MERCURY INJECTION CAPILLARY PRESSURE RESULTS FROM OUTCROP SAMPLES IN THE HOMER AREA OF COOK INLET

by
Andrea Loveland[1]

INTRODUCTION

This chapter summarizes mercury-injection capillary pressure data for 12 outcrop samples collected from the Beluga and Sterling formations in the vicinity of Homer, Alaska, during the 2007 field season (figs. 1 and 2). All samples are tied to measured stratigraphic sections, which are presented in LePain and others (this volume). Sample numbers correspond to measured section numbers and the sample position (meters above base of section) in a measured section. For example, sample 07JRM002–3.5a was collected 3.5 meters above the base of measured section 07JRM002. Analyses were performed by PetroTech Associates, Houston, Texas.

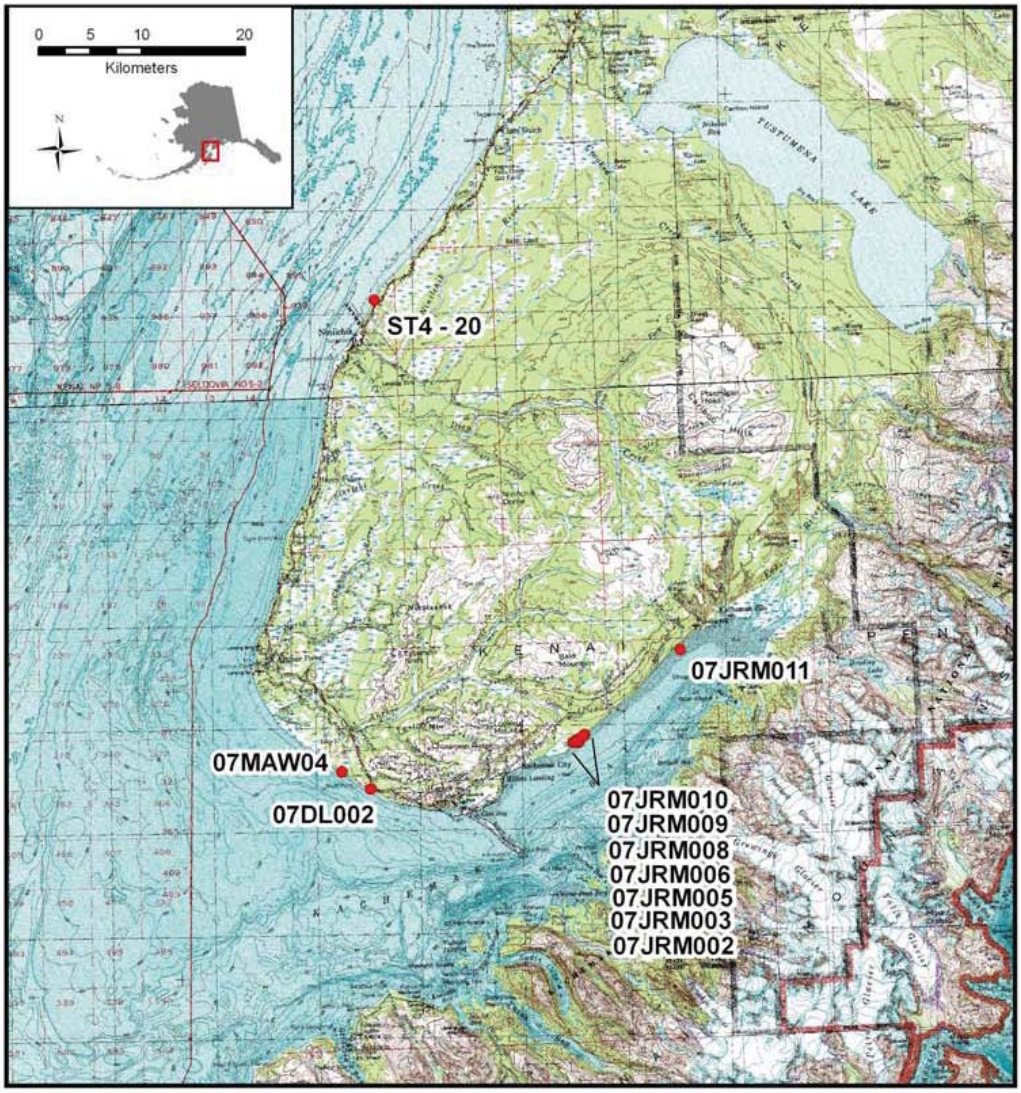

Figure 1. Map showing the Cook Inlet area and the locations of the measured sections from which the MICP samples were collected.

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Potential seal capacity data for gas/water and oil/water systems at four different saturation levels are summarized in figures 3a–b and 4a–b, respectively. Figures 5 and 6 illustrate the potential seal capacity for gas and oil, respectively, at 7.5% seal saturation. Mercury injection capillary pressure and pore aperture curves are presented in figures 7a–20c. Sample collection sites and lithology data are summarized in table 1. The pore system and capillary properties are summarized in table 2. Oil and gas column heights are summarized in table 3. Mercury injection capillary pressure data for each sample are presented in tables 4 through 17.

ACKNOWLEDGMENTS

Funding for this work was provided by Benchmark Oil and Gas, Pioneer Natural Resources, Chevron North American Exploration and Production Company, and the State of Alaska.

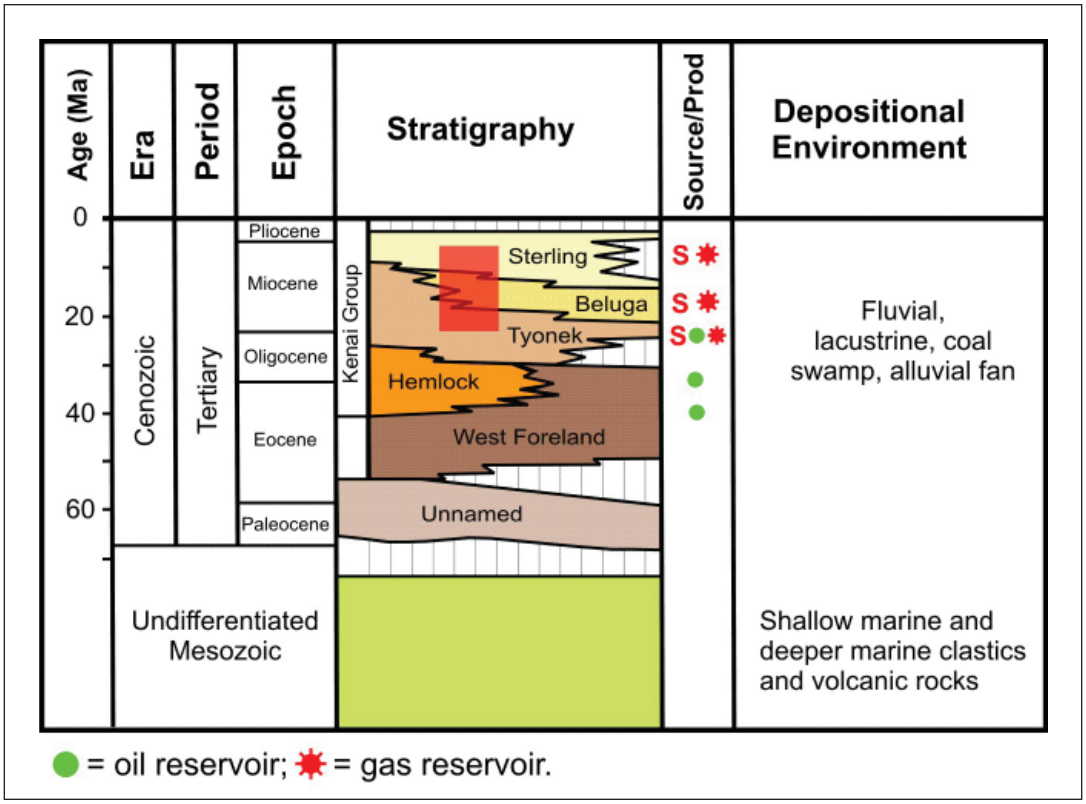

Figure 2. Simplified stratigraphic column showing Tertiary nonmarine formations in Cook Inlet basin. Vertical red bar shows stratigraphic interval where MICP samples were collected. Modified from Swenson (2002).

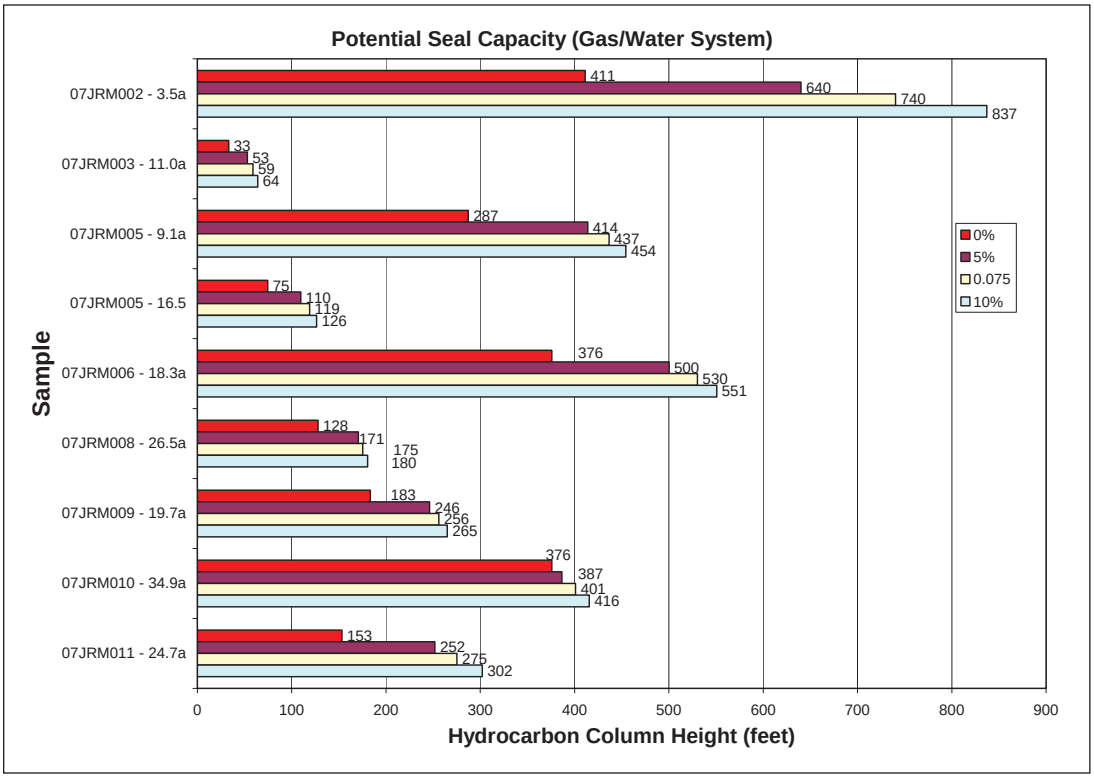

Figure 3a. Potential seal capacity in a gas/water system.

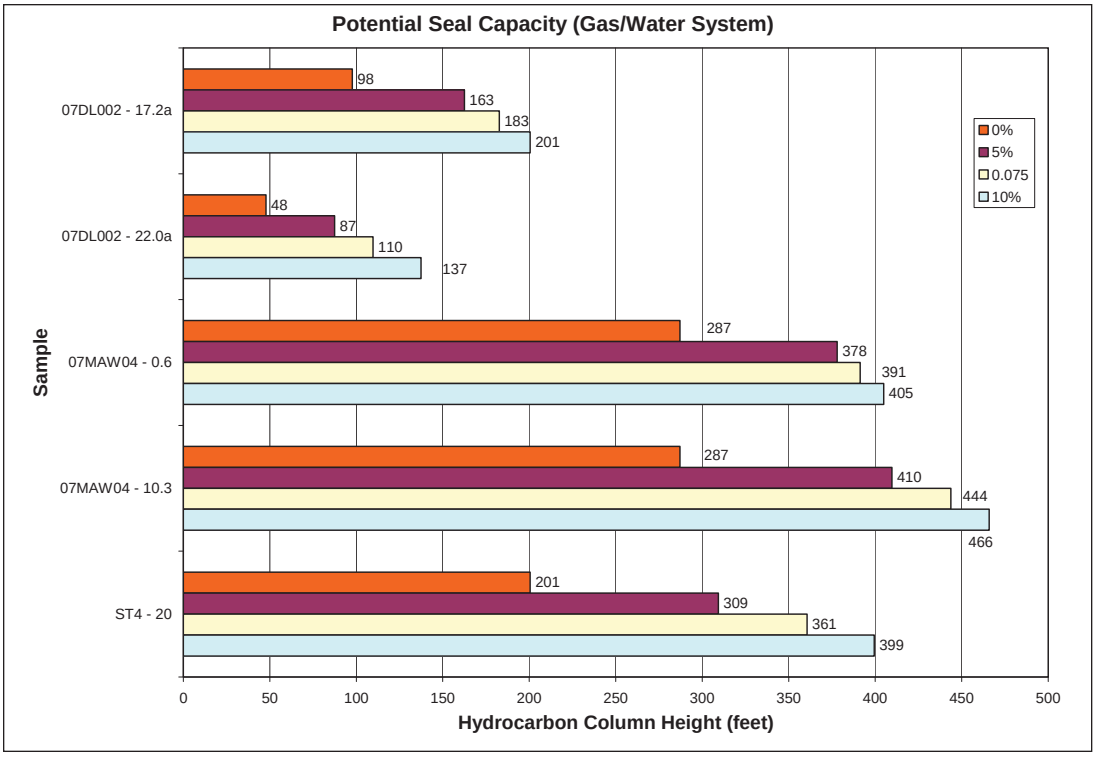

Figure 3b. Potential seal capacity in a gas/water system.

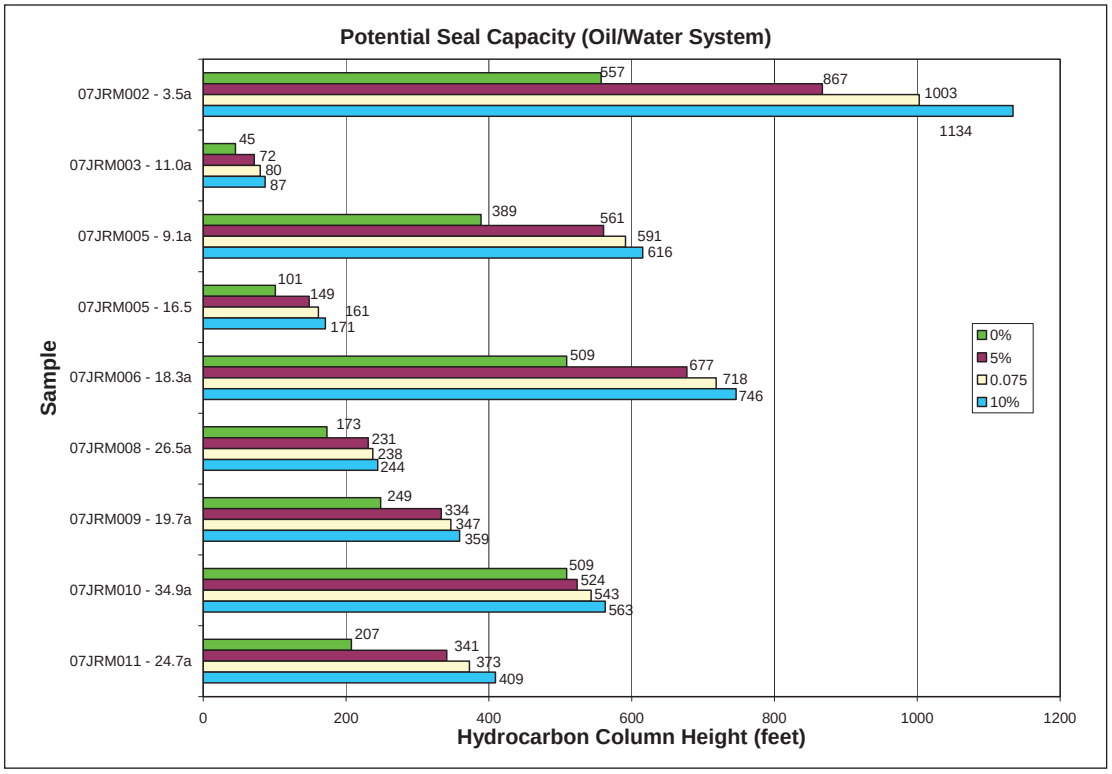

Figure 4a. Potential seal capacity in an oil/water system.

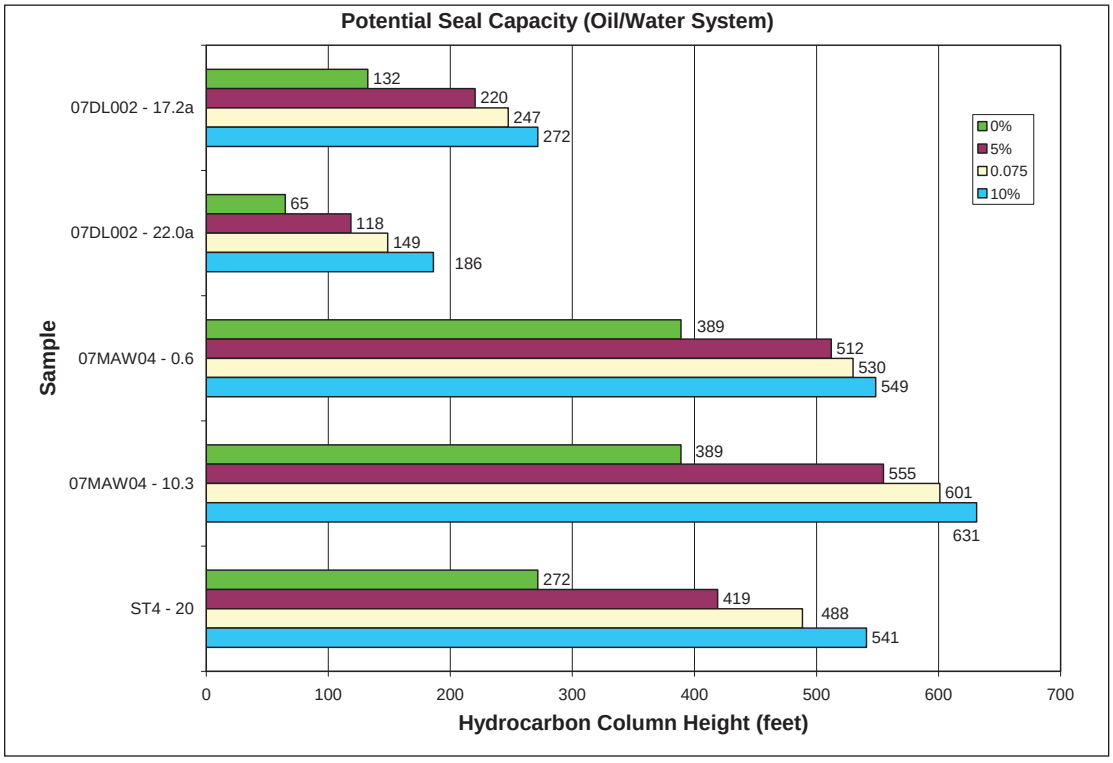

Figure 4b. Potential seal capacity in an oil/water system.

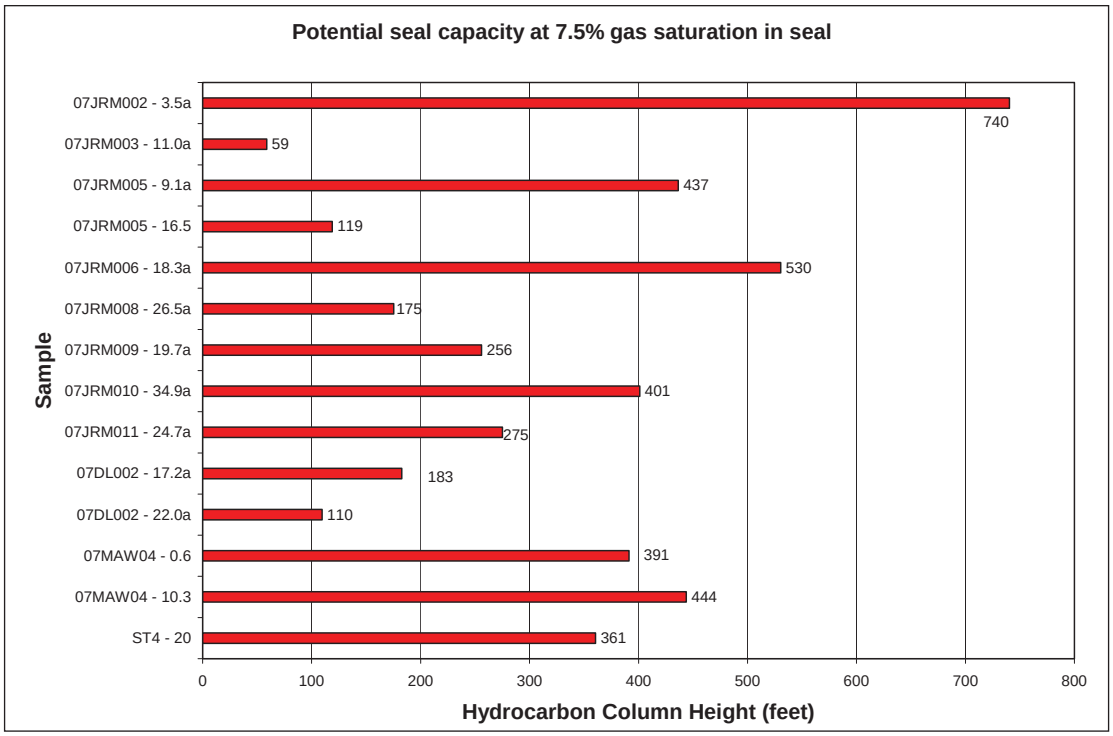

Figure 5. Chart of potential seal capacity at 7.5% gas saturation in seal for each sample.

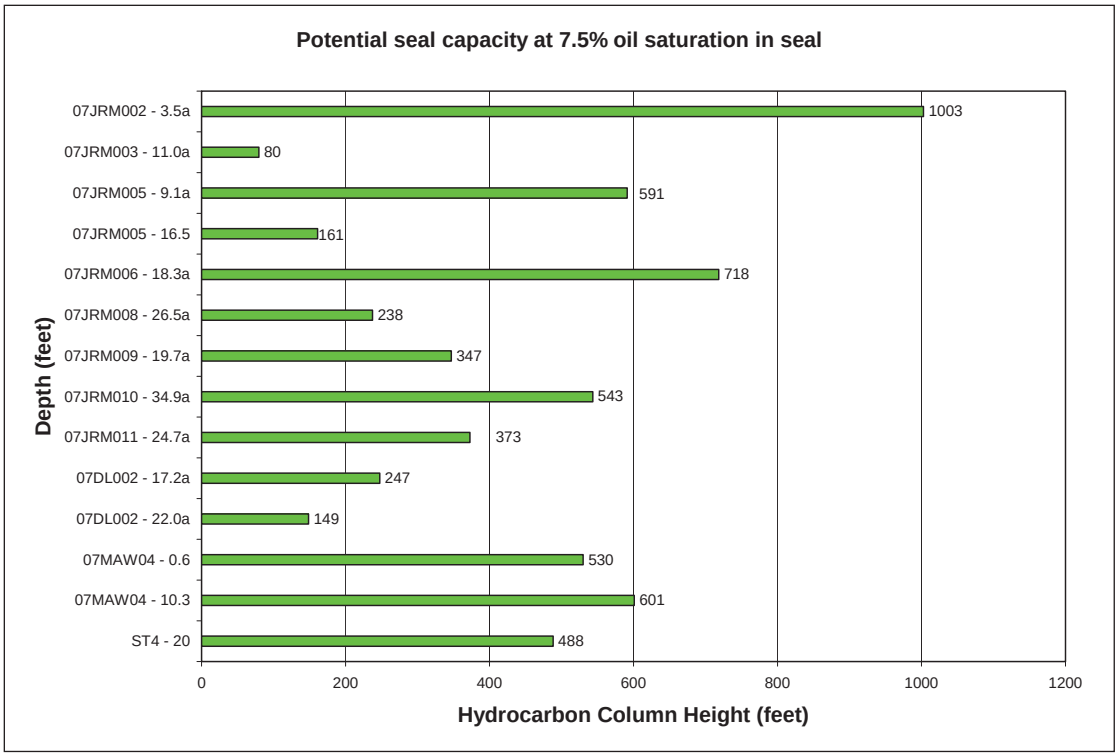

Figure 6. Chart of potential seal capacity at 7.5% oil saturation in seal for each sample.

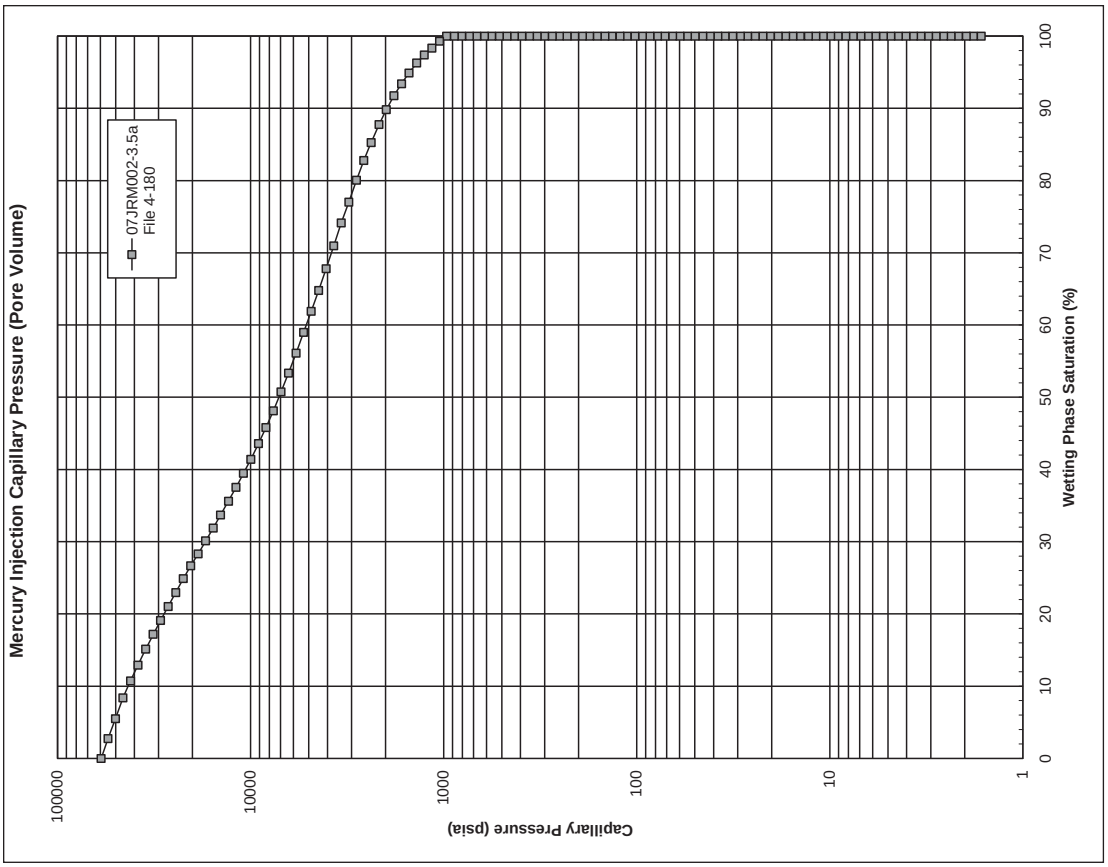

Figure 7b. MICP pore volume for sample 07JRM002 – 3.5a.

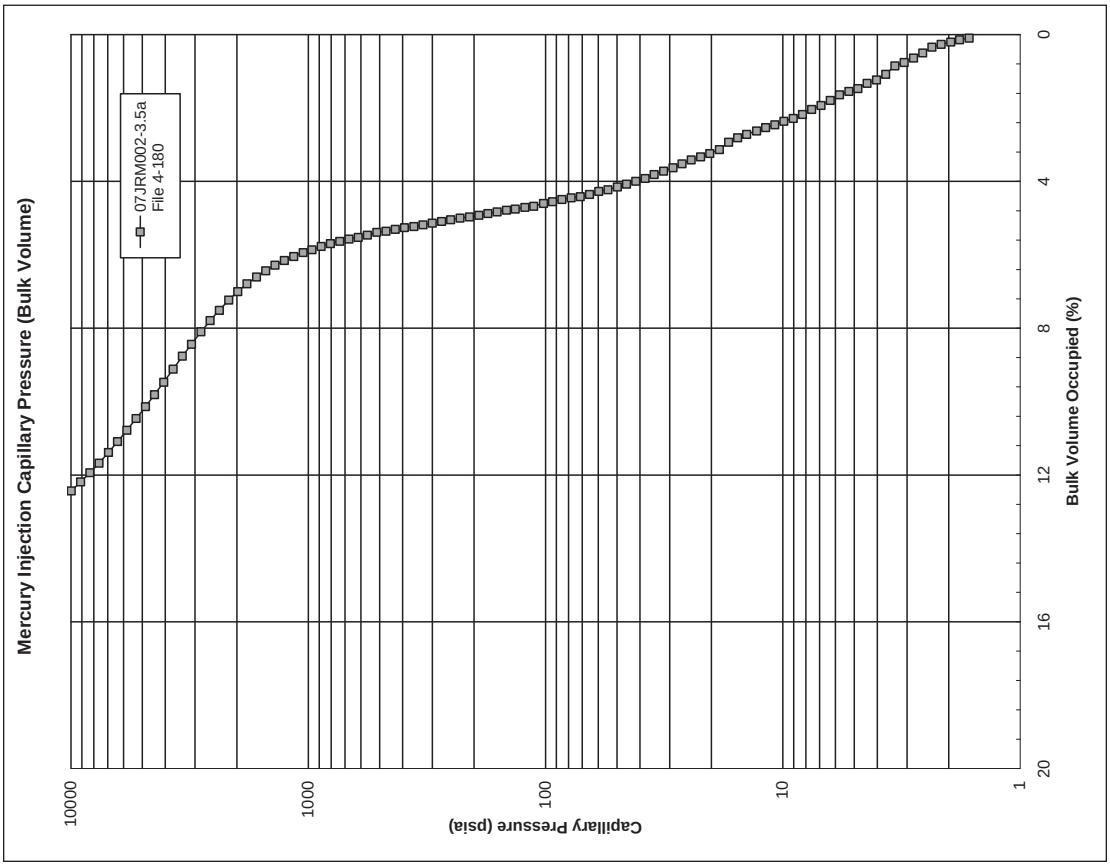

Figure 7a. MICP bulk volume for sample 07JRM002 – 3.5a.

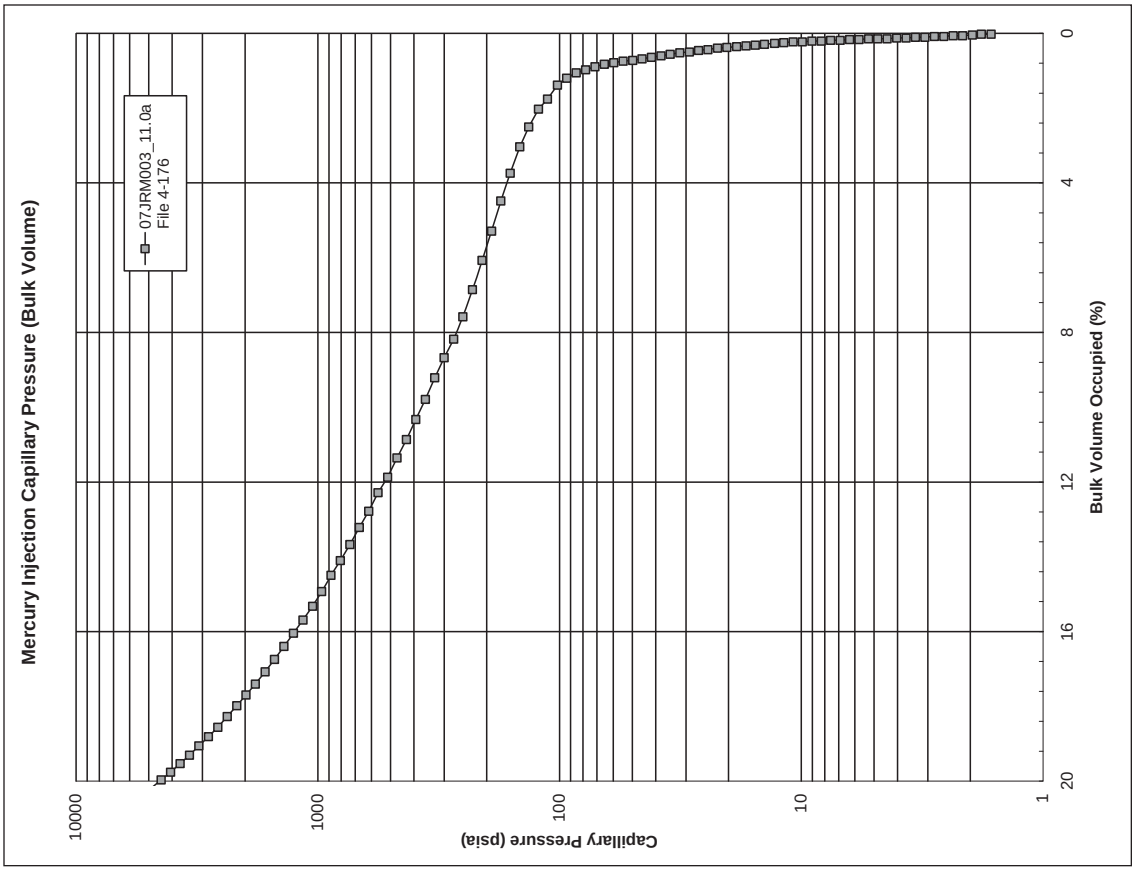

Figure 8a. MICP bulk volume for sample 07JRM003 – 11.0a.

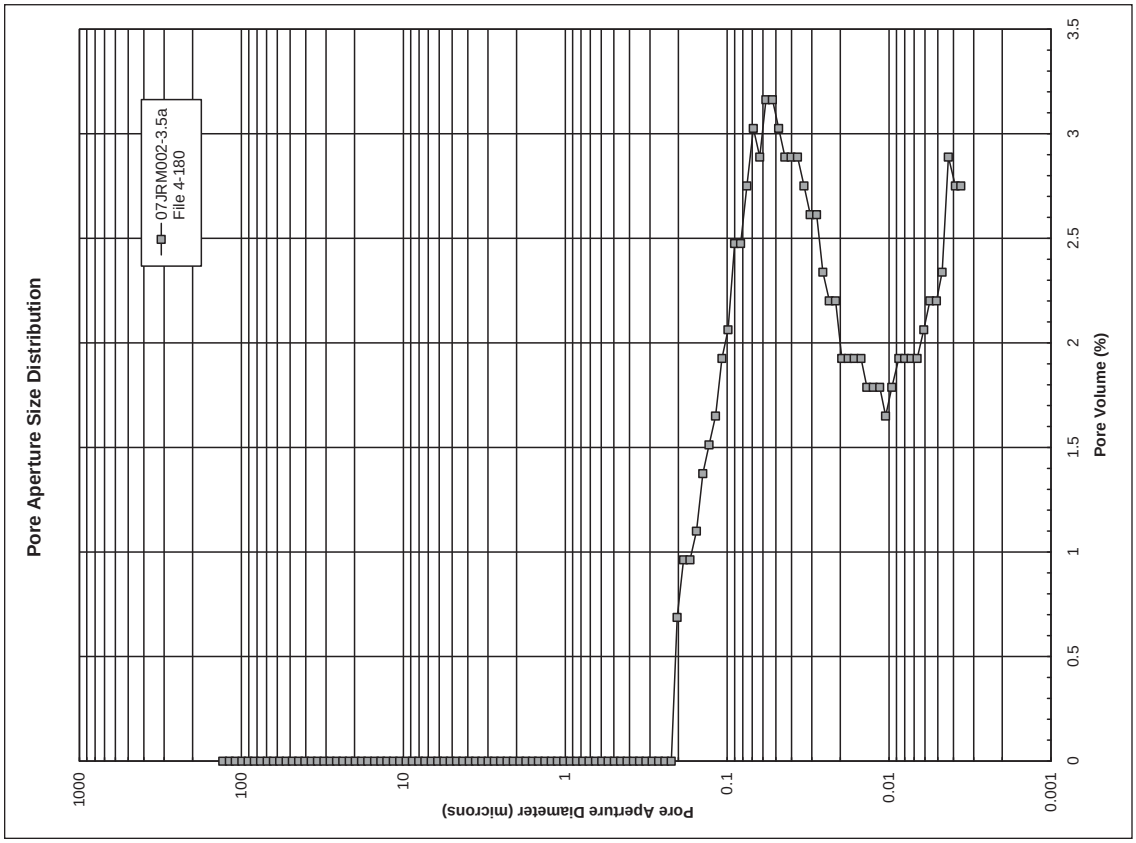

Figure 7c. Pore aperture size for sample 07JRM002 – 3.5a.

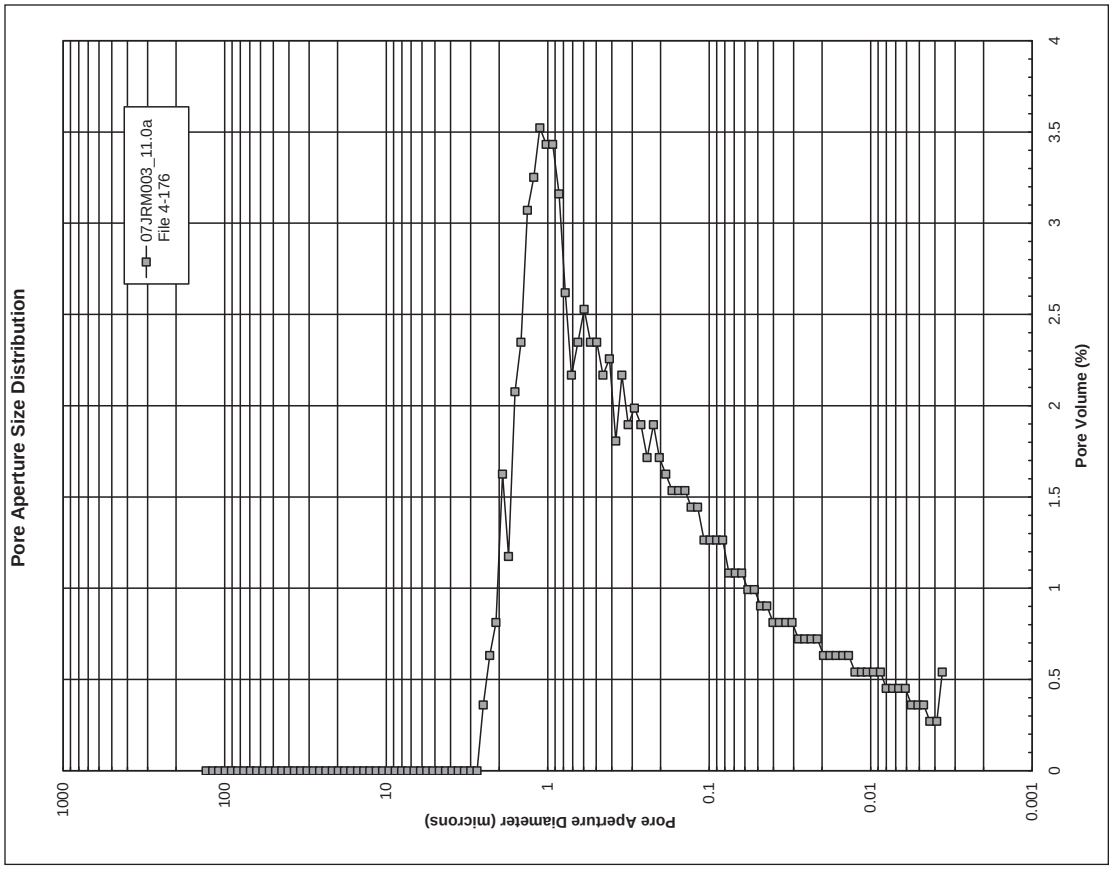

Figure 8c. Pore aperture size for sample 07JRM003 – 11.0a.

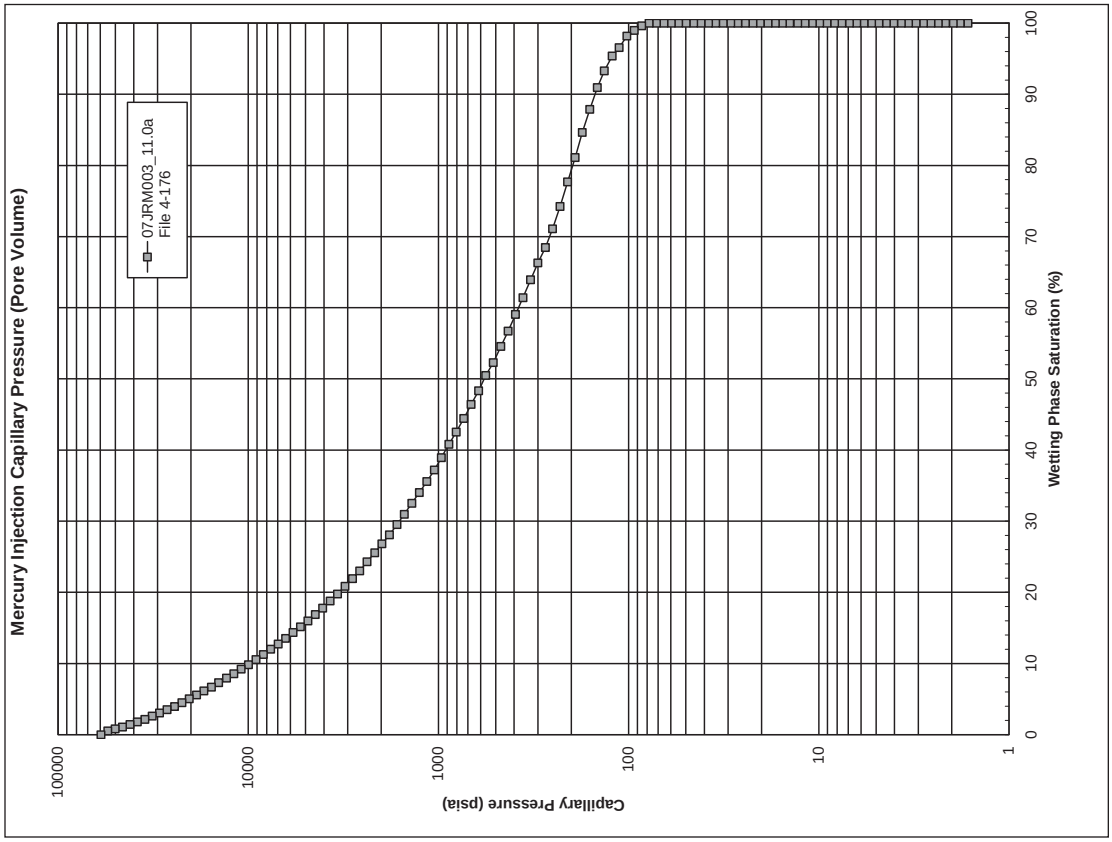

Figure 8b. MICP pore volume for sample 07JRM003 – 11.0a.

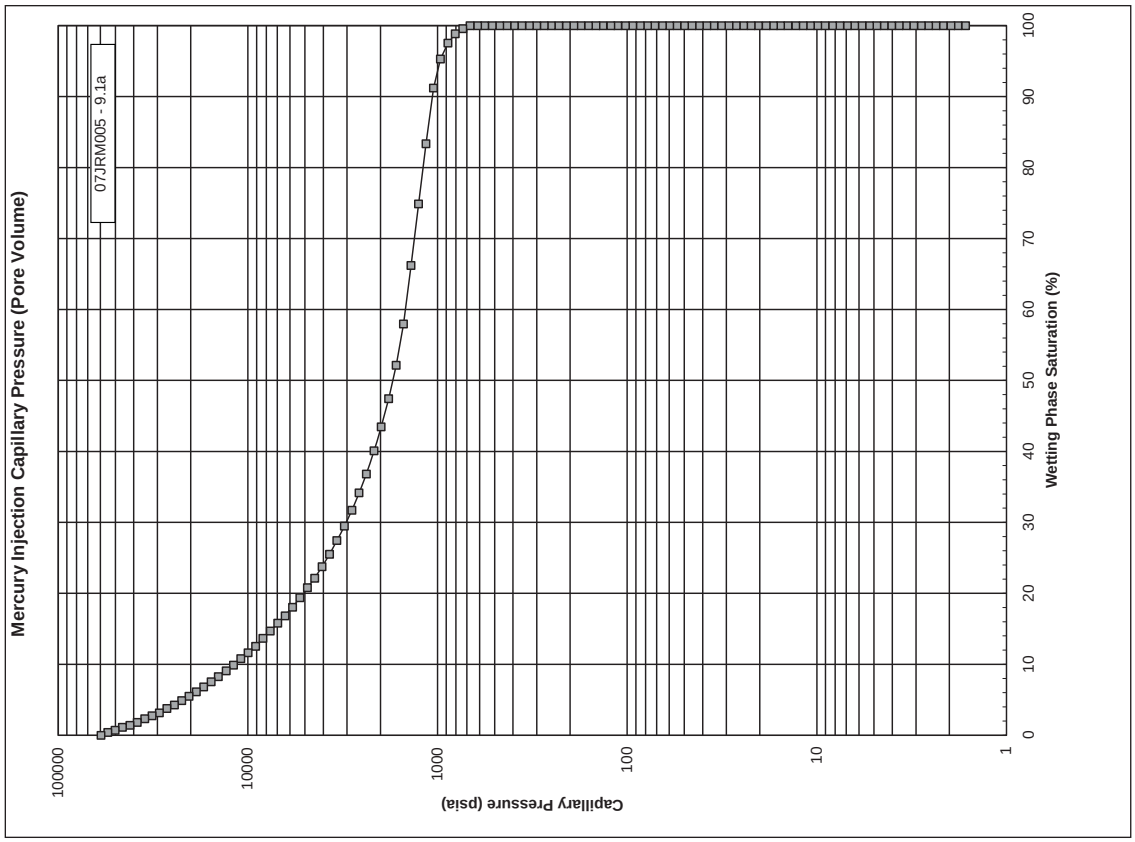

Figure 9b. MICP pore volume for sample 07JRM005 – 9.1a.

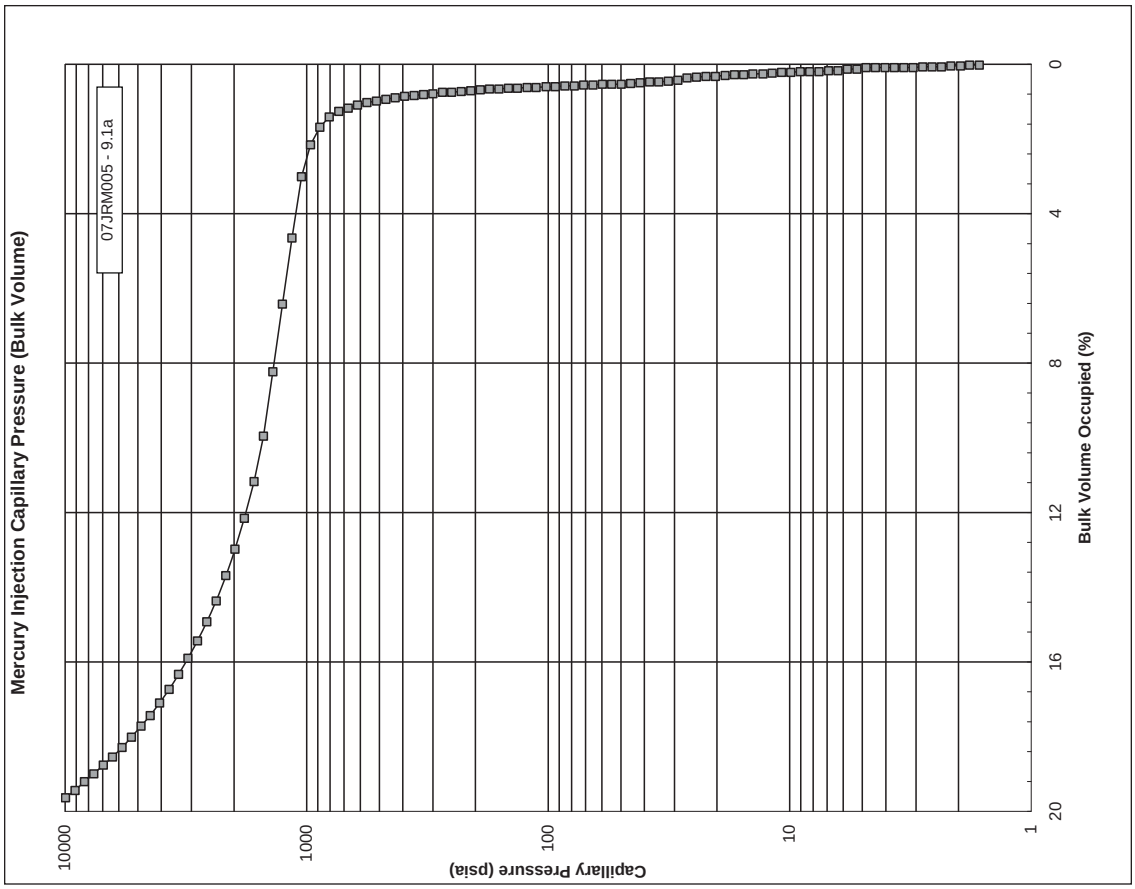

Figure 9a. MICP bulk volume for sample 07JRM005 – 9.1a.

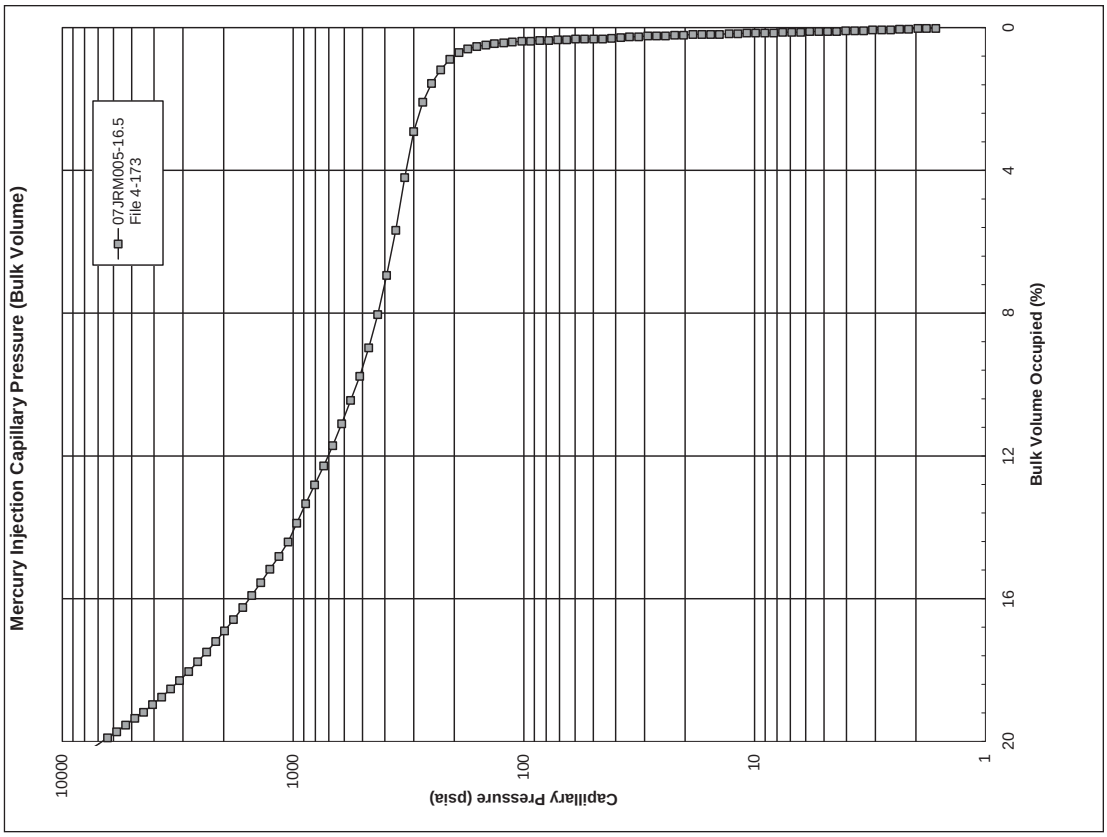

Figure 10a. MICP bulk volume for sample 07JRM005 – 16.5.

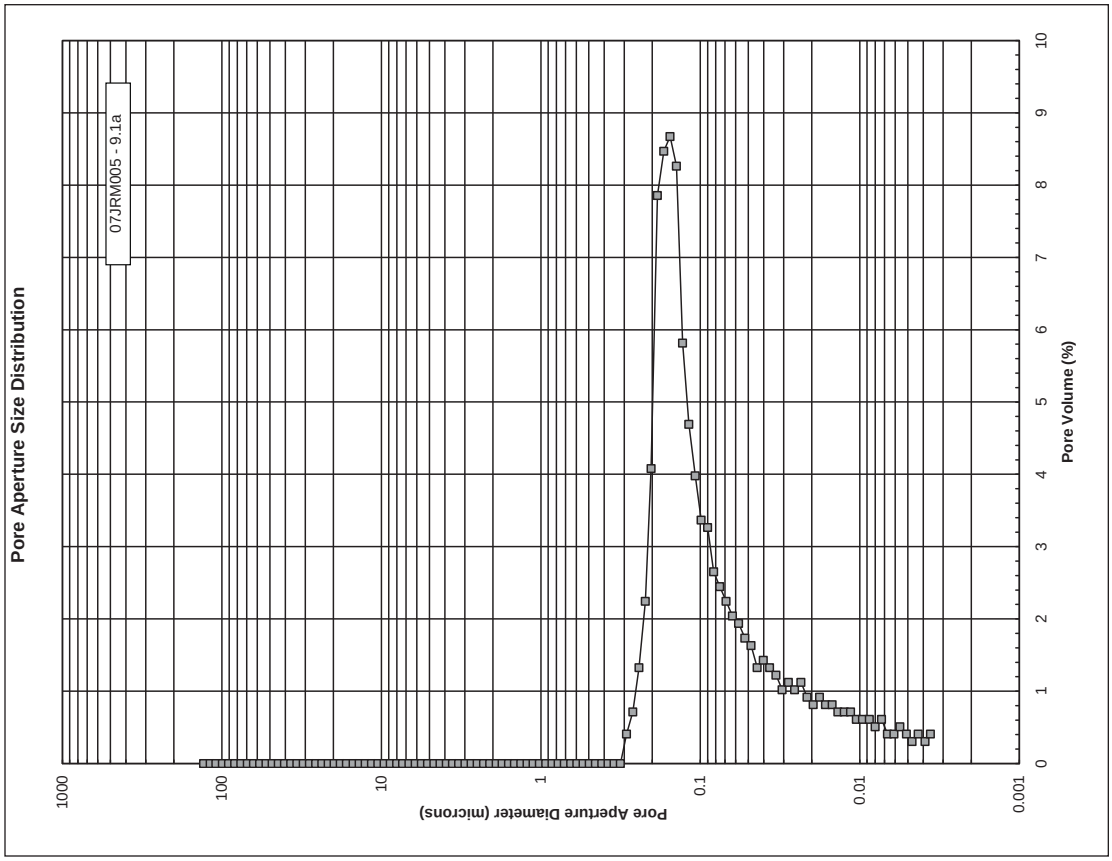

Figure 9c. Pore aperture size for sample 07JRM005 – 9.1a.

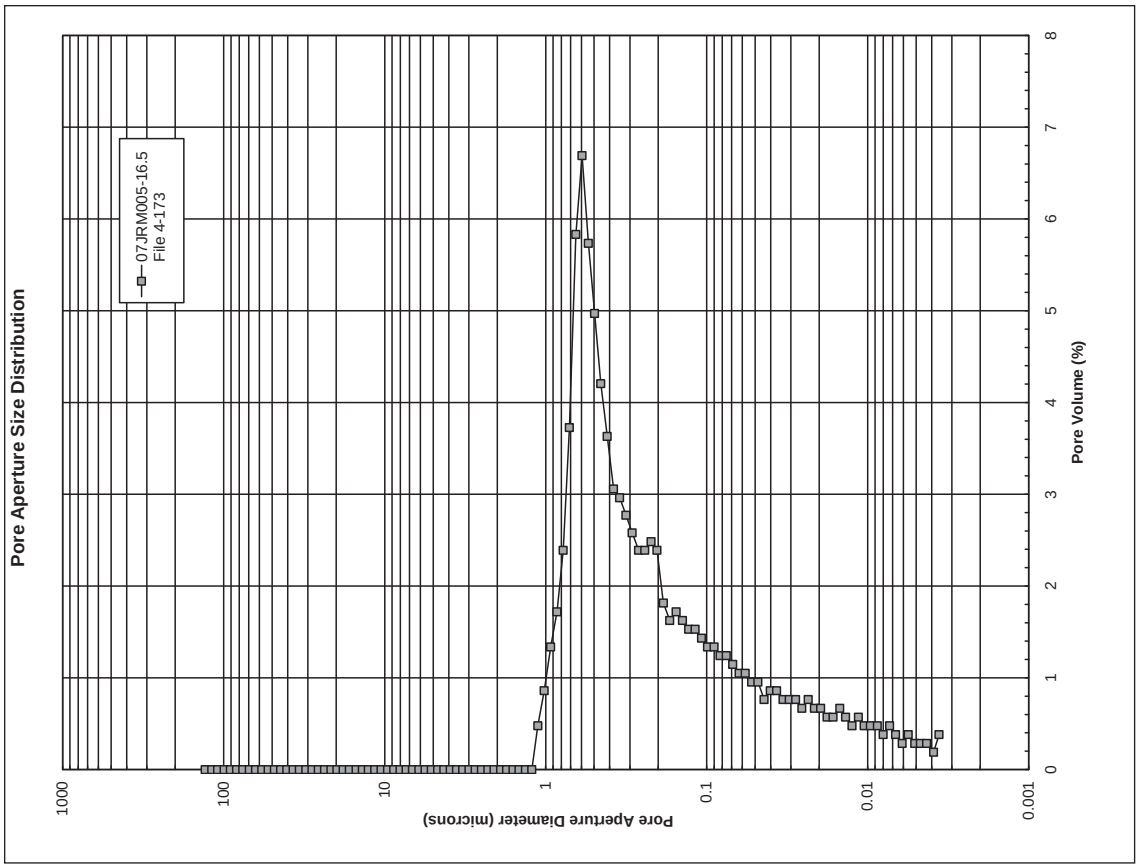

Figure 10c. Pore aperture size for sample 07JRM005 – 16.5.

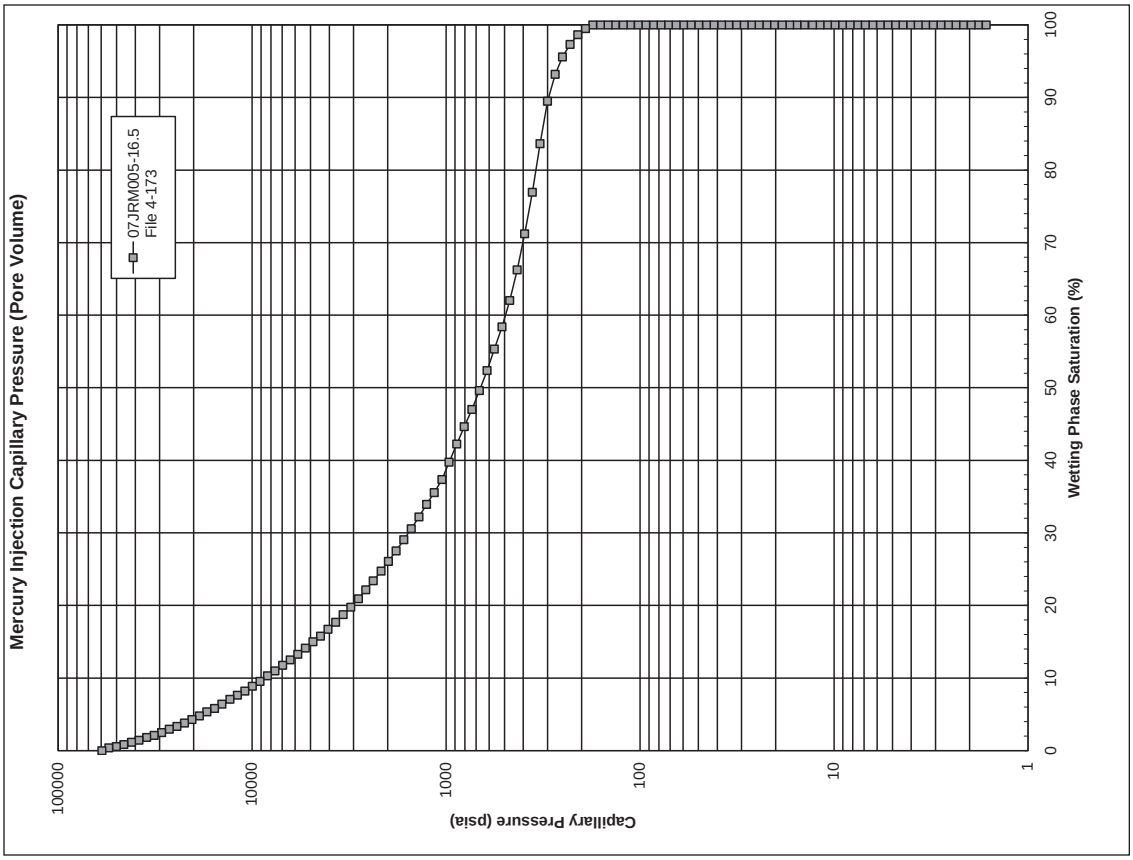

Figure 10b. MICP pore volume for sample 07JRM005 – 16.5.

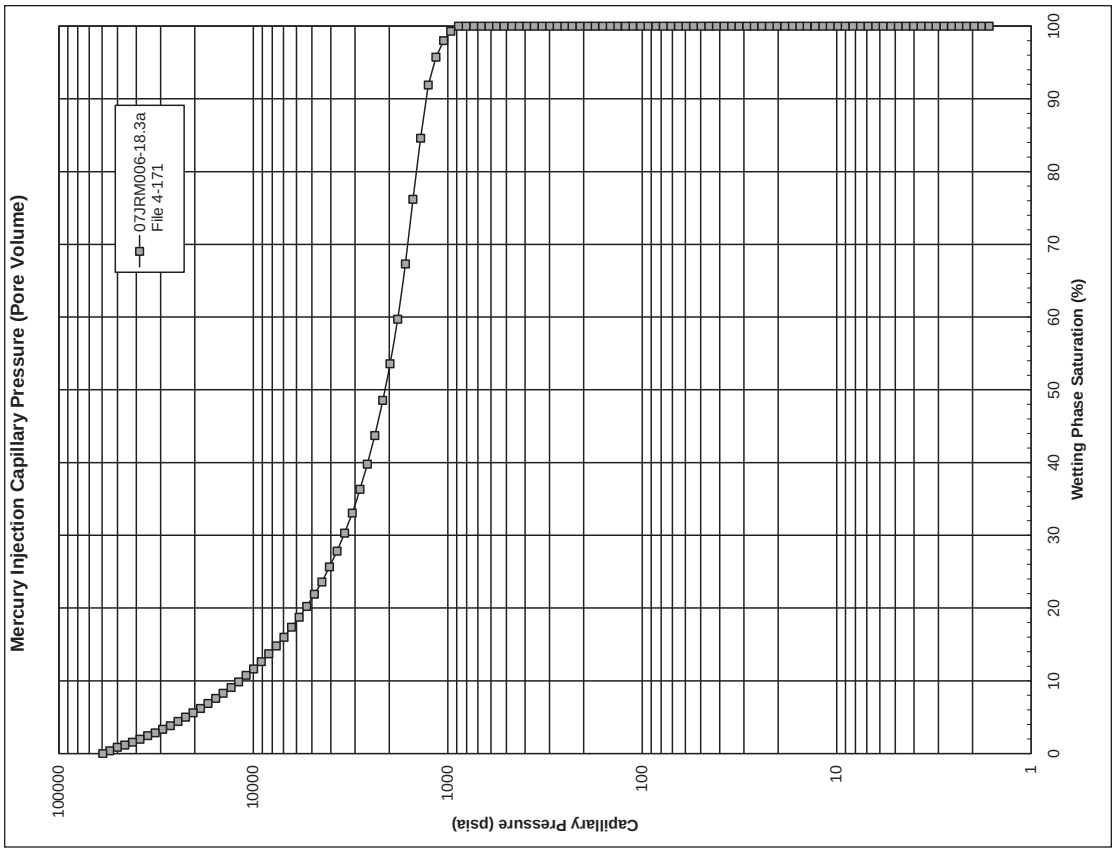

Figure 11b. MICP pore volume for sample 07JRM006 – 18.3a.

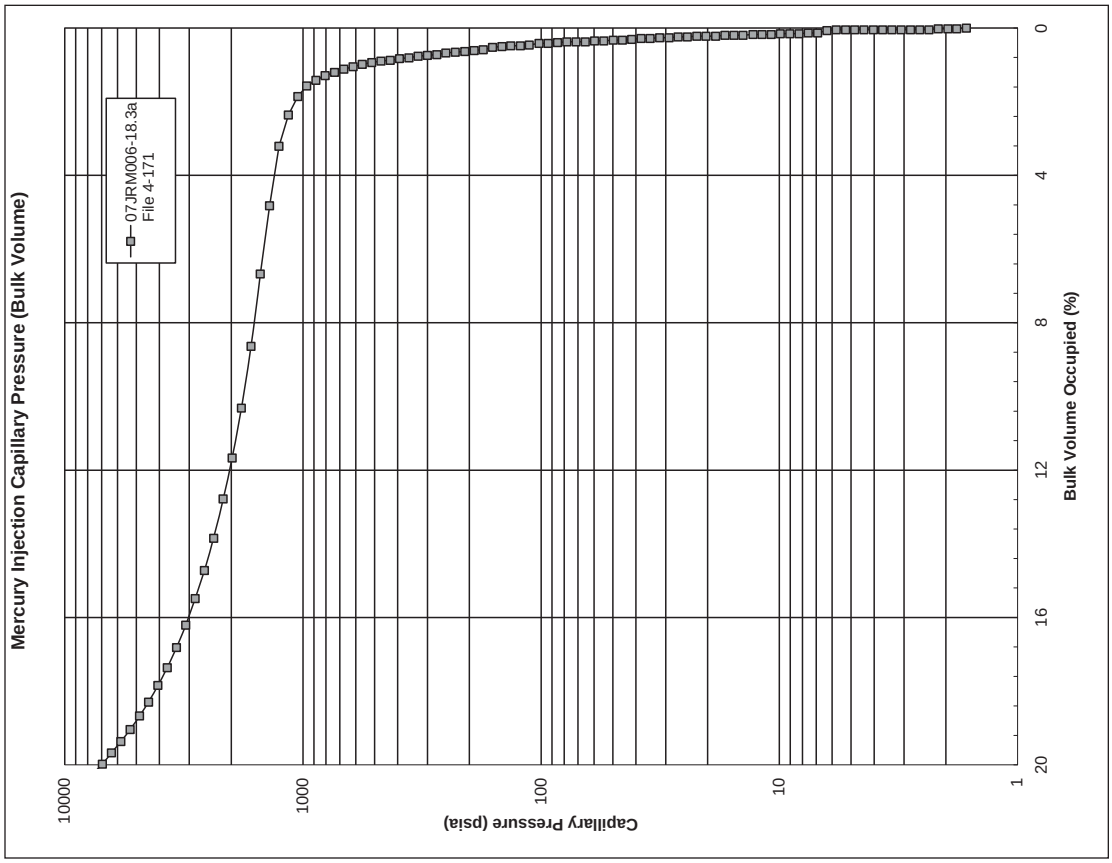

Figure 11a. MICP bulk volume for sample 07JRM006 – 18.3a.

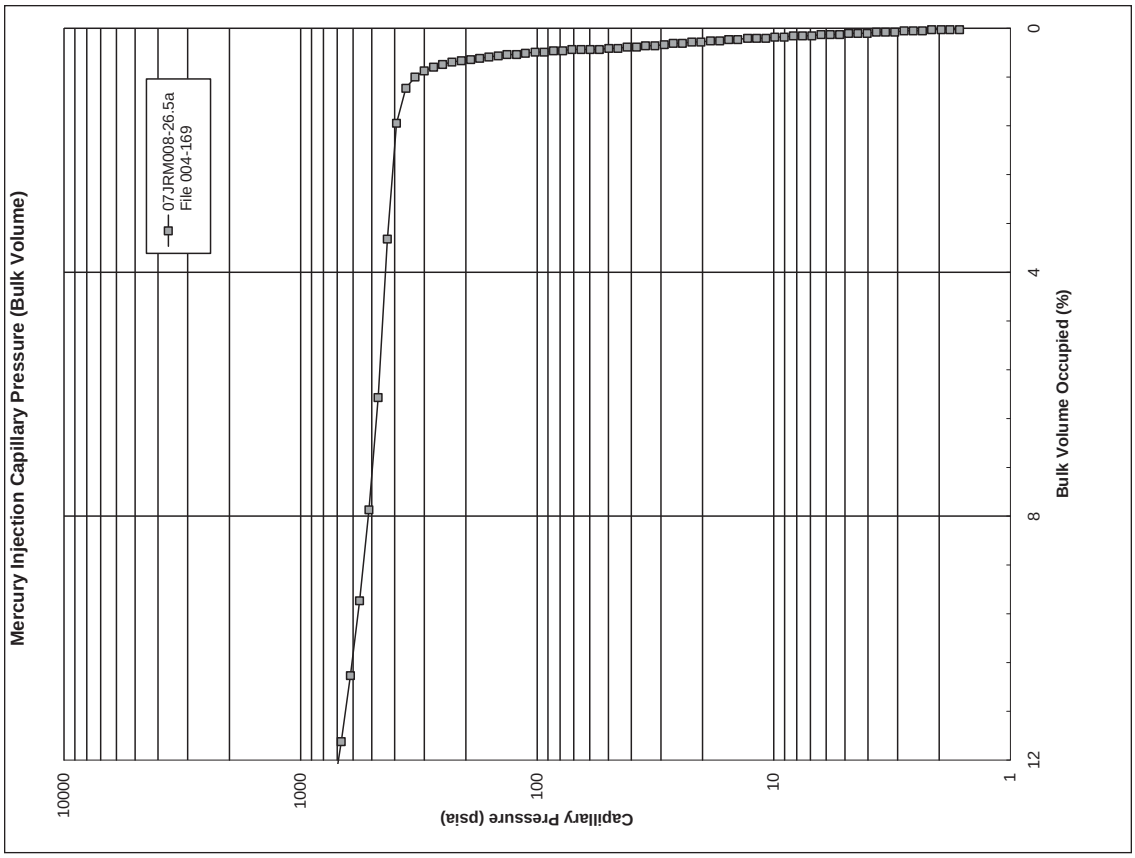

Figure 12a. MICP bulk volume for sample 07JRM008 – 26.5a.

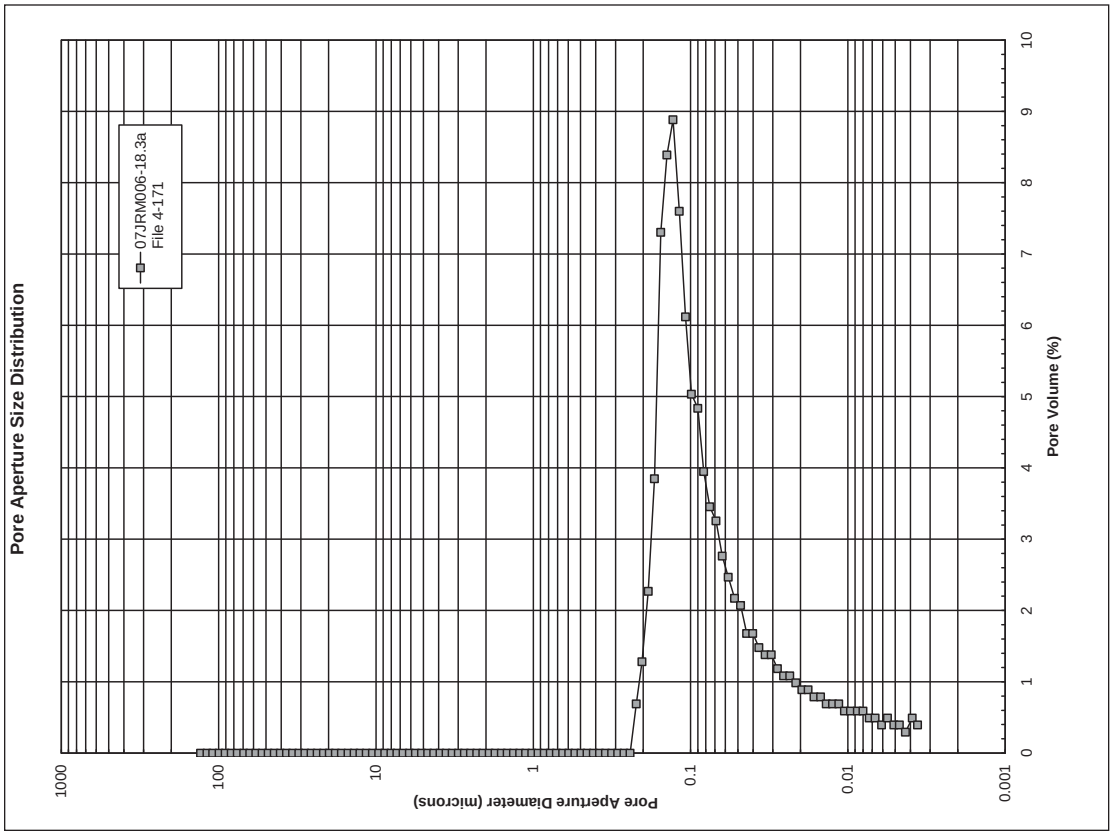

Figure 11c. Pore aperture size for sample 07JRM006 – 18.3a.

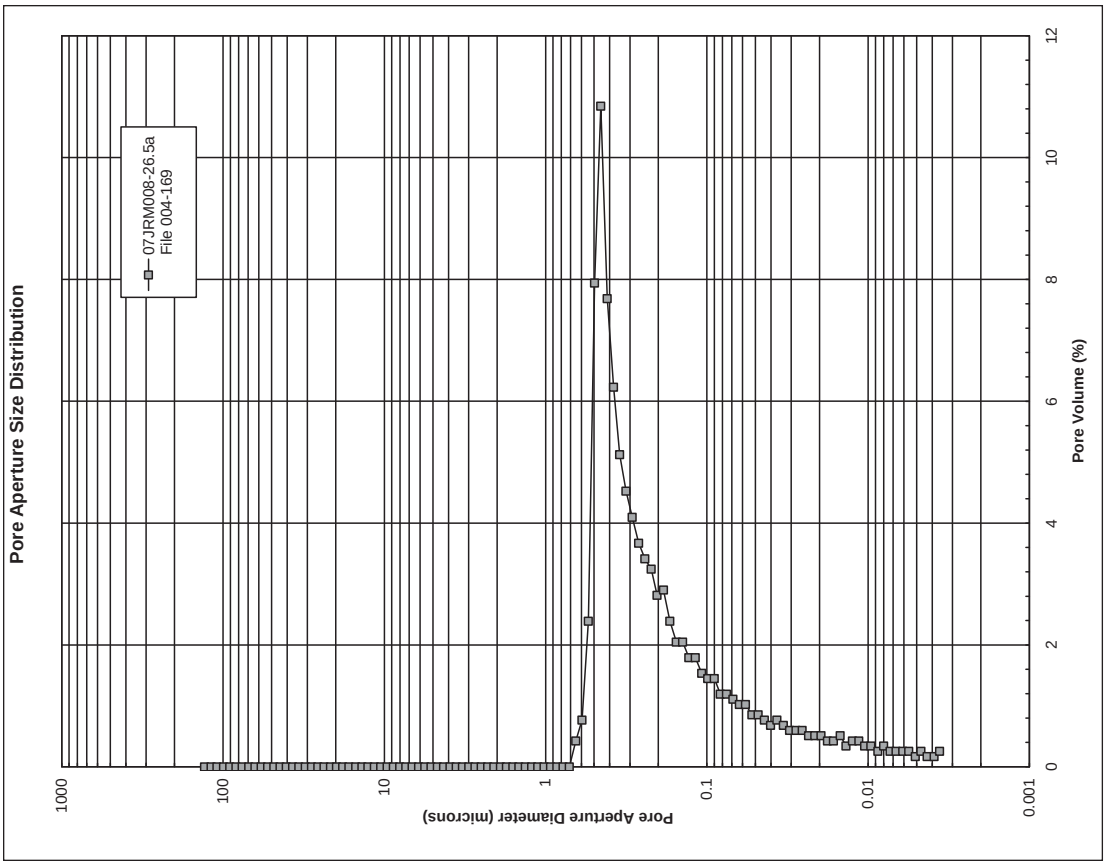

Figure 12c. Pore aperture size for sample 07JRM008 – 26.5a.

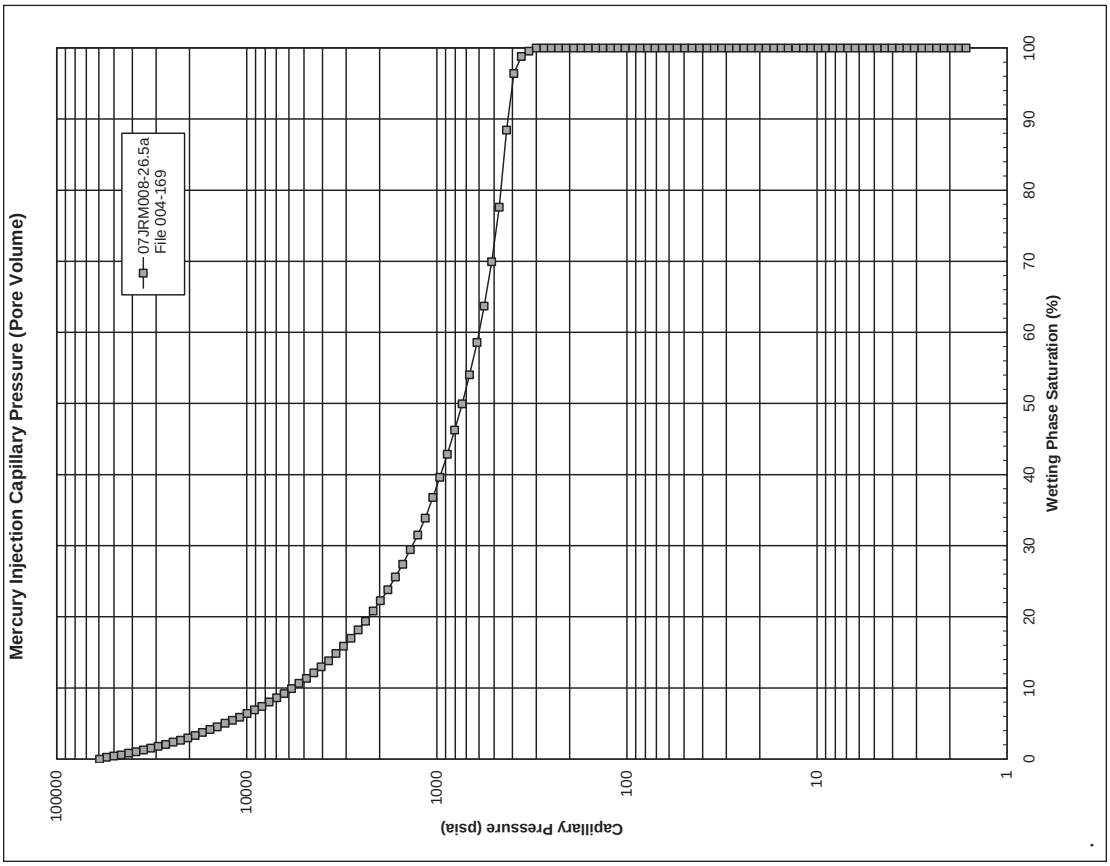

Figure 12b. MICP pore volume for sample 07JRM008 – 26.5a

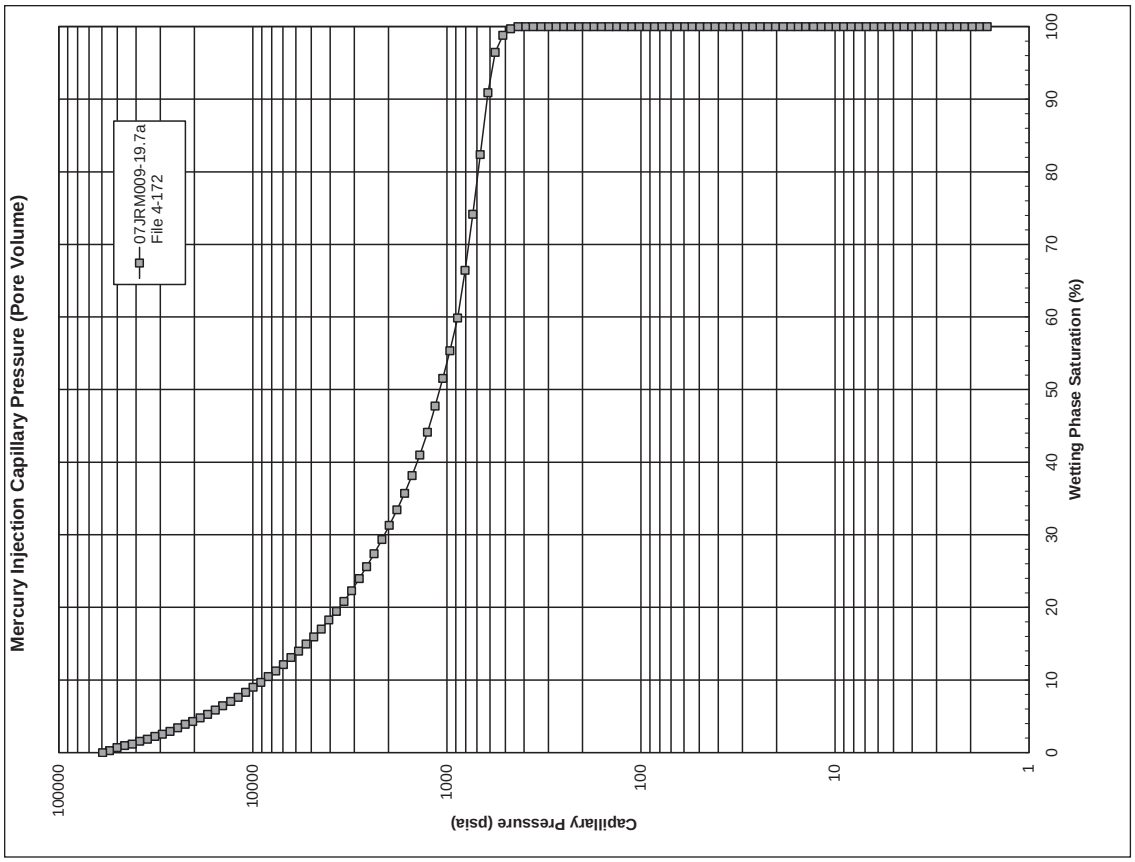

Figure 13b. MICP pore volume for sample 07JRM009 – 19.7a.

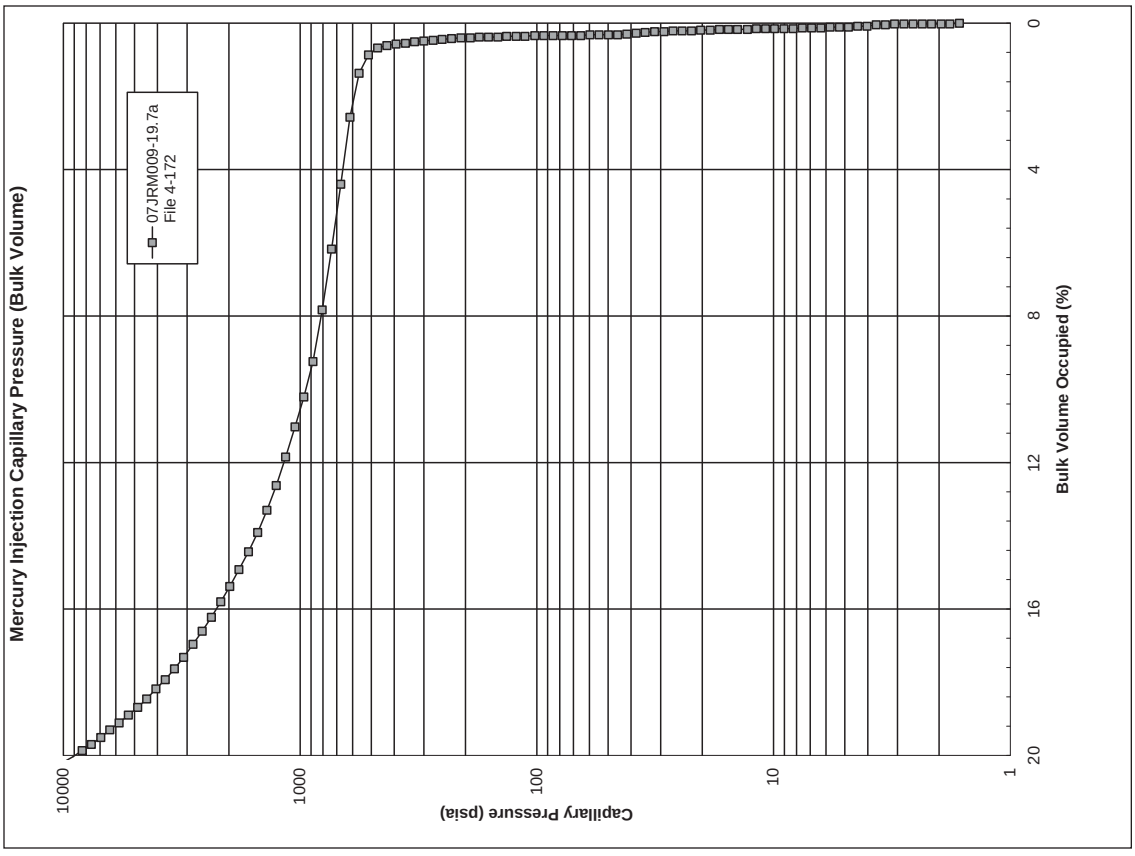

Figure 13a. MICP bulk volume for sample 07JRM009 – 19.7a.

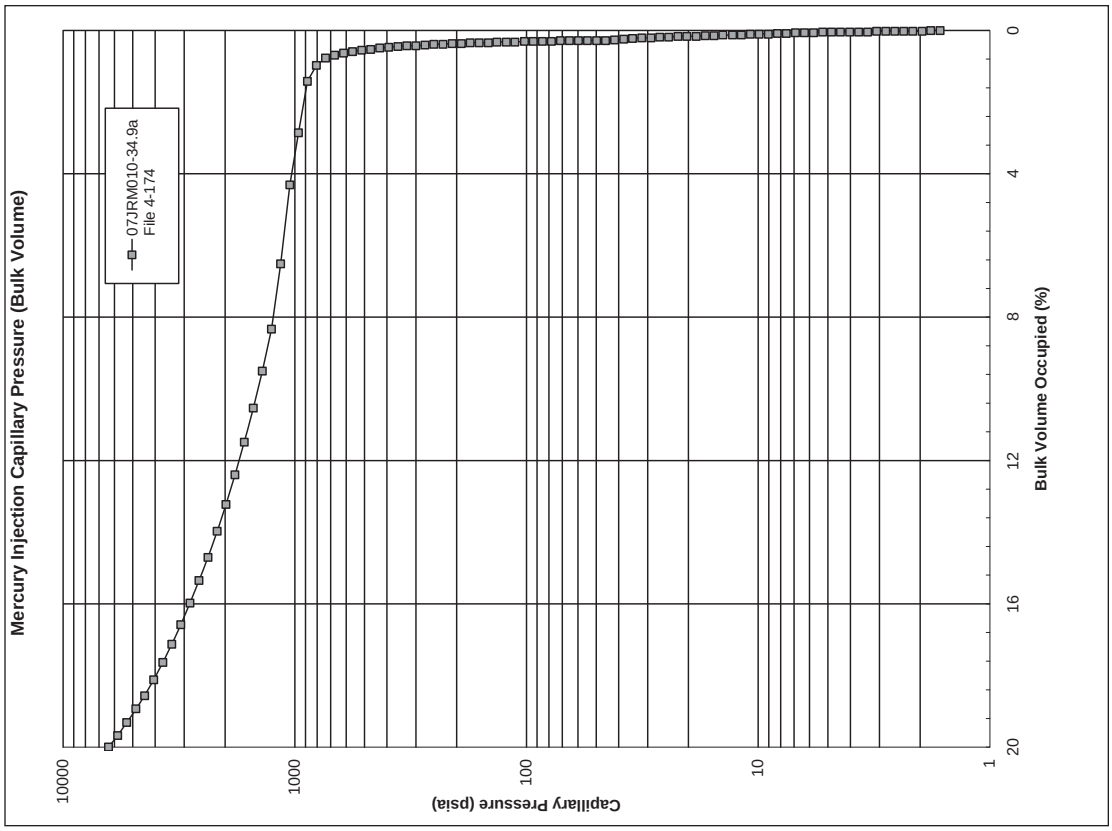

Figure 14a. MICP bulk volume for sample 07JRM010 – 34.9a.

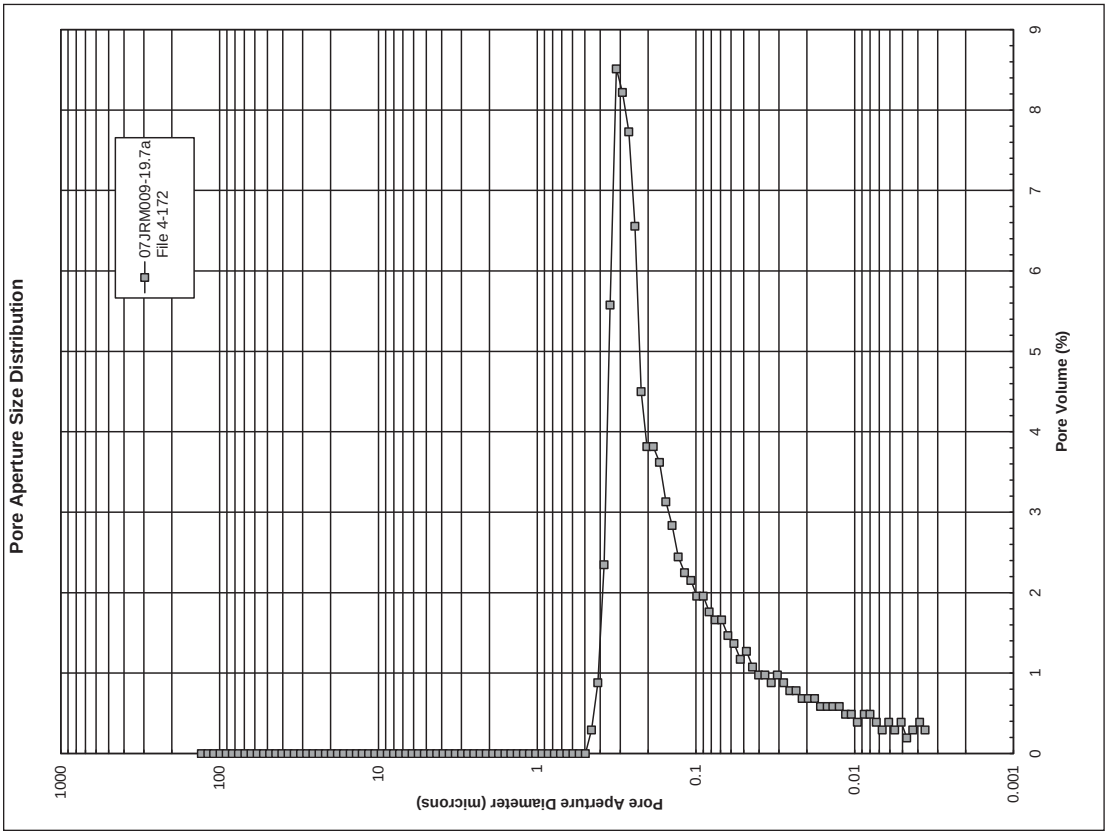

Figure 13c. Pore aperture size for sample 07JRM009 – 19.7a.

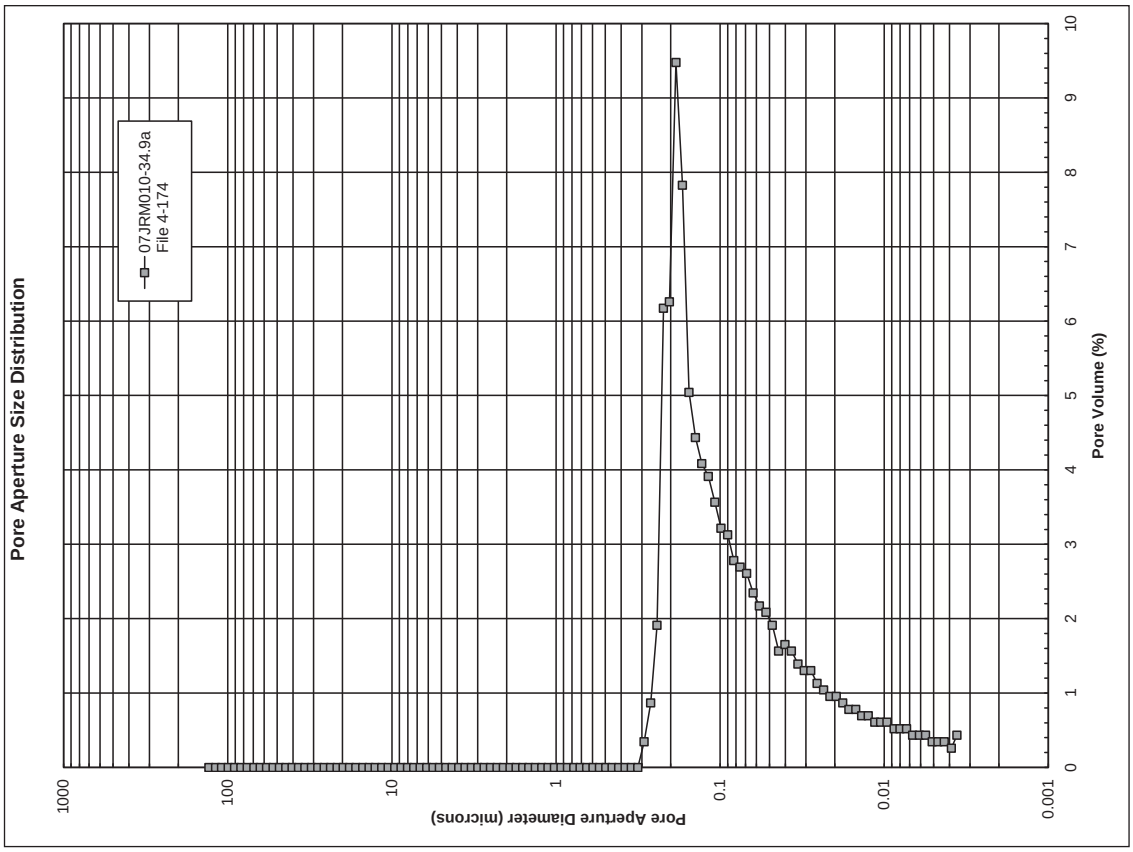

Figure 14c. Pore aperture size for sample 07JRM010 – 34.9a.

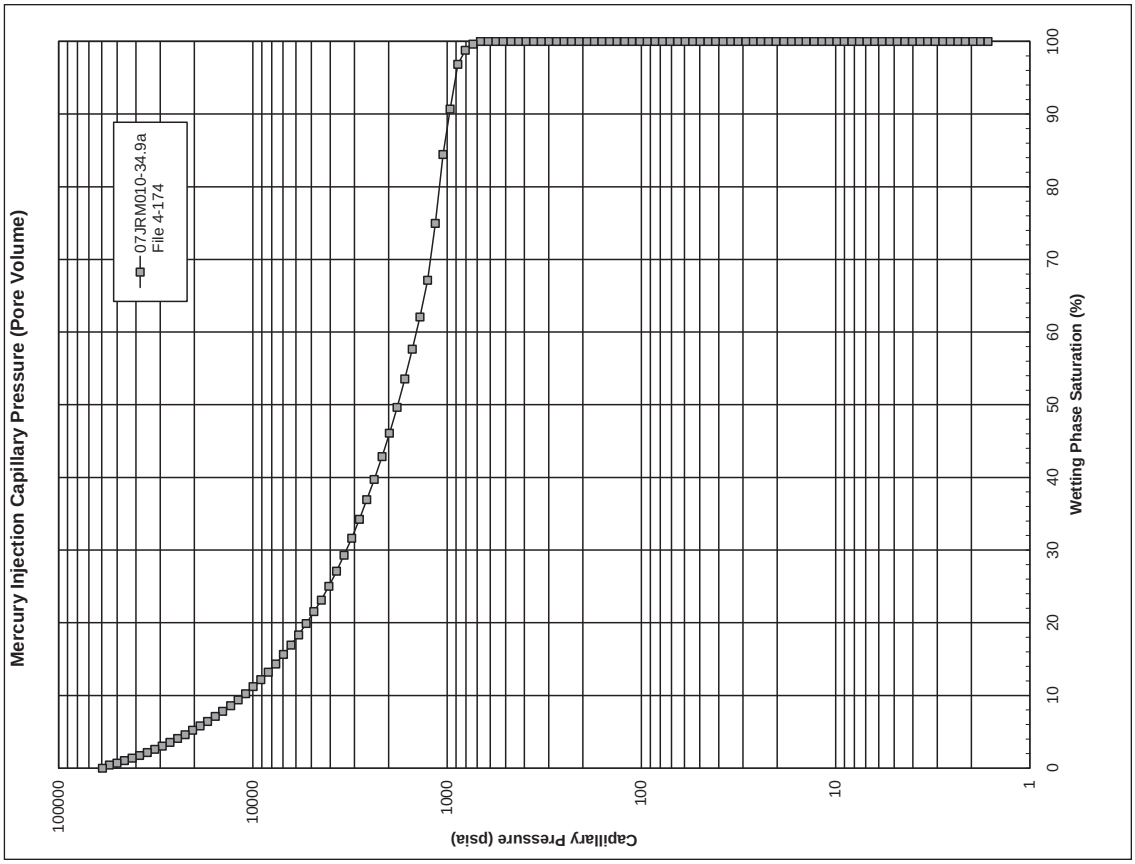

Figure 14b. MICP pore volume for sample 07JRM010 – 34.9a.

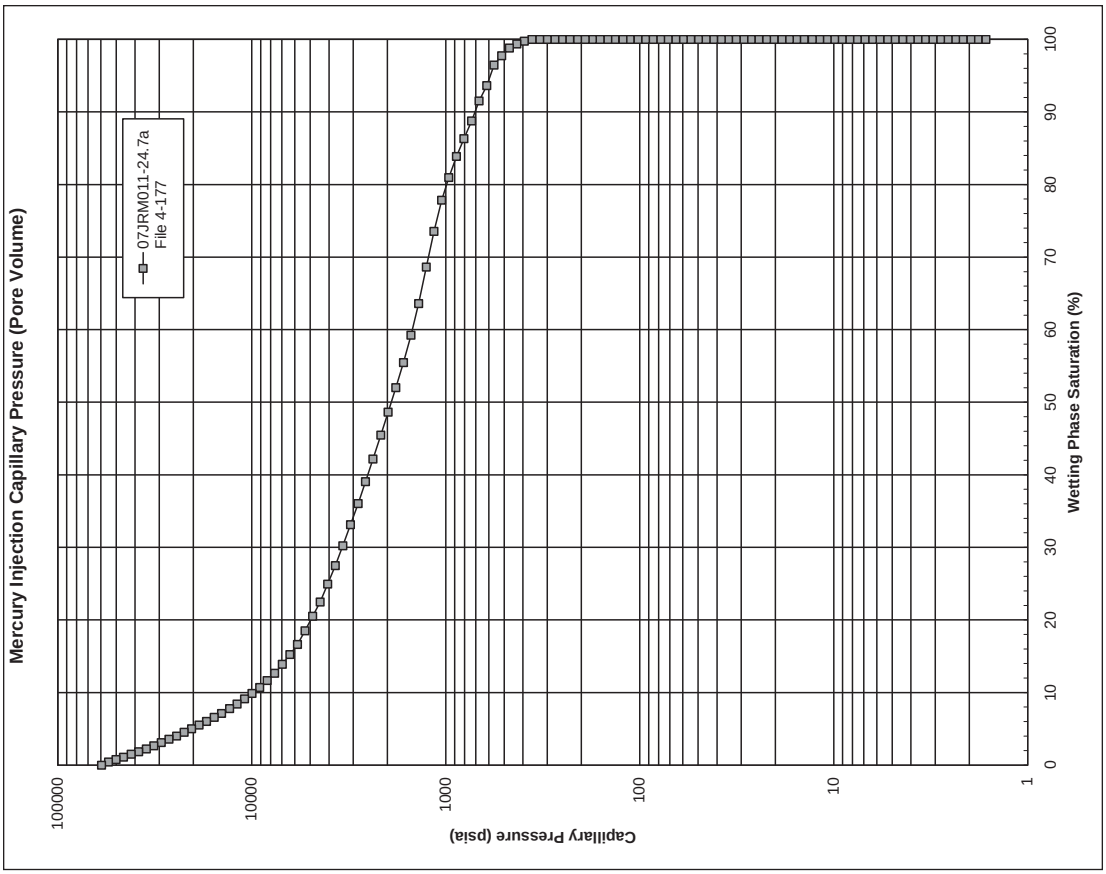

Figure 15b. MICP pore volume for sample 07JRM011 – 24.7a.

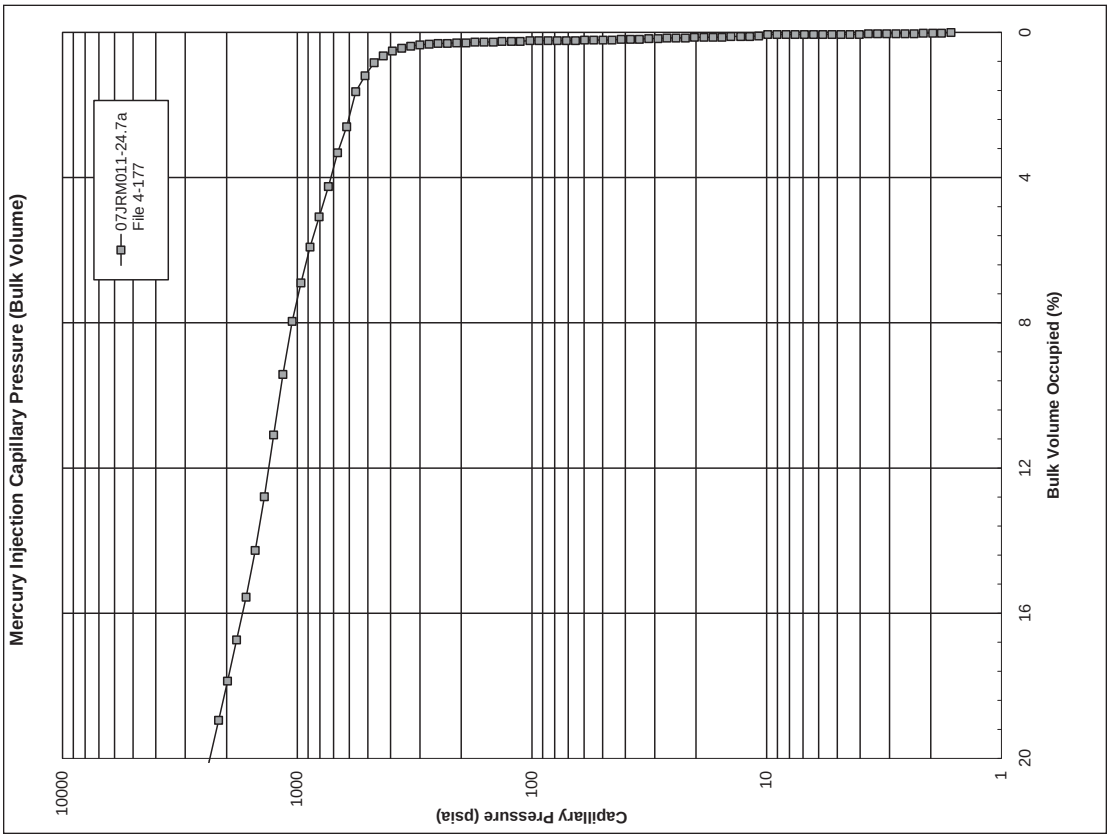

Figure 15a. MICP bulk volume for sample 07JRM011 – 24.7a.

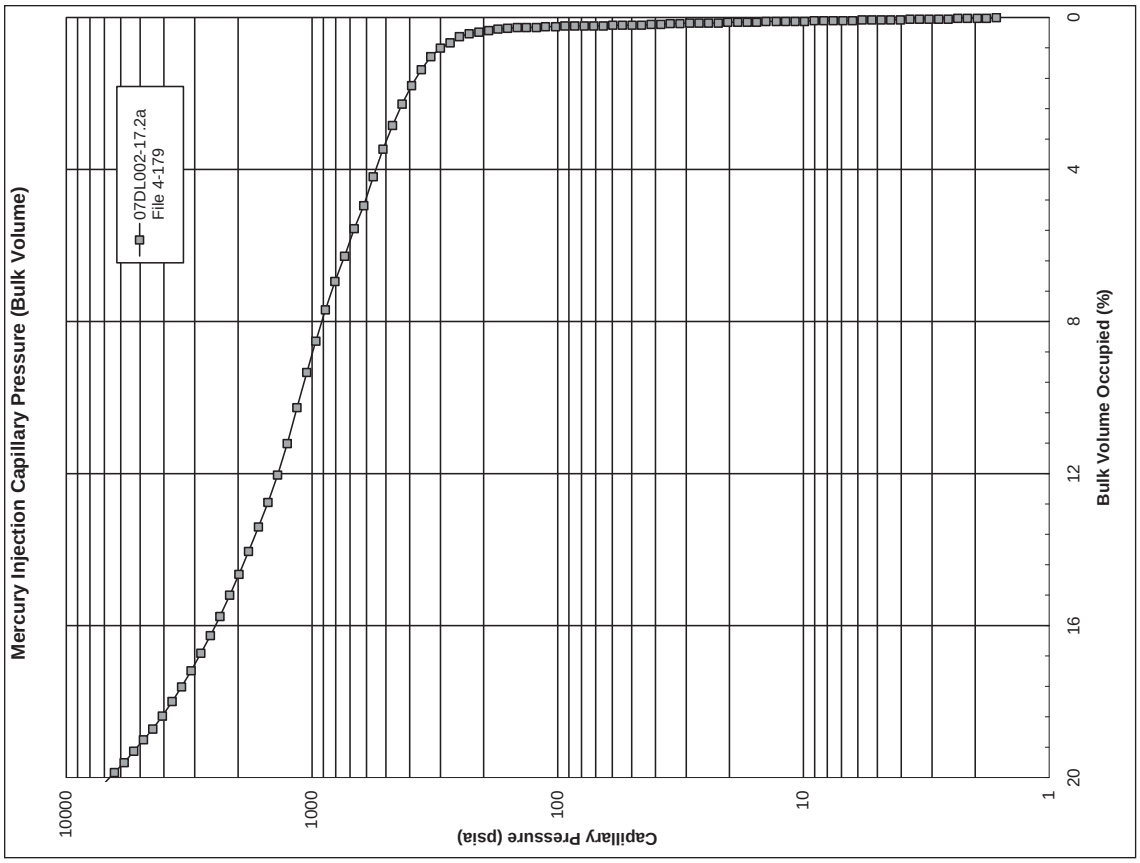

Figure 16a. MICP bulk volume for sample 07DL002 – 17.2a.

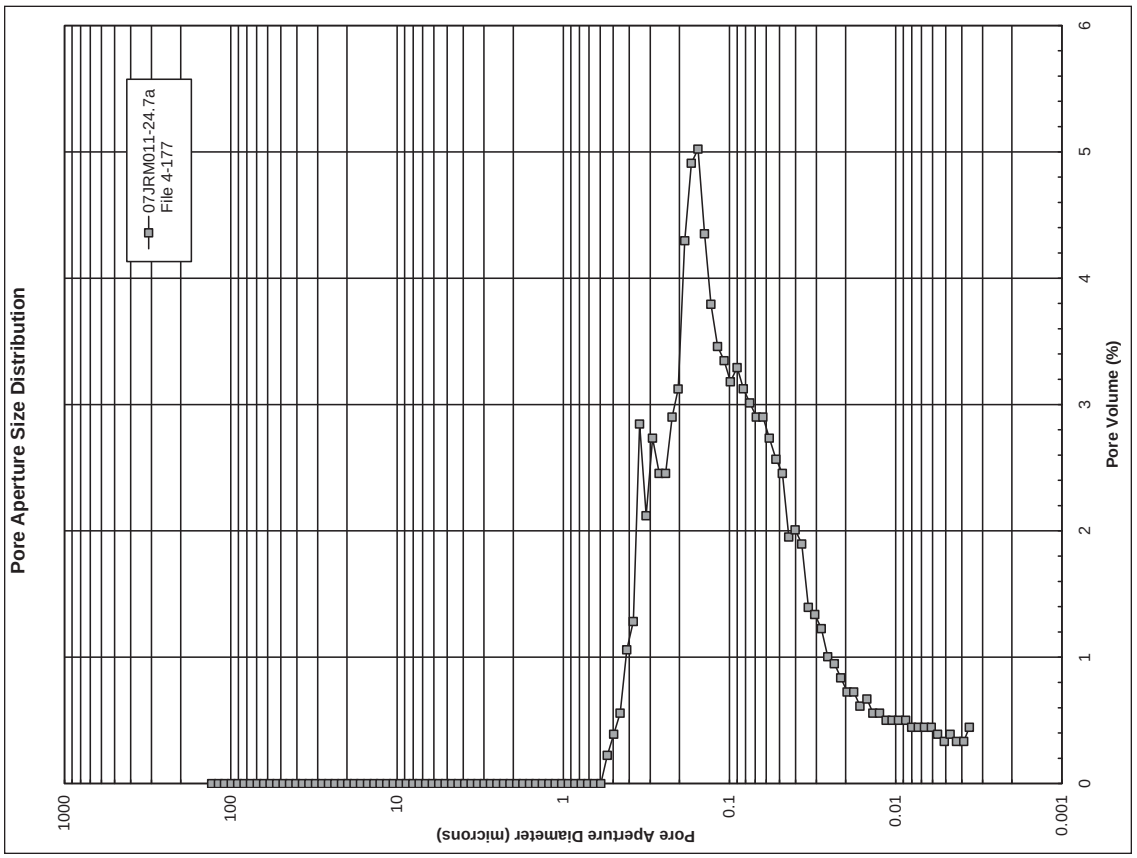

Figure 15c. Pore aperture size for sample 07JRM011 – 24.7a.

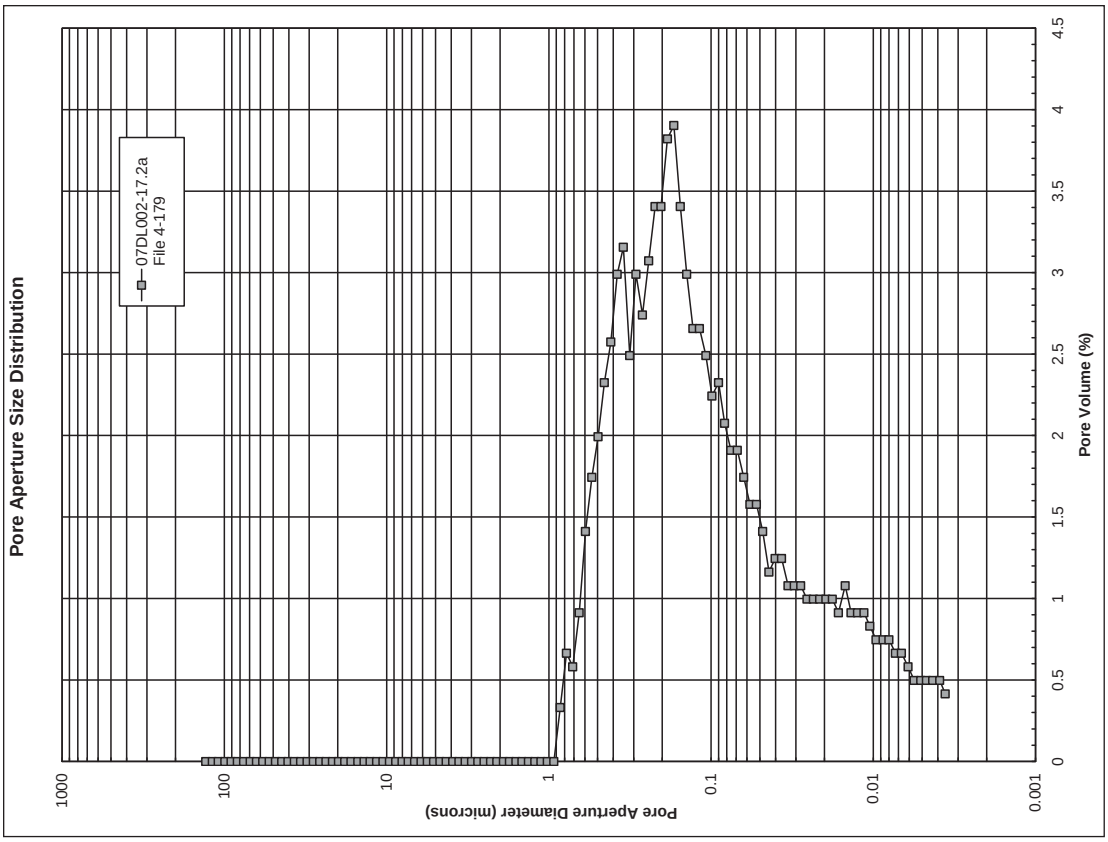

Figure 16c. Pore aperture size for sample 07DL002 – 17.2a.

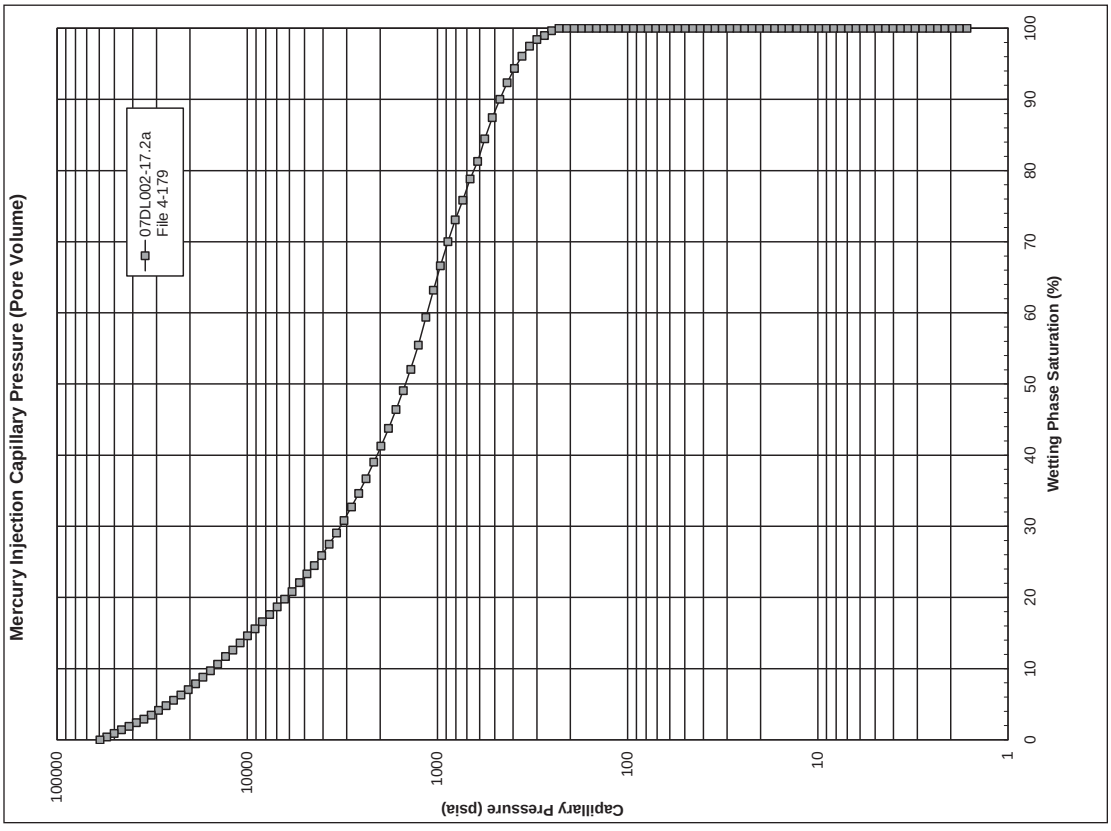

Figure 16b. MICP pore volume for sample 07DL002 – 17.2a.

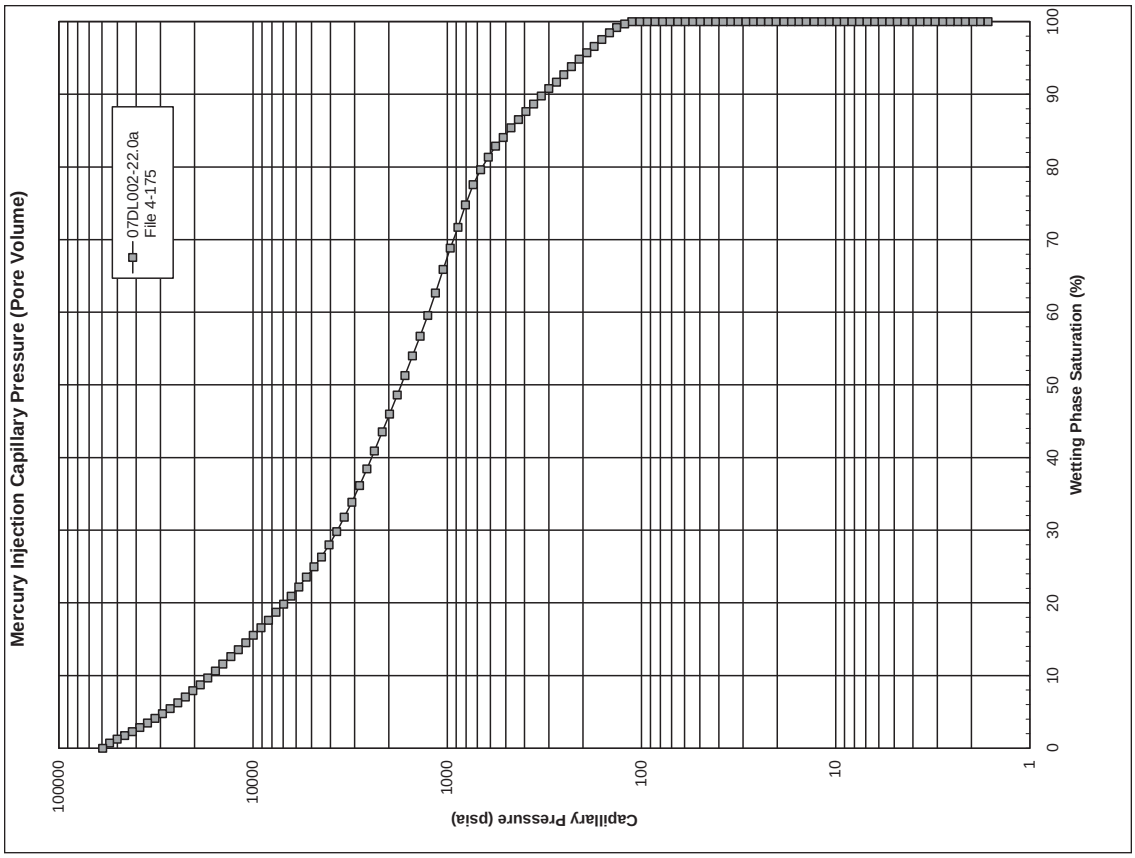

Figure 17b. MICP pore volume for sample 07DL002 – 22.0a.

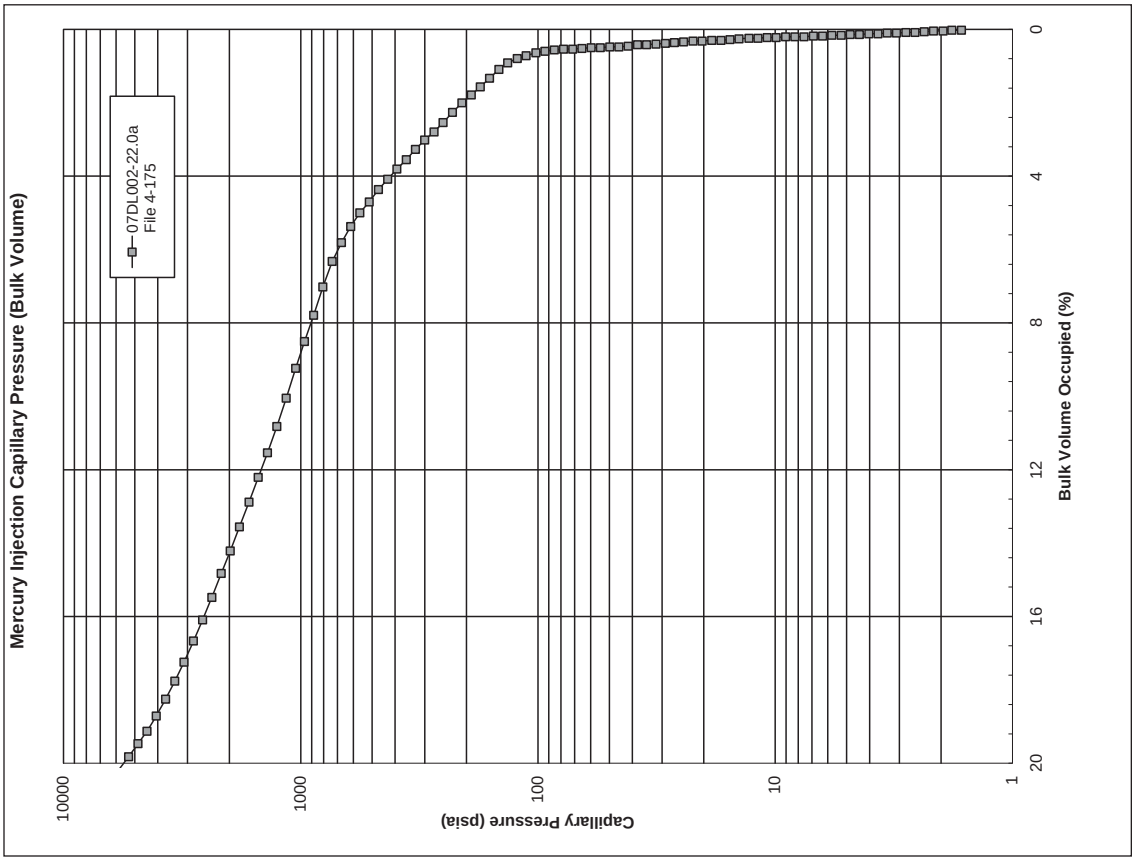

Figure 17a. MICP bulk volume for sample 07DL002 – 22.0a.

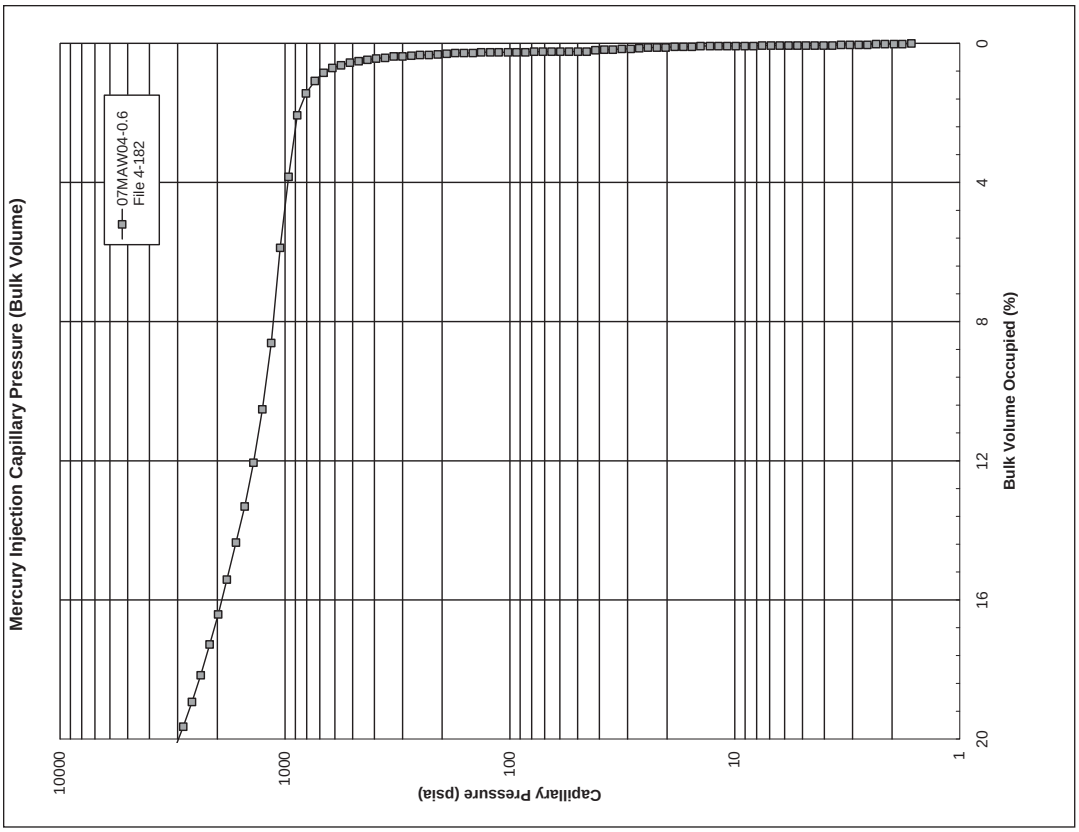

Figure 18a. MICP bulk volume for sample 07MAW04 – 0.6.

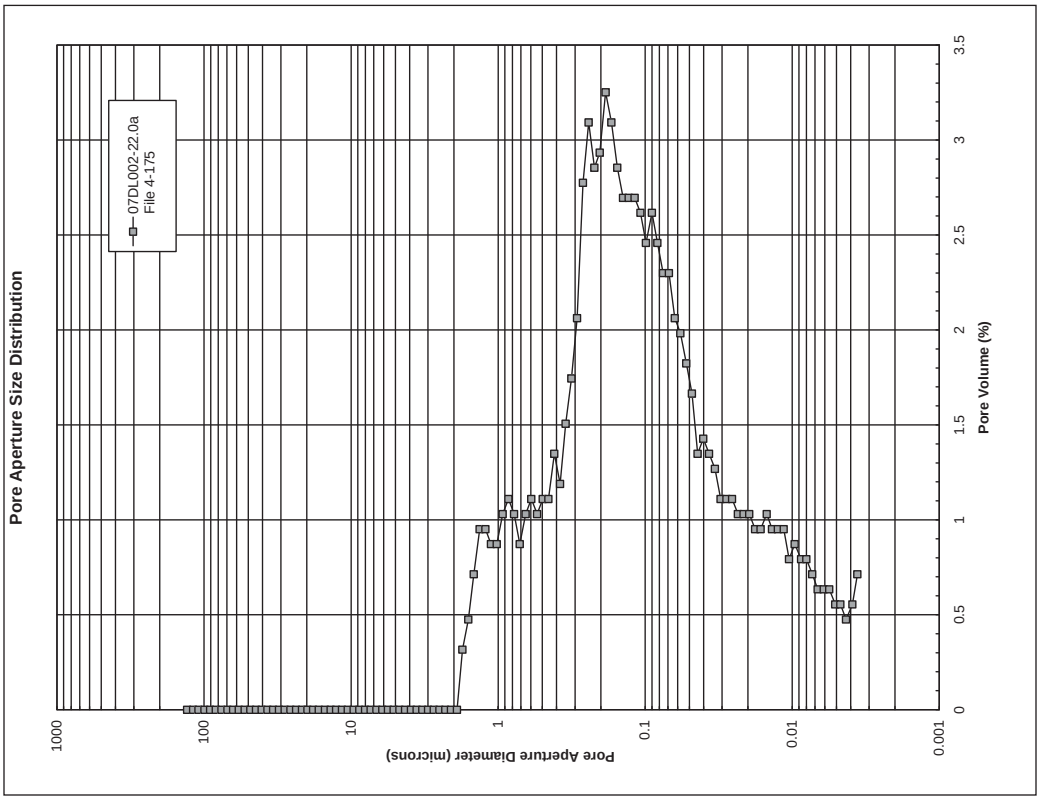

Figure 17c. Pore aperture size for sample 07DL002 – 22.0a.

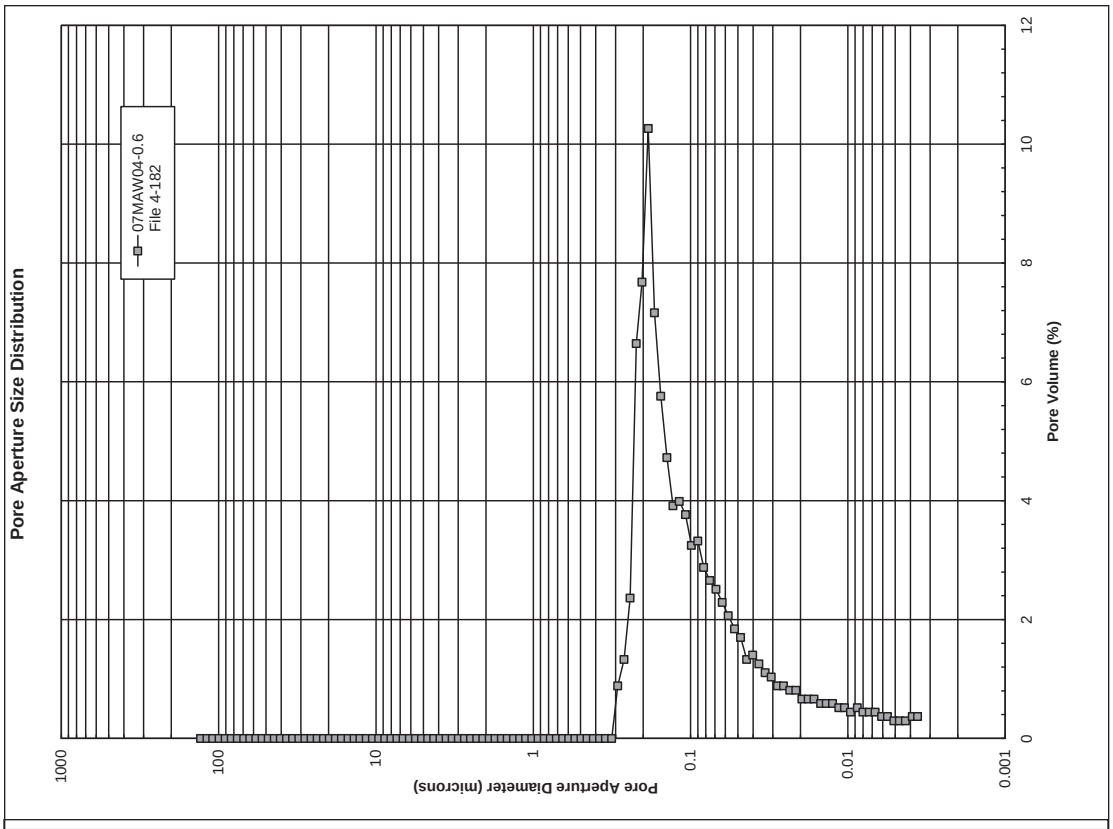

Figure 18c. Pore aperture size for sample 07MAW04 – 0.6.

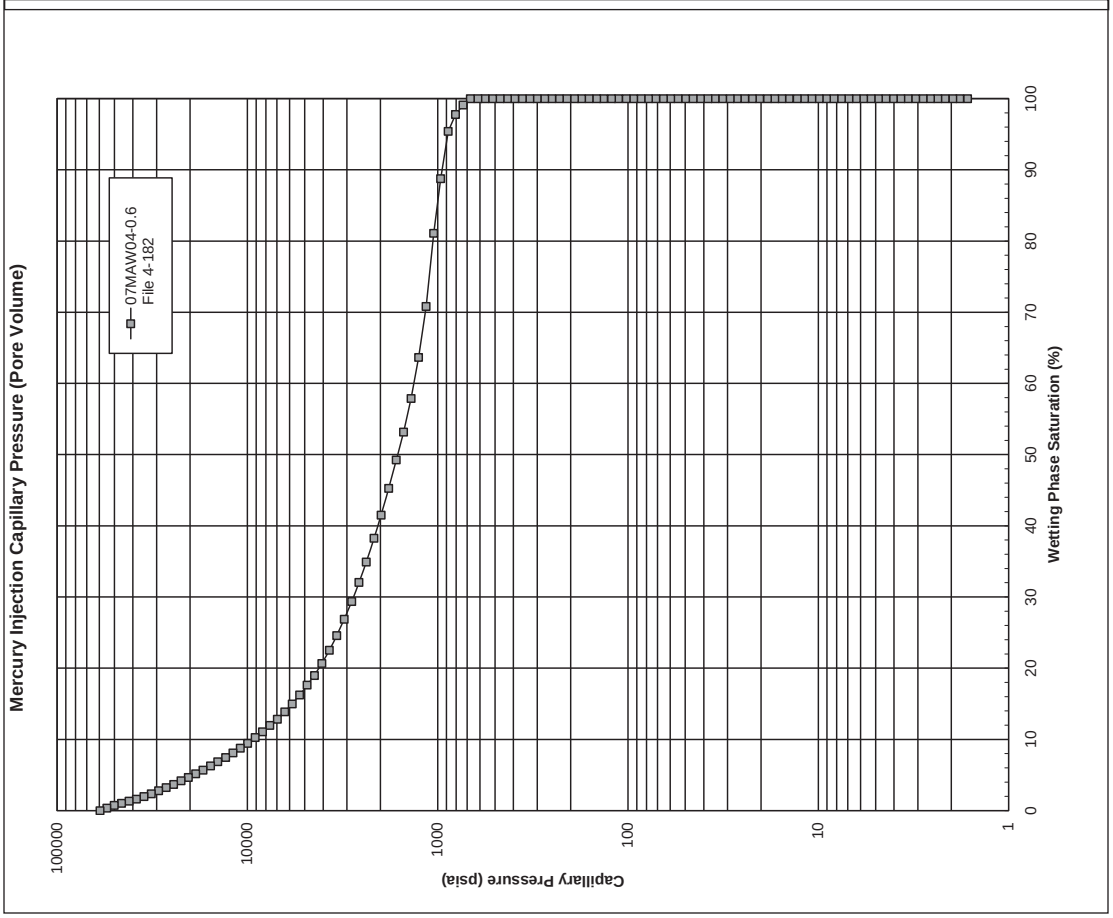

Figure 18b. MICP pore volume for sample 07MAW04 – 0.6.

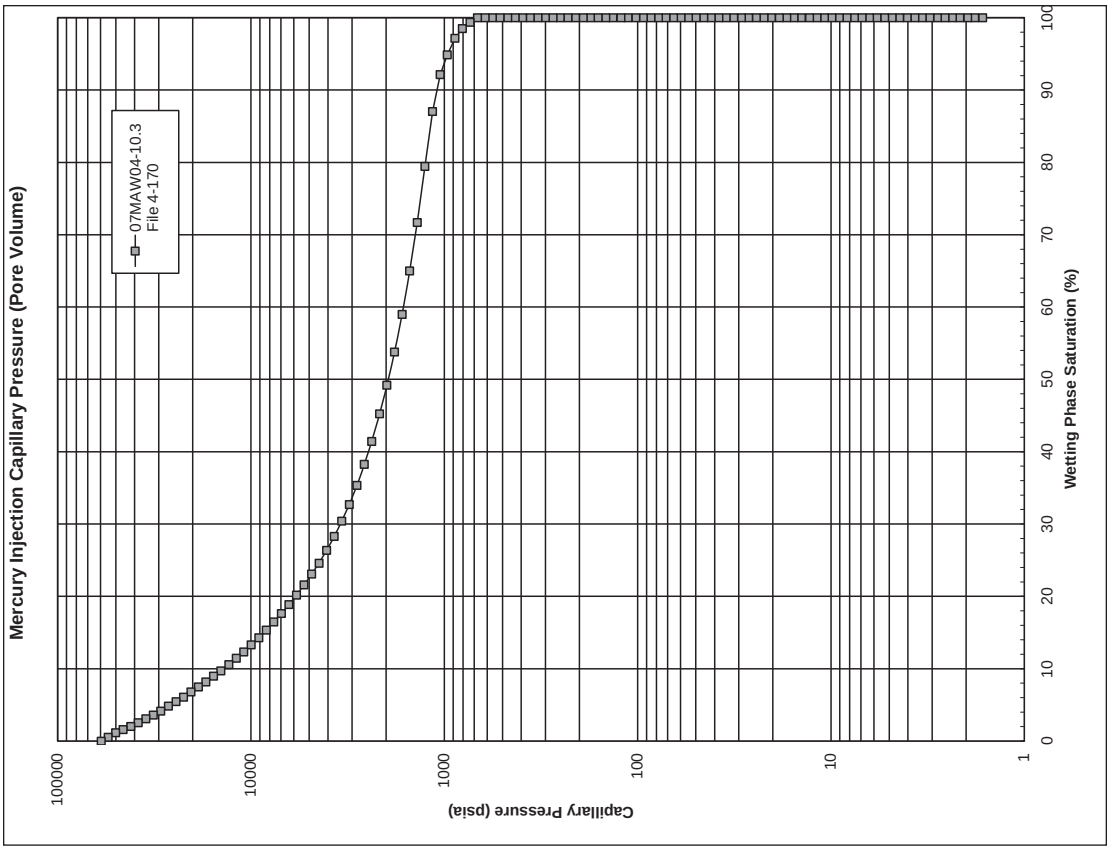

Figure 19b. MICP pore volume for sample 07MAW04 – 10.3.

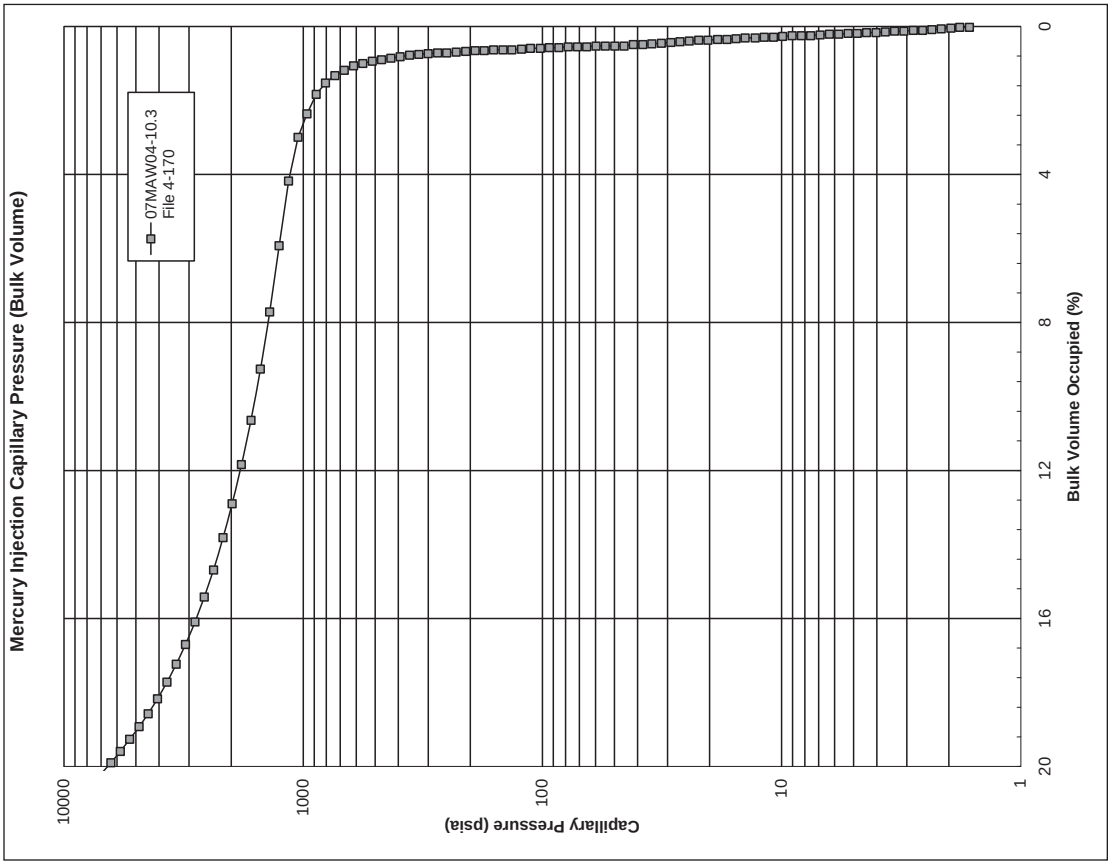

Figure 19a. MICP bulk volume for sample 07MAW04 – 10.3.

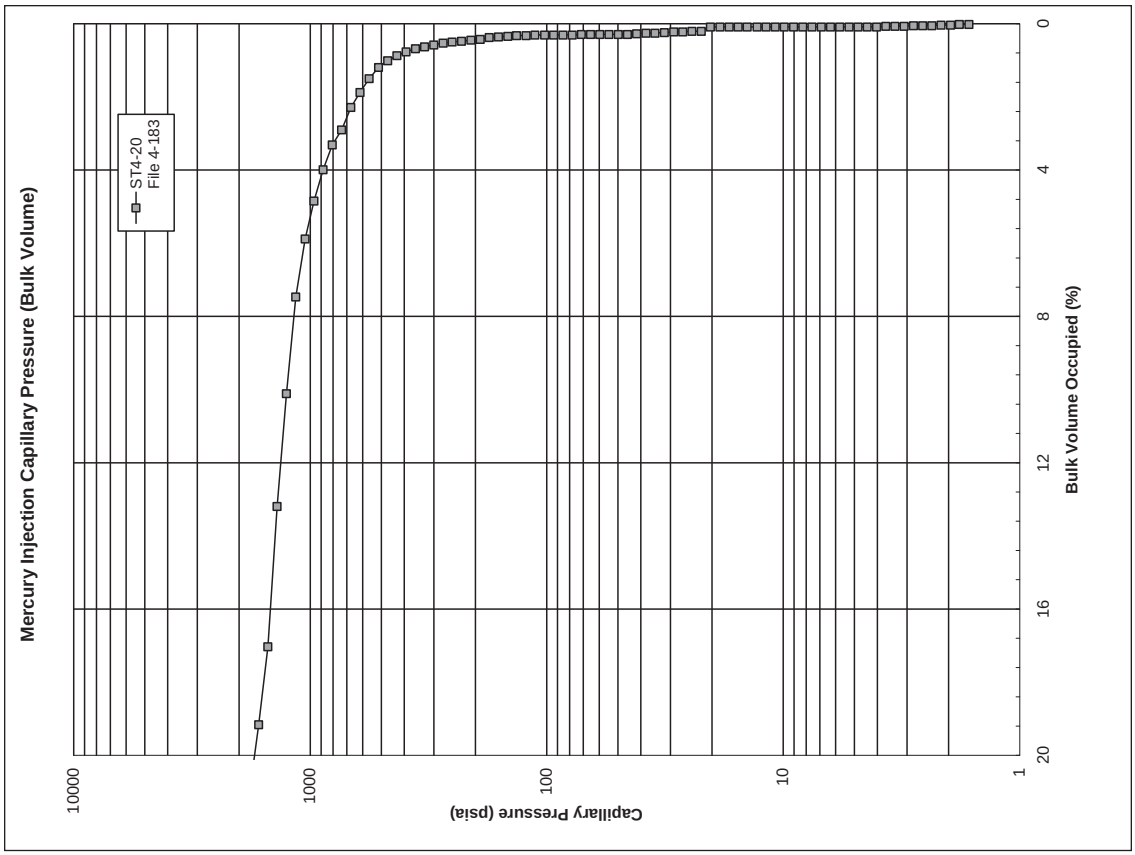

Figure 20a. MICP bulk volume for sample ST4 – 20.

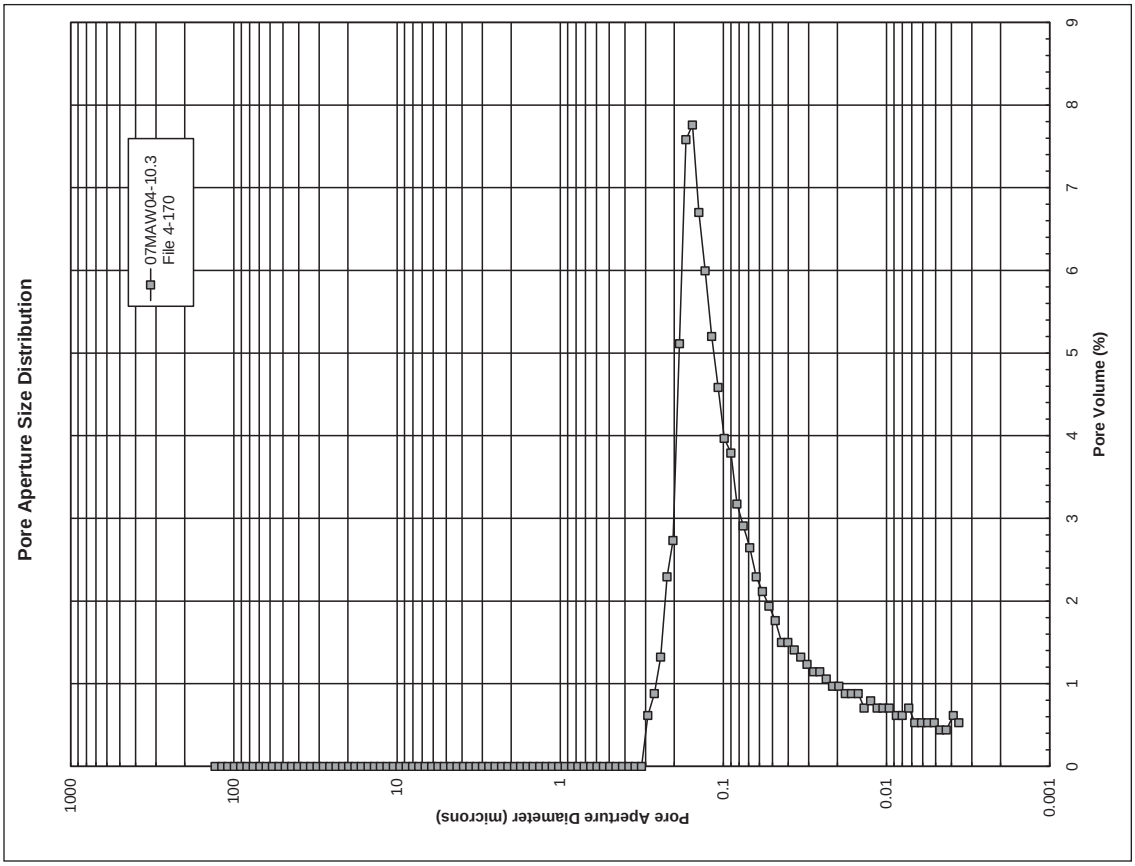

Figure 19c. Pore aperture size for sample 07MAW04 – 10.3.

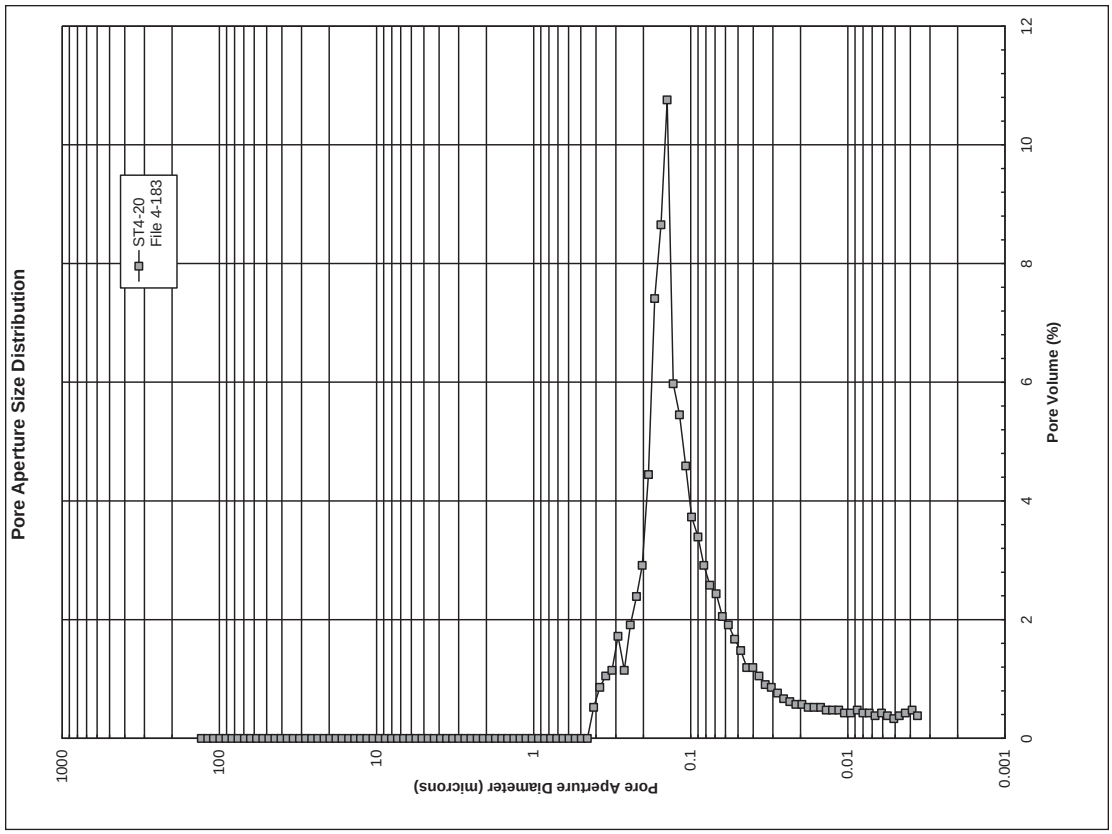

Figure 20c. Pore aperture size for sample ST4 – 20.

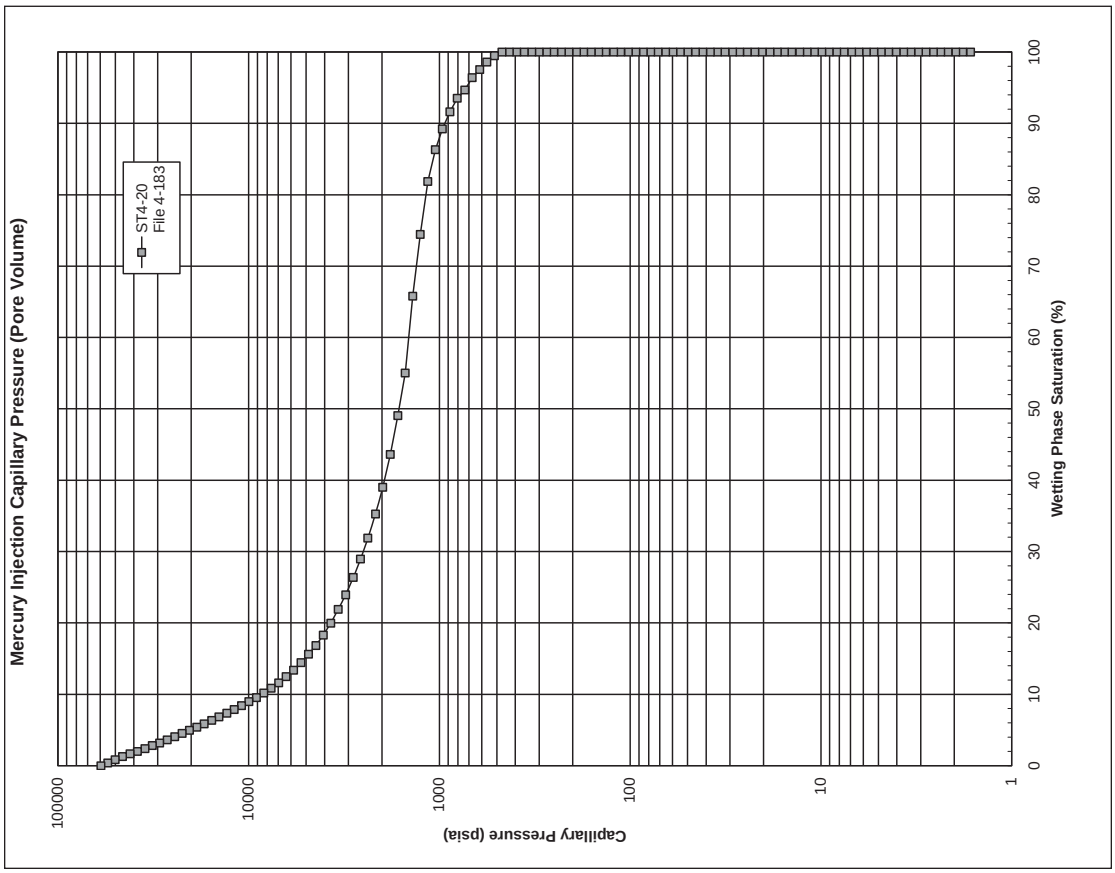

Figure 20b. MICP pore volume for sample ST4 – 20.

Table 1. Summary of MICP samples.

Sample	Formation	**Latitude** (base of measured section)	**Longitude** (base of measured section)	Sample Description
07JRM002 – 3.5a	Beluga Formation	59.69358	-151.30280	Shale, organic-rich; black, very fissile to thinly layered;1–2 mm coaly layers
07JRM003 – 11.0a	Beluga Formation	59.69380	-151.31266	Sandstone, very fine to occasionally fine grained; medium to light gray; well compacted; common dark rock fragments; minor to moderate mica; slight to moderate matrix?; minor visible pore space
07JRM005 – 9.1a	Beluga Formation	59.69517	-151.30707	Sandstone, very fine to occasionally medium grained; clay matrix support 95%; common dark grains; gravity flow fabric
07JRM005 – 16.5	Beluga Formation	59.69522	-151.30672	Sandstone, very fine grained, silty; laminated with very-fine to fine-grained sandstone; slightly argillaceous; medium gray; common organics and mica with random orientation
07JRM006 – 18.3a	Beluga Formation	59.69522	-151.30672	Siltstone, very argillaceous; trace very fine sand; medium gray; common coaly organic fragments; random to local alignment
07JRM008 – 26.5a	Beluga Formation	59.69620	-151.30368	Siltstone, slightly argillaceous; light to medium gray; thin organics on bedding surfaces
07JRM009 – 19.7a	Beluga Formation	59.70012	-151.29219	Siltstone, moderately sandy (very fine to fine sand), argillaceous; light to medium gray; medium to coarse sand size rounded organics; random fabric (gravity flow?)
07DL002 – 17.2a	Beluga Formation	59.65990	-151.66521	Siltstone, argillaceous; light to medium gray; minor mica; very minor small organics (similar to 07JRM011 – 24.7a)
07DL002 – 22.0a	Beluga Formation	59.65990	-151.66521	Siltstone, slightly sandy (very fine); laminated with argillaceous siltstone; medium gray; common grain size organics; pebbly appearance
07MAW04 – 0.6	Beluga Formation	59.67557	-151.71409	Claystone, silty; medium gray; common organics (plant debris approximately 3 mm) with random orientation; siltstone present as burrow fill (?) or due to soft sediment deformation (?)
07MAW04 – 10.3	Beluga Formation	59.67557	-151.71409	Siltstone, very argillaceous to very silty claystone; medium to light gray with some iron banding; some organics; possible small root structures (outcrop?)
ST4 – 20	Sterling Formation	60.08353	-151.62886	Claystone, silty; faint, thin laminations including some siltstone; light gray
07JRM010 – 34.9a	Beluga Formation	59.69879	-151.29545	Claystone, silty to very silty; minor very fine sand; light gray; small burrows (?)
07JRM011 – 24.7a	Sterling Formation	59.77030	-151.12128	Siltstone (very fine silt), argillaceous; light gray/very minor small organics

Table 2. Summary of pore system and capillary properties.

Sample Depth (ft)	Porosity (%)	Kair (md)	Median Aperture	Capillary Pressure at Various Mercury Saturation entry	5%	7.5%	10%
07JRM002 – 3.5a	11.3	0.0141	0.0299	964	1,500	1,735	1,962
07JRM003 – 11.0a	22.9	1.07	0.3717	78	124	138	150
07JRM005 – 9.1a	20.9	0.0856	0.1242	673	970	1,023	1,065
07JRM005 – 16.5	22.1	0.494	0.3213	175	257	279	296
07JRM006 – 18.3a	22.1	0.0682	0.1013	881	1,172	1,243	1,291
07JRM008 – 26.5a	24.0	0.422	0.2900	300	400	411	423
07JRM009 – 19.7a	21.5	0.182	0.1960	430	577	600	621
07JRM010 – 34.9a	23.3	0.0901	0.1188	881	906	940	974
07JRM011 – 24.7a	34.0	0.150	0.1117	359	590	645	708
07DL002 – 17.2a	24.3	0.137	0.1452	229	381	428	470
07DL002 – 22.0a	25.0	0.171	0.1238	112	205	257	322
07MAW04 – 0.6	26.6	0.134	0.1312	673	886	917	949
07MAW04 – 10.3	23.1	0.0808	0.1095	673	960	1,040	1,092
ST4 – 20	35.7	0.215	0.1308	470	725	845	936

Permeability calculated at maximum intrusion
Median aperture size is diameter in microns

Table 3. Summary of height data.

Data Used In Height Plots

Changing any values in green cells will recalculate and replot seal capacity

Assumed water density (g/cc) –	1.016	Gas				Oil			
		Surface Tension –	50	dynes/cm		Surface Tension –	30	dynes/cm	
		Density –	0.28	g/cc		Density –	0.69	g/cc	
			0.1360				0.0816		
		height (ft) =	0.4267	*Capillary Pressure		height (ft) =	0.5780	*Capillary Pressure	

	Capillary pressure (psia)				Height in feet (gas)				Height in feet (oil)			
	0%	5%	7.5%	10%	0%	5%	7.5%	10%	0%	5%	7.5%	10%
07JRM002 – 3.5a	964	1,500	1,735	1,962	411	640	740	837	557	867	1,003	1,134
07JRM003 – 11.0a	78	124	138	150	33	53	59	64	45	72	80	87
07JRM005 – 9.1a	673	970	1,023	1,065	287	414	437	454	389	561	591	616
07JRM005 – 16.5	175	257	279	296	75	110	119	126	101	149	161	171
07JRM006 – 18.3a	881	1,172	1,243	1,291	376	500	530	551	509	677	718	746
07JRM008 – 26.5a	300	400	411	423	128	171	175	180	173	231	238	244
07JRM009 – 19.7a	430	577	600	621	183	246	256	265	249	334	347	359
07JRM010 – 34.9a	881	906	940	974	376	387	401	416	509	524	543	563
07JRM011 – 24.7a	359	590	645	708	153	252	275	302	207	341	373	409
07DL002 – 17.2a	229	381	428	470	98	163	183	201	132	220	247	272
07DL002 – 22.0a	112	205	257	322	48	87	110	137	65	118	149	186
07MAW04 – 0.6	673	886	917	949	287	378	391	405	389	512	530	549
07MAW04 – 10.3	673	960	1,040	1,092	287	410	444	466	389	555	601	631
ST4 – 20	470	725	845	936	201	309	361	399	272	419	488	541
Average	493	690	750	804	210	294	320	343	285	399	434	465

Table 4. MICP data for sample 07JRM002 - 3.5a.

Mercury Injection Capillary Pressure
07JRM002 - 3.5a

Sample Information			
Bulk Volume =	4.7565 cc	Porosity =	11.3% (mercury)
Pore Volume =	0.5363 cc	Permeability =	na
Closure = 5.86 %BV @ 964 psia		Median Pore Aperture = 0.0299 microns (diameter)	

Capillary Pressure (psia)	Pore Aperture Diameter (microns)	Cumulative Bulk Vol. (%)	Wetting Phase Saturation (%)	Incremental Wetting Phase Change (%)	Saturation Change per psia
1.64	130	0.09	100.0	0.00	0.0000
1.80	119	0.14	100.0	0.00	0.0000
1.96	109	0.20	100.0	0.00	0.0000
2.15	99.2	0.26	100.0	0.00	0.0000
2.35	90.8	0.34	100.0	0.00	0.0000
2.57	83.0	0.49	100.0	0.00	0.0000
2.81	75.9	0.63	100.0	0.00	0.0000
3.08	69.3	0.76	100.0	0.00	0.0000
3.37	63.3	0.85	100.0	0.00	0.0000
3.68	58.0	1.08	100.0	0.00	0.0000
4.03	52.9	1.23	100.0	0.00	0.0000
4.41	48.4	1.33	100.0	0.00	0.0000
4.82	44.3	1.47	100.0	0.00	0.0000
5.27	40.5	1.54	100.0	0.00	0.0000
5.77	37.0	1.63	100.0	0.00	0.0000
6.31	33.8	1.79	100.0	0.00	0.0000
6.90	30.9	1.93	100.0	0.00	0.0000
7.55	28.3	2.04	100.0	0.00	0.0000
8.26	25.8	2.17	100.0	0.00	0.0000
9.04	23.6	2.28	100.0	0.00	0.0000
9.89	21.6	2.36	100.0	0.00	0.0000
10.8	19.8	2.45	100.0	0.00	0.0000
11.8	18.1	2.53	100.0	0.00	0.0000
12.9	16.5	2.62	100.0	0.00	0.0000
14.2	15.0	2.71	100.0	0.00	0.0000
15.5	13.8	2.81	100.0	0.00	0.0000
16.9	12.6	2.93	100.0	0.00	0.0000
18.5	11.5	3.13	100.0	0.00	0.0000
20.3	10.5	3.24	100.0	0.00	0.0000
22.2	9.61	3.33	100.0	0.00	0.0000
24.3	8.78	3.41	100.0	0.00	0.0000
26.6	8.02	3.52	100.0	0.00	0.0000
29.0	7.36	3.62	100.0	0.00	0.0000
31.8	6.71	3.72	100.0	0.00	0.0000
34.8	6.13	3.81	100.0	0.00	0.0000
38.0	5.61	3.92	100.0	0.00	0.0000

Table 4 (cont.). MICP data for sample 07JRM002 - 3.5a.

Mercury Injection Capillary Pressure
07JRM002 - 3.5a

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	3.99	100.0	0.00	0.0000
45.5	4.69	4.07	100.0	0.00	0.0000
49.8	4.28	4.15	100.0	0.00	0.0000
54.5	3.91	4.23	100.0	0.00	0.0000
59.6	3.58	4.27	100.0	0.00	0.0000
65.2	3.27	4.35	100.0	0.00	0.0000
71.3	2.99	4.41	100.0	0.00	0.0000
78.0	2.73	4.44	100.0	0.00	0.0000
85.3	2.50	4.49	100.0	0.00	0.0000
93.4	2.28	4.55	100.0	0.00	0.0000
102	2.09	4.60	100.0	0.00	0.0000
112	1.90	4.67	100.0	0.00	0.0000
122	1.75	4.70	100.0	0.00	0.0000
134	1.59	4.75	100.0	0.00	0.0000
146	1.46	4.78	100.0	0.00	0.0000
160	1.33	4.83	100.0	0.00	0.0000
175	1.22	4.87	100.0	0.00	0.0000
191	1.12	4.92	100.0	0.00	0.0000
209	1.02	4.97	100.0	0.00	0.0000
229	0.932	5.00	100.0	0.00	0.0000
251	0.850	5.04	100.0	0.00	0.0000
274	0.779	5.09	100.0	0.00	0.0000
300	0.711	5.14	100.0	0.00	0.0000
328	0.650	5.18	100.0	0.00	0.0000
359	0.594	5.23	100.0	0.00	0.0000
393	0.543	5.26	100.0	0.00	0.0000
430	0.496	5.31	100.0	0.00	0.0000
470	0.454	5.35	100.0	0.00	0.0000
514	0.415	5.38	100.0	0.00	0.0000
563	0.379	5.46	100.0	0.00	0.0000
615	0.347	5.52	100.0	0.00	0.0000
673	0.317	5.57	100.0	0.00	0.0000
736	0.290	5.63	100.0	0.00	0.0000
806	0.265	5.69	100.0	0.00	0.0000
881	0.242	5.77	100.0	0.00	0.0000
964	0.221	5.86	100.0	0.00	0.0000
1050	0.203	5.94	99.3	0.69	0.0080
1150	0.186	6.05	98.3	0.96	0.0096
1260	0.169	6.15	97.4	0.96	0.0088
1380	0.155	6.28	96.3	1.10	0.0092
1510	0.141	6.43	94.9	1.38	0.0106
1650	0.129	6.60	93.4	1.51	0.0108

Table 4 (cont.). MICP data for sample 07JRM002 - 3.5a.

Mercury Injection Capillary Pressure
07JRM002 - 3.5a

Capillary Pressure (psia)	Pore Aperture Diameter (microns)	Cumulative Bulk Vol. (%)	Wetting Phase Saturation (%)	Incremental Wetting Phase Change (%)	Saturation Change per psia
1810	0.1179	6.79	91.7	1.65	0.0103
1980	0.1077	7.00	89.8	1.93	0.0113
2160	0.0988	7.23	87.8	2.06	0.0115
2370	0.0900	7.51	85.3	2.48	0.0118
2590	0.0824	7.79	82.8	2.48	0.0113
2830	0.0754	8.10	80.1	2.75	0.0115
3100	0.0688	8.44	77.0	3.03	0.0112
3390	0.0629	8.76	74.1	2.89	0.0100
3710	0.0575	9.12	71.0	3.16	0.0099
4060	0.0525	9.47	67.8	3.16	0.0090
4440	0.0480	9.81	64.8	3.03	0.0080
4850	0.0440	10.13	61.9	2.89	0.0070
5310	0.0402	10.46	59.0	2.89	0.0063
5810	0.0367	10.78	56.1	2.89	0.0058
6360	0.0335	11.09	53.4	2.75	0.0050
6950	0.0307	11.38	50.8	2.61	0.0044
7610	0.0280	11.68	48.1	2.61	0.0040
8320	0.0256	11.94	45.8	2.34	0.0033
9100	0.0234	12.18	43.6	2.20	0.0028
9960	0.0214	12.43	41.4	2.20	0.0026
10900	0.0196	12.65	39.5	1.93	0.0020
11900	0.0179	12.86	37.6	1.93	0.0019
13000	0.0164	13.08	35.6	1.93	0.0018
14300	0.0149	13.29	33.7	1.93	0.0015
15600	0.0137	13.50	31.9	1.79	0.0014
17100	0.0125	13.70	30.1	1.79	0.0012
18700	0.0114	13.90	28.3	1.79	0.0011
20400	0.0105	14.08	26.7	1.65	0.0010
22300	0.0096	14.28	24.9	1.79	0.0009
24400	0.0087	14.50	23.0	1.93	0.0009
26700	0.0080	14.71	21.0	1.93	0.0008
29300	0.0073	14.93	19.1	1.93	0.0007
32000	0.0067	15.15	17.2	1.93	0.0007
35000	0.0061	15.38	15.1	2.06	0.0007
38300	0.0056	15.62	12.9	2.20	0.0007
41900	0.0051	15.87	10.7	2.20	0.0006
45800	0.0047	16.13	8.4	2.34	0.0006
50100	0.0043	16.46	5.5	2.89	0.0007
54800	0.0039	16.76	2.8	2.75	0.0006
59500	0.0036	17.07	0.0	2.75	0.0006

Table 5. MICP data for sample 07JRM003 - 11.0a.

Mercury Injection Capillary Pressure
07JRM003 - 11.0a

Sample Information			
Bulk Volume =	4.8422 cc	Porosity =	22.9% (mercury)
Pore Volume =	1.1077 cc	Permeability =	1.072 md (mercury)
Closure = 0.97 %BV @ 78.0 psia		Median Pore Aperture = 0.3717 microns (diameter)	

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	0.02	100.0	0.00	0.0000
1.96	109	0.04	100.0	0.00	0.0000
2.15	99.2	0.06	100.0	0.00	0.0000
2.35	90.8	0.06	100.0	0.00	0.0000
2.57	83.0	0.08	100.0	0.00	0.0000
2.81	75.9	0.08	100.0	0.00	0.0000
3.08	69.3	0.10	100.0	0.00	0.0000
3.37	63.3	0.10	100.0	0.00	0.0000
3.68	58.0	0.12	100.0	0.00	0.0000
4.03	52.9	0.12	100.0	0.00	0.0000
4.41	48.4	0.14	100.0	0.00	0.0000
4.82	44.3	0.14	100.0	0.00	0.0000
5.27	40.5	0.14	100.0	0.00	0.0000
5.77	37.0	0.17	100.0	0.00	0.0000
6.31	33.8	0.17	100.0	0.00	0.0000
6.90	30.9	0.19	100.0	0.00	0.0000
7.55	28.3	0.19	100.0	0.00	0.0000
8.26	25.8	0.21	100.0	0.00	0.0000
9.04	23.6	0.21	100.0	0.00	0.0000
9.89	21.6	0.23	100.0	0.00	0.0000
10.8	19.8	0.23	100.0	0.00	0.0000
11.8	18.1	0.25	100.0	0.00	0.0000
12.9	16.5	0.27	100.0	0.00	0.0000
14.2	15.0	0.29	100.0	0.00	0.0000
15.5	13.8	0.31	100.0	0.00	0.0000
16.9	12.6	0.33	100.0	0.00	0.0000
18.5	11.5	0.35	100.0	0.00	0.0000
20.3	10.5	0.37	100.0	0.00	0.0000
22.2	9.61	0.39	100.0	0.00	0.0000
24.3	8.78	0.43	100.0	0.00	0.0000
26.6	8.02	0.45	100.0	0.00	0.0000
29.0	7.36	0.50	100.0	0.00	0.0000
31.8	6.71	0.52	100.0	0.00	0.0000
34.8	6.13	0.56	100.0	0.00	0.0000
38.0	5.61	0.60	100.0	0.00	0.0000

Table 5 (cont.). MICP data for sample 07JRM003 - 11.0a.

Mercury Injection Capillary Pressure
07JRM003 - 11.0a

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	0.64	100.0	0.00	0.0000
45.5	4.69	0.68	100.0	0.00	0.0000
49.8	4.28	0.72	100.0	0.00	0.0000
54.5	3.91	0.74	100.0	0.00	0.0000
59.6	3.58	0.78	100.0	0.00	0.0000
65.2	3.27	0.83	100.0	0.00	0.0000
71.3	2.99	0.89	100.0	0.00	0.0000
78.0	2.73	0.97	100.0	0.00	0.0000
85.3	2.50	1.05	99.6	0.36	0.0495
93.4	2.28	1.20	99.0	0.63	0.0781
102	2.09	1.38	98.2	0.81	0.0945
112	1.90	1.75	96.6	1.63	0.1626
122	1.75	2.02	95.4	1.17	0.1174
134	1.59	2.50	93.3	2.08	0.1731
146	1.46	3.03	91.0	2.35	0.1957
160	1.33	3.74	87.9	3.07	0.2194
175	1.22	4.48	84.6	3.25	0.2168
191	1.12	5.29	81.1	3.52	0.2202
209	1.02	6.07	77.7	3.43	0.1907
229	0.932	6.85	74.3	3.43	0.1716
251	0.850	7.58	71.1	3.16	0.1437
274	0.779	8.18	68.5	2.62	0.1139
300	0.711	8.67	66.3	2.17	0.0834
328	0.650	9.21	64.0	2.35	0.0839
359	0.594	9.79	61.4	2.53	0.0816
393	0.543	10.32	59.1	2.35	0.0691
430	0.496	10.86	56.7	2.35	0.0635
470	0.454	11.36	54.6	2.17	0.0542
514	0.415	11.87	52.3	2.26	0.0513
563	0.379	12.28	50.5	1.81	0.0369
615	0.347	12.78	48.3	2.17	0.0417
673	0.317	13.21	46.4	1.90	0.0327
736	0.290	13.67	44.4	1.99	0.0315
806	0.265	14.10	42.5	1.90	0.0271
881	0.242	14.49	40.8	1.72	0.0229
964	0.221	14.93	38.9	1.90	0.0229
1050	0.203	15.32	37.2	1.72	0.0200
1150	0.186	15.69	35.6	1.63	0.0163
1260	0.169	16.04	34.1	1.54	0.0140
1380	0.155	16.39	32.5	1.54	0.0128
1510	0.141	16.74	31.0	1.54	0.0118
1650	0.129	17.07	29.5	1.45	0.0103

Table 5 (cont.). MICP data for sample 07JRM003 - 11.0a.

Mercury Injection Capillary Pressure
07JRM003 - 11.0a

Capillary Pressure (psia)	Pore Aperture Diameter (microns)	Cumulative Bulk Vol. (%)	Wetting Phase Saturation (%)	Incremental Wetting Phase Change (%)	Saturation Change per psia
1810	0.1179	17.40	28.1	1.45	0.0090
1980	0.1077	17.69	26.8	1.26	0.0074
2160	0.0988	17.98	25.6	1.26	0.0070
2370	0.0900	18.27	24.3	1.26	0.0060
2590	0.0824	18.56	23.0	1.26	0.0057
2830	0.0754	18.81	22.0	1.08	0.0045
3100	0.0688	19.06	20.9	1.08	0.0040
3390	0.0629	19.30	19.8	1.08	0.0037
3710	0.0575	19.53	18.8	0.99	0.0031
4060	0.0525	19.76	17.8	0.99	0.0028
4440	0.0480	19.96	16.9	0.90	0.0024
4850	0.0440	20.17	16.0	0.90	0.0022
5310	0.0402	20.36	15.2	0.81	0.0018
5810	0.0367	20.54	14.4	0.81	0.0016
6360	0.0335	20.73	13.6	0.81	0.0015
6950	0.0307	20.91	12.7	0.81	0.0014
7610	0.0280	21.08	12.0	0.72	0.0011
8320	0.0256	21.24	11.3	0.72	0.0010
9100	0.0234	21.41	10.6	0.72	0.0009
9960	0.0214	21.57	9.8	0.72	0.0008
10900	0.0196	21.72	9.2	0.63	0.0007
11900	0.0179	21.86	8.6	0.63	0.0006
13000	0.0164	22.01	7.9	0.63	0.0006
14300	0.0149	22.15	7.3	0.63	0.0005
15600	0.0137	22.30	6.7	0.63	0.0005
17100	0.0125	22.42	6.1	0.54	0.0004
18700	0.0114	22.54	5.6	0.54	0.0003
20400	0.0105	22.67	5.1	0.54	0.0003
22300	0.0096	22.79	4.5	0.54	0.0003
24400	0.0087	22.92	4.0	0.54	0.0003
26700	0.0080	23.02	3.5	0.45	0.0002
29300	0.0073	23.12	3.1	0.45	0.0002
32000	0.0067	23.23	2.6	0.45	0.0002
35000	0.0061	23.33	2.2	0.45	0.0002
38300	0.0056	23.41	1.8	0.36	0.0001
41900	0.0051	23.49	1.4	0.36	0.0001
45800	0.0047	23.58	1.1	0.36	0.0001
50100	0.0043	23.64	0.8	0.27	0.0001
54800	0.0039	23.70	0.5	0.27	0.0001
59500	0.0036	23.82	0.0	0.54	0.0001

Table 6. MICP data for sample 07JRM005 - 9.1a.

Mercury Injection Capillary Pressure
07JRM005 - 9.1a

Sample Information			
Bulk Volume =	8.2263 cc	Porosity =	20.9% (mercury)
Pore Volume =	1.7183 cc	Permeability =	0.0856 md (mercury)
Closure = 1.17 %BV @ 317 psia		Median Pore Aperture = 0.1242 microns (diameter)	

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	0.02	100.0	0.00	0.0000
1.96	109	0.04	100.0	0.00	0.0000
2.15	99.2	0.04	100.0	0.00	0.0000
2.35	90.8	0.06	100.0	0.00	0.0000
2.57	83.0	0.06	100.0	0.00	0.0000
2.81	75.9	0.06	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	0.09	100.0	0.00	0.0000
4.03	52.9	0.09	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	0.13	100.0	0.00	0.0000
5.77	37.0	0.13	100.0	0.00	0.0000
6.31	33.8	0.17	100.0	0.00	0.0000
6.90	30.9	0.17	100.0	0.00	0.0000
7.55	28.3	0.19	100.0	0.00	0.0000
8.26	25.8	0.19	100.0	0.00	0.0000
9.04	23.6	0.19	100.0	0.00	0.0000
9.89	21.6	0.21	100.0	0.00	0.0000
10.8	19.8	0.21	100.0	0.00	0.0000
11.8	18.1	0.23	100.0	0.00	0.0000
12.9	16.5	0.26	100.0	0.00	0.0000
14.2	15.0	0.26	100.0	0.00	0.0000
15.5	13.8	0.28	100.0	0.00	0.0000
16.9	12.6	0.28	100.0	0.00	0.0000
18.5	11.5	0.30	100.0	0.00	0.0000
20.3	10.5	0.32	100.0	0.00	0.0000
22.2	9.61	0.32	100.0	0.00	0.0000
24.3	8.78	0.34	100.0	0.00	0.0000
26.6	8.02	0.36	100.0	0.00	0.0000
29.0	7.36	0.43	100.0	0.00	0.0000
31.8	6.71	0.45	100.0	0.00	0.0000
34.8	6.13	0.47	100.0	0.00	0.0000
38.0	5.61	0.47	100.0	0.00	0.0000

Table 6 (cont.). MICP data for sample 07JRM005 - 9.1a.

Mercury Injection Capillary Pressure
07JRM005 - 9.1a

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	0.49	100.0	0.00	0.0000
45.5	4.69	0.51	100.0	0.00	0.0000
49.8	4.28	0.53	100.0	0.00	0.0000
54.5	3.91	0.53	100.0	0.00	0.0000
59.6	3.58	0.53	100.0	0.00	0.0000
65.2	3.27	0.55	100.0	0.00	0.0000
71.3	2.99	0.55	100.0	0.00	0.0000
78.0	2.73	0.58	100.0	0.00	0.0000
85.3	2.50	0.58	100.0	0.00	0.0000
93.4	2.28	0.60	100.0	0.00	0.0000
102	2.09	0.60	100.0	0.00	0.0000
112	1.90	0.62	100.0	0.00	0.0000
122	1.75	0.62	100.0	0.00	0.0000
134	1.59	0.64	100.0	0.00	0.0000
146	1.46	0.64	100.0	0.00	0.0000
160	1.33	0.66	100.0	0.00	0.0000
175	1.22	0.66	100.0	0.00	0.0000
191	1.12	0.68	100.0	0.00	0.0000
209	1.02	0.70	100.0	0.00	0.0000
229	0.932	0.72	100.0	0.00	0.0000
251	0.850	0.75	100.0	0.00	0.0000
274	0.779	0.75	100.0	0.00	0.0000
300	0.711	0.79	100.0	0.00	0.0000
328	0.650	0.81	100.0	0.00	0.0000
359	0.594	0.83	100.0	0.00	0.0000
393	0.543	0.85	100.0	0.00	0.0000
430	0.496	0.90	100.0	0.00	0.0000
470	0.454	0.94	100.0	0.00	0.0000
514	0.415	0.98	100.0	0.00	0.0000
563	0.379	1.02	100.0	0.00	0.0000
615	0.347	1.09	100.0	0.00	0.0000
673	0.317	1.17	100.0	0.00	0.0000
736	0.290	1.26	99.6	0.41	0.0065
806	0.265	1.41	98.9	0.71	0.0102
881	0.242	1.68	97.6	1.33	0.0177
964	0.221	2.15	95.3	2.24	0.0270
1050	0.203	3.01	91.2	4.08	0.0475
1150	0.186	4.65	83.4	7.86	0.0786
1260	0.169	6.42	74.9	8.47	0.0770
1380	0.155	8.23	66.2	8.67	0.0723
1510	0.141	9.95	58.0	8.27	0.0636
1650	0.129	11.17	52.1	5.82	0.0415

Table 6 (cont.). MICP data for sample 07JRM005 - 9.1a.

Mercury Injection Capillary Pressure
07JRM005 - 9.1a

Capillary Pressure (psia)	Pore Aperture Diameter (microns)	Cumulative Bulk Vol. (%)	Wetting Phase Saturation (%)	Incremental Wetting Phase Change (%)	Saturation Change per psia
1810	0.1179	12.15	47.4	4.69	0.0293
1980	0.1077	12.98	43.5	3.98	0.0234
2160	0.0988	13.68	40.1	3.37	0.0187
2370	0.0900	14.37	36.8	3.27	0.0155
2590	0.0824	14.92	34.2	2.65	0.0121
2830	0.0754	15.43	31.7	2.45	0.0102
3100	0.0688	15.90	29.5	2.24	0.0083
3390	0.0629	16.33	27.4	2.04	0.0070
3710	0.0575	16.73	25.5	1.94	0.0061
4060	0.0525	17.09	23.8	1.73	0.0050
4440	0.0480	17.44	22.1	1.63	0.0043
4850	0.0440	17.71	20.8	1.33	0.0032
5310	0.0402	18.01	19.4	1.43	0.0031
5810	0.0367	18.29	18.1	1.33	0.0027
6360	0.0335	18.54	16.8	1.22	0.0022
6950	0.0307	18.76	15.8	1.02	0.0017
7610	0.0280	18.99	14.7	1.12	0.0017
8320	0.0256	19.20	13.7	1.02	0.0014
9100	0.0234	19.44	12.6	1.12	0.0014
9960	0.0214	19.63	11.6	0.92	0.0011
10900	0.0196	19.80	10.8	0.82	0.0009
11900	0.0179	19.99	9.9	0.92	0.0009
13000	0.0164	20.16	9.1	0.82	0.0007
14300	0.0149	20.33	8.3	0.82	0.0006
15600	0.0137	20.48	7.6	0.71	0.0005
17100	0.0125	20.63	6.8	0.71	0.0005
18700	0.0114	20.78	6.1	0.71	0.0004
20400	0.0105	20.91	5.5	0.61	0.0004
22300	0.0096	21.04	4.9	0.61	0.0003
24400	0.0087	21.17	4.3	0.61	0.0003
26700	0.0080	21.27	3.8	0.51	0.0002
29300	0.0073	21.40	3.2	0.61	0.0002
32000	0.0067	21.49	2.8	0.41	0.0002
35000	0.0061	21.57	2.3	0.41	0.0001
38300	0.0056	21.68	1.8	0.51	0.0002
41900	0.0051	21.76	1.4	0.41	0.0001
45800	0.0047	21.83	1.1	0.31	0.0001
50100	0.0043	21.91	0.7	0.41	0.0001
54800	0.0039	21.98	0.4	0.31	0.0001
59500	0.0036	22.06	0.0	0.41	0.0001

Table 7. MICP data for sample 07JRM005 - 16.5.

Mercury Injection Capillary Pressure
07JRM005 - 16.5

Sample Information			
Bulk Volume =	5.668 cc	Porosity =	22.1% (mercury)
Pore Volume =	1.2286 cc	Permeability =	0.494 md (mercury)
Closure = 0.59 %BV @ 175 psia		Median Pore Aperture = 0.3213 microns (diameter)	

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	0.02	100.0	0.00	0.0000
1.96	109	0.02	100.0	0.00	0.0000
2.15	99.2	0.04	100.0	0.00	0.0000
2.35	90.8	0.04	100.0	0.00	0.0000
2.57	83.0	0.06	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	0.08	100.0	0.00	0.0000
3.68	58.0	0.08	100.0	0.00	0.0000
4.03	52.9	0.08	100.0	0.00	0.0000
4.41	48.4	0.11	100.0	0.00	0.0000
4.82	44.3	0.11	100.0	0.00	0.0000
5.27	40.5	0.11	100.0	0.00	0.0000
5.77	37.0	0.11	100.0	0.00	0.0000
6.31	33.8	0.13	100.0	0.00	0.0000
6.90	30.9	0.13	100.0	0.00	0.0000
7.55	28.3	0.13	100.0	0.00	0.0000
8.26	25.8	0.15	100.0	0.00	0.0000
9.04	23.6	0.15	100.0	0.00	0.0000
9.89	21.6	0.15	100.0	0.00	0.0000
10.8	19.8	0.15	100.0	0.00	0.0000
11.8	18.1	0.17	100.0	0.00	0.0000
12.9	16.5	0.17	100.0	0.00	0.0000
14.2	15.0	0.19	100.0	0.00	0.0000
15.5	13.8	0.19	100.0	0.00	0.0000
16.9	12.6	0.19	100.0	0.00	0.0000
18.5	11.5	0.19	100.0	0.00	0.0000
20.3	10.5	0.21	100.0	0.00	0.0000
22.2	9.61	0.21	100.0	0.00	0.0000
24.3	8.78	0.23	100.0	0.00	0.0000
26.6	8.02	0.23	100.0	0.00	0.0000
29.0	7.36	0.23	100.0	0.00	0.0000
31.8	6.71	0.25	100.0	0.00	0.0000
34.8	6.13	0.25	100.0	0.00	0.0000
38.0	5.61	0.27	100.0	0.00	0.0000

Table 7 (cont.). MICP data for sample 07JRM005 - 16.5.

Mercury Injection Capillary Pressure
07JRM005 - 16.5

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	0.30	100.0	0.00	0.0000
45.5	4.69	0.32	100.0	0.00	0.0000
49.8	4.28	0.32	100.0	0.00	0.0000
54.5	3.91	0.32	100.0	0.00	0.0000
59.6	3.58	0.32	100.0	0.00	0.0000
65.2	3.27	0.34	100.0	0.00	0.0000
71.3	2.99	0.34	100.0	0.00	0.0000
78.0	2.73	0.36	100.0	0.00	0.0000
85.3	2.50	0.36	100.0	0.00	0.0000
93.4	2.28	0.38	100.0	0.00	0.0000
102	2.09	0.38	100.0	0.00	0.0000
112	1.90	0.40	100.0	0.00	0.0000
122	1.75	0.42	100.0	0.00	0.0000
134	1.59	0.44	100.0	0.00	0.0000
146	1.46	0.49	100.0	0.00	0.0000
160	1.33	0.53	100.0	0.00	0.0000
175	1.22	0.59	100.0	0.00	0.0000
191	1.12	0.70	99.5	0.48	0.0299
209	1.02	0.89	98.7	0.86	0.0478
229	0.932	1.18	97.3	1.34	0.0669
251	0.850	1.56	95.6	1.72	0.0782
274	0.779	2.09	93.2	2.39	0.1039
300	0.711	2.91	89.5	3.73	0.1434
328	0.650	4.20	83.7	5.83	0.2083
359	0.594	5.68	77.0	6.69	0.2159
393	0.543	6.94	71.2	5.74	0.1687
430	0.496	8.04	66.3	4.97	0.1344
470	0.454	8.97	62.0	4.21	0.1052
514	0.415	9.77	58.4	3.63	0.0826
563	0.379	10.44	55.4	3.06	0.0624
615	0.347	11.10	52.4	2.96	0.0570
673	0.317	11.71	49.6	2.77	0.0478
736	0.290	12.28	47.0	2.58	0.0410
806	0.265	12.81	44.6	2.39	0.0341
881	0.242	13.34	42.3	2.39	0.0319
964	0.221	13.88	39.8	2.49	0.0299
1050	0.203	14.41	37.4	2.39	0.0278
1150	0.186	14.81	35.6	1.82	0.0182
1260	0.169	15.17	33.9	1.63	0.0148
1380	0.155	15.55	32.2	1.72	0.0143
1510	0.141	15.91	30.6	1.63	0.0125
1650	0.129	16.25	29.1	1.53	0.0109

Table 7 (cont.). MICP data for sample 07JRM005 - 16.5.

Mercury Injection Capillary Pressure
07JRM005 - 16.5

Capillary Pressure (psia)	Pore Aperture Diameter (microns)	Cumulative Bulk Vol. (%)	Wetting Phase Saturation (%)	Incremental Wetting Phase Change (%)	Saturation Change per psia
1810	0.1179	16.58	27.5	1.53	0.0096
1980	0.1077	16.90	26.1	1.43	0.0084
2160	0.0988	17.20	24.8	1.34	0.0074
2370	0.0900	17.49	23.4	1.34	0.0064
2590	0.0824	17.77	22.2	1.24	0.0056
2830	0.0754	18.04	20.9	1.24	0.0052
3100	0.0688	18.29	19.8	1.15	0.0042
3390	0.0629	18.53	18.7	1.05	0.0036
3710	0.0575	18.76	17.7	1.05	0.0033
4060	0.0525	18.97	16.7	0.96	0.0027
4440	0.0480	19.18	15.8	0.96	0.0025
4850	0.0440	19.35	15.0	0.76	0.0019
5310	0.0402	19.54	14.1	0.86	0.0019
5810	0.0367	19.73	13.3	0.86	0.0017
6360	0.0335	19.90	12.5	0.76	0.0014
6950	0.0307	20.07	11.8	0.76	0.0013
7610	0.0280	20.23	11.0	0.76	0.0012
8320	0.0256	20.38	10.3	0.67	0.0009
9100	0.0234	20.55	9.6	0.76	0.0010
9960	0.0214	20.70	8.9	0.67	0.0008
10900	0.0196	20.85	8.2	0.67	0.0007
11900	0.0179	20.97	7.6	0.57	0.0006
13000	0.0164	21.10	7.1	0.57	0.0005
14300	0.0149	21.25	6.4	0.67	0.0005
15600	0.0137	21.37	5.8	0.57	0.0004
17100	0.0125	21.48	5.4	0.48	0.0003
18700	0.0114	21.61	4.8	0.57	0.0004
20400	0.0105	21.71	4.3	0.48	0.0003
22300	0.0096	21.82	3.8	0.48	0.0003
24400	0.0087	21.92	3.3	0.48	0.0002
26700	0.0080	22.01	3.0	0.38	0.0002
29300	0.0073	22.11	2.5	0.48	0.0002
32000	0.0067	22.20	2.1	0.38	0.0001
35000	0.0061	22.26	1.8	0.29	0.0001
38300	0.0056	22.34	1.4	0.38	0.0001
41900	0.0051	22.41	1.1	0.29	0.0001
45800	0.0047	22.47	0.9	0.29	0.0001
50100	0.0043	22.53	0.6	0.29	0.0001
54800	0.0039	22.58	0.4	0.19	0.0000
59500	0.0036	22.66	0.0	0.38	0.0001

Table 8. MICP data for sample 07JRM006 - 18.3a.

Mercury Injection Capillary Pressure
07JRM006 - 18.3a

Sample Information			
Bulk Volume =	8.2225 cc	Porosity =	22.1% (mercury)
Pore Volume =	1.8167 cc	Permeability =	0.0682 md (mercury)
Closure = 1.42 %BV @ 881 psia		Median Pore Aperture = 0.1013 microns (diameter)	

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	0.02	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	0.04	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	0.04	100.0	0.00	0.0000
3.37	63.3	0.04	100.0	0.00	0.0000
3.68	58.0	0.04	100.0	0.00	0.0000
4.03	52.9	0.04	100.0	0.00	0.0000
4.41	48.4	0.04	100.0	0.00	0.0000
4.82	44.3	0.04	100.0	0.00	0.0000
5.27	40.5	0.04	100.0	0.00	0.0000
5.77	37.0	0.04	100.0	0.00	0.0000
6.31	33.8	0.07	100.0	0.00	0.0000
6.90	30.9	0.13	100.0	0.00	0.0000
7.55	28.3	0.13	100.0	0.00	0.0000
8.26	25.8	0.15	100.0	0.00	0.0000
9.04	23.6	0.15	100.0	0.00	0.0000
9.89	21.6	0.15	100.0	0.00	0.0000
10.8	19.8	0.17	100.0	0.00	0.0000
11.8	18.1	0.17	100.0	0.00	0.0000
12.9	16.5	0.17	100.0	0.00	0.0000
14.2	15.0	0.20	100.0	0.00	0.0000
15.5	13.8	0.20	100.0	0.00	0.0000
16.9	12.6	0.20	100.0	0.00	0.0000
18.5	11.5	0.22	100.0	0.00	0.0000
20.3	10.5	0.22	100.0	0.00	0.0000
22.2	9.61	0.22	100.0	0.00	0.0000
24.3	8.78	0.24	100.0	0.00	0.0000
26.6	8.02	0.24	100.0	0.00	0.0000
29.0	7.36	0.26	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	0.28	100.0	0.00	0.0000

Table 8 (cont.). MICP data for sample 07JRM006 - 18.3a.

Mercury Injection Capillary Pressure
07JRM006 - 18.3a

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	0.31	100.0	0.00	0.0000
45.5	4.69	0.33	100.0	0.00	0.0000
49.8	4.28	0.33	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	0.37	100.0	0.00	0.0000
71.3	2.99	0.37	100.0	0.00	0.0000
78.0	2.73	0.37	100.0	0.00	0.0000
85.3	2.50	0.39	100.0	0.00	0.0000
93.4	2.28	0.41	100.0	0.00	0.0000
102	2.09	0.41	100.0	0.00	0.0000
112	1.90	0.46	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	0.50	100.0	0.00	0.0000
160	1.33	0.52	100.0	0.00	0.0000
175	1.22	0.59	100.0	0.00	0.0000
191	1.12	0.61	100.0	0.00	0.0000
209	1.02	0.63	100.0	0.00	0.0000
229	0.932	0.65	100.0	0.00	0.0000
251	0.850	0.68	100.0	0.00	0.0000
274	0.779	0.72	100.0	0.00	0.0000
300	0.711	0.74	100.0	0.00	0.0000
328	0.650	0.76	100.0	0.00	0.0000
359	0.594	0.81	100.0	0.00	0.0000
393	0.543	0.83	100.0	0.00	0.0000
430	0.496	0.87	100.0	0.00	0.0000
470	0.454	0.89	100.0	0.00	0.0000
514	0.415	0.94	100.0	0.00	0.0000
563	0.379	0.98	100.0	0.00	0.0000
615	0.347	1.05	100.0	0.00	0.0000
673	0.317	1.11	100.0	0.00	0.0000
736	0.290	1.20	100.0	0.00	0.0000
806	0.265	1.29	100.0	0.00	0.0000
881	0.242	1.42	100.0	0.00	0.0000
964	0.221	1.57	99.3	0.69	0.0083
1050	0.203	1.85	98.0	1.28	0.0149
1150	0.186	2.36	95.8	2.27	0.0227
1260	0.169	3.21	91.9	3.85	0.0350
1380	0.155	4.82	84.6	7.31	0.0609
1510	0.141	6.67	76.2	8.39	0.0645
1650	0.129	8.64	67.3	8.88	0.0635

Table 8 (cont.). MICP data for sample 07JRM006 - 18.3a.

Mercury Injection Capillary Pressure
07JRM006 - 18.3a

Capillary Pressure (psia)	Pore Aperture Diameter (microns)	Cumulative Bulk Vol. (%)	Wetting Phase Saturation (%)	Incremental Wetting Phase Change (%)	Saturation Change per psia
1810	0.1179	10.32	59.7	7.60	0.0475
1980	0.1077	11.67	53.6	6.12	0.0360
2160	0.0988	12.78	48.6	5.03	0.0280
2370	0.0900	13.85	43.7	4.84	0.0230
2590	0.0824	14.72	39.8	3.95	0.0179
2830	0.0754	15.49	36.3	3.46	0.0144
3100	0.0688	16.21	33.1	3.26	0.0121
3390	0.0629	16.82	30.3	2.76	0.0095
3710	0.0575	17.36	27.8	2.47	0.0077
4060	0.0525	17.84	25.7	2.17	0.0062
4440	0.0480	18.30	23.6	2.07	0.0055
4850	0.0440	18.67	21.9	1.68	0.0041
5310	0.0402	19.04	20.2	1.68	0.0036
5810	0.0367	19.37	18.8	1.48	0.0030
6360	0.0335	19.67	17.4	1.38	0.0025
6950	0.0307	19.98	16.0	1.38	0.0023
7610	0.0280	20.24	14.8	1.18	0.0018
8320	0.0256	20.48	13.7	1.09	0.0015
9100	0.0234	20.72	12.6	1.09	0.0014
9960	0.0214	20.94	11.6	0.99	0.0011
10900	0.0196	21.13	10.8	0.89	0.0009
11900	0.0179	21.33	9.9	0.89	0.0009
13000	0.0164	21.51	9.1	0.79	0.0007
14300	0.0149	21.68	8.3	0.79	0.0006
15600	0.0137	21.83	7.6	0.69	0.0005
17100	0.0125	21.99	6.9	0.69	0.0005
18700	0.0114	22.14	6.2	0.69	0.0004
20400	0.0105	22.27	5.6	0.59	0.0003
22300	0.0096	22.40	5.0	0.59	0.0003
24400	0.0087	22.53	4.4	0.59	0.0003
26700	0.0080	22.66	3.8	0.59	0.0003
29300	0.0073	22.77	3.4	0.49	0.0002
32000	0.0067	22.88	2.9	0.49	0.0002
35000	0.0061	22.97	2.5	0.39	0.0001
38300	0.0056	23.08	2.0	0.49	0.0001
41900	0.0051	23.16	1.6	0.39	0.0001
45800	0.0047	23.25	1.2	0.39	0.0001
50100	0.0043	23.32	0.9	0.30	0.0001
54800	0.0039	23.42	0.4	0.49	0.0001
59500	0.0036	23.51	0.0	0.39	0.0001

Table 9. MICP data for sample 07JRM008 - 26.5a.

Mercury Injection Capillary Pressure
07JRM008 - 26.5a

Sample Information			
Bulk Volume =	7.0014 cc	Porosity =	24.0% (mercury)
Pore Volume =	1.6765 cc	Permeability =	0.422 md (mercury)
Closure = 0.70 %BV @ 300 psia		Median Pore Aperture = 0.290 microns (diameter)	

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	0.02	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	0.04	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	0.06	100.0	0.00	0.0000
3.37	63.3	0.06	100.0	0.00	0.0000
3.68	58.0	0.06	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	0.08	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	0.10	100.0	0.00	0.0000
6.90	30.9	0.12	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	0.14	100.0	0.00	0.0000
9.89	21.6	0.14	100.0	0.00	0.0000
10.8	19.8	0.16	100.0	0.00	0.0000
11.8	18.1	0.16	100.0	0.00	0.0000
12.9	16.5	0.16	100.0	0.00	0.0000
14.2	15.0	0.18	100.0	0.00	0.0000
15.5	13.8	0.18	100.0	0.00	0.0000
16.9	12.6	0.20	100.0	0.00	0.0000
18.5	11.5	0.20	100.0	0.00	0.0000
20.3	10.5	0.22	100.0	0.00	0.0000
22.2	9.61	0.22	100.0	0.00	0.0000
24.3	8.78	0.25	100.0	0.00	0.0000
26.6	8.02	0.25	100.0	0.00	0.0000
29.0	7.36	0.27	100.0	0.00	0.0000
31.8	6.71	0.29	100.0	0.00	0.0000
34.8	6.13	0.29	100.0	0.00	0.0000
38.0	5.61	0.31	100.0	0.00	0.0000

Table 9 (cont.). MICP data for sample 07JRM008 - 26.5a.

Mercury Injection Capillary Pressure
07JRM008 - 26.5a

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	0.31	100.0	0.00	0.0000
45.5	4.69	0.33	100.0	0.00	0.0000
49.8	4.28	0.33	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	0.35	100.0	0.00	0.0000
78.0	2.73	0.37	100.0	0.00	0.0000
85.3	2.50	0.37	100.0	0.00	0.0000
93.4	2.28	0.39	100.0	0.00	0.0000
102	2.09	0.39	100.0	0.00	0.0000
112	1.90	0.41	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	0.45	100.0	0.00	0.0000
160	1.33	0.47	100.0	0.00	0.0000
175	1.22	0.49	100.0	0.00	0.0000
191	1.12	0.51	100.0	0.00	0.0000
209	1.02	0.53	100.0	0.00	0.0000
229	0.932	0.55	100.0	0.00	0.0000
251	0.850	0.59	100.0	0.00	0.0000
274	0.779	0.63	100.0	0.00	0.0000
300	0.711	0.70	100.0	0.00	0.0000
328	0.650	0.80	99.6	0.43	0.0152
359	0.594	0.98	98.8	0.77	0.0248
393	0.543	1.55	96.4	2.39	0.0703
430	0.496	3.46	88.5	7.94	0.2146
470	0.454	6.05	77.6	10.85	0.2711
514	0.415	7.89	69.9	7.69	0.1747
563	0.379	9.39	63.7	6.23	0.1272
615	0.347	10.61	58.6	5.12	0.0985
673	0.317	11.70	54.1	4.53	0.0780
736	0.290	12.68	50.0	4.10	0.0651
806	0.265	13.56	46.3	3.67	0.0525
881	0.242	14.38	42.9	3.42	0.0455
964	0.221	15.15	39.6	3.25	0.0391
1050	0.203	15.83	36.8	2.82	0.0328
1150	0.186	16.52	33.9	2.90	0.0290
1260	0.169	17.10	31.5	2.39	0.0217
1380	0.155	17.59	29.5	2.05	0.0171
1510	0.141	18.08	27.4	2.05	0.0158
1650	0.129	18.51	25.6	1.79	0.0128

Table 9 (cont.). MICP data for sample 07JRM008 - 26.5a.

Mercury Injection Capillary Pressure
07JRM008 - 26.5a

Capillary Pressure (psia)	Pore Aperture Diameter (microns)	Cumulative Bulk Vol. (%)	Wetting Phase Saturation (%)	Incremental Wetting Phase Change (%)	Saturation Change per psia
1810	0.1179	18.94	23.8	1.79	0.0112
1980	0.1077	19.30	22.3	1.54	0.0090
2160	0.0988	19.65	20.8	1.45	0.0081
2370	0.0900	20.00	19.4	1.45	0.0069
2590	0.0824	20.29	18.2	1.20	0.0054
2830	0.0754	20.57	17.0	1.20	0.0050
3100	0.0688	20.84	15.9	1.11	0.0041
3390	0.0629	21.08	14.9	1.02	0.0035
3710	0.0575	21.33	13.8	1.02	0.0032
4060	0.0525	21.53	13.0	0.85	0.0024
4440	0.0480	21.74	12.1	0.85	0.0022
4850	0.0440	21.92	11.4	0.77	0.0019
5310	0.0402	22.08	10.7	0.68	0.0015
5810	0.0367	22.27	9.9	0.77	0.0015
6360	0.0335	22.43	9.2	0.68	0.0012
6950	0.0307	22.58	8.6	0.60	0.0010
7610	0.0280	22.72	8.0	0.60	0.0009
8320	0.0256	22.86	7.4	0.60	0.0008
9100	0.0234	22.98	6.9	0.51	0.0007
9960	0.0214	23.11	6.4	0.51	0.0006
10900	0.0196	23.23	5.9	0.51	0.0005
11900	0.0179	23.33	5.5	0.43	0.0004
13000	0.0164	23.43	5.0	0.43	0.0004
14300	0.0149	23.56	4.5	0.51	0.0004
15600	0.0137	23.64	4.2	0.34	0.0003
17100	0.0125	23.74	3.8	0.43	0.0003
18700	0.0114	23.84	3.3	0.43	0.0003
20400	0.0105	23.93	3.0	0.34	0.0002
22300	0.0096	24.01	2.6	0.34	0.0002
24400	0.0087	24.07	2.4	0.26	0.0001
26700	0.0080	24.15	2.0	0.34	0.0001
29300	0.0073	24.21	1.8	0.26	0.0001
32000	0.0067	24.27	1.5	0.26	0.0001
35000	0.0061	24.33	1.3	0.26	0.0001
38300	0.0056	24.40	1.0	0.26	0.0001
41900	0.0051	24.44	0.9	0.17	0.0000
45800	0.0047	24.50	0.6	0.26	0.0001
50100	0.0043	24.54	0.4	0.17	0.0000
54800	0.0039	24.58	0.3	0.17	0.0000
59500	0.0036	24.64	0.0	0.26	0.0001

Table 10. MICP data for sample 07JRM009 - 19.7a.

Mercury Injection Capillary Pressure
07JRM009 - 19.7a

Sample Information			
Bulk Volume =	7.6051 cc	Porosity =	21.5% (mercury)
Pore Volume =	1.6356 cc	Permeability =	0.182 md (mercury)
Closure = 0.61 %BV @ 430 psia		Median Pore Aperture = 0.1960 microns (diameter)	

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	0.02	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	0.02	100.0	0.00	0.0000
2.81	75.9	0.02	100.0	0.00	0.0000
3.08	69.3	0.02	100.0	0.00	0.0000
3.37	63.3	0.04	100.0	0.00	0.0000
3.68	58.0	0.04	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	0.11	100.0	0.00	0.0000
5.27	40.5	0.11	100.0	0.00	0.0000
5.77	37.0	0.11	100.0	0.00	0.0000
6.31	33.8	0.13	100.0	0.00	0.0000
6.90	30.9	0.13	100.0	0.00	0.0000
7.55	28.3	0.13	100.0	0.00	0.0000
8.26	25.8	0.15	100.0	0.00	0.0000
9.04	23.6	0.15	100.0	0.00	0.0000
9.89	21.6	0.15	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	0.17	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	0.17	100.0	0.00	0.0000
18.5	11.5	0.19	100.0	0.00	0.0000
20.3	10.5	0.19	100.0	0.00	0.0000
22.2	9.61	0.21	100.0	0.00	0.0000
24.3	8.78	0.21	100.0	0.00	0.0000
26.6	8.02	0.21	100.0	0.00	0.0000
29.0	7.36	0.23	100.0	0.00	0.0000
31.8	6.71	0.23	100.0	0.00	0.0000
34.8	6.13	0.25	100.0	0.00	0.0000
38.0	5.61	0.27	100.0	0.00	0.0000

Table 10 (cont.). MICP data for sample 07JRM009 - 19.7a.

Mercury Injection Capillary Pressure
07JRM009 - 19.7a

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	0.29	100.0	0.00	0.0000
45.5	4.69	0.32	100.0	0.00	0.0000
49.8	4.28	0.32	100.0	0.00	0.0000
54.5	3.91	0.32	100.0	0.00	0.0000
59.6	3.58	0.32	100.0	0.00	0.0000
65.2	3.27	0.34	100.0	0.00	0.0000
71.3	2.99	0.34	100.0	0.00	0.0000
78.0	2.73	0.34	100.0	0.00	0.0000
85.3	2.50	0.34	100.0	0.00	0.0000
93.4	2.28	0.34	100.0	0.00	0.0000
102	2.09	0.34	100.0	0.00	0.0000
112	1.90	0.36	100.0	0.00	0.0000
122	1.75	0.36	100.0	0.00	0.0000
134	1.59	0.36	100.0	0.00	0.0000
146	1.46	0.38	100.0	0.00	0.0000
160	1.33	0.38	100.0	0.00	0.0000
175	1.22	0.38	100.0	0.00	0.0000
191	1.12	0.40	100.0	0.00	0.0000
209	1.02	0.40	100.0	0.00	0.0000
229	0.932	0.42	100.0	0.00	0.0000
251	0.850	0.44	100.0	0.00	0.0000
274	0.779	0.46	100.0	0.00	0.0000
300	0.711	0.48	100.0	0.00	0.0000
328	0.650	0.51	100.0	0.00	0.0000
359	0.594	0.55	100.0	0.00	0.0000
393	0.543	0.57	100.0	0.00	0.0000
430	0.496	0.61	100.0	0.00	0.0000
470	0.454	0.67	99.7	0.29	0.0073
514	0.415	0.86	98.8	0.88	0.0200
563	0.379	1.37	96.5	2.35	0.0479
615	0.347	2.57	90.9	5.58	0.1073
673	0.317	4.40	82.4	8.51	0.1468
736	0.290	6.17	74.2	8.22	0.1305
806	0.265	7.83	66.4	7.73	0.1104
881	0.242	9.24	59.9	6.56	0.0874
964	0.221	10.21	55.4	4.50	0.0542
1050	0.203	11.03	51.6	3.82	0.0444
1150	0.186	11.85	47.7	3.82	0.0382
1260	0.169	12.63	44.1	3.62	0.0329
1380	0.155	13.30	41.0	3.13	0.0261
1510	0.141	13.91	38.2	2.84	0.0218
1650	0.129	14.44	35.7	2.45	0.0175

Table 10 (cont.). MICP data for sample 07JRM009 - 19.7a.

Mercury Injection Capillary Pressure
07JRM009 - 19.7a

Capillary Pressure (psia)	Pore Aperture Diameter (microns)	Cumulative Bulk Vol. (%)	Wetting Phase Saturation (%)	Incremental Wetting Phase Change (%)	Saturation Change per psia
1810	0.1179	14.92	33.5	2.25	0.0141
1980	0.1077	15.38	31.3	2.15	0.0127
2160	0.0988	15.80	29.4	1.96	0.0109
2370	0.0900	16.22	27.4	1.96	0.0093
2590	0.0824	16.60	25.6	1.76	0.0080
2830	0.0754	16.96	24.0	1.66	0.0069
3100	0.0688	17.32	22.3	1.66	0.0062
3390	0.0629	17.63	20.8	1.47	0.0051
3710	0.0575	17.93	19.5	1.37	0.0043
4060	0.0525	18.18	18.3	1.17	0.0034
4440	0.0480	18.46	17.0	1.27	0.0033
4850	0.0440	18.69	15.9	1.08	0.0026
5310	0.0402	18.90	15.0	0.98	0.0021
5810	0.0367	19.11	14.0	0.98	0.0020
6360	0.0335	19.30	13.1	0.88	0.0016
6950	0.0307	19.51	12.1	0.98	0.0017
7610	0.0280	19.70	11.3	0.88	0.0013
8320	0.0256	19.87	10.5	0.78	0.0011
9100	0.0234	20.03	9.7	0.78	0.0010
9960	0.0214	20.18	9.0	0.68	0.0008
10900	0.0196	20.33	8.3	0.68	0.0007
11900	0.0179	20.48	7.6	0.68	0.0007
13000	0.0164	20.60	7.0	0.59	0.0005
14300	0.0149	20.73	6.5	0.59	0.0005
15600	0.0137	20.85	5.9	0.59	0.0005
17100	0.0125	20.98	5.3	0.59	0.0004
18700	0.0114	21.09	4.8	0.49	0.0003
20400	0.0105	21.19	4.3	0.49	0.0003
22300	0.0096	21.28	3.9	0.39	0.0002
24400	0.0087	21.38	3.4	0.49	0.0002
26700	0.0080	21.49	2.9	0.49	0.0002
29300	0.0073	21.57	2.5	0.39	0.0002
32000	0.0067	21.63	2.3	0.29	0.0001
35000	0.0061	21.72	1.9	0.39	0.0001
38300	0.0056	21.78	1.6	0.29	0.0001
41900	0.0051	21.86	1.2	0.39	0.0001
45800	0.0047	21.91	1.0	0.20	0.0001
50100	0.0043	21.97	0.7	0.29	0.0001
54800	0.0039	22.05	0.3	0.39	0.0001
59500	0.0036	22.12	0.0	0.29	0.0001

Table 11. MICP data for sample 07JRM010 - 34.9a.

Mercury Injection Capillary Pressure
07JRM010 - 34.9a

Sample Information			
Bulk Volume =	5.7696 cc	Porosity =	23.3% (mercury)
Pore Volume =	1.3428 cc	Permeability =	0.0901 md (mercury)
Closure = 0.69 %BV @ 673 psia		Median Pore Aperture = 0.1188 microns (diameter)	

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	0.02	100.0	0.00	0.0000
2.81	75.9	0.02	100.0	0.00	0.0000
3.08	69.3	0.02	100.0	0.00	0.0000
3.37	63.3	0.04	100.0	0.00	0.0000
3.68	58.0	0.04	100.0	0.00	0.0000
4.03	52.9	0.04	100.0	0.00	0.0000
4.41	48.4	0.04	100.0	0.00	0.0000
4.82	44.3	0.04	100.0	0.00	0.0000
5.27	40.5	0.04	100.0	0.00	0.0000
5.77	37.0	0.06	100.0	0.00	0.0000
6.31	33.8	0.06	100.0	0.00	0.0000
6.90	30.9	0.06	100.0	0.00	0.0000
7.55	28.3	0.08	100.0	0.00	0.0000
8.26	25.8	0.08	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	0.12	100.0	0.00	0.0000
12.9	16.5	0.12	100.0	0.00	0.0000
14.2	15.0	0.12	100.0	0.00	0.0000
15.5	13.8	0.14	100.0	0.00	0.0000
16.9	12.6	0.14	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	0.16	100.0	0.00	0.0000
24.3	8.78	0.18	100.0	0.00	0.0000
26.6	8.02	0.18	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	0.24	100.0	0.00	0.0000

Table 11 (cont.). MICP data for sample 07JRM010 - 34.9a.

Mercury Injection Capillary Pressure
07JRM010 - 34.9a

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	0.26	100.0	0.00	0.0000
45.5	4.69	0.28	100.0	0.00	0.0000
49.8	4.28	0.28	100.0	0.00	0.0000
54.5	3.91	0.28	100.0	0.00	0.0000
59.6	3.58	0.28	100.0	0.00	0.0000
65.2	3.27	0.28	100.0	0.00	0.0000
71.3	2.99	0.28	100.0	0.00	0.0000
78.0	2.73	0.30	100.0	0.00	0.0000
85.3	2.50	0.30	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	0.32	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	0.34	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	0.36	100.0	0.00	0.0000
209	1.02	0.36	100.0	0.00	0.0000
229	0.932	0.38	100.0	0.00	0.0000
251	0.850	0.38	100.0	0.00	0.0000
274	0.779	0.40	100.0	0.00	0.0000
300	0.711	0.42	100.0	0.00	0.0000
328	0.650	0.42	100.0	0.00	0.0000
359	0.594	0.44	100.0	0.00	0.0000
393	0.543	0.47	100.0	0.00	0.0000
430	0.496	0.49	100.0	0.00	0.0000
470	0.454	0.53	100.0	0.00	0.0000
514	0.415	0.55	100.0	0.00	0.0000
563	0.379	0.59	100.0	0.00	0.0000
615	0.347	0.63	100.0	0.00	0.0000
673	0.317	0.69	100.0	0.00	0.0000
736	0.290	0.77	99.7	0.35	0.0055
806	0.265	0.97	98.8	0.87	0.0124
881	0.242	1.42	96.9	1.91	0.0255
964	0.221	2.85	90.7	6.17	0.0744
1050	0.203	4.31	84.4	6.26	0.0728
1150	0.186	6.51	75.0	9.48	0.0948
1260	0.169	8.33	67.1	7.83	0.0711
1380	0.155	9.50	62.1	5.04	0.0420
1510	0.141	10.53	57.7	4.43	0.0341
1650	0.129	11.48	53.6	4.09	0.0292

Table 11 (cont.). MICP data for sample 07JRM010 - 34.9a.

Mercury Injection Capillary Pressure
07JRM010 - 34.9a

Capillary Pressure (psia)	Pore Aperture Diameter (microns)	Cumulative Bulk Vol. (%)	Wetting Phase Saturation (%)	Incremental Wetting Phase Change (%)	Saturation Change per psia
1810	0.1179	12.39	49.7	3.91	0.0245
1980	0.1077	13.22	46.1	3.57	0.0210
2160	0.0988	13.97	42.9	3.22	0.0179
2370	0.0900	14.70	39.7	3.13	0.0149
2590	0.0824	15.35	37.0	2.78	0.0126
2830	0.0754	15.97	34.3	2.70	0.0112
3100	0.0688	16.58	31.7	2.61	0.0097
3390	0.0629	17.13	29.3	2.35	0.0081
3710	0.0575	17.63	27.1	2.17	0.0068
4060	0.0525	18.12	25.0	2.09	0.0060
4440	0.0480	18.56	23.1	1.91	0.0050
4850	0.0440	18.93	21.6	1.57	0.0038
5310	0.0402	19.31	19.9	1.65	0.0036
5810	0.0367	19.67	18.3	1.57	0.0031
6360	0.0335	20.00	17.0	1.39	0.0025
6950	0.0307	20.30	15.7	1.30	0.0022
7610	0.0280	20.60	14.3	1.30	0.0020
8320	0.0256	20.87	13.2	1.13	0.0016
9100	0.0234	21.11	12.2	1.04	0.0013
9960	0.0214	21.33	11.2	0.96	0.0011
10900	0.0196	21.55	10.3	0.96	0.0010
11900	0.0179	21.76	9.4	0.87	0.0009
13000	0.0164	21.94	8.6	0.78	0.0007
14300	0.0149	22.12	7.8	0.78	0.0006
15600	0.0137	22.28	7.1	0.70	0.0005
17100	0.0125	22.44	6.4	0.70	0.0005
18700	0.0114	22.59	5.8	0.61	0.0004
20400	0.0105	22.73	5.2	0.61	0.0004
22300	0.0096	22.87	4.6	0.61	0.0003
24400	0.0087	22.99	4.1	0.52	0.0002
26700	0.0080	23.11	3.6	0.52	0.0002
29300	0.0073	23.23	3.0	0.52	0.0002
32000	0.0067	23.33	2.6	0.43	0.0002
35000	0.0061	23.43	2.2	0.43	0.0001
38300	0.0056	23.54	1.7	0.43	0.0001
41900	0.0051	23.62	1.4	0.35	0.0001
45800	0.0047	23.70	1.0	0.35	0.0001
50100	0.0043	23.78	0.7	0.35	0.0001
54800	0.0039	23.84	0.4	0.26	0.0001
59500	0.0036	23.94	0.0	0.43	0.0001

Table 12. MICP data for sample 07JRM011 - 24.7a.

Mercury Injection Capillary Pressure
07JRM011 - 24.7a

Sample Information			
Bulk Volume =	8.1398 cc	Porosity =	34.0% (mercury)
Pore Volume =	2.7671 cc	Permeability =	0.150 md (mercury)
Closure = 0.44 %BV @ 359 psia		Median Pore Aperture = 0.1117 microns (diameter)	

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	0.02	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	0.04	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	0.04	100.0	0.00	0.0000
3.37	63.3	0.04	100.0	0.00	0.0000
3.68	58.0	0.04	100.0	0.00	0.0000
4.03	52.9	0.06	100.0	0.00	0.0000
4.41	48.4	0.06	100.0	0.00	0.0000
4.82	44.3	0.06	100.0	0.00	0.0000
5.27	40.5	0.06	100.0	0.00	0.0000
5.77	37.0	0.06	100.0	0.00	0.0000
6.31	33.8	0.06	100.0	0.00	0.0000
6.90	30.9	0.06	100.0	0.00	0.0000
7.55	28.3	0.06	100.0	0.00	0.0000
8.26	25.8	0.06	100.0	0.00	0.0000
9.04	23.6	0.06	100.0	0.00	0.0000
9.89	21.6	0.06	100.0	0.00	0.0000
10.8	19.8	0.09	100.0	0.00	0.0000
11.8	18.1	0.11	100.0	0.00	0.0000
12.9	16.5	0.11	100.0	0.00	0.0000
14.2	15.0	0.11	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	0.15	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	0.17	100.0	0.00	0.0000
31.8	6.71	0.17	100.0	0.00	0.0000
34.8	6.13	0.19	100.0	0.00	0.0000
38.0	5.61	0.19	100.0	0.00	0.0000

Table 12 (cont.). MICP data for sample 07JRM011 - 24.7a.

Mercury Injection Capillary Pressure
07JRM011 - 24.7a

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	0.19	100.0	0.00	0.0000
45.5	4.69	0.21	100.0	0.00	0.0000
49.8	4.28	0.21	100.0	0.00	0.0000
54.5	3.91	0.21	100.0	0.00	0.0000
59.6	3.58	0.21	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	0.23	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	0.27	100.0	0.00	0.0000
160	1.33	0.27	100.0	0.00	0.0000
175	1.22	0.27	100.0	0.00	0.0000
191	1.12	0.28	100.0	0.00	0.0000
209	1.02	0.28	100.0	0.00	0.0000
229	0.932	0.30	100.0	0.00	0.0000
251	0.850	0.30	100.0	0.00	0.0000
274	0.779	0.32	100.0	0.00	0.0000
300	0.711	0.34	100.0	0.00	0.0000
328	0.650	0.38	100.0	0.00	0.0000
359	0.594	0.44	100.0	0.00	0.0000
393	0.543	0.51	99.8	0.22	0.0066
430	0.496	0.64	99.4	0.39	0.0106
470	0.454	0.83	98.8	0.56	0.0140
514	0.415	1.19	97.8	1.06	0.0241
563	0.379	1.63	96.5	1.28	0.0262
615	0.347	2.60	93.6	2.85	0.0547
673	0.317	3.32	91.5	2.12	0.0366
736	0.290	4.24	88.8	2.73	0.0434
806	0.265	5.08	86.3	2.46	0.0351
881	0.242	5.91	83.9	2.46	0.0327
964	0.221	6.90	81.0	2.90	0.0350
1050	0.203	7.96	77.8	3.13	0.0363
1150	0.186	9.42	73.5	4.30	0.0430
1260	0.169	11.09	68.6	4.91	0.0446
1380	0.155	12.79	63.6	5.02	0.0419
1510	0.141	14.27	59.3	4.35	0.0335
1650	0.129	15.56	55.5	3.79	0.0271

Table 12 (cont.). MICP data for sample 07JRM011 - 24.7a.

Mercury Injection Capillary Pressure
07JRM011 - 24.7a

Capillary Pressure (psia)	Pore Aperture Diameter (microns)	Cumulative Bulk Vol. (%)	Wetting Phase Saturation (%)	Incremental Wetting Phase Change (%)	Saturation Change per psia
1810	0.1179	16.73	52.0	3.46	0.0216
1980	0.1077	17.87	48.7	3.35	0.0197
2160	0.0988	18.95	45.5	3.18	0.0177
2370	0.0900	20.07	42.2	3.29	0.0157
2590	0.0824	21.13	39.1	3.13	0.0142
2830	0.0754	22.15	36.0	3.01	0.0126
3100	0.0688	23.14	33.1	2.90	0.0107
3390	0.0629	24.12	30.2	2.90	0.0100
3710	0.0575	25.05	27.5	2.73	0.0085
4060	0.0525	25.92	24.9	2.57	0.0073
4440	0.0480	26.76	22.5	2.46	0.0065
4850	0.0440	27.42	20.5	1.95	0.0048
5310	0.0402	28.10	18.5	2.01	0.0044
5810	0.0367	28.75	16.6	1.90	0.0038
6360	0.0335	29.22	15.2	1.40	0.0025
6950	0.0307	29.67	13.9	1.34	0.0023
7610	0.0280	30.09	12.7	1.23	0.0019
8320	0.0256	30.43	11.7	1.00	0.0014
9100	0.0234	30.75	10.7	0.95	0.0012
9960	0.0214	31.04	9.9	0.84	0.0010
10900	0.0196	31.28	9.2	0.73	0.0008
11900	0.0179	31.53	8.4	0.73	0.0007
13000	0.0164	31.74	7.8	0.61	0.0006
14300	0.0149	31.97	7.1	0.67	0.0005
15600	0.0137	32.16	6.6	0.56	0.0004
17100	0.0125	32.35	6.0	0.56	0.0004
18700	0.0114	32.52	5.5	0.50	0.0003
20400	0.0105	32.69	5.0	0.50	0.0003
22300	0.0096	32.86	4.5	0.50	0.0003
24400	0.0087	33.03	4.0	0.50	0.0002
26700	0.0080	33.18	3.6	0.45	0.0002
29300	0.0073	33.33	3.1	0.45	0.0002
32000	0.0067	33.48	2.7	0.45	0.0002
35000	0.0061	33.63	2.2	0.45	0.0001
38300	0.0056	33.77	1.8	0.39	0.0001
41900	0.0051	33.88	1.5	0.33	0.0001
45800	0.0047	34.01	1.1	0.39	0.0001
50100	0.0043	34.13	0.8	0.33	0.0001
54800	0.0039	34.24	0.4	0.33	0.0001
59500	0.0036	34.39	0.0	0.45	0.0001

Table 13. MICP data for sample 07DL002 - 17.2a.

Mercury Injection Capillary Pressure
07DL002 - 17.2a

Sample Information			
Bulk Volume =	6.5217 cc	Porosity =	24.3% (mercury)
Pore Volume =	1.5831 cc	Permeability =	0.137 md (mercury)
Closure = 0.42 %BV @ 229 psia		Median Pore Aperture = 0.1452 microns (diameter)	

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	0.02	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	0.04	100.0	0.00	0.0000
2.81	75.9	0.04	100.0	0.00	0.0000
3.08	69.3	0.04	100.0	0.00	0.0000
3.37	63.3	0.04	100.0	0.00	0.0000
3.68	58.0	0.04	100.0	0.00	0.0000
4.03	52.9	0.06	100.0	0.00	0.0000
4.41	48.4	0.06	100.0	0.00	0.0000
4.82	44.3	0.06	100.0	0.00	0.0000
5.27	40.5	0.06	100.0	0.00	0.0000
5.77	37.0	0.06	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	0.08	100.0	0.00	0.0000
8.26	25.8	0.08	100.0	0.00	0.0000
9.04	23.6	0.08	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	0.10	100.0	0.00	0.0000
15.5	13.8	0.12	100.0	0.00	0.0000
16.9	12.6	0.12	100.0	0.00	0.0000
18.5	11.5	0.12	100.0	0.00	0.0000
20.3	10.5	0.12	100.0	0.00	0.0000
22.2	9.61	0.14	100.0	0.00	0.0000
24.3	8.78	0.14	100.0	0.00	0.0000
26.6	8.02	0.14	100.0	0.00	0.0000
29.0	7.36	0.14	100.0	0.00	0.0000
31.8	6.71	0.16	100.0	0.00	0.0000
34.8	6.13	0.16	100.0	0.00	0.0000
38.0	5.61	0.18	100.0	0.00	0.0000

Table 13 (cont.). MICP data for sample 07DL002 - 17.2a.

Mercury Injection Capillary Pressure
07DL002 - 17.2a

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	0.18	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	0.22	100.0	0.00	0.0000
71.3	2.99	0.22	100.0	0.00	0.0000
78.0	2.73	0.22	100.0	0.00	0.0000
85.3	2.50	0.22	100.0	0.00	0.0000
93.4	2.28	0.22	100.0	0.00	0.0000
102	2.09	0.24	100.0	0.00	0.0000
112	1.90	0.24	100.0	0.00	0.0000
122	1.75	0.26	100.0	0.00	0.0000
134	1.59	0.26	100.0	0.00	0.0000
146	1.46	0.26	100.0	0.00	0.0000
160	1.33	0.28	100.0	0.00	0.0000
175	1.22	0.30	100.0	0.00	0.0000
191	1.12	0.34	100.0	0.00	0.0000
209	1.02	0.38	100.0	0.00	0.0000
229	0.932	0.42	100.0	0.00	0.0000
251	0.850	0.50	99.7	0.33	0.0151
274	0.779	0.66	99.0	0.66	0.0289
300	0.711	0.81	98.4	0.58	0.0224
328	0.650	1.03	97.5	0.91	0.0326
359	0.594	1.37	96.1	1.41	0.0455
393	0.543	1.79	94.4	1.74	0.0513
430	0.496	2.27	92.4	1.99	0.0539
470	0.454	2.84	90.0	2.33	0.0581
514	0.415	3.46	87.5	2.57	0.0585
563	0.379	4.19	84.5	2.99	0.0610
615	0.347	4.95	81.3	3.16	0.0607
673	0.317	5.56	78.8	2.49	0.0430
736	0.290	6.28	75.8	2.99	0.0475
806	0.265	6.94	73.1	2.74	0.0392
881	0.242	7.69	70.0	3.07	0.0410
964	0.221	8.51	66.6	3.41	0.0410
1050	0.203	9.34	63.2	3.41	0.0396
1150	0.186	10.27	59.4	3.82	0.0382
1260	0.169	11.21	55.5	3.90	0.0355
1380	0.155	12.04	52.1	3.41	0.0284
1510	0.141	12.76	49.1	2.99	0.0230
1650	0.129	13.41	46.4	2.66	0.0190

Table 13 (cont.). MICP data for sample 07DL002 - 17.2a.

Mercury Injection Capillary Pressure
07DL002 - 17.2a

Capillary Pressure (psia)	Pore Aperture Diameter (microns)	Cumulative Bulk Vol. (%)	Wetting Phase Saturation (%)	Incremental Wetting Phase Change (%)	Saturation Change per psia
1810	0.1179	14.05	43.8	2.66	0.0166
1980	0.1077	14.65	41.3	2.49	0.0147
2160	0.0988	15.20	39.0	2.24	0.0125
2370	0.0900	15.76	36.7	2.33	0.0111
2590	0.0824	16.26	34.6	2.08	0.0094
2830	0.0754	16.73	32.7	1.91	0.0080
3100	0.0688	17.19	30.8	1.91	0.0071
3390	0.0629	17.61	29.1	1.74	0.0060
3710	0.0575	17.99	27.5	1.58	0.0049
4060	0.0525	18.38	25.9	1.58	0.0045
4440	0.0480	18.72	24.5	1.41	0.0037
4850	0.0440	19.00	23.3	1.16	0.0028
5310	0.0402	19.30	22.1	1.25	0.0027
5810	0.0367	19.60	20.8	1.25	0.0025
6360	0.0335	19.87	19.8	1.08	0.0020
6950	0.0307	20.13	18.7	1.08	0.0018
7610	0.0280	20.39	17.6	1.08	0.0016
8320	0.0256	20.63	16.6	1.00	0.0014
9100	0.0234	20.87	15.6	1.00	0.0013
9960	0.0214	21.11	14.6	1.00	0.0012
10900	0.0196	21.36	13.6	1.00	0.0011
11900	0.0179	21.60	12.6	1.00	0.0010
13000	0.0164	21.82	11.7	0.91	0.0008
14300	0.0149	22.08	10.6	1.08	0.0008
15600	0.0137	22.30	9.7	0.91	0.0007
17100	0.0125	22.52	8.8	0.91	0.0006
18700	0.0114	22.74	7.9	0.91	0.0006
20400	0.0105	22.95	7.1	0.83	0.0005
22300	0.0096	23.13	6.3	0.75	0.0004
24400	0.0087	23.31	5.6	0.75	0.0004
26700	0.0080	23.49	4.8	0.75	0.0003
29300	0.0073	23.65	4.2	0.66	0.0003
32000	0.0067	23.81	3.5	0.66	0.0002
35000	0.0061	23.95	2.9	0.58	0.0002
38300	0.0056	24.07	2.4	0.50	0.0002
41900	0.0051	24.19	1.9	0.50	0.0001
45800	0.0047	24.31	1.4	0.50	0.0001
50100	0.0043	24.44	0.9	0.50	0.0001
54800	0.0039	24.56	0.4	0.50	0.0001
59500	0.0036	24.66	0.0	0.42	0.0001

Table 14. MICP data for sample 07DL002 - 22.0a.

Mercury Injection Capillary Pressure
07DL002 - 22.0a

Sample Information			
Bulk Volume =	5.0487 cc	Porosity =	25.0% (mercury)
Pore Volume =	1.2628 cc	Permeability =	0.171 md (mercury)
Closure = 0.71 %BV @ 112 psia		Median Pore Aperture = 0.1238 microns (diameter)	

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	0.02	100.0	0.00	0.0000
1.96	109	0.04	100.0	0.00	0.0000
2.15	99.2	0.04	100.0	0.00	0.0000
2.35	90.8	0.06	100.0	0.00	0.0000
2.57	83.0	0.08	100.0	0.00	0.0000
2.81	75.9	0.08	100.0	0.00	0.0000
3.08	69.3	0.10	100.0	0.00	0.0000
3.37	63.3	0.10	100.0	0.00	0.0000
3.68	58.0	0.12	100.0	0.00	0.0000
4.03	52.9	0.12	100.0	0.00	0.0000
4.41	48.4	0.14	100.0	0.00	0.0000
4.82	44.3	0.14	100.0	0.00	0.0000
5.27	40.5	0.16	100.0	0.00	0.0000
5.77	37.0	0.16	100.0	0.00	0.0000
6.31	33.8	0.18	100.0	0.00	0.0000
6.90	30.9	0.18	100.0	0.00	0.0000
7.55	28.3	0.20	100.0	0.00	0.0000
8.26	25.8	0.20	100.0	0.00	0.0000
9.04	23.6	0.20	100.0	0.00	0.0000
9.89	21.6	0.22	100.0	0.00	0.0000
10.8	19.8	0.22	100.0	0.00	0.0000
11.8	18.1	0.24	100.0	0.00	0.0000
12.9	16.5	0.24	100.0	0.00	0.0000
14.2	15.0	0.26	100.0	0.00	0.0000
15.5	13.8	0.28	100.0	0.00	0.0000
16.9	12.6	0.30	100.0	0.00	0.0000
18.5	11.5	0.30	100.0	0.00	0.0000
20.3	10.5	0.32	100.0	0.00	0.0000
22.2	9.61	0.32	100.0	0.00	0.0000
24.3	8.78	0.34	100.0	0.00	0.0000
26.6	8.02	0.36	100.0	0.00	0.0000
29.0	7.36	0.38	100.0	0.00	0.0000
31.8	6.71	0.40	100.0	0.00	0.0000
34.8	6.13	0.42	100.0	0.00	0.0000
38.0	5.61	0.42	100.0	0.00	0.0000

Table 14 (cont.). MICP data for sample 07DL002 - 22.0a.

Mercury Injection Capillary Pressure
07DL002 - 22.0a

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	0.46	100.0	0.00	0.0000
45.5	4.69	0.48	100.0	0.00	0.0000
49.8	4.28	0.48	100.0	0.00	0.0000
54.5	3.91	0.50	100.0	0.00	0.0000
59.6	3.58	0.50	100.0	0.00	0.0000
65.2	3.27	0.52	100.0	0.00	0.0000
71.3	2.99	0.54	100.0	0.00	0.0000
78.0	2.73	0.54	100.0	0.00	0.0000
85.3	2.50	0.55	100.0	0.00	0.0000
93.4	2.28	0.59	100.0	0.00	0.0000
102	2.09	0.63	100.0	0.00	0.0000
112	1.90	0.71	100.0	0.00	0.0000
122	1.75	0.79	99.7	0.32	0.0317
134	1.59	0.91	99.2	0.48	0.0397
146	1.46	1.09	98.5	0.71	0.0595
160	1.33	1.33	97.5	0.95	0.0680
175	1.22	1.57	96.6	0.95	0.0634
191	1.12	1.78	95.7	0.87	0.0545
209	1.02	2.00	94.8	0.87	0.0485
229	0.932	2.26	93.8	1.03	0.0515
251	0.850	2.54	92.7	1.11	0.0505
274	0.779	2.79	91.7	1.03	0.0448
300	0.711	3.01	90.8	0.87	0.0336
328	0.650	3.27	89.8	1.03	0.0368
359	0.594	3.55	88.7	1.11	0.0358
393	0.543	3.81	87.6	1.03	0.0303
430	0.496	4.08	86.5	1.11	0.0300
470	0.454	4.36	85.4	1.11	0.0278
514	0.415	4.70	84.1	1.35	0.0306
563	0.379	4.99	82.9	1.19	0.0243
615	0.347	5.37	81.4	1.51	0.0290
673	0.317	5.81	79.6	1.74	0.0301
736	0.290	6.32	77.6	2.06	0.0327
806	0.265	7.02	74.8	2.78	0.0397
881	0.242	7.79	71.7	3.09	0.0412
964	0.221	8.50	68.8	2.85	0.0344
1050	0.203	9.24	65.9	2.93	0.0341
1150	0.186	10.05	62.6	3.25	0.0325
1260	0.169	10.82	59.6	3.09	0.0281
1380	0.155	11.53	56.7	2.85	0.0238
1510	0.141	12.21	54.0	2.70	0.0207
1650	0.129	12.88	51.3	2.70	0.0193

Table 14 (cont.). MICP data for sample 07DL002 - 22.0a.

Mercury Injection Capillary Pressure
07DL002 - 22.0a

Capillary Pressure (psia)	Pore Aperture Diameter (microns)	Cumulative Bulk Vol. (%)	Wetting Phase Saturation (%)	Incremental Wetting Phase Change (%)	Saturation Change per psia
1810	0.1179	13.56	48.6	2.70	0.0169
1980	0.1077	14.21	46.0	2.62	0.0154
2160	0.0988	14.82	43.5	2.46	0.0137
2370	0.0900	15.48	40.9	2.62	0.0125
2590	0.0824	16.09	38.5	2.46	0.0112
2830	0.0754	16.67	36.2	2.30	0.0096
3100	0.0688	17.24	33.9	2.30	0.0085
3390	0.0629	17.76	31.8	2.06	0.0071
3710	0.0575	18.25	29.8	1.98	0.0062
4060	0.0525	18.71	28.0	1.82	0.0052
4440	0.0480	19.13	26.3	1.67	0.0044
4850	0.0440	19.46	25.0	1.35	0.0033
5310	0.0402	19.82	23.6	1.43	0.0031
5810	0.0367	20.16	22.2	1.35	0.0027
6360	0.0335	20.47	20.9	1.27	0.0023
6950	0.0307	20.75	19.8	1.11	0.0019
7610	0.0280	21.03	18.7	1.11	0.0017
8320	0.0256	21.31	17.6	1.11	0.0016
9100	0.0234	21.56	16.6	1.03	0.0013
9960	0.0214	21.82	15.5	1.03	0.0012
10900	0.0196	22.08	14.5	1.03	0.0011
11900	0.0179	22.32	13.6	0.95	0.0010
13000	0.0164	22.55	12.6	0.95	0.0009
14300	0.0149	22.81	11.6	1.03	0.0008
15600	0.0137	23.05	10.6	0.95	0.0007
17100	0.0125	23.29	9.7	0.95	0.0006
18700	0.0114	23.53	8.7	0.95	0.0006
20400	0.0105	23.72	7.9	0.79	0.0005
22300	0.0096	23.94	7.1	0.87	0.0005
24400	0.0087	24.14	6.3	0.79	0.0004
26700	0.0080	24.34	5.5	0.79	0.0003
29300	0.0073	24.52	4.8	0.71	0.0003
32000	0.0067	24.67	4.1	0.63	0.0002
35000	0.0061	24.83	3.5	0.63	0.0002
38300	0.0056	24.99	2.9	0.63	0.0002
41900	0.0051	25.13	2.3	0.56	0.0002
45800	0.0047	25.27	1.7	0.56	0.0001
50100	0.0043	25.39	1.3	0.48	0.0001
54800	0.0039	25.53	0.7	0.56	0.0001
59500	0.0036	25.71	0.0	0.71	0.0002

Table 15. MICP data for sample 07MAW04 - 0.6.

Mercury Injection Capillary Pressure
07MAW04 - 0.6

Sample Information			
Bulk Volume =	8.6502 cc	Porosity =	26.6% (mercury)
Pore Volume =	2.2026 cc	Permeability =	0.134 md (mercury)
Closure = 0.85 %BV @ 673 psia		Median Pore Aperture = 0.1312 microns (diameter)	

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	0.02	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	0.04	100.0	0.00	0.0000
2.81	75.9	0.04	100.0	0.00	0.0000
3.08	69.3	0.04	100.0	0.00	0.0000
3.37	63.3	0.04	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	0.06	100.0	0.00	0.0000
4.82	44.3	0.06	100.0	0.00	0.0000
5.27	40.5	0.06	100.0	0.00	0.0000
5.77	37.0	0.06	100.0	0.00	0.0000
6.31	33.8	0.06	100.0	0.00	0.0000
6.90	30.9	0.06	100.0	0.00	0.0000
7.55	28.3	0.06	100.0	0.00	0.0000
8.26	25.8	0.08	100.0	0.00	0.0000
9.04	23.6	0.08	100.0	0.00	0.0000
9.89	21.6	0.08	100.0	0.00	0.0000
10.8	19.8	0.08	100.0	0.00	0.0000
11.8	18.1	0.08	100.0	0.00	0.0000
12.9	16.5	0.08	100.0	0.00	0.0000
14.2	15.0	0.08	100.0	0.00	0.0000
15.5	13.8	0.10	100.0	0.00	0.0000
16.9	12.6	0.10	100.0	0.00	0.0000
18.5	11.5	0.10	100.0	0.00	0.0000
20.3	10.5	0.12	100.0	0.00	0.0000
22.2	9.61	0.12	100.0	0.00	0.0000
24.3	8.78	0.12	100.0	0.00	0.0000
26.6	8.02	0.14	100.0	0.00	0.0000
29.0	7.36	0.16	100.0	0.00	0.0000
31.8	6.71	0.16	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

Table 15 (cont.). MICP data for sample 07MAW04 - 0.6.

Mercury Injection Capillary Pressure
07MAW04 - 0.6

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	0.24	100.0	0.00	0.0000
49.8	4.28	0.24	100.0	0.00	0.0000
54.5	3.91	0.24	100.0	0.00	0.0000
59.6	3.58	0.24	100.0	0.00	0.0000
65.2	3.27	0.24	100.0	0.00	0.0000
71.3	2.99	0.24	100.0	0.00	0.0000
78.0	2.73	0.24	100.0	0.00	0.0000
85.3	2.50	0.26	100.0	0.00	0.0000
93.4	2.28	0.26	100.0	0.00	0.0000
102	2.09	0.26	100.0	0.00	0.0000
112	1.90	0.26	100.0	0.00	0.0000
122	1.75	0.26	100.0	0.00	0.0000
134	1.59	0.26	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	0.29	100.0	0.00	0.0000
209	1.02	0.31	100.0	0.00	0.0000
229	0.932	0.33	100.0	0.00	0.0000
251	0.850	0.33	100.0	0.00	0.0000
274	0.779	0.35	100.0	0.00	0.0000
300	0.711	0.37	100.0	0.00	0.0000
328	0.650	0.37	100.0	0.00	0.0000
359	0.594	0.41	100.0	0.00	0.0000
393	0.543	0.43	100.0	0.00	0.0000
430	0.496	0.47	100.0	0.00	0.0000
470	0.454	0.51	100.0	0.00	0.0000
514	0.415	0.55	100.0	0.00	0.0000
563	0.379	0.63	100.0	0.00	0.0000
615	0.347	0.71	100.0	0.00	0.0000
673	0.317	0.85	100.0	0.00	0.0000
736	0.290	1.08	99.1	0.89	0.0141
806	0.265	1.44	97.8	1.33	0.0190
881	0.242	2.06	95.4	2.36	0.0315
964	0.221	3.83	88.8	6.65	0.0801
1050	0.203	5.88	81.1	7.68	0.0893
1150	0.186	8.61	70.8	10.27	0.1027
1260	0.169	10.52	63.7	7.16	0.0651
1380	0.155	12.05	57.9	5.76	0.0480
1510	0.141	13.31	53.2	4.73	0.0364
1650	0.129	14.35	49.3	3.91	0.0280

Table 15 (cont.). MICP data for sample 07MAW04 - 0.6.

Mercury Injection Capillary Pressure
07MAW04 - 0.6

Capillary Pressure (psia)	Pore Aperture Diameter (microns)	Cumulative Bulk Vol. (%)	Wetting Phase Saturation (%)	Incremental Wetting Phase Change (%)	Saturation Change per psia
1810	0.1179	15.41	45.3	3.99	0.0249
1980	0.1077	16.42	41.5	3.77	0.0222
2160	0.0988	17.28	38.3	3.25	0.0181
2370	0.0900	18.17	34.9	3.32	0.0158
2590	0.0824	18.93	32.1	2.88	0.0131
2830	0.0754	19.64	29.4	2.66	0.0111
3100	0.0688	20.31	26.9	2.51	0.0093
3390	0.0629	20.92	24.6	2.29	0.0079
3710	0.0575	21.47	22.5	2.07	0.0065
4060	0.0525	21.96	20.7	1.85	0.0053
4440	0.0480	22.41	19.0	1.70	0.0045
4850	0.0440	22.77	17.7	1.33	0.0032
5310	0.0402	23.14	16.2	1.40	0.0031
5810	0.0367	23.47	15.0	1.26	0.0025
6360	0.0335	23.77	13.9	1.11	0.0020
6950	0.0307	24.04	12.9	1.03	0.0018
7610	0.0280	24.28	12.0	0.89	0.0013
8320	0.0256	24.52	11.1	0.89	0.0012
9100	0.0234	24.73	10.3	0.81	0.0010
9960	0.0214	24.95	9.5	0.81	0.0009
10900	0.0196	25.13	8.8	0.66	0.0007
11900	0.0179	25.30	8.1	0.66	0.0007
13000	0.0164	25.48	7.5	0.66	0.0006
14300	0.0149	25.64	6.9	0.59	0.0005
15600	0.0137	25.79	6.3	0.59	0.0005
17100	0.0125	25.95	5.7	0.59	0.0004
18700	0.0114	26.09	5.2	0.52	0.0003
20400	0.0105	26.23	4.7	0.52	0.0003
22300	0.0096	26.34	4.2	0.44	0.0002
24400	0.0087	26.48	3.7	0.52	0.0002
26700	0.0080	26.60	3.2	0.44	0.0002
29300	0.0073	26.72	2.8	0.44	0.0002
32000	0.0067	26.84	2.4	0.44	0.0002
35000	0.0061	26.93	2.0	0.37	0.0001
38300	0.0056	27.03	1.6	0.37	0.0001
41900	0.0051	27.11	1.3	0.30	0.0001
45800	0.0047	27.19	1.0	0.30	0.0001
50100	0.0043	27.27	0.7	0.30	0.0001
54800	0.0039	27.37	0.4	0.37	0.0001
59500	0.0036	27.46	0.0	0.37	0.0001

Table 16. MICP data for sample 07MAW04 - 10.3.

Mercury Injection Capillary Pressure
07MAW04 - 10.3

Sample Information			
Bulk Volume =	5.7984 cc	Porosity =	23.1% (merury)
Pore Volume =	1.3388 cc	Permeability =	0.0808 md (mercury)
Closure = 1.18 %BV @ 673 psia		Median Pore Aperture = 0.1095 microns (diameter)	

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	0.02	100.0	0.00	0.0000
1.96	109	0.04	100.0	0.00	0.0000
2.15	99.2	0.06	100.0	0.00	0.0000
2.35	90.8	0.08	100.0	0.00	0.0000
2.57	83.0	0.10	100.0	0.00	0.0000
2.81	75.9	0.10	100.0	0.00	0.0000
3.08	69.3	0.12	100.0	0.00	0.0000
3.37	63.3	0.12	100.0	0.00	0.0000
3.68	58.0	0.14	100.0	0.00	0.0000
4.03	52.9	0.16	100.0	0.00	0.0000
4.41	48.4	0.16	100.0	0.00	0.0000
4.82	44.3	0.18	100.0	0.00	0.0000
5.27	40.5	0.18	100.0	0.00	0.0000
5.77	37.0	0.20	100.0	0.00	0.0000
6.31	33.8	0.20	100.0	0.00	0.0000
6.90	30.9	0.22	100.0	0.00	0.0000
7.55	28.3	0.24	100.0	0.00	0.0000
8.26	25.8	0.24	100.0	0.00	0.0000
9.04	23.6	0.24	100.0	0.00	0.0000
9.89	21.6	0.26	100.0	0.00	0.0000
10.8	19.8	0.28	100.0	0.00	0.0000
11.8	18.1	0.28	100.0	0.00	0.0000
12.9	16.5	0.31	100.0	0.00	0.0000
14.2	15.0	0.31	100.0	0.00	0.0000
15.5	13.8	0.33	100.0	0.00	0.0000
16.9	12.6	0.35	100.0	0.00	0.0000
18.5	11.5	0.35	100.0	0.00	0.0000
20.3	10.5	0.37	100.0	0.00	0.0000
22.2	9.61	0.37	100.0	0.00	0.0000
24.3	8.78	0.39	100.0	0.00	0.0000
26.6	8.02	0.41	100.0	0.00	0.0000
29.0	7.36	0.43	100.0	0.00	0.0000
31.8	6.71	0.45	100.0	0.00	0.0000
34.8	6.13	0.47	100.0	0.00	0.0000
38.0	5.61	0.49	100.0	0.00	0.0000

Table 16 (cont.). MICP data for sample 07MAW04 - 10.3.

Mercury Injection Capillary Pressure
07MAW04 - 10.3

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	0.49	100.0	0.00	0.0000
45.5	4.69	0.53	100.0	0.00	0.0000
49.8	4.28	0.53	100.0	0.00	0.0000
54.5	3.91	0.53	100.0	0.00	0.0000
59.6	3.58	0.53	100.0	0.00	0.0000
65.2	3.27	0.55	100.0	0.00	0.0000
71.3	2.99	0.55	100.0	0.00	0.0000
78.0	2.73	0.55	100.0	0.00	0.0000
85.3	2.50	0.57	100.0	0.00	0.0000
93.4	2.28	0.57	100.0	0.00	0.0000
102	2.09	0.59	100.0	0.00	0.0000
112	1.90	0.59	100.0	0.00	0.0000
122	1.75	0.61	100.0	0.00	0.0000
134	1.59	0.63	100.0	0.00	0.0000
146	1.46	0.63	100.0	0.00	0.0000
160	1.33	0.63	100.0	0.00	0.0000
175	1.22	0.65	100.0	0.00	0.0000
191	1.12	0.65	100.0	0.00	0.0000
209	1.02	0.67	100.0	0.00	0.0000
229	0.932	0.69	100.0	0.00	0.0000
251	0.850	0.71	100.0	0.00	0.0000
274	0.779	0.71	100.0	0.00	0.0000
300	0.711	0.73	100.0	0.00	0.0000
328	0.650	0.75	100.0	0.00	0.0000
359	0.594	0.77	100.0	0.00	0.0000
393	0.543	0.81	100.0	0.00	0.0000
430	0.496	0.85	100.0	0.00	0.0000
470	0.454	0.90	100.0	0.00	0.0000
514	0.415	0.94	100.0	0.00	0.0000
563	0.379	1.00	100.0	0.00	0.0000
615	0.347	1.06	100.0	0.00	0.0000
673	0.317	1.18	100.0	0.00	0.0000
736	0.290	1.32	99.4	0.62	0.0098
806	0.265	1.53	98.5	0.88	0.0126
881	0.242	1.83	97.2	1.32	0.0176
964	0.221	2.36	94.9	2.29	0.0276
1050	0.203	2.99	92.2	2.73	0.0318
1150	0.186	4.17	87.0	5.11	0.0511
1260	0.169	5.92	79.5	7.58	0.0689
1380	0.155	7.71	71.7	7.76	0.0647
1510	0.141	9.26	65.0	6.70	0.0516
1650	0.129	10.64	59.0	6.00	0.0428

Table 16 (cont.). MICP data for sample 07MAW04 - 10.3.

Mercury Injection Capillary Pressure
07MAW04 - 10.3

Capillary Pressure (psia)	Pore Aperture Diameter (microns)	Cumulative Bulk Vol. (%)	Wetting Phase Saturation (%)	Incremental Wetting Phase Change (%)	Saturation Change per psia
1810	0.1179	11.84	53.8	5.20	0.0325
1980	0.1077	12.90	49.2	4.59	0.0270
2160	0.0988	13.81	45.2	3.97	0.0220
2370	0.0900	14.69	41.4	3.79	0.0181
2590	0.0824	15.42	38.3	3.17	0.0144
2830	0.0754	16.09	35.4	2.91	0.0121
3100	0.0688	16.70	32.7	2.65	0.0098
3390	0.0629	17.23	30.4	2.29	0.0079
3710	0.0575	17.72	28.3	2.12	0.0066
4060	0.0525	18.17	26.4	1.94	0.0055
4440	0.0480	18.57	24.6	1.76	0.0046
4850	0.0440	18.92	23.1	1.50	0.0037
5310	0.0402	19.27	21.6	1.50	0.0033
5810	0.0367	19.59	20.2	1.41	0.0028
6360	0.0335	19.90	18.9	1.32	0.0024
6950	0.0307	20.18	17.6	1.23	0.0021
7610	0.0280	20.45	16.5	1.15	0.0017
8320	0.0256	20.71	15.3	1.15	0.0016
9100	0.0234	20.95	14.3	1.06	0.0014
9960	0.0214	21.18	13.3	0.97	0.0011
10900	0.0196	21.40	12.3	0.97	0.0010
11900	0.0179	21.60	11.5	0.88	0.0009
13000	0.0164	21.81	10.6	0.88	0.0008
14300	0.0149	22.01	9.7	0.88	0.0007
15600	0.0137	22.17	9.0	0.71	0.0005
17100	0.0125	22.36	8.2	0.79	0.0005
18700	0.0114	22.52	7.5	0.71	0.0004
20400	0.0105	22.68	6.8	0.71	0.0004
22300	0.0096	22.85	6.1	0.71	0.0004
24400	0.0087	22.99	5.5	0.62	0.0003
26700	0.0080	23.13	4.9	0.62	0.0003
29300	0.0073	23.29	4.1	0.71	0.0003
32000	0.0067	23.42	3.6	0.53	0.0002
35000	0.0061	23.54	3.1	0.53	0.0002
38300	0.0056	23.66	2.6	0.53	0.0002
41900	0.0051	23.78	2.0	0.53	0.0001
45800	0.0047	23.88	1.6	0.44	0.0001
50100	0.0043	23.99	1.1	0.44	0.0001
54800	0.0039	24.13	0.5	0.62	0.0001
59500	0.0036	24.25	0.0	0.53	0.0001

Table 17. MICP data for sample ST4 - 20.

Mercury Injection Capillary Pressure
ST4 - 20

Sample Information			
Bulk Volume =	5.3015 cc	Porosity =	35.7% (mercury)
Pore Volume =	1.8914 cc	Permeability =	0.215 md (mercury)
Closure = 1.01 %BV @ 470 psia		Median Pore Aperture = 0.1308 microns (diameter)	

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	0.02	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	0.05	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	0.07	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	0.09	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	0.09	100.0	0.00	0.0000
5.77	37.0	0.09	100.0	0.00	0.0000
6.31	33.8	0.09	100.0	0.00	0.0000
6.90	30.9	0.09	100.0	0.00	0.0000
7.55	28.3	0.09	100.0	0.00	0.0000
8.26	25.8	0.09	100.0	0.00	0.0000
9.04	23.6	0.09	100.0	0.00	0.0000
9.89	21.6	0.09	100.0	0.00	0.0000
10.8	19.8	0.09	100.0	0.00	0.0000
11.8	18.1	0.09	100.0	0.00	0.0000
12.9	16.5	0.09	100.0	0.00	0.0000
14.2	15.0	0.09	100.0	0.00	0.0000
15.5	13.8	0.09	100.0	0.00	0.0000
16.9	12.6	0.09	100.0	0.00	0.0000
18.5	11.5	0.09	100.0	0.00	0.0000
20.3	10.5	0.09	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	0.22	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	0.26	100.0	0.00	0.0000
38.0	5.61	0.26	100.0	0.00	0.0000

Table 17 (cont.). MICP data for sample ST4 - 20.

Mercury Injection Capillary Pressure
ST4 - 20

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	0.27	100.0	0.00	0.0000
45.5	4.69	0.29	100.0	0.00	0.0000
49.8	4.28	0.29	100.0	0.00	0.0000
54.5	3.91	0.29	100.0	0.00	0.0000
59.6	3.58	0.29	100.0	0.00	0.0000
65.2	3.27	0.29	100.0	0.00	0.0000
71.3	2.99	0.29	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	0.31	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	0.34	100.0	0.00	0.0000
160	1.33	0.36	100.0	0.00	0.0000
175	1.22	0.38	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	0.48	100.0	0.00	0.0000
251	0.850	0.49	100.0	0.00	0.0000
274	0.779	0.53	100.0	0.00	0.0000
300	0.711	0.58	100.0	0.00	0.0000
328	0.650	0.63	100.0	0.00	0.0000
359	0.594	0.68	100.0	0.00	0.0000
393	0.543	0.77	100.0	0.00	0.0000
430	0.496	0.87	100.0	0.00	0.0000
470	0.454	1.01	100.0	0.00	0.0000
514	0.415	1.19	99.5	0.53	0.0120
563	0.379	1.50	98.6	0.86	0.0176
615	0.347	1.88	97.6	1.05	0.0202
673	0.317	2.28	96.4	1.15	0.0198
736	0.290	2.90	94.7	1.72	0.0273
806	0.265	3.31	93.5	1.15	0.0164
881	0.242	3.99	91.6	1.91	0.0255
964	0.221	4.84	89.2	2.39	0.0288
1050	0.203	5.88	86.3	2.92	0.0339
1150	0.186	7.47	81.9	4.45	0.0445
1260	0.169	10.11	74.5	7.41	0.0674
1380	0.155	13.19	65.8	8.66	0.0721
1510	0.141	17.03	55.0	10.76	0.0828
1650	0.129	19.16	49.1	5.98	0.0427

Table 17 (cont.). MICP data for sample ST4 - 20.

Mercury Injection Capillary Pressure
ST4 - 20

Capillary Pressure (psia)	Pore Aperture Diameter (microns)	Cumulative Bulk Vol. (%)	Wetting Phase Saturation (%)	Incremental Wetting Phase Change (%)	Saturation Change per psia
1810	0.1179	21.10	43.6	5.45	0.0341
1980	0.1077	22.74	39.0	4.59	0.0270
2160	0.0988	24.07	35.3	3.73	0.0207
2370	0.0900	25.28	31.9	3.40	0.0162
2590	0.0824	26.32	29.0	2.92	0.0133
2830	0.0754	27.24	26.4	2.58	0.0108
3100	0.0688	28.11	24.0	2.44	0.0090
3390	0.0629	28.84	21.9	2.06	0.0071
3710	0.0575	29.52	20.0	1.91	0.0060
4060	0.0525	30.12	18.3	1.67	0.0048
4440	0.0480	30.65	16.8	1.48	0.0039
4850	0.0440	31.08	15.6	1.20	0.0029
5310	0.0402	31.50	14.4	1.20	0.0026
5810	0.0367	31.88	13.4	1.05	0.0021
6360	0.0335	32.20	12.5	0.91	0.0017
6950	0.0307	32.51	11.6	0.86	0.0015
7610	0.0280	32.78	10.9	0.77	0.0012
8320	0.0256	33.02	10.2	0.67	0.0009
9100	0.0234	33.24	9.6	0.62	0.0008
9960	0.0214	33.44	9.0	0.57	0.0007
10900	0.0196	33.65	8.4	0.57	0.0006
11900	0.0179	33.84	7.9	0.53	0.0005
13000	0.0164	34.02	7.4	0.53	0.0005
14300	0.0149	34.21	6.8	0.53	0.0004
15600	0.0137	34.38	6.4	0.48	0.0004
17100	0.0125	34.55	5.9	0.48	0.0003
18700	0.0114	34.72	5.4	0.48	0.0003
20400	0.0105	34.88	5.0	0.43	0.0003
22300	0.0096	35.03	4.5	0.43	0.0002
24400	0.0087	35.20	4.1	0.48	0.0002
26700	0.0080	35.35	3.6	0.43	0.0002
29300	0.0073	35.51	3.2	0.43	0.0002
32000	0.0067	35.64	2.8	0.38	0.0001
35000	0.0061	35.80	2.4	0.43	0.0001
38300	0.0056	35.93	2.0	0.38	0.0001
41900	0.0051	36.05	1.7	0.33	0.0001
45800	0.0047	36.19	1.3	0.38	0.0001
50100	0.0043	36.34	0.9	0.43	0.0001
54800	0.0039	36.51	0.4	0.48	0.0001
59500	0.0036	36.65	0.0	0.38	0.0001