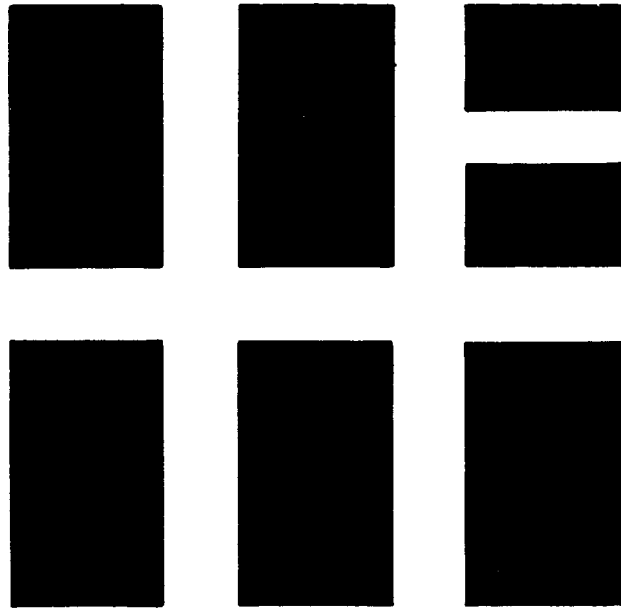


Schlumberger Synergetic Log Systems



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.

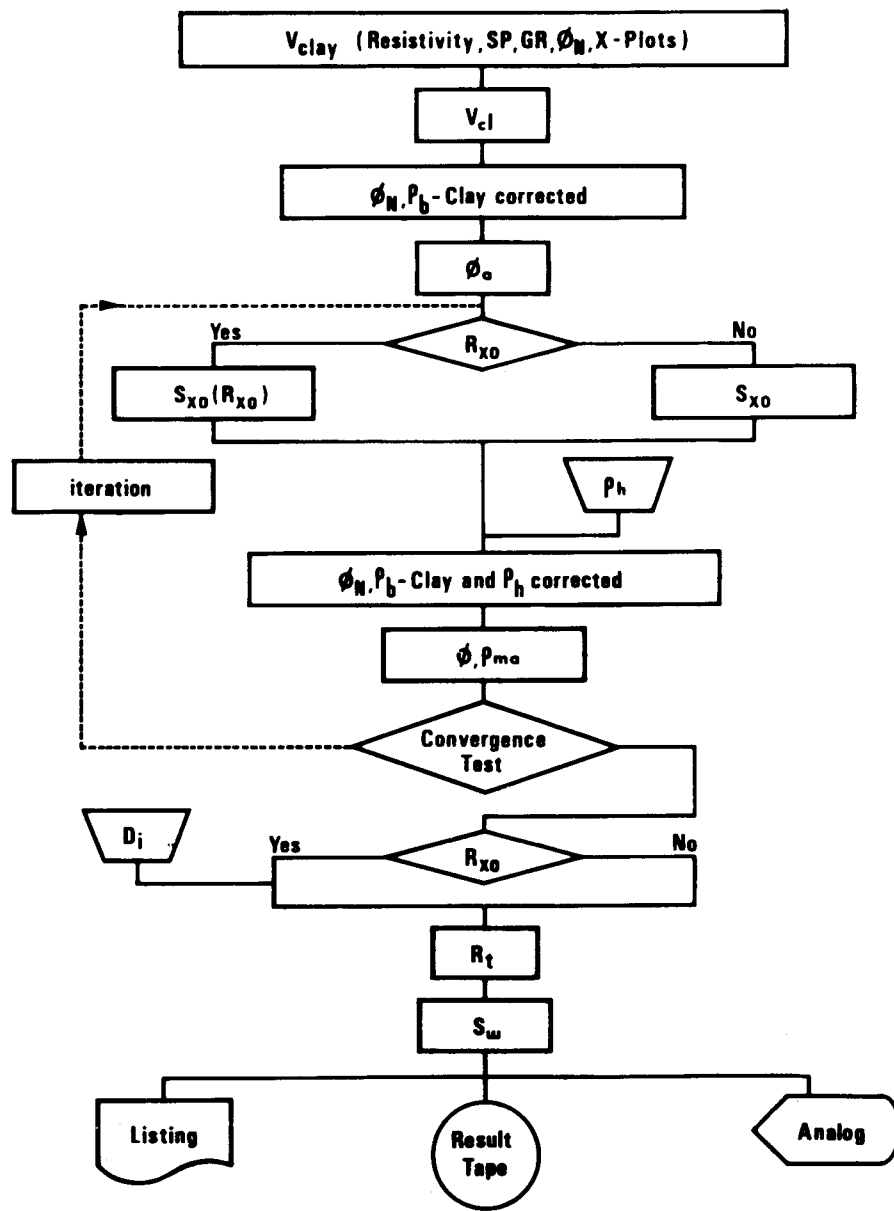
Results are presented on a film coded for easy identification. A computer listing, providing a complete tabulation of reservoir parameters is also supplied. In addition, the raw log data, the normalized data and the computed results, are available in digital form on magnetic tape in a format compatible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

Lowest value of V_{clay} from various indicators is taken as final value.

This clay corrected value of porosity is used to calculate a first value of S_w and S_{xo} . ρ_h is then determined and used with S_{xo} to compute the hydrocarbon effect on the neutron and density.

The new value of porosity thus obtained is used to get a better value of S_{xo} , and the hydrocarbon effect is recomputed.

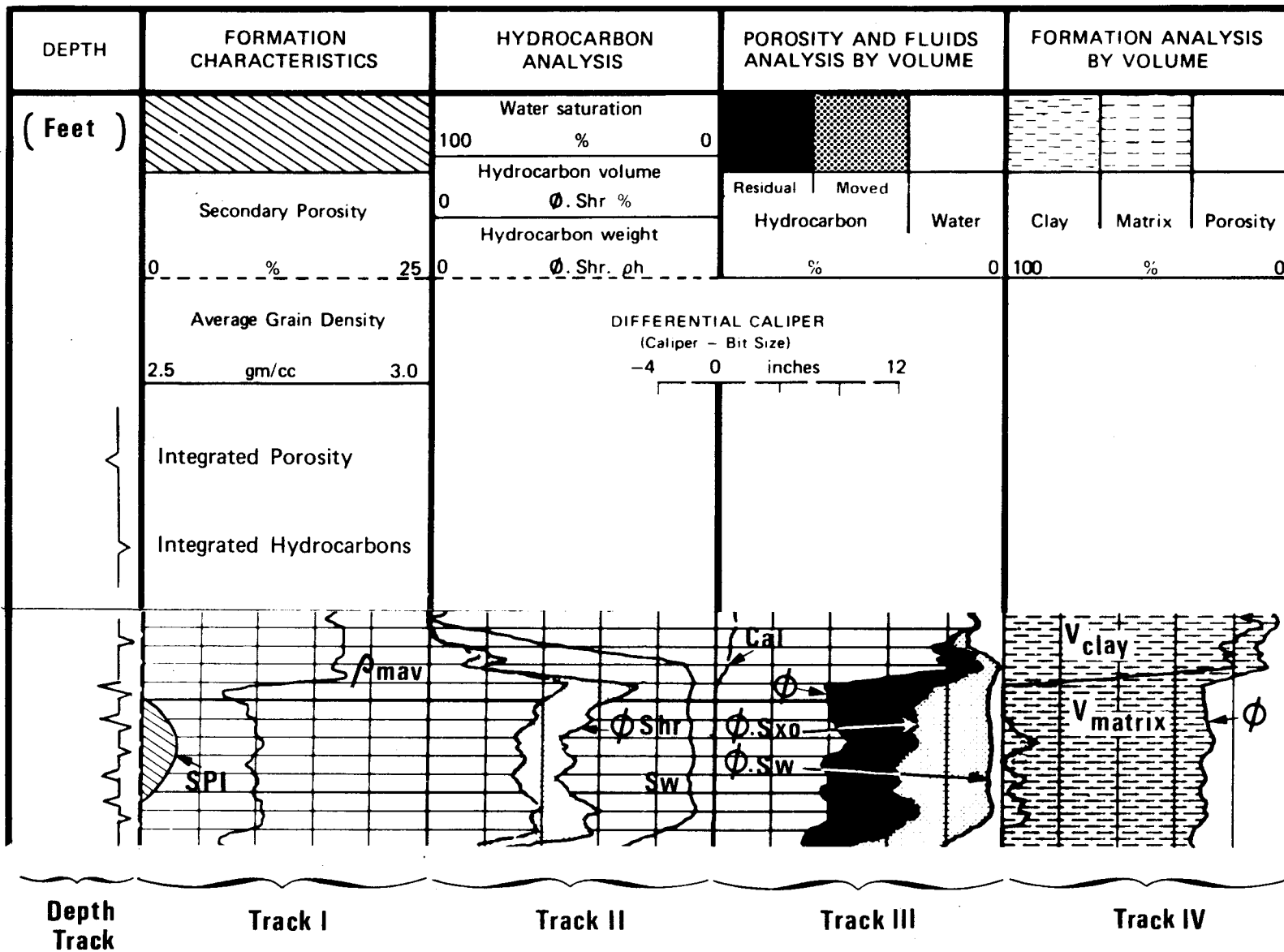
This iteration process continues until the new porosity differs from the previous value by less than 1 p.u.

Final computation of S_w using porosity corrected for clay and hydrocarbons, R_t corrected for invasion and V_{clay} .

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 $.2 \text{ m}^3/\text{m}^2$.

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.

This information, available on the listing, is displayed only if \emptyset .Shr and \emptyset .Shr.ph are not shown.

Formation Characteristics – Track I.

- SPI – Secondary Porosity Index. ($\text{SPI} = \emptyset_{\text{ND}} - \emptyset_{\text{S}}$). 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.

Hydrocarbon Analysis – Track II.

- S_{w} – Water saturation in the uncontaminated zone.
- \emptyset .Shr – Hydrocarbon volume \emptyset ($1 - S_{\text{XO}}$) in the invaded zone.
- \emptyset .Shr.ph – Hydrocarbon weight per unit volume in the invaded zone.

Porosity Analysis – Track III.

- \emptyset – Formation porosity corrected for hydrocarbon and clay effect.
- \emptyset . S_{XO} – Water filled porosity in the invaded zone. (plotted only when microresistivity log available).
- \emptyset . S_{W} – Water filled porosity in the uncontaminated zone.
- The area between \emptyset . S_{XO} and \emptyset . S_{W} represents the moveable hydrocarbon.
- The area between \emptyset and \emptyset . S_{W} 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-FT | 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 | 69.9 | 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 or 9 track, EBCDIC, 800 or 1600 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.

* *

* SCHLUMBERGER *

COMPUTER PROCESSED INTERPRETATION

| | |
|-----------|----------------------------|
| COMPANY | PHILLIPS PETROLEUM COMPANY |
| COUNTRY | NORWAY |
| FIELD | EKOFISK |
| WELL | 2/4-3X |
| REFERENCE | CPI-113,12307 |
| LOGGED | 03 JULY 1970 |

VSH GREATER THAN 70 PERCENT NOT LISTED

| DEPTH FEET | CLAY CONTENT % | AVERAGE MATRIX DENSITY GMS/CC | WATER SATURATIONS | | POROSITY | | HYDROCARBONS | | CUMULATIVE INTEGRATIONS | |
|---------------|----------------------|-------------------------------------|--------------------|-----------------|------------|----------------|--------------|--------------|----------------------------|-------|
| | | | VIRGIN ZONE (%) | INVADED ZONE | TOTAL % | SECONDARY % | TOTAL % | MCVABLE % | POP-FT | HC-FT |
| 10169.0 | 67.9 | 2.83 | 100.0 | 100.0 | 6.1 | 0.0 | 0.0 | 0.0 | 194.11 | 61.54 |
| 10171.0 | 68.0 | 2.80 | 100.0 | 100.0 | 9.0 | 0.0 | 0.0 | 0.0 | 194.00 | 61.54 |
| 10177.0 | 66.8 | 2.84 | 88.9 | 98.8 | 14.9 | 0.0 | 1.7 | 1.5 | 193.54 | 61.53 |
| 10181.0 | 68.5 | 2.84 | 96.9 | 99.6 | 14.2 | 0.0 | 0.4 | 0.4 | 193.02 | 61.51 |
| 10184.0 | 64.9 | 2.81 | 87.4 | 97.9 | 12.9 | 0.0 | 1.6 | 1.4 | 192.71 | 61.49 |
| 10185.0 | 65.7 | 2.80 | 100.0 | 100.0 | 5.5 | 0.0 | 0.0 | 0.0 | 192.63 | 61.48 |
| 10186.0 | 67.4 | 2.81 | 98.9 | 99.9 | 6.5 | 0.0 | 0.1 | 0.1 | 192.58 | 61.48 |
| 10187.0 | 64.4 | 2.83 | 97.8 | 99.9 | 8.2 | 0.0 | 0.2 | 0.2 | 192.52 | 61.48 |
| 10188.0 | 61.9 | 2.81 | 100.0 | 100.0 | 7.0 | 0.0 | 0.0 | 0.0 | 192.43 | 61.48 |
| 10189.0 | 61.9 | 2.79 | 100.0 | 100.0 | 3.0 | 0.0 | 0.0 | 0.0 | 192.35 | 61.48 |
| 10191.0 | 62.7 | 2.79 | 100.0 | 100.0 | 2.1 | 0.0 | 0.0 | 0.0 | 192.33 | 61.48 |
| 10192.0 | 66.0 | 2.79 | 100.0 | 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 192.31 | 61.48 |
| 10193.0 | 60.1 | 2.79 | 100.0 | 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 192.31 | 61.48 |
| 10194.0 | 61.5 | 2.79 | 100.0 | 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 192.31 | 61.48 |
| 10195.0 | 59.8 | 2.78 | 100.0 | 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 192.31 | 61.48 |
| 10196.0 | 58.1 | 2.79 | 100.0 | 100.0 | 2.5 | 0.0 | 0.0 | 0.0 | 192.31 | 61.48 |
| 10197.0 | 54.1 | 2.78 | 100.0 | 100.0 | 4.0 | 0.0 | 0.0 | 0.0 | 192.28 | 61.48 |
| 10198.0 | 57.0 | 2.80 | 100.0 | 100.0 | 4.4 | 0.0 | 0.0 | 0.0 | 192.23 | 61.48 |
| 10199.0 | 61.7 | 2.81 | 100.0 | 100.0 | 3.3 | 0.0 | 0.0 | 0.0 | 192.19 | 61.48 |
| 10200.0 | 62.5 | 2.83 | 100.0 | 100.0 | 3.8 | 0.0 | 0.0 | 0.0 | 192.16 | 61.48 |
| 10201.0 | 61.5 | 2.83 | 100.0 | 100.0 | 6.3 | 0.0 | 0.0 | 0.0 | 192.11 | 61.48 |
| 10202.0 | 60.0 | 2.83 | 100.0 | 100.0 | 8.2 | 0.0 | 0.0 | 0.0 | 192.04 | 61.48 |
| 10203.0 | 65.4 | 2.83 | 100.0 | 100.0 | 3.9 | 0.0 | 0.0 | 0.0 | 191.97 | 61.48 |
| 10204.0 | 62.2 | 2.79 | 100.0 | 100.0 | 1.0 | 0.0 | 0.0 | 0.0 | 191.94 | 61.48 |
| 10205.0 | 54.4 | 2.79 | 100.0 | 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 191.94 | 61.48 |
| 10206.0 | 64.8 | 2.79 | 100.0 | 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 191.94 | 61.48 |
| 10207.0 | 69.3 | 2.79 | 100.0 | 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 191.94 | 61.48 |
| 10208.0 | 67.6 | 2.79 | 100.0 | 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 191.94 | 61.48 |
| 10209.0 | 67.6 | 2.79 | 100.0 | 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 191.94 | 61.48 |
| 10210.0 | 61.2 | 2.78 | 100.0 | 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 191.94 | 61.48 |
| 10211.0 | 50.6 | 2.77 | 100.0 | 100.0 | 4.1 | 0.0 | 0.0 | 0.0 | 191.91 | 61.48 |
| 10212.0 | 43.5 | 2.76 | 100.0 | 100.0 | 4.1 | 0.0 | 0.0 | 0.0 | 191.87 | 61.48 |
| 10213.0 | 48.6 | 2.78 | 100.0 | 100.0 | 2.5 | 0.0 | 0.0 | 0.0 | 191.83 | 61.48 |
| 10214.0 | 41.0 | 2.76 | 100.0 | 100.0 | 5.1 | 0.0 | 0.0 | 0.0 | 191.80 | 61.48 |
| 10215.0 | 38.6 | 2.75 | 100.0 | 100.0 | 5.6 | 0.0 | 0.0 | 0.0 | 191.75 | 61.48 |
| 10216.0 | 46.6 | 2.77 | 100.0 | 100.0 | 4.1 | 0.0 | 0.0 | 0.0 | 191.70 | 61.48 |
| 10217.0 | 42.4 | 2.76 | 100.0 | 100.0 | 5.3 | 0.0 | 0.0 | 0.0 | 191.66 | 61.48 |
| 10218.0 | 39.6 | 2.76 | 100.0 | 100.0 | 5.2 | 0.0 | 0.0 | 0.0 | 191.60 | 61.48 |
| 10219.0 | 47.7 | 2.77 | 100.0 | 100.0 | 4.2 | 0.0 | 0.0 | 0.0 | 191.55 | 61.48 |
| 10220.0 | 51.7 | 2.78 | 100.0 | 100.0 | 3.6 | 0.0 | 0.0 | 0.0 | 191.51 | 61.48 |
| 10221.0 | 53.4 | 2.78 | 100.0 | 100.0 | 3.4 | 0.0 | 0.0 | 0.0 | 191.47 | 61.48 |
| 10222.0 | 45.4 | 2.77 | 100.0 | 100.0 | 4.0 | 0.0 | 0.0 | 0.0 | 191.44 | 61.48 |

| DEPTH FEET | CLAY CONTENT % | AVERAGE MATRIX DENSITY GMS/CC | WATER SATURATIONS | | POROSITY | | HYDROCARBONS | | CUMULATIVE INTEGRATIONS | |
|---------------|----------------------|-------------------------------------|--------------------|-----------------|------------|----------------|--------------|--------------|----------------------------|-------|
| | | | VIRGIN ZONE (%) | INVADED ZONE | TOTAL % | SECONDARY % | TOTAL % | MCVABLE % | POP-FI | HC-FI |
| 10223.0 | 41.5 | 2.76 | 100.0 | 100.0 | 5.9 | 0.0 | 0.0 | 0.0 | 191.39 | 61.48 |
| 10224.0 | 40.6 | 2.76 | 100.0 | 100.0 | 7.6 | 0.0 | 0.0 | 0.0 | 191.33 | 61.48 |
| 10225.0 | 36.3 | 2.76 | 100.0 | 100.0 | 8.1 | 0.0 | 0.0 | 0.0 | 191.25 | 61.48 |
| 10226.0 | 36.9 | 2.75 | 100.0 | 100.0 | 6.4 | 0.0 | 0.0 | 0.0 | 191.17 | 61.48 |
| 10227.0 | 36.5 | 2.75 | 100.0 | 100.0 | 5.6 | 0.0 | 0.0 | 0.0 | 191.11 | 61.48 |
| 10228.0 | 30.9 | 2.74 | 100.0 | 100.0 | 6.5 | 0.0 | 0.0 | 0.0 | 191.04 | 61.48 |
| 10229.0 | 26.7 | 2.74 | 100.0 | 100.0 | 7.8 | 0.0 | 0.0 | 0.0 | 190.97 | 61.48 |
| 10230.0 | 32.6 | 2.75 | 100.0 | 100.0 | 5.8 | 0.0 | 0.0 | 0.0 | 190.90 | 61.48 |
| 10231.0 | 26.3 | 2.74 | 100.0 | 100.0 | 7.8 | 0.0 | 0.0 | 0.0 | 190.83 | 61.48 |
| 10232.0 | 29.3 | 2.74 | 100.0 | 100.0 | 6.4 | 0.0 | 0.0 | 0.0 | 190.76 | 61.48 |
| 10233.0 | 31.5 | 2.75 | 100.0 | 100.0 | 6.4 | 0.0 | 0.0 | 0.0 | 190.70 | 61.48 |
| 10234.0 | 27.9 | 2.74 | 100.0 | 100.0 | 7.5 | 0.0 | 0.0 | 0.0 | 190.64 | 61.48 |
| 10235.0 | 31.3 | 2.74 | 100.0 | 100.0 | 6.4 | 0.0 | 0.0 | 0.0 | 190.56 | 61.48 |
| 10236.0 | 31.7 | 2.75 | 100.0 | 100.0 | 7.0 | 0.0 | 0.0 | 0.0 | 190.50 | 61.48 |
| 10237.0 | 27.9 | 2.75 | 99.9 | 100.0 | 10.1 | 0.0 | 0.0 | 0.0 | 190.42 | 61.48 |
| 10238.0 | 29.5 | 2.74 | 100.0 | 100.0 | 8.5 | 0.0 | 0.0 | 0.0 | 190.32 | 61.48 |
| 10239.0 | 20.4 | 2.74 | 100.0 | 100.0 | 12.5 | 0.0 | 0.0 | 0.0 | 190.23 | 61.48 |
| 10240.0 | 20.8 | 2.74 | 100.0 | 100.0 | 10.5 | 0.0 | 0.0 | 0.0 | 190.10 | 61.48 |
| 10241.0 | 25.4 | 2.74 | 100.0 | 100.0 | 7.2 | 0.0 | 0.0 | 0.0 | 190.01 | 61.48 |
| 10242.0 | 23.8 | 2.75 | 100.0 | 100.0 | 8.7 | 0.0 | 0.0 | 0.0 | 189.93 | 61.48 |
| 10243.0 | 15.3 | 2.73 | 100.0 | 100.0 | 12.5 | 0.0 | 0.0 | 0.0 | 189.84 | 61.48 |
| 10244.0 | 21.5 | 2.75 | 96.5 | 99.5 | 13.1 | 0.0 | 0.5 | 0.4 | 189.71 | 61.48 |
| 10245.0 | 18.3 | 2.76 | 64.5 | 83.6 | 18.7 | 0.0 | 6.6 | 3.6 | 189.57 | 61.46 |
| 10246.0 | 9.8 | 2.72 | 57.7 | 76.1 | 21.6 | 0.0 | 9.2 | 4.0 | 189.37 | 61.39 |
| 10247.0 | 12.8 | 2.72 | 59.1 | 77.5 | 19.2 | 0.0 | 7.8 | 3.5 | 189.16 | 61.30 |
| 10248.0 | 13.7 | 2.72 | 60.5 | 79.0 | 18.3 | 0.0 | 7.2 | 3.4 | 188.97 | 61.22 |
| 10249.0 | 9.5 | 2.73 | 60.1 | 78.5 | 20.2 | 0.0 | 8.1 | 3.7 | 188.78 | 61.15 |
| 10250.0 | 8.3 | 2.77 | 60.0 | 78.4 | 21.9 | 0.0 | 8.8 | 4.0 | 188.57 | 61.06 |
| 10251.0 | 7.0 | 2.76 | 59.3 | 77.7 | 23.4 | 0.0 | 9.5 | 4.3 | 188.35 | 60.97 |
| 10252.0 | 7.7 | 2.77 | 63.3 | 82.2 | 22.1 | 0.0 | 8.1 | 4.2 | 188.12 | 60.88 |
| 10253.0 | 9.9 | 2.75 | 72.1 | 91.6 | 18.9 | 0.0 | 5.3 | 3.7 | 187.90 | 60.81 |
| 10254.0 | 12.1 | 2.74 | 74.6 | 93.7 | 17.8 | 0.0 | 4.5 | 3.4 | 187.72 | 60.76 |
| 10255.0 | 12.6 | 2.73 | 76.1 | 94.7 | 17.4 | 0.0 | 4.2 | 3.2 | 187.54 | 60.71 |
| 10256.0 | 11.6 | 2.73 | 83.4 | 97.0 | 16.6 | 0.0 | 2.8 | 2.3 | 187.37 | 60.67 |
| 10257.0 | 8.9 | 2.73 | 71.2 | 90.8 | 19.5 | 0.0 | 5.6 | 3.8 | 187.20 | 60.64 |
| 10258.0 | 1.3 | 2.71 | 61.9 | 80.5 | 24.6 | 0.0 | 9.4 | 4.6 | 186.99 | 60.58 |
| 10259.0 | 7.3 | 2.74 | 59.8 | 78.2 | 23.8 | 0.0 | 9.5 | 4.4 | 186.75 | 60.48 |
| 10260.0 | 7.4 | 2.73 | 63.8 | 82.8 | 21.3 | 0.0 | 7.7 | 4.0 | 186.52 | 60.39 |
| 10261.0 | 7.6 | 2.74 | 61.5 | 80.1 | 21.1 | 0.0 | 8.1 | 3.9 | 186.31 | 60.31 |
| 10262.0 | 14.1 | 2.72 | 53.1 | 72.9 | 22.5 | 0.0 | 10.5 | 4.4 | 186.10 | 60.23 |
| 10263.0 | 8.1 | 2.73 | 46.9 | 68.5 | 26.0 | 0.0 | 13.8 | 5.6 | 185.86 | 60.11 |
| 10264.0 | 5.6 | 2.72 | 42.5 | 65.2 | 27.6 | 0.0 | 15.9 | 6.3 | 185.60 | 59.97 |
| 10265.0 | 7.4 | 2.73 | 39.3 | 62.7 | 27.4 | 0.0 | 16.6 | 6.4 | 185.32 | 59.81 |
| 10266.0 | 1.5 | 2.71 | 35.1 | 59.3 | 30.3 | 0.0 | 19.7 | 7.3 | 185.04 | 59.63 |
| 10267.0 | 0.0 | 2.69 | 32.4 | 56.9 | 31.1 | 0.0 | 21.1 | 7.6 | 184.73 | 59.43 |
| 10268.0 | 0.0 | 2.69 | 29.7 | 54.5 | 32.2 | 0.0 | 22.6 | 8.0 | 184.42 | 59.22 |
| 10269.0 | 3.9 | 2.71 | 26.9 | 51.9 | 33.4 | 0.0 | 24.4 | 8.3 | 184.09 | 58.99 |
| 10270.0 | 5.5 | 2.71 | 29.2 | 54.1 | 31.3 | 0.0 | 22.1 | 7.8 | 183.76 | 58.75 |

| DEPTH FEET | CLAY CONTENT % | AVERAGE MATRIX DENSITY GMS/CC | WATER SATURATIONS | | POROSITY | | HYDROCARBONS | | CUMULATIVE INTEGRATIONS | |
|---------------|----------------------|-------------------------------------|--------------------|-----------------|------------|----------------|--------------|--------------|----------------------------|-------|
| | | | VIRGIN ZONE (%) | INVADED ZONE | TOTAL % | SECONDARY % | TOTAL % | MOVABLE % | FOR-FT | HC-FT |
| 10271.0 | 0.0 | 2.70 | 31.0 | 55.6 | 30.9 | 0.0 | 21.3 | 7.6 | 183.45 | 58.53 |
| 10272.0 | 3.5 | 2.72 | 30.5 | 55.3 | 30.8 | 0.0 | 21.4 | 7.6 | 183.14 | 58.32 |
| 10273.0 | 3.6 | 2.73 | 32.5 | 57.0 | 30.5 | 0.0 | 20.6 | 7.5 | 182.83 | 58.10 |
| 10274.0 | 3.5 | 2.74 | 35.0 | 59.2 | 29.8 | 0.0 | 19.3 | 7.2 | 182.53 | 57.90 |
| 10275.0 | 5.3 | 2.74 | 36.8 | 60.7 | 28.8 | 0.0 | 18.2 | 6.9 | 182.24 | 57.71 |
| 10276.0 | 6.5 | 2.76 | 37.5 | 61.3 | 28.1 | 0.0 | 17.6 | 6.7 | 181.95 | 57.53 |
| 10277.0 | 4.5 | 2.76 | 37.9 | 61.6 | 28.1 | 0.0 | 17.5 | 6.7 | 181.67 | 57.36 |
| 10278.0 | 4.9 | 2.76 | 37.1 | 60.9 | 27.4 | 0.0 | 17.2 | 6.5 | 181.39 | 57.18 |
| 10279.0 | 3.9 | 2.76 | 34.3 | 58.5 | 28.7 | 0.0 | 18.9 | 7.0 | 181.11 | 57.00 |
| 10280.0 | 3.1 | 2.73 | 33.7 | 58.1 | 28.4 | 0.0 | 18.8 | 6.9 | 180.83 | 56.82 |
| 10281.0 | 3.4 | 2.76 | 30.9 | 55.6 | 29.6 | 0.0 | 20.4 | 7.3 | 180.54 | 56.63 |
| 10282.0 | 1.5 | 2.76 | 30.9 | 55.6 | 30.3 | 0.0 | 20.9 | 7.5 | 180.24 | 56.42 |
| 10283.0 | 3.3 | 2.76 | 35.6 | 59.6 | 27.8 | 0.0 | 17.9 | 6.7 | 179.95 | 56.22 |
| 10284.0 | 0.0 | 2.70 | 43.2 | 65.8 | 24.5 | 0.0 | 13.9 | 5.5 | 179.68 | 56.05 |
| 10285.0 | 0.0 | 2.70 | 47.6 | 69.0 | 24.1 | 0.0 | 12.6 | 5.2 | 179.44 | 55.92 |
| 10286.0 | 0.2 | 2.71 | 51.1 | 71.5 | 23.9 | 0.0 | 11.7 | 4.9 | 179.21 | 55.80 |
| 10287.0 | 3.2 | 2.71 | 47.0 | 68.5 | 25.9 | 0.0 | 13.8 | 5.6 | 178.96 | 55.68 |
| 10288.0 | 3.2 | 2.71 | 48.1 | 69.4 | 25.8 | 0.0 | 13.4 | 5.5 | 178.69 | 55.53 |
| 10289.0 | 4.9 | 2.72 | 50.7 | 71.2 | 23.3 | 0.0 | 11.5 | 4.8 | 178.44 | 55.40 |
| 10290.0 | 7.6 | 2.71 | 42.2 | 64.9 | 25.4 | 0.0 | 14.7 | 5.8 | 178.20 | 55.28 |
| 10291.0 | 5.5 | 2.78 | 33.7 | 58.0 | 31.5 | 0.0 | 20.9 | 7.7 | 177.93 | 55.12 |
| 10292.0 | 4.2 | 2.77 | 35.4 | 59.5 | 30.9 | 0.0 | 19.9 | 7.4 | 177.62 | 54.91 |
| 10293.0 | 5.0 | 2.75 | 37.0 | 60.9 | 30.1 | 0.0 | 19.0 | 7.2 | 177.31 | 54.71 |
| 10294.0 | 4.1 | 2.75 | 37.9 | 61.6 | 30.5 | 0.0 | 18.9 | 7.2 | 177.01 | 54.52 |
| 10295.0 | 2.5 | 2.74 | 38.9 | 62.4 | 30.9 | 0.0 | 18.9 | 7.3 | 176.71 | 54.34 |
| 10296.0 | 1.0 | 2.76 | 36.5 | 60.4 | 32.8 | 0.0 | 20.8 | 7.8 | 176.39 | 54.14 |
| 10297.0 | 3.6 | 2.77 | 35.7 | 59.7 | 33.2 | 0.0 | 21.3 | 8.0 | 176.06 | 53.93 |
| 10298.0 | 7.4 | 2.79 | 35.6 | 59.6 | 32.9 | 0.0 | 21.2 | 7.9 | 175.73 | 53.72 |
| 10299.0 | 9.0 | 2.73 | 41.1 | 64.1 | 28.5 | 0.0 | 16.8 | 6.5 | 175.41 | 53.52 |
| 10300.0 | 4.0 | 2.76 | 40.4 | 63.6 | 31.2 | 0.0 | 18.6 | 7.2 | 175.12 | 53.35 |
| 10301.0 | 2.3 | 2.78 | 41.0 | 64.0 | 32.2 | 0.0 | 19.0 | 7.4 | 174.80 | 53.16 |
| 10302.0 | 5.2 | 2.78 | 45.1 | 67.2 | 29.8 | 0.0 | 16.4 | 6.6 | 174.49 | 52.97 |
| 10303.0 | 4.4 | 2.71 | 47.1 | 68.6 | 29.0 | 0.0 | 15.3 | 6.2 | 174.19 | 52.81 |
| 10304.0 | 8.1 | 2.72 | 48.8 | 69.9 | 27.0 | 0.0 | 13.8 | 5.7 | 173.90 | 52.66 |
| 10305.0 | 7.3 | 2.71 | 48.9 | 69.9 | 26.9 | 0.0 | 13.8 | 5.7 | 173.63 | 52.52 |
| 10306.0 | 0.0 | 2.69 | 52.0 | 72.1 | 27.1 | 0.0 | 13.0 | 5.5 | 173.36 | 52.39 |
| 10307.0 | 1.6 | 2.71 | 50.0 | 70.7 | 27.9 | 0.0 | 14.0 | 5.8 | 173.09 | 52.25 |
| 10308.0 | 4.4 | 2.73 | 51.2 | 71.6 | 27.4 | 0.0 | 13.4 | 5.6 | 172.81 | 52.12 |
| 10309.0 | 4.9 | 2.74 | 55.9 | 74.7 | 25.6 | 0.0 | 11.3 | 4.8 | 172.54 | 51.99 |
| 10310.0 | 0.0 | 2.70 | 57.9 | 76.3 | 25.8 | 0.0 | 10.8 | 4.7 | 172.29 | 51.88 |
| 10311.0 | 0.9 | 2.71 | 49.6 | 70.4 | 28.3 | 0.0 | 14.3 | 5.9 | 172.02 | 51.76 |
| 10312.0 | 0.6 | 2.72 | 42.7 | 65.4 | 29.8 | 0.0 | 17.1 | 6.7 | 171.74 | 51.61 |
| 10313.0 | 0.2 | 2.70 | 40.5 | 63.6 | 28.0 | 0.0 | 16.6 | 6.5 | 171.44 | 51.44 |
| 10314.0 | 0.0 | 2.70 | 33.9 | 58.2 | 27.5 | 0.0 | 18.2 | 6.7 | 171.17 | 51.28 |
| 10315.0 | 2.6 | 2.74 | 21.3 | 46.2 | 32.2 | 0.0 | 25.4 | 8.0 | 170.89 | 51.08 |
| 10316.0 | 2.7 | 2.72 | 19.0 | 43.5 | 32.4 | 0.0 | 26.2 | 7.9 | 170.56 | 50.82 |
| 10317.0 | 0.0 | 2.70 | 19.0 | 43.5 | 32.7 | 0.0 | 26.5 | 8.0 | 170.23 | 50.56 |
| 10318.0 | 0.3 | 2.70 | 21.2 | 46.0 | 31.6 | 0.0 | 24.9 | 7.8 | 169.91 | 50.30 |

| DEPTH FEET | CLAY CONTENT % | AVERAGE MATRIX DENSITY GMS/CC | WATER SATURATIONS | | POROSITY | | HYDROCARBONS | | CUMULATIVE INTEGRATIONS | |
|---------------|----------------------|-------------------------------------|--------------------|-----------------|------------|----------------|--------------|--------------|----------------------------|-------|
| | | | VIRGIN ZONE (%) | INVADED ZONE | TOTAL % | SECONDARY % | TOTAL % | MOVABLE % | FOR-FT | HC-FT |
| 10319.0 | 1.7 | 2.72 | 25.5 | 50.5 | 30.9 | 0.0 | 23.0 | 7.7 | 169.60 | 50.06 |
| 10320.0 | 0.1 | 2.77 | 25.0 | 50.0 | 34.2 | 0.0 | 25.6 | 8.5 | 169.28 | 49.82 |
| 10321.0 | 0.0 | 2.73 | 24.6 | 49.6 | 34.3 | 0.0 | 25.9 | 8.6 | 168.94 | 49.56 |
| 10322.0 | 0.8 | 2.74 | 24.0 | 49.0 | 33.5 | 0.0 | 25.4 | 8.4 | 168.60 | 49.31 |
| 10323.0 | 4.0 | 2.71 | 22.8 | 47.7 | 31.3 | 0.0 | 24.2 | 7.8 | 168.27 | 49.06 |
| 10324.0 | 4.7 | 2.78 | 20.0 | 44.7 | 34.8 | 0.0 | 27.8 | 8.6 | 167.96 | 48.81 |
| 10325.0 | 4.4 | 2.77 | 20.7 | 45.5 | 34.2 | 0.0 | 27.1 | 8.5 | 167.61 | 48.53 |
| 10326.0 | 4.2 | 2.76 | 20.1 | 44.9 | 34.4 | 0.0 | 27.5 | 8.5 | 167.26 | 48.26 |
| 10327.0 | 3.5 | 2.77 | 19.4 | 44.0 | 35.8 | 0.0 | 28.8 | 8.8 | 166.91 | 47.98 |
| 10328.0 | 2.2 | 2.77 | 19.7 | 44.4 | 35.6 | 0.0 | 28.6 | 8.8 | 166.55 | 47.69 |
| 10329.0 | 1.8 | 2.75 | 20.3 | 45.1 | 34.2 | 0.0 | 27.2 | 8.5 | 166.20 | 47.40 |
| 10330.0 | 5.8 | 2.71 | 21.6 | 46.5 | 31.2 | 0.0 | 24.4 | 7.8 | 165.87 | 47.14 |
| 10331.0 | 0.7 | 2.70 | 22.4 | 47.3 | 32.5 | 0.0 | 25.2 | 8.1 | 165.55 | 46.89 |
| 10332.0 | 2.8 | 2.74 | 23.2 | 48.1 | 33.3 | 0.0 | 25.6 | 8.3 | 165.22 | 46.64 |
| 10333.0 | 2.8 | 2.77 | 22.7 | 47.6 | 34.9 | 0.0 | 27.0 | 8.7 | 164.88 | 46.38 |
| 10334.0 | 2.8 | 2.75 | 25.0 | 50.0 | 32.8 | 0.0 | 24.6 | 8.2 | 164.54 | 46.11 |
| 10335.0 | 4.1 | 2.72 | 30.6 | 55.3 | 28.8 | 0.0 | 20.0 | 7.1 | 164.22 | 45.88 |
| 10336.0 | 5.6 | 2.71 | 35.0 | 59.2 | 25.5 | 0.7 | 16.5 | 6.1 | 163.93 | 45.68 |
| 10337.0 | 0.0 | 2.70 | 36.7 | 60.6 | 25.7 | 0.0 | 16.3 | 6.1 | 163.68 | 45.52 |
| 10338.0 | 8.7 | 2.72 | 38.7 | 62.2 | 23.2 | 0.0 | 14.2 | 5.5 | 163.43 | 45.36 |
| 10339.0 | 6.4 | 2.73 | 39.1 | 62.6 | 23.8 | 0.8 | 14.5 | 5.6 | 163.20 | 45.22 |
| 10340.0 | 3.6 | 2.72 | 39.9 | 63.2 | 23.7 | 0.0 | 14.2 | 5.5 | 162.96 | 45.08 |
| 10341.0 | 0.6 | 2.70 | 35.0 | 59.2 | 28.2 | 0.0 | 18.3 | 6.8 | 162.72 | 44.93 |
| 10342.0 | 5.3 | 2.71 | 35.4 | 59.5 | 27.3 | 0.0 | 17.7 | 6.6 | 162.44 | 44.75 |
| 10343.0 | 0.0 | 2.70 | 34.6 | 58.8 | 30.1 | 0.0 | 19.7 | 7.3 | 162.16 | 44.57 |
| 10344.0 | 0.0 | 2.69 | 35.0 | 59.1 | 30.6 | 0.0 | 19.9 | 7.4 | 161.86 | 44.37 |
| 10345.0 | 3.8 | 2.72 | 36.6 | 60.5 | 29.1 | 0.0 | 18.4 | 7.0 | 161.57 | 44.18 |
| 10346.0 | 4.8 | 2.76 | 34.9 | 59.1 | 30.9 | 0.0 | 20.1 | 7.5 | 161.27 | 43.99 |
| 10347.0 | 7.6 | 2.73 | 39.2 | 62.6 | 26.9 | 0.0 | 16.3 | 6.3 | 160.97 | 43.80 |
| 10348.0 | 7.4 | 2.72 | 40.6 | 63.7 | 26.4 | 0.0 | 15.7 | 6.1 | 160.70 | 43.64 |
| 10349.0 | 0.0 | 2.70 | 39.3 | 62.7 | 30.0 | 0.0 | 18.2 | 7.0 | 160.43 | 43.47 |
| 10350.0 | 3.4 | 2.71 | 40.8 | 63.9 | 28.0 | 0.0 | 16.6 | 6.5 | 160.13 | 43.30 |
| 10351.0 | 4.1 | 2.71 | 38.5 | 62.0 | 28.6 | 0.0 | 17.6 | 6.7 | 159.85 | 43.13 |
| 10352.0 | 5.0 | 2.71 | 34.0 | 58.3 | 30.6 | 0.0 | 20.2 | 7.4 | 159.56 | 42.95 |
| 10353.0 | 2.2 | 2.71 | 34.2 | 58.5 | 28.8 | 0.0 | 18.9 | 7.0 | 159.27 | 42.75 |
| 10354.0 | 0.0 | 2.69 | 36.3 | 60.3 | 26.1 | 0.0 | 16.6 | 6.2 | 158.98 | 42.57 |
| 10355.0 | 0.0 | 2.70 | 39.1 | 62.5 | 24.1 | 0.0 | 14.7 | 5.7 | 158.73 | 42.41 |
| 10356.0 | 0.2 | 2.70 | 37.2 | 61.0 | 26.2 | 0.0 | 16.5 | 6.2 | 158.48 | 42.26 |
| 10357.0 | 4.9 | 2.71 | 41.7 | 64.6 | 24.4 | 0.0 | 14.2 | 5.6 | 158.22 | 42.09 |
| 10358.0 | 2.5 | 2.71 | 47.8 | 69.2 | 23.8 | 0.0 | 12.4 | 5.1 | 157.98 | 41.96 |
| 10359.0 | 4.7 | 2.72 | 52.2 | 72.2 | 22.5 | 0.0 | 10.8 | 4.5 | 157.75 | 41.84 |
| 10360.0 | 5.4 | 2.71 | 49.0 | 70.0 | 24.0 | 0.0 | 12.2 | 5.0 | 157.52 | 41.73 |
| 10361.0 | 2.5 | 2.71 | 49.2 | 70.1 | 25.0 | 0.0 | 12.7 | 5.2 | 157.28 | 41.61 |
| 10362.0 | 4.0 | 2.71 | 49.4 | 70.3 | 25.3 | 0.0 | 12.8 | 5.3 | 157.02 | 41.48 |
| 10363.0 | 0.2 | 2.71 | 54.9 | 74.1 | 24.7 | 0.0 | 11.1 | 4.7 | 156.77 | 41.35 |
| 10364.0 | 2.3 | 2.72 | 60.3 | 78.8 | 23.3 | 0.0 | 9.2 | 4.3 | 156.53 | 41.25 |
| 10365.0 | 3.0 | 2.71 | 61.2 | 79.8 | 24.7 | 0.0 | 9.6 | 4.6 | 156.30 | 41.16 |
| 10366.0 | 3.9 | 2.72 | 57.8 | 76.3 | 27.3 | 0.2 | 11.5 | 5.0 | 156.04 | 41.05 |

| DEPTH FEET | CLAY CONTENT % | AVERAGE MATRIX DENSITY GMS/CC | WATER SATURATIONS | | POROSITY | | HYDROCARBONS | | CUMULATIVE INTEGRATIONS | |
|---------------|----------------------|-------------------------------------|--------------------|-----------------|------------|----------------|--------------|--------------|----------------------------|-------|
| | | | VIRGIN ZONE (%) | INVADED ZONE | TOTAL % | SECONDARY % | TOTAL % | MCVABLE % | PCR-FT | HC-FT |
| 10367.0 | 1.2 | 2.71 | 63.6 | 82.6 | 26.2 | 0.0 | 9.5 | 5.0 | 155.77 | 40.94 |
| 10368.0 | 2.1 | 2.74 | 64.5 | 83.6 | 25.2 | 0.4 | 9.0 | 4.8 | 155.52 | 40.85 |
| 10369.0 | 3.8 | 2.73 | 68.2 | 87.8 | 23.1 | 0.0 | 7.4 | 4.5 | 155.28 | 40.77 |
| 10370.0 | 2.5 | 2.71 | 76.5 | 94.8 | 20.8 | 0.0 | 4.9 | 3.8 | 155.05 | 40.70 |
| 10371.0 | 1.1 | 2.71 | 88.5 | 98.1 | 19.3 | 0.0 | 2.2 | 1.9 | 154.86 | 40.66 |
| 10372.0 | 5.0 | 2.71 | 82.0 | 96.7 | 19.1 | 0.0 | 3.4 | 2.8 | 154.67 | 40.64 |
| 10373.0 | 3.5 | 2.72 | 72.8 | 92.3 | 21.1 | 0.0 | 5.7 | 4.1 | 154.47 | 40.60 |
| 10374.0 | 5.3 | 2.72 | 70.4 | 90.0 | 21.4 | 0.0 | 6.4 | 4.2 | 154.26 | 40.54 |
| 10375.0 | 7.0 | 2.73 | 73.3 | 92.7 | 20.1 | 0.0 | 5.4 | 3.9 | 154.04 | 40.48 |
| 10376.0 | 5.8 | 2.72 | 73.4 | 92.7 | 20.3 | 0.0 | 5.4 | 3.9 | 153.84 | 40.42 |
| 10377.0 | 3.5 | 2.75 | 71.0 | 90.6 | 21.6 | 0.0 | 6.3 | 4.2 | 153.64 | 40.37 |
| 10378.0 | 5.2 | 2.74 | 75.8 | 94.5 | 20.2 | 0.1 | 4.9 | 3.8 | 153.42 | 40.31 |
| 10379.0 | 3.0 | 2.71 | 68.3 | 88.0 | 23.4 | 0.3 | 7.4 | 4.6 | 153.22 | 40.26 |
| 10380.0 | 7.4 | 2.72 | 58.3 | 76.6 | 26.8 | 1.8 | 11.2 | 4.9 | 152.97 | 40.17 |
| 10381.0 | 5.6 | 2.75 | 58.2 | 76.6 | 27.9 | 0.7 | 11.6 | 5.1 | 152.69 | 40.05 |
| 10382.0 | 4.2 | 2.72 | 67.5 | 87.1 | 24.3 | 0.0 | 7.9 | 4.8 | 152.42 | 39.94 |
| 10383.0 | 4.2 | 2.74 | 66.4 | 85.8 | 24.8 | 2.9 | 8.3 | 4.8 | 152.18 | 39.86 |
| 10384.0 | 3.4 | 2.71 | 69.1 | 88.7 | 23.8 | 3.1 | 7.4 | 4.7 | 151.94 | 39.78 |
| 10385.0 | 0.0 | 2.70 | 68.1 | 87.7 | 24.7 | 1.2 | 7.9 | 4.8 | 151.70 | 39.71 |
| 10386.0 | 0.0 | 2.70 | 67.9 | 87.5 | 24.3 | 0.0 | 7.8 | 4.8 | 151.45 | 39.64 |
| 10387.0 | 0.0 | 2.71 | 66.3 | 85.7 | 24.5 | 0.1 | 8.3 | 4.8 | 151.21 | 39.56 |
| 10388.0 | 2.2 | 2.71 | 60.5 | 79.0 | 25.8 | 2.9 | 10.2 | 4.8 | 150.98 | 39.48 |
| 10389.0 | 0.0 | 2.70 | 55.0 | 74.2 | 28.6 | 3.1 | 12.9 | 5.5 | 150.72 | 39.37 |
| 10390.0 | 1.2 | 2.70 | 54.2 | 73.6 | 28.8 | 1.5 | 13.2 | 5.6 | 150.43 | 39.24 |
| 10391.0 | 4.5 | 2.72 | 54.7 | 74.0 | 28.0 | 0.5 | 12.7 | 5.4 | 150.15 | 39.12 |
| 10392.0 | 5.3 | 2.71 | 57.4 | 75.8 | 26.9 | 1.0 | 11.5 | 5.0 | 149.87 | 38.99 |
| 10393.0 | 0.0 | 2.70 | 62.6 | 81.4 | 26.3 | 0.7 | 9.8 | 4.9 | 149.60 | 38.88 |
| 10394.0 | 0.0 | 2.69 | 65.3 | 84.6 | 25.5 | 1.7 | 8.8 | 4.9 | 149.34 | 38.78 |
| 10395.0 | 0.0 | 2.68 | 66.0 | 85.3 | 25.5 | 0.0 | 8.7 | 4.9 | 149.08 | 38.69 |
| 10396.0 | 2.1 | 2.71 | 63.0 | 81.8 | 26.3 | 0.0 | 9.8 | 5.0 | 148.83 | 38.61 |
| 10397.0 | 1.9 | 2.72 | 59.5 | 77.9 | 28.2 | 0.0 | 11.4 | 5.2 | 148.55 | 38.50 |
| 10398.0 | 3.1 | 2.72 | 60.9 | 79.4 | 27.5 | 0.4 | 10.7 | 5.1 | 148.27 | 38.39 |
| 10399.0 | 6.7 | 2.71 | 68.9 | 88.5 | 22.8 | 1.0 | 7.1 | 4.5 | 148.01 | 38.29 |
| 10400.0 | 7.2 | 2.71 | 71.8 | 91.4 | 21.3 | 2.9 | 6.0 | 4.2 | 147.78 | 38.22 |
| 10401.0 | 5.7 | 2.72 | 79.9 | 96.1 | 19.7 | 1.8 | 4.0 | 3.2 | 147.57 | 38.16 |
| 10402.0 | 4.2 | 2.71 | 73.6 | 92.9 | 21.2 | 0.8 | 5.6 | 4.1 | 147.37 | 38.12 |
| 10403.0 | 3.6 | 2.73 | 71.9 | 91.5 | 21.9 | 0.0 | 6.1 | 4.3 | 147.16 | 38.06 |
| 10404.0 | 6.5 | 2.75 | 67.8 | 87.4 | 22.6 | 0.5 | 7.3 | 4.4 | 146.94 | 38.00 |
| 10405.0 | 9.1 | 2.74 | 65.6 | 84.9 | 22.3 | 0.1 | 7.7 | 4.3 | 146.71 | 37.93 |
| 10406.0 | 6.3 | 2.75 | 65.7 | 85.1 | 22.5 | 0.0 | 7.7 | 4.4 | 146.49 | 37.85 |
| 10407.0 | 3.4 | 2.75 | 63.0 | 81.9 | 23.7 | 0.0 | 8.8 | 4.5 | 146.26 | 37.77 |
| 10408.0 | 1.5 | 2.73 | 65.7 | 85.0 | 23.6 | 1.3 | 8.1 | 4.6 | 146.02 | 37.69 |
| 10409.0 | 5.0 | 2.72 | 72.5 | 92.0 | 21.1 | 0.7 | 5.8 | 4.1 | 145.80 | 37.61 |
| 10410.0 | 7.7 | 2.72 | 76.1 | 94.6 | 20.0 | 0.0 | 4.8 | 3.7 | 145.59 | 37.56 |
| 10411.0 | 5.7 | 2.73 | 77.9 | 95.4 | 19.5 | 0.0 | 4.3 | 3.4 | 145.39 | 37.51 |
| 10412.0 | 3.7 | 2.72 | 75.2 | 94.1 | 19.3 | 0.2 | 4.8 | 3.7 | 145.20 | 37.47 |
| 10413.0 | 0.0 | 2.69 | 95.8 | 99.4 | 16.3 | 1.0 | 0.7 | 0.6 | 145.01 | 37.43 |
| 10414.0 | 0.5 | 2.71 | 71.6 | 91.2 | 18.1 | 4.3 | 5.2 | 3.6 | 144.85 | 37.42 |

| 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 |
| 10415.0 | 3.4 | 2.74 | 49.7 | 70.5 | 23.3 | 3.9 | 11.7 | 4.8 | 144.65 | 37.35 |
| 10416.0 | 4.7 | 2.74 | 41.8 | 64.6 | 27.0 | 1.5 | 15.7 | 6.2 | 144.41 | 37.22 |
| 10417.0 | 0.1 | 2.79 | 36.0 | 60.0 | 32.3 | 0.6 | 20.7 | 7.8 | 144.13 | 37.05 |
| 10418.0 | 0.8 | 2.76 | 33.8 | 58.2 | 32.7 | 0.0 | 21.7 | 8.0 | 143.80 | 36.84 |
| 10419.0 | 4.5 | 2.75 | 31.5 | 56.1 | 32.9 | 0.0 | 22.5 | 8.1 | 143.47 | 36.62 |
| 10420.0 | 0.0 | 2.70 | 31.0 | 55.7 | 34.0 | 0.0 | 23.5 | 8.4 | 143.15 | 36.40 |
| 10421.0 | 0.0 | 2.68 | 30.5 | 55.3 | 34.9 | 0.0 | 24.2 | 8.6 | 142.80 | 36.16 |
| 10422.0 | 4.0 | 2.72 | 30.2 | 55.0 | 34.1 | 0.0 | 23.8 | 8.4 | 142.46 | 35.92 |
| 10423.0 | 2.4 | 2.78 | 28.4 | 53.3 | 36.1 | 0.0 | 25.8 | 9.0 | 142.11 | 35.68 |
| 10424.0 | 0.7 | 2.79 | 30.2 | 55.0 | 35.3 | 0.0 | 24.6 | 8.7 | 141.75 | 35.42 |
| 10425.0 | 1.2 | 2.72 | 36.5 | 60.4 | 29.5 | 0.0 | 18.8 | 7.1 | 141.41 | 35.19 |
| 10426.0 | 1.6 | 2.70 | 50.4 | 71.0 | 22.4 | 0.0 | 11.1 | 4.6 | 141.13 | 35.02 |
| 10427.0 | 5.1 | 2.72 | 52.9 | 72.7 | 21.6 | 0.0 | 10.2 | 4.3 | 140.91 | 34.91 |
| 10428.0 | 11.9 | 2.72 | 60.3 | 78.8 | 17.9 | 0.0 | 7.1 | 3.3 | 140.70 | 34.82 |
| 10429.0 | 16.1 | 2.74 | 59.6 | 78.0 | 17.6 | 0.0 | 7.1 | 3.2 | 140.53 | 34.75 |
| 10430.0 | 4.1 | 2.71 | 61.5 | 80.1 | 20.5 | 0.0 | 7.9 | 3.8 | 140.34 | 34.67 |
| 10431.0 | 8.2 | 2.72 | 63.1 | 82.0 | 17.9 | 0.0 | 6.6 | 3.4 | 140.15 | 34.60 |
| 10432.0 | 9.3 | 2.71 | 58.6 | 77.0 | 18.2 | 0.0 | 7.5 | 3.3 | 139.97 | 34.53 |
| 10433.0 | 6.6 | 2.73 | 52.1 | 72.2 | 20.6 | 0.0 | 9.9 | 4.1 | 139.78 | 34.45 |
| 10434.0 | 4.5 | 2.74 | 35.8 | 59.8 | 27.4 | 0.0 | 17.6 | 6.6 | 139.56 | 34.33 |
| 10435.0 | 6.2 | 2.72 | 27.5 | 52.4 | 33.1 | 0.0 | 24.0 | 8.2 | 139.27 | 34.14 |
| 10436.0 | 7.9 | 2.75 | 24.8 | 49.8 | 35.7 | 0.0 | 26.8 | 8.9 | 138.93 | 33.89 |
| 10437.0 | 9.6 | 2.74 | 24.4 | 49.4 | 35.2 | 0.0 | 26.6 | 8.8 | 138.57 | 33.62 |
| 10438.0 | 8.1 | 2.76 | 25.2 | 50.2 | 33.9 | 0.0 | 25.4 | 8.5 | 138.22 | 33.36 |
| 10439.0 | 6.3 | 2.72 | 29.9 | 54.7 | 29.2 | 0.0 | 20.5 | 7.2 | 137.90 | 33.12 |
| 10440.0 | 5.4 | 2.71 | 31.7 | 56.3 | 27.9 | 0.0 | 19.1 | 6.9 | 137.60 | 32.91 |
| 10441.0 | 0.1 | 2.70 | 37.3 | 61.1 | 24.8 | 0.0 | 15.6 | 5.9 | 137.33 | 32.73 |
| 10442.0 | 1.2 | 2.72 | 47.9 | 69.2 | 19.8 | 0.0 | 10.3 | 4.2 | 137.09 | 32.59 |
| 10443.0 | 2.4 | 2.71 | 49.1 | 70.1 | 20.1 | 0.0 | 10.2 | 4.2 | 136.90 | 32.49 |
| 10444.0 | 3.7 | 2.72 | 48.4 | 69.6 | 21.2 | 0.0 | 11.0 | 4.5 | 136.69 | 32.38 |
| 10445.0 | 0.0 | 2.76 | 52.9 | 72.7 | 21.3 | 0.0 | 10.0 | 4.2 | 136.48 | 32.27 |
| 10446.0 | 2.6 | 2.71 | 50.2 | 70.8 | 22.7 | 0.0 | 11.3 | 4.7 | 136.26 | 32.17 |
| 10447.0 | 0.0 | 2.68 | 43.4 | 65.9 | 27.1 | 2.9 | 15.3 | 6.1 | 136.02 | 32.05 |
| 10448.0 | 0.0 | 2.69 | 40.3 | 63.5 | 29.1 | 0.5 | 17.4 | 6.8 | 135.75 | 31.89 |
| 10449.0 | 0.0 | 2.68 | 41.2 | 64.2 | 27.8 | 0.0 | 16.3 | 6.4 | 135.46 | 31.71 |
| 10450.0 | 0.0 | 2.69 | 39.2 | 62.6 | 28.0 | 0.0 | 17.0 | 6.6 | 135.18 | 31.55 |
| 10451.0 | 1.9 | 2.72 | 36.3 | 60.2 | 28.6 | 0.0 | 18.2 | 6.9 | 134.90 | 31.38 |
| 10452.0 | 4.0 | 2.72 | 32.7 | 57.2 | 29.7 | 0.0 | 20.0 | 7.3 | 134.61 | 31.19 |
| 10453.0 | 1.3 | 2.70 | 30.3 | 55.0 | 31.4 | 0.0 | 21.9 | 7.8 | 134.31 | 30.98 |
| 10454.0 | 4.3 | 2.73 | 26.2 | 51.2 | 34.0 | 0.0 | 25.1 | 8.5 | 133.99 | 30.76 |
| 10455.0 | 4.4 | 2.76 | 24.4 | 49.4 | 35.9 | 0.0 | 27.2 | 9.0 | 133.64 | 30.50 |
| 10456.0 | 3.8 | 2.75 | 23.8 | 48.8 | 36.5 | 0.0 | 27.8 | 9.1 | 133.28 | 30.23 |
| 10457.0 | 1.7 | 2.79 | 23.5 | 48.5 | 35.3 | 0.0 | 27.0 | 8.8 | 132.92 | 29.95 |
| 10458.0 | 0.0 | 2.77 | 23.3 | 48.2 | 35.0 | 0.0 | 26.8 | 8.7 | 132.57 | 29.68 |
| 10459.0 | 0.0 | 2.71 | 25.1 | 50.1 | 33.7 | 0.0 | 25.2 | 8.4 | 132.22 | 29.42 |
| 10460.0 | 1.0 | 2.71 | 25.0 | 50.0 | 32.4 | 0.0 | 24.3 | 8.1 | 131.89 | 29.17 |
| 10461.0 | 3.1 | 2.71 | 27.3 | 52.2 | 29.9 | 0.0 | 21.7 | 7.5 | 131.57 | 28.93 |
| 10462.0 | 3.2 | 2.74 | 25.6 | 50.6 | 33.0 | 0.0 | 24.6 | 8.3 | 131.27 | 28.71 |

| DEPTH FEET | CLAY CONTENT % | AVERAGE MATRIX DENSITY GMS/CC | WATER SATURATIONS | | POROSITY | | HYDROCARBONS | | CUMULATIVE INTEGRATIONS | |
|---------------|----------------------|-------------------------------------|--------------------|-----------------|------------|----------------|--------------|--------------|----------------------------|-------|
| | | | VIRGIN ZONE (%) | INVADED ZONE | TOTAL % | SECONDARY % | TOTAL % | MCVABLE % | FOR-FT | HC-FT |
| 10463.0 | 3.3 | 2.74 | 25.0 | 50.0 | 34.4 | 0.0 | 25.8 | 8.6 | 130.93 | 28.46 |
| 10464.0 | 3.3 | 2.78 | 24.5 | 49.5 | 35.0 | 0.0 | 26.4 | 8.7 | 130.58 | 28.19 |
| 10465.0 | 3.3 | 2.76 | 25.1 | 50.1 | 34.6 | 0.0 | 25.9 | 8.6 | 130.23 | 27.93 |
| 10466.0 | 3.3 | 2.76 | 26.8 | 51.8 | 33.4 | 0.0 | 24.4 | 8.3 | 129.89 | 27.67 |
| 10467.0 | 2.5 | 2.78 | 26.7 | 51.7 | 33.2 | 0.0 | 24.3 | 8.3 | 129.55 | 27.43 |
| 10468.0 | 1.6 | 2.73 | 29.5 | 54.3 | 30.8 | 0.0 | 21.7 | 7.7 | 129.22 | 27.19 |
| 10469.0 | 3.4 | 2.71 | 37.4 | 61.2 | 27.2 | 0.0 | 17.0 | 6.5 | 128.92 | 26.98 |
| 10470.0 | 6.6 | 2.72 | 48.8 | 69.8 | 23.5 | 0.0 | 12.0 | 4.9 | 128.66 | 26.82 |
| 10471.0 | 10.2 | 2.73 | 55.6 | 74.6 | 20.7 | 0.0 | 9.2 | 3.9 | 128.43 | 26.71 |
| 10472.0 | 7.7 | 2.72 | 57.8 | 76.2 | 21.4 | 0.0 | 9.0 | 3.9 | 128.22 | 26.62 |
| 10473.0 | 7.4 | 2.71 | 62.3 | 81.0 | 21.4 | 0.0 | 8.1 | 4.0 | 128.00 | 26.53 |
| 10474.0 | 9.2 | 2.75 | 60.5 | 79.0 | 20.7 | 0.0 | 8.2 | 3.8 | 127.80 | 26.45 |
| 10475.0 | 5.3 | 2.79 | 53.5 | 73.1 | 24.1 | 0.0 | 11.2 | 4.7 | 127.58 | 26.36 |
| 10476.0 | 2.7 | 2.77 | 52.0 | 72.1 | 25.2 | 0.0 | 12.1 | 5.1 | 127.34 | 26.25 |
| 10477.0 | 3.6 | 2.74 | 60.4 | 78.9 | 21.3 | 0.0 | 8.4 | 3.9 | 127.09 | 26.13 |
| 10478.0 | 5.3 | 2.74 | 71.9 | 91.5 | 17.4 | 0.0 | 4.9 | 3.4 | 126.89 | 26.06 |
| 10479.0 | 5.7 | 2.72 | 73.2 | 92.5 | 16.8 | 0.0 | 4.5 | 3.3 | 126.72 | 26.01 |
| 10480.0 | 5.3 | 2.73 | 72.2 | 91.7 | 17.1 | 0.0 | 4.8 | 3.3 | 126.55 | 25.96 |
| 10481.0 | 4.9 | 2.73 | 61.7 | 80.3 | 20.0 | 0.0 | 7.7 | 3.7 | 126.37 | 25.91 |
| 10482.0 | 4.6 | 2.77 | 49.2 | 70.1 | 25.0 | 5.0 | 12.7 | 5.2 | 126.16 | 25.82 |
| 10483.0 | 4.4 | 2.73 | 41.7 | 64.6 | 29.1 | 5.6 | 16.9 | 6.6 | 125.90 | 25.68 |
| 10484.0 | 4.4 | 2.74 | 42.7 | 65.4 | 27.2 | 2.7 | 15.6 | 6.2 | 125.61 | 25.52 |
| 10485.0 | 4.3 | 2.72 | 49.8 | 70.6 | 22.5 | 4.6 | 11.3 | 4.7 | 125.35 | 25.37 |
| 10486.0 | 4.3 | 2.71 | 62.3 | 81.0 | 17.4 | 0.0 | 6.6 | 3.3 | 125.13 | 25.27 |
| 10487.0 | 4.3 | 2.73 | 51.4 | 71.7 | 20.3 | 0.0 | 9.9 | 4.1 | 124.95 | 25.20 |
| 10488.0 | 0.0 | 2.73 | 45.3 | 67.3 | 23.6 | 0.0 | 12.9 | 5.2 | 124.74 | 25.09 |
| 10489.0 | 0.0 | 2.72 | 47.7 | 69.1 | 21.8 | 0.4 | 11.4 | 4.7 | 124.51 | 24.96 |
| 10490.0 | 0.0 | 2.70 | 50.1 | 70.8 | 19.9 | 1.0 | 9.9 | 4.1 | 124.29 | 24.85 |
| 10491.0 | 0.0 | 2.70 | 56.0 | 74.8 | 17.7 | 0.8 | 7.8 | 3.3 | 124.10 | 24.76 |
| 10492.0 | 3.5 | 2.71 | 50.8 | 71.3 | 18.7 | 0.1 | 9.2 | 3.8 | 123.93 | 24.68 |
| 10493.0 | 0.0 | 2.70 | 39.1 | 62.5 | 25.2 | 0.1 | 15.4 | 5.9 | 123.72 | 24.57 |
| 10494.0 | 3.8 | 2.75 | 28.8 | 53.6 | 33.4 | 0.3 | 23.8 | 8.3 | 123.45 | 24.40 |
| 10495.0 | 5.2 | 2.75 | 25.7 | 52.5 | 36.5 | 0.0 | 27.2 | 9.8 | 123.11 | 24.15 |
| 10496.0 | 2.1 | 2.78 | 23.1 | 50.2 | 39.8 | 0.0 | 30.6 | 10.8 | 122.74 | 23.87 |
| 10497.0 | 0.0 | 2.75 | 20.8 | 45.6 | 41.1 | 0.0 | 32.6 | 10.2 | 122.33 | 23.56 |
| 10498.0 | 2.6 | 2.72 | 19.1 | 43.6 | 38.8 | 0.0 | 31.4 | 9.5 | 121.93 | 23.23 |
| 10499.0 | 5.8 | 2.77 | 17.4 | 41.8 | 38.7 | 0.0 | 32.0 | 9.5 | 121.53 | 22.91 |
| 10500.0 | 3.6 | 2.77 | 17.5 | 42.7 | 38.8 | 0.0 | 32.0 | 9.8 | 121.15 | 22.59 |
| 10501.0 | 1.2 | 2.77 | 19.2 | 43.7 | 38.5 | 0.0 | 31.1 | 9.5 | 120.76 | 22.28 |
| 10502.0 | 1.7 | 2.77 | 20.7 | 45.5 | 39.3 | 0.0 | 31.2 | 9.7 | 120.37 | 21.96 |
| 10503.0 | 2.2 | 2.74 | 24.1 | 51.1 | 36.9 | 0.0 | 28.0 | 9.9 | 119.99 | 21.66 |
| 10504.0 | 2.6 | 2.77 | 27.0 | 52.0 | 35.3 | 0.0 | 25.8 | 8.8 | 119.62 | 21.38 |
| 10505.0 | 3.1 | 2.77 | 32.3 | 56.8 | 31.7 | 0.0 | 21.5 | 7.8 | 119.27 | 21.14 |
| 10506.0 | 3.5 | 2.71 | 39.2 | 62.6 | 26.7 | 0.0 | 16.3 | 6.3 | 118.97 | 20.93 |
| 10507.0 | 4.1 | 2.75 | 38.8 | 62.3 | 27.7 | 1.0 | 16.9 | 6.5 | 118.70 | 20.77 |
| 10508.0 | 1.7 | 2.71 | 44.2 | 66.5 | 26.1 | 1.3 | 14.6 | 5.8 | 118.43 | 20.61 |
| 10509.0 | 4.3 | 2.73 | 49.0 | 70.0 | 24.0 | 1.7 | 12.2 | 5.0 | 118.18 | 20.47 |
| 10510.0 | 3.7 | 2.73 | 52.4 | 72.4 | 23.6 | 1.1 | 11.3 | 4.7 | 117.94 | 20.35 |

| 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 |
| 10511.0 | 3.0 | 2.72 | 62.4 | 81.2 | 20.8 | 0.6 | 7.8 | 3.9 | 117.71 | 20.25 |
| 10512.0 | 1.8 | 2.72 | 72.7 | 92.2 | 19.0 | 1.2 | 5.2 | 3.7 | 117.51 | 20.18 |
| 10513.0 | 0.4 | 2.75 | 73.8 | 93.1 | 19.7 | 2.6 | 5.2 | 3.8 | 117.32 | 20.13 |
| 10514.0 | 2.2 | 2.75 | 73.6 | 92.9 | 19.7 | 3.5 | 5.2 | 3.8 | 117.11 | 20.07 |
| 10515.0 | 6.7 | 2.73 | 88.7 | 98.2 | 17.2 | 3.5 | 1.9 | 1.6 | 116.92 | 20.02 |
| 10516.0 | 5.6 | 2.73 | 90.1 | 98.5 | 17.7 | 3.2 | 1.8 | 1.5 | 116.75 | 20.01 |
| 10517.0 | 3.4 | 2.72 | 93.6 | 99.1 | 18.2 | 2.6 | 1.2 | 1.0 | 116.57 | 19.99 |
| 10518.0 | 1.2 | 2.74 | 96.8 | 99.5 | 18.5 | 1.3 | 0.6 | 0.5 | 116.39 | 19.98 |
| 10519.0 | 0.8 | 2.74 | 90.7 | 98.6 | 19.7 | 1.8 | 1.8 | 1.5 | 116.20 | 19.97 |
| 10520.0 | 3.7 | 2.74 | 95.1 | 99.3 | 18.2 | 1.9 | 0.9 | 0.8 | 116.00 | 19.95 |
| 10521.0 | 6.6 | 2.73 | 100.0 | 100.0 | 15.0 | 1.8 | 0.0 | 0.0 | 115.83 | 19.95 |
| 10522.0 | 4.4 | 2.73 | 100.0 | 100.0 | 15.3 | 1.3 | 0.0 | 0.0 | 115.68 | 19.95 |
| 10523.0 | 6.2 | 2.72 | 100.0 | 100.0 | 13.8 | 1.1 | 0.0 | 0.0 | 115.53 | 19.95 |
| 10524.0 | 0.0 | 2.70 | 99.8 | 100.0 | 15.9 | 2.1 | 0.0 | 0.0 | 115.39 | 19.95 |
| 10525.0 | 3.1 | 2.71 | 75.4 | 94.3 | 18.4 | 4.0 | 4.5 | 3.5 | 115.23 | 19.94 |
| 10526.0 | 1.5 | 2.73 | 65.4 | 84.7 | 21.2 | 2.6 | 7.3 | 4.1 | 115.03 | 19.89 |
| 10527.0 | 1.9 | 2.75 | 72.2 | 91.7 | 20.0 | 1.4 | 5.6 | 3.9 | 114.82 | 19.82 |
| 10528.0 | 2.3 | 2.72 | 100.0 | 100.0 | 15.8 | 1.1 | 0.0 | 0.0 | 114.63 | 19.78 |
| 10529.0 | 5.0 | 2.72 | 100.0 | 100.0 | 15.7 | 1.6 | 0.0 | 0.0 | 114.48 | 19.78 |
| 10530.0 | 3.5 | 2.73 | 100.0 | 100.0 | 17.2 | 0.0 | 0.0 | 0.0 | 114.32 | 19.78 |
| 10531.0 | 0.0 | 2.74 | 99.7 | 100.0 | 19.2 | 0.0 | 0.1 | 0.0 | 114.14 | 19.78 |
| 10532.0 | 0.0 | 2.73 | 100.0 | 100.0 | 17.2 | 0.0 | 0.0 | 0.0 | 113.95 | 19.78 |
| 10533.0 | 0.0 | 2.72 | 100.0 | 100.0 | 14.4 | 0.0 | 0.0 | 0.0 | 113.78 | 19.78 |
| 10534.0 | 0.0 | 2.74 | 100.0 | 100.0 | 13.9 | 0.4 | 0.0 | 0.0 | 113.64 | 19.78 |
| 10535.0 | 0.0 | 2.73 | 100.0 | 100.0 | 12.5 | 0.5 | 0.0 | 0.0 | 113.51 | 19.78 |
| 10536.0 | 7.0 | 2.73 | 100.0 | 100.0 | 9.9 | 2.0 | 0.0 | 0.0 | 113.39 | 19.78 |
| 10537.0 | 4.8 | 2.74 | 100.0 | 100.0 | 10.6 | 0.2 | 0.0 | 0.0 | 113.29 | 19.78 |
| 10538.0 | 1.5 | 2.74 | 100.0 | 100.0 | 14.3 | 0.4 | 0.0 | 0.0 | 113.18 | 19.78 |
| 10539.0 | 0.0 | 2.75 | 100.0 | 100.0 | 16.7 | 0.0 | 0.0 | 0.0 | 113.02 | 19.78 |
| 10540.0 | 0.2 | 2.76 | 100.0 | 100.0 | 18.1 | 0.0 | 0.0 | 0.0 | 112.85 | 19.78 |
| 10541.0 | 1.6 | 2.73 | 99.9 | 100.0 | 18.1 | 0.7 | 0.0 | 0.0 | 112.67 | 19.78 |
| 10542.0 | 5.9 | 2.72 | 100.0 | 100.0 | 14.6 | 1.4 | 0.0 | 0.0 | 112.50 | 19.78 |
| 10543.0 | 5.5 | 2.73 | 100.0 | 100.0 | 13.1 | 1.5 | 0.0 | 0.0 | 112.36 | 19.78 |
| 10544.0 | 0.5 | 2.74 | 100.0 | 100.0 | 14.5 | 1.5 | 0.0 | 0.0 | 112.22 | 19.78 |
| 10545.0 | 0.0 | 2.73 | 100.0 | 100.0 | 15.5 | 0.5 | 0.0 | 0.0 | 112.08 | 19.78 |
| 10546.0 | 0.0 | 2.74 | 90.2 | 98.5 | 19.2 | 0.1 | 1.9 | 1.6 | 111.91 | 19.78 |
| 10547.0 | 0.0 | 2.76 | 72.1 | 91.6 | 22.6 | 1.0 | 6.3 | 4.4 | 111.71 | 19.75 |
| 10548.0 | 0.0 | 2.75 | 73.3 | 92.6 | 21.6 | 1.6 | 5.8 | 4.2 | 111.49 | 19.68 |
| 10549.0 | 3.7 | 2.71 | 90.5 | 98.5 | 17.2 | 1.3 | 1.6 | 1.4 | 111.28 | 19.63 |
| 10550.0 | 0.2 | 2.71 | 87.9 | 98.0 | 17.6 | 0.0 | 2.1 | 1.8 | 111.11 | 19.62 |
| 10551.0 | 1.2 | 2.71 | 70.2 | 89.9 | 19.7 | 0.0 | 5.9 | 3.9 | 110.93 | 19.59 |
| 10552.0 | 0.1 | 2.71 | 60.0 | 78.4 | 22.9 | 0.0 | 9.2 | 4.2 | 110.73 | 19.52 |
| 10553.0 | 0.0 | 2.73 | 50.4 | 71.0 | 26.5 | 0.0 | 13.1 | 5.5 | 110.49 | 19.42 |
| 10554.0 | 0.0 | 2.74 | 46.1 | 67.9 | 27.8 | 0.0 | 15.0 | 6.1 | 110.22 | 19.28 |
| 10555.0 | 0.0 | 2.73 | 45.4 | 67.4 | 28.0 | 0.0 | 15.3 | 6.1 | 109.94 | 19.13 |
| 10556.0 | 0.0 | 2.72 | 52.7 | 72.6 | 25.0 | 0.0 | 11.8 | 5.0 | 109.67 | 18.99 |
| 10557.0 | 0.4 | 2.71 | 62.1 | 80.9 | 22.3 | 0.0 | 8.4 | 4.2 | 109.43 | 18.88 |
| 10558.0 | 0.9 | 2.73 | 73.9 | 93.2 | 20.0 | 0.6 | 5.2 | 3.9 | 109.21 | 18.80 |

| DEPTH FEET | CLAY CONTENT % | AVERAGE MATRIX DENSITY GMS/CC | WATER SATURATIONS | | POROSITY | | HYDROCARBONS | | CUMULATIVE INTEGRATIONS | |
|---------------|----------------------|-------------------------------------|--------------------|-----------------|------------|----------------|--------------|--------------|----------------------------|-------|
| | | | VIRGIN ZONE (%) | INVADED ZONE | TOTAL % | SECONDARY % | TOTAL % | MOVABLE % | FOR-FT | HC-FT |
| 10559.0 | 2.0 | 2.72 | 99.9 | 100.0 | 16.5 | 1.3 | 0.0 | 0.0 | 109.02 | 18.76 |
| 10560.0 | 0.0 | 2.71 | 100.0 | 100.0 | 16.4 | 1.3 | 0.0 | 0.0 | 108.85 | 18.76 |
| 10561.0 | 3.9 | 2.72 | 100.0 | 100.0 | 14.2 | 1.7 | 0.0 | 0.0 | 108.70 | 18.76 |
| 10562.0 | 5.1 | 2.74 | 100.0 | 100.0 | 14.8 | 1.7 | 0.0 | 0.0 | 108.56 | 18.76 |
| 10563.0 | 4.3 | 2.73 | 100.0 | 100.0 | 15.9 | 1.4 | 0.0 | 0.0 | 108.41 | 18.76 |
| 10564.0 | 1.5 | 2.73 | 100.0 | 100.0 | 15.4 | 0.0 | 0.0 | 0.0 | 108.25 | 18.76 |
| 10565.0 | 0.4 | 2.73 | 100.0 | 100.0 | 15.1 | 0.0 | 0.0 | 0.0 | 108.09 | 18.76 |
| 10566.0 | 2.5 | 2.73 | 100.0 | 100.0 | 15.0 | 0.5 | 0.0 | 0.0 | 107.94 | 18.76 |
| 10567.0 | 1.3 | 2.71 | 100.0 | 100.0 | 16.7 | 0.8 | 0.0 | 0.0 | 107.79 | 18.76 |
| 10568.0 | 2.8 | 2.74 | 93.4 | 99.0 | 20.4 | 1.2 | 1.4 | 1.2 | 107.62 | 18.76 |
| 10569.0 | 1.4 | 2.72 | 79.1 | 95.9 | 22.5 | 0.0 | 4.7 | 3.8 | 107.41 | 18.74 |
| 10570.0 | 0.0 | 2.73 | 67.5 | 87.1 | 25.1 | 0.0 | 8.1 | 4.9 | 107.18 | 18.69 |
| 10571.0 | 0.5 | 2.74 | 60.6 | 79.1 | 26.7 | 0.6 | 10.5 | 4.9 | 106.92 | 18.60 |
| 10572.0 | 1.4 | 2.76 | 58.5 | 76.8 | 27.0 | 0.0 | 11.2 | 5.0 | 106.65 | 18.49 |
| 10573.0 | 2.2 | 2.75 | 59.0 | 77.4 | 26.1 | 0.0 | 10.7 | 4.8 | 106.38 | 18.38 |
| 10574.0 | 3.8 | 2.74 | 56.5 | 75.1 | 26.4 | 1.2 | 11.5 | 4.9 | 106.12 | 18.27 |
| 10575.0 | 5.6 | 2.73 | 56.8 | 75.4 | 25.3 | 0.6 | 10.9 | 4.7 | 105.86 | 18.16 |
| 10576.0 | 7.4 | 2.72 | 54.8 | 74.1 | 26.1 | 0.6 | 11.8 | 5.0 | 105.61 | 18.05 |
| 10577.0 | 5.8 | 2.71 | 55.6 | 74.5 | 26.5 | 0.0 | 11.8 | 5.0 | 105.34 | 17.92 |
| 10578.0 | 4.1 | 2.74 | 51.5 | 71.8 | 29.5 | 0.0 | 14.3 | 6.0 | 105.06 | 17.80 |
| 10579.0 | 2.4 | 2.78 | 49.7 | 70.5 | 31.5 | 1.3 | 15.9 | 6.6 | 104.76 | 17.65 |
| 10580.0 | 2.8 | 2.77 | 51.4 | 71.7 | 30.4 | 1.6 | 14.8 | 6.2 | 104.45 | 17.49 |
| 10581.0 | 3.8 | 2.75 | 55.3 | 74.4 | 28.2 | 1.1 | 12.6 | 5.4 | 104.15 | 17.35 |
| 10582.0 | 2.9 | 2.76 | 54.8 | 74.0 | 29.5 | 1.6 | 13.3 | 5.7 | 103.87 | 17.22 |
| 10583.0 | 0.0 | 2.78 | 53.0 | 72.8 | 32.0 | 1.0 | 15.1 | 6.3 | 103.56 | 17.08 |
| 10584.0 | 2.0 | 2.77 | 53.3 | 73.0 | 32.5 | 1.3 | 15.2 | 6.4 | 103.24 | 16.93 |
| 10585.0 | 4.3 | 2.73 | 55.8 | 74.7 | 31.5 | 2.4 | 13.9 | 6.0 | 102.92 | 16.78 |
| 10586.0 | 3.8 | 2.73 | 59.0 | 77.4 | 30.6 | 0.0 | 12.5 | 5.6 | 102.61 | 16.65 |
| 10587.0 | 3.0 | 2.71 | 58.5 | 76.9 | 30.6 | 0.0 | 12.7 | 5.6 | 102.30 | 16.52 |
| 10588.0 | 2.2 | 2.76 | 56.9 | 75.5 | 31.4 | 0.0 | 13.5 | 5.8 | 101.99 | 16.39 |
| 10589.0 | 1.4 | 2.77 | 60.0 | 78.4 | 30.1 | 0.1 | 12.0 | 5.5 | 101.68 | 16.26 |
| 10590.0 | 0.6 | 2.75 | 63.9 | 82.9 | 29.0 | 1.0 | 10.5 | 5.5 | 101.39 | 16.15 |
| 10591.0 | 0.4 | 2.72 | 69.9 | 89.6 | 27.5 | 0.0 | 8.3 | 5.4 | 101.10 | 16.05 |
| 10592.0 | 0.2 | 2.71 | 78.2 | 95.5 | 25.8 | 0.3 | 5.6 | 4.5 | 100.83 | 15.97 |
| 10593.0 | 0.0 | 2.74 | 94.7 | 99.2 | 23.6 | 0.2 | 1.2 | 1.1 | 100.58 | 15.93 |
| 10594.0 | 0.0 | 2.71 | 100.0 | 100.0 | 21.2 | 0.1 | 0.0 | 0.0 | 100.34 | 15.92 |
| 10595.0 | 0.1 | 2.71 | 100.0 | 100.0 | 20.8 | 1.4 | 0.0 | 0.0 | 100.14 | 15.92 |
| 10596.0 | 0.5 | 2.72 | 100.0 | 100.0 | 20.6 | 0.2 | 0.0 | 0.0 | 99.93 | 15.92 |
| 10597.0 | 0.8 | 2.75 | 99.8 | 100.0 | 22.1 | 0.0 | 0.0 | 0.0 | 99.72 | 15.92 |
| 10598.0 | 1.1 | 2.75 | 99.5 | 99.9 | 23.3 | 0.0 | 0.1 | 0.1 | 99.49 | 15.92 |
| 10599.0 | 1.1 | 2.76 | 99.7 | 100.0 | 24.1 | 0.0 | 0.1 | 0.1 | 99.26 | 15.92 |
| 10600.0 | 1.1 | 2.76 | 100.0 | 100.0 | 23.9 | 0.8 | 0.0 | 0.0 | 99.02 | 15.92 |
| 10601.0 | 1.1 | 2.75 | 100.0 | 100.0 | 22.7 | 1.5 | 0.0 | 0.0 | 98.78 | 15.92 |
| 10602.0 | 0.4 | 2.74 | 100.0 | 100.0 | 20.7 | 1.2 | 0.0 | 0.0 | 98.56 | 15.92 |
| 10603.0 | 0.2 | 2.73 | 100.0 | 100.0 | 19.2 | 1.4 | 0.0 | 0.0 | 98.36 | 15.92 |
| 10604.0 | 2.1 | 2.72 | 100.0 | 100.0 | 16.2 | 1.2 | 0.0 | 0.0 | 98.17 | 15.92 |
| 10605.0 | 3.9 | 2.74 | 100.0 | 100.0 | 16.7 | 2.2 | 0.0 | 0.0 | 98.01 | 15.92 |
| 10606.0 | 2.0 | 2.75 | 100.0 | 100.0 | 19.0 | 1.9 | 0.0 | 0.0 | 97.84 | 15.92 |

| DEPTH FEET | CLAY CONTENT % | AVERAGE MATRIX DENSITY GMS/CC | WATER SATURATIONS | | POROSITY | | HYDROCARBONS | | CUMULATIVE INTEGRATIONS | |
|---------------|----------------------|-------------------------------------|--------------------|-----------------|------------|----------------|--------------|--------------|----------------------------|-------|
| | | | VIRGIN ZONE (%) | INVADED ZONE | TOTAL % | SECONDARY % | TOTAL % | MOVABLE % | PCR-FT | HC-FT |
| 10607.0 | 0.1 | 2.73 | 100.0 | 100.0 | 19.3 | 0.0 | 0.0 | 0.0 | 97.65 | 15.92 |
| 10608.0 | 3.0 | 2.73 | 100.0 | 100.0 | 18.5 | 0.0 | 0.0 | 0.0 | 97.45 | 15.92 |
| 10609.0 | 4.1 | 2.75 | 100.0 | 100.0 | 19.0 | 1.3 | 0.0 | 0.0 | 97.27 | 15.92 |
| 10610.0 | 3.7 | 2.76 | 100.0 | 100.0 | 20.1 | 2.1 | 0.0 | 0.0 | 97.08 | 15.92 |
| 10611.0 | 2.9 | 2.78 | 100.0 | 100.0 | 21.1 | 1.9 | 0.0 | 0.0 | 96.87 | 15.92 |
| 10612.0 | 2.2 | 2.76 | 100.0 | 100.0 | 20.1 | 0.6 | 0.0 | 0.0 | 96.67 | 15.92 |
| 10613.0 | 1.5 | 2.79 | 100.0 | 100.0 | 19.1 | 0.2 | 0.0 | 0.0 | 96.46 | 15.92 |
| 10614.0 | 1.3 | 2.77 | 100.0 | 100.0 | 18.8 | 0.4 | 0.0 | 0.0 | 96.28 | 15.92 |
| 10615.0 | 1.2 | 2.79 | 100.0 | 100.0 | 21.7 | 1.6 | 0.0 | 0.0 | 96.09 | 15.92 |
| 10616.0 | 1.3 | 2.75 | 100.0 | 100.0 | 22.3 | 0.5 | 0.0 | 0.0 | 95.85 | 15.92 |
| 10617.0 | 1.8 | 2.76 | 100.0 | 100.0 | 22.3 | 0.2 | 0.0 | 0.0 | 95.64 | 15.92 |
| 10618.0 | 2.4 | 2.78 | 100.0 | 100.0 | 18.4 | 0.0 | 0.0 | 0.0 | 95.43 | 15.92 |
| 10619.0 | 3.0 | 2.75 | 100.0 | 100.0 | 16.4 | 0.0 | 0.0 | 0.0 | 95.25 | 15.92 |
| 10620.0 | 2.1 | 2.76 | 100.0 | 100.0 | 18.8 | 0.7 | 0.0 | 0.0 | 95.08 | 15.92 |
| 10621.0 | 0.9 | 2.78 | 100.0 | 100.0 | 22.1 | 1.3 | 0.0 | 0.0 | 94.88 | 15.92 |
| 10622.0 | 1.7 | 2.77 | 100.0 | 100.0 | 23.3 | 1.0 | 0.0 | 0.0 | 94.66 | 15.92 |
| 10623.0 | 2.0 | 2.75 | 100.0 | 100.0 | 24.0 | 0.2 | 0.0 | 0.0 | 94.42 | 15.92 |
| 10624.0 | 0.6 | 2.78 | 100.0 | 100.0 | 25.9 | 0.4 | 0.0 | 0.0 | 94.18 | 15.92 |
| 10625.0 | 0.0 | 2.78 | 100.0 | 100.0 | 26.9 | 1.4 | 0.0 | 0.0 | 93.92 | 15.92 |
| 10626.0 | 2.6 | 2.76 | 100.0 | 100.0 | 23.7 | 1.3 | 0.0 | 0.0 | 93.65 | 15.92 |
| 10627.0 | 6.5 | 2.75 | 100.0 | 100.0 | 19.5 | 2.6 | 0.0 | 0.0 | 93.42 | 15.92 |
| 10628.0 | 10.4 | 2.77 | 100.0 | 100.0 | 15.9 | 0.0 | 0.0 | 0.0 | 93.24 | 15.92 |
| 10629.0 | 10.3 | 2.76 | 99.7 | 100.0 | 19.5 | 0.2 | 0.1 | 0.1 | 93.07 | 15.92 |
| 10630.0 | 9.7 | 2.72 | 93.2 | 99.0 | 21.6 | 1.3 | 1.5 | 1.3 | 92.87 | 15.91 |
| 10631.0 | 8.1 | 2.74 | 99.8 | 100.0 | 20.1 | 0.4 | 0.0 | 0.0 | 92.66 | 15.90 |
| 10632.0 | 7.0 | 2.72 | 99.9 | 100.0 | 19.7 | 1.4 | 0.0 | 0.0 | 92.45 | 15.90 |
| 10633.0 | 10.7 | 2.74 | 96.9 | 99.6 | 19.6 | 1.4 | 0.6 | 0.5 | 92.26 | 15.90 |
| 10634.0 | 14.2 | 2.76 | 100.0 | 100.0 | 16.3 | 0.0 | 0.0 | 0.0 | 92.06 | 15.89 |
| 10635.0 | 15.9 | 2.76 | 100.0 | 100.0 | 12.2 | 0.0 | 0.0 | 0.0 | 91.92 | 15.89 |
| 10636.0 | 12.4 | 2.75 | 100.0 | 100.0 | 11.2 | 0.0 | 0.0 | 0.0 | 91.80 | 15.89 |
| 10637.0 | 11.5 | 2.75 | 100.0 | 100.0 | 10.8 | 0.0 | 0.0 | 0.0 | 91.68 | 15.89 |
| 10638.0 | 12.9 | 2.75 | 100.0 | 100.0 | 11.2 | 0.0 | 0.0 | 0.0 | 91.57 | 15.89 |
| 10639.0 | 14.3 | 2.75 | 100.0 | 100.0 | 11.0 | 0.0 | 0.0 | 0.0 | 91.46 | 15.89 |
| 10640.0 | 15.3 | 2.74 | 100.0 | 100.0 | 11.2 | 0.0 | 0.0 | 0.0 | 91.35 | 15.89 |
| 10641.0 | 15.3 | 2.75 | 99.3 | 99.9 | 12.3 | 0.0 | 0.1 | 0.1 | 91.24 | 15.89 |
| 10642.0 | 15.1 | 2.75 | 97.0 | 99.6 | 13.2 | 1.6 | 0.4 | 0.3 | 91.11 | 15.89 |
| 10643.0 | 13.9 | 2.73 | 100.0 | 100.0 | 11.9 | 0.0 | 0.0 | 0.0 | 90.98 | 15.89 |
| 10644.0 | 22.4 | 2.73 | 100.0 | 100.0 | 8.3 | 0.0 | 0.0 | 0.0 | 90.87 | 15.89 |
| 10645.0 | 16.0 | 2.76 | 100.0 | 100.0 | 9.4 | 0.0 | 0.0 | 0.0 | 90.79 | 15.89 |
| 10646.0 | 21.2 | 2.75 | 100.0 | 100.0 | 6.2 | 0.0 | 0.0 | 0.0 | 90.70 | 15.89 |
| 10647.0 | 22.7 | 2.73 | 100.0 | 100.0 | 5.5 | 0.0 | 0.0 | 0.0 | 90.64 | 15.89 |
| 10648.0 | 21.1 | 2.74 | 100.0 | 100.0 | 5.7 | 0.0 | 0.0 | 0.0 | 90.58 | 15.89 |
| 10649.0 | 19.4 | 2.75 | 100.0 | 100.0 | 7.5 | 0.0 | 0.0 | 0.0 | 90.52 | 15.89 |
| 10650.0 | 21.4 | 2.73 | 100.0 | 100.0 | 5.8 | 0.0 | 0.0 | 0.0 | 90.45 | 15.89 |
| 10651.0 | 11.5 | 2.72 | 100.0 | 100.0 | 9.0 | 0.0 | 0.0 | 0.0 | 90.39 | 15.89 |
| 10652.0 | 13.3 | 2.72 | 100.0 | 100.0 | 8.7 | 0.0 | 0.0 | 0.0 | 90.30 | 15.89 |
| 10653.0 | 23.2 | 2.73 | 100.0 | 100.0 | 5.5 | 0.0 | 0.0 | 0.0 | 90.22 | 15.89 |
| 10654.0 | 25.9 | 2.74 | 100.0 | 100.0 | 5.0 | 0.0 | 0.0 | 0.0 | 90.17 | 15.89 |

| DEPTH FEET | CLAY CONTENT % | AVERAGE MATRIX DENSITY GMS/CC | WATER SATURATIONS | | POROSITY | | HYDROCARBONS | | CUMULATIVE INTEGRATIONS | |
|---------------|----------------------|-------------------------------------|--------------------|-----------------|------------|----------------|--------------|--------------|----------------------------|-------|
| | | | VIRGIN ZONE (%) | INVADED ZONE | TOTAL % | SECONDARY % | TOTAL % | MOVABLE % | FOR-FT | HC-FT |
| 10655.0 | 18.0 | 2.74 | 100.0 | 100.0 | 8.2 | 0.0 | 0.0 | 0.0 | 90.11 | 15.89 |
| 10656.0 | 13.2 | 2.74 | 100.0 | 100.0 | 9.1 | 0.0 | 0.0 | 0.0 | 90.02 | 15.89 |
| 10657.0 | 13.5 | 2.75 | 100.0 | 100.0 | 7.8 | 0.0 | 0.0 | 0.0 | 89.94 | 15.89 |
| 10658.0 | 17.3 | 2.72 | 100.0 | 100.0 | 6.0 | 0.0 | 0.0 | 0.0 | 89.86 | 15.89 |
| 10659.0 | 15.2 | 2.72 | 100.0 | 100.0 | 4.8 | 0.0 | 0.0 | 0.0 | 89.79 | 15.89 |
| 10660.0 | 23.1 | 2.74 | 100.0 | 100.0 | 5.8 | 0.0 | 0.0 | 0.0 | 89.75 | 15.89 |
| 10661.0 | 16.4 | 2.73 | 100.0 | 100.0 | 10.0 | 0.0 | 0.0 | 0.0 | 89.68 | 15.89 |
| 10662.0 | 19.0 | 2.73 | 100.0 | 100.0 | 9.0 | 0.0 | 0.0 | 0.0 | 89.59 | 15.89 |
| 10663.0 | 21.0 | 2.73 | 100.0 | 100.0 | 7.6 | 0.0 | 0.0 | 0.0 | 89.50 | 15.89 |
| 10664.0 | 16.8 | 2.74 | 100.0 | 100.0 | 8.7 | 0.0 | 0.0 | 0.0 | 89.42 | 15.89 |
| 10665.0 | 19.2 | 2.73 | 100.0 | 100.0 | 7.6 | 0.0 | 0.0 | 0.0 | 89.34 | 15.89 |
| 10666.0 | 13.3 | 2.72 | 100.0 | 100.0 | 8.9 | 0.0 | 0.0 | 0.0 | 89.25 | 15.89 |
| 10667.0 | 12.6 | 2.72 | 100.0 | 100.0 | 10.3 | 0.0 | 0.0 | 0.0 | 89.16 | 15.89 |
| 10668.0 | 15.7 | 2.73 | 100.0 | 100.0 | 8.7 | 1.7 | 0.0 | 0.0 | 89.06 | 15.89 |
| 10669.0 | 8.4 | 2.74 | 100.0 | 100.0 | 10.7 | 3.2 | 0.0 | 0.0 | 88.97 | 15.89 |
| 10670.0 | 13.0 | 2.72 | 100.0 | 100.0 | 7.2 | 0.0 | 0.0 | 0.0 | 88.87 | 15.89 |
| 10671.0 | 17.9 | 2.73 | 100.0 | 100.0 | 4.7 | 0.0 | 0.0 | 0.0 | 88.79 | 15.89 |
| 10672.0 | 25.4 | 2.74 | 100.0 | 100.0 | 5.1 | 0.0 | 0.0 | 0.0 | 88.74 | 15.89 |
| 10673.0 | 15.1 | 2.78 | 100.0 | 100.0 | 8.6 | 0.6 | 0.0 | 0.0 | 88.68 | 15.89 |
| 10674.0 | 14.3 | 2.75 | 100.0 | 100.0 | 7.6 | 1.0 | 0.0 | 0.0 | 88.60 | 15.89 |
| 10675.0 | 14.9 | 2.75 | 100.0 | 100.0 | 6.3 | 0.0 | 0.0 | 0.0 | 88.52 | 15.89 |
| 10676.0 | 19.3 | 2.74 | 100.0 | 100.0 | 3.5 | 0.0 | 0.0 | 0.0 | 88.46 | 15.89 |
| 10677.0 | 21.7 | 2.73 | 100.0 | 100.0 | 2.0 | 0.0 | 0.0 | 0.0 | 88.43 | 15.89 |
| 10678.0 | 17.1 | 2.75 | 100.0 | 100.0 | 3.2 | 0.0 | 0.0 | 0.0 | 88.41 | 15.89 |
| 10679.0 | 11.3 | 2.78 | 100.0 | 100.0 | 5.0 | 0.0 | 0.0 | 0.0 | 88.38 | 15.89 |
| 10680.0 | 11.5 | 2.74 | 100.0 | 100.0 | 3.9 | 0.2 | 0.0 | 0.0 | 88.33 | 15.89 |
| 10681.0 | 8.9 | 2.75 | 100.0 | 100.0 | 4.3 | 0.2 | 0.0 | 0.0 | 88.29 | 15.89 |
| 10682.0 | 6.3 | 2.73 | 100.0 | 100.0 | 5.0 | 0.0 | 0.0 | 0.0 | 88.24 | 15.89 |
| 10683.0 | 6.2 | 2.75 | 100.0 | 100.0 | 5.1 | 0.0 | 0.0 | 0.0 | 88.19 | 15.89 |
| 10684.0 | 10.2 | 2.75 | 100.0 | 100.0 | 5.0 | 0.0 | 0.0 | 0.0 | 88.14 | 15.89 |
| 10685.0 | 6.0 | 2.77 | 96.4 | 98.1 | 9.1 | 0.0 | 0.3 | 0.1 | 88.08 | 15.89 |
| 10686.0 | 4.6 | 2.76 | 75.2 | 82.4 | 12.0 | 0.0 | 3.0 | 0.9 | 87.98 | 15.87 |
| 10687.0 | 4.9 | 2.74 | 73.0 | 78.8 | 13.1 | 0.4 | 3.5 | 0.8 | 87.86 | 15.84 |
| 10688.0 | 6.5 | 2.73 | 78.8 | 86.2 | 12.0 | 1.3 | 2.5 | 0.9 | 87.73 | 15.81 |
| 10689.0 | 8.6 | 2.74 | 91.1 | 95.0 | 9.8 | 2.6 | 0.9 | 0.4 | 87.62 | 15.79 |
| 10690.0 | 5.3 | 2.75 | 87.7 | 92.9 | 9.6 | 2.5 | 1.2 | 0.5 | 87.52 | 15.78 |
| 10691.0 | 2.1 | 2.74 | 93.1 | 96.2 | 9.2 | 0.0 | 0.6 | 0.3 | 87.42 | 15.77 |
| 10692.0 | 2.4 | 2.75 | 76.5 | 84.0 | 10.2 | 0.0 | 2.4 | 0.8 | 87.33 | 15.76 |
| 10693.0 | 2.7 | 2.76 | 70.0 | 75.2 | 12.1 | 0.0 | 3.6 | 0.6 | 87.22 | 15.73 |
| 10694.0 | 3.0 | 2.74 | 72.5 | 78.1 | 14.0 | 0.4 | 3.8 | 0.8 | 87.10 | 15.70 |
| 10695.0 | 4.3 | 2.74 | 77.2 | 84.7 | 15.3 | 0.0 | 3.5 | 1.1 | 86.95 | 15.66 |
| 10696.0 | 6.4 | 2.75 | 79.4 | 86.7 | 18.2 | 0.0 | 3.8 | 1.3 | 86.80 | 15.62 |
| 10697.0 | 6.2 | 2.73 | 72.3 | 77.8 | 21.5 | 1.0 | 6.0 | 1.2 | 86.61 | 15.58 |
| 10698.0 | 4.7 | 2.73 | 75.6 | 82.9 | 22.6 | 1.5 | 5.5 | 1.6 | 86.39 | 15.52 |
| 10699.0 | 5.8 | 2.75 | 76.8 | 84.3 | 22.0 | 2.3 | 5.1 | 1.6 | 86.16 | 15.46 |
| 10700.0 | 3.0 | 2.79 | 74.7 | 81.5 | 21.8 | 1.0 | 5.5 | 1.5 | 85.94 | 15.41 |
| 10701.0 | 1.6 | 2.77 | 73.6 | 79.8 | 21.1 | 0.7 | 5.6 | 1.3 | 85.72 | 15.36 |
| 10702.0 | 2.3 | 2.74 | 77.8 | 85.3 | 18.8 | 0.8 | 4.2 | 1.4 | 85.52 | 15.31 |

| DEPTH FEET | CLAY CONTENT % | AVERAGE MATRIX DENSITY GMS/CC | WATER SATURATIONS | | POROSITY | | HYDROCARBONS | | CUMULATIVE INTEGRATIONS | |
|---------------|----------------------|-------------------------------------|--------------------|-----------------|------------|----------------|--------------|--------------|----------------------------|-------|
| | | | VIRGIN ZONE (%) | INVADED ZONE | TOTAL % | SECONDARY % | TOTAL % | MCVABLE % | POP-FT | HC-FT |
| 10703.0 | 0.8 | 2.76 | 68.8 | 74.2 | 20.4 | 2.7 | 6.4 | 1.1 | 85.33 | 15.26 |
| 10704.0 | 0.3 | 2.76 | 74.0 | 80.4 | 19.3 | 1.3 | 5.0 | 1.2 | 85.13 | 15.20 |
| 10705.0 | 1.8 | 2.75 | 81.7 | 88.6 | 18.5 | 0.6 | 3.4 | 1.3 | 84.94 | 15.15 |
| 10706.0 | 3.0 | 2.74 | 77.9 | 85.4 | 19.8 | 1.3 | 4.4 | 1.5 | 84.75 | 15.12 |
| 10707.0 | 1.5 | 2.74 | 77.6 | 85.1 | 20.9 | 0.7 | 4.7 | 1.6 | 84.55 | 15.07 |
| 10708.0 | 0.1 | 2.77 | 68.7 | 74.1 | 23.9 | 0.3 | 7.5 | 1.3 | 84.34 | 15.02 |
| 10709.0 | 0.0 | 2.79 | 65.0 | 70.8 | 25.3 | 0.0 | 8.9 | 1.5 | 84.09 | 14.94 |
| 10710.0 | 0.0 | 2.75 | 69.8 | 75.0 | 23.7 | 0.0 | 7.1 | 1.2 | 83.84 | 14.86 |
| 10711.0 | 0.0 | 2.74 | 68.1 | 73.5 | 24.3 | 0.0 | 7.7 | 1.3 | 83.61 | 14.79 |
| 10712.0 | 0.0 | 2.72 | 68.8 | 74.2 | 24.2 | 0.0 | 7.5 | 1.3 | 83.36 | 14.71 |
| 10713.0 | 0.0 | 2.74 | 73.4 | 79.5 | 22.9 | 0.0 | 6.1 | 1.4 | 83.12 | 14.64 |
| 10714.0 | 0.0 | 2.75 | 73.8 | 80.1 | 22.7 | 1.0 | 5.9 | 1.4 | 82.90 | 14.58 |
| 10715.0 | 3.2 | 2.76 | 73.0 | 78.9 | 22.5 | 2.5 | 6.1 | 1.3 | 82.67 | 14.51 |
| 10716.0 | 2.6 | 2.77 | 73.7 | 79.9 | 22.6 | 1.0 | 5.9 | 1.4 | 82.45 | 14.46 |
| 10717.0 | 3.3 | 2.75 | 72.1 | 77.7 | 23.5 | 1.2 | 6.5 | 1.3 | 82.21 | 14.39 |
| 10718.0 | 1.8 | 2.74 | 70.1 | 75.3 | 24.5 | 0.9 | 7.3 | 1.3 | 81.98 | 14.33 |
| 10719.0 | 1.4 | 2.76 | 69.2 | 74.5 | 24.6 | 0.2 | 7.6 | 1.3 | 81.73 | 14.25 |
| 10720.0 | 1.8 | 2.79 | 65.6 | 71.4 | 25.4 | 1.1 | 8.7 | 1.5 | 81.48 | 14.17 |
| 10721.0 | 1.3 | 2.77 | 67.6 | 73.1 | 24.2 | 0.7 | 7.8 | 1.3 | 81.23 | 14.09 |
| 10722.0 | 0.0 | 2.75 | 67.5 | 73.1 | 24.2 | 1.2 | 7.9 | 1.3 | 80.99 | 14.01 |
| 10723.0 | 0.8 | 2.77 | 65.3 | 71.1 | 24.7 | 0.8 | 8.6 | 1.4 | 80.75 | 13.93 |
| 10724.0 | 0.2 | 2.78 | 60.0 | 66.4 | 26.6 | 0.0 | 10.7 | 1.7 | 80.50 | 13.84 |
| 10725.0 | 0.0 | 2.77 | 56.7 | 63.5 | 27.7 | 0.0 | 12.0 | 1.9 | 80.23 | 13.73 |
| 10726.0 | 1.9 | 2.77 | 59.7 | 66.2 | 26.0 | 0.0 | 10.5 | 1.7 | 79.96 | 13.62 |
| 10727.0 | 3.1 | 2.78 | 64.6 | 70.5 | 24.4 | 0.0 | 8.6 | 1.4 | 79.70 | 13.52 |
| 10728.0 | 4.1 | 2.77 | 66.4 | 72.1 | 24.0 | 0.7 | 8.1 | 1.4 | 79.46 | 13.43 |
| 10729.0 | 3.7 | 2.76 | 67.1 | 72.6 | 24.1 | 0.7 | 7.9 | 1.3 | 79.22 | 13.35 |
| 10730.0 | 1.5 | 2.75 | 68.6 | 74.0 | 24.2 | 0.7 | 7.6 | 1.3 | 78.97 | 13.27 |
| 10731.0 | 2.8 | 2.74 | 71.2 | 76.4 | 23.0 | 1.1 | 6.6 | 1.2 | 78.73 | 13.20 |
| 10732.0 | 1.8 | 2.76 | 70.6 | 75.8 | 23.3 | 1.6 | 6.8 | 1.2 | 78.50 | 13.13 |
| 10733.0 | 1.6 | 2.78 | 74.5 | 81.2 | 22.4 | 1.6 | 5.7 | 1.5 | 78.27 | 13.06 |
| 10734.0 | 4.9 | 2.76 | 78.3 | 85.8 | 21.6 | 2.7 | 4.7 | 1.6 | 78.05 | 13.01 |
| 10735.0 | 3.0 | 2.74 | 73.9 | 80.3 | 23.4 | 2.2 | 6.1 | 1.5 | 77.84 | 12.96 |
| 10736.0 | 0.0 | 2.78 | 72.6 | 78.3 | 25.3 | 0.8 | 6.9 | 1.4 | 77.60 | 12.90 |
| 10737.0 | 0.0 | 2.78 | 72.9 | 78.7 | 26.1 | 0.9 | 7.1 | 1.5 | 77.34 | 12.83 |
| 10738.0 | 0.0 | 2.78 | 71.8 | 77.2 | 26.3 | 1.0 | 7.4 | 1.4 | 77.08 | 12.75 |
| 10739.0 | 0.0 | 2.77 | 72.1 | 77.6 | 25.6 | 1.2 | 7.2 | 1.4 | 76.82 | 12.68 |
| 10740.0 | 0.0 | 2.78 | 71.9 | 77.3 | 25.0 | 1.1 | 7.0 | 1.4 | 76.56 | 12.61 |
| 10741.0 | 0.0 | 2.78 | 72.1 | 77.6 | 24.2 | 1.6 | 6.8 | 1.3 | 76.32 | 12.54 |
| 10742.0 | 0.0 | 2.75 | 73.7 | 79.9 | 22.7 | 1.6 | 6.0 | 1.4 | 76.08 | 12.48 |
| 10743.0 | 1.8 | 2.78 | 73.7 | 80.0 | 21.9 | 1.6 | 5.7 | 1.4 | 75.85 | 12.42 |
| 10744.0 | 0.5 | 2.79 | 74.5 | 81.3 | 21.8 | 0.9 | 5.6 | 1.5 | 75.64 | 12.36 |
| 10745.0 | 4.9 | 2.76 | 76.5 | 83.9 | 20.7 | 2.6 | 4.9 | 1.5 | 75.42 | 12.31 |
| 10746.0 | 5.0 | 2.76 | 91.3 | 95.1 | 18.6 | 0.5 | 1.6 | 0.7 | 75.22 | 12.27 |
| 10747.0 | 4.9 | 2.77 | 82.7 | 89.4 | 19.6 | 1.2 | 3.4 | 1.3 | 75.03 | 12.25 |
| 10748.0 | 4.6 | 2.78 | 75.8 | 83.1 | 20.6 | 1.8 | 5.0 | 1.5 | 74.83 | 12.21 |
| 10749.0 | 4.2 | 2.78 | 72.9 | 78.7 | 21.2 | 2.1 | 5.7 | 1.2 | 74.63 | 12.17 |
| 10750.0 | 3.6 | 2.77 | 73.7 | 79.9 | 20.9 | 1.4 | 5.5 | 1.3 | 74.42 | 12.11 |

| DEPTH FEET | CLAY CONTENT % | AVERAGE MATRIX DENSITY GMS/CC | WATER SATURATIONS | | POROSITY | | HYDROCARBONS | | CUMULATIVE INTEGRATIONS | |
|---------------|----------------------|-------------------------------------|--------------------|-----------------|------------|----------------|--------------|--------------|----------------------------|-------|
| | | | VIRGIN ZONE (%) | INVADED ZONE | TOTAL % | SECONDARY % | TOTAL % | MOVABLE % | FOR-FT | HC-FT |
| 10751.0 | 3.6 | 2.79 | 70.0 | 75.1 | 21.8 | 2.1 | 6.6 | 1.1 | 74.21 | 12.05 |
| 10752.0 | 5.2 | 2.78 | 73.5 | 79.7 | 20.4 | 2.0 | 5.4 | 1.3 | 73.99 | 11.99 |
| 10753.0 | 4.7 | 2.77 | 83.6 | 90.1 | 18.8 | 0.9 | 3.1 | 1.2 | 73.80 | 11.95 |
| 10754.0 | 3.3 | 2.79 | 83.9 | 90.3 | 19.0 | 0.6 | 3.1 | 1.2 | 73.61 | 11.91 |
| 10755.0 | 3.1 | 2.76 | 84.1 | 90.4 | 19.2 | 0.6 | 3.0 | 1.2 | 73.41 | 11.88 |
| 10756.0 | 3.1 | 2.77 | 74.9 | 81.7 | 20.7 | 1.7 | 5.2 | 1.4 | 73.22 | 11.84 |
| 10757.0 | 3.3 | 2.73 | 82.6 | 89.3 | 19.4 | 1.9 | 3.4 | 1.3 | 73.01 | 11.79 |
| 10758.0 | 4.2 | 2.76 | 84.5 | 90.7 | 18.9 | 1.8 | 2.9 | 1.2 | 72.82 | 11.76 |
| 10759.0 | 5.9 | 2.76 | 86.0 | 91.8 | 18.5 | 2.2 | 2.6 | 1.1 | 72.63 | 11.73 |
| 10760.0 | 7.3 | 2.75 | 88.6 | 93.4 | 18.1 | 1.9 | 2.1 | 0.9 | 72.45 | 11.71 |
| 10761.0 | 4.7 | 2.76 | 82.5 | 89.2 | 19.3 | 1.1 | 3.4 | 1.3 | 72.26 | 11.68 |
| 10762.0 | 3.5 | 2.79 | 73.3 | 79.4 | 21.2 | 2.0 | 5.6 | 1.3 | 72.06 | 11.64 |
| 10763.0 | 6.7 | 2.77 | 79.0 | 86.4 | 19.5 | 2.5 | 4.1 | 1.4 | 71.86 | 11.59 |
| 10764.0 | 3.8 | 2.74 | 78.9 | 86.4 | 20.0 | 2.5 | 4.2 | 1.5 | 71.66 | 11.54 |
| 10765.0 | 2.8 | 2.75 | 80.1 | 87.4 | 20.2 | 2.0 | 4.0 | 1.5 | 71.46 | 11.50 |
| 10766.0 | 2.1 | 2.74 | 76.7 | 84.2 | 21.2 | 2.6 | 4.9 | 1.6 | 71.26 | 11.46 |
| 10767.0 | 1.3 | 2.75 | 76.3 | 83.7 | 21.7 | 1.7 | 5.1 | 1.6 | 71.04 | 11.41 |
| 10768.0 | 0.7 | 2.77 | 71.4 | 76.7 | 23.2 | 1.6 | 6.6 | 1.2 | 70.82 | 11.35 |
| 10769.0 | 0.3 | 2.78 | 71.4 | 76.7 | 22.9 | 1.8 | 6.6 | 1.2 | 70.59 | 11.29 |
| 10770.0 | 1.8 | 2.79 | 67.8 | 73.3 | 23.2 | 3.7 | 7.5 | 1.3 | 70.36 | 11.22 |
| 10771.0 | 1.4 | 2.78 | 68.9 | 74.2 | 22.4 | 3.1 | 7.0 | 1.2 | 70.13 | 11.15 |
| 10772.0 | 0.0 | 2.78 | 70.7 | 75.8 | 21.8 | 2.1 | 6.4 | 1.1 | 69.91 | 11.07 |
| 10773.0 | 0.0 | 2.77 | 78.8 | 86.2 | 20.3 | 0.8 | 4.3 | 1.5 | 69.69 | 11.02 |
| 10774.0 | 0.0 | 2.76 | 77.9 | 85.4 | 20.9 | 0.3 | 4.6 | 1.6 | 69.49 | 10.97 |
| 10775.0 | 0.0 | 2.77 | 75.6 | 82.9 | 21.9 | 0.9 | 5.3 | 1.6 | 69.27 | 10.92 |
| 10776.0 | 0.0 | 2.78 | 74.3 | 80.9 | 22.6 | 1.5 | 5.8 | 1.5 | 69.05 | 10.87 |
| 10777.0 | 0.0 | 2.77 | 72.2 | 77.8 | 23.1 | 2.1 | 6.4 | 1.3 | 68.83 | 10.81 |
| 10778.0 | 1.4 | 2.79 | 72.2 | 77.8 | 22.7 | 2.6 | 6.3 | 1.3 | 68.60 | 10.75 |
| 10779.0 | 0.6 | 2.78 | 70.5 | 75.7 | 23.2 | 5.6 | 6.8 | 1.2 | 68.37 | 10.68 |
| 10780.0 | 1.5 | 2.78 | 73.4 | 79.5 | 22.2 | 6.1 | 5.9 | 1.4 | 68.14 | 10.62 |
| 10781.0 | 2.5 | 2.78 | 75.6 | 82.9 | 21.7 | 3.3 | 5.3 | 1.6 | 67.92 | 10.56 |
| 10782.0 | 0.7 | 2.79 | 76.5 | 83.9 | 22.2 | 1.5 | 5.2 | 1.6 | 67.70 | 10.50 |
| 10783.0 | 0.1 | 2.77 | 78.0 | 85.5 | 22.5 | 1.2 | 4.9 | 1.7 | 67.48 | 10.46 |
| 10784.0 | 2.7 | 2.74 | 81.1 | 88.2 | 21.8 | 1.9 | 4.1 | 1.5 | 67.26 | 10.41 |
| 10785.0 | 3.8 | 2.73 | 83.6 | 90.0 | 21.1 | 1.9 | 3.5 | 1.4 | 67.04 | 10.37 |
| 10786.0 | 2.8 | 2.75 | 77.8 | 85.3 | 21.8 | 2.1 | 4.8 | 1.6 | 66.83 | 10.34 |
| 10787.0 | 1.2 | 2.79 | 74.6 | 81.3 | 22.5 | 1.9 | 5.7 | 1.5 | 66.61 | 10.28 |
| 10788.0 | 1.3 | 2.77 | 80.7 | 87.9 | 21.0 | 0.6 | 4.0 | 1.5 | 66.39 | 10.23 |
| 10789.0 | 1.0 | 2.75 | 74.4 | 81.0 | 21.9 | 1.7 | 5.6 | 1.5 | 66.17 | 10.18 |
| 10790.0 | 0.2 | 2.77 | 75.2 | 82.3 | 21.8 | 1.1 | 5.4 | 1.5 | 65.96 | 10.13 |
| 10791.0 | 0.4 | 2.77 | 81.4 | 88.4 | 20.8 | 1.0 | 3.9 | 1.5 | 65.74 | 10.08 |
| 10792.0 | 0.9 | 2.74 | 83.9 | 90.3 | 20.5 | 0.7 | 3.3 | 1.3 | 65.54 | 10.05 |
| 10793.0 | 1.8 | 2.74 | 86.6 | 92.1 | 20.4 | 0.4 | 2.7 | 1.1 | 65.33 | 10.01 |
| 10794.0 | 0.0 | 2.72 | 83.4 | 89.9 | 21.2 | 0.0 | 3.5 | 1.4 | 65.13 | 9.99 |
| 10795.0 | 0.0 | 2.76 | 74.6 | 81.3 | 22.6 | 0.7 | 5.7 | 1.5 | 64.91 | 9.95 |
| 10796.0 | 0.0 | 2.78 | 74.1 | 80.6 | 22.6 | 0.8 | 5.8 | 1.5 | 64.69 | 9.89 |
| 10797.0 | 0.7 | 2.76 | 79.9 | 87.2 | 21.4 | 1.3 | 4.3 | 1.6 | 64.46 | 9.83 |
| 10798.0 | 0.0 | 2.79 | 73.0 | 79.0 | 23.2 | 1.8 | 6.2 | 1.4 | 64.24 | 9.78 |

| DEPTH FEET | CLAY CONTENT % | AVERAGE MATRIX DENSITY GMS/CC | WATER SATURATIONS | | POROSITY | | HYDROCARBONS | | CUMULATIVE INTEGRATIONS | |
|---------------|----------------------|-------------------------------------|--------------------|-----------------|------------|----------------|--------------|--------------|----------------------------|-------|
| | | | VIRGIN ZONE (%) | INVADED ZONE | TOTAL % | SECONDARY % | TOTAL % | MOVABLE % | FOR-FT | HC-FT |
| 10799.0 | 0.0 | 2.75 | 81.9 | 88.8 | 21.9 | 0.1 | 4.0 | 1.5 | 64.02 | 9.72 |
| 10800.0 | 0.0 | 2.74 | 87.6 | 92.8 | 21.7 | 0.0 | 2.7 | 1.1 | 63.80 | 9.69 |
| 10801.0 | 0.3 | 2.72 | 85.2 | 91.2 | 22.5 | 0.5 | 3.3 | 1.3 | 63.58 | 9.66 |
| 10802.0 | 0.0 | 2.76 | 74.9 | 81.8 | 24.5 | 1.2 | 6.1 | 1.7 | 63.35 | 9.62 |
| 10803.0 | 0.0 | 2.77 | 72.4 | 78.0 | 24.9 | 1.4 | 6.9 | 1.4 | 63.10 | 9.56 |
| 10804.0 | 0.0 | 2.79 | 75.7 | 83.0 | 23.3 | 0.7 | 5.7 | 1.7 | 62.86 | 9.49 |
| 10805.0 | 0.0 | 2.78 | 87.5 | 92.7 | 21.0 | 0.0 | 2.6 | 1.1 | 62.63 | 9.44 |
| 10806.0 | 0.0 | 2.77 | 89.6 | 94.1 | 20.3 | 0.0 | 2.1 | 0.9 | 62.43 | 9.42 |
| 10807.0 | 0.0 | 2.78 | 74.1 | 80.6 | 22.4 | 1.1 | 5.8 | 1.5 | 62.22 | 9.39 |
| 10808.0 | 0.1 | 2.75 | 75.8 | 83.2 | 21.8 | 1.1 | 5.3 | 1.6 | 61.99 | 9.34 |
| 10809.0 | 0.0 | 2.76 | 78.6 | 86.1 | 21.1 | 0.8 | 4.5 | 1.6 | 61.78 | 9.28 |
| 10810.0 | 0.3 | 2.73 | 87.1 | 92.5 | 19.7 | 0.3 | 2.5 | 1.1 | 61.57 | 9.24 |
| 10811.0 | 0.0 | 2.72 | 79.5 | 86.8 | 19.8 | 1.3 | 4.1 | 1.5 | 61.37 | 9.22 |
| 10812.0 | 0.0 | 2.72 | 87.0 | 92.4 | 18.4 | 1.4 | 2.4 | 1.0 | 61.18 | 9.18 |
| 10813.0 | 0.0 | 2.70 | 85.6 | 91.5 | 18.2 | 3.1 | 2.6 | 1.1 | 61.00 | 9.16 |
| 10814.0 | 0.0 | 2.71 | 72.4 | 78.1 | 20.0 | 3.6 | 5.5 | 1.1 | 60.81 | 9.12 |
| 10815.0 | 4.7 | 2.74 | 72.7 | 78.5 | 19.2 | 2.3 | 5.2 | 1.1 | 60.61 | 9.06 |
| 10816.0 | 4.3 | 2.77 | 77.4 | 84.9 | 18.7 | 1.4 | 4.2 | 1.4 | 60.42 | 9.01 |
| 10817.0 | 2.9 | 2.78 | 75.4 | 82.6 | 19.8 | 2.1 | 4.9 | 1.4 | 60.23 | 8.97 |
| 10818.0 | 1.1 | 2.79 | 75.4 | 82.6 | 20.6 | 1.2 | 5.1 | 1.5 | 60.03 | 8.92 |
| 10819.0 | 0.2 | 2.74 | 89.3 | 93.9 | 19.5 | 0.0 | 2.1 | 0.9 | 59.83 | 8.88 |
| 10820.0 | 0.5 | 2.72 | 97.5 | 98.7 | 18.8 | 0.0 | 0.5 | 0.2 | 59.63 | 8.86 |
| 10821.0 | 2.1 | 2.75 | 90.1 | 94.4 | 20.0 | 1.0 | 2.0 | 0.9 | 59.45 | 8.86 |
| 10822.0 | 3.3 | 2.75 | 80.9 | 88.0 | 21.1 | 1.8 | 4.0 | 1.5 | 59.25 | 8.84 |
| 10823.0 | 0.3 | 2.79 | 75.7 | 83.0 | 22.6 | 1.4 | 5.5 | 1.6 | 59.03 | 8.79 |
| 10824.0 | 0.0 | 2.78 | 78.9 | 86.3 | 22.0 | 0.9 | 4.6 | 1.6 | 58.81 | 8.74 |
| 10825.0 | 0.5 | 2.73 | 78.7 | 86.1 | 21.8 | 1.4 | 4.6 | 1.6 | 58.59 | 8.70 |
| 10826.0 | 0.0 | 2.76 | 78.5 | 85.9 | 21.8 | 1.0 | 4.7 | 1.6 | 58.37 | 8.66 |
| 10827.0 | 0.0 | 2.79 | 79.7 | 87.0 | 21.7 | 0.8 | 4.4 | 1.6 | 58.16 | 8.61 |
| 10828.0 | 0.0 | 2.79 | 81.6 | 88.6 | 21.2 | 0.0 | 3.9 | 1.5 | 57.95 | 8.58 |
| 10829.0 | 0.0 | 2.78 | 78.4 | 85.8 | 22.0 | 0.8 | 4.8 | 1.6 | 57.73 | 8.54 |
| 10830.0 | 0.0 | 2.78 | 77.1 | 84.6 | 22.6 | 1.4 | 5.2 | 1.7 | 57.52 | 8.50 |
| 10831.0 | 0.0 | 2.73 | 82.2 | 89.0 | 22.2 | 1.3 | 3.9 | 1.5 | 57.29 | 8.45 |
| 10832.0 | 2.9 | 2.71 | 79.7 | 87.0 | 22.0 | 1.9 | 4.5 | 1.6 | 57.07 | 8.41 |
| 10833.0 | 4.6 | 2.71 | 79.3 | 86.7 | 21.0 | 1.4 | 4.3 | 1.5 | 56.85 | 8.36 |
| 10834.0 | 3.3 | 2.74 | 77.3 | 84.8 | 20.0 | 1.4 | 4.5 | 1.5 | 56.64 | 8.32 |
| 10835.0 | 2.4 | 2.72 | 80.7 | 87.9 | 18.1 | 2.2 | 3.5 | 1.3 | 56.44 | 8.27 |
| 10836.0 | 5.8 | 2.75 | 96.2 | 98.0 | 14.9 | 2.1 | 0.6 | 0.3 | 56.27 | 8.25 |
| 10837.0 | 4.8 | 2.72 | 95.5 | 97.6 | 15.6 | 2.1 | 0.7 | 0.3 | 56.13 | 8.24 |
| 10838.0 | 0.7 | 2.73 | 80.8 | 88.0 | 19.0 | 0.6 | 3.7 | 1.4 | 55.96 | 8.23 |
| 10839.0 | 0.9 | 2.75 | 83.1 | 89.7 | 20.2 | 0.0 | 3.4 | 1.3 | 55.77 | 8.19 |
| 10840.0 | 0.4 | 2.73 | 89.7 | 94.1 | 21.2 | 0.3 | 2.2 | 0.9 | 55.56 | 8.16 |
| 10841.0 | 1.0 | 2.71 | 93.3 | 96.3 | 20.9 | 0.0 | 1.4 | 0.6 | 55.35 | 8.14 |
| 10842.0 | 2.0 | 2.74 | 80.7 | 87.9 | 22.3 | 0.6 | 4.3 | 1.6 | 55.14 | 8.12 |
| 10843.0 | 0.0 | 2.74 | 81.3 | 88.3 | 21.9 | 0.8 | 4.1 | 1.5 | 54.91 | 8.08 |
| 10844.0 | 0.0 | 2.73 | 82.0 | 88.9 | 21.1 | 0.8 | 3.8 | 1.5 | 54.70 | 8.04 |
| 10845.0 | 0.0 | 2.73 | 80.6 | 87.8 | 20.9 | 0.7 | 4.1 | 1.5 | 54.48 | 7.99 |
| 10846.0 | 0.9 | 2.74 | 77.9 | 85.4 | 20.6 | 1.6 | 4.5 | 1.5 | 54.28 | 7.95 |

| DEPTH FEET | CLAY CONTENT % | AVERAGE MATRIX DENSITY GMS/CC | WATER SATURATIONS | | POROSITY | | HYDROCARBONS | | CUMULATIVE INTEGRATIONS | |
|---------------|----------------------|-------------------------------------|--------------------|-----------------|------------|----------------|--------------|--------------|----------------------------|-------|
| | | | VIRGIN ZONE (%) | INVADED ZONE | TOTAL % | SECONDARY % | TOTAL % | MOVABLE % | PGF-FT | HC-FT |
| 10847.0 | 2.6 | 2.71 | 86.6 | 92.1 | 19.4 | 1.8 | 2.6 | 1.1 | 54.08 | 7.91 |
| 10848.0 | 0.0 | 2.71 | 74.4 | 81.0 | 22.1 | 2.2 | 5.7 | 1.5 | 53.87 | 7.87 |
| 10849.0 | 0.0 | 2.72 | 75.2 | 82.2 | 22.5 | 1.6 | 5.6 | 1.6 | 53.65 | 7.82 |
| 10850.0 | 1.3 | 2.74 | 75.9 | 83.2 | 22.4 | 1.6 | 5.4 | 1.6 | 53.43 | 7.76 |
| 10851.0 | 2.5 | 2.74 | 81.5 | 88.5 | 21.2 | 1.2 | 3.9 | 1.5 | 53.21 | 7.71 |
| 10852.0 | 0.7 | 2.75 | 77.2 | 84.7 | 21.8 | 1.4 | 5.0 | 1.6 | 52.99 | 7.67 |
| 10853.0 | 3.6 | 2.73 | 84.9 | 91.0 | 20.2 | 2.0 | 3.0 | 1.2 | 52.78 | 7.62 |
| 10854.0 | 3.3 | 2.74 | 87.4 | 92.6 | 20.3 | 1.7 | 2.6 | 1.1 | 52.57 | 7.59 |
| 10855.0 | 1.2 | 2.74 | 85.0 | 91.1 | 21.5 | 0.9 | 3.2 | 1.3 | 52.37 | 7.57 |
| 10856.0 | 0.0 | 2.72 | 81.4 | 88.4 | 22.8 | 1.2 | 4.2 | 1.6 | 52.15 | 7.53 |
| 10857.0 | 0.0 | 2.73 | 84.0 | 90.4 | 22.8 | 0.3 | 3.7 | 1.4 | 51.92 | 7.49 |
| 10858.0 | 0.0 | 2.73 | 84.3 | 90.5 | 22.9 | 0.8 | 3.6 | 1.4 | 51.69 | 7.46 |
| 10859.0 | 0.4 | 2.77 | 80.0 | 87.3 | 23.5 | 2.0 | 4.7 | 1.7 | 51.46 | 7.41 |
| 10860.0 | 1.3 | 2.77 | 88.1 | 93.1 | 22.4 | 1.1 | 2.7 | 1.1 | 51.23 | 7.38 |
| 10861.0 | 0.0 | 2.78 | 79.0 | 86.4 | 24.4 | 0.7 | 5.1 | 1.8 | 51.00 | 7.34 |
| 10862.0 | 0.0 | 2.77 | 77.0 | 84.5 | 25.3 | 0.9 | 5.8 | 1.9 | 50.76 | 7.29 |
| 10863.0 | 0.0 | 2.78 | 77.4 | 84.9 | 25.7 | 0.5 | 5.8 | 1.9 | 50.50 | 7.23 |
| 10864.0 | 0.0 | 2.75 | 86.7 | 92.2 | 24.1 | 0.0 | 3.2 | 1.3 | 50.25 | 7.17 |
| 10865.0 | 0.0 | 2.77 | 78.0 | 85.5 | 25.3 | 1.5 | 5.6 | 1.9 | 50.00 | 7.14 |
| 10866.0 | 2.8 | 2.75 | 82.6 | 89.3 | 23.8 | 1.9 | 4.1 | 1.6 | 49.75 | 7.08 |
| 10867.0 | 4.8 | 2.72 | 87.8 | 92.9 | 22.2 | 1.4 | 2.7 | 1.1 | 49.52 | 7.05 |
| 10868.0 | 0.3 | 2.75 | 79.7 | 87.0 | 23.6 | 0.5 | 4.8 | 1.7 | 49.30 | 7.02 |
| 10869.0 | 0.0 | 2.76 | 75.7 | 83.0 | 23.8 | 1.1 | 5.8 | 1.7 | 49.06 | 6.96 |
| 10870.0 | 0.0 | 2.74 | 75.7 | 83.0 | 23.3 | 1.0 | 5.7 | 1.7 | 48.82 | 6.91 |
| 10871.0 | 1.0 | 2.77 | 75.2 | 82.3 | 23.2 | 1.1 | 5.8 | 1.6 | 48.59 | 6.85 |
| 10872.0 | 1.9 | 2.74 | 82.6 | 89.3 | 22.1 | 0.5 | 3.9 | 1.5 | 48.36 | 6.80 |
| 10873.0 | 0.0 | 2.75 | 78.5 | 86.0 | 23.3 | 0.3 | 5.0 | 1.7 | 48.14 | 6.76 |
| 10874.0 | 0.0 | 2.74 | 75.2 | 82.3 | 24.4 | 1.0 | 6.1 | 1.7 | 47.90 | 6.71 |
| 10875.0 | 0.0 | 2.72 | 82.0 | 88.8 | 23.4 | 0.3 | 4.2 | 1.6 | 47.66 | 6.65 |
| 10876.0 | 2.2 | 2.71 | 87.8 | 92.9 | 22.4 | 0.3 | 2.7 | 1.2 | 47.43 | 6.62 |
| 10877.0 | 0.0 | 2.74 | 77.6 | 85.1 | 24.5 | 0.5 | 5.5 | 1.8 | 47.20 | 6.58 |
| 10878.0 | 0.0 | 2.74 | 78.6 | 86.0 | 24.5 | 0.1 | 5.2 | 1.8 | 46.95 | 6.52 |
| 10879.0 | 0.0 | 2.75 | 79.1 | 86.5 | 24.6 | 0.1 | 5.1 | 1.8 | 46.71 | 6.47 |
| 10880.0 | 0.0 | 2.73 | 83.8 | 90.2 | 24.1 | 0.5 | 3.9 | 1.5 | 46.47 | 6.43 |
| 10881.0 | 0.0 | 2.75 | 84.5 | 90.7 | 23.9 | 0.7 | 3.7 | 1.5 | 46.22 | 6.38 |
| 10882.0 | 0.5 | 2.76 | 80.3 | 87.5 | 24.0 | 1.7 | 4.7 | 1.7 | 45.98 | 6.34 |
| 10883.0 | 0.5 | 2.77 | 79.2 | 86.6 | 23.4 | 1.8 | 4.9 | 1.7 | 45.75 | 6.29 |
| 10884.0 | 2.9 | 2.72 | 85.5 | 91.4 | 21.1 | 2.1 | 3.0 | 1.2 | 45.52 | 6.25 |
| 10885.0 | 2.1 | 2.76 | 77.3 | 84.8 | 21.6 | 2.0 | 4.9 | 1.6 | 45.31 | 6.22 |
| 10886.0 | 4.4 | 2.76 | 83.3 | 89.9 | 19.8 | 1.7 | 3.3 | 1.3 | 45.10 | 6.18 |
| 10887.0 | 3.9 | 2.74 | 87.4 | 92.7 | 18.7 | 0.9 | 2.3 | 1.0 | 44.90 | 6.14 |
| 10888.0 | 0.1 | 2.76 | 80.3 | 87.6 | 19.3 | 0.6 | 3.8 | 1.4 | 44.72 | 6.12 |
| 10889.0 | 2.5 | 2.75 | 96.6 | 98.2 | 16.3 | 0.4 | 0.5 | 0.3 | 44.53 | 6.09 |
| 10890.0 | 1.4 | 2.74 | 93.3 | 96.3 | 16.6 | 0.5 | 1.1 | 0.5 | 44.37 | 6.09 |
| 10891.0 | 0.2 | 2.74 | 91.5 | 95.2 | 17.2 | 0.0 | 1.5 | 0.6 | 44.20 | 6.08 |
| 10892.0 | 0.0 | 2.74 | 86.0 | 91.7 | 18.4 | 0.0 | 2.6 | 1.1 | 44.03 | 6.06 |
| 10893.0 | 1.2 | 2.75 | 78.2 | 85.7 | 19.7 | 0.7 | 4.3 | 1.5 | 43.84 | 6.03 |
| 10894.0 | 3.6 | 2.75 | 78.4 | 85.9 | 19.4 | 1.5 | 4.2 | 1.5 | 43.65 | 5.99 |

| DEPTH FEET | CLAY CONTENT % | AVERAGE MATRIX DENSITY GMS/CC | WATER SATURATIONS | | POROSITY | | HYDROCARBONS | | CUMULATIVE INTEGRATIONS | |
|---------------|----------------------|-------------------------------------|--------------------|-----------------|------------|----------------|--------------|--------------|----------------------------|-------|
| | | | VIRGIN ZONE (%) | INVADED ZONE | TOTAL % | SECONDARY % | TOTAL % | MCVABLE % | POR-FT | HC-FT |
| 10895.0 | 0.0 | 2.76 | 78.7 | 86.2 | 19.8 | 1.5 | 4.2 | 1.5 | 43.45 | 5.94 |
| 10896.0 | 0.0 | 2.75 | 86.2 | 91.9 | 18.7 | 1.0 | 2.6 | 1.1 | 43.25 | 5.90 |
| 10897.0 | 1.0 | 2.74 | 86.7 | 92.2 | 18.3 | 1.4 | 2.4 | 1.0 | 43.07 | 5.88 |
| 10898.0 | 0.1 | 2.74 | 84.0 | 90.3 | 18.4 | 1.8 | 2.9 | 1.2 | 42.88 | 5.86 |
| 10899.0 | 0.0 | 2.74 | 88.8 | 93.6 | 17.6 | 1.8 | 2.0 | 0.8 | 42.70 | 5.83 |
| 10900.0 | 0.0 | 2.76 | 93.7 | 96.5 | 16.7 | 1.5 | 1.1 | 0.5 | 42.53 | 5.81 |
| 10901.0 | 1.5 | 2.76 | 96.3 | 98.0 | 15.7 | 1.7 | 0.6 | 0.3 | 42.36 | 5.80 |
| 10902.0 | 6.1 | 2.75 | 99.4 | 99.7 | 13.7 | 1.5 | 0.1 | 0.0 | 42.21 | 5.80 |
| 10903.0 | 3.6 | 2.75 | 94.1 | 96.8 | 14.5 | 0.7 | 0.9 | 0.4 | 42.07 | 5.79 |
| 10904.0 | 0.0 | 2.75 | 92.6 | 95.9 | 14.6 | 0.4 | 1.1 | 0.5 | 41.93 | 5.78 |
| 10905.0 | 0.0 | 2.76 | 94.4 | 96.9 | 13.9 | 0.1 | 0.8 | 0.4 | 41.78 | 5.78 |
| 10906.0 | 0.0 | 2.76 | 78.9 | 86.4 | 15.3 | 0.8 | 3.2 | 1.1 | 41.64 | 5.76 |
| 10907.0 | 0.0 | 2.77 | 76.2 | 83.6 | 16.1 | 1.0 | 3.8 | 1.2 | 41.48 | 5.73 |
| 10908.0 | 0.4 | 2.75 | 92.3 | 95.7 | 15.3 | 0.4 | 1.2 | 0.5 | 41.33 | 5.70 |
| 10909.0 | 5.9 | 2.71 | 99.8 | 99.9 | 13.7 | 2.2 | 0.0 | 0.0 | 41.18 | 5.69 |
| 10910.0 | 4.5 | 2.72 | 92.4 | 95.7 | 16.2 | 2.6 | 1.2 | 0.5 | 41.04 | 5.69 |
| 10911.0 | 1.6 | 2.74 | 81.4 | 88.4 | 18.7 | 2.0 | 3.5 | 1.3 | 40.87 | 5.67 |
| 10912.0 | 0.0 | 2.77 | 76.7 | 84.1 | 20.0 | 0.9 | 4.7 | 1.5 | 40.68 | 5.63 |
| 10913.0 | 0.0 | 2.75 | 79.6 | 86.9 | 19.7 | 0.6 | 4.0 | 1.4 | 40.47 | 5.58 |
| 10914.0 | 0.0 | 2.76 | 78.3 | 85.8 | 19.3 | 0.8 | 4.2 | 1.4 | 40.28 | 5.54 |
| 10915.0 | 0.6 | 2.75 | 73.0 | 78.9 | 18.9 | 2.1 | 5.1 | 1.1 | 40.09 | 5.50 |
| 10916.0 | 3.6 | 2.71 | 83.8 | 90.2 | 15.6 | 2.4 | 2.5 | 1.0 | 39.90 | 5.45 |
| 10917.0 | 3.7 | 2.71 | 94.0 | 96.7 | 14.0 | 2.1 | 0.8 | 0.4 | 39.75 | 5.43 |
| 10918.0 | 2.1 | 2.75 | 80.0 | 87.3 | 15.7 | 1.5 | 3.1 | 1.1 | 39.61 | 5.42 |
| 10919.0 | 1.3 | 2.77 | 71.2 | 76.5 | 18.0 | 1.4 | 5.2 | 0.9 | 39.45 | 5.38 |
| 10920.0 | 0.0 | 2.77 | 66.3 | 72.0 | 20.4 | 2.3 | 6.9 | 1.2 | 39.26 | 5.32 |
| 10921.0 | 0.0 | 2.78 | 64.5 | 70.4 | 21.3 | 2.8 | 7.6 | 1.3 | 39.05 | 5.25 |
| 10922.0 | 0.0 | 2.76 | 70.9 | 76.1 | 19.1 | 1.3 | 5.6 | 1.0 | 38.84 | 5.18 |
| 10923.0 | 0.0 | 2.75 | 73.3 | 79.4 | 17.6 | 0.7 | 4.7 | 1.1 | 38.66 | 5.13 |
| 10924.0 | 0.7 | 2.75 | 71.4 | 76.7 | 16.9 | 1.3 | 4.8 | 0.9 | 38.49 | 5.08 |
| 10925.0 | 1.3 | 2.75 | 73.1 | 79.1 | 15.7 | 1.9 | 4.2 | 0.9 | 38.32 | 5.03 |
| 10926.0 | 0.0 | 2.74 | 91.4 | 95.2 | 13.3 | 0.8 | 1.1 | 0.5 | 38.17 | 5.00 |
| 10927.0 | 0.0 | 2.73 | 87.5 | 92.7 | 13.6 | 1.9 | 1.7 | 0.7 | 38.03 | 4.99 |
| 10928.0 | 0.0 | 2.76 | 82.2 | 89.0 | 14.2 | 0.7 | 2.5 | 1.0 | 37.89 | 4.96 |
| 10929.0 | 0.0 | 2.76 | 76.3 | 83.7 | 15.0 | 0.7 | 3.6 | 1.1 | 37.75 | 4.94 |
| 10930.0 | 0.5 | 2.74 | 85.1 | 91.1 | 14.4 | 0.5 | 2.2 | 0.9 | 37.60 | 4.90 |
| 10931.0 | 0.5 | 2.74 | 92.3 | 95.7 | 14.4 | 1.6 | 1.1 | 0.5 | 37.45 | 4.88 |
| 10932.0 | 0.1 | 2.73 | 100.0 | 100.0 | 13.2 | 0.6 | 0.0 | 0.0 | 37.32 | 4.87 |
| 10933.0 | 0.7 | 2.73 | 96.7 | 98.2 | 15.3 | 1.1 | 0.5 | 0.2 | 37.18 | 4.87 |
| 10934.0 | 0.0 | 2.75 | 87.1 | 92.4 | 17.2 | 0.4 | 2.2 | 0.9 | 37.02 | 4.86 |
| 10935.0 | 0.0 | 2.72 | 91.0 | 94.9 | 16.9 | 0.5 | 1.5 | 0.7 | 36.85 | 4.84 |
| 10936.0 | 0.0 | 2.71 | 95.6 | 97.6 | 15.6 | 0.7 | 0.7 | 0.3 | 36.68 | 4.83 |
| 10937.0 | 0.0 | 2.73 | 92.9 | 96.0 | 14.5 | 0.7 | 1.0 | 0.5 | 36.53 | 4.82 |
| 10938.0 | 0.0 | 2.75 | 89.8 | 94.2 | 13.5 | 0.1 | 1.4 | 0.6 | 36.39 | 4.81 |
| 10939.0 | 0.3 | 2.75 | 92.5 | 95.8 | 11.6 | 0.0 | 0.9 | 0.4 | 36.26 | 4.79 |
| 10940.0 | 0.0 | 2.73 | 96.0 | 97.8 | 10.2 | 0.0 | 0.4 | 0.2 | 36.15 | 4.79 |
| 10941.0 | 2.0 | 2.73 | 98.2 | 99.0 | 9.1 | 0.0 | 0.2 | 0.1 | 36.04 | 4.78 |
| 10942.0 | 1.7 | 2.76 | 78.9 | 86.3 | 10.2 | 0.0 | 2.1 | 0.8 | 35.95 | 4.78 |

| DEPTH FEET | CLAY CONTENT % | AVERAGE MATRIX DENSITY GMS/CC | WATER SATURATIONS | | POROSITY | | HYDROCARBONS | | CUMULATIVE INTEGRATIONS | |
|---------------|----------------------|-------------------------------------|--------------------|-----------------|------------|----------------|--------------|--------------|----------------------------|-------|
| | | | VIRGIN ZONE (%) | INVADED ZONE | TOTAL % | SECONDARY % | TOTAL % | MOVABLE % | FOR-FT | HC-FT |
| 10943.0 | 0.0 | 2.74 | 72.7 | 78.5 | 10.7 | 0.3 | 2.9 | 0.6 | 35.85 | 4.75 |
| 10944.0 | 0.0 | 2.74 | 76.2 | 83.6 | 10.0 | 0.0 | 2.4 | 0.7 | 35.74 | 4.72 |
| 10945.0 | 1.0 | 2.75 | 74.0 | 80.3 | 9.9 | 0.0 | 2.6 | 0.6 | 35.64 | 4.70 |
| 10946.0 | 1.5 | 2.74 | 71.1 | 76.4 | 10.1 | 0.8 | 2.9 | 0.5 | 35.54 | 4.67 |
| 10947.0 | 1.5 | 2.75 | 74.2 | 80.7 | 9.7 | 0.0 | 2.5 | 0.6 | 35.44 | 4.65 |
| 10948.0 | 1.1 | 2.74 | 72.3 | 78.0 | 10.1 | 0.0 | 2.8 | 0.6 | 35.35 | 4.62 |
| 10949.0 | 0.4 | 2.75 | 73.6 | 79.9 | 10.1 | 0.8 | 2.7 | 0.6 | 35.24 | 4.59 |
| 10950.0 | 0.0 | 2.75 | 73.9 | 80.3 | 10.3 | 0.1 | 2.7 | 0.7 | 35.14 | 4.57 |
| 10951.0 | 0.0 | 2.74 | 84.1 | 90.4 | 10.4 | 0.0 | 1.7 | 0.7 | 35.04 | 4.54 |
| 10952.0 | 1.9 | 2.71 | 100.0 | 100.0 | 9.9 | 0.5 | 0.0 | 0.0 | 34.94 | 4.53 |
| 10953.0 | 1.1 | 2.71 | 100.0 | 100.0 | 10.4 | 0.0 | 0.0 | 0.0 | 34.84 | 4.53 |
| 10954.0 | 0.0 | 2.72 | 96.8 | 98.3 | 13.4 | 0.0 | 0.4 | 0.2 | 34.73 | 4.53 |
| 10955.0 | 0.0 | 2.71 | 79.9 | 87.2 | 15.5 | 0.9 | 3.1 | 1.1 | 34.59 | 4.52 |
| 10956.0 | 0.3 | 2.72 | 86.2 | 91.9 | 15.4 | 1.0 | 2.1 | 0.9 | 34.43 | 4.49 |
| 10957.0 | 0.0 | 2.72 | 93.8 | 96.6 | 14.9 | 0.7 | 0.9 | 0.4 | 34.28 | 4.47 |
| 10958.0 | 0.1 | 2.72 | 98.5 | 99.2 | 14.4 | 0.0 | 0.2 | 0.1 | 34.13 | 4.47 |
| 10959.0 | 1.2 | 2.72 | 95.3 | 97.5 | 15.2 | 0.0 | 0.7 | 0.3 | 33.99 | 4.46 |
| 10960.0 | 1.5 | 2.74 | 76.0 | 83.4 | 18.1 | 0.3 | 4.3 | 1.3 | 33.83 | 4.45 |
| 10961.0 | 2.1 | 2.75 | 76.4 | 83.8 | 18.7 | 1.5 | 4.4 | 1.4 | 33.64 | 4.40 |
| 10962.0 | 3.0 | 2.75 | 84.7 | 90.8 | 17.8 | 0.9 | 2.7 | 1.1 | 33.46 | 4.36 |
| 10963.0 | 1.6 | 2.76 | 83.4 | 89.9 | 18.1 | 0.2 | 3.0 | 1.2 | 33.28 | 4.34 |
| 10964.0 | 0.0 | 2.76 | 76.6 | 84.0 | 19.1 | 0.9 | 4.5 | 1.4 | 33.10 | 4.30 |
| 10965.0 | 0.5 | 2.75 | 82.1 | 89.0 | 18.1 | 0.8 | 3.2 | 1.2 | 32.91 | 4.26 |
| 10966.0 | 0.2 | 2.72 | 97.9 | 98.9 | 15.9 | 0.0 | 0.3 | 0.2 | 32.73 | 4.23 |
| 10967.0 | 1.3 | 2.72 | 90.5 | 94.6 | 16.8 | 0.3 | 1.6 | 0.7 | 32.57 | 4.23 |
| 10968.0 | 3.0 | 2.71 | 85.6 | 91.5 | 17.0 | 1.3 | 2.4 | 1.0 | 32.40 | 4.21 |
| 10969.0 | 2.5 | 2.72 | 91.7 | 95.3 | 16.3 | 0.8 | 1.4 | 0.6 | 32.24 | 4.19 |
| 10970.0 | 0.0 | 2.76 | 96.7 | 98.2 | 16.0 | 0.0 | 0.5 | 0.2 | 32.07 | 4.18 |
| 10971.0 | 0.0 | 2.76 | 93.1 | 96.2 | 16.5 | 0.0 | 1.1 | 0.5 | 31.91 | 4.17 |
| 10972.0 | 0.0 | 2.73 | 94.0 | 96.7 | 16.4 | 0.0 | 1.0 | 0.4 | 31.75 | 4.16 |
| 10973.0 | 0.0 | 2.74 | 85.9 | 91.7 | 17.3 | 0.3 | 2.4 | 1.0 | 31.58 | 4.15 |
| 10974.0 | 0.0 | 2.78 | 87.6 | 92.8 | 17.0 | 0.1 | 2.1 | 0.9 | 31.41 | 4.12 |
| 10975.0 | 0.3 | 2.78 | 84.4 | 90.6 | 17.1 | 0.8 | 2.7 | 1.1 | 31.24 | 4.10 |
| 10976.0 | 0.0 | 2.77 | 84.1 | 90.4 | 16.9 | 0.4 | 2.7 | 1.1 | 31.07 | 4.07 |
| 10977.0 | 0.0 | 2.74 | 88.7 | 93.5 | 16.2 | 0.1 | 1.8 | 0.8 | 30.90 | 4.05 |
| 10978.0 | 0.0 | 2.74 | 87.0 | 92.4 | 16.4 | 0.7 | 2.1 | 0.9 | 30.74 | 4.03 |
| 10979.0 | 0.8 | 2.76 | 92.6 | 95.9 | 15.9 | 0.4 | 1.2 | 0.5 | 30.58 | 4.01 |
| 10980.0 | 0.1 | 2.77 | 93.6 | 96.5 | 16.2 | 0.0 | 1.0 | 0.5 | 30.42 | 4.00 |
| 10981.0 | 0.6 | 2.75 | 86.3 | 91.9 | 17.5 | 0.2 | 2.4 | 1.0 | 30.25 | 3.99 |
| 10982.0 | 2.2 | 2.72 | 90.6 | 94.7 | 17.3 | 0.7 | 1.6 | 0.7 | 30.08 | 3.96 |
| 10983.0 | 1.8 | 2.74 | 82.9 | 89.5 | 18.4 | 0.7 | 3.2 | 1.2 | 29.90 | 3.94 |
| 10984.0 | 1.5 | 2.73 | 90.6 | 94.7 | 17.5 | 0.0 | 1.6 | 0.7 | 29.72 | 3.91 |
| 10985.0 | 1.5 | 2.73 | 95.9 | 97.8 | 16.5 | 0.0 | 0.7 | 0.3 | 29.54 | 3.90 |
| 10986.0 | 1.7 | 2.74 | 95.8 | 97.7 | 16.1 | 0.0 | 0.7 | 0.3 | 29.38 | 3.89 |
| 10987.0 | 2.0 | 2.75 | 96.0 | 97.9 | 15.8 | 0.0 | 0.6 | 0.3 | 29.22 | 3.89 |
| 10988.0 | 2.8 | 2.75 | 88.3 | 93.2 | 16.4 | 0.0 | 1.9 | 0.8 | 29.06 | 3.88 |
| 10989.0 | 3.3 | 2.76 | 94.4 | 96.9 | 15.5 | 0.0 | 0.9 | 0.4 | 28.90 | 3.87 |
| 10990.0 | 0.0 | 2.76 | 80.2 | 87.4 | 17.6 | 0.0 | 3.5 | 1.3 | 28.74 | 3.85 |

| DEPTH FEET | CLAY CONTENT % | AVERAGE MATRIX DENSITY GMS/CC | WATER SATURATIONS | | POROSITY | | HYDROCARBONS | | CUMULATIVE INTEGRATIONS | |
|---------------|----------------------|-------------------------------------|--------------------|-----------------|------------|----------------|--------------|--------------|----------------------------|-------|
| | | | VIRGIN ZONE (%) | INVADED ZONE | TOTAL % | SECONDARY % | TOTAL % | MOVABLE % | PCR-FT | HC-FT |
| 10991.0 | 0.3 | 2.77 | 78.1 | 85.6 | 17.9 | 0.0 | 3.9 | 1.3 | 28.56 | 3.81 |
| 10992.0 | 0.0 | 2.76 | 85.0 | 91.1 | 17.2 | 0.0 | 2.6 | 1.0 | 28.38 | 3.77 |
| 10993.0 | 0.0 | 2.74 | 85.3 | 91.2 | 17.2 | 0.0 | 2.5 | 1.0 | 28.21 | 3.75 |
| 10994.0 | 0.0 | 2.74 | 74.8 | 81.7 | 18.0 | 0.6 | 4.5 | 1.2 | 28.04 | 3.72 |
| 10995.0 | 0.6 | 2.74 | 76.5 | 83.9 | 16.5 | 0.0 | 3.9 | 1.2 | 27.86 | 3.67 |
| 10996.0 | 2.7 | 2.74 | 91.1 | 95.0 | 14.1 | 0.7 | 1.3 | 0.6 | 27.70 | 3.64 |
| 10997.0 | 3.8 | 2.74 | 100.0 | 100.0 | 10.8 | 0.0 | 0.0 | 0.0 | 27.57 | 3.63 |
| 10998.0 | 3.6 | 2.77 | 100.0 | 100.0 | 12.4 | 0.0 | 0.0 | 0.0 | 27.46 | 3.63 |
| 10999.0 | 1.0 | 2.78 | 81.8 | 88.7 | 15.9 | 0.0 | 2.9 | 1.1 | 27.33 | 3.63 |
| 11000.0 | 3.4 | 2.72 | 87.8 | 92.9 | 15.2 | 1.2 | 1.9 | 0.8 | 27.16 | 3.60 |
| 11001.0 | 4.5 | 2.71 | 98.1 | 99.0 | 13.7 | 1.3 | 0.3 | 0.1 | 27.02 | 3.59 |
| 11002.0 | 3.7 | 2.72 | 94.4 | 97.0 | 14.1 | 1.3 | 0.8 | 0.4 | 26.88 | 3.58 |
| 11003.0 | 4.3 | 2.75 | 92.8 | 96.0 | 13.9 | 0.0 | 1.0 | 0.4 | 26.74 | 3.57 |
| 11004.0 | 1.6 | 2.78 | 91.0 | 94.9 | 14.4 | 0.0 | 1.3 | 0.6 | 26.60 | 3.56 |
| 11005.0 | 0.0 | 2.78 | 95.0 | 97.2 | 13.9 | 0.0 | 0.7 | 0.3 | 26.45 | 3.55 |
| 11006.0 | 0.2 | 2.73 | 94.8 | 97.2 | 13.4 | 0.5 | 0.7 | 0.3 | 26.31 | 3.54 |
| 11007.0 | 0.9 | 2.74 | 98.1 | 99.0 | 12.4 | 0.6 | 0.2 | 0.1 | 26.18 | 3.53 |
| 11008.0 | 2.1 | 2.77 | 98.2 | 99.1 | 11.8 | 0.3 | 0.2 | 0.1 | 26.06 | 3.53 |
| 11009.0 | 0.0 | 2.76 | 85.5 | 91.4 | 13.1 | 0.2 | 1.9 | 0.8 | 25.94 | 3.52 |
| 11010.0 | 3.6 | 2.75 | 99.2 | 99.6 | 11.1 | 0.4 | 0.1 | 0.0 | 25.81 | 3.51 |
| 11011.0 | 2.8 | 2.74 | 100.0 | 100.0 | 10.8 | 0.0 | 0.0 | 0.0 | 25.70 | 3.51 |
| 11012.0 | 5.4 | 2.73 | 100.0 | 100.0 | 10.6 | 0.7 | 0.0 | 0.0 | 25.59 | 3.51 |
| 11013.0 | 6.4 | 2.74 | 97.6 | 98.7 | 12.0 | 1.7 | 0.3 | 0.1 | 25.48 | 3.51 |
| 11014.0 | 2.0 | 2.75 | 76.7 | 84.1 | 15.3 | 1.0 | 3.6 | 1.1 | 25.35 | 3.50 |
| 11015.0 | 2.5 | 2.73 | 77.0 | 84.5 | 15.5 | 1.8 | 3.6 | 1.2 | 25.20 | 3.46 |
| 11016.0 | 2.6 | 2.73 | 78.2 | 85.7 | 15.6 | 1.8 | 3.4 | 1.2 | 25.05 | 3.43 |
| 11017.0 | 3.8 | 2.74 | 82.2 | 89.0 | 15.1 | 1.5 | 2.7 | 1.0 | 24.89 | 3.39 |
| 11018.0 | 4.3 | 2.75 | 76.9 | 84.3 | 15.3 | 1.6 | 3.5 | 1.1 | 24.74 | 3.37 |
| 11019.0 | 3.6 | 2.73 | 76.7 | 84.2 | 15.1 | 1.2 | 3.5 | 1.1 | 24.59 | 3.33 |
| 11020.0 | 2.1 | 2.73 | 88.6 | 93.4 | 13.9 | 0.1 | 1.6 | 0.7 | 24.44 | 3.30 |
| 11021.0 | 1.9 | 2.74 | 91.5 | 95.2 | 13.2 | 0.2 | 1.1 | 0.5 | 24.30 | 3.28 |
| 11022.0 | 1.9 | 2.75 | 78.7 | 86.1 | 13.8 | 0.3 | 2.9 | 1.0 | 24.17 | 3.27 |
| 11023.0 | 1.8 | 2.75 | 72.5 | 78.2 | 14.6 | 0.7 | 4.0 | 0.8 | 24.03 | 3.23 |
| 11024.0 | 0.4 | 2.72 | 75.6 | 82.8 | 14.3 | 0.1 | 3.5 | 1.0 | 23.88 | 3.20 |
| 11025.0 | 1.2 | 2.72 | 79.4 | 86.8 | 13.8 | 0.4 | 2.8 | 1.0 | 23.74 | 3.16 |
| 11026.0 | 4.8 | 2.72 | 86.4 | 92.0 | 12.7 | 1.3 | 1.7 | 0.7 | 23.61 | 3.14 |
| 11027.0 | 4.8 | 2.72 | 82.0 | 88.9 | 13.1 | 1.5 | 2.4 | 0.9 | 23.48 | 3.12 |
| 11028.0 | 4.0 | 2.72 | 85.9 | 91.7 | 13.0 | 0.7 | 1.8 | 0.7 | 23.35 | 3.09 |
| 11029.0 | 0.9 | 2.73 | 81.4 | 88.4 | 13.8 | 0.0 | 2.6 | 1.0 | 23.22 | 3.07 |
| 11030.0 | 4.0 | 2.73 | 89.7 | 94.1 | 12.7 | 0.0 | 1.3 | 0.6 | 23.08 | 3.05 |
| 11031.0 | 4.6 | 2.72 | 85.1 | 91.1 | 13.0 | 0.7 | 1.9 | 0.8 | 22.95 | 3.04 |
| 11032.0 | 5.1 | 2.73 | 86.3 | 92.0 | 12.9 | 0.7 | 1.8 | 0.7 | 22.82 | 3.02 |
| 11033.0 | 5.6 | 2.73 | 89.2 | 93.8 | 12.6 | 0.8 | 1.4 | 0.6 | 22.70 | 3.00 |
| 11034.0 | 2.9 | 2.72 | 83.8 | 90.2 | 13.6 | 0.3 | 2.2 | 0.9 | 22.57 | 2.99 |
| 11035.0 | 0.0 | 2.73 | 74.0 | 80.4 | 15.1 | 0.0 | 3.9 | 1.0 | 22.43 | 2.96 |
| 11036.0 | 2.8 | 2.73 | 79.6 | 86.9 | 14.0 | 0.5 | 2.9 | 1.0 | 22.28 | 2.92 |
| 11037.0 | 5.2 | 2.72 | 82.6 | 89.3 | 13.3 | 1.5 | 2.3 | 0.9 | 22.14 | 2.90 |
| 11038.0 | 1.3 | 2.75 | 78.4 | 85.8 | 14.3 | 0.1 | 3.1 | 1.1 | 22.00 | 2.87 |

| DEPTH FEET | CLAY CONTENT % | AVERAGE MATRIX DENSITY GMS/CC | WATER SATURATIONS | | POROSITY | | HYDROCARBONS | | CUMULATIVE INTEGRATIONS | |
|---------------|----------------------|-------------------------------------|--------------------|-----------------|------------|----------------|--------------|--------------|----------------------------|-------|
| | | | VIRGIN ZONE (%) | INVADED ZONE | TOTAL % | SECONDARY % | TOTAL % | MCVABLE % | POR-FT | HC-FT |
| 11039.0 | 2.7 | 2.75 | 93.9 | 96.6 | 12.7 | 0.0 | 0.8 | 0.4 | 21.86 | 2.84 |
| 11040.0 | 3.8 | 2.73 | 88.4 | 93.3 | 13.2 | 0.5 | 1.5 | 0.6 | 21.74 | 2.84 |
| 11041.0 | 2.0 | 2.73 | 77.9 | 85.4 | 14.6 | 0.7 | 3.2 | 1.1 | 21.60 | 2.82 |
| 11042.0 | 1.0 | 2.74 | 76.7 | 84.1 | 15.1 | 0.5 | 3.5 | 1.1 | 21.45 | 2.78 |
| 11043.0 | 0.4 | 2.73 | 76.5 | 83.9 | 15.4 | 0.5 | 3.6 | 1.1 | 21.30 | 2.75 |
| 11044.0 | 1.2 | 2.75 | 74.9 | 81.8 | 15.6 | 0.6 | 3.9 | 1.1 | 21.15 | 2.71 |
| 11045.0 | 1.9 | 2.73 | 79.4 | 86.8 | 14.9 | 0.5 | 3.1 | 1.1 | 20.99 | 2.68 |
| 11046.0 | 0.0 | 2.75 | 79.8 | 87.1 | 15.1 | 0.0 | 3.0 | 1.1 | 20.84 | 2.64 |
| 11047.0 | 1.0 | 2.76 | 85.1 | 91.1 | 14.4 | 0.0 | 2.1 | 0.9 | 20.69 | 2.62 |
| 11048.0 | 2.7 | 2.74 | 91.0 | 94.9 | 13.6 | 0.0 | 1.2 | 0.5 | 20.55 | 2.60 |
| 11049.0 | 1.5 | 2.72 | 87.3 | 92.6 | 14.2 | 0.0 | 1.8 | 0.8 | 20.42 | 2.58 |
| 11050.0 | 1.9 | 2.73 | 82.0 | 88.9 | 14.8 | 0.5 | 2.7 | 1.0 | 20.27 | 2.56 |
| 11051.0 | 1.7 | 2.76 | 82.0 | 88.8 | 14.7 | 0.0 | 2.6 | 1.0 | 20.12 | 2.54 |
| 11052.0 | 3.4 | 2.75 | 81.6 | 88.5 | 14.4 | 0.8 | 2.6 | 1.0 | 19.98 | 2.51 |
| 11053.0 | 0.2 | 2.76 | 78.8 | 86.2 | 15.0 | 0.0 | 3.2 | 1.1 | 19.83 | 2.48 |
| 11054.0 | 0.0 | 2.78 | 77.2 | 84.7 | 15.1 | 0.0 | 3.4 | 1.1 | 19.68 | 2.45 |
| 11055.0 | 0.0 | 2.77 | 74.0 | 80.5 | 15.5 | 0.1 | 4.0 | 1.0 | 19.53 | 2.41 |
| 11056.0 | 0.4 | 2.78 | 78.6 | 86.0 | 14.9 | 0.0 | 3.2 | 1.1 | 19.38 | 2.37 |
| 11057.0 | 0.9 | 2.74 | 88.4 | 93.3 | 14.2 | 0.6 | 1.6 | 0.7 | 19.23 | 2.34 |
| 11058.0 | 1.7 | 2.75 | 86.1 | 91.8 | 14.5 | 0.7 | 2.0 | 0.8 | 19.08 | 2.33 |
| 11059.0 | 2.4 | 2.73 | 87.4 | 92.7 | 14.5 | 0.0 | 1.8 | 0.8 | 18.94 | 2.30 |
| 11060.0 | 2.9 | 2.73 | 81.1 | 88.2 | 15.4 | 1.1 | 2.9 | 1.1 | 18.79 | 2.29 |
| 11061.0 | 3.1 | 2.76 | 79.2 | 86.6 | 15.9 | 1.0 | 3.3 | 1.2 | 18.64 | 2.26 |
| 11062.0 | 2.6 | 2.75 | 77.5 | 85.1 | 16.0 | 1.1 | 3.6 | 1.2 | 18.48 | 2.22 |
| 11063.0 | 5.1 | 2.73 | 81.4 | 88.4 | 14.6 | 1.5 | 2.7 | 1.0 | 18.32 | 2.19 |
| 11064.0 | 3.4 | 2.75 | 87.8 | 92.9 | 13.6 | 0.7 | 1.7 | 0.7 | 18.18 | 2.16 |
| 11065.0 | 0.4 | 2.77 | 92.0 | 95.5 | 13.2 | 0.3 | 1.1 | 0.5 | 18.04 | 2.15 |
| 11066.0 | 0.0 | 2.75 | 95.7 | 97.7 | 13.2 | 0.4 | 0.6 | 0.3 | 17.91 | 2.14 |
| 11067.0 | 0.0 | 2.75 | 80.0 | 87.2 | 15.5 | 0.5 | 3.1 | 1.1 | 17.77 | 2.13 |
| 11068.0 | 1.8 | 2.76 | 72.5 | 78.2 | 17.5 | 1.3 | 4.8 | 1.0 | 17.61 | 2.09 |
| 11069.0 | 1.0 | 2.76 | 71.8 | 77.2 | 17.9 | 1.9 | 5.1 | 1.0 | 17.44 | 2.04 |
| 11070.0 | 1.9 | 2.76 | 82.2 | 89.0 | 15.3 | 2.0 | 2.7 | 1.0 | 17.26 | 2.00 |
| 11071.0 | 2.9 | 2.78 | 89.0 | 93.7 | 13.1 | 1.7 | 1.4 | 0.6 | 17.12 | 1.97 |
| 11072.0 | 1.2 | 2.78 | 88.1 | 93.1 | 12.2 | 0.0 | 1.4 | 0.6 | 16.99 | 1.96 |
| 11073.0 | 0.7 | 2.75 | 66.3 | 72.0 | 13.7 | 0.4 | 4.6 | 0.8 | 16.86 | 1.94 |
| 11074.0 | 0.6 | 2.78 | 69.5 | 74.7 | 12.8 | 0.6 | 3.9 | 0.7 | 16.73 | 1.89 |
| 11075.0 | 0.1 | 2.78 | 79.4 | 86.8 | 11.4 | 0.3 | 2.4 | 0.8 | 16.60 | 1.85 |
| 11076.0 | 2.7 | 2.79 | 96.6 | 98.2 | 9.3 | 1.0 | 0.3 | 0.1 | 16.49 | 1.83 |
| 11077.0 | 8.3 | 2.76 | 100.0 | 100.0 | 6.4 | 2.0 | 0.0 | 0.0 | 16.41 | 1.83 |
| 11078.0 | 4.8 | 2.79 | 100.0 | 100.0 | 6.3 | 0.0 | 0.0 | 0.0 | 16.34 | 1.83 |
| 11079.0 | 1.8 | 2.79 | 100.0 | 100.0 | 6.6 | 0.0 | 0.0 | 0.0 | 16.28 | 1.83 |
| 11080.0 | 2.6 | 2.79 | 100.0 | 100.0 | 9.3 | 0.0 | 0.0 | 0.0 | 16.22 | 1.83 |
| 11081.0 | 2.1 | 2.73 | 76.5 | 84.0 | 13.5 | 0.0 | 3.2 | 1.0 | 16.12 | 1.82 |
| 11082.0 | 0.0 | 2.74 | 74.4 | 81.0 | 15.4 | 0.0 | 3.9 | 1.0 | 15.98 | 1.79 |
| 11083.0 | 0.5 | 2.75 | 73.4 | 79.5 | 16.4 | 0.0 | 4.4 | 1.0 | 15.82 | 1.75 |
| 11084.0 | 3.7 | 2.76 | 78.7 | 86.2 | 14.7 | 2.2 | 3.1 | 1.1 | 15.66 | 1.71 |
| 11085.0 | 2.7 | 2.76 | 86.8 | 92.2 | 12.9 | 3.1 | 1.7 | 0.7 | 15.52 | 1.68 |
| 11086.0 | 5.5 | 2.77 | 100.0 | 100.0 | 9.6 | 1.7 | 0.0 | 0.0 | 15.40 | 1.67 |

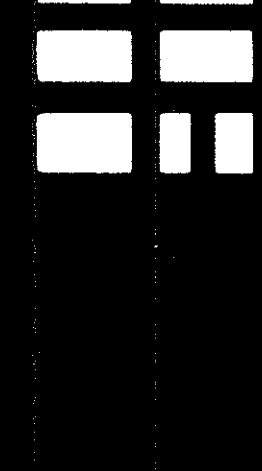
| DEPTH FEET | CLAY CONTENT % | AVERAGE MATRIX DENSITY GMS/CC | WATER SATURATIONS | | POROSITY | | HYDROCARBONS | | CUMULATIVE INTEGRATIONS | |
|---------------|----------------------|-------------------------------------|--------------------|-----------------|------------|----------------|--------------|--------------|----------------------------|-------|
| | | | VIRGIN ZONE (%) | INVADED ZONE | TOTAL % | SECONDARY % | TOTAL % | MOVABLE % | FOR-FT | HC-FT |
| 11087.0 | 7.7 | 2.75 | 99.0 | 99.5 | 9.0 | 2.2 | 0.1 | 0.0 | 15.30 | 1.67 |
| 11088.0 | 0.0 | 2.75 | 70.8 | 76.0 | 11.8 | 0.4 | 3.4 | 0.6 | 15.21 | 1.66 |
| 11089.0 | 0.2 | 2.74 | 67.7 | 73.2 | 12.6 | 0.9 | 4.1 | 0.7 | 15.09 | 1.63 |
| 11090.0 | 2.9 | 2.73 | 69.2 | 74.5 | 12.6 | 2.8 | 3.9 | 0.7 | 14.96 | 1.59 |
| 11091.0 | 6.1 | 2.72 | 85.7 | 91.6 | 10.8 | 2.6 | 1.5 | 0.6 | 14.84 | 1.55 |
| 11092.0 | 4.3 | 2.73 | 95.4 | 97.5 | 11.1 | 0.6 | 0.5 | 0.2 | 14.74 | 1.54 |
| 11093.0 | 3.0 | 2.74 | 93.0 | 96.1 | 12.5 | 0.0 | 0.9 | 0.4 | 14.62 | 1.54 |
| 11094.0 | 1.9 | 2.74 | 82.8 | 89.5 | 14.7 | 0.0 | 2.5 | 1.0 | 14.49 | 1.52 |
| 11095.0 | 1.5 | 2.74 | 73.0 | 78.9 | 17.3 | 1.5 | 4.7 | 1.0 | 14.34 | 1.49 |
| 11096.0 | 1.2 | 2.74 | 79.4 | 86.7 | 16.5 | 1.5 | 3.4 | 1.2 | 14.17 | 1.45 |
| 11097.0 | 6.9 | 2.74 | 97.3 | 98.6 | 12.4 | 2.0 | 0.3 | 0.2 | 14.01 | 1.42 |
| 11098.0 | 7.4 | 2.76 | 99.5 | 99.7 | 10.4 | 1.2 | 0.1 | 0.0 | 13.90 | 1.42 |
| 11099.0 | 5.8 | 2.75 | 75.4 | 82.5 | 11.5 | 1.7 | 2.8 | 0.8 | 13.79 | 1.41 |
| 11100.0 | 4.7 | 2.77 | 75.5 | 82.8 | 10.6 | 2.1 | 2.6 | 0.8 | 13.68 | 1.39 |
| 11101.0 | 2.2 | 2.77 | 71.4 | 76.7 | 10.7 | 0.7 | 3.1 | 0.6 | 13.57 | 1.36 |
| 11102.0 | 4.6 | 2.77 | 66.4 | 72.1 | 10.6 | 1.0 | 3.6 | 0.6 | 13.46 | 1.33 |
| 11103.0 | 4.0 | 2.77 | 79.3 | 86.7 | 9.2 | 0.4 | 1.9 | 0.7 | 13.36 | 1.30 |
| 11104.0 | 5.5 | 2.76 | 94.0 | 96.7 | 8.3 | 0.4 | 0.5 | 0.2 | 13.27 | 1.28 |
| 11105.0 | 8.6 | 2.73 | 73.0 | 78.8 | 9.5 | 2.4 | 2.6 | 0.6 | 13.18 | 1.27 |
| 11106.0 | 6.4 | 2.74 | 68.6 | 73.9 | 10.8 | 2.4 | 3.4 | 0.6 | 13.09 | 1.24 |
| 11107.0 | 5.6 | 2.77 | 70.7 | 75.9 | 11.1 | 0.5 | 3.2 | 0.6 | 12.98 | 1.21 |
| 11108.0 | 6.9 | 2.75 | 71.1 | 76.3 | 11.6 | 2.1 | 3.4 | 0.6 | 12.87 | 1.18 |
| 11109.0 | 2.4 | 2.76 | 77.7 | 85.2 | 13.0 | 1.2 | 2.9 | 1.0 | 12.75 | 1.14 |
| 11110.0 | 1.9 | 2.75 | 83.7 | 90.1 | 14.1 | 1.0 | 2.3 | 0.9 | 12.61 | 1.11 |
| 11111.0 | 1.6 | 2.73 | 78.9 | 86.3 | 16.3 | 0.6 | 3.4 | 1.2 | 12.47 | 1.09 |
| 11112.0 | 3.1 | 2.78 | 77.3 | 84.8 | 17.4 | 0.0 | 4.0 | 1.3 | 12.30 | 1.05 |
| 11113.0 | 2.3 | 2.78 | 77.5 | 85.0 | 18.3 | 0.3 | 4.1 | 1.4 | 12.12 | 1.01 |
| 11114.0 | 2.3 | 2.78 | 74.0 | 80.4 | 18.9 | 1.5 | 4.9 | 1.2 | 11.94 | 0.97 |
| 11115.0 | 2.8 | 2.78 | 80.2 | 87.5 | 17.6 | 1.2 | 3.5 | 1.3 | 11.75 | 0.92 |
| 11116.0 | 3.3 | 2.76 | 80.1 | 87.4 | 17.3 | 1.7 | 3.4 | 1.3 | 11.58 | 0.89 |
| 11117.0 | 2.2 | 2.74 | 78.0 | 85.5 | 17.2 | 1.4 | 3.8 | 1.3 | 11.41 | 0.85 |
| 11118.0 | 1.9 | 2.73 | 76.8 | 84.3 | 16.6 | 1.0 | 3.8 | 1.2 | 11.23 | 0.81 |
| 11119.0 | 5.5 | 2.73 | 85.0 | 91.0 | 13.9 | 2.1 | 2.1 | 0.8 | 11.08 | 0.78 |
| 11120.0 | 7.6 | 2.76 | 89.6 | 94.0 | 11.8 | 2.3 | 1.2 | 0.5 | 10.94 | 0.76 |
| 11121.0 | 7.9 | 2.78 | 96.8 | 98.3 | 9.4 | 1.0 | 0.3 | 0.1 | 10.83 | 0.75 |
| 11122.0 | 5.9 | 2.77 | 81.2 | 88.3 | 9.6 | 0.7 | 1.8 | 0.7 | 10.74 | 0.75 |
| 11123.0 | 3.6 | 2.78 | 69.7 | 74.9 | 10.3 | 0.5 | 3.1 | 0.5 | 10.64 | 0.73 |
| 11124.0 | 0.2 | 2.75 | 70.3 | 75.5 | 10.5 | 0.8 | 3.1 | 0.5 | 10.54 | 0.70 |
| 11125.0 | 0.0 | 2.75 | 61.8 | 68.0 | 11.6 | 2.7 | 4.4 | 0.7 | 10.43 | 0.66 |
| 11126.0 | 0.0 | 2.76 | 67.7 | 73.2 | 10.6 | 1.0 | 3.4 | 0.6 | 10.32 | 0.62 |
| 11127.0 | 4.6 | 2.74 | 79.3 | 86.7 | 9.1 | 0.7 | 1.9 | 0.7 | 10.21 | 0.59 |
| 11128.0 | 4.4 | 2.73 | 96.3 | 98.0 | 8.4 | 0.0 | 0.3 | 0.1 | 10.13 | 0.58 |
| 11129.0 | 1.3 | 2.73 | 74.5 | 81.3 | 10.5 | 1.6 | 2.7 | 0.7 | 10.04 | 0.57 |
| 11130.0 | 1.6 | 2.75 | 66.5 | 72.1 | 11.6 | 0.0 | 3.9 | 0.7 | 9.93 | 0.54 |
| 11131.0 | 3.4 | 2.74 | 72.0 | 77.5 | 10.7 | 0.8 | 3.0 | 0.6 | 9.81 | 0.50 |
| 11132.0 | 4.7 | 2.72 | 99.0 | 99.5 | 8.7 | 1.3 | 0.1 | 0.0 | 9.71 | 0.48 |
| 11133.0 | 2.4 | 2.72 | 98.8 | 99.4 | 9.8 | 1.1 | 0.1 | 0.1 | 9.62 | 0.48 |
| 11134.0 | 0.2 | 2.71 | 87.6 | 92.8 | 12.4 | 0.3 | 1.5 | 0.6 | 9.52 | 0.47 |

| 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-FI |
| 11135.0 | 1.3 | 2.73 | 95.3 | 97.4 | 12.7 | 0.0 | 0.6 | 0.3 | 9.39 | 0.46 |
| 11136.0 | 1.9 | 2.73 | 82.4 | 89.2 | 14.1 | 0.7 | 2.5 | 1.0 | 9.26 | 0.45 |
| 11137.0 | 0.0 | 2.73 | 80.7 | 87.9 | 13.9 | 0.8 | 2.7 | 1.0 | 9.12 | 0.42 |
| 11138.0 | 1.2 | 2.73 | 88.0 | 93.0 | 11.5 | 2.0 | 1.4 | 0.6 | 8.99 | 0.39 |
| 11139.0 | 2.4 | 2.74 | 97.2 | 98.5 | 9.3 | 0.0 | 0.3 | 0.1 | 8.88 | 0.39 |
| 11140.0 | 2.4 | 2.76 | 79.6 | 87.0 | 9.8 | 0.0 | 2.0 | 0.7 | 8.79 | 0.38 |
| 11141.0 | 2.8 | 2.73 | 95.2 | 97.4 | 8.9 | 0.3 | 0.4 | 0.2 | 8.69 | 0.36 |
| 11142.0 | 3.9 | 2.73 | 98.0 | 98.9 | 8.7 | 0.0 | 0.2 | 0.1 | 8.60 | 0.36 |
| 11143.0 | 3.7 | 2.73 | 76.7 | 84.2 | 10.2 | 0.0 | 2.4 | 0.8 | 8.51 | 0.35 |
| 11144.0 | 0.3 | 2.73 | 65.5 | 71.2 | 12.3 | 0.3 | 4.2 | 0.7 | 8.40 | 0.32 |
| 11145.0 | 3.6 | 2.73 | 99.4 | 99.7 | 8.4 | 0.4 | 0.1 | 0.0 | 8.29 | 0.29 |
| 11146.0 | 4.8 | 2.75 | 100.0 | 100.0 | 7.1 | 0.0 | 0.0 | 0.0 | 8.21 | 0.29 |
| 11147.0 | 3.2 | 2.75 | 100.0 | 100.0 | 7.9 | 0.6 | 0.0 | 0.0 | 8.14 | 0.29 |
| 11148.0 | 5.5 | 2.72 | 100.0 | 100.0 | 7.4 | 0.8 | 0.0 | 0.0 | 8.06 | 0.29 |
| 11149.0 | 2.7 | 2.71 | 100.0 | 100.0 | 8.7 | 0.0 | 0.0 | 0.0 | 7.97 | 0.29 |
| 11150.0 | 2.2 | 2.71 | 100.0 | 100.0 | 9.1 | 0.0 | 0.0 | 0.0 | 7.89 | 0.29 |
| 11151.0 | 3.6 | 2.73 | 94.4 | 96.9 | 10.0 | 0.0 | 0.6 | 0.3 | 7.79 | 0.28 |
| 11152.0 | 5.7 | 2.72 | 96.9 | 98.3 | 9.4 | 0.1 | 0.3 | 0.1 | 7.69 | 0.27 |
| 11153.0 | 3.8 | 2.72 | 89.0 | 93.7 | 10.0 | 0.2 | 1.1 | 0.5 | 7.59 | 0.27 |
| 11154.0 | 5.1 | 2.75 | 95.6 | 97.6 | 9.2 | 0.7 | 0.4 | 0.2 | 7.50 | 0.26 |
| 11155.0 | 5.0 | 2.72 | 98.8 | 99.4 | 9.0 | 2.0 | 0.1 | 0.1 | 7.41 | 0.26 |
| 11156.0 | 0.0 | 2.70 | 97.3 | 98.5 | 10.1 | 0.0 | 0.3 | 0.1 | 7.31 | 0.25 |
| 11157.0 | 1.9 | 2.70 | 100.0 | 100.0 | 8.8 | 0.0 | 0.0 | 0.0 | 7.22 | 0.25 |
| 11158.0 | 1.1 | 2.70 | 83.3 | 89.9 | 11.8 | 0.5 | 2.0 | 0.8 | 7.13 | 0.25 |
| 11159.0 | 2.0 | 2.71 | 100.0 | 100.0 | 8.8 | 0.0 | 0.0 | 0.0 | 7.01 | 0.24 |
| 11160.0 | 3.6 | 2.71 | 100.0 | 100.0 | 8.3 | 0.0 | 0.0 | 0.0 | 6.93 | 0.24 |
| 11161.0 | 3.2 | 2.72 | 99.9 | 99.9 | 9.6 | 0.4 | 0.0 | 0.0 | 6.84 | 0.24 |
| 11162.0 | 3.6 | 2.74 | 100.0 | 100.0 | 8.3 | 0.0 | 0.0 | 0.0 | 6.75 | 0.24 |
| 11163.0 | 5.3 | 2.76 | 100.0 | 100.0 | 7.0 | 0.0 | 0.0 | 0.0 | 6.67 | 0.24 |
| 11164.0 | 4.7 | 2.78 | 98.7 | 99.3 | 8.6 | 0.0 | 0.1 | 0.1 | 6.60 | 0.24 |
| 11165.0 | 1.8 | 2.76 | 75.9 | 83.2 | 10.4 | 0.0 | 2.5 | 0.8 | 6.51 | 0.24 |
| 11166.0 | 1.2 | 2.72 | 95.9 | 97.8 | 9.2 | 0.0 | 0.4 | 0.2 | 6.41 | 0.21 |
| 11167.0 | 3.2 | 2.75 | 96.7 | 98.2 | 8.5 | 0.0 | 0.3 | 0.1 | 6.31 | 0.21 |
| 11168.0 | 7.4 | 2.74 | 94.0 | 96.7 | 7.9 | 0.8 | 0.5 | 0.2 | 6.23 | 0.20 |
| 11169.0 | 3.0 | 2.74 | 86.6 | 92.1 | 8.9 | 0.5 | 1.2 | 0.5 | 6.15 | 0.20 |
| 11170.0 | 3.7 | 2.74 | 95.8 | 97.7 | 8.3 | 0.0 | 0.3 | 0.2 | 6.06 | 0.19 |
| 11171.0 | 5.3 | 2.74 | 79.0 | 86.4 | 9.0 | 0.4 | 1.9 | 0.7 | 5.98 | 0.18 |
| 11172.0 | 3.7 | 2.74 | 69.4 | 74.7 | 10.2 | 1.7 | 3.1 | 0.5 | 5.88 | 0.16 |
| 11173.0 | 1.6 | 2.73 | 79.5 | 86.8 | 9.6 | 0.0 | 2.0 | 0.7 | 5.78 | 0.13 |
| 11174.0 | 3.4 | 2.74 | 98.7 | 99.3 | 8.6 | 0.0 | 0.1 | 0.1 | 5.69 | 0.12 |
| 11175.0 | 2.3 | 2.73 | 100.0 | 100.0 | 8.7 | 0.0 | 0.0 | 0.0 | 5.61 | 0.12 |
| 11176.0 | 0.0 | 2.72 | 99.9 | 99.9 | 10.9 | 0.0 | 0.0 | 0.0 | 5.51 | 0.12 |
| 11177.0 | 0.0 | 2.74 | 99.4 | 99.7 | 13.6 | 0.0 | 0.1 | 0.0 | 5.40 | 0.12 |
| 11178.0 | 0.0 | 2.73 | 96.7 | 98.3 | 16.8 | 0.0 | 0.5 | 0.3 | 5.25 | 0.11 |
| 11179.0 | 0.0 | 2.71 | 96.9 | 98.3 | 18.7 | 0.0 | 0.6 | 0.3 | 5.08 | 0.11 |
| 11180.0 | 0.0 | 2.73 | 98.9 | 99.4 | 20.0 | 0.0 | 0.2 | 0.1 | 4.89 | 0.10 |
| 11181.0 | 0.0 | 2.69 | 99.9 | 99.9 | 20.5 | 0.0 | 0.0 | 0.0 | 4.69 | 0.10 |
| 11182.0 | 3.3 | 2.71 | 100.0 | 100.0 | 20.7 | 0.0 | 0.0 | 0.0 | 4.48 | 0.10 |

| DEPTH FEET | CLAY CONTENT % | AVERAGE MATRIX DENSITY GMS/CC | WATER SATURATIONS | | POROSITY | | HYDROCARBONS | | CUMULATIVE INTEGRATIONS | |
|---------------|----------------------|-------------------------------------|--------------------|-----------------|------------|----------------|--------------|--------------|----------------------------|-------|
| | | | VIRGIN ZONE (%) | INVADED ZONE | TOTAL % | SECONDARY % | TOTAL % | MCVABLE % | POR-FT | HC-FT |
| 11183.0 | 1.1 | 2.75 | 99.7 | 99.8 | 21.7 | 0.0 | 0.1 | 0.0 | 4.27 | 0.10 |
| 11184.0 | 3.2 | 2.71 | 99.9 | 100.0 | 20.0 | 0.0 | 0.0 | 0.0 | 4.06 | 0.10 |
| 11185.0 | 1.9 | 2.71 | 99.6 | 99.8 | 18.4 | 0.0 | 0.1 | 0.0 | 3.86 | 0.10 |
| 11186.0 | 1.7 | 2.70 | 100.0 | 100.0 | 14.6 | 0.0 | 0.0 | 0.0 | 3.69 | 0.10 |
| 11187.0 | 3.1 | 2.72 | 100.0 | 100.0 | 10.8 | 0.0 | 0.0 | 0.0 | 3.55 | 0.10 |
| 11188.0 | 4.1 | 2.72 | 100.0 | 100.0 | 10.2 | 0.6 | 0.0 | 0.0 | 3.45 | 0.10 |
| 11189.0 | 2.8 | 2.72 | 91.2 | 95.1 | 12.0 | 0.0 | 1.1 | 0.5 | 3.34 | 0.10 |
| 11190.0 | 2.0 | 2.70 | 90.9 | 94.9 | 12.8 | 0.0 | 1.2 | 0.5 | 3.22 | 0.08 |
| 11191.0 | 1.3 | 2.71 | 99.8 | 99.9 | 12.3 | 0.0 | 0.0 | 0.0 | 3.09 | 0.07 |
| 11192.0 | 2.1 | 2.71 | 100.0 | 100.0 | 12.0 | 0.0 | 0.0 | 0.0 | 2.97 | 0.07 |
| 11193.0 | 2.7 | 2.71 | 100.0 | 100.0 | 11.7 | 0.0 | 0.0 | 0.0 | 2.85 | 0.07 |
| 11194.0 | 2.2 | 2.70 | 100.0 | 100.0 | 12.1 | 0.0 | 0.0 | 0.0 | 2.73 | 0.07 |
| 11195.0 | 3.7 | 2.71 | 100.0 | 100.0 | 12.5 | 0.3 | 0.0 | 0.0 | 2.61 | 0.07 |
| 11196.0 | 3.4 | 2.73 | 94.6 | 97.0 | 13.2 | 0.3 | 0.7 | 0.3 | 2.48 | 0.07 |
| 11197.0 | 3.0 | 2.71 | 97.0 | 98.4 | 12.1 | 0.8 | 0.4 | 0.2 | 2.35 | 0.06 |
| 11198.0 | 2.4 | 2.72 | 98.9 | 99.4 | 10.7 | 0.7 | 0.1 | 0.1 | 2.23 | 0.06 |
| 11199.0 | 1.9 | 2.72 | 100.0 | 100.0 | 9.1 | 0.1 | 0.0 | 0.0 | 2.13 | 0.06 |
| 11200.0 | 2.2 | 2.71 | 100.0 | 100.0 | 8.3 | 0.0 | 0.0 | 0.0 | 2.04 | 0.06 |
| 11201.0 | 3.4 | 2.71 | 100.0 | 100.0 | 6.6 | 0.0 | 0.0 | 0.0 | 1.96 | 0.06 |
| 11202.0 | 1.3 | 2.71 | 100.0 | 100.0 | 9.1 | 0.0 | 0.0 | 0.0 | 1.89 | 0.06 |
| 11203.0 | 2.4 | 2.71 | 100.0 | 100.0 | 9.0 | 0.0 | 0.0 | 0.0 | 1.80 | 0.06 |
| 11204.0 | 1.6 | 2.71 | 100.0 | 100.0 | 8.9 | 0.0 | 0.0 | 0.0 | 1.71 | 0.06 |
| 11205.0 | 0.0 | 2.70 | 100.0 | 100.0 | 9.7 | 0.0 | 0.0 | 0.0 | 1.62 | 0.06 |
| 11206.0 | 1.9 | 2.71 | 100.0 | 100.0 | 8.8 | 0.0 | 0.0 | 0.0 | 1.52 | 0.06 |
| 11207.0 | 2.6 | 2.71 | 100.0 | 100.0 | 8.8 | 0.0 | 0.0 | 0.0 | 1.44 | 0.06 |
| 11208.0 | 1.1 | 2.71 | 100.0 | 100.0 | 9.2 | 0.0 | 0.0 | 0.0 | 1.35 | 0.06 |
| 11209.0 | 0.0 | 2.73 | 88.1 | 93.1 | 12.4 | 0.0 | 1.5 | 0.6 | 1.25 | 0.06 |
| 11210.0 | 1.2 | 2.72 | 81.9 | 88.8 | 13.2 | 0.9 | 2.4 | 0.9 | 1.12 | 0.04 |
| 11211.0 | 0.8 | 2.72 | 94.7 | 97.1 | 12.6 | 0.0 | 0.7 | 0.3 | 0.99 | 0.02 |
| 11212.0 | 0.0 | 2.74 | 99.8 | 99.9 | 11.8 | 0.0 | 0.0 | 0.0 | 0.86 | 0.01 |
| 11213.0 | 0.0 | 2.73 | 97.2 | 98.5 | 12.4 | 0.0 | 0.3 | 0.2 | 0.75 | 0.01 |
| 11214.0 | 2.0 | 2.71 | 93.8 | 96.6 | 12.3 | 0.2 | 0.8 | 0.3 | 0.62 | 0.01 |
| 11215.0 | 1.2 | 2.72 | 99.3 | 99.6 | 11.2 | 0.0 | 0.1 | 0.0 | 0.50 | 0.00 |
| 11216.0 | 0.6 | 2.74 | 100.0 | 100.0 | 9.6 | 0.0 | 0.0 | 0.0 | 0.39 | 0.00 |
| 11217.0 | 3.3 | 2.71 | 100.0 | 100.0 | 8.1 | 0.0 | 0.0 | 0.0 | 0.30 | 0.00 |
| 11218.0 | 0.0 | 2.70 | 100.0 | 100.0 | 9.3 | 0.0 | 0.0 | 0.0 | 0.22 | 0.00 |
| 11219.0 | 1.8 | 2.73 | 100.0 | 100.0 | 8.9 | 0.0 | 0.0 | 0.0 | 0.13 | 0.00 |
| 11220.0 | 3.1 | 2.73 | 100.0 | 100.0 | 7.9 | 0.0 | 0.0 | 0.0 | 0.04 | 0.00 |

Schlumberger

Synergistic Log Systems



Computer Processed Interpretation

Using the following logs:

TRC, LIT, MEL, BRG, PDC, SMP

COMPANY: PHILLIPS PETROLEUM COMPANY

WELL: 27A-3X

FIELD: SMOCKSV

COUNTRY: NORWAY

REFERENCE No: 113-12307

DATE LOGGED: 3 JULY 70

LOCATION: N 56° 30' 47.89" E 03° 12' 39.49"

DATE PROCESSED: 30 JUNE 76

ELEV: KB 891 DF 97.51 GL -2331

The well name, location and borehole reference data were furnished by the customer

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to Clause 7 of our General Terms and Conditions as set out in our current Price Schedule.

Computation Center: CLIC/Clamart Programs used: PRE 016 COR 004 Analyst: BELISSIER

PARAMETERS

| Depth Interval | Rw | Rmf | Rcl | Δtcl | Ø Ncl | ρ _{cl} | ρ _h | T ^o |
|----------------|------|------|-----|------|-------|-----------------|----------------|----------------|
| From 10685 | .018 | .05 | .8 | 120 | 40 | 2.40 | OTL | 250 |
| To 10200 | .049 | .054 | .8 | 120 | 40 | 2.40 | OTL | 235 |

Remarks

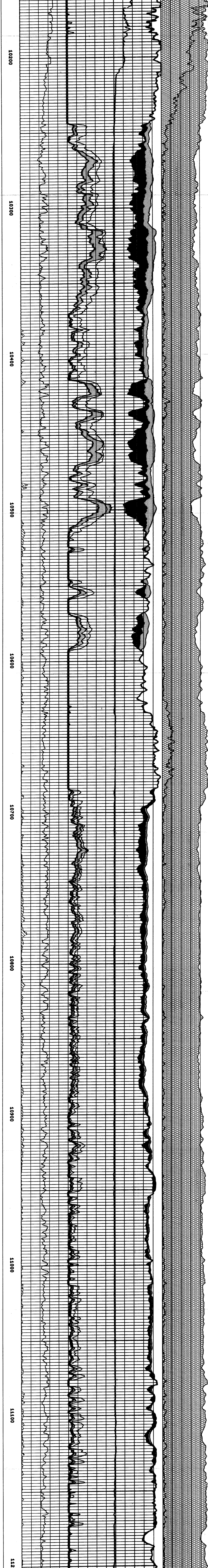
| DEPTH | FORMATION CHARACTERISTICS | HYDROCARBON ANALYSIS | | POROSITY AND FLUIDS ANALYSIS BY VOLUME | | | FORMATION ANALYSIS BY VOLUME | | |
|-------|---------------------------|----------------------|---------------|--|---------------|--------|------------------------------|------------|--|
| | | Water Saturation % | Hydrocarbon % | Residual Hydrocarbon % | Moved Water % | Clay % | Matrix % | Porosity % | |
| FT | S P I | 50 | 100 | 0 | 50 | 0 | 100 | 0 | |

Average Grain Density
From 2.5 gm/cc 3.0

DIFFERENTIAL CALIPER
-4 0 12 inches
(Caliper - Bit Size)

Hydrocarbon Volume
e_{shr} .25

Hydrocarbon Weight
φ_{shr} ρ_h .25



FOLD HERE