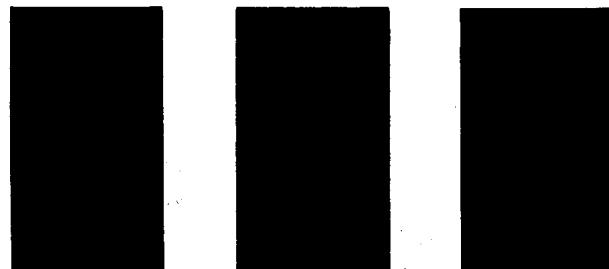


Schlumberger Synergetic Log Systems



Computer Processed Interpretation

CORIBAND

An Analysis Of Complex Lithology

CORIBAND

Analysis of Complex Lithology

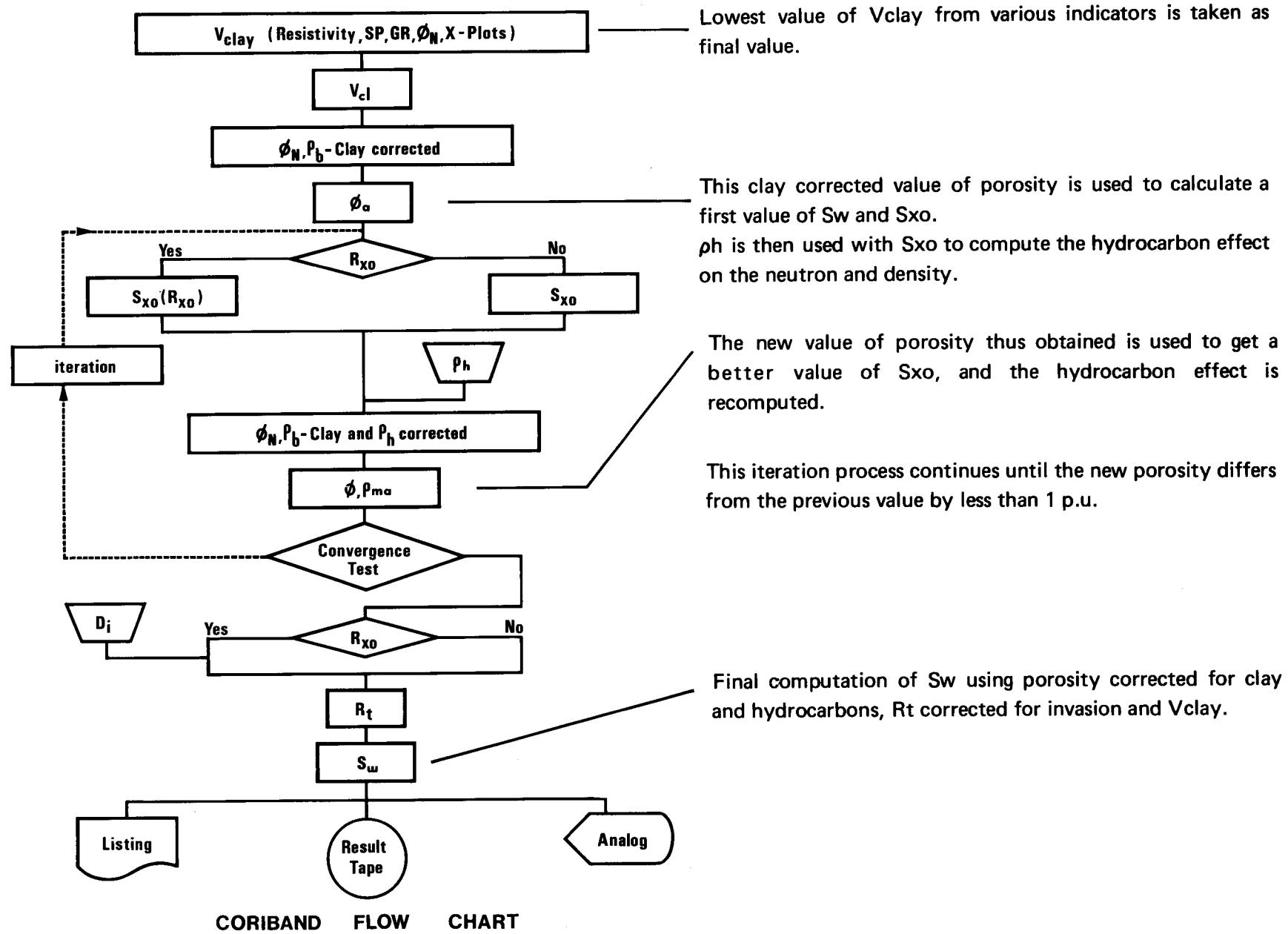
C O R I B A N D is a computer program which provides continuous computations of reservoir parameters through a zone of complex lithology. It corrects logging data for environmental effects and utilises all available information to provide the most probable solution for reservoir analysis.

Results are presented on a film coded for easy identification. A computer listing, providing a complete tabulation of reservoir parameters is also supplied. In addition, the raw log data, the normalized data and the computed results, are available in digital form on magnetic tape in a format compatible with your own computer (CERT tape).

The logging program for CORIBAND should include : a Deep Investigating Resistivity Log, a Microresistivity Log, a Formation Density Compensated Log, a Neutron Log (SNP or CNT) and a Borehole Compensated Sonic Log. And an SP and GR run in conjunction with the above logs.

Before being interpreted by the CORIBAND program : the log data are depth matched, corrected for environmental effects, and used to produce preliminary computations of porosity (ϕ), formation resistivity (R_t), invasion diameter (d_i), R_{wa} and R_{mfa} . This pre-interpretation pass also produces cross-plots which are used to determine parameters needed for the interpretation (e.g. clay characteristics, lithological model).

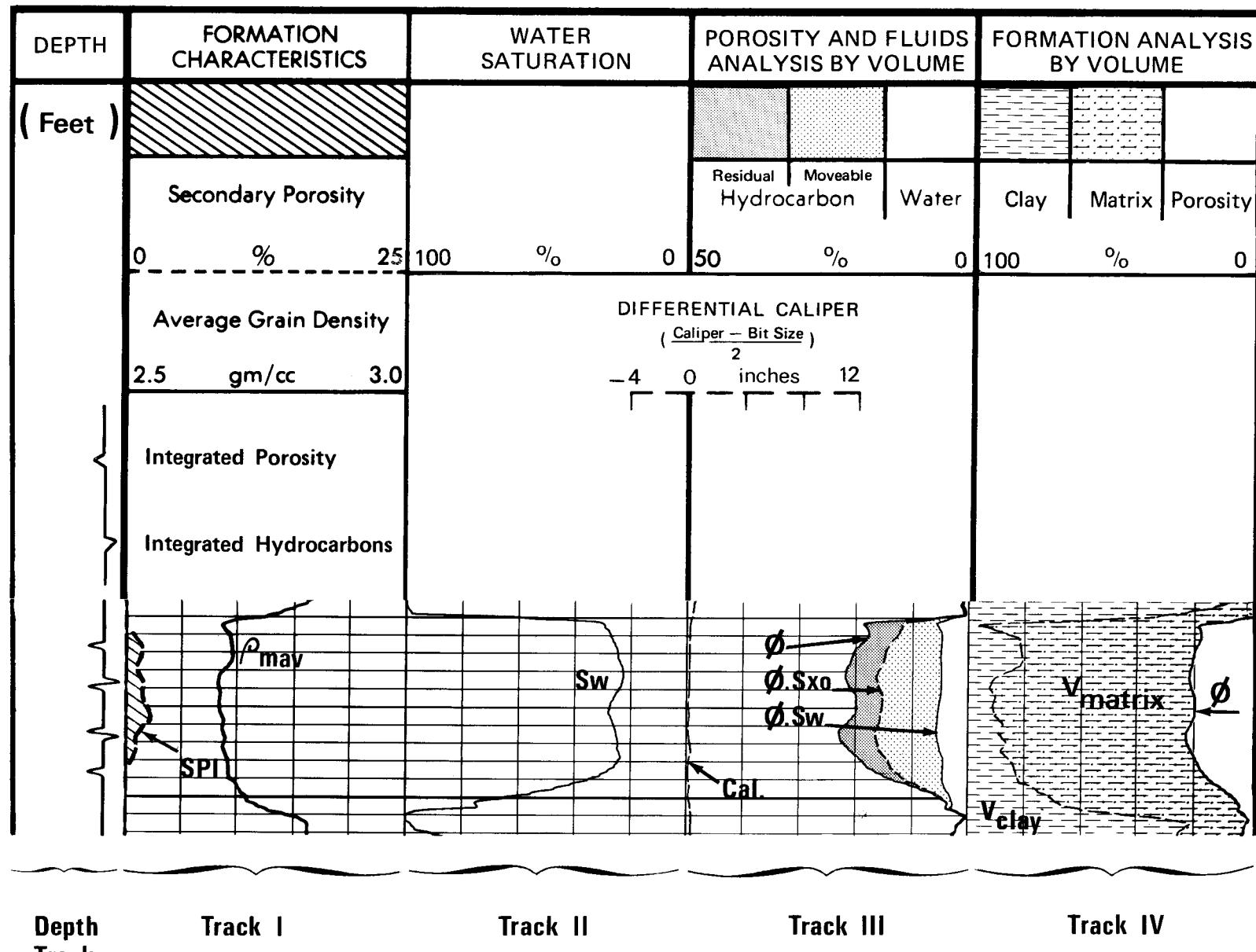
The pre-interpretation pass output is then used as input to the CORIBAND program. A flow chart with simplified explanation is shown below.



CORIBAND

Analysis of Complex Lithology

ANALOG PRESENTATION



Reservoir Inventory – Depth Track.

Integrated porosity. The distance between consecutive pips represents 1 foot of 100 % porosity, or 7758 barrels of pore volume per acre. When depths are expressed in meters, the integration gives a pip for every .2 meters of 100 % porosity which represents a pore volume of $.2m^3/m^2$.

Integrated hydrocarbon. The distance between consecutive pips represents 1 foot of hydrocarbon in place, or 7758 barrels of hydrocarbon per acre. In meters, the integration gives a pip for every .2 meters of hydrocarbon in place.

Formation Characteristics – Track I.

- SPI – Secondary Porosity Index. ($SPI = \emptyset_{ND} - \emptyset_S$). As the sonic responds mainly to intergranular porosity, while the Neutron and Density respond to total porosity , the presence of vugs or fractures is shown by the Neutron-Density porosity reading higher than the sonic porosity.
- ρ_{mav} – Average Grain Density. The average density of all solids, clay included. This curve indicates lithology in case of a clean monomineral matrix e.g. limestone (= 2.71). For a clean dual mineral matrix the proportion of the two constituents can be computed if these are well defined.

Water Saturation – Track II.

- S_W – Water saturation in the uncontaminated zone.

Porosity Analysis – Track III.

- \emptyset – Formation porosity corrected for hydrocarbon and clay effect.
- \emptyset_{Sx_0} – Water filled porosity in the invaded zone. (plotted only when microresistivity log available)
- \emptyset_{Sw} – Water filled porosity in the uncontaminated zone.
The area between \emptyset_{Sx_0} and \emptyset_{Sw} represents the moveable hydrocarbon.
The area between \emptyset and \emptyset_{Sw} represents the total hydrocarbon.

Bulk Volume Analysis – Track IV.

The total bulk volume is divided into \emptyset , porosity ; V_{clay} , percentage of clay ; V_{matrix} , percentage of non-clay matrix.

CORIBAND

Analysis of Complex Lithology

TABULAR LISTING DATA

DEPTH FEET	CLAY CONTENT %	AVERAGE MATRIX DENSITY GMS/CC	WATER SATURATIONS		POROSITY		HYDROCARBONS		CUMULATIVE INTEGRATIONS	
			VIRGIN ZONE (%)	INVADED ZONE	TOTAL %	SECONDARY %	TOTAL %	Movable %	POR-FI	HC-FT
0517.0	.0	2.65	94.2	98.2	28.6	.0	1.7	.5	281.14	3.44
0518.0	.0	2.63	96.3	98.9	28.3	.0	1.0	.3	277.70	3.43
0519.0	.0	2.63	90.0	96.9	28.7	.0	2.9	.9	274.28	3.41
0520.0	.0	2.64	85.8	95.5	30.0	.0	4.3	1.4	270.87	3.38
0521.0	.0	2.66	87.2	96.0	30.6	.0	3.9	1.2	267.50	3.34
0522.0	.0	2.64	89.9	96.9	29.9	.0	3.0	.9	264.18	3.30
0523.0	.0	2.63	92.6	97.7	29.0	.0	2.1	.7	260.89	3.27
0524.0	.0	2.66	92.5	97.7	29.8	.0	2.2	.7	257.62	3.25
0525.0	.0	2.67	96.3	96.9	29.4	.0	1.1	.3	254.37	3.23

- Column 1** — Depth in feet or meters.
- Column 2** — Clay content in percentage of bulk volume.
- Column 3** — Average matrix density in gms/cc. including clay.
- Column 4, 5** — Water saturations in percentage of total porosity.
- Column 6, 7** — Porosity (total and secondary) in percentage of bulk volume.
- Column 8, 9** — Hydrocarbons (total and moved) in percentage of bulk volume.
- Column 10, 11** — Cumulative integrations of porosity and hydrocarbons in porosity-feet or porosity-meter and hydrocarbon-feet or hydrocarbon-meter from the bottom of the computed section.

CORIBAND

Analysis of Complex Lithology

CERT TAPE

Tape containing the raw log data (depth matched), the data corrected for borehole environmental effects and the computed results of CORIBAND. Suitable for use in client computers.

Format Of CERT Tape

7 track, BCD, even parity, 556 or 800 BPI. Physical blocks of 4000 characters, 10 depth levels per block, format of each level : (40 F 10.3), one level per 6" of borehole, word one at each level contains depth. A tape label is written in the first two blocks. This label identifies client, well and parameter contained in each word.

For additional information please contact your local Schlumberger representative.

CORIBAND

INPUT PARAMETERS

ZONE NO 3 FR#M10154.0 T#10210.0

GENERAL PARAMETERS

RW= .025,RMP= .040, HYDROCARBON DENSITY= .600, TEMPERATURE= 250.000F

CLAY PARAMETERS

RESISTIVITY= .600, DELTA-T=130.000, DENSITY= 2.340, NEUTRON= 36.000

ZONE NO 2 FR#M10210.0 T#10640.0

GENERAL PARAMETERS

RW= .025,RMP= .040, HYDROCARBON DENSITY= .600, TEMPERATURE= 250.000F

CLAY PARAMETERS

RESISTIVITY= .600, DELTA-T=130.000, DENSITY= 2.340, NEUTRON= 36.000

ZONE NO 1 FR#M10640.0 T#11220.0

GENERAL PARAMETERS

RW= .025,RMP= .040, HYDROCARBON DENSITY= .600, TEMPERATURE= 250.000F

CLAY PARAMETERS

RESISTIVITY= .600, DELTA-T=130.000, DENSITY= 2.340, NEUTRON= 36.000

DEPTH FEET	CLAY CONTENT X	AVERAGE MATRIX DENSITY GMS/CC	WATER SATURATIONS		POROSITY		HYDROCARBONS		CUMULATIVE INTEGRATIONS		
			VIRGIN ZONE (%)	INVADED ZONE (%)	TOTAL %	SECONDARY %	TOTAL %	MOVABLE %	X	PER-FT	HC-FT
10155.0	94.8	2.85	100.0	100.0	1.8	.0	.0	.0	203.01	67.02	
10156.0	97.6	2.85	100.0	100.0	.0	.0	.0	.0	203.00	67.02	
10157.0	97.8	2.85	100.0	100.0	.8	.0	.0	.0	203.00	67.02	
10158.0	98.0	2.85	100.0	100.0	.7	.0	.0	.0	202.99	67.02	
10159.0	93.9	2.85	100.0	100.0	2.1	.0	.0	.0	202.97	67.02	
10160.0	100.0	2.85	100.0	100.0	.0	.0	.0	.0	202.96	67.02	
10161.0	88.6	2.85	100.0	100.0	4.0	.0	.0	.0	202.95	67.02	
10162.0	95.2	2.85	100.0	100.0	1.7	.0	.0	.0	202.89	67.02	
10163.0	91.6	2.85	100.0	100.0	2.9	.0	.0	.0	202.87	67.02	
10164.0	92.2	2.85	100.0	100.0	2.7	.0	.0	.0	202.84	67.02	
10165.0	100.0	2.85	100.0	100.0	.0	.0	.0	.0	202.83	67.02	
10166.0	88.8	2.85	100.0	100.0	3.9	.0	.0	.0	202.83	67.02	
10167.0	69.8	2.86	85.3	89.2	8.4	.0	1.2	.3	202.77	67.02	
10168.0	69.7	2.86	75.2	84.5	9.5	.0	2.3	.9	202.69	67.00	
10169.0	67.9	2.86	93.2	98.6	5.4	.0	4.4	.3	202.60	66.98	
10170.0	73.4	2.86	93.4	98.7	6.1	.0	4.4	.3	202.54	66.98	
10171.0	68.0	2.82	82.2	96.2	10.2	.0	1.8	1.4	202.48	66.97	
10172.0	72.3	2.85	84.6	96.7	9.7	.0	1.5	1.2	202.37	66.95	
10173.0	80.8	2.85	89.8	97.9	6.7	.0	0.7	.5	202.28	66.94	
10174.0	79.0	2.85	86.0	97.0	7.4	.0	1.0	.8	202.21	66.93	
10175.0	76.1	2.85	84.7	89.6	8.4	.0	1.3	.4	202.13	66.92	
10176.0	76.2	2.85	83.4	87.7	8.3	.0	1.4	.4	202.05	66.91	
10177.0	66.7	2.85	76.6	94.8	11.6	.0	2.7	2.1	201.97	66.90	
10178.0	75.0	2.85	85.1	96.8	8.8	.0	1.3	1.0	201.85	66.87	
10179.0	72.8	2.85	85.6	89.1	9.5	.0	1.4	.3	201.76	66.85	
10180.0	76.2	2.85	88.1	90.4	8.3	.0	1.0	.2	201.66	66.84	
10181.0	68.5	2.85	82.3	95.7	11.0	.0	1.9	1.5	201.56	66.82	
10182.0	83.6	2.85	91.8	91.8	5.7	.0	0.5	.0	201.47	66.81	
10183.0	75.3	2.85	79.7	79.7	8.6	.0	1.8	.0	201.41	66.80	
10184.0	64.8	2.85	68.8	74.8	12.3	.0	3.8	.7	201.32	66.78	
10185.0	61.2	2.82	86.6	90.5	6.4	.0	0.9	.2	201.23	66.76	
10186.0	57.0	2.86	72.9	85.1	9.6	.0	2.6	1.2	201.15	66.75	
10187.0	59.7	2.86	79.8	95.6	8.0	.0	1.6	1.3	201.06	66.72	
10188.0	61.7	2.85	100.0	100.0	3.8	.0	0.0	0.0	200.99	66.71	
10189.0	61.7	2.79	95.5	96.8	5.7	.0	3.3	.1	200.93	66.71	
10190.0	71.6	2.80	99.2	99.2	3.4	.0	0.0	0.0	200.87	66.70	
10191.0	62.6	2.79	100.0	100.0	3.9	.0	0.0	0.0	200.84	66.70	
10192.0	65.4	2.79	100.0	100.0	2.6	.0	0.0	0.0	200.80	66.70	
10193.0	59.8	2.77	100.0	100.0	1.4	.0	0.0	0.0	200.77	66.70	
10194.0	57.3	2.80	100.0	100.0	.9	.0	0.0	0.0	200.76	66.70	
10195.0	58.1	2.77	100.0	100.0	.0	.0	0.0	0.0	200.76	66.70	
10196.0	57.8	2.81	100.0	100.0	1.8	.0	0.0	0.0	200.75	66.70	
10197.0	53.7	2.79	100.0	100.0	3.2	.0	0.0	0.0	200.74	66.70	
10198.0	56.6	2.81	100.0	100.0	3.6	.0	0.0	0.0	200.70	66.70	
10199.0	61.5	2.83	100.0	100.0	2.6	.0	0.0	0.0	200.66	66.70	
10200.0	62.4	2.86	100.0	100.0	3.6	.0	0.0	0.0	200.63	66.70	
10201.0	61.3	2.86	100.0	100.0	6.1	.0	0.0	0.0	200.59	66.70	

DEPTH FEET	CLAY CONTENT %	AVERAGE MATRIX DENSITY GMS/CC	WATER SATURATIONS		POROSITY		HYDROCARBONS		CUMULATIVE INTEGRATIONS		
			VIRGIN ZONE (%)	INVADED ZONE (%)	TOTAL ZONE (%)	SECONDARY ZONE (%)	TOTAL %	Movable %	PER-FT	HC-FT	
10202.0	59.7	2.85	95.9	7.4	.0	.3	.0	200.53	66.70		
10203.0	65.3	2.86	100.0	3.4	.0	.0	.0	200.46	66.70		
10204.0	61.5	2.80	100.0	100.0	1.3	.0	.0	200.43	66.70		
10205.0	53.9	2.77	100.0	100.0	2.0	.0	.0	200.43	66.70		
10206.0	63.7	2.78	100.0	100.0	.0	.0	.0	200.42	66.70		
10207.0	49.7	2.77	100.0	100.0	6.9	.0	.0	200.41	66.70		
10208.0	62.3	2.79	100.0	100.0	1.6	.0	.0	200.35	66.70		
10209.0	51.0	2.77	100.0	100.0	5.7	.0	.0	200.32	66.70		
10210.0	50.9	2.77	100.0	100.0	3.5	.0	.0	200.27	66.70		
10211.0	49.6	2.77	100.0	100.0	3.5	.0	.0	200.23	66.70		
10212.0	36.9	2.75	100.0	100.0	5.4	.0	.0	200.20	66.70		
10213.0	47.9	2.77	100.0	100.0	1.9	.0	.0	200.15	66.70		
10214.0	32.3	2.74	100.0	100.0	7.0	.0	.0	200.11	66.70		
10215.0	28.3	2.74	100.0	100.0	8.0	.0	.0	200.04	66.70		
10216.0	40.9	2.75	100.0	100.0	5.2	.0	.0	199.97	66.70		
10217.0	33.9	2.74	100.0	100.0	7.2	.0	.0	199.91	66.70		
10218.0	29.8	2.74	100.0	100.0	7.5	.0	.0	199.83	66.70		
10219.0	41.8	2.76	100.0	100.0	5.3	.0	.0	199.77	66.70		
10220.0	49.2	2.77	100.0	100.0	3.7	.0	.0	199.72	66.70		
10221.0	51.0	2.77	100.0	100.0	3.5	.0	.0	199.68	66.70		
10222.0	38.7	2.75	100.0	100.0	5.3	.0	.0	199.64	66.70		
10223.0	31.9	2.74	100.0	100.0	8.1	.0	.0	199.58	66.70		
10224.0	34.8	2.74	100.0	100.0	8.6	.0	.0	199.50	66.70		
10225.0	27.9	2.73	100.0	100.0	9.9	.0	.0	199.41	66.70		
10226.0	24.5	2.73	100.0	100.0	9.4	.0	.0	199.31	66.70		
10227.0	25.3	2.73	100.0	100.0	8.3	.0	.0	199.21	66.70		
10228.0	15.5	2.72	100.0	100.0	10.4	.0	.0	199.12	66.70		
10229.0	13.6	2.72	100.0	100.0	10.9	.0	.0	199.01	66.70		
10230.0	22.0	2.73	100.0	100.0	8.3	.0	.0	198.91	66.70		
10231.0	12.9	2.71	100.0	100.0	11.1	.0	.0	198.82	66.70		
10232.0	13.2	2.72	100.0	100.0	10.5	.0	.0	198.71	66.70		
10233.0	19.7	2.72	100.0	100.0	9.3	.0	.0	198.61	66.70		
10234.0	14.0	2.72	100.0	100.0	10.9	.0	.0	198.51	66.70		
10235.0	16.0	2.72	100.0	100.0	10.3	.0	.0	198.40	66.70		
10236.0	21.4	2.73	98.7	98.7	9.3	.0	.1	198.31	66.70		
10237.0	18.0	2.73	79.6	85.6	12.1	.0	2.5	198.21	66.69		
10238.0	16.8	2.73	86.1	86.3	11.5	.0	1.6	198.09	66.67		
10239.0	7.4	2.72	77.8	79.9	15.4	.0	3.4	197.97	66.65		
10240.0	6.8	2.71	89.5	97.8	13.9	.0	1.5	1.2	197.81	66.62	
10241.0	12.3	2.71	100.0	100.0	10.4	.0	.0	197.68	66.61		
10242.0	15.8	2.72	100.0	100.0	10.2	.0	.0	197.58	66.61		
10243.0	.0	2.69	83.0	93.9	16.2	.0	2.7	1.8	197.46	66.61	
10244.0	12.6	2.72	72.0	84.6	14.7	.0	4.1	1.8	197.30	66.57	
10245.0	11.6	2.73	51.6	65.3	19.3	.0	9.3	2.7	197.15	66.53	
10246.0	.0	2.71	43.7	55.7	23.4	.0	13.1	2.8	196.94	66.42	
10247.0	1.0	2.73	43.8	56.6	22.1	.0	12.4	2.8	196.71	66.29	
10248.0	2.6	2.73	45.2	61.1	21.1	.0	11.5	3.4	196.50	66.17	
10249.0	.0	2.72	45.0	60.9	22.2	.0	12.2	3.5	196.29	66.05	

DEPTH FEET	CLAY CONTENT %	AVERAGE MATRIX DENSITY GMS/CC	WATER SATURATIONS		POROSITY		HYDROCARBONS		CUMULATIVE INTEGRATIONS	
			VIRGIN ZONE (%)	INVADED ZONE	TOTAL %	SECONDARY %	TOTAL %	MOVEABLE %	PER-FT	HC-FT
10250.0	6.4	2.75	46.8	61.4	21.3	.0	11.3	3.1	196.07	65.94
10251.0	5.1	2.75	45.8	57.7	22.8	.0	12.4	2.7	195.86	65.82
10252.0	5.8	2.75	49.5	60.0	21.4	.0	10.8	2.2	195.63	65.70
10253.0	7.2	2.73	57.5	65.9	18.5	.0	7.8	1.5	195.42	65.60
10254.0	.2	2.72	57.4	65.9	20.1	.0	8.6	1.7	195.23	65.52
10255.0	.0	2.70	58.2	70.7	19.9	.0	8.3	2.5	195.03	65.43
10256.0	.0	2.70	61.1	78.7	19.0	.0	7.4	3.4	194.83	65.35
10257.0	.0	2.70	53.7	74.2	21.2	.0	9.8	4.4	194.64	65.28
10258.0	.0	2.69	46.5	63.5	24.2	.0	13.0	4.1	194.42	65.17
10259.0	5.7	2.74	44.7	56.5	23.9	.0	13.2	2.8	194.18	65.03
10260.0	5.8	2.74	47.2	64.8	21.8	.0	11.5	3.8	193.94	64.90
10261.0	6.0	2.74	45.4	67.1	21.6	.0	11.8	4.7	193.73	64.79
10262.0	10.0	2.74	39.4	60.4	23.7	.0	14.3	5.0	193.51	64.67
10263.0	6.7	2.75	34.4	57.3	26.5	.0	17.4	6.1	193.26	64.51
10264.0	4.1	2.75	30.5	55.9	28.5	.0	19.8	7.2	192.99	64.33
10265.0	6.0	2.76	28.4	58.2	28.2	.0	20.2	8.4	192.70	64.13
10266.0	.0	2.73	25.4	56.0	30.8	.0	23.0	9.5	192.41	63.92
10267.0	.0	2.70	23.7	58.7	30.9	.0	23.6	10.8	192.11	63.69
10268.0	.0	2.70	21.7	59.9	32.0	.0	25.0	12.2	191.80	63.46
10269.0	.7	2.76	19.4	53.0	34.5	.0	27.8	11.6	191.47	63.20
10270.0	1.2	2.75	21.0	53.6	32.8	.0	25.9	10.7	191.13	62.93
10271.0	.0	2.71	22.5	58.0	30.8	.0	23.9	10.9	190.81	62.67
10272.0	1.9	2.75	22.1	56.0	31.4	.0	24.5	10.7	190.50	62.44
10273.0	1.9	2.76	23.5	55.3	31.1	.0	23.8	9.9	190.19	62.19
10274.0	1.9	2.77	25.2	54.5	30.6	.0	22.9	9.0	189.88	61.96
10275.0	3.8	2.78	26.5	53.4	29.7	.0	21.8	8.0	189.57	61.73
10276.0	5.0	2.78	27.6	53.1	28.4	.0	20.6	7.2	189.28	61.52
10277.0	2.9	2.78	27.5	56.5	28.7	.0	20.8	8.3	189.00	61.31
10278.0	3.4	2.79	26.6	59.9	28.3	.0	20.7	9.4	188.71	61.10
10279.0	2.3	2.79	24.6	55.8	29.5	.0	22.2	9.2	188.43	60.89
10280.0	1.4	2.75	24.3	59.3	29.2	.0	22.2	10.2	188.13	60.67
10281.0	1.6	2.78	22.5	56.2	30.2	.0	23.4	10.2	187.84	60.45
10282.0	.0	2.79	22.4	50.3	30.7	.0	23.8	8.6	187.54	60.21
10283.0	1.7	2.80	25.6	46.7	28.6	.0	21.3	6.0	187.23	59.98
10284.0	.0	2.74	31.3	44.8	24.8	.0	17.1	3.4	186.96	59.78
10285.0	.0	2.72	34.6	50.5	24.2	.0	15.8	3.9	186.71	59.61
10286.0	.0	2.71	36.8	70.6	24.3	.0	15.4	8.2	186.47	59.45
10287.0	.0	2.72	33.8	60.7	27.0	.0	17.9	7.3	186.22	59.30
10288.0	.6	2.73	34.4	57.4	27.0	.0	17.7	6.2	185.95	59.11
10289.0	3.4	2.74	35.9	66.0	24.6	.0	15.7	7.4	185.68	58.94
10290.0	6.4	2.74	30.2	63.8	26.4	.0	18.4	8.9	185.43	58.78
10291.0	3.9	2.82	24.5	53.9	32.0	.0	24.2	9.4	185.15	58.58
10292.0	2.6	2.80	25.5	55.7	31.5	.0	23.5	9.5	184.83	58.33
10293.0	3.5	2.78	26.7	57.8	30.9	.0	22.7	9.6	184.52	58.10
10294.0	2.5	2.77	27.3	58.3	31.2	.0	22.7	9.7	184.21	57.87
10295.0	.8	2.77	28.0	60.7	31.6	.0	22.8	10.4	183.90	57.65
10296.0	.0	2.78	26.3	60.6	33.2	.0	24.5	11.4	183.58	57.42
10297.0	1.9	2.83	25.2	57.2	34.5	.0	25.8	11.1	183.24	57.17

DEPTH FEET	CLAY CONTENT %	AVERAGE MATRIX DENSITY GMS/CC	WATER SATURATIONS		POROSITY		HYDROCARBONS		CUMULATIVE INTEGRATIONS		
			VIRGIN ZONE (%)	INVADED ZONE (%)	TOTAL ZONE X	SECONDARY ZONE Z	TOTAL MOVABLE X %	HC-FT PER-FT			
10298.0	6.0	2.83	25.8	53.8	33.4	.0	24.8	9.3	182.90	56.91	
10299.0	7.8	2.76	29.7	60.6	29.2	.0	20.5	9.0	182.58	56.68	
10300.0	2.4	2.78	29.1	59.4	31.9	.0	22.6	9.7	182.28	56.47	
10301.0	.5	2.83	28.8	55.6	33.5	.0	23.9	9.0	181.95	56.24	
10302.0	3.6	2.80	32.7	61.3	30.4	.0	20.4	8.7	181.63	56.01	
10303.0	2.0	2.73	34.0	62.8	29.8	.0	19.6	8.6	181.32	55.80	
10304.0	6.8	2.74	35.3	61.2	27.7	.0	17.9	7.2	181.03	55.61	
10305.0	5.2	2.74	35.3	59.4	27.9	.0	18.0	6.7	180.75	55.43	
10306.0	.0	2.70	37.5	65.5	27.3	.0	17.0	7.6	180.48	55.26	
10307.0	.0	2.74	35.5	61.1	28.9	.0	18.6	7.4	180.20	55.08	
10308.0	2.9	2.77	36.5	57.7	28.4	.0	18.0	6.0	179.91	54.90	
10309.0	3.4	2.77	39.9	61.2	26.6	.0	16.0	5.7	179.64	54.72	
10310.0	1.0	2.72	40.8	66.4	26.4	.0	15.6	6.7	179.37	54.57	
10311.0	.0	2.74	35.0	61.8	29.2	.0	19.0	7.8	179.10	54.40	
10312.0	.0	2.75	30.5	56.2	30.4	.0	21.1	7.8	178.81	54.21	
10313.0	.0	2.73	28.9	57.3	28.5	.0	20.3	8.1	178.51	54.00	
10314.0	.0	2.71	24.5	64.9	27.7	.0	21.0	11.2	178.23	53.80	
10315.0	.8	2.75	15.7	57.2	32.5	.0	27.4	13.5	177.94	53.58	
10316.0	.0	2.74	13.8	55.0	33.3	.0	28.7	13.7	177.61	53.30	
10317.0	.0	2.70	14.0	56.2	32.4	.0	27.9	13.7	177.28	53.01	
10318.0	.0	2.72	15.6	54.5	31.5	.0	26.6	12.3	176.96	52.74	
10319.0	.0	2.74	18.5	57.5	31.5	.0	25.7	12.3	176.65	52.48	
10320.0	.0	2.79	18.3	54.3	34.0	.0	27.8	12.2	176.33	52.22	
10321.0	.0	2.76	18.0	50.6	34.0	.0	27.9	11.1	175.99	51.93	
10322.0	.0	2.77	17.6	49.2	33.4	.0	27.5	10.6	175.65	51.66	
10323.0	.0	2.74	16.6	52.6	32.3	.0	27.0	11.7	175.32	51.39	
10324.0	3.1	2.82	14.7	48.1	34.9	.0	29.8	11.7	174.99	51.11	
10325.0	2.8	2.83	14.9	49.7	35.2	.0	30.0	12.2	174.64	50.81	
10326.0	2.5	2.80	14.8	49.6	34.7	.0	29.6	12.1	174.29	50.52	
10327.0	1.8	2.84	14.0	42.4	36.6	.0	31.5	10.4	173.94	50.21	
10328.0	.4	2.82	14.5	43.0	35.7	.0	30.5	10.2	173.57	49.90	
10329.0	.0	2.79	14.9	45.3	34.4	.0	29.3	10.5	173.22	49.59	
10330.0	.0	2.76	15.7	47.6	32.9	.0	27.7	10.5	172.88	49.31	
10331.0	.0	2.73	16.4	51.2	32.6	.0	27.2	11.3	172.55	49.03	
10332.0	1.0	2.78	16.8	49.2	33.9	.0	28.2	11.0	172.23	48.76	
10333.0	1.0	2.82	16.5	44.5	35.3	.0	29.5	9.9	171.88	48.47	
10334.0	1.0	2.81	18.2	40.2	33.2	.0	27.2	7.3	171.53	48.18	
10335.0	.2	2.77	22.1	40.3	30.0	.0	23.3	5.4	171.21	47.92	
10336.0	.0	2.75	25.1	47.2	27.4	.0	20.5	6.1	170.91	47.69	
10337.0	.0	2.73	26.7	43.4	25.9	.0	19.0	4.3	170.64	47.49	
10338.0	7.6	2.78	27.7	34.4	24.4	.0	17.7	1.6	170.39	47.31	
10339.0	2.0	2.79	27.6	42.0	25.9	.0	18.8	3.7	170.15	47.13	
10340.0	2.0	2.75	28.4	53.6	24.8	.0	17.8	6.2	169.90	46.95	
10341.0	.0	2.73	25.3	48.4	28.6	.0	21.3	6.6	169.64	46.77	
10342.0	1.0	2.75	25.3	49.5	28.9	.0	21.6	7.0	169.36	46.56	
10343.0	.0	2.72	25.4	49.6	29.7	.0	22.2	7.2	169.07	46.34	
10344.0	.0	2.70	26.0	52.2	29.9	.0	22.1	7.9	168.77	46.12	
10345.0	2.0	2.75	26.7	50.4	29.5	.0	21.6	7.0	168.47	45.90	

DEPTH FEET	CLAY CONTENT %	AVERAGE MATRIX DENSITY GMS/CC	WATER SATURATIONS			POROSITY		HYDROCARBONS		CUMULATIVE INTEGRATIONS		
			VIRGIN ZONE (%)	INVADED ZONE	TOTAL	SECONDARY	TOTAL	MOVABLE	POR-FT	HC-FT		
10346.0	3.1	2.81	25.5	47.0	31.2	.0	23.3	6.7	168.17	45.68		
10347.0	6.1	2.76	28.7	54.7	27.4	.0	19.5	7.1	167.87	45.45		
10348.0	2.3	2.75	29.5	52.9	27.9	.0	19.7	6.3	167.59	45.26		
10349.0	.0	2.72	29.0	49.4	29.5	.0	20.9	6.0	167.31	45.05		
10350.0	.0	2.73	29.6	54.4	28.9	.0	20.3	7.2	167.01	44.85		
10351.0	.0	2.74	27.7	54.9	29.9	.0	21.6	8.1	166.73	44.65		
10352.0	.0	2.75	24.6	48.8	31.9	.0	24.1	7.7	166.43	44.43		
10353.0	.0	2.74	25.0	45.6	29.2	.0	21.9	6.0	166.11	44.19		
10354.0	.0	2.70	27.1	49.5	25.5	.0	18.6	5.7	165.83	43.98		
10355.0	.0	2.70	28.8	59.0	24.0	.0	17.1	7.2	165.58	43.80		
10356.0	.0	2.70	27.5	56.1	26.0	.0	18.9	7.4	165.34	43.62		
10357.0	.0	2.72	30.6	56.4	25.6	.0	17.8	6.6	165.07	43.43		
10358.0	.0	2.71	35.0	60.4	24.4	.0	15.8	6.2	164.82	43.26		
10359.0	2.2	2.73	38.1	62.6	23.3	.0	14.4	5.7	164.58	43.11		
10360.0	.0	2.72	35.5	60.6	25.5	.0	16.4	6.4	164.34	42.96		
10361.0	.0	2.71	36.0	59.6	25.5	.0	16.3	6.0	164.09	42.80		
10362.0	.0	2.72	36.0	57.7	26.3	.0	16.8	5.7	163.83	42.63		
10363.0	.0	2.70	40.4	64.8	24.5	.0	14.6	6.0	163.57	42.47		
10364.0	.0	2.71	44.2	72.2	23.8	.0	13.3	6.6	163.33	42.32		
10365.0	.0	2.70	44.7	70.4	25.3	.0	14.0	6.5	163.09	42.19		
10366.0	.9	2.73	42.3	60.0	27.9	.0	16.1	4.9	162.83	42.05		
10367.0	.0	2.71	46.8	61.4	26.2	.0	13.9	3.8	162.55	41.89		
10368.0	.2	2.75	47.2	61.9	25.6	.0	13.5	3.8	162.29	41.75		
10369.0	2.0	2.73	50.1	62.3	23.5	.0	11.8	2.9	162.05	41.62		
10370.0	.0	2.71	55.9	65.5	21.4	.0	9.5	2.1	161.81	41.51		
10371.0	.0	2.70	60.8	71.4	19.7	.0	7.7	2.1	161.60	41.42		
10372.0	.0	2.71	57.8	71.5	20.5	.0	8.7	2.8	161.40	41.34		
10373.0	1.8	2.73	52.5	67.4	22.0	.0	10.4	3.3	161.20	41.25		
10374.0	1.9	2.72	51.2	64.9	22.5	.0	11.0	3.1	160.97	41.14		
10375.0	5.4	2.73	53.9	66.5	20.7	.0	9.5	2.6	160.76	41.04		
10376.0	4.2	2.73	53.9	67.0	20.9	.0	9.6	2.7	160.55	40.94		
10377.0	1.6	2.75	52.3	64.7	22.0	.0	10.5	2.7	160.34	40.84		
10378.0	3.5	2.74	55.9	66.7	20.7	.0	9.1	2.2	160.12	40.74		
10379.0	.0	2.72	49.7	60.0	24.2	.0	12.2	2.5	159.90	40.64		
10380.0	.0	2.74	42.1	58.1	28.8	.0	16.7	4.6	159.65	40.51		
10381.0	2.6	2.77	42.4	59.7	28.6	.0	16.5	5.0	159.35	40.34		
10382.0	2.4	2.74	49.1	62.2	24.9	.0	12.7	3.3	159.08	40.18		
10383.0	.0	2.76	47.9	57.8	26.0	1.7	13.6	2.6	158.83	40.05		
10384.0	.0	2.71	50.4	63.8	24.6	2.1	12.2	3.3	158.57	39.92		
10385.0	.0	2.70	49.8	66.0	24.6	1.6	12.4	4.0	158.33	39.80		
10386.0	.0	2.70	49.8	64.5	24.2	.0	12.1	3.6	158.08	39.68		
10387.0	.0	2.70	48.8	65.3	24.3	.4	12.4	4.0	157.84	39.56		
10388.0	.0	2.70	44.4	64.4	26.2	2.4	14.6	5.3	157.59	39.43		
10389.0	.0	2.70	40.5	61.5	28.2	2.9	16.8	5.9	157.32	39.27		
10390.0	.0	2.71	39.8	62.4	28.8	.9	17.3	6.5	157.04	39.10		
10391.0	.5	2.73	39.8	62.3	29.0	.0	17.5	6.5	156.75	38.93		
10392.0	.0	2.73	41.7	60.9	28.2	.0	16.5	5.4	156.46	38.76		
10393.0	.0	2.70	46.1	64.3	26.0	.9	14.0	4.8	156.19	38.60		

DEPTH FEET	CLAY CONTENT %	AVERAGE MATRIX DENSITY GMS/CC	WATER SATURATIONS		POROSITY		HYDROCARBONS		CUMULATIVE INTEGRATIONS	
			VIRGIN ZONE (%)	INVADED ZONE	TOTAL %	SECONDARY %	TOTAL %	MOVEABLE %	PER-FT	HC-FT
10394.0	.0	2.69	48.0	67.1	25.3	2.3	13.1	4.8	155.93	38.46
10395.0	.0	2.69	49.0	70.9	24.9	0	12.7	5.4	155.68	38.33
10396.0	.0	2.71	46.0	67.4	26.7	0	14.4	5.7	155.43	38.20
10397.0	.0	2.73	43.6	60.5	28.3	0	16.0	4.8	155.15	38.05
10398.0	.0	2.73	44.7	59.2	27.9	0	15.4	4.1	154.87	37.89
10399.0	.0	2.72	50.4	63.5	24.4	0	12.1	3.2	154.60	37.75
10400.0	.0	2.71	52.5	66.6	23.1	1.1	11.0	3.3	154.36	37.63
10401.0	.0	2.71	57.5	72.8	21.1	.5	9.0	3.2	154.13	37.52
10402.0	.0	2.70	54.2	65.9	22.2	0	10.2	2.6	153.92	37.43
10403.0	1.8	2.73	52.8	65.6	22.4	0	10.5	2.4	153.69	37.33
10404.0	4.9	2.75	49.9	65.5	23.1	.4	11.6	3.6	153.47	37.22
10405.0	7.6	2.75	48.7	62.2	22.7	.1	11.6	3.1	153.24	37.10
10406.0	4.5	2.75	49.3	61.9	22.6	0	11.5	2.9	153.01	36.99
10407.0	1.4	2.74	47.5	58.7	23.6	0	12.4	2.6	152.79	36.88
10408.0	.0	2.73	48.8	58.1	23.5	.5	12.1	2.2	152.55	36.75
10409.0	1.4	2.73	52.5	64.1	22.3	.1	10.6	2.6	152.32	36.64
10410.0	5.9	2.72	56.1	66.9	20.5	0	9.0	2.2	152.10	36.54
10411.0	4.0	2.73	57.4	69.1	19.9	0	8.4	2.3	151.90	36.45
10412.0	.0	2.73	55.7	55.7	20.1	0	8.9	0	151.70	36.36
10413.0	.0	2.69	68.8	68.8	15.7	1.4	4.9	0	151.51	36.28
10414.0	.0	2.70	54.8	56.2	17.7	4.5	8.0	.2	151.36	36.24
10415.0	.0	2.75	36.7	54.3	23.9	2.7	15.1	4.2	151.16	36.14
10416.0	.0	2.76	30.3	56.4	28.2	.2	19.6	7.4	150.91	35.97
10417.0	.0	2.79	26.8	56.0	31.4	0	23.0	9.2	150.62	35.76
10418.0	.0	2.77	25.0	54.7	32.3	0	24.2	9.6	150.30	35.53
10419.0	2.8	2.77	23.1	56.7	33.1	0	25.4	11.1	149.97	35.28
10420.0	.0	2.71	22.6	60.5	33.8	0	26.1	12.8	149.64	35.03
10421.0	.0	2.69	22.6	57.4	34.2	0	26.5	11.9	149.30	34.76
10422.0	.0	2.75	22.0	56.2	34.9	0	27.2	11.9	148.96	34.50
10423.0	.5	2.80	20.8	54.4	36.1	0	28.6	12.1	148.61	34.22
10424.0	.0	2.83	22.0	48.6	35.2	0	27.4	9.3	148.25	33.94
10425.0	.0	2.75	26.3	53.4	30.1	0	22.2	8.2	147.91	33.68
10426.0	.0	2.70	36.7	67.3	23.0	0	14.5	7.0	147.63	33.48
10427.0	.0	2.72	38.5	59.9	23.0	0	14.1	4.9	147.40	33.33
10428.0	5.8	2.72	44.4	65.6	19.7	0	11.0	4.2	147.18	33.20
10429.0	11.7	2.73	45.9	64.8	18.4	0	10.0	3.5	147.00	33.10
10430.0	1.4	2.72	44.4	64.7	21.6	0	12.0	4.4	146.80	33.00
10431.0	5.1	2.71	46.4	77.4	19.1	0	10.2	5.9	146.60	32.88
10432.0	1.1	2.70	42.0	83.0	20.9	0	12.1	8.6	146.40	32.77
10433.0	5.0	2.71	38.6	82.4	21.1	0	12.9	9.2	146.19	32.65
10434.0	2.7	2.74	26.5	58.6	27.5	0	20.2	8.8	145.97	32.50
10435.0	.0	2.75	20.2	48.4	34.2	0	27.3	9.6	145.67	32.28
10436.0	5.2	2.78	18.4	49.4	35.6	0	29.1	11.0	145.32	32.00
10437.0	4.8	2.77	18.1	53.6	36.0	0	29.5	12.8	144.96	31.71
10438.0	6.5	2.76	18.8	56.8	33.7	0	27.4	12.8	144.61	31.42
10439.0	.0	2.73	21.9	59.0	30.6	0	23.9	11.4	144.28	31.15
10440.0	.0	2.72	23.4	56.1	28.9	0	22.1	9.4	143.97	30.92
10441.0	.0	2.70	27.7	61.1	24.5	0	17.7	8.2	143.70	30.70

DEPTH FEET	CLAY CONTENT %	AVERAGE MATRIX DENSITY GMS/CC	WATER SATURATIONS			POROSITY		HYDROCARBONS		CUMULATIVE INTEGRATIONS		
			VIRGIN ZONE (%)	INVADED ZONE	TOTAL	SECONDARY	TOTAL	Movable	%	PER-FT	HC-FT	
10442.0	.0	2.70	35.4	69.5	20.1	.0	13.0	6.8	143.46	30.54		
10443.0	.0	2.70	36.1	62.5	20.7	.0	13.2	5.5	143.26	30.41		
10444.0	.0	2.73	35.5	54.9	22.2	.0	14.3	4.3	143.05	30.28		
10445.0	.0	2.75	40.2	56.7	20.7	.0	12.4	3.4	142.83	30.14		
10446.0	.0	2.70	37.7	52.4	22.7	.0	14.2	3.3	142.62	30.01		
10447.0	.0	2.69	32.7	48.5	26.3	2.6	17.7	4.2	142.39	29.86		
10448.0	.0	2.70	30.3	46.5	28.2	.0	19.6	4.6	142.12	29.68		
10449.0	.0	2.69	30.9	51.4	27.0	.0	18.7	5.5	141.83	29.48		
10450.0	.0	2.70	29.1	54.5	27.5	.0	19.5	7.0	141.56	29.29		
10451.0	.0	2.74	26.7	51.6	28.7	.0	21.0	7.1	141.29	29.10		
10452.0	.0	2.74	24.1	48.8	30.3	.0	23.0	7.5	141.00	28.88		
10453.0	.0	2.71	22.5	51.5	30.9	.0	24.0	9.0	140.69	28.65		
10454.0	.0	2.76	19.3	50.4	34.6	.0	27.9	10.8	140.38	28.40		
10455.0	2.5	2.77	18.4	49.3	35.2	.0	28.7	10.9	140.03	28.12		
10456.0	1.4	2.77	17.7	48.0	36.1	.0	29.7	10.9	139.67	27.83		
10457.0	.0	2.81	17.4	49.1	35.0	.0	28.9	11.1	139.32	27.53		
10458.0	.0	2.80	17.3	41.8	34.3	.0	28.4	8.4	138.97	27.25		
10459.0	.0	2.73	18.6	45.0	33.0	.0	26.9	8.7	138.63	26.97		
10460.0	.0	2.71	18.5	57.6	32.1	.0	26.2	12.5	138.30	26.70		
10461.0	.0	2.70	20.0	66.7	30.4	.0	24.3	14.2	137.98	26.44		
10462.0	.8	2.74	19.0	60.2	32.9	.0	26.6	13.6	137.68	26.20		
10463.0	.0	2.74	18.5	59.0	34.5	.0	28.1	14.0	137.34	25.92		
10464.0	1.4	2.81	17.9	55.6	35.4	.0	29.1	13.4	136.99	25.64		
10465.0	1.5	2.78	18.6	54.5	34.5	.0	28.1	12.4	136.64	25.35		
10466.0	1.4	2.76	19.9	57.2	33.2	.0	26.6	12.4	136.30	25.07		
10467.0	.5	2.80	19.5	54.6	33.6	.0	27.0	11.8	135.97	24.81		
10468.0	.0	2.74	21.8	52.9	30.8	.0	24.0	9.5	135.63	24.54		
10469.0	.0	2.72	27.5	53.4	27.8	.0	20.2	7.2	135.33	24.31		
10470.0	.2	2.73	35.6	57.0	25.1	.0	16.2	5.4	135.06	24.12		
10471.0	8.7	2.73	41.8	67.8	21.0	.0	12.2	5.4	134.82	23.97		
10472.0	5.1	2.72	42.0	69.1	22.5	.0	13.0	6.1	134.61	23.84		
10473.0	2.2	2.72	45.2	63.5	23.0	.0	12.6	4.2	134.38	23.71		
10474.0	7.7	2.74	45.4	67.1	21.0	.0	11.5	4.6	134.16	23.59		
10475.0	3.5	2.79	39.8	62.9	24.2	.0	14.6	5.6	133.94	23.47		
10476.0	.8	2.77	38.4	62.5	25.5	.0	15.7	6.1	133.69	23.31		
10477.0	1.8	2.74	44.3	71.5	21.9	.0	12.2	6.0	133.44	23.16		
10478.0	3.6	2.73	52.9	74.2	18.1	.0	8.5	3.8	133.23	23.05		
10479.0	1.1	2.72	53.1	64.2	18.3	.0	8.6	2.0	133.05	22.97		
10480.0	3.6	2.73	54.0	62.9	17.5	.0	8.1	1.6	132.87	22.89		
10481.0	3.2	2.74	45.4	58.7	20.6	.0	11.2	2.7	132.69	22.80		
10482.0	.0	2.78	36.1	52.9	26.0	3.4	16.6	4.4	132.47	22.67		
10483.0	.0	2.75	31.1	45.8	29.4	3.4	20.3	4.3	132.20	22.50		
10484.0	.0	2.76	31.9	45.0	27.7	.6	18.8	3.6	131.91	22.30		
10485.0	.0	2.73	36.4	54.3	23.6	3.3	15.0	4.2	131.65	22.12		
10486.0	.0	2.70	45.3	72.0	18.7	.0	10.2	5.0	131.42	21.98		
10487.0	2.1	2.72	38.1	63.1	20.8	.0	12.9	5.2	131.24	21.87		
10488.0	.0	2.73	33.7	55.1	23.2	.0	15.4	5.0	131.02	21.74		
10489.0	.0	2.72	35.4	57.0	21.7	.4	14.0	4.7	130.79	21.58		

DEPTH FEET	CLAY CONTENT %	AVERAGE MATRIX DENSITY GMS/CC	WATER SATURATIONS		POROSITY		HYDROCARBONS		CUMULATIVE INTEGRATIONS	
			VIRGIN ZONE (%)	INVADED ZONE	TOTAL %	SECONDARY %	TOTAL %	Movable %	PER-FT	HC-FT
10490.0	.0	2.70	37.1	55.5	19.9	1.2	12.5	3.7	130.58	21.45
10491.0	.0	2.69	41.4	62.9	17.8	1.9	10.4	3.8	130.38	21.33
10492.0	.0	2.70	36.7	70.2	19.9	.0	12.6	6.7	130.20	21.22
10493.0	.0	2.69	28.4	71.8	25.4	1.3	18.2	11.0	129.99	21.08
10494.0	.6	2.75	21.1	63.3	33.8	.0	26.7	14.2	129.72	20.88
10495.0	3.5	2.74	19.1	63.7	36.2	.0	29.3	16.2	129.37	20.61
10496.0	.1	2.80	16.9	59.2	39.9	.0	33.2	16.9	129.00	20.31
10497.0	.0	2.75	15.6	54.8	39.8	.0	33.6	15.6	128.60	19.97
10498.0	.0	2.72	14.2	53.7	38.5	.0	33.0	15.2	128.21	19.64
10499.0	3.9	2.80	12.9	53.2	38.4	.0	33.5	15.5	127.82	19.30
10500.0	1.6	2.79	12.8	54.8	38.7	.0	33.7	16.2	127.44	18.97
10501.0	.0	2.82	13.8	53.9	39.1	.0	33.7	15.7	127.05	18.63
10502.0	.0	2.76	15.6	57.2	38.4	.0	32.4	16.0	126.66	18.30
10503.0	.0	2.72	18.1	62.7	36.3	.0	29.7	16.2	126.28	17.98
10504.0	.6	2.78	19.8	61.6	35.4	.0	28.4	14.8	125.92	17.68
10505.0	1.1	2.75	24.2	61.9	31.3	.0	23.7	11.8	125.57	17.41
10506.0	.0	2.71	28.5	63.4	27.6	.0	19.7	9.6	125.27	17.18
10507.0	.4	2.76	28.4	57.2	28.4	.0	20.3	8.2	125.00	16.99
10508.0	.0	2.70	33.0	58.6	25.9	.7	17.4	6.6	124.72	16.79
10509.0	.0	2.72	36.3	62.5	24.7	.4	15.7	6.5	124.46	16.62
10510.0	.0	2.72	39.4	65.5	23.9	.0	14.4	6.2	124.22	16.47
10511.0	.0	2.70	47.1	67.9	21.0	.3	11.1	4.4	123.98	16.33
10512.0	.0	2.70	55.6	69.6	18.9	1.4	8.4	2.7	123.78	16.23
10513.0	.0	2.72	57.4	69.3	18.9	2.1	8.1	2.3	123.59	16.14
10514.0	.0	2.73	56.4	70.3	19.5	2.7	8.5	2.7	123.40	16.06
10515.0	.0	2.71	62.6	74.0	18.5	1.8	6.9	2.1	123.21	15.98
10516.0	.0	2.72	62.9	73.1	18.9	1.8	7.0	1.9	123.02	15.91
10517.0	.0	2.70	64.1	76.9	18.9	2.3	6.8	2.4	122.83	15.84
10518.0	.0	2.71	67.7	79.5	18.3	1.2	5.9	2.2	122.64	15.77
10519.0	.0	2.72	64.3	73.7	19.2	1.5	6.9	1.8	122.46	15.71
10520.0	.0	2.72	66.2	74.4	18.7	.9	6.3	1.5	122.26	15.64
10521.0	.0	2.71	75.6	79.6	16.5	.6	4.0	.7	122.08	15.59
10522.0	1.3	2.71	75.1	78.0	16.0	.8	4.0	.5	121.92	15.54
10523.0	1.1	2.70	76.7	87.5	15.4	.8	3.6	1.7	121.76	15.50
10524.0	.0	2.69	73.1	88.7	15.6	3.2	4.2	2.4	121.60	15.47
10525.0	.0	2.70	56.5	66.1	18.9	3.8	8.2	1.8	121.44	15.42
10526.0	.0	2.72	49.9	58.9	20.8	1.7	10.4	1.9	121.25	15.32
10527.0	.0	2.73	55.2	65.1	19.8	.6	8.9	2.0	121.04	15.22
10528.0	.0	2.69	75.5	82.1	16.1	1.6	3.9	1.1	120.85	15.15
10529.0	.0	2.70	75.5	79.7	17.0	1.3	4.2	.7	120.69	15.11
10530.0	1.6	2.71	75.3	83.7	17.7	.0	4.4	1.5	120.52	15.07
10531.0	.0	2.71	71.3	87.8	19.0	.0	5.5	3.1	120.33	15.02
10532.0	.0	2.70	78.0	94.8	17.0	1.1	3.7	2.9	120.14	14.96
10533.0	.0	2.69	89.0	97.7	14.3	1.6	1.6	1.2	119.98	14.93
10534.0	.0	2.70	86.0	92.0	13.6	1.1	1.9	.8	119.84	14.92
10535.0	.0	2.69	89.2	94.3	12.4	2.1	1.3	.6	119.71	14.90
10536.0	1.1	2.70	93.5	93.5	11.7	1.7	.8	.0	119.59	14.89
10537.0	3.0	2.71	100.0	100.0	11.2	.6	.0	.0	119.48	14.88

DEPTH FEET	CLAY CONTENT %	AVERAGE MATRIX DENSITY GMS/CC	WATER SATURATIONS			POROSITY		HYDROCARBONS		CUMULATIVE INTEGRATIONS	
			VIRGIN ZONE (%)	INVADED ZONE	TOTAL	SECONDARY	TOTAL	Movable	%	PER-FT	HC-FT
10538.0	.0	2.72	84.8	84.8	.6	2.3	.0	119.35	14.88		
10539.0	.0	2.73	80.2	80.2	.3	3.3	.0	119.20	14.85		
10540.0	.0	2.73	75.6	86.2	.3	4.5	1.9	119.03	14.82		
10541.0	.0	2.71	70.3	85.4	.9	5.6	2.8	118.84	14.77		
10542.0	1.3	2.71	76.1	93.2	1.4	3.9	2.8	118.66	14.71		
10543.0	1.2	2.71	80.8	91.6	1.4	2.8	1.6	118.50	14.68		
10544.0	.0	2.71	81.2	85.7	14.6	1.9	2.7	.7	118.35	14.65	
10545.0	.0	2.71	76.7	81.9	15.6	1.2	3.6	.8	118.21	14.62	
10546.0	.0	2.73	62.2	72.9	19.2	.3	7.2	2.1	118.04	14.58	
10547.0	.0	2.75	53.3	69.4	22.4	1.0	10.5	3.6	117.84	14.50	
10548.0	.0	2.72	54.9	74.9	21.1	1.6	9.5	4.2	117.62	14.39	
10549.0	.0	2.69	61.5	80.7	18.3	1.9	7.1	3.5	117.42	14.31	
10550.0	.0	2.69	61.7	79.3	17.6	.0	6.8	3.1	117.24	14.24	
10551.0	.0	2.69	52.3	70.4	19.8	.0	9.4	3.6	117.06	14.16	
10552.0	.0	2.70	45.0	63.8	22.4	.0	12.3	4.2	116.85	14.06	
10553.0	.0	2.71	38.1	59.1	25.6	.0	15.8	5.4	116.62	13.93	
10554.0	.0	2.73	34.5	60.5	27.1	.0	17.7	7.0	116.36	13.77	
10555.0	.0	2.72	33.7	62.7	27.3	.0	18.1	7.9	116.09	13.59	
10556.0	.0	2.71	39.3	62.3	24.4	.0	14.8	5.6	115.82	13.41	
10557.0	.0	2.71	46.1	60.1	22.1	.0	11.9	3.1	115.58	13.27	
10558.0	.0	2.73	54.6	66.6	20.2	.5	9.2	2.4	115.36	13.16	
10559.0	.0	2.70	71.6	83.9	17.0	1.8	4.8	2.1	115.17	13.08	
10560.0	.0	2.69	78.3	89.2	16.2	2.6	3.5	1.8	115.01	13.04	
10561.0	.0	2.69	87.2	88.6	15.3	2.2	2.0	.2	114.85	13.00	
10562.0	1.7	2.72	85.9	85.9	15.5	1.3	2.2	.0	114.70	12.99	
10563.0	1.2	2.71	80.6	87.3	16.7	1.1	3.2	1.1	114.54	12.96	
10564.0	.0	2.70	88.0	94.1	15.8	.5	1.9	1.0	114.37	12.93	
10565.0	.0	2.70	91.9	92.8	15.2	.7	1.2	.1	114.22	12.92	
10566.0	.5	2.71	88.2	88.2	15.7	.9	1.9	.0	114.06	12.90	
10567.0	.0	2.69	79.2	83.7	17.3	2.2	3.6	.8	113.91	12.88	
10568.0	.5	2.73	63.4	73.5	20.9	.8	7.7	2.1	113.73	12.84	
10569.0	.0	2.71	57.6	70.7	22.7	.0	9.6	3.0	113.51	12.76	
10570.0	.0	2.71	50.6	67.3	24.4	.0	12.1	4.1	113.28	12.65	
10571.0	.0	2.72	45.6	64.9	25.9	.0	14.1	5.0	113.03	12.53	
10572.0	.0	2.74	43.8	65.3	26.5	.0	14.9	5.7	112.77	12.38	
10573.0	.1	2.74	43.8	65.5	26.0	.0	14.6	5.6	112.50	12.23	
10574.0	.0	2.73	41.8	61.6	26.8	.0	15.6	5.3	112.24	12.09	
10575.0	.0	2.73	42.1	59.9	26.3	.0	15.2	4.7	111.98	11.93	
10576.0	.0	2.73	40.6	54.7	27.5	.0	16.3	3.9	111.71	11.78	
10577.0	.0	2.71	39.0	55.4	28.9	.0	17.6	4.7	111.43	11.61	
10578.0	.2	2.73	38.3	59.8	29.7	.0	18.3	6.4	111.15	11.44	
10579.0	.3	2.77	37.1	59.5	31.1	.0	19.5	7.0	110.84	11.24	
10580.0	.0	2.76	38.3	60.6	30.2	.1	18.6	6.7	110.53	11.05	
10581.0	.8	2.75	41.4	60.6	28.1	.0	16.5	5.4	110.23	10.87	
10582.0	.0	2.76	40.9	58.0	29.2	.0	17.3	5.0	109.96	10.71	
10583.0	.0	2.77	40.0	59.2	30.7	.0	18.4	5.9	109.66	10.53	
10584.0	.0	2.77	39.8	58.7	31.9	.0	19.2	6.0	109.35	10.34	
10585.0	.0	2.74	41.3	58.6	31.8	.5	18.7	5.5	109.03	10.15	

DEPTH FEET	CLAY CONTENT %	AVERAGE MATRIX DENSITY GMS/CC	WATER SATURATIONS		POROSITY		HYDROCARBONS		CUMULATIVE INTEGRATIONS		
			VIRGIN ZONE (%)	INVADED ZONE (%)	TOTAL %	SECONDARY %	TOTAL %	MOVABLE %	POR-FT	HC-FT	
10586.0	.6	2.73	43.7	62.3	30.6	.0	17.2	5.7	108.71	9.97	
10587.0	.0	2.70	43.3	64.0	30.6	.0	17.4	6.3	108.41	9.80	
10588.0	.1	2.75	42.4	60.8	30.9	.0	17.8	5.7	108.10	9.62	
10589.0	.0	2.76	44.9	61.8	29.4	.0	16.2	5.0	107.80	9.45	
10590.0	.0	2.74	47.8	64.8	28.3	.2	14.8	4.8	107.51	9.29	
10591.0	.0	2.71	51.9	68.5	27.0	.0	13.0	4.5	107.23	9.15	
10592.0	.0	2.70	57.0	70.9	25.5	.5	11.0	3.6	106.96	9.02	
10593.0	.0	2.73	64.6	71.1	23.3	.1	8.2	1.5	106.71	8.92	
10594.0	.0	2.69	69.9	69.9	21.8	2.0	6.6	.0	106.48	8.84	
10595.0	.0	2.70	74.5	74.5	20.6	2.1	5.3	.0	106.27	8.78	
10596.0	.0	2.70	76.1	80.2	20.4	.7	4.9	.8	106.06	8.73	
10597.0	.0	2.73	72.1	78.4	21.8	.0	6.1	1.4	105.86	8.68	
10598.0	.0	2.73	70.6	74.3	23.0	.0	6.7	.8	105.63	8.62	
10599.0	.0	2.74	71.2	73.9	23.7	.0	6.8	.6	105.40	8.55	
10600.0	.0	2.73	74.3	79.1	23.6	.4	6.1	1.1	105.16	8.48	
10601.0	.0	2.72	78.8	88.0	22.5	1.3	4.8	2.1	104.93	8.42	
10602.0	.0	2.71	85.4	89.7	20.4	1.6	3.0	.9	104.71	8.38	
10603.0	.0	2.70	89.7	89.7	18.9	2.2	1.9	.0	104.51	8.35	
10604.0	.0	2.69	98.5	98.5	16.9	2.6	.2	.0	104.33	8.34	
10605.0	.0	2.71	91.8	91.8	17.6	1.8	1.4	.0	104.16	8.33	
10606.0	.0	2.71	85.8	89.3	19.2	1.6	2.7	.7	103.98	8.32	
10607.0	.0	2.69	88.5	96.5	19.2	1.1	2.2	1.5	103.79	8.29	
10608.0	1.1	2.70	90.0	97.9	19.0	.9	1.9	1.5	103.59	8.27	
10609.0	2.1	2.71	88.8	97.1	19.3	1.4	2.2	1.6	103.40	8.25	
10610.0	.9	2.73	84.8	92.6	20.5	1.8	3.1	1.6	103.21	8.23	
10611.0	1.0	2.74	80.7	90.3	21.4	1.7	4.1	2.0	103.00	8.19	
10612.0	.2	2.72	84.8	96.0	20.5	.6	3.1	2.3	102.79	8.15	
10613.0	.0	2.75	92.1	95.7	19.3	.2	1.5	.7	102.58	8.12	
10614.0	.0	2.76	91.9	91.9	19.6	.9	1.6	.0	102.39	8.11	
10615.0	.0	2.78	80.8	82.9	22.4	1.9	4.3	.5	102.19	8.09	
10616.0	.0	2.72	81.6	93.2	22.2	.5	4.1	2.6	101.97	8.04	
10617.0	.0	2.73	76.8	88.7	22.5	.0	5.2	2.7	101.74	8.00	
10618.0	.4	2.76	85.7	94.1	19.4	.0	2.8	1.6	101.53	7.95	
10619.0	1.1	2.71	98.4	99.7	16.7	.0	.3	.2	101.34	7.93	
10620.0	.0	2.73	88.5	88.9	19.0	.4	2.2	.1	101.17	7.93	
10621.0	.0	2.75	81.9	87.1	21.8	1.1	4.0	1.1	100.97	7.90	
10622.0	.0	2.73	86.1	91.7	23.4	.9	3.2	1.3	100.75	7.86	
10623.0	.0	2.71	88.9	94.5	24.3	.1	2.7	1.4	100.51	7.83	
10624.0	.0	2.76	85.1	88.2	26.2	.8	3.9	.8	100.26	7.80	
10625.0	.0	2.74	83.6	87.6	26.2	1.3	4.3	1.1	100.00	7.76	
10626.0	.6	2.72	84.8	94.6	23.8	1.1	3.6	2.3	99.74	7.72	
10627.0	.4	2.72	88.4	93.1	21.0	1.5	2.4	1.0	99.51	7.68	
10628.0	8.8	2.73	97.4	97.4	16.1	.5	.4	.0	99.31	7.66	
10629.0	8.8	2.75	72.5	72.5	19.6	.3	5.4	.0	99.14	7.65	
10630.0	3.5	2.71	62.9	80.4	23.4	.3	8.7	4.1	98.94	7.58	
10631.0	6.5	2.72	71.9	84.3	20.4	.7	5.7	2.5	98.71	7.50	
10632.0	1.2	2.74	67.6	72.9	22.3	.8	7.2	1.2	98.50	7.44	
10633.0	5.5	2.76	63.6	71.9	21.9	1.1	8.0	1.8	98.28	7.37	

DEPTH FEET	CLAY CONTENT %	AVERAGE MATRIX DENSITY GMS/CC	WATER SATURATIONS			POROSITY ZONE %	HYDROCARBONS TOTAL %	CUMULATIVE INTEGRATIONS PBR-FT	
			VIRGIN ZONE (%)	INVADED ZONE (%)	TOTAL ZONE (%)		SECONDARY %		HC-FT
10634.0	13.4	2.77	71.1	80.2	17.5	1.1	5.0	1.6	98.07
10635.0	14.9	2.74	91.4	91.4	12.8	0.0	1.1	0.0	97.91
10636.0	2.9	2.70	99.9	100.0	13.0	0.0	0.0	0.0	97.78
10637.0	3.9	2.70	95.3	99.0	12.0	0.0	0.6	0.4	97.66
10638.0	6.7	2.71	85.2	96.9	11.8	0.0	1.7	1.4	97.54
10639.0	6.1	2.71	82.5	95.2	12.3	0.0	2.2	1.6	97.42
10640.0	0.0	2.71	76.7	87.6	14.7	0.0	3.4	1.6	97.29
10641.0	.5	2.72	72.4	82.0	15.6	0.0	4.3	1.5	97.14
10642.0	1.6	2.73	68.6	80.9	16.3	0.0	5.1	2.0	96.98
10643.0	0.0	2.70	77.0	79.9	15.1	0.0	3.5	0.4	96.82
10644.0	0.0	2.71	84.3	84.3	14.0	0.0	2.2	0.0	96.67
10645.0	3.4	2.72	91.1	92.6	12.1	0.0	1.1	0.2	96.55
10646.0	8.0	2.72	100.0	100.0	9.1	0.0	0.0	0.0	96.44
10647.0	0.0	2.71	100.0	100.0	11.5	0.0	0.0	0.0	96.34
10648.0	0.0	2.71	100.0	100.0	11.2	0.0	0.0	0.0	96.23
10649.0	5.6	2.72	99.9	100.0	10.6	0.0	0.0	0.0	96.12
10650.0	0.0	2.70	100.0	100.0	11.5	0.0	0.0	0.0	96.01
10651.0	0.0	2.69	100.0	100.0	11.5	0.0	0.0	0.0	95.90
10652.0	0.0	2.69	100.0	100.0	11.9	0.0	0.0	0.0	95.78
10653.0	0.0	2.71	100.0	100.0	11.7	0.0	0.0	0.0	95.66
10654.0	3.2	2.71	100.0	100.0	11.0	0.0	0.0	0.0	95.55
10655.0	0.0	2.70	95.7	99.1	12.7	0.0	0.5	0.4	95.43
10656.0	0.0	2.70	99.6	99.9	12.0	0.0	0.0	0.0	95.31
10657.0	.5	2.71	100.0	100.0	10.4	0.0	0.0	0.0	95.19
10658.0	0.0	2.69	100.0	100.0	10.4	0.0	0.0	0.0	95.08
10659.0	0.0	2.69	100.0	100.0	8.6	0.0	0.0	0.0	94.98
10660.0	1.1	2.71	100.0	100.0	11.6	0.0	0.0	0.0	94.90
10661.0	0.0	2.70	87.8	87.8	14.1	0.0	1.7	0.0	94.77
10662.0	0.0	2.70	91.8	98.3	14.0	0.0	1.1	0.9	94.63
10663.0	0.0	2.70	96.1	99.2	13.3	0.0	0.5	0.4	94.49
10664.0	0.0	2.71	95.2	99.0	13.0	0.0	0.6	0.5	94.36
10665.0	0.0	2.70	96.6	99.3	12.7	0.0	0.4	0.3	94.23
10666.0	0.0	2.69	100.0	100.0	12.3	0.0	0.0	0.0	94.10
10667.0	0.0	2.69	90.5	92.9	13.3	0.0	1.3	0.3	93.98
10668.0	0.0	2.70	92.4	98.4	12.7	0.0	1.0	0.8	93.84
10669.0	0.0	2.70	95.6	95.6	12.1	1.7	0.5	0.0	93.72
10670.0	0.0	2.69	100.0	100.0	10.1	0.0	0.0	0.0	93.60
10671.0	0.0	2.71	100.0	100.0	9.9	0.0	0.0	0.0	93.51
10672.0	12.0	2.72	100.0	100.0	8.9	0.0	0.0	0.0	93.41
10673.0	13.4	2.74	100.0	100.0	7.9	0.7	0.0	0.0	93.33
10674.0	1.0	2.71	100.0	100.0	10.5	0.0	0.0	0.0	93.25
10675.0	.7	2.71	100.0	100.0	9.6	0.0	0.0	0.0	93.14
10676.0	3.6	2.71	100.0	100.0	7.6	0.0	0.0	0.0	93.05
10677.0	0.0	2.71	100.0	100.0	8.0	0.0	0.0	0.0	92.97
10678.0	5.2	2.72	100.0	100.0	5.9	0.0	0.0	0.0	92.89
10679.0	9.6	2.73	100.0	100.0	4.2	0.0	0.0	0.0	92.84
10680.0	0.0	2.70	100.0	100.0	6.6	0.0	0.0	0.0	92.80
10681.0	0.0	2.71	100.0	100.0	5.9	0.0	0.0	0.0	92.73

DEPTH FEET	CLAY CONTENT %	AVERAGE MATRIX DENSITY GMS/CC	WATER SATURATIONS		POROSITY		HYDROCARBONS		CUMULATIVE INTEGRATIONS	
			VIRGIN ZONE (%)	INVADED ZONE (%)	TOTAL	SECONDARY	TOTAL	MOVABLE	PER-FT	HC-FT
10682.0	.0	2.69	100.0	100.0	5.9	.0	.0	.0	92.68	6.92
10683.0	.0	2.70	100.0	100.0	6.0	.0	.0	.0	92.62	6.92
10684.0	2.7	2.71	100.0	100.0	6.3	.0	.0	.0	92.56	6.92
10685.0	4.1	2.73	100.0	100.0	8.9	.0	.0	.0	92.49	6.92
10686.0	3.0	2.74	87.2	87.2	12.9	.0	1.6	.0	92.39	6.92
10687.0	3.3	2.73	81.8	86.4	14.4	1.3	2.6	.7	92.25	6.90
10688.0	2.4	2.72	84.8	84.8	14.0	1.5	2.1	.0	92.11	6.88
10689.0	1.9	2.73	91.1	91.1	12.2	1.9	1.1	.0	91.97	6.86
10690.0	.0	2.71	98.6	98.6	10.8	1.7	.2	.0	91.86	6.85
10691.0	.0	2.69	100.0	100.0	9.3	.0	.0	.0	91.75	6.85
10692.0	.0	2.71	98.2	98.2	10.4	.0	.2	.0	91.66	6.85
10693.0	.8	2.72	86.5	90.0	12.4	.0	1.7	.4	91.55	6.84
10694.0	.0	2.72	84.7	84.7	15.1	.3	2.3	.0	91.42	6.83
10695.0	2.7	2.72	88.0	88.0	16.4	.0	2.0	.0	91.26	6.80
10696.0	4.8	2.73	89.9	89.9	19.1	.0	1.9	.0	91.10	6.78
10697.0	.0	2.72	81.9	83.9	23.8	.3	4.3	.5	90.90	6.76
10698.0	.0	2.71	86.7	86.7	24.3	1.2	3.2	.0	90.66	6.72
10699.0	.0	2.74	87.1	87.1	24.0	1.7	3.1	.0	90.41	6.69
10700.0	1.2	2.76	88.0	88.0	22.5	1.3	2.7	.0	90.17	6.65
10701.0	.0	2.74	87.4	87.4	21.6	.9	2.7	.0	89.95	6.62
10702.0	.0	2.71	91.2	91.2	19.6	.9	1.7	.0	89.74	6.60
10703.0	.0	2.74	82.2	82.2	20.8	3.1	3.7	.0	89.54	6.58
10704.0	.0	2.73	88.3	88.3	19.7	2.0	2.3	.0	89.34	6.55
10705.0	.0	2.72	93.2	93.2	19.4	1.0	1.3	.0	89.14	6.53
10706.0	.0	2.71	90.0	90.0	20.9	1.4	2.1	.0	88.94	6.51
10707.0	.0	2.71	90.8	90.8	21.6	1.1	2.0	.0	88.73	6.49
10708.0	.0	2.74	82.6	85.3	23.9	.8	4.2	.6	88.51	6.47
10709.0	.0	2.76	78.4	81.5	25.1	.0	5.4	.8	88.27	6.42
10710.0	.0	2.71	84.1	88.0	23.6	.0	3.8	.9	88.02	6.37
10711.0	.0	2.71	81.2	86.1	24.5	.3	4.6	1.2	87.78	6.33
10712.0	.0	2.71	80.3	87.2	24.8	.0	4.9	1.7	87.54	6.28
10713.0	.0	2.71	87.5	91.0	23.1	.1	2.9	.8	87.29	6.24
10714.0	.0	2.72	88.6	88.6	22.8	1.6	2.6	.0	87.07	6.22
10715.0	.0	2.74	84.6	84.6	23.8	2.4	3.7	.0	86.83	6.18
10716.0	.7	2.74	87.0	87.0	23.2	1.2	3.0	.0	86.60	6.15
10717.0	.0	2.72	85.1	88.7	24.4	1.0	3.6	.9	86.36	6.12
10718.0	.0	2.70	84.0	89.9	24.8	1.3	4.0	1.4	86.12	6.08
10719.0	.0	2.71	84.4	90.8	24.5	.1	3.8	1.6	85.87	6.04
10720.0	.0	2.74	79.8	84.3	25.3	.8	5.1	1.1	85.62	6.00
10721.0	.0	2.73	82.3	85.5	24.1	.6	4.3	.8	85.37	5.95
10722.0	.0	2.71	82.4	85.5	23.9	1.7	4.2	.7	85.13	5.91
10723.0	.0	2.73	79.2	84.7	24.6	.9	5.1	1.4	84.89	5.87
10724.0	.0	2.75	72.7	81.7	26.3	.0	7.2	2.4	84.64	5.81
10725.0	.0	2.74	68.3	78.8	27.5	.0	8.7	2.9	84.37	5.73
10726.0	.0	2.73	71.8	83.1	26.1	.0	7.4	3.0	84.10	5.65
10727.0	1.1	2.74	78.0	87.0	24.5	.0	5.4	2.2	83.84	5.58
10728.0	2.3	2.73	79.3	86.0	24.3	.8	5.0	1.6	83.60	5.52
10729.0	1.2	2.73	78.8	85.7	24.9	.7	5.3	1.7	83.35	5.47

DEPTH FEET	CLAY CONTENT X	AVERAGE MATRIX DENSITY GMS/CC	WATER SATURATIONS			POROSITY		HYDROCARBONS		CUMULATIVE INTEGRATIONS	
			VIRGIN ZONE (%)	INVADED ZONE	TOTAL	SECONDARY	TOTAL	Movable	X	POR-FT	HC-FT
10730.0	.0	2.72	81.3	85.4	24.7	1.0	4.6	1.0	83.10	5.42	
10731.0	.0	2.71	84.0	89.3	23.9	1.0	3.8	1.3	82.86	5.38	
10732.0	.0	2.73	84.1	89.7	23.7	1.8	3.8	1.3	82.62	5.34	
10733.0	.0	2.75	87.5	87.6	23.2	2.0	2.9	0	82.38	5.30	
10734.0	.0	2.73	89.2	89.2	23.2	2.2	2.5	0	82.16	5.28	
10735.0	.0	2.72	86.9	87.4	24.4	2.0	3.2	.1	81.92	5.25	
10736.0	.0	2.76	84.8	86.3	25.9	1.7	3.9	.4	81.67	5.22	
10737.0	.0	2.76	85.3	86.3	26.7	1.8	3.9	.3	81.41	5.18	
10738.0	.0	2.76	84.2	87.3	26.8	1.9	4.2	.8	81.15	5.14	
10739.0	.0	2.82	77.6	80.0	28.4	3.3	6.4	.7	80.87	5.09	
10740.0	.0	2.77	84.3	85.4	25.6	2.0	4.0	.3	80.59	5.03	
10741.0	.0	2.75	86.9	86.9	24.1	2.1	3.2	0	80.34	4.99	
10742.0	.0	2.72	89.1	89.1	22.7	2.1	2.5	0	80.11	4.96	
10743.0	.0	2.75	87.9	88.4	22.4	1.7	2.7	.1	79.88	4.94	
10744.0	.0	2.75	90.0	90.0	21.9	1.4	2.2	0	79.66	4.91	
10745.0	.0	2.74	88.0	88.0	22.3	2.1	2.7	0	79.44	4.89	
10746.0	3.3	2.73	99.6	99.6	19.3	1.1	.1	0	79.23	4.87	
10747.0	3.1	2.74	94.6	94.6	20.2	1.6	1.1	0	79.03	4.87	
10748.0	2.8	2.75	90.2	90.4	21.0	2.0	2.0	0	78.83	4.86	
10749.0	1.3	2.74	85.9	90.5	22.1	2.1	3.1	1.0	78.62	4.83	
10750.0	1.8	2.73	87.0	92.2	21.6	1.8	2.8	1.1	78.40	4.81	
10751.0	1.6	2.75	84.4	87.8	22.0	2.0	3.4	.8	78.18	4.78	
10752.0	3.2	2.74	88.5	90.7	20.6	2.1	2.4	.5	77.96	4.74	
10753.0	2.9	2.73	96.0	96.6	19.2	1.3	.8	.1	77.76	4.72	
10754.0	1.4	2.77	92.5	93.0	20.2	1.3	1.5	.1	77.57	4.72	
10755.0	1.3	2.72	96.1	97.9	19.7	.9	.8	.4	77.37	4.70	
10756.0	1.3	2.74	88.6	88.6	21.3	2.0	2.4	0	77.17	4.69	
10757.0	.0	2.71	92.6	92.6	20.7	2.0	1.5	0	76.95	4.67	
10758.0	1.3	2.73	94.1	94.1	20.0	2.0	1.2	0	76.74	4.65	
10759.0	1.6	2.74	93.5	93.5	20.1	2.1	1.3	0	76.55	4.64	
10760.0	2.3	2.72	94.2	94.8	19.9	1.7	1.1	.1	76.35	4.63	
10761.0	2.9	2.72	94.4	96.9	19.9	1.5	1.1	.5	76.15	4.61	
10762.0	1.6	2.75	88.0	88.1	21.5	2.0	2.6	0	75.94	4.60	
10763.0	2.1	2.74	91.3	91.3	20.7	2.0	1.8	0	75.73	4.58	
10764.0	.0	2.70	92.3	92.3	21.0	2.6	1.6	0	75.52	4.56	
10765.0	.0	2.72	92.5	92.5	21.1	2.0	1.6	0	75.31	4.54	
10766.0	.0	2.71	90.2	90.2	21.9	2.8	2.1	0	75.10	4.52	
10767.0	.0	2.72	90.3	91.8	22.2	2.1	2.2	.4	74.88	4.50	
10768.0	.0	2.73	86.6	86.6	23.1	1.8	3.1	0	74.65	4.48	
10769.0	.0	2.76	84.7	84.7	23.3	2.5	3.6	0	74.42	4.44	
10770.0	.0	2.74	84.6	84.6	22.7	3.2	3.5	0	74.18	4.41	
10771.0	.0	2.74	84.3	84.7	22.3	2.9	3.5	.1	73.96	4.37	
10772.0	.0	2.74	85.9	86.9	21.7	2.6	3.0	.2	73.74	4.34	
10773.0	.0	2.72	94.5	97.5	20.3	1.5	1.1	.6	73.53	4.31	
10774.0	.0	2.72	93.6	97.7	20.9	1.1	1.3	.8	73.32	4.30	
10775.0	.0	2.75	88.4	89.3	22.5	1.9	2.6	.2	73.11	4.28	
10776.0	.0	2.74	90.2	90.9	22.5	2.1	2.2	.2	72.88	4.26	
10777.0	.0	2.72	88.0	90.7	22.9	2.6	2.7	.6	72.66	4.24	

DEPTH FEET	CLAY CONTENT %	AVERAGE MATRIX DENSITY GMS/CC	WATER SATURATIONS			POROSITY		HYDROCARBONS		CUMULATIVE INTEGRATIONS		
			VIRGIN ZONE (%)	INVADED ZONE	TOTAL	SECONDARY	TOTAL	Movable	POR-FT	HC-FT		
10778.0	.0	2.75	87.1	88.8	22.9	2.7	3.0	.4	72.43	4.21		
10779.0	.0	2.74	86.7	86.7	22.8	5.6	3.0	.0	72.20	4.18		
10780.0	.0	2.76	85.0	85.0	23.3	6.6	3.5	.0	71.97	4.15		
10781.0	.0	2.77	86.2	86.2	23.2	3.8	3.2	.0	71.74	4.11		
10782.0	.0	2.77	88.6	88.6	23.0	2.3	2.6	.0	71.51	4.08		
10783.0	.0	2.73	94.1	94.1	22.2	1.7	1.3	.0	71.28	4.06		
10784.0	.0	2.70	93.6	93.6	22.5	2.2	1.5	.0	71.06	4.05		
10785.0	.0	2.70	92.8	92.8	22.5	2.3	1.6	.0	70.83	4.03		
10786.0	.0	2.72	91.1	91.1	22.6	2.1	2.0	.0	70.61	4.01		
10787.0	.0	2.77	87.7	87.7	23.1	2.4	2.8	.0	70.38	3.99		
10788.0	.0	2.76	91.0	91.4	22.1	1.3	2.0	.1	70.15	3.97		
10789.0	.0	2.74	86.6	86.6	22.8	2.4	3.1	.0	69.93	3.94		
10790.0	.0	2.76	87.5	87.5	22.5	2.1	2.8	.0	69.70	3.92		
10791.0	.0	2.75	91.7	91.7	21.7	2.0	1.8	.0	69.48	3.89		
10792.0	.0	2.72	92.7	92.7	21.6	1.7	1.6	.0	69.26	3.87		
10793.0	.0	2.73	93.5	93.5	21.8	1.1	1.4	.0	69.05	3.86		
10794.0	.0	2.70	92.5	93.9	22.1	1.7	1.7	.3	68.83	3.84		
10795.0	.0	2.74	86.9	88.7	23.3	1.8	3.1	.4	68.61	3.82		
10796.0	.0	2.77	86.7	86.7	23.2	1.7	3.1	.0	68.37	3.79		
10797.0	.0	2.73	91.4	91.4	22.2	2.1	1.9	.0	68.14	3.77		
10798.0	.0	2.77	86.1	86.1	23.6	2.6	3.3	.0	67.92	3.74		
10799.0	.0	2.73	93.1	94.2	22.5	1.1	1.5	.2	67.68	3.71		
10800.0	.0	2.71	96.5	96.9	22.3	.5	.8	.1	67.46	3.70		
10801.0	.0	2.70	93.9	94.1	23.4	2.2	1.4	.0	67.23	3.69		
10802.0	.0	2.73	88.1	90.1	24.9	2.1	3.0	.5	66.99	3.67		
10803.0	.0	2.75	85.9	87.7	25.1	2.2	3.5	.4	66.75	3.64		
10804.0	.0	2.76	89.9	89.9	23.6	1.5	2.4	.0	66.50	3.61		
10805.0	.0	2.75	96.9	96.9	21.6	.7	.7	.0	66.27	3.59		
10806.0	.0	2.74	98.4	98.4	20.8	.7	.3	.0	66.05	3.59		
10807.0	.0	2.76	87.9	87.9	22.7	1.9	2.7	.0	65.84	3.58		
10808.0	.0	2.72	89.6	89.6	22.2	1.9	2.3	.0	65.61	3.55		
10809.0	.0	2.73	91.3	91.3	21.6	1.8	1.9	.0	65.39	3.52		
10810.0	.0	2.70	96.2	96.2	20.3	1.6	.8	.0	65.18	3.51		
10811.0	.0	2.69	92.3	92.3	20.3	3.3	1.6	.0	64.98	3.50		
10812.0	.0	2.69	96.3	96.3	19.0	3.5	.7	.0	64.78	3.49		
10813.0	.0	2.69	97.9	97.9	18.4	4.4	.4	.0	64.59	3.48		
10814.0	.0	2.69	86.1	86.1	20.4	5.5	2.8	.0	64.40	3.47		
10815.0	.0	2.71	84.2	87.2	20.7	1.8	3.3	.6	64.19	3.44		
10816.0	2.6	2.74	90.0	95.3	19.4	2.0	1.9	1.0	63.99	3.41		
10817.0	1.1	2.75	88.3	91.0	20.6	2.5	2.4	.5	63.79	3.39		
10818.0	.0	2.76	89.0	89.0	21.3	1.7	2.3	.0	63.58	3.36		
10819.0	.0	2.71	98.6	98.6	20.0	1.1	.3	.0	63.37	3.34		
10820.0	.0	2.69	100.0	100.0	19.6	1.8	.0	.0	63.17	3.34		
10821.0	.2	2.72	98.0	98.0	20.9	1.5	.4	.0	62.98	3.34		
10822.0	.0	2.72	91.0	91.2	22.5	2.0	2.0	.0	62.76	3.33		
10823.0	.0	2.76	89.6	90.3	22.9	2.1	2.4	.1	62.53	3.31		
10824.0	.0	2.75	92.5	92.5	22.3	1.7	1.7	.0	62.31	3.29		
10825.0	.0	2.71	91.6	91.6	22.3	2.4	1.9	.0	62.09	3.28		

DEPTH FEET	CLAY CONTENT %	AVERAGE MATRIX DENSITY GMS/CC	WATER SATURATIONS			POROSITY %	HYDROCARBONS		CUMULATIVE INTEGRATIONS	
			VIRGIN ZONE (%)	INVADED ZONE	TOTAL		SECONDARY	TOTAL	Movable	%
10826.0	.0	2.73	92.6	92.6	22.0	1.8	1.6	.0	61.86	3.26
10827.0	.0	2.77	90.5	90.5	22.5	1.9	2.1	.0	61.64	3.24
10828.0	.0	2.77	92.0	92.0	22.0	1.0	1.8	.0	61.42	3.22
10829.0	.0	2.74	93.4	93.4	22.0	1.4	1.4	.0	61.20	3.20
10830.0	.0	2.74	92.6	92.6	22.6	2.0	1.7	.0	60.98	3.19
10831.0	.0	2.70	94.9	94.9	22.4	2.9	1.1	.0	60.76	3.18
10832.0	.0	2.69	90.5	90.5	23.3	3.2	2.2	.0	60.53	3.16
10833.0	.0	2.69	89.7	91.4	22.6	2.3	2.3	.4	60.30	3.15
10834.0	.0	2.71	91.4	91.4	20.8	1.2	1.8	.0	60.08	3.12
10835.0	.0	2.70	92.4	92.4	19.0	3.3	1.4	.0	59.88	3.11
10836.0	2.0	2.72	100.0	100.0	16.1	2.0	.0	.0	59.69	3.10
10837.0	.0	2.70	100.0	100.0	17.5	2.7	.0	.0	59.53	3.10
10838.0	.0	2.71	93.1	93.1	19.6	1.4	1.4	.0	59.35	3.09
10839.0	.0	2.72	93.6	98.2	21.0	.3	1.3	1.0	59.15	3.08
10840.0	.0	2.70	97.5	97.5	22.0	1.6	.6	.0	58.94	3.07
10841.0	.0	2.69	98.5	99.7	22.1	1.7	.3	.3	58.72	3.06
10842.0	.0	2.72	91.0	92.6	23.5	1.1	2.1	.4	58.49	3.06
10843.0	.0	2.71	93.0	94.9	22.4	1.9	1.6	.4	58.26	3.03
10844.0	.0	2.70	93.1	95.8	21.7	2.3	1.5	.6	58.04	3.02
10845.0	.0	2.71	92.9	93.4	21.4	1.8	1.5	.1	57.82	3.00
10846.0	.0	2.71	90.5	90.5	21.3	2.3	2.0	.0	57.61	2.98
10847.0	.0	2.69	93.3	93.4	20.9	3.3	1.4	.0	57.39	2.96
10848.0	.0	2.69	87.0	89.0	22.7	4.3	3.0	.5	57.18	2.95
10849.0	.0	2.69	88.2	91.3	23.0	3.6	2.7	.7	56.95	2.92
10850.0	.0	2.71	89.0	91.9	23.1	2.1	2.5	.7	56.72	2.89
10851.0	.2	2.72	91.7	93.8	22.4	1.6	1.9	.5	56.49	2.87
10852.0	.0	2.72	90.3	90.9	22.4	2.1	2.2	.1	56.26	2.85
10853.0	.0	2.71	92.5	92.5	21.9	2.1	1.6	.0	56.04	2.83
10854.0	.0	2.72	94.2	94.2	21.8	1.9	1.3	.0	55.82	2.81
10855.0	.0	2.71	94.9	94.9	22.3	1.6	1.1	.0	55.60	2.80
10856.0	.0	2.70	92.7	92.7	23.4	2.9	1.7	.0	55.38	2.78
10857.0	.0	2.70	94.9	94.9	23.3	1.6	1.2	.0	55.14	2.77
10858.0	.0	2.70	95.0	95.0	23.4	2.2	1.2	.0	54.91	2.76
10859.0	.0	2.74	92.8	92.8	23.9	2.8	1.7	.0	54.67	2.74
10860.0	.0	2.74	97.1	97.1	23.2	1.8	.7	.0	54.44	2.73
10861.0	.0	2.77	89.2	89.2	25.5	1.9	2.8	.0	54.20	2.72
10862.0	.0	2.74	90.2	90.5	25.7	1.8	2.5	.1	53.95	2.69
10863.0	.0	2.76	90.8	90.8	26.0	1.3	2.4	.0	53.69	2.67
10864.0	.0	2.72	96.6	96.6	24.5	.9	.8	.0	53.43	2.65
10865.0	.0	2.74	91.2	91.2	25.7	2.3	2.2	.0	53.18	2.63
10866.0	.0	2.73	92.2	92.2	25.0	2.1	1.9	.0	52.93	2.61
10867.0	.0	2.70	93.6	93.6	24.3	1.6	1.5	.0	52.68	2.59
10868.0	.0	2.72	92.5	92.9	24.0	1.3	1.8	.1	52.44	2.58
10869.0	.0	2.73	89.6	89.6	24.2	1.9	2.5	.0	52.20	2.56
10870.0	.0	2.72	89.3	89.3	23.7	1.8	2.5	.0	51.96	2.53
10871.0	.0	2.74	87.9	87.9	24.0	1.7	2.9	.0	51.72	2.51
10872.0	.0	2.72	92.2	92.2	23.2	1.1	1.8	.0	51.48	2.48
10873.0	.0	2.72	91.2	91.9	23.8	1.3	2.1	.2	51.25	2.46

DEPTH FEET	CLAY CONTENT %	AVERAGE MATRIX DENSITY GMS/CC	WATER SATURATIONS			POROSITY		HYDROCARBONS			CUMULATIVE INTEGRATIONS		
			VIRGIN ZONE (%)	INVADED ZONE (%)	TOTAL %	SECONDARY %	TOTAL %	Movable %	%	%	PER-FT	HC-FT	
10874.0	.0	2.72	88.6	88.6	24.9	1.9	2.8	.0	51.01	2.44			
10875.0	.0	2.70	92.8	92.8	24.1	2.1	1.7	.0	50.76	2.42			
10876.0	.0	2.69	94.5	95.5	23.8	1.9	1.3	.2	50.52	2.40			
10877.0	.0	2.71	90.7	92.8	24.9	1.6	2.3	.5	50.28	2.38			
10878.0	.0	2.71	91.4	92.5	24.9	1.0	2.1	.3	50.03	2.36			
10879.0	.0	2.73	91.6	91.6	25.1	1.0	2.1	.0	49.78	2.34			
10880.0	.0	2.70	94.5	94.5	24.5	1.7	1.4	.0	49.53	2.32			
10881.0	.0	2.71	95.8	95.8	24.2	1.6	1.0	.0	49.29	2.31			
10882.0	.0	2.72	92.8	92.8	24.4	2.4	1.8	.0	49.04	2.29			
10883.0	.0	2.74	91.9	91.9	23.9	2.6	1.9	.0	48.80	2.27			
10884.0	.0	2.71	93.1	93.1	22.6	2.7	1.6	.0	48.56	2.26			
10885.0	.0	2.74	89.0	91.6	22.8	2.5	2.5	.6	48.34	2.24			
10886.0	1.8	2.74	91.7	96.3	21.2	2.3	1.7	1.0	48.11	2.21			
10887.0	1.3	2.71	94.3	98.8	20.1	1.5	1.2	.9	47.90	2.20			
10888.0	.0	2.72	92.9	98.5	19.8	1.6	1.4	1.1	47.70	2.19			
10889.0	.7	2.72	100.0	100.0	17.4	1.1	0.0	0.0	47.52	2.18			
10890.0	.0	2.72	100.0	100.0	17.6	1.3	0.0	0.0	47.34	2.18			
10891.0	.0	2.71	99.8	100.0	17.8	.8	0.0	0.0	47.16	2.18			
10892.0	.0	2.71	97.2	97.2	18.8	.7	.5	.0	46.99	2.18			
10893.0	.0	2.72	91.8	91.8	20.2	1.2	1.7	.0	46.79	2.17			
10894.0	.9	2.72	91.3	91.3	20.3	1.6	1.8	.0	46.59	2.15			
10895.0	.0	2.72	94.6	94.6	19.7	2.2	1.1	.0	46.39	2.13			
10896.0	.0	2.71	99.2	99.2	18.8	1.9	.2	.0	46.19	2.12			
10897.0	.0	2.70	97.5	97.5	18.8	2.4	.5	.0	46.00	2.12			
10898.0	.0	2.70	96.4	96.4	18.7	3.1	.7	.0	45.82	2.12			
10899.0	.0	2.71	99.6	99.6	17.9	2.9	.1	.0	45.63	2.11			
10900.0	.0	2.72	100.0	100.0	16.9	2.4	.0	.0	45.45	2.11			
10901.0	.0	2.73	100.0	100.0	16.4	2.3	.0	.0	45.29	2.11			
10902.0	3.8	2.73	100.0	100.0	14.8	2.2	.0	.0	45.12	2.11			
10903.0	1.8	2.73	100.0	100.0	15.5	1.4	.0	.0	44.97	2.11			
10904.0	.0	2.72	100.0	100.0	15.0	1.4	.0	.0	44.82	2.11			
10905.0	.0	2.73	100.0	100.0	14.6	1.3	.0	.0	44.67	2.11			
10906.0	.0	2.74	90.2	90.2	16.2	1.9	1.6	.0	44.52	2.11			
10907.0	.0	2.75	88.2	88.2	16.9	2.1	2.0	.0	44.36	2.09			
10908.0	.0	2.72	100.0	100.0	15.8	1.3	.0	.0	44.19	2.08			
10909.0	.0	2.70	100.0	100.0	16.3	2.8	.0	.0	44.03	2.08			
10910.0	.0	2.71	95.7	95.7	18.3	2.8	.8	.0	43.87	2.08			
10911.0	.0	2.72	92.2	92.2	19.6	2.5	1.5	.0	43.68	2.06			
10912.0	.0	2.75	90.6	90.6	20.4	1.8	1.9	.0	43.48	2.05			
10913.0	.0	2.73	92.6	92.6	20.1	1.6	1.5	.0	43.27	2.03			
10914.0	.0	2.73	91.8	91.8	19.7	1.7	1.6	.0	43.07	2.01			
10915.0	.0	2.73	86.0	86.0	19.5	2.8	2.7	.0	42.88	1.99			
10916.0	.0	2.70	90.4	90.4	17.4	3.2	1.7	.0	42.68	1.97			
10917.0	.0	2.69	96.4	96.4	15.9	3.4	.6	.0	42.51	1.95			
10918.0	.0	2.73	90.9	90.9	16.8	1.9	1.5	.0	42.36	1.95			
10919.0	.0	2.75	83.3	87.4	18.8	2.0	3.1	.8	42.18	1.93			
10920.0	.0	2.75	78.2	83.7	20.9	3.1	4.6	1.2	41.99	1.89			
10921.0	.0	2.77	76.3	81.3	21.8	3.6	5.2	1.1	41.78	1.84			

DEPTH FEET	CLAY CONTENT %	AVERAGE MATRIX DENSITY GMS/CC	WATER SATURATIONS			POROSITY		HYDROCARBONS		CUMULATIVE INTEGRATIONS		
			VIRGIN ZONE (%)	INVADED ZONE	TOTAL %	SECONDARY %	TOTAL	Movable	%	PER-FT	HC-FT	
10922.0	.0	2.74	84.1	89.5	19.5	2.2		3.1	1.1	41.56	1.80	
10923.0	.0	2.72	87.3	94.8	18.0	1.7		2.3	1.4	41.37	1.77	
10924.0	.0	2.73	84.4	88.5	17.6	2.0		2.7	.7	41.20	1.75	
10925.0	.0	2.72	86.0	86.0	16.5	2.5		2.3	.0	41.02	1.72	
10926.0	.0	2.71	100.0	100.0	13.7	1.8		0.0	0.0	40.86	1.70	
10927.0	.0	2.70	97.4	97.4	14.2	3.3		0.4	0.0	40.72	1.70	
10928.0	.0	2.73	93.8	97.0	14.8	1.8		0.9	.5	40.58	1.69	
10929.0	.0	2.74	89.2	92.6	15.7	1.7		1.7	.5	40.43	1.68	
10930.0	.0	2.71	95.6	95.6	15.1	1.4		.7	0.0	40.27	1.67	
10931.0	.0	2.71	100.0	100.0	15.0	2.4		0.0	0.0	40.12	1.66	
10932.0	.0	2.71	100.0	100.0	14.0	1.8		0.0	0.0	39.98	1.66	
10933.0	.0	2.71	100.0	100.0	16.3	2.3		0.0	0.0	39.83	1.66	
10934.0	.0	2.72	97.5	97.5	17.7	1.4		0.4	0.0	39.66	1.66	
10935.0	.0	2.70	98.1	98.1	17.7	2.5		0.3	0.0	39.49	1.65	
10936.0	.0	2.69	100.0	100.0	16.5	3.1		0.0	0.0	39.31	1.65	
10937.0	.0	2.70	100.0	100.0	15.1	2.4		0.0	0.0	39.15	1.65	
10938.0	.0	2.72	100.0	100.0	13.9	1.1		0.0	0.0	39.00	1.65	
10939.0	.0	2.73	98.8	98.8	12.4	.3		0.2	0.0	38.87	1.65	
10940.0	.0	2.72	97.5	97.5	11.4	.6		0.3	0.0	38.74	1.64	
10941.0	.4	2.71	96.3	98.3	10.8	.5		0.4	0.2	38.63	1.64	
10942.0	.0	2.74	88.3	90.3	11.3	.2		1.3	.2	38.53	1.64	
10943.0	.0	2.73	82.3	83.7	11.6	1.5		2.1	.2	38.41	1.62	
10944.0	.0	2.72	90.8	92.2	10.5	.8		1.0	.1	38.30	1.60	
10945.0	.0	2.71	93.3	93.3	10.1	.3		0.7	0.0	38.20	1.60	
10946.0	.0	2.70	90.9	97.7	10.2	1.4		.9	.7	38.09	1.59	
10947.0	.0	2.71	93.9	98.7	9.9	.0		0.6	.5	37.99	1.58	
10948.0	.0	2.72	83.9	91.7	10.9	.3		1.8	.9	37.89	1.57	
10949.0	.0	2.73	86.8	87.1	10.8	1.6		1.4	0.0	37.78	1.55	
10950.0	.0	2.72	91.2	91.2	10.5	.8		.9	0.0	37.67	1.54	
10951.0	.0	2.72	94.6	94.6	11.0	.8		0.6	0.0	37.57	1.53	
10952.0	.0	2.70	100.0	100.0	11.6	2.0		0.0	0.0	37.46	1.53	
10953.0	.0	2.69	100.0	100.0	12.7	1.3		0.0	0.0	37.34	1.53	
10954.0	.0	2.70	100.0	100.0	14.3	.3		0.0	0.0	37.21	1.53	
10955.0	.0	2.69	89.9	95.9	16.5	3.4		1.7	1.0	37.06	1.53	
10956.0	.0	2.70	95.3	96.8	16.1	2.7		.8	.2	36.90	1.51	
10957.0	.0	2.70	100.0	100.0	15.5	2.7		0.0	0.0	36.74	1.51	
10958.0	.0	2.70	100.0	100.0	15.1	.0		0.0	0.0	36.58	1.51	
10959.0	.0	2.70	100.0	100.0	16.4	.0		0.0	0.0	36.43	1.51	
10960.0	.0	2.71	87.9	97.4	19.2	1.1		2.3	1.8	36.26	1.50	
10961.0	.0	2.72	88.2	91.1	19.8	1.9		2.3	.6	36.06	1.47	
10962.0	1.2	2.73	94.0	94.0	18.8	1.5		1.1	0.0	35.87	1.45	
10963.0	.0	2.73	94.3	95.5	18.9	.7		1.1	.2	35.68	1.44	
10964.0	.0	2.73	91.4	92.1	19.3	1.7		1.7	.1	35.49	1.43	
10965.0	.0	2.72	94.8	94.8	18.5	1.5		1.0	0.0	35.30	1.42	
10966.0	.0	2.69	100.0	100.0	16.6	1.0		0.0	0.0	35.12	1.41	
10967.0	.0	2.70	97.9	97.9	17.7	1.7		0.4	0.0	34.95	1.41	
10968.0	.0	2.70	92.5	92.5	18.6	2.4		1.4	0.0	34.77	1.40	
10969.0	.0	2.70	97.7	97.7	17.6	1.8		.4	0.0	34.59	1.39	

DEPTH FEET	CLAY CONTENT %	AVERAGE MATRIX DENSITY GMS/CC	WATER SATURATIONS		POROSITY		HYDROCARBONS		CUMULATIVE INTEGRATIONS		
			VIRGIN ZONE (%)	INVADED ZONE (%)	TOTAL %	SECONDARY %	TOTAL %	MOVABLE %	X	X	PER-FT
10970.0	.0	2.72	100.0	100.0	16.1	.0	.0	.0	34.41	1.39	
10971.0	.0	2.72	100.0	100.0	16.7	.3	.0	.0	34.25	1.39	
10972.0	.0	2.69	100.0	100.0	16.8	1.6	.0	.0	34.08	1.39	
10973.0	.0	2.71	98.5	98.5	17.5	1.3	.3	.0	33.92	1.39	
10974.0	.0	2.76	95.0	95.0	17.9	1.4	.9	.0	33.74	1.38	
10975.0	.0	2.74	97.1	97.1	17.4	1.5	.5	.0	33.56	1.38	
10976.0	.0	2.73	97.1	97.1	17.1	1.3	.5	.0	33.39	1.37	
10977.0	.0	2.70	99.9	99.9	16.5	1.4	.0	.0	33.22	1.37	
10978.0	.0	2.70	99.4	99.4	16.6	2.1	.1	.0	33.05	1.37	
10979.0	.0	2.72	100.0	100.0	16.1	.9	.0	.0	32.89	1.37	
10980.0	.0	2.73	100.0	100.0	16.2	.0	.0	.0	32.73	1.37	
10981.0	.0	2.71	99.2	99.8	17.7	.9	1.1	.1	32.56	1.37	
10982.0	.0	2.69	98.5	99.7	18.3	2.3	.3	.2	32.38	1.36	
10983.0	.0	2.70	95.6	97.9	19.0	1.3	.8	.4	32.20	1.36	
10984.0	.0	2.69	100.0	100.0	18.1	1.3	.0	.0	32.01	1.35	
10985.0	.0	2.69	100.0	100.0	17.1	1.3	.0	.0	31.83	1.35	
10986.0	.0	2.70	100.0	100.0	16.8	.1	.0	.0	31.66	1.35	
10987.0	.1	2.71	100.0	100.0	16.5	.0	.0	.0	31.49	1.35	
10988.0	.9	2.72	98.1	98.1	17.1	.5	.3	.0	31.33	1.35	
10989.0	1.5	2.73	100.0	100.0	16.2	.0	.0	.0	31.16	1.35	
10990.0	.0	2.72	96.0	96.0	17.6	.6	.7	.0	30.99	1.35	
10991.0	.0	2.73	94.2	96.7	17.9	.4	1.0	.4	30.81	1.34	
10992.0	.0	2.72	99.4	99.9	17.2	.0	.1	.1	30.63	1.33	
10993.0	.0	2.70	98.5	99.7	17.4	.9	.3	.2	30.46	1.33	
10994.0	.0	2.70	90.9	92.7	18.1	1.7	1.6	.3	30.29	1.32	
10995.0	.0	2.71	93.2	95.7	16.7	.8	1.1	.4	30.11	1.31	
10996.0	.0	2.70	100.0	100.0	15.1	1.3	.0	.0	29.95	1.30	
10997.0	.0	2.71	100.0	100.0	12.2	.0	.0	.0	29.80	1.30	
10998.0	1.7	2.74	100.0	100.0	13.0	.0	.0	.0	29.68	1.30	
10999.0	.0	2.74	97.1	99.4	16.1	.0	.5	.4	29.54	1.30	
11000.0	.0	2.69	96.3	96.9	16.5	2.2	.6	.1	29.38	1.29	
11001.0	.0	2.69	100.0	100.0	15.2	2.2	.0	.0	29.22	1.29	
11002.0	.0	2.69	100.0	100.0	15.4	2.5	.0	.0	29.06	1.29	
11003.0	2.4	2.72	100.0	100.0	14.4	.2	.0	.0	28.91	1.29	
11004.0	.0	2.76	97.1	99.4	15.5	.0	.4	.4	28.76	1.29	
11005.0	.0	2.74	100.0	100.0	13.7	.1	.0	.0	28.61	1.29	
11006.0	.0	2.70	100.0	100.0	13.6	2.0	.0	.0	28.48	1.29	
11007.0	.0	2.70	100.0	100.0	12.9	1.6	.0	.0	28.34	1.29	
11008.0	.2	2.74	100.0	100.0	12.7	.7	.0	.0	28.21	1.29	
11009.0	.0	2.72	100.0	100.0	13.2	.9	.0	.0	28.08	1.29	
11010.0	1.8	2.72	100.0	100.0	11.8	.9	.0	.0	27.95	1.29	
11011.0	.1	2.71	100.0	100.0	11.8	.0	.0	.0	27.83	1.29	
11012.0	.1	2.71	100.0	100.0	12.6	.4	.0	.0	27.71	1.29	
11013.0	2.0	2.71	100.0	100.0	13.8	1.8	.0	.0	27.58	1.29	
11014.0	.2	2.72	89.8	94.2	16.1	1.4	1.6	.7	27.44	1.28	
11015.0	.0	2.71	89.5	89.5	16.6	2.0	1.7	.0	27.28	1.27	
11016.0	.0	2.71	90.4	90.8	16.6	2.1	1.6	.1	27.11	1.25	
11017.0	.0	2.71	91.9	96.1	16.5	1.5	1.3	.7	26.95	1.23	

DEPTH FEET	CLAY CONTENT %	AVERAGE MATRIX DENSITY GMS/CC	WATER SATURATIONS			POROSITY		HYDROCARBONS		CUMULATIVE		
			VIRGIN ZONE (%)	INVADED ZONE (%)	TOTAL	SECONDARY	TOTAL	MOVEABLE	%	INTEGRATIONS PER-FT	HC-FT	
11018.0	1.1	2.72	88.5	94.6	16.6	1.8	1.9	1.0	26.78	1.22		
11019.0	.0	2.71	87.8	91.2	16.5	1.4	2.0	.6	26.61	1.20		
11020.0	.0	2.71	96.6	96.6	15.0	.8	.5	.0	26.45	1.18		
11021.0	.0	2.71	100.0	100.0	14.0	.7	.0	.0	26.31	1.18		
11022.0	.0	2.71	94.0	97.3	14.4	.5	.9	.5	26.17	1.18		
11023.0	.0	2.72	86.7	96.0	15.2	1.0	2.0	1.4	26.02	1.17		
11024.0	.0	2.69	89.6	97.8	14.9	2.0	1.6	1.2	25.87	1.15		
11025.0	.0	2.69	91.9	98.3	14.6	2.1	1.2	.9	25.72	1.13		
11026.0	.0	2.69	91.7	98.3	14.6	2.2	1.2	1.0	25.57	1.12		
11027.0	.0	2.69	89.4	97.8	14.9	2.5	1.6	1.3	25.43	1.11		
11028.0	.0	2.69	93.1	98.6	14.5	1.8	1.0	.8	25.28	1.09		
11029.0	.0	2.69	95.5	99.1	14.3	1.1	.6	.5	25.13	1.08		
11030.0	.0	2.70	96.9	99.4	14.1	.2	.4	.3	24.99	1.08		
11031.0	.0	2.70	92.3	98.4	14.7	1.4	1.1	.9	24.85	1.07		
11032.0	.0	2.70	92.9	98.5	14.6	.9	1.0	.8	24.70	1.06		
11033.0	.0	2.71	93.6	98.7	14.6	.6	.9	.7	24.56	1.05		
11034.0	.0	2.70	92.7	95.4	14.8	1.3	1.1	.4	24.41	1.04		
11035.0	.0	2.70	89.1	92.0	15.4	1.5	1.7	.4	24.26	1.03		
11036.0	.0	2.70	91.2	91.3	15.1	1.1	1.3	.0	24.11	1.01		
11037.0	.0	2.70	90.5	90.5	15.2	1.5	1.4	.0	23.96	1.00		
11038.0	.0	2.72	94.4	96.8	14.6	.4	.8	.3	23.80	.98		
11039.0	.8	2.71	100.0	100.0	13.4	.0	.0	.0	23.66	.98		
11040.0	.0	2.70	95.7	99.1	14.6	1.1	.6	.5	23.52	.98		
11041.0	.0	2.70	91.8	98.3	15.3	1.9	1.3	1.0	23.38	.97		
11042.0	.0	2.70	92.4	98.2	15.5	1.7	1.2	.9	23.22	.96		
11043.0	.0	2.69	92.4	98.3	15.7	2.2	1.2	.9	23.07	.95		
11044.0	.0	2.71	91.9	98.3	15.8	1.1	1.3	1.0	22.91	.94		
11045.0	.0	2.69	94.6	98.9	15.4	1.7	.8	.7	22.75	.93		
11046.0	.0	2.70	98.9	99.8	14.8	1.1	.2	.1	22.60	.92		
11047.0	.0	2.71	100.0	100.0	14.2	.0	.0	.0	22.45	.92		
11048.0	.0	2.70	100.0	100.0	14.2	.0	.0	.0	22.31	.92		
11049.0	.0	2.69	99.8	100.0	14.7	1.2	.0	.0	22.17	.92		
11050.0	.0	2.69	95.7	99.1	15.4	1.9	.7	.5	22.02	.91		
11051.0	.0	2.72	99.0	99.8	14.8	.0	.2	.1	21.87	.91		
11052.0	.0	2.70	96.1	99.2	15.1	.8	.6	.5	21.72	.91		
11053.0	.0	2.71	99.9	100.0	14.5	.3	.0	.0	21.57	.90		
11054.0	.0	2.73	99.7	99.9	14.4	.1	.0	.0	21.43	.90		
11055.0	.0	2.72	95.8	99.1	14.8	.4	.6	.5	21.28	.90		
11056.0	.0	2.73	98.9	99.8	14.5	.0	.2	.1	21.13	.89		
11057.0	.0	2.70	100.0	100.0	14.3	1.6	.0	.0	20.99	.89		
11058.0	.0	2.70	100.0	100.0	14.7	1.2	.0	.0	20.84	.89		
11059.0	.0	2.69	100.0	100.0	15.1	1.1	.0	.0	20.69	.89		
11060.0	.0	2.69	94.8	97.3	16.1	2.2	.8	.4	20.54	.89		
11061.0	.0	2.71	95.9	97.3	16.3	.6	.7	.2	20.38	.88		
11062.0	.0	2.70	95.3	97.5	16.2	1.5	.8	.4	20.22	.88		
11063.0	.0	2.70	94.0	94.0	15.9	1.4	1.0	.0	20.06	.87		
11064.0	.3	2.71	100.0	100.0	14.2	.5	.0	.0	19.90	.86		
11065.0	.0	2.72	100.0	100.0	12.9	.6	.0	.0	19.76	.86		

DEPTH FEET	CLAY CONTENT %	AVERAGE MATRIX DENSITY GMS/CC	WATER SATURATIONS		POROSITY		HYDROCARBONS		CUMULATIVE INTEGRATIONS	
			VIRGIN ZONE (%)	INVADED ZONE (%)	TOTAL ZONE %	SECONDARY ZONE %	TOTAL X	Movable X	PER-FT	HC-FT
11066.0	.0	2.71	100.0	100.0	12.8	1.0	.0	.0	19.64	.86
11067.0	.0	2.70	99.7	99.7	15.1	1.5	.1	.0	19.50	.86
11068.0	.0	2.71	89.8	94.4	17.5	1.2	1.8	.8	19.35	.86
11069.0	.0	2.71	89.9	89.9	17.6	2.0	1.8	.0	19.17	.84
11070.0	.0	2.72	99.5	99.5	15.4	2.0	.1	.0	19.00	.82
11071.0	.9	2.73	100.0	100.0	13.1	1.6	.0	.0	18.85	.82
11072.0	.0	2.73	100.0	100.0	11.9	.0	.0	.0	18.72	.82
11073.0	.0	2.70	85.2	93.0	13.4	1.0	2.0	1.0	18.60	.82
11074.0	.0	2.74	85.4	90.7	13.0	1.2	1.9	.7	18.47	.80
11075.0	.0	2.74	98.4	98.4	11.4	.9	.2	.0	18.34	.79
11076.0	.6	2.74	100.0	100.0	8.9	.5	.0	.0	18.23	.78
11077.0	4.8	2.72	100.0	100.0	6.2	1.3	.0	.0	18.15	.78
11078.0	2.8	2.75	100.0	100.0	6.5	.0	.0	.0	18.09	.78
11079.0	.0	2.75	100.0	100.0	7.0	.0	.0	.0	18.03	.78
11080.0	.6	2.76	100.0	100.0	9.9	.0	.0	.0	17.95	.78
11081.0	.0	2.69	93.0	98.6	14.0	.4	1.0	.8	17.84	.78
11082.0	.0	2.70	93.2	98.6	15.2	.9	1.0	.8	17.70	.78
11083.0	.0	2.71	92.0	96.7	16.1	.6	1.3	.8	17.55	.76
11084.0	.0	2.72	94.3	94.3	15.4	1.8	.9	.0	17.39	.75
11085.0	.0	2.71	100.0	100.0	13.2	2.9	.0	.0	17.24	.75
11086.0	3.5	2.72	100.0	100.0	9.5	1.7	.0	.0	17.11	.75
11087.0	.0	2.71	100.0	100.0	10.7	.8	.0	.0	17.02	.75
11088.0	.0	2.70	95.8	95.8	11.1	1.4	.5	.0	16.91	.75
11089.0	.0	2.69	88.5	92.5	12.2	2.2	1.4	.5	16.80	.74
11090.0	.0	2.70	83.8	94.2	13.3	3.6	2.2	1.4	16.67	.72
11091.0	.0	2.69	92.9	98.5	12.6	3.0	.9	.7	16.54	.70
11092.0	.0	2.69	100.0	100.0	12.2	1.2	.0	.0	16.42	.70
11093.0	.0	2.70	100.0	100.0	13.3	.2	.0	.0	16.30	.70
11094.0	.0	2.70	96.7	99.3	15.2	.0	.5	.4	16.16	.70
11095.0	.0	2.70	88.0	97.5	17.7	2.4	2.1	1.7	16.00	.69
11096.0	.0	2.70	95.6	99.1	16.6	2.5	.7	.6	15.83	.67
11097.0	.0	2.70	100.0	100.0	14.3	1.3	.0	.0	15.66	.67
11098.0	5.6	2.72	100.0	100.0	10.4	1.3	.0	.0	15.54	.67
11099.0	.0	2.71	93.7	94.3	12.3	.4	.8	.1	15.43	.67
11100.0	2.8	2.73	96.6	96.6	10.6	2.1	.4	.0	15.31	.66
11101.0	.0	2.72	99.5	99.9	10.2	.1	.0	.0	15.20	.66
11102.0	.0	2.71	91.4	98.2	10.5	.0	.9	.7	15.10	.65
11103.0	.0	2.71	100.0	100.0	8.8	.0	.0	.0	15.00	.65
11104.0	.0	2.70	100.0	100.0	8.6	.0	.0	.0	14.91	.65
11105.0	.0	2.69	88.7	90.6	11.0	1.6	1.2	.2	14.82	.65
11106.0	.0	2.69	87.9	90.7	11.5	1.8	1.4	.3	14.71	.64
11107.0	.0	2.71	94.0	98.8	11.3	.0	.7	.5	14.59	.62
11108.0	.0	2.70	89.2	97.7	12.5	1.2	1.3	1.1	14.48	.61
11109.0	.0	2.71	100.0	100.0	12.7	.8	.0	.0	14.35	.60
11110.0	.0	2.70	100.0	100.0	14.1	1.5	.0	.0	14.22	.60
11111.0	.0	2.69	97.0	99.4	16.3	1.7	.5	.4	14.07	.60
11112.0	1.0	2.71	98.2	99.6	17.0	.0	.3	.2	13.91	.60
11113.0	.0	2.72	96.7	99.3	18.1	.0	.6	.5	13.74	.59

DEPTH FEET	CLAY CONTENT %	AVERAGE MATRIX DENSITY GMS/CC	WATER SATURATIONS			POROSITY		HYDROCARBONS		CUMULATIVE INTEGRATIONS		
			VIRGIN ZONE (%)	INVADED ZONE (%)	TOTAL	SECONDARY	TOTAL	Movable	%	POR-FT	HC-FT	
11114.0	.0	2.70	97.0	99.1	18.0	1.0	.5	.4	13.55	.59		
11115.0	.0	2.71	100.0	100.0	16.8	.2	.0	.0	13.38	.58		
11116.0	.0	2.70	100.0	100.0	16.9	1.6	.0	.0	13.21	.58		
11117.0	.0	2.69	98.4	99.7	15.9	2.0	.3	.2	13.04	.58		
11118.0	.0	2.69	97.4	99.5	16.3	1.6	.4	.3	12.87	.58		
11119.0	.0	2.69	98.7	99.7	14.9	2.3	.2	.2	12.71	.58		
11120.0	.0	2.71	100.0	100.0	12.8	.4	.0	.0	12.57	.57		
11121.0	5.7	2.72	100.0	100.0	8.6	.5	.0	.0	12.45	.57		
11122.0	2.9	2.71	100.0	100.0	9.0	.0	.0	.0	12.37	.57		
11123.0	1.3	2.71	100.0	100.0	9.4	.0	.0	.0	12.27	.57		
11124.0	.0	2.69	100.0	100.0	9.2	1.8	.0	.0	12.18	.57		
11125.0	.0	2.69	91.3	91.3	10.2	3.7	.9	.0	12.09	.57		
11126.0	.0	2.70	96.5	96.5	9.7	1.6	.3	.0	11.99	.57		
11127.0	.0	2.70	95.8	99.2	9.9	.7	.4	.3	11.89	.56		
11128.0	.0	2.70	100.0	100.0	9.6	.0	.0	.0	11.79	.56		
11129.0	.0	2.70	89.4	89.4	11.1	2.5	1.2	.0	11.69	.56		
11130.0	.0	2.72	81.6	89.2	12.0	.1	2.2	.9	11.58	.54		
11131.0	.0	2.71	86.9	97.2	11.5	.6	1.5	1.2	11.46	.52		
11132.0	.0	2.69	100.0	100.0	10.3	2.1	.0	.0	11.35	.51		
11133.0	.0	2.69	100.0	100.0	10.7	2.5	.0	.0	11.25	.51		
11134.0	.0	2.69	99.3	99.3	12.8	2.2	.1	.0	11.13	.51		
11135.0	.0	2.71	100.0	100.0	13.4	.0	.0	.0	11.00	.51		
11136.0	.0	2.70	94.5	98.9	14.9	1.9	.8	.7	10.86	.51		
11137.0	.0	2.69	97.9	99.6	13.9	2.7	.3	.2	10.72	.50		
11138.0	.0	2.69	100.0	100.0	11.8	3.6	.0	.0	10.58	.50		
11139.0	.0	2.70	100.0	100.0	9.7	.0	.0	.0	10.47	.50		
11140.0	.4	2.71	100.0	100.0	9.8	.0	.0	.0	10.37	.50		
11141.0	.0	2.70	100.0	100.0	9.5	1.1	.0	.0	10.28	.50		
11142.0	.0	2.70	100.0	100.0	9.9	.0	.0	.0	10.18	.50		
11143.0	.0	2.71	87.6	87.6	11.6	.1	1.4	.0	10.08	.50		
11144.0	.0	2.71	79.1	79.1	12.7	.9	2.7	.0	9.96	.48		
11145.0	.0	2.71	100.0	100.0	10.1	.6	.0	.0	9.84	.46		
11146.0	3.2	2.73	100.0	100.0	7.9	.5	.0	.0	9.74	.46		
11147.0	1.4	2.72	100.0	100.0	8.4	.9	.0	.0	9.66	.46		
11148.0	.0	2.69	100.0	100.0	9.2	1.4	.0	.0	9.58	.46		
11149.0	.0	2.69	90.5	90.5	11.7	2.6	1.1	.0	9.48	.46		
11150.0	.0	2.69	82.5	82.5	13.0	2.8	2.3	.0	9.36	.44		
11151.0	2.1	2.72	94.0	98.8	11.5	.4	.7	.5	9.23	.42		
11152.0	.0	2.71	91.3	98.2	12.0	.2	1.0	.8	9.12	.42		
11153.0	.0	2.71	85.6	91.8	12.3	.8	1.8	.8	9.00	.40		
11154.0	3.5	2.72	100.0	100.0	10.0	1.5	.0	.0	8.88	.39		
11155.0	.0	2.70	100.0	100.0	10.5	2.5	.0	.0	8.78	.39		
11156.0	.0	2.69	100.0	100.0	10.2	.4	.0	.0	8.67	.39		
11157.0	.0	2.69	94.4	94.4	12.2	1.1	.7	.0	8.57	.39		
11158.0	.0	2.70	87.7	87.7	13.3	2.3	1.6	.0	8.44	.38		
11159.0	.0	2.70	100.0	100.0	11.6	1.5	.0	.0	8.31	.37		
11160.0	.0	2.69	100.0	100.0	11.6	2.5	.0	.0	8.19	.37		
11161.0	.0	2.70	100.0	100.0	11.4	1.2	.0	.0	8.08	.37		

DEPTH FEET	CLAY CONTENT %	AVERAGE MATRIX DENSITY GMS/CC	WATER SATURATIONS		POROSITY		HYDROCARBONS		CUMULATIVE INTEGRATIONS			
			VIRGIN ZONE (%)	INVADED ZONE (%)	TOTAL %	SECONDARY %	TOTAL %	MOVABLE %	X	X	POR-FT	HC-FT
11162.0	2.1	2.72	100.0	100.0	9.7	.2	0.0	0.0	7.97	.37		
11163.0	3.9	2.75	100.0	100.0	8.5	.0	0.0	0.0	7.88	.37		
11164.0	3.0	2.75	100.0	100.0	9.1	.0	0.0	0.0	7.79	.37		
11165.0	.2	2.76	79.9	81.9	12.3	.8	2.5	2.2	7.70	.36		
11166.0	.0	2.74	82.6	82.6	11.9	.8	2.1	0.0	7.57	.34		
11167.0	1.6	2.73	100.0	100.0	9.5	.0	0.0	0.0	7.46	.32		
11168.0	3.6	2.72	95.0	96.5	9.3	.9	0.5	.1	7.36	.32		
11169.0	.4	2.71	95.7	98.2	9.8	.6	0.4	.2	7.27	.31		
11170.0	1.7	2.71	100.0	100.0	9.0	.0	0.0	0.0	7.17	.31		
11171.0	3.7	2.72	90.1	93.1	9.7	1.1	1.0	.3	7.08	.31		
11172.0	.2	2.73	74.5	80.0	12.1	2.0	3.1	.7	6.97	.29		
11173.0	.1	2.74	78.2	78.2	11.8	1.0	2.6	0.0	6.85	.26		
11174.0	2.1	2.75	86.9	86.9	11.0	1.3	1.4	0.0	6.74	.24		
11175.0	.8	2.73	100.0	100.0	10.9	.5	0.0	0.0	6.63	.23		
11176.0	.0	2.72	100.0	100.0	12.7	.0	0.0	0.0	6.52	.23		
11177.0	.0	2.74	99.3	99.3	15.5	.0	1.1	0.0	6.38	.23		
11178.0	.0	2.73	96.5	96.5	18.7	.0	0.7	0.0	6.22	.23		
11179.0	.0	2.71	97.7	97.7	20.6	.0	0.5	0.0	6.02	.22		
11180.0	.0	2.72	100.0	100.0	21.9	.0	0.0	0.0	5.82	.22		
11181.0	.0	2.69	100.0	100.0	22.1	.2	0.0	0.0	5.60	.22		
11182.0	.0	2.71	100.0	100.0	23.3	.0	0.0	0.0	5.37	.22		
11183.0	.0	2.74	100.0	100.0	23.5	.0	0.0	0.0	5.14	.22		
11184.0	.0	2.70	100.0	100.0	23.3	1.9	0.0	0.0	4.91	.22		
11185.0	.0	2.69	99.3	99.9	21.3	2.6	2.2	1.1	4.68	.21		
11186.0	.0	2.69	100.0	100.0	17.4	2.6	0.0	0.0	4.47	.21		
11187.0	1.5	2.71	100.0	100.0	12.5	0.0	0.0	0.0	4.31	.21		
11188.0	.2	2.71	100.0	100.0	12.6	1.2	0.0	0.0	4.19	.21		
11189.0	.0	2.71	90.4	90.4	14.1	.4	1.4	0.0	4.06	.21		
11190.0	.0	2.70	90.7	98.1	14.8	1.9	1.4	1.1	3.92	.19		
11191.0	.0	2.69	98.3	99.7	14.8	1.8	1.3	1.2	3.77	.18		
11192.0	.0	2.69	100.0	100.0	14.7	2.0	0.0	0.0	3.62	.18		
11193.0	.0	2.69	100.0	100.0	14.5	2.0	0.0	0.0	3.48	.18		
11194.0	.0	2.69	100.0	100.0	14.7	2.9	0.0	0.0	3.33	.18		
11195.0	.0	2.69	97.9	97.9	15.6	3.0	3.0	0.0	3.18	.18		
11196.0	1.7	2.72	97.2	99.4	14.6	1.4	0.4	.3	3.03	.18		
11197.0	.0	2.70	97.3	99.5	14.0	2.4	2.4	3.3	2.88	.17		
11198.0	.0	2.71	98.5	99.7	12.6	1.8	0.2	.1	2.74	.17		
11199.0	.3	2.71	100.0	100.0	11.0	1.3	0.0	0.0	2.62	.17		
11200.0	.0	2.71	87.6	87.6	12.5	2.2	1.6	0.0	2.51	.17		
11201.0	.0	2.70	87.9	87.9	12.7	2.7	1.5	0.0	2.38	.15		
11202.0	.0	2.71	87.1	87.1	13.2	1.7	1.7	0.0	2.25	.13		
11203.0	.0	2.72	84.1	84.1	13.6	2.0	2.2	0.0	2.12	.11		
11204.0	.3	2.72	90.1	90.1	12.7	1.4	1.3	0.0	1.99	.09		
11205.0	.0	2.73	89.7	89.7	12.6	1.2	1.3	0.0	1.86	.08		
11206.0	.7	2.75	90.8	90.8	12.2	1.4	1.1	0.0	1.74	.07		
11207.0	1.4	2.73	97.4	97.4	11.9	1.7	1.3	0.0	1.62	.06		
11208.0	.0	2.70	94.0	94.0	13.0	2.4	.8	0.0	1.49	.06		
11209.0	.0	2.73	90.8	90.8	13.8	1.4	1.3	0.0	1.36	.05		

DEPTH FEET	CLAY CONTENT %	AVERAGE MATRIX DENSITY GMS/CC	WATER SATURATIONS		POROSITY		HYDROCARBONS		CUMULATIVE INTEGRATIONS		
			VIRGIN ZONE (%)	INVADED ZONE (%)	TOTAL %	SECONDARY %	TOTAL %	Movable %	PER-FT	HC-FT	
11210.0	.0	2.72	86.3	88.0	14.9	2.1	2.0	.3	1.22	.03	
11211.0	.0	2.71	95.6	96.4	14.2	1.3	1.6	.1	1.07	.02	
11212.0	.0	2.73	100.0	100.0	13.0	.0	.0	.0	.93	.01	
11213.0	.0	2.71	100.0	100.0	13.6	.3	.0	.0	.80	.01	
11214.0	.0	2.70	92.9	98.5	14.3	2.0	1.0	.8	.66	.01	
11215.0	.0	2.71	100.0	100.0	12.9	.3	.0	.0	.52	.00	
11216.0	.0	2.75	100.0	100.0	11.9	.0	.0	.0	.40	.00	
11217.0	2.1	2.73	100.0	100.0	11.1	1.2	.0	.0	.28	.00	
11218.0	.0	2.70	100.0	100.0	11.3	1.2	.0	.0	.17	.00	
11219.0	.3	2.73	99.9	99.9	11.1	.3	.0	.0	.06	.00	

