



July 6, 2023

Mr. Jim Totten
General Manager
Lost Pines Groundwater Conservation District
PO Box 1027
Smithville, Texas 78957

Re: Additional information for Operating Permit Application
Aqua Water Supply Corporation – Watterson Well #1

Dear Mr. Totten:

At the request of Lost Pines Groundwater Conservation District, we would like to provide you with additional information regarding our Watterson Well # 1 so that you may continue to process the operating permit application. Additional documentation and clarification on the requested information items is detailed below.

1. Additional drilling information attached.
2. An additional map is attached.
3. Not applicable.
4. Completing a new pump test for this well was not feasible. Attached is a technical memorandum written by Aqua WSC Hydrogeologist explaining rationale for requested production capacity.
5. 3226 acre-ft/year or 1,051,200,000 gallons/year

If you have any questions, please do not hesitate to contact me.

Kind regards,

A handwritten signature in black ink, appearing to read "Emily Poston", with a long, sweeping underline.

Emily Poston, P.E.
Manager of Engineering



EASTEX ENVIRONMENTAL LABORATORY, INC.

P.O. Box 859
 Coldspring, Texas 77331
 (713) 350-4080 • (409) 653-3249

P.O. Box 631375
 Nacogdoches, Texas 75963-1375
 (409) 669-8879

1/2

WATER SCAN RESULT SHEET

FOR: RD Aggra Watkinson Rd
 DATE COLLECTED: 11/1/02
 SAMPLE LOCATION: _____

PARAMETER	RESULT	TECH	DATE	TIME
Chlorine Residual	0	CME	11/4	1550
pH	8.67	CME	11/4	1340
Alkalinity, Phenol.	0.0	↓	↓	↓
Alkalinity, Total	471	↓	↓	↓
Carbonate	0.0	↓	↓	↓
Bicarbonate	575	↓	↓	↓
Hardness, Total	40	CME	11/5	0810
Hardness, Calcium	21	↓	↓	↓
Hardness, Magnesium	19	↓	↓	↓
Calcium	8.4	↓	↓	↓
Magnesium	4.62	↓	↓	↓
Specific Cond.	2090	CME	11/4	1555
Residue, Total	1400	RWC	11/6	1630
Residue, Suspended	15	RWC	11/6	1520
Residue, Dissolved	1385	RWC	11/6	1630
Chloride	203	CME	11/5	1000
Fluoride	0.9	CME	11/5	1106
Iron	0.211	KMP	11/10	1300
Manganese	20.010	KMP	11/10	1400
Nitrates	1.1	PDH	11/6	1600
Sulfate	159.5	WKG	11/11	0900
Sodium	494	TJM	11/25	1625



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(409) 569-8879

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WATER SCAN METALS RESULT SHEET

FOR: _____
DATE COLLECTED: 11/1/00
SAMPLE LOCATION: _____

Please note
changes

PARAMETER	RESULT	TECH	DATE	TIME	METHOD
METALS					
Aluminum <i>total</i>	<u>0.229</u>	Kmp	11/7	0951	3111D
Arsenic	<u><0.005</u> <u>25.0</u>	Kmp	11/14	1612	3113B
Barium	0.093	Kmp	11/9	1152	3111D
Beryllium	<0.001	Kmp	11/13	0807	3111D
Cadmium	<0.001	Kmp	11/13	0807	3111B
Chromium	<0.004	Kmp	11/9	1152	3111B
Copper	<0.005	Kmp	11/11	0820	3111D
Lead	<0.005	Kmp	11/12	0825	3111B
Nickel	<0.010	Kmp	11/9	1202	3111B
Selenium	<3.005	Kmp	11/14	1612	3113B
Silver	<0.0002	Kmp	11/12	0825	3111B
Zinc	0.027	Kmp	11/11	1110	3111B
Dissolved Iron	0.081	Kmp	11/10	1300	3111B
Potassium	3.63	Kmp	11/12	1700	3111B
SPECIAL MISC. A / Diss	<u>0.0196</u>	Kmp	11/7	0951	
Color	<10	J&H	11/5	1030	2120C
Turbidity	8.18	CM	11/5	1523	2130B
_____					_____
_____					_____
Nitrites	0.7	PDH	11/6	1600	4500NO.2B



2/2

EASTEX ENVIRONMENTAL LABORATORY, INC.

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Coldspring, Texas 77331
(713) 350-4080 • (409) 653-3249

P.O. Box 631376
Nacogdoches, Texas 75963-1376
(409) 569-8879

WATER SCAN METALS RESULT SHEET

FOR: _____
DATE COLLECTED: _____
SAMPLE LOCATION: _____

PARAMETER	RESULT	TECH	DATE	TIME	METHOD
METALS					
Aluminum	.0196	KMP	11/7	0951	31110
Arsenic	20.005 2.50	KMP	11/12	1612	31130
Barium	0.093	KMP	11/9	1152	31110
Beryllium	<0.001	KMP	11/13	0802	31110
Cadmium	<0.001	KMP	11/13	0802	31110
Chromium	<0.004	KMP	11/9	1152	31110
Copper	<0.005	KMP	11/11	0822	31110
Lead	<0.005	KMP	11/12	0825	31110
Nickel	<0.010	KMP	11/9	1202	31110
Selenium	<0.005	KMP	11/14	1612	31130
Silver	<0.0002	KMP	11/12	0825	31110
Zinc	0.027	KMP	11/11	1112	31110
Dissolved Iron	0.081	KMP	11/10	1300	31110
Potassium	3.63	KMP	11/12	1700	31110
SPECIAL MISC.					
Color	<10	J&H	11/5	1030	21500
Turbidity	8.18	CM	11/5	1525	21500
_____					_____
Nitrites	0.7	PDH	11/6	1600	450040.10

Houston Well Screen
 11939 Aldine-Westfield Rd.
 Houston, Texas 77093
 800-237-7593
 FAX 281-442-0503

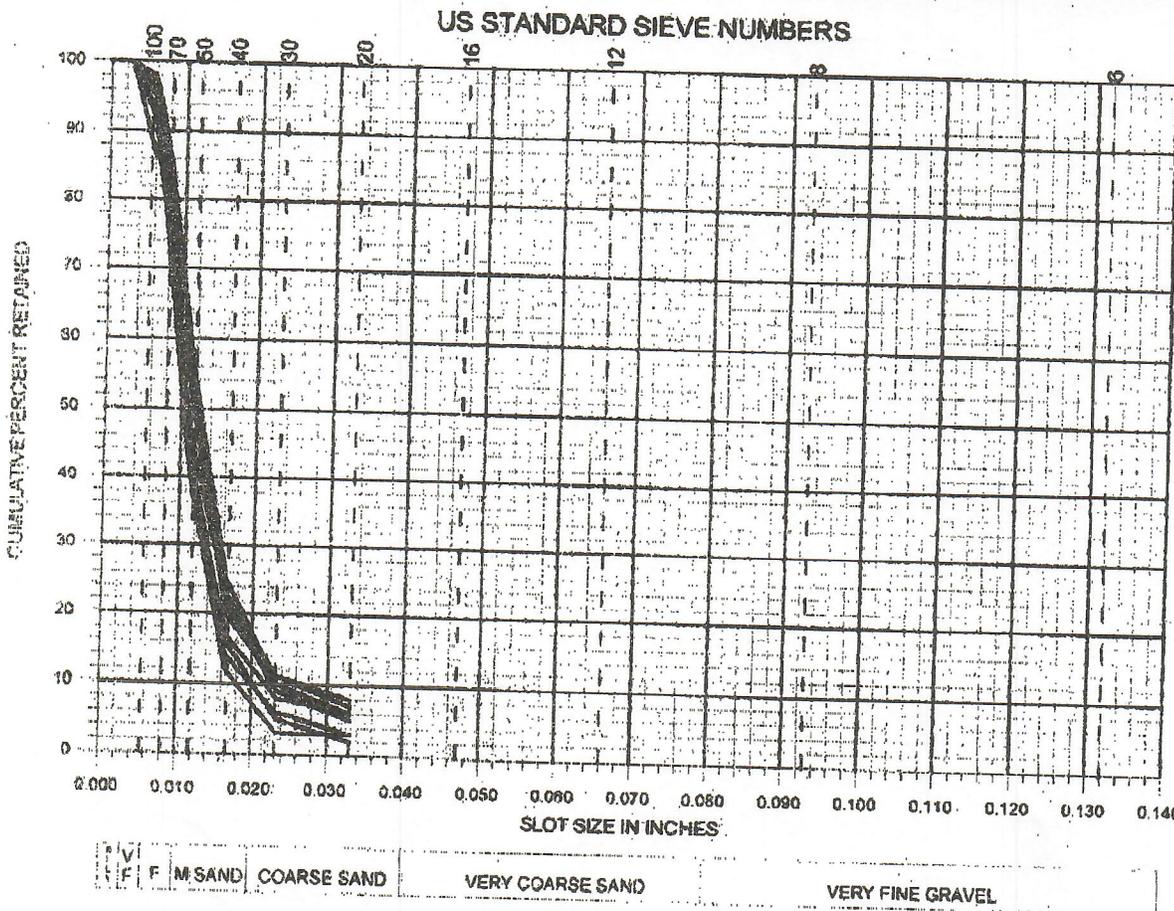


SAND ANALYSIS PLOT

DATE SAMPLE ANALYZED 09/25/02
 JOB NAME WATERSON RANCH WELL #1
 CITY _____ STATE _____
 CONTRACTOR RUSSELL DRILLING
 SAMPLE NO. 790' - 780' Composite Graph
 SCREEN SLOT SIZE IF GRAVEL PACKED _____
 SCREEN SLOT SIZE IF NATURAL DEV. _____
 GRAVEL PACK RECOMMENDED _____

US SIEVE NUMBER	SLOT SIZE IN INCHES	CUMULATIVE PERCENT RETAINED
#20	0.0331	Composite Graph Only
#30	0.0234	
#40	0.0165	
#50	0.0117	
#60	0.0098	
#70	0.0083	
#80	0.0070	
#100	0.0059	
#200	0.0029	
Pan	0.0001	

SO MANY CONSIDERATIONS ENTER INTO THE MAKING OF A GOOD WELL THAT, WHILE WE BELIEVE SLOT SIZES FURNISHED OR RECOMMENDED FROM SUBMITTED SAND SAMPLES ARE CORRECT, WE ASSUME NO RESPONSIBILITY FOR THE SUCCESSFUL OPERATION OF ANY WELL



Houston Well Screen
 11939 Aldine-Westfield Rd.
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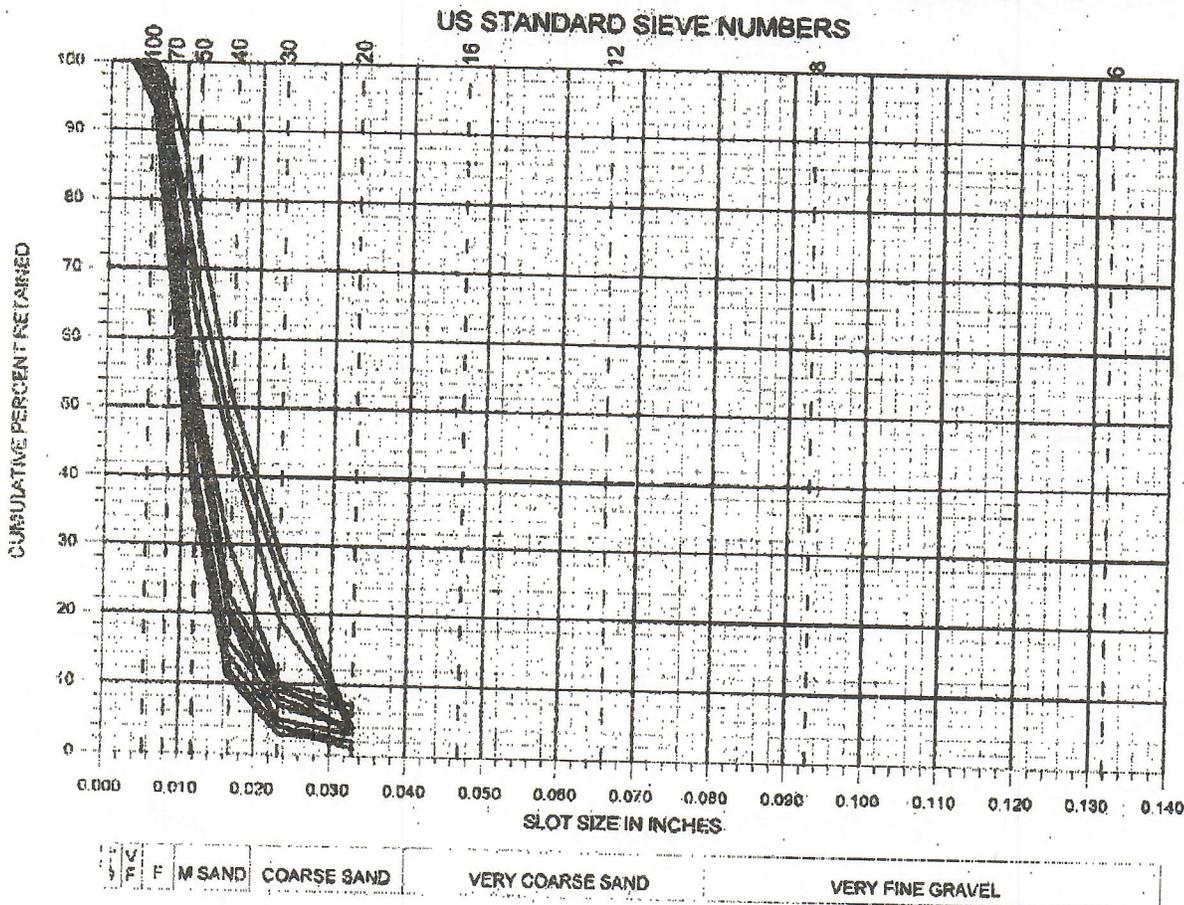


SAND ANALYSIS PLOT

DATE SAMPLE ANALYZED 09/25/02
 JOB NAME WATERSON RANCH WELL #1
 CITY _____ STATE _____
 CONTRACTOR RUSSELL DRILLING
 SAMPLE NO. 670' - 790' Composite Graph
 SCREEN SLOT SIZE IF GRAVEL PACKED _____
 SCREEN SLOT SIZE IF NATURAL DEV. _____
 GRAVEL PACK RECOMMENDED _____

US SIEVE NUMBER	SLOT SIZE IN INCHES	CUMULATIVE PERCENT RETAINED
#20	0.0331	Composite Graph Only
#30	0.0234	
#40	0.0165	
#50	0.0117	
#60	0.0098	
#70	0.0083	
#80	0.0070	
#100	0.0059	
#200	0.0029	
Pan	0.0001	

SO MANY CONSIDERATIONS ENTER INTO THE MAKING OF A GOOD WELL THAT, WHILE WE BELIEVE SLOT SIZES FURNISHED OR RECOMMENDED FROM SUBMITTED SAND SAMPLES ARE CORRECT, WE ASSUME NO RESPONSIBILITY FOR THE SUCCESSFUL OPERATION OF ANY WELL.



HOUSTON WELL SCREEN COMPANY
SAND ANALYSIS II

Date: 9/25/02

For: RUSSELL DRILLING
Location: WATERSON RANCH - WELL #1

DEPTH FEET	670	680	690	700	710	710	720	720	730	730	740	740	750	750	760	760	770	770	780	780
0.0331	1	3	4	4	4	3	3	3	2	2	2	2	4	4	6	6	4	4	7	7
0.0234	4	25	28	19	10	5	4	3	4	3	7	7	9	9	9	9	8	8	10	10
0.0165	20	47	52	44	30	14	12	11	16	16	16	11	16	16	21	21	26	26	23	23
0.0117	51	69	77	63	53	39	38	37	42	42	42	37	42	42	48	48	49	49	53	53
0.0098	68	81	88	79	68	56	53	55	61	61	61	55	61	61	65	65	67	67	71	71
0.0083	81	88	94	85	78	71	68	71	74	74	74	71	74	74	78	78	81	81	82	82
0.0070	91	96	98	92	88	84	81	83	86	86	86	83	86	86	89	89	91	91	90	90
0.0059	97	99	100	98	95	93	94	93	95	95	95	93	95	95	96	96	97	97	96	96
0.0029	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
PAN	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100

Values are in cumulative grams retained.

Y:\excels\srdrn.xls

HOUSTON WELL SCREEN COMPANY
SAND ANALYSIS II

For: RUSSELL DRILLING
Location: WATERSON RANCH - WELL #1

Date: 9/25/02

DEPTH FEET	670	680	690	700	710	710	720	730	740	740	750	760	760	770	780	780
0.0331	1	3	4	4	3	3	3	2	2	4	4	6	4	4	7	7
0.0234	4	25	28	19	10	5	4	3	7	7	9	9	8	10	10	10
0.0165	20	47	52	44	30	14	12	11	16	16	21	21	26	26	23	23
0.0117	51	69	77	63	53	39	38	37	42	42	48	48	49	53	53	53
0.0098	68	81	88	79	68	56	53	55	61	61	65	65	67	71	71	71
0.0083	81	88	94	85	78	71	68	71	74	74	78	78	81	81	82	82
0.0070	91	96	98	92	88	84	81	83	86	86	89	89	91	91	90	90
0.0059	97	99	100	98	95	93	94	93	95	95	96	96	97	97	96	96
0.0029	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
PAN	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100

*Values are in cumulative grams retained.

Y:\excel\sandane.xls

HOUSTON WELL SCREEN
SAND ANALYSIS II

For: RUSSELL DRILLING

Date: 9/25/02

Location: WATERSON RANCH - WELL #1

DEPTH FEET	790	800	810	820	830	840	850	860	870	880	890		
GAUGE													
0.0331	5	6	6	8	5	7	6	3	3	3	2		
0.0234	9	10	9	11	10	11	8	3	6	5			
0.0165	22	25	21	23	20	22	17	12	14	16			
0.0117	54	56	50	52	51	45	41	38	41	42			
0.0098	68	72	65	69	63	59	57	55	56	59			
0.0083	82	85	80	82	74	72	70	71	72	73			
0.0070	91	93	90	91	89	83	85	84	84	85			
0.0059	97	98	96	97	95	92	87	93	92	93			
0.0029	100	100	100	100	100	100	100	100	100	100			
PAN	100	100	100	100	100	100	100	100	100	100			

y:\excel\sandana.xls
Values are in cumulative grams retained.

HOUSTON WELL SCREEN COMPANY
SAND ANALYSIS II

For: RUSSELL DRILLING

Date: 9/25/02

Location: WATERSON RANCH - WELL #1

DEPTH FEET	670	680	690	700	710	710	720	720	730	730	740	740	750	750	760	760	770	770	780	780	
GAUGE																					
0.0331	1	3	4	4	4	3	3	3	2	2	2	2	4	4	6	6	4	4	7	7	
0.0234	4	25	28	19	10	5	4	4	3	3	7	9	8	10							
0.0165	20	47	52	44	30	14	12	11	16	21	26	23									
0.0117	51	69	77	63	53	39	38	37	42	48	49	53									
0.0098	68	81	88	79	68	56	53	55	61	65	67	71									
0.0083	81	88	94	85	78	71	68	71	74	78	81	82									
0.0070	91	96	98	92	88	84	81	83	86	89	91	90									
0.0059	97	99	100	98	95	93	94	93	95	96	97	96									
0.0029	100	100	100	100	100	100	100	100	100	100	100	100									
PAN	100	100	100	100	100	100	100	100	100	100	100	100									

**Values are in cumulative grams retained.

HOUSTON WELL SCREEN COMPANY
SAND ANALYSIS II

For: RUSSELL DRILLING

Date: 9/25/02

Location: WATERSON RANCH - WELL #1

DEPTH FEET	670	680	690	700	710	720	730	740	750	760	770	780	790
GAUGE													
0.0331	1	3	4	4	3	3	2	2	4	6	4	7	
0.0234	4	25	28	19	10	5	4	3	7	9	8	10	
0.0165	20	47	52	44	30	14	12	11	16	21	26	23	
0.0117	51	69	77	63	53	39	38	37	42	48	49	53	
0.0098	68	81	88	79	68	56	53	55	61	65	67	71	
0.0083	81	88	94	85	78	71	68	71	74	78	81	82	
0.0070	91	96	98	92	88	84	81	83	86	89	91	90	
0.0059	97	99	100	98	95	93	94	93	95	96	97	96	
0.0029	100	100	100	100	100	100	100	100	100	100	100	100	
PAN	100	100	100	100	100	100	100	100	100	100	100	100	100

**Values are in cumulative grams retained.

**HOUSTON WELL SCREEN
SAND ANALYSIS II**

For: RUSSELL DRILLING

Date: 9/25/02

Location: WATERSON RANCH - WELL #1

DEPTH FEET	790	800	810	820	830	840	850	860	870	880	890		
GAUGE													
0.0331	5	6	6	8	5	7	6	3	3	2			
0.0234	9	10	9	11	10	11	8	3	6	5			
0.0165	22	25	21	23	20	22	17	12	14	16			
0.0117	54	56	50	52	51	45	41	38	41	42			
0.0098	68	72	65	69	63	59	57	55	56	59			
0.0083	82	85	80	82	74	72	70	71	72	73			
0.0070	91	93	90	91	89	83	85	84	84	85			
0.0059	97	98	96	97	95	92	87	93	92	93			
0.0029	100	100	100	100	100	100	100	100	100	100			
PAN	100	100	100	100	100	100	100	100	100	100			

y:\excel\sandana.xls
Values are in cumulative grams retained.

**HOUSTON WELL SCREEN
SAND ANALYSIS II**

For: RUSSELL DRILLING

Date: 9/25/02

Location: WATERSON RANCH - WELL #1

DEPTH FEET	790	800	810	820	830	840	850	860	870	880	890		
GAUGE													
0.0331	5	6	6	8	5	7	6	3	3	3	2		
0.0234	9	10	9	11	10	11	8	3	6	5			
0.0165	22	25	21	23	20	22	17	12	14	16			
0.0117	54	56	50	52	51	45	41	38	41	42			
0.0098	68	72	65	69	63	59	57	55	56	59			
0.0083	82	85	80	82	74	72	70	71	72	73			
0.0070	91	93	90	91	89	83	85	84	84	85			
0.0059	97	98	96	97	95	92	87	93	92	93			
0.0029	100	100	100	100	100	100	100	100	100	100			
PAN	100	100	100	100	100	100	100	100	100	100			

y:\excel\sandana.xls Values are in cumulative grams retained.

**HOUSTON WELL SCREEN COMPANY
SAND ANALYSIS II**

For: RUSSELL DRILLING

Date: 9/25/02

Location: WATERSON RANCH - WELL #1

DEPTH FEET	670	680	690	700	700	710	710	720	720	730	730	740	740	750	750	760	760	770	770	780	780	
GAUGE																						
0.0331	1	3	4	4	4	3	3	3	2	2	2	2	2	4	4	6	6	4	4	7	7	
0.0234	4	25	28	19	10	5	4	3	7	9	8	10	10	16	21	26	26	26	26	26	23	
0.0165	20	47	52	44	30	14	12	11	11	16	16	16	16	16	21	26	26	26	26	26	23	
0.0117	51	69	77	63	53	39	38	37	42	48	48	49	49	42	48	49	49	49	49	49	53	
0.0098	68	81	88	79	68	56	53	55	61	65	65	67	67	61	65	67	67	67	67	67	71	
0.0083	81	88	94	85	78	71	68	71	74	78	78	81	81	74	78	81	81	81	81	81	82	
0.0070	91	96	98	92	88	84	81	83	86	89	89	91	91	86	89	91	91	91	91	91	90	
0.0059	97	99	100	98	95	93	94	93	95	96	96	97	97	95	96	97	97	97	97	97	96	
0.0029	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
PAN	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	

**Values are in cumulative grams retained.

Tepee Logging Inc.

ELECTRIC LOG

CO. Aqua WSC		COMPANY Aqua WSC	
WELL Watterson 1 test		WELL Watterson 1 test	
FLD		FIELD	
CTY Bastrop		COUNTY Bastrop	
STATE Texas		STATE Texas	
FILING NO		OTHER SERVICES	
PERMANENT DATUM		SEC	TWP
LOG MEAS. FROM 9 1.		ELEVATION 490	
DRILLING MEASURED FROM 9.1.		K. B.	
DATE 9-23-02		D. F.	
RUN NO. DIV 1		G. L.	
TYPE LOG sp/res/gr			
DEPTH-DRILLER 900			
DEPTH-LOGGER 900			
BITM LOGGED INTERVAL			
TOP LOGGED INTERVAL			
TYPE FLUID IN HOLE gel			
SALINITY			
DENSITY 9.2			
LEVEL full			
MAX. REC. TEMP. DEG F.			
OPERATING RIG TIME 1 1/2 hr			
RECORDED BY T. Russell			
WITNESSED BY L. Barrett			
BOREHOLE RECORD			
NO.	BIT	FROM	TO
1	7 7/8	0	900
CASING RECORD			
		SIZE	WGT.
		FROM	TO

EQUIPMENT DATA			
SP		RESISTIVITY	
RUN NO.		RUN NO.	
TOOL MODEL NO.		LOG TYPE	
DIAMETER		TOOL MODEL NO.	
DETECTOR MODEL NO.		DIAMETER	
TYPE		DETECTOR MODEL NO.	
LENGTH		TYPE	
DISTANCE TO N. SOURCE		LENGTH	
		SOURCE MODEL NO.	
		SERIAL NO.	
GENERAL		SPACING	
HOIST TRUCK NO.			

INSTRUMENT TRUCK NO.		TYPE	
TOOL SERIAL NO.		STRENGTH	

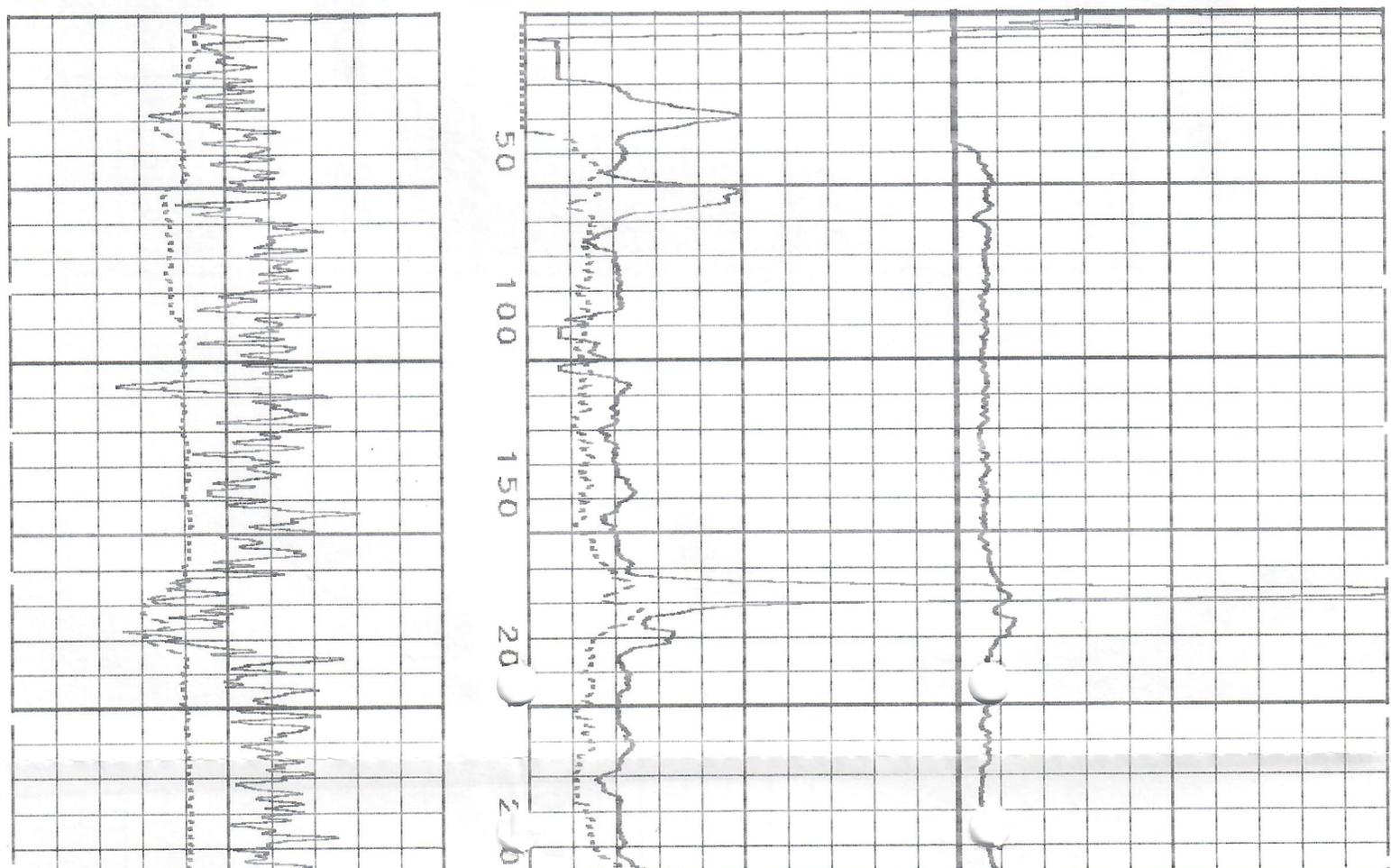
LOGGING DATA

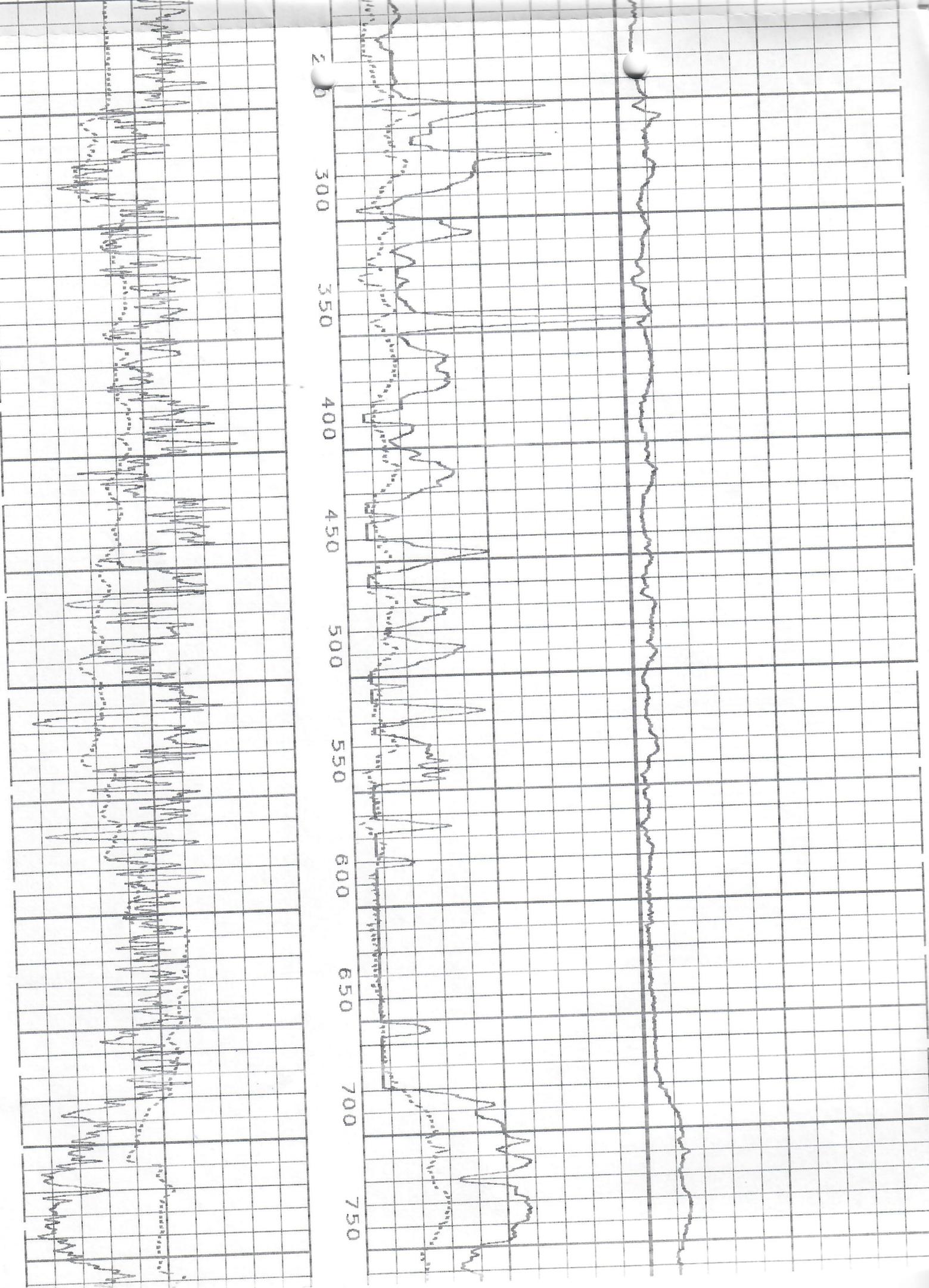
RUN NO.	GENERAL		SP				RESISTIVITY				
	FROM	TO	SPEED FT/MIN	T. C. SEC.	SENS. SETTINGS	ZERO L OR R	API SP UNITS PER LOG DIV	T. C. SEC.	SENS. SETTINGS	ZERO L OR R	API RES UNITS PER LOG DIV

REFERENCE LITERATURE : test hole

REMARKS N 30-00.486 W97-21.514
grid 58-67-7

CHART SCALING			CHART SCALING		
0.00	SP	100.00	0.00	SN	100.00
MVS			OHMS/M		
0.00	GR	100.00	0.00	LN	100.00
CPS			OHMS/M		
			0.00	LN2	100.00
			OHMS/M		
STOP : 2.96		DEPTHS	Mon Sep 23 18:12:49 2002		LOG UP





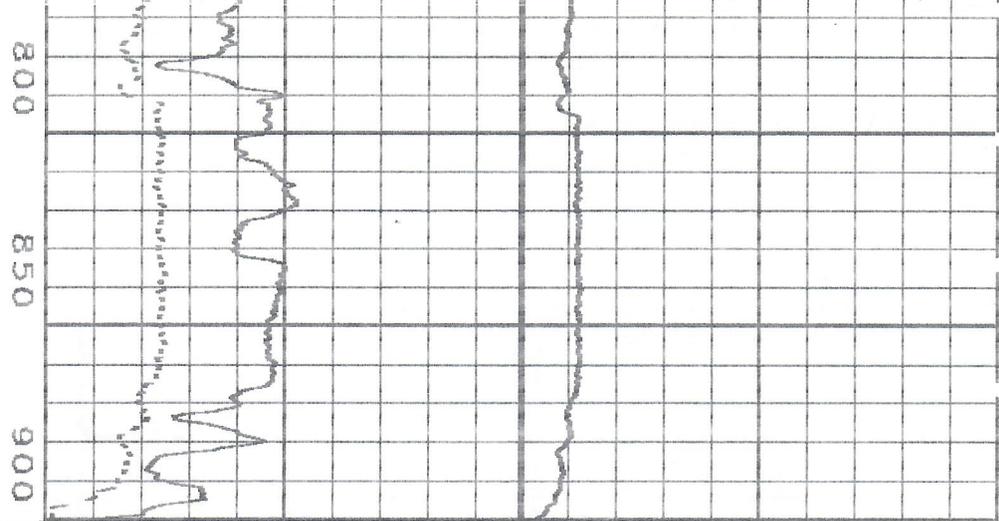
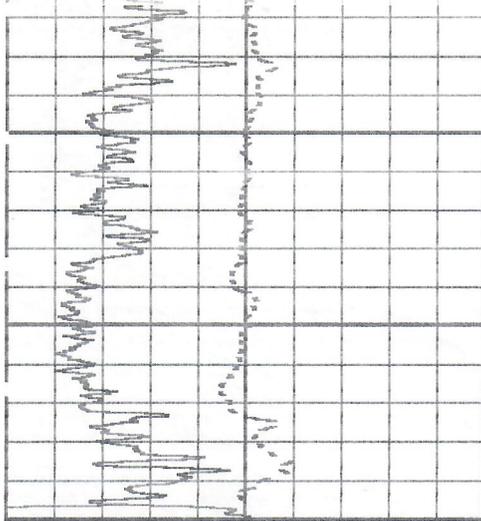


CHART SCALING		
0.00	SP	100.00

	MVS	
0.00	GR	100.00

	CPS	

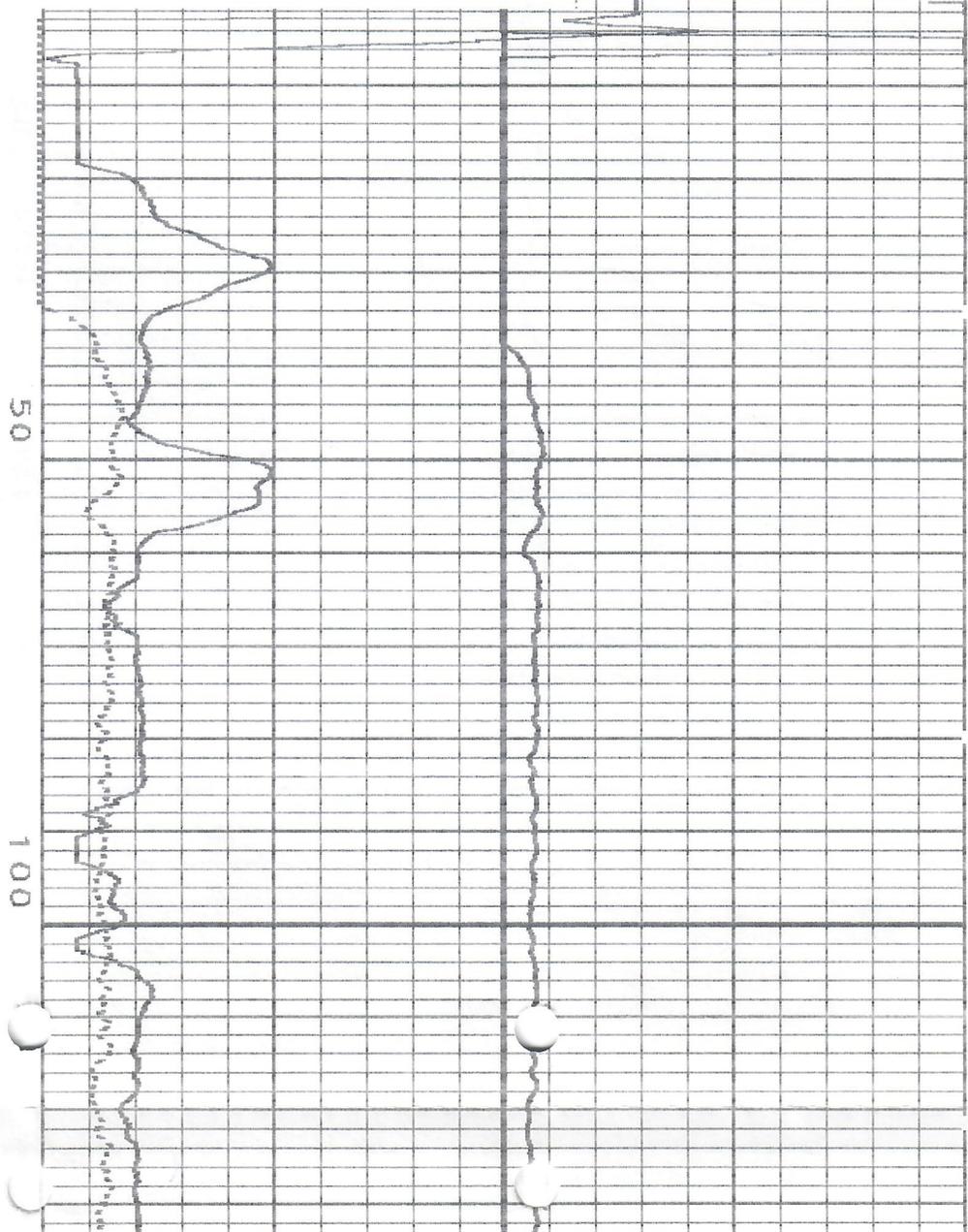
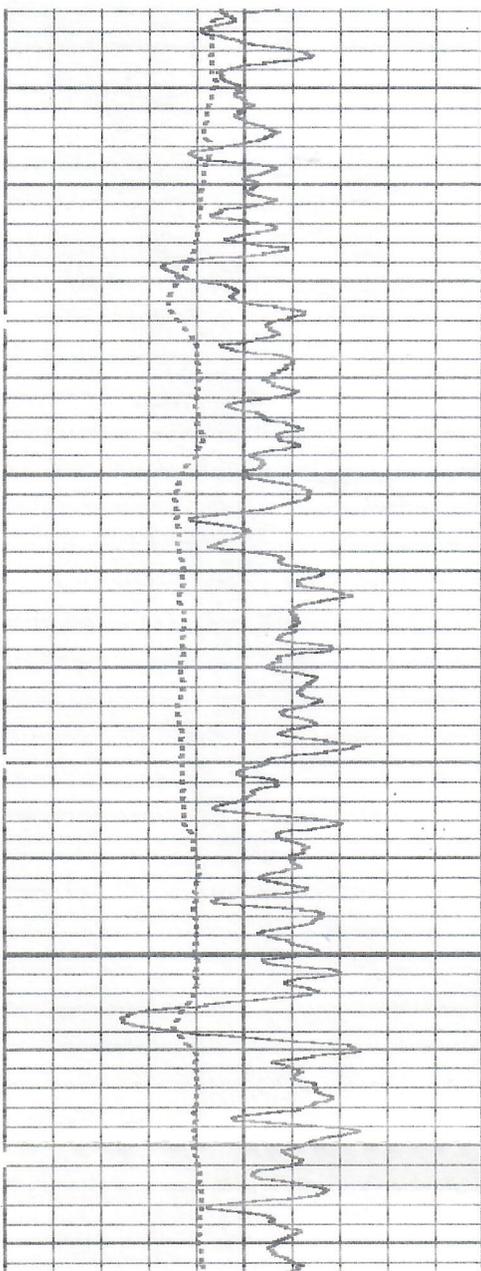
CHART SCALING		
0.00	SN	100.00

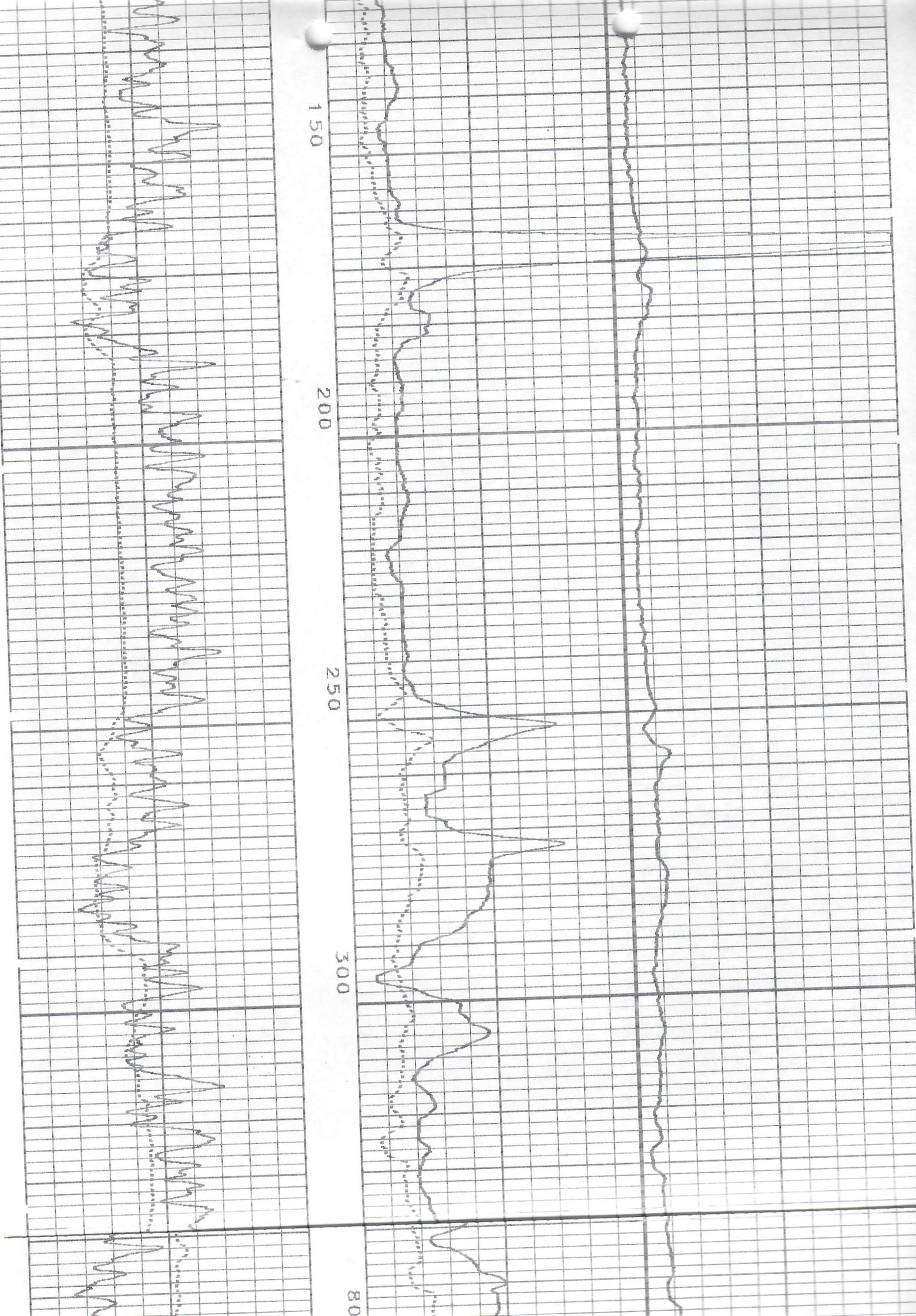
	OHMS/M	
0.00	LN	100.00

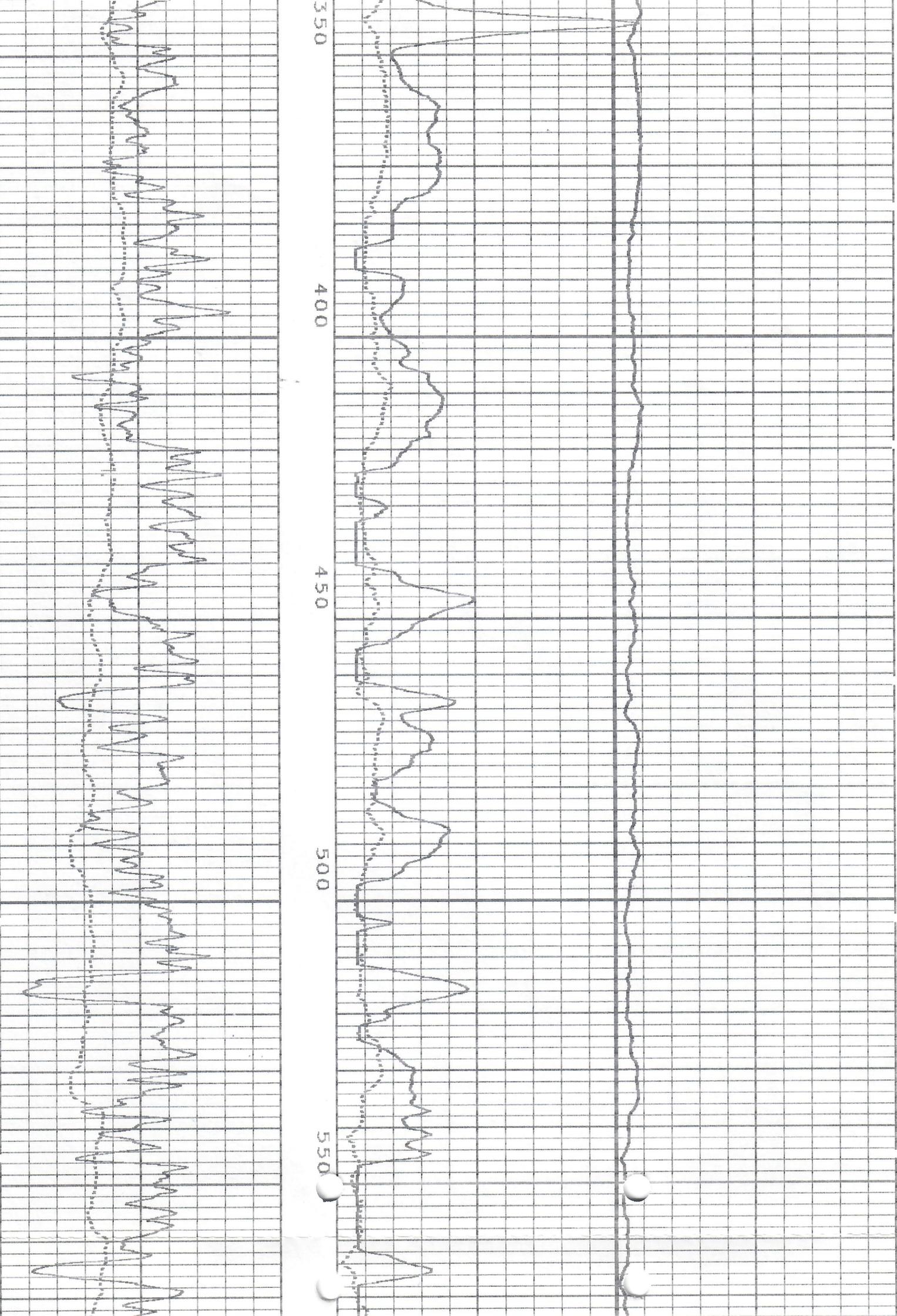
	OHMS/M	
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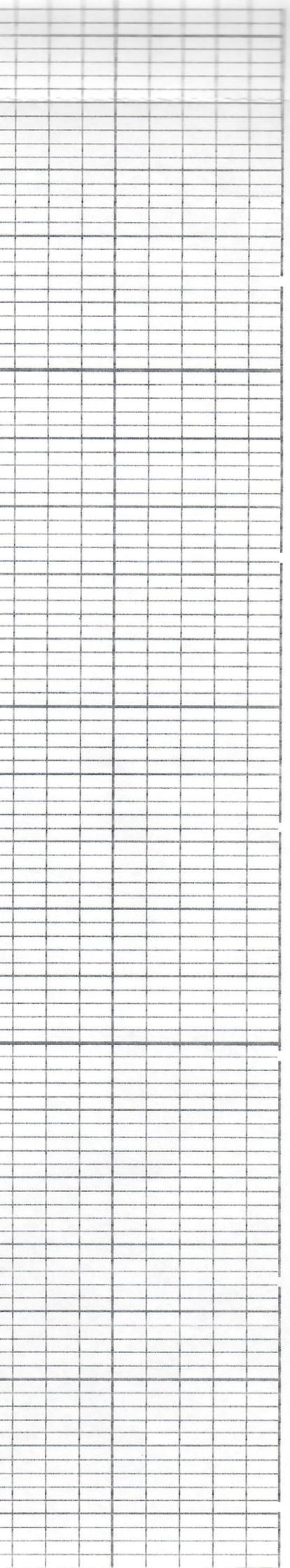
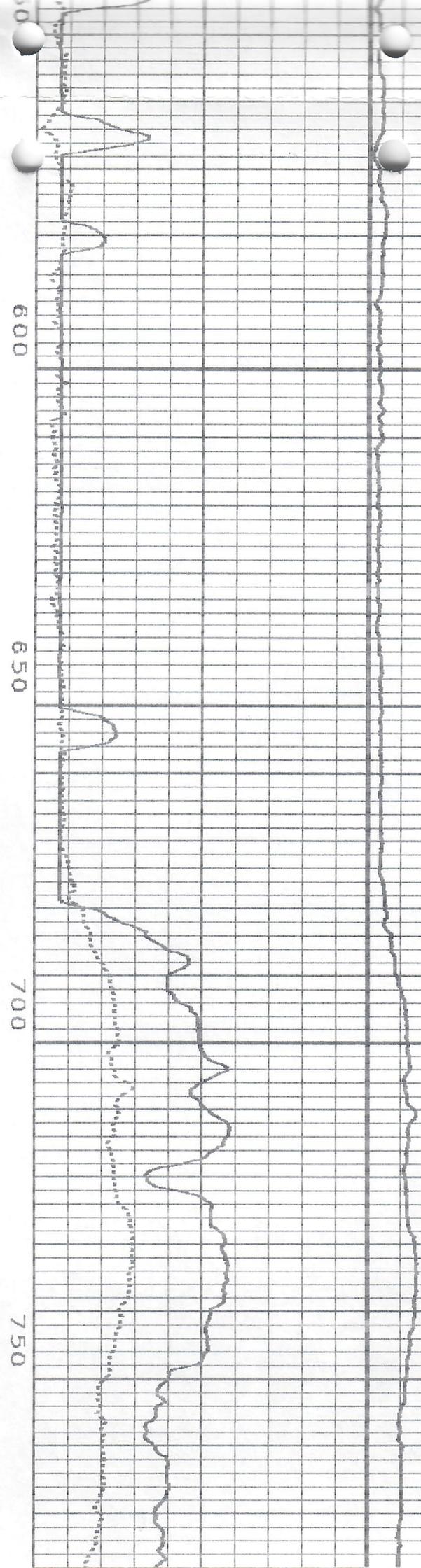
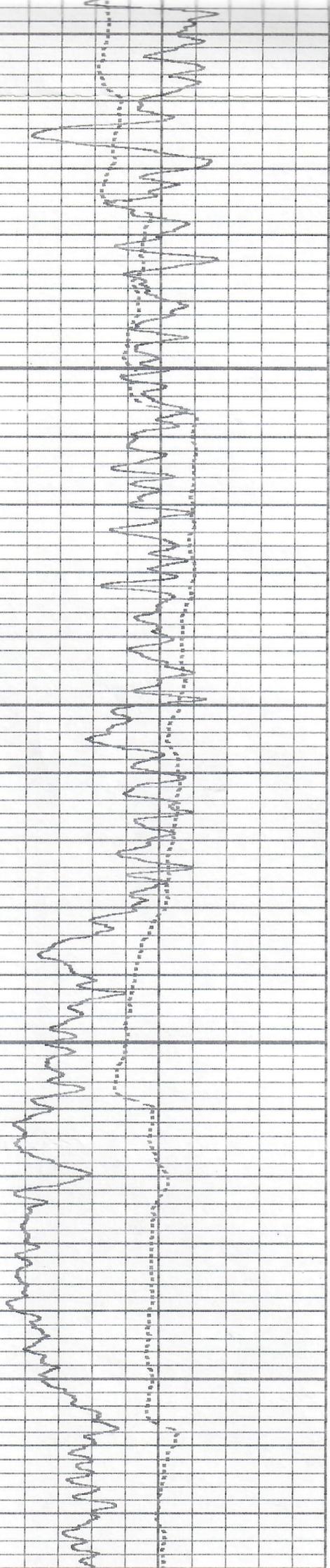
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STOP : 2.96 DEPTHS Mon Sep 23 18:12:49 2002 LOG UP









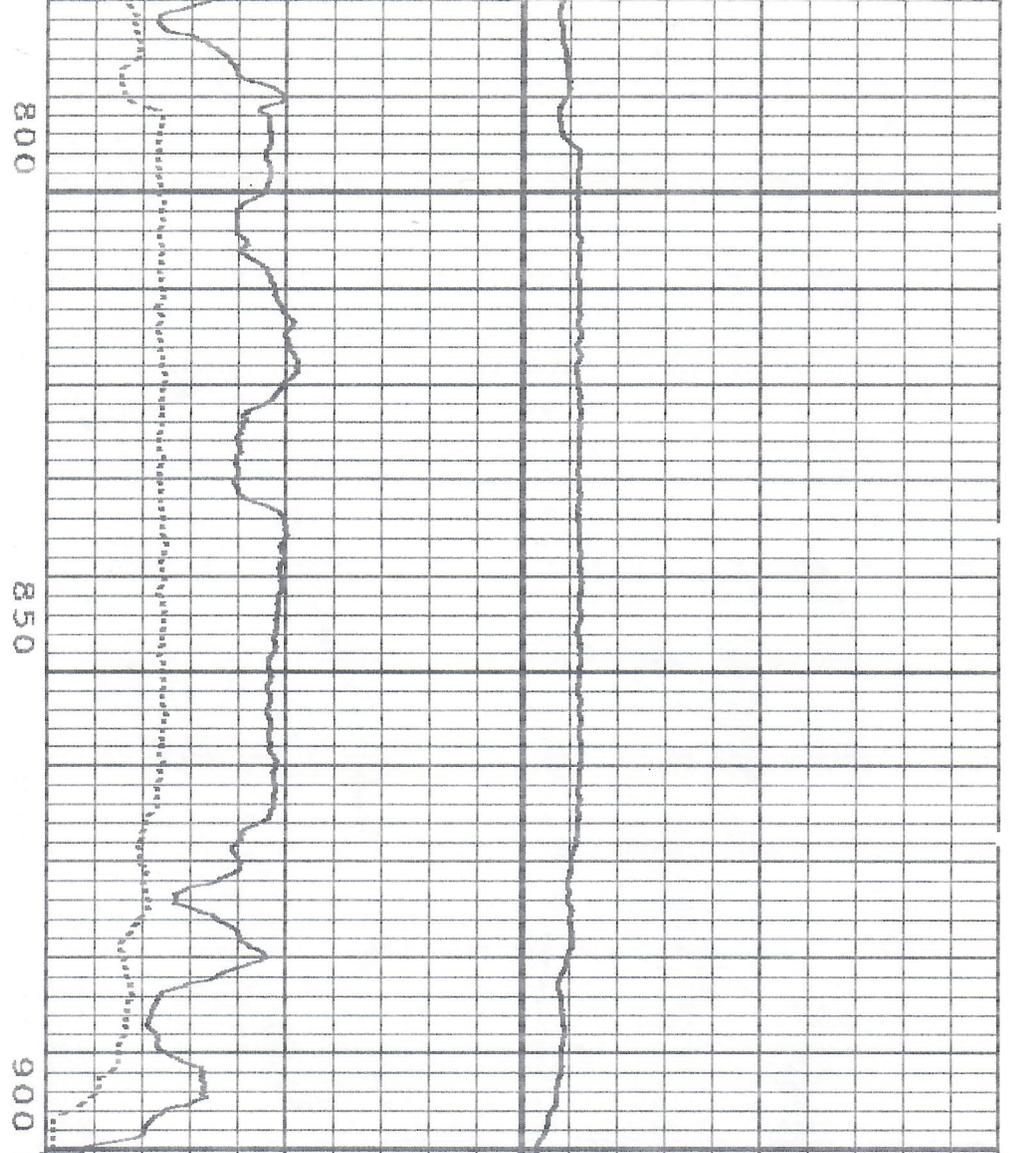
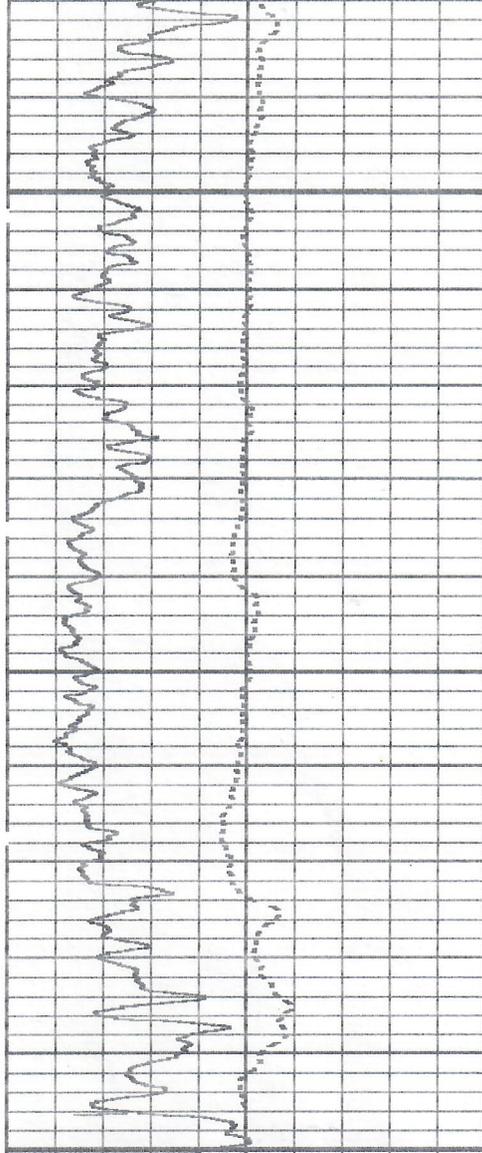


CHART SCALING		
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	MVS	
0.00	GR	100.00

	CPS	

CHART SCALING		
0.00	SN	100.00

	OHMS/M	
0.00	LN	100.00

	OHMS/M	
0.00	LN2	100.00

	OHMS/M	

START DEPTH: 900.36 DEPTHS Mon Sep 23 17:50:17 2002 LOG UP