

PR- SAXON 72 (4)A-1

EXPLORATION RESULTS: SAXON COAL
LICENSES
1483-1535 incl.
NOVEMBER 1, 1971 to SEPTEMBER 30, 1972

APPENDIX I

ANALYSIS OF COAL INTERSECTION
FROM SAXON DIAMOND DRILLING.

624

3/4

DENISON MINES LTD.

Drill Hole #SD-7101

Footage: 652.0' - 658.7' (D300)

CONFIDENTIAL

T A B L E 1: Raw Sample Analysis

Ash	47.74%
Volatile Matter	14.01%
Residual Moisture	0.88%
Fixed Carbon	37.37%
F.S.I.	3½
B.T.U./lb.	7,150
Sulphur	0.56%

March 14, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole No. SD-7101

Footage: 652.0' - 658.7' (D300)

T A B L E 2: Size Consist of Head Sample

	<u>Weight %</u>
+28 Mesh	70.93
28 x 100 Mesh	19.02
-100 Mesh	<u>10.05</u>
Total	<u>100.00</u>

March 14, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7101

Footage: 652.0' - 658.7' (D300).

T A B L E 3: Head Analysis of +28 Mesh

Ash	55.71%
Volatile Matter	12.88%
Residual Moisture	0.84%
Fixed Carbon	30.57%
F.S.I.	1

March 13, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7101

Footage: 652.0' - 658.7' (D300)

T A B L E 4: Weight % and Proximate Analysis of Specific Gravity Fractions: +28 Mesh

Sp. Gr.	Wt. %	Ash %	V.M. %	R.M. %	F.C. %
- 1.30	19.48	2.87	22.88	0.97	73.28
1.30 - 1.35	4.50	6.15	19.74	0.96	73.15
1.35 - 1.40	2.76	9.16	18.15	0.90	71.79
1.40 - 1.45	1.85	15.83	17.82	0.91	65.44
1.45 - 1.50	1.45	22.34	17.31	0.94	59.41
1.50 - 1.60	1.75	28.47	16.94	0.95	53.64
1.60 - 1.70	3.14	36.55	15.41	0.97	47.07
1.70 - 1.80	2.13	42.89	14.20	0.95	41.96
+ 1.80	62.94	81.78	8.61	0.98	8.63
Total	100.00	55.74	12.93	0.97	30.36

March 13, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7101

Footage: 562,0' 568,7' (D300)

T A B L E 5: Weight %, Proximate Analysis and Free Swelling
Index of Cumulative Floats: +28 Mesh

Sp. Gr.	Wt. %	Ash %	V.M. %	R.M. %	F.C. %	F.S.I.*
- 1.30	19.48	2.87	22.88	0.97	73.28	9+
- 1.35	23.98	3.49	22.29	0.97	73.25	9+
- 1.40	26.74	4.07	21.86	0.96	73.11	9+
- 1.45	28.59	4.83	21.60	0.96	72.61	9
- 1.50	30.04	5.68	21.39	0.96	71.97	9
- 1.60	31.79	6.93	21.15	0.96	70.96	9
- 1.70	34.93	9.59	20.63	0.96	68.82	9
- 1.80	37.06	11.51	20.26	0.96	67.27	8½
Total	100.00	55.74	12.93	0.97	30.36	1

March 13, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7101

Footage: 562.0' - 568.7' (D300)

T A B L E 6: Washability Data: +28 Mesh

Specific Gravity	Fractional		Cumulative				Elementary Ash	
	Wt. %	Ash %	Floats		Sinks		Wt. %	Ash %
			Wt. %	Ash %	Wt. %	Ash %		
- 1.30	19.48	2.87	19.48	2.87	100.00	55.74	9.74	2.87
1.30 - 1.35	4.50	6.15	23.98	3.49	80.52	68.53	21.73	6.15
1.35 - 1.40	2.76	9.16	26.74	4.07	76.02	72.22	25.36	9.16
1.40 - 1.45	1.85	15.83	28.59	4.83	73.26	74.59	27.67	15.83
1.45 - 1.50	1.45	22.34	30.04	5.68	71.41	76.12	29.31	22.34
1.50 - 1.60	1.75	28.47	31.79	6.93	69.96	77.23	30.92	28.47
1.60 - 1.70	3.14	36.55	34.93	9.59	68.21	78.48	33.36	36.55
1.70 - 1.80	2.13	42.89	37.06	11.51	65.07	80.51	35.99	42.89
+ 1.80	62.94	81.78	100.00	55.74	62.94	81.78	68.53	81.78
Total	100.00	55.74						

March 13, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

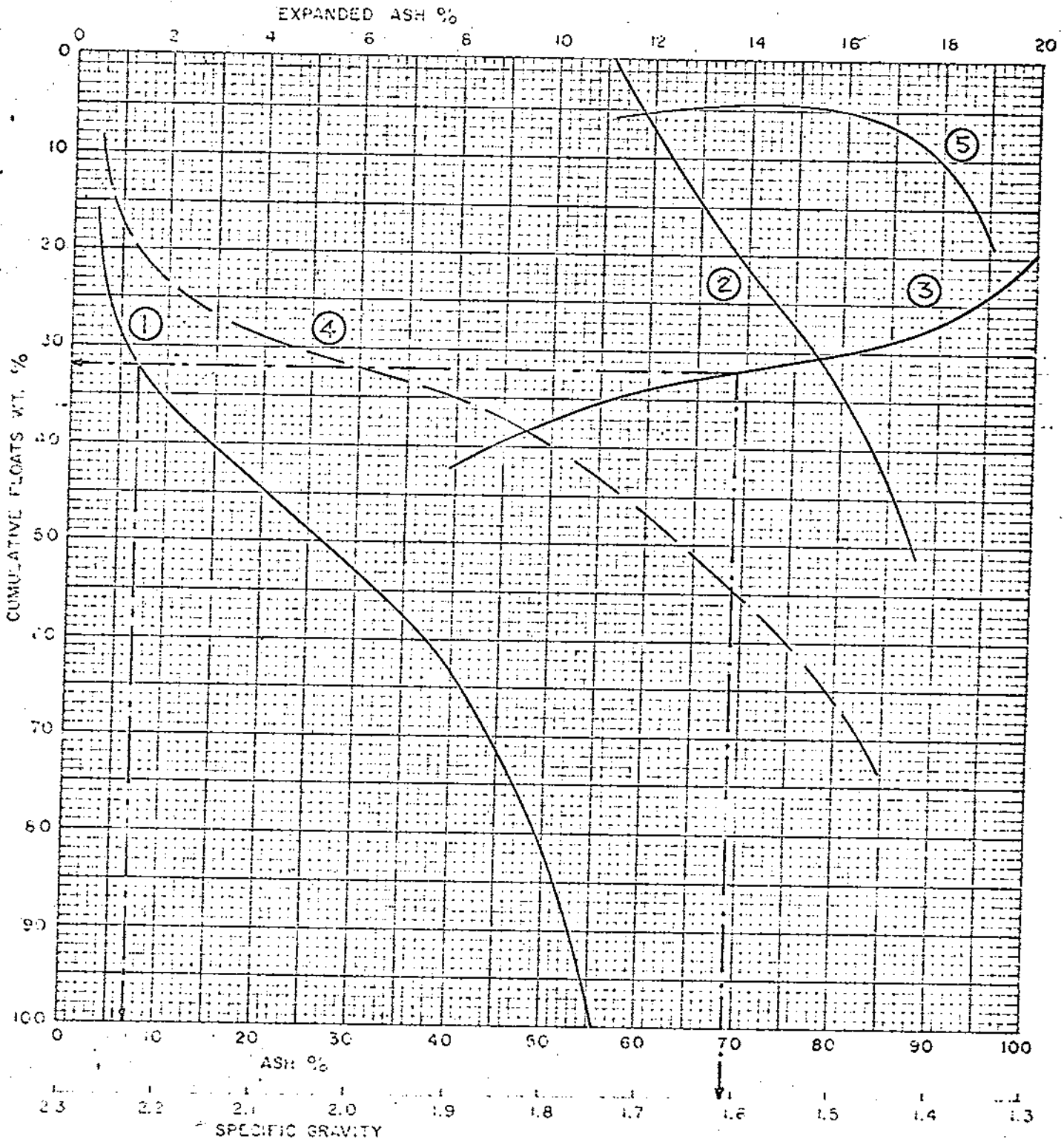
FIGURE

COMPANY Denison Mines Ltd.
DRILL HOLE # SD-7101
FOOTAGE 652.0' - 658.7' (D300)

CURVE LEGEND

- 1 FLOATS
- 2 SINKS
- 3 SPECIFIC GRAVITY
- 4 ELEMENTARY ASH
- 5 NEAR GRAVITY MATERIAL
- 6 EXPANDED FLOATS

WASHABILITY CURVES



DATE : March 13, 1972.

CYCLONE ENGINEERING SALES LTD.
EDMONTON ALBERTA CANADA

DENISON MINES LTD.

Drill Hole #SD-7101

Footage: 562.0' - 568.7' (D300)

T A B L E 7: Head Analysis of -28 Mesh

Ash	26.93%
Volatile Matter	18.14%
Residual Moisture	0.86%
Fixed Carbon	54.07%
F.S.I.	6½

March 13, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7101

Footage: 562.0' - 568.7' (D300)

T A B L E 8: Float-Sink of 28 x 100 Mesh and Proximate Analysis of Fractions

Sp. Gr.	Wt. %	Ash %	V.M. %	F.C. %	Cum. Wt. % Floats	Cum. Ash %	Cum. F.S.I.
- 1.40	54.79	4.02	22.30	73.68	54.79	4.02	9+
1.40 - 1.60	11.52	17.90	19.20	62.90	66.31	6.43	9+
1.60 - 1.80	4.92	36.39	15.32	48.29	71.23	8.50	9
+ 1.80	28.77	78.39	9.19	12.42	100.00	28.60	6
Total	100.00	28.60	17.83	53.57			

March 13, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7101

Footage: 562.0' - 568.7' (D300)

T A B L E 9: Froth Flotation test on -28 Mesh

Solids, by weight in Slurry	8%
Time of Flotation	1.5 minutes
Flotation Recovery	74.90%
Reagents	MIBC & Kerosene

Analysis of the Products

	<u>Concentrate</u>	<u>Tailings</u>
Ash, %	10.71	72.61
Volatile Matter, %	20.17	
Residual Moisture, %	0.85	
Fixed Carbon, %	68.27	
F.S.I.	9+	
Sulphur, %	0.90	

March 13, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7101

Footage: 562.0' - 568.7' (D300)

CLEAN COAL COMPOSITE

Specific Gravity at 7% Ash for +28 Mesh	1.61
Yield of Floats at 7% Ash in +28 Mesh	32.00%
Weight% of Floats at 1.61 in the Composite Clean Coal	51.00%
Weight % of Flotation Concentrate in Composite Clean Coal	49.00%

T A B L E 10: Proximate Analysis of Clean Coal Composite

Ash	8.67%
Volatile Matter	20.72%
Residual Moisture	0.87%
Fixed Carbon	69.74%
F.S.I.	9
Sulphur	0.48%

BOREHOLE SAMPLES

REPORT OF ANALYSES ON FLOAT-SINK MATERIAL

CLIENT: Denison Mines Ltd.

DATE: Feb. 21/72

PROJECT: Saxon

C.E.S. PROJECT NO. S1-84

SAMPLE NO: D-7101, 652.9' - 658.7'

C.E.S. SAMPLE NO. SB-1

TABLE 1. Float-Sink Analyses on 1/4" x 0

Property Fraction	Wt. %	Ash%	RM %	VM %	FC%	S. %	FSI
- 1.45	46.35	5.02	0.45	28.33	66.20		9
+ 1.45	53.65	68.02					
TOTAL	100.00	38.82					

Remarks:

C.E.S. Form 33

CYCLONE ENGINEERING SALES LTD.

Per: R.S. Sehgal, P. Eng.,
Laboratory Manager.

RSS:hg

BOREHOLE SAMPLES

REPORT OF ANALYSES ON FLOAT-SINK MATERIAL

CLIENT: Denison Mines Ltd.

DATE: Feb. 21/72

PROJECT: Saxon

C.E.S. PROJECT NO. S1-84

SAMPLE NO: D-7101, 652.9' - 658.7'

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TABLE 1. Float-Sink Analyses on 1/4" x 0

Property Fraction	Wt. %	Ash%	RM %	VM %	FC%	S. %	FSI	
- 1.45	46.35	5.02	0.45	28.33	66.20		9	
+ 1.45	53.65	68.02						
TOTAL	100.00	38.82						

Remarks:

C.E.S. Form 33

CYCLONE ENGINEERING SALES LTD.

Per: R.S. Sehgal, P. Eng.,
Laboratory Manager.

RSS:hg

DENISON MINES LTD.

Drill Hole #SD-7101

Footage: 700.5' - 706.8' (D501)

T A B L E 1: Raw Sample Analysis

Ash	35.85%
Volatile Matter	15.68%
Residual Moisture	1.10%
Fixed Carbon	47.37%
F.S.I.	4½
B.T.U./lb.	9,260
Sulphur	0.74%

March 14, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7101

Footage: 700.5' - 706.8' (D501)

T A B L E 2: Size Consist of Head Sample

	<u>Weight %</u>
+28 Mesh	68.33
28 x 100 Mesh	19.15
- 100 Mesh	<u>12.52</u>
Total	<u>100.00</u>

March 14, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7101

Footage: 700.5' - 706.8' (D501)

T A B L E 3: Head Analysis of +28 Mesh

Ash	42.41%
Volatile Matter	14.76%
Residual Moisture	1.13%
Fixed Carbon	41.70%
F.S.I.	3½

March 14, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7101

Footage: 700.5' - 706.8' (D501)

T A B L E 4: Weight % and Proximate Analysis of Specific Gravity Fractions: +28 Mesh

Sp. Gr.	Wt. %	Ash %	V.M. %	R.M. %	F.C. %
- 1.30	39.12	1.41	22.00	1.19	75.40
1.30 - 1.35	6.68	5.44	19.09	1.17	74.30
1.35 - 1.40	3.75	9.10	18.49	1.16	71.25
1.40 - 1.45	2.37	12.48	16.68	1.20	69.64
1.45 - 1.50	0.95	16.36	16.48	1.17	65.99
1.50 - 1.60	0.68	22.58	15.54	1.21	60.67
1.60 - 1.70	0.36	30.30	16.14	1.20	52.36
1.70 - 1.80	0.21	35.01	16.22	1.17	47.60
+ 1.80	45.88	86.84	7.65	1.16	4.35
Total	100.00	41.89	14.83	1.17	42.11

DENISON MINES LTD.

Drill Hole #SD-7101

Footage: 700.5' - 706.8' (D501)

T A B L E 5: Weight %, Proximate Analysis and Free Swelling Index of Cumulative Floats: +28 Mesh

Sp. Gr.	Wt. %	Ash %	VM. %	R.M. %	F.C. %	F.S.I.*
- 1.30	39.12	1.41	22.00	1.19	75.40	9+
- 1.35	45.80	2.00	21.58	1.19	75.23	9+
- 1.40	49.55	2.54	21.34	1.19	74.93	9
- 1.45	51.92	2.99	21.13	1.19	74.69	9
- 1.50	52.87	3.23	21.05	1.19	74.53	9
- 1.60	53.55	3.48	20.98	1.19	74.35	8½
- 1.70	53.91	3.65	20.94	1.19	74.22	8½
- 1.80	54.12	3.78	20.93	1.19	74.10	8
Total	100.00	41.89	14.83	1.17	42.11	3½

* F.S.I. by actual determination.

March 14, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7101

Footage: 700.5' - 706.8' (D501)

T A B L E 6: Washability Data: +28 Mesh

Specific Gravity	Fractional		Cumulative				Elementary Ash	
	Wt. %	Ash %	Floats		Sinks		Wt. %	Ash %
			Wt. %	Ash %	Wt. %	Ash %		
- 1.30	39.12	1.41	39.12	1.41	100.00	41.89	19.56	1.41
1.30 - 1.35	6.68	5.44	45.80	2.00	60.88	67.89	42.46	5.44
1.35 - 1.40	3.75	9.10	49.55	2.54	54.20	75.59	47.68	9.10
1.40 - 1.45	2.37	12.48	51.92	2.99	50.45	80.53	50.73	12.48
1.45 - 1.50	0.95	16.36	52.87	3.23	48.08	83.89	52.40	16.36
1.50 - 1.60	0.68	22.58	53.55	3.48	47.13	85.25	53.21	22.58
1.60 - 1.70	0.36	30.30	53.91	3.65	46.45	86.17	53.73	30.30
1.70 - 1.80	0.21	35.01	54.12	3.78	46.09	86.60	54.01	35.01
+ 1.80	45.88	86.84	100.00	41.89	45.88	86.84	82.06	86.84
Total	100.00	41.89						

March 14, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

FIGURE

COMPANY Denison Mines Ltd.

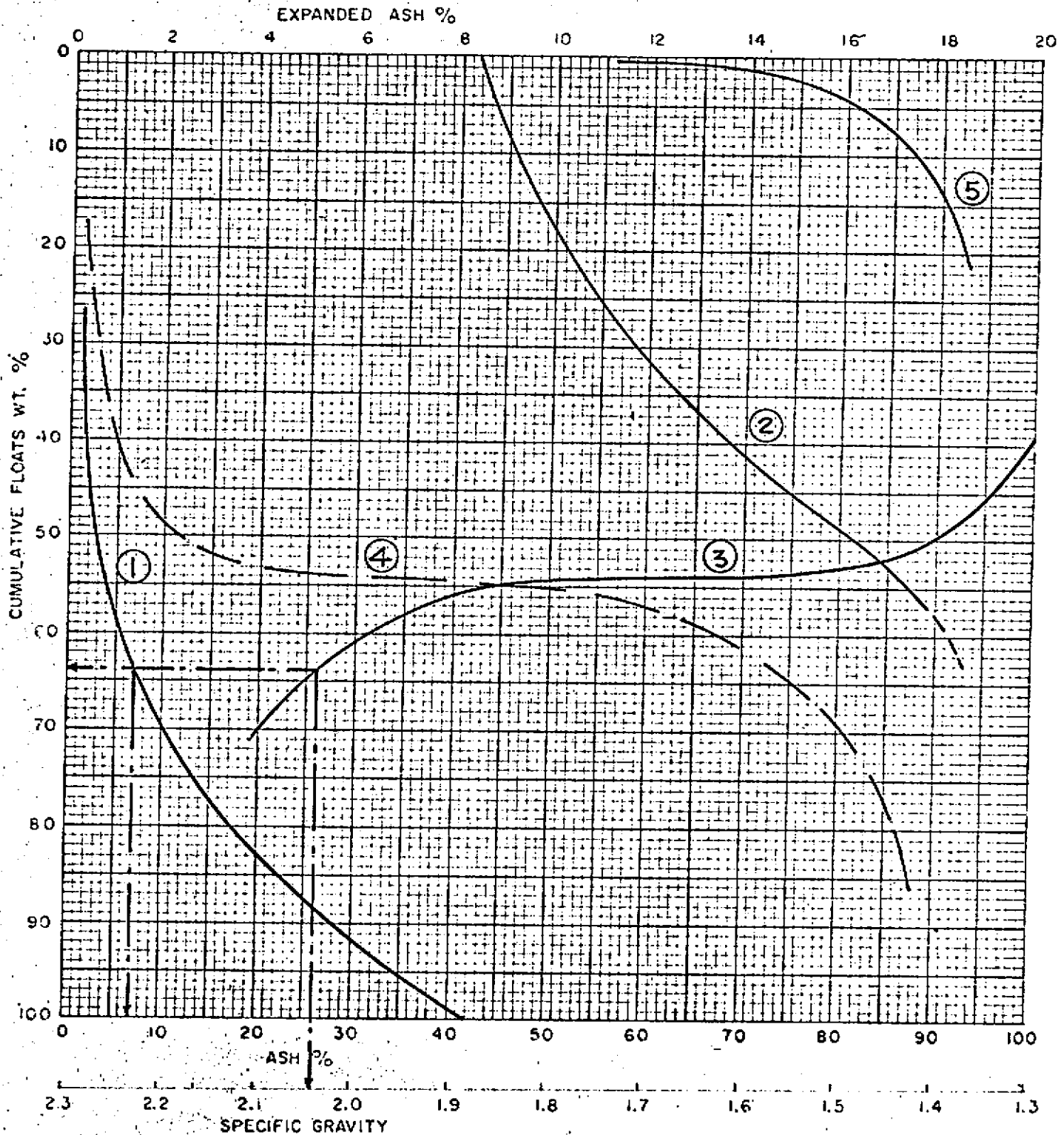
DRILL HOLE # SD-7101

FOOTAGE 700.5' 0796.8' (D501)

CURVE LEGEND

- 1 FLOATS
- 2 SINKS
- 3 SPECIFIC GRAVITY
- 4 ELEMENTARY ASH
- 5 NEAR GRAVITY MATERIAL
- 6 EXPANDED FLOATS

WASHABILITY CURVES



DATE ; March 14, 1972.

CYCLONE ENGINEERING SALES LTD.
EDMONTON ALBERTA CANADA

DENISON MINES LTD.

Drill Hole #SD-7101

Footage: 700.5' - 706.8' (D501)

T A B L E 7: Head Analysis of -28 Mesh

Ash	19.52%
Volatile Matter	18.38%
Residual Moisture	1.08%
Fixed Carbon	61.02%
ES.I.	8

March 14, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7101

Footage: 700.5' - 706.8' (D501)

T A B L E 8: Float-Sink of 28 x 100 Mesh and Proximate Analysis of Fractions

Specific Gravity	Wt. %	Ash %	V.M. %	F.C. %	Cum. Wt. % Floats	Cum. Ash %	Cum. F.S.I.
- 1.40	71.92	2.67	21.09	76.24	71.92	2.67	9+
1.40 - 1.60	7.74	16.10	16.45	67.45	79.66	3.97	9
1.60 - 1.80	1.24	32.08	16.32	51.60	80.90	4.41	9
+ 1.80	19.10	84.97	8.14	6.89	100.00	19.79	8
Total	100.00	19.79	18.20	62.01			

March 14, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7101,
Footage: 700.5' - 706.8' (D501)

T A B L E 9: Froth Flotation Test on -28 Mesh

Solids, by weight in Slurry	8%
Time of Flotation	1.5 minutes
Flotation Recovery	73.64%
Reagents	MIBC & Kerosene

Analysis of the Products

	<u>Concentrate</u>	<u>Tailings</u>
Ash, %	5.20	59.33
Volatile Matter, %	20.14	
Residual Moisture, %	1.11	
Fixed Carbon, %	73.55	
F.S.I.	9+	
Sulphur, %	0.64	

March 14, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7101

Footage: 700.5' - 706.8' (D501)

CLEAN COAL COMPOSITE

Specific Gravity at 7% Ash for +28 Mesh	2.04
Yield of Floats at 7% Ash in +28 Mesh	64.00%
Weight % of Floats at 2.04 in the Composite Clean Coal	65.20%
Weight % of Flotation Concentrate in Composite Clean Coal	34.80%

T A B L E 10: Proximate Analysis of Clean Coal Composite

Ash	6.57%
Volatile Matter	20.18%
Residual Moisture	1.16%
Fixed Carbon	72.09%
F.S.I.	8½
Sulphur	0.60%

March 14, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7101

Footage: 953.0' - 981.0' (D502)

T A B L E 1: Raw Sample Analysis

Ash	30.91%
Volatile Matter	15.88%
Residual Moisture	1.04%
Fixed Carbon	52.17%
F.S.I.	3
B.T.U./lb.	10.560
Sulphur	0.52%

March 14, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hoel #SD-7101

Footage: 953.0' - 981.0' (D502)

T A B L E 2: Size Consist of Head Sample

	<u>Weight %</u>
+28 Mesh	63.78
28 x 100 Mesh	20.99
-100 Mesh	<u>15.23</u>
Total	<u>100.00</u>

March 14, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7101

Footage: 953.0' - 981.0' (D502)

T A B L E 3: Head Analysis of +28 Mesh

Ash	35.46%
Volatile Matter	14.90%
Residual Moisture	0.96%
Fixed Carbon	48.68%
F.S.I.	2½

March 14, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7101

Footage: 953.0' - 981.0' (D502)

T A B L E 4: Weight % and Proximate Analysis of Specific Gravity Fractions: +28 Mesh

Sp. Gr.	Wt. %	Ash %	V.M. %	R.M. %	F.C. %
- 1.30	23.95	2.67	21.65	1.01	74.67
1.30 - 1.35	15.17	5.68	19.02	1.06	74.24
1.35 - 1.40	8.15	9.51	17.65	1.05	71.79
1.40 - 1.45	4.63	14.31	17.03	1.03	67.63
1.45 - 1.50	2.81	19.26	18.55	1.01	61.18
1.50 - 1.60	3.60	26.27	18.64	1.06	54.03
1.60 - 1.70	3.64	34.93	16.71	1.05	47.31
1.70 - 1.80	3.14	41.73	15.04	1.04	42.19
+ 1.80	34.91	80.34	8.52	1.04	10.10
Total	100.00	35.05	15.54	1.04	48.37

DENISON MINES LTD.

Drill Hole #SD-7101,
Footage: 953.0' - 981.0' (D502)

T A B L E 5: Weight%, Proximate Analysis and Free Swelling
Index of Cumulative Floats: +28 Mesh

Sp. Gr.	Wt. %	Ash %	V.M. %	R.M. %	F.C. %	F.S.I.*
- 1.30	23.95	2.67	21.65	1.01	74.67	9+
- 1.35	39.12	3.84	20.63	1.03	74.50	8
- 1.40	47.27	4.82	20.12	1.03	74.03	7½
- 1.45	51.90	5.66	19.84	1.03	73.47	7
- 1.50	54.71	6.36	19.77	1.03	72.84	7
- 1.60	58.31	7.59	19.70	1.03	71.68	6
- 1.70	61.95	9.20	19.53	1.03	70.24	5½
- 1.80	65.09	10.77	19.31	1.03	68.89	5
Total	100.00	35.05	15.54	1.04	48.37	2½

* F.S.I. by actual determination.

March 14, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7101

Footage: 953.0' - 981.0' (D502)

T A B L E 6: Washability Data: +28 Mesh

Specific Gravity	Fractional		Cumulative				Elementary Ash	
	Wt. %	Ash %	Floats		Sinks		Wt. %	Ash %
			Wt. %	Ash %	Wt. %	Ash %		
- 1.30	23.95	2.67	23.95	2.67	100.00	35.05	11.97	2.67
1.30 - 1.35	15.17	5.68	39.12	3.84	76.05	45.26	31.54	5.68
1.35 - 1.40	8.15	9.51	47.27	4.82	60.88	55.12	43.19	9.51
1.40 - 1.45	4.63	14.31	51.90	5.66	52.73	62.17	49.89	14.31
1.45 - 1.50	2.81	19.26	54.71	6.36	48.10	66.77	53.30	19.26
1.50 - 1.60	3.60	26.27	58.31	7.59	45.29	69.72	56.51	26.27
1.60 - 1.70	3.64	34.93	61.95	9.20	41.69	73.47	60.13	34.93
1.70 - 1.80	3.14	41.73	65.09	10.77	38.05	77.15	63.52	41.73
+ 1.80	34.91	80.34	100.00	35.05	34.91	80.34	82.55	80.34
Total	100.00	35.05						

March 14, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

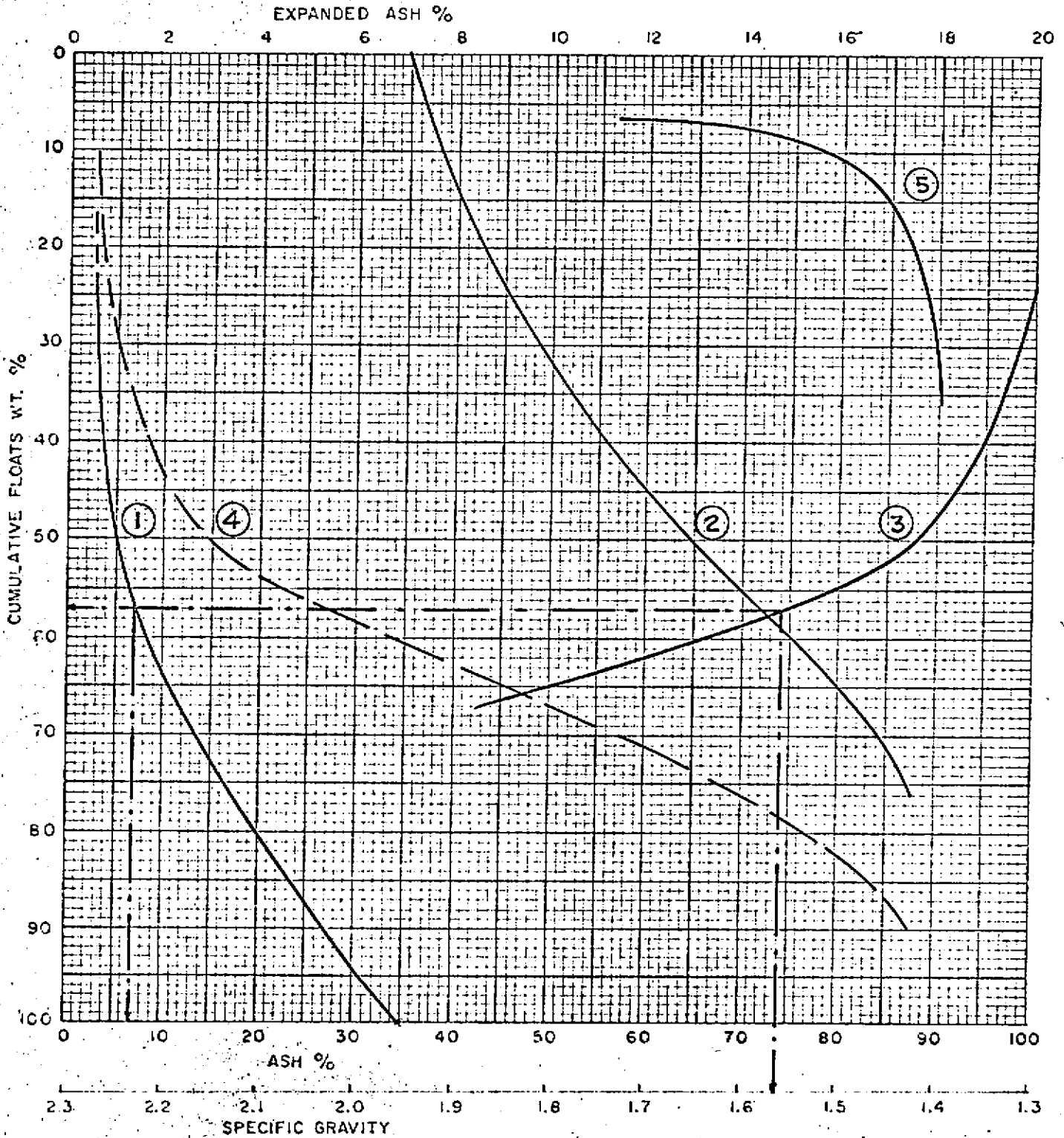
FIGURE

COMPANY Denison Mines Ltd.
DRILL HOLE # SD-7101
FOOTAGE 953.0' - 981.0' (D502)

CURVE LEGEND

- 1 FLOATS
- 2 SINKS
- 3 SPECIFIC GRAVITY
- 4 ELEMENTARY ASH
- 5 NEAR GRAVITY MATERIAL
- 6 EXPANDED FLOATS

WASHABILITY CURVES



DATE : March 15, 1972.

CYCLONE ENGINEERING SALES LTD.
EDMONTON ALBERTA CANADA

DENISON MINES LTD.

Drill Hole #SD-7101,
Footage: 953.0' - 981.0' (D502)

T A B L E 7: Head Analysis of -28 Mesh

Ash	20.74%
Volatile Matter	17.58%
Residual Moisture	1.13%
Fixed Carbon	60.55%
P.S.I.	4½

March 14, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7101

Footage: 953.0' - 981.0' (D502)

T A B L E 8: Float-Sink of 28 x 100 Mesh and Proximate Analysis of Fractions

Specific Gravity	Wt. %	Ash %	V.M.%	F.C.%	Cum. Wt. % Floats	Cum. Ash %	Cum. F.S.I.
- 1.40	69.12	4.39	19.51	76.10	69.12	4.39	9
1.40 - 1.60	9.48	19.43	17.76	62.81	78.60	6.20	7½
1.60 - 1.80	4.15	40.71	15.58	43.71	82.75	7.93	7½
+ 1.80	17.25	78.55	8.58	12.87	100.00	20.12	4½
Total	100.00	20.12	17.30	62.58			

March 14, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7101

Footage: 953.0' - 981.0' (D502)

T A B L E 9: Froth Flotation Test on -28 Mesh

Solids, by weight in Slurry	8%
Time of Flotation	1.5 minutes
Flotation Recovery	64.63%
Reagents	MIBC & Kerosene

Analysis of the Products

	<u>Concentrate</u>	<u>Tailings</u>
Ash, %	8.28	41.67
Volatile Matter, %	18.64	
Residual Moisture, %	1.10	
Fixed Carbon, %	71.98	
F.S.I.	7	
Sulphur, %	0.47	

March 14, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7101,
Footage: 953.0' - 981.0' (D502)

CLEAN COAL COMPOSITE

Specific Gravity at 7% Ash for +28 Mesh	1.56
Yield of Floats at 7% Ash in +28 Mesh	57.00%
Weight % of Floats at 1.56 in the Composite Clean Coal	62.60%
Weight % of Flotation Concentrate in Composite Clean Coal	37.40%

T A B L E 10: Proximate Analysis of Clean Coal Composite

Ash	7.51%
Volatile Matter	19.12%
Residual Moisture	1.02%
Fixed Carbon	72.35%
F.S.I.	6½
Sulphur	0.46%

March 14, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7101

Footage: 1160.8' - 1166.1' (D503)

T A B L E 1: Raw Sample Analysis

Ash	45.16%
Volatile Matter	13.92%
Residual Moisture	0.64%
Fixed Carbon	40.28%
F.S.I.	3
B.T.U./lb.	8,060
Sulphur	0.46%

March 15, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7101

Footage: 1160.8' - 1166.1' (D503)

T A B L E 2: Size Consist of Head Sample

	<u>Weight%</u>
+28 Mesh	66.41
28 x 100 Mesh	-
-100 Mesh	<u>33.59</u>
Total	100.00

March 15, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7101

Footage: 1160.8' - 1166.1' (D503)

T A B L E 3: Head Analysis of +28 Mesh

Ash	54.59%
Volatile Matter	13.14%
Residual Moisture	0.80%
Fixed Carbon	31.47%
F.S.I.	1

March 15, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7101

Footage: 1160.8' - 1166.1' (D503)

T A B L E 4: Weight % and Proximate Analysis of Specific Gravity Fractions: +28 Mesh

Sp. Gr.	Wt. %	Ash %	V.M. %	R.H. %	F.C. %
- 1.30	25.56	1.64	23.54	0.81	74.01
1.30 - 1.35	6.94	5.33	19.68	0.81	74.18
1.35 - 1.40	3.28	8.83	17.58	0.83	72.76
1.40 - 1.45	1.75	12.44	16.90	0.85	69.81
1.45 - 1.50	0.94	18.36	16.39	0.83	64.42
1.50 - 1.60	1.24	22.30	16.06	0.82	60.82
1.60 - 1.70	0.80	31.29	15.90	0.81	52.00
1.70 - 1.80	0.89	41.13	15.18	0.79	42.90
+ 1.80	58.60	85.44	7.75	0.79	6.02
Total	100.00	52.43	13.41	0.80	33.36

March 15, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #8D-7101

Footage: 1160.8' - 1166.1' (D503)

T A B L E 5: Weight %, Proximate Analysis and Free Swelling Index of Cumulative Floats: +28 Mesh

Sp. Gr.	Wt. %	Ash %	V.M. %	R.M. %	F.C. %	F.S.I.*
- 1.30	25.56	1.64	23.54	0.81	74.01	9+
- 1.35	32.50	2.43	22.72	0.80	74.05	9
- 1.40	35.78	3.01	22.24	0.80	73.95	9
- 1.45	37.53	3.45	21.99	0.81	73.75	8½
- 1.50	38.47	3.82	21.86	0.81	73.51	8½
- 1.60	39.71	4.40	21.68	0.81	73.11	8
- 1.70	40.51	4.93	21.56	0.81	72.70	8
- 1.80	41.40	5.71	21.43	0.81	72.05	7½
Total	100.00	52.43	13.41	0.80	33.36	1

* F.S.I. by actual determination.

March 15, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7101,
Footage: 1160.8' - 1166.1' (D503)

T A B L E 6: Washability Data: +28 Mesh

Specific Gravity	Fractional		Cumulative				Elementary Ash	
	Wt. %	Ash %	Floats		Sinks		Wt. %	Ash %
			Wt. %	Ash %	Wt. %	Ash %		
- 1.30	25.56	1.64	25.56	1.64	100.00	52.43	12.78	1.64
1.30 - 1.35	6.94	5.33	32.50	2.43	74.44	69.87	29.03	5.33
1.35 - 1.40	3.28	8.83	35.78	3.01	67.50	76.50	34.14	8.83
1.40 - 1.45	1.75	12.44	37.53	3.45	64.22	79.96	36.66	12.44
1.45 - 1.50	0.94	18.36	38.47	3.82	62.47	81.85	38.00	18.36
1.50 - 1.60	1.24	22.30	39.71	4.40	61.53	82.82	39.09	22.30
1.60 - 1.70	0.80	31.29	40.51	4.93	60.29	84.07	40.11	31.20
1.70 - 1.80	0.89	41.13	41.40	5.71	59.49	84.78	40.95	41.13
+ 1.80	58.60	85.44	100.00	52.43	58.60	85.44	70.70	85.44
Total	100.00	52.43						

March 15, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

FIGURE

COMPANY Denison Mines Ltd.

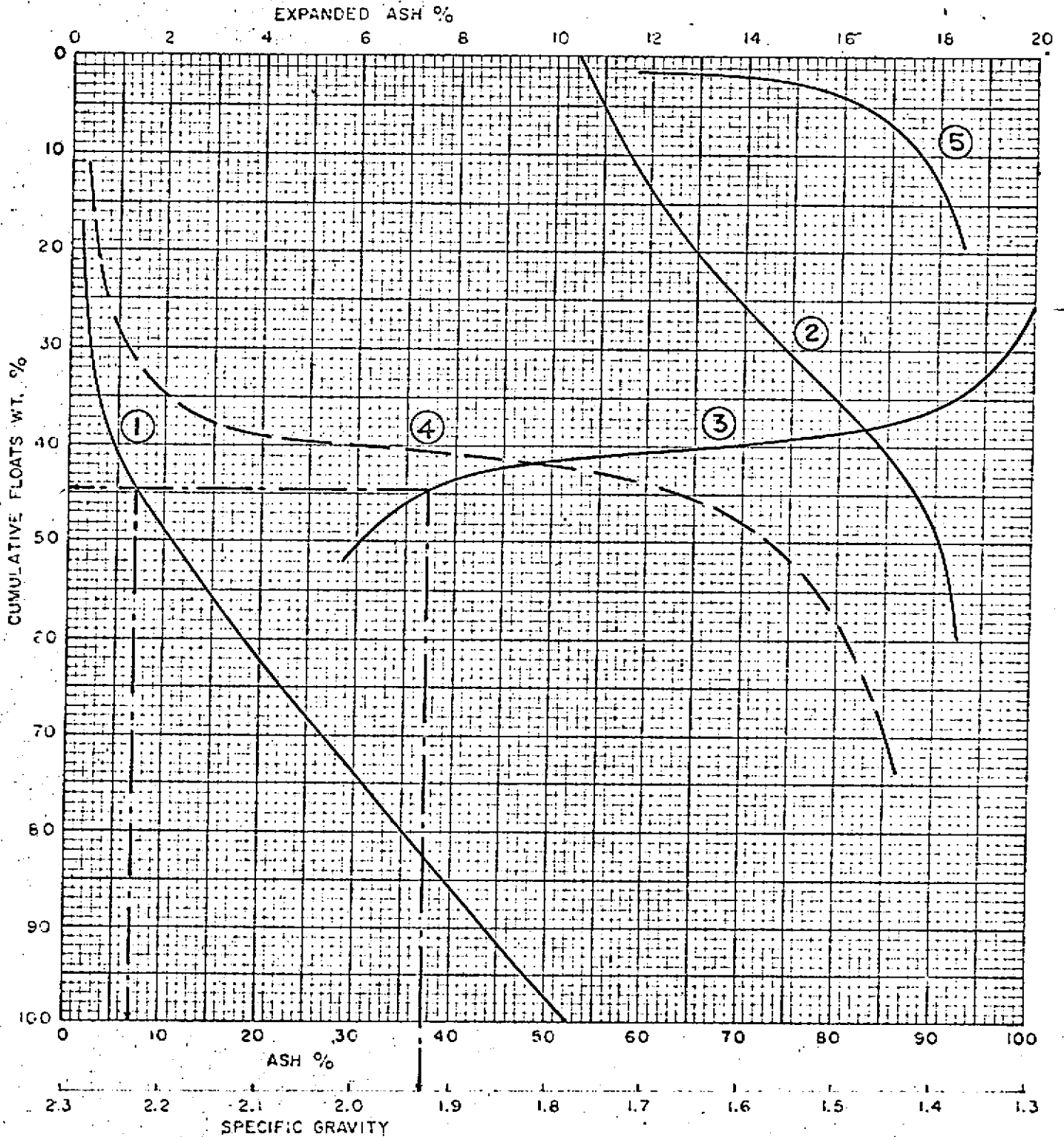
DRILL HOLE # SD-7101

FOOTAGE 1160.8' - 1166.1 (D503)

CURVE LEGEND

- 1 FLOATS
- 2 SINKS
- 3 SPECIFIC GRAVITY
- 4 ELEMENTARY ASH
- 5 NEAR GRAVITY MATERIAL
- 6 EXPANDED FLOATS

WASHABILITY CURVES



DATE : March 15, 1972.

CYCLONE ENGINEERING SALES LTD.
EDMONTON ALBERTA CANADA

DENISON MINES LTD.

Drill Hole #SD-7101

Footage: 1160.8' - 1166.1' (D503)

T A B L E 7: Head Analysis of -28 Mesh

Ash	24.78%
Volatile Matter	16.60%
Residual Moisture	0.98%
Fixed Carbon	57.64%
F.S.I.	5

March 15, 1972:

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7101

Footage: 1160.8' - 1166.1' (D503)

T A B L E 8: Float-Sink of 28 x 100 Mesh and Proximate Analysis of Fractions

Specific Gravity	Wt. %	Ash %	V.M. %	F.C. %	Cum. Wt. % Floats	Cum. Ash %	Cum. F.S.I.
- 1.40							
1.40 - 1.60							
1.60 - 1.80							
+ 1.80							
Total							

NOTE; NOT SUFFICIENT SAMPLE AVAILABLE TO DO THESE ANALYSIS.

March 15, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7101

Footage: 1160.8' - 1166.1' (D503)

T A B L E 9: Froth Flotation Test on -28 Mesh

Solids, by weight in Slurry	8%
Time of Flotation	1.5 minutes
Flotation Recovery	70.74%
Reagents	MIBC & Kerosene

Analysis of the Products

	<u>Concentrate</u>	<u>Tailings</u>
Ash, %	5.59	65.01
Volatile Matter, %	19.22	
Residual Moisture, %	0.98	
Fixed Carbon, %	74.21	
F.S.I.	8½	
Sulphur, %	0.61	

March 15, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7101

Footage: 1160.8' - 1166.1' (D503)

CLEAN COAL COMPOSITE

Specific Gravity at 7% Ash for +28 Mesh	1.93
Yield of Floats at 7% Ash in +28 Mesh	44.50%
Weight % of Floats at 1.93 in the Composite Clean Coal	55.50
Weight % of Flotation Concentrate in Composite Clean Coal	44.50

T A B L E 10: Proximate Analysis of Clean Coal Composite

Ash	6.71%
Volatile Matter	20.42%
Residual Moisture	0.87%
Fixed Carbon	72.00%
F.S.I.	8
Sulphur	0.36%

March 15, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

BOREHOLE SAMPLES

REPORT OF ANALYSES ON FLOAT-SINK MATERIAL

CLIENT: Denison Mines Ltd.

DATE: Feb. 21/72

PROJECT: Saxon

C.E.S. PROJECT NO. S1-84

SAMPLE NO: D-7101, 1160.8' - 1166.1'

C.E.S. SAMPLE NO. SB-4

TABLE 1. Float-Sink Analyses on 1/4" x 0

Property Fraction	Wt. %	Ash%	RM %	VM %	FC%	S. %	FSI
- 1.45	68.44	3.95	0.42	20.62	75.01		7
+ 1.45	31.56	73.95					
TOTAL	100.00	26.04					

Remarks:

C.E.S. Form 33

CYCLONE ENGINEERING SALES LTD.

Per: R.S. Sehgal, P. Eng.,
Laboratory Manager.

RSS:hg

BOREHOLE SAMPLES

REPORT OF ANALYSES ON FLOAT-SINK MATERIAL

CLIENT: Denison Mines Ltd.

DATE: Feb. 21/72

PROJECT: Saxon

C.E.S. PROJECT NO. S1-84

SAMPLE NO: D-7101, 1160.8' - 1166.1'

C.E.S. SAMPLE NO. SB-4

TABLE 1. Float-Sink Analyses on 1/4" x 0


Property Fraction	Wt. %	Ash %	RM %	VM %	FC %	S. %	FSI
- 1.45	68.44	3.95	0.42	20.62	75.01		7
+ 1.45	31.56	73.95					
TOTAL	100.00	26.04					

Remarks:

C.E.S. Form 33

CYCLONE ENGINEERING SALES LTD.

Per:


 R.S. Sehgal, P. Eng.,
 Laboratory Manager.

RSS:hg

DENISON MINES LTD.

Drill Hole #SD-7101

Footage: 1206.6' - 1211.4' (D504)

T A B L E 1: Raw Sample Analysis

Ash	24.84%
Volatile Matter	15.04%
Residual Moisture	0.79%
Fixed Carbon	59.33%
F.S.I.	4½
B.T.U./lb.	11,560
Sulphur	0.42%

March 15, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7101

Footage: 1206.6' - 1211.4' (D504)

T A B L E 2: Size Consist of Head Sample

	<u>Weight %</u>
+28 Mesh	76.81
28 x 100 Mesh	15.81
-100 Mesh	<u>7.38</u>
Total	<u>100.00</u>

March 15, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7101

Footage: 1206.6' - 1211.4' (D504)

T A B L E 3: Head Analysis of +28 Mesh

Ash	26.22%
Volatile Matter	15.29%
Residual Moisture	0.88
Fixed Carbon	57.61
F.S.I.	3½

March 15, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7101

Footage: 1206.6' - 1211.4' (D504)

T A B L E 4: Weight % and Proximate Analysis of Specific Gravity Fractions: +28 Mesh

Sp. Gr.	WT. %	Ash %	V.M. %	R.M. %	F.C. %
- 1.30	16.23	1.69	20.79	0.97	76.55
1.30 - 1.35	22.79	5.19	18.01	0.94	75.86
- 1.35 - 1.40	16.58	10.75	16.38	0.95	71.92
1.40 - 1.45	10.04	14.88	15.97	0.95	68.20
1.45 - 1.50	4.90	20.78	15.44	0.95	62.83
1.50 - 1.60	5.92	27.64	14.82	0.96	56.58
1.60 - 1.70	2.28	35.41	14.73	0.97	48.89
1.70 - 1.80	1.15	43.46	14.54	0.94	41.06
+ 1.80	19.57	85.77	7.73	0.94	5.56
Total	100.00	25.67	15.53	0.95	57.85

March 15, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7101

Footage: 1206.6' - 1211.4' (D504)

T A B L E 5: Weight %, Proximate Analysis and Free Swelling
Index of Cumulative Floats: +28 Mesh

Sp. Gr.	Wt. %	Ash %	V.M. %	R.M. %	F.C. %	F.S.I. *
- 1.30	16.23	1.69	20.79	0.97	76.55	9+
- 1.35	39.02	3.73	19.17	0.95	76.15	9
- 1.40	55.60	5.83	18.34	0.95	74.88	9
- 1.45	65.64	7.21	17.97	0.95	73.87	8
- 1.50	70.54	8.15	17.80	0.95	73.10	7½
- 1.60	76.46	9.66	17.57	0.95	28.18	7½
- 1.70	79.28	10.58	17.47	0.95	71.00	7
- 1.80	80.43	11.05	17.42	0.95	70.58	6½
Total	100.00	25.67	15.53	0.95	57.85	3½

*F.S.I. by actual determination.

March 15, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7101

Footage: 1206.6' - 1211.4' (D504)

T A B L E 6: Washability Data: +28 Mesh

Specific Gravity	Fractional		Cumulative				Elementary Ash	
	Wt. %	Ash %	Floats		Sinks		Wt. %	Ash %
			Wt. %	Ash %	Wt. %	Ash %		
- 1.30	16.23	1.69	16.23	1.69	100.00	25.67	8.11	1.69
1.30 - 1.35	22.79	5.19	39.02	3.73	83.77	30.32	27.63	5.19
1.35 - 1.40	16.58	10.75	55.60	5.83	60.98	39.71	47.31	10.75
1.40 - 1.45	10.04	14.88	65.64	7.21	44.40	50.52	60.61	14.88
1.45 - 1.50	4.90	20.78	70.54	8.15	34.36	60.94	68.09	20.78
1.50 - 1.60	5.92	27.64	76.46	9.66	29.46	67.62	73.50	27.64
1.60 - 1.70	2.82	35.41	79.28	10.58	23.54	77.67	77.87	35.41
1.70 - 1.80	1.15	43.46	80.43	11.05	20.72	83.42	79.86	43.46
+ 1.80	19.57	85.77	100.00	25.67	19.57	85.77	90.21	85.77
Total	100.00	25.67						

March 15, 1972.

CYCLONE ENGINEERING SALES LTD.

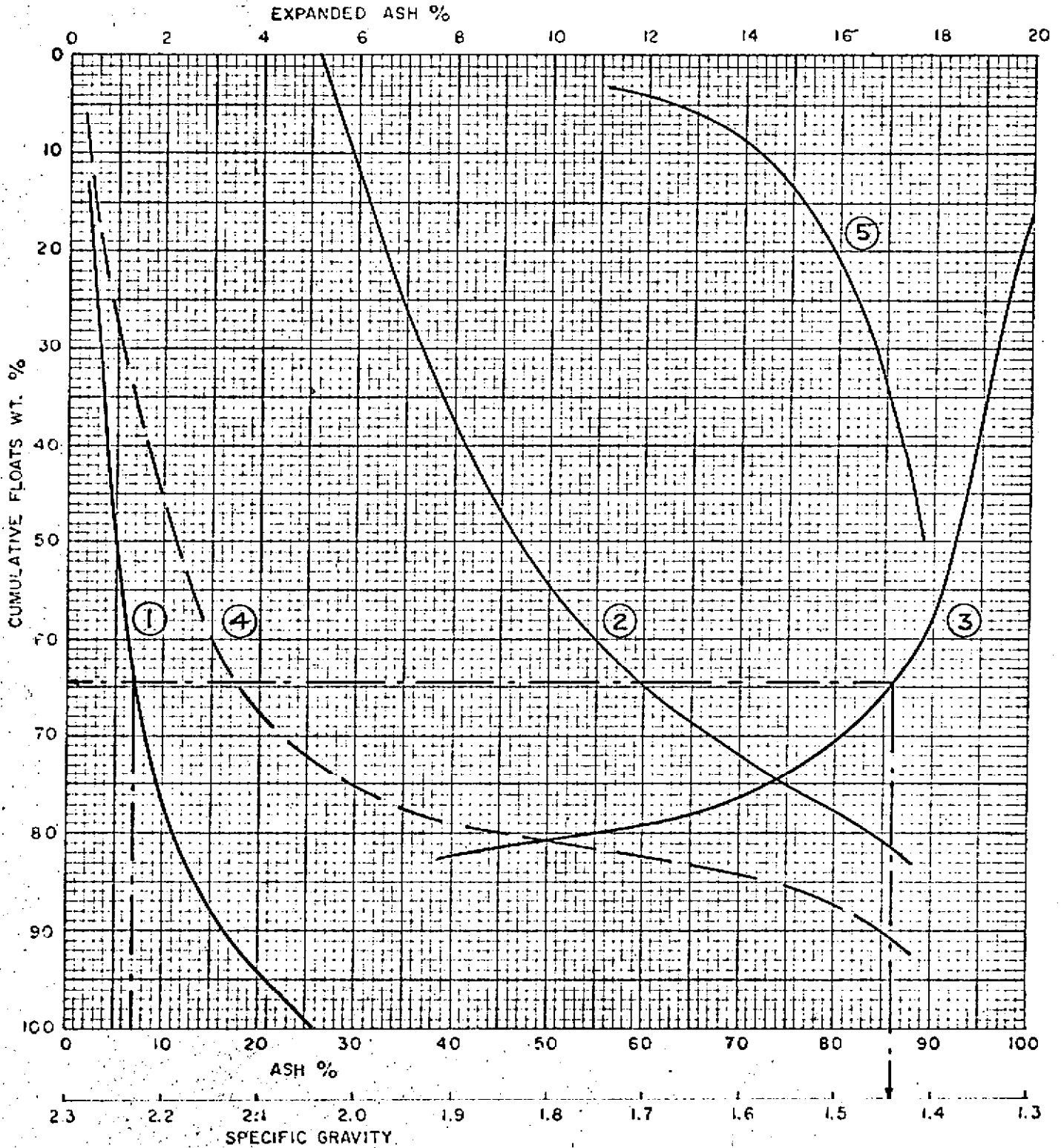
FIGURE

COMPANY Denison Mines Ltd.
DRILL HOLE # SD-7101
FOOTAGE 1206.6' - 1211.4' (D504)

CURVE LEGEND

- 1 FLOATS
- 2 SINKS
- 3 SPECIFIC GRAVITY
- 4 ELEMENTARY ASH
- 5 NEAR GRAVITY MATERIAL
- 6 EXPANDED FLOATS

WASHABILITY CURVES



DATE: March 15, 1972.

CYCLONE ENGINEERING SALES LTD.
EDMONTON ALBERTA CANADA

DENISON MINES LTD.

Drill Hole #SD-7101

Footage: 1206.6' - 1211.4' (D504)

T A B L E 7: Head Analysis of -28 Mesh

Ash	15.54%
Volatile Matter	17.16%
Residual Moisture	0.86%
Fixed Carbon	66.44%
F.S.I.	8

March 15, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7101

Footage: 1206.6' - 1211.4' (D504)

T A B L E 8: Float-Sink of 28 x 100 Mesh and Proximate Analysis of Fractions

Specific Gravity	Wt. %	Ash %	V.M. %	F.C. %	Cum. Wt. % Floats	Cum. Ash %	Cum. F.S.I.
- 1.40	71.68	4.02	20.24	75.74	71.68	4.02	9+
1.40 - 1.60	15.39	18.03	15.54	66.43	87.07	6.50	9+
1.60 - 1.80	3.55	36.03	14.42	49.55	90.62	7.65	9+
+ 1.80	9.38	83.90	7.40	8.70	100.00	14.81	8
Total	100.00	14.81	18.11	67.08			

March 15, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7101

Footage: 1206.6' - 1211.4' (D504)

T A B L E 9: Froth Flotation Test on -28 Mesh

Solids, by weight in Slurry	8%
Time of Flotation	1.5 minutes
Flotation Recovery	79.36%
Reagents	MIBC & Kerosene

Analysis of the Products

	<u>Concentrate</u>	<u>Tailings</u>
Ash, %	6.56	45.58
Volatile Matter, %	19.08	
Residual Moisture, %	0.86	
Fixed Carbon, %	73.50	
F.S.I.	9	
Sulphur, %	0.57	

March 15, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7101

Footage: 1206.6' - 1211.4' (D504)

CLEAN COAL COMPOSITE

Specific Gravity at 7% Ash for +28 Mesh	1.44
Yield of Floats at 7% Ash in +28 Mesh	64.50%
Weight % of Floats at 1.44 in the Composite Clean Coal	72.90%
Weight % of Flotation Concentrate in Composite Clean Coal	27.10%

T A B L E 10: Proximate Analysis of Clean Coal Composite

Ash	6.92%
Volatile Matter	18.62%
Residual Moisture	0.93%
Fixed Carbon	73.53%
F.S.I.	8½
Sulphur	0.34%

March 15, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

W.S.

BENISON MINES LTD.

Drill Hole #SD-7102
Footage: 745.8' - 747.6' (D505)

T A B L E 1: Raw Sample Analysis

Ash	56.22%
Volatile Matter	13.20%
Residual Moisture	0.81%
Fixed Carbon	29.77%
F.S.I.	1½
B.T.U./lb.	5,380
Sulphur	0.49%

March 16, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7102
Footage: 745.8' - 747.6' (D505)

T A B L E 2: Size Consist of Head Sample

	<u>Weight %</u>
+28 Mesh	77.22
-28 Mesh	<u>22.78</u>
Total	<u>100.00</u>

DENISON MINES LTD.

Drill Hole #SD-7102

Footage: 745.8' - 747.6' (D505)

T A B L E 3: Head Analysis of +28 Mesh

Ash	61.35%
Volatile Matter	12.51%
Residual Moisture	0.83%
Fixed Carbon	25.31%
F.S.I.	1

March 16, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7102

Footage: 745.8' - 747.6' (D505)

T A B L E 4: Weight % and Proximate Analysis of Specific Gravity Fractions: +28 Mesh

Sp. Gr.	Wt. %	Ash %	V.M.%	R.M.%	F.C.%
- 1.40	9.34	6.76	21.98	0.79	70.47
140 - 1.50	3.45	19.91	19.01	0.78	60.30
1.50 - 1.60	6.49	29.66	17.10	0.80	52.44
+ 1.60	80.72	72.24	11.25	0.76	15.75
Total	100.00	61.56	12.90	0.77	24.77

March 16, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7102

Footage: 745.8' - 747.6' (D505)

T A B L E 5: Weight %, Proximate Analysis and Free Swelling
Index of Cumulative Floats: +28 Mesh

Sp. Gr.	Wt. %	Ash %	V.M. %	R.M. %	F.C. %	F.S.I. *
- 1.40	9.34	6.76	21.98	0.79	70.47	9
- 1.50	12.79	10.31	21.18	0.79	67.72	8
- 1.60	19.28	16.82	19.81	0.79	62.58	7½
Total	100.00	61.56	12.90	0.77	24.77	1

* F.S.I. by actual determination.

March 16, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7102
Footage: 745.8' - 747.6' (D505)

T A B L E 6: Washability Data:

Specific Gravity	Fractional		Cumulative				Elementary Ash	
	Wt. %	Ash %	Floats		Sinks		Wt. %	Ash %
			Wt. %	Ash %	Wt. %	Ash %		
- 1.40	9.34	6.76	9.34	6.76	100.00	61.56	4.67	6.76
1.40 - 1.50	3.45	19.91	12.79	10.31	90.66	67.20	11.06	19.91
1.50 - 1.60	6.49	29.66	19.28	16.82	87.21	69.07	16.03	29.66
+ 1.60	80.72	72.24	100.00	61.56	80.72	72.24	59.64	72.24
Ttotal	100.00	61.56						

March 13, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

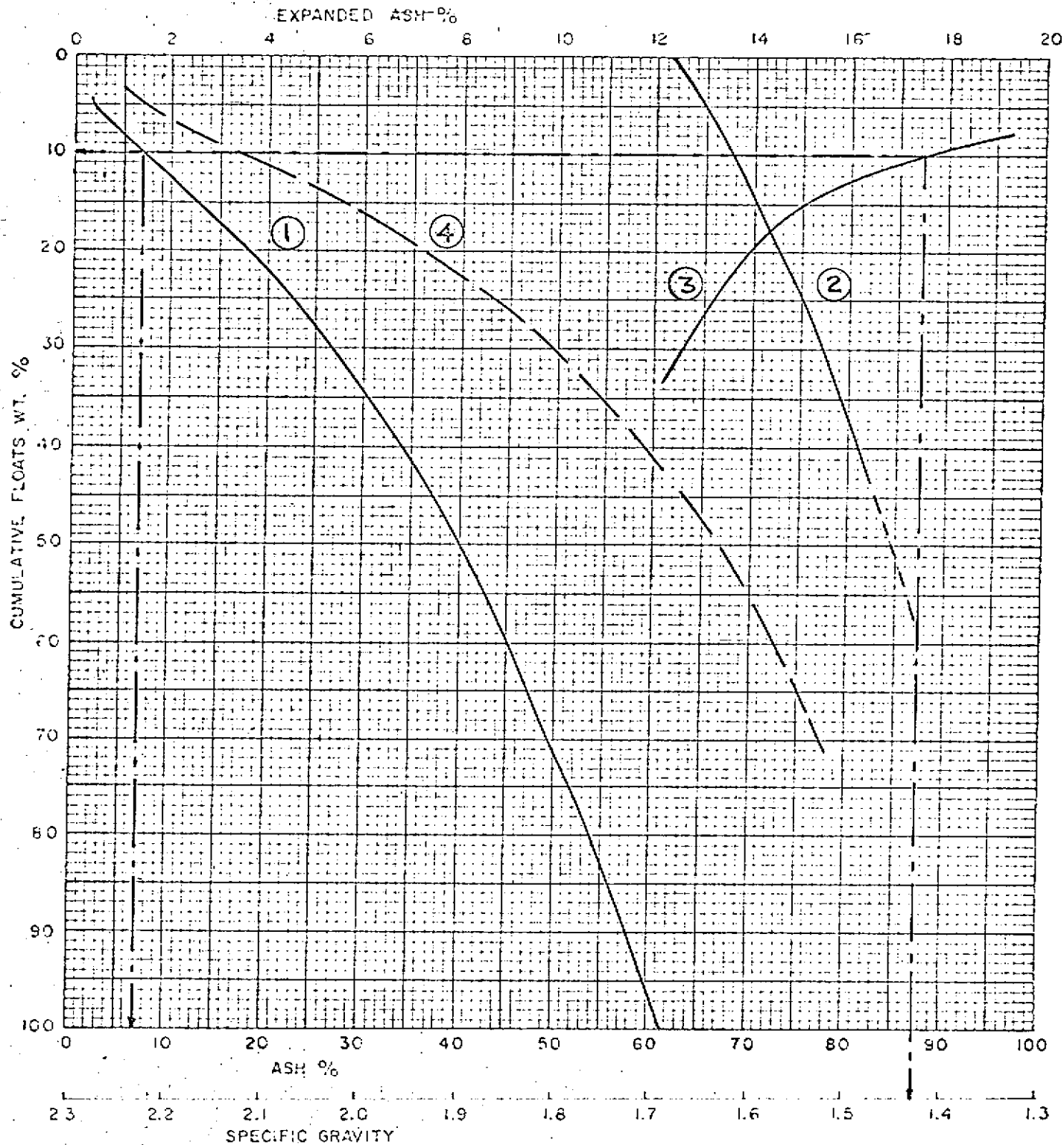
FIGURE

COMPANY Denison Mines Ltd.
DRILL HOLE # SD-7102
FOOTAGE 745.8' - 747.6' (D505)

CURVE LEGEND

- 1 FLOATS
- 2 SINKS
- 3 SPECIFIC GRAVITY
- 4 ELEMENTARY ASH
- 5 NEAR GRAVITY MATERIAL
- 6 EXPANDED FLOATS

WASHABILITY CURVES



DATE : March 16, 1972.

CYCLONE ENGINEERING SALES LTD.
EDMONTON ALBERTA CANADA

DENISON MINES LTD.

Drill Hole #SD-7102
Footage: 745.8' - 747.6' (D505)

T A B L E 7: Head Analysis of -28 Mesh

Ash	41.80%
Volatile Matter	15.41%
Residual Moisture	0.80%
Fixed Carbon	41.99%
F.S.I.	3½

T A B L E 8: Float-Sink of 28 x 100 Mesh and Proximate Analysis of Fractions

Not sufficient Sample available to do these analyses.

March 16, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7102
Footage: 745.8' 747.6' (D505)

T A B L E 9: Froth Flotation Test on -28 Mesh

Solids, by weight in Slurry	8%
Time of Flotation	1.5 Minutes
Flotation Recovery	63.65%
Reagents	MIBC & Kerosene

Analyses of the Products

	<u>Concentrate</u>	<u>Tailings</u>
Ash, %	21.10	76.59
Volatile Matter, %	19.42	
Residual Moisture, %	0.86	
Fixed Carbon, %	58.62	
F.S.I.	7½	
Sulphur, %	0.80	

March 16, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7102

Footage: 745.8' - 747.6' (D505)

CLEAN COAL COMPOSITE

Specific Gravity at 7% Ash for +28 Mesh	1.43
Yield of Floats at 7% Ash in +28 Mesh	10.00%
Weight % of Floats at 1.43 in the Composite Clean Coal	34.70%
Weight % of Flotation Concentrate in Composite Clean Coal	65.30%

T A B L E 10: Proximate Analysis of Clean Coal Composite

Ash	16.01%
Volatile Matter	21.11%
Residual Moisture	0.84%
Fixed Carbon	62.04%
F.S.I.	8½
Sulphur	0.45%

March 16, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

WKS.

DENISON MINES LTD.

Drill Hole #SD-7102
Footage: 748.2' - 752.0' and
752.0' - 759.2' (D506 and D507)

T A B L E L: Raw Sample Analysis

Ash	29.74%
Volatile Matter	17.24%
Residual Moisture	0.68%
Fixed Carbon	52.34%
F.S.I.	5
B.T.U./lb.	10,530
Sulphur	0.50%

March 16, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7102

Footage: 748.2' - 752.0' and
752.0' - 759.2' (D506 and D507)

T A B L E 2: Size Consist of Head Sample

	<u>Weight %</u>
+28 Mesh	67.66
28 x 100 Mesh	20.64
-100 Mesh	<u>11.70</u>
Total	<u>100.00</u>

March 16, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7102

Footage: 748.2' - 752.0' and
752.0' - 759.2' (D506 and D507)

T A B L E 3: Head Analysis of +28 Mesh

Ash	32.86%
Volatile Matter	16.80%
Residual Moisture	0.66%
Fixed Carbon	49.68%
F.S.I.	4½

March 16, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES, LTD.

Drill Hole #SD-7102

Footage: 748.2' - 752.0' and
752.0' - 759.2' (D506 and D507)

T A B L E 4: Weight % and Proximate Analysis of Specific Gravity Fractions: +20 Mesh

Sp. Gr.	Wt. %	Ash %	V.M. %	R.M. %	F.C. %
- 1.30	32.24	2.20	22.63	0.70	74.47
1.30 - 1.35	15.34	4.61	20.22	0.71	74.46
1.35 - 1.40	6.98	9.35	19.85	0.70	70.10
1.40 - 1.45	2.82	13.86	18.74	0.69	66.71
1.45 - 1.50	2.79	19.13	19.18	0.68	61.01
1.50 - 1.60	3.07	26.87	19.00	0.67	53.46
1.60 - 1.70	1.87	34.53	18.51	0.70	46.26
1.70 - 1.80	1.49	41.00	18.06	0.70	40.24
+ 1.80	33.40	81.39	9.10	0.72	8.79
Total	100.00	32.26	17.08	0.71	49.95

DENISON MINES LTD.

Drill Hole #SD-7102

Footage: 748.2' - 752.0' and
752.0' - 759.2' (D506 and D507)

T A B L E 5: Weight %, Proximate Analysis and Free Swelling
Index of Cumulative Floats: +28 Mesh

Sp. Gr.	Wt. %	Ash %	V.M.%	R.M.%	F.C.%	F.S.I.*
- 1.30	32.24	2.20	22.63	0.70	74.47	9+
- 1.35	47.58	2.98	21.85	0.70	74.47	8
- 1.40	54.56	3.79	21.60	0.70	73.91	7
- 1.45	57.38	4.29	21.46	0.70	73.55	7
- 1.50	60.17	4.98	21.35	0.70	72.97	6½
- 1.60	63.24	6.04	21.24	0.70	72.02	6½
- 1.70	65.11	6.86	21.16	0.70	71.28	6½
- 1.80	66.60	7.62	21.09	0.70	70.59	6
Total	100.00	32.26	17.08	0.71	49.95	4½

* F.S.I. by actual determination.

March 16, 1972/

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7102

Footage: 748.2' - 752.0' and
752.0' - 759.2' (D506 and D507)

T A B L E 6: Washability Data:

Specific Gravity	Fractional		Cumulative				Elementary Ash	
	Wt. %	Ash %	Floats		Sinks		Wt. %	Ash %
			Wt. %	Ash %	Wt. %	Ash %		
- 1.30	32.24	2.20	32.24	2.20	100.00	32.26	16.12	2.20
1.30 - 1.35	15.34	4.61	47.58	2.98	67.76	46.56	39.91	4.61
1.35 - 1.40	6.98	9.35	54.56	3.79	52.42	58.84	51.07	9.35
1.40 - 1.45	2.82	13.86	57.38	4.29	45.44	66.44	55.97	13.86
1.45 - 1.50	2.79	19.13	60.17	4.98	42.62	69.92	58.77	19.13
1.50 - 1.60	3.07	26.87	63.24	6.04	39.83	73.48	61.71	26.87
1.60 - 1.70	1.87	34.53	65.11	6.86	36.76	77.37	64.17	34.53
1.70 - 1.80	1.49	41.00	66.60	7.62	34.89	79.67	65.86	41.00
+ 1.80	33.40	81.39	100.00	32.26	33.40	81.39	83.30	81.39
Total	100.00	32.26						

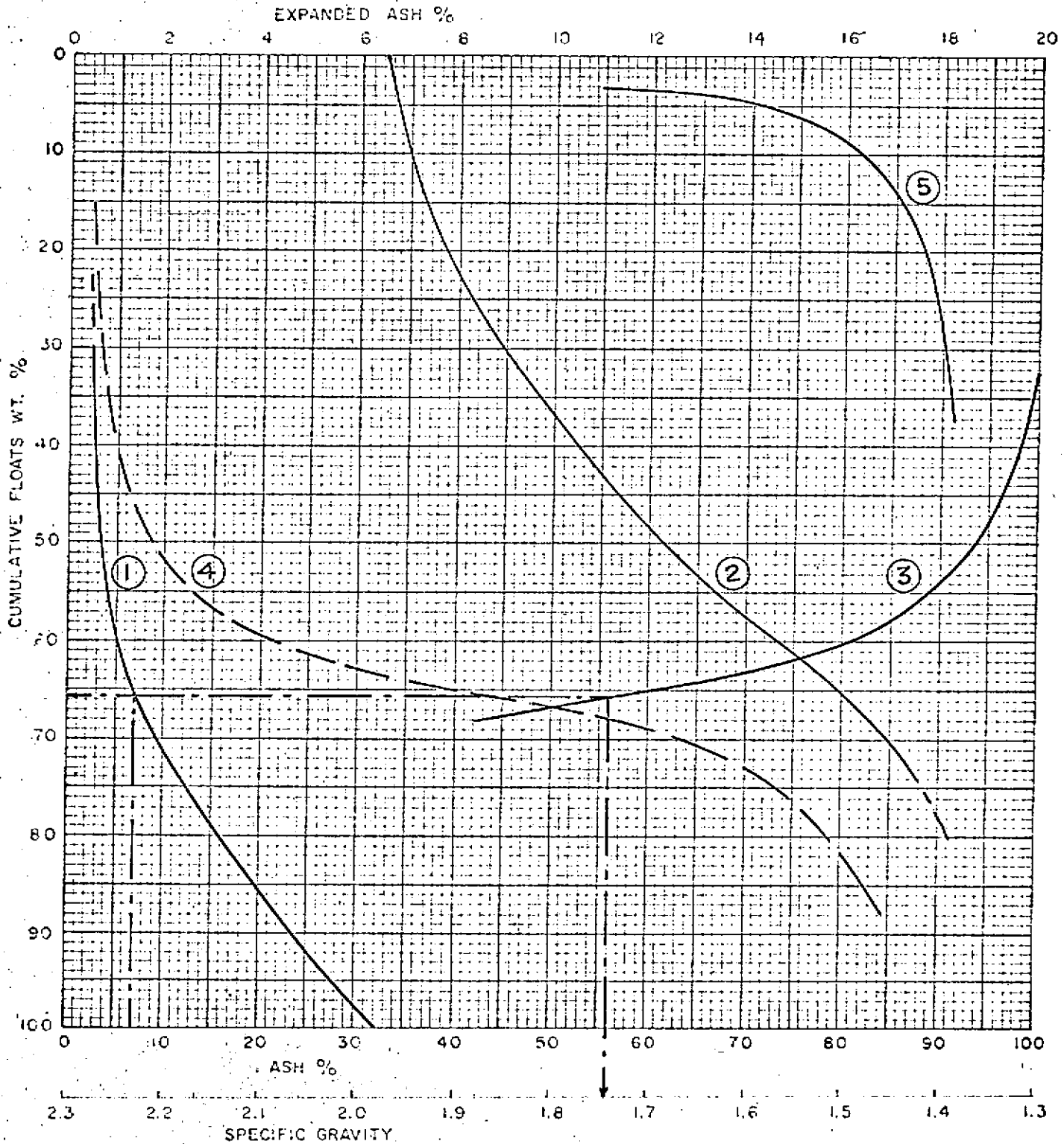
FIGURE

COMPANY Denison Mines Ltd.
DRILL HOLE # SD-7102
FOOTAGE 748.2' - 759.2' (D506 & D507)

CURVE LEGEND

- 1 FLOATS
- 2 SINKS
- 3 SPECIFIC GRAVITY
- 4 ELEMENTARY ASH
- 5 NEAR GRAVITY MATERIAL
- 6 EXPANDED FLOATS

WASHABILITY CURVES



DATE : March 16, 1972.

CYCLONE ENGINEERING SALES LTD.
EDMONTON ALBERTA CANADA

DENISON MINES LTD.

Drill Hole #SD-7102,
Footage: 748.2' - 752.0' and
752.0' - 759.2' (D506 and D507)

T A B L E 7: Head Analysis of -28 Mesh

Ash	22.80%
Volatile Matter	19.04%
Residual Moisture	0.69%
Fixed Carbon	57.47
F.S.I.	6½

March 16, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7102

Footage: 748.2' 752.0' and
752.0' - 759.2' (D506 and D507)

T A B L E 8: Float-Sink of 28 x 100 Mesh and Proximate Analysis of Fractions

Specific Gravity	Wt. %	Ash %	V.M. %	F.C. %	Cum. Wt. % Floats	Cum. Ash %	Cum. F.S.I.
- 1.40	62.52	3.61	22.40	73.99	62.52	3.61	9
1.40 - 1.60	13.16	14.84	19.56	65.60	75.68	5.56	8
1.60 - 1.80	5.08	39.41	17.00	43.59	80.76	7.69	7
+ 1.80	19.24	77.35	9.77	12.88	100.00	21.09	6½
Total	100.00	21.09	19.32	59.59			

March 16, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7102
Footage: 748.2' - 752.0' and
752.0' - 759.2' (D506 and D507)

T A B L E 9: Froth Flotation Test on -28 Mesh

Solids, by weight in Slurry	8%
Time of Flotation	1.5 minutes
Flotation Recovery	62.61%
Reagents	MIBC & Kerosene

Analyses of the Products

	<u>Concentrate</u>	<u>Tailings</u>
Ash, %	6.71	49.01
Volatile Matter, %	21.79	
Residual Moisture, %	0.70	
Fixed Carbon, %	70.80	
F.S.I.	7½	
Sulphur, %	0.62	

March 16, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7102

Footage: 748.2' - 752.0' and
752.0' - 759.2' (D506 and D507)

CLEAN COAL COMPOSITE

Specific Gravity at 7% Ash for +28 Mesh	1.74
Yield of Floats at 7% Ash in +28 Mesh	65.80%
Weight % of Floats at 1.74 in the Composite Clean Coal	68.70%
Weight % of Flotation Concentrate in Composite Clean Coal	31.30%

T A B L E 10: Proximate Analysis of Clean Coal Composite

Ash	6.96%
Volatile Matter	20.15%
Residual Moisture	0.69%
Fixed Carbon	72.20%
F.S.I.	7
Sulphur	0.43%

DENISON MINES LTD.

Drill Hole #SD-7102

Footage: 999.2' - 1004.5' (D508)

T A B L E 1: Raw Sample Analysis

Ash	47.41%
Volatile Matter	14.56%
Residual Moisture	0.91%
Fixed Carbon	37.12%
F.S.I.	1½
B.T.U./lb.	7,500
Sulphur	0.23%

March 17, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole ASD-7102,
Footage: 999.2' - 1004.5' (D508)

T A B L E 2: Size Consist of Head Sample

	<u>Weight %</u>
+28 Mesh	72.66
28 x 100 Mesh	16.92
-100 Mesh	<u>10.42</u>
Total	<u>100.00</u>

March 17, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7102

Footage: 999.2' - 1004.5' (D508)

T A B L E 3: Head Analysis of +28 Mesh

Ash	53.77%
Volatile Matter	13.42%
Residual Moisture	0.89%
Fixed Carbon	31.92%
F.S.I.	1

March 17, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7102

Footage: 999.2' - 1004.5' (D508)

T A B L E 4: Weight % and Proximate Analysis of Specific Gravity Fractions: +28 Mesh

Sp. Gr.	Wt. %	Ash %	V.M. %	R.M. %	F.C. %
- 1.30	5.20	3.12	21.30	0.97	74.61
1.30 - 1.35	6.34	6.18	18.96	0.97	73.89
1.35 - 1.40	4.52	10.17	18.80	0.94	70.09
1.40 - 1.45	3.84	15.56	18.11	0.95	65.38
1.45 - 1.50	2.84	19.73	17.62	0.95	61.70
1.50 - 1.55	4.30	24.41	17.18	0.94	57.47
1.50 - 1.60	6.31	31.15	16.41	0.93	51.51
1.60 - 1.70	9.12	36.03	15.69	0.94	47.34
1.70 - 1.80	5.03	44.25	15.01	0.93	39.81
+ 1.80	52.50	81.27	9.50	0.92	8.31
Total	100.00	53.37	13.30	0.93	32.40

March 17, 1972.

CYCLONE ENGINEERING SALES ED.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7102
Footage: 999.2' - 1004.5' (D508)

T A B L E 5: Weight %, Proximate Analysis and Free Swelling Index of Cumulative Floats: +28 Mesh

Sp. Gr.	Wt. %	Ash %	V.M. %	R.M. %	F.C. %	F.S.I. *
- 1.30	5.20	3.12	21.30	0.97	74.61	9+
+ 1.35	11.54	4.80	20.01	0.97	74.22	8
+ 1.40	16.06	6.31	19.67	0.96	73.06	7½
- 1.45	19.90	8.10	19.37	0.96	71.57	6
- 1.50	22.74	9.55	19.15	0.96	70.34	4½
- 1.55	27.04	11.91	18.84	0.96	68.29	4
- 1.60	33.35	15.55	18.38	0.95	65.12	4
- 1.70	42.47	19.95	17.80	0.95	61.30	3½
- 1.80	47.50	22.52	17.51	0.95	59.02	3
Totals	100.00	53.37	13.30	0.93	32.40	1

* F.S.I. by actual determination.

DENISON MINES LTD.

Drill Hole #SD-7102
Footage: 999.2' - 1004.5' (D508)

T A B L E 6: Washability Data: +28 Mesh

Specific Gravity	Fractional		Cumulative				Elementary Ash	
	Wt. %	Ash %	Floats		Sinks		Wt. %	Ash %
			Wt. %	Ash %	Wt. %	Ash %		
- 1.30	5.20	3.12	5.20	3.12	100.00	53.37	2.60	3.12
1.30 - 1.35	6.34	6.18	11.54	4.80	94.80	56.12	8.47	6.18
1.35 - 1.40	4.52	10.17	16.06	6.31	88.46	59.70	13.80	10.17
1.40 - 1.45	3.84	15.56	19.90	8.10	83.94	62.37	17.98	16.56
1.45 - 1.50	2.84	19.73	22.74	9.55	80.10	64.61	21.32	19.73
1.50 - 1.55	4.30	24.41	27.04	11.91	77.26	66.26	24.89	24.41
1.55 - 1.60	6.31	31.15	33.35	15.55	72.96	68.73	30.19	31.15
1.60 - 1.70	9.12	36.03	42.47	19.95	66.65	72.29	37.91	36.03
1.70 - 1.80	5.03	44.25	47.50	22.52	57.53	78.03	44.99	44.25
+ 1.80	52.50	81.27	100.00	53.37	52.50	81.27	73.75	81.27
Total	100.00	53.37						

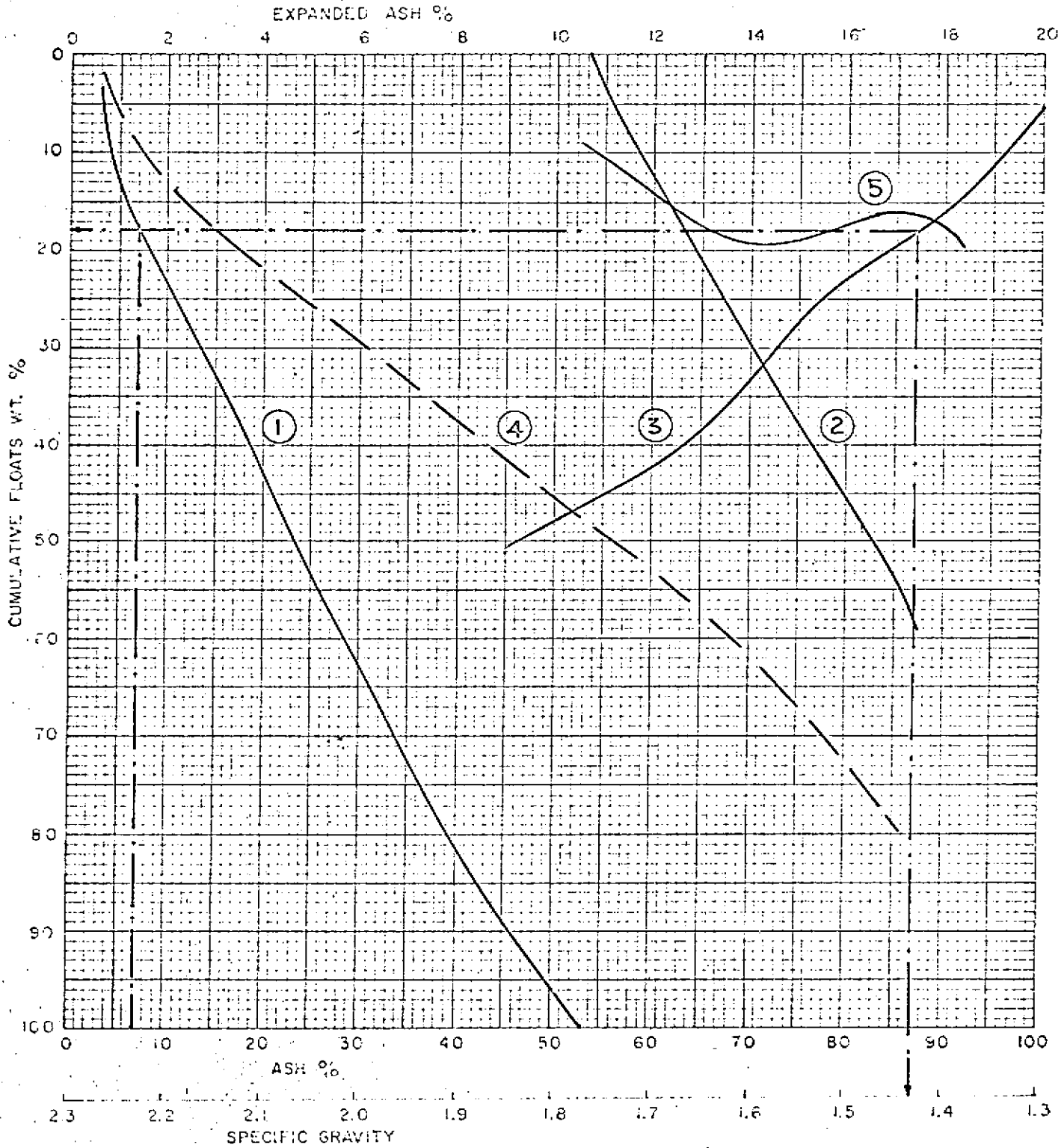
FIGURE

COMPANY Denison Mines Ltd.
DRILL HOLE # SD-7102
FOOTAGE 999.2' - 1004.5' (D508)

CURVE LEGEND

- 1 FLOATS
- 2 SINKS
- 3 SPECIFIC GRAVITY
- 4 ELEMENTARY ASH
- 5 NEAR GRAVITY MATERIAL
- 6 EXPANDED FLOATS

WASHABILITY CURVES



DATE March 20, 1972.

CYCLONE ENGINEERING SALES LTD.
EDMONTON ALBERTA CANADA

DENISON MINES LTD.

Drill Hole #SD-7102

Footage: 999.2' - 1004.5' (D508)

T A B L E 7: Head Analysis of -28 Mesh

Ash	28.36%
Volatile Matter	17.34%
Residual Moisture	0.94%
Fixed Carbon	53.36%
F.S.I.	4

March 17, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7102

Footage: 999.2' - 1004.5' (D508)

T A B L E 8: Float-Sink of 28 x 100 Mesh and Proximate Analysis of Fractions

Specific Gravity	Wt. %	Ash %	V.M. %	F.C. %	Cum. Weight % Floats	Cum. Ash %	Cum. F.S.I.
- 1.40	47.46	4.55	21.86	73.59	47.46	4.55	8½
1.40 - 1.60	19.25	20.00	17.32	62.68	66.71	9.01	8
1.60 - 1.80	7.74	38.15	15.58	46.27	74.45	12.04	7
+ 1.80	25.55	75.84	10.87	13.29	100.00	28.34	4
Total	100.00	28.34	17.69	53.97			

March 17, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7102

Footage: 999.2' - 1004.5' (D508)

T A B L E 9: Froth Flotation Test on -28 Mesh

Solids, by weight in Slurry	8%
Time of Flotation	1.5 minutes
Flotation Recovery	62.59%
Reagents	MIBC & Kerosene

Analyses of the Products

	<u>Concentrate</u>	<u>Tailings</u>
Ash, %	9.92	60.19
Volatile Matter, %	19.40	
Residual Moisture, %	0.93	
Fixed Carbon, %	69.75	
F.S.I.	8	
Sulphur, %	0.45	

March 17, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7102

Footage: 999.2' - 1004.5' (D508)

CLEAN COAL COMPOSITE

Specific Gravity at 7% Ash for +28 Mesh	1.43
Yield of Floats at 7% Ash in +28 Mesh	<u>18.00%</u>
Weight % of Floats at 1.43 in the Composite Clean Coal	43.40%
Weight % of Flotation Concentrate in Composite Clean Coal	56.60%

T A B L E 10: Proximate Analysis of Clean Coal Composite

Ash	<u>8.74%</u>
Volatile Matter	19.48%
Residual Moisture	0.95%
Fixed Carbon	70.83%
F.S.I.	7½
Sulphur	0.17%

March 17, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7102
Footage: 1004.5' - 1014.0' (D509)

T A B L E 1: Raw Sample Analysis

Ash	26.04%
Volatile Matter	19.08%
Residual Moisture	1.04%
Fixed Carbon	53.84%
F.S.I.	4½
B.T.U./lb.	11,250
Sulphur	0.31%

March 17, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7102

Footage: 1004.5' - 1014.0' (D509)

T A B L E 2: Size Consist of Head Sample

	<u>Weight %</u>
+28 Mesh	62.32
28 x 100 Mesh	24.02
-100 Mesh	<u>13.66</u>
Total	<u>100.00</u>

March 17, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7102

Footage: 1004.5' 1014.0' (D509)

T A B L E 3: Head Analysis of +28 Mesh

Ash	25.06%
Volatiles	19.20%
Residual Moisture	0.88%
Fixed Carbon	54.86%
F.S.I.	4½

March 17, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7102
Footage: 1004.5' - 1014.0' (D509)

T A B L E 4: Weight %, Proximate Analysis of Specific Gravity Fractions: +28 Mesh

Sp. Gr.	Wt. %	Ash %	V.M. %	R.M. %	F.C. %
- 1.30	28.60	3.00	23.73	1.02	72.25
1.30 - 1.35	15.44	6.18	19.94	1.04	72.84
1.35 - 1.40	5.10	10.29	19.42	1.03	69.26
1.40 - 1.45	5.26	14.91	18.26	1.02	65.81
1.45 - 1.50	6.65	21.04	17.72	1.02	60.22
1.50 - 1.60	6.81	27.56	18.51	1.03	52.90
1.60 - 1.70	5.27	33.16	18.05	0.98	47.81
1.70 - 1.80	4.43	40.53	17.98	0.99	40.50
+ 1.80	22.44	66.44	14.69	0.96	17.91
Total	100.00	24.85	19.30	1.01	54.84

DENISON MINES LTD.

Drill Hole #SD-7102

Footage: 1004.5' - 1014.0' (D509)

T A B L E 5: Weight %, Proximate Analysis and Free Swelling Index of Cumulative Floats: +28 Mesh

Sp. Gr.	Wt. %	Ash %	V.M. %	R.M. %	F.C.	F.S.I.*
- 1.30	28.60	3.00	23.73	1.02	72.25	9+
1.35	44.04	4.11	22.40	1.03	72.46	9+
- 1.40	49.14	4.76	22.09	1.03	72.12	9
- 1.45	54.40	5.74	21.72	1.03	71.51	8½
- 1.50	61.05	7.40	21.29	1.03	70.28	8½
- 1.60	67.86	9.43	21.01	1.03	68.53	8
- 1.70	73.13	11.14	20.79	1.02	67.05	7½
- 1.80	77.56	12.82	20.63	1.02	65.53	7
Total	100.00	24.85	19.30	1.01	54.84	4½

* F.S.I. by actual determination.

March 17, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7102
Footage: 1004.5' - 1014.0' (D509)

T A B L E 6: Washability Data

Specific Gravity	Fractional		Cumulative				Elementary Ash	
	Wt. %	Ash %	Floats		Sinks		Wt. %	Ash %
			Wt. %	Ash %	Wt. %	Ash %		
- 1.30	28.60	3.00	28.60	3.00	100.00	24.85	14.30	3.00
1.30 - 1.35	15.44	6.18	44.04	4.11	71.40	33.60	36.32	6.18
1.35 - 1.40	5.10	10.29	49.14	4.76	55.96	41.17	46.59	10.29
1.40 - 1.45	5.26	14.91	54.40	5.74	50.86	44.26	51.77	14.91
1.45 - 1.50	6.65	21.04	61.05	7.40	45.60	57.65	57.72	21.04
1.50 - 1.60	6.81	27.56	67.86	9.43	38.95	52.19	64.46	27.56
1.60 - 1.70	5.27	33.16	73.13	11.14	32.14	57.41	70.49	33.16
1.70 - 1.80	4.43	40.53	77.56	12.82	26.87	62.17	75.35	40.53
+ 1.80	22.44	66.44	100.00	24.85	22.44	66.44	88.78	66.44
Total	100.00	24.85						

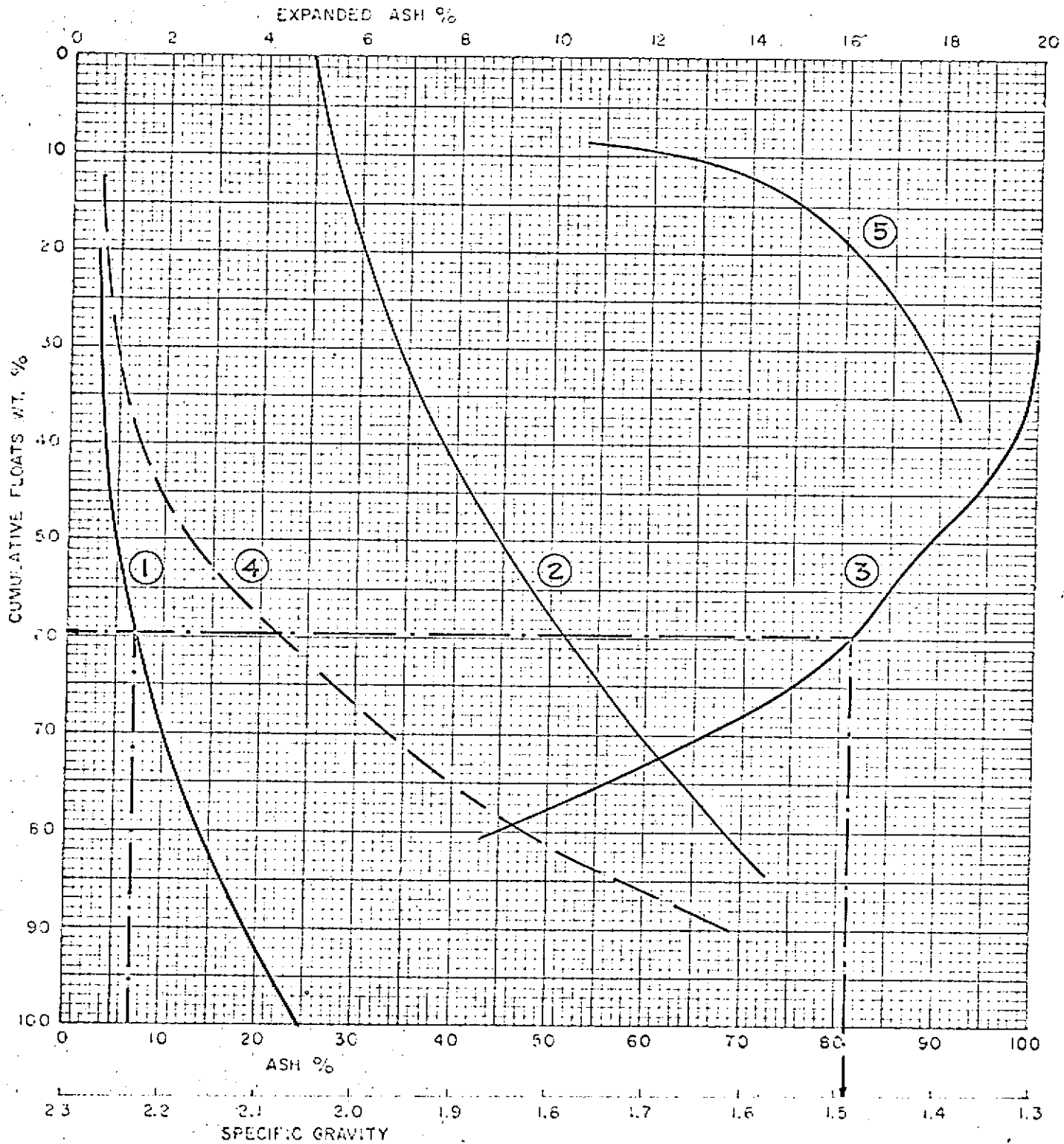
FIGURE

COMPANY Denison Mines Ltd.
DRILL HOLE # SD-7102
FOOTAGE 1004.5' - 1014.0' (D509)

CURVE LEGEND

- 1 FLOATS
- 2 SINKS
- 3 SPECIFIC GRAVITY
- 4 ELEMENTARY ASH
- 5 NEAR GRAVITY MATERIAL
- 6 EXPANDED FLOATS

WASHABILITY CURVES



DATE : March 20, 1972.

CYCLORE ENGINEERING SALES LTD.
EDMONTON ALBERTA CANADA

DENISON MINES LTD.

Drill Hole #SD-7102

Footage: 1004.5' - 1014.0' (D509)

T A B L E 7: Head Analysis of -28 Mesh

Ash	26.45%
Volatile Matter	18.97%
Residual Moisture	1.30%
Fixed Carbon	53.28%
F.S.I.	4½

March 20, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7102

Footage: 1004.5' - 1014.0' (D509)

T A B L E 8: Float-Sink of 28 x 100 Mesh and Proximate Analysis of Fractions

Specific Gravity	Wt. %	Ash %	V.M. %	F.C. %	Cum. Wt. % Floats	Cum. Ash %	Cum. F.S.I.
- 1.40	49.98	5.23	23.98	70.79	48.98	5.23	9
1.40 - 1.60	21.90	22.20	17.99	59.81	70.88	10.47	8½
1.60 - 1.80	10.14	40.61	15.08	44.31	81.02	14.25	7½
+ 1.80	18.98	66.49	11.13	22.38	100.00	24.17	4½
Total	100.00	24.17	19.33	56.50			

March 20, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7102

Footage: 1004.5' - 1014.0' (D509)

T A B L E 9: Froth Flotation Test on -28 Mesh

Solids, by weight in Slurry	8%
Time of Flotation	1.5 minutes
Flotation Recovery	73.90%
Reagents	MIBC & Kerosene

Analysis of the Products

	<u>Concentrate</u>	<u>Tailings</u>
Ash, %	14.77	58.08
Volatile Matter, %	19.34	
Residual Moisture, %	1.25	
Fixed Carbon, %	64.64	
F.S.I.	8	
Sulphur, %	0.63	

March 20, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7102

Footage: 1004.5' - 1014.0' (D509)

CLEAN COAL COMPOSITE

Specific Gravity at 7% Ash for +28 Mesh	1.49
Yield of Floats at 7% Ash in +28 Mesh	<u>59.50%</u>
Weight % of Floats at 1.49 in the Composite Clean Coal	57.20%
Weight % of Flotation Concentrate in Composite Clean Coal	42.80%

T A B L E 10: Proximate Analysis of Clean Coal Composite

Ash	<u>9.89%</u>
Volatile Matter	20.68%
Residual Moisture	1.11%
Fixed Carbon	68.32%
F.S.I.	8½
Sulphur	0.23%

March 20, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7102
Footage: 1070.5' - 1087.5' (D510)

T A B L E 1: Raw Sample Analysis

Ash	9.53%
Volatile Matter	21.04%
Residual Moisture	0.45%
Fixed Carbon	68.98%
F.S.I.	4½
B.T.U./lb.	13,890
Sulphur	0.28%

March 21, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7102
Footage: 1070.5' - 1087.5' (D510)

T A B L E 2: Size Consist of Head Sample

	<u>Weight %</u>
+28 Mesh	76.69
28 x 100 m.	16.27
-100 mesh	<u>7.04</u>
Total	<u>100.00</u>

March 21, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISEN MINES LTD.

Drill Hole #SD-7102

Footage: 1070.5' - 1087.5' (D510)

T A B L E 3: Head Analysis of +28 Mesh

Ash	9.84%
Volatile Matter	21.14%
Residual Moisture	0.46%
Fixed Carbon	68.56%
F.S.I.	4

DENISON MINES LTD.

Drill Hole #SD-7102

Footage: 1070.5' - 1087.5' (D510)

T A B L E 4: Weight % and Proximate Analysis of Specific Gravity Fractions: +28 Mesh

Sp. Gr.	Wt. %	Ash %	V.M. %	R.M. %	F.C. %
- 1.30	26.28	2.32	22.00	0.57	75.11
1.30 - 1.35	35.72	6.69	20.93	0.55	71.83
1.35 - 1.40	15.25	10.34	19.38	0.55	69.73
1.40 - 1.45	8.65	14.85	18.14	0.51	66.50
1.45 - 1.50	3.57	17.30	22.70	0.50	59.50
1.50 - 1.60	3.87	20.85	26.09	0.49	52.57
1.60 - 1.70	2.38	25.11	28.20	0.50	46.19
1.70 - 1.80	1.71	27.81	28.06	0.48	43.65
+ 1.80	2.57	48.73	26.08	0.52	24.67
Total	100.00	9.61	21.42	0.54	68.43

March 21, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7102

Footage: 1070.5' 1087.5' (D510)

T A B L E 5: Weight %, Proximate Analysis and Free Swelling
Index of Cumulative Floats: +28 Mesh

Sp. Gr.	Wt. %	Ash %	V.M. %	R.M. %	F.C. %	F.S.I. *
- 1.30	26.28	2.32	22.00	0.57	75.11	8½
- 1.35	62.00	4.84	21.38	0.56	73.22	8
- 1.40	77.25	5.92	20.99	0.56	72.53	7½
- 1.45	85.90	6.82	20.70	0.55	71.93	7
- 1.50	89.47	7.24	20.78	0.55	71.43	7
- 1.60	93.34	7.80	21.00	0.55	70.65	6
- 1.70	95.72	8.24	21.18	0.55	70.03	5
- 1.80	97.43	8.58	21.30	0.55	69.57	4½
Total	100.00	9.61	21.42	0.54	68.43	4

* F.S.I. by actual determination.

DENISON MINES LTD.

Drill Hole #SD-7102
Footage: 1070.5' - 1087.5' (D510)

T A B L E 6: Washability Data: +28 Mesh

Specific Gravity	Fractional		Cumulative				Elementary Ash	
	Wt. %	Ash %	Floats		Sinks		Wt. %	Ash %
			Wt. %	Ash %	Wt. %	Ash %		
- 1.30	26.28	2.32	26.28	2.32	100.00	9.61	13.14	2.32
1.30 - 1.35	35.72	6.69	62.00	4.84	73.72	12.21	44.41	6.69
- 1.35 - 1.40	15.25	10.34	77.25	5.92	38.00	17.40	69.62	10.34
- 1.40 - 1.45	8.65	14.85	85.90	6.82	22.75	22.13	81.58	14.85
1.45 - 1.50	3.57	17.30	89.47	7.24	14.10	26.60	87.68	17.30
1.50 - 1.60	3.87	20.85	93.34	7.80	10.53	29.75	91.41	20.85
1.60 - 1.70	2.38	25.11	95.72	8.24	6.66	34.92	94.53	25.11
1.70 - 1.80	1.71	27.81	97.43	8.58	4.28	40.37	96.57	27.81
+ 1.80	2.57	48.73	100.00	9.61	2.57	48.73	98.72	48.73
Total	100.00	9.61						

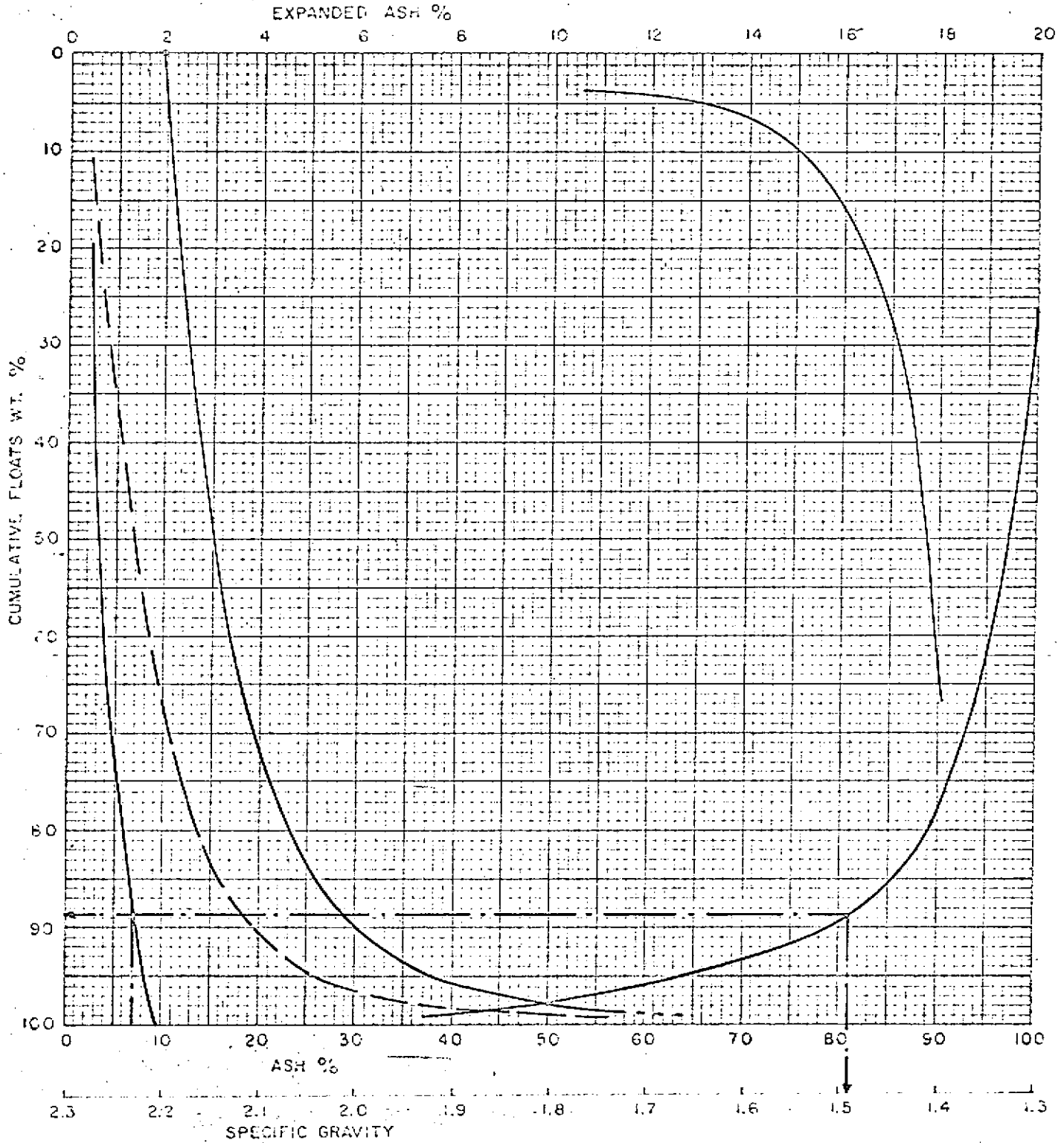
FIGURE

COMPANY Denison Mines Ltd.
DRILL HOLE # SD-7102
FOOTAGE 1070.5' - 1087.5' (D510)

CURVE LEGEND

- 1 FLOATS
- 2 SINKS
- 3 SPECIFIC GRAVITY
- 4 ELEMENTARY ASH
- 5 NEAR GRAVITY MATERIAL
- 6 EXPANDED FLOATS

WASHABILITY CURVES



DATE : March 21, 1972.

CYCLONE ENGINEERING SALES LTD.
EDMONTON ALBERTA CANADA

DENISON MINES LTD.

Drill Hole #SD-7102
Footage: 1070.5' 1087.5' (D510)

T A B L E 7: Head Analysis of -28 Mesh

Ash	8.64%
Volatile Matter	20.82%
Residual Moisture	0.44%
Fixed Carbon	70.10%
F.S.I.	6½

March 21, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7102

Footage: 1070.5' 1087.5' (D510)

Specific Gravity	Wt. %	Ash %	V.M. %	F.C. %	Cum. Weight % Fbats	Cum. Ash %	Cum. F.S.I.
- 1.40	82.43	3.99	20.80	75.21	82.43	3.99	8½
1.40 - 1.60	13.11	16.28	19.90	63.82	95.54	5.68	8
1.60 - 1.80	1.83	29.11	25.45	45.44	97.37	6.12	7½
+ 1.80	2.63	53.91	30.92	15.17	100.00	7.37	6½
Total	100.00	7.37	21.03	71.60			

March 21, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7102

Footage: 1070.5' 1087.5' (D510)

T A B L E 9: Froth Flotation Test on -28 Mesh

Solids, by weight in Slurry	8%
Time of Flotation	1.5 minutes
Flotation Recovery	93.15%
Reagents	MIBC & Kerosene

Analyses of the Products

	<u>Concentrate</u>	<u>Tailings</u>
Ash, %	6.62	31.01
Volatile Matter, %	20.76	
Residual Moisture, %	0.45	
Fixed Carbon, %	72.17	
F.S.I.	7	
Supphur, %	0.33	

March 21, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7102

Footage: 1070.5' 1087.5' (D510)

CLEAN COAL COMPOSITE

Specific Gravity at 7% Ash for +28 Mesh	1.49
Yield of Floats at 7% Ash in +28 Mesh	<u>88.80%</u>
Weight % of Floats at 1.49 in the Composite Clean Coal	75.80%
Weight % of Flotation Concentrate in Composite Clean Coal	24.20%

T A B L E 10: Proximate Analysis of Clean Coal Composite

Ash	<u>6.96%</u>
Volatiles Matter	20.89%
Residual Moisture	0.54%
Fixed Carbon	71.61%
F.S.I.	7
Sulphur	0.23%

March 21, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

BOREHOLE SAMPLES:

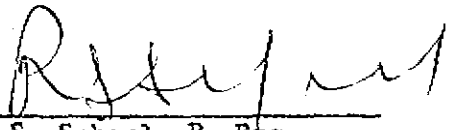
REPORT OF ANALYSES ON RAW MATERIAL

CLIENT: Denison Mines Ltd.	DATE: Feb. 22, 1972.
PROJECT: Saxon	C.E.S PROJECT NO.: SI-84
CLIENT SAMPLE NO.: D-7102 1070.5' - 1087.5'	C.E.S. SAMPLE NO.: SB-11
ANALYSES ON AIR DRY BASIS:	
ASH:	9.17%
VOLATILE MATTER:	
RESIDUAL MOISTURE:	
FIXED CARBON:	
FREE SWELLING INDEX:	4
B.T.U./lb.:	
SULPHUR:	
RANK:	
REMARKS:	

C.E.S. Form 17

CYCLONE ENGINEERING SALES LTD.

Per:


R.S. Sehgal, P. Eng.
Laboratory Manager

BOREHOLE SAMPLES:

REPORT OF ANALYSES ON RAW MATERIAL

CLIENT: Denison Mines Ltd.	DATE: Feb. 22, 1972.
PROJECT: Saxon	C.E.S PROJECT NO.: SI-84
CLIENT SAMPLE NO.: D-7102 1070.5' - 1087.5'	C.E.S. SAMPLE NO.: SB-11
ANALYSES ON AIR DRY BASIS:	
ASH:	9.17%
VOLATILE MATTER:	
RESIDUAL MOISTURE:	
FIXED CARBON:	
FREE SWELLING INDEX:	4
B.T.U./lb.:	
SULPHUR:	
RANK:	
REMARKS:	

C.E.S. Form 17

CYCLONE ENGINEERING SALES LTD.

Per: R.S. Sehgal, P. Eng.
Laboratory Manager

DENISON MINES LTD.

Drill Hole #SD-7103

Footage: 990.5' - 1000.0' (D283)

T A B L E 1: Raw Sample Analysis

Ash	55.88%
Volatile Matter	13.70%
Residual Moisture	0.64%
Fixed Carbon	29.78%
F.S.I.	2
B.T.U./lb.	5,580
Sulphur	0.73%

March 21, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7103

Footage: 990.5' - 1000.0' (D283)

T A B L E 2: Size Consist of Head Sample

	<u>Weight %</u>
+28 Mesh	77.59
28 x 100 Mesh	14.96
-100 Mesh	<u>7.45</u>
Total	<u>100.00</u>

March 21, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7103

Footage: 990.5' - 1000.0' (D283)

T A B L E 3: Head Analysis of +28 Mesh

Ash	58.44%
Volatile Matter	13.49%
Residual Moisture	0.62%
Fixed Carbon	27.45%
F.S.I.	1½

March 21, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7103

Footage: 990.5' 1000.0' (QD283)

T A B L E 4: Weight % and Proximate Analysis of Specific Gravity Fractions: +28 Mesh

Sp. Gr.	Wt. %	Ash %	V.M. %	R.M. %	F.C. %
- 1.30	15.83	3.34	23.79	0.69	72.18
1.30 - 1.35	6.15	6.94	23.37	0.70	68.99
1.35 - 1.40	3.08	12.18	20.50	0.64	66.68
1.40 - 1.45	1.84	17.16	20.22	0.63	61.99
1.45 - 1.50	1.85	22.25	19.54	0.63	57.58
1.50 - 1.60	3.75	30.69	17.17	0.66	51.48
1.60 - 1.70	2.57	38.16	16.26	0.60	44.98
1.70 - 1.80	2.35	45.32	15.88	0.58	38.22
+ 1.80	62.58	83.75	9.50	0.66	6.09
Total	100.00	57.67	13.95	0.66	27.72

March 21, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7103

Footage: 990.5' - 1000.0' (D283)

T A B L E 5: Weight %, Proximate Analysis and Free Swelling Index of Cumulative Floats: +28 Mesh

Sp. Gr.	Wt. %	Ash %	V.M. %	R.M. %	F.C. %	F.S.I.*
- 1.30	15.83	3.34	23.79	0.69	72.18	9+
- 1.35	21.98	4.35	23.67	0.69	71.29	9
- 1.40	25.06	5.31	23.28	0.69	70.72	9
- 1.45	26.90	6.12	23.07	0.68	70.13	9½
- 1.50	28.75	7.16	22.85	0.68	69.31	8½
- 1.60	32.50	9.87	22.19	0.68	67.26	8
- 1.70	35.07	11.95	21.76	0.67	65.62	8
- 1.80	37.42	14.04	21.39	0.67	63.90	7½
Total	100.00	57.67	13.95	0.66	27.72	1½

*F.S.I. by actual determination.

March 21, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7103

Footage: 990.5' 1000.0' (D283)

T A B L E 6: Washability Data: +28 Mesh

Specific Gravity	Fractional		Cumulative				Elementary Ash	
	Wt. %	Ash %	Floats		Sinks		Wt. %	Ash %
			Wt. %	Ash %	Wt. %	Ash %		
- 1.30	15.83	3.34	15.83	3.34	100.00	57.67	7.91	3.34
1.30 - 1.35	6.15	6.94	21.98	4.35	84.17	67.88	18.91	6.94
1.35 - 1.40	3.08	12.18	25.06	5.31	78.02	72.69	23.52	12.18
1.40 - 1.45	1.84	17.16	26.90	6.12	74.94	75.17	25.98	17.16
1.45 - 1.50	1.85	22.25	28.75	7.16	73.10	76.63	27.82	22.25
1.50 - 1.60	3.75	30.69	32.50	9.87	71.25	78.05	30.63	30.69
1.60 - 1.70	2.57	38.16	35.07	11.95	67.50	80.68	33.78	38.16
1.70 - 1.80	2.35	45.32	37.42	14.04	64.93	82.36	36.25	45.32
+ 1.80	62.58	83.75	100.00	57.67	62.58	83.75	68.71	83.75
Total	100.00	57.67						

March 21, 1972.

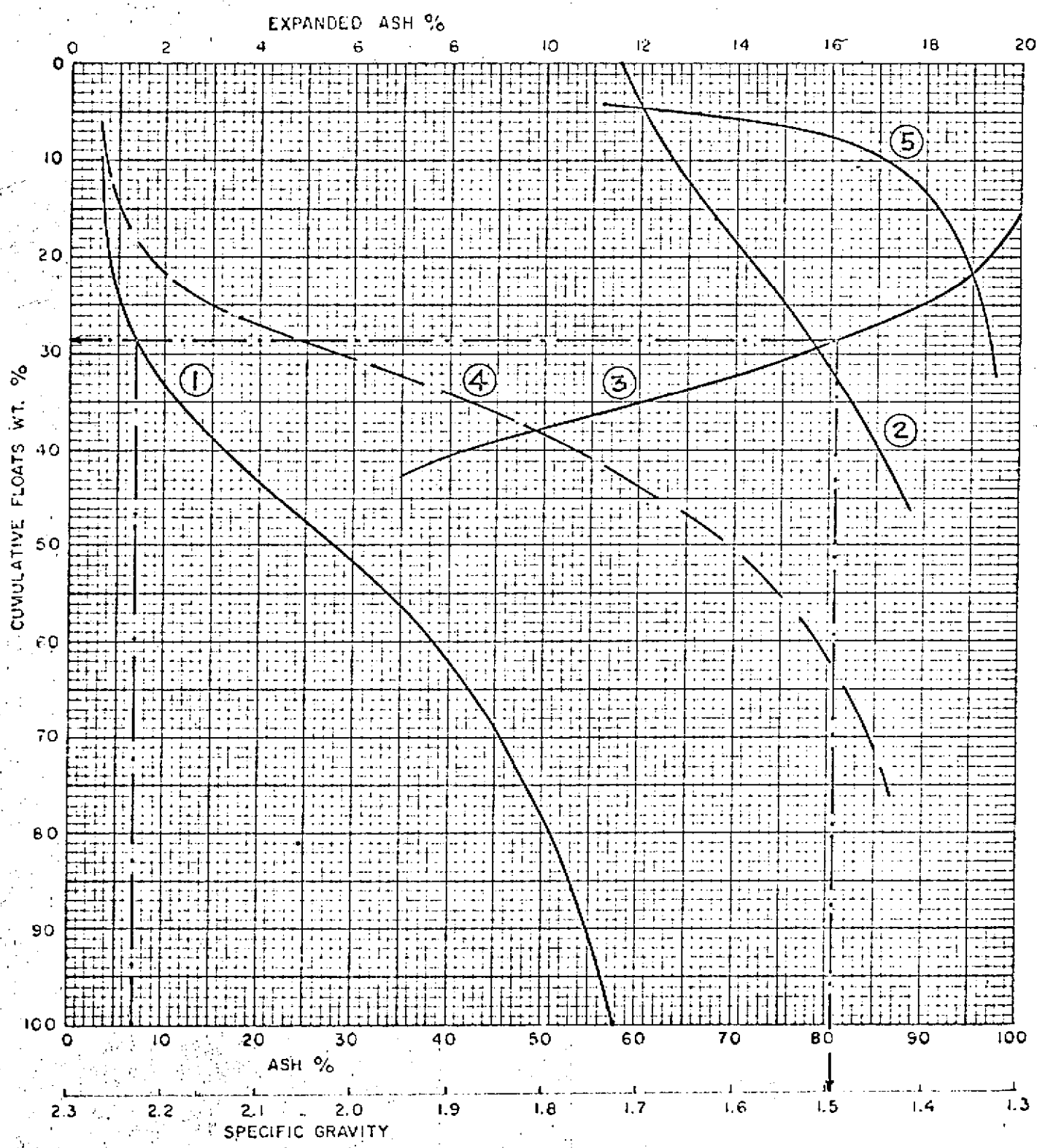
CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

FIGURE

COMPANY Denison Mines Ltd.
 DRILL HOLE # SD-7103
 FOOTAGE 990.5' - 1000.0' (D283)

- CURVE LEGEND
- 1 FLOATS
 - 2 SINKS
 - 3 SPECIFIC GRAVITY
 - 4 ELEMENTARY ASH
 - 5 NEAR GRAVITY MATERIAL
 - 6 EXPANDED FLOATS

WASHABILITY CURVES



DATE: March 27, 1972.

CYCLONE ENGINEERING SALES LTD.
 EDMONTON ALBERTA CANADA

DENISON MINES LTD.

Drill Hole #SD-7103
Footage: 990.5' - 1000.0' (D283)

T A B L E 7: Head Analysis of -28 Mesh

Ash	43.32%
Volatile Matter	17.13%
Residual Moisture	0.51%
Fixed Carbon	39.04%
F.S.I.	6

March 21, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7103

Footage: 990.5' - 1000.0' (D283)

T A B L E 8: Float-Sink of 28 x 100 Mesh and Proximate Analysis of Fractions

Specific Gravity					Cum. Weight % Floats	Cum. Ash %	Cum. F.S.I.
	Wt. %	Ash %	V.M. %	F.C. %			
- 1.40	44.54	5.01	24.27	70.72	44.54	5.01	9+
1.40 - 1.60	9.79	23.11	19.09	57.80	54.33	8.27	9+
1.60 - 1.80	5.05	42.05	16.15	41.80	59.38	11.14	9+
+ 1.80	40.62	82.54	9.56	7.90	100.00	40.15	6
Total	100.00	40.15	17.38	42.47			

March 21, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7103

Footage: 990.5' - 1000.0' (D283)

T A B L E 9: Froth Flotation Test on -28 Mesh

Solids, by weight in Slurry	8%
Time of Flotation	1.5 minutes
Flotation Recovery	53.84%
Reagents	MIBC & Kerosene

Analysis of the Products

	<u>Concentrate</u>	<u>Tailings</u>
Ash, %	15.79	74.33
Volatile Matter, %	21.12	
Residual Moisture, %	0.51	
Fixed Carbon, %	62.58	
F.S.I.	8½	
Sulphur, %	0.99	

March 21, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7103

Footage: 990.3' - 1000.0' (D283)

CLEAN COAL COMPOSITE

Specific Gravity at 7% Ash for +28 Mesh	1.49
Yield of Floats at 7% Ash in +28 Mesh	<u>28.40%</u>
Weight % of Floats at 1.49 in the Composite Clean Coal	64.50
Weight % of Flotation Concentrate in Composite Clean Coal.	35.50

T A B L E 10: Proximate Analysis of Clean Coal Composite

Ash	<u>8.99%</u>
Volatile Matter	22.13%
Residual Moisture	0.59%
Fixed Carbon	68.29%
F.S.I.	8½
Sulphur	0.62%

March 21, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7103
Footage: 1130.0' - 1135.0' (D285)

T A B L E 1: Raw Sample Analysis

Ash	42.30%
Volatile Matter	17.65%
Residual Moisture	0.45%
Fixed Carbon	39.60%
F.S.I.	3
B.T.U./lb.	7,890
Sulphur	0.36%

March 22, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7103

Footage: 1130.0' - 1135.0' (D285)

T A B L E 2: Size Consist of Head Sample

	<u>Weight %</u>
+28 Mesh	73.44
28 x 100 Mesh	16.75
-100 Mesh	<u>9.81</u>
Total	<u>100.00</u>

March 22, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7103

Footage: 1130.0' - 1135.0' (D285)

T A B L E 3: Head Analysis of +28 Mesh

Ash	46.22%
Volatile Matter	17.01%
Residual Moisture	0.49%
Fixed Carbon	36.28%
F.S.I.	2½

March 22, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7103

Footage: 1130.0' - 1135.0' (D-285)

T A B L E 4: Weight % and Proximate Analysis of Specific Gravity Fractions: +28 Mesh.

Sp. Gr.	Wt. %	Ash %	V.M. %	R.M. %	F.C. %
- 1.40	18.65	2.77	23.09	0.60	73.54
1.40 - 1.35	10.84	6.16	21.64	0.58	71.62
1.35 - 1.40	6.42	10.44	19.86	0.59	69.11
1.40 - 1.45	4.85	15.26	17.94	0.54	66.26
1.45 - 1.50	3.37	20.08	17.56	0.49	61.87
1.50 - 1.60	3.92	28.40	17.03	0.50	54.07
1.60 - 1.70	2.69	37.13	15.96	0.48	46.43
1.70 - 1.80	1.72	46.13	15.46	0.48	37.93
+ 1.80	47.54	82.33	13.77	0.56	3.34
Total	100.00	45.32	17.30	0.56	36.82

DENISON MINES LTD.

Drill Hole #SD-7103

Footage: 1130.0' - 1135.0' (D-285)

T A B L E 5: Weight %, Proximate Analysis and Free Swelling
Index of Cumulative Floats: + 28 Mesh.

Sp. Gr.	Wt. %	Ash %	V.M. %	R.M. %	F.C. %	F.S.I.*
- 1.30	18.65	2.77	23.09	0.60	73.54	9+
- 1.35	29.49	4.02	22.56	0.59	72.83	9
- 1.40	35.91	5.16	22.07	0.59	72.18	8½
- 1.45	40.76	6.37	21.58	0.59	71.46	8½
- 1.50	44.13	7.41	21.28	0.58	70.73	8
- 1.60	48.05	9.13	20.93	0.57	67.37	8
- 1.70	50.74	10.61	20.67	0.57	68.15	7½
- 1.80	52.46	11.77	20.50	0.56	67.17	7
Total	100.00	45.32	17.30	0.56	36.82	2½

* F.S.I. by actual determination.

March 22, 1972

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada

DENISON MINES LTD.

Drill Hole #SD-7103

Footage: 1130.0' - 1135.0' (D-285)

T A B L E 6: Washability Data: + 28 Mesh.

Specific Gravity	Fractional		Cumulative				Elementary Ash	
	Wt. %	Ash %	Floats		Sinks		Wt. %	Ash %
			Wt. %	Ash %	Wt. %	Ash %		
- 1.30	18.65	2.77	18.65	2.77	100.00	45.32	9.32	2.77
1.30 - 1.35	10.84	6.16	29.49	4.02	81.35	55.07	24.07	6.16
1.35 - 1.40	6.42	10.44	35.91	5.16	70.51	62.59	32.70	10.44
1.40 - 1.45	4.85	15.26	40.76	6.37	64.09	67.81	38.34	15.26
1.45 - 1.50	3.37	20.08	44.13	7.41	59.24	72.12	42.44	20.08
1.50 - 1.60	3.92	28.40	48.05	9.13	55.87	75.26	46.09	28.40
1.60 - 1.70	2.69	37.13	50.74	10.61	51.95	78.79	49.40	37.13
1.70 - 1.80	1.72	46.13	52.46	11.77	49.26	81.07	51.60	46.13
+ 1.80	47.54	82.33	100.00	45.32	47.54	82.33	76.23	82.33
Total	100.00	45.32						

March 22, 1972

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada

FIGURE

COMPANY Denison Mines Ltd.

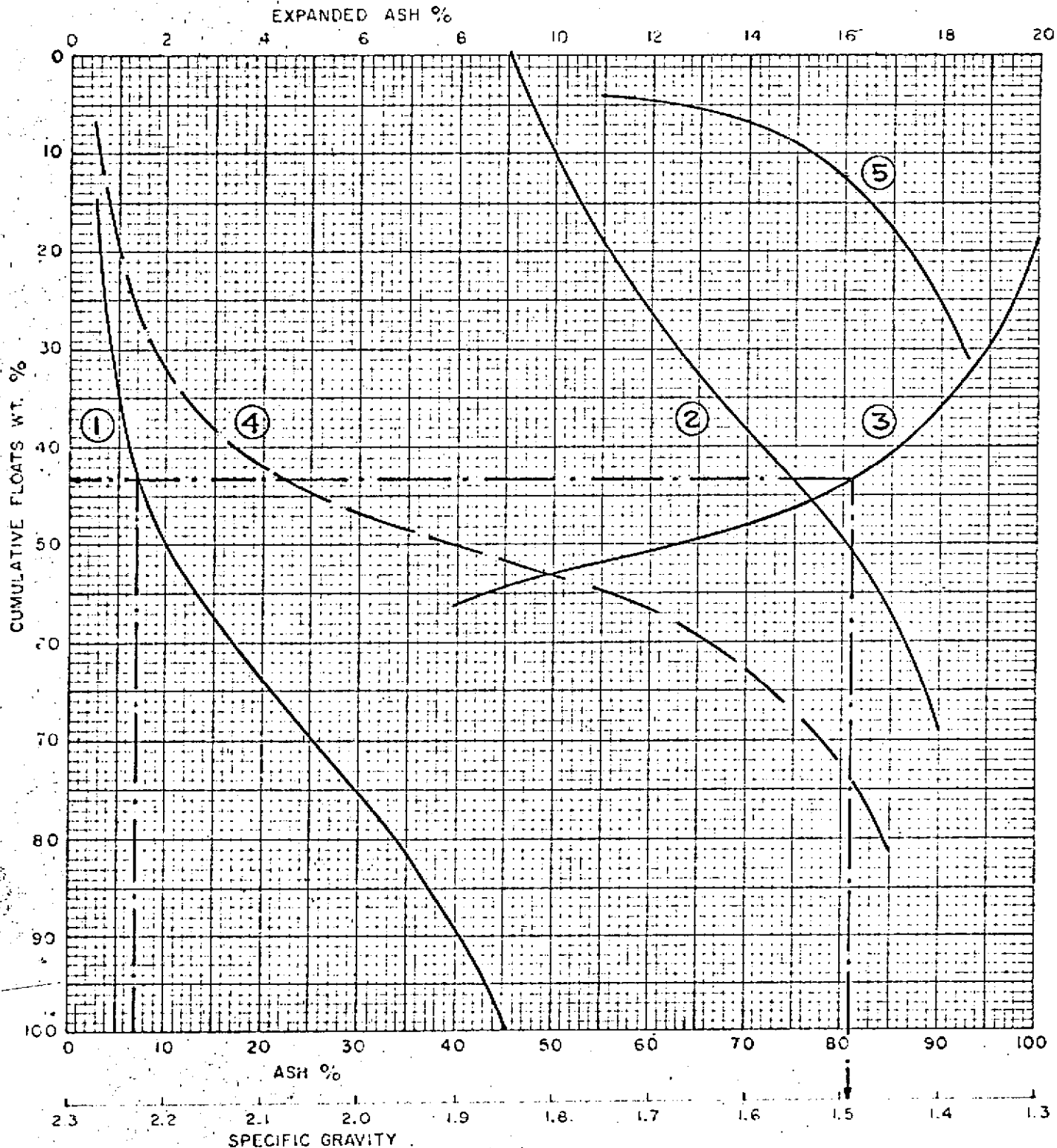
DRILL HOLE # SD-7103

FOOTAGE 1130' - 1135' (D285)

CURVE LEGEND

- 1 FLOATS
- 2 SINKS
- 3 SPECIFIC GRAVITY
- 4 ELEMENTARY ASH
- 5 NEAR GRAVITY MATERIAL
- 6 EXPANDED FLOATS

WASHABILITY CURVES



DATE : March 27, 1972.

CYCLONE ENGINEERING SALES LTD.
EDMONTON ALBERTA CANADA

DENISON MINES LTD.

Drill Hole #SD-7103

Footage: 1130.0' - 1135.0' (D285)

T A B L E 7: Head Analysis of - 28 Mesh.

Ash	28.82%
Volatile Matter	19.39%
Residual Moisture	0.54%
Fixed Carbon	51.25%
F.S.I.	5½

March 22, 1972

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada

DENISON MINES LTD.

Drill Hole #SD-7103

Footage: 1130.0' - 1135.0' (D285)

T A B L E 8: Float-Sink of 28 x 100 Mesh and Proximate Analysis of Fractions.

Specific Gravity	Wt. %	Ash %	V.M. %	F.C. %	Cum. Wt. % Floats	Cum. Ash %	Cum. F.S.I.
- 1.40	55.77	5.39	23.17	71.44	55.77	5.39	9+
1.40 - 1.60	15.55	21.20	18.65	60.15	71.32	8.84	9
1.60 - 1.80	6.38	41.57	16.03	42.40	77.70	11.52	8½
+ 1.80	22.30	77.28	12.95	9.77	100.00	26.19	5½
Total	100.00	26.19	19.73	54.08			

March 22, 1972

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada

DENISON MINES LTD.

Drill Hole #SD-7103

Footage: 1130.0' - 1135.0' (D285)

T A B L E 9: Froth Flotation Test on - 28 Mesh.

Solids, by weight in Slurry	8%
Time of Flotation	1.5 Minutes
Flotation Recovery	59.88%
Reagents	MIBC & Kerosene

Analyses of the Products

	<u>Concentrate</u>	<u>Tailings</u>
Ash, %	12.77	52.37
Volatile Matter, %	21.70	
Residual Moisture, %	0.54	
Fixed Carbon, %	64.99	
F.S.I.	7½	
Sulphur, %	0.55	

March 22, 1972

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada

DENISON MINES LTD.

Drill Hole #SD-7103

Footage: 1130.0' - 1135.0' (D285)

CLEAN COAL COMPOSITE

Specific Gravity at 7% Ash for + 28 Mesh	1.49
Yield of Floats at 7% Ash in + 28 Mesh	<u>43.20%</u>
Weight % of Floats at 1.49 in the Composite Clean Coal	66.60%
Weight % of Flotation Concentrate in Composite Clean Coal	33.40%

T A B L E 10: Proximate Analysis of Clean Coal Composite

Ash	<u>8.84%</u>
Volatile Matter	21.39%
Residual Moisture	0.57%
Fixed Carbon	69.20%
F.S.I.	8
Sulphur	0.31%

March 22, 1972

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada

DENISON MINES LTD.

Drill Hole #SD-7103:

Footage: 1135.0' - 1138.0' (D-287)

T A B L E 1: Raw Sample Analysis

Ash	89.14%
Volatile Matter	5.99%
Residual Moisture	0.92%
Fixed Carbon	3.95%
F.S.I.	N.A.
B.T.U./lb.	-
Sulphur	-

March 22, 1972

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada

DENISON MINES LTD.

Drill Hole #SD-7103

Footage: 1135.0' - 1138.0' (D287)

T A B L E 2: Size Consist of Head Sample

	<u>Weight %</u>
+28 Mesh	74.58
28 x 100 Mesh	18.30
-100 Mesh	<u>7.12</u>
Total	<u>100.00</u>

March 22, 1972

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada

DENISON MINES LTD.

Drill Hole #SD-7103

Footage: 1135.0' - 1138.0' (D287)

T A B L E 3: Head Analysis of + 28 Mesh.

Ash	90.98%
Volatile Matter	5.11%
Residual Moisture	0.95%
Fixed Carbon	2.96%
F.S.I.	N.A.

March 22, 1972

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada

DENISON MINES LTD.

Drill Hole #SD-7103

Footage: 1135.0' - 1138.0' (D287)

T A B L E 7: Head Analysis of - 28 Mesh.

Ash	87.06%
Volatile Matter	6.54%
Residual Moisture	0.99%
Fixed Carbon	5.41%
F.S.I.	N.A.

March 22, 1972

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada

DENISON MINES LTD.

Drill Hole #SD-7103

Footage: 1138.0' - 1140.3' (D289)

T A B L E 7: Head Analysis of - 28 Mesh.

Ash	34.50%
Volatile Matter	17.90%
Residual Moisture	0.47%
Fixed Carbon	47.13%
F.S.I.	3½

March 22, 1972

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada

DENISON MINES LTD.

Drill Hole #SD-7103

Footage: 1138.0' - 1140.3' (D289)

T A B L E 8: Float-Sink of 28 x 100 Mesh and Proximate Analysis of Fractions.

Specific Gravity	Wt. %	Ash %	V.M. %	F.C. %	Cum.	Cum.	Cum.
					Wt. % Floats		
- 1.40							
1.40 - 1.60							
1.60 - 1.80							
+ 1.80							
Total							

NOTE: NOT SUFFICIENT SAMPLE AVAILABLE TO COMPLETE THESE ANALYSES

March 22, 1972

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada

DENISON MINES LTD.

Drill Hole #SD-7103

Footage: 1138.0' - 1140.3' (D289)

T A B L E 9: Froth Flotation Test on - 28 Mesh

Solids, by weight in Slurry	8%
Time of Flotation	1.5 minutes
Flotation Recovery	40.24%
Reagents	MIBC & Kerosene

Analysis of the Products

	<u>Concentrate</u>	<u>Tailings</u>
Ash, %	18.55	46.01
Volatile Matter, %	18.98	
Residual Moisture, %	0.47	
Fixed Carbon, %	62.00	
F.S.I.	4½	
Sulphur, %	0.57	

March 22, 1972

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada

DENISON MINES.

Drill Hole #SD-7103

Footage: 1138.0' - 1140.3' (D289)

CLEAN COAL COMPOSITE

Specific Gravity at 7% Ash for +28 Mesh	1.49
Yield of Floats at 7% Ash in +28 Mesh	46.00%
Weight of Floats at 1.49 in the Composite Clean Coal	80.80%
Weight % of Flotation Concentrate in Composite Clean Coal	19.20

T A B L E 10: Proximate Analysis of Clean Coal Composite

Ash	9.11%
Volatile Matter	19.98%
Residual Moisture	0.46%
Fixed Carbon	70.45%
F.S.I.	7
Sulphur	0.41%

March 29, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

KWS

DENISON MINES LTD.

Drill Hole #SD-7103

Footage: 1138.0' - 1140.3' (D289)

T A B L E 1: Raw Sample Analysis

Ash	42.27%
Volatile Matter	17.30%
Residual Moisture	0.49%
Fixed Carbon	39.94%
F.S.I.	2½
B.T.U./lb.	7,850
Sulphur	0.47%

March 22, 1972

CYCLONE ENGINEERING SAELS LTD.
Edmonton, Alberta, Canada

DENISON MINES LTD.

Drill Hole #SD-7103:

Footage: 1138.0' - 1140.3' (S289)

T A B L E 2: Size Consist of Head Sample

	<u>Weight %</u>
+28 Mesh	78.66
-28 Mesh	<u>21.34</u>
Total	<u>100.00</u>

March 22, 1972

CYCLONE ENGINEERING SALES LTD.
EDMONTON, ALBERTA, CANADA

DENISON MINES LTD.

Drill Hole #SD-7103

Footage: 1138.0' - 1140.3' (D289)

T A B L E 3: Head Analysis of + 28 Mesh

Ash	44.55%
Volatile Matter	17.00%
Residual Moisture	0.43%
Fixed Carbon	38.02%
F.S.I.	2

March 22, 1972

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada

DENISON MINES LTD.

Drill Hole #SD-7103

Footage: 1138.0' - 1140.3' (D289)

T A B L E 4: Weight % and Proximate Analysis of Specific Gravity Fractions: + 28 Mesh.

Sp. Gr.	Wt. %	Ash %	V.M. %	R.M. %	F.C.%
- 1.30	15.85x	2.94	22.89	0.52	73.65
1.30 - 1.35	16.48	5.86	20.30	0.53	73.31
1.35 - 1.40	7.19	10.46	18.92	0.50	70.12
1.40 - 1.45	4.33	15.39	17.89	0.47	66.25
1.45 - 1.50	2.68	20.95	17.43	0.47	61.15
1.50 - 1.60	3.85	28.59	17.12	0.45	53.84
1.60 - 1.70	2.53	37.30	16.77	0.46	45.47
1.70 - 1.80	2.04	41.20	16.49	0.48	41.83
+1.80	45.05	84.12	13.59	0.55	1.74
Total	100.00	44.19	17.12	0.53	38.16

March 22, 1972

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada

DENISON MINES LTD.

Drill Hole #SD-7103:

Footage: 1138.0' - 1140.3' (D289)

T A B L E 5: Weight %, and Proximate Analysis and Free Swelling Index of cumulative Floats: + 28 Mesh.

Sp. Gr.	Wt. %	Ash %	V.M. %	R.M. %	F.C.%	F.S.I.*
- 1.30	15.85	2.94	22.89	0.52	73.65	9+
- 1.35	32.33	4.43	21.57	0.52	73.48	9
- 1.40	39.52	5.53	21.09	0.52	72.86	8½
- 1.45	43.85	6.50	20.77	0.52	72.21	8½
- 1.50	46.53	7.33	20.58	0.51	71.58	8
- 1.60	50.38	8.96	20.31	0.51	70.22	7½
- 1.70 -	52.91	10.31	20.15	0.51	69.03	7
- 1.80	54.95	11.46	20.01	0.50	68.03	6½
Total	100.00	44.19	17.12	0.53	38.16	2

* F.S.I. by actual determination.

March 22, 1972

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada

DENISON MINES LTD.

DRILL HOLE #SD-7103

Footage: 1138.0' - 1140.3' (D289)

T A B L E 6: Washability Data: + 28 Mesh

Specific Gravity	Fractional		Cumulative				Elementary Ash	
	Wt. %	Ash %	Floats		Sinks		Wt. %	Ash %
			Wt. %	Ash %	Wt. %	Ash %		
- 1.30	15.85	2.94	15.85	2.94	100.00	44.19	7.92	2.94
1.30 - 1.35	16.48	5.86	32.33	4.43	84.15	51.96	24.09	5.86
1.35 - 1.40	7.19	10.46	39.52	5.53	67.67	63.19	35.93	10.46
1.40 - 1.45	4.33	15.39	43.85	6.50	60.48	69.66	41.68	15.39
1.45 - 1.50	2.68	20.95	46.53	7.33	56.15	73.63	45.19	20.95
1.50 - 1.60	3.85	28.59	50.38	8.96	53.47	76.27	48.46	28.59
1.60 - 1.70	2.53	37.30	52.91	10.31	49.62	79.97	51.64	37.30
1.70 - 1.80	2.04	41.20	54.95	11.46	47.09	82.26	53.93	41.20
+ 1.80	45.05	84.12	100.00	44.19	45.05	84.12	77.47	84.12
Total	100.00	44.19						

March 22, 1972

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada

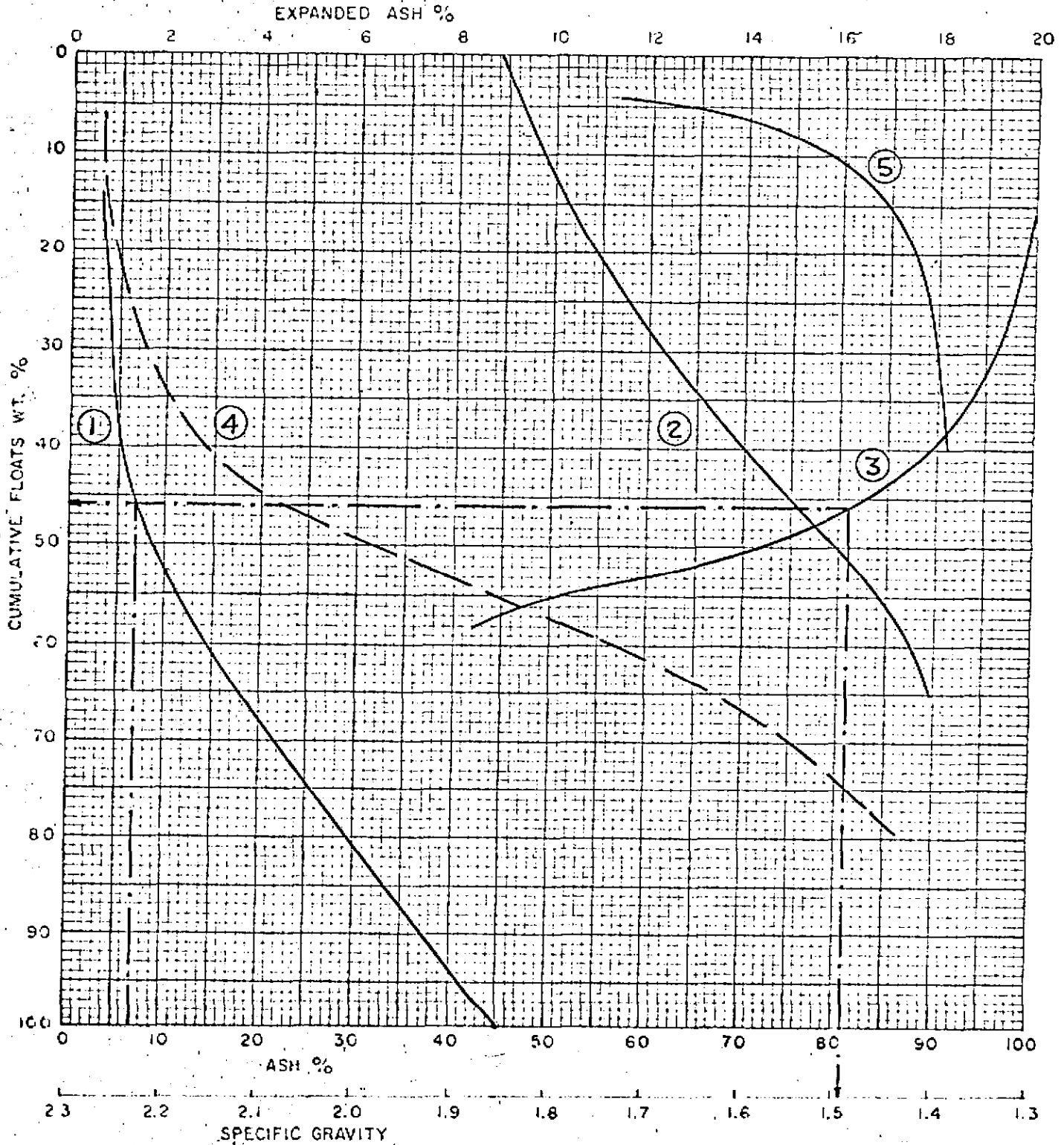
FIGURE

COMPANY Denison Mines Ltd.
DRILL HOLE # SD-7103
FOOTAGE 1138.0' - 1140.3' (D289)

CURVE LEGEND

- 1 FLOATS
- 2 SINKS
- 3 SPECIFIC GRAVITY
- 4 ELEMENTARY ASH
- 5 NEAR GRAVITY MATERIAL
- 6 EXPANDED FLOATS

WASHABILITY CURVES



DATE : March 29, 1972.

CYCLONE ENGINEERING SALES LTD.
EDMONTON ALBERTA CANADA

DENISON MINES LTD.

Drill Hole #SD-7103

Footage: 1177.0' - 1180.0' (D291)

T A B L E 1: Raw Sample Analysis

Ash	77.84%
Volatile Matter	10.27%
Residual Moisture	0.66%
Fixed Carbon	11.23%
F.S.I.	N.A.
B.T.U./lb.	-
Sulphur	-

DENISON MINES LTD.

Drill Hole #SD-7103

Footage: 1177.0' - 1180.0' (D291)

Y A B L E 2: Size Consist of Head Sample

	<u>Weight %</u>
+28 Mesh	80.58
28 x 100 Mesh	12.86
-100 Mesh	<u>6.56</u>
Total	<u>100.00</u>

DENISON MINES LTD.

Drill Hole #SD-7103

Footage: 1177.0' - 1180.0' (D291)

T A B L E 3: Head Analysis of +28 Mesh

Ash	80.03%
Volatile Matter	9.85%
Residual Moisture	0.71%
Fixed Carbon	9.41%
FSI	N.A.

DENISON MINES LTD.

Drill Hole #SD-7103

Footage: 1177.0' - 1180.0' (D291)

T A B L E 7: Head Analysis of -28 Mesh

Ash	71.44%
Volatile Matter	10.78%
Residual Moisture	0.76%
Fixed Carbon	17.02%
F.S.I.	N.A.

DENISON MINES LTD.

Drill Hole #SD-7103

Footage: 1180.0' - 1187.0' (D293)

T A B L E 1: Raw Sample Analysis

Ash	73.02%
Volatile Matter	10.35%
Residual Moisture	0.67%
Fixed Carbon	15.96%
F.S.I.	N.A.

March 28, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7103

Footage: 1180.0' - 1187.0' (D293)

T A B L E 2: Size Consist of Head Sample

	<u>Weight %</u>
+28 Mesh	82.00
28 x100 Mesh	11.55
-100 Mesh	<u>6.45</u>
Total	<u>100.00</u>

March 28, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7103

Footage: 1180.0' - 1187.0' (D293)

T A B L E 3: Head Analysis of +28 Mesh

Ash	76.71%
Volatile Matter	9.69%
Residual Moisture	0.64%
Fixed Carbon	12.96%
F.S.I.	N.A.

March 28, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7103

Footage: 1180.0' - 1187.0' (D293)

T A B L E 7: Head Analysis of -28 Mesh

Ash	58.05%
Volatile Matter	13.31%
Residual Moisture	0.53%
Fixed Carbon	28.11%
F.S.I.	1

March 28, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

KWS.

DENISON MINES LTD.

Drill Hole #SD-7103
Footage: 1187.0' - 1195.0' (D295)

T A B L E 1: Raw Sample Analysis

Ash	28.76%
Volatile Matter	15.71%
Residual Moisture	0.49%
Fixed Carbon	55.04%
F.S.I.	3
B.T.U./lb.	10,390
Sulphur	0.31%

March 29, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7103

Footage: 1187.0' - 1195.0' (D295)

T A B L E 2: Size Consist of Head Sample

	<u>Weight %</u>
+28 Mesh	78.41
28 x 100 Mesh	15.00
-100 Mesh	<u>6.59</u>
Total	<u>100.00</u>

March 29, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7103
Footage: 1187.0' - 1195.0' (D295)

T A B L E 3: Head Analysis of +28 Mesh

Ash	31.81%
Volatile Matter	15.75%
Residual Moisture	0.50%
Fixed Carbon	51.94%
F.S.I.	3

March 29, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7103

Footage: 1187.0' - 1195.0' (D295)

T A B L E 4: Weight % and Proximate Analysis of Specific Gravity Fractions: +20 Mesh

Sp. Gr.	Wt. %	Ash %	V.M. %	R.M. %	F.C. %
- 1.30	5.45	2.60	23.79	0.54	73.07
1.30 - 1.35	16.23	5.64	20.38	0.58	73.40
1.35 - 1.40	9.64	8.67	19.44	0.56	71.33
1.40 - 1.45	5.83	14.19	18.01	0.55	67.25
1.45 - 1.50	7.14	19.10	17.41	0.49	63.00
1.50 - 1.60	10.10	24.83	17.11	0.54	57.52
1.60 - 1.70	12.68	37.06	15.11	0.56	47.27
1.70 - 1.80	9.89	43.40	13.89	0.55	42.16
+ 1.80	23.04	73.54	9.86	0.54	16.06
Total	100.00	32.53	16.06	0.55	50.86

DENISON MINES LTD.

Drill Hole #SD-7103

Footage: 1187.0' - 1195.0' (D295)

T A B L E 5: Weight %, Proximate Analysis and Free Swelling Index of Cumulative Floats: +28 Mesh

Sp. Gr.	Wt. %	Ash %	V.M. %	R.M. %	F.C. %	F.S.I.*
- 1.30	5.45	2.60	23.79	0.54	73.07	9+
- 1.35	21.68	4.88	21.24	0.57	73.31	7
- 1.40	31.32	6.04	20.68	0.57	72.71	5½
- 1.45	37.15	7.32	20.26	0.56	71.86	5½
- 1.50	44.29	9.22	19.80	0.55	70.43	5
- 1.60	54.39	12.12	19.31	0.55	68.02	4½
- 1.70	67.07	16.83	18.51	0.55	64.11	4½
- 1.80	76.96	20.25	17.92	0.55	61.28	4
Total	100.00	32.53	16.06	0.55	50.86	3

* F.S.I. by actual determination.

DENISON MINES LTD.

Drill Hole #SD-7103

Footage: 1187.0' - 1195.0' (D295)

T A B L E 6: Washability Data: +28 Mesh

Specific Gravity	Fractional		Cumulative				Elementary Ash	
	Wt. %	Ash %	Floats		Sinks		Wt. %	Ash %
			Wt. %	Ash %	Wt. %	Ash %		
- 1.30	5.45	2.60	5.45	2.60	100.00	32.53	2.72	2.60
1.30 - 1.35	16.23	5.64	21.68	4.88	94.55	34.25	13.57	5.64
1.35 - 1.40	9.64	8.67	31.32	6.04	78.32	40.18	26.51	8.67
1.40 - 1.45	5.83	14.19	37.15	7.32	68.68	44.60	34.23	14.19
1.45 - 1.50	7.14	19.10	44.29	9.22	62.85	47.42	40.72	19.10
1.50 - 1.60	10.10	24.83	54.39	12.12	55.71	51.06	49.34	24.83
1.60 - 1.70	12.68	37.06	67.07	16.83	45.61	56.86	60.73	37.06
1.70 - 1.80	9.89	43.40	76.96	20.25	32.93	64.49	72.02	43.40
+ 1.80	23.04	73.54	100.00	32.53	23.04	73.54	88.48	73.54
Total	100.00	32.53						

March 29, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

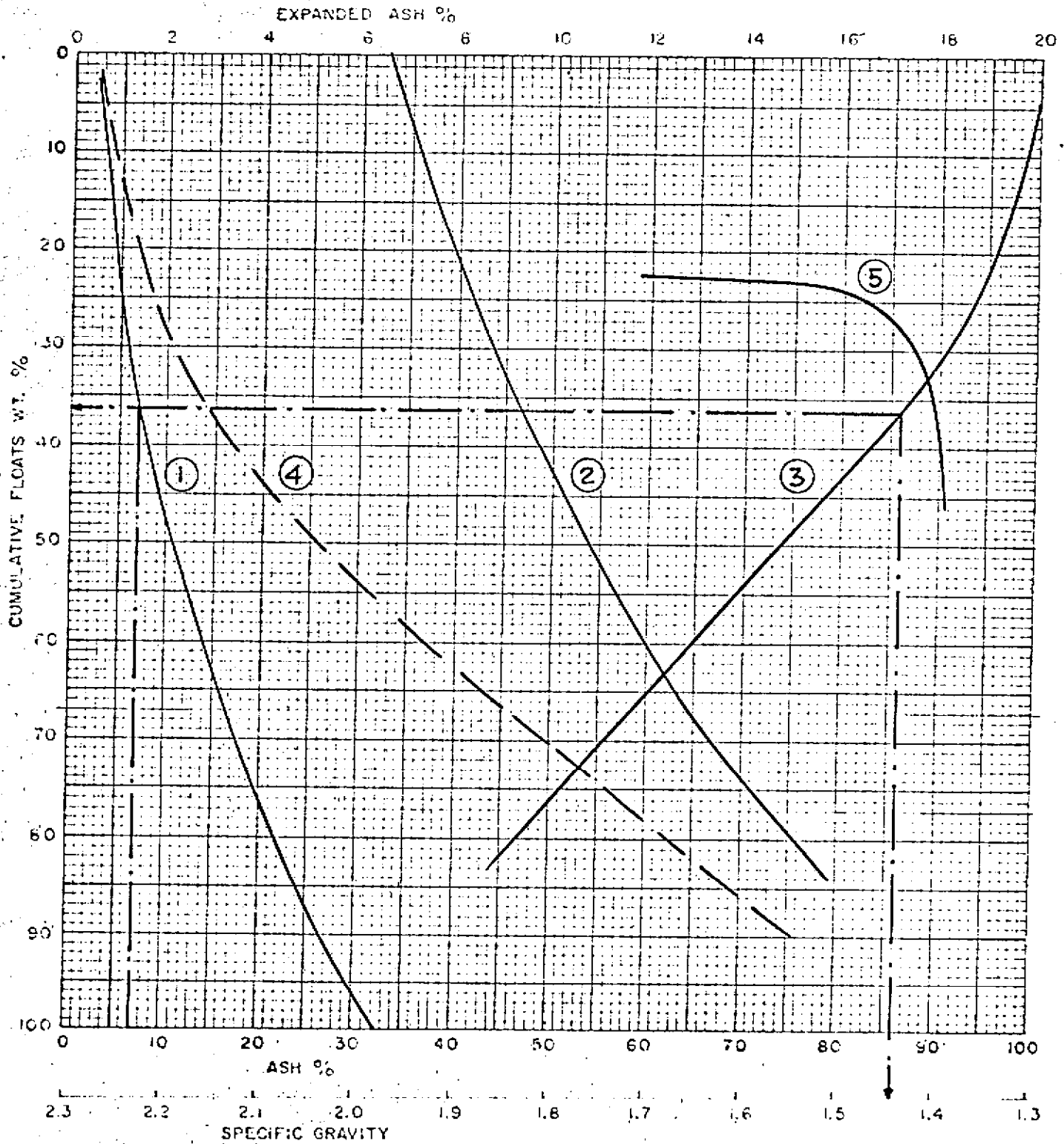
FIGURE

COMPANY Denison Mines Ltd.
DRILL HOLE # SD-7103
FOOTAGE 1187.0' - 1195.0' (D295)

CURVE LEGEND

- 1 FLOATS
- 2 SINKS
- 3 SPECIFIC GRAVITY
- 4 ELEMENTARY ASH
- 5 NEAR GRAVITY MATERIAL
- 6 EXPANDED FLOATS

WASHABILITY CURVES



DATE : March 29, 1972.

CYCLONE ENGINEERING SALES LTD.
EDMONTON ALBERTA CANADA

DENISON MINES LTD.

Drill Hole #SD-7103

Footage: 1187.0' - 1195.0' (D295)

T A B L E 7: Head Analysis of -28 Mesh

Ash	21.49%
Volatile Matter	18.28%
Residual Moisture	0.51%
Fixed Carbon	59.72%
B.S.I.	3

March 29, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7103

Footage: 1187.0' - 1195.0' (D295)

T A B L E 8: Float-Sink of 28 x 100 Mesh and Proximate Analysis of Fractions

Specific Gravity	Wt. %	Ash %	V.M. %	F.C. %	Cum. Weight % Floats	Cum. Ash %	Cum. F.S.I.
- 1.40	54.34	5.37	21.30	73.57	54.34	5.37	7½
1.40 - 1.60	22.64	20.75	16.52	62.73	76.98	9.89	6
1.60 - 1.80	10.67	39.29	14.72	45.99	87.65	13.47	4½
+ 1.80	12.35	70.38	12.62	17.00	100.00	20.50	3
Total	100.00	20.50	18.44	61.06			

March 29, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7103

Footage: 1187.0' - 1195.0' (D295)

T A B L E 9: Froth Flotation Test on -28 Mesh

Solids, by weight in Slurry	8%
Time of Flotation	1.5 minutes
Flotation Recovery	45.70%
Reagents	MIBC & Kerosene

Analysis of the Products

	<u>Concentrate</u>	<u>Tailings</u>
Ash, %	13.48	28.91
Volatile Matter, %	19.50	
Residual Moisture, %	0.51	
Fixed Carbon, %	66.51	
F.S.I.	5	
Sulphur, %	0.42	

March 29, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7103

Footage: 1187.0' - 1195.0' (D295)

CLEAN COAL COMPOSITE

Specific Gravity at 7% Ash for +28 Mesh	1.44
Yield of Floats at 7% Ash in +28 Mesh	36.10%
Weight % of Floats at 1.44 in the Composite Clean Coal	74.10%
Weight % of Flotation Concentrate in Composite Clean Coal	25.90%

T A B L E 10: Proximate Analysis of Clean Coal Composite

Ash	8.52%
Volatile Matter	20.21%
Residual Moisture	0.54%
Fixed Carbon	70.73%
F.S.I.	5½
Sulphur	0.27%

March 29, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

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DENISON MINES LTD.

Drill Hole #SD-7103

Footage: 1195.0' - 1207.0' (D297)

T A B L E 1: Raw Sample Analysis

Ash	26.23%
Volatile Matter	18.12%
Residual Moisture	0.73%
Fixed Carbon	54.92%
F.S.I.	4
B.T.U./lb.	11,210
Sulphur	0.27%

March 29, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7103

Footage: 1195.0' - 1207.0' (D297)

T A B L E 2: Size Consist of Head Sample

	<u>Weight %</u>
+28 Mesh	75.08
28 x 100 Mesh	17.20
-100 Mesh	<u>7.72</u>
Total	<u>100.00</u>

March 29, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7103
Footage: 1195.0' - 1207.0' (D297)

T A B L E 3: Head Analysis of +28 Mesh

Ash	28.36%
Volatile Matter	17.90%
Residual Moisture	0.87%
Fixed Carbon	52.87%
F.S.I.	3

March 29, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7103

Footage: 1195.0' - 1207.0' (D297)

T A B L E 4: Weight % and Proximate Analysis of Specific Gravity Fractions: +28 Mesh

Sp. Gr.	Wt. %	Ash %	VM%	R.M. %	F.C. %
- 1.30	13.05	2.82	23.22	0.87	73.09
1.30 - 1.35	16.93	6.17	20.36	0.91	72.56
1.35 - 1.40	10.08	12.81	18.91	0.90	67.38
1.40 - 1.45	4.63	14.24	18.53	0.86	66.37
1.45 - 1.50	5.35	19.74	17.81	0.87	61.58
1.50 - 1.60	8.81	26.27	17.46	0.86	55.41
1.60 - 1.70	8.87	36.22	17.22	0.84	45.72
1.70 - 1.80	9.70	43.46	16.32	0.85	39.37
+ 1.80	22.58	60.08	13.47	0.89	25.56
Total	100.00	27.73	17.88	0.88	53.51

March 29, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7103

Footage: 1195.0' - 1207.0' (D297)

T A B L E 5: Weight %, Proximate Analysis and Free Swelling Index of Cumulative Floats: +28 Mesh

Sp. Gr.	Wt. %	Ash %	V.M. %	R.M. %	F.C. %	F.S.I.*
- 1.30	13.05	2.82	23.22	0.87	73.09	9+
- 1.35	29.98	4.71	21.60	0.89	72.80	9
- 1.40	40.06	6.75	20.93	0.89	71.43	8½
- 1.45	44.69	7.53	20.68	0.89	70.90	8
- 1.50	50.04	8.83	20.37	0.89	69.91	7½
- 1.60	58.85	11.44	19.94	0.88	67.74	6
- 1.70	67.72	14.69	19.58	0.88	64.85	5
- 1.80	74.42	18.29	19.17	0.87	61.67	4½
Total	100.00	27.73	17.88	0.88	53.51	3

* F.S.I. by actual determination.

March 29, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7103
Footage: 1195.0' - 1207.0' (D297)

T A B L E 6 Washability Data: +28 Mesh

Specific Gravity	Fractional		Cumulative				Elementary Ash	
	Wt. %	Ash %	Floats		Sinks		Wt. %	Ash %
			Wt. %	Ash %	Wt. %	Ash %		
- 1.30	13.05	2.82	13.05	2.82	100.00	27.73	6.53	2.82
1.30 - 1.35	16.93	6.17	29.98	4.71	86.95	31.47	21.51	6.17
1.35 - 1.40	10.08	12.81	40.06	6.75	70.02	37.58	35.02	12.81
1.40 - 1.45	4.63	14.24	44.69	7.53	59.94	41.75	42.38	14.24
1.45 - 1.50	5.35	19.74	50.04	8.83	55.31	44.05	47.36	19.74
1.50 - 1.60	8.81	26.27	58.85	11.44	49.96	46.65	54.44	26.27
1.60 - 1.70	8.87	36.22	67.72	14.69	41.15	51.02	63.29	36.22
1.70 - 1.80	9.70	43.46	77.42	18.29	32.28	55.09	72.57	43.46
+ 1.80	22.58	60.08	100.00	27.73	22.58	60.80	88.71	60.08
Total	100.00	27.73						

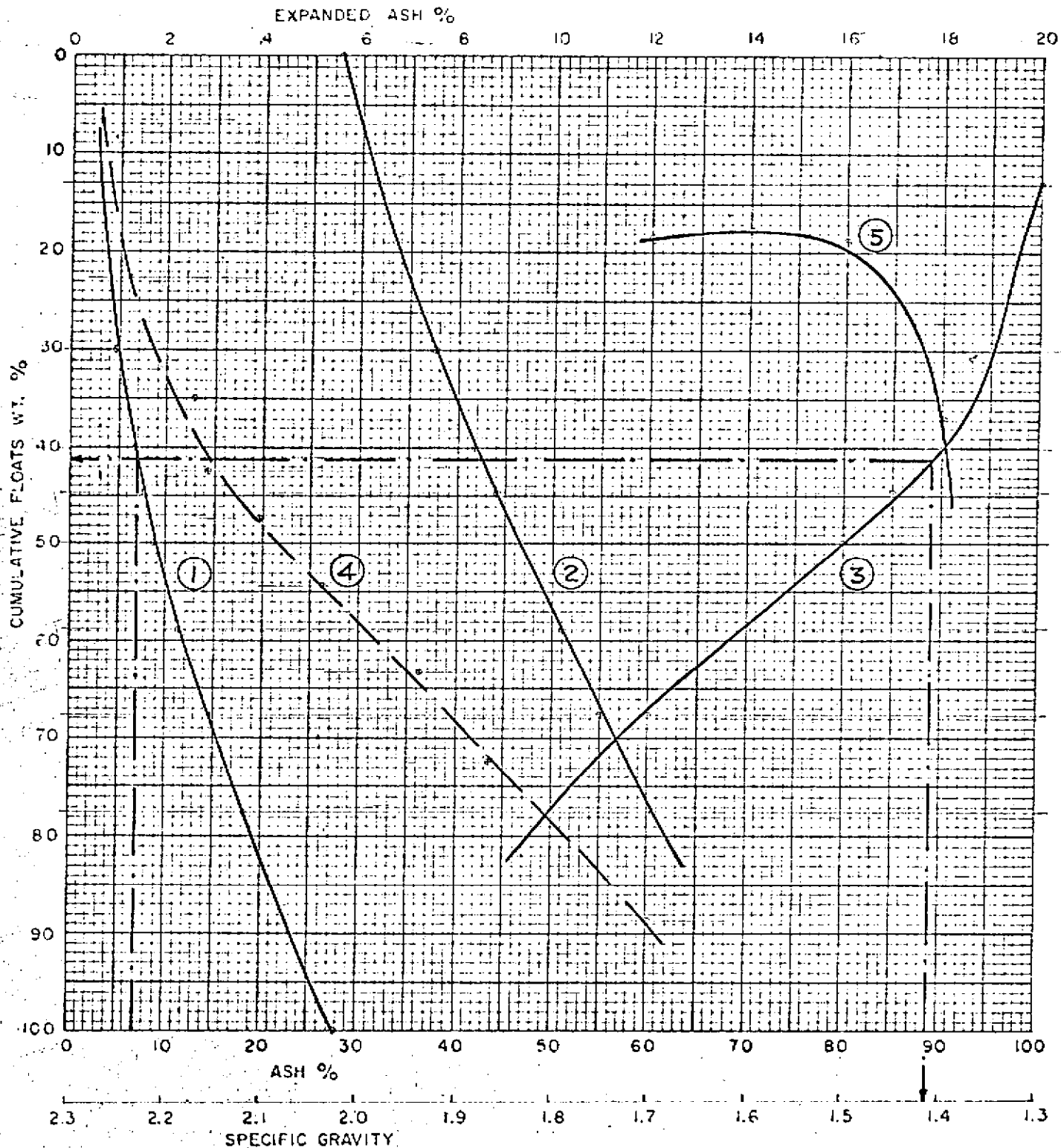
FIGURE

COMPANY Denison Mines Ltd.
DRILL HOLE # SD-7103
FOOTAGE 1195.0' - 12.07'0 (D297)

CURVE LEGEND

- 1 FLOATS
- 2 SINKS
- 3 SPECIFIC GRAVITY
- 4 ELEMENTARY ASH
- 5 NEAR GRAVITY MATERIAL
- 6 EXPANDED FLOATS

WASHABILITY CURVES



DATE : March 30, 1972.

CYCLONE ENGINEERING SALES LTD.
EDMONTON ALBERTA CANADA

DENISON MINES LTD.

Drill Hole #SD-7103
Footage: 1195.0' - 1207.0' (D297)

T A B L E 7: Head Analysis of -28 Mesh

Ash	19.81%
Volatile Matter	19.25%
Residual Moisture	0.78%
Fixed Carbon	60.16%
B.S.I.	5½

March 29, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7103
Footage: 1195.0' - 1207.0' (D297)

T A B L E 8: Float-Sink of 28 x 100 Mesh and Proximate Analysis of Fractions

Specific Gravity	Wt. %	Ash %	V.M. %	F.C. %	Cum. Weight % Floats	Cum. Ash %	Cum. F.S.I.
- 1.40	58.90	4.71	21.90	73.39	58.90	4.71	9+
1.40 - 1.60	16.07	20.95	17.04	62.01	74.97	8.19	9
1.60 - 1.80	10.89	41.85	15.54	42.61	85.86	12.46	8½
+ 1.80	14.14	60.70	12.98	26.32	100.00	19.28	5½
Total	100.00	19.28	19.17	61.55			

March 29, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7103

Footage: 1195.0' - 1207.0' (D297)

T A B L E 9: Froth Flotation Test on -28 Mesh

Solids, by weight in Slurry	8%
Time of Flotation	1.5 minutes
Flotation Recovery	65.75%
Reagents	MIBC & Kerosene

Analyses of the Products

	<u>Concentrate</u>	<u>Tailings</u>
Ash, %	11.92	37.10
Volatile Matter, %	20.13	
Residual Moisture, %	0.78	
Fixed Carbon, %	67.17	
F.S.I.	7½	
Sulphur, %	0.39	

March 29, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7103

Footage: 1195.0' - 1207.0' (D297)

CLEAN COAL COMPOSITE

Specific Gravity at 7% Ash for +28 Mesh	1.41
Yield of Floats at 7% Ash in +28 Mesh	41.10
Weight % of Floats at 1.41 in the Composite Clean Coal	65.30
Weight % of Flotation Concentrate in Composite Clean Coal	34.70

T A B L E 10: Proximate Analysis of Clean Coal Composite

Ash	8.79%
Volatile Matter	20.58%
Residual Moisture	0.87%
Fixed Carbon	69.76%
F.S.I.	8½
Sulphur	0.25%

March 29, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7103
Footage: 1207.0' - 1219.0' (D299)

T A B L E 1: Raw Sample Analysis

Ash	34.46%
Volatile Matter	17.14%
Residual Moisture	0.82%
Fixed Carbon	47.58%
F.S.I.	2
B.T.U./lb.	9,460
Sulphur	0.29%

March 29, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7103

Footage: 1207.0' - 1219.0' (D299)

T A B L E 2: Size Consist of Head Sample

	<u>Weight %</u>
+28 Mesh	74.71
28 x 100 Mesh	17.08
-100 Mesh	<u>8.21</u>
Total	<u>100.00</u>

March 29, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7103

Footage: 1207.0' - 1219.0' (D299)

T A B L E 3L Head Analysis of +28 Mesh

Ash	36.54%
Volatile Matter	16.39%
Residual Moisture	1.03%
Fixed Carbon	46.04%
F.S.I.	1

March 29, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7103

Footage: 1207.0' - 1219.0' (D299)

T A B L E 4: Weight % and Proximate Analysis of Specific Gravity Fractions: +28 Mesh

Sp. Gr.	Wt. %	Ash %	V.M. %	R.M. %	F.C. %
- 1.30	10.16	2.85	23.02	1.03	73.10
1.30 - 1.35	10.11	6.51	20.34	1.02	72.13
1.35 - 1.40	7.80	10.08	19.31	0.95	69.66
1.40 - 1.45	4.94	15.70	18.92	0.96	64.42
1.45 - 1.50	6.39	19.76	18.51	0.96	60.77
1.50 - 1.60	8.87	27.34	18.05	0.97	53.64
1.60 - 1.70	11.61	35.11	17.27	0.96	46.66
1.70 - 1.80	12.31	46.03	15.81	0.98	37.18
+ 1.80	27.81	71.86	10.42	1.02	16.70
Total	100.00	35.92	16.47	0.99	46.62

March 29, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7103

Footage: 1207.0' - 1219.0' (D299)

T A B L E 5: Weight %, Proximate Analysis and Free Swelling Index of Cumulative Floats: +28 Mesh

Sp. Gr.	Wt. %	Ash %	V.M. %	R.M. %	F.C. %	F.S.I.*
- 1.30	10.16	2.85	23.02	1.03	73.10	9+
- 1.35	20.27	4.68	21.68	1.02	72.62	9
- 1.40	28.07	6.18	21.02	1.00	71.80	8½
- 1.45	33.01	7.60	20.71	1.00	70.69	8
- 1.50	39.40	9.57	20.35	0.99	69.09	7½
- 1.60	48.27	12.84	19.93	0.99	66.24	6½
- 1.70	59.88	17.16	19.41	0.98	62.45	5
- 1.80	72.19	22.08	18.80	0.98	58.14	4½
Total	100.00	35.92	16.47	0.99	46.62	1

* F.S.I. by actual determination.

March 29, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7103

Footage: 1207.0' - 1219.0' (D299)

T A B L E 6: Washability Data: +28 Mesh

Specific Gravity	Fractional		Cumulative				Elementary Ash	
	Wt. %	Ash %	Floats		Sinks		Wt. %	Ash %
			Wt. %	Ash %	Wt. %	Ash %		
- 1.30	10.16	2.85	10.16	2.85	100.00	35.92	5.08	2.85
1.30 - 1.35	10.11	6.51	20.27	4.68	89.84	39.66	15.21	6.51
1.35 - 1.40	7.80	10.08	28.07	6.18	79.73	43.87	24.17	10.08
1.40 - 1.45	4.94	15.70	33.01	7.60	71.93	47.53	30.54	15.70
1.45 - 1.50	6.39	19.76	39.40	9.57	66.99	49.88	36.21	19.76
1.50 - 1.60	8.87	27.34	48.27	12.84	60.60	53.06	43.84	27.34
1.60 - 1.70	11.61	35.11	59.88	17.16	51.73	57.47	54.07	35.11
1.70 - 1.80	12.31	46.03	72.19	22.08	40.12	63.93	66.03	46.03
+ 1.80	27.81	71.86	100.00	35.92	27.81	71.86	86.10	71.86
Total	100.00	35.92						

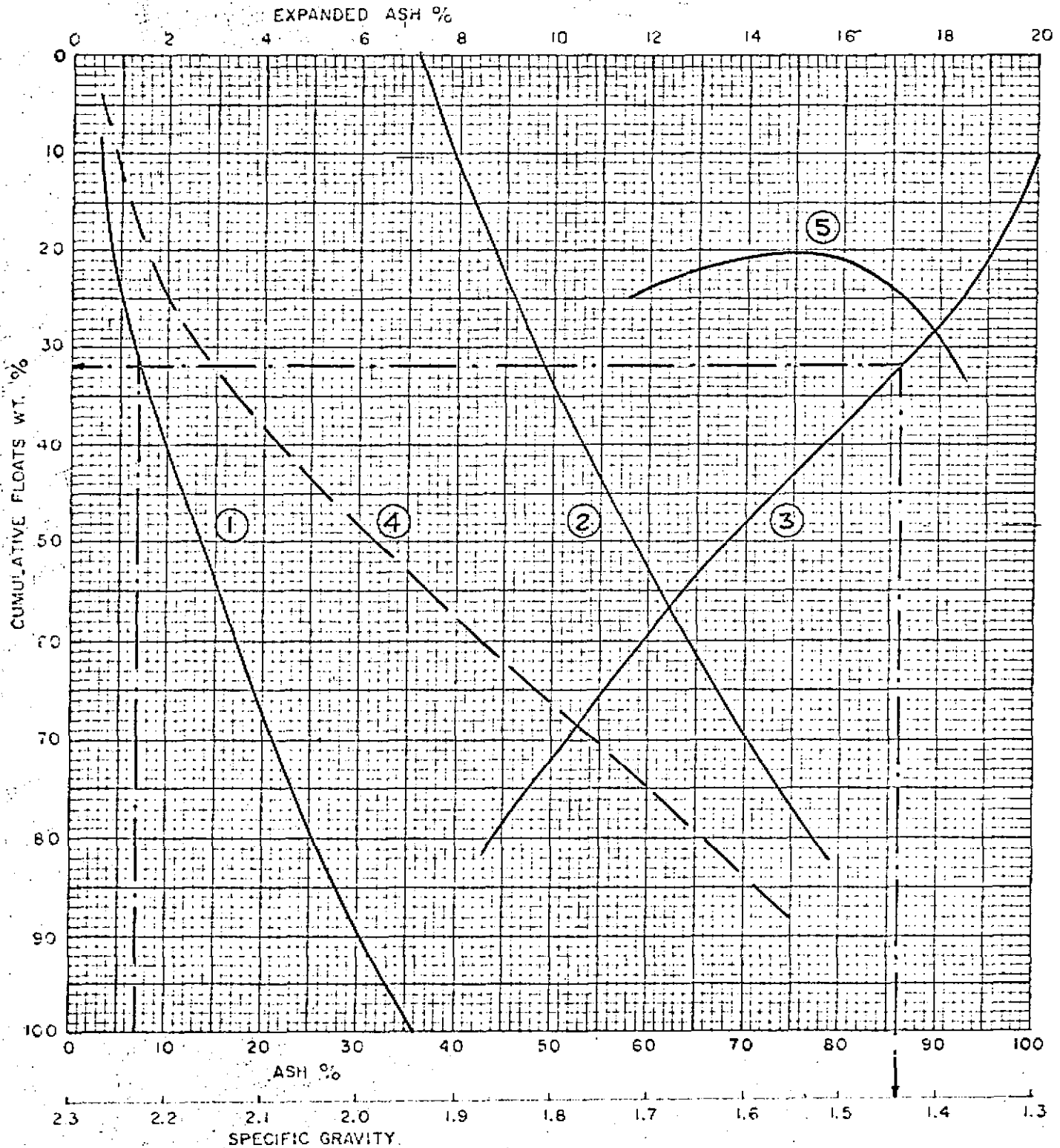
FIGURE

COMPANY Denison Mines Ltd.
DRILL HOLE # SD-7103
FOOTAGE 1207.0' - 1219.0' (D299)

CURVE LEGEND

- 1 FLOATS
- 2 SINKS
- 3 SPECIFIC GRAVITY
- 4 ELEMENTARY ASH
- 5 NEAR GRAVITY MATERIAL
- 6 EXPANDED FLOATS

WASHABILITY CURVES



DATE : March 30, 1972.

CYCLONE ENGINEERING SALES LTD.
EDMONTON ALBERTA CANADA

DENISON MINES LTD.

Drill Hole #SD-7103

Footage: 1207.0' - 1219.0' (D299)

T A B L E 7: Head Analysis of -28 Mesh

Ash	28.23%
Volatile Matter	18.26%
Residual Moisture	0.80%
Fixed Carbon	52.71%
F.S.I.	4½

March 29, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7103

Footage: 1207.0' - 1219.0' (D299)

T A B L E 8: Float-Sink of 28 x 100 Mesh and Proximate Analysis of Fractions

Specific Gravity	Wt. %	Ash %	V.M. %	F.C. %	Cum. Weight % Floats	Cum. Ash %	Cum. F.S.I.
- 1.40	45.85	5.10	22.50	72.40	45.85	5.10	9
1.40 - 1.60	16.84	23.00	18.81	58.19	62.69	9.91	8
1.60 - 1.80	12.44	41.48	16.28	42.24	75.13	15.14	7
+ 1.80	24.87	69.96	11.02	19.02	100.00	18.25	4½
Total	100.00	28.77	18.25	52.98			

March 29, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7103

Footage: 1207.0' - 1219.0' (D299)

T A B L E 9: Froth Flotation Test on -28 Mesh

Solids, by weight in Slurry	8%
Time of Flotation	1.5 minutes
Flotation Recovery	52.99%
Reagents	MIBC & Kerosene

Analyses of the Products

	<u>Concentrate</u>	<u>Tailings</u>
Ash, %	15.81	43.73
Volatile Matter, %	19.60	
Residual Moisture, %	0.80	
Fixed Carbon, %	64.51	
F.S.I.	6½	
Sulphur, %	0.42	

March 29, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7103

Footage: 1207.0' - 1219.0' (D299)

CLEAN COAL COMPOSITE

Specific Gravity at 7% Ash for +28 Mesh	1.44
Yield of Floats at 7% Ash in +28 Mesh	32.00%
Weight % of Floats at 1.44 in the Composite Clean Coal	69.10%
Weight % of Flotation Concentrate in Composite Clean Coal	30.90

T A B L E 10: Proximate Analysis of Clean Coal Composite

Ash	9.80%
Volatile Matter	20.57%
Residual Moisture	0.98%
Fixed Carbon	68.65%
F.S.I.	7
Sulphur	0.27%

March 29, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

W.K.S.

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DENISON MINES LTD.

Drill Hole #SD-7201
Footage: 450.0' - ~~454.6'~~ (D267)

T A B L E 1 Raw Sample Analysis

Ash	26.06%
Volatile Matter	19.79%
Residual Moisture	0.98%
Fixed Carbon	53.17%
F.S.I.	6½
B.T.U./lb.	10,870
Sulphur	0.45%

April 4, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7201

Footage: 450.0' - 454.6' (D267)

T A B L E 2: Size Consist of Head Sample

	<u>Weight %</u>
+28 Mesh	81.40
28 x 100 Mesh	12.69
-100 Mesh	<u>5.91</u>
Total	<u>100.00</u>

April 4, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7201

Footage: 450.0' - 454.6' (D267)

T A B L E 3: Head Analysis of +28 Mesh

Ash	27.89%
Volatile Matter	19.12%
Residual Moisture	0.92%
Fixed Carbon	52.07%
F.S.I.	6

April 4, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7201
Footage: 450.0' - 454.6')D267)

T A B L E 4: Weight % and Proximate Analysis of Specific Gravity Fractions: +28 Mesh

Sp. Gr.	Wt. %	Ash %	V.M. %	R.M. %	F.C. %
- 1.30	44.12	2.54	24.89	0.92	71.65
1.30 - 1.35	11.09	6.53	20.30	0.99	72.18
1.35 - 1.40	4.34	10.12	18.88	1.02	69.98
1.40 - 1.45	2.46	14.12	17.54	0.89	67.45
1.45 - 1.50	1.30	18.66	17.58	0.95	62.81
1.50 - 1.60	3.07	25.40	18.29	0.91	55.40
1.60 - 1.70	2.47	29.83	20.25	0.88	49.04
1.70 - 1.80	1.99	39.47	18.19	0.90	41.44
+ 1.80	29.16	76.17	10.58	0.92	12.33
Total	100.00	27.39	19.22	0.92	52.47

April 4, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7201

Footage: 450.0' - 454.6' (D267)

**T A B L E 5: Weight %, Proximate Analysis and Free Swelling
Index of Cumulative Floats: +28 Mesh**

Sp. Gr.	Wt. %	Ash %	V.M. %	R.M. %	F.C. %	F.S.I.*
- 1.30	44.12	2.54	24.89	0.92	71.65	9+
- 1.35	55.21	3.34	23.97	0.93	71.76	9
- 1.40	59.55	3.84	23.60	0.94	71.62	8½
- 1.45	62.01	4.24	23.35	0.94	71.47	8½
- 1.50	63.31	4.54	23.24	0.94	71.28	8½
- 1.60	66.38	5.50	23.01	0.94	70.55	8
- 1.70	68.85	6.38	22.91	0.94	69.77	7½
- 1.80	70.84	7.31	22.78	0.93	68.98	7
Total	100.00	27.39	19.22	0.92	52.47	6

* F.S.I. by actual determination.

April 4, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7201

Footage: 450.0' - 454.6' (D267)

T A B L E 6: Washability Data: +28 Mesh

Specific Gravity	Fractional		Cumulative				Elementary Ash	
	Wt. %	Ash %	Floats		Sinks		Wt. %	Ash %
			Wt. %	Ash %	Wt. %	Ash %		
- 1.30	44.12	2.54	44.12	2.54	100.00	27.39	22.06	2.54
1.30 - 1.35	11.09	6.53	55.21	3.34	55.88	47.01	49.66	6.53
1.35 - 1.40	4.34	10.12	59.55	3.84	44.79	57.03	57.38	10.12
1.40 - 1.45	2.46	14.12	62.01	4.24	40.45	62.06	60.78	14.12
1.45 - 1.50	1.30	18.66	63.31	4.54	37.99	65.16	62.66	18.66
1.50 - 1.60	3.07	25.40	66.38	5.50	36.69	66.81	64.85	25.40
1.60 - 1.70	2.47	29.83	68.85	6.38	33.62	70.59	67.62	29.83
1.70 - 1.80	1.99	39.47	70.84	7.31	31.15	73.83	69.84	39.47
+ 1.80	29.16	76.17	100.00	27.39	29.16	76.17	85.42	76.17
Total	100.00	27.39						

April 4, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada,

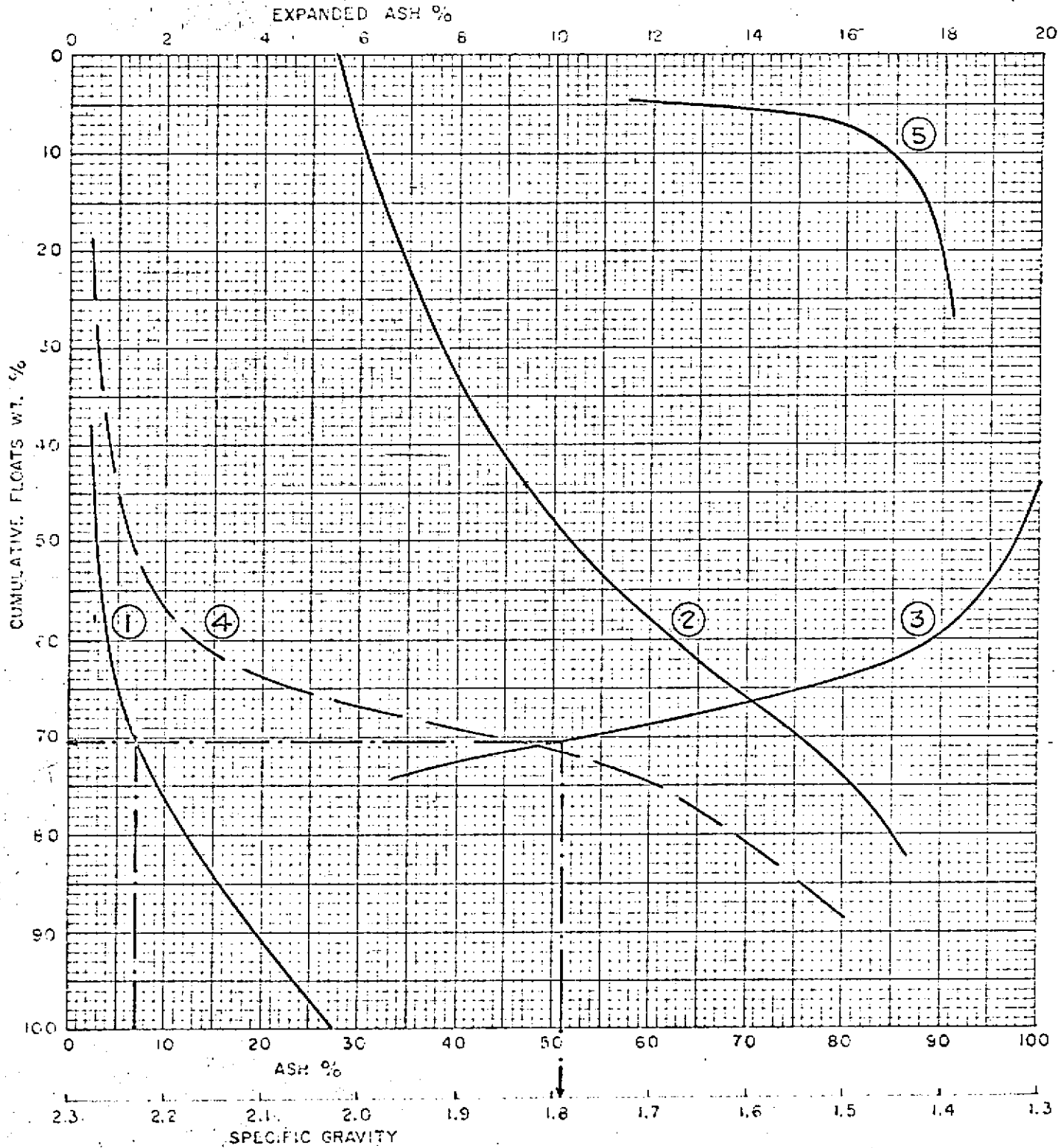
FIGURE

COMPANY Denison Mines Ltd.
DRILL HOLE # #SD-7201
FOOTAGE 450.0' - 454.6' (D267)

CURVE LEGEND

- 1 FLOATS
- 2 SINKS
- 3 SPECIFIC GRAVITY
- 4 ELEMENTARY ASH
- 5 NEAR GRAVITY MATERIAL
- 6 EXPANDED FLOATS

WASHABILITY CURVES



DATE : April 5, 1972.

CYCLONE ENGINEERING SALES LTD.
EDMONTON ALBERTA CANADA

DENISON MINES LTD.

Drill Hole #SD-7201

Footage: 450.0' - 454.6' (D267)

T A B L E 7: Head Analysis of -28 Mesh

Ash	17.19%
Volatile Matter	20.14%
Residual Moisture	1.21%
Fixed Carbon	61.46%
F.S.I.	7

April 4, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7201
Footage: 450.0' - 454.6' (D267)

T A B L E 8: Float-Sink of 28 x 100 Mesh and Proximate Analysis of Fractions

Specific Gravity	Wt. %	Ash %	V.M. %	F.C. %	Cum. Weight % Floats	Cum. Ash %	Cum. F.S.I.
- 1.40	73.66	2.94	23.86	73.20	73.66	2.94	9
1.40 - 1.60	7.76	18.00	17.08	64.92	81.42	4.38	8½
1.60 - 1.80	3.34	36.91	17.54	45.55	84.76	5.66	8½
+ 1.80	15.24	74.36	11.06	14.58	100.00	16.13	6½
Total	100.00	16.13	31.17	62.70			

DENISON MINES LTD.

Drill Hole #SD-7201
Footage: 450.0' - 454.6' (D267)

T A B L E 9: Froth Flotation Test on -28 Mesh

Solids, by weight in Slurry	8%
Time of Flotation	1.5 minutes
Flotation Recovery	74.66%
Reagents	MIBC & Kerosene

Analyses of the Products

	<u>Concentrate</u>	<u>Tailings</u>
Ash, %	7.25	44.66
Volatile Matter, %	22.03	
Residual Moisture, %	1.21	
Fixed Carbon, %	69.51	
F.S.I.	8	
Sulphur, %	0.65	

DENISON MINES LTD.

Drill Hole #SD-7201

Footage: 450.0' - 454.6' (D267)

CLEAN COAL COMPOSITE

Specific Gravity at 7% Ash for +28 Mesh	1.79
Yield of Floats at 7% Ash in +28 Mesh	70.50%
Weight % of Floats at 1.79 in the Composite Clean Coal	80.48%
Weight % of Flotation Concentrate in Composite Clean Coal	19.52%

T A B L E 10: Proximate Analysis of Clean Coal Composite

Ash	7.10%
Volatile Matter	22.65%
Residual Moisture	0.98%
Fixed Carbon	69.27%
F.S.I.	7½
Sulphur	0.47%

W/X

22.3
12.5

DENISON MINES LTD.

Drill Hole #SD-7201

Footage: 1045.0' - 1051.0' (D264)

T A B L E 1: Raw Sample Analysis

Ash	44.34%
Volatile Matter	14.24%
Residual Moisture	0.75%
Fixed Carbon	40.67%
F.S.I.	2
B.T.U./lb.	8,180
Sulphur	0.29%

April 3, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7201

Footage: 1045.0' - 1051.0' (D264)

T A B L E 2: Size Consist of Head Sample

	<u>Weight %</u>
+28 Mesh	84.79
-28 Mesh	<u>15.21</u>
Total	<u>100.00</u>

April 3rd 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7201
Footage: 1045.0' - 1051.0' (D264)

T A B L E 3: Head Analysis of +28 Mesh

Ash	46.69%
Volatile Matter	13.26%
Residual Moisture	0.93%
Fixed Carbon	39.12%
F.S.I.	1½

DENISON MINES LTD.

Drill Hole #SD-7201,
Footage: 1045.0' - 1051.0' (D264)

T A B L E 4: Weight % and Proximate Analysis of Specific Gravity Fractions: +28 Mesh

Sp. Gr.	Wt. %	Ash %	V.M. %	R.M. %	F.C. %
- 1.30	5.70	2.70	23.45	0.93	72.92
1.30 - 1.35	8.46	6.00	20.73	1.01	72.26
1.35 - 1.40	9.38	11.40	18.06	0.97	69.57
1.40 - 1.45	6.48	16.32	17.16	0.88	65.64
1.45 - 1.50	7.07	21.52	16.51	0.95	61.02
1.50 - 1.60	9.40	27.62	16.69	0.98	54.71
1.60 - 1.70	3.01	35.36	17.70	0.90	46.04
1.70 - 1.80	3.76	43.26	15.81	0.87	40.06
+ 1.80	46.74	77.76	8.30	0.86	13.08
Total	100.00	45.94	13.64	0.91	39.51

April 3, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada

DENISON MINES LTD.

Drill Hole #SD-7201,
Footage: 1045.0' - 1051.0' (D264)

T A B L E 5: Weight %, Proximate Analysis and Free Swelling
Index of Cumulative Floats: +28 Mesh

Sp. Gr.	Wt. %	Ash %	V.M.%	R.M.%	F.C.%	F.S.I.*
- 1.30	5.70	2.70	23.45	0.93	72.92	8
- 1.35	14.16	4.67	21.82	0.98	72.53	6½
- 1.40	23.54	7.35	20.32	0.97	71.36	5½
- 1.45	30.02	9.29	19.64	0.95	70.12	5
- 1.50	37.09	11.62	19.04	0.95	68.39	4
- 1.60	46.49	14.86	18.57	0.96	65.61	3½
- 1.70	49.50	16.10	18.52	0.96	64.42	3
- 1.80	53.26	18.02	18.32	0.95	62.71	2½
Total	100.00	45.94	13.64	0.91	39.51	2

* F.S.I. by actual determination.

DENISON MINES LTD.

Drill Hole #SD-7201
Footage: 1045.0' - 1051.0' (D264)

T A B L E 6: Washability Data: +28 Mesh

Specific Gravity	Fractional		Cumulative				Elementary Ash	
	Wt. %	Ash %	Floats		Sinks		Wt. %	Ash %
			Wt. %	Ash %	Wt. %	Ash %		
- 1.30	5.70	2.70	5.70	2.70	100.00	45.94	2.85	2.70
1.30 - 1.35	8.46	6.00	14.16	4.67	94.30	48.56	9.93	6.00
1.35 - 1.40	9.38	11.40	23.54	7.35	85.84	52.75	18.85	11.40
1.40 - 1.45	6.48	16.32	30.02	9.29	76.46	57.82	26.78	16.32
1.45 - 1.50	7.07	21.52	37.09	11.62	69.98	61.67	33.55	21.52
1.50 - 1.60	9.40	27.62	46.49	14.86	62.91	66.18	41.79	27.62
1.60 - 1.70	3.01	35.36	49.50	16.10	53.51	72.95	48.00	35.36
1.70 - 1.80	3.76	43.26	53.26	18.02	50.50	75.19	51.38	43.26
+ 1.80	46.74	77.76	100.00	45.94	46.74	77.76	76.63	77.76
Total	100.00	45.94						

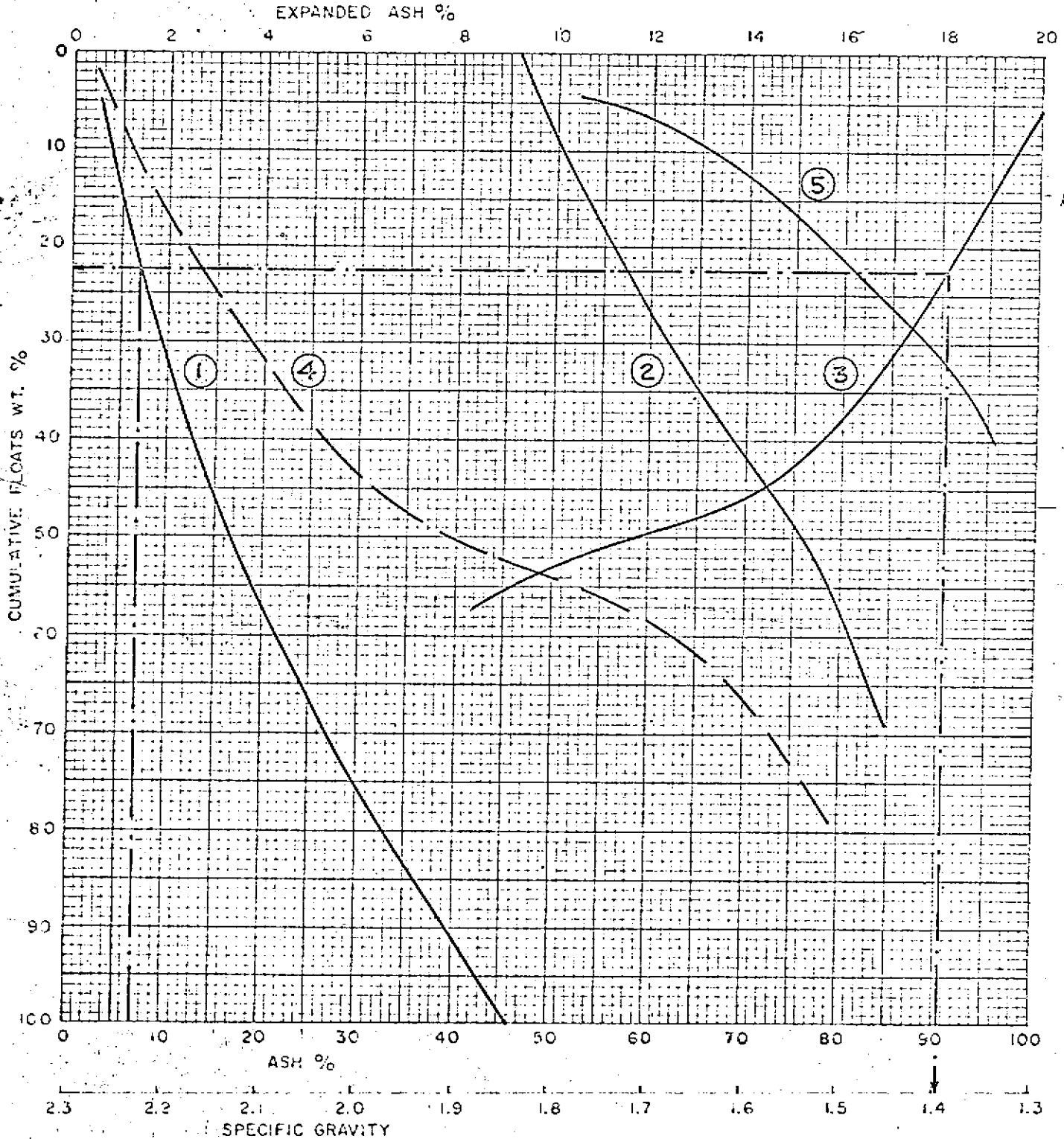
FIGURE

COMPANY Denison Mines Ltd.
DRILL HOLE # SD-7201
FOOTAGE 1045.0' - 1051.0' (D264)

CURVE LEGEND

- 1 FLOATS
- 2 SINKS
- 3 SPECIFIC GRAVITY
- 4 ELEMENTARY ASH
- 5 NEAR GRAVITY MATERIAL
- 6 EXPANDED FLOATS

WASHABILITY CURVES



DATE: April 3, 1972.

CYCLONE ENGINEERING SALES LTD.
EDMONTON ALBERTA CANADA

DENISON MINES LTD.

Drill Hole #SD-7201
Footage: 1045.0' - 1051.0' (D264)

T A B L E 7: Head Analysis of -28 Mesh

Ash	31.27%
Volatile Matter	16.83%
Residual Moisture	0.93%
Fixed Carbon	50.97%
F.S.I.	3½

April 3, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7201

Footage: 1045.0' - 1051.0' (D264)

T A B L E 8: Float-Sink of 28 x 100 Mesh and Proximate Analysis of Fractions

Specific Gravity	Wt. %	Ash %	V.M. %	F.C. %	Cum. Weight % Floats	Cum. Ash %	Cum. FSI
- 1.40							
1.40 - 1.60							
1.60 - 1.80							
+ 1.80							
Total							

NOTE: Not sufficient sample available to do these analyses.

DENISON MINES LTD.

Drill Hole #SD-7201

Footage: 1045.0' - 1051.0' (D264)

T A B L E 9: Froth Flotation Test on -28 Mesh

Solids, by weight in Slurry	8%
Time of Flotation	1.5 minutes
Flotation Recovery	83.09%
Reagents	MIBC & Kerosene

Analysis of the Products

	<u>Concentrate</u>	<u>Tailings</u>
Ash %,	21.09	76.73
Volatile Matter, %	18.31	
Residual Moisture, %	0.93	
Fixed Carbon, %	59.67	
F.S.I.	4½	
Sulphur, %	0.39	

April 3, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7201

Footage: 1045.0' - 1051.0' (D264)

CLEAN COAL COMPOSITE

Specific Gravity at 7% Ash for +28 Mesh	1.39
Yield of Floats at 7% Ash in +28 Mesh	22.30%
Weight % of Floats at 1.39 in the Composite Clean Coal	60.17%
Weight % of Flotation Concentrate in Composite Clean Coal	39.83%

T A B L E 10: Proximate Analysis of Clean Coal Composite

Ash	12.49%
Volatile Matter	19.45%
Residual Moisture	0.95%
Fixed Carbon	67.10%
F.S.I.	5
Sulphur	0.33%

6A.
7A.

DENISON MINES LTD.

Drill Hole #SD-7201
Footage: 1051.0' - 1059.4' (D265)

T A B L E 1: Raw Sample Analysis

Ash	30.64%
Volatile Matter	16.92%
Residual Moisture	0.82%
Fixed Carbon	51.62%
F. S. I.	5
B. T. U./lb.	10,400
Sulphur	0.33%

April 3, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7201
Footage: 1051.0' - 1059.4' (D265)

T A B L E 2: Size Consist of Head Sample

	<u>Weight %</u>
<u>+28 Mesh</u>	79.89
28 x 100 Mesh	13.96
<u>-100 Mesh</u>	<u>6.15</u>
Total	<u>100.00</u>

April 3, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7201
Footage: 1051.0' - 1059.4' (D265)

T A B L E 3: Head Analysis of +28 Mesh

Ash	32.26%
Volatile Matter	16.71
Residual Moisture	0.79%
Fixed Carbon	50.24%
F.S.I.	4½

April 3, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7201

Footage: 1051.0' - 1059.4' (D265)

Sp. Gr.	Wt. %	Ash %	V.M. %	R.M. %	F.C. %
- 1.30	31.22	2.85	21.49	0.79	74.87
1.30 - 1.35	16.83	6.42	20.18	0.76	72.64
1.35 - 1.40	5.58	10.91	19.31	0.73	69.05
1.40 - 1.45	3.88	15.41	18.78	0.84	64.97
1.45 - 1.50	2.68	19.63	18.44	0.83	61.10
1.50 - 1.60	5.76	26.56	17.13	0.75	55.56
1.60 - 1.70	2.14	32.29	18.73	0.78	48.20
1.70 - 1.80	2.01	38.27	18.18	0.79	42.76
+ 1.80	29.90	82.86	7.52	0.81	8.81
Total	100.00	31.47	16.41	0.79	51.33

April 3, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7201

Footage: 1051.0' - 1059.4' (D265)

T A B L E 5: Weight %, Proximate Analysis and Free Swelling
Index of Cumulative Floats: +28 Mesh

Sp. Gr.	Wt. %	Ash %	V.M. %	R.M. %	F.C. %	F.S.I. *
- 1.30	31.22	2.85	21.49	0.79	74.87	9
- 1.35	48.05	4.10	21.03	0.78	74.09	8½
- 1.40	53.63	4.81	20.85	0.77	73.57	8½
- 1.45	57.51	5.52	20.71	0.78	72.99	8½
- 1.50	60.19	6.15	20.61	0.78	72.46	8
- 1.60	65.95	7.93	20.31	0.78	70.98	8
- 1.70	68.09	8.70	20.26	0.78	70.26	7½
- 1.80	70.10	9.55	20.20	0.78	69.47	7
Total	100.00	31.47	16.41	0.79	51.33	5

* F.S.I. by actual determination.

April 3, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7201

Footage: 1051.0' - 1059.4' (D265)

T A B L E 6: Washability Data: +28 Mesh

Specific Gravity	Fractional		Cumulative				Elementary Ash	
	Wt. %	Ash %	Floats		Sinks		Wt. %	Ash %
			Wt. %	Ash %	Wt. %	Ash %		
- 1.30	31.22	2.85	31.22	2.85	100.00	31.47	15.61	2.85
1.30 - 1.35	16.83	6.42	48.05	4.10	68.78	44.46	39.64	6.42
1.35 - 1.40	5.58	10.91	53.63	4.81	51.95	56.78	50.84	10.91
1.40 - 1.45	3.88	15.41	57.51	5.52	46.37	62.30	65.57	15.41
1.45 - 1.50	2.68	19.63	60.19	6.15	42.49	66.58	58.85	10.63
1.50 - 1.60	5.76	26.56	65.95	7.93	39.81	69.74	63.07	26.56
1.60 - 1.70	2.14	32.29	68.09	8.70	34.05	77.05	67.02	32.29
1.70 - 1.80	2.01	38.27	70.10	9.55	31.91	80.05	69.09	38.27
+ 1.80	29.90	82.86	100.00	31.47	29.90	82.86	85.05	82.86
Total	100.00	31.47						

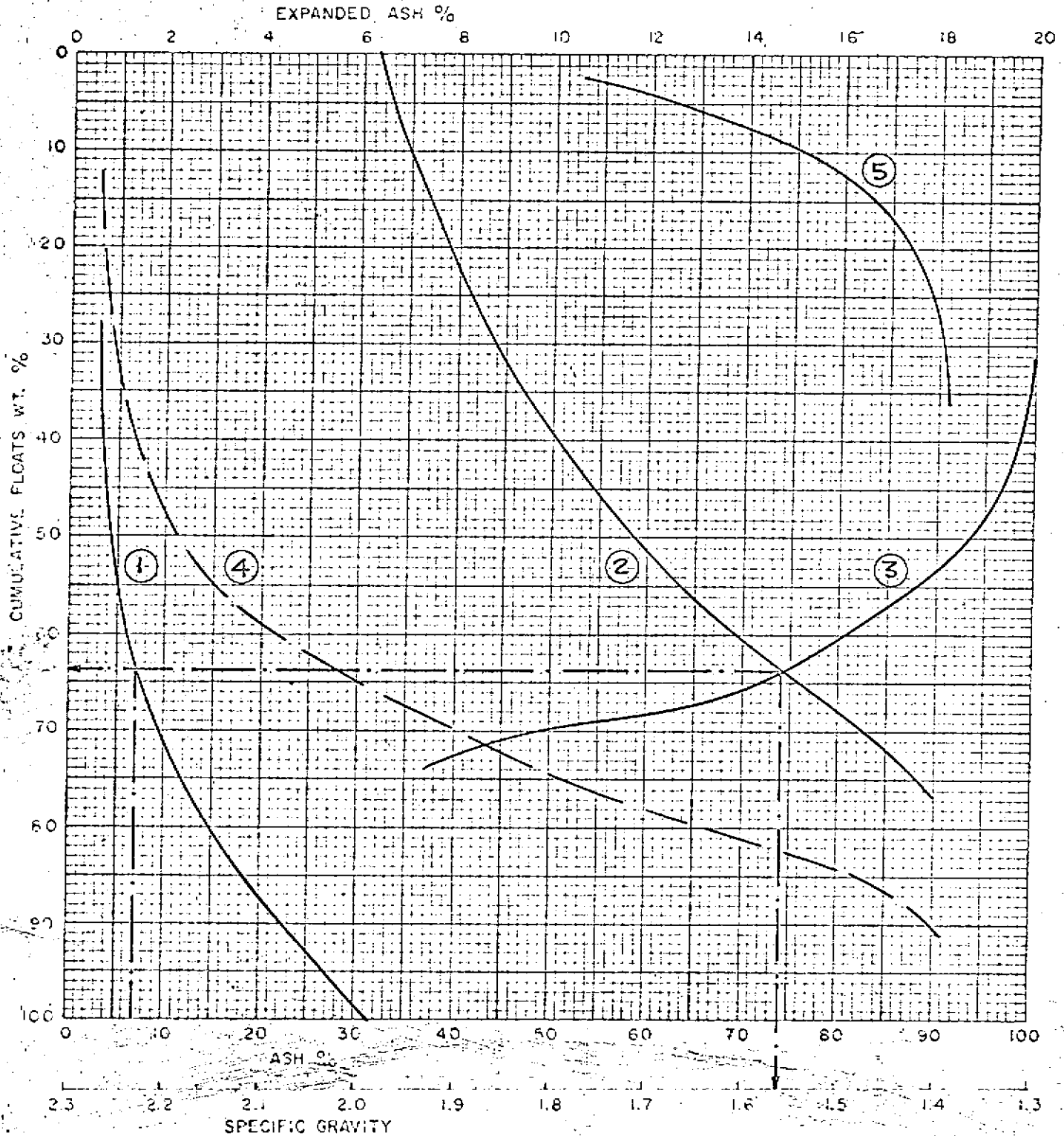
FIGURE

COMPANY Denison Mines Ltd.
DRILL HOLE # SD-7201
FOOTAGE 1051.0' - 1059.4' (D265)

CURVE LEGEND

- 1 FLOATS
- 2 SINKS
- 3 SPECIFIC GRAVITY
- 4 ELEMENTARY ASH
- 5 NEAR GRAVITY MATERIAL
- 6 EXPANDED FLOATS

WASHABILITY CURVES



DATE: April 3, 1972.

CYCLONE ENGINEERING SALES LTD.
EDMONTON ALBERTA CANADA

DENISON MINES LTD.

Drill Hole #SD-7201

Footage: 1051.0' - 1059.4' (D265)

T A B L E 7: Head Analysis of -28 Mesh

Ash	21.37%
Volatile Matter	18.87%
Residual Moisture	1.03%
Fixed Carbon	58.73%
F.S.I.	7½

DENISON MINES LTD.

Drill Hole #SD-7201

Footage: 1051.0' - 1059.4' (D265)

T A B L E 8: Float-Sink of 28 x 100 Mesh and Proximate Analysis of Fractions

Specific Gravity	Wt. %	Ash %	V.M. %	F.C. %	Cum. Weight % Floats	Cum. Ash %	Cum. F.S.I.
- 1.40	65.37	3.92	21.61	74.47	65.37	3.92	9+
1.40 - 1.60	13.06	21.26	17.72	61.02	78.43	6.81	9
1.60 - 1.80	4.23	36.73	17.40	45.87	82.66	8.34	8
+ 1.80	17.34	81.66	8.59	9.75	100.00	21.05	7
Total	100.00	21.05	18.66	60.29			

DENISON MINES LTD.

Drill Hole #SD-7201

Footage: 1051.0' - 1059.4' (D265)

T A B L E 9: Froth Flotation Test on -28 Mesh

Solids, by weight in Slurry	8%
Time of Flotation	1.5 minutes
Flotation Recovery	70.24%
Reagents	MIBC & Kerosene

Analyses of the Products

	<u>Concentrate</u>	<u>Tailings</u>
Ash, %	8.99	47.50
Volatile Matter, %	21.76%	
Residual Moisture, %	0.79	
Fixed Carbon, %	68.46	
F.S.I.	8	
Sulphur, %	0.41	

April 3, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7201

Footage: 1051.0' - 1059.4' (D265)

CLEAN COAL COMPOSITE

Specific Gravity at 7% Ash for +28 Mesh	1.56
Yield of Floats at 7% Ash in +28 Mesh	64.00%
Weight of Floats at 1.56 in the Composite Clean Coal	83.89%
Weight % of Flotation Concentrate in Composite Clean Coal	16.11%

T A B L E 10: Proximate Analysis of Clean Coal Composite

Ash	7.39%
Volatile Matter	20.64%
Residual Moisture	0.78%
Fixed Carbon	71.19%
F.S.I.	8
Sulphur	0.27%

April 3, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

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7.1

W.K.S.

DENISON MINES LTD.

Drill Hole #SD-7201
Footage: 1145.5' - 1157.4' (D268)

T A B L E 1: Raw Sample Analysis

Ash	14.95%
Volatile Matter	19.69%
Residual Moisture	0.98%
Fixed Carbon	64.38%
F.S.I.	6
B.T.U./lb.	13,080
Sulphur	0.33%

April 4, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7201

Footage: 1145.5' - 1157.4' (D268)

T A B L E 2: Size Consist of Head Sample

	<u>Weight %</u>
+28 Mesh	75.76
28 x 100 Mesh	16.12
-100 Mesh	<u>8.12</u>
Total	<u>100.00</u>

April 4, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7201

Footage: 1145.5' - 1157.4' (D268)

T A B L E 3: Head Analysis of +28 Mesh

Ash	15.73%
Volatile Matter	19.25%
Residual Moisture	1.04%
Fixed Carbon	63.98%
P.S.I.	5

April 4, 1972.

CYCLONE ENGINEERING SALES LTD.
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DENISON MINES LTD.

Drill Hole #SD-7201

Footage: 1145.5' - 1157.4' (D268)

T A B L E 4: Weight % and Proximate Analysis of Specific Gravity Fractions: +28 Mesh

Sp. Gr.	Wt. %	Ash %	V.M. %	R.M. %	F.C. %
- 1.30	25.40	2.76	22.93	1.04	73.27
1.30 - 1.35	30.56	6.15	19.41	0.96	73.48
1.35 - 1.40	17.24	11.07	17.68	0.95	70.30
1.40 - 1.45	6.86	16.49	17.00	1.03	65.48
1.45 - 1.50	4.04	20.56	17.35	1.07	61.02
1.50 - 1.60	4.13	26.24	18.35	1.08	54.35
1.60 - 1.70	2.14	32.96	22.05	1.02	43.97
1.70 - 1.80	1.32	35.39	25.95	1.05	37.61
+ 1.80	8.31	78.07	12.21	1.07	8.65
Total	100.00	15.19	19.26	1.00	63.80

DENISON MINES LTD.

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Drill Hole #SD-7201

Footage: 1145.5' - 1157.4' (D268)

T A B L E 5: Weight %, Proximate Analysis of Free Swelling Index of Cumulative Floats: +28 Mesh

Sp. Gr.	Wt. %	ash %	V.M. %	E.M. %	F.C. %	F.S.I. *
- 1.30	25.40	2.76	22.93	1.04	73.27	9+
- 1.35	55.96	4.61	21.01	1.00	73.38	9
- 1.40	73.20	6.13	20.22	0.99	72.66	8½
- 1.45	80.06	7.02	19.95	0.99	72.04	8
- 1.50	84.10	7.67	19.82	0.99	71.52	7½
- 1.60	88.23	8.54	19.75	1.00	70.71	7½
- 1.70	90.37	9.12	19.81	1.00	70.07	7
- 1.80	91.69	9.50	19.90	1.00	69.60	6½
Total	100.00	15.94	19.26	1.00	63.80	6½

* F.S.I. by actual determination.

April 4, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7201
Footage: 1145.5' - 1157.4' (D268)

T A B L E 6: Washability Data: +28 Mesh

Specific Gravity	Fractional		Cumulative				Elementary Ash	
	Wt. %	Ash %	Floats		Sinks		Wt. %	Ash %
			Wt. %	Ash %	Wt. %	Ash %		
- 1.30	25.40	2.76	25.40	2.76	100.00	15.19	12.70	2.76
1.30 - 1.35	30.56	6.15	55.96	4.61	74.60	19.43	40.68	6.15
1.35 - 1.40	17.24	11.07	73.20	6.13	44.04	28.64	64.58	11.07
1.40 - 1.45	6.86	16.49	80.06	7.02	26.80	39.95	76.63	16.49
1.45 - 1.50	4.04	20.56	84.10	7.67	19.94	48.02	82.08	20.56
1.50 - 1.60	4.13	26.24	88.23	8.54	15.90	54.99	86.17	26.24
1.60 - 1.70	2.14	32.96	90.37	9.12	11.77	65.08	89.30	32.96
1.70 - 1.80	1.32	35.39	91.69	9.50	9.63	72.22	91.03	35.39
+ 1.80	8.31	78.07	100.00	15.94	8.31	78.07	95.84	78.07
Total	100.00	15.19						

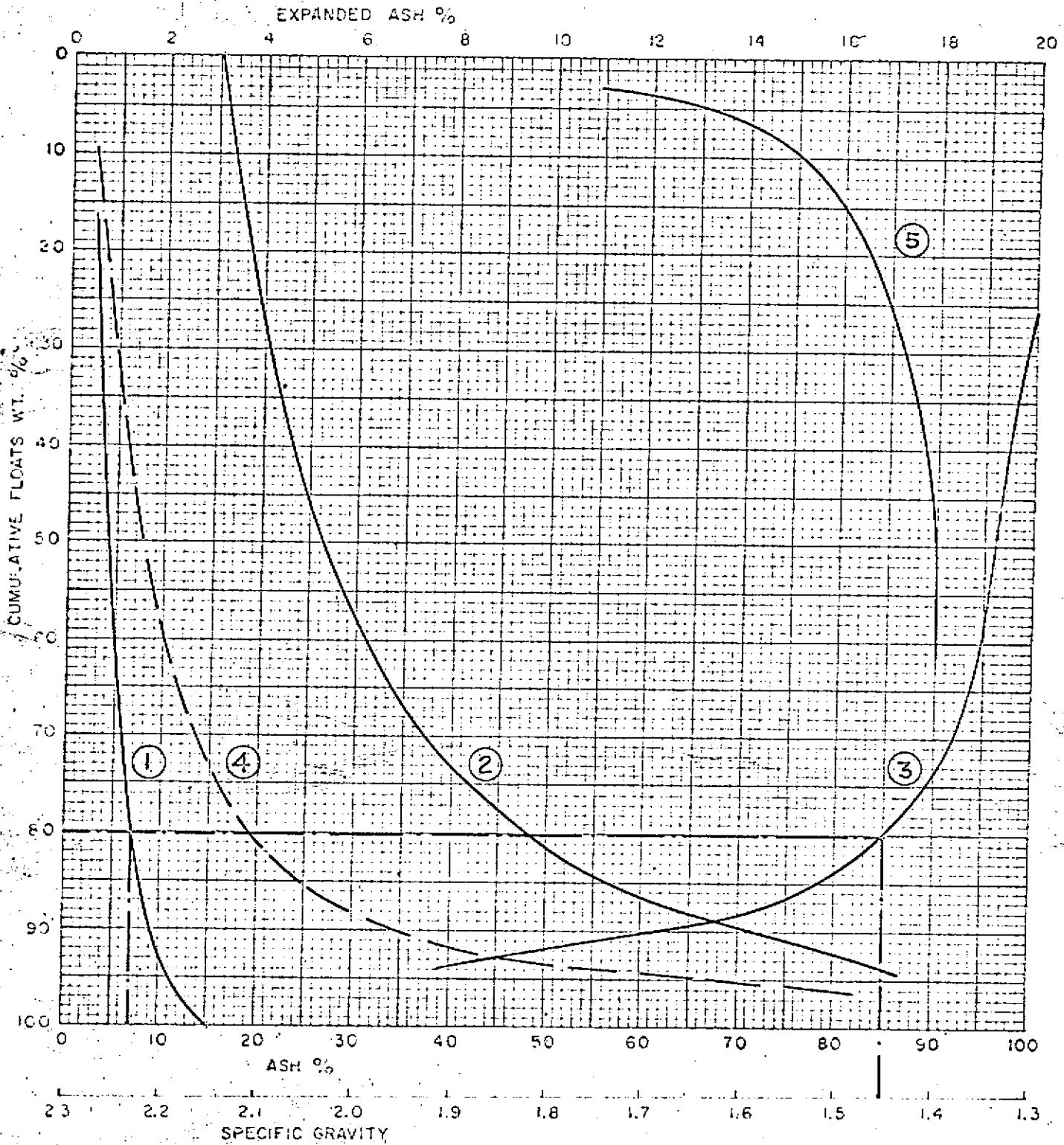
FIGURE

COMPANY Denison Mines Ltd.
DRILL HOLE # SD-7201
FOOTAGE 1145.5' - 1157.4' (D268)

CURVE LEGEND

- 1 FLOATS
- 2 SINKS
- 3 SPECIFIC GRAVITY
- 4 ELEMENTARY ASH
- 5 NEAR GRAVITY MATERIAL
- 6 EXPANDED FLOATS

WASHABILITY CURVES



DATE: April 5, 1972.

CYCLONE ENGINEERING SALES LTD.
EDMONTON ALBERTA CANADA

DENISON MINES LTD.

Drill Hole #SD-7201

Footage: 1145.5' - 1157.4' (D268)

T A B L E 7: Head Analysis of -28 Mesh

Ash	10.59%
Volatile Matter	19.92%
Residual Moisture	1.02%
Fixed Carbon	68.47%
F.S.I.	7½

April 4, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7201

Footage: 1145.5' - 1157.4' (D268)

T A B L E 8: Float-Sink of 28 x 100 Mesh and Proximate Analysis of Fractions

Specific Gravity	Wt. %	Ash %	V.M. %	F.C. %	Cum. Weight % Floats	Cum. Ash %	CUM FSI
- 1.40	80.00	4.42	21.81	73.77	80.00	4.42	8½
1.40 - 1.60	13.95	17.62	16.63	65.75	93.95	6.38	8
1.60 - 1.80	2.12	38.25	22.45	39.30	96.07	7.08	7½
+ 1.80	3.93	77.96	12.69	9.35	100.00	9.87	6
Total	100.00	9.87	20.27	69.86			

April 4, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7201

Footage: 1145.5' - 1157.4' (D268)

T A B L E 9: Froth Flotation Test on -28 Mesh

Solids, by weight in Slurry	8%
Time of Flotation	1.5 minutes
Flotation Recovery	88.51%
Reagents	MIBC & Kerosene

Analysis of the Products

	<u>Concentrate</u>	<u>Tailings</u>
Ash, %	7.41	29.59
Volatile Matter, %	20.55	
Residual Moisture, %	1.12	
Fixed Carbon, %	70.92	
F.S.I.	8	
Sulphur, %	0.32	

April 4, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7201

Footage: 1145.5' - 1157.4' (D268)

CLEAN COAL COMPOSITE

Specific Gravity at 7% Ash for +28 Mesh	1.45
Yield of Floats at 7% Ash in +28 Mesh	80.00%
Weight % of Floats at 1.45 in the Composite Clean Coal	73.84%
Weight % of Flotation Concentrate in Composite Clean Coal	26.16%

T A B L E 10: Proximate Analysis of Clean Coal Composite

Ash	7.11%
Volatile Matter	20.11%
$\frac{1}{2}$ Residual Moisture	1.02%
Fixed Carbon	71.76%
F.S.I.	8
Sulphur	0.24%

April 4, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

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DENISON MINES LTD.

Drill Hole #SD7201 &
Footage: 1177.4' - 1179.5' (D270)
1189.5' - 1183.5' (D272)

T A B L E 1: Raw Sample Analysis

Ash	27.02%
Volatile Matter	15.77%
Residual Moisture	1.15%
Fixed Carbon	56.06%
F.S.I.	2½
B.T.U./lb.	11,200
Sulphur	0.36%

April 5, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7201

Footage: 1177.4' - 1179.5' (D270)
1179.5' - 1183.5' (D272)

T A B L E 2: Size Consist of Head Sample

	<u>Weight %</u>
+28 Mesh	80.95
28 x 100 Mesh	13.10
-100 Mesh	<u>5.95</u>
Total	<u>100.00</u>

April 5, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7201

Footage: 1177.4' - 1179.5' (D270)

1179.5' - 1183.5' (D272)

T A B L E 3: Head Analysis of +28 Mesh

Ash	28.44%
Volatile Matter	14.71%
Residual Moisture	1.20%
Fixed Carbon	55.65%
F.S.I.	2

April 5, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7201

Footage: 1177.4' - 1179.5' (D270)

1179.5' - 1183.5' (D272)

T A B L E 4: Weight % and Proximate Analysis of Specific Gravity Fractions: +28 Mesh

Sp. Gr.	Wt. %	Ash %	V.M. %	R.M. %	F.C. %
- 1.30	5.30	2.12	22.05	1.20	74.63
1.30 - 1.35	23.59	6.27	18.19	1.22	74.32
1.35 - 1.40	19.36	10.52	17.09	1.19	71.20
1.40 - 1.45	10.89	15.43	16.41	1.16	67.00
1.45 - 1.50	7.50	20.76	15.07	1.23	62.94
1.50 - 1.60	6.48	27.92	14.54	1.24	56.30
1.60 - 1.70	3.08	37.81	13.62	1.17	47.40
1.70 - 1.80	3.76	44.91	11.13	1.19	42.77
+ 1.80	20.04	80.22	7.59	1.21	10.98
Total	100.00	27.60	15.28	1.20	55.92

April 5, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7201

Footage: 1177.5' - 1179.5' (D270)
 1179.5' - 1183.5' (D272)

T A B L E 5: Weight %, Proximate Analysis and Free Swelling
Index of Cumulative Floats: +28 Mesh

Sp. Gr.	Wt. %	Ash %	VM. %	R.M. %	F.C. %	F.S.I.*
- 1.30	5.30	2.12	22.05	1.20	74.63	9+
- 1.35	28.89	5.51	18.90	1.22	74.37	6½
- 1.40	48.25	7.52	18.17	1.21	73.10	4
- 1.45	59.14	8.98	17.85	1.20	71.97	3
- 1.50	66.64	10.30	17.54	1.20	70.96	2½
- 1.60	73.12	11.86	17.27	1.20	69.67	2½
- 1.70	76.20	12.91	17.12	1.20	68.77	2½
- 1.80	79.96	14.42	16.84	1.20	67.54	2
Total	100.00	27.60	15.28	1.20	55.92	2

* F.S.I. by actual determination.

April 5, 1972.

CYCLONE ENGINEERING SALES LTD.
 Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7201

Footage: 1177.4' - 1179.5' (D270)
 1179.5' - 1183.5' (D272)

T A B L E 6: Washability Data: +28 Mesh

Specific Gravity	Fractional		Cumulative				Elementary Ash	
	Wt. %	Ash %	Floats		Sinks		Wt. %	Ash %
			Wt. %	Ash %	Wt. %	Ash %		
- 1.30	5.30	2.12	5.30	2.12	100.00	27.60	2.15	2.12
1.30 - 1.35	23.59	6.27	28.89	5.51	94.70	29.03	17.09	6.27
1.35 - 1.40	19.36	10.52	48.25	7.52	71.11	36.58	38.57	10.52
1.40 - 1.45	10.89	15.43	59.14	8.98	51.75	46.33	53.70	15.43
1.45 - 1.50	7.50	20.76	66.64	10.30	40.86	54.57	62.89	20.76
1.50 - 1.60	6.48	27.92	73.12	11.86	33.36	62.17	69.88	27.97
1.60 - 1.70	3.08	37.81	76.20	12.91	26.88	70.42	74.66	37.81
1.70 - 1.80	3.76	44.91	79.96	14.42	23.80	74.64	78.08	44.91
+ 1.80	20.04	80.22	100.00	27.60	20.04	80.22	89.98	80.22
Total	100.00	27.60						

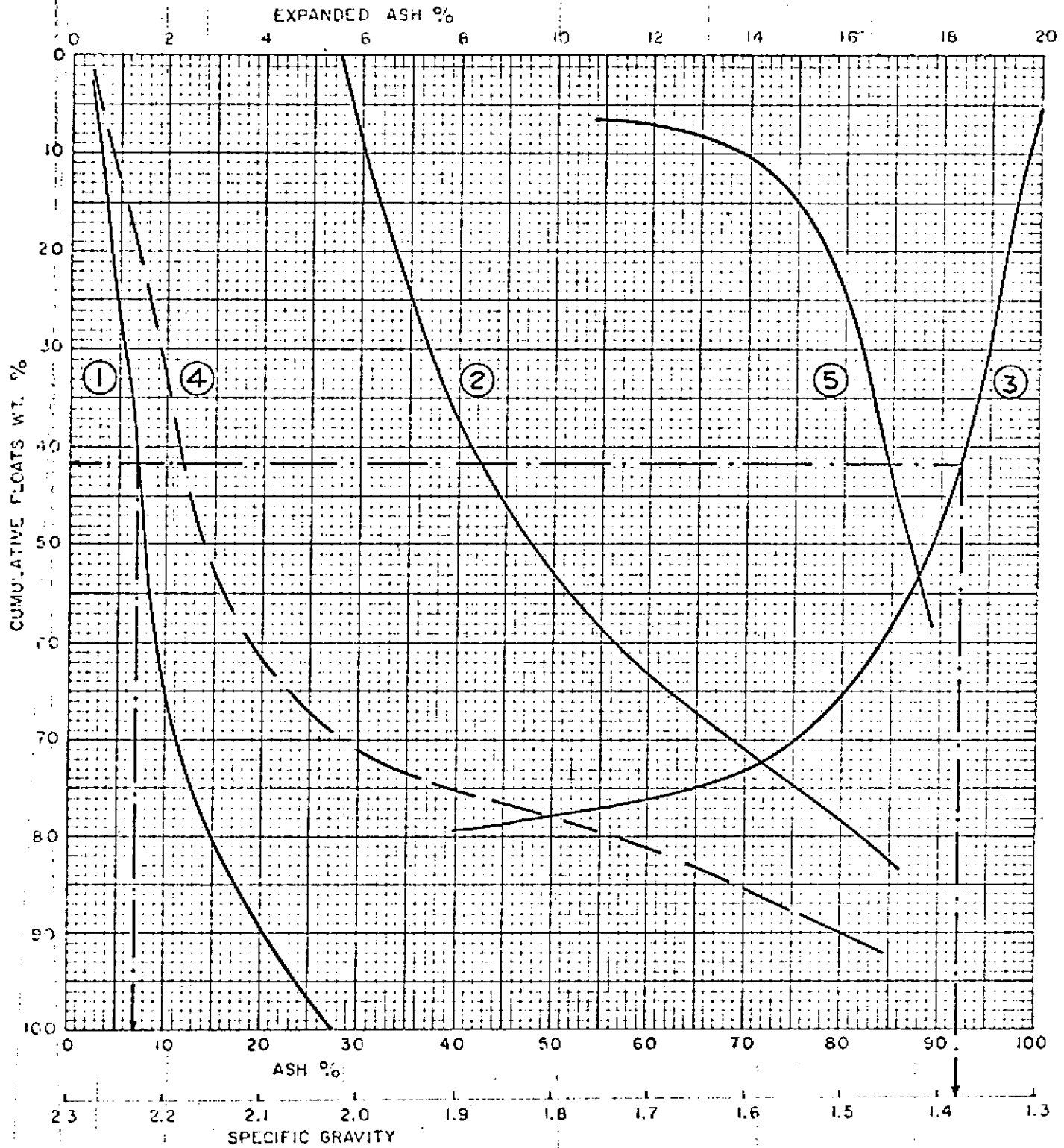
FIGURE

COMPANY Denison Mines Ltd.
DRILL HOLE # SD-7201
FOOTAGE 1177.4' - 1183.5' (D270 & D272)

CURVE LEGEND

- 1 FLOATS
- 2 SINKS
- 3 SPECIFIC GRAVITY
- 4 ELEMENTARY ASH
- 5 NEAR GRAVITY MATERIAL
- 6 EXPANDED FLOATS

WASHABILITY CURVES



DATE: April 6, 1972.

CYCLONE ENGINEERING SALES LTD.
EDMONTON ALBERTA CANADA

DENISON MINES LTD.

Drill Hole #SD-7201
Footage: 1177.4' - 1179.5' (D270)
1179.5' - 1183.5' (D272)

T A B L E 7: Head Analysis of -28 Mesh

Ash	18.69%
Volatile Matter	17.40%
Residual Moisture	1.25%
Fixed Carbon	62.66%
F.S.I.	4

April 5, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7201

Footage: 1177.4' - 1179.5' (D270)

1179.5' - 1183.5' (D272)

T A B L E 8: Float-Sink of 28 x 100 Mesh and Proximate Analysis of Fractions

Specific Gravity	Wt. %	Ash %	V.M. %	F.C. %	Cum. Weight % Floats	Cum. Ash %	Cum. FSI
- 1.40	62.27	5.54	19.77	74.69	62.27	5.54	8
1.40 -1.60	21.88	18.98	15.86	65.16	84.15	9.03	6
1.60 - 1.80	4.07	40.16	12.62	47.22	88.22	10.47	4½
+ 1.80	11.78	77.85	9.20	12.95	100.00	18.41	4
Total	100.00	18.41	17.38	64.21			

DENISON MINES LTD.

Drill Hole #SD-7201

Footage: 1177.4' - 1179.5' (D270)

1179.5' - 1183.5' (D272)

T A B L E 9: Froth Flotation Test on -28 Mesh

Solids, by weight in Slurry	8%
Time of Flotation	1.5 minutes
Flotation Recovery	88.45%
Reagents	MIBC & Kerosene

ANALYSIS OF THE PRODUCTS

	<u>Concentrate</u>	<u>Tailings</u>
Ash, %	13.02	61.76
Volatile Matter, %	18.40	
Residual Moisture, %	1.25	
Fixed Carbon, %	67.33	
F.S.I.	4½	
Sulphur, %	0.42	

April 5, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7201

Footage: 1177.4' - 1179.5' (D270)

1179.5' - 1183.5' (D272)

CLEAN COAL COMPOSITE

Specific Gravity at 7% Ash for +28 Mesh	1.38
Yield of Floats at 7% Ash in +28 Mesh	41.50%
Weight % of Floats at 1.38 in the Composite Clean Coal	70.53%
Weight % of Flotation Concentrate in Composite Clean Coal	29.47%

T A B L E 10: Proximate Analysis of Clean Coal Composite

Ash	8.73%
Volatile Matter	18.25%
Residual Moisture	1.22%
Fixed Carbon	71.80%
F.S.I.	4
Sulphur	0.38%

April 5, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7202

Footage: 533.0' - 536.5' (D274)

T A B L E 1: Raw Sample Analysis

Ash	33.19%
Volatile Matter	19.61%
Residual Moisture	1.30%
Fixed Carbon	45.90%
F.S.I.	6
B.T.U./lb.	9,710
Sulphur	0.51%

April 6, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7202

Footage: 533.0' - 536.5' (D274)

T A B L E 2: Size Consist of Head Sample

	<u>Weight %</u>
+28 Mesh	65.69
28 x 100 Mesh	20.95
-100 Mesh	<u>13.36</u>
Total	<u>100.00</u>

April 5, 1972.

CYCLONE ENGINEERING SALES LTD.

DENISON MINES LTD.

Drill Hole #SD-7202

Footage: 553.0' - 536.5' (D274)

T A B L E 3: Head Analysis of +28 Mesh

Ash	38.01%
Volatile Matter	18.99%
Residual Moisture	1.33%
Fixed Carbon	41.67%
F.S.I.	4½

April 6, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7202

Footage: 533.0' - 536.5' (D274)

T A B L E 4: Weight % and Proximate Analysis of Specific Gravity Fractions: +28 Mesh

Sp. Gr.	Wt. %	Ash %	V.M. %	R.M. %	F.C. %
- 1.30	15.09	3.47	25.61	1.33	69.59
1.30 - 1.35	12.37	7.63	24.38	1.29	66.70
1.35 - 1.40	10.60	11.75	22.76	1.32	64.17
1.40 - 1.45	4.03	18.31	22.24	1.36	58.09
1.45 - 1.50	4.13	22.82	20.89	1.37	54.92
1.50 - 1.60	7.13	28.50	19.25	1.35	50.90
1.60 - 1.70	6.10	37.57	17.30	1.30	43.83
1.70 - 1.80	3.53	45.81	16.09	1.28	36.82
+ 1.80	37.02	75.77	13.41	1.34	9.48
Total	100.00	38.38	19.01	1.33	41.28

April 6, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7202

Footage: 533.0' - 536.5' (D274)

T A B L E 5: Weight %, Proximate Analysis and Free Swelling Index of Cumulative Floats: +28 Mesh

Sp. Gr.	Wt. %	Ash %	V.M. %	R.M. %	F.C. %	F.S.I.*
- 1.30	15.09	3.47	25.61	1.33	69.59	9+
-1.35	27.46	5.34	25.06	1.31	68.29	9½
- 1.40	38.06	7.13	24.42	1.31	67.14	9
- 1.45	42.09	8.20	24.21	1.32	66.27	8½
- 1.50	46.22	9.50	23.91	1.32	65.27	8½
- 1.60	53.35	12.04	23.29	1.33	63.34	8½
- 1.70	59.45	14.66	22.67	1.32	61.35	8½
- 1.80	62.98	16.41	22.31	1.32	59.96	8
Total	100.00	38.38	19.01	1.33	41.28	4½

* F.S.I. by actual determination.

DENISON MINES LTD.

Drill Hole #SD-7202
Footage: 533.0' - 536.5' (D274)

T A B L E 6: Washability Data: +28 Mesh

Specific Gravity	Fractional		Cumulative				Elementary Ash	
	Wt. %	Ash %	Floats		Sinks		Wt. %	Ash %
			Wt. %	Ash %	Wt. %	Ash %		
- 1.30	15.09	3.47	15.09	3.47	100.00	38.83	7.54	2.12
1.30 - 1.35	12.37	7.63	27.46	5.34	84.91	44.59	21.28	7.63
1.35 - 1.40	10.60	11.75	38.06	7.13	72.54	50.89	32.76	11.75
1.40 - 1.45	4.03	18.31	42.09	8.20	61.94	57.59	40.08	18.31
1.45 - 1.50	6.13	22.82	46.22	9.50	57.91	60.32	44.15	22.82
1.50 - 1.60	7.13	28.50	53.35	12.04	53.78	63.20	49.79	28.50
1.60 - 1.70	6.10	37.57	59.45	14.66	46.65	68.51	56.40	37.57
1.70 - 1.80	3.53	45.81	62.98	16.41	40.55	73.16	61.21	45.81
+ 1.80	37.02	75.77	100.00	38.38	37.02	75.77	81.49	75.77
Total	100.00	38.38						

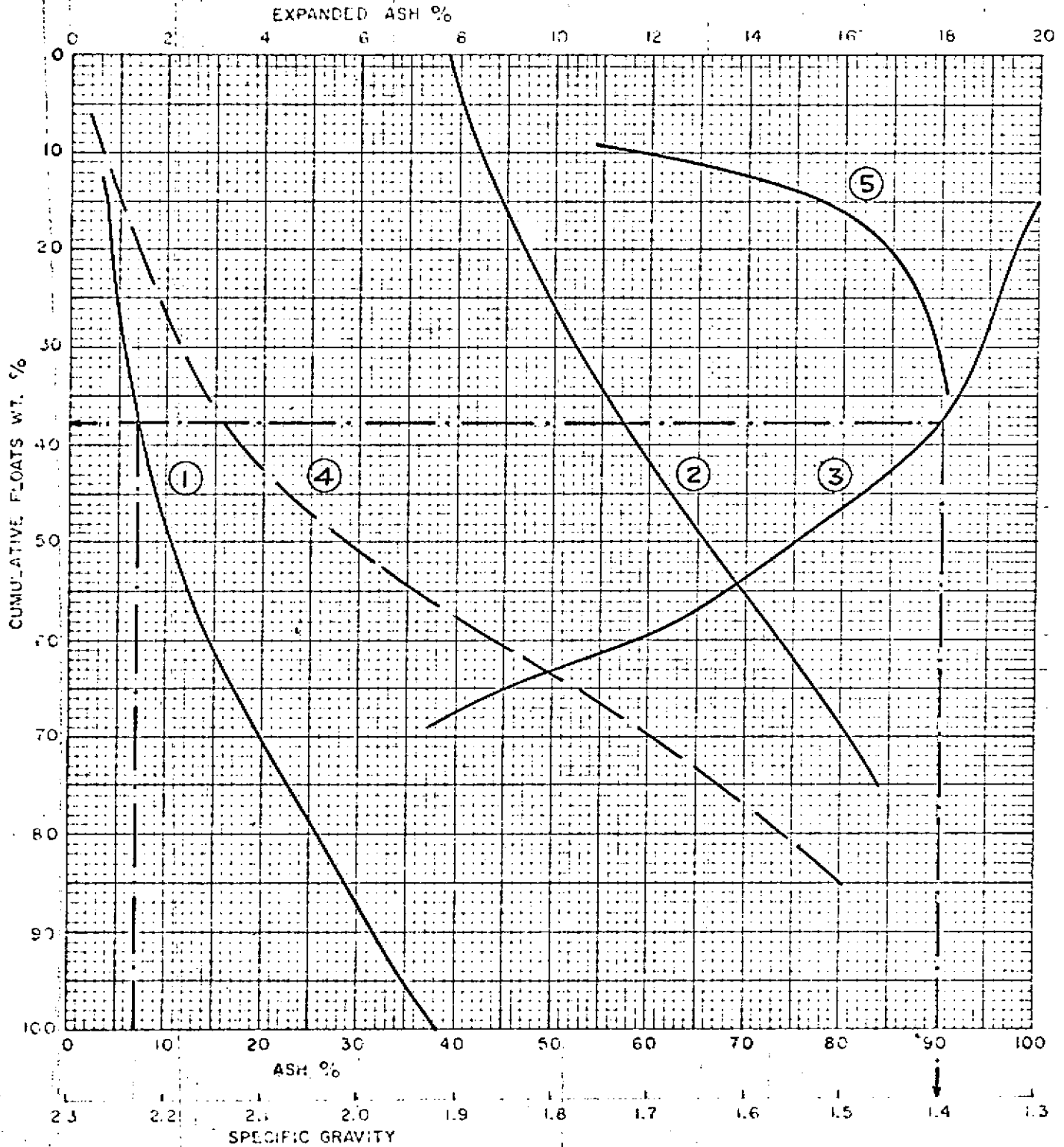
FIGURE

COMPANY Denison Mines Ltd.
DRILL HOLE # SD-7202
FOOTAGE 533.0' - 536.5' (D274)

CURVE LEGEND

- 1 FLOATS
- 2 SINKS
- 3 SPECIFIC GRAVITY
- 4 ELEMENTARY ASH
- 5 NEAR GRAVITY MATERIAL
- 6 EXPANDED FLOATS

WASHABILITY CURVES



DATE : April 6, 1972.

CYCLONE ENGINEERING SALES LTD.
EDMONTON ALBERTA CANADA

DENISON MINES LTD.

Drill Hole #SD-7202

Footage: 533.0' - 536.5' (D274)

T A B L E 7: Head Analysis of -28 Mesh

Ash	25.12%
Volatile Matter	20.96%
Residual Moisture	1.41%
Fixed Carbon	52.51%
F.S.I.	7

April 6, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7202

Footage: 533.0' - 536.5' (D274)

T A B L E 8: Fbat-Sink of 28 x 100 Mesh and Proximate Analysis of Fractions

Specific Gravity	Wt. %	Ash %	V.M. %	F.C. %	Cum. Weight % Floats	Cum. Ash %	Cum. F.S.I.
- 1.40	41.08	5.68	26.19	68.13	41.08	5.68	9+
1.40 - 1.60	30.60	18.78	22.57	58.65	71.68	11.27	9
1.60 - 1.80	13.09	40.44	17.35	42.21	84.77	15.78	9
+ 1.80	15.23	68.90	12.92	18.18	100.00	23.87	7
Total	100.00	23.87	31.90	44.23			

April 6, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7202
Footage: 533.0' - 536.5' (D274)

T A B L E 9: Froth Flotation Test on -28 Mesh

Solids, by weight in Slurry	8%
Time of Flotation	1.5 minutes
Flotation Recovery	71.78%
Reagents	MIBC & Kerosene

Analyses of the Products

	<u>Concentrate</u>	<u>Tailings</u>
Ash, %	16.76	45.19
Volatile Matter, %	22.38	
Residual Moisture, %	1.41	
Fixed Carbon, %	59.45	
F.S.I.	8	
Sulphur, %	0.62	

April 6, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7202
Footage: 533.0' - 536.5' (D274)

CLEAN COAL COMPOSITE

Specific Gravity at 7% Ash for +28 Mesh	1.40
Yield of Floats at 7% Ash in +28 Mesh	37.50%
Weight % of Floats at 1.40 in the Composite Clean Coal	50.02%
Weight % of Flotation Concentrate in Composite Clean Coal	49.98%

T A B L E 10: Proximate Analysis of Clean Coal Composite

Ash	11.89%
Volatile Matter	23.41%
Residual Moisture	1.37%
Fixed Carbon	63.33%
F.S.I.	8½
Sulphur	0.55%

April 6, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

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DENLSON MINES LTD.

Drill Hole #SD-7202
Footage: 537.2' - 541.5' (D276)

T A B L E 1: Raw Sample Analysis

Ash	7.23%
Volatile Matter	24.83%
Residual Moisture	0.52%
Fixed Carbon	67.42%
F.S.I.	7½
B.T.U./lb.	14,260
Sulphur	0.42%

April 6, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7202

Footage: 537.2' - 541.5' (D276)

T A B L E 2: Size Consist of Head Sample

	<u>Weight %</u>
+28 Mesh	74.12
28 x 100 Mesh	17.80
-100 Mesh	<u>8.08</u>
Total	<u>100.00</u>

April 6, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7202

Footage: 537.2' - 541.5' (D276)

T A B L E 3: Head Analysis of +28 Mesh

Ash	7.90%
Volatile Matter	24.12%
Residual Moisture	0.53%
Fixed Carbon	67.45%
F.S.I.	7½

April 6, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7202

Footage: 537.2' - 541.5' (D276)

T A B L E 4: Weight % and Proximate Analysis of Specific Gravity Fractions: +28 Mesh

Sp. Gr.	Wt. %	Ash %	V.M. %	R.M. %	F.C. %
- 1.30	66.90	2.51	26.57	0.53	70.39
1.30 - 1.35	12.24	5.99	22.95	0.51	70.55
1.35 - 1.40	9.23	9.86	20.45	0.48	69.21
1.40 - 1.45	2.69	14.51	19.23	0.46	65.80
1.45 - 1.50	2.21	19.58	18.02	0.58	61.82
1.50 - 1.60	2.49	24.65	17.37	0.55	57.43
1.60 - 1.70	1.13	37.20	18.86	0.47	43.47
1.70 - 1.80	0.66	46.31	17.02	0.59	36.08
+ 1.80	2.45	68.98	11.31	0.56	19.15
Total	100.00	7.17	24.43	0.52	67.88

April 6, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7202

Footage: 537.2' - 541.5' (D276)

T A B L E 5: Weight %, Proximate Analysis and Free Swelling
Index of Cumulative Floats: +28 Mesh

Sp. Gr.	Wt. %	Ash %	V.M. %	R.M. %	F.C. %	F.S.I.*
- 1.30	66.90	2.51	26.57	0.53	70.39	8½
- 1.35	79.14	3.04	26.01	0.53	70.42	8½
- 1.40	88.37	3.75	25.43	0.52	70.30	8½
- 1.45	91.06	4.07	25.25	0.52	70.16	8½
- 1.50	93.27	4.44	25.07	0.52	69.97	8½
- 1.60	95.76	4.96	24.87	0.52	69.65	8½
- 1.70	96.89	5.34	24.80	0.52	69.34	8½
- 1.80	97.55	5.61	24.75	0.52	69.12	8
Total	100.00	7.17	24.43	0.52	67.88	7½

* F.S.I. by actual Determination.

April 6, 1972.

CYCLONE ENGINEERING SALES LTD.
 Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7202
Footage: 537.2' - 541.5' (D276)

T A B L E 6: Washability Data: +28 Mesh

Specific Gravity	Fractional		Cumulative				Elementary Ash	
	Wt. %	Ash %	Floats		Sinks		Wt. %	Ash %
			Wt. %	Ash %	Wt. %	Ash %		
- 1.30	66.90	2.51	66.90	2.51	100.00	7.17	33.45	2.51
1.30 - 1.35	12.24	5.92	79.14	3.04	33.10	16.58	73.02	5.92
1.35 - 1.40	9.23	9.86	88.37	3.75	20.86	22.83	83.76	9.86
1.40 - 1.45	2.69	14.51	91.06	4.07	11.63	33.13	89.71	14.51
1.45 - 1.50	2.21	19.58	93.27	4.44	8.94	38.73	92.16	19.58
1.50 - 1.60	2.49	24.65	95.76	4.96	6.73	45.02	94.52	24.65
1.60 - 1.70	1.13	37.20	96.89	5.34	4.24	56.98	96.32	37.20
1.70 - 1.80	0.66	46.31	97.55	5.61	3.11	64.17	97.22	46.31
+ 1.80	2.45	68.98	100.00	7.17	2.45	68.98	98.77	68.98
Total	100.00	7.17						

April 6, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

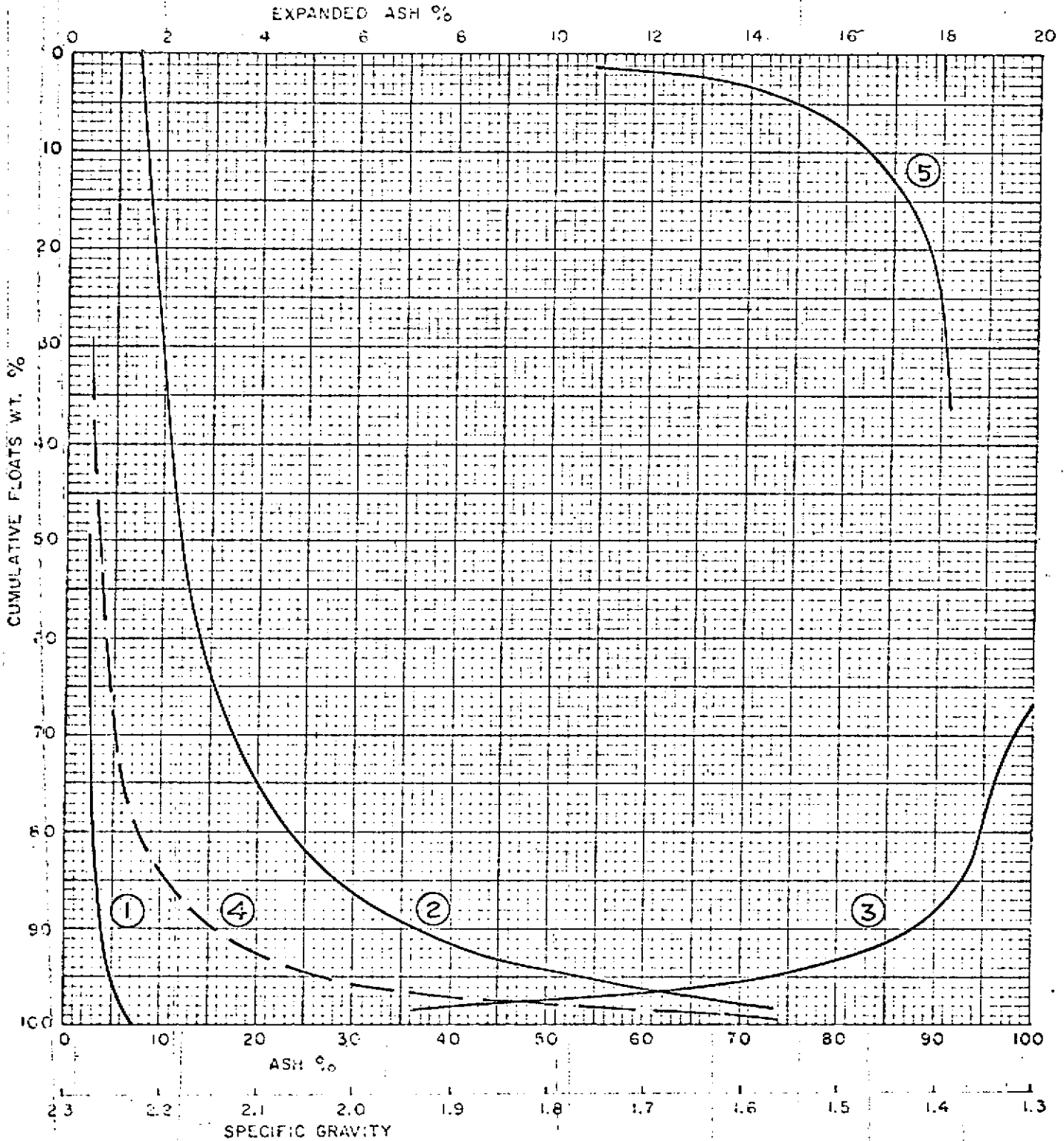
FIGURE

COMPANY Denison Mines Ltd.
DRILL HOLE # SD-7202
FOOTAGE: 537.2' - 541.5' (D276)

CURVE LEGEND

- 1 FLOATS
- 2 SINKS
- 3 SPECIFIC GRAVITY
- 4 ELEMENTARY ASH
- 5 NEAR GRAVITY MATERIAL
- 6 EXPANDED FLOATS

WASHABILITY CURVES



DATE : April 7, 1972.

CYCLONE ENGINEERING SALES LTD.
EDMONTON ALBERTA CANADA

DENISON MINES LTD.

Drill Hole #SD-7202

Footage: 537.2' - 541.5' (D276)

T A B L E 7: Head Analysis of -28 Mesh

Ash	6.27%
Volatile Matter	25.71%
Residual Moisture	0.54%
Fixed Carbon	67.48%
F.S.I.	8

April 6, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7202

Footage: 537.2' - 541.5' (D276)

T A B L E 8: Float-Sink of 28 x 100 Mesh and Proximate Analysis of Fractions

Specific Gravity	Wt. %	Ash %	V.M. %	F.C. %	Cum. Weight % Floats	Cum. Ash %	Cum. F.S.I.
- 1.40	91.31	2.45	26.76	70.79	91.31	2.45	9+
1.40 - 1.60	5.36	17.76	19.87	62.37	96.67	3.30	9
1.60 - 1.80	1.31	39.47	17.69	42.84	97.98	3.78	9
+ 1.80	2.02	65.33	11.98	22.69	100.00	5.02	8½
Total	100.00	5.02	25.96	69.02			

April 6, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7202
Footage: 537.2' - 541.5' (D276)

T A B L E 9: Froth Flotation Test on -28 Mesh

Solids, by weight in Slurry	8%
Time of Flotation	1.5 minutes
Flotation Recovery	94.08%
Reagents	MIBC & Kerosene

Analysis of the Products

	<u>Concentrate</u>	<u>Tailings</u>
Ash, %	3.93	27.81
Volatile Matter, %	26.68	
Residual Moisture, %	0.54	
Fixed Carbon, %	68.84	
F.S.I.	8½	
Sulphur, %	0.55	

April 6, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7202

Footage: 537.2' - 541.5' (D276)

CLEAN COAL COMPOSITE

Specific Gravity at 7% Ash for +28 Mesh	-
Yield of Floats at 7% Ash in +28 Mesh	100.00%
Weight % of Floats in the Composite Clean Coal	75.26%
Weight % of Flotation Concentrate in Composite Clean Coal	24.74%

T A B L E 10: Proximate Analysis of Clean Coal Composite

Ash	6.37%
Volatile Matter	24.98%
Residual Moisture	0.53%
Fixed Carbon	68.12%
F.S.I.	8
Sulphur	0.48%

April 7, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7202

Footage: 541.5' - 544.0' (D278)

T A B L E 1: Raw Sample Analysis

Ash	48.17%
Volatile Matter	15.88%
Residual Moisture	0.72%
Fixed Carbon	35.23%
F.S.I.	3½
B.T.U./lb.	7,420
Sulphur	0.40%

April 6, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7202
Footage: 541.5' - 544.0' (D278)

T A B L E 2: Size Consist of Head Sample

	<u>Weight %</u>
+28 Mesh	78.17
28 x 100 Mesh	15.29
-100 Mesh	<u>6.54</u>
Total	<u>100.00</u>

April 6, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7202

Footage: 541.5' - 544.0' (D278)

T A B L E 3: Head Analysis of +28 Mesh

Ash	52.82%
Volatile Matter	14.57%
Residual Moisture	0.84%
Fixed Carbon	31.77%
F.S.I.	2

April 6, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7202
Footage: 541.5' - 544.0' (D278)

T A B L E 4: Weight % and Proximate Analysis of Specific Gravity Fractions: +28 Mesh

Sp. Gr.	Wt. %	Ash %	V.M. %	R.M. %	F.C. %
- 1.30	10.34	3.61	28.10	0.85	67.44
1.30 - 1.35	5.40	7.39	25.53	0.87	66.21
1.35 - 1.40	6.25	14.63	24.32	0.83	60.22
1.40 - 1.45	4.01	19.30	22.88	0.75	57.07
1.45 - 1.50	3.89	22.65	20.73	0.78	55.84
1.50 - 1.60	4.77	28.02	19.24	0.81	51.93
1.60 - 1.70	3.23	38.16	17.65	0.88	43.31
1.70 - 1.80	3.40	43.43	17.03	0.85	38.69
+ 1.80	58.71	76.71	9.00	0.84	13.45
Total	100.00	52.42	14.88	0.84	31.86

April 6, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7202

Footage: 541.5' - 544.0' (D278)

T A B L E 5: Weight %, Proximate Analysis and Free Swelling Index of Cumulative Floats: +28 Mesh

Sp. Gr.	Wt. %	Ash %	V.M. %	R.M. %	F.C. %	F.S.I. *
- 1.30	10.34	3.61	28.10	0.85	67.44	9+
- 1.35	15.74	4.91	27.22	0.86	67.01	9+
- 1.40	21.99	7.67	26.39	0.85	65.09	9+
- 1.45	26.00	9.46	25.85	0.83	63.86	9½
- 1.50	29.89	11.18	25.19	0.83	62.80	9
- 1.60	34.66	13.50	24.37	0.83	61.30	9
- 1.70	37.89	15.60	23.79	0.83	59.78	8½
- 1.80	41.29	17.89	23.24	0.83	58.04	8
Total	100.00	52.42	14.88	0.84	31.86	2

* F.S.I. by actual determination.

April 6, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7202
Footage: 541.5' - 544.0' (D278)

T A B L E 6: Washability Data: +28 Mesh

Specific Gravity	Fractional		Cumulative				Elementary Ash	
	Wt. %	Ash%	Floats		Sinks		Wt. %	Ash %
			Wt. %	Ash%	Wt. %	Ash%		
- 1.30	10.34	3.61	10.34	3.61	100.00	52.42	5.17	3.61
1.30 - 1.35	5.40	7.39	15.74	4.91	89.66	58.05	13.04	7.39
1.35 - 1.40	6.25	14.63	21.99	7.67	84.26	61.30	18.86	14.63
1.40 - 1.45	4.01	19.30	26.00	9.46	78.01	65.04	23.99	19.30
1.45 - 1.50	3.89	22.65	29.89	11.18	74.00	67.52	27.94	22.65
1.50 - 1.60	4.77	28.02	34.66	13.50	70.11	70.01	32.27	28.02
1.60 - 1.70	3.23	38.16	37.89	15.60	65.34	73.07	36.28	38.16
1.70 - 1.80	3.40	43.43	41.29	17.89	62.11	74.89	39.59	43.43
+ 1.80	58.71	76.71	100.00	52.42	58.71	76.71	70.65	76.71
Total	100.00	52.42						

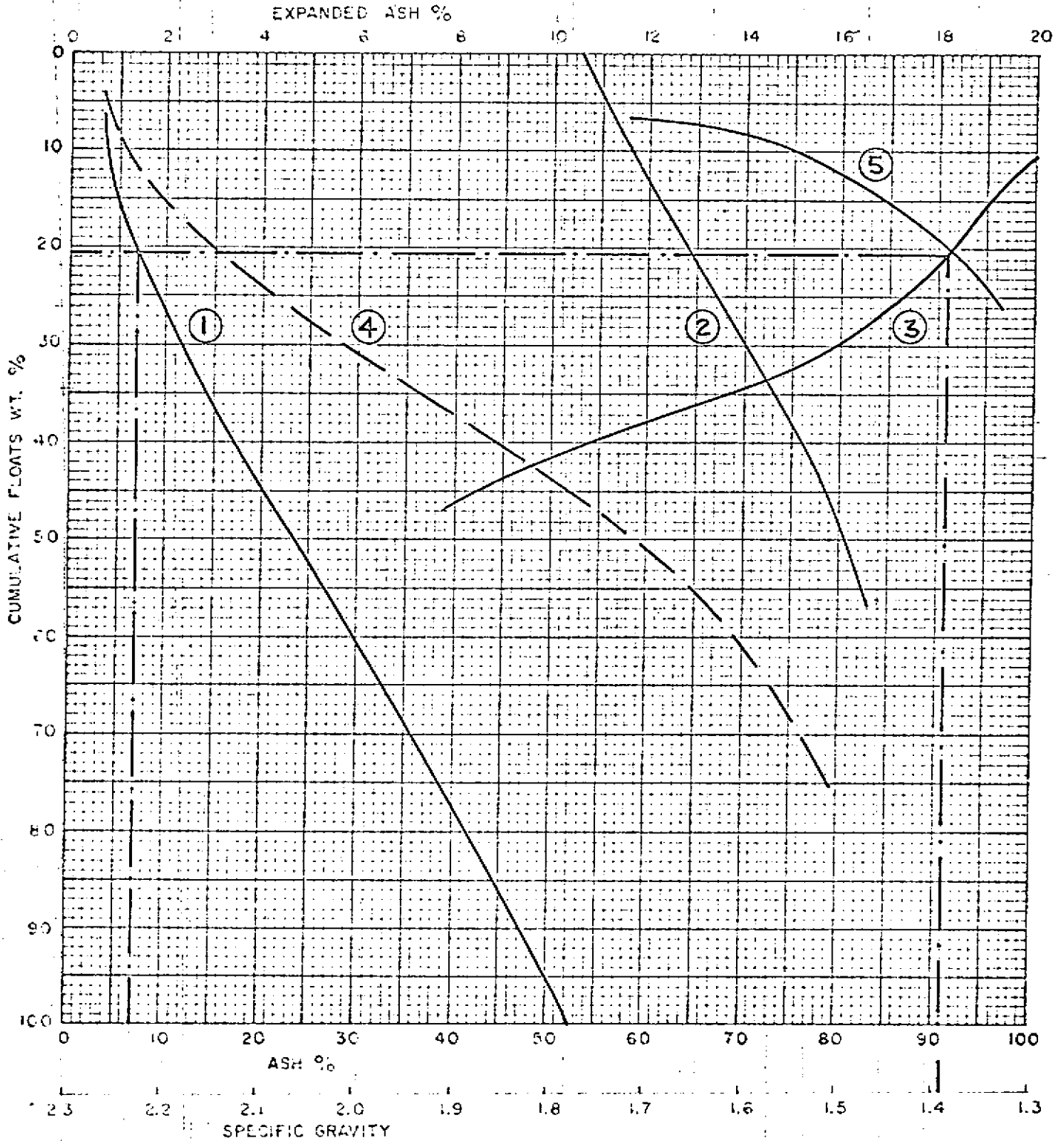
FIGURE

COMPANY Denison Mines Ltd.
DRILL HOLE # SD-7202
FOOTAGE 541.5' - 544.0' (D278)

CURVE LEGEND

- 1 FLOATS
- 2 SINKS
- 3 SPECIFIC GRAVITY
- 4 ELEMENTARY ASH
- 5 NEAR GRAVITY MATERIAL
- 6 EXPANDED FLOATS

WASHABILITY CURVES



DATE : April 7, 1972.

CYCLONE ENGINEERING SALES LTD.
EDMONTON ALBERTA CANADA

DENISON MINES LTD.

Drill Hole #SD-7202

Footage: 541.5' - 544.0' (D278)

T A B L E 7: Head Analysis of -28 Mesh

Ash	30.94%
Volatile Matter	21.66%
Residual Moisture	0.81%
Fixed Carbon	46.59%
F.S.I.	7

April 6, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7202

Footage: 541.5' - 544.0' (D278)

T A B L E 8: Float-Sink of 28 x 100 Mesh and Proximate Analysis of Fractions

Specific Gravity	Wt. %	Ash %	V.M. %	F.C. %	Cum. Weight % Floats	Cum. Ash %	Cum. F.S.I.
- 1.40	43.82	5.19	67.24	67.24	43.82	5.19	9+
1.40 - 1.60	15.57	16.30	24.53	59.17	59.39	8.10	9+
1.60 - 1.80	11.77	29.97	21.17	48.86	71.16	11.72	9+
+ 1.80	28.84	76.26	10.48	13.26	100.00	30.33	8½
Total	100.00	30.33	21.41	48.26			

April 6, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7202
Footage: 541.5' - 544.0' (D278)

T A B L E 9: Froth Flotation Test on -28 Mesh

Solids, by weight in Slurry	8%
Time of Flotation	1.5 minutes
Flotation Recovery	60.71%
Reagents	MIBC & Kerosene

ANALYSIS OF THE PRODUCTS

	<u>Concentrate</u>	<u>Tailings</u>
Ash, %	16.27	50.90
Volatile Matter, %	24.39	
Residual Moisture, %	0.81	
Fixed Carbon, %	58.53	
F.S.I.	8½	
Sulphur, %	0.45	

April 6, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7202
Footage: 541.5' - 544.0' (D278)

CLEAN COAL COMPOSITE

Specific Gravity at 7% Ash for +28 Mesh	1.39
Yield of Floats at 7% Ash in +28 Mesh	20.50%
Weight % of Floats at 1.39 in the Composite Clean Coal	55.76%
Weight % of Flotation Concentrate in Composite Clean Coal	44.24%

T A B L E 10: Proximate Analysis of Clean Coal Composite

Ash	11.12%
Volatile Matter	25.42%
Residual Moisture	0.82%
Fixed Carbon	62.64%
F.S.I.	9
Sulphur	0.37%

April 6, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7202

Footage: 634.0' - 638.6'

638.6' - 640.0' (D280 & D282)

T A B L E 1: Raw Sample Analysis

Ash	44.88%
Volatile Matter	16.60%
Residual Moisture	0.72%
Fixed Carbon	37.80%
F.S.I.	3½
B.T.U./lb.	7,510
Sulphur	0.62

April 7, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7202

Footage: 634.0 - 638.6'

638.6' - 640.0' (D280 & D282)

T A B L E 2: Size Consist of Head Sample

	<u>Weight %</u>
+28 Mesh	72.33
28 x 100 Mesh	18.60
-100 Mesh	<u>9.07</u>
Total	<u>100.00</u>

April 7, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7202

Footage: 634.0' - 638.6'

638.6' - 640.0' (D280 & D282)

T A B L E 3: Head Analysis of +28 Mesh

Ash	49.34%
Volatile Matter	16.00%
Residual Moisture	0.74%
Fixed Carbon	33.92%
F.S.I.	3

April 7, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7202

Footage: 634.0' - 638.6'

638.6' - 640.0' (D280 & D282)

T A B L E 4: Weight % and Proximate Analysis of Specific Gravity Fractions: +28 Mesh

Sp. Gr.	Wt. %	Ash %	V.M. %	R.M. %	F.C. %
- 1.30	23.60	2.43	26.26	0.72	70.59
1.30 - 1.35	8.98	4.32	23.84	0.79	71.05
1.35 - 1.40	3.13	9.54	22.41	0.79	67.26
1.40 - 1.45	1.53	14.85	20.90	0.78	63.47
1.45 - 1.50	1.63	21.16	20.41	0.75	57.68
1.50 - 1.60	2.06	28.78	19.83	0.76q	50.63
1.60 - 1.70	1.87	38.05	18.15	0.75	43.05
1.70 - 1.80	2.09	46.55	16.64	0.75	36.06
+ 1.80	55.11	81.64	9.25	0.73	8.38
Total	100.00	49.10	15.89	0.74	34.27

April 7, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7202

Footage: 634.0' - 638.6'
638.6' - 640.0' (D280 & D282)

T A B L E 5: Weight %, Proximate Analysis and Free Swelling Index of Cumulative Floats: +28 Mesh

Sp. Gr.	Wt. %	Ash %	V.M. %	R.M. %	F.C. %	F.S.I.*
- 1.30	23.60	2.43	26.26	0.72	70.59	9+
- 1.35	32.58	2.95	25.59	0.74	70.72	9+
- 1.40	35.71	3.53	25.31	0.76	70.40	9+
- 1.45	37.24	3.99	25.13	0.76	70.12	9+
- 1.50	38.87	4.71	24.93	0.76	69.60	9
- 1.60	40.93	5.92	24.68	0.76	68.64	9
- 1.70	42.80	7.33	24.39	0.76	67.52	8½
- 1.80	44.89	9.15	24.03	0.76 g	66.06	8
Total	100.00	49.10	15.89	0.74	34.27	3

* F.S.I. by actual determination.

April 7, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7202

Footage: 634.0' - 638.6'

638.6' - 640.0' (D280 & D282)

T A B L E 6: Washability Data: +28 Mesh

Specific Gravity	+ Fractional		Cumulative				Elementary Ash	
	Wt. %	Ash%	Floats		Sinks		Wt. %	Ash %
			Wt. %	Ash%	Wt. %	Ash%		
- 1.30	23.60	2.43	23.60	2.43	100.00	49.10	11.80	2.43
1.30 - 1.35	8.98	4.32	32.58	2.95	76.40	63.52	28.09	4.32
1.35 - 1.40	3.13	9.54	35.61	3.53	67.42	71.40	34.14	9.54
1.40 - 1.45	1.53	14.85	37.24	3.99	64.29	74.41	36.48	14.85
1.45 - 1.50	1.63	21.16	38.87	4.71	62.76	75.87	38.06	21.16
1.50 - 1.60	2.06	28.78	40.93	5.92	61.13	77.33	39.90	28.78
1.60 - 1.70	1.87	38.05	42.80	7.33	59.07	79.02	41.86	38.05
1.70 - 1.80	2.09	46.55	44.89	9.15	57.20	80.36	43.84	46.55
+ 1.80	55.11	81.64	100.00	49.10	55.11	81.64	72.45	81.64
Total	100.00	49.10						

April 7, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

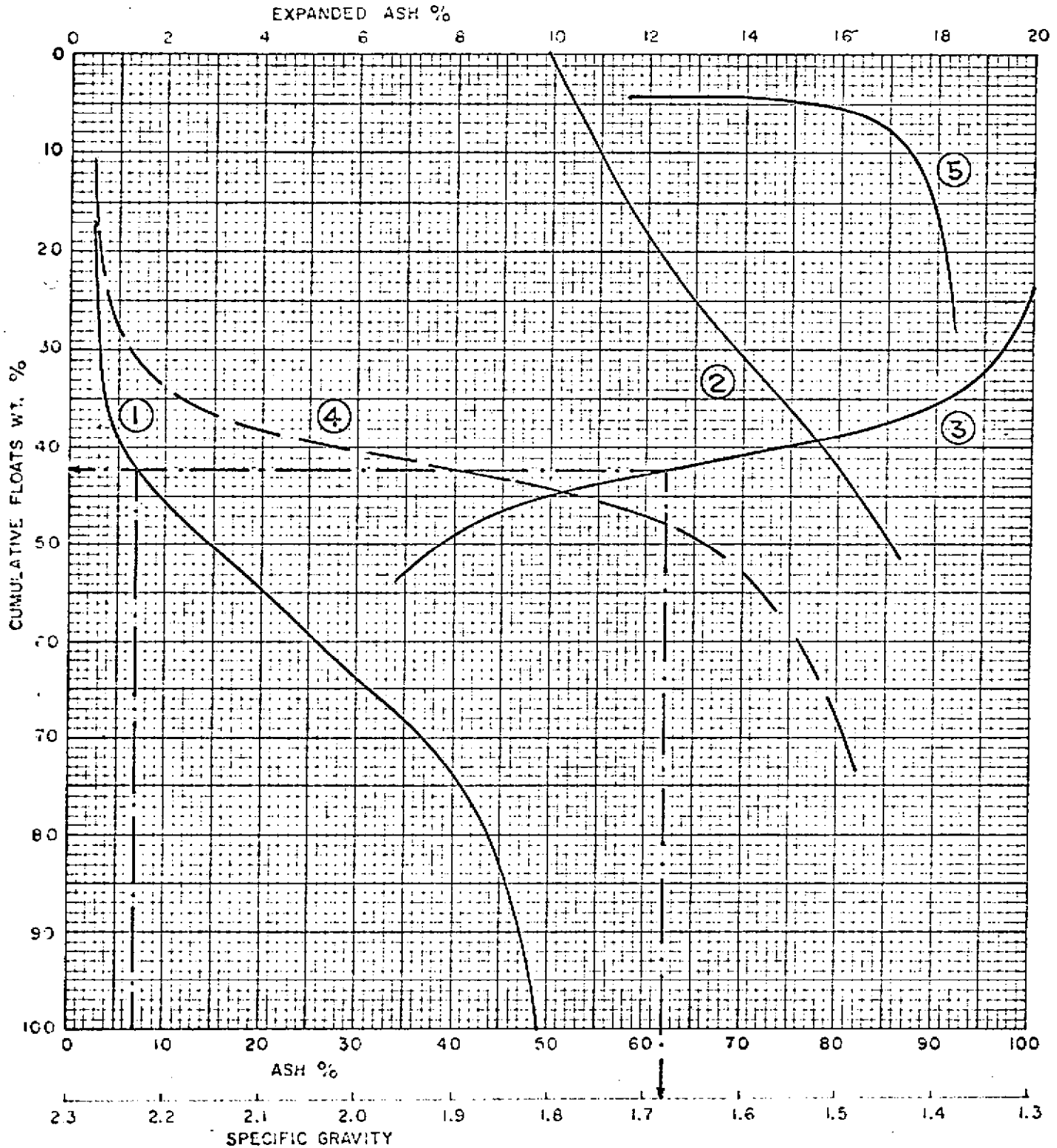
FIGURE

COMPANY Denison Mines Ltd.
DRILL HOLE # SD-7202
FOOTAGE 634.0' - 640.0' (D280 & D282)

CURVE LEGEND

- 1 FLOATS
- 2 SINKS
- 3 SPECIFIC GRAVITY
- 4 ELEMENTARY ASH
- 5 NEAR GRAVITY MATERIAL
- 6 EXPANDED FLOATS

WASHABILITY CURVES



DENISON MINES LTD.

Drill Hole #SD-7202

Footage: 634.0' - 638.6'
638.6' - 640.0' (D280 & D282)

T A B L E 7: Head Analysis of -28 Mesh

Ash	33.47%
Volatile Matter	19.56%
Residual Moisture	0.68%
Fixed Carbon	46.29%
F.S.I.	5½

April 7, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #S^D-7202

Footage: 634.0' - 638.6'
638.6' - 640.0' D280 & D282)

T A B L E 8: Float-Sink of 28 x 100 Mesh and Proximate Analysis of Fractions

Specific Gravity	Wt. %	Ash %	V.M. %	F.C. %	Cum. Weight % Floats	Cum. Ash %	Cum. F.S.I.
- 1/40	40.48	4.34	25.17	70.49	40.48	4.34	9+
1.40 - 1.60	16.63	12.16	20.35	67.49	57.11	6.62	9+
1.60 - 1.80	9.91	31.49	17.64	50.87	67.02	10.29	9
+ 1.80	32.98	75.45	11.08	13.47	100.00	31.78	5½
Total	100.00	31.78	18.98	49.24			

April 7, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7202

Footage: 634.0' - 638.6'
638.6' - 640.0' (D280 & D282)

T A B L E: 9: Froth Flotation Test on -28 Mesh

Solids, by weight in Slurry	8%
Time of Rotation	1.5 minutes
Flotation Recovery	58.97%
Reagents	MIBC & Kerosene

Analyses of the Products

	<u>Concentrate</u>	<u>Tailings</u>
Ash, %	18.18	53.34
Volatile Matter, %	22.98	
Residual Moisture, %	0.69	
Fixed Carbon, %	58.15	
F.S.I.	7½	
Sulphur, %	0.72	

April 7, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

DENISON MINES LTD.

Drill Hole #SD-7202

Footage: 634.0' - 638.6'

638.6' - 640.0' (D280 & D282)

CLEAN COAL COMPOSITE

Specific Gravity at 7% Ash for +28 Mesh	1.68
Yield of Floats at 7% Ash in +28 Mesh	42.00%
Weight % of Floats at 1.68 in the Composite Clean Coal	65.10%
Weight % of Flotation Concentrate in Composite Clean Coal	34.90%

T A B L E 10: Proximate Analysis of Clean Coal Composite

Ash	9.89%
Volatile Matter	24.02%
Residual Moisture	0.73%
Fixed Carbon	65.36%
F.S.I.	8
Sulphur	0.56%

April 7, 1972.

CYCLONE ENGINEERING SALES LTD.
Edmonton, Alberta, Canada.

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PR-SAXON 72 (C)

EXPLORATION RESULTS:
SAXON COAL LTD. LICENCES 1483-1535 INCL
NOVEMBER 1, 1971 - SEPTEMBER 30, 1972

CONFIDENTIAL

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EXPLORATION RESULTS: SAXON COAL LTD. LICENCES 1483 - 1535 INCL.

NOVEMBER 1, 1971 - SEPTEMBER 30, 1972

GEOLOGICAL BRANCH
ASSESSMENT REPORT

00 624

Submitted by:

G. P. GORMLEY, P. GEOL.
DENISON MINES LTD. COAL DIVISION
CALGARY, ALBERTA.

October 16, 1972

TABLE OF CONTENTS

	Page
Table of Contents	I
List of Maps, Illustrations & Appendices	II
Introduction	1
Diamond Drilling	2
Geophysical Logs	3
Analysis of Coal Intersections	3
Aditing	4
Adit Bulk Samples	4
Geology	5
Road Construction & Reclamation	5
Saxon Project Expenditure	6

LIST OF MAPS, ILLUSTRATIONS & APPENDICES

The following maps and illustrations are enclosed in the envelopes marked I & II.

Envelope I

1. ✓ Saxon Coal License Map
2. ✓ Revised Saxon Geology 1" - 2,000'
3. ✓ Saxon Drill Hole Correlation Sheet (Geophysical Logs)
4. ✓ Saxon Adit Data Summary Sheets (1 - 4)

Envelope II

1. ✓ Revised Saxon Cross Sections 1" - 400' (15)
- | | | |
|--------|--------|--------|
| A - A' | F - F' | K - K' |
| B - B' | G - G' | L - L' |
| C - C' | H - H' | M - M' |
| D - D' | I - I' | N - N' |
| E - E' | J - J' | O - O' |
- ✓ Appendix I

Analysis of Coal Intersections from Saxon Diamond Drilling

✓ Appendix II

Reports on Washability & Cleaning from Saxon Adits 1 - 4

INTRODUCTION

The following report contains exploration results obtained by Denison Mines Limited on exploration of licenses no.'s 1483 - 1535 inclusive, registered under the name of Saxon Coal Limited for the period November 1, 1971 to September 30, 1972. A statement of exploration costs is included.

The exploration work consisted of five diamond drill holes for a total of 5,772 feet and 4 adits, which were driven for a total of 404 feet. Geophysical logging and analysis of coal intersections was carried out for each drill hole. Bulk samples were taken from each adit and complete quality tests were run. A total of approximately 7.5 miles of new road were constructed to gain access to the various drill and adit sites.

DIAMOND DRILLING

Tonto Exploration Ltd. of Vancouver, B. C. was contracted by Denison to carry out HQ wireline diamond drilling and completed the following holes to the depths indicated:

<u>Hole No.</u>	<u>Depth</u>
S - 71-01	1390
S - 71-02	1134
S - 71-03	1212
S - 72-01	1283
S - 72-02	753
	<u>5772</u>

These holes have been surveyed by chain and compass and are accurately located on the revised Saxon Geology Map. Lithologic logs of the core from these holes have been transposed into the center strip of the geophysical logs. All core except for coal intersections has been retained at the main campsite on the property.

GEOPHYSICAL LOGS

B.P.B. Instruments Ltd. of Calgary was contracted to carry out the geophysical logging of the diamond drill holes. Gamma, neutron-neutron and High Resolution Density (HRD) readings for each drill hole have been recorded. A reduction of these logs and correlation of the coal seams encountered as well as those previously located is enclosed on the "Saxon Drill Hole Correlation Sheet".

ANALYSIS OF COAL INTERSECTIONS

All coal seams of potential economic significance which were intersected in the drill holes were composed and sent to Cyclone Engineering Sales Ltd. of Edmonton for analysis. The results of this work are documented in Appendix I, "Analysis of Coal Intersections from Saxon Diamond Drilling".

ADITING

Four adits were driven during this phase of exploration work. Sites were prepared on the basis of present and previous geological mapping. The contract for adit drivage was awarded to Tia Maria Mining Ltd. Locations of the adits have been surveyed by chain and compass and plotted on the Revised Saxon Geology Map. Dimensions and other particulars for each adit are illustrated on "Saxon Adit Data Summary Sheets (1 - 4)".

ADIT BULK SAMPLES

A representative six ton bulk sample was taken from the face of each adit. These samples were sent to Cyclone Engineering Ltd. in Edmonton and the results of this analysis constitute Appendix II of this report "Reports on Washability and Cleaning from Saxon Adits 1 - 4".

GEOLOGY

All additional geological information acquired from this phase of exploration has been plotted on the Revised Saxon Geology Map. Cross sections have been made from this map at a scale of 1" to 400' incorporating all drill hole information. Reports previously submitted give descriptions of the formations and coal zones encountered on the licenses.

ROAD CONSTRUCTION & RECLAMATION

All present roads on the property have been plotted on the geology map. Approximately 7.5 miles of access road construction were completed during this phase of the work. A contract for the reclamation of roads, adit, drill and campsites has recently been let.

SAXON PROJECT EXPENDITURE

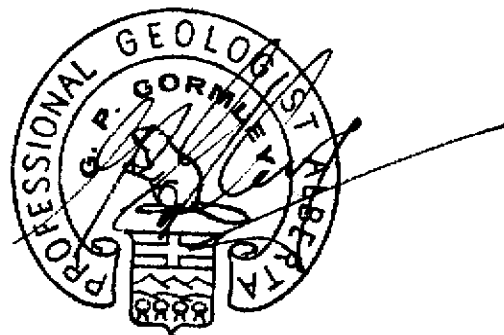
The following is a breakdown of actual expenditures incurred in exploration work on Saxon Coal Ltd. licenses 1483 - 1535 inclusive from November 1, 1971 to September 30, 1972.

<u>Cost Code</u>	<u>Description</u>	<u>Amount</u>
1300	Ground Examination	\$ 5,255.00
1600	Ground Geophysics	7,423.00
1900	Land Survey	15,130.00
2000	Diamond Drilling	140,980.00
2300	Aditing	64,792.00
2400	Road Construction and Maintenance	5,851.00
2600	Field Camp	45,371.00
2900	Reclamation	236.00
3000	General Field	14,195.00
		<u>\$299,233.00</u>

EXPLORATION RESULTS: SAXON COAL LTD. LICENCES 1483 - 1535 INCL.

NOVEMBER 1, 1971 - SEPTEMBER 30, 1972

The work outlined and results obtained which are documented in the report and associated appendices are correct to the best of my knowledge and were obtained during the period indicated. The statement of expenditures has been prepared by the accounting department of Denison Mines Limited and represents actual costs which were incurred to acquire these results. Costs of executive personnel are not included.



G. P. Gormley, P. Geol.
Project Geologist
DENISON MINES LIMITED
(COAL DIVISION)
CALGARY, Alberta

October 16, 1972.