

12 July 1971

GDLR NO. 1650

PROJECT: ECHES RIVER SALT WATER BARRIER

BORING NO. 79-87

LOCATION: BEAUMONT, TEXAS

TEST DATA SUMMARY

DATE DRILLED: 16 August 1979

FIELD NO.	Sample Depth, Feet		CLASSIFICATION ELEVATION TOP BORING _____	Length of sample recv'd	SYMBOL	CONSISTENCY	POCKET (1) PENETROMETER	STAN. PENET. BLOWS/FT (2)	MOISTURE CONTENT %	DRY DENSITY p. c. f.	L.L.	P.L.	Lab Sample No.	BAR L.S.	SIEVE ANALYSIS							
	From	To													PERCENT			INIT. WT.	ACC. WT. RTND. SIEVE NO. (3)			
															GRVL	SAND	FINES		NO. 4	NO. 10	NO. 40	NO. 200
			#Water at 10.0' 0.0-10.0																			
1C	0.0	2.5	Brown & gray sandy clay with random calcareous nodules	0.65	CL	VS	2.25		18	110			950									
2C	2.5	5.0	Brown & yellow sandy clay with random calcareous nodules & sand seams	1.05	M		0.50		22	101	49	15	951		12	22	66	50	6	7	10	17
3C	5.0	7.5	Yellow & gray sandy clay	1.2	M		0.75		21	103			952									
4C	7.5	10.0	Gray clay	1.15	S		0.25		29	91	48	19	953		0	4	96	50	0	0	0	2
5J	10.0	12.5	Wood (old log?) 10.0-12.5		OL								954									
6C	12.5	15.0	Gray clay with decayed wood and organic material 12.5-29.7	0.8	CH	VS	0.0		54	66			955									
7C	15.0	17.5	Gray clay with decayed wood; organic material	0.6		VS	0.0		63	59			956									
8C	17.5	20.0	Gray sandy clay with decayed wood and organic material	1.1		VS	0.0		40	74	50	19	957		0	16	84	50	0	0	0	8
9C	20.0	22.5	Gray sandy clay with decayed wood and organic material	1.15		VS	0.0		179	28			958									
10C	22.5	25.0	Gray sandy clay with decayed wood and organic material	1.2		M	0.50		43	77			959									
11C	25.0	27.5	Gray sandy clay with decayed wood and organic material	1.1		M	0.50		34	86	57	19	960		0	26	74	50	0	0	0	13
12C	27.5	30.0	Gray sandy clay	1.0		M	0.75		30	94	56	20	961		0	34	66	56	0	0	0	17
13J	30.0	32.5	Gray silty sand with grass roots 29.7-32.5		SM				29				962		0	92	8	50	0	0	0	46
14J	32.5	35.0	Gray silty sand with grass roots 32.5-37.5		SM				29				963		0	84	16	50	0	0	0	42
15J	35.0	37.0	Gray silty sand with clay lumps		SM	M		10	27				964		0	82	18	50	0	0	4	41
		37.0-37.5	#washed away																			

NOTES: CONSISTENCY - COHESIVE SOILS CONSISTENCY - COHESIONLESS SOILS (1) Tons/Sq. Ft. Unconfined Compressive Strength (2) Split Barrel Sampler (3) Acc. Wt. Std: Init. Wt. x 100 = % Std.

BORING NO. 79-87

Bottomed at _____ Water at _____ Tide Reading _____

Sheet 1 of sheets 2

GDLR NO. 1650

PROJECT: CHES RIVER SALT WATER BARRIER

BORING NO. 79-87

TEST DATA SUMMARY

LOCATION: _____

DATE DRILLED: _____

[illegible]

TEST:	CONSISTENCY - COHESIVE SOILS							CONSISTENCY - NONCOHESIVE SOILS					(1) Tens./Sq. Ft. Unconfined Compressive Strength
	VS	S	K	ST	VST	H	VL	L	M	D	VD	(2) Split Barrel Samples	
	Very Soft	Soft	Medium	Stiff	Very Stiff	Hard	Very Loose	Loose	Medium	Dense	Very Dense	(3) Acc. Wt. Std. x Int. Wt. x 100 = % Std.	

Bottomed at	Water at	Tide Reading
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BORING NO. 79-87

Sheet 2 of sheets 2

GAMMA LOG SURVEY

DISTRICT BORING NO. 79-87

PROJECT: NECHES RIVER SALT WATER BARRIER
FEATURE:
STATION:
ELEVATION:

DRILLED BY: BLACK BIT SIZE: 4" DATE: 8-17-79 DEPTH: 60.0

RUN NO.: 1 DATE: 8-17-79 BY: GREENOUGH DEPTH: 60.0
MUD WEIGHT: LOGGING SPP: 15 FT/MIN:
MUD TEMP: 79° TIME CONST: 2 SEC:

MUD RESISTIVITY: VARIABLE SPAN: 10 COUNT RANGE: 50 COUNTS/SEC:

REMARKS:

MUD CONDUCTIVITY 1.9 MHOS - 1216 PPM

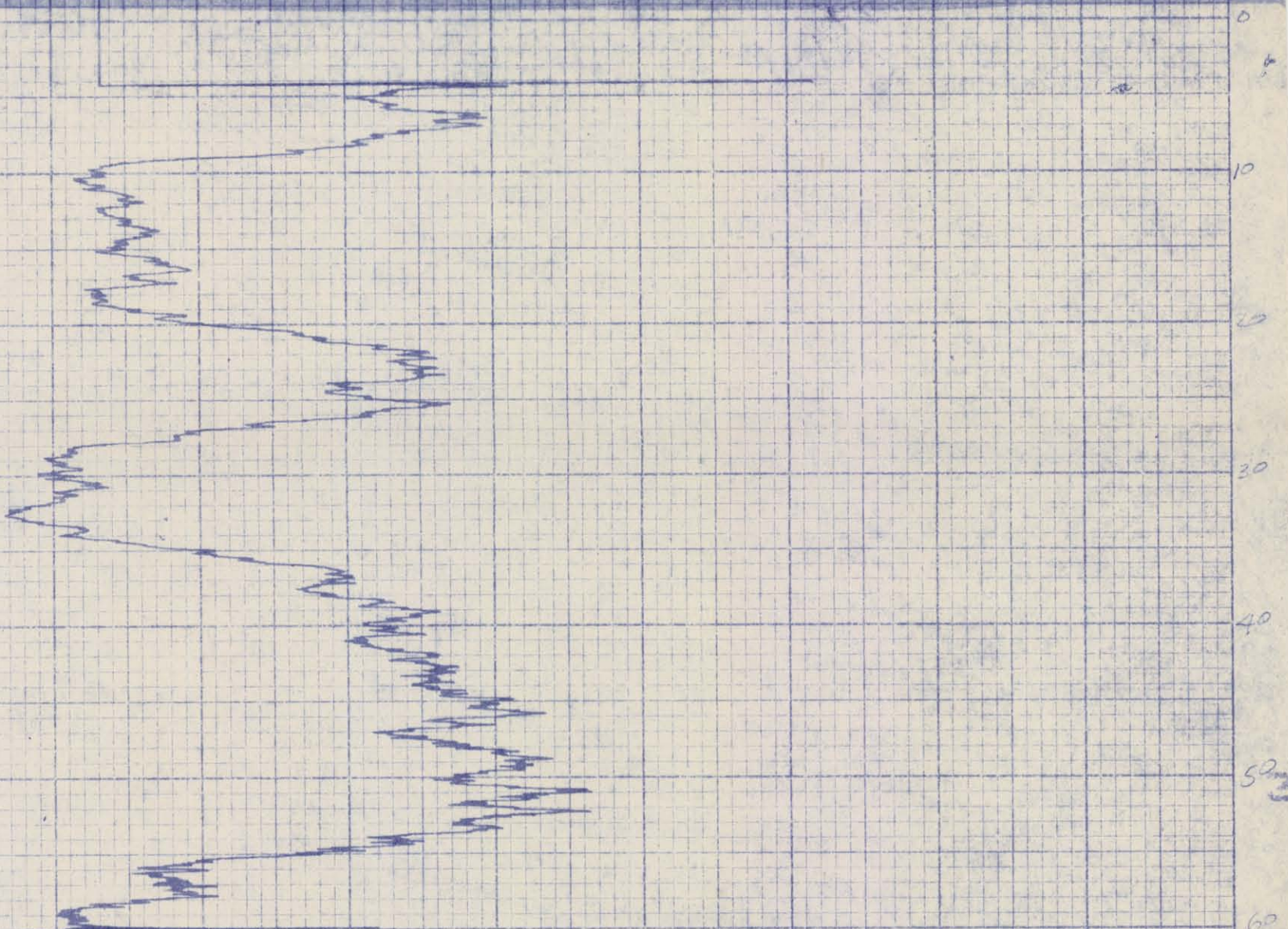
GAMMA RAY

DEPTH

SCALE

1"=10'

RADIATION INTENSITY INCREASES



ELECTRIC LOG SURVEY

DISTRICT BORING NO. 79-87

PROJECT: NECHES RIVER SALT WATER BARRIER
FEATURE:
STATION:
ELEVATION:

DRILLED BY: BLACK BIT SIZE: 4" DATE: 8-17-79 DEPTH: 60.0'

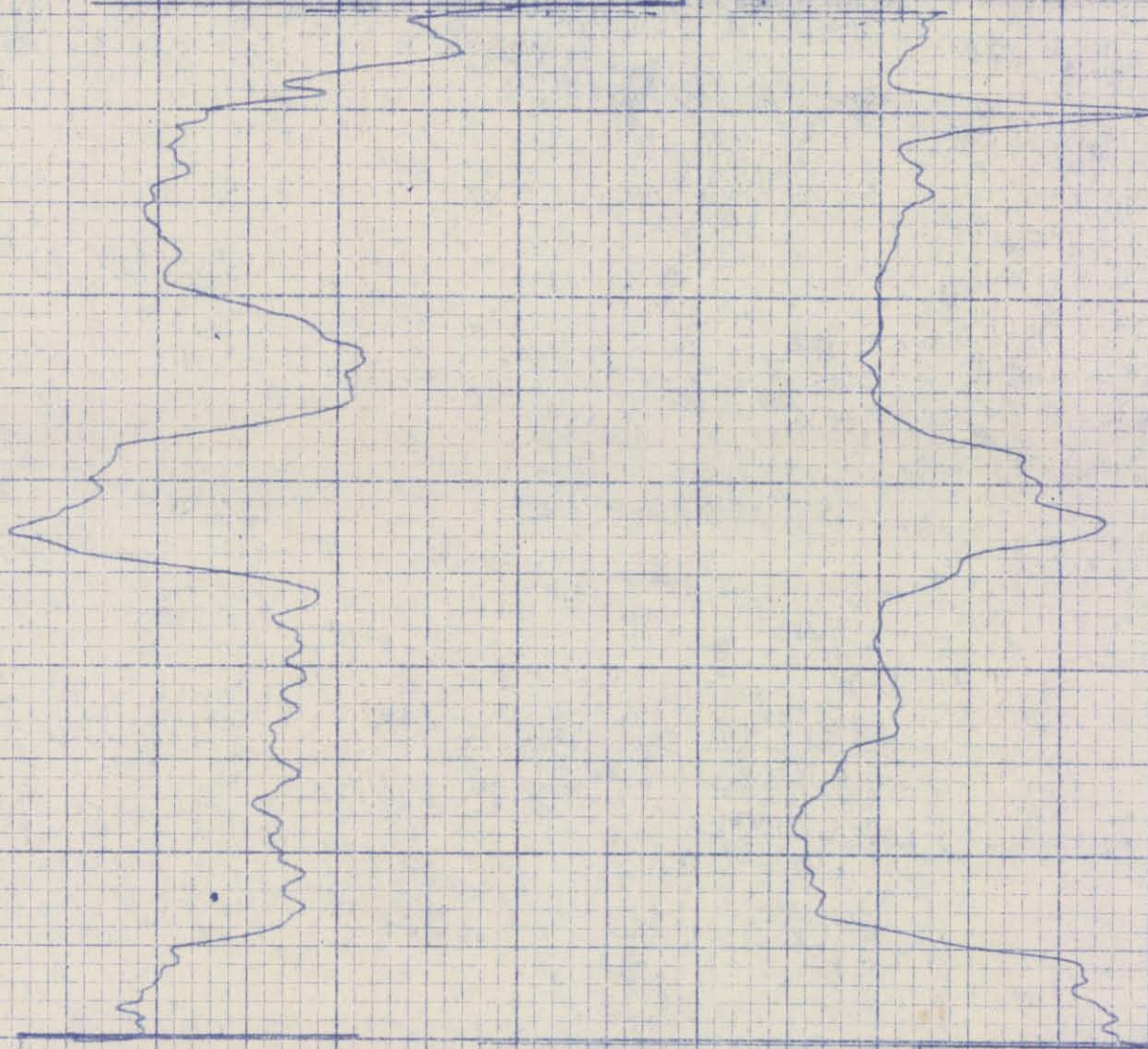
RUN NO.: 1 DATE: 8-17-79 BY: GREENOUGH DEPTH: 60.0'
MUD WEIGHT: VARIABLE SPAN (RESIS.) 20 OHMS - V. S. 8.0
MUD TEMP: 79° F
MUD RESISTIVITY: VARIABLE SPAN (SP) 25 MV - V. S. 4.0

REMARKS: 0.5' LOW IN HOLE
MUD CONDUCTIVITY 1.9 MHOS - 1216 PPM

POTENTIAL +
SCALE: — — — — — MILLIVOLTS

DEPTH RESISTANCE ———→
SCALE 1" = 10' ———→ OHMS

0.5' Low in Hole



60 ft

TABLE 2
GRAIN SIZE & PERCENT FINER ANALYSIS

NECHE: VER SALT WATER BARRIER

GALVESTON DISTRICT LABORATORY 1650

BORING NO.	SAMPLE NO.	DEPTH. (FT.)	GDLR NO.	Diameter in Millimeters/Percent Finer by Weight																			D ₁₀ MM			
				4.76	2.00	0.84	0.59	0.42	0.297	0.210	0.149	0.105	0.074	0.050	0.045	0.025	0.023	0.0094	0.0090	0.0064	0.0060	0.0047		0.0044	0.0034	0.0014
79-87	13	30.0'-32.5'	79-962						100	90	40	14	8													0.084
	14	32.5'-35.0'	79-963						100	95	59	31	19	11		9		9		8		8		7	6	0.035
	15	35.0'-37.0'	79-964			100	99	92	81	57	35	27	24	19		18			18	16		15		15	13	*
	24	58.0'-60.0'	79-973					100	99	95	80	57	37		22	13		10		9		8		8	7	0.009
79-88	1	31.0'-33.0'	79-1003		100	96	78	36	8	2	2	2	2													0.306
	11	55.0'-57.0'	79-1013						100	90	60	22	10													0.074
	12	60.0'-62.0'	79-1014						100	97	75	32	18	5		4		4		4		3		3	3	0.060
	14	65.0'-67.0'	79-1016						100	80	32	12	4													0.097
79-89	5	10.0'-12.5'	79-1031						100	92	62	36	24	20		18			15	14		13		13	11	*
	6	12.5'-15.0'	79-1032						100	96	77	60	51		42		37		31		29		27	26	22	*
	7	15.0'-17.5'	79-1033					100	99	89	40	18	13	13		13		10		10		10		9	8	0.008
	8	17.5'-20.0'	79-1034					100	99	90	49	21	15	14		13		11		11		10		9	8	0.005
	9	20.0'-22.5'	79-1035					100	98	84	36	14	8													0.084
	10	24.0'-26.0'	79-1036		100	96	90	78	60	28	16	12	10													0.074
	11	29.0'-31.0'	79-1037		100	98	96	82	52	22	12	8	6													0.127
	21	55.0'-56.0'	79-1047		100	96	96	96	96	96	95	83	63		40		28		19	18		15		15	12	*
	23	64.0'-66.0'	79-1049			100	98	96	74	44	22	10	8													0.105
	24	69.0'-71.0'	79-1050		100	94	84	70	58	42	22	8	6													0.111

*D₁₀ - not determined (paragraph 5a)

