Capillary pressure testing of selected core samples from

Arco Alaska Inc. Kavik Unit No. 3 well (5,325'-5,440'), and

Exxon Corporation Canning River Unit Block A-1 well (4,875'-4,883').

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Capillary Pressure Testing of Selected Samples Kavik #3 and Canning River A-1 Wells, Alaska

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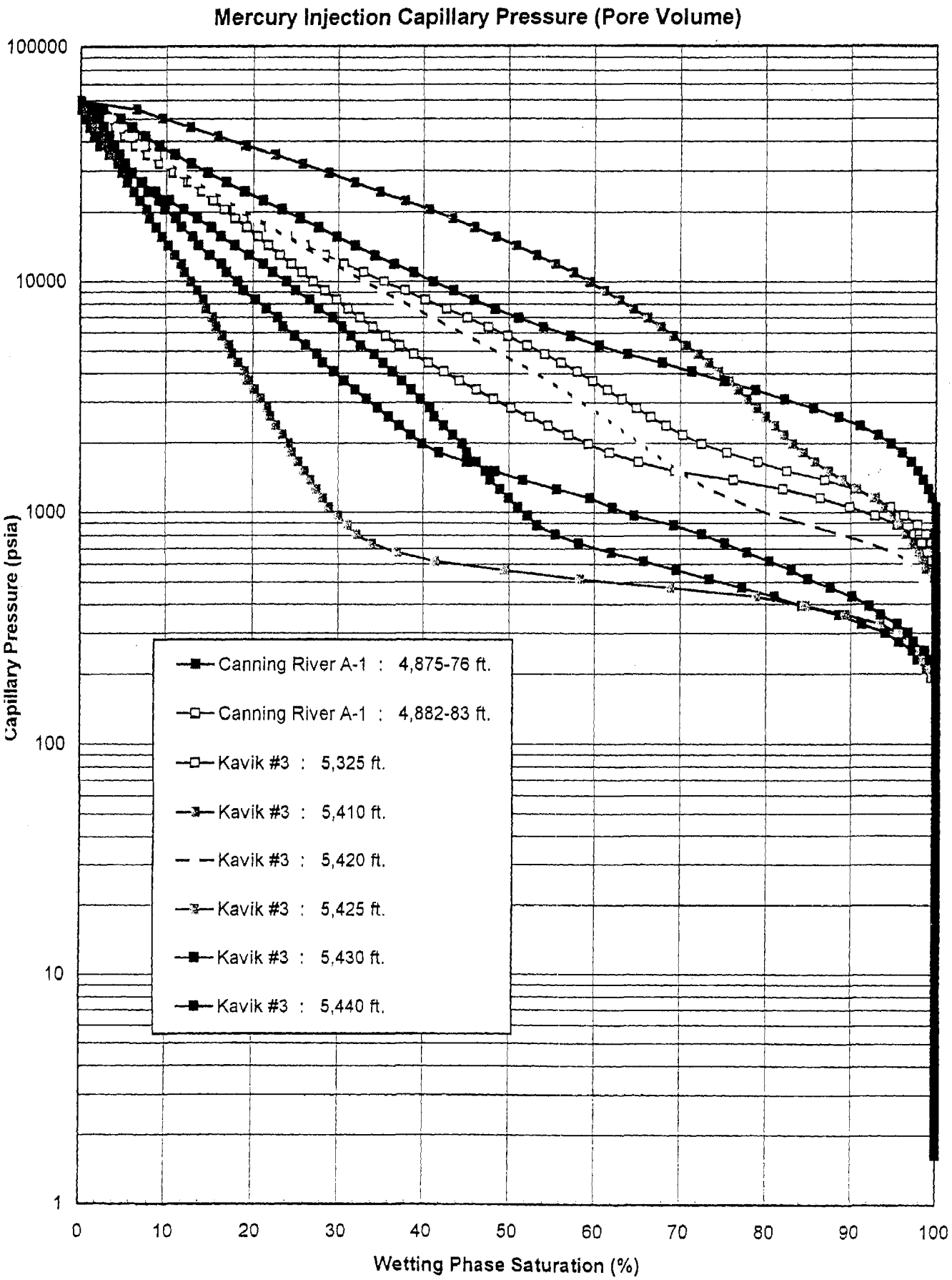
TABLE 1

Pore Space Properties

Well	Sample Depth (ft.)	Mercury Injection Phi (%)	Mercury Injection K (md)	Median Aperture	Values at Entry Pressure (psia)	Values at Entry Aperture Size	Remarks
Canning River A-1	4,875 - 876	4.62	0.026	0.186	175	1.22	slightly bimodal, broad second peak
	4,882 - 883	1.48	0.001	0.0370	673	0.317	moderate bimodal, 0.1-0.2 sharp/.02-.03 broad
Kavik #3	5,325	4.16	0.0044	0.0740	563	0.379	unimodal with tail, 0.1-0.2
	5,410	2.01	-	0.0145	393	0.543	bimodal with small first peak, .1-.2/.005-.006
	5,420	3.26	0.037	0.0459	393	0.543	moderate bimodal, 0.1-0.2 sharp/.02-.03 broad
	5,425	6.79	0.091	0.3811	175	1.22	unimodal sharp, 0.4
	5,430	3.90	0.0086	0.148	209	0.102	unimodal with tail, 0.2
	5,440	1.65	-	0.0296	1050	0.203	unimodal broad, 0.05

Aperture sizes are diameter in microns


Mercury Injection Capillary Pressure (Pore Volume)
100000
10000
1000
100
10
1
Capillary Pressure (psia)
0
10
20
30
40
50
60
70
80
90
100
Wetting Phase Saturation (%)
Canning River A-1 : 4,875-76 ft.
Canning River A-1 : 4,882-83 ft.
Kavik #3 : 5,325 ft.
Kavik #3 : 5,410 ft.
Kavik #3 : 5,420 ft.
Kavik #3 : 5,425 ft.
Kavik #3 : 5,430 ft.
Kavik #3 : 5,440 ft.

Mercury Injection Capillary Pressure

Canning River A-1 : 4,875 - 76 feet
File 001-550

Sample Information	
Bulk Volume = 9.8491 cc	Porosity = 4.62% (mercury)
Pore Volume = 0.4551 cc	Permeability = 0.0255 md (mercury)
Closure = 0.45%BV @ 175 psia	Median Pore Aperture = 0.186 microns

Capillary Pressure (psia)	Pore Aperture Diameter (microns)	Cumulative Bulk Vol. (%)	Wetting Phase Saturation (%)	Incremental Wetting Phase Change (%)	Saturation Change per psia
1.64	130	0.03	100.0	0.00	0.0000
1.80	119	0.03	100.0	0.00	0.0000
1.96	109	0.05	100.0	0.00	0.0000
2.15	99.2	0.08	100.0	0.00	0.0000
2.35	90.8	0.18	100.0	0.00	0.0000
2.57	83.0	0.20	100.0	0.00	0.0000
2.81	75.9	0.20	100.0	0.00	0.0000
3.08	69.3	0.23	100.0	0.00	0.0000
3.37	63.3	0.23	100.0	0.00	0.0000
3.68	58.0	0.25	100.0	0.00	0.0000
4.03	52.9	0.25	100.0	0.00	0.0000
4.41	48.4	0.25	100.0	0.00	0.0000
4.82	44.3	0.25	100.0	0.00	0.0000
5.27	40.5	0.28	100.0	0.00	0.0000
5.77	37.0	0.28	100.0	0.00	0.0000
6.31	33.8	0.28	100.0	0.00	0.0000
6.90	30.9	0.28	100.0	0.00	0.0000
7.55	28.3	0.28	100.0	0.00	0.0000
8.26	25.8	0.28	100.0	0.00	0.0000
9.04	23.6	0.28	100.0	0.00	0.0000
9.89	21.6	0.30	100.0	0.00	0.0000
10.8	19.8	0.30	100.0	0.00	0.0000
11.8	18.1	0.30	100.0	0.00	0.0000
12.9	16.5	0.30	100.0	0.00	0.0000
14.2	15.0	0.30	100.0	0.00	0.0000
15.5	13.8	0.30	100.0	0.00	0.0000
16.9	12.6	0.30	100.0	0.00	0.0000
18.5	11.5	0.33	100.0	0.00	0.0000
20.3	10.5	0.33	100.0	0.00	0.0000
22.2	9.61	0.33	100.0	0.00	0.0000
24.3	8.78	0.33	100.0	0.00	0.0000
26.6	8.02	0.33	100.0	0.00	0.0000
29.0	7.36	0.33	100.0	0.00	0.0000
31.8	6.71	0.35	100.0	0.00	0.0000
34.8	6.13	0.35	100.0	0.00	0.0000
38.0	5.61	0.35	100.0	0.00	0.0000

Mercury Injection Capillary Pressure

Canning River A-1 : 4,875 - 76 feet
File 001-550

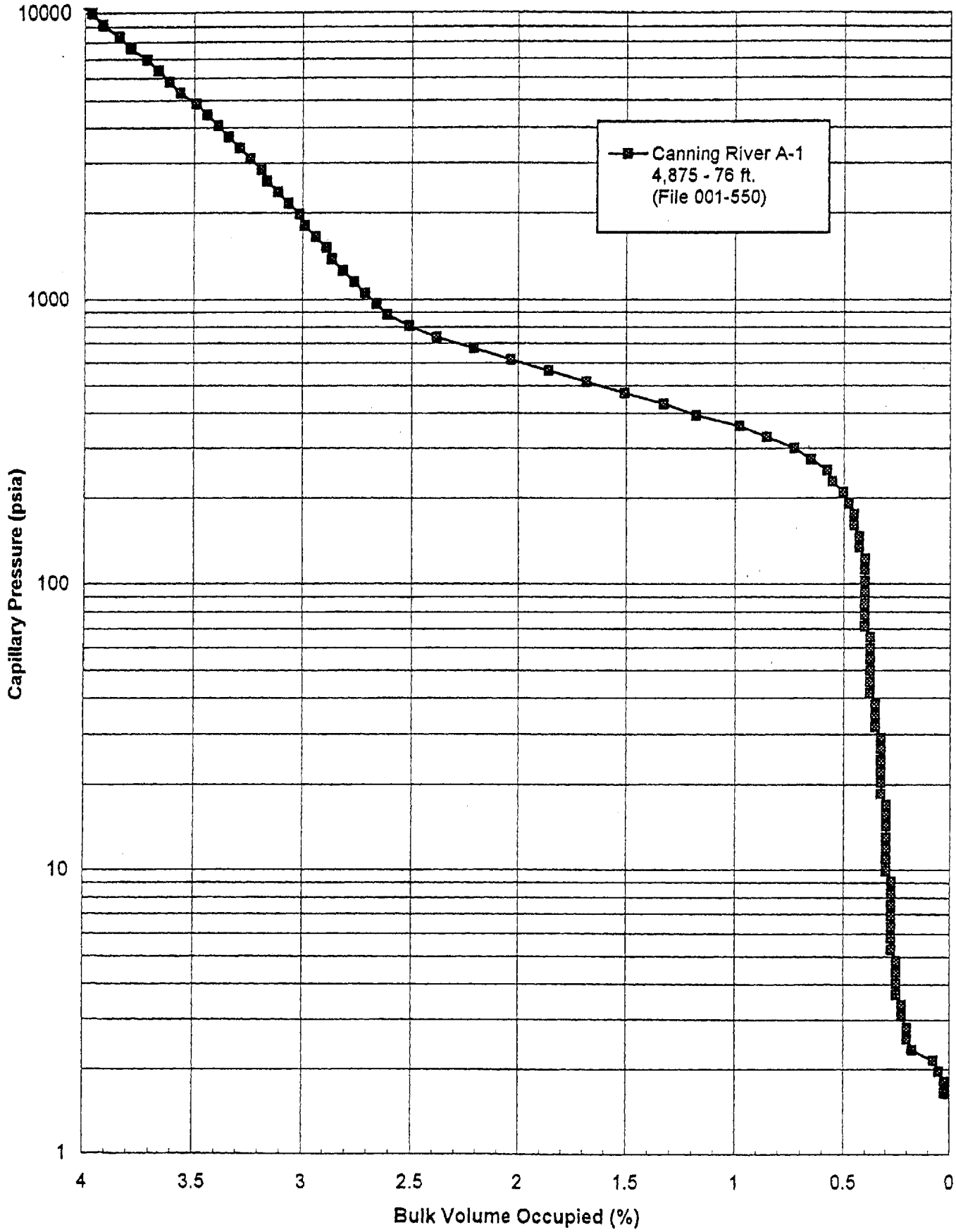
Capillary Pressure (psia)	Pore Aperture Diameter (microns)	Cumulative Bulk Vol. (%)	Wetting Phase Saturation (%)	Incremental Wetting Phase Change (%)	Saturation Change per psia
41.6	5.13	0.38	100.0	0.00	0.0000
45.5	4.69	0.38	100.0	0.00	0.0000
49.8	4.28	0.38	100.0	0.00	0.0000
54.5	3.91	0.38	100.0	0.00	0.0000
59.6	3.58	0.38	100.0	0.00	0.0000
65.2	3.27	0.38	100.0	0.00	0.0000
71.3	2.99	0.40	100.0	0.00	0.0000
78.0	2.73	0.40	100.0	0.00	0.0000
85.3	2.50	0.40	100.0	0.00	0.0000
93.4	2.28	0.40	100.0	0.00	0.0000
102	2.09	0.40	100.0	0.00	0.0000
112	1.90	0.40	100.0	0.00	0.0000
122	1.75	0.40	100.0	0.00	0.0000
134	1.59	0.43	100.0	0.00	0.0000
146	1.46	0.43	100.0	0.00	0.0000
160	1.33	0.45	100.0	0.00	0.0000
175	1.22	0.45	100.0	0.00	0.0000
191	1.12	0.48	99.5	0.54	0.0340
209	1.02	0.50	98.9	0.54	0.0302
229	0.932	0.55	97.8	1.09	0.0543
251	0.850	0.58	97.3	0.54	0.0247
274	0.779	0.65	95.7	1.63	0.0709
300	0.711	0.73	94.0	1.63	0.0627
328	0.650	0.85	91.3	2.72	0.0970
359	0.594	0.98	88.6	2.72	0.0877
393	0.543	1.18	84.2	4.35	0.1279
430	0.496	1.33	81.0	3.26	0.0881
470	0.454	1.51	77.2	3.80	0.0951
514	0.415	1.68	73.4	3.80	0.0865
563	0.379	1.86	69.6	3.80	0.0776
615	0.347	2.03	65.8	3.80	0.0732
673	0.317	2.21	62.0	3.80	0.0656
736	0.290	2.39	58.2	3.80	0.0604
806	0.265	2.51	55.4	2.72	0.0388
881	0.242	2.61	53.3	2.17	0.0290
964	0.221	2.66	52.2	1.09	0.0131
1050	0.203	2.71	51.1	1.09	0.0126
1150	0.186	2.76	50.0	1.09	0.0109
1260	0.169	2.81	48.9	1.09	0.0099
1380	0.155	2.86	47.8	1.09	0.0091
1510	0.141	2.89	47.3	0.54	0.0042
1650	0.129	2.94	46.2	1.09	0.0078

Mercury Injection Capillary Pressure

Canning River A-1 : 4,875 - 76 feet
File 001-550

Capillary Pressure (psia)	Pore Aperture Diameter (microns)	Cumulative Bulk Vol. (%)	Wetting Phase Saturation (%)	Incremental Wetting Phase Change (%)	Saturation Change per psia
1810	0.1179	2.99	45.1	1.09	0.0068
1980	0.1077	3.01	44.6	0.54	0.0032
2160	0.0988	3.06	43.5	1.09	0.0060
2370	0.0900	3.11	42.4	1.09	0.0052
2590	0.0824	3.16	41.3	1.09	0.0049
2830	0.0754	3.19	40.8	0.54	0.0023
3100	0.0688	3.24	39.7	1.09	0.0040
3390	0.0629	3.29	38.6	1.09	0.0037
3710	0.0575	3.34	37.5	1.09	0.0034
4060	0.0525	3.39	36.4	1.09	0.0031
4440	0.0480	3.44	35.3	1.09	0.0029
4850	0.0440	3.49	34.2	1.09	0.0027
5310	0.0402	3.57	32.6	1.63	0.0035
5810	0.0367	3.62	31.5	1.09	0.0022
6360	0.0335	3.67	30.4	1.09	0.0020
6950	0.0307	3.72	29.3	1.09	0.0018
7610	0.0280	3.79	27.7	1.63	0.0025
8320	0.0256	3.84	26.6	1.09	0.0015
9100	0.0234	3.92	25.0	1.63	0.0021
9960	0.0214	3.97	23.9	1.09	0.0013
10900	0.0196	4.04	22.3	1.63	0.0017
11900	0.0179	4.09	21.2	1.09	0.0011
13000	0.0164	4.17	19.6	1.63	0.0015
14300	0.0149	4.24	17.9	1.63	0.0013
15600	0.0137	4.32	16.3	1.63	0.0013
17100	0.0125	4.37	15.2	1.09	0.0007
18700	0.0114	4.45	13.6	1.63	0.0010
20400	0.0105	4.52	12.0	1.63	0.0010
22300	0.0096	4.60	10.3	1.63	0.0009
24400	0.0087	4.67	8.7	1.63	0.0008
26700	0.0080	4.75	7.1	1.63	0.0007
29300	0.0073	4.80	6.0	1.09	0.0004
32000	0.0067	4.87	4.3	1.63	0.0006
35000	0.0061	4.92	3.3	1.09	0.0004
38300	0.0056	4.97	2.2	1.09	0.0003
41900	0.0051	5.00	1.6	0.54	0.0002
45800	0.0047	5.02	1.1	0.54	0.0001
50100	0.0043	5.05	0.5	0.54	0.0001
54800	0.0039	5.07	0.0	0.54	0.0001
59500	0.0036	5.07	0.0	0.00	0.0000

Mercury Injection Capillary Pressure (Bulk Volume)



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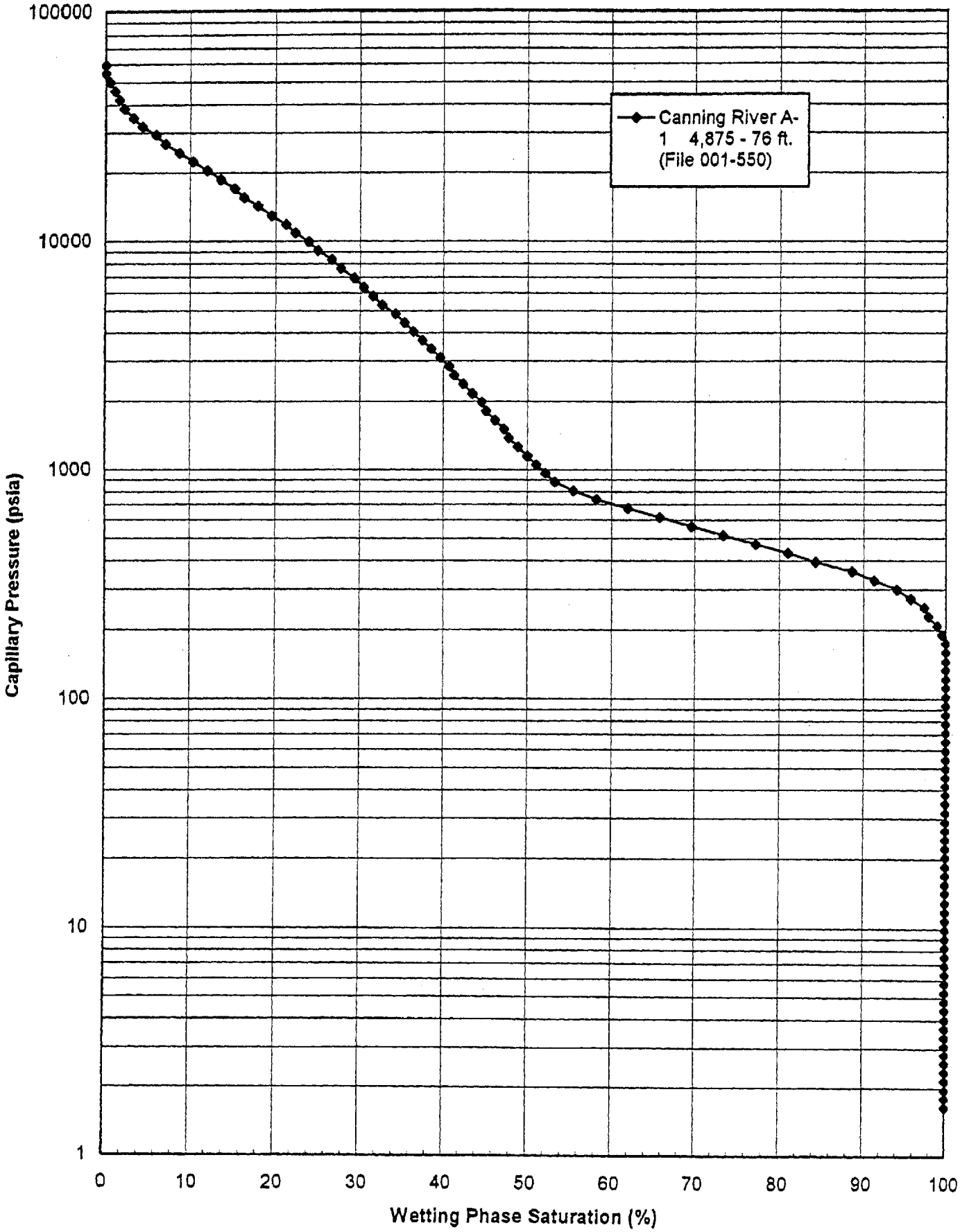
Mercury Injection Capillary Pressure (Pore Volume)



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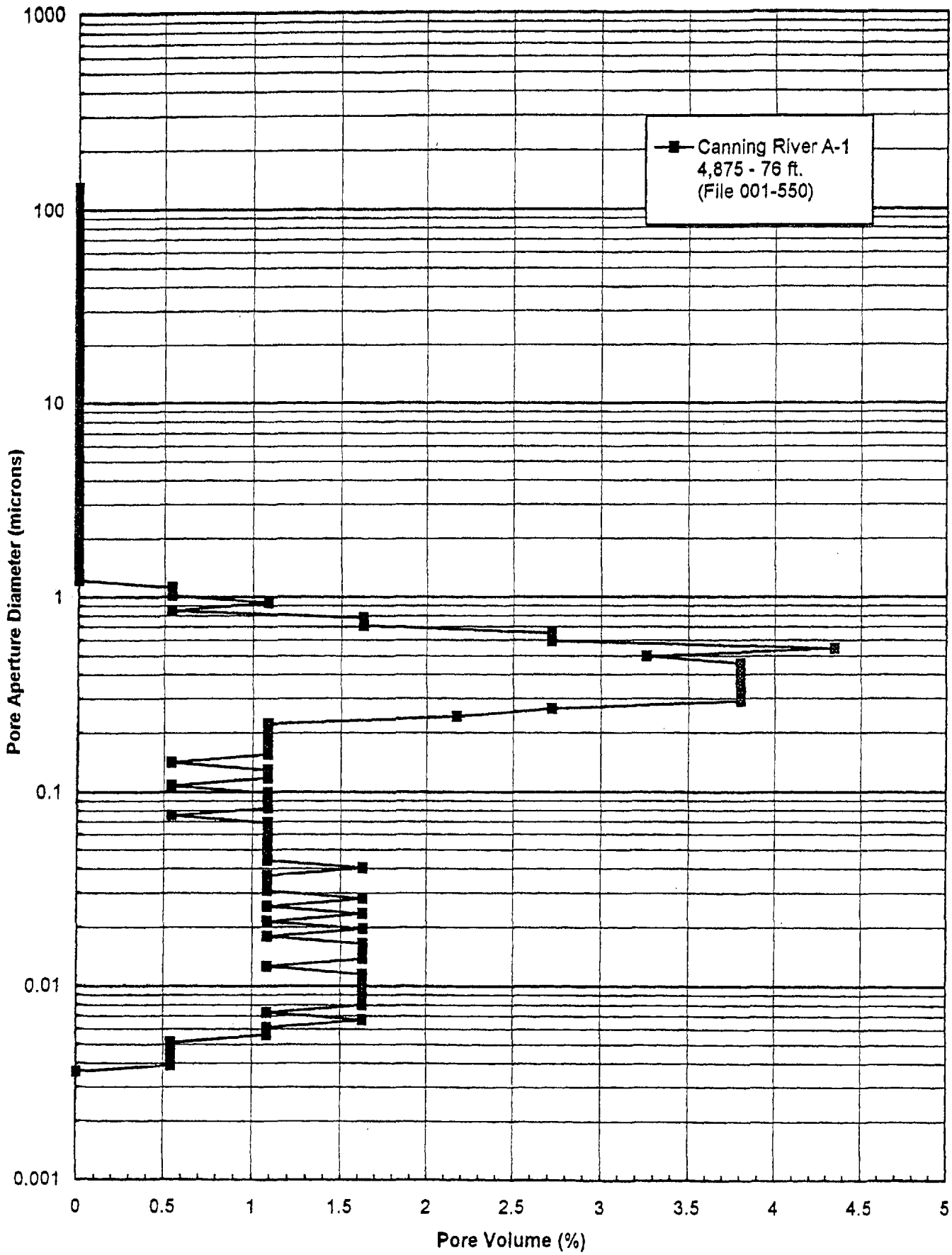
Pore Aperture Size Distribution



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Mercury Injection Capillary Pressure

Canning River A-1 : 4,882 - 83 feet
File 001-552

Sample Information	
Bulk Volume = 7.5391 cc	Porosity = 1.48% (mercury)
Pore Volume = 0.1112 cc	Permeability = 0.001 md (mercury)
Closure = 0.46%BV @ 673 psia	Median Pore Aperture = 0.037 microns

Capillary Pressure (psia)	Pore Aperture Diameter (microns)	Cumulative Bulk Vol. (%)	Wetting Phase Saturation (%)	Incremental Wetting Phase Change (%)	Saturation Change per psia
1.64	130	0.02	100.0	0.00	0.0000
1.80	119	0.04	100.0	0.00	0.0000
1.96	109	0.07	100.0	0.00	0.0000
2.15	99.2	0.09	100.0	0.00	0.0000
2.35	90.8	0.11	100.0	0.00	0.0000
2.57	83.0	0.13	100.0	0.00	0.0000
2.81	75.9	0.24	100.0	0.00	0.0000
3.08	69.3	0.30	100.0	0.00	0.0000
3.37	63.3	0.31	100.0	0.00	0.0000
3.68	58.0	0.32	100.0	0.00	0.0000
4.03	52.9	0.33	100.0	0.00	0.0000
4.41	48.4	0.33	100.0	0.00	0.0000
4.82	44.3	0.34	100.0	0.00	0.0000
5.27	40.5	0.35	100.0	0.00	0.0000
5.77	37.0	0.35	100.0	0.00	0.0000
6.31	33.8	0.35	100.0	0.00	0.0000
6.90	30.9	0.36	100.0	0.00	0.0000
7.55	28.3	0.36	100.0	0.00	0.0000
8.26	25.8	0.37	100.0	0.00	0.0000
9.04	23.6	0.37	100.0	0.00	0.0000
9.89	21.6	0.38	100.0	0.00	0.0000
10.8	19.8	0.38	100.0	0.00	0.0000
11.8	18.1	0.38	100.0	0.00	0.0000
12.9	16.5	0.38	100.0	0.00	0.0000
14.2	15.0	0.38	100.0	0.00	0.0000
15.5	13.8	0.39	100.0	0.00	0.0000
16.9	12.6	0.39	100.0	0.00	0.0000
18.5	11.5	0.39	100.0	0.00	0.0000
20.3	10.5	0.39	100.0	0.00	0.0000
22.2	9.61	0.40	100.0	0.00	0.0000
24.3	8.78	0.40	100.0	0.00	0.0000
26.6	8.02	0.40	100.0	0.00	0.0000
29.0	7.36	0.41	100.0	0.00	0.0000
31.8	6.71	0.41	100.0	0.00	0.0000
34.8	6.13	0.41	100.0	0.00	0.0000
38.0	5.61	0.42	100.0	0.00	0.0000

Mercury Injection Capillary Pressure

Canning River A-1 : 4,882 - 83 feet
File 001-552

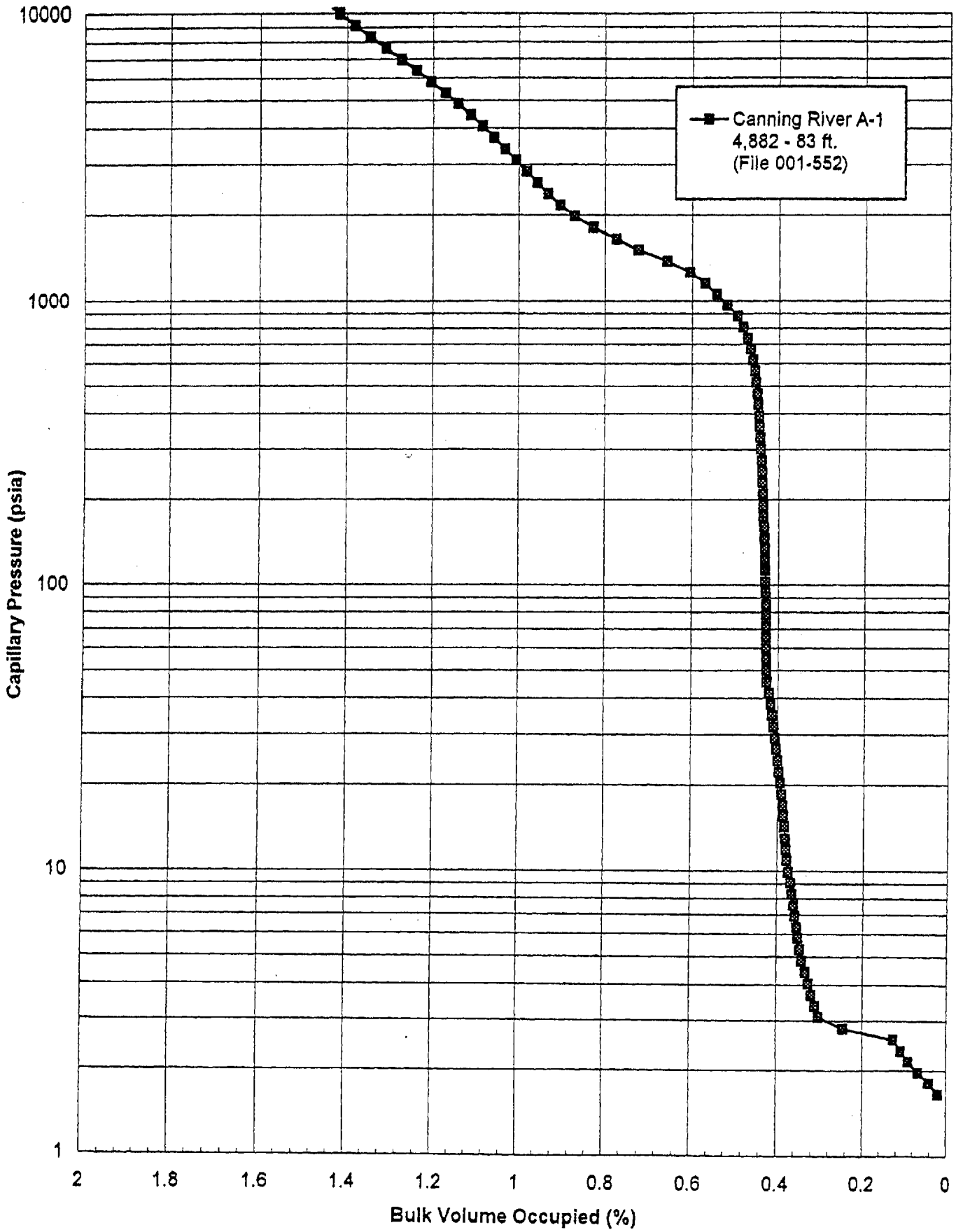
Capillary Pressure (psia)	Pore Aperture Diameter (microns)	Cumulative Bulk Vol. (%)	Wetting Phase Saturation (%)	Incremental Wetting Phase Change (%)	Saturation Change per psia
41.6	5.13	0.42	100.0	0.00	0.0000
45.5	4.69	0.43	100.0	0.00	0.0000
49.8	4.28	0.43	100.0	0.00	0.0000
54.5	3.91	0.43	100.0	0.00	0.0000
59.6	3.58	0.43	100.0	0.00	0.0000
65.2	3.27	0.43	100.0	0.00	0.0000
71.3	2.99	0.43	100.0	0.00	0.0000
78.0	2.73	0.43	100.0	0.00	0.0000
85.3	2.50	0.43	100.0	0.00	0.0000
93.4	2.28	0.43	100.0	0.00	0.0000
102	2.09	0.43	100.0	0.00	0.0000
112	1.90	0.43	100.0	0.00	0.0000
122	1.75	0.43	100.0	0.00	0.0000
134	1.59	0.43	100.0	0.00	0.0000
146	1.46	0.43	100.0	0.00	0.0000
160	1.33	0.43	100.0	0.00	0.0000
175	1.22	0.43	100.0	0.00	0.0000
191	1.12	0.43	100.0	0.00	0.0000
209	1.02	0.44	100.0	0.00	0.0000
229	0.932	0.44	100.0	0.00	0.0000
251	0.850	0.44	100.0	0.00	0.0000
274	0.779	0.44	100.0	0.00	0.0000
300	0.711	0.44	100.0	0.00	0.0000
328	0.650	0.44	100.0	0.00	0.0000
359	0.594	0.44	100.0	0.00	0.0000
393	0.543	0.45	100.0	0.00	0.0000
430	0.496	0.45	100.0	0.00	0.0000
470	0.454	0.45	100.0	0.00	0.0000
514	0.415	0.45	100.0	0.00	0.0000
563	0.379	0.45	100.0	0.00	0.0000
615	0.347	0.46	100.0	0.00	0.0000
673	0.317	0.46	100.0	0.00	0.0000
736	0.290	0.47	99.5	0.51	0.0081
806	0.265	0.48	98.9	0.64	0.0091
881	0.242	0.50	97.9	0.96	0.0127
964	0.221	0.52	96.3	1.60	0.0193
1050	0.203	0.54	94.7	1.60	0.0186
1150	0.186	0.57	92.9	1.84	0.0184
1260	0.169	0.60	90.5	2.36	0.0214
1380	0.155	0.66	87.0	3.51	0.0292
1510	0.141	0.72	82.5	4.47	0.0344
1650	0.129	0.77	79.1	3.45	0.0246

Mercury Injection Capillary Pressure

Canning River A-1 : 4,882 - 83 feet
File 001-552

Capillary Pressure (psia)	Pore Aperture Diameter (microns)	Cumulative Bulk Vol. (%)	Wetting Phase Saturation (%)	Incremental Wetting Phase Change (%)	Saturation Change per psia
1810	0.1179	0.83	75.4	3.64	0.0227
1980	0.1077	0.87	72.5	2.93	0.0172
2160	0.0988	0.90	70.3	2.22	0.0123
2370	0.0900	0.93	68.4	1.91	0.0091
2590	0.0824	0.96	66.6	1.76	0.0080
2830	0.0754	0.98	64.9	1.70	0.0071
3100	0.0688	1.01	63.2	1.69	0.0063
3390	0.0629	1.03	61.5	1.74	0.0060
3710	0.0575	1.06	59.8	1.72	0.0054
4060	0.0525	1.09	57.9	1.83	0.0052
4440	0.0480	1.11	56.1	1.88	0.0049
4850	0.0440	1.14	54.2	1.90	0.0046
5310	0.0402	1.17	52.1	2.07	0.0045
5810	0.0367	1.20	49.9	2.24	0.0045
6360	0.0335	1.24	47.6	2.27	0.0041
6950	0.0307	1.27	45.2	2.37	0.0040
7610	0.0280	1.31	42.7	2.48	0.0038
8320	0.0256	1.35	40.3	2.45	0.0034
9100	0.0234	1.38	37.9	2.39	0.0031
9960	0.0214	1.42	35.4	2.46	0.0029
10900	0.0196	1.45	33.0	2.43	0.0026
11900	0.0179	1.49	30.7	2.31	0.0023
13000	0.0164	1.52	28.4	2.27	0.0021
14300	0.0149	1.56	26.1	2.36	0.0018
15600	0.0137	1.59	23.9	2.11	0.0016
17100	0.0125	1.62	21.9	2.09	0.0014
18700	0.0114	1.65	19.8	2.01	0.0013
20400	0.0105	1.68	17.9	1.92	0.0011
22300	0.0096	1.70	16.0	1.88	0.0010
24400	0.0087	1.73	14.2	1.80	0.0009
26700	0.0080	1.76	12.5	1.77	0.0008
29300	0.0073	1.78	10.8	1.68	0.0006
32000	0.0067	1.80	9.2	1.56	0.0006
35000	0.0061	1.82	7.8	1.43	0.0005
38300	0.0056	1.84	6.4	1.37	0.0004
41900	0.0051	1.86	5.2	1.24	0.0003
45800	0.0047	1.88	4.1	1.13	0.0003
50100	0.0043	1.90	2.9	1.18	0.0003
54800	0.0039	1.91	1.7	1.18	0.0003
59500	0.0036	1.94	0.0	1.70	0.0004

Mercury Injection Capillary Pressure (Bulk Volume)



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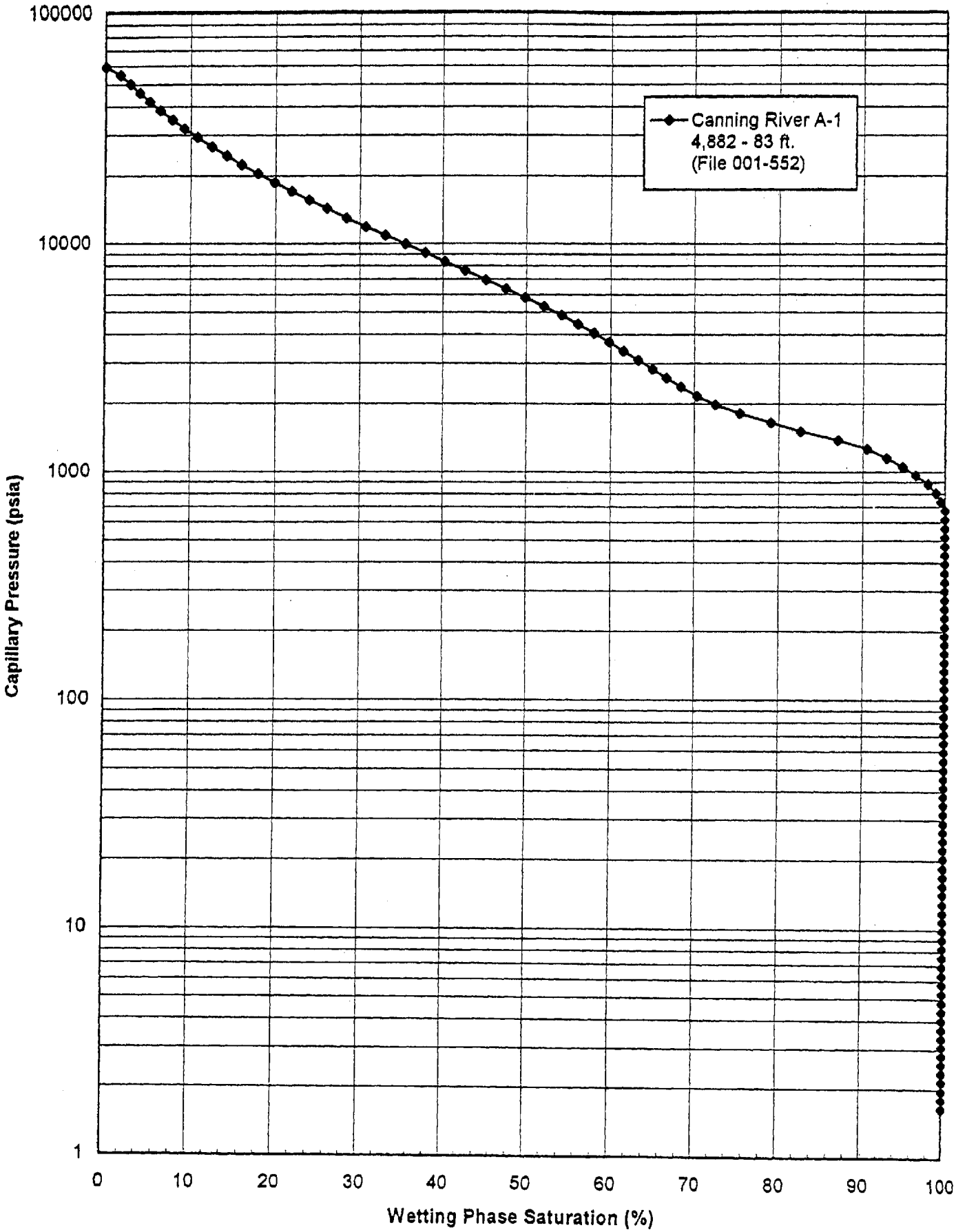
Mercury Injection Capillary Pressure (Pore Volume)



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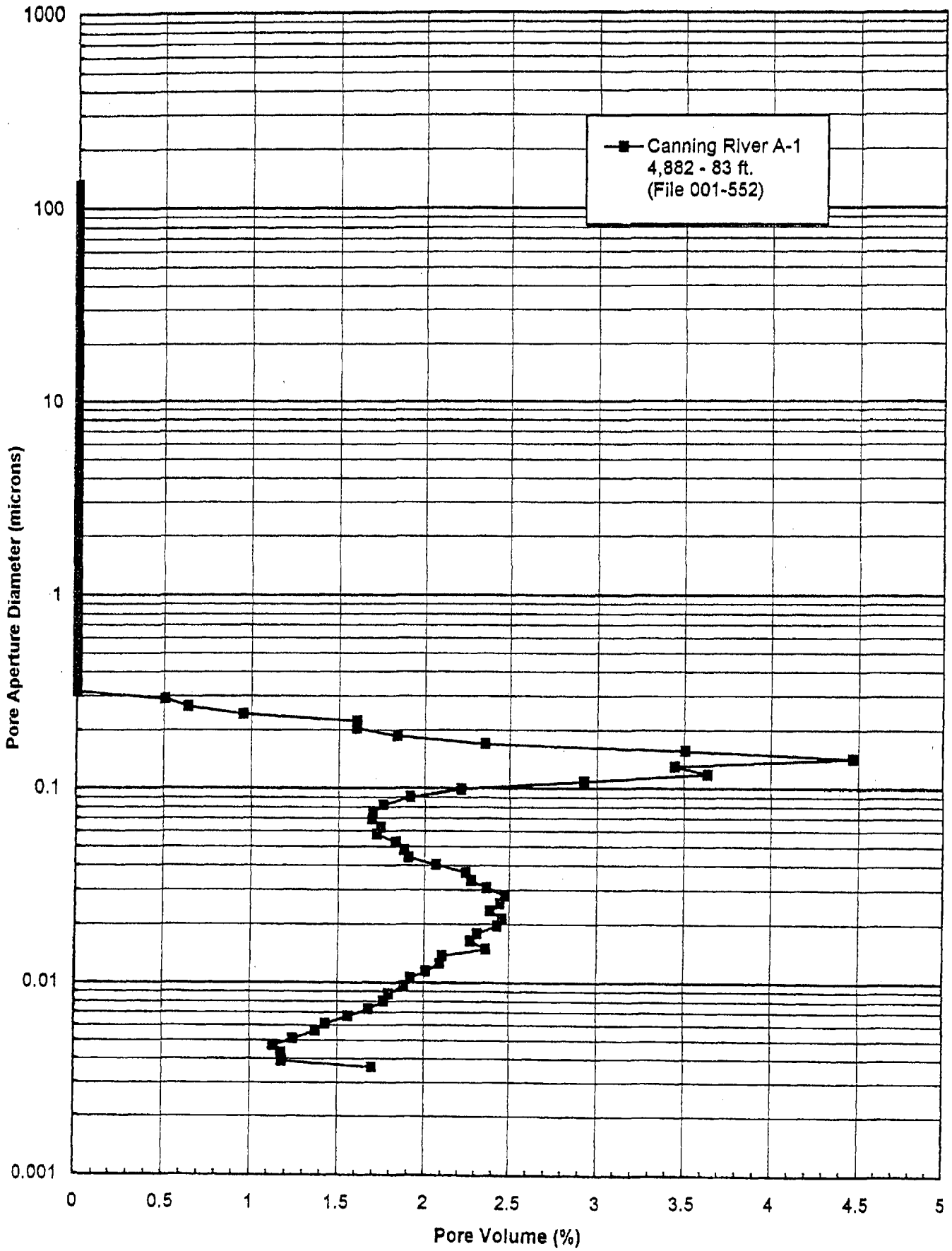
Pore Aperture Size Distribution



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Mercury Injection Capillary Pressure

Kavik #3 : 5,325 feet
File 001-551

Sample Information	
Bulk Volume = 2.6829 cc	Porosity = 4.16% (mercury)
Pore Volume = 0.1117 cc	Permeability = 0.0044 md (mercury)
Closure = 0.50%BV @ 563 psia	Median Pore Aperture = 0.0745 microns

Capillary Pressure (psia)	Pore Aperture Diameter (microns)	Cumulative Bulk Vol. (%)	Wetting Phase Saturation (%)	Incremental Wetting Phase Change (%)	Saturation Change per psia
1.64	130	0.01	100.0	0.00	0.0000
1.80	119	0.01	100.0	0.00	0.0000
1.96	109	0.02	100.0	0.00	0.0000
2.15	99.2	0.03	100.0	0.00	0.0000
2.35	90.8	0.04	100.0	0.00	0.0000
2.57	83.0	0.04	100.0	0.00	0.0000
2.81	75.9	0.05	100.0	0.00	0.0000
3.08	69.3	0.06	100.0	0.00	0.0000
3.37	63.3	0.06	100.0	0.00	0.0000
3.68	58.0	0.07	100.0	0.00	0.0000
4.03	52.9	0.08	100.0	0.00	0.0000
4.41	48.4	0.08	100.0	0.00	0.0000
4.82	44.3	0.09	100.0	0.00	0.0000
5.27	40.5	0.10	100.0	0.00	0.0000
5.77	37.0	0.10	100.0	0.00	0.0000
6.31	33.8	0.11	100.0	0.00	0.0000
6.90	30.9	0.11	100.0	0.00	0.0000
7.55	28.3	0.12	100.0	0.00	0.0000
8.26	25.8	0.13	100.0	0.00	0.0000
9.04	23.6	0.13	100.0	0.00	0.0000
9.89	21.6	0.14	100.0	0.00	0.0000
10.8	19.8	0.15	100.0	0.00	0.0000
11.8	18.1	0.15	100.0	0.00	0.0000
12.9	16.5	0.16	100.0	0.00	0.0000
14.2	15.0	0.17	100.0	0.00	0.0000
15.5	13.8	0.17	100.0	0.00	0.0000
16.9	12.6	0.18	100.0	0.00	0.0000
18.5	11.5	0.19	100.0	0.00	0.0000
20.3	10.5	0.20	100.0	0.00	0.0000
22.2	9.61	0.21	100.0	0.00	0.0000
24.3	8.78	0.22	100.0	0.00	0.0000
26.6	8.02	0.23	100.0	0.00	0.0000
29.0	7.36	0.25	100.0	0.00	0.0000
31.8	6.71	0.26	100.0	0.00	0.0000
34.8	6.13	0.28	100.0	0.00	0.0000
38.0	5.61	0.30	100.0	0.00	0.0000

Mercury Injection Capillary Pressure

Kavik #3 : 5,325 feet
File 001-551

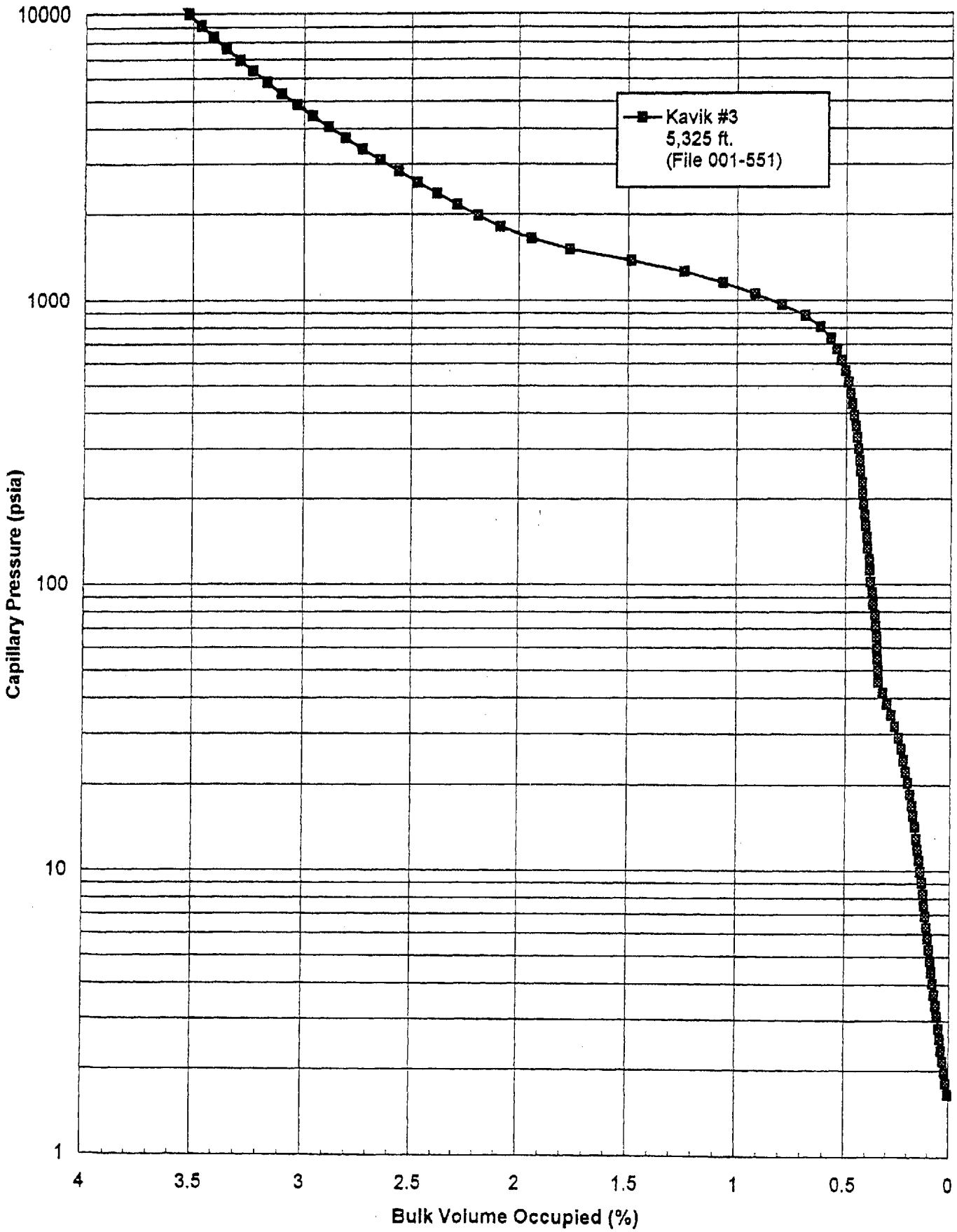
Capillary Pressure (psia)	Pore Aperture Diameter (microns)	Cumulative Bulk Vol. (%)	Wetting Phase Saturation (%)	Incremental Wetting Phase Change (%)	Saturation Change per psia
41.6	5.13	0.32	100.0	0.00	0.0000
45.5	4.69	0.34	100.0	0.00	0.0000
49.8	4.28	0.35	100.0	0.00	0.0000
54.5	3.91	0.35	100.0	0.00	0.0000
59.6	3.58	0.35	100.0	0.00	0.0000
65.2	3.27	0.35	100.0	0.00	0.0000
71.3	2.99	0.36	100.0	0.00	0.0000
78.0	2.73	0.36	100.0	0.00	0.0000
85.3	2.50	0.37	100.0	0.00	0.0000
93.4	2.28	0.37	100.0	0.00	0.0000
102	2.09	0.38	100.0	0.00	0.0000
112	1.90	0.38	100.0	0.00	0.0000
122	1.75	0.39	100.0	0.00	0.0000
134	1.59	0.39	100.0	0.00	0.0000
146	1.46	0.40	100.0	0.00	0.0000
160	1.33	0.41	100.0	0.00	0.0000
175	1.22	0.41	100.0	0.00	0.0000
191	1.12	0.41	100.0	0.00	0.0000
209	1.02	0.42	100.0	0.00	0.0000
229	0.932	0.42	100.0	0.00	0.0000
251	0.850	0.43	100.0	0.00	0.0000
274	0.779	0.43	100.0	0.00	0.0000
300	0.711	0.44	100.0	0.00	0.0000
328	0.650	0.45	100.0	0.00	0.0000
359	0.594	0.45	100.0	0.00	0.0000
393	0.543	0.46	100.0	0.00	0.0000
430	0.496	0.47	100.0	0.00	0.0000
470	0.454	0.48	100.0	0.00	0.0000
514	0.415	0.49	100.0	0.00	0.0000
563	0.379	0.50	100.0	0.00	0.0000
615	0.347	0.52	99.5	0.46	0.0088
673	0.317	0.54	99.0	0.53	0.0091
736	0.290	0.57	98.3	0.69	0.0110
806	0.265	0.62	97.1	1.19	0.0170
881	0.242	0.69	95.5	1.65	0.0221
964	0.221	0.80	92.9	2.60	0.0314
1050	0.203	0.92	89.9	2.94	0.0342
1150	0.186	1.06	86.4	3.51	0.0351
1260	0.169	1.24	82.1	4.33	0.0393
1380	0.155	1.49	76.2	5.90	0.0492
1510	0.141	1.77	69.4	6.74	0.0518
1650	0.129	1.94	65.2	4.27	0.0305

Mercury Injection Capillary Pressure

Kavik #3 : 5,325 feet
File 001-551

Capillary Pressure (psia)	Pore Aperture Diameter (microns)	Cumulative Bulk Vol. (%)	Wetting Phase Saturation (%)	Incremental Wetting Phase Change (%)	Saturation Change per psia
1810	0.1179	2.08	61.8	3.40	0.0213
1980	0.1077	2.19	59.3	2.50	0.0147
2160	0.0988	2.28	56.9	2.34	0.0130
2370	0.0900	2.38	54.6	2.37	0.0113
2590	0.0824	2.47	52.4	2.17	0.0099
2830	0.0754	2.56	50.3	2.12	0.0089
3100	0.0688	2.65	48.2	2.11	0.0078
3390	0.0629	2.73	46.2	1.97	0.0068
3710	0.0575	2.81	44.2	1.94	0.0061
4060	0.0525	2.89	42.4	1.86	0.0053
4440	0.0480	2.96	40.6	1.81	0.0048
4850	0.0440	3.03	38.9	1.67	0.0041
5310	0.0402	3.10	37.2	1.66	0.0036
5810	0.0367	3.16	35.6	1.60	0.0032
6360	0.0335	3.23	34.1	1.55	0.0028
6950	0.0307	3.29	32.6	1.45	0.0025
7610	0.0280	3.35	31.2	1.45	0.0022
8320	0.0256	3.41	29.8	1.40	0.0020
9100	0.0234	3.46	28.4	1.35	0.0017
9960	0.0214	3.52	27.1	1.36	0.0016
10900	0.0196	3.57	25.7	1.34	0.0014
11900	0.0179	3.63	24.4	1.29	0.0013
13000	0.0164	3.68	23.1	1.30	0.0012
14300	0.0149	3.74	21.8	1.34	0.0010
15600	0.0137	3.79	20.5	1.25	0.0010
17100	0.0125	3.84	19.3	1.27	0.0008
18700	0.0114	3.89	18.0	1.31	0.0008
20400	0.0105	3.95	16.7	1.26	0.0007
22300	0.0096	4.00	15.4	1.32	0.0007
24400	0.0087	4.05	14.1	1.27	0.0006
26700	0.0080	4.11	12.8	1.31	0.0006
29300	0.0073	4.16	11.4	1.36	0.0005
32000	0.0067	4.22	10.1	1.31	0.0005
35000	0.0061	4.27	8.8	1.31	0.0004
38300	0.0056	4.33	7.5	1.35	0.0004
41900	0.0051	4.38	6.2	1.27	0.0004
45800	0.0047	4.43	5.0	1.23	0.0003
50100	0.0043	4.48	3.7	1.25	0.0003
54800	0.0039	4.54	2.5	1.25	0.0003
59500	0.0036	4.64	0.0	2.48	0.0005

Mercury Injection Capillary Pressure (Bulk Volume)



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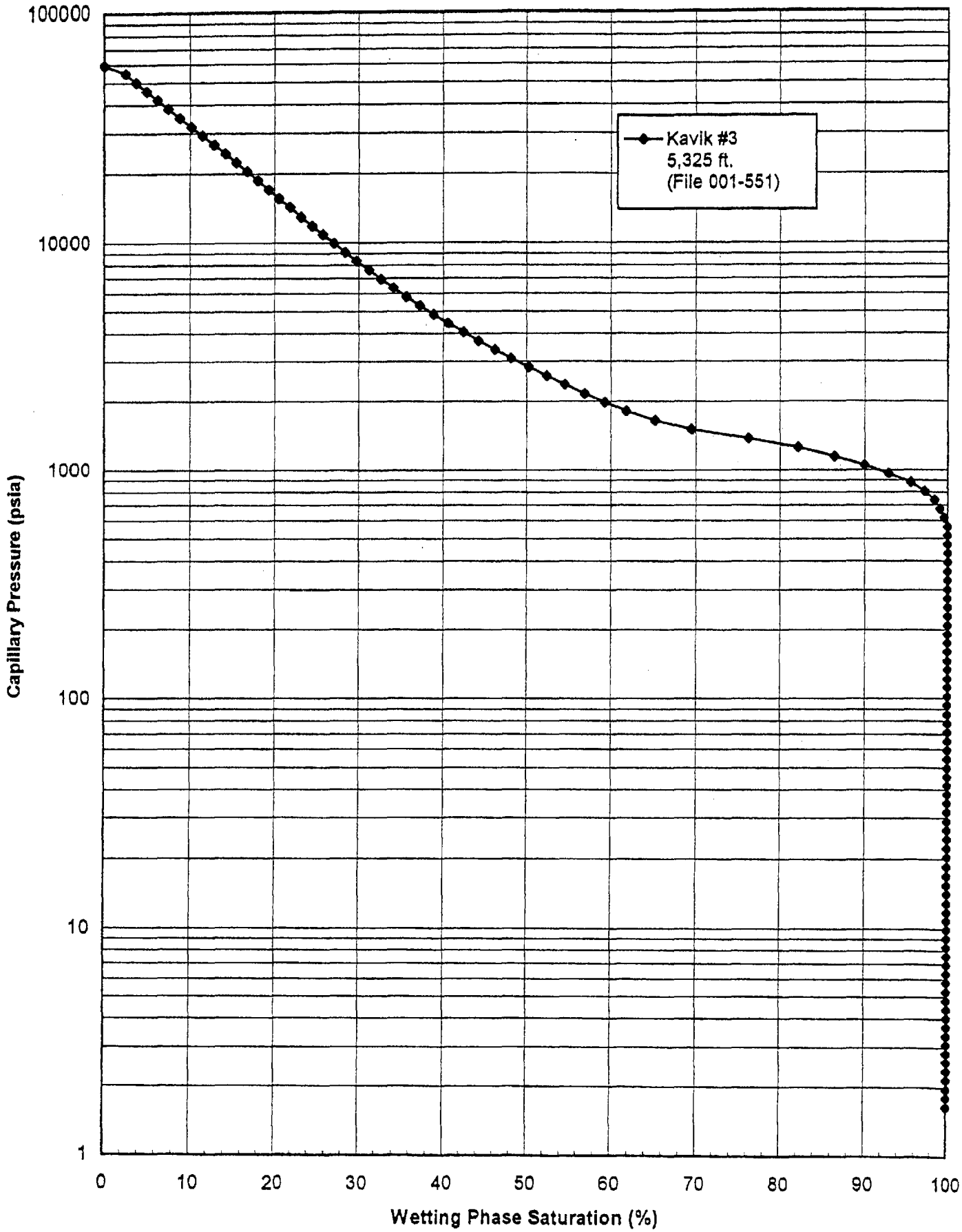
Mercury Injection Capillary Pressure (Pore Volume)



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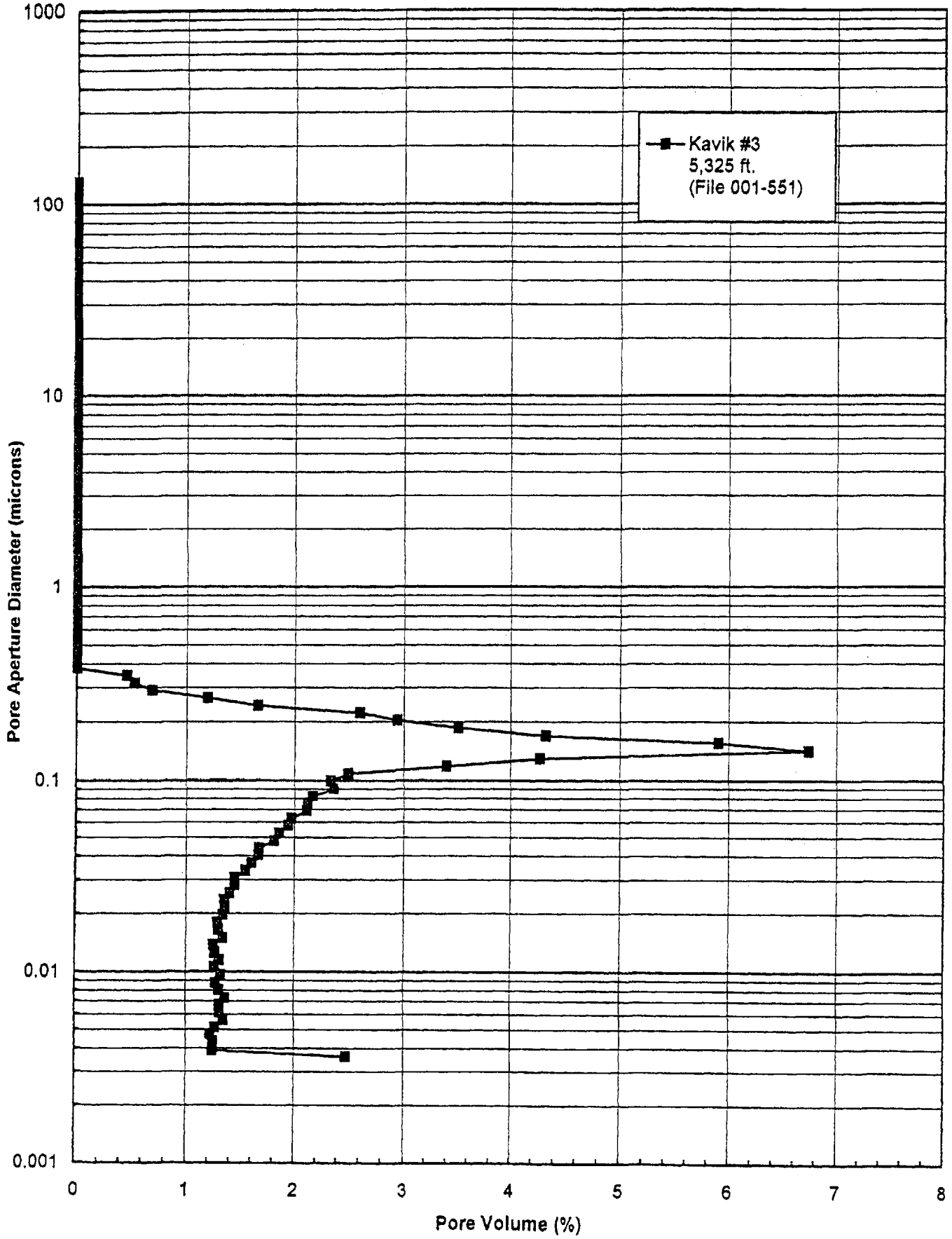
Pore Aperture Size Distribution



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Mercury Injection Capillary Pressure

Kavik #3 : 5,410 feet
File 001-545

Sample Information	
Bulk Volume = 2.0558 cc	Porosity = 2.01% (mercury)
Pore Volume = 0.0412 cc	Permeability = N/A
Closure = 0.53%BV @ 393 psia	Median Pore Aperture = 0.0145 microns

Capillary Pressure (psia)	Pore Aperture Diameter (microns)	Cumulative Bulk Vol. (%)	Wetting Phase Saturation (%)	Incremental Wetting Phase Change (%)	Saturation Change per psia
1.64	130	0.02	100.0	0.00	0.0000
1.80	119	0.03	100.0	0.00	0.0000
1.96	109	0.04	100.0	0.00	0.0000
2.15	99.2	0.05	100.0	0.00	0.0000
2.35	90.8	0.06	100.0	0.00	0.0000
2.57	83.0	0.07	100.0	0.00	0.0000
2.81	75.9	0.08	100.0	0.00	0.0000
3.08	69.3	0.09	100.0	0.00	0.0000
3.37	63.3	0.09	100.0	0.00	0.0000
3.68	58.0	0.10	100.0	0.00	0.0000
4.03	52.9	0.11	100.0	0.00	0.0000
4.41	48.4	0.12	100.0	0.00	0.0000
4.82	44.3	0.13	100.0	0.00	0.0000
5.27	40.5	0.13	100.0	0.00	0.0000
5.77	37.0	0.14	100.0	0.00	0.0000
6.31	33.8	0.15	100.0	0.00	0.0000
6.90	30.9	0.16	100.0	0.00	0.0000
7.55	28.3	0.17	100.0	0.00	0.0000
8.26	25.8	0.17	100.0	0.00	0.0000
9.04	23.6	0.18	100.0	0.00	0.0000
9.89	21.6	0.19	100.0	0.00	0.0000
10.8	19.8	0.20	100.0	0.00	0.0000
11.8	18.1	0.21	100.0	0.00	0.0000
12.9	16.5	0.21	100.0	0.00	0.0000
14.2	15.0	0.22	100.0	0.00	0.0000
15.5	13.8	0.23	100.0	0.00	0.0000
16.9	12.6	0.25	100.0	0.00	0.0000
18.5	11.5	0.26	100.0	0.00	0.0000
20.3	10.5	0.27	100.0	0.00	0.0000
22.2	9.61	0.28	100.0	0.00	0.0000
24.3	8.78	0.30	100.0	0.00	0.0000
26.6	8.02	0.31	100.0	0.00	0.0000
29.0	7.36	0.33	100.0	0.00	0.0000
31.8	6.71	0.35	100.0	0.00	0.0000
34.8	6.13	0.37	100.0	0.00	0.0000
38.0	5.61	0.39	100.0	0.00	0.0000

Mercury Injection Capillary Pressure

Kavik #3 : 5,410 feet
File 001-545

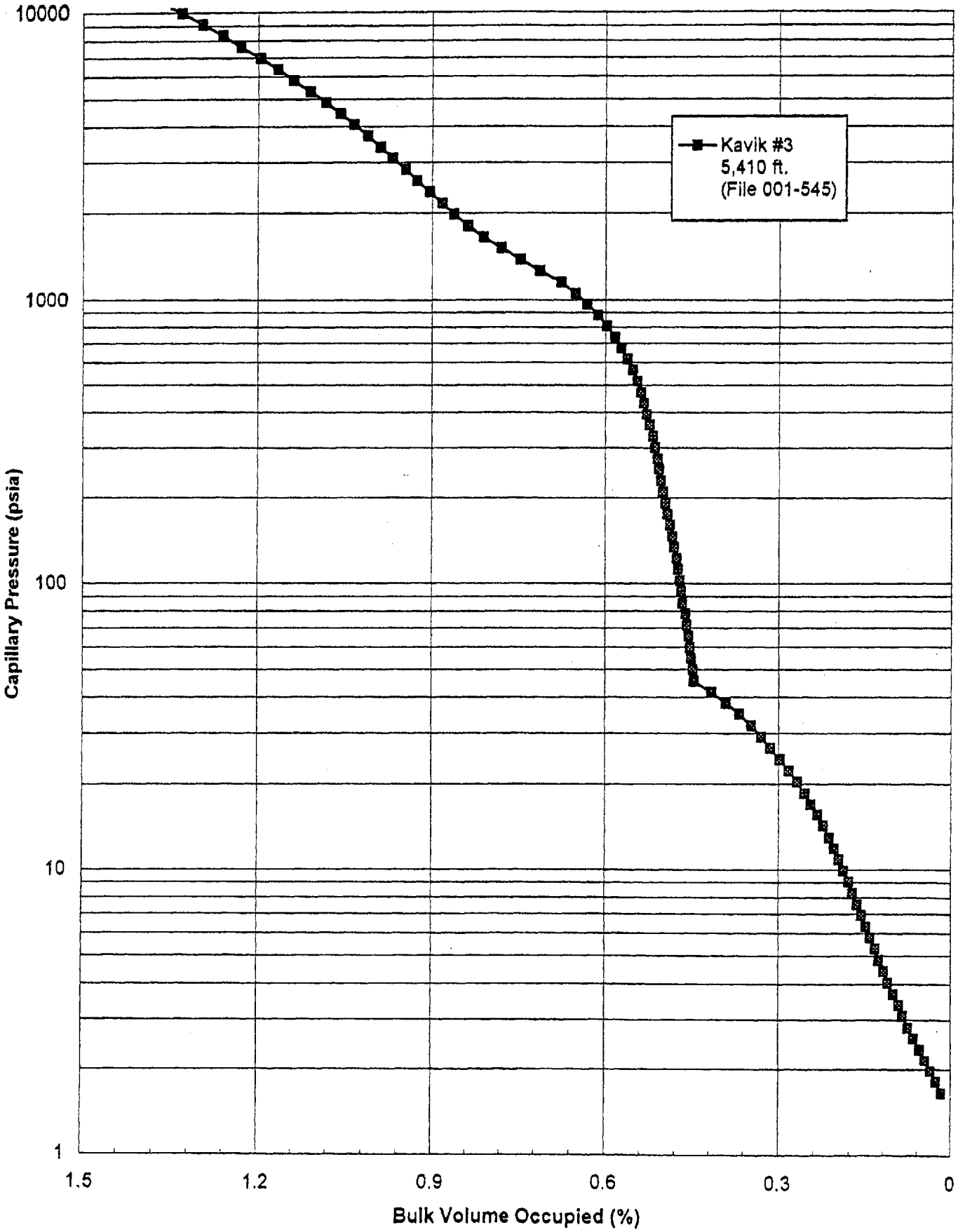
Capillary Pressure (psia)	Pore Aperture Diameter (microns)	Cumulative Bulk Vol. (%)	Wetting Phase Saturation (%)	Incremental Wetting Phase Change (%)	Saturation Change per psia
41.6	5.13	0.42	100.0	0.00	0.0000
45.5	4.69	0.45	100.0	0.00	0.0000
49.8	4.28	0.45	100.0	0.00	0.0000
54.5	3.91	0.45	100.0	0.00	0.0000
59.6	3.58	0.45	100.0	0.00	0.0000
65.2	3.27	0.46	100.0	0.00	0.0000
71.3	2.99	0.46	100.0	0.00	0.0000
78.0	2.73	0.46	100.0	0.00	0.0000
85.3	2.50	0.47	100.0	0.00	0.0000
93.4	2.28	0.47	100.0	0.00	0.0000
102	2.09	0.47	100.0	0.00	0.0000
112	1.90	0.47	100.0	0.00	0.0000
122	1.75	0.48	100.0	0.00	0.0000
134	1.59	0.48	100.0	0.00	0.0000
146	1.46	0.48	100.0	0.00	0.0000
160	1.33	0.49	100.0	0.00	0.0000
175	1.22	0.49	100.0	0.00	0.0000
191	1.12	0.50	100.0	0.00	0.0000
209	1.02	0.50	100.0	0.00	0.0000
229	0.932	0.50	100.0	0.00	0.0000
251	0.850	0.51	100.0	0.00	0.0000
274	0.779	0.51	100.0	0.00	0.0000
300	0.711	0.51	100.0	0.00	0.0000
328	0.650	0.52	100.0	0.00	0.0000
359	0.594	0.52	100.0	0.00	0.0000
393	0.543	0.53	100.0	0.00	0.0000
430	0.496	0.53	99.8	0.24	0.0064
470	0.454	0.54	99.5	0.28	0.0071
514	0.415	0.55	99.2	0.32	0.0072
563	0.379	0.55	98.8	0.38	0.0077
615	0.347	0.56	98.3	0.47	0.0090
673	0.317	0.57	97.8	0.53	0.0092
736	0.290	0.58	97.2	0.54	0.0085
806	0.265	0.60	96.5	0.73	0.0105
881	0.242	0.61	95.7	0.80	0.0107
964	0.221	0.63	94.8	0.93	0.0112
1050	0.203	0.65	93.8	0.98	0.0114
1150	0.186	0.68	92.6	1.20	0.0120
1260	0.169	0.71	90.7	1.88	0.0171
1380	0.155	0.75	89.0	1.68	0.0140
1510	0.141	0.78	87.4	1.66	0.0127
1650	0.129	0.81	85.8	1.61	0.0115

Mercury Injection Capillary Pressure

Kavik #3 : 5,410 feet
File 001-545

Capillary Pressure (psia)	Pore Aperture Diameter (microns)	Cumulative Bulk Vol. (%)	Wetting Phase Saturation (%)	Incremental Wetting Phase Change (%)	Saturation Change per psia
1810	0.1179	0.84	84.4	1.40	0.0087
1980	0.1077	0.86	83.2	1.18	0.0069
2160	0.0988	0.88	82.2	1.05	0.0059
2370	0.0900	0.90	81.0	1.10	0.0053
2590	0.0824	0.93	79.9	1.10	0.0050
2830	0.0754	0.95	78.9	1.03	0.0043
3100	0.0688	0.97	77.8	1.14	0.0042
3390	0.0629	0.99	76.7	1.05	0.0036
3710	0.0575	1.01	75.6	1.11	0.0035
4060	0.0525	1.04	74.4	1.20	0.0034
4440	0.0480	1.06	73.3	1.14	0.0030
4850	0.0440	1.08	72.0	1.24	0.0030
5310	0.0402	1.11	70.7	1.38	0.0030
5810	0.0367	1.14	69.2	1.45	0.0029
6360	0.0335	1.17	67.8	1.41	0.0026
6950	0.0307	1.20	66.3	1.52	0.0026
7610	0.0280	1.23	64.6	1.68	0.0026
8320	0.0256	1.26	63.0	1.61	0.0023
9100	0.0234	1.30	61.2	1.76	0.0023
9960	0.0214	1.33	59.4	1.79	0.0021
10900	0.0196	1.37	57.5	1.94	0.0021
11900	0.0179	1.41	55.4	2.12	0.0021
13000	0.0164	1.45	53.2	2.15	0.0020
14300	0.0149	1.50	50.8	2.35	0.0018
15600	0.0137	1.55	48.5	2.35	0.0018
17100	0.0125	1.60	46.0	2.53	0.0017
18700	0.0114	1.65	43.4	2.54	0.0016
20400	0.0105	1.70	40.7	2.68	0.0016
22300	0.0096	1.76	37.9	2.88	0.0015
24400	0.0087	1.82	34.9	2.97	0.0014
26700	0.0080	1.88	31.9	2.97	0.0013
29300	0.0073	1.94	28.8	3.11	0.0012
32000	0.0067	2.00	25.7	3.08	0.0011
35000	0.0061	2.06	22.5	3.21	0.0011
38300	0.0056	2.13	19.2	3.36	0.0010
41900	0.0051	2.19	15.9	3.25	0.0009
45800	0.0047	2.26	12.7	3.18	0.0008
50100	0.0043	2.32	9.5	3.22	0.0007
54800	0.0039	2.38	6.5	3.00	0.0006
59500	0.0036	2.51	0.0	6.51	0.0014

Mercury Injection Capillary Pressure (Bulk Volume)



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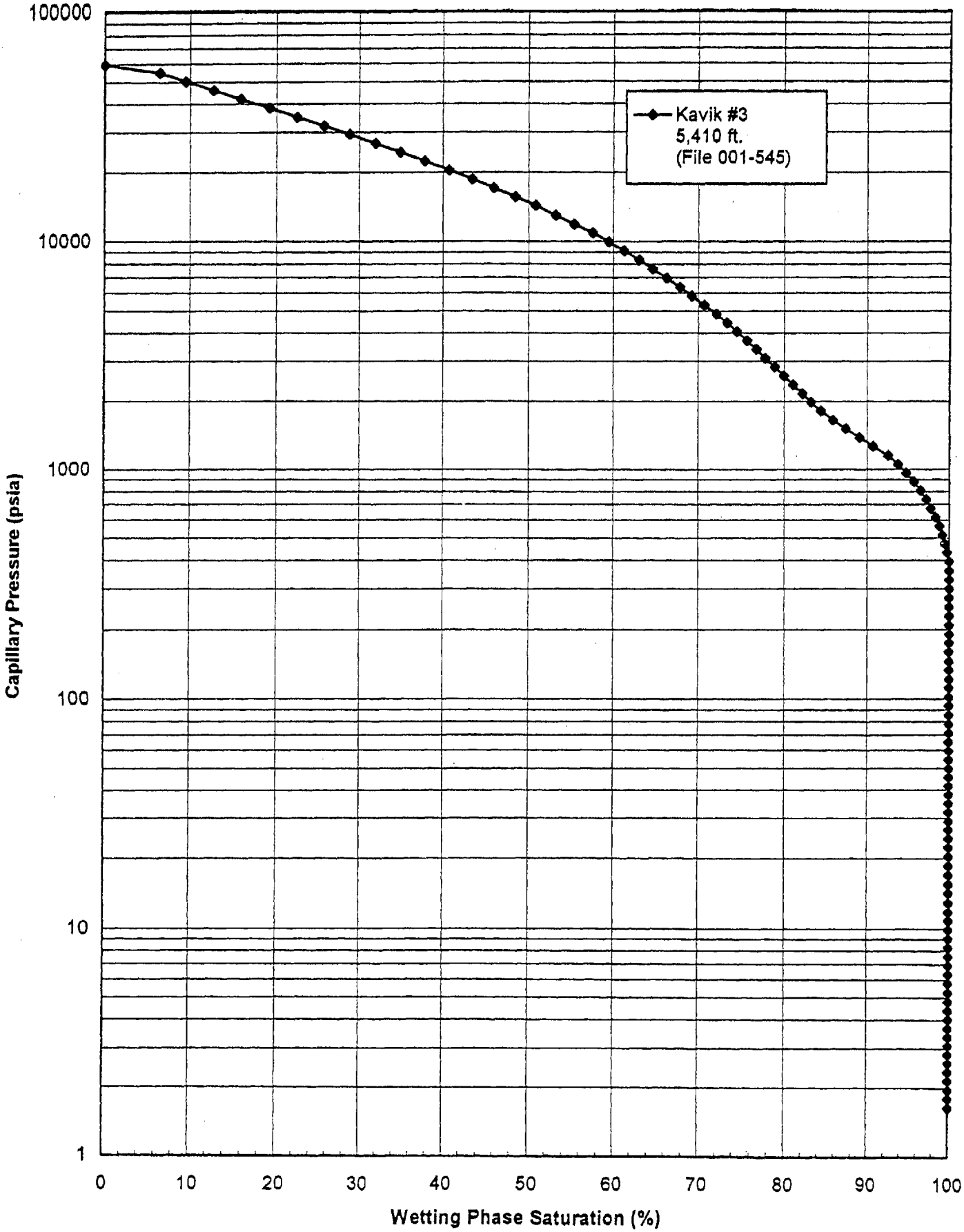
Mercury Injection Capillary Pressure (Pore Volume)



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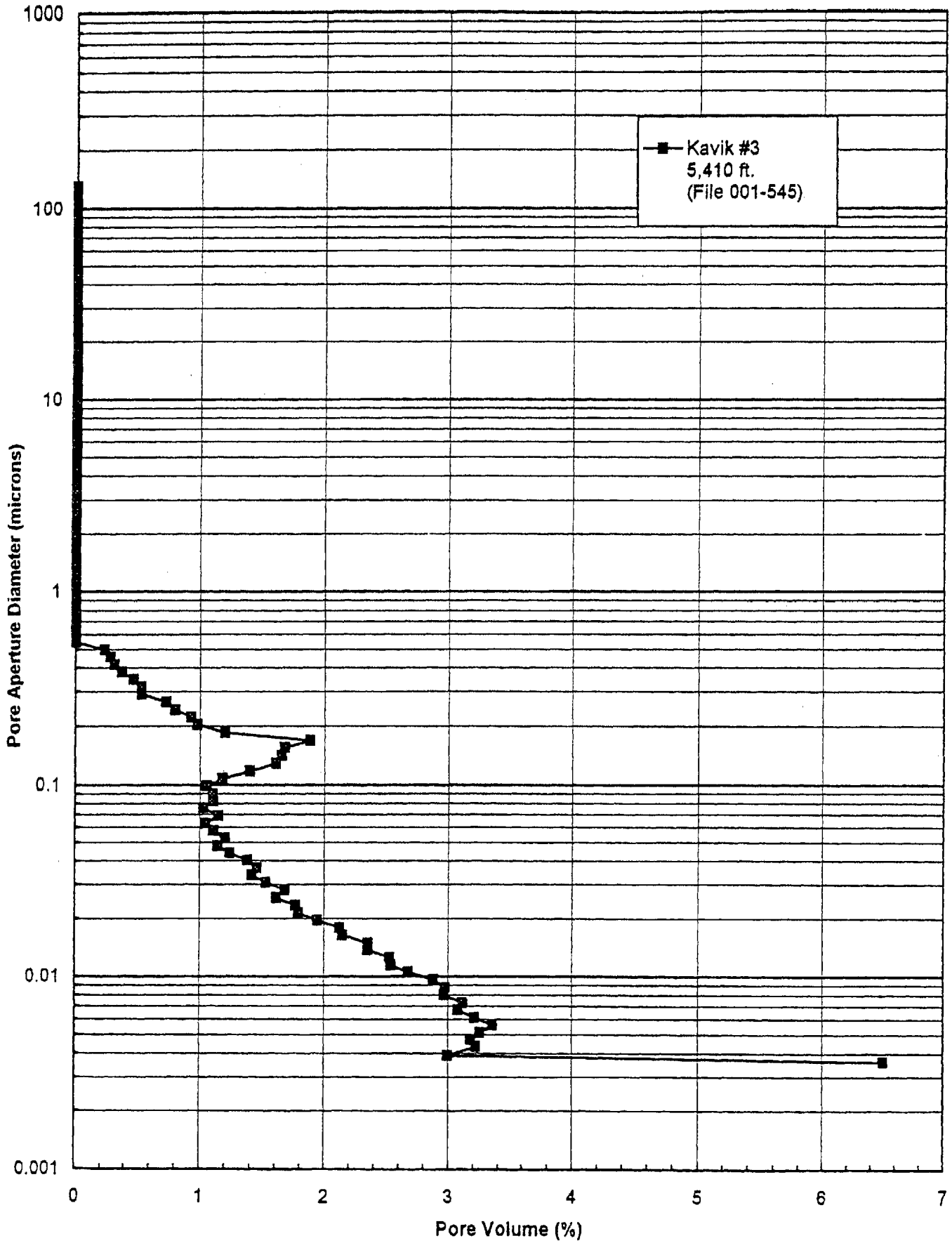
Pore Aperture Size Distribution



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Mercury Injection Capillary Pressure

Kavik #3 : 5,420 feet
File 001-546

Sample Information	
Bulk Volume = 4.5267 cc	Porosity = 3.26% (mercury)
Pore Volume = 0.1477 cc	Permeability = 0.037 md (mercury)
Closure = 0.40% BV @ 393 psia	Median Pore Aperture = 0.0459 microns

Capillary Pressure (psia)	Pore Aperture Diameter (microns)	Cumulative Bulk Vol. (%)	0 Wetting Phase Saturation (%)	Incremental Wetting Phase Change (%)	Saturation Change per psia
1.64	130	0.01	100.0	0.00	0.0000
1.80	119	0.02	100.0	0.00	0.0000
1.96	109	0.03	100.0	0.00	0.0000
2.15	99.2	0.03	100.0	0.00	0.0000
2.35	90.8	0.04	100.0	0.00	0.0000
2.57	83.0	0.05	100.0	0.00	0.0000
2.81	75.9	0.06	100.0	0.00	0.0000
3.08	69.3	0.06	100.0	0.00	0.0000
3.37	63.3	0.07	100.0	0.00	0.0000
3.68	58.0	0.07	100.0	0.00	0.0000
4.03	52.9	0.08	100.0	0.00	0.0000
4.41	48.4	0.09	100.0	0.00	0.0000
4.82	44.3	0.09	100.0	0.00	0.0000
5.27	40.5	0.10	100.0	0.00	0.0000
5.77	37.0	0.10	100.0	0.00	0.0000
6.31	33.8	0.11	100.0	0.00	0.0000
6.90	30.9	0.11	100.0	0.00	0.0000
7.55	28.3	0.12	100.0	0.00	0.0000
8.26	25.8	0.12	100.0	0.00	0.0000
9.04	23.6	0.13	100.0	0.00	0.0000
9.89	21.6	0.13	100.0	0.00	0.0000
10.8	19.8	0.14	100.0	0.00	0.0000
11.8	18.1	0.15	100.0	0.00	0.0000
12.9	16.5	0.15	100.0	0.00	0.0000
14.2	15.0	0.16	100.0	0.00	0.0000
15.5	13.8	0.16	100.0	0.00	0.0000
16.9	12.6	0.17	100.0	0.00	0.0000
18.5	11.5	0.18	100.0	0.00	0.0000
20.3	10.5	0.19	100.0	0.00	0.0000
22.2	9.61	0.20	100.0	0.00	0.0000
24.3	8.78	0.20	100.0	0.00	0.0000
26.6	8.02	0.21	100.0	0.00	0.0000
29.0	7.36	0.22	100.0	0.00	0.0000
31.8	6.71	0.24	100.0	0.00	0.0000
34.8	6.13	0.25	100.0	0.00	0.0000
38.0	5.61	0.26	100.0	0.00	0.0000

Mercury Injection Capillary Pressure

Kavik #3 : 5,420 feet
File 001-546

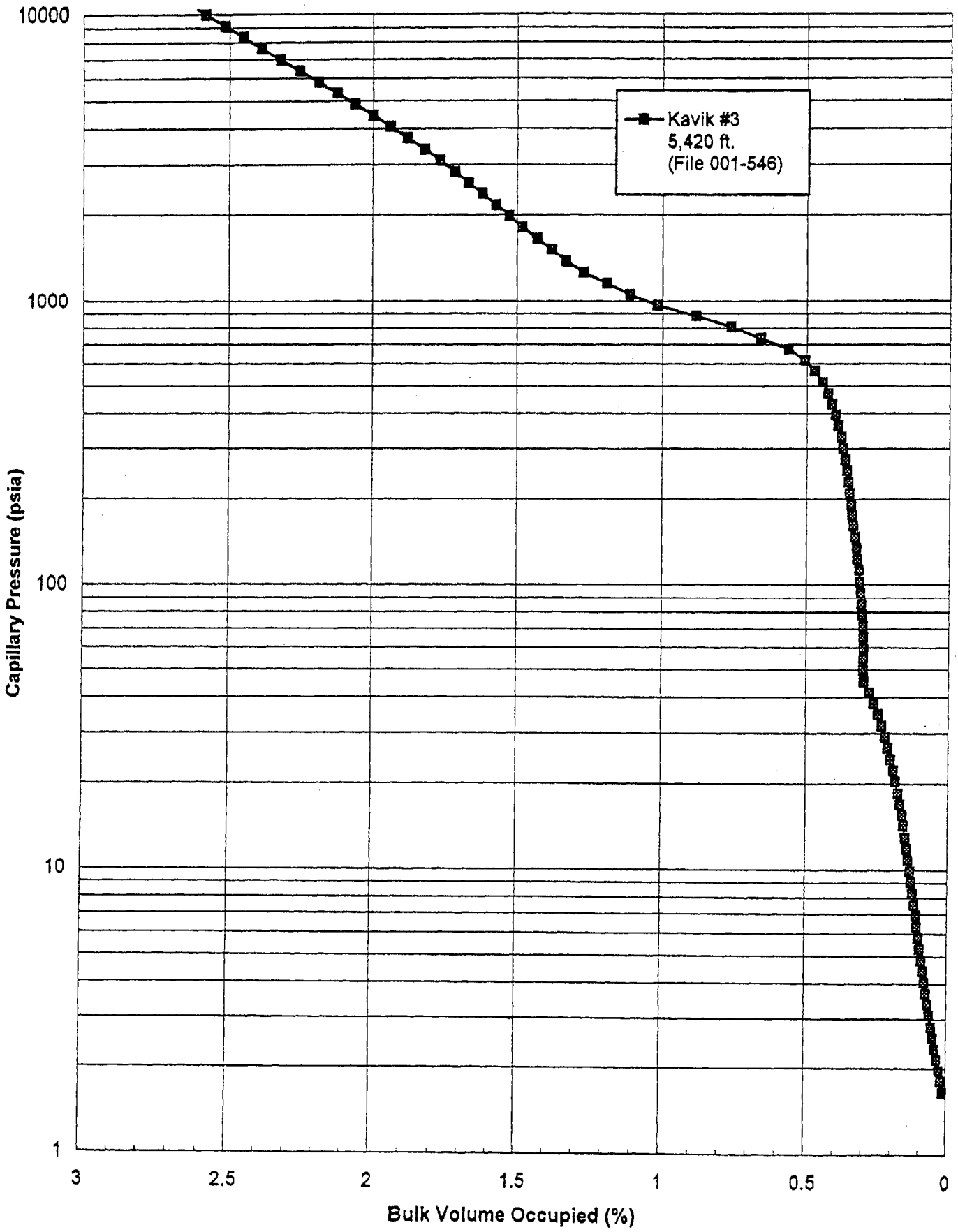
Capillary Pressure (psia)	Pore Aperture Diameter (microns)	Cumulative Bulk Vol. (%)	Wetting Phase Saturation (%)	Incremental Wetting Phase Change (%)	Saturation Change per psia
41.6	5.13	0.28	100.0	0.00	0.0000
45.5	4.69	0.30	100.0	0.00	0.0000
49.8	4.28	0.30	100.0	0.00	0.0000
54.5	3.91	0.30	100.0	0.00	0.0000
59.6	3.58	0.30	100.0	0.00	0.0000
65.2	3.27	0.30	100.0	0.00	0.0000
71.3	2.99	0.30	100.0	0.00	0.0000
78.0	2.73	0.31	100.0	0.00	0.0000
85.3	2.50	0.31	100.0	0.00	0.0000
93.4	2.28	0.31	100.0	0.00	0.0000
102	2.09	0.31	100.0	0.00	0.0000
112	1.90	0.32	100.0	0.00	0.0000
122	1.75	0.32	100.0	0.00	0.0000
134	1.59	0.33	100.0	0.00	0.0000
146	1.46	0.33	100.0	0.00	0.0000
160	1.33	0.34	100.0	0.00	0.0000
175	1.22	0.34	100.0	0.00	0.0000
191	1.12	0.35	100.0	0.00	0.0000
209	1.02	0.35	100.0	0.00	0.0000
229	0.932	0.36	100.0	0.00	0.0000
251	0.850	0.36	100.0	0.00	0.0000
274	0.779	0.37	100.0	0.00	0.0000
300	0.711	0.37	100.0	0.00	0.0000
328	0.650	0.38	100.0	0.00	0.0000
359	0.594	0.39	100.0	0.00	0.0000
393	0.543	0.40	100.0	0.00	0.0000
430	0.496	0.41	99.6	0.37	0.0100
470	0.454	0.43	99.2	0.44	0.0110
514	0.415	0.45	98.6	0.58	0.0133
563	0.379	0.47	97.8	0.84	0.0171
615	0.347	0.51	96.7	1.04	0.0200
673	0.317	0.56	95.0	1.75	0.0301
736	0.290	0.66	92.1	2.93	0.0464
806	0.265	0.76	88.9	3.15	0.0450
881	0.242	0.88	85.2	3.71	0.0495
964	0.221	1.02	81.1	4.09	0.0493
1050	0.203	1.11	78.2	2.85	0.0332
1150	0.186	1.19	75.8	2.41	0.0241
1260	0.169	1.27	73.4	2.48	0.0225
1380	0.155	1.33	71.5	1.82	0.0152
1510	0.141	1.38	69.9	1.59	0.0122
1650	0.129	1.43	68.4	1.53	0.0109

Mercury Injection Capillary Pressure

Kavik #3 : 5,420 feet
File 001-546

Capillary Pressure (psia)	Pore Aperture Diameter (microns)	Cumulative Bulk Vol. (%)	Wetting Phase Saturation (%)	Incremental Wetting Phase Change (%)	Saturation Change per psia
1810	0.1179	1.48	66.9	1.55	0.0097
1980	0.1077	1.53	65.4	1.43	0.0084
2160	0.0988	1.57	64.0	1.40	0.0078
2370	0.0900	1.62	62.5	1.51	0.0072
2590	0.0824	1.67	61.0	1.49	0.0068
2830	0.0754	1.72	59.6	1.48	0.0062
3100	0.0688	1.77	58.0	1.60	0.0059
3390	0.0629	1.83	56.3	1.66	0.0057
3710	0.0575	1.88	54.6	1.75	0.0055
4060	0.0525	1.94	52.8	1.79	0.0051
4440	0.0480	2.00	51.0	1.78	0.0047
4850	0.0440	2.06	49.1	1.89	0.0046
5310	0.0402	2.12	47.2	1.93	0.0042
5810	0.0367	2.19	45.2	1.97	0.0039
6360	0.0335	2.25	43.2	2.03	0.0037
6950	0.0307	2.32	41.1	2.02	0.0034
7610	0.0280	2.39	39.1	2.03	0.0031
8320	0.0256	2.45	37.2	1.96	0.0028
9100	0.0234	2.51	35.2	1.96	0.0025
9960	0.0214	2.58	33.2	2.00	0.0023
10900	0.0196	2.64	31.3	1.92	0.0020
11900	0.0179	2.70	29.4	1.86	0.0019
13000	0.0164	2.76	27.6	1.84	0.0017
14300	0.0149	2.83	25.6	1.94	0.0015
15600	0.0137	2.88	23.9	1.78	0.0014
17100	0.0125	2.94	22.1	1.79	0.0012
18700	0.0114	3.00	20.3	1.74	0.0011
20400	0.0105	3.06	18.6	1.74	0.0010
22300	0.0096	3.11	16.9	1.74	0.0009
24400	0.0087	3.17	15.1	1.76	0.0008
26700	0.0080	3.22	13.4	1.65	0.0007
29300	0.0073	3.28	11.7	1.70	0.0007
32000	0.0067	3.33	10.2	1.56	0.0006
35000	0.0061	3.38	8.7	1.52	0.0005
38300	0.0056	3.43	7.2	1.47	0.0004
41900	0.0051	3.47	5.8	1.40	0.0004
45800	0.0047	3.52	4.4	1.35	0.0003
50100	0.0043	3.56	3.2	1.24	0.0003
54800	0.0039	3.60	2.1	1.13	0.0002
59500	0.0036	3.66	0.0	2.07	0.0004

Mercury Injection Capillary Pressure (Bulk Volume)



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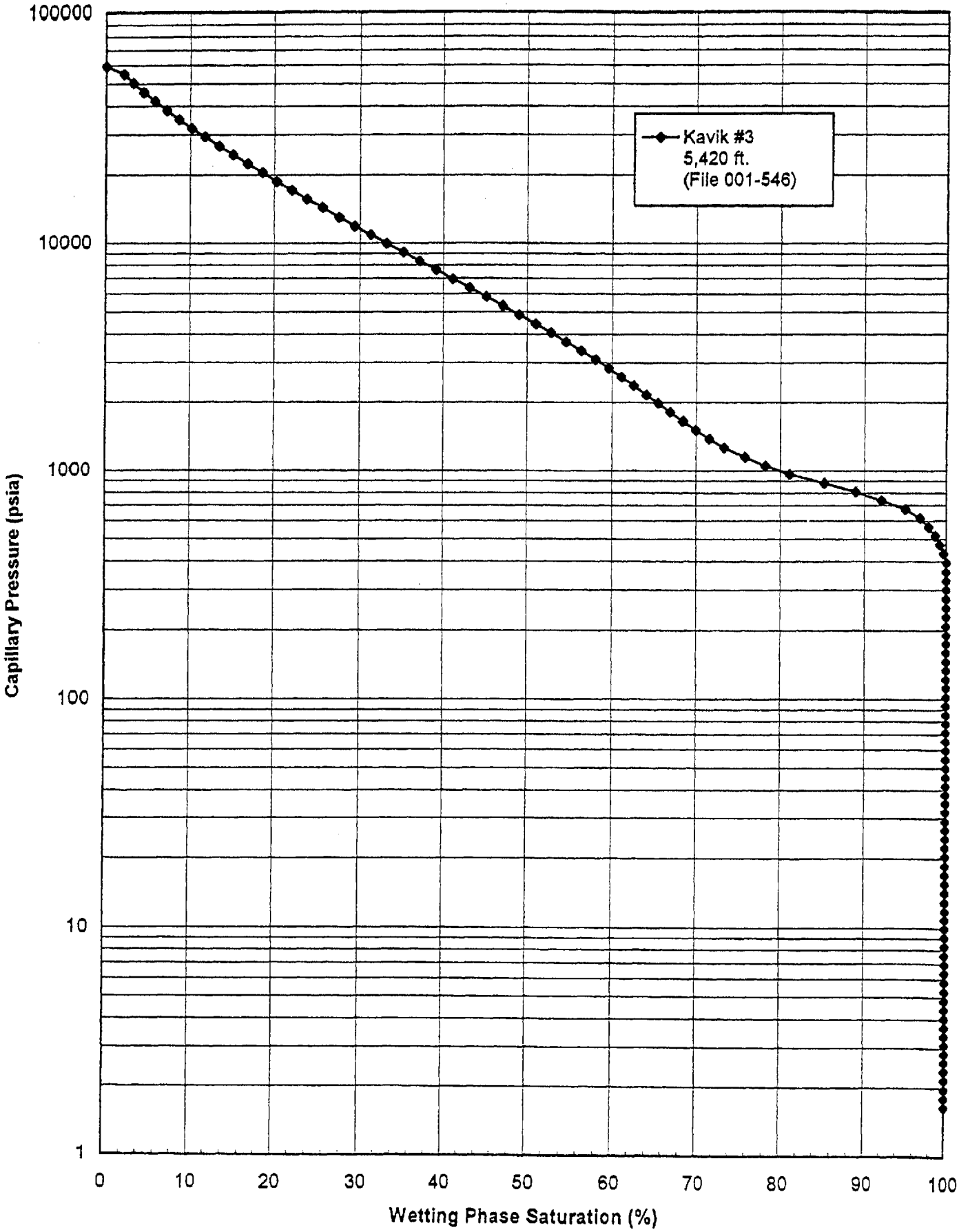
Mercury Injection Capillary Pressure (Pore Volume)



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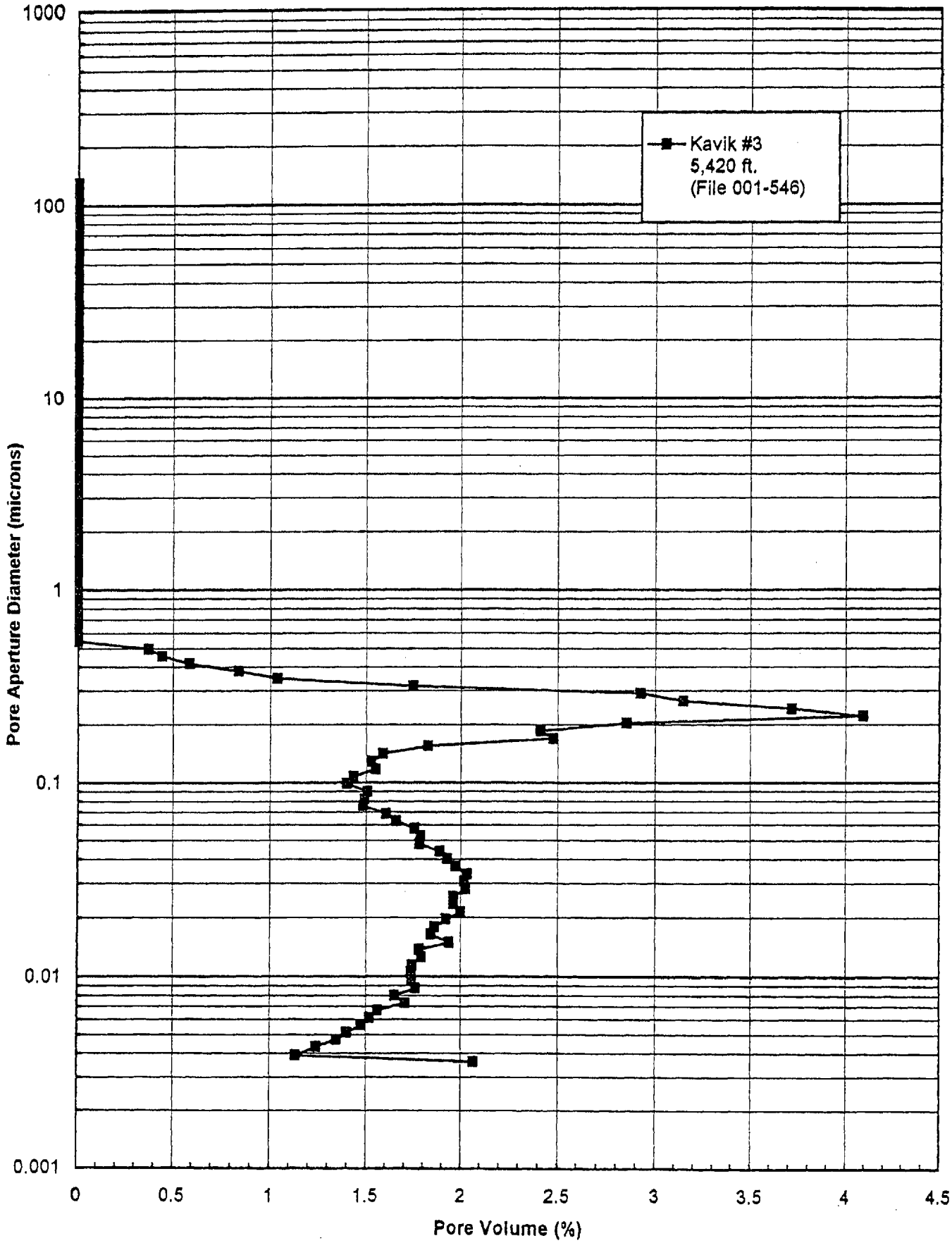
Pore Aperture Size Distribution



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Mercury Injection Capillary Pressure

Kavik #3 : 5,425 feet
File 001-547

Sample Information	
Bulk Volume = 5.2163 cc	Porosity = 6.79% (mercury)
Pore Volume = 0.3541 cc	Permeability = 0.0913 md (mercury)
Closure = 0.35% BV @ 175 psia	Median Pore Aperture = 0.3811 microns

Capillary Pressure (psia)	Pore Aperture Diameter (microns)	Cumulative Bulk Vol. (%)	Wetting Phase Saturation (%)	Incremental Wetting Phase Change (%)	Saturation Change per psia
1.64	130	0.00	100.0	0.00	0.0000
1.80	119	0.00	100.0	0.00	0.0000
1.96	109	0.02	100.0	0.00	0.0000
2.15	99.2	0.02	100.0	0.00	0.0000
2.35	90.8	0.02	100.0	0.00	0.0000
2.57	83.0	0.05	100.0	0.00	0.0000
2.81	75.9	0.05	100.0	0.00	0.0000
3.08	69.3	0.05	100.0	0.00	0.0000
3.37	63.3	0.05	100.0	0.00	0.0000
3.68	58.0	0.07	100.0	0.00	0.0000
4.03	52.9	0.07	100.0	0.00	0.0000
4.41	48.4	0.07	100.0	0.00	0.0000
4.82	44.3	0.07	100.0	0.00	0.0000
5.27	40.5	0.07	100.0	0.00	0.0000
5.77	37.0	0.10	100.0	0.00	0.0000
6.31	33.8	0.10	100.0	0.00	0.0000
6.90	30.9	0.10	100.0	0.00	0.0000
7.55	28.3	0.10	100.0	0.00	0.0000
8.26	25.8	0.10	100.0	0.00	0.0000
9.04	23.6	0.12	100.0	0.00	0.0000
9.89	21.6	0.12	100.0	0.00	0.0000
10.8	19.8	0.12	100.0	0.00	0.0000
11.8	18.1	0.12	100.0	0.00	0.0000
12.9	16.5	0.12	100.0	0.00	0.0000
14.2	15.0	0.15	100.0	0.00	0.0000
15.5	13.8	0.15	100.0	0.00	0.0000
16.9	12.6	0.15	100.0	0.00	0.0000
18.5	11.5	0.15	100.0	0.00	0.0000
20.3	10.5	0.17	100.0	0.00	0.0000
22.2	9.61	0.17	100.0	0.00	0.0000
24.3	8.78	0.17	100.0	0.00	0.0000
26.6	8.02	0.20	100.0	0.00	0.0000
29.0	7.36	0.20	100.0	0.00	0.0000
31.8	6.71	0.20	100.0	0.00	0.0000
34.8	6.13	0.22	100.0	0.00	0.0000
38.0	5.61	0.22	100.0	0.00	0.0000

Mercury Injection Capillary Pressure

Kavik #3 : 5,425 feet
File 001-547

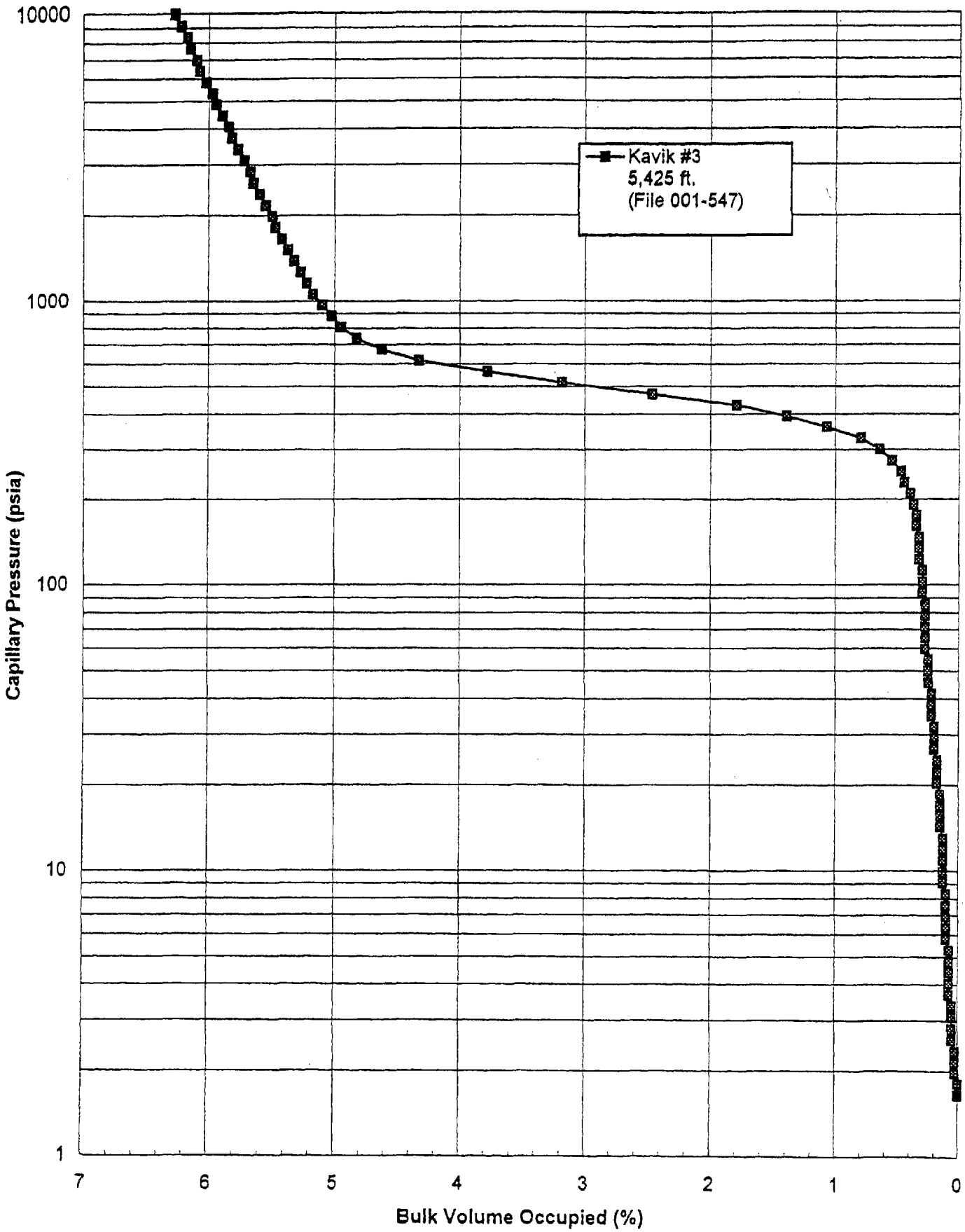
Capillary Pressure (psia)	Pore Aperture Diameter (microns)	Cumulative Bulk Vol. (%)	Wetting Phase Saturation (%)	Incremental Wetting Phase Change (%)	Saturation Change per psia
41.6	5.13	0.22	100.0	0.00	0.0000
45.5	4.69	0.25	100.0	0.00	0.0000
49.8	4.28	0.25	100.0	0.00	0.0000
54.5	3.91	0.25	100.0	0.00	0.0000
59.6	3.58	0.27	100.0	0.00	0.0000
65.2	3.27	0.27	100.0	0.00	0.0000
71.3	2.99	0.27	100.0	0.00	0.0000
78.0	2.73	0.27	100.0	0.00	0.0000
85.3	2.50	0.27	100.0	0.00	0.0000
93.4	2.28	0.30	100.0	0.00	0.0000
102	2.09	0.30	100.0	0.00	0.0000
112	1.90	0.30	100.0	0.00	0.0000
122	1.75	0.32	100.0	0.00	0.0000
134	1.59	0.32	100.0	0.00	0.0000
146	1.46	0.32	100.0	0.00	0.0000
160	1.33	0.35	100.0	0.00	0.0000
175	1.22	0.35	100.0	0.00	0.0000
191	1.12	0.37	99.6	0.37	0.0229
209	1.02	0.40	99.3	0.37	0.0204
229	0.932	0.45	98.5	0.73	0.0366
251	0.850	0.47	98.2	0.37	0.0167
274	0.779	0.55	97.1	1.10	0.0478
300	0.711	0.65	95.6	1.47	0.0564
328	0.650	0.80	93.4	2.20	0.0785
359	0.594	1.07	89.4	4.03	0.1300
393	0.543	1.39	84.6	4.76	0.1401
430	0.496	1.79	78.8	5.86	0.1584
470	0.454	2.46	68.9	9.89	0.2473
514	0.415	3.18	58.2	10.62	0.2414
563	0.379	3.78	49.5	8.79	0.1794
615	0.347	4.33	41.4	8.06	0.1550
673	0.317	4.62	37.0	4.40	0.0758
736	0.290	4.82	34.1	2.93	0.0465
806	0.265	4.95	32.2	1.83	0.0262
881	0.242	5.02	31.1	1.10	0.0147
964	0.221	5.10	30.0	1.10	0.0132
1050	0.203	5.17	28.9	1.10	0.0128
1150	0.186	5.22	28.2	0.73	0.0073
1260	0.169	5.27	27.5	0.73	0.0067
1380	0.155	5.32	26.7	0.73	0.0061
1510	0.141	5.37	26.0	0.73	0.0056
1650	0.129	5.42	25.3	0.73	0.0052

Mercury Injection Capillary Pressure

Kavik #3 : 5,425 feet
File 001-547

Capillary Pressure (psia)	Pore Aperture Diameter (microns)	Cumulative Bulk Vol. (%)	Wetting Phase Saturation (%)	Incremental Wetting Phase Change (%)	Saturation Change per psia
1810	0.1179	5.47	24.5	0.73	0.0046
1980	0.1077	5.50	24.2	0.37	0.0022
2160	0.0988	5.54	23.4	0.73	0.0041
2370	0.0900	5.59	22.7	0.73	0.0035
2590	0.0824	5.64	22.0	0.73	0.0033
2830	0.0754	5.67	21.6	0.37	0.0015
3100	0.0688	5.72	20.9	0.73	0.0027
3390	0.0629	5.77	20.1	0.73	0.0025
3710	0.0575	5.82	19.4	0.73	0.0023
4060	0.0525	5.84	19.0	0.37	0.0010
4440	0.0480	5.89	18.3	0.73	0.0019
4850	0.0440	5.94	17.6	0.73	0.0018
5310	0.0402	5.97	17.2	0.37	0.0008
5810	0.0367	6.02	16.5	0.73	0.0015
6360	0.0335	6.07	15.8	0.73	0.0013
6950	0.0307	6.09	15.4	0.37	0.0006
7610	0.0280	6.14	14.7	0.73	0.0011
8320	0.0256	6.17	14.3	0.37	0.0005
9100	0.0234	6.22	13.6	0.73	0.0009
9960	0.0214	6.27	12.8	0.73	0.0009
10900	0.0196	6.32	12.1	0.73	0.0008
11900	0.0179	6.34	11.7	0.37	0.0004
13000	0.0164	6.39	11.0	0.73	0.0007
14300	0.0149	6.44	10.3	0.73	0.0006
15600	0.0137	6.49	9.5	0.73	0.0006
17100	0.0125	6.54	8.8	0.73	0.0005
18700	0.0114	6.59	8.1	0.73	0.0005
20400	0.0105	6.61	7.7	0.37	0.0002
22300	0.0096	6.66	7.0	0.73	0.0004
24400	0.0087	6.71	6.2	0.73	0.0003
26700	0.0080	6.76	5.5	0.73	0.0003
29300	0.0073	6.81	4.8	0.73	0.0003
32000	0.0067	6.84	4.4	0.37	0.0001
35000	0.0061	6.89	3.7	0.73	0.0002
38300	0.0056	6.94	2.9	0.73	0.0002
41900	0.0051	6.96	2.6	0.37	0.0001
45800	0.0047	7.01	1.8	0.73	0.0002
50100	0.0043	7.04	1.5	0.37	0.0001
54800	0.0039	7.09	0.7	0.73	0.0002
59500	0.0036	7.14	0.0	0.73	0.0002

Mercury Injection Capillary Pressure (Bulk Volume)



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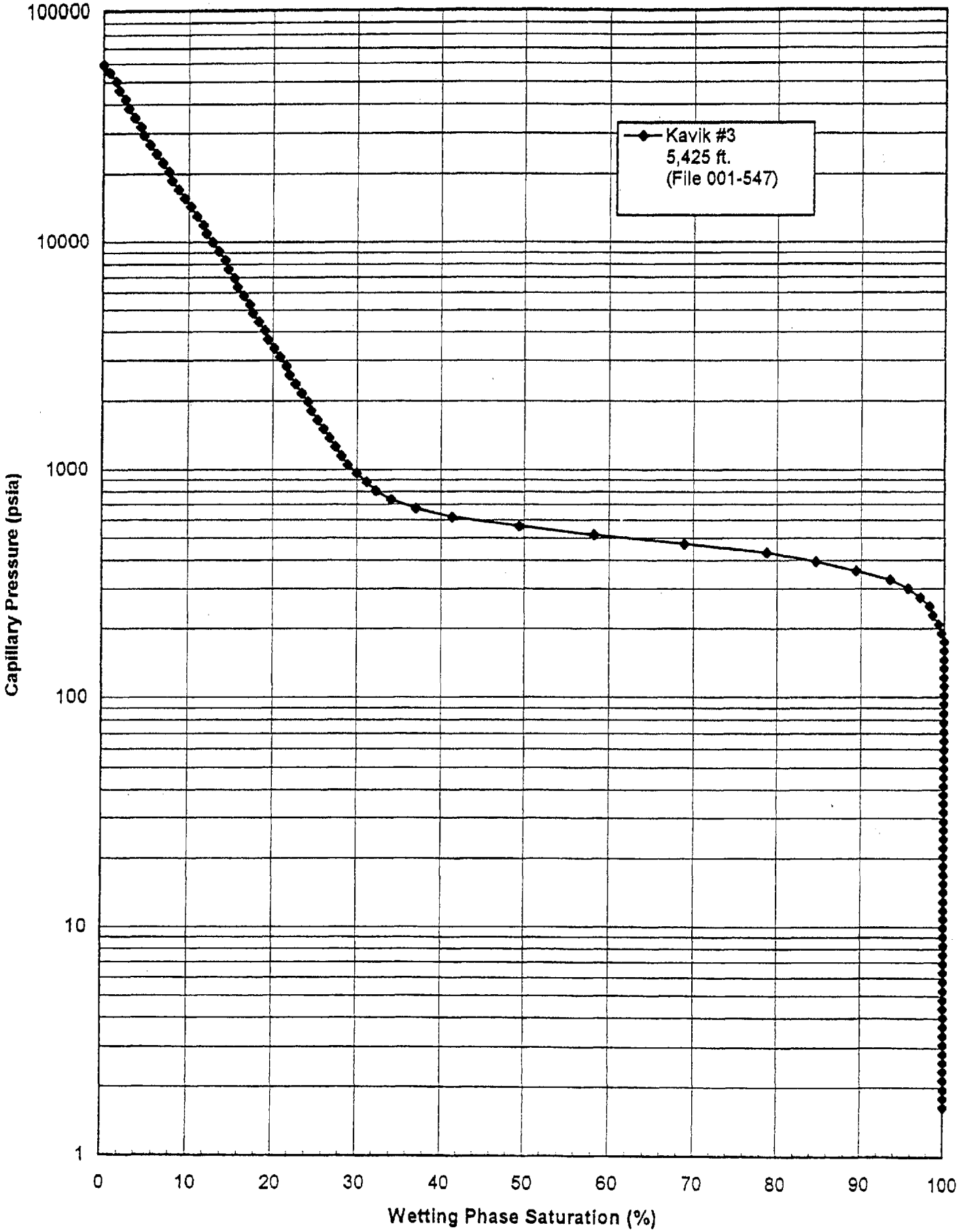
Mercury Injection Capillary Pressure (Pore Volume)



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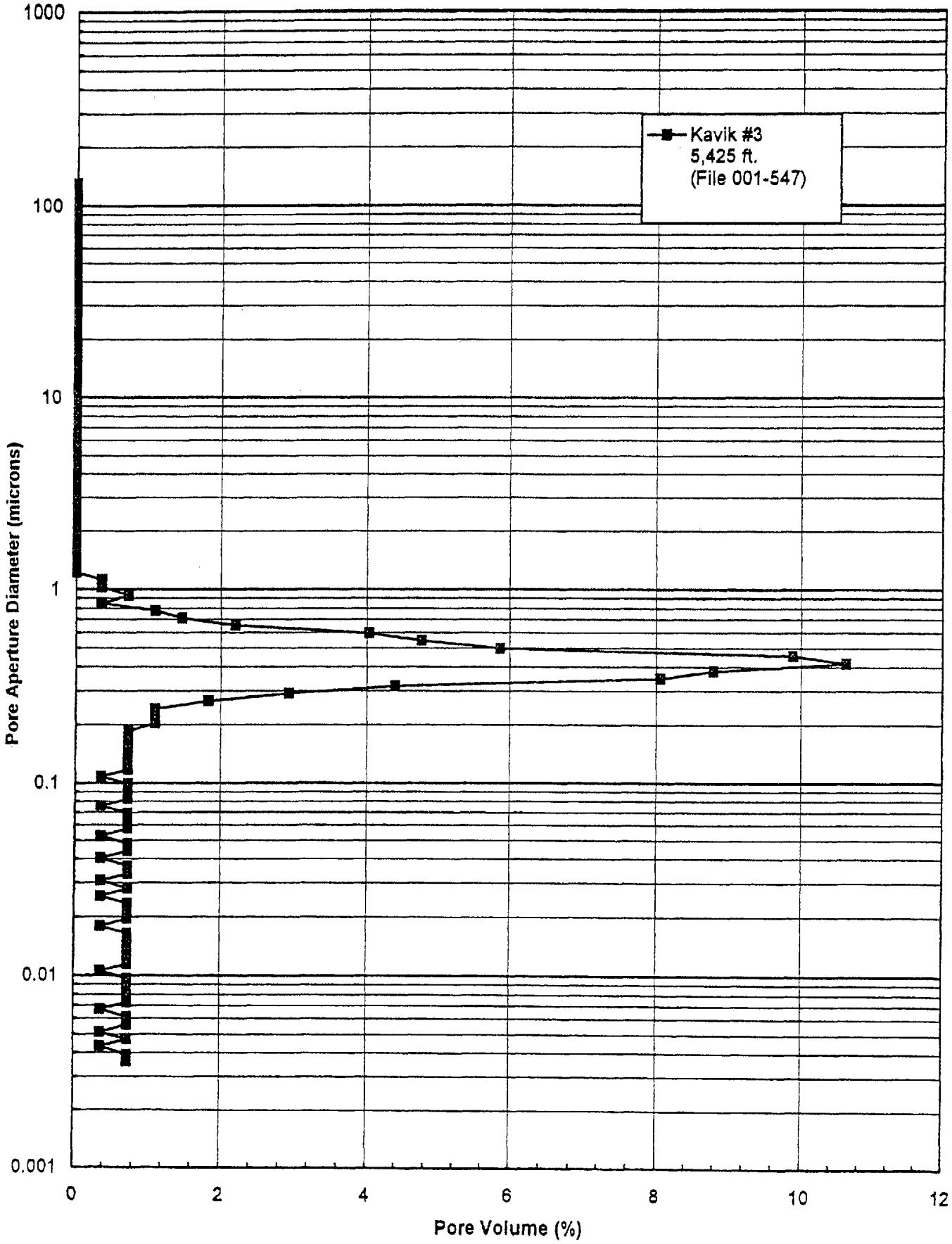
Pore Aperture Size Distribution



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Mercury Injection Capillary Pressure

Kavik #3 : 5,430 ft.
File 001-548

Sample Information	
Bulk Volume = 6.2812 cc	Porosity = 3.90% (mercury)
Pore Volume = 0.2449 cc	Permeability = 0.0086 md (mercury)
Closure = 0.31%BV @ 209 psia	Median Pore Aperture = 0.148 microns

Capillary Pressure (psia)	Pore Aperture Diameter (microns)	Cumulative Bulk Vol. (%)	Wetting Phase Saturation (%)	Incremental Wetting Phase Change (%)	Saturation Change per psia
1.64	130	0.00	100.0	0.00	0.0000
1.80	119	0.00	100.0	0.00	0.0000
1.96	109	0.03	100.0	0.00	0.0000
2.15	99.2	0.03	100.0	0.00	0.0000
2.35	90.8	0.03	100.0	0.00	0.0000
2.57	83.0	0.03	100.0	0.00	0.0000
2.81	75.9	0.05	100.0	0.00	0.0000
3 08	69.3	0.05	100.0	0.00	0.0000
3.37	63.3	0.05	100.0	0.00	0.0000
3.68	58.0	0.05	100.0	0.00	0.0000
4.03	52.9	0.05	100.0	0.00	0.0000
4.41	48.4	0.08	100.0	0.00	0.0000
4.82	44.3	0.08	100.0	0.00	0.0000
5.27	40.5	0.08	100.0	0.00	0.0000
5.77	37.0	0.08	100.0	0.00	0.0000
6.31	33.8	0.08	100.0	0.00	0.0000
6.90	30.9	0.08	100.0	0.00	0.0000
7.55	28.3	0.10	100.0	0.00	0.0000
8.26	25.8	0.10	100.0	0.00	0.0000
9.04	23.6	0.10	100.0	0.00	0.0000
9.89	21.6	0.10	100.0	0.00	0.0000
10.8	19.8	0.10	100.0	0.00	0.0000
11.8	18.1	0.10	100.0	0.00	0.0000
12.9	16.5	0.10	100.0	0.00	0.0000
14.2	15.0	0.13	100.0	0.00	0.0000
15.5	13.8	0.13	100.0	0.00	0.0000
16.9	12.6	0.13	100.0	0.00	0.0000
18.5	11.5	0.13	100.0	0.00	0.0000
20.3	10.5	0.13	100.0	0.00	0.0000
22.2	9.61	0.13	100.0	0.00	0.0000
24.3	8.78	0.15	100.0	0.00	0.0000
26.6	8.02	0.15	100.0	0.00	0.0000
29.0	7.36	0.15	100.0	0.00	0.0000
31.8	6.71	0.15	100.0	0.00	0.0000
34.8	6.13	0.18	100.0	0.00	0.0000
38.0	5.61	0.18	100.0	0.00	0.0000

Mercury Injection Capillary Pressure

Kavik #3 : 5,430 ft.
File 001-548

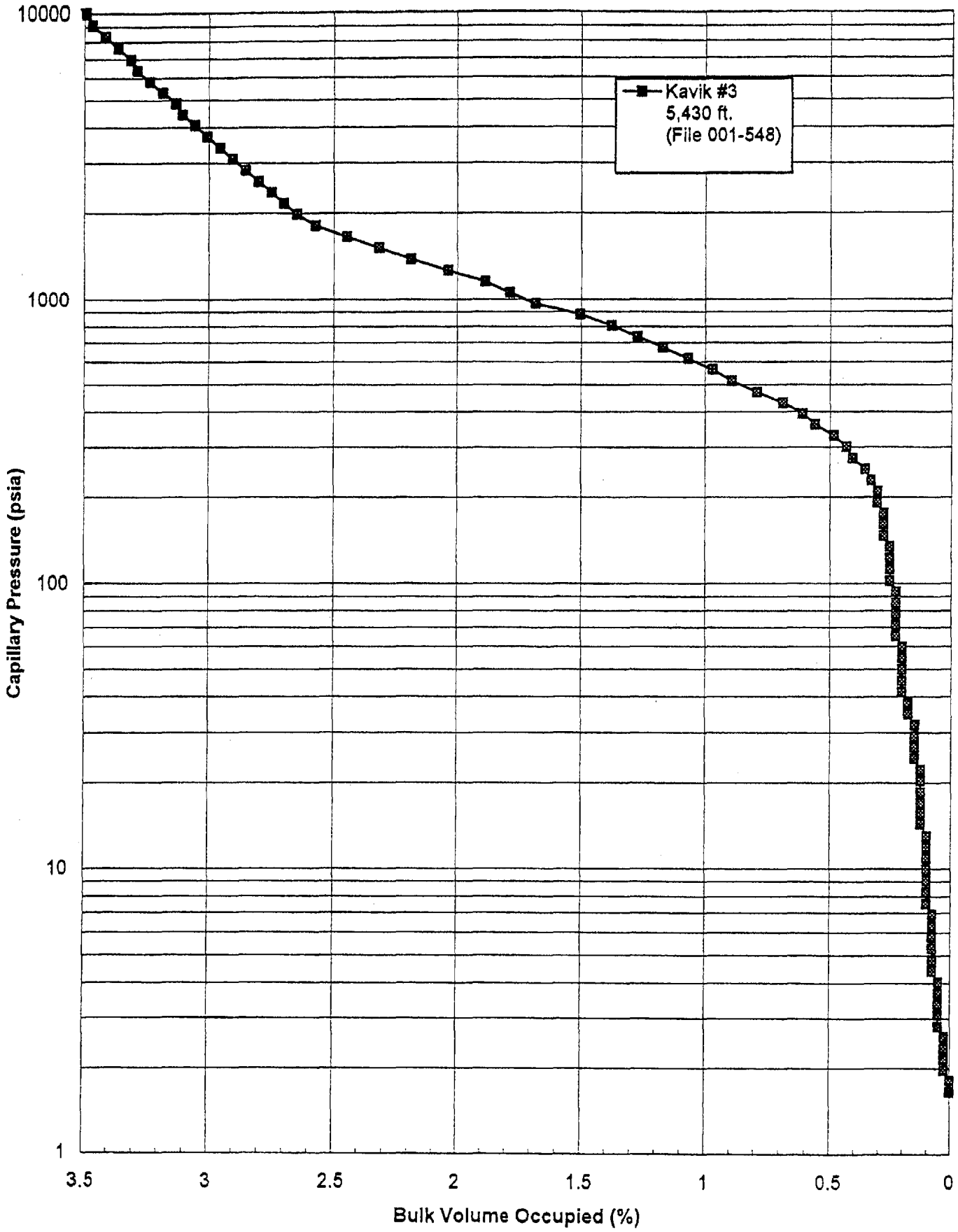
Capillary Pressure (psia)	Pore Aperture Diameter (microns)	Cumulative Bulk Vol. (%)	Wetting Phase Saturation (%)	Incremental Wetting Phase Change (%)	Saturation Change per psia
41.6	5.13	0.20	100.0	0.00	0.0000
45.5	4.69	0.20	100.0	0.00	0.0000
49.8	4.28	0.20	100.0	0.00	0.0000
54.5	3.91	0.20	100.0	0.00	0.0000
59.6	3.58	0.20	100.0	0.00	0.0000
65.2	3.27	0.23	100.0	0.00	0.0000
71.3	2.99	0.23	100.0	0.00	0.0000
78.0	2.73	0.23	100.0	0.00	0.0000
85.3	2.50	0.23	100.0	0.00	0.0000
93.4	2.28	0.23	100.0	0.00	0.0000
102	2.09	0.25	100.0	0.00	0.0000
112	1.90	0.25	100.0	0.00	0.0000
122	1.75	0.25	100.0	0.00	0.0000
134	1.59	0.25	100.0	0.00	0.0000
146	1.46	0.28	100.0	0.00	0.0000
160	1.33	0.28	100.0	0.00	0.0000
175	1.22	0.28	100.0	0.00	0.0000
191	1.12	0.31	100.0	0.00	0.0000
209	1.02	0.31	100.0	0.00	0.0000
229	0.932	0.33	99.3	0.65	0.0327
251	0.850	0.36	98.7	0.65	0.0297
274	0.779	0.41	97.4	1.31	0.0568
300	0.711	0.43	96.7	0.65	0.0251
328	0.650	0.48	95.4	1.31	0.0467
359	0.594	0.56	93.5	1.96	0.0633
393	0.543	0.61	92.2	1.31	0.0384
430	0.496	0.69	90.2	1.96	0.0530
470	0.454	0.79	87.6	2.61	0.0654
514	0.415	0.89	85.0	2.61	0.0594
563	0.379	0.97	83.0	1.96	0.0400
615	0.347	1.07	80.4	2.61	0.0503
673	0.317	1.17	77.8	2.61	0.0451
736	0.290	1.27	75.2	2.61	0.0415
806	0.265	1.38	72.5	2.61	0.0373
881	0.242	1.50	69.3	3.27	0.0436
964	0.221	1.68	64.7	4.58	0.0551
1050	0.203	1.78	62.1	2.61	0.0304
1150	0.186	1.89	59.5	2.61	0.0261
1260	0.169	2.04	55.6	3.92	0.0357
1380	0.155	2.19	51.6	3.92	0.0327
1510	0.141	2.32	48.4	3.27	0.0251
1650	0.129	2.45	45.1	3.27	0.0233

Mercury Injection Capillary Pressure

Kavik #3 : 5,430 ft.
File 001-548

Capillary Pressure (psia)	Pore Aperture Diameter (microns)	Cumulative Bulk Vol. (%)	Wetting Phase Saturation (%)	Incremental Wetting Phase Change (%)	Saturation Change per psia
1810	0.1179	2.57	41.8	3.27	0.0204
1980	0.1077	2.65	39.9	1.96	0.0115
2160	0.0988	2.70	38.6	1.31	0.0073
2370	0.0900	2.75	37.3	1.31	0.0062
2590	0.0824	2.80	35.9	1.31	0.0059
2830	0.0754	2.85	34.6	1.31	0.0054
3100	0.0688	2.90	33.3	1.31	0.0048
3390	0.0629	2.96	32.0	1.31	0.0045
3710	0.0575	3.01	30.7	1.31	0.0041
4060	0.0525	3.06	29.4	1.31	0.0037
4440	0.0480	3.11	28.1	1.31	0.0034
4850	0.0440	3.13	27.5	0.65	0.0016
5310	0.0402	3.18	26.1	1.31	0.0028
5810	0.0367	3.24	24.8	1.31	0.0026
6360	0.0335	3.29	23.5	1.31	0.0024
6950	0.0307	3.31	22.9	0.65	0.0011
7610	0.0280	3.36	21.6	1.31	0.0020
8320	0.0256	3.41	20.3	1.31	0.0018
9100	0.0234	3.47	19.0	1.31	0.0017
9960	0.0214	3.49	18.3	0.65	0.0008
10900	0.0196	3.54	17.0	1.31	0.0014
11900	0.0179	3.57	16.3	0.65	0.0007
13000	0.0164	3.62	15.0	1.31	0.0012
14300	0.0149	3.67	13.7	1.31	0.0010
15600	0.0137	3.69	13.1	0.65	0.0005
17100	0.0125	3.75	11.8	1.31	0.0009
18700	0.0114	3.77	11.1	0.65	0.0004
20400	0.0105	3.82	9.8	1.31	0.0008
22300	0.0096	3.85	9.2	0.65	0.0003
24400	0.0087	3.90	7.8	1.31	0.0006
26700	0.0080	3.92	7.2	0.65	0.0003
29300	0.0073	3.97	5.9	1.31	0.0005
32000	0.0067	4.00	5.2	0.65	0.0002
35000	0.0061	4.03	4.6	0.65	0.0002
38300	0.0056	4.05	3.9	0.65	0.0002
41900	0.0051	4.08	3.3	0.65	0.0002
45800	0.0047	4.10	2.6	0.65	0.0002
50100	0.0043	4.13	2.0	0.65	0.0002
54800	0.0039	4.15	1.3	0.65	0.0001
59500	0.0036	4.20	0.0	1.31	0.0003

Mercury Injection Capillary Pressure (Bulk Volume)



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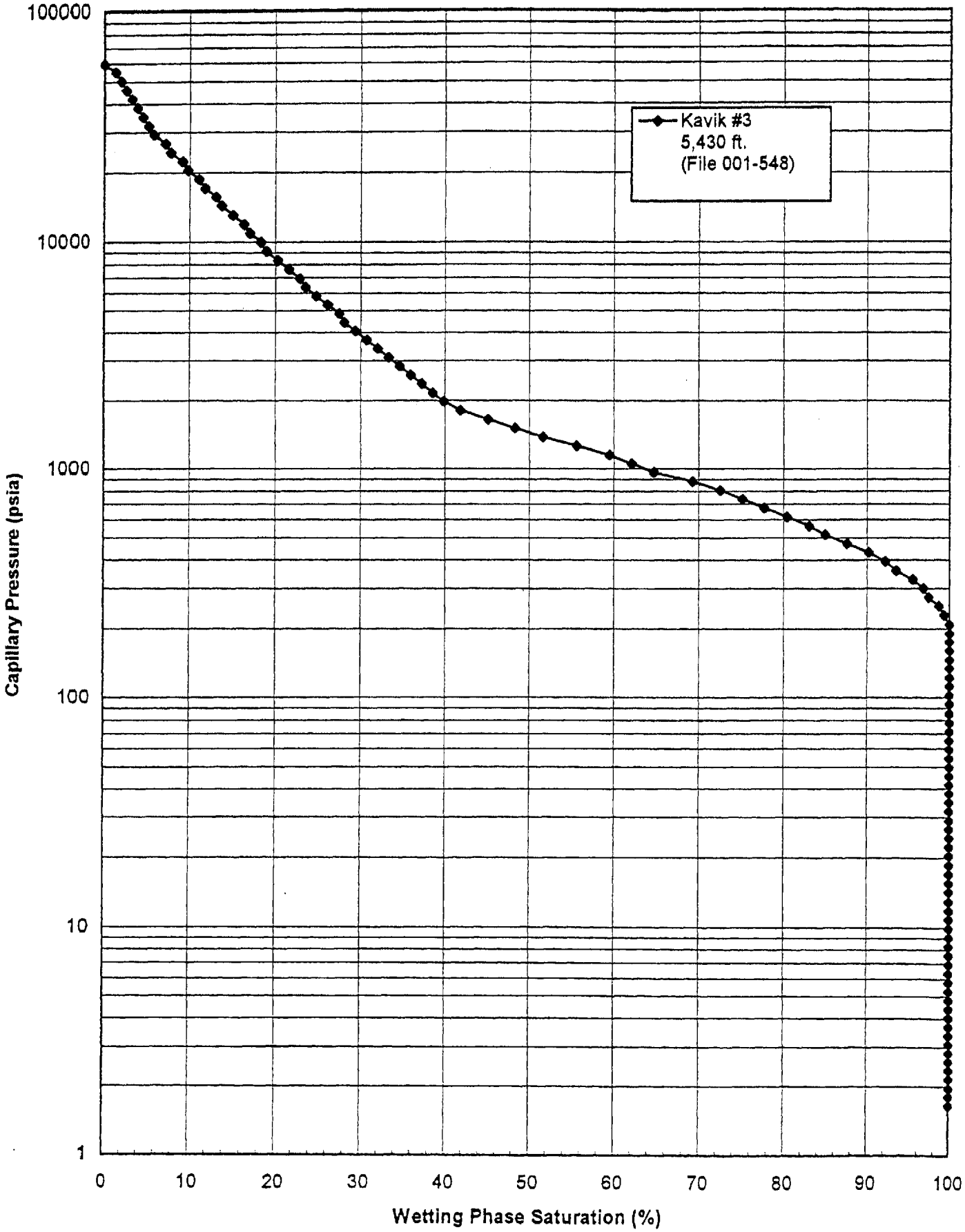
Mercury Injection Capillary Pressure (Pore Volume)



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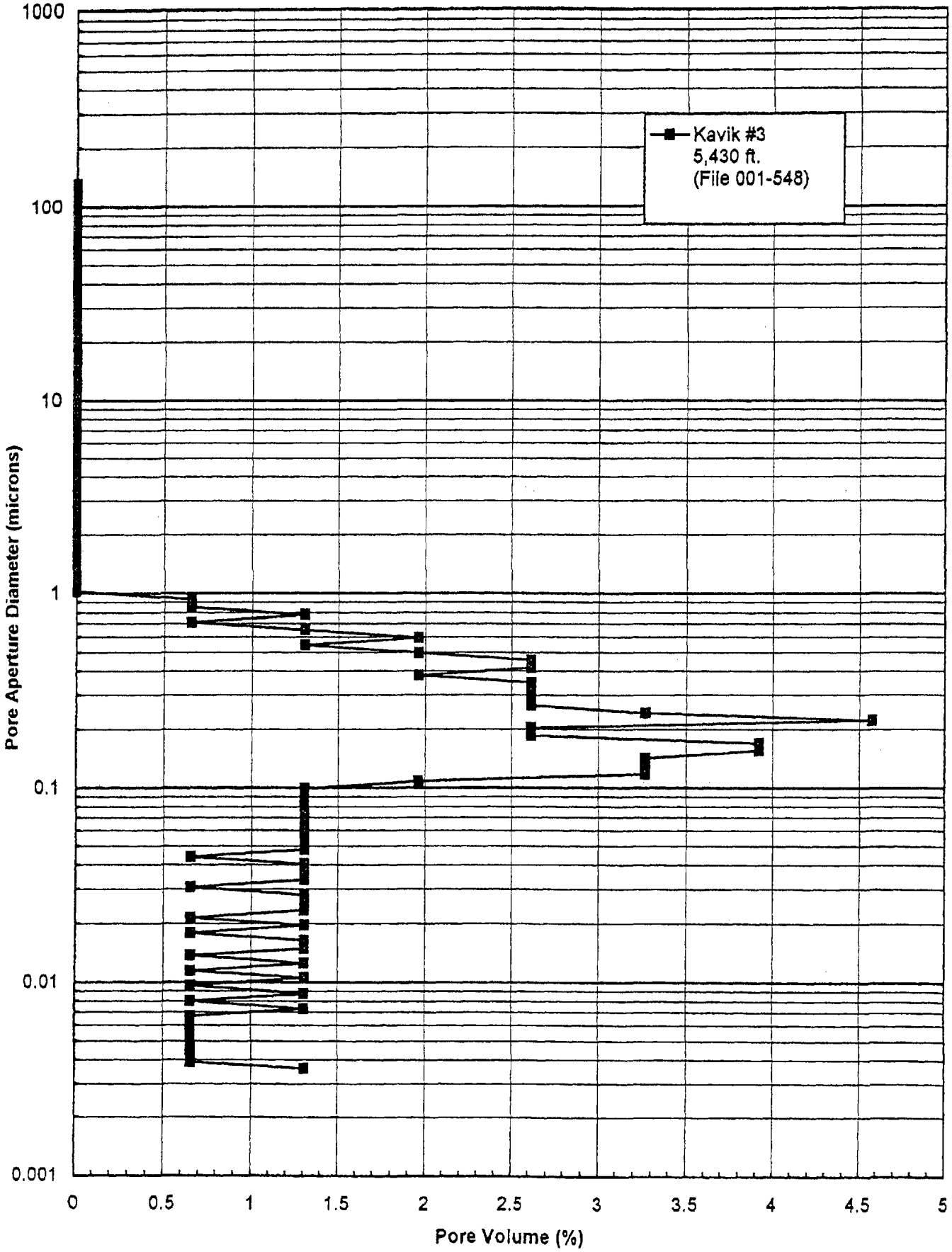
Pore Aperture Size Distribution



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Mercury Injection Capillary Pressure

Kavik #3 : 5,440 feet
File 001-549

Sample Information	
Bulk Volume = 5.1523 cc	Porosity = 1.65 % (mercury)
Pore Volume = 0.0852 cc	Permeability = N/A
Closure = 0.39%bv @ 1050 psia	Median Pore Aperture = 0.0296 microns

Capillary Pressure (psia)	Pore Aperture Diameter (microns)	Cumulative Bulk Vol. (%)	Wetting Phase Saturation (%)	Incremental Wetting Phase Change (%)	Saturation Change per psia
1.64	130	0.00	100.0	0.00	0.0000
1.80	119	0.01	100.0	0.00	0.0000
1.96	109	0.02	100.0	0.00	0.0000
2.15	99.2	0.02	100.0	0.00	0.0000
2.35	90.8	0.03	100.0	0.00	0.0000
2.57	83.0	0.04	100.0	0.00	0.0000
2.81	75.9	0.04	100.0	0.00	0.0000
3.08	69.3	0.05	100.0	0.00	0.0000
3.37	63.3	0.05	100.0	0.00	0.0000
3.68	58.0	0.06	100.0	0.00	0.0000
4.03	52.9	0.06	100.0	0.00	0.0000
4.41	48.4	0.07	100.0	0.00	0.0000
4.82	44.3	0.07	100.0	0.00	0.0000
5.27	40.5	0.08	100.0	0.00	0.0000
5.77	37.0	0.08	100.0	0.00	0.0000
6.31	33.8	0.09	100.0	0.00	0.0000
6.90	30.9	0.10	100.0	0.00	0.0000
7.55	28.3	0.10	100.0	0.00	0.0000
8.26	25.8	0.11	100.0	0.00	0.0000
9.04	23.6	0.11	100.0	0.00	0.0000
9.89	21.6	0.12	100.0	0.00	0.0000
10.8	19.8	0.13	100.0	0.00	0.0000
11.8	18.1	0.13	100.0	0.00	0.0000
12.9	16.5	0.14	100.0	0.00	0.0000
14.2	15.0	0.14	100.0	0.00	0.0000
15.5	13.8	0.15	100.0	0.00	0.0000
16.9	12.6	0.15	100.0	0.00	0.0000
18.5	11.5	0.16	100.0	0.00	0.0000
20.3	10.5	0.16	100.0	0.00	0.0000
22.2	9.61	0.17	100.0	0.00	0.0000
24.3	8.78	0.18	100.0	0.00	0.0000
26.6	8.02	0.19	100.0	0.00	0.0000
29.0	7.36	0.19	100.0	0.00	0.0000
31.8	6.71	0.20	100.0	0.00	0.0000
34.8	6.13	0.22	100.0	0.00	0.0000
38.0	5.61	0.23	100.0	0.00	0.0000

Mercury Injection Capillary Pressure

Kavik #3 : 5,440 feet
File 001-549

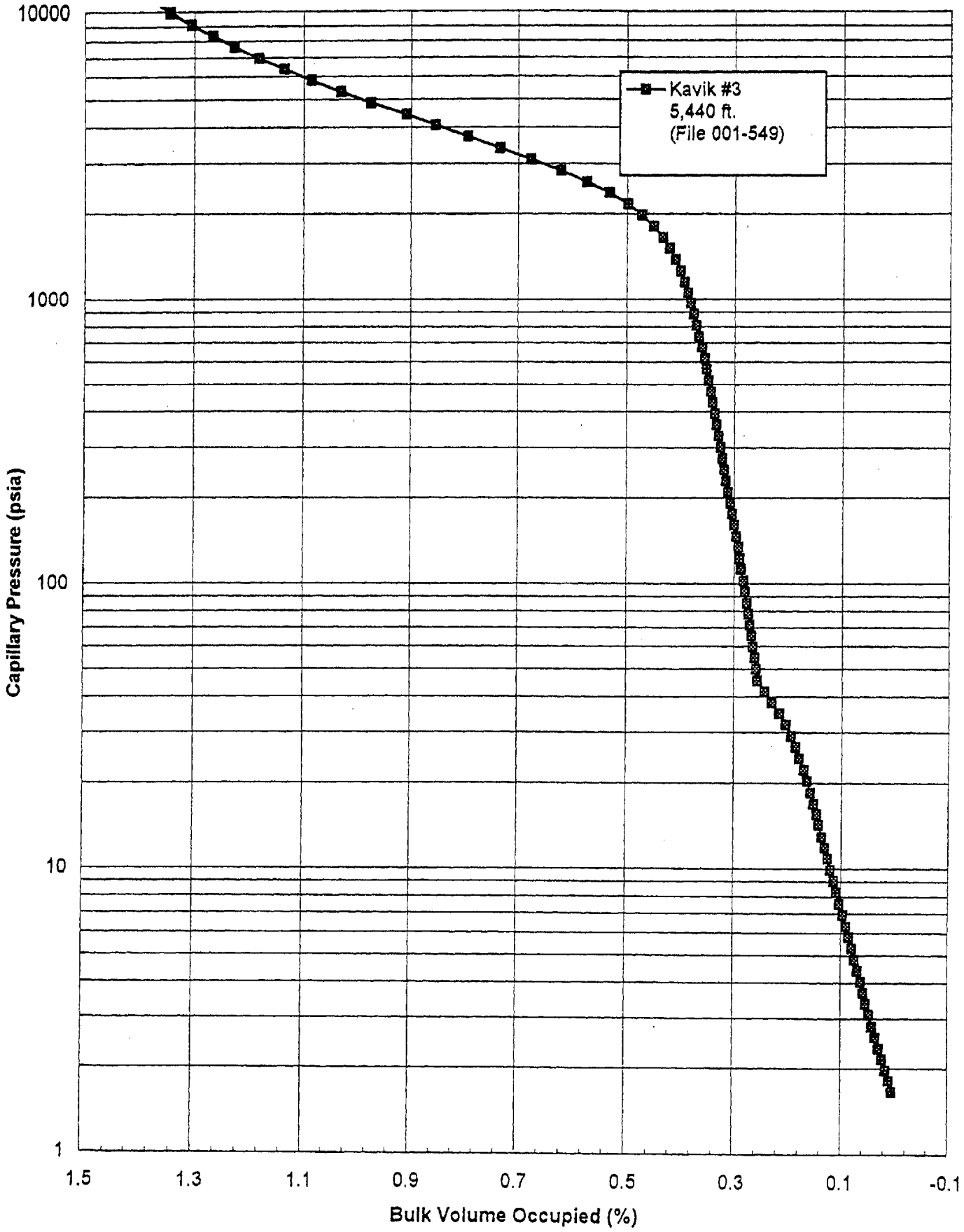
Capillary Pressure (psia)	Pore Aperture Diameter (microns)	Cumulative Bulk Vol. (%)	Wetting Phase Saturation (%)	Incremental Wetting Phase Change (%)	Saturation Change per psia
41.6	5.13	0.24	100.0	0.00	0.0000
45.5	4.69	0.26	100.0	0.00	0.0000
49.8	4.28	0.26	100.0	0.00	0.0000
54.5	3.91	0.26	100.0	0.00	0.0000
59.6	3.58	0.26	100.0	0.00	0.0000
65.2	3.27	0.27	100.0	0.00	0.0000
71.3	2.99	0.27	100.0	0.00	0.0000
78.0	2.73	0.27	100.0	0.00	0.0000
85.3	2.50	0.28	100.0	0.00	0.0000
93.4	2.28	0.28	100.0	0.00	0.0000
102	2.09	0.28	100.0	0.00	0.0000
112	1.90	0.29	100.0	0.00	0.0000
122	1.75	0.29	100.0	0.00	0.0000
134	1.59	0.29	100.0	0.00	0.0000
146	1.46	0.30	100.0	0.00	0.0000
160	1.33	0.30	100.0	0.00	0.0000
175	1.22	0.30	100.0	0.00	0.0000
191	1.12	0.31	100.0	0.00	0.0000
209	1.02	0.31	100.0	0.00	0.0000
229	0.932	0.32	100.0	0.00	0.0000
251	0.850	0.32	100.0	0.00	0.0000
274	0.779	0.32	100.0	0.00	0.0000
300	0.711	0.33	100.0	0.00	0.0000
328	0.650	0.33	100.0	0.00	0.0000
359	0.594	0.33	100.0	0.00	0.0000
393	0.543	0.34	100.0	0.00	0.0000
430	0.496	0.34	100.0	0.00	0.0000
470	0.454	0.34	100.0	0.00	0.0000
514	0.415	0.35	100.0	0.00	0.0000
563	0.379	0.35	100.0	0.00	0.0000
615	0.347	0.36	100.0	0.00	0.0000
673	0.317	0.36	100.0	0.00	0.0000
736	0.290	0.37	100.0	0.00	0.0000
806	0.265	0.37	100.0	0.00	0.0000
881	0.242	0.38	100.0	0.00	0.0000
964	0.221	0.38	100.0	0.00	0.0000
1050	0.203	0.39	100.0	0.01	0.0001
1150	0.186	0.39	99.6	0.42	0.0042
1260	0.169	0.40	99.1	0.46	0.0041
1380	0.155	0.41	98.5	0.58	0.0048
1510	0.141	0.42	97.9	0.65	0.0050
1650	0.129	0.43	97.1	0.76	0.0054

Mercury Injection Capillary Pressure

Kavik #3 : 5,440 feet
File 001-549

Capillary Pressure (psia)	Pore Aperture Diameter (microns)	Cumulative Bulk Vol. (%)	Wetting Phase Saturation (%)	Incremental Wetting Phase Change (%)	Saturation Change per psia
1810	0.1179	0.45	96.1	1.06	0.0067
1980	0.1077	0.47	94.7	1.34	0.0079
2160	0.0988	0.50	93.2	1.53	0.0085
2370	0.0900	0.53	91.1	2.11	0.0100
2590	0.0824	0.57	88.6	2.49	0.0113
2830	0.0754	0.62	85.6	2.97	0.0124
3100	0.0688	0.68	82.2	3.42	0.0127
3390	0.0629	0.73	78.8	3.46	0.0119
3710	0.0575	0.79	75.1	3.69	0.0115
4060	0.0525	0.85	71.3	3.75	0.0107
4440	0.0480	0.91	67.9	3.37	0.0089
4850	0.0440	0.97	63.9	4.03	0.0098
5310	0.0402	1.03	60.5	3.42	0.0074
5810	0.0367	1.08	57.1	3.35	0.0067
6360	0.0335	1.14	54.0	3.16	0.0057
6950	0.0307	1.18	51.1	2.84	0.0048
7610	0.0280	1.23	48.4	2.74	0.0042
8320	0.0256	1.27	45.9	2.44	0.0034
9100	0.0234	1.31	43.6	2.39	0.0031
9960	0.0214	1.34	41.2	2.37	0.0028
10900	0.0196	1.38	38.9	2.29	0.0024
11900	0.0179	1.42	36.6	2.29	0.0023
13000	0.0164	1.46	34.3	2.26	0.0021
14300	0.0149	1.49	32.0	2.32	0.0018
15600	0.0137	1.53	29.8	2.19	0.0017
17100	0.0125	1.56	27.7	2.18	0.0015
18700	0.0114	1.60	25.5	2.16	0.0014
20400	0.0105	1.63	23.4	2.12	0.0012
22300	0.0096	1.67	21.2	2.20	0.0012
24400	0.0087	1.70	19.1	2.12	0.0010
26700	0.0080	1.74	16.9	2.12	0.0009
29300	0.0073	1.77	14.8	2.15	0.0008
32000	0.0067	1.81	12.9	1.92	0.0007
35000	0.0061	1.84	10.9	1.92	0.0006
38300	0.0056	1.87	9.2	1.76	0.0005
41900	0.0051	1.89	7.5	1.65	0.0005
45800	0.0047	1.92	6.0	1.49	0.0004
50100	0.0043	1.94	4.6	1.45	0.0003
54800	0.0039	1.98	2.4	2.17	0.0005
59500	0.0036	2.01	0.0	2.42	0.0005

Mercury Injection Capillary Pressure (Bulk Volume)



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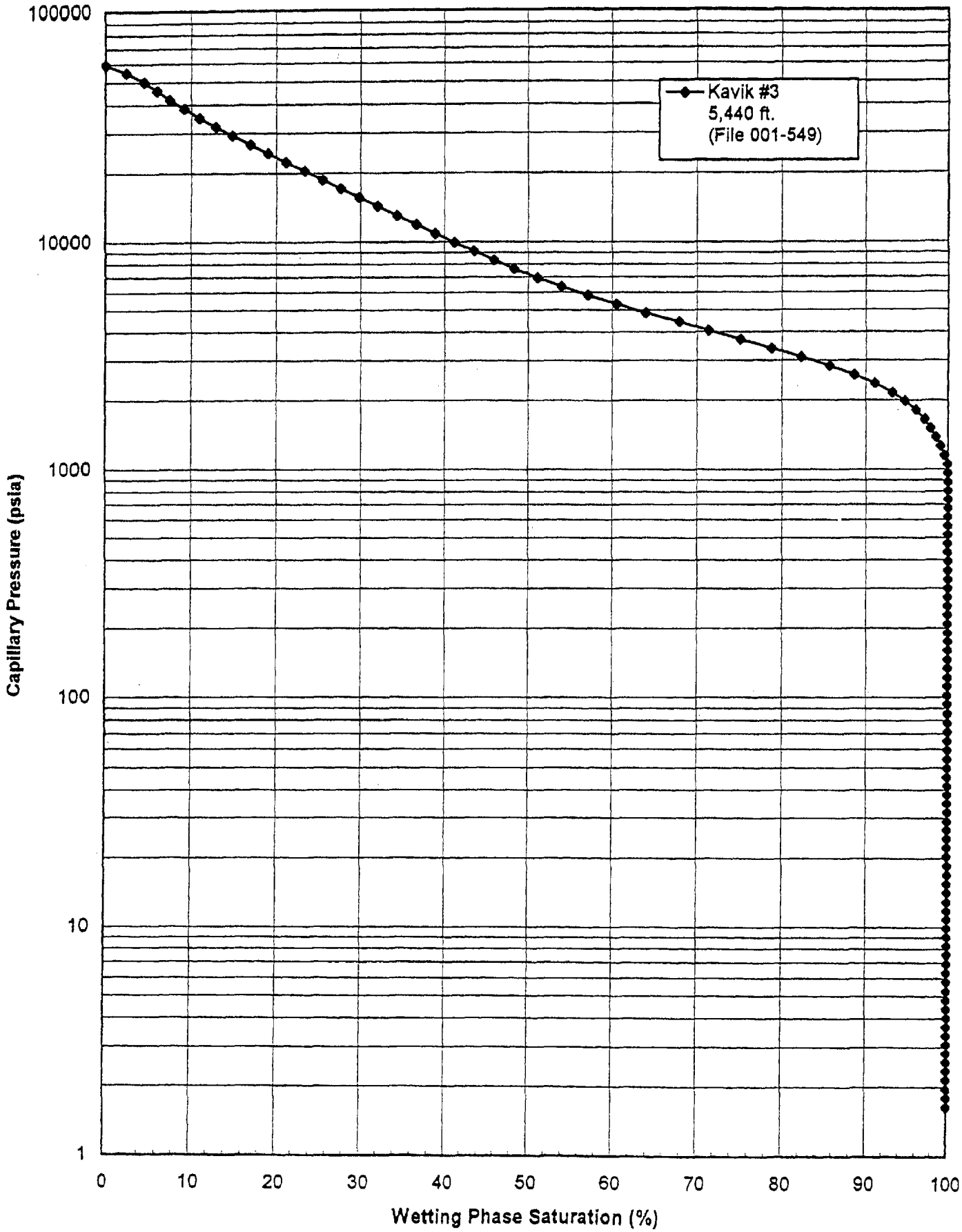
Mercury Injection Capillary Pressure (Pore Volume)



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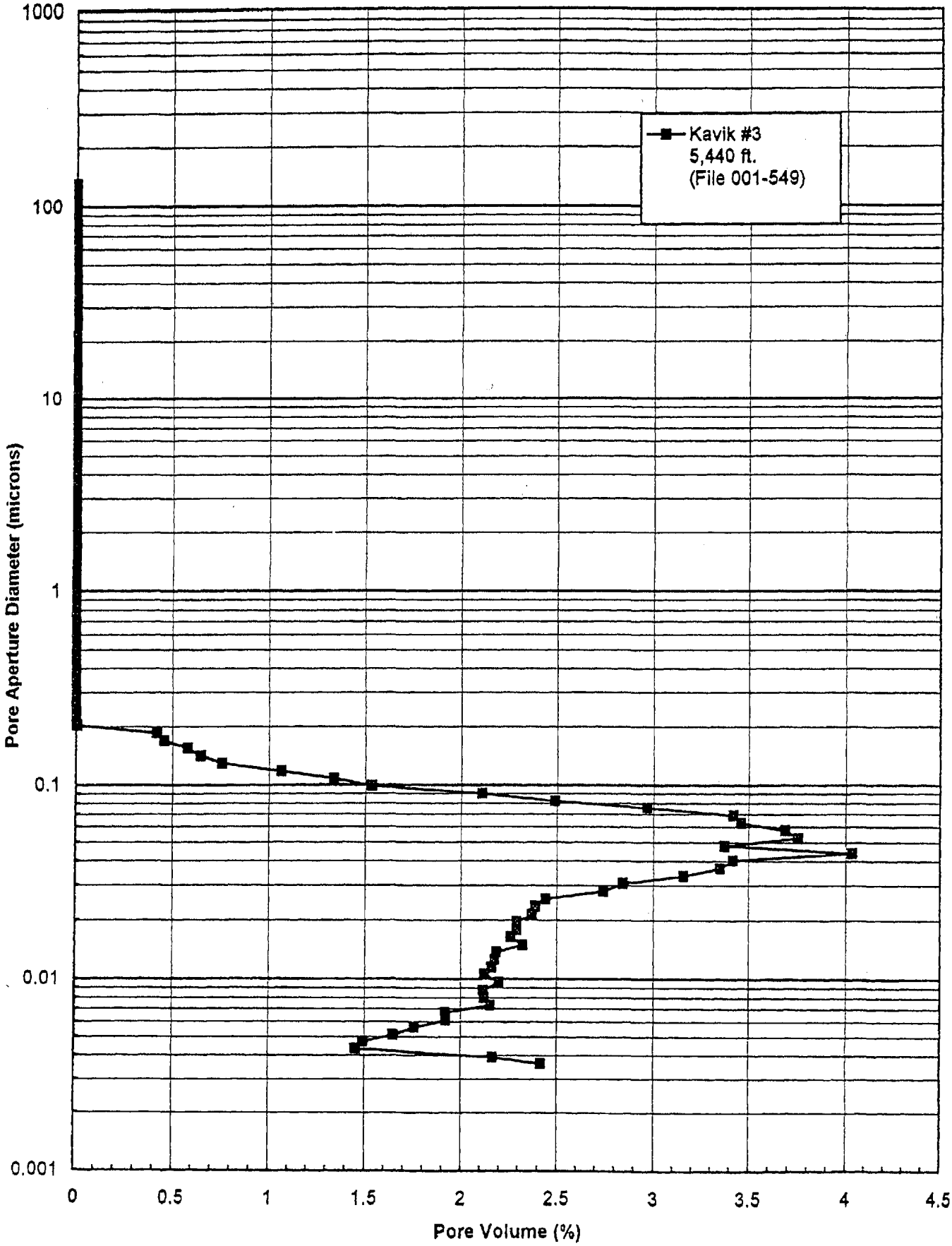
Pore Aperture Size Distribution



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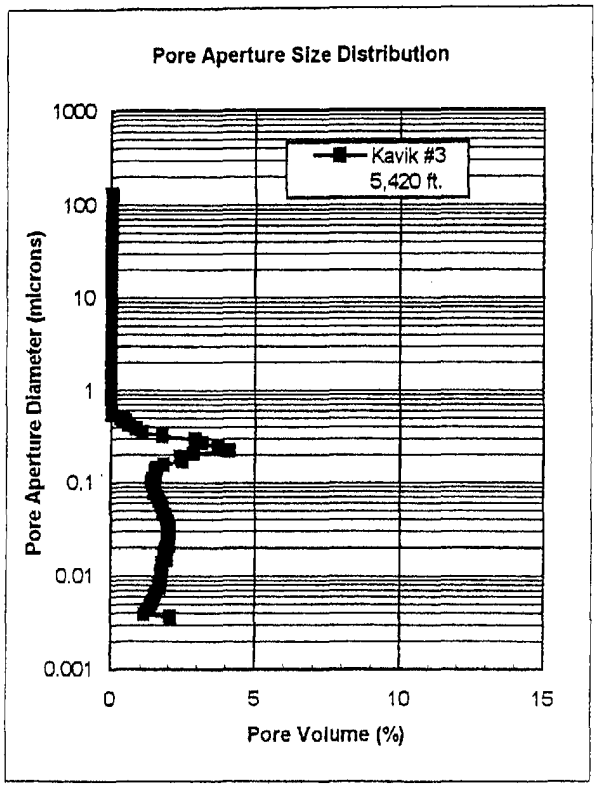
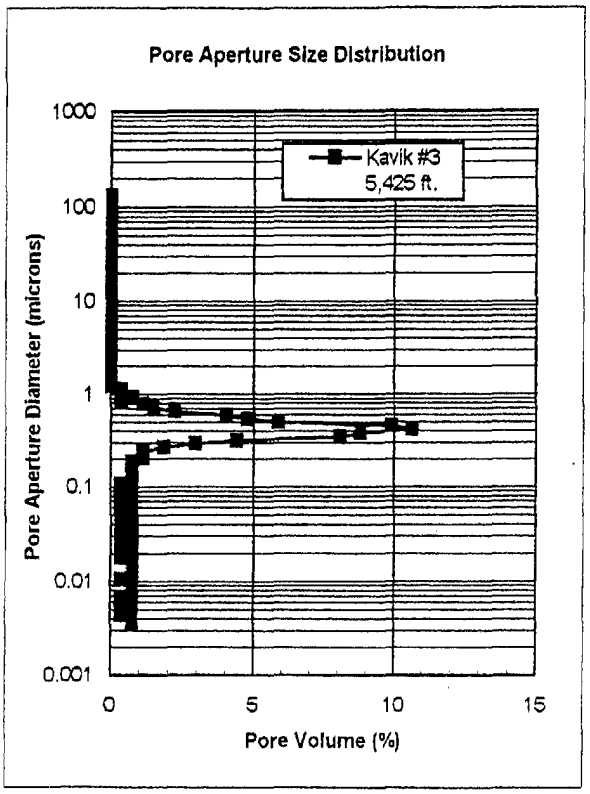
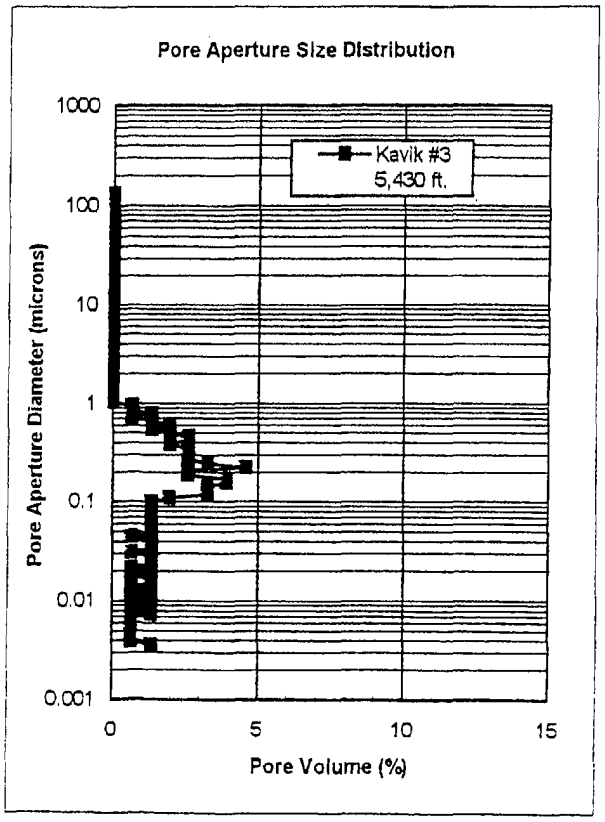
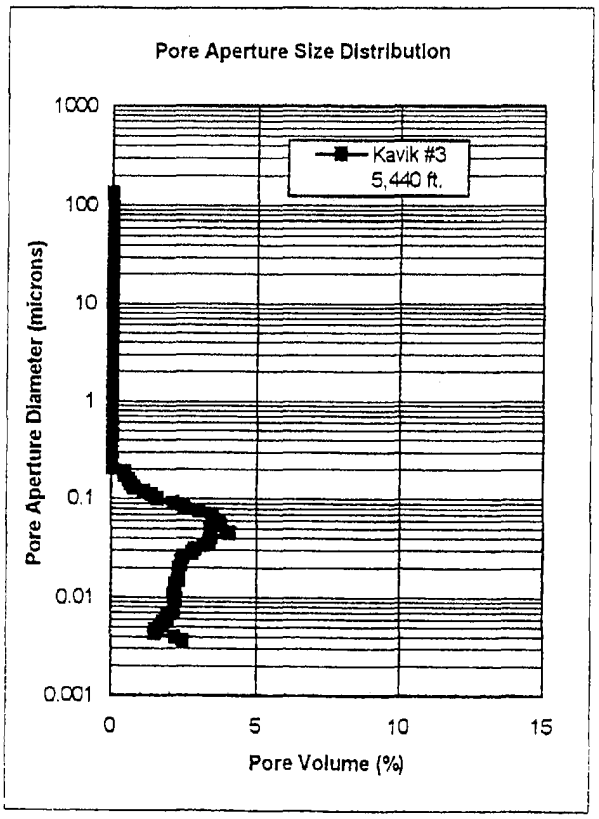
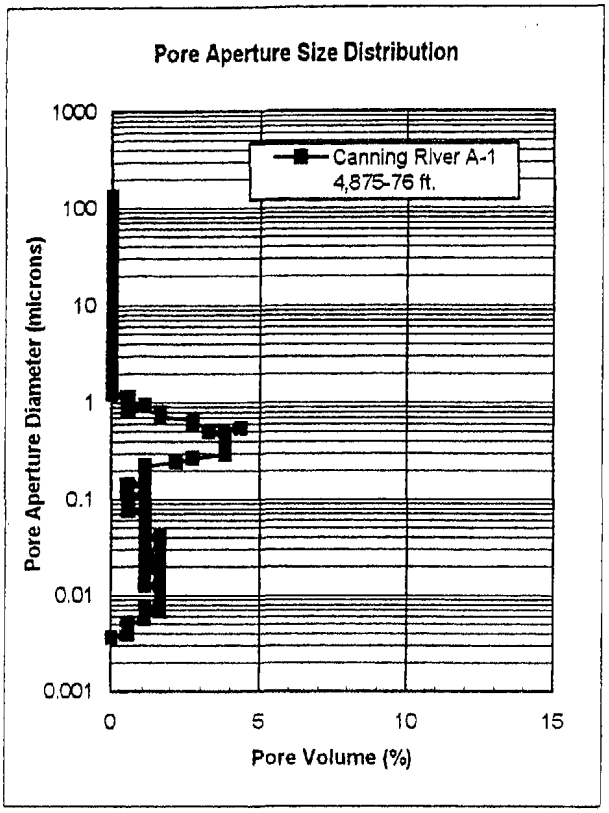
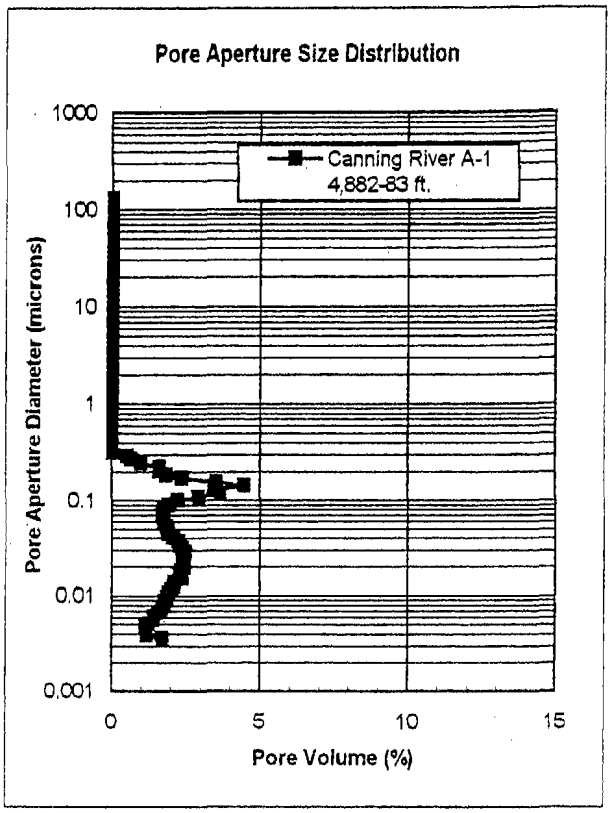

Pore Aperture Size Distribution
Kavik #3
5,420 ft.
Pore Aperture Diameter (microns)
1000
100
10
1
0.1
0.01
0.001
0
5
10
15
Pore Volume (%)

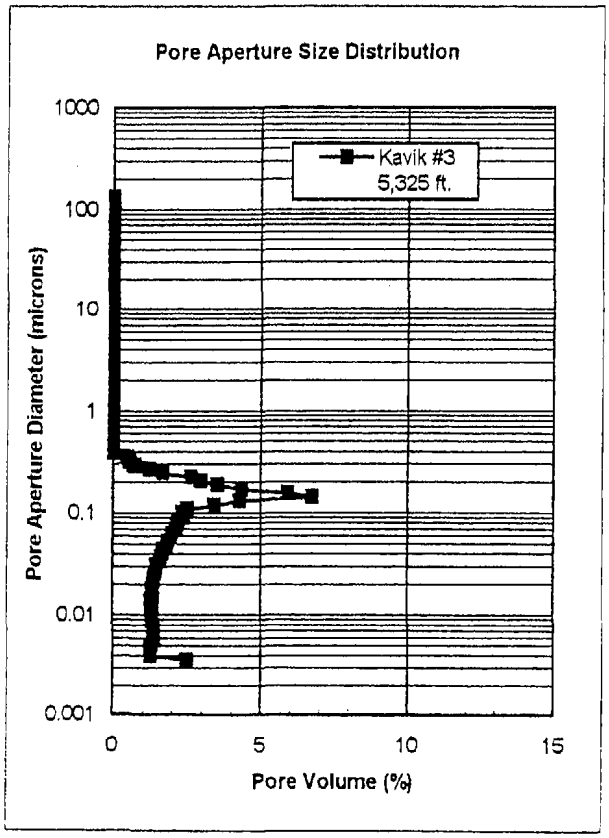

Pore Aperture Size Distribution
Kavik #3
5,425 ft.
Pore Aperture Diameter (microns)
1000
100
10
1
0.1
0.01
0.001
0
5
10
15
Pore Volume (%)

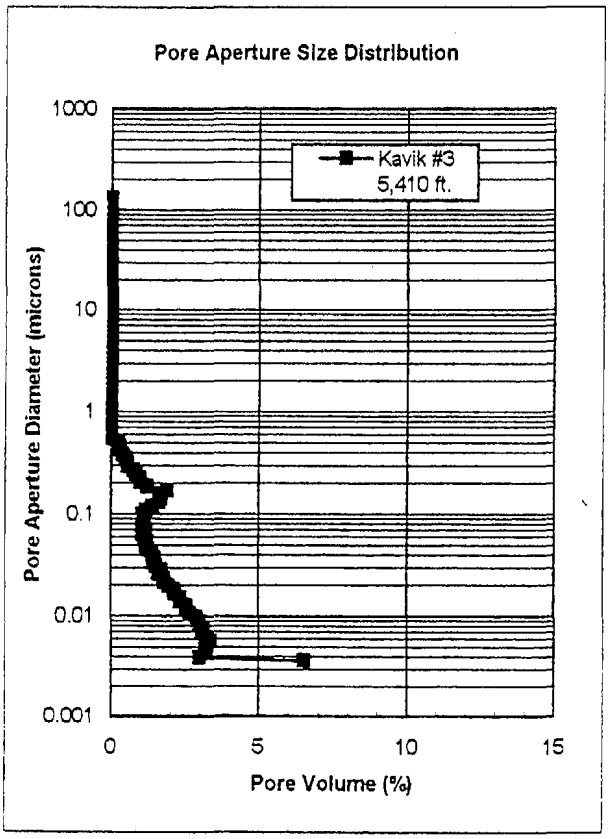

Pore Aperture Size Distribution
Kavik #3
5,430 ft.
Pore Aperture Diameter (microns)
1000
100
10
1
0.1
0.01
0.001
0
5
10
15
Pore Volume (%)


Pore Aperture Size Distribution
Kavik #3
5,440 ft.
Pore Aperture Diameter (microns)
1000
100
10
1
0.1
0.01
0.001
0
5
10
15
Pore Volume (%)


Pore Aperture Size Distribution
Canning River A-1
4,875-76 ft.
Pore Aperture Diameter (microns)
1000
100
10
1
0.1
0.01
0.001
0
5
10
15
Pore Volume (%)


Pore Aperture Size Distribution
Canning River A-1
4,882-83 ft.
Pore Aperture Diameter (microns)
1000
100
10
1
0.1
0.01
0.001
0
5
10
15
Pore Volume (%)


Pore Aperture Size Distribution
Kavik #3
5,325 ft.
Pore Aperture Diameter (microns)
1000
100
10
1
0.1
0.01
0.001
0
5
10
15
Pore Volume (%)


Pore Aperture Size Distribution
Kavik #3
5,410 ft.
Pore Aperture Diameter (microns)
1000
100
10
1
0.1
0.01
0.001
0
5
10
15
Pore Volume (%)