

3A-9

326

(7)

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**00 326**

COMPO NUMBER- W051

DRILL HOLE NUMBER- 1754

SEAM NUMBER- 14 38631-632

FLOTATION RESULTS

PRODUCT	WEIGHT (GMS)	WEIGHT %	ASSAY		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	182.	92.4	10.4	7.5	64.8	97.7
TAILS	15.	7.6	68.4	0.5	35.2	2.8
CALC. HEAD	197.	100.0	14.8		100.0	100.0

PAGE 2

MINUTE FLUX TOWER CALCULATIONS FOR (#20MESH) FRACTION

20% 40% 60% 80% 100% CUM.WT. FRACTION ASH WT. CUM.WT. CUM.FLT. SIZING ASH CUM.FLT.

PRINTED IN CANADA

TABLE 1

## WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

SG	WT. (GMS.)	WT. %	CUM. WT. %	FRACTION ASH %	ASH WT. OF TOT.	CUM. WT. %	CUM. FLTS. ASH	SINKS WT. %	ASH WT. %	CUM. SINKS WT. %	CUM. SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	1352	45.71	45.71	3.10	1.42	1.42	3.10	20.88	54.29	38.46	3.10	22.85	7.0	
1.30-1.35	376	12.71	58.42	9.80	1.91	2.82	4.49	19.68	41.88	47.32	4.50	52.06	6.5	
1.35-1.40	154	5.21	63.62	14.60	0.76	3.38	5.32	18.92	36.38	52.00	14.60	61.02	6.0	
1.40-1.45	97	3.28	66.90	21.00	0.69	4.07	6.09	18.23	33.10	55.07	21.00	65.26	5.0	
1.45-1.50	78	2.64	69.54	24.30	0.64	4.71	6.78	17.59	30.46	57.74	24.30	68.22	3.0	
1.50-1.60	148	5.00	74.54	33.00	1.65	6.37	8.54	15.94	25.46	62.60	33.00	72.04	2.0	
1.60 SINK	753	25.46	100.00	62.60	15.94	22.30	22.30	0.0	0.00	0.0	62.60	87.27	0.5	

## FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAF	RECOVERY AND ASH CALCULATIONS						
		A	R	FR	FAR	FRAI	FRI	AP
0.0577	0.0060	4.0	54.5	0.5109	0.0204	0.0264	.569	4.6
0.0577	0.0060	6.0	66.6	0.6241	0.0374	0.0434	.682	6.4
0.0577	0.0060	8.0	73.2	0.6860	0.0549	0.0609	.744	8.2
0.0577	0.0060	10.0	78.4	0.7350	0.0735	0.0795	.793	10.0
0.0577	0.0060	12.0	83.2	0.7803	0.0936	0.0996	.838	11.9
0.0577	0.0060	14.0	87.5	0.8208	0.1149	0.1209	.878	13.8
0.0577	0.0060	16.0	91.4	0.8565	0.1370	0.1430	.914	15.6
0.0577	0.0060	18.0	94.6	0.8874	0.1597	0.1657	.945	17.5
0.0577	0.0060	20.0	97.4	0.9135	0.1827	0.1887	.971	19.4

COMPO NUMBER- W051

DRILL HOLE NUMBER- 1754

SEAM NUMBER- 14 38631-632

## DATA

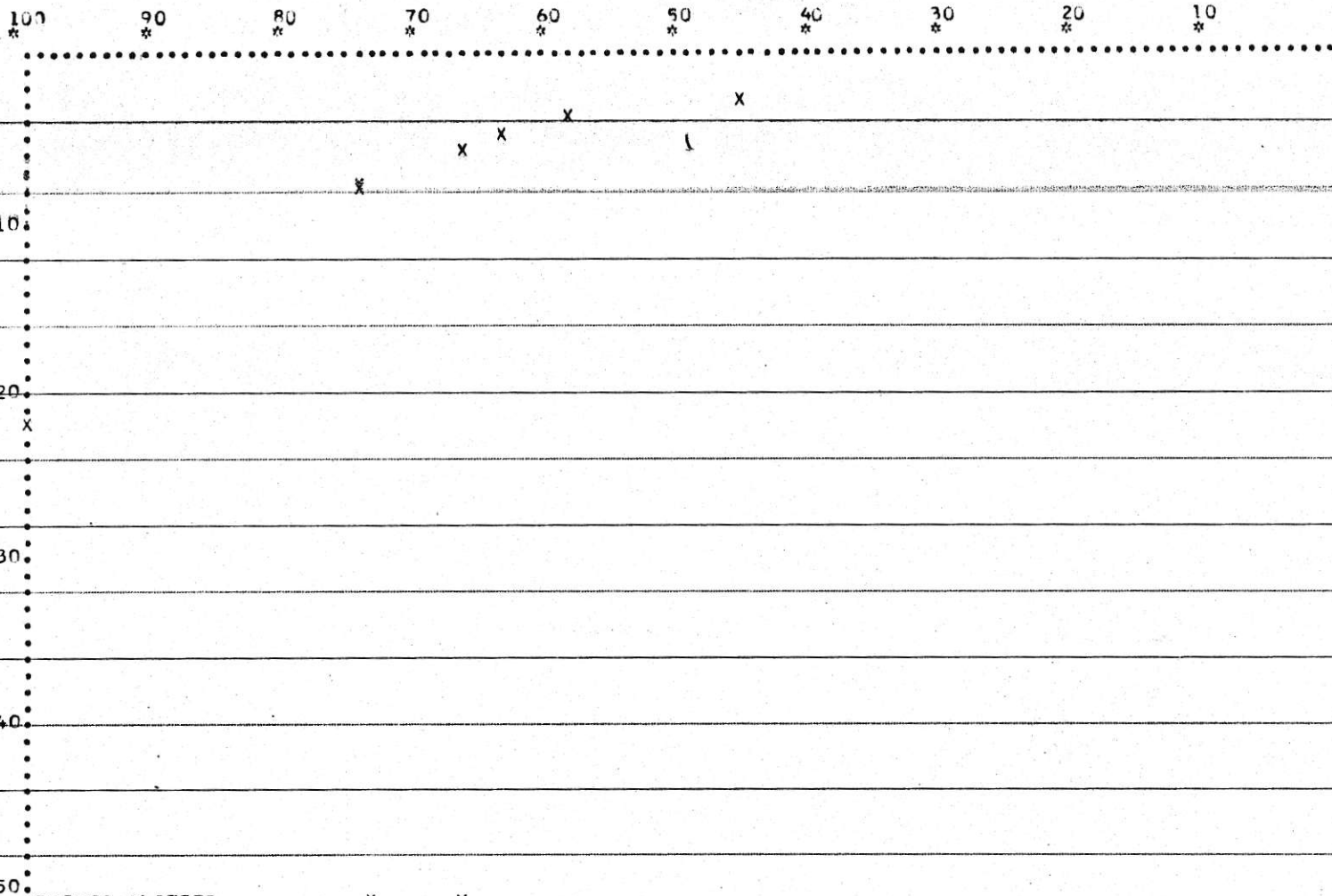
## SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MFSH	2958.	93.8	22.3
-28MFSH	197.	6.2	14.8
FEED	3155.	100.0	21.8

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	10.40	92.39		5.77	7.66
PLUS 28	8.37	74.14	1.59	69.51	92.34
COMBINED	8.50	75.28		75.28	100.00
FLOTATION	10.40	92.39		5.77	7.53
PLUS 28	8.91	75.54	+1.60	70.82	92.47
COMBINED	9.00	76.59		76.59	100.00
FLOTATION	10.40	92.39		5.77	7.40
PLUS 28	9.44	76.95	+1.60	72.15	92.60
COMBINED	9.50	77.92		77.92	100.00
FLOTATION	10.40	92.39		5.77	7.28
PLUS 28	9.97	78.33	+1.60	73.44	92.72
COMBINED	10.00	79.21		79.21	100.00

CUMULATIVE FLOATS WEIGHT PERCENT



POINTS PLOTTED

X	Y
45	3
58	4
63	5
66	6
69	6
74	8
99	22

CUMULATIVE FLOATS WEIGHT PERCENT

30 20 10

CUMULATIVE FLOATS WEIGHT PERCENT

100 \* 90 \* 80 \* 70 \* 60 \* 50 \* 40 \* 30 \* 20 \* 10 \*

1.3

X

X

1.4

X

SPECIFIC GRAVITY

X

1.5

X

1.6

X

1.7

POINTS PLOTTED

X	Y
45	10
58	15
63	20
66	25
69	30
74	40



COMPO NUMBER- W050

DRILL HOLE NUMBER- 1754

SEAM NUMBER- 140 3362A-629

FLOTATION RESULTS

KERDSENE 0.90 FROTHER 0.20

PRODUCT	WEIGHT (GMS)	WEIGHT %	ASSAY		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	235.	71.9	14.0	7.5	41.1	81.9
TAILS	92.	28.1	51.3	1.5	58.9	18.1
CALC. HEAD	327.	100.0	24.5		100.0	100.0

TABLE 1

WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

SG	WT.	WT.	CUM.WT.	FRACTION	ASH WT.	CUM.WT.	CUM.FLTS.	SINKS	ASH	CUM.SINKS	CUM.SINKS	ASH	FLTS.	FSI
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TABLE 1

## WASHABILITY CURVE CALCULATIONS FOR (1+28MESH) FRACTION

SG	WT. (GMS.)	WT. %	CUM.WT. %	FRACTION ASH %	ASH WT. OF TOT.	CUM.WT. %	CUM.FLTS. ASH	SINKS WT. %	ASH	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	1043.	29.46	29.46	4.00	1.02	1.02	4.00	38.08		74.54	51.09	4.00	12.73	7.5
1.30-1.35	258.	8.74	34.20	11.30	0.99	2.01	5.87	37.10		65.80	56.37	11.30	29.83	6.5
1.35-1.40	326.	7.96	42.15	16.70	1.33	3.33	7.91	35.77		57.85	61.83	16.70	38.17	6.0
1.40-1.45	179.	4.37	46.52	21.00	0.92	4.25	9.14	34.85		53.48	65.17	21.00	44.34	5.0
1.45-1.50	104.	2.54	49.06	26.40	0.67	4.92	10.03	34.18		50.94	67.10	26.40	47.79	4.5
1.50-1.60	143.	3.49	52.55	33.10	1.16	6.08	11.57	33.02		47.45	69.60	33.10	50.81	4.0
1.60 SINK	1944.	47.45	100.00	69.60	33.02	39.10	39.10	0.0		0.00	0.0	69.60	76.28	0.0

FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFFAF	RECOVERY AND ASH CALCULATIONS				FRAI	FRI	AP
		A	R	FR	FAR			
0.0531	0.0074	4.0	25.5	0.2358	0.0094	0.0169	.289	5.8
0.0531	0.0074	6.0	34.8	0.3219	0.0193	0.0268	.375	7.1
0.0531	0.0074	8.0	42.5	0.3938	0.0315	0.0389	.447	8.7
0.0531	0.0074	10.0	49.0	0.4536	0.0454	0.0528	.507	10.4
0.0531	0.0074	12.0	53.5	0.4957	0.0595	0.0669	.549	12.2
0.0531	0.0074	14.0	57.9	0.5363	0.0751	0.0825	.589	14.0
0.0531	0.0074	16.0	62.1	0.5756	0.0921	0.0995	.629	15.8
0.0531	0.0074	18.0	66.2	0.6134	0.1104	0.1178	.666	17.7
0.0531	0.0074	20.0	70.2	0.6498	0.1300	0.1374	.703	19.5

COMPO NUMBER- W350

DRILL HOLE NUMBER- 1754

SEAM NUMBER- 101, 30628-629

## DATA

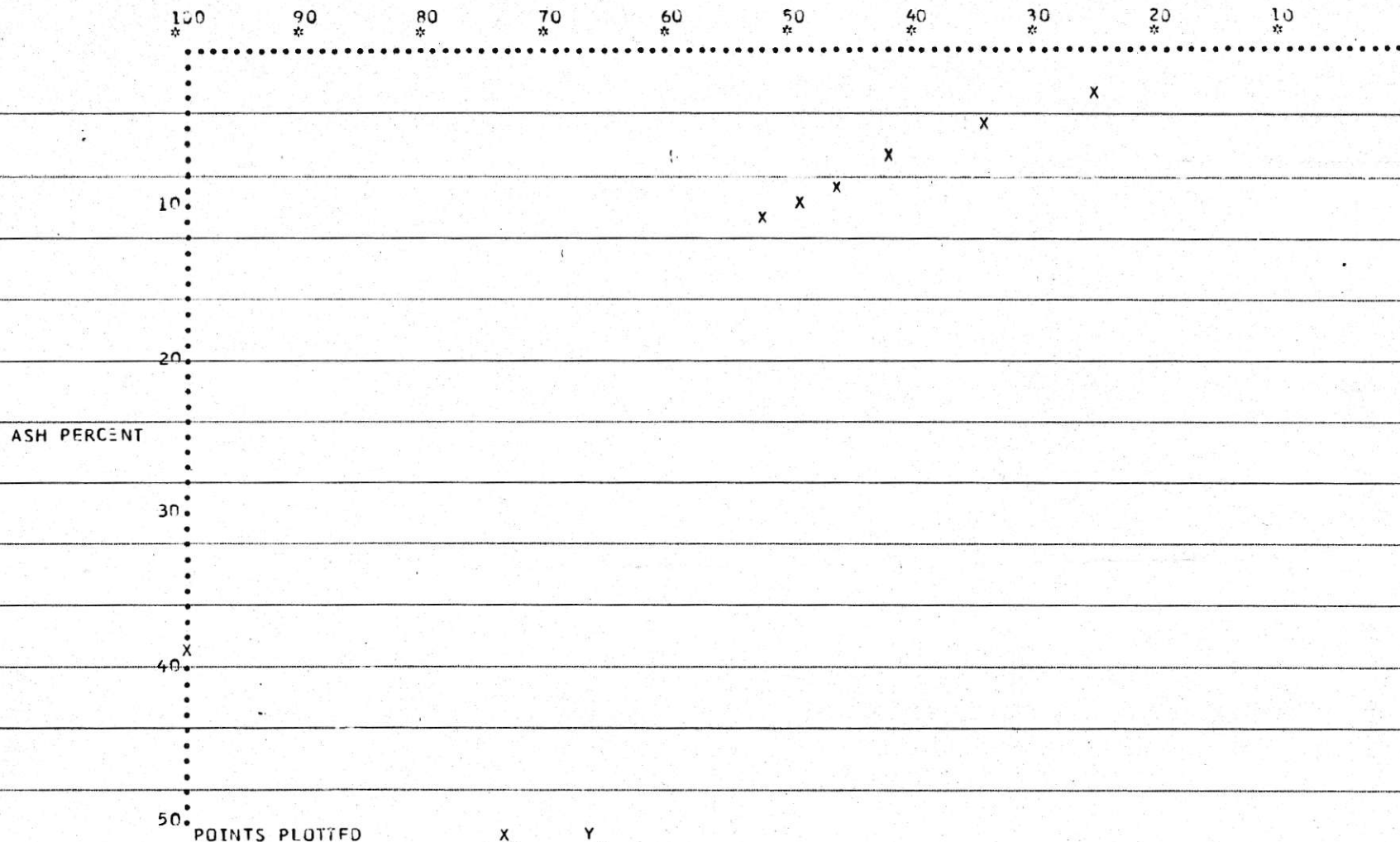
## SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MESH	4097.	92.6	39.1
-28MESH	327.	7.4	24.5
FEED	4424.	100.0	38.0

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	14.00	71.87		5.31	11.83
PLUS 28	8.06	42.75	1.41	39.59	88.17
COMBINED	8.50	44.90		44.90	100.00
FLOTATION	14.00	71.87		5.31	11.37
PLUS 28	8.60	44.72	1.43	41.41	88.63
COMBINED	9.00	46.73		46.73	100.00
FLOTATION	14.00	71.87		5.31	10.97
PLUS 28	9.14	46.56	1.45	43.12	89.03
COMBINED	9.50	48.43		48.43	100.00
FLOTATION	14.00	71.87		5.31	10.64
PLUS 28	9.68	48.15	1.48	44.59	89.36
COMBINED	10.00	49.91		49.91	100.00

CUMULATIVE FLOATS WEIGHT PERCENT



X	Y
25	3
34	5
42	7
46	9
49	10
52	11
99	39

CUMULATIVE FLOATS WEIGHT PERCENT

100 \* 90 \* 80 \* 70 \* 60 \* 50 \* 40 \* 30 \* 20 \* 10 \*

SPECIFIC GRAVITY

1.3

X

X

1.4

X

X

1.5

X

1.6

X

1.7

POINTS PLOTTED

X	Y
25	10
34	15
42	20
46	25
49	30
52	40

COMPO NUMBER- W049

DRILL HOLE NUMBER- 1754

SEAM NUMBER- 140 386.6-627

FLOTATION RESULTS

PRODUCT	WEIGHT (GMS)	WEIGHT %	ASSAY		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	236.	74.4	10.3	1.5	50.3	78.8
TAILS	81.	25.6	29.7	0.5	49.7	21.2
CALC. HEAD	317.	100.0	19.3		100.0	100.0

TABLE 1

## WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

SG	WT. (GMS.)	WT. %	CUM.WT. %	FRACTION ASH %	ASH WT. OF TOT.	CUM.WT. %	CUM.FLTS. ASH	SINKS WT. %	ASH	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	874.	38.08	38.08	2.80	1.07	1.07	2.80	20.23		61.92	32.68	2.80	19.04	5.5
1.30-1.35	487.	21.00	59.08	4.80	1.91	2.07	3.51	19.22		40.92	48.99	4.80	48.58	1.0
1.35-1.40	182.	7.93	67.02	8.20	0.65	2.72	4.07	18.57		32.98	58.31	8.20	63.05	1.0
1.40-1.45	65.	2.83	69.85	12.60	0.36	3.08	4.41	18.22		30.15	60.42	12.60	68.43	1.0
1.45-1.50	39.	1.70	71.55	20.40	0.35	3.43	4.79	17.87		28.45	62.81	20.40	70.70	1.0
1.50-1.60	81.	3.53	75.08	20.50	0.72	4.15	5.53	17.15		24.92	68.80	20.50	73.31	1.0
1.60 SINK	572.	24.92	100.00	68.80	17.15	21.30	21.30	0.0		0.00	0.0	68.80	87.54	0.0



## FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAF	RECOVERY		AND ASH CALCULATIONS		FRAI	FRI	AP
		A	R	FR	FAR			
0.0904	0.0093	4.0	66.4	0.5834	0.0233	0.0326	.674	4.8
0.0904	0.0093	6.0	77.2	0.6784	0.0407	0.0500	.769	8.5
0.0904	0.0093	8.0	85.1	0.7499	0.0608	0.0693	.840	8.2
0.0904	0.0093	10.0	91.9	0.8077	0.0808	0.0901	.898	10.0
0.0904	0.0093	12.0	97.0	0.8519	0.1022	0.1115	.942	11.8
0.0904	0.0093	14.0	****	0.8825	0.1236	0.1329	.973	13.7
0.0904	0.0093	16.0	****	0.8995	0.1439	0.1532	.990	15.5
0.0904	0.0093	18.0	****	0.9029	0.1625	0.1718	.993	17.3
0.0904	0.0093	20.0	****	0.8926	0.1785	0.1878	.983	19.1

COMPO NUMBER- W049

DRILL HOLE NUMBER- 1754

SEAM NUMBER- 14038626-627

DATA

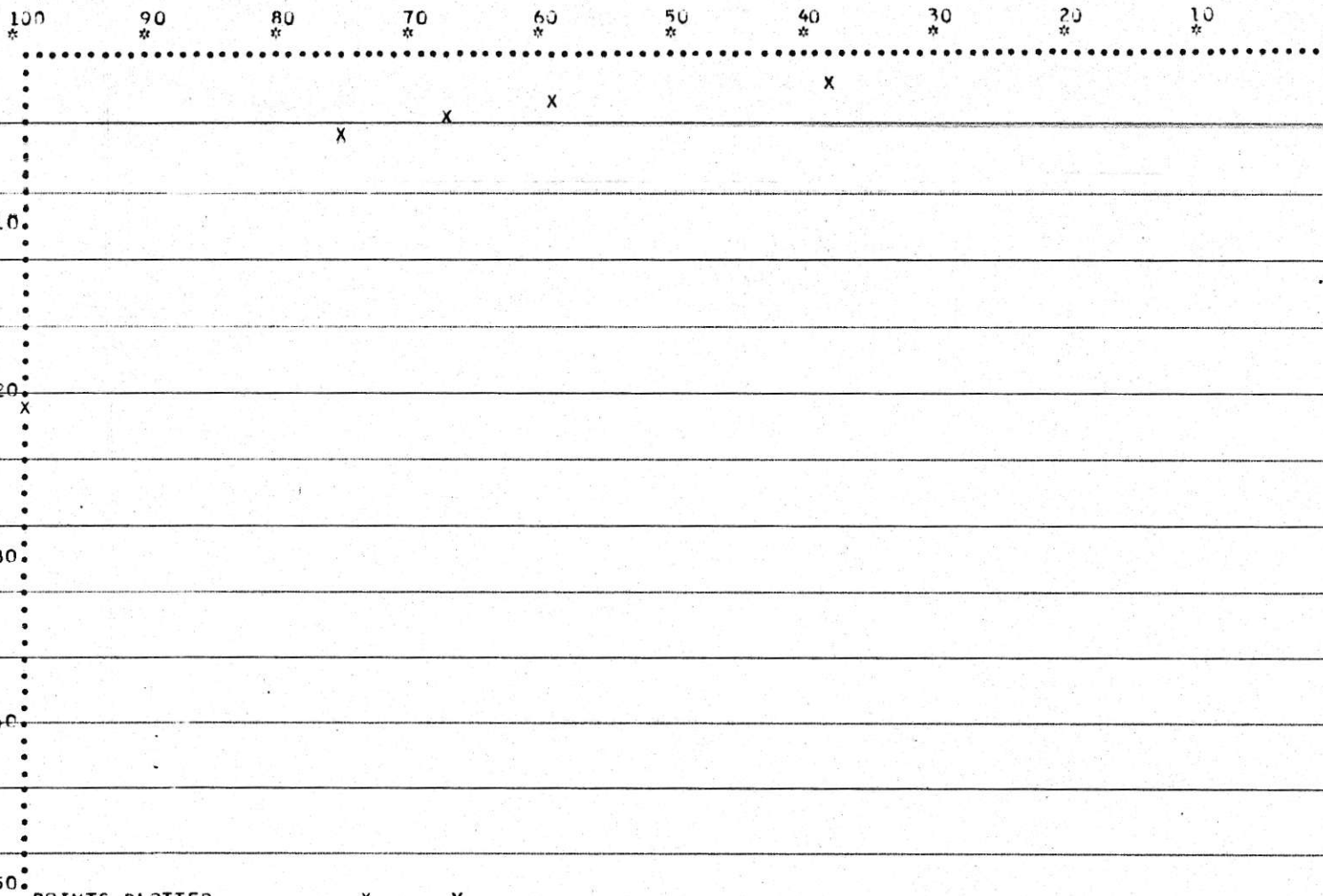
SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MESH	2295.	87.9	21.3
=28MESH	317.	12.1	15.3
FEED	2612.	100.0	20.6

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	10.30	74.45		9.04	10.65
PLUS 28	8.25	86.20	+1.60	75.79	89.35
COMBINED	8.50	84.82		84.82	100.00
FLOTATION	10.30	74.45		9.04	10.44
PLUS 28	8.82	88.23	+1.60	77.53	89.56
COMBINED	9.00	86.56		86.56	100.00
FLOTATION	10.30	74.45		9.04	10.25
PLUS 28	9.39	90.08	+1.60	79.15	89.75
COMBINED	9.50	88.19		88.19	100.00
FLOTATION	10.30	74.45		9.04	10.07
PLUS 28	9.96	91.81	+1.60	80.67	89.93
COMBINED	10.00	89.70		89.70	100.00

CUMULATIVE FLOATS WEIGHT PERCENT

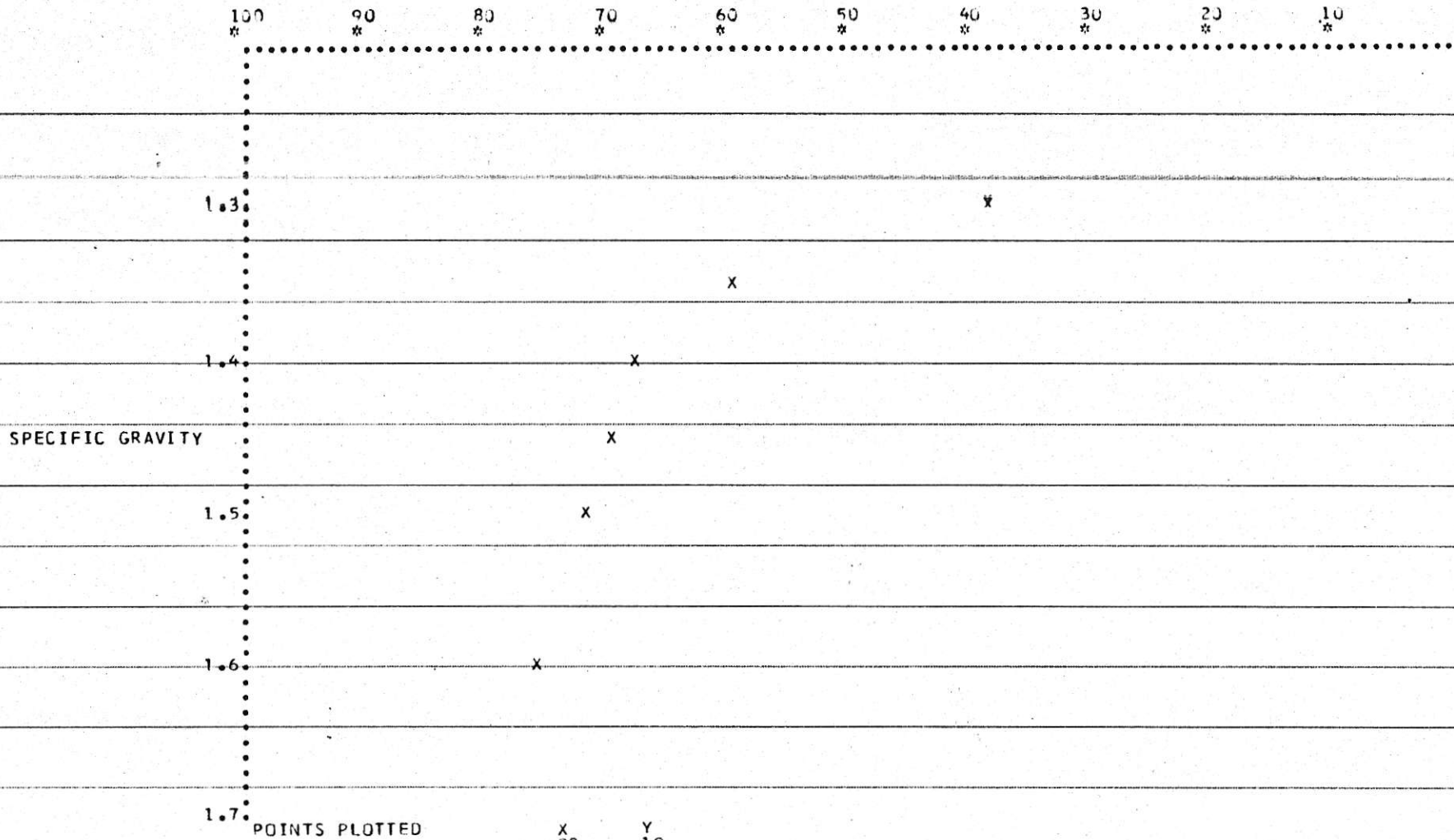


ASH PERCENT

POINTS PLOTTED

X	Y
38	2
59	3
67	4
69	4
71	4
75	5
99	21

CUMULATIVE FLOATS WEIGHT PERCENT



POINTS PLOTTED

X	Y
38	10
59	15
67	20
69	25
71	30
75	40

COMPO NUMBER- W053

DRILL HOLE NUMBER- 1754

SEAM NUMBER- (3) 38640-643

## FLOTATION RESULTS

PRODUCT	KEROSENE 0.90 WEIGHT (GMS)	WEIGHT %	FROTHER 9.00 ASSAY		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	285.	87.7	9.6	7.0	49.1	95.7
TAILS	40.	12.3	70.8	0.0	50.9	4.3
CALC. HEAD	325.	100.0	17.1		100.0	100.0

TABLE 1

## WASHABILITY CURVE CALCULATIONS FOR (+20MESH) FRACTION

SG	WT. (GMS.)	WT. %	CUM.WT. %	FRACTION ASH %	ASH WT. OF TOT.	CUM.WT. %	CUM.FLTS. ASH	SINKS WT. %	ASH	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	1766.	39.68	39.68	3.00	1.19	1.19	3.00	27.98		60.32	46.38	3.00	19.84	7.9
1.30-1.35	504.	11.32	51.00	8.20	0.93	2.12	4.15	27.05		49.00	55.20	8.20	45.34	4.0
1.35-1.40	284.	6.38	57.38	13.40	0.85	2.97	5.18	26.19		42.62	61.46	13.40	54.19	2.0
1.40-1.45	173.	3.89	61.27	18.30	0.71	3.69	6.01	25.48		38.73	65.79	18.30	59.32	1.5
1.45-1.50	104.	2.34	63.60	21.60	0.50	4.19	6.59	24.98		36.40	68.63	21.60	62.44	1.5
1.50-1.60	87.	1.95	65.56	30.40	0.59	4.78	7.30	24.38		34.44	70.80	30.40	64.58	1.0
1.60 SINK	1533.	34.44	100.00	70.80	24.38	29.17	29.17	0.0		0.00	0.0	70.80	82.78	0.0

## FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAP	RECOVERY A	AND ASH R	CALCULATIONS		FRAI	FRI	AP
				FR	FAR			
0.0597	0.0057	4.0	49.7	0.4636	0.0185	0.0243	.523	4.6
0.0597	0.0057	6.0	61.7	0.5702	0.0342	0.0399	.630	6.3
0.0597	0.0057	8.0	67.4	0.6285	0.0503	0.0560	.688	8.1
0.0597	0.0057	10.0	72.5	0.6758	0.0676	0.0733	.735	10.0
0.0597	0.0057	12.0	77.7	0.7192	0.0863	0.0920	.779	11.8
0.0597	0.0057	14.0	81.4	0.7588	0.1062	0.1120	.818	13.7
0.0597	0.0057	16.0	85.2	0.7944	0.1271	0.1328	.854	15.6
0.0597	0.0057	18.0	88.6	0.8262	0.1487	0.1544	.886	17.4
0.0597	0.0057	20.0	91.6	0.8540	0.1708	0.1765	.914	19.3

COMPO NUMBER- 253

DRILL HOLE NUMBER- 1754

SEAM NUMBER- 3161-142

## DATA

## SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MESH	4451.	93.2	29.2
+28MESH	325.	6.8	17.1
FEED	4776.	100.0	28.3

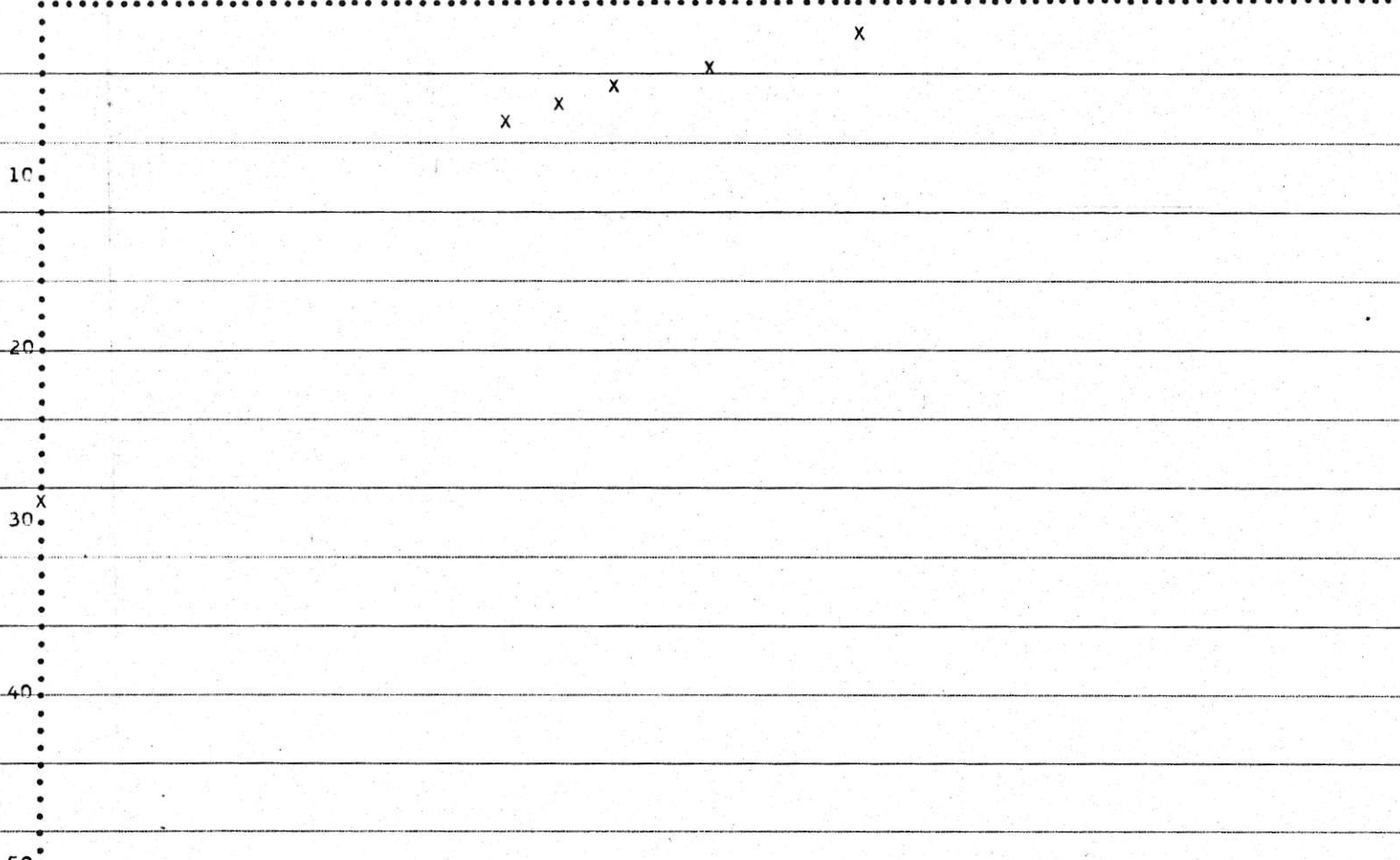
TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	9.60	87.69		5.97	8.54
PLUS 28	8.42	68.54	+1.60	63.88	91.46
COMBINED	8.50	69.84		69.84	100.00
FLOTATION	9.60	87.69		5.97	8.39
PLUS 28	8.96	69.92	+1.60	65.16	91.61
COMBINED	9.00	71.13		71.13	100.00
FLOTATION	9.60	87.69		5.97	8.24
PLUS 28	9.49	71.27	+1.60	66.42	91.76
COMBINED	9.50	72.39		72.39	100.00
FLOTATION	9.60	87.69		5.97	8.11
PLUS 28	10.03	72.59	+1.60	67.65	91.89
COMBINED	10.00	73.62		73.62	100.00



CUMULATIVE FLOATS WEIGHT PERCENT

100\* 90\* 80\* 70\* 60\* 50\* 40\* 30\* 20\* 10\*



ASH PERCENT

POINTS PLOTTED

X	Y
39	2
50	4
57	5
61	6
63	6
65	7
99	29

CUMULATIVE FLOATS WEIGHT PERCENT

100\* 90\* 80\* 70\* 60\* 50\* 40\* 30\* 20\* 10\*

CUMULATIVE FLOATS WEIGHT PERCENT

100 \* 90 \* 80 \* 70 \* 60 \* 50 \* 40 \* 30 \* 20 \* 10 \*



1.3

X

X

1.4

X

SPECIFIC GRAVITY

X

1.5

X

1.6

X

1.7

POINTS PLOTTED

X	Y
39	10
50	15
57	20
61	25
63	30
65	40

COMPO NUMBER- W052

DRILL HOLE NUMBER- 1754

SEAM NUMBER- 14L 3353-634

## FLotation RESULTS

KEROSENE 0.90 FROTHER 0.20

PRODUCT	WEIGHT (GMS)	WEIGHT %	ASSAY		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	266.	81.6	11.7	7.5	40.2	94.5
TAILS	60.	18.4	77.2	0.0	59.8	5.5
CALC. HEAD	326.	100.0	23.8		100.0	100.0

TABLE 1

## WASHABILITY CURVE CALCULATIONS FOR (+28MFSH) FRACTION

SG	WT. (GMS.)	WT. %	CUM.WT. %	FRACTION ASH %	ASH WT. OF TOT.	CUM.WT. %	CUM.FLTS. ASH	SINKS WT. %	ASH	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	1873.	47.89	42.89	3.00	1.29	1.29	3.00	32.89		57.11	57.59	3.00	21.44	8.0
1.30-1.35	289.	6.62	49.51	8.80	0.58	1.87	3.78	32.31		50.49	63.98	8.80	46.20	7.0
1.35-1.40	129.	2.95	52.46	14.00	0.41	2.28	4.35	31.89		47.54	67.09	14.00	50.98	5.5
1.40-1.45	83.	1.90	54.36	18.00	0.34	2.62	4.83	31.55		45.64	69.13	18.00	53.41	3.0
1.45-1.50	58.	1.33	55.69	21.30	0.28	2.91	5.22	31.27		44.31	70.57	21.30	55.03	2.0
1.50-1.60	65.	1.49	57.18	29.30	0.44	3.34	5.85	30.83		42.82	72.00	29.30	56.43	1.5
1.60 SINK	1870.	42.82	100.00	72.00	30.83	34.17	34.17	0.0		0.00	0.0	72.00	78.59	0.5

## FOR OPTIMUM RECOVERIES

TABLE 2

		RECOVERY AND ASH CALCULATIONS							
FFRF	FFRFAF	A	R	FR	FAR	FRAI	FRI	AP	
0.0567	0.0066	4.0	50.8	0.4730	0.0189	0.0256	.530	4.8	
0.0567	0.0066	6.0	57.5	0.5354	0.0321	0.0388	.592	6.5	
0.0567	0.0066	8.0	62.1	0.5780	0.0462	0.0529	.635	8.3	
0.0567	0.0066	10.0	66.4	0.6183	0.0618	0.0685	.675	10.1	
0.0567	0.0066	12.0	70.5	0.6565	0.0788	0.0854	.713	12.0	
0.0567	0.0066	14.0	74.4	0.6924	0.0969	0.1036	.749	13.8	
0.0567	0.0066	16.0	78.0	0.7261	0.1167	0.1228	.783	15.7	
0.0567	0.0066	18.0	81.4	0.7575	0.1364	0.1430	.814	17.6	
0.0567	0.0066	20.0	84.6	0.7868	0.1574	0.1640	.843	19.4	

COMPO NUMBER- W052

DRILL HOLE NUMBER- 1754

SEAM NUMBER- 14L 32633-634

DATA  
SIZE DISTRIBUTION

COMPO NUMBER- W052

DRILL HOLE NUMBER- 1754

SEAM NUMBER- 146 35633-634

## DATA

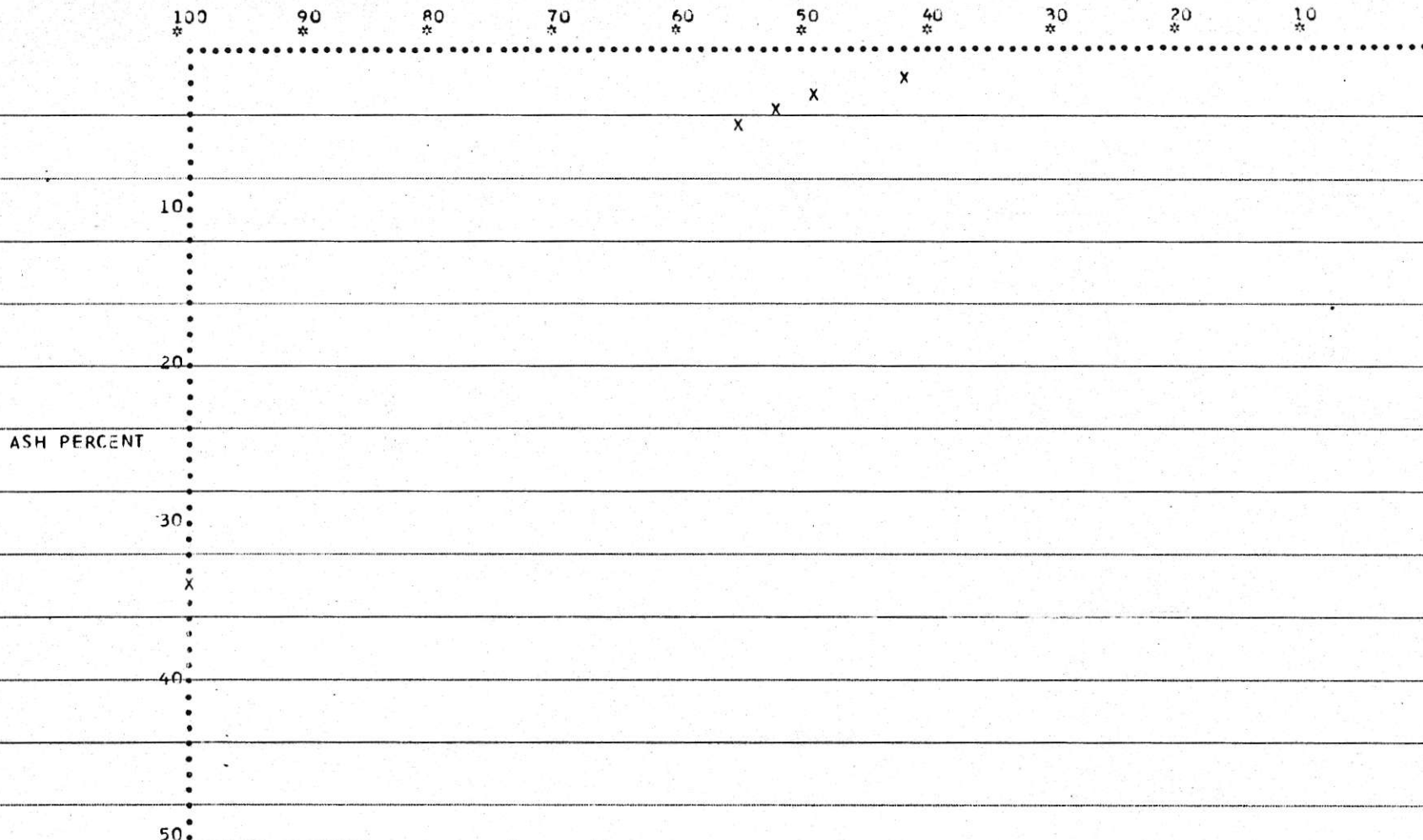
## SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MESH	4367.	93.1	34.7
-28MESH	326.	8.9	23.8
FEED	4693.	100.0	33.5

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	11.70	81.60		5.67	8.86
PLUS 28	8.26	62.69	+1.60	58.34	91.14
COMBINED	8.50	64.00		64.00	100.00
FLOTATION	11.70	81.60		5.67	8.71
PLUS 28	8.80	63.87	+1.60	59.43	91.29
COMBINED	9.00	65.10		65.10	100.00
FLOTATION	11.70	81.60		5.67	8.56
PLUS 28	9.34	65.03	+1.60	60.52	91.44
COMBINED	9.50	66.18		66.18	100.00
FLOTATION	11.70	81.60		5.67	8.43
PLUS 28	9.87	66.18	+1.60	61.58	91.57
COMBINED	10.00	67.25		67.25	100.00

CUMULATIVE FLOATS WEIGHT PERCENT

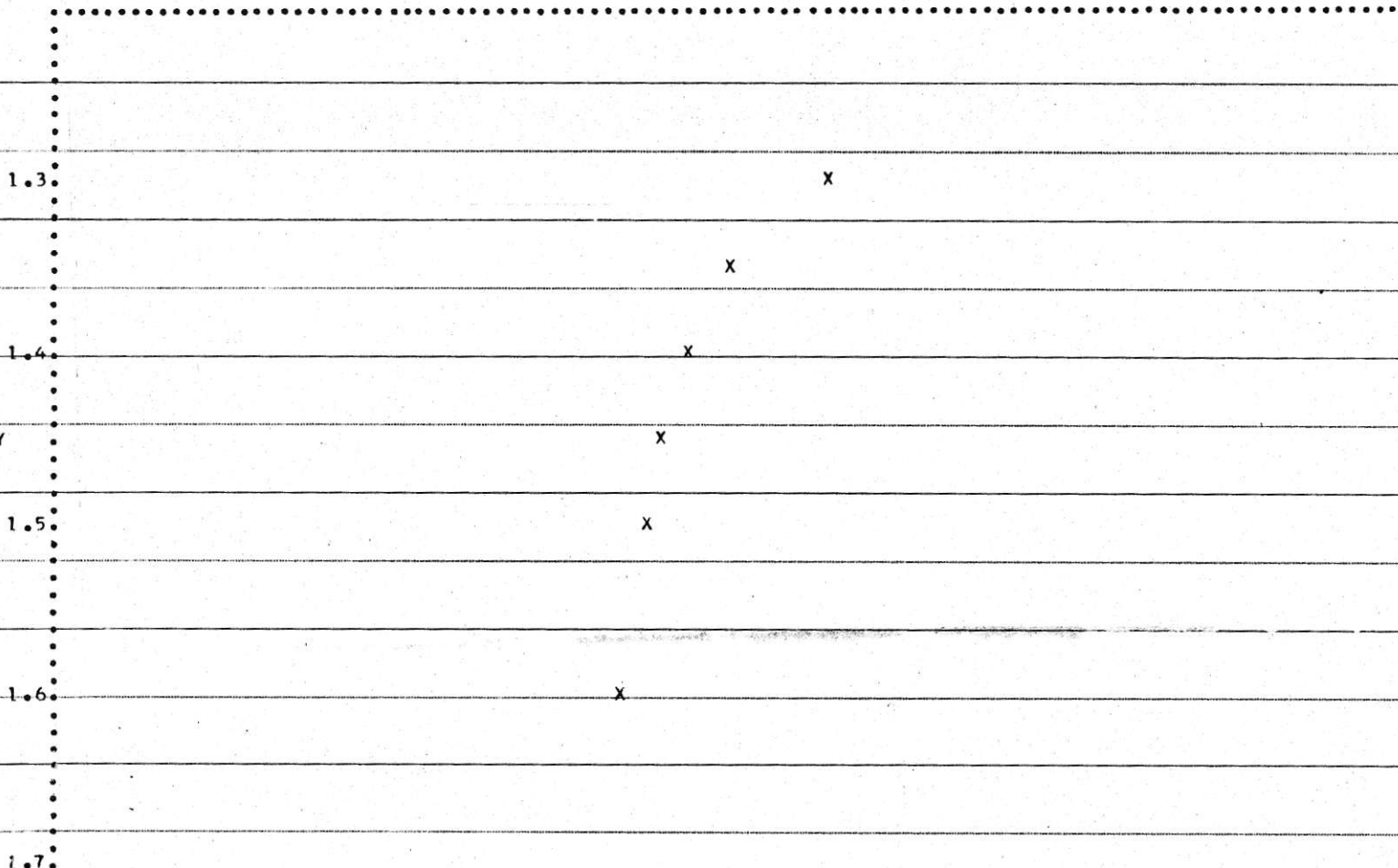


CUMULATIVE FLOATS WEIGHT PERCENT

100 90 80 70 60 50 40 30 20 10

CUMULATIVE FLOATS WEIGHT PERCENT

100 \* 90 \* 80 \* 70 \* 60 \* 50 \* 40 \* 30 \* 20 \* 10 \*



SPECIFIC GRAVITY

1.7 \* POINTS PLOTTED

X	Y
42	10
49	15
52	20
54	25
55	30
57	40



COMPO NUMBER- W068

DRILL HOLE NUMBER- 1754

SEAM NUMBER- 42 41719

FLOTATION RESULTS

KERDSENE 0.90 FROTHER 0.20

PRODUCT	WEIGHT (GMS)	WEIGHT %	ASSAY		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	327.	98.8	10.0	7.0	96.3	99.1
TAILS	4.	1.2	30.9	6.0	3.7	0.9
CALC. HEAD	326.	100.0	10.3		100.0	100.0

TABLE 1

ANALYSIS AND CALCULATIONS FOR (L-28) FRACTION

TABLE 1

## WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

SG	WT. (GMS.)	WT. %	CUM.WT. %	FRACTION ASH %	ASH WT. OF TOT.	CUM.WT. %	CUM.FLTS. ASH	SINKS WT. %	ASH	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	987.	42.23	42.23	3.80	1.60	1.60	3.80	8.24	57.77	14.26	3.80	21.12	7.5	
1.30-1.35	815.	34.87	77.11	7.40	2.58	4.19	5.43	5.66	22.89	24.71	7.40	59.67	7.0	
1.35-1.40	216.	9.24	86.35	12.40	1.15	5.33	6.17	4.51	13.65	33.05	12.40	81.73	5.5	
1.40-1.45	81.	3.47	89.82	16.60	0.58	5.91	6.58	3.94	10.18	38.65	16.60	88.08	5.5	
1.45-1.50	55.	2.35	92.17	22.20	0.52	6.43	6.98	3.41	7.83	43.59	22.20	90.99	4.5	
1.50-1.60	67.	2.87	95.04	31.80	0.91	7.34	7.72	2.50	4.96	50.40	31.80	93.60	3.0	
1.60 SINK	116.	4.96	100.00	50.40	2.50	9.84	9.84	0.0	0.00	0.0	50.40	97.52	1.0	

FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAF	RECOVERY A	AND ASH R	CALCULATIONS		FRAI	FRI	AP
				FR	FAR			
0.1329	0.0133	4.0	47.6	0.4120	0.0165	0.0298	.545	5.5
0.1329	0.0133	6.0	84.5	0.7317	0.0439	0.0572	.865	6.6
0.1329	0.0133	8.0	98.0	0.8306	0.0664	0.0747	.943	8.3

COMPO NUMBER- W068

DRILL HOLE NUMBER- 1754

SEAM NUMBER- R2 41719

DATA

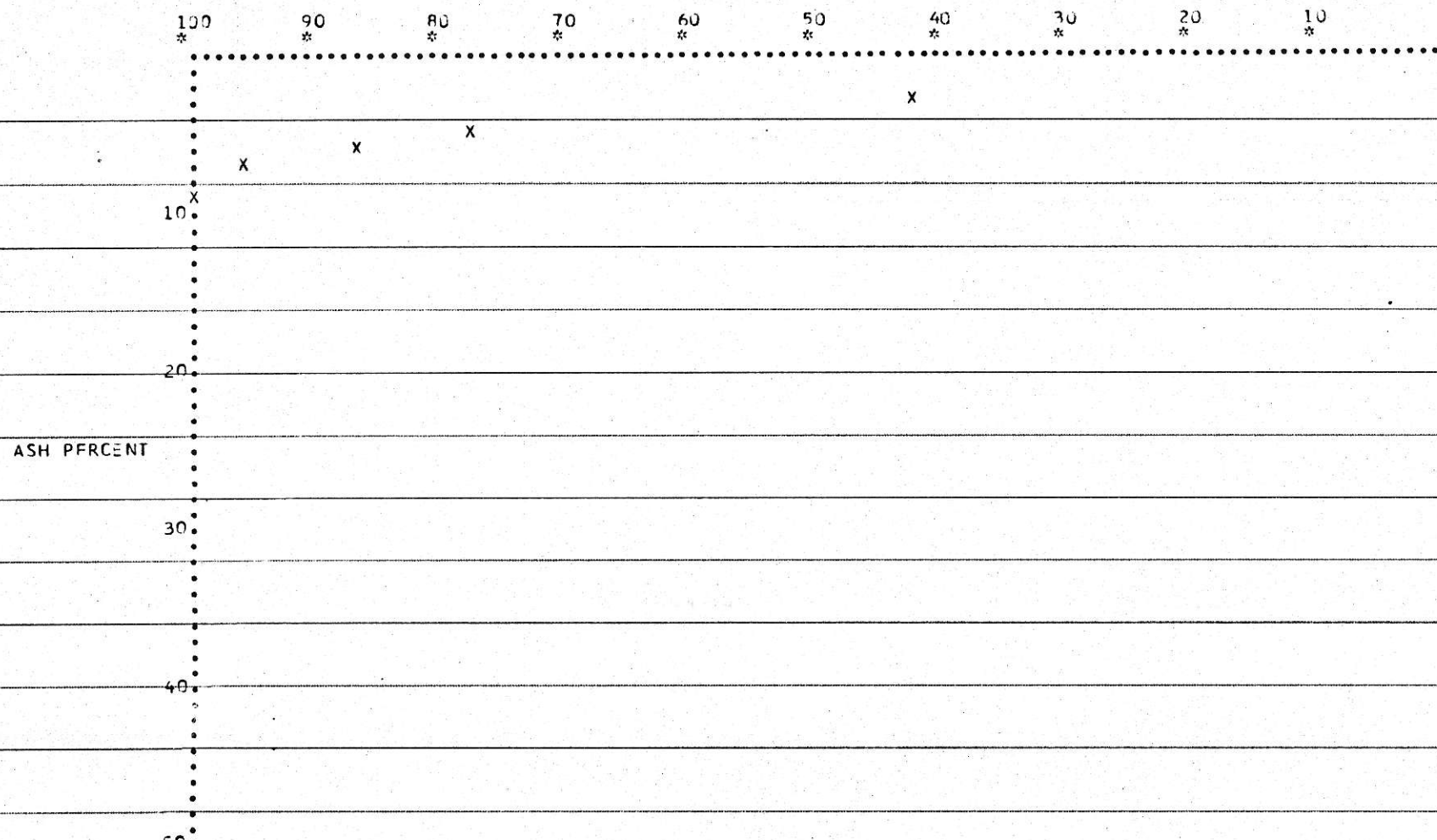
SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MESH	2355.	86.5	9.8
-28MESH	366.	13.5	19.3
FEED	2721.	100.0	9.9

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	10.00	98.77		13.29	13.69
PLUS 28	8.27	96.77	+1.60	83.75	86.31
COMBINED	8.50	97.04		97.04	100.00
FLOTATION	10.00	98.77		13.29	13.51
PLUS 28	8.84	98.26	+1.60	85.04	86.49
COMBINED	9.00	98.33		98.33	100.00
FLOTATION	10.00	98.77		13.29	13.38
PLUS 28	9.42	99.40	+1.60	86.03	86.62
COMBINED	9.50	99.32		99.32	100.00
FLOTATION	10.00	98.77		13.29	13.31
PLUS 28	9.84	100.00	+1.60	86.55	86.69
COMBINED	9.86	99.83		99.83	100.00

CUMULATIVE FLOATS WEIGHT PERCENT



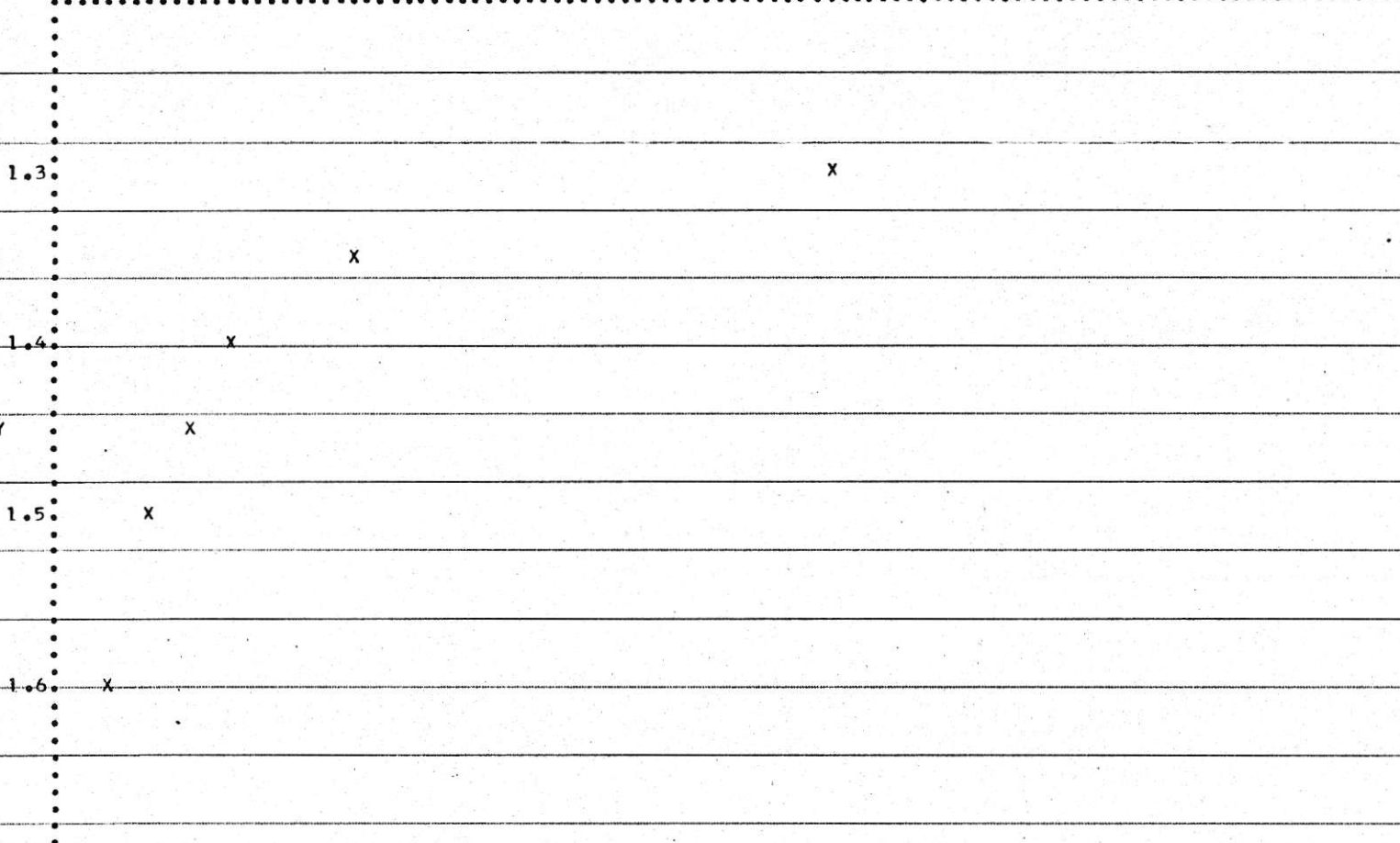
POINTS PLOTTED

X	Y
42	3
77	5
86	6
89	6
92	6
95	7
99	9

CUMULATIVE FLOATS WEIGHT PERCENT

CUMULATIVE FLOATS WEIGHT PERCENT

100\* 90\* 80\* 70\* 60\* 50\* 40\* 30\* 20\* 10\*



SPECIFIC GRAVITY

1.7 POINTS PLOTTED

X	Y
42	10
77	15
86	20
89	25
92	30
95	40

COMPO NUMBER- W062

DRILL HOLE NUMBER- 1754

SEAM NUMBER-

41701

## FLOTATION RESULTS

PRODUCT	KEROSENE 0.75		FROTHER 0.15		DISTRIBUTION	
	WEIGHT (GMS)	WEIGHT %	ASSAY ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	734.	71.3	22.2	3.5	45.6	85.0
TAILS	94.	28.7	65.8	0.0	54.4	15.0
CALC. HEAD	328.	100.0	34.7		100.0	100.0
	KEROSENE 0.90		FROTHER 0.20		/	
PRODUCT	WEIGHT (GMS)	WEIGHT %	ASSAY ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	164.	50.3	18.4	3.0	26.2	63.5
TAILS	162.	49.7	52.5	1.0	73.8	36.5
CALC. HEAD	326.	100.0	35.3		100.0	100.0

TABLE 1

## WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

SG	WT. (GMS.)	WT. %	CUM.WT. %	FRACTION ASH %	ASH WT. OF TOT.	CUM.WT. %	CUM.FLTS. ASH	SINKS WT. %	ASH	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	95.	3.90	3.90	2.80	0.11	0.11	2.80	58.03		96.10	60.39	2.80	1.95	8.0
1.30-1.35	91.	3.74	7.64	6.00	0.22	0.33	4.37	57.81		92.36	62.59	6.00	5.77	6.5
1.35-1.40	45.	1.85	9.49	10.90	0.20	0.54	5.64	57.60		90.51	63.65	10.90	8.57	2.5
1.40-1.45	33.	1.36	10.85	15.50	0.21	0.75	6.87	57.39		89.15	64.38	15.50	10.17	1.5
1.45-1.50	19.	0.78	11.63	21.00	0.16	0.91	7.82	57.23		88.37	64.76	21.00	11.24	1.0
1.50-1.60	25.	1.03	12.66	27.70	0.28	1.19	9.43	56.95		87.34	65.20	27.70	12.15	1.0
1.60 SINK	2125.	87.34	100.00	65.20	56.95	58.14	58.14	0.0		0.00	0.0	65.20	56.33	0.0



## FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAF	RECOVERY AND ASH CALCULATIONS				FRAI	FRI	AP
		A	R	FR	FAR			
0.1511	0.0336	4.0	6.9	0.0545	0.0022	0.0357	.206	17.4
0.1511	0.0336	6.0	9.9	0.0783	0.0047	0.0383	.229	16.7
0.1511	0.0336	8.0	11.8	0.0926	0.0074	0.0410	.244	16.8
0.1511	0.0336	10.0	13.0	0.1028	0.0103	0.0438	.254	17.3
0.1511	0.0336	12.0	14.5	0.1146	0.0138	0.0473	.266	17.8
0.1511	0.0336	14.0	16.2	0.1278	0.0179	0.0514	.279	18.4
0.1511	0.0336	16.0	18.1	0.1425	0.0228	0.0563	.294	19.2
0.1511	0.0336	18.0	20.1	0.1586	0.0285	0.0621	.310	20.0
0.1511	0.0336	20.0	22.3	0.1761	0.0352	0.0688	.327	21.0

COMPO NUMBER- W262

DRILL HOLE NUMBER- 1754

SEAM NUMBER-

41701

## DATA

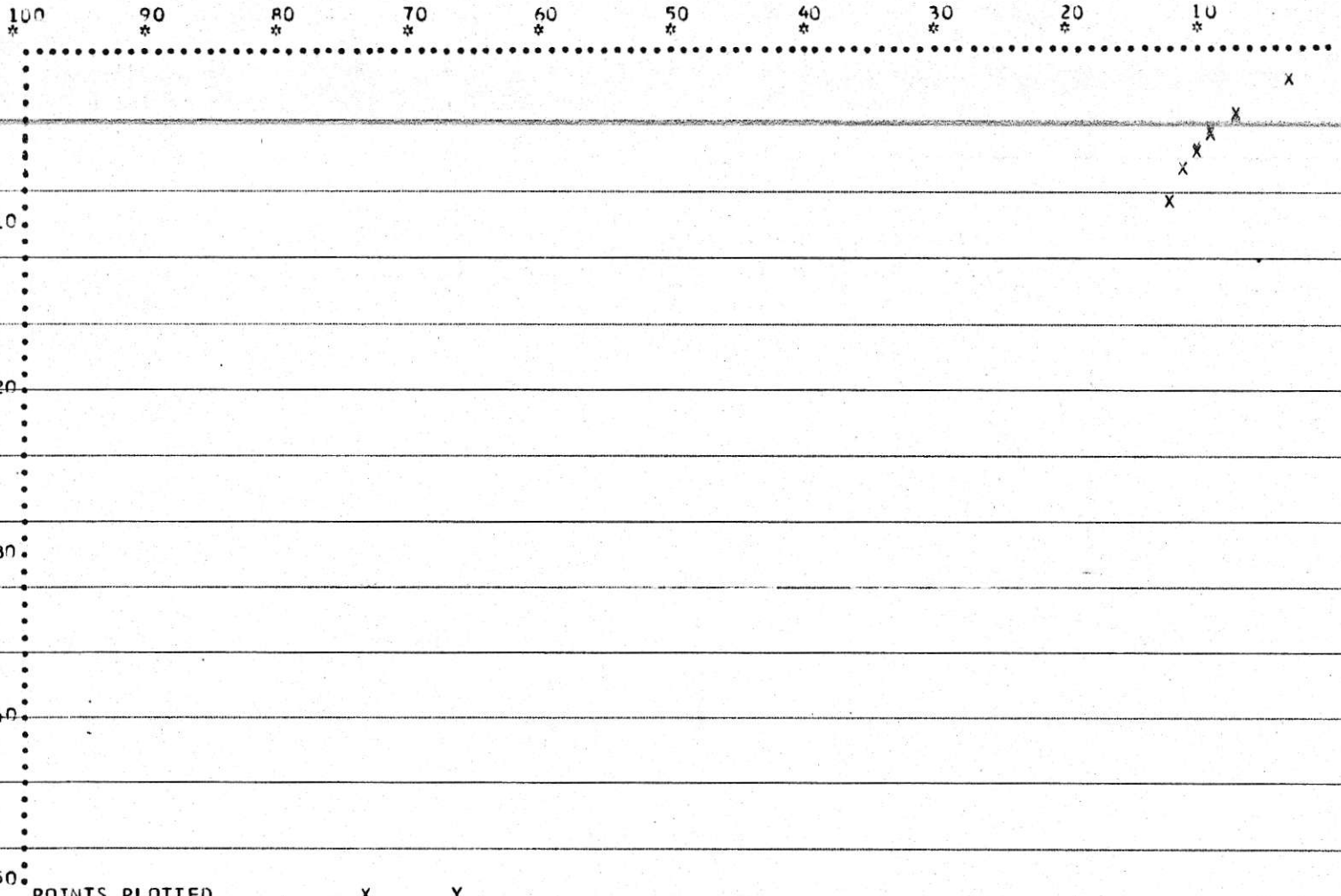
## SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MESH	2433.	78.8	58.1
-28MESH	654.	21.2	35.3
FEED	3087.	100.0	53.3

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	22.20	71.34		15.11	69.57
PLUS 28	4.82	8.39	1.37	6.61	30.43
COMBINED	8.50	21.73		21.73	100.00
FLOTATION	22.20	71.34		15.11	67.41
PLUS 28	5.45	9.27	1.39	7.31	32.59
COMBINED	9.00	22.42		22.42	100.00
FLOTATION	22.20	71.34		15.11	65.65
PLUS 28	6.09	10.03	1.42	7.91	34.35
COMBINED	9.50	23.02		23.02	100.00
FLOTATION	22.20	71.34		15.11	64.17
PLUS 28	6.72	10.71	1.44	8.44	35.83
COMBINED	10.00	23.55		23.55	100.00

CUMULATIVE FLOATS WEIGHT PERCENT



ASH PERCENT

POINTS PLOTTED

X	3	Y	2
	7		4
	9		5
	10		6
	11		7
	12		9
	99		58

CUMULATIVE FLOATS WEIGHT PERCENT

100 \* 90 \* 80 \* 70 \* 60 \* 50 \* 40 \* 30 \* 20 \* 10 \*

SPECIFIC GRAVITY

1.3

x

1.4

x

x

1.5

x

1.6

x

1.7

POINTS PLOTTED

X	Y
3	10
7	15
9	20
10	25
11	30
12	40

COMPO NUMBER- W063

DRILL HOLE NUMBER- 1754

SEAM NUMBER-

41702

## FLOTATION RESULTS

PRODUCT	KEROSENE 0.75		FROTHER 0.15		DISTRIBUTION	
	WEIGHT (GMS)	WEIGHT %	ASSAY ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	308.	96.0	5.6	7.0	77.6	97.3
TAILS	13.	4.0	38.2	1.0	22.4	2.7
CALC. HEAD	321.	100.0	6.9		100.0	100.0

PRODUCT	KEROSENE 0.90		FROTHER 0.20		DISTRIBUTION	
	WEIGHT (GMS)	WEIGHT %	ASSAY ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	303.	94.1	5.1	7.5	72.0	95.7
TAILS	19.	5.9	31.7	1.0	28.0	4.3
CALC. HEAD	322.	100.0	6.7		100.0	100.0

TABLE I

## WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

SG	WT. (GMS.)	WT. %	CUM.WT. %	FRACTION ASH %	ASH WT. OF TOT.	CUM.WT. %	CUM.FLTS. ASH	SINKS WT. %	ASH	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	944.	34.38	34.38	2.30	0.79	0.79	2.30	21.59		65.62	32.90	2.30	17.19	8.0
1.30-1.35	609.	22.18	56.55	5.90	1.31	2.10	3.71	20.28		43.45	46.69	5.90	45.47	2.5
1.35-1.40	200.	7.28	63.84	10.70	0.78	2.88	4.51	19.50		36.16	53.94	10.70	60.20	2.0
1.40-1.45	149.	5.43	69.26	14.40	0.78	3.66	5.28	18.72		30.74	60.92	14.40	66.55	1.0
1.45-1.50	66.	2.40	71.67	20.30	0.49	4.15	5.79	18.24		28.33	64.36	20.30	70.47	1.0
1.50-1.60	95.	3.46	75.13	26.00	0.90	5.05	6.72	17.34		24.87	69.70	26.00	73.40	1.0
1.60 SINK	683.	24.87	100.00	69.70	17.34	22.38	22.38	0.0		0.00	0.0	69.70	87.56	0.5

## FOR OPTIMUM RECOVERIES

TABLE 2

RECOVERY AND ASH CALCULATIONS								
FFRF	FFRFAP	A	R	FR	FAR	FRAI	FRI	AP
0.1785	0.0091	4.0	59.5	0.4822	0.0193	0.0284	.661	4.3
0.1785	0.0091	6.0	72.5	0.5876	0.0353	0.0444	.766	5.8
0.1785	0.0091	8.0	79.5	0.6444	0.0516	0.0607	.823	7.4
0.1785	0.0091	10.0	85.6	0.6932	0.0693	0.0784	.872	9.0
0.1785	0.0091	12.0	90.6	0.7337	0.0880	0.0971	.912	10.6
0.1785	0.0091	14.0	94.5	0.7659	0.1072	0.1163	.944	12.3
0.1785	0.0091	16.0	97.5	0.7897	0.1264	0.1355	.968	14.0
0.1785	0.0091	18.0	99.4	0.8053	0.1450	0.1541	.984	15.7
0.1785	0.0091	20.0	***	0.8125	0.1625	0.1716	.991	17.3

COMPO NUMBER- W763

DRILL HOLE NUMBER- 1754

SEAM NUMBER-

41702

## DATA

## SIZE DISTRIBUTION

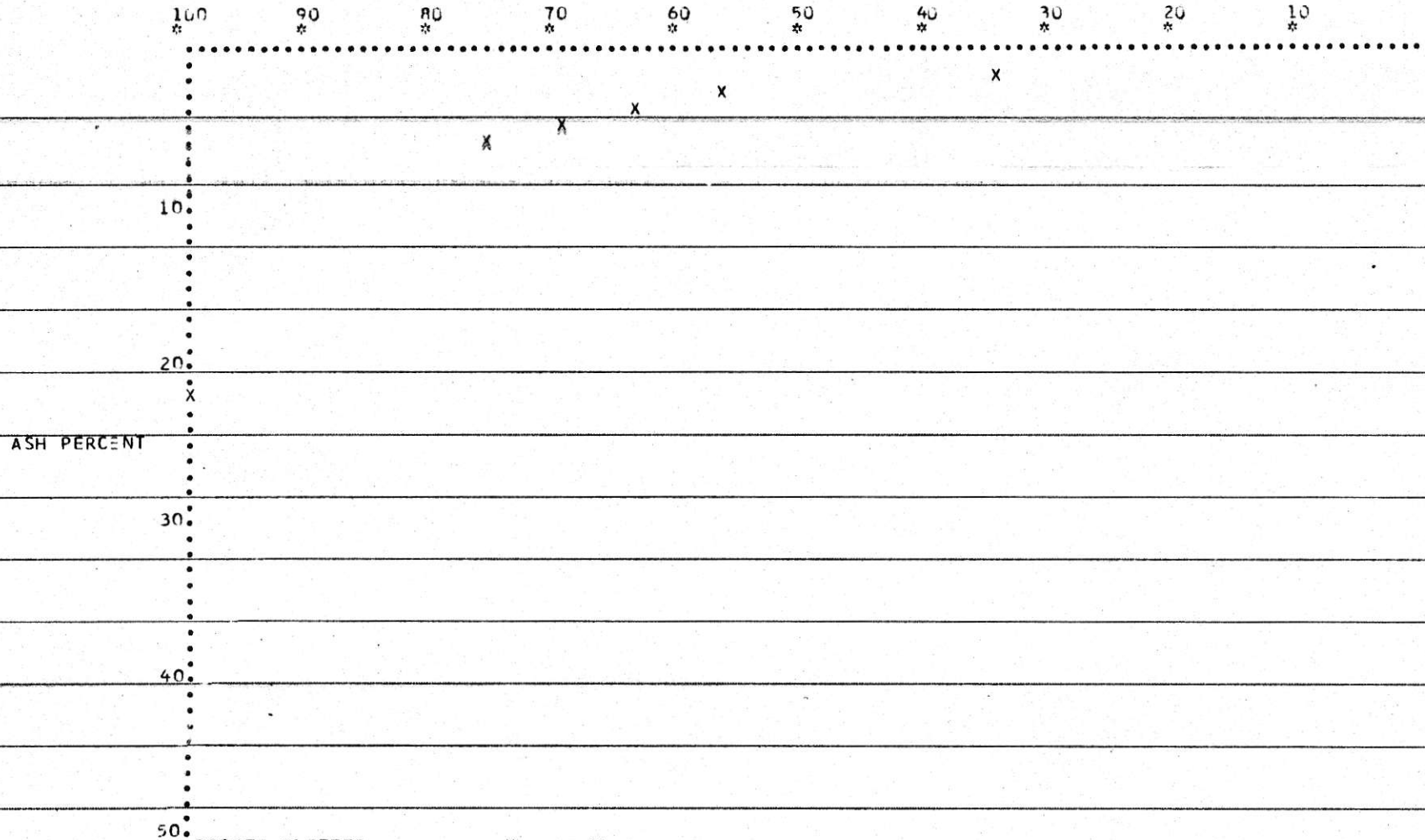
SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MESH	2746.	81.0	27.4
-28MESH	643.	19.0	6.7
FEED	3389.	100.0	19.4

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	5.10	94.10		17.85	20.87
PLUS 28	9.30	83.55	+1.60	67.70	79.13
COMBINED	8.50	85.55		85.55	100.00
FLOTATION	5.10	94.10		17.85	20.53
PLUS 28	9.91	85.31	+1.60	69.13	79.47
COMBINED	9.00	86.98		86.98	100.00
FLOTATION	5.10	94.10		17.85	20.21
PLUS 28	10.53	86.98	+1.60	70.48	79.79
COMBINED	9.50	88.33		88.33	100.00
FLOTATION	5.10	94.10		17.85	19.93
PLUS 28	11.15	88.55	+1.60	71.75	80.07
COMBINED	10.00	89.60		89.60	100.00



CUMULATIVE FLOATS WEIGHT PERCENT

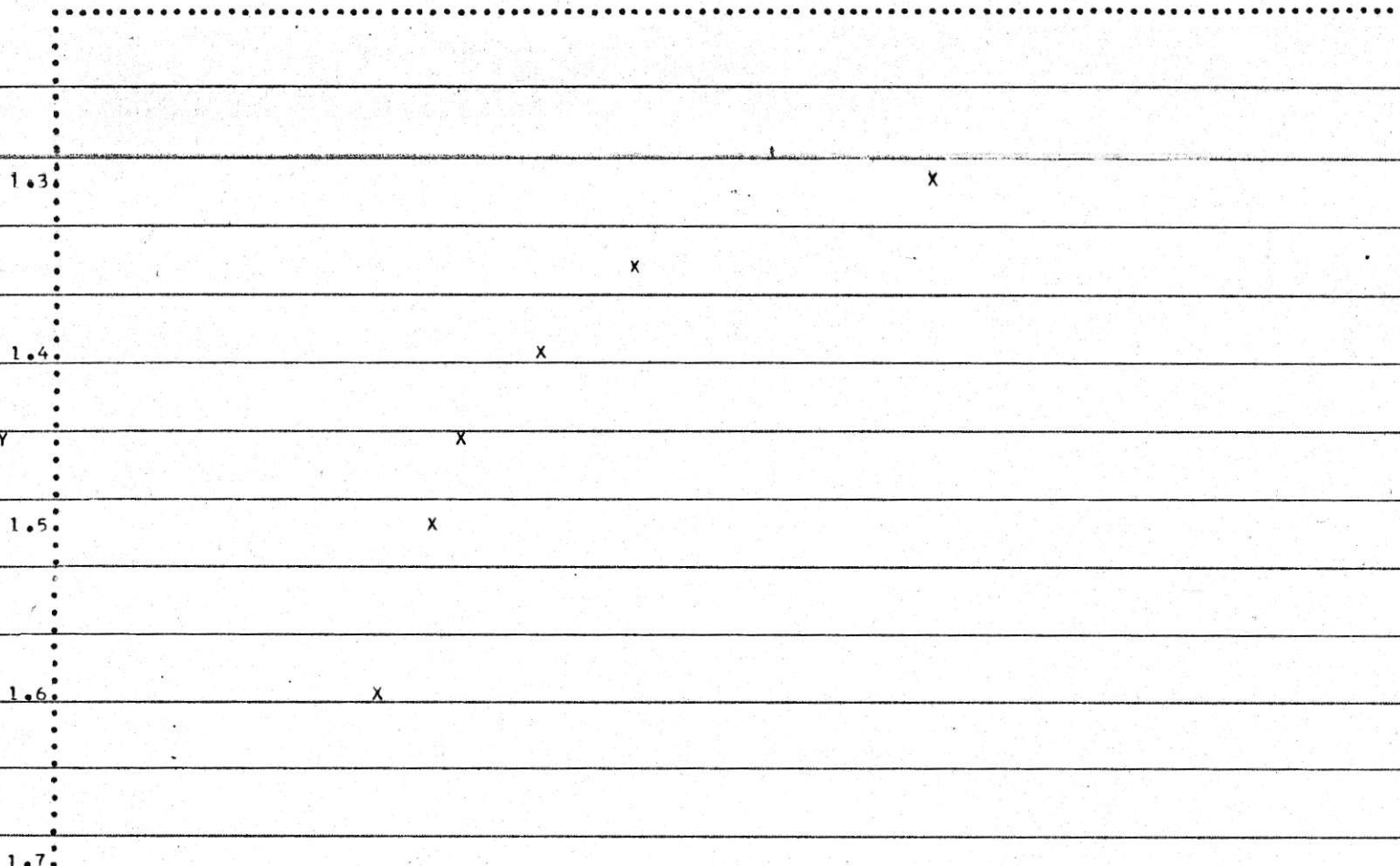


POINTS PLOTTED

X	Y
34	2
56	3
63	4
69	5
71	5
75	6
99	22

CUMULATIVE FLOATS WEIGHT PERCENT

100 \* 90 \* 80 \* 70 \* 60 \* 50 \* 40 \* 30 \* 20 \* 10 \*



SPECIFIC GRAVITY

1.7 POINTS PLOTTED

X	Y
34	10
56	15
63	20
69	25
71	30
75	40

COMPO NUMBER- W065

DRILL HOLE NUMBER- 1754

SEAM NUMBER- 4175-708

FLOTATION RESULTS

PRODUCT	WEIGHT (GMS)	WEIGHT %	ASSAY		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	315.	97.2	7.9	5.5	83.0	98.7
TAILS	9.	2.8	56.8	0.0	17.0	1.3
CALC. HEAD	324.	100.0	9.3		100.0	100.0

TABLE 1

WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

TABLE 1

## WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

SG	WT. (GMS.)	WT. %	CUM.WT. %	FRACTION ASH %	ASH WT. OF TOT.	CUM.WT. %	CUM.FLTS. ASH	SINKS WT. %	ASH	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	1030.	23.36	23.36	2.20	0.51	0.51	2.20	15.15		76.64	19.76	2.20	11.68	7.0
1.30-1.35	1308.	29.67	53.03	6.00	1.76	2.29	4.33	13.37		46.97	78.45	6.00	38.19	3.0
1.35-1.40	504.	11.43	64.46	10.00	1.14	3.44	5.33	12.22		35.54	34.39	10.00	58.74	1.5
1.40-1.45	371.	8.41	72.87	14.40	1.21	4.65	6.38	11.01		27.13	40.59	14.40	68.67	1.5
1.45-1.50	263.	5.97	78.84	19.20	1.15	5.79	7.35	9.87		21.16	46.62	19.20	75.86	1.5
1.50-1.60	289.	6.55	85.39	24.60	1.61	7.41	8.67	8.25		14.61	56.50	24.60	82.12	1.0
1.60 SINK	644.	14.61	100.00	56.50	8.25	15.66	15.66	0.00		0.00	0.0	56.50	92.70	0.5

FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAF	RECOVERY AND ASH CALCULATIONS				FRAI	FRI	AP
		A	R	FR	FAR			
0.0666	0.0053	4.0	49.0	0.4562	0.0182	0.0235	.523	4.5
0.0666	0.0053	6.0	70.2	0.6535	0.0392	0.0445	.720	6.2
0.0666	0.0053	8.0	82.3	0.7663	0.0613	0.0526	.833	8.0
0.0666	0.0053	10.0	90.8	0.8454	0.0845	0.0898	.912	9.8
0.0666	0.0053	12.0	96.5	0.8993	0.1079	0.1132	.966	11.7
0.0666	0.0053	14.0	99.6	0.9276	0.1299	0.1351	.994	13.6

COMPO NUMBER- W065

DRILL HOLE NUMBER- 1754

SEAM NUMBER-

41706-708

DATA  
SIZE DISTRIBUTION

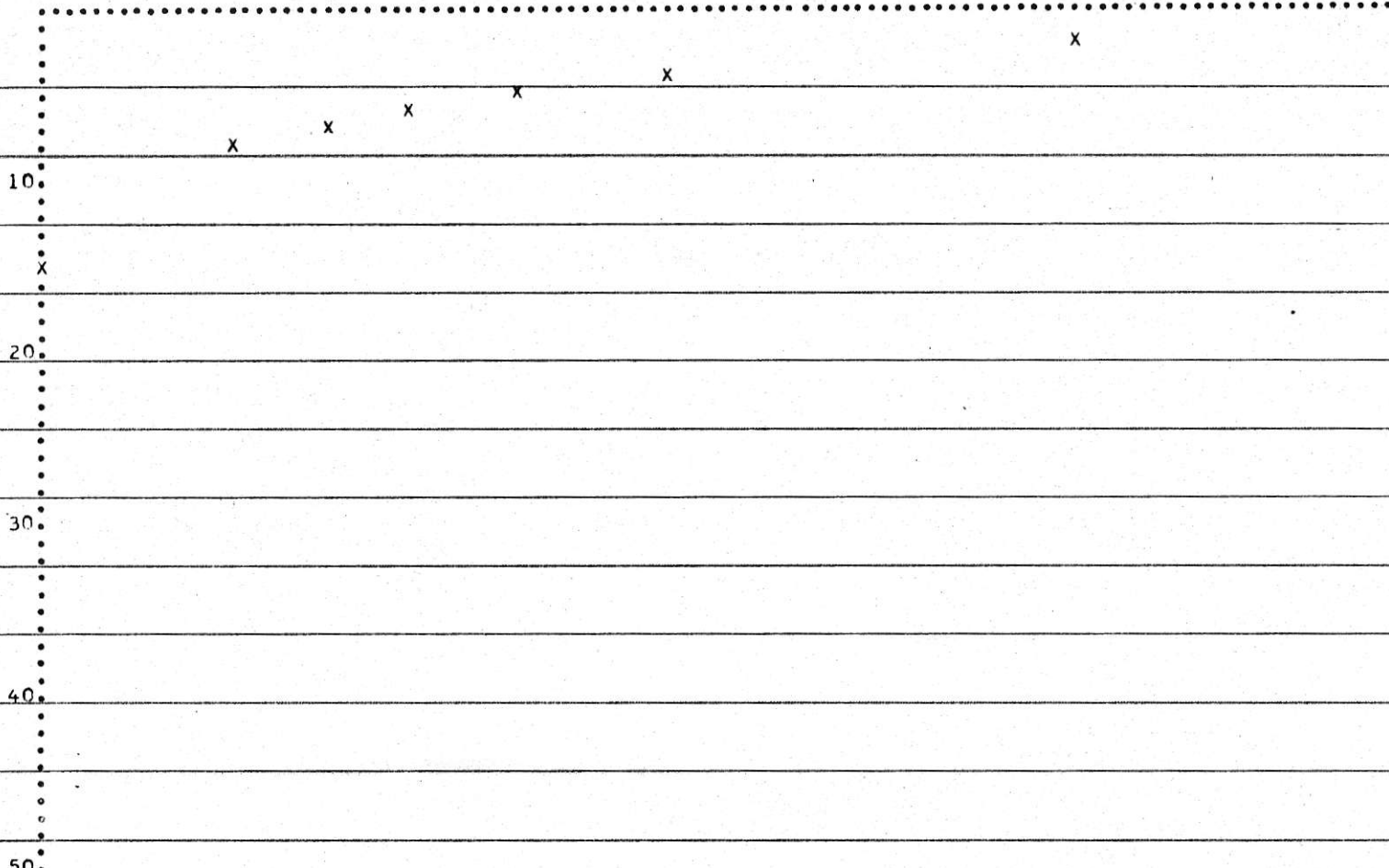
SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MESH	4479.	93.2	15.7
-28MESH	324.	6.8	9.3
FEED	4733.	100.0	15.2

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	7.90	97.22		6.66	7.77
PLUS 28	8.54	84.83	1.59	79.03	92.23
COMBINED	8.50	85.68		85.68	100.00
FLOTATION	7.90	97.22		6.66	7.58
PLUS 28	9.08	87.17	+1.60	81.20	92.42
COMBINED	9.00	87.86		87.86	100.00
FLOTATION	7.90	97.22		6.66	7.41
PLUS 28	9.62	89.33	+1.60	83.22	92.59
COMBINED	9.50	89.87		89.87	100.00
FLOTATION	7.90	97.22		6.66	7.26
PLUS 28	10.15	91.30	+1.60	85.25	92.74
COMBINED	10.00	91.70		91.70	100.00

CUMULATIVE FLOATS WEIGHT PERCENT

100\* 90\* 80\* 70\* 60\* 50\* 40\* 30\* 20\* 10\*



POINTS PLOTTED

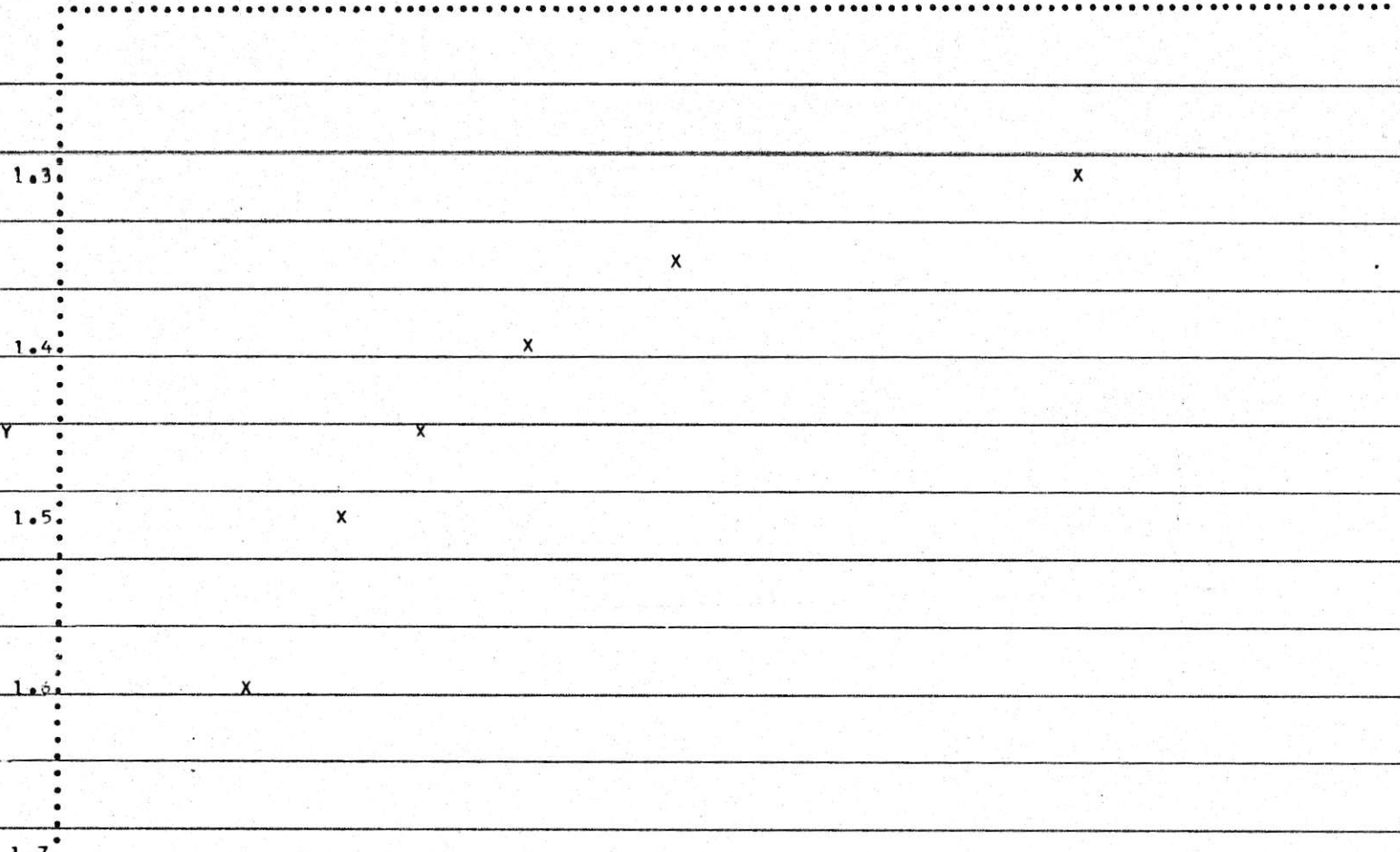
X	Y
23	2
53	4
64	5
72	6
78	7
85	8
99	15

CUMULATIVE FLOATS WEIGHT PERCENT

100 90 80 70 60 50 40 30 20 10

CUMULATIVE FLOATS WEIGHT PERCENT

100\* 90\* 80\* 70\* 60\* 50\* 40\* 30\* 20\* 10\*



SPECIFIC GRAVITY

POINTS PLOTTED

X	Y
23	10
54	15
64	20
72	25
78	30
85	40



COMPO NUMBER- W064

DRILL HOLE NUMBER- 1754

SEAM NUMBER- 41703-705

FLOTATION RESULTS

PRODUCT	KEROSENE 0.90 WEIGHT (GMS)	WEIGHT %	FROTHER 7.20 ASSAY		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	277.	85.0	7.8	3.9	56.3	88.8
TAILS	49.	15.0	34.2	7.5	43.7	11.2
CALC. HEAD	326.	100.0	11.8		100.0	100.0

TABLE 1

## WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

SG	WT. (GMS.)	WT. %	CUM.WT. %	FRACTION ASH %	ASH WT. OF TOT.	CUM.WT. %	CUM.FLTS. ASH	SINKS WT. %	ASH WT. %	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	1259.	34.67	34.67	2.80	0.97	0.97	2.80	24.95	65.33	38.19	2.80	17.34	8.0	
1.30-1.35	608.	16.74	51.42	7.70	1.29	2.26	4.40	23.66	48.58	48.69	7.70	43.05	7.0	
1.35-1.40	292.	8.04	59.46	10.80	0.87	3.13	5.26	22.79	40.54	56.21	10.80	55.44	4.0	
1.40-1.45	189.	5.21	64.67	17.80	0.93	4.06	6.27	21.86	35.33	61.87	17.80	62.06	4.0	
1.45-1.50	108.	2.97	67.64	23.60	0.70	4.76	7.03	21.16	32.36	65.39	23.60	66.15	3.5	
1.50-1.60	164.	4.52	72.16	27.70	1.25	6.01	8.33	19.91	27.84	71.50	27.70	69.90	1.5	
1.60 SINK	1011.	27.84	100.00	71.50	19.91	25.92	25.92	0.00	0.00	0.0	71.50	86.08	1.0	

FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFFAF	RECOVERY AND ASH CALCULATIONS				FRAI	FRI	AP
		A	R	FR	FAR			
0.0700	0.0055	4.0	47.5	0.4359	0.0174	0.0229	.506	4.5
0.0700	0.0055	6.0	63.6	0.5832	0.0350	0.0405	.653	6.2
0.0700	0.0055	8.0	71.1	0.6521	0.0522	0.0576	.722	8.0
0.0700	0.0055	10.0	77.5	0.7111	0.0711	0.0766	.781	9.8
0.0700	0.0055	12.0	83.1	0.7629	0.0915	0.0970	.833	11.6
0.0700	0.0055	14.0	88.0	0.8072	0.1130	0.1185	.877	13.5
0.0700	0.0055	16.0	92.0	0.8441	0.1351	0.1405	.914	15.4
0.0700	0.0055	18.0	95.2	0.8736	0.1573	0.1627	.944	17.2
0.0700	0.0055	20.0	97.6	0.8957	0.1791	0.1846	.966	19.1

COMPO NUMBER- 4764

DRILL HOLE NUMBER- 1754

SEAM NUMBER- 417J3-705

DATA

SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MESH	3631.	91.8	25.9
-28MESH	326.	8.2	11.8
FEED	3957.	100.0	24.8

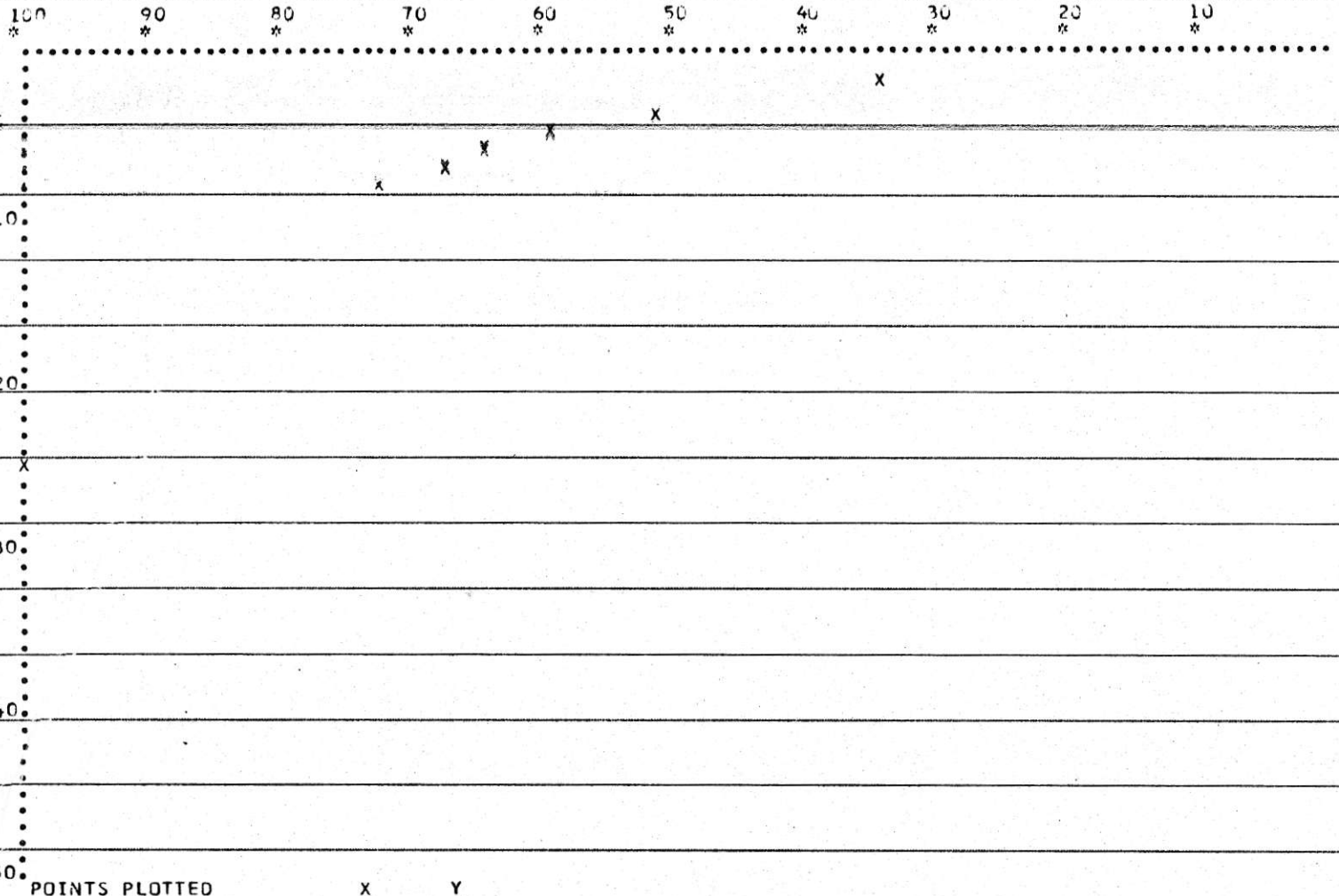
TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	7.80	84.97		7.00	9.47
PLUS 28	8.56	72.94	+1.60	66.93	90.53
COMBINED	8.50	73.93		73.93	100.00
FLOTATION	7.80	84.97		7.00	9.75
PLUS 28	9.11	74.72	+1.60	68.56	90.74
COMBINED	9.00	75.56		75.56	100.00
FLOTATION	7.80	84.97		7.00	9.08
PLUS 28	9.65	76.43	+1.60	70.14	90.92
COMBINED	9.50	77.14		77.14	100.00
FLOTATION	7.80	84.97		7.00	8.90
PLUS 28	10.20	78.09	+1.60	71.66	91.10
COMBINED	10.00	78.66		78.66	100.00

CUMULATIVE FLOATS WEIGHT PERCENT

100 90 80 70 60 50 40 30 20 10 0

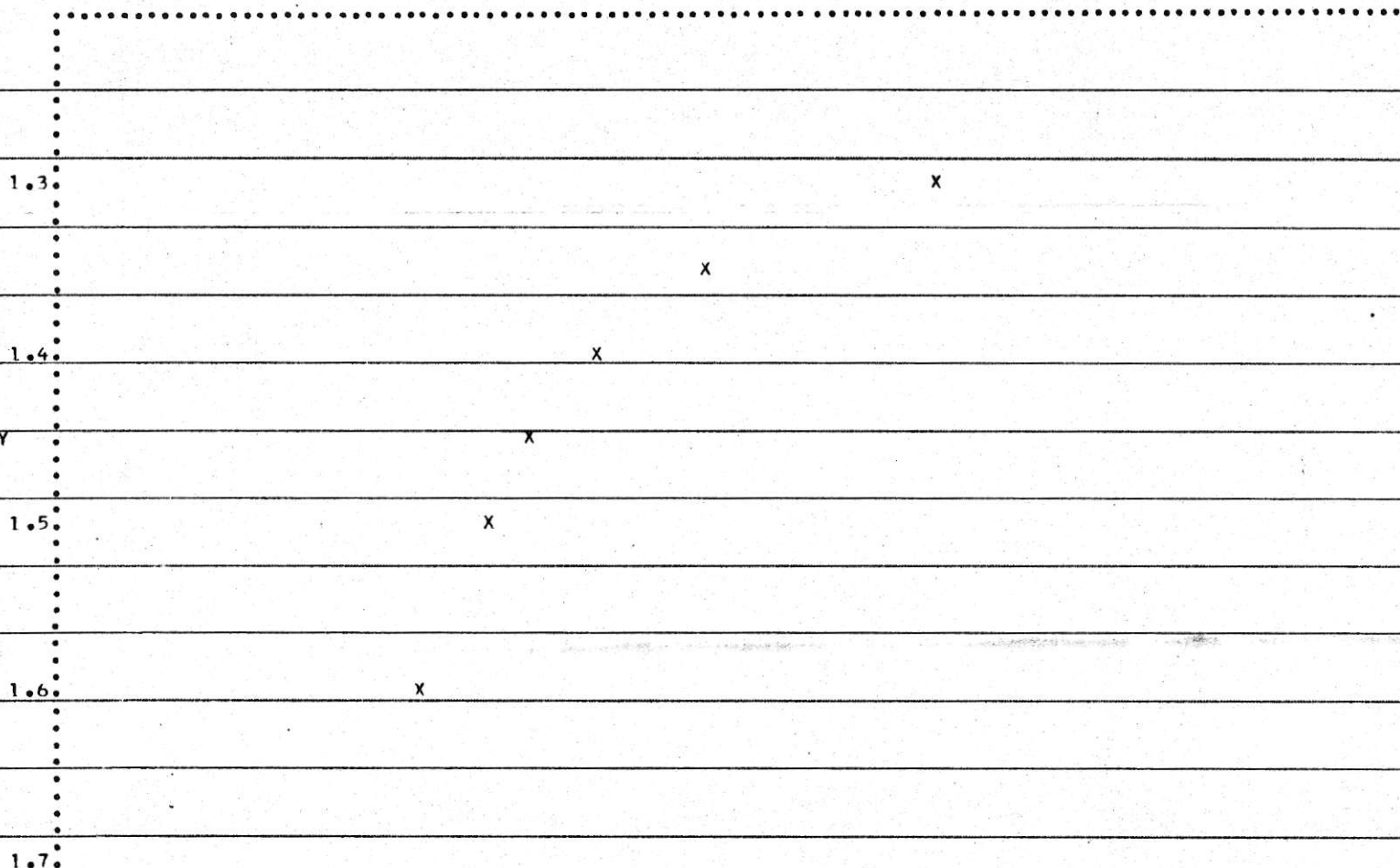
CUMULATIVE FLOATS WEIGHT PERCENT



X	Y
34	2
51	4
59	5
64	6
67	7
72	8
99	25

CUMULATIVE FLOATS WEIGHT PERCENT

100 \* 90 \* 80 \* 70 \* 60 \* 50 \* 40 \* 30 \* 20 \* 10 \*



SPECIFIC GRAVITY

1.7 POINTS PLOTTED

X	Y
34	10
51	15
59	20
64	25
67	30
72	40

COMPO NUMBER- WC67

DRILL HOLE NUMBER- 1754

SEAM NUMBER- *R4* 4171E-718

FLOTATION RESULTS

KEROSENE 0.90 FROTHER 0.20

PRODUCT	WEIGHT (GMS)	WEIGHT %	ASSAY		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	410.	95.7	5.5	7.5	74.9	97.7
TAILS	14.	4.3	40.8	1.0	25.1	2.8
CALC. HEAD	324.	100.0	7.0		100.0	100.0

TABLE 1

WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

TABLE 1

## WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

SG	WT. (GMS.)	WT. %	CUM.WT. %	FRACTION ASH %	ASH WT. OF TOT.	CUM.WT. %	CUM.FLTS. ASH	SINKS WT. %	ASH WT. %	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	1292.	29.50	29.50	2.70	0.80	0.80	2.70	12.43	70.50	17.63	2.70	14.75	8.0	
1.30-1.35	1441.	32.91	62.41	5.80	1.91	2.71	4.33	10.57	37.59	27.98	5.80	45.96	1.5	
1.35-1.40	576.	13.15	75.57	10.10	1.33	4.03	5.34	9.19	24.43	37.61	10.10	68.99	1.0	
1.40-1.45	302.	6.90	82.46	14.50	1.00	5.03	6.10	8.19	17.54	46.70	14.50	79.01	1.0	
1.45-1.50	149.	3.40	85.86	20.40	0.69	5.73	6.67	7.50	14.14	53.03	20.40	84.16	1.0	
1.50-1.60	146.	3.33	89.20	25.90	0.86	6.59	7.39	6.63	10.80	61.40	25.90	87.53	1.0	
1.60 SINK	473.	10.80	100.00	61.40	6.63	13.22	13.22	0.00	0.00	0.00	61.40	94.60	0.5	



FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFREAF	RECOVERY		ASH CALCULATIONS		FRAI	FRI	AP
		A	R	FR	FAR			
0.0659	0.0036	4.0	56.8	0.5292	0.0212	0.0248	.595	4.2
0.0659	0.0036	6.0	81.7	0.7606	0.0456	0.0493	.827	6.0
0.0659	0.0036	8.0	91.7	0.8537	0.0683	0.0719	.920	7.8
<del>0.0659</del>	<del>0.0036</del>	<del>10.0</del>	<del>97.8</del>	<del>0.9184</del>	<del>0.0909</del>	<del>0.0945</del>	<del>.975</del>	<del>9.7</del>
0.0659	0.0036	12.0	99.8	0.9324	0.1119	0.1155	.998	11.8

COMPO NUMBER- W067

DRILL HOLE NUMBER- 1754

SEAM NUMBER- 24 41715-718

## DATA

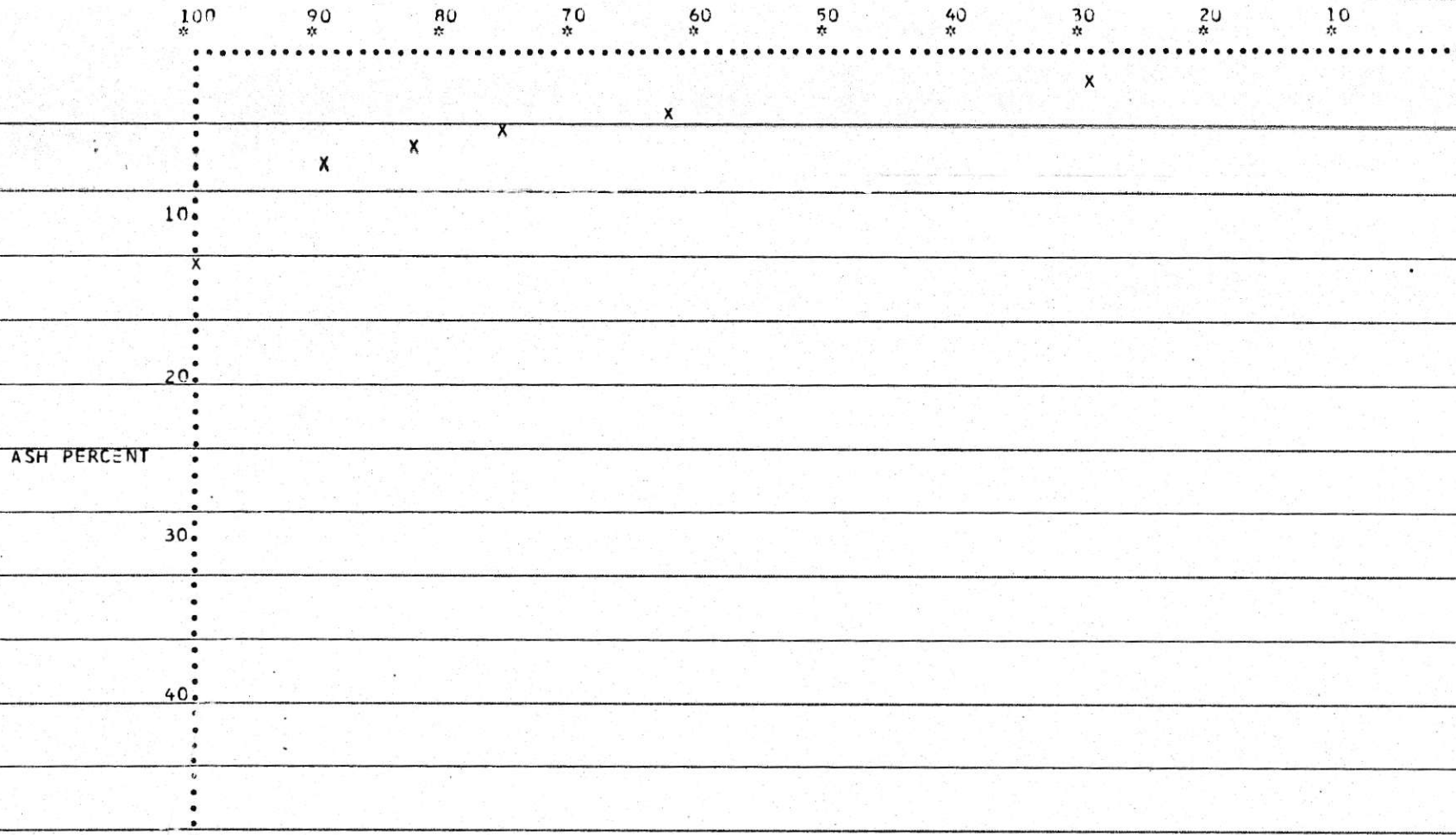
## SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MESH	4379.	93.1	13.2
-28MESH	324.	6.9	7.0
FEED	4703.	100.0	12.8

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	5.50	95.68		6.59	6.99
PLUS 28	8.72	94.22	+1.60	87.73	93.01
COMBINED	8.50	94.32		94.32	100.00
FLOTATION	5.50	95.68		6.59	6.88
PLUS 28	9.26	95.81	+1.60	89.21	93.12
COMBINED	9.00	95.81		95.81	100.00
FLOTATION	5.50	95.68		6.59	6.79
PLUS 28	9.80	97.16	+1.60	90.47	93.21
COMBINED	9.50	97.06		97.06	100.00
FLOTATION	5.50	95.68		6.59	6.72
PLUS 28	10.33	98.27	+1.60	91.50	93.28
COMBINED	10.00	98.09		98.09	100.00

CUMULATIVE FLOATS WEIGHT PERCENT

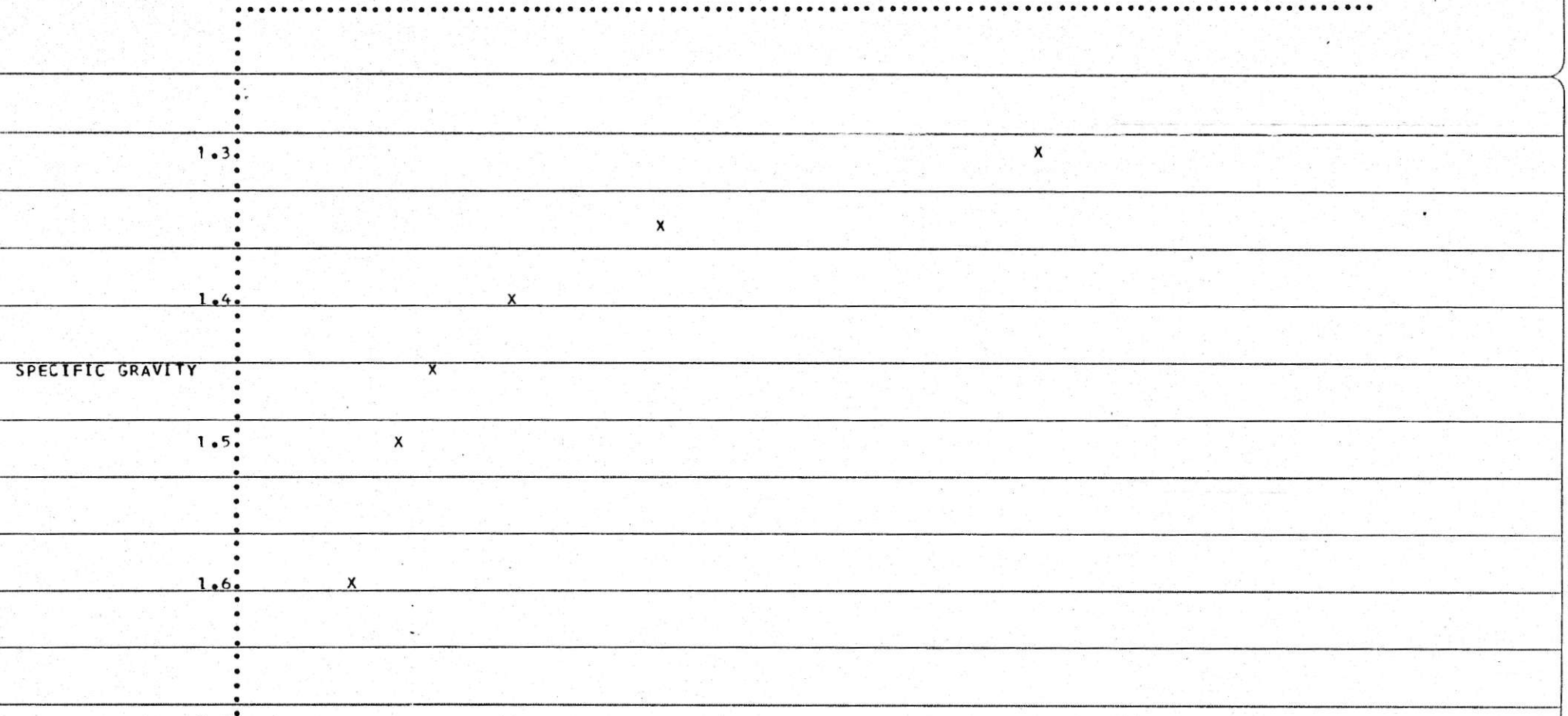


POINTS PLOTTED

X	Y
29	2
62	4
75	5
82	6
85	6
89	7
99	13

CUMULATIVE FLOATS WEIGHT PERCENT

100\*      90\*      80\*      70\*      60\*      50\*      40\*      30\*      20\*      10\*



SPECIFIC GRAVITY

1.7  
POINTS PLOTTED

X	Y
29	10
62	15
75	20
82	25
85	30
89	40

COMPO NUMBER- W766

DRILL HOLE NUMBER- 1754

SFAM NUMBER- 41712

## FLOTATION RESULTS

KEROSENE 0.97

FROTHER 7.20

PRODUCT	WEIGHT (GMS)	WEIGHT %	ASSAY		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	291.	89.0	9.3	7.0	63.0	92.9
TAILS	36.	11.0	44.1	2.5	37.0	7.1
CALC. HEAD	327.	100.0	13.1		100.0	100.0

TABLE 1

## WASHABILITY CURVE CALCULATIONS FOR (+2RMESH) FRACTION

SG	WT. (GMS.)	WT. %	CUM.WT. %	FRACTION ASH %	ASH WT. OF TOT.	CUM.WT. %	CUM.FLTS. ASH	SINKS WT. %	ASH WT. %	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	666.	15.34	15.34	1.90	0.29	0.29	1.90	27.94	84.66	33.00	1.90	7.67	7.5	
1.30-1.35	564.	12.99	28.32	8.20	1.06	1.36	4.79	26.87	71.68	37.49	8.20	21.83	7.5	
1.35-1.40	365.	8.40	36.73	13.70	1.15	2.51	6.83	25.72	63.27	40.65	13.70	32.52	7.0	
1.40-1.45	457.	10.52	47.25	18.20	1.92	4.42	9.36	23.81	52.75	45.13	18.20	41.99	5.0	
1.45-1.50	387.	8.91	56.16	22.60	2.01	6.44	11.46	21.79	43.84	49.71	22.60	51.70	4.0	
1.50-1.60	391.	9.00	65.16	30.00	2.70	9.14	14.02	19.09	34.84	54.80	30.00	60.66	2.5	
1.60 SINK	1513.	34.84	100.00	54.80	19.09	28.23	28.23	0.00	0.00	0.0	54.80	82.58	1.0	

## FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAF	RECOVERY A	AND ASH R	CALCULATIONS FR	FAR	FRAI	FRI	AP
0.0623	0.0058	4.0	24.9	0.2316	0.0093	0.0151	.294	5.1
0.0623	0.0058	6.0	33.3	0.3101	0.0186	0.0244	.372	6.6
0.0623	0.0058	8.0	41.6	0.3866	0.0309	0.0367	.449	8.2
0.0623	0.0058	10.0	50.0	0.4652	0.0465	0.0523	.527	9.9
0.0623	0.0058	12.0	58.2	0.5409	0.0649	0.0707	.603	11.7
0.0623	0.0058	14.0	65.1	0.6053	0.0847	0.0905	.668	13.6
0.0623	0.0058	16.0	71.5	0.6654	0.1065	0.1123	.728	15.4
0.0623	0.0058	18.0	77.5	0.7207	0.1297	0.1355	.783	17.3
0.0623	0.0058	20.0	82.9	0.7713	0.1543	0.1601	.834	19.2

COMPO NUMBER- W066

DRILL HOLE NUMBER- 1754

SEAM NUMBER- 41712

## DATA

## SIZE DISTRIBUTION

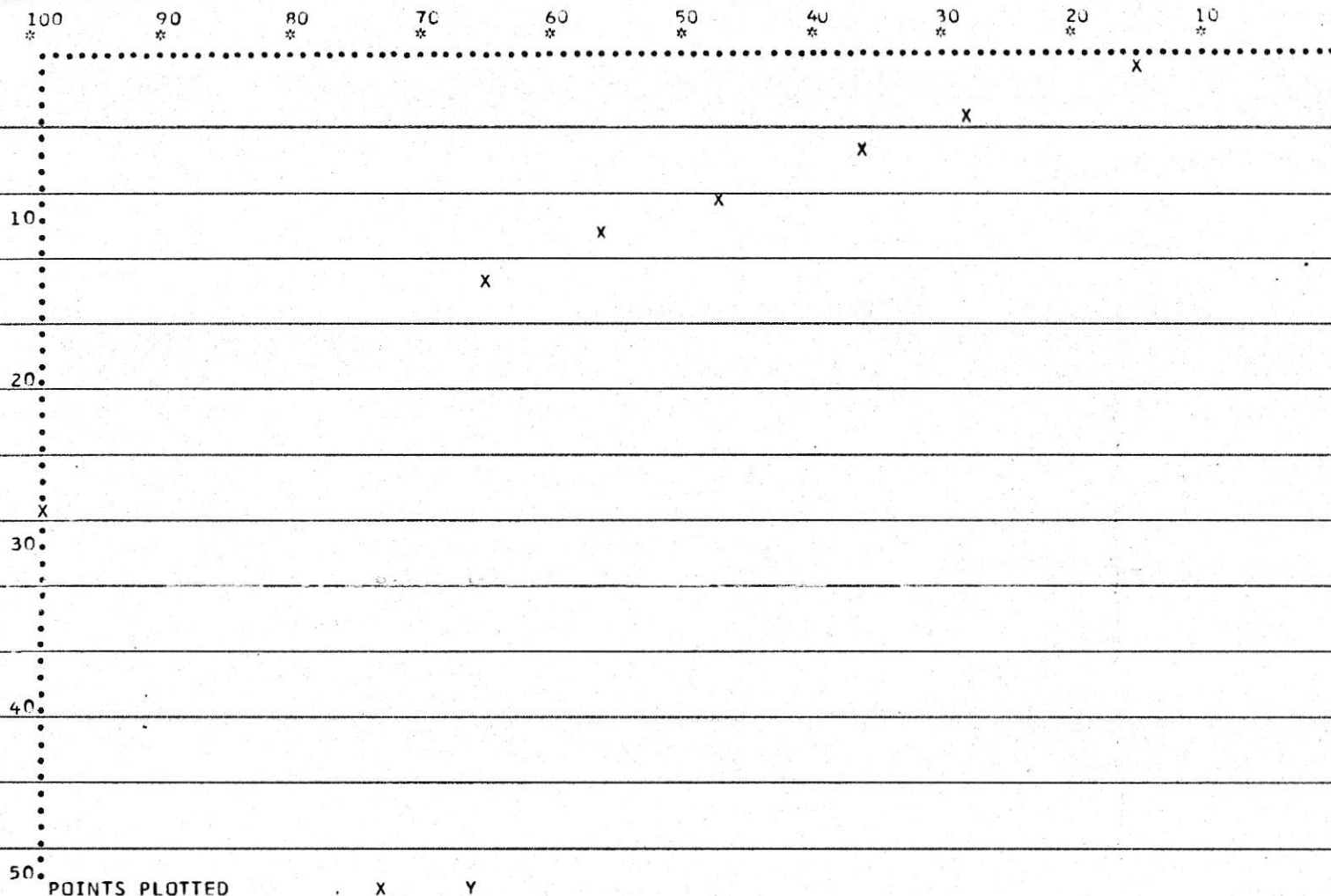
SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MESH	4343.	93.0	28.2
-28MESH	327.	7.0	13.1
FEED	4670.	100.0	27.2

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	9.30	88.99		6.23	13.37
PLUS 28	8.44	43.40	1.43	40.37	86.63
COMBINED	8.50	46.60		46.60	100.00
FLOTATION	9.30	88.99		6.23	12.80
PLUS 28	8.98	45.65	1.44	42.45	87.20
COMBINED	9.00	48.68		48.68	100.00
FLOTATION	9.30	88.99		6.23	12.27
PLUS 28	9.52	47.92	1.45	44.56	87.73
COMBINED	9.50	50.80		50.80	100.00
FLOTATION	9.30	88.99		6.23	11.77
PLUS 28	10.05	50.25	1.46	46.73	88.23
COMBINED	10.00	52.96		52.96	100.00



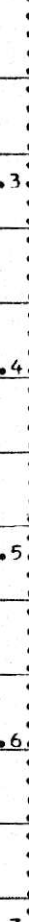
CUMULATIVE FLOATS WEIGHT PERCENT



X	Y
15	1
28	4
36	6
47	9
56	11
65	14
99	28

CUMULATIVE FLOATS WEIGHT PERCENT

100 \* 90 \* 80 \* 70 \* 60 \* 50 \* 40 \* 30 \* 20 \* 10 \*



1.3

X

X

1.4

X

SPECIFIC GRAVITY

X

1.5

X

1.6

X

1.7

POINTS PLOTTED

X	Y
15	10
28	15
36	20
47	25
56	30
65	40

COMPO NUMBER- W057

DRILL HOLE NUMBER- 1754

SEAM NUMBER- 30656-658

FLOTATION RESULTS

KEROSENE 0.90

FROTHER 0.20

PRODUCT	WEIGHT (GMS)	WEIGHT %	ASSAY		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	306.	94.2	8.3	6.5	67.7	97.5
TAILS	19.	5.8	61.6	0.0	32.3	2.5
CALC. HEAD	325.	100.0	11.1		100.0	100.0

TABLE 1

## WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

SG	WT. (GMS.)	WT. %	CUM.WT. %	FRACTION ASH %	ASH WT. OF TOT.	CUM.WT. %	CUM.FLTS. ASH	SINKS WT. %	ASH	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	1361.	29.70	29.70	7.80	0.83	0.83	2.80	20.45		70.30	29.09	2.80	14.85	6.5
1.30-1.35	883.	19.27	48.96	6.80	1.31	2.14	4.37	19.14		51.04	37.50	6.80	39.33	1.5
1.35-1.40	552.	12.04	61.01	10.90	1.31	3.45	5.66	17.83		38.99	45.72	10.90	54.99	1.0
1.40-1.45	254.	5.54	66.55	15.60	0.86	4.32	6.49	16.96		33.45	50.71	15.60	63.78	1.0
1.45-1.50	176.	3.84	70.39	19.20	0.74	5.06	7.18	16.23		29.61	54.80	19.20	68.47	1.0
1.50-1.60	318.	6.94	77.33	28.00	1.94	7.00	9.05	14.28		22.67	63.00	28.00	73.86	1.0
1.60 SINK	1039.	22.67	100.00	63.00	14.28	21.28	21.28	0.00		0.00	0.0	63.00	88.66	0.0

FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAF	RECOVERY A	AND ASH R	CALCULATIONS		FRAI	FRI	AP
				FR	FAR			
0.0623	0.0050	4.0	44.8	0.4187	0.0167	0.0217	.481	4.5
0.0623	0.0050	6.0	63.5	0.5925	0.0356	0.0405	.555	6.2
0.0623	0.0050	8.0	73.8	0.6891	0.0551	0.0601	.751	8.0
0.0623	0.0050	10.0	80.5	0.7517	0.0752	0.0802	.814	9.8
0.0623	0.0050	12.0	86.4	0.8069	0.0968	0.1018	.869	11.7
0.0623	0.0050	14.0	91.3	0.8522	0.1193	0.1243	.914	13.6
0.0623	0.0050	16.0	95.1	0.8876	0.1420	0.1470	.950	15.5
0.0623	0.0050	18.0	97.8	0.9132	0.1644	0.1694	.976	17.4
0.0623	0.0050	20.0	99.5	0.9289	0.1858	0.1908	.991	19.2

COMPO NUMBER- W057

DRILL HOLE NUMBER- 1754

SEAM NUMBER- 9 38656-658

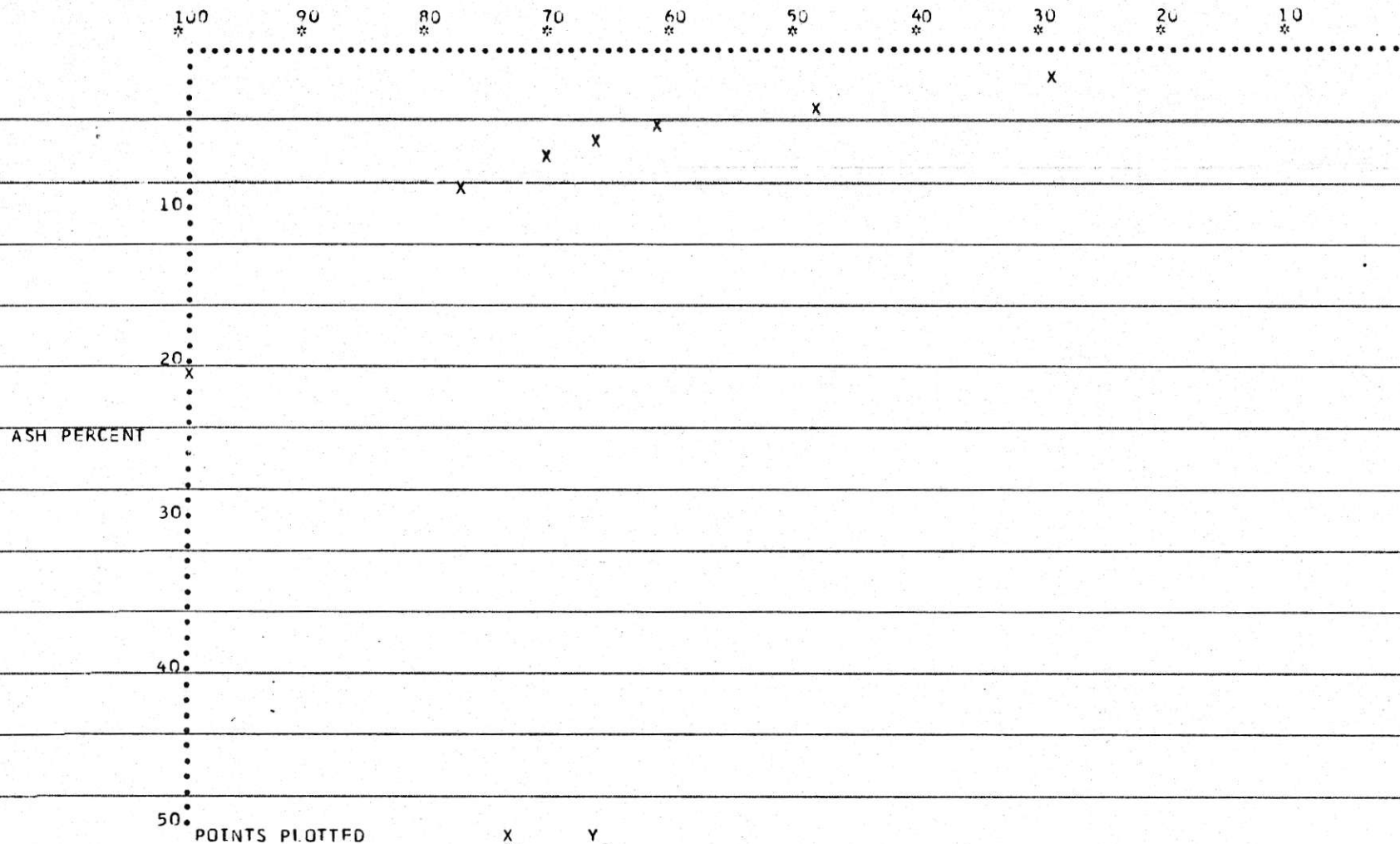
DATA  
SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MESH	4583.	93.4	21.3
-28MESH	325.	6.6	11.1
FEED	4978.	100.0	20.6

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	8.00	94.15		6.23	8.10
PLUS 28	8.54	75.72	1.58	70.70	91.90
COMBINED	8.50	76.94		76.94	100.00
FLOTATION	8.00	94.15		6.23	7.94
PLUS 28	9.07	77.40	+1.60	72.27	92.06
COMBINED	9.00	78.51		78.51	100.00
FLOTATION	8.00	94.15		6.23	7.77
PLUS 28	9.61	79.21	+1.60	73.97	92.23
COMBINED	9.50	80.20		80.20	100.00
FLOTATION	8.00	94.15		6.23	7.62
PLUS 28	10.14	80.95	+1.60	75.59	92.38
COMBINED	10.00	81.83		81.83	100.00

CUMULATIVE FLUATS WEIGHT PERCENT



X	Y
29	2
48	4
61	5
65	6
70	7
77	9
99	21

CUMULATIVE FLOATS WEIGHT PERCENT

100\* 90\* 80\* 70\* 60\* 50\* 40\* 30\* 20\* 10\*

1.3

X

X

1.4

X

SPECIFIC GRAVITY

X

1.5

X

1.6

X

1.7

POINTS PLOTTED

X	Y
29	10
48	15
61	20
66	25
70	30
77	40



COMPO NUMBER- W059

DRILL HOLE NUMBER- 1754

SEAM NUMBER- 5 3365-666

## FLOTATION RESULTS

PRODUCT	WEIGHT (GMS)	WEIGHT %	ASSAY		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	279.	86.1	7.1	7.5	46.2	92.2
TAILS	45.	13.9	51.2	0.9	53.8	7.8
CALC. HEAD	324.	100.0	13.2		100.0	100.0

PRODUCT	WEIGHT (GMS)	WEIGHT %	ASSAY		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	266.	81.1	7.0	6.5	45.2	86.3
TAILS	62.	18.9	36.4	1.5	54.8	13.7
CALC. HEAD	328.	100.0	12.6		100.0	100.0

TABLE 1

TABLE 1

## WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

SG	WT. (GMS.)	WT. %	CUM.WT. %	FRACTION ASH %	ASH WT. OF TOT.	CUM.WT. %	CUM.FLTS. ASH	SINKS WT. %	ASH	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	1102.	26.16	26.16	2.30	0.60	0.60	2.30	31.78	73.84	43.03	2.30	13.08	8.0	
1.30-1.35	597.	14.05	40.21	7.60	1.07	1.67	4.15	30.71	59.79	51.36	7.60	33.18	9.0	
1.35-1.40	395.	9.38	49.58	11.00	1.03	2.70	5.45	29.66	50.42	58.87	11.00	44.90	2.9	
1.40-1.45	193.	4.58	54.17	15.90	0.73	3.43	6.33	28.95	45.83	63.16	15.90	51.88	2.0	
1.45-1.50	99.	2.35	56.52	21.50	0.51	3.93	6.96	28.44	43.48	65.41	21.50	55.34	1.5	
1.50-1.60	97.	2.30	58.82	28.10	0.65	4.58	7.79	27.80	41.18	67.50	28.10	57.67	1.5	
1.60 SINK	1735.	41.18	100.00	67.50	27.80	32.38	32.38	0.00	0.00	0.0	67.50	79.41	0.5	

## FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAP	RECOVERY AND ASH CALCULATIONS				FRAI	FRI	AP
		A	R	FR	FAR			
0.1154	0.0082	4.0	39.1	0.3335	0.0135	0.0217	.454	4.8
0.1154	0.0082	6.0	52.6	0.4558	0.0273	0.0355	.571	6.2
0.1154	0.0082	8.0	59.4	0.5143	0.0411	0.0493	.630	7.8
0.1154	0.0082	10.0	64.7	0.5601	0.0560	0.0642	.675	9.5
0.1154	0.0082	12.0	69.6	0.6028	0.0723	0.0805	.718	11.2
0.1154	0.0082	14.0	74.2	0.6425	0.0907	0.0981	.758	12.9
0.1154	0.0082	16.0	78.4	0.6792	0.1087	0.1169	.795	14.7
0.1154	0.0082	18.0	82.3	0.7129	0.1283	0.1365	.828	16.5
0.1154	0.0082	20.0	85.9	0.7435	0.1487	0.1569	.859	18.3

COMPO NUMBER- W059

DRILL HOLE NUMBER- 1754

SEAM NUMBER- 5

## DATA

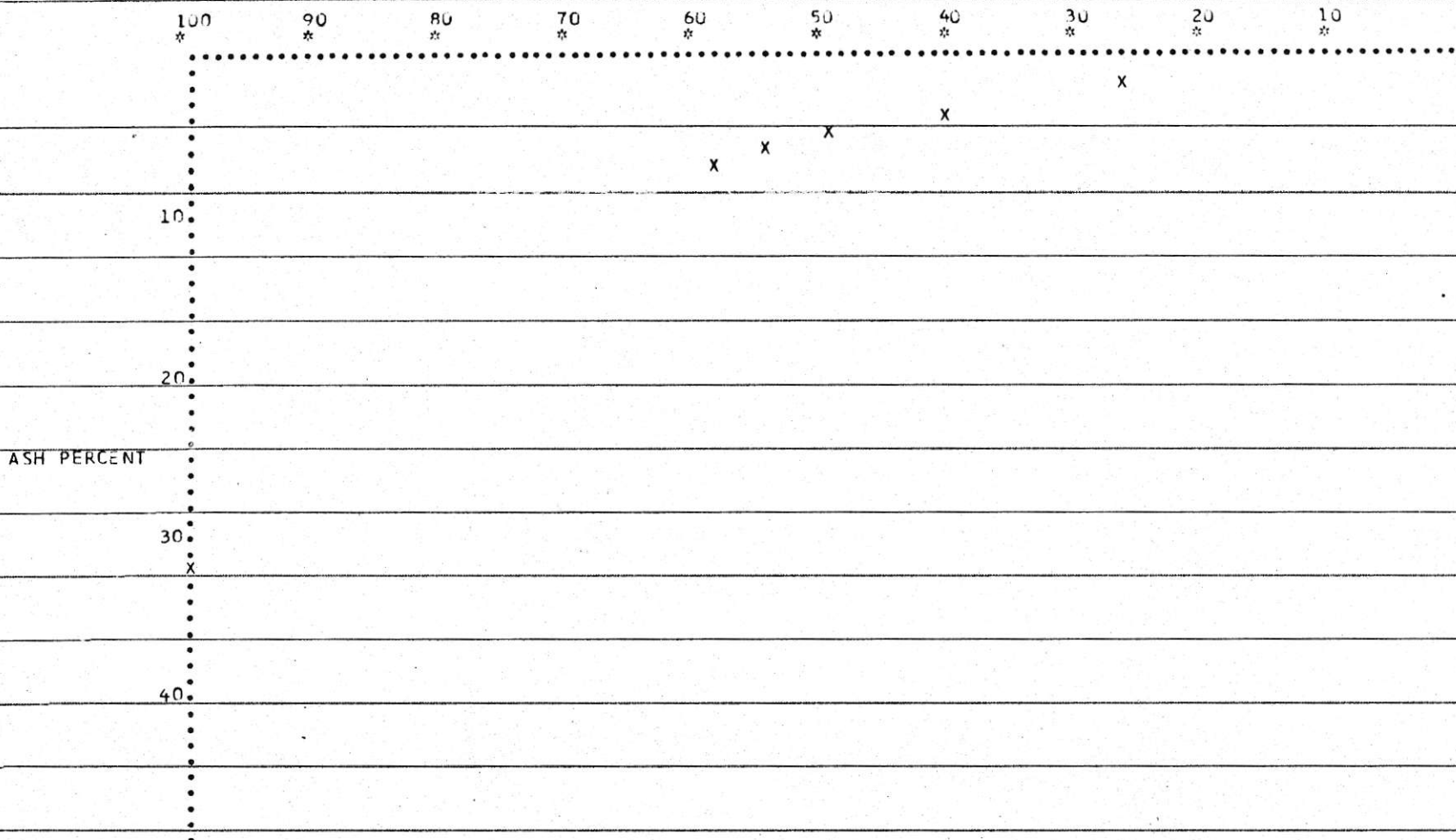
## SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MF5H	4213.	86.6	32.4
-28MF5H	652.	13.4	12.6
FEED	4865.	100.0	29.7

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	7.10	86.11		11.54	17.85
PLUS 28	8.72	61.33	+1.60	53.11	82.15
COMBINED	8.50	64.65		64.65	100.00
FLOTATION	7.10	86.11		11.54	17.49
PLUS 28	9.29	62.85	+1.60	54.43	82.51
COMBINED	9.00	65.97		65.97	100.00
FLOTATION	7.10	86.11		11.54	17.16
PLUS 28	9.87	64.35	+1.60	55.72	82.84
COMBINED	9.50	67.26		67.26	100.00
FLOTATION	7.10	86.11		11.54	16.84
PLUS 28	10.45	65.81	+1.60	56.99	83.16
COMBINED	10.00	68.53		68.53	100.00

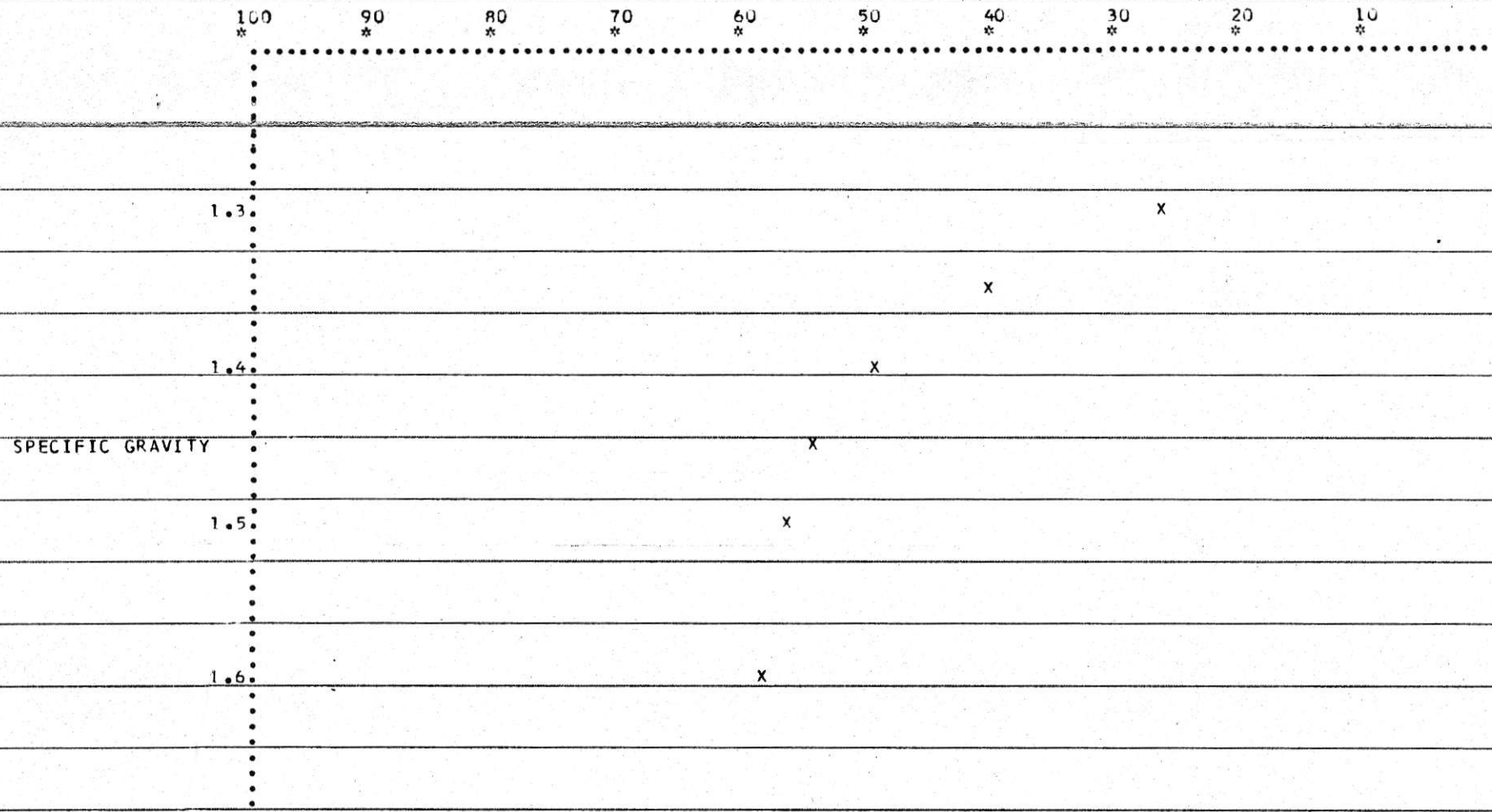
CUMULATIVE FLOATS WEIGHT PERCENT



POINTS PLOTTED

X	Y
26	2
40	4
49	5
54	6
56	6
58	7
99	32

CUMULATIVE FLOATS WEIGHT PERCENT



SPECIFIC GRAVITY

POINTS PLOTTED

X	Y
26	10
40	15
49	20
54	25
56	30
58	40

COMPO NUMBER- W058

DRILL HOLE NUMBER- 1754

SEAM NUMBER- 7 3861-663

FLOTATION RESULTS

KEROSENE 0.90 FROTHER 0.20

PRODUCT	WEIGHT (GMS)	WEIGHT %	ASSAY		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	318.	97.5	10.6	7.0	86.4	99.1
TAILS	8.	2.5	66.4	0.0	13.6	0.9
CALC. HEAD	326.	100.0	12.0		100.0	100.0

TABLE 1

WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

WGT. OF SAMPLE (GMS) 326.0000 WGT. OF CONCENTRATE (GMS) 318.0000 WGT. OF TAILS (GMS) 8.0000

TABLE 1

## WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

SG	WT. (GMS.)	WT. %	CUM.WT. %	FRACTION ASH %	ASH WT. OF TOT.	CUM.WT. %	CUM.FLTS. ASH	SINKS WT. %	ASH WT. %	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	893.	21.02	21.02	3.20	0.67	0.67	3.20	20.82	78.98	26.36	3.20	10.51	8.0	
1.30-1.35	570.	13.42	34.44	7.40	0.99	1.67	4.84	19.83	65.56	30.25	7.40	27.73	6.5	
1.35-1.40	629.	14.81	49.25	11.20	1.66	3.32	6.75	18.17	50.75	35.80	11.20	41.84	2.5	
1.40-1.45	466.	10.97	60.22	14.80	1.62	4.95	8.22	16.55	39.78	41.59	14.80	54.73	1.5	
1.45-1.50	289.	6.80	67.02	20.00	1.36	6.31	9.61	15.19	32.98	46.05	20.00	63.62	1.0	
1.50-1.60	354.	8.33	75.35	24.90	2.07	8.38	11.13	13.11	24.65	53.20	24.90	71.19	1.0	
1.60 SINK	1047.	24.65	100.00	53.20	13.11	21.50	21.50	0.0	0.00	0.0	53.20	87.68	0.5	



## FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAF	RECOVERY A	AND ASH R	CALCULATIONS		FRAI	FRI	AP
				FR	FAP			
0.0695	0.0074	4.0	27.7	0.2570	0.0103	0.0176	.326	5.4
0.0695	0.0074	6.0	43.5	0.4043	0.0243	0.0316	.474	6.7
0.0695	0.0074	8.0	58.7	0.5453	0.0436	0.0510	.615	8.3
0.0695	0.0074	10.0	70.0	0.6505	0.0551	0.0724	.720	10.1
0.0695	0.0074	12.0	79.1	0.7350	0.0882	0.0956	.805	11.9
0.0695	0.0074	14.0	86.6	0.8045	0.1126	0.1200	.874	13.7
0.0695	0.0074	16.0	92.5	0.8587	0.1374	0.1448	.928	15.6
0.0695	0.0074	18.0	96.6	0.8975	0.1616	0.1689	.967	17.5
0.0695	0.0074	20.0	99.2	0.9211	0.1842	0.1916	.991	19.3

COMPO NUMBER- W058

DRILL HOLE NUMBER- 1754

SEAM NUMBER- 7 33631-703

## DATA

## SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MESH	4248.	92.9	21.5
-28MESH	326.	7.1	12.0
FEED	4574.	100.0	20.8

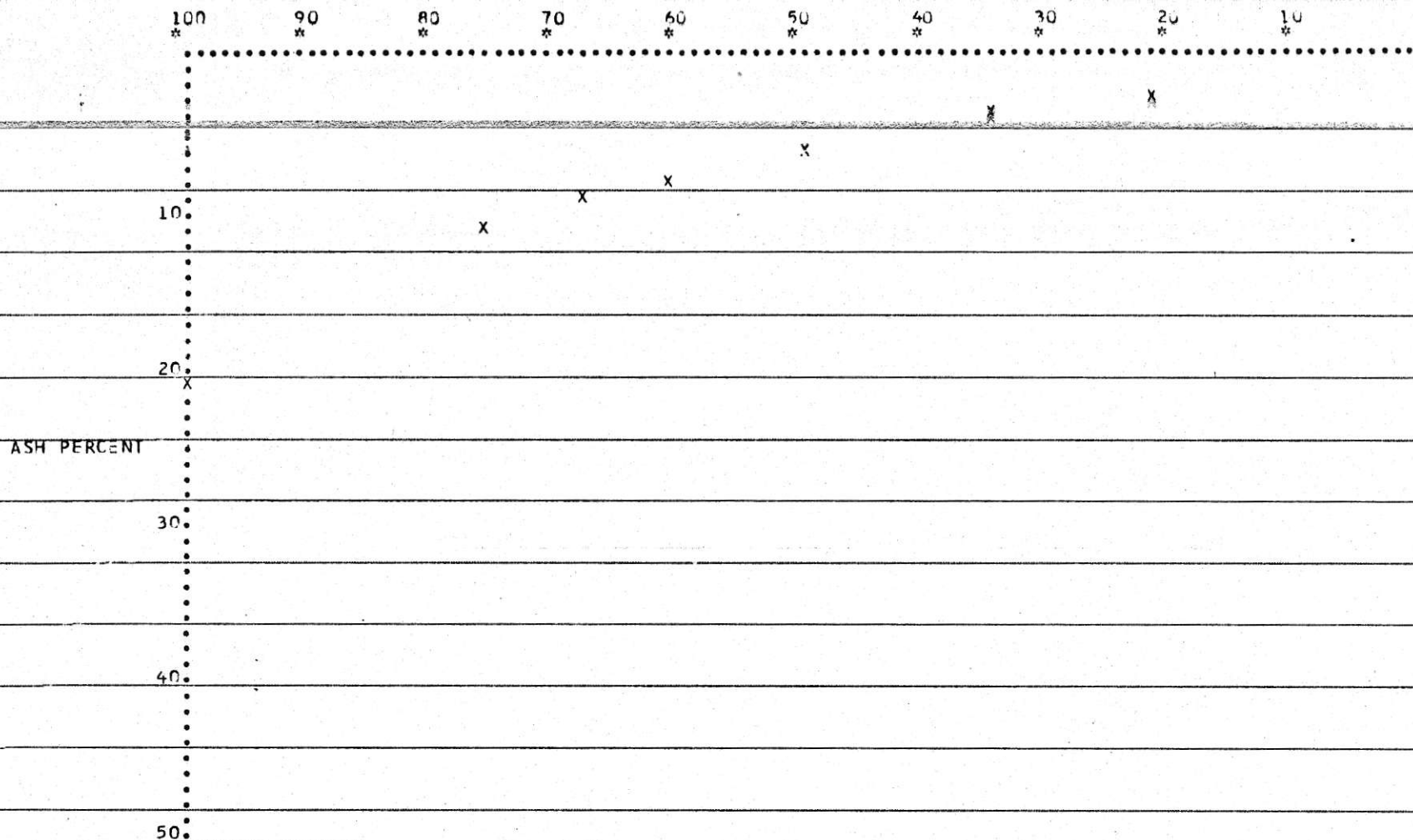
TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	10.60	97.55		6.95	10.93
PLUS 28	8.34	61.00	1.46	56.65	89.07
COMBINED	8.50	63.60		63.60	100.00
FLOTATION	10.60	97.55		6.95	10.45
PLUS 28	8.88	64.17	1.48	59.60	89.55
COMBINED	9.00	66.55		66.55	100.00
FLOTATION	10.60	97.55		6.95	10.04
PLUS 28	9.42	67.04	1.50	62.27	89.96
COMBINED	9.50	69.22		69.22	100.00
FLOTATION	10.60	97.55		6.95	9.68
PLUS 28	9.95	69.82	1.53	64.84	90.32
COMBINED	10.00	71.79		71.79	100.00

CUMULATIVE FLOATS WEIGHT PERCENT

100 90 80 70 60 50 40 30 20 10

CUMULATIVE FLOATS WEIGHT PERCENT

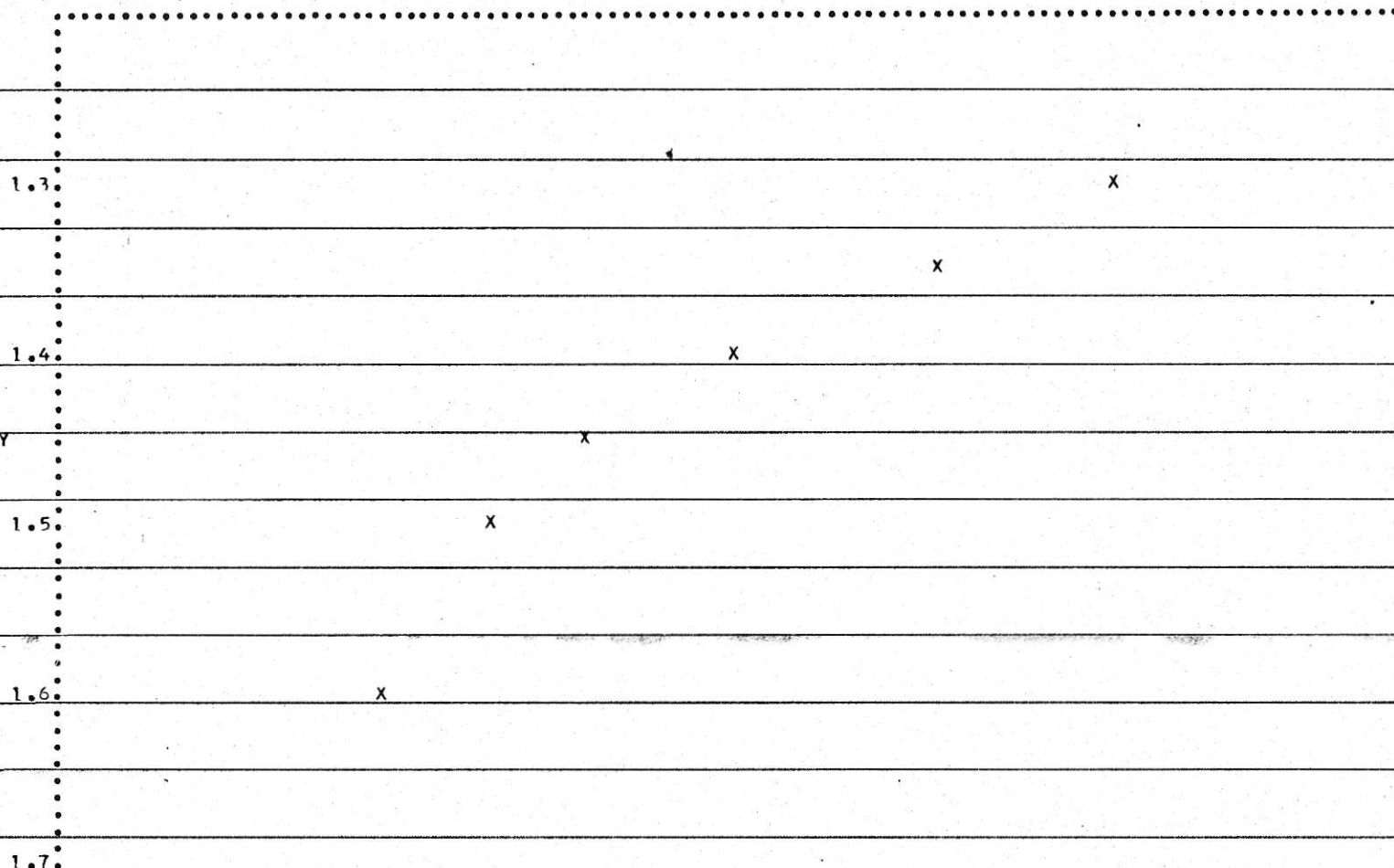


POINTS PLOTTED

X	Y
21	3
34	4
49	6
60	8
67	9
75	11
99	21

CUMULATIVE FLOATS WEIGHT PERCENT

100 \* 90 \* 80 \* 70 \* 60 \* 50 \* 40 \* 30 \* 20 \* 10 \*



SPECIFIC GRAVITY

1.7 POINTS PLOTTED

X	Y
21	10
34	15
49	20
60	25
67	30
75	40

COMPO NUMBER- W061

DRILL HOLE NUMBER- 1754

SEAM NUMBER- 38674-675

FLOTATION RESULTS

PRODUCT	KEROSENE WEIGHT (GMS)	0.97 WEIGHT %	FROTHER 0.20 ASSAY		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	299.	91.7	10.4	5.0	82.0	93.0
TAILS	27.	8.3	25.2	1.0	18.0	7.0
CALC. HEAD	326.	100.0	11.6		100.0	100.0

TABLE 1

WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

SG	WT.	WT.	CUM. WT.	FRACTION	ASH WT.	CUM. WT.	CUM. FLTS.	SINKS	ASH	CUM. SINKS	CUM. SINKS	ASH	FLTS.	FSI
	%	%	%	ASH %	OF TOT.	%	ASH	WT. %	WT. %	WT. %	ASH %	CONTENT	YIELD	

TABLE 1

## WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

SG	WT. (GMS.)	WT. %	CUM.WT. %	FRACTION ASH %	ASH WT. OF TOT.	CUM.WT. %	CUM.FLTS. ASH	SINKS WT. %	ASH	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	405.	26.52	26.52	3.50	0.93	0.93	3.50	14.59		73.48	19.86	3.50	13.26	7.5
1.30-1.35	451.	29.54	56.06	5.70	1.68	2.61	4.66	12.91		43.94	29.38	5.70	41.29	3.5
1.35-1.40	216.	14.15	70.20	9.80	1.39	4.00	5.69	11.53		29.80	38.68	9.80	63.13	1.5
1.40-1.45	146.	9.55	79.76	14.50	1.39	5.38	6.75	10.14		20.24	50.10	14.50	74.98	1.0
1.45-1.50	64.	4.19	83.96	18.80	0.79	6.17	7.35	9.35		16.04	58.28	18.80	81.86	1.0
1.50-1.60	64.	4.19	88.15	25.70	1.08	7.25	8.22	8.27		11.85	69.80	25.70	86.05	1.0
1.60 SINK	181.	11.85	100.00	69.80	8.27	15.52	15.52	0.00		0.00	0.0	69.80	94.07	0.0

## FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAF	RECOVERY		AND ASH CALCULATIONS		FRAI	FRI	AP
		A	R	FR	FAP			
0.1614	0.0168	4.0	41.0	0.3382	0.0135	0.0303	.500	6.1
0.1614	0.0168	6.0	73.4	0.6048	0.0363	0.0531	.766	6.9
0.1614	0.0168	8.0	87.2	0.7189	0.0575	0.0743	.880	8.4
0.1614	0.0168	10.0	94.8	0.7816	0.0782	0.0949	.943	10.1
0.1614	0.0168	12.0	99.5	0.8196	0.0984	0.1151	.981	11.7
0.1614	0.0168	14.0	***	0.8319	0.1165	0.1332	.993	13.4

COMPO NUMBER- WC61

DRILL HOLE NUMBER- 1754

SEAM NUMBER- 38674-675

## DATA

## SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MESH	1527.	82.4	15.5
-28MESH	326.	17.6	11.6
FEED	1853.	100.0	14.8

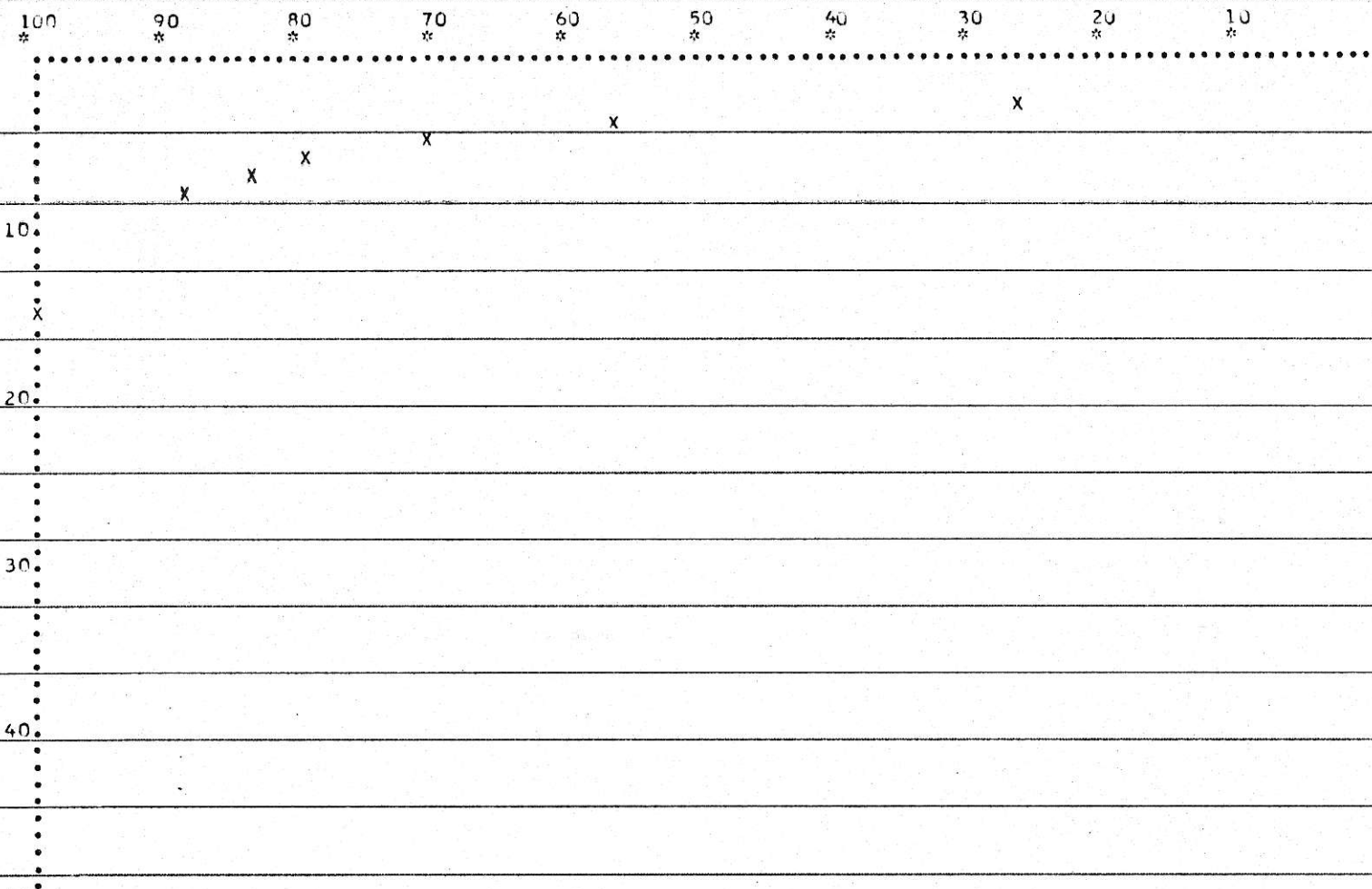
TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	10.40	91.72		16.14	18.26
PLUS 28	8.09	87.65	1.58	72.73	81.74
COMBINED	8.50	88.36		88.36	100.00
FLOTATION	10.40	91.72		16.14	17.84
PLUS 28	8.70	90.19	+1.60	74.32	82.16
COMBINED	9.00	90.46		90.46	100.00
FLOTATION	10.40	91.72		16.14	17.47
PLUS 28	9.31	92.53	+1.60	76.25	82.53
COMBINED	9.50	92.39		92.39	100.00
FLOTATION	10.40	91.72		16.14	17.15
PLUS 28	9.91	94.58	+1.60	77.94	82.85
COMBINED	10.00	94.08		94.08	100.00

CUMULATIVE FLOATS WEIGHT PERCENT



CUMULATIVE FLOATS WEIGHT PERCENT

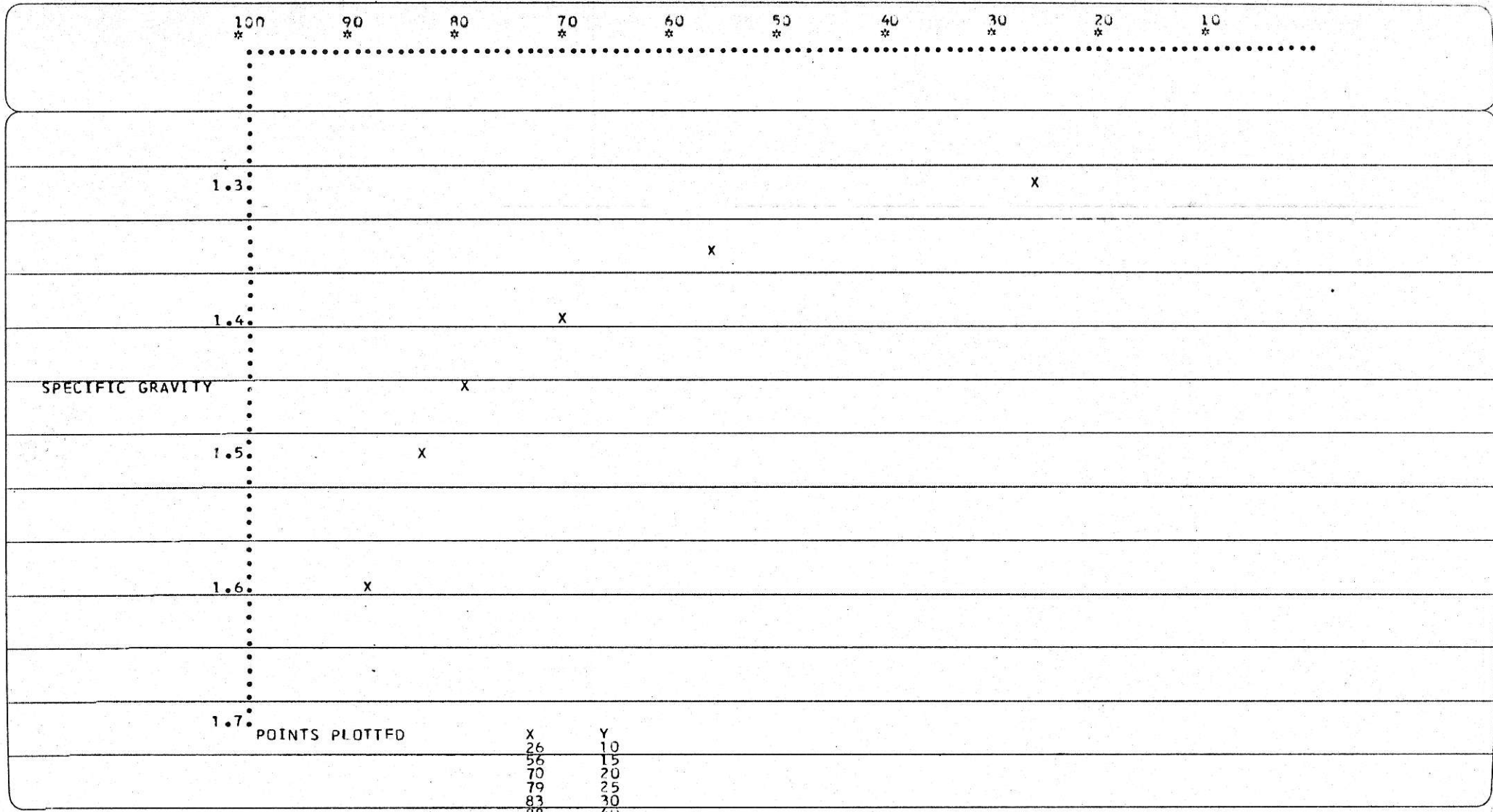


ASH PERCENT

POINTS PLOTTED

X	Y
26	3
56	4
70	5
79	6
83	7
88	8
99	15

CUMULATIVE FLOATS WEIGHT PERCENT



POINTS PLOTTED

X	Y
26	10
56	15
70	20
79	25
83	30
88	40

COMPO NUMBER- W060

DRILL HOLE NUMBER- 1754

SEAM NUMBER- 4 3867-672

FLOTATION RESULTS

COMPO NUMBER- 4060

DRILL HOLE NUMBER- 1754

SEAM NUMBER- 4 33657-672

FLOTATION RESULTS

KEROSENE 0.90

FROTHER 0.20

PRODUCT	WEIGHT (GMS)	WEIGHT %	ASSAY		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	307.	93.5	7.6	5.0	69.3	96.3
TAILS	21.	6.5	48.4	0.5	30.7	3.7
CALC. HEAD	328.	100.0	10.3		100.0	100.0

TABLE 1

WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

PRINTED IN CANADA

R. L. CRAIN INC.

TABLE 1

WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

SG	WT. (GMS.)	WT. %	CUM.WT. %	FRACTION ASH %	ASH WT. OF TOT.	CUM.WT. %	CUM.FLTS. ASH	SINKS WT. %	ASH WT. %	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	1031.	24.02	24.02	7.40	0.58	0.58	2.40	19.04	75.98	25.06	2.40	12.01	7.0	
1.30-1.35	1354.	31.55	55.57	5.40	1.70	2.28	4.10	17.33	44.43	39.01	5.40	39.79	2.0	
1.35-1.40	575.	13.40	68.97	9.40	1.26	3.54	5.13	16.07	31.03	51.80	9.40	62.27	1.5	
1.40-1.45	222.	5.17	74.14	14.90	0.77	4.31	5.81	15.30	25.86	59.18	14.90	71.55	1.0	
1.45-1.50	120.	2.80	76.93	20.60	0.58	4.89	6.35	14.73	23.07	63.85	20.60	75.54	1.0	
1.50-1.60	131.	3.05	79.99	25.50	0.78	5.66	7.08	13.95	20.01	69.70	25.50	78.46	1.0	
1.60 SINK	859.	20.01	100.00	69.70	13.95	19.61	19.61	0.0	0.00	0.0	69.70	89.99	0.0	

FOR OPTIMUM RECOVERIES

TABLE 2

RECOVERY AND ASH CALCULATIONS

FFRF	FFRFAF	A	R	FR	FAR	FRAT	FRI	AP
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PRINTED IN CANADA  
P. L. CHAIN INC.

FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAF	RECOVERY A	AND ASH R	CALCULATIONS FR	FAR	FRAI	FRI	AP
0.0654	0.0050	4.0	54.0	0.5021	0.0201	0.0251	.568	4.4
0.0654	0.0050	6.0	75.2	0.6998	0.0420	0.0470	.765	6.1
0.0654	0.0050	8.0	83.5	0.7768	0.0621	0.0671	.842	8.0
0.0654	0.0050	10.0	90.1	0.8380	0.0838	0.0888	.903	9.8
0.0654	0.0050	12.0	95.1	0.8847	0.1062	0.1111	.950	11.7
0.0654	0.0050	14.0	98.6	0.9169	0.1284	0.1333	.982	13.6
0.0654	0.0050	16.0	****	0.9347	0.1495	0.1545	****	15.5
0.0654	0.0050	18.0	****	0.9379	0.1688	0.1738	****	17.3

COMPO NUMBER- WD60

DRILL HOLE NUMBER- 1754

SEAM NUMBER- 4 38667-672

DATA  
SIZE DISTRIBUTION

COMPO NUMBER- w060

DRILL HOLE NUMBER- 1754

SEAM NUMBER- 4 38657-672

DATA  
SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MESH	4292.	93.0	19.6
-28MESH	323.	7.0	10.3
FEED	4615.	100.0	19.0

TABLE 3

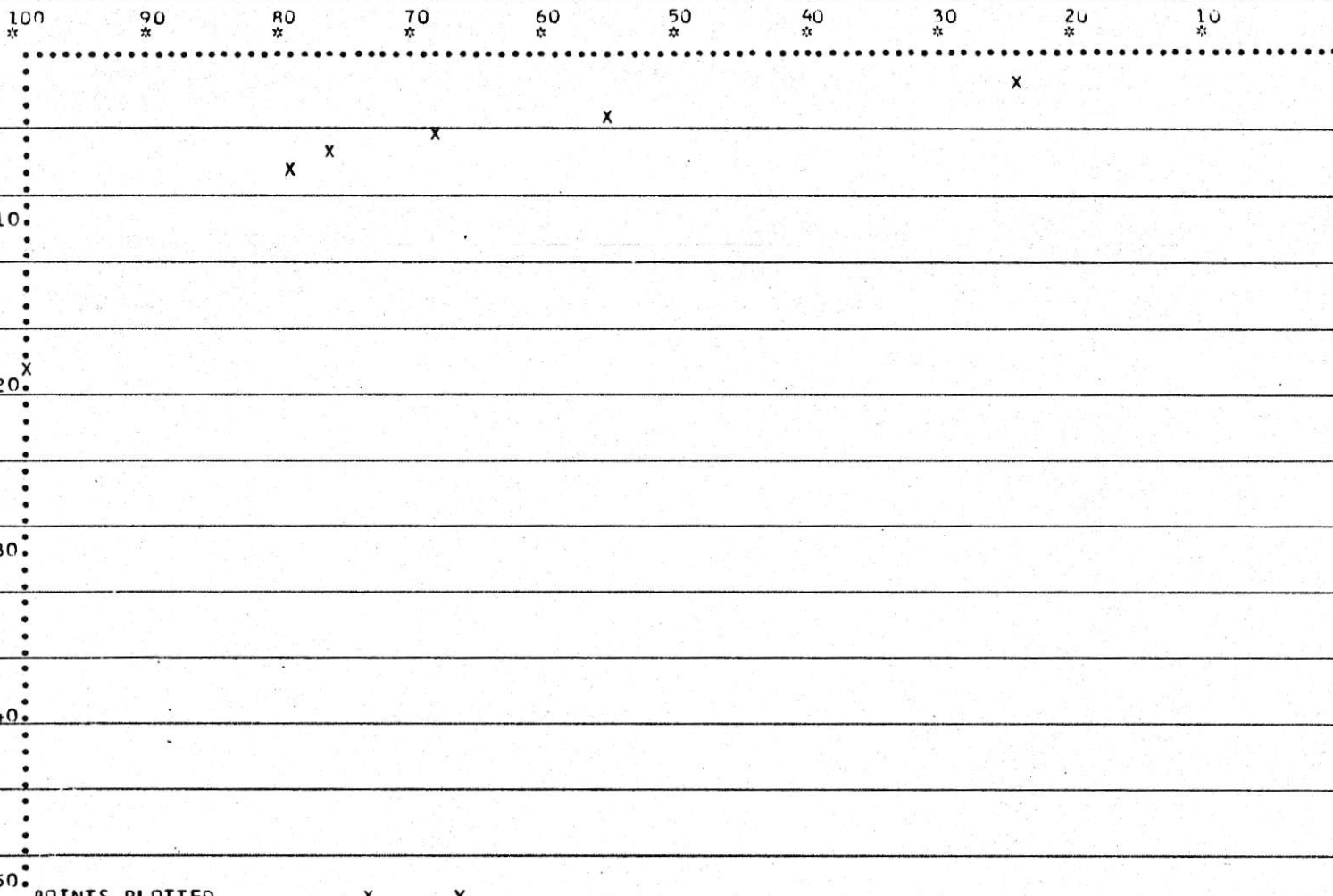
AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	7.60	93.50		6.54	7.60
PLUS 28	8.57	85.55	+1.60	79.57	97.40
COMBINED	8.50	86.11		86.11	100.00
FLOTATION	7.60	93.50		6.54	7.45
PLUS 28	9.11	87.36	+1.60	81.24	92.55
COMBINED	9.00	87.79		87.79	100.00
FLOTATION	7.60	93.50		6.54	7.32
PLUS 28	9.64	89.05	+1.60	82.81	97.68
COMBINED	9.50	89.36		89.36	100.00
FLOTATION	7.60	93.50		6.54	7.20
PLUS 28	10.18	90.62	+1.60	84.28	92.80
COMBINED	10.00	90.82		90.82	100.00

CUMULATIVE FLOATS WEIGHT PERCENT

100 \* 90 \* 80 \* 70 \* 60 \* 50 \* 40 \* 30 \* 20 \* 10 \*

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P. L. CHAIN INC.

CUMULATIVE FLOATS WEIGHT PERCENT



POINTS PLOTTED

X	Y
24	2
55	4
68	5
74	5
76	6
79	7
99	19

CUMULATIVE FLOATS WEIGHT PERCENT

100\* 90\* 80\* 70\* 60\* 50\* 40\* 30\* 20\* 10\*

1.3

x

x

1.4

x

SPECIFIC GRAVITY

x

1.5

x

1.6

x

1.7

POINTS PLOTTED

X	Y
24	10
55	15
68	20
74	25
76	30
79	40



COMPONENT NUMBER- W069

DRILL HOLE NUMBER- 1754

SEAM NUMBER- R1 41720

FLOTATION RESULTS

PRODUCT	WEIGHT (GMS)	WEIGHT %	ASSAY		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	318.	98.8	4.5	7.5	90.0	99.2
TAILS	4.	1.2	39.6	1.0	10.0	0.8
CALC. HEAD	322.	100.0	4.9		100.0	100.0

TABLE 1

## WASHABILITY CURVE CALCULATIONS FOR (+20MESH) FRACTION

SG	WT. (GMS.)	WT. %	CUM.WT. %	FRACTION ASH %	ASH WT. OF TOT.	CUM.WT. %	CUM.FLTS. ASH	SINKS WT. %	ASH WT. %	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	649.	24.59	24.59	1.60	0.39	0.39	1.60	8.42	75.41	11.17	1.60	12.30	8.0	
1.30-1.35	982.	37.21	61.80	6.10	2.27	2.66	4.31	6.15	38.20	16.11	6.10	43.20	6.5	
1.35-1.40	436.	16.52	78.33	10.70	1.77	4.43	5.66	4.39	21.67	20.24	10.70	70.06	5.0	
1.40-1.45	324.	12.28	90.60	14.90	1.83	6.26	6.91	2.56	9.40	27.21	14.90	84.46	4.5	
1.45-1.50	122.	4.62	95.23	19.90	0.92	7.18	7.54	1.64	4.77	34.29	19.90	92.91	2.5	
1.50-1.60	74.	2.80	98.03	26.90	0.75	7.93	8.09	0.88	1.97	44.80	26.90	96.63	2.5	
1.60 SINK	52.	1.97	100.00	44.80	0.88	8.82	8.82	0.00	0.00	0.0	44.80	99.01	1.5	

FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAP	RECOVERY		AND ASH CALCULATIONS		FRAI	FRI	AP
		A	R	FR	FAR			
0.1382	0.0062	4.0	57.8	0.4974	0.0199	0.0261	.636	4.1
0.1382	0.0062	6.0	82.1	0.7057	0.0423	0.0486	.844	6.8
0.1382	0.0062	8.0	97.8	0.8410	0.0673	0.0735	.979	7.5

COMPO NUMBER- W069

DRILL HOLE NUMBER- 1754

SEAM NUMBER- 121 41720

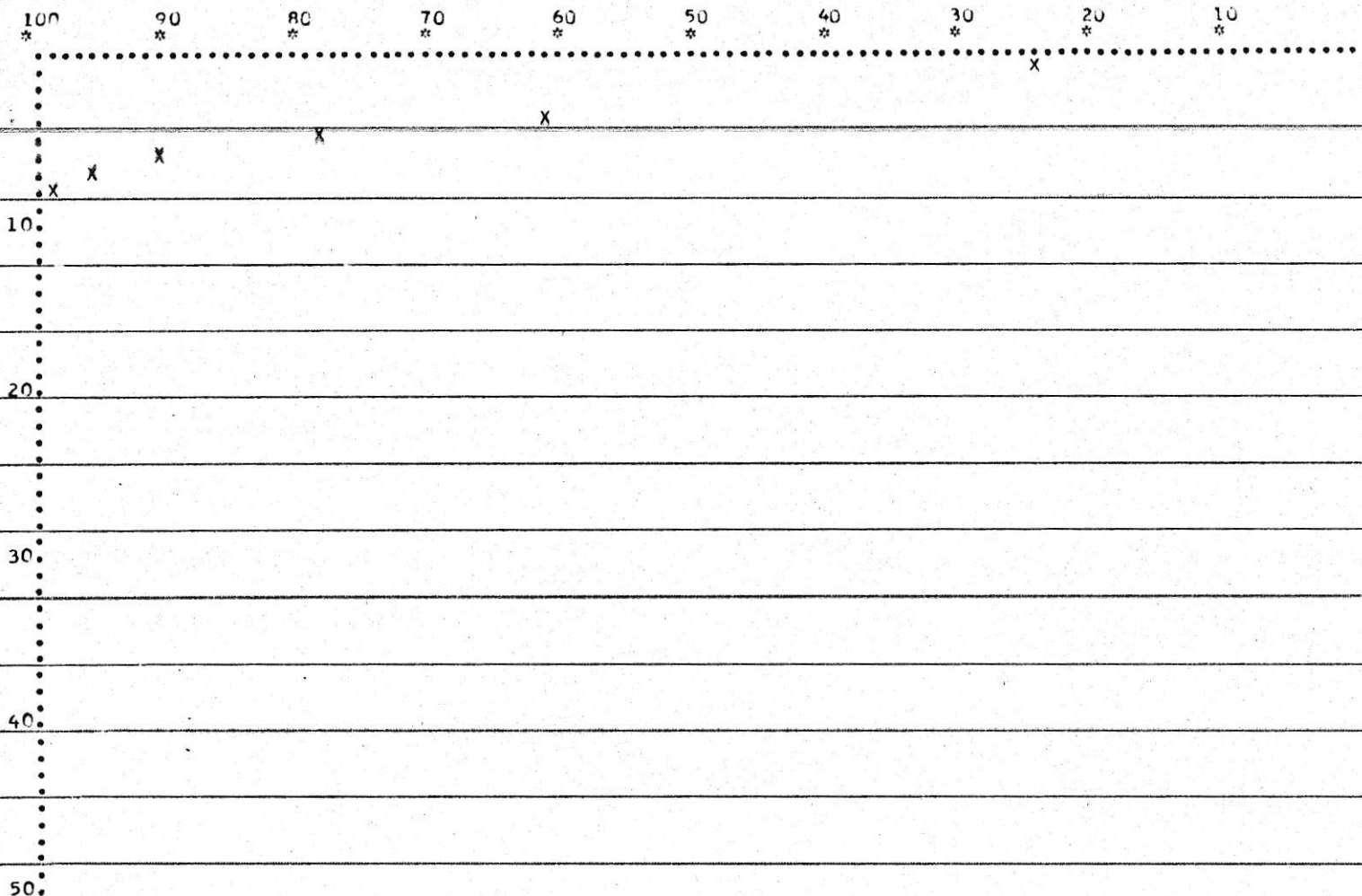
DATA  
SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MESH	2668.	86.0	8.8
-28MESH	434.	14.0	4.9
FEED	3102.	100.0	8.3

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	4.50	98.76		13.82	13.84
PLUS 28	8.82	100.00	+1.60	86.01	86.16
COMBINED	8.21	99.83		99.83	100.00
FLOTATION	4.50	98.76		13.82	13.84
PLUS 28	8.82	100.00	+1.60	86.01	86.16
COMBINED	8.21	99.83		99.83	100.00
FLOTATION	4.50	98.76		13.82	13.84
PLUS 28	8.82	100.00	+1.60	86.01	86.16
COMBINED	8.21	99.83		99.83	100.00

CUMULATIVE FLOATS WEIGHT PERCENT



ASH PERCENT

POINTS PLOTTED

X	Y
24	1
61	4
78	5
90	6
95	7
98	8
99	8

CUMULATIVE FLOATS WEIGHT PERCENT

100 \* 90 \* 80 \* 70 \* 60 \* 50 \* 40 \* 30 \* 20 \* 10 \*



1.3

X

X

1.4

X

SPECIFIC GRAVITY

X

1.5

X

1.6 X

1.7

POINTS PLOTTED

X	Y
24	10
61	15
78	20
90	25
95	30
98	40

COMPO NUMBER- W056

DRILL HOLE NUMBER- 1754

SEAM NUMBER- 9 38653-655

FLOTATION RESULTS

PRODUCT	KEROSENE WEIGHT (GMS)	0.90 WEIGHT %	FROTHER 0.20		DISTRIBUTION	
			ASSAY ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	255.	79.7	12.4	7.5	44.6	89.7
TAILS	65.	20.3	60.4	1.0	55.4	10.3
CALC. HEAD	320.	100.0	22.1		100.0	100.0

TABLE 1

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M. L. CRAM INC

TABLE 1

## WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

SG	WT. (GMS.)	WT. %	CUM.WT. %	FRACTION ASH %	ASH WT. OF TOT.	CUM.WT. %	CUM.FLTS. ASH	SINKS WT. %	ASH	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	842.	18.38	18.38	3.10	0.57	0.57	3.10	40.30	81.62	49.38	3.10	9.19	7.5	
1.30-1.35	417.	9.10	27.49	7.50	0.68	1.25	4.95	39.62	72.91	54.64	7.50	22.94	7.0	
1.35-1.40	346.	7.55	35.04	13.30	1.30	2.26	6.44	38.61	64.96	59.45	13.30	31.27	6.0	
1.40-1.45	163.	3.56	38.60	19.60	0.70	2.96	7.66	37.92	61.40	61.76	19.60	36.82	5.0	
1.45-1.50	151.	3.30	41.90	23.50	0.77	3.73	8.90	37.14	58.10	63.93	23.50	40.25	3.5	
1.50-1.60	197.	4.30	46.20	30.50	1.31	5.04	10.91	35.83	53.80	66.60	30.50	44.05	2.0	
1.60 SINK	2464.	53.80	100.00	66.60	35.83	40.87	40.87	0.0	0.00	0.0	66.60	73.10	1.0	



FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAF	RECOVERY		AND ASH CALCULATIONS		FRAI	FRI	AP
		A	R	FR	FAR			
0.0520	0.0065	4.0	24.3	0.2275	0.0091	0.0156	.280	5.6
0.0520	0.0065	6.0	33.6	0.3140	0.0188	0.0253	.366	6.9
0.0520	0.0065	8.0	39.6	0.3698	0.0296	0.0360	.422	8.5
0.0520	0.0065	10.0	44.3	0.4144	0.0414	0.0479	.466	10.3
0.0520	0.0065	12.0	48.5	0.4532	0.0544	0.0608	.505	12.0
0.0520	0.0065	14.0	52.6	0.4920	0.0689	0.0753	.544	13.8
0.0520	0.0065	16.0	56.7	0.5299	0.0848	0.0912	.582	15.7
0.0520	0.0065	18.0	60.7	0.5671	0.1021	0.1085	.619	17.5
0.0520	0.0065	20.0	64.6	0.6034	0.1207	0.1271	.655	19.4

COMPO NUMBER- W056

DRILL HOLE NUMBER- 1754

SEAM NUMBER- 30653-655

## DATA

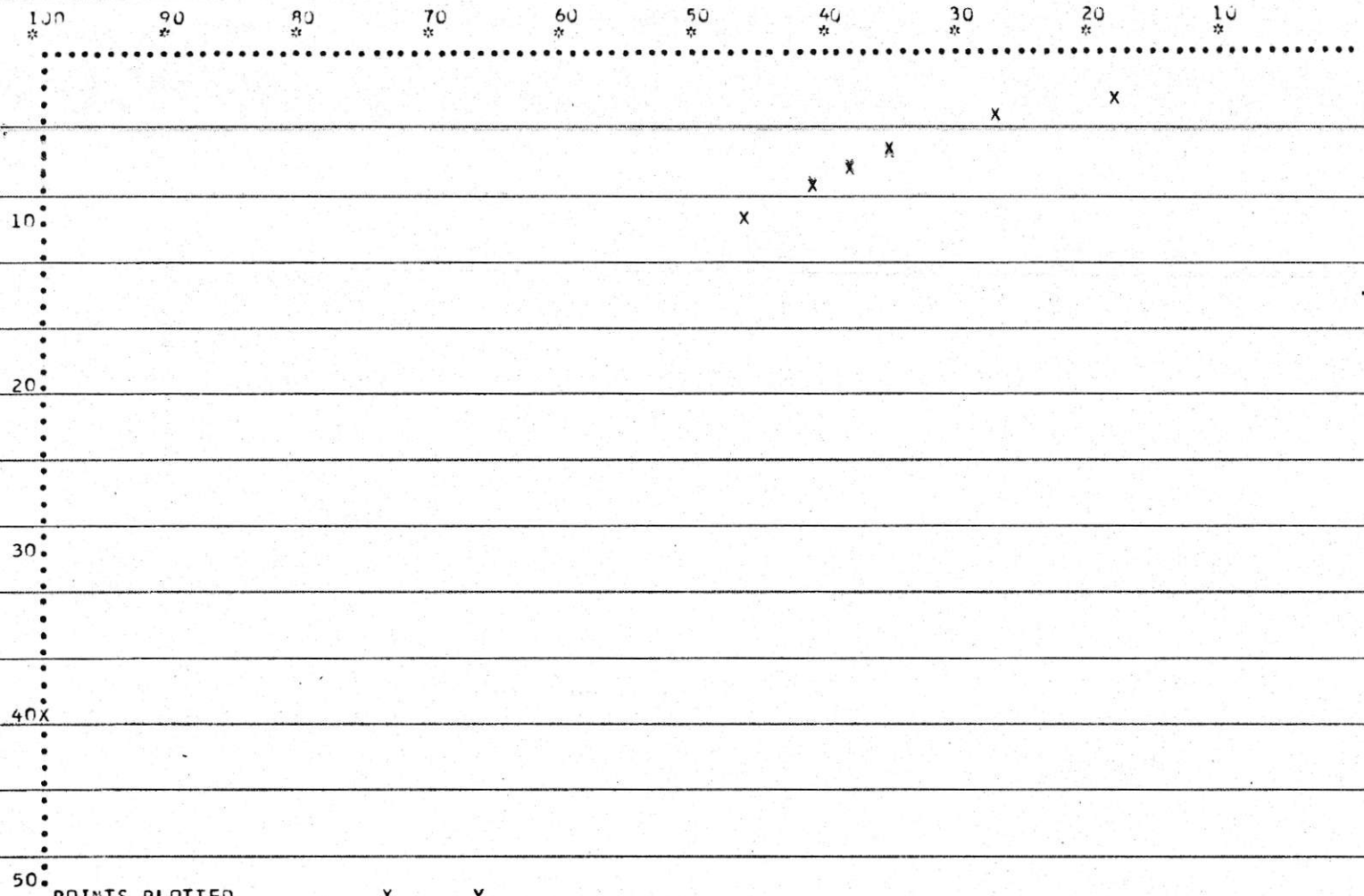
## SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MESH	4580.	93.5	40.9
-28MESH	370.	6.5	22.1
FEED	4970.	100.0	39.6

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 5.6	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	12.40	79.69		5.20	12.17
PLUS 28	8.23	40.18	1.47	37.56	87.83
COMBINED	8.50	42.76		42.76	100.00
FLOTATION	12.40	79.69		5.20	11.81
PLUS 28	8.76	41.56	1.50	38.85	88.19
COMBINED	9.00	44.05		44.05	100.00
FLOTATION	12.40	79.69		5.20	11.51
PLUS 28	9.30	42.81	1.52	40.01	88.49
COMBINED	9.50	45.22		45.22	100.00
FLOTATION	12.40	79.69		5.20	11.24
PLUS 28	9.83	43.98	1.54	41.11	88.76
COMBINED	10.00	46.31		46.31	100.00

CUMULATIVE FLOATS WEIGHT PERCENT



ASH PERCENT

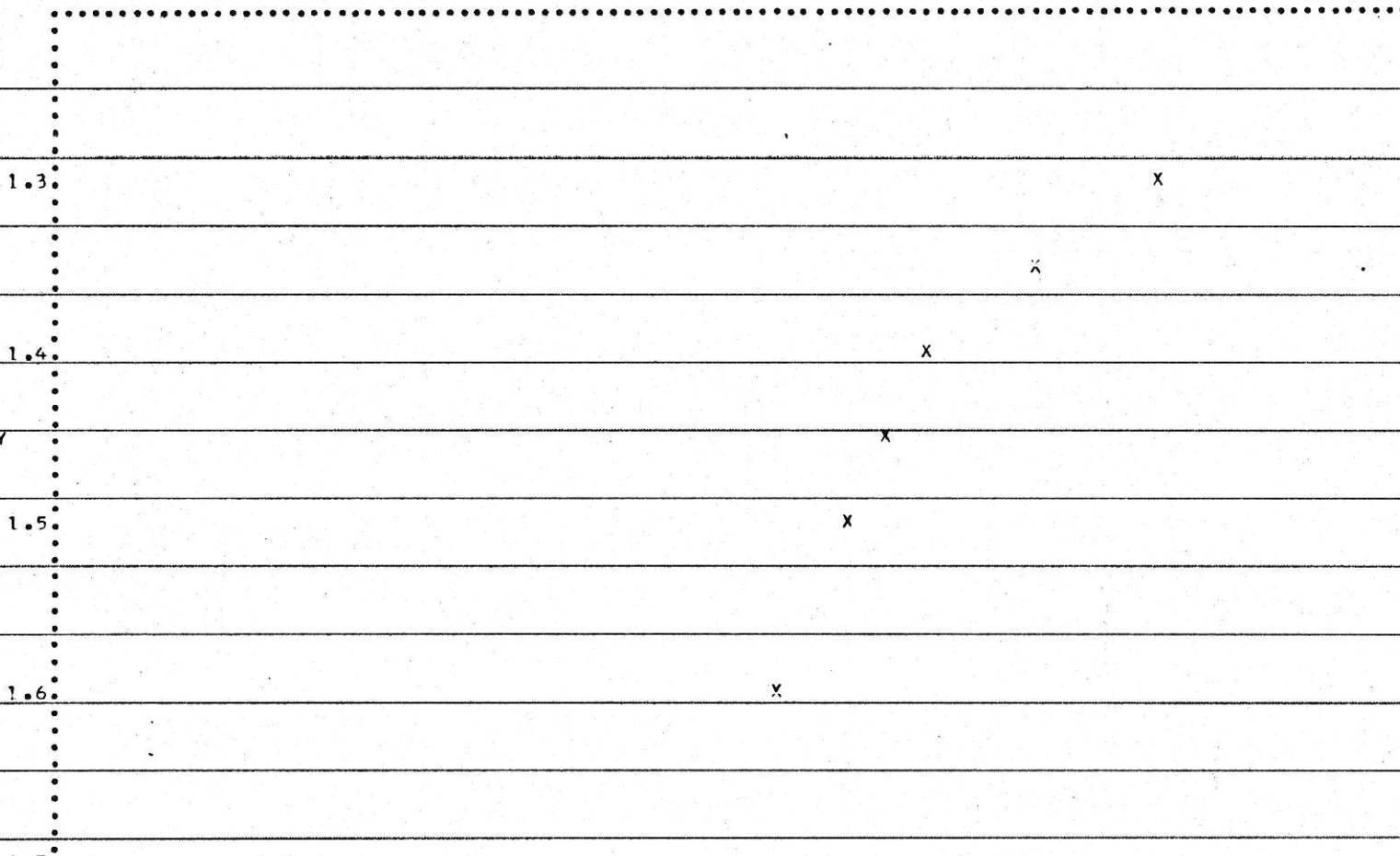
POINTS PLOTTED

X	Y
18	3
27	4
35	6
38	7
41	8
46	10
99	40

CUMULATIVE FLOATS WEIGHT PERCENT

100 \* 90 \* 80 \* 70 \* 60 \* 50 \* 40 \* 30 \* 20 \* 10 \*

SPECIFIC GRAVITY



1.7 POINTS PLOTTED

X	Y
18	10
27	15
35	20
38	25
41	30
46	40

COMPO NUMBER- W055

DRILL HOLE NUMBER- 1754

SEAM NUMBER- 110 38649-650

FLOTATION RESULTS

KEROSENE 0.90

FROTHER 0.20

PRODUCT	WEIGHT (GMS)	WEIGHT %	ASSAY		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	315.	96.3	7.9	7.5	75.6	98.6
TAILS	12.	3.7	66.9	0.0	24.4	1.4
CALC. HEAD	327.	100.0	10.1		100.0	100.0

TABLE 1

## WASHABILITY CURVE CALCULATIONS FOR (+20MESH) FRACTION

SG	WT. (GMS.)	WT. %	CUM.WT. %	FRACTION ASH %	ASH WT. OF TOT.	CUM.WT. %	CUM.FLTS. ASH	SINKS ASH WT. %	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	2006.	45.23	45.23	2.40	1.09	1.09	2.40	17.87	54.77	32.63	2.40	22.62	7.5
1.30-1.35	688.	15.51	60.74	8.00	1.74	2.33	3.83	16.63	39.26	42.37	8.00	52.99	4.0
1.35-1.40	350.	7.89	68.64	12.20	0.96	3.29	4.79	15.67	31.36	49.96	12.20	64.69	2.0
1.40-1.45	195.	4.40	73.03	16.10	0.71	4.00	5.47	14.96	26.97	55.48	16.10	70.83	1.5
1.45-1.50	103.	2.32	75.36	20.70	0.48	4.48	5.94	14.48	24.64	58.76	20.70	74.19	1.5
1.50-1.60	153.	3.45	78.80	28.40	0.98	5.46	6.93	13.50	21.20	63.70	28.40	77.08	1.0
1.60 SINK	940.	21.20	100.00	63.70	13.50	18.96	18.96	0.0	0.00	0.0	63.70	89.40	0.5

FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAF	RECOVERY		AND ASH CALCULATIONS		FRAI	FRI	AP
		A	R	FR	FAR			
0.0661	0.0052	4.0	62.3	0.5800	0.0232	0.0284	.646	4.4
0.0661	0.0052	6.0	75.6	0.7042	0.0423	0.0475	.770	6.2
0.0661	0.0052	8.0	82.3	0.7663	0.0613	0.0665	.832	8.0
0.0661	0.0052	10.0	87.9	0.8138	0.0819	0.0871	.885	9.8
0.0661	0.0052	12.0	92.5	0.8613	0.1034	0.1086	.927	11.7
0.0661	0.0052	14.0	96.0	0.8939	0.1251	0.1304	.960	13.6
0.0661	0.0052	16.0	98.4	0.9164	0.1466	0.1518	.983	15.5
0.0661	0.0052	18.0	99.7	0.9289	0.1572	0.1724	.995	17.3

COMPO NUMBER- W055

DRILL HOLE NUMBER- 1754

SEAM NUMBER- 110 38649-650

## DATA

## SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MESH	4435.	93.1	19.0
-28MESH	327.	6.9	10.1
FEED	4762.	100.0	18.3

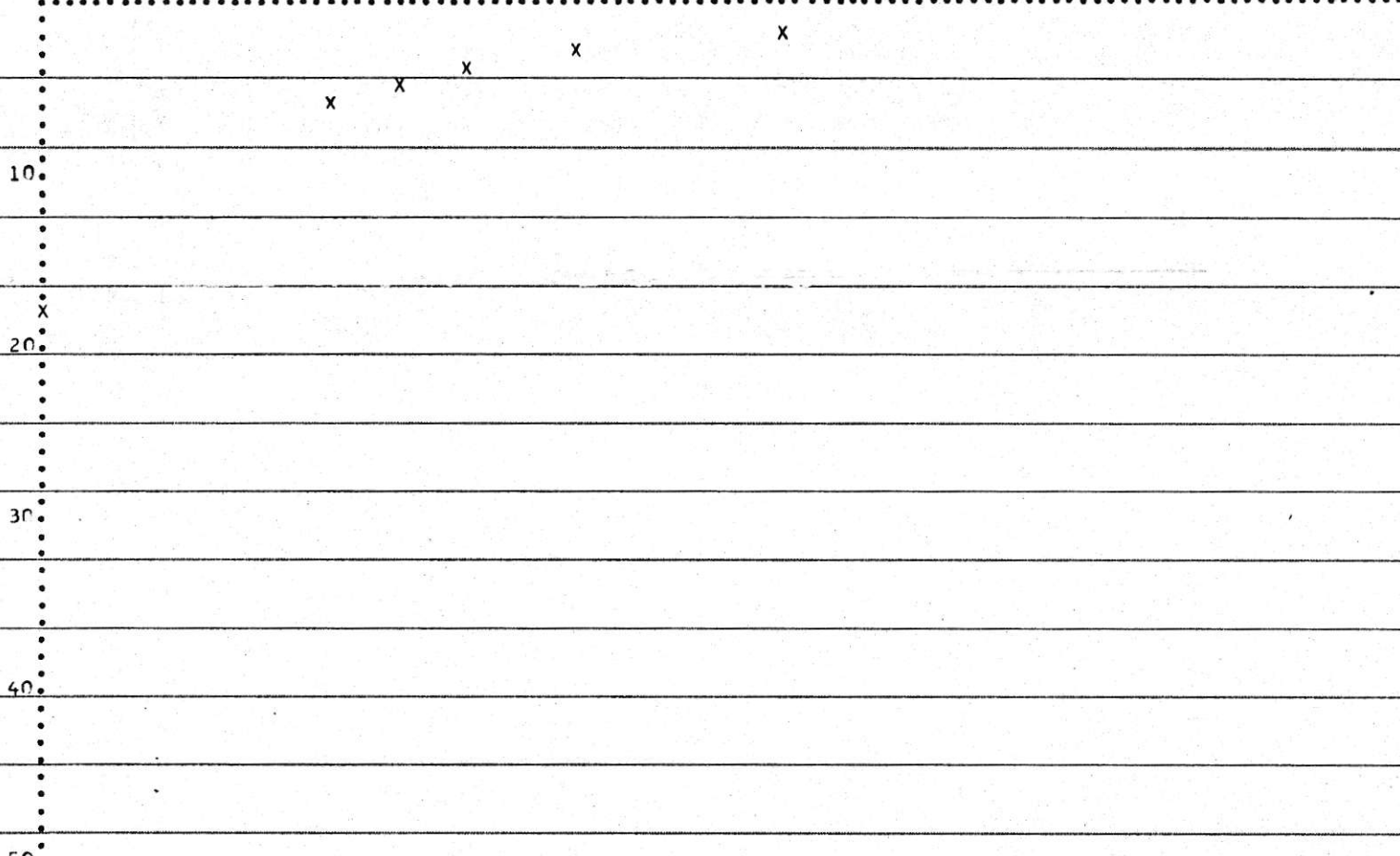
TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	7.90	96.33		6.61	7.80
PLUS 28	8.54	83.92	+1.60	78.15	92.20
COMBINED	8.50	84.77		84.77	100.00
FLOTATION	7.90	96.33		6.61	7.67
PLUS 28	9.08	85.46	+1.60	79.59	92.33
COMBINED	9.00	86.21		86.21	100.00
FLOTATION	7.90	96.33		6.61	7.55
PLUS 28	9.62	86.92	+1.60	80.96	92.45
COMBINED	9.50	87.57		87.57	100.00
FLOTATION	7.90	96.33		6.61	7.44
PLUS 28	10.15	88.31	+1.60	82.25	92.56
COMBINED	10.00	88.86		88.86	100.00



CUMULATIVE FLOATS WEIGHT PERCENT

100\* 90\* 80\* 70\* 60\* 50\* 40\* 30\* 20\* 10\*



ASH PERCENT

POINTS PLOTTED

X	Y
45	2
60	3
68	4
73	5
75	5
78	6
99	18

CUMULATIVE FLOATS WEIGHT PERCENT

100\* 90\* 80\* 70\* 60\* 50\* 40\* 30\* 20\* 10\*

CUMULATIVE FLOATS WEIGHT PERCENT

100 \* 90 \* 80 \* 70 \* 60 \* 50 \* 40 \* 30 \* 20 \* 10 \*

1.3

X

X

1.4

X

SPECIFIC GRAVITY

X

1.5

X

1.6

X

1.7

POINTS PLOTTED

X	Y
45	10
60	15
68	20
73	25
75	30
78	40

COMPO NUMBER- W354

DRILL HOLE NUMBER- 1754

SEAM NUMBER- 12 38645-648

FLOTATION RESULTS

PRODUCT	KEROSENE 0.75		FROTHER 0.15		DISTRIBUTION	
	WEIGHT (GMS)	WEIGHT %	ASSAY ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	7.	87.5	1.3	1.4	87.1	87.5
TAILS	1.	12.5	1.4	1.4	12.9	12.5
CALC. HEAD	8.	100.0	1.3		100.0	100.0

PRODUCT	KEROSENE 0.97		FROTHER 0.20		DISTRIBUTION	
	WEIGHT (GMS)	WEIGHT %	ASSAY ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	1.	100.0	0.0	0.0	0.0	100.0
TAILS	0.	0.0	0.0	0.0	100.0	0.0
CALC. HEAD	1.	100.0	0.0		100.0	100.0

TABLE 1

WASHABILITY CURVE CALCULATIONS FOR (1) 2015-11-06 (1) 2015-11-06

TABLE 1

## WASHABILITY CURVE CALCULATIONS FOR (+20MESH) FRACTION

SG	WT. (GMS.)	WT. %	CUM. WT. %	FRACTION ASH %	ASH WT. OF TOT.	CUM. WT. %	CUM. FLTS. ASH	SINKS ASH WT. %	CUM. SINKS WT. %	CUM. SINKS ASH %	ASH CONTENT	FLTS. YIELD	ISI
1.30	1918.	64.44	64.44	2.70	1.74	1.74	2.70	22.51	35.56	63.32	2.70	32.22	***
1.30-1.35	8.	0.25	64.70	*****	0.53	2.27	3.50	21.99	35.30	62.25	*****	64.57	***
1.35-1.40	112.	3.76	68.47	16.80	0.63	2.90	4.23	21.35	31.53	67.72	16.80	66.59	***
1.40-1.45	23.	0.77	69.24	53.00	0.41	3.31	4.73	20.94	30.76	68.09	53.00	68.89	***
1.45-1.50	889.	29.87	99.11	70.00	20.91	24.22	24.43	0.04	0.89	4.08	70.00	84.17	***
1.50-1.60	19.	0.64	99.75	5.30	0.03	24.25	24.31	0.00	0.25	1.00	5.30	99.43	***
1.60 SINK	8.	0.25	100.00	1.00	0.00	24.25	24.25	0.0	0.00	0.0	1.00	99.87	***

FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAF	RECOVERY A	AND R	ASH FR	CALCULATIONS FAR	FRAI	FRI	AP
0.1430	0.0	4.0	67.3	0.5754	0.0231	0.0231	.719	3.2
0.1430	0.0	5.0	74.9	0.6420	0.0385	0.0385	.785	4.9
0.1430	0.0	8.0	83.1	0.7123	0.0570	0.0570	.855	6.7
0.1430	0.0	10.0	90.0	0.7719	0.0771	0.0771	.914	8.4
0.1430	0.0	12.0	95.5	0.8160	0.0982	0.0982	.961	10.2
0.1430	0.0	14.0	99.6	0.8534	0.1195	0.1195	.996	12.0
0.1430	0.0	16.0	****	0.8772	0.1403	0.1403	****	13.8
0.1430	0.0	18.0	****	0.8897	0.1601	0.1601	****	15.5
0.1430	0.0	20.0	****	0.8897	0.1779	0.1779	****	17.2

COMPO NUMBER- W054

DRILL HOLE NUMBER- 1754

SEAM NUMBER- 12 38645-648

DATA  
SIZE DISTRIBUTION

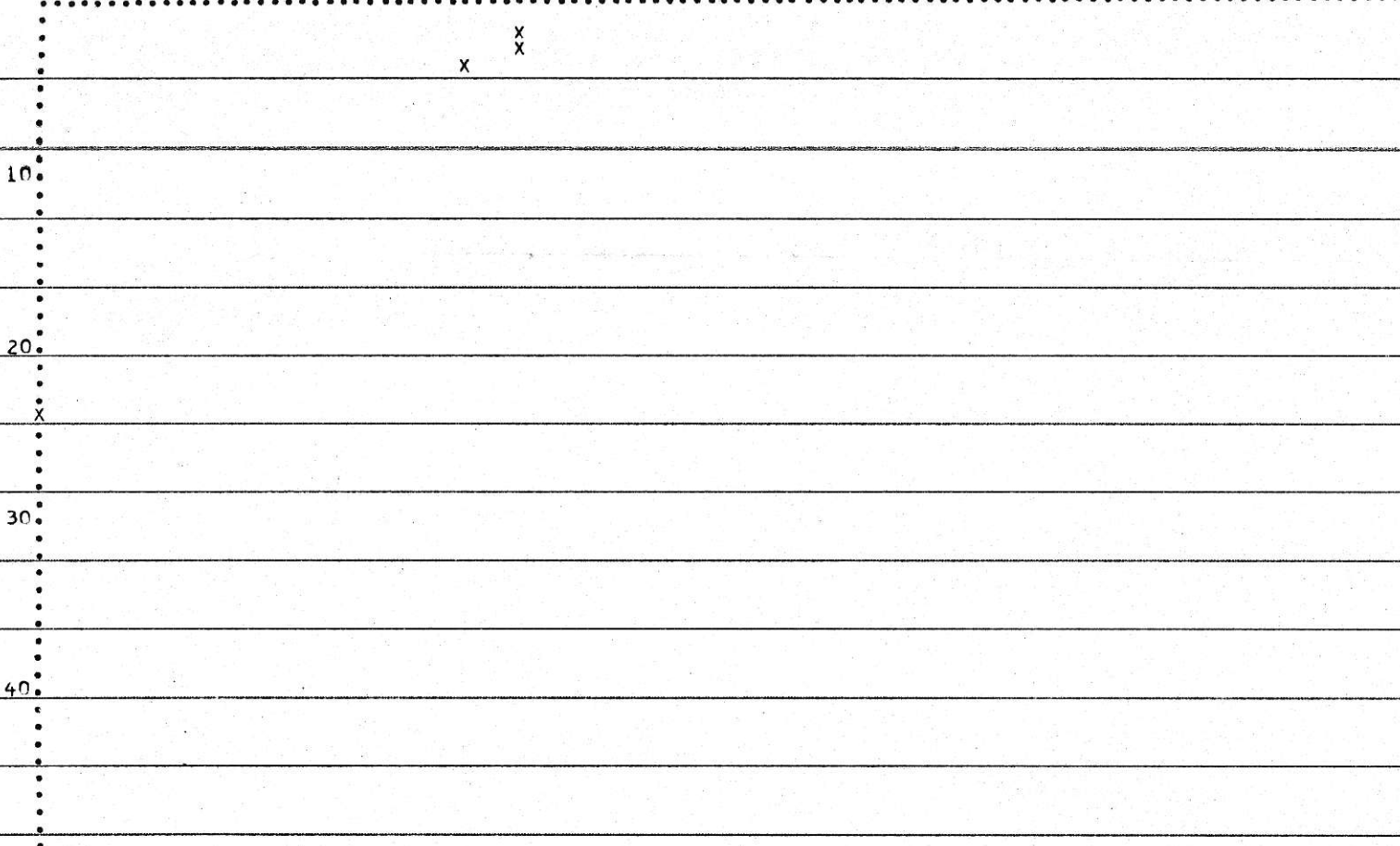
SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MFSH	3971.	85.7	24.3
-28MFSH	651.	14.3	0.0
FEED	4552.	100.0	20.8

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	0.0	100.00		14.30	15.68
PLUS 28	9.92	89.72	3.19	76.89	84.32
COMBINED	8.50	91.19		91.19	100.00
FLOTATION	0.0	100.00		14.30	15.43
PLUS 28	10.50	91.47	3.31	78.39	84.57
COMBINED	9.00	92.69		92.69	100.00
FLOTATION	0.0	100.00		14.30	15.20
PLUS 28	11.09	93.12	3.42	79.80	84.80
COMBINED	9.50	94.10		94.10	100.00
FLOTATION	0.0	100.00		14.30	14.99
PLUS 28	11.67	94.64	3.51	81.11	85.01
COMBINED	10.00	95.41		95.41	100.00

CUMULATIVE FLOATS WEIGHT PERCENT

100 \* 90 \* 80 \* 70 \* 60 \* 50 \* 40 \* 30 \* 20 \* 10 \*



ASH PERCENT

10

20

30

40

50

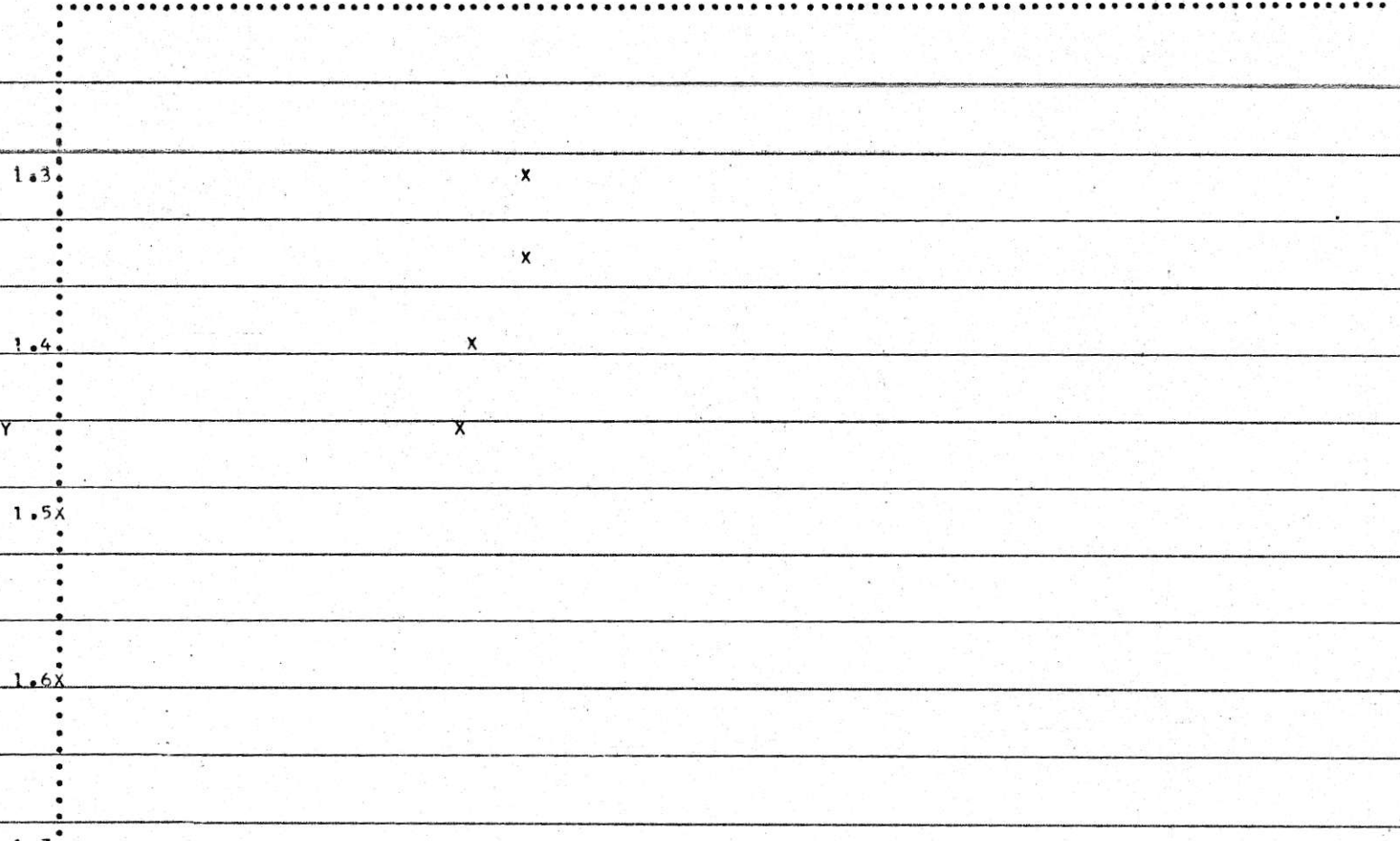
POINTS PLOTTED

X	Y
64	2
64	3
68	4
69	4
99	24
99	24
99	24

CUMULATIVE FLOATS WEIGHT PERCENT

100\* 90\* 80\* 70\* 60\* 50\* 40\* 30\* 20\* 10\*

SPECIFIC GRAVITY



POINTS PLOTFD

X	Y
64	10
64	15
68	20
69	25
99	30
99	40



COMPO NUMBER- W102

DRILL HOLE NUMBER- 1755

SEAM NUMBER- 121682-683

FLOTATION RESULTS

PRODUCT	KEROSENE WEIGHT (GMS)	0.97 WEIGHT %	FROTHER 0.20 ASSAY		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	299.	94.6	5.4	7.5	76.2	95.9
TAILS	17.	5.4	29.7	4.0	23.8	4.1
CALC. HEAD	316.	100.0	6.7		100.0	100.0

TABLE 1

WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

FRACTION ASH WT. CUM. WT. CUM. FLTS. SINKS ASH CUM. SINKS CUM. SINKS ASH FLTS. FSI

TABLE 1

## WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

SG	WT. (GMS.)	WT. %	CUM.WT. %	FRACTION ASH %	ASH WT. OF TOT.	CUM.WT. %	CUM.FLTS. ASH	SINKS WT. %	ASH	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	3072.	77.26	77.26	3.10	2.40	2.40	3.10	4.14	22.74	18.21	3.10	38.63	7.5	
1.30-1.35	492.	12.37	89.64	9.10	1.13	3.52	3.93	3.01	10.36	29.08	9.10	83.45	6.5	
1.35-1.40	178.	4.48	94.11	12.90	0.58	4.10	4.36	2.44	5.89	41.39	12.90	91.88	5.5	
1.40-1.45	131.	3.29	97.41	1.00	0.13	4.13	4.24	2.40	2.59	92.75	1.00	95.76	***	
1.45-1.50	95.	2.39	99.80	78.00	1.86	6.00	6.01	0.54	0.20	*****	78.00	98.60	***	
1.50-1.60	5.	0.11	99.91	*****	0.18	6.18	6.18	0.36	0.09	*****	*****	99.86	***	
1.60 SINK	4.	0.09	100.00	*****	0.36	6.53	6.53	0.00	0.00	0.0	*****	99.96	***	

FOR OPTIMUM RECOVERIES

TABLE 2

RECOVERY AND ASH CALCULATIONS

## FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRF AF	RECOVERY AND ASH CALCULATIONS				FRAI	FRI	AP
		A	R	FR	FAR			
0.0768	0.0041	4.0	92.0	0.8449	0.0338	0.0379	.922	4.1
0.0768	0.0041	6.0	99.6	0.9155	0.0549	0.0591	.992	6.0

COMP. NUMBER- 4102

DRILL HOLE NUMBER- 1755

SEAM NUMBER- 12 41542-1-2

DATA  
SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MESH	4561.	91.9	6.5
-28MESH	473.	8.1	6.7
FEED	4964.	100.0	6.5

TABLE 3

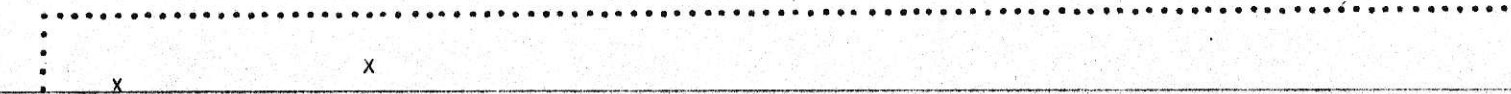
AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	5.40	94.62		7.68	7.72
PLUS 28	6.53	100.00	+1.60	91.98	92.28
COMBINED	6.44	99.56		99.56	100.00
FLOTATION	5.40	94.62		7.68	7.72
PLUS 28	6.53	100.00	+1.60	91.98	92.28
COMBINED	6.44	99.56		99.56	100.00
FLOTATION	5.40	94.62		7.68	7.72
PLUS 28	6.53	100.00	+1.60	91.98	92.28
COMBINED	6.44	99.56		99.56	100.00
FLOTATION	5.40	94.62		7.68	7.72
PLUS 28	6.53	100.00	+1.60	91.98	92.28
COMBINED	6.44	99.56		99.56	100.00

CUMULATIVE FLOATS WEIGHT PERCENT

100 # 90 # 80 # 70 # 60 # 50 # 40 # 30 # 20 # 10 #

CUMULATIVE FLOATS WEIGHT PERCENT

100 \* 90 \* 80 \* 70 \* 60 \* 50 \* 40 \* 30 \* 20 \* 10 \*



10

20

ASH PERCENT

30

40

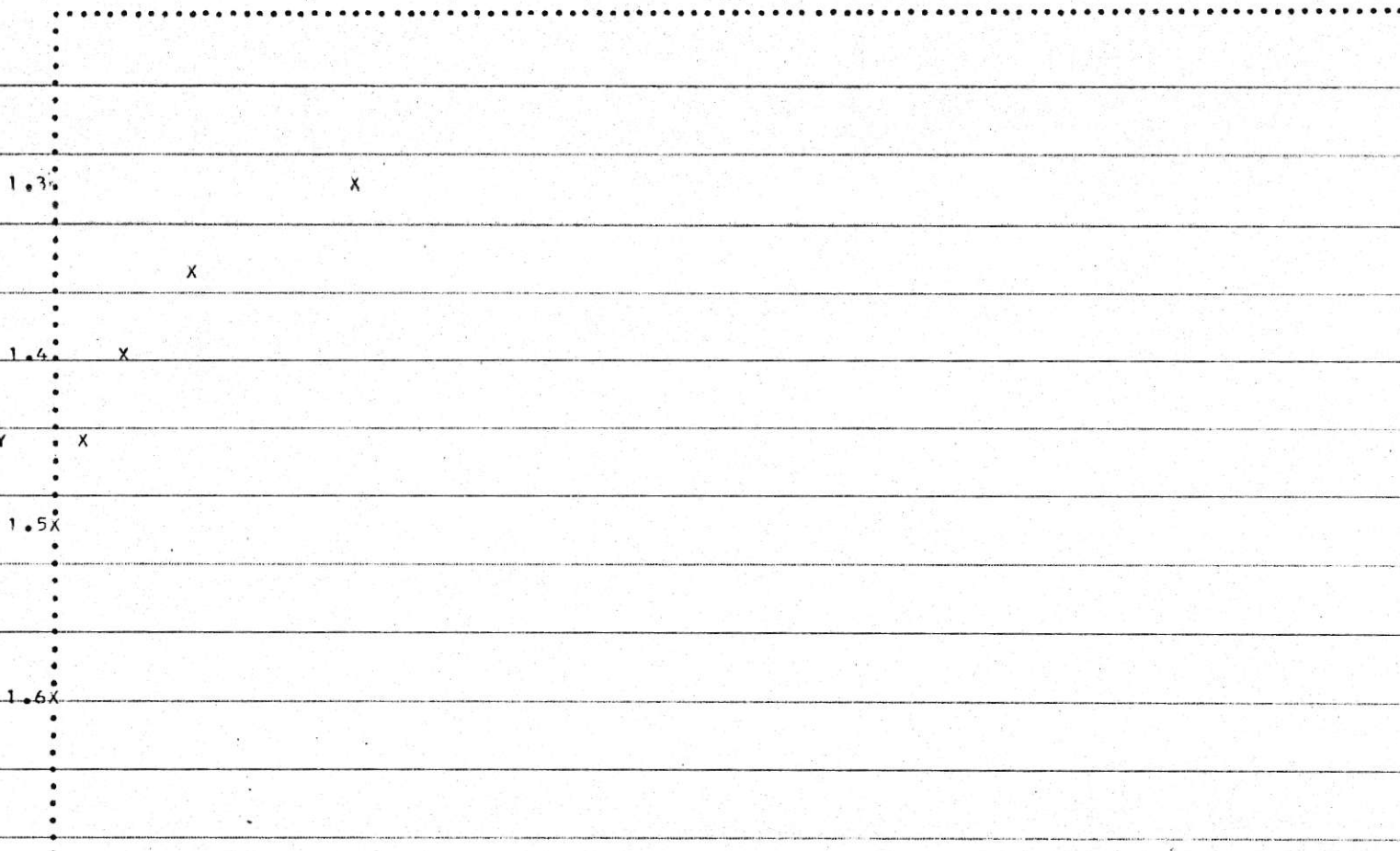
50

POINTS PLOTTED

X	Y
77	3
89	3
94	4
97	4
99	6
99	6
99	6

CUMULATIVE FLOATS WEIGHT PERCENT

100 \* 90 \* 80 \* 70 \* 60 \* 50 \* 40 \* 30 \* 20 \* 10 \*



SPECIFIC GRAVITY

1.7 \* POINTS PLOTTED

X	Y
77	10
89	15
94	20
97	25
93	30
99	40

COMPO NUMBER- 4103

DRILL HOLE NUMBER- 1755

SEAM NUMBER- 12 41645-698

FLOTATION RESULTS

KEROSENE 0.97

FROTHER 0.20

PRODUCT	WEIGHT (GMS)	WEIGHT %	ASSAY		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	303.	92.1	12.4	7.5	64.9	97.9
TAILS	26.	7.9	78.0	0.0	35.1	2.1
CALC. HEAD	329.	100.0	17.6		100.0	100.0

TABLE 1

WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

WGT. FINE ASH CUM. STKS. CUM. STKS. ASH ELTS. FSI

TABLE 1

## WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

SG	WT. (GMS.)	WT. %	CUM.WT. %	FRACTION ASH %	ASH WT. OF TOT.	CUM.WT. %	CUM.FLTS. ASH	SINKS WT. %	ASH	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	970.	21.85	21.85	7.90	0.63	0.63	2.90	39.86		78.15	51.01	7.90	17.93	8.0
1.30-1.35	481.	17.39	32.24	7.90	0.82	1.45	4.51	39.04		67.76	57.62	7.90	27.04	6.5
1.35-1.40	224.	5.05	37.28	13.00	0.65	2.11	5.65	38.39		62.72	61.21	13.00	34.76	5.0
1.40-1.45	201.	4.53	41.81	19.10	0.96	2.97	7.12	37.52		58.19	64.48	19.10	39.55	3.0
1.45-1.50	147.	3.31	45.12	23.60	0.78	3.76	8.33	36.74		54.88	66.95	23.60	43.47	2.5
1.50-1.60	204.	4.60	49.72	30.30	1.39	5.15	10.36	35.35		50.28	70.30	30.30	47.42	2.0
1.60 SINK	2232.	50.28	100.00	70.30	35.35	40.50	40.50	0.00		0.00	0.0	70.30	74.86	0.5



FOR OPTIMUM RESULTS

TABLE 2

FFRF	FFRFAF	RECOVERY AND ASH CALCULATIONS		FR	FAR	FRAI	FRI	AP
		A	R					
0.0818	0.0101	4.0	29.4	0.2676	0.0107	0.0208	.349	6.0
0.0818	0.0101	6.0	33.5	0.3605	0.0219	0.0312	.432	7.2
0.0818	0.0101	8.0	44.3	0.4035	0.0323	0.0424	.485	8.7
0.0818	0.0101	10.0	49.0	0.4461	0.0446	0.0548	.528	10.4
0.0818	0.0101	12.0	53.3	0.4859	0.0583	0.0684	.568	12.1
0.0818	0.0101	14.0	57.6	0.5247	0.0735	0.0836	.606	13.8
0.0818	0.0101	16.0	61.7	0.5621	0.0899	0.1001	.644	15.5
0.0818	0.0101	18.0	65.6	0.5982	0.1077	0.1178	.680	17.3
0.0818	0.0101	20.0	69.5	0.6329	0.1266	0.1367	.715	19.1

COMPO NUMBER- 103

DRILL HOLE NUMBER- 1755

SEAM NUMBER- 7 41676-698

## DATA

## SIZE DISTRIBUTION

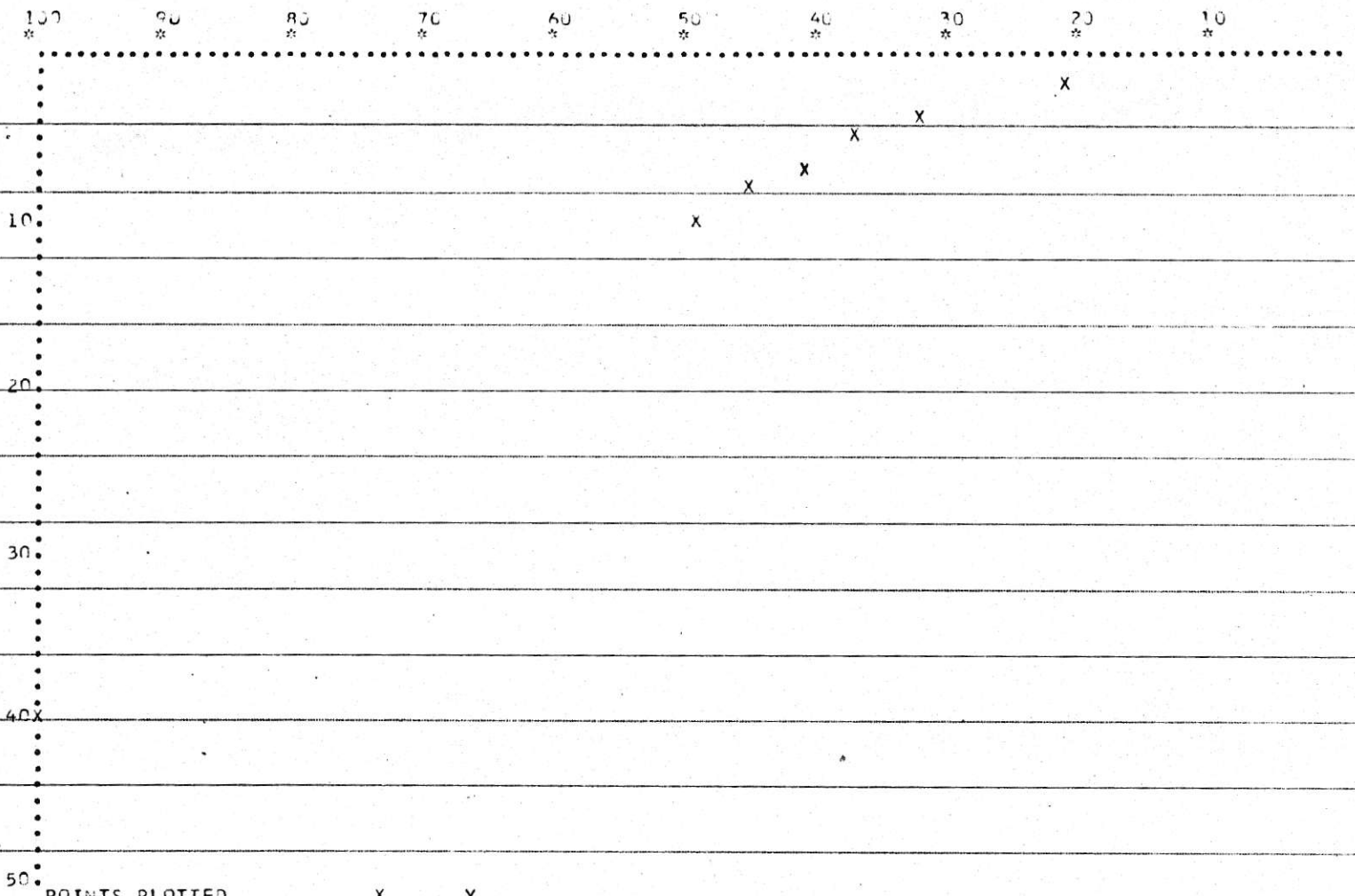
SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MESH	4515.	91.1	40.5
-28MESH	440.	8.9	17.6
FEED	4955.	100.0	38.54

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	12.40	92.10		8.18	16.75
PLUS 28	8.12	44.59	1.49	40.63	83.25
COMBINED	8.50	48.81		48.81	100.00
FLOTATION	12.40	92.10		8.18	16.34
PLUS 28	8.67	45.95	1.52	41.87	83.66
COMBINED	9.00	50.05		50.05	100.00
FLOTATION	12.40	92.10		8.18	15.97
PLUS 28	9.22	47.23	1.54	43.03	84.03
COMBINED	9.50	51.21		51.21	100.00
FLOTATION	12.40	92.10		8.18	15.63
PLUS 28	9.77	48.45	1.57	44.15	84.37
COMBINED	10.00	52.33		52.33	100.00

*Due to low  
ash content*

CUMULATIVE FLOATS WEIGHT PERCENT



ASH PERCENT

POINTS PLOTTED

X	Y
21	2
32	4
37	5
41	7
45	8
49	10
99	40

CUMULATIVE FLOATS WEIGHT PERCENT

100 \* 90 \* 80 \* 70 \* 60 \* 50 \* 40 \* 30 \* 20 \* 10 \*

1.3

X

X

1.4

X

SPECIFIC GRAVITY

X

1.5

X

1.6

X

1.7

POINTS PLOTTED

X	Y
21	10
32	15
37	20
41	25
45	30
49	40

COMPO NUMBER- W101

DRILL HOLE NUMBER- (1755)

SEAM NUMBER- (3) 41676-679

FLOTATION RESULTS

KEROSENE 0.97 FROTHER 0.20

PRODUCT	WEIGHT (GMS)	WEIGHT %	ASSAY		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	289.	87.8	7.2	6.0	52.2	92.8
TAILS	40.	12.2	47.6	2.0	47.8	7.2
CALC. HEAD	329.	100.0	12.1		100.0	100.0

TABLE 1

TABLE 1

## WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

SG	WT. (GMS.)	WT. %	CUM.WT. %	FRACTION ASH %	ASH WT. OF TOT.	CUM.WT. %	CUM.FLTS. ASH	SINKS WT. %	ASH WT. %	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	3151.	70.89	70.89	2.80	1.98	1.98	2.80	7.98	29.11	27.43	2.80	35.44	7.0	
1.30-1.35	476.	10.71	81.60	6.70	0.72	2.70	3.31	7.27	18.40	39.49	6.70	76.24	1.5	
1.35-1.40	210.	4.72	86.32	10.60	0.50	3.20	3.71	6.77	13.68	49.47	10.60	83.96	1.5	
1.40-1.45	116.	2.61	88.93	15.00	0.39	3.59	4.04	6.38	11.07	57.60	15.00	87.63	1.0	
1.45-1.50	56.	1.26	90.19	17.60	0.22	3.82	4.23	6.15	9.81	62.73	17.60	89.56	2.0	
1.50-1.60	64.	1.44	91.63	23.40	0.34	4.15	4.53	5.82	8.37	69.50	23.40	90.91	1.5	
1.60 SINK	372.	8.37	100.00	69.50	5.82	9.97	9.97	0.00	0.00	0.0	69.50	95.82	0.5	

## FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAF	RECOVERY		AND ASH CALCULATIONS		FRAT	FRI	AP
		A	R	FR	FAR			
0.0945	0.0068	4.0	89.8	0.7926	0.0317	0.0385	.887	4.3
0.0945	0.0068	6.0	97.2	0.8672	0.0527	0.0588	.962	6.1
0.0945	0.0068	8.0	***	0.8998	0.0720	0.0788	.994	7.9

COMPO NUMBER- W101

DRILL HOLE NUMBER- 1755

SEAM NUMBER-13 41676-679

DATA  
SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MESH	4520.	89.2	10.0
-28MESH	545.	10.8	12.1
FEED	5065.	100.0	10.2

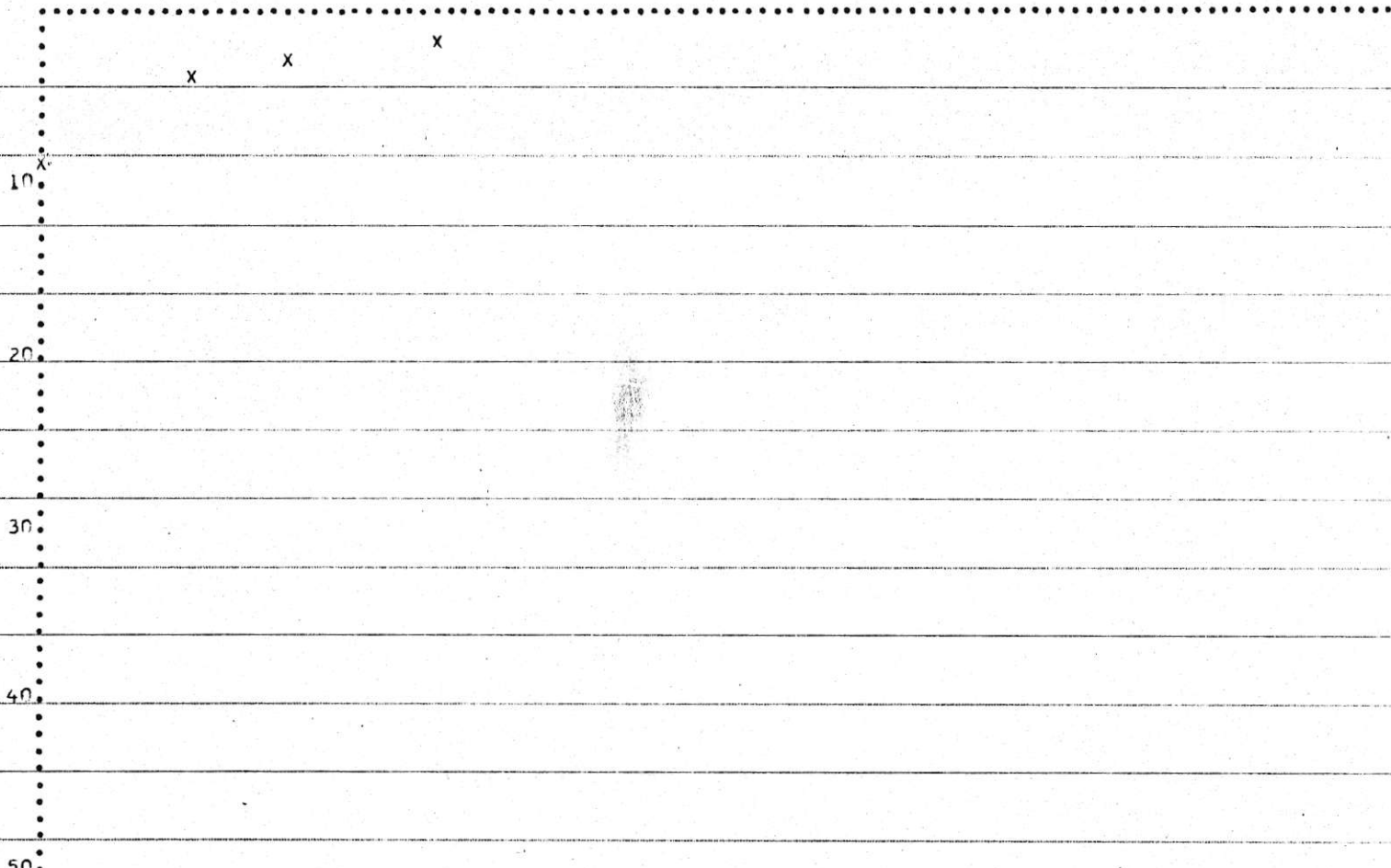
TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	7.20	87.84		9.45	9.49
PLUS 28	8.66	101.04	+1.60	90.17	90.51
COMBINED	8.50	99.62		99.62	100.00
FLOTATION	7.20	87.84		9.45	9.53
PLUS 28	9.72	100.60	+1.60	89.77	90.47
COMBINED	9.00	99.72		99.72	100.00
FLOTATION	7.20	87.84		9.45	9.56
PLUS 28	9.78	100.15	+1.60	89.78	90.44
COMBINED	9.50	98.83		98.83	100.00
FLOTATION	7.20	87.84		9.45	9.58
PLUS 28	9.97	100.00	+1.60	89.24	90.42
COMBINED	9.67	98.69		98.69	100.00



CUMULATIVE FLOATS WEIGHT PERCENT

100 \* 90 \* 80 \* 70 \* 60 \* 50 \* 40 \* 30 \* 20 \* 10 \*



ASH PERCENT

10  
20  
30  
40  
50

POINTS PLOTTED

X	Y
70	2
81	3
86	3
88	4
90	4
91	4
99	9

CUMULATIVE FLOATS WEIGHT PERCENT

100 \* 90 \* 80 \* 70 \* 60 \* 50 \* 40 \* 30 \* 20 \* 10 \*

CUMULATIVE FLOATS WEIGHT PERCENT

100\* 90\* 80\* 70\* 60\* 50\* 40\* 30\* 20\* 10\*

1.3

x

x

1.4

x

SPECIFIC GRAVITY

x

1.5

x

1.6

x

1.7

POINTS PLOTTED

X	Y
70	10
81	15
86	20
88	25
90	30
91	40

COMPO. NUMBER- W104

DRILL HOLE NUMBER- 1755

SEAM NUMBER- 7 47376-379

FLOTATION RESULTS

KEROSENE 0.97

FROTHER 0.20

PRODUCT	WEIGHT (GMS)	WEIGHT %	ASSAY		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	323.	27.6	4.7	7.0	76.6	99.0
TAILS	8.	2.4	60.4	1.0	23.4	1.0
CALC. HEAD	331.	100.0	6.2		100.0	100.0

TABLE 1

## WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

SG	WT. (G/S.)	WT. %	CUM.WT. %	FRACTION ASH %	ASH WT. OF TOT.	CUM.WT. %	CUM.FLTS. ASH	SINKS ASH WT. %	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	744.	51.96	51.96	3.00	1.56	1.56	3.00	14.67	48.04	30.52	3.00	25.98	8.5
30-1.35	246.	17.18	69.13	7.60	1.31	2.86	4.14	13.36	30.87	43.28	7.60	60.54	6.5
35-1.40	105.	7.33	76.47	10.50	0.77	3.63	4.75	12.59	23.53	53.50	10.50	72.80	3.0
40-1.45	44.	3.07	79.54	15.60	0.48	4.11	5.17	12.11	20.46	59.19	15.60	78.00	2.5
45-1.50	28.	1.96	81.49	19.60	0.38	4.50	5.52	11.73	18.51	63.37	19.60	80.52	1.0
50-1.60	33.	2.30	83.80	26.60	0.61	5.11	6.10	11.11	16.20	68.60	26.60	82.65	1.0
60 SINK	232.	16.20	100.00	68.60	11.11	16.22	16.22	0.0	0.00	0.0	68.60	91.90	0.5

FOR OPTIMUM RECOVERIES

TABLE 2

TABLE 2

FFRF	FFRFAP	RECOVERY A	AND ASH R	CALCULATIONS		FRAI	FRI	AP
				FP	FAP			
0.1810	0.0089	4.0	67.2	0.5476	0.0219	0.0308	.779	4.2
0.1810	0.0089	6.0	83.4	0.6773	0.0408	0.0496	.860	5.8
0.1810	0.0089	8.0	90.3	0.7356	0.0588	0.0677	.917	7.4
0.1810	0.0089	10.0	95.4	0.7773	0.0777	0.0866	.958	9.0
0.1810	0.0089	12.0	98.8	0.8045	0.0965	0.1054	.986	10.7
0.1810	0.0089	14.0	***	0.8173	0.1144	0.1233	.998	12.3
0.1810	0.0089	16.0	***	0.8156	0.1305	0.1394	.997	14.0

COMPO NUMBER- W104

DRILL HOLE NUMBER- 1755

SEAM NUMBER- R13 47376-379

## DATA

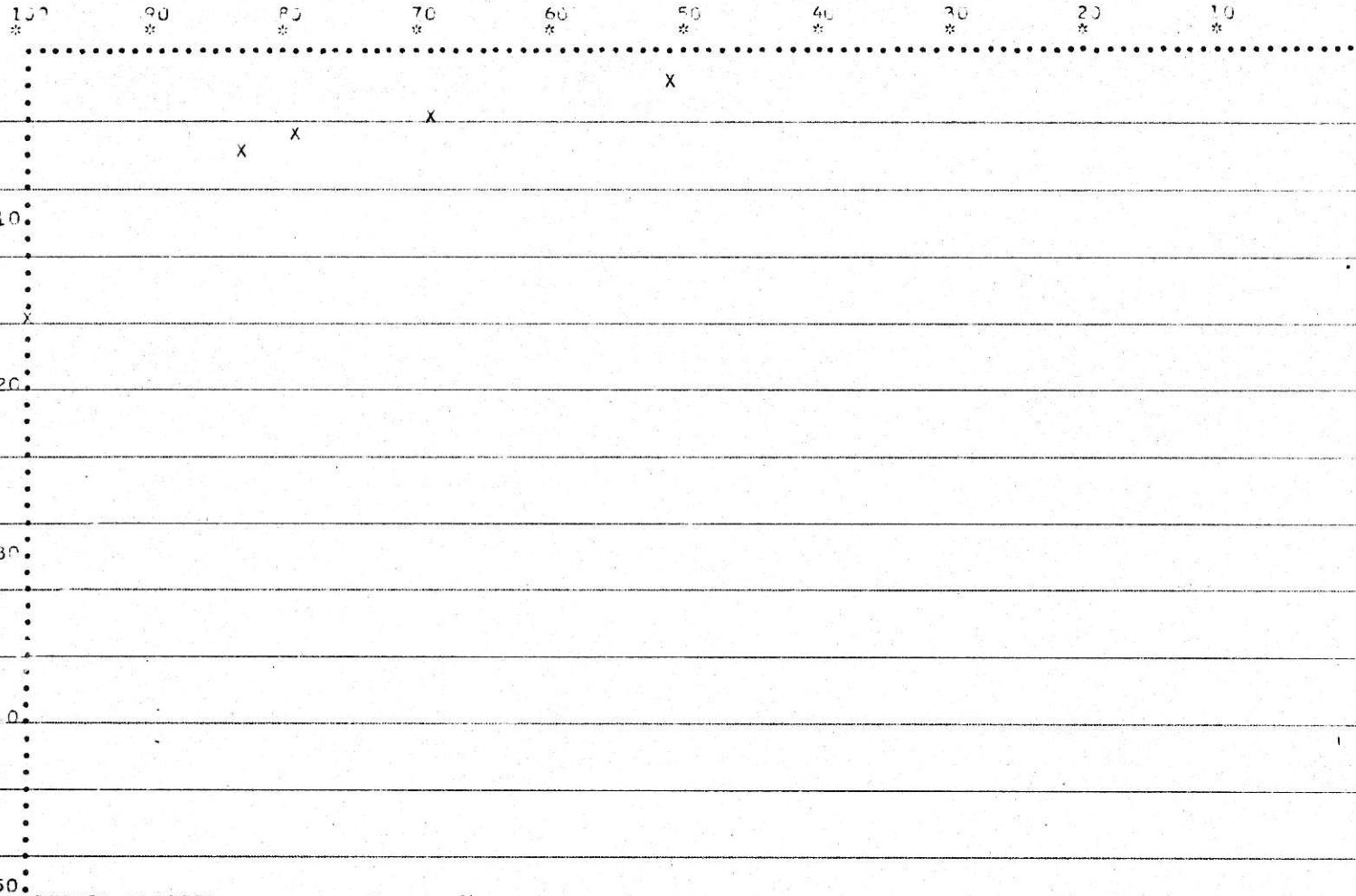
## SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MESH	1484.	81.4	15.2
-28MESH	338.	18.6	5.2
FEED	1822.	100.0	14.4

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	4.90	97.58		18.10	19.14
PLUS 28	9.32	93.89	+1.60	76.47	87.86
COMBINED	8.50	94.58		94.58	100.00
FLOTATION	4.90	97.58		18.10	18.91
PLUS 28	9.93	95.79	+1.60	77.61	81.09
COMBINED	9.00	95.72		95.72	100.00
FLOTATION	4.90	97.58		18.10	18.72
PLUS 28	10.55	96.52	+1.60	78.62	81.28
COMBINED	9.50	96.72		96.72	100.00
FLOTATION	4.90	97.58		18.10	18.55
PLUS 28	11.16	97.59	+1.60	79.49	81.45
COMBINED	10.00	97.59		97.59	100.00

CUMULATIVE FLOATS WEIGHT PERCENT



POINTS PLOTTED

X	Y
51	2
69	4
76	4
79	5
81	5
83	6
99	16

CUMULATIVE FLOATS WEIGHT PERCENT

100 \* 90 \* 80 \* 70 \* 60 \* 50 \* 40 \* 30 \* 20 \* 10 \*

1.3

X

X

1.4

X

SPECIFIC GRAVITY

X

1.5

X

1.6

X

1.7

POINTS PLOTTED

X	Y
51	10
69	15
74	20
79	25
81	30
83	40



COMP. NUMBER- 105

DRILL HOLE NUMBER- 1755

SEAM NUMBER- 213 47381-383

FLOTATION RESULTS

PRODUCT	WEIGHT (GMS)	WEIGHT %	ASSAY		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	310.	96.9	5.9	8.5	71.5	99.1
TAILS	10.	3.1	72.6	0.0	28.4	0.9
CALC. HEAD	320.	100.0	8.0		100.0	100.0

TABLE 1

## WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

SG	WT. (GAS.)	WT. %	CUM.WT. %	FRACTION ASH %	ASH WT. OF TOT.	CUM.WT. %	CUM.FLTS. ASH	SINKS WT. %	ASH WT. %	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	1898.	55.37	55.37	3.00	1.66	1.66	3.00	17.17	44.63	38.48	3.00	27.68	8.0	
1.30-1.35	385.	11.23	66.60	8.60	0.97	2.63	3.94	16.21	33.40	48.52	8.60	50.98	7.0	
1.35-1.40	210.	6.13	72.72	13.20	0.81	3.44	4.72	15.40	27.28	56.46	13.20	69.66	6.5	
1.40-1.45	118.	3.44	76.17	18.00	0.62	4.06	5.32	14.78	23.83	62.01	18.00	74.45	5.0	
1.45-1.50	67.	1.95	78.12	22.00	0.43	4.49	5.74	14.35	21.88	65.58	22.00	77.14	5.0	
1.50-1.60	73.	2.13	80.25	30.20	0.64	5.13	6.39	13.71	19.75	69.40	30.20	79.19	5.0	
1.60 SINK	677.	19.75	100.00	69.40	13.71	18.83	18.83	0.0	0.00	0.0	69.40	90.13	0.5	

FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAP	RECOVERY		AND ASH CALCULATIONS		FRAI	FRI	AP
		A	R	FR	FAR			
0.1134	0.0067	4.0	67.1	0.5926	0.0237	0.0304	.706	4.3
0.1134	0.0067	6.0	79.1	0.6981	0.0419	0.0486	.812	6.0
0.1134	0.0067	8.0	85.1	0.7511	0.0601	0.0668	.864	7.7
0.1134	0.0067	10.0	90.1	0.7956	0.0796	0.0862	.909	9.5
0.1134	0.0067	12.0	94.1	0.8310	0.0997	0.1064	.944	11.3
0.1134	0.0067	14.0	97.1	0.8573	0.1200	0.1267	.971	13.1
0.1134	0.0067	16.0	99.0	0.8744	0.1399	0.1466	.983	14.8
0.1134	0.0067	18.0	99.9	0.8823	0.1588	0.1655	.995	16.6

COMPO NUMBER- 105

DRILL HOLE NUMBER- 1755

SEAM NUMBER- R12 47381-363

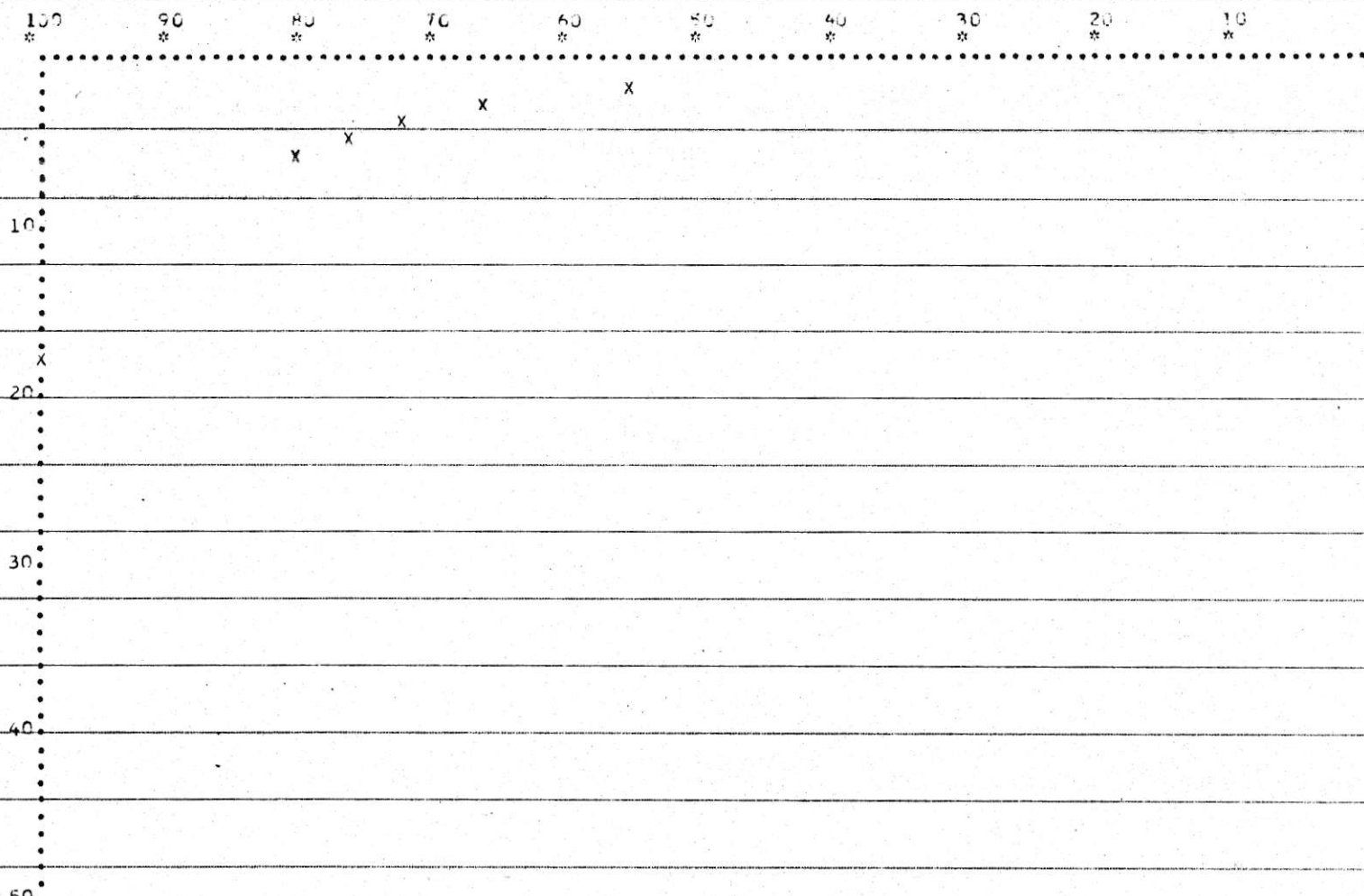
DATA  
SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+20MESH	3478.	83.3	18.8
-20MESH	461.	11.7	8.0
FEED	3939.	100.0	17.6

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 20 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	5.90	96.88		11.34	12.82
PLUS 20	8.84	87.32	+1.60	77.10	87.18
COMBINED	8.50	88.44		88.44	100.00
FLOTATION	5.90	96.88		11.34	12.64
PLUS 20	9.41	88.73	+1.60	78.34	87.36
COMBINED	9.00	89.68		89.68	100.00
FLOTATION	5.90	96.88		11.34	12.48
PLUS 20	9.93	90.05	+1.60	79.51	87.52
COMBINED	9.50	90.85		90.85	100.00
FLOTATION	5.90	96.88		11.34	12.33
PLUS 20	10.54	91.30	+1.60	80.61	87.67
COMBINED	10.00	91.95		91.95	100.00

CUMULATIVE FLOATS WEIGHT PERCENT



ASH PERCENT

POINTS PLOTTED

X	Y
55	2
66	3
72	4
76	5
78	5
80	6
90	18

CUMULATIVE FLOATS WEIGHT PERCENT

100 \* 90 \* 80 \* 70 \* 60 \* 50 \* 40 \* 30 \* 20 \* 10 \*

1.3 X

X

1.4 X

SPECIFIC GRAVITY

X

1.5 X

1.6 X

1.7 POINTS PLOTTED

X	Y
55	10
66	15
72	20
76	25
78	30
80	40

COMPO NUMBER- 106

DRILL HOLE NUMBER- 1755

SFAM NUMBER- R12 47341-394

FLUTATION RESULTS

PRODUCT	WEIGHT (GMS)	WEIGHT %	ASSAY		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	311.	96.9	7.4	6.5	77.3	98.9
TAILS	10.	3.1	67.4	0.5	22.7	1.1
CALC. HEAD	321.	100.0	9.3		100.0	100.0

TABLE 1

WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

SG	WT. (GMS)	WT. %	CUM. WT. %	FRACTION	ASH WT. %	CUM. WT. %	CUM. FLTS. %	SINKS	ASH WT. %	CUM. SINKS	CUM. SINKS	ASH	FLTS.	FSI
								WT. %		WT. %	WT. %	WT. %	CONTENT	YIELD

TABLE 1

## WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

SG	WT. (GMS.)	WT. %	CUM.WT. %	FRACTION ASH %	ASH WT. OF TOT.	CUM.WT. %	CUM.FLTS. ASH	SINKS WT. %	ASH	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	944.	25.36	25.36	3.40	0.86	0.86	3.40	17.25	74.64	23.11	3.40	12.68	7.0	
1.30-1.35	856.	21.66	47.02	6.50	1.41	2.27	4.83	15.84	52.98	29.90	6.50	36.19	2.0	
1.35-1.40	580.	15.58	62.60	10.20	1.59	3.86	6.17	14.25	37.40	38.11	10.20	54.81	1.0	
1.40-1.45	282.	7.58	70.18	10.40	0.79	4.65	6.62	13.46	29.82	45.15	10.40	65.39	1.0	
1.45-1.50	159.	4.27	74.45	14.00	0.60	5.25	7.05	12.87	25.55	50.35	14.00	72.31	1.0	
1.50-1.60	217.	5.83	80.28	27.20	1.59	6.83	8.51	11.28	19.72	57.20	27.20	77.36	1.0	
1.60 SINK	734.	19.72	100.00	57.20	11.28	18.11	18.11	0.0	0.00	0.0	57.20	90.14	0.5	



FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAF	RECOVERY AND ASH CALCULATIONS		FR	FAR	FRAT	FRI	AP
		A	R					
0.1279	0.0095	4.0	35.1	0.3344	0.0122	0.0216	.433	5.0
0.1279	0.0095	6.0	60.5	0.5256	0.0315	0.0410	.653	8.3
0.1279	0.0095	8.0	79.1	0.6865	0.0549	0.0644	.814	7.9
0.1279	0.0095	10.0	85.4	0.7417	0.0742	0.0836	.870	9.6
0.1279	0.0095	12.0	91.2	0.7914	0.0930	0.1044	.919	11.4
0.1279	0.0095	14.0	95.5	0.8289	0.1160	0.1255	.957	13.1
0.1279	0.0095	16.0	99.4	0.8543	0.1367	0.1462	.982	14.9
0.1279	0.0095	18.0	****	0.8676	0.1562	0.1656	.996	15.6

COMP. NUMBER- 106

DRILL HOLE NUMBER- 1755

SEAM NUMBER- R7 47391-394

DATA

SIZE DISTRIBUTION

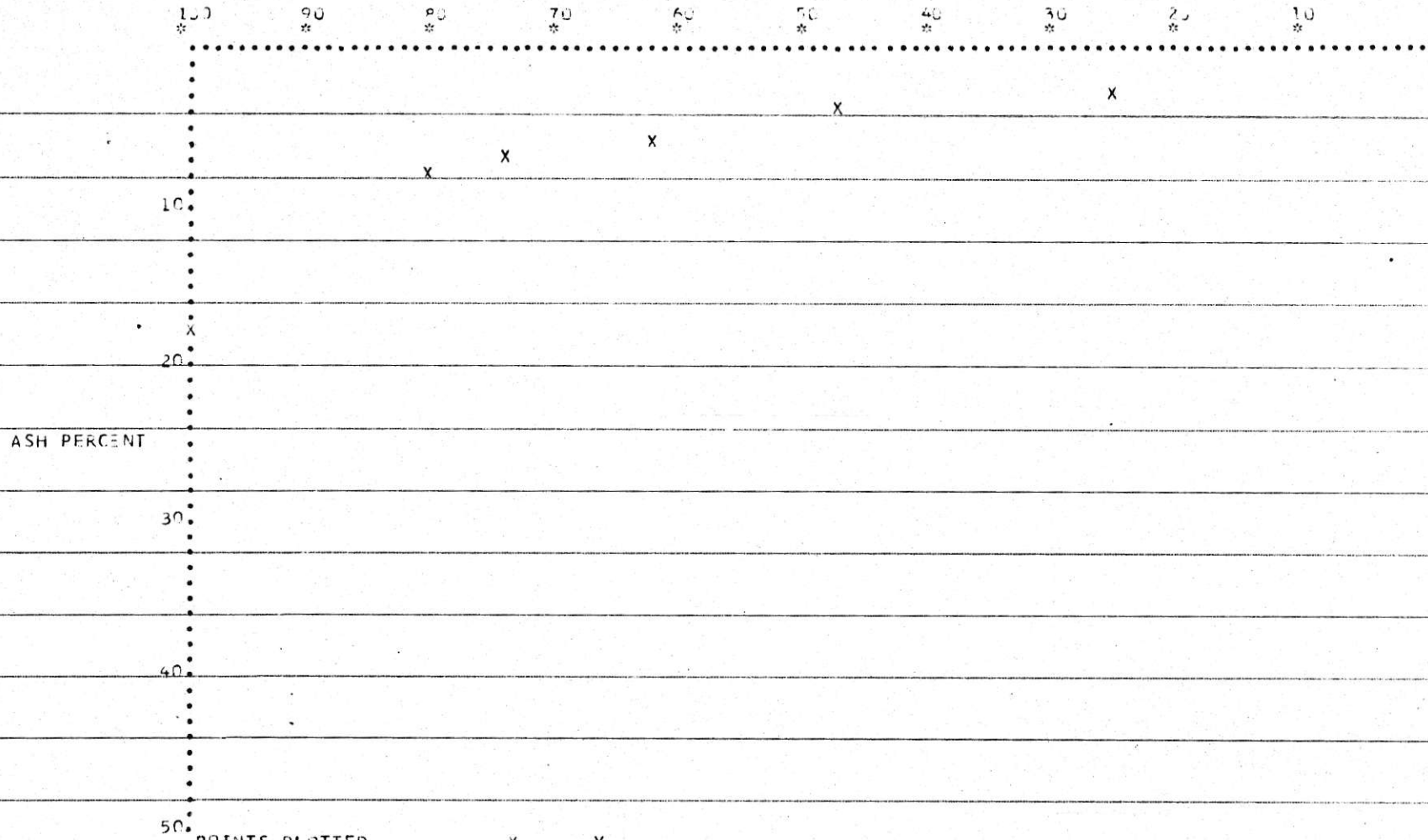
SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MESH	3769.	86.8	18.1
-28MESH	573.	13.2	9.3
FEED	4342.	100.0	18.8

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	7.40	96.88		12.79	15.41
PLUS 28	8.67	86.86	+1.60	70.19	84.59
COMBINED	8.50	82.98		82.98	100.00
FLOTATION	7.40	96.88		12.79	15.78
PLUS 28	9.24	82.92	+1.60	71.28	84.92
COMBINED	9.00	84.76		84.76	100.00
FLOTATION	7.40	96.88		12.79	14.79
PLUS 28	9.82	84.86	+1.60	73.66	85.21
COMBINED	9.50	86.45		86.45	100.00
FLOTATION	7.40	96.88		12.79	14.52
PLUS 28	10.40	86.69	+1.60	75.25	85.48
COMBINED	10.00	88.04		88.04	100.00

CUMULATIVE FLOATS WEIGHT PERCENT

CUMULATIVE FLOATS WEIGHT PERCENT



ASH PERCENT

POINTS PLOTTED

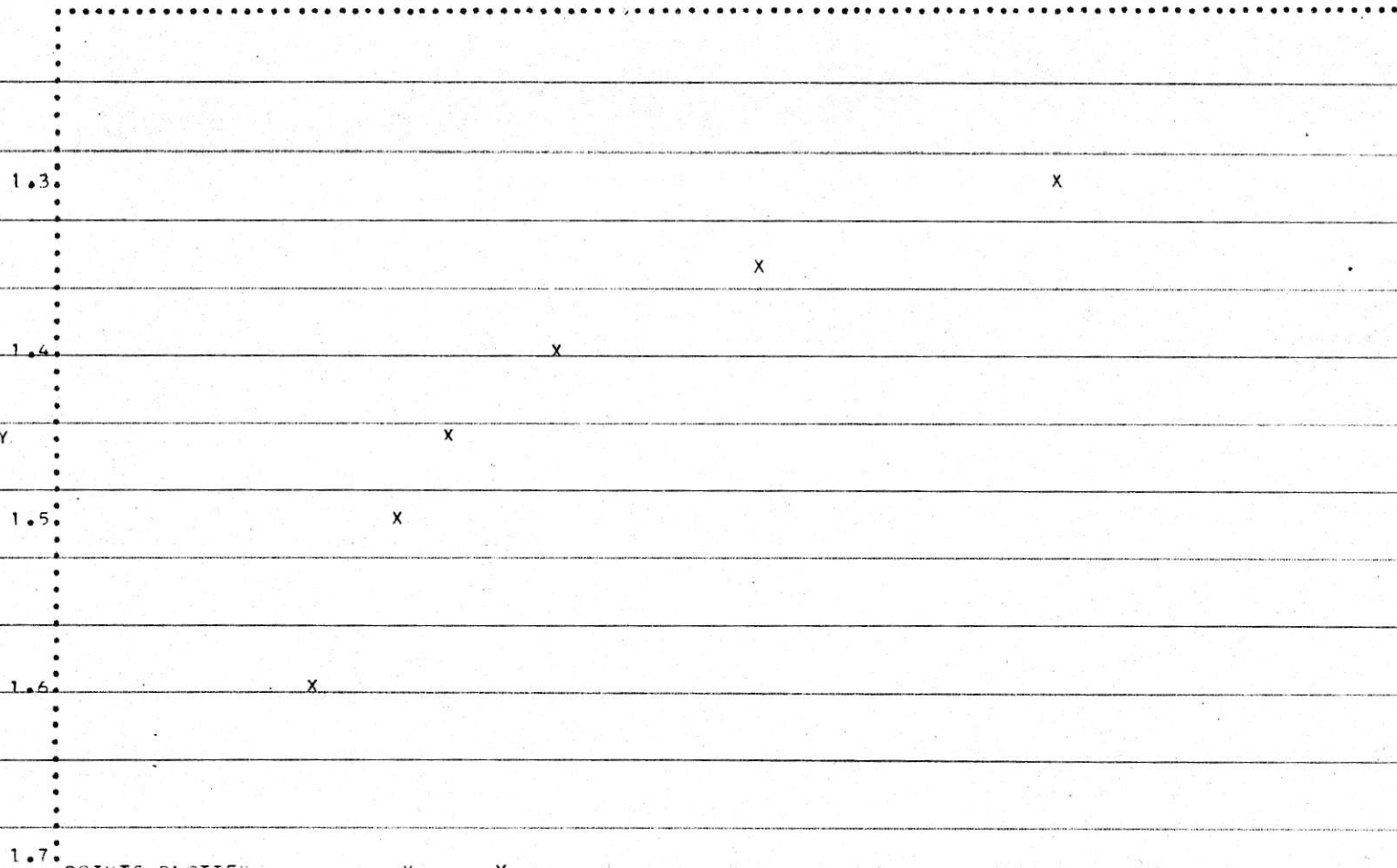
X	Y
25	3
47	4
67	6
70	6
74	7
80	8
99	18

1755

CUMULATIVE FLOATS WEIGHT PERCENT

100 \* 90 \* 80 \* 70 \* 60 \* 50 \* 40 \* 30 \* 20 \* 10 \*

SPECIFIC GRAVITY



1.7 POINTS PLOTTED

X	Y
25	10
47	15
62	20
72	25
74	30
80	40

COMP. NUMBER- 4120

DRILL HOLE NUMBER- 1756

SEAM NUMBER- 4725-307

FLOTATION RESULTS

1857-1883

PRODUCT	KEROSENE 0.90 WEIGHT (GMS)	WEIGHT %	ASSAY		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	302.	93.2	11.8	7.5	79.2	95.5
TAILS	22.	6.8	42.6	2.0	20.8	4.5
CALC. HEAD	324.	100.0	13.9		100.0	100.0

TABLE 1

WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

PRINTED IN CANADA  
P. L. CRAIN, INC.

TABLE 1

## WASHABILITY CURVE CALCULATIONS FOR (+2R4F5H) FRACTION

SG	WT. (GMS.)	WT. %	CUM. WT. %	FRACTION ASH %	ASH WT. OF TOT.	CUM. WT. %	CUM. FLTS. % ASH	SINKS WT. %	ASH WT. %	CUM. SINKS WT. %	CUM. SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	1420.	45.59	45.59	4.60	2.10	2.10	4.60	9.52	54.41	17.49	4.60	22.79	8.0	
1.30-1.35	766.	24.59	70.18	7.40	1.82	3.92	5.58	7.70	29.82	25.81	7.40	57.88	5.5	
1.35-1.40	193.	6.20	76.37	9.50	0.59	4.51	5.90	7.11	23.64	30.08	9.50	73.27	3.9	
1.40-1.45	193.	6.20	82.57	13.10	0.81	5.32	6.44	6.30	17.43	36.12	13.10	79.47	3.0	
1.45-1.50	124.	3.98	86.55	18.90	0.75	6.07	7.01	5.54	13.45	41.21	18.90	84.56	2.0	
1.50-1.60	99.	3.18	89.73	25.10	0.80	6.87	7.65	4.75	10.27	46.20	25.10	88.14	1.5	
1.60 SINK	320.	10.27	100.00	46.20	4.75	11.61	11.61	0.00	0.00	0.00	46.20	94.86	1.0	

FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRF AF	RECOVERY AND ASH CALCULATIONS						
		RECOVERY Ash	AND ASH Recov.	FR	FAR	FRAI	FRI	AP
0.0909	0.0107	4.0	26.5	0.2389	0.0096	0.0203	.330	6.1
0.0909	0.0107	6.0	77.9	0.7028	0.0422	0.0529	.794	6.7
0.0909	0.0107	8.0	91.3	0.8238	0.0659	0.0766	.915	8.4
0.0909	0.0107	10.0	97.8	0.8824	0.0882	0.0990	.973	10.2

PRINTED IN CANADA

R. L. CRAIG INC.

COMPO NUMBER- W127

DRILL HOLE NUMBER- 1756

SEAM NUMBER- 47355-352

DATA

SIZE DISTRIBUTION

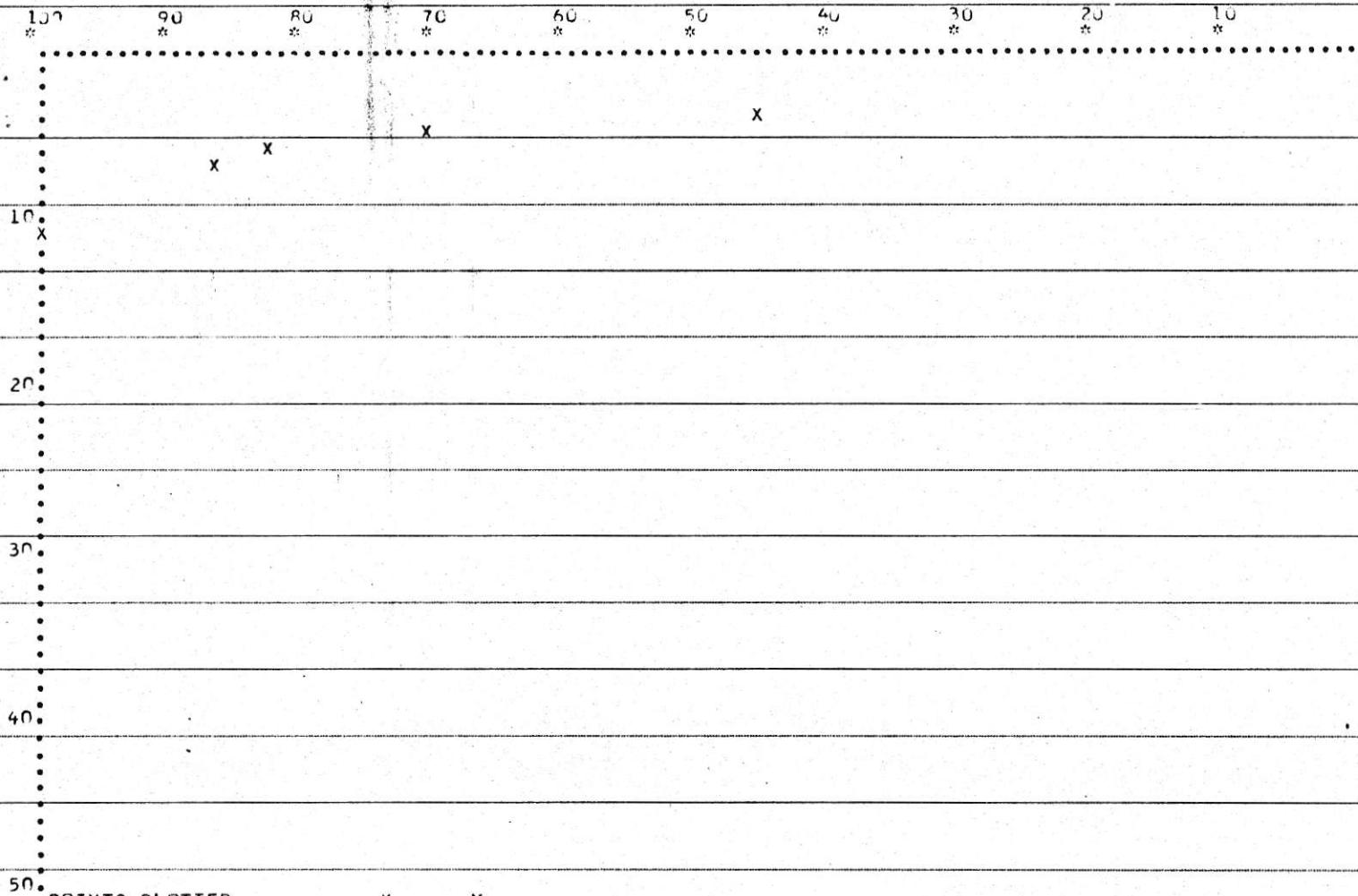
SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MESH	3184.	90.2	11.6
-28MESH	344.	9.8	13.9
FEED	4528.	100.0	11.8

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	11.80	93.21		9.09	9.88
PLUS 28	8.14	91.89	+1.60	82.93	90.12
COMBINED	8.50	92.02		92.02	100.00
FLOTATION	11.80	93.21		9.09	9.68
PLUS 28	8.70	94.01	+1.60	84.85	90.32
COMBINED	9.00	93.94		93.94	100.00
FLOTATION	11.80	93.21		9.09	9.51
PLUS 28	9.25	95.83	+1.60	86.48	90.49
COMBINED	9.50	95.57		95.57	100.00
FLOTATION	11.80	93.21		9.09	9.33
PLUS 28	9.81	97.32	+1.60	87.83	90.62
COMBINED	10.00	96.92		96.92	100.00



CUMULATIVE FLUATS WEIGHT PERCENT



POINTS PLOTTED	X	Y
45	70	4
70	76	5
76	82	6
82	86	7
86	89	7
89	99	11

CUMULATIVE FLOATS WEIGHT PERCENT

100\* 90\* 80\* 70\* 60\* 50\* 40\* 30\* 20\* 10\*

1.3

X

X

1.4

X

SPECIFIC GRAVITY

X

1.5

X

1.6

X

1.7

POINTS PLOTTED

X	Y
45	10
75	15
76	20
82	25
86	30
89	40

COMPD NUMBER- 4121

DRILL HOLE NUMBER- 1756

SEAM NUMBER- 47016-080

FLOTATION RESULTS

2322-2337

PRODUCT	WEIGHT (GMS)	WEIGHT %	ASSAY		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	226.	95.4	10.5	5.5	76.7	98.2
TAILS	11.	4.6	65.7	0.0	23.3	1.8
CALC. HEAD	237.	100.0	13.1		100.0	100.0

TABLE 1

## WASHABILITY CURVE CALCULATIONS FOR (+2RMESH) FRACTION

SG	WT. (GMS.)	WT. %	CUM.WT. %	FRACTION ASH %	ASH WT. OF TOT.	CUM.WT. %	CUM.FLTS. ASH	SINKS WT. %	ASH	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	760.	19.45	19.46	3.20	0.62	0.62	3.20	26.11	80.54	32.42	3.20	9.73	7.0	
1.30-1.35	844.	21.61	41.08	6.00	1.30	1.92	4.67	24.81	58.92	42.11	6.00	30.27	2.5	
1.35-1.40	531.	13.65	54.67	10.10	1.37	3.29	6.02	23.44	45.33	51.71	10.10	47.87	1.5	
1.40-1.45	73.	1.87	56.54	13.50	0.25	3.55	6.27	23.18	43.46	53.35	13.50	55.61	1.5	
1.45-1.50	126.	3.23	59.77	15.70	0.51	4.05	6.78	22.68	40.23	56.37	15.70	58.16	1.5	
1.50-1.60	183.	4.69	64.46	20.50	0.96	5.01	7.78	21.72	35.54	61.10	20.50	62.11	1.0	
1.60 SINK	1388.	35.54	100.00	61.10	21.72	26.73	26.73	0.0	0.00	0.0	61.10	82.23	0.0	

FOR OPTIMUM RECOVERIES

TABLE 2

FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAP	RECOVERY AND ASH CALCULATIONS				FRA1	FRI	AP
		A	R	FR	FAP			
0.0551	0.0058	4.0	32.1	0.3022	0.0121	0.0179	.357	5.0
0.0551	0.0058	6.0	54.5	0.5134	0.0308	0.0366	.568	6.4
0.0551	0.0058	8.0	65.5	0.6169	0.0493	0.0551	.672	8.2
0.0551	0.0058	10.0	73.9	0.6962	0.0696	0.0754	.751	10.0
0.0551	0.0058	12.0	81.2	0.7649	0.0918	0.0976	.820	11.9
0.0551	0.0058	14.0	87.3	0.8229	0.1152	0.1210	.878	13.8
0.0551	0.0058	16.0	92.4	0.8703	0.1392	0.1450	.925	15.7
0.0551	0.0058	18.0	96.3	0.9070	0.1633	0.1690	.962	17.6
0.0551	0.0058	20.0	99.0	0.9330	0.1866	0.1924	.988	19.5

PRINTED IN CANADA  
R. L. CRANE, INC.

COMPO NUMBER- W121

DRILL HOLE NUMBER- 1756

SEAM NUMBER- 47076-080

DATA

COMPD NUMBER- W121

DRILL HOLE NUMBER- 1756

SEAM NUMBER- 47076-C87

DATA

SIZE DISTRIBUTION

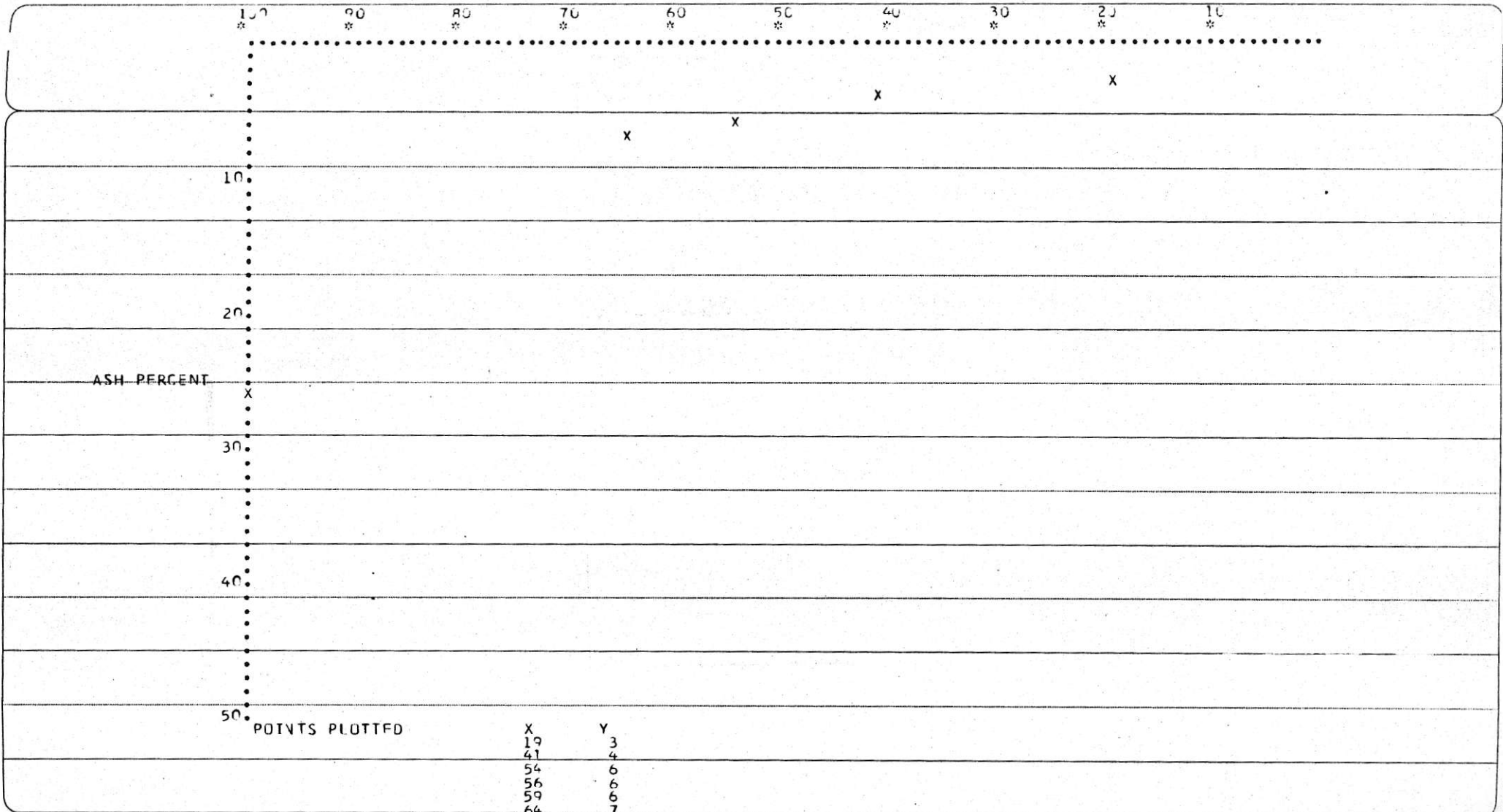
SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MF5H	3982.	94.2	26.7
-28MF5H	244.	5.8	13.1
FEED	4226.	100.0	25.9

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	10.50	95.36		5.51	8.01
PLUS 28	8.38	67.14	+1.60	63.76	91.99
COMBINED	8.50	68.77		68.77	100.00
FLOTATION	10.50	95.36		5.51	7.76
PLUS 28	8.91	69.43	+1.60	65.42	92.24
COMBINED	9.00	70.93		70.93	100.00
FLOTATION	10.50	95.36		5.51	7.54
PLUS 28	9.44	71.64	+1.60	67.50	92.46
COMBINED	9.50	73.01		73.01	100.00
FLOTATION	10.50	95.36		5.51	7.34
PLUS 28	9.97	73.77	+1.60	69.51	92.66
COMBINED	10.00	75.01		75.01	100.00

CUMULATIVE FLOATS WEIGHT PERCENT

CUMULATIVE FLOATS WEIGHT PERCENT

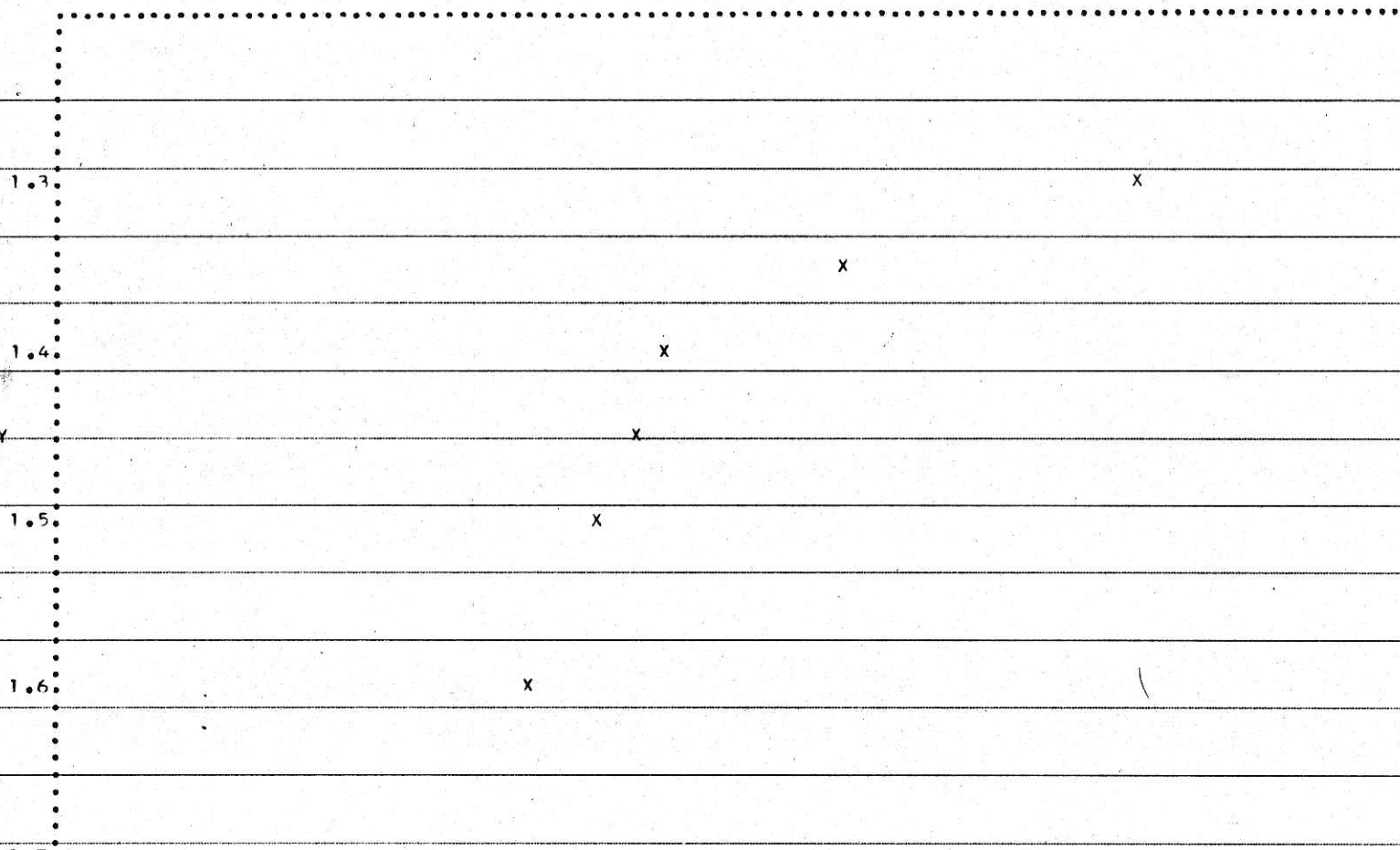


POINTS PLOTTED

X	Y
19	3
41	4
54	6
56	6
59	6
64	7
99	26

CUMULATIVE FLOATS WEIGHT PERCENT

100 \* 90 \* 80 \* 70 \* 60 \* 50 \* 40 \* 30 \* 20 \* 10 \*



SPECIFIC GRAVITY

1.7 \* POTNTS PLOTTFD

X	Y
19	10
41	15
54	20
56	25
59	30
64	40



COMPO NUMBER- 114

DRILL HOLE NUMBER- 1756

SEAM NUMBER- 471J1-103

FLUTATION RESULTS

KEROSENE 0.97 FROTHER 2.20

SEAM 14u

PRODUCT	WEIGHT (GMS)	WEIGHT %	ASSAY		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	151.	97.0	4.8	7.5	90.3	98.0
TAILS	5.	3.0	38.0	1.0	19.7	2.0
CALC. HEAD	156.	100.0	5.8		100.0	100.0

TABLE 1

WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

SAMPLE FRACTION	ASH WT.	CUM. WT.	CUM. FLTS.	SINKS	ASH	CUM. STNKS	CUM. STNKS	ASH	FLTS.	FSI
	%	%	%	%	%	%	%	%	%	%

PRINTED IN CANADA

TABLE 1

## WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

SG	WT. (GMS.)	WT. %	CUM.WT. %	FRACTION ASH %	ASH WT. OF TOT.	CUM.WT. %	CUM.FLTS. ASH	SINKS WT. %	ASH WT. %	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	3759.	77.91	77.91	2.00	1.56	1.56	2.00	6.84	22.09	30.97	2.00	38.95	7.0	
1.30-1.35	290.	6.01	83.92	7.40	0.44	2.00	2.39	5.40	16.68	39.77	7.40	87.91	4.5	
1.35-1.40	173.	3.59	87.50	12.20	0.44	2.44	2.79	5.96	12.50	47.68	12.20	85.71	3.0	
1.40-1.45	102.	2.11	89.62	19.90	0.42	2.86	3.19	5.54	10.38	53.34	19.90	88.56	4.5	
1.45-1.50	115.	2.38	92.00	26.50	0.63	3.49	3.80	4.91	8.00	61.34	26.50	90.81	3.0	
1.50-1.60	50.	1.04	93.04	30.00	0.31	3.80	4.09	4.60	6.96	66.00	30.00	92.52	2.0	
1.60 SINK	336.	6.96	100.00	66.00	4.60	8.40	8.40	0.00	0.00	0.0	66.00	95.52	1.0	



COMPO NUMBER- 114

DRILL HOLE NUMBER- 1756

SEAM NUMBER- 47101-103

DATA

SIZE DISTRIBUTION

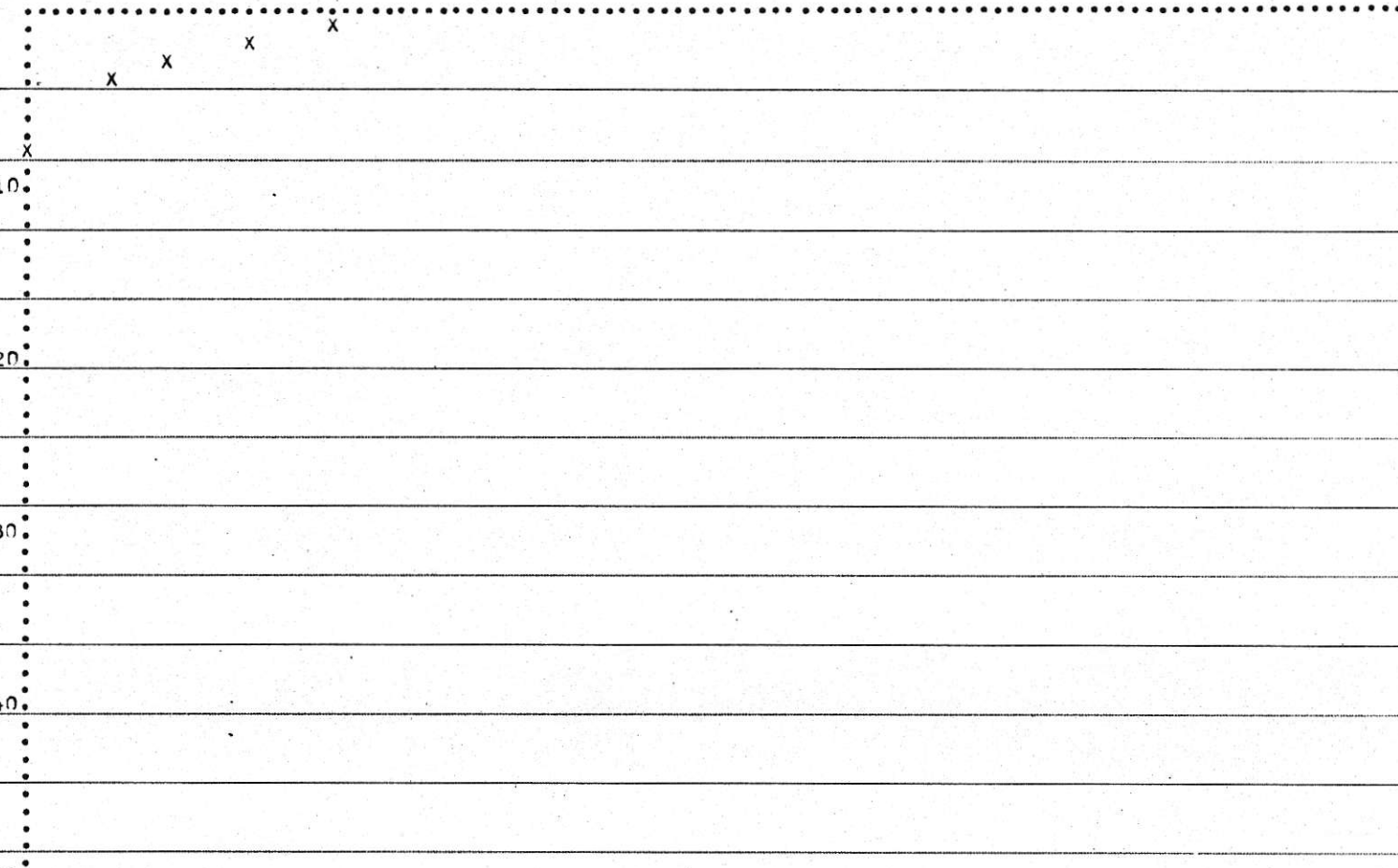
SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+2RMF5H	4840.	96.6	8.4
-2RMF5H	171.	3.4	5.8
FEED	5031.	100.0	8.3

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	4.80	96.99		3.30	3.30
PLUS 28	8.40	100.00	+1.60	96.60	96.70
COMBINED	8.28	99.90		99.90	100.00
FLOTATION	4.80	96.99		3.30	3.30
PLUS 28	8.40	100.00	+1.60	96.60	96.70
COMBINED	8.28	99.90		99.90	100.00
FLOTATION	4.80	96.99		3.30	3.30
PLUS 28	8.40	100.00	+1.60	96.60	96.70
COMBINED	8.28	99.90		99.90	100.00

CUMULATIVE FLOATS WEIGHT PERCENT

100 \* 90 \* 80 \* 70 \* 60 \* 50 \* 40 \* 30 \* 20 \* 10 \*



ASH PERCENT

10  
20  
30  
40  
50

POINTS PLOTTED

X	Y
77	1
83	2
87	2
89	3
91	3
93	4
99	8

CUMULATIVE FLOATS WEIGHT PERCENT

100 \* 90 \* 80 \* 70 \* 60 \* 50 \* 40 \* 30 \* 20 \* 10 \*

1.3

X

X

1.4

X

SPECIFIC GRAVITY

X

1.5

X

1.6

X

1.7

POINTS PLOTTFD

X	Y
77	10
83	15
87	20
89	25
91	30
93	40

COMPO NUMBER- 115

DRILL HOLE NUMBER- 1756

SEAM NUMBER- 4717-1.1

## FLOTATION RESULTS

KEROSENE 0.97 FROTHER 0.20

SEAM # 12

PRODUCT	WEIGHT (GMS)	WEIGHT %	ASSAY		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	130.	81.3	11.0	7.0	57.5	85.4
TAILS	30.	18.8	35.2	6.0	42.5	14.4
CALC. HEAD	160.	100.0	15.5		100.0	100.0

TABLE 1

## WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

SG	WT. (GMS.)	WT. %	CUM. WT. %	FRACTION ASH %	ASH WT. OF TOT.	CUM. WT. %	CUM. FLTS. ASH	SINKS WT. %	ASH WT. %	CUM. SINKS WT. %	CUM. SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	677.	43.40	43.40	3.30	1.43	1.43	3.30	18.96	56.60	33.49	3.30	21.70	7.5	

TABLE 1

## WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

SG	WT. (GMS.)	WT. %	CUM.WT. %	FRACTION ASH %	ASH WT. OF TOT.	CUM.WT. %	CUM.FLTS. ASH	SINKS WT. %	ASH	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	677.	43.40	43.40	3.30	1.43	1.43	3.30	18.96		56.60	33.49	3.30	21.70	7.5
1.30-1.35	172.	11.03	54.42	10.00	1.10	2.53	4.66	17.85		45.58	39.13	10.00	48.91	4.0
1.35-1.40	196.	12.55	66.99	14.00	1.76	4.29	6.41	15.10		33.01	48.76	14.00	60.71	6.0
1.40-1.45	108.	6.92	73.91	17.20	1.19	5.48	7.42	14.91		26.09	57.13	17.20	70.45	6.0
1.45-1.50	51.	3.27	77.18	22.50	0.74	6.22	8.06	14.17		22.82	62.09	22.50	75.54	5.5
1.50-1.60	53.	3.40	80.58	30.60	1.04	7.26	9.01	13.13		19.42	67.60	30.60	78.88	5.5
1.60 SINK	303.	19.42	100.00	67.60	13.13	20.39	20.39	0.0		0.00	0.0	67.60	90.29	0.5



TABLE

RECOVERY AND ASH CALCULATIONS

FFRF	FFREAF	RECOVERY A	ASH R	FR	FAR	FRAI	FRI	AP
0.0769	0.0085	4.0	49.2	0.4457	0.0178	0.0263	.523	5.0
0.0769	0.0085	6.0	64.2	0.5817	0.0349	0.0433	.658	6.6
0.0769	0.0085	8.0	77.0	0.6974	0.0558	0.0642	.774	8.3
0.0769	0.0085	10.0	83.8	0.7590	0.0759	0.0843	.836	10.1
0.0769	0.0085	12.0	89.5	0.8102	0.0972	0.1057	.887	11.9
0.0769	0.0085	14.0	93.9	0.8504	0.1191	0.1275	.927	13.8
0.0769	0.0085	16.0	97.2	0.8796	0.1407	0.1492	.956	15.6
0.0769	0.0085	18.0	99.2	0.8979	0.1615	0.1701	.975	17.4
0.0769	0.0085	20.0	***	0.9052	0.1810	0.1895	.982	19.3

COMPO NUMBER- 115

DRILL HOLE NUMBER- 1756

SEAM NUMBER- 47157-108

## DATA

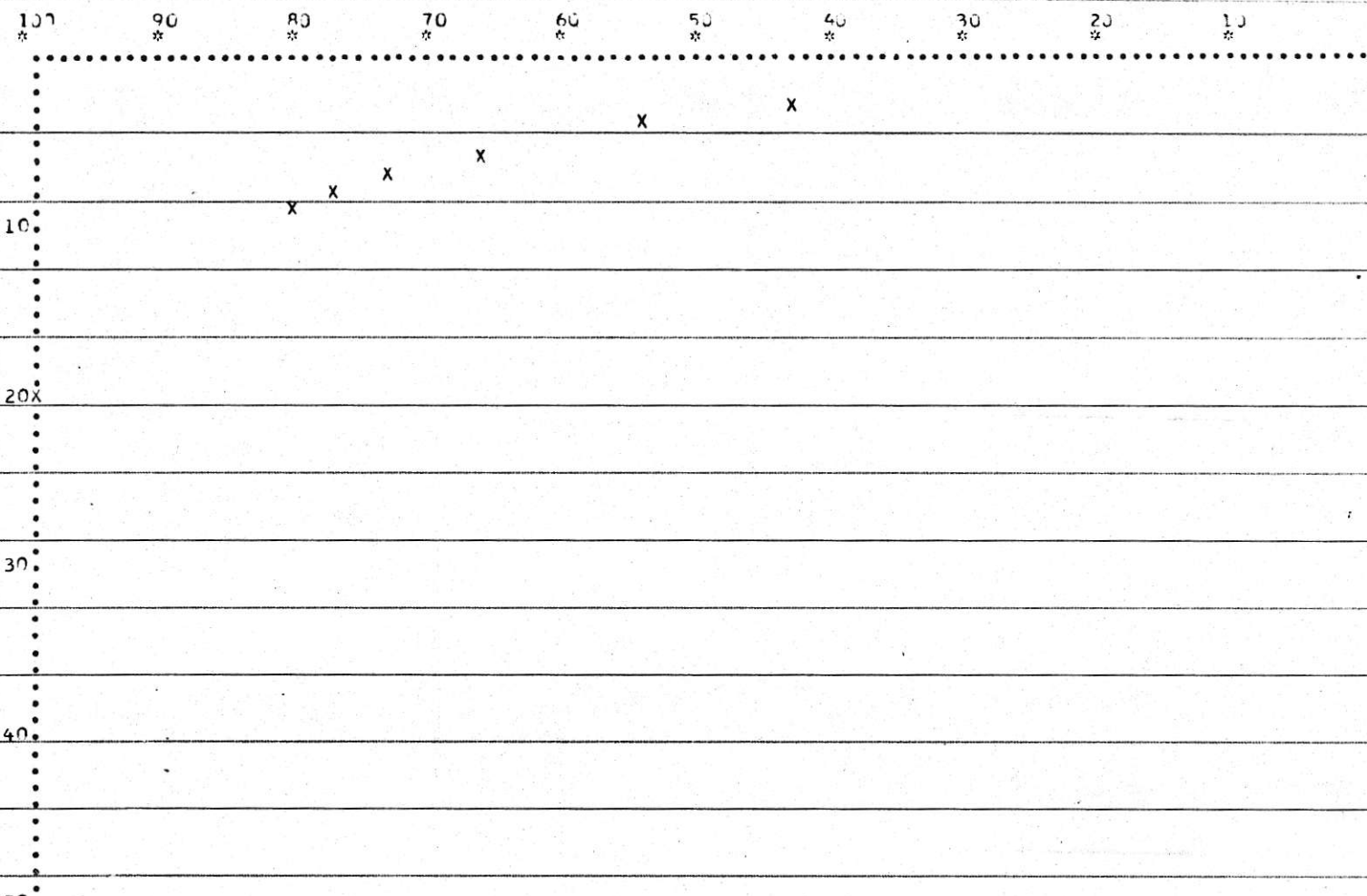
## SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MESH	1678.	90.5	27.4
-28MESH	168.	9.5	15.5
FEED	1776.	100.0	19.9

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	11.00	81.25		7.69	9.82
PLUS 28	8.24	77.96	1.52	70.58	90.18
COMBINED	8.50	78.27		78.27	100.00
FLOTATION	11.00	81.25		7.69	9.60
PLUS 28	8.79	79.94	1.53	72.38	97.40
COMBINED	9.00	80.07		80.07	100.00
FLOTATION	11.00	81.25		7.69	9.41
PLUS 28	9.34	81.70	+1.60	73.97	97.59
COMBINED	9.50	81.66		81.66	100.00
FLOTATION	11.00	81.25		7.69	9.23
PLUS 28	9.90	83.50	+1.60	75.60	90.77
COMBINED	10.00	83.28		83.28	100.00

CUMULATIVE FLOATS WEIGHT PERCENT



ASH PERCENT

POINTS PLOTTED

X	Y
43	3
54	4
66	6
73	7
77	8
80	9
99	20

CUMULATIVE FLOATS WEIGHT PERCENT

100 \* 90 \* 80 \* 70 \* 60 \* 50 \* 40 \* 30 \* 20 \* 10 \*

1.3

X

X

1.4

X

SPECIFIC GRAVITY

X

1.5

X

1.6

X

1.7

POINTS PLOTTED

X	Y
43	10
54	15
65	20
73	25
77	30
80	40

COMPO NUMBER- 119

DRILL HOLE NUMBER- 1756

SEAM NUMBER-47120-125.454-94

FLotation RESULTS

KEROSENE 0.97 FROTHER 7.20

PRODUCT	WEIGHT (GMS)	WEIGHT %	ASSAY		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	279.	85.6	14.0	7.0	64.1	90.5
TAILS	47.	14.4	46.5	1.0	35.9	9.5
CALC. HEAD	326.	100.0	18.7		100.0	100.0

Thrust zone  
4 seam ??  
plus ---

TABLE 1

## WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

SG	WT. (GMS.)	WT. %	CUM.WT. %	FRACTION ASH %	ASH WT. OF TOT.	CUM.WT. %	CUM.FLTS. ASH	SINKS WT. %	ASH	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	1000.	48.75	48.76	2.90	1.41	1.41	2.90	19.68		51.24	38.40	2.90	24.38	7.0
1.30-1.35	313.	15.26	64.02	8.70	1.33	2.74	4.28	18.35		35.98	51.00	8.70	56.39	7.0
1.35-1.40	158.	7.70	71.72	13.70	1.26	3.80	5.29	17.30		28.28	61.16	13.70	67.87	6.5
1.40-1.45	82.	4.00	75.72	18.70	0.75	4.54	6.00	16.55		24.28	68.15	18.70	73.72	6.5
1.45-1.50	41.	2.00	77.72	22.80	0.46	5.00	6.43	16.09		22.28	72.22	22.80	76.72	4.0
1.50-1.60	32.	1.56	79.28	28.70	0.45	5.45	6.87	15.64		20.72	75.50	28.70	78.50	2.0
1.60 SINK	425.	20.72	100.00	75.50	15.64	21.09	21.09	0.0		0.00	0.0	75.50	89.64	0.0

FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFREAF	RECOVERY AND ASH CALCULATIONS				FRAT	FRI	AP
		A	R	FR	FAR			
0.1545	0.0216	4.0	61.3	0.5727	0.0201	0.0417	.657	6.4
0.1545	0.0216	6.0	75.8	0.6209	0.0373	0.0589	.775	7.6
0.1545	0.0216	8.0	83.0	0.6805	0.0544	0.0761	.835	9.1
0.1545	0.0216	10.0	88.8	0.7278	0.0729	0.0944	.882	10.7
0.1545	0.0216	12.0	93.4	0.7657	0.0919	0.1135	.920	12.3
0.1545	0.0216	14.0	96.9	0.7942	0.1112	0.1328	.949	14.1
0.1545	0.0216	16.0	99.2	0.8133	0.1301	0.1518	.968	15.7
0.1545	0.0216	18.0	****	0.8230	0.1481	0.1698	.977	17.4
0.1545	0.0216	20.0	****	0.8233	0.1647	0.1863	.978	19.1

COMPO NUMBER- 119

DRILL HOLE NUMBER- 1756

SFAM NUMBER-47120-125.464-977

## DATA

## SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MESH	2170.	81.9	21.1
-28MESH	478.	18.1	18.7
FEED	2648.	100.0	27.7

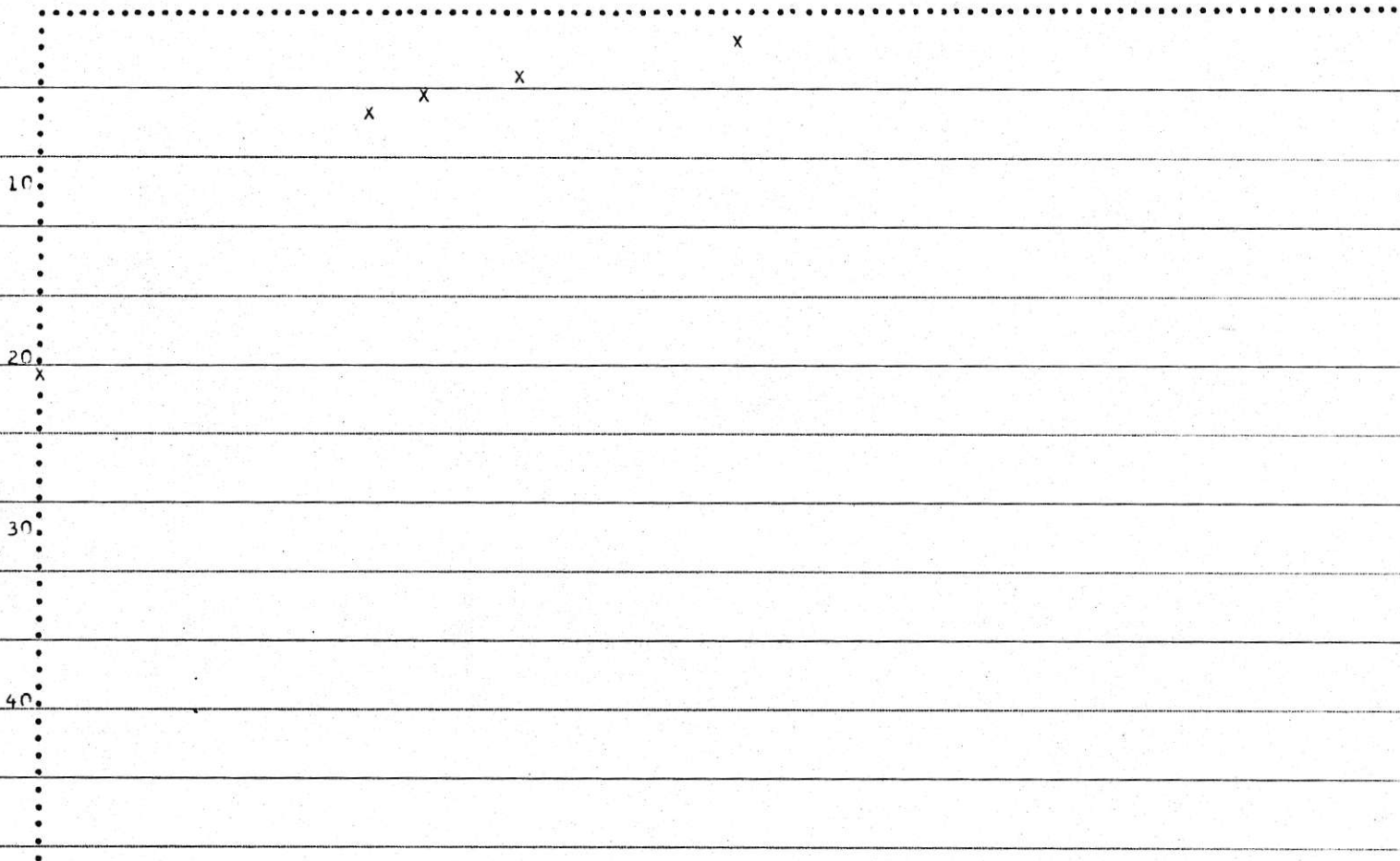
TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	14.00	85.58		15.45	18.94
PLUS 28	7.29	87.71	+1.60	66.14	81.76
COMBINED	8.50	81.59		81.59	100.00
FLOTATION	14.00	85.58		15.45	18.56
PLUS 28	7.90	82.72	+1.60	67.78	81.44
COMBINED	9.00	83.23		83.23	100.00
FLOTATION	14.00	85.58		15.45	18.22
PLUS 28	8.51	84.62	+1.60	69.34	81.78
COMBINED	9.50	84.79		84.79	100.00
FLOTATION	14.00	85.58		15.45	17.91
PLUS 28	9.12	86.41	+1.60	70.91	82.79
COMBINED	10.00	86.26		86.26	100.00



CUMULATIVE FLJATS WEIGHT PERCENT

100 \* 90 \* 80 \* 70 \* 60 \* 50 \* 40 \* 30 \* 20 \* 10 \*



ASH PERCENT

50 POINTS PLOTTED

X	Y
48	2
64	4
71	5
75	6
77	6
79	6
99	21

CUMULATIVE FIDATS WEIGHT PERCENT

100 \* 90 \* 80 \* 70 \* 60 \* 50 \* 40 \* 30 \* 20 \* 10 \*

1.3

x

x

1.4

x

SPECIFIC GRAVITY

x

1.5

x

1.6

x

1.7

POINTS PLOTFD

X	Y
43	10
64	15
71	20
75	25
77	30
79	40

COMPO NUMBER- 117

DRILL HOLE NUMBER- 1756

SEAM NUMBER- 47114-116

FLUTATION RESULTS

KEROSENE 0.97 FROTHER 0.20

PRODUCT	WEIGHT (GMS)	WEIGHT %	ASSAY		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	324.	99.4	2.3	7.5	92.1	99.6
TAILS	2.	0.6	31.8	2.0	7.9	0.4
CALC. HEAD	326.	100.0	2.5		100.0	100.0

SEAM 4 ?

TABLE 1

WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

CUM. WT. COAL TONS CUM. WT. CUM. ELTS. SINKS ASH CUM. STKS CUM. STKS ASH ELTS. FSI

TABLE 1

## WASHABILITY CURVE CALCULATIONS FOR (+28MFSH) FRACTION

SG	WT. (GMS.)	WT. %	CUM.WT. %	FRACTION ASH %	ASH WT. OF TOT.	CUM.WT. %	CUM.FLTS. ASH	SINKS WT. %	ASH WT. %	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	3519.	79.90	79.90	1.60	1.28	1.28	1.60	2.35	20.10	11.68	1.60	39.95	7.5	
1.30-1.35	452.	10.26	90.17	7.10	0.73	2.01	2.23	1.62	9.83	16.46	7.10	85.04	6.5	
1.35-1.40	259.	5.88	96.05	11.20	0.66	2.67	2.78	0.96	3.95	24.30	11.20	93.11	5.0	
1.40-1.45	86.	1.95	98.00	17.20	0.34	3.00	3.16	0.62	2.00	31.23	17.20	97.03	4.5	
1.45-1.50	41.	0.93	98.93	22.60	0.21	3.21	3.25	0.41	1.07	38.76	22.60	98.47	4.0	
1.50-1.60	32.	0.73	99.66	32.00	0.23	3.44	3.46	0.18	0.34	53.19	32.00	99.30	2.5	
1.60 SINK	15.	0.34	100.00	53.20	0.18	3.63	3.63	0.00	0.00	0.0	53.20	99.83	1.5	

FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAF	RECOVERY A	AND ASH R	CALCUIATIONS FR	FAR	FRAI	FRI	AP
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COMPO NUMBFR- 117

DRILL HOLE NUMBER- 1756

SEAM NUMBER- 47114-116

DATA  
SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MFSH	4467.	89.4	3.6
-28MFSH	532.	10.6	2.5
FEED	4999.	100.0	3.5

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	2.30	99.39		10.58	10.58
PLUS 28	3.63	100.00	+1.60	89.36	89.42
COMBINED	3.48	99.93		99.93	100.00
FLOTATION	2.30	99.39		10.58	10.58
PLUS 28	3.63	100.00	+1.60	89.36	89.42
COMBINED	3.48	99.93		99.93	100.00
FLOTATION	2.30	99.39		10.58	10.58
PLUS 28	3.63	100.00	+1.60	89.36	89.42
COMBINED	3.48	99.93		99.93	100.00
FLOTATION	2.30	99.39		10.58	10.58
PLUS 28	3.63	100.00	+1.60	89.36	89.42
COMBINED	3.48	99.93		99.93	100.00

CUMULATIVE FLOATS WEIGHT PERCENT

100 \* 90 \* 80 \* 70 \* 60 \* 50 \* 40 \* 30 \* 20 \* 10 \*

CUMULATIVE FLOATS WEIGHT PERCENT

100 \* 90 \* 80 \* 70 \* 60 \* 50 \* 40 \* 30 \* 20 \* 10 \*



10

20

ASH PERCENT

30

40

50

POINTS PLOTTED

X	Y
79	1
90	2
96	2
98	3
98	3
99	3
99	3

CUMULATIVE FLOATS WEIGHT PERCENT

CUMULATIVE FIGATS WEIGHT PERCENT

100\* 90\* 80\* 70\* 60\* 50\* 40\* 30\* 20\* 10\*

1.3

X

X

1.4

X

SPECIFIC GRAVITY

X

1.5

X

1.6

X

1.7

POINTS PLOTTED

X	Y
79	10
90	15
96	20
98	25
98	30
99	40



COMPO NUMBER- 118

DRILL HOLE NUMBER- 1756

SEAM NUMBER- 47118-119

FLotation RESULTS

KEROSENE 0.97 FROTHER 0.20

PRODUCT	WEIGHT (GMS)	WEIGHT %	ASSAY		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	287.	88.5	9.7	8.0	60.9	93.1
TAILS	37.	11.4	48.4	1.5	39.1	6.9
CALC. HEAD	324.	100.0	14.1		100.0	100.0

SEAM 5?

TABLE 1

## WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

SG	WT. (GMS.)	WT. %	CUM.WT. %	FRACTION ASH %	ASH WT. OF TOT.	CUM.WT. %	CUM.FLTS. ASH	SINKS WT. %	ASH WT. %	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	1814.	41.12	41.12	3.30	1.36	1.36	3.30	28.82	58.88	48.96	3.30	29.56	8.5	
1.30-1.35	619.	13.91	55.03	7.80	1.78	2.44	4.44	27.74	44.98	61.67	7.80	48.07	5.0	
1.35-1.40	235.	5.33	60.35	12.30	0.66	3.10	5.13	27.08	39.65	68.31	12.30	57.69	5.0	
1.40-1.45	113.	2.56	62.91	19.10	0.49	3.59	5.70	25.67	37.09	71.71	19.10	61.63	5.0	
1.45-1.50	87.	1.97	64.88	23.60	0.47	4.05	6.24	26.13	35.12	74.41	23.60	63.90	5.0	
1.50-1.60	78.	1.77	66.65	31.20	0.55	4.60	6.91	25.58	33.35	76.70	31.20	65.77	5.0	
1.60 SINK	1471.	33.35	100.00	76.70	25.58	30.18	30.18	0.00	0.00	0.00	76.70	83.33	0.0	

FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAF	RECOVERY AND ASH CALCULATIONS				FRAI	FRI	AP
		A	R	FR	FAR			
0.0869	0.0084	4.0	50.5	0.4551	0.0182	0.0266	.542	4.9
0.0869	0.0084	6.0	64.1	0.5778	0.0347	0.0431	.665	6.5
0.0869	0.0084	8.0	69.5	0.6266	0.0501	0.0586	.713	8.2
0.0869	0.0084	10.0	74.3	0.6703	0.0677	0.0755	.757	10.0
0.0869	0.0084	12.0	78.7	0.7102	0.0852	0.0936	.797	11.7
0.0869	0.0084	14.0	82.8	0.7464	0.1045	0.1129	.833	13.6
0.0869	0.0084	16.0	86.4	0.7788	0.1246	0.1330	.866	15.4
0.0869	0.0084	18.0	89.5	0.8076	0.1454	0.1538	.894	17.2
0.0869	0.0084	20.0	92.3	0.8326	0.1665	0.1749	.919	19.0

COMPO NUMBER- 118

DRILL HOLE NUMBER- 1756

SFAM NUMBER- 47113-110

## DATA

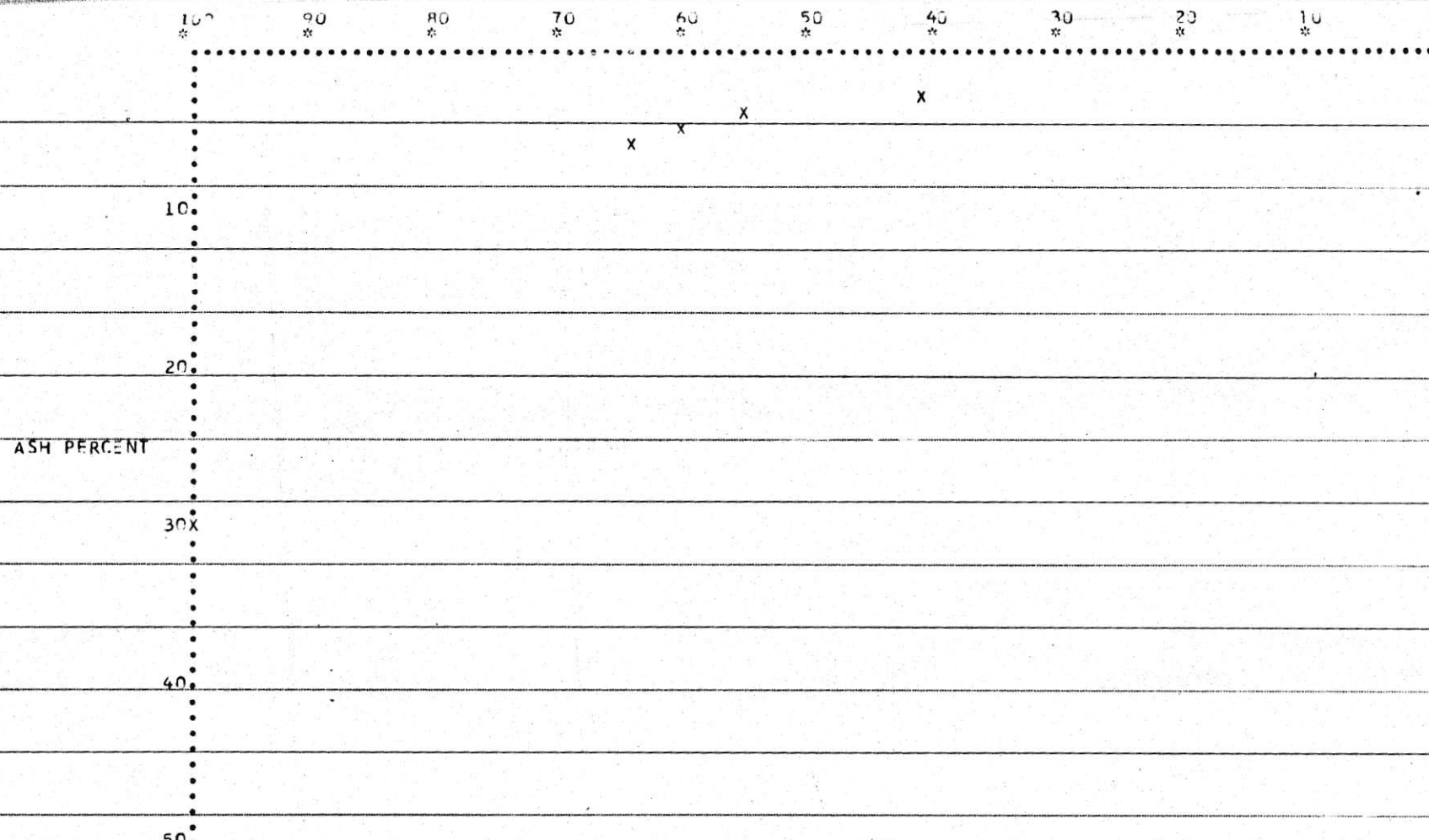
## SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MFSH	4516.	90.2	37.2
-28MFSH	491.	9.8	14.1
FEED	5017.	100.0	28.6

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	9.70	88.58		8.69	12.03
PLUS 28	8.37	70.43	+1.60	63.50	87.97
COMBINED	8.50	72.18		72.18	100.00
FLOTATION	9.70	88.58		8.69	11.83
PLUS 28	8.92	71.76	+1.60	64.73	89.17
COMBINED	9.00	73.41		73.41	100.00
FLOTATION	9.70	88.58		8.69	11.64
PLUS 28	9.48	73.09	+1.60	65.92	98.36
COMBINED	9.50	74.61		74.61	100.00
FLOTATION	9.70	88.58		8.69	11.46
PLUS 28	10.03	74.39	+1.60	67.10	89.54
COMBINED	10.00	75.78		75.78	100.00

CUMULATIVE FLOATS WEIGHT PERCENT

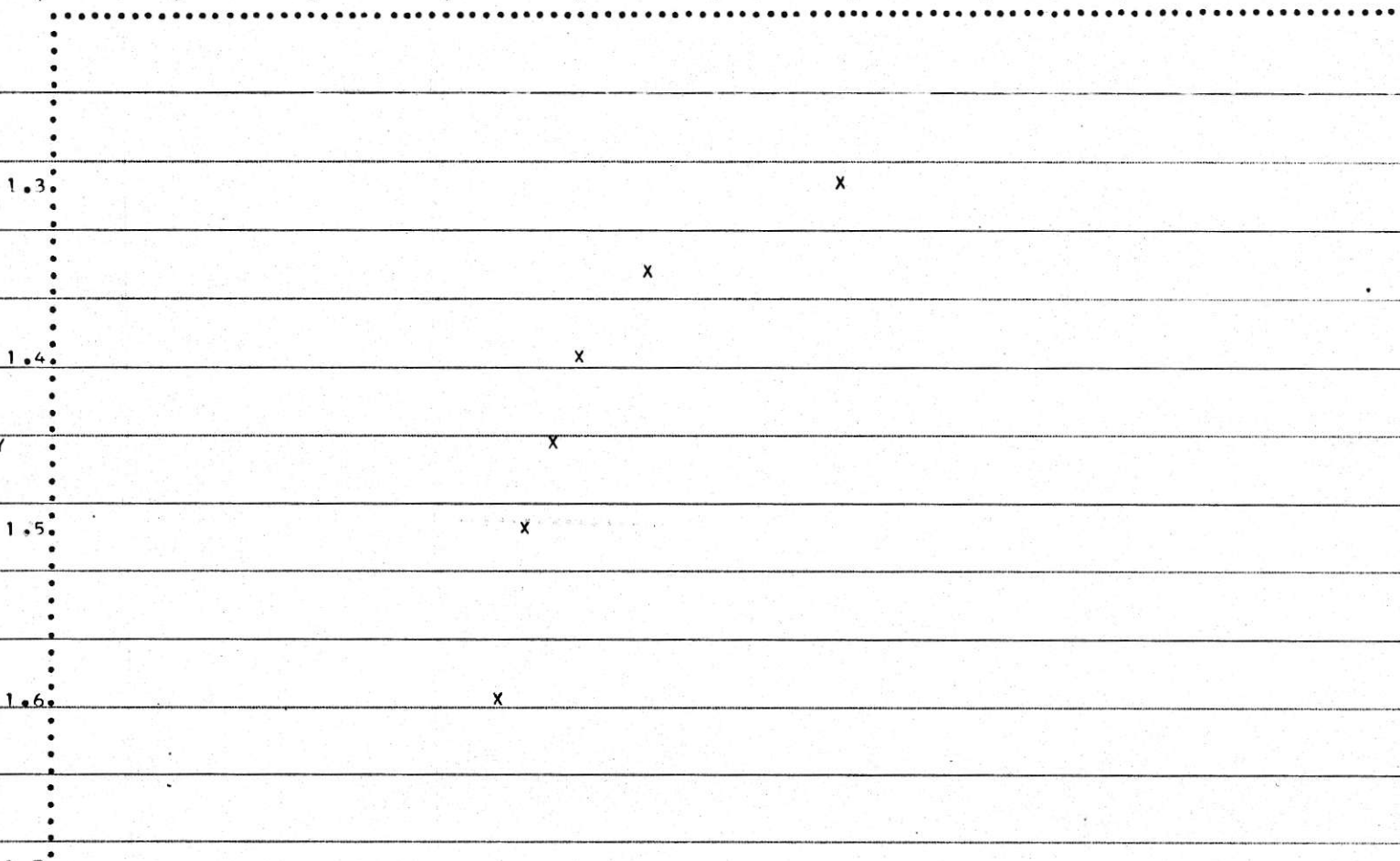


POINTS PLOTTED

X	Y
41	3
55	4
67	5
62	5
64	6
66	6
99	30

CUMULATIVE FLOATS WEIGHT PERCENT

100 \* 90 \* 80 \* 70 \* 60 \* 50 \* 40 \* 30 \* 20 \* 10 \*



SPECIFIC GRAVITY

1.7 POINTS PLOTTED

X	Y
41	10
55	15
67	20
62	25
64	30
66	40

COMPO NUMBER- 116

DRILL HOLE NUMBER- 1756

SEAM NUMBER- 47111-112

FLUTATION RESULTS

KEROSENE 0.97 FROTHER 0.20

PRODUCT	WEIGHT (GMS)	WEIGHT %	ASSAY		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	189.	97.9	4.4	7.5	79.4	99.0
TAILS	4.	2.1	54.0	2.0	20.6	1.0
CALC. HEAD	193.	100.0	5.4		100.0	100.0

*SEAM 11*

TABLE 1

WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

SC WT. CUM. WT. FRACTION ASH WT. CUM. WT. CUM. ELTS. SINKS ASH CUM. SINKS CUM. SINKS ASH ELTS. FSI

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R. L. CRAN INC

TABLE 1

## WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

SG	WT. (GMS.)	WT. %	CUM.WT. %	FRACTION ASH %	ASH WT. OF TOT.	CUM.WT. %	CUM.FLTS. ASH	SINKS WT. %	ASH	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	1291.	53.63	63.63	1.80	1.15	1.15	1.80	12.08		36.37	33.21	1.80	31.81	8.0
1.30-1.35	137.	6.75	70.38	8.00	0.54	1.69	2.39	11.54		29.62	38.95	8.00	67.00	7.0
1.35-1.40	97.	4.78	75.16	10.60	0.51	2.19	2.92	11.03		24.84	44.41	10.60	72.77	7.0
1.40-1.45	70.	3.45	78.61	13.30	0.46	2.65	3.37	10.57		21.39	49.43	13.30	75.89	6.5
1.45-1.50	29.	1.43	80.04	19.00	0.27	2.92	3.65	10.30		19.96	51.60	19.00	79.32	6.5
1.50-1.60	57.	2.81	82.85	26.60	0.75	3.67	4.43	9.55		17.15	55.70	26.60	81.44	6.0
1.60 SINK	348.	17.15	100.00	55.70	9.55	13.22	13.22	0.00		0.00	0.0	55.70	91.42	0.5





COMPO NUMBER- 116

DRILL HOLE NUMBER- 1756

SEAM NUMBER- 47111-112

DATA  
SIZE DISTRIBUTION

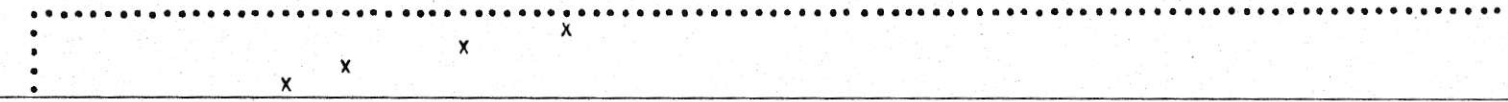
SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MESH	2113.	91.4	13.2
-28MESH	199.	8.6	5.4
FEED	2312.	100.0	17.6

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	4.40	97.93		8.43	8.86
PLUS 28	8.89	94.89	+1.60	86.73	91.14
COMBINED	8.50	95.15		95.15	100.00
FLOTATION	4.40	97.93		8.43	8.77
PLUS 28	9.43	95.90	+1.60	87.64	91.23
COMBINED	9.00	96.07		96.07	100.00
FLOTATION	4.40	97.93		8.43	8.70
PLUS 28	9.98	96.80	+1.60	88.47	91.30
COMBINED	9.50	96.89		96.89	100.00
FLOTATION	4.40	97.93		8.43	8.63
PLUS 28	10.53	97.59	+1.60	89.19	91.37
COMBINED	10.00	97.62		97.62	100.00

CUMULATIVE FLOATS WEIGHT PERCENT

100 \* 90 \* 80 \* 70 \* 60 \* 50 \* 40 \* 30 \* 20 \* 10 \*



10

20

ASH PERCENT

30

40

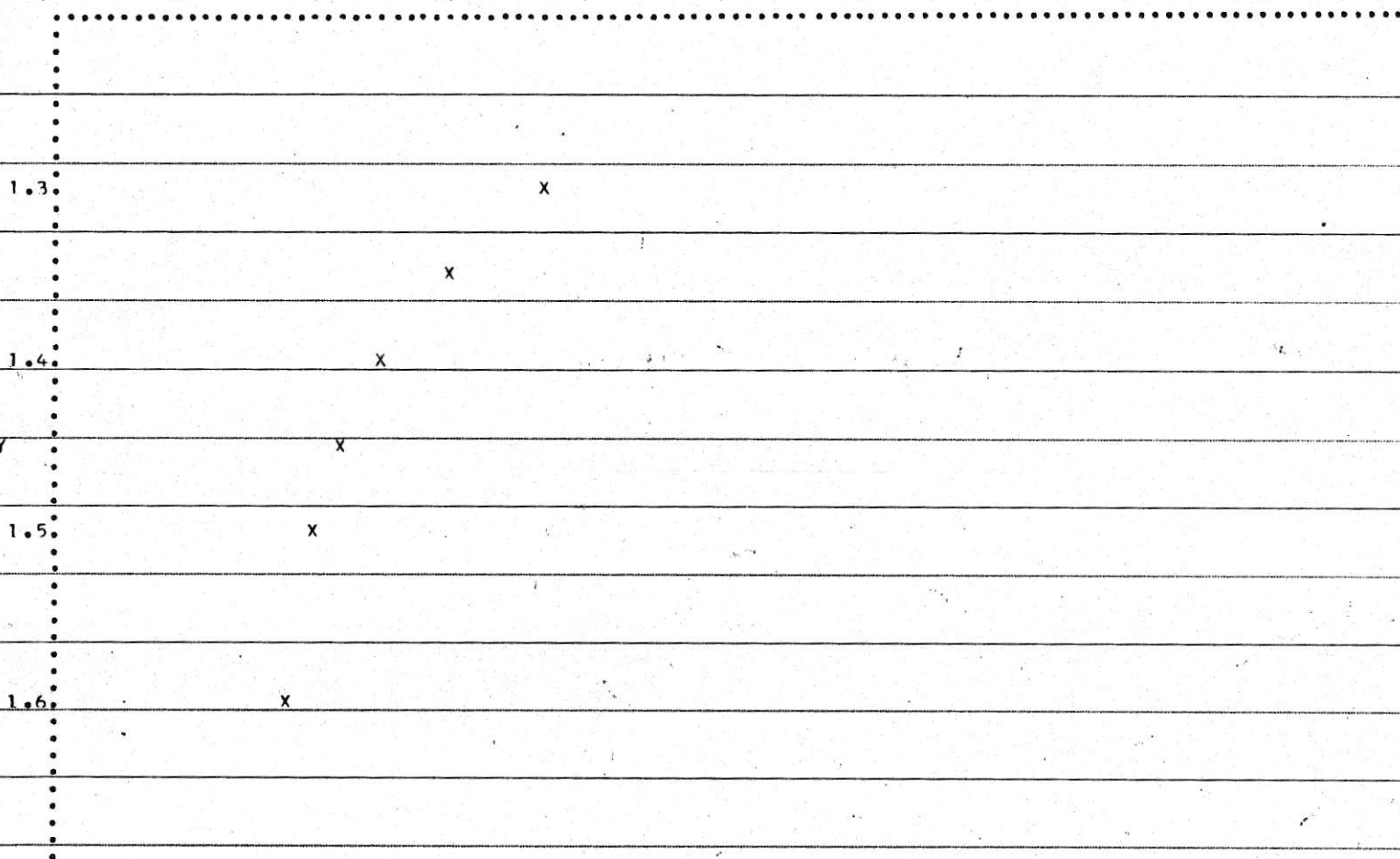
50

POINTS PLOTTED

X	Y
63	1
70	2
78	3
80	3
82	3
85	1

CUMULATIVE FLOATS WEIGHT PERCENT

100\* 90\* 80\* 70\* 60\* 50\* 40\* 30\* 20\* 10\*



SPECIFIC GRAVITY

1.7  
POINTS PLOTTED

X	Y
63	10
75	15
78	20
80	25
82	30

COMPO NUMBER- W070

DRILL HOLE NUMBER- 1757

SEAM NUMBER- 47324

FLOTATION RESULTS

KEROSENE 0.97 FROTHER 0.20

*R14 Horizon*

PRODUCT	WEIGHT (GMS)	WEIGHT %	ASSAY		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	131.	57.2	2.8	6.5	25.7	60.0
TAILS	98.	42.8	37.9	1.0	74.3	34.0
CALC. HEAD	229.	100.0	21.8		100.0	100.0

TABLE 1

TABLE 1

## WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

SG	WT. (GMS.)	WT. %	CUM. WT. %	FRACTION ASH %	ASH WT. OF TOT.	CUM. WT. %	CUM. FLTS. ASH	SINKS WT. %	ASH WT. %	CUM. SINKS WT. %	CUM. SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	772.	59.57	59.57	4.50	2.68	2.68	4.50	10.46	40.43	25.87	4.50	29.78	7.0	
1.30-1.35	236.	18.21	77.78	9.50	1.73	4.41	5.67	8.73	22.22	39.28	9.50	58.67	6.0	
1.35-1.40	54.	4.17	81.94	15.50	0.65	5.06	6.17	8.08	18.06	44.77	15.50	79.86	5.5	
1.40-1.45	46.	3.55	85.49	20.00	0.71	5.77	6.74	7.37	14.51	50.83	20.00	83.72	5.5	
1.45-1.50	26.	2.01	87.50	25.50	0.51	6.28	7.17	6.86	12.50	54.90	25.50	86.50	2.5	
1.50-1.60	45.	3.47	90.97	31.50	1.09	7.37	8.10	5.77	9.03	63.90	31.50	89.24	0.5	
1.60 SINK	117.	9.03	100.00	63.90	5.77	13.14	13.14	0.00	0.00	0.0	63.90	95.49	0.5	

PT- OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAP	RECOVERY AND ASH CALCULATIONS				FRAI	FRI	AP
		A	R	FR	FAR			
0.0851	0.0083	4.0	48.2	0.4101	0.0164	0.0247	.495	5.0
0.0851	0.0083	6.0	80.7	0.6869	0.0412	0.0496	.772	6.4
0.0851	0.0083	8.0	90.6	0.7715	0.0617	0.0701	.857	8.2
0.0851	0.0083	10.0	96.3	0.8199	0.0820	0.0903	.905	10.0
0.0851	0.0083	12.0	99.4	0.8462	0.1015	0.1099	.931	11.8

COMPO. NUMBER- W070

DRILL HOLE NUMBER- 1757

SFAM NUMBER- 47326

DATA

SIZE DISTRIBUTION

*R14 Horizon*

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MESH	1333.	85.1	13.1
-28MESH	233.	14.9	21.8
FEED	1566.	100.0	14.4

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	9.80	57.21		8.51	9.85
PLUS 28	8.27	91.55	+1.60	77.93	90.15
COMBINED	8.50	86.44		86.44	100.00
FLOTATION	9.80	57.21		8.51	9.67
PLUS 28	8.86	93.39	+1.60	79.49	90.33
COMBINED	9.00	88.00		88.00	100.00
FLOTATION	9.80	57.21		8.51	9.52
PLUS 28	9.45	95.00	+1.60	80.87	90.48
COMBINED	9.50	89.38		89.38	100.00
FLOTATION	9.80	57.21		8.51	9.40
PLUS 28	10.03	96.39	+1.60	82.05	90.60
COMBINED	10.00	90.56		90.56	100.00

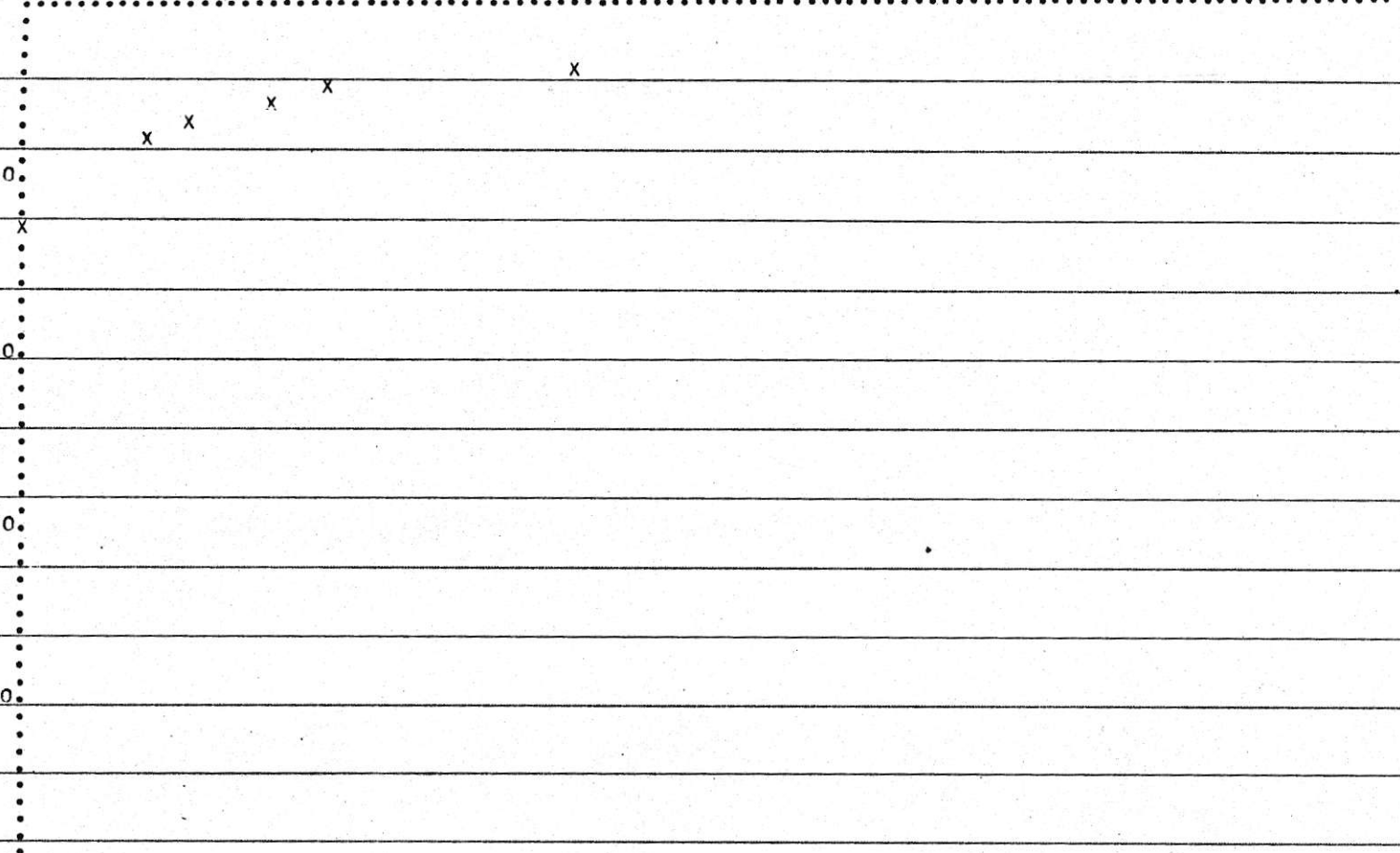
CUMULATIVE FLOATS WEIGHT PERCENT

100 90 80 70 60 50 40 30 20 10



CUMULATIVE FLOATS WEIGHT PERCENT

100 \* 90 \* 80 \* 70 \* 60 \* 50 \* 40 \* 30 \* 20 \* 10 \*



ASH PERCENT

10

20

30

40

50

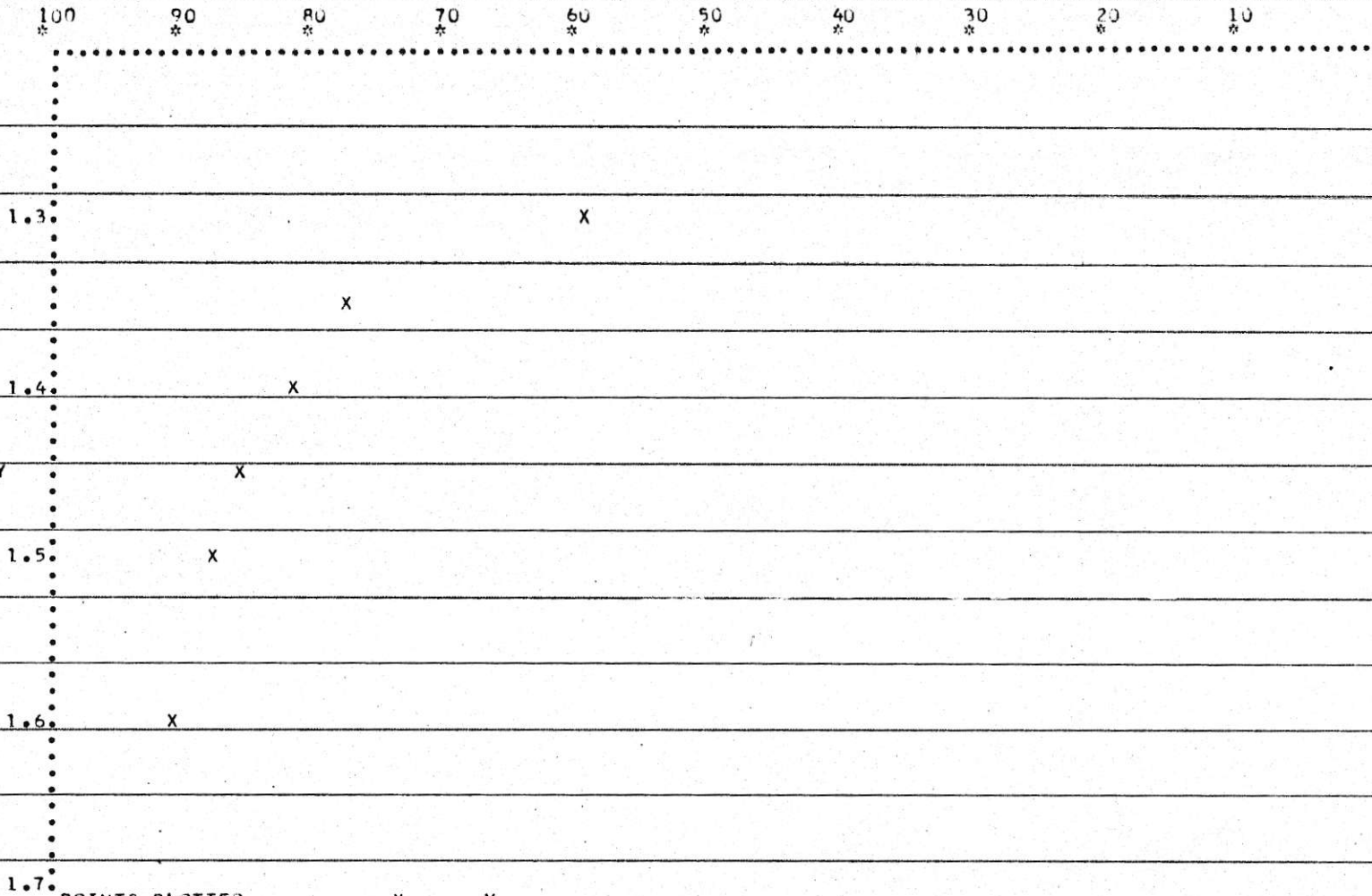
POINTS PLOTTED

X	Y
59	4
77	5
81	6
85	6
87	7
90	8
99	13

CUMULATIVE FLOATS WEIGHT PERCENT

100 \* 90 \* 80 \* 70 \* 60 \* 50 \* 40 \* 30 \* 20 \* 10 \*

CUMULATIVE FLOATS WEIGHT PERCENT



SPECIFIC GRAVITY

POINTS PLOTTED

X	Y
59	10
77	15
81	20
85	25
87	30
90	40

CUMPO NUMBER- W072

DRILL HOLE NUMBER- 1757

SEAM NUMBER- 47328

FLOTATION RESULTS

KERDSENE 0.90

FROTHER 0.20

*R14 SEAM HORIZON*

PRODUCT	WEIGHT (GMS)	WEIGHT %	ASSAY		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	267.	79.9	14.9	7.5	48.7	90.0
TAILS	66.	20.1	62.3	1.0	51.3	10.0
CALC. HEAD	328.	100.0	24.4		100.0	100.0

TABLE 1

## WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

SG	WT. (GMS.)	WT. %	CUM. WT. %	FRACTION ASH %	ASH WT. OF TOT.	CUM. WT. %	CUM. FLTS. ASH	SINKS WT. %	ASH	CUM. SINKS WT. %	CUM. SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	840.	30.66	30.66	3.90	1.20	1.20	3.90	36.28		69.34	52.32	3.90	15.33	7.5
1.30-1.35	186.	6.79	37.45	10.20	0.69	1.89	5.04	35.59		62.55	56.89	10.20	34.05	7.0
1.35-1.40	90.	3.28	40.73	14.70	0.48	2.37	5.82	35.11		59.27	59.23	14.70	39.09	7.0
1.40-1.45	101.	3.69	44.42	19.30	0.71	3.08	6.94	34.39		55.58	61.88	19.30	42.57	6.5
1.45-1.50	110.	4.01	48.43	26.40	1.06	4.14	8.55	33.33		51.57	64.64	26.40	46.42	5.0
1.50-1.60	255.	9.31	57.74	34.40	3.20	7.34	12.72	30.13		42.26	71.30	34.40	53.08	3.5
1.60 SINK	1158.	42.26	100.00	71.30	30.13	37.48	37.48	0.00		0.00	0.0	71.30	78.87	1.0

FOR OPTIMUM RECOVERIES

TABLE 2

RECOVERY AND ASH CALCULATIONS								
FFRF	FFREAF	A	R	FR	FAR	FRAI	FRI	AP
0.0939	0.0140	4.0	31.3	0.2766	0.0111	0.0251	.371	6.8
0.0939	0.0140	6.0	41.4	0.3653	0.0219	0.0359	.459	7.8
0.0939	0.0140	8.0	47.7	0.4162	0.0333	0.0473	.510	9.3
0.0939	0.0140	10.0	51.8	0.4570	0.0457	0.0597	.551	10.8
0.0939	0.0140	12.0	56.2	0.4960	0.0595	0.0735	.590	12.5
0.0939	0.0140	14.0	60.5	0.5336	0.0747	0.0887	.628	14.1
0.0939	0.0140	16.0	64.6	0.5703	0.0912	0.1052	.664	15.8
0.0939	0.0140	18.0	68.6	0.6056	0.1090	0.1230	.699	17.6
0.0939	0.0140	20.0	72.5	0.6396	0.1279	0.1419	.734	19.3

CUMPO NUMBER- W072

DRILL HOLE NUMBER- 1757

SEAM NUMBER- 47328

DATA  
SIZE DISTRIBUTION

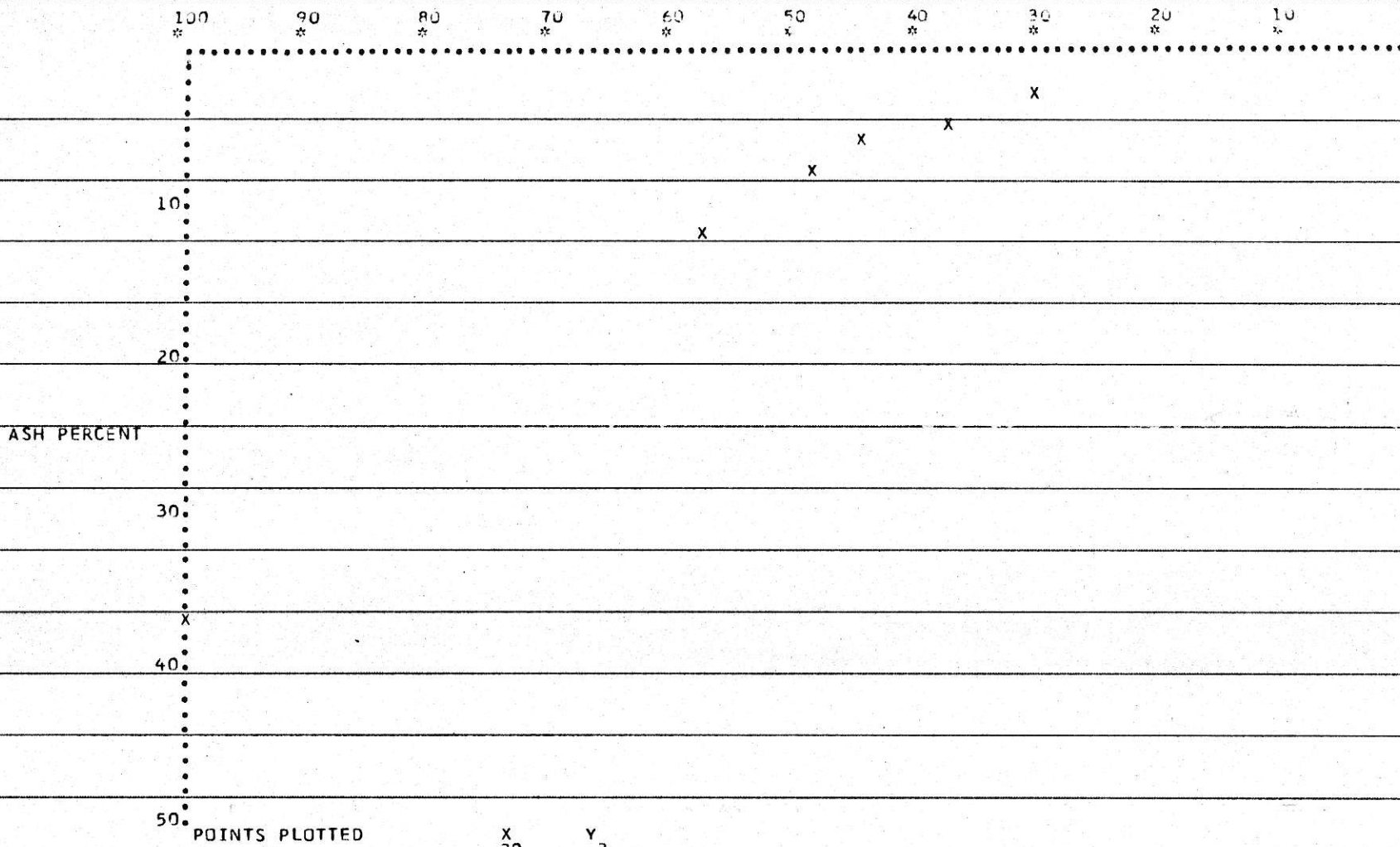
*R 14 SEAM HORIZON*

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MESH	2878.	88.2	37.5
-28MESH	374.	11.8	24.4
FEED	3182.	100.0	35.9

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	14.90	79.88		9.39	18.69
PLUS 28	7.65	46.79	1.47	40.85	81.31
COMBINED	8.50	50.74		50.24	100.00
FLOTATION	14.90	79.88		9.39	18.25
PLUS 28	8.21	47.67	1.49	42.77	81.75
COMBINED	9.00	51.45		51.45	100.00
FLOTATION	14.90	79.88		9.39	17.85
PLUS 28	8.78	48.97	1.51	43.21	82.15
COMBINED	9.50	52.60		52.60	100.00
FLOTATION	14.90	79.88		9.39	17.46
PLUS 28	9.35	50.29	1.52	44.38	82.54
COMBINED	10.00	53.77		53.77	100.00

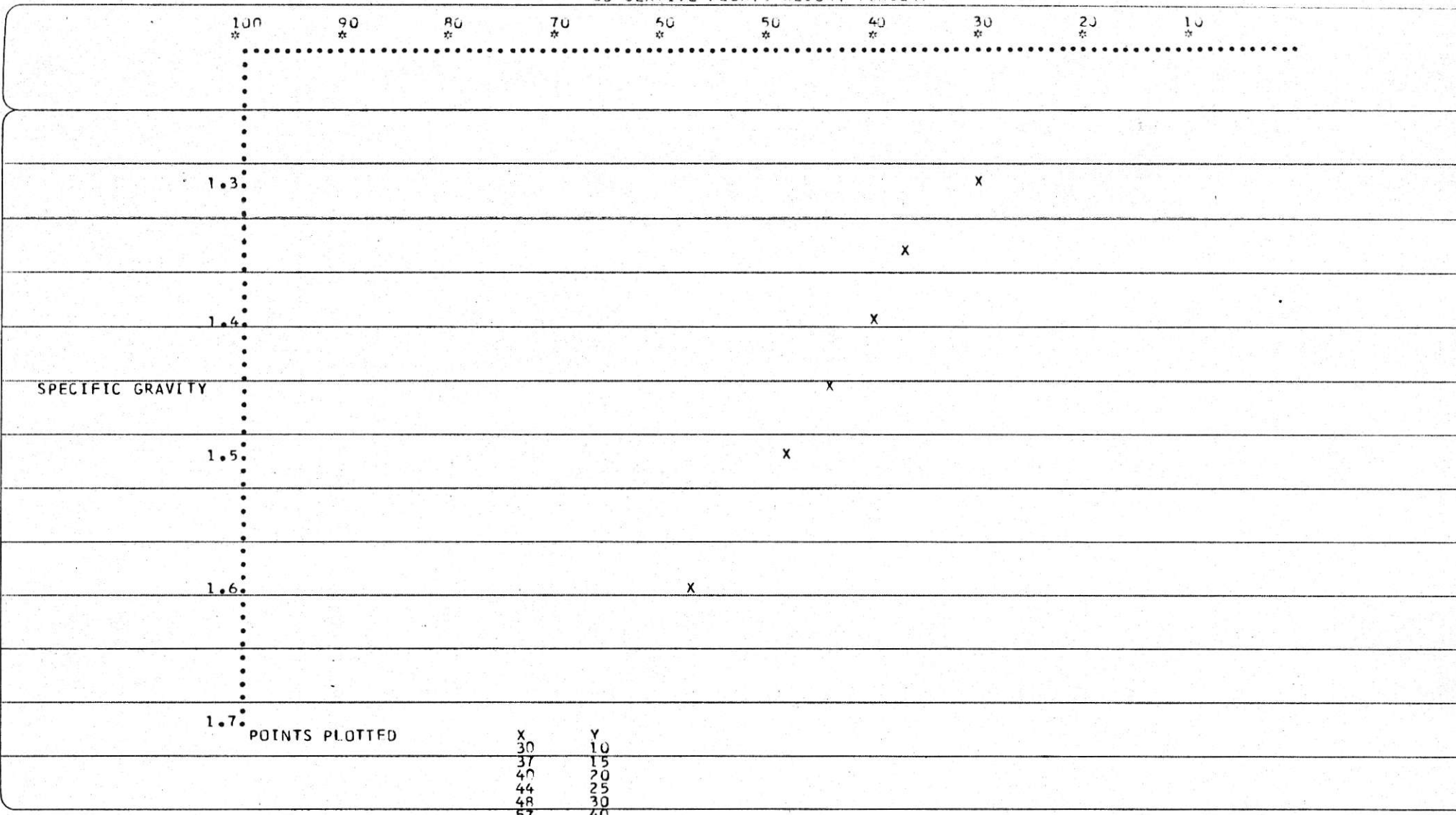
CUMULATIVE FLOATS WEIGHT PERCENT



POINTS PLOTTED

X	Y
30	3
37	5
40	5
44	6
48	8
57	12
99	37

CUMULATIVE FLOATS WEIGHT PERCENT



POINTS PLOTTED

X	Y
30	10
37	15
40	20
44	25
48	30
57	40

COMPO NUMBER- W071

DRILL HOLE NUMBER- 1757

SEAM NUMBER- 47327

FLOTATION RESULTS

KEROSENE 0.00 FROTHER 0.20 *R1A 61*



COMPO NUMBER- W071

DRILL HOLE NUMBER- 1757

SEAM NUMBER- 4732

FLOTATION RESULTS

KEROSENE 0.90 FROTHER 0.20

*R14 Horizon*

PRODUCT	WEIGHT (GMS)	WEIGHT %	ASSAY		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	234.	87.3	7.9	7.5	51.6	92.8
TAILS	34.	12.7	51.1	3.0	48.4	7.2
CALC. HEAD	268.	100.0	13.4		100.0	100.0

TABLE 1

## WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

SG	WT. (GMS.)	WT. %	CUM.WT. %	FRACTION ASH %	ASH WT. OF TOT.	CUM.WT. %	CUM.FLTS. ASH	SINKS WT. %	ASH WT. %	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	1003.	47.13	47.13	4.50	2.12	2.12	4.50	21.03	52.87	39.77	4.50	23.57	7.0	
1.30-1.35	250.	11.75	58.88	12.30	1.45	3.57	6.06	19.58	41.12	47.62	12.30	53.01	7.5	
1.35-1.40	184.	8.65	67.53	18.40	1.59	5.16	7.64	17.99	32.47	55.41	18.40	63.20	6.0	
1.40-1.45	194.	9.12	76.64	24.00	2.19	7.34	9.58	15.80	23.36	67.66	24.00	72.09	6.0	
1.45-1.50	13.	0.61	77.26	26.10	0.16	7.50	9.71	15.64	22.74	68.78	26.10	76.95	6.0	
1.50-1.60	9.	0.42	77.68	36.10	0.15	7.66	9.86	15.49	22.32	69.40	36.10	77.47	5.0	
1.60 SINK	475.	22.32	100.00	69.40	15.49	23.15	23.15	0.0	0.00	0.0	69.40	88.84	1.0	

## FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAF	RECOVERY AND ASH CALCULATIONS		FR		FRAI	FRI	AP
		A	R	FR	FAR			
0.0973	0.0077	4.0	42.7	0.3792	0.0152	0.0229	.477	4.3
0.0973	0.0077	6.0	58.5	0.5199	0.0317	0.0389	.617	5.3
0.0973	0.0077	8.0	69.3	0.6162	0.0493	0.0570	.714	8.0
0.0973	0.0077	10.0	78.1	0.6938	0.0694	0.0771	.791	9.7
0.0973	0.0077	12.0	83.5	0.7420	0.0890	0.0967	.839	11.5
0.0973	0.0077	14.0	88.2	0.7836	0.1097	0.1174	.881	13.3
0.0973	0.0077	16.0	92.1	0.8184	0.1309	0.1386	.916	15.1
0.0973	0.0077	18.0	95.3	0.8466	0.1524	0.1601	.944	17.0
0.0973	0.0077	20.0	97.7	0.8681	0.1736	0.1813	.965	18.8

COMPO NUMBER- W071

DRILL HOLE NUMBER- 1757

SEAM NUMBER- 4727

DATA

SIZE DISTRIBUTION

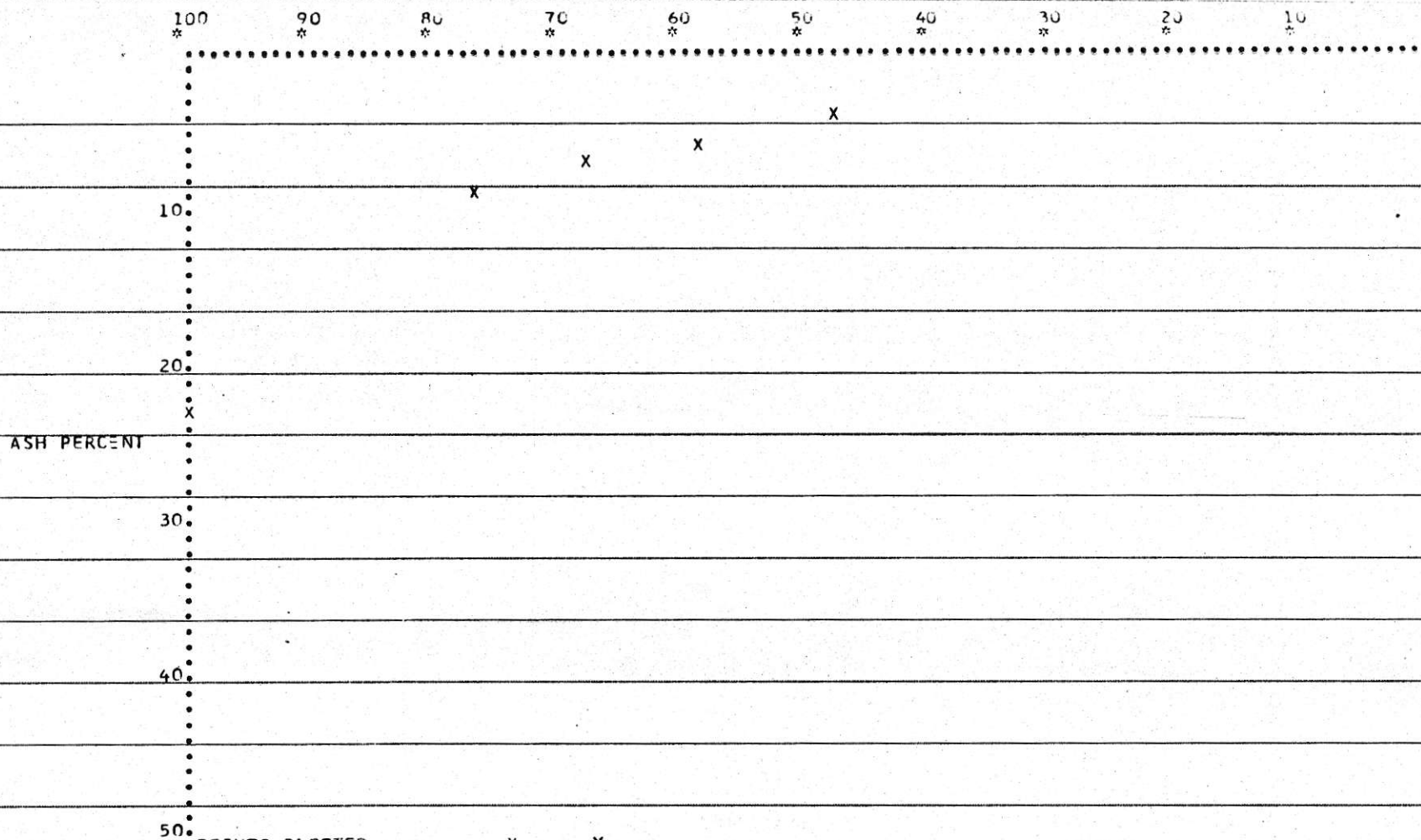
R14 HORIZON

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MESH	2168.	88.9	23.1
-28MESH	272.	11.1	13.4
FEED	2440.	100.0	22.1

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	7.90	87.31		9.73	13.19
PLUS 28	8.58	77.09	1.35	64.05	86.81
COMBINED	8.50	73.78		73.78	100.00
FLOTATION	7.90	87.31		9.73	12.79
PLUS 28	9.14	74.69	1.38	66.36	87.21
COMBINED	9.00	76.10		76.10	100.00
FLOTATION	7.90	87.31		9.73	12.67
PLUS 28	9.70	75.48	2.34	67.07	87.33
COMBINED	9.50	76.80		76.80	100.00
FLOTATION	7.90	87.31		9.73	12.20
PLUS 28	10.26	78.84	+1.60	70.05	87.80
COMBINED	10.00	79.78		79.78	100.00

CUMULATIVE FLOATS WEIGHT PERCENT



ASH PERCENT

POINTS PLOTTED

X	Y
47	4
58	6
67	7
76	9
77	9
77	9
99	23

CUMULATIVE FLOATS WEIGHT PERCENT

100 \*      90 \*      80 \*      70 \*      60 \*      50 \*      40 \*      30 \*      20 \*      10 \*

1.3

X

X

1.4

X

SPECIFIC GRAVITY

X

1.5

X

1.6

X

1.7

POINTS PLOTTED

X	Y
47	10
58	15
67	20
76	25
77	30
77	40

COMPO NUMBER- W074

DRILL HOLE NUMBER- 1757

SEAM NUMBER- *P13* 47331-332

FLOTATION RESULTS

KEROSENE 0.90 FROTHER 0.20

PRODUCT	WEIGHT (GMS)	WEIGHT %	ASSAY		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	768.	82.7	14.8	8.0	52.8	91.7
TAILS	56.	17.3	63.2	1.0	47.2	8.3
CALC. HEAD	324.	100.0	23.2		100.0	100.0

TABLE 1

## WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

SG	WT. (GMS.)	WT. %	CUM.WT. %	FRACTION ASH %	ASH WT. OF TOT.	CUM.WT. %	CUM.FLTS. ASH	SINKS WT. %	ASH	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	1267.	28.90	28.90	3.40	0.98	0.98	3.40	38.04	71.10	53.50	3.40	14.45	7.5	
1.30-1.35	378.	8.62	37.52	9.40	0.81	1.79	4.78	37.23	62.48	59.58	9.40	33.21	7.5	
1.35-1.40	204.	4.65	42.18	14.60	0.68	2.47	5.86	36.55	57.82	63.20	14.60	39.85	6.0	
1.40-1.45	149.	3.40	45.57	20.60	0.70	3.17	6.96	35.85	54.43	65.87	20.60	43.88	5.5	
1.45-1.50	88.	2.01	47.58	27.20	0.55	3.72	7.82	35.30	52.42	67.35	27.20	46.58	4.0	
1.50-1.60	140.	3.19	50.78	32.60	1.04	4.76	9.37	34.26	49.22	69.60	32.60	49.18	3.5	
1.60 SINK	2158.	49.22	100.00	69.60	34.26	39.02	39.02	0.00	0.00	0.0	69.60	75.39	1.0	

TABLE 2

RECOVERY AND ASH CALCULATIONS



FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAF	RECOVERY		AND ASH CALCULATIONS		FRAI	FRI	AP
		A	R	FR	FAR			
0.0923	0.0137	4.0	33.0	0.2934	0.0117	0.0254	.386	6.6
0.0923	0.0137	6.0	42.7	0.3791	0.0227	0.0364	.471	7.7
0.0923	0.0137	8.0	48.0	0.4264	0.0341	0.0478	.519	9.2
0.0923	0.0137	10.0	52.7	0.4624	0.0467	0.0599	.555	10.8
0.0923	0.0137	12.0	56.0	0.4977	0.0597	0.0734	.590	12.4
0.0923	0.0137	14.0	59.9	0.5322	0.0745	0.0882	.624	14.1
0.0923	0.0137	16.0	63.7	0.5657	0.0905	0.1042	.658	15.8
0.0923	0.0137	18.0	67.4	0.5984	0.1077	0.1214	.691	17.6
0.0923	0.0137	20.0	70.9	0.6302	0.1260	0.1397	.722	19.3

COMPO NUM3FR- W074

DRILL HOLE NUMBER- 1757

SEAM NUMBER- R13 47331-332

## DATA

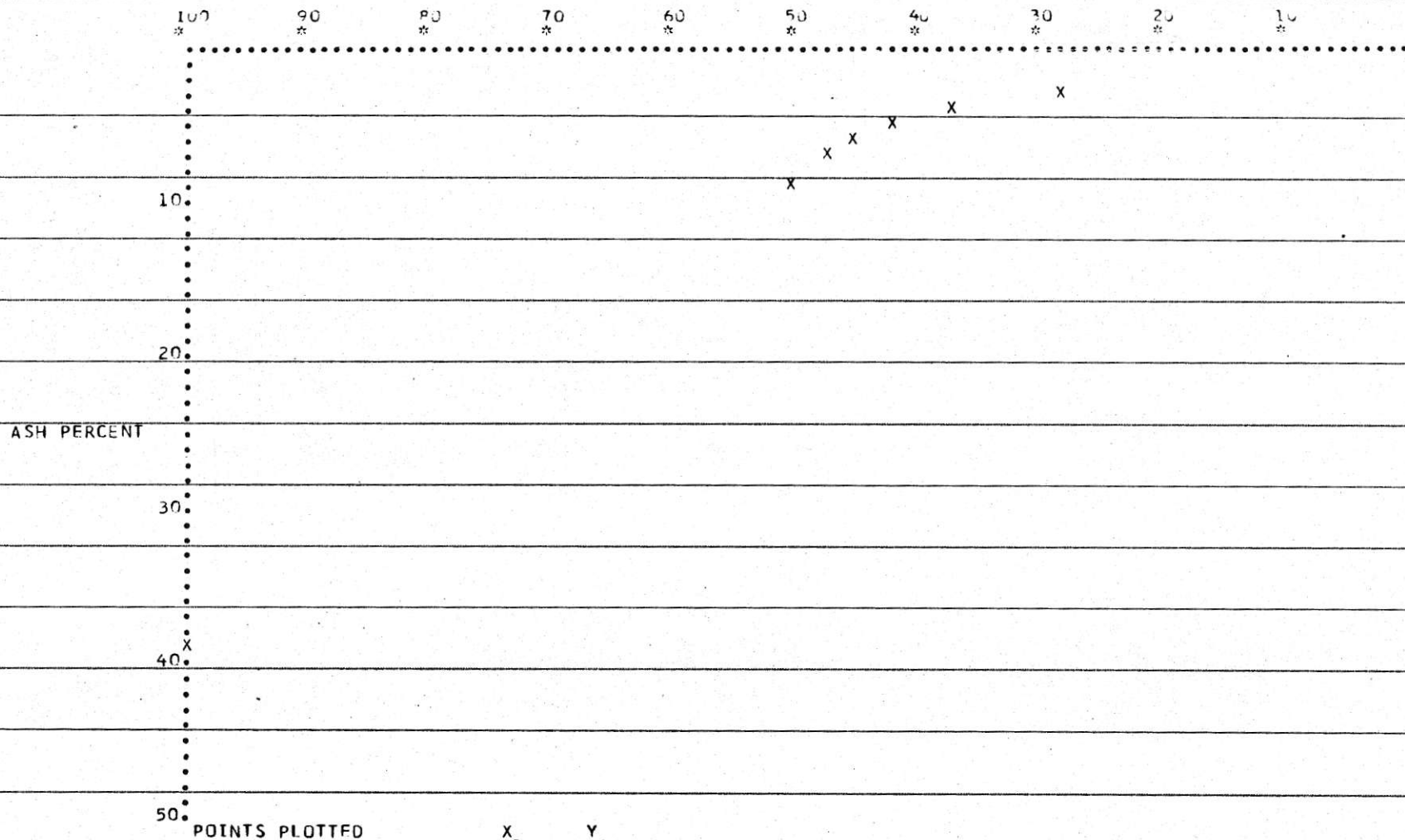
## SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MESH	4444.	88.8	39.0
-28MESH	558.	11.2	23.2
FEED	5002.	100.0	37.3

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	14.80	82.72		9.23	17.98
PLUS 28	7.71	47.37	1.49	42.09	82.02
COMBINED	8.50	51.31		51.31	100.00
FLOTATION	14.80	82.72		9.23	17.62
PLUS 28	8.27	48.56	1.53	43.15	82.38
COMBINED	9.00	52.37		52.37	100.00
FLOTATION	14.80	82.72		9.23	17.28
PLUS 28	8.83	49.72	1.56	44.17	82.72
COMBINED	9.50	53.40		53.40	100.00
FLOTATION	14.80	82.72		9.23	16.97
PLUS 28	9.40	50.82	+1.60	45.15	83.03
COMBINED	10.00	54.38		54.38	100.00

CUMULATIVE FLOATS WEIGHT PERCENT



POINTS PLOTTED

X	Y
28	3
37	4
42	5
45	6
47	7
50	9
99	39

CUMULATIVE FLUATS WEIGHT PERCENT

100 \* 90 \* 80 \* 70 \* 60 \* 50 \* 40 \* 30 \* 20 \* 10 \*

1.3

X

1.4

X

SPECIFIC GRAVITY

X

1.5

X

1.6

X

1.7

POINTS PLOTTED

X	Y
28	10
37	15
42	20
45	25
47	30
28	28

COMPO NUMBER- WC73

DRILL HOLE NUMBER- 1757

SEAM NUMBER- 11 R 10 4125

## FLOTATION RESULTS

KEROSENE 0.90

FROTHER 0.20

PRODUCT	WEIGHT (GMS)	WEIGHT %	ASSAY		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	283.	87.3	5.4	7.5	42.4	93.0
TAILS	41.	12.7	50.6	3.5	57.6	7.0
CALC. HEAD	324.	100.0	11.1		100.0	100.0

TABLE 1

## WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

SG	WT. (GMS.)	WT. %	CUM.WT. %	FRACTION ASH %	ASH WT. OF TOT.	CUM.WT. %	CUM.FLTS. ASH	SINKS WT. %	ASH %	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	2288.	57.24	57.27	2.80	1.60	1.60	2.80	15.28		42.73	35.76	2.80	28.64	7.5
1.30-1.35	461.	11.54	68.81	6.60	0.76	2.37	3.44	14.52		31.19	46.55	6.60	63.04	6.5
1.35-1.40	236.	5.91	74.72	10.80	0.64	3.00	4.02	13.88		25.28	54.90	10.80	71.76	4.0
1.40-1.45	223.	5.58	80.30	17.60	0.98	3.99	4.96	12.90		19.70	65.47	17.60	77.51	2.5
1.45-1.50	131.	3.28	83.58	22.80	0.75	4.73	5.66	12.15		16.42	73.99	22.80	81.94	2.5
1.50-1.60	62.	1.55	85.13	26.00	0.40	5.14	6.03	11.75		14.87	79.00	26.00	84.36	2.5
1.60 SINK	594.	14.87	100.00	79.00	11.75	16.88	16.88	0.0		0.00	0.0	79.00	92.57	0.0

FOR OPTIMUM RECOVERIES

TABLE 2

FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAF	RECOVERY AND ASH CALCULATIONS		FR	FAR	FRAI	FRI	AP
		A	R					
0.0878	0.0047	4.0	74.6	0.6709	0.0268	0.0316	.759	4.2
0.0878	0.0047	6.0	85.0	0.7646	0.0459	0.0506	.852	5.9
0.0878	0.0047	8.0	92.2	0.8295	0.0664	0.0711	.917	7.8
0.0878	0.0047	10.0	97.4	0.8763	0.0876	0.0924	.964	9.6
0.0878	0.0047	12.0	****	0.9051	0.1086	0.1134	.993	11.4
0.0878	0.0047	14.0	****	0.9159	0.1282	0.1330	****	13.2
0.0878	0.0047	16.0	****	0.9086	0.1454	0.1501	.996	15.1

COMPO NUMBER- W073

DRILL HOLE NUMBER- 1757

SEAM NUMBER- *PT R13* 47330

## DATA

## SIZE DISTRIBUTION

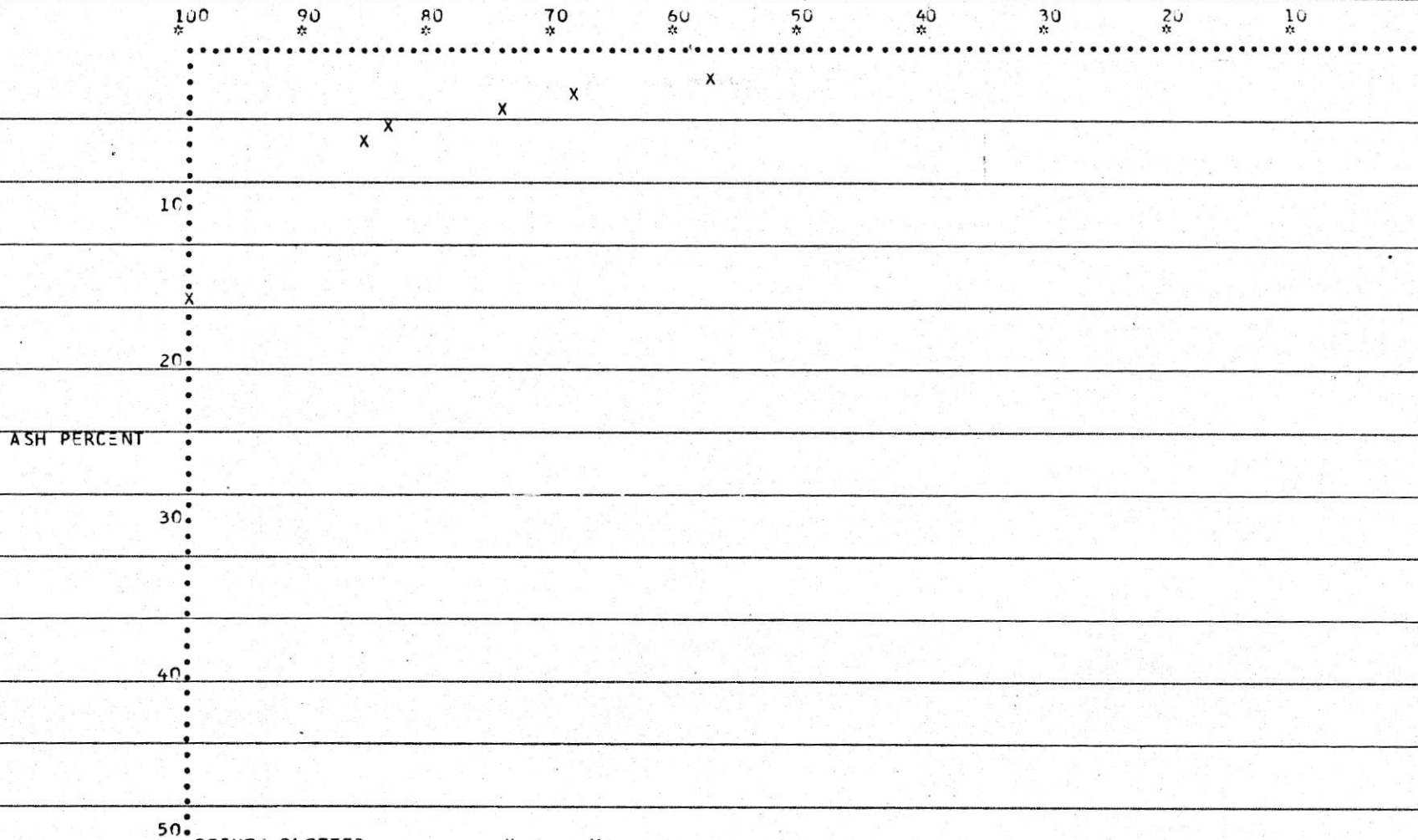
SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MESH	4056.	90.0	16.9
-28MESH	453.	10.0	11.1
FEED	4509.	100.0	16.3

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	5.40	87.35		8.78	9.34
PLUS 28	8.85	94.66	+1.60	85.15	90.66
COMBINED	8.50	93.93		93.93	100.00
FLOTATION	5.40	87.35		8.78	9.22
PLUS 28	9.40	96.07	+1.60	86.42	90.78
COMBINED	9.00	95.20		95.20	100.00
FLOTATION	5.40	87.35		8.78	9.11
PLUS 28	9.96	97.33	+1.60	87.55	90.89
COMBINED	9.50	96.33		96.33	100.00
FLOTATION	5.40	87.35		8.78	9.02
PLUS 28	10.51	98.43	+1.60	88.55	90.98
COMBINED	10.00	97.32		97.32	100.00



CUMULATIVE FIDATS WEIGHT PERCENT



POINTS PLOTTED

X	Y
57	2
68	3
74	4
80	4
83	5
85	6
99	16

CUMULATIVE FLOATS WEIGHT PERCENT

100 \* 90 \* 80 \* 70 \* 60 \* 50 \* 40 \* 30 \* 20 \* 10 \*

1.3

X

X

1.4

X

SPECIFIC GRAVITY

X

1.5

X

1.6

X

1.7

POINTS PLOTTED

X	Y
57	10
68	15
74	20
80	25
83	30
85	40

COMPO NUMBER- W076

DRILL HOLE NUMBER- 1757

SEAM NUMBER- *R11a* 47337-341

FLOTATION RESULTS

PRODUCT	KEROSENE 0.75		FROTHER 0.15		DISTRIBUTION	
	WEIGHT (GMS)	WEIGHT %	ASSAY ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	226.	69.1	5.8	8.5	40.5	72.3
TAILS	101.	30.9	19.1	7.0	59.5	27.7
CALC. HEAD	327.	100.0	9.9		100.0	100.0

PRODUCT	KEROSENE 0.90		FROTHER 0.20		DISTRIBUTION	
	WEIGHT (GMS)	WEIGHT %	ASSAY ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	274.	84.0	7.2	8.0	58.0	87.1
TAILS	52.	16.0	27.5	6.5	42.0	12.9
CALC. HEAD	326.	100.0	10.4		100.0	100.0

TABLE 1

WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

R. L. SPAIN INC. PRINTED IN CANADA

TABLE 1

## WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

SG	WT. (G/45.)	WT. %	CUM. WT. %	FRACTION ASH %	ASH WT. OF TOT.	CUM. WT. %	CUM. FLTS. ASH	SINKS WT. %	ASH	CUM. SINKS WT. %	CUM. SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	1788.	54.03	54.03	2.90	1.57	1.57	2.90	20.68	45.97	44.99	2.90	27.02	8.0	
.30-1.35	356.	10.76	64.79	8.70	0.94	2.50	3.86	19.74	35.21	56.08	8.70	59.41	6.0	
.35-1.40	153.	4.62	69.42	13.00	0.60	3.10	4.47	19.14	30.58	62.59	13.00	67.10	5.5	
.40-1.45	116.	3.51	72.93	17.20	0.60	3.71	5.08	18.54	27.08	68.47	17.20	71.17	3.0	
.45-1.50	68.	2.06	74.98	22.90	0.47	4.18	5.57	18.07	25.02	72.21	22.90	73.95	2.5	
.50-1.60	55.	1.66	76.64	28.80	0.48	4.66	6.08	17.59	23.36	75.30	28.80	75.81	1.5	
.60 SINK	773.	23.36	100.00	75.30	17.59	22.25	22.25	0.0	0.00	0.0	75.30	88.32	0.0	

FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAF	RECOVERY		AND ASH CALCULATIONS		FRAI	FRI	AP
		A	R	FR	FAR			
0.2214	0.0128	4.0	66.0	0.4483	0.0179	0.0308	.670	4.6
0.2214	0.0128	6.0	76.4	0.5194	0.0312	0.0440	.741	5.9
0.2214	0.0128	8.0	82.5	0.5605	0.0448	0.0577	.782	7.4
0.2214	0.0128	10.0	87.7	0.5958	0.0596	0.0724	.817	8.9
0.2214	0.0128	12.0	92.0	0.6250	0.0750	0.0878	.846	10.4
0.2214	0.0128	14.0	95.4	0.6481	0.0907	0.1036	.870	11.9
0.2214	0.0128	16.0	97.9	0.6652	0.1064	0.1193	.887	13.5
0.2214	0.0128	18.0	99.5	0.6763	0.1217	0.1346	.898	15.0
0.2214	0.0128	20.0	***	0.6813	0.1363	0.1491	.903	16.5

PRINTED IN CANADA

R. L. CRAIG INC.

COMPO NUMBER- W076

DRILL HOLE NUMBER- 1757

SEAM NUMBER- ~~R11a~~ 7337-341

## DATA

R11a

## SIZE DISTRIBUTION

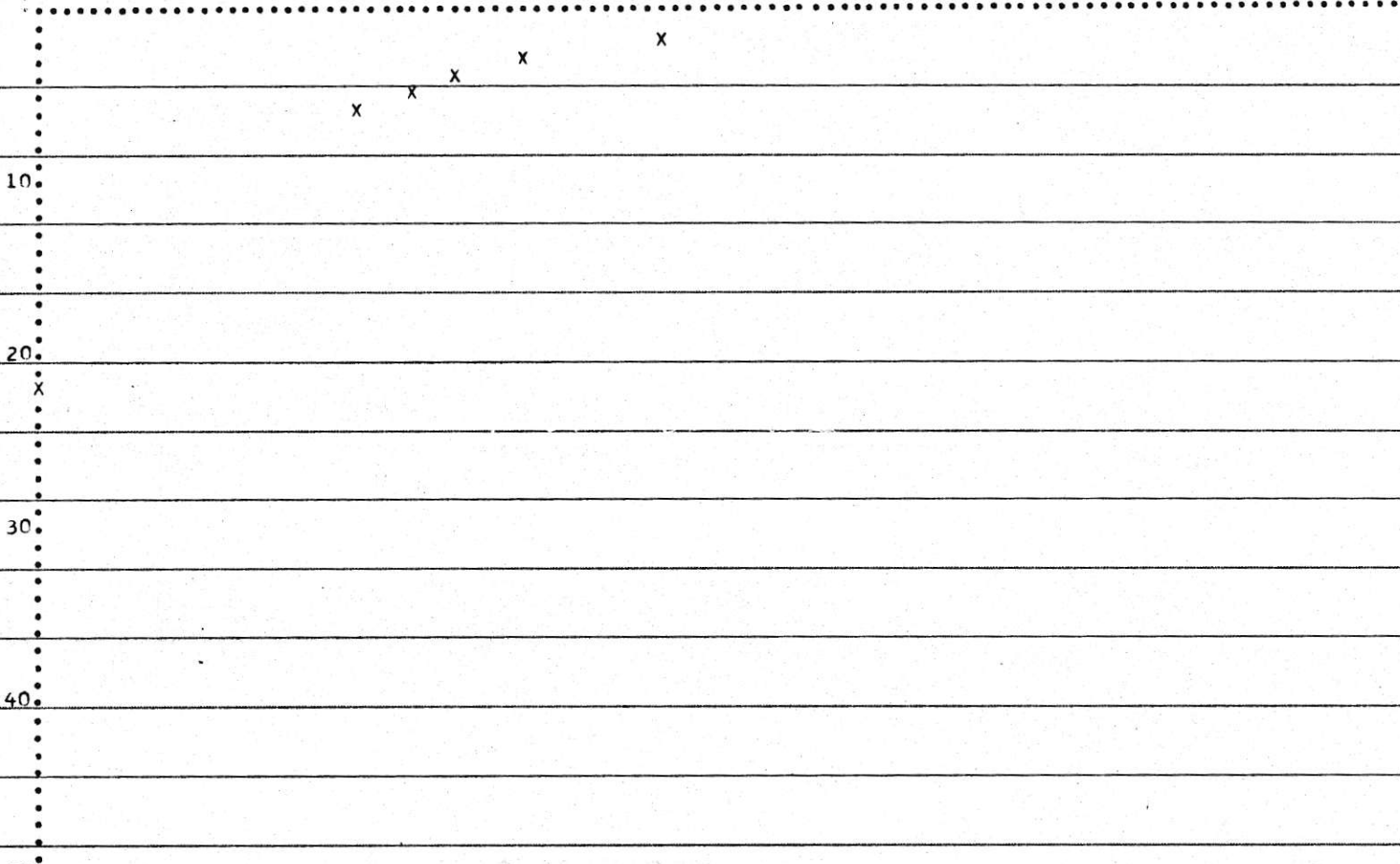
SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MFSH	3389.	68.0	22.2
-28MFSH	1597.	32.0	17.4
FEED	4986.	100.0	18.5

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	5.80	69.11		22.14	27.21
PLUS 28	9.77	87.11	+1.60	59.21	77.79
COMBINED	8.50	81.35		81.35	100.00
FLOTATION	5.80	69.11		22.14	26.83
PLUS 28	10.51	88.83	+1.60	60.38	73.17
COMBINED	9.00	82.51		82.51	100.00
FLOTATION	5.80	69.11		22.14	26.48
PLUS 28	11.24	90.43	+1.60	61.47	73.52
COMBINED	9.50	83.60		83.60	100.00
FLOTATION	5.80	69.11		22.14	26.16
PLUS 28	11.98	91.91	+1.60	62.47	73.84
COMBINED	10.00	84.61		84.61	100.00

CUMULATIVE FLOATS WEIGHT PERCENT

100\* 90\* 80\* 70\* 60\* 50\* 40\* 30\* 20\* 10\*



ASH PERCENT

50 POINTS PLOTTED

X	Y
54	2
64	3
69	4
72	5
74	5
76	6
99	22

CUMULATIVE FLOATS WEIGHT PERCENT

100 \* 90 \* 80 \* 70 \* 60 \* 50 \* 40 \* 30 \* 20 \* 10 \*

1.3

X

X

1.4

X

SPECIFIC GRAVITY

X

1.5

X

1.6

X

1.7

POINTS PLOTTED

X	Y
54	10
64	15
69	20
72	25
74	30
76	40



COMPO NUMBER- W075

DRILL HOLE NUMBER- 1757

SEAM NUMBER- ~~P-15~~ 47333-336

R12

FLOTATION RESULTS

PRODUCT	KEROSENE 0.75		FROTHER 0.15		DISTRIBUTION	
	WEIGHT (GMS)	WEIGHT %	ASSAY ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	237.	72.9	7.4	7.5	37.8	78.8
TAILS	88.	27.1	32.8	6.5	62.2	21.2
CALC. HEAD	325.	100.0	14.3		100.0	100.0

PRODUCT	KEROSENE 0.90		FROTHER 0.20		DISTRIBUTION	
	WEIGHT (GMS)	WEIGHT %	ASSAY ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	274.	83.8	8.4	7.5	48.8	89.7
TAILS	53.	16.2	45.6	4.0	51.2	10.3
CALC. HEAD	327.	100.0	14.4		100.0	100.0

TABLE 1

## WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

SG	WT. (GMS.)	WT. %	CUM.WT. %	FRACTION ASH %	ASH WT. OF TOT.	CUM.WT. %	CUM.FLTS. ASH	SINKS WT. %	ASH	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	1692.	39.98	39.90	3.20	1.28	1.28	3.20	25.33		60.10	42.14	3.20	19.95	7.5
1.30-1.35	587.	13.84	53.74	9.00	1.25	2.52	4.69	24.08		46.26	52.05	9.00	46.82	7.0
1.35-1.40	318.	7.50	61.24	13.80	1.03	3.56	5.81	23.05		38.76	59.45	13.80	57.49	6.0
1.40-1.45	172.	4.06	65.29	19.40	0.79	4.34	6.65	22.26		34.71	64.13	19.40	63.26	5.0
1.45-1.50	86.	2.03	67.32	25.20	0.51	4.85	7.21	21.75		32.68	66.55	25.20	66.31	3.5
1.50-1.60	104.	2.45	69.77	31.40	0.77	5.62	8.06	20.98		30.23	69.40	31.40	68.55	5.0
1.60 SINK	1282.	30.23	100.00	69.40	20.98	26.60	26.60	0.00		0.00	0.0	69.40	84.89	0.5

FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAF	RECOVERY		ASH CALCULATIONS		FRAI	FRI	AP
		A	R	FR	FAR			
0.1175	0.0099	4.0	47.9	0.4114	0.0165	0.0263	.529	5.0
0.1175	0.0099	6.0	62.3	0.5355	0.0321	0.0420	.653	6.4
0.1175	0.0099	8.0	69.7	0.5988	0.0479	0.0578	.716	8.1
0.1175	0.0099	10.0	75.0	0.6449	0.0645	0.0744	.762	9.8
0.1175	0.0099	12.0	79.9	0.6870	0.0824	0.0923	.805	11.5
0.1175	0.0099	14.0	84.3	0.7247	0.1015	0.1113	.842	13.2
0.1175	0.0099	16.0	88.2	0.7579	0.1213	0.1311	.875	15.0
0.1175	0.0099	18.0	91.5	0.7867	0.1416	0.1515	.904	16.8
0.1175	0.0099	20.0	94.3	0.8110	0.1622	0.1721	.929	18.5

CUMULATIVE FLOATS WEIGHT PERCENT

100 90 80 70 60 50 40 30 20 10

COMPO NUMBER- W075

DRILL HOLE NUMBER- 1757

SFAM NUMBER- ~~47333-335~~

DATA

R-12

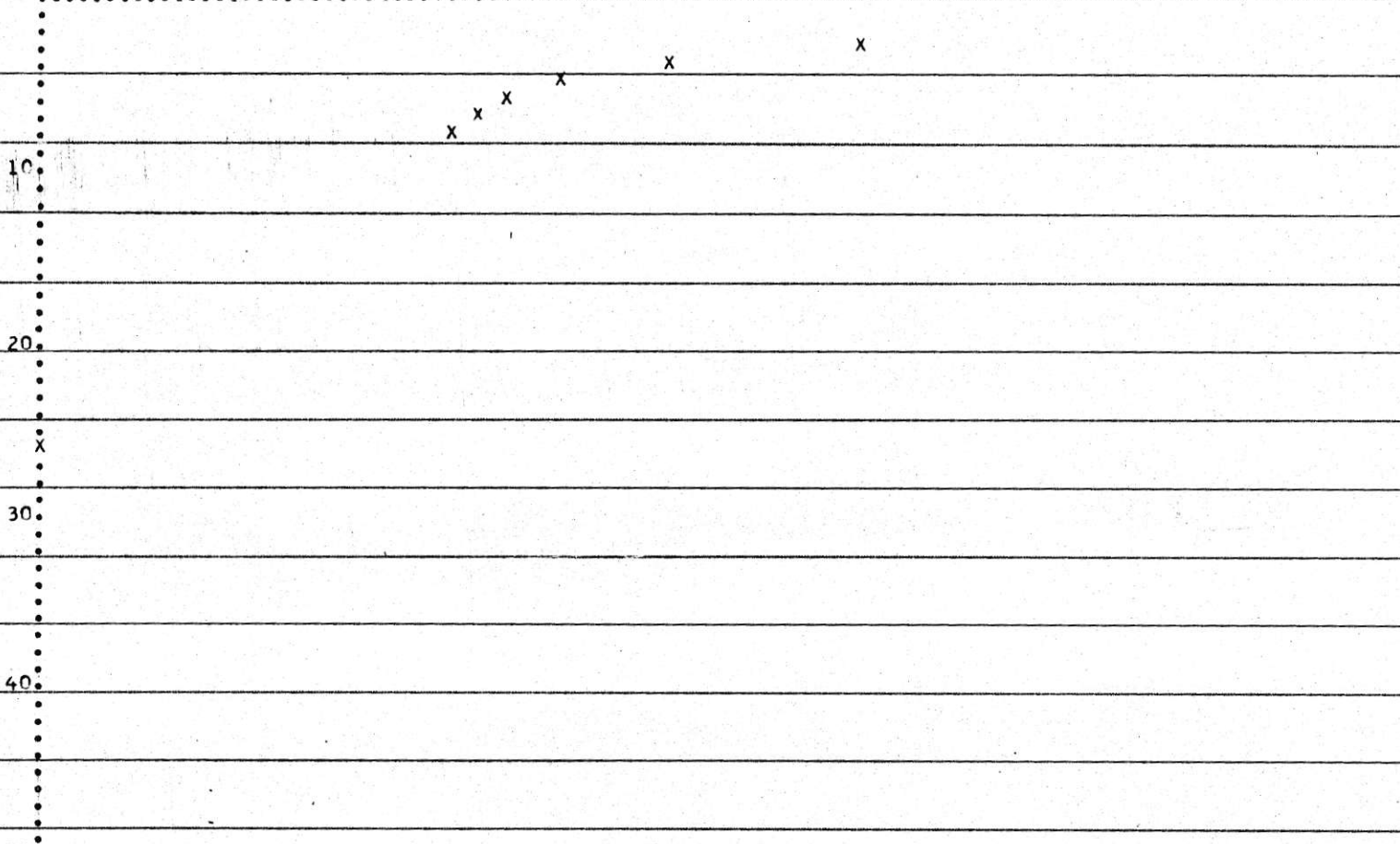
SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MESH	4291.	86.0	26.6
-28MESH	700.	14.0	14.4
FEED	4991.	100.0	24.9

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	8.40	83.79		11.75	16.14
PLUS 28	8.52	71.04	+1.60	61.08	84.86
COMBINED	8.50	72.83		72.83	100.00
FLOTATION	8.40	83.79		11.75	15.84
PLUS 28	9.10	72.63	+1.60	62.45	84.16
COMBINED	9.00	74.20		74.20	100.00
FLOTATION	8.40	83.79		11.75	15.56
PLUS 28	9.68	74.18	+1.60	63.77	84.44
COMBINED	9.50	75.53		75.53	100.00
FLOTATION	8.40	83.79		11.75	15.30
PLUS 28	10.26	75.68	+1.60	65.07	84.70
COMBINED	10.00	76.82		76.82	100.00

100 \* 90 \* 80 \* 70 \* 60 \* 50 \* 40 \* 30 \* 20 \* 10 \*



POINTS PLOTTED

X	Y
39	3
53	4
61	5
65	6
67	7
69	8
99	26

CUMULATIVE FLOATS WEIGHT PERCENT

100 \* 90 \* 80 \* 70 \* 60 \* 50 \* 40 \* 30 \* 20 \* 10 \*

CUMULATIVE FLOATS WEIGHT PERCENT

100\* 90\* 80\* 70\* 60\* 50\* 40\* 30\* 20\* 10\*

1.3

X

X

1.4

X

SPECIFIC GRAVITY

X

1.5

X

1.6

X

1.7

POINTS PLOTTED

X	Y
39	10
53	15
61	20
65	25
67	30
69	40

COMPO NUMBER- 4078

DRILL HOLE NUMBER- 1757

SEAM NUMBER- A7u 47344

## FLOTATION RESULTS

PRODUCT	KEROSENE 0.75		FROTHER 0.15		DISTRIBUTION	
	WEIGHT (GMS)	WEIGHT %	ASSAY ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	310.	95.1	3.4	7.5	80.5	96.7
TAILS	16.	4.9	39.3	2.0	19.5	3.3
CALC. HEAD	326.	100.0	9.9		100.0	100.0

PRODUCT	KEROSENE 0.90		FROTHER 0.20		DISTRIBUTION	
	WEIGHT (GMS)	WEIGHT %	ASSAY ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	317.	97.8	3.7	7.5	88.3	98.9
TAILS	7.	2.2	52.3	1.0	11.7	1.1
CALC. HEAD	324.	100.0	9.6		100.0	100.0

TABLE 1

## WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

SG	WT. (GMS.)	WT. %	CUM.WT. %	FRACTION ASH %	ASH WT. OF TOT.	CUM.WT. %	CUM.FLTS. ASH	SINKS WT. %	ASH	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	1233.	44.97	44.97	3.40	1.53	1.53	3.40	17.38		55.03	31.58	3.40	22.48	8.0
1.30-1.35	429.	15.65	60.61	7.40	1.16	2.69	4.43	16.27		39.39	41.19	7.40	52.79	6.0
1.35-1.40	183.	6.67	67.29	12.60	0.84	3.53	5.24	15.38		32.71	47.02	12.60	63.95	5.5
1.40-1.45	153.	5.58	72.87	18.40	1.03	4.55	6.25	14.36		27.13	52.91	18.40	70.08	3.0
1.45-1.50	95.	3.46	76.33	23.10	0.80	5.35	7.01	13.56		23.67	57.27	23.10	74.60	2.5
1.50-1.60	74.	2.70	79.03	28.30	0.76	6.12	7.74	12.79		20.97	61.00	28.30	77.68	1.5
1.60 SINK	575.	20.97	100.00	61.00	12.79	18.91	18.91	0.0		0.00	0.0	61.00	89.51	1.0



FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAF	RECOVERY		AND ASH CALCULATIONS		FRAI	FRI	AP
		A	R	FR	FAR			
0.2009	0.0169	4.0	55.0	0.4341	0.0174	0.0342	.635	5.4
0.2009	0.0169	6.0	71.7	0.5552	0.0339	0.0508	.766	6.6
0.2009	0.0169	8.0	80.0	0.6306	0.0504	0.0673	.832	8.1
0.2009	0.0169	10.0	86.4	0.6812	0.0681	0.0850	.882	9.6
0.2009	0.0169	12.0	91.6	0.7222	0.0867	0.1035	.923	11.2
0.2009	0.0169	14.0	95.5	0.7534	0.1055	0.1224	.954	12.8
0.2009	0.0169	16.0	98.2	0.7749	0.1240	0.1409	.976	14.4
0.2009	0.0169	18.0	99.7	0.7866	0.1416	0.1585	.988	16.0

PRINTED IN CANADA  
P. L. GRAHAM INC.

COMPO NUMBER- W078

DRILL HOLE NUMBER- 1757

SEAM NUMBER- 47344

## DATA

## SIZE DISTRIBUTION

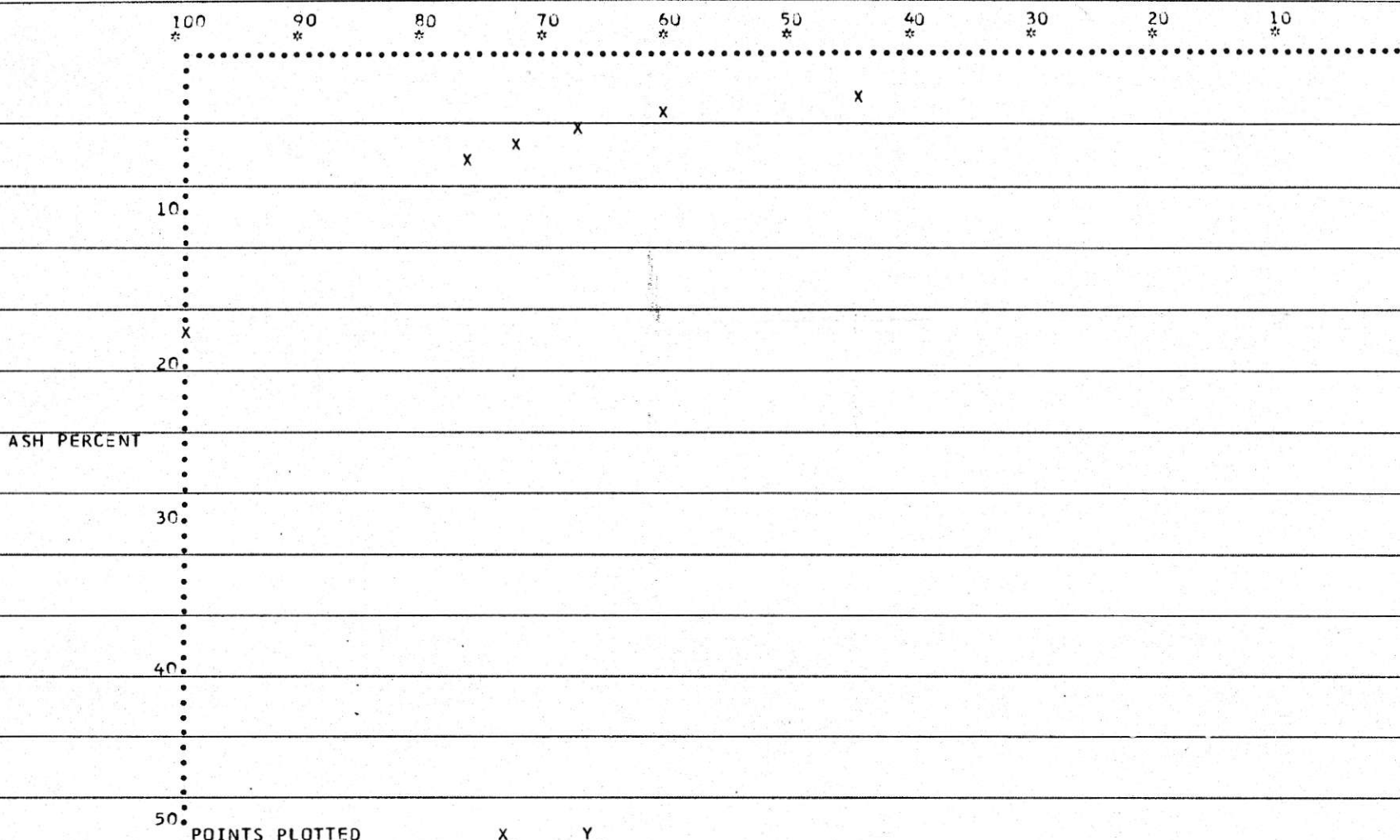
SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MESH	2792.	78.9	18.9
-28MESH	748.	21.1	9.6
FEED	3540.	100.0	17.0

TABLE 3

AREA	% ASH	OPTIMUM	PLUS 28	% FEED	% OF
	IN PRODUCT	RECOVERY	S.G.	AS PRODUCT	PRODUCT
FLOTATION	8.40	95.09		20.09	23.76
PLUS 28	8.53	81.76	+1.60	64.49	76.74
COMBINED	8.50	84.58		84.58	100.00
FLOTATION	8.40	95.09		20.09	23.31
PLUS 28	9.16	83.83	+1.60	66.12	76.69
COMBINED	9.00	86.21		86.21	100.00
FLOTATION	8.40	95.09		20.09	22.90
PLUS 28	9.79	85.77	+1.60	67.65	77.10
COMBINED	9.50	87.74		87.74	100.00
FLOTATION	8.40	95.09		20.09	22.53
PLUS 28	10.43	87.59	+1.60	69.08	77.47
COMBINED	10.00	89.18		89.18	100.00

CUMULATIVE FLOATS WEIGHT PERCENT

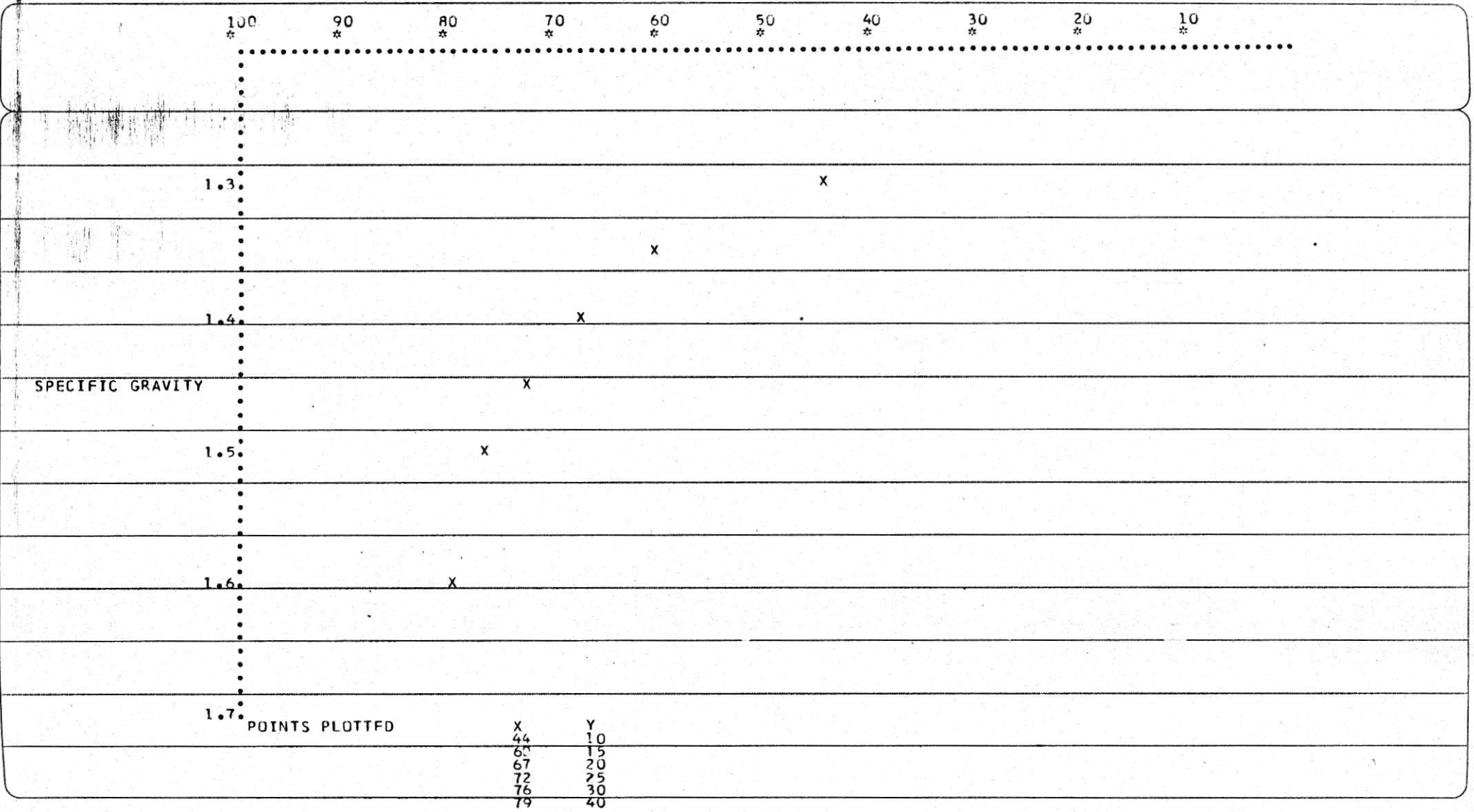
CUMULATIVE FLOATS WEIGHT PERCENT



POINTS PLOTTED

X	Y
44	3
60	4
67	5
72	6
76	7
79	7
99	18

CUMULATIVE FLOATS WEIGHT PERCENT



COMPO NUMBER- W077

DRILL HOLE NUMBER- 1757

SEAM NUMBER- ~~1757~~ 473-2-343

FLOTATION RESULTS

RS

PRODUCT	KEROSENE 0.75		FROTHER 0.15		DISTRIBUTION	
	WEIGHT (GMS)	WEIGHT %	ASSAY ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	269.	83.0	10.1	7.5	48.0	90.5
TAILS	55.	17.0	53.6	1.5	52.0	9.5
CALC. HEAD	324.	100.0	17.5		100.0	100.0

PRODUCT	KEROSENE 0.90		FROTHER 0.20		DISTRIBUTION	
	WEIGHT (GMS)	WEIGHT %	ASSAY ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	288.	88.9	11.8	7.5	60.1	95.0
TAILS	36.	11.1	62.7	1.0	39.9	5.0
CALC. HEAD	324.	100.0	17.5		100.0	100.0

TABLE 1

WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

SG	WT. (GMS.)	WT. %	CUM. WT. %	FRACTION ASH %	ASH WT. OF TOT.	CUM. WT. %	CUM. FLTS. ASH	SINKS WT. %	ASH CUM. SINKS WT. %	CUM. SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	1357	12.57	12.57	12.57									

TABLE 1

## WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

SG	WT. (GMS.)	WT. %	CUM. WT. %	FRACTION ASH %	ASH WT. OF TOT.	CUM. WT. %	CUM. FLTS. ASH	SINKS ASH WT. %	CUM. SINKS WT. %	CUM. SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	1357.	32.57	32.57	3.20	1.04	1.04	3.20	22.31	67.43	33.09	3.20	16.28	7.5
1.30-1.35	833.	19.99	52.56	8.70	1.74	2.78	5.29	20.57	47.44	43.36	8.70	42.56	6.3
1.35-1.40	588.	14.11	66.67	13.00	1.93	4.67	6.92	18.74	33.33	56.21	13.00	59.61	2.5
1.40-1.45	272.	6.53	73.19	17.70	1.16	5.77	7.88	17.58	26.81	65.59	17.70	69.93	1.5
1.45-1.50	102.	2.45	75.64	23.70	0.58	6.35	8.40	17.00	24.36	69.80	23.70	74.42	1.5
1.50-1.60	78.	1.87	77.51	32.60	0.61	6.96	8.98	16.39	22.49	72.90	32.60	76.58	2.5
1.60 SINK	937.	22.49	100.00	72.90	16.39	23.35	23.35	0.00	0.00	0.0	72.90	88.76	0.5

FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFFAF	RECOVERY		AND ASH CALCULATIONS		FRAI	FRI	AP
		A	R	FR	FAR			
0.1257	0.0127	4.0	40.5	0.3433	0.0137	0.0264	.469	5.6
0.1257	0.0127	6.0	59.0	0.5006	0.0300	0.0427	.676	6.8
0.1257	0.0127	8.0	74.0	0.6277	0.0502	0.0629	.753	8.4
0.1257	0.0127	10.0	80.6	0.6839	0.0684	0.0811	.810	10.0
0.1257	0.0127	12.0	86.0	0.7297	0.0876	0.1003	.855	11.7
0.1257	0.0127	14.0	90.5	0.7680	0.1075	0.1202	.894	13.5
0.1257	0.0127	16.0	94.1	0.7989	0.1278	0.1405	.925	15.2
0.1257	0.0127	18.0	96.9	0.8224	0.1480	0.1607	.948	17.0
0.1257	0.0127	20.0	98.8	0.8384	0.1677	0.1804	.964	18.7

COMPO NUMBER- W077

DRILL HOLE NUMBER- 1757

SEAM NUMBER ~~211~~ 7342-343

DATA

COMPO NUMBER- WC77

DRILL HOLE NUMBER- 1757

SEAM NUMBER ~~173-2-143~~

R9

DATA  
SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MESH	4231.	84.9	23.4
-28MESH	755.	15.1	17.5
FEED	4986.	100.0	22.5

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	10.10	83.02		12.57	16.49
PLUS 28	8.21	75.02	1.49	63.66	81.51
COMBINED	8.50	76.23		76.23	100.00
FLOTATION	10.10	83.02		12.57	16.12
PLUS 28	8.80	77.09	1.58	65.41	83.88
COMBINED	9.00	77.99		77.99	100.00
FLOTATION	10.10	83.02		12.57	15.83
PLUS 28	9.39	78.79	+1.60	66.86	84.17
COMBINED	9.50	79.43		79.43	100.00
FLOTATION	10.10	83.02		12.57	15.54
PLUS 28	9.98	80.55	+1.60	68.35	84.46
COMBINED	10.00	80.92		80.92	100.00

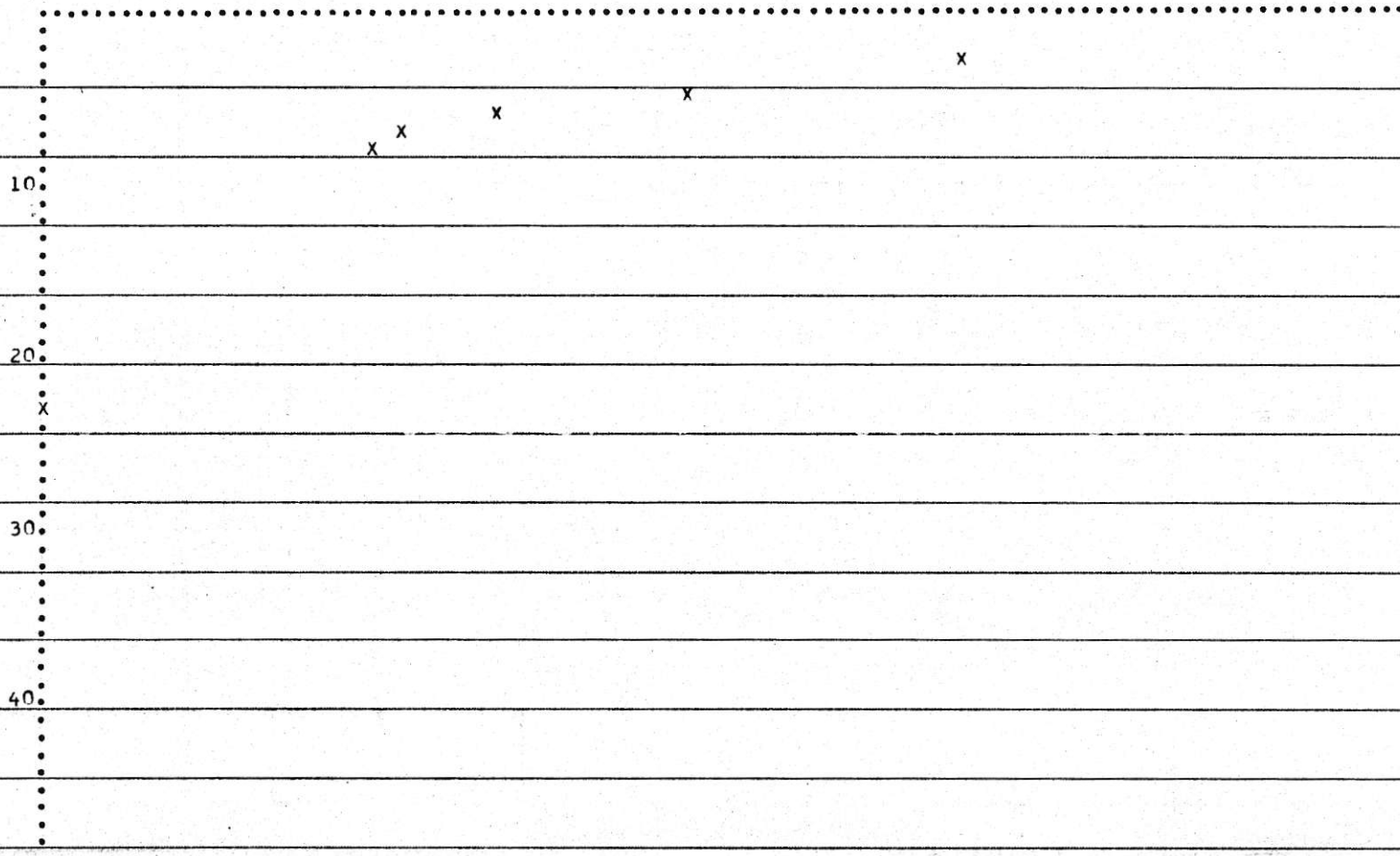
CUMULATIVE FLOATS WEIGHT PERCENT

100 \*    90 \*    80 \*    70 \*    60 \*    50 \*    40 \*    30 \*    20 \*    10 \*



CUMULATIVE FLOATS WEIGHT PERCENT

100 \* 90 \* 80 \* 70 \* 60 \* 50 \* 40 \* 30 \* 20 \* 10 \*



ASH PERCENT

50 POINTS PLOTTED

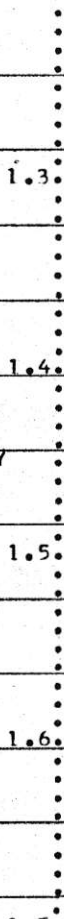
X	Y
32	3
52	5
66	6
73	7
75	8
77	8
99	23

CUMULATIVE FLOATS WEIGHT PERCENT

100 \* 90 \* 80 \* 70 \* 60 \* 50 \* 40 \* 30 \* 20 \* 10 \*

CUMULATIVE FLOATS WEIGHT PERCENT

100 \* 90 \* 80 \* 70 \* 60 \* 50 \* 40 \* 30 \* 20 \* 10 \*



1.3

X

X

1.4

X

SPECIFIC GRAVITY

X

1.5

X

1.6

X

1.7

POINTS PLOTTED

X	Y
32	10
52	15
66	20
73	25
75	30
77	40

COMPO NUMBER- W783

DRILL HOLE NUMBER- 1757

SEAM NUMBER- *R4L* 47280-282

FLOTATION RESULTS

PRODUCT	KEROSENE 0.75		FROTHER 0.15		DISTRIBUTION	
	WEIGHT (GMS)	WEIGHT %	ASSAY ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	296.	91.1	8.0	7.0	56.4	96.2
TAILS	29.	8.9	63.0	0.5	43.6	3.8
CALC. HEAD	325.	100.0	12.9		100.0	100.0

PRODUCT	KEROSENE 0.90		FROTHER 0.20		DISTRIBUTION	
	WEIGHT (GMS)	WEIGHT %	ASSAY ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	301.	(93.8)	(7.5)	7.0	69.2	96.5
TAILS	20.	6.2	50.8	1.0	30.8	3.4
CALC. HEAD	321.	100.0	10.3		100.0	100.0

TABLE 1

WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

SG	WT. (GMS.)	WT. %	CUM. WT. %	FRACTION ASH %	ASH WT. OF TOT.	CUM. WT. %	CUM. FLTS. ASH	SINKS WT. %	ASH CUM. SINKS WT. %	CUM. SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	663	17.3	17.3	3.0	0.52	17.3	1.0	17.3	0.10	17.3	17.3	17.3	

TABLE 1

## WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

SG	WT. (GMS.)	WT. %	CUM.WT. %	FRACTION ASH %	ASH WT. OF TOT.	CUM.WT. %	CUM.FLTS. ASH	SINKS WT. %	ASH	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	663.	17.30 ✓	17.30	3.00 ✓	0.52	0.52	3.00	26.39		82.70	31.92	3.00	8.65	7.5
30-1.35	802.	20.93 ✓	38.23	7.20 ✓	1.51	2.03	5.30	24.89		61.77	40.29	7.20	27.77	5.5
35-1.40	624.	16.28 ✓	54.51	11.60 ✓	1.89	3.91	7.18	23.00		45.49	50.56	11.60	46.37	1.5
40-1.45	437.	11.40 ✓	65.97	16.30 ✓	1.86	5.77	8.76	21.14		34.08	62.03	16.30	60.22	1.0
45-1.50	197.	5.14 ✓	71.06	20.90 ✓	1.07	6.85	9.64	20.07		28.94	69.33	20.90	68.49	1.0
50-1.60	135.	3.52 ✓	74.58	27.00	0.95	7.80	10.46	19.11		25.42	75.20	27.00	72.82	1.0
50 SINK	974.	25.42 ✓	100.00	75.20	19.11	26.91	26.91	0.0		0.00	0.0	75.20	87.29	0.0

## FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAF	RECOVERY		AND ASH CALCULATIONS		FRAI	FRI	AP
		A	R	FR	FAR			
0.1946	0.0148	4.0	26.5	0.2104	0.0784	0.0232	.405	5.7
0.1946	0.0148	6.0	44.5	0.3527	0.0712	0.0360	.547	6.6
0.1946	0.0148	8.0	60.8	0.4814	0.0385	0.0533	.676	7.9
0.1946	0.0148	10.0	72.8	0.5767	0.0577	0.0725	.771	9.4
0.1946	0.0148	12.0	80.6	0.6390	0.0767	0.0915	.834	11.0
0.1946	0.0148	14.0	87.3	0.6921	0.0969	0.1117	.887	12.6
0.1946	0.0148	16.0	92.8	0.7352	0.1176	0.1324	.930	14.2
0.1946	0.0148	18.0	96.9	0.7682	0.1383	0.1531	.963	15.9
0.1946	0.0148	20.0	99.8	0.7911	0.1582	0.1730	.986	17.6

COMPO NUMBER- W083

DRILL HOLE NUMBER- 1757

SEAM NUMBER- R4L 47230-282

DATA  
SIZE DISTRIBUTION

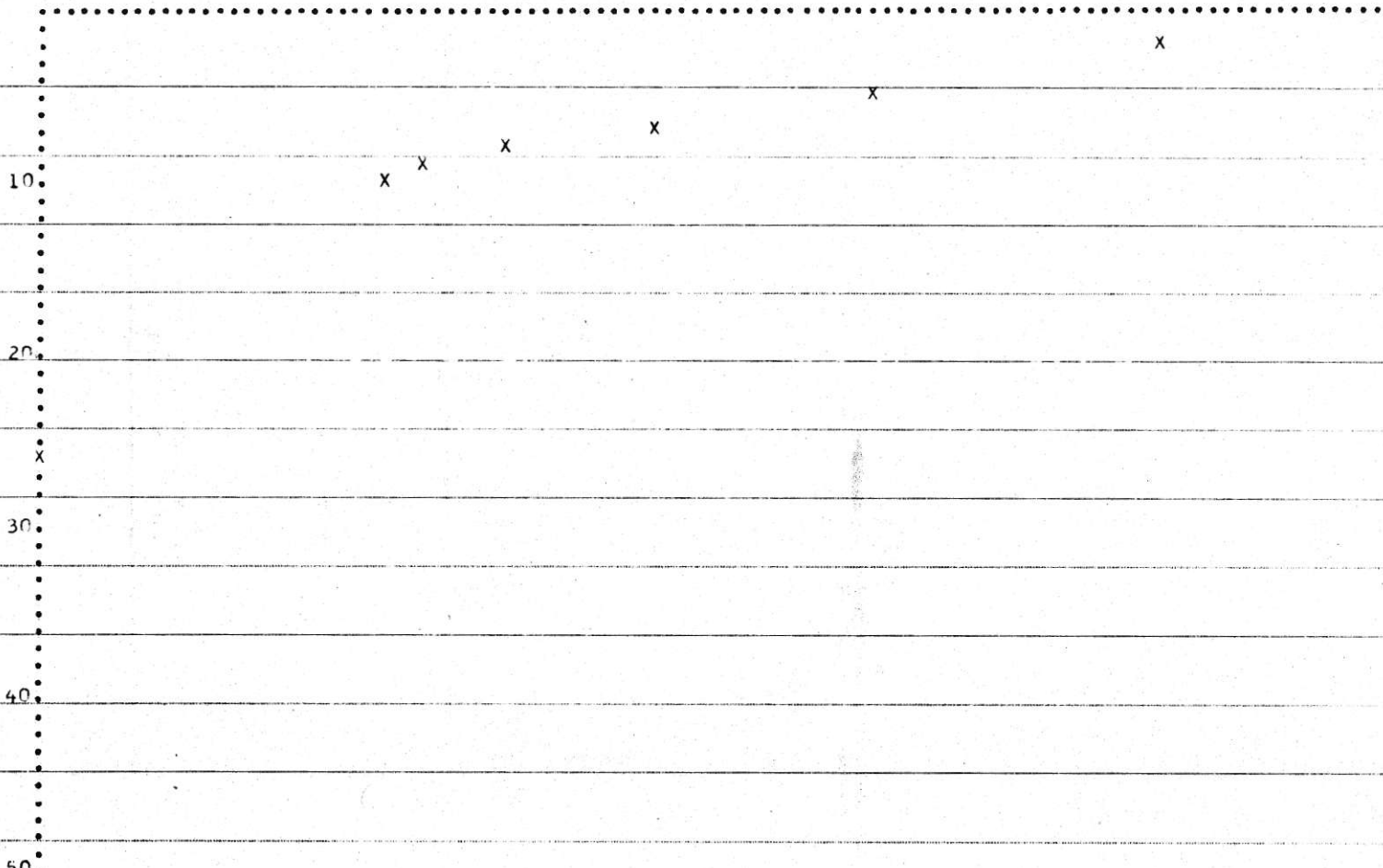
SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MESH	3903.	79.2	26.9
-28MESH	1072.	20.8	10.3
FEED	4975.	100.0	<u>23.5</u>

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	7.60	93.77		19.46	27.18
PLUS 28	8.74	65.79	1.45	52.13	72.82
COMBINED	8.50	71.59		71.59	100.00
FLOTATION	7.60	93.77		19.46	26.06
PLUS 28	9.37	69.67	1.48	55.21	73.94
COMBINED	9.00	74.67		74.67	100.00
FLOTATION	7.60	93.77		19.46	25.23
PLUS 28	10.00	72.75	1.54	57.66	74.77
COMBINED	9.50	77.11		77.11	100.00
FLOTATION	7.60	93.77		19.46	24.59
PLUS 28	10.63	75.29	+1.60	59.67	75.41
COMBINED	10.00	79.12		79.12	100.00

CUMULATIVE FLOATS WEIGHT PERCENT

100\* 90\* 80\* 70\* 60\* 50\* 40\* 30\* 20\* 10\*



ASH PERCENT

POINTS PLOTTED

X	Y
17	2
38	5
54	7
65	8
71	9
74	10
99	26

CUMULATIVE FLOATS WEIGHT PERCENT

100 90 80 70 60 50 40 30 20 10

CUMULATIVE FLOATS WEIGHT PERCENT

100 \* 90 \* 80 \* 70 \* 60 \* 50 \* 40 \* 30 \* 20 \* 10 \*

1.3

X

X

1.4

X

SPECIFIC GRAVITY

X

1.5

X

1.6

X

1.7

POINTS PLOTTED

X	Y
17	10
38	15
54	20
65	25
71	30
74	40



COMPO. NUMBER- 4782

DRILL HOLE NUMBER- 1757

SEAM NUMBER- *R4u* 47275-279

## FLOTATION RESULTS

PRODUCT	KEROSENE 0.75		FROTHER 0.15		DISTRIBUTION	
	WEIGHT (GMS)	WEIGHT %	ASSAY ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	317.	95.7	8.5	2.5	76.7	98.0
TAILS	14.	4.3	57.6	1.0	23.3	2.0
CALC. HEAD	326.	100.0	10.6		100.0	100.0

PRODUCT	KEROSENE 0.97		FROTHER 0.20		DISTRIBUTION	
	WEIGHT (GMS)	WEIGHT %	ASSAY ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	320.	97.6	8.2	2.0	89.6	98.3
TAILS	8.	2.4	37.9	1.0	10.4	1.7
CALC. HEAD	328.	100.0	8.9		100.0	100.0

TABLE 1

## WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

SG	WT. (GMS.)	WT. %	CUM.WT. %	FRACTION ASH %	ASH WT. OF TOT.	CUM.WT. %	CUM.FLTS. ASH	SINKS WT. %	ASH	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	998.	25.04	25.04	3.10	0.78	0.78	3.10	14.80	74.96	19.75	3.10	12.52	5.5	
1.30-1.35	859.	21.56	46.60	6.00	1.29	2.07	4.44	13.51	53.40	25.30	6.00	35.82	1.5	
1.35-1.40	788.	19.77	66.37	9.30	1.84	3.91	5.89	11.67	33.63	34.70	9.30	56.49	1.0	
1.40-1.45	365.	9.16	75.53	14.20	1.30	5.21	6.90	10.37	24.47	42.38	14.20	70.95	1.0	
1.45-1.50	249.	6.25	81.78	18.60	1.16	6.37	7.79	9.21	18.22	50.53	18.60	78.66	1.0	
1.50-1.60	192.	4.82	86.60	26.70	1.29	7.66	8.84	7.92	13.40	59.10	26.70	84.19	1.0	
1.60 SINK	534.	13.40	100.00	59.10	7.92	15.58	15.58	0.00	0.00	0.0	59.10	93.30	1.0	

## FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAF	RECOVERY		AND ASH CALCULATIONS		FRAI	FRI	AP
		A	R	FR	FAR			
0.1835	0.0151	4.0	39.9	0.3235	0.0129	0.0280	.507	5.5
0.1835	0.0151	6.0	67.5	0.5484	0.0329	0.0480	.732	6.6
0.1835	0.0151	8.0	82.9	0.6732	0.0539	0.0689	.857	8.0
0.1835	0.0151	10.0	91.0	0.7392	0.0739	0.0860	.923	9.6
0.1835	0.0151	12.0	96.6	0.7846	0.0941	0.1092	.968	11.3
0.1835	0.0151	14.0	99.6	0.8084	0.1132	0.1282	.992	12.9

COMPO NUMBER- W082

DRILL HOLE NUMBER- 1757

SEAM NUMBER- R4v47276-279

## DATA

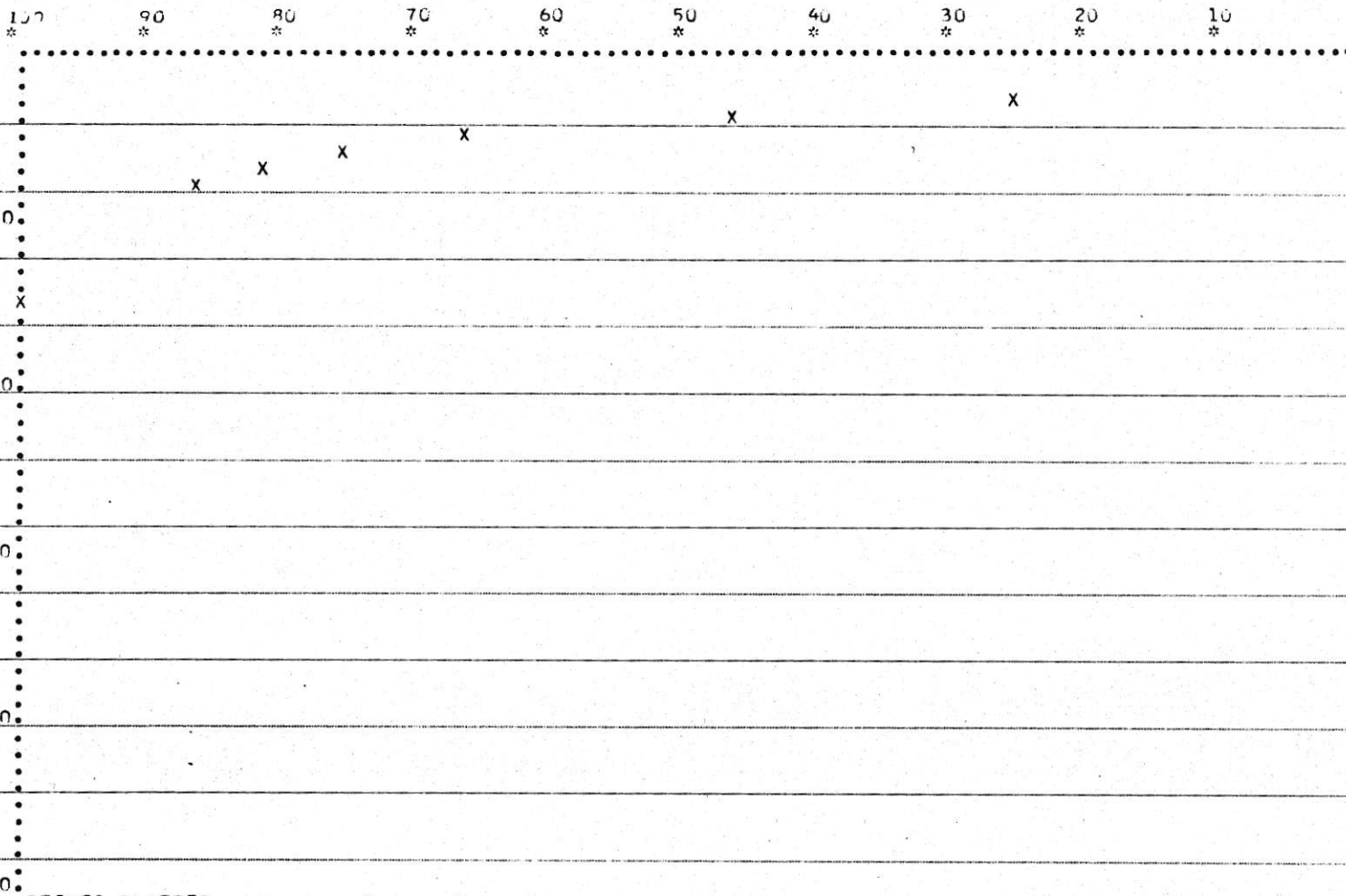
## SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MFSH	3996.	81.2	15.6
-28MFSH	926.	18.8	8.9
FEED	4922.	100.0	14.3

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	8.20	97.56		18.35	20.90
PLUS 28	8.57	85.56	1.57	69.46	79.10
COMBINED	8.50	87.82		87.82	100.00
FLOTATION	8.20	97.56		18.35	20.44
PLUS 28	9.19	88.01	+1.60	71.45	79.56
COMBINED	9.00	89.81		89.81	100.00
FLOTATION	8.20	97.56		18.35	20.01
PLUS 28	9.80	90.35	+1.60	73.35	79.99
COMBINED	9.50	91.71		91.71	100.00
FLOTATION	8.20	97.56		18.35	19.65
PLUS 28	10.42	92.43	+1.60	75.04	80.35
COMBINED	10.00	93.40		93.40	100.00

CUMULATIVE FLOATS WEIGHT PERCENT



ASH PERCENT

POINTS PLOTTED

X	Y
25	3
46	4
66	5
75	6
81	7
86	8
99	15

CUMULATIVE FLOATS WEIGHT PERCENT

100 \* 90 \* 80 \* 70 \* 60 \* 50 \* 40 \* 30 \* 20 \* 10 \*

1.3

X

X

1.4

X

SPECIFIC GRAVITY

X

1.5

X

1.6

X

1.7

POINTS PLOTTED

X	Y
25	10
46	15
66	20
75	25
81	30
86	40

COMPO NUMBER- 4779

DRILL HOLE NUMBER- 1757

SEAM NUMBER- ~~4779~~ 37345-347

R7

## FLOTATION RESULTS

PRODUCT	KEROSENE 0.75		FROTHER 0.15		DISTRIBUTION	
	WEIGHT (GMS)	WEIGHT %	ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	294.	90.7	8.1	5.5	75.1	97.4
TAILS	30.	9.3	26.3	2.0	24.9	7.6
CALC. HEAD	324.	100.0	9.8		100.0	100.0

PRODUCT	KEROSENE 0.97		FROTHER 0.20		DISTRIBUTION	
	WEIGHT (GMS)	WEIGHT %	ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	258.	79.1	8.5	5.5	48.2	84.2
TAILS	68.	20.9	34.7	1.0	51.8	15.8
CALC. HEAD	326.	100.0	14.0		100.0	100.0

TABLE 1

TABLE 1

## WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

SG	WT. (GMS.)	WT. %	CUM.WT. %	FRACTION ASH %	ASH WT. OF TOT.	CUM.WT. %	CUM.FLTS. ASH	SINKS WT. %	ASH WT. %	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	969.	24.26	24.26	2.80	0.68	0.68	2.80	72.93	75.74	30.28	2.80	12.13	7.0	
1.30-1.35	970.	24.29	48.55	5.80	1.41	2.09	4.30	71.52	51.45	41.83	5.80	36.40	3.0	
1.35-1.40	366.	9.16	57.71	10.30	0.94	3.03	5.25	70.58	42.29	48.66	10.30	53.13	2.0	
1.40-1.45	186.	4.66	62.37	15.80	0.74	3.77	6.04	19.84	37.63	52.73	15.80	60.04	1.5	
1.45-1.50	138.	3.46	65.82	20.10	0.69	4.46	6.78	19.15	34.18	56.03	20.10	64.10	1.0	
1.50-1.60	181.	4.53	70.36	24.80	1.12	5.59	7.94	18.02	29.64	60.80	24.80	68.09	1.0	
1.60 SINK	1184.	29.64	100.00	60.80	18.02	23.61	23.61	0.0	0.00	0.0	60.80	85.18	0.0	

PRINTED IN CANADA



FOR OPTIMUM RECOVERIES

TABLE 2

RECOVERY AND ASH CALCULATIONS								
FFRF	FFREAF	A	R	FR	FAR	FRAI	FRI	AP
0.1675	0.0130	4.0	44.6	0.3675	0.0147	0.0277	.528	5.2
0.1675	0.0130	6.0	62.7	0.5119	0.0307	0.0437	.672	6.5
0.1675	0.0130	8.0	70.6	0.5810	0.0465	0.0595	.741	8.0
0.1675	0.0130	10.0	77.6	0.6388	0.0639	0.0769	.799	9.6
0.1675	0.0130	12.0	83.7	0.6887	0.0826	0.0956	.849	11.3
0.1675	0.0130	14.0	88.8	0.7308	0.1023	0.1153	.891	12.9
0.1675	0.0130	16.0	92.9	0.7650	0.1224	0.1354	.925	14.6
0.1675	0.0130	18.0	96.1	0.7913	0.1424	0.1554	.952	16.3
0.1675	0.0130	20.0	98.4	0.8098	0.1620	0.1750	.970	18.0

COMPO NUMBER- 479

DRILL HOLE NUMBER- 1757

SEAM NUMBER- ~~R7~~ 37345-347

R7

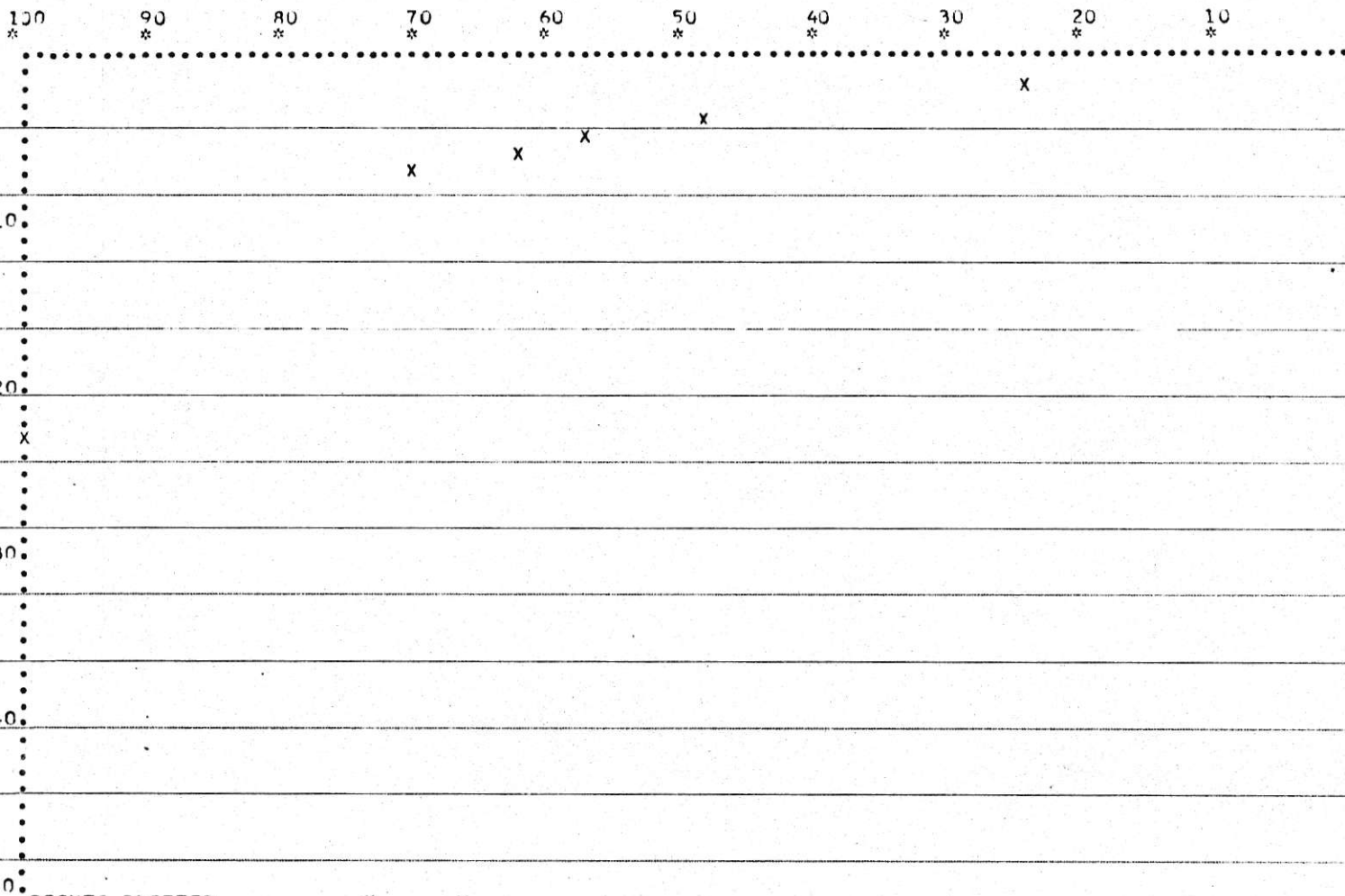
DATA  
SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MESH	4077.	82.3	23.6
-28MESH	876.	17.7	14.0
FEED	4953.	100.0	21.9

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	8.10	90.74		16.05	21.14
PLUS 28	8.59	77.74	+1.60	59.87	78.86
COMBINED	8.50	75.92		75.92	100.00
FLOTATION	8.10	90.74		16.05	20.66
PLUS 28	9.19	74.89	+1.60	61.64	79.34
COMBINED	9.00	77.69		77.69	100.00
FLOTATION	8.10	90.74		16.05	20.22
PLUS 28	9.80	76.95	+1.60	63.34	79.78
COMBINED	9.50	79.39		79.39	100.00
FLOTATION	8.10	90.74		16.05	19.81
PLUS 28	10.41	78.92	+1.60	64.96	80.19
COMBINED	10.00	81.01		81.01	100.00

CUMULATIVE FLOATS WEIGHT PERCENT

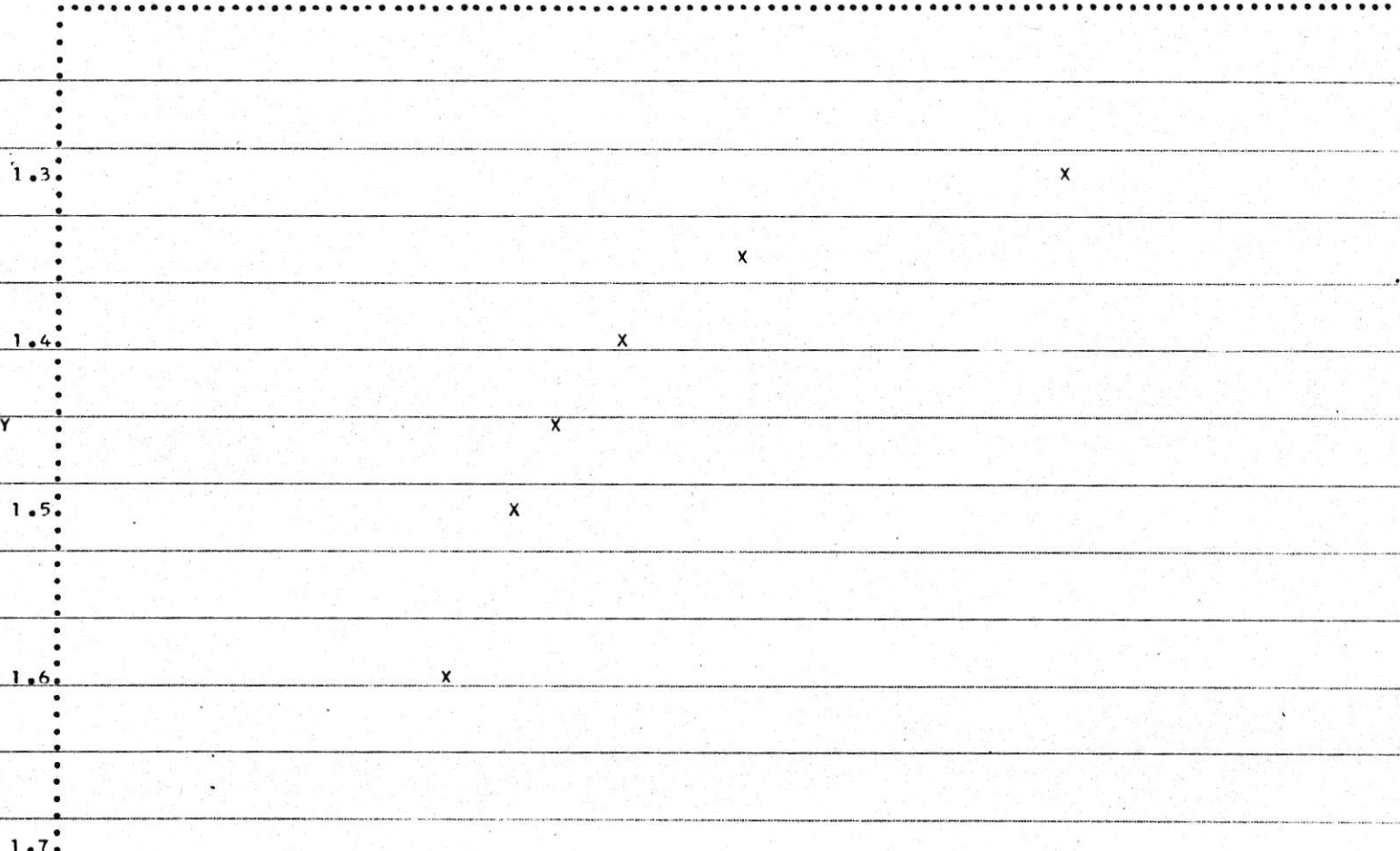


POINTS PLOTTED

X	Y
24	2
48	4
57	5
62	6
65	6
70	7
99	23

CUMULATIVE FLOATS WEIGHT PERCENT

100 \* 90 \* 80 \* 70 \* 60 \* 50 \* 40 \* 30 \* 20 \* 10 \*



SPECIFIC GRAVITY

1.7 POINTS PLOTTED

X	Y
24	10
48	15
57	20
62	25
65	30
70	40

COMPO NUMBER- W084

DRILL HOLE NUMBER- 1757

SEAM NUMBER- 22 47283

FLOTATION RESULTS

KEROSENE 1.05

FROTHER 0.25

PRODUCT	WEIGHT (GMS)	WEIGHT %	ASSAY		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	227.	83.5	12.6	6.5	57.3	89.3
TAILS	45.	16.5	47.4	0.5	42.7	10.7
CALC. HEAD	272.	100.0	18.4		100.0	100.0

TABLE 1

WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

TABLE 1

## WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

SG	WT. (GMS.)	WT. %	CUM.WT. %	FRACTION ASH %	ASH WT. OF TOT.	CUM.WT. %	CUM.FLTS. ASH	SINKS WT. %	ASH	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	803.	39.89	39.89	2.70	1.08	1.08	2.70	23.93		60.11	39.82	2.70	19.95	7.5
1.30-1.35	180.	8.94	48.83	4.80	0.43	1.51	3.08	23.57		51.17	45.94	4.80	44.36	6.0
1.35-1.40	21.	1.04	49.88	8.50	0.79	1.59	3.20	23.42		50.12	46.71	8.50	49.35	1.0
1.40-1.45	12.	0.60	50.47	14.90	0.79	1.68	3.34	23.33		49.53	47.10	14.90	57.17	1.0
1.45-1.50	63.	3.13	53.60	21.40	0.67	2.35	4.39	22.66		46.40	48.83	21.40	52.04	1.0
1.50-1.60	39.	1.94	55.54	26.60	0.52	2.87	5.17	22.14		44.46	49.80	26.60	54.57	1.0
1.60 SINK	895.	44.46	100.00	49.80	22.14	25.01	25.01	0.0		0.00	0.0	49.80	77.77	0.5

FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAF	RECOVERY A	AND ASH R	CALCULATIONS		FRAI	FRI	AP
				FR	FAR			
0.0958	0.0121	4.0	52.7	0.4663	0.0187	0.0307	.562	5.5
0.0958	0.0121	6.0	57.6	0.5100	0.0306	0.0427	.606	7.0
0.0958	0.0121	8.0	62.5	0.5533	0.0443	0.0563	.649	8.7
0.0958	0.0121	10.0	67.3	0.5957	0.0596	0.0716	.691	10.4
0.0958	0.0121	12.0	72.0	0.6372	0.0765	0.0885	.733	12.1
0.0958	0.0121	14.0	76.6	0.6778	0.0949	0.1070	.774	13.8
0.0958	0.0121	16.0	81.0	0.7175	0.1148	0.1269	.813	15.6
0.0958	0.0121	18.0	85.4	0.7563	0.1361	0.1482	.852	17.4
0.0958	0.0121	20.0	89.7	0.7942	0.1588	0.1709	.890	19.2

COMPO NUMBER- W084

DRILL HOLE NUMBER- 1757

SEAM NUMBER- R2 47283

DATA  
SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MF5H	2114.	88.5	25.0
-28MF5H	274.	11.5	18.4
FEED	2388.	100.0	24.2

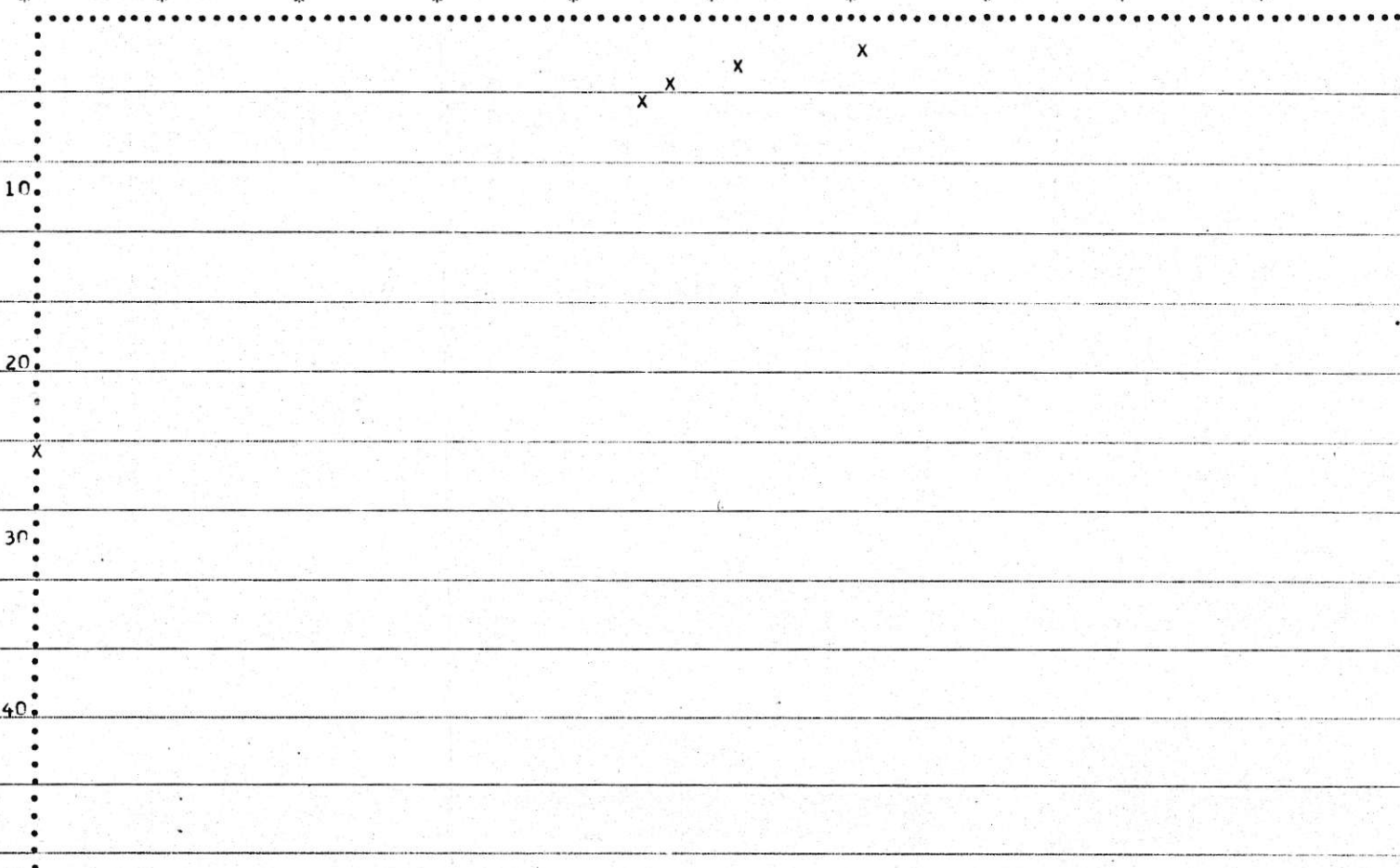
TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	12.60	83.46		9.58	14.77
PLUS 28	7.97	67.42	+1.60	55.26	85.23
COMBINED	8.50	64.84		64.84	100.00
FLOTATION	12.60	83.46		9.58	14.50
PLUS 28	8.53	63.79	+1.60	56.47	85.50
COMBINED	9.00	66.04		66.04	100.00
FLOTATION	12.60	83.46		9.58	14.74
PLUS 28	9.10	65.14	+1.60	57.67	85.76
COMBINED	9.50	67.24		67.24	100.00
FLOTATION	12.60	83.46		9.58	13.99
PLUS 28	9.66	66.49	+1.60	58.86	86.01
COMBINED	10.00	68.43		68.43	100.00



CUMULATIVE FLOATS WEIGHT PERCENT

100 \* 90 \* 80 \* 70 \* 60 \* 50 \* 40 \* 30 \* 20 \* 10 \*



ASH PERCENT

POINTS PLOTTED

X	Y
39	2
48	3
49	3
50	3
53	4
55	5
99	25

CUMULATIVE FLOATS WEIGHT PERCENT

100 \* 90 \* 80 \* 70 \* 60 \* 50 \* 40 \* 30 \* 20 \* 10 \*

CUMULATIVE FIDATS WEIGHT PERCENT

100 \* 90 \* 80 \* 70 \* 60 \* 50 \* 40 \* 30 \* 20 \* 10 \*

1.3

X

X

1.4

X

SPECIFIC GRAVITY

X

1.5

X

1.6

X

1.7

POINTS PLOTTED

X	Y
39	10
48	15
49	20
50	25
53	30
55	40

DRILL HOLE NUMBER- 1757

SEAM NUMBER- A1 47204

FLOTATION RESULTS

PRODUCT	KEROSENE 1.05 WEIGHT (GMS)	WEIGHT %	FROTHER 0.25 ASSAY		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	320.	98.2	10.3	7.3	99.1	98.1
TAILS	6.	1.8	5.0	0.5	0.9	1.9
CALC. HEAD	326.	100.0	9.9		100.0	100.0

TABLE 1

## WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

SG	WT. (GMS.)	WT. %	CUM.WT. %	FRACTION ASH %	ASH WT. OF TOT.	CUM.WT. %	CUM.FLTS. ASH	SINKS WT. %	ASH WT. %	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	392.	12.45	12.45	2.00 ✓	0.25	0.25	2.00	13.72	87.55	15.67	2.00	6.23	8.0	
1.30-1.35	817.	25.95	38.41	6.60 ✓	1.71	1.96	5.11	12.00	61.59	19.49	6.60	25.43	6.0	
1.35-1.40	742.	23.57	61.98	11.00 ✓	2.59	4.55	7.35	9.41	38.02	24.75	11.00	50.19	2.0	
1.40-1.45	520.	16.52	78.49	16.20 ✓	2.68	7.23	9.71	6.73	21.51	31.31	16.20	70.24	3.5	
1.45-1.50	279.	8.86	87.36	21.40	1.90	9.13	10.45	4.84	12.64	38.26	21.40	82.93	1.0	
1.50-1.60	145.	4.61	91.96	27.20	1.75	10.38	11.29	3.58	8.04	44.60	27.20	89.66	1.0	
1.60 SINK	253.	8.04	100.00	44.60	3.58	13.96	13.96	0.00	0.00	0.0	44.60	95.98	1.0	

FOR OPTIMUM RECOVERIES

TABLE 2

FJR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAF	RECOVERY AND ASH CALCULATIONS						AP
		A	R	FR	FAR	FRAI	FRI	
0.1159	0.0116	4.0	28.3	0.2491	0.0100	0.0216	.365	5.9
0.1159	0.0116	6.0	47.8	0.4214	0.0253	0.0369	.537	6.9
0.1159	0.0116	8.0	68.1	0.6008	0.0481	0.0597	.717	8.3
0.1159	0.0116	10.0	84.4	0.7440	0.0744	0.0860	.860	10.0
0.1159	0.0116	12.0	95.1	0.8383	0.1006	0.1122	.954	11.8

COMPD NUMBER- W085

DRILL HOLE NUMBER- 1757

SEAM NUMBER- R1 47284

DATA

SIZE DISTRIBUTION

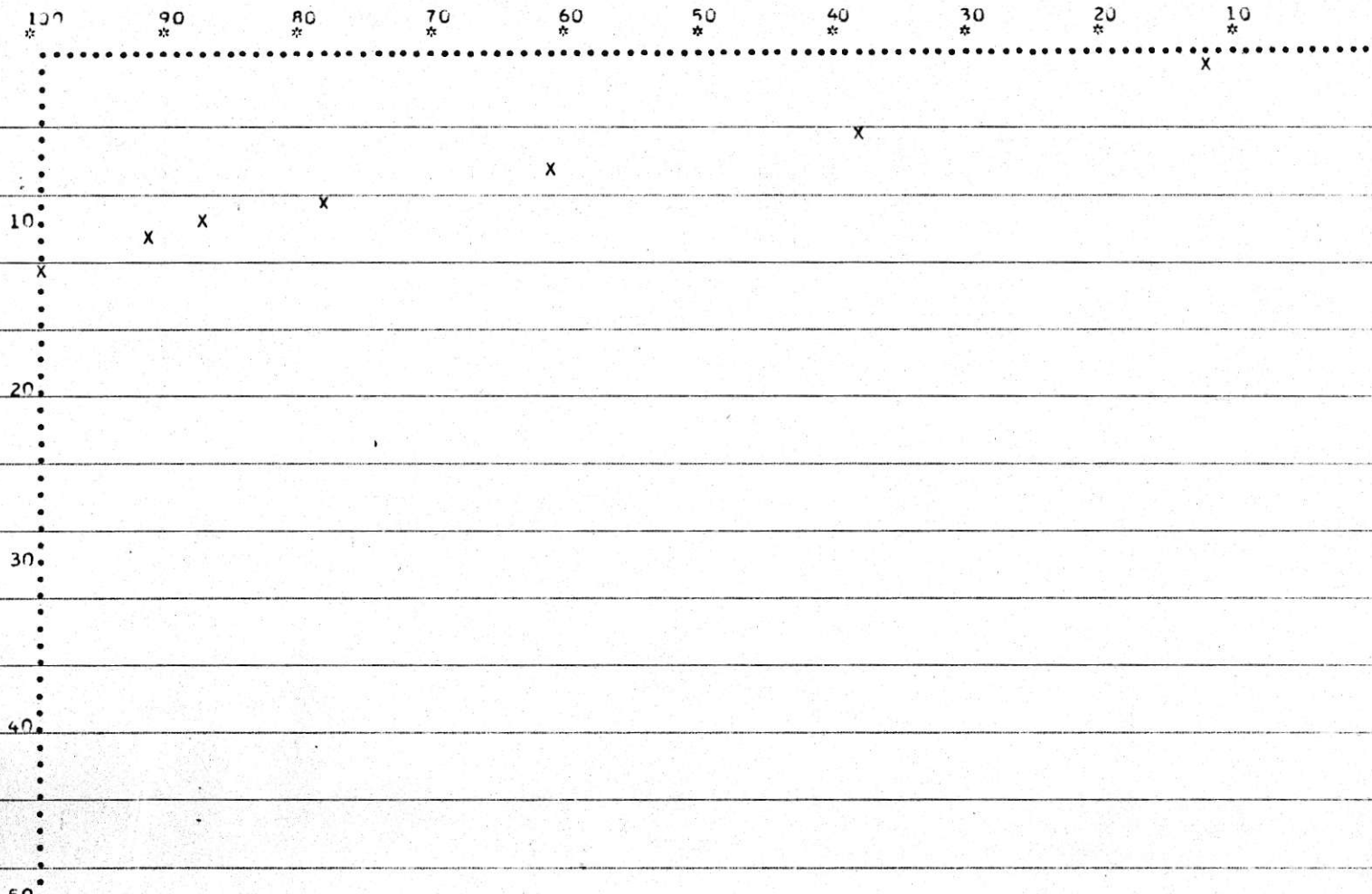
SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+2RMESH	3442.	83.2	14.0
-2RMESH	461.	11.8	9.9
FEED	3903.	100.0	13.5

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	10.00	98.16		11.59	15.66
PLUS 28	8.30	70.82	1.42	67.46	84.34
COMBINED	8.50	74.05		74.05	100.00
FLOTATION	10.00	98.16		11.59	14.80
PLUS 28	8.87	75.69	1.44	66.75	85.20
COMBINED	9.00	78.34		78.34	100.00
FLOTATION	10.00	98.16		11.59	14.08
PLUS 28	9.43	80.21	1.46	70.74	85.92
COMBINED	<u>9.50</u>	<u>82.33</u>		82.33	100.00
FLOTATION	10.00	98.16		11.59	13.48
PLUS 28	10.00	84.36	1.48	74.40	86.52
COMBINED	10.00	85.99		85.99	100.00

PRINTED IN CANADA

CUMULATIVE FLOATS WEIGHT PERCENT



ASH PERCENT

POINTS PLOTTED

X	Y
12	1
38	5
61	7
78	9
87	10
91	11
99	13

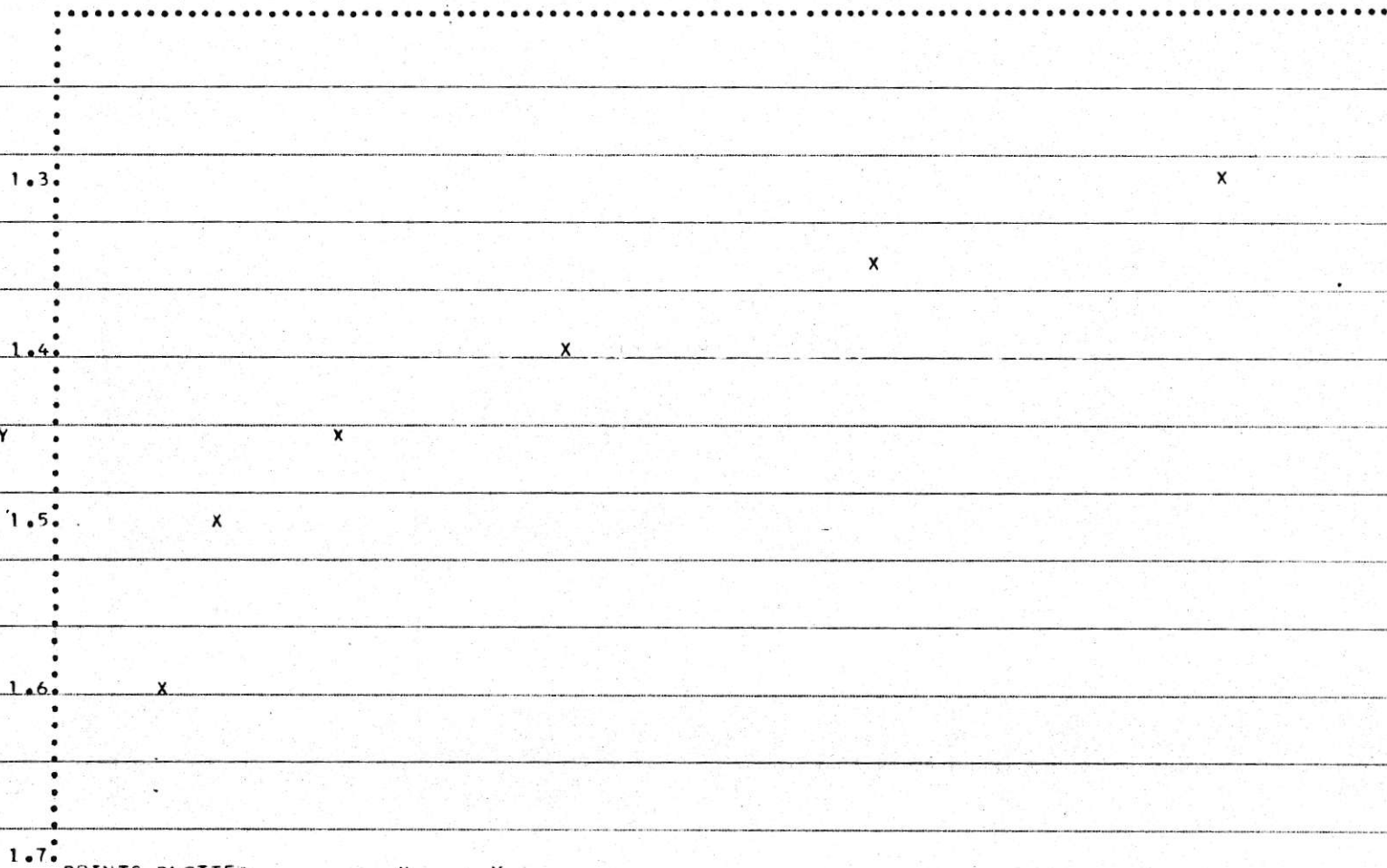
CUMULATIVE FLOATS WEIGHT PERCENT

100 90 80 70 60 50 40 30 20 10

CUMULATIVE FLOATS WEIGHT PERCENT

100 \* 90 \* 80 \* 70 \* 60 \* 50 \* 40 \* 30 \* 20 \* 10 \*

SPECIFIC GRAVITY



POINTS PLOTTED

X	Y
12	10
38	15
61	20
78	25
87	30
91	40



COMPO NUMBER- W080

DRILL HOLE NUMBER- 1757

SEAM NUMBER- 47348

FLOTATION RESULTS

PRODUCT	KEROSENE 1.05		FROTHER 0.25		DISTRIBUTION	
	WEIGHT (GMS)	WEIGHT %	ASSAY ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	279.	85.8	12.0	4.0	68.9	88.8
TAILS	46.	14.2	32.9	1.0	31.1	11.2
CALC. HEAD	325.	100.0	15.0		100.0	100.0

R7 Louisa

TABLE 1

WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

SG	WT. (GMS.)	WT. %	CUM. WT. %	FRACTION ASH %	ASH WT. OF TOT.	CUM. WT. %	CUM. FLTS. ASH	SINKS WT. %	ASH WT. %	CUM. SINKS WT. %	CUM. SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
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TABLE 1

## WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

SG	WT. (GMS.)	WT. %	CUM.WT. %	FRACTION ASH %	ASH WT. OF TOT.	CUM.WT. %	CUM.FLTS. ASH	SINKS WT. %	ASH WT. %	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	138.	8.04 ✓	8.04	4.40 ✓	0.35	0.35	4.40	27.03	91.96	29.39	4.40	4.02	5.0	
1.30-1.35	304.	17.72 ✓	25.76	6.10 ✓	1.08	1.43	5.57	25.94	74.24	34.95	6.10	16.90	1.5	
1.35-1.40	192.	11.19 ✓	36.95	10.30 ✓	1.15	2.59	7.00	24.79	63.05	39.32	11.30	31.35	1.5	
1.40-1.45	229.	13.34 ✓	50.29	14.50 ✓	1.94	4.57	8.99	22.86	49.71	45.98	14.50	43.62	1.5	
1.45-1.50	141.	8.22	58.51	17.50	1.44	5.96	10.19	21.42	41.49	51.62	17.50	54.40	1.0	
1.50-1.60	158.	9.21	67.72	24.00	2.21	8.17	12.06	19.21	32.28	59.50	24.00	63.11	1.0	
1.60 SINK	554.	32.28	100.00	59.50	19.21	27.38	27.38	0.00	0.00	0.00	59.50	83.86	0.0	

FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFREAF	RECOVERY AND ASH CALCULATIONS				FRAI	FRI	AP
		A	R	FR	FAP			
0.2229	0.0267	4.0	0.2	0.0016	0.0001	0.0268	.224	11.9
0.2229	0.0267	6.0	29.8	0.2206	0.0137	0.0400	.444	9.0
0.2229	0.0267	8.0	43.8	0.3242	0.0259	0.0527	.547	9.6
0.2229	0.0267	10.0	57.3	0.4242	0.0424	0.0692	.647	10.7
0.2229	0.0267	12.0	67.5	0.4994	0.0599	0.0867	.722	12.0
0.2229	0.0267	14.0	76.0	0.5627	0.0788	0.1055	.786	13.4
0.2229	0.0267	16.0	83.3	0.6166	0.0987	0.1254	.840	14.9
0.2229	0.0267	18.0	89.3	0.6609	0.1197	0.1457	.884	16.5
0.2229	0.0267	20.0	94.0	0.6956	0.1391	0.1659	.919	18.1

COMPO NUMBER- W080

DRILL HOLE NUMBER- 1757

SEAM NUMBER- 47348

DATA  
SIZE DISTRIBUTION

R7 lower

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MF5H	1872.	74.0	27.4
-28MF5H	639.	26.0	15.0
FEED	2461.	100.0	24.2

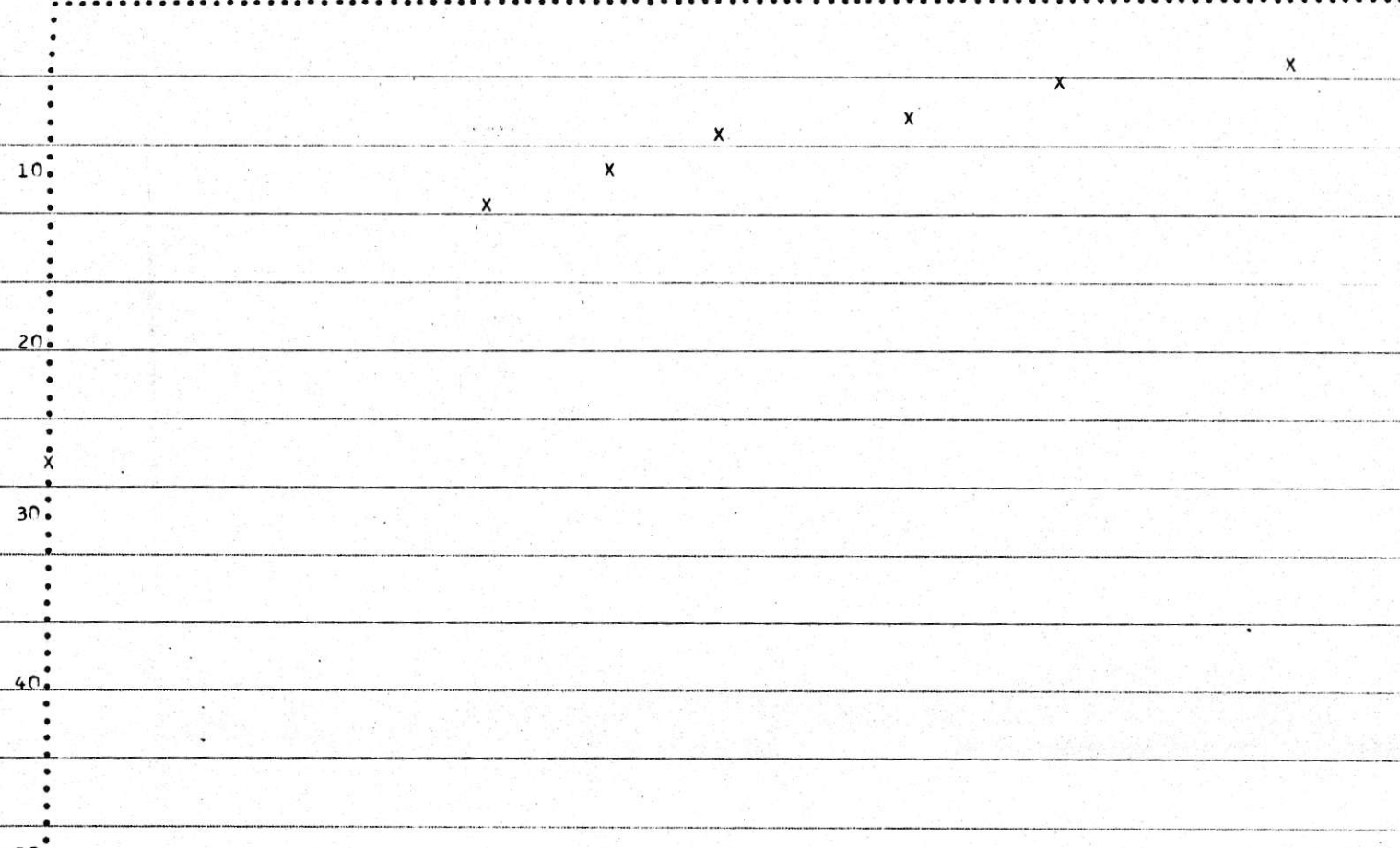
TABLE 3

AREA	% ASH	OPTIMUM	PLUS 28	% FEED	% OF
	IN PRODUCT	RECOVERY	S.G.	AS PRODUCT	PRODUCT
FLOTATION	12.00	85.85		22.29	43.67
PLUS 28	7.27	38.83	1.41	28.75	56.33
COMBINED	8.50	51.04		51.04	100.00
FLOTATION	12.00	85.85		22.29	40.94
PLUS 28	7.95	43.43	1.42	32.16	59.06
COMBINED	9.00	54.45		54.45	100.00
FLOTATION	12.00	85.85		22.29	38.59
PLUS 28	8.62	47.91	1.44	35.47	61.41
COMBINED	9.50	57.76		57.76	100.00
FLOTATION	12.00	85.85		22.29	36.45
PLUS 28	9.30	52.50	1.46	38.87	63.55
COMBINED	10.00	61.16		61.16	100.00

CUMULATIVE FLOATS WEIGHT PERCENT

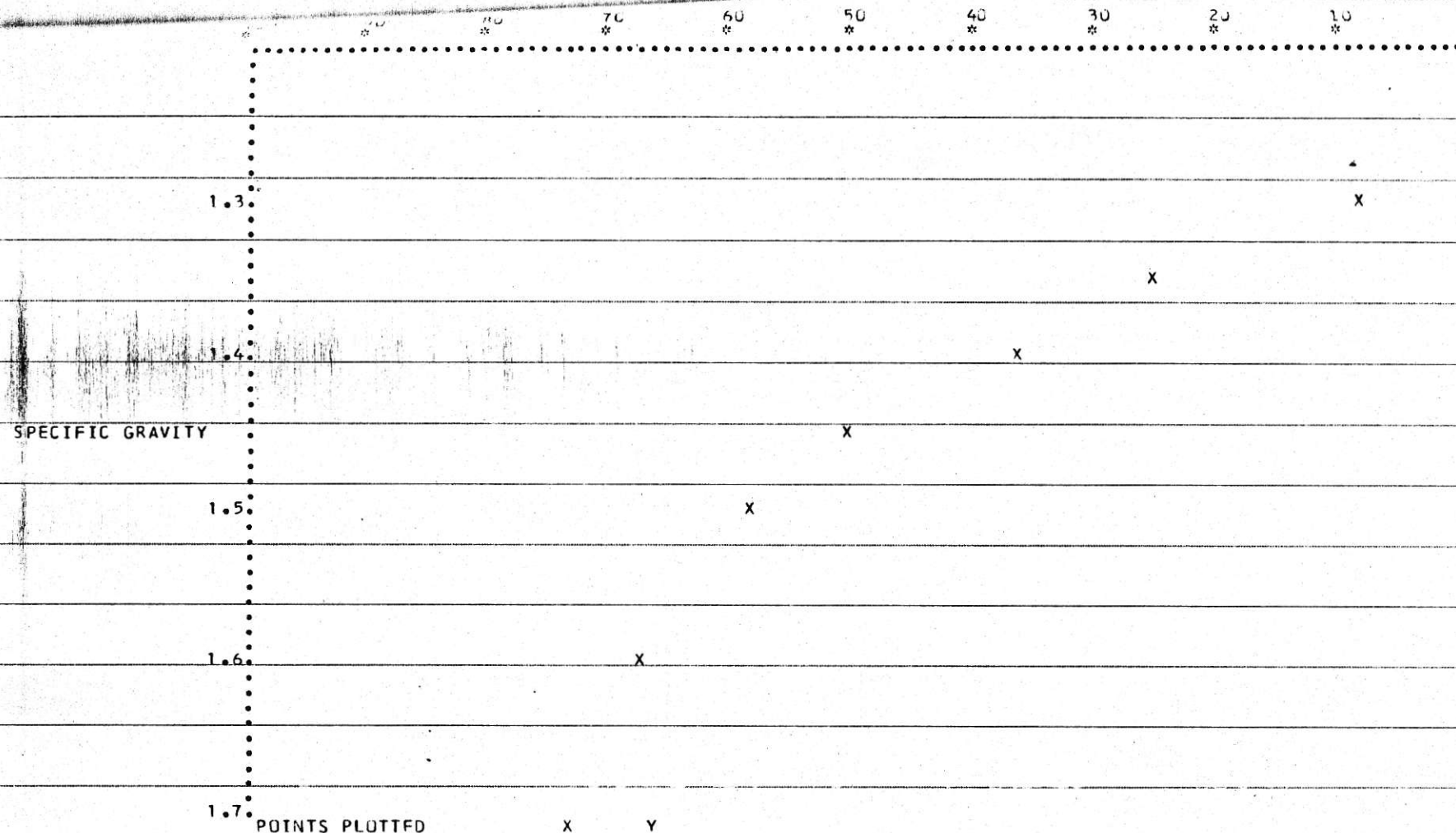
100 \* 90 \* 80 \* 70 \* 60 \* 50 \* 40 \* 30 \* 20 \* 10 \*

ASH PERCENT



POINTS PLOTTED

X	Y
25	4
36	5
50	7
58	8
67	10
99	12
	27



X	Y
25	15
36	20
50	25
58	30
67	40

COMPO NUMBER- 2081

DRILL HOLE NUMBER- 1757

FLOTATION RESULTS

KEROSENE 1.05

FROTHER 0.25

COMPO NUMBER- W081

DRILL HOLE NUMBER- 1757

FLOTATION RESULTS

PRODUCT	WEIGHT (GMS)	WEIGHT %	KEROSENE 1.05 FROTHER 0.25		DISTRIBUTION	
			ASSAY ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	306.	93.9	7.8	5.0	79.5	95.3
TAILS	20.	6.1	30.8	1.0	20.5	4.7
CALC.HEAD	326.	100.0	9.2		100.0	100.0

TABLE 1

PRINTED IN CANADA

TABLE 1

## WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

SG	WT. (GMS.)	WT. %	CUM.WT. %	FRACTION ASH %	ASH WT. OF TOT.	CUM.WT. %	CUM.FLTS. ASH	SINKS WT. %	ASH	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	308.	14.47	14.47	2.30	0.33	0.33	2.30	17.15		85.53	20.05	2.30	7.23	7.5
1.30-1.35	745.	34.99	49.46	5.80	2.73	2.36	4.78	15.12		50.54	29.92	5.80	31.96	1.0
1.35-1.40	352.	16.53	65.99	9.90	1.64	4.00	6.06	13.49		34.01	39.66	9.90	57.73	1.0
1.40-1.45	155.	7.28	73.27	14.20	1.03	5.03	6.87	12.45		26.73	45.60	14.20	69.63	1.0
1.45-1.50	93.	4.37	77.64	18.80	0.82	5.85	7.54	11.63		22.36	52.03	18.80	75.46	1.0
1.50-1.60	72.	3.38	81.02	25.80	0.87	6.73	8.30	10.76		18.98	56.70	25.80	79.33	1.0
1.60 SINK	404.	18.98	100.00	56.70	10.76	17.49	17.49	0.0		0.00	0.0	56.70	90.51	0.5



FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAF	RECOVERY AND ASH		CALCULATIONS		FRAI	FRI	AP
		A	R	FR	FAR			
0.1934	0.0151	4.0	38.9	0.3091	0.0124	0.0274	.502	5.5
0.1934	0.0151	6.0	65.3	0.5186	0.0311	0.0462	.712	6.5
0.1934	0.0151	8.0	79.8	0.6337	0.0507	0.0658	.827	8.0
0.1934	0.0151	10.0	87.6	0.6952	0.0695	0.0846	.889	9.5
0.1934	0.0151	12.0	93.5	0.7424	0.0891	0.1042	.936	11.1
0.1934	0.0151	14.0	97.5	0.7744	0.1084	0.1235	.968	12.8
0.1934	0.0151	16.0	99.7	0.7913	0.1266	0.1417	.985	14.4

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R. L. CRAIN INC.

COMPO NUMBER- W781

DRILL HOLE NUMBER- 1757

SEAM NUMBER- 15 (47349-350)

## DATA

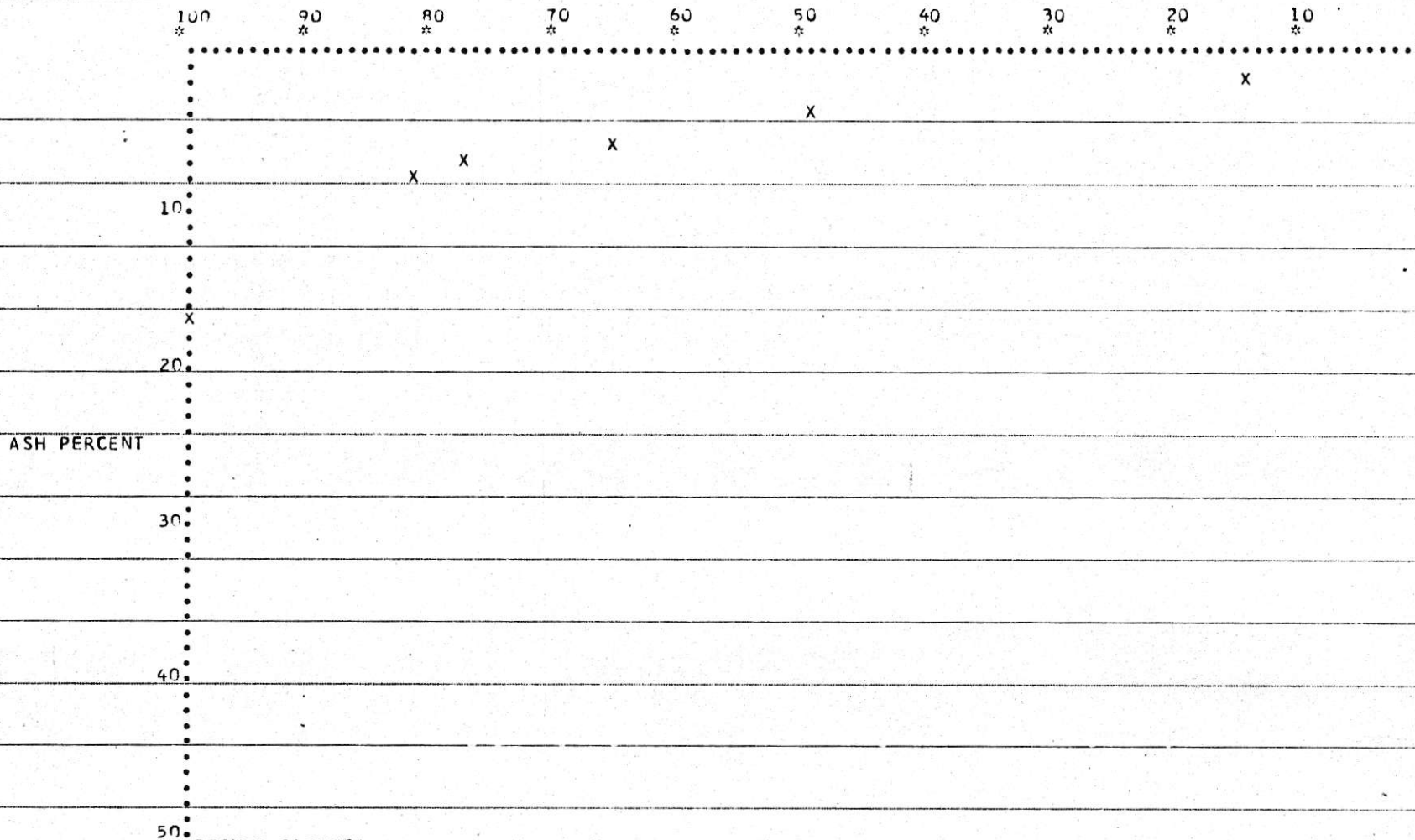
## SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+2RMESH	2147.	79.4	17.5
-2RMESH	557.	20.6	9.2
FEED	2704.	100.0	15.8

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	7.80	93.87		19.34	22.77
PLUS 28	8.68	87.60	+1.60	65.59	77.23
COMBINED	8.50	84.92		84.92	100.00
FLOTATION	7.80	93.87		19.34	22.75
PLUS 28	9.31	85.08	+1.60	67.55	77.75
COMBINED	9.00	86.89		86.89	100.00
FLOTATION	7.80	93.87		19.34	21.80
PLUS 28	9.94	87.36	+1.60	69.36	78.20
COMBINED	9.50	88.70		88.70	100.00
FLOTATION	7.80	93.87		19.34	21.40
PLUS 28	10.57	89.45	+1.60	71.02	78.60
COMBINED	10.00	90.36		90.36	100.00

CUMULATIVE FLOATS WEIGHT PERCENT



POINTS PLOTTED

X	Y
14	2
49	4
65	6
73	6
77	7
81	8
99	17

CUMULATIVE FLATS WEIGHT PERCENT

100 \* 90 \* 80 \* 70 \* 60 \* 50 \* 40 \* 30 \* 20 \* 10 \*

1.3

X

X

1.4

X

SPECIFIC GRAVITY

X

1.5

X

1.6

X

1.7

POINTS PLOTTED

X	Y
14	10
49	15
65	20
73	25
77	30
81	40

COMPO NUMBER- W791

DRILL HOLE NUMBER- 1758

SEAM NUMBER- / 47215-216

## FLOTATION RESULTS

R4a

KEROSENE 0.75 FROTHER 0.15

PRODUCT	WEIGHT (GMS)	WEIGHT %	ASSAY		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	278.	84.5	7.3	1.0	65.8	86.3
TAILS	51.	15.5	19.8	0.5	34.2	13.7
CALC. HEAD	329.	100.0	9.0		100.0	100.0

KEROSENE 0.97 FROTHER 0.20

PRODUCT	WEIGHT (GMS)	WEIGHT %	ASSAY		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	296.	90.8	7.8	1.0	74.4	92.5
TAILS	30.	9.2	26.5	0.5	25.6	7.5
CALC. HEAD	326.	100.0	9.5		100.0	100.0

KEROSENE 1.05 FROTHER 0.25

PRODUCT	WEIGHT (GMS)	WEIGHT %	ASSAY		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	300.	93.2	7.4	1.0	78.4	94.6
TAILS	22.	6.8	27.8	0.5	21.6	5.4
CALC. HEAD	322.	100.0	8.8		100.0	100.0

TABLE 1

WASHABILITY CURVE CALCULATIONS FOR (+284F5H) FRACTION

TABLE 1

## WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

SG	WT. (GMS.)	WT. %	CUM. WT. %	FRACTION ASH %	ASH WT. OF TOT.	CUM. WT. %	CUM. FLTS. ASH	SINKS WT. %	ASH	CUM. SINKS WT. %	CUM. SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	311.	17.79	17.79	1.80	0.19	0.19	1.80	18.49		89.21	20.73	1.80	5.40	3.5
1.30-1.35	879.	30.50	41.29	4.60	1.40	1.60	3.87	17.09		58.71	29.10	4.60	26.04	1.0
1.35-1.40	800.	27.76	69.05	8.40	2.33	3.93	5.69	14.75		30.95	47.67	8.40	55.17	0.5
1.40-1.45	217.	7.53	76.58	13.70	1.03	4.96	6.48	13.72		23.42	58.59	13.70	72.81	0.5
1.45-1.50	71.	2.46	79.04	18.40	0.45	5.41	6.85	13.27		20.96	63.31	18.40	77.81	0.5
1.50-1.60	50.	1.73	80.78	25.80	0.45	5.86	7.26	12.82		19.22	66.70	25.80	79.91	0.5
1.60 SINK	554.	19.22	100.00	66.70	12.82	18.68	18.68	0.0		0.00	0.0	66.70	90.39	0.0

FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAF	RECOVERY AND ASH CALCULATIONS		FR	FAR	FRAI	FRI	AP
		A	R					
0.2390	0.0177	4.0	43.5	0.3236	0.0129	0.0306	.563	5.4
0.2390	0.0177	6.0	72.4	0.5384	0.0323	0.0500	.777	6.4
0.2390	0.0177	8.0	83.8	0.6227	0.0498	0.0675	.862	7.8
0.2390	0.0177	10.0	90.6	0.6735	0.0673	0.0850	.913	9.3
0.2390	0.0177	12.0	95.7	0.7113	0.0854	0.1030	.950	10.8
0.2390	0.0177	14.0	99.0	0.7361	0.1030	0.1207	.975	12.4
0.2390	0.0177	16.0	****	0.7479	0.1197	0.1374	.987	13.9
0.2390	0.0177	18.0	****	0.7468	0.1344	0.1521	.986	15.4

COMPO NUM<sub>a</sub>FR- W091

DRILL HOLE NUMBER- 1758

SEAM NUMBER- R4W47215-216

DATA  
SIZE DISTRIBUTION

COMPO NUMBER- W091

DRILL HOLE NUMBER- 1758

SEAM NUMBER- R4W47215-216

## DATA

## SIZE DISTRIBUTION

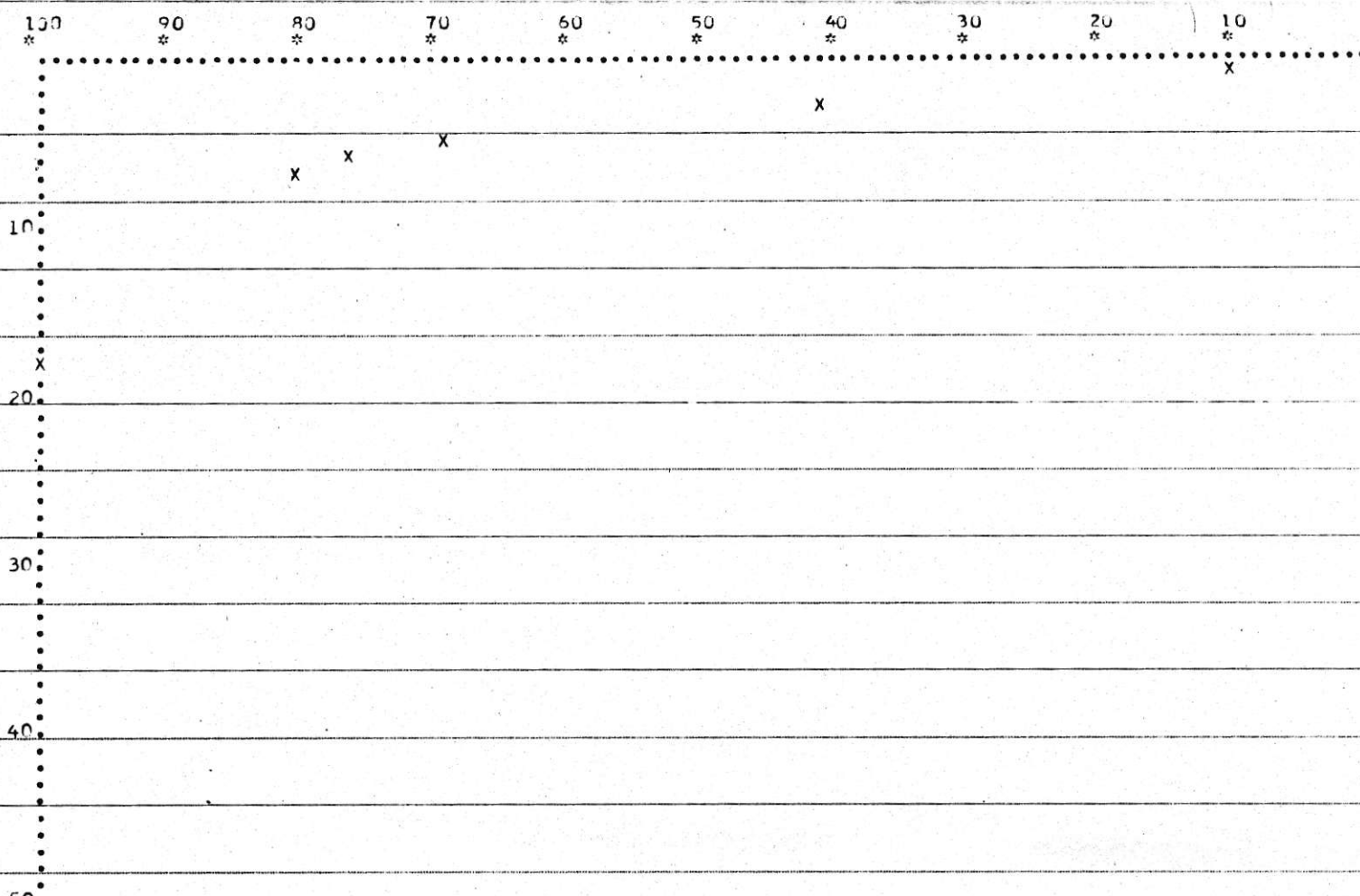
SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+2RMFSH	2973.	74.3	18.7
-2RMFSH	1026.	25.7	8.8
FEED	3999.	100.0	16.1

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	7.40	93.17		23.90	26.99
PLUS 28	8.88	86.98	+1.60	64.66	73.01
COMBINED	8.50	88.57		88.57	100.00
FLOTATION	7.40	93.17		23.90	26.49
PLUS 28	9.55	89.21	+1.60	66.32	73.51
COMBINED	9.00	90.23		90.23	100.00
FLOTATION	7.40	93.17		23.90	26.06
PLUS 28	10.22	91.25	+1.60	67.84	73.94
COMBINED	9.50	91.74		91.74	100.00
FLOTATION	7.40	93.17		23.90	25.67
PLUS 28	10.90	93.08	+1.60	69.20	74.33
COMBINED	10.00	93.11		93.11	100.00



CUMULATIVE FLOATS WEIGHT PERCENT



ASH PERCENT

POINTS PLOTTED

X	Y
10	1
41	3
69	5
76	6
79	6
80	7
99	18

CUMULATIVE FLOATS WEIGHT PERCENT

CUMULATIVE FLOATS WEIGHT PERCENT

100 \* 90 \* 80 \* 70 \* 60 \* 50 \* 40 \* 30 \* 20 \* 10 \*

1.3  
1.4  
1.5  
1.6  
1.7

SPECIFIC GRAVITY

POINTS PLOTTED

X	Y
10	10
41	15
69	20
76	25
79	30
80	40

X

X

X

X

X

X

COMPO NUMBER- W100

DRILL HOLE NUMBER- 1758

SEAM NUMBER- E1 47181

## FLOTATION RESULTS

KEROSENE 0.97 FROTHER 7.20

PRODUCT	WEIGHT (GMS)	WEIGHT %	ASSAY		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	313.	97.2	10.7	6.5	89.0	98.3
TAILS	9.	2.8	46.0	1.0	11.0	1.7
CALC. HEAD	322.	100.0	11.7		100.0	100.0

TABLE 1

## WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

SG	WT. (GMS.)	WT. %	CUM.WT. %	FRACTION ASH %	ASH WT. OF TOT.	CUM.WT. %	CUM.FLTS. ASH	SINKS WT. %	ASH	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	275.	8.54	8.54	2.40	0.20	0.20	2.40	18.78		91.46	20.53	2.40	4.27	7.5
.30-1.35	447.	13.87	22.41	6.50	0.90	1.11	4.94	17.88		77.59	23.04	6.50	15.47	7.0
.35-1.40	581.	18.03	40.44	11.10	2.00	3.11	7.69	15.88		59.56	26.66	11.10	31.42	6.0
.40-1.45	588.	18.25	58.69	15.50	2.83	5.94	10.12	13.05		41.31	31.59	15.50	49.57	1.5
.45-1.50	506.	15.70	74.39	19.70	3.09	9.03	12.14	9.96		25.61	38.88	19.70	66.54	1.0
.50-1.60	322.	9.99	84.39	27.30	2.73	11.76	13.93	7.23		15.61	46.30	27.30	79.39	1.0
.60 SINK	503.	15.61	100.00	46.30	7.23	18.99	18.99	0.0		0.00	0.0	46.30	92.19	1.0

FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFFAF	RECOVERY AND ASH CALCULATIONS				FRAI	FRI	AP
		A	R	FR	FAR			
0.1266	0.0135	4.0	17.0	0.1476	0.0059	0.0195	.274	7.1
0.1266	0.0135	6.0	29.0	0.2525	0.0151	0.0287	.379	7.6
0.1266	0.0135	8.0	42.7	0.3716	0.0297	0.0433	.498	8.7
0.1266	0.0135	10.0	57.8	0.5026	0.0503	0.0638	.629	10.1
0.1266	0.0135	12.0	73.4	0.6382	0.0766	0.0901	.765	11.8
0.1266	0.0135	14.0	84.7	0.7367	0.1031	0.1167	.863	13.5
0.1266	0.0135	16.0	93.0	0.8089	0.1294	0.1430	.936	15.3
0.1266	0.0135	18.0	98.4	0.8558	0.1540	0.1676	.982	17.1

COMPO NUMBER- W100

DRILL HOLE NUMBER- 1758

SEAM NUMBER- R1 47181

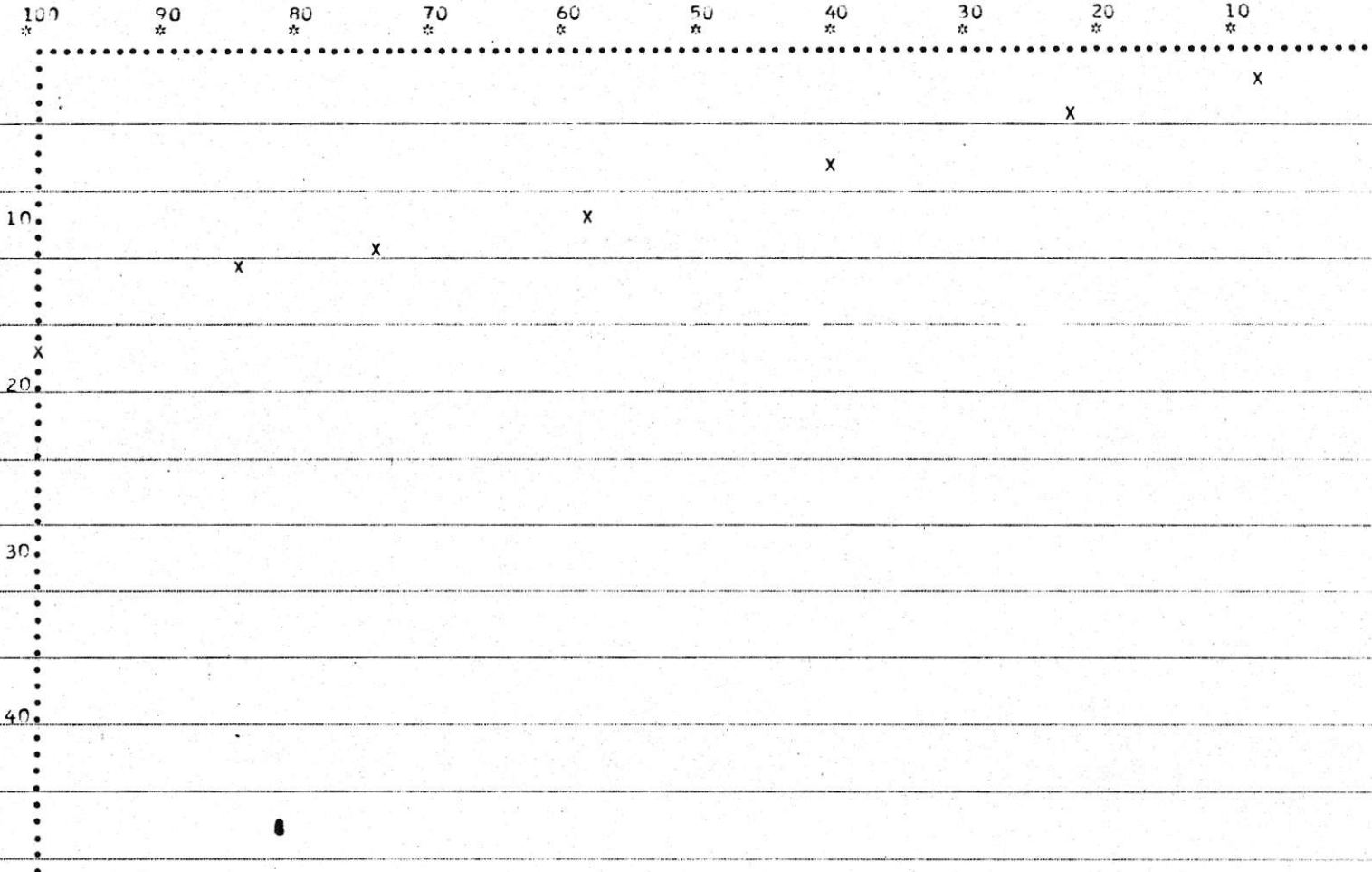
DATA  
SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MESH	3338.	87.0	19.0
-28MESH	570.	13.0	11.7
FEED	3838.	100.0	18.0

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	10.70	97.20		12.66	24.88
PLUS 28	8.17	43.97	1.41	38.24	75.12
COMBINED	8.50	50.91		50.91	100.00
FLOTATION	10.70	97.20		12.66	23.19
PLUS 28	8.75	48.73	1.42	41.95	76.81
COMBINED	9.00	54.61		54.61	100.00
FLOTATION	10.70	97.20		12.66	21.69
PLUS 28	9.32	52.56	1.43	45.72	78.31
COMBINED	9.50	58.38		58.38	100.00
FLOTATION	10.70	97.20		12.66	20.35
PLUS 28	9.90	56.98	1.45	49.56	79.65
COMBINED	10.00	62.72		62.72	100.00

CUMULATIVE FLOATS WEIGHT PERCENT



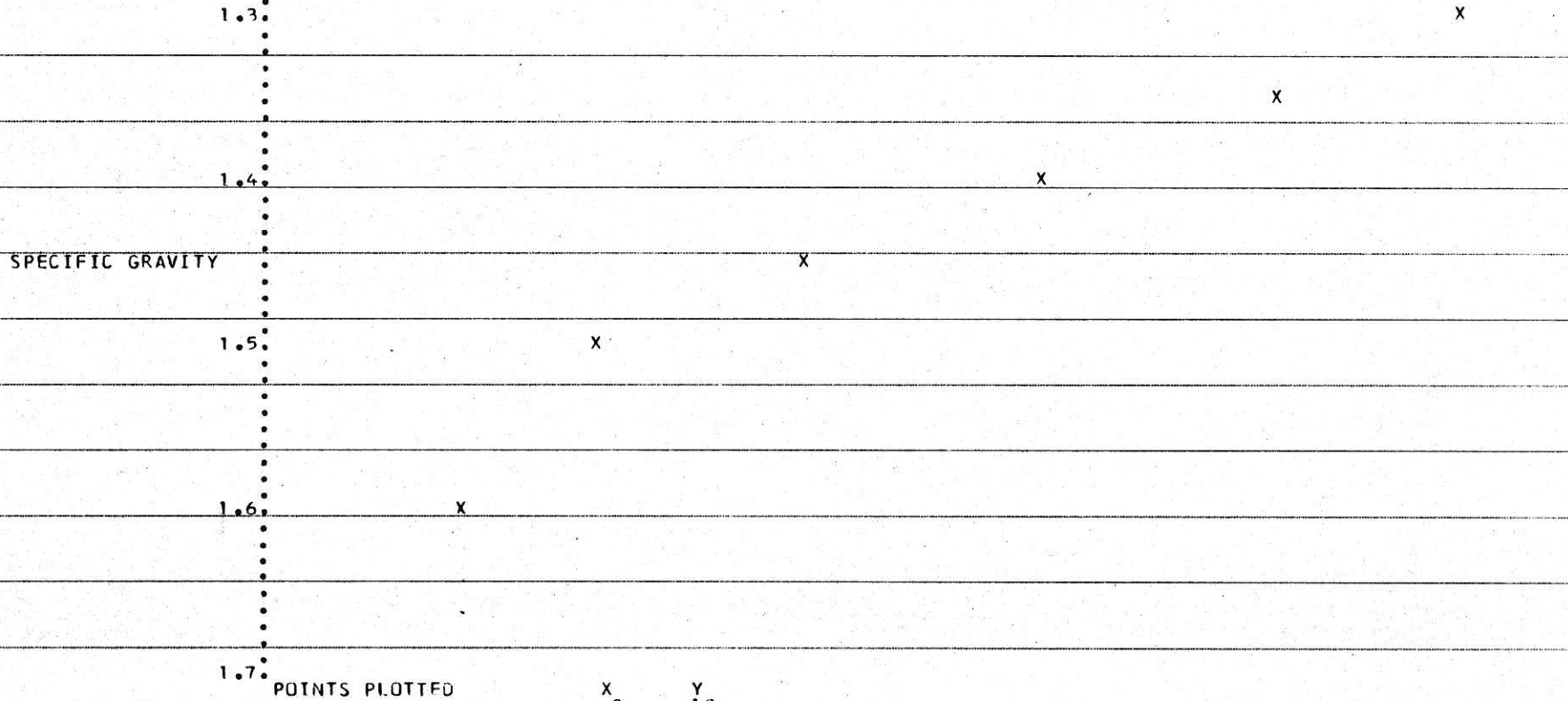
ASH PERCENT

POINTS PLOTTED

X	Y
8	2
22	4
40	7
58	10
74	12
84	13
99	18

CUMULATIVE FLOATS WEIGHT PERCENT

100 \* 90 \* 80 \* 70 \* 60 \* 50 \* 40 \* 30 \* 20 \* 10 \*



SPECIFIC GRAVITY

POINTS PLOTTED

X	Y
8	10
22	15
40	20
58	25
74	30
84	40

COMPO NUMBER- 4722

DRILL HOLE NUMBER- 1758

SEAM NUMBER- 47217647220

FLotation RESULTS

KERISENE 1.15 FROTH P. 0.35

PL 87

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COMPO NUMBER- W072

DRILL HOLE NUMBER- 1758

SEAM NUMBER- 47217, 47220

FLOTATION RESULTS

Pt R7

PRODUCT	WEIGHT (GMS)	WEIGHT %	ASSAY		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	286.	87.7	8.0	7.5	54.2	92.7
TAILS	40.	12.3	48.4	1.0	45.8	7.3
CALC. HEAD	326.	100.0	13.0		100.0	100.0

TABLE 1

## WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

SG	WT. (GMS.)	WT. %	CUM.WT. %	FRACTION ASH %	ASH WT. OF TOT.	CUM.WT. %	CUM.FLTS. ASH	SINKS WT. %	ASH WT. %	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	648.	53.47	53.47	2.80	1.50	1.50	2.80	23.12	46.53	49.68	2.80	26.73	7.5	
1.30-1.35	181.	14.93	68.40	6.10	0.91	2.41	3.52	22.21	31.60	70.29	6.10	60.93	4.5	
1.35-1.40	45.	3.71	72.11	9.60	0.36	2.76	3.83	21.85	27.89	78.35	9.60	70.26	1.0	
1.40-1.45	20.	1.65	73.76	13.20	0.22	2.98	4.04	21.63	26.24	82.45	13.20	72.94	1.0	
1.45-1.50	10.	0.83	74.59	19.90	0.16	3.15	4.22	21.47	25.41	84.48	19.90	74.17	1.0	
1.50-1.60	9.	0.74	75.33	24.10	0.18	3.33	4.41	21.29	24.67	86.30	24.10	74.96	1.0	
1.60 SINK	299.	24.67	100.00	86.30	21.29	24.62	24.62	0.0	0.00	0.0	86.30	87.66	0.0	

FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAF	RECOVERY AND ASH CALCULATIONS				FRAT	FRI	AP
		A	R	FR	FAR			
0.2144	0.0172	4.0	73.5	0.5553	0.0222	0.0394	.770	5.1
0.2144	0.0172	6.0	81.7	0.6119	0.0367	0.0539	.826	6.5
0.2144	0.0172	8.0	87.2	0.6590	0.0527	0.0699	.873	8.0
0.2144	0.0172	10.0	92.4	0.6984	0.0698	0.0870	.913	9.5
0.2144	0.0172	12.0	96.6	0.7302	0.0876	0.1048	.945	11.1
0.2144	0.0172	14.0	99.8	0.7544	0.1056	0.1228	.969	12.7
0.2144	0.0172	16.0	***	0.7711	0.1234	0.1405	.985	14.3
0.2144	0.0172	18.0	***	0.7801	0.1404	0.1576	.994	15.8
0.2144	0.0172	20.0	***	0.7814	0.1563	0.1734	.996	17.4

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COMPO NUMBER- W792

DRILL HOLE NUMBER- 1758

SEAM NUMBER- P1 R7 1741220

DATA  
SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MESH	1246.	75.6	24.6
-28MESH	473.	24.4	13.0
FEED	1649.	100.0	<u>21.8</u>

TABLE 3

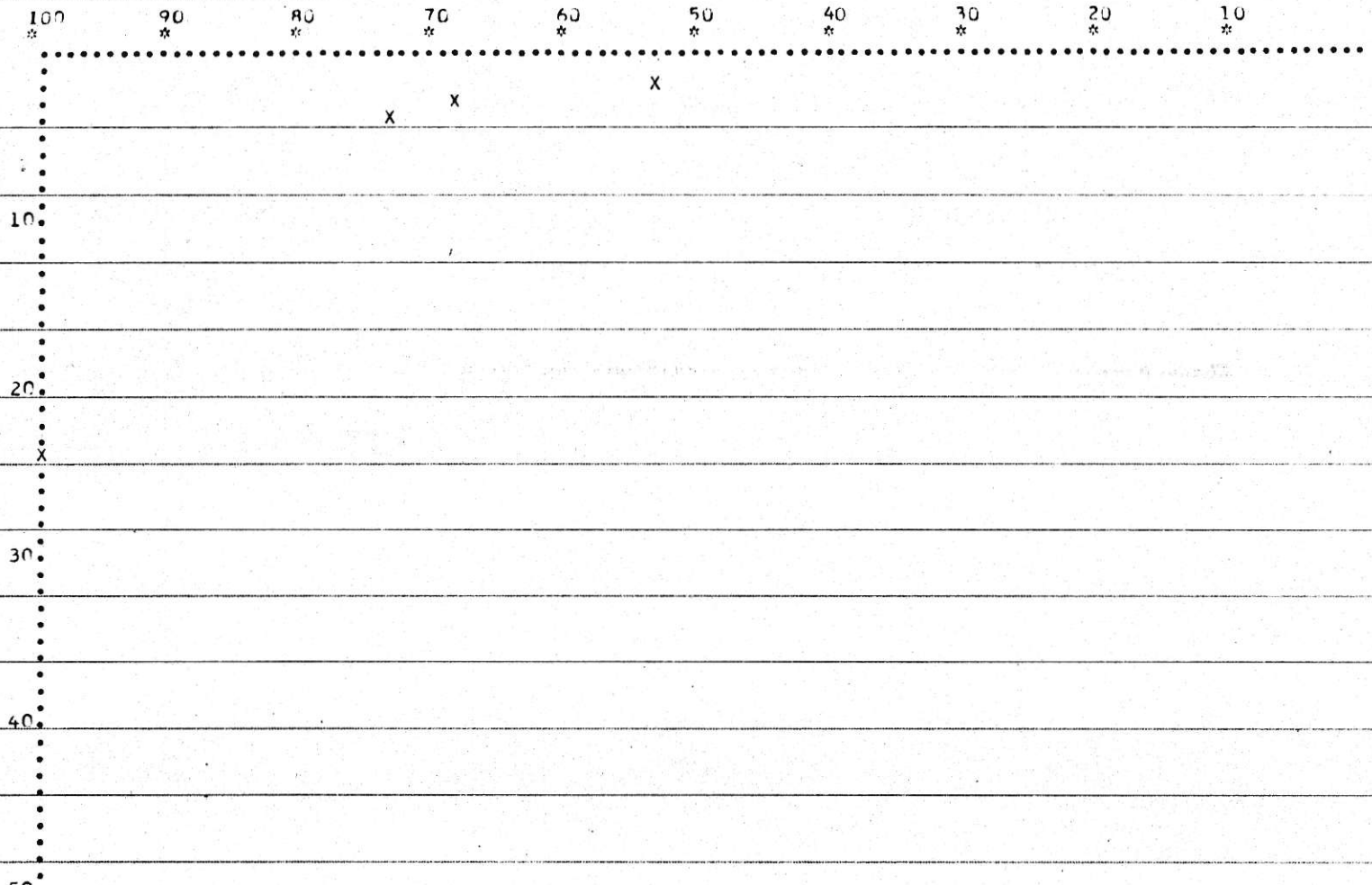
AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	8.00	87.73		21.44	24.16
PLUS 28	8.66	89.05	+1.60	67.29	75.84
COMBINED	8.50	88.73		88.73	100.00
FLOTATION	8.00	87.73		21.44	23.81
PLUS 28	9.32	90.78	+1.60	68.59	76.19
COMBINED	9.00	90.03		90.03	100.00
FLOTATION	8.00	87.73		21.44	23.50
PLUS 28	9.99	92.39	+1.60	69.81	76.50
COMBINED	<u>9.50</u>	<u>91.25</u>		91.25	100.00
FLOTATION	8.00	87.73		21.44	23.21
PLUS 28	10.65	93.90	+1.60	70.95	76.79
COMBINED	10.00	92.39		92.39	100.00

CUMULATIVE FLOATS WEIGHT PERCENT

100 \*      90 \*      80 \*      70 \*      60 \*      50 \*      40 \*      30 \*      20 \*      10 \*

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CUMULATIVE FLOATS WEIGHT PERCENT



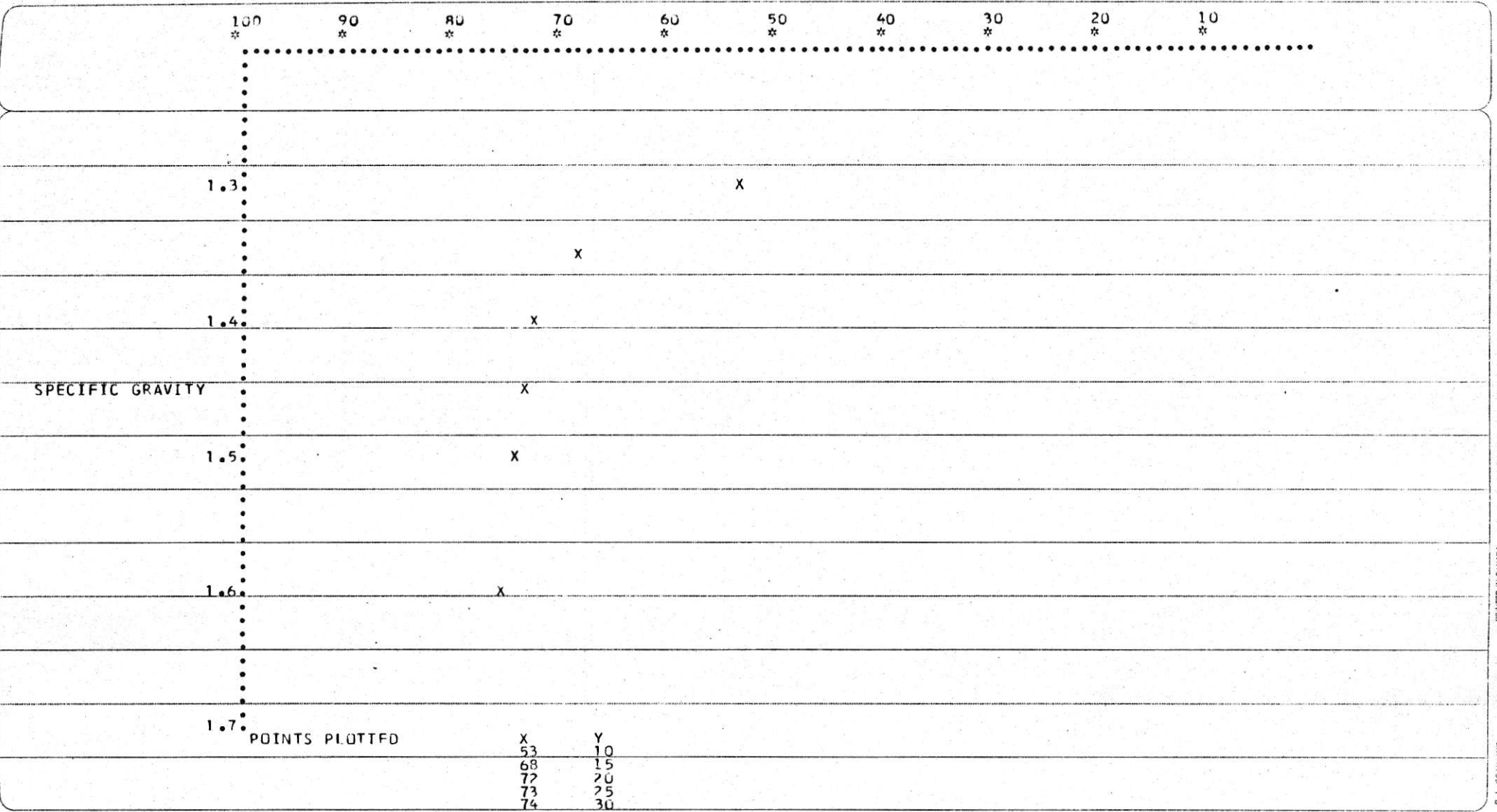
ASH PERCENT

POINTS PLOTTED

X	Y
53	2
68	3
72	3
73	4
74	4
75	4
99	24

CUMULATIVE FLOATS WEIGHT PERCENT

CUMULATIVE FLUATS WEIGHT PERCENT



1.7 POINTS PLOTTED

X	Y
53	10
68	15
72	20
73	25
74	30
75	40

COMPO NUMBER- W098

DRILL HOLE NUMBER- 1758

SEAM NUMBER- *R4L* 47177-178

FLOTATION RESULTS

PRODUCT	KEROSENE 0.97		FROTHER 0.20		DISTRIBUTION	
	WEIGHT (GMS)	WEIGHT %	ASSAY ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	313.	96.9	8.0	7.0	78.7	98.9
TAILS	10.	3.1	67.6	0.0	21.3	1.1
CALC. HEAD	323.	100.0	9.8		100.0	100.0

TABLE 1

WASHABILITY CURVE CALCULATIONS FOR (+28MFSH) FRACTION

SG	WT. (GMS.)	WT. %	CUM. WT. %	FRACTION ASH %	ASH WT. OF TOT.	CUM. WT. %	CUM. FLTS. ASH	SINKS WT. %	ASH	CUM. SINKS WT. %	CUM. SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.20	710	16.32	16.32	2.10	0.34	0.34	2.10	18.89		83.68	22.58	2.10	8.16	7.5

TABLE 1

## WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

SG	WT. (GMS.)	WT. %	CUM.WT. %	FRACTION ASH %	ASH WT. OF TOT.	CUM.WT. %	CUM.FLTS. ASH	SINKS WT. %	ASH	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	710.	16.32	16.32	2.10	0.34	0.34	2.10	18.89	83.68	22.58	2.10	8.16	7.5	
.30-1.35	860.	19.77	36.09	5.60	1.11	1.45	4.02	17.79	63.91	27.83	5.60	26.21	3.0	
.35-1.40	766.	17.61	53.70	10.00	1.76	3.21	5.98	16.03	46.30	34.62	10.00	44.90	1.0	
.40-1.45	569.	13.08	66.78	14.30	1.87	5.08	7.61	14.16	33.22	42.62	14.30	60.24	1.0	
.45-1.50	400.	9.20	75.98	18.60	1.71	6.79	8.94	12.45	24.02	51.81	18.60	71.38	1.0	
.50-1.60	282.	6.48	82.46	26.40	1.71	8.50	10.31	10.73	17.54	61.20	26.40	79.22	1.0	
.60 SINK	763.	17.54	100.00	61.20	10.73	19.24	19.24	0.00	0.00	0.0	61.20	91.23	0.0	

FOR OPTIMUM RECOVERIES

TABLE 2

RECOVERY AND ASH CALCULATIONS



FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAF	RECOVERY		AND ASH CALCULATIONS		FRAT	FRI	AP
		A	R	FR	FAR			
0.1067	0.0085	4.0	35.9	0.3197	0.0128	0.0213	.426	5.0
0.1067	0.0085	6.0	53.9	0.4796	0.0288	0.0373	.586	6.4
0.1067	0.0085	8.0	69.7	0.6204	0.0496	0.0582	.727	8.0
0.1067	0.0085	10.0	81.2	0.7223	0.0722	0.0808	.829	9.7
0.1067	0.0085	12.0	89.0	0.7924	0.0951	0.1036	.899	11.5
0.1067	0.0085	14.0	94.9	0.8443	0.1182	0.1267	.951	13.3
0.1067	0.0085	16.0	98.6	0.8772	0.1403	0.1489	.984	15.1
0.1067	0.0085	18.0	****	0.8909	0.1604	0.1689	.998	16.9

COMPO NUMBER- w298

DRILL HOLE NUMBER- 1758

SEAM NUMBER- *R7* 47177-178

DATA  
SIZE DISTRIBUTION

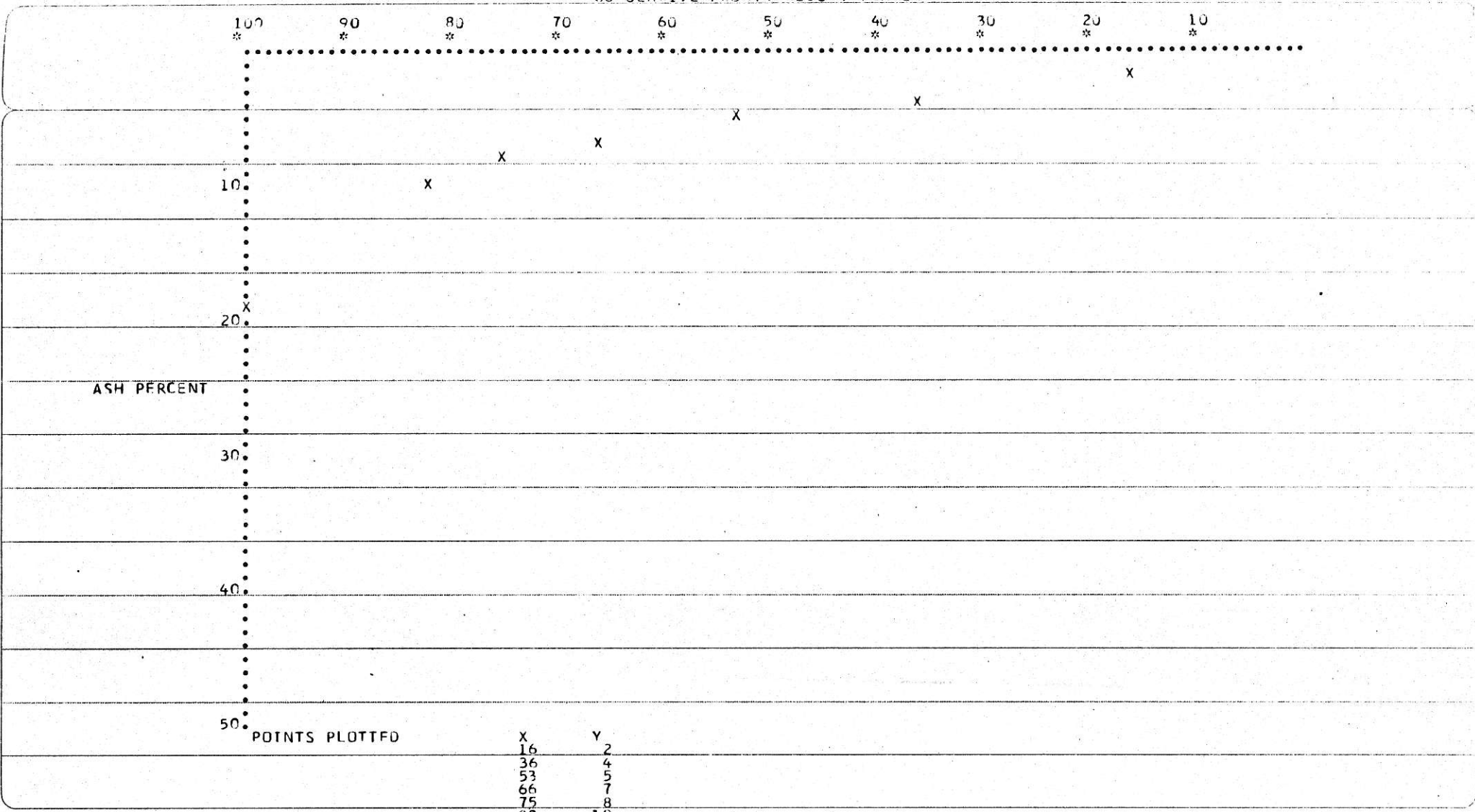
SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MESH	4446.	89.0	19.2
-28MESH	550.	11.0	9.8
FEED	4996.	100.0	18.2

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	8.00	96.90		10.67	14.01
PLUS 28	8.56	73.60	1.48	65.49	85.99
COMBINED	8.50	76.16		76.16	100.00
FLOTATION	8.00	96.90		10.67	13.48
PLUS 28	9.12	76.97	1.51	68.50	86.52
COMBINED	9.00	79.16		79.16	100.00
FLOTATION	8.00	96.90		10.67	13.07
PLUS 28	9.69	79.76	1.55	70.98	86.93
COMBINED	9.50	81.64		81.64	100.00
FLOTATION	8.00	96.90		10.67	12.73
PLUS 28	10.25	82.20	1.59	73.15	87.27
COMBINED	10.00	83.82		83.82	100.00

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CUMULATIVE FLOATS WEIGHT PERCENT

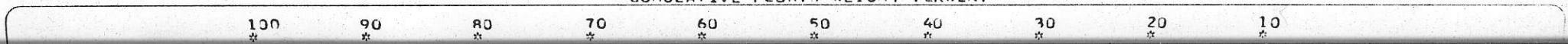


ASH PERCENT

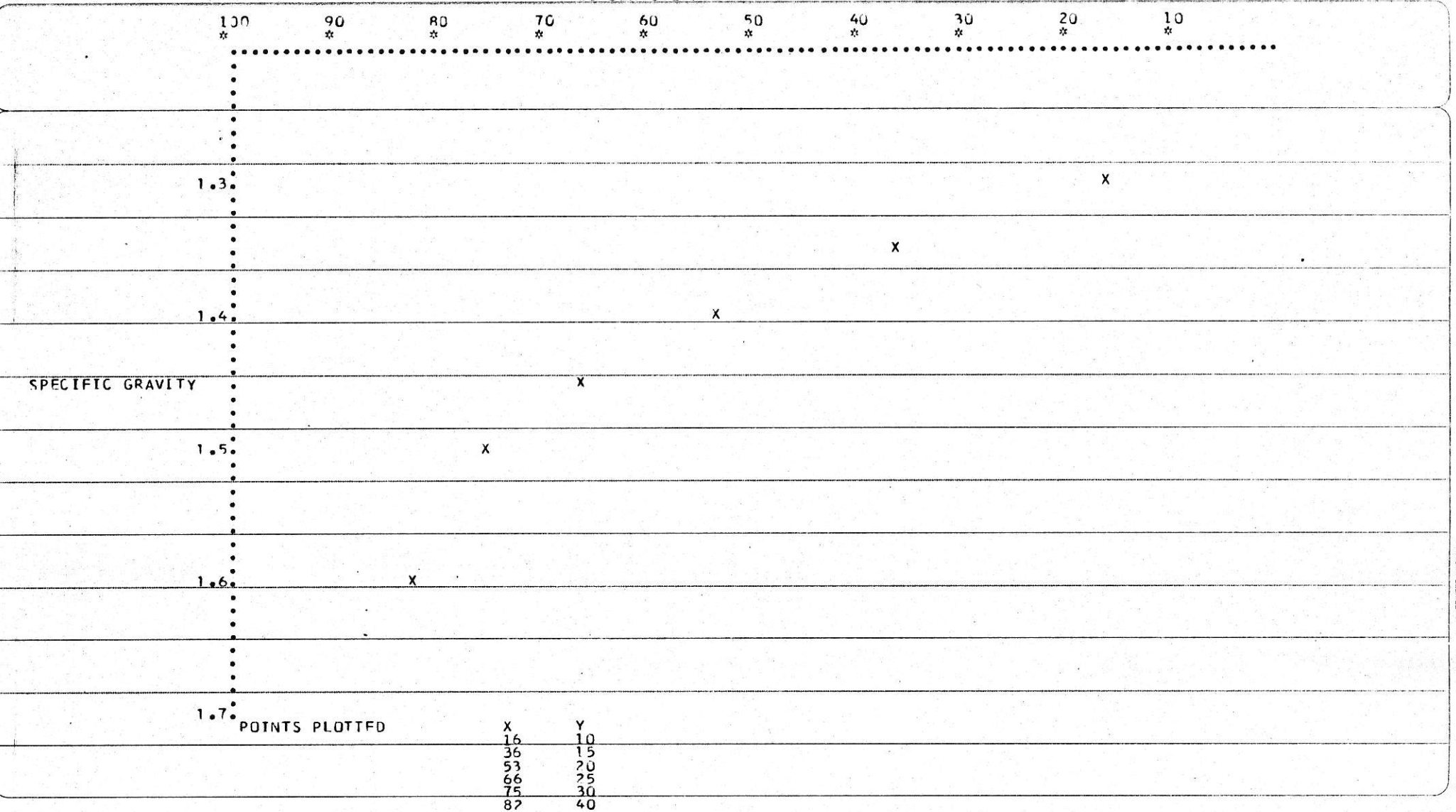
POINTS PLOTTED

X	Y
16	2
36	4
53	5
66	7
75	8
82	10
99	19

CUMULATIVE FLOATS WEIGHT PERCENT



CUMULATIVE FLOATS WEIGHT PERCENT



COMPO NUMBER- W299

DRILL HOLE NUMBER- 1758

SEAM NUMBER- R2 47179

FLOTATION RESULTS

KEROSENE 0.97

FROTHER 0.20

PRODUCT	WEIGHT (GMS)	WEIGHT %	ASSAY		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	337.	97.6	6.4	7.0	77.3	99.4
TAILS	8.	2.4	78.2	0.0	22.7	0.6
CALC. HEAD	340.	100.0	8.1		100.0	100.0

TABLE 1

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P. L. CRANE INC.

TABLE 1

## WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

SG	WT. (GMS.)	WT. %	CUM. WT. %	FRACTION ASH %	ASH WT. OF TOT.	CUM. WT. %	CUM. FLTS. ASH	SINKS WT. %	ASH WT. %	CUM. SINKS WT. %	CUM. SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	1582.	52.45	52.45	2.70	1.42	1.42	2.70	14.73	47.55	30.98	2.70	26.23	7.0	
1.30-1.35	651.	21.58	74.04	6.80	1.47	2.88	3.90	13.26	25.96	51.08	6.80	63.25	7.0	
1.35-1.40	184.	6.10	80.14	12.50	0.76	3.65	4.55	12.50	19.86	62.94	12.50	77.09	7.0	
1.40-1.45	78.	2.59	82.73	17.70	0.46	4.10	4.96	12.04	17.27	69.71	17.70	81.43	7.0	
1.45-1.50	53.	1.76	84.48	24.00	0.42	4.53	5.36	11.62	15.52	74.89	24.00	83.60	5.5	
1.50-1.60	49.	1.62	86.11	30.30	0.49	5.02	5.83	11.13	13.89	80.10	30.30	85.30	5.5	
1.60 SINK	419.	13.89	100.00	80.10	11.13	16.15	16.15	0.0	0.00	0.0	80.10	93.05	0.0	

FOR OPTIMUM RECOVERIES

TABLE 2

RECOVERY AND ASH CALCULATIONS

FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAF	RECOVERY AND ASH CALCULATIONS						
		A	R	FR	FAR	FRAI	FRI	AP
0.1402	0.0090	4.0	75.7	0.6444	0.0258	0.0347	.785	4.4
0.1402	0.0090	6.0	86.7	0.7424	0.0445	0.0535	.883	6.1
0.1402	0.0090	8.0	92.5	0.7921	0.0634	0.0723	.932	7.8
0.1402	0.0090	10.0	96.7	0.8285	0.0828	0.0918	.969	9.5
0.1402	0.0090	12.0	99.4	0.8515	0.1022	0.1111	.992	11.2
0.1402	0.0090	14.0	****	0.8611	0.1205	0.1295	****	12.9
0.1402	0.0090	16.0	****	0.8573	0.1372	0.1461	.997	14.7

COMPO NUMBER- W099

DRILL HOLE NUMBER- 1758

SEAM NUMBER- R2 47179

## DATA

## SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MESH	3091.	85.6	16.1
-28MESH	518.	14.4	8.1
FEED	3609.	100.0	15.0

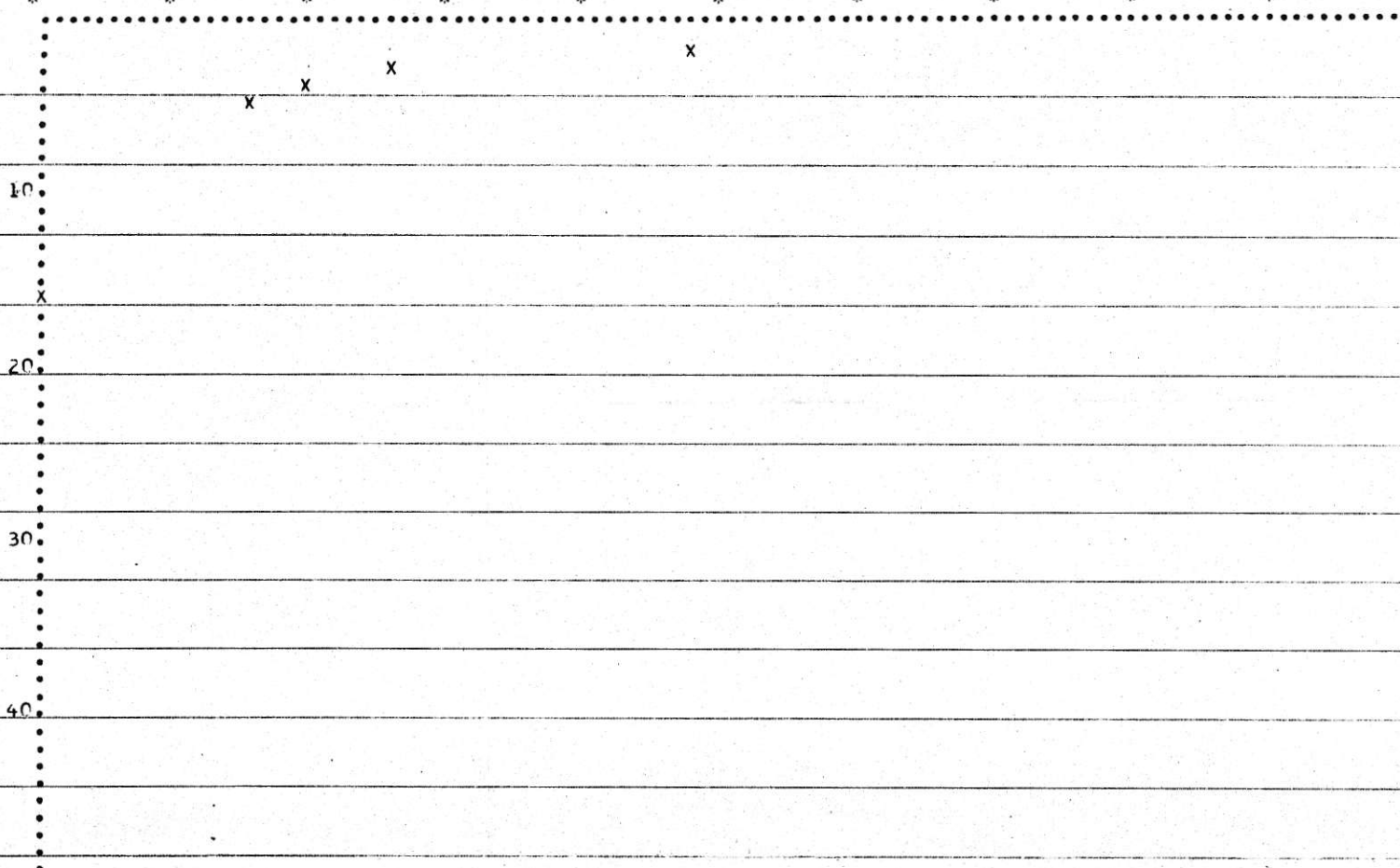
TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	6.40	97.65		14.02	14.76
PLUS 28	8.85	94.49	+1.60	80.92	85.24
COMBINED	8.50	94.94		94.94	100.00
FLOTATION	6.40	97.65		14.02	14.60
PLUS 28	9.44	95.69	+1.60	81.96	85.40
COMBINED	9.00	95.97		95.97	100.00
FLOTATION	6.40	97.65		14.02	14.46
PLUS 28	10.02	96.76	+1.60	82.88	85.54
COMBINED	<del>9.50</del>	<u>96.89</u>		96.89	100.00
FLOTATION	6.40	97.65		14.02	14.35
PLUS 28	10.60	97.70	+1.60	83.68	85.65
COMBINED	10.00	97.70		97.70	100.00



CUMULATIVE FLOATS WEIGHT PERCENT

100 \* 90 \* 80 \* 70 \* 60 \* 50 \* 40 \* 30 \* 20 \* 10 \*



ASH PERCENT

50 \* POINTS PLOTTED

X	Y
52	2
74	3
80	4
82	4
84	5
86	5
99	16

CUMULATIVE FLOATS WEIGHT PERCENT

100 \* 90 \* 80 \* 70 \* 60 \* 50 \* 40 \* 30 \* 20 \* 10 \*

CUMULATIVE FLOATS WEIGHT PERCENT

100 \* 90 \* 80 \* 70 \* 60 \* 50 \* 40 \* 30 \* 20 \* 10 \*

1.3

X

X

1.4

X

-

SPECIFIC GRAVITY

X

1.5

X

1.6

X

1.7

POINTS PLOTTED

X	Y
52	10
74	15
80	20
87	25
84	30
86	40

COMPO NUMBER- W096

DRILL HOLE NUMBER- 1758

SEAM NUMBER- 47224

FLUTATION RESULTS

*PI R5L*

PRODUCT	WEIGHT (GMS)	WEIGHT %	ASSAY		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	205.	96.7	8.7	5.5	78.8	98.8
TAILS	7.	3.3	68.6	0.0	21.2	1.2
CALC. HEAD	212.	100.0	10.7		100.0	100.0

TABLE 1

WASHABILITY CURVE CALCULATIONS FOR (+28MFSH) FRACTION

SG	WT. (GMS.)	WT. %	CUM. WT. %	FRACTION ASH %	ASH WT. OF TOT.	CUM. WT. %	CUM. FLTS. ASH	SINKS WT. %	ASH	CUM. SINKS WT. %	CUM. SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
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TABLE 1

## WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

SG	WT. (GMS.)	WT. %	CUM.WT. %	FRACTION ASH %	ASH WT. OF TOT.	CUM.WT. %	CUM.FLTS. ASH	SINKS WT. %	ASH	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	215.	8.15✓	8.16	2.60✓	0.21	0.21	2.60	25.09		91.84	27.32	2.60	4.08	7.5
1.30-1.35	575.	21.83✓	29.99	6.00✓	1.31	1.52	5.07	23.78		70.01	33.97	6.00	19.08	1.0
1.35-1.40	625.	23.73✓	53.72	9.30✓	2.21	3.73	6.94	21.58		46.28	46.62	9.30	41.86	1.0
1.40-1.45	177.	6.72✓	60.44	15.00✓	1.01	4.74	7.84	20.57		39.56	51.99	15.00	57.08	1.0
1.45-1.50	234.	8.88✓	69.32	21.60✓	1.92	6.66	9.60	18.65		30.68	60.79	21.60	64.88	1.0
1.50-1.60	119.	4.52	73.84	26.60	1.20	7.86	10.64	17.45		26.16	66.70	26.60	71.58	1.0
1.60 SINK	689.	26.16	100.00	66.70	17.45	25.30	25.30	0.0		0.00	0.0	66.70	86.92	0.0

F7- OPTIMUM RECOVERIES

TABLE 2

## FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFREAF	RECOVERY AND ASH CALCULATIONS				FRAI	FRI	AP
		A	R	FR	FAR			
0.1187	0.0103	4.0	19.2	0.1681	0.0067	0.0170	.287	5.9
0.1187	0.0103	6.0	42.2	0.3701	0.0222	0.0325	.489	6.7
0.1187	0.0103	8.0	61.4	0.5389	0.0431	0.0534	.658	8.1
0.1187	0.0103	10.0	71.1	0.6239	0.0624	0.0727	.743	9.8
0.1187	0.0103	12.0	79.2	0.6949	0.0834	0.0937	.814	11.5
0.1187	0.0103	14.0	86.0	0.7547	0.1057	0.1160	.873	13.3
0.1187	0.0103	16.0	91.5	0.8030	0.1285	0.1388	.922	15.1
0.1187	0.0103	18.0	95.7	0.8398	0.1512	0.1615	.958	16.8
0.1187	0.0103	20.0	98.6	0.8653	0.1731	0.1834	.984	18.6

COMPO NUMBER- 4096

DRILL HOLE NUMBER- 1758

SEAM NUMBER- <sup>Part</sup> RSL 47224

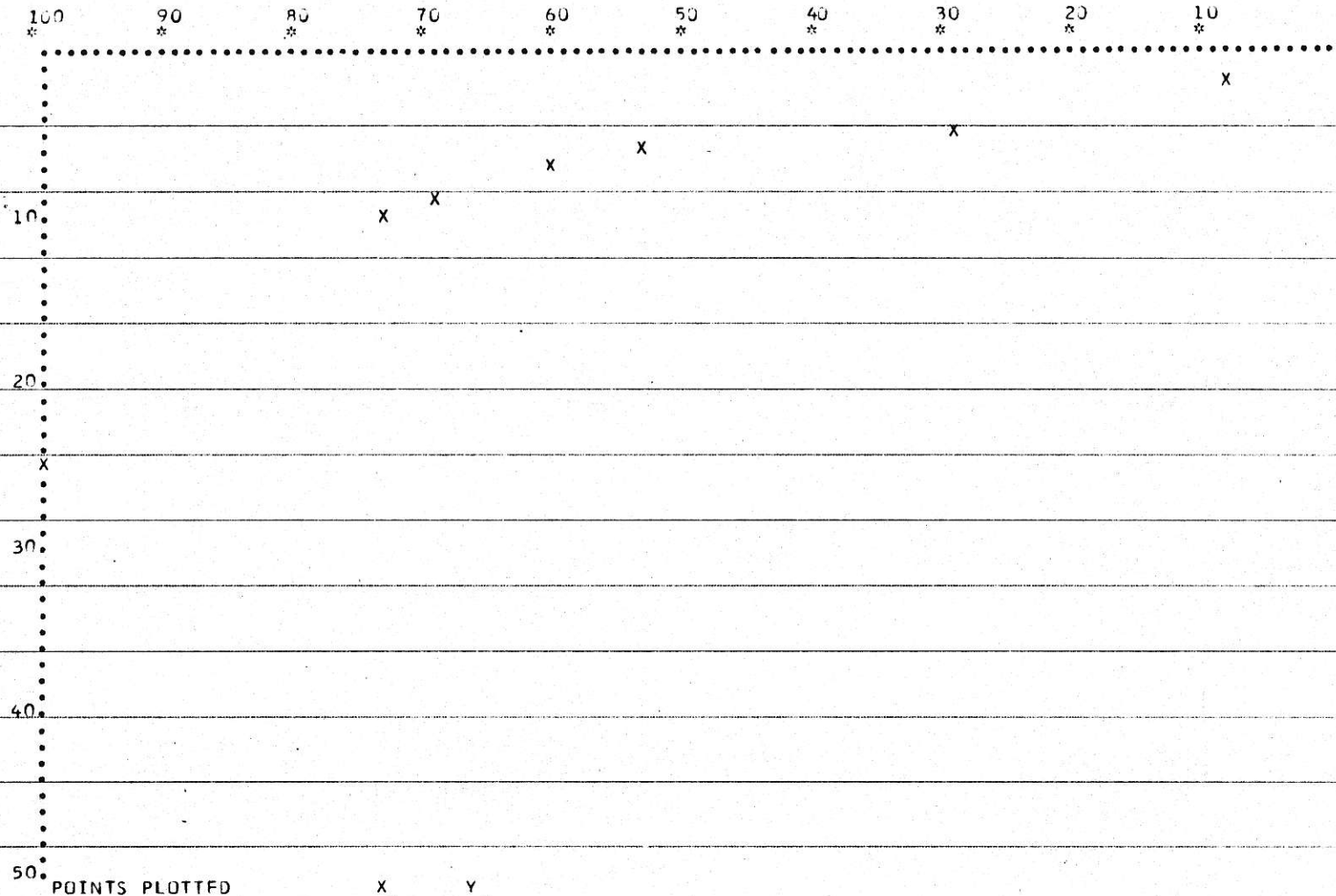
DATA  
SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MESH	2738.	87.7	25.3
-28MESH	383.	12.3	10.7
FEED	3121.	100.0	<u>23.5</u>

TABLE 3

AREA	% ASH	OPTIMUM	PLUS 28	% FEED	% OF
	IN PRODUCT	RECOVERY	S.G.	AS PRODUCT	PRODUCT
FLOTATION	8.70	96.70		11.87	17.43
PLUS 28	8.47	64.07	1.46	56.21	82.57
COMBINED	8.50	68.07		68.07	100.00
FLOTATION	8.70	96.70		11.87	16.82
PLUS 28	9.04	66.92	1.48	58.70	83.18
COMBINED	9.00	70.57		70.57	100.00
FLOTATION	8.70	96.70		11.87	16.32
PLUS 28	9.61	69.38	1.50	60.87	83.68
COMBINED	<u>9.50</u>	<u>72.73</u>		72.73	100.00
FLOTATION	8.70	96.70		11.87	15.83
PLUS 28	10.18	71.91	1.55	63.08	84.17
COMBINED	10.00	74.95		74.95	100.00

CUMULATIVE FLOATS WEIGHT PERCENT



POINTS PLOTTED

X	Y
99	2
29	5
53	6
60	7
69	9
73	10
99	25

CUMULATIVE FLOATS WEIGHT PERCENT

100 \* 90 \* 80 \* 70 \* 60 \* 50 \* 40 \* 30 \* 20 \* 10 \*

CUMULATIVE FLOATS WEIGHT PERCENT

100 \* 90 \* 80 \* 70 \* 60 \* 50 \* 40 \* 30 \* 20 \* 10 \*

1.3

X

X

1.4

X

SPECIFIC GRAVITY

X

1.5

X

1.6

X

1.7

POINTS PLOTTED

X	Y
29	15
53	20
63	25
69	30
73	40



COMPD NUMBER- W97

DRILL HOLE NUMBER- 1758

SEAM NUMBER- 47225 547176

FLotation RESULTS

RAU

KEROSENE 1.05 FROTHER 0.25

PRODUCT	WEIGHT (GMS)	WEIGHT %	ASSAY		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	327.	99.1	7.2	3.0	92.0	99.7
TAILS	3.	0.9	67.2	0.0	8.0	0.3
CALC. HEAD	325.	100.0	7.8		100.0	100.0

TABLE 1

PERCENTAGE CALCULATIONS FOR (+28MESH) FRACTION

TABLE 1

## WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

SG	WT. (GMS.)	WT. %	CUM.WT. %	FRACTION ASH %	ASH WT. OF TOT.	CUM.WT. %	CUM.FLTS. ASH	SINKS WT. %	ASH	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	649.	15.18	15.18	2.00	0.30	0.30	2.00	14.63		84.82	17.25	2.00	7.59	7.0
1.30-1.35	1252.	29.29	44.47	5.40	1.58	1.89	4.24	13.05		55.53	23.49	5.40	29.82	1.0
1.35-1.40	871.	20.37	64.84	9.00	1.83	3.72	5.74	11.21		35.16	31.89	9.00	54.65	1.0
1.40-1.45	497.	11.63	76.47	13.30	1.55	5.27	6.89	9.67		23.53	41.08	13.30	70.65	1.0
1.45-1.50	243.	5.68	82.15	19.50	1.11	6.37	7.76	8.56		17.85	47.95	19.50	79.31	1.0
1.50-1.60	199.	4.65	86.81	27.40	1.28	7.65	8.81	7.28		13.19	55.20	27.40	84.48	1.0
1.60 SINK	564.	13.19	100.00	55.20	7.28	14.93	14.93	0.00		0.00	0.0	55.20	93.40	0.5

FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFFAF	RECOVERY		AND ASH CALCULATIONS		FRAI	FRI	AP
		A	R	FR	FAR			
0.1277	0.0092	4.0	41.3	0.3595	0.0144	0.0236	.487	4.8
0.1277	0.0092	6.0	67.9	0.5915	0.0355	0.0447	.719	6.2
0.1277	0.0092	8.0	83.4	0.7262	0.0581	0.0673	.854	7.9
0.1277	0.0092	10.0	91.2	0.7946	0.0795	0.0887	.922	9.6
0.1277	0.0092	12.0	96.6	0.8417	0.1017	0.1102	.969	11.4
0.1277	0.0092	14.0	99.5	0.8669	0.1214	0.1306	.995	13.1

COMPO NUMBER- W097

DRILL HOLE NUMBER- 1758

SEAM NUMBER- R4<sub>U</sub>7225 & 47176

## DATA

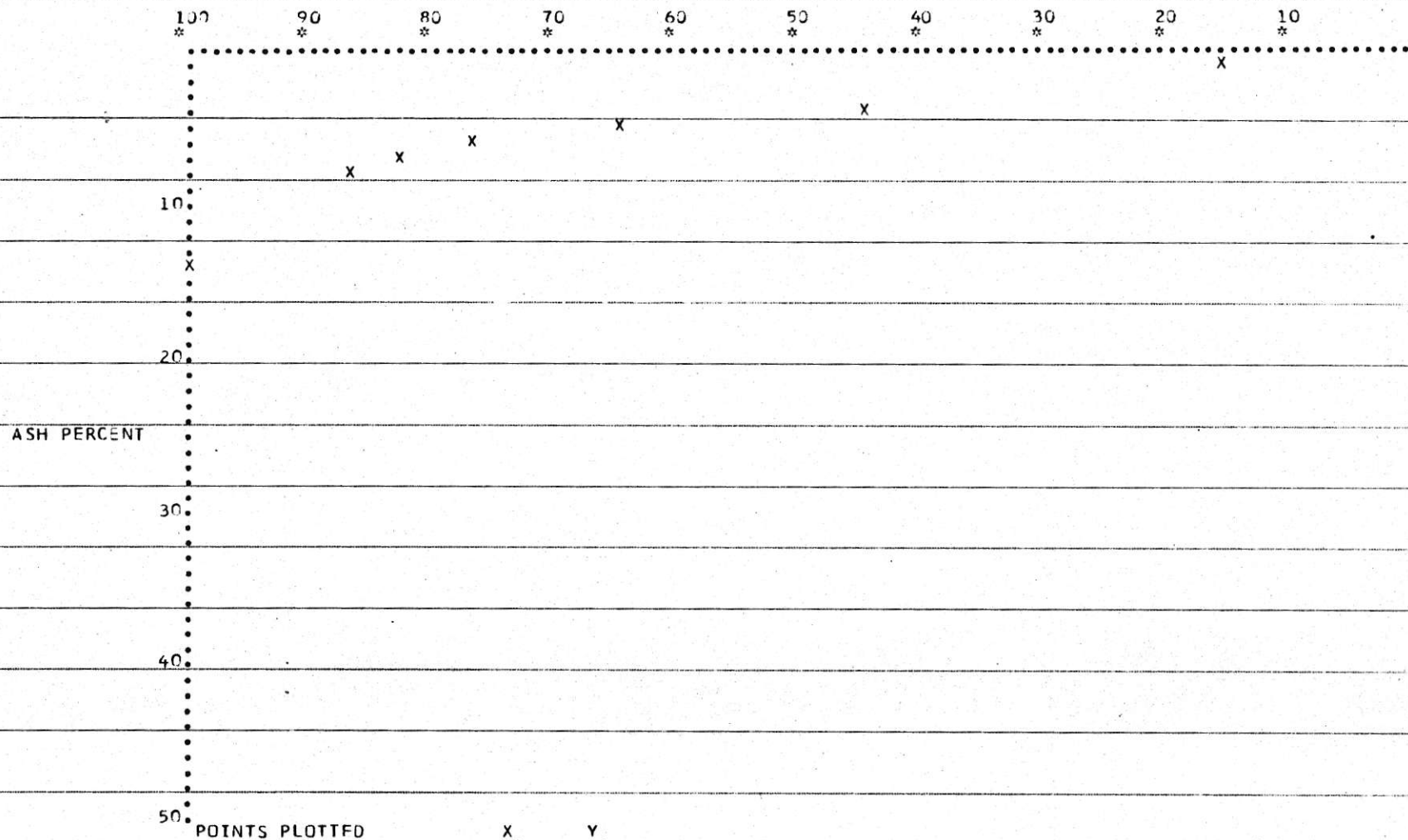
## SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MESH	4358.	87.1	14.9
-28MESH	645.	12.9	7.8
FEED	5003.	100.0	<u>14.0</u>

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	7.20	99.08		12.77	14.51
PLUS 28	8.69	86.37	1.59	75.24	85.49
COMBINED	8.50	88.01		88.01	100.00
FLOTATION	7.20	99.08		12.77	14.20
PLUS 28	9.27	88.60	+1.60	77.18	85.80
COMBINED	9.00	89.95		89.95	100.00
FLOTATION	7.20	99.08		12.77	13.92
PLUS 28	9.84	90.68	+1.60	78.99	86.08
COMBINED	<u>9.50</u>	<u>91.76</u>		91.76	100.00
FLOTATION	7.20	99.08		12.77	13.68
PLUS 28	10.41	92.55	+1.60	80.62	86.32
COMBINED	10.00	93.39		93.39	100.00

CUMULATIVE FLOATS WEIGHT PERCENT



X	Y
15	1
44	4
64	5
75	6
82	7
86	8
99	14

CUMULATIVE FLOATS WEIGHT PERCENT

100 \* 90 \* 80 \* 70 \* 60 \* 50 \* 40 \* 30 \* 20 \* 10 \*

1.3

X

X

1.4

X

SPECIFIC GRAVITY

X

1.5

X

1.6

X

1.7

POINTS PLOTTFD

X	Y
15	10
44	15
64	20
76	25
82	30
86	40

COMPO NUMBER- W094

DRILL HOLE NUMBER- 1758

SEAM NUMBER- R5a 47221

FLOTATION RESULTS

PRODUCT	KEROSENE WEIGHT (GMS)	1.05 WEIGHT %	FROTHER 0.25 ASSAY		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	738.	96.7	8.1	6.5	80.3	98.5
TAILS	8.	3.3	59.0	0.0	19.7	1.5
CALC. HEAD	746.	100.0	9.8		100.0	100.0

TABLE 1

WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

CUM. ELTS. SINKS ASH CUM. SINKS CUM. SINKS ASH ELTS. FSI

TABLE 1

## WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

SG	WT. (GMS.)	WT. %	CUM.WT. %	FRACTION ASH %	ASH WT. OF TOT.	CUM.WT. %	CUM.FLTS. ASH	SINKS ASH WT. %	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	326.	17.78	17.78	3.80	0.68	0.68	3.80	17.14	82.22	20.84	3.80	8.89	5.0
1.30-1.35	581.	31.68	49.45	7.00	2.72	2.89	5.85	14.92	50.55	29.52	7.00	33.62	1.0
1.35-1.40	348.	18.97	68.43	11.00	2.09	4.98	7.28	12.83	31.57	40.65	11.00	58.94	1.0
1.40-1.45	198.	10.80	79.23	15.60	1.68	6.66	8.41	11.15	20.77	53.67	15.60	73.83	1.0
1.45-1.50	55.	3.00	82.22	20.20	0.61	7.27	8.84	10.54	17.78	59.32	20.20	80.73	1.0
1.50-1.60	54.	2.94	85.17	29.70	0.87	8.14	9.56	9.67	14.83	65.20	29.70	83.70	1.0
1.60 SINK	272.	14.83	100.00	65.20	9.67	17.81	17.81	0.0	0.00	0.0	65.20	92.58	1.0

FOR OPTIMUM RECOVERIES

TABLE 2



FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAF	RECOVERY AND ASH CALCULATIONS						
		A	R	FR	FAR	FRAI	FRI	AP
0.1144	0.0093	4.0	21.1	0.1860	0.0074	0.0167	.300	5.6
0.1144	0.0093	6.0	51.7	0.4555	0.0273	0.0366	.570	6.4
0.1144	0.0093	8.0	75.8	0.6686	0.0535	0.0628	.783	8.0
0.1144	0.0093	10.0	86.8	0.7655	0.0766	0.0858	.880	9.8
0.1144	0.0093	12.0	93.2	0.8214	0.0986	0.1078	.936	11.5
0.1144	0.0093	14.0	97.4	0.8593	0.1203	0.1296	.974	13.3
0.1144	0.0093	16.0	99.7	0.8792	0.1407	0.1499	.994	15.1

COMPO NUMBER- W094

DRILL HOLE NUMBER- 1758

SEAM NUMBER- R5u 47221

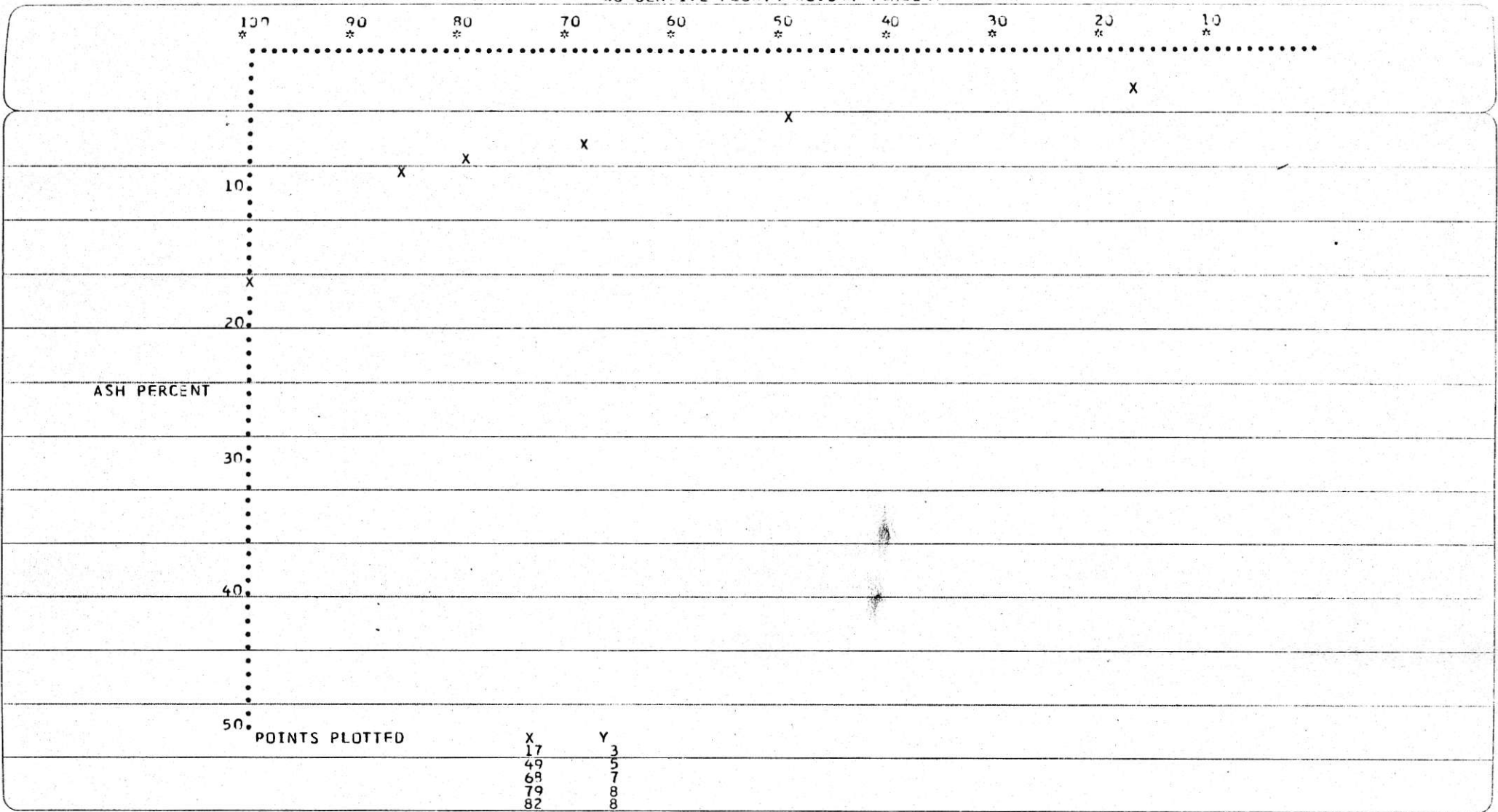
DATA  
SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MFSH	1880.	88.2	17.8
-28MFSH	252.	11.8	9.8
FEED	2132.	100.0	16.9

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	8.10	96.75		11.44	13.87
PLUS 28	8.55	80.53	1.47	71.02	86.13
COMBINED	8.50	87.45		82.45	100.00
FLOTATION	8.10	96.75		11.44	13.41
PLUS 28	9.12	83.71	1.55	73.82	86.59
COMBINED	9.00	85.25		85.25	100.00
FLOTATION	8.10	96.75		11.44	13.15
PLUS 28	9.69	85.64	+1.60	75.52	86.85
COMBINED	9.50	86.96		86.96	100.00
FLOTATION	8.10	96.75		11.44	12.88
PLUS 28	10.25	87.74	+1.60	77.37	87.12
COMBINED	10.00	88.80		88.80	100.00

CUMULATIVE FLOATS WEIGHT PERCENT



ASH PERCENT

100  
\*  
90  
\*  
80  
\*  
70  
\*  
60  
\*  
50  
\*  
40  
\*  
30  
\*  
20  
\*  
10  
\*  
0  
\*  
50  
\*

POINTS PLOTTED

X	Y
17	3
49	5
68	7
79	8
82	8
85	9
99	17

CUMULATIVE FLOATS WEIGHT PERCENT

100\* 90\* 80\* 70\* 60\* 50\* 40\* 30\* 20\* 10\*

1.3

X

X

1.4

X

SPECIFIC GRAVITY

X

1.5

X

1.6

X

1.7

POINTS PLOTTED

X	Y
17	10
49	15
68	20
79	25
82	30
85	40

COMP. NUMBER- W095

DRILL HOLE NUMBER- 1758

SEAM NUMBER-

47223

FLOTATION RESULTS

*Pt R5L*

PRODUCT	KEROSENE 1.05		FROTHER 0.25		DISTRIBUTION	
	WEIGHT (GMS)	WEIGHT %	ASSAY ASH	FSI	ASH	CLEAN CTAL
CONCENTRATE	327.	97.9	10.0	2.5	89.1	99.0
TAILS	7.	2.1	56.4	0.0	10.9	1.0
CALC. HEAD	329.	100.0	11.0		100.0	100.0

TABLE 1

WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

SG WT. WT. CUM. WT. FRACTION ASH WT. CUM. WT. CUM. ELTS. SINKS ASH

TABLE 1

## WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

SG	WT. (GMS.)	WT. %	CUM.WT. %	FRACTION ASH %	ASH WT. OF TOT.	CUM.WT. %	CUM.FLTS. ASH	SINKS WT. %	ASH	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	630.	14.50	14.50	3.60	0.52	0.52	3.60	15.51	85.50	18.14	3.60	7.25	4.0	
1.30-1.35	1040.	23.94	38.44	6.20	1.48	2.01	5.22	14.02	61.56	22.78	6.20	26.47	1.0	
1.35-1.40	841.	19.36	57.80	9.80	1.90	3.90	6.75	12.13	42.20	28.74	9.80	48.12	1.0	
1.40-1.45	506.	11.65	69.45	15.00	1.75	5.65	8.14	10.38	30.55	33.97	15.00	63.63	1.0	
1.45-1.50	368.	8.47	77.92	20.80	1.76	7.41	9.51	8.62	22.08	39.03	20.80	73.69	1.0	
1.50-1.60	312.	7.18	85.11	25.40	1.82	9.24	10.85	6.79	14.89	45.60	25.40	81.51	1.0	
1.60 SINK	647.	14.89	100.00	45.60	6.79	16.03	16.03	0.0	0.00	0.0	45.60	92.55	0.0	

FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRF AF	RECOVERY		AND ASH CALCULATIONS		FRAI	FRI	AP
		A	R	FR	FAR			
0.1075	0.0107	4.0	20.8	0.1847	0.0074	0.0181	.292	6.2
0.1075	0.0107	6.0	48.9	0.4355	0.0261	0.0369	.543	6.8
0.1075	0.0107	8.0	68.5	0.6098	0.0488	0.0595	.717	8.3
0.1075	0.0107	10.0	80.7	0.7183	0.0718	0.0826	.826	10.0
0.1075	0.0107	12.0	90.2	0.8026	0.0963	0.1071	.910	11.8
0.1075	0.0107	14.0	96.6	0.8598	0.1204	0.1311	.967	13.6
0.1075	0.0107	16.0	***	0.8899	0.1424	0.1531	.997	15.4

COMPO NUMBER- W095

DRILL HOLE NUMBER- 1758

SEAM NUMBER- <sup>P4</sup>R5L 47223

DATA  
SIZE DISTRIBUTION

COMPO NUMBER- W095

DRILL HOLE NUMBER- 1758

SEAM NUMBER- <sup>PT</sup>R5L 47223

## DATA

## SIZE DISTRIBUTION

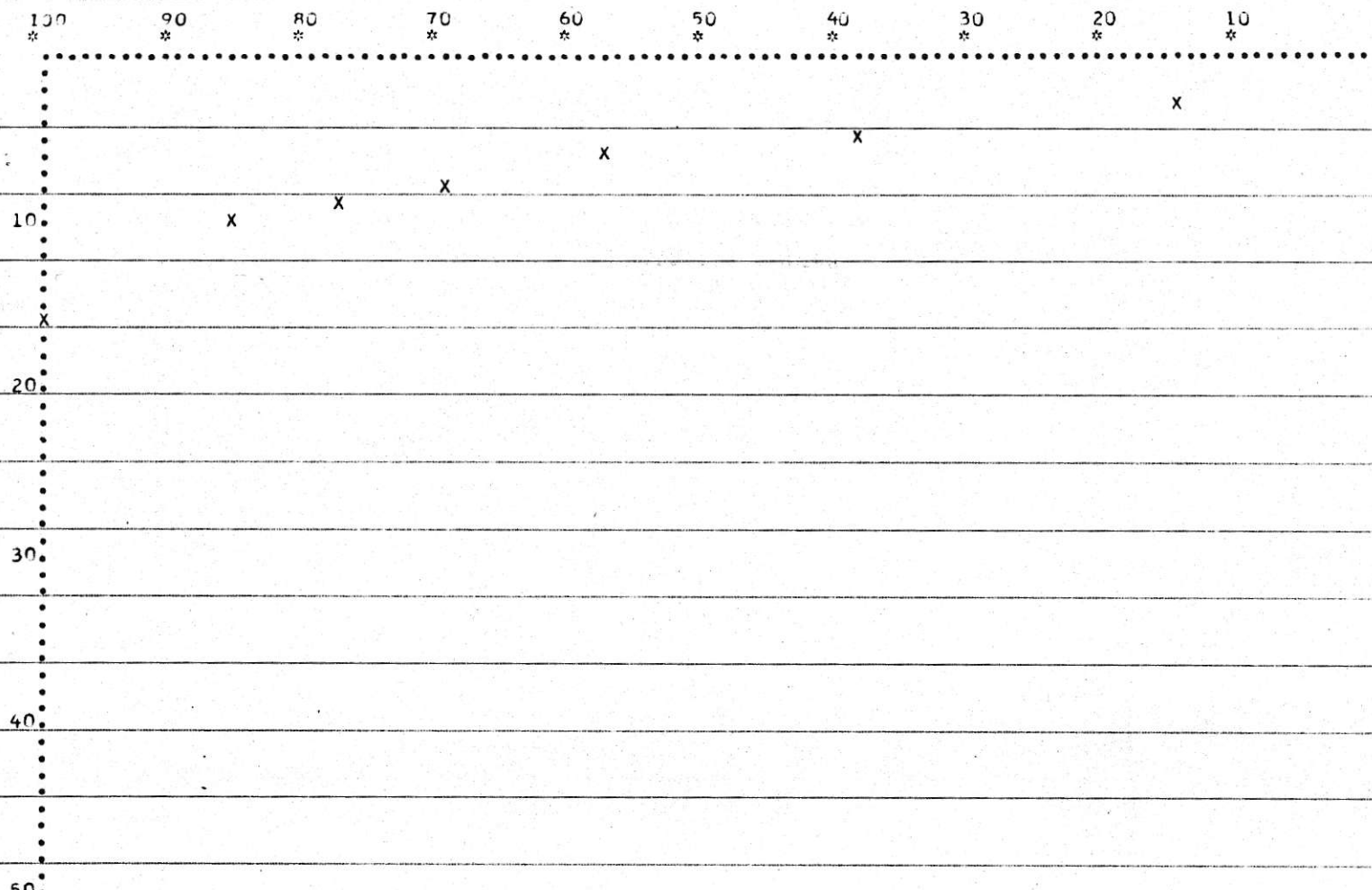
SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MESH	4426.	89.0	16.0
-28MESH	546.	11.0	11.0
FEED	4972.	100.0	15.5

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	10.00	97.87		10.75	14.59
PLUS 28	8.31	70.70	1.46	62.94	85.41
COMBINED	8.50	73.69		73.69	100.00
FLOTATION	10.00	97.87		10.75	13.98
PLUS 28	8.88	74.30	1.47	66.14	86.02
COMBINED	9.00	76.89		76.89	100.00
FLOTATION	10.00	97.87		10.75	13.47
PLUS 28	9.44	77.55	1.50	69.04	86.53
COMBINED	9.50	79.78		79.78	100.00
FLOTATION	10.00	97.87		10.75	13.02
PLUS 28	10.00	80.69	1.53	71.83	86.98
COMBINED	10.00	82.58		82.58	100.00



CUMULATIVE FLUATS WEIGHT PERCENT



ASH PERCENT

POINTS PLOTTED

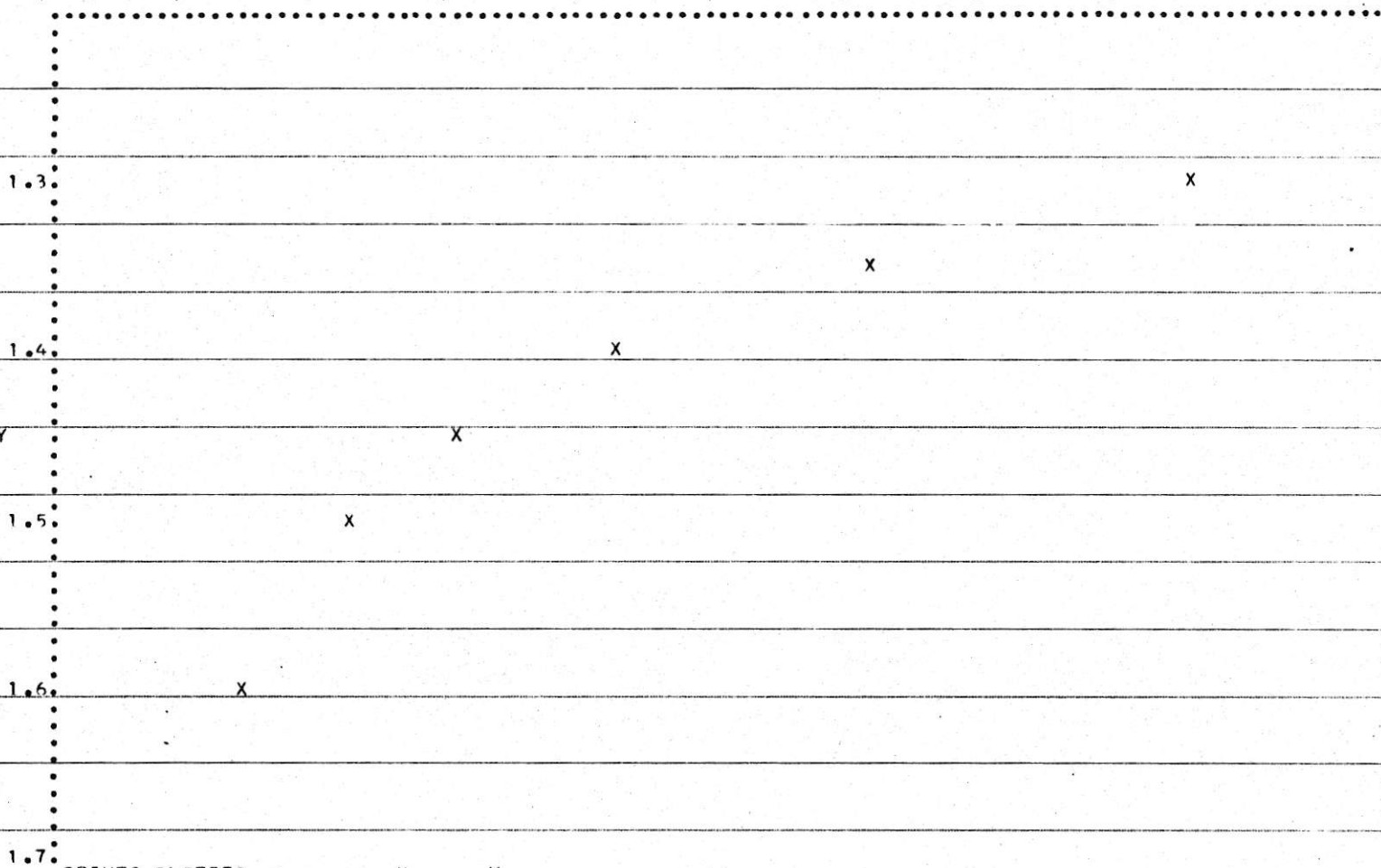
X	Y
14	3
38	5
57	6
69	8
77	9
85	10
99	16

CUMULATIVE FLUATS WEIGHT PERCENT

PRINTED IN GREAT BRITAIN

CUMULATIVE FLUIDS WEIGHT PERCENT

100 \* 90 \* 80 \* 70 \* 60 \* 50 \* 40 \* 30 \* 20 \* 10 \*



SPECIFIC GRAVITY

1.7 POINTS PLOTTED

X	Y
14	10
38	15
57	20
69	25
77	30
85	40

COMPO NUMBER- W087

DRILL HOLE NUMBER- 1758

SEAM NUMBER- F9 47207

FLOTATION RESULTS

KERUSENE 1.05

FROTHER 0.25

PRODUCT	WEIGHT (GMS)	WEIGHT %	ASSAY		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	289.	88.1	7.7	7.5	50.7	93.9
TAILS	39.	11.9	55.4	1.0	49.3	6.1
CALC. HEAD	328.	100.0	13.4		100.0	100.0

1758

TABLE 1

WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

SG WT. WT. CUM. WT. FRACTION

TABLE 1

## WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

SG	WT. (GMS.)	WT. %	CUM.WT. %	FRACTION ASH %	ASH WT. OF TOT.	CUM.WT. %	CUM.FLTS. ASH	SINKS WT. %	ASH	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	942.	61.01	61.01	2.50	1.53	1.53	2.50	14.09	38.99	36.10	2.50	30.51	8.0	
1.30-1.35	164.	17.62	71.63	8.30	0.88	2.41	3.36	13.19	23.37	46.51	8.30	65.32	5.0	
1.35-1.40	88.	5.70	77.33	11.20	0.64	3.05	3.94	12.56	22.67	55.39	11.20	74.48	1.0	
1.40-1.45	57.	3.37	80.70	15.60	0.53	3.57	4.42	12.03	19.30	62.33	15.60	79.02	1.0	
1.45-1.50	27.	1.42	82.12	20.00	0.28	3.86	4.69	11.75	17.88	65.71	20.00	81.41	1.0	
1.50-1.60	18.	1.17	83.29	27.10	0.32	4.17	5.01	11.43	16.71	68.40	27.10	82.71	1.0	
1.60 SINK	258.	16.71	100.00	68.40	11.43	15.60	15.60	0.00	0.00	0.0	68.40	91.65	0.0	

FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAF	RECOVERY		AND ASH CALCULATIONS		FRAI	FRI	AP
		A	R	FR	FAR			
0.1564	0.0120	4.0	77.8	0.6399	0.0256	0.0376	.796	4.7
0.1564	0.0120	6.0	86.7	0.7133	0.0428	0.0548	.870	6.3
0.1564	0.0120	8.0	92.5	0.7606	0.0608	0.0729	.917	7.9
0.1564	0.0120	10.0	96.7	0.7950	0.0795	0.0915	.951	9.6
0.1564	0.0120	12.0	99.3	0.8164	0.0980	0.1100	.973	11.3
0.1564	0.0120	14.0	***	0.8250	0.1155	0.1275	.981	13.0

COMPO NUMBER- W087

DRILL HOLE NUMBER- 1758

SEAM NUMBER- ~~A111~~ 47207

R9

DATA

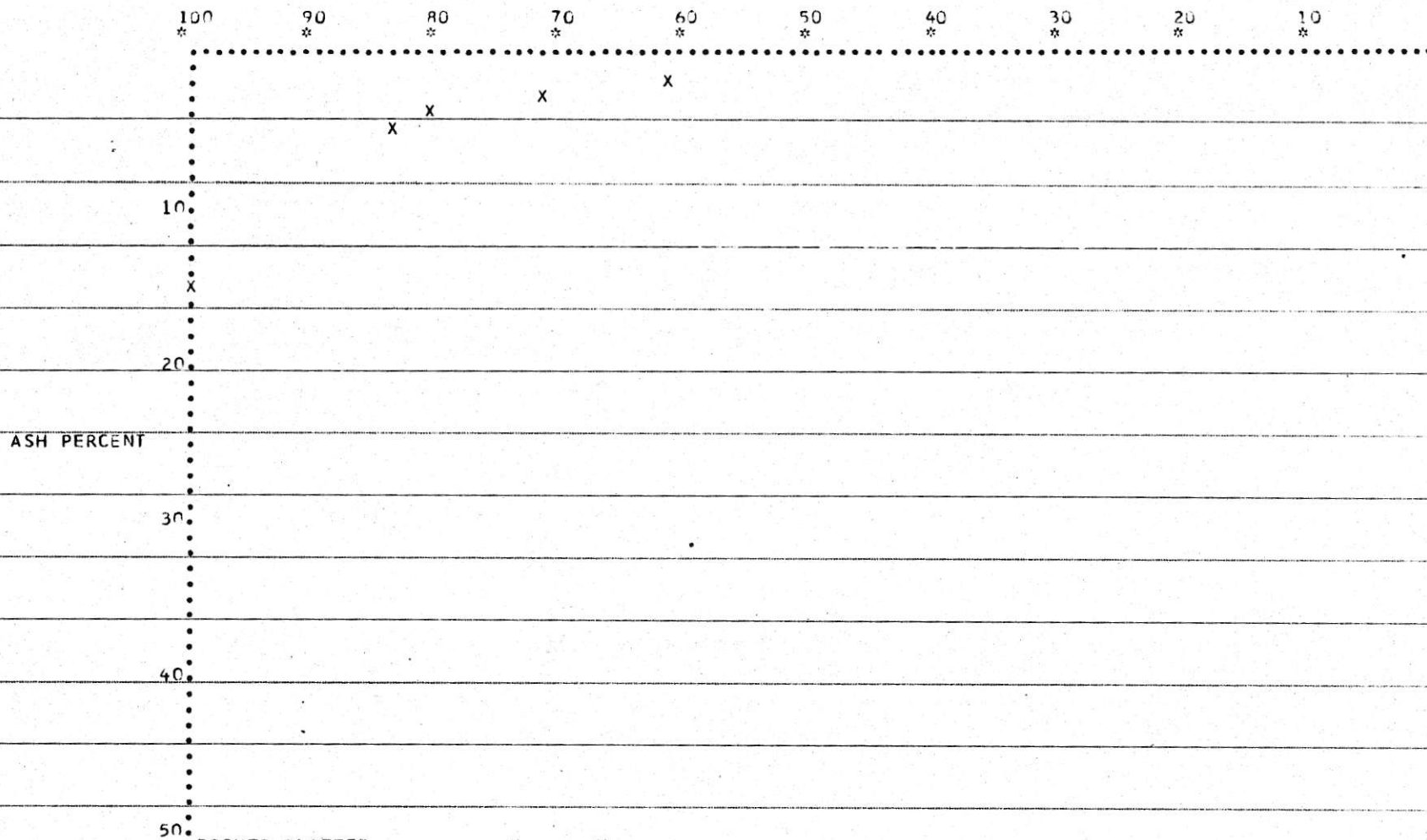
SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MESH	1571.	82.3	15.6
-28MESH	339.	17.7	13.4
FEED	1910.	100.0	15.2

TABLE 3

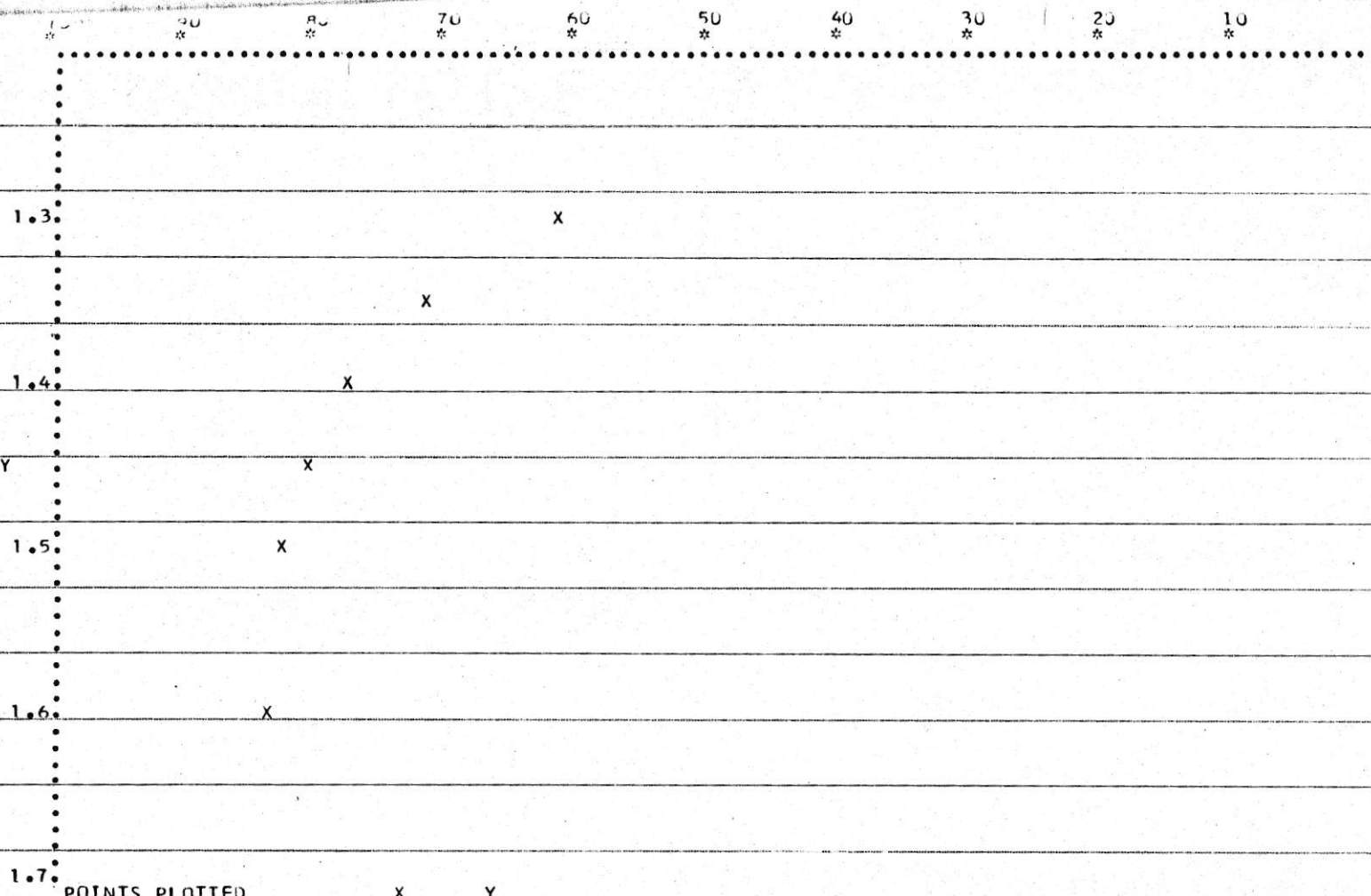
AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	7.70	88.11		15.64	16.82
PLUS 28	8.67	94.05	+1.60	77.36	83.18
COMBINED	8.50	93.00		93.00	100.00
FLOTATION	7.70	88.11		15.64	16.63
PLUS 28	9.28	95.33	+1.60	78.41	83.37
COMBINED	9.00	94.05		94.05	100.00
FLOTATION	7.70	88.11		15.64	16.47
PLUS 28	9.89	96.46	+1.60	79.34	83.53
COMBINED	9.50	94.98		94.98	100.00
FLOTATION	7.70	88.11		15.64	16.33
PLUS 28	10.50	97.45	+1.60	80.15	83.67
COMBINED	10.00	95.79		95.79	100.00

CUMULATIVE FLOATS WEIGHT PERCENT



POINTS PLOTTED

X	Y
61	2
71	3
77	3
80	4
82	4
83	5
99	15



SPECIFIC GRAVITY

1.3  
1.4  
1.5  
1.6  
1.7

POINTS PLOTTED

X	Y
61	10
71	15
77	20
80	25
82	30
83	40

COMPO NUMBER- W089

DRILL HOLE NUMBER- 1758

SEAM NUMBER- R54 47213

FLOTATION RESULTS

KEROSENE 1.05 FROTHER 0.25

PRODUCT	WEIGHT (GMS)	WEIGHT %	ASSAY		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	242.	97.6	7.6	6.5	87.1	98.6
TAILS	6.	2.4				



DRILL HOLE NUMBER- 1758

SEAM NUMBER- *R54* 47213

## FLOTATION RESULTS

PRODUCT	KEROSENE WEIGHT (GMS)	1.05 WEIGHT %	FROTHER 0.25		DISTRIBUTION	
			ASSAY ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	242.	97.6	7.6	6.5	87.1	98.6
TAILS	6.	2.4	45.6	1.0	12.9	1.4
CALC. HEAD	248.	100.0	8.5		100.0	100.0

TABLE 1

WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

TABLE 1

## WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

SG	WT. (GMS.)	WT. %	CUM.WT. %	FRACTION ASH %	ASH WT. OF TOT.	CUM.WT. %	CUM.FLTS. ASH	SINKS WT. %	ASH	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	350.	19.94	19.94	3.20	0.64	0.64	3.20	14.12	80.06	17.64	3.20	9.97	8.0	
1.30-1.35	523.	29.80	49.74	7.20	2.15	2.78	5.60	11.98	50.26	23.83	7.20	34.84	3.0	
1.35-1.40	333.	18.97	68.72	12.90	2.45	5.23	7.61	9.53	31.28	30.46	12.90	59.23	1.5	
1.40-1.45	191.	10.88	79.60	17.90	1.95	7.18	9.02	7.58	20.40	37.16	17.90	74.16	1.5	
1.45-1.50	99.	5.64	85.24	23.20	1.31	8.49	9.96	6.27	14.76	42.50	23.20	82.42	1.5	
1.50-1.60	131.	7.46	92.71	29.70	2.22	10.71	11.55	4.06	7.29	55.60	29.70	88.97	1.0	
1.60 SINK	128.	7.29	100.00	55.60	4.06	14.76	14.76	0.00	0.00	0.00	55.60	96.35	1.0	

FOR OPTIMUM RECOVERIES

TABLE 2

RECOVERY AND ASH CALCULATIONS

FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAF	RECOVERY		AND ASH CALCULATIONS		FRAI	FRI	AP
		A	R	FR	FAR			
0.1211	0.0092	4.0	30.8	0.2695	0.0108	0.0200	.391	5.1
0.1211	0.0092	6.0	53.9	0.4723	0.0283	0.0375	.593	6.3
0.1211	0.0092	8.0	72.0	0.6304	0.0504	0.0596	.751	7.9
0.1211	0.0092	10.0	85.5	0.7485	0.0749	0.0841	.870	9.7
0.1211	0.0092	12.0	94.4	0.8264	0.0997	0.1084	.948	11.4
0.1211	0.0092	14.0	99.2	0.8689	0.1216	0.1308	.990	13.2

PRINTED IN CANADA  
P. L. CRAIN INC.

COMPO NUMBER- W089

DRILL HOLE NUMBER- 1758

SEAM NUMBER- *RSV* 47213

DATA

COMPO NUMBER- W089

DRILL HOLE NUMBER- 1758

SEAM NUMBER- *RSV* 47213

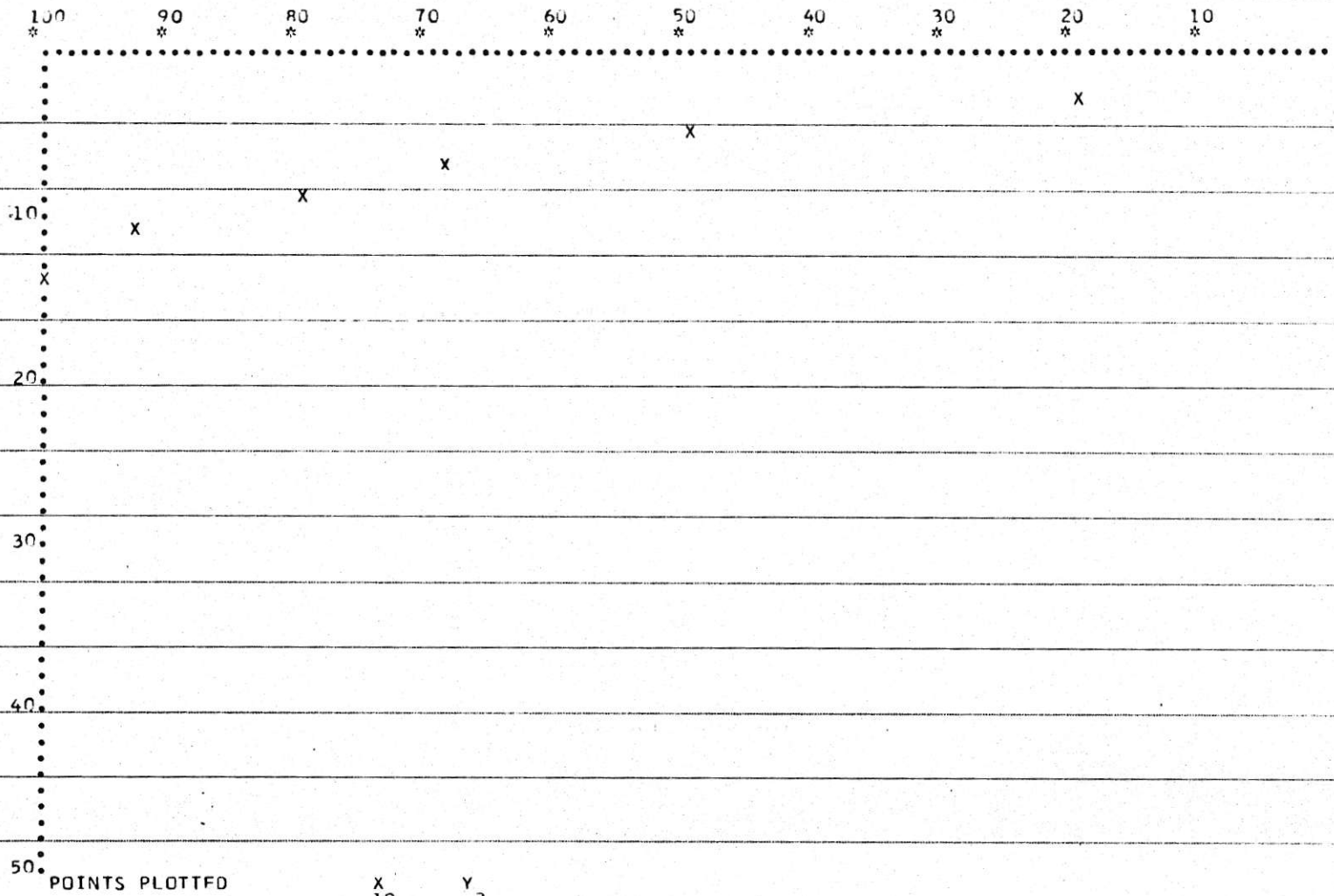
DATA  
SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MFSH	1792.	87.6	14.8
-28MFSH	254.	12.4	8.5
FEED	2046.	100.0	<u>14.0</u>

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	7.60	97.58		12.11	15.26
PLUS 28	8.63	76.83	1.43	67.29	84.74
COMBINED	8.50	79.40		79.40	100.00
FLOTATION	7.60	97.58		12.11	14.62
PLUS 28	9.20	80.77	1.46	70.74	85.38
COMBINED	9.00	82.86		82.86	107.00
FLOTATION	7.60	97.58		12.11	14.11
PLUS 28	9.77	84.20	1.49	73.75	85.89
COMBINED	<u>9.50</u>	<u>85.86</u>		85.86	100.00
FLOTATION	7.60	97.58		12.11	13.68
PLUS 28	10.34	87.26	1.52	76.43	86.32
COMBINED	10.00	88.54		88.54	100.00

CUMULATIVE FLOATS WEIGHT PERCENT



ASH PERCENT

POINTS PLOTTED

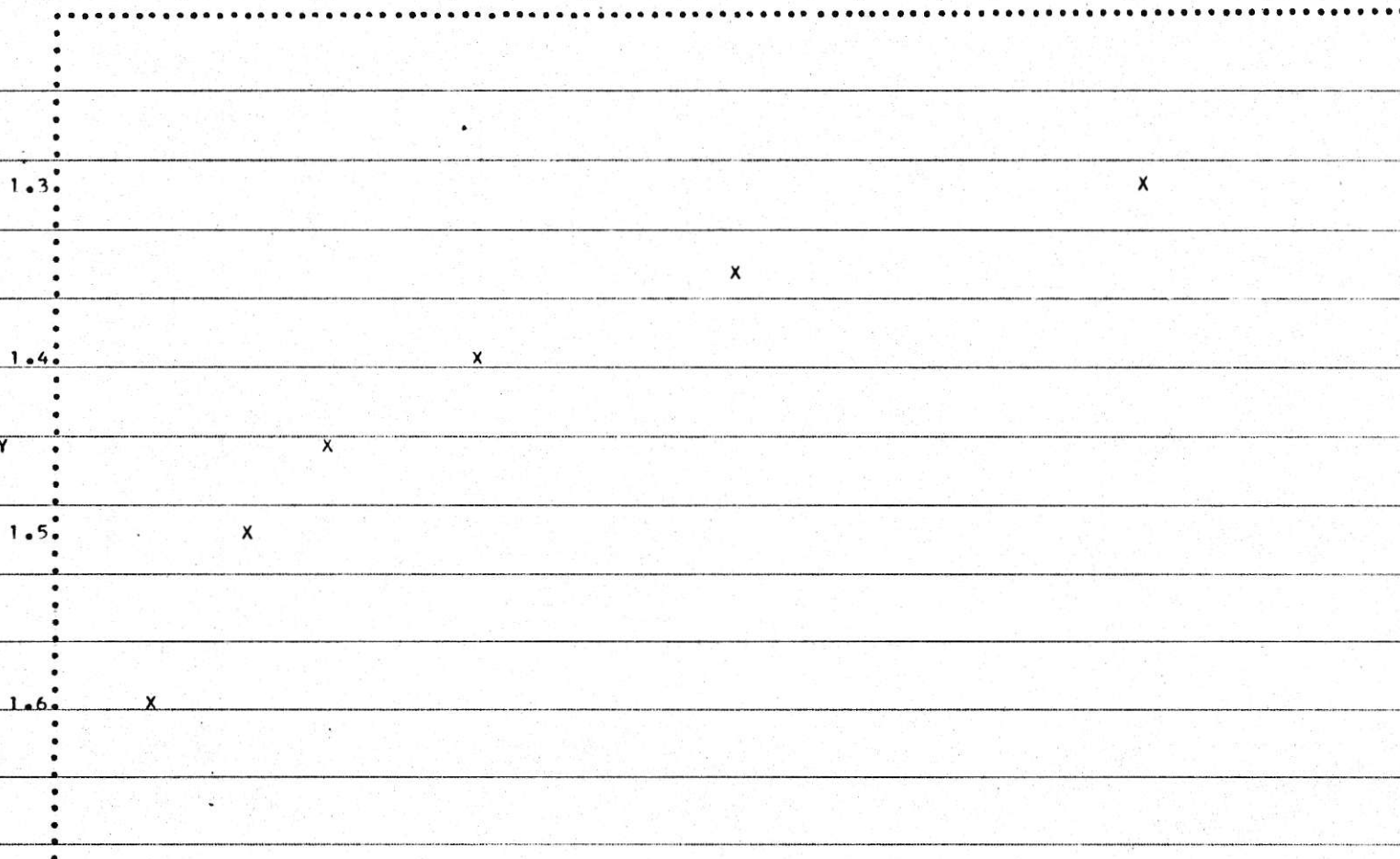
X	Y
19	3
49	5
63	7
79	9
85	9
92	11
99	14

CUMULATIVE FLOATS WEIGHT PERCENT

100 \* 90 \* 80 \* 70 \* 60 \* 50 \* 40 \* 30 \* 20 \* 10

CUMULATIVE FLOATS WEIGHT PERCENT

100 \* 90 \* 80 \* 70 \* 60 \* 50 \* 40 \* 30 \* 20 \* 10 \*



SPECIFIC GRAVITY

1.3  
1.4  
1.5  
1.6  
1.7

POINTS PLOTTED

X	Y
19	10
49	15
68	20
79	25
85	30
92	40

COMP NO NUMBER- W086

DRILL HOLE NUMBER- 1758

SFAM NUMBER- 47201-206

FLOTATION RESULTS

*R11a-11*

KEROSENE 0.75 FROTHER 0.15

PRODUCT	WEIGHT (GMS)	WEIGHT %	ASSAY		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	298.	91.1	4.7	7.0	67.4	92.7
TAILS	29.	8.9	23.4	5.0	32.6	7.3
CALC. HEAD	327.	100.0	6.4		100.0	100.0

KEROSENE 0.97 FROTHER 0.20

PRODUCT	WEIGHT (GMS)	WEIGHT %	ASSAY		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	310.	95.1	4.4	6.5	83.1	95.7
TAILS	16.	4.9	17.3	6.5	16.9	4.3
CALC. HEAD	326.	100.0	5.0		100.0	100.0

TABLE 1

WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

SG	WT. (GMS)	WT. %	CUM. WT. %	FRACTION	ASH WT. OF INT.	CUM. WT. %	CUM. FLTS. ASH	SINKS WT. %	ASH	CUM. SINKS WT. %	CUM. SINKS ASH %	ASH	FLTS. CONTENT	YIELD	FSI
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TABLE 1

## WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

SG	WT. (GMS.)	WT. %	CUM. WT. %	FRACTION ASH %	ASH WT. OF TOT.	CUM. WT. %	CUM. FLTS. ASH	SINKS WT. %	ASH WT. %	CUM. SINKS WT. %	CUM. SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	1626.	56.22	56.22	2.50	1.41	1.41	2.50	15.92	43.78	43.38	36.38	2.50	28.11	7.0
1.30-1.35	411.	14.21	70.44	7.80	1.11	2.51	3.57	14.82	29.56	50.12	50.12	7.80	53.33	4.0
1.35-1.40	166.	5.74	76.18	12.80	0.73	3.25	4.26	14.08	23.82	59.11	59.11	12.80	73.31	2.5
1.40-1.45	102.	3.53	79.70	17.20	0.61	3.86	4.84	13.47	20.30	66.39	66.39	17.20	77.94	1.5
1.45-1.50	49.	1.69	81.40	23.10	0.39	4.25	5.22	13.08	18.60	70.33	70.33	23.10	80.55	1.0
1.50-1.60	63.	2.18	83.58	30.60	0.67	4.91	5.83	12.42	16.42	75.60	75.60	30.60	82.49	1.0
1.60 SINK	475.	16.42	100.00	75.60	12.42	17.33	17.33	0.0	0.00	0.00	0.00	75.60	91.79	0.0



## FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAF	RECOVERY AND ASH		CALCULATIONS		FRAI	FRI	AP
		A	R	FR	FAR			
0.3755	0.0165	4.0	74.3	0.4493	0.0180	0.0345	.825	4.2
0.3755	0.0165	6.0	84.0	0.5081	0.0305	0.0470	.884	5.3
0.3755	0.0165	8.0	89.7	0.5425	0.0434	0.0599	.918	6.5
0.3755	0.0165	10.0	94.1	0.5696	0.0570	0.0735	.945	7.8
0.3755	0.0165	12.0	97.4	0.5892	0.0707	0.0872	.965	9.0
0.3755	0.0165	14.0	99.4	0.6013	0.0842	0.1007	.977	10.3
0.3755	0.0165	16.0	****	0.6061	0.0970	0.1135	.982	11.6

COMPO NUMBER- W786

DRILL HOLE NUMBER- 1758

SFAM NUMBER- ~~R12~~ 472J1-206

DATA

COMPO NUMBER- W086

DRILL HOLE NUMBER- 1758

SEAM NUMBER- ~~R12~~ 472J1-206

## DATA

## SIZE DISTRIBUTION

R11a-11

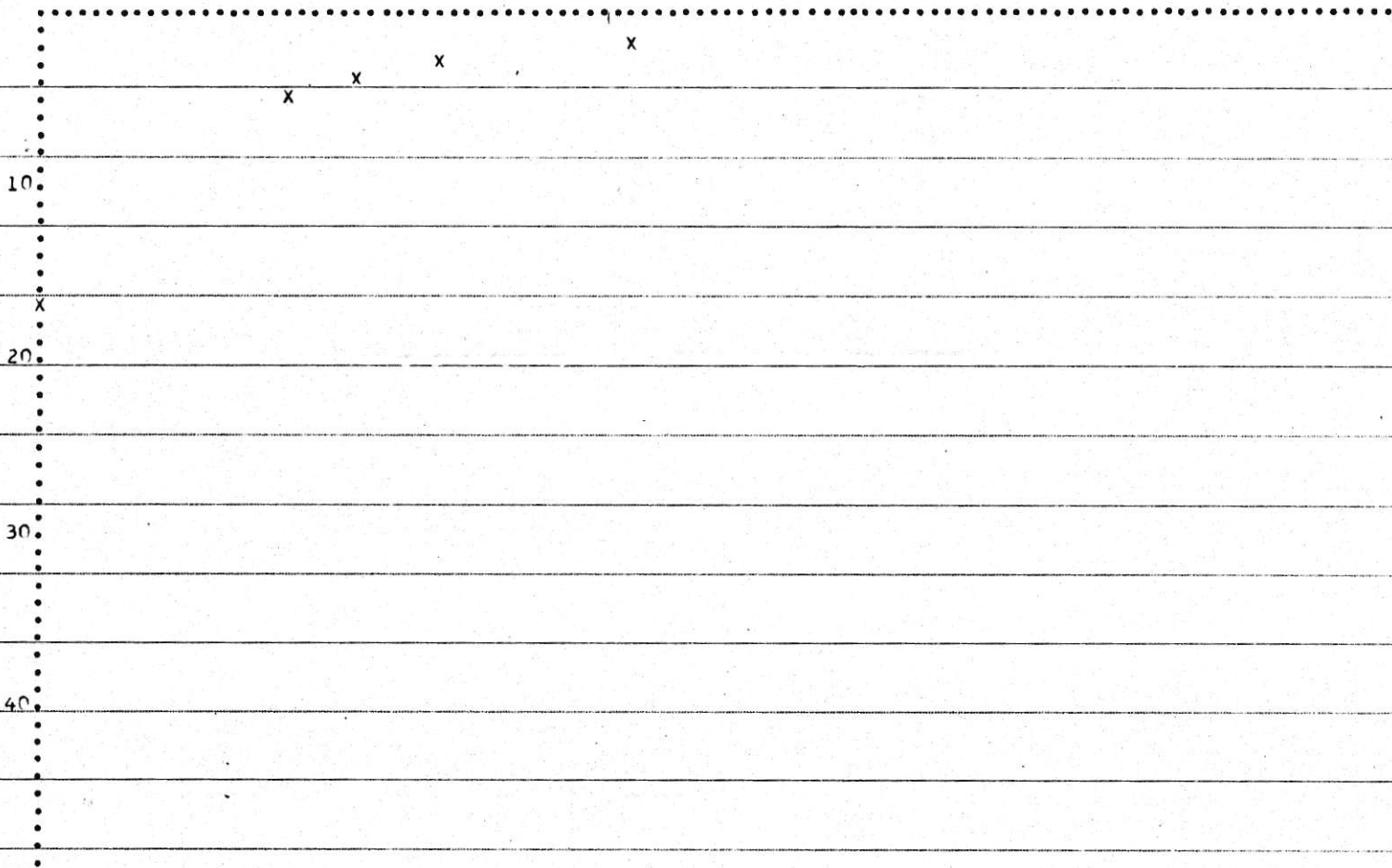
SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MESH	2999.	60.5	17.3
-28MESH	1957.	39.5	5.0
FEED	4956.	100.0	12.5

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	4.40	95.09		37.55	39.22
PLUS 28	11.18	96.18	+1.60	58.20	60.78
COMBINED	8.50	95.75		95.75	100.00
FLOTATION	4.40	95.09		37.55	38.92
PLUS 28	17.00	97.36	+1.60	58.92	61.08
COMBINED	9.00	96.47		96.47	100.00
FLOTATION	4.40	95.09		37.55	38.69
PLUS 28	12.83	98.34	+1.60	59.51	61.31
COMBINED	9.50	97.06		97.06	100.00
FLOTATION	4.40	95.09		37.55	38.50
PLUS 28	13.65	99.11	+1.60	59.98	61.50
COMBINED	10.00	97.53		97.53	100.00

CUMULATIVE FLOATS WEIGHT PERCENT

100 \* 90 \* 80 \* 70 \* 60 \* 50 \* 40 \* 30 \* 20 \* 10 \*



ASH PERCENT

10

20

30

40

50

POINTS PLOTTED

X	Y
56	2
70	3
76	4
79	4
81	5
83	5
99	17

CUMULATIVE FLOATS WEIGHT PERCENT

100 90 80 70 60 50 40 30 20 10

CUMULATIVE FLOATS WEIGHT PERCENT

100 \* 90 \* 80 \* 70 \* 60 \* 50 \* 40 \* 30 \* 20 \* 10 \*

1.3

x

x

1.4

x

SPECIFIC GRAVITY

x

1.5

x

1.6

x

1.7

POINTS PLOTTED

X	Y
56	10
70	15
76	20
79	25
81	30
83	40

COMPD NUMBER- W090

DRILL HOLE NUMBER- 1758

SEAM NUMBER- R5L 47214

FLOTATION RESULTS

PRODUCT	KEROSENE 0.75		FROTHER 0.15		DISTRIBUTION	
	WEIGHT (GMS)	WEIGHT %	ASSAY ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	300.	92.6	6.6	4.5	70.2	94.7
TAILS	24.	7.4	35.0	1.0	29.8	5.3
CALC. HEAD	324.	100.0	8.7		100.0	100.0

PRODUCT	KEROSENE 0.90		FROTHER 0.20		DISTRIBUTION	
	WEIGHT (GMS)	WEIGHT %	ASSAY ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	308.	95.7	7.2	5.0	77.8	97.4
TAILS	14.	4.3	45.3	0.5	22.2	2.6
CALC. HEAD	322.	100.0	8.9		100.0	100.0

TABLE 1

WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

SG WT. (GMS.) WT. % CUM. WT. FRACTION ASH WT. CUM. WT. CUM. ELTS. SINKS ASH CUM. WT.

TABLE 1

## WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

SG	WT. (GMS.)	WT. %	CUM.WT. %	FRACTION ASH %	ASH WT. OF TOT.	CUM.WT. %	CUM.FLTS. ASH	SINKS ASH WT. %	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	691.	18.13	18.10	2.10	0.38	0.38	2.10	12.06	81.90	14.72	2.10	9.05	7.5
.30-1.35	1334.	34.94	53.04	5.50	1.92	2.30	4.34	10.14	46.96	21.58	5.50	35.57	1.0
.35-1.40	743.	19.46	72.50	9.20	1.79	4.09	5.64	8.35	27.50	30.35	9.20	62.77	1.0
.40-1.45	293.	7.67	80.17	15.10	1.16	5.25	6.55	7.19	19.83	36.25	15.10	76.34	1.0
.45-1.50	209.	5.47	85.65	20.40	1.12	6.37	7.43	6.07	14.35	42.30	20.40	82.91	***
.50-1.60	211.	5.53	91.17	25.20	1.39	7.76	8.51	4.68	8.83	53.00	25.20	88.41	1.0
.60 SINK	337.	8.83	100.00	53.00	4.68	12.44	12.44	0.00	0.00	0.0	53.00	95.59	1.0

FOR OPTIMUM RECOVERIES

TABLE 2

H. L. GRANT, INC.

FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAP	RECOVERY		AND ASH CALCULATIONS		FRAI	FRI	AP
		A	R	FR	FAR			
0.1489	0.0098	4.0	47.9	0.4916	0.0161	0.0259	.551	4.7
0.1489	0.0098	6.0	75.9	0.6372	0.0387	0.0481	.786	6.1
0.1489	0.0098	8.0	88.7	0.7446	0.0596	0.0694	.894	7.8
0.1489	0.0098	10.0	96.6	0.8108	0.0811	0.0909	.960	9.5
0.1489	0.0098	12.0	99.9	0.8383	0.1006	0.1104	.987	11.2

COMPD NUMBER- W790

DRILL HOLE NUMBER- 1758

SEAM NUMBER- RS 47214

DATA

SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MFSH	3913.	83.9	12.4
-28MFSH	750.	16.1	8.9
FEED	4663.	100.0	<u>11.9</u>

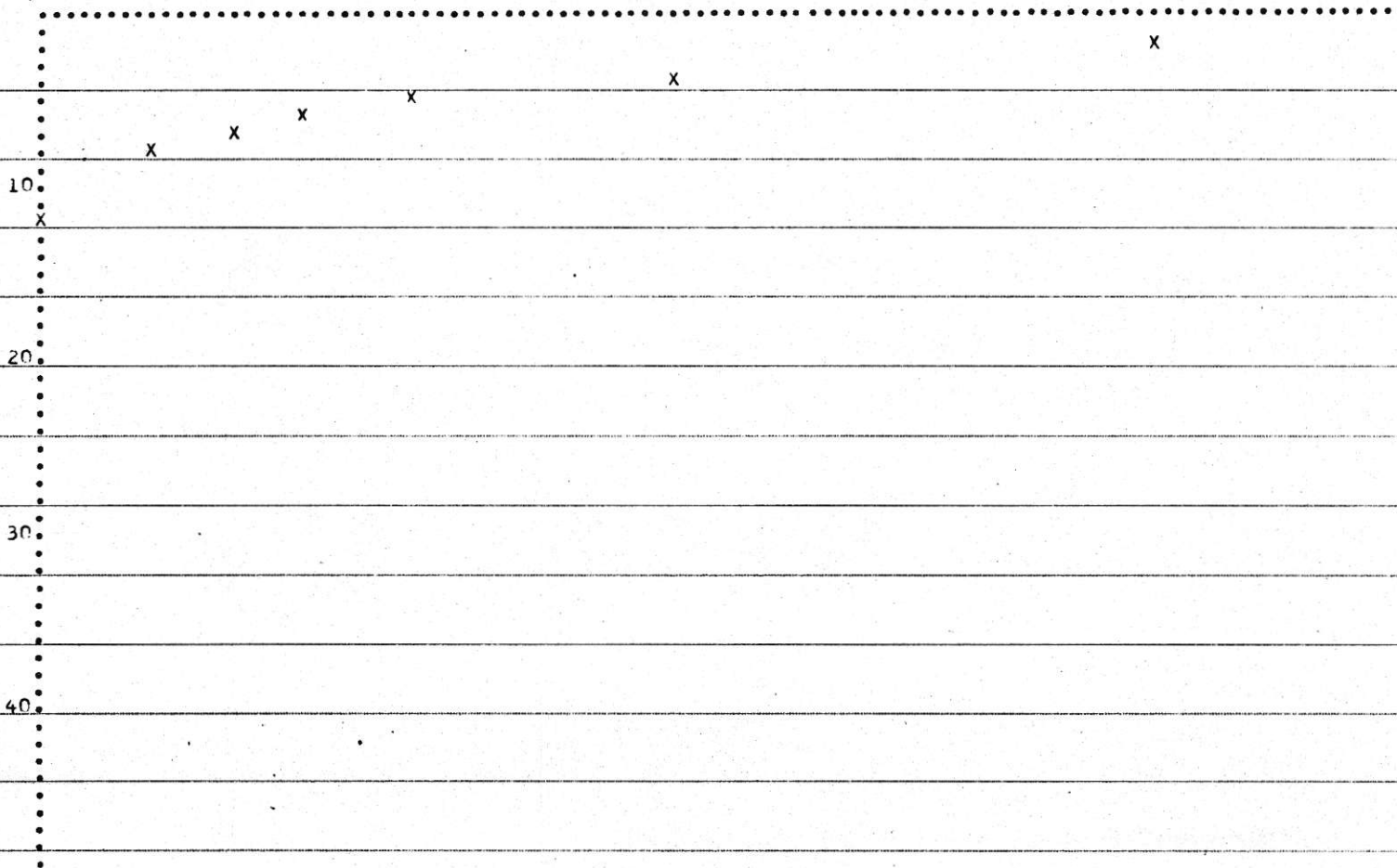
TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	6.60	97.59		14.89	16.07
PLUS 28	8.86	97.70	+1.60	77.79	83.93
COMBINED	8.50	97.68		92.68	100.00
FLOTATION	6.60	97.59		14.89	15.75
PLUS 28	9.46	94.94	+1.60	79.67	84.25
COMBINED	9.00	94.56		94.56	100.00
FLOTATION	6.60	97.59		14.89	15.50
PLUS 28	10.06	96.77	+1.60	81.20	84.50
COMBINED	<u>9.50</u>	<u>96.10</u>		96.10	100.00
FLOTATION	6.60	97.59		14.89	15.31
PLUS 28	10.65	98.19	+1.60	82.40	84.69
COMBINED	10.00	97.29		97.29	100.00



CUMULATIVE FLOATS WEIGHT PERCENT

100 \* 90 \* 80 \* 70 \* 60 \* 50 \* 40 \* 30 \* 20 \* 10 \*



ASH PERCENT

POINTS PLOTTED

X	Y
18	2
53	4
72	5
80	6
85	7
91	8
99	12

CUMULATIVE FLOATS WEIGHT PERCENT

100 \* 90 \* 80 \* 70 \* 60 \* 50 \* 40 \* 30 \* 20 \* 10 \*

CUMULATIVE FLOATS WEIGHT PERCENT

100 \* 90 \* 80 \* 70 \* 60 \* 50 \* 40 \* 30 \* 20 \* 10 \*

1.3

X

X

1.4

X

X

1.5

X

1.6

X

1.7

POINTS PLOTTED

X	Y
18	10
53	15
72	20
80	25
85	30
91	40

SPECIFIC GRAVITY

COMPO NUMBER- W388

DRILL HOLE NUMBER- 1758

SEAM NUMBER- R7 47210-212

FLOTATION RESULTS

KEROSENE 0.75

FROTHER 0.15

PRINTED IN CANADA

R. L. GRAVE INC.

DRILL HOLE NUMBER- 1758

SFAM NUMBER- R7 47210-212

FLOTATION RESULTS

PRODUCT	KEROSENE 0.75		FROTHER 0.15		DISTRIBUTION	
	WEIGHT (GMS)	WEIGHT %	ASSAY ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	288.	88.6	6.0	0.0	64.2	90.8
TAILS	37.	11.4	26.0	0.0	35.8	9.2
CALC. HEAD	325.	100.0	8.3		100.0	100.0

PRODUCT	KEROSENE 0.90		FROTHER 0.20		DISTRIBUTION	
	WEIGHT (GMS)	WEIGHT %	ASSAY ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	295.	91.3	6.0	0.0	64.8	93.8
TAILS	28.	8.7	34.3	0.0	35.2	6.2
CALC. HEAD	323.	100.0	8.5		100.0	100.0

TABLE 1

## WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

SG	WT. (GMS.)	WT. %	CUM.WT. %	FRACTION ASH %	ASH WT. OF TOT.	CUM.WT. %	CUM.FLTS. ASH	SINKS WT. %	ASH	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	700.	17.74	17.74	2.00	0.35	0.35	2.00	12.36	82.26	15.02	2.00	8.87	0.5	
1.30-1.35	1833.	46.45	64.19	4.70	2.18	2.54	3.95	10.18	35.81	28.42	4.70	40.97	0.0	
1.35-1.40	611.	15.48	79.68	8.30	1.29	3.82	4.80	8.89	20.32	43.75	8.30	71.93	0.0	
1.40-1.45	228.	5.78	85.45	12.50	0.72	4.55	5.32	8.17	14.55	56.16	12.50	82.56	0.0	
1.45-1.50	90.	2.28	87.73	17.60	0.40	4.95	5.64	7.77	12.27	63.33	17.60	86.59	0.0	
1.50-1.60	86.	2.18	89.91	25.50	0.56	5.50	6.12	7.21	10.09	71.50	25.50	88.82	0.0	
1.60 SINK	398.	10.09	100.00	71.50	7.21	12.71	12.71	0.00	0.00	0.0	71.50	94.96	0.0	

FOR OPTIMUM RECOVERIES

TABLE 2

FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFREAF	RECOVERY		AND ASH CALCULATIONS		FRAI	FRI	AP
		A	R	FR	FAR			
0.1783	0.0107	4.0	65.2	0.5244	0.0210	0.0317	.703	4.5
0.1783	0.0107	6.0	89.4	0.7193	0.0432	0.0539	.898	6.0
0.1783	0.0107	8.0	96.5	0.7770	0.0622	0.0729	.955	7.6
0.1783	0.0107	10.0	****	0.8073	0.0807	0.0914	.986	9.3
0.1783	0.0107	12.0	****	0.8104	0.0972	0.1079	.989	10.9

COMPO NUMBER- W088

DRILL HOLE NUMBER- 1758

SEAM NUMBER- ~~47210-212~~ R7

DATA

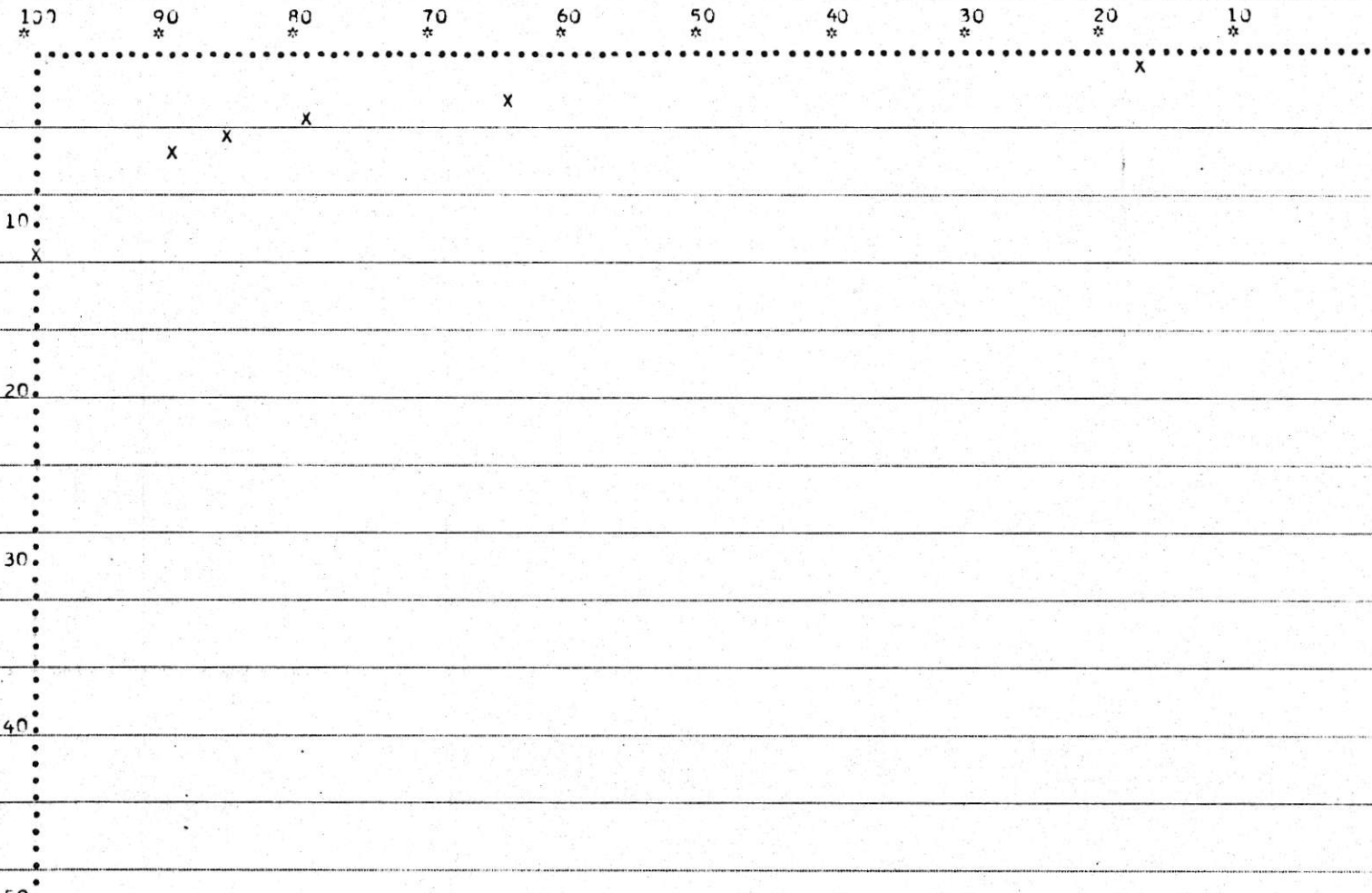
SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MESH	4012.	80.5	12.7
-28MESH	973.	19.5	8.5
FEED	4985.	100.0	11.9

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	6.00	91.33		17.83	55.53
PLUS 28	9.11	17.74	+1.60	14.28	44.47
COMBINED	8.50	32.10		32.10	100.00
FLOTATION	6.00	91.33		17.83	25.65
PLUS 28	9.73	64.19	+1.60	51.66	74.35
COMBINED	9.00	69.49		69.49	100.00
FLOTATION	6.00	91.33		17.83	21.75
PLUS 28	10.35	79.68	+1.60	64.12	78.25
COMBINED	9.50	81.95		81.95	100.00
FLOTATION	6.00	91.33		17.83	20.58
PLUS 28	10.97	85.45	+1.60	68.77	79.42
COMBINED	10.00	86.60		86.60	100.00

CUMULATIVE FLOATS WEIGHT PERCENT



POINTS PLOTTED

X	Y
17	1
64	3
79	4
85	5
87	5
89	6
99	12

CUMULATIVE FLOATS WEIGHT PERCENT

100 90 80 70 60 50 40 30 20 10

CUMULATIVE FLOATS WEIGHT PERCENT

100 \* 90 \* 80 \* 70 \* 60 \* 50 \* 40 \* 30 \* 20 \* 10 \*

1.3

X

X

1.4

X

SPECIFIC GRAVITY

X

1.5

X

1.6

X

1.7

POINTS PLOTTED

X	Y
17	10
64	15
79	20
85	25
87	30
89	40



COMPO NUMBER- 4093

DRILL HOLE NUMBER- 1758

SEAM NUMBER- 471B-219

## FLotation RESULTS

KERUSENE 0.75

FROTHER 0.15

P4 P7

PRODUCT	WEIGHT (GMS)	WEIGHT %	ASSAY		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	288.	88.9	13.0	8.0	57.1	96.9
TAILS	36.	11.1	78.1	0.0	42.9	3.1
CALC. HEAD	324.	100.0	20.2		100.0	100.0

KERUSENE 0.90

FROTHER 0.20

PRODUCT	WEIGHT (GMS)	WEIGHT %	ASSAY		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	290.	90.3	11.1	7.5	57.5	97.3
TAILS	31.	9.7	76.6	0.0	42.5	2.7
CALC. HEAD	321.	100.0	17.4		100.0	100.0

1758

TABLE 1

WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

TABLE 1

## WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

SG	WT. (GMS.)	WT. %	CUM.WT. %	FRACTION ASH %	ASH WT. OF TOT.	CUM.WT. %	CUM.FLTS. ASH	SINKS WT. %	ASH	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	277.	6.85	6.85	3.20	0.22	0.22	3.20	47.64	93.15	51.14	3.20	3.42	8.5	
30-1.35	254.	6.28	13.13	6.10	0.38	0.60	4.59	47.25	85.87	54.39	6.10	9.99	8.0	
35-1.40	174.	4.30	17.43	10.40	0.45	1.05	6.02	46.80	82.57	56.68	10.40	15.28	7.0	
40-1.45	148.	3.66	21.09	13.20	0.48	1.53	7.27	46.37	78.91	58.70	13.20	19.26	4.5	
45-1.50	211.	5.22	26.30	19.10	1.00	2.53	9.61	45.33	73.70	61.50	19.10	23.70	3.5	
50-1.60	263.	6.50	32.81	20.20	1.31	3.84	11.71	44.01	67.19	65.50	20.20	29.55	2.5	
100 SINK	2718.	67.19	100.00	65.50	44.01	47.85	47.85	0.00	0.00	0.0	65.50	66.40	0.0	

FOR OPTIMUM RECOVERIES

TABLE 2

FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAF	RECOVERY		AND ASH CALCULATIONS		FRAI	FRI	AP
		A	R	FR	FAR			
0.1463	0.0162	4.0	10.7	0.0899	0.0036	0.0198	.236	8.4
0.1463	0.0162	6.0	17.4	0.1456	0.0087	0.0250	.292	8.6
0.1463	0.0162	8.0	22.7	0.1904	0.0152	0.0315	.337	9.3
0.1463	0.0162	10.0	27.4	0.2300	0.0230	0.0392	.376	10.4
0.1463	0.0162	12.0	33.7	0.2822	0.0339	0.0501	.429	11.7
0.1463	0.0162	14.0	39.6	0.3316	0.0464	0.0627	.478	13.1
0.1463	0.0162	16.0	45.2	0.3789	0.0606	0.0769	.525	14.6
0.1463	0.0162	18.0	50.6	0.4239	0.0763	0.0925	.570	16.2
0.1463	0.0162	20.0	55.7	0.4668	0.0934	0.1096	.613	17.9

COMPO NUMBER- W793

DRILL HOLE NUMBER- 1758

SEAM NUMBER- R7(Brd) 8-219

DATA  
SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MFSH	4187.	83.8	47.9
-28MFSH	879.	16.2	17.4
FEED	4996.	100.0	<u>42.9</u>

TABLE 3

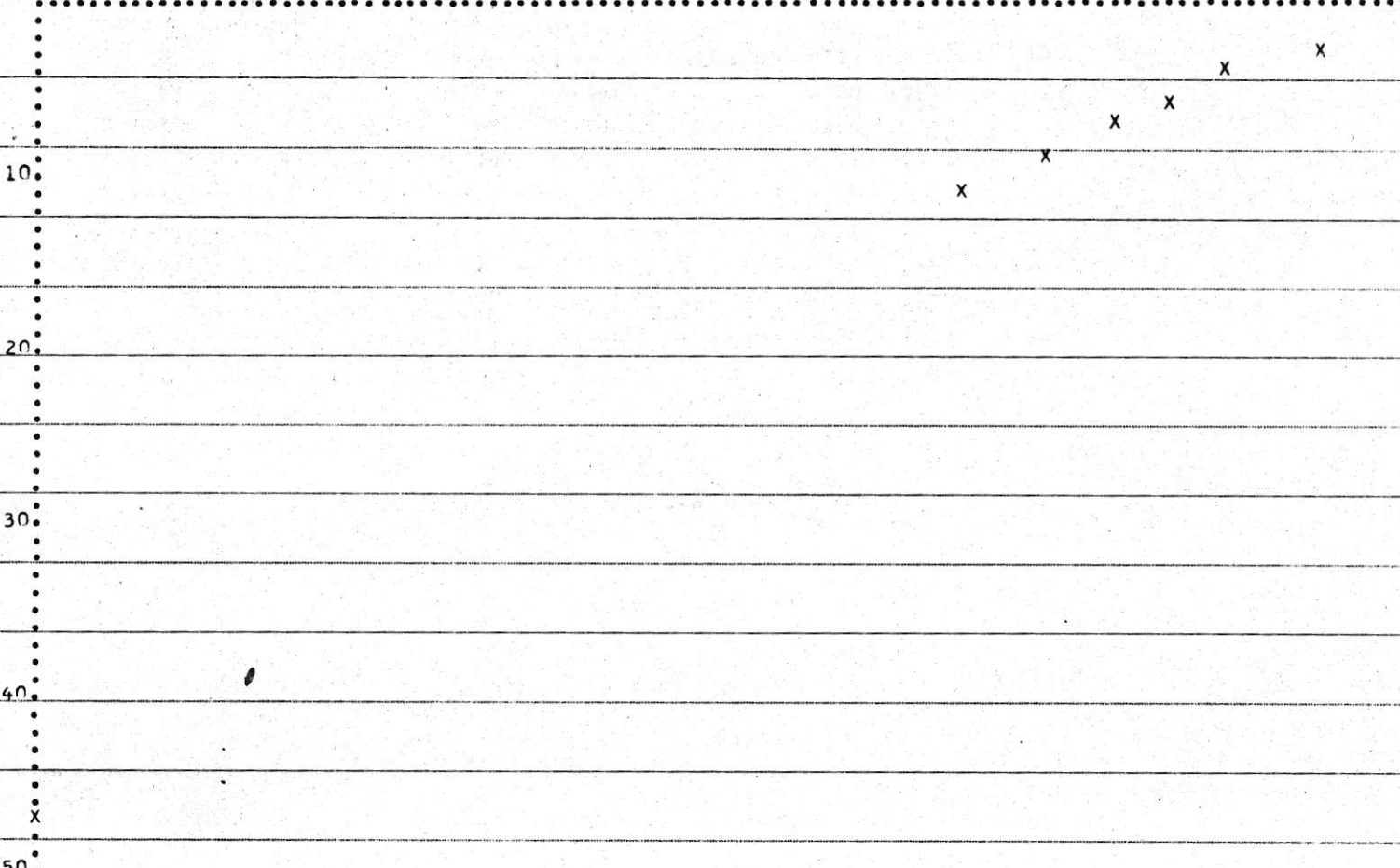
AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	11.10	90.34		14.63	43.45
PLUS 28	8.00	27.71	1.47	19.04	56.55
COMBINED	8.50	33.67		33.67	100.00
FLOTATION	11.10	90.34		14.63	42.07
PLUS 28	8.59	24.04	1.48	20.15	57.93
COMBINED	9.00	34.78		34.78	100.00
FLOTATION	11.10	90.34		14.63	40.76
PLUS 28	9.19	25.37	1.49	21.26	59.24
COMBINED	<u>9.50</u>	<u>35.89</u>		35.89	100.00
FLOTATION	11.10	90.34		14.63	39.43
PLUS 28	9.79	26.82	1.51	22.47	67.57
COMBINED	10.00	37.10		37.10	100.00

CUMULATIVE FLOATS WEIGHT PERCENT

100 90 80 70 60 50 40 30 20 10

CUMULATIVE FLOATS WEIGHT PERCENT

100 \* 90 \* 80 \* 70 \* 60 \* 50 \* 40 \* 30 \* 20 \* 10 \*



ASH PERCENT

POINTS PLOTTED

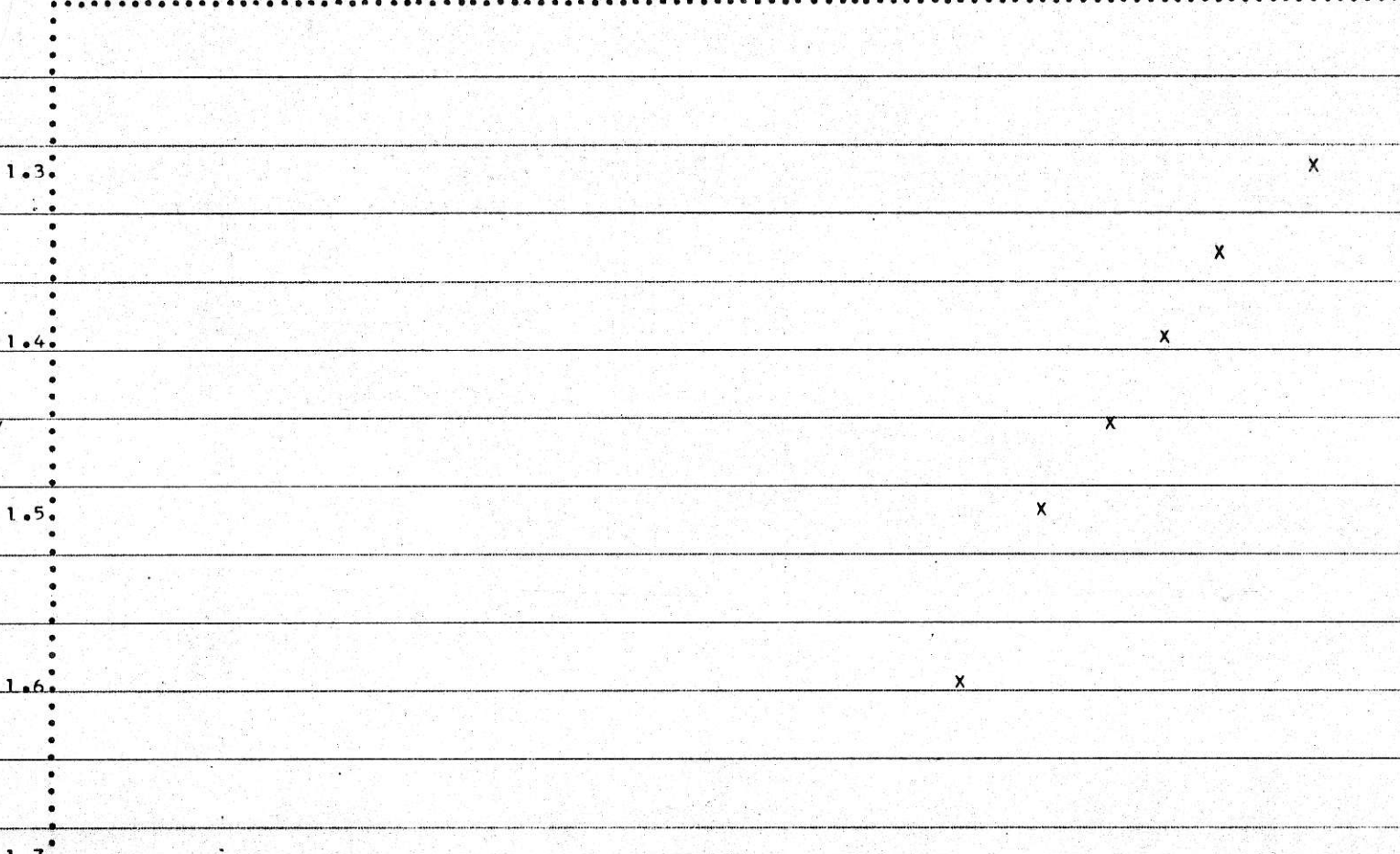
X	Y
6	3
13	4
17	6
21	7
26	9
32	11
99	47

CUMULATIVE FLOATS WEIGHT PERCENT

100 90 80

CUMULATIVE FLOATS WEIGHT PERCENT

100 \* 90 \* 80 \* 70 \* 60 \* 50 \* 40 \* 30 \* 20 \* 10 \*



SPECIFIC GRAVITY

1.7 \* POINTS PLOTTED

X	Y
6	10
13	15
17	20
21	25
26	30
32	40