

3A-4

iv) Washability Tests

**CONFIDENTIAL**

BRANCH  
REPORT

00 702

COMPO NUMBER-- 29

DRILL. HOLE NUMBER-- 1912

SEAM NUMBER-- 4 64330-35

FLOTATION RESULTS

PRODUCT	KEROSENE WEIGHT (GMS)	.90 WEIGHT %	FROTHER .20		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL.
CONCENTRATE	248.0	75.4	9.3	6.5	38.4	83.6
TAILS	81.0	24.6	45.6	1.0	61.6	16.4
CALC. HEAD	329.	100.0	18.2		100.0	100.0

## FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAP	RECOVERY AND ASH CALCULATIONS						
		A	R	FR	FAR	FRAI	FRI	AP
0.0986	0.0092	4.0	30.6	0.2663	0.0107	0.0198	.365	5.4
0.0986	0.0092	6.0	54.9	0.4774	0.0286	0.0378	.576	6.6
0.0986	0.0092	8.0	65.2	0.5670	0.0454	0.0545	.666	8.2
0.0986	0.0092	10.0	71.4	0.6209	0.0621	0.0713	.719	9.9
0.0986	0.0092	12.0	77.1	0.6702	0.0804	0.0896	.769	11.7
0.0986	0.0092	14.0	82.1	0.7141	0.1000	0.1091	.813	13.4
0.0986	0.0092	16.0	86.6	0.7525	0.1204	0.1296	.851	15.2
0.0986	0.0092	18.0	90.4	0.7855	0.1414	0.1505	.884	17.0
0.0986	0.0092	20.0	93.5	0.8130	0.1626	0.1718	.912	18.8

TABLE 1

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

SF	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	766.	19.88	19.88	3.30	0.66	0.66	3.30	29.12	80.12	36.35	3.30	9.94	7.5	
.30-1.35	966.	25.07	44.95	6.50	1.63	2.29	5.08	27.49	55.05	49.94	6.50	32.42	3.5	
.35-1.40	438.	11.37	56.32	10.40	1.18	3.47	6.16	26.31	43.68	60.23	10.40	50.64	1.0	
.40-1.45	175.	4.54	60.86	16.40	0.74	4.21	6.92	25.56	39.14	65.32	16.40	58.59	1.0	
.45-1.50	101.	2.62	63.48	21.10	0.55	4.77	7.51	25.01	36.52	68.49	21.10	62.17	1.0	
.50-1.60	117.	3.04	66.52	27.60	0.84	5.60	8.42	24.17	33.48	72.20	27.60	65.00	1.0	
.60 SINK	1290.	33.48	100.00	72.20	24.17	29.78	29.78	0.00	0.00	0.0	72.20	83.26	0.0	

COMPO NUMBER--

29

DRILL HOLE NUMBER-- 1912

SEAM NUMBER--

64330-35

## DATA

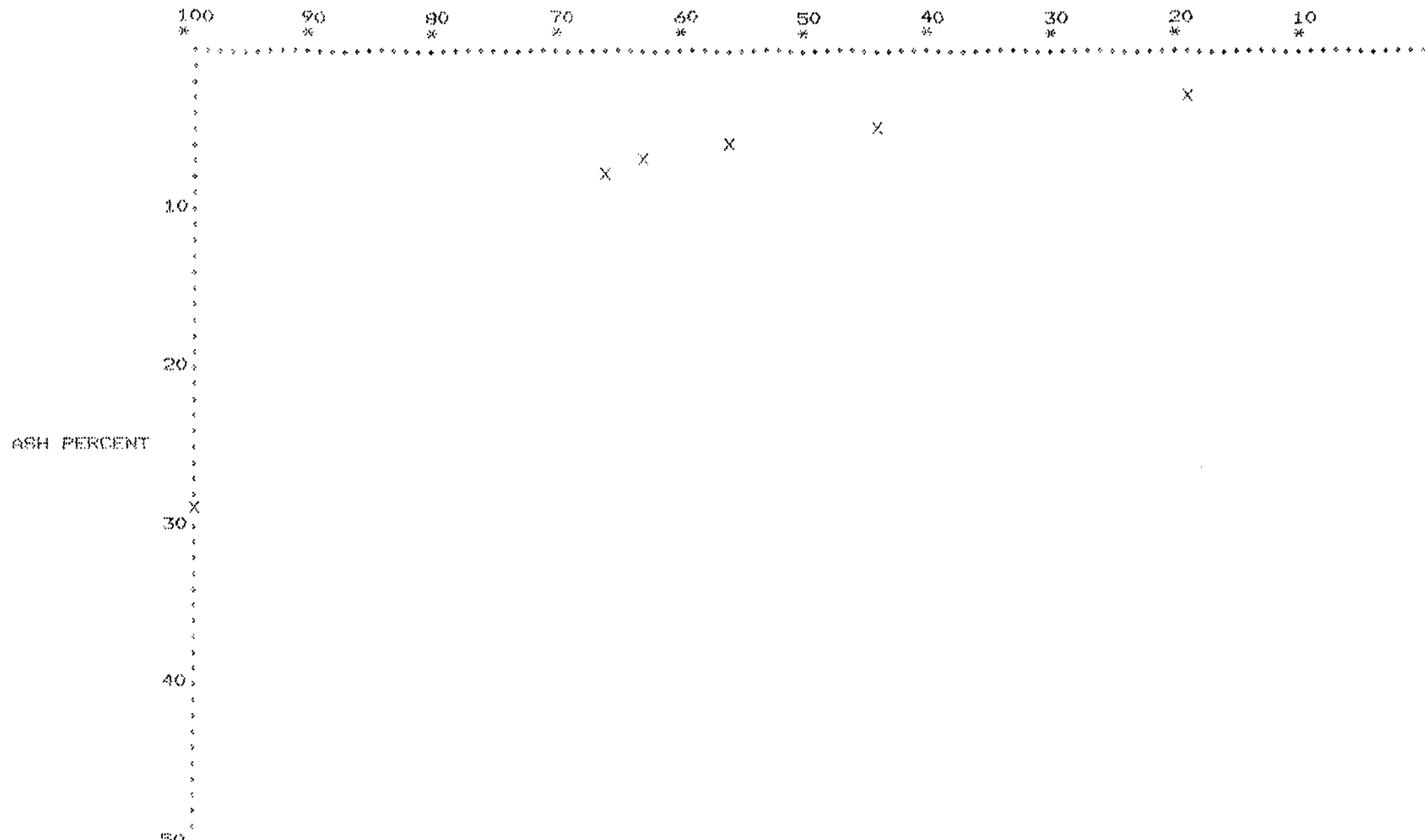
## SIZE DISTRIBUTION

SIZE	WEIGHT (GMS)	WEIGHT (%)	ASH (%)
+28MESH	3956.	86.9	29.8
--28MESH	595.	13.1	18.2
FEED	4551.	100.0	28.3

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	9.30	75.38		9.86	14.58
PLUS 28	8.38	66.41	1.60	57.73	85.42
COMBINED	8.50	67.58		67.58	100.00
FLOTATION	9.30	75.38		9.86	14.25
PLUS 28	8.95	68.22	+1.60	59.30	85.75
COMBINED	9.00	69.15		69.15	100.00
FLOTATION	9.30	75.38		9.86	13.94
PLUS 28	9.53	70.00	+1.60	60.85	86.06
COMBINED	9.50	70.71		70.71	100.00
FLOTATION	9.30	75.38		9.86	13.65
PLUS 28	10.11	71.74	+1.60	62.36	86.35
COMBINED	10.00	72.22		72.22	100.00

CUMULATIVE FLOATS WEIGHT PERCENT

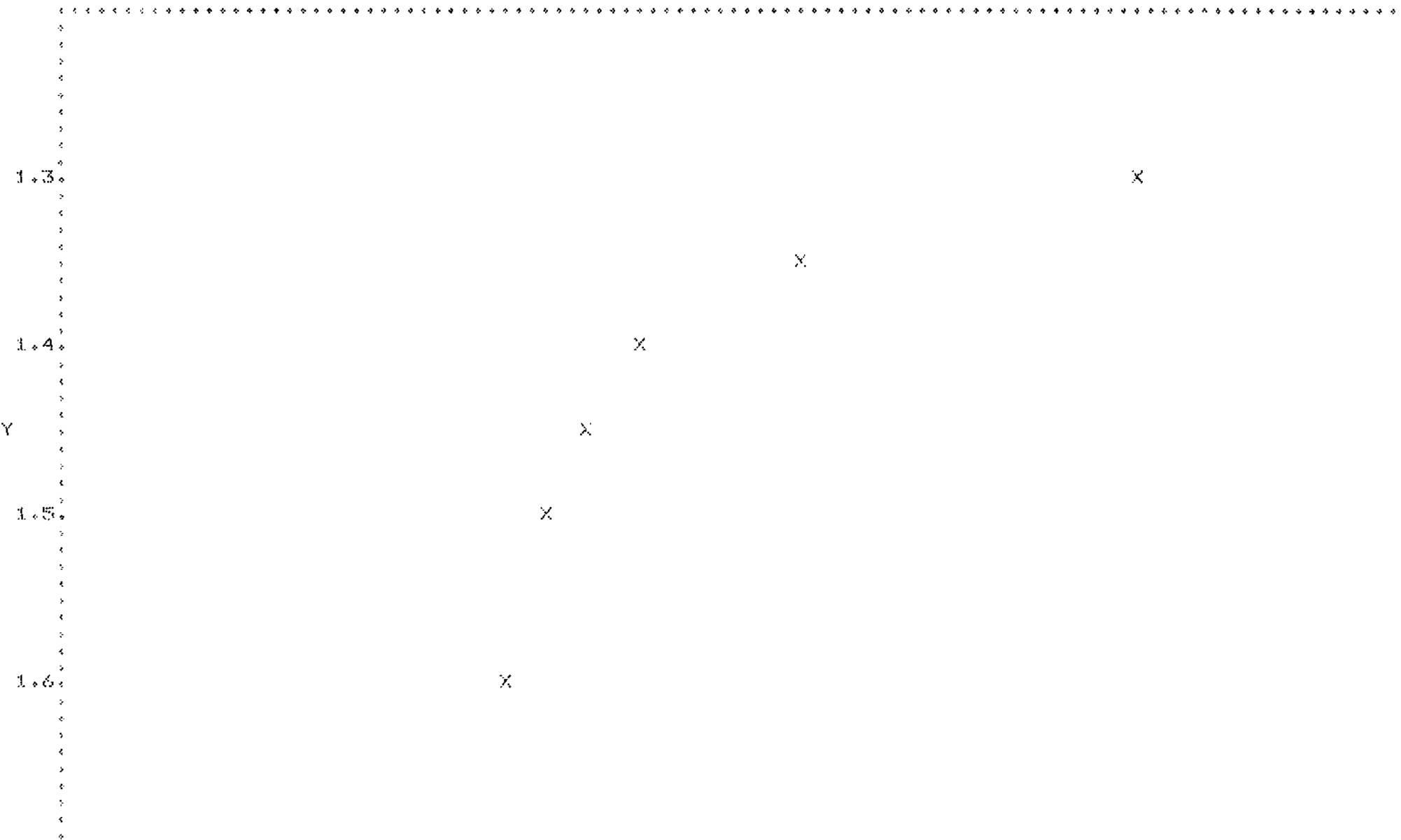


POINTS PLOTTED

X	Y
19	29
44	28
56	16
60	15
63	14
66	13
99	29

CUMULATIVE FLOATS WEIGHT PERCENT

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



SPECIFIC GRAVITY

1.7: POINTS PLOTTED

X	Y
19	10
44	15
56	20
60	25
63	30
66	40

COMPO NUMBER-- 30

DRILL HOLE NUMBER-- 1912

SEAM NUMBER-- 2 64338--42

\*\* NO FLOTATION RUNS \*\*

HEAD SAMPLE

WEIGHT %	ASSAY	
	ASH	FSI
100.0	17.0	6.0



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	932.	33.83	33.83	3.70	1.25	1.25	3.70	12.29		66.17	18.58	3.70	16.91	8.5
1.30-1.35	649.	23.56	57.39	7.20	1.70	2.95	5.14	10.60		42.61	24.87	7.20	45.61	7.5
1.35-1.40	471.	17.10	74.48	12.30	2.10	5.05	6.78	8.50		25.52	33.29	12.30	65.93	5.0
1.40-1.45	218.	7.91	82.40	16.90	1.34	6.39	7.75	7.16		17.60	40.66	16.90	78.44	2.0
1.45-1.50	92.	3.34	85.73	21.60	0.72	7.11	8.29	6.44		14.27	45.13	21.60	84.07	1.0
1.50-1.60	72.	2.61	88.35	28.30	0.74	7.85	8.88	5.70		11.65	48.90	28.30	87.04	1.0
1.60 SYNK	321.	11.65	100.00	48.90	5.70	13.55	13.55	0.00		0.00	0.0	48.90	94.17	1.0

FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAF	RECOVERY AND ASH CALCULATIONS						
		A	R	FR	FAR	FRAI	FRI	AF
0.0	0.0	4.0	39.4	0.3394	0.0144	0.0144	.359	4.0
0.0	0.0	6.0	67.3	0.6138	0.0368	0.0368	.614	6.0
0.0	0.0	8.0	84.3	0.7688	0.0615	0.0615	.769	8.0
0.0	0.0	10.0	92.6	0.8444	0.0844	0.0844	.844	10.0
0.0	0.0	12.0	97.9	0.8928	0.1071	0.1071	.893	12.0

COMPO NUMBER- 30

DRILL HOLE NUMBER- 1912

SEAM NUMBER-

64338-42

## DATA

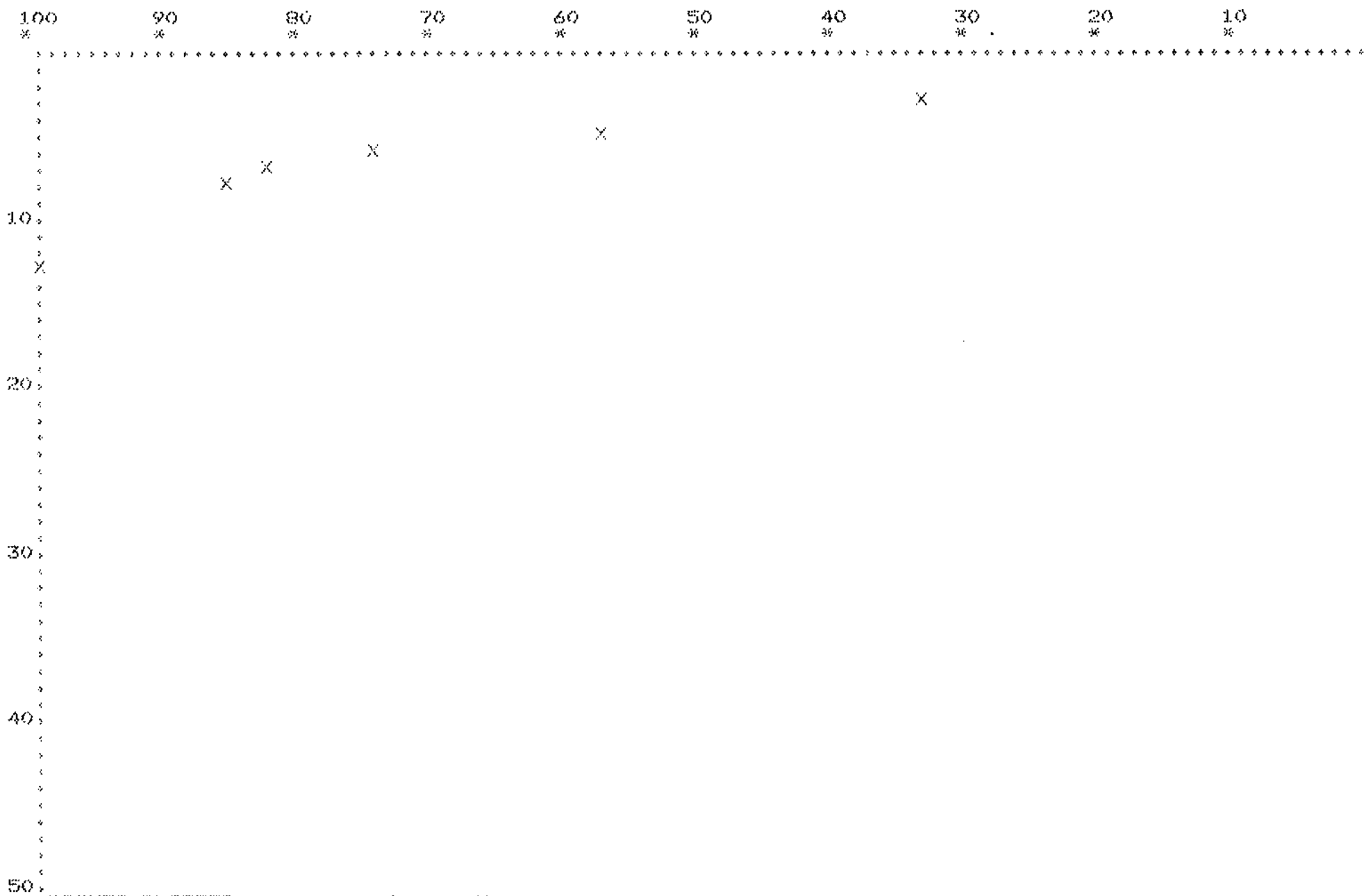
## SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MESH	2776.	91.2	13.5
-28MESH	268.	8.8	17.0
FEED	3044.	100.0	13.9

TABLE 3

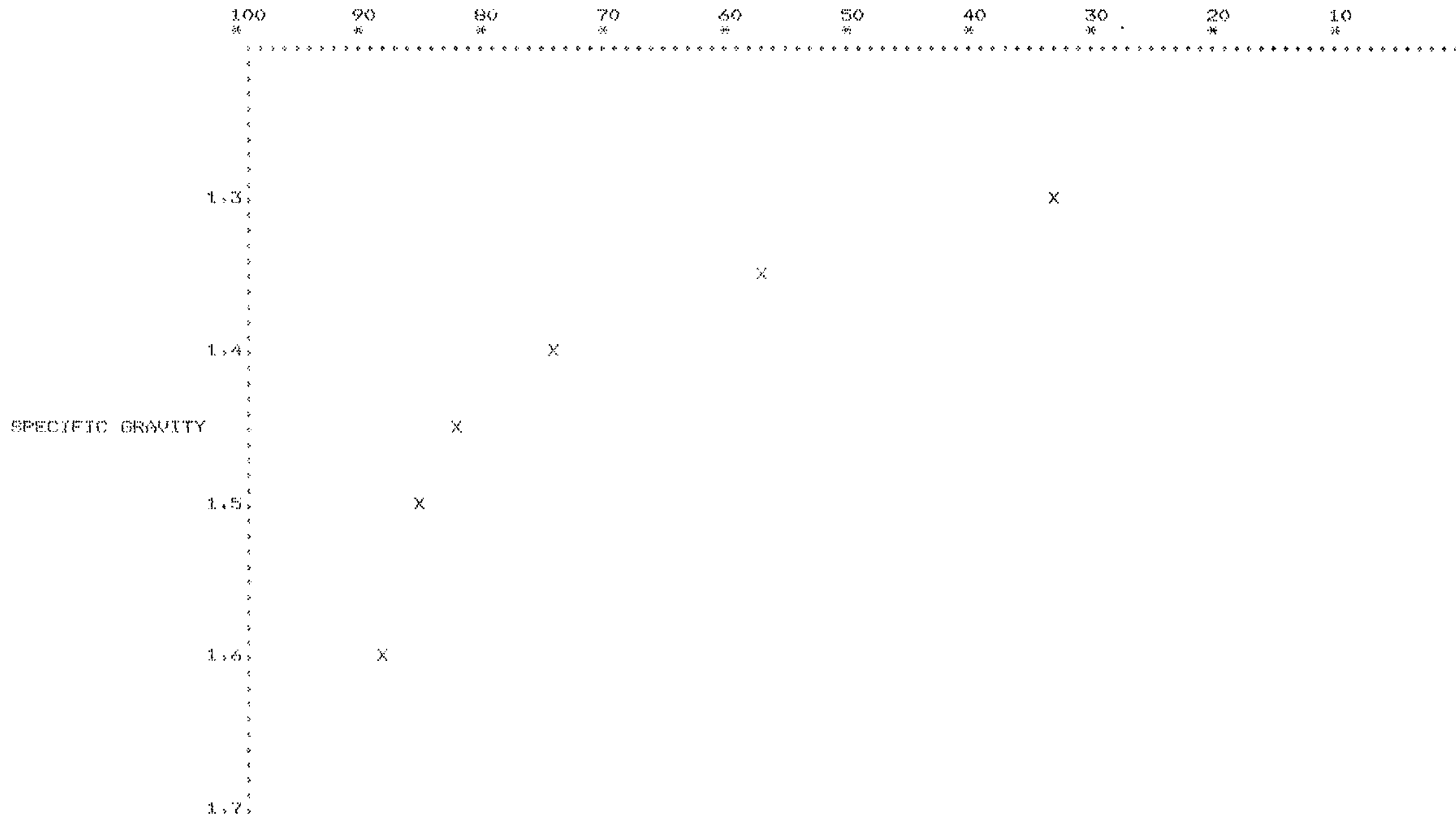
AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	9.32	90.12	+1.60	82.19	100.00
COMBINED	8.50	82.19		82.19	100.00
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	9.87	92.14	+1.60	84.03	100.00
COMBINED	9.00	84.03		84.03	100.00
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	10.42	93.94	+1.60	85.67	100.00
COMBINED	9.50	85.67		85.67	100.00
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	10.97	95.52	+1.60	87.11	100.00
COMBINED	10.00	87.11		87.11	100.00

CUMULATIVE FLOATS WEIGHT PERCENT



X	Y
33	3
57	5
74	6
82	7
85	8
88	8
99	13

CUMULATIVE FLOATS WEIGHT PERCENT



POINTS PLOTTED

X	Y
33	10
57	15
74	20
82	25
85	30
88	40

COMPD NUMBER-- 32

DRILL HOLE NUMBER-- 1908

SEAM NUMBER-- 50 64411-15

\*\* NO FLOTATION RUNS \*\*

HEAD SAMPLE

WEIGHT %	ASSAY	
	ASH	FSI
100.0	9.9	8.5

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	289.	16.74	16.74	2.90	0.49	0.49	2.90	20.33	83.26	24.42	2.90	8.37	8.0	
1.30-1.35	433.	25.09	41.83	7.40	1.86	2.34	5.60	18.48	58.17	31.76	7.40	29.29	2.5	
1.35-1.40	291.	16.86	58.69	12.30	2.07	4.42	7.52	16.40	41.31	39.70	12.30	50.26	2.0	
1.40-1.45	128.	7.42	66.11	18.30	1.36	5.77	8.73	15.04	33.89	44.39	18.30	62.40	2.0	
1.45-1.50	94.	5.45	71.55	23.30	1.27	7.04	9.84	13.78	28.45	48.42	23.30	68.83	1.5	
1.50-1.60	153.	8.85	80.42	29.70	2.63	9.67	12.03	11.14	19.58	56.90	29.70	75.98	1.0	
1.60 SINK	338.	19.58	100.00	56.90	11.14	20.82	20.82	0.0	0.00	0.0	56.90	90.21	1.0	

## FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRF/AF	RECOVERY AND ASH CALCULATIONS						
		A	R	FR	FAR	FRAI	FRI	AF
0.0	0.0	4.0	27.2	0.2459	0.0098	0.0098	.246	4.0
0.0	0.0	6.0	45.6	0.4130	0.0248	0.0248	.413	6.0
0.0	0.0	8.0	61.9	0.5600	0.0448	0.0448	.560	8.0
0.0	0.0	10.0	72.3	0.6540	0.0654	0.0654	.654	10.0
0.0	0.0	12.0	80.3	0.7268	0.0872	0.0872	.727	12.0
0.0	0.0	14.0	87.0	0.7876	0.1103	0.1103	.788	14.0
0.0	0.0	16.0	92.4	0.8365	0.1338	0.1338	.837	16.0
0.0	0.0	18.0	96.5	0.8734	0.1572	0.1572	.873	18.0
0.0	0.0	20.0	99.3	0.8983	0.1797	0.1797	.898	20.0



COMFO NUMBER-- 32

DRILL HOLE NUMBER-- 1908

SEAM NUMBER-- 64411-13

## DATA

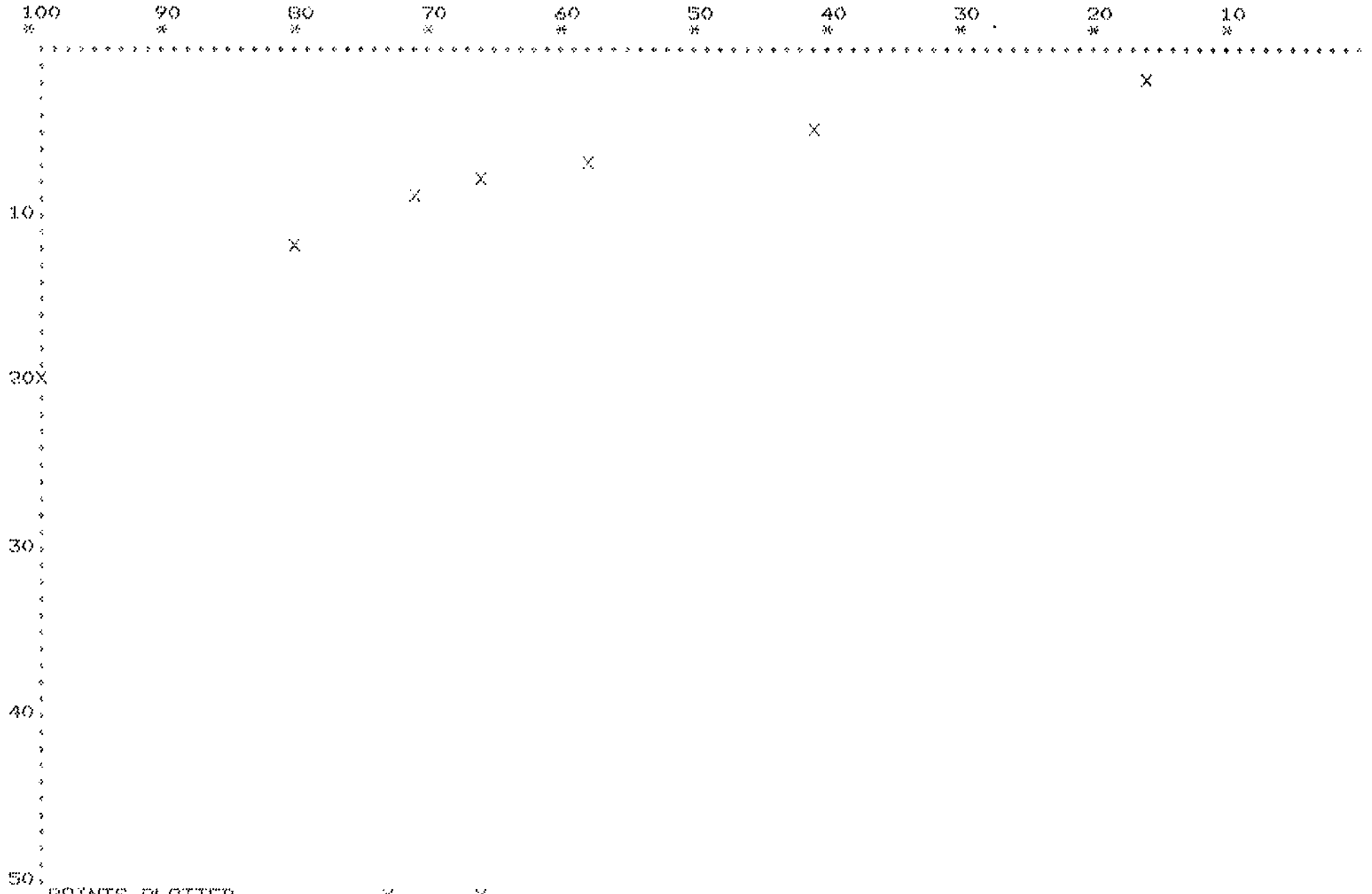
## SIZE DISTRIBUTION

SIZE	WEIGHT (GMS)	WEIGHT (%)	ASH (%)
+28MESH	1743.	90.5	20.8
-28MESH	183.	9.5	9.9
FEED	1926.	100.0	19.8

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.O.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	9.39	69.49	1.48	62.89	100.00
COMBINED	8.50	62.89		62.89	100.00
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	9.94	72.02	1.51	65.18	100.00
COMBINED	9.00	65.18		65.18	100.00
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	10.50	74.43	1.53	67.36	100.00
COMBINED	9.50	67.36		67.36	100.00
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	11.05	76.71	1.56	69.42	100.00
COMBINED	10.00	69.42		69.42	100.00

CUMULATIVE FLOATS WEIGHT PERCENT



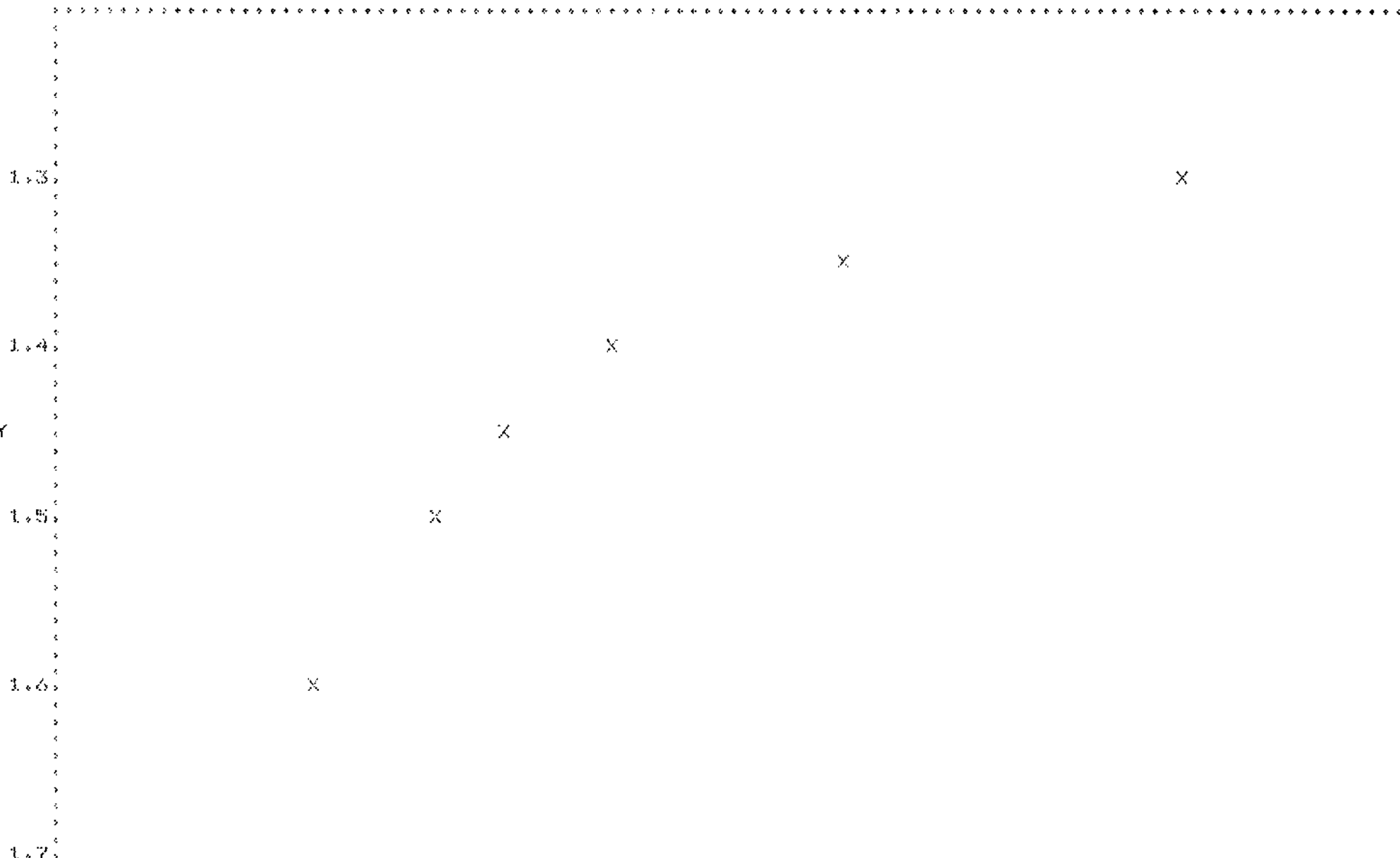
POINTS PLOTTED

X	Y
16	20
41	18
58	13
66	11
71	10
80	12
99	20

ASH PERCENT

CUMULATIVE FLOATS WEIGHT PERCENT

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



SPECIFIC GRAVITY

POINTS PLOTTED

X	Y
16	10
41	15
58	20
66	25
71	30
80	40

COMPO NUMBER-- 33

DRILL HOLE NUMBER-- 1908

SEAM NUMBER-- 64417-24

*5 lower*

FLOTATION RESULTS

PRODUCT	KEROSENE WEIGHT (GMS)	.90 WEIGHT %	FROTHER .20 ASSAY		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	297.0	90.5	5.9	6.5	62.2	93.2
TAILS	31.0	9.5	34.3	1.0	37.8	6.8
CALC. HEAD	328.	100.0	8.6		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 ASH WT. %	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	417.	10.88	10.88	2.50	0.27	0.27	2.50	15.48	89.12	17.37	2.50	5.44	7.5
1.30-1.35	1360.	35.50	46.38	5.50	1.95	2.22	4.80	13.53	53.62	25.24	5.50	28.63	1.5
1.35-1.40	930.	24.28	70.66	9.60	2.33	4.56	6.45	11.20	29.34	38.17	9.60	58.52	1.0
1.40-1.45	274.	7.15	77.81	15.40	1.10	5.66	7.27	10.10	22.19	45.51	15.40	74.24	1.0
1.45-1.50	156.	4.07	81.88	20.70	0.84	6.50	7.94	9.26	18.12	51.09	20.70	79.85	1.0
1.50-1.60	241.	6.29	88.18	25.70	1.62	8.12	9.20	7.64	11.82	64.60	25.70	85.03	1.0
1.60 SINK	453.	11.82	100.00	64.60	7.64	15.75	15.75	0.00	0.00	0.0	64.60	94.09	0.5

## FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAP	RECOVERY		AND ASH CALCULATIONS		FRAI	FRI	AF
		A	R	FR	FAR			
0.1221	0.0072	4.0	34.3	0.2968	0.0119	0.0191	.419	4.6
0.1221	0.0072	6.0	64.8	0.5606	0.0336	0.0408	.683	6.0
0.1221	0.0072	8.0	82.3	0.7118	0.0569	0.0641	.834	7.7
0.1221	0.0072	10.0	91.5	0.7913	0.0791	0.0863	.913	9.5
0.1221	0.0072	12.0	97.5	0.8432	0.1012	0.1084	.965	11.2
0.1221	0.0072	14.0	***	0.8672	0.1214	0.1286	.989	13.0

COMPO NUMBER-- 33

DRILL HOLE NUMBER-- 1908

SEAM NUMBER-- 64417-24

## DATA

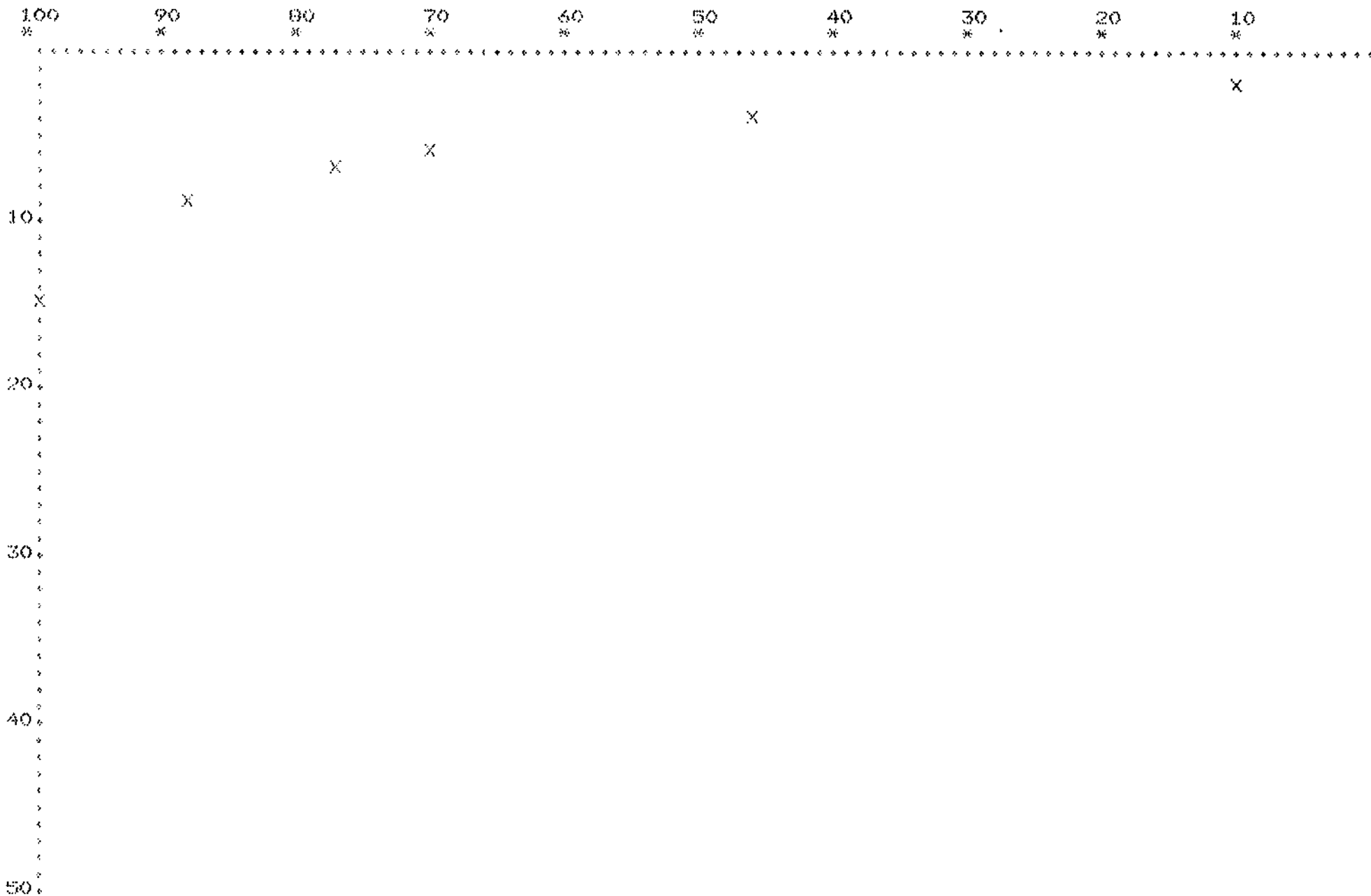
## SIZE DISTRIBUTION

SIZE	WEIGHT (GMS)	WEIGHT (%)	ASH (%)
+28MESH	3870.	86.5	15.8
-28MESH	603.	13.5	8.6
FEED	4473.	100.0	14.8

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	5.90	90.55		12.21	13.97
PLUS 28	8.91	86.87	1.58	75.16	86.03
COMBINED	8.50	87.37		87.37	100.00
FLOTATION	5.90	90.55		12.21	13.63
PLUS 28	9.48	89.38	+1.60	77.33	86.37
COMBINED	9.00	89.54		89.54	100.00
FLOTATION	5.90	90.55		12.21	13.34
PLUS 28	10.06	91.69	+1.60	79.33	86.66
COMBINED	9.50	91.54		91.54	100.00
FLOTATION	5.90	90.55		12.21	13.08
PLUS 28	10.64	93.73	+1.60	81.09	86.92
COMBINED	10.00	93.30		93.30	100.00

CUMULATIVE FLOATS WEIGHT PERCENT

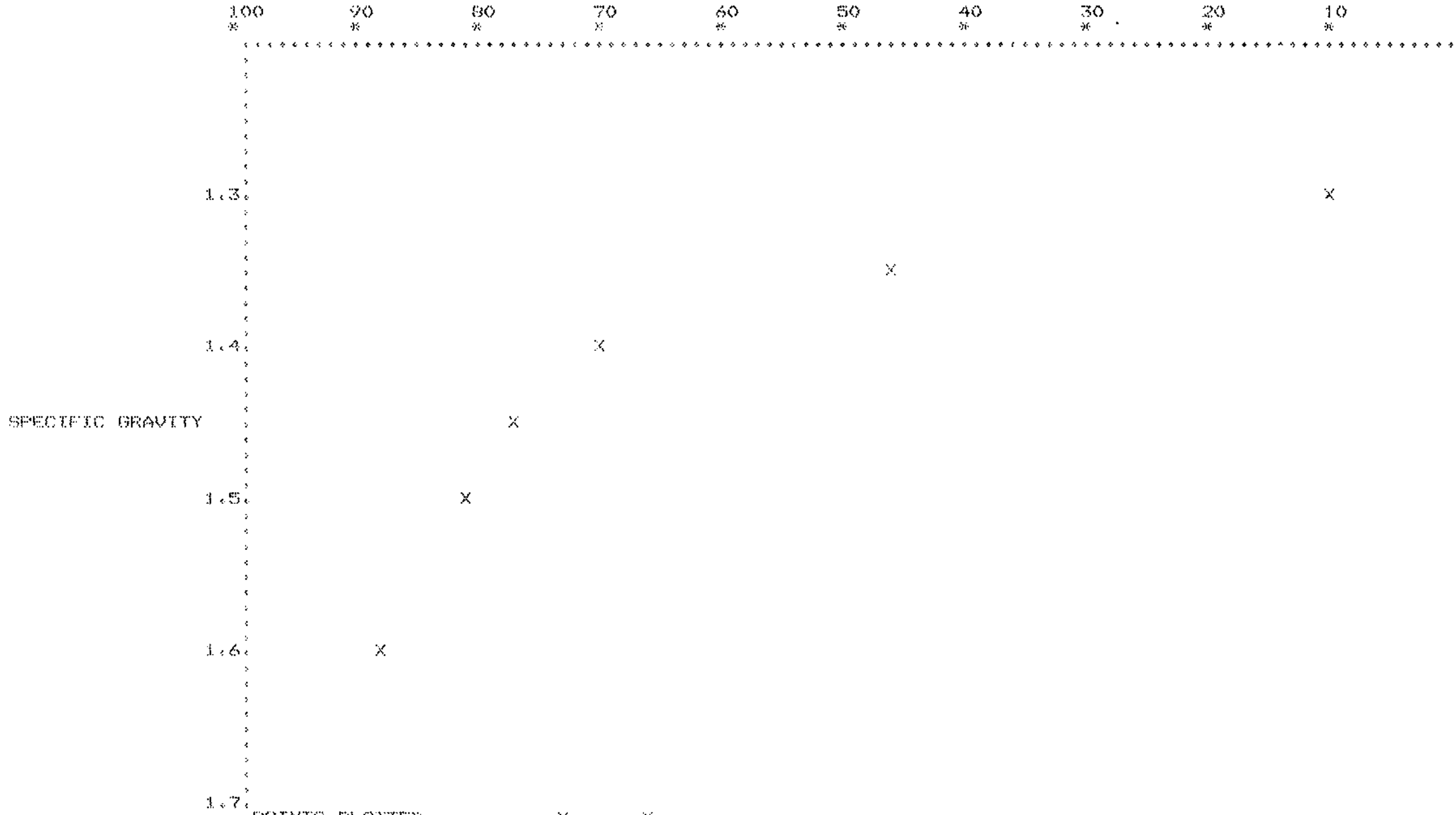


POINTS PLOTTED

X	Y
10	2
46	4
70	6
77	7
81	7
88	9
99	15



CUMULATIVE FLOATS WEIGHT PERCENT



POINTS PLOTTED

X	Y
10	10
46	15
70	20
77	25
81	30
88	40

COMP-D NUMBER-- 34

DRILL HOLE NUMBER-- 1908

SEAM NUMBER-- 40 64427-32

\*\* NO FLOTATION RUNS \*\*

HEAD SAMPLE

WEIGHT %	ASSAY	
	ASH	FSI
100.0	14.0	1.0

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 ASH WT. %	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	133.	8.53	8.53	3.50	0.30	0.30	3.50	13.40	91.47	14.65	3.50	4.26	6.5
1.30-1.35	564.	36.15	44.68	5.70	2.06	2.36	5.28	11.34	55.32	20.49	5.70	26.60	1.0
1.35-1.40	490.	31.41	76.09	9.60	3.02	5.37	7.06	8.32	23.91	34.81	9.60	60.38	1.0
1.40-1.45	195.	12.50	88.59	16.20	2.02	7.40	8.35	6.30	11.41	55.19	16.20	82.34	1.0
1.45-1.50	52.	3.33	91.92	21.60	0.72	8.12	8.83	5.58	8.08	69.05	21.60	90.26	1.0
1.50-1.60	23.	1.47	93.40	23.60	0.35	8.47	9.07	5.23	6.60	79.20	23.60	92.66	1.0
1.60 SINK	103.	6.60	100.00	79.20	5.23	13.70	13.70	0.00	0.00	0.0	79.20	96.70	0.0

FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAP	RECOVERY AND ASH CALCULATIONS						
		A	R	FR	FAR	FRAI	FRI	AP
0.0	0.0	4.0	19.2	0.1695	0.0068	0.0068	.169	4.0
0.0	0.0	6.0	58.6	0.5185	0.0311	0.0311	.518	6.0
0.0	0.0	8.0	65.9	0.7596	0.0608	0.0608	.760	8.0
0.0	0.0	10.0	98.2	0.8684	0.0868	0.0868	.868	10.0
0.0	0.0	12.0	***	0.9071	0.1089	0.1089	.907	12.0

COMPO NUMBER-- 34

DRILL HOLE NUMBER-- 1908

SEAM NUMBER-- 64427-32

DATA

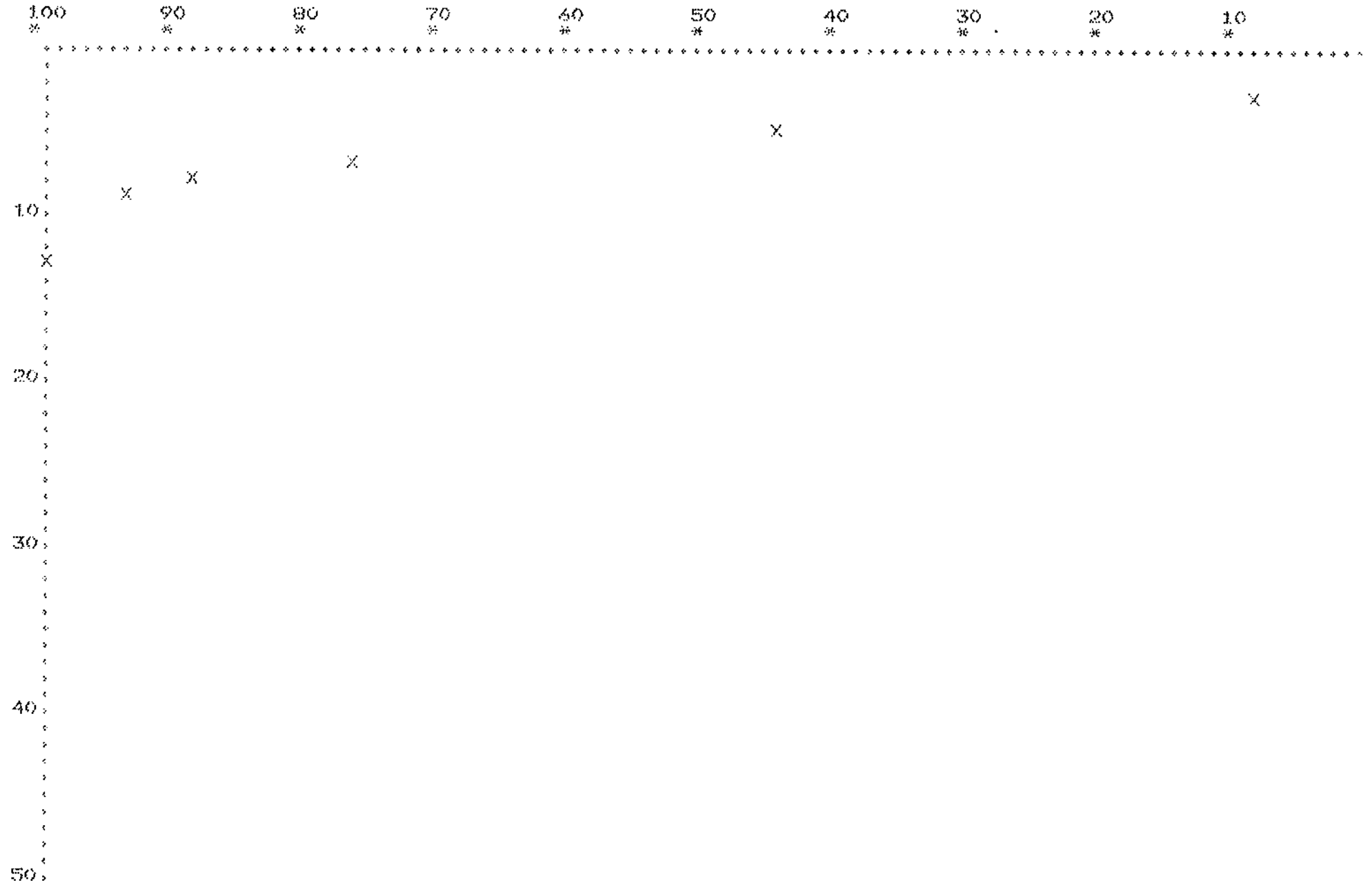
SIZE DISTRIBUTION

SIZE	WEIGHT (GMS)	WEIGHT (%)	ASH (%)
+28MESH	1573.	88.4	13.7
-28MESH	206.	11.6	14.0
FEED	1779.	100.0	13.7

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	9.61	8.53	+1.60	7.54	100.00
COMBINED	8.50	7.54		7.54	100.00
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	10.18	44.68	+1.60	39.51	100.00
COMBINED	9.00	39.51		39.51	100.00
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	10.74	76.09	+1.60	67.28	100.00
COMBINED	9.50	67.28		67.28	100.00
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	11.31	88.59	+1.60	78.33	100.00
COMBINED	10.00	78.33		78.33	100.00

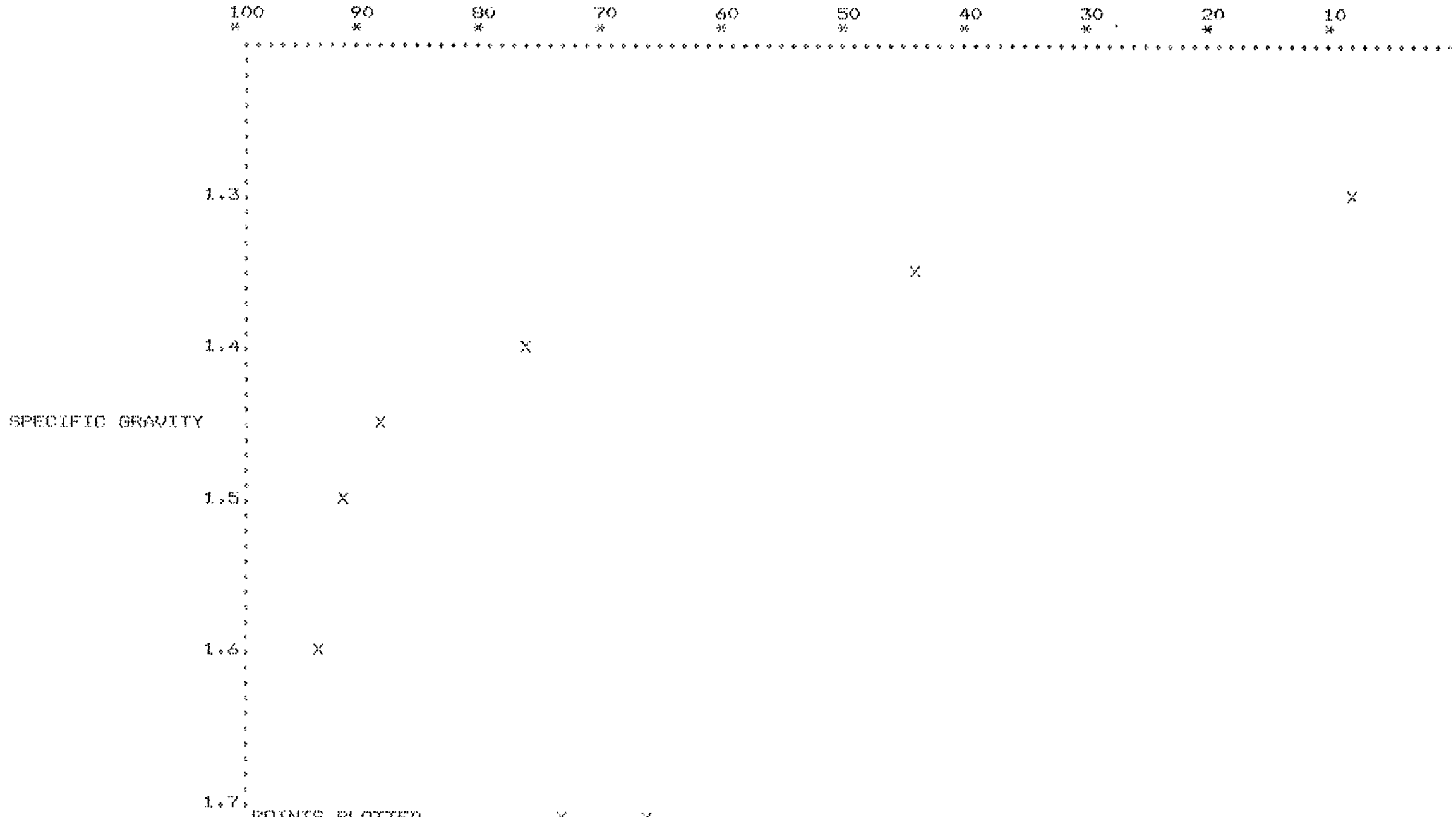
CUMULATIVE FLOATS WEIGHT PERCENT



POINTS PLOTTED

X	Y
0	33
44	35
76	37
88	38
91	39
93	40
99	43

CUMULATIVE FLOATS WEIGHT PERCENT



POINTS PLOTTED

X	Y
8	10
44	15
76	20
88	25
91	30
93	40

COMPO NUMBER-- 35

DRILL HOLE NUMBER-- 1908

SEAM NUMBER-- 9 64434-45

FLOTATION RESULTS

PRODUCT	KEROSENE WEIGHT (GMS)	.90 WEIGHT %	.20 FROTHER		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	302.0	72.1	5.1	6.5	70.9	93.6
TAILS	26.0	7.9	24.3	1.0	29.1	6.4
CALC. HEAD	328.	100.0	6.6		100.0	100.0



TABLE 1

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

SD	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	FST
1.30	1370.	35.35	35.35	2.60	0.92	0.92	2.60	10.87		64.65	16.81	2.60	17.67	6.5
1.30-1.35	920.	23.74	59.09	5.20	1.23	2.15	3.64	9.63		40.92	23.54	5.20	47.21	1.5
1.35-1.40	628.	16.20	75.29	9.40	1.52	3.68	4.88	8.11		24.72	32.82	9.40	67.19	1.0
1.40-1.45	268.	6.91	82.20	13.90	0.96	4.64	5.64	7.15		17.80	40.16	13.90	78.74	1.0
1.45-1.50	144.	3.72	85.91	18.00	0.67	5.31	6.18	6.48		14.09	46.01	18.00	84.06	1.0
1.50-1.60	197.	5.08	91.00	21.40	1.09	6.39	7.03	5.39		9.00	59.90	21.40	88.45	1.0
1.60 SINK	349.	9.00	100.00	59.90	5.39	11.79	11.79	0.00		0.00	0.0	59.90	95.50	0.5

FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAP	RECOVERY		AND ASH CALCULATIONS		FRAI	FRI	AP
		A	R	FR	FAR			
0.1320	0.0067	4.0	64.7	0.5543	0.0222	0.0289	.686	4.2
0.1320	0.0067	6.0	84.8	0.7262	0.0436	0.0503	.858	5.9
0.1320	0.0067	8.0	95.5	0.8183	0.0655	0.0722	.950	7.6
0.1320	0.0067	10.0	***	0.8609	0.0861	0.0928	.993	9.3

COMPO NUMBER-- 35

DRILL HOLE NUMBER-- 1908

SEAM NUMBER-- 64434-45

## DATA

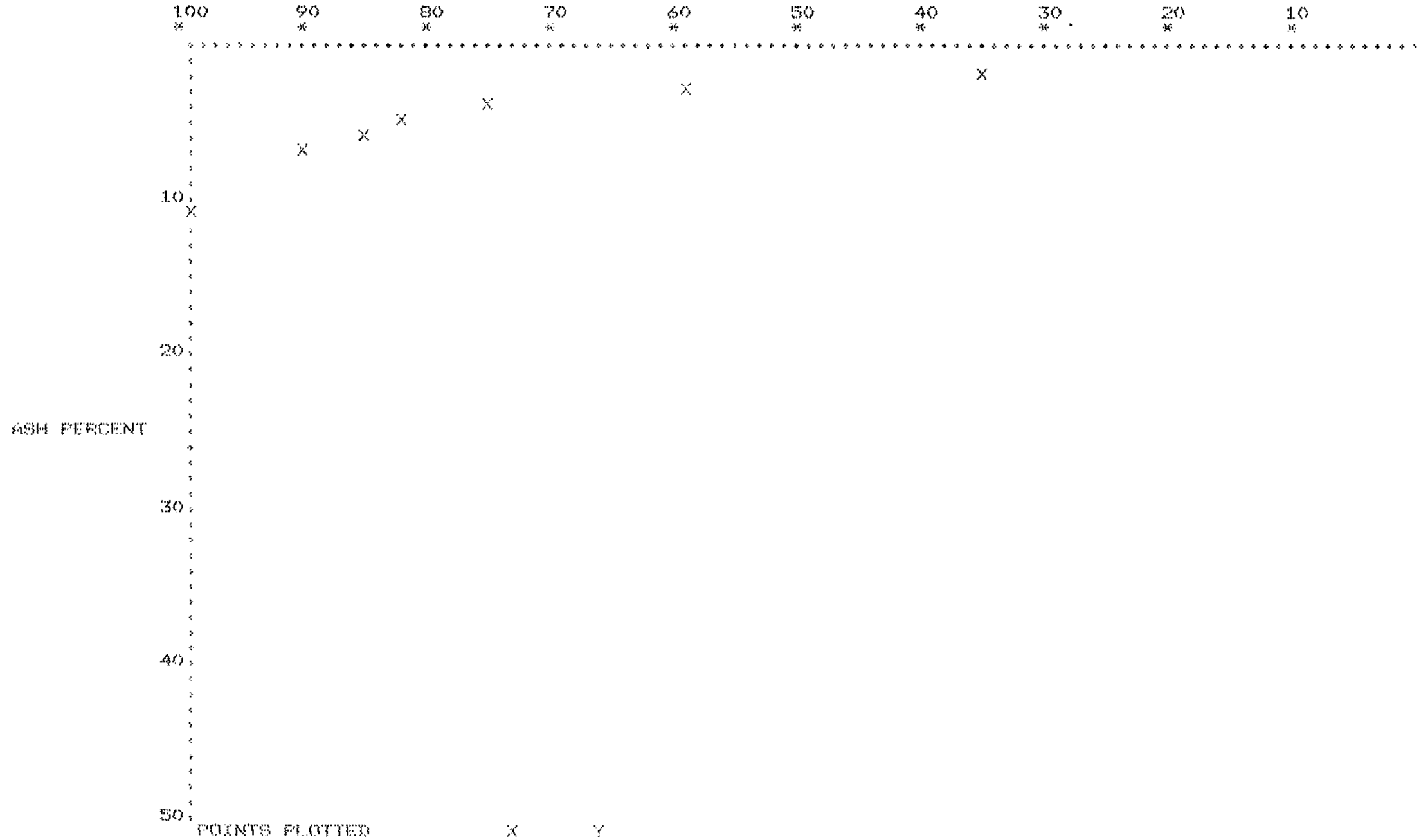
## SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MESH	3902.	85.7	11.8
-28MESH	653.	14.3	6.6
FEED	4555.	100.0	11.0

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	5.10	92.07		13.20	30.36
PLUS 28	9.07	35.35	+1.60	30.28	69.64
COMBINED	8.50	43.48		43.48	100.00
FLOTATION	5.10	92.07		13.20	20.69
PLUS 28	9.65	59.08	+1.60	50.61	79.31
COMBINED	9.00	63.81		63.81	100.00
FLOTATION	5.10	92.07		13.20	16.99
PLUS 28	10.24	75.26	+1.60	64.49	83.01
COMBINED	9.50	77.69		77.69	100.00
FLOTATION	5.10	92.07		13.20	15.79
PLUS 28	10.82	82.20	+1.60	70.41	84.21
COMBINED	10.00	83.61		83.61	100.00

CUMULATIVE FLOATS WEIGHT PERCENT

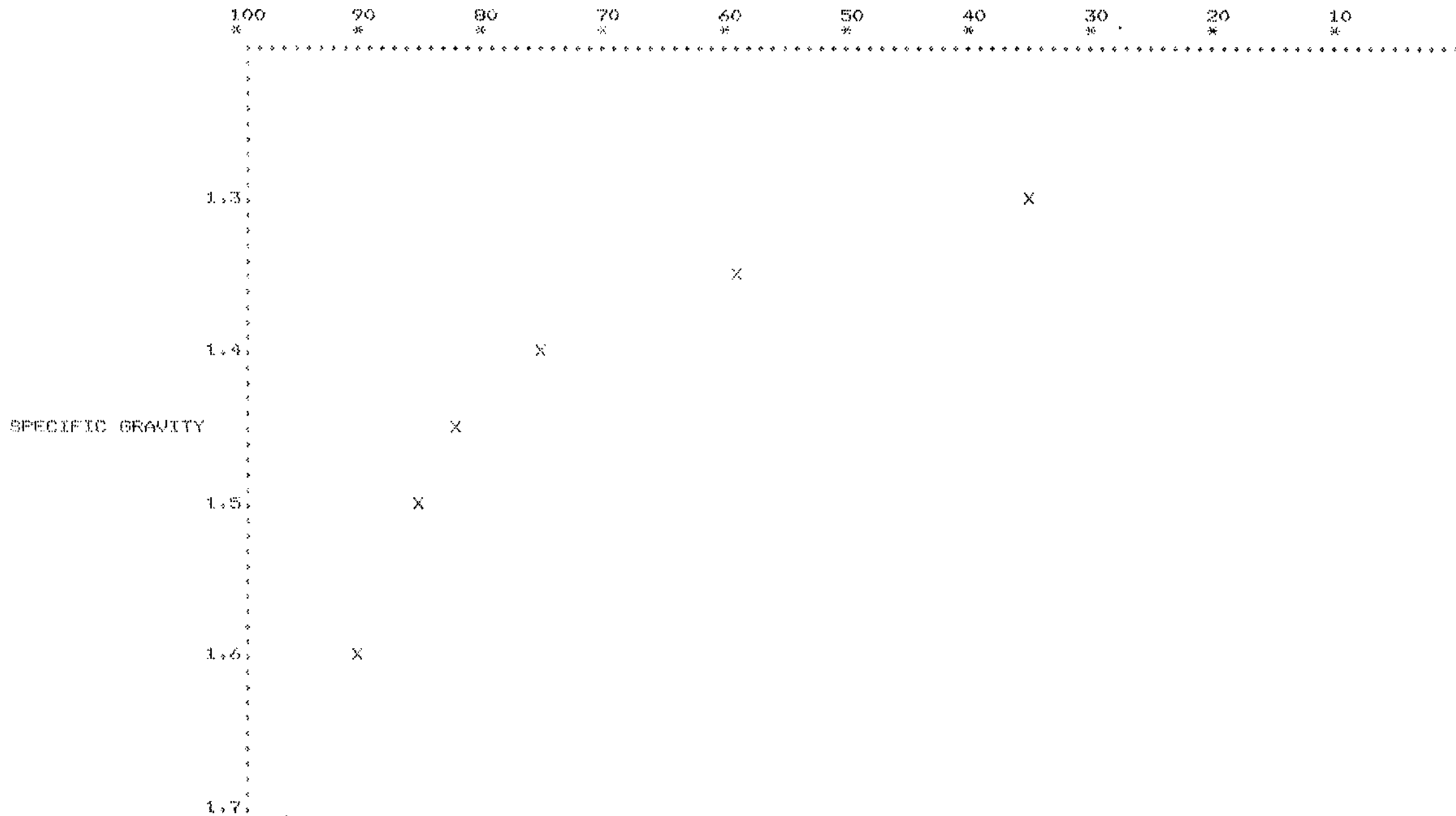


ASH PERCENT

POINTS PLOTTED

X	Y
35	2
59	3
75	4
82	5
85	6
90	7
99	11

CUMULATIVE FLOATS WEIGHT PERCENT



POINTS PLOTTED

X	Y
35	10
59	15
75	20
82	25
85	30
90	40

COMPO NUMBER-- 36

DRILL HOLE NUMBER-- 1908

SEAM NUMBER-- 7 64448-54

\*\*\* NO FLOTATION RUNS \*\*\*

HEAD SAMPLE

WEIGHT %	ASSAY	
	ASH	FSI
100.0	17.5	6.5

COMPO NUMBER-- 36

DRILL HOLE NUMBER-- 1908

SEAM NUMBER-- 7 64448-54

\*\* NO FLOTATION RUNS \*\*

HEAD SAMPLE

WEIGHT %	ASSAY	
	ASH	FSI
100.0	17.5	6.5

TABLE 1

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

SS	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	FST
1.30	461.	21.79	21.79	3.70	0.81	0.81	3.70	25.55		78.21	32.67	3.70	10.89	8.0
1.30-1.35	226.	10.68	32.47	7.40	0.79	1.60	4.92	24.76		67.53	36.66	7.40	27.13	7.0
1.35-1.40	424.	20.04	52.50	11.70	2.34	3.94	7.51	22.41		47.50	47.19	11.70	42.49	4.5
1.40-1.45	208.	9.83	62.33	16.20	1.59	5.53	8.88	20.82		37.67	55.28	16.20	57.42	1.0
1.45-1.50	123.	5.81	68.15	22.30	1.30	6.83	10.02	19.53		31.85	61.30	22.30	65.24	1.0
1.50-1.60	142.	6.71	74.86	27.20	1.83	8.65	11.56	17.70		25.14	70.40	27.20	71.50	1.0
1.60 SINK	532.	25.14	100.00	70.40	17.70	26.35	26.35	0.0		0.00	0.0	70.40	87.43	0.0



## FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAP	RECOVERY AND ASH CALCULATIONS						
		A	R	FR	FAR	FRAI	FRI	AP
0.0	0.0	4.0	24.5	0.2153	0.0086	0.0086	.215	4.0
0.0	0.0	6.0	41.2	0.3621	0.0217	0.0217	.362	6.0
0.0	0.0	8.0	56.3	0.4948	0.0396	0.0396	.495	8.0
0.0	0.0	10.0	68.1	0.5985	0.0599	0.0599	.599	10.0
0.0	0.0	12.0	76.6	0.6737	0.0808	0.0808	.674	12.0
0.0	0.0	14.0	83.9	0.7377	0.1033	0.1033	.738	14.0
0.0	0.0	16.0	89.9	0.7902	0.1264	0.1264	.790	16.0
0.0	0.0	18.0	94.6	0.8313	0.1496	0.1496	.831	18.0
0.0	0.0	20.0	97.9	0.8610	0.1722	0.1722	.861	20.0

COMPO NUMBER-- 36

DRILL HOLE NUMBER-- 1908

SEAM NUMBER-- 64448-54

## DATA

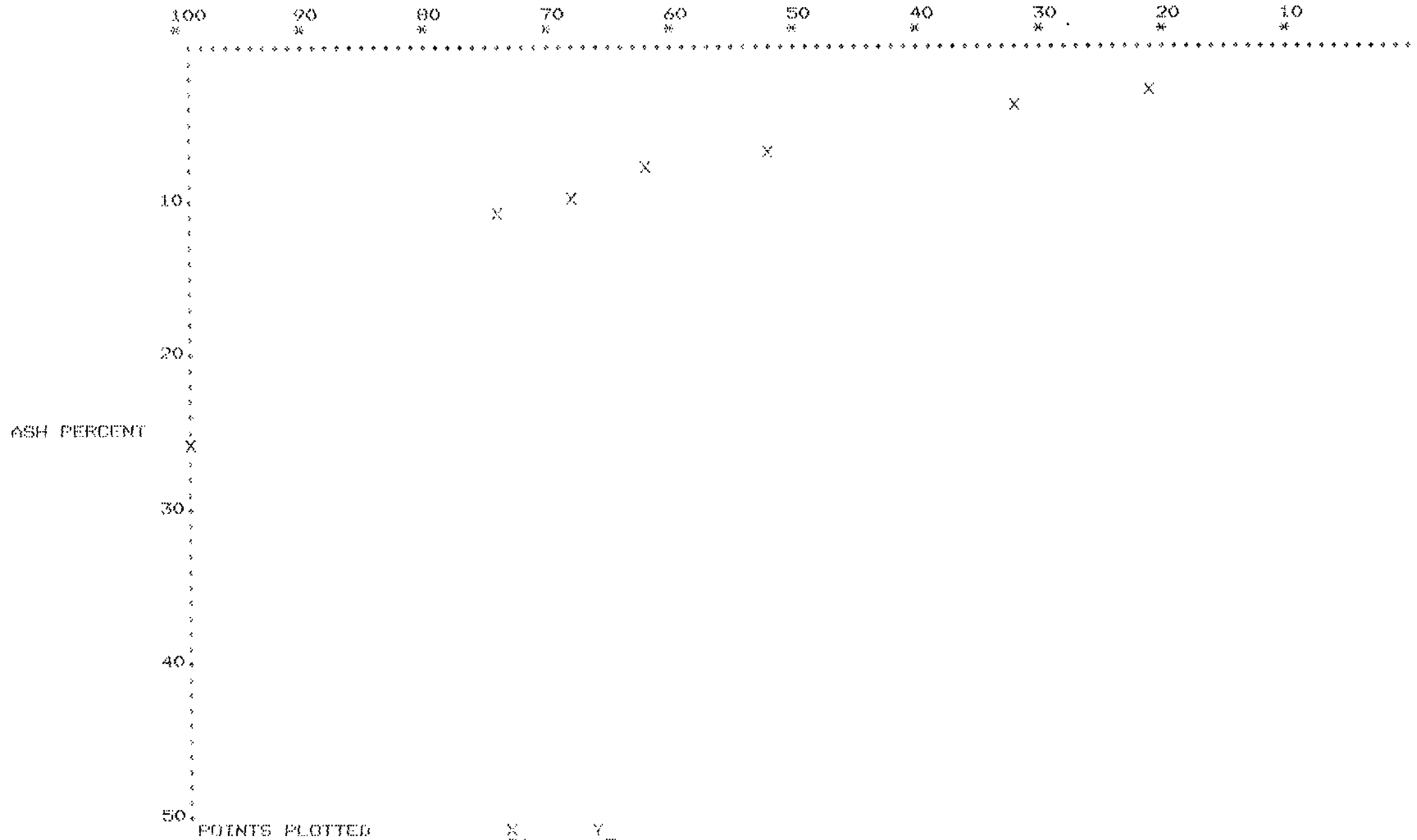
## SIZE DISTRIBUTION

SIZE	WEIGHT (GMS)	WEIGHT (%)	ASH (%)
+28MESH	2161.	87.9	26.4
--28MESH	297.	12.1	17.5
FEED	2458.	100.0	25.3

TABLE 3

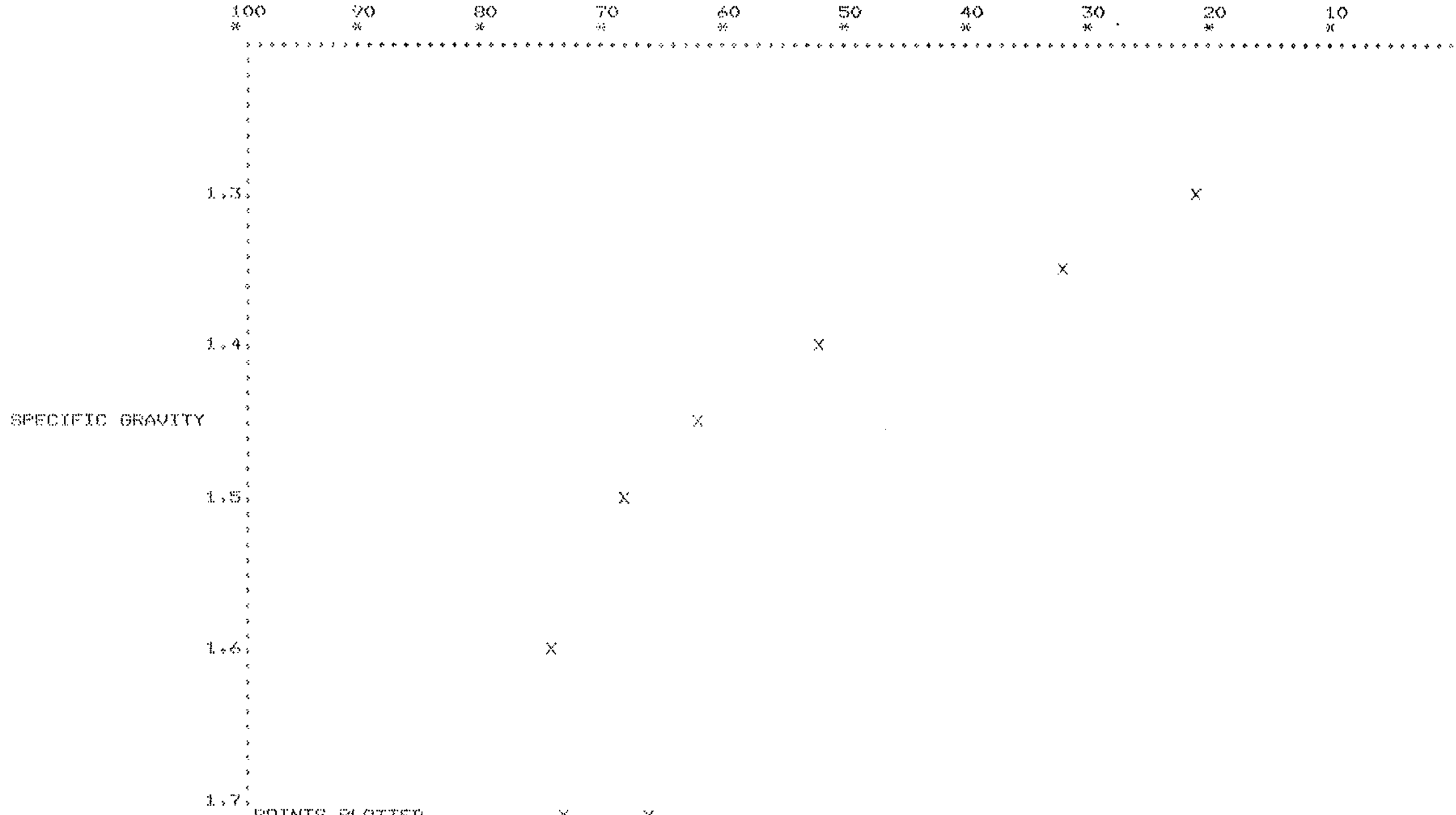
AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	9.67	66.54	1.48	58.50	100.00
COMBINED	8.50	58.50		58.50	100.00
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	10.24	69.16	1.51	60.80	100.00
COMBINED	9.00	60.80		60.80	100.00
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	10.81	71.70	1.55	63.04	100.00
COMBINED	9.50	63.04		63.04	100.00
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	11.37	74.11	1.59	65.15	100.00
COMBINED	10.00	65.15		65.15	100.00

CUMULATIVE FLOATS WEIGHT PERCENT



X	Y
21	5
52	7
62	8
68	10
74	11
99	26

CUMULATIVE FLOATS WEIGHT PERCENT



POINTS PLOTTED

X	Y
21	10
32	15
52	20
62	25
68	30
74	40

COMPO NUMBER-- 37

DRILL HOLE NUMBER-- 1908

SEAM NUMBER-- 5L 64458-62

FLOTATION RESULTS

PRODUCT	KEROSENE WEIGHT (GMS)	.90 WEIGHT %	FROTHER .20		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	311.0	95.1	8.0	6.5	79.7	96.7
TAILS	16.0	4.9	39.7	1.0	20.3	3.3
CALC. HEAD	327.	100.0	9.6		100.0	100.0

TABLE 1

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

SS	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	FST
1.30	316.	9.15	9.15	2.60	0.24	0.24	2.60	19.11		90.85	21.03	2.60	4.58	7.5
1.30-1.35	766.	22.19	31.34	5.80	1.29	1.53	4.87	17.82		68.66	25.96	5.80	20.25	1.5
1.35-1.40	822.	23.81	55.16	10.50	2.50	4.03	7.30	15.32		44.84	34.16	10.50	43.25	1.0
1.40-1.45	365.	10.57	65.73	14.80	1.56	5.59	8.50	13.76		34.27	40.14	14.80	60.44	1.0
1.45-1.50	272.	7.88	73.61	18.50	1.46	7.05	9.57	12.30		26.39	46.60	18.50	69.67	1.0
1.50-1.60	326.	9.44	83.05	27.40	2.59	9.64	11.60	9.71		16.95	57.30	27.40	78.33	1.0
1.60 SINK	585.	16.95	100.00	57.30	9.71	19.35	19.35	0.0		0.00	0.0	57.30	91.53	1.0

## FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRF/AF	RECOVERY AND ASH CALCULATIONS		FR	FAR	FRAI	FRI	AP
		A	R					
0.0995	0.0080	4.0	22.9	0.2048	0.0082	0.0162	.304	5.3
0.0995	0.0080	6.0	42.7	0.3820	0.0229	0.0309	.481	6.4
0.0995	0.0080	8.0	61.5	0.5505	0.0440	0.0520	.650	8.0
0.0995	0.0080	10.0	76.0	0.6802	0.0680	0.0760	.780	9.7
0.0995	0.0080	12.0	84.7	0.7581	0.0910	0.0989	.858	11.5
0.0995	0.0080	14.0	91.5	0.8196	0.1148	0.1227	.919	13.4
0.0995	0.0080	16.0	96.4	0.8631	0.1381	0.1461	.963	15.2
0.0995	0.0080	18.0	99.2	0.8885	0.1599	0.1679	.988	17.0

COMPO NUMBER-- 37

DRILL HOLE NUMBER-- 1908

SEAM NUMBER-- 64458-62

## DATA

## SIZE DISTRIBUTION

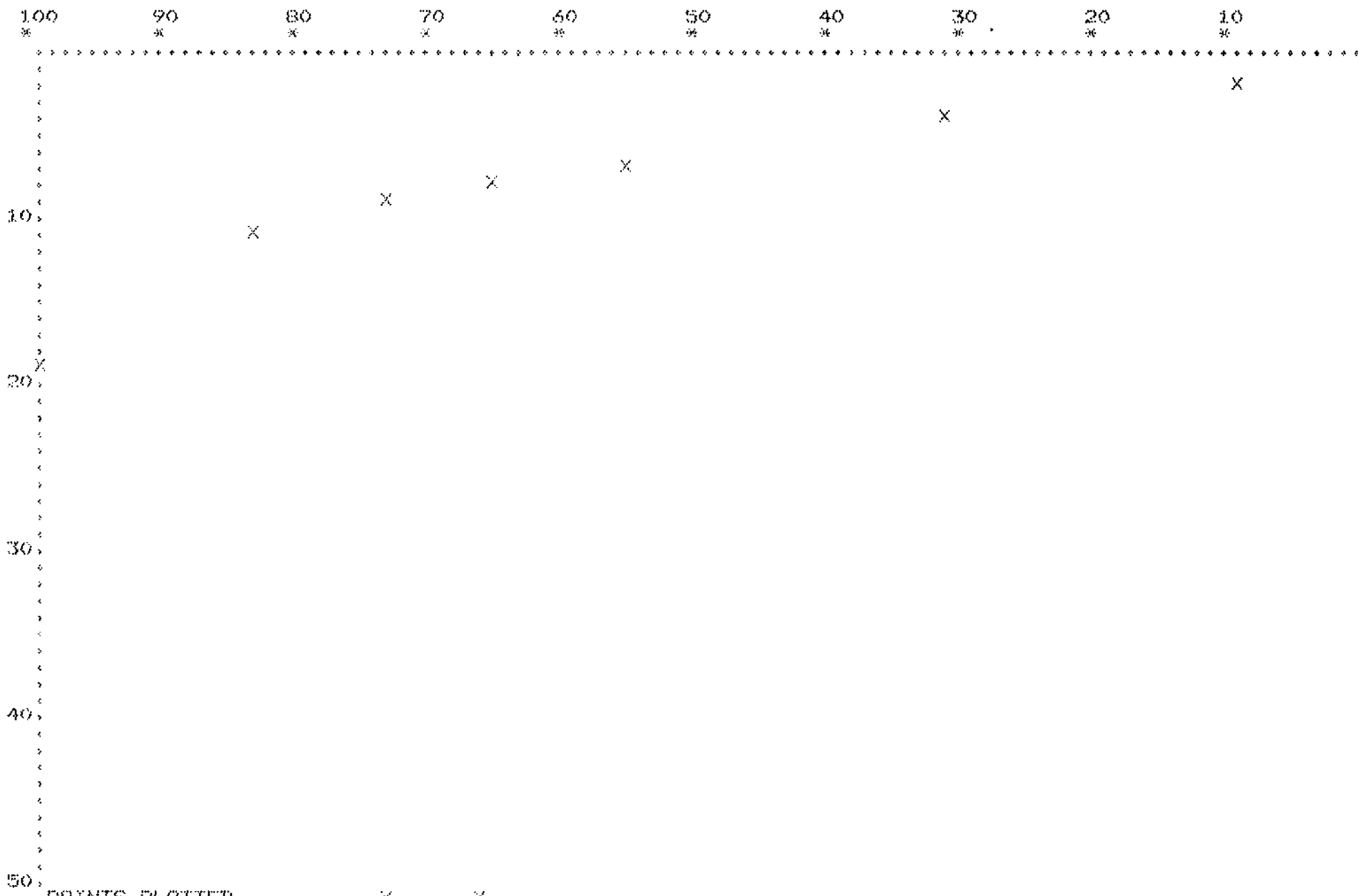
SIZE	WEIGHT (GMS)	WEIGHT (%)	ASH (%)
+28MESH	3492.	89.5	19.3
-28MESH	408.	10.5	9.6
FEED	3900.	100.0	18.3

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	8.00	95.11		9.95	14.38
PLUS 28	8.56	66.19	1.45	59.26	85.62
COMBINED	8.50	69.21		69.21	100.00
FLOTATION	8.00	95.11		9.95	13.62
PLUS 28	9.12	70.47	1.48	63.10	86.38
COMBINED	9.00	73.04		73.04	100.00
FLOTATION	8.00	95.11		9.95	13.03
PLUS 28	9.68	74.19	1.51	66.42	86.97
COMBINED	9.50	76.37		76.37	100.00
FLOTATION	8.00	95.11		9.95	12.58
PLUS 28	10.23	77.19	1.53	69.11	87.42
COMBINED	10.00	79.06		79.06	100.00



CUMULATIVE FLOATS WEIGHT PERCENT



POINTS PLOTTED

X	Y
9	2
31	4
55	7
65	8
73	9
83	11
99	19

CUMULATIVE FLOATS WEIGHT PERCENT

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



SPECIFIC GRAVITY

1.7: POINTS PLOTTED

X	Y
9	10
31	15
55	20
65	25
73	30
88	40

COMPO NUMBER-- 38

DRILL HOLE NUMBER-- 1908

SEAM NUMBER-- 64463-72

\*\* NO FLOTATION RUNS \*\*

HEAD SAMPLE

WEIGHT %	ASSAY	
	ASH	FSI
100.0	6.4	7.5

*Upper*

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	330.	21.68	21.68	2.90	0.63	0.63	2.90	16.13		78.32	20.59	2.90	10.84	8.0
1.30-1.35	476.	31.27	52.96	6.40	2.00	2.63	4.97	14.12		47.04	30.03	6.40	37.32	3.0
1.35-1.40	255.	16.75	69.71	10.70	1.77	4.42	6.34	12.33		30.29	40.72	10.70	61.33	1.5
1.40-1.45	101.	6.64	76.35	16.30	1.08	5.50	7.21	11.25		23.65	47.56	16.30	73.03	1.0
1.45-1.50	35.	2.30	78.65	19.80	0.46	5.96	7.58	10.80		21.35	50.55	19.80	77.50	1.5
1.50-1.60	84.	5.52	84.17	26.90	1.48	7.44	8.85	9.31		15.83	58.80	26.90	81.41	1.0
1.60 SINK	241.	15.83	100.00	58.80	9.31	16.76	16.76	0.0		0.00	0.0	58.80	92.08	0.5

## FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAP	RECOVERY AND ASH CALCULATIONS						
		A	R	FR	FAR	FRAI	FRI	AP
0.0	0.0	4.0	39.2	0.3620	0.0145	0.0145	.362	4.0
0.0	0.0	6.0	66.0	0.6091	0.0365	0.0365	.609	6.0
0.0	0.0	8.0	80.8	0.7452	0.0596	0.0596	.745	8.0
0.0	0.0	10.0	88.5	0.8162	0.0816	0.0816	.816	10.0
0.0	0.0	12.0	94.3	0.8702	0.1044	0.1044	.870	12.0
0.0	0.0	14.0	98.1	0.9052	0.1267	0.1267	.905	14.0
0.0	0.0	16.0	99.9	0.9213	0.1474	0.1474	.921	16.0

COMPO NUMBER-- 38

DRILL HOLE NUMBER-- 1908

SEAM NUMBER--

64463-72

## DATA

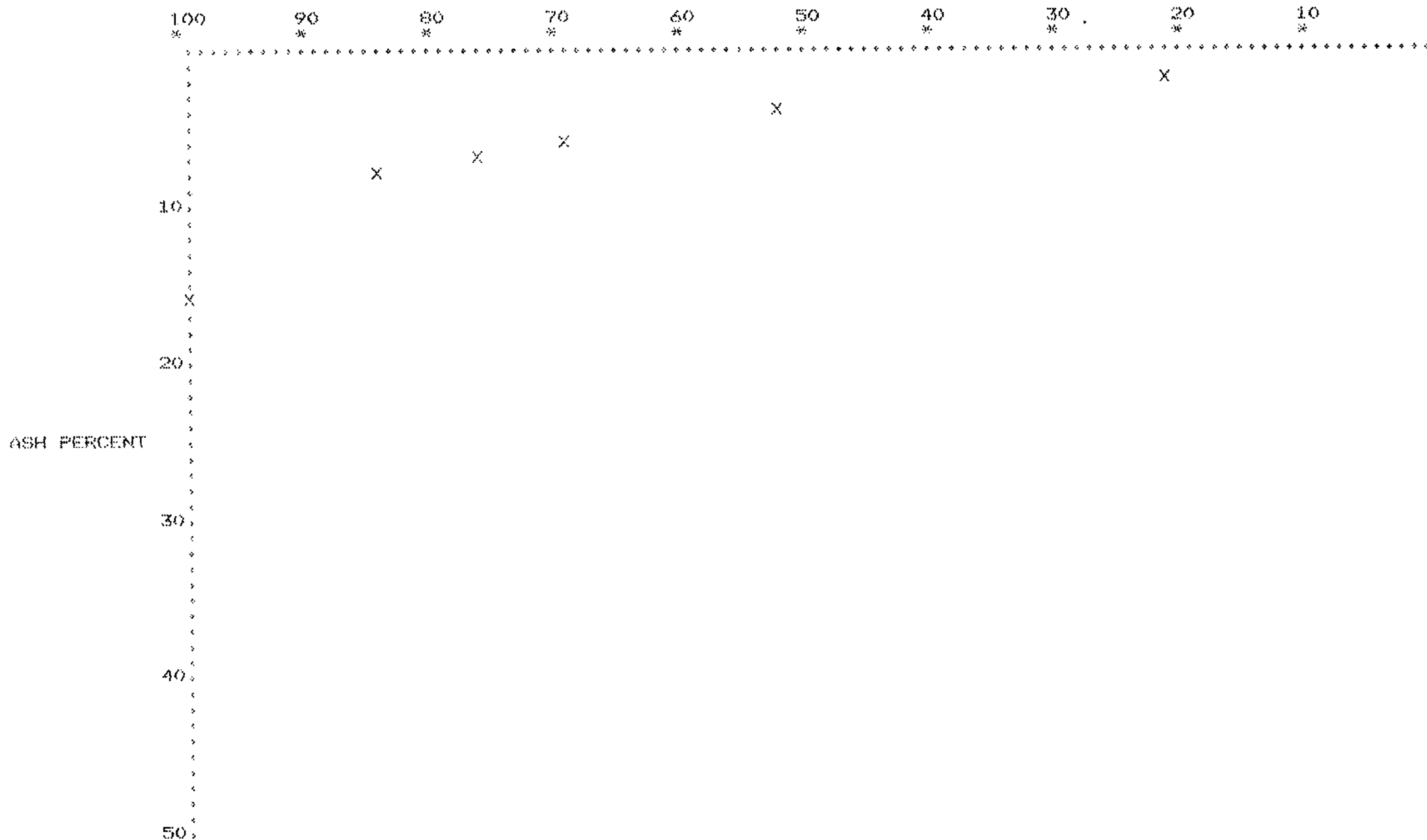
## SIZE DISTRIBUTION

SIZE	WEIGHT (GMS)	WEIGHT (%)	ASH (%)
+28MESH	1535.	92.2	16.8
-28MESH	129.	7.8	6.4
FEED	1664.	100.0	16.0

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	9.21	85.62	+1.60	78.98	100.00
COMBINED	8.50	78.98		78.98	100.00
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	9.76	87.63	+1.60	80.83	100.00
COMBINED	9.00	80.83		80.83	100.00
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	10.30	89.48	+1.60	82.55	100.00
COMBINED	9.50	82.55		82.55	100.00
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	10.84	91.19	+1.60	84.12	100.00
COMBINED	10.00	84.12		84.12	100.00

CUMULATIVE FLOATS WEIGHT PERCENT

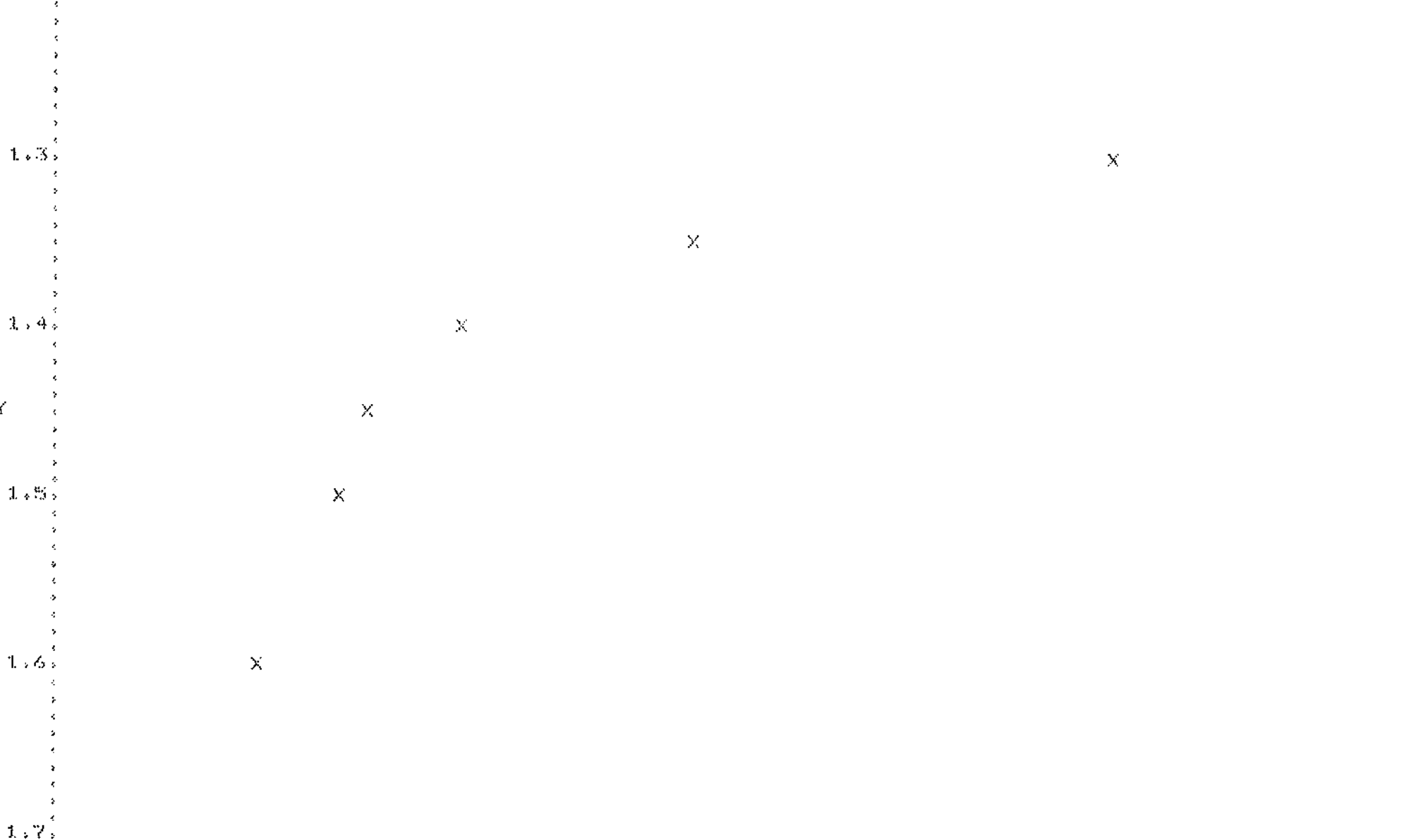


POINTS PLOTTED

X	Y
21	2
52	4
69	6
76	7
78	7
94	8
99	16

CUMULATIVE FLOATS WEIGHT PERCENT

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



SPECIFIC GRAVITY

POINTS PLOTTED

X	Y
21	10
52	15
69	20
76	25
78	30
84	40



COMPO NUMBER-- 39

DRILL HOLE NUMBER-- 1908

SEAM NUMBER-- 64475-79

*4 lower*

FLOTATION RESULTS

PRODUCT	KEROSENE WEIGHT (GMS)	.90 WEIGHT %	FROTHER .20		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	303.0	92.1	5.7	7.0	71.5	93.7
TAILS	26.0	7.9	26.5	1.5	28.5	6.3
CALC. HEAD	329.	100.0	7.3		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 ASH WT. %	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	630.	16.96	16.96	2.80	0.47	0.47	2.80	16.13	83.04	19.43	2.60	8.48	7.0
1.30-1.35	1043.	28.08	45.05	6.10	1.71	2.19	4.86	14.42	54.95	26.24	6.10	31.00	1.5
1.35-1.40	655.	17.64	62.68	10.80	1.90	4.09	6.53	12.51	37.32	33.53	10.80	53.86	1.0
1.40-1.45	290.	7.81	70.49	14.80	1.16	5.25	7.45	11.36	29.51	38.49	14.80	66.59	1.0
1.45-1.50	229.	6.17	76.66	20.10	1.24	6.49	8.46	10.12	23.34	43.35	20.10	73.57	1.0
1.50-1.60	243.	6.54	83.20	26.00	1.70	8.19	9.84	8.42	16.80	50.10	26.00	79.93	1.0
1.60 SINK	624.	16.80	100.00	50.10	8.42	16.61	16.61	0.0	0.00	0.0	50.10	91.60	0.5

## FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRF/AF	RECOVERY AND ASH CALCULATIONS		FR	FAR	FRAI	FRI	AF
		A	R					
0.1360	0.0078	4.0	34.2	0.2915	0.0117	0.0194	.428	4.5
0.1360	0.0078	6.0	57.6	0.4908	0.0294	0.0372	.627	5.9
0.1360	0.0078	8.0	74.1	0.6316	0.0505	0.0583	.768	7.6
0.1360	0.0078	10.0	83.9	0.7149	0.0715	0.0792	.851	9.3
0.1360	0.0078	12.0	91.3	0.7783	0.0934	0.1011	.914	11.1
0.1360	0.0078	14.0	96.5	0.8227	0.1152	0.1229	.959	12.8
0.1360	0.0078	16.0	99.5	0.8483	0.1357	0.1435	.984	14.6

COMPO NUMBER-- 39

DRILL HOLE NUMBER-- 1908

SEAM NUMBER-- 64475-79

DATA

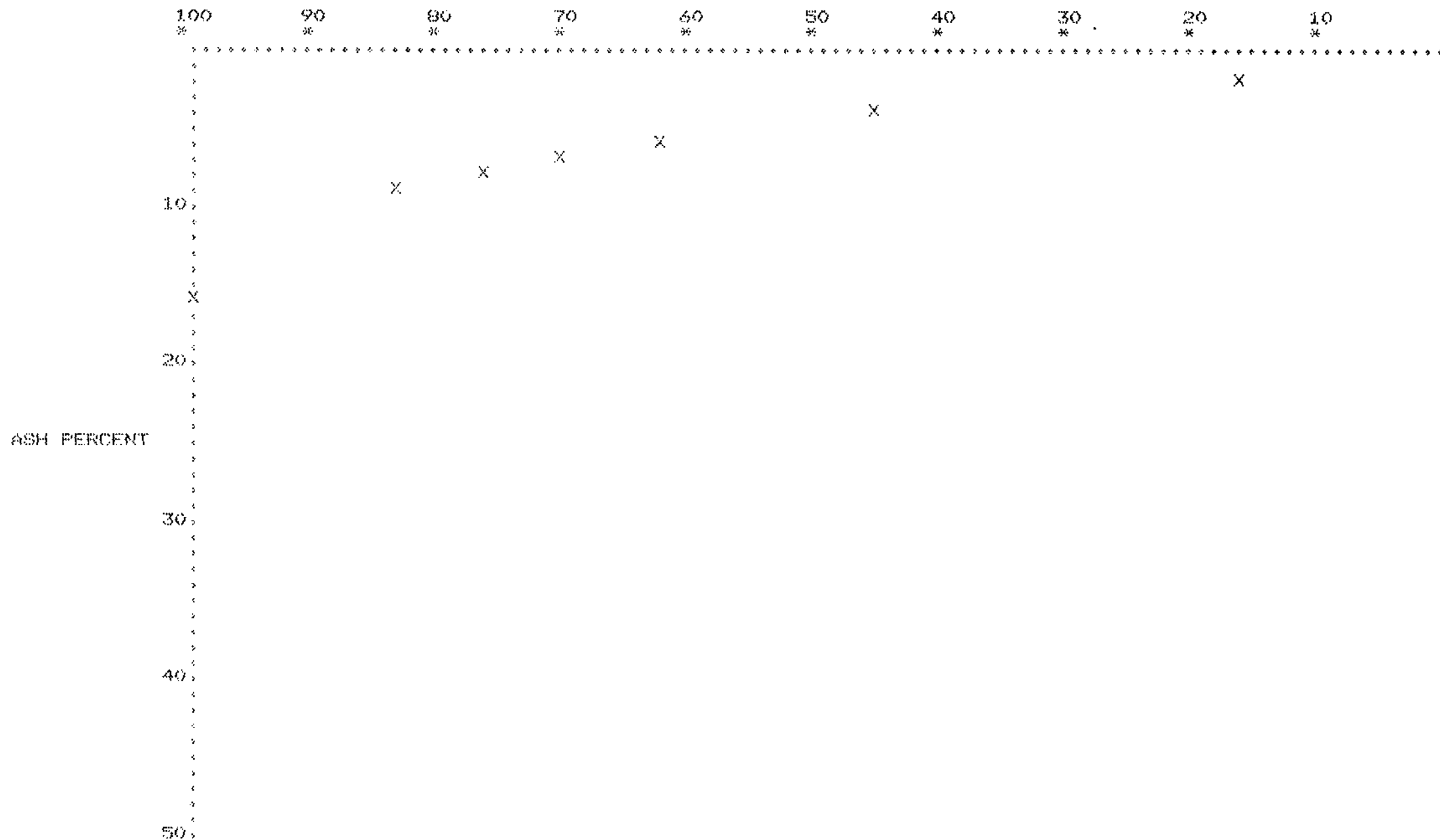
SIZE DISTRIBUTION

SIZE	WEIGHT (GMS)	WEIGHT (%)	ASH (%)
+28MESH	4091.	85.2	16.6
-28MESH	709.	14.8	7.3
FEED	4800.	100.0	15.2

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	5.70	92.10		13.60	16.75
PLUS 28	8.99	79.32	1.53	67.61	83.25
COMBINED	8.50	81.21		81.21	100.00
FLOTATION	5.70	92.10		13.60	16.29
PLUS 28	9.57	82.05	1.58	69.93	83.71
COMBINED	9.00	83.53		83.53	100.00
FLOTATION	5.70	92.10		13.60	15.88
PLUS 28	10.16	84.55	+1.60	72.06	84.12
COMBINED	9.50	85.66		85.66	100.00
FLOTATION	5.70	92.10		13.60	15.52
PLUS 28	10.75	86.91	+1.60	74.07	84.48
COMBINED	10.00	87.57		87.67	100.00

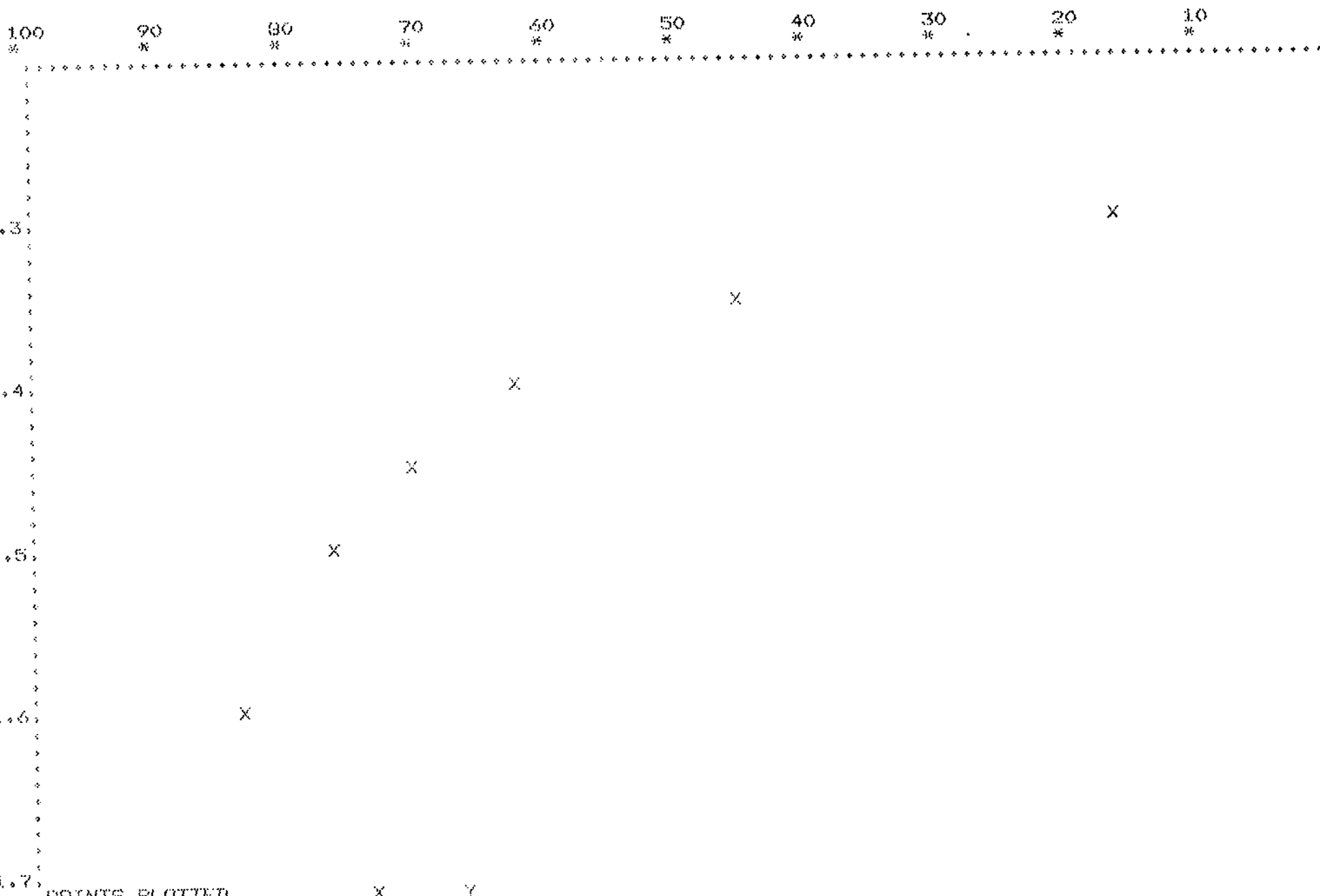
CUMULATIVE FLOATS WEIGHT PERCENT



POINTS PLOTTED

X	Y
16	2
45	4
62	5
70	7
76	8
83	9
99	16

CUMULATIVE FLOATS WEIGHT PERCENT



SPECIFIC GRAVITY

POINTS PLOTTED

X	Y
16	10
45	15
62	20
70	25
76	30
83	40

COMPO NUMBER-- 40

DRILL HOLE NUMBER-- 1908

SEAM NUMBER-- 2 64481-83

\*\* NO FLOTATION RUNS \*\*

HEAD SAMPLE

WEIGHT %	ASSAY	
	ASH	FSI
100.0	6.6	8.5

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 ASH WT. %	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	937.	62.63	62.63	3.30	2.07	2.07	3.30	3.88	37.37	10.37	3.30	31.32	8.0
1.30-1.35	382.	25.53	88.17	7.00	1.79	3.85	4.37	2.09	11.83	17.66	7.00	75.40	7.5
1.35-1.40	83.	5.55	93.72	10.30	0.57	4.43	4.72	1.52	6.28	24.15	10.30	90.94	6.5
1.40-1.45	36.	2.41	96.12	14.40	0.35	4.77	4.96	1.17	3.88	30.20	14.40	94.92	2.5
1.45-1.50	20.	1.34	97.46	15.50	0.21	4.98	5.11	0.96	2.54	37.94	15.50	96.79	5.5
1.50-1.60	15.	1.00	98.46	21.60	0.22	5.20	5.28	0.75	1.54	48.60	21.60	97.96	2.5
1.60 SINK	23.	1.54	100.00	48.60	0.75	5.94	5.94	0.00	0.00	0.0	48.60	99.23	1.0



FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRF/AF	RECOVERY AND ASH CALCULATIONS		FR	FAR	FRAI	FRI	AP
		A	R					
0.0	0.0	4.0	80.8	0.6756	0.0270	0.0270	.676	4.0

COMPO NUMBER-- 40

DRILL HOLE NUMBER-- 1908

SEAM NUMBER--

64481-83

## DATA

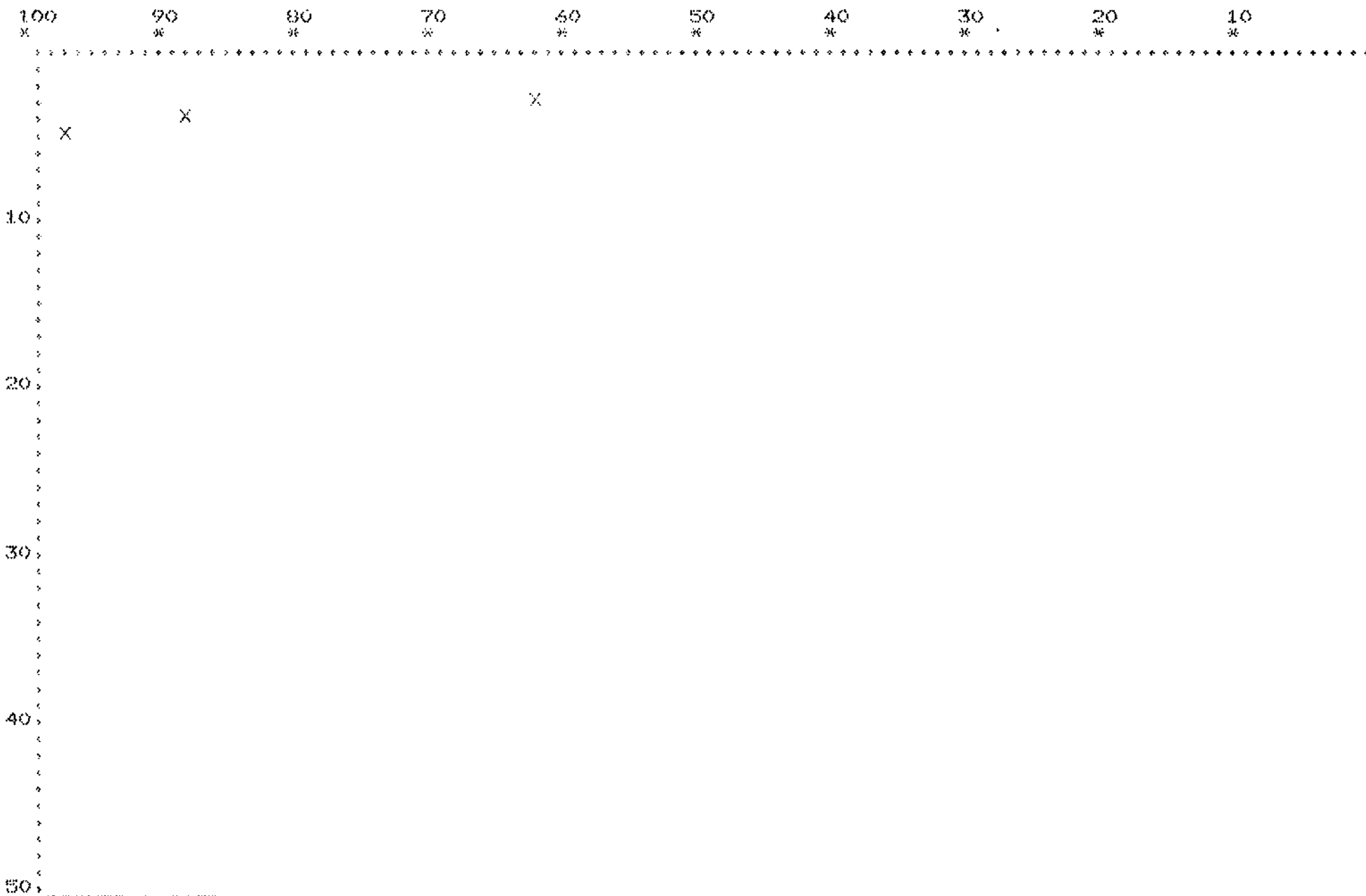
## SIZE DISTRIBUTION

SIZE	WEIGHT(ONS)	WEIGHT(%)	ASH(%)
+28MESH	1509.	83.6	5.9
-28MESH	296.	16.4	6.6
FEED	1805.	100.0	6.1

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	5.94	100.00	+1.60	83.60	100.00
COMBINED	4.97	83.60		83.60	100.00
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	5.94	100.00	+1.60	83.60	100.00
COMBINED	4.97	83.60		83.60	100.00
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	5.94	100.00	+1.60	83.60	100.00
COMBINED	4.97	83.60		83.60	100.00
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	5.94	100.00	+1.60	83.60	100.00
COMBINED	4.97	83.60		83.60	100.00

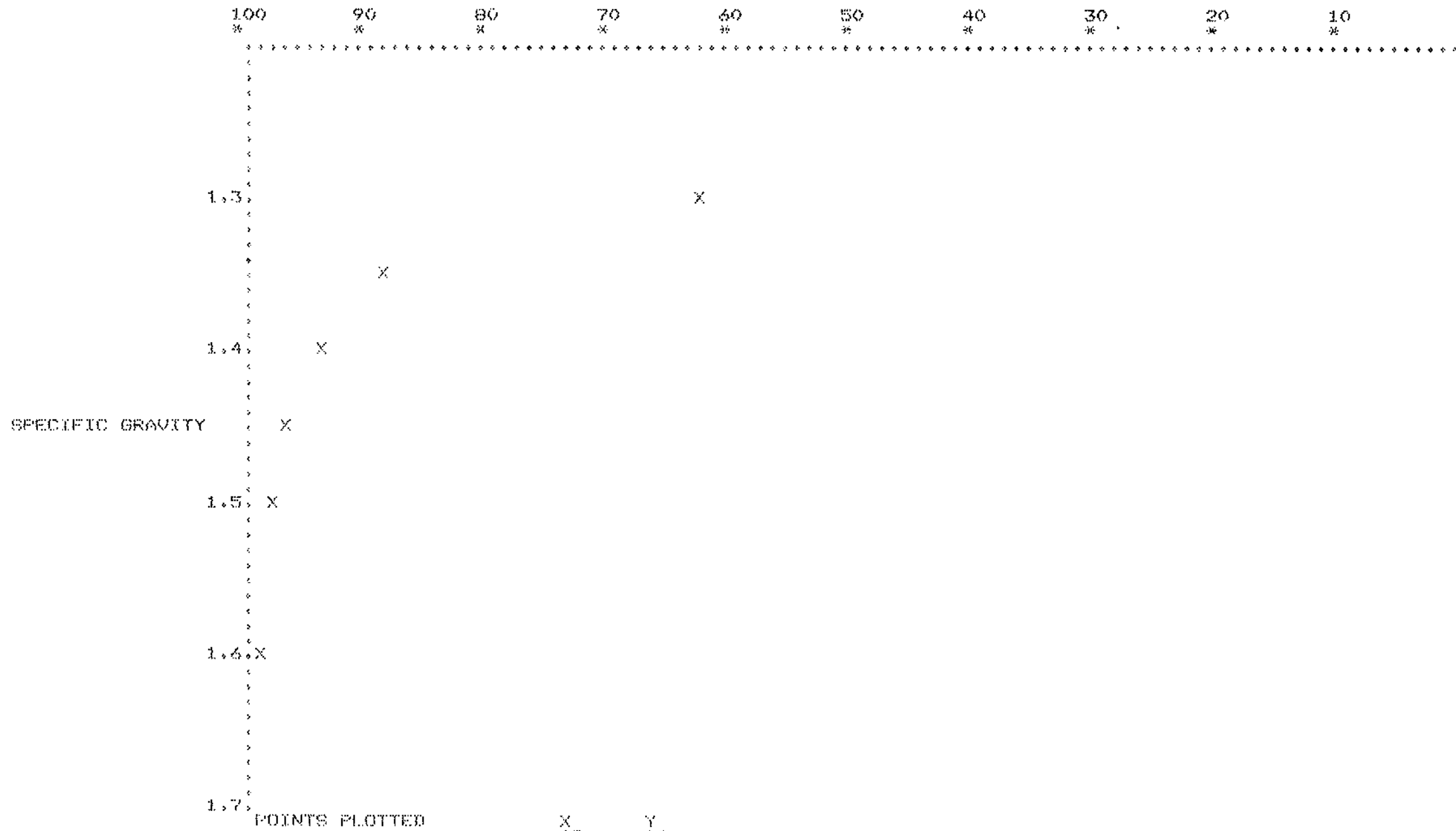
CUMULATIVE FLOATS WEIGHT PERCENT



POINTS PLOTTED

X	Y
62	3
88	4
93	4
96	4
97	5
98	5
99	5

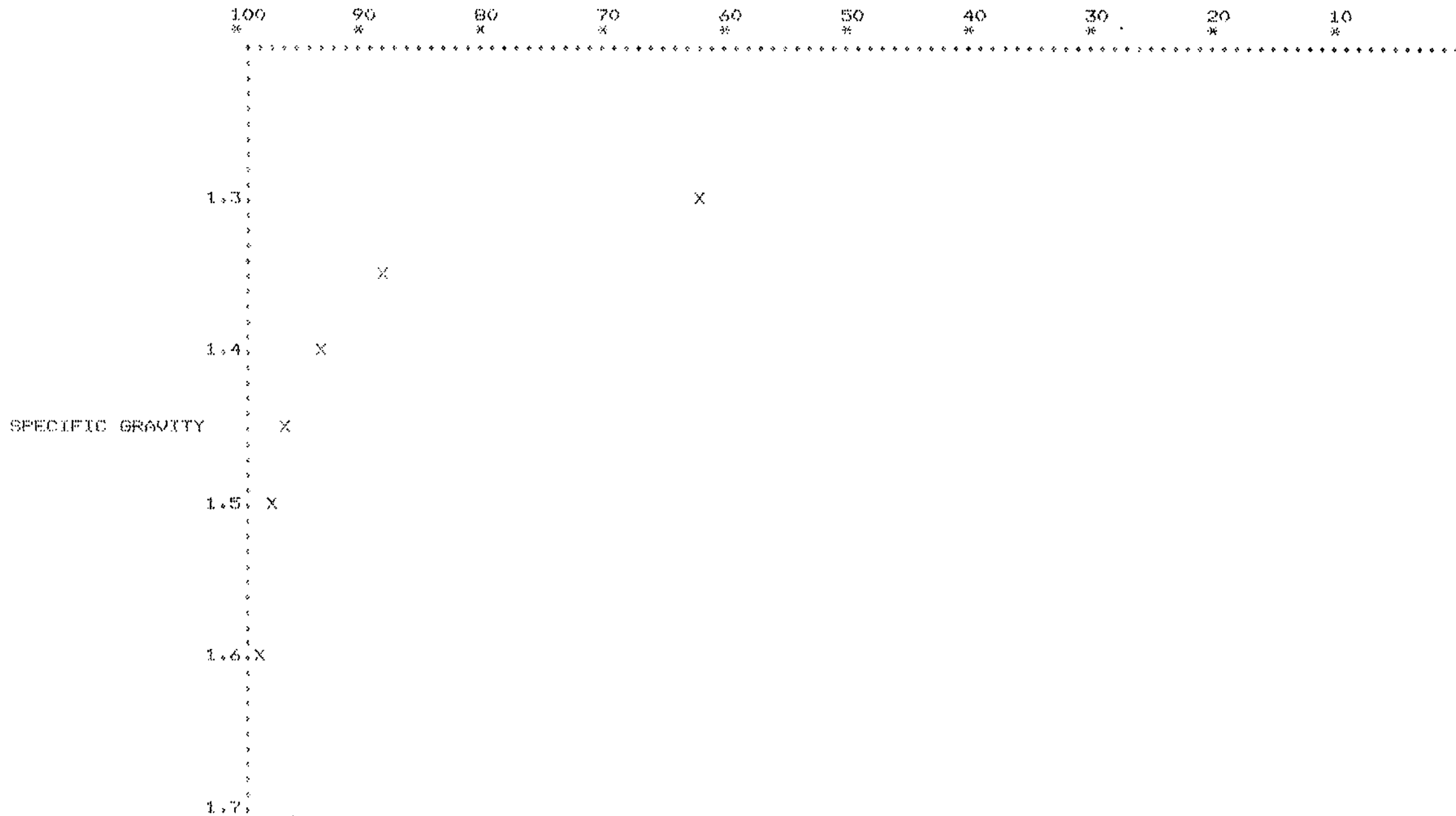
CUMULATIVE FLOATS WEIGHT PERCENT



POINTS PLOTTED

X	Y
62	10
88	15
93	20
96	25
97	30
98	40

CUMULATIVE FLOATS WEIGHT PERCENT



POINTS PLOTTED

X	Y
62	10
88	15
93	20
96	25
97	30
98	40

COMPO NUMBER-- 41

DRILL HOLE NUMBER-- 1908

SEAM NUMBER-- / 64484-86

\*\* NO FLOTATION RUNS \*\*

HEAD SAMPLE

WEIGHT %	ASSAY	
	ASH	FSI
100.0	8.0	8.0

TABLE 1

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

SD	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	113.	6.69	6.69	2.80	0.19	0.19	2.80	14.90		93.31	15.97	2.80	3.35	8.5
1.30-1.35	563.	33.33	40.02	7.80	2.60	2.79	6.96	12.30		59.98	20.51	7.80	23.36	7.5
1.35-1.40	534.	31.62	71.64	11.60	3.67	6.45	9.01	8.63		28.36	30.45	11.60	55.83	3.5
1.40-1.45	214.	12.67	84.31	15.60	1.98	8.43	10.00	6.66		15.69	42.43	15.60	77.98	1.5
1.45-1.50	91.	5.39	89.70	19.20	1.03	9.47	10.55	5.62		10.30	54.59	19.20	87.00	1.0
1.50-1.60	44.	2.61	92.30	25.00	0.65	10.12	10.96	4.97		7.70	64.60	25.00	91.00	1.0
1.60 SINK	130.	7.70	100.00	64.60	4.97	15.09	15.09	0.00		0.00	0.0	64.60	96.15	1.0

FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAF	RECOVERY AND ASH CALCULATIONS				FRAI	FRI	AP
		A	R	FR	FAR			
0.0	0.0	4.0	12.0	0.1090	0.0044	0.0044	.109	4.0
0.0	0.0	6.0	28.6	0.2591	0.0155	0.0155	.259	6.0
0.0	0.0	8.0	55.9	0.5062	0.0405	0.0405	.506	8.0
0.0	0.0	10.0	84.4	0.7643	0.0764	0.0764	.764	10.0
0.0	0.0	12.0	97.4	0.8823	0.1059	0.1059	.882	12.0
0.0	0.0	14.0	****	0.9169	0.1284	0.1284	.917	14.0



COMPO NUMBER-- 41

DRILL HOLE NUMBER-- 1908

SEAM NUMBER-- 64484-86

## DATA

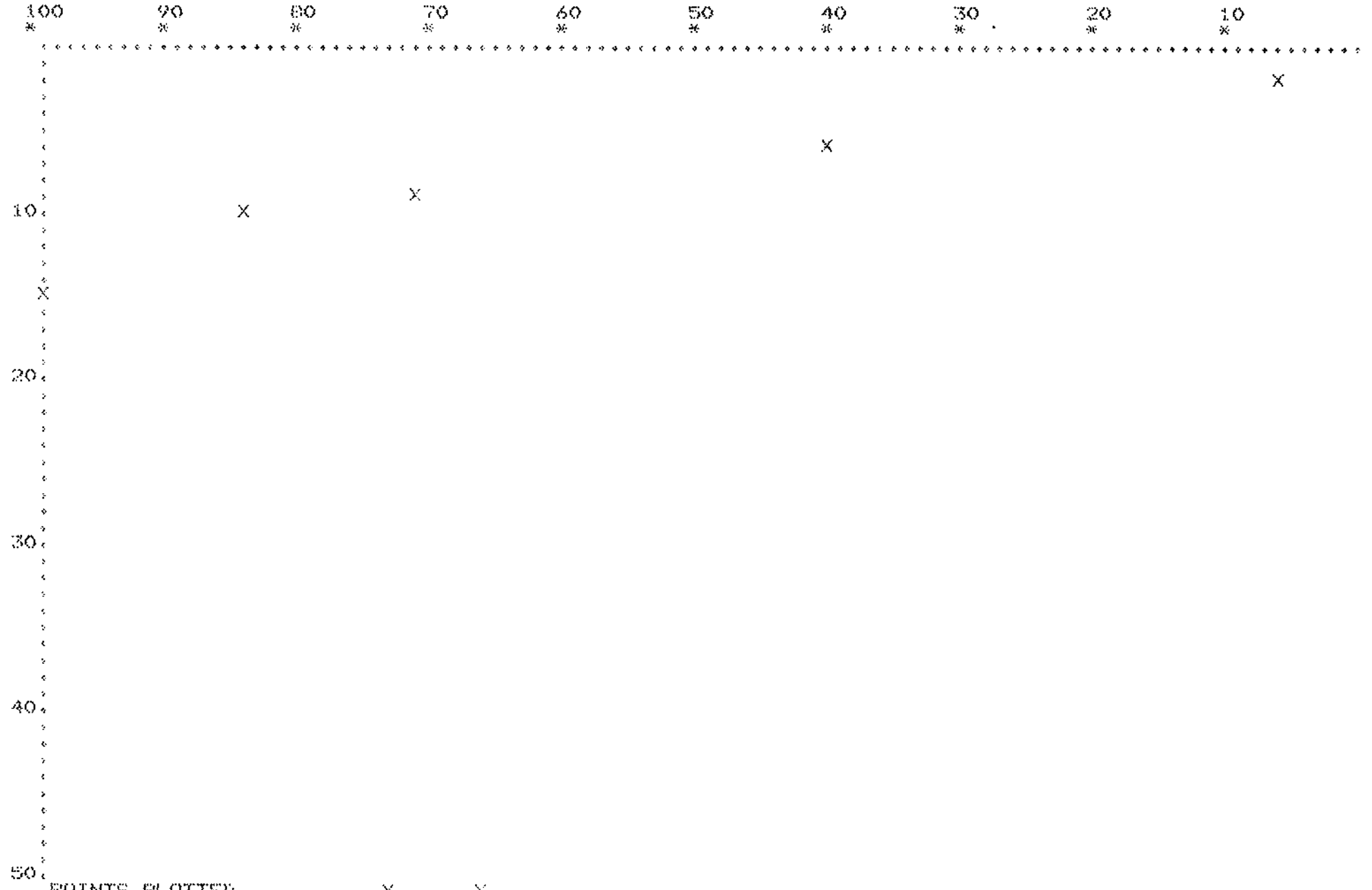
## SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MESH	1704.	90.6	15.1
-28MESH	177.	9.4	8.0
FEED	1881.	100.0	14.4

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	9.38	76.80	1.42	69.58	100.00
COMBINED	8.50	69.58		69.58	100.00
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	9.93	83.63	1.45	75.76	100.00
COMBINED	9.00	75.76		75.76	100.00
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	10.49	89.28	1.52	80.88	100.00
COMBINED	9.50	80.88		80.88	100.00
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	11.04	92.71	+1.60	83.99	100.00
COMBINED	10.00	83.99		83.99	100.00

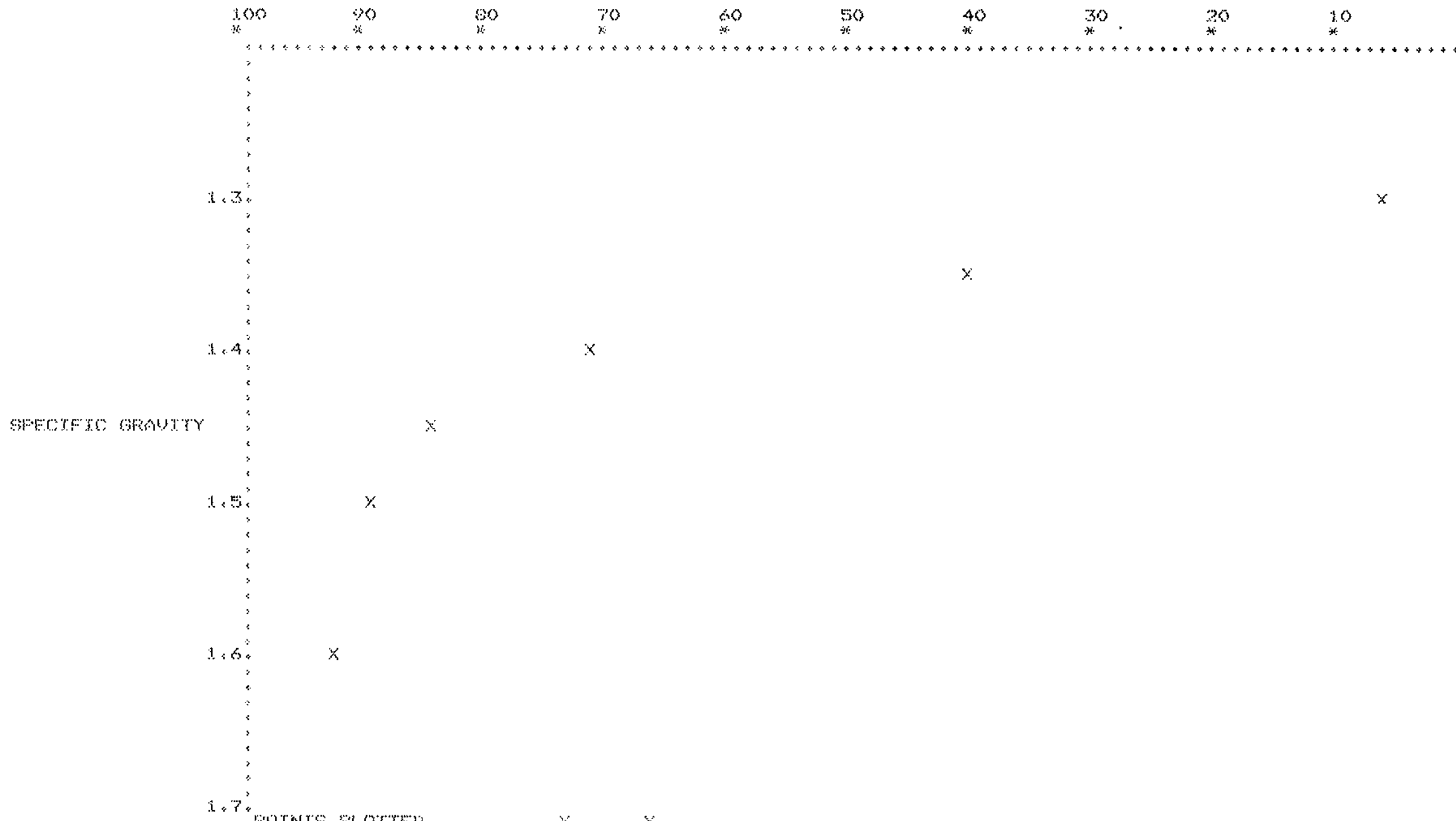
CUMULATIVE FLOATS WEIGHT PERCENT



POINTS PLOTTED

X	Y
6	2
40	6
71	9
84	10
89	10
92	10
99	15

CUMULATIVE FLOATS WEIGHT PERCENT



POINTS PLOTTED

X	Y
6	10
40	15
71	20
84	25
89	30
92	40

COMPO NUMBER- 42

DRILL HOLE NUMBER- 1906

SEAM NUMBER- 47031-37

*5 bars*

FLOTATION RESULTS

PRODUCT	KEROSENE WEIGHT (GMS)	.90 WEIGHT %	.20 FROTHER		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	272.0	82.9	7.5	5.5	62.2	85.2
TAILS	56.0	17.1	22.1	1.0	37.8	14.8
CALC. HEAD	328.	100.0	10.0		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	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	284.	7.86	7.86	2.80	0.22	0.22	2.80	16.83		92.14	18.27	2.80	3.93	6.5
1.30-1.35	905.	25.04	32.90	6.20	1.55	1.77	5.39	15.28		67.10	22.77	6.20	20.38	1.0
1.35-1.40	1204.	33.31	66.21	9.80	3.26	5.04	7.61	12.02		33.79	35.57	9.80	49.56	1.0
1.40-1.45	259.	7.17	73.38	15.20	1.09	6.13	8.35	10.93		26.62	41.05	15.20	69.80	1.0
1.45-1.50	194.	5.37	78.75	21.30	1.14	7.27	9.23	9.78		21.25	46.04	21.30	76.07	1.0
1.50-1.60	242.	6.70	85.45	24.40	1.63	8.90	10.42	8.15		14.55	56.00	24.40	82.10	1.0
1.60 SINK	526.	14.55	100.00	56.00	8.15	17.05	17.05	0.0		0.00	0.0	56.00	92.72	0.5

## FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAF	RECOVERY AND ASH CALCULATIONS						
		A	R	FR	FAR	FRAI	FRI	AP
0.0735	0.0055	4.0	17.6	0.1606	0.0064	0.0119	.234	5.1
0.0735	0.0055	6.0	42.4	0.3867	0.0232	0.0287	.460	6.2
0.0735	0.0055	8.0	70.3	0.6404	0.0512	0.0567	.714	7.9
0.0735	0.0055	10.0	83.2	0.7582	0.0758	0.0813	.832	9.8
0.0735	0.0055	12.0	92.4	0.8422	0.1011	0.1066	.916	11.6
0.0735	0.0055	14.0	98.1	0.8940	0.1252	0.1307	.968	13.5
0.0735	0.0055	16.0	***	0.9137	0.1462	0.1517	.987	15.4

COMPO NUMBER-- 42

DRILL HOLE NUMBER-- 1906

SEAM NUMBER-- 47031-37

DATA

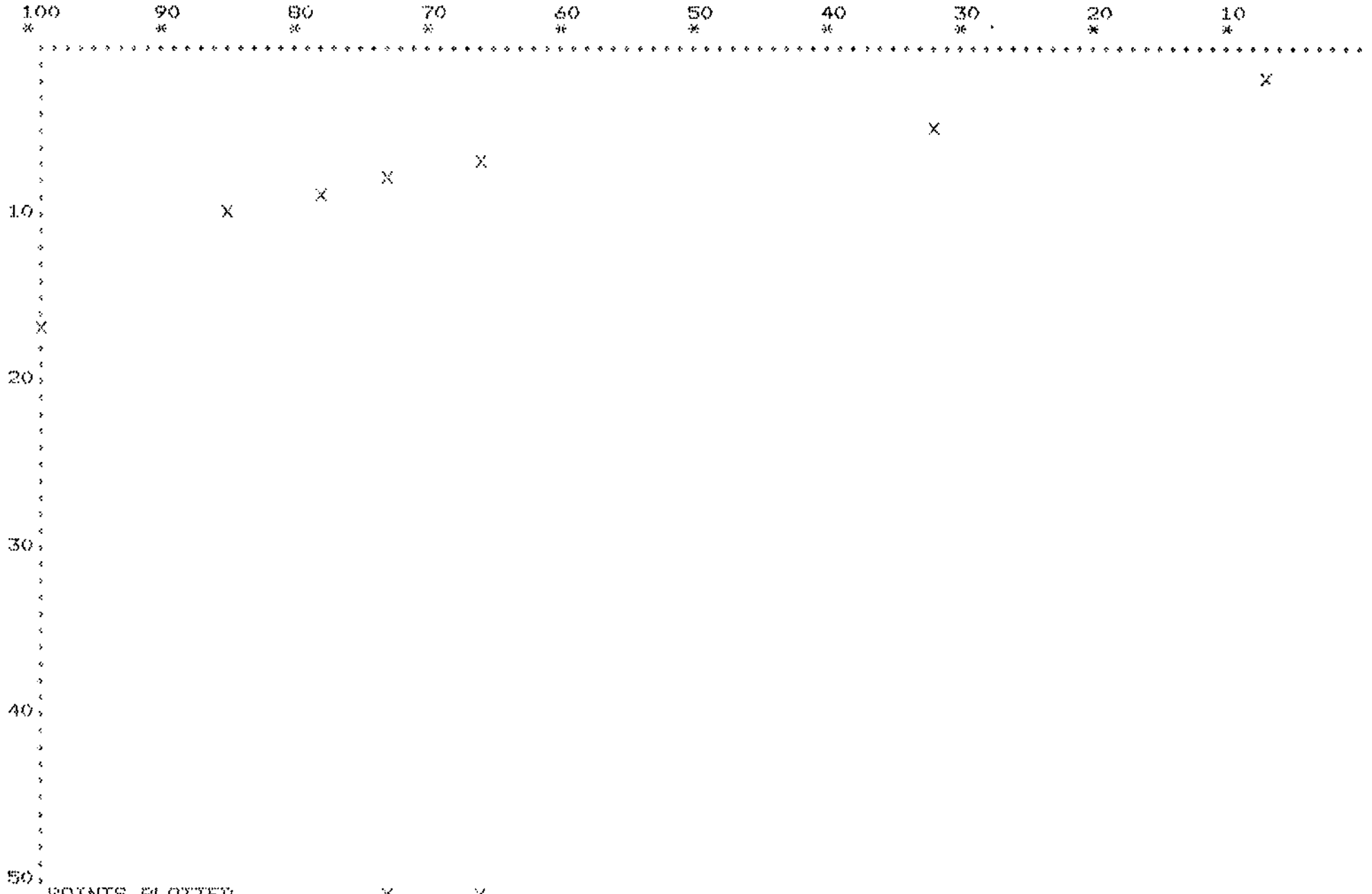
SIZE DISTRIBUTION

SIZE	WEIGHT (GMS)	WEIGHT (%)	ASH (%)
+28MESH	3977.	91.1	17.1
-28MESH	387.	8.9	10.0
FEED	4364.	100.0	16.4

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	7.50	82.93		7.35	9.70
PLUS 28	8.60	75.09	1.47	68.43	90.30
COMBINED	8.50	75.78		75.78	100.00
FLOTATION	7.50	82.93		7.35	9.34
PLUS 28	9.15	78.31	1.50	71.37	90.66
COMBINED	9.00	78.72		78.72	100.00
FLOTATION	7.50	82.93		7.35	9.01
PLUS 28	9.69	81.48	1.54	74.25	90.99
COMBINED	9.50	81.61		81.61	100.00
FLOTATION	7.50	82.93		7.35	8.72
PLUS 28	10.24	84.52	1.56	77.02	91.28
COMBINED	10.00	84.38		84.38	100.00

CUMULATIVE FLOATS WEIGHT PERCENT

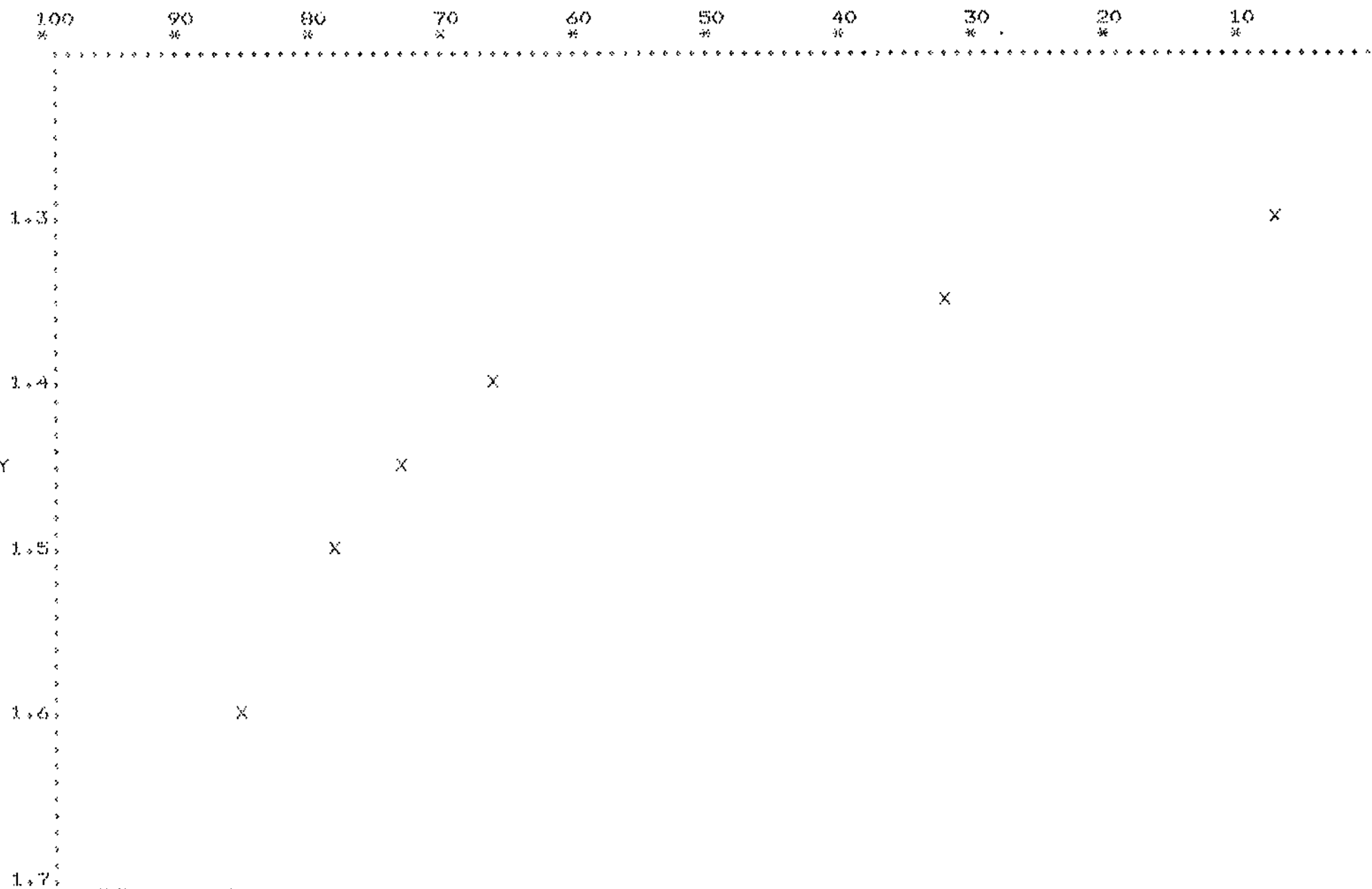


POINTS PLOTTED

X	Y
7	32
32	66
66	73
73	78
78	85
85	99
99	



CUMULATIVE FLOATS WEIGHT PERCENT



SPECIFIC GRAVITY

POINTS PLOTTED

X	Y
7	10
32	15
66	20
73	25
78	30
85	40

COMPO NUMBER-- 43

DRILL HOLE NUMBER-- 1906

SEAM NUMBER-- 4J 47038-44

FLOTATION RESULTS

PRODUCT	KEROSENE WEIGHT (GMS)	.90 WEIGHT %	FROTHER .20		DISTRIBUTION	
			ASSAY ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	267.0	81.7	9.4	5.5	52.4	86.7
TAILS	60.0	18.3	38.0	1.0	47.6	13.3
CALC. HEAD	327.	100.0	14.6		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 ASH WT. %	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	584.	21.82	21.82	2.50	0.55	0.55	2.50	21.12	78.18	27.02	2.50	10.91	7.5
1.30-1.35	800.	29.90	51.72	6.20	1.85	2.40	4.64	19.27	48.28	39.91	6.20	36.77	1.0
1.35-1.40	453.	16.93	68.65	11.40	1.93	4.33	6.31	17.34	31.35	55.30	11.40	60.18	1.0
1.40-1.45	118.	4.41	73.06	16.80	0.74	5.07	6.94	16.60	26.94	61.60	16.80	70.85	1.0
1.45-1.50	71.	2.65	75.71	22.30	0.59	5.66	7.48	16.01	24.29	65.90	22.30	74.38	1.0
1.50-1.60	89.	3.29	79.00	28.20	0.93	6.59	8.34	15.08	21.00	71.80	28.20	77.35	1.0
1.60 STNK	562.	21.00	100.00	71.80	15.08	21.67	21.67	0.0	0.00	0.0	71.80	89.50	0.0

## FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAP	RECOVERY AND ASH CALCULATIONS		FR	FAR	FRAI	FRI	AP
		A	R					
0.1250	0.0118	4.0	43.8	0.3706	0.0148	0.0266	.496	5.4
0.1250	0.0118	6.0	66.0	0.5593	0.0336	0.0453	.684	6.6
0.1250	0.0118	8.0	77.8	0.6591	0.0527	0.0645	.784	8.2
0.1250	0.0118	10.0	84.7	0.7170	0.0717	0.0835	.842	9.9
0.1250	0.0118	12.0	90.3	0.7651	0.0918	0.1036	.890	11.6
0.1250	0.0118	14.0	94.8	0.8025	0.1123	0.1241	.927	13.4
0.1250	0.0118	16.0	97.9	0.8292	0.1327	0.1444	.954	15.1
0.1250	0.0118	18.0	99.8	0.8452	0.1521	0.1639	.970	16.9
0.1250	0.0118	20.0	****	0.8506	0.1701	0.1819	.976	18.6

COMPO NUMBER-- 43

DRILL HOLE NUMBER-- 1906

SEAM NUMBER-- 47038-44

DATA

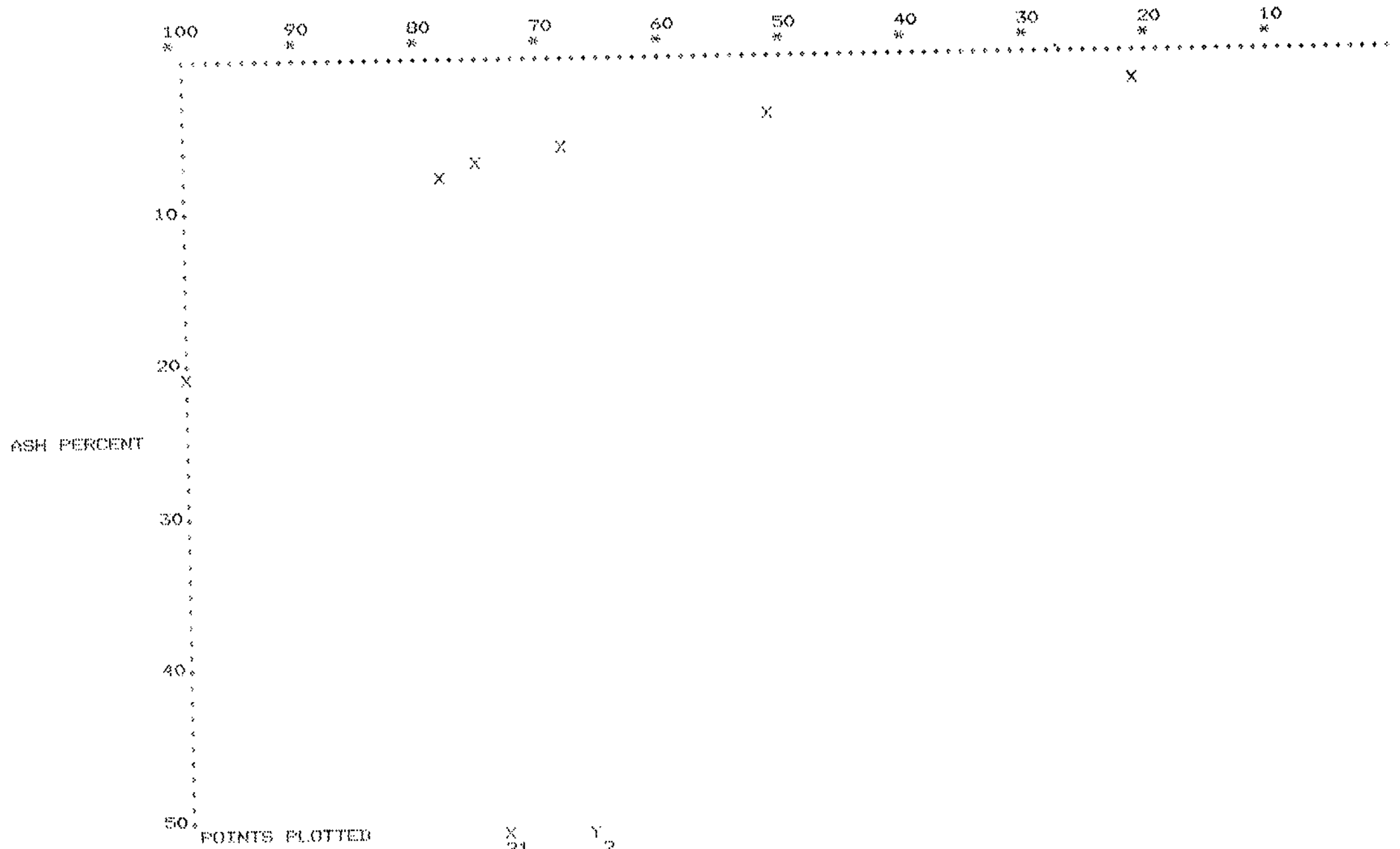
SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MESH	3026.	84.7	21.7
--28MESH	547.	15.3	14.6
FEED	3573.	100.0	20.6

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	9.40	81.65		12.50	15.74
PLUS 28	8.34	79.02	1.60	66.92	84.26
COMBINED	8.50	79.43		79.43	100.00
FLOTATION	9.40	81.65		12.50	15.40
PLUS 28	8.93	81.10	+1.60	68.69	84.60
COMBINED	9.00	81.19		81.19	100.00
FLOTATION	9.40	81.65		12.50	15.08
PLUS 28	9.52	83.11	+1.60	70.38	84.92
COMBINED	9.50	82.88		82.88	100.00
FLOTATION	9.40	81.65		12.50	14.79
PLUS 28	10.11	85.00	+1.60	71.99	85.21
COMBINED	10.00	84.49		84.49	100.00

CUMULATIVE FLOATS WEIGHT PERCENT

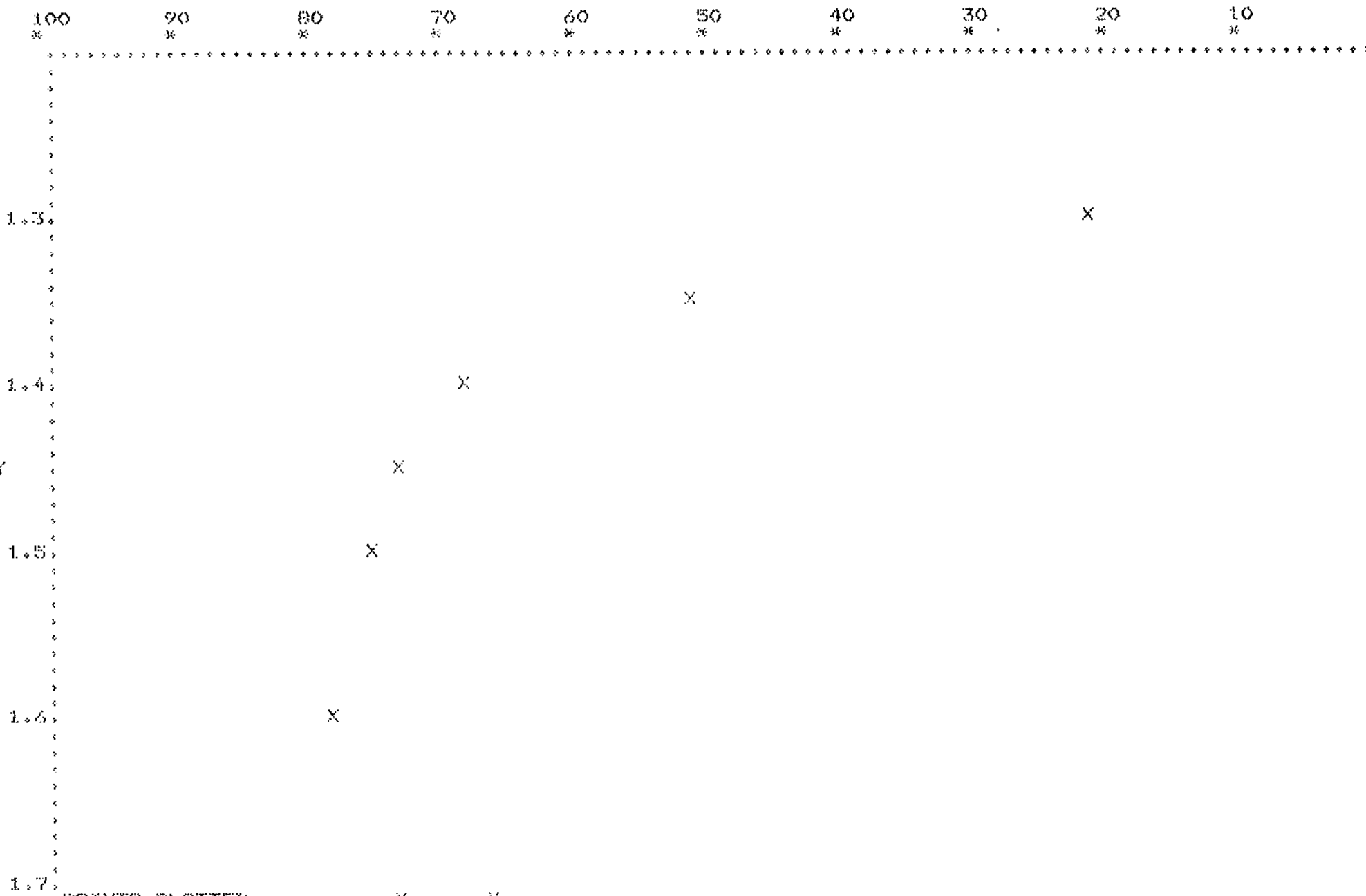


POINTS PLOTTED

X  
21  
51  
68  
73  
75  
78  
99

Y  
2  
4  
6  
6  
7  
8  
21

CUMULATIVE FLOATS WEIGHT PERCENT



SPECIFIC GRAVITY

POINTS PLOTTED

X	Y
21	10
51	15
68	20
73	25
75	30
78	40

POINTS PLotted

H. GRAIN IND. 4

COMPO NUMBER-- 44

DRILL HOLE NUMBER-- 1906

SEAM NUMBER--4704850,64851--58

4L

FLOTATION RESULTS

PRODUCT	KEROSENE WEIGHT (GMS)	.90 WEIGHT %	FROTHER .20 ASSAY		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	258.0	78.9	11.5	6.0	51.6	84.7
TAILS	69.0	21.1	40.4	1.0	48.4	15.3
CALC. HEAD	327.	100.0	17.6		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 ASH WT. %	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FST
1.30	727.	18.81	18.81	3.00	0.56	0.56	3.00	12.54	81.19	15.45	3.00	9.41	7.5
1.30-1.35	1101.	28.49	47.31	6.60	1.88	2.45	5.17	10.66	52.69	20.24	6.60	33.06	5.5
1.35-1.40	804.	20.81	68.12	11.50	2.39	4.84	7.10	8.27	31.88	25.94	11.50	57.71	2.5
1.40-1.45	572.	14.80	82.92	15.90	2.35	7.19	8.67	5.92	17.08	34.64	15.90	75.52	1.0
1.45-1.50	249.	6.44	89.36	19.40	1.25	8.44	9.45	4.67	10.64	43.88	19.40	86.14	1.0
1.50-1.60	143.	3.70	93.06	26.40	0.98	9.42	10.12	3.69	6.94	53.20	26.40	91.21	1.5
1.60 SINK	268.	6.94	100.00	53.20	3.69	13.11	13.11	0.00	0.00	0.0	53.20	96.53	1.0

## FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRF/AF	RECOVERY		AND ASH CALCULATIONS		FRAI	FRI	AP
		A	R	FR	FAR			
0.0768	0.0088	4.0	32.6	0.2946	0.0118	0.0206	.371	5.6
0.0768	0.0088	6.0	56.7	0.5118	0.0307	0.0395	.589	6.7
0.0768	0.0088	8.0	76.8	0.6935	0.0555	0.0643	.770	8.3
0.0768	0.0088	10.0	92.5	0.8346	0.0835	0.0923	.911	10.1
0.0768	0.0088	12.0	99.2	0.8956	0.1075	0.1163	.972	12.0

COMPO NUMBER-- 44

DRILL HOLE NUMBER-- 1906

SEAM NUMBER--4704850,64851-58

## DATA

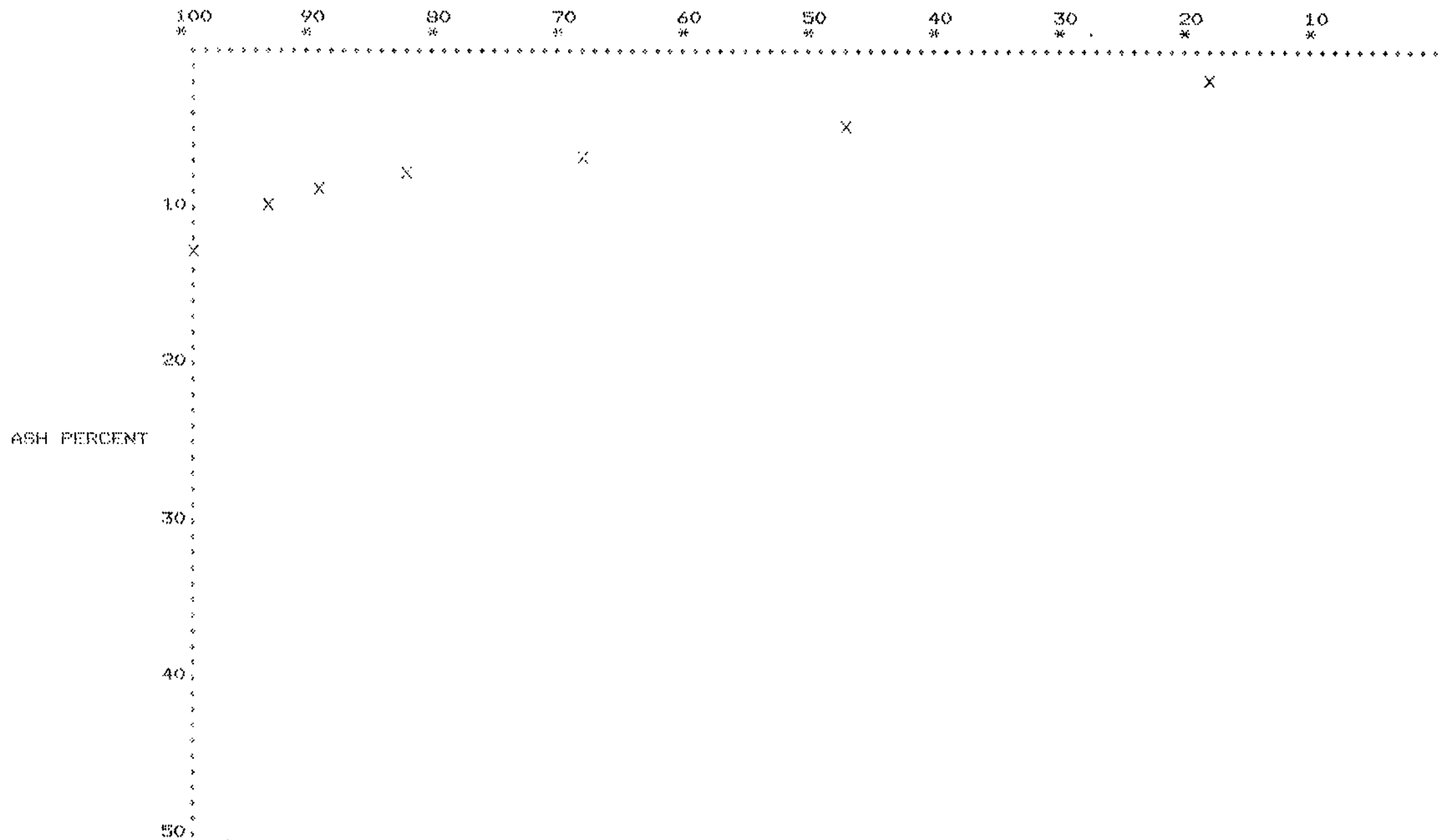
## SIZE DISTRIBUTION

SIZE	WEIGHT (GMS)	WEIGHT (%)	ASH (%)
+28MESH	4256.	90.3	13.1
-28MESH	459.	9.7	17.6
FEED	4715.	100.0	13.5

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	11.50	78.90		7.68	9.78
PLUS 28	8.18	78.46	1.43	70.82	90.22
COMBINED	8.50	78.50		78.50	100.00
FLOTATION	11.50	78.90		7.68	9.26
PLUS 28	8.73	83.41	1.46	75.29	90.74
COMBINED	9.00	82.97		82.97	100.00
FLOTATION	11.50	78.90		7.68	8.81
PLUS 28	9.28	88.09	1.49	79.52	91.19
COMBINED	9.50	87.20		87.20	100.00
FLOTATION	11.50	78.90		7.68	8.50
PLUS 28	9.84	91.63	1.56	82.71	91.50
COMBINED	10.00	90.39		90.39	100.00

CUMULATIVE FLOATS WEIGHT PERCENT

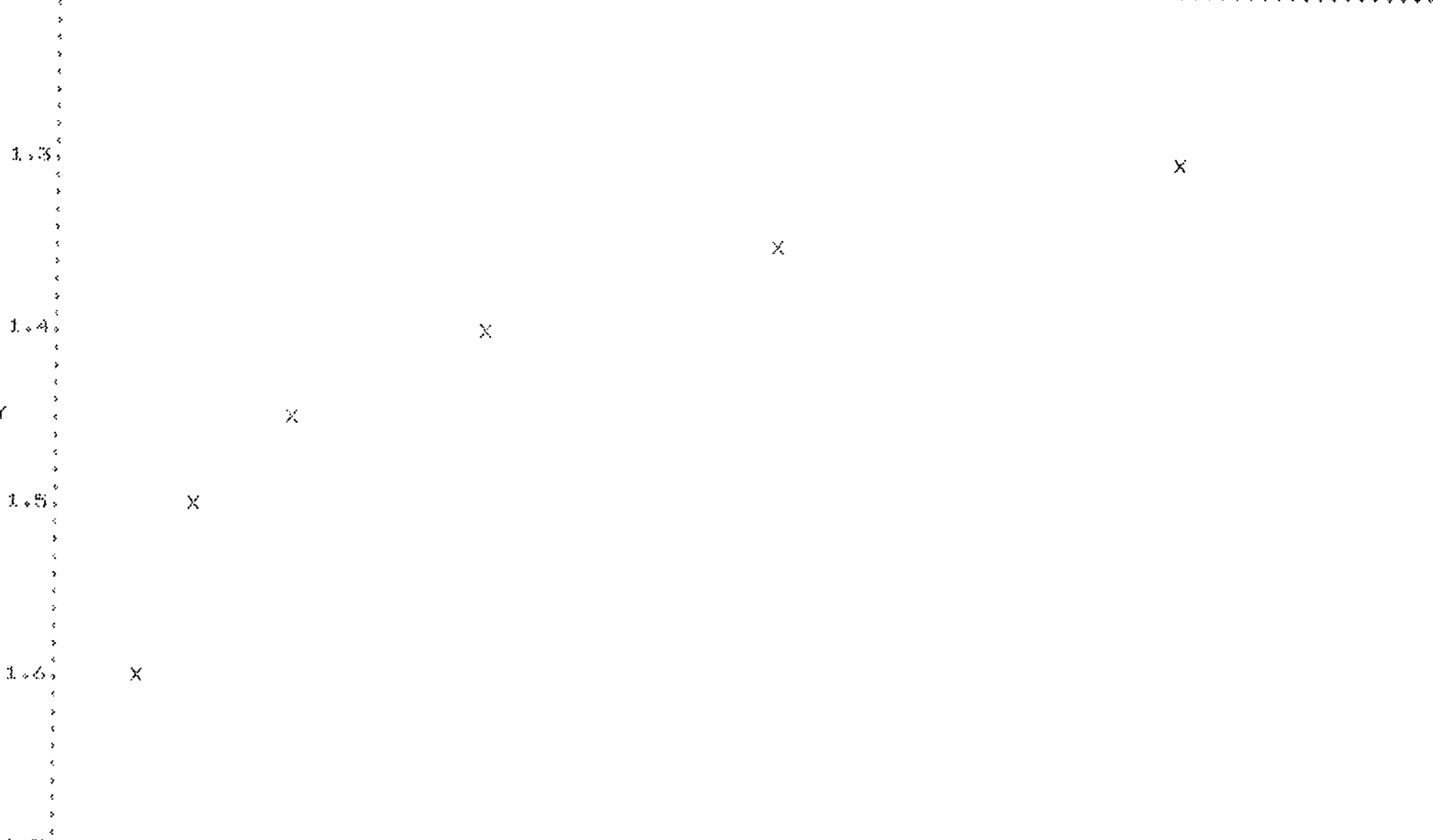


POINTS PLOTTED

X	Y
10	2
47	5
68	7
82	8
89	9
93	10
99	13

CUMULATIVE FLOATS WEIGHT PERCENT

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



SPECIFIC GRAVITY

1.7. POINTS PLOTTED

X	Y
18	10
47	15
68	20
82	25
89	30
93	40

COMPO NUMBER- 45

DRILL HOLE NUMBER- 1906

SEAM NUMBER- /

64865-65

FLOTATION RESULTS

PRODUCT	KEROSENE WEIGHT (GMS)	.90 WEIGHT %	FROTHER .20 ASSAY		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	303.0	92.4	7.6	8.0	69.1	95.0
TAILS	25.0	7.6	41.2	3.5	30.9	5.0
CALC. HEAD	328.	100.0	10.2		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	FLYS. YIELD	FSI
1.30	276.	9.64	9.64	2.80	0.27	0.27	2.80	12.91		90.36	14.29	2.80	4.82	8.5
1.30-1.35	948.	33.12	42.77	7.80	2.58	2.85	6.67	10.33		57.23	18.05	7.80	26.21	7.5
1.35-1.40	763.	26.66	69.43	11.70	3.12	5.97	8.60	7.21		30.57	23.58	11.70	56.10	7.0
1.40-1.45	417.	14.57	84.00	16.00	2.33	8.30	9.89	4.88		16.00	30.49	16.00	76.71	4.0
1.45-1.50	258.	9.01	93.01	19.40	1.75	10.05	10.81	3.13		6.99	44.79	19.40	88.50	2.0
1.50-1.60	101.	3.53	96.54	24.20	0.85	10.91	11.30	2.28		3.46	65.80	24.20	94.78	1.5
1.60 SINK	99.	3.46	100.00	65.80	2.28	13.18	13.18	0.00		0.00	0.0	65.80	98.27	1.0

FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRF/AF	RECOVERY		AND ASH CALCULATIONS		FRAI	FRI	AP
		A	R	FR	FAR			
0.1018	0.0077	4.0	17.0	0.1513	0.0061	0.0138	.253	5.4
0.1018	0.0077	6.0	35.1	0.3120	0.0187	0.0265	.414	6.4
0.1018	0.0077	8.0	61.1	0.5432	0.0435	0.0512	.645	7.9
0.1018	0.0077	10.0	85.2	0.7579	0.0758	0.0835	.860	9.7
0.1018	0.0077	12.0	99.5	0.8857	0.1063	0.1140	.988	11.5



COMPO NUMBER- 45

DRILL HOLE NUMBER-- 1906

SEAM NUMBER-- 64865--69

## DATA

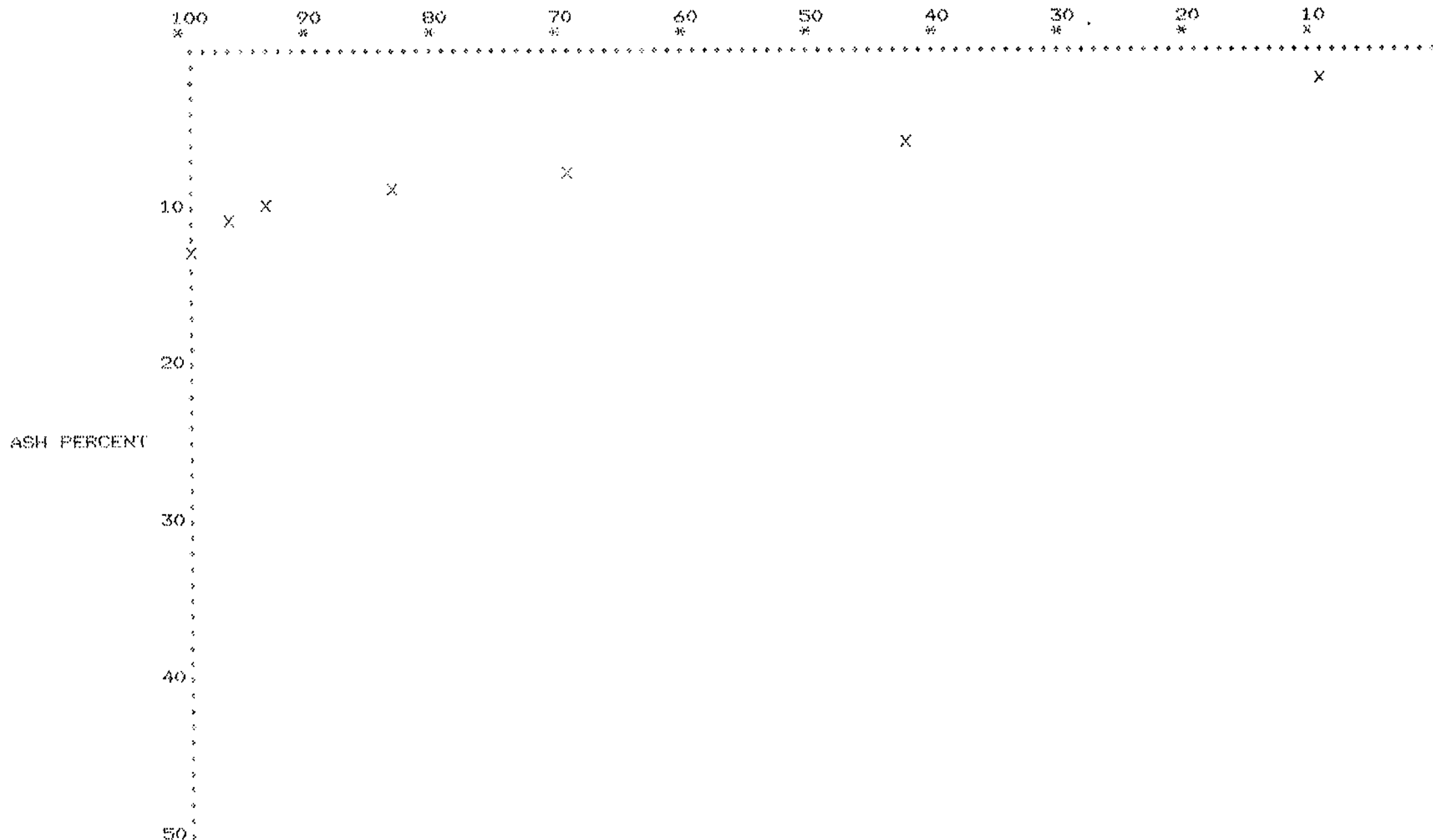
## SIZE DISTRIBUTION

SIZE	WEIGHT (GMS)	WEIGHT (%)	ASH (%)
+28MESH	3222.	89.0	13.2
-28MESH	399.	11.0	10.2
FEED	3621.	100.0	12.9

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	7.60	92.38		10.18	14.13
PLUS 28	8.61	69.54	1.40	61.88	85.87
COMBINED	8.50	72.05		72.05	100.00
FLOTATION	7.60	92.38		10.18	13.05
PLUS 28	9.17	76.21	1.42	67.81	86.95
COMBINED	9.00	77.99		77.99	100.00
FLOTATION	7.60	92.38		10.18	12.19
PLUS 28	9.74	82.42	1.44	73.34	87.81
COMBTNED	9.50	83.51		83.51	100.00
FLOTATION	7.60	92.38		10.18	11.48
PLUS 28	10.30	88.23	1.47	78.51	88.52
COMBINED	10.00	88.69		88.69	100.00

CUMULATIVE FLOATS WEIGHT PERCENT



POINTS PLOTTED

X	Y
9	2
42	6
69	8
83	9
93	10
96	11
99	13

CUMULATIVE FLOATS WEIGHT PERCENT

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



SPECIFIC GRAVITY

1.7  
 POINTS PLOTTED

X	Y
9	10
42	15
69	20
83	25
93	30
96	40

COMPO NUMBER-- 1

DRILL HOLE NUMBER-- 1909

SEAM NUMBER--

9

51276-97

FLOTATION RESULTS

KEROSENE 0.90 FROTHER 0.20

PRODUCT	WEIGHT (GMS)	WEIGHT %	ASSAY		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	306.0	93.0	5.2	7.5	67.9	94.9
TAILS	23.0	7.0	32.7	1.5	32.1	5.1
CALC. HEAD	329.	100.0	7.1		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 ASH WT. %	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	1069.	25.53	25.53	2.70	0.69	0.69	2.70	12.32	74.47	16.54	2.70	12.76	7.5
1.30-1.35	1181.	28.23	53.75	5.60	1.50	2.27	4.22	10.74	46.25	23.22	5.60	39.64	2.5
1.35-1.40	705.	17.33	71.08	9.90	1.72	3.99	5.61	9.02	28.92	31.20	9.90	62.42	1.5
1.40-1.45	385.	9.20	80.28	13.80	1.27	5.26	6.55	7.75	19.72	39.32	13.80	75.68	1.0
1.45-1.50	193.	4.61	84.89	18.40	0.85	6.10	7.19	6.90	15.11	45.70	18.40	82.59	1.0
1.50-1.60	165.	3.94	88.84	22.50	0.89	6.99	7.87	6.02	11.16	53.90	22.50	86.87	1.0
1.60 SINK	467.	11.14	100.00	53.90	4.02	13.01	13.01	0.00	0.00	0.0	53.90	94.42	1.0

FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAP	RECOVERY AND ASH CALCULATIONS		FAR		FRAI	FRI	AP
		A	R	FR	FAR			
0.0892	0.0046	4.0	50.2	0.4541	0.0182	0.0228	.543	4.2
0.0892	0.0046	6.0	75.2	0.6801	0.0408	0.0454	.769	5.9
0.0892	0.0046	8.0	89.5	0.8095	0.0648	0.0694	.899	7.7
0.0892	0.0046	10.0	97.5	0.8813	0.0881	0.0928	.970	9.6
0.0892	0.0046	12.0	***	0.9079	0.1089	0.1136	.997	11.4

COMPO NUMBER-- 1

DRILL HOLE NUMBER-- 1909

SEAM NUMBER-- 51276-97

## DATA

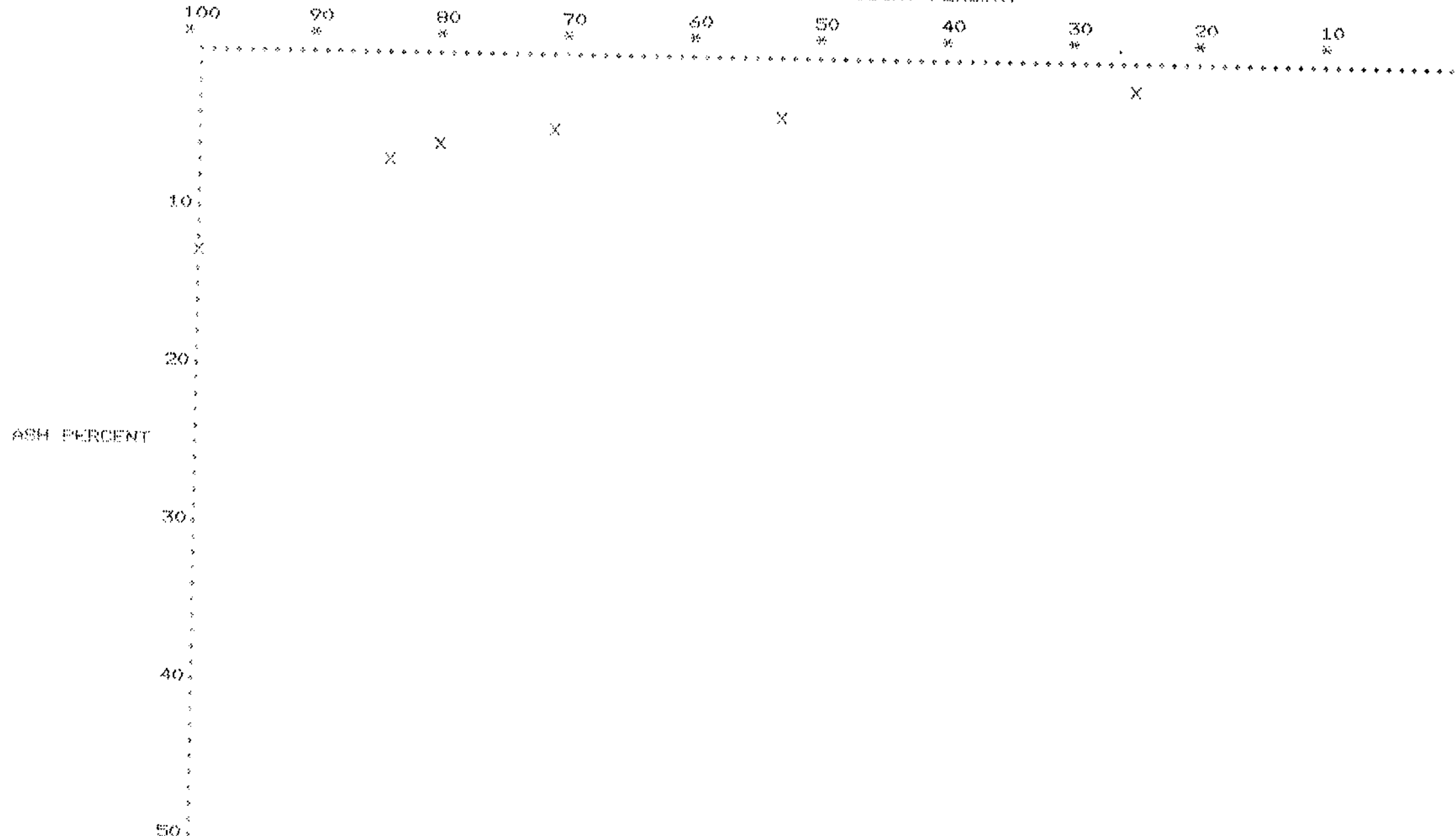
## SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MFSH	4206.	90.4	13.0
-28MFSH	446.	9.6	7.1
FEED	4652.	100.0	12.4

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	5.20	93.01		8.92	9.54
PLUS 28	8.85	93.52	+1.60	84.55	90.46
COMBTNET	8.50	93.47		93.47	100.00
FLOTATION	5.20	93.01		8.92	9.35
PLUS 28	9.40	95.63	+1.60	86.46	90.65
COMBTNET	9.00	95.37		95.37	100.00
FLOTATION	5.20	93.01		8.92	9.20
PLUS 28	9.96	97.35	+1.60	88.02	90.80
COMBTNET	9.50	96.93		96.93	100.00
FLOTATION	5.20	93.01		8.92	9.09
PLUS 28	10.51	98.69	+1.60	89.23	90.91
COMBTNET	10.00	98.15		98.15	100.00

CUMULATIVE FLOATS WEIGHT PERCENT



POINTS PLOTTED

X	Y
25	2
53	4
71	5
80	6
84	7
88	7
99	13



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
25	10
53	15
71	20
80	25
84	30
88	40

X

X

X

X

X

X

RI DRAWING 4

COMPO NUMBER--

2

DRILL HOLE NUMBER--

1909

SEAM NUMBER--

70

51299-303

## FLOTATION RESULTS

PRODUCT	KEROSENE .90		FROTHER .20		DISTRIBUTION	
	WEIGHT (GMS)	WEIGHT %	ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	308.0	93.9	6.9	7.5	70.0	96.3
TAILS	20.0	6.1	45.6	1.0	30.0	3.7
CALC. HEAD	328.	100.0	9.3		100.0	100.0
PRODUCT	KEROSENE .75		FROTHER .15		DISTRIBUTION	
	WEIGHT (GMS)	WEIGHT %	ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	296.0	90.2	6.1	8.0	65.5	92.5
TAILS	32.0	9.8	29.7	2.0	34.5	7.5
CALC. HEAD	328.	100.0	8.4		100.0	100.0

TABLE 1

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

SB	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	501.	13.18	13.18	3.00	0.40	0.40	3.00	28.91	84.82	33.30	3.00	6.59	8.0
1.30-1.35	748.	19.67	32.85	6.30	1.24	1.63	4.98	27.67	67.15	41.21	6.30	23.01	2.0
1.35-1.40	498.	13.10	45.95	10.90	1.43	3.06	6.66	26.25	54.05	48.56	10.90	39.40	2.0
1.40-1.45	347.	9.13	55.08	16.90	1.54	4.60	8.36	24.70	44.92	54.99	16.90	50.51	1.5
1.45-1.50	202.	5.31	60.39	20.40	1.08	5.69	9.42	23.62	39.61	59.63	20.40	57.73	1.0
1.50-1.60	151.	3.97	64.36	26.70	1.06	6.75	10.49	22.56	35.64	63.30	26.70	62.38	1.0
1.60 SINK	1355.	35.64	100.00	63.30	22.56	29.31	29.31	0.00	0.00	0.0	63.30	82.18	1.0

## FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAP	RECOVERY AND ASH CALCULATIONS						
		A	R	FR	FAR	FRAI	FRI	AP
0.1374	0.0084	4.0	33.7	0.2011	0.0080	0.0164	.338	4.9
0.1374	0.0084	6.0	41.2	0.3496	0.0210	0.0294	.487	6.0
0.1374	0.0084	8.0	53.3	0.4522	0.0362	0.0446	.590	7.6
0.1374	0.0084	10.0	62.7	0.5313	0.0531	0.0615	.669	9.2
0.1374	0.0084	12.0	69.6	0.5904	0.0708	0.0792	.728	10.9
0.1374	0.0084	14.0	76.0	0.6440	0.0902	0.0985	.781	12.6
0.1374	0.0084	16.0	81.6	0.6914	0.1106	0.1190	.829	14.4
0.1374	0.0084	18.0	86.4	0.7325	0.1319	0.1402	.870	16.1
0.1374	0.0084	20.0	90.5	0.7674	0.1535	0.1619	.905	17.9

COMPO NUMBER-- 2

DRILL HOLE NUMBER-- 1909

SEAM NUMBER--

51299-303

## DATA

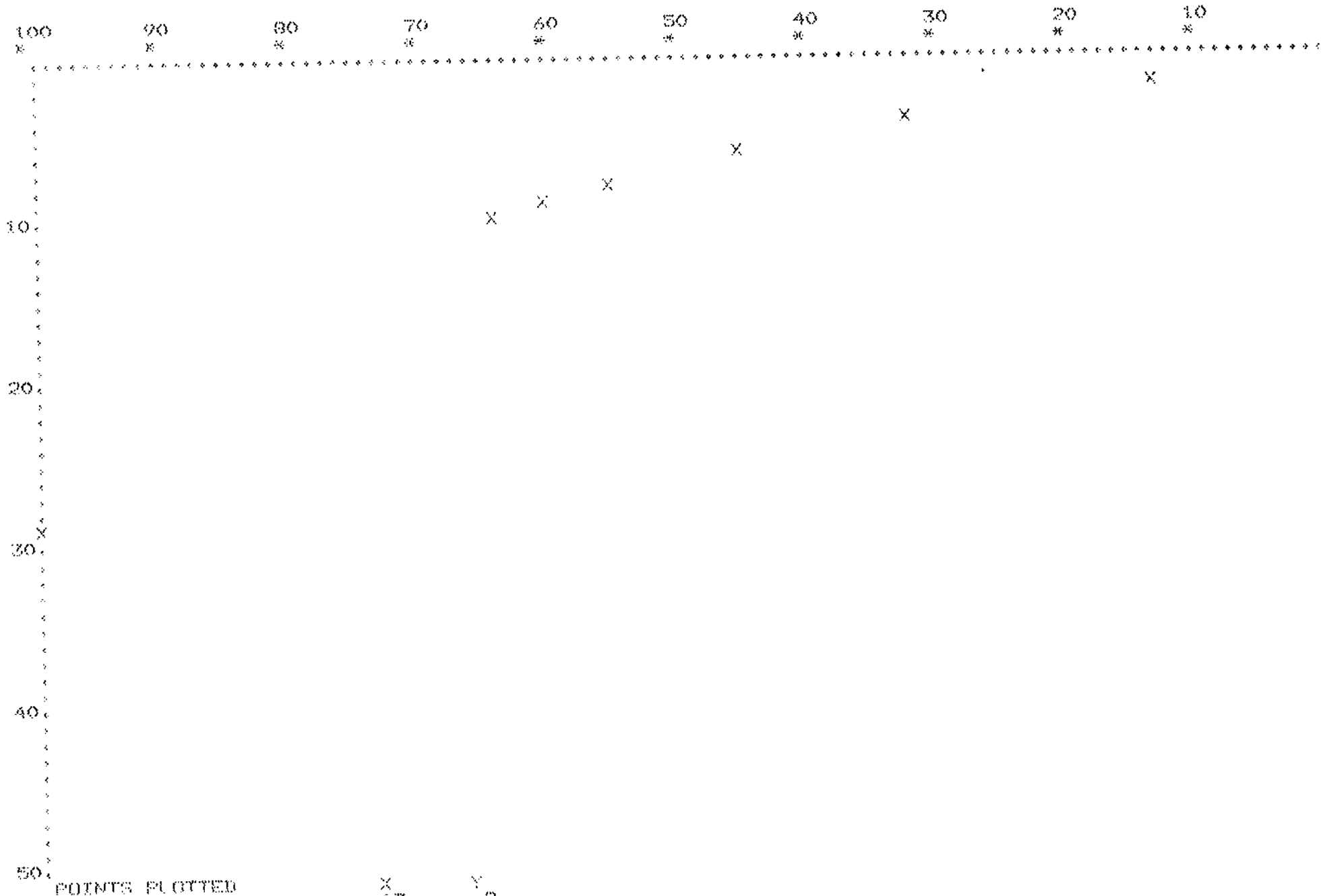
## SIZE DISTRIBUTION

SIZE	WEIGHT (GMS)	WEIGHT (%)	ASH (%)
+28MESH	3836.	84.8	29.3
--28MESH	689.	15.2	8.4
FEED	4525.	100.0	26.1

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	6.10	90.24		13.74	21.82
PLUS 28	8.93	58.07	1.47	49.23	78.18
COMBINED	8.50	62.97		62.97	100.00
FLOTATION	6.10	90.24		13.74	21.04
PLUS 28	9.52	60.82	1.51	51.56	78.96
COMBINED	9.00	65.30		65.30	100.00
FLOTATION	6.10	90.24		13.74	20.44
PLUS 28	10.11	63.07	1.56	53.47	79.56
COMBINED	9.50	67.21		67.21	100.00
FLOTATION	6.10	90.24		13.74	19.93
PLUS 28	10.70	65.13	1.60	55.22	80.07
COMBINED	10.00	68.96		68.96	100.00

CUMULATIVE FLOATS WEIGHT PERCENT

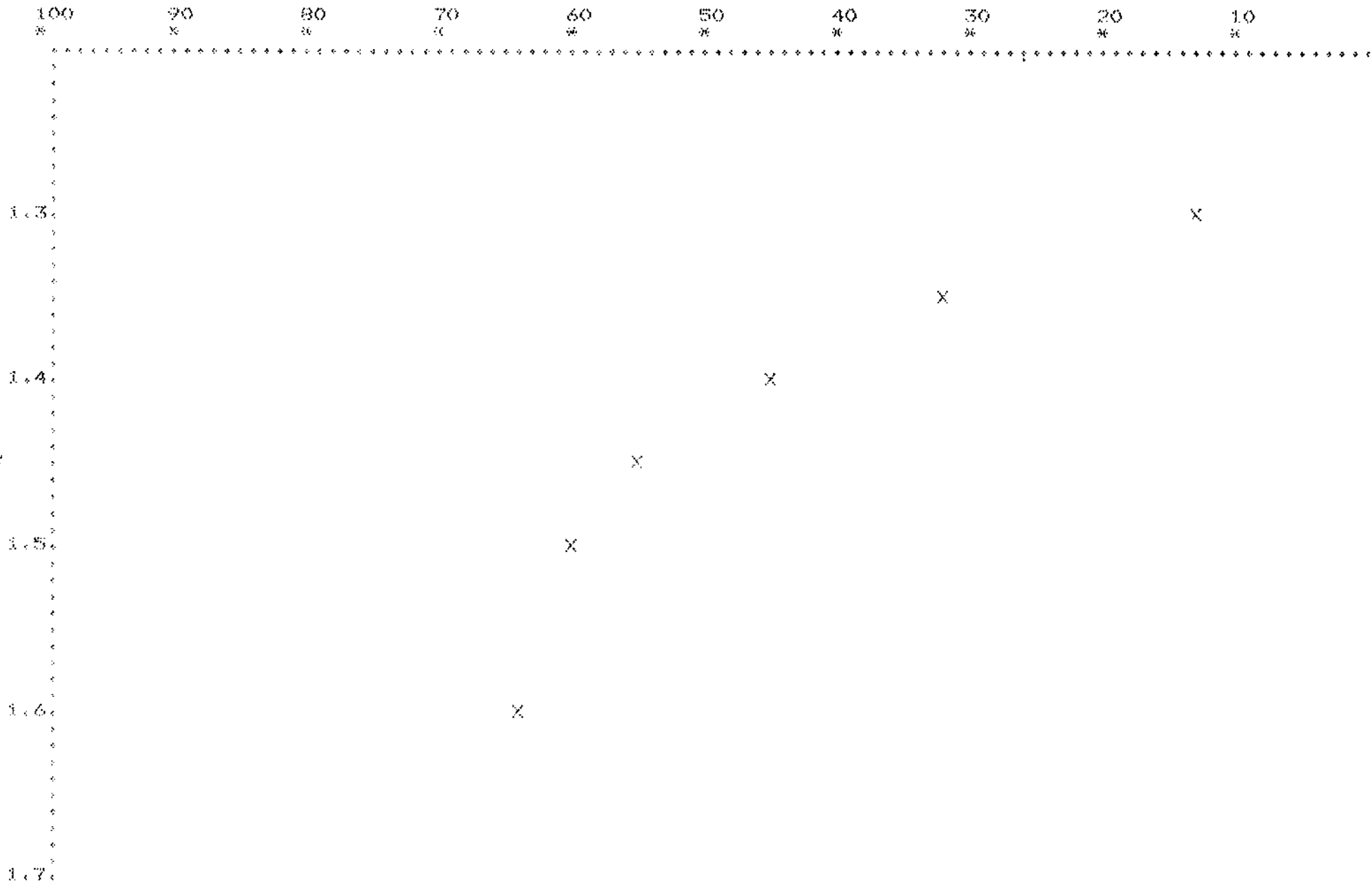


ASH PERCENT

POINTS PLOTTED

X	Y
11	2
32	4
45	6
55	8
60	9
64	10
99	29

CUMULATIVE FLOATS WEIGHT PERCENT



SPECIFIC GRAVITY

POINTS PLOTTED

X	Y
13	10
32	15
45	20
55	25
60	30
64	40

COMP# NUMBER--

3

DRILL HOLE NUMBER--

1909

SEAM NUMBER--

7

51306-13

FLOTATION RESULTS

PRODUCT	KEROSENE		FROTHER		DISTRIBUTION	
	WEIGHT (GMS)	WEIGHT %	ASSAY ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	301.0	91.8	7.5	7.5	73.1	93.7
TAILS	27.0	8.2	30.7	3.0	26.9	6.3
CALC. HEAD	328.	100.0	9.4		100.0	100.0



TABLE 1

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

SG	NT. (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	625.	16.15	16.15	3.60	0.58	0.58	3.60	22.66		83.85	27.03	3.60	8.07	8.0
1.30-1.35	559.	14.44	30.59	7.80	1.13	1.71	5.58	21.54		69.41	31.03	7.80	23.37	6.5
1.35-1.40	592.	15.29	45.88	12.10	1.85	3.56	7.76	19.69		54.12	36.37	12.10	38.23	3.5
1.40-1.45	499.	12.89	58.77	15.80	2.04	5.59	9.52	17.65		41.23	42.81	15.80	52.32	1.5
1.45-1.50	290.	7.49	66.26	21.30	1.60	7.19	10.85	16.05		33.74	47.58	21.30	62.52	1.0
1.50-1.60	362.	9.35	75.61	27.20	2.54	9.73	12.87	13.51		24.39	55.40	27.20	70.94	1.0
1.60 SINK	944.	24.39	100.00	55.40	13.51	23.24	23.24	0.0		0.00	0.0	55.40	87.81	1.0

FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAF	RECOVERY		AND ASH CALCULATIONS		FRAI	FRI	AF
		A	R	FR	FAR			
0.1218	0.0091	4.0	19.1	0.1656	0.0066	0.0158	.287	5.5
0.1218	0.0091	6.0	33.5	0.2907	0.0174	0.0266	.412	6.4
0.1218	0.0091	8.0	47.8	0.4143	0.0331	0.0423	.536	7.9
0.1218	0.0091	10.0	61.7	0.5347	0.0535	0.0626	.656	9.5
0.1218	0.0091	12.0	71.8	0.6229	0.0747	0.0839	.745	11.3
0.1218	0.0091	14.0	80.2	0.6953	0.0973	0.1065	.817	13.0
0.1218	0.0091	16.0	87.1	0.7556	0.1209	0.1300	.877	14.8
0.1218	0.0091	18.0	92.6	0.8031	0.1446	0.1537	.925	16.6
0.1218	0.0091	20.0	96.6	0.8379	0.1676	0.1767	.960	18.4

COMPO NUMBER-- 3

DRILL HOLE NUMBER-- 1909

SEAM NUMBER-- 51306-13

DATA

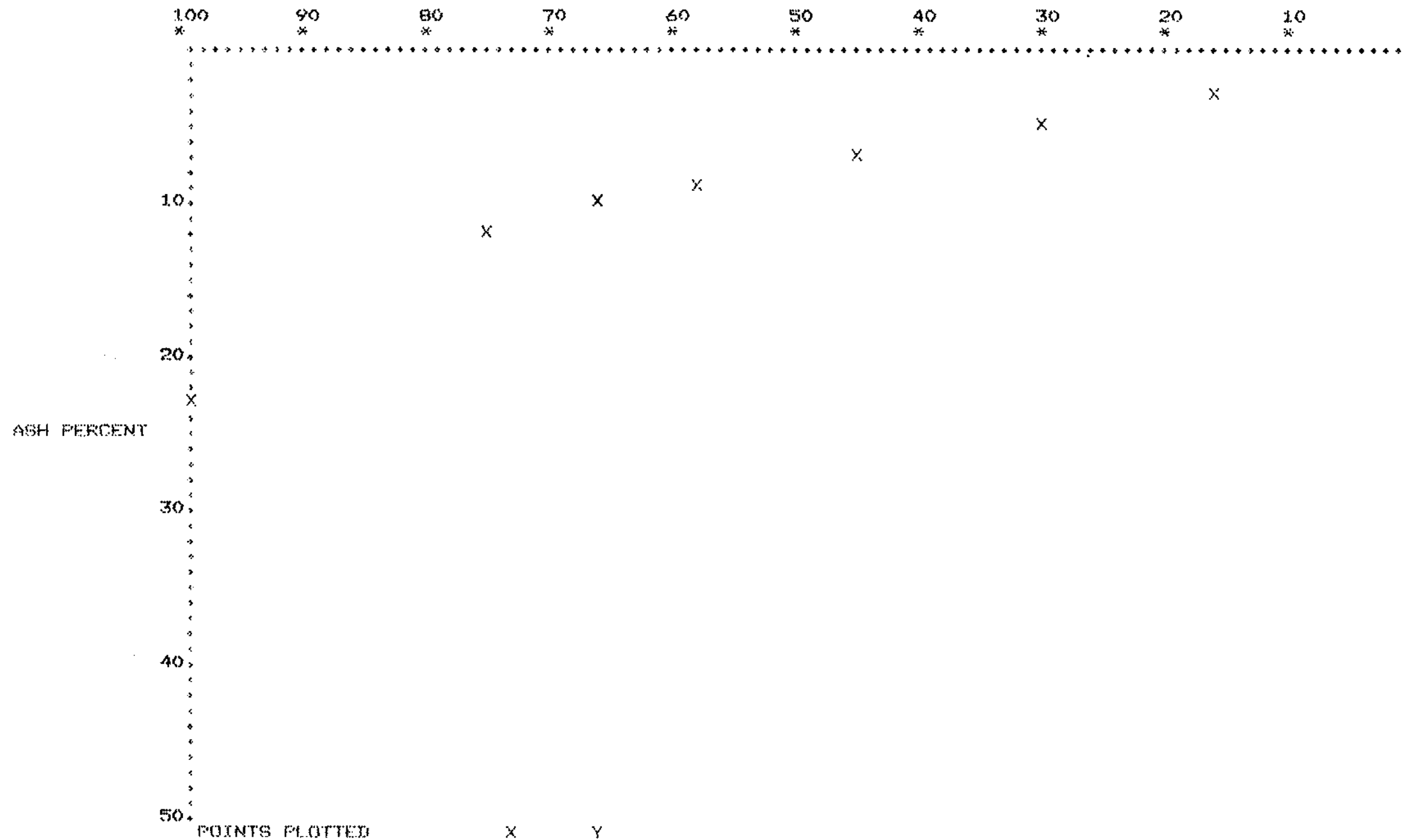
SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+20MESH	3902.	86.7	23.2
-20MESH	597.	13.3	9.4
FEED	4499.	100.0	21.4

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	7.50	91.77		12.18	21.06
PLUS 28	8.65	52.63	1.42	45.65	78.94
COMBINED	8.50	57.83		57.83	100.00
FLOTATION	7.50	91.77		12.18	19.83
PLUS 28	9.23	56.76	1.44	49.23	80.17
COMBINED	9.00	61.41		61.41	100.00
FLOTATION	7.50	91.77		12.18	18.83
PLUS 28	9.81	60.52	1.46	52.49	81.17
COMBINED	9.50	64.66		64.66	100.00
FLOTATION	7.50	91.77		12.18	18.04
PLUS 28	10.38	63.80	1.48	55.34	81.96
COMBINED	10.00	67.51		67.51	100.00

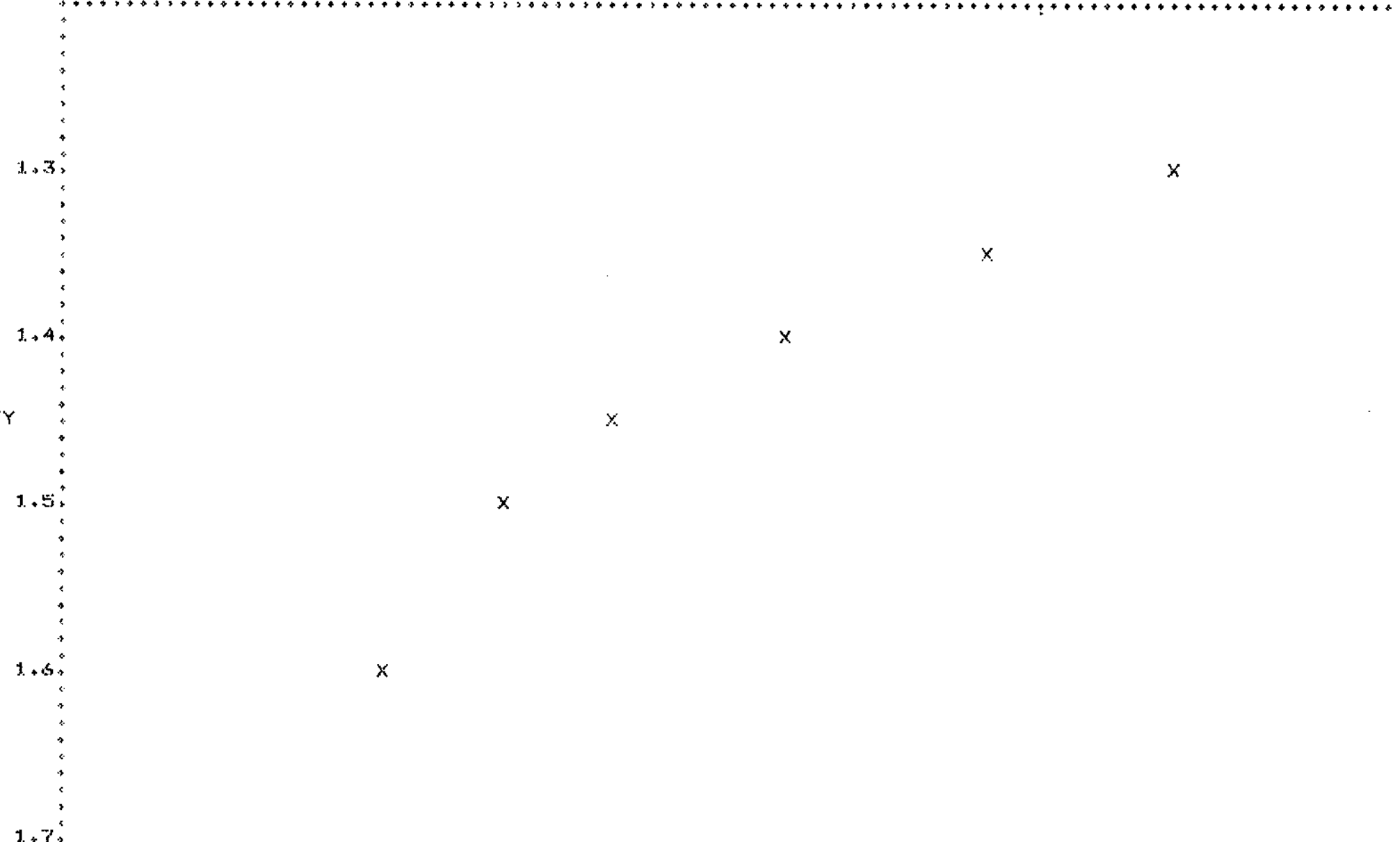
CUMULATIVE FLOATS WEIGHT PERCENT



X	Y
16	3
30	5
45	7
58	9
66	10
75	12
99	23

CUMULATIVE FLOATS WEIGHT PERCENT

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



SPECIFIC GRAVITY

POINTS PLOTTED

X	Y
16	10
30	15
45	20
58	25
66	30
75	40

COMFO NUMBER-- 4

DRILL HOLE NUMBER-- 1909

SEAM NUMBER-- 50 51316-10

\*\* NO FLOTATION RUNS \*\*

HEAD SAMPLE

WEIGHT %	ASSAY	
	ASH	FSI
100.0	9.2	7.5

TABLE 1

WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

SO	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	205.	10.80	10.80	3.00	0.32	0.32	3.00	18.21	89.20	20.42	3.00	5.40	7.0	
1.30-1.35	502.	26.43	37.23	6.40	1.69	2.02	5.41	16.52	62.77	26.32	6.40	24.01	2.5	
1.35-1.40	470.	24.75	61.98	11.40	2.82	4.84	7.80	13.70	38.02	36.03	11.40	49.61	2.0	
1.40-1.45	236.	12.43	74.41	16.70	2.08	6.91	9.29	11.62	25.59	45.42	16.70	68.19	1.5	
1.45-1.50	145.	7.64	82.04	21.80	1.66	8.58	10.45	9.96	17.96	55.46	21.80	78.23	1.0	
1.50-1.60	92.	4.84	86.89	29.90	1.45	10.03	11.54	8.51	13.11	64.90	29.90	84.47	2.5	
1.60 SINK	249.	13.11	100.00	64.90	8.51	18.54	18.54	0.0	0.00	0.0	64.90	93.44	1.0	

FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAP	RECOVERY AND ASH CALCULATIONS						
		A	R	FR	FAR	FRAI	FRI	AP
0.0	0.0	4.0	21.9	0.1976	0.0079	0.0079	.198	4.0
0.0	0.0	6.0	43.6	0.3934	0.0236	0.0236	.393	6.0
0.0	0.0	8.0	63.8	0.5751	0.0460	0.0460	.575	8.0
0.0	0.0	10.0	79.4	0.7155	0.0716	0.0716	.716	10.0
0.0	0.0	12.0	88.7	0.7999	0.0960	0.0960	.800	12.0
0.0	0.0	14.0	95.1	0.8573	0.1200	0.1200	.857	14.0
0.0	0.0	16.0	98.9	0.8915	0.1426	0.1426	.891	16.0
0.0	0.0	18.0	****	0.9025	0.1625	0.1625	.903	18.0



COMPO NUMBER-- 4

DRILL HOLE NUMBER-- 1909

SEAM NUMBER-- 51316-18

## DATA

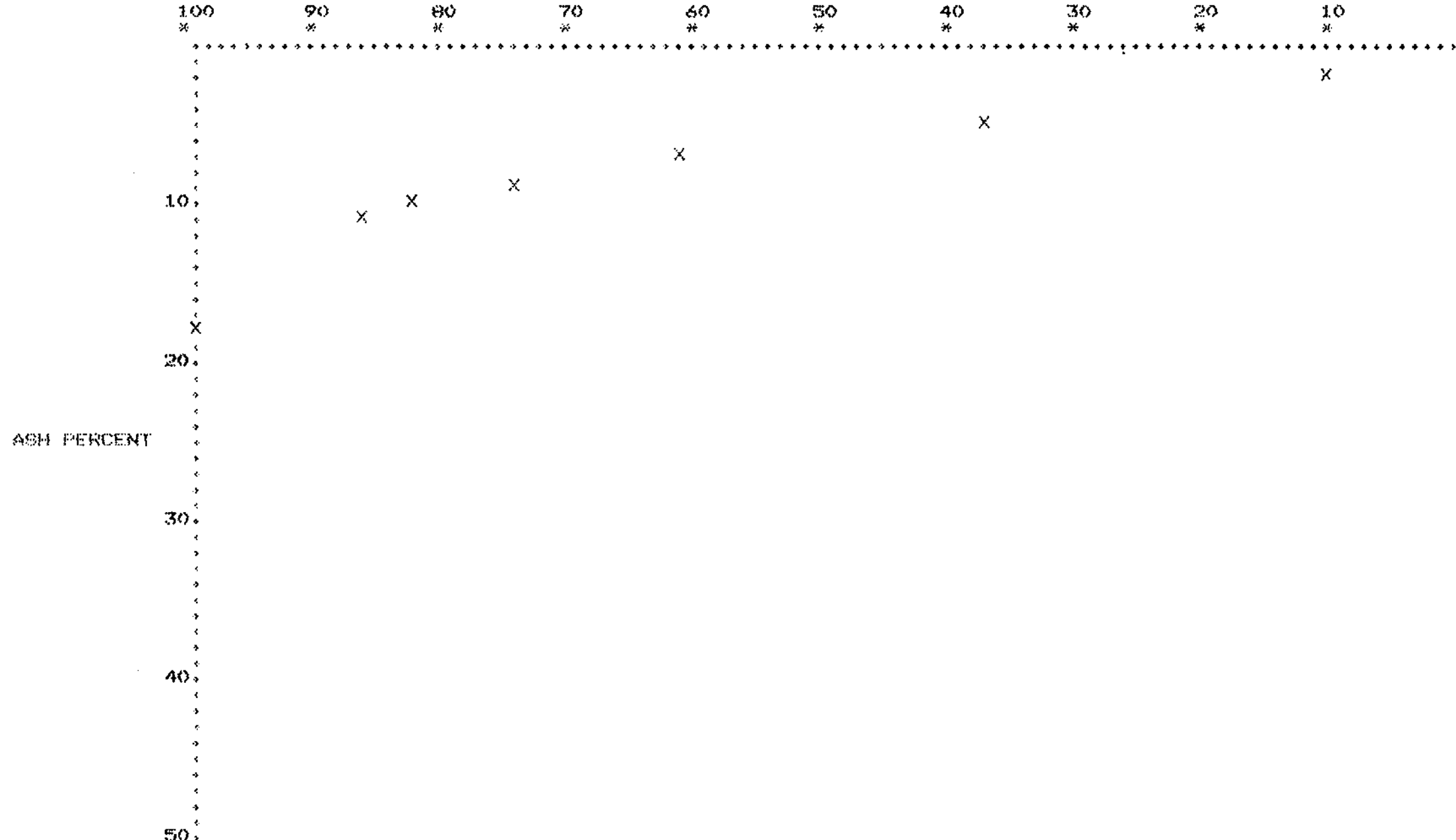
## SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MESH	1916.	90.2	18.5
-28MESH	209.	9.8	9.2
FEED	2125.	100.0	17.6

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	9.43	75.45	1.46	68.03	100.00
COMBINED	8.50	68.03		68.03	100.00
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	9.98	79.24	1.48	71.45	100.00
COMBINED	9.00	71.45		71.45	100.00
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	10.54	82.48	1.51	74.37	100.00
COMBINED	9.50	74.37		74.37	100.00
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	11.09	85.09	1.55	76.72	100.00
COMBINED	10.00	76.72		76.72	100.00

CUMULATIVE FLOATS WEIGHT PERCENT



POINTS PLOTTED

X	Y
10	18
37	3
61	7
74	9
82	10
86	11
99	18

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RL CRAIN INC. - 4

CUMULATIVE FLOATS WEIGHT PERCENT

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



SPECIFIC GRAVITY

POINTS PLOTTED

X	Y
10	10
37	15
61	20
74	25
82	30
86	40

COMPO NUMBER-- 5

DRILL HOLE NUMBER-- 1909

SEAM NUMBER--51322-2551251-52

*5 lower*

FLOTATION RESULTS

PRODUCT	KEROSENE WEIGHT (GMS)	.90 WEIGHT %	FROTHER .20		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	313.0	95.4	7.9	6.5	77.2	97.4
TAILS	15.0	4.6	48.6	1.0	22.8	2.6
CALC. HEAD	328.	100.0	9.8		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 ASH WT. %	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	214.	5.85	5.85	2.50	0.15	0.15	2.50	17.54	94.15	18.62	2.50	2.92	8.5
1.30-1.35	722.	19.72	25.57	6.20	1.22	1.37	5.35	16.31	74.43	21.92	6.20	15.71	1.5
1.35-1.40	1184.	32.34	57.91	10.10	3.27	4.64	8.00	13.05	42.09	31.00	10.10	41.74	1.0
1.40-1.45	313.	8.55	66.46	15.90	1.36	5.99	9.02	11.69	33.54	34.84	15.90	62.18	1.0
1.45-1.50	243.	6.64	73.09	21.20	1.41	7.40	10.13	10.28	26.91	38.21	21.20	69.78	1.0
1.50-1.60	462.	12.62	85.71	26.90	3.39	10.80	12.60	6.89	14.29	48.20	26.90	79.40	1.0
1.60 SINK	523.	14.29	100.00	48.20	6.89	17.68	17.68	0.0	0.00	0.0	48.20	92.86	1.0

## FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAP	RECOVERY AND ASH CALCULATIONS				FRAI	FRI	AP
		A	R	FR	FAR			
0.0991	0.0078	4.0	14.3	0.1278	0.0051	0.0129	.227	5.7
0.0991	0.0078	6.0	33.5	0.3002	0.0180	0.0258	.399	6.5
0.0991	0.0078	8.0	57.9	0.5185	0.0415	0.0493	.618	8.0
0.0991	0.0078	10.0	72.5	0.6493	0.0649	0.0728	.748	9.7
0.0991	0.0078	12.0	83.0	0.7436	0.0892	0.0971	.843	11.5
0.0991	0.0078	14.0	91.2	0.8176	0.1145	0.1223	.917	13.3
0.0991	0.0078	16.0	97.0	0.8694	0.1391	0.1469	.969	15.2

COMPO NUMBER-- 5

DRILL HOLE NUMBER-- 1909

SEAM NUMBER--51322-2551251-52

DATA

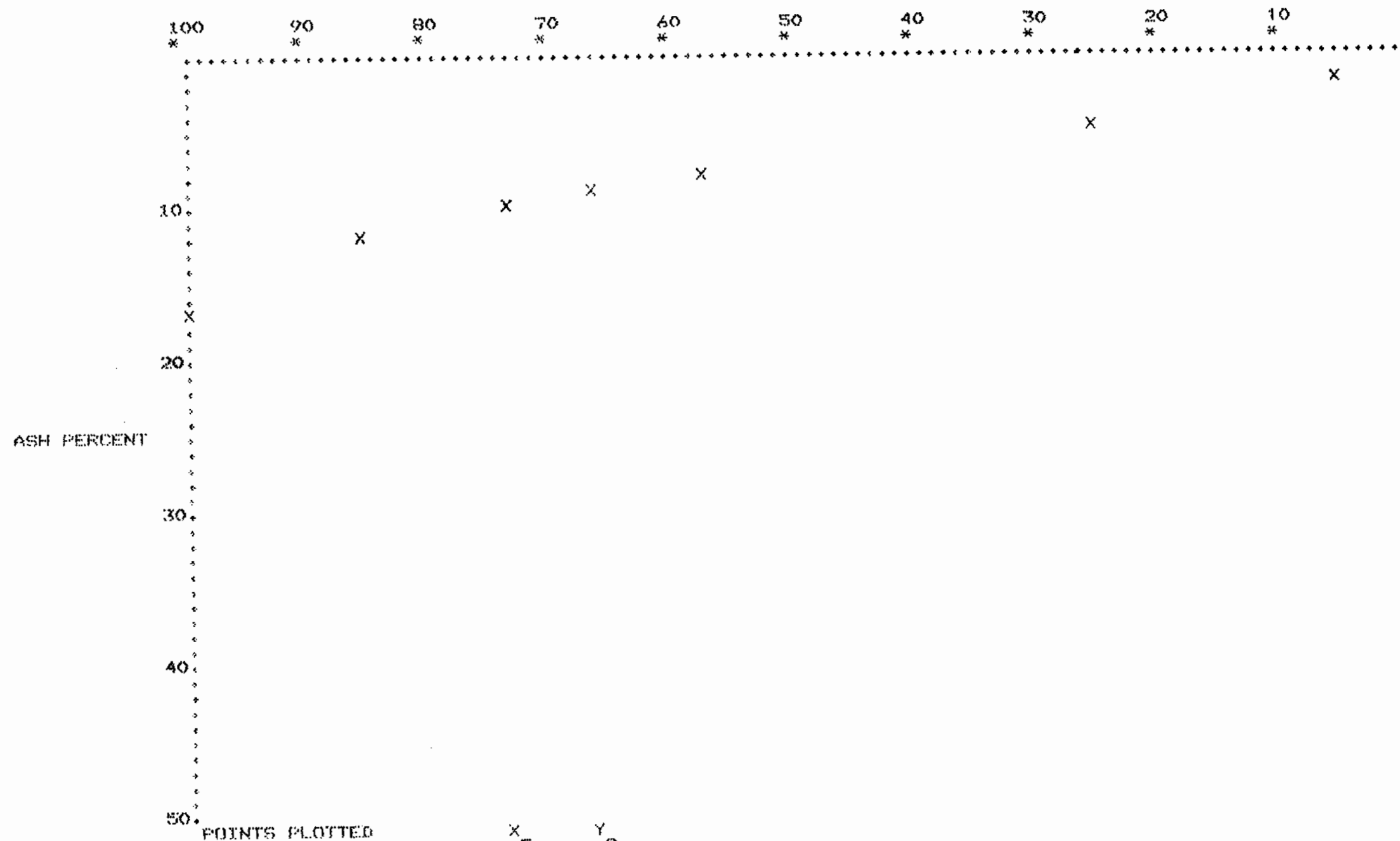
SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MESH	3668.	89.6	17.7
--28MESH	425.	10.4	9.8
FEED	4093.	100.0	16.9

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	7.90	95.43		9.91	14.94
PLUS 28	8.57	62.97	1.43	56.43	85.06
COMBINED	8.50	66.34		66.34	100.00
FLOTATION	7.90	95.43		9.91	14.13
PLUS 28	9.13	67.21	1.46	60.23	85.87
COMBINED	9.00	70.14		70.14	100.00
FLOTATION	7.90	95.43		9.91	13.53
PLUS 28	9.69	70.69	1.48	63.35	86.47
COMBINED	9.50	73.26		73.26	100.00
FLOTATION	7.90	95.43		9.91	13.03
PLUS 28	10.24	73.77	1.51	66.11	86.97
COMBINED	10.00	76.02		76.02	100.00

CUMULATIVE FLOATS WEIGHT PERCENT



POINTS PLOTTED

X	Y
5	2
25	5
57	8
66	9
73	10
85	12
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
25	10
57	15
66	20
73	25
85	30
	40

COMPO NUMBER-- 6

DRILL HOLE NUMBER-- 1909

SEAM NUMBER-- 51253-64

*Upper*

FLOTATION RESULTS

PRODUCT	KEROSENE WEIGHT (GMS)	.90 WEIGHT %	FROTHER .20		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	311.0	94.2	6.4	7.0	70.7	96.4
TAILS	19.0	5.8	43.5	1.0	29.3	3.6
CALC. HEAD	330.	100.0	8.5		100.0	100.0

TABLE J

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	800.	19.57	19.57	2.40	0.47	0.47	2.40	12.84	80.43	15.96	2.40	9.78	8.5
1.30-1.35	1155.	28.25	47.82	6.20	1.75	2.22	4.65	11.09	52.18	21.25	6.20	33.70	2.5
1.35-1.40	1006.	24.61	72.43	10.30	2.53	4.76	6.57	8.55	27.57	31.02	10.30	60.13	1.5
1.40-1.45	352.	8.61	81.04	15.20	1.31	6.06	7.48	7.24	18.96	38.21	15.20	76.74	1.0
1.45-1.50	162.	3.96	85.00	19.70	0.78	6.85	8.05	6.46	15.00	43.10	19.70	83.02	1.0
1.50-1.60	154.	3.77	88.77	26.10	0.98	7.83	8.82	5.48	11.23	48.80	26.10	86.89	1.0
1.60 SINK	459.	11.23	100.00	48.80	5.48	13.31	13.31	0.00	0.00	0.0	48.80	94.39	1.0

FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAF	RECOVERY		AND ASH CALCULATIONS		FRAI	FRI	AP
		A	R	FR	FAR			
0.0940	0.0060	4.0	39.7	0.3570	0.0143	0.0203	.451	4.5
0.0940	0.0060	6.0	65.6	0.5908	0.0354	0.0415	.685	6.1
0.0940	0.0060	8.0	84.8	0.7631	0.0610	0.0671	.857	7.8
0.0940	0.0060	10.0	93.5	0.8420	0.0842	0.0902	.936	9.6
0.0940	0.0060	12.0	98.6	0.8881	0.1066	0.1126	.982	11.5

COMPO NUMBER- 6

DRILL HOLE NUMBER- 1909

SEAM NUMBER- 51253-64

DATA

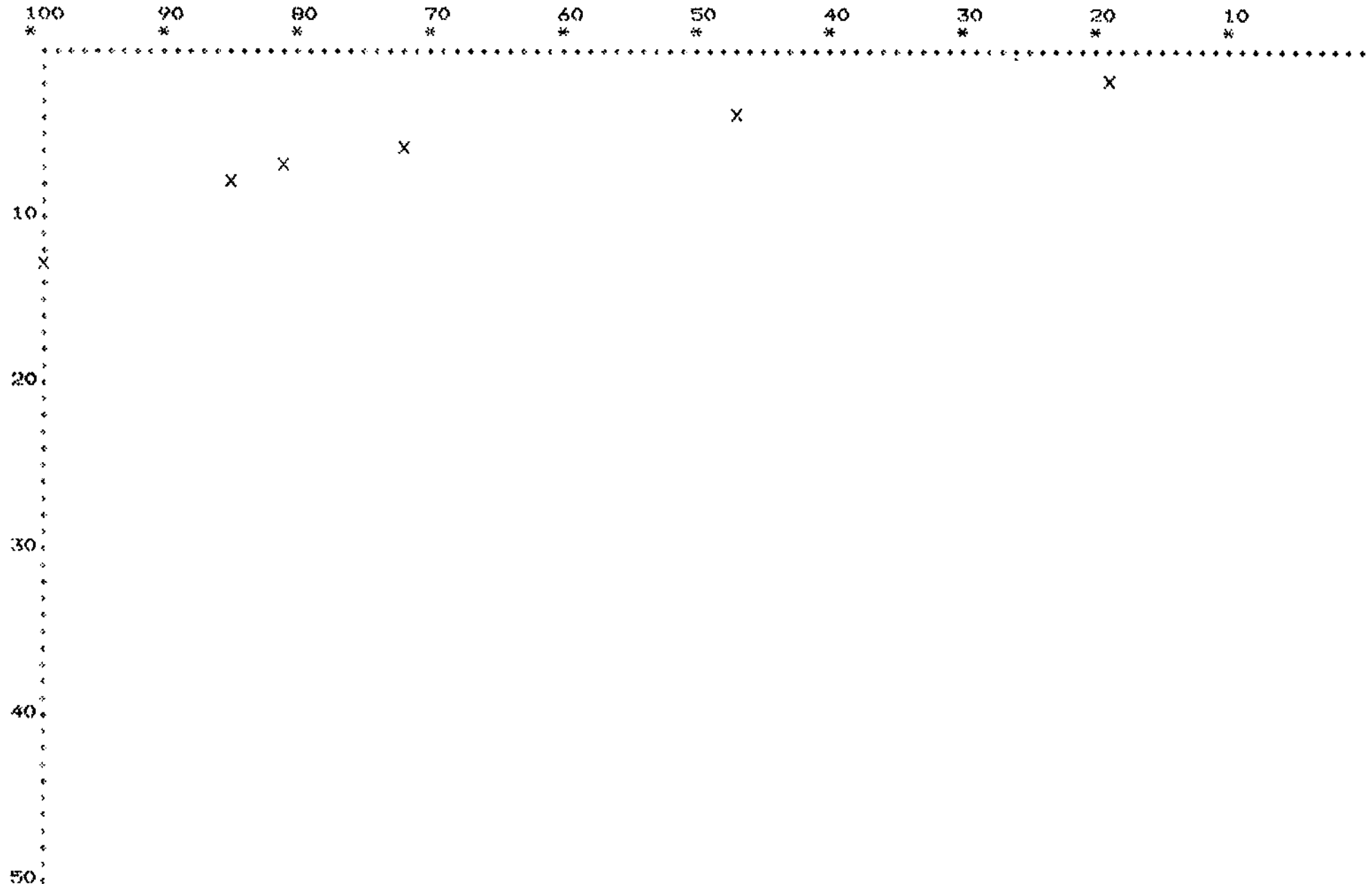
SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MESH	4116.	90.0	13.3
-28MESH	456.	10.0	8.5
FEED	4572.	100.0	12.8

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	6.40	94.24		9.40	10.56
PLUS 28	8.73	88.45	1.59	79.63	89.44
COMBINED	8.50	89.03		89.03	100.00
FLOTATION	6.40	94.24		9.40	10.31
PLUS 28	9.29	90.81	+1.60	81.76	89.69
COMBINED	9.00	91.16		91.16	100.00
FLOTATION	6.40	94.24		9.40	10.10
PLUS 28	9.84	92.97	+1.60	83.70	89.90
COMBINED	9.50	93.10		93.10	100.00
FLOTATION	6.40	94.24		9.40	9.92
PLUS 28	10.40	94.84	+1.60	85.38	90.08
COMBINED	10.00	94.78		94.78	100.00

CUMULATIVE FLOATS WEIGHT PERCENT



ASH PERCENT

POINTS PLOTTED

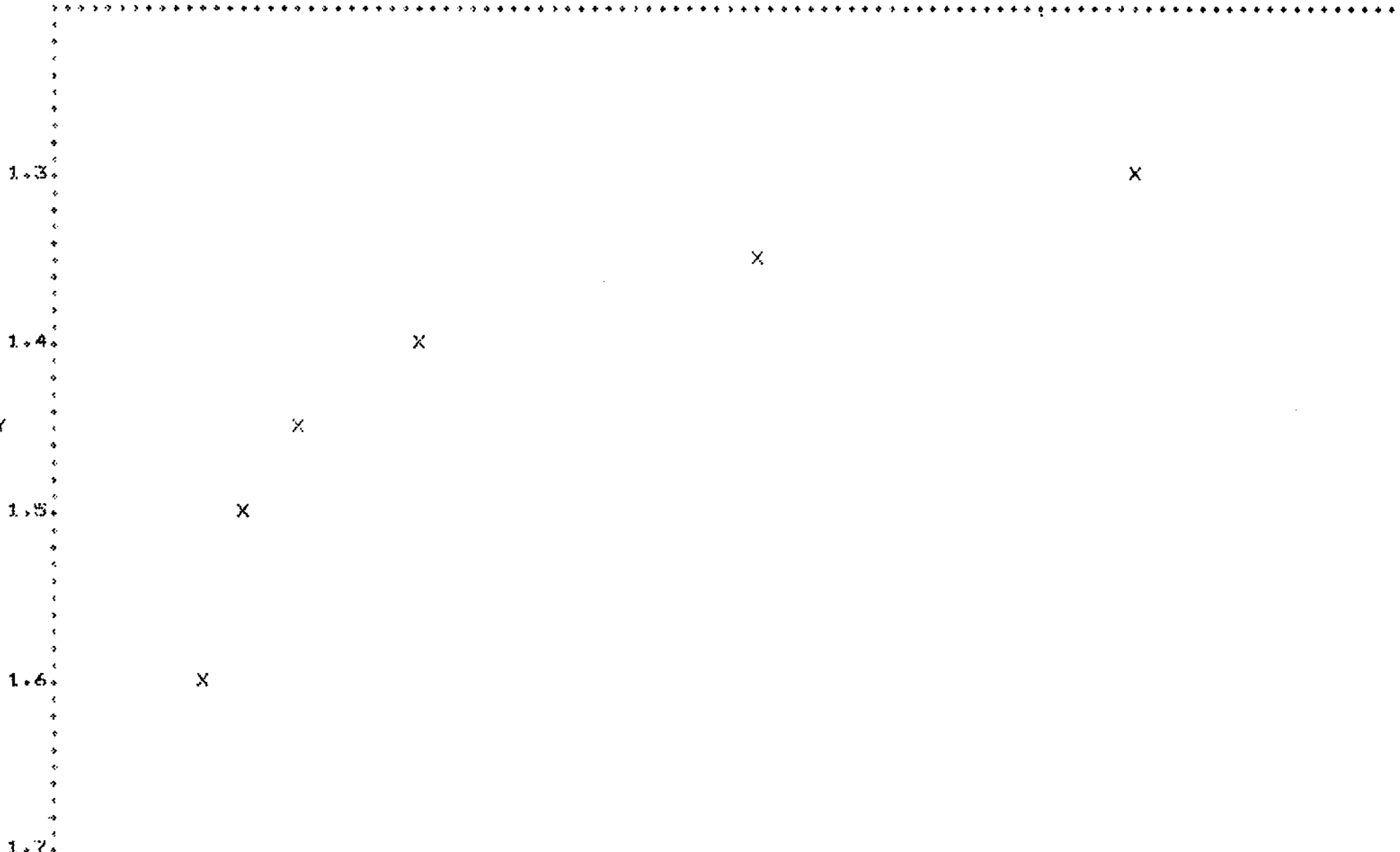
X	Y
19	2
47	4
72	6
81	7
85	8
88	8
99	13

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R.L. CRAIN INC. - 4

CUMULATIVE FLOATS WEIGHT PERCENT

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



SPECIFIC GRAVITY

POINTS PLOTTED

X	Y
19	10
47	15
72	20
81	25
85	30
88	40

COMPO NUMBER-- 7

DRILL HOLE NUMBER-- 1909

SEAM NUMBER-- 51268-74

*A lower*

FLOTATION RESULTS

PRODUCT	KEROSENE WEIGHT (GMS)	.90 WEIGHT %	FROTHER .20		DISTRIBUTION	
			ASSAY ASH	FBI	ASH	CLEAN COAL
CONCENTRATE	275.0	89.1	9.4	6.0	60.7	87.6
TAILS	52.0	15.9	32.2	1.0	39.3	12.4
CALC. HEAD	327.	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 ASH WT. %	CUM. SINKS WT. %	CUM. SINKS ASH %	ASH CONTENT	FLTS. YIELD	FBI
1.20	735.	19.41	19.41	2.60	0.50	0.50	2.60	19.10	80.59	23.70	2.60	9.70	7.5
1.30-1.35	930.	24.56	43.97	5.70	1.40	1.90	4.33	17.70	56.03	31.59	5.70	31.69	3.5
1.35-1.40	708.	18.70	62.66	10.20	1.91	3.81	6.08	15.79	37.34	42.30	10.20	53.31	1.5
1.40-1.45	202.	5.33	68.00	15.30	0.82	4.63	6.81	14.98	32.00	46.80	15.30	65.33	1.0
1.45-1.50	130.	3.43	71.43	21.20	0.73	5.36	7.50	14.25	28.57	49.87	21.20	69.71	1.0
1.50-1.60	139.	3.67	75.10	27.30	1.00	6.36	8.47	13.25	24.90	53.20	27.30	73.26	1.0
1.60 SINK	943.	24.90	100.00	53.20	13.25	19.60	19.60	0.0	0.00	0.0	53.20	87.55	0.5

FDR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRF/AF	RECOVERY		AND ASH CALCULATIONS		FRAI	FRI	AF
		A	R	FR	FAR			
0.1239	0.0117	4.0	39.7	0.3388	0.0136	0.0252	.463	5.4
0.1239	0.0117	6.0	61.9	0.5281	0.0317	0.0433	.652	6.6
0.1239	0.0117	8.0	73.4	0.6262	0.0501	0.0617	.750	8.2
0.1239	0.0117	10.0	80.4	0.6857	0.0686	0.0802	.810	9.9
0.1239	0.0117	12.0	86.5	0.7371	0.0885	0.1001	.861	11.6
0.1239	0.0117	14.0	91.5	0.7798	0.1092	0.1208	.904	13.4
0.1239	0.0117	16.0	95.4	0.8137	0.1302	0.1418	.938	15.1
0.1239	0.0117	18.0	98.4	0.8388	0.1510	0.1626	.963	16.9

COMPO NUMBER- 7

DRILL HOLE NUMBER- 1909

SEAM NUMBER- 51268-74

DATA

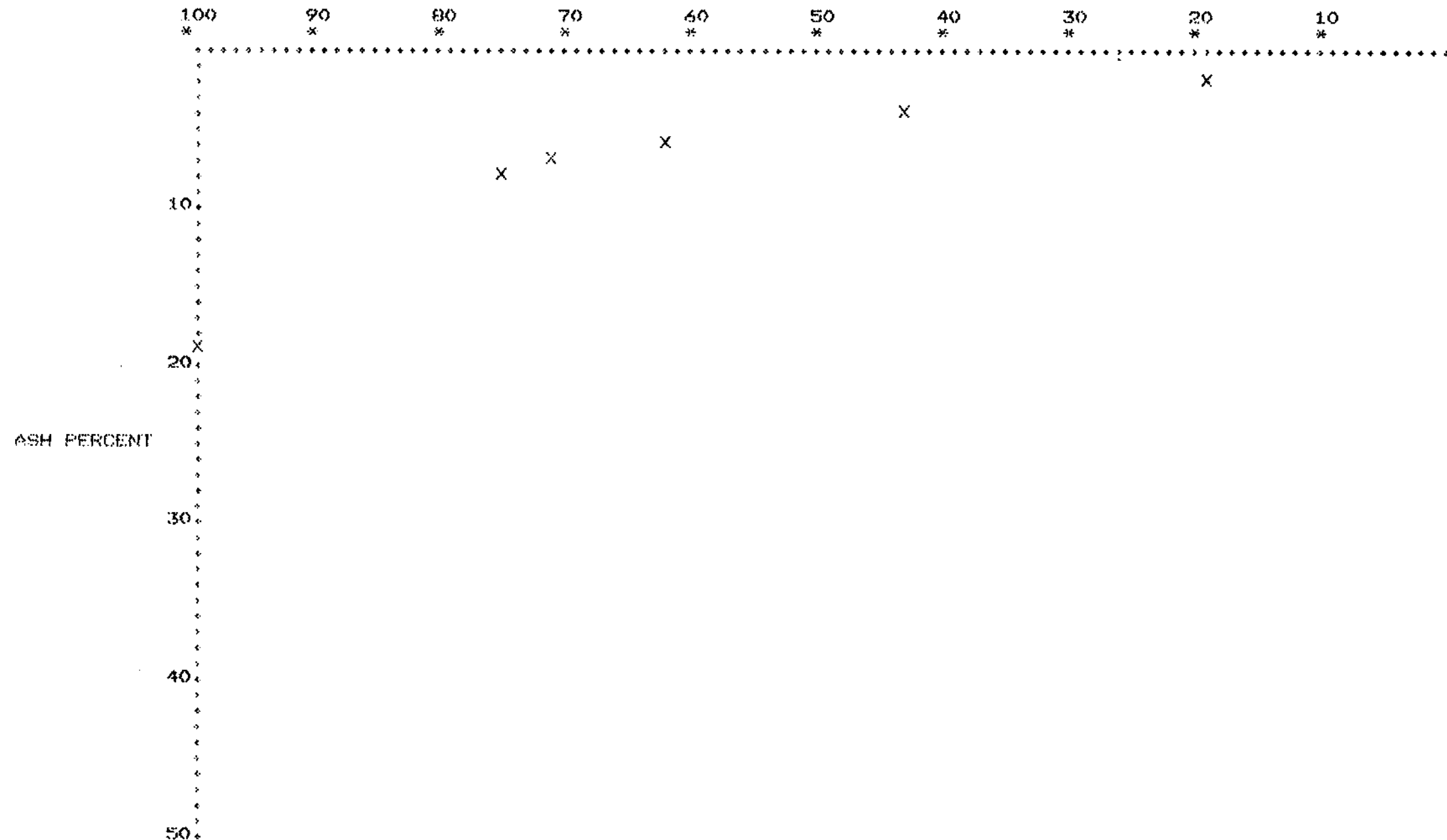
SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+20MESH	3818.	85.3	19.6
-20MESH	660.	14.7	13.0
FEED	4478.	100.0	18.6

TABLE 3

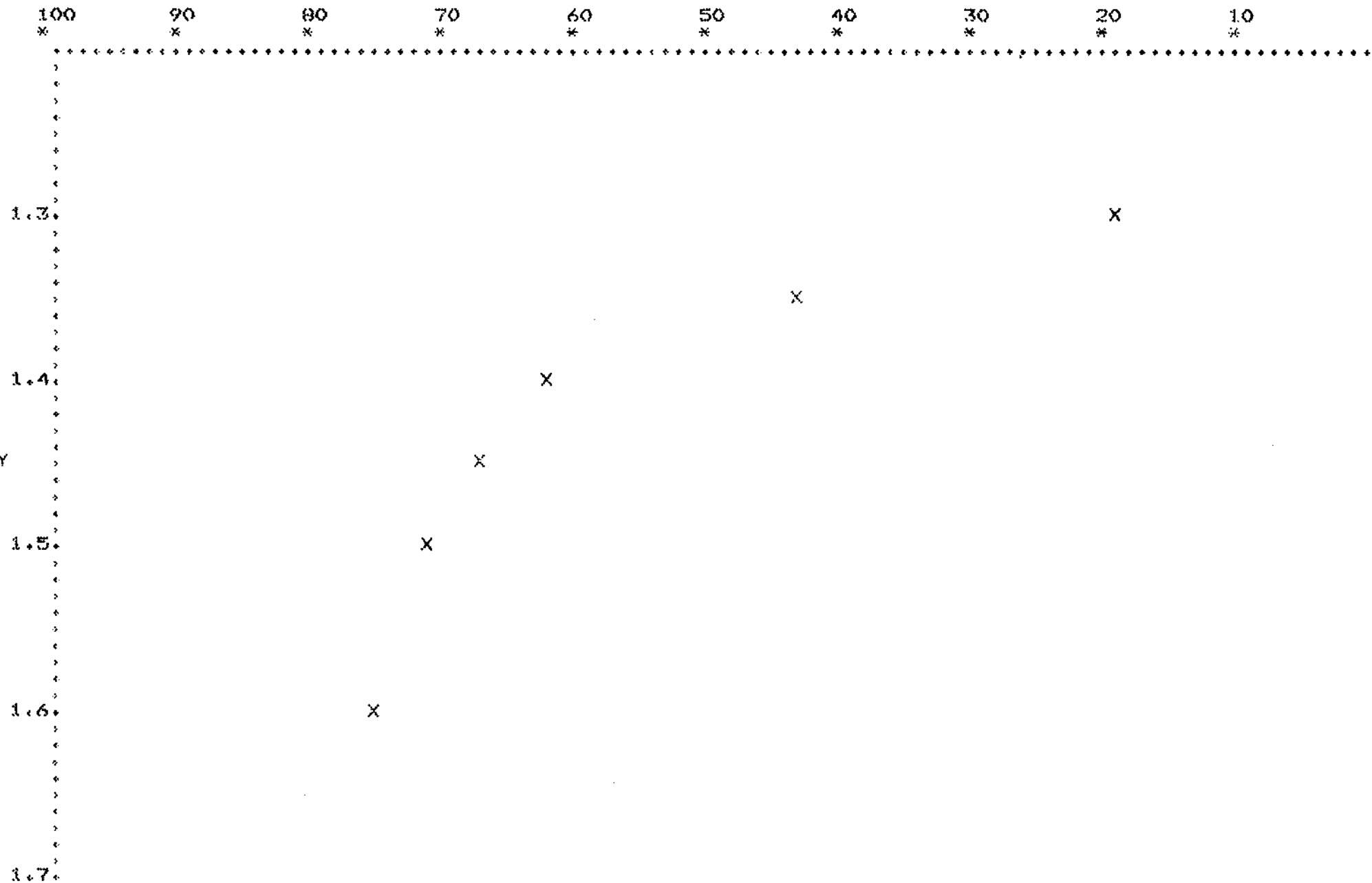
AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	9.40	84.10		12.39	16.29
PLUS 28	8.34	74.70	1.59	63.69	83.71
COMBINED	8.50	76.08		76.08	100.00
FLOTATION	9.40	84.10		12.39	15.92
PLUS 28	8.93	76.78	+1.60	65.46	84.08
COMBINED	9.00	77.86		77.86	100.00
FLOTATION	9.40	84.10		12.39	15.57
PLUS 28	9.52	78.81	+1.60	67.20	84.43
COMBINED	9.50	79.59		79.59	100.00
FLOTATION	9.40	84.10		12.39	15.25
PLUS 28	10.10	80.76	+1.60	68.86	84.75
COMBINED	10.00	81.25		81.25	100.00

CUMULATIVE FLOATS WEIGHT PERCENT



X	Y
19	2
43	4
62	6
67	6
71	7
75	8
99	19

CUMULATIVE FLOATS WEIGHT PERCENT



SPECIFIC GRAVITY

POINTS PLOTTED

X	Y
19	10
43	15
42	20
67	25
71	30
75	40

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P.L. CRAIN INC - 4

COMPO NUMBER-- 8

DRILL HOLE NUMBER-- 1909

SEAM NUMBER-- 51201-08

2/1

FLOTATION RESULTS

PRODUCT	KEROSENE WEIGHT (GMS)	.90 WEIGHT %	FROTHER .20		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	294.0	89.4	8.0	8.5	70.6	91.5
TAILS	35.0	10.6	28.0	4.0	29.4	8.5
CALC. HEAD	329.	100.0	10.1		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 ASH WT. %	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	493.	19.32	19.32	3.40	0.66	0.66	3.40	15.41	80.68	19.11	3.40	9.66	8.5
1.30-1.35	627.	24.57	43.89	6.40	1.57	2.23	5.08	13.84	56.11	24.67	6.40	31.60	8.0
1.35-1.40	514.	20.14	64.03	11.60	2.34	4.57	7.13	11.51	35.97	31.99	11.60	53.96	6.0
1.40-1.45	284.	11.13	75.16	16.10	1.79	6.36	8.46	9.71	24.84	39.10	16.10	69.59	3.0
1.45-1.50	224.	8.78	83.93	21.40	1.88	8.24	9.81	7.84	16.07	48.77	21.40	79.55	1.0
1.50-1.60	146.	5.72	89.64	26.30	1.50	9.74	10.86	6.33	10.34	61.20	26.30	86.79	1.0
1.60 SINK	264.	10.34	100.00	61.20	6.33	16.07	16.07	0.0	0.00	0.0	61.20	94.83	1.0

FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRF/AF	RECOVERY AND ASH CALCULATIONS				FRAI	FRI	AP
		A	R	FR	FAR			
0.1177	0.0094	4.0	28.9	0.2512	0.0100	0.0195	.369	5.3
0.1177	0.0094	6.0	53.8	0.4673	0.0280	0.0375	.585	6.4
0.1177	0.0094	8.0	71.5	0.6212	0.0497	0.0591	.739	8.0
0.1177	0.0094	10.0	85.0	0.7385	0.0738	0.0833	.856	9.7
0.1177	0.0094	12.0	94.5	0.8201	0.0984	0.1078	.938	11.5
0.1177	0.0094	14.0	99.5	0.8636	0.1209	0.1303	.981	13.3
0.1177	0.0094	16.0	***	0.8688	0.1390	0.1484	.986	15.0



COMPO NUMBER- 8

DRILL HOLE NUMBER- 1909

SEAM NUMBER-

51201-08

## DATA

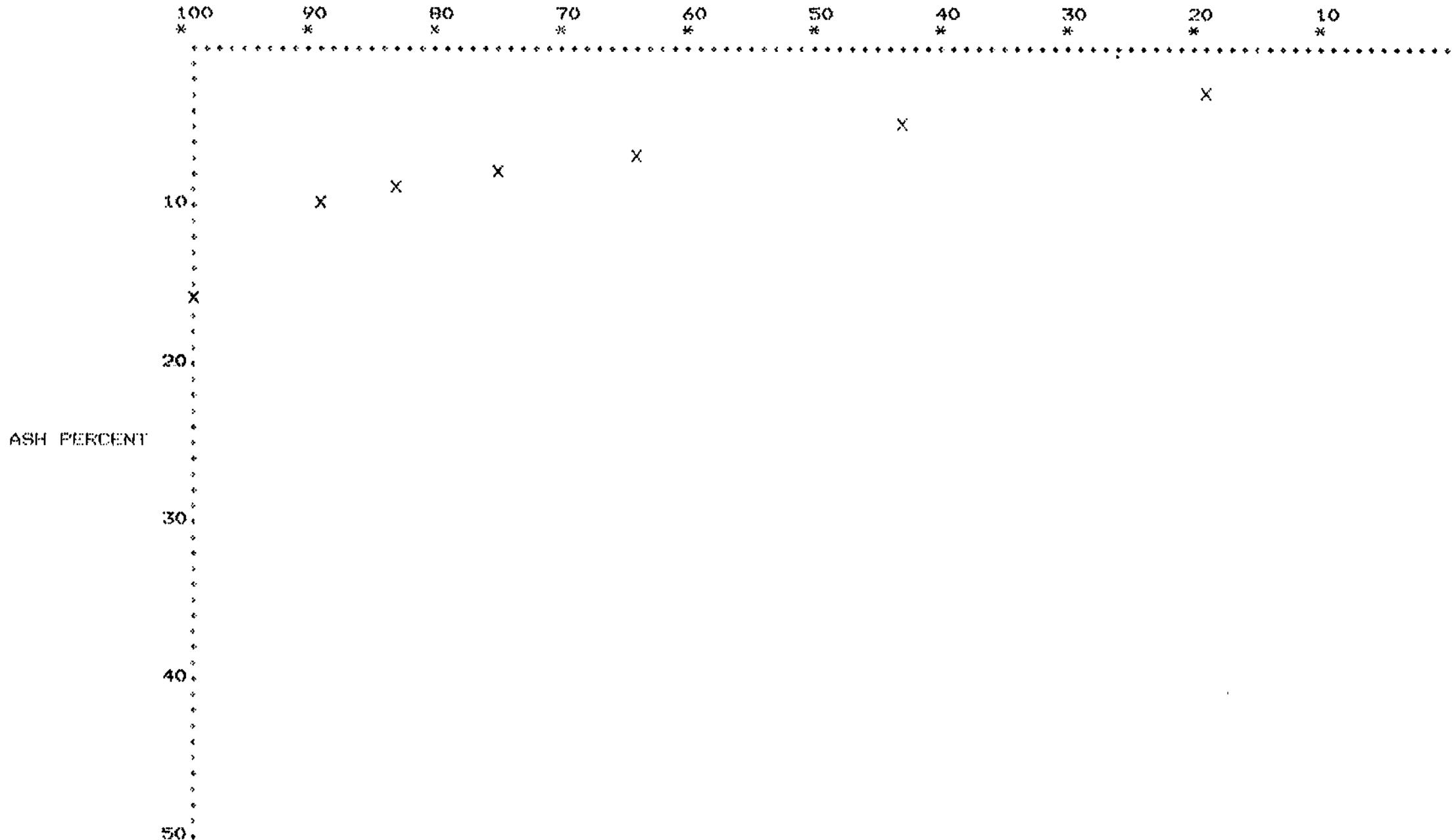
## SIZE DISTRIBUTION

SIZE	WEIGHT (GMS)	WEIGHT (%)	ASH (%)
+28MESH	2572.	86.8	16.1
-28MESH	390.	13.2	10.1
FEED	2962.	100.0	15.3

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	8.00	89.36		11.77	15.13
PLUS 28	8.58	76.02	1.45	66.01	84.87
COMBINED	8.50	77.78		77.78	100.00
FLOTATION	8.00	89.36		11.77	14.49
PLUS 28	9.15	79.93	1.47	69.41	85.51
COMBINED	9.00	81.17		81.17	100.00
FLOTATION	8.00	89.36		11.77	13.97
PLUS 28	9.73	83.47	1.50	72.48	86.03
COMBINED	9.50	84.24		84.24	100.00
FLOTATION	8.00	89.36		11.77	13.51
PLUS 28	10.30	86.75	1.54	75.33	86.49
COMBINED	10.00	87.10		87.10	100.00

CUMULATIVE FLOATS WEIGHT PERCENT



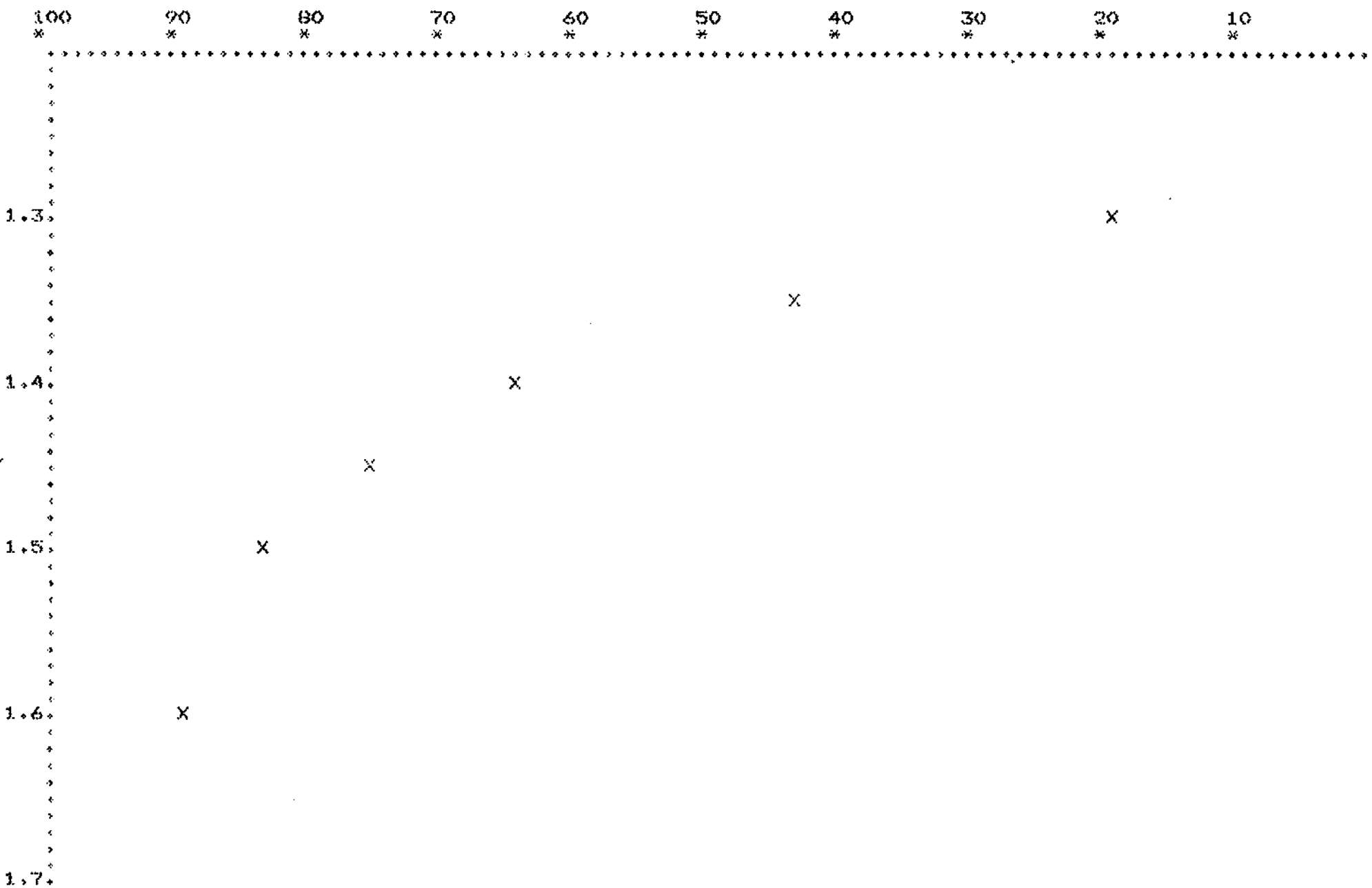
POINTS PLOTTED

X	Y
19	3
43	5
64	7
75	8
83	9
89	10
99	16

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CUMULATIVE FLOATS WEIGHT PERCENT



SPECIFIC GRAVITY

100  
\*  
90  
\*  
80  
\*  
70  
\*  
60  
\*  
50  
\*  
40  
\*  
30  
\*  
20  
\*  
10  
\*  
1.3  
1.4  
1.5  
1.6  
1.7

POINTS PLOTTED

X	Y
19	10
43	15
64	20
75	25
83	30
89	40

COMPO NUMBER-- 9

DRILL HOLE NUMBER-- 1910

SEAM NUMBER-- 4 51326-37

FLOTATION RESULTS

PRODUCT	KEROSENE WEIGHT (GMS)	.90 WEIGHT %	FROTHER .20 ASSAY		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	244.0	74.4	12.2	4.5	46.0	81.4
TAILS	84.0	25.6	41.6	1.0	54.0	18.6
CALC. HEAD	328.	100.0	19.7		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	664.	17.48	17.48	3.30	0.58	0.58	3.30	28.67		82.52	34.75	3.30	8.74	7.5
1.30-1.35	1026.	27.01	44.50	6.90	1.86	2.44	5.49	26.81		55.50	48.30	6.90	30.99	3.5
1.35-1.40	620.	16.32	60.82	10.60	1.73	4.17	6.86	25.08		39.18	64.02	10.60	52.66	1.5
1.40-1.45	142.	3.74	64.56	16.60	0.62	4.79	7.42	24.46		35.44	69.02	16.60	62.69	1.0
1.45-1.50	95.	2.50	67.06	22.70	0.57	5.36	7.99	23.89		32.94	72.53	22.70	65.81	1.0
1.50-1.60	71.	1.87	68.93	29.90	0.56	5.92	8.59	23.33		31.07	75.10	29.90	68.00	1.0
1.60 STNK	1180.	31.07	100.00	75.10	23.33	29.25	29.25	0.0		0.00	0.0	75.10	84.47	0.5

FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRF/AF	RECOVERY AND ASH CALCULATIONS				FRAI	FRI	AP
		A	R	FR	FAR			
0.0873	0.0106	4.0	26.3	0.2319	0.0093	0.0199	.319	6.2
0.0873	0.0106	6.0	51.3	0.4524	0.0271	0.0378	.540	7.0
0.0873	0.0106	8.0	67.2	0.5932	0.0475	0.0581	.681	8.5
0.0873	0.0106	10.0	73.2	0.6457	0.0646	0.0752	.733	10.3
0.0873	0.0106	12.0	78.6	0.6939	0.0833	0.0939	.781	12.0
0.0873	0.0106	14.0	83.4	0.7366	0.1031	0.1138	.824	13.8
0.0873	0.0106	16.0	87.7	0.7738	0.1238	0.1345	.861	15.6
0.0873	0.0106	18.0	91.3	0.8056	0.1450	0.1557	.893	17.4
0.0873	0.0106	20.0	94.2	0.8319	0.1664	0.1770	.919	19.3

COMPO NUMBER-- 9

DRILL HOLE NUMBER-- 1910

SEAM NUMBER-- 51326-37

DATA

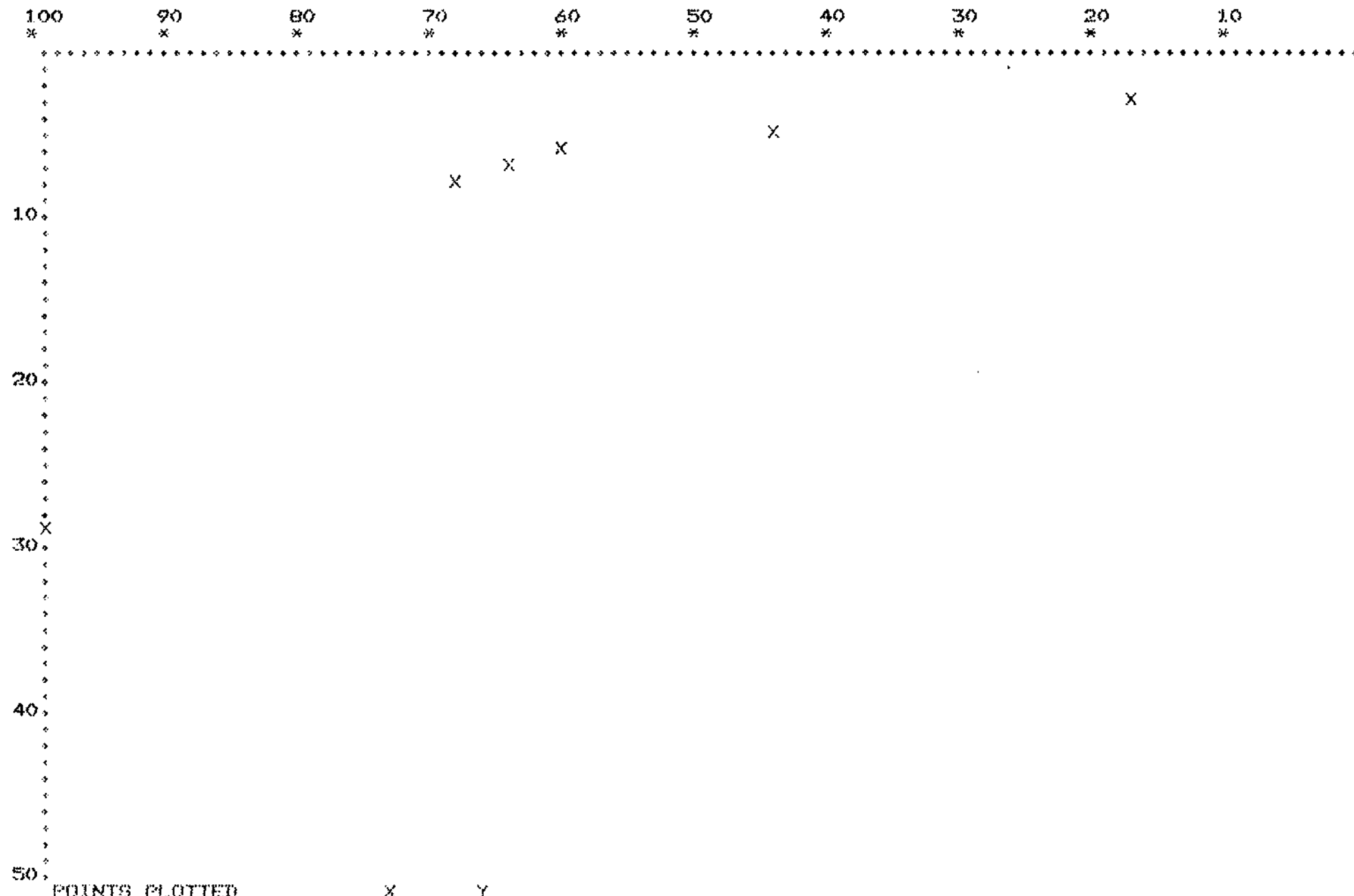
SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MESH	3852.	88.3	29.3
-28MESH	512.	11.7	19.7
FEED	4364.	100.0	28.1

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	12.20	74.39		8.73	12.82
PLUS 28	8.01	67.24	1.51	59.35	87.18
COMBINED	8.50	68.08		68.08	100.00
FLOTATION	12.20	74.39		8.73	12.53
PLUS 28	8.57	69.02	1.60	60.92	87.47
COMBINED	9.00	69.65		69.65	100.00
FLOTATION	12.20	74.39		8.73	12.28
PLUS 28	9.14	70.63	+1.60	62.34	87.72
COMBINED	9.50	71.07		71.07	100.00
FLOTATION	12.20	74.39		8.73	12.03
PLUS 28	9.71	72.31	+1.60	63.82	87.97
COMBINED	10.00	72.55		72.55	100.00

CUMULATIVE FLOATS WEIGHT PERCENT



POINTS PLOTTED

X	Y
17	33
44	35
60	36
64	37
67	37
68	38
99	39

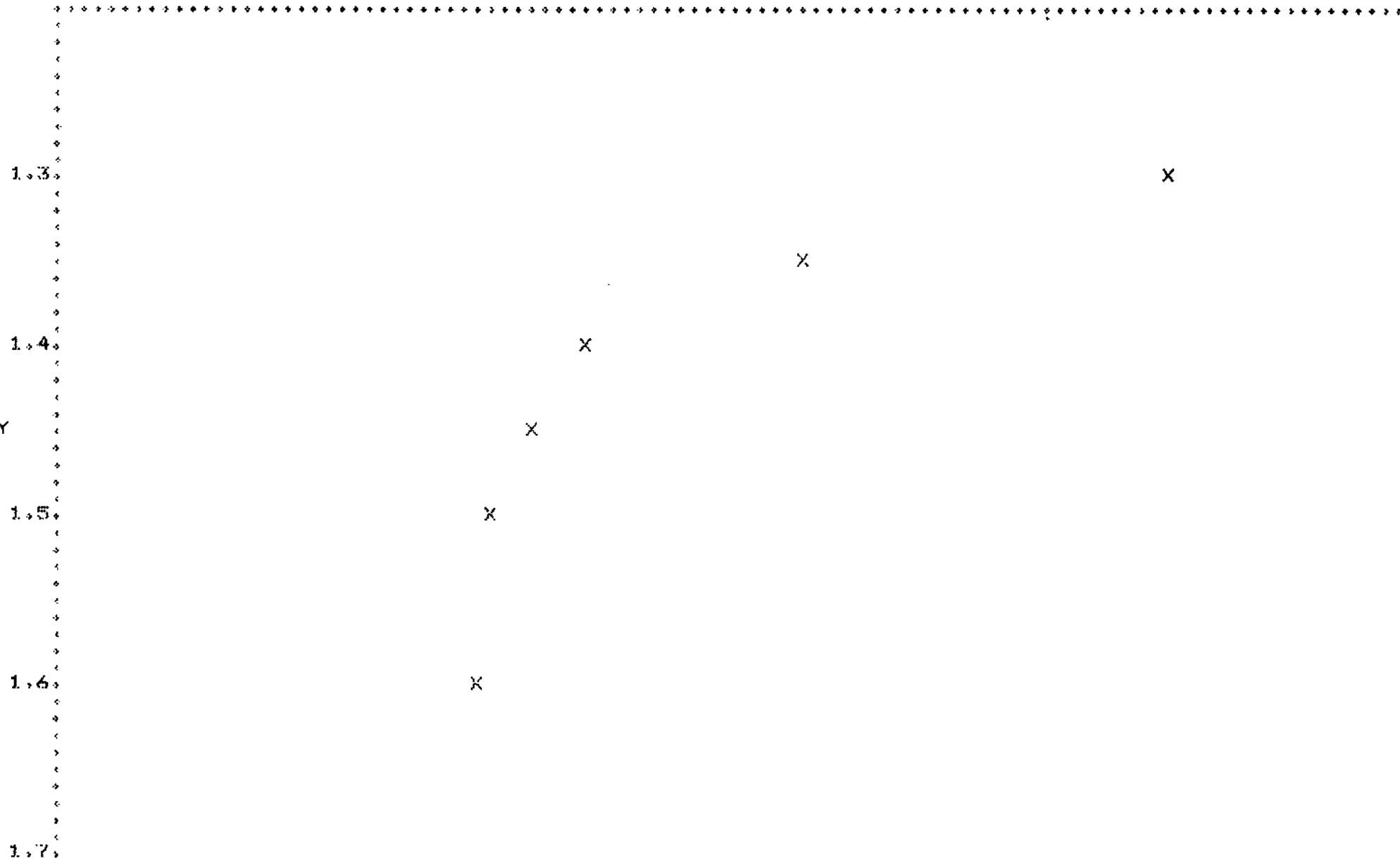
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CUMULATIVE FLOATS WEIGHT PERCENT

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



SPECIFIC GRAVITY

POINTS PLOTTED

X	Y
17	10
44	15
60	20
64	25
67	30
68	40

COMPO NUMBER-- 10

DRILL HOLE NUMBER-- 1910

SEAM NUMBER-- 9 5133R-46

FLOTATION RESULTS

PRODUCT	KEROSENE WEIGHT (GMS)	.90 WEIGHT %	FROTHER .20		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	299.0	91.7	6.2	7.0	64.7	94.3
TAILS	27.0	8.3	37.5	1.0	35.3	5.7
CALC. HEAD	326.	100.0	8.8		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 ASH WT. %	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FST
1.30	1756.	46.20	46.20	2.70	1.25	1.25	2.70	13.86	53.80	25.77	2.70	23.10	6.5
1.30-1.35	841.	22.13	68.32	5.80	1.28	2.53	3.70	12.58	31.68	39.71	5.80	57.26	2.5
1.35-1.40	423.	11.13	79.45	10.10	1.12	3.65	4.60	11.45	20.55	55.75	10.10	73.89	1.0
1.40-1.45	128.	3.27	82.82	15.30	0.52	4.17	5.03	10.94	17.18	63.68	15.30	81.14	1.0
1.45-1.50	76.	2.00	84.82	21.00	0.42	4.59	5.41	10.52	15.18	69.30	21.00	83.82	1.0
1.50-1.60	61.	1.60	86.42	27.00	0.43	5.02	5.81	10.09	13.58	74.30	27.00	85.62	1.0
1.60 STNK	516.	13.58	100.00	74.30	10.09	15.11	15.11	0.00	0.00	0.0	74.30	93.21	0.5

FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRF <sub>AF</sub>	RECOVERY		ASH CALCULATIONS		FRAI	FRI	AF
		A	R	FR	FAR			
0.1341	0.0083	4.0	72.8	0.6212	0.0248	0.0332	.755	4.4
0.1341	0.0083	6.0	87.2	0.7441	0.0446	0.0530	.878	6.0
0.1341	0.0083	8.0	93.7	0.8001	0.0640	0.0723	.934	7.7
0.1341	0.0083	10.0	98.2	0.8381	0.0838	0.0921	.972	9.5
0.1341	0.0083	12.0	****	0.8582	0.1030	0.1113	.992	11.2
0.1341	0.0083	14.0	****	0.8604	0.1205	0.1288	.994	12.9

COMPO NUMBER- 10

DRILL HOLE NUMBER- 1910

SEAM NUMBER- 51338-46

## DATA

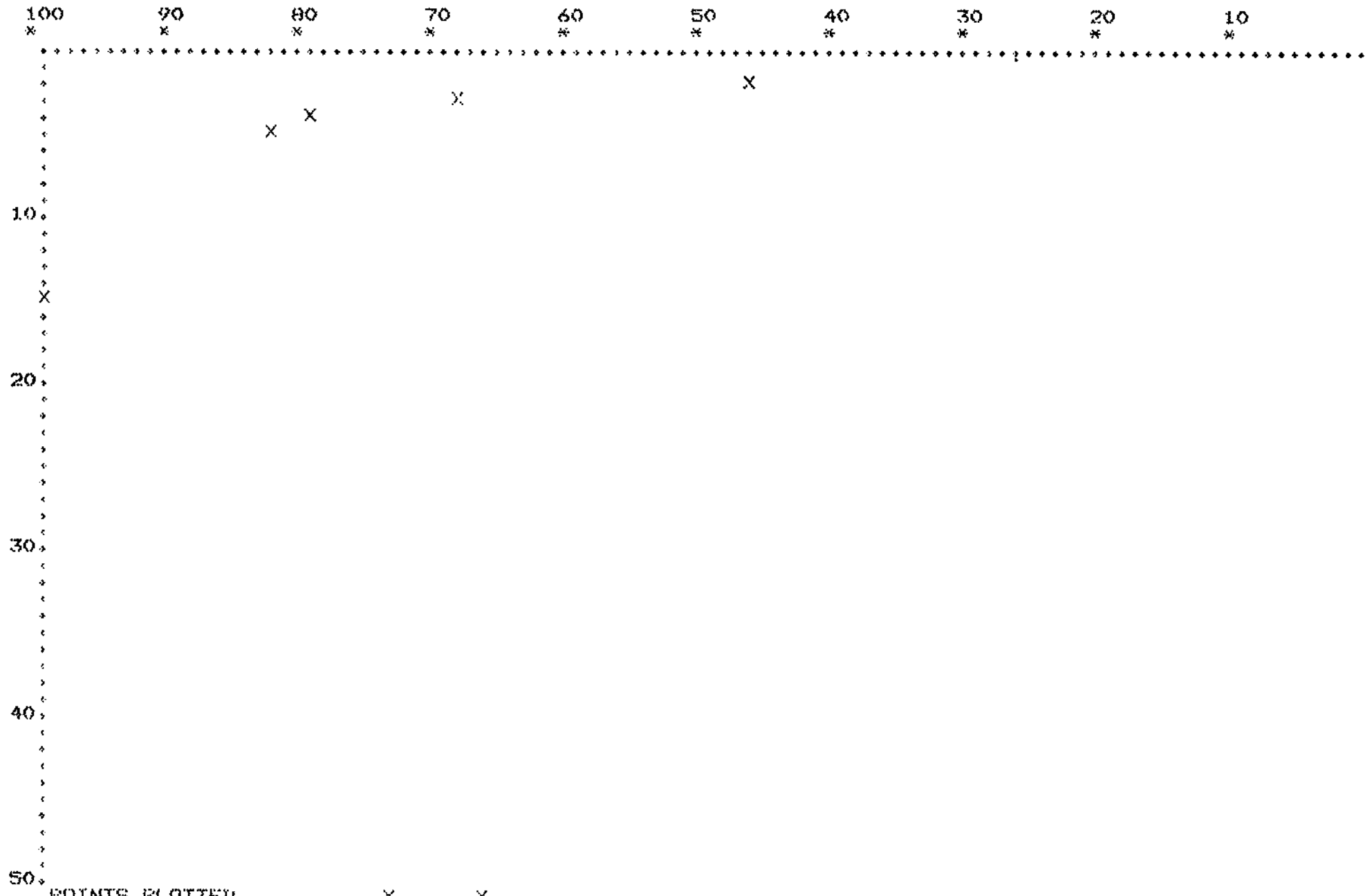
## SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(X)
+28MESH	3832.	85.4	15.1
-28MESH	656.	14.6	8.8
FEED	4488.	100.0	14.2

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	6.20	91.72		13.41	14.06
PLUS 28	8.89	95.95	+1.60	81.93	85.94
COMBINED	8.50	95.33		95.33	100.00
FLOTATION	6.20	91.72		13.41	13.91
PLUS 28	9.48	97.20	+1.60	82.99	86.09
COMBINED	9.00	96.40		96.40	100.00
FLOTATION	6.20	91.72		13.41	13.78
PLUS 28	10.06	98.26	+1.60	83.90	86.22
COMBINED	9.50	97.31		97.31	100.00
FLOTATION	6.20	91.72		13.41	13.67
PLUS 28	10.65	99.15	+1.60	84.66	86.33
COMBINED	10.00	98.06		98.06	100.00

CUMULATIVE FLOATS WEIGHT PERCENT



X  
46  
68  
79  
82  
84  
86  
99

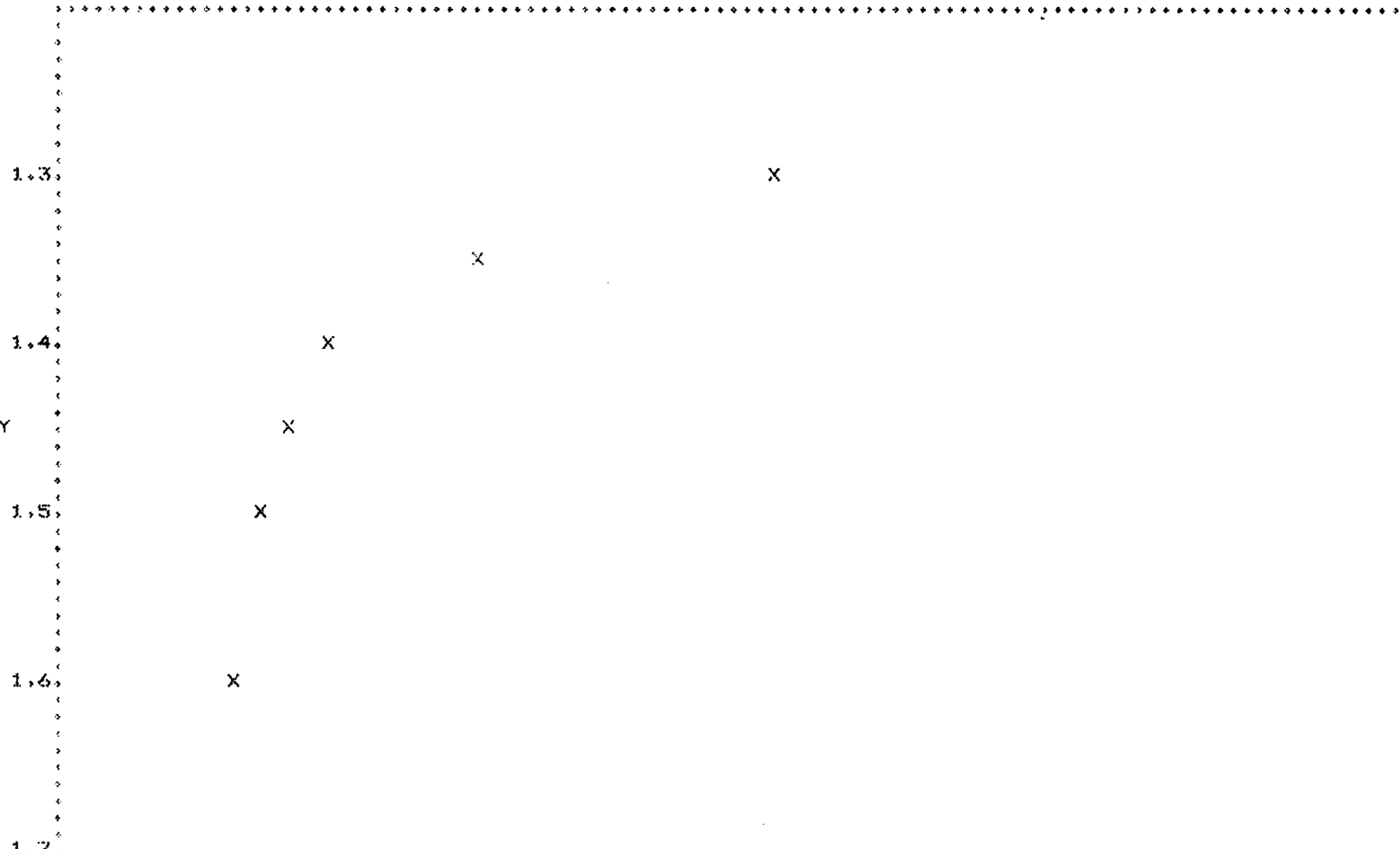
Y  
100  
90  
80  
70  
60  
50  
40  
30  
20  
10

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RL CRAIN INC - 4

CUMULATIVE FLOATS WEIGHT PERCENT

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



SPECIFIC GRAVITY

POINTS PLOTTED

X	Y
46	10
68	15
79	20
82	25
84	30
86	40

COMPO NUMBER- 11

DRILL HOLE NUMBER- 1910

SEAM NUMBER- 64030-34

70

\*\* NO FLOTATION RUNS \*\*

HEAD SAMPLE

WEIGHT %	ASSAY	
	ASH	FSI
100.0	14.8	7.0

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TABLE I

WASHABILITY CURVE CALCULATIONS FOR (<+28MESH) FRACTION

SD	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	386.	15.21	15.21	2.80	0.43	0.43	2.80	39.76	84.79	46.89	2.80	7.60	7.5	
1.30-1.35	385.	15.17	30.38	6.70	1.02	1.44	4.75	38.74	69.62	55.64	6.70	22.79	3.0	
1.35-1.40	154.	6.07	36.45	12.80	0.78	2.22	6.09	37.96	63.55	59.73	12.80	33.41	3.0	
1.40-1.45	111.	4.37	40.82	17.30	0.76	2.98	7.29	37.21	59.18	62.87	17.30	38.63	2.0	
1.45-1.50	144.	5.67	46.49	21.60	1.23	4.20	9.04	35.98	53.51	67.25	21.60	43.66	1.5	
1.50-1.60	92.	3.62	50.12	26.60	0.96	5.17	10.31	35.02	49.88	70.20	26.60	48.31	1.0	
1.60 SINK	1266.	49.88	100.00	70.20	35.02	40.18	40.18	0.00	0.00	0.0	70.20	75.06	0.5	

FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRF/AF	RECOVERY		ASH CALCULATIONS		FRAI	FRI	AP
		A	R	FR	FAR			
0.0	0.0	4.0	25.4	0.2296	0.0092	0.0092	.230	4.0
0.0	0.0	6.0	36.1	0.3259	0.0196	0.0196	.326	6.0
0.0	0.0	8.0	43.2	0.3901	0.0312	0.0312	.390	8.0
0.0	0.0	10.0	49.3	0.4447	0.0445	0.0445	.445	10.0
0.0	0.0	12.0	54.8	0.4941	0.0593	0.0593	.494	12.0
0.0	0.0	14.0	60.0	0.5410	0.0757	0.0757	.541	14.0
0.0	0.0	16.0	64.9	0.5852	0.0936	0.0936	.585	16.0
0.0	0.0	18.0	69.5	0.6267	0.1128	0.1128	.627	18.0
0.0	0.0	20.0	73.7	0.6654	0.1331	0.1331	.665	20.0

COMPO NUMBER-- 11

DRILL HOLE NUMBER-- 1910

SEAM NUMBER-- 64030-34

DATA

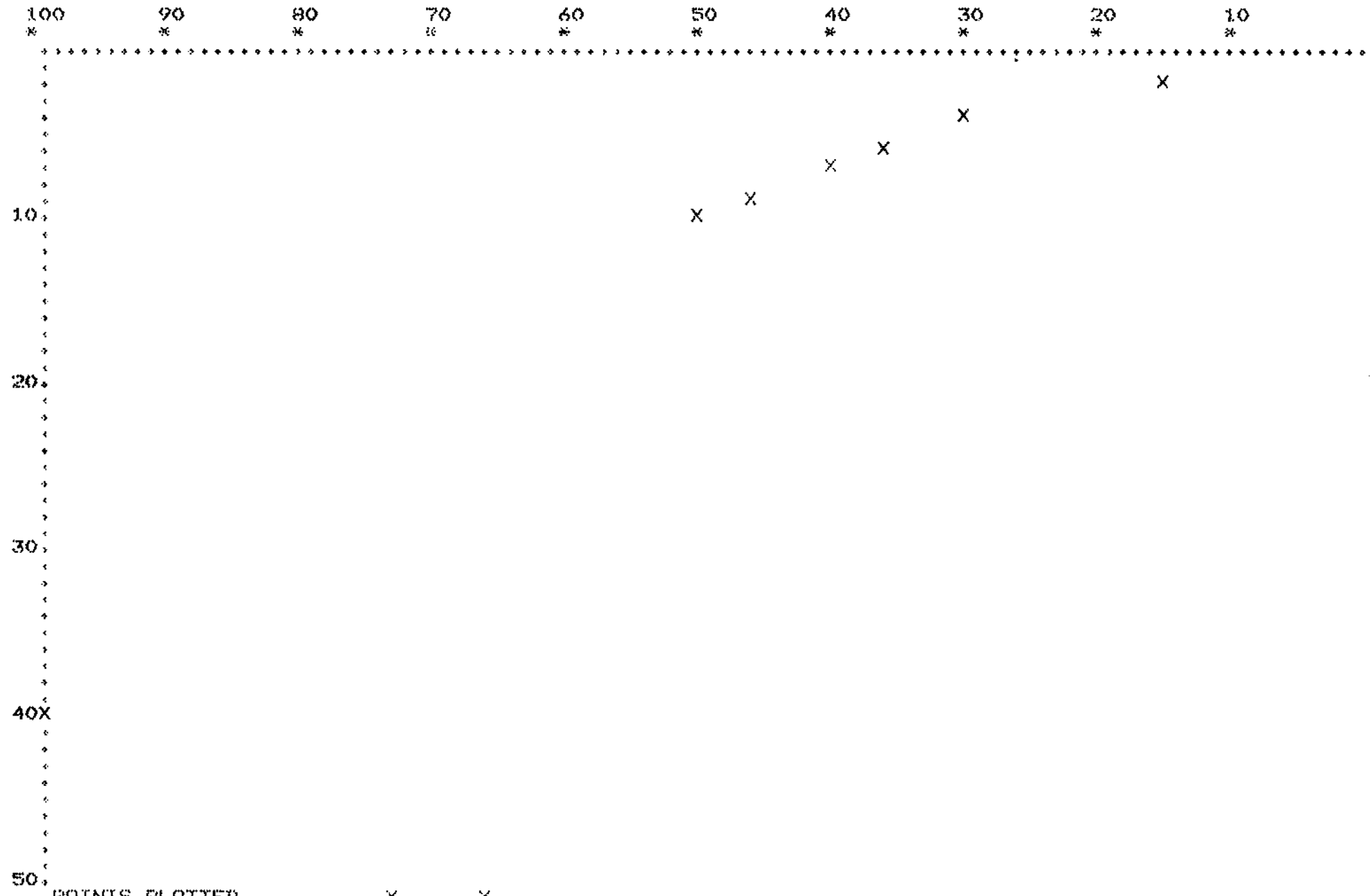
SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MESH	2568.	90.2	40.2
-28MESH	278.	9.8	14.8
FEED	2846.	100.0	37.7

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	9.42	47.63	1.53	42.98	100.00
COMBINED	8.50	42.98		42.98	100.00
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	9.97	49.21	1.57	44.40	100.00
COMBINED	9.00	44.40		44.40	100.00
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	10.53	50.74	+1.60	45.78	100.00
COMBINED	9.50	45.78		45.78	100.00
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	11.08	52.27	+1.60	47.17	100.00
COMBINED	10.00	47.17		47.17	100.00

CUMULATIVE FLOATS WEIGHT PERCENT



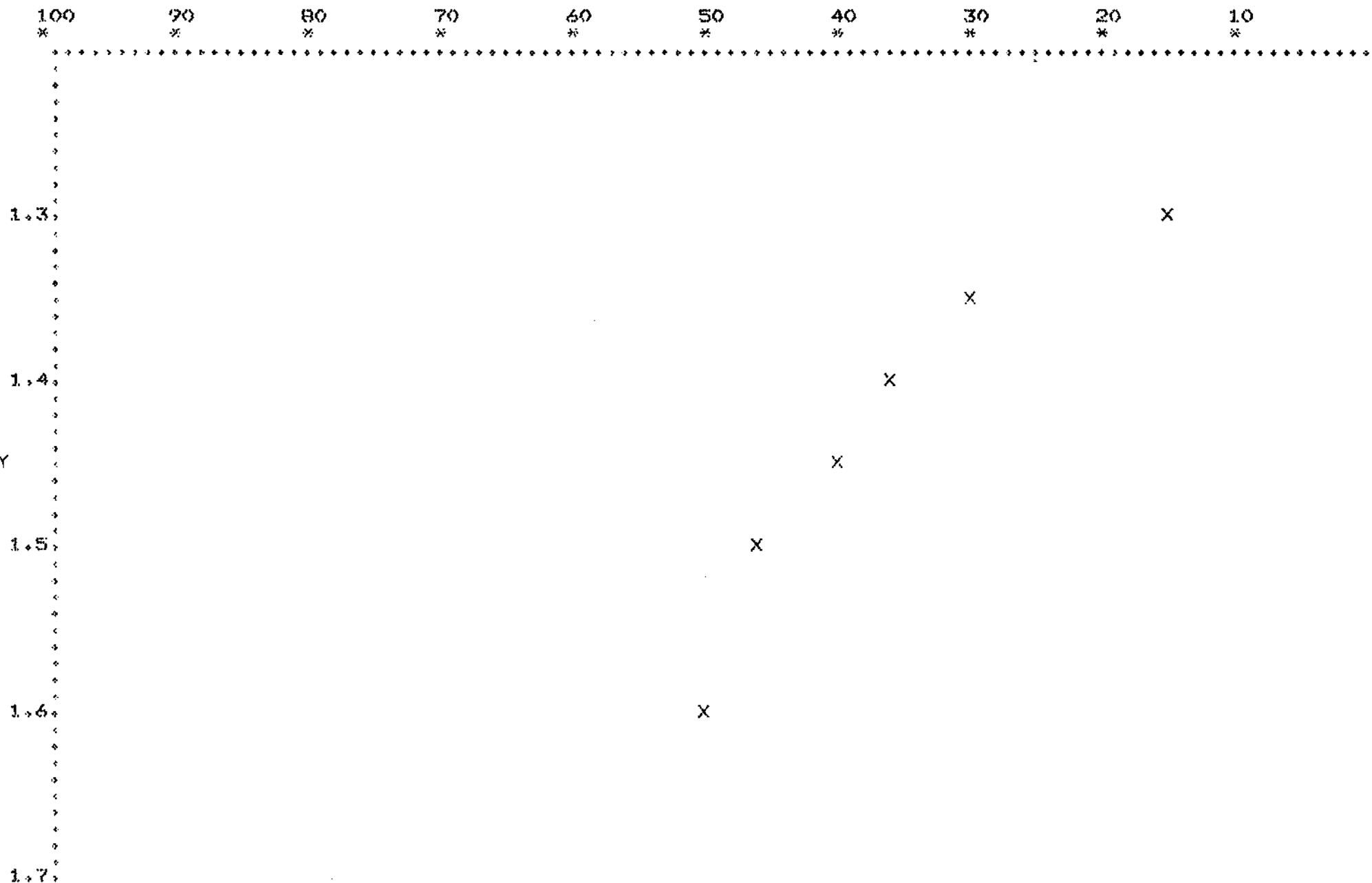
POINTS PLOTTED

X	Y
15	2
30	4
36	6
40	7
46	9
50	10
99	40

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CUMULATIVE FLOATS WEIGHT PERCENT



SPECIFIC GRAVITY

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

1.3  
1.4  
1.5  
1.6  
1.7

POINTS PLOTTED

X	Y
15	10
30	15
36	20
40	25
46	30
50	40

COMFO NUMBER-- 12

DRILL HOLE NUMBER-- 1910

SEAM NUMBER-- 7 64035-41

FLOTATION RESULTS

PRODUCT	KEROSENE WEIGHT (GMS)	.90 WEIGHT %	FROTHER .20 ASSAY		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	289.0	87.8	8.6	7.5	57.1	92.5
TAILS	40.0	12.2	46.7	2.0	42.9	7.5
CALC. HEAD	329.	100.0	13.2		100.0	100.0

TABLE 1

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

SO	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	563.	14.01	14.01	3.20	0.45	0.45	3.20	29.26		85.99	34.02	3.20	7.01	8.0
1.30-1.35	367.	9.13	23.15	6.80	0.62	1.07	4.62	28.64		76.85	37.26	6.80	18.58	7.5
1.35-1.40	536.	13.34	36.49	12.40	1.65	2.72	7.46	26.98		63.51	42.48	12.40	29.82	5.0
1.40-1.45	414.	10.30	46.79	16.80	1.73	4.45	9.52	25.25		53.21	47.45	16.80	41.64	1.5
1.45-1.50	433.	10.78	57.57	20.90	2.25	6.71	11.65	23.00		42.43	54.20	20.90	52.18	1.5
1.50-1.60	413.	10.28	67.84	27.60	2.84	9.54	14.07	20.16		32.16	62.70	27.60	62.71	1.0
1.60 STNK	1292.	32.16	100.00	62.70	20.16	29.71	29.71	0.00		0.00	0.0	62.70	83.92	0.5

FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAP	RECOVERY		AND ASH CALCULATIONS		FRAI	FRI	AP
		A	R	FR	FAR			
0.0757	0.0065	4.0	19.4	0.1769	0.0071	0.0136	.253	5.4
0.0757	0.0065	6.0	30.0	0.2738	0.0164	0.0229	.350	6.6
0.0757	0.0065	8.0	39.1	0.3577	0.0286	0.0351	.433	8.1
0.0757	0.0065	10.0	49.3	0.4503	0.0450	0.0515	.526	9.8
0.0757	0.0065	12.0	59.2	0.5406	0.0649	0.0714	.616	11.6
0.0757	0.0065	14.0	67.6	0.6175	0.0865	0.0930	.693	13.4
0.0757	0.0065	16.0	75.0	0.6857	0.1097	0.1162	.761	15.3
0.0757	0.0065	18.0	81.5	0.7451	0.1341	0.1406	.821	17.1
0.0757	0.0065	20.0	87.1	0.7955	0.1591	0.1656	.871	19.0



COMPO NUMBER-- 12

DRILL HOLE NUMBER-- 1910

SEAM NUMBER-- 64035-41

DATA

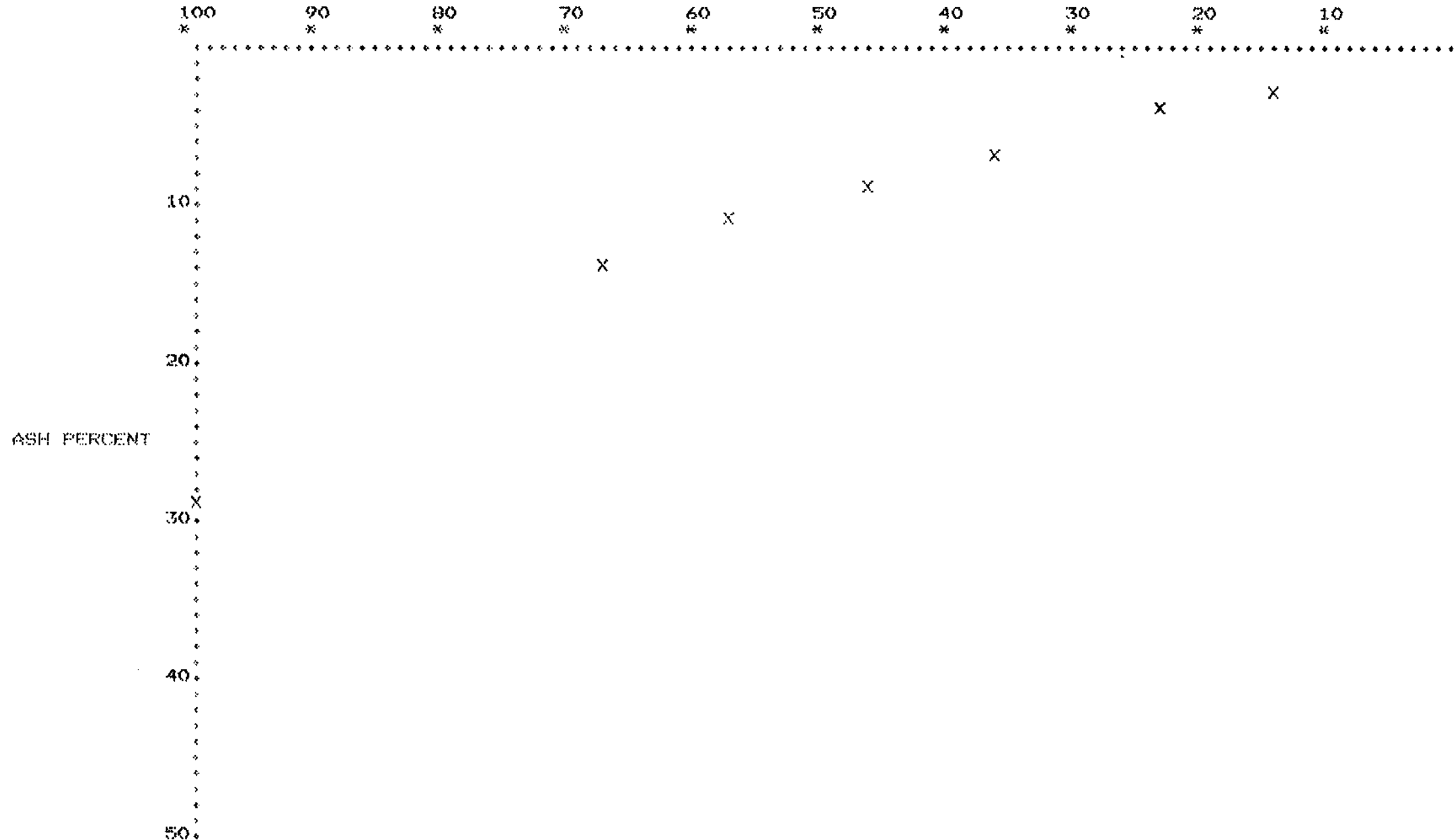
SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MESH	4049.	91.4	29.7
-28MESH	382.	8.6	13.2
FEED	4431.	100.0	28.3

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	8.60	87.84		7.57	16.62
PLUS 28	8.49	41.59	1.42	38.00	83.38
COMBINED	8.50	45.58		45.58	100.00
FLOTATION	8.60	87.84		7.57	15.75
PLUS 28	9.04	44.34	1.44	40.52	84.25
COMBINED	9.00	48.09		48.09	100.00
FLOTATION	8.60	87.84		7.57	14.96
PLUS 28	9.58	47.13	1.45	43.06	85.04
COMBINED	9.50	50.64		50.64	100.00
FLOTATION	8.60	87.84		7.57	14.23
PLUS 28	10.13	49.96	1.46	45.65	85.77
COMBINED	10.00	53.23		53.23	100.00

CUMULATIVE FLOATS WEIGHT PERCENT



POINTS PLOTTED

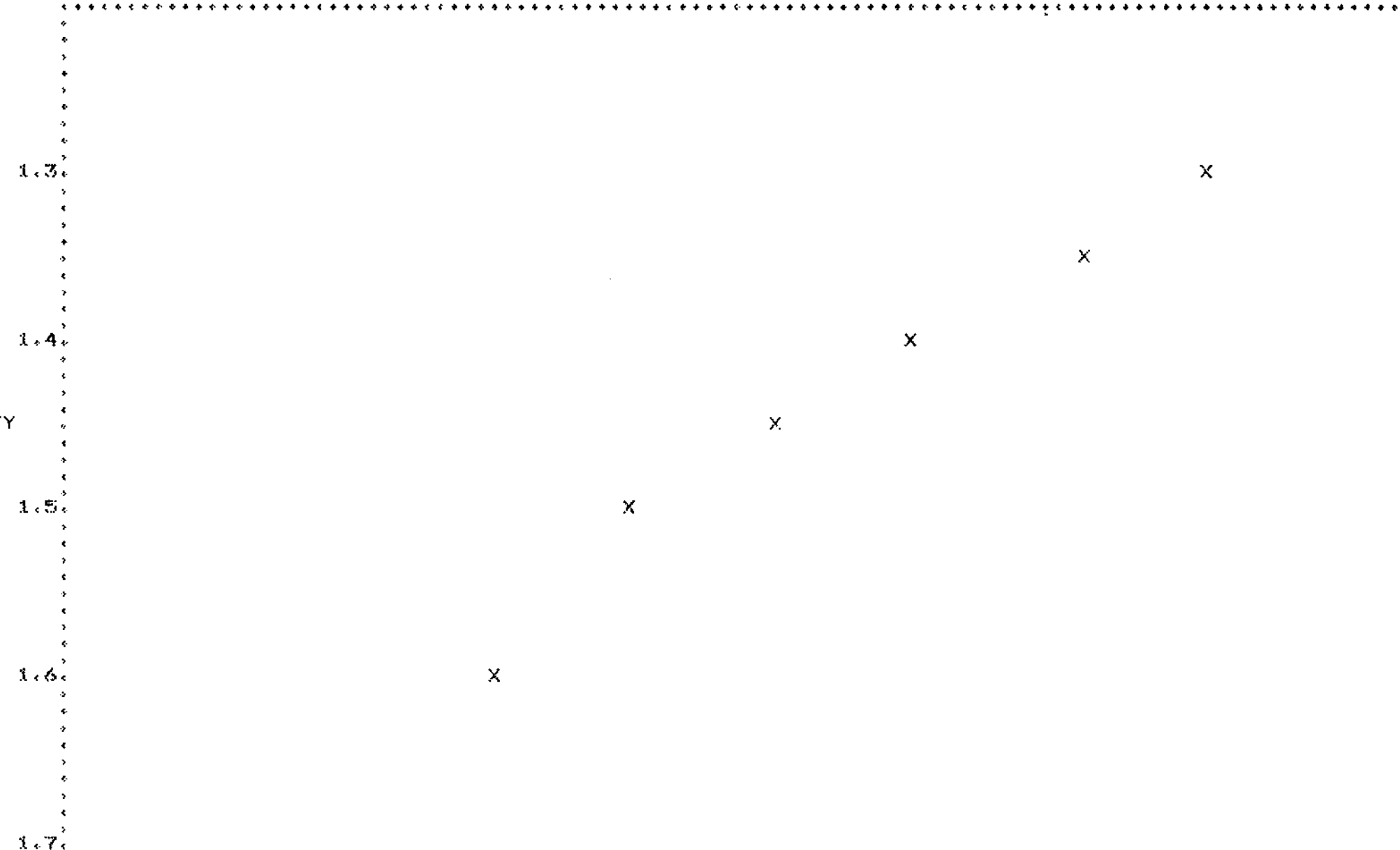
X	Y
14	3
23	4
36	7
46	9
57	11
67	14
99	29

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CUMULATIVE FLOATS WEIGHT PERCENT

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



SPECIFIC GRAVITY

POINTS PLOTTED

X	Y
14	10
23	15
36	20
46	25
57	30
67	40

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RL CRAIN INC - 4

COMPO NUMBER- 13

DRILL HOLE NUMBER- 1910

SEAM NUMBER- 51 lower 64002-10

FLOTATION RESULTS

PRODUCT	KEROSENE WEIGHT (GMS)	.90 WEIGHT %	FROTHER .20 ASSAY		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	288.0	38.1	9.0	6.5	55.6	93.5
TAILS	39.0	11.9	53.0	1.0	44.4	6.5
CALC. HEAD	327.	100.0	14.2		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 ASH WT. %	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	533.	12.86	12.86	2.60	0.33	0.33	2.60	24.38	87.14	27.97	2.60	6.43	7.0
1.30-1.35	1003.	24.20	37.07	7.40	1.79	2.13	5.73	22.58	62.93	35.89	7.40	24.96	1.5
1.35-1.40	746.	18.00	55.07	10.00	1.80	3.93	7.13	20.78	44.93	46.26	10.00	46.07	1.5
1.40-1.45	291.	7.02	62.09	15.00	1.05	4.98	8.02	19.73	37.91	52.05	15.00	58.58	1.0
1.45-1.50	223.	5.38	67.47	20.20	1.09	6.07	8.99	18.64	32.53	57.31	20.20	64.78	1.0
1.50-1.60	223.	5.38	72.85	25.60	1.38	7.44	10.22	17.27	27.15	63.60	25.60	70.16	1.0
1.60 SINK	1125.	27.15	100.00	63.60	17.27	24.71	24.71	0.0	0.00	0.0	63.60	86.43	0.5

FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAP	RECOVERY A	AND ASH R	CALCULATIONS		FRAI	FRI	AP
				FR	FAR			
0.0653	0.0059	4.0	20.9	0.1934	0.0077	0.0136	.259	5.3
0.0653	0.0059	6.0	40.7	0.3764	0.0226	0.0285	.442	6.4
0.0653	0.0059	8.0	62.0	0.5739	0.0459	0.0518	.639	8.1
0.0653	0.0059	10.0	72.0	0.6666	0.0667	0.0725	.732	9.9
0.0653	0.0059	12.0	79.8	0.7390	0.0887	0.0946	.804	11.8
0.0653	0.0059	14.0	86.4	0.8001	0.1120	0.1179	.865	13.6
0.0653	0.0059	16.0	91.7	0.8494	0.1359	0.1418	.915	15.5
0.0653	0.0059	18.0	95.8	0.8868	0.1596	0.1655	.952	17.4
0.0653	0.0059	20.0	98.5	0.9124	0.1825	0.1884	.978	19.3

COMPO NUMBER- 13

DRILL HOLE NUMBER- 1910

SEAM NUMBER- 64002-10

## DATA

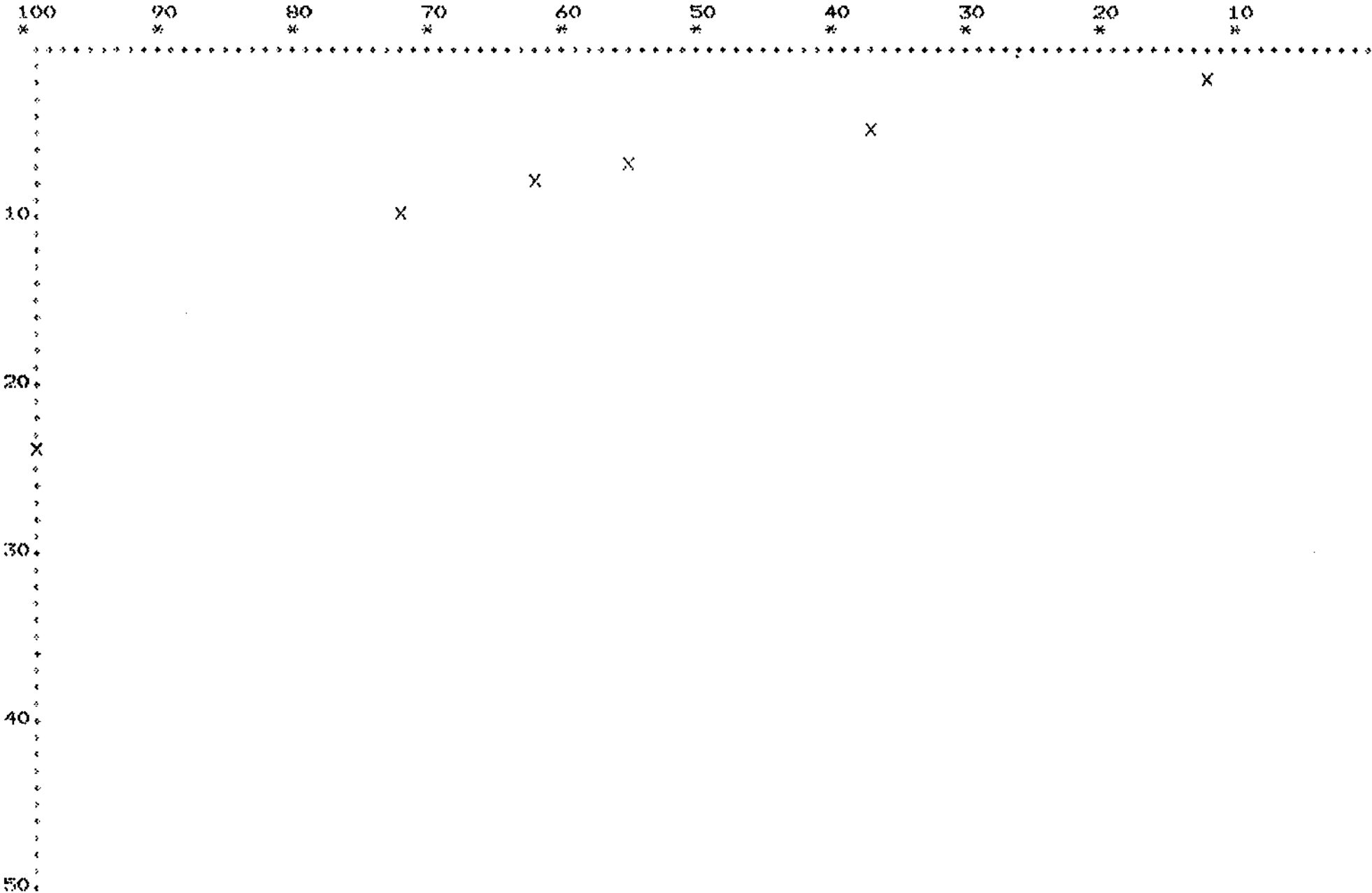
## SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MESH	4174.	92.6	24.7
--28MESH	334.	7.4	14.2
FEED	4508.	100.0	23.9

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	9.00	88.07		6.53	9.81
PLUS 28	8.46	64.77	1.47	59.97	90.19
COMBINED	8.50	66.50		66.50	100.00
FLOTATION	9.00	88.07		6.53	9.45
PLUS 28	9.00	67.53	1.50	62.53	90.55
COMBINED	9.00	69.05		69.05	100.00
FLOTATION	9.00	88.07		6.53	9.14
PLUS 28	9.54	70.02	1.54	64.84	90.86
COMBINED	9.50	71.36		71.36	100.00
FLOTATION	9.00	88.07		6.53	8.88
PLUS 28	10.08	72.32	1.59	66.96	91.12
COMBINED	10.00	73.48		73.48	100.00

CUMULATIVE FLOATS WEIGHT PERCENT



POINTS PLOTTED

X	Y
12	5
37	5
55	7
62	8
67	8
72	10
99	24

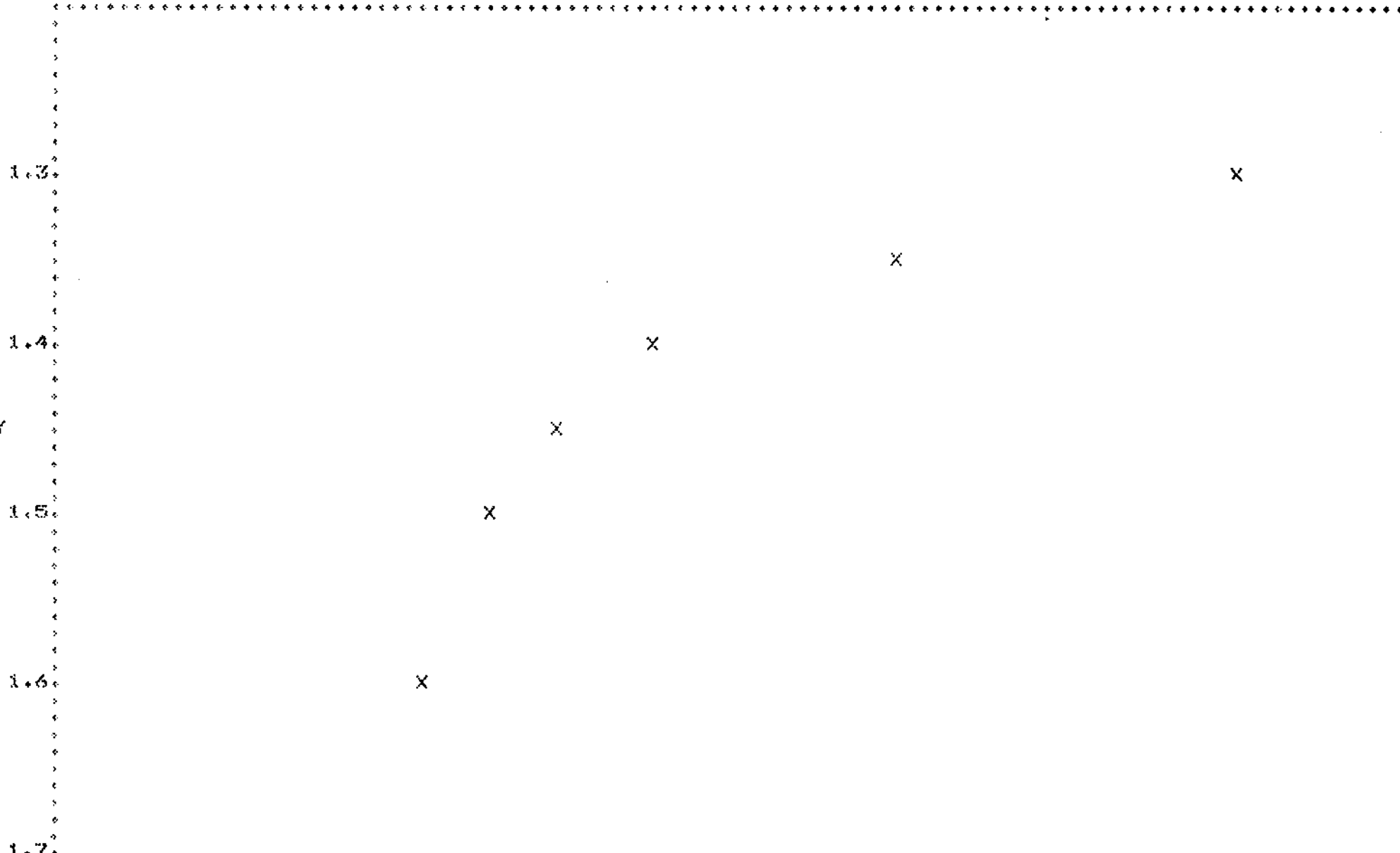
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RL CRAIN INC - 4



CUMULATIVE FLOATS WEIGHT PERCENT

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



SPECIFIC GRAVITY

POINTS PLOTTED

X	Y
12	10
37	15
55	20
62	25
67	30
72	40

COMPO NUMBER-- 14

DRILL HOLE NUMBER-- 1910

SEAM NUMBER-- 64013-23

*Upper*

FLOTATION RESULTS

PRODUCT	KEROSENE WEIGHT (GMS)	.90 WEIGHT %	FROTHER .20 ASSAY		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	307.0	93.9	6.9	5.0	73.3	95.9
TAILS	20.0	6.1	38.6	1.0	26.7	4.1
CALC. HEAD	327.	100.0	8.8		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	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	782.	18.32	18.32	1.40	0.26	0.26	1.40	14.64		81.68	17.92	1.40	9.16	7.0
1.30-1.35	1295.	30.33	48.65	6.20	1.88	2.14	4.39	12.76		51.35	24.85	6.20	33.49	2.0
1.35-1.40	899.	21.06	69.71	10.40	2.19	4.33	6.21	10.57		30.29	34.90	10.40	59.18	1.5
1.40-1.45	433.	10.14	79.85	15.60	1.58	5.91	7.40	8.99		20.15	44.62	15.60	74.78	1.0
1.45-1.50	164.	3.84	83.70	20.50	0.79	6.70	8.00	8.20		16.30	50.30	20.50	81.78	1.0
1.50-1.60	124.	2.90	86.60	26.30	0.76	7.46	8.62	7.44		13.40	55.50	26.30	85.15	1.0
1.60 STNK	572.	13.40	100.00	55.50	7.44	14.90	14.90	0.00		0.00	0.0	55.50	93.30	1.0

FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAP	RECOVERY		AND ASH CALCULATIONS		FRAI	FRI	AP
		A	R	FR	FAR			
0.0700	0.0048	4.0	44.4	0.4105	0.0164	0.0213	.481	4.4
0.0700	0.0048	6.0	67.4	0.6240	0.0374	0.0423	.694	6.1
0.0700	0.0048	8.0	83.8	0.7757	0.0621	0.0669	.846	7.9
0.0700	0.0048	10.0	92.1	0.8525	0.0852	0.0901	.922	9.8
0.0700	0.0048	12.0	97.5	0.9025	0.1083	0.1131	.972	11.6
0.0700	0.0048	14.0	99.9	0.9246	0.1294	0.1343	.995	13.5

COMPO NUMBER-- 14

DRILL HOLE NUMBER-- 1910

SEAM NUMBER-- 64013-23

DATA

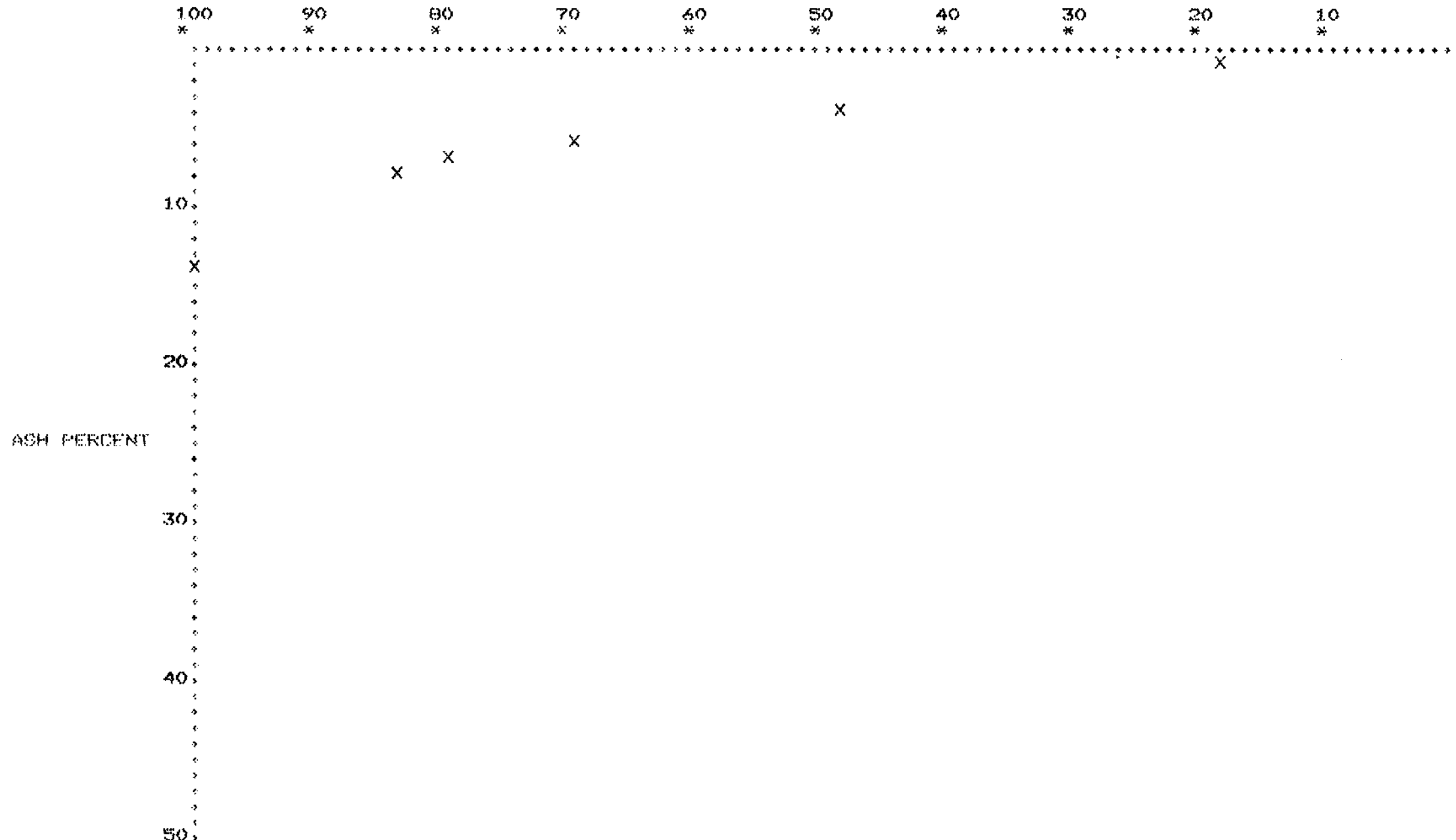
SIZE DISTRIBUTION

SIZE	WEIGHT (GMS)	WEIGHT (%)	ASH (%)
+28MESH	4246.	92.5	14.9
-28MESH	342.	7.5	8.8
FEED	4588.	100.0	14.4

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	6.90	93.88		7.00	8.03
PLUS 28	8.63	86.66	+1.60	80.20	91.97
COMBINED	8.50	87.20		87.20	100.00
FLOTATION	6.90	93.88		7.00	7.83
PLUS 28	9.17	88.98	+1.60	82.35	92.17
COMBINED	9.00	89.34		89.34	100.00
FLOTATION	6.90	93.88		7.00	7.67
PLUS 28	9.71	91.07	+1.60	84.29	92.33
COMBINED	9.50	91.28		91.28	100.00
FLOTATION	6.90	93.88		7.00	7.52
PLUS 28	10.25	92.95	+1.60	86.02	92.48
COMBINED	10.00	93.02		93.02	100.00

CUMULATIVE FLOATS WEIGHT PERCENT



POINTS PLOTTED

X	Y
18	1
48	4
69	6
79	7
83	8
86	8
99	14

CUMULATIVE FLOATS WEIGHT PERCENT

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



SPECIFIC GRAVITY

POINTS PLOTTED

X	Y
18	10
48	15
49	20
79	25
83	30
86	40

COMPO NUMBER-- 15

DRILL HOLE NUMBER-- 1910

SEAM NUMBER-- 64304-10

*4/over*

FLOTATION RESULTS

PRODUCT	KEROSENE WEIGHT (GMS)	.90 WEIGHT %	FROTHER .20		DISTRIBUTION	
			ASSAY ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	288.0	87.3	7.3	6.5	63.5	89.9
TAILS	42.0	12.7	28.8	2.0	36.5	10.1
CALC. HEAD	330.	100.0	10.0		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	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FBI
1.30	822.	25.30	25.30	3.00	0.76	0.76	3.00	18.86		74.70	25.25	3.00	12.65	7.0
1.30-1.35	708.	21.79	47.09	6.70	1.46	2.22	4.71	17.40		52.91	32.89	6.70	36.20	2.5
1.35-1.40	402.	12.37	59.46	11.90	1.47	3.69	6.21	15.93		40.54	39.30	11.90	53.28	1.5
1.40-1.45	343.	10.56	70.02	17.10	1.81	5.50	7.85	14.12		29.98	47.12	17.10	64.74	1.0
1.45-1.50	190.	5.85	75.87	21.20	1.24	6.74	8.88	12.88		24.13	53.40	21.20	72.95	1.0
1.50-1.60	127.	3.91	79.78	30.10	1.18	7.91	9.92	11.71		20.22	57.90	30.10	77.82	1.5
1.60 SINK	657.	20.22	100.00	57.90	11.71	19.62	19.62	0.0		0.00	0.0	57.90	89.89	0.5

FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFR/FAF	RECOVERY		AND ASH CALCULATIONS		FRAI	FRI	AP
		A	R	FR	FAR			
0.1175	0.0086	4.0	39.0	0.3376	0.0135	0.0221	.455	4.9
0.1175	0.0086	6.0	58.0	0.5020	0.0301	0.0387	.619	6.2
0.1175	0.0086	8.0	71.0	0.6142	0.0491	0.0577	.732	7.9
0.1175	0.0086	10.0	80.1	0.6929	0.0693	0.0779	.810	9.6
0.1175	0.0086	12.0	86.6	0.7493	0.0899	0.0985	.867	11.4
0.1175	0.0086	14.0	91.9	0.7949	0.1113	0.1199	.912	13.1
0.1175	0.0086	16.0	95.9	0.8297	0.1328	0.1413	.947	14.9
0.1175	0.0086	18.0	98.7	0.8538	0.1537	0.1623	.971	16.7

COMPO NUMBER-- 15

DRILL HOLE NUMBER-- 1910

SEAM NUMBER--

64304-10

DATA

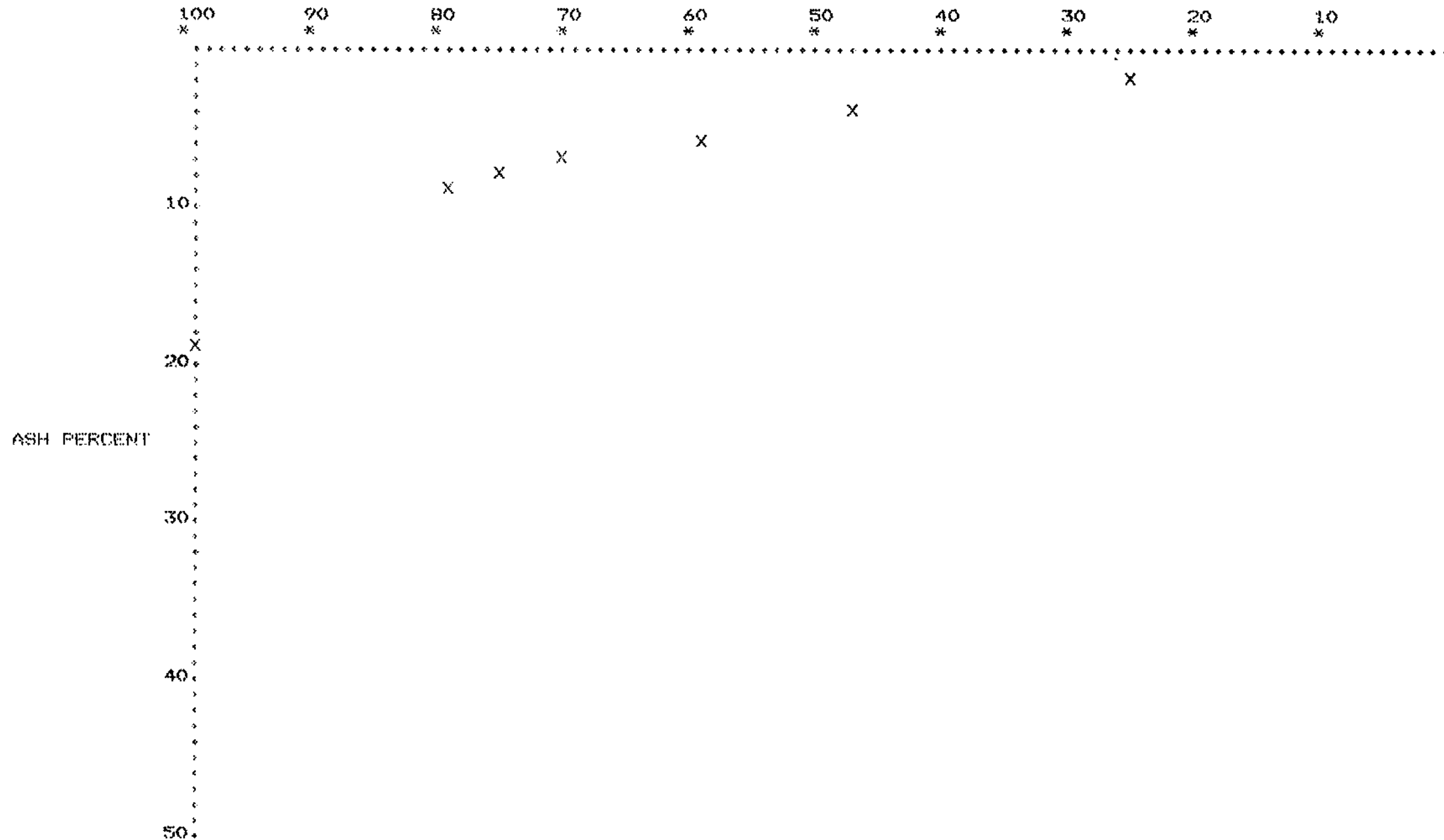
SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MESH	3291.	86.5	19.6
-28MESH	512.	13.5	10.0
FEED	3803.	100.0	18.3

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	7.30	87.27		11.75	15.35
PLUS 28	8.69	74.90	1.49	64.82	84.65
COMBINED	8.50	76.57		76.57	100.00
FLOTATION	7.30	87.27		11.75	14.91
PLUS 28	9.26	77.47	1.53	67.04	85.09
COMBINED	9.00	78.79		78.79	100.00
FLOTATION	7.30	87.27		11.75	14.58
PLUS 28	9.84	79.55	1.59	68.84	85.42
COMBINED	9.50	80.59		80.59	100.00
FLOTATION	7.30	87.27		11.75	14.27
PLUS 28	10.42	81.54	1.60	70.56	85.73
COMBINED	10.00	82.31		82.31	100.00

CUMULATIVE FLOATS WEIGHT PERCENT



POINTS PLOTTED

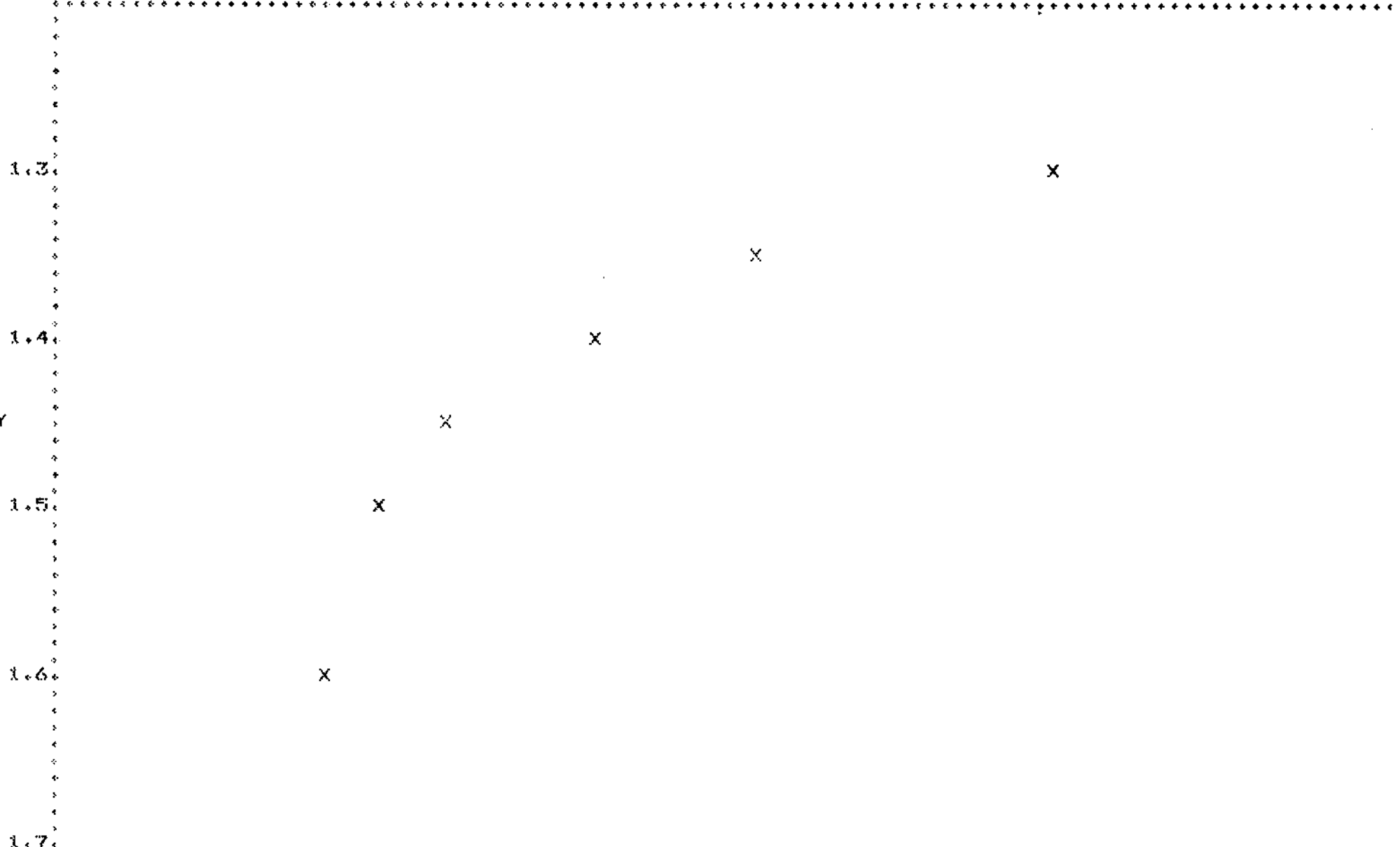
X	Y
25	2
47	4
59	6
70	7
75	8
79	9
99	19

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R.L. CRAMINC 4

CUMULATIVE FLOATS WEIGHT PERCENT

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



SPECIFIC GRAVITY

POINTS PLOTTED

X	Y
25	10
47	15
59	20
70	25
75	30
79	40

COMPO NUMBER- 16

DRILL HOLE NUMBER- 1911

SEAM NUMBER- 62552-60

40

FLOTATION RESULTS

PRODUCT	KEROSENE WEIGHT (GMS)	.90 WEIGHT %	FROTHER .20		DISTRIBUTION	
			ASSAY ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	224.0	68.7	8.5	4.5	41.9	73.1
TAILS	102.0	31.3	25.9	1.5	58.1	26.9
CALC. HEAD	326.	100.0	13.9		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	574.	22.41	22.41	3.80	0.85	0.85	3.80	13.32		77.59	17.17	3.80	11.21	6.0
1.30-1.35	906.	35.38	57.79	6.90	2.44	3.29	5.70	10.88		42.21	25.77	6.90	40.10	1.5
1.35-1.40	368.	14.37	72.16	11.30	1.62	4.92	6.81	9.25		27.84	33.24	11.30	64.97	1.5
1.40-1.45	192.	7.50	79.66	16.70	1.25	6.17	7.74	8.00		20.34	39.33	16.70	75.91	1.0
1.45-1.50	131.	5.12	84.77	21.40	1.09	7.26	8.57	6.91		15.23	45.36	21.40	82.21	1.0
1.50-1.60	139.	5.43	90.20	26.50	1.44	8.70	9.65	5.47		9.60	55.80	26.50	87.49	1.0
1.60 SINK	251.	9.80	100.00	55.80	5.47	14.17	14.17	0.00		0.00	0.0	55.80	95.10	0.5

FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAP	RECOVERY AND ASH CALCULATIONS				FRAI	FRI	AP
		A	R	FR	FAR			
0.1014	0.0086	4.0	26.8	0.2284	0.0091	0.0178	.330	5.4
0.1014	0.0086	6.0	62.2	0.5304	0.0318	0.0404	.632	6.4
0.1014	0.0086	8.0	81.4	0.6943	0.0555	0.0642	.796	8.1
0.1014	0.0086	10.0	91.7	0.7819	0.0782	0.0868	.883	9.8
0.1014	0.0086	12.0	97.9	0.8346	0.1002	0.1088	.936	11.6
0.1014	0.0086	14.0	****	0.8526	0.1194	0.1280	.954	13.4



COMPO NUMBER- 16

DRILL HOLE NUMBER- 1911

SEAM NUMBER-

62552-60

DATA

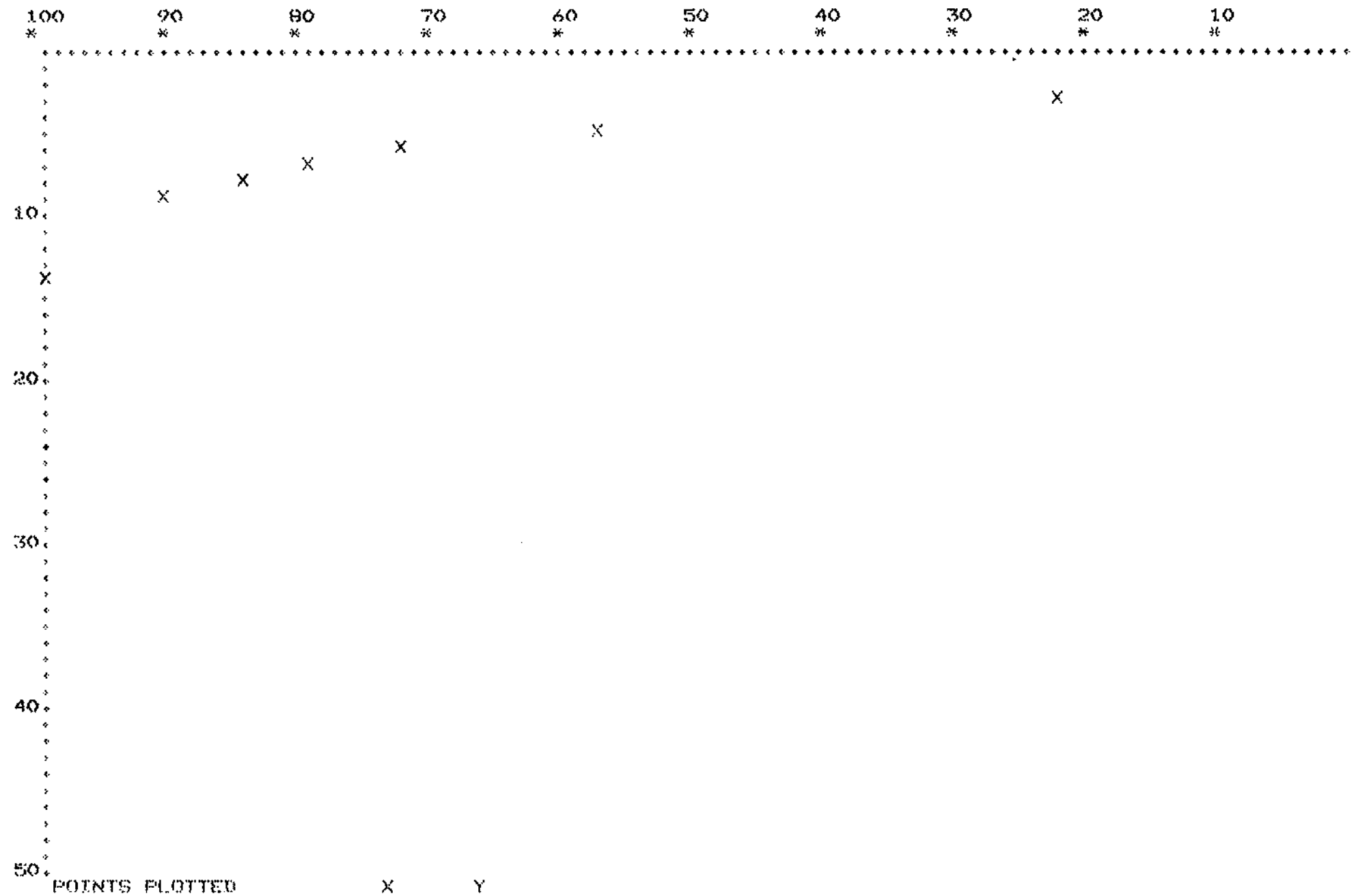
SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MESH	2976.	85.2	14.2
-28MESH	515.	14.8	13.9
FEED	3491.	100.0	14.1

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	8.50	68.71		10.14	12.34
PLUS 28	8.50	84.47	1.50	72.01	87.66
COMBINED	8.50	82.15		82.15	100.00
FLOTATION	8.50	68.71		10.14	11.95
PLUS 28	9.09	87.58	1.54	74.66	88.05
COMBINED	9.00	84.80		84.80	100.00
FLOTATION	8.50	68.71		10.14	11.63
PLUS 28	9.67	90.32	+1.60	76.99	88.37
COMBINED	9.50	87.13		87.13	100.00
FLOTATION	8.50	68.71		10.14	11.36
PLUS 28	10.26	92.75	+1.60	79.07	88.64
COMBINED	10.00	89.21		89.21	100.00

CUMULATIVE FLOATS WEIGHT PERCENT



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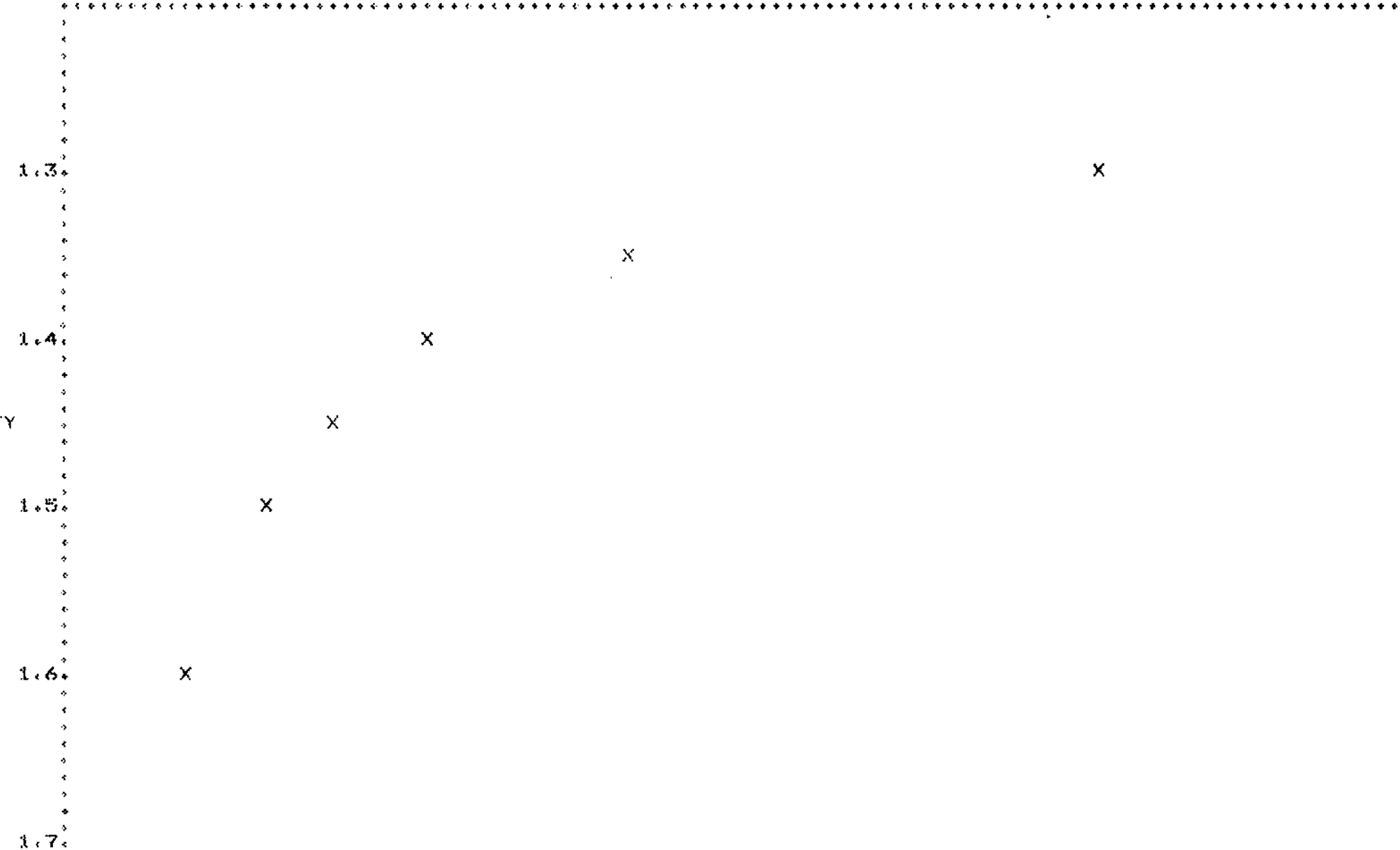
POINTS PLOTTED

X	Y
92	34
87	25
72	18
70	15
84	12
90	10
99	14

440000

CUMULATIVE FLOATS WEIGHT PERCENT

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



SPECIFIC GRAVITY

POINTS PLOTTED

X	Y
22	10
57	15
72	20
79	25
84	30
90	40

COMPO NUMBER-- 18

DRILL HOLE NUMBER-- 1911

SEAM NUMBER-- 4 62563-69

FLOTATION RESULTS

PRODUCT	KEROSENE WEIGHT (GMS)	FROTHER WEIGHT %	ASSAY		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	232.0	70.9	10.3	6.0	37.0	79.3
TAILS	95.0	29.1	42.9	1.0	63.0	20.7
CALC. HEAD	327.	100.0	19.8		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	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	551.	17.51	17.51	4.10	0.72	0.72	4.10	34.91		82.49	42.32	4.10	8.75	7.5
1.30-1.35	630.	20.02	37.53	7.50	1.50	2.22	5.91	33.41		62.47	53.47	7.50	27.52	2.0
1.35-1.40	383.	12.17	49.70	11.60	1.41	3.63	7.31	31.99		50.30	63.60	11.60	43.61	1.0
1.40-1.45	160.	5.08	54.78	17.60	0.89	4.53	8.26	31.10		45.22	68.78	17.60	52.24	1.0
1.45-1.50	62.	1.97	56.75	22.80	0.45	4.98	8.77	30.65		43.25	70.87	22.80	55.77	1.5
1.50-1.60	141.	4.48	61.23	29.10	1.30	6.28	10.25	29.35		38.77	75.70	29.10	58.99	1.0
1.60 SINK	1220.	38.77	100.00	75.70	29.35	35.63	35.63	0.0		0.00	0.0	75.70	80.62	0.0

FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAF	RECOVERY		AND ASH CALCULATIONS		FRAI	FRI	AP
		A	R	FR	FAR			
0.1172	0.0121	4.0	16.3	0.1358	0.0054	0.0175	.253	6.9
0.1172	0.0121	6.0	38.4	0.3207	0.0192	0.0313	.438	7.2
0.1172	0.0121	8.0	53.7	0.4481	0.0358	0.0479	.565	8.5
0.1172	0.0121	10.0	60.6	0.5057	0.0506	0.0626	.623	10.1
0.1172	0.0121	12.0	66.2	0.5525	0.0663	0.0784	.670	11.7
0.1172	0.0121	14.0	71.4	0.5963	0.0835	0.0956	.714	13.4
0.1172	0.0121	16.0	76.2	0.6365	0.1018	0.1139	.754	15.1
0.1172	0.0121	18.0	80.6	0.6730	0.1211	0.1332	.790	16.9
0.1172	0.0121	20.0	84.5	0.7058	0.1412	0.1532	.823	18.6

COMPO NUMBER- 18

DRILL HOLE NUMBER- 1911

SEAM NUMBER- 62563-69

DATA

SIZE DISTRIBUTION

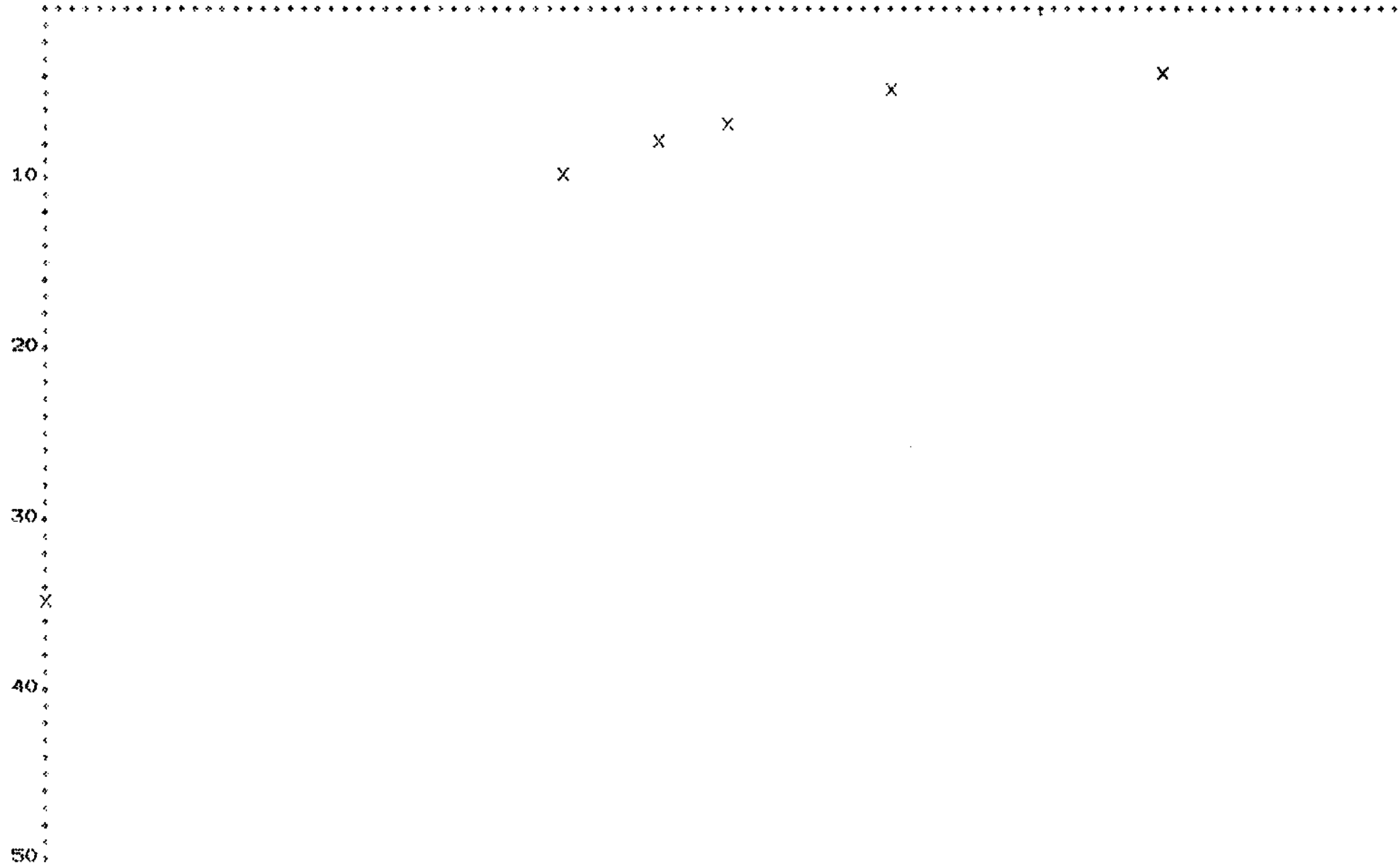
SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MESH	3554.	83.5	35.6
-28MESH	703.	16.5	19.8
FEED	4257.	100.0	33.0

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	10.30	70.95		11.72	20.53
PLUS 28	8.14	54.34	1.44	45.36	79.47
COMBINED	8.50	57.08		57.08	100.00
FLOTATION	10.30	70.95		11.72	19.83
PLUS 28	8.74	56.75	1.50	47.38	80.17
COMBINED	9.00	59.10		59.10	100.00
FLOTATION	10.30	70.95		11.72	19.31
PLUS 28	9.34	58.65	1.55	48.96	80.69
COMBINED	9.50	60.68		60.68	100.00
FLOTATION	10.30	70.95		11.72	18.85
PLUS 28	9.94	60.41	1.59	50.43	81.15
COMBINED	10.00	62.15		62.15	100.00

CUMULATIVE FLOATS WEIGHT PERCENT

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



ASH PERCENT

POINTS PLOTTED

X	Y
17	4
37	7
49	8
54	8
56	8
61	10
99	35

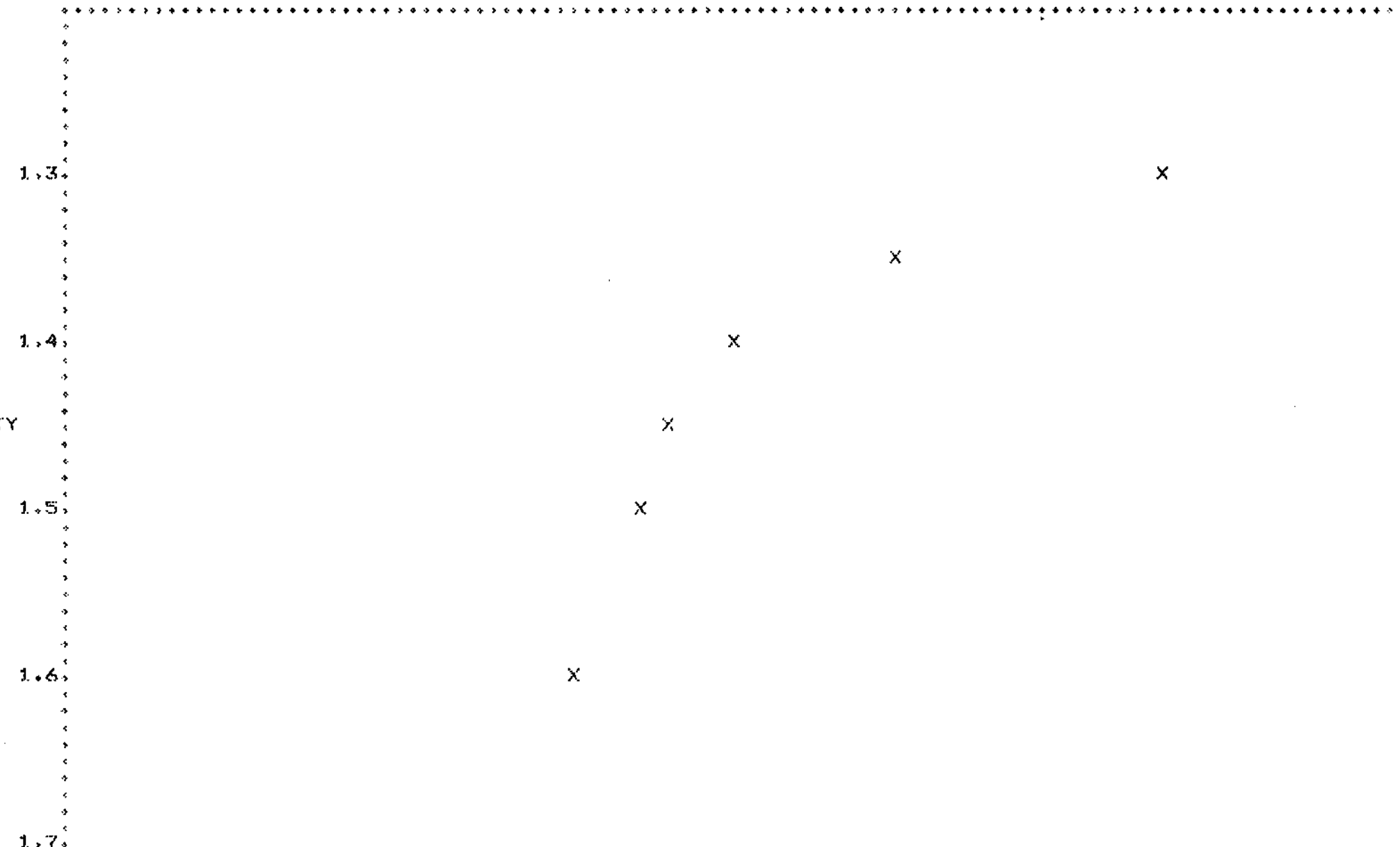
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R.L. CRAM INC. - 4



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
17	10
37	15
49	20
54	25
56	30
61	40

COMPO NUMBER-- 20

DRILL HOLE NUMBER-- 1911

SEAM NUMBER-- 62571

122.8 - 126.4

FLOTATION RESULTS

PRODUCT	KEROSENE .90		FROTHER .20		DISTRIBUTION	
	WEIGHT (GMS)	WEIGHT %	ASSAY ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	249.0	76.1	7.5	8.5	34.5	84.4
TAILS	78.0	23.9	45.5	1.5	65.5	15.6
CALC. HEAD	327.	100.0	16.6		100.0	100.0

PRODUCT	KEROSENE .75		FROTHER .15		DISTRIBUTION	
	WEIGHT (GMS)	WEIGHT %	ASSAY ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	230.0	70.1	6.6	8.5	27.4	78.8
TAILS	98.0	29.9	41.0	4.0	72.6	21.2
CALC. HEAD	328.	100.0	16.9		100.0	100.0

TABLE 1

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

SB	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	967.	28.15	28.15	3.10	0.87	0.87	3.10	40.55	71.85	56.44	3.10	14.08	8.5	
1.30-1.35	433.	12.61	40.76	7.20	0.91	1.78	4.37	39.65	59.24	66.92	7.20	34.45	7.5	
1.35-1.40	190.	5.53	46.29	12.00	0.66	2.44	5.28	38.98	53.71	72.58	12.00	43.52	6.5	
1.40-1.45	116.	3.38	49.67	15.40	0.52	2.96	5.97	38.46	50.33	76.41	15.40	47.98	3.0	
1.45-1.50	62.	1.80	51.47	20.70	0.37	3.34	6.48	38.09	48.53	78.49	20.70	50.57	1.0	
1.50-1.60	88.	2.56	54.03	26.20	0.67	4.01	7.42	37.42	45.97	81.40	26.20	52.75	1.0	
1.60 STNK	1579.	45.97	100.00	81.40	37.42	41.43	41.43	0.00	0.00	0.0	81.40	77.02	0.0	

FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAP	RECOVERY		AND ASH CALCULATIONS		FRAI	FRI	AP
		A	R	FR	FAR			
0.1186	0.0078	4.0	37.7	0.3132	0.0125	0.0204	.432	4.7
0.1186	0.0078	6.0	49.8	0.4136	0.0248	0.0326	.532	6.1
0.1186	0.0078	8.0	55.6	0.4619	0.0369	0.0448	.580	7.7
0.1186	0.0078	10.0	60.7	0.5047	0.0505	0.0583	.623	9.4
0.1186	0.0078	12.0	65.6	0.5449	0.0654	0.0732	.663	11.0
0.1186	0.0078	14.0	70.1	0.5824	0.0815	0.0894	.701	12.7
0.1186	0.0078	16.0	74.3	0.6174	0.0988	0.1066	.736	14.5
0.1186	0.0078	18.0	78.2	0.6496	0.1169	0.1248	.768	16.2
0.1186	0.0078	20.0	81.8	0.6792	0.1358	0.1437	.798	18.0

COMPO NUMBER- 20

DRILL HOLE NUMBER- 1911

SEAM NUMBER-

62571

DATA

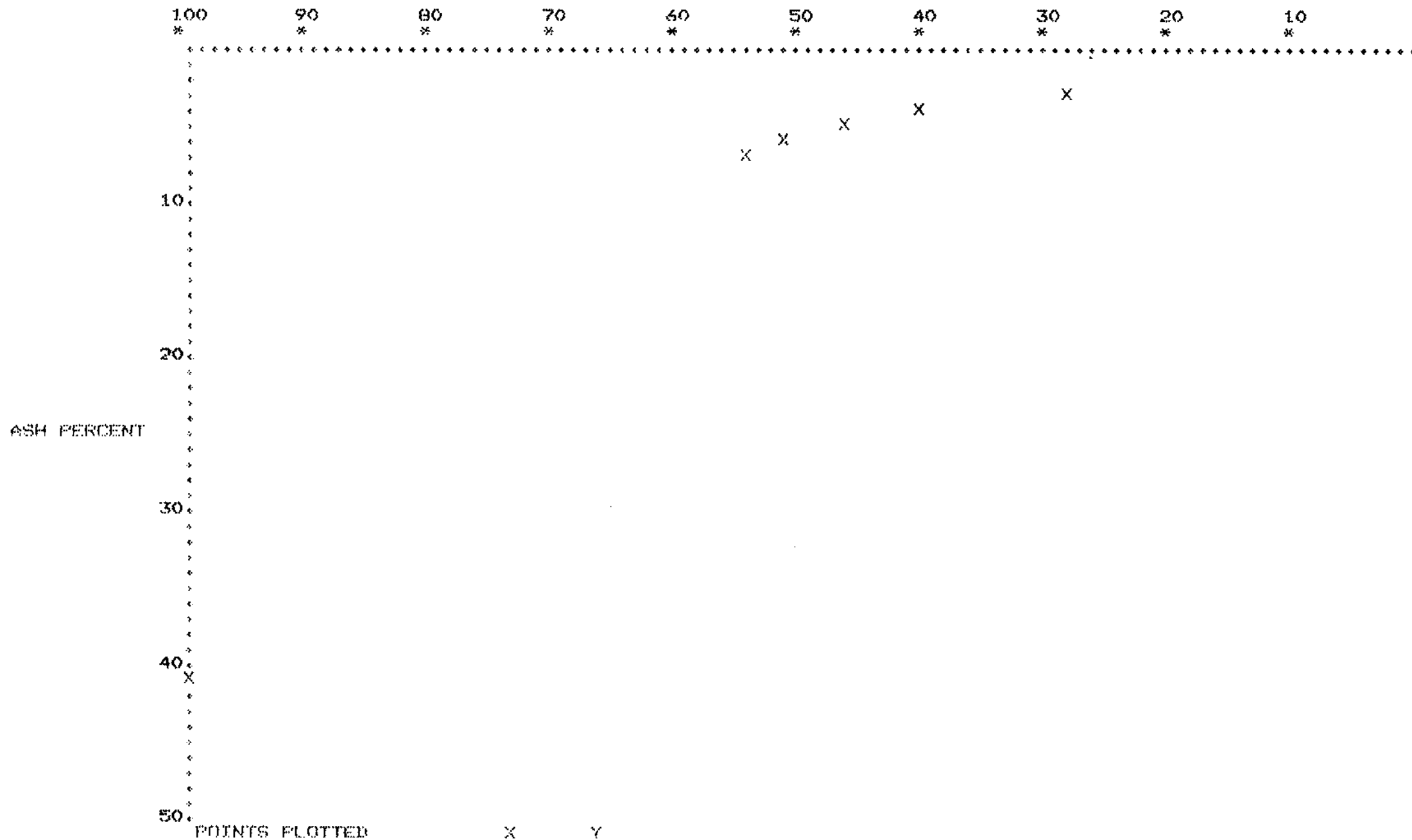
SIZE DISTRIBUTION

SIZE	WEIGHT (GMS)	WEIGHT (%)	ASH (%)
+28MESH	3478.	83.1	41.4
--28MESH	708.	16.9	16.9
FEED	4186.	100.0	37.3

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	6.60	70.12		11.86	19.77
PLUS 28	8.89	57.91	+1.60	48.12	80.23
COMBINED	8.50	59.98		59.98	100.00
FLOTATION	6.60	70.12		11.86	19.36
PLUS 28	9.49	59.46	+1.60	49.40	80.64
COMBINED	9.00	61.26		61.26	100.00
FLOTATION	6.60	70.12		11.86	18.97
PLUS 28	10.09	60.97	+1.60	50.66	81.03
COMBINED	9.50	62.52		62.52	100.00
FLOTATION	6.60	70.12		11.86	18.60
PLUS 28	10.69	62.45	+1.60	51.89	81.40
COMBINED	10.00	63.75		63.75	100.00

CUMULATIVE FLOATS WEIGHT PERCENT



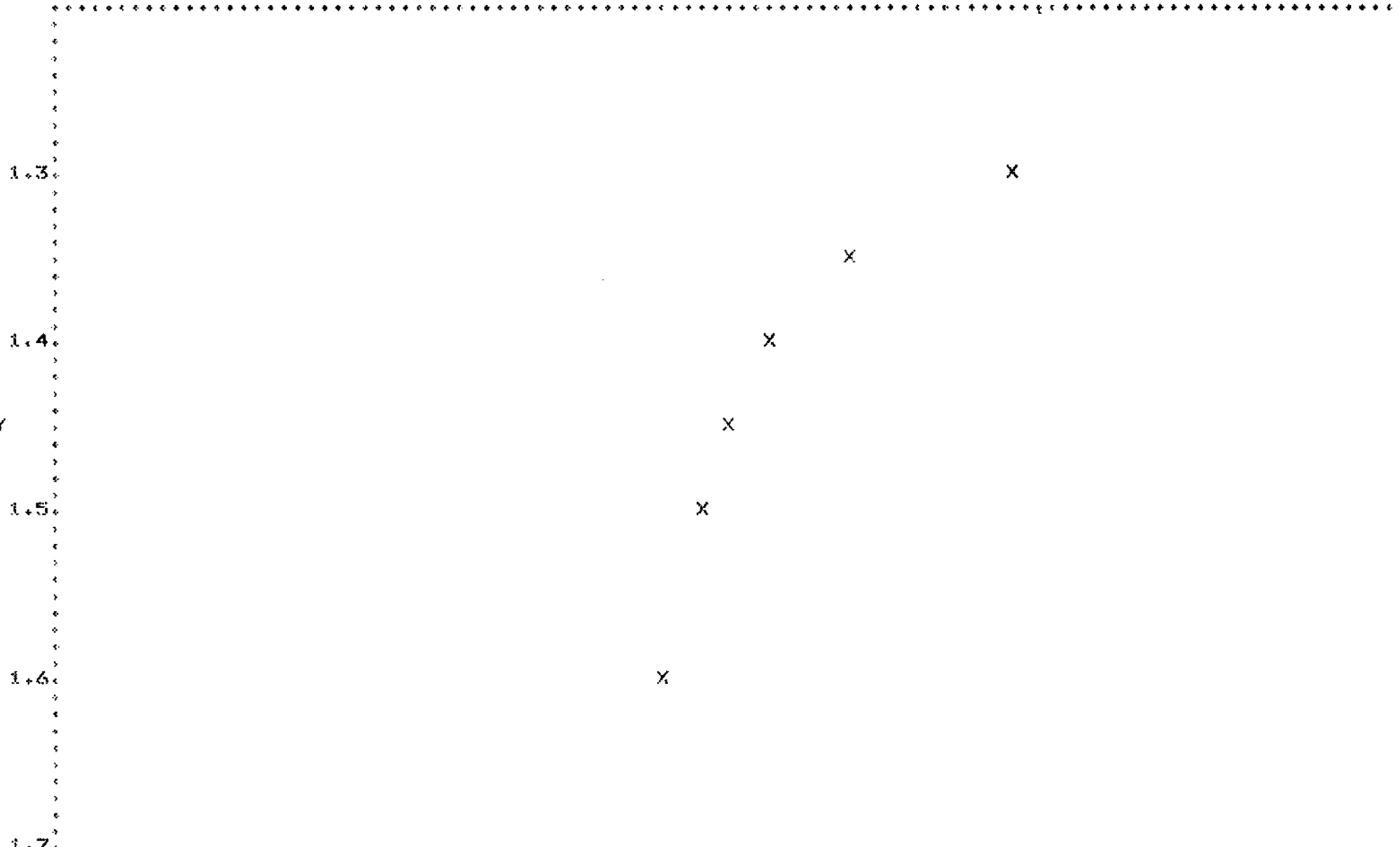
X	Y
28	3
40	4
46	5
49	5
51	6
54	7
99	41

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R.L. CRAIN INC - 4

CUMULATIVE FLOATS WEIGHT PERCENT

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



SPECIFIC GRAVITY

POINTS PLOTTED

X	Y
28	10
40	15
46	20
49	25
51	30
54	40

COMPO NUMBER-- 21

DRILL HOLE NUMBER-- 1911

SEAM NUMBER-- 64360-62

\*\* NO FLOTATION RUNS \*\*

HEAD SAMPLE

WEIGHT %	ASSAY	
	ASH	FSI
100.0	9.7	8.5

142.1-143.6



TABLE 1

WASHABILITY CURVE CALCULATIONS FOR (+20MESH) FRACTION

SD	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	456.	27.79	27.79	3.30	0.92	0.92	3.30	29.37	72.21	40.67	3.30	13.89	8.5
1.30-1.35	190.	11.58	39.37	6.60	0.76	1.68	4.27	28.61	60.63	47.18	6.60	33.58	7.0
1.35-1.40	144.	8.78	48.14	11.40	1.00	2.68	5.57	27.61	51.86	53.23	11.40	43.75	5.5
1.40-1.45	97.	5.91	54.05	15.10	0.89	3.57	6.61	26.71	45.95	58.14	15.10	51.10	4.0
1.45-1.50	75.	4.57	58.62	21.00	0.96	4.53	7.73	25.75	41.38	62.24	21.00	56.34	4.0
1.50-1.60	97.	5.91	64.53	27.70	1.64	6.17	9.56	24.12	35.47	68.00	27.70	61.58	1.0
1.60 SINK	582.	35.47	100.00	68.00	24.12	30.29	30.29	0.00	0.00	0.0	68.00	82.27	1.0

FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAP	RECOVERY AND ASH CALCULATIONS						
		A	R	FR	FAR	FRAI	FRI	AP
0.0	0.0	4.0	36.6	0.3112	0.0124	0.0124	.311	4.0
0.0	0.0	6.0	50.7	0.4318	0.0259	0.0259	.432	6.0
0.0	0.0	8.0	59.6	0.5067	0.0405	0.0405	.507	8.0
0.0	0.0	10.0	65.9	0.5605	0.0561	0.0561	.561	10.0
0.0	0.0	12.0	71.7	0.6101	0.0732	0.0732	.610	12.0
0.0	0.0	14.0	77.0	0.6551	0.0917	0.0917	.655	14.0
0.0	0.0	16.0	81.8	0.6956	0.1113	0.1113	.696	16.0
0.0	0.0	18.0	86.0	0.7314	0.1316	0.1316	.731	18.0
0.0	0.0	20.0	89.6	0.7626	0.1525	0.1525	.763	20.0

COMPO NUMBER-- 21

DRILL HOLE NUMBER-- 1911

SEAM NUMBER-- 64360-62

## DATA

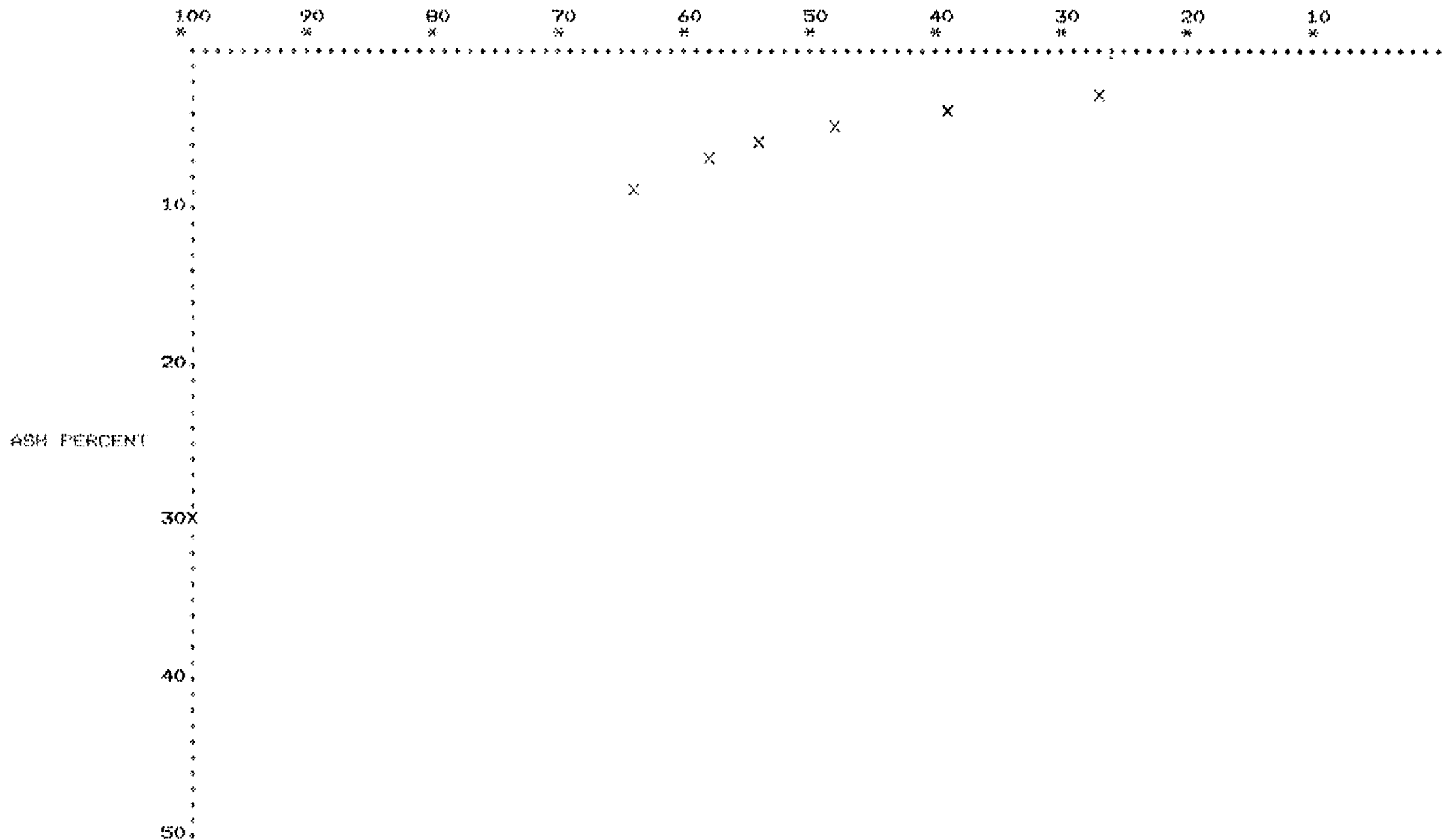
## SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MESH	1859.	85.1	30.3
-28MESH	326.	14.9	9.7
FEED	2185.	100.0	27.2

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	9.99	65.85	+1.60	56.03	100.00
COMBINED	8.50	56.03		56.03	100.00
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	10.58	67.62	+1.60	57.53	100.00
COMBINED	9.00	57.53		57.53	100.00
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	11.17	69.34	+1.60	59.00	100.00
COMBINED	9.50	59.00		59.00	100.00
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	11.75	71.02	+1.60	60.43	100.00
COMBINED	10.00	60.43		60.43	100.00

CUMULATIVE FLOATS WEIGHT PERCENT



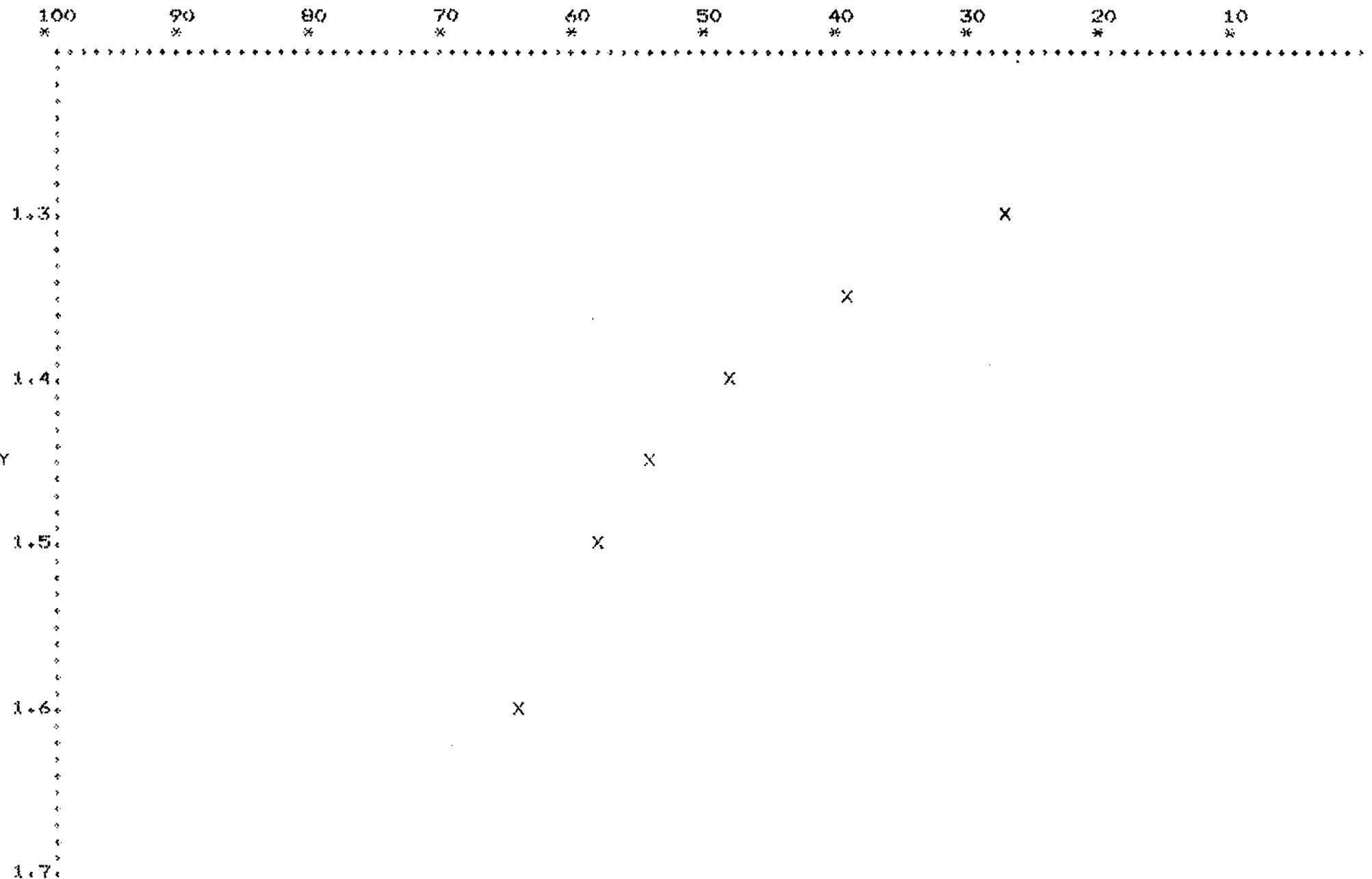
POINTS PLOTTED

X	Y
27	3
39	4
48	5
54	6
58	7
64	9
99	30

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CUMULATIVE FLOATS WEIGHT PERCENT



SPECIFIC GRAVITY

POINTS PLOTTED

X	Y
27	10
39	15
48	20
54	25
58	30
64	40

COMPO NUMBER- 22

DRILL HOLE NUMBER- 1911

SEAM NUMBER- 64363-67

7

FLOTATION RESULTS

PRODUCT	KEROSENE WEIGHT (GMS)	.90 WEIGHT %	FROTHER .20 ASSAY		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	264.0	80.7	8.4	7.5	49.1	85.8
TAILS	63.0	19.3	36.5	3.5	50.9	14.2
CALC. HEAD	327.	100.0	13.8		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	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	509.	19.33	19.33	3.00	0.58	0.58	3.00	25.29		80.67	31.35	3.00	9.67	8.5
1.30-1.35	229.	8.70	28.03	7.90	0.69	1.27	4.52	24.60		71.97	34.18	7.90	23.68	8.0
1.35-1.40	271.	10.29	38.32	12.70	1.31	2.57	6.72	23.30		61.68	37.77	12.70	33.18	6.5
1.40-1.45	289.	10.98	49.30	17.50	1.92	4.49	9.12	21.38		50.70	42.16	17.50	43.81	5.0
1.45-1.50	202.	7.67	56.97	22.00	1.69	6.18	10.85	19.69		43.03	45.75	22.00	53.13	4.5
1.50-1.60	226.	8.58	65.55	27.10	2.33	8.51	12.98	17.36		34.45	50.40	27.10	61.26	2.5
1.60 SINK	907.	34.45	100.00	50.40	17.36	25.87	25.87	0.00		0.00	0.0	50.40	82.78	1.0

FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAF	RECOVERY		AND ASH CALCULATIONS		FRAI	FRI	AP
		A	R	FR	FAR			
0.0994	0.0083	4.0	25.2	0.2210	0.0088	0.0172	.320	5.4
0.0994	0.0083	6.0	35.1	0.3080	0.0185	0.0268	.407	6.6
0.0994	0.0083	8.0	44.2	0.3879	0.0310	0.0394	.487	8.1
0.0994	0.0083	10.0	53.2	0.4669	0.0467	0.0550	.566	9.7
0.0994	0.0083	12.0	61.7	0.5411	0.0649	0.0733	.640	11.4
0.0994	0.0083	14.0	69.4	0.6083	0.0852	0.0935	.708	13.2
0.0994	0.0083	16.0	76.3	0.6693	0.1071	0.1154	.769	15.0
0.0994	0.0083	18.0	82.5	0.7239	0.1303	0.1386	.823	16.8
0.0994	0.0083	20.0	88.0	0.7721	0.1544	0.1628	.871	18.7



COMPD NUMBER-- 22

DRILL HOLE NUMBER-- 1911

SEAM NUMBER-- 64363-67

DATA

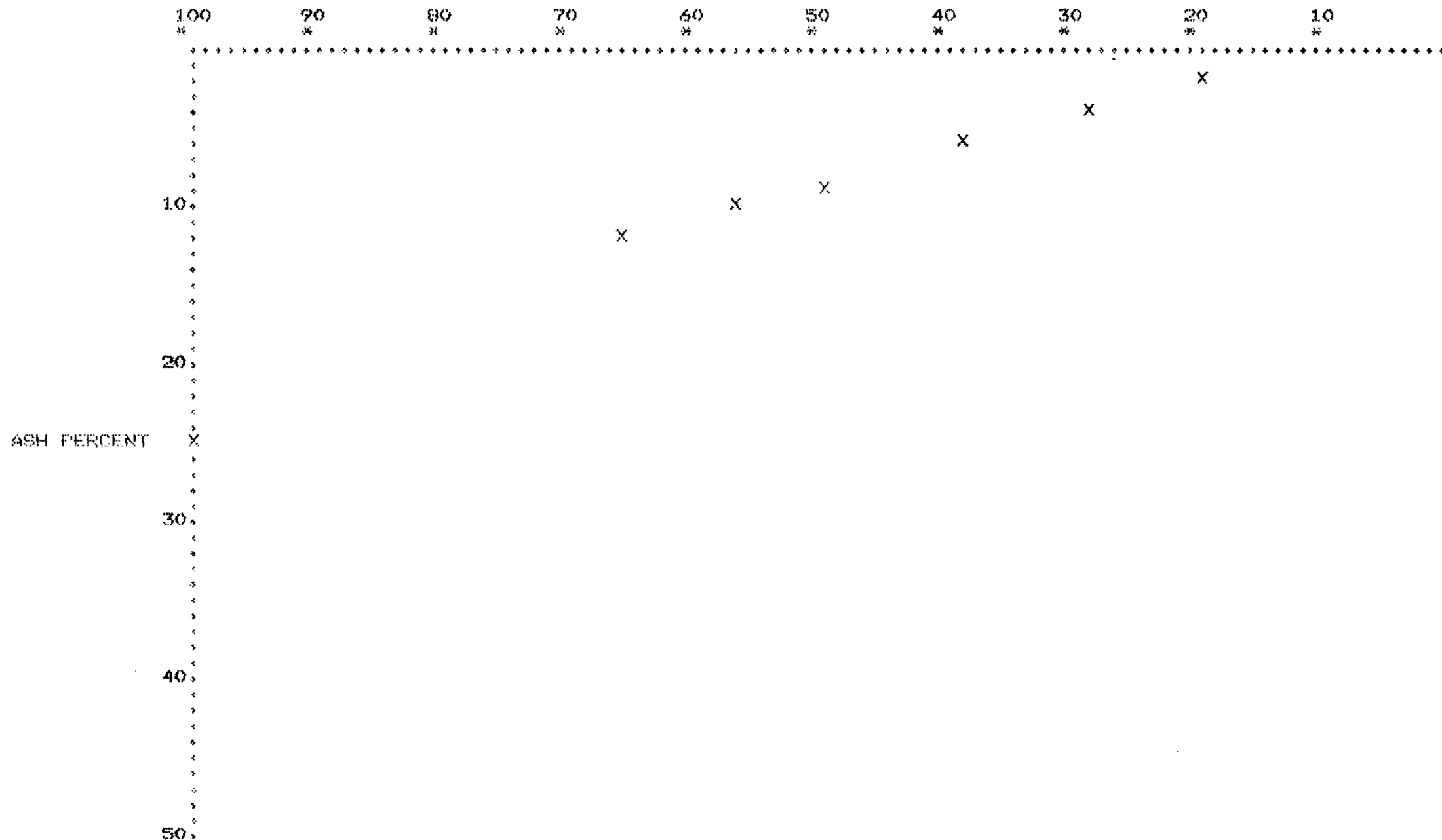
SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MESH	3070.	87.7	25.9
--28MESH	431.	12.3	13.8
FEED	3501.	100.0	24.4

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	8.40	80.73		9.94	19.57
PLUS 28	8.51	46.57	1.44	40.84	80.43
COMBINED	8.50	50.78		50.78	100.00
FLOTATION	8.40	80.73		9.94	18.74
PLUS 28	9.08	49.15	1.45	43.10	81.26
COMBINED	9.00	53.04		53.04	100.00
FLOTATION	8.40	80.73		9.94	17.98
PLUS 28	9.65	51.71	1.46	45.35	82.02
COMBINED	9.50	55.29		55.29	100.00
FLOTATION	8.40	80.73		9.94	17.28
PLUS 28	10.22	54.24	1.48	47.56	82.72
COMBINED	10.00	57.50		57.50	100.00

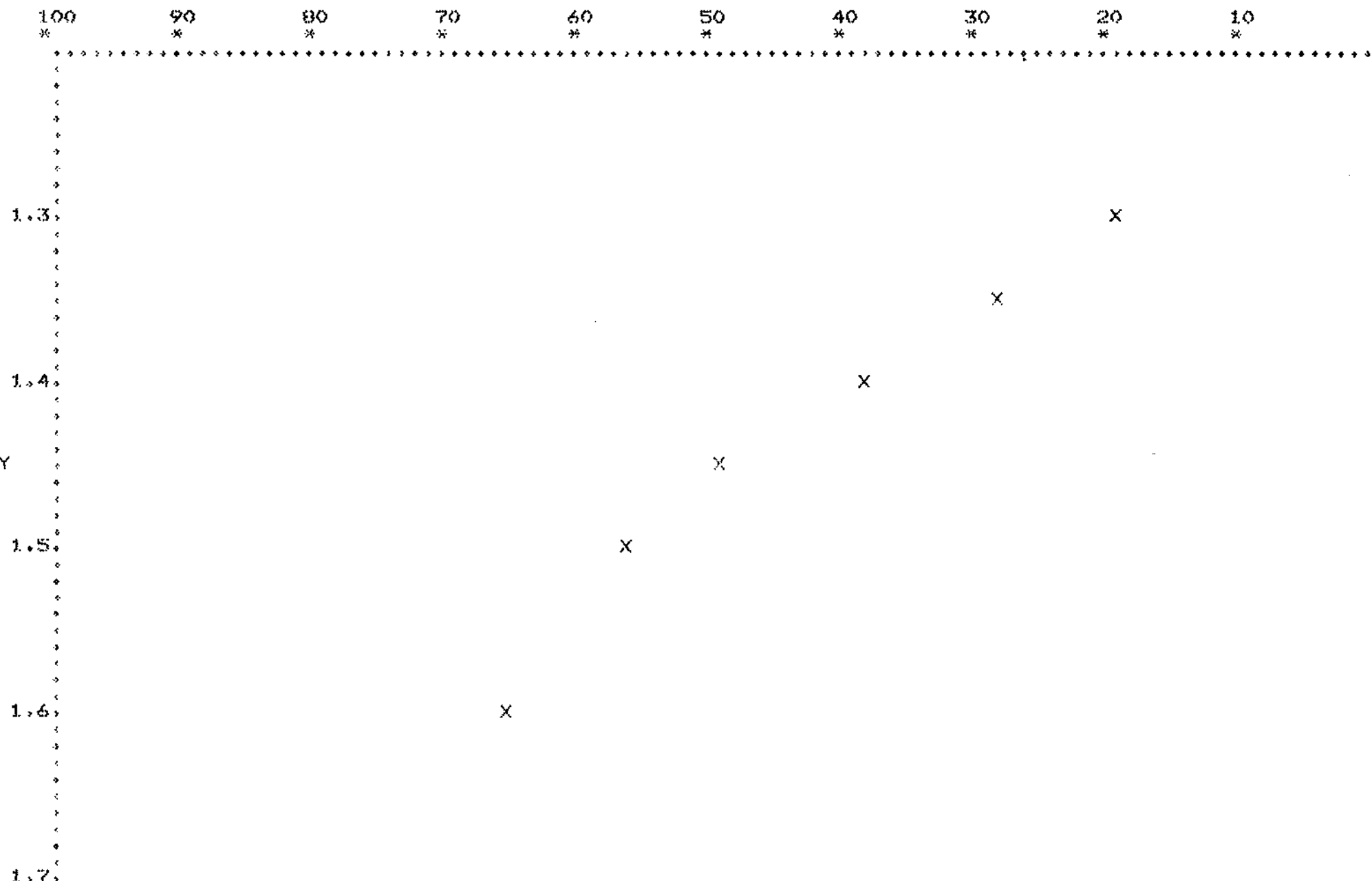
CUMULATIVE FLOATS WEIGHT PERCENT



POINTS PLOTTED

X	Y
19	25
28	12
38	6
49	9
56	10
65	12
99	25

CUMULATIVE FLOATS WEIGHT PERCENT



SPECIFIC GRAVITY

POINTS PLOTTED

X	Y
19	10
28	15
38	20
49	25
56	30
65	40

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R.L. GRAIN INC. - 4

COMFO NUMBER- 23

DRILL HOLE NUMBER- 1911

SEAM NUMBER- 64368-70

\*\* NO FLOTATION RUNS \*\*

HEAD SAMPLE

WEIGHT %	ASSAY	
	ASH	FSI
100.0	12.9	7.0

155.6 - 157.1

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	195.	9.83	9.83	3.60	0.35	0.35	3.60	24.71		90.17	27.40	3.60	4.91	8.0
1.30-1.35	231.	11.64	21.47	7.90	0.92	1.27	5.93	23.79		78.53	30.29	7.90	15.65	7.5
1.35-1.40	246.	12.40	33.87	11.10	1.38	2.65	7.82	22.41		66.13	33.89	11.10	27.67	2.5
1.40-1.45	201.	10.13	44.00	15.70	1.59	4.24	9.64	20.82		56.00	37.18	15.70	38.94	1.5
1.45-1.50	261.	13.16	57.16	21.70	2.85	7.10	12.41	17.97		42.84	41.94	21.70	50.58	1.0
1.50-1.60	335.	16.89	74.04	28.00	4.73	11.82	15.97	13.24		25.96	51.00	28.00	65.60	1.0
1.60 SINK	518.	25.96	100.00	51.00	13.24	25.06	25.06	0.00		0.00	0.0	51.00	87.02	1.0

FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAP	RECOVERY AND ASH CALCULATIONS		FR	FAR	FRAI	FRI	AP
		A	R					
0.0	0.0	4.0	11.5	0.1037	0.0041	0.0041	.104	4.0
0.0	0.0	6.0	21.9	0.1969	0.0118	0.0118	.197	6.0
0.0	0.0	8.0	34.9	0.3138	0.0251	0.0251	.314	8.0
0.0	0.0	10.0	45.8	0.4116	0.0412	0.0412	.412	10.0
0.0	0.0	12.0	55.3	0.4968	0.0596	0.0596	.497	12.0
0.0	0.0	14.0	64.9	0.5834	0.0817	0.0817	.583	14.0
0.0	0.0	16.0	74.2	0.6666	0.1067	0.1067	.667	16.0
0.0	0.0	18.0	82.0	0.7368	0.1326	0.1326	.737	18.0
0.0	0.0	20.0	88.6	0.7963	0.1593	0.1593	.796	20.0

COMPO NUMBER-- 23

DRILL HOLE NUMBER-- 1911

SEAM NUMBER-- 64368-70

DATA

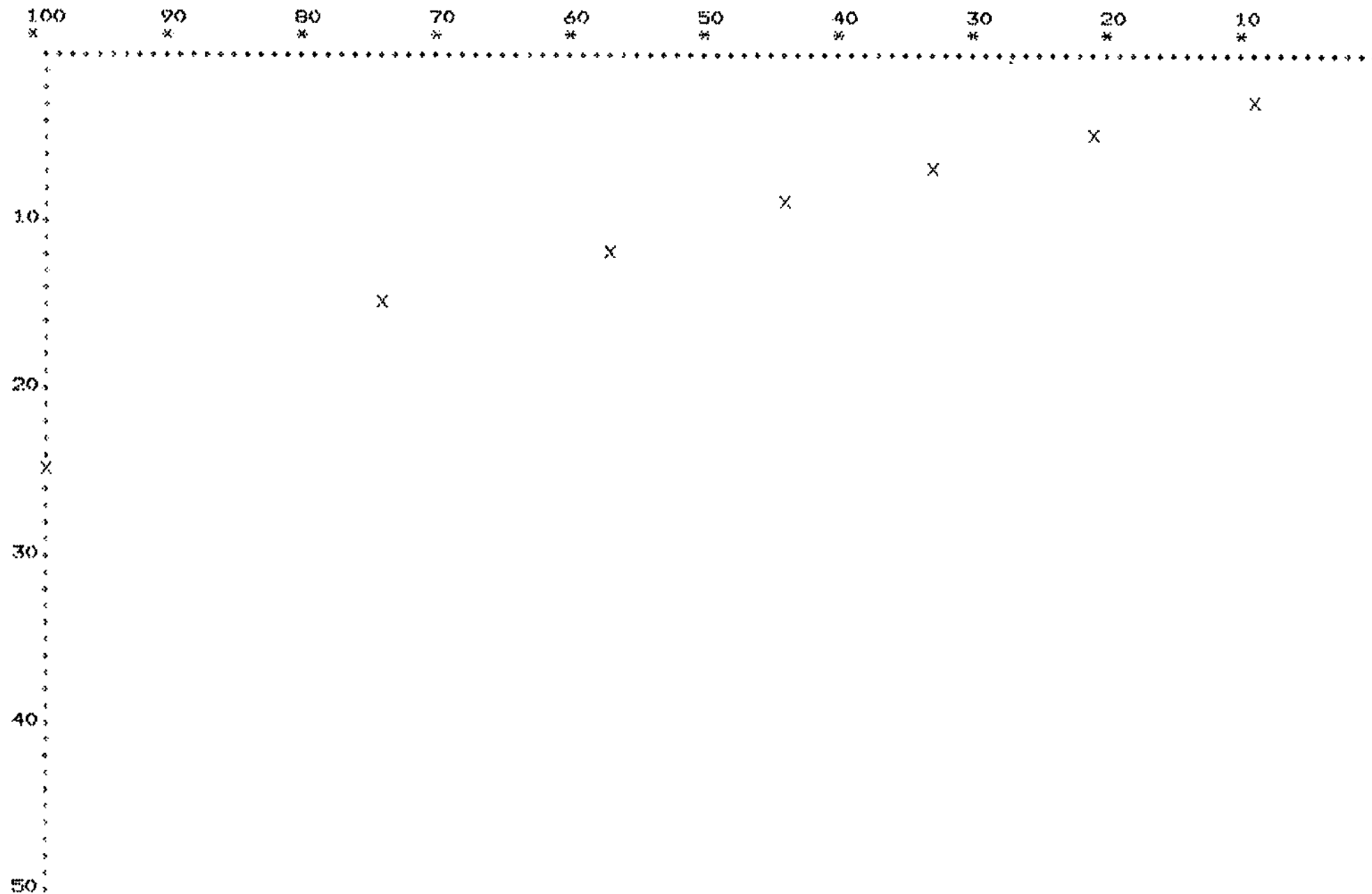
SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MESH	2419.	89.9	25.1
-28MESH	273.	10.1	12.9
FEED	2692.	100.0	23.8

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	9.46	43.08	1.45	38.71	100.00
COMBINED	8.50	38.71		38.71	100.00
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	10.02	45.88	1.46	41.23	100.00
COMBINED	9.00	41.23		41.23	100.00
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	10.57	48.59	1.47	43.66	100.00
COMBINED	9.50	43.66		43.66	100.00
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	11.13	51.25	1.48	46.05	100.00
COMBINED	10.00	46.05		46.05	100.00

CUMULATIVE FLOATS WEIGHT PERCENT



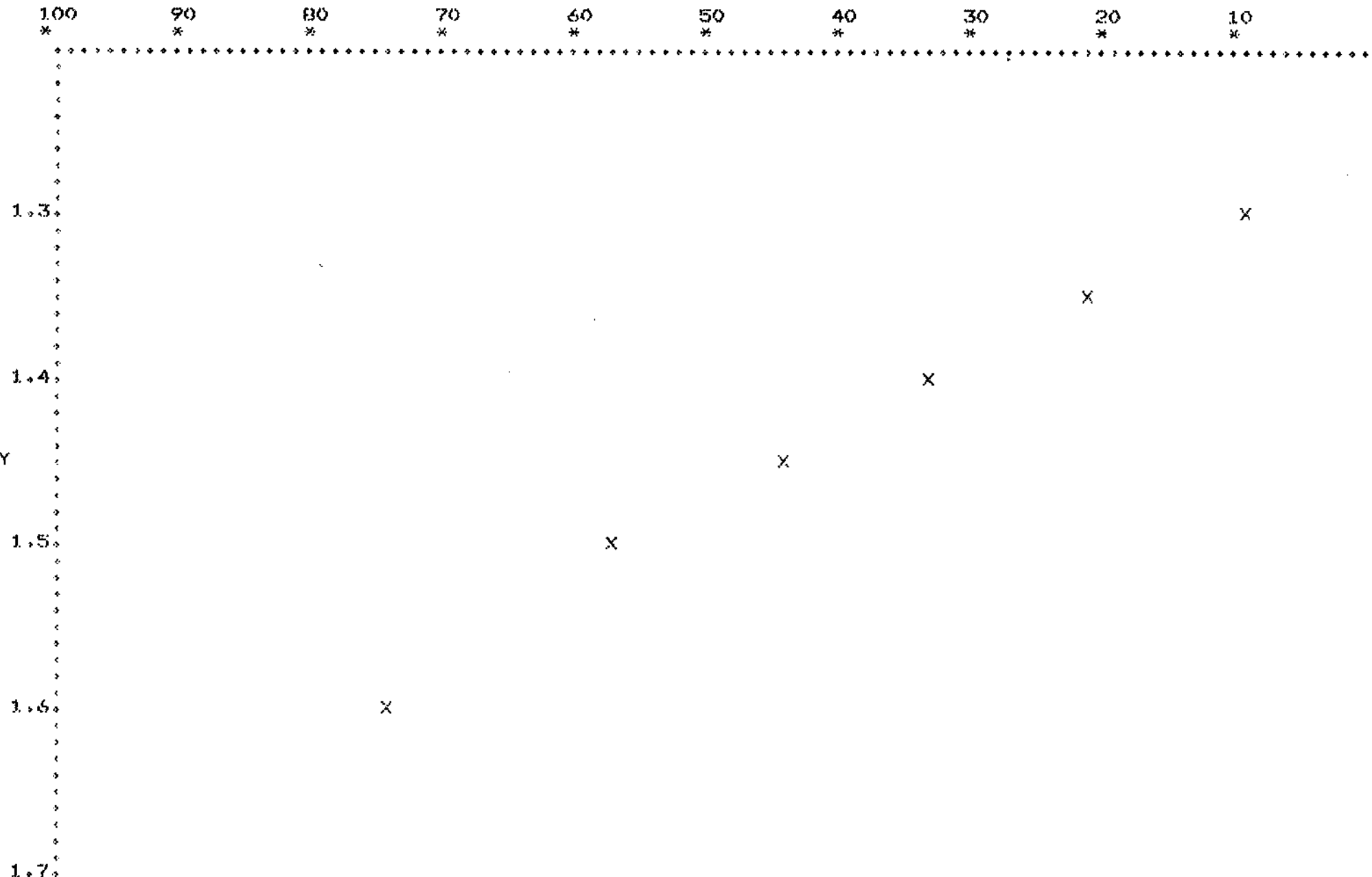
ASH PERCENT

POINTS PLOTTED

X	Y
9	33
21	33
33	7
44	9
57	12
74	15
99	25



CUMULATIVE FLOATS WEIGHT PERCENT



POINTS PLOTTED

X	Y
9	10
21	15
33	20
44	25
57	30
74	40

SPECIFIC GRAVITY

COMPO NUMBER-- 24

DRILL HOLE NUMBER-- 1911

SEAM NUMBER-- 64373-74

\*\* NO FLOTATION RUNS \*\*

HEAD SAMPLE

WEIGHT %	ASSAY	
	ASH	FST
100.0	13.1	9.0

187.6 - 188.4

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	FST
1.30	11.6	11.80	11.80	1.60	0.19	0.19	1.60	42.71	88.20	48.43	1.60	5.90	8.5
1.30-1.35	41.	4.17	15.97	8.20	0.34	0.53	3.32	42.37	84.03	50.42	8.20	13.89	8.0
1.35-1.40	61.	6.21	22.18	15.50	0.96	1.49	6.73	41.41	77.82	53.21	15.50	19.07	7.0
1.40-1.45	61.	6.21	28.38	20.40	1.27	2.76	9.72	40.14	71.62	56.05	20.40	25.28	5.5
1.45-1.50	35.	3.56	31.94	26.10	0.93	3.69	11.55	39.21	68.06	57.62	26.10	30.16	4.5
1.50-1.60	75.	7.63	39.57	33.20	2.53	6.22	15.72	36.68	60.43	60.70	33.20	35.76	3.5
1.60 STNK	594.	60.43	100.00	60.70	36.68	42.90	42.90	0.00	0.00	0.0	60.70	69.79	1.0

FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAF	RECOVERY AND ASH CALCULATIONS						
		A	R	FR	FAR	FRAI	FRI	AP
0.0	0.0	4.0	17.3	0.1556	0.0062	0.0062	.156	4.0
0.0	0.0	6.0	20.9	0.1885	0.0113	0.0113	.189	6.0
0.0	0.0	8.0	24.8	0.2234	0.0179	0.0179	.223	8.0
0.0	0.0	10.0	28.9	0.2608	0.0261	0.0261	.261	10.0
0.0	0.0	12.0	32.8	0.2954	0.0354	0.0354	.295	12.0
0.0	0.0	14.0	36.4	0.3284	0.0460	0.0460	.328	14.0
0.0	0.0	16.0	40.1	0.3613	0.0578	0.0578	.361	16.0
0.0	0.0	18.0	43.9	0.3958	0.0712	0.0712	.396	18.0
0.0	0.0	20.0	47.9	0.4311	0.0862	0.0862	.431	20.0

COMPO NUMBER- 24

DRILL HOLE NUMBER- 1911

SEAM NUMBER- 64373-74

440050

DATA

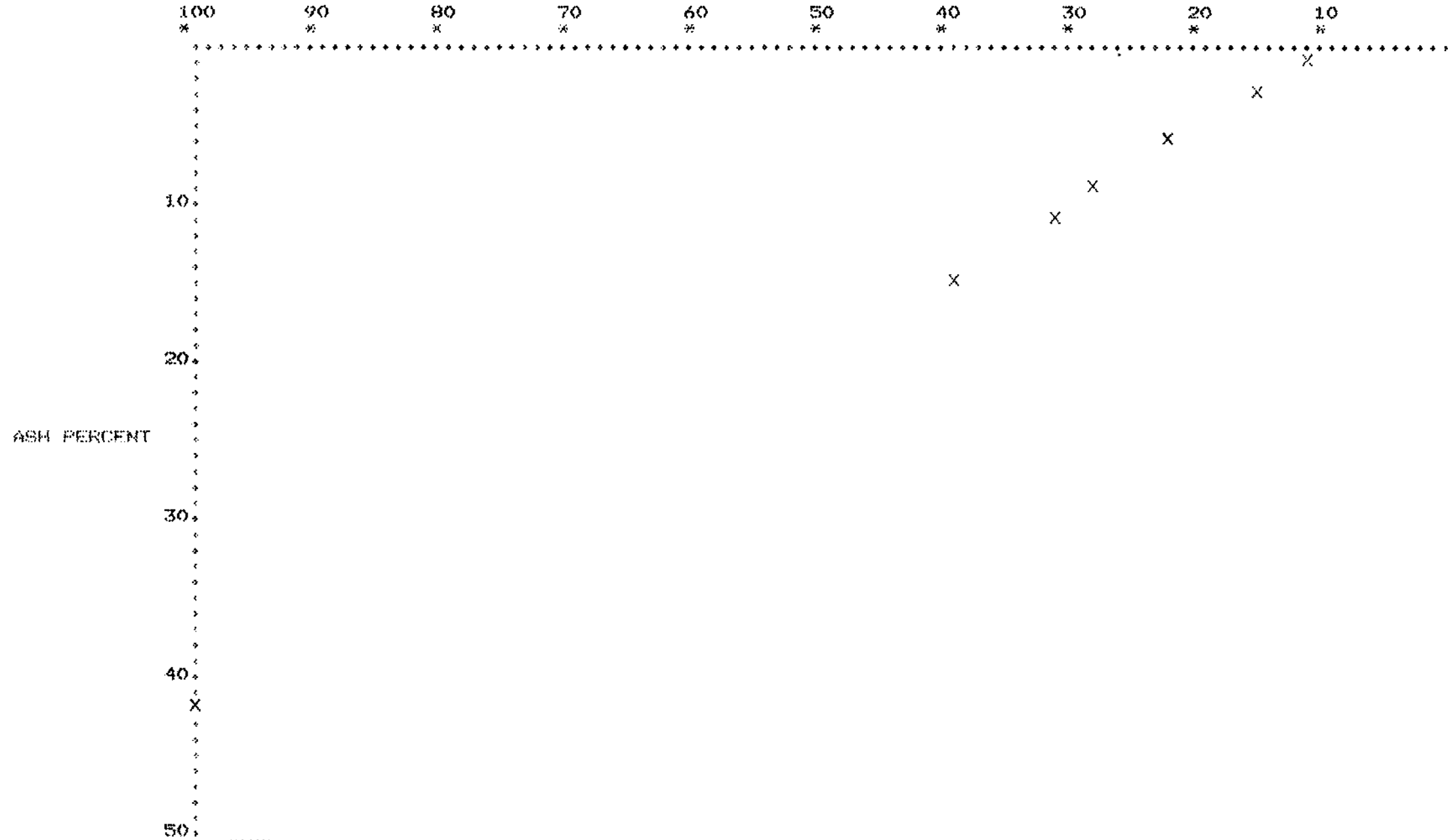
SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+20MESH	1411.	90.1	42.9
-20MESH	155.	9.9	13.1
FEED	1566.	100.0	40.0

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 20 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	0.0	0.0		0.0	0.0
PLUS 20	9.43	27.79	1.44	25.04	100.00
COMBINED	8.50	25.04		25.04	100.00
FLOTATION	0.0	0.0		0.0	0.0
PLUS 20	9.99	28.92	1.46	26.06	100.00
COMBINED	9.00	26.06		26.06	100.00
FLOTATION	0.0	0.0		0.0	0.0
PLUS 20	10.54	30.01	1.47	27.04	100.00
COMBINED	9.50	27.04		27.04	100.00
FLOTATION	0.0	0.0		0.0	0.0
PLUS 20	11.10	31.09	1.49	28.01	100.00
COMBINED	10.00	28.01		28.01	100.00

CUMULATIVE FLOATS WEIGHT PERCENT



POINTS PLOTTED

X	Y
11	1
15	3
22	6
28	9
31	11
39	15
99	42

CUMULATIVE FLOATS WEIGHT PERCENT

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



SPECIFIC GRAVITY

POINTS PLOTTED

X	Y
11	10
15	15
22	20
28	25
31	30
39	40

COMPO NUMBER- 25

DRILL HOLE NUMBER- 1911

SEAM NUMBER- 64377-82

50

FLOTATION RESULTS

KEROSENE .90 FROTHER .20

PRODUCT	WEIGHT (GMS)	WEIGHT %	ASSAY		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	272.0	82.9	13.5	4.0	66.0	86.4
TAILS	56.0	17.1	33.8	2.0	34.0	13.6
CALC. HEAD	328.	100.0	17.0		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	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FST
1.30	584.	17.93	17.93	3.30	0.59	0.59	3.30	23.86		82.07	29.07	3.30	8.97	8.0
1.30-1.35	756.	23.21	41.14	8.00	1.86	2.45	5.95	22.00		58.86	37.38	8.00	29.54	3.5
1.35-1.40	516.	15.84	56.98	12.90	2.04	4.49	7.88	19.96		43.02	46.40	12.90	49.06	2.5
1.40-1.45	192.	5.89	62.88	18.60	1.10	5.59	8.89	18.86		37.12	50.81	18.60	59.93	2.5
1.45-1.50	147.	4.51	67.39	23.80	1.07	6.66	9.89	17.79		32.61	54.55	23.80	65.14	2.0
1.50-1.60	147.	4.51	71.91	31.20	1.41	8.07	11.22	16.38		28.09	58.30	31.20	69.65	1.5
1.60 SINK	915.	28.09	100.00	58.30	16.38	24.45	24.45	0.0		0.00	0.0	58.30	85.95	1.0

FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAP	RECOVERY AND ASH CALCULATIONS		FR	FAR	FRAI	FRI	AP
		A	R					
0.1341	0.0181	4.0	24.2	0.2031	0.0081	0.0262	.337	7.8
0.1341	0.0181	6.0	41.6	0.3486	0.0209	0.0390	.483	8.1
0.1341	0.0181	8.0	57.8	0.4842	0.0387	0.0568	.618	9.2
0.1341	0.0181	10.0	67.8	0.5687	0.0569	0.0750	.703	10.7
0.1341	0.0181	12.0	74.4	0.6235	0.0748	0.0929	.758	12.3
0.1341	0.0181	14.0	80.3	0.6730	0.0942	0.1123	.807	13.9
0.1341	0.0181	16.0	85.5	0.7168	0.1147	0.1328	.851	15.6
0.1341	0.0181	18.0	90.0	0.7548	0.1359	0.1540	.889	17.3
0.1341	0.0181	20.0	93.9	0.7871	0.1574	0.1755	.921	19.1

COMPO NUMBER- 25

DRILL HOLE NUMBER- 1911

SEAM NUMBER- 64377-82

DATA

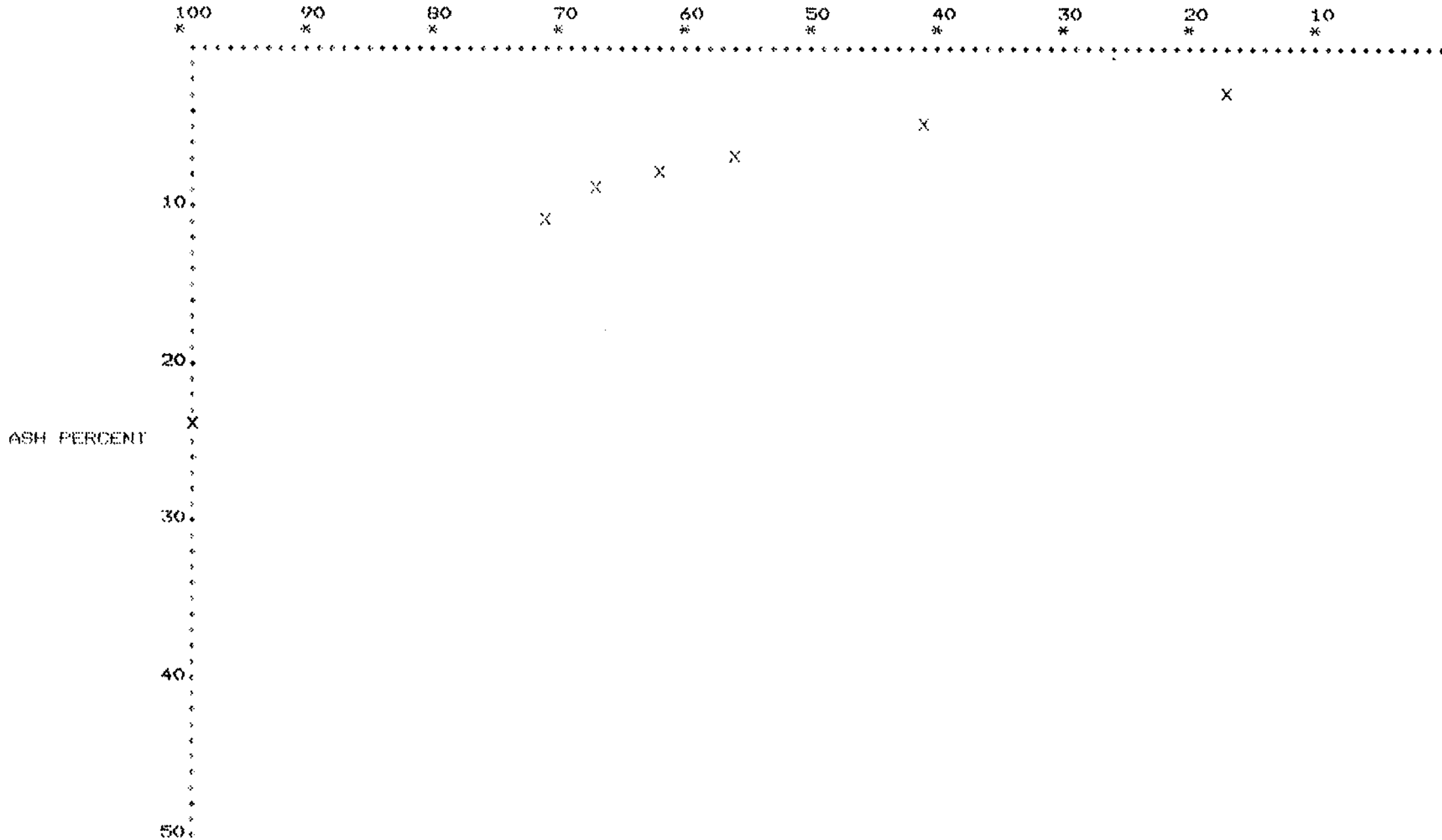
SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+20MESH	3675.	83.8	24.4
-20MESH	709.	16.2	17.0
FEED	4384.	100.0	23.2

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 20 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	13.50	82.93		13.41	22.73
PLUS 20	7.54	54.39	1.39	45.59	77.27
COMBINED	8.50	59.00		59.00	100.00
FLOTATION	13.50	82.93		13.41	21.45
PLUS 20	8.13	58.60	1.41	49.12	78.55
COMBINED	9.00	62.54		62.54	100.00
FLOTATION	13.50	82.93		13.41	20.49
PLUS 20	8.73	62.06	1.44	52.03	79.51
COMBINED	9.50	65.44		65.44	100.00
FLOTATION	13.50	82.93		13.41	19.74
PLUS 20	9.32	65.04	1.47	54.52	80.26
COMBINED	10.00	67.93		67.93	100.00

CUMULATIVE FLOATS WEIGHT PERCENT



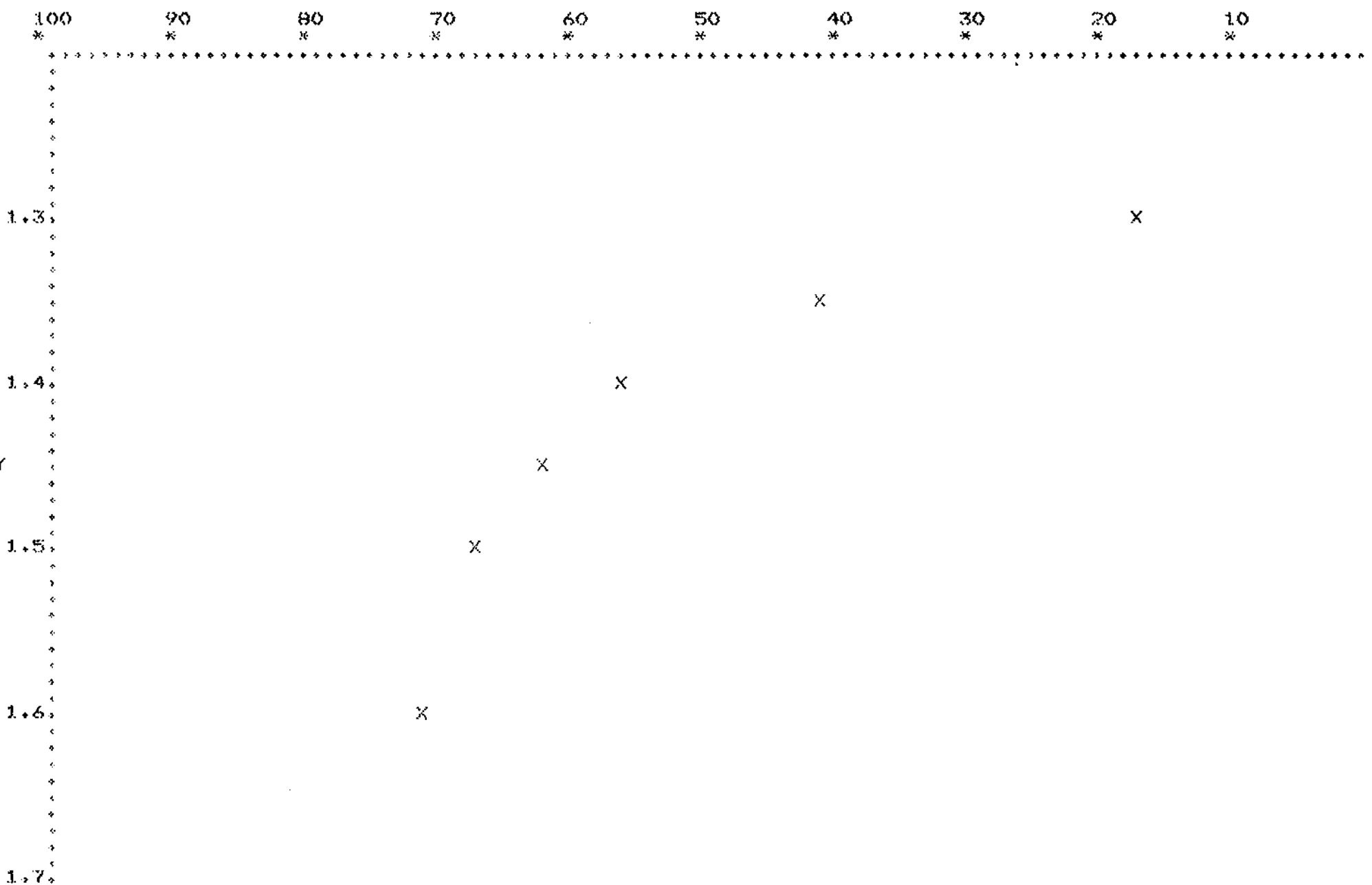
POINTS PLOTTED

X	Y
17	3
41	7
56	9
62	8
67	9
71	11
99	24

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CUMULATIVE FLOATS WEIGHT PERCENT



SPECIFIC GRAVITY

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

1.3  
1.4  
1.5  
1.6  
1.7

POINTS PLOTTED

X	Y
17	10
41	15
56	20
62	25
67	30
71	40

COMP'D NUMBER- 26

DRILL HOLE NUMBER- 1911

SEAM NUMBER- 64383-89

5 lower

FLOTATION RESULTS

PRODUCT	KEROSENE WEIGHT (GMS)	.90 WEIGHT %	FROTHER .20		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	291.0	88.4	9.6	5.5	64.9	92.0
TAILS	38.0	11.6	39.8	1.0	35.1	8.0
CALC. HEAD	329.	100.0	13.1		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 ASH WT. %	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	572.	15.55	15.55	3.60	0.56	0.56	3.60	22.28	64.45	26.39	3.60	7.78	7.5
1.30-1.35	759.	20.64	36.19	7.50	1.55	2.11	5.82	20.73	63.81	32.49	7.50	25.87	2.0
1.35-1.40	608.	16.53	52.72	11.40	1.88	3.99	7.57	18.85	47.28	39.87	11.40	44.45	1.5
1.40-1.45	310.	8.43	61.15	17.50	1.47	5.47	8.94	17.37	38.85	44.72	17.50	56.93	1.0
1.45-1.50	259.	7.04	68.19	21.30	1.50	6.97	10.22	15.87	31.81	49.90	21.30	64.67	1.0
1.50-1.60	331.	9.00	77.19	27.10	2.44	9.41	12.19	13.44	22.81	58.90	27.10	72.69	1.0
1.60 SINK	839.	22.81	100.00	58.90	13.44	22.84	22.84	0.00	0.00	0.0	58.90	88.59	0.5

FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRF/AF	RECOVERY AND ASH CALCULATIONS				FRAI	FRI	AP
		A	R	FR	FAR			
0.0751	0.0072	4.0	19.2	0.1760	0.0070	0.0143	.251	5.7
0.0751	0.0072	6.0	38.0	0.3477	0.0209	0.0281	.423	6.6
0.0751	0.0072	8.0	55.6	0.5090	0.0407	0.0479	.584	8.2
0.0751	0.0072	10.0	67.1	0.6137	0.0614	0.0686	.689	10.0
0.0751	0.0072	12.0	76.4	0.6993	0.0839	0.0911	.774	11.8
0.0751	0.0072	14.0	84.2	0.7701	0.1078	0.1150	.845	13.6
0.0751	0.0072	16.0	90.4	0.8270	0.1323	0.1395	.902	15.5
0.0751	0.0072	18.0	95.1	0.8698	0.1566	0.1638	.945	17.3
0.0751	0.0072	20.0	98.2	0.8985	0.1797	0.1869	.974	19.2



COMPO NUMBER-- 26

DRILL HOLE NUMBER-- 1911

SEAM NUMBER--

64383-B7

DATA

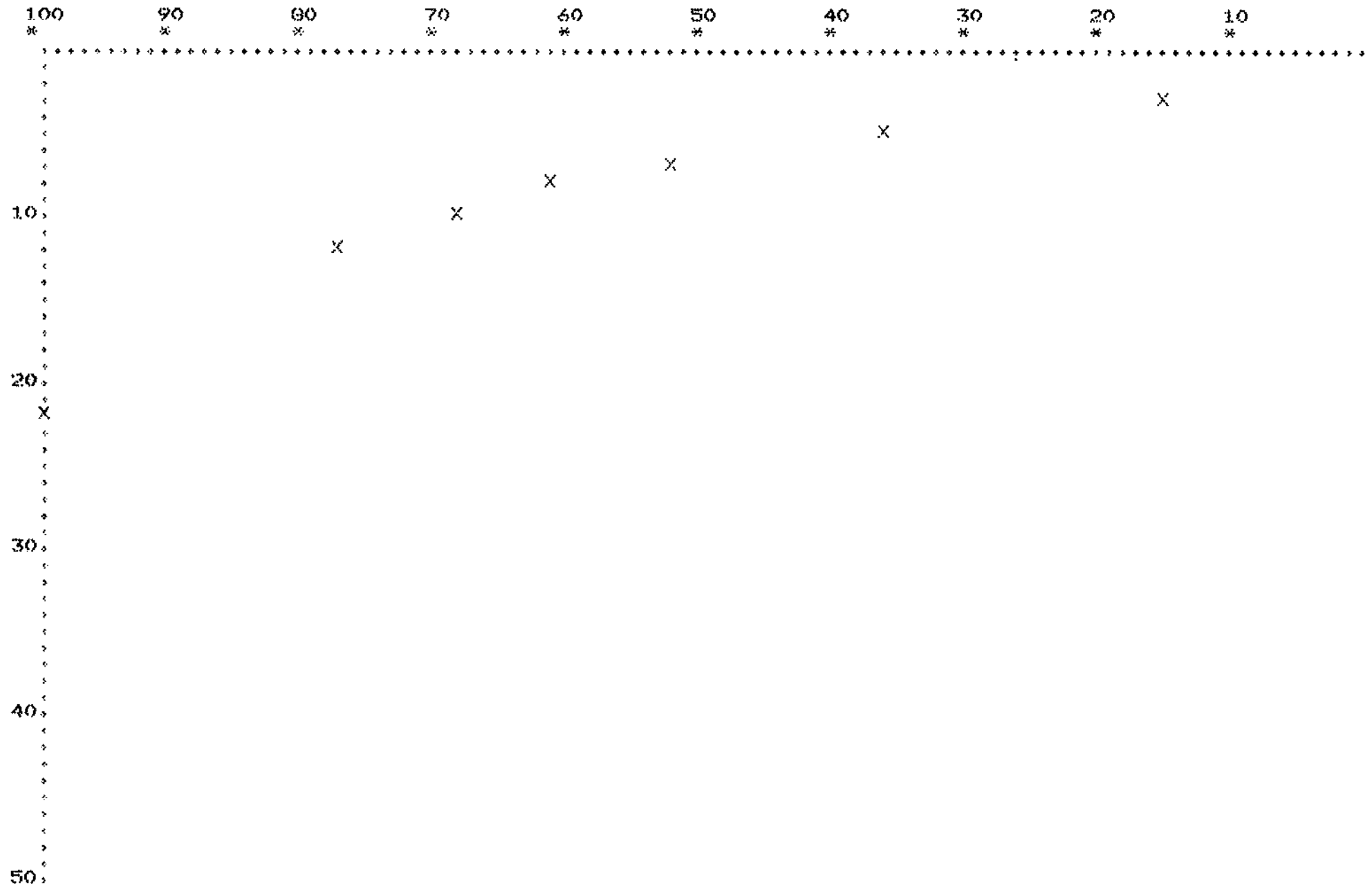
SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(X)
+28MESH	4126.	91.5	22.8
-28MESH	383.	8.5	13.1
FEED	4509.	100.0	22.0

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	9.60	88.45		7.51	12.38
PLUS 28	8.40	58.11	1.43	53.17	87.62
COMBINED	8.50	60.68		60.68	100.00
FLOTATION	9.60	88.45		7.51	11.83
PLUS 28	8.94	61.18	1.45	55.98	88.17
COMBINED	9.00	63.49		63.49	100.00
FLOTATION	9.60	88.45		7.51	11.32
PLUS 28	9.49	64.30	1.47	58.84	88.68
COMBINED	9.50	66.35		66.35	100.00
FLOTATION	9.60	88.45		7.51	10.88
PLUS 28	10.04	67.26	1.49	61.55	89.12
COMBINED	10.00	69.06		69.06	100.00

CUMULATIVE FLOATS WEIGHT PERCENT



POINTS PLOTTED

X	Y
15	3
36	3
52	7
61	8
68	10
77	12
99	22

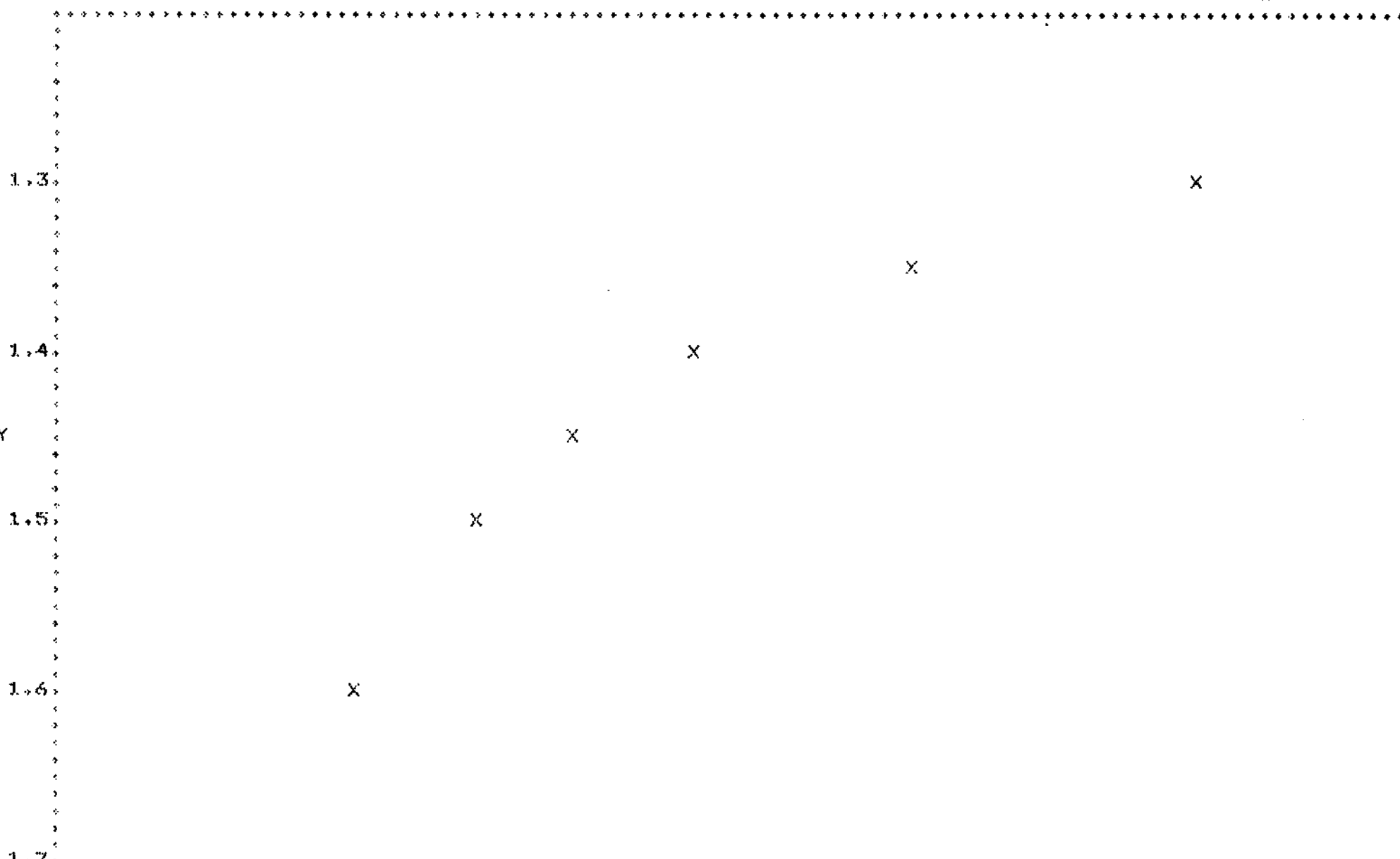
ASH PERCENT

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R.L. CRAIN INC. - 4

CUMULATIVE FLOATS WEIGHT PERCENT

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



SPECIFIC GRAVITY

POINTS PLOTTED

X	Y
15	10
36	15
52	20
61	25
68	30
77	40

CUMFO NUMBER-- 27

DRILL HOLE NUMBER- 1911

SEAM NUMBER-- 40 64391-99

FLOTATION RESULTS

PRODUCT	KEROSENE WEIGHT (GMS)	.90 WEIGHT %	FROTHER .20 ASSAY		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	279.0	87.2	6.0	5.5	60.7	89.7
TAILS	41.0	12.8	26.4	1.0	39.3	10.3
CALC. HEAD	320.	100.0	8.6		100.0	100.0

TABLE I.

WASHABILITY CURVE CALCULATIONS FOR (+28MESH) FRACTION

SO	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	1144.	28.61	28.61	2.90	0.83	0.83	2.90	10.59		71.39	14.84	2.90	14.30	7.0
1.30-1.35	1347.	33.68	62.29	6.30	2.12	2.95	4.74	8.47		37.71	22.47	6.30	45.45	1.5
1.35-1.40	724.	18.10	80.40	11.20	2.03	4.98	6.19	6.44		19.60	32.87	11.20	71.34	1.5
1.40-1.45	258.	6.45	86.85	15.70	1.01	5.99	6.90	5.43		13.15	41.29	15.70	83.62	1.0
1.45-1.50	139.	3.48	90.32	20.80	0.72	6.72	7.43	4.71		9.68	48.66	20.80	88.58	1.0
1.50-1.60	148.	3.70	94.02	28.40	1.05	7.77	8.26	3.66		5.98	61.20	28.40	92.17	1.0
1.60 SINK	239.	5.98	100.00	61.20	3.66	11.42	11.42	0.00		0.00	0.0	61.20	97.01	1.0

FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRF/AF	RECOVERY AND ASH CALCULATIONS				FRAI	FRI	AP
		A	R	FR	FAR			
0.0977	0.0059	4.0	50.2	0.4458	0.0178	0.0237	.544	4.4
0.0977	0.0059	6.0	78.4	0.6960	0.0418	0.0476	.794	6.0
0.0977	0.0059	8.0	93.1	0.8263	0.0661	0.0720	.924	7.8
0.0977	0.0059	10.0	98.9	0.8784	0.0878	0.0937	.976	9.6

COMPO NUMBER-- 27

DRILL HOLE NUMBER-- 1911

SEAM NUMBER-- 64391-99

DATA

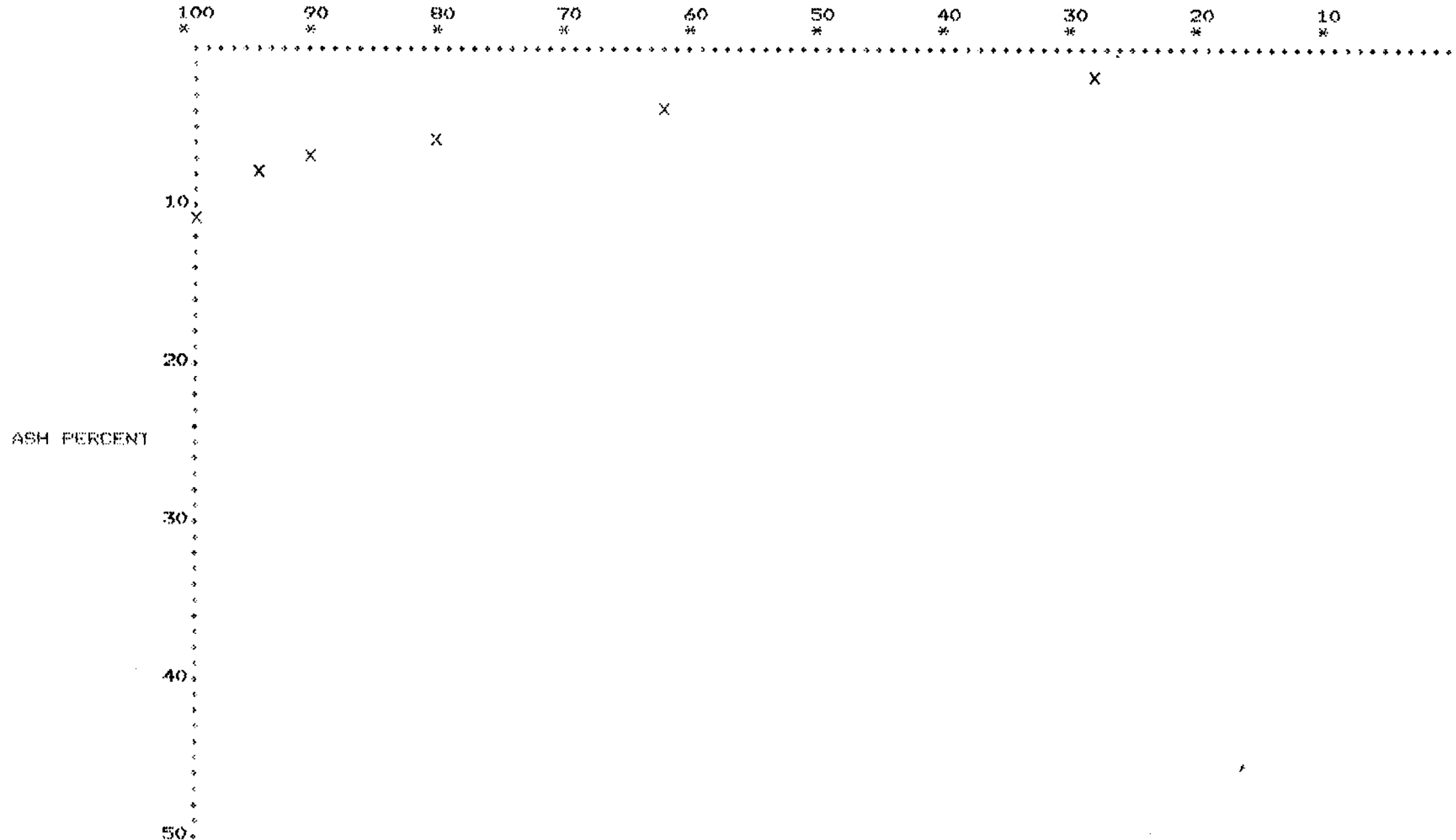
SIZE DISTRIBUTION

SIZE	WEIGHT (GMS)	WEIGHT (%)	ASH (%)
+28MESH	4429.	88.8	11.4
--28MESH	559.	11.2	8.6
FEED	4988.	100.0	11.1

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	6.00	87.19		9.77	10.28
PLUS 28	8.82	96.02	+1.60	85.26	89.72
COMBINED	8.50	95.03		95.03	100.00
FLOTATION	6.00	87.19		9.77	10.13
PLUS 28	9.38	97.63	+1.60	86.69	89.87
COMBINED	9.00	96.46		96.46	100.00
FLOTATION	6.00	87.19		9.77	10.02
PLUS 28	9.94	98.83	+1.60	87.75	89.98
COMBINED	9.50	97.52		97.52	100.00
FLOTATION	6.00	87.19		9.77	9.95
PLUS 28	10.50	99.61	+1.60	88.45	90.05
COMBINED	10.00	98.22		98.22	100.00

CUMULATIVE FLOATS WEIGHT PERCENT

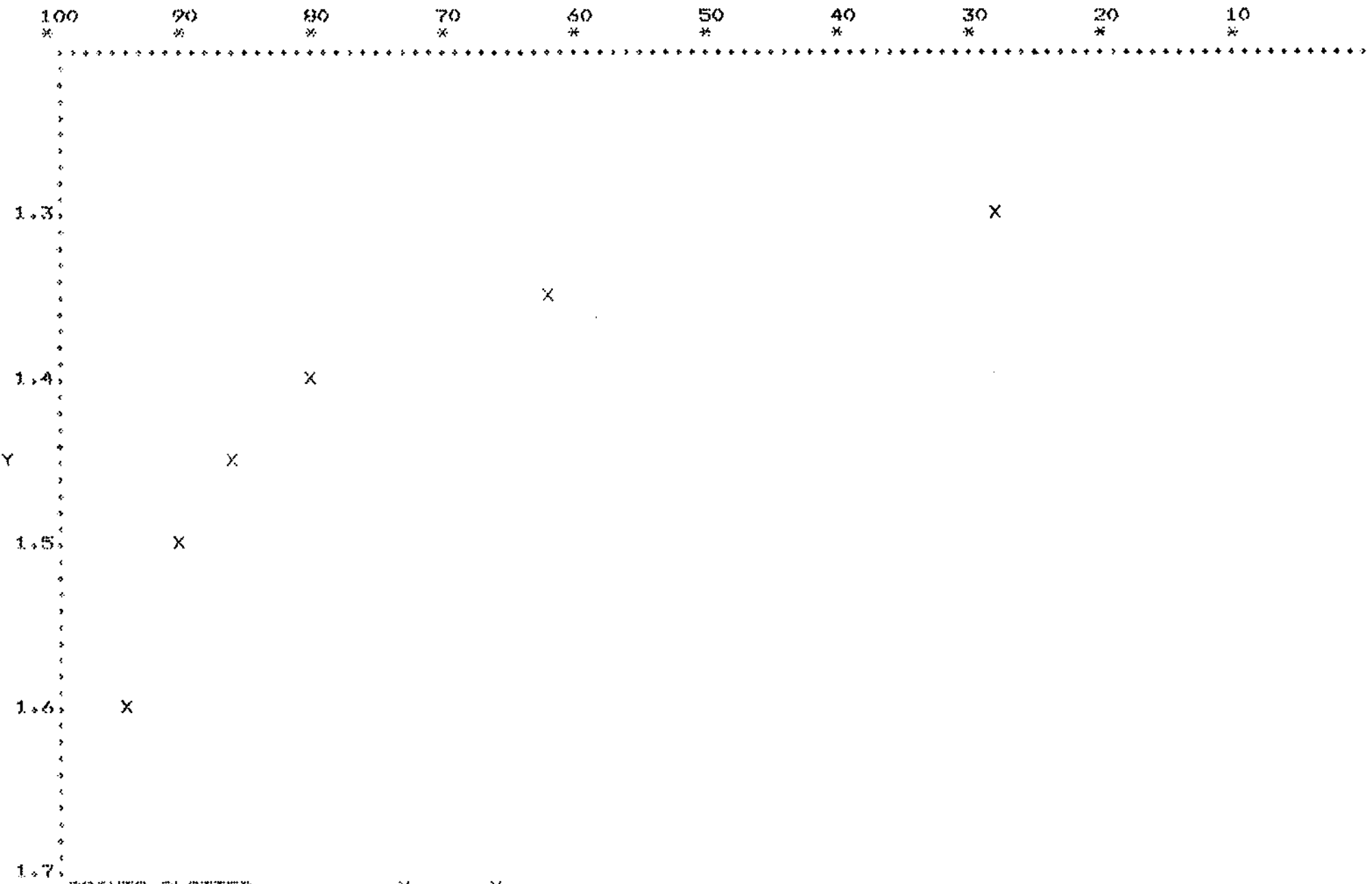


POINTS PLOTTED

X	Y
28	2
62	4
80	6
86	6
90	7
94	8
99	11



CUMULATIVE FLOATS WEIGHT PERCENT



SPECIFIC GRAVITY

POINTS PLOTTED

X	Y
28	10
62	15
80	20
86	25
90	30
94	40

COMPO NUMBER- 28

DRILL HOLE NUMBER- 1911

SEAM NUMBER- 64402-10

*A1 over*

FLOTATION RESULTS

PRODUCT	KEROSENE WEIGHT (GMS)	.90 WEIGHT %	FROTHER .20 ASSAY		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	272.0	83.4	8.4	7.0	56.0	87.4
TAILS	54.0	16.6	33.3	2.5	44.0	12.6
CALC. HEAD	326.	100.0	12.5		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 ASH WT. %	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	830.	21.28	21.28	2.80	0.60	0.60	2.80	22.18	78.72	28.18	2.80	10.64	8.0
1.30-1.35	714.	18.35	39.63	6.70	1.23	1.83	4.61	20.95	60.37	34.71	6.70	30.45	3.0
1.35-1.40	629.	16.12	55.75	10.30	1.66	3.49	6.25	19.29	44.25	43.61	10.30	47.69	2.0
1.40-1.45	369.	9.46	65.21	15.10	1.43	4.91	7.54	17.87	34.79	51.36	15.10	60.48	1.5
1.45-1.50	170.	4.36	69.57	19.40	0.85	5.76	8.28	17.02	30.43	55.94	19.40	67.39	1.5
1.50-1.60	136.	3.49	73.06	25.30	0.88	6.64	9.09	16.14	26.94	59.90	25.30	71.32	1.5
1.60 STNK	1051.	26.94	100.00	59.90	16.14	22.78	22.78	0.0	0.00	0.0	59.90	86.53	1.0

FDR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAP	RECOVERY		AND ASH CALCULATIONS		FRAI	FRI	AP
		A	R	FR	FAR			
0.0902	0.0076	4.0	33.5	0.2992	0.0120	0.0195	.389	5.0
0.0902	0.0076	6.0	53.4	0.4767	0.0286	0.0362	.567	6.4
0.0902	0.0076	8.0	68.1	0.6073	0.0486	0.0562	.698	8.1
0.0902	0.0076	10.0	76.7	0.6841	0.0684	0.0760	.774	9.8
0.0902	0.0076	12.0	83.8	0.7475	0.0897	0.0973	.838	11.6
0.0902	0.0076	14.0	89.6	0.7994	0.1119	0.1195	.890	13.4
0.0902	0.0076	16.0	94.2	0.8398	0.1344	0.1419	.930	15.3
0.0902	0.0076	18.0	97.4	0.8688	0.1564	0.1640	.959	17.1
0.0902	0.0076	20.0	99.4	0.8864	0.1773	0.1849	.977	18.9

COMPO NUMBER- 28

DRILL HOLE NUMBER- 1911

SEAM NUMBER- 64402-10

490037

DATA

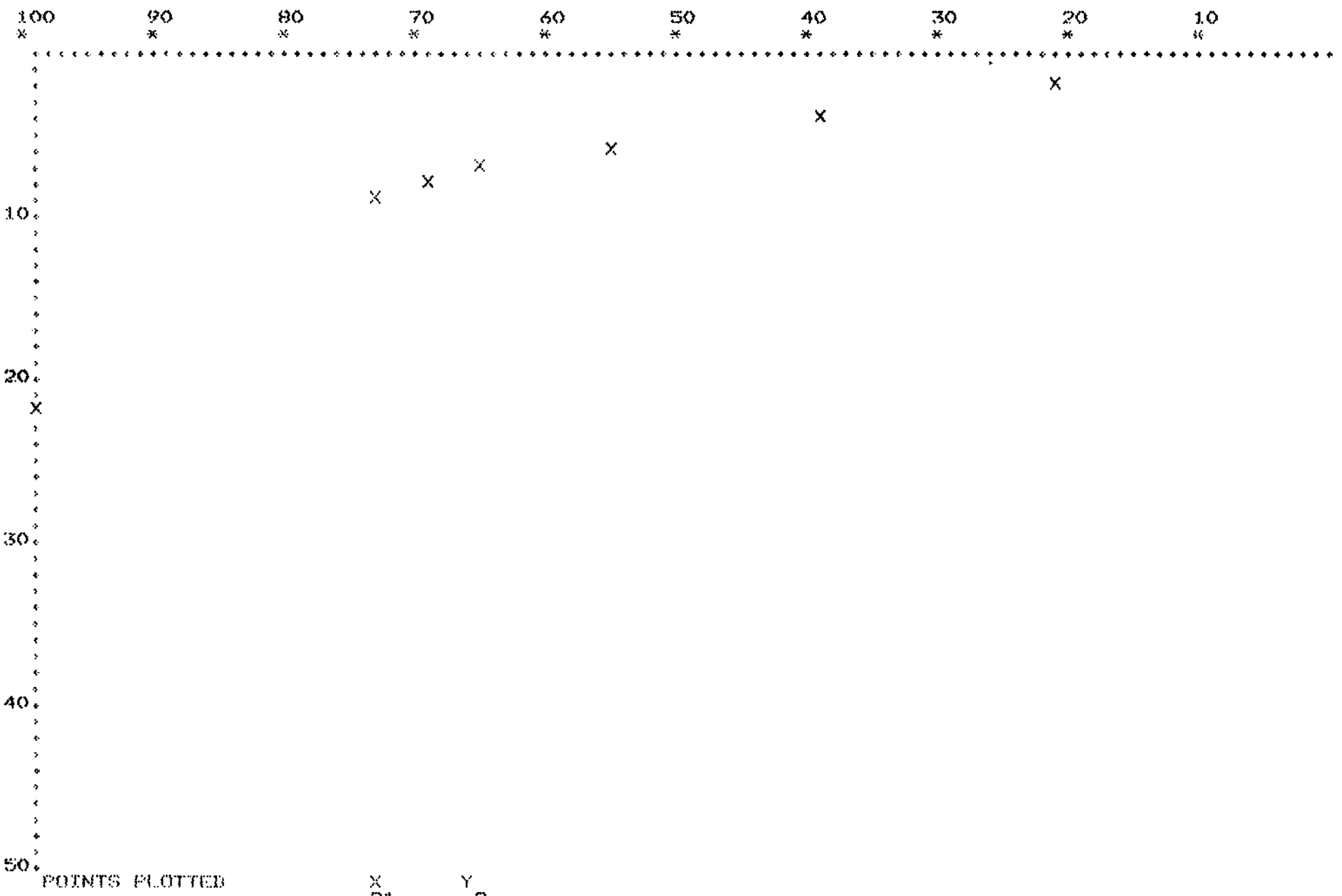
SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MESH	3935.	89.2	22.8
-28MESH	477.	10.8	12.5
FEED	4412.	100.0	21.7

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 G.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	8.40	83.44		9.02	12.52
PLUS 28	8.51	70.68	1.53	63.04	87.48
COMBINED	8.50	72.06		72.06	100.00
FLOTATION	8.40	83.44		9.02	12.17
PLUS 28	9.07	73.02	1.60	65.12	87.83
COMBINED	9.00	74.14		74.14	100.00
FLOTATION	8.40	83.44		9.02	11.85
PLUS 28	9.63	75.27	+1.60	67.13	88.15
COMBINED	9.50	76.15		76.15	100.00
FLOTATION	8.40	83.44		9.02	11.55
PLUS 28	10.19	77.45	+1.60	69.08	88.45
COMBINED	10.00	78.10		78.10	100.00

CUMULATIVE FLOATS WEIGHT PERCENT



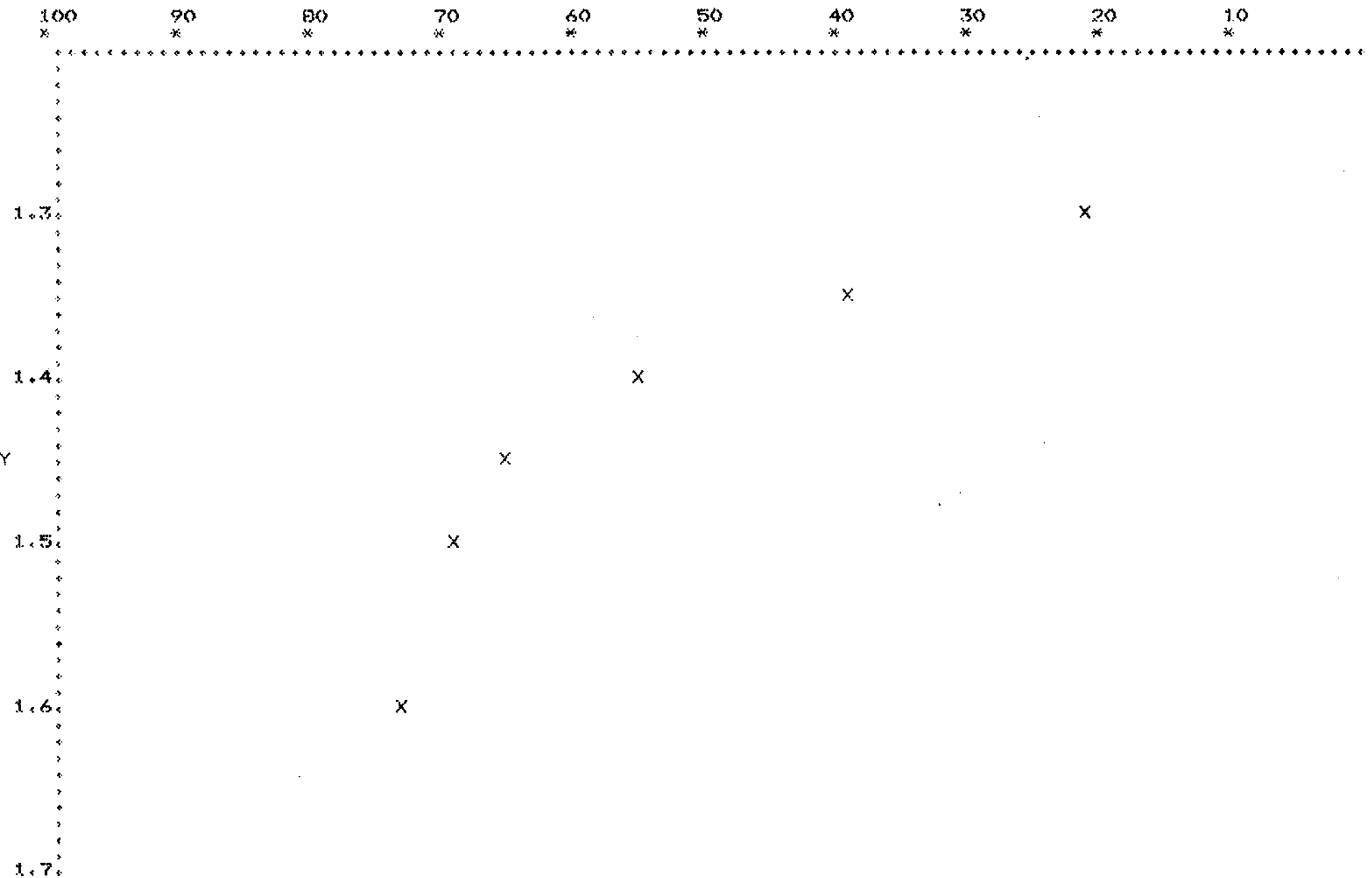
POINTS PLOTTED

X	Y
100	21
90	39
80	55
73	69
69	73
65	85
55	99

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R. L. CRAM INC. - 4

CUMULATIVE FLOATS WEIGHT PERCENT



SPECIFIC GRAVITY

POINTS PLOTTED

X	Y
21	10
39	15
55	20
65	25
69	30
73	40

COMPO NUMBER-- 46

DRILL HOLE NUMBER-- 1906

SEAM NUMBER-- 70 64870-72

\*\* NO FLOTATION RUNS \*\*

HEAD SAMPLE

WEIGHT %	ASSAY ASH	FSI
100.0	0.0	0.0



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	FLYS. YIELD	FSI
1.30	53.	7.90	7.90	4.20	0.33	0.33	4.20	12.53	92.10	13.61	4.20	3.95	5.5
1.30-1.35	219.	32.64	40.54	6.20	2.02	2.36	5.81	10.51	59.46	17.67	6.20	24.22	1.0
1.35-1.40	222.	33.08	73.62	9.40	3.11	5.47	7.42	7.40	26.38	28.05	9.40	57.08	1.0
1.40-1.45	82.	12.22	85.84	14.40	1.76	7.23	8.42	5.64	14.16	39.83	14.40	79.73	0.5
1.45-1.50	37.	5.51	91.36	19.50	1.08	8.30	9.09	4.56	8.64	52.80	19.50	88.60	0.5
1.50-1.60	18.	2.68	94.04	27.70	0.74	9.04	9.62	3.82	5.96	64.10	27.70	92.70	0.5
1.60 SINK	40.	5.96	100.00	64.10	3.82	12.86	12.86	0.00	0.00	0.0	64.10	97.02	0.0

FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAF	RECOVERY AND ASH CALCULATIONS		FR	FAR	FRAI	FRI	AF
		A	R					
0.0	0.0	4.0	3.9	0.0279	0.0011	0.0011	.028	4.0
0.0	0.0	6.0	44.8	0.3225	0.0193	0.0193	.322	6.0
0.0	0.0	8.0	81.4	0.5855	0.0468	0.0468	.586	8.0
0.0	0.0	10.0	95.7	0.6879	0.0688	0.0688	.688	10.0
0.0	0.0	12.0	****	0.7202	0.0864	0.0864	.720	12.0

COMPO NUMBER- 46

DRILL HOLE NUMBER- 1906

SEAM NUMBER- 64870-72

DATA

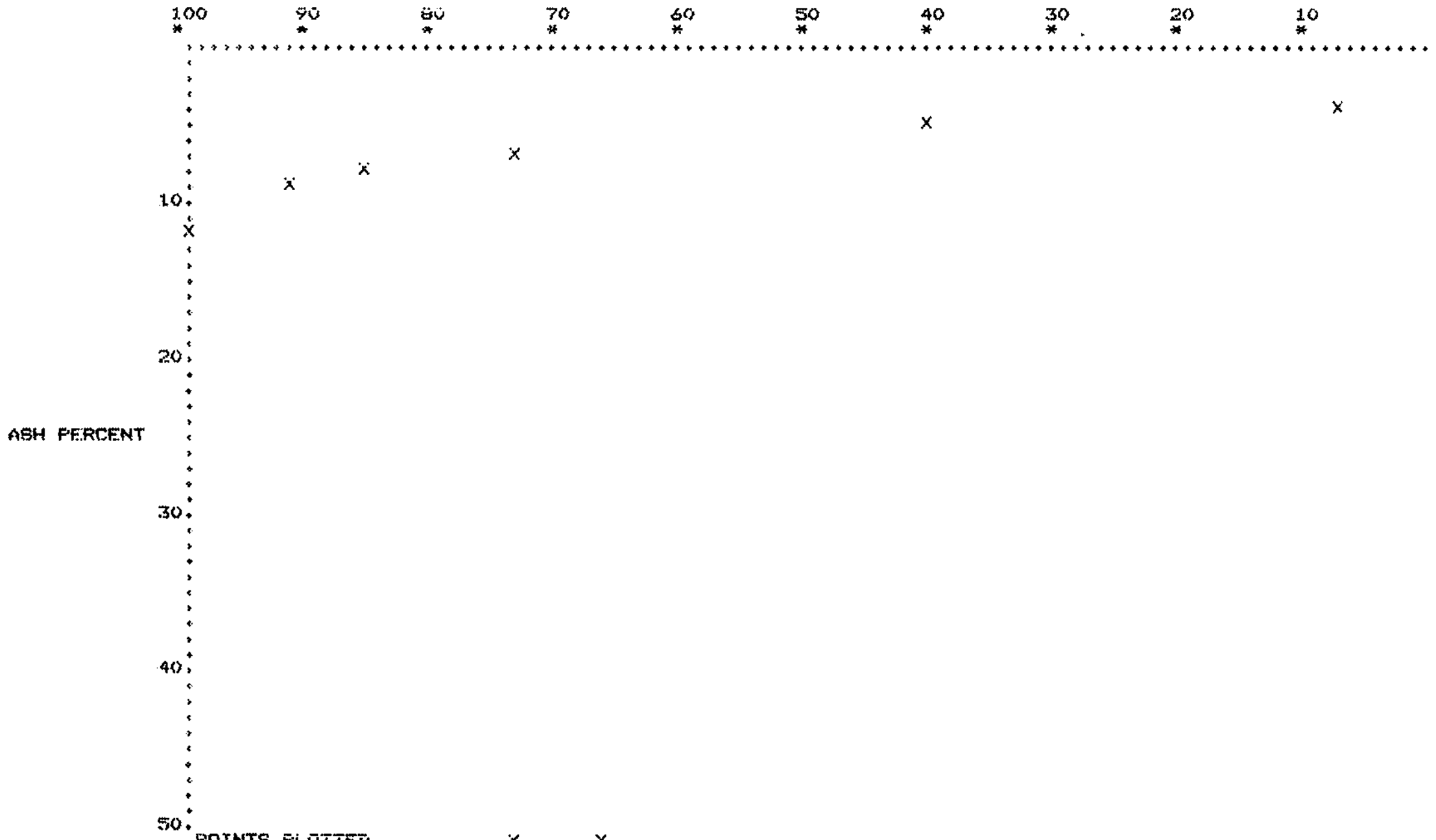
SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(X)
+28MESH	714.	71.9	12.9
-28MESH	279.	28.1	0.0
FEED	993.	100.0	9.3

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	11.82	100.04	+1.60	71.93	100.00
COMBINED	8.50	71.93		71.93	100.00
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	12.52	100.01	+1.60	71.91	100.00
COMBINED	9.00	71.91		71.91	100.00
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	12.86	100.00	+1.60	71.90	100.00
COMBINED	9.25	71.90		71.90	100.00
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	12.86	100.00	+1.60	71.90	100.00
COMBINED	9.25	71.90		71.90	100.00

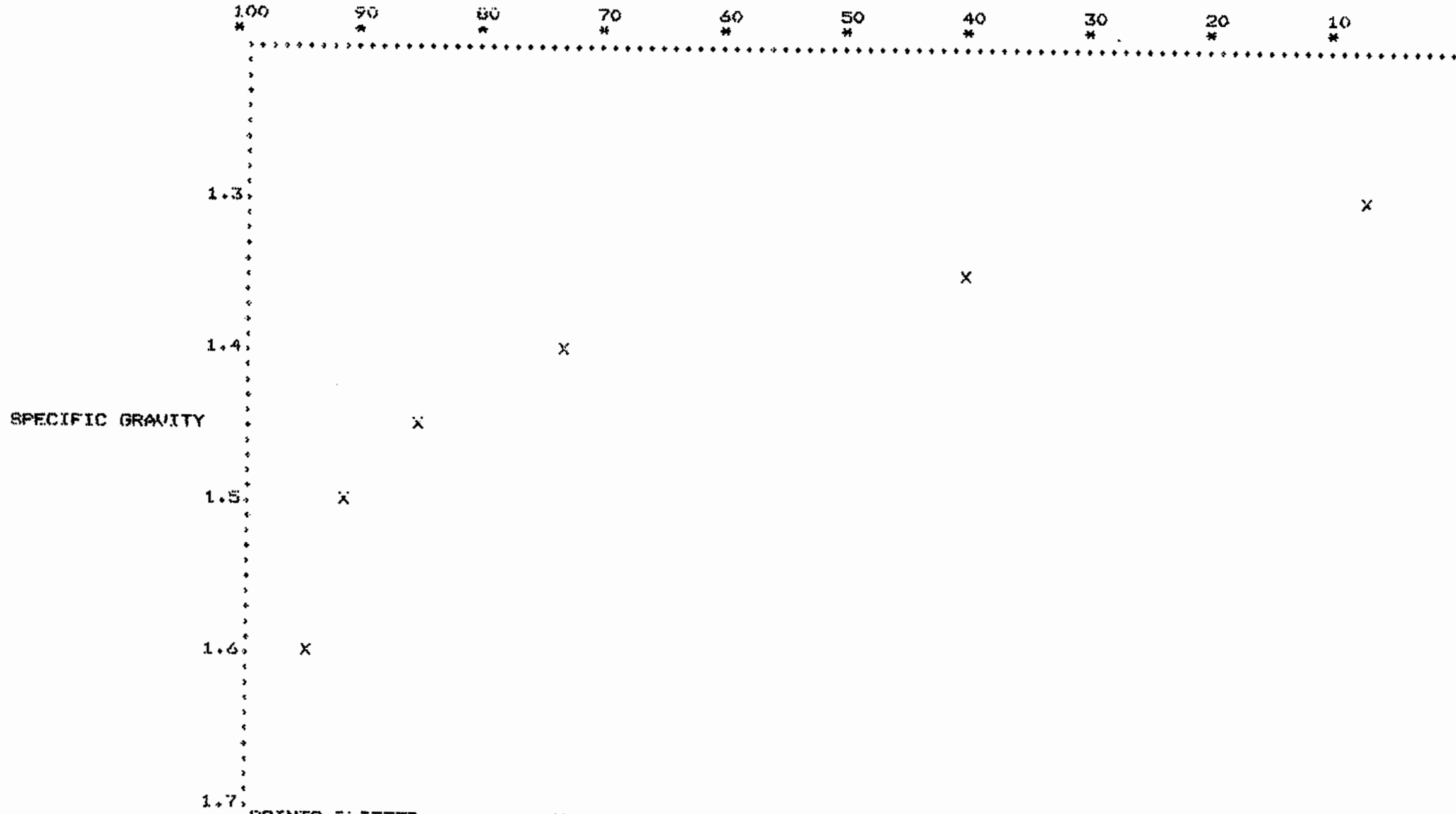
CUMULATIVE FLOATS WEIGHT PERCENT



POINTS PLOTTED

X	Y
7	4
40	4
73	4
85	4
91	9
94	9
99	12

CUMULATIVE FLOATS WEIGHT PERCENT



POINTS PLOTTED

X	Y
7	10
40	15
73	20
85	25
91	30
94	40

COMPO NUMBER-- 47

DRILL HOLE NUMBER- 1906

SEAM NUMBER-- 7 64873-79

\*\* NO FLOTATION RUNS \*\*

HEAD SAMPLE

WEIGHT X	ASSAY	
	ASH	FSI
100.0	0.0	0.0

TABLE 1

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

SB	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	82.	6.77	6.77	2.80	0.19	0.19	2.80	28.26	93.23	30.31	2.80	3.39	8.0
1.30-1.35	279.	23.04	29.81	6.00	1.38	1.57	5.27	26.87	70.19	38.29	6.00	18.29	2.5
1.35-1.40	234.	19.32	49.13	9.80	1.89	3.47	7.05	24.98	50.87	49.11	9.80	39.47	1.0
1.40-1.45	92.	7.60	56.73	16.30	1.24	4.70	8.29	23.74	43.27	54.87	16.30	52.93	1.5
1.45-1.50	56.	4.62	61.35	20.80	0.96	5.67	9.23	22.78	38.65	58.95	20.80	59.04	1.5
1.50-1.60	49.	4.05	65.40	26.00	1.05	6.72	10.27	21.73	34.60	62.80	26.00	63.38	1.5
1.60 SINK	419.	34.60	100.00	62.80	21.73	28.45	28.45	0.00	0.00	0.0	62.80	82.70	0.5

FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAP	RECOVERY AND ASH CALCULATIONS				FRAI	FRI	AP
		A	R	FR	FAR			
0.0	0.0	4.0	17.4	0.1625	0.0065	0.0065	.162	4.0
0.0	0.0	6.0	38.2	0.3564	0.0214	0.0214	.356	6.0
0.0	0.0	8.0	55.2	0.5159	0.0413	0.0413	.516	8.0
0.0	0.0	10.0	64.4	0.6017	0.0602	0.0602	.602	10.0
0.0	0.0	12.0	71.6	0.6691	0.0803	0.0803	.669	12.0
0.0	0.0	14.0	78.1	0.7294	0.1021	0.1021	.729	14.0
0.0	0.0	16.0	83.7	0.7818	0.1251	0.1251	.782	16.0
0.0	0.0	18.0	88.5	0.8266	0.1488	0.1488	.827	18.0
0.0	0.0	20.0	92.5	0.8635	0.1727	0.1727	.864	20.0



COMPO NUMBER-- 47

DRILL HOLE NUMBER-- 1906

SEAM NUMBER-- 64873-79

## DATA

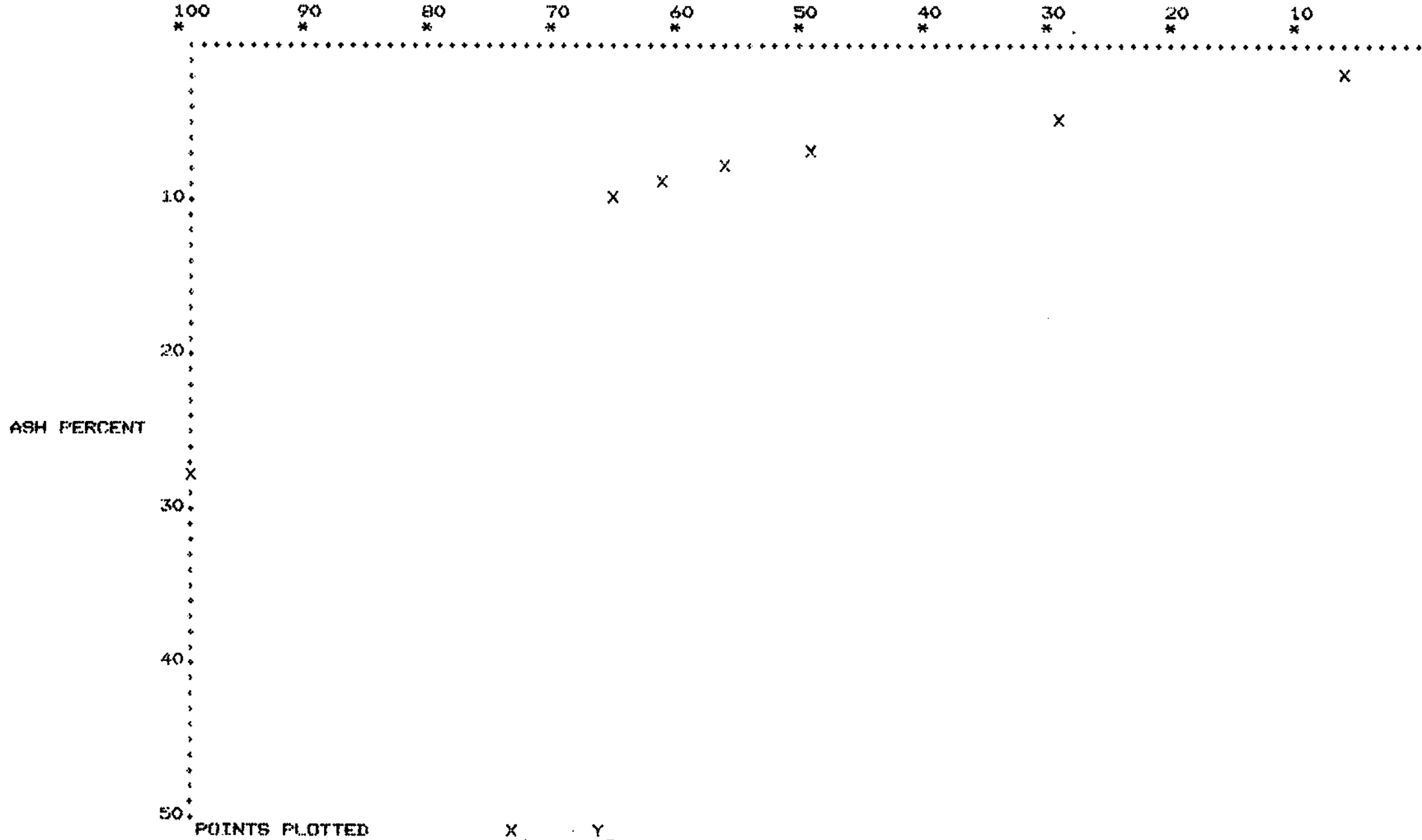
## SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MESH	1597.	93.4	28.4
-28MESH	113.	6.6	0.0
FEED	1710.	100.0	26.6

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	9.10	60.79	1.49	56.77	100.00
COMBINED	8.50	56.77		56.77	100.00
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	9.64	63.02	1.54	58.86	100.00
COMBINED	9.00	58.86		58.86	100.00
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	10.17	65.06	1.59	60.76	100.00
COMBINED	9.50	60.76		60.76	100.00
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	10.71	67.03	+1.60	62.60	100.00
COMBINED	10.00	62.60		62.60	100.00

CUMULATIVE FLOATS WEIGHT PERCENT



X  
6  
29  
49  
56  
61  
65  
99

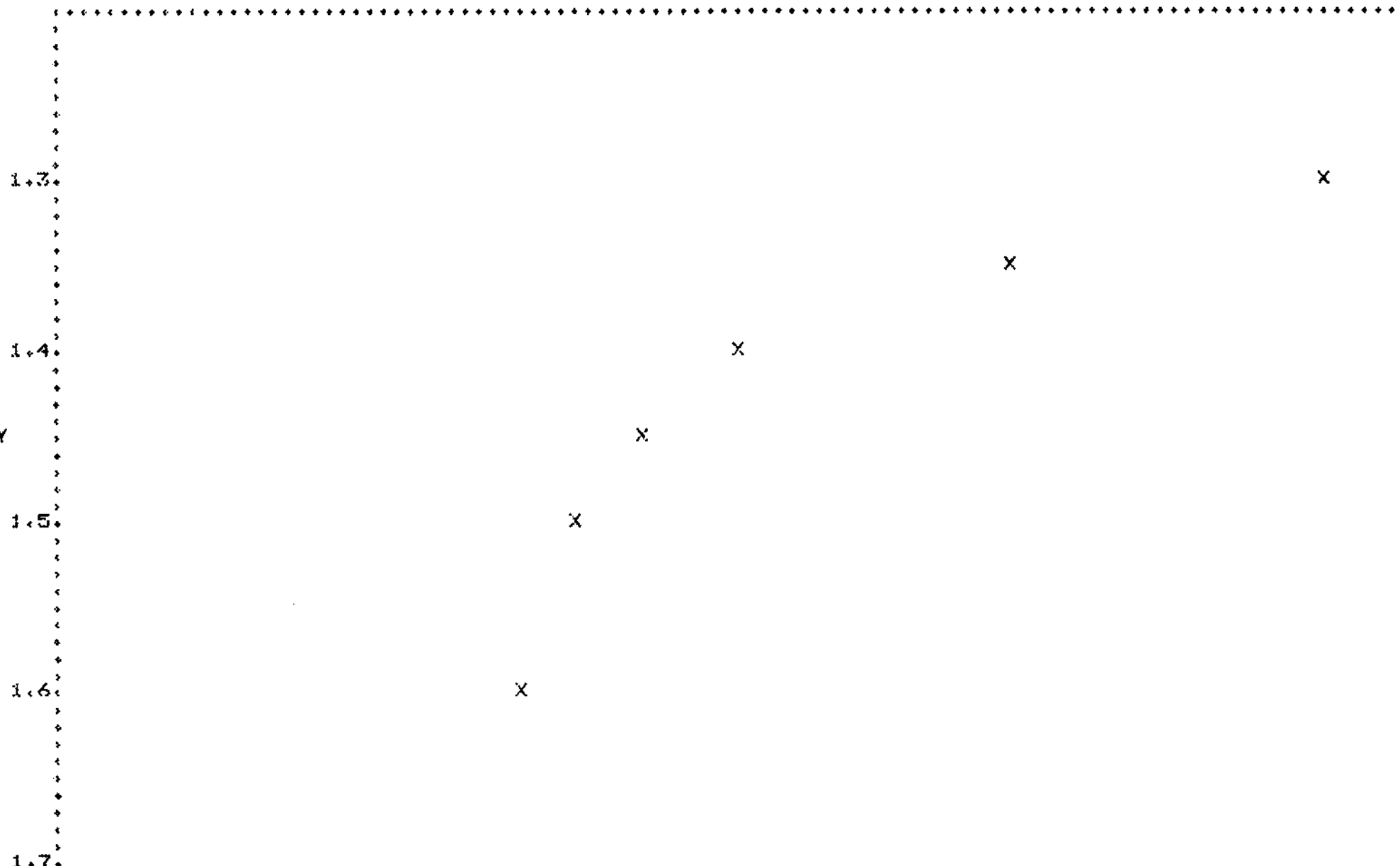
Y  
10  
28

POINTS PLOTTED

ASH PERCENT

CUMULATIVE FLOATS WEIGHT PERCENT

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



SPECIFIC GRAVITY

POINTS PLOTTED

X	Y
6	10
29	15
49	20
56	30
61	35
65	40

COMPO NUMBER-- 48

DRILL HOLE NUMBER-- 1906

SEAM NUMBER-- 64880-82

*5 upper*

FLOTATION RESULTS

PRODUCT	KEROSENE WEIGHT (GMS)	.90 WEIGHT %	FROTHER .20		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	290.0	85.4	7.8	7.5	52.4	90.2
TAILS	48.0	14.6	41.3	2.0	47.6	9.8
CALC. HEAD	328.	100.0	12.7		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 ASH WT. %	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	159.	8.91	8.91	2.70	0.24	0.24	2.70	26.01	91.09	28.55	2.70	4.45	8.0
1.30-1.35	412.	23.08	31.99	6.70	1.55	1.79	5.59	24.46	68.01	35.97	6.70	20.45	3.5
1.35-1.40	462.	25.88	57.87	10.00	2.59	4.38	7.56	21.88	42.13	51.93	10.00	44.93	1.5
1.40-1.45	124.	6.95	64.82	15.80	1.10	5.47	8.44	20.78	35.18	59.06	15.80	61.34	1.5
1.45-1.50	111.	6.22	71.04	21.30	1.32	6.80	9.57	19.45	28.96	67.17	21.30	67.93	2.0
1.50-1.60	66.	3.70	74.73	27.30	1.01	7.81	10.45	18.44	25.27	73.00	27.30	72.89	2.0
1.60 SINK	451.	25.27	100.00	73.00	18.44	26.25	26.25	0.0	0.00	0.0	73.00	87.37	1.0

## FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAF	RECOVERY A	AND ASH R	CALCULATIONS		FRAI	FRI	AP
				FR	FAR			
0.1143	0.0089	4.0	17.1	0.1484	0.0059	0.0148	.263	5.7
0.1143	0.0089	6.0	37.7	0.3263	0.0196	0.0285	.441	6.5
0.1143	0.0089	8.0	61.7	0.5340	0.0427	0.0516	.648	8.0
0.1143	0.0089	10.0	73.0	0.6318	0.0632	0.0721	.746	9.7
0.1143	0.0089	12.0	80.7	0.6989	0.0839	0.0928	.813	11.4
0.1143	0.0089	14.0	87.2	0.7557	0.1058	0.1147	.870	13.2
0.1143	0.0089	16.0	92.5	0.8015	0.1282	0.1372	.916	15.0
0.1143	0.0089	18.0	96.6	0.8366	0.1506	0.1595	.951	16.8
0.1143	0.0089	20.0	99.4	0.8607	0.1721	0.1811	.975	18.6

COMPO NUMBER-- 48

DRILL HOLE NUMBER-- 1906

SEAM NUMBER-- 64880-82

DATA

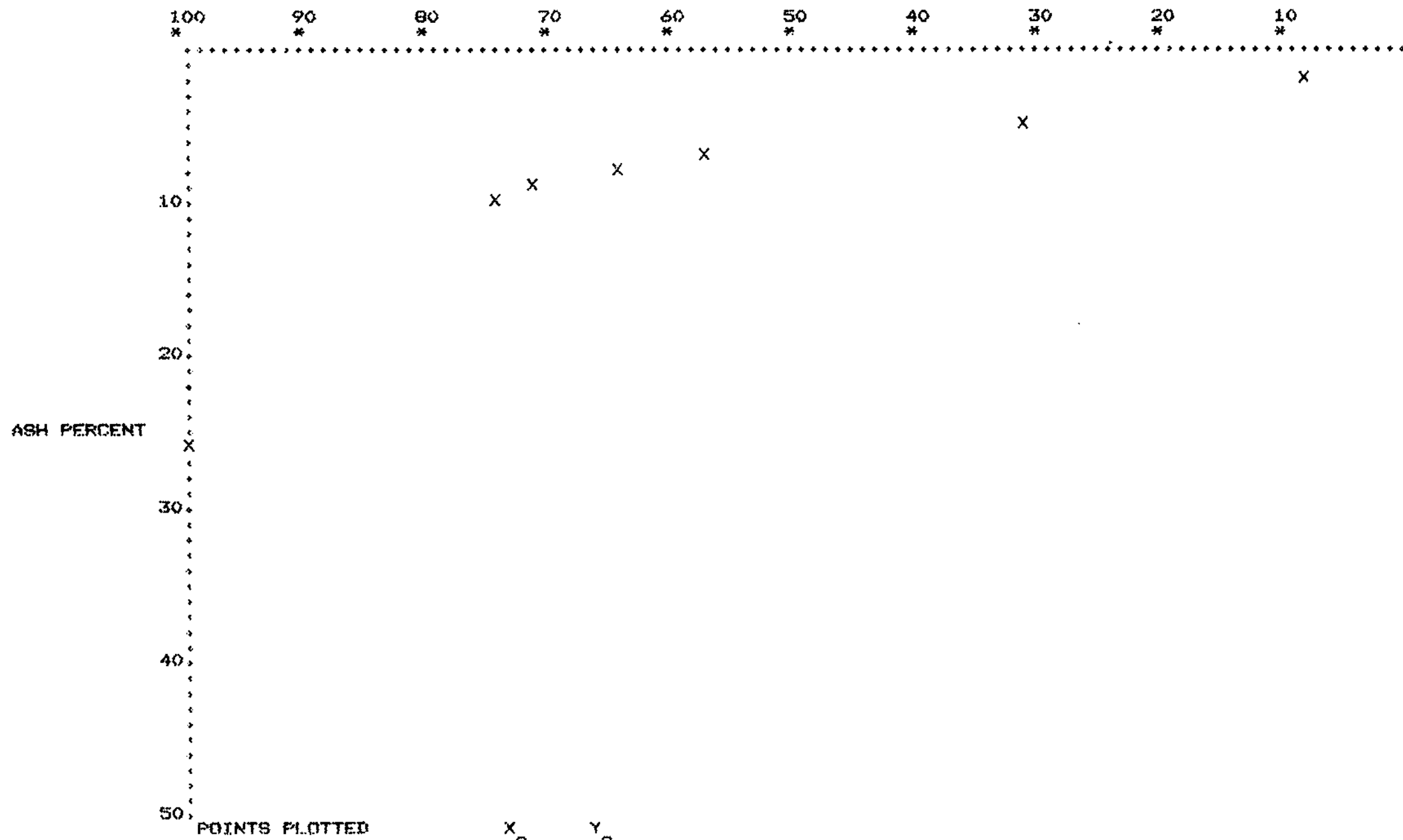
SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MESH	2161.	86.6	26.3
-28MESH	334.	13.4	12.7
FEED	2495.	100.0	24.4

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	7.80	85.37		11.43	16.68
PLUS 28	8.61	65.92	1.46	57.09	83.32
COMBINED	8.50	68.52		68.52	100.00
FLOTATION	7.80	85.37		11.43	16.01
PLUS 28	9.19	69.22	1.48	59.95	83.99
COMBINED	9.00	71.38		71.38	100.00
FLOTATION	7.80	85.37		11.43	15.50
PLUS 28	9.76	71.93	1.52	62.30	84.50
COMBINED	9.50	73.73		73.73	100.00
FLOTATION	7.80	85.37		11.43	15.07
PLUS 28	10.34	74.34	1.59	64.39	84.93
COMBINED	10.00	75.81		75.81	100.00

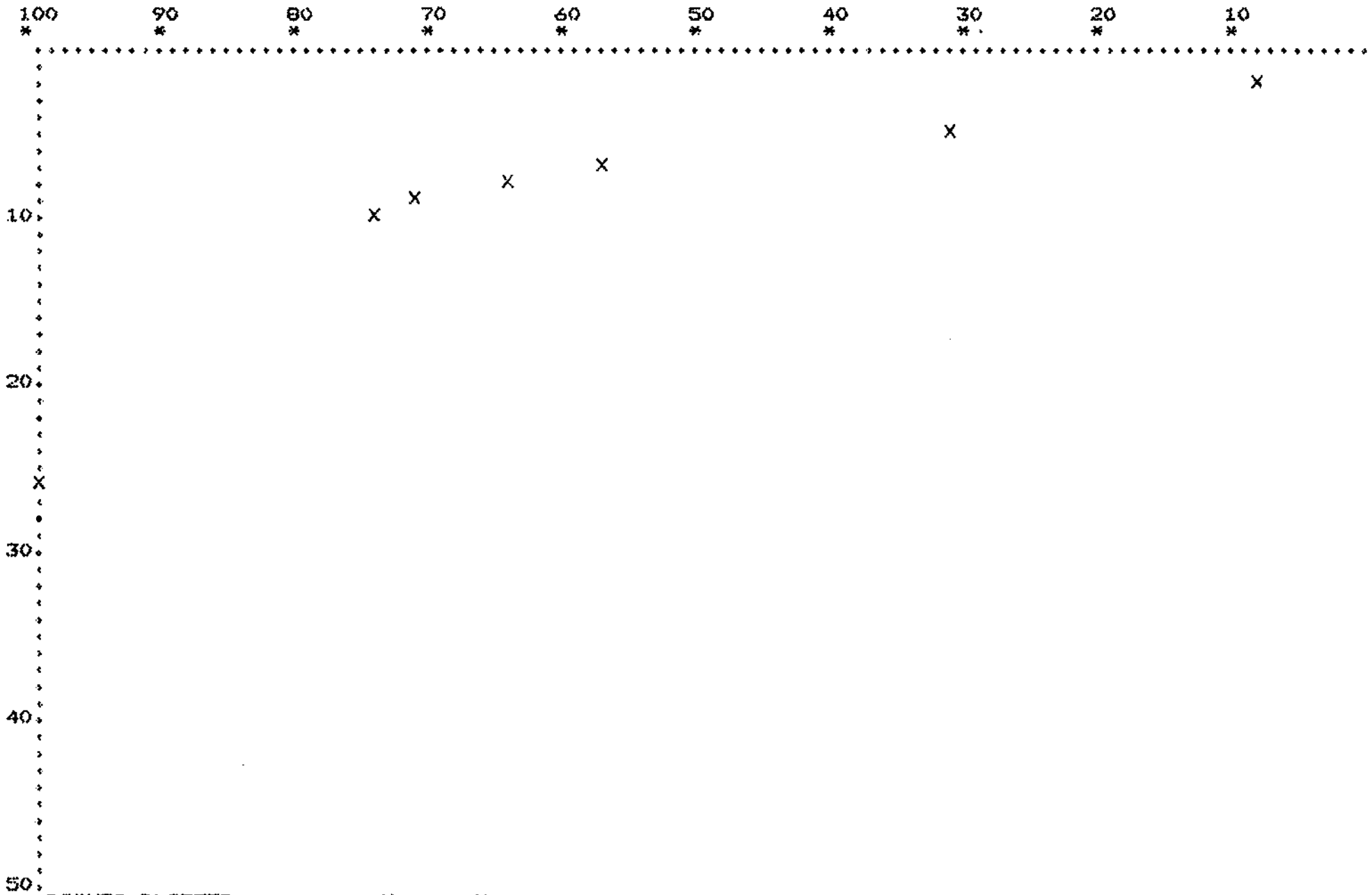
CUMULATIVE FLOATS WEIGHT PERCENT



X	Y
8	26
31	10
57	10
64	10
71	10
74	10
99	10



CUMULATIVE FLOATS WEIGHT PERCENT



ASH PERCENT

POINTS PLOTTED

X  
8  
31  
57  
64  
71  
74  
99  
Y  
26  
88  
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
8	10
31	15
57	20
64	25
71	30
74	40

COMPO NUMBER- 49

DRILL HOLE NUMBER- 1906

SEAM NUMBER- 64883-86

*part 5 lower*

FLOTATION RESULTS

PRODUCT	KEROSENE WEIGHT (GMS)	WEIGHT %	FROTHER .20		DISTRIBUTION	
			ASSAY ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	307.0	93.9	6.5	6.5	68.8	96.3
TAILS	20.0	6.1	45.2	1.0	31.2	3.7
CALC. HEAD	327.	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 ASH WT. %	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	321.	12.04	12.04	2.50	0.30	0.30	2.50	17.20	87.96	19.56	2.50	6.02	7.5
1.30-1.35	663.	24.86	36.90	6.20	1.54	1.84	4.99	15.66	63.10	24.82	6.20	24.47	1.5
1.35-1.40	620.	23.25	60.14	10.30	2.39	4.24	7.04	13.27	39.86	33.29	10.30	48.52	1.0
1.40-1.45	284.	10.65	70.79	15.90	1.69	5.93	8.38	11.58	29.21	39.63	15.90	65.47	1.0
1.45-1.50	139.	5.21	76.00	21.10	1.10	7.03	9.25	10.48	24.00	43.65	21.10	73.40	1.0
1.50-1.60	231.	8.66	84.66	28.70	2.49	9.52	11.24	7.99	15.34	52.10	28.70	80.33	1.0
1.60 SINK	409.	15.34	100.00	52.10	7.99	17.51	17.51	0.0	0.00	0.0	52.10	92.33	1.0

FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAF	RECOVERY AND ASH		CALCULATIONS		FRAI	FRI	AP
		A	R	FR	FAR			
0.1032	0.0067	4.0	26.5	0.2363	0.0095	0.0162	.339	4.8
0.1032	0.0067	6.0	48.7	0.4332	0.0260	0.0327	.536	6.1
0.1032	0.0067	8.0	68.1	0.6065	0.0485	0.0552	.710	7.8
0.1032	0.0067	10.0	79.7	0.7090	0.0709	0.0776	.812	9.6
0.1032	0.0067	12.0	87.5	0.7787	0.0934	0.1002	.882	11.4
0.1032	0.0067	14.0	93.7	0.8336	0.1167	0.1234	.937	13.2
0.1032	0.0067	16.0	98.0	0.8720	0.1395	0.1462	.975	15.0

COMPO NUMBER-- 49

DRILL HOLE NUMBER-- 1906

SEAM NUMBER-- 64883-86

## DATA

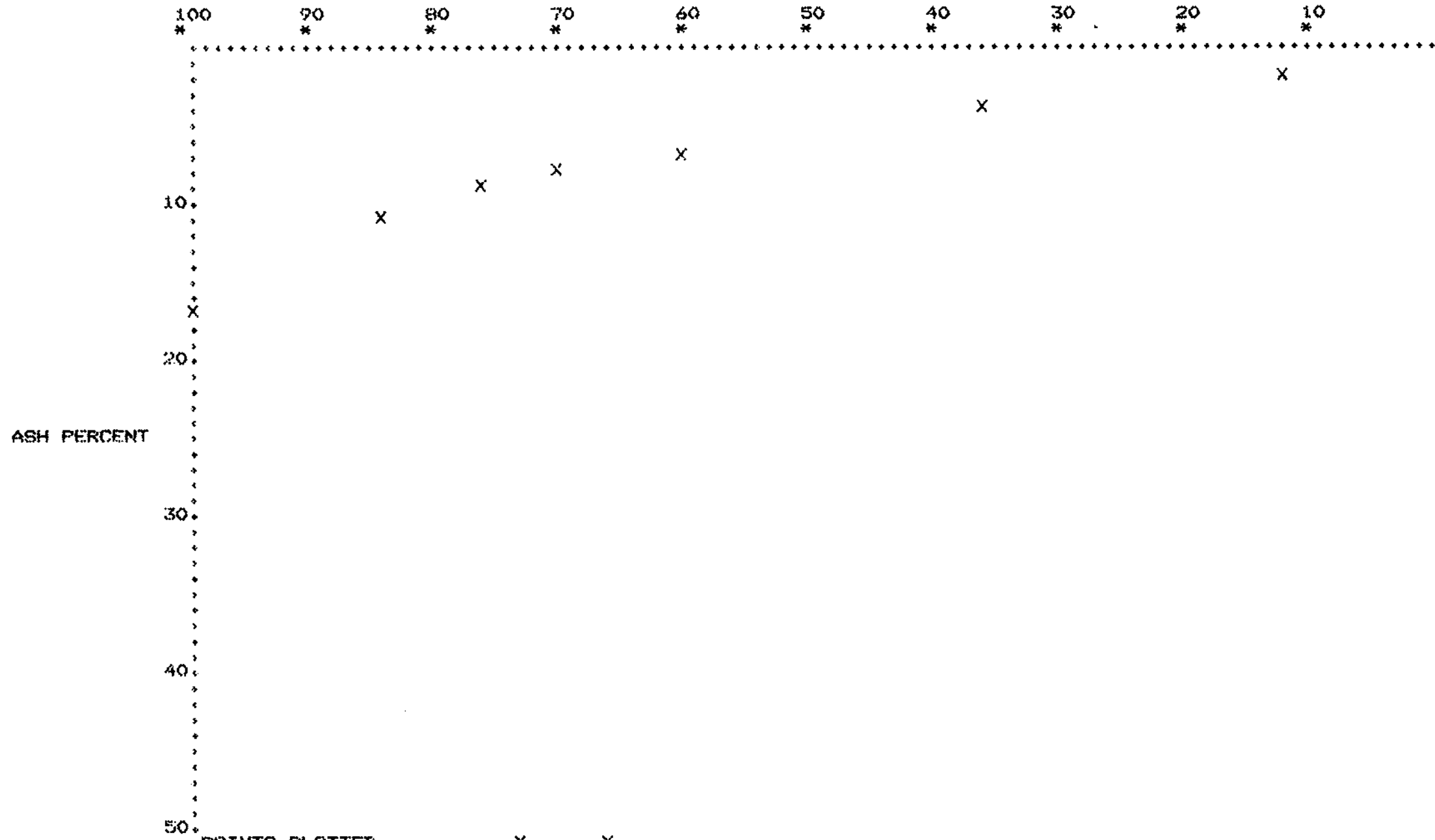
## SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MESH	3053.	89.0	17.5
-28MESH	377.	11.0	8.9
FEED	3430.	100.0	16.6

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	6.50	93.88		10.32	13.68
PLUS 28	8.75	73.16	1.47	65.12	86.32
COMBINED	8.50	75.44		75.44	100.00
FLOTATION	6.50	93.88		10.32	13.19
PLUS 28	9.31	76.32	1.50	67.93	86.81
COMBINED	9.00	78.25		78.25	100.00
FLOTATION	6.50	93.88		10.32	12.79
PLUS 28	9.87	79.05	1.53	70.37	87.21
COMBINED	9.50	80.68		80.68	100.00
FLOTATION	6.50	93.88		10.32	12.45
PLUS 28	10.43	81.54	1.56	72.58	87.55
COMBINED	10.00	82.90		82.90	100.00

CUMULATIVE FLOATS WEIGHT PERCENT



POINTS PLOTTED

X	Y
12	2
36	4
60	7
70	8
76	9
84	11
99	17

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
12	10
36	15
60	20
70	25
76	30
84	40



COMPO NUMBER- 50

DRILL HOLE NUMBER- 1906

SEAM NUMBER- 64887-89

*part 5 lower*

FLOTATION RESULTS

PRODUCT	KEROSENE WEIGHT (GMS)	WEIGHT %	ASSAY		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	261.0	79.6	6.4	6.5	47.3	83.5
TAILS	67.0	20.4	27.8	2.0	52.7	16.5
CALC. HEAD	328.	100.0	10.8		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	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	142.	7.30	7.30	2.40	0.18	0.18	2.40	23.70	92.70	25.56	2.40	3.65	7.5	
1.30-1.35	301.	15.48	22.78	6.80	1.05	1.23	5.39	22.65	77.22	29.33	6.80	15.04	2.0	
1.35-1.40	491.	25.24	48.02	10.50	2.65	3.88	8.08	20.00	51.98	38.47	10.50	35.40	1.0	
1.40-1.45	189.	9.72	57.74	16.50	1.60	5.48	9.49	18.39	42.26	43.52	16.50	52.88	1.0	
1.45-1.50	160.	8.23	65.96	23.20	1.91	7.39	11.20	16.48	34.04	48.43	23.20	61.85	1.5	
1.50-1.60	203.	10.44	76.40	28.60	2.98	10.38	13.58	13.50	23.60	57.20	28.60	71.18	1.0	
1.60 SINK	459.	23.60	100.00	57.20	13.50	23.87	23.87	0.0	0.00	0.0	57.20	88.20	1.0	

FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRF/AF	RECOVERY		AND ASH CALCULATIONS		FRAI	FRI	AP
		A	R	FR	FAR			
0.1235	0.0079	4.0	13.9	0.1177	0.0047	0.0126	.241	5.2
0.1235	0.0079	6.0	28.4	0.2402	0.0144	0.0223	.364	6.1
0.1235	0.0079	8.0	47.3	0.3996	0.0320	0.0399	.523	7.6
0.1235	0.0079	10.0	60.4	0.5104	0.0510	0.0589	.634	9.3
0.1235	0.0079	12.0	69.6	0.5883	0.0706	0.0785	.712	11.0
0.1235	0.0079	14.0	78.1	0.6594	0.0923	0.1002	.783	12.8
0.1235	0.0079	16.0	85.1	0.7190	0.1150	0.1229	.842	14.6
0.1235	0.0079	18.0	90.8	0.7674	0.1381	0.1460	.891	16.4
0.1235	0.0079	20.0	95.2	0.8046	0.1609	0.1688	.928	18.2

COMPO NUMBER- 50

DRILL HOLE NUMBER- 1906

SEAM NUMBER- 64887-09

DATA

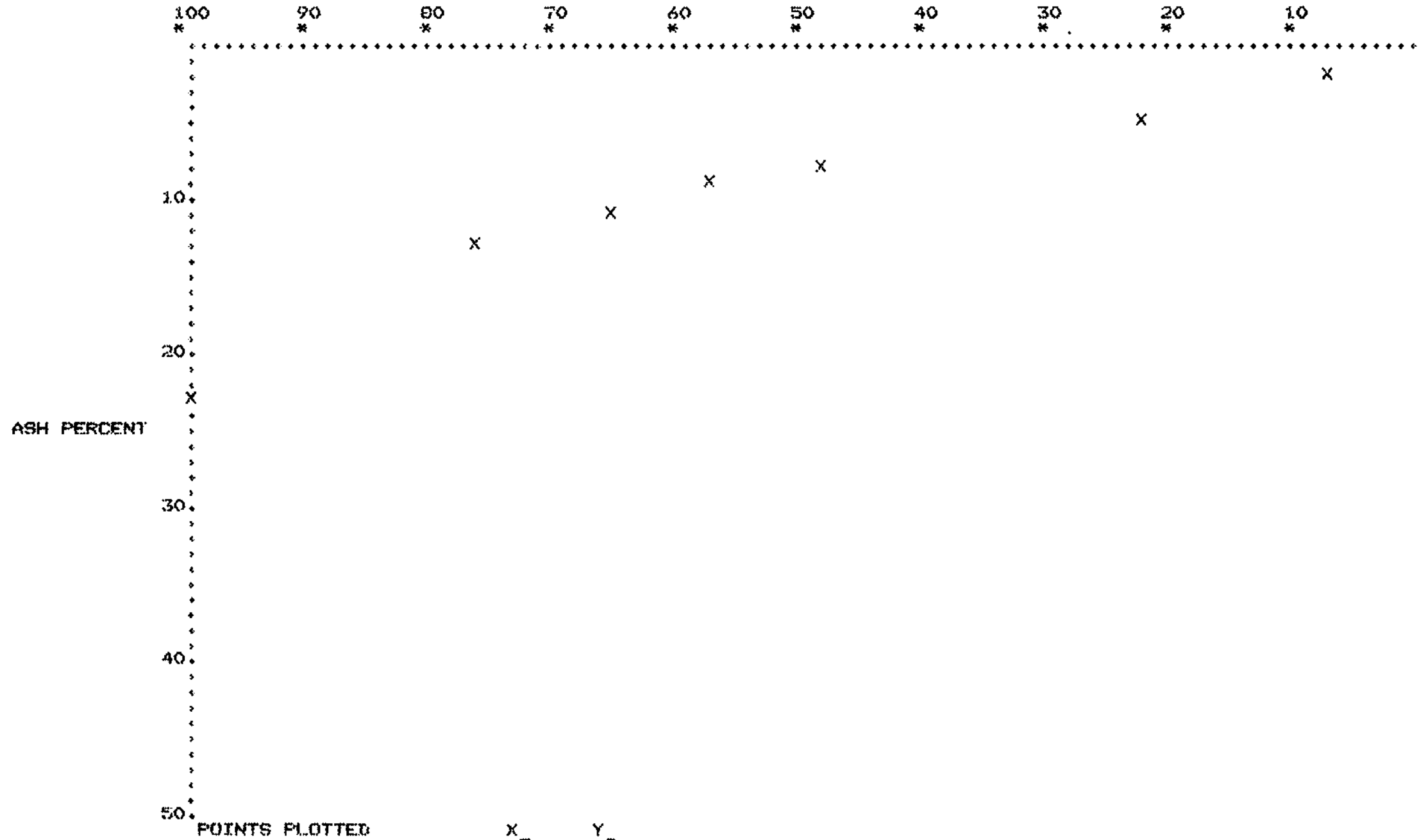
SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(X)
+28MESH	2314.	84.5	23.9
-28MESH	425.	15.5	10.8
FEED	2739.	100.0	21.8

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	6.40	79.57		12.35	21.33
PLUS 28	8.89	53.89	1.43	45.53	78.67
COMBINED	8.50	57.87		57.87	100.00
FLOTATION	6.40	79.57		12.35	20.22
PLUS 28	9.48	57.65	1.45	48.70	79.78
COMBINED	9.00	61.05		61.05	100.00
FLOTATION	6.40	79.57		12.35	19.39
PLUS 28	10.07	60.76	1.47	51.33	80.61
COMBINED	9.50	63.68		63.68	100.00
FLOTATION	6.40	79.57		12.35	18.69
PLUS 28	10.66	63.60	1.48	53.73	81.31
COMBINED	10.00	66.08		66.08	100.00

CUMULATIVE FLOATS WEIGHT PERCENT

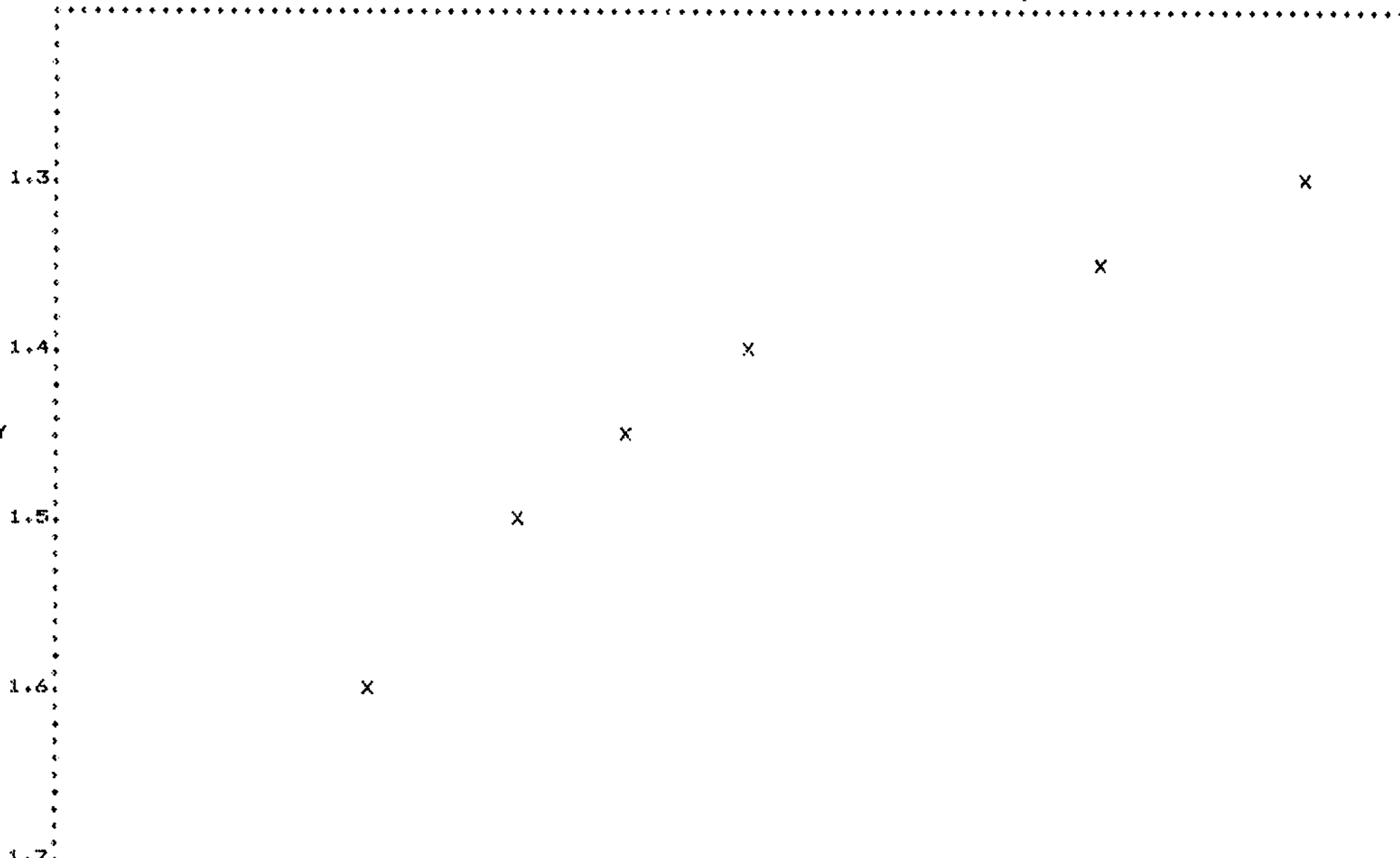


POINTS PLOTTED

X	Y
7	23
22	13
48	11
57	7
65	6
76	5
99	4

CUMULATIVE FLOATS WEIGHT PERCENT

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



SPECIFIC GRAVITY

1.7  
1.6  
1.5  
1.4  
1.3

POINTS PLOTTED

X	Y
7	10
22	15
48	20
57	25
65	30
76	40

COMPO NUMBER-- 51

DRILL HOLE NUMBER-- 1906

SEAM NUMBER-- 64892-64900

*4 Upper*

FLOTATION RESULTS

PRODUCT	KEROSENE WEIGHT (GMS)	,90 WEIGHT X	FROTHER .20 ASSAY		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	306.0	93.3	5.6	7.5	74.3	94.7
TAILS	22.0	6.7	26.9	1.5	25.7	5.3
CALC. HEAD	328.	100.0	7.0		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 ASH WT. %	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	767.	19.49	19.49	2.50	0.49	0.49	2.50	12.36	80.51	15.35	2.50	9.74	7.5
1.30-1.35	1150.	29.22	48.70	5.90	1.72	2.21	4.54	10.64	51.30	20.74	5.90	34.10	1.5
1.35-1.40	822.	20.88	69.59	10.50	2.19	4.40	6.33	8.44	30.41	27.77	10.50	59.15	1.0
1.40-1.45	409.	10.39	79.98	15.70	1.63	6.04	7.55	6.81	20.02	34.03	15.70	74.78	1.0
1.45-1.50	245.	6.22	86.20	21.30	1.33	7.36	8.54	5.49	13.80	39.77	21.30	83.09	1.0
1.50-1.60	242.	6.15	92.35	27.80	1.71	9.07	9.82	3.78	7.65	49.40	27.80	89.28	1.0
1.60 SINK	301.	7.65	100.00	49.40	3.78	12.85	12.85	0.00	0.00	0.0	49.40	96.18	1.0



FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAF	RECOVERY AND ASH CALCULATIONS				FRAI	FRI	AP
		A	R	FR	FAR			
0.1306	0.0073	4.0	41.5	0.3572	0.0143	0.0216	.488	4.4
0.1306	0.0073	6.0	66.2	0.5691	0.0341	0.0415	.700	5.9
0.1306	0.0073	8.0	83.1	0.7145	0.0572	0.0645	.845	7.6
0.1306	0.0073	10.0	93.1	0.8004	0.0800	0.0874	.931	9.4
0.1306	0.0073	12.0	98.8	0.8499	0.1020	0.1093	.981	11.1

COMPO NUMBER-- 51

DRILL HOLE NUMBER-- 1906

SEAM NUMBER-- 64892-64900

DATA

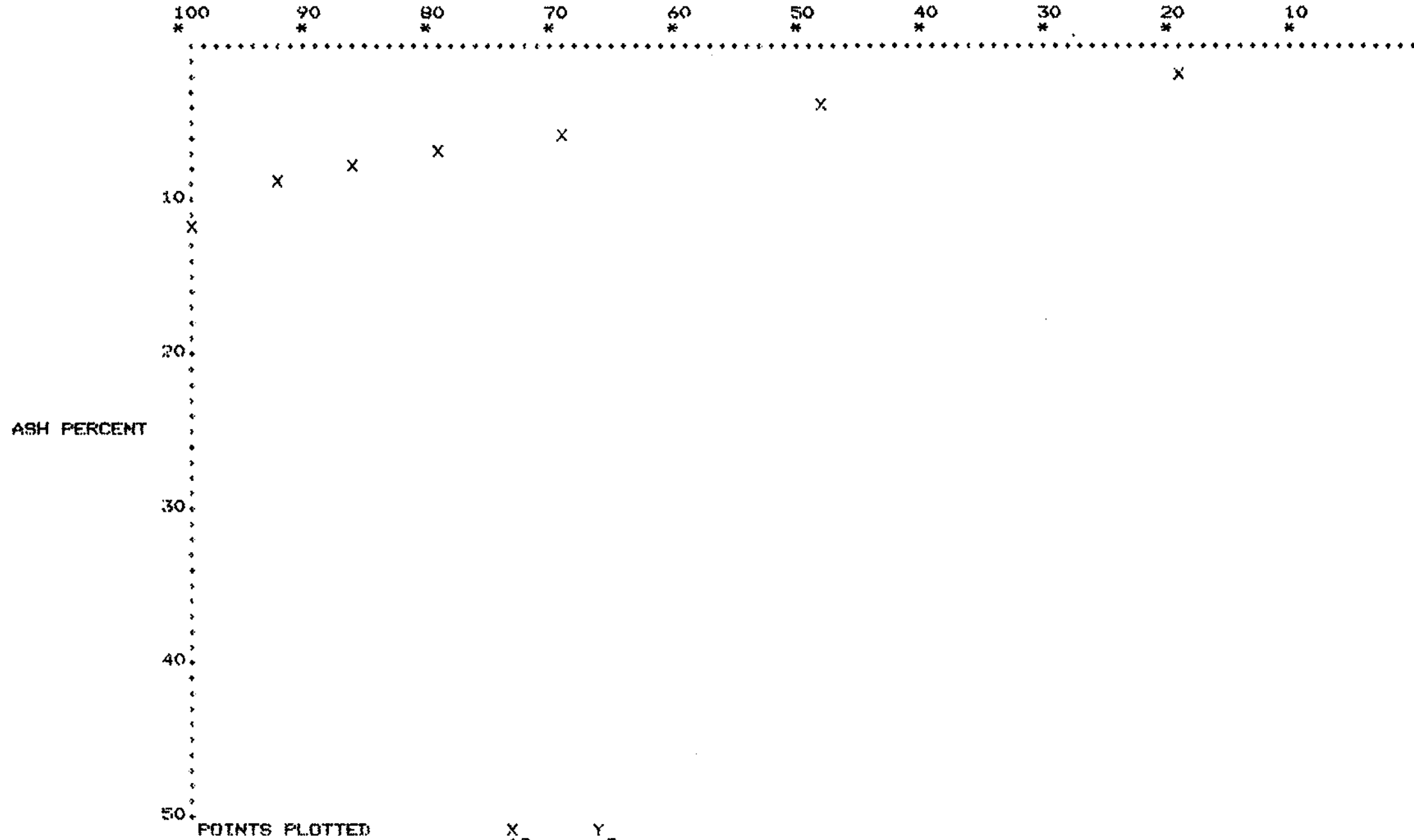
SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(X)	ASH(X)
+28MESH	4319.	86.0	12.8
-28MESH	703.	14.0	7.0
FEED	5022.	100.0	12.0

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	5.60	93.29		13.06	14.64
PLUS 28	8.97	88.52	1.53	76.13	85.36
COMBINED	8.50	89.19		89.19	100.00
FLOTATION	5.60	93.29		13.06	14.27
PLUS 28	9.55	91.25	1.58	78.48	85.73
COMBINED	9.00	91.54		91.54	100.00
FLOTATION	5.60	93.29		13.06	13.96
PLUS 28	10.13	93.59	+1.60	80.49	86.04
COMBINED	9.50	93.55		93.55	100.00
FLOTATION	5.60	93.29		13.06	13.71
PLUS 28	10.72	95.61	+1.60	82.23	86.29
COMBINED	10.00	95.29		95.29	100.00

CUMULATIVE FLOATS WEIGHT PERCENT

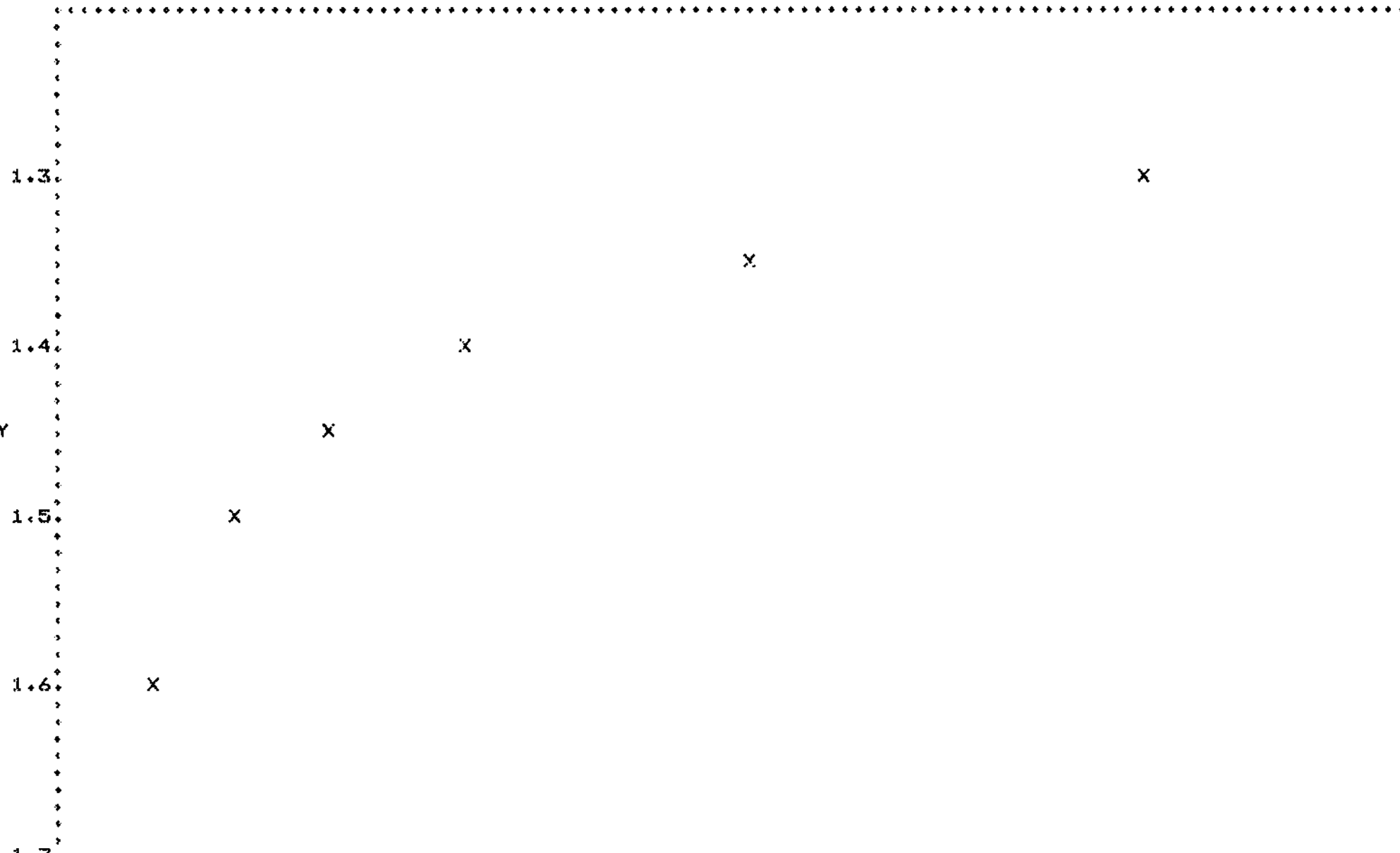


POINTS PLOTTED

X	Y
19	35
48	28
69	22
79	18
86	15
92	12
99	12

CUMULATIVE FLOATS WEIGHT PERCENT

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



SPECIFIC GRAVITY

POINTS PLOTTED

X	Y
19	10
48	15
69	20
79	25
86	30
92	40

COMPO NUMBER- 52

DRILL HOLE NUMBER- 1906

SEAM NUMBER- 64905-12

*4 lower.*

FLOTATION RESULTS

PRODUCT	KEROSENE WEIGHT (GMS)	.90 WEIGHT %	FROTHER .20		DISTRIBUTION	
			ASSAY ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	310.0	94.5	7.3	6.5	74.7	96.5
TAILS	18.0	5.5	42.5	1.0	25.3	3.5
CALC. HEAD	328.	100.0	9.2		100.0	100.0

TABLE 1

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

SG	WT. (GMS.)	WT. X	CUM.WT. %	FRACTION ASH %	ASH WT. OF TOT.	CUM.WT. %	CUM.FLTS. ASH	SINKS ASH WT. %	CUM.SINKS WT. %	CUM.SINKS ASH X	ASH CONTENT	FLTS. YIELD	FSI
1.30	816.	19.95	19.95	2.10	0.42	0.42	2.10	15.23	80.05	19.03	2.10	9.97	7.5
1.30-1.35	934.	22.83	42.78	6.00	1.37	1.79	4.18	13.86	57.22	24.22	6.00	31.36	3.5
1.35-1.40	877.	21.44	64.21	10.70	2.29	4.08	6.36	11.57	35.79	32.32	10.70	53.50	2.0
1.40-1.45	511.	12.49	76.70	15.60	1.95	6.03	7.86	9.62	23.30	41.29	15.60	70.46	1.0
1.45-1.50	230.	5.62	82.33	21.10	1.19	7.22	8.77	8.43	17.67	47.71	21.10	79.52	1.0
1.50-1.60	244.	5.96	88.29	28.70	1.71	8.93	10.11	6.72	11.71	57.40	28.70	85.31	1.0
1.60 SINK	479.	11.71	100.00	57.40	6.72	15.65	15.65	0.00	0.00	0.0	57.40	94.15	1.0

FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAF	RECOVERY AND ASH CALCULATIONS				FRAI	FRI	AP
		A	R	FR	FAR			
0.0894	0.0065	4.0	40.9	0.3701	0.0148	0.0213	.460	4.6
0.0894	0.0065	6.0	60.9	0.5515	0.0331	0.0396	.641	6.2
0.0894	0.0065	8.0	77.7	0.7032	0.0563	0.0628	.793	7.9
0.0894	0.0065	10.0	87.9	0.7956	0.0796	0.0861	.885	9.7
0.0894	0.0065	12.0	94.6	0.8564	0.1028	0.1093	.946	11.6
0.0894	0.0065	14.0	98.7	0.8933	0.1251	0.1316	.983	13.4

COMPO NUMBER- 52

DRILL HOLE NUMBER- 1906

SEAM NUMBER- 64905-12

DATA

SIZE DISTRIBUTION

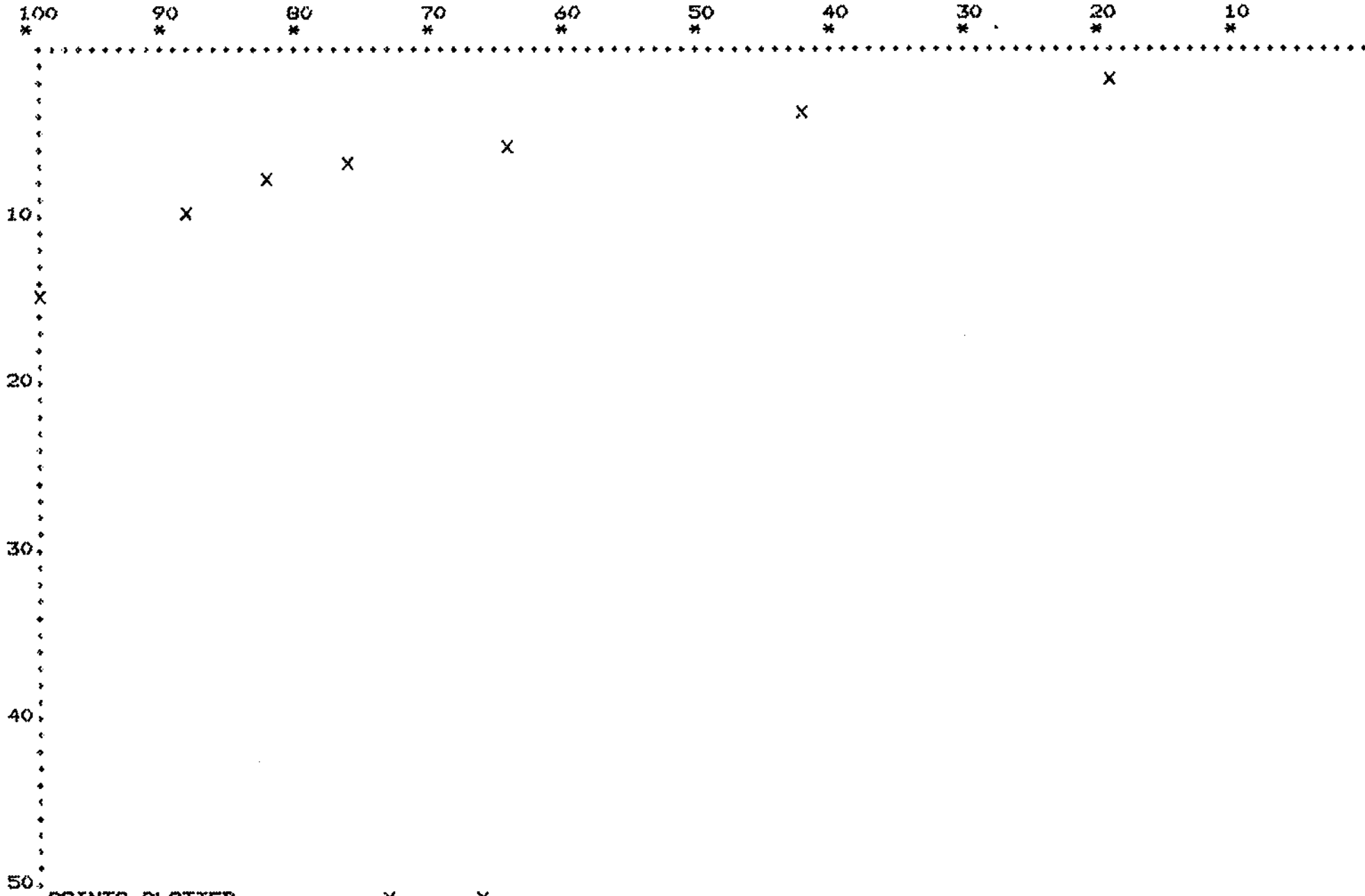
SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MESH	4508.	90.5	15.6
-28MESH	471.	9.5	9.2
FEED	4979.	100.0	15.0

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	7.30	94.51		8.94	10.80
PLUS 28	8.63	81.55	1.49	73.84	89.20
COMBINED	8.50	82.78		82.78	100.00
FLOTATION	7.30	94.51		8.94	10.48
PLUS 28	9.18	84.37	1.53	76.39	89.52
COMBINED	9.00	85.33		85.33	100.00
FLOTATION	7.30	94.51		8.94	10.21
PLUS 28	9.73	86.80	1.57	78.59	89.79
COMBINED	9.50	87.53		87.53	100.00
FLOTATION	7.30	94.51		8.94	9.99
PLUS 28	10.28	88.95	+1.60	80.54	90.01
COMBINED	10.00	89.48		89.48	100.00



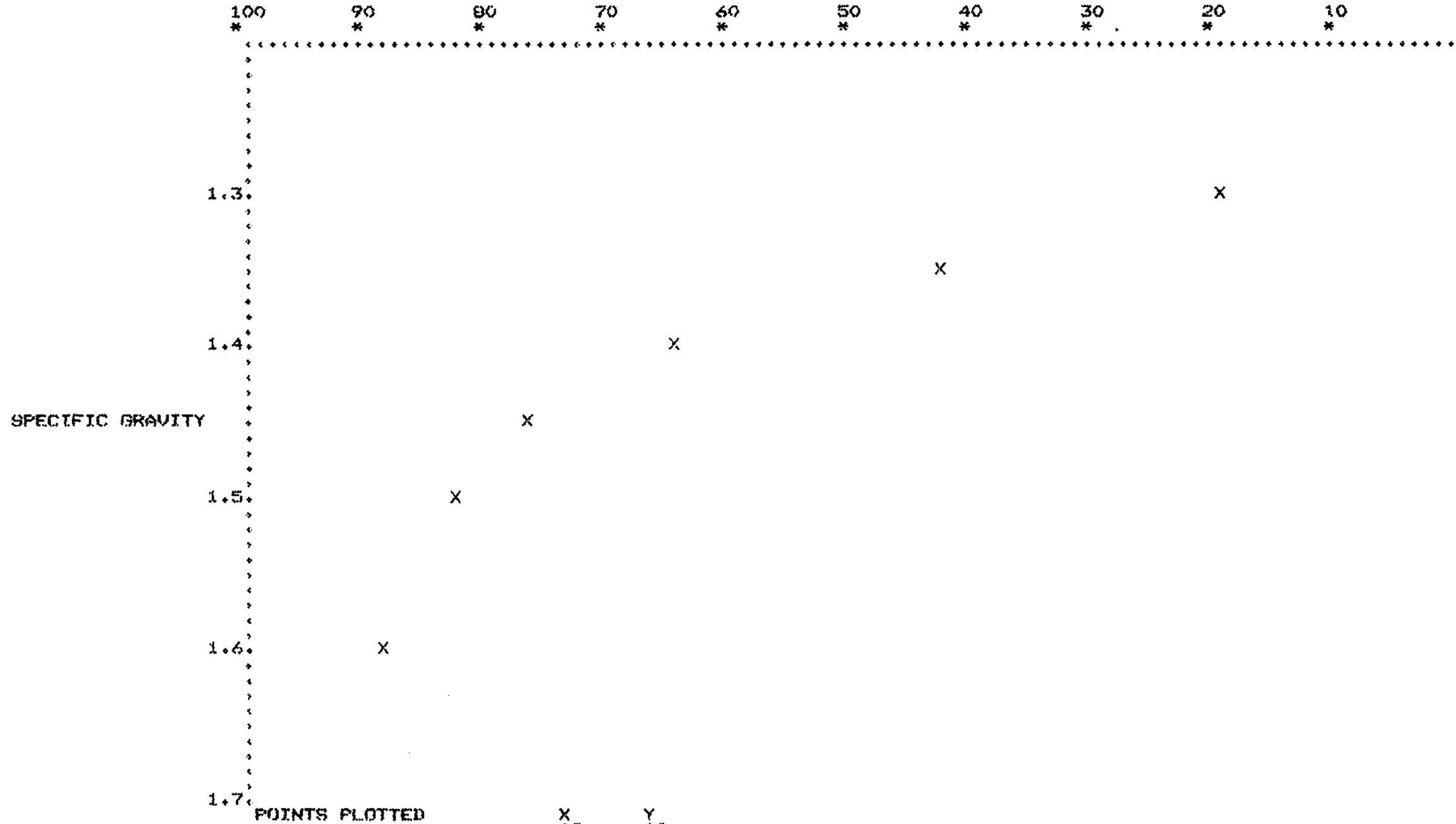
CUMULATIVE FLOATS WEIGHT PERCENT



POINTS PLOTTED

X	Y
19	2
42	4
64	6
76	7
82	8
88	10
99	15

CUMULATIVE FLOATS WEIGHT PERCENT



POINTS PLOTTED

X	Y
19	10
42	15
64	20
76	25
82	30
88	40

COMPO NUMBER- 53

DRILL HOLE NUMBER- 1906

SEAM NUMBER- 3 64916-18

\*\* NO FLOTATION RUNS \*\*

HEAD SAMPLE

WEIGHT %	ASSAY	
	ASH	FSI
100.0	10.7	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 ASH WT. %	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	268.	9.99	9.99	2.90	0.29	0.29	2.90	25.21	90.01	28.00	2.90	5.00	9.0
1.30-1.35	520.	19.39	29.38	7.70	1.49	1.78	6.07	23.71	70.62	33.58	7.70	19.69	6.5
1.35-1.40	625.	23.30	52.68	11.90	2.77	4.56	8.65	20.94	47.32	44.26	11.90	41.03	3.5
1.40-1.45	282.	10.51	63.20	16.70	1.76	6.31	9.99	19.18	36.80	52.13	16.70	57.94	2.0
1.45-1.50	160.	5.97	69.16	22.90	1.37	7.68	11.10	17.82	30.84	57.78	22.90	66.18	1.5
1.50-1.60	170.	6.34	75.50	29.90	1.90	9.57	12.68	15.92	24.50	65.00	29.90	72.33	1.0
1.60 SINK	657.	24.50	100.00	65.00	15.92	25.50	25.50	0.00	0.00	0.0	65.00	87.75	1.0

FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAF	RECOVERY		AND ASH CALCULATIONS		FRAI	FRI	AP
		A	R	FR	FAR			
0.0	0.0	4.0	15.6	0.1460	0.0058	0.0058	.146	4.0
0.0	0.0	6.0	28.9	0.2706	0.0162	0.0162	.271	6.0
0.0	0.0	8.0	46.7	0.4379	0.0350	0.0350	.438	8.0
0.0	0.0	10.0	63.3	0.5934	0.0593	0.0593	.593	10.0
0.0	0.0	12.0	73.0	0.6842	0.0821	0.0821	.684	12.0
0.0	0.0	14.0	80.2	0.7524	0.1053	0.1053	.752	14.0
0.0	0.0	16.0	86.5	0.8106	0.1297	0.1297	.811	16.0
0.0	0.0	18.0	91.5	0.8579	0.1544	0.1544	.858	18.0
0.0	0.0	20.0	95.4	0.8942	0.1788	0.1788	.894	20.0

COMPO NUMBER-- 53

DRILL HOLE NUMBER-- 1906

SEAM NUMBER-- 64916-10

DATA

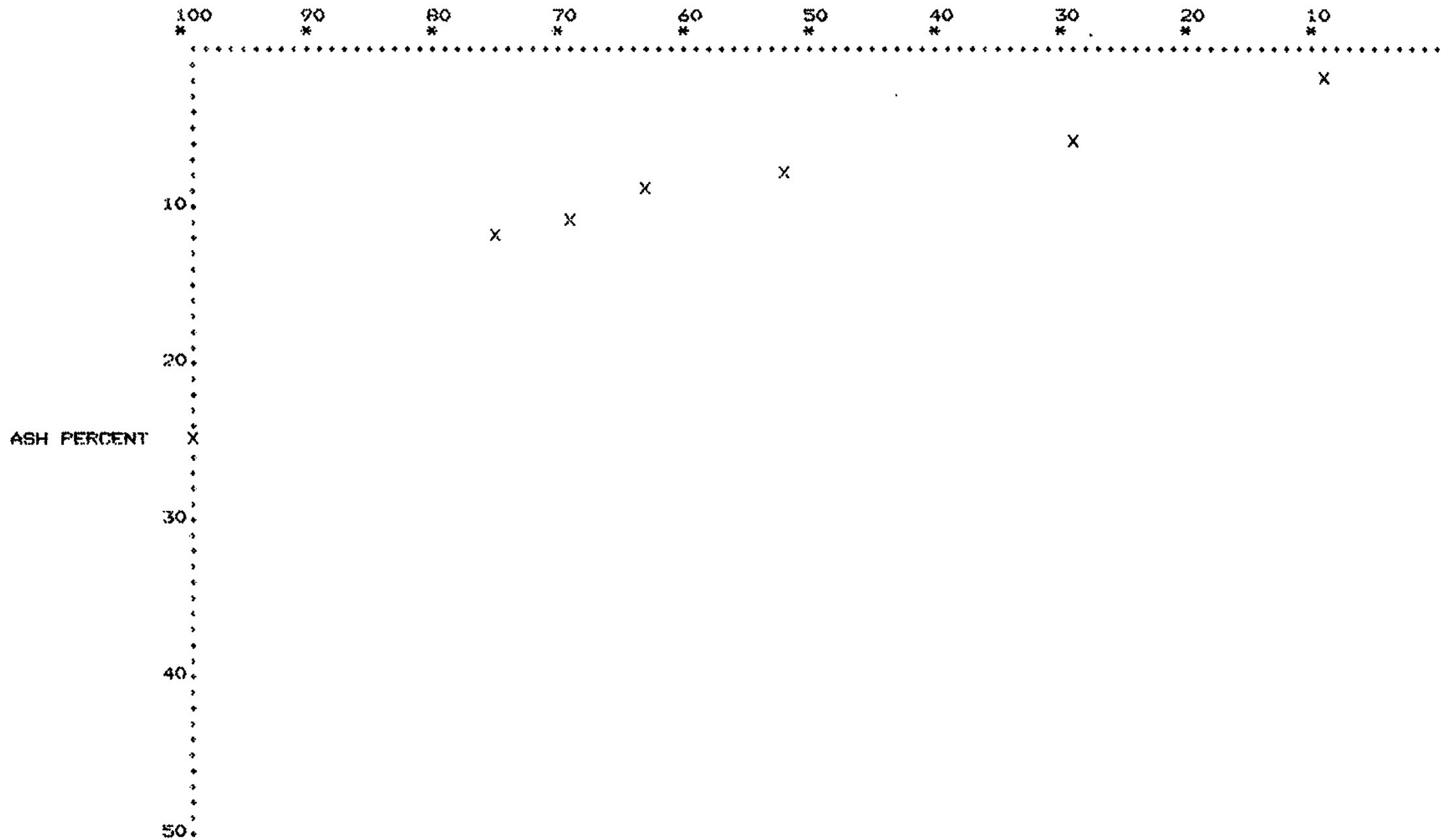
SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MESH	3092.	93.8	25.5
-28MESH	206.	6.2	10.7
FEED	3298.	100.0	24.6

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	9.07	56.24	1.42	52.73	100.00
COMBINED	8.50	52.73		52.73	100.00
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	9.60	60.42	1.44	56.64	100.00
COMBINED	9.00	56.64		56.64	100.00
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	10.13	64.10	1.46	60.10	100.00
COMBINED	9.50	60.10		60.10	100.00
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	10.67	67.08	1.48	62.89	100.00
COMBINED	10.00	62.89		62.89	100.00

CUMULATIVE FLOATS WEIGHT PERCENT

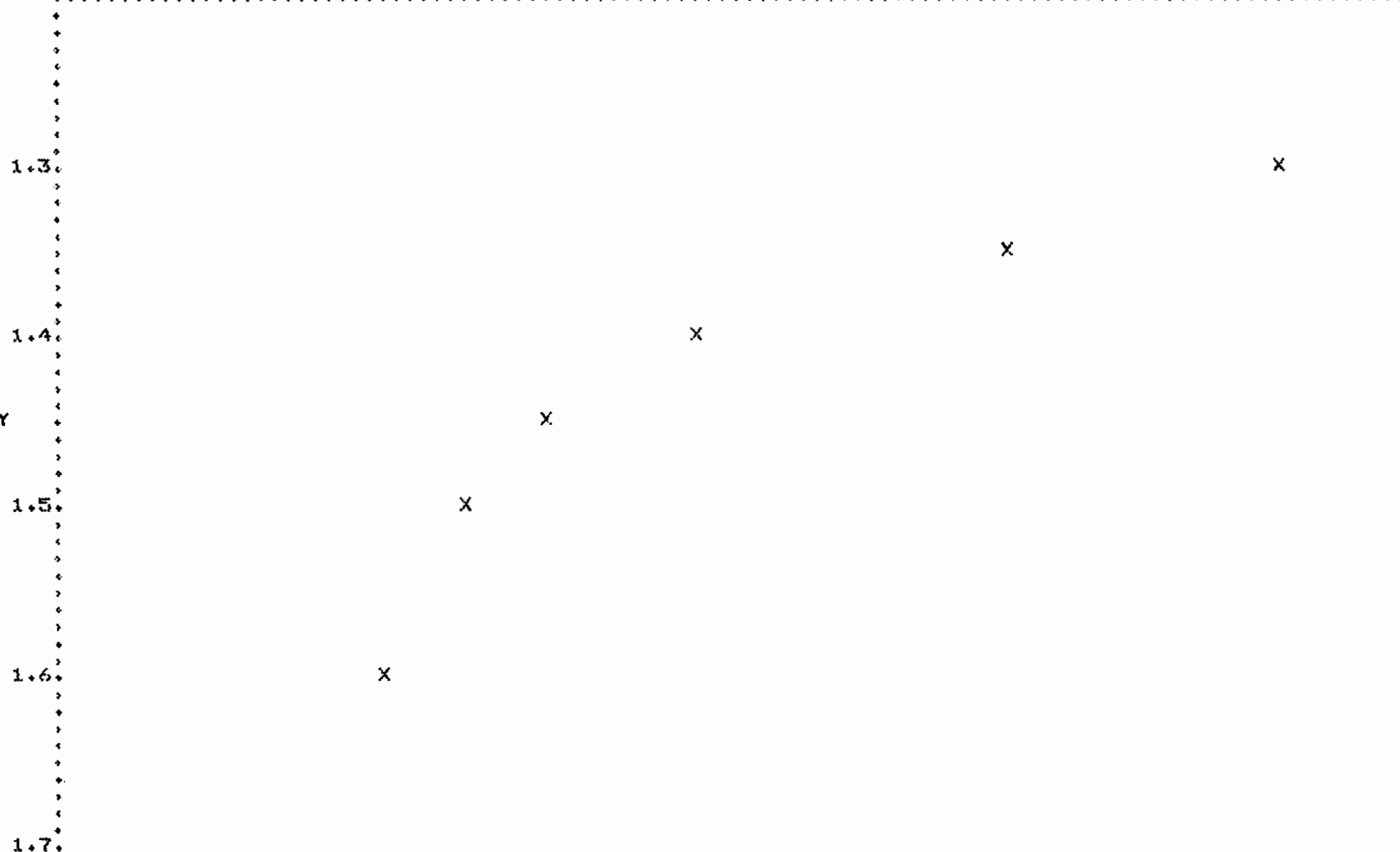


POINTS PLOTTED

X	Y
9	25
29	29
52	52
63	63
69	69
75	75
99	99

CUMULATIVE FLOATS WEIGHT PERCENT

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



SPECIFIC GRAVITY

POINTS PLOTTED

X	Y
9	10
29	15
52	20
63	25
69	30
75	40



COMPO NUMBER-- 54

DRILL HOLE NUMBER-- 1906

SEAM NUMBER-- 64919-21

2

\*\* NO FLOTATION RUNS \*\*

HEAD SAMPLE

WEIGHT %	ASSAY	
	ASH	FSI
100.0	16.3	6.5

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	FSJ
1.30	679.	47.42	47.42	3.60	1.71	1.71	3.60	18.86	52.58	35.87	3.60	23.71	8.5	
1.30-1.35	155.	10.82	58.24	8.00	0.87	2.57	4.42	17.99	41.76	43.09	8.00	52.83	7.5	
1.35-1.40	33.	2.30	60.54	13.10	0.30	2.87	4.75	17.69	39.46	44.84	13.10	59.39	7.5	
1.40-1.45	18.	1.26	61.80	17.60	0.22	3.10	5.01	17.47	38.20	45.74	17.60	61.17	3.5	
1.45-1.50	47.	3.28	65.08	23.40	0.77	3.86	5.94	16.70	34.92	47.84	23.40	63.44	1.0	
1.50-1.60	26.	1.82	66.90	30.30	0.55	4.41	6.60	16.15	33.10	48.80	30.30	65.99	1.0	
1.60 SINK	474.	33.10	100.00	48.80	16.15	20.57	20.57	0.0	0.00	0.0	48.80	83.45	1.0	

FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAF	RECOVERY AND ASH		CALCULATIONS		FRAI	FRI	AP
		A	R	FR	FAR			
0.0	0.0	4.0	53.7	0.4976	0.0199	0.0199	.498	4.0
0.0	0.0	6.0	65.3	0.6053	0.0363	0.0363	.605	6.0
0.0	0.0	8.0	70.7	0.6554	0.0524	0.0524	.655	8.0
0.0	0.0	10.0	75.9	0.7037	0.0704	0.0704	.704	10.0
0.0	0.0	12.0	80.9	0.7502	0.0900	0.0900	.750	12.0
0.0	0.0	14.0	85.7	0.7947	0.1113	0.1113	.795	14.0
0.0	0.0	16.0	90.3	0.8373	0.1340	0.1340	.837	16.0
0.0	0.0	18.0	94.7	0.8780	0.1580	0.1580	.878	18.0
0.0	0.0	20.0	98.9	0.9167	0.1833	0.1833	.917	20.0

COMPO NUMBER- 54

DRILL HOLE NUMBER- 1906

SEAM NUMBER- 64919-21

DATA

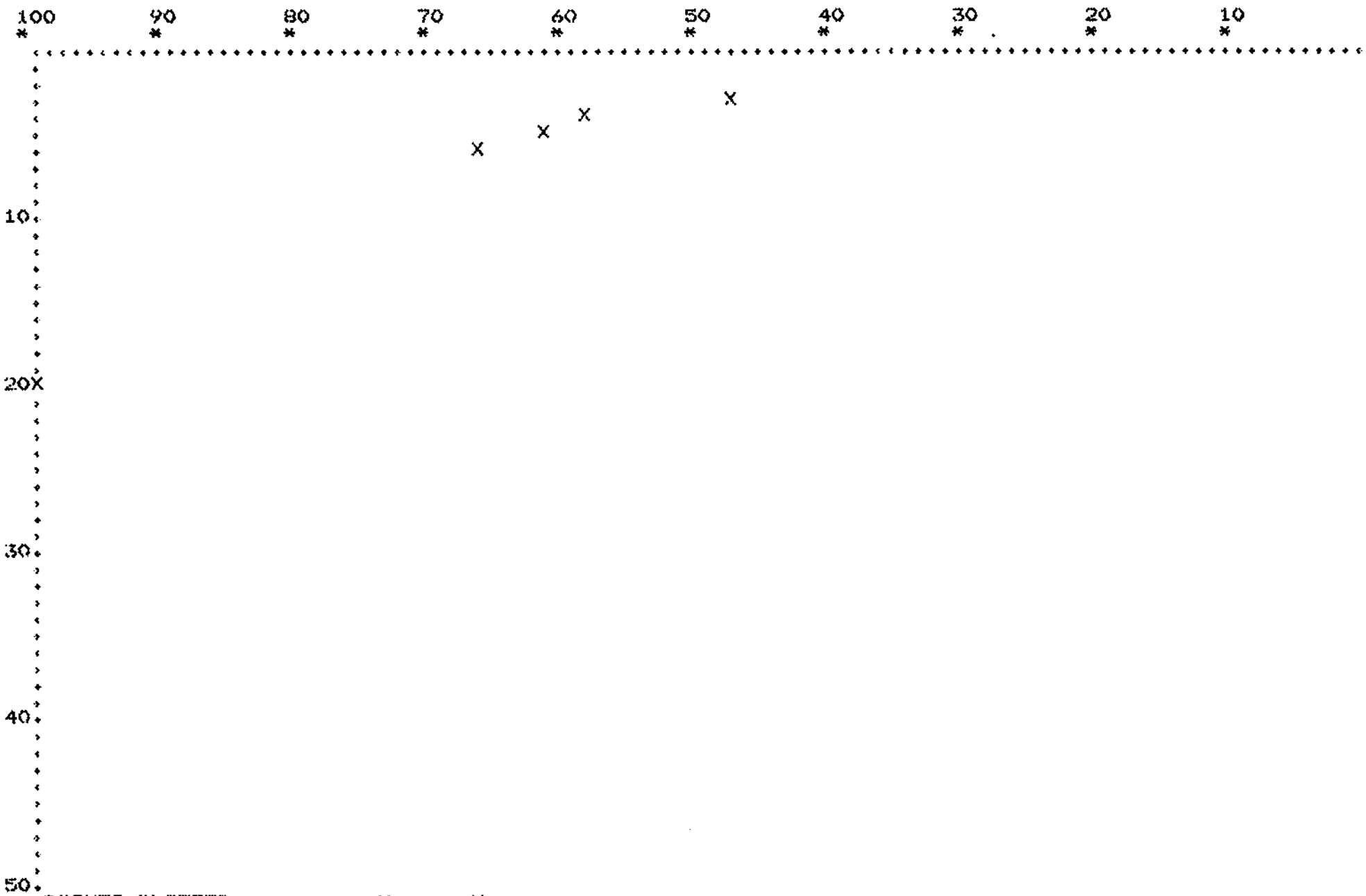
SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(X)	ASH(X)
+28MESH	1839.	92.7	20.6
-28MESH	144.	7.3	16.3
FEED	1983.	100.0	20.3

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	9.17	73.74	+1.60	68.38	100.00
COMBINED	8.50	68.38		68.38	100.00
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	9.70	75.13	+1.60	69.67	100.00
COMBINED	9.00	69.67		69.67	100.00
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	10.24	76.51	+1.60	70.95	100.00
COMBINED	9.50	70.95		70.95	100.00
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	10.78	77.87	+1.60	72.21	100.00
COMBINED	10.00	72.21		72.21	100.00

CUMULATIVE FLOATS WEIGHT PERCENT

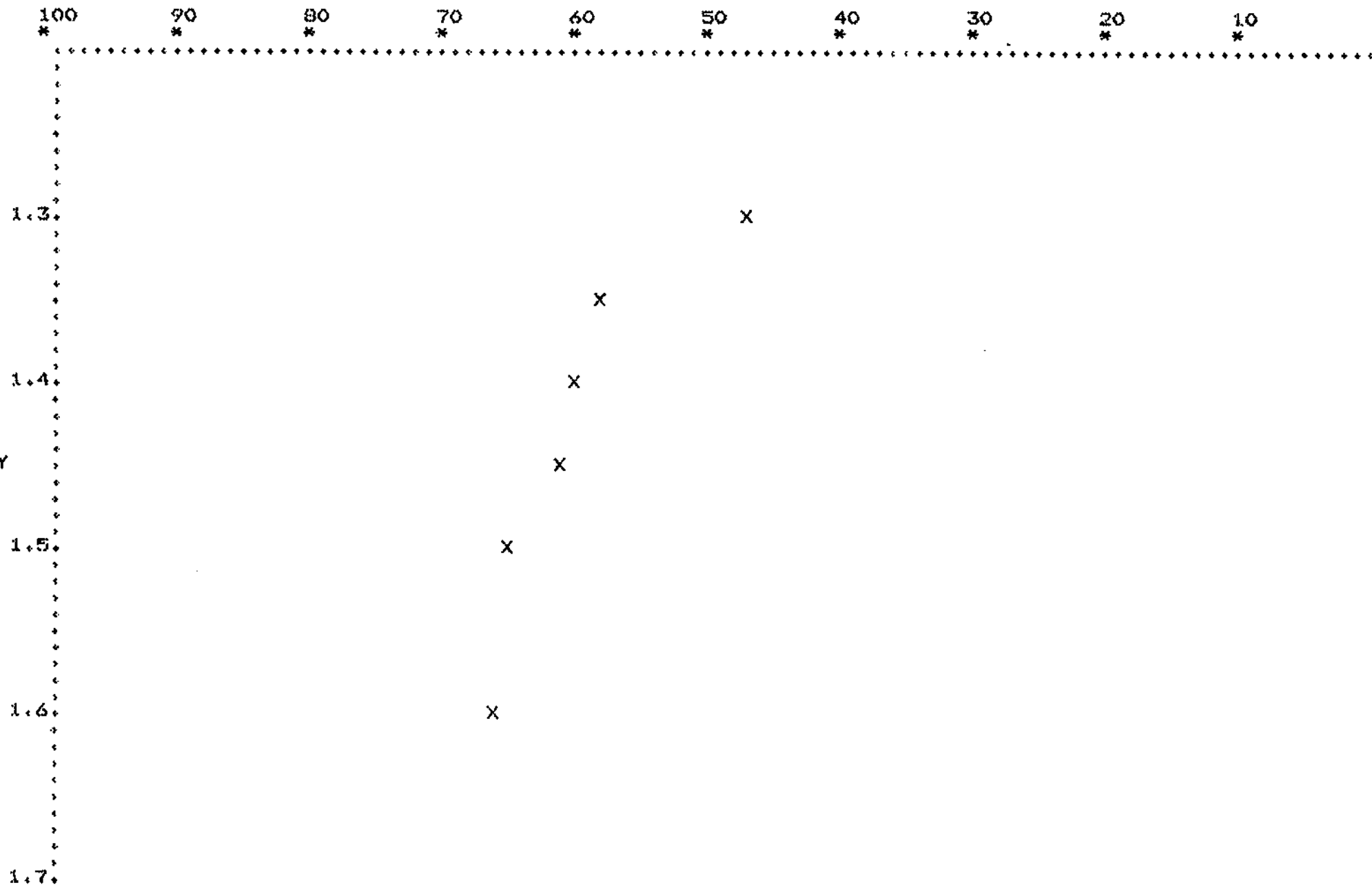


ASH PERCENT

POINTS PLOTTED

X	Y
47	3
58	4
60	4
61	5
65	5
66	6
99	20

CUMULATIVE FLOATS WEIGHT PERCENT



POINTS PLOTTED

X	Y
47	10
58	15
60	20
61	25
65	30
66	40

COMPO NUMBER-- 55

DRILL HOLE NUMBER-- 1906

SEAM NUMBER-- 14922-25,64951

FLOTATION RESULTS

PRODUCT	KEROSENE WEIGHT (GMS)	WEIGHT %	FROTHER .20		DISTRIBUTION	
			ASSAY ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	313.0	95.7	8.0	7.5	83.8	96.9
TAILS	14.0	4.3	34.7	1.5	16.2	3.1
CALC. HEAD	327.	100.0	9.1		100.0	100.0

TABLE 1

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

SG	WT. (GMS.)	WT. %	CUM.WT. %	FRACTION ASH X	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	681.	15.75	15.75	4.00	0.63	0.63	4.00	13.12		84.25	15.57	4.00	7.87	8.5
1.30-1.35	1018.	23.54	39.29	8.00	1.88	2.51	6.40	11.24		60.72	18.51	8.00	27.51	6.5
1.35-1.40	1284.	29.69	68.97	12.00	3.56	6.08	8.81	7.67		31.03	24.73	12.00	54.13	3.5
1.40-1.45	726.	16.79	85.76	16.30	2.74	8.81	10.27	4.94		14.24	34.67	16.30	77.36	1.5
1.45-1.50	254.	5.87	91.63	21.50	1.26	10.07	10.99	3.68		8.37	43.92	21.50	88.69	1.0
1.50-1.60	110.	2.54	94.17	27.00	0.69	10.76	11.43	2.99		5.83	51.30	27.00	92.90	1.0
1.60 SINK	252.	5.83	100.00	51.30	2.99	13.75	13.75	0.00		0.00	0.0	51.30	97.09	1.0



FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAF	RECOVERY AND ASH CALCULATIONS				FRAI	FRI	AP
		A	R	FR	FAR			
0.0923	0.0074	4.0	15.7	0.1423	0.0057	0.0131	.235	5.6
0.0923	0.0074	6.0	35.0	0.3160	0.0190	0.0263	.408	6.5
0.0923	0.0074	8.0	58.8	0.5316	0.0425	0.0499	.624	8.0
0.0923	0.0074	10.0	82.9	0.7491	0.0749	0.0823	.841	9.8
0.0923	0.0074	12.0	96.7	0.8738	0.1049	0.1122	.966	11.6

COMPO NUMBER-- 55

DRILL HOLE NUMBER-- 1906

SEAM NUMBER-- 64922-25,64951

DATA

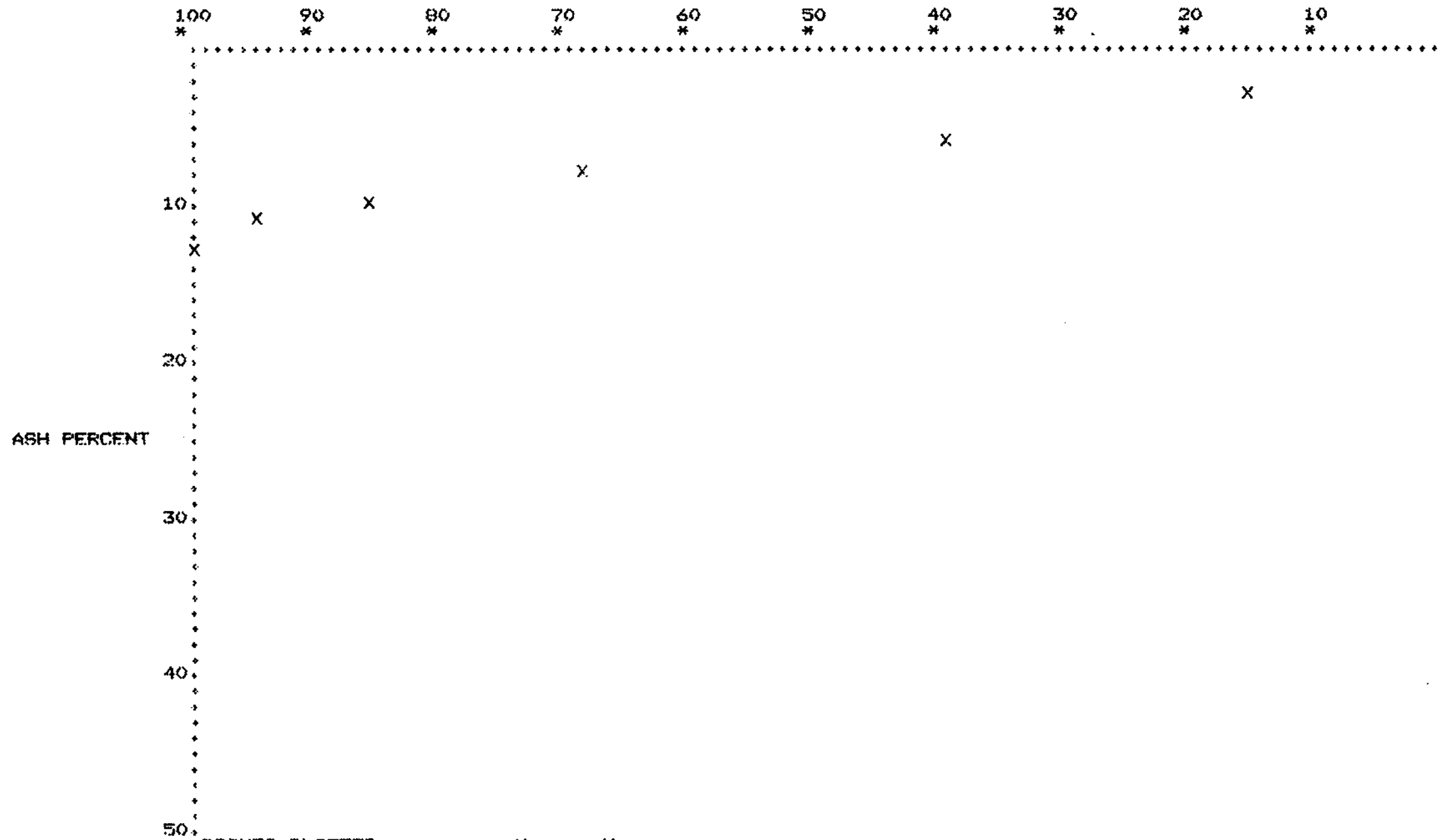
SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MESH	4730.	90.4	13.7
-28MESH	505.	9.6	9.1
FEED	5235.	100.0	13.3

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	8.00	95.72		9.23	13.45
PLUS 28	8.55	65.76	1.39	59.41	86.55
COMBINED	8.50	68.65		68.65	100.00
FLOTATION	8.00	95.72		9.23	12.32
PLUS 28	9.11	72.70	1.41	65.69	87.68
COMBINED	9.00	74.92		74.92	100.00
FLOTATION	8.00	95.72		9.23	11.43
PLUS 28	9.66	79.19	1.43	71.55	88.57
COMBINED	9.50	80.78		80.78	100.00
FLOTATION	8.00	95.72		9.23	10.72
PLUS 28	10.21	85.15	1.45	76.93	89.28
COMBINED	10.00	86.17		86.17	100.00

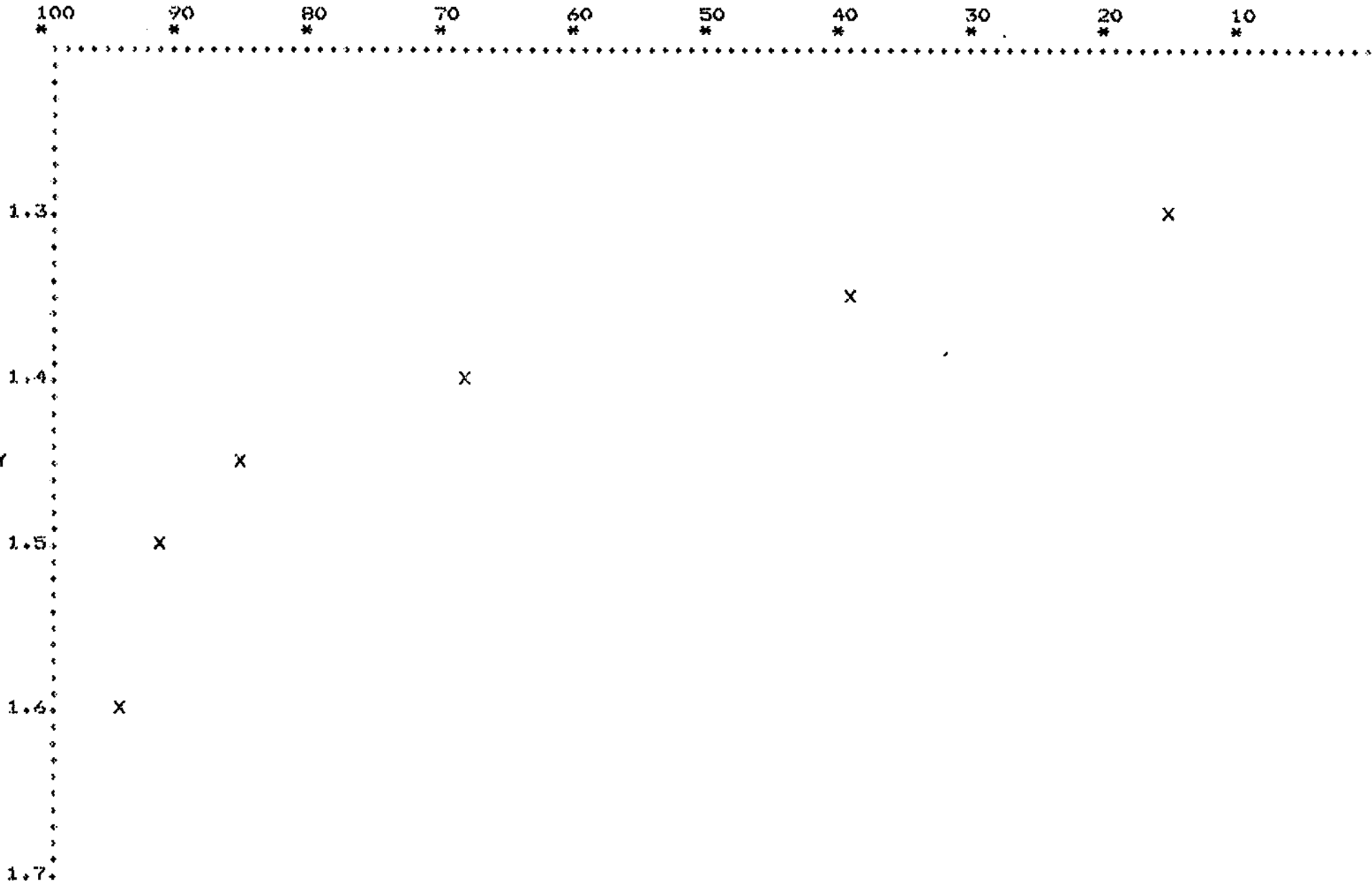
CUMULATIVE FLOATS WEIGHT PERCENT



POINTS PLOTTED

X	Y
15	5
39	5
68	8
85	10
91	10
94	11
99	13

CUMULATIVE FLOATS WEIGHT PERCENT



POINTS PLOTTED

X	Y
15	10
39	15
68	20
85	25
91	30
94	40

COMPO NUMBER-- 56

DRILL. HOLE NUMBER-- 1907

SEAM NUMBER-- 9 64929-44

FLOTATION RESULTS

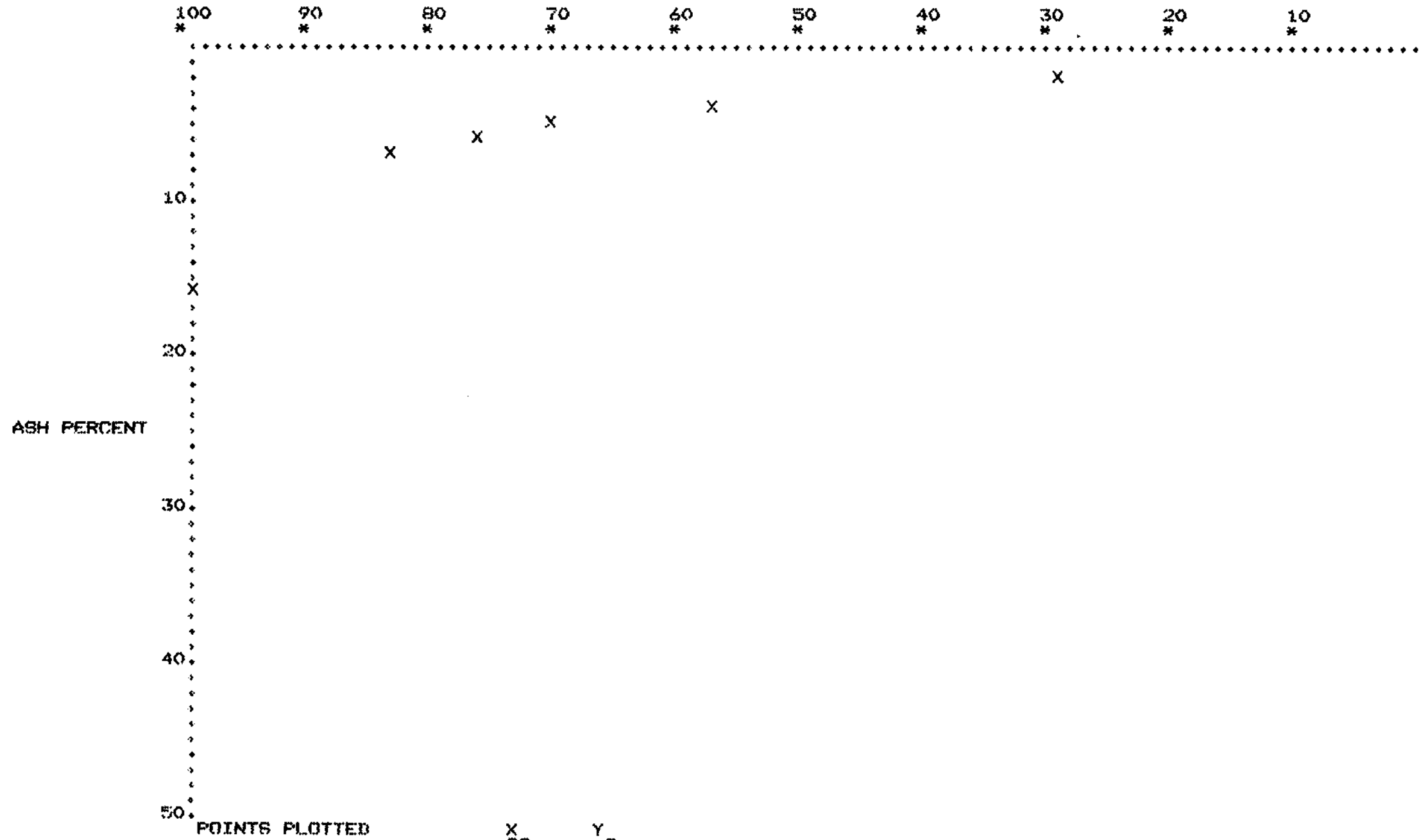
PRODUCT	KEROSENE WEIGHT (GMS)	.90 WEIGHT %	FROTHER .20		DISTRIBUTION	
			ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	298.0	90.9	5.2	6.5	62.0	93.2
TAILS	30.0	9.1	31.6	1.5	38.0	6.8
CALC. HEAD	328.	100.0	7.6		100.0	100.0

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	1266.	29.03	29.03	2.80	0.81	0.81	2.80	15.29		70.97	21.54	2.80	14.52	6.5
1.30-1.35	1259.	28.87	57.90	6.00	1.73	2.55	4.40	13.55		42.10	32.19	6.00	43.46	1.0
1.35-1.40	559.	12.82	70.72	10.00	1.28	3.83	5.41	12.27		29.28	41.91	10.00	64.31	1.0
1.40-1.45	231.	5.30	76.01	14.20	0.75	4.58	6.02	11.52		23.99	48.03	14.20	73.37	1.0
1.45-1.50	178.	4.08	80.10	19.20	0.78	5.36	6.70	10.74		19.90	53.94	19.20	78.06	1.0
1.50-1.60	168.	3.85	83.95	21.60	0.83	6.19	7.38	9.90		16.05	61.70	21.60	82.02	1.0
1.60 SINK	700.	16.05	100.00	61.70	9.90	16.10	16.10	0.0		0.00	0.0	61.70	91.97	0.5

CUMULATIVE FLOATS WEIGHT PERCENT



X	Y
29	2
57	4
70	5
76	6
80	6
83	7
99	16

COMPO NUMBER-- 56

DRILL HOLE NUMBER-- 1907

SEAM NUMBER-- 64929-44

DATA  
SIZE DISTRIBUTION

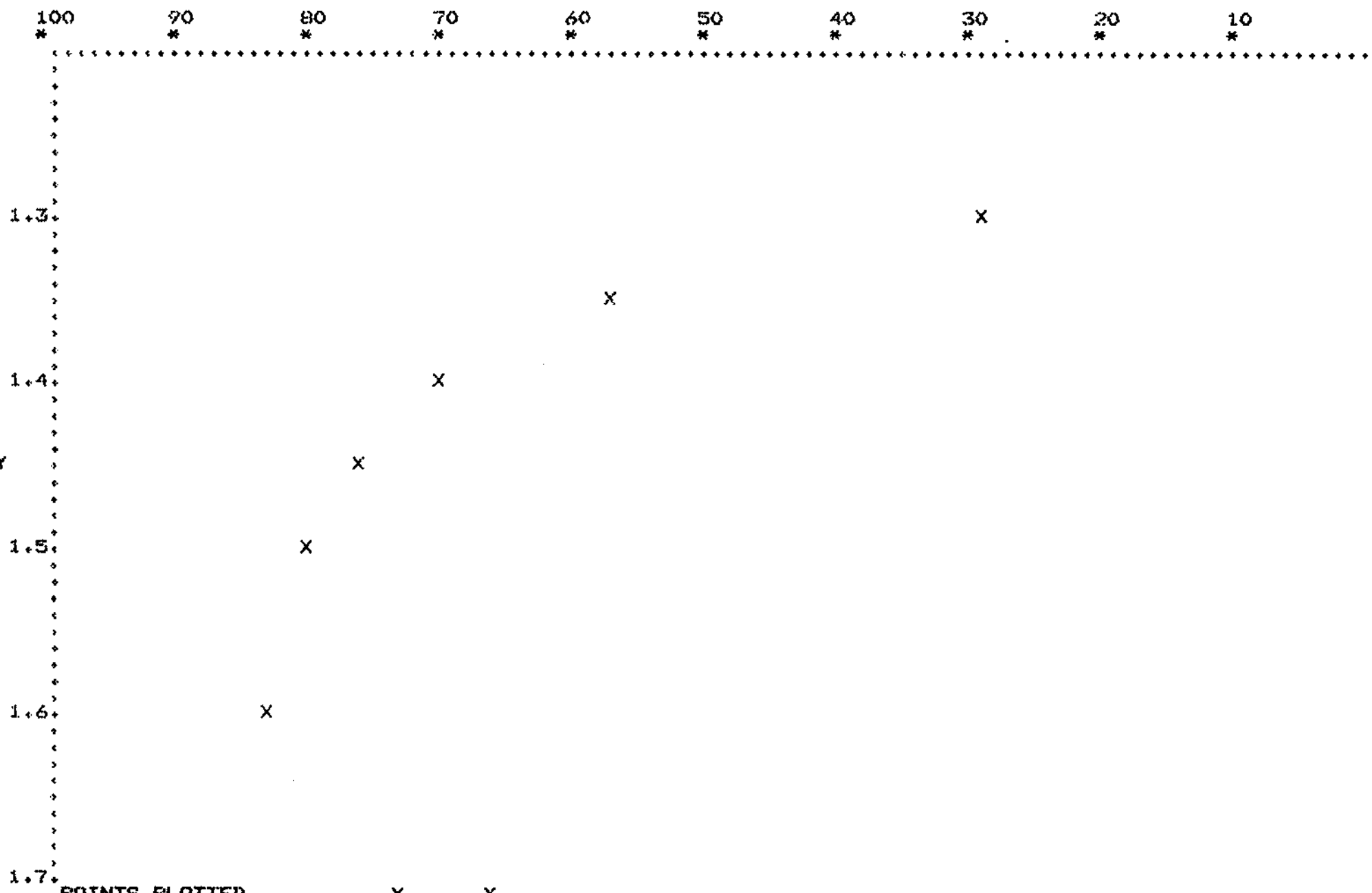
SIZE	WEIGHT(GMS)	WEIGHT(X)	ASH(X)
+28MESH	4798.	91.5	16.1
-28MESH	446.	8.5	7.6
FEED	5244.	100.0	15.4

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	5.20	90.85		7.73	8.51
PLUS 28	8.81	90.78	+1.60	83.06	91.49
COMBINED	8.50	90.78		90.78	100.00
FLOTATION	5.20	90.85		7.73	8.33
PLUS 28	9.35	92.95	+1.60	85.05	91.67
COMBINED	9.00	92.78		92.78	100.00
FLOTATION	5.20	90.85		7.73	8.17
PLUS 28	9.90	94.89	+1.60	86.82	91.83
COMBINED	9.50	94.55		94.55	100.00
FLOTATION	5.20	90.85		7.73	8.04
PLUS 28	10.45	96.59	+1.60	88.37	91.96
COMBINED	10.00	96.10		96.10	100.00



CUMULATIVE FLOATS WEIGHT PERCENT



SPECIFIC GRAVITY

1.3  
1.4  
1.5  
1.6  
1.7

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

POINTS PLOTTED

X	Y
29	10
57	15
70	20
76	25
80	30
83	40

COMPO NUMBER-- 57

DRILL HOLE NUMBER-- 1907

SEAM NUMBER-- 7 64950-57

\*\* NO FLOTATION RUNS \*\*

HEAD SAMPLE

WEIGHT X	ASSAY	
	ASH	FSI
100.0	11.0	7.0

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 ASH WT. %	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	282.	14.16	14.16	3.90	0.55	0.55	3.90	25.71	85.84	29.95	3.90	7.08	8.5
1.30-1.35	296.	14.86	29.02	7.90	1.17	1.73	5.95	24.54	70.98	34.57	7.90	21.59	5.5
1.35-1.40	336.	16.87	45.88	11.00	1.86	3.58	7.81	22.68	54.12	41.92	11.00	37.45	3.5
1.40-1.45	219.	10.99	56.88	15.60	1.72	5.30	9.31	20.97	43.12	48.63	15.60	51.38	1.0
1.45-1.50	111.	5.57	62.45	21.60	1.20	6.50	10.41	19.77	37.55	52.64	21.60	59.66	1.0
1.50-1.60	127.	6.38	68.83	27.40	1.75	8.25	11.98	18.02	31.17	57.80	27.40	65.64	1.0
1.60 SINK	621.	31.17	100.00	57.80	18.02	26.27	26.27	0.00	0.00	0.0	57.80	84.41	0.0

FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAF	RECOVERY AND ASH CALCULATIONS		FR		FRAI	FRI	AP
		A	R	FR	FAR			
0.0	0.0	4.0	14.8	0.1366	0.0055	0.0055	.137	4.0
0.0	0.0	6.0	29.5	0.2723	0.0163	0.0163	.272	6.0
0.0	0.0	8.0	47.5	0.4386	0.0351	0.0351	.439	8.0
0.0	0.0	10.0	60.6	0.5594	0.0559	0.0559	.559	10.0
0.0	0.0	12.0	68.9	0.6360	0.0763	0.0763	.636	12.0
0.0	0.0	14.0	76.1	0.7030	0.0984	0.0984	.703	14.0
0.0	0.0	16.0	82.5	0.7612	0.1218	0.1218	.761	16.0
0.0	0.0	18.0	87.8	0.8108	0.1459	0.1459	.811	18.0
0.0	0.0	20.0	92.2	0.8516	0.1703	0.1703	.852	20.0

COMPO NUMBER- 57

DRILL HOLE NUMBER- 1907

SEAM NUMBER- 64950-57

DATA

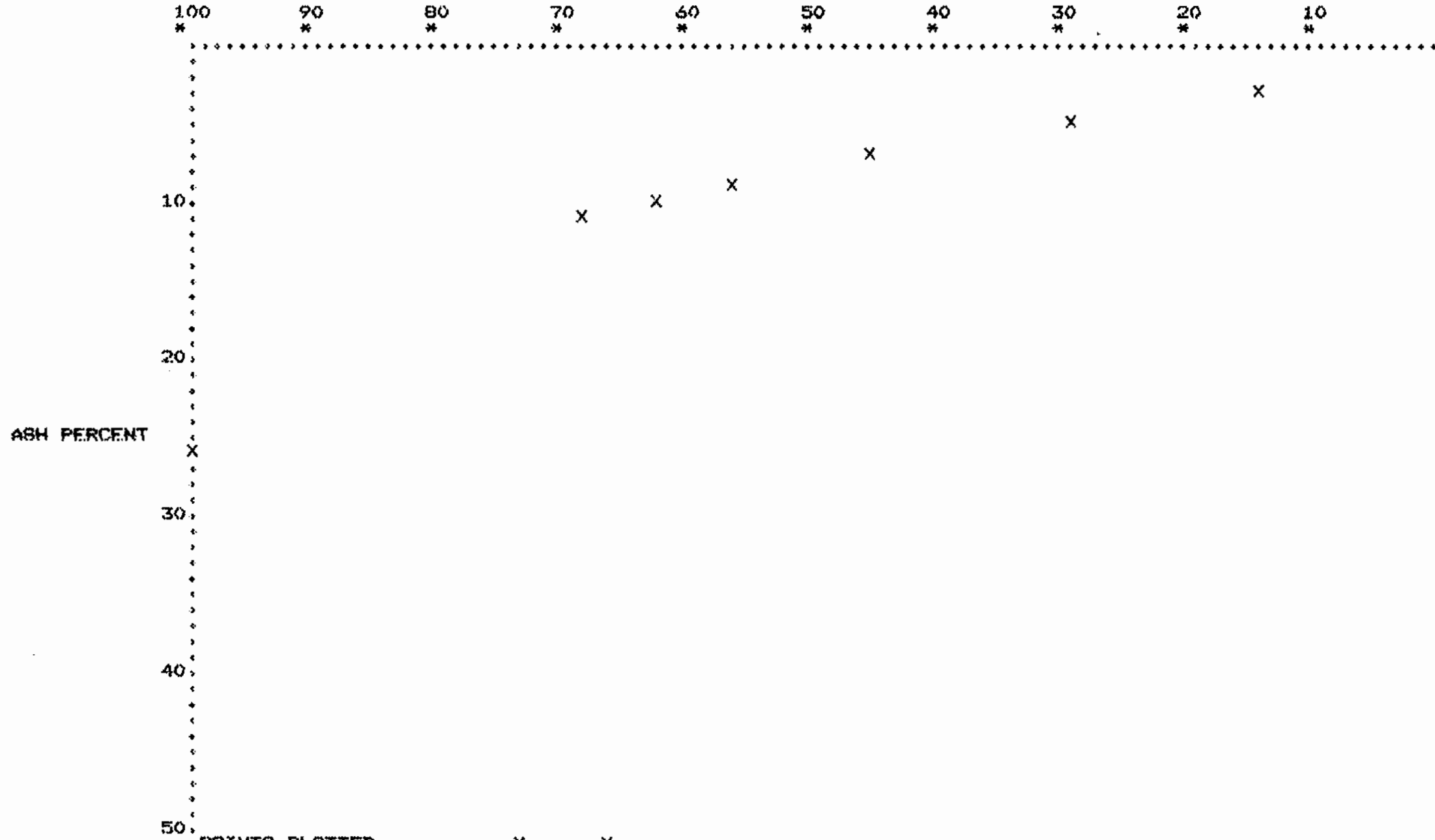
SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(X)	ASH(X)
+20MESH	2430.	92.3	26.3
-20MESH	202.	7.7	11.0
FEED	2632.	100.0	25.1

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 20 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	0.0	0.0		0.0	0.0
PLUS 20	9.21	56.23	1.45	51.92	100.00
COMBINED	8.50	51.92		51.92	100.00
FLOTATION	0.0	0.0		0.0	0.0
PLUS 20	9.75	59.31	1.47	54.76	100.00
COMBINED	9.00	54.76		54.76	100.00
FLOTATION	0.0	0.0		0.0	0.0
PLUS 20	10.29	61.96	1.49	57.20	100.00
COMBINED	9.50	57.20		57.20	100.00
FLOTATION	0.0	0.0		0.0	0.0
PLUS 20	10.83	64.30	1.52	59.37	100.00
COMBINED	10.00	59.37		59.37	100.00

CUMULATIVE FLOATS WEIGHT PERCENT



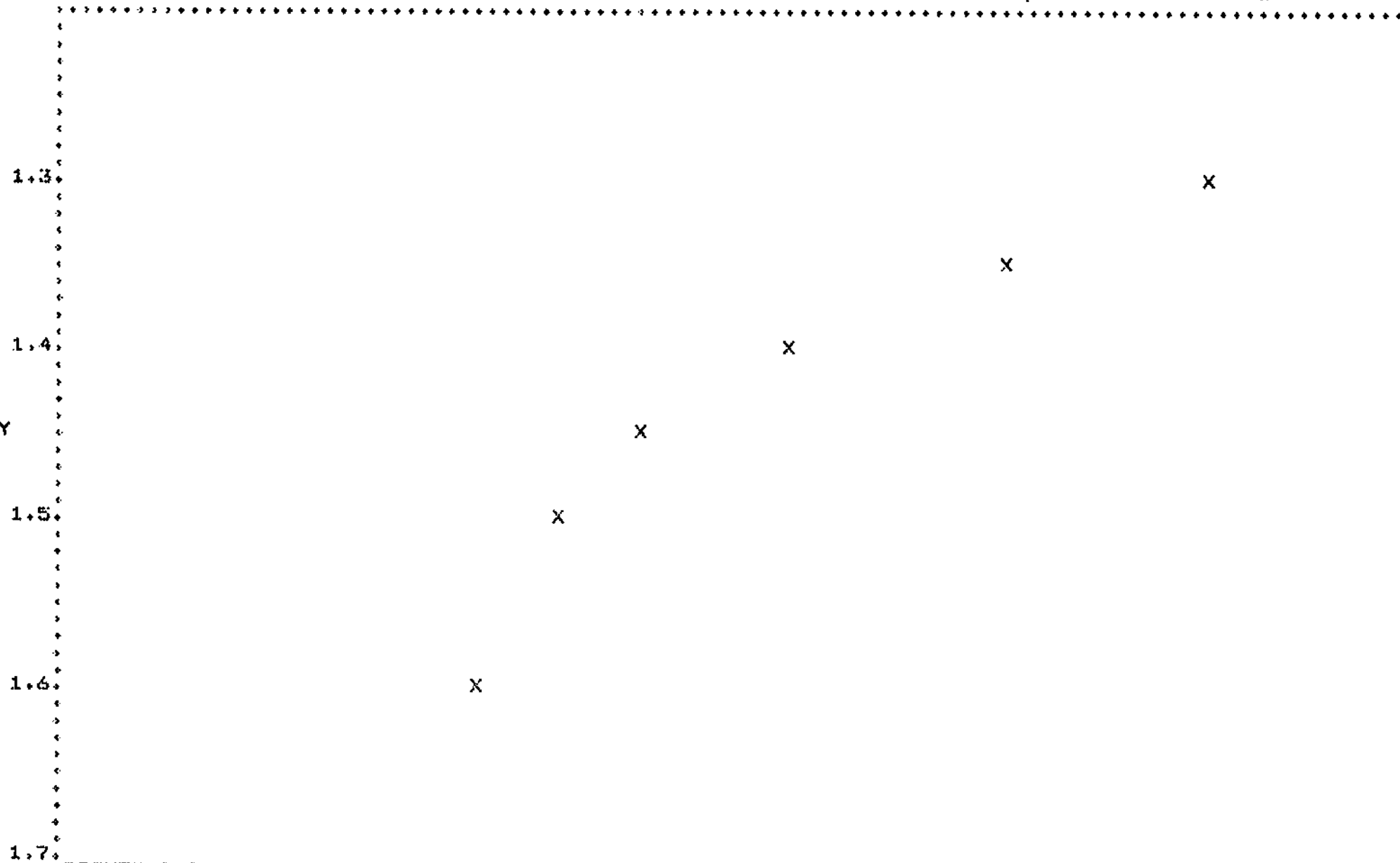
100 \*  
90 \*  
80 \*  
70 \*  
60 \*  
50 \*  
40 \*  
30 \*  
20 \*  
10 \*  
0 \*  
10  
20  
30  
40  
50

POINTS PLOTTED

X	Y
14	3
29	5
45	7
56	9
62	10
68	11
99	26

CUMULATIVE FLOATS WEIGHT PERCENT

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



SPECIFIC GRAVITY

POINTS PLOTTED

X	Y
14	10
29	15
45	20
56	25
62	30
68	40

COMPO NUMBER-- 58

DRILL. HOLE NUMBER-- 1907

SEAM NUMBER-- 64958-59

\*\* NO FLOTATION RUNS \*\*

HEAD SAMPLE

WEIGHT %	ASSAY	
	ASH	FSI
100.0	9.8	6.5

*part 5 upper*



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	89.	5.45	5.45	4.00	0.22	0.22	4.00	19.35	94.55	20.47	4.00	2.73	7.5
1.30-1.35	383.	23.45	28.90	7.00	1.64	1.86	6.43	17.71	71.10	24.91	7.00	17.18	2.0
1.35-1.40	528.	32.33	61.24	10.80	3.49	5.35	8.74	14.22	38.76	36.69	10.80	45.07	1.0
1.40-1.45	140.	8.57	69.81	15.90	1.36	6.71	9.62	12.86	30.19	42.59	15.90	65.52	1.5
1.45-1.50	106.	6.49	76.30	21.30	1.38	8.10	10.61	11.47	23.70	48.42	21.30	73.06	2.0
1.50-1.60	93.	5.70	82.00	27.30	1.55	9.65	11.77	9.92	18.00	55.10	27.30	79.15	1.0
1.60 SINK	294.	18.00	100.00	55.10	9.92	19.57	19.57	0.0	0.00	0.0	55.10	91.00	1.0

FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAF	RECOVERY		AND ASH CALCULATIONS		FRAI	FRI	AP
		A	R	FR	FAR			
0.0	0.0	4.0	5.5	0.0484	0.0019	0.0019	.048	4.0
0.0	0.0	6.0	23.9	0.2123	0.0127	0.0127	.212	6.0
0.0	0.0	8.0	51.1	0.4537	0.0363	0.0363	.454	8.0
0.0	0.0	10.0	72.6	0.6446	0.0645	0.0645	.645	10.0
0.0	0.0	12.0	83.0	0.7369	0.0884	0.0884	.737	12.0
0.0	0.0	14.0	90.7	0.8055	0.1128	0.1128	.805	14.0
0.0	0.0	16.0	96.1	0.8534	0.1365	0.1365	.853	16.0
0.0	0.0	18.0	99.2	0.8806	0.1585	0.1585	.881	18.0

COMPONENT NUMBER-- 58

DRILL HOLE NUMBER-- 1907

SEAM NUMBER-- 64958-59

DATA

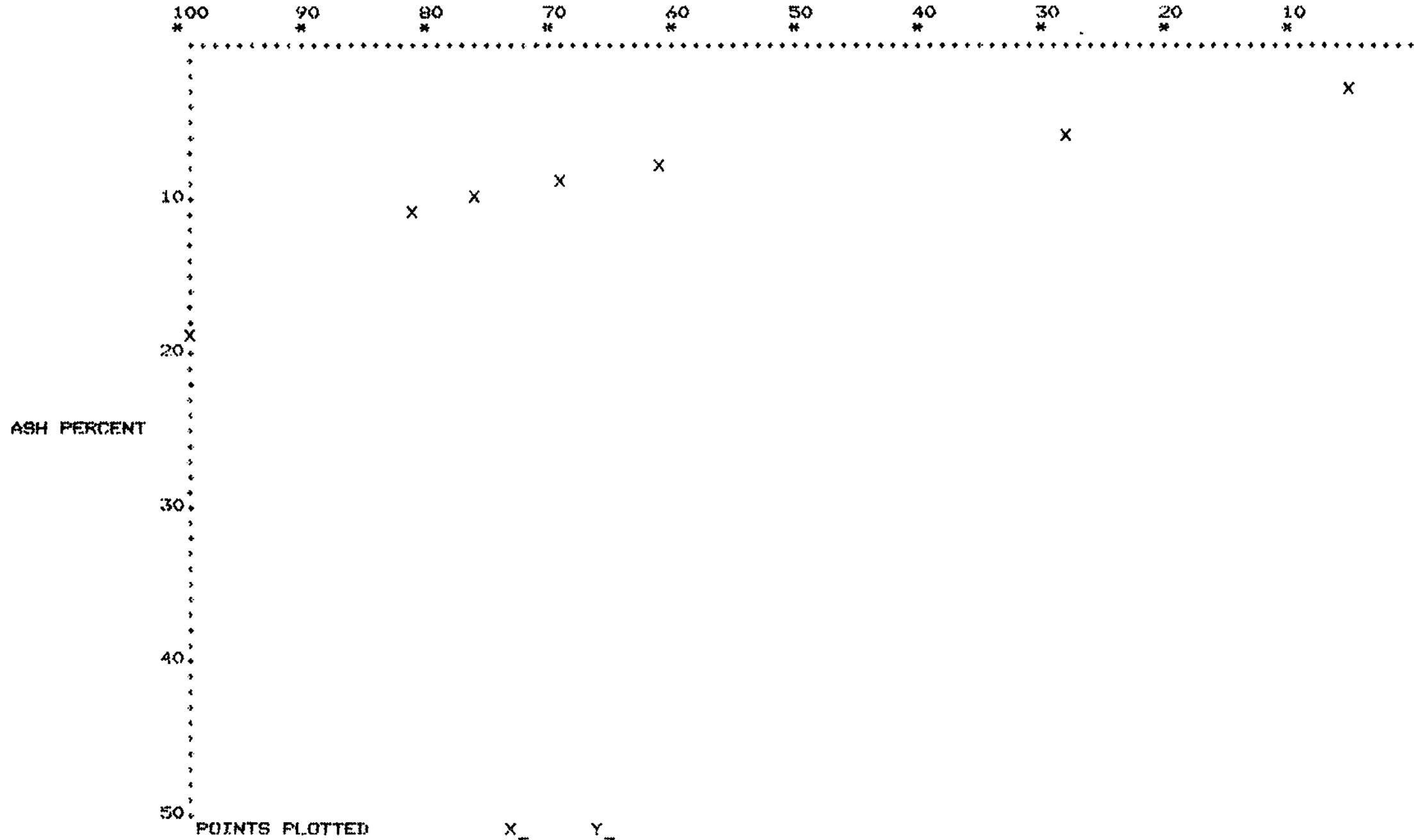
SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MESH	2038.	88.8	19.6
-28MESH	258.	11.2	9.8
FEED	2296.	100.0	18.5

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	9.58	69.49	1.45	61.68	100.00
COMBINED	8.50	61.68		61.68	100.00
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	10.14	73.55	1.48	65.28	100.00
COMBINED	9.00	65.28		65.28	100.00
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	10.70	76.79	1.51	68.16	100.00
COMBINED	9.50	68.16		68.16	100.00
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	11.27	79.68	1.56	70.72	100.00
COMBINED	10.00	70.72		70.72	100.00

CUMULATIVE FLOATS WEIGHT PERCENT



100  
\*

90  
\*

80  
\*

70  
\*

60  
\*

50  
\*

40  
\*

30  
\*

20  
\*

10  
\*

10

20

30

40

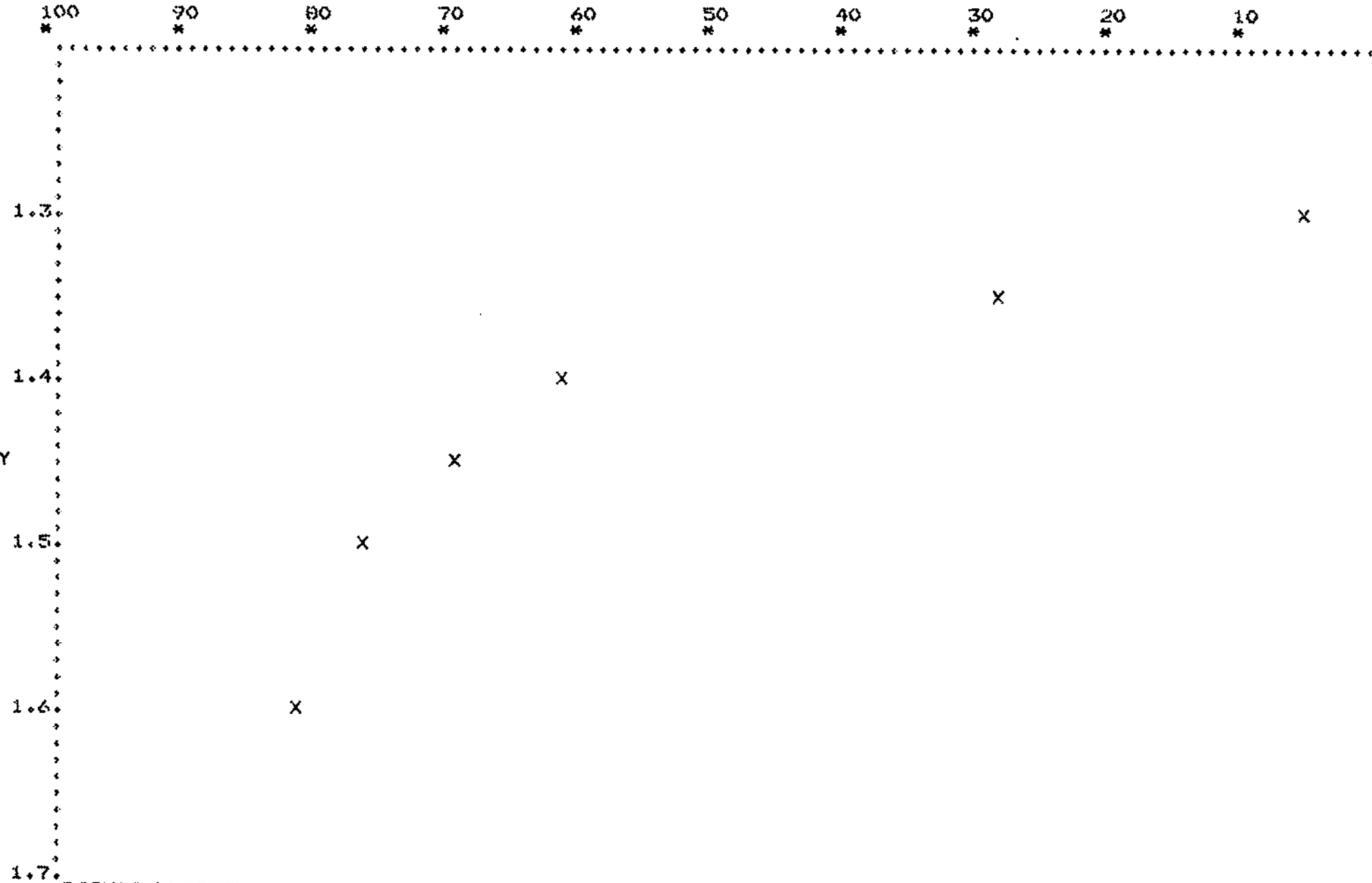
50

ASH PERCENT

POINTS PLOTTED

X	Y
5	3
28	5
61	8
69	9
76	10
81	11
99	19

CUMULATIVE FLOATS WEIGHT PERCENT



SPECIFIC GRAVITY

POINTS PLOTTED

X	Y
5	10
28	15
61	20
69	25
76	30
81	40

COMPO NUMBER- 59

DRILL. HOLE NUMBER- 1907

SEAM NUMBER- 64960-61

\*\* NO FLOTATION RUNS \*\*

HEAD SAMPLE

WEIGHT %	ASSAY	
	ASH	FSI
100.0	12.7	8.0

*part 50.*

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	149.	17.82	17.82	3.50	0.62	0.62	3.50	26.22	82.18	31.91	3.50	8.91	8.0
1.30-1.35	91.	10.89	28.71	7.80	0.85	1.47	5.13	25.37	71.29	35.59	7.80	23.27	7.0
1.35-1.40	65.	7.78	36.48	13.10	1.02	2.49	6.83	24.36	63.52	38.35	13.10	32.60	6.5
1.40-1.45	78.	9.33	45.81	17.20	1.60	4.10	8.94	22.75	54.19	41.99	17.20	41.15	4.0
1.45-1.50	99.	11.84	57.66	23.30	2.76	6.86	11.89	19.99	42.34	47.21	23.30	51.73	2.0
1.50-1.60	58.	6.94	64.59	28.90	2.01	8.86	13.72	17.99	35.41	50.80	28.90	61.12	1.0
1.60 SINK	296.	35.41	100.00	50.80	17.99	26.85	26.85	0.0	0.00	0.0	50.80	82.30	1.0

FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAF	RECOVERY AND ASH CALCULATIONS		FR	FAR	FRAI	FRI	AF
		A	R					
0.0	0.0	4.0	21.5	0.1969	0.0079	0.0079	.197	4.0
0.0	0.0	6.0	32.9	0.3014	0.0181	0.0181	.301	6.0
0.0	0.0	8.0	41.7	0.3819	0.0306	0.0306	.382	8.0
0.0	0.0	10.0	50.2	0.4594	0.0459	0.0459	.459	10.0
0.0	0.0	12.0	58.1	0.5316	0.0638	0.0638	.532	12.0
0.0	0.0	14.0	65.6	0.6006	0.0841	0.0841	.601	14.0
0.0	0.0	16.0	72.6	0.6642	0.1063	0.1063	.664	16.0
0.0	0.0	18.0	78.9	0.7224	0.1300	0.1300	.722	18.0
0.0	0.0	20.0	84.7	0.7752	0.1550	0.1550	.775	20.0



COMPO NUMBER-- 59

DRILL HOLE NUMBER-- 1907

SEAM NUMBER-- 64960-61

DATA

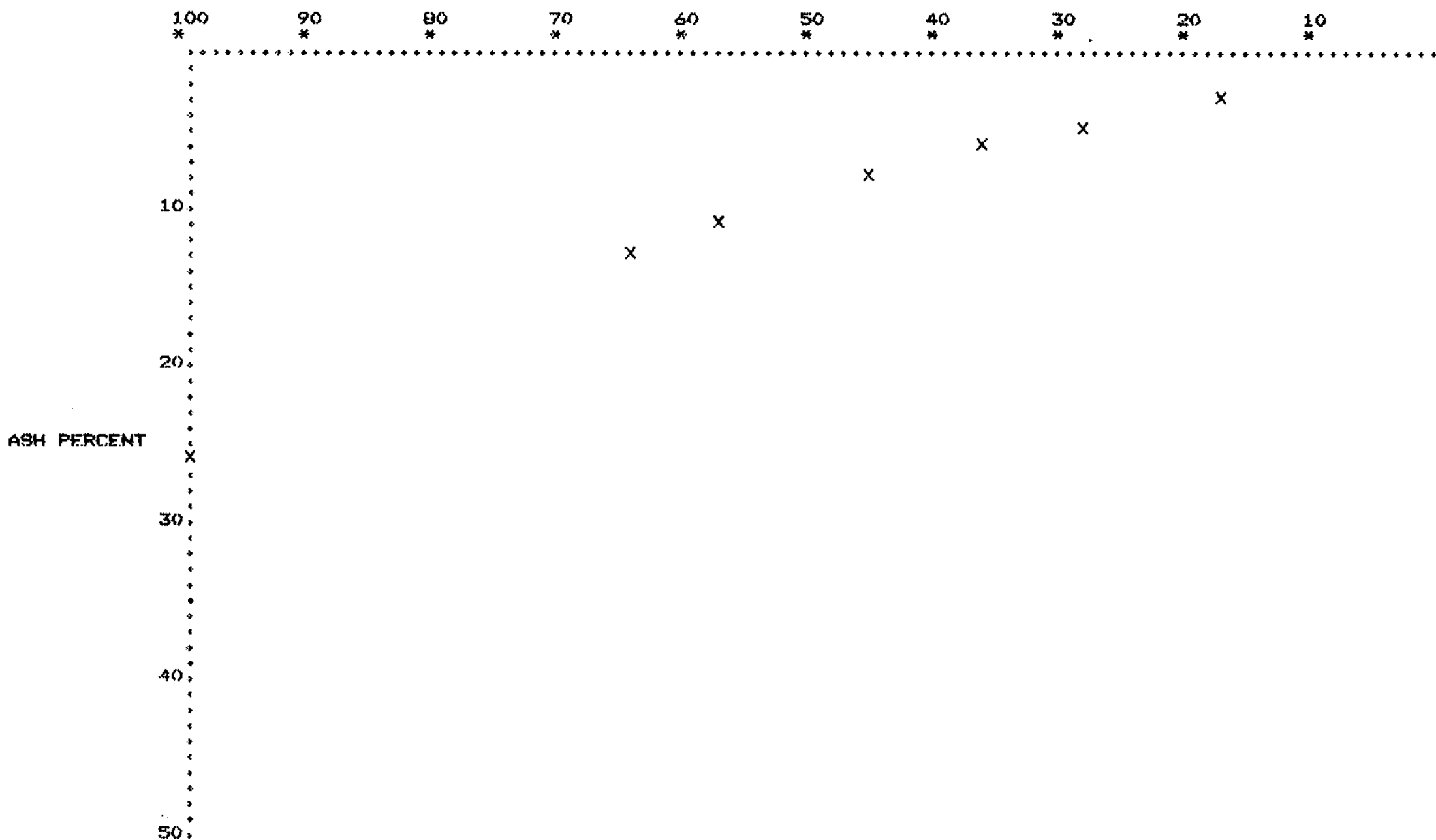
SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(X)
+28MESH	1274.	91.5	26.8
-28MESH	118.	8.5	12.7
FEED	1392.	100.0	25.6

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	9.29	47.26	1.45	43.26	100.00
COMBINED	8.50	43.26		43.26	100.00
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	9.83	49.51	1.46	45.32	100.00
COMBINED	9.00	45.32		45.32	100.00
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	10.38	51.73	1.47	47.34	100.00
COMBINED	9.50	47.34		47.34	100.00
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	10.93	53.91	1.48	49.34	100.00
COMBINED	10.00	49.34		49.34	100.00

CUMULATIVE FLOATS WEIGHT PERCENT

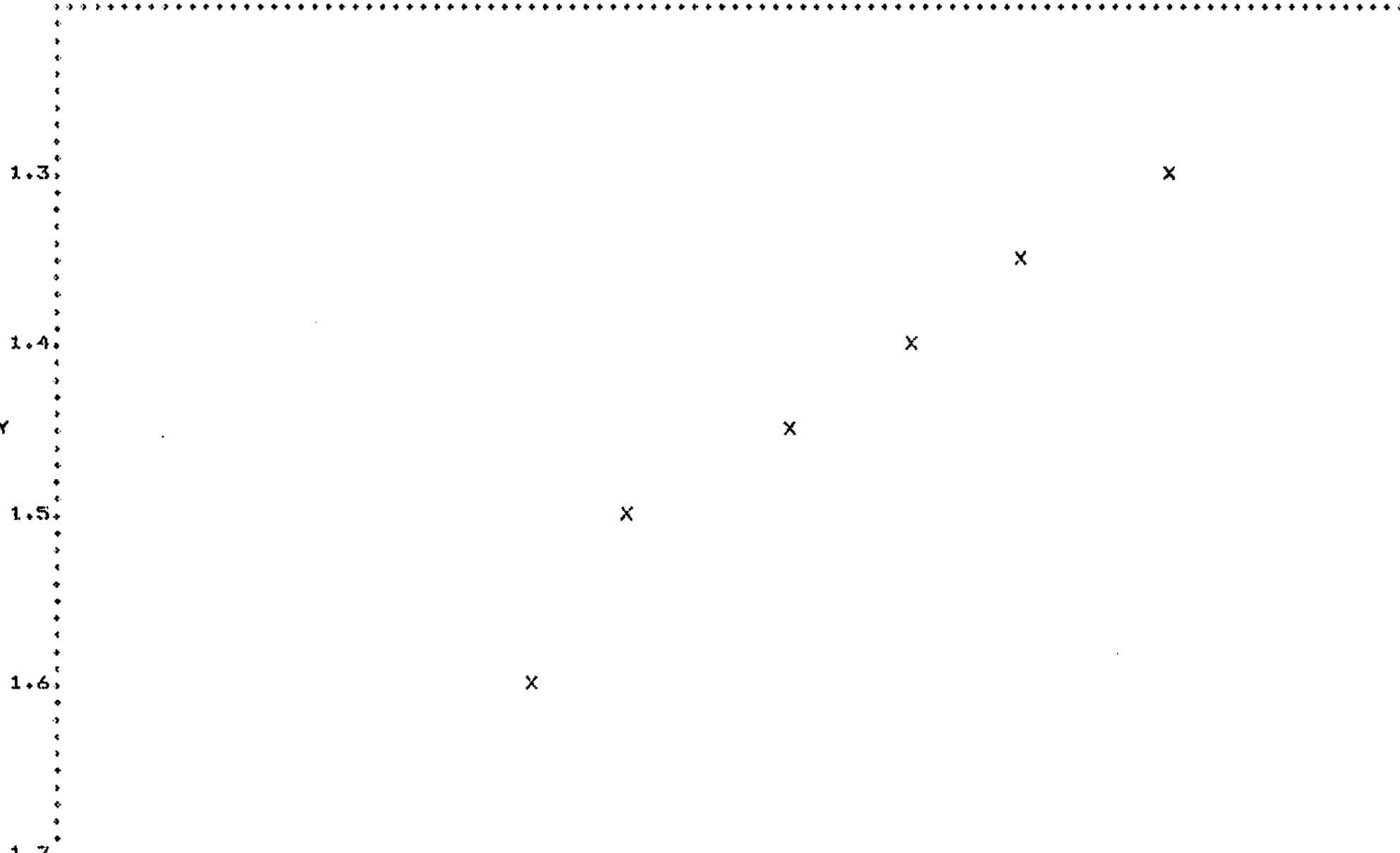


POINTS PLOTTED:

X	Y
17	3
28	5
36	6
45	8
57	11
64	13
99	26

CUMULATIVE FLOATS WEIGHT PERCENT

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



SPECIFIC GRAVITY

1.7,

POINTS PLOTTED

X	Y
17	10
28	15
36	20
45	25
57	30
64	40

COMPO NUMBER-- 60

DRILL HOLE NUMBER-- 1907

SEAM NUMBER-- 52 64962-65

\*\* NO FLOTATION RUNS \*\*  
HEAD SAMPLE

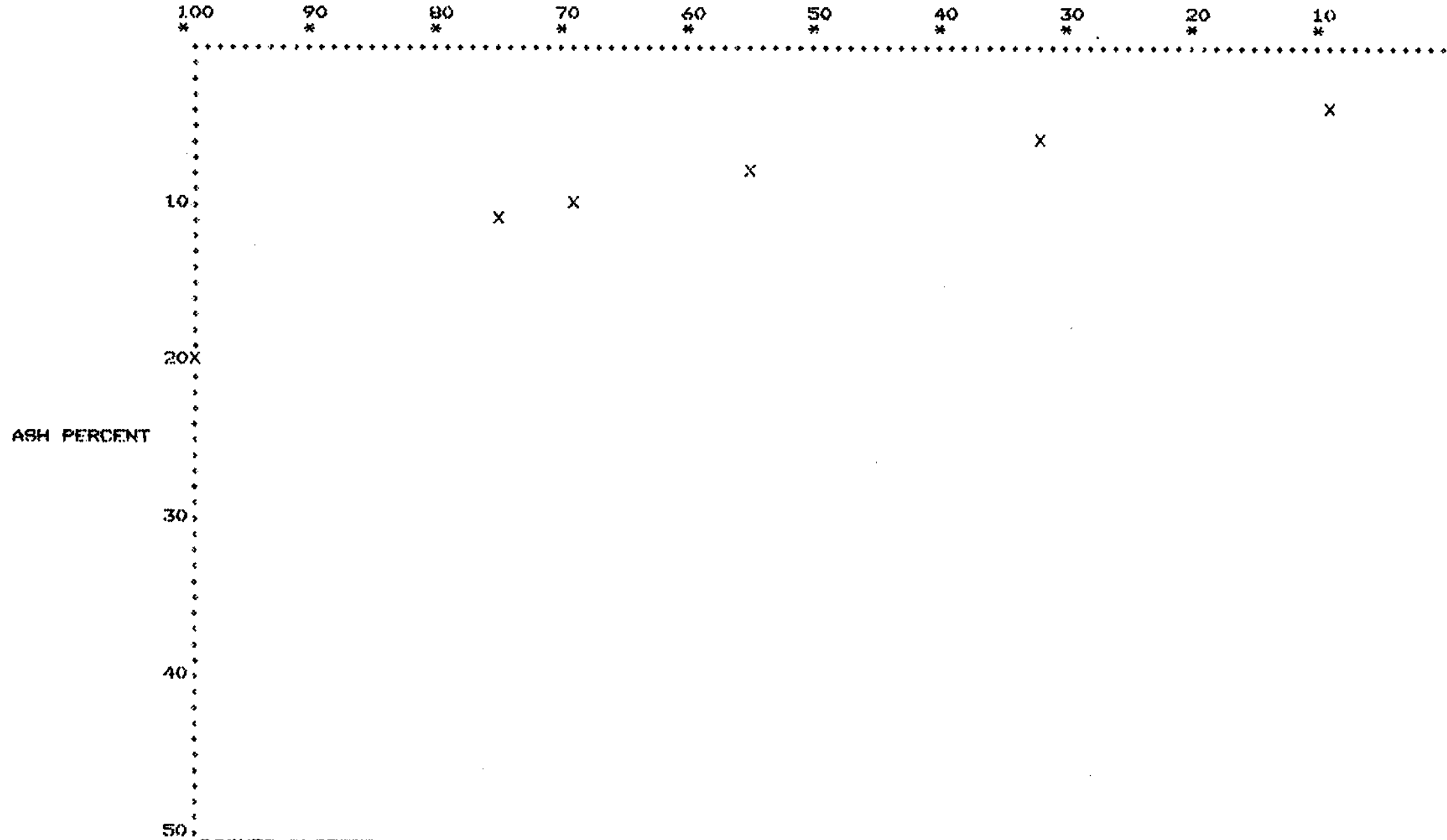
WEIGHT %	ASSAY	
	ASH	FSI
100.0	8.5	7.0

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	528.	21.42	21.42	2.90	0.62	0.62	2.90	19.24	78.58	24.48	2.90	10.71	7.5	
1.30-1.35	456.	18.50	39.92	6.30	1.17	1.79	4.48	18.07	60.08	30.08	6.30	30.67	2.0	
1.35-1.40	411.	16.67	56.59	10.00	1.67	3.45	6.10	16.40	43.41	37.79	10.00	48.26	1.0	
1.40-1.45	322.	13.06	69.66	15.40	2.01	5.47	7.85	14.39	30.34	47.42	15.40	63.12	1.0	
1.45-1.50	169.	6.86	76.51	20.30	1.39	6.86	8.96	13.00	23.49	55.34	20.30	73.08	1.0	
1.50-1.60	178.	7.22	83.73	28.40	2.05	8.91	10.64	10.95	16.27	67.30	28.40	80.12	1.0	
1.60 SINK	401.	16.27	100.00	67.30	10.95	19.86	19.86	0.0	0.00	0.0	67.30	91.87	0.5	

CUMULATIVE FLOATS WEIGHT PERCENT



POINTS PLOTTED

X	Y
9	4
33	6
55	8
69	10
75	11
78	11
99	20

FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAF	RECOVERY AND ASH CALCULATIONS		FR	FAR	FRAI	FRI	AF
		A	R					
0.0	0.0	4.0	34.6	0.3182	0.0127	0.0127	.318	4.0
0.0	0.0	6.0	55.6	0.5120	0.0307	0.0307	.512	6.0
0.0	0.0	8.0	70.7	0.6506	0.0521	0.0521	.651	8.0
0.0	0.0	10.0	81.3	0.7480	0.0748	0.0748	.748	10.0
0.0	0.0	12.0	88.6	0.8156	0.0979	0.0979	.816	12.0
0.0	0.0	14.0	94.3	0.8674	0.1214	0.1214	.867	14.0
0.0	0.0	16.0	98.0	0.9020	0.1443	0.1443	.902	16.0
0.0	0.0	18.0	99.9	0.9194	0.1655	0.1655	.919	18.0

COMPO NUMBER-- 60

DRILL HOLE NUMBER-- 1907

SEAM NUMBER-- 64962-65

## DATA

## SIZE DISTRIBUTION

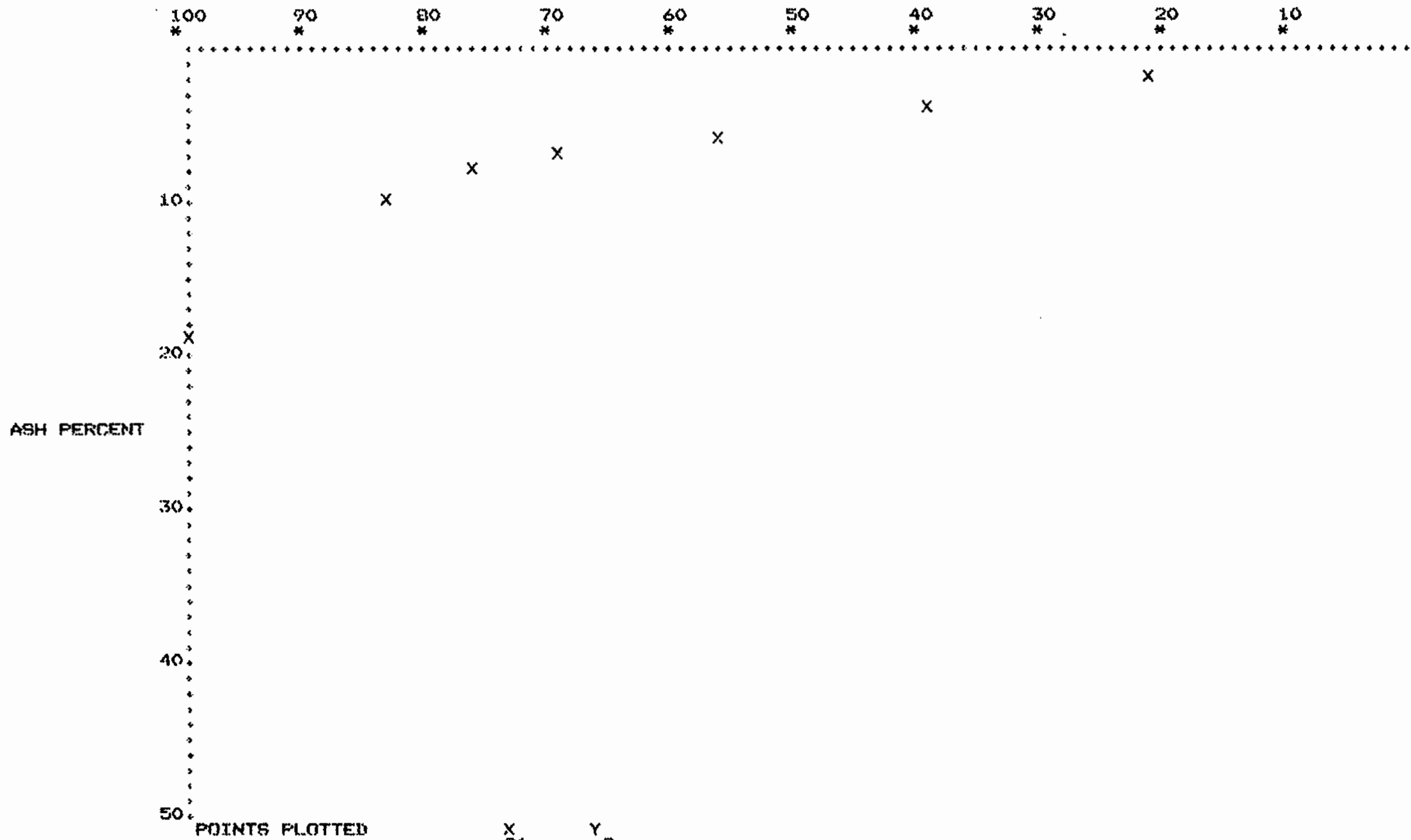
SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MESH	2897.	92.0	19.9
-28MESH	251.	8.0	8.5
FEED	3148.	100.0	19.0

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	9.24	77.87	1.52	71.66	100.00
COMBINED	8.50	71.66		71.66	100.00
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	9.78	80.35	1.55	73.95	100.00
COMBINED	9.00	73.95		73.95	100.00
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	10.32	82.57	1.58	75.99	100.00
COMBINED	9.50	75.99		75.99	100.00
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	10.87	84.61	+1.60	77.86	100.00
COMBINED	10.00	77.86		77.86	100.00



CUMULATIVE FLOATS WEIGHT PERCENT

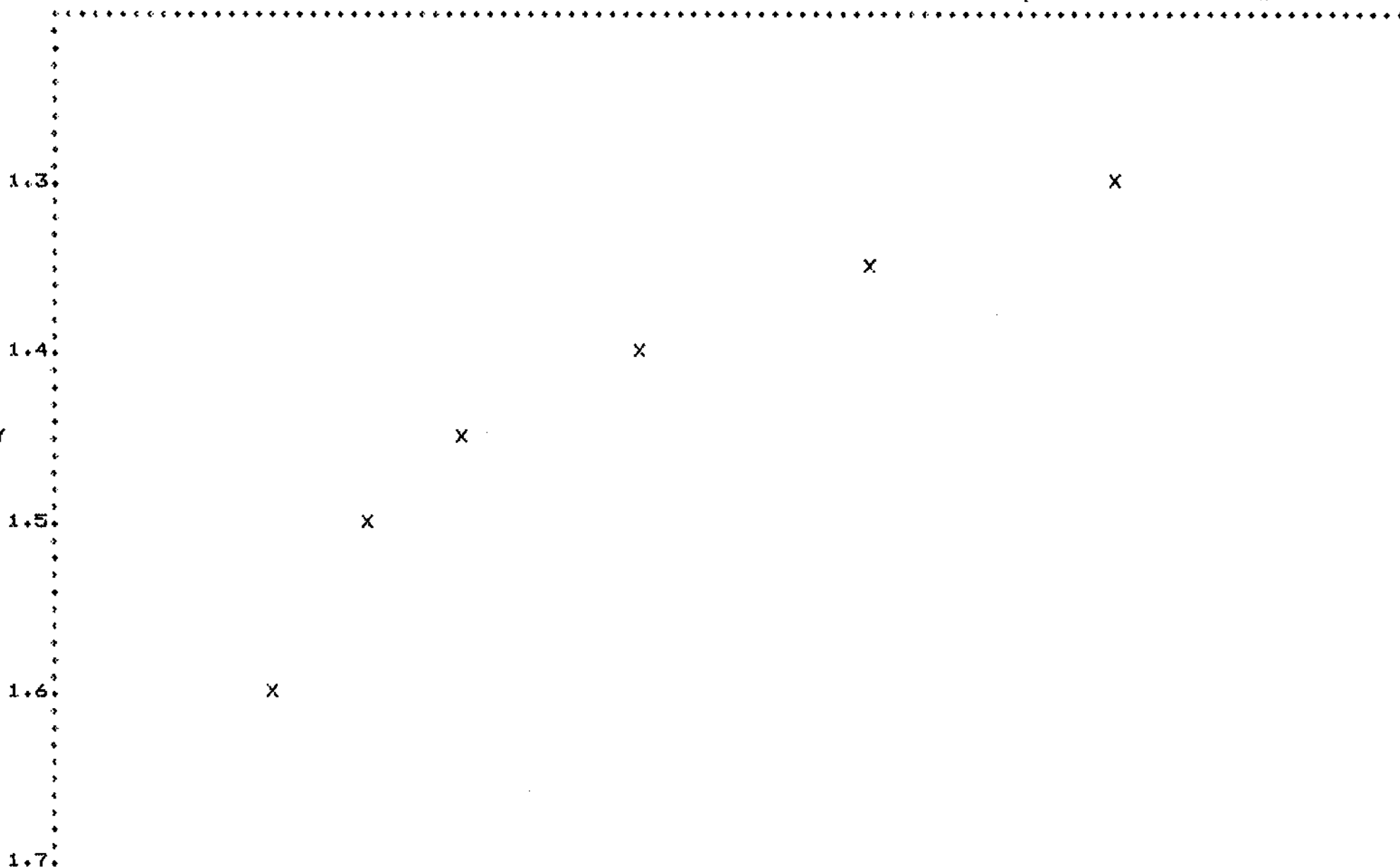


POINTS PLOTTED

X	Y
21	2
39	4
56	6
69	7
76	8
83	10
99	19

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
21	10
39	15
56	20
69	30
76	50
83	40

COMPO NUMBER- 61

DRILL HOLE NUMBER- 1907

SEAM NUMBER- 4u 64966-74

FLOTATION RESULTS

PRODUCT	KEROSENE WEIGHT (GMS)	.90 WEIGHT %	FROTHER .20		DISTRIBUTION	
			ASSAY ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	303.0	92.7	5.8	7.0	59.5	96.0
TAILS	24.0	7.3	49.9	0.5	40.5	4.0
CALC. HEAD	327.	100.0	9.0		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	CUM.SINKS WT. %	CUM.SINKS ASH %	ASH CONTENT	FLTS. YIELD	FSI
1.30	924.	23.23	23.23	2.70	0.63	0.63	2.70	15.03		76.77	19.58	2.70	11.62	7.5
1.30-1.35	1263.	31.76	54.99	6.00	1.91	2.53	4.61	13.12		45.01	29.16	6.00	39.11	2.0
1.35-1.40	572.	14.38	69.37	10.00	1.44	3.97	5.72	11.68		30.63	38.15	10.00	62.18	1.0
1.40-1.45	269.	6.76	76.14	15.70	1.06	5.03	6.61	10.62		23.86	44.52	15.70	72.76	1.0
1.45-1.50	172.	4.32	80.46	20.70	0.90	5.93	7.37	9.73		19.54	49.79	20.70	78.30	1.0
1.50-1.60	167.	4.20	84.66	26.00	1.09	7.02	8.29	8.64		15.34	56.30	26.00	82.56	1.0
1.60 SINK	610.	15.34	100.00	56.30	8.64	15.66	15.66	0.00		0.00	0.0	56.30	92.33	0.0

FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAF	RECOVERY		AND ASH CALCULATIONS		FRAI	FRI	AP
		A	R	FR	FAR			
0.0884	0.0051	4.0	45.9	0.4151	0.0166	0.0217	.504	4.3
0.0884	0.0051	6.0	71.8	0.6497	0.0390	0.0441	.738	6.0
0.0884	0.0051	8.0	83.5	0.7550	0.0604	0.0655	.843	7.8
0.0884	0.0051	10.0	91.1	0.8240	0.0824	0.0875	.912	9.6
0.0884	0.0051	12.0	96.4	0.8721	0.1047	0.1098	.961	11.4
0.0884	0.0051	14.0	99.4	0.8988	0.1258	0.1310	.987	13.3

COMPO NUMBER-- 61

DRILL HOLE NUMBER-- 1907

SEAM NUMBER-- 64966-74

DATA

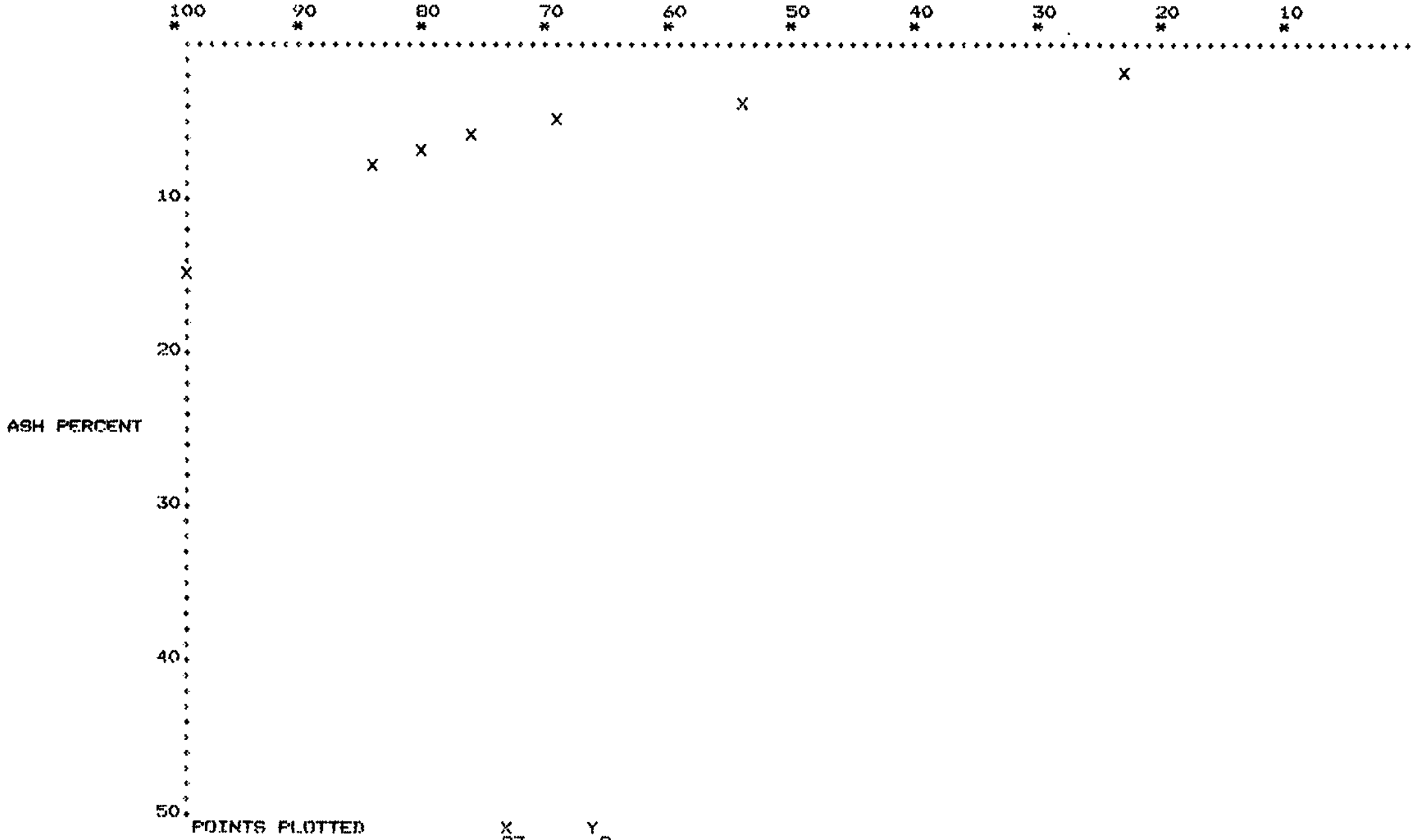
SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(X)	ASH(X)
+28MESH	4504.	90.5	15.7
-28MESH	475.	9.5	9.0
FEED	4979.	100.0	15.0

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	5.80	92.66		8.84	10.13
PLUS 28	8.78	86.69	+1.60	78.42	89.87
COMBINED	8.50	87.26		87.26	100.00
FLOTATION	5.80	92.66		8.84	9.91
PLUS 28	9.34	88.80	+1.60	80.33	90.09
COMBINED	9.00	89.17		89.17	100.00
FLOTATION	5.80	92.66		8.84	9.72
PLUS 28	9.89	90.73	+1.60	82.07	90.28
COMBINED	9.50	90.91		90.91	100.00
FLOTATION	5.80	92.66		8.84	9.56
PLUS 28	10.44	92.47	+1.60	83.65	90.44
COMBINED	10.00	92.49		92.49	100.00

CUMULATIVE FLOATS WEIGHT PERCENT



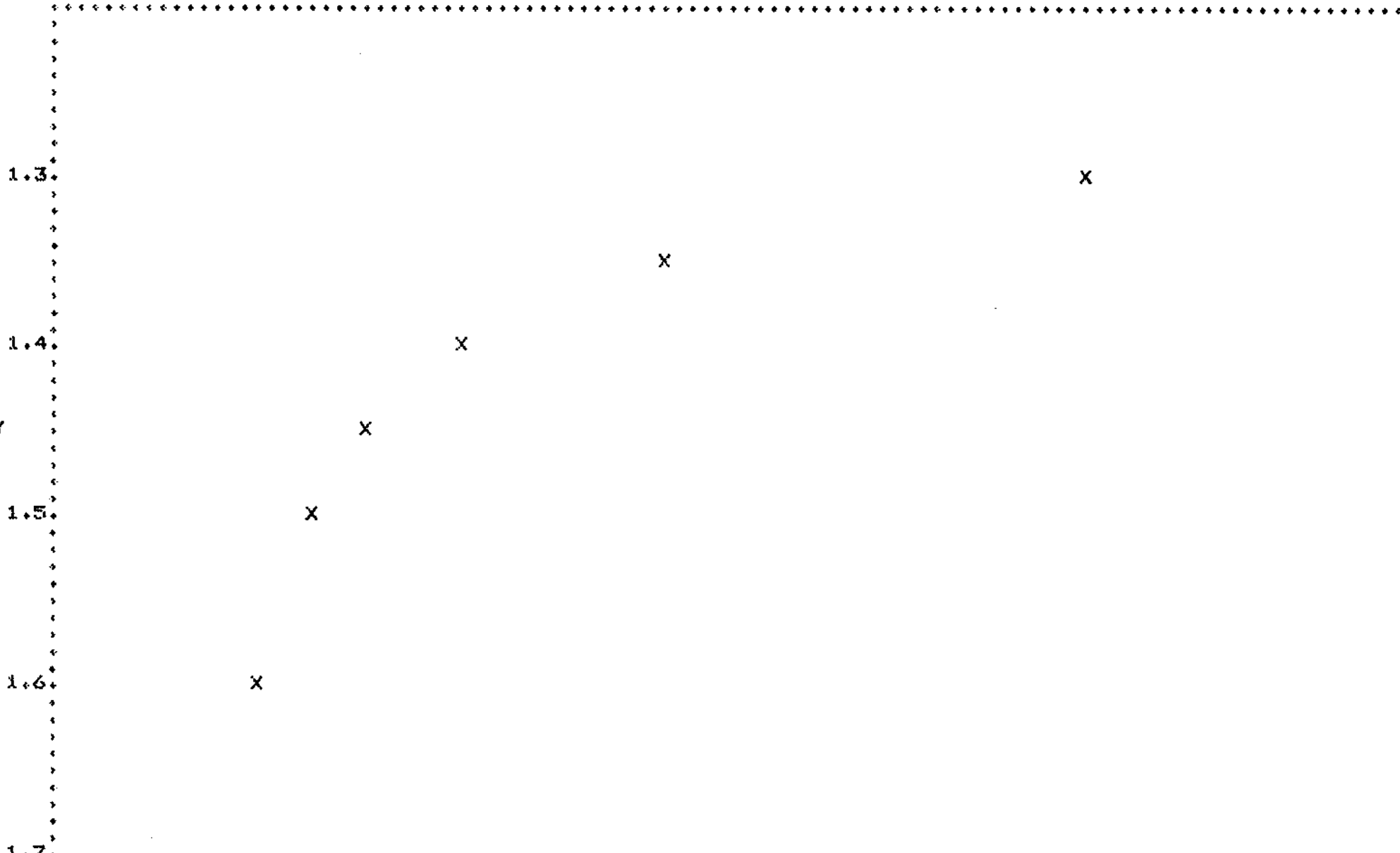
POINTS PLOTTED

X  
23  
54  
69  
76  
80  
84  
99

Y  
23  
35  
42  
48  
50

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
23	10
54	15
69	20
76	25
80	30
84	40



COMPO NUMBER- 62

DRILL HOLE NUMBER- 1907

SEAM NUMBER <sup>21</sup> *lower* 64977-82

FLOTATION RESULTS

PRODUCT	KEROSENE WEIGHT (GMS)	.90 WEIGHT %	FROTHER .20		DISTRIBUTION	
			ASSAY ASH	FSI	ASH	CLEAN COAL
CONCENTRATE	302.0	92.4	6.0	7.5	72.9	94.0
TAILS	25.0	7.6	27.0	2.0	27.1	6.0
CALC. HEAD	327.	100.0	7.6		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	437.	20.26	20.26	2.60	0.53	0.53	2.60	15.26		79.74	19.14	2.60	10.13	7.0
1.30-1.35	448.	20.77	41.03	5.60	1.16	1.69	4.12	14.10		58.97	23.91	5.60	30.64	2.5
1.35-1.40	392.	18.17	59.20	10.20	1.85	3.54	5.99	12.25		40.80	30.02	10.20	50.12	1.5
1.40-1.45	310.	14.37	73.57	15.60	2.24	5.79	7.86	10.01		26.43	37.86	15.60	66.39	1.0
1.45-1.50	194.	8.99	82.57	22.00	1.98	7.76	9.40	8.03		17.43	46.05	22.00	78.07	1.0
1.50-1.60	114.	5.29	87.85	30.30	1.60	9.37	10.66	6.43		12.15	52.90	30.30	85.21	1.0
1.60 SINK	262.	12.15	100.00	52.90	6.43	15.79	15.79	0.00		0.00	0.0	52.90	93.93	1.0

FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAF	RECOVERY AND ASH CALCULATIONS				FRAI	FRI	AP
		A	R	FR	FAR			
0.1275	0.0076	4.0	39.6	0.3414	0.0137	0.0213	.469	4.5
0.1275	0.0076	6.0	59.3	0.5114	0.0307	0.0383	.639	6.0
0.1275	0.0076	8.0	74.5	0.6421	0.0514	0.0590	.770	7.7
0.1275	0.0076	10.0	85.3	0.7349	0.0735	0.0811	.862	9.4
0.1275	0.0076	12.0	92.5	0.7972	0.0957	0.1033	.925	11.2
0.1275	0.0076	14.0	97.5	0.8403	0.1176	0.1253	.968	12.9

COMPONENT NUMBER- 62

DRILL HOLE NUMBER- 1907

SEAM NUMBER- 64977-82

DATA

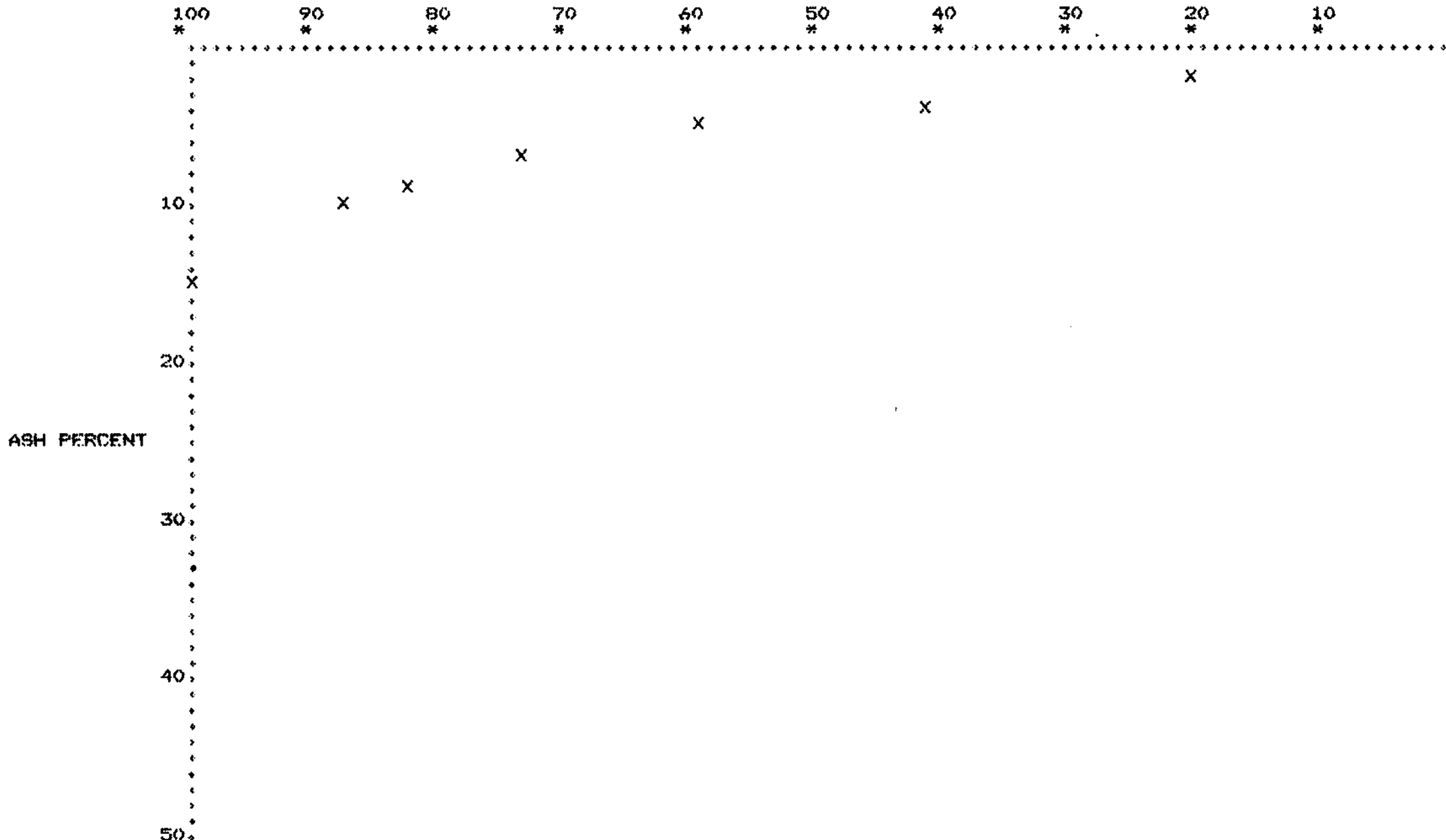
SIZE DISTRIBUTION

SIZE	WEIGHT (GMS)	WEIGHT (%)	ASH (%)
+28MESH	2186.	86.2	15.8
-28MESH	350.	13.8	7.6
FEED	2536.	100.0	14.7

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	6.00	92.35		12.75	15.61
PLUS 28	8.90	79.94	1.48	68.90	84.39
COMBINED	8.50	81.65		81.65	100.00
FLOTATION	6.00	92.35		12.75	15.13
PLUS 28	9.48	82.94	1.51	71.49	84.87
COMBINED	9.00	84.24		84.24	100.00
FLOTATION	6.00	92.35		12.75	14.74
PLUS 28	10.06	85.51	1.55	73.71	85.26
COMBINED	9.50	86.46		86.46	100.00
FLOTATION	6.00	92.35		12.75	14.42
PLUS 28	10.64	87.79	1.60	75.67	85.58
COMBINED	10.00	88.42		88.42	100.00

CUMULATIVE FLOATS WEIGHT PERCENT

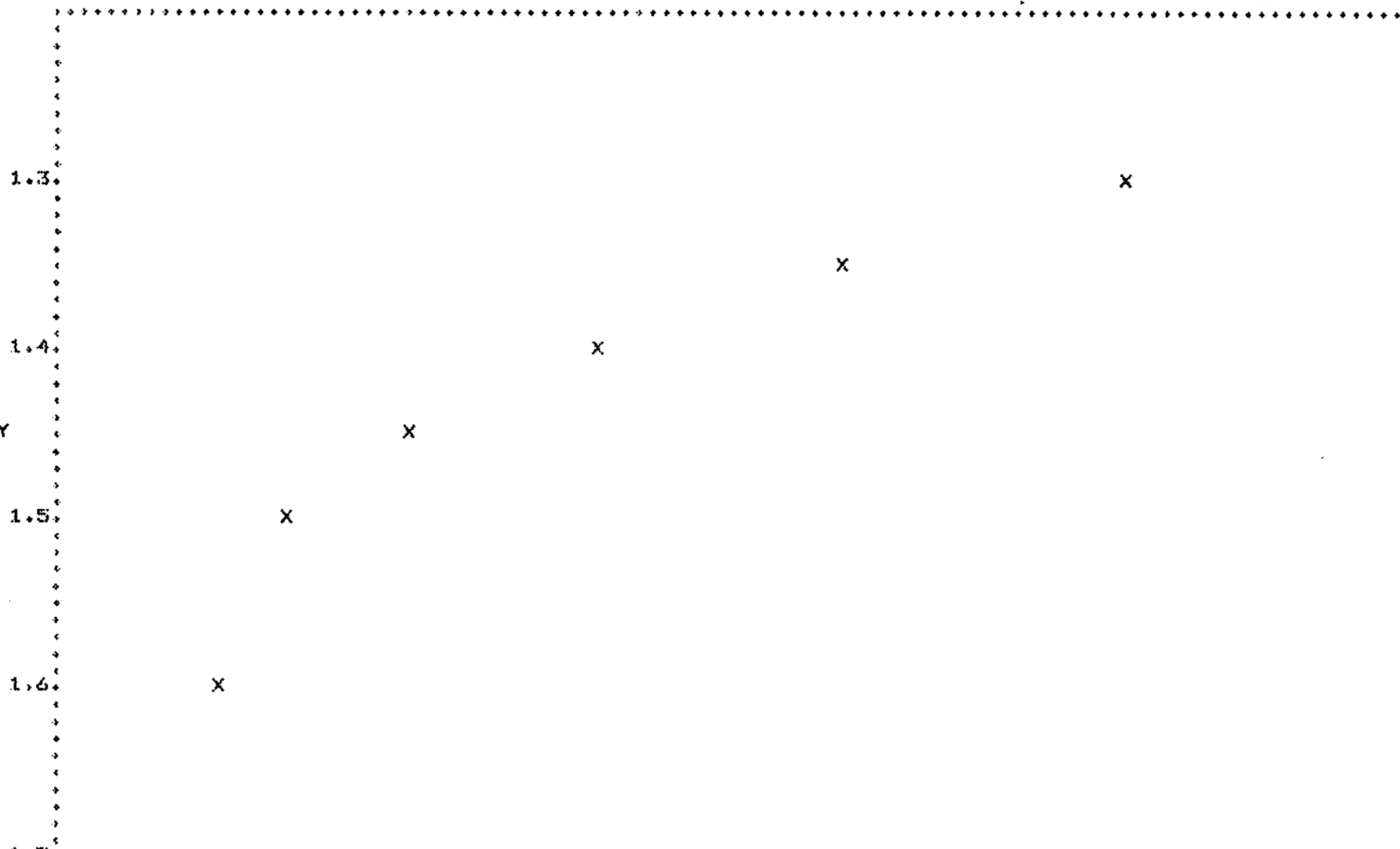


POINTS PLOTTED

X	Y
20	25
41	20
59	10
73	15
82	10
87	20
99	25

CUMULATIVE FLOATS WEIGHT PERCENT

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



SPECIFIC GRAVITY

1.7

POINTS PLOTTED

X	Y
20	10
41	15
59	20
73	25
82	30
87	40

COMPO NUMBER- 63

DRILL HOLE NUMBER- 1907

SEAM NUMBER- 64986-92

\*\* NO FLOTATION RUNS \*\*

HEAD SAMPLE

WEIGHT %	ASSAY	
	ASH	FSI
100.0	9.2	8.0

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	654.	54.18	54.18	3.20	1.73	1.73	3.20	11.71	45.82	25.57	3.20	27.09	8.5	
1.30-1.35	244.	20.22	74.40	6.90	1.39	3.13	4.21	10.32	25.60	40.31	6.90	64.29	7.5	
1.35-1.40	67.	5.55	79.95	13.10	0.73	3.86	4.82	9.59	20.05	47.84	13.10	77.17	7.0	
1.40-1.45	37.	3.07	83.02	17.20	0.53	4.38	5.28	9.06	16.98	53.37	17.20	81.48	6.5	
1.45-1.50	12.	0.99	84.01	22.70	0.23	4.61	5.49	8.84	15.99	55.28	22.70	83.51	5.0	
1.50-1.60	13.	1.08	85.09	27.30	0.29	4.90	5.76	8.55	14.91	57.30	27.30	84.55	4.5	
1.60 SINK	180.	14.91	100.00	57.30	8.55	13.45	13.45	0.00	0.00	0.0	57.30	92.54	1.0	



FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAF	RECOVERY AND ASH CALCULATIONS						
		A	R	FR	FAR	FRAI	FRI	AP
0.0	0.0	4.0	71.4	0.6258	0.0250	0.0250	.626	4.0
0.0	0.0	6.0	86.0	0.7536	0.0452	0.0452	.754	6.0
0.0	0.0	8.0	92.4	0.8101	0.0648	0.0648	.810	8.0
0.0	0.0	10.0	96.9	0.8494	0.0849	0.0849	.849	10.0
0.0	0.0	12.0	99.4	0.8714	0.1046	0.1046	.871	12.0

COMPO NUMBER-- 63

DRILL HOLE NUMBER-- 1907

SEAM NUMBER-- 64986-92

## DATA

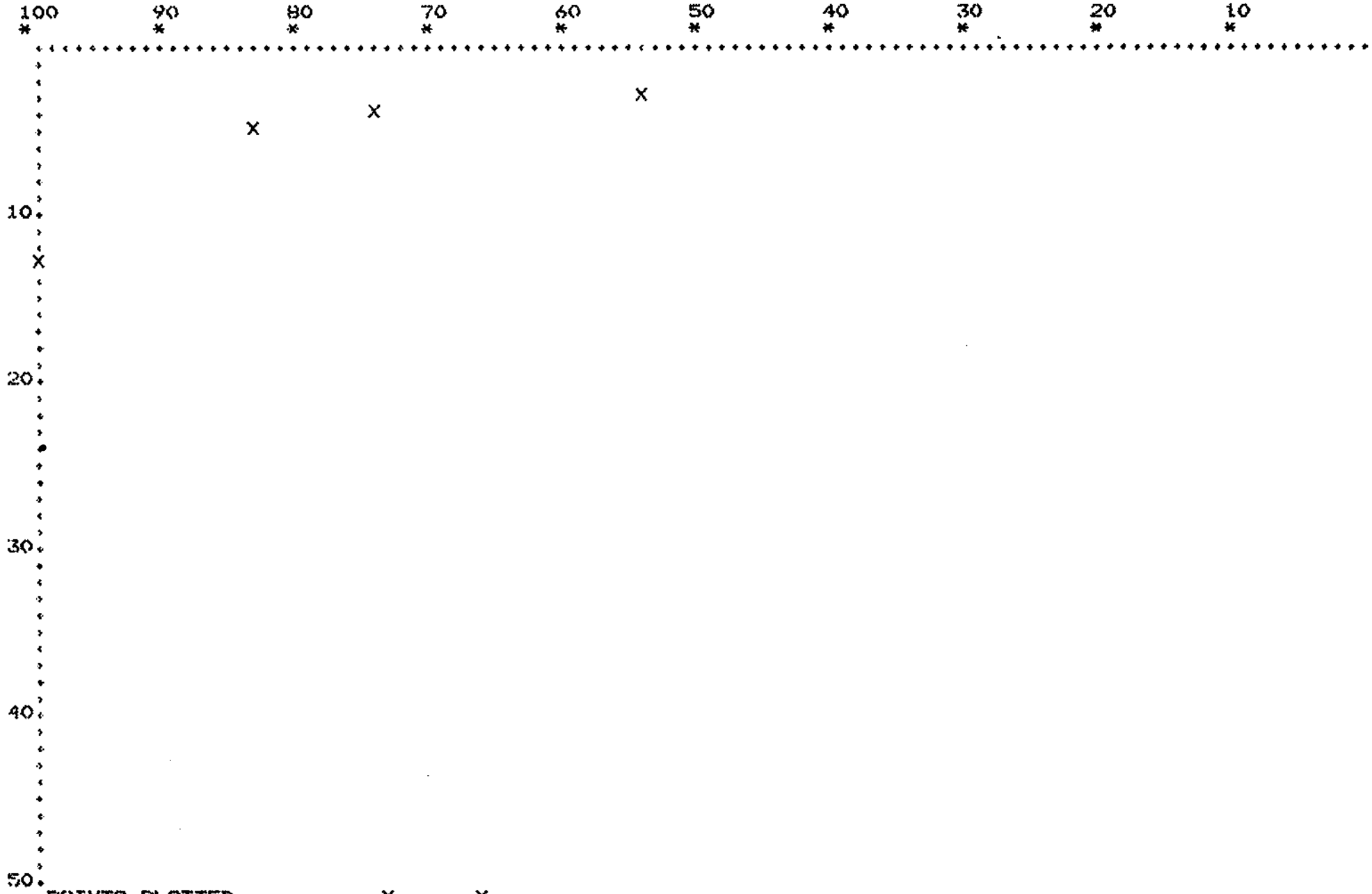
## SIZE DISTRIBUTION

SIZE	WEIGHT (GMS)	WEIGHT (%)	ASH (%)
+28MESH	1610.	87.6	13.4
-28MESH	227.	12.4	9.2
FEED	1837.	100.0	12.9

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	9.70	96.36	+1.60	84.46	100.00
COMBINED	8.50	84.46		84.46	100.00
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	10.27	97.36	+1.60	85.33	100.00
COMBINED	9.00	85.33		85.33	100.00
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	10.84	98.21	+1.60	86.07	100.00
COMBINED	9.50	86.07		86.07	100.00
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	11.41	98.89	+1.60	86.67	100.00
COMBINED	10.00	86.67		86.67	100.00

CUMULATIVE FLOATS WEIGHT PERCENT

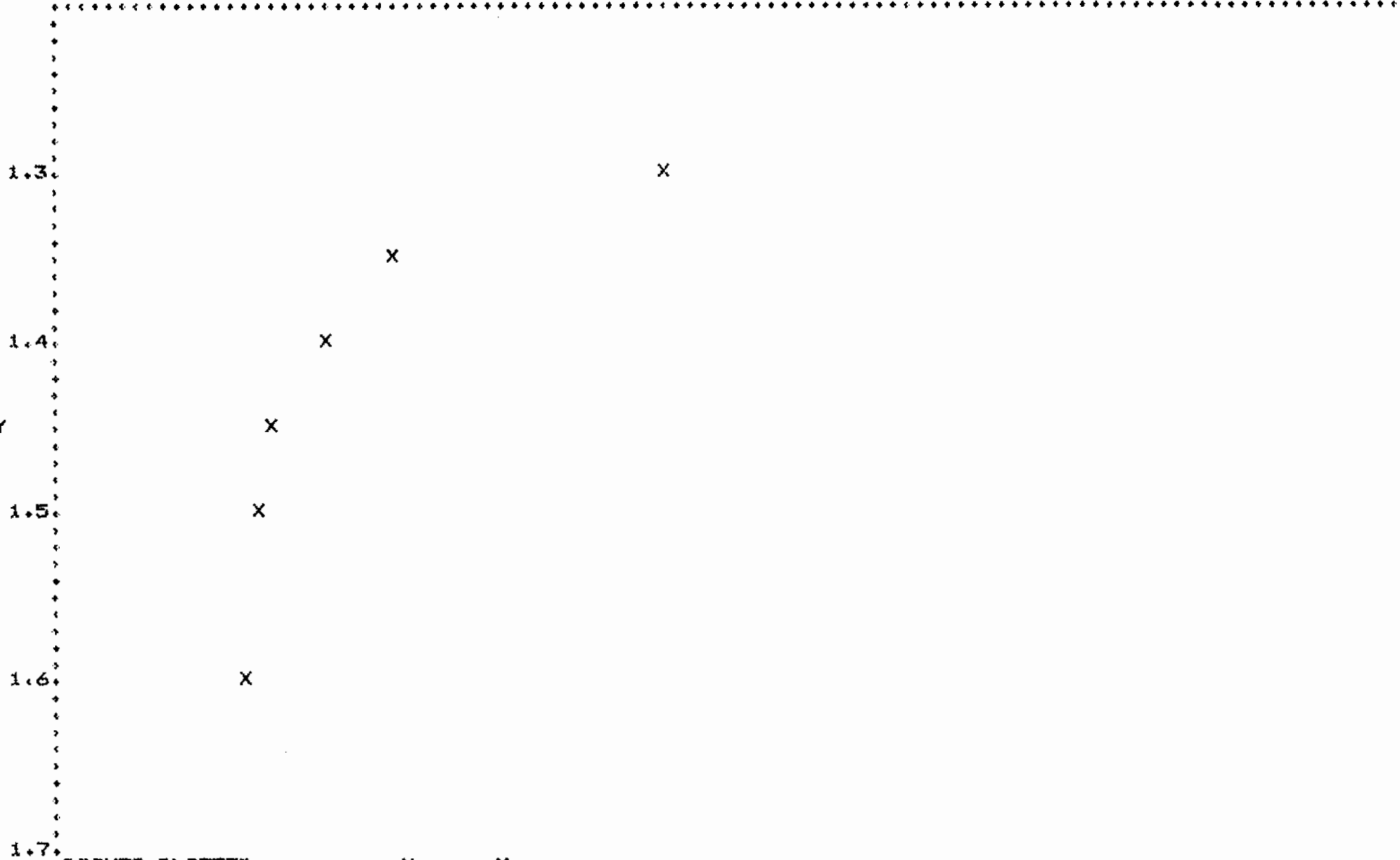


POINTS PLOTTED

X	Y
54	24
74	24
79	24
83	24
84	24
85	24
99	16

CUMULATIVE FLOATS WEIGHT PERCENT

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



SPECIFIC GRAVITY

POINTS PLOTTED

X	Y
54	10
74	15
79	20
83	25
84	30
85	40

COMPO NUMBER-- 64

DRILL HOLE NUMBER-- 1907

SEAM NUMBER-- / 64993-96

\*\* NO FLOTATION RUNS \*\*

HEAD SAMPLE

WEIGHT %	ASSAY	
	ASH	FSI
100.0	8.8	8.0

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	146.	9.67	9.67	4.20	0.41	0.41	4.20	19.81		90.33	21.93	4.20	4.83	8.5
1.30-1.35	341.	22.58	32.25	7.80	1.76	2.17	6.72	18.05		67.75	26.64	7.80	20.96	7.5
1.35-1.40	358.	23.71	55.96	11.40	2.70	4.87	8.70	15.35		44.04	34.85	11.40	44.11	5.0
1.40-1.45	197.	13.05	69.01	16.20	2.11	6.98	10.12	13.24		30.99	42.70	16.20	62.48	3.0
1.45-1.50	102.	6.75	75.76	22.70	1.53	8.52	11.24	11.70		24.24	48.28	22.70	72.38	2.5
1.50-1.60	41.	2.72	78.48	26.70	0.72	9.24	11.78	10.98		21.52	51.00	26.70	77.12	2.0
1.60 SINK	325.	21.52	100.00	51.00	10.98	20.22	20.22	0.0		0.00	0.0	51.00	89.24	1.0

FOR OPTIMUM RECOVERIES

TABLE 2

FFRF	FFRFAF	RECOVERY AND ASH CALCULATIONS						
		A	R	FR	FAR	FRAI	FRI	AP
0.0	0.0	4.0	8.2	0.0754	0.0030	0.0030	.075	4.0
0.0	0.0	6.0	24.9	0.2282	0.0137	0.0137	.228	6.0
0.0	0.0	8.0	47.6	0.4359	0.0349	0.0349	.436	8.0
0.0	0.0	10.0	68.1	0.6231	0.0623	0.0623	.623	10.0
0.0	0.0	12.0	79.6	0.7282	0.0874	0.0874	.728	12.0
0.0	0.0	14.0	88.0	0.8058	0.1128	0.1128	.806	14.0
0.0	0.0	16.0	94.3	0.8628	0.1380	0.1380	.863	16.0
0.0	0.0	18.0	98.2	0.8991	0.1618	0.1618	.899	18.0
0.0	0.0	20.0	99.9	0.9149	0.1830	0.1830	.915	20.0

COMPO NUMBER-- 64

DRILL HOLE NUMBER-- 1907

SEAM NUMBER-- 64993-96

## DATA

## SIZE DISTRIBUTION

SIZE	WEIGHT(GMS)	WEIGHT(%)	ASH(%)
+28MESH	1946.	91.5	20.2
--28MESH	180.	8.5	8.8
FEED	2126.	100.0	19.3

TABLE 3

AREA	% ASH IN PRODUCT	OPTIMUM RECOVERY	PLUS 28 S.G.	% FEED AS PRODUCT	% OF PRODUCT
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	9.29	61.84	1.42	56.60	100.00
COMBINED	8.50	56.60		56.60	100.00
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	9.83	66.70	1.44	61.05	100.00
COMBINED	9.00	61.05		61.05	100.00
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	10.38	70.79	1.46	64.80	100.00
COMBINED	9.50	64.80		64.80	100.00
FLOTATION	0.0	0.0		0.0	0.0
PLUS 28	10.92	74.11	1.48	67.84	100.00
COMBINED	10.00	67.84		67.84	100.00



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
9	10
32	15
55	20
69	25
75	30
78	40