

GRADATION ANALYSIS REPORT  
VERO BEACH VIBRACORE SAMPLES

FOR: X SOIL CLASSIFICATION X CORING SAMPLES BEACH SAMPLES CONCRETE AGGREGATES

ENVIRONMENTAL STATION NATURAL SOIL FILL SAMPLES PIT SAMPLES

DATE:	11/23/88	11/23/88	11/23/88
CORE #	72 @ 14' sample 3	72 @ 12.5'	CB-IR-72 #1:

Footnote:	1	2	3
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U.S.C.S.

DESCRIPTION	SP	SM-SC	GW
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DRY WT. (GRAMS)	155.62	96.45	104.38
DRY WT AFTER WASH	149.51	42.11	103.08
THROUGH #200 SIEVE			

SIEVE SIZE	PHI SIZE	MESH SIZE	GRAMS	% RET.	% PASS	GRAMS	% RET.	% PASS	GRAMS	% RET.	% PASS
5	-2.00	4.0mm	4.57			0.71			35.38		
7	-1.50	2.8mm	3.54	2.47	97.53	1.62	3.85	96.15	5.24	7.92	92.08
10	-1.00	2.0mm	11.20	7.80	92.20	4.84	11.49	88.51	9.12	13.79	86.21
14	-0.50	1.4mm	17.81	12.41	87.59	6.84	16.99	83.01	14.31	21.64	78.36
18	0.00	1.0mm	33.70	23.47	76.53	10.00	24.83	75.17	17.85	26.99	73.01
25	0.50	.71mm	61.04	42.52	57.48	14.00	34.77	65.23	21.08	31.87	68.13
35	1.00	.50mm	68.20	47.51	52.49	19.87	49.34	50.66	28.82	43.57	56.43
45	1.50	.355mm	93.72	65.28	34.72	24.30	60.34	39.66	42.47	64.21	35.79
60	2.00	.250mm	123.62	86.11	13.89	27.62	68.59	31.41	51.35	77.64	22.36
80	2.50	.180mm	137.22	95.58	4.42	30.01	74.52	25.48	55.09	83.29	16.71
120	3.00	.125mm	140.99	98.21	1.79	32.19	79.94	20.06	58.90	89.05	10.95
170	3.50	.090mm	142.90	99.54	0.46	37.83	93.94	6.06	65.45	98.96	1.04
200	3.75	.075mm	143.06	99.65	0.35	39.15	97.22	2.78	66.00	99.79	0.21
230	4.00	.063mm	143.27	99.80	0.20	40.03	99.40	0.60	66.07	99.89	0.11
PAN	5.00		143.56			40.27			66.14		
SIEVE LOSS			1.38			1.13			1.56		
WEIGHTED AVE(nmm)			0.467			0.379			0.434		
SILT CLAY%			4.25			57.50			1.38		

Footnotes: <sup>1</sup> Sample taken from portion of vibracore not analyzed by Corps, but corresponding to Corps sample.

<sup>2</sup> Sample taken from portion of vibracore not analyzed by Corps.

<sup>3</sup> Washed sample; analyzed by Corps, re-analyzed by Gilloti, Frione & Assoc., Inc.

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ENVIRONMENTAL STATION NATURAL SOIL FILL SAMPLES PIT SAMPLES

DATE:	11/23/88	11/23/88	11/23/88
CORE #	CB-IR-72 #3	74 @ 4'-6'	77 @ 0-15'

Footnote:	3	2	2
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U.S.C.S.

DESCRIPTION	GM	GM	SP
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DRY WT. (GRAMS)	88.81	132.86	179.51
DRY WT AFTER WASH THROUGH #200 SIEVE	88.09	130.56	171.25

SIEVE SIZE	PHI SIZE	MESH SIZE	GRAMS	% RET.	% PASS	GRAMS	% RET.	% PASS	GRAMS	% RET.	% PASS
5	-2.00	4.0mm	10.23			31.71			1.31		
7	-1.50	2.8mm	5.98	7.74	92.26	8.59	6.58	93.42	0.67	0.39	99.61
10	-1.00	2.0mm	13.12	16.97	83.03	19.31	14.79	85.21	2.61	1.54	98.46
14	-0.50	1.4mm	17.80	23.03	76.97	25.35	25.80	74.20	4.92	2.90	97.10
18	0.00	1.0mm	24.81	32.10	67.90	35.61	36.24	63.76	7.99	4.71	95.29
25	0.50	.71mm	33.31	43.09	56.91	44.00	44.77	55.23	10.87	6.40	93.60
35	1.00	.50mm	45.61	59.00	41.00	60.14	61.20	38.80	18.67	11.00	89.00
45	1.50	.355mm	58.84	76.12	23.88	74.39	75.70	24.30	33.12	19.51	80.49
60	2.00	.250mm	68.21	88.24	11.76	78.51	79.89	20.11	56.15	33.07	66.93
80	2.50	.180mm	73.62	95.24	4.76	81.23	82.66	17.34	63.77	37.56	62.44
120	3.00	.125mm	75.45	97.61	2.39	91.81	93.43	6.57	127.09	74.86	25.14
170	3.50	.090mm	76.86	99.43	0.57	97.22	98.93	1.07	163.70	96.42	3.58
200	3.75	.075mm	77.23	99.91	0.09	98.04	99.77	0.23	167.58	98.70	1.30
230	4.00	.063mm	77.28	99.97	0.03	98.24	99.97	0.03	169.71	99.96	0.04
PAN	5.00		77.30			98.27			169.78		

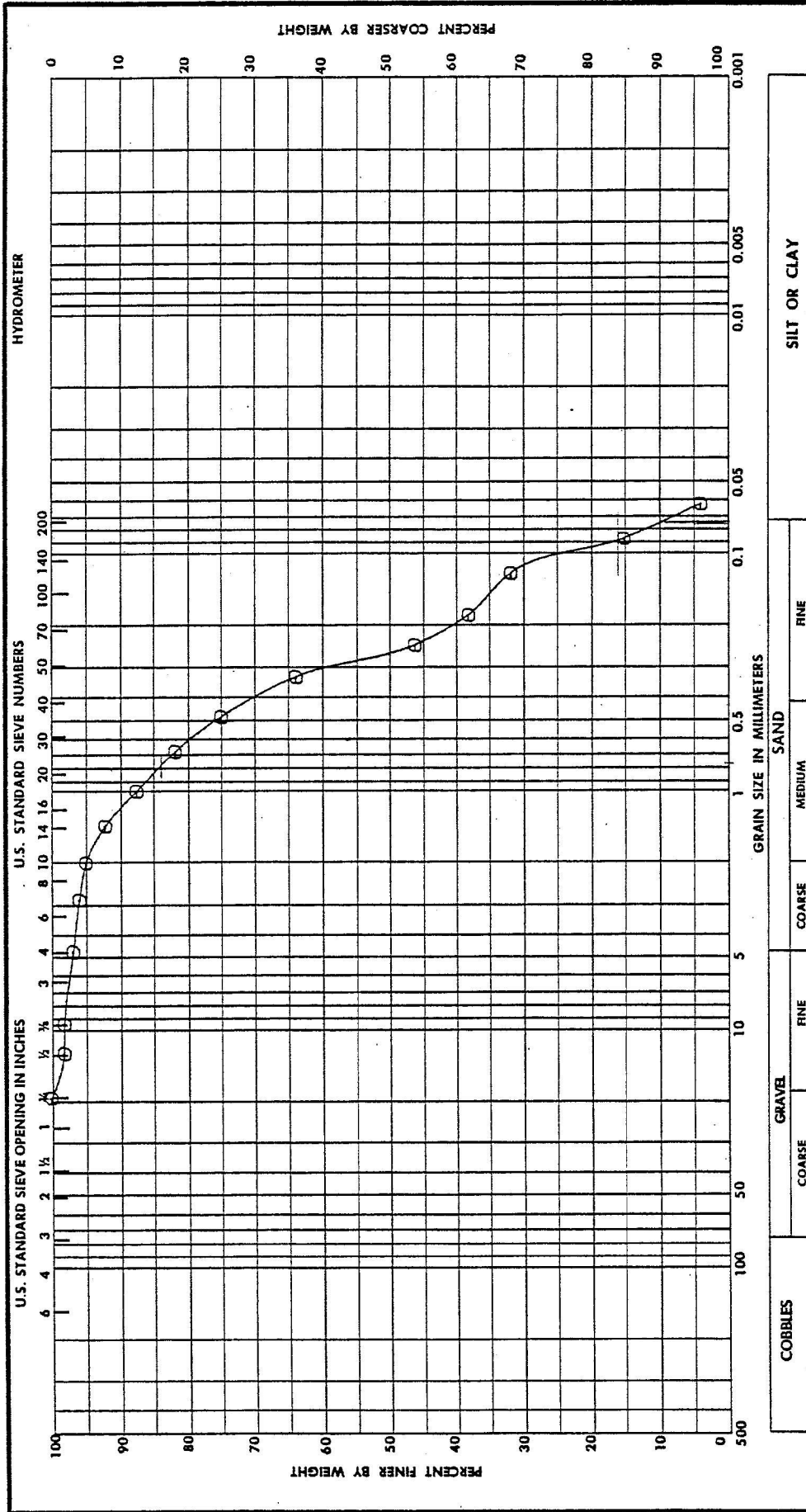
SIEVE LOSS	0.56	0.58	0.16
WEIGHTED AVE(mm)	0.572	0.550	0.170
SILT CLAY%	0.89	1.90	5.83

- Footnotes: 1 Sample taken from portion of vibracore not analyzed by Corps, but corresponding to Corps sample.
- 2 Sample taken from portion of vibracore not analyzed by Corps.
- 3 Washed sample; analyzed by Corps, re-analyzed by Gilloti, Frione & Assoc., Inc.

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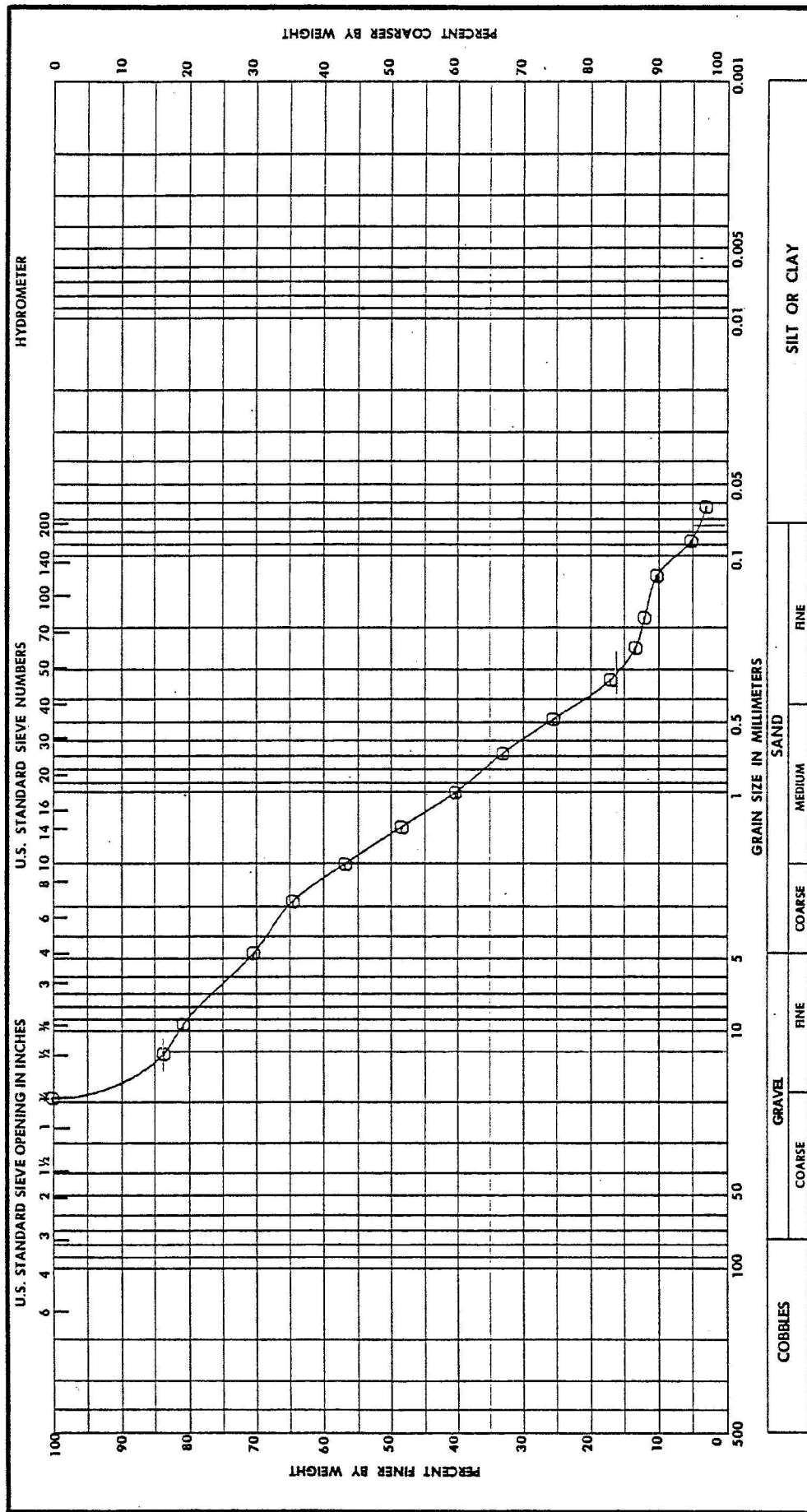
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Req. No. RM-CW-85-0111



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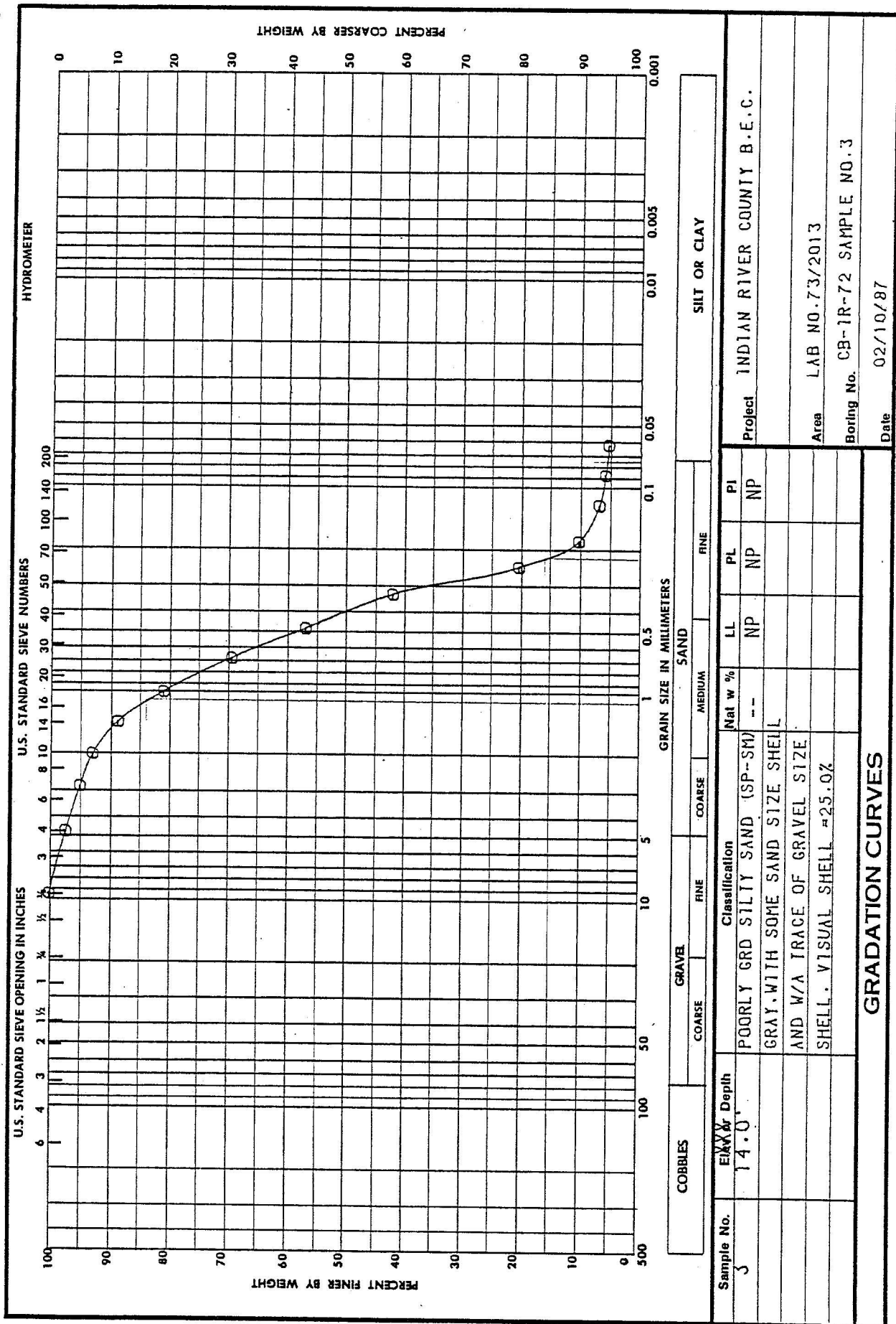
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W.O. No. 4606

Req. No. RM-CW-85-0111



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