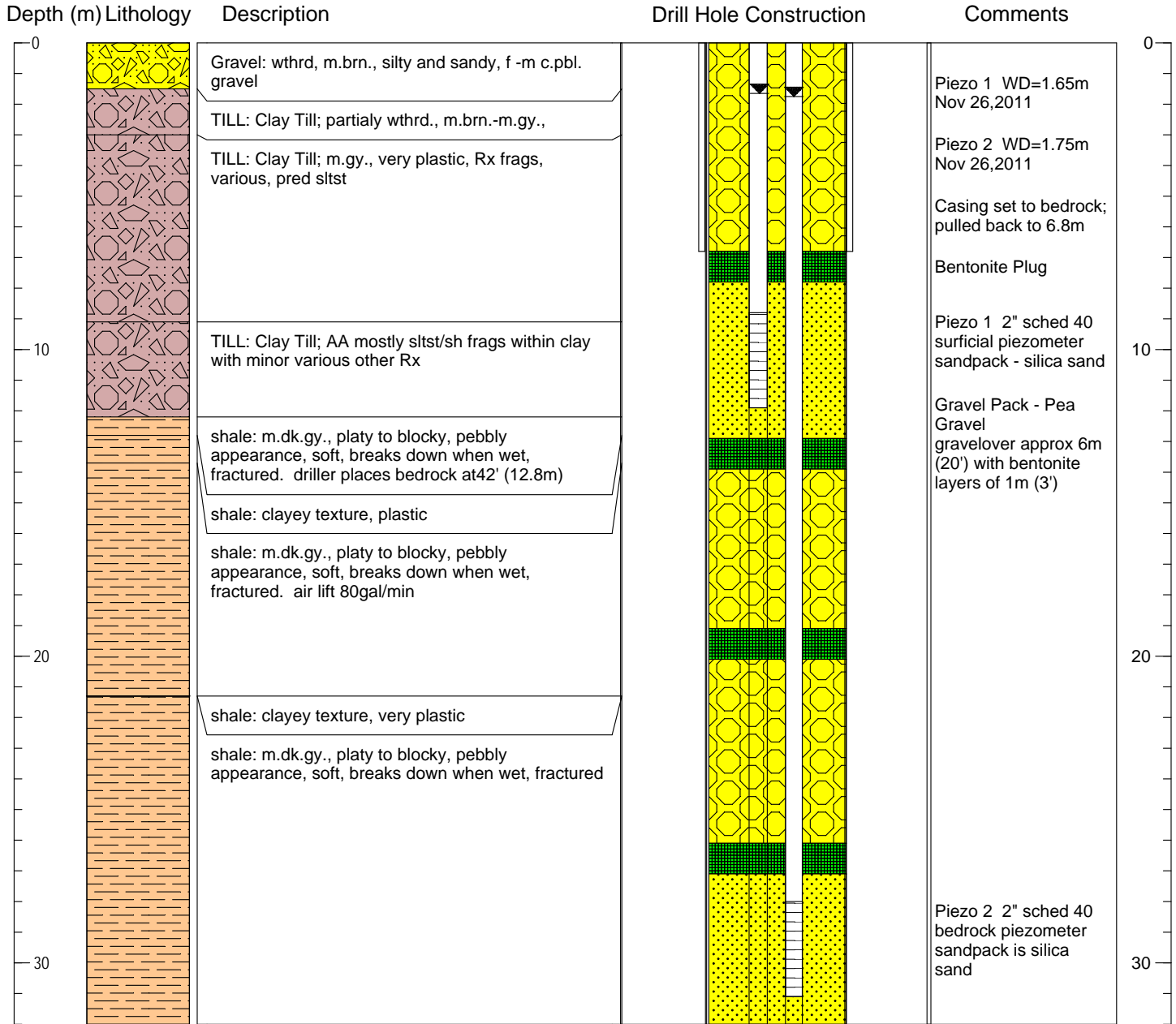
Drilled By	<b>Drillwell Enterprises</b>	Cuttings/Core Description By	<b>ORC</b>	DH ID	<b>RAV-11-03</b>			
Date Completed	<b>August 26, 2011</b>	Date Logged	<b>August 26, 2011</b>	Location UTM Zone				<b>10 NAD 83</b>
Drilling Type	<b>Air Rotary</b>	Geophysical Logger	<b>NA</b>	Easting (m)	Northing (m)	Elevation (m)		
Hole Size/Angle	<b>6" / -90</b>	Date Logged	<b>NA</b>	<b>368,443.62</b>	<b>5,483,142.72</b>	<b>39.18</b>		



Compliance Coal Corporation		
RAVEN PROJECT		
HYDROGEOLOGICAL DRILLING PROGRAM, 2011		
December 13, 2011	Scale: 1:200	FIGURE A-3

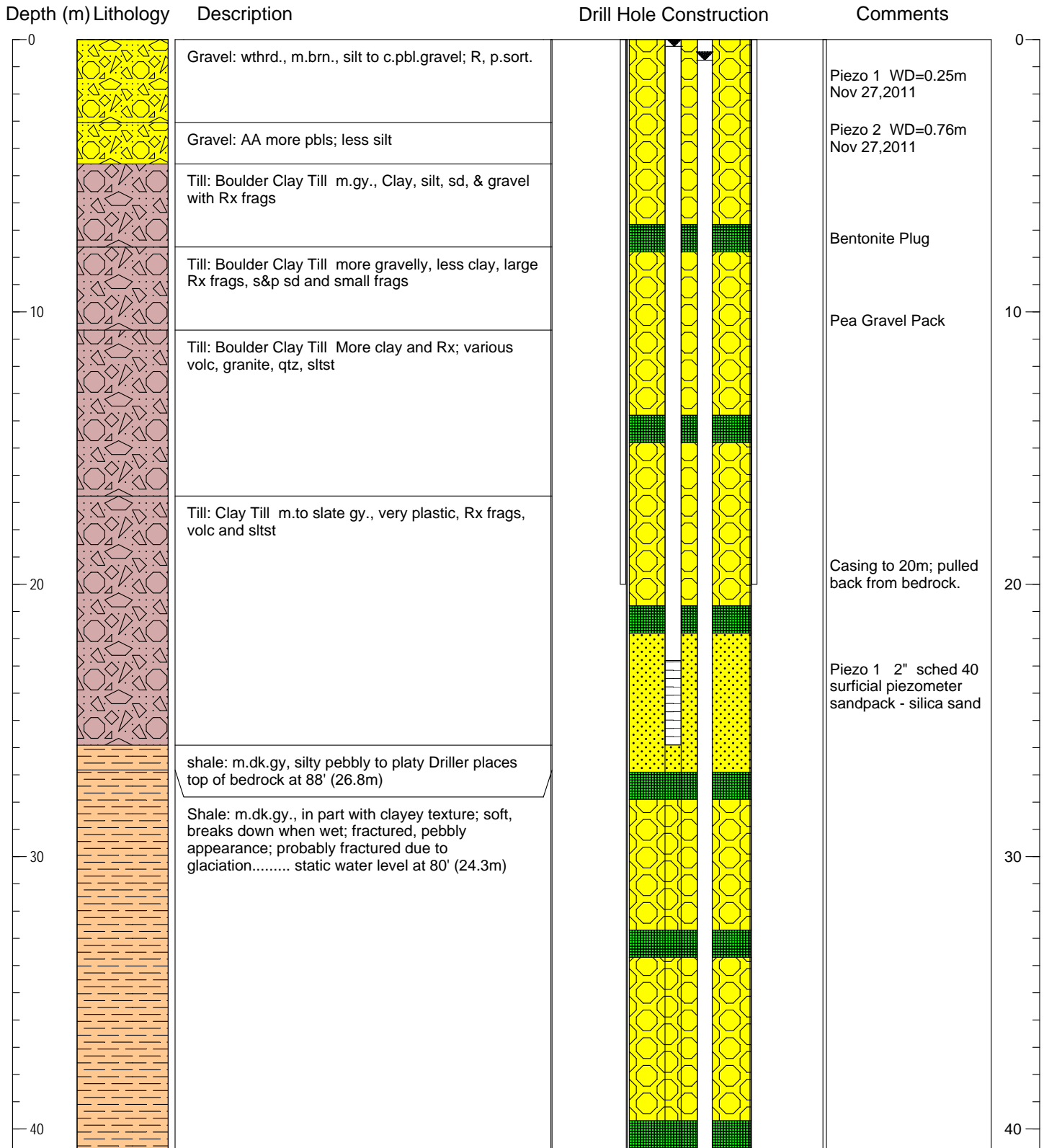


Drilled By	<b>Drillwell Enterprises</b>	Cuttings/Core Description By	<b>ORC</b>	DH ID	<b>RAV-11-04</b>		
Date Completed	<b>August 31, 2011</b>	Date Logged	<b>August 31, 2011</b>	Location UTM Zone			<b>10 NAD 83</b>
Drilling Type	<b>Air Rotary</b>	Geophysical Logger	<b>NA</b>	Easting (m)	Northing (m)	Elevation (m)	
Hole Size/Angle	<b>6" / -90</b>	Date Logged	<b>NA</b>	<b>366319.3822</b>	<b>5485431.988</b>	<b>59.5061</b>	



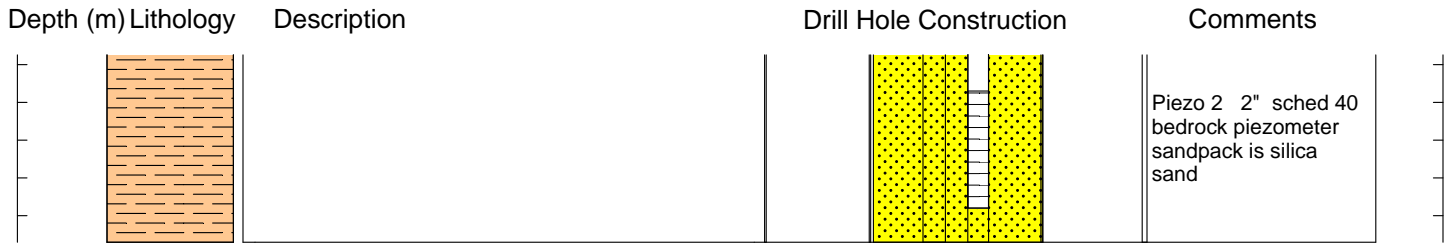
Compliance Coal Corporation		
RAVEN PROJECT		
HYDROGEOLOGICAL DRILLING - MONITORING WELL		
December 13, 2011	Scale: 1:200	FIGURE A-4

Drilled By	<b>Drillwell Enterprises</b>	Cuttings/Core Description By	<b>ORC</b>	DH ID	<b>RAV-11-05</b>		
Date Completed	<b>August 29, 2011</b>	Date Logged	<b>August 29, 2011</b>	Location UTM Zone			<b>10 NAD 83</b>
Drilling Type	<b>Air Rotary</b>	Geophysical Logger	<b>NA</b>	Easting (m)	Northing (m)	Elevation (m)	
Hole Size/Angle	<b>6" / -90</b>	Date Logged	<b>NA</b>	<b>367,346.67</b>	<b>5,483,655.20</b>	<b>44.08</b>	



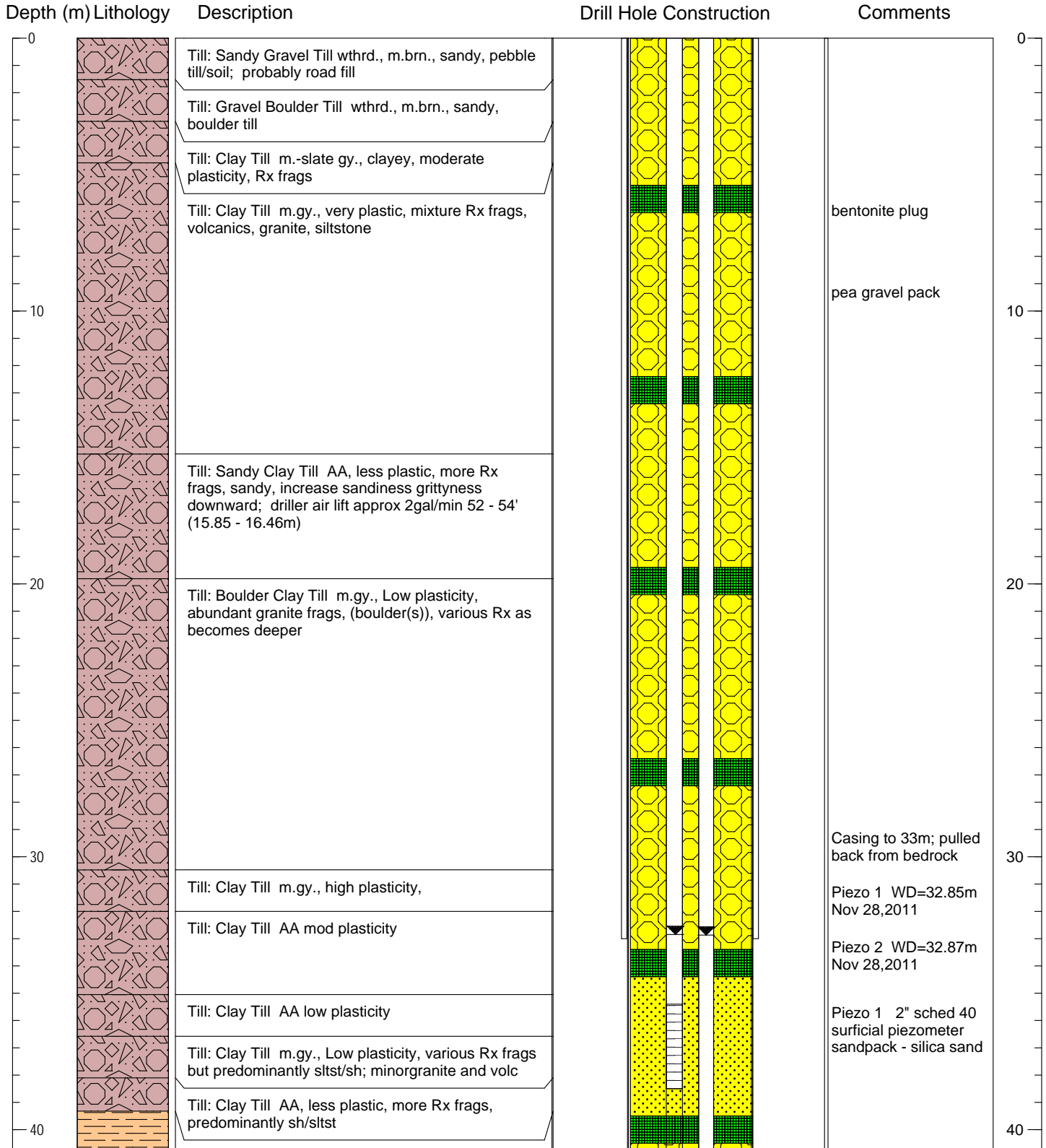
Compliance Coal Corporation		
RAVEN PROJECT		
HYDROGEOLOGICAL DRILLING PROGRAM 2011		
December 13, 2011	Scale: 1:200	FIGURE A-5

Drilled By	<b>Drillwell Enterprises</b>	Cuttings/Core Description By	<b>ORC</b>	DH ID	<b>RAV-11-05</b>			
Date Completed	<b>August 29, 2011</b>	Date Logged	<b>August 29, 2011</b>	Location UTM Zone				<b>10 NAD 83</b>
Drilling Type	<b>Air Rotary</b>	Geophysical Logger	<b>NA</b>	<b>Easting (m)</b>	<b>Northing (m)</b>	<b>Elevation (m)</b>		
Hole Size/Angle	<b>6" / -90</b>	Date Logged	<b>NA</b>	<b>367,346.67</b>	<b>5,483,655.20</b>	<b>44.08</b>		



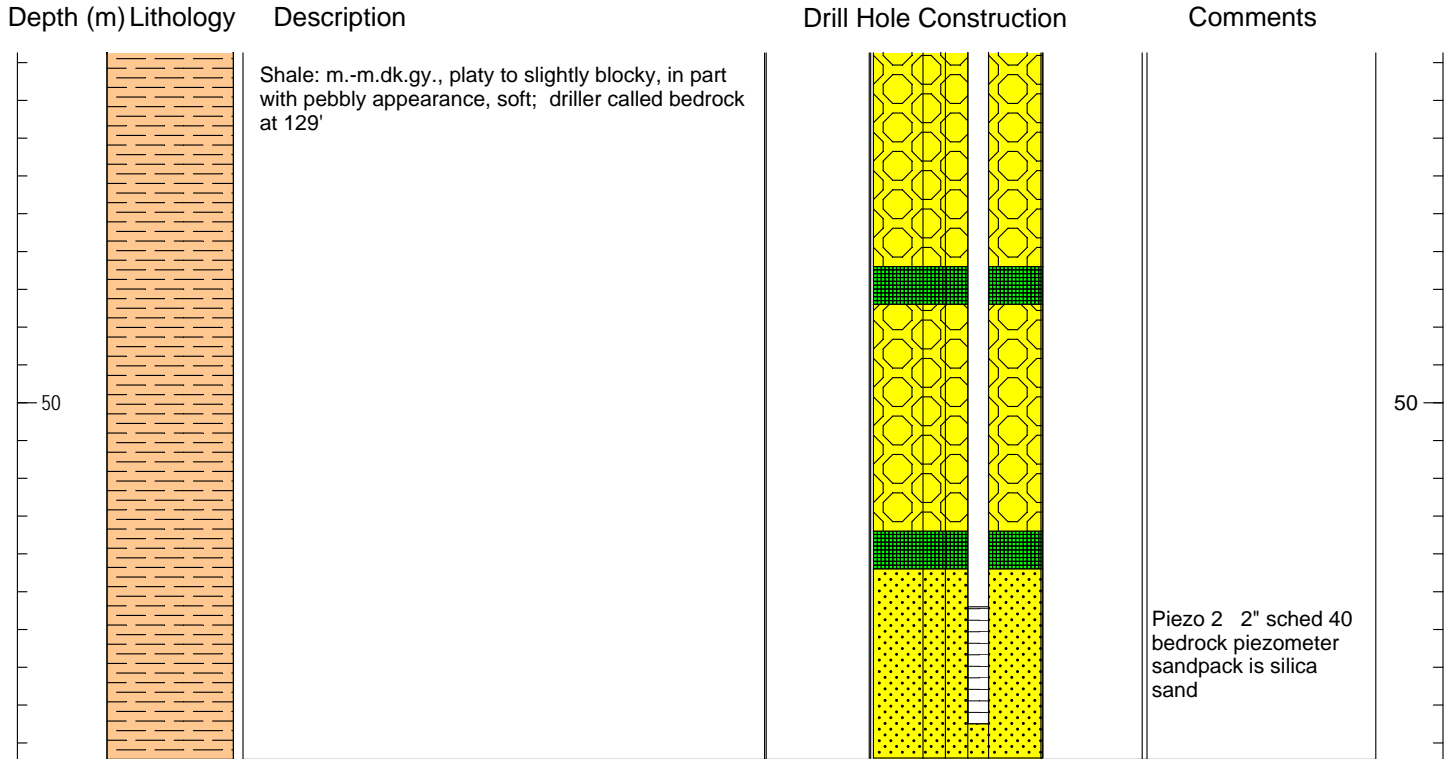
Compliance Coal Corporation		
RAVEN PROJECT		
HYDROGEOLOGICAL DRILLING PROGRAM 2011		
December 13, 2011	Scale: 1:200	FIGURE A-5

Drilled By	<b>Drillwell Enterprises</b>	Cuttings/Core Description By	<b>ORC</b>	DH ID	<b>RAV-11-06</b>		
Date Completed	<b>September 6, 2011</b>	Date Logged	<b>September 2, 2011</b>	Location UTM Zone			<b>10 NAD 83</b>
Drilling Type	<b>Air Rotary</b>	Geophysical Logger	<b>NA</b>	Easting (m)	Northing (m)	Elevation (m)	
Hole Size/Angle	<b>6" / -90</b>	Date Logged	<b>NA</b>	<b>364,311.26</b>	<b>5,488,815.03</b>	<b>82.28</b>	



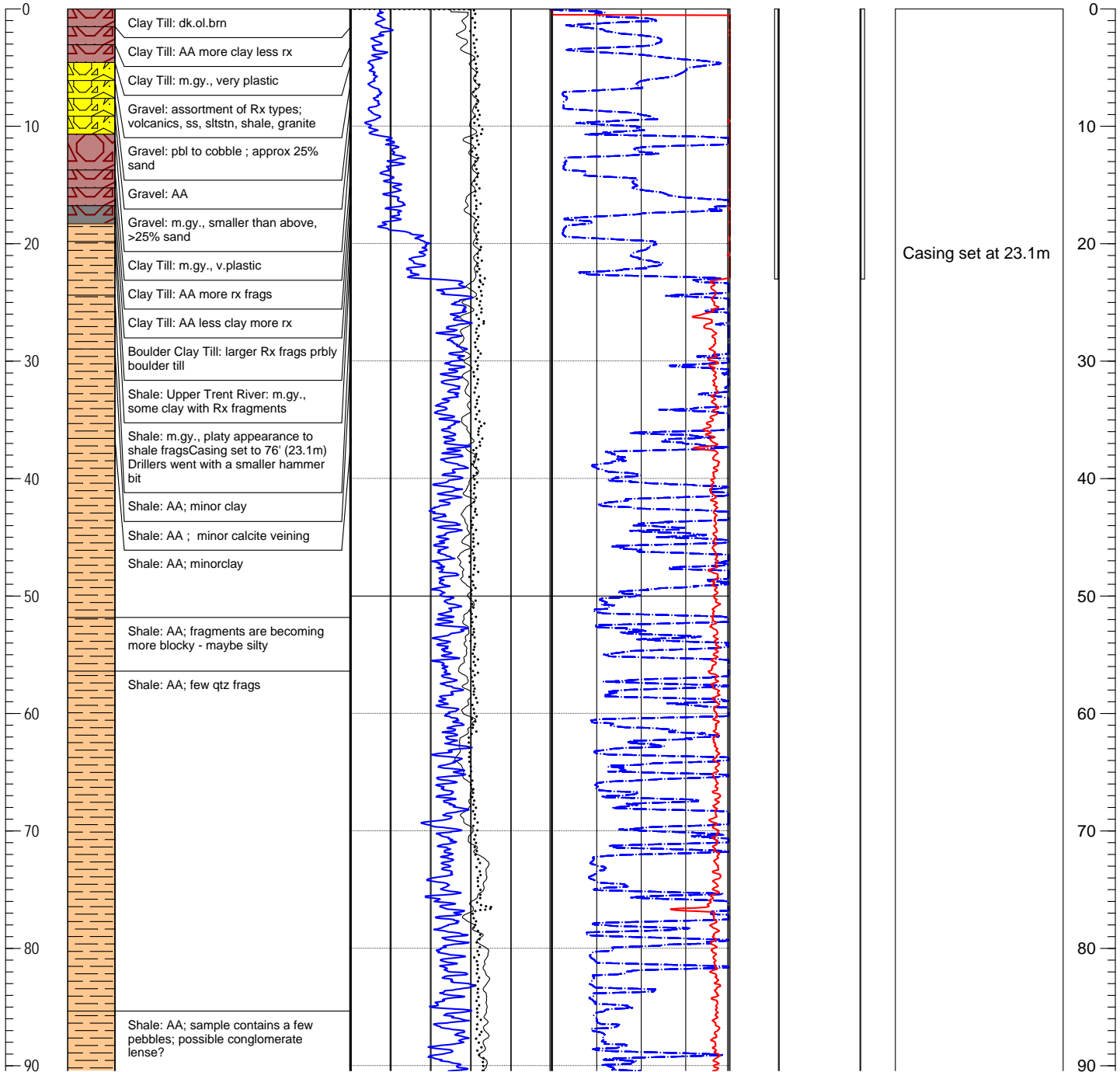
Compliance Coal Corp		
RAVEN PROJECT		
HYDROGEOLOGICAL DRILLING PROGRAM 2011		
December 13, 2011	Scale: 1:200	FIGURE A-6

Drilled By	<b>Drillwell Enterprises</b>	Cuttings/Core Description By	<b>ORC</b>	DH ID	<b>RAV-11-06</b>		
Date Completed	<b>September 6, 2011</b>	Date Logged	<b>September 2, 2011</b>	Location UTM Zone <b>10 NAD 83</b>			
Drilling Type	<b>Air Rotary</b>	Geophysical Logger	<b>NA</b>	<b>Easting (m)</b>	<b>Northing (m)</b>	<b>Elevation (m)</b>	
Hole Size/Angle	<b>6" / -90</b>	Date Logged	<b>NA</b>	<b>364,311.26</b>	<b>5,488,815.03</b>	<b>82.28</b>	



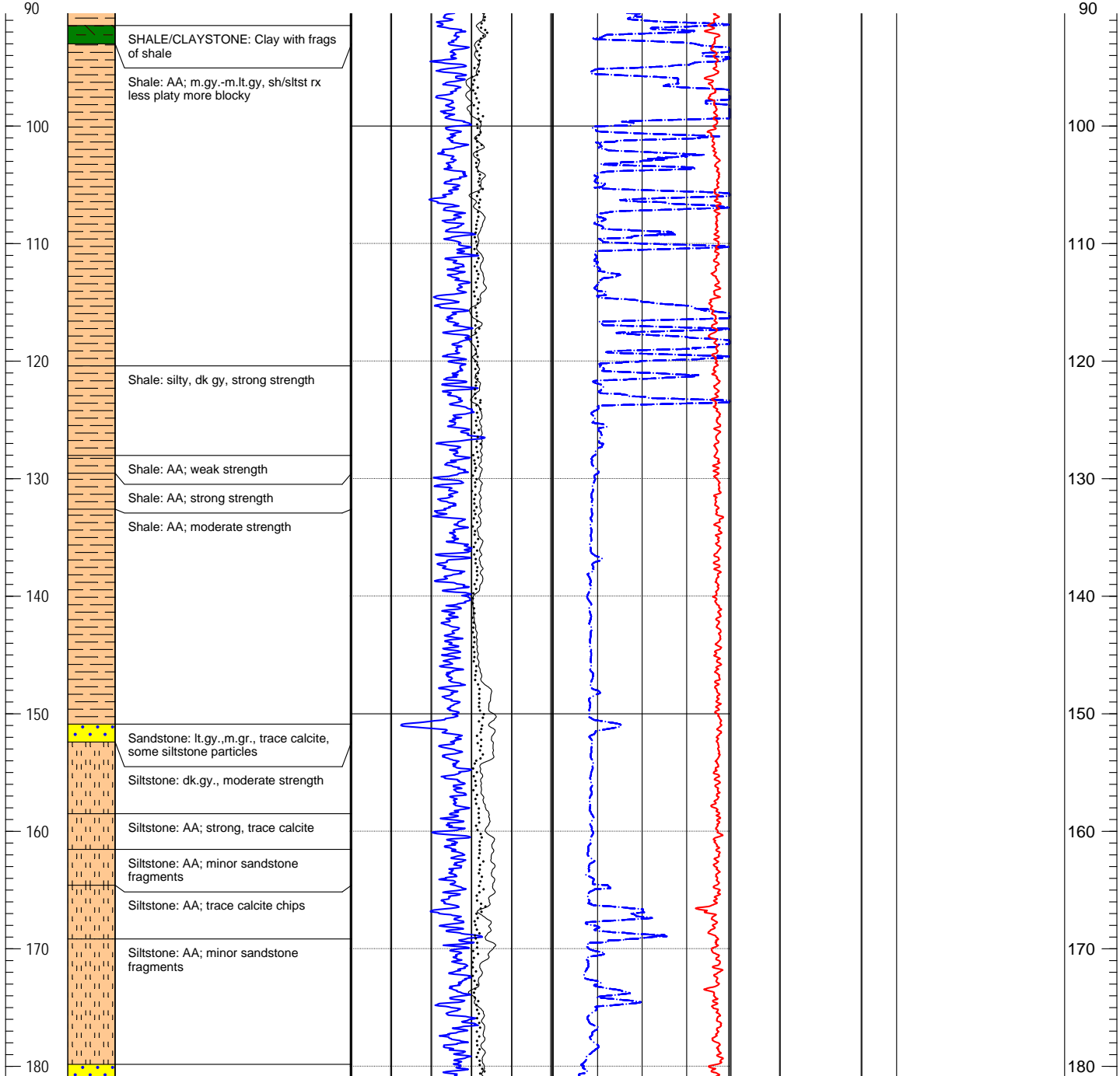
Compliance Coal Corp		
RAVEN PROJECT		
HYDROGEOLOGICAL DRILLING PROGRAM 2011		
December 13, 2011	Scale: 1:200	FIGURE A-6

Drilled By <b>Drillwell Enterprises</b>		Cuttings/Core Description By <b>R.McLean &amp; ORC</b>		DH ID <b>RAV-11-07a</b>			
Date Completed <b>August 11, 2011</b>		Date Logged <b>August 11, 2011</b>		Location UTM Zone <b>10 NAD 83</b>			
Drilling Type <b>Air Rotary</b>	T.D. <b>352.6m</b>	Geophysical Logger <b>Electrolog Services Inc</b>		Easting (m) <b>365,828.94</b>	Northing (m) <b>5485086.78422</b>		
Hole Size <b>6"</b>	Angle <b>-90</b>	Date Logged <b>August 11, 2011</b>		Elevation (m) <b>61.83</b>			
Depth (m)	Lithology Graphic	Lithology Description	Gamma API	Density	Drill Hole Construction	Comments	Depth (m)
			0 150	1.0 g/cc 3.0			
			Caliper mm	Resistance			
			50 250	0.0 Ohm 1000.0			
			SP mV				
			-1200 -800				



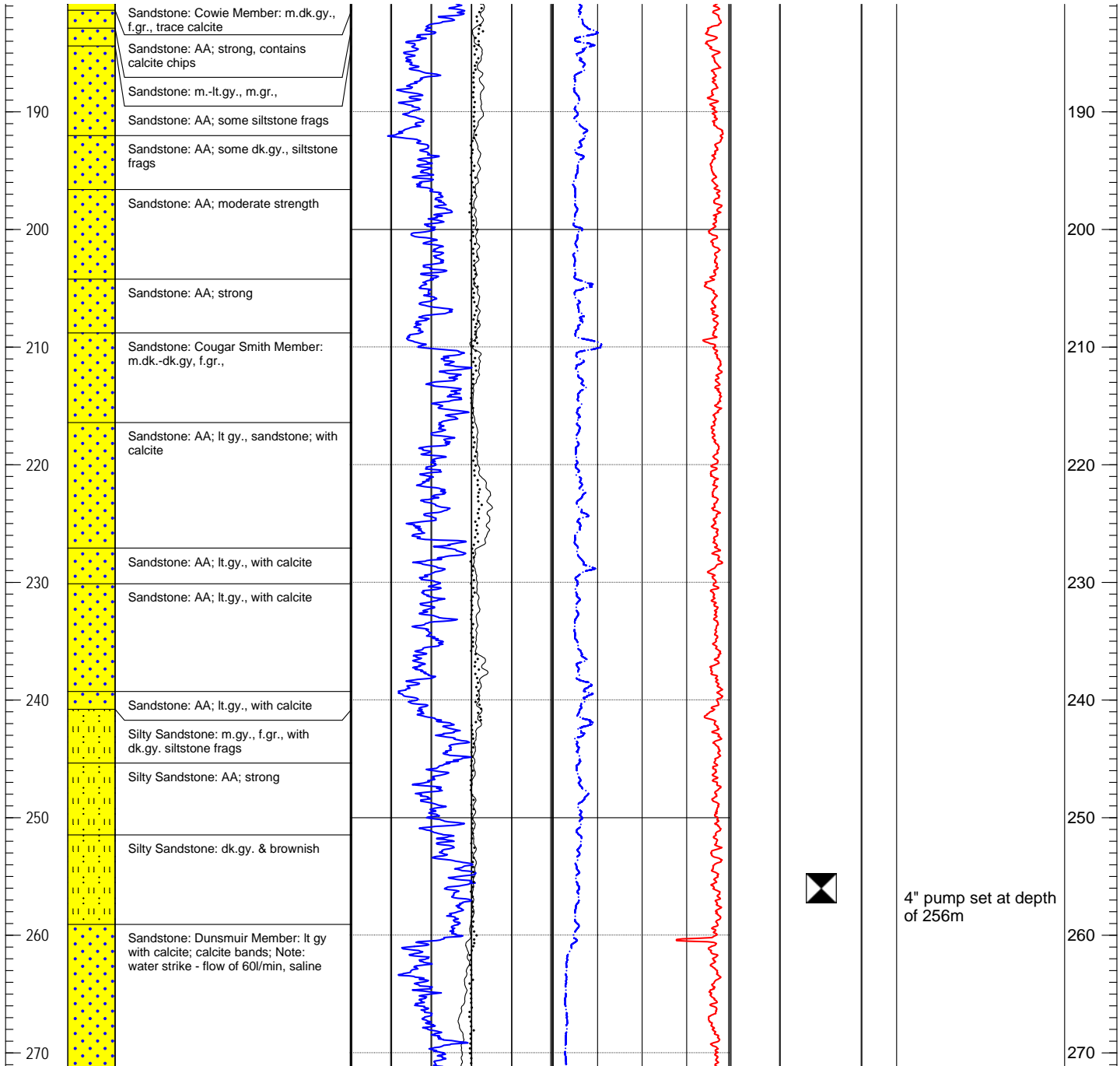
Compliance Coal Corp		
Raven Project		
Hydrogeological Drilling Program, 2011		
Jan 6, 2012	Scale: 1:500	Figure A-7a

Drilled By <b>Drillwell Enterprises</b>			Cuttings/Core Description By <b>R.McLean &amp; ORC</b>			DH ID <b>RAV-11-07a</b>			
Date Completed <b>August 11, 2011</b>			Date Logged <b>August 11, 2011</b>			Location UTM Zone <b>10 NAD 83</b>			
Drilling Type <b>Air Rotary</b>		T.D. <b>352.6m</b>	Geophysical Logger <b>Electrolog Services Inc</b>			Easting (m) <b>365,828.94</b>	Northing (m) <b>5485086.78422</b>	Elevation (m) <b>61.83</b>	
Hole Size <b>6"</b>		Angle <b>-90</b>	Date Logged <b>August 11, 2011</b>						
Depth (m)	Lithology Graphic	Lithology Description	Gamma API	150	Density	3.0	Drill Hole Construction	Comments	Depth (m)
			0		1.0	g/cc			
			Caliper mm	250	Resistance	1000.0			
			50		0.0	Ohm			
			SP mV	-800					
			-1200						



Compliance Coal Corp		
Raven Project		
Hydrogeological Drilling Program, 2011		
Jan 6, 2012	Scale: 1:500	Figure A-7a

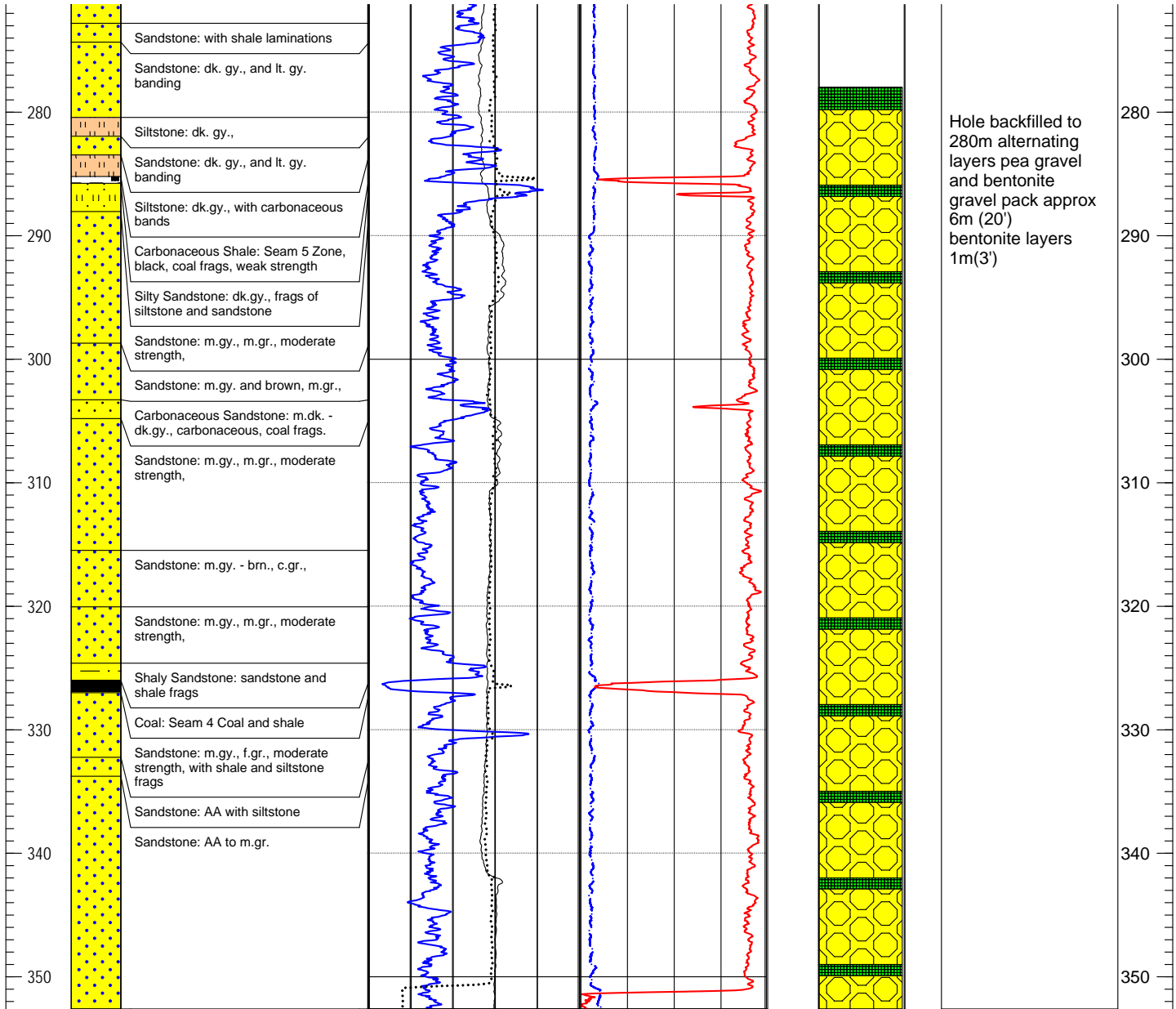
Drilled By <b>Drillwell Enterprises</b>			Cuttings/Core Description By <b>R.McLean &amp; ORC</b>			DH ID <b>RAV-11-07a</b>				
Date Completed <b>August 11, 2011</b>			Date Logged <b>August 11, 2011</b>			Location UTM Zone <b>10 NAD 83</b>				
Drilling Type <b>Air Rotary</b>		T.D. <b>352.6m</b>	Geophysical Logger <b>Electrolog Services Inc</b>			Easting (m) <b>365,828.94</b>	Northing (m) <b>5485086.78422</b>	Elevation (m) <b>61.83</b>		
Hole Size <b>6"</b>		Angle <b>-90</b>	Date Logged <b>August 11, 2011</b>							
Depth (m)	Lithology Graphic	Lithology Description	Gamma API		Density			Drill Hole Construction	Comments	Depth (m)
			0	150	1.0	g/cc	3.0			
			Caliper mm		Resistance					
			50	250	0.0	Ohm	1000.0			
			SP mV							
			-1200	-800						



Compliance Coal Corp		
Raven Project		
Hydrogeological Drilling Program, 2011		
Jan 6, 2012	Scale: 1:500	Figure A-7a

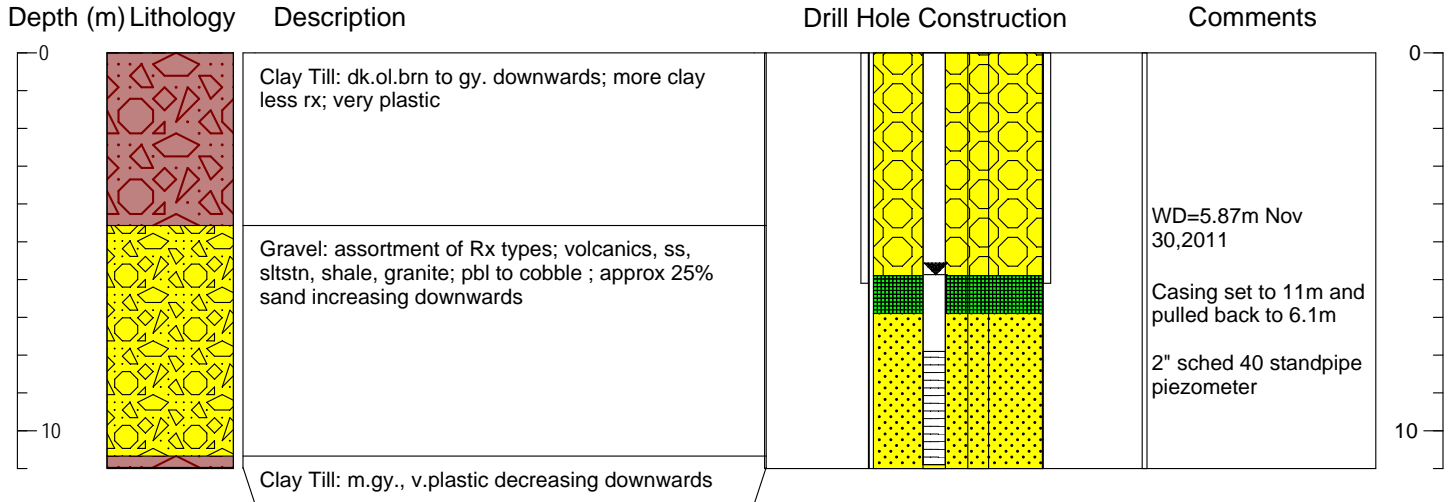


Drilled By <b>Drillwell Enterprises</b>		Cuttings/Core Description By <b>R.McLean &amp; ORC</b>		DH ID <b>RAV-11-07a</b>	
Date Completed <b>August 11, 2011</b>		Date Logged <b>August 11, 2011</b>		Location UTM Zone <b>10 NAD 83</b>	
Drilling Type <b>Air Rotary</b>	T.D. <b>352.6m</b>	Geophysical Logger <b>Electrolog Services Inc</b>		Easting (m) <b>365,828.94</b>	Northing (m) <b>5485086.78422</b>
Hole Size <b>6"</b>	Angle <b>-90</b>	Date Logged <b>August 11, 2011</b>		Elevation (m) <b>61.83</b>	
Depth (m)	Lithology Graphic	Gamma API		Density g/cc	
		0	150	1.0	3.0
Lithology Description	Lithology Description	Caliper mm		Resistance Ohm	
		50	250	0.0	1000.0
		SP mV			
		-1200	-800		
		Drill Hole Construction		Comments	
					Depth (m)



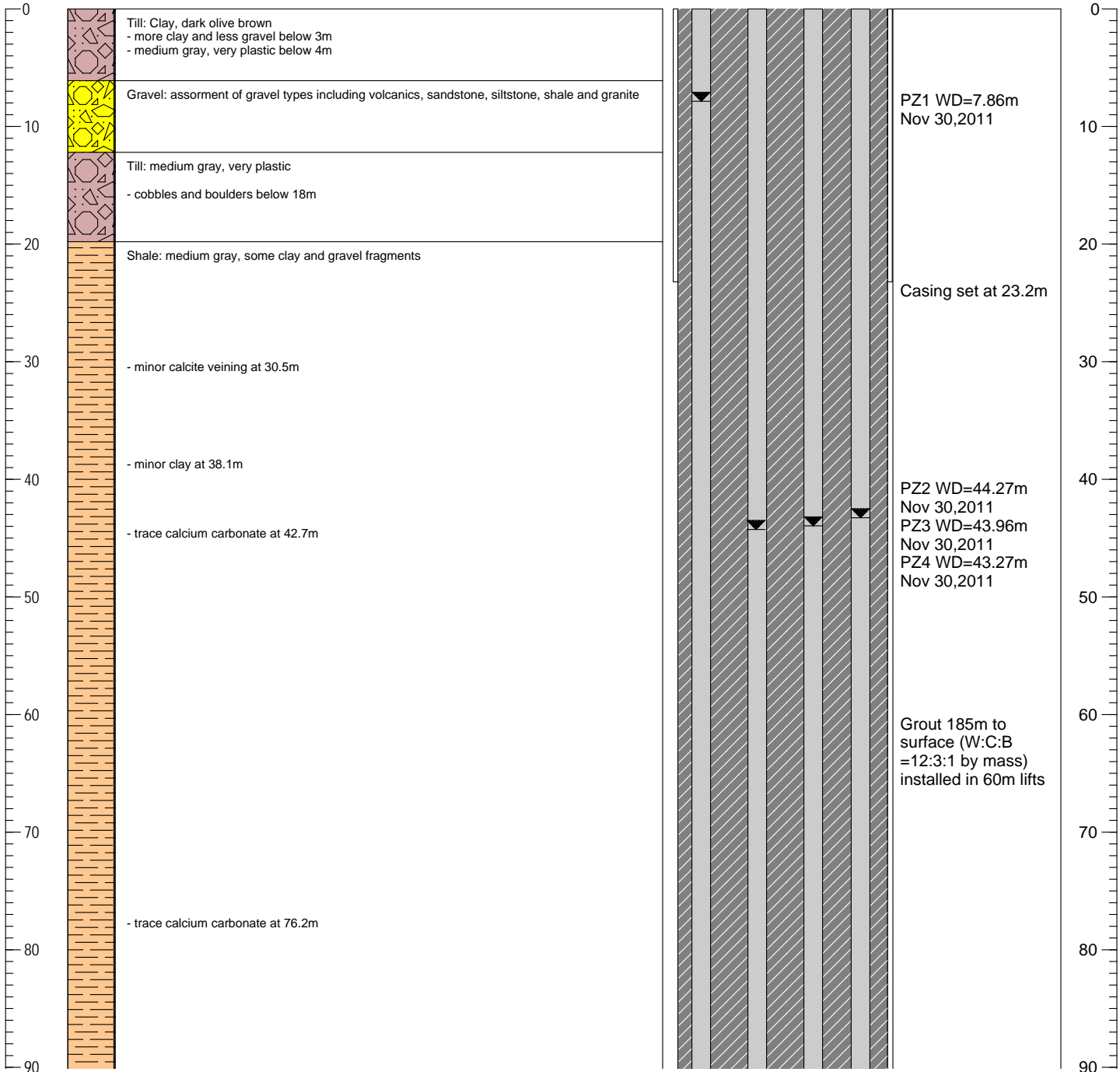
Compliance Coal Corp		
Raven Project		
Hydrogeological Drilling Program, 2011		
Jan 6, 2012	Scale: 1:500	Figure A-7a

Drilled By	<b>Drillwell Enterprises</b>	Cuttings/Core Description By	<b>R.McLean</b>	DH ID	<b>RAV-11-07b</b>		
Date Completed	<b>August 12, 2011</b>	Date Logged	<b>August 12, 2011</b>	Location UTM Zone			<b>10 NAD 83</b>
Drilling Type	<b>Air Rotary</b>	Geophysical Logger	<b>NA</b>	Easting (m)	Northing (m)	Elevation (m)	
Hole Size/Angle	<b>6" / -90</b>	Date Logged	<b>NA</b>	<b>365,820.37</b>	<b>5,485,090.01</b>	<b>61.89</b>	



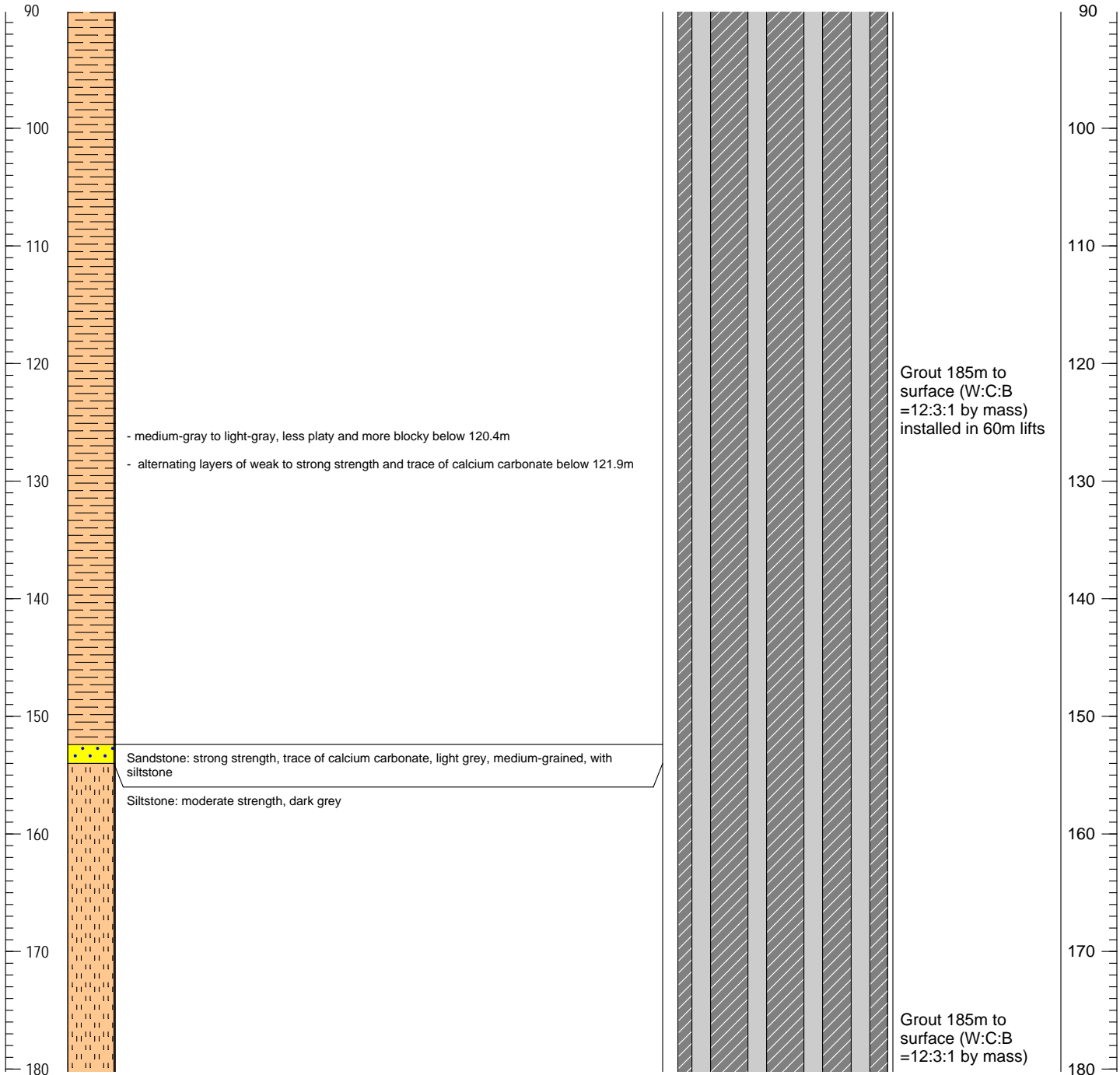
Compliance Coal Corp		
Raven Project		
Hydrogeological Drilling Program, 2011		
December 13, 2011	Scale: 1:200	Figure A-7b

Drilled By <b>Drillwell Enterprises</b>		Cuttings/Core Description By <b>OC/RM</b>		DH ID <b>RAV-11-07c</b>	
Date Completed <b>August 25, 2011</b>		Date Logged <b>August 15-25, 2011</b>		Location UTM Zone <b>10 NAD 83</b>	
Drilling Type <b>Air Rotary</b>	T.D. <b>275.9 m</b>	Geophysical Logger		Easting (m)	Northing (m)
Hole Size <b>12"</b>	Angle <b>-90</b>	Date Logged		<b>365822.73 m</b>	<b>5485088.27 m</b>
Lithology Description			Drill Hole Construction		Comments
Depth (m)	Lithology Graphic				Depth (m)



Compliance Coal Corp.		
Raven Coal Project		
Hydrogeological Drilling Program, 2011		
January 6, 2012	Scale: 1:500	Figure A-7c

Drilled By <b>Drillwell Enterprises</b>		Cuttings/Core Description By <b>OC/RM</b>		DH ID <b>RAV-11-07c</b>	
Date Completed <b>August 25, 2011</b>		Date Logged <b>August 15-25, 2011</b>		Location UTM Zone <b>10 NAD 83</b>	
Drilling Type <b>Air Rotary</b>	T.D. <b>275.9 m</b>	Geophysical Logger		Easting (m)	Northing (m)
Hole Size <b>12"</b>	Angle <b>-90</b>	Date Logged		<b>365822.73 m</b>	<b>5485088.27 m</b>
Lithology Description			Drill Hole Construction		Comments
Depth (m)	Lithology Graphic				Depth (m)



Compliance Coal Corp.		
Raven Coal Project		
Hydrogeological Drilling Program, 2011		
January 6, 2012	Scale: 1:500	Figure A-7c



Drilled By <b>Drillwell Enterprises</b>			Cuttings/Core Description By <b>OC/RM</b>			DH ID <b>RAV-11-07c</b>			
Date Completed <b>August 25, 2011</b>			Date Logged <b>August 15-25, 2011</b>			Location UTM Zone <b>10 NAD 83</b>			
Drilling Type <b>Air Rotary</b>		T.D. <b>275.9 m</b>	Geophysical Logger			Easting (m)	Northing (m)	Elevation (m)	
Hole Size <b>12"</b>		Angle <b>-90</b>	Date Logged			<b>365822.73 m</b>	<b>5485088.27 m</b>	<b>61.90 masl</b>	
Depth (m)	Lithology Graphic	Lithology Description				Drill Hole Construction	Comments		Depth (m)



Compliance Coal Corp.		
Raven Coal Project		
Hydrogeological Drilling Program, 2011		
January 6, 2012	Scale: 1:500	Figure A-7c

## **APPENDIX B**

### **Geophysical Logs of 2011 Drill Holes**

## **APPENDIX B-1**

### **Geophysical Logs of Drill Hole RAV-11-01b**



# ELECTROLOG SERVICES INC.

**GAMMA RAY**  
S.P. / RESISTANCE  
DENSITY / CALIPER  
LOG

**FILING #** \_\_\_\_\_ **Company COMPLIANCE COAL CORPORATION**  
**LSD.** \_\_\_\_\_ **Well RAV-11-01B**  
**SEC.** \_\_\_\_\_ **Field RAVEN PROJECT**  
**TWP.** \_\_\_\_\_ **Province BRITISH COLUMBIA**  
**RGE.** \_\_\_\_\_ **Location**  
**W.** \_\_\_\_\_ **LSD.** \_\_\_\_\_ **SEC.** \_\_\_\_\_ **TWP.** \_\_\_\_\_ **OTHER SERVICES**  
**RGE.** \_\_\_\_\_ **W.** \_\_\_\_\_ **DEVIATION SURVEY**

**Permanent Datum GROUND LEVEL** \_\_\_\_\_ **Elevation** \_\_\_\_\_ **K.B.** \_\_\_\_\_  
**Log Measured From GROUND LEVEL** \_\_\_\_\_ **Above Perm. Datum** \_\_\_\_\_ **G.L.** \_\_\_\_\_

**Date** 8 AUGUST 2011 **Type Fluid** WATER  
**Run Number** ONE **Fluid Level** 35.0  
**Type Log** GR-DEN-CAL-RES-SP **Wellhead Pressure** 0  
**Depth - Driller (OH)** 279.5 m **Max. Temp. °C** N/A  
**Depth - Driller (CH)** \_\_\_\_\_ **Oper. Rig Time** 2.5 HR.  
**P.B.T.D. By Logger** 278.8 m **Recorded By** W. PUBANS  
**Bottom Log Interval** 277.0 **Witnessed By** O. CULLINGHAM  
**Logged Interval** 277.0 **Apparent Cement Top** N/A  
**Top Log Interval** 00.0 **Hoist Unit / Loc.** WIRELINE #1  
**Zone(s) of Interest** \_\_\_\_\_ **Program** WIN 98  
**Sun Type and Size** \_\_\_\_\_ **DRILL RIG**  
**Sun Charges** \_\_\_\_\_

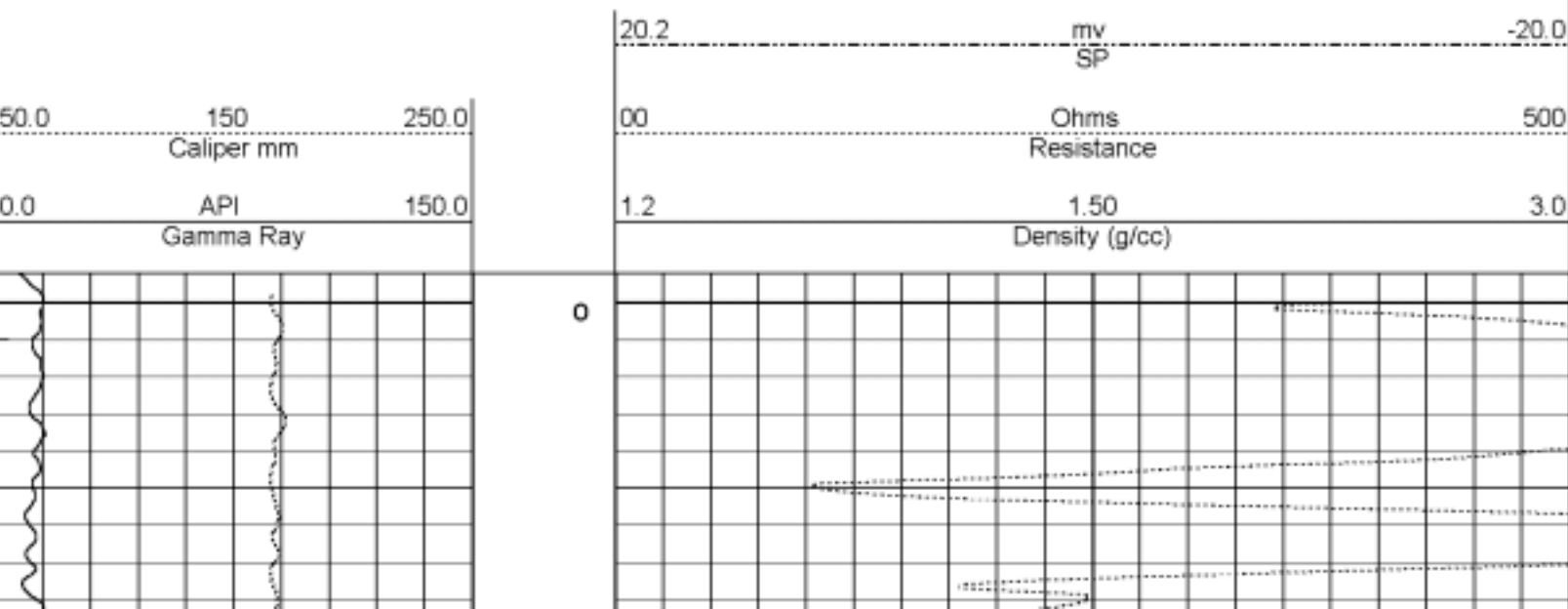
CASING RECORD	SIZE	Kg/m	GRADE	TYPE JOINT	FROM	TO
DRILL BIT	152.4 mm				SURF.	T.D.
SURF. CASING	168.0				SURF.	17.0
PLASTIC LINER						

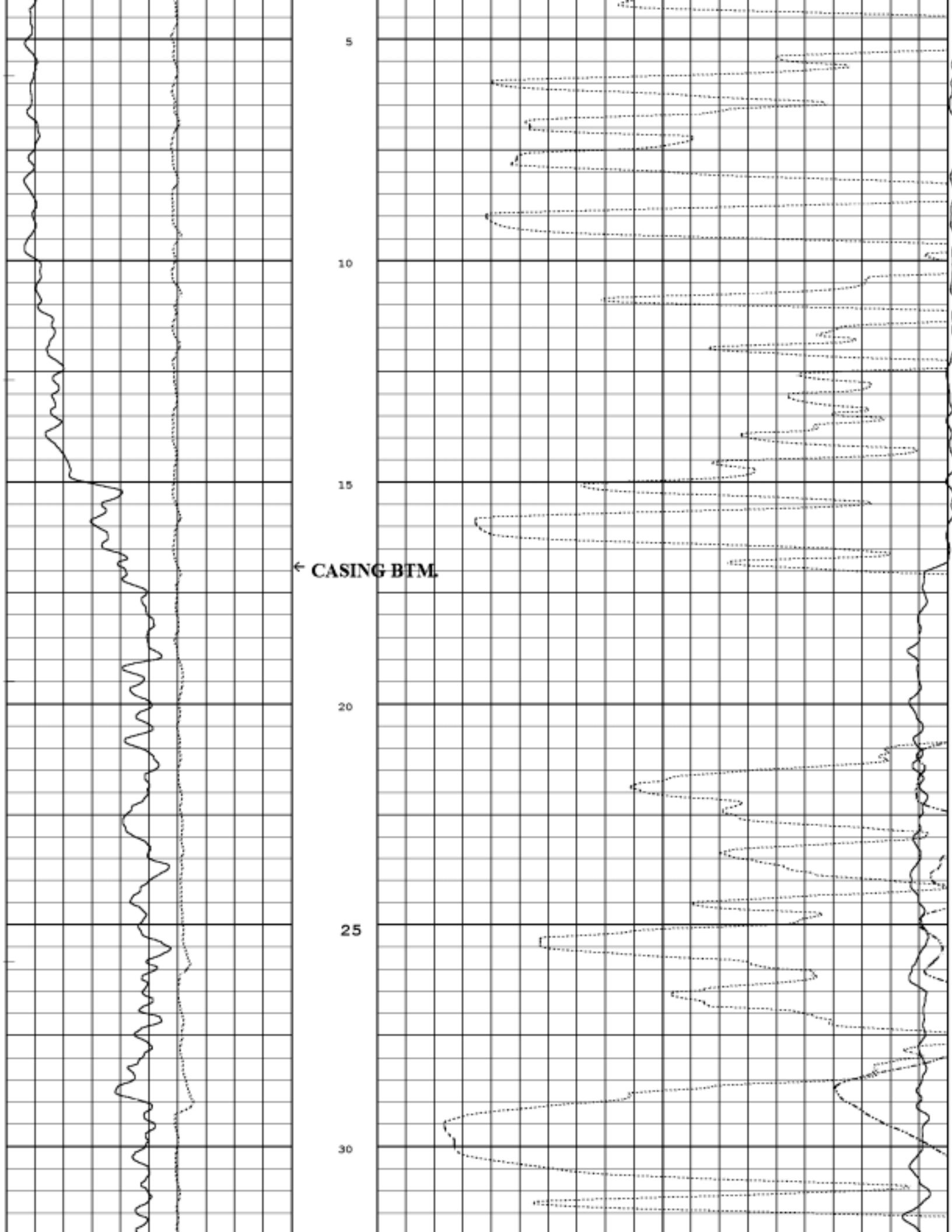
START: 284.70m  
 STOP: -0.20m  
 RES.: 0.05 m  
 SCALE: 100:1 m

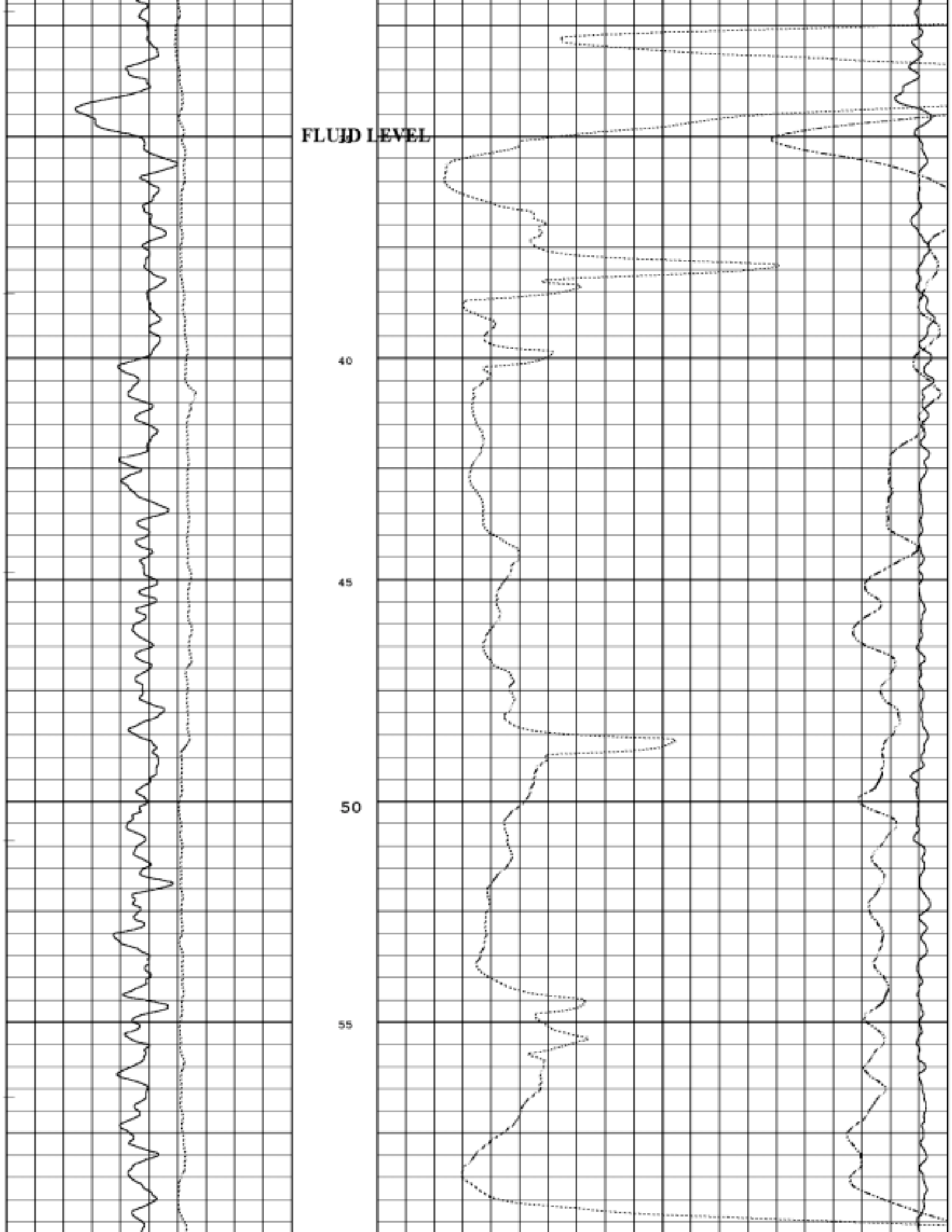
## RAV-11-01B

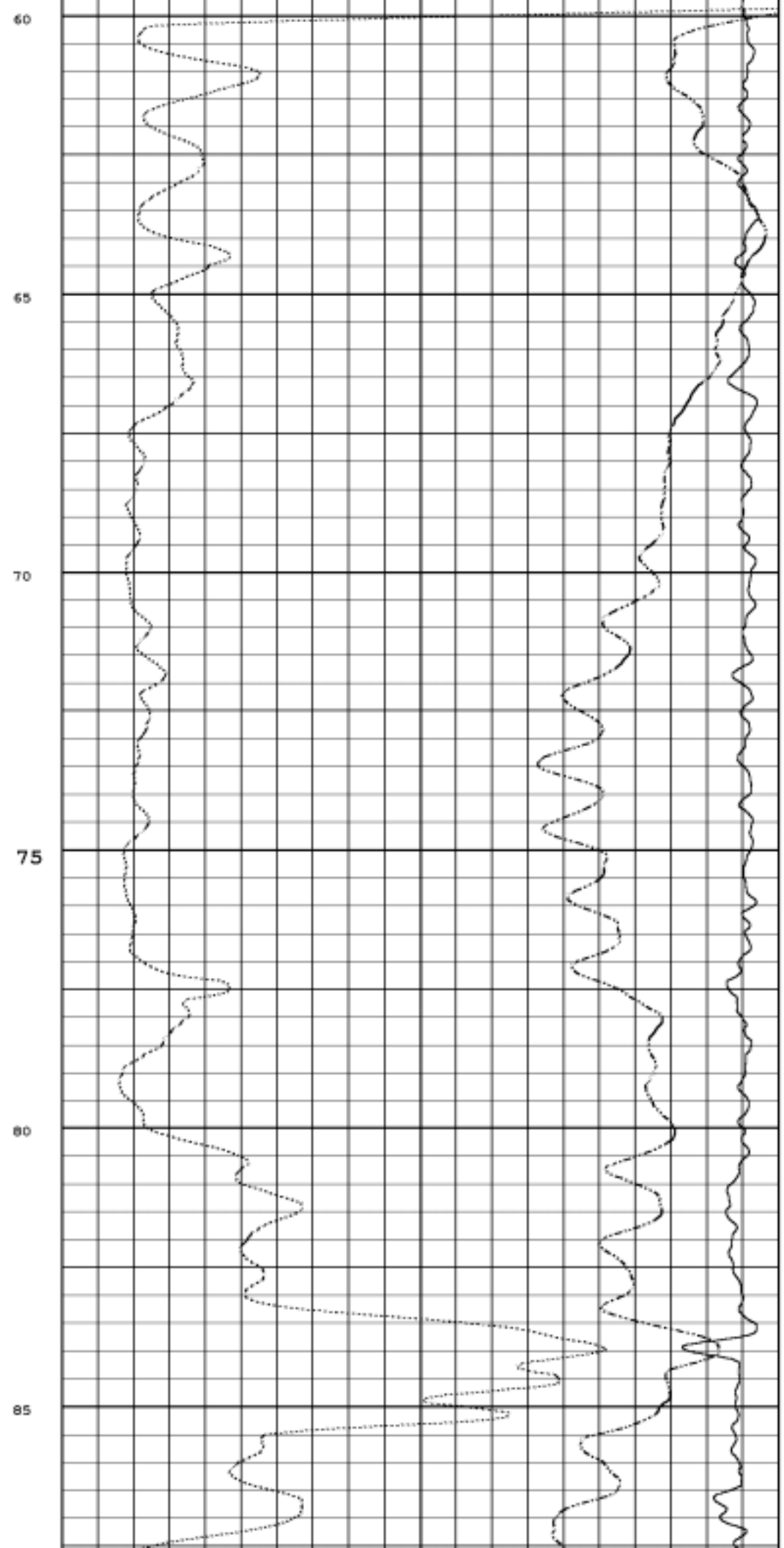
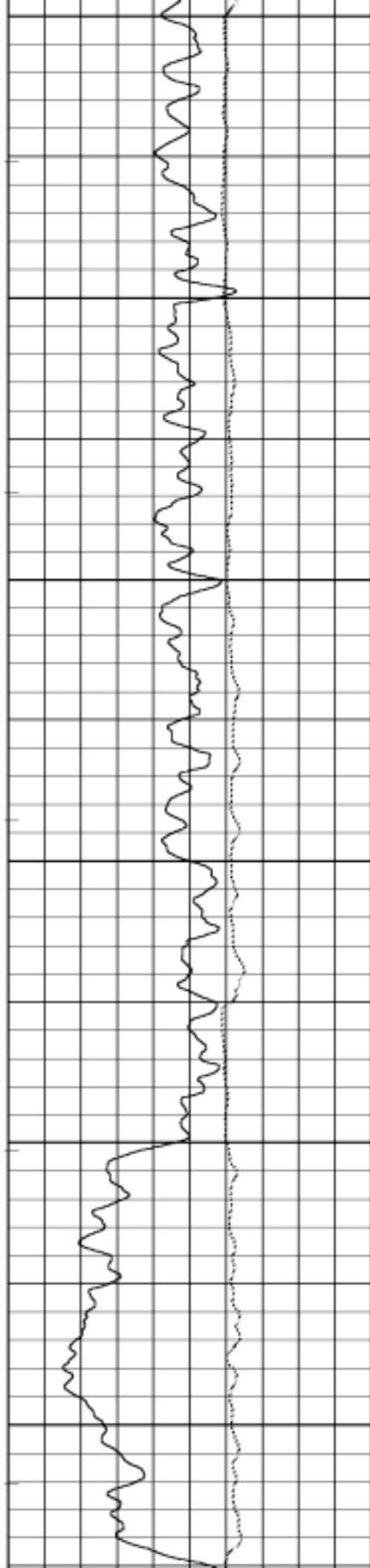
RUN: RAV-11-01B LAS REP  
 DIR.: UP  
 DATE: 08/08/11  
 TIME: 16:40:50

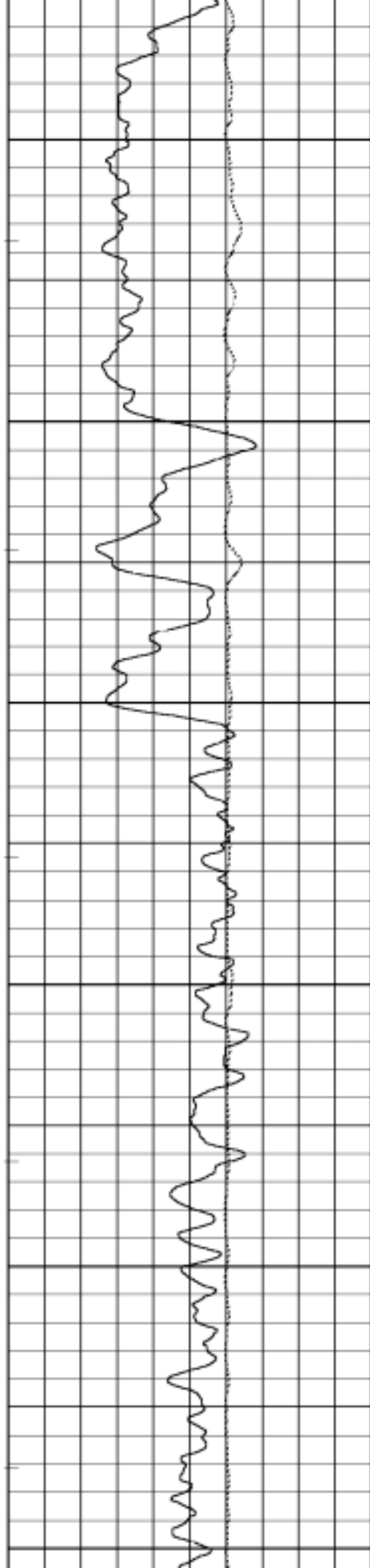
Time Mark [60.0 s]











90

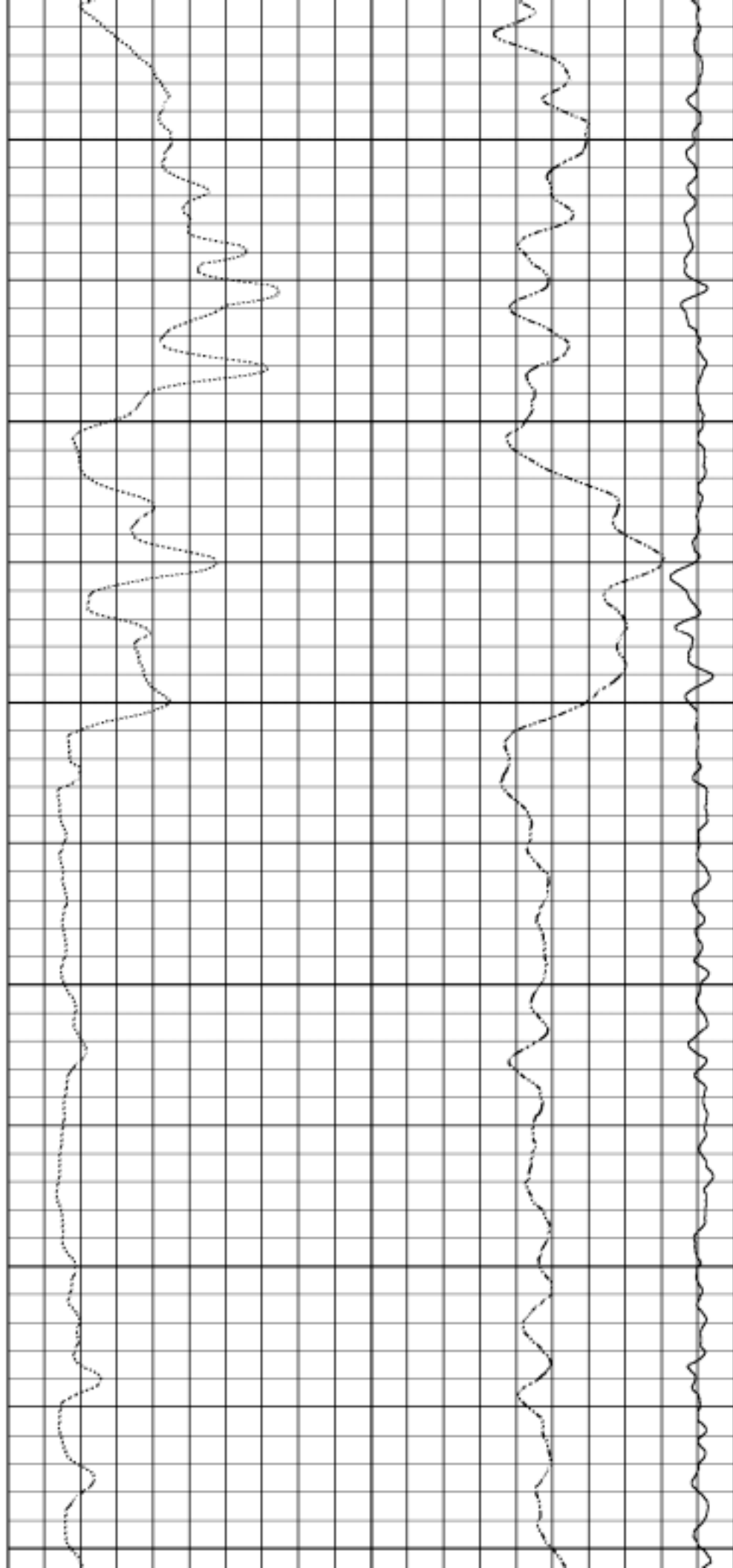
95

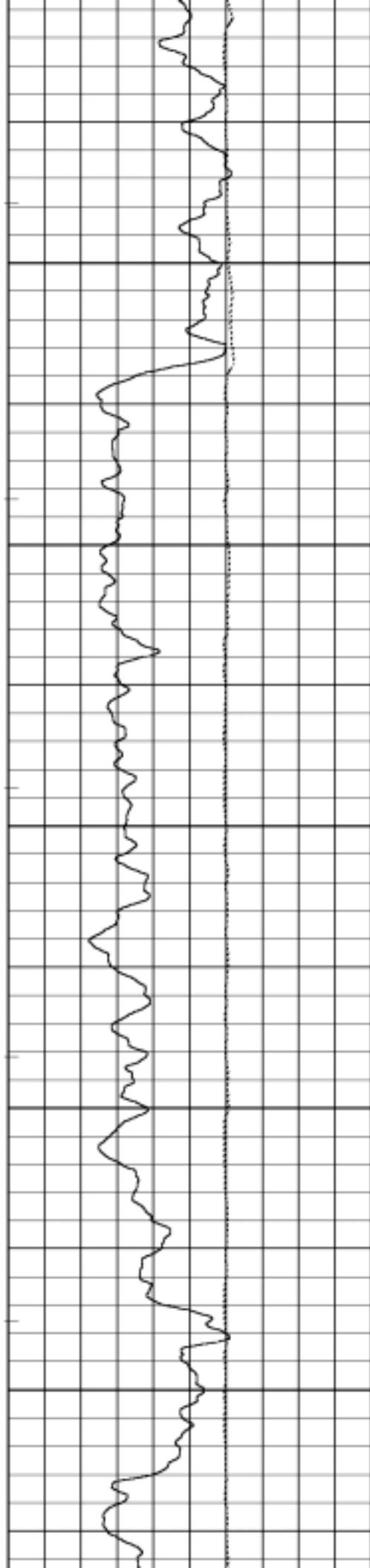
100

105

110

115





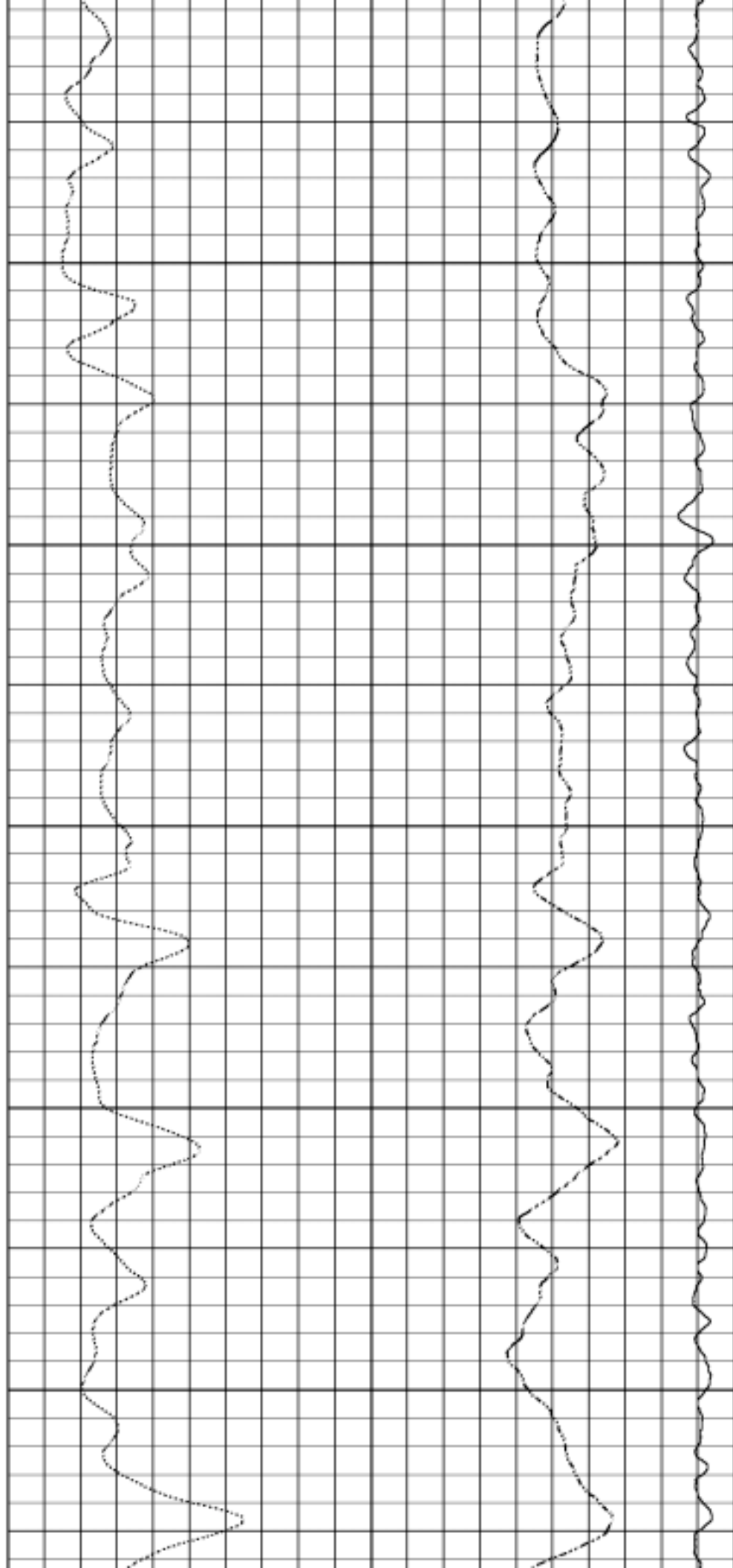
120

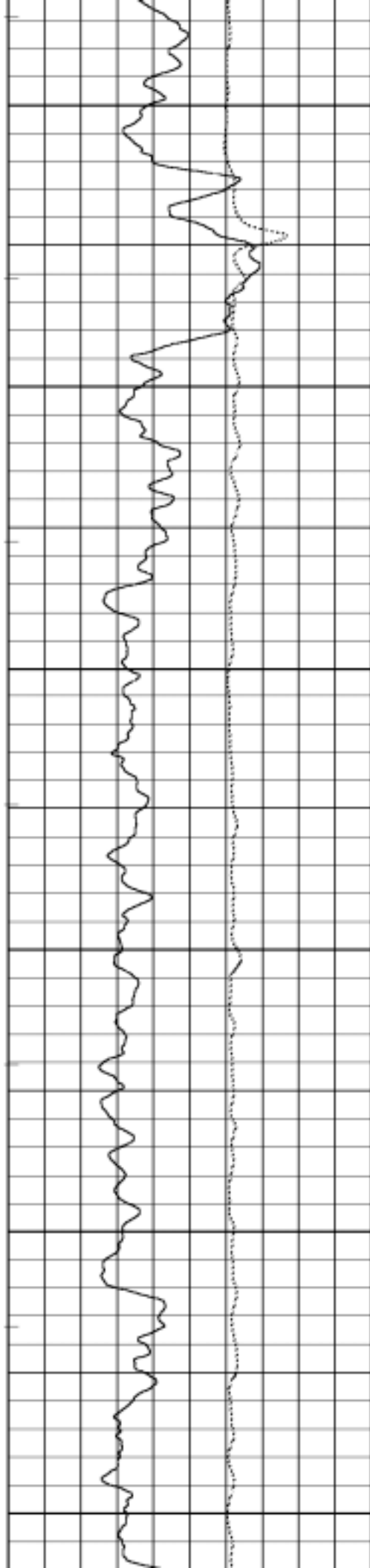
125

130

135

140





145

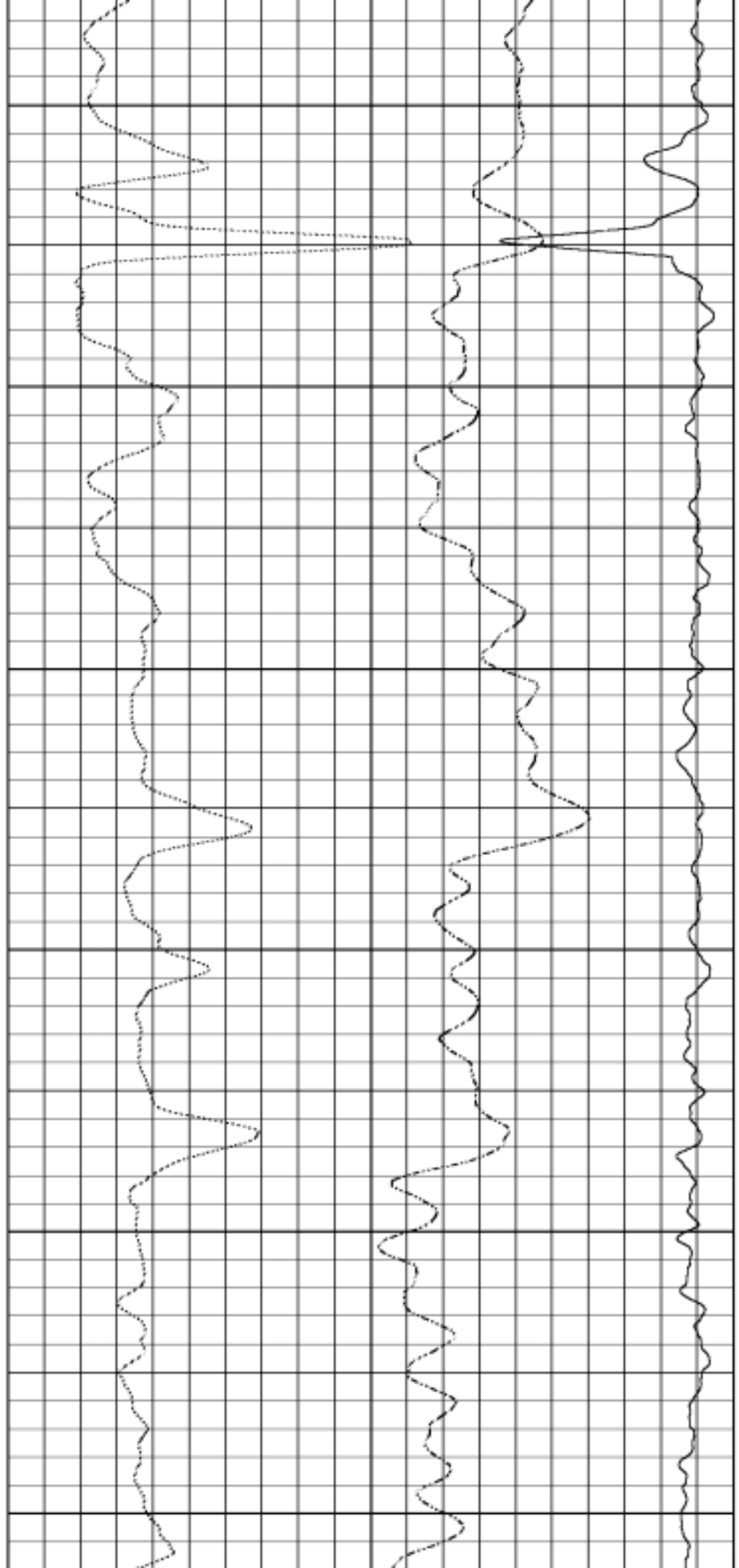
150

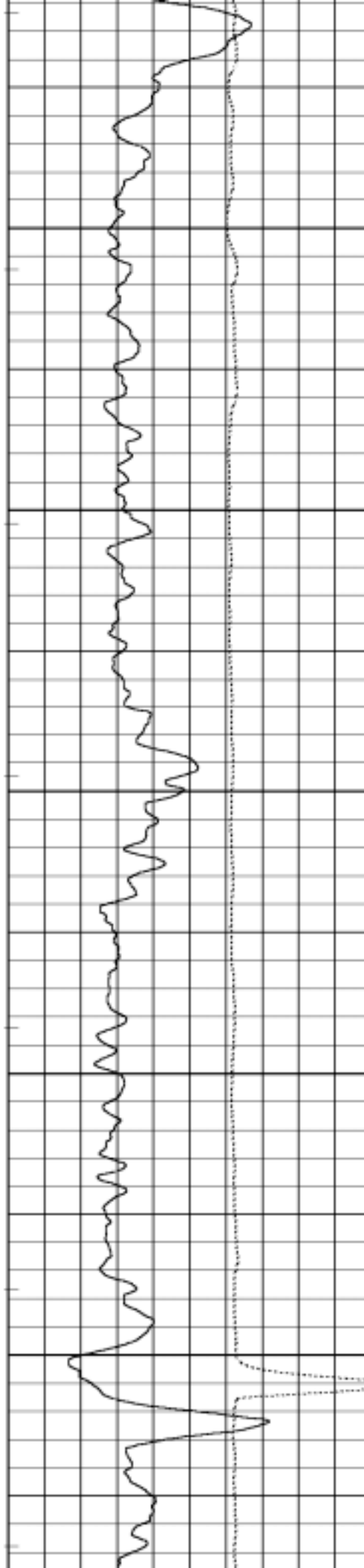
155

160

165

170





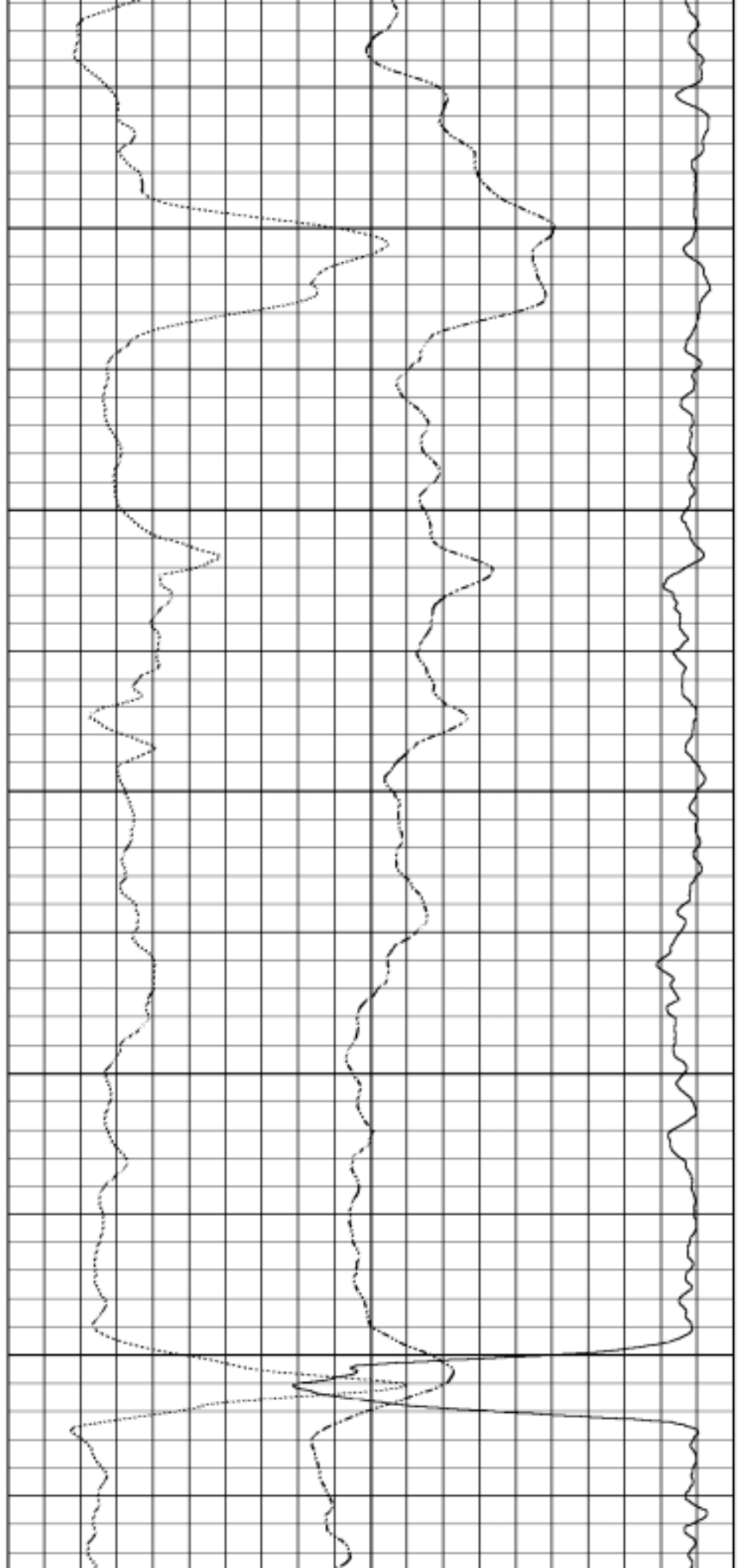
175

180

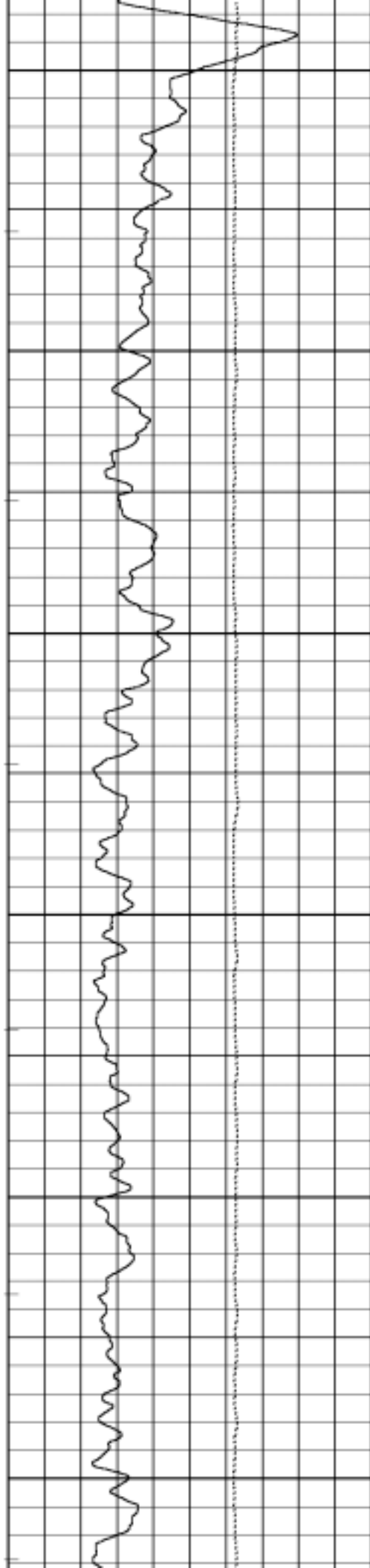
185

190

195







200

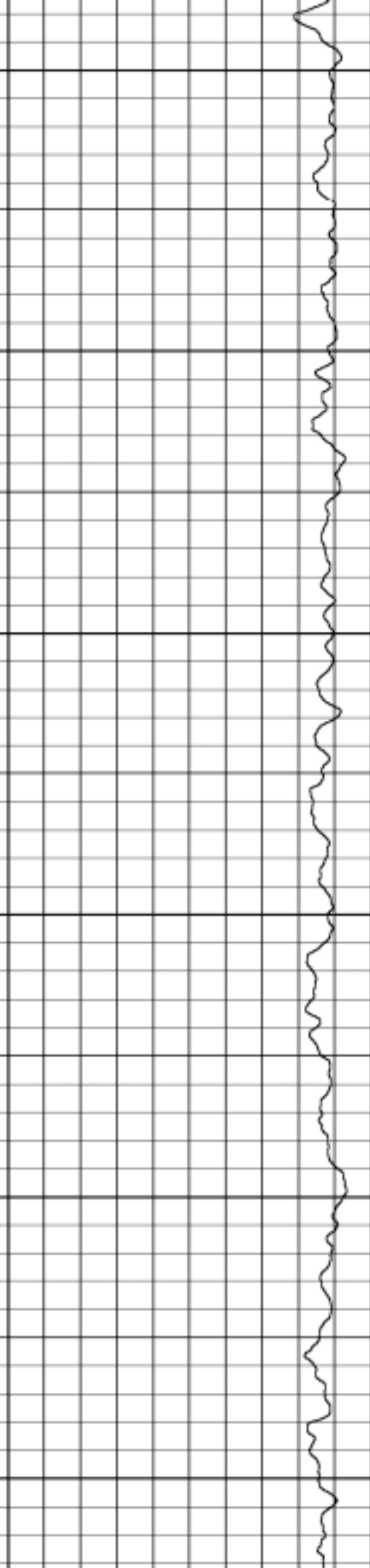
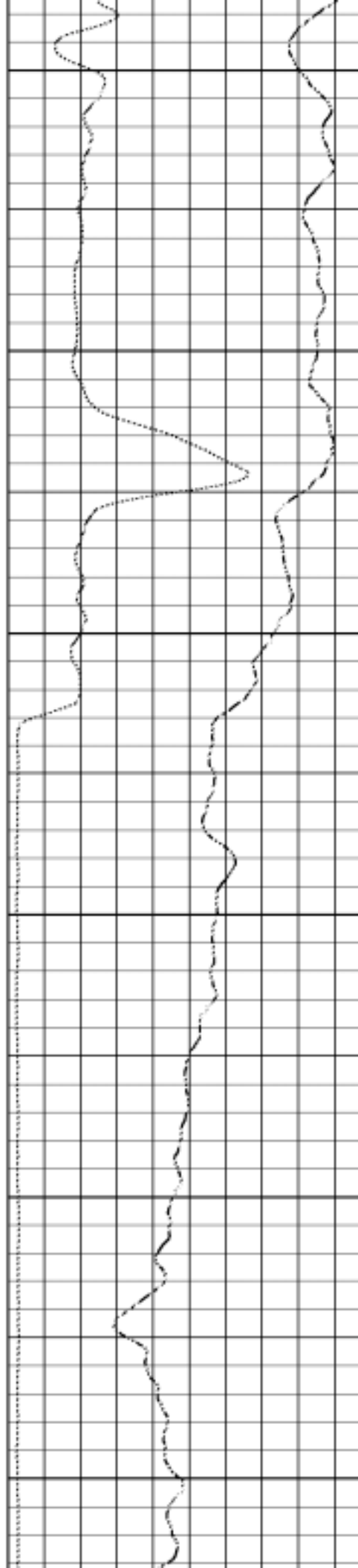
205

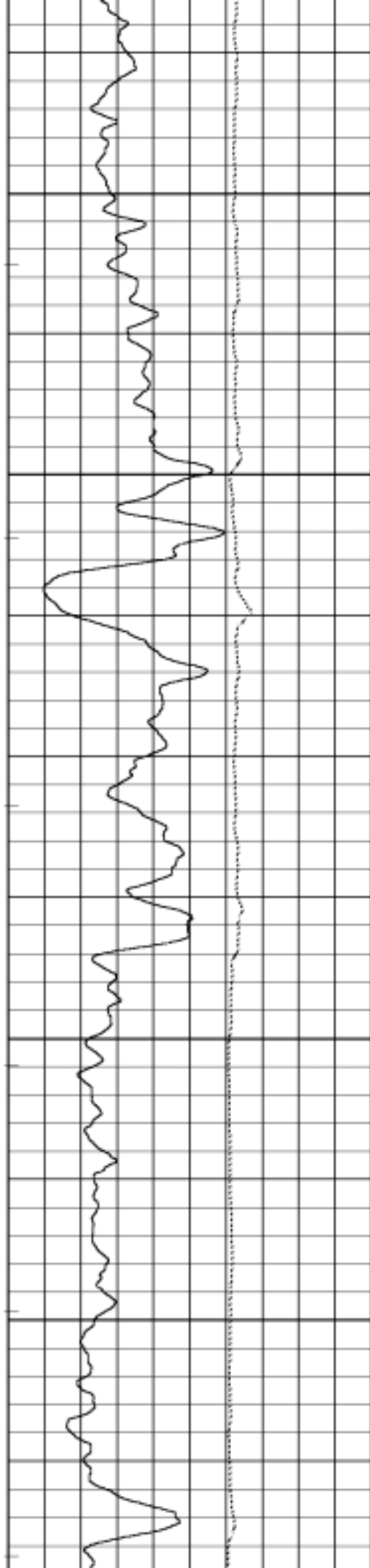
210

215

220

225





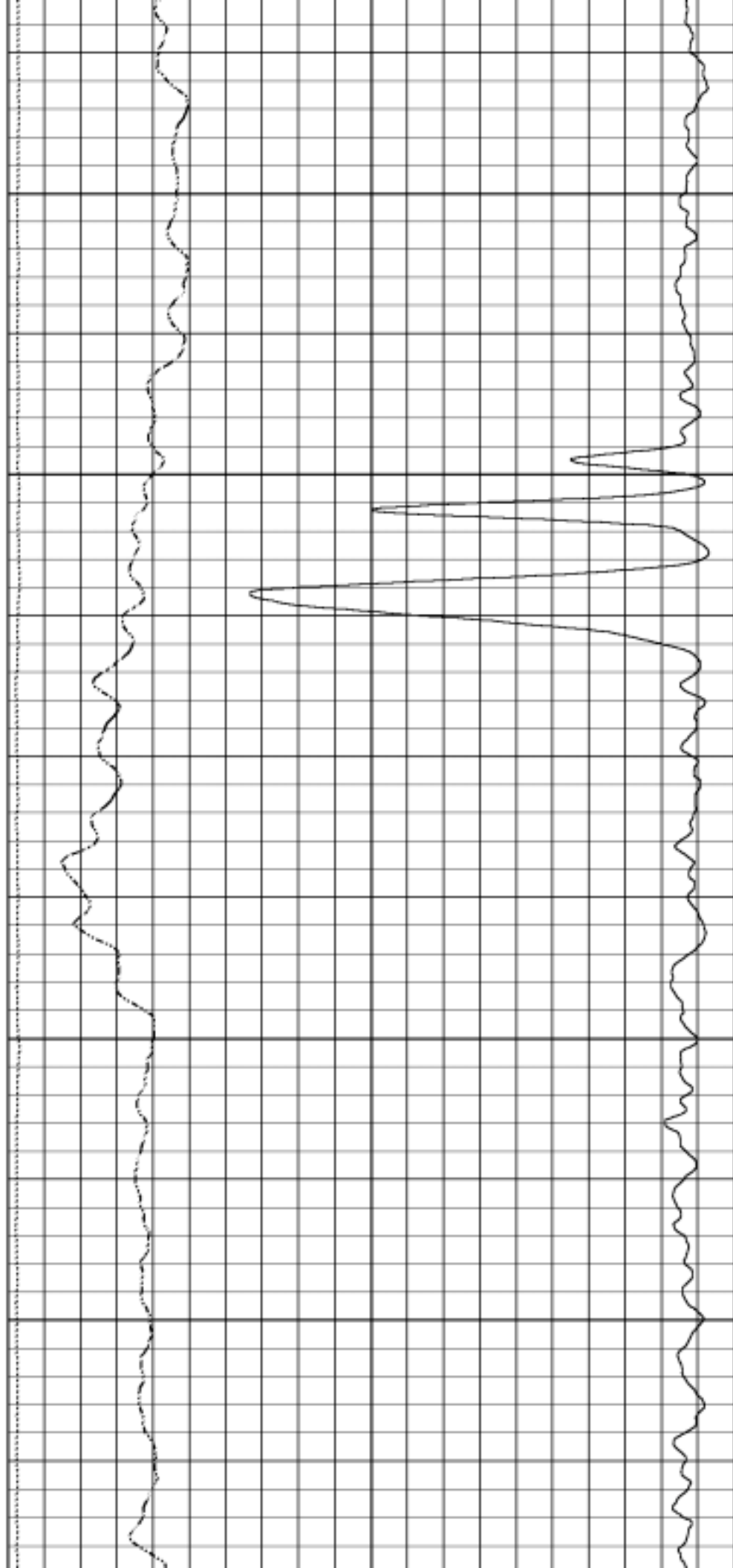
230

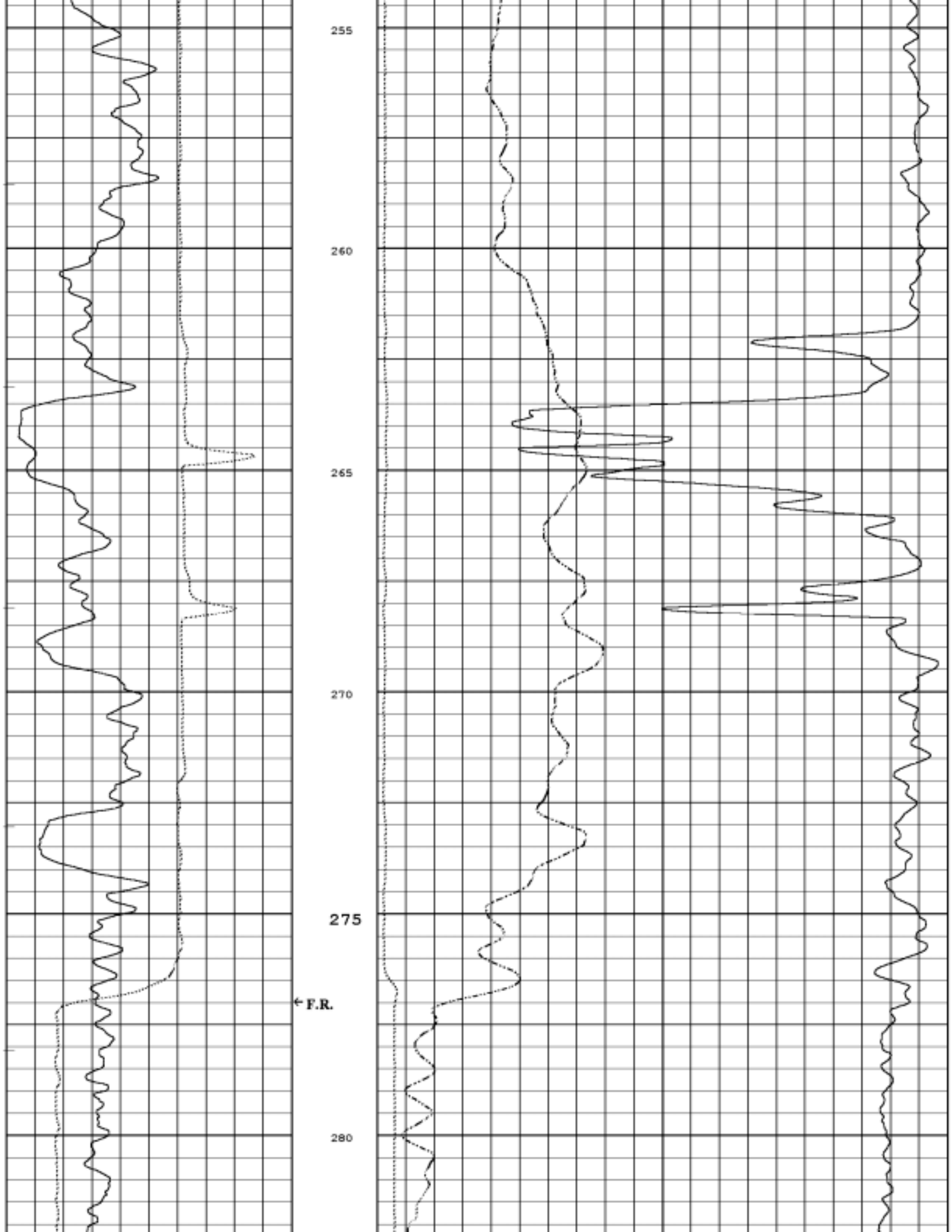
235

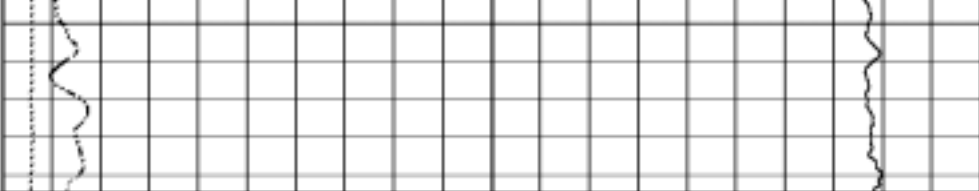
240

245

250







0.0	API	150.0
Gamma Ray		
50.0	150	250.0
Caliper mm		

1.2	1.50	3.0
Density (g/cc)		
00	Ohms	500
Resistance		
20.2	mv	-20.0
SP		

Time Mark [60.0 s]

RUN: RAV-11-01B LAS REP  
 DIR.: UP  
 DATE: 08/08/11  
 TIME: 16:40:50

# RAV-11-01B

START: 284.70m  
 STOP: -0.20m  
 RES.: 0.05 m  
 SCALE: 100:1 m

# ELECTROLOG SERVICES INC.

GAMMA RAY  
S.P. / RESISTANCE  
DENSITY / CALIPER  
LOG

FILING #	Company COMPLIANCE COAL CORPORATION		
LSD.	Well	RAV-11-01B	
SEC.	Field	RAVEN PROJECT	
TWP.	Province	BRITISH COLUMBIA	
RGE.	Location		
W.	LSD.	SEC.	TWP.
	RGE.	W.	
			OTHER SERVICES DEVIATION SURVEY

Permanent Datum GROUND LEVEL Elevation K.B.  
Log Measured From GROUND LEVEL Above Perm. Datum G.L.

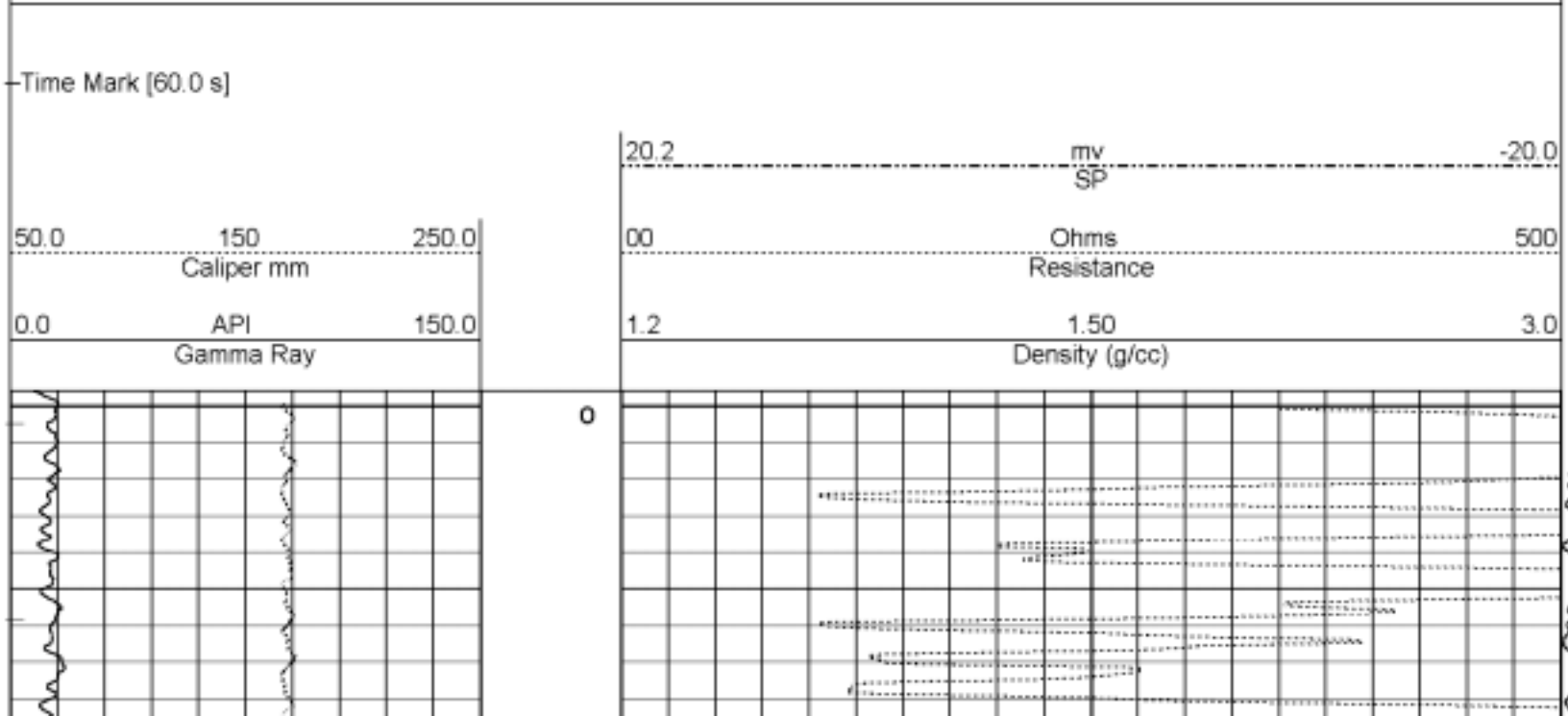
Date	8 AUGUST 2011	Type Fluid	WATER
Run Number	ONE	Fluid Level	35.0
Type Log	GR-DEN-CAL-RRS-SP	Wellhead Pressure	0
Depth - Driller (OH)	279.5 m	Max. Temp. °C	N/A
Depth - Driller (CH)		Oper. Rig Time	2.5 HR.
P.B. T.D. By Logger	278.8 m	Recorded By	W. PUBANS
Bottom Log Interval	277.0	Witnessed By	O. CULLINGHAM
Logged Interval	277.0	Apparent Cement Top	N/A
Top Log Interval	00.0	Hoist Unit# / Loc.	WIRELINE #1
Zone(s) of Interest		Program	WIN 98
Gun Type and Size		DRILL RIG	
Gun Charges			

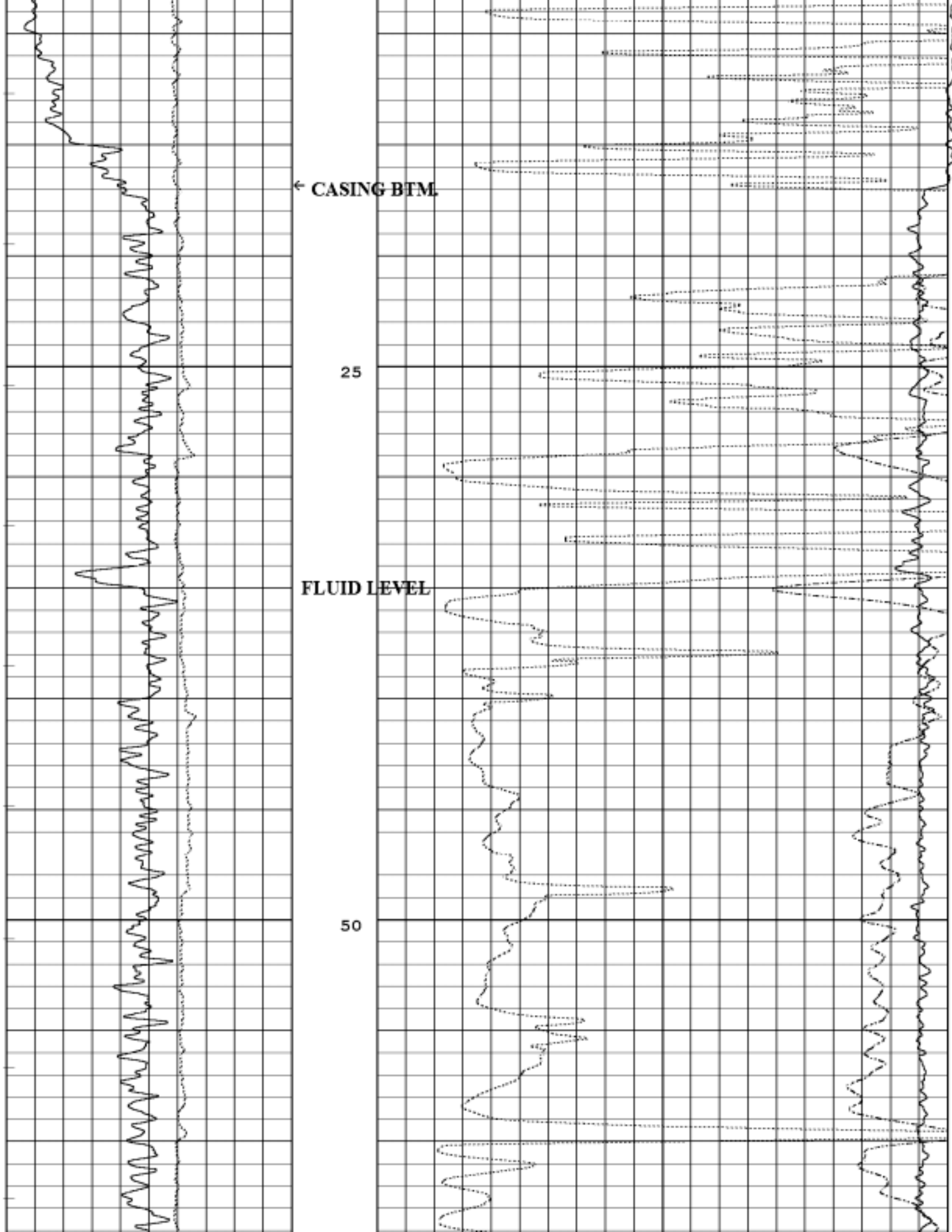
CASING RECORD	SIZE	Kg/m	GRADE	TYPE JOINT	FROM	TO
DRILL BIT	152.4 mm				SURF.	T.D.
SURF. CASING	168.0				SURF.	17.0
PLASTIC LINER						

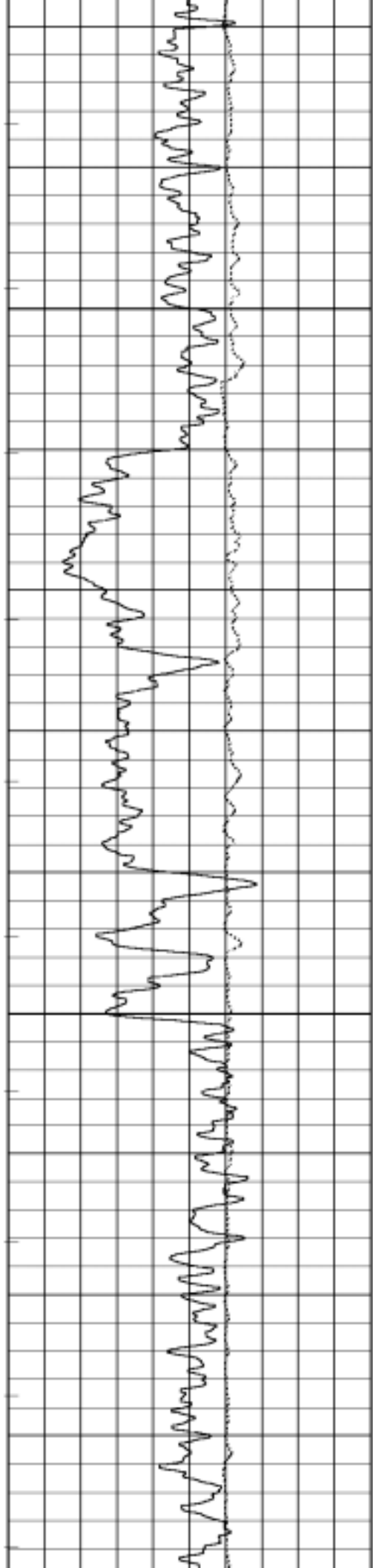
START: 284.70m  
STOP: -0.20m  
RES.: 0.05 m  
SCALE: 200:1 m

## RAV-11-01B

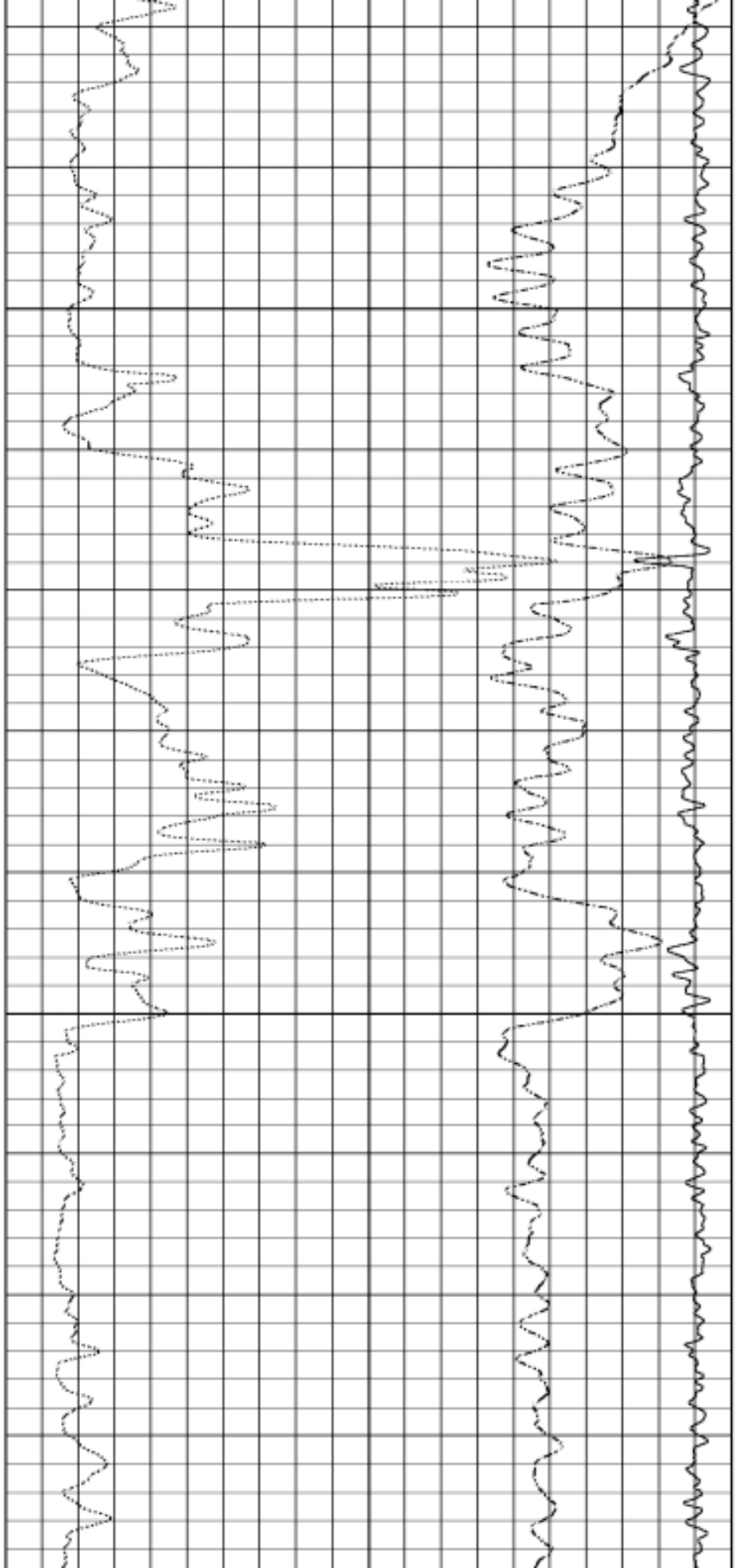
RUN: RAV-11-01B LAS REP  
DIR.: UP  
DATE: 08/08/11  
TIME: 16:40:50



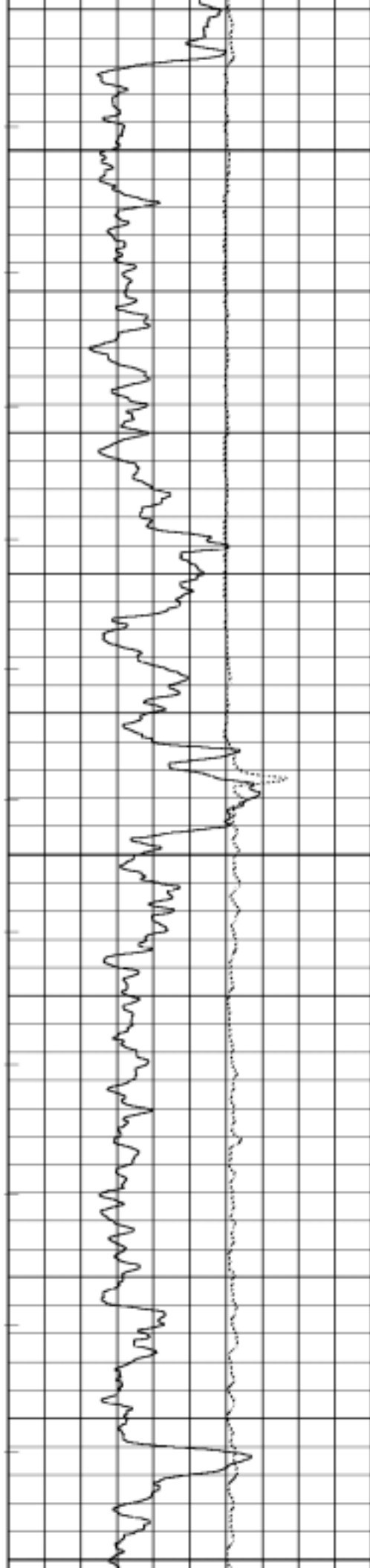




75



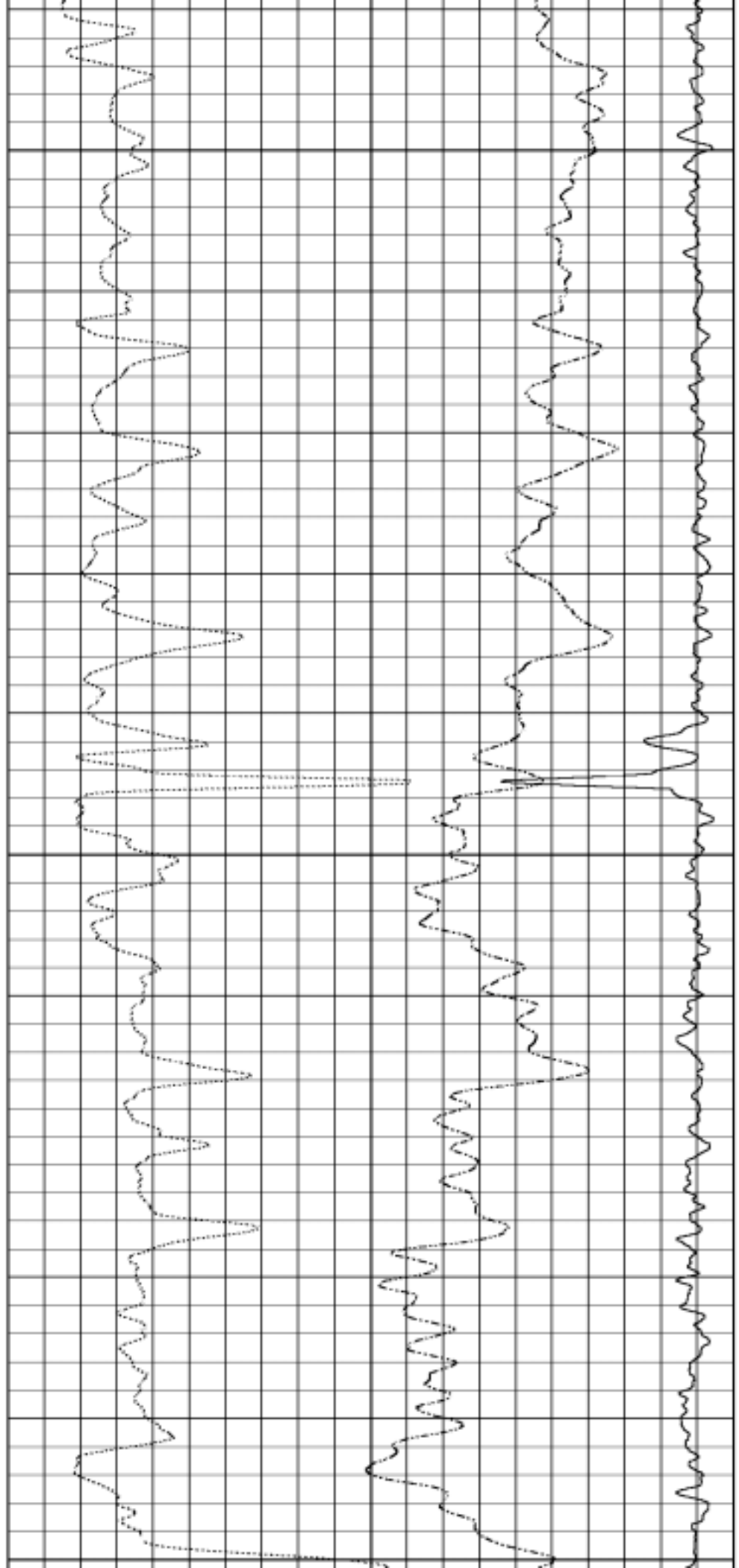
100



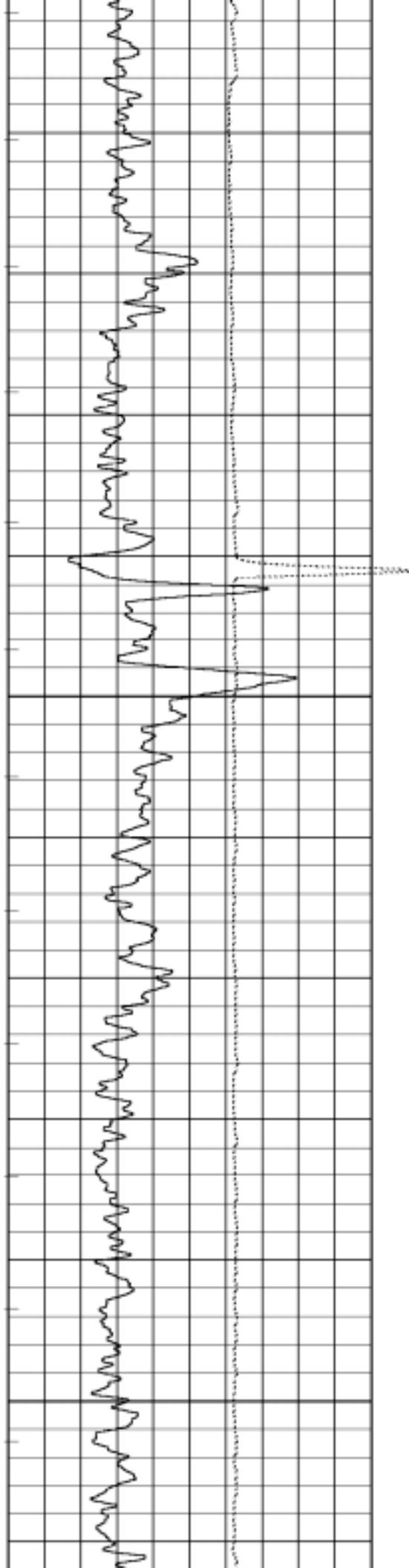
125

150

175



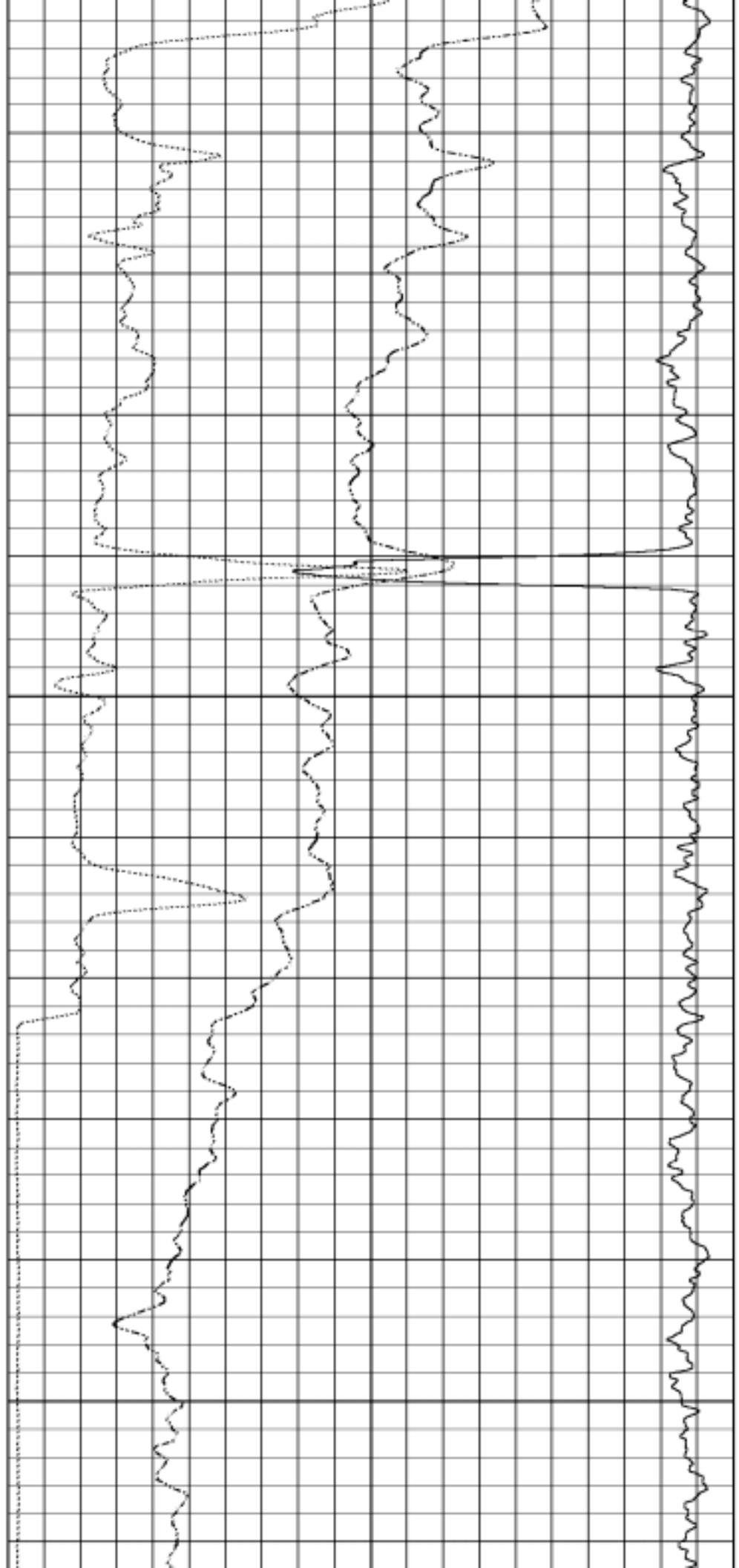


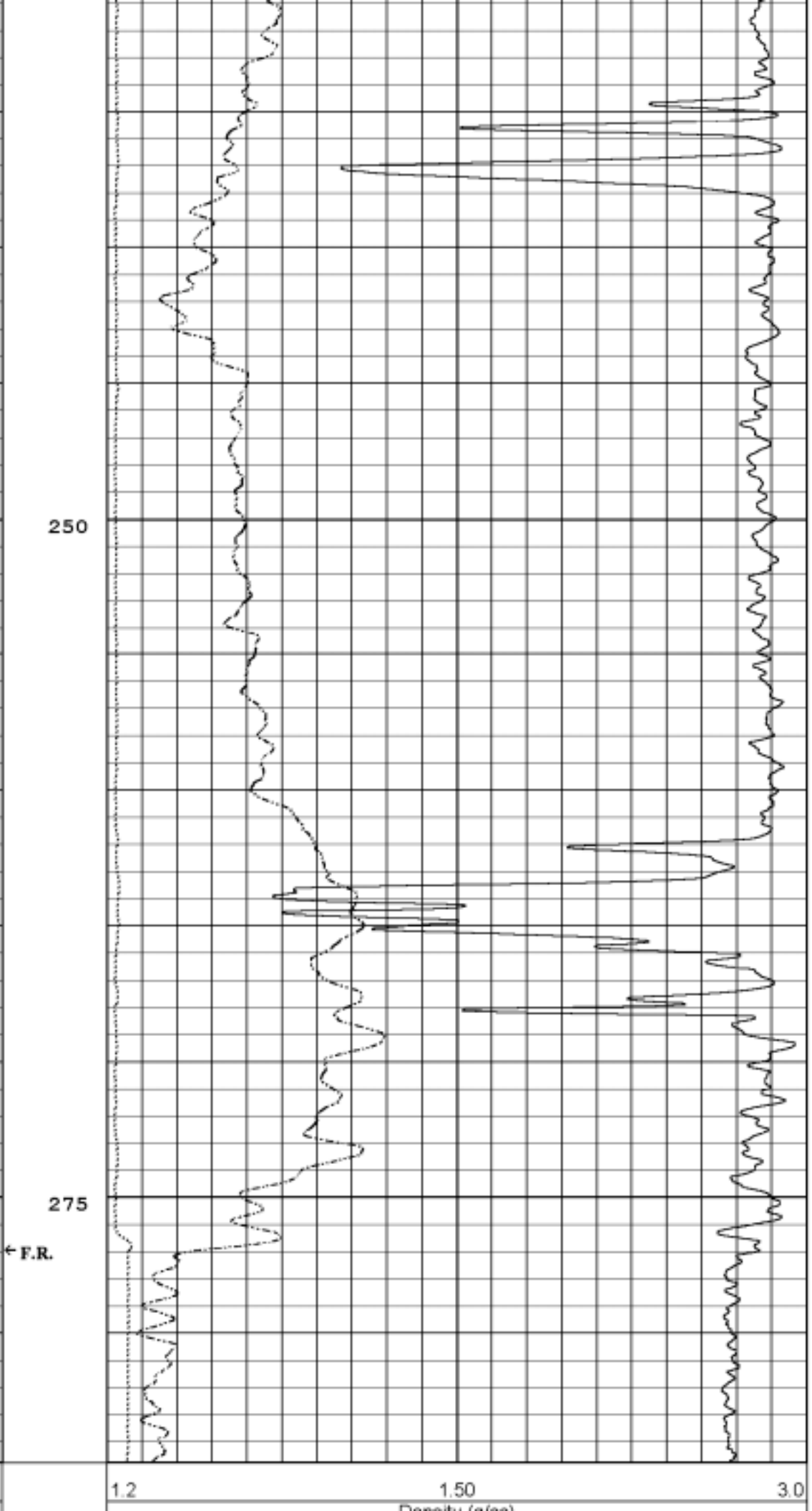
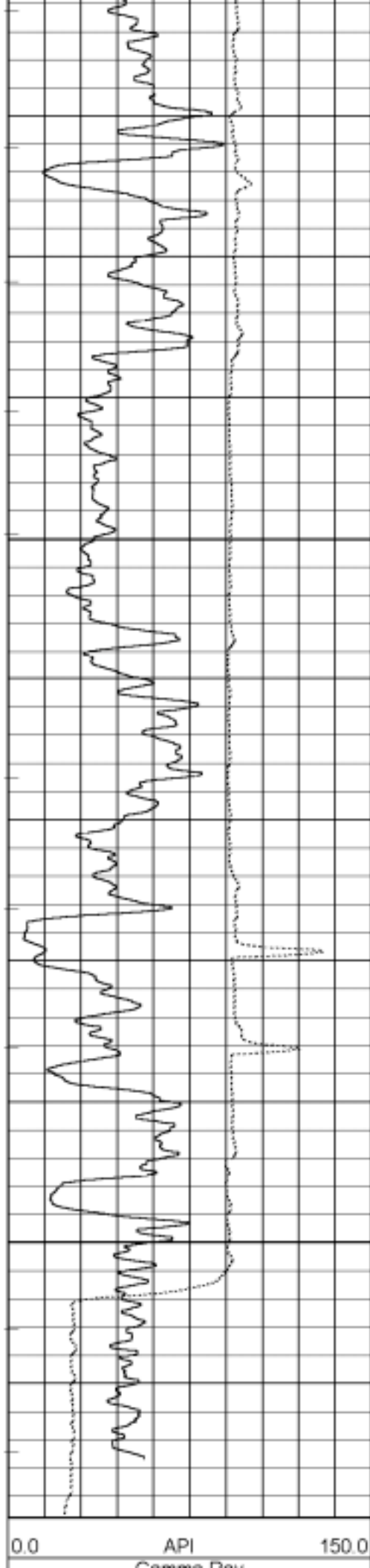


175

200

225





Gamma Ray

Density (g/cc)

50.0 150 250.0

00 Ohms 500

Caliper mm

Resistance

20.2 mv -20.0

SP

Time Mark [60.0 s]

RUN: RAV-11-01B LAS REP  
DIR.: UP  
DATE: 08/08/11  
TIME: 16:40:50

RAV-11-01B

START: 284.70m  
STOP: -0.20m  
RES.: 0.05 m  
SCALE: 200:1 m



## **APPENDIX B-2**

### **Geophysical Logs of Drill Hole RAV-11-02b**

# ELECTROLOG SERVICES INC.

GAMMA RAY  
S.P. / RESISTANCE  
DENSITY / CALIPER  
LOG

<b>FILING #</b>	Company COMPLIANCE COAL CORPORATION		
LSD.	Well	RAV-11-02B	
SEC.	Field	RAVEN PROJECT	
TWP.	Province	BRITISH COLUMBIA	
RGE.	Location		OTHER SERVICES DEVIATION SURVEY
W.	LSD.	SEC.	TWP.
	RGE.	W.	

Permanent Datum GROUND LEVEL  
Log Measured From GROUND LEVEL

Elevation  
Above Perm. Datum

Date	3 AUGUST 2011	Type Fluid	WATER
Run Number	08B	Fluid Level	10.1
Type Log	GR-DEN-CAL-RES-SP	Wellhead Pressure	0
Depth - Driller (OH)	395.4 m	Max. Temp. °C	N/A
Depth - Driller (CH)		Oper. Rig Time	2.5 HR.
P.B.T.D. By Logger	DRIDGED AT 259.5 m	Recorded By	M. FURMAN
Bottom Log Interval	258.5	Witnessed By	O. CULLINGHAM
Logged Interval	258.5	Apparent Cement Top	N/A
Top Log Interval	00.0	Hole Unit# / Loc.	WIRELINE #1
one(s) of interest		Program	WIN 98
Run Type and Size		DRILL RIG	
Run Charges			

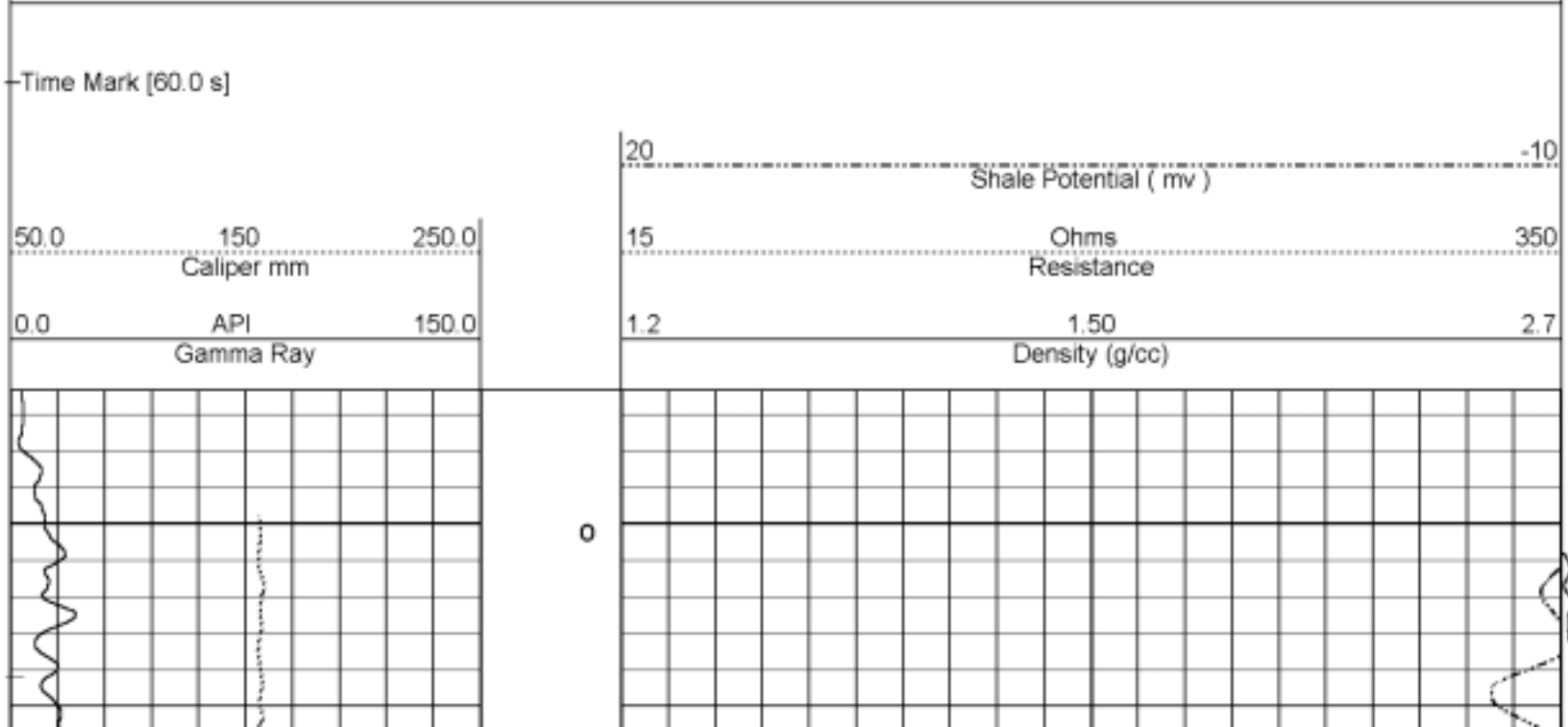
CASING RECORD	SIZE	Kg/m	GRADE	TYPE JOINT	FROM	TO
DRILL BIT	152.4 mm				SURF.	T.D.
SURF. CASING	168.0				SURF.	40
ELASTIC LINER						

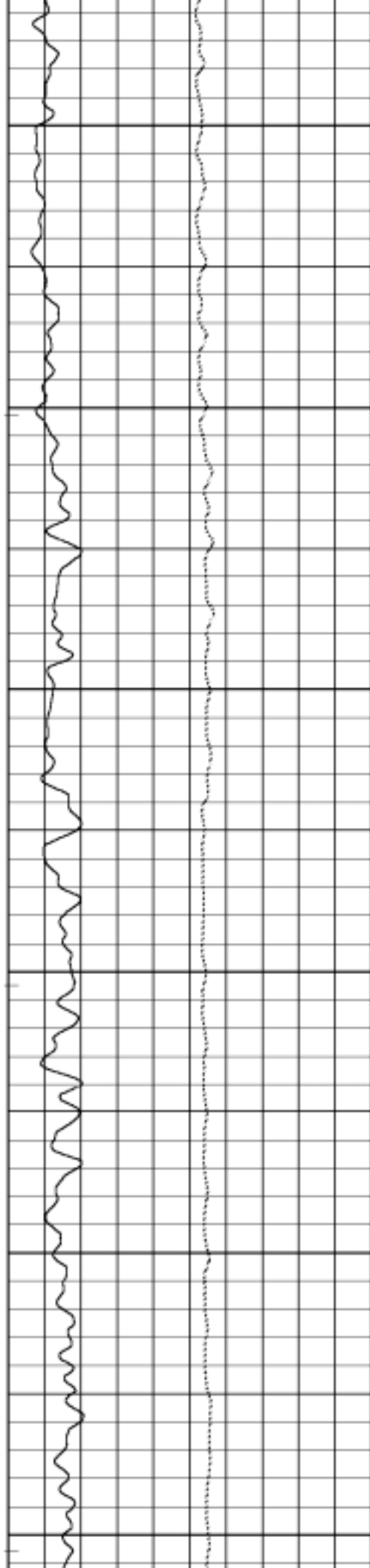
GAMMA RAY LOGGED THROUGH DRILL PIPE TO T.D. ONLY BOTTOM OF LOG PRESENTED 225-395M  
DRILL COLLARS PRESENT AS LOWER COUNTS ON GAMMA RAY DUE TO DIFFERENCE OF METAL  
THICKNESS

START: 266.10m  
STOP: -1.00m  
RES.: 0.05 m  
SCALE: 100:1 m

## RAV-11-02B

RUN: RAV-11-02B  
DIR.: UP  
DATE: 08/03/11  
TIME: 17:28:33





5

10

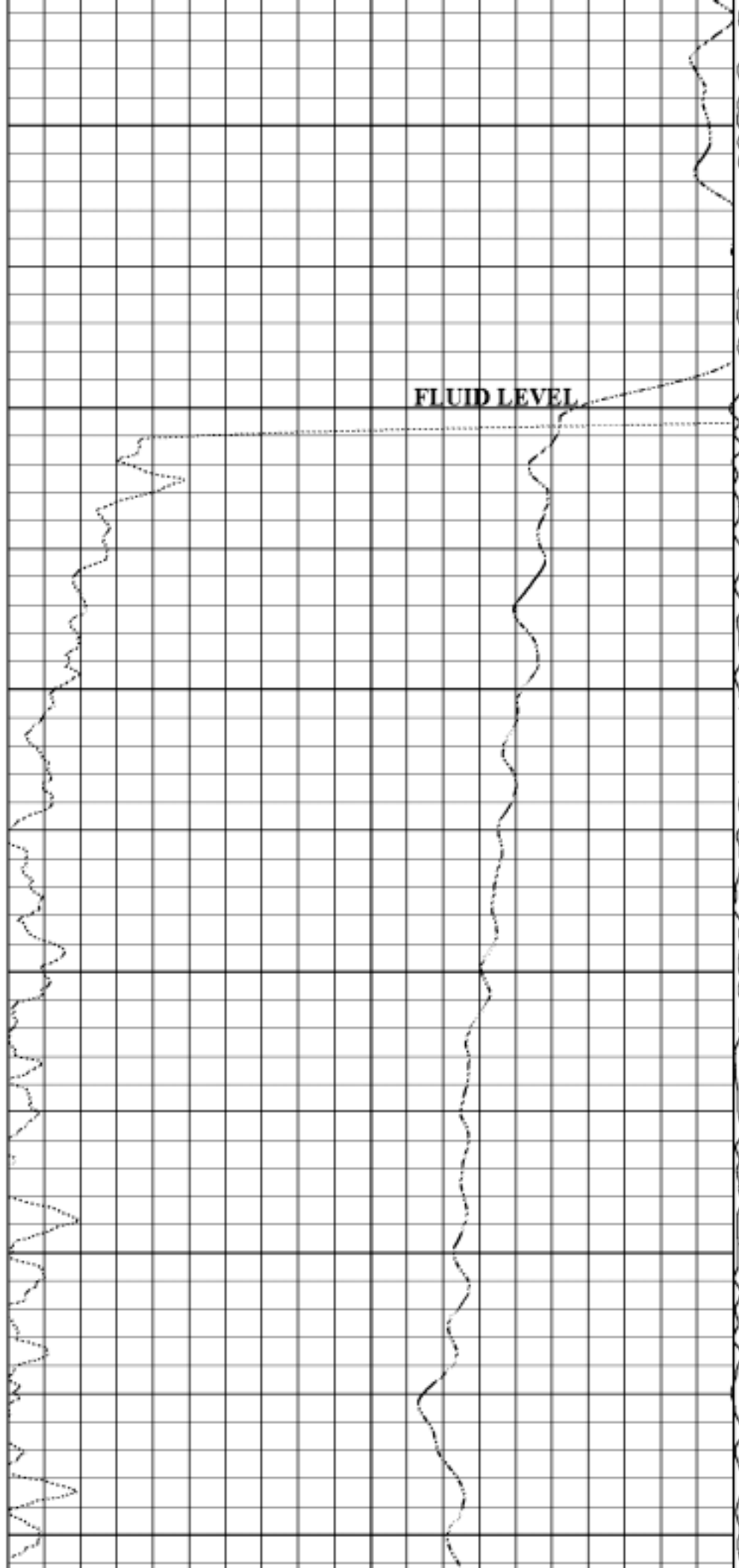
15

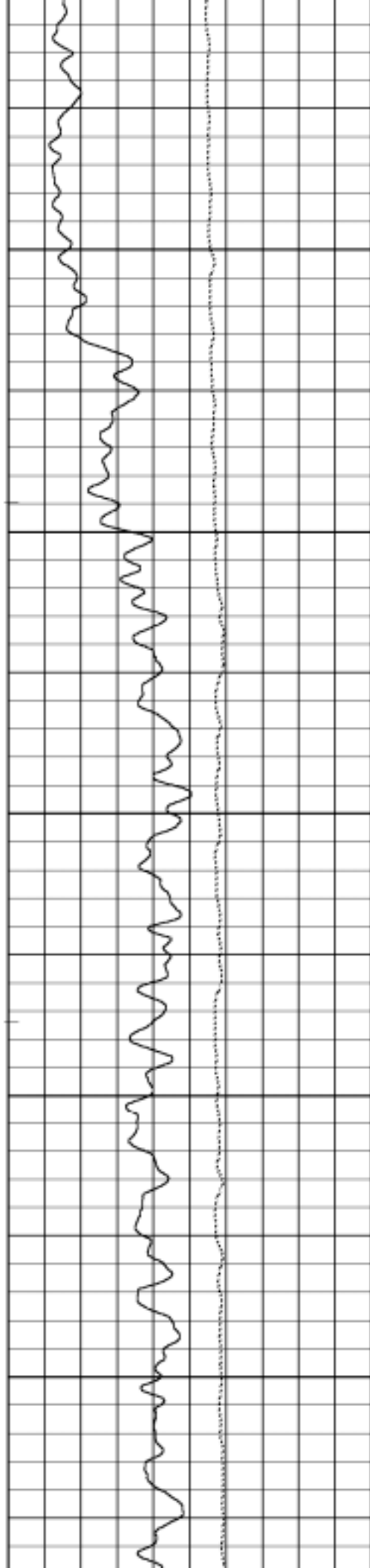
20

25

30

**FLUID LEVEL**





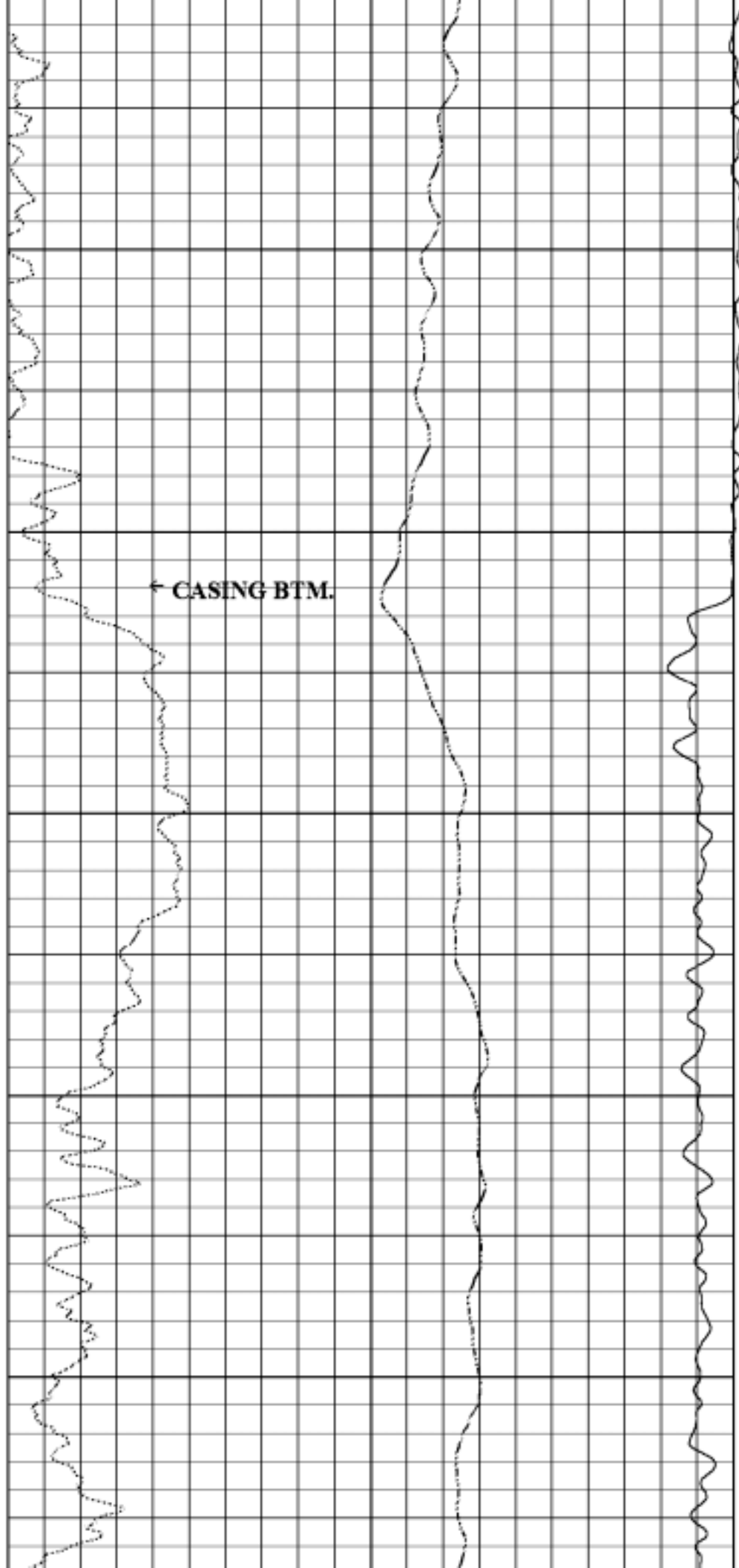
35

40

45

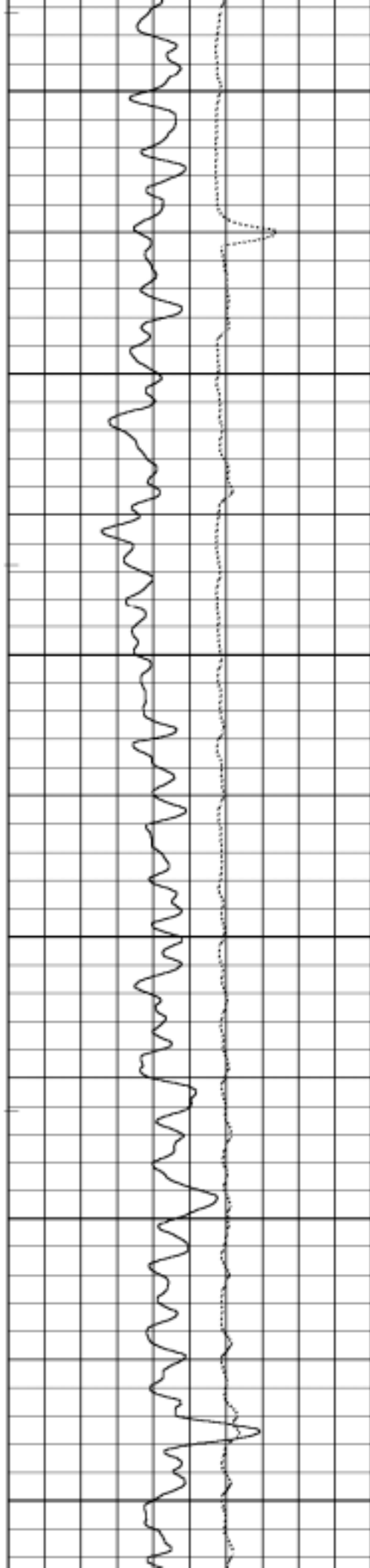
50

55



← CASING BTM.





60

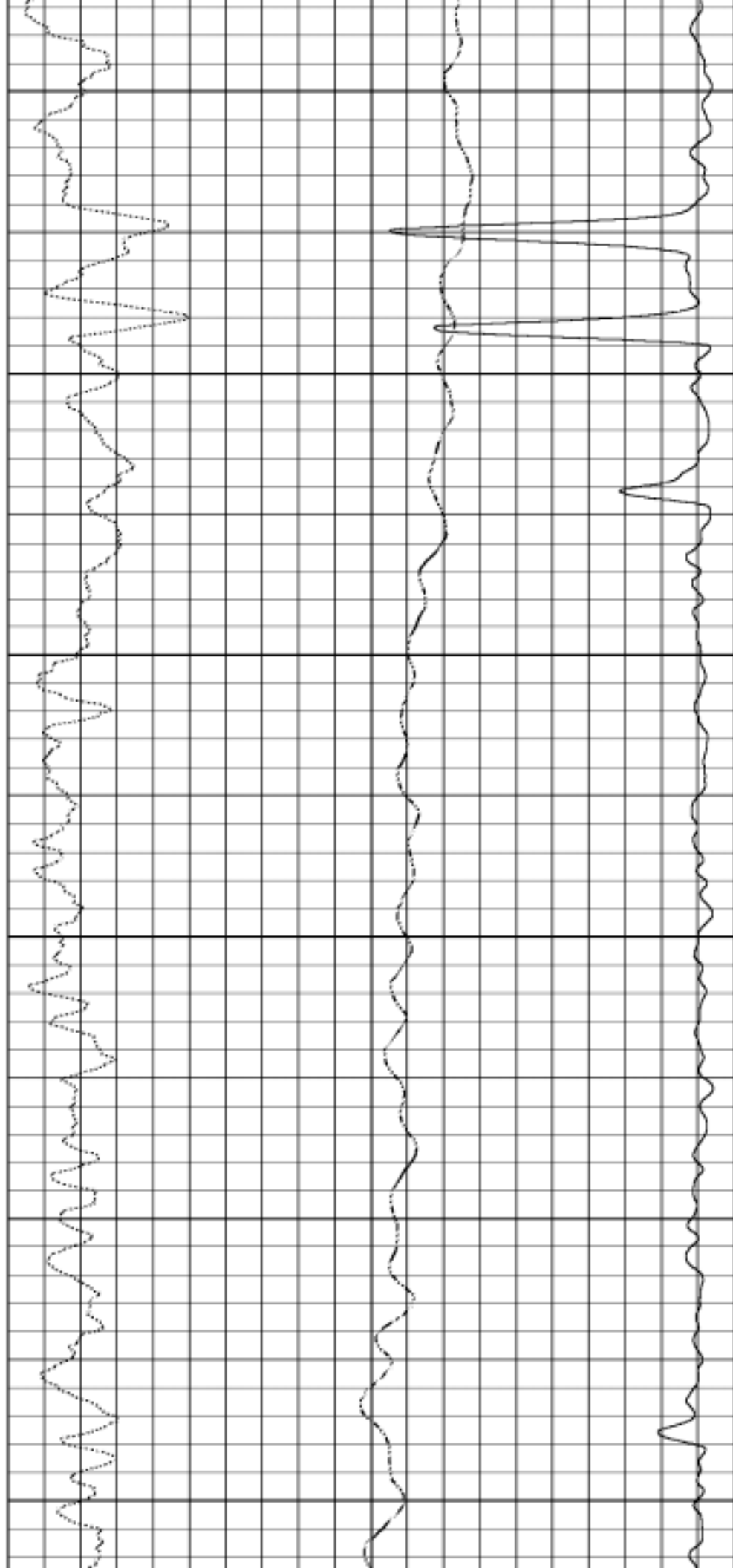
65

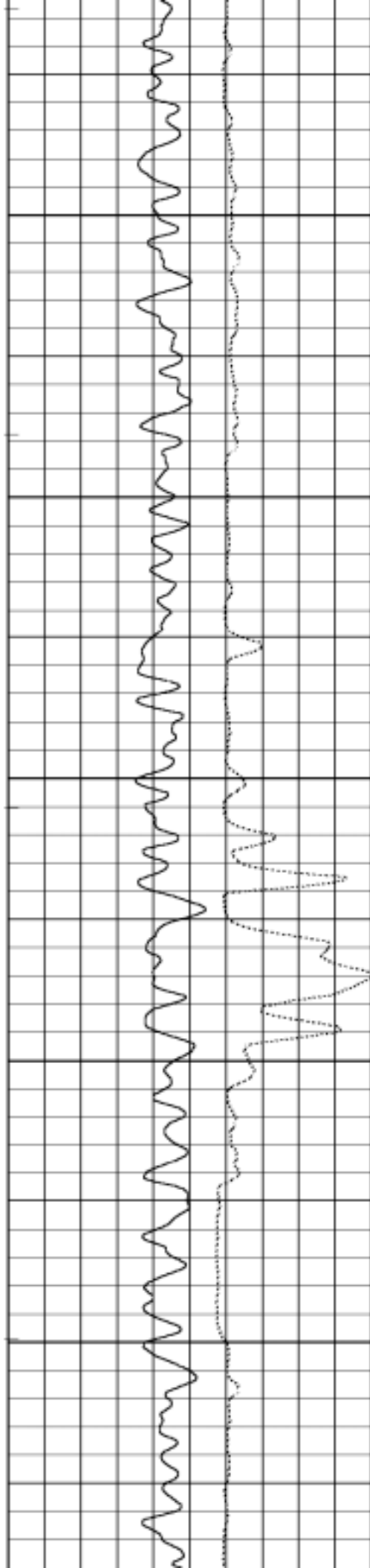
70

75

80

85





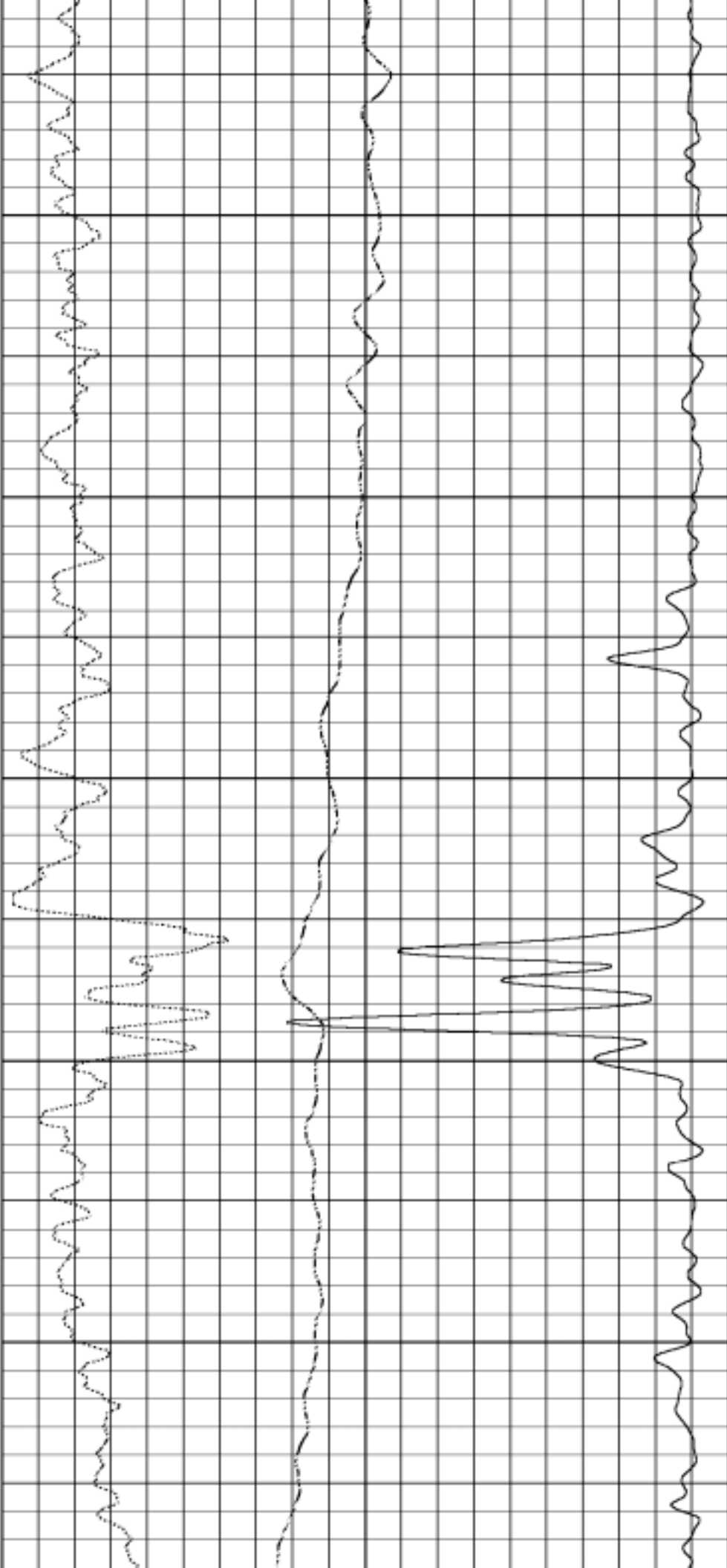
90

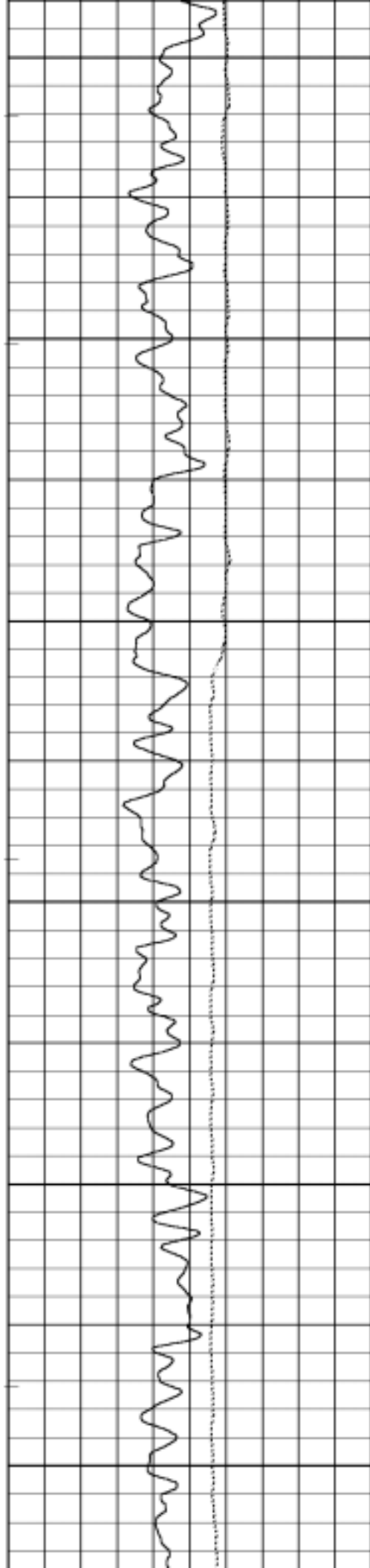
95

100

105

110





115

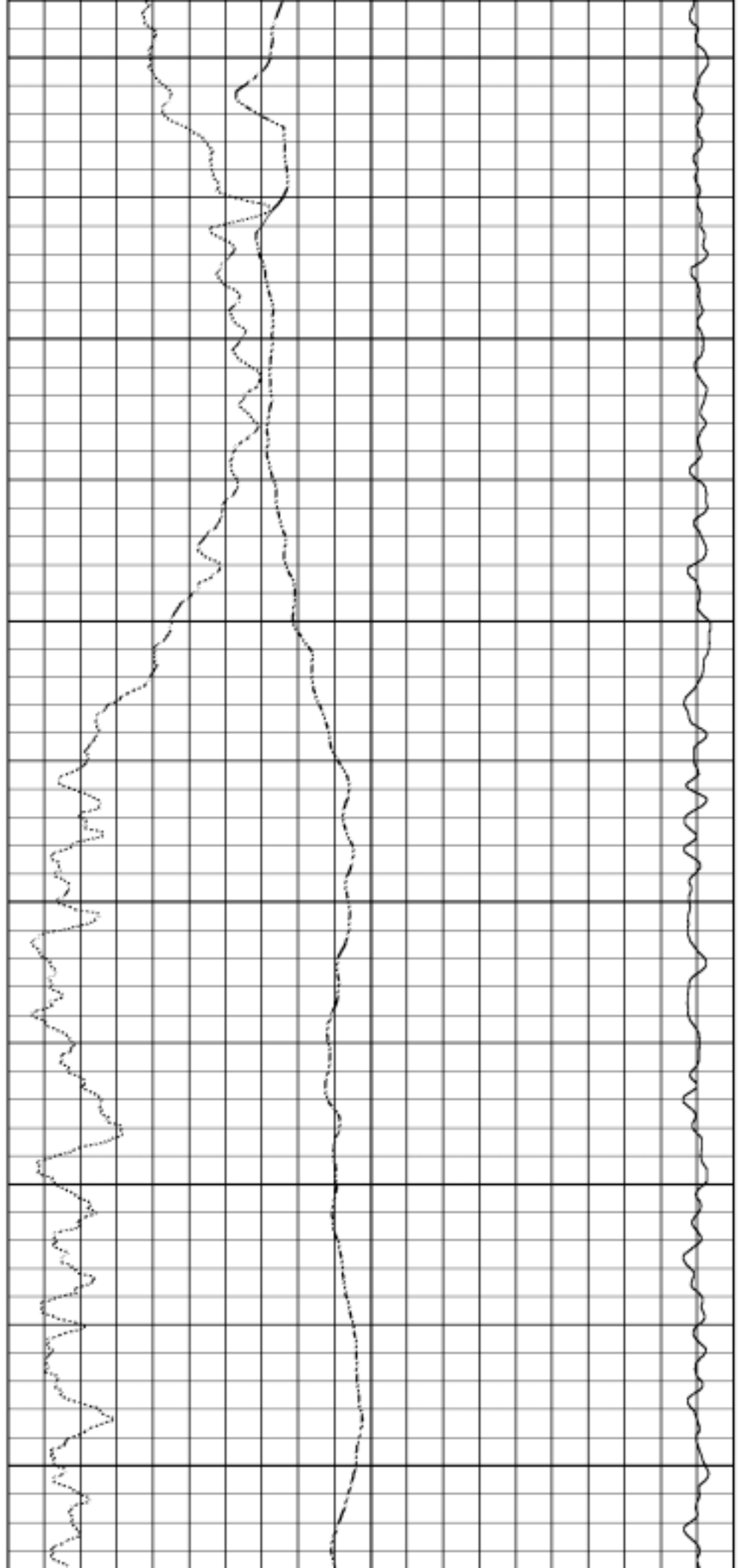
120

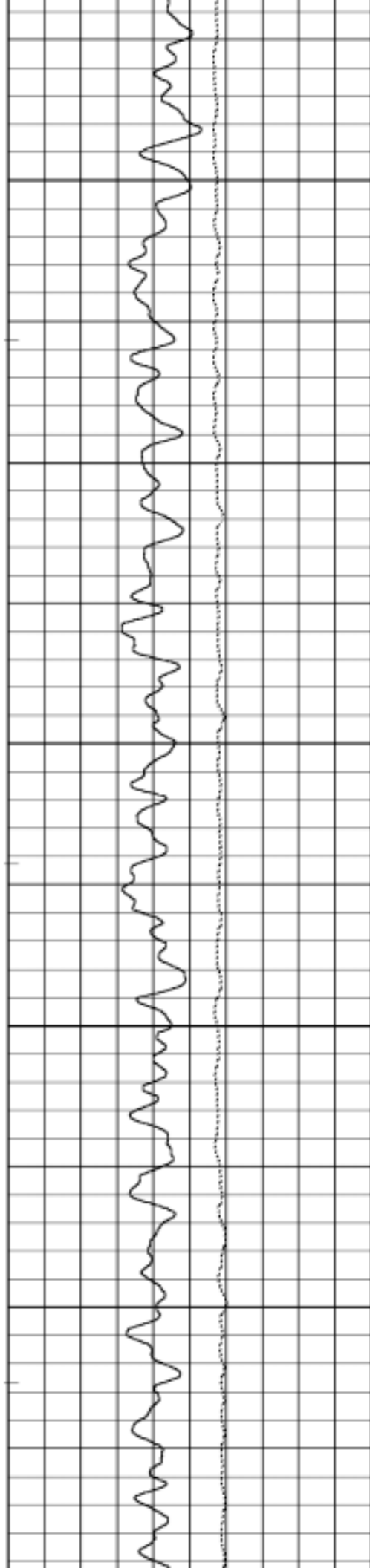
125

130

135

140





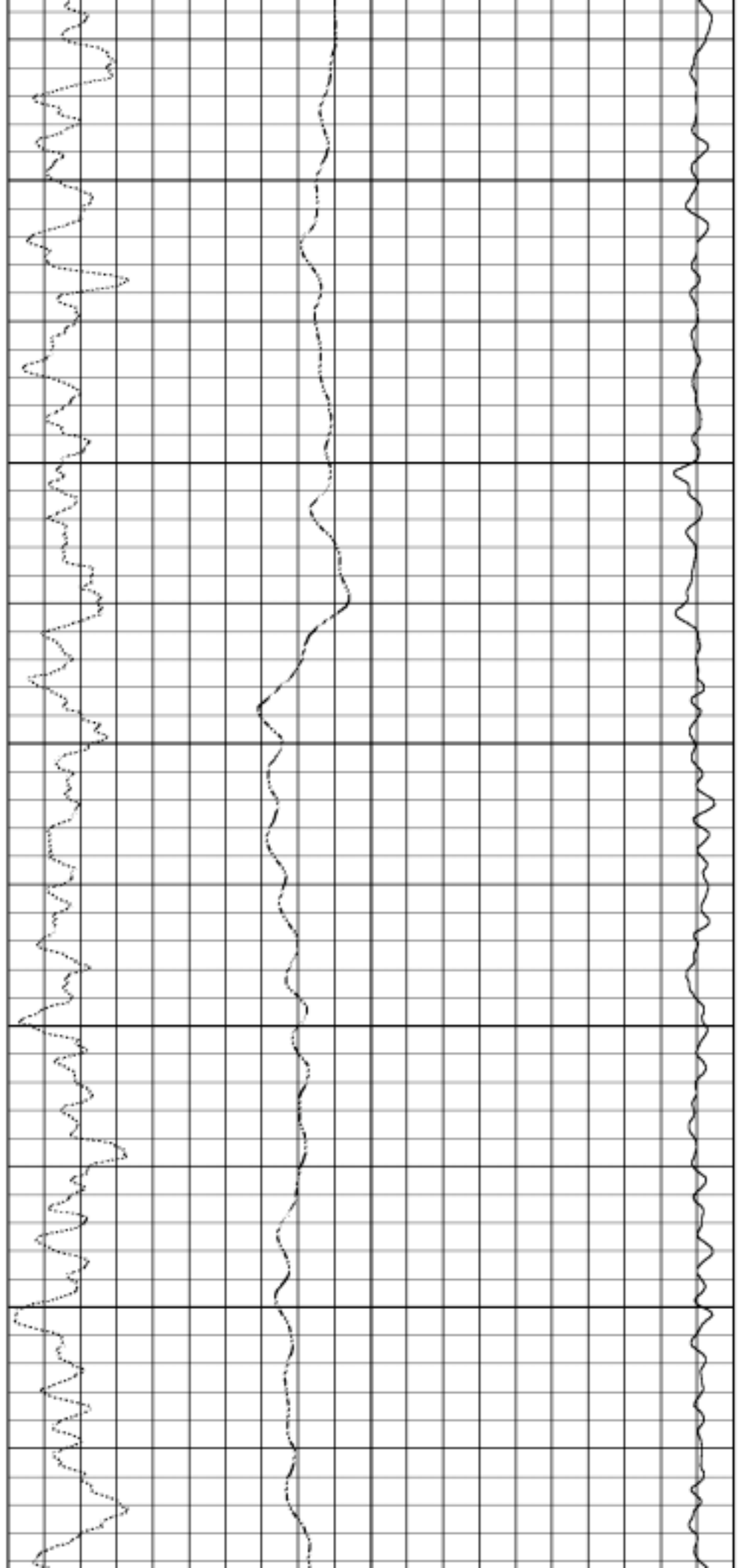
145

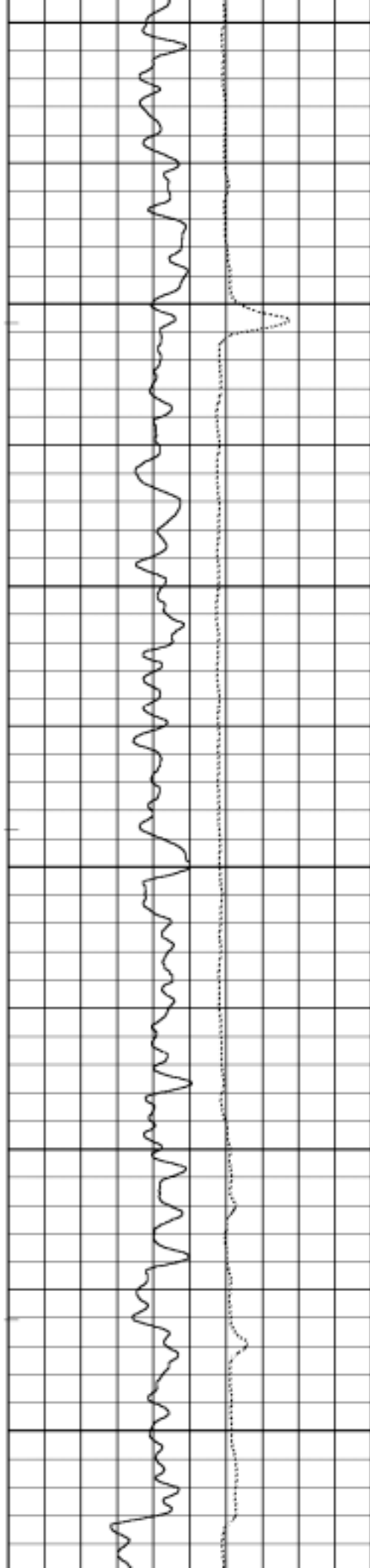
150

155

160

165





170

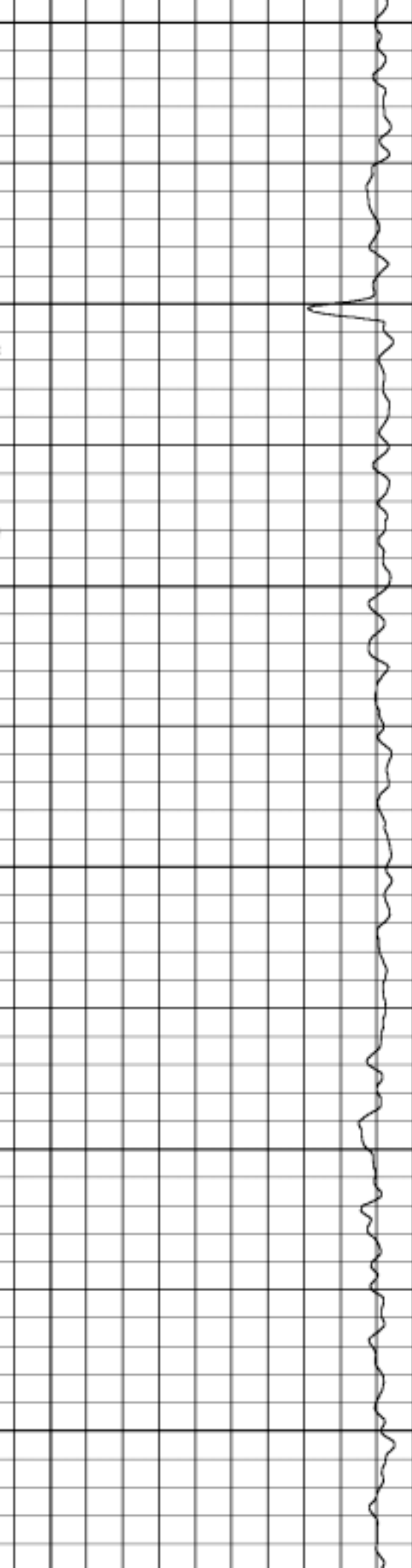
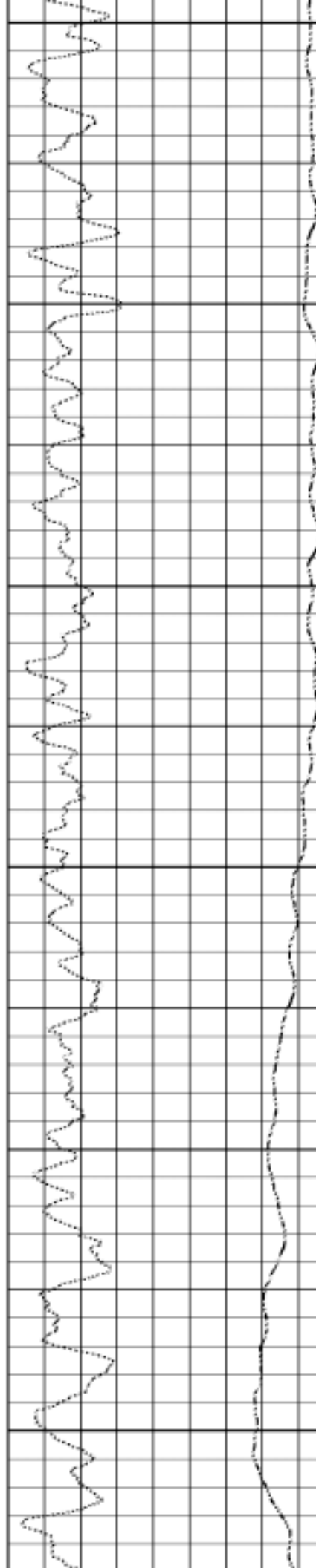
175

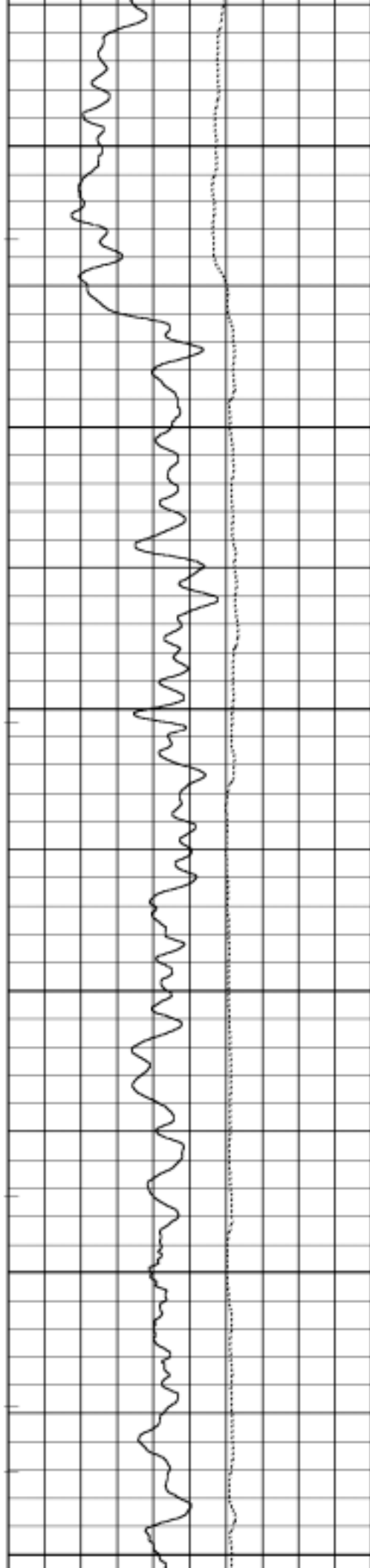
180

185

190

195





200

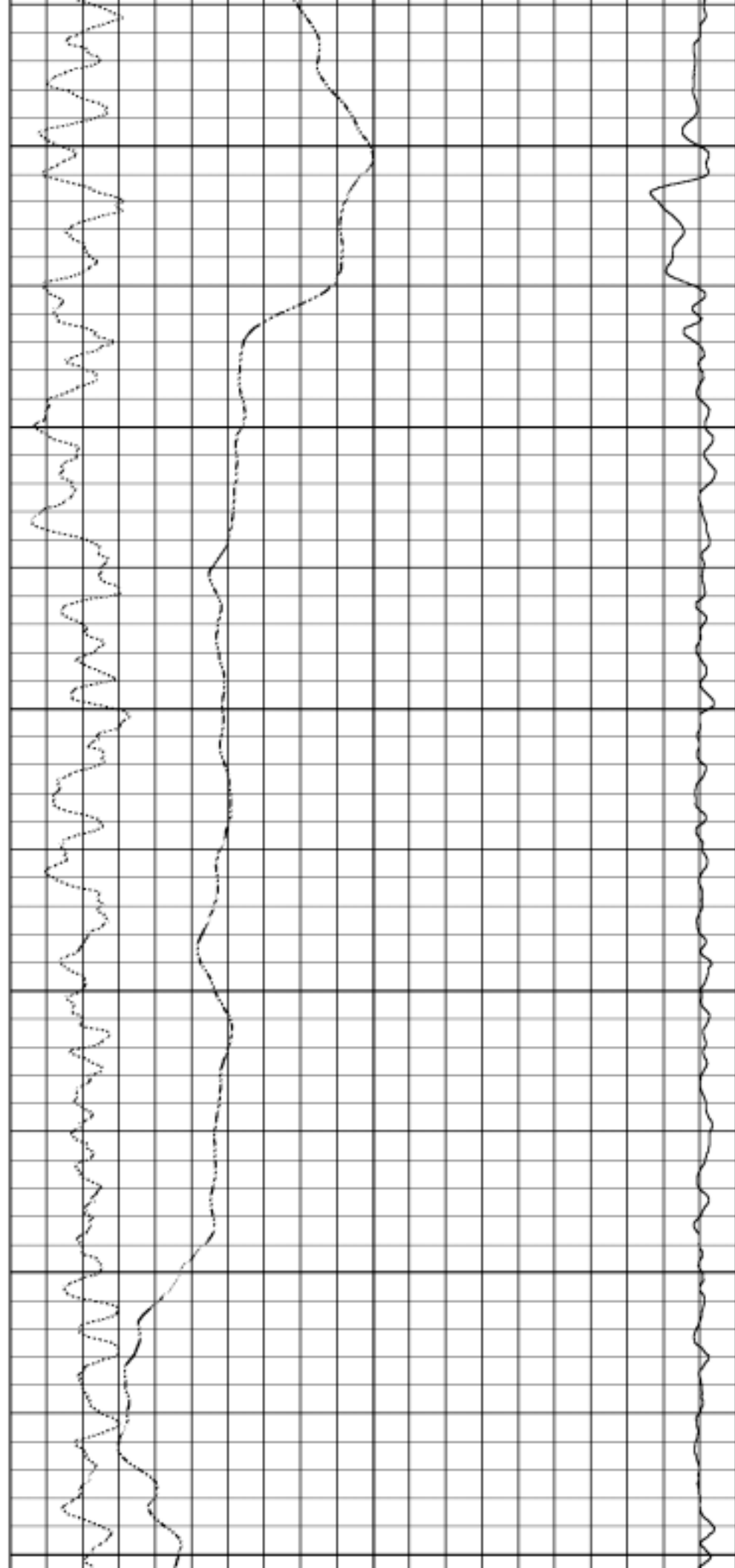
205

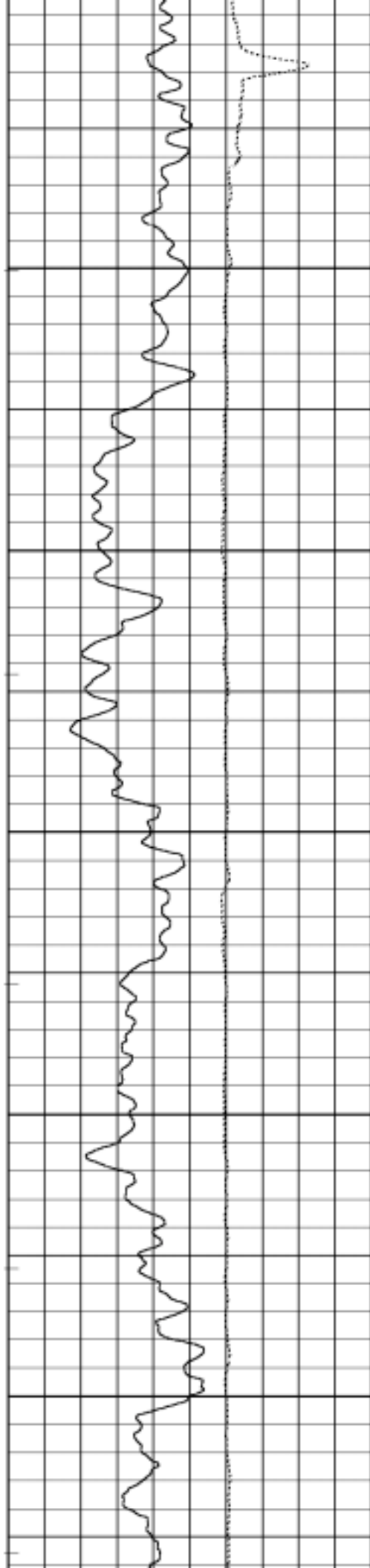
210

215

220

225





250

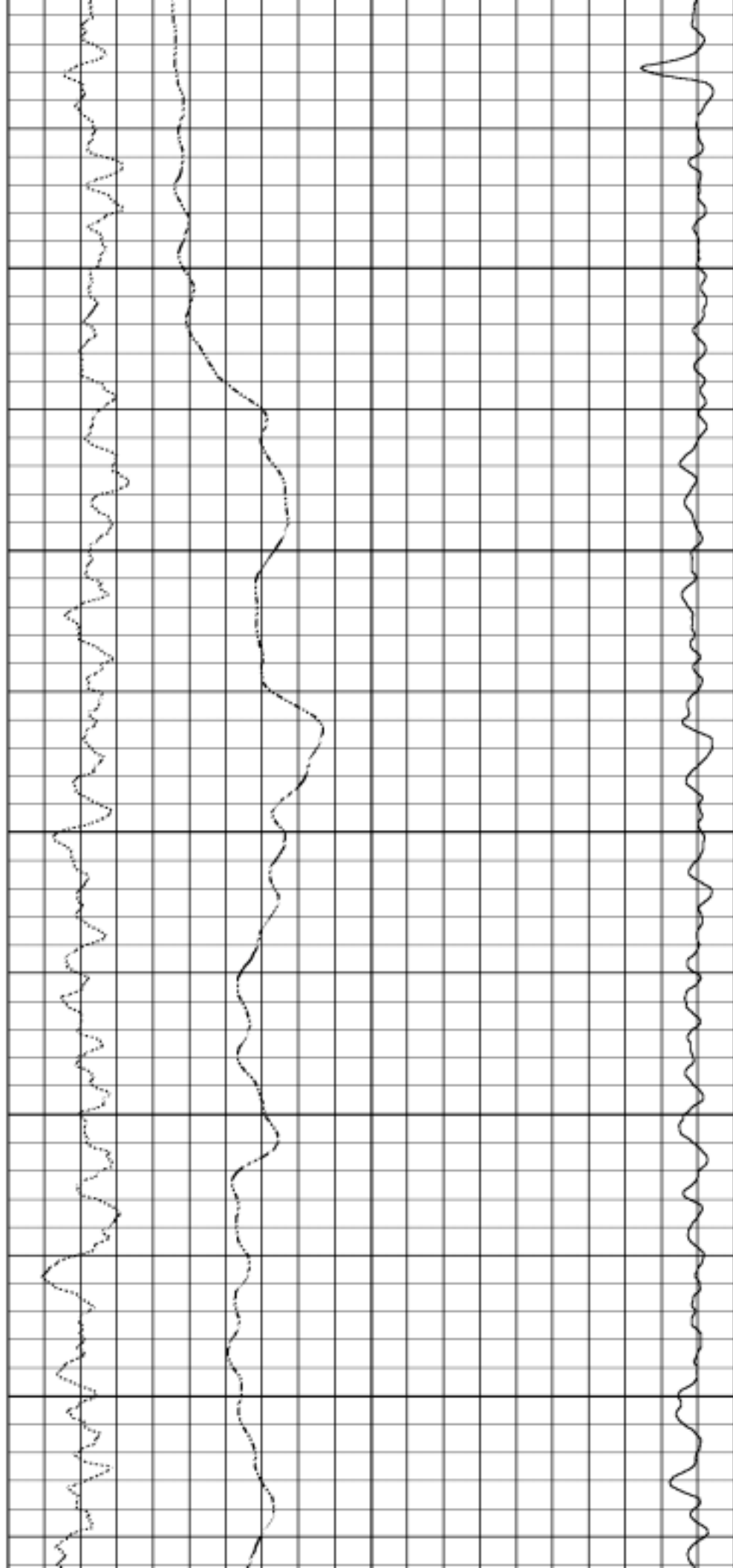
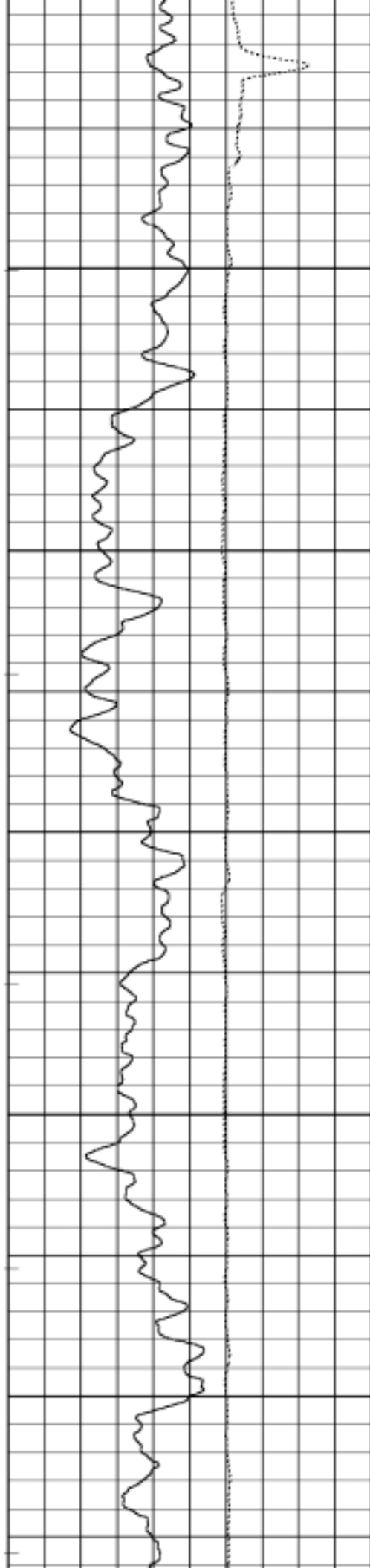
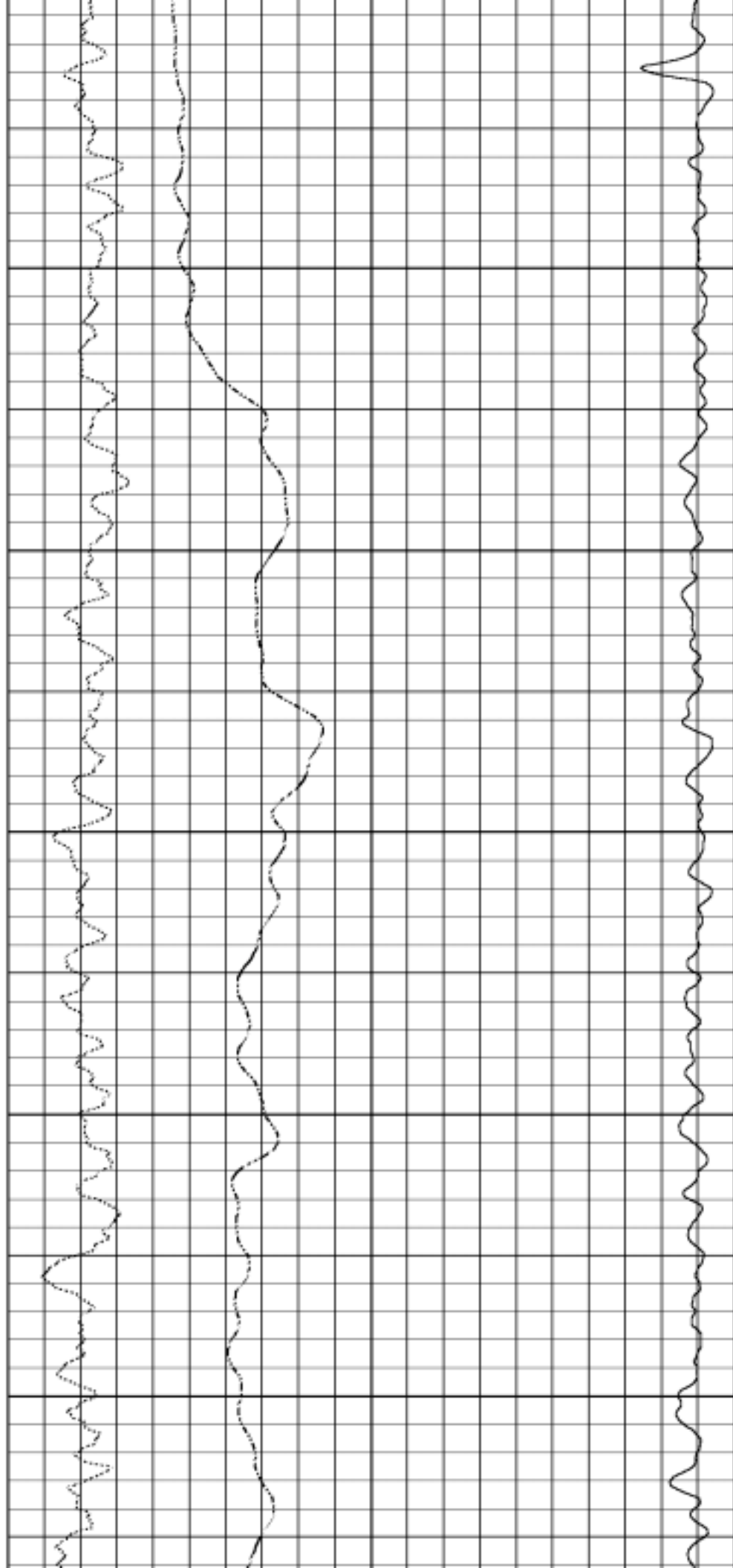
230

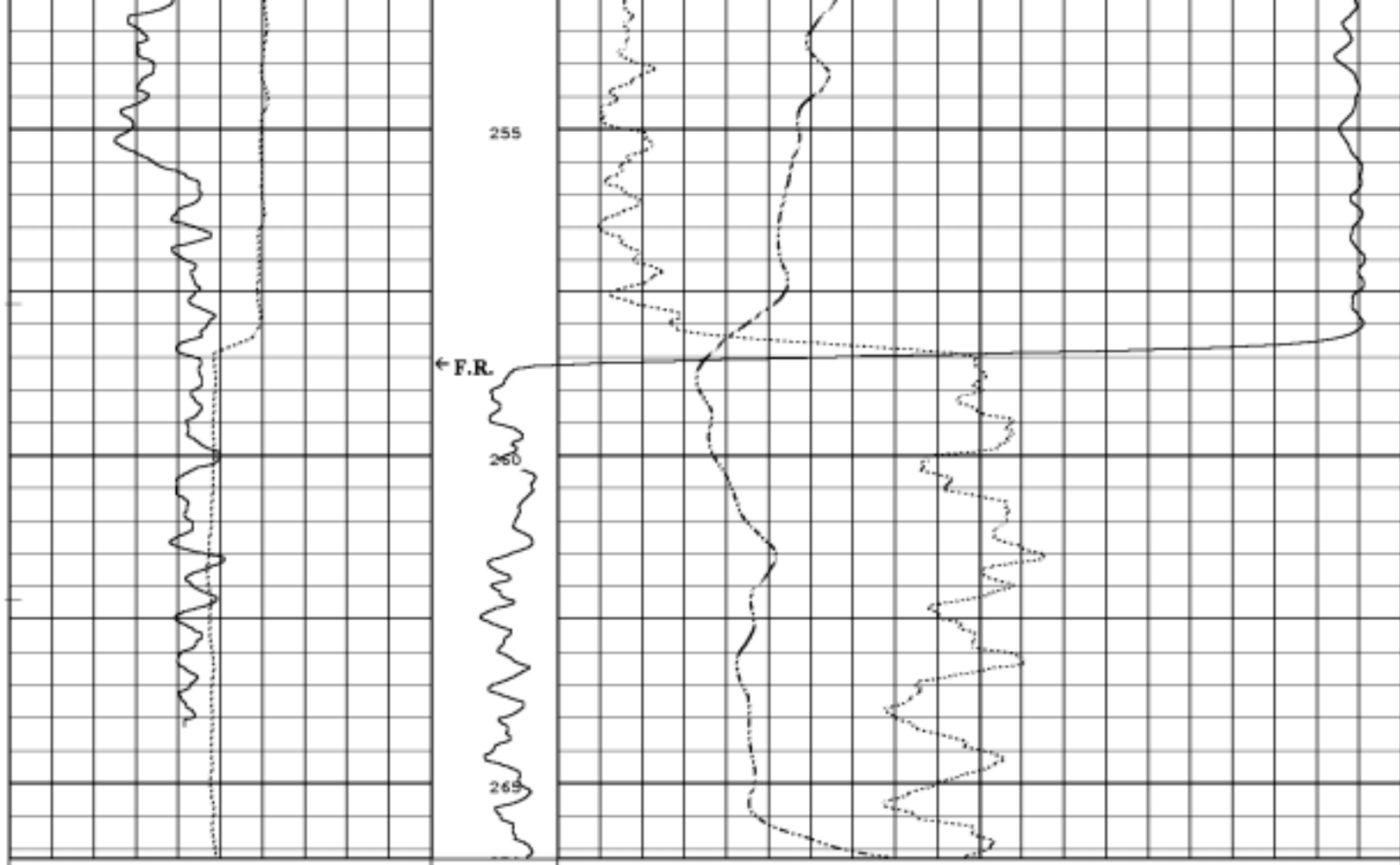
235

240

245

250





0.0      API      150.0  
 Gamma Ray

50.0      150      250.0  
 Caliper mm

1.2      1.50      2.7  
 Density (g/cc)

15      350  
 Ohms  
 Resistance

20      -10  
 Shale Potential ( mv )

Time Mark [60.0 s]

RUN: RAV-11-02B  
 DIR.: UP  
 DATE: 08/03/11  
 TIME: 17:28:33

### RAV-11-02B

START: 266.10m  
 STOP: -1.00m  
 RES.: 0.05 m  
 SCALE: 100:1 m

RUN: RAV-11-02B GAMMA RAY  
 DIR.: UP  
 DATE: 08/03/11  
 TIME: 12:13:42

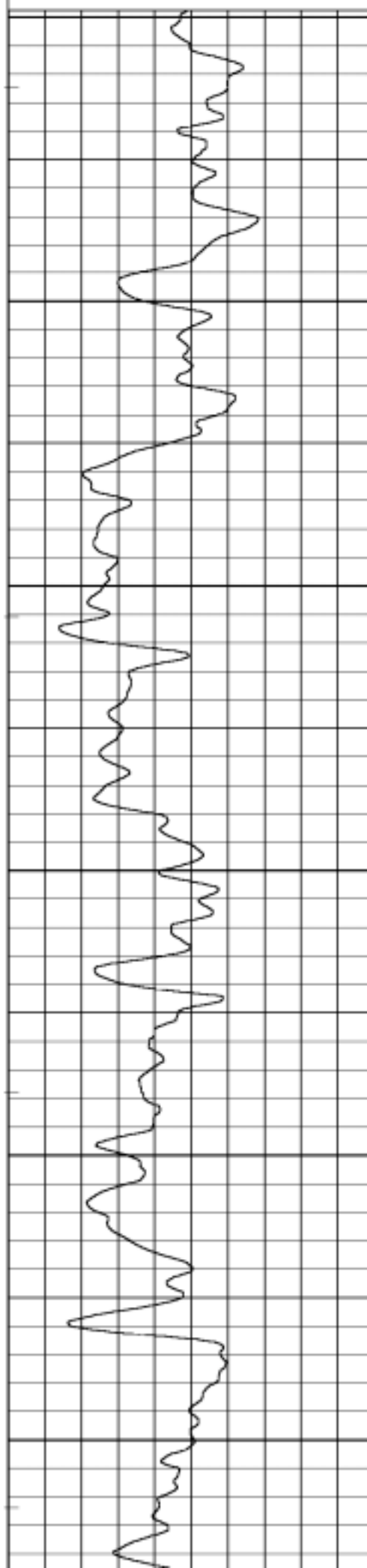
### GAMMA RAY LOGGED THROUGH DRILL PIPE

START: 396.60m  
 STOP: 225.10m  
 RES.: 0.05 m  
 SCALE: 100:1 m

Time Mark [60.0 s]

0.0      API      100.0  
 GAMMA RAY





225

230

235

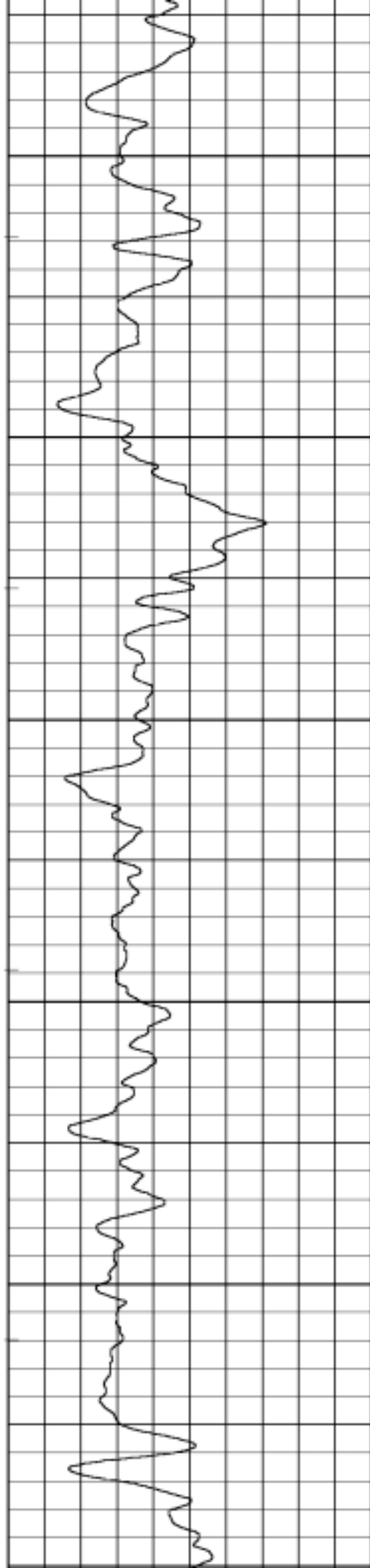
240

245

COLLAR

250

← DRILL COLLARS EVERY 6.1 METERS



255

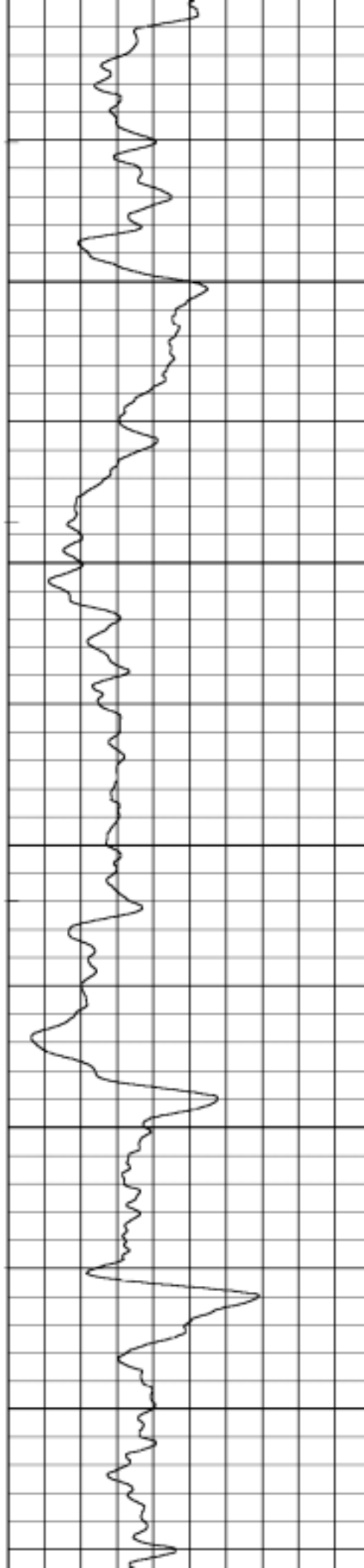
260

265

270

275

280



280

285

290

295

300

305

COLLAR

310

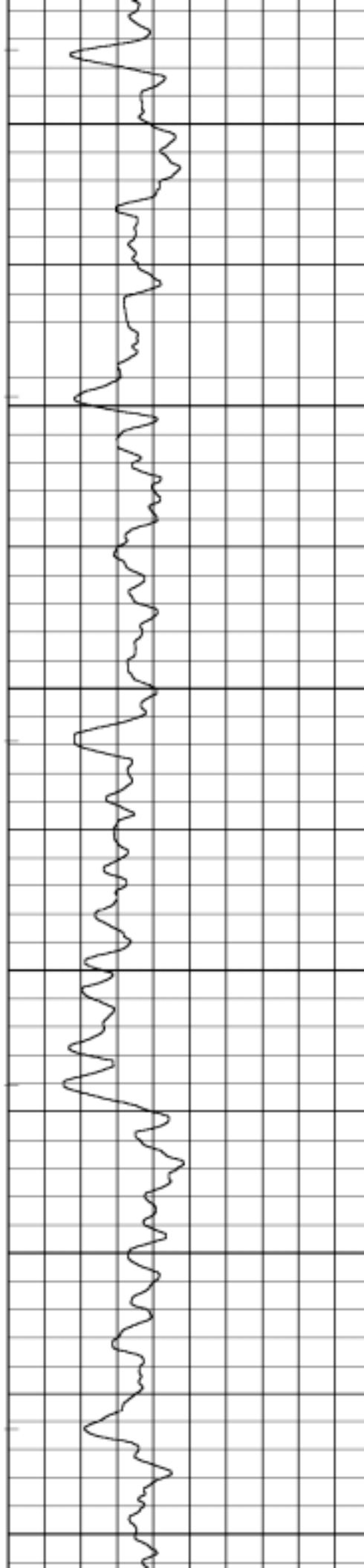
315

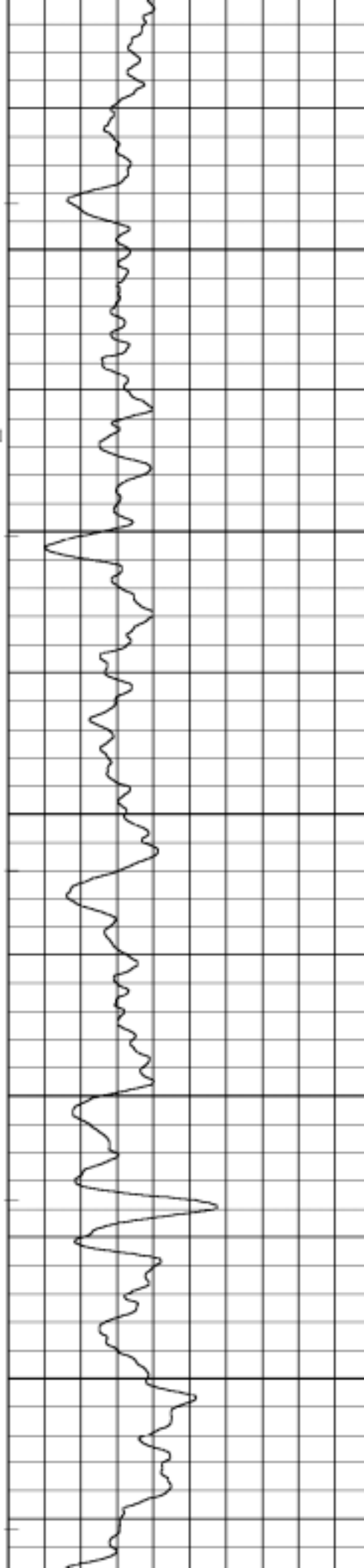
320

325

330

335





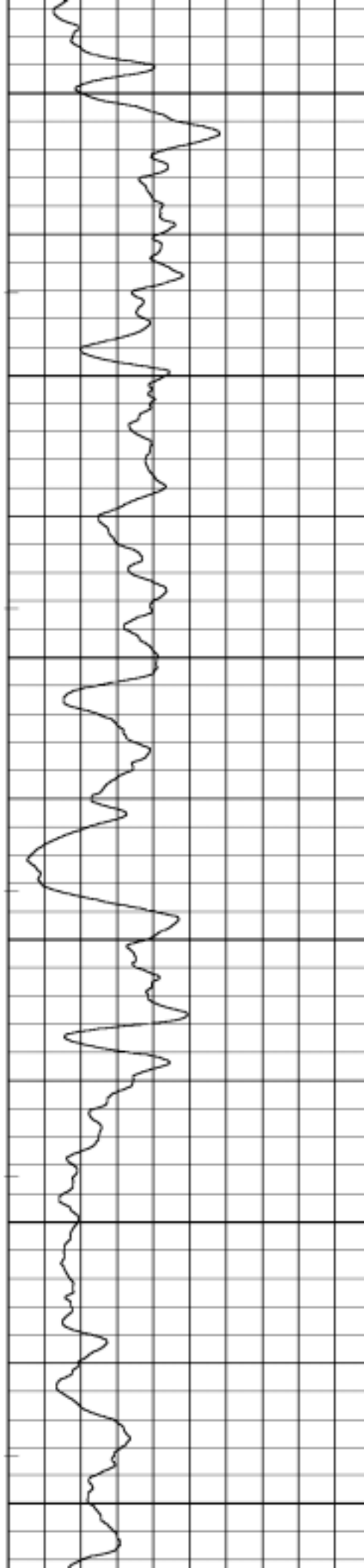
340

34<sup>R</sup>  
COLLAR

350

355

360



365

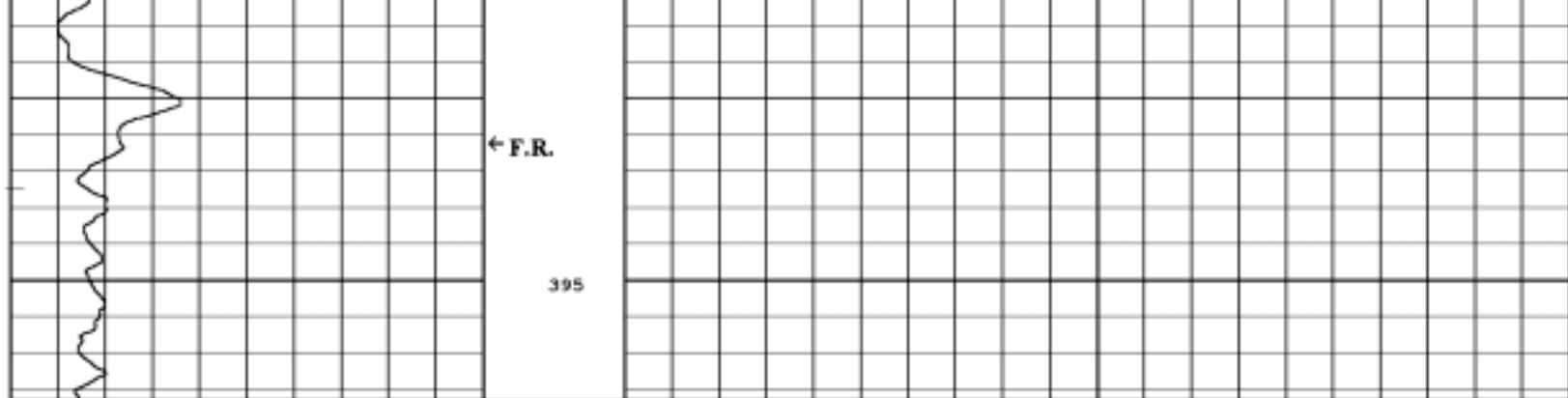
370

375  
COLLAR

380

385

390



0.0                      API                      100.0  
GAMMA RAY

Time Mark [60.0 s]

RUN: RAV-11-02B GAMMA RAY  
DIR.: UP  
DATE: 08/03/11  
TIME: 12:13:42

# RAV-11-02B GAMMA RAY

START: 396.60m  
STOP: 225.10m  
RES.: 0.05 m  
SCALE: 100:1 m

# ELECTROLOG SERVICES INC.

GAMMA RAY  
S.P. / RESISTANCE  
DENSITY / CALIPER  
LOG

FILING #		Company COMPLIANCE COAL CORPORATION	
LSD.	Well	RAV-11-02B	
SEC.	Field	RAVEN PROJECT	
TWP.	Province	BRITISH COLUMBIA	
RGE.	Location		
W.	LSD.	SEC.	TWP.
	RGE.	W.	
		OTHER SERVICES DEVIATION SURVEY	

Permanent Datum GROUND LEVEL Elevation K.B.  
Log Measured From GROUND LEVEL Above Perm. Datum G.L.

Date	3 AUGUST 2011	Type Fluid	WATER
Run Number	ONE	Fluid Level	10.1
Type Log	GR-DR- CAL-RES-SP	Wellhead Pressure	0
Depth - Driller (OH)	395.4 m	Max. Temp. °C	N/A
Depth - Driller (CH)		Oper. Rig Time	2.5 HR.
P.B.T.D. By Logger	DRIDGED AT 259.5 m	Recorded By	W. PUBANE
Bottom Log Interval	258.5	Witnessed By	O. CULLINGHAM
Logged Interval	258.5	Apparent Cement Top	N/A
Top Log Interval	00.0	Hoist Unit# / Loc.	WIRELINE #1
Zone(s) of Interest		Program	WIN 98
Gun Type and Size		DRILL RIG	
Gun Charges			

CASING RECORD	SIZE	Kg/m	GRADE	TYPE JOINT	FROM	TO
DRILL BIT	152.4 mm				SURF.	T.D.
SURF. CASING	168.0				SURF.	40
PLASTIC LINER						

GAMMA RAY LOGGED THROUGH DRILL PIPE TO T.D. ONLY BOTTOM OF LOG PRESENTED 225-395M  
DRILL COLLARS PRESENT AS LOWER COUNTS ON GAMMA RAY DUE TO DIFFERENCE OF METAL  
THICKNESS

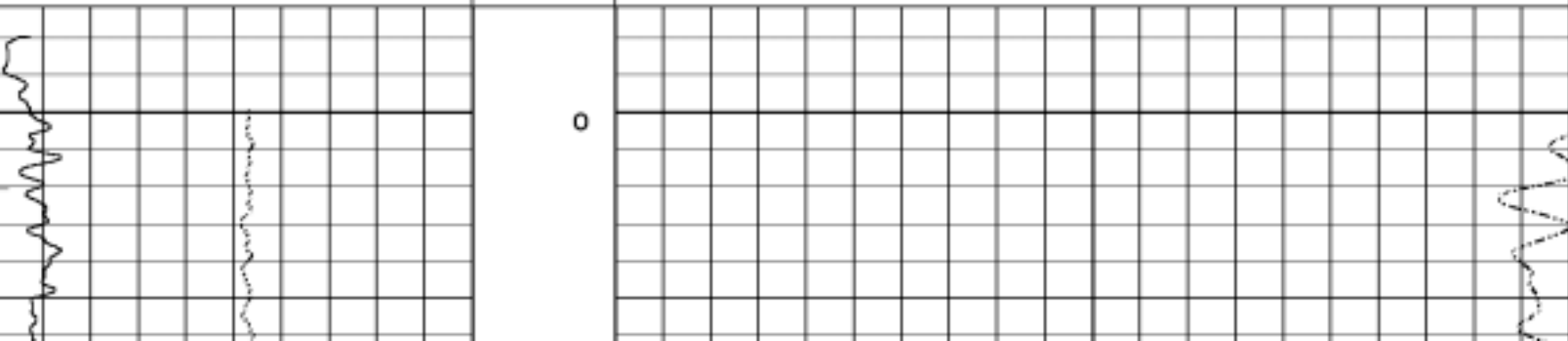
START: 266.10m  
STOP: -1.00m  
RES.: 0.05 m  
SCALE: 200:1 m

## RAV-11-02B

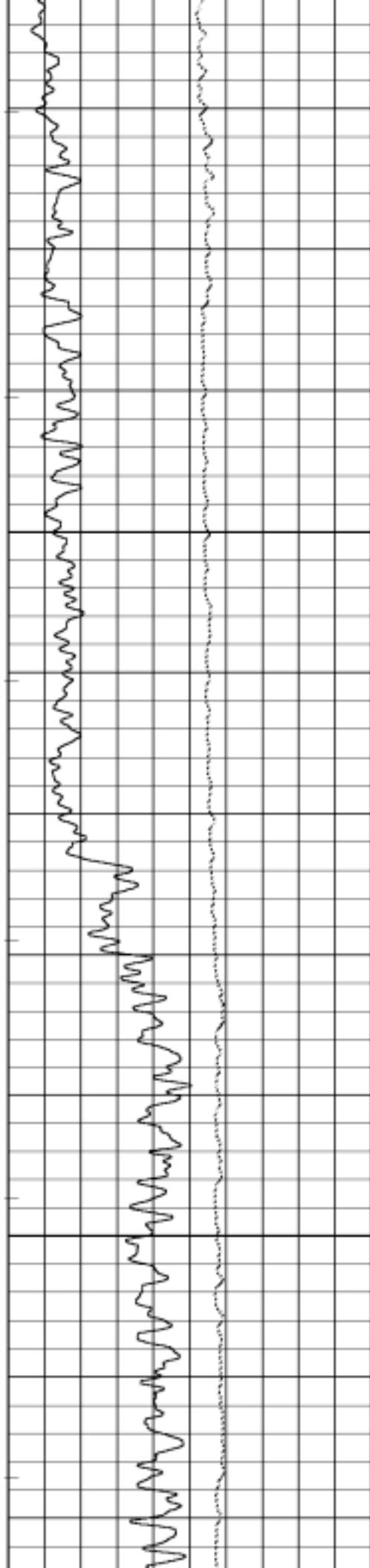
RUN: RAV-11-02B  
DIR.: UP  
DATE: 08/03/11  
TIME: 17:28:33

Time Mark [60.0 s]

20	Shale Potential ( mv )	-10
15	Ohms	350
1.2	Resistance	2.7
1.50	Density (g/cc)	
50.0	Caliper mm	
150	API	
250.0	Gamma Ray	150.0

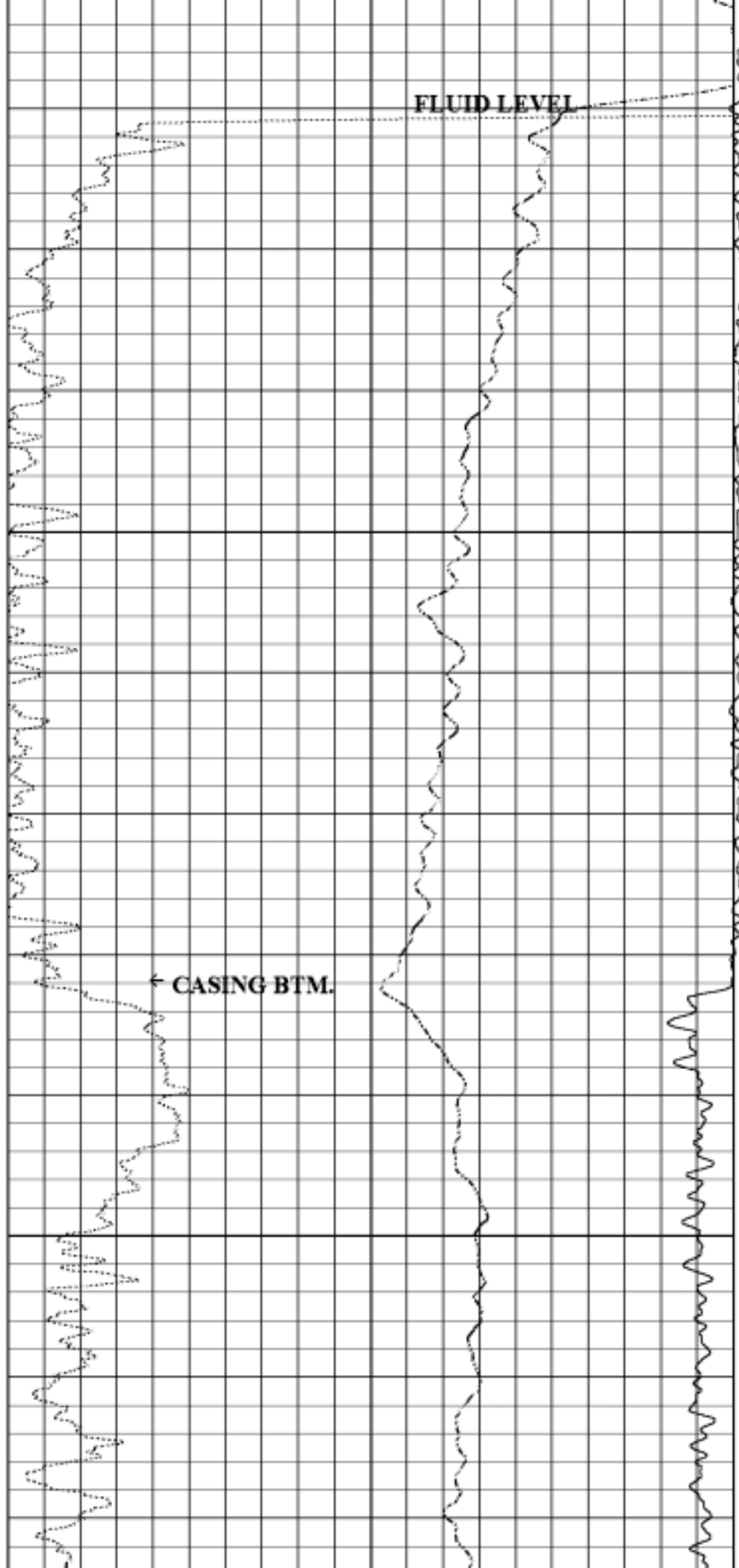






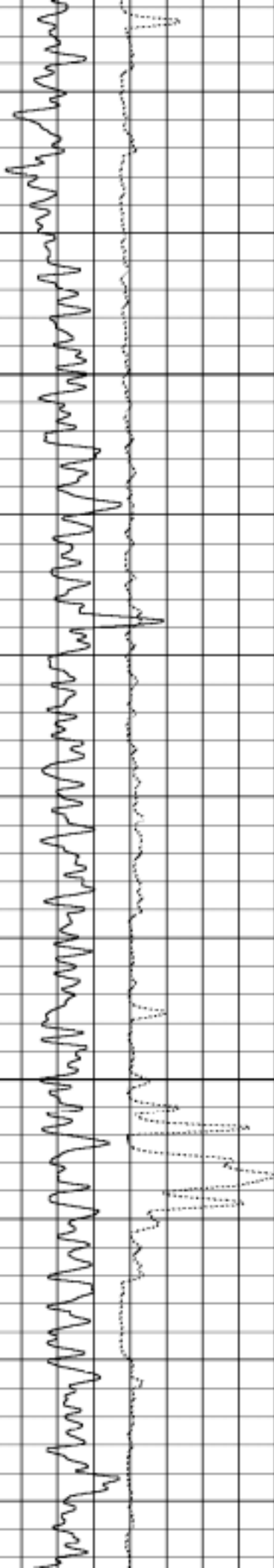
25

50



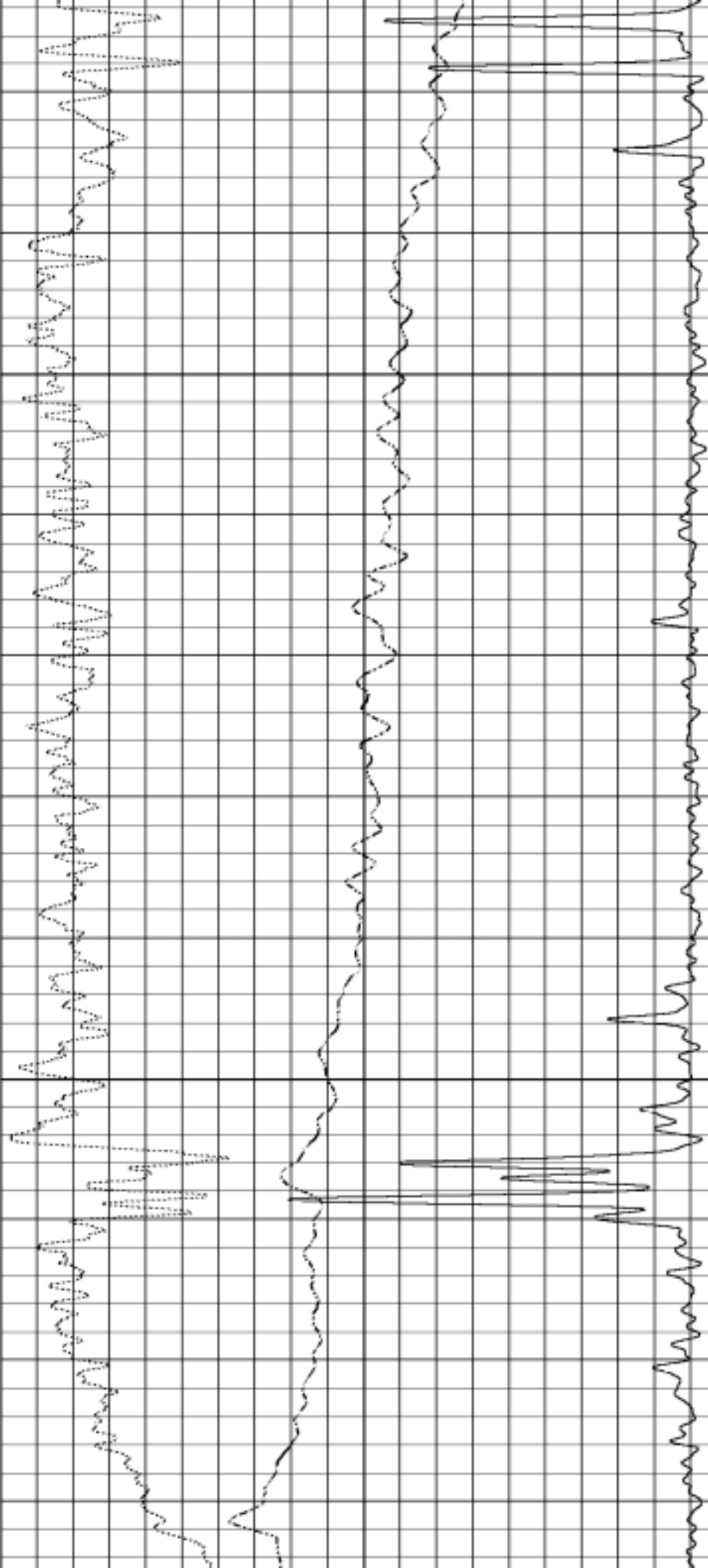
FLUID LEVEL

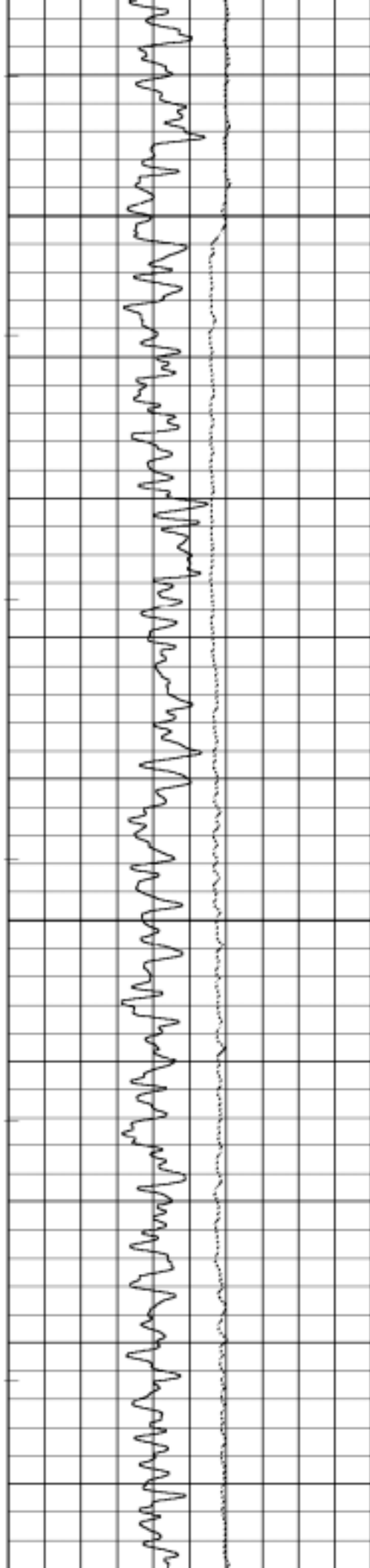
CASING BTM.



75

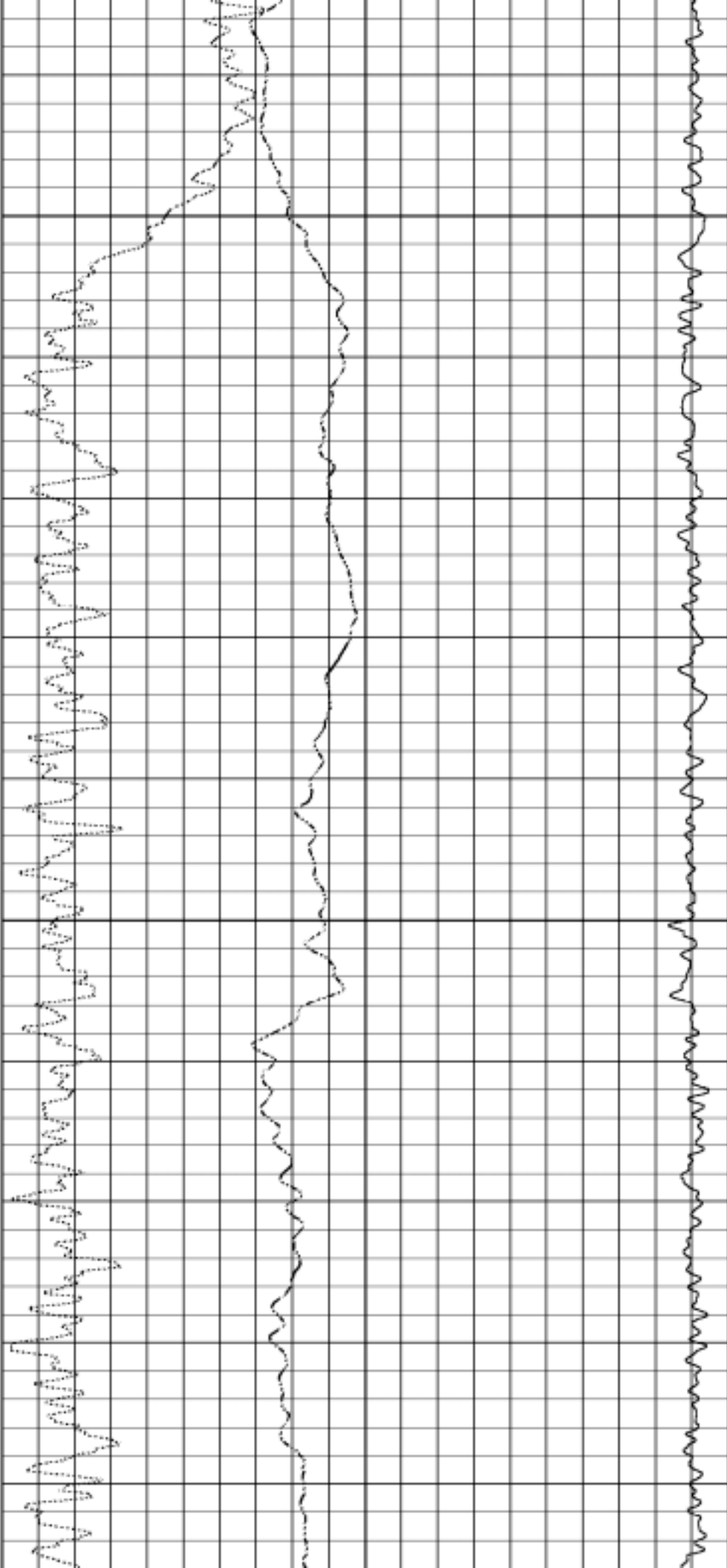
100

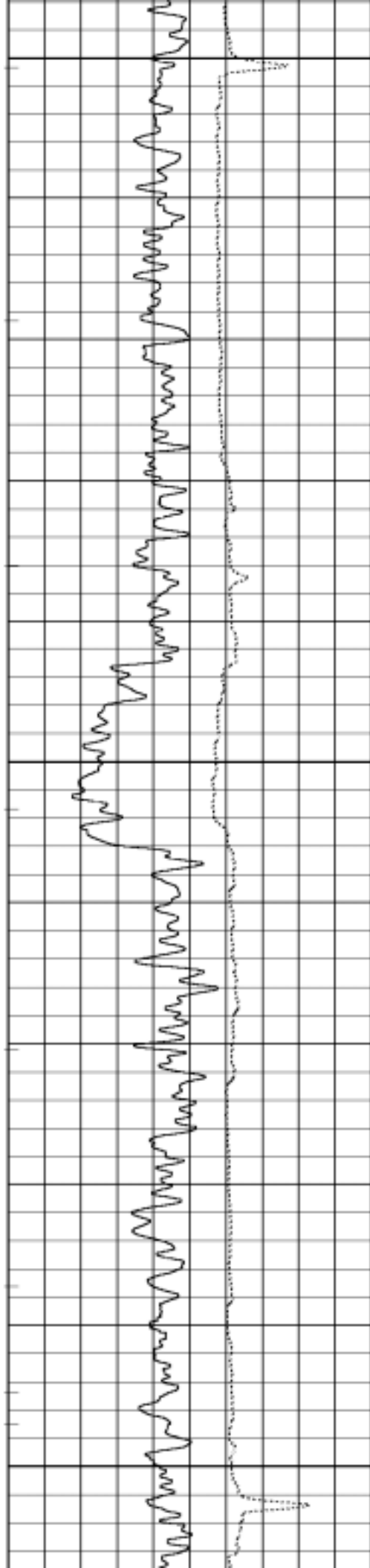




125

150

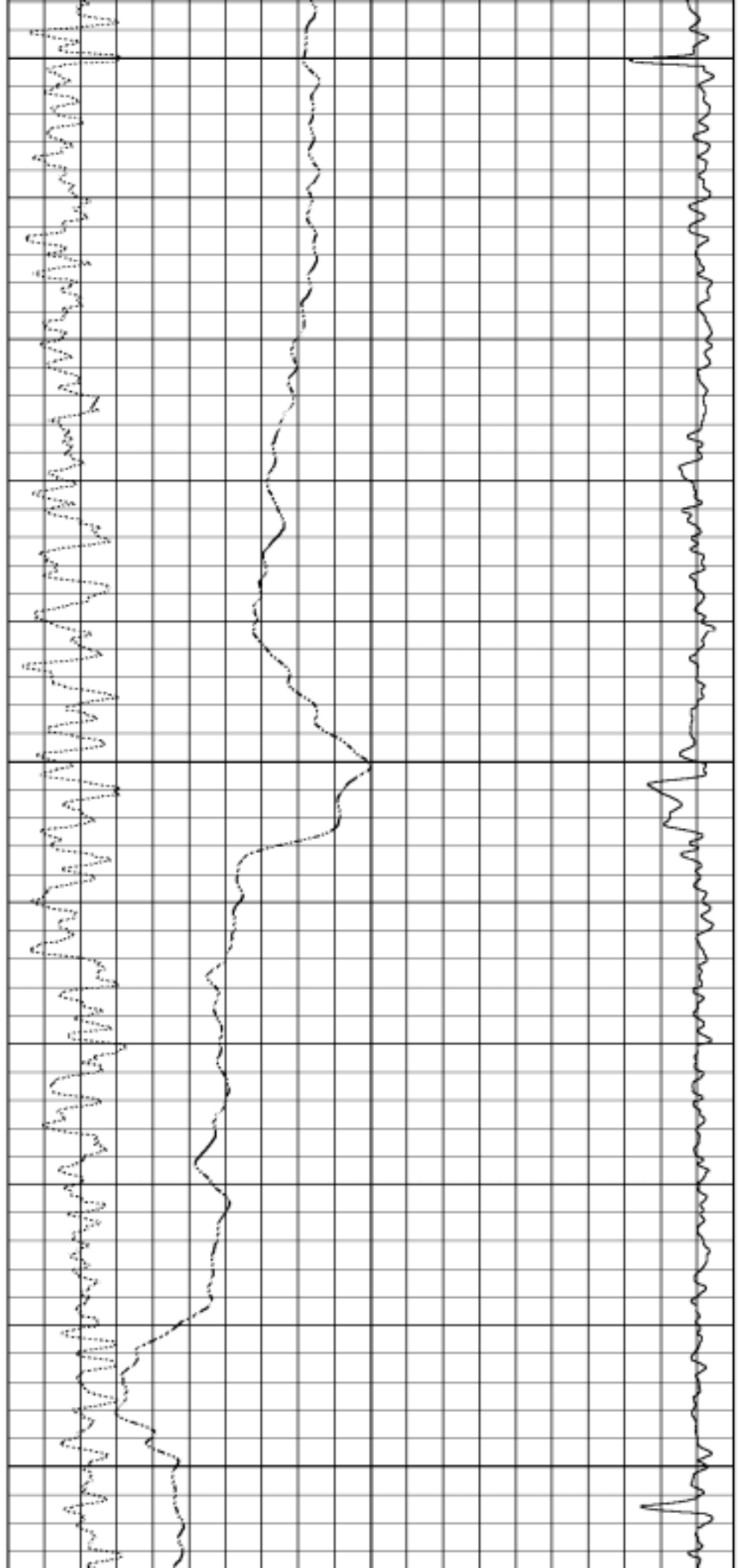


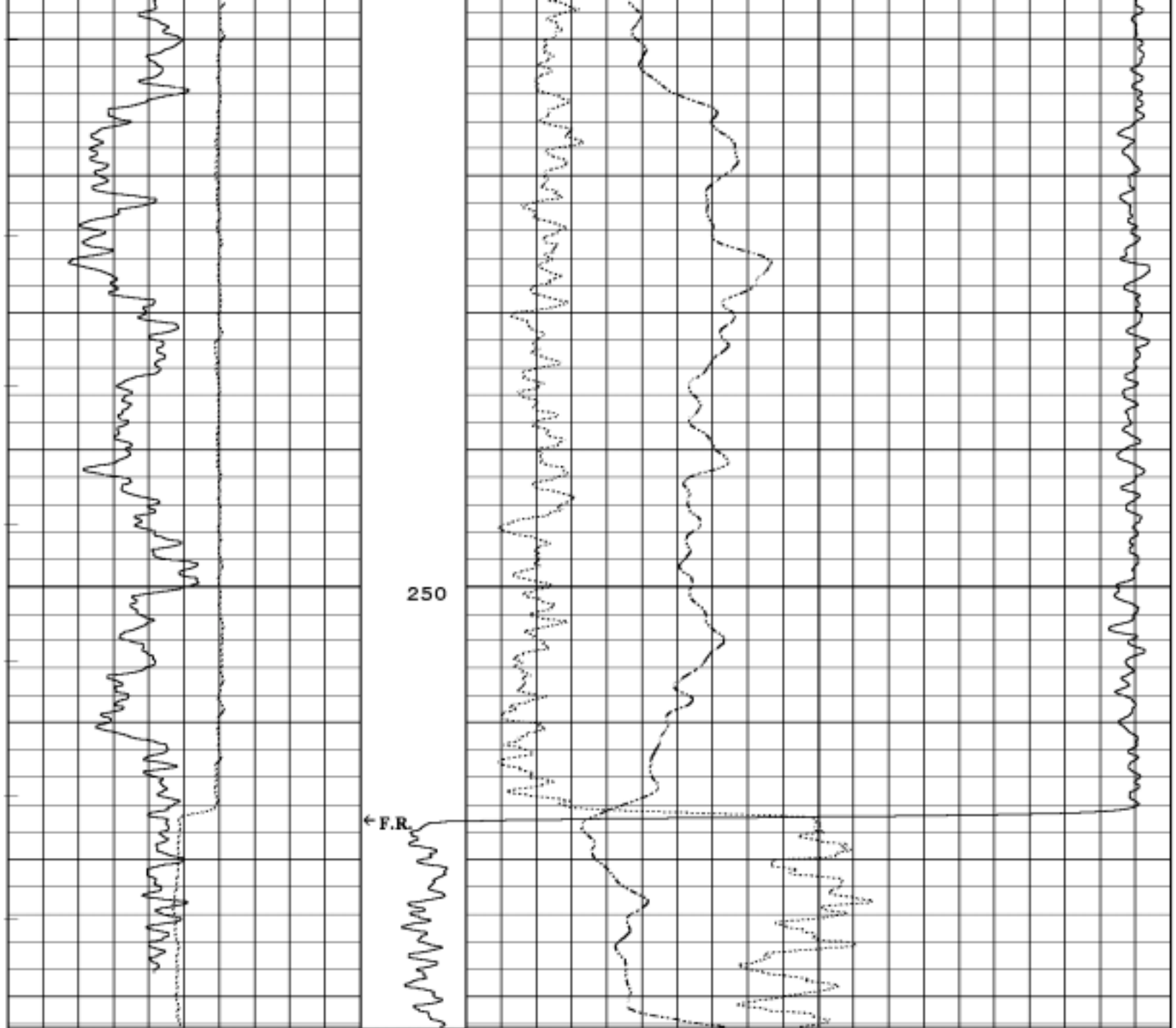


175

200

225





0.0      API      150.0  
 Gamma Ray

50.0      150      250.0  
 Caliper mm

1.2      1.50      2.7  
 Density (g/cc)

15      Ohms      350  
 Resistance

20      Shale Potential ( mv )      -10

Time Mark [60.0 s]

RUN: RAV-11-02B  
 DIR: UP  
 DATE: 08/03/11  
 TIME: 17:28:33

RAV-11-02B

START: 266.10m  
 STOP: -1.00m  
 RES: 0.05 m  
 SCALE: 200:1 m

RUN: RAV-11-02B GAMMA RAY

DIR.: UP

DATE: 08/03/11

TIME: 12:13:42

START: 396.60m

STOP: 225.10m

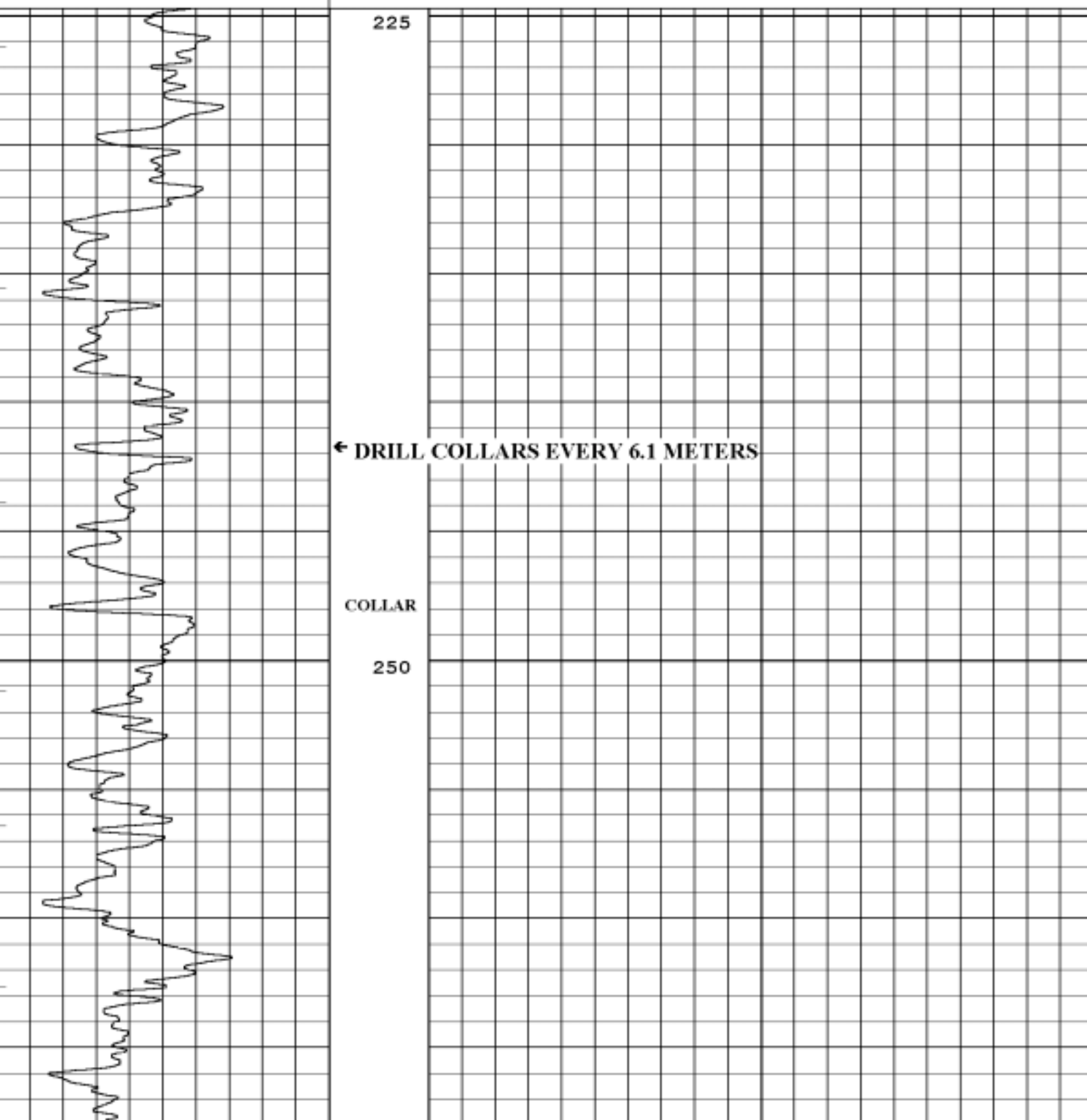
RES.: 0.05 m

SCALE: 200:1 m

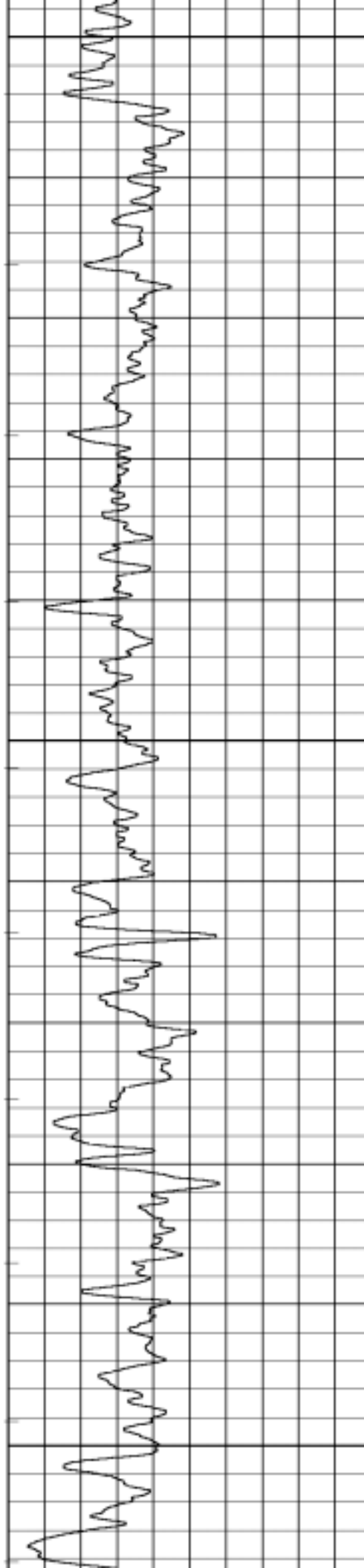
# GAMMA RAY LOGGED THROUGH DRILL PIPE

Time Mark [60.0 s]

0.0                      API                      100.0  
GAMMA RAY







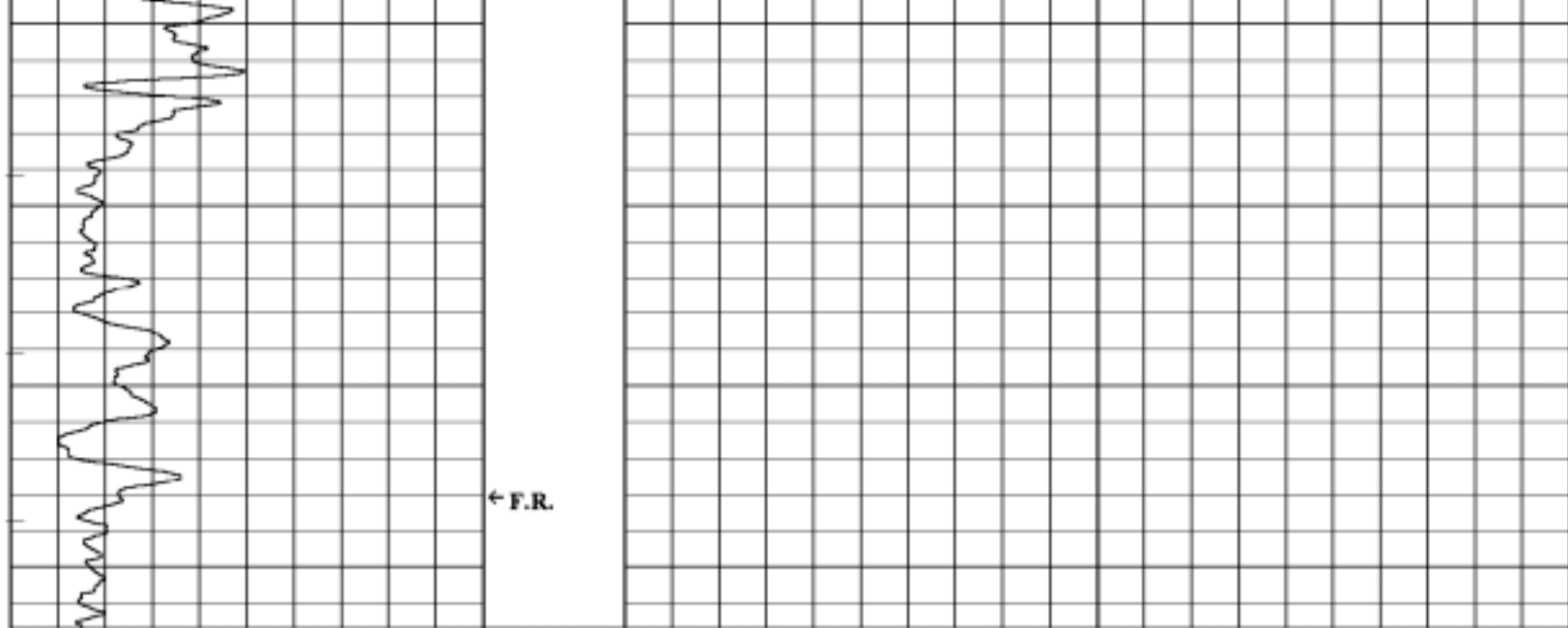
325

COLLAR

350

375  
COLLAR





← F.R.

0.0      API      100.0  
GAMMA RAY

Time Mark [60.0 s]

RUN: RAV-11-02B GAMMA RAY  
DIR.: UP  
DATE: 08/03/11  
TIME: 12:13:42

# RAV-11-02B GAMMA RAY

START: 396.60m  
STOP: 225.10m  
RES.: 0.05 m  
SCALE: 200:1 m



## **APPENDIX B-3**

### **Geophysical Logs of Drill Hole RAV-11-07a**

# ELECTROLOG SERVICES INC.

GAMMA RAY  
S.P. / RESISTANCE  
DENSITY / CALIPER  
LOG

FILING # \_\_\_\_\_ Company COMPLIANCE COAL CORPORATION  
 LSD. Well RAV-11-07A  
 SEC. Field RAVEN PROJECT  
 TWP. Province BRITISH COLUMBIA  
 RGE. Location  
 W. Location  
 LSD. SEC. TWP.  
 RGE. W.

Permanent Datum GROUND LEVEL Elevation K.B.  
 Log Measured From GROUND LEVEL Above Perm. Datum G.L.

Date 11 AUGUST 2011 Type Fluid WATER  
 Run Number ONE Fluid Level 124.2  
 Type Log GR-DEN-CAL-RES-SP Wellhead Pressure 0  
 Depth - Driller (OH) 352.65 m Max. Temp. °C N/A  
 Depth - Driller (CH) Oper. Rig Time 2.5 HR.  
 P.B. T.D. By Logger 351.7 m Recorded By W. PUBANS  
 Bottom Log Interval 351.0 Witnessed By O. CULLINGHAM  
 Logged Interval 351.0 Apparent Cement Top N/A  
 Top Log Interval 00.0 Hoist Unit# / Loc. WIRELINE #1  
 Zone(s) of Interest Program WTN 98  
 Gun Type and Size DRILL RIG  
 Gun Charges

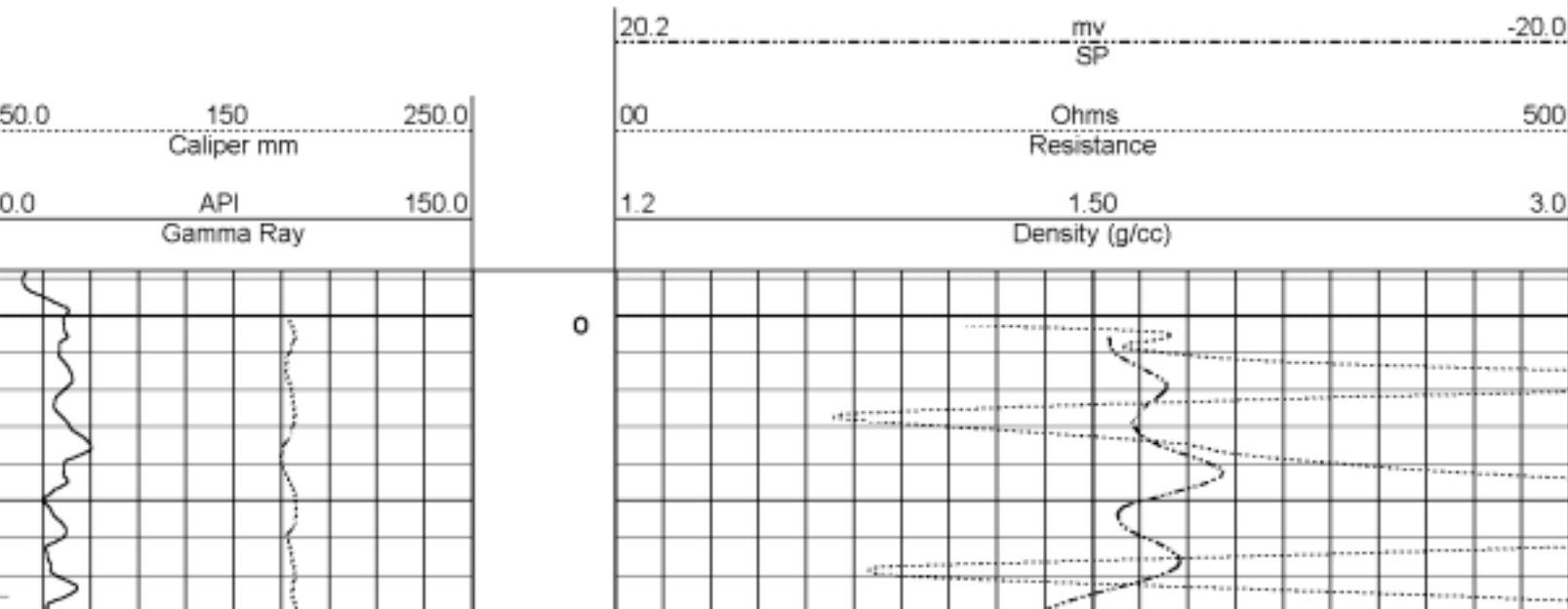
CASING RECORD	SIZE	Kg/m	GRADE	TYPE JOINT	FROM	TO
DRILL BIT	152.4 mm				SUBP.	T.D.
SURE, CASING	168.0				SUBP.	24.0
PLASTIC LINER						

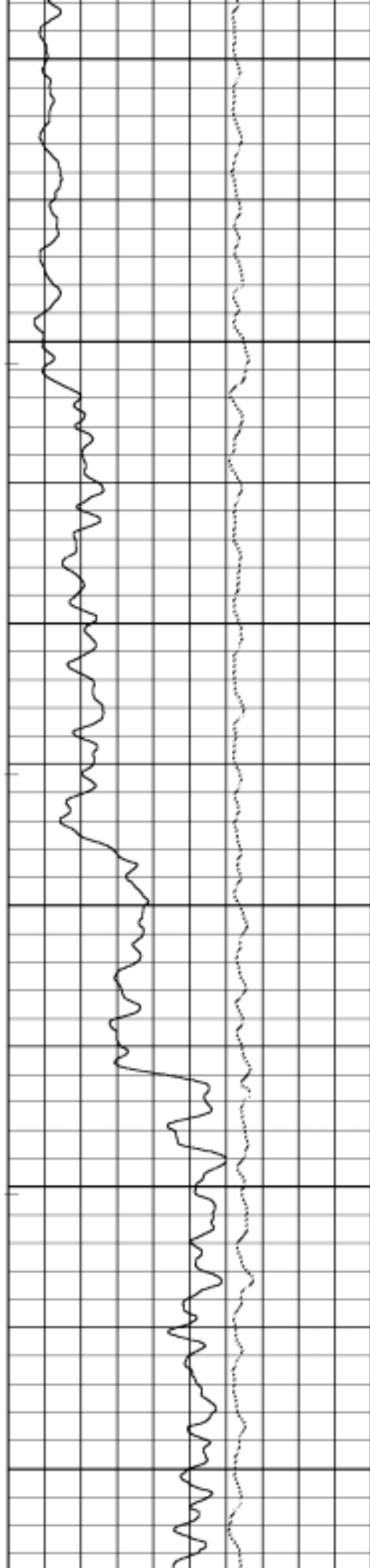
START: 356.20m  
 STOP: -0.30m  
 RES.: 0.05 m  
 SCALE: 100:1 m

## RAV-11-07A

RUN: RAV-11-07A  
 DIR.: UP  
 DATE: 08/11/11  
 TIME: 16:31:30

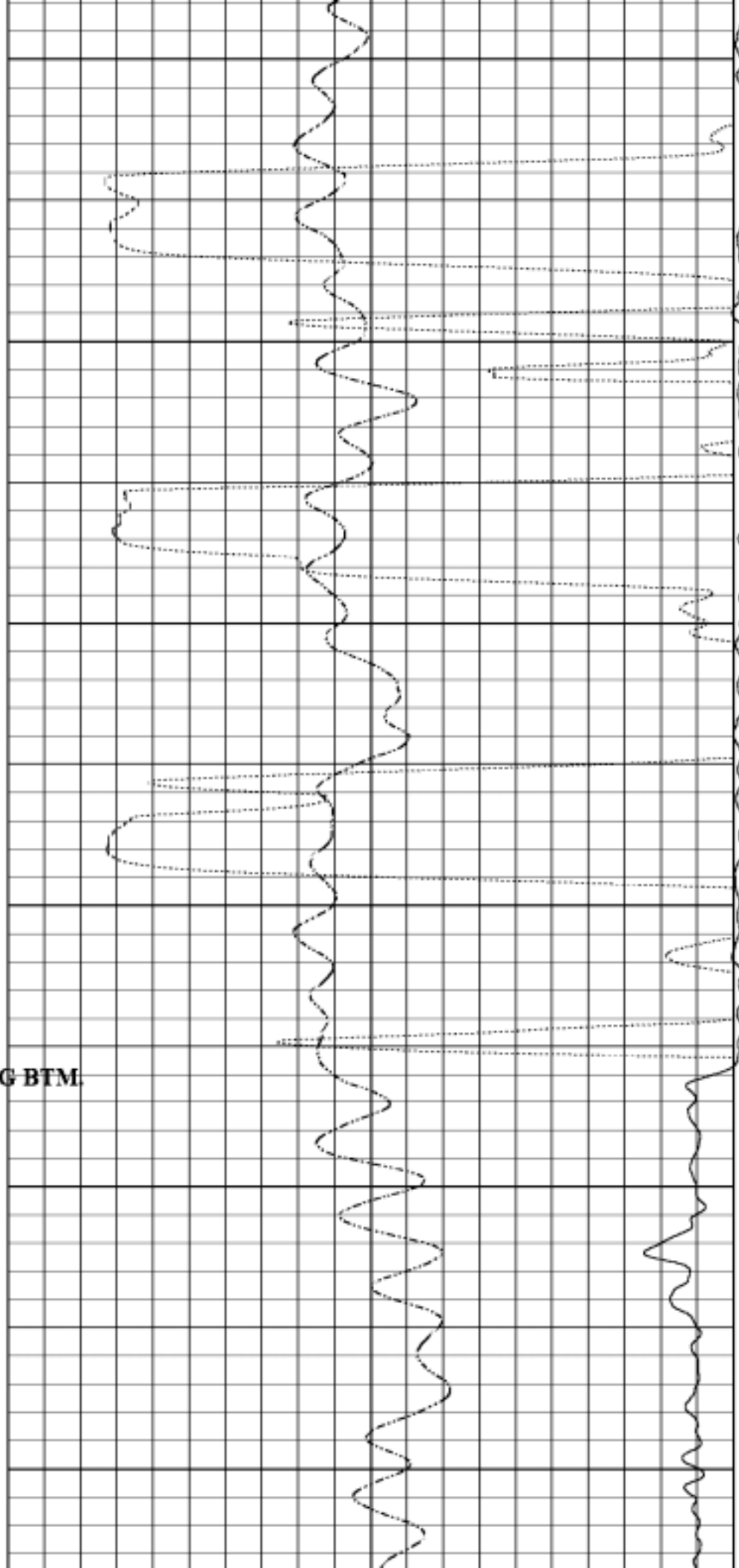
Time Mark [60.0 s]

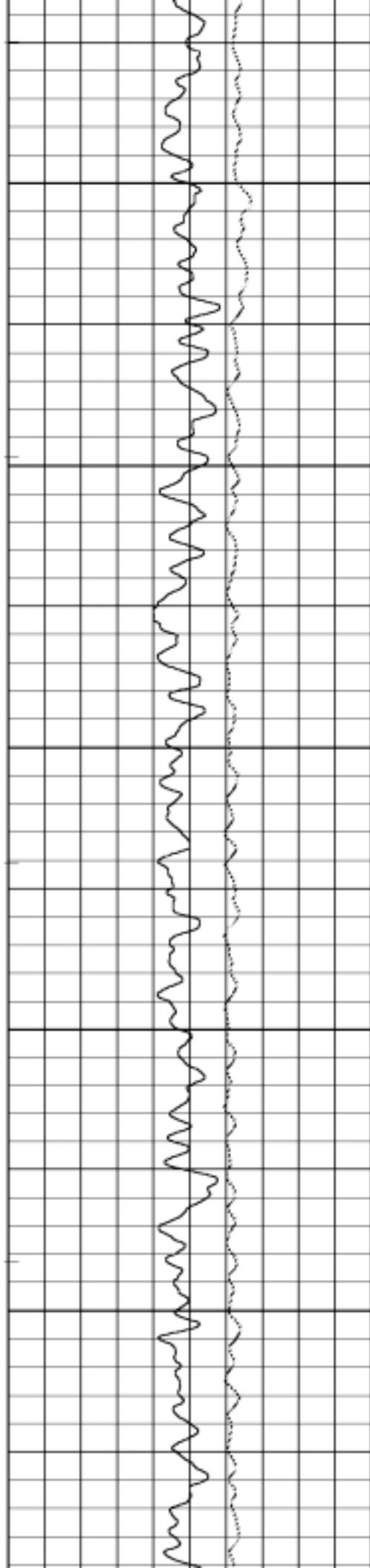




5  
10  
15  
20  
25  
30

← CASING BTM





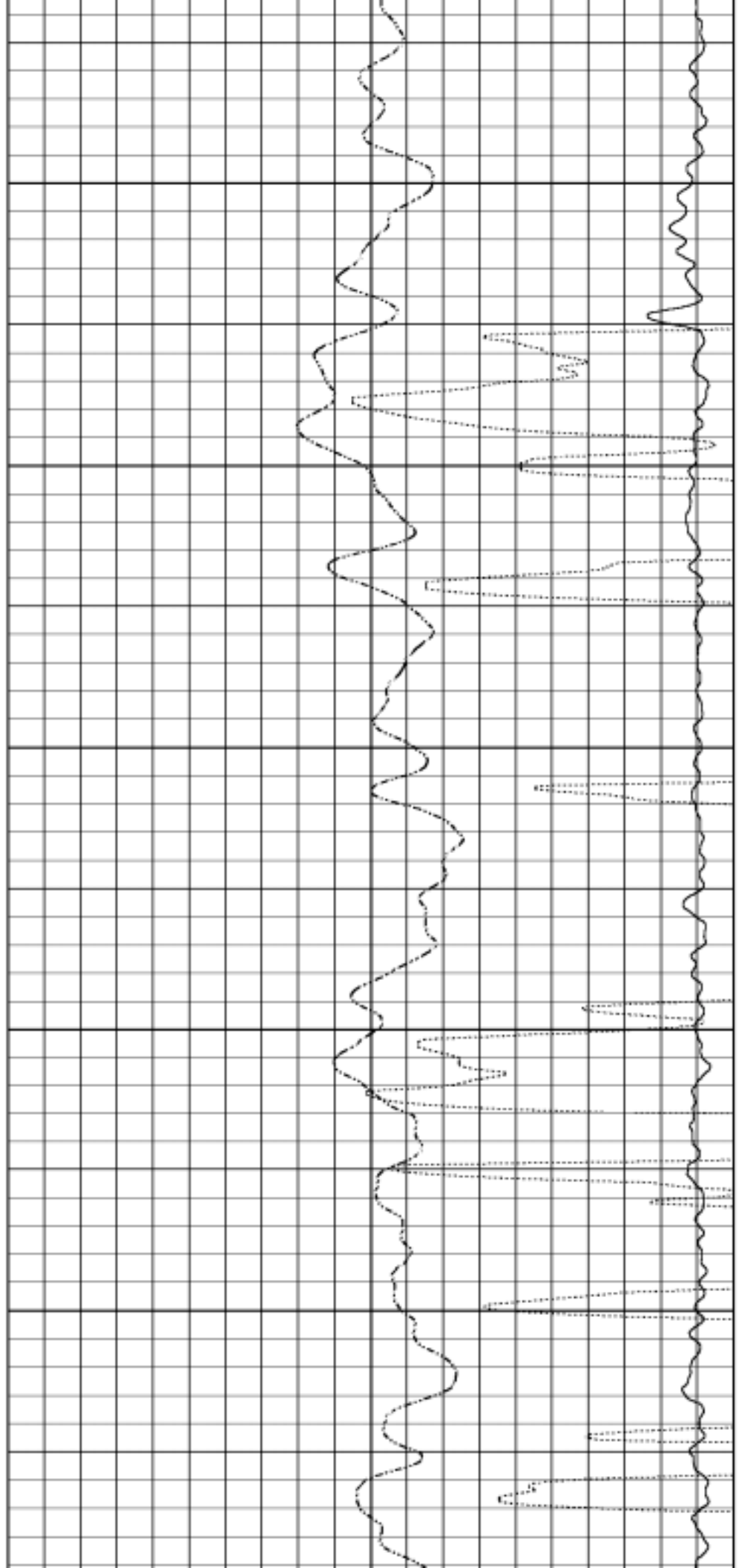
35

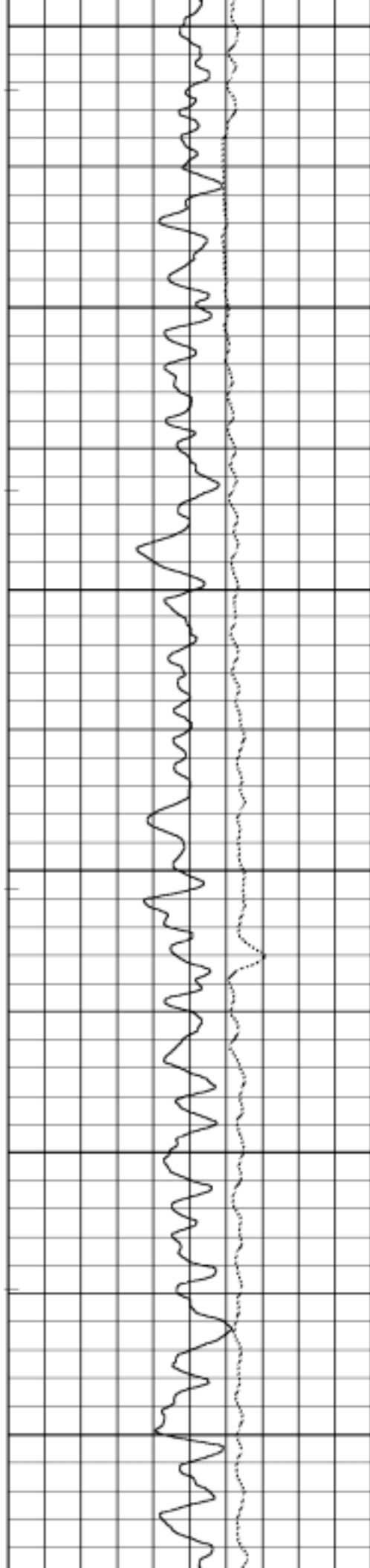
40

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60

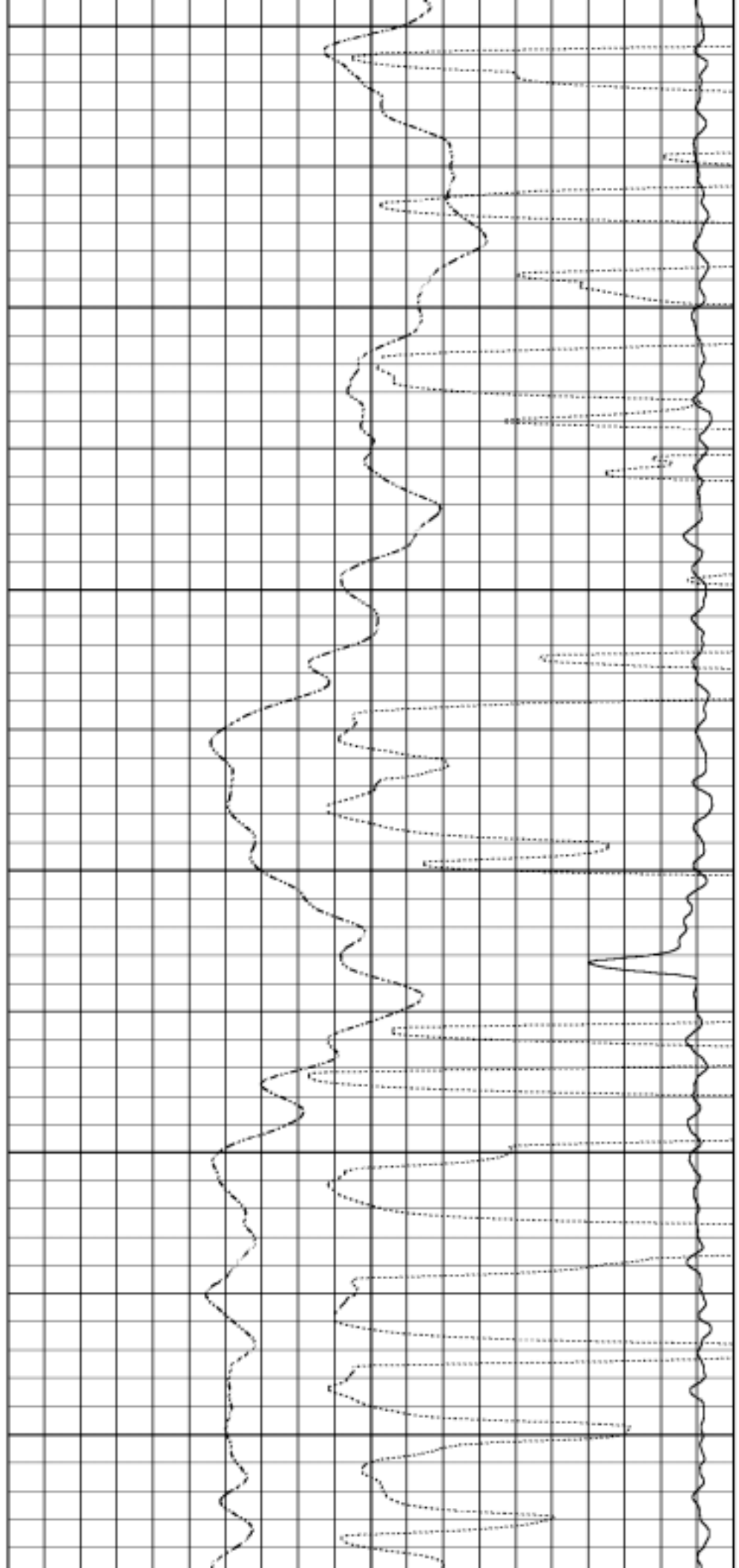
65

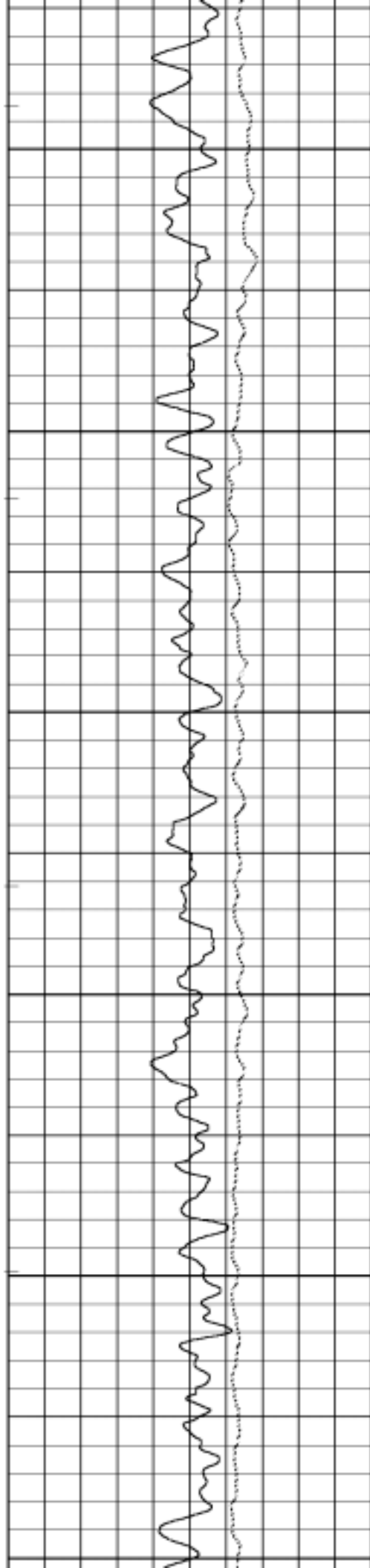
70

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80

85





90

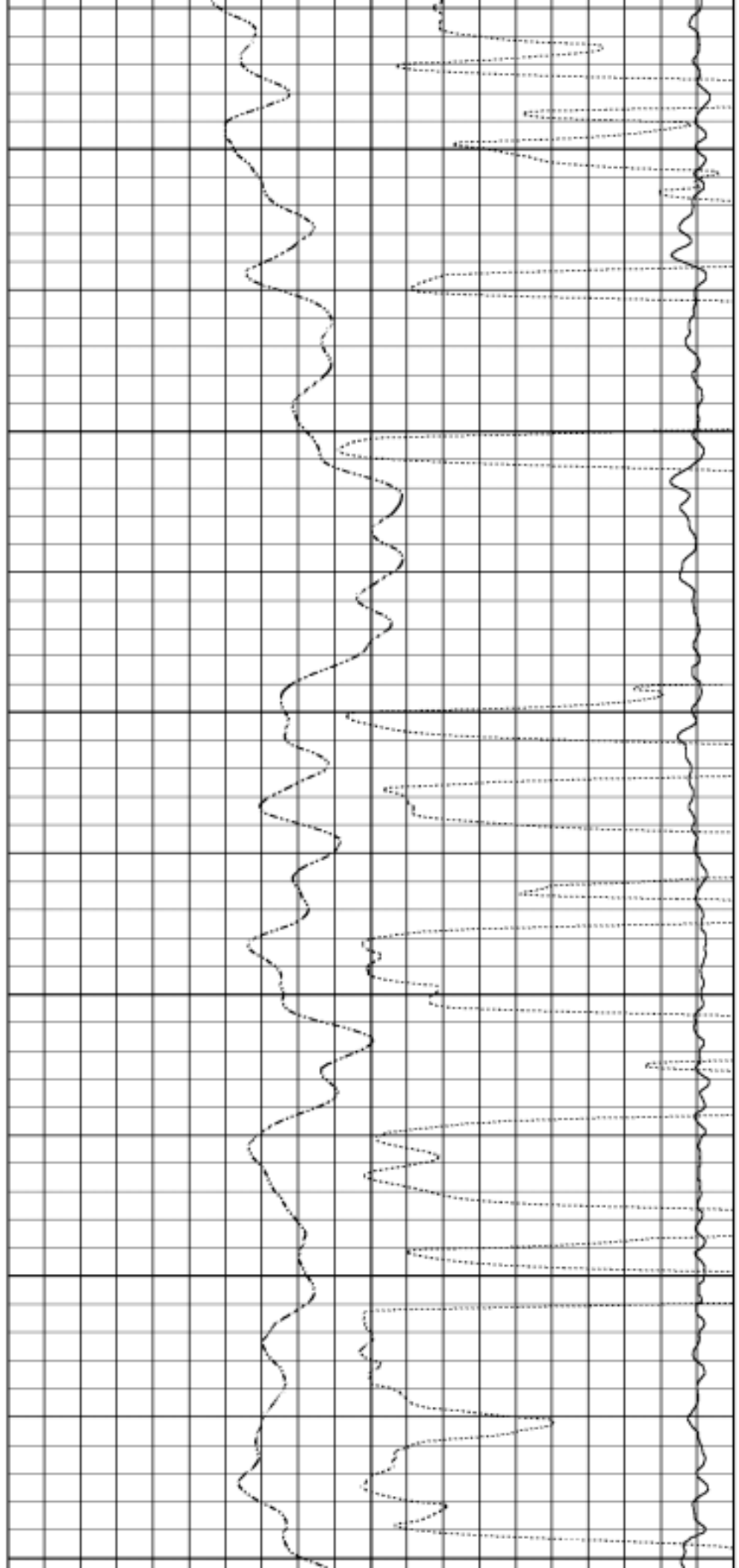
95

100

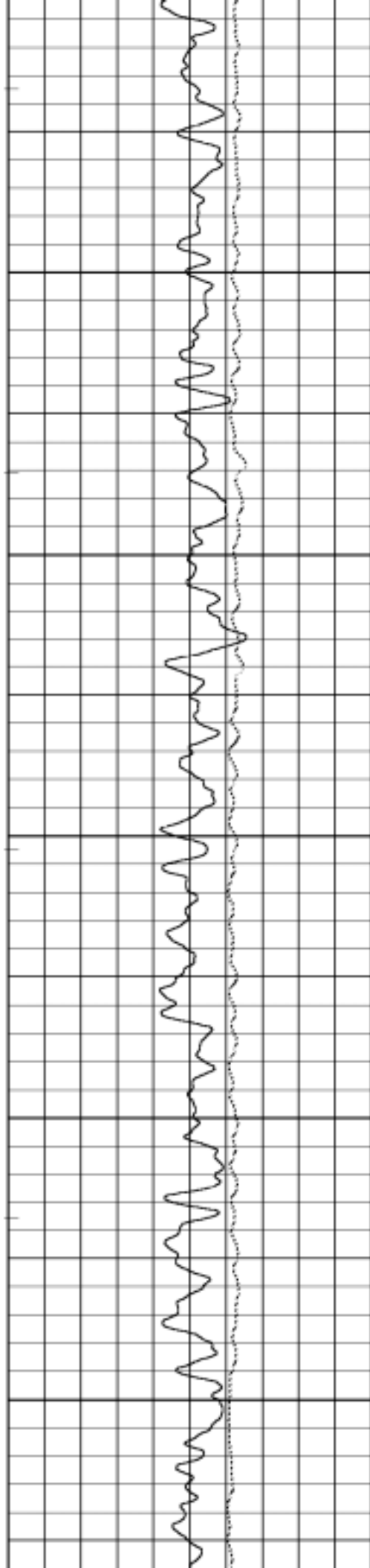
105

110

115







120

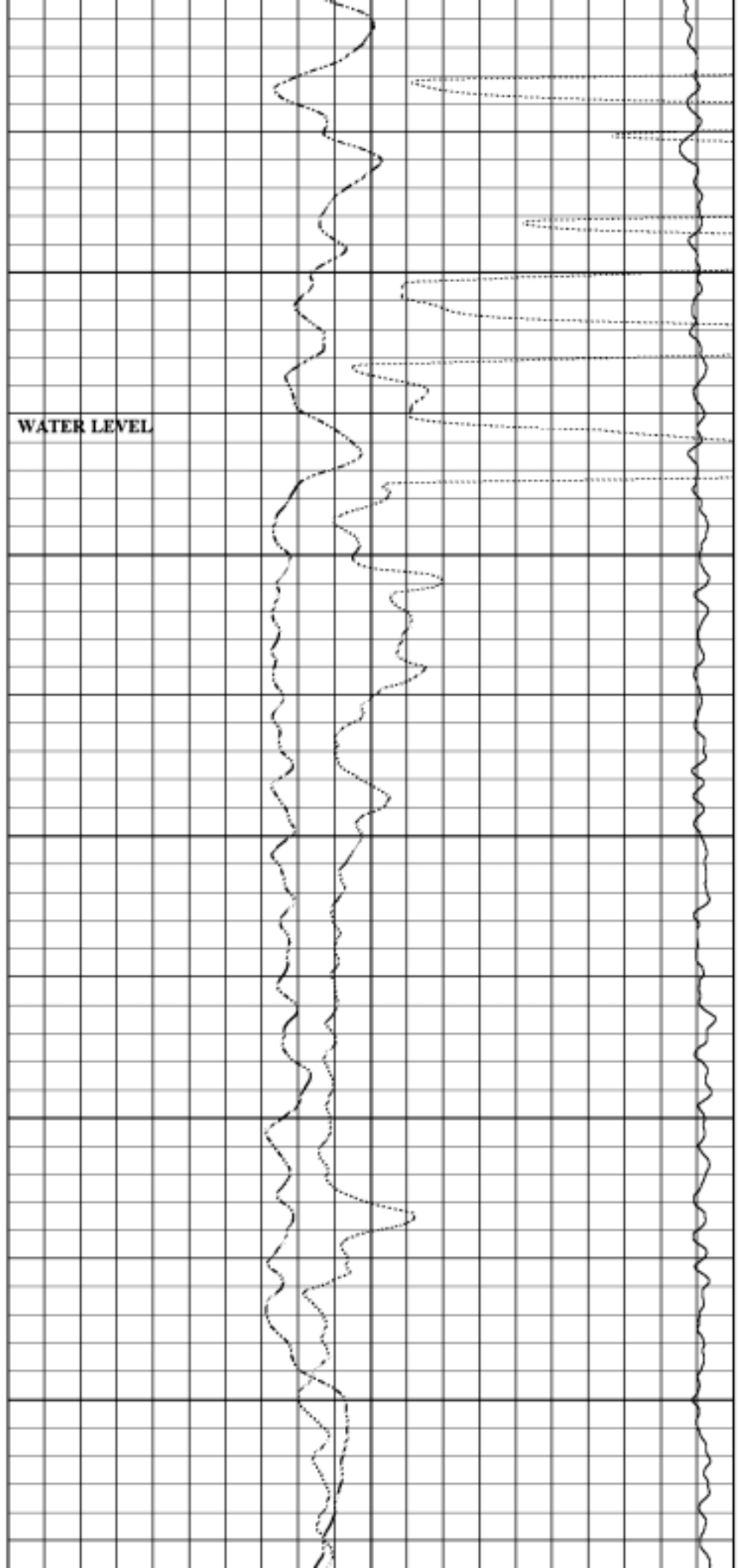
WATER LEVEL

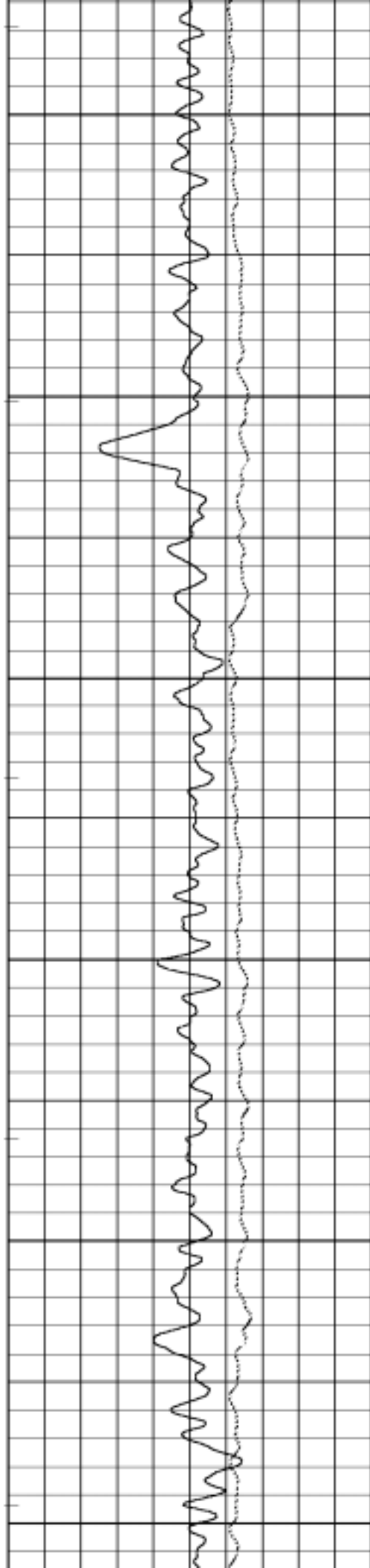
125

130

135

140





145

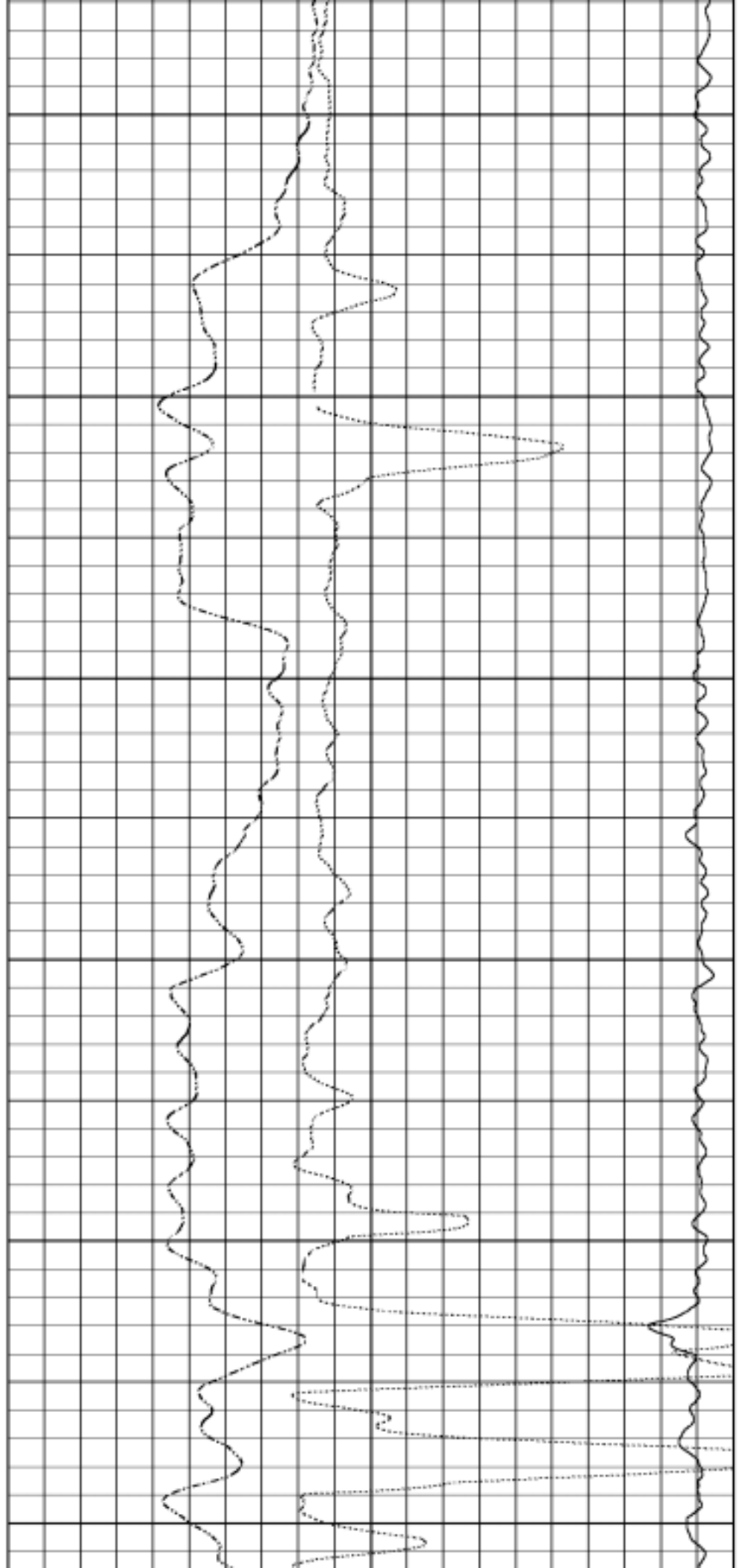
150

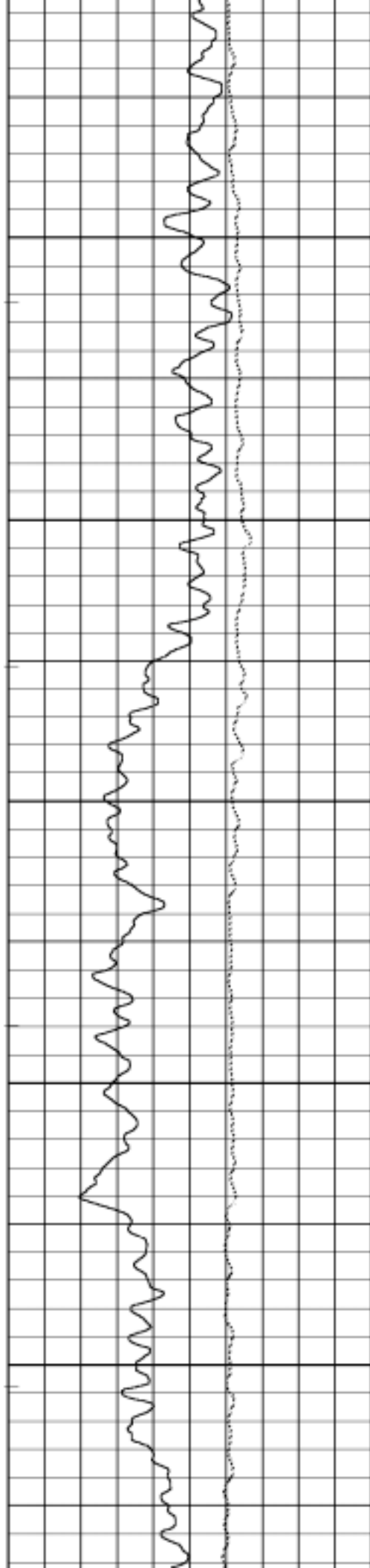
155

160

165

170





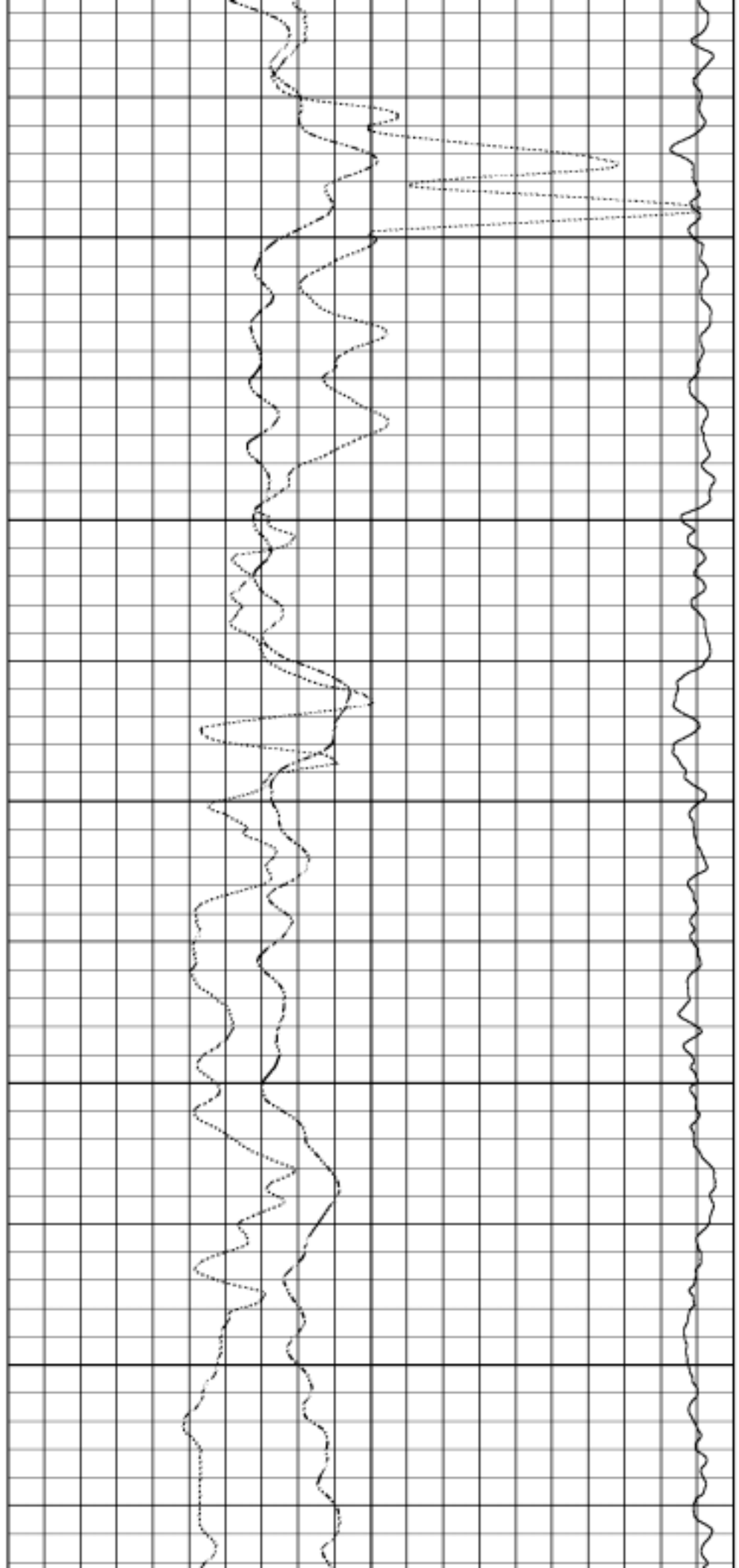
175

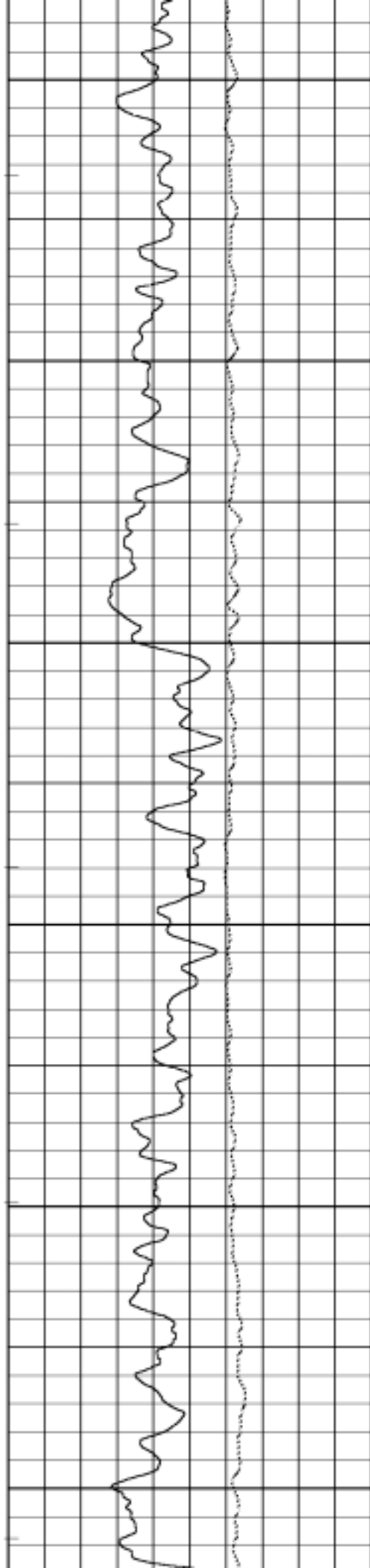
180

185

190

195





200

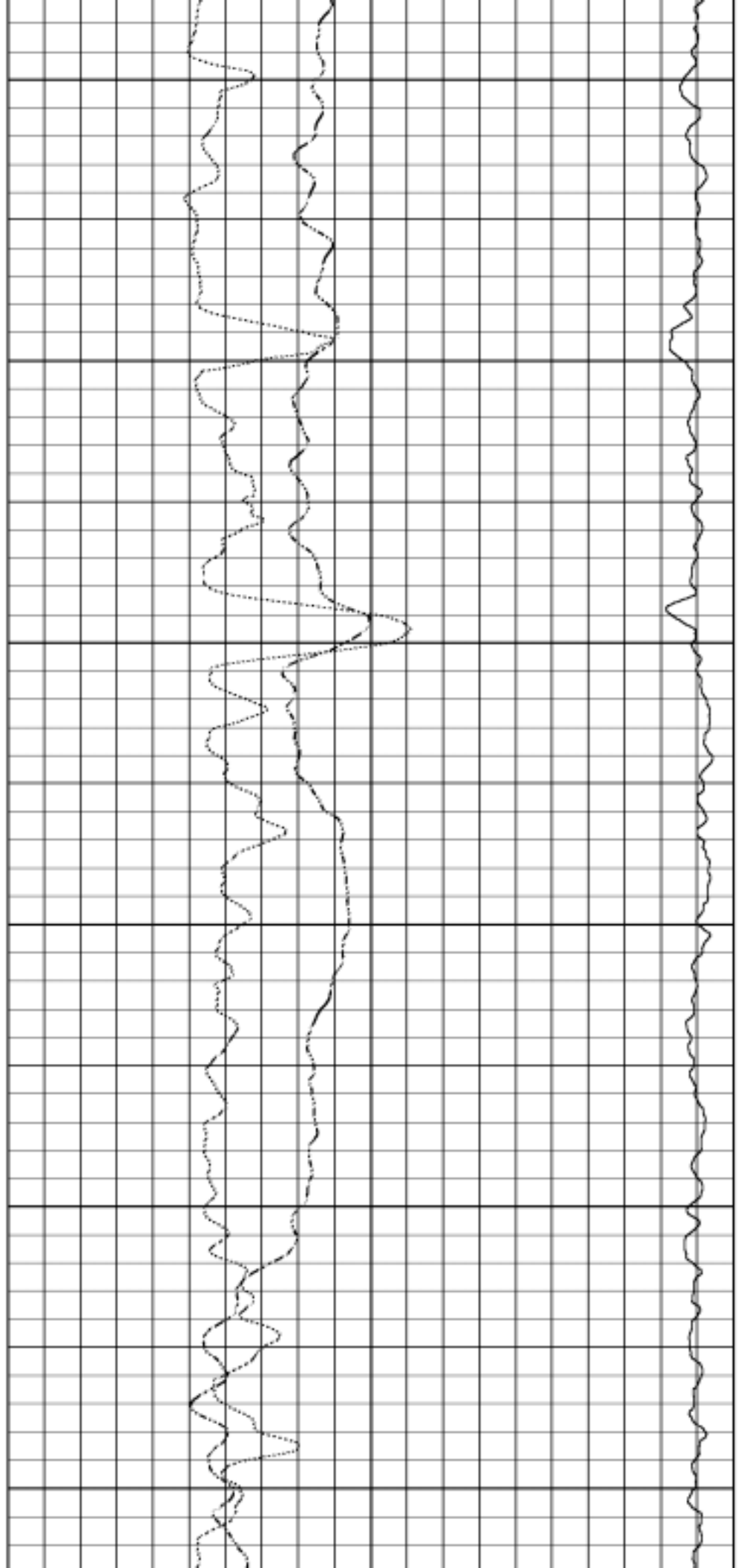
205

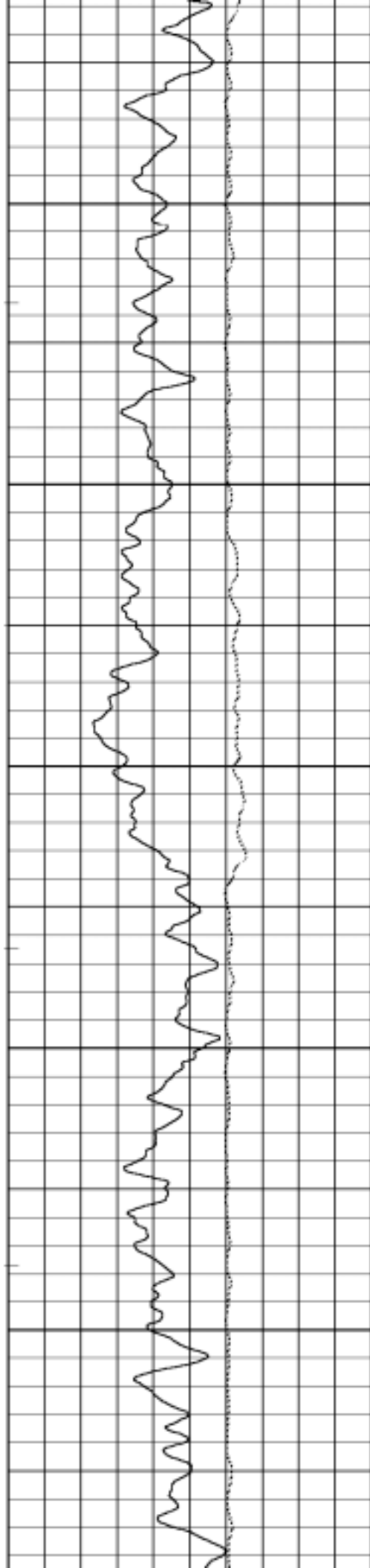
210

215

220

225





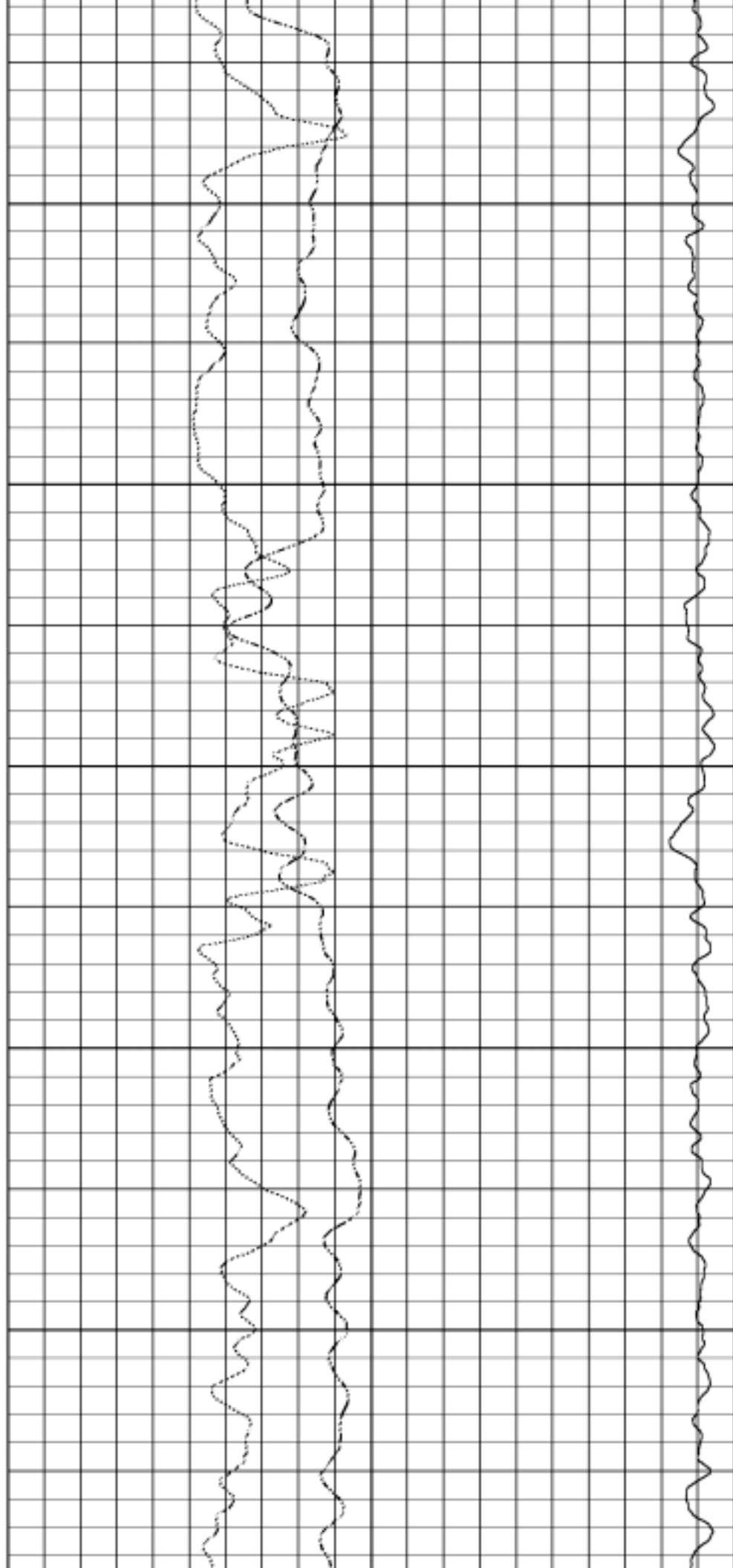
230

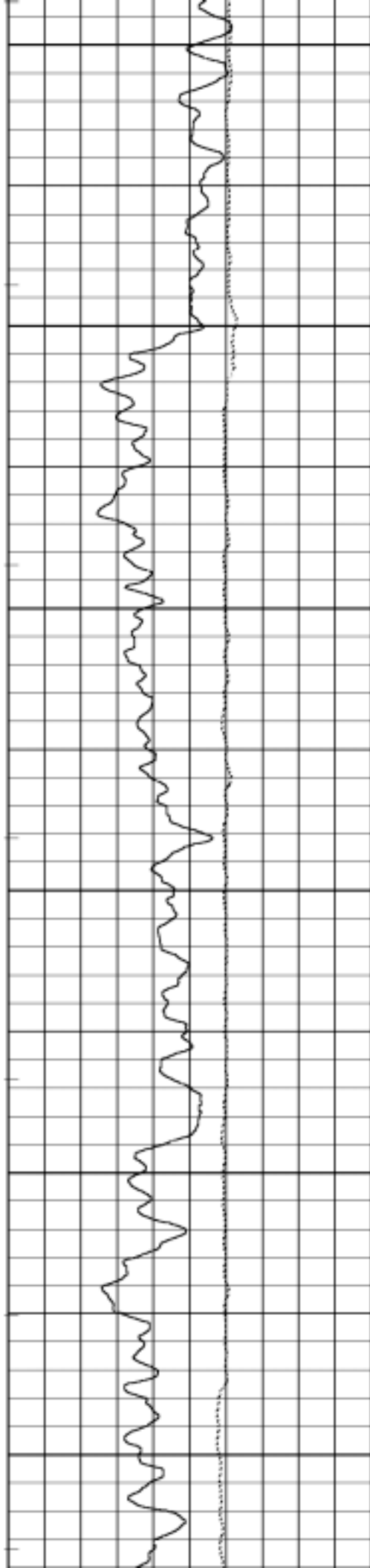
235

240

245

250





255

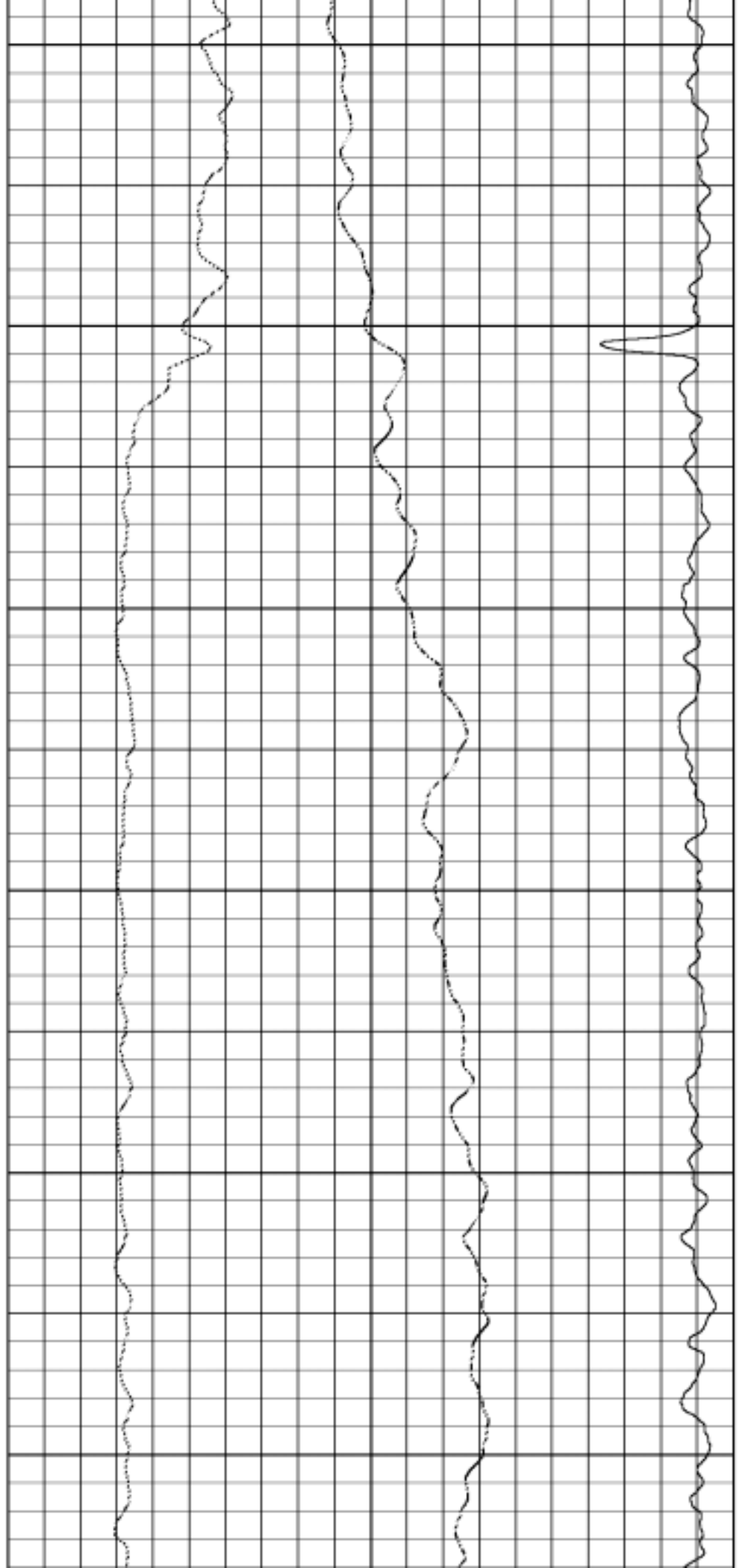
260

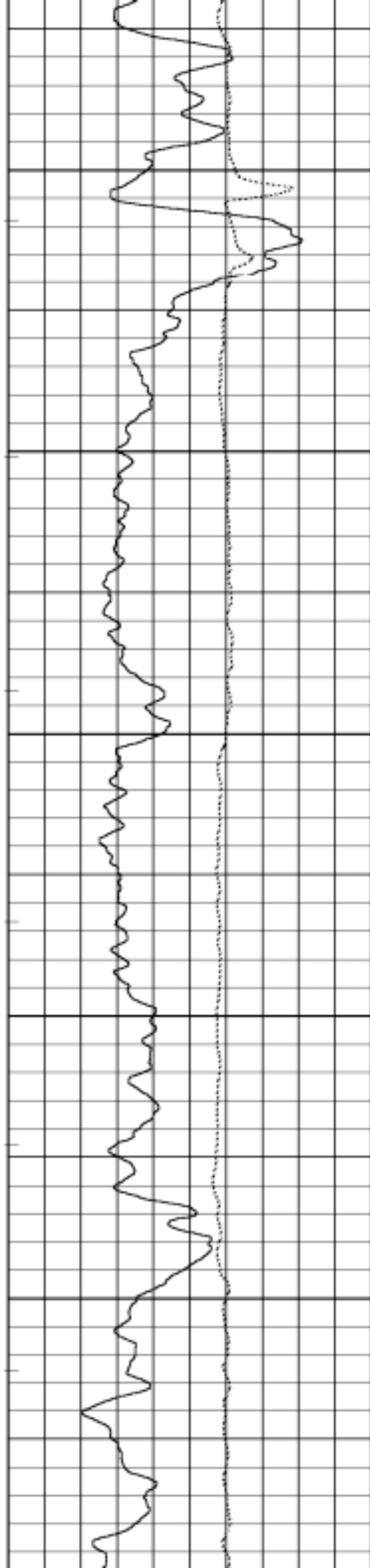
265

270

275

280





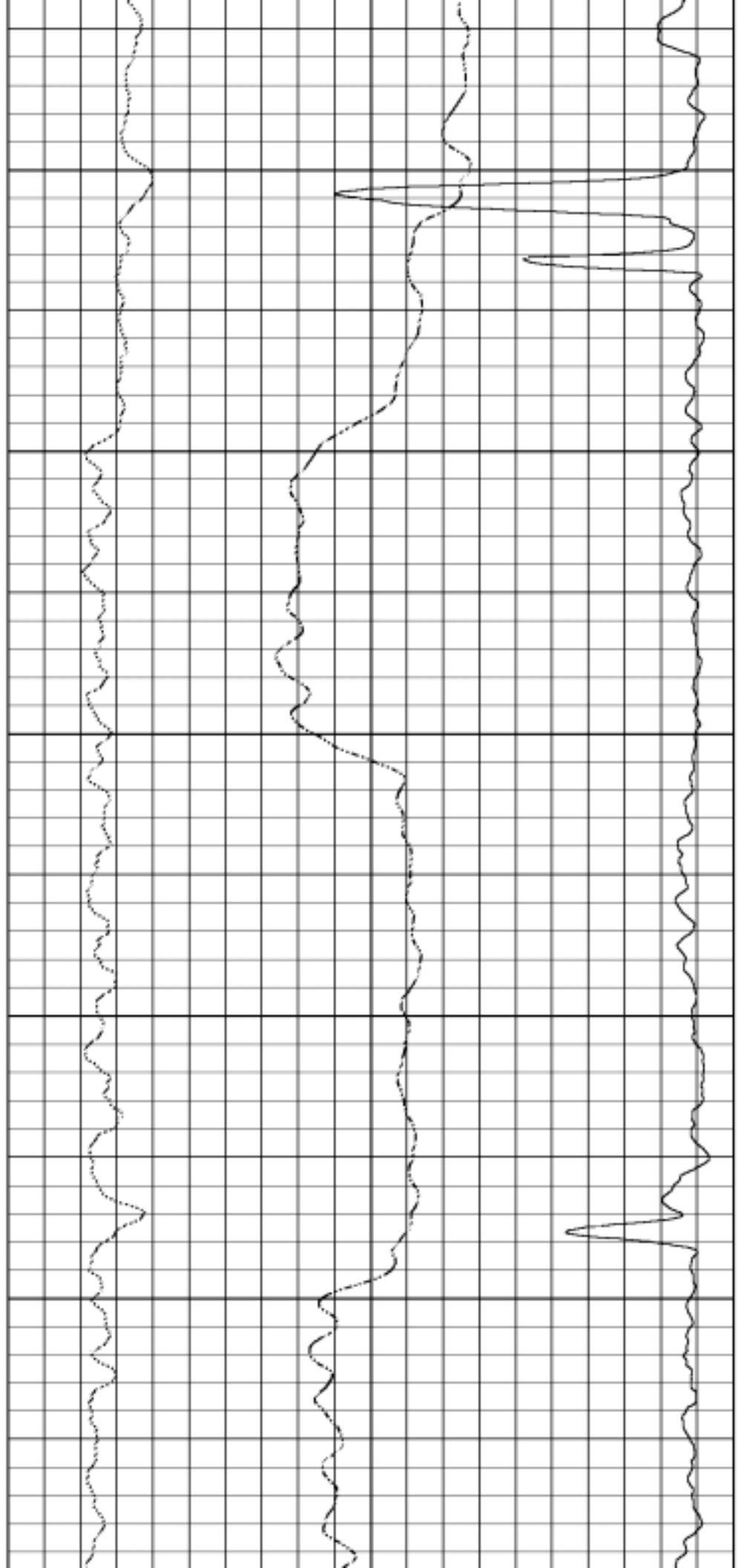
285

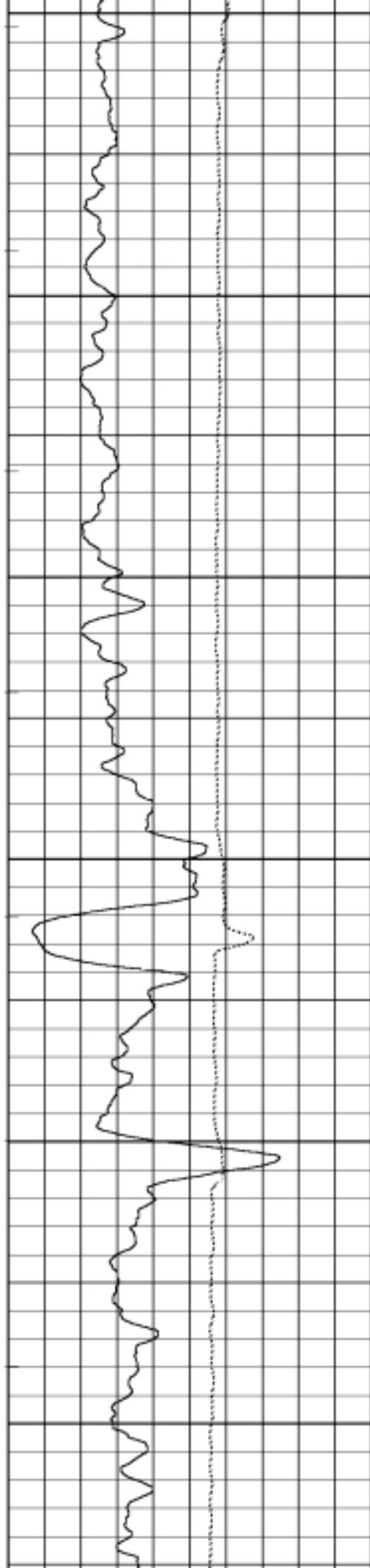
290

295

300

305





310

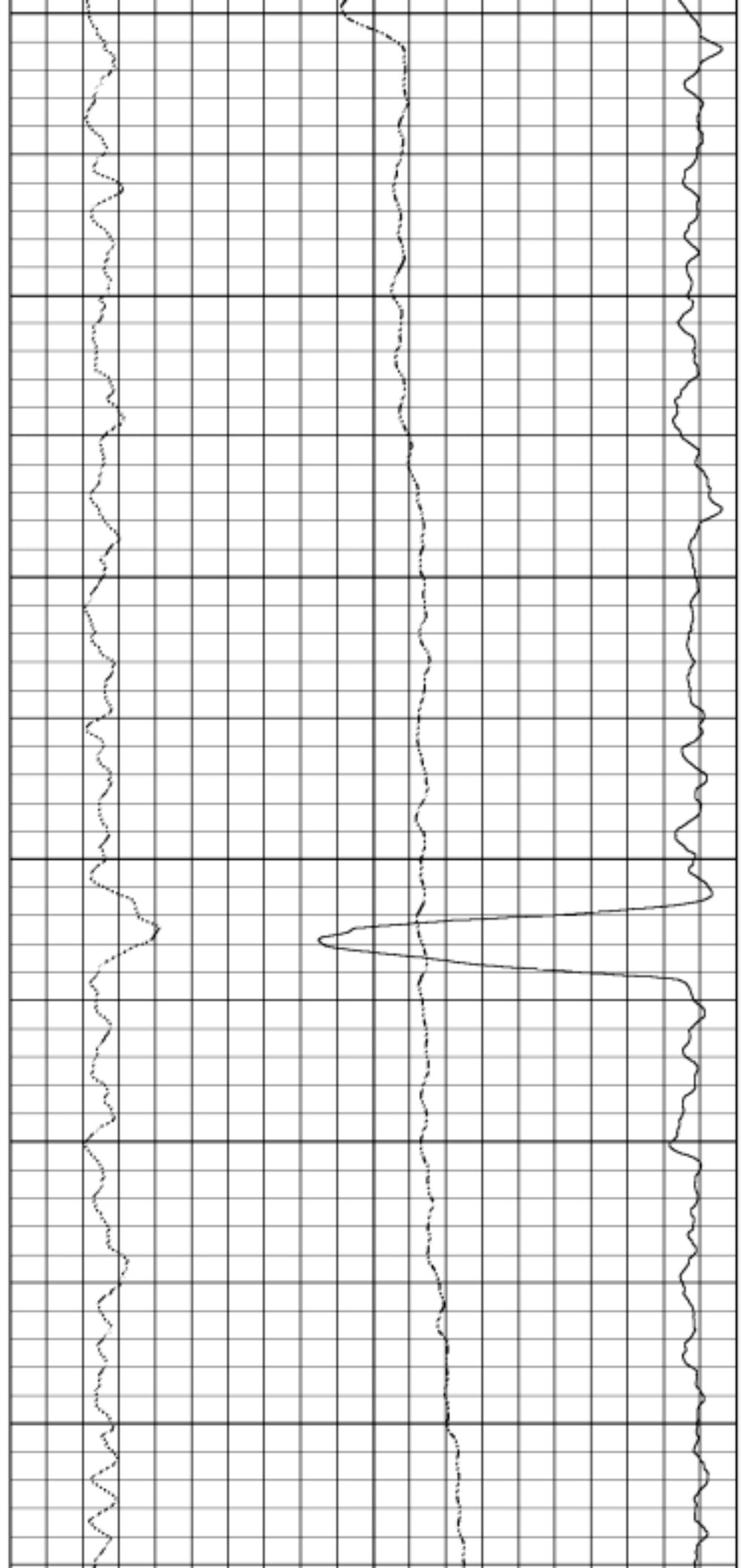
315

320

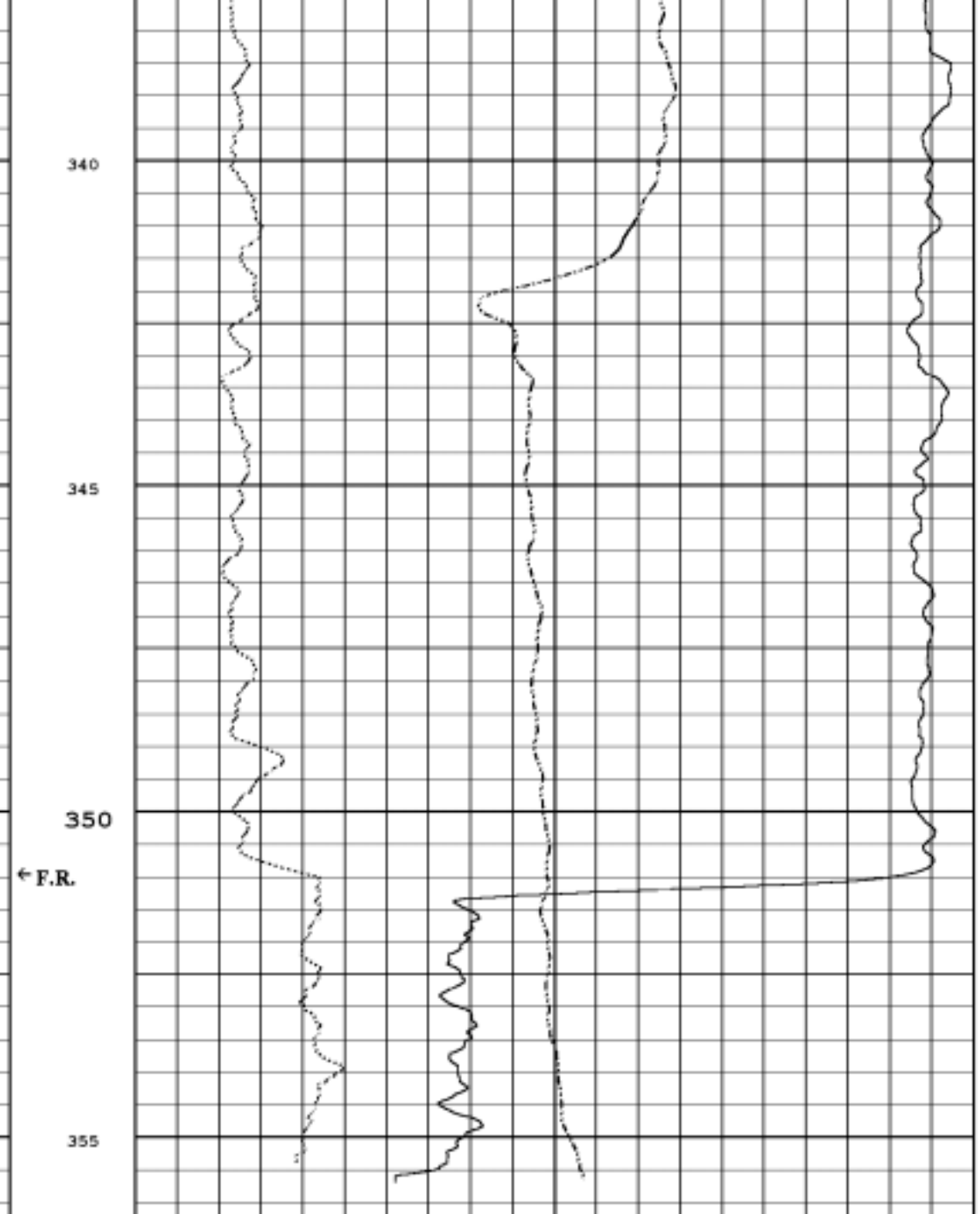
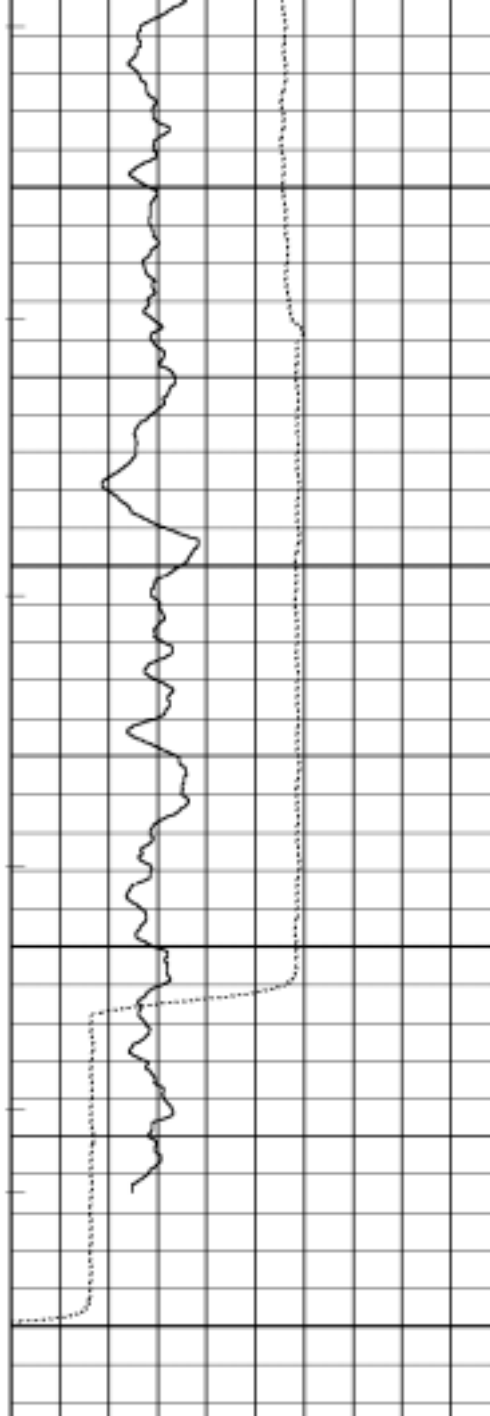
325

330

335







← F.R.

0.0      API      150.0  
 Gamma Ray

50.0      150      250.0  
 Caliper mm

1.2      1.50      3.0  
 Density (g/cc)

00      Ohms      500  
 Resistance

20.2      mv      -20.0  
 SP

Time Mark [60.0 s]

RUN: RAV-11-07A  
 DIR.: UP  
 DATE: 08/11/11  
 TIME: 16:31:30

# RAV-11-07A

START: 356.20m  
 STOP: -0.30m  
 RES.: 0.05 m  
 SCALE: 100:1 m



# ELECTROLOG SERVICES INC.

GAMMA RAY  
S.P. / RESISTANCE  
DENSITY / CALIPER  
LOG

FILING #	Company COMPLIANCE COAL CORPORATION		
LSD.	Well	RAV-11-07A	
SEC.	Field	RAVEN PROJECT	
TWP.	Province	BRITISH COLUMBIA	
RGE.	Location		
W.	LSD.	SEC.	TWP.
	RGE.	W.	
	OTHER SERVICES DEVIATION SURVEY		

Permanent Datum GROUND LEVEL Elevation K.B.  
Log Measured From GROUND LEVEL Above Perm. Datum G.L.

Date	11 AUGUST 2011	Type Fluid	WATER
Run Number	098	Fluid Level	124.2
Type Log	GR-DEK-CAL-RES-SP	Wellhead Pressure	0
Depth - Driller (OH)	352.65 m	Max. Temp. °C	N/A
Depth - Driller (CH)		Oper. Rig Time	2.5 HR.
P.B.T.D. By Logger	351.7 m	Recorded By	W. PUBANS
Bottom Log Interval	351.0	Witnessed By	O. CULLINGHAM
Logged Interval	351.0	Apparent Cement Top	N/A
Top Log Interval	00.0	Hoist Unit# / Loc.	WIRELINE #1
Zone(s) of Interest		Program	WIN 98
Gun Type and Size		DRILL RIG	
Gun Charges			

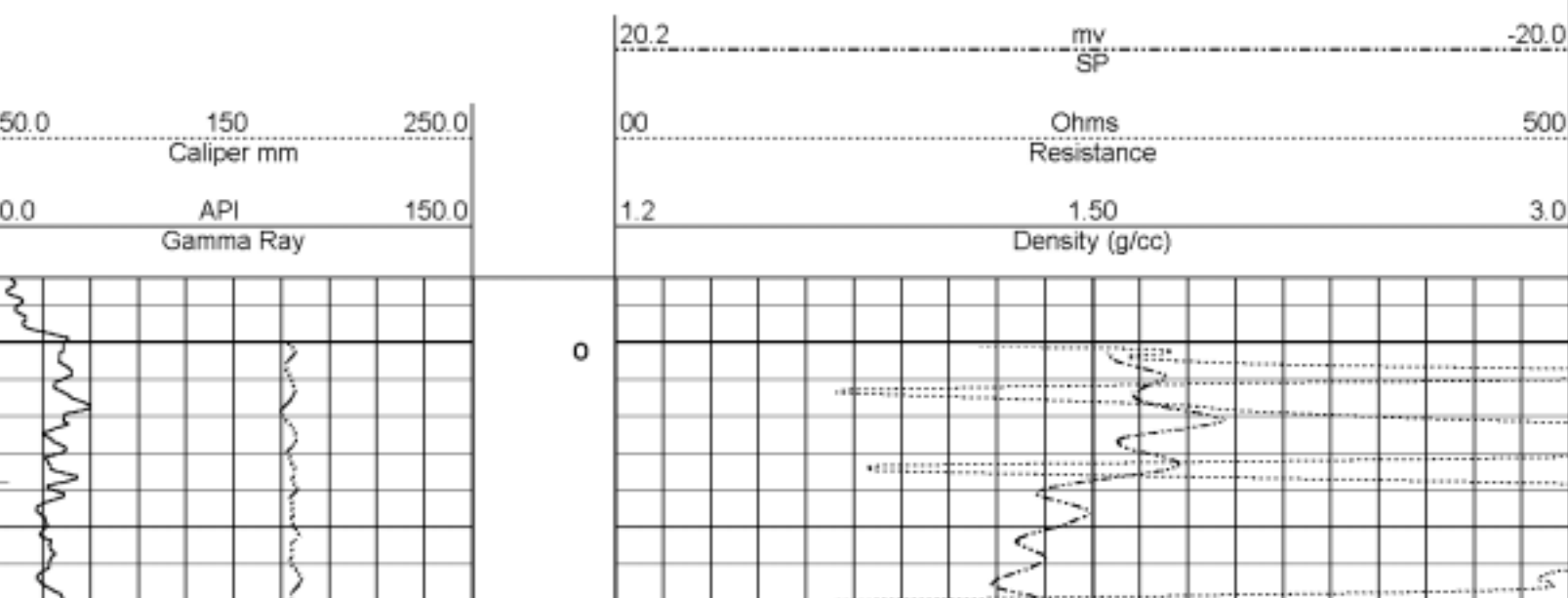
CASING RECORD	SIZE	Kg/m	GRADE	TYPE JOINT	FROM	TO
DRILL BIT	152.4 mm				SURF.	T.D.
SURF. CASING	168.0				SURF.	24.0
PLASTIC LINER						

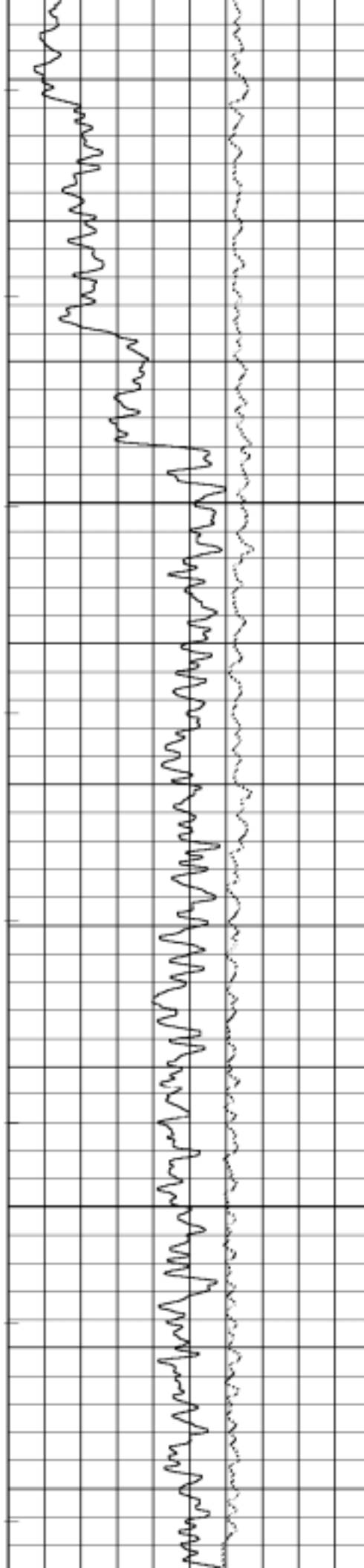
START: 356.20m  
STOP: -0.30m  
RES: 0.05 m  
SCALE: 200:1 m

## RAV-11-07A

RUN: RAV-11-07A  
DIR.: UP  
DATE: 08/11/11  
TIME: 16:31:30

Time Mark [60.0 s]

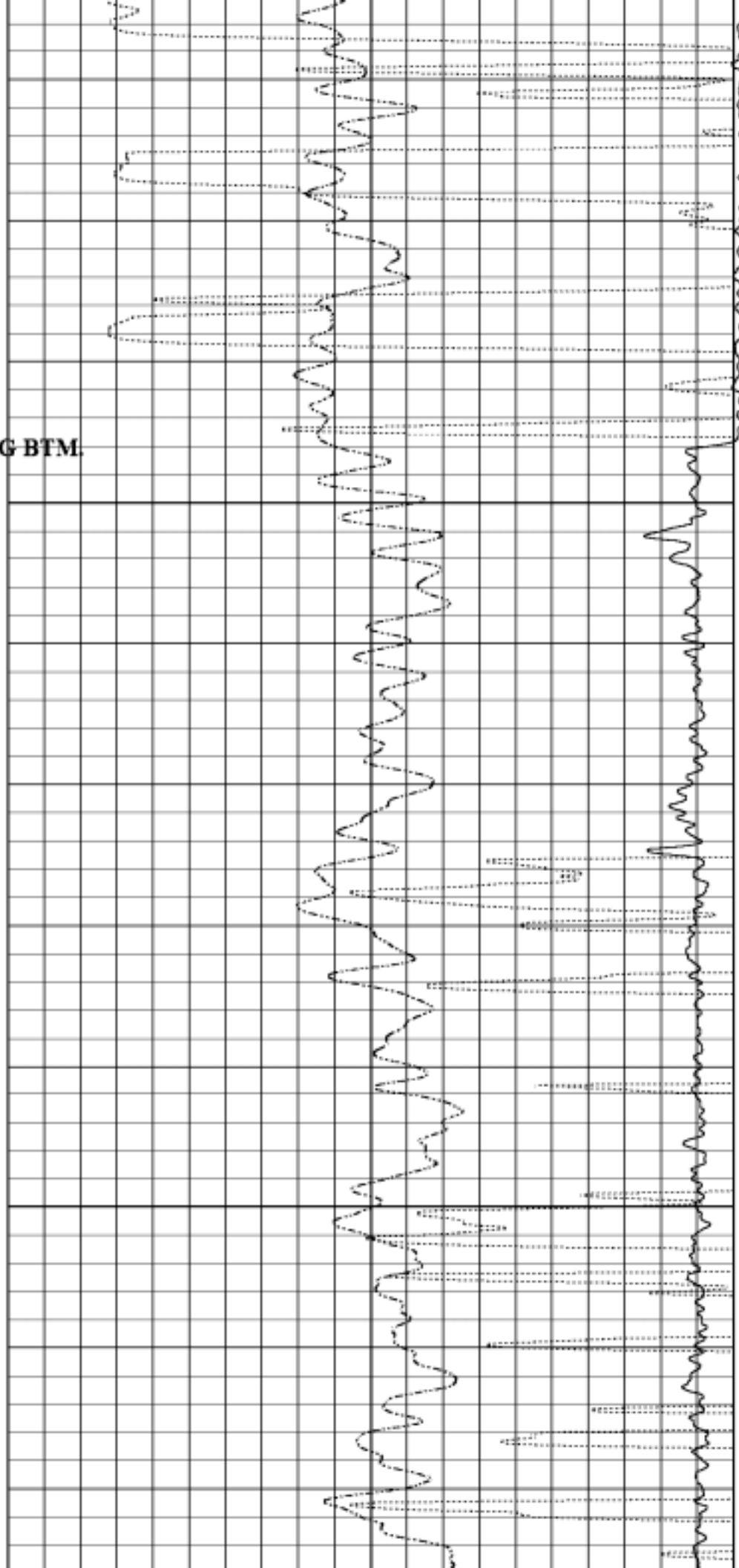


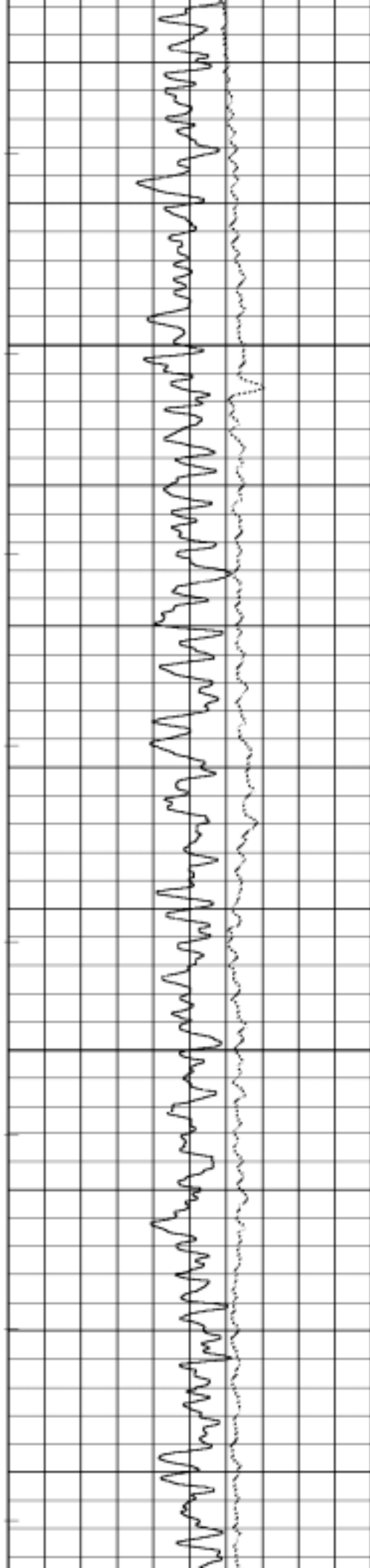


← CASING BTM.

25

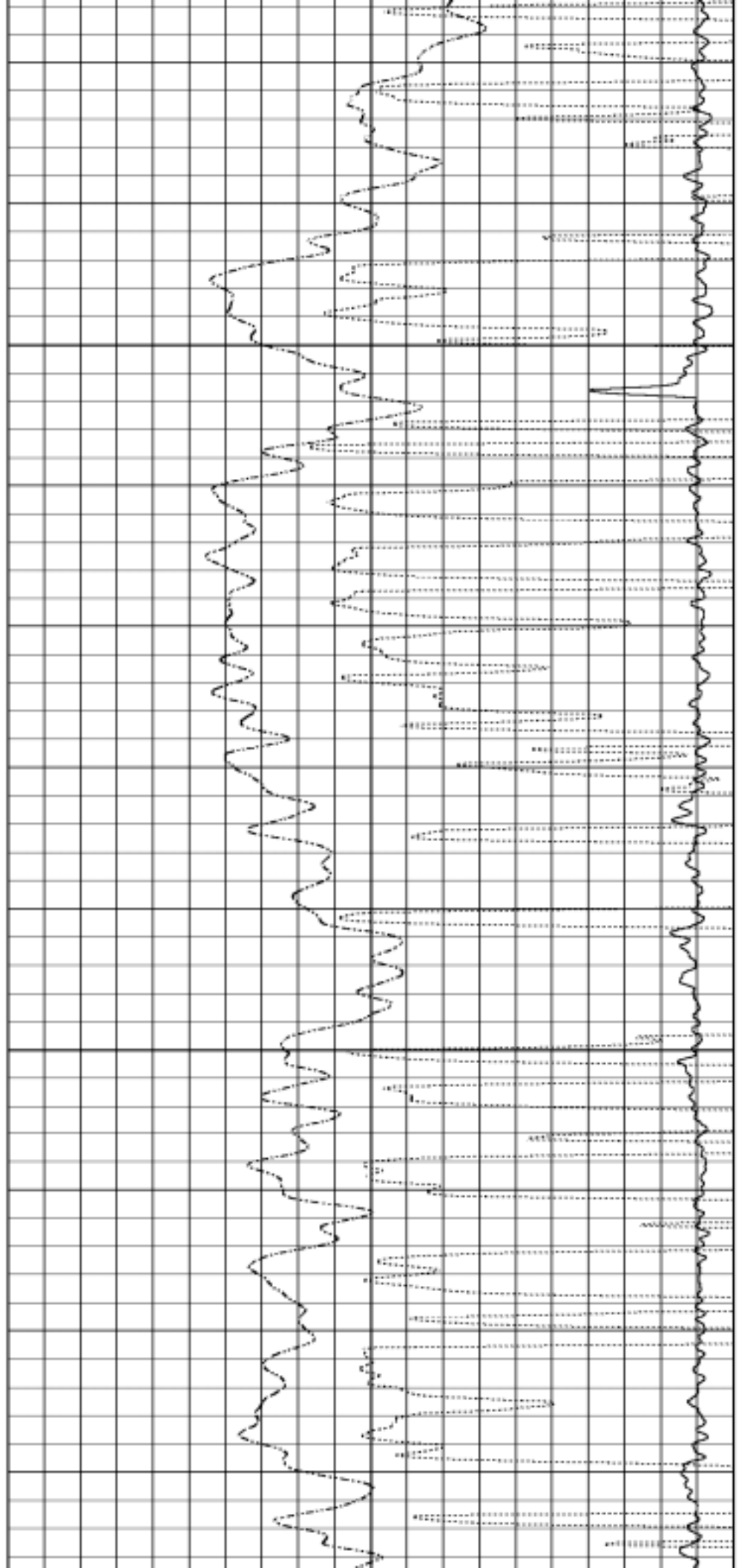
50

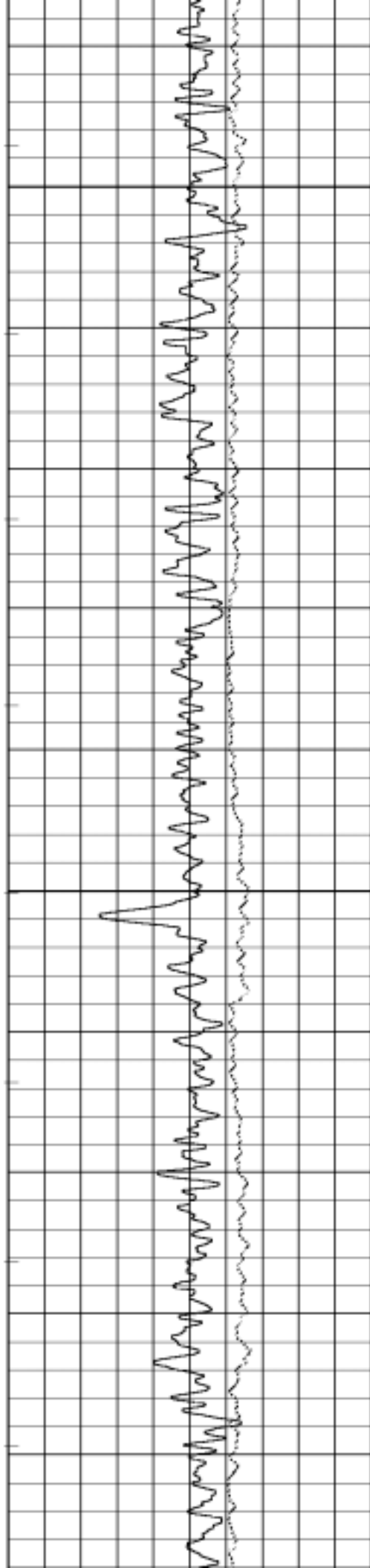




75

100

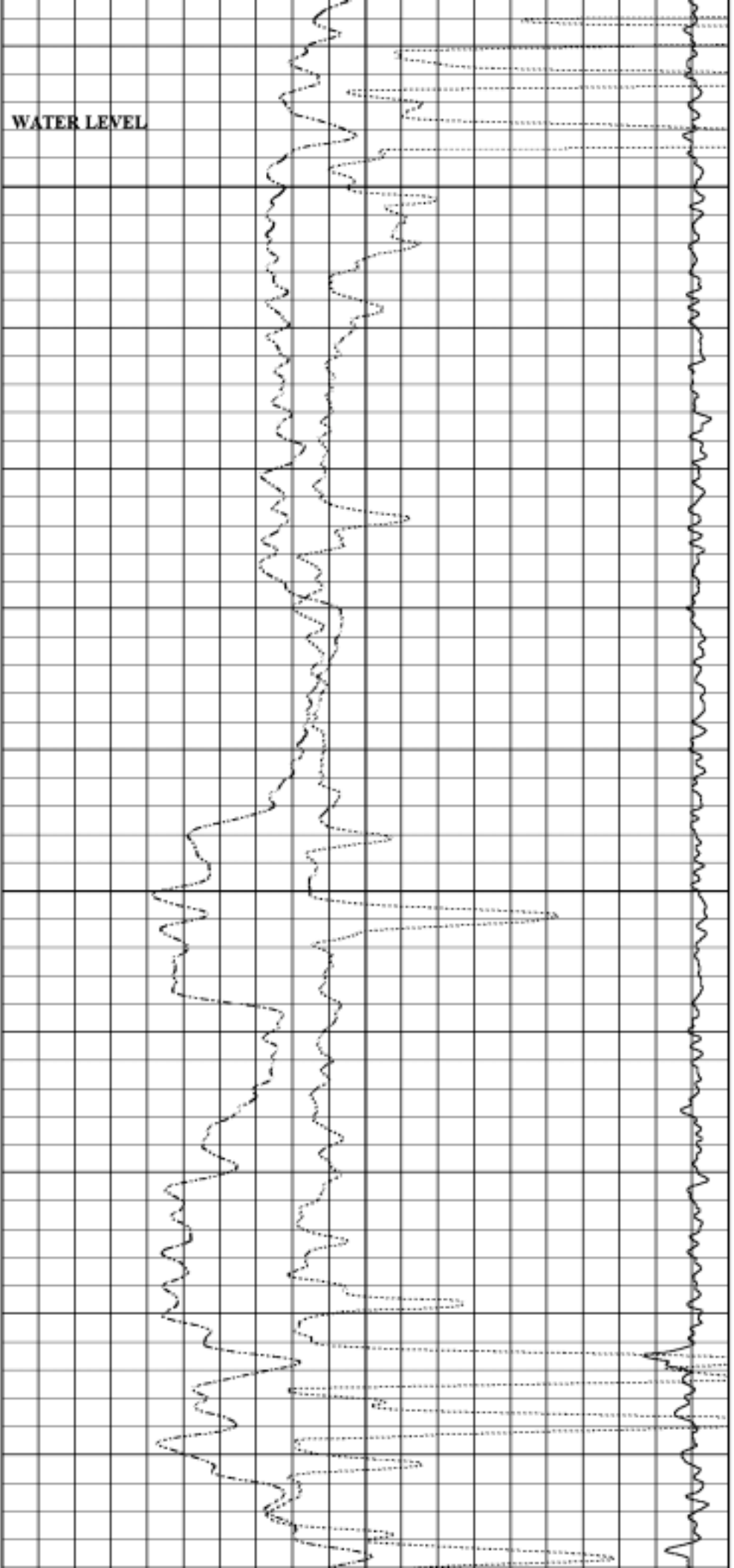


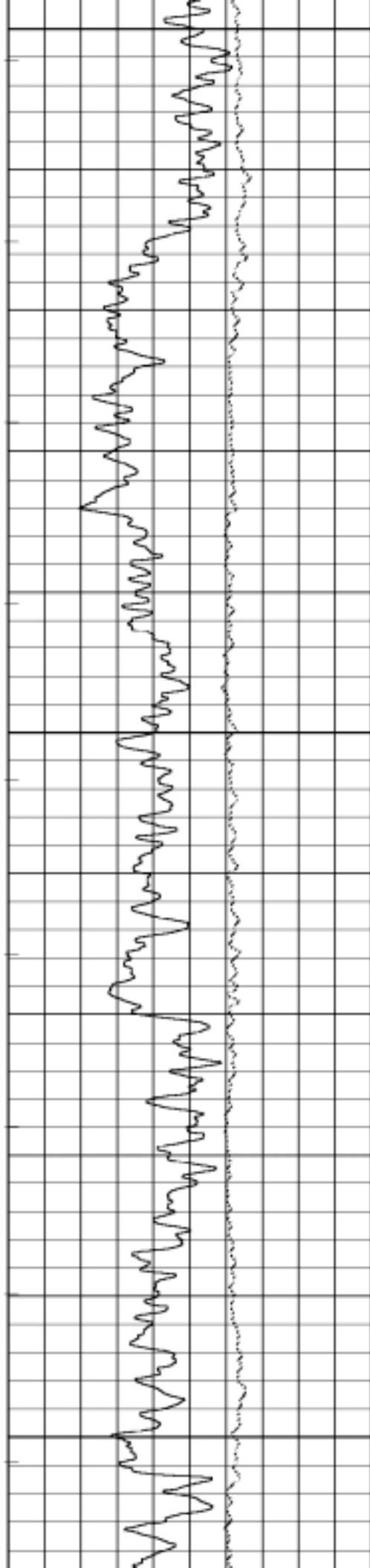


125

150

WATER LEVEL

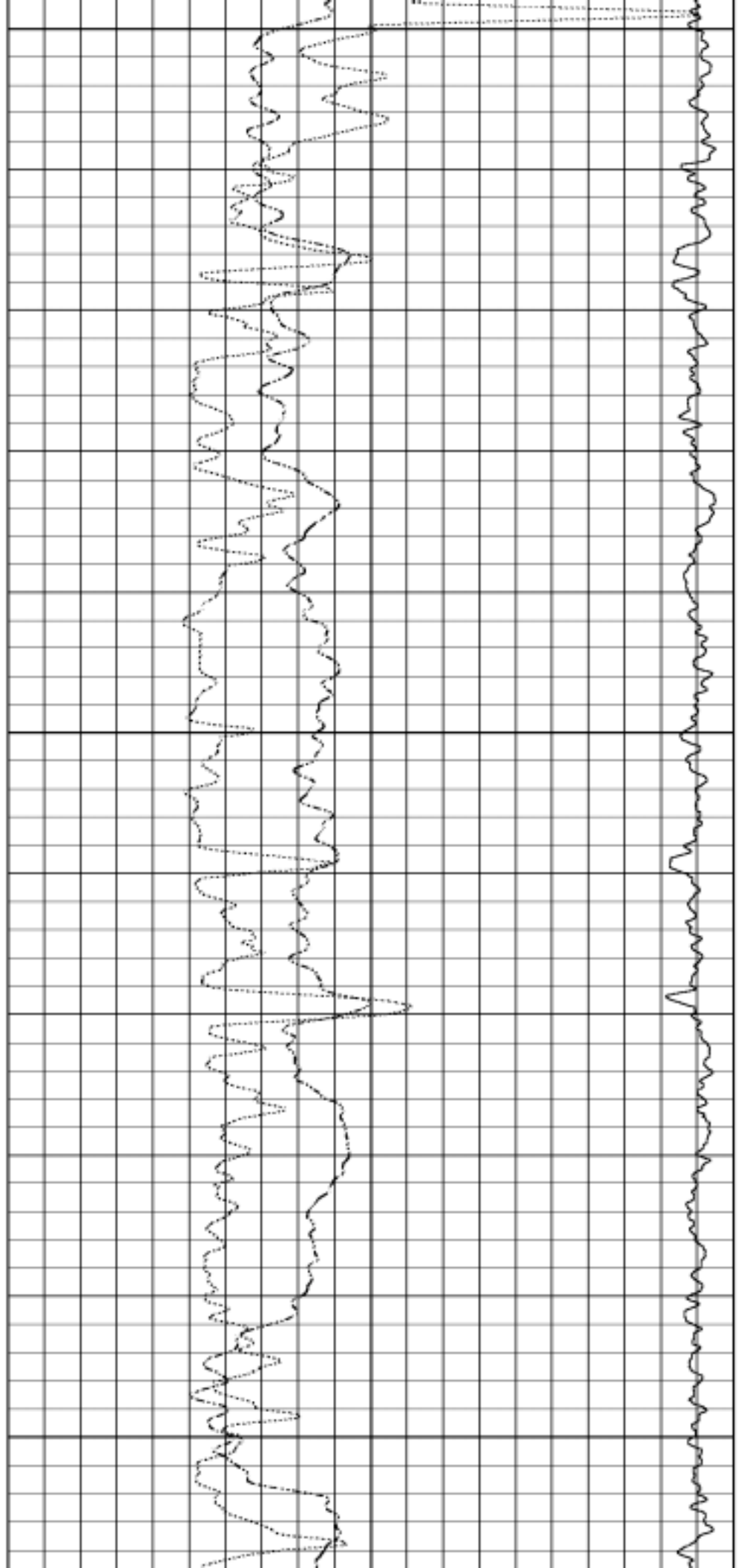


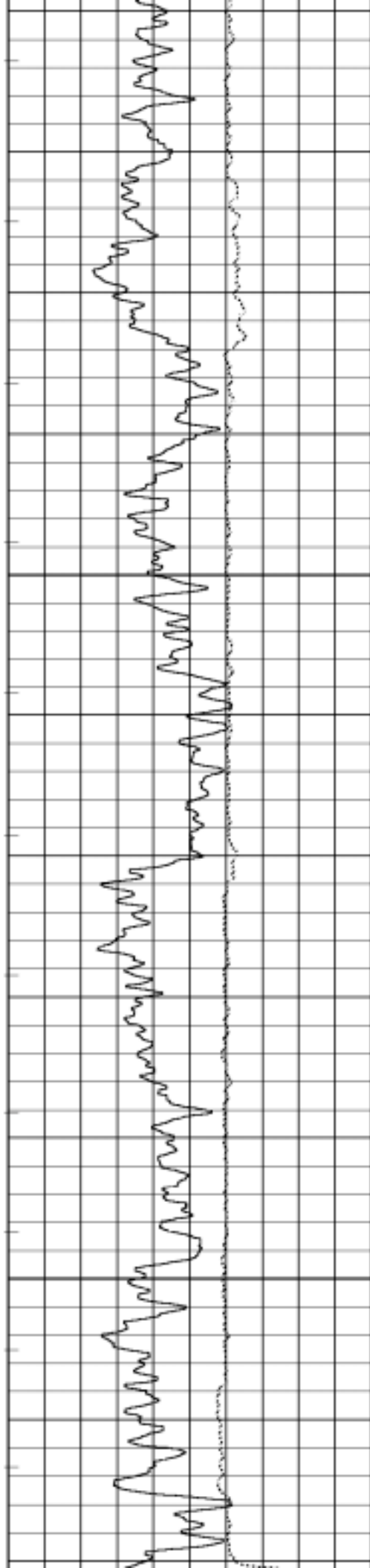


175

200

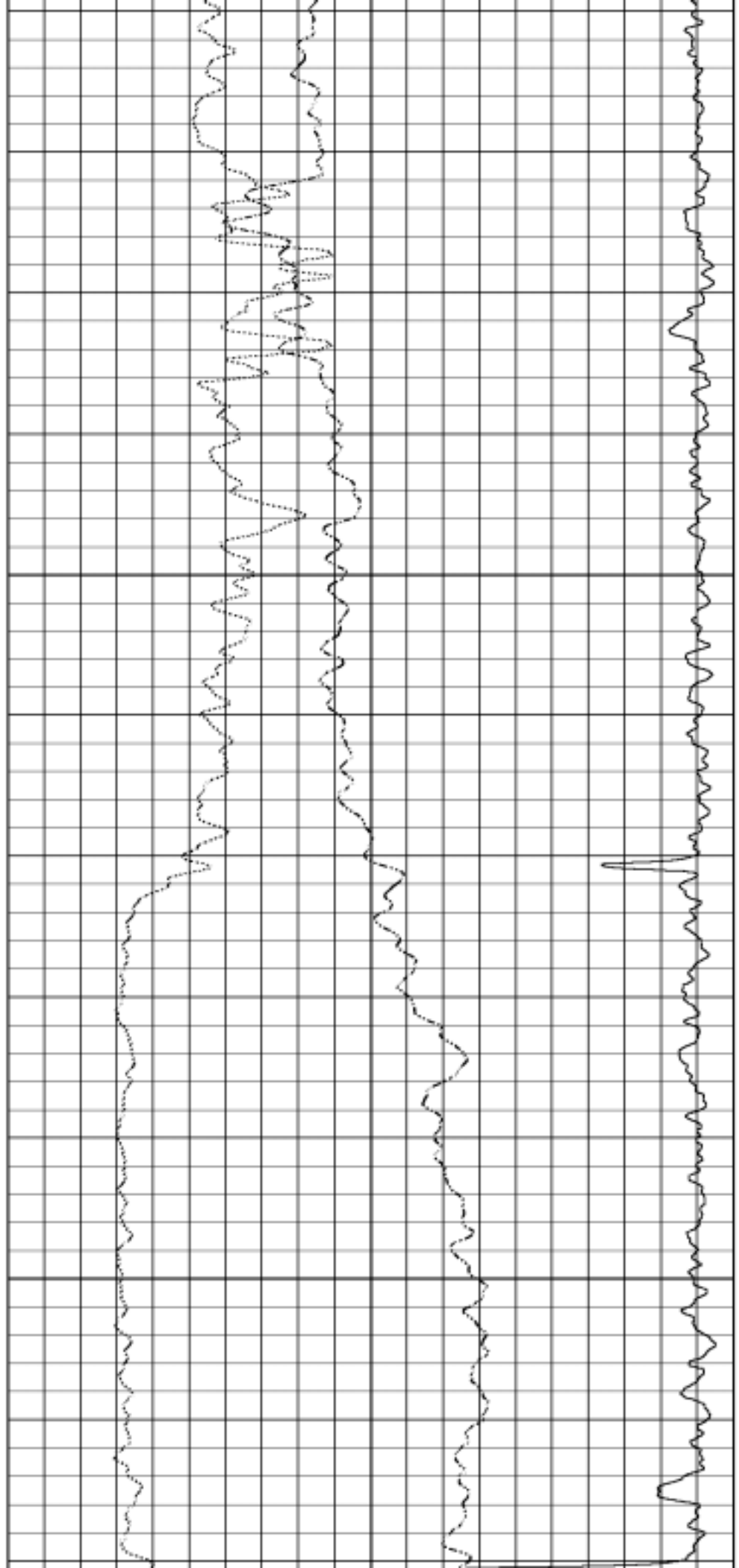
225



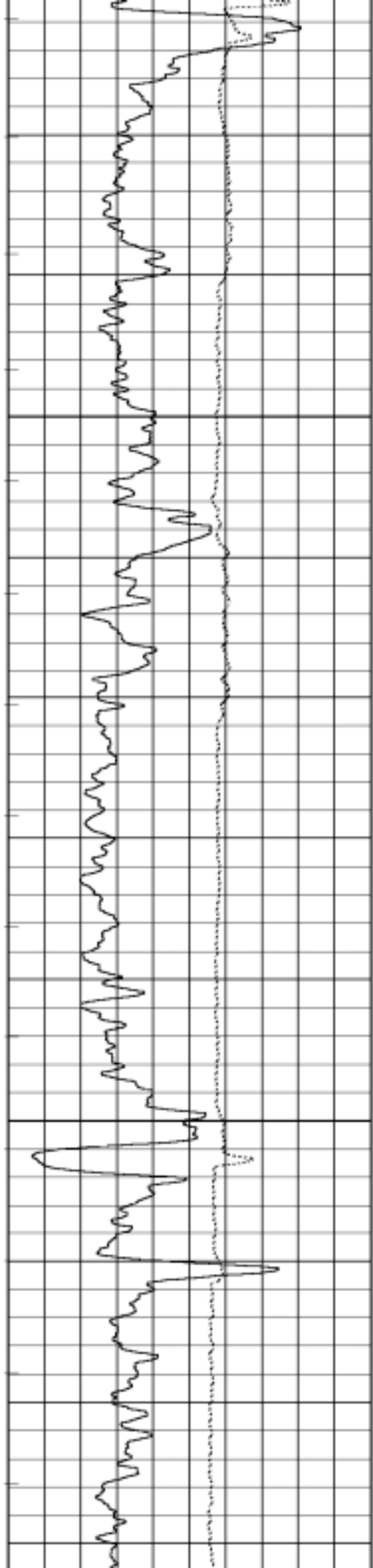


250

275

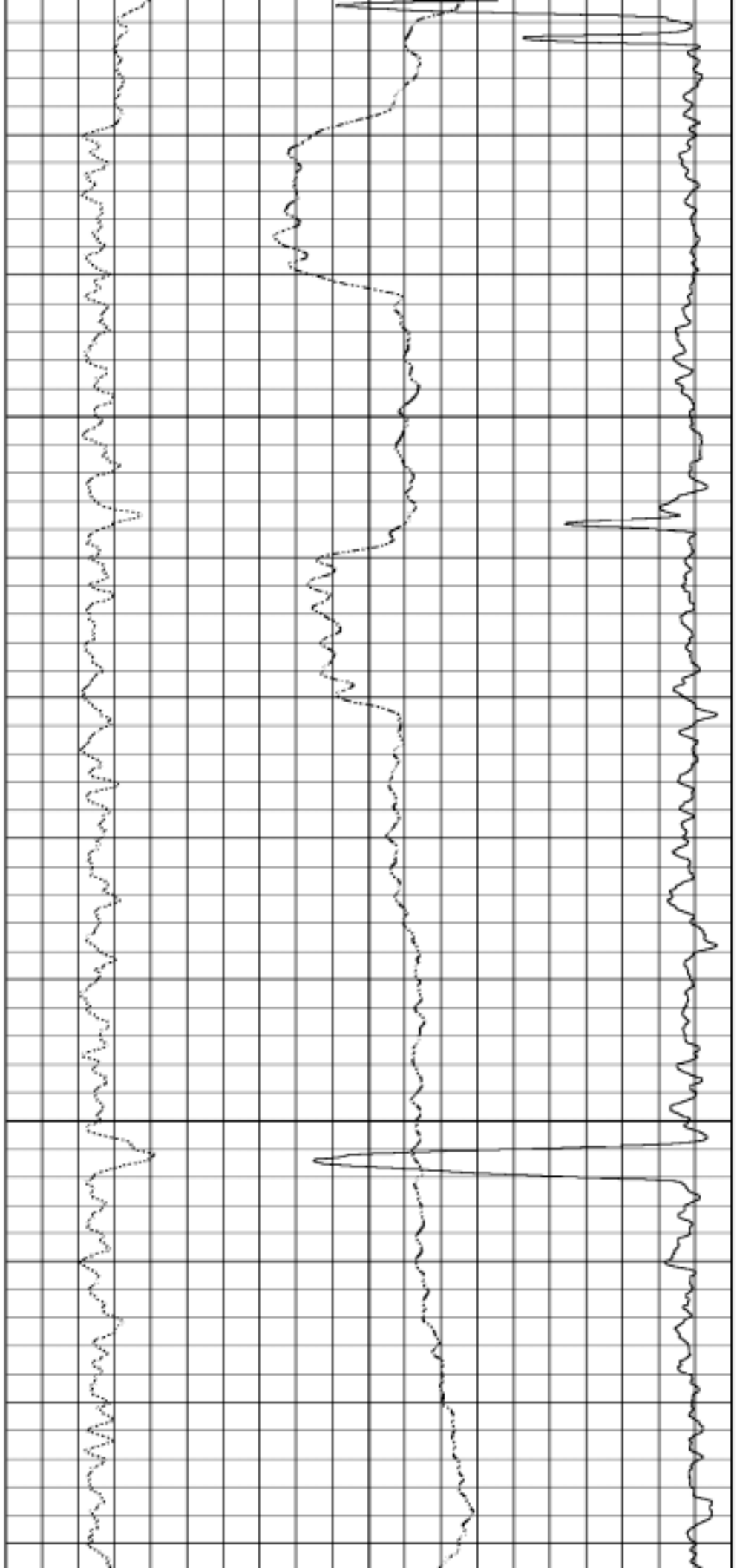


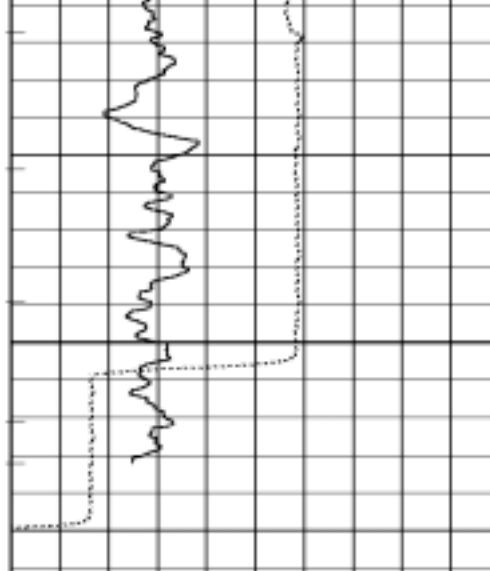




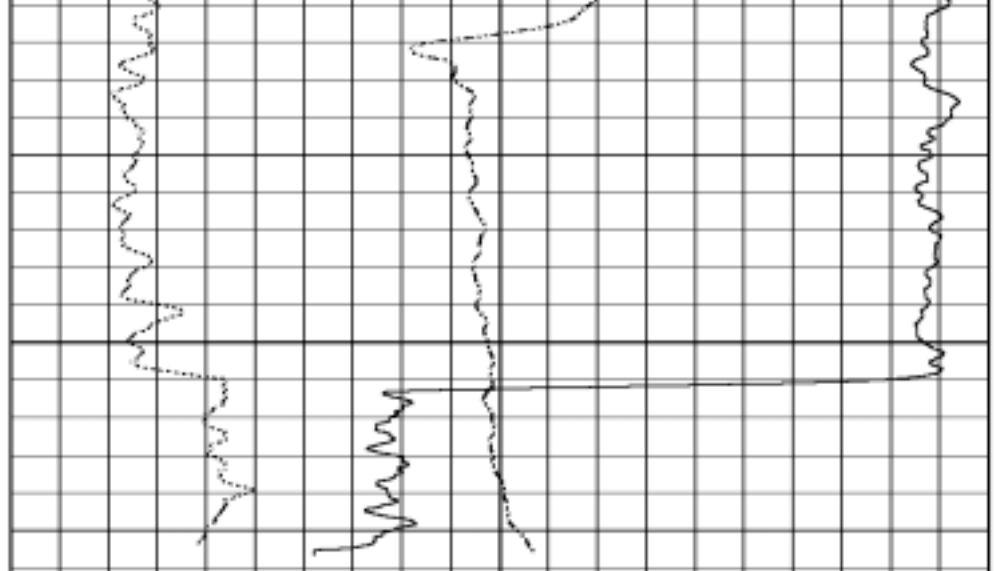
300

325





350  
← F.R.



0.0      API      150.0  
Gamma Ray  
50.0      150      250.0  
Caliper mm

1.2      1.50      3.0  
Density (g/cc)  
00      Ohms      500  
Resistance  
20.2      mv      -20.0  
SP

Time Mark [60.0 s]

RUN: RAV-11-07A  
DIR.: UP  
DATE: 08/11/11  
TIME: 16:31:30

RAV-11-07A

START: 356.20m  
STOP: -0.30m  
RES.: 0.05 m  
SCALE: 200:1 m

# ELECTROLOG DIRECTIONAL SURVEY

COMPANY COMPLIANCE COAL PORP. WELL RAV-11-07A

FIELD RAVEN PROJECT PROV. B.C. DATE 40766.0

BEARING CORRECTION & TOOL READING = S/A BEARING

DEPTH	SLANT ANGLE	S/A BEARING		DEPTH	SLANT ANGLE	S/A BEARING
0	0.58	CASING				
15	0.85	CASING				
30	1.89	201.7				
45	1.93	213.1				
60	2.51	213.3	REPEAT	60	2.94	197.5
75	2.55	196.8				
90	2.85	205.6				
105	3.58	206.2				
120	4.26	215.4	REPEAT	120	4.28	203.9
135	4.71	206.6				
150	4.49	207.9				
165	4.36	193.6				
180	4.47	206.3	REPEAT	180	4.60	203.2
195	4.38	222.4				
210	4.95	198.0				
225	4.84	203.8				
240	4.50	195.6	REPEAT	240	4.63	200.4
255	4.49	187.7				
270	4.47	209.4				
285	4.62	211.5				
300	4.60	183.6	REPEAT	300	4.84	200.6
315	4.93	176.4				
330	5.18	205.4				
345	4.68	208.3				

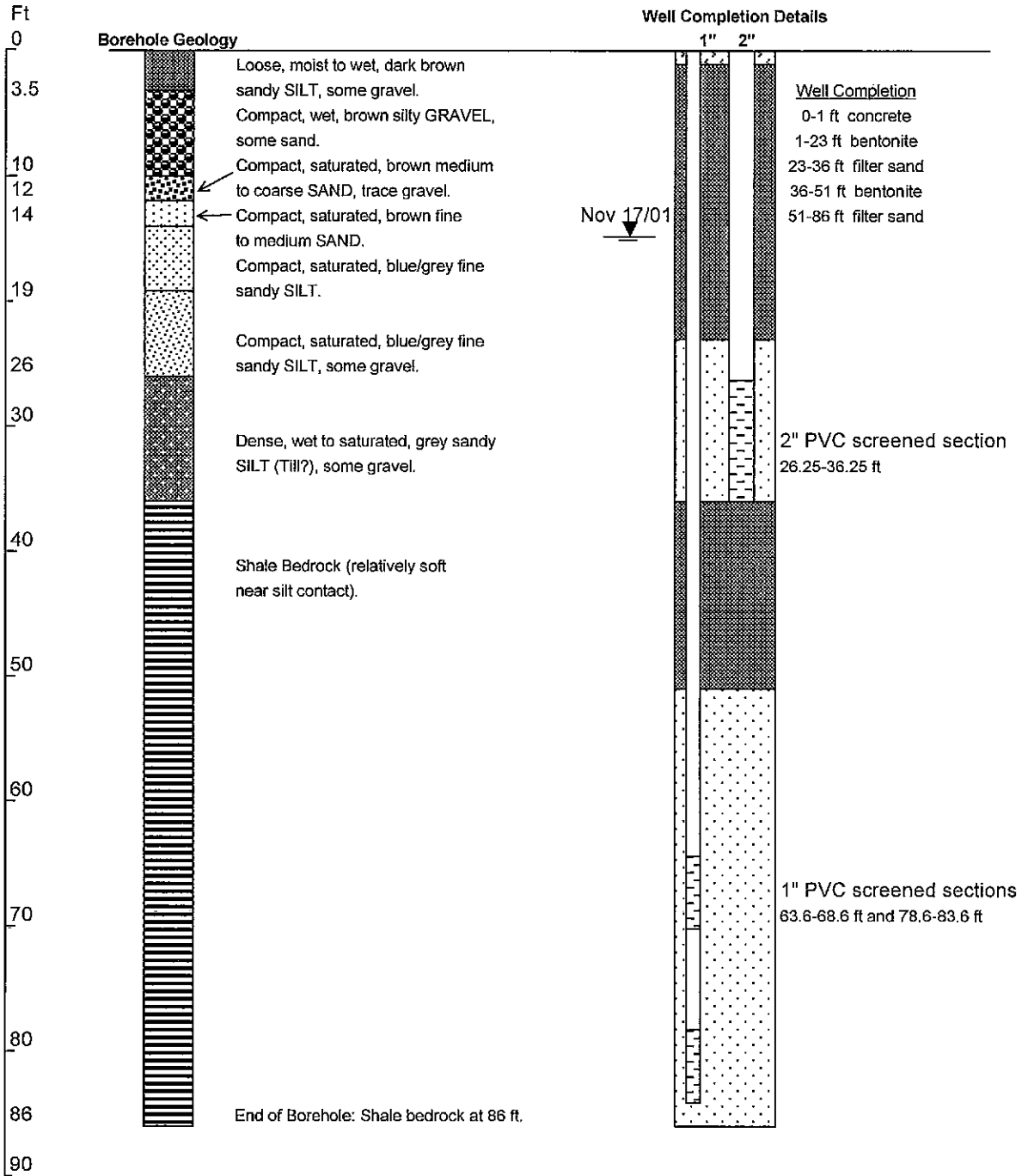
## **APPENDIX C**

### **Graphics and Data on Hillsborough Monitoring Wells**

**WELL COMPLETION DETAILS**  
**T'Sable River Coal Corporation: MW01-A**  
**Project Number: 012-1158**

**Location:** T'Sable River  
**Date Completed:** 17-Nov-01  
**Drilling Method:** Tamrock Driltech D25KW  
**Air Rotary**

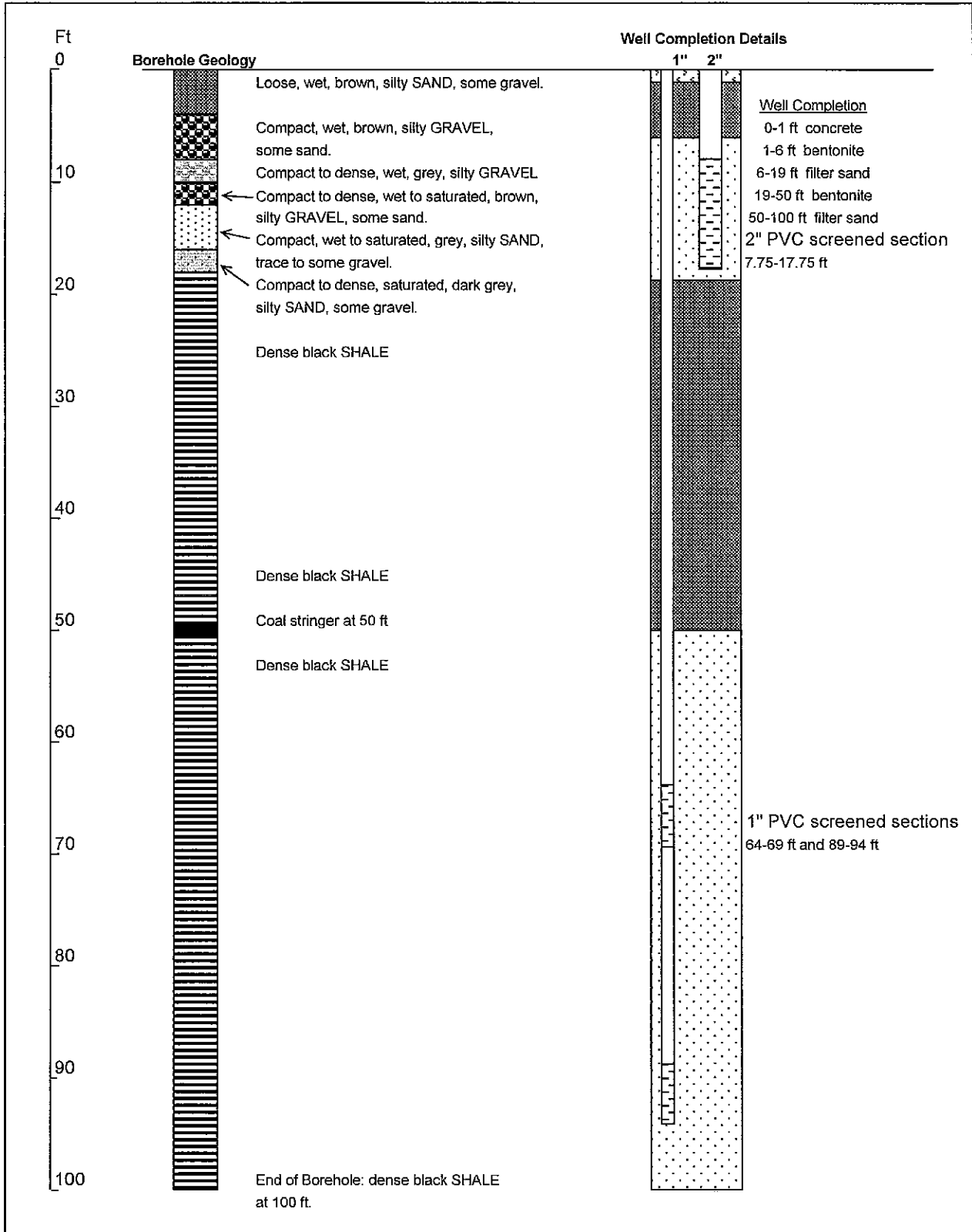
**Casing:** 6 1/8" ID  
**Driller:** Drillwell Enterprises Ltd.  
**Depth:** 0-86 ft



**WELL COMPLETION DETAILS**  
**T'Sable River Coal Corporation: MW01-B**  
**Project Number: 012-1158**

**Location:** T'Sable River  
**Date Completed:** 14-Nov-01  
**Drilling Method:** Tamrock Driltech D25KW  
**Air Rotary**

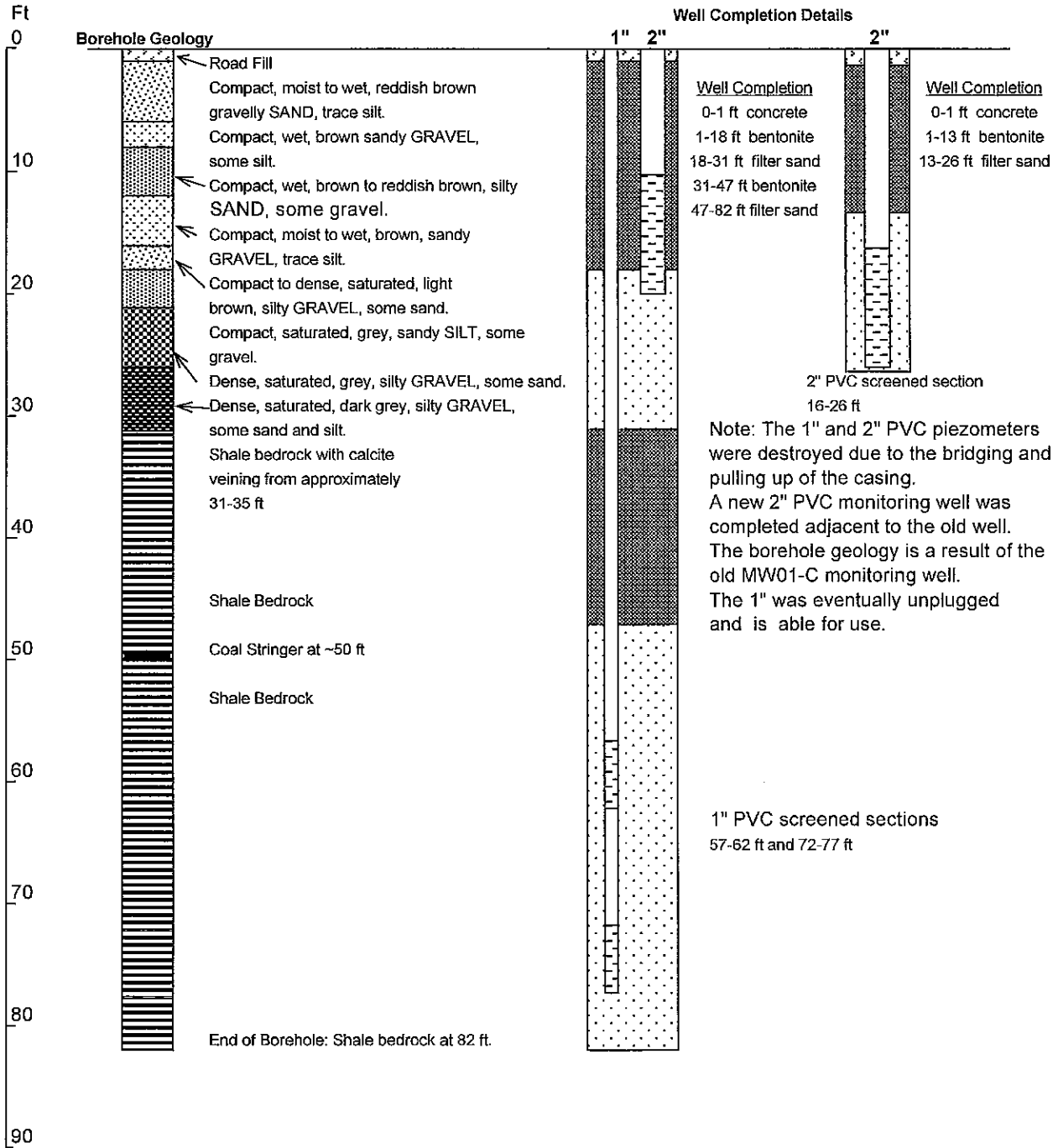
**Casing:** 6 1/8" ID  
**Driller:** Drillwell Enterprises Ltd.  
**Depth:** 0-100 ft



**WELL COMPLETION DETAILS**  
**T'Sable River Coal Corporation: MW01-C**  
**Project Number: 012-1158**

**Location:** T'Sable River  
**Date Completed:** 16-Nov-01  
**Drilling Method:** Tamrock Driltech D25KW  
**Air Rotary**

**Casing:** 61/8" ID  
**Driller:** Drillwell Enterprises Ltd.  
**Depth:** 0-82 ft



**WELL COMPLETION DETAILS**  
**T'Sable River Coal Corporation: MW01-D**  
**Project Number: 012-1158**

**Location:** T'Sable River  
**Date Completed:** 15-Nov-01  
**Drilling Method:** Tamrock Driltech D25KW  
**Air Rotary**

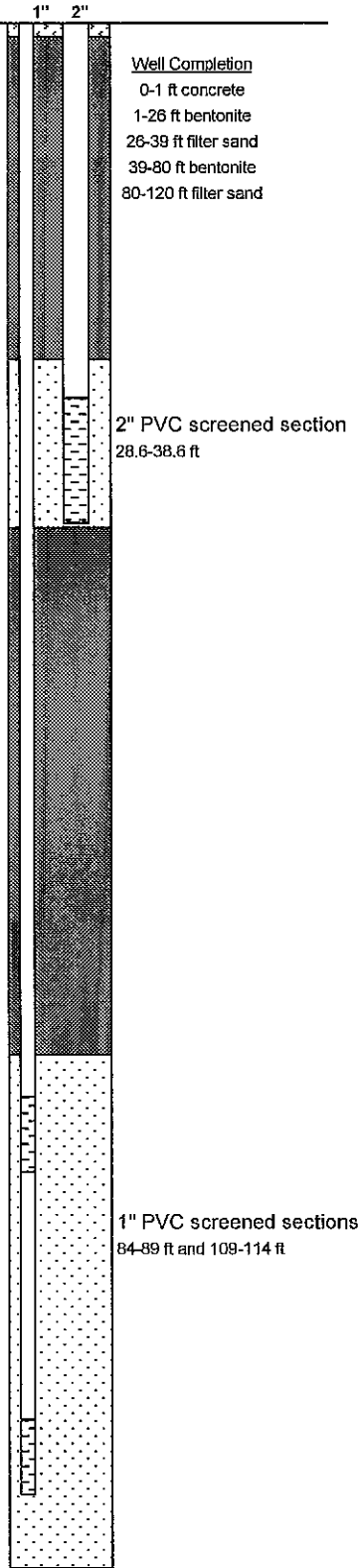
**Casing:** 61/8" ID  
**Driller:** Drillwell Enterprises Ltd.  
**Depth:** 0-120 ft

Ft  
0  
10  
20  
30  
40  
50  
60  
70  
80  
90  
100  
110  
120

**Borehole Geology**

Loose, wet, reddish brown, silty SAND, some gravel.  
Compact, wet, brown, sandy SILT, some gravel.  
Compact, wet, dark brown, gravelly SAND, some silt.  
Compact to dense, wet, reddish brown silty GRAVEL, some sand.  
Compact, wet, brown, gravelly SILT, some sand.  
Compact, saturated, brown SAND  
Compact, saturated, grey-blue sandy SILT.  
Compact to dense, saturated, grey-blue sandy SILT, some gravel.  
Dense, wet, grey-blue sandy SILT (Till?), some gravel, cobbles?  
Dense black SHALE  
Dense black SHALE  
Sandstone stringer at 72 ft.  
Dense black SHALE  
Sandstone stringer at 78 ft.  
Dense black SHALE  
Sandstone stringer at 86 ft.  
Dense black SHALE  
Sandstone stringer at 96 ft.  
Dense black SHALE  
Sandstone stringer at 98 ft.  
Dense black SHALE  
Sandstone at 119 ft.  
End of Borehole: Sandstone at 120 ft.

**Well Completion Details**





## Piezometer Installation Geometry

Installation Type	Identification Number	Ground Surface Elevation (m)	Stick up Height (m)	Filter Sand Interval (m.b.g.s)		Screen Interval (m.b.g.s)		Bottom End of Piezometer (m.b.g.s)
				Top	Bottom	Top	Bottom	
Monitoring Well	MW01-A (deep)	n/a	0.764	15.54	26.21	19.38-20.91	23.96-25.48	25.48
	shallow	n/a	0.787	7.01	10.97	8.00	11.05	11.05
	MW01-B (deep)	n/a	0.640	15.24	30.48	19.51-21.03	27.13-28.65	28.65
	shallow	n/a	0.685	1.83	5.79	2.36	5.41	5.41
	MW01-C (deep)	n/a	0.732	14.33	24.99	17.37-18.90	21.95-23.47	23.38
	shallow	n/a	0.896	3.96	7.95	4.90	7.95	7.95
	MW01-D (deep)	n/a	0.710	24.38	36.58	25.60-27.13	33.22-34.75	34.75
	shallow	n/a	0.714	7.92	11.89	8.72	11.77	11.77
Piezometer	TP01-7	n/a	1.15	n/a	n/a	~2.09	3.09	3.09
	TP01-8	n/a	0.85	n/a	n/a	~2.03	3.03	3.03
	TP01-9	n/a	1.20	n/a	n/a	~2.58	3.58	3.58
	TP01-12	n/a	0.49	n/a	n/a	~1.49	2.49	2.49
	TP01-13	n/a	0.84	n/a	n/a	~2.79	3.79	3.79
	TP01-14	n/a	0.30	n/a	n/a	~1.70	2.70	2.70
	TP01-15	n/a	0.48	n/a	n/a	~0.69	1.69	1.69

Table :T'Sable River Piezometer Water Levels

Well ID	TP01-7		TP01-8		TP01-9		TP01-12		TP01-13		TP01-14		TP01-15	
	G.S. Elevation ( )	G.W. Depth (m.b.g.s)	G.S. Elevation ( )	G.W. Depth (m.b.g.s)	G.S. Elevation ( )	G.W. Depth (m.b.g.s)	G.S. Elevation ( )	G.W. Depth (m.b.g.s)	G.S. Elevation ( )	G.W. Depth (m.b.g.s)	G.S. Elevation ( )	G.W. Depth (m.b.g.s)	G.S. Elevation ( )	G.W. Depth (m.b.g.s)
Reading Date														
Stick up (m)	1.15		0.85		1.20		0.49		0.84		0.30		0.48	
20-Nov-01	1.094		0.634		2.753		1.051		1.65		0.489		0.14	
07-Jan-02	1.07		-		-		-		-		-		-	

### T'Sable River; Field Water Chemistry

Well ID	Date	pH	Conductivity (uS/cm)	Temperature (°C)	Eh (mV)	TDS (ppm)	Weather
Sump (MW01-B)	13-Nov-01	5.56	58	9.1	272.1	-	Overcast, rain
Cowie Creek (at Bridge)	13-Nov-01	7.17	38	8.5	284.3	-	Overcast, rain
	14-Nov-01	6.06	33	8.4	223.8	-	Overcast, rainy periods 11°C
	16-Nov-01	7.45	34.3	8.3	228.1	-	Clouds with sun 9°C
	16-Nov-01	7.19*	24*	8.4*	-	11*	Clouds with sun 9°C
	17-Nov-01	6.92*	28*	6.8*	275.5	14*	Sunny 3°C
	20-Nov-01	7.40*	24*	8.2*	202.2	11*	Overcast, rain 11°C
MW01-A (Shallow)	07-Jan-02	7.37	553	10.6	-	-	Overcast, rain 10°C
	08-Jan-02	8.46*	536*	8.9*	-	271*	Overcast, 10°C
MW01-A (Deep)	07-Jan-02	8.40	541	9.8	-	-	Overcast, rain 10°C
	08-Jan-02	8.39*	618*	8.7*	-	309*	Overcast, 10°C
MW01-B (Shallow)	07-Jan-02	-	-	-	-	-	Overcast, rain 10°C
	08-Jan-02	6.14*	29*	6.1*	-	16*	Overcast, 10°C
MW01-B (Deep)	07-Jan-02	-	-	-	-	-	Overcast, rain 10°C
	08-Jan-02	8.36*	559*	8.3*	-	279*	Overcast, 10°C
MW01-C (Shallow)	20-Nov-01	6.54*	180*	11*	231.0	90*	Overcast, rain 11°C
	20-Nov-01	6.67*	149*	10.5*	175.4	72*	Overcast, rain 11°C
	07-Jan-02	-	-	-	-	-	Overcast, rain 10°C
	08-Jan-02	6.29*	155	9.6*	-	77*	Overcast, 10°C
MW01-C (Deep)	07-Jan-02	-	-	-	-	-	Overcast, rain 10°C
	08-Jan-02	8.27*	647*	8.7*	-	322*	Overcast, 10°C
MW01-D (Shallow)	07-Jan-02	5.63	644	10.1	-	-	Overcast, rain 10°C
	08-Jan-02	7.35*	610*	8.2*	-	308*	Overcast, 10°C
MW01-D (Deep)	07-Jan-02	-	-	-	-	-	Overcast, rain 10°C
	08-Jan-02	7.19*	6.31 ms/cm	8.3*	-	over 2000*	Overcast, 10°C

Notes: \* indicates the Hanna HI 991300 pH/EC/TDS/Temp probe

All other measurements are from the Hanna HI 9025 pH/Eh Probe and the Hanna HI 9033 Conductivity probe

**Table :T'Sable River Groundwater Water Levels**

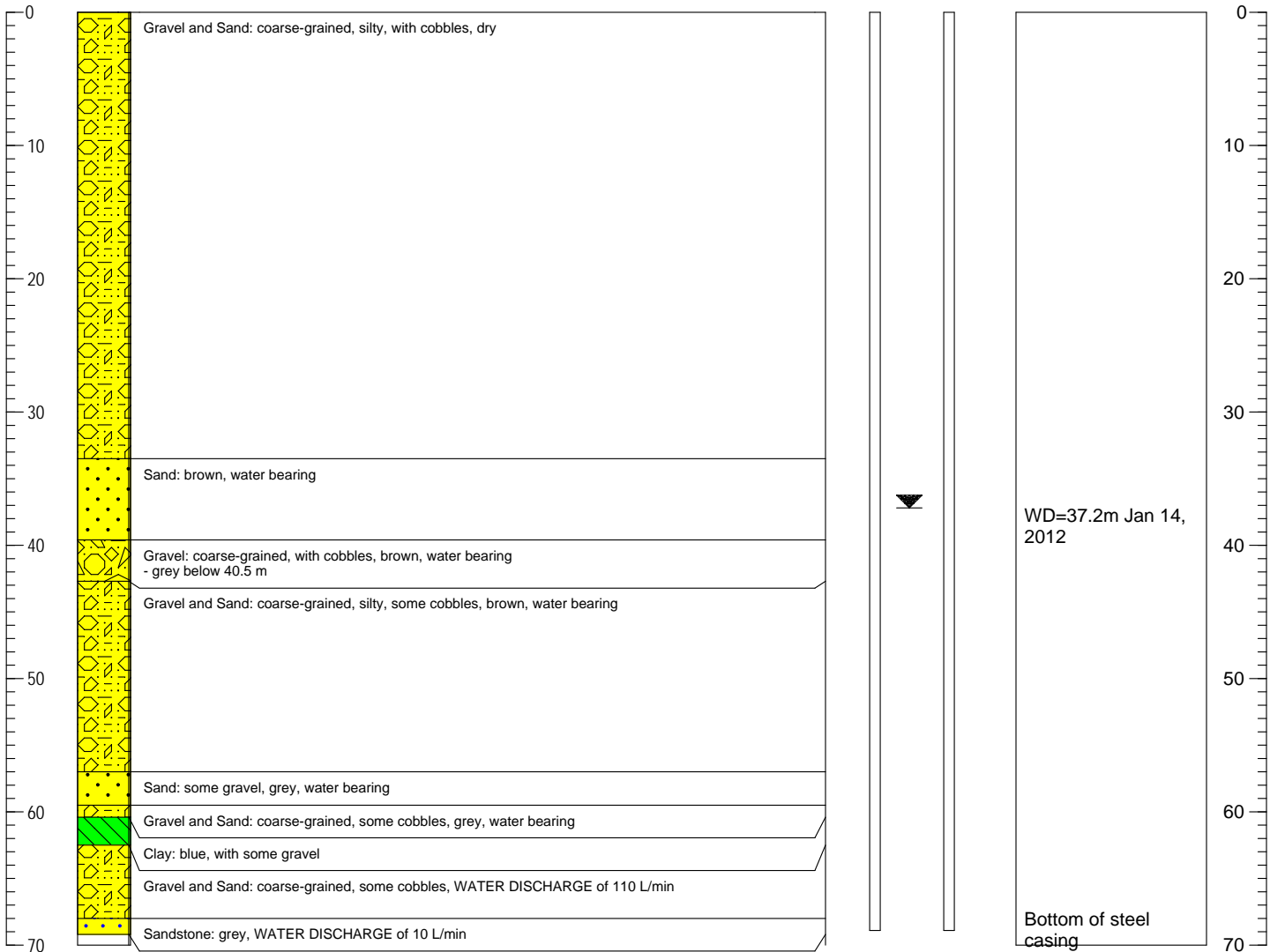
Well ID	MW01-A (Deep)	MW01-A (Shallow)	MW01-B (Deep)	MW01-B (Shallow)	MW01-C (Deep)	MW01-C (Shallow)	MW01-D (Deep)	MW01-D (Shallow)
Reading Date	G.S. Elevation ( )	G.S. Elevation ( )	G.S. Elevation ( )	G.S. Elevation ( )	G.S. Elevation ( )	G.S. Elevation ( )	G.S. Elevation ( )	G.S. Elevation ( )
	G.W. Depth (m.b.g.s)	G.W. Depth (m.b.g.s)	G.W. Depth (m.b.g.s)	G.W. Depth (m.b.g.s)	G.W. Depth (m.b.g.s)	G.W. Depth (m.b.g.s)	G.W. Depth (m.b.g.s)	G.W. Depth (m.b.g.s)
<b>Stick up (m)</b>	<b>0.764</b>	<b>0.787</b>	<b>0.64</b>	<b>0.685</b>	<b>0.732</b>	<b>0.896</b>	<b>0.71</b>	<b>0.714</b>
14-Nov-01	-	-	0.20	0.699	-	-	-	-
16-Nov-01	-	-	1.17	0.603	-	-	2.73	3.256
17-Nov-01	4.850	dry	1.29	0.641	-	2.733	2.61	2.932
20-Nov-01	1.116	1.328	1.06	0.498	-	2.394	2.39	2.567
11-Dec-01	-	-	-	-	2.478	-	-	-
07-Jan-02	0.795	1.193	1.05	0.525	2.126	2.138	2.28	2.449
08-Jan-02	-	8.443	17.37	0.660	2.789	2.390	-	3.451

**Note:** The monitoring wells were developed on Jan 7, 2002.

## **APPENDIX D**

### **Graphic Logs of 2009 Drill Holes**

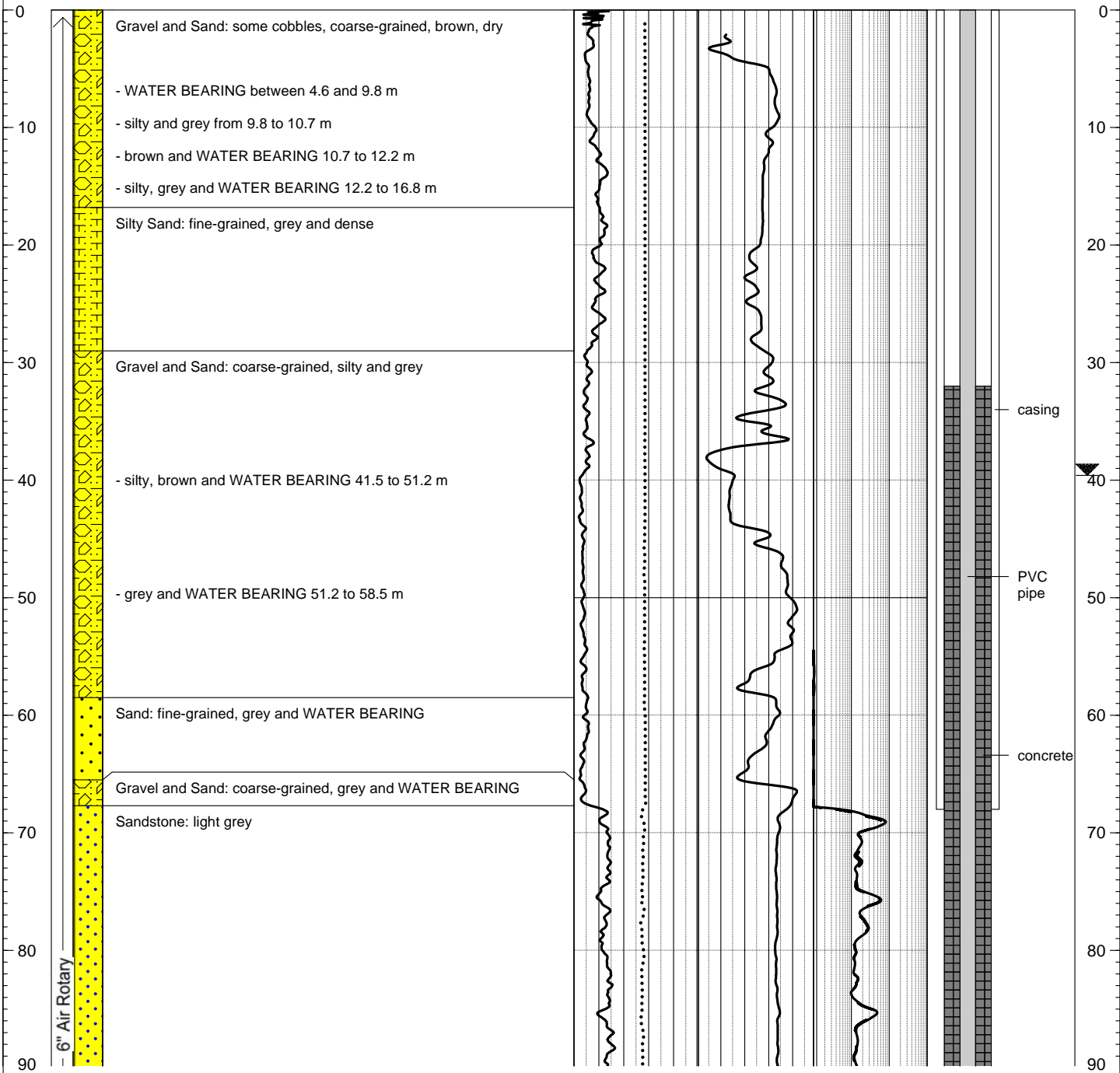
Drilled By <b>Drillwell Enterprises</b>		Cuttings/Core Description By <b>Drillwell</b>		DH ID <b>AD-2009</b>			
Date Completed <b>July 5, 2009</b>		Date Logged <b>July 5, 2009</b>		Location UTM Zone <b>10 NAD 83</b>			
Drilling Type <b>Air Rotary</b>	T.D. <b>69.2 m</b>	Geophysical Logger <b>NA</b>		Easting (m)	Northing (m)	Elevation (m)	
Hole Size <b>6"</b>	Angle <b>90 deg</b>	Date Logged <b>NA</b>		<b>366402</b>	<b>5482274</b>	<b>173.77</b>	
Depth (m)	Lithology Graphic	Lithology Description			Drill Hole Construction	Comments	Depth (m)



Compliance Coal Corp.		
Raven Coal Project		
Hydrogeological Drilling Program, 2009		
February 22, 2012	Scale: 1:500	FIGURE D-AD-2009

Drilled By	Drillwell Enterprises	Cuttings/Core Description By	AB	DH ID	RAV-09-006		
Date Completed		June 1-6, 2009		Date Logged	June 1-6, 2009		Location UTM Zone NAD 83
Drilling Type	D-09-06	T.D.	179.1 m	Geophysical Logger	Weatherford		Easting (m)
Hole Size	6"	Angle	-90	Date Logged	June 6, 2009		365554
							5483048
							185.9

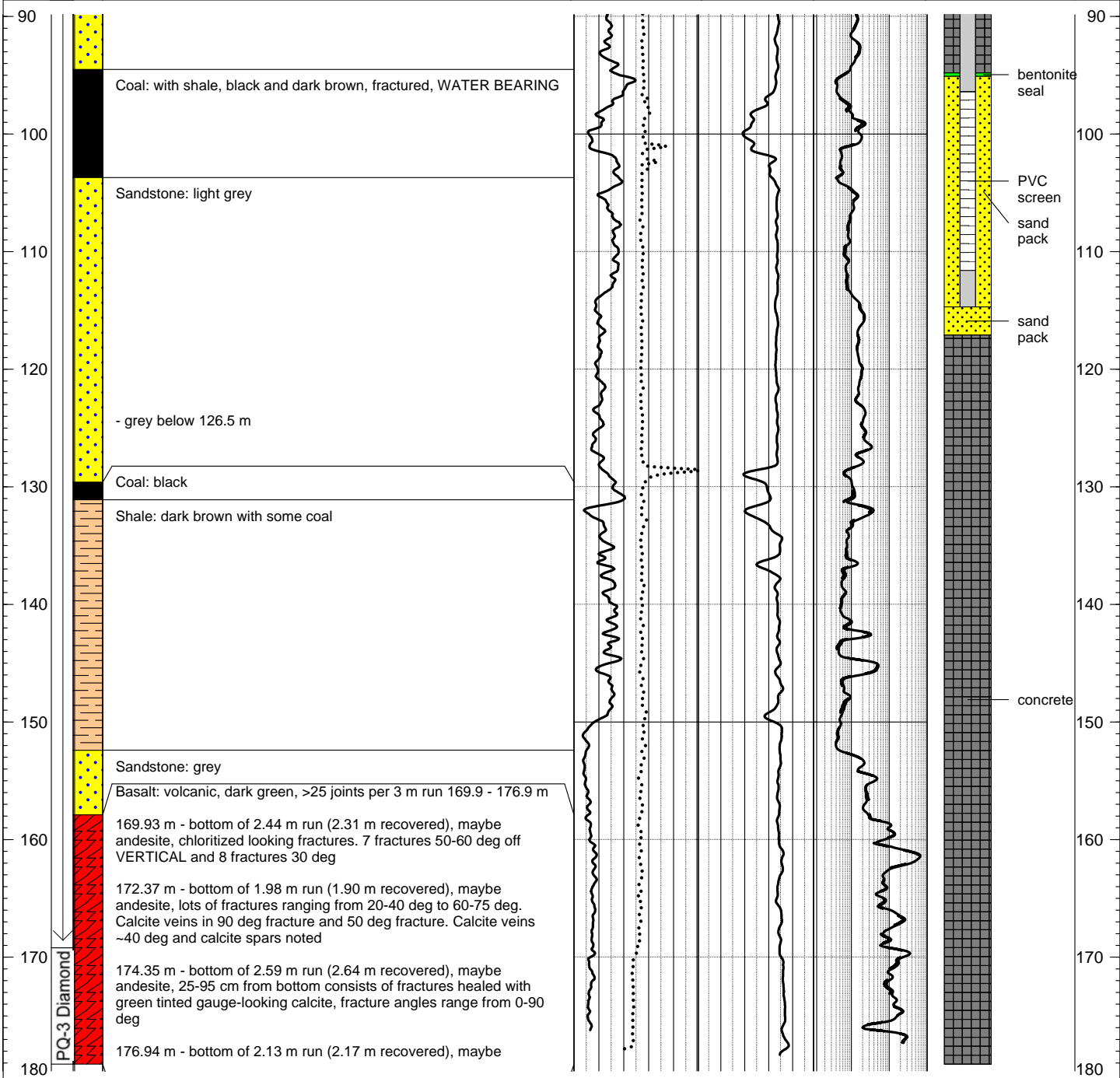
Depth (m)	Drill Type	Lithology Symbol	Lithology and Water Observations	Gamma	Density	Res-S	Backfill and Equipment Installation	Depth (m)
				0 API 200	0 g/cc 4	10 10000		
				Caliper		Res-D		
				0 mm 300		10 10000		
				.....		---		



Compliance Coal Corp.		
Raven Coal Project		
Hydrogeological Drilling Program, 2009		
February 23, 2012	Scale 1:500	Figure D-09-06

Drilled By	Drillwell Enterprises	Cuttings/Core Description By	AB	DH ID	RAV-09-006			
Date Completed		June 1-6, 2009		Date Logged	June 1-6, 2009		Location UTM Zone	NAD 83
Drilling Type	D-09-06	T.D.	179.1 m	Geophysical Logger	Weatherford		Easting (m)	365554
		Angle	-90	Date Logged	June 6, 2009		Northing (m)	5483048
Hole Size	6"						Elevation (m)	185.9

Depth (m)	Drill Type	Lithology Symbol	Lithology and Water Observations	Gamma	Density	Res-S	Backfill and Equipment Installation	Depth (m)
				0 API 200	0 g/cc 4	10 10000		
				Caliper		Res-D		
				0 mm 300		10 10000		
				.....		---		

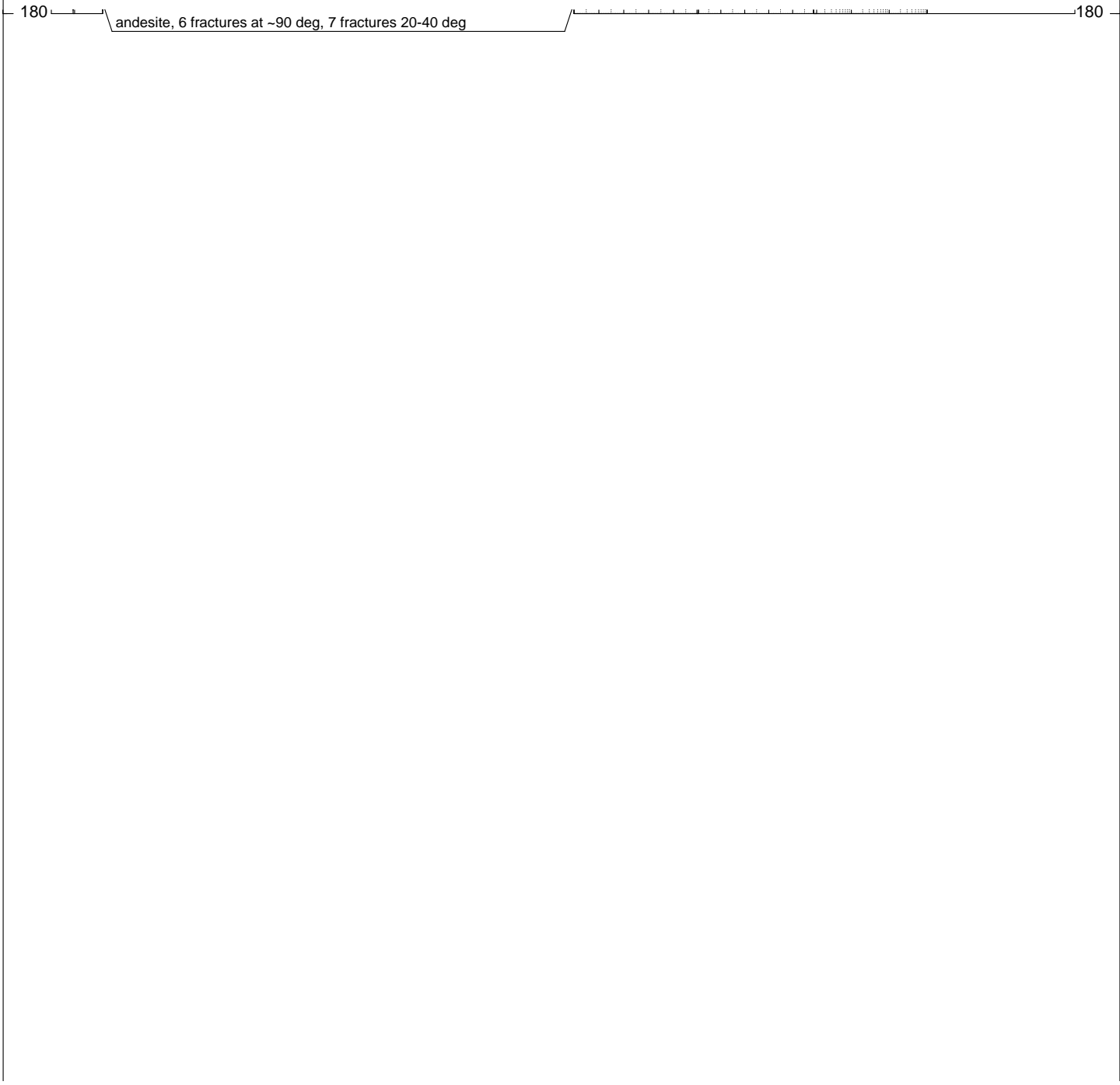


Compliance Coal Corp.		
Raven Coal Project		
Hydrogeological Drilling Program, 2009		
February 23, 2012	Scale 1:500	Figure D-09-06



Drilled By Drillwell Enterprises		Cuttings/Core Description By AB		DH ID RAV-09-006		
Date Completed June 1-6, 2009		Date Logged June 1-6, 2009		Location UTM Zone NAD 83		
Drilling Type D-09-06	T.D. 179.1 m	Geophysical Logger Weatherford		Easting (m)	Northing (m)	Elevation (m)
Hole Size 6"	Angle -90	Date Logged June 6, 2009		365554	5483048	185.9

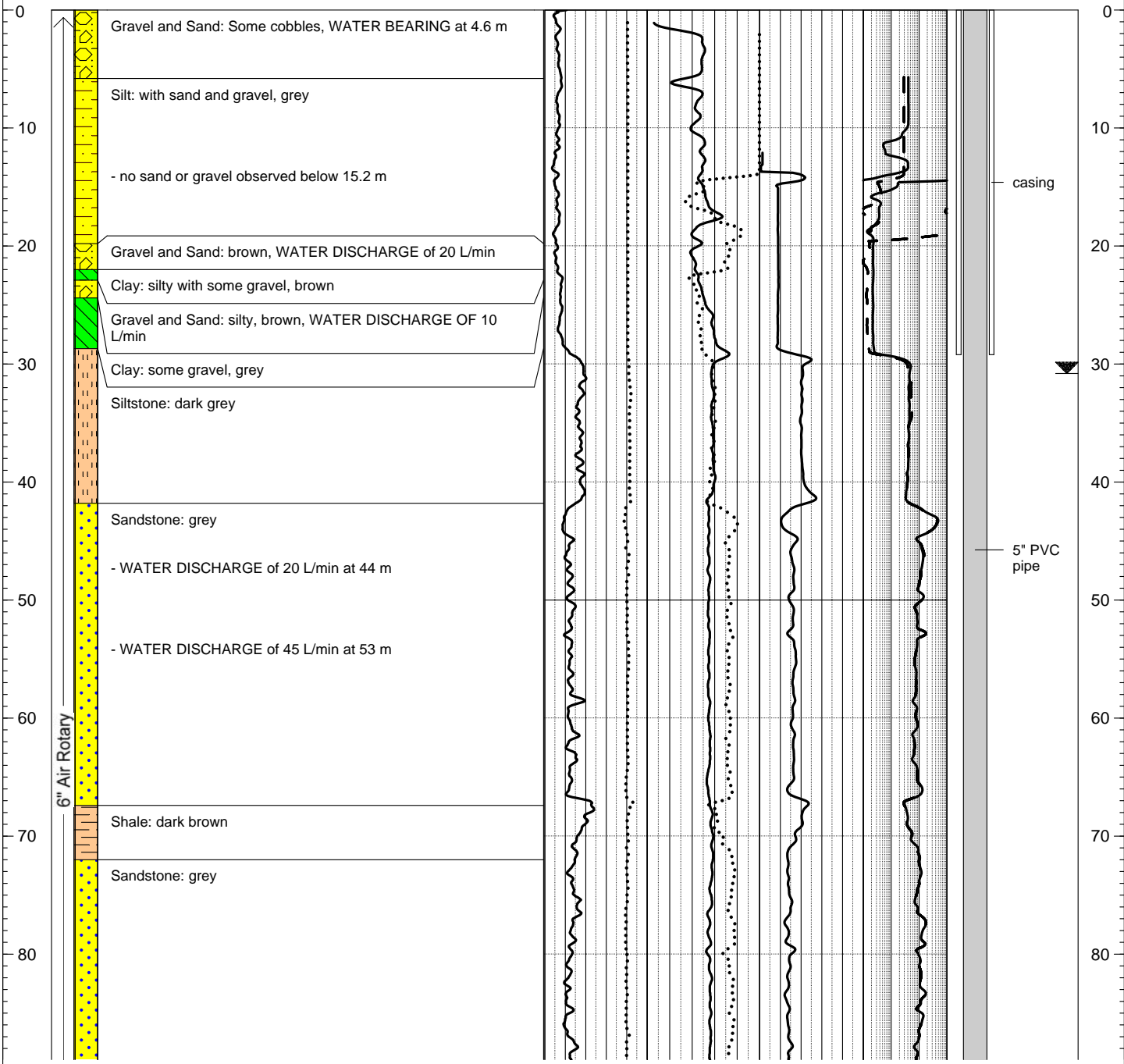
Depth (m)	Drill Type	Lithology Symbol	Lithology and Water Observations	Gamma	Density	Res-S	Backfill and Equipment Installation	Depth (m)
				0 API 200	0 g/cc 4	10 10000		
				Caliper		Res-D		
				0 mm 300		10 10000		
				.....		---		



Compliance Coal Corp.		
Raven Coal Project		
Hydrogeological Drilling Program, 2009		
February 23, 2012	Scale 1:500	Figure D-09-06

Drilled By	Drillwell Enterprises	Cuttings/Core Description By	EP/FS	DH ID	RAV-09-012	
Date Completed	June 29, 2009	Date Logged	June 25-29, 2009	Location UTM Zone 10 NAD 83		
Drilling Type	Air Rotary/PQ3	T.D.	324.2 m	Geophysical Logger	Weatherford	Easting (m)
Hole Size	6"	Angle	-90	Date Logged	June 30, 2009	365810
						5483763
						133.4

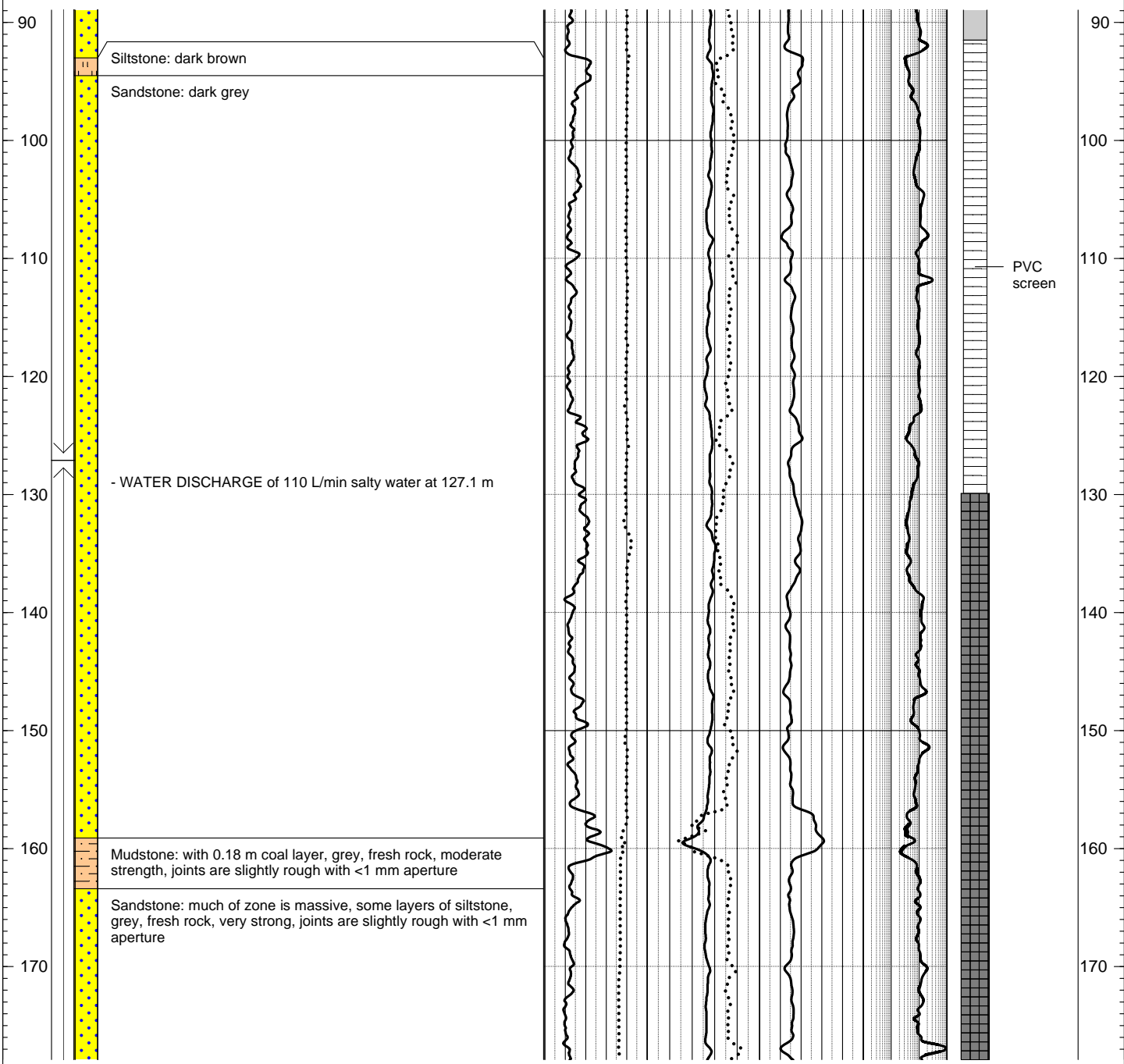
Depth (m)	Drill Type	Lithology Symbol	Lithology and Water Observations	Gamma	Density	Sonic	Res-S	Backfill and Equipment Installation	Depth (m)
				0 API 200	1 g/cc 4	100us/m600	1 1000		
				Caliper	Porosity		Res-D		
				0 mm 200	100 % 0		1 1000		
				.....	.....		- - -		



Compliance Coal Corp.	
Raven Coal Project	
Hydrogeological Drilling Program, 2009	
February 23, 2012	Scale 1:500
Figure D-RAV-09-012	

Drilled By	Drillwell Enterprises	Cuttings/Core Description By	EP/FS	DH ID	RAV-09-012			
Date Completed	June 29, 2009	Date Logged	June 25-29, 2009	Location UTM Zone 10 NAD 83				
Drilling Type	Air Rotary/PQ3	T.D.	324.2 m	Geophysical Logger	Weatherford	Easting (m)	Northing (m)	Elevation (m)
Hole Size	6"	Angle	-90	Date Logged	June 30, 2009	365810	5483763	133.4

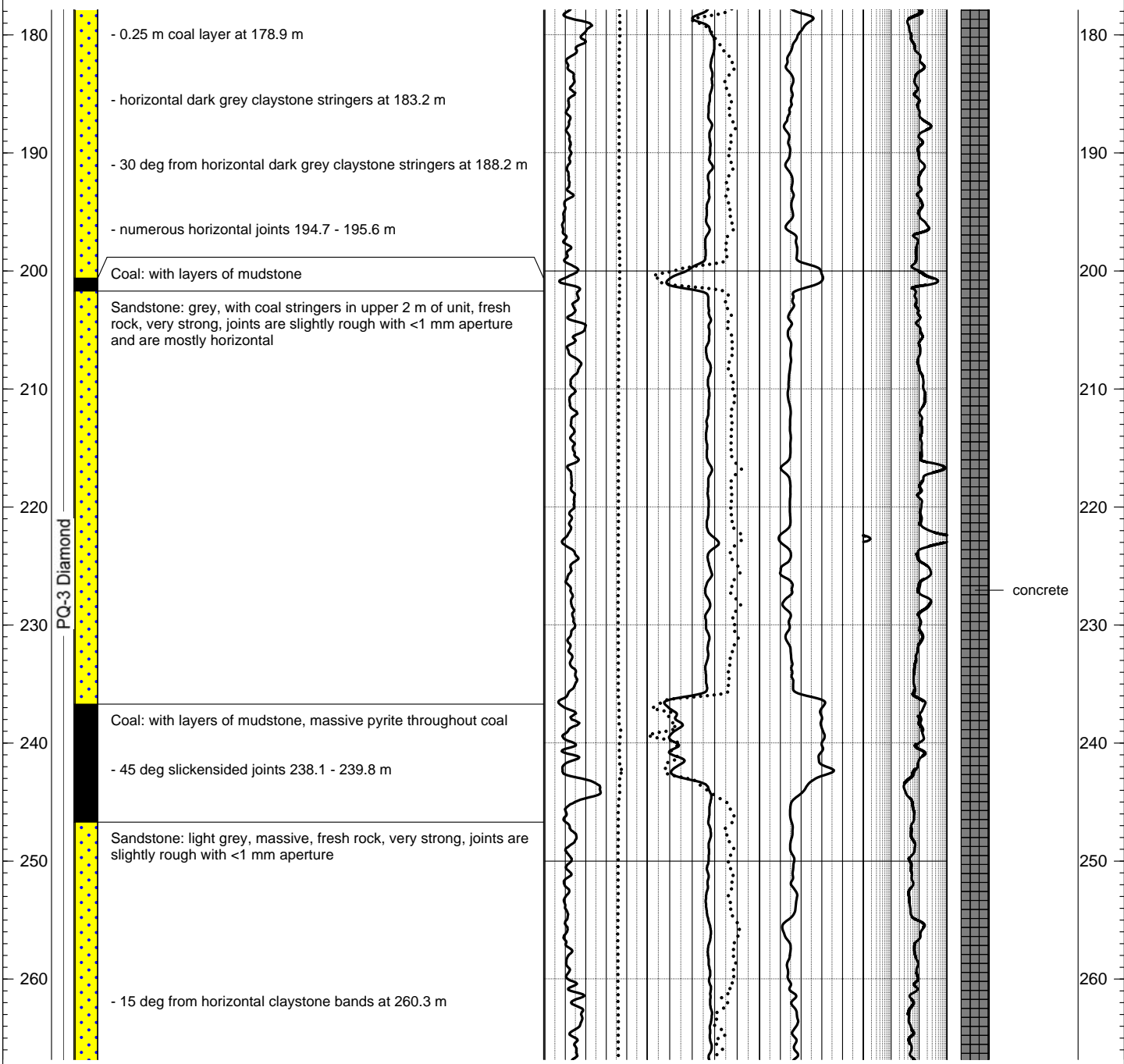
Depth (m)	Drill Type	Lithology Symbol	Lithology and Water Observations	Gamma	Density	Sonic	Res-S	Backfill and Equipment Installation	Depth (m)
				0 API 200	1 g/cc 4	100us/m600	1 1000		
				Caliper	Porosity		Res-D		
				0 mm 200	100 % 0		1 1000		
				.....	.....		- - -		



Compliance Coal Corp.	
Raven Coal Project	
Hydrogeological Drilling Program, 2009	
February 23, 2012	Scale 1:500
Figure D-RAV-09-012	

Drilled By	Drillwell Enterprises	Cuttings/Core Description By	EP/FS	DH ID	RAV-09-012	
Date Completed	June 29, 2009	Date Logged	June 25-29, 2009	Location UTM Zone 10 NAD 83		
Drilling Type	Air Rotary/PQ3	T.D.	324.2 m	Geophysical Logger	Weatherford	Easting (m)
Hole Size	6"	Angle	-90	Date Logged	June 30, 2009	365810
						5483763
						133.4

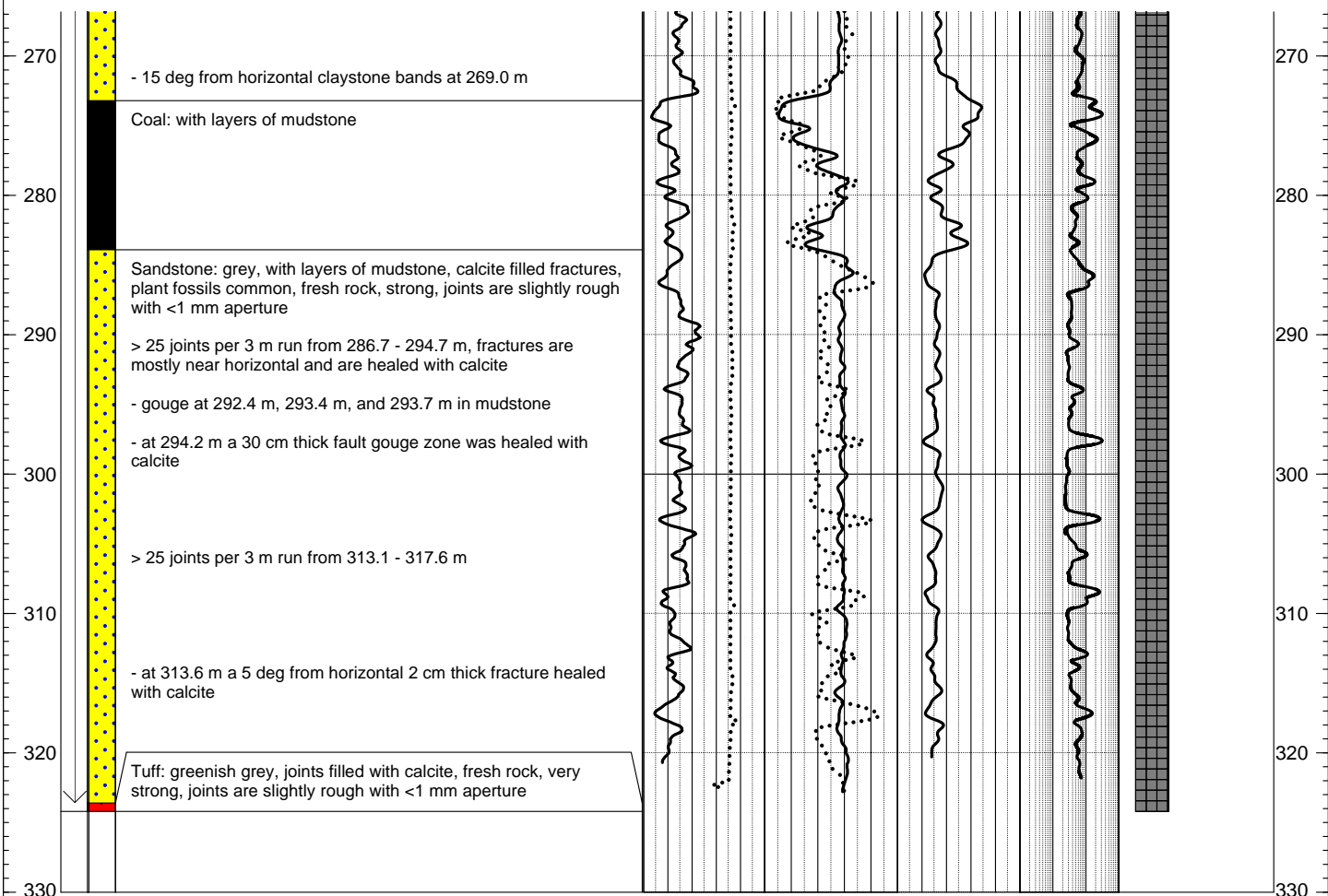
Depth (m)	Drill Type	Lithology Symbol	Lithology and Water Observations	Gamma	Density	Sonic	Res-S	Backfill and Equipment Installation	Depth (m)
				0 API 200	1 g/cc 4	100us/m600	1 1000		
				Caliper	Porosity		Res-D		
				0 mm 200	100 % 0		1 1000		
				.....	.....		- - -		



Compliance Coal Corp.	
Raven Coal Project	
Hydrogeological Drilling Program, 2009	
February 23, 2012	Scale 1:500
Figure D-RAV-09-012	

Drilled By Drillwell Enterprises		Cuttings/Core Description By EP/FS		DH ID RAV-09-012		
Date Completed June 29, 2009		Date Logged June 25-29, 2009		Location UTM Zone 10 NAD 83		
Drilling Type Air Rotary/PQ3	T.D. 324.2 m	Geophysical Logger Weatherford		Easting (m)	Northing (m)	Elevation (m)
Hole Size 6"	Angle -90	Date Logged June 30, 2009		365810	5483763	133.4

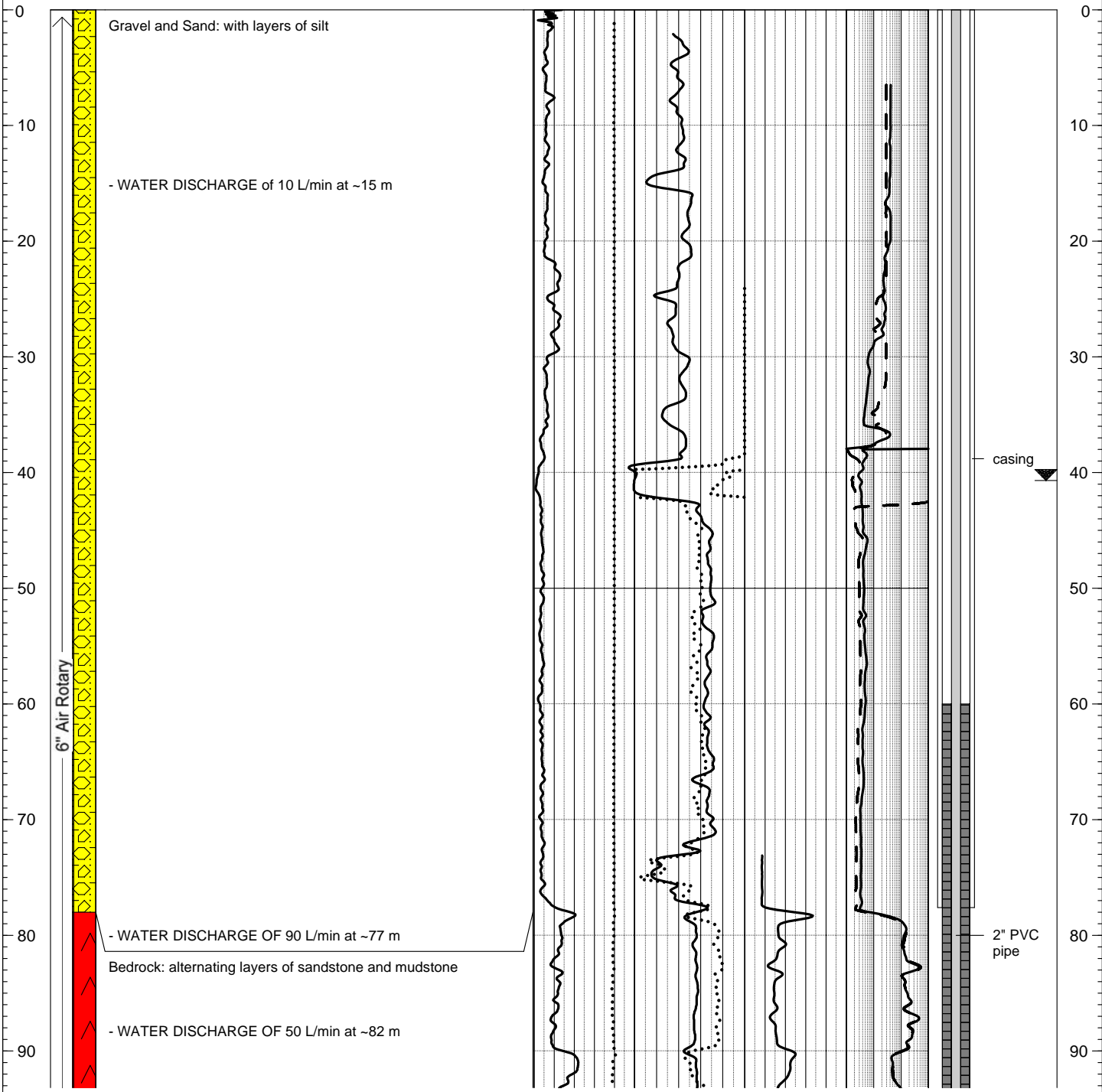
Depth (m)	Drill Type	Lithology Symbol	Lithology and Water Observations	Gamma	Density	Sonic	Res-S	Backfill and Equipment Installation	Depth (m)
				0 API 200	1 g/cc 4	100us/m600	1 1000		
				Caliper	Porosity		Res-D		
				0 mm 200	100 % 0		1 1000		
				.....	.....		- - -		



Compliance Coal Corp.	
Raven Coal Project	
Hydrogeological Drilling Program, 2009	
February 23, 2012	Scale 1:500
Figure D-RAV-09-012	

Drilled By	Drillwell Enterprises	Cuttings/Core Description By	DH/FS	DH ID	RAV-09-022	
Date Completed	Sept 15, 2009	Date Logged	Sept 11-15, 2009	Location UTM Zone 10 NAD 83		
Drilling Type	Air Rotary/PQ3	T.D.	168.3 m	Geophysical Logger	Weatherford	Easting (m)
Hole Size	6"	Angle	-90	Date Logged	Sept 15, 2009	366174
						5482646
						179.5

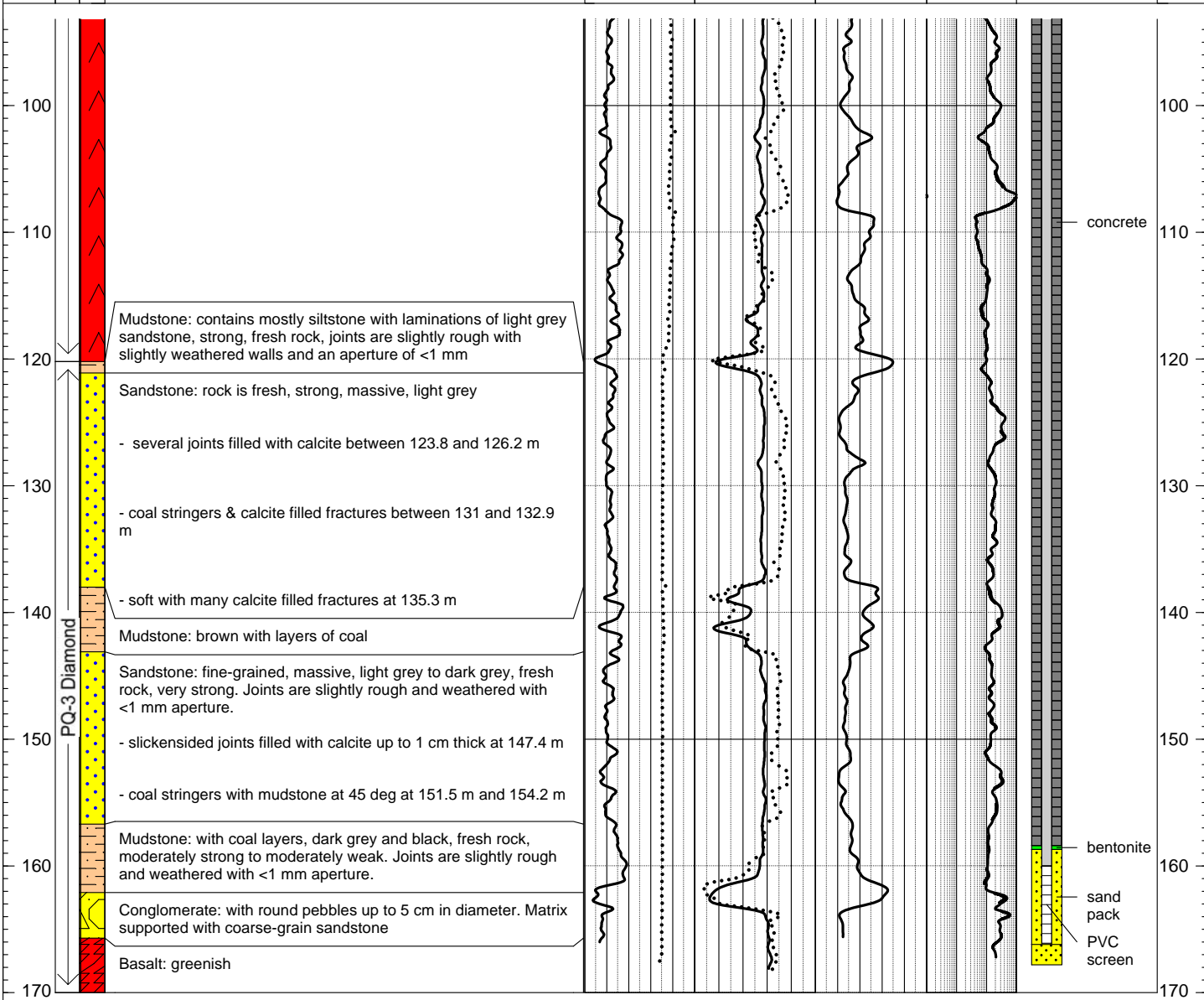
Depth (m)	Drill Type	Lithology Symbol	Lithology and Water Observations	Gamma	Density	Sonic	Res-S	Backfill and Equipment Installation	Depth (m)
				0 API 200	1 g/cc 4	100us/m600	1 1000		
				Caliper	Porosity		Res-D		
				0 mm 200	100 % 0		1 1000		
				.....	.....		- - -		



Compliance Coal Corp.	
Raven Coal Project	
Hydrogeological Drilling Program, 2009	
February 23, 2012	Scale 1:500
Figure D-09-022	

Drilled By	Drillwell Enterprises	Cuttings/Core Description By	DH/FS	DH ID	RAV-09-022	
Date Completed	Sept 15, 2009	Date Logged	Sept 11-15, 2009	Location UTM Zone 10 NAD 83		
Drilling Type	Air Rotary/PQ3	T.D.	168.3 m	Geophysical Logger	Weatherford	Easting (m)
Hole Size	6"	Angle	-90	Date Logged	Sept 15, 2009	366174
						5482646
						179.5

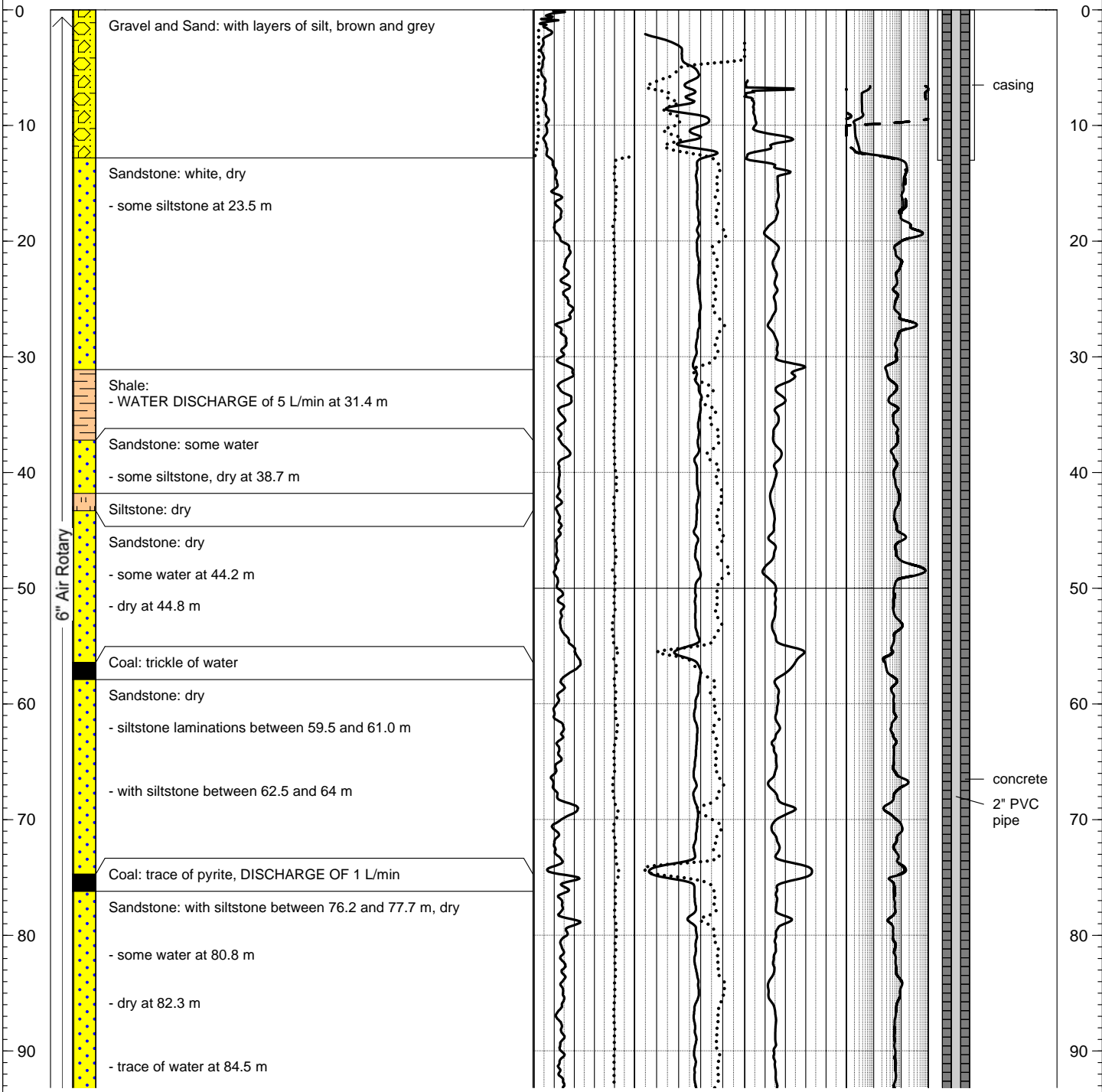
Depth (m)	Drill Type	Lithology Symbol	Lithology and Water Observations	Gamma	Density	Sonic	Res-S	Backfill and Equipment Installation	Depth (m)
				0 API 200	1 g/cc 4	100us/m600	1 1000		
				Caliper	Porosity		Res-D		
				0 mm 200	100 % 0		1 1000		
				.....	.....		- - -		



Compliance Coal Corp.	
Raven Coal Project	
Hydrogeological Drilling Program, 2009	
February 23, 2012	Scale 1:500
Figure D-09-022	

Drilled By	Drillwell Enterprises	Cuttings/Core Description By	DH	DH ID	RAV-09-034			
Date Completed	August 15, 2009	Date Logged	August 10-15, 2009	Location UTM Zone 10 NAD 83				
Drilling Type	Air Rotary/PQ3	T.D.	187.3 m	Geophysical Logger	Weatherford	Easting (m)	Northing (m)	Elevation (m)
Hole Size	6"	Angle	-90	Date Logged	August 15, 2009	364304	5484572	128.5

Depth (m)	Drill Type	Lithology Symbol	Lithology and Water Observations	Gamma	Density	Sonic	Res-S	Backfill and Equipment Installation	Depth (m)
				0 API 200	1 g/cc 4	100us/m600	1 1000		
				Caliper	Porosity		Res-D		
				0 mm 200	100 % 0		1 1000		
				.....	.....		- - -		

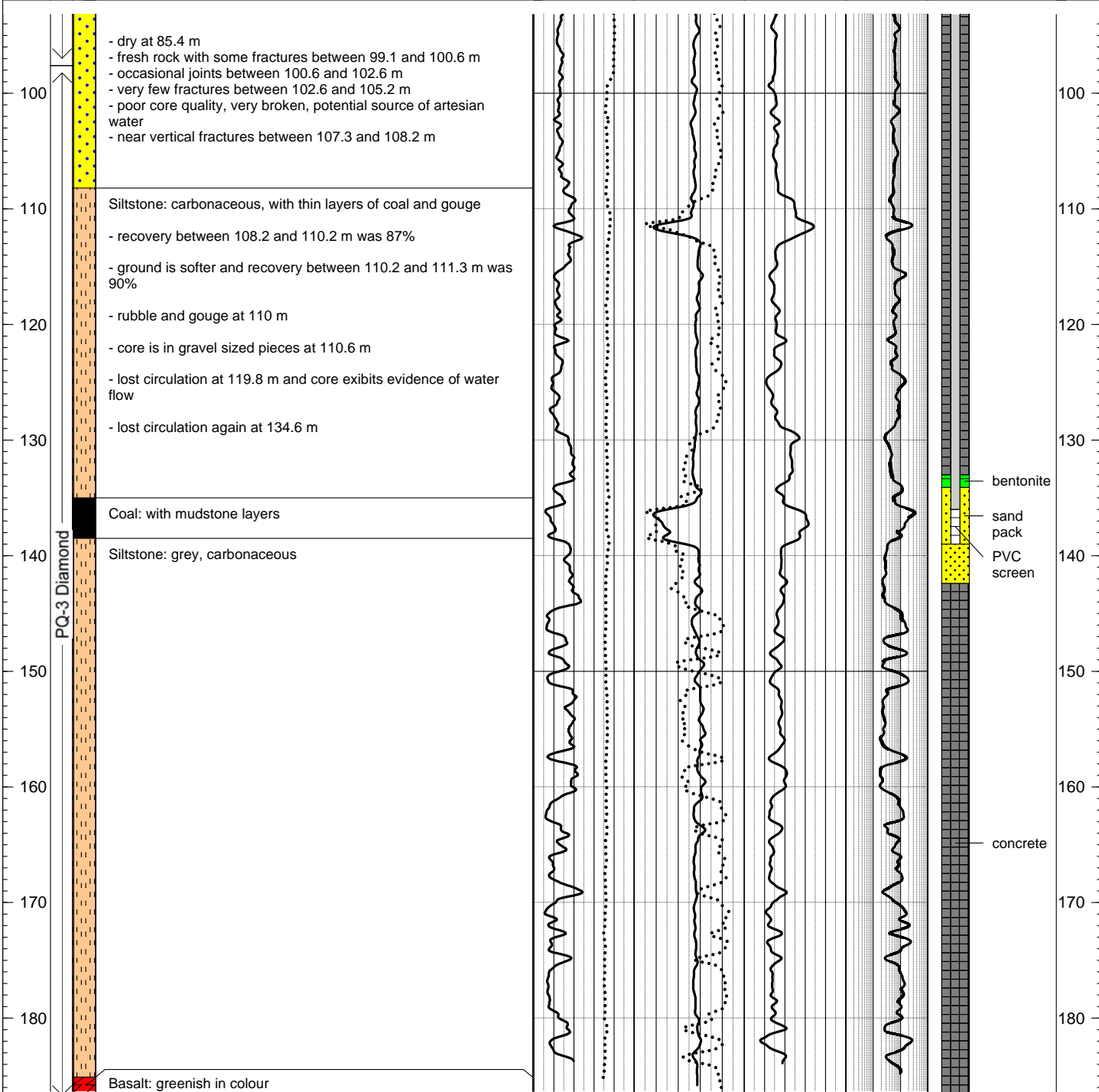


Compliance Coal Corp.	
Raven Coal Project	
Hydrogeological Drilling Program, 2009	
February 23, 2012	Scale 1:500
Figure D-09-034	



Drilled By	Drillwell Enterprises	Cuttings/Core Description By	DH	DH ID	RAV-09-034	
Date Completed	August 15, 2009	Date Logged	August 10-15, 2009	Location UTM Zone 10 NAD 83		
Drilling Type	Air Rotary/PQ3	T.D.	187.3 m	Geophysical Logger	Weatherford	Easting (m)
Hole Size	6"	Angle	-90	Date Logged	August 15, 2009	364304
						5484572
						128.5

Depth (m)	Drill Type	Lithology Symbol	Lithology and Water Observations	Gamma	Density	Sonic	Res-S	Backfill and Equipment Installation	Depth (m)
				0 API 200	1 g/cc 4	100us/m600	1 1000		
				Caliper	Porosity		Res-D		
				0 mm 200	100 % 0		1 1000		
				.....	.....		- - -		



Compliance Coal Corp.	
Raven Coal Project	
Hydrogeological Drilling Program, 2009	
February 23, 2012	Scale 1:500
Figure D-09-034	

Drilled By	Drillwell Enterprises	Cuttings/Core Description By	DH	DH ID	RAV-09-034	
Date Completed	August 15, 2009	Date Logged	August 10-15, 2009	Location UTM Zone 10 NAD 83		
Drilling Type	Air Rotary/PQ3	T.D.	187.3 m	Geophysical Logger	Weatherford	
Hole Size	6"	Angle	-90	Date Logged	August 15, 2009	
				364304	5484572	128.5

Depth (m)	Drill Type	Lithology Symbol	Lithology and Water Observations	Gamma	Density	Sonic	Res-S	Backfill and Equipment Installation	Depth (m)
				0 API 200	1 g/cc 4	100us/m600	1 1000		
				Caliper	Porosity		Res-D		
				0 mm 200	100 % 0		1 1000		
				.....	.....		- - -		

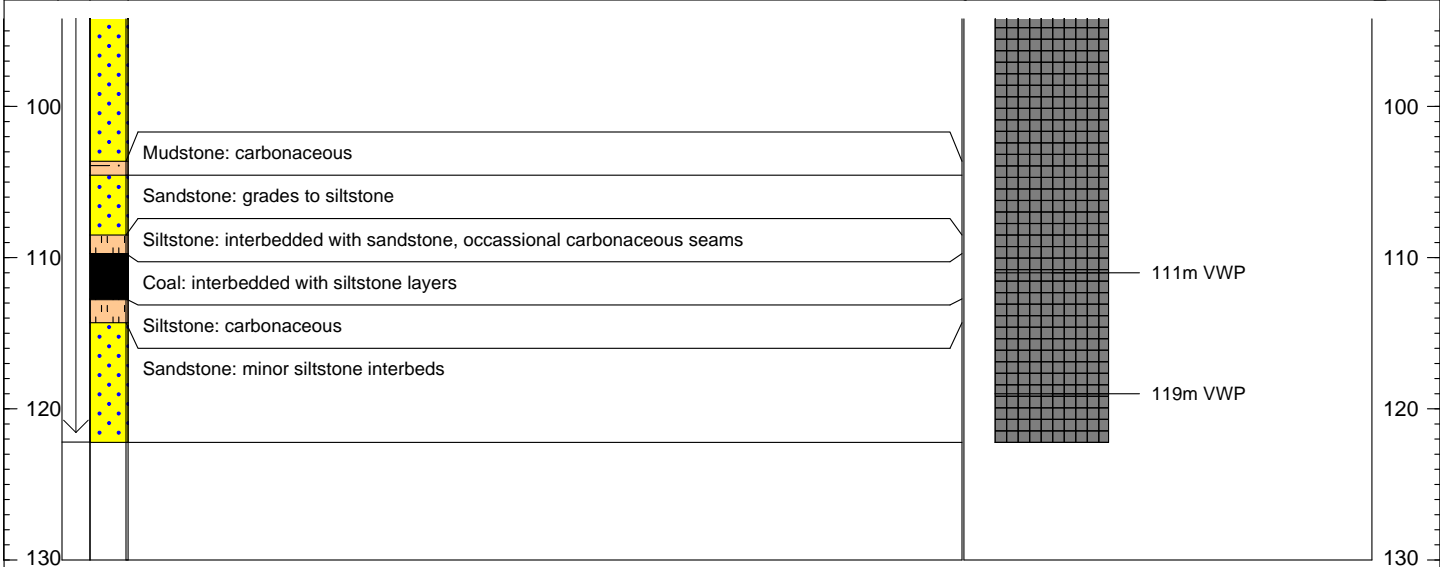


Compliance Coal Corp.	
Raven Coal Project	
Hydrogeological Drilling Program, 2009	
February 23, 2012	Scale 1:500
Figure D-09-034	



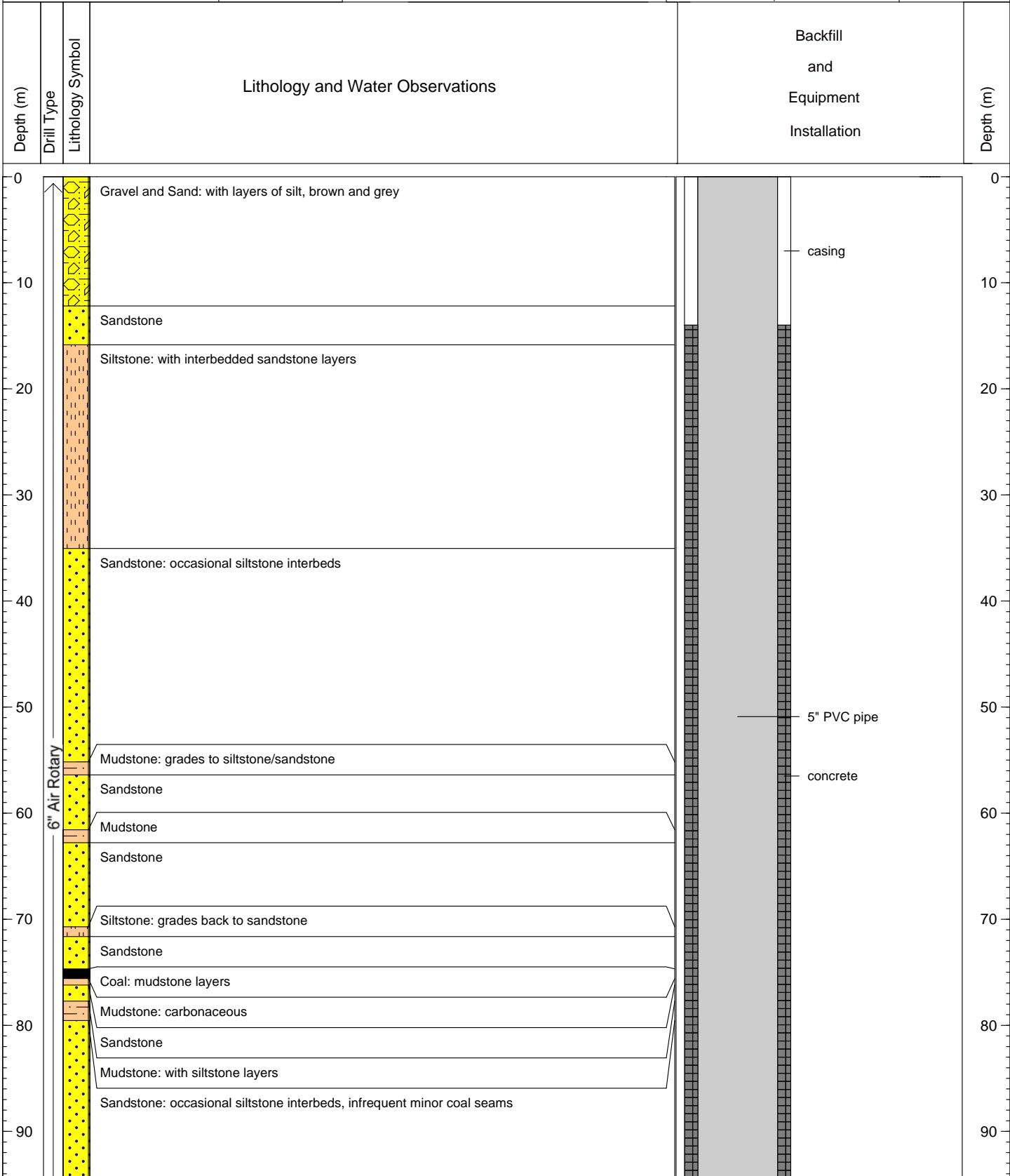
Drilled By Drillwell Enterprises		Cuttings/Core Description By SH		DH ID RAV-09-040	
Date Completed October 6, 2009		Date Logged October 3-6, 2009		Location UTM Zone 10 NAD 83	
Drilling Type Air Rotary	T.D. 122.2 m	Geophysical Logger NA		Easting (m)	Northing (m)
Hole Size 6"	Angle -90	Date Logged NA		364306	5484568
				Elevation (m)	128.5

Depth (m)	Drill Type	Lithology Symbol	Lithology and Water Observations	Backfill and Equipment Installation	Depth (m)
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Compliance Coal Corp.		
Raven Coal Project		
Hydrogeological Drilling Program, 2009		
February 23, 2012	Scale 1:500	Figure D-09-040

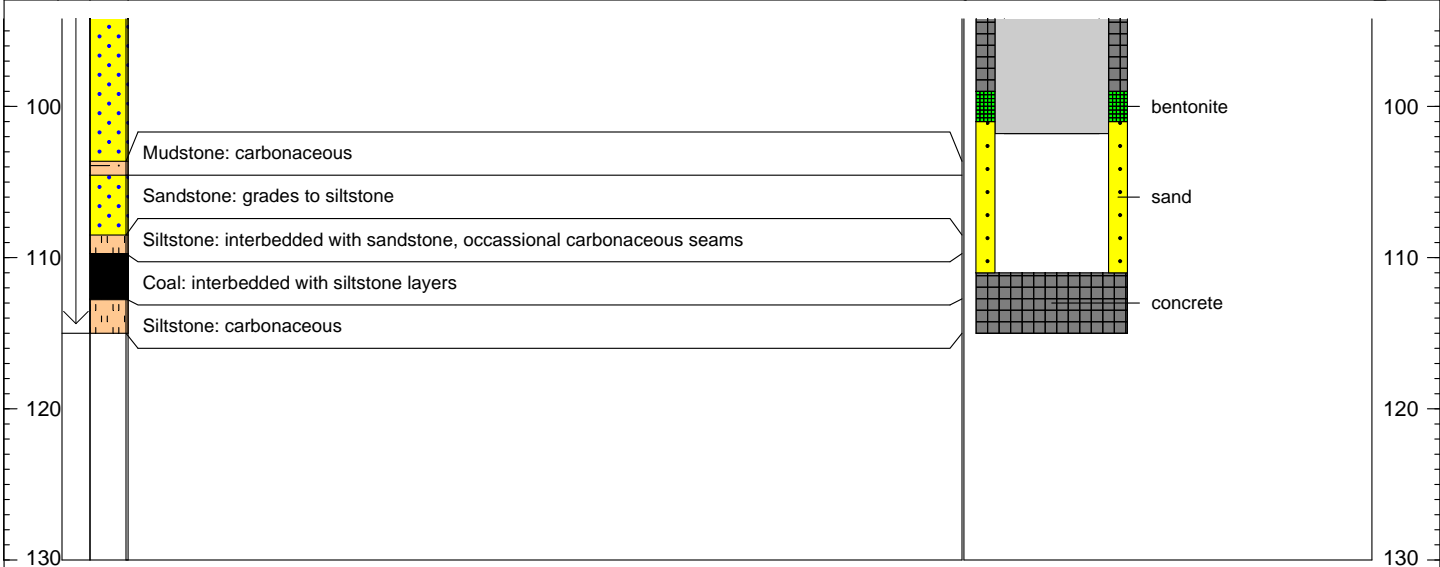
Drilled By Drillwell Enterprises		Cuttings/Core Description By SH		DH ID RAV-09-041	
Date Completed October 13, 2009		Date Logged October 11-13, 2009		Location UTM Zone 10 NAD 83	
Drilling Type Air Rotary	T.D. 115.0 m	Geophysical Logger NA		Easting (m)	Northing (m)
Hole Size 6"	Angle -90	Date Logged		364292	5484564
				128.5	



Compliance Coal Corp.		
Raven Coal Project		
Hydrogeological Drilling Program, 2009		
February 24, 2012	Scale 1:500	Figure D-09-041

Drilled By Drillwell Enterprises		Cuttings/Core Description By SH		DH ID RAV-09-041	
Date Completed October 13, 2009		Date Logged October 11-13, 2009		Location UTM Zone 10 NAD 83	
Drilling Type Air Rotary	T.D. 115.0 m	Geophysical Logger NA		Easting (m)	Northing (m)
Hole Size 6"	Angle -90	Date Logged		364292	5484564
				128.5	

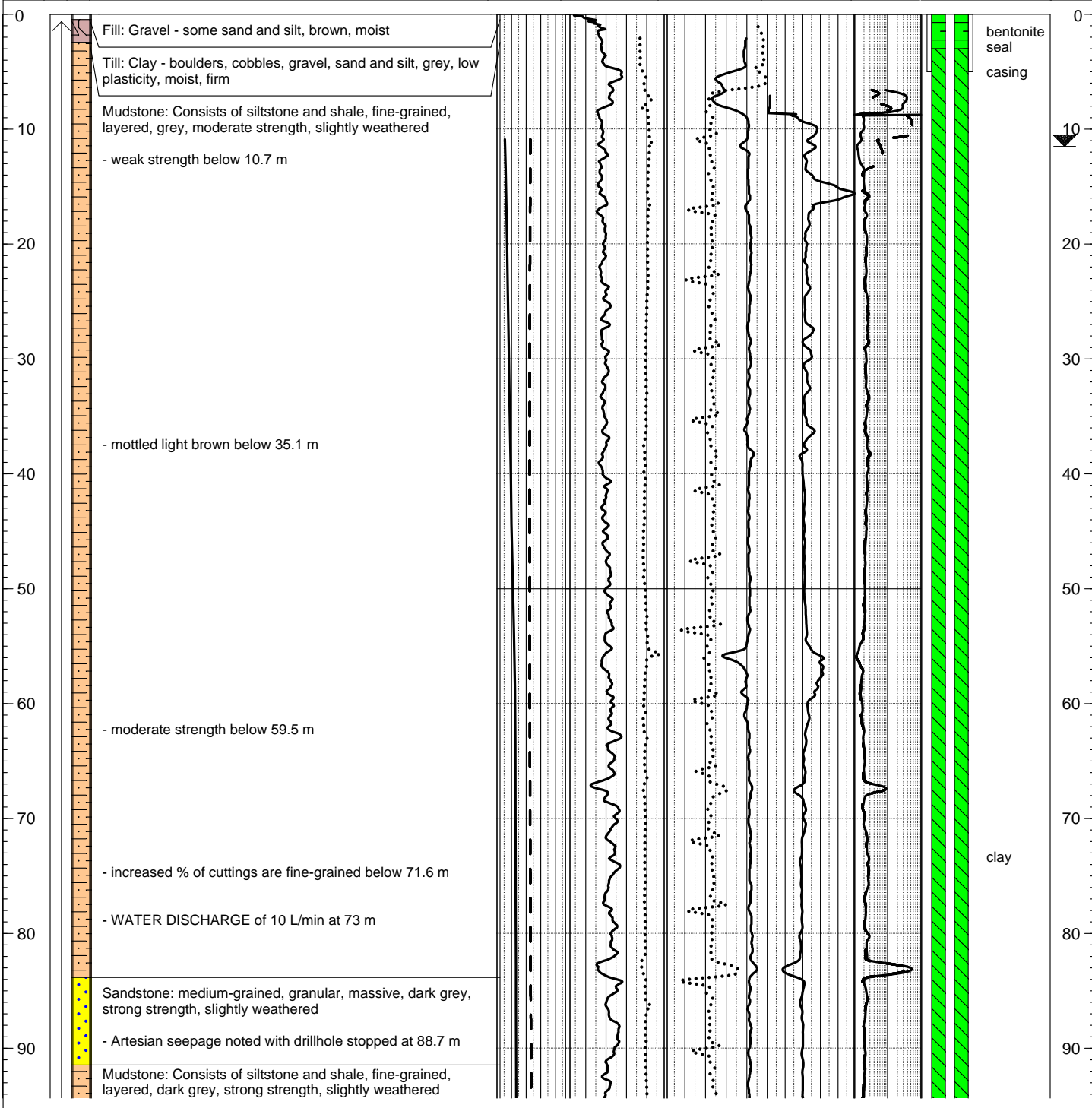
Depth (m)	Drill Type	Lithology Symbol	Lithology and Water Observations	Backfill and Equipment Installation	Depth (m)
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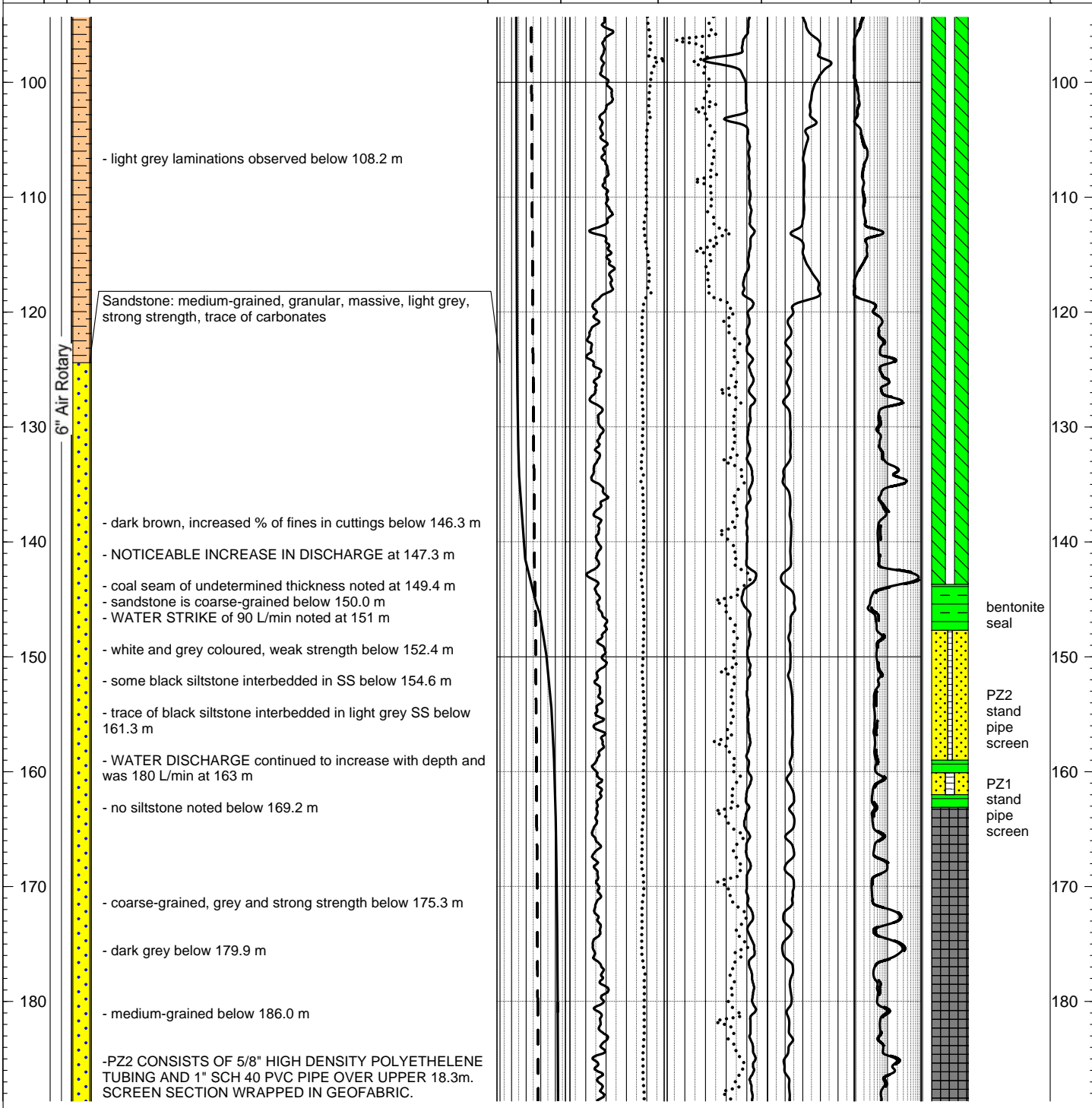
Compliance Coal Corp.		
Raven Coal Project		
Hydrogeological Drilling Program, 2009		
February 24, 2012	Scale 1:500	Figure D-09-041

Drilled By Drillwell Enterprises		Cuttings/Core Description By RM		DH ID RAV-09-042						
Date Completed March 4, 2010		Date Logged Feb 23 - 4 Mar, 2010		Location UTM Zone 10 NAD 83						
Drilling Type AR/Tri-Cone/PQ3		Geophysical Logger Weatherford		Easting (m)	Northing (m)					
Hole Size 6" Angle -90		Date Logged March 11, 2010		366386	5483953					
					Elevation (m)					
					75.8					
Depth (m)	Drill Type	Lithology Symbol	Lithology and Water Observations	EC	Gamma	Density	Sonic	Res-S	Backfill and Equipment Installation	Depth (m)
				0 mS 60	0 API 200	1 g/cc 3	100us/m600	10 1000		
				Temp	Caliper	Porosity		Res-D		
				0 C 20	0 mm 200	100 % 0		10 1000		
				-----	.....	.....		---		



Compliance Coal Corp.		
Raven Coal Project		
Hydrogeological Drilling Program, 2010		
March 4, 2012	Scale 1:430	Figure D-09-042

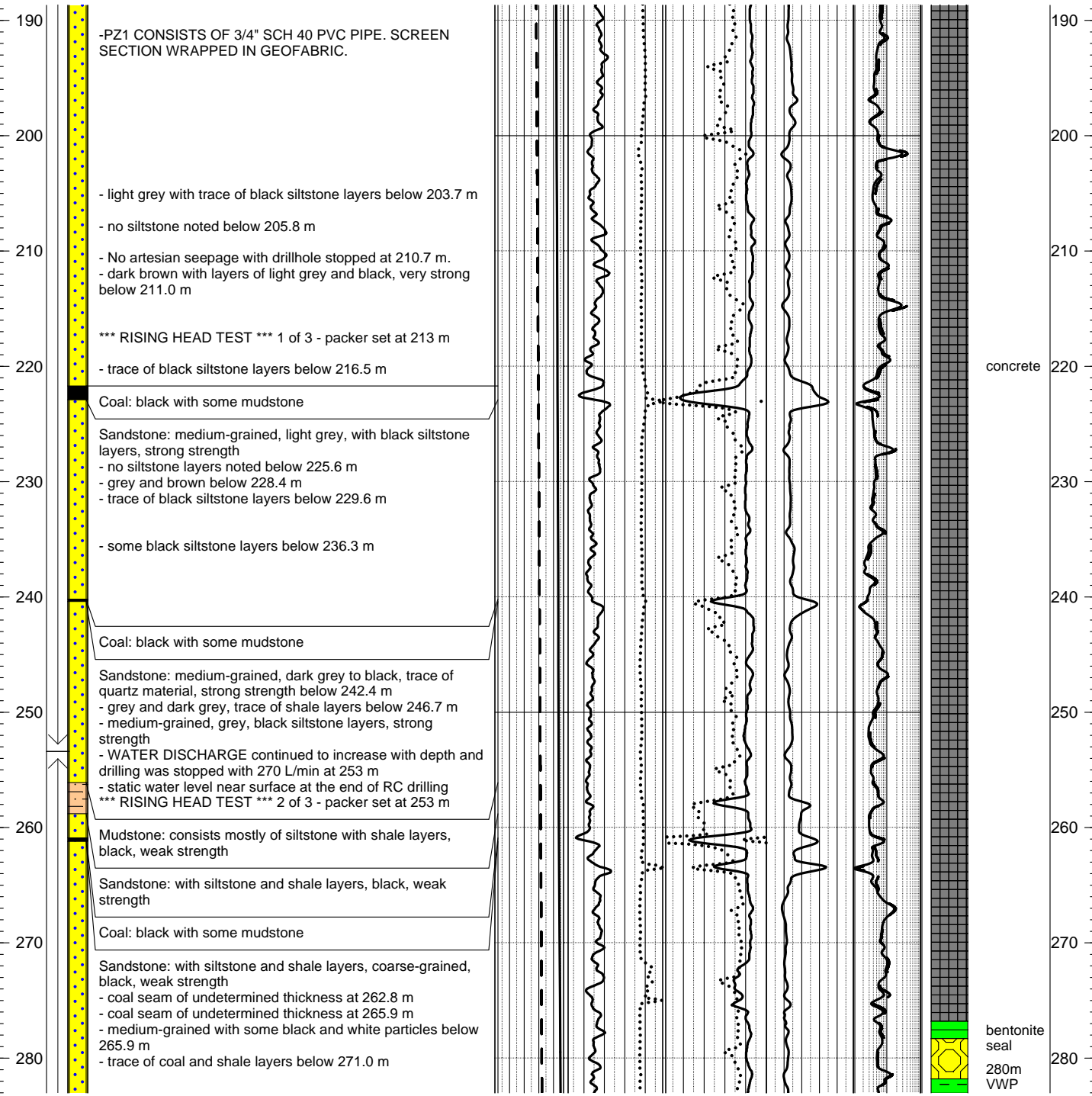
Drilled By Drillwell Enterprises		Cuttings/Core Description By RM		DH ID RAV-09-042						
Date Completed March 4, 2010		Date Logged Feb 23 - 4 Mar, 2010		Location UTM Zone 10 NAD 83						
Drilling Type AR/Tri-Cone/PQ3		Geophysical Logger Weatherford		Easting (m)	Northing (m)					
Hole Size 6"		Angle -90		Date Logged March 11, 2010						
				366386	5483953					
				75.8						
Depth (m)	Drill Type	Lithology Symbol	Lithology and Water Observations	EC	Gamma	Density	Sonic	Res-S	Backfill and Equipment Installation	Depth (m)
				0 mS 60	0 API 200	1 g/cc 3	100us/m600	10 1000		
				Temp	Caliper	Porosity		Res-D		
				0 C 20	0 mm 200	100 % 0		10 1000		
				---	.....	.....		---		



Compliance Coal Corp.		
Raven Coal Project		
Hydrogeological Drilling Program, 2010		
March 4, 2012	Scale 1:430	Figure D-09-042

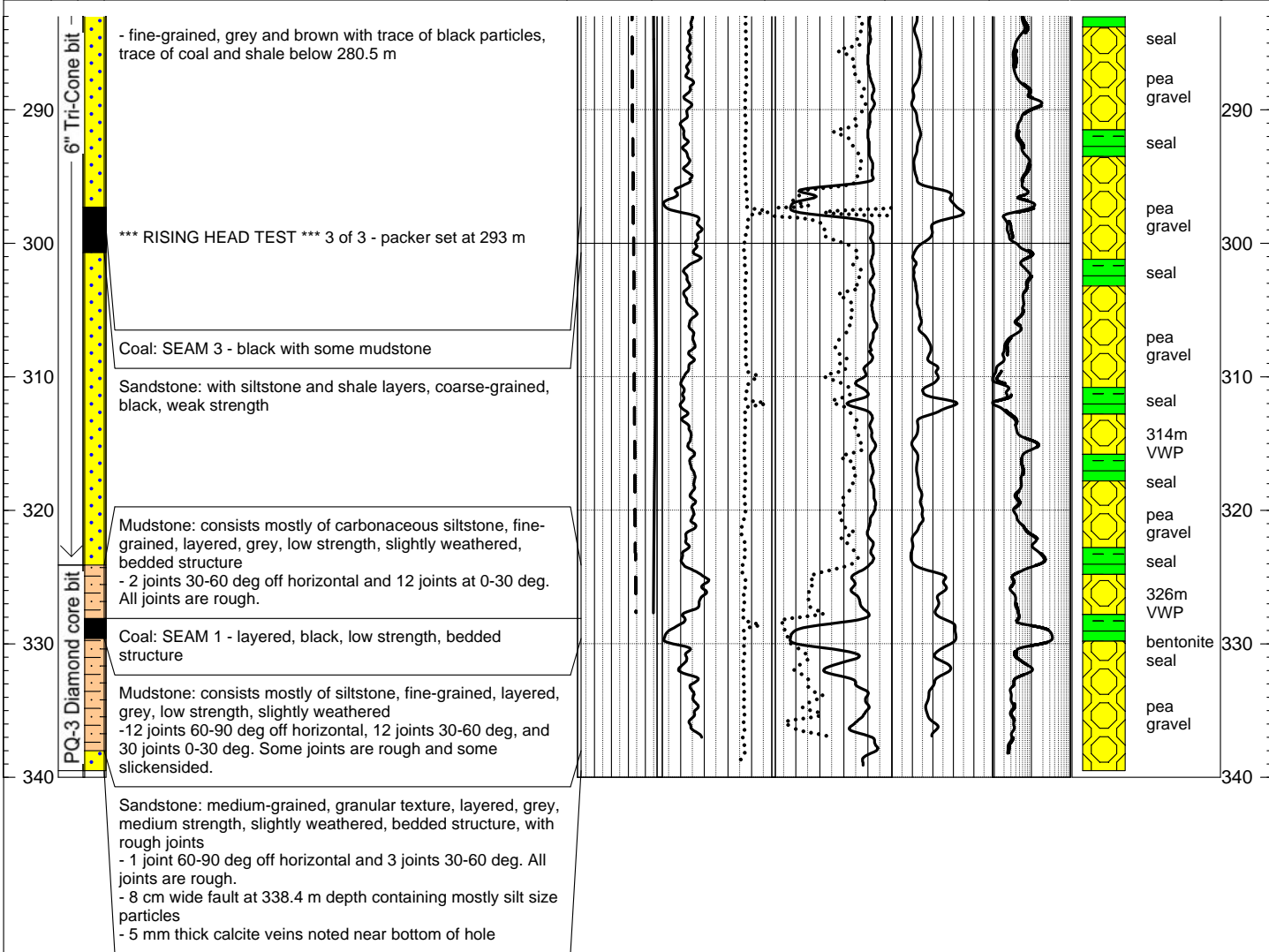


Drilled By Drillwell Enterprises		Cuttings/Core Description By RM		DH ID RAV-09-042						
Date Completed March 4, 2010		Date Logged Feb 23 - 4 Mar, 2010		Location UTM Zone 10 NAD 83						
Drilling Type AR/Tri-Cone/PQ3		Geophysical Logger Weatherford		Easting (m)	Northing (m)					
Hole Size 6" Angle -90		Date Logged March 11, 2010		366386	5483953					
					Elevation (m)					
					75.8					
Depth (m)	Drill Type	Lithology Symbol	Lithology and Water Observations	EC	Gamma	Density	Sonic	Res-S	Backfill and Equipment Installation	Depth (m)
				0 mS 60	0 API 200	1 g/cc 3	100us/m600	10 1000		
				Temp	Caliper	Porosity		Res-D		
				0 C 20	0 mm 200	100 % 0		10 1000		
				-----	.....	.....		---		



Compliance Coal Corp.		
Raven Coal Project		
Hydrogeological Drilling Program, 2010		
March 4, 2012	Scale 1:430	Figure D-09-042

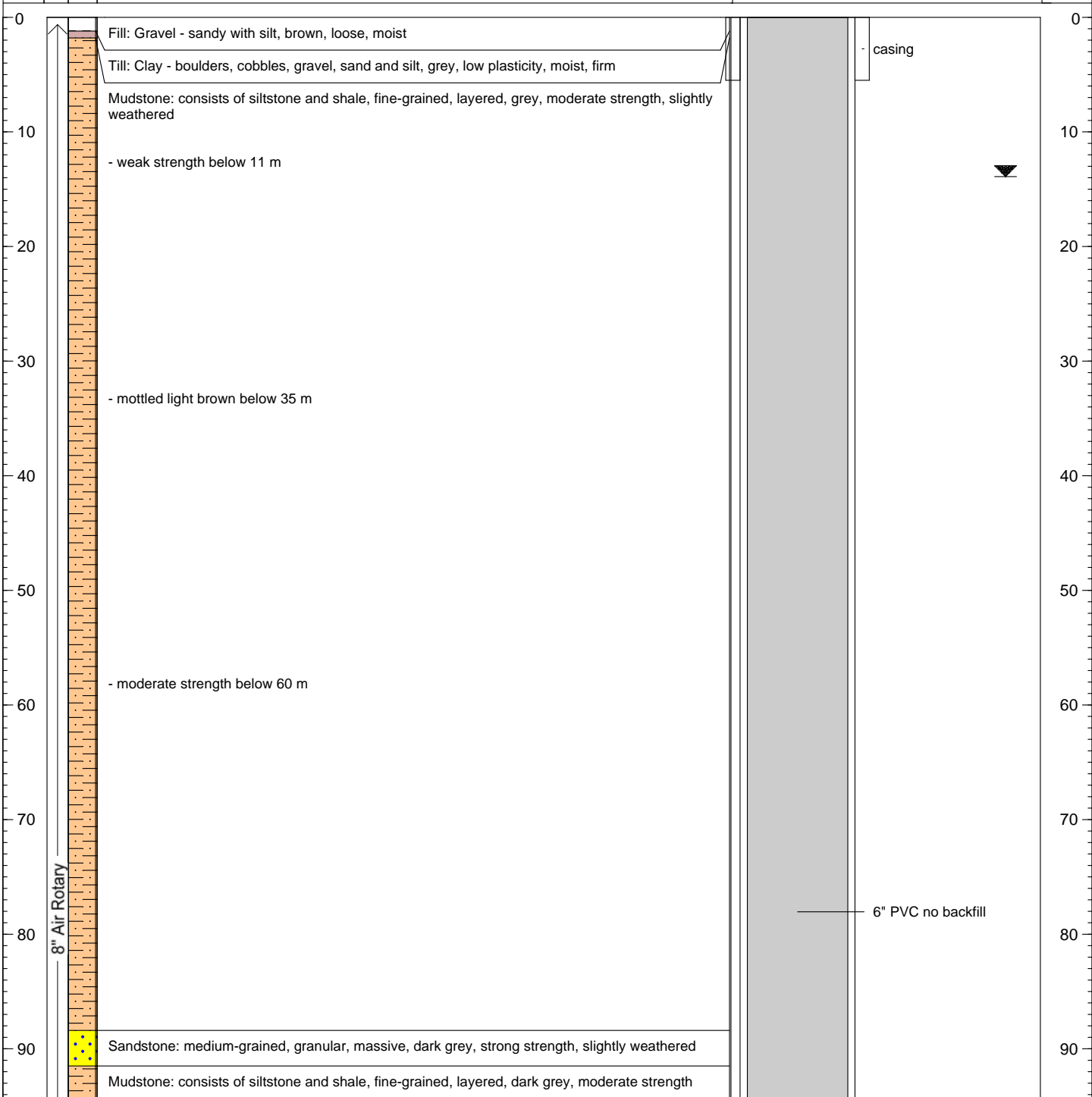
Drilled By Drillwell Enterprises		Cuttings/Core Description By RM		DH ID RAV-09-042						
Date Completed March 4, 2010		Date Logged Feb 23 - 4 Mar, 2010		Location UTM Zone 10 NAD 83						
Drilling Type AR/Tri-Cone/PQ3		Geophysical Logger Weatherford		Easting (m)	Northing (m)					
Hole Size 6"		Angle -90		Date Logged March 11, 2010	Elevation (m)					
				366386	5483953					
Depth (m)	Drill Type	Lithology Symbol	Lithology and Water Observations	EC	Gamma	Density	Sonic	Res-S	Backfill and Equipment Installation	Depth (m)
				0 mS 60	0 API 200	1 g/cc 3	100us/m600	10 1000		
				Temp	Caliper	Porosity		Res-D		
				0 C 20	0 mm 200	100 % 0	10 1000			
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Compliance Coal Corp.		
Raven Coal Project		
Hydrogeological Drilling Program, 2010		
March 4, 2012	Scale 1:430	Figure D-09-042

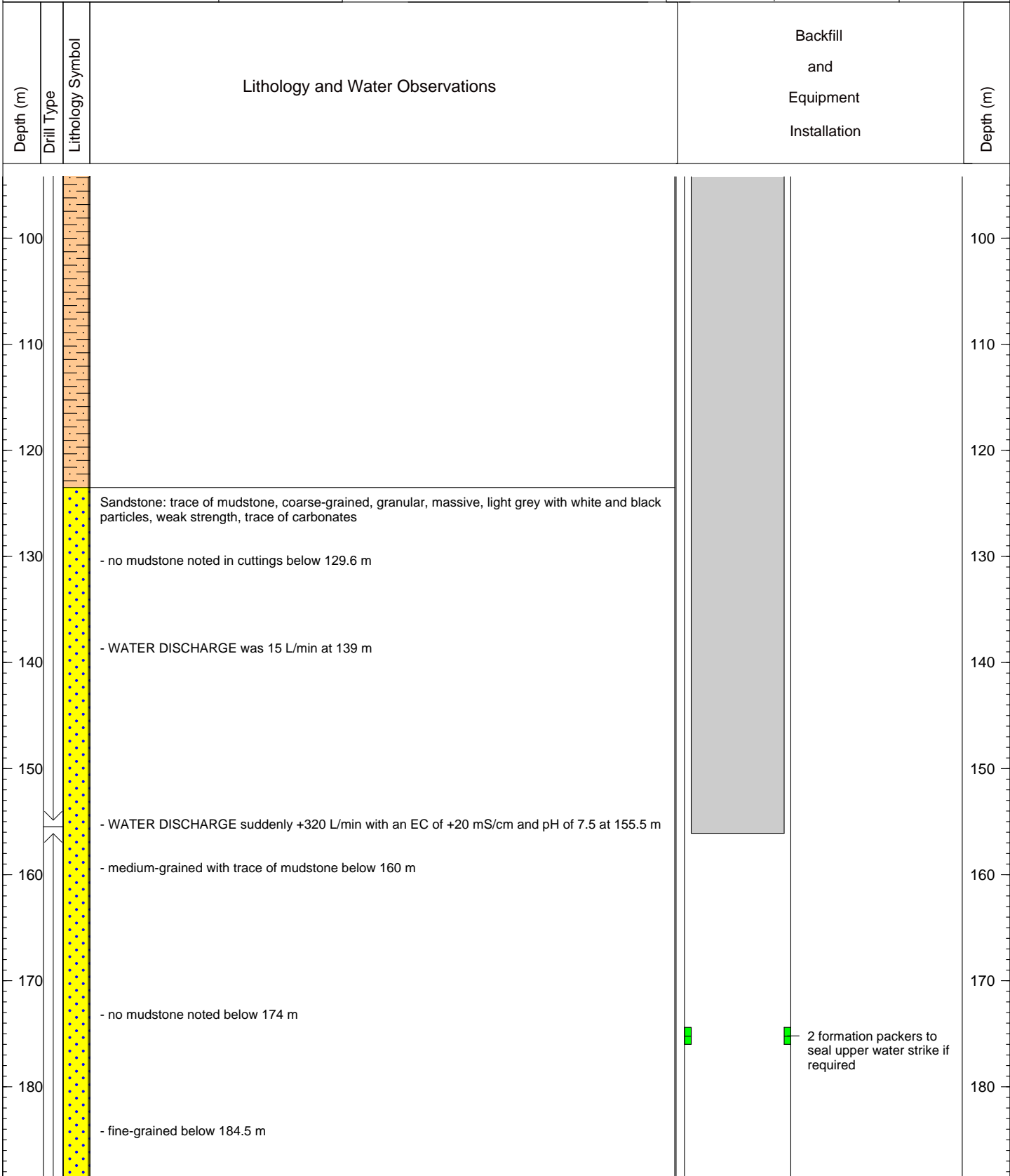
Drilled By Drillwell Enterprises		Cuttings/Core Description By RM		DH ID RAV-09-043	
Date Completed March 29, 2010		Date Logged March 15-29, 2009		Location UTM Zone 10 NAD 83	
Drilling Type AR/Tri-Cone	T.D. 297.5 m	Geophysical Logger NA		Easting (m)	Northing (m)
Hole Size 8"	Angle -90	Date Logged		366424	5483951
				74.9	

Depth (m)	Drill Type	Lithology Symbol	Lithology and Water Observations	Backfill and Equipment Installation	Depth (m)
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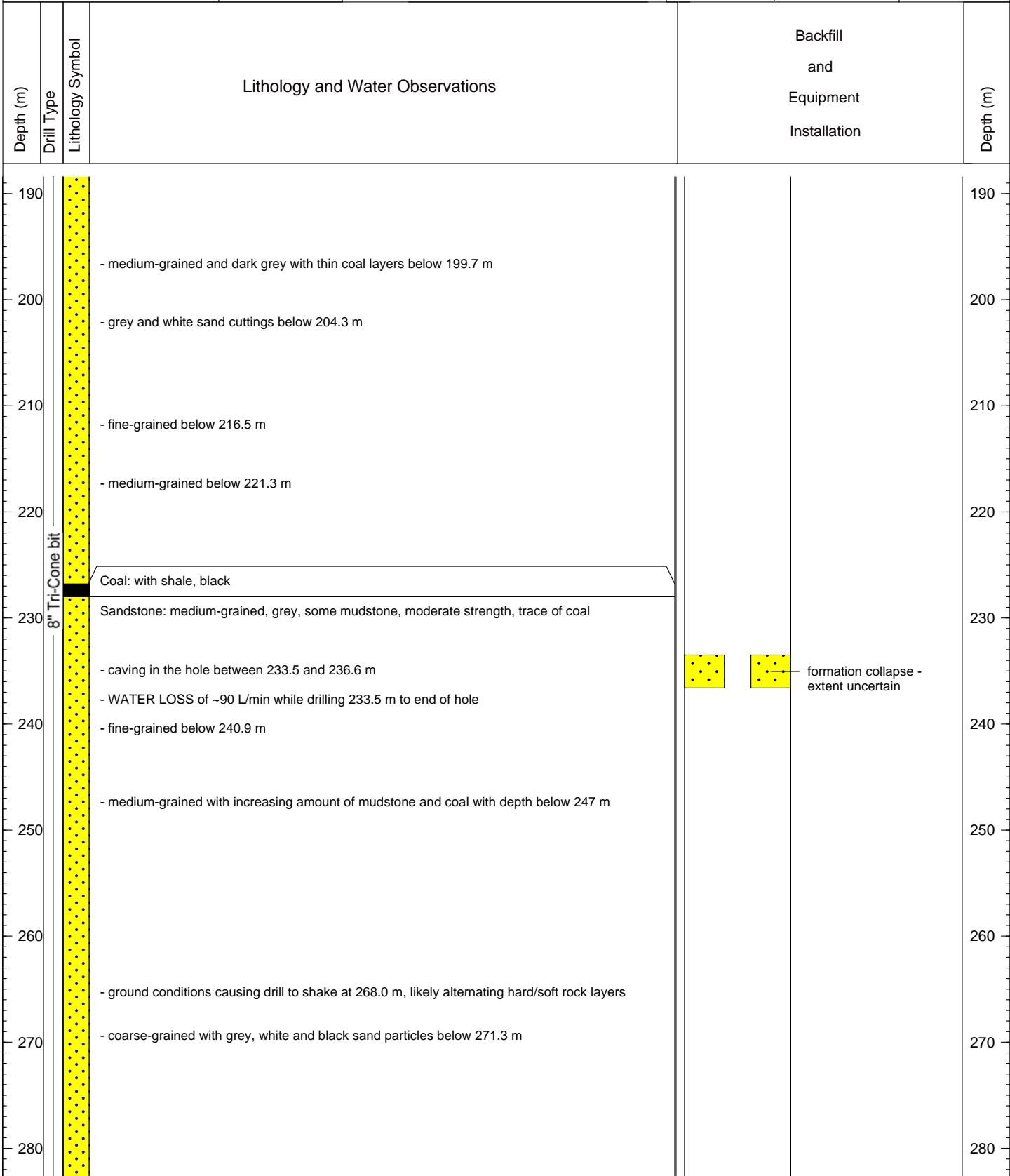
Compliance Coal Corp.		
Raven Coal Project		
Hydrogeological Drilling Program, 2009		
February 24, 2012	Scale 1:500	Figure D-09-043

Drilled By Drillwell Enterprises		Cuttings/Core Description By RM		DH ID RAV-09-043	
Date Completed March 29, 2010		Date Logged March 15-29, 2009		Location UTM Zone 10 NAD 83	
Drilling Type AR/Tri-Cone	T.D. 297.5 m	Geophysical Logger NA		Easting (m)	Northing (m)
Hole Size 8"	Angle -90	Date Logged		366424	5483951
			Elevation (m)		
			74.9		



Compliance Coal Corp.		
Raven Coal Project		
Hydrogeological Drilling Program, 2009		
February 24, 2012	Scale 1:500	Figure D-09-043

Drilled By Drillwell Enterprises		Cuttings/Core Description By RM		DH ID RAV-09-043	
Date Completed March 29, 2010		Date Logged March 15-29, 2009		Location UTM Zone 10 NAD 83	
Drilling Type AR/Tri-Cone	T.D. 297.5 m	Geophysical Logger NA		Easting (m)	Northing (m)
Hole Size 8"	Angle -90	Date Logged		366424	5483951
				Elevation (m)	74.9

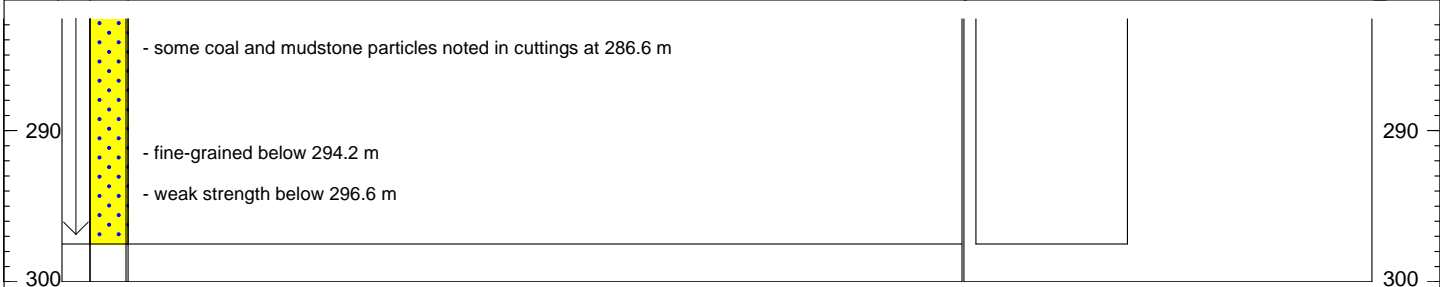


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Compliance Coal Corp.		
Raven Coal Project		
Hydrogeological Drilling Program, 2009		
February 24, 2012	Scale 1:500	Figure D-09-043

Drilled By Drillwell Enterprises		Cuttings/Core Description By RM		DH ID RAV-09-043	
Date Completed March 29, 2010		Date Logged March 15-29, 2009		Location UTM Zone 10 NAD 83	
Drilling Type AR/Tri-Cone	T.D. 297.5 m	Geophysical Logger NA		Easting (m)	Northing (m)
Hole Size 8"	Angle -90	Date Logged		366424	5483951
			Elevation (m)		
			74.9		

Depth (m)	Drill Type	Lithology Symbol	Lithology and Water Observations	Backfill and Equipment Installation	Depth (m)
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**Compliance Coal**  
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Compliance Coal Corp.		
Raven Coal Project		
Hydrogeological Drilling Program, 2009		
February 24, 2012	Scale 1:500	Figure D-09-043