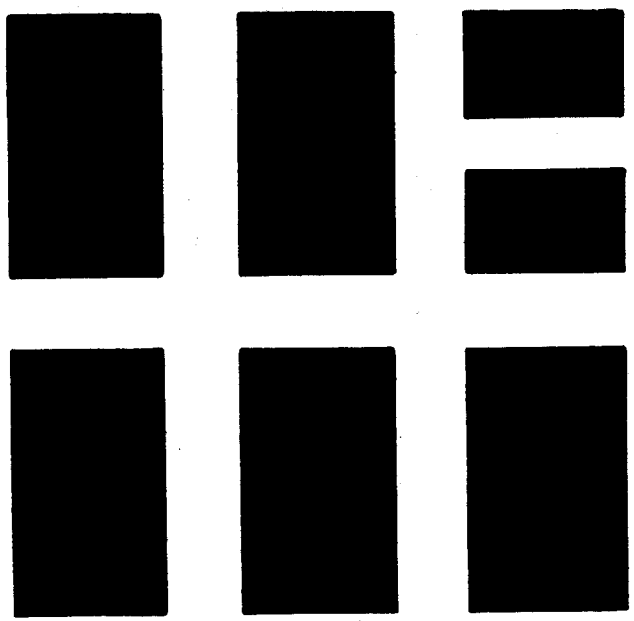
COMPANY	STATOIL
WELL	15/9 - 1
FIELD	WILDCAT
COUNTRY	NORWAY
DATE	27 APRIL 1977
REFERENCE	513,2727

Schlumberger
Synergetic Log Systems



Computer Processed Interpretation

CORIBAND

An Analysis Of Complex Lithology

CORIBAND
Analysis of Complex Lithology

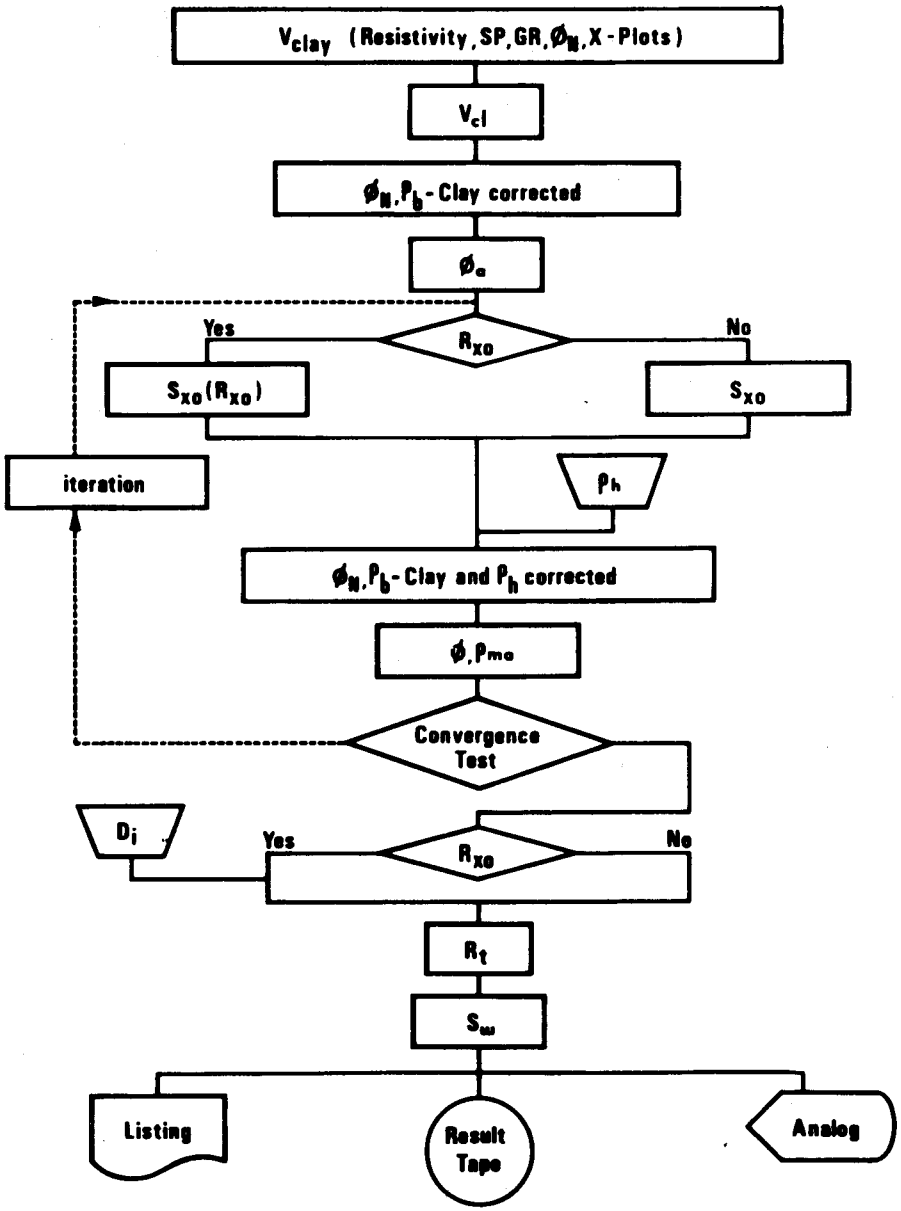
C O R I B A N D is a computer program which provides continuous computations of reservoir parameters through a zone of complex lithology. It corrects logging data for environmental effects and utilises all available information to provide the most probable solution for reservoir analysis.

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 (Rt), invasion diameter (di), Rwa and Rmfa. 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 Vclay from various indicators is taken as final value.

This clay corrected value of porosity is used to calculate a first value of Sw and Sxo.
ρh is then determined and used with Sxo 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 Sxo, and the hydrocarbon effect is recomputed.

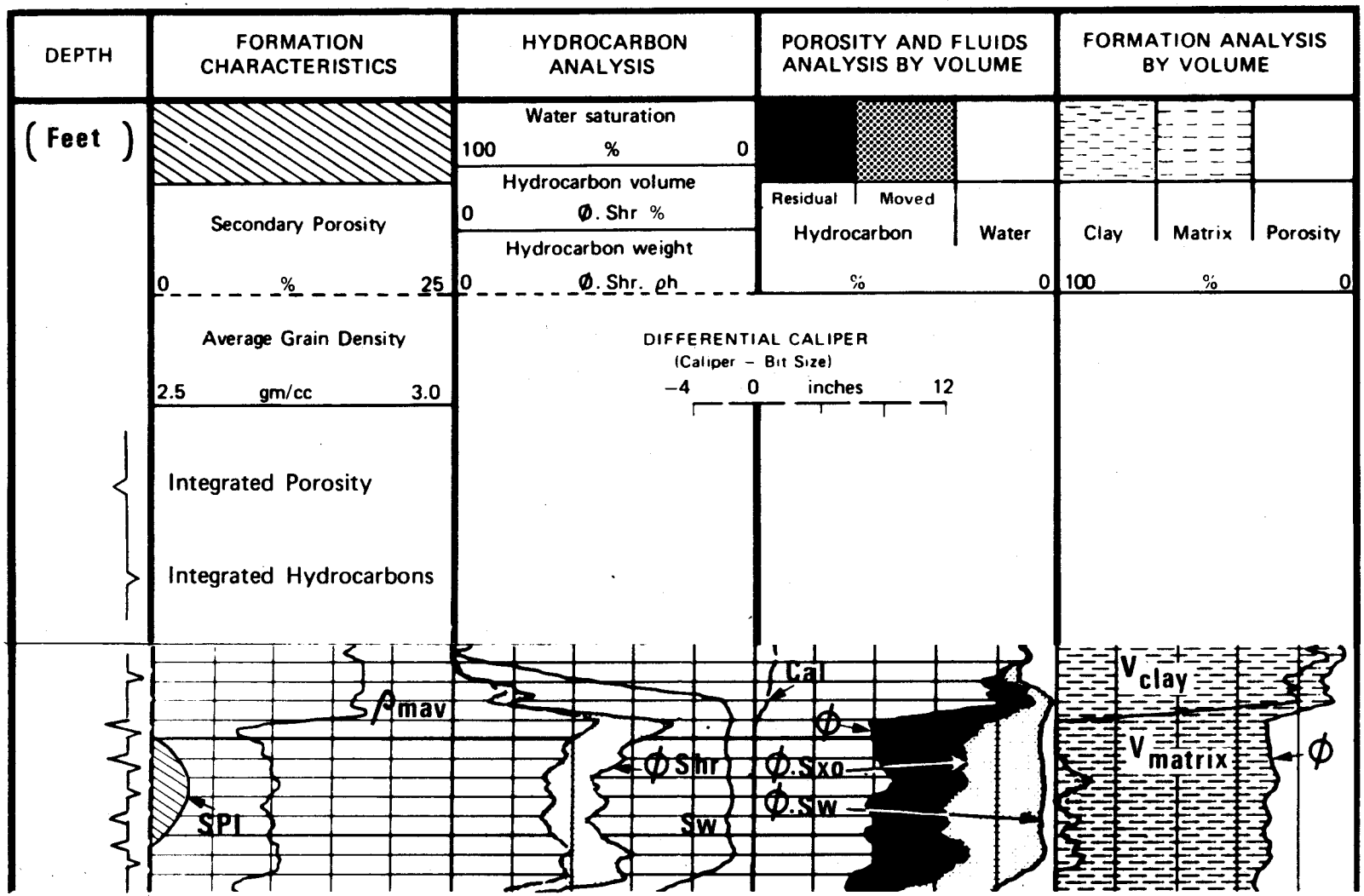
This iteration process continues until the new porosity differs from the previous value by less than 1 p.u.

Final computation of Sw using porosity corrected for clay and hydrocarbons, Rt corrected for invasion and Vclay.

CORIBAND

Analysis of Complex Lithology

ANALOG PRESENTATION



CORIBAND
Analysis of Complex Lithology

TABULAR LISTING DATA

DEPTH FEET	CLAY CONTENT %	AVERAGE MATRIX DENSITY GMS/CC	WATER SATURATIONS VIRGIN ZONE (%)	WATER SATURATIONS INVADED ZONE	POROSITY TOTAL %	POROSITY SECONDARY %	HYDROCARBONS TOTAL %	HYDROCARBONS MOVABLE %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
6517.0	.0	2.65	94.2	98.2	28.6	.0	1.7	.5	281.14	3.44
6518.0	.0	2.63	96.3	98.9	28.3	.0	1.0	.3	277.70	3.43
6519.0	.0	2.63	90.0	96.9	28.7	.0	2.9	.9	274.28	3.41
6520.0	.0	2.64	85.8	95.5	30.0	.0	4.3	1.4	270.87	3.38
6521.0	.0	2.66	87.2	96.0	30.6	.0	3.9	1.2	267.50	3.34
6522.0	.0	2.64	89.9	96.9	29.9	.0	3.0	.9	264.18	3.30
6523.0	.0	2.63	92.6	97.7	29.0	.0	2.1	.7	260.89	3.27
6524.0	.0	2.66	92.5	97.7	29.8	.0	2.2	.7	257.62	3.25
6525.0	.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.

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 $\bar{a}$ pore volume of .2 m^3/m^2.

Integrated hydrocarbon. The distance between consecutive pips represents 1 foot of hyfrocarbon 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.ρh are not shown.

Formation Characteristics - Track I.

SPI — Secondary Porosity Index. (SPI = $\emptyset_{ND} - \emptyset_S$). As the sonic responds mainly to intergranular porosity, while the Neutron and Density respond to total porosity, the presence of vugs or fractures is shown by the Neutron-Density porosity reading higher than the sonic porosity.

ρmav — 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 $\emptyset$ (I − S_{XO}) in the invaded zone.
$\emptyset$.Shr.ρh — 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.

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* SCHLUMBERGER *
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COMPUTER PROCESSED INTERPRETATION

COMPANY STATOIL

WELL 15/9-1

FIELD WILDCAT

COUNTRY NORWAY

REFERENCE 513,2727

LOGGED 27-04-77

VSH GREATER THAN 70 PERCENT NOT LISTED

DEPTH METERS	CLAY CONTENT %	AVERAGE MATRIX DENSITY GMS/CC	WATER SATURATIONS VIRGIN ZONE (f)	WATER SATURATIONS INVADED ZONE	POROSITY TOTAL %	POROSITY SECONDARY %	HYDROCARBONS TOTAL %	HYDROCARBONS MOVABLE %	CUMULATIVE INTEGRATIONS POR-MET	CUMULATIVE INTEGRATIONS HC-MET
3523.5	33.5	2.90	55.7	55.7	14.3	0.0	6.3	0.0	18.67	10.41
3523.8	47.5	2.91	70.7	70.7	10.8	0.0	3.2	0.0	18.63	10.39
3524.1	59.7	3.00	75.3	84.3	9.0	0.0	2.2	0.8	18.60	10.39
3524.4	55.4	3.00	87.0	87.0	7.7	0.0	1.0	0.0	18.58	10.38
3524.7	48.2	2.92	100.0	100.0	3.0	0.0	0.0	0.0	18.56	10.38
3525.6	68.7	3.00	73.9	73.9	7.2	0.0	1.9	0.0	18.55	10.38
3529.0	36.2	2.89	49.6	68.1	16.8	0.0	8.5	3.1	18.40	10.35
3529.9	62.4	3.00	65.0	88.5	10.1	0.0	3.6	2.4	18.37	10.33
3530.2	37.7	2.92	62.2	94.3	13.5	0.0	5.1	4.3	18.33	10.32
3530.5	64.8	3.00	100.0	100.0	4.5	0.0	0.0	0.0	18.29	10.31
3530.8	56.1	3.00	100.0	100.0	0.0	0.0	0.0	0.0	18.28	10.31
3531.1	42.6	2.92	99.6	99.6	7.2	0.0	0.0	0.0	18.28	10.31
3531.4	37.4	2.76	97.9	97.9	7.8	0.0	0.2	0.0	18.26	10.31
3531.7	40.8	2.77	100.0	100.0	4.5	0.0	0.0	0.0	18.23	10.31
3532.0	52.3	2.87	100.0	100.0	0.0	0.0	0.0	0.0	18.22	10.31
3532.3	53.4	2.85	100.0	100.0	2.4	0.0	0.0	0.0	18.22	10.31
3532.6	27.2	2.83	100.0	100.0	5.7	0.0	0.0	0.0	18.21	10.31
3532.9	44.9	2.85	100.0	100.0	4.0	0.0	0.0	0.0	18.20	10.31
3533.3	55.1	2.89	96.2	96.2	4.7	0.0	0.2	0.0	18.19	10.31
3533.6	65.9	2.93	100.0	100.0	1.1	0.0	0.0	0.0	18.17	10.30
3534.5	67.8	2.92	100.0	100.0	1.1	0.0	0.0	0.0	18.17	10.30
3534.8	62.4	2.87	100.0	100.0	1.0	0.0	0.0	0.0	18.16	10.30
3535.1	57.5	2.87	100.0	100.0	0.0	0.0	0.0	0.0	18.16	10.30
3535.4	52.1	2.84	100.0	100.0	0.0	0.0	0.0	0.0	18.16	10.30
3535.7	40.9	2.78	100.0	100.0	4.5	0.0	0.0	0.0	18.16	10.30
3536.0	54.7	2.83	100.0	100.0	3.5	0.0	0.0	0.0	18.15	10.30
3536.3	43.1	2.89	98.4	98.4	5.1	0.0	0.1	0.0	18.14	10.30
3536.6	46.6	2.94	100.0	100.0	2.8	0.0	0.0	0.0	18.12	10.30
3536.9	59.0	3.00	100.0	100.0	0.0	0.0	0.0	0.0	18.11	10.30
3537.8	60.7	3.00	96.2	96.2	3.9	0.0	0.1	0.0	18.11	10.30
3538.1	57.5	3.00	96.4	99.0	4.2	0.0	0.2	0.1	18.09	10.30
3538.4	53.6	3.00	76.0	99.9	6.1	0.0	1.5	1.5	18.08	10.30
3538.7	65.7	3.00	98.5	100.0	3.2	0.0	0.0	0.0	18.07	10.30
3539.0	50.6	3.00	70.7	98.2	7.5	0.0	2.2	2.0	18.05	10.30
3539.3	31.4	2.89	56.5	93.4	12.8	0.0	5.6	4.7	18.03	10.29
3540.3	48.2	2.98	63.4	96.7	9.4	0.0	3.4	3.1	18.01	10.28
3541.8	50.7	3.00	100.0	100.0	0.0	0.0	0.0	0.0	17.97	10.27
3542.1	32.0	2.89	100.0	100.0	5.0	0.0	0.0	0.0	17.96	10.27
3542.4	35.1	2.92	98.4	100.0	5.7	0.0	0.1	0.1	17.95	10.27
3542.7	36.1	2.92	71.5	71.5	6.8	0.0	1.9	0.0	17.93	10.27

DEPTH METERS	CLAY CONTENT %	AVERAGE MATRIX DENSITY GMS/CC	WATER SATURATIONS VIRGIN ZONE (f)	WATER SATURATIONS INVADED ZONE	POROSITY TOTAL %	POROSITY SECONDARY %	HYDROCARBONS TOTAL %	HYDROCARBONS MOVABLE %	CUMULATIVE INTEGRATIONS POR-MET	CUMULATIVE INTEGRATIONS HC-MET
3543.0	32.5	2.89	100.0	100.0	2.2	0.0	0.0	0.0	17.91	10.26
3543.3	38.3	2.93	100.0	100.0	0.2	0.0	0.0	0.0	17.90	10.26
3543.6	56.9	2.92	91.3	100.0	2.7	0.0	0.2	0.2	17.90	10.26
3543.9	20.5	2.88	52.3	84.2	12.5	0.0	5.9	4.0	17.90	10.26
3544.2	0.0	2.86	68.3	99.2	12.5	0.0	4.0	3.9	17.85	10.24
3544.5	21.9	2.88	76.2	94.8	9.9	0.0	2.4	1.8	17.82	10.23
3544.8	59.4	2.86	93.8	93.8	5.3	0.0	0.3	0.0	17.79	10.22
3545.1	66.9	2.88	100.0	100.0	4.0	0.0	0.0	0.0	17.77	10.22
3545.4	61.2	2.82	100.0	100.0	1.8	0.0	0.0	0.0	17.76	10.22
3545.8	41.1	2.76	38.1	98.0	9.9	0.0	6.1	5.9	17.73	10.21
3547.6	46.8	2.91	51.6	51.6	10.9	0.0	5.3	0.0	17.69	10.19
3547.9	48.5	2.96	100.0	100.0	1.2	0.0	0.0	0.0	17.67	10.18
3548.2	56.3	3.00	100.0	100.0	0.0	0.0	0.0	0.0	17.66	10.18
3548.5	52.1	3.00	100.0	100.0	0.0	0.0	0.0	0.0	17.66	10.18
3548.8	48.5	2.93	100.0	100.0	1.7	0.0	0.0	0.0	17.66	10.18
3549.1	38.7	2.91	47.3	57.5	10.5	0.0	5.5	1.1	17.65	10.18
3549.4	34.1	2.89	53.3	54.6	9.2	0.0	4.3	0.1	17.62	10.16
3549.7	37.4	2.94	45.4	72.9	8.7	0.0	4.7	2.4	17.59	10.15
3550.0	34.7	2.82	42.9	68.5	13.4	0.0	7.6	3.4	17.56	10.13
3550.3	11.3	2.82	32.4	56.1	21.1	0.0	14.3	5.0	17.51	10.10
3550.6	13.4	2.81	33.0	57.6	19.7	0.0	13.2	4.9	17.45	10.06
3550.9	17.5	2.80	36.6	60.3	17.5	0.0	11.1	4.1	17.39	10.01
3551.2	11.5	2.89	48.6	50.7	14.5	0.0	7.5	0.3	17.33	9.98
3551.5	26.4	2.89	67.7	67.7	8.1	0.0	2.6	0.0	17.30	9.97
3551.8	60.6	3.00	100.0	100.0	0.5	0.0	0.0	0.0	17.28	9.96
3552.2	35.6	2.97	56.8	93.0	5.0	0.0	2.2	1.8	17.28	9.96
3552.5	36.0	2.86	38.3	62.2	11.8	0.0	7.5	2.8	17.26	9.95
3552.8	31.1	2.84	36.1	58.8	14.9	0.0	9.5	3.4	17.23	9.93
3553.1	4.9	2.86	24.5	47.6	24.0	0.0	18.1	5.6	17.17	9.89
3553.4	0.0	2.84	21.0	43.9	26.3	0.0	20.8	6.0	17.10	9.84
3553.7	0.0	2.84	20.2	43.8	26.1	0.0	20.9	6.2	17.02	9.77
3554.0	3.7	2.83	21.2	43.5	23.2	0.0	18.3	5.2	16.94	9.71
3554.3	18.6	2.87	22.3	42.5	17.3	0.0	13.5	3.5	16.87	9.66
3554.6	23.8	2.84	26.9	54.2	14.9	0.0	10.9	4.1	16.82	9.62
3554.9	6.4	2.82	26.4	52.8	22.1	0.0	16.3	5.8	16.76	9.58
3555.2	18.5	2.79	35.5	64.4	16.5	0.0	10.6	4.8	16.70	9.53
3555.5	26.6	2.77	46.6	77.3	11.9	0.0	6.4	3.7	16.65	9.50
3555.8	38.3	2.80	55.8	82.3	8.7	0.0	3.8	2.3	16.62	9.48
3556.1	43.8	2.82	59.9	74.1	8.1	0.0	3.3	1.2	16.59	9.47
3556.4	53.1	2.86	63.4	91.8	5.7	0.0	2.1	1.6	16.57	9.46
3556.7	46.5	2.83	53.5	86.9	8.6	0.0	4.0	2.9	16.55	9.46
3557.0	33.9	2.83	51.4	58.5	12.5	0.0	6.1	0.9	16.52	9.44
3557.3	50.3	2.87	60.5	60.5	8.9	0.0	3.5	0.0	16.48	9.42
3557.6	51.5	2.84	73.0	73.5	6.4	0.0	1.7	0.0	16.46	9.42
3557.9	60.8	2.85	99.9	99.9	2.8	0.0	0.0	0.0	16.44	9.41
3558.2	41.4	2.85	68.8	70.4	8.0	0.0	2.5	0.1	16.43	9.41
3558.6	47.8	2.86	62.3	62.3	7.9	0.0	3.0	0.0	16.40	9.40

DEPTH METERS	CLAY CONTENT %	AVERAGE MATRIX DENSITY GMS/CC	WATER SATURATIONS VIRGIN ZONE (%)	WATER SATURATIONS INVADED ZONE	POROSITY TOTAL %	POROSITY SECONDARY %	HYDROCARBONS TOTAL %	HYDROCARBONS MOVABLE %	CUMULATIVE INTEGRATIONS POR-MET	CUMULATIVE INTEGRATIONS HC-MET
3558.9	56.0	2.87	82.1	82.1	4.5	0.0	0.8	0.0	16.38	9.39
3559.2	45.6	2.90	80.4	83.7	5.4	0.0	1.1	0.2	16.37	9.39
3559.5	45.2	3.00	73.8	76.9	6.3	0.0	1.7	0.2	16.35	9.39
3559.8	40.6	2.92	73.5	75.5	7.7	0.0	2.0	0.2	16.33	9.38
3560.1	48.3	2.93	80.3	80.3	6.2	0.0	1.2	0.0	16.31	9.38
3560.4	37.6	2.91	69.0	69.0	8.3	0.0	2.6	0.0	16.29	9.37
3560.7	40.8	2.92	99.9	99.9	4.0	0.0	0.0	0.0	16.26	9.36
3561.0	47.2	2.99	84.3	100.0	3.3	0.0	0.5	0.5	16.25	9.36
3561.3	42.2	2.91	62.0	95.0	7.4	0.0	2.8	2.4	16.24	9.36
3561.6	37.0	2.89	54.4	83.4	9.4	0.0	4.3	2.7	16.21	9.35
3561.9	12.6	2.86	30.8	49.7	21.7	0.0	15.0	4.1	16.18	9.33
3562.2	10.1	2.86	31.4	42.9	22.3	0.0	15.3	2.6	16.11	9.28
3562.5	17.4	2.87	35.1	45.6	19.2	0.0	12.5	2.0	16.04	9.24
3562.8	23.2	2.83	39.9	56.0	16.3	0.0	9.8	2.6	15.99	9.20
3563.1	28.8	2.80	45.5	67.9	13.2	0.0	7.2	3.0	15.94	9.17
3563.4	27.8	2.79	44.0	71.4	13.6	0.0	7.6	3.7	15.90	9.15
3563.7	22.4	2.80	41.6	64.9	16.3	0.0	9.5	3.8	15.85	9.13
3564.0	24.3	2.80	44.6	66.5	15.3	0.0	8.5	3.3	15.80	9.10
3564.3	32.4	2.81	55.0	70.7	12.4	0.0	5.6	1.9	15.76	9.07
3564.6	40.4	2.84	64.5	67.5	9.9	0.0	3.5	0.3	15.72	9.06
3565.0	57.6	2.90	73.7	99.9	3.5	0.0	0.9	0.9	15.70	9.05
3565.3	49.7	2.82	62.6	99.7	8.3	0.0	3.1	3.1	15.69	9.05
3565.6	27.3	2.82	49.5	68.7	16.8	0.0	8.5	3.2	15.65	9.03
3565.9	31.2	2.84	57.0	74.2	12.8	0.0	5.5	2.2	15.60	9.01
3566.2	38.3	2.88	60.7	74.8	10.3	0.0	4.1	1.5	15.57	8.99
3566.5	39.6	2.84	63.7	70.3	9.3	0.0	3.4	0.6	15.54	8.98
3566.8	24.9	2.80	53.6	64.0	13.6	0.0	6.3	1.4	15.51	8.97
3567.1	28.3	2.79	57.9	68.7	12.2	0.0	5.1	1.3	15.46	8.95
3567.4	30.1	2.81	55.8	63.8	12.4	0.0	5.5	1.0	15.43	8.93
3567.7	37.8	2.83	59.7	63.0	10.5	0.0	4.2	0.3	15.39	8.91
3568.0	44.6	2.83	72.1	72.1	7.5	0.0	2.1	0.0	15.36	8.90
3568.3	47.7	2.85	71.7	71.7	7.5	0.0	2.1	0.0	15.34	8.90
3568.6	55.6	2.83	100.0	100.0	2.4	0.0	0.0	0.0	15.32	8.89
3568.9	33.2	2.79	60.9	81.7	9.7	0.0	3.8	2.0	15.30	8.89
3569.2	16.4	2.84	70.1	76.5	8.4	0.0	2.5	0.5	15.27	8.87
3569.5	31.7	2.82	100.0	100.0	0.0	0.0	0.0	0.0	15.25	8.87
3569.8	51.7	3.00	100.0	100.0	0.0	0.0	0.0	0.0	15.25	8.87
3570.1	16.2	2.99	34.3	50.4	6.5	0.0	4.3	1.0	15.25	8.87
3570.7	68.0	3.00	100.0	100.0	1.5	0.0	0.0	0.0	15.24	8.86
3571.0	66.4	3.00	100.0	100.0	1.7	0.0	0.0	0.0	15.24	8.86
3571.4	59.6	3.00	91.5	91.5	3.6	0.0	0.3	0.0	15.23	8.86
3572.3	61.1	3.00	70.6	70.6	6.5	0.0	1.9	0.0	15.22	8.86
3572.9	46.2	2.92	77.1	77.1	9.8	0.0	2.3	0.0	15.19	8.86
3573.2	51.6	2.92	99.8	99.8	6.6	0.0	0.0	0.0	15.16	8.85
3573.5	54.2	2.91	100.0	100.0	4.2	0.0	0.0	0.0	15.14	8.85

DEPTH METERS	CLAY CONTENT %	AVERAGE MATRIX DENSITY GMS/CC	WATER SATURATIONS VIRGIN ZONE (;)	WATER SATURATIONS INVADED ZONE	POROSITY TOTAL %	POROSITY SECONDARY %	HYDROCARBONS TOTAL %	HYDROCARBONS MOVABLE %	CUMULATIVE INTEGRATIONS POR-MET	CUMULATIVE INTEGRATIONS HC-MET
3574.1	61.8	2.87	99.2	99.2	4.4	0.0	0.0	0.0	15.13	8.85
3574.4	58.9	2.90	88.6	88.6	5.1	0.0	0.6	0.0	15.12	8.85
3574.7	68.6	2.93	92.1	92.1	3.7	0.0	0.3	0.0	15.10	8.85
3575.0	62.5	2.90	67.6	67.6	6.4	0.0	2.1	0.0	15.09	8.85
3575.3	49.5	2.86	60.5	60.5	8.5	0.0	3.3	0.0	15.07	8.84
3575.6	38.4	2.80	70.2	73.5	7.3	0.0	2.2	0.2	15.04	8.83
3575.9	44.6	2.80	94.4	94.4	4.5	0.0	0.3	0.0	15.02	8.82
3576.2	54.7	2.85	77.8	77.8	5.0	0.0	1.1	0.0	15.01	8.82
3576.5	66.0	2.91	87.2	87.2	3.6	0.0	0.5	0.0	14.99	8.82
3576.8	57.8	2.90	78.6	78.6	5.2	0.0	1.1	0.0	14.98	8.81
3577.1	55.6	2.93	91.6	91.6	4.7	0.0	0.4	0.0	14.96	8.81
3577.4	60.7	3.00	95.4	95.4	4.1	0.0	0.2	0.0	14.95	8.81
3579.3	68.9	3.00	67.8	67.8	5.3	0.0	1.7	0.0	14.90	8.80
3579.6	50.7	3.00	72.4	72.4	6.2	0.0	1.7	0.0	14.88	8.80
3579.9	62.8	3.00	100.0	100.0	0.2	0.0	0.0	0.0	14.86	8.80
3580.5	57.8	3.00	78.3	78.3	5.7	0.0	1.2	0.0	14.86	8.80
3580.8	60.1	3.00	74.5	74.5	6.1	0.0	1.5	0.0	14.84	8.79
3581.7	60.9	3.00	65.6	65.6	6.7	0.0	2.3	0.0	14.80	8.78
3582.0	63.3	3.00	68.6	68.6	5.3	0.0	1.7	0.0	14.78	8.77
3582.3	66.7	3.00	100.0	100.0	0.0	0.0	0.0	0.0	14.77	8.77
3582.9	55.6	3.00	56.0	73.1	5.3	0.0	2.2	0.8	14.77	8.77
3583.9	69.4	3.00	58.4	58.4	6.7	0.0	2.8	0.0	14.74	8.76
3584.2	57.2	3.00	47.0	47.0	10.3	0.0	5.5	0.0	14.72	8.75
3584.5	63.9	3.00	56.2	56.2	7.7	0.0	3.4	0.0	14.69	8.74
3584.8	68.5	3.00	100.0	100.0	3.7	0.0	0.0	0.0	14.67	8.73
3585.4	57.9	2.98	100.0	100.0	6.9	0.0	0.0	0.0	14.66	8.73
3585.7	42.3	2.94	100.0	100.0	8.9	0.0	0.0	0.0	14.63	8.73
3586.0	39.6	2.98	100.0	100.0	8.6	0.0	0.0	0.0	14.61	8.73
3586.3	37.9	2.89	100.0	100.0	9.2	0.0	0.0	0.0	14.58	8.73
3586.6	35.5	2.86	76.8	93.2	10.4	0.0	2.4	1.7	14.55	8.73
3586.9	28.5	2.86	50.3	70.9	13.6	0.0	6.8	2.8	14.52	8.72
3587.2	24.5	2.87	39.9	54.3	15.0	0.0	9.0	2.2	14.47	8.69
3587.5	8.5	2.87	26.3	34.7	19.4	0.0	14.3	1.6	14.42	8.66
3587.8	0.0	2.86	13.7	25.7	21.8	0.0	18.8	2.6	14.36	8.62
3588.1	0.0	2.85	12.4	25.6	22.0	0.0	19.3	2.9	14.30	8.56
3588.4	0.0	2.85	12.5	30.3	23.9	0.0	20.9	4.3	14.23	8.50
3588.7	0.0	2.86	13.5	35.8	23.7	0.0	20.5	5.3	14.15	8.43
3589.0	3.0	2.83	15.6	40.5	21.5	0.0	18.2	5.3	14.09	8.38
3589.3	6.0	2.85	17.5	41.4	20.9	0.0	17.2	5.0	14.02	8.32
3589.6	30.4	2.84	25.4	51.4	13.1	0.0	9.8	3.4	13.96	8.27
3589.9	24.7	2.84	23.6	47.9	14.9	0.0	11.4	3.6	13.92	8.24

DEPTH METERS	CLAY CONTENT %	AVERAGE MATRIX DENSITY GMS/CC	WATER SATURATIONS VIRGIN ZONE (%)	WATER SATURATIONS INVADED ZONE	POROSITY TOTAL %	POROSITY SECONDARY %	HYDROCARBONS TOTAL %	HYDROCARBONS MOVABLE %	CUMULATIVE INTEGRATIONS POR-MET	CUMULATIVE INTEGRATIONS HC-MET
3590.3	4.0	2.84	19.3	40.5	21.3	0.0	17.1	4.5	13.86	8.20
3590.6	23.7	2.84	26.7	48.3	15.5	0.0	11.4	3.3	13.80	8.15
3590.9	27.8	2.84	30.3	48.7	14.3	0.0	9.9	2.6	13.76	8.12
3591.2	35.1	2.84	34.4	53.4	11.5	0.0	7.5	2.2	13.72	8.09
3591.5	36.9	2.85	33.4	51.4	11.9	0.0	7.9	2.1	13.68	8.07
3591.8	29.4	2.82	29.3	54.7	11.8	0.0	8.3	3.0	13.65	8.04
3592.1	10.6	2.82	19.0	44.9	17.8	0.0	14.5	4.6	13.61	8.01
3592.4	0.0	2.81	13.2	36.2	23.5	0.0	20.4	5.4	13.55	7.96
3592.7	0.0	2.80	11.3	36.3	23.8	0.0	21.1	5.9	13.48	7.90
3593.0	0.0	2.79	10.6	37.1	24.1	0.0	21.6	6.4	13.40	7.84
3593.3	0.0	2.77	11.2	41.3	22.7	0.0	20.2	6.8	13.33	7.77
3593.6	0.0	2.77	13.2	43.7	21.5	0.0	18.7	6.6	13.26	7.71
3593.9	0.0	2.81	14.8	38.0	22.3	0.0	19.0	5.2	13.20	7.65
3594.2	4.8	2.84	17.2	39.6	19.9	0.0	16.5	4.4	13.13	7.60
3594.5	14.5	2.85	18.8	41.2	17.7	0.0	14.3	3.9	13.07	7.55
3594.8	0.9	2.86	16.1	35.9	22.5	0.0	18.9	4.5	13.02	7.50
3595.1	7.3	2.87	16.9	38.4	20.6	0.0	17.3	4.5	12.95	7.45
3595.4	18.7	2.85	19.7	42.6	17.0	0.0	13.7	3.9	12.89	7.40
3595.7	13.4	2.83	20.0	43.3	17.3	0.0	13.9	4.0	12.84	7.36
3596.0	11.6	2.83	20.3	42.7	17.3	0.0	13.8	3.9	12.79	7.32
3596.3	7.3	2.84	18.9	39.5	19.1	0.0	15.5	3.9	12.73	7.28
3596.7	14.7	2.83	20.8	43.9	16.6	0.0	13.1	3.8	12.68	7.23
3597.0	12.5	2.83	20.4	43.9	17.5	0.0	13.9	4.1	12.63	7.19
3597.3	24.7	2.84	23.3	47.6	14.9	0.0	11.4	3.6	12.58	7.15
3597.6	20.6	2.83	23.4	47.9	15.1	0.0	11.6	3.7	12.53	7.12
3597.9	6.4	2.84	18.7	40.0	19.7	0.0	16.0	4.2	12.48	7.08
3598.2	0.0	2.87	17.0	35.8	22.9	0.0	19.0	4.3	12.42	7.03
3598.5	0.7	2.86	18.9	39.1	22.4	0.0	18.2	4.5	12.35	6.97
3598.8	16.3	2.82	24.9	49.0	17.0	0.0	12.8	4.1	12.29	6.92
3599.1	21.1	2.83	26.3	50.1	15.9	0.0	11.8	3.8	12.23	6.88
3599.4	28.6	2.83	29.5	55.0	13.4	0.0	9.4	3.4	12.19	6.85
3599.7	28.1	2.82	31.2	56.9	13.4	0.0	9.2	3.4	12.15	6.81
3600.0	38.2	2.84	33.4	58.5	11.3	0.0	7.6	2.8	12.11	6.79
3600.3	28.3	2.83	28.3	53.2	14.0	0.0	10.1	3.5	12.07	6.76
3600.6	26.7	2.82	28.2	54.0	13.9	0.0	10.0	3.6	12.03	6.73
3600.9	14.4	2.84	23.6	44.0	18.2	0.0	13.9	3.7	11.98	6.70
3601.2	6.1	2.83	21.1	40.9	19.5	0.0	15.4	3.9	11.93	6.66
3601.5	0.0	2.77	18.0	46.3	18.8	0.0	15.4	5.3	11.87	6.61
3601.8	0.0	2.74	13.1	43.4	21.5	0.0	18.7	6.5	11.81	6.56
3602.1	0.0	2.76	12.4	43.2	21.2	0.0	18.6	6.5	11.74	6.50
3602.4	0.0	2.79	12.2	38.4	22.5	0.0	19.7	5.9	11.68	6.45
3602.7	0.0	2.81	11.5	36.2	22.3	0.0	19.7	5.5	11.61	6.39
3603.1	0.0	2.76	11.0	41.9	20.0	0.0	17.8	6.2	11.54	6.33
3603.4	0.0	2.72	10.5	44.0	20.5	0.0	18.4	6.9	11.48	6.27
3603.7	0.0	2.73	11.1	44.3	21.0	0.0	18.7	7.0	11.42	6.22
3604.0	0.0	2.74	12.4	44.1	20.5	0.0	18.0	6.5	11.36	6.16
3604.3	0.0	2.78	12.2	39.1	22.1	0.0	19.4	5.9	11.29	6.11
3604.6	0.0	2.79	12.1	39.1	21.9	0.0	19.2	5.9	11.21	6.05

DEPTH METERS	CLAY CONTENT %	AVERAGE MATRIX DENSITY GMS/CC	WATER SATURATIONS VIRGIN ZONE (%)	WATER SATURATIONS INVADED ZONE	POROSITY TOTAL %	POROSITY SECONDARY %	HYDROCARBONS TOTAL %	HYDROCARBONS MOVABLE %	CUMULATIVE INTEGRATIONS POR-MET	CUMULATIVE INTEGRATIONS HC-MET
3604.9	0.0	2.79	12.4	40.3	21.3	0.0	18.6	5.9	11.16	5.99
3605.2	0.0	2.78	12.4	40.0	21.8	0.0	19.1	6.0	11.10	5.93
3605.5	0.0	2.77	13.5	45.4	20.2	0.0	17.5	6.4	11.03	5.87
3605.8	0.0	2.77	13.8	45.8	20.8	0.0	18.0	6.7	10.97	5.82
3606.1	0.0	2.78	13.6	41.6	22.0	0.0	19.0	6.2	10.90	5.77
3606.4	0.0	2.78	13.6	41.0	22.2	0.0	19.2	6.1	10.84	5.71
3606.7	0.0	2.79	14.8	44.2	20.7	0.0	17.7	6.1	10.77	5.65
3607.0	0.0	2.79	14.8	41.9	21.8	0.0	18.6	5.9	10.71	5.60
3607.3	0.0	2.79	15.5	42.2	21.6	0.0	18.3	5.8	10.64	5.54
3607.6	0.0	2.81	16.0	41.3	21.8	0.0	18.3	5.5	10.57	5.49
3607.9	0.0	2.82	16.3	39.9	22.2	0.0	18.6	5.2	10.51	5.43
3608.2	0.0	2.81	17.4	41.0	21.6	0.0	17.8	5.1	10.44	5.37
3608.5	0.0	2.82	18.0	41.6	21.8	0.0	17.9	5.1	10.38	5.32
3608.8	3.8	2.81	20.3	47.2	19.7	0.0	15.7	5.3	10.31	5.27
3609.1	0.0	2.81	19.9	45.2	21.7	0.0	17.3	5.5	10.25	5.22
3609.5	3.5	2.80	22.4	48.9	19.6	0.0	15.2	5.2	10.18	5.17
3609.8	9.0	2.79	25.0	53.3	17.5	0.0	13.1	4.9	10.13	5.12
3610.1	8.1	2.79	26.0	51.1	17.7	0.0	13.1	4.4	10.07	5.08
3610.4	8.6	2.82	23.6	46.3	18.7	0.0	14.3	4.3	10.02	5.04
3610.7	2.6	2.84	20.2	42.4	21.1	0.0	16.9	4.7	9.96	5.00
3611.0	0.4	2.84	19.0	41.9	22.2	0.0	18.0	5.1	9.89	4.94
3611.3	3.9	2.83	20.5	45.4	21.4	0.0	17.1	5.3	9.83	4.89
3611.6	17.2	2.80	27.7	57.7	16.1	0.0	11.6	4.8	9.77	4.84
3611.9	15.8	2.79	28.5	60.5	16.3	0.0	11.8	5.2	9.72	4.81
3612.2	20.9	2.79	32.4	64.7	14.7	0.0	9.9	4.7	9.67	4.77
3612.5	18.1	2.79	32.4	59.4	15.4	0.0	10.4	4.2	9.62	4.74
3612.8	28.3	2.80	45.5	61.9	11.8	0.0	6.4	1.9	9.58	4.71
3613.1	23.9	2.82	39.0	54.5	14.7	0.0	8.9	2.3	9.54	4.69
3613.4	28.9	2.81	43.9	62.5	12.6	0.0	7.1	2.4	9.50	4.66
3613.7	25.0	2.80	41.7	61.4	14.1	0.0	8.2	2.8	9.46	4.64
3614.0	27.3	2.80	45.6	62.3	13.0	0.0	7.1	2.2	9.41	4.62
3614.3	34.9	2.81	52.7	65.0	10.4	0.0	4.9	1.3	9.37	4.59
3614.6	34.2	2.80	50.1	67.2	10.3	0.0	5.1	1.7	9.34	4.58
3614.9	16.2	2.79	38.3	63.2	13.9	0.0	8.6	3.5	9.31	4.56
3615.2	0.0	2.82	48.2	65.3	10.3	0.0	5.4	1.8	9.26	4.53
3615.5	6.3	2.80	70.5	70.5	5.1	0.0	1.5	0.0	9.24	4.52
3615.9	29.1	2.87	100.0	100.0	0.0	0.0	0.0	0.0	9.23	4.52
3616.2	10.7	2.84	48.1	74.0	2.6	0.0	1.1	0.7	9.22	4.52
3616.5	15.4	2.81	43.7	65.9	3.8	0.0	2.1	0.8	9.22	4.51
3616.8	55.2	2.87	100.0	100.0	0.0	0.0	0.0	0.0	9.21	4.51
3617.1	69.1	2.88	84.7	84.7	2.6	0.0	0.4	0.0	9.21	4.51
3617.4	55.6	2.87	58.3	58.5	6.8	0.0	2.8	0.0	9.20	4.50
3617.7	48.6	2.87	69.1	69.1	4.9	0.0	1.5	0.0	9.18	4.50
3618.0	15.6	2.84	75.4	75.4	6.8	0.0	1.7	0.0	9.16	4.49
3618.3	46.0	2.86	100.0	100.0	0.0	0.0	0.0	0.0	9.14	4.49
3618.6	54.1	2.93	100.0	100.0	0.0	0.0	0.0	0.0	9.14	4.49
3618.9	55.6	2.90	95.0	95.0	1.4	0.0	0.1	0.0	9.14	4.49
3619.2	28.7	2.85	81.8	81.8	3.9	0.0	0.7	0.0	9.14	4.49

DEPTH METERS	CLAY CONTENT %	AVERAGE MATRIX DENSITY GMS/CC	WATER SATURATIONS VIRGIN ZONE (%)	WATER SATURATIONS INVADED ZONE	POROSITY TOTAL %	POROSITY SECONDARY %	HYDROCARBONS TOTAL MOVABLE %	HYDROCARBONS TOTAL MOVABLE %	CUMULATIVE INTEGRATIONS POR-MET	CUMULATIVE INTEGRATIONS HC-MET
3619.5	38.6	2.84	100.0	100.0	0.0	0.0	0.0	0.0	9.13	4.49
3619.8	27.0	2.86	95.5	95.5	1.6	0.0	0.1	0.0	9.13	4.49
3620.1	23.4	2.81	100.0	100.0	1.2	0.0	0.0	0.0	9.13	4.49
3620.4	17.5	2.78	49.9	49.9	5.1	0.0	2.5	0.0	9.12	4.49
3620.7	14.4	2.81	16.4	34.3	12.8	0.0	10.7	2.3	9.10	4.47
3621.0	0.0	2.80	14.1	35.5	23.7	0.0	20.3	5.0	9.05	4.43
3621.3	0.0	2.81	15.0	36.8	24.1	0.0	20.5	5.7	8.98	4.37
3621.6	0.0	2.79	16.8	41.6	23.0	0.0	19.1	5.7	8.91	4.30
3622.0	0.0	2.81	18.7	41.6	22.6	0.0	18.4	5.2	8.84	4.25
3622.3	14.2	2.81	35.7	50.4	14.9	0.0	9.6	2.2	8.77	4.19
3622.6	56.8	2.87	70.0	70.0	3.8	0.0	1.1	0.0	8.73	4.17
3622.9	58.2	2.90	95.8	95.8	1.7	0.0	0.1	0.0	8.72	4.17
3623.2	4.6	2.87	68.4	71.2	8.2	0.0	2.6	0.2	8.71	4.17
3623.5	28.8	2.81	100.0	100.0	0.0	0.0	0.0	0.0	8.69	4.16
3623.8	58.2	2.97	100.0	100.0	0.0	0.0	0.0	0.0	8.69	4.16
3624.7	65.7	2.92	100.0	100.0	2.4	0.0	0.0	0.0	8.68	4.16
3625.0	67.0	2.90	100.0	100.0	2.5	0.0	0.0	0.0	8.67	4.16
3625.3	40.1	2.89	77.0	77.0	7.8	0.0	1.8	0.0	8.66	4.16
3625.6	35.3	2.90	82.3	82.3	7.9	0.0	1.4	0.0	8.64	4.16
3625.9	59.7	2.91	100.0	100.0	2.1	0.0	0.0	0.0	8.62	4.15
3626.2	68.6	2.94	100.0	100.0	0.0	0.0	0.0	0.0	8.61	4.15
3627.4	68.0	2.92	99.7	99.7	2.1	0.0	0.0	0.0	8.61	4.15
3628.0	55.9	3.00	89.3	89.3	3.4	0.0	0.4	0.0	8.60	4.15
3630.2	56.9	2.89	52.4	52.4	8.0	0.0	3.8	0.0	8.58	4.15
3631.4	56.8	3.00	79.1	79.1	5.3	0.0	1.1	0.0	8.54	4.13
3631.7	60.9	3.00	99.9	99.9	3.4	0.0	0.0	0.0	8.53	4.13
3632.9	0.0	2.86	100.0	100.0	0.0	0.0	0.0	0.0	8.52	4.13
3633.8	67.8	2.95	100.0	100.0	0.0	0.0	0.0	0.0	8.52	4.13
3634.1	53.7	2.84	100.0	100.0	0.0	0.0	0.0	0.0	8.52	4.13
3634.4	52.2	2.91	100.0	100.0	0.0	0.0	0.0	0.0	8.52	4.13
3634.8	57.8	2.98	100.0	100.0	0.0	0.0	0.0	0.0	8.52	4.13
3635.1	64.0	3.00	100.0	100.0	0.0	0.0	0.0	0.0	8.52	4.13
3635.4	54.8	2.96	100.0	100.0	0.0	0.0	0.0	0.0	8.52	4.13
3635.7	53.8	2.97	100.0	100.0	0.0	0.0	0.0	0.0	8.52	4.13
3636.0	38.4	2.91	100.0	100.0	0.0	0.0	0.0	0.0	8.52	4.13
3636.3	60.9	2.95	100.0	100.0	0.0	0.0	0.0	0.0	8.52	4.13
3638.1	65.4	2.86	100.0	100.0	3.3	0.0	0.0	0.0	8.51	4.13
3640.2	67.8	2.94	100.0	100.0	0.2	0.0	0.0	0.0	8.50	4.13
3640.5	61.3	2.86	100.0	100.0	2.3	0.0	0.0	0.0	8.48	4.11

DEPTH METERS	CLAY CONTENT %	AVERAGE MATRIX DENSITY GMS/CC	WATER SATURATIONS VIRGIN ZONE (;)	WATER SATURATIONS INVADED ZONE	POROSITY TOTAL %	POROSITY SECONDARY %	HYDROCARBONS TOTAL MOVABLE %	HYDROCARBONS TOTAL MOVABLE %	CUMULATIVE INTEGRATIONS POR-MET	CUMULATIVE INTEGRATIONS HC-MET
3640.8	37.4	2.77	71.3	79.2	8.3	0.0	2.4	0.7	8.48	4.13
3641.2	17.8	2.71	48.7	66.7	14.1	0.0	7.2	2.5	8.45	4.12
3641.5	23.8	2.73	49.2	62.5	13.2	0.0	6.7	1.8	8.41	4.10
3641.8	28.0	2.74	54.9	68.7	11.4	0.0	5.1	1.6	8.37	4.08
3642.1	22.5	2.72	42.7	70.8	13.1	0.0	7.5	3.7	8.33	4.06
3642.4	18.6	2.71	49.2	64.4	15.1	0.0	7.7	2.3	8.29	4.04
3642.7	19.0	2.71	54.1	63.6	14.4	0.0	6.6	1.4	8.24	4.01
3643.0	28.7	2.74	59.2	72.0	11.9	0.0	4.9	1.5	8.20	3.99
3643.3	37.6	2.77	59.9	69.3	9.9	0.0	4.0	0.9	8.17	3.98
3643.6	26.0	2.78	50.3	54.9	12.0	0.0	6.0	0.6	8.13	3.97
3643.9	54.3	2.83	56.3	63.9	6.3	0.0	2.7	0.5	8.10	3.95
3644.2	27.0	2.74	37.2	58.9	13.0	0.0	8.2	2.8	8.08	3.94
3644.5	25.3	2.74	33.1	55.9	14.2	0.0	9.5	3.2	8.04	3.91
3644.8	21.3	2.72	29.9	54.6	15.2	0.0	10.6	3.7	8.00	3.89
3645.1	7.5	2.67	23.1	49.3	19.2	0.0	14.8	5.0	7.95	3.85
3645.4	3.9	2.66	19.6	48.4	20.9	0.0	16.8	6.0	7.89	3.80
3645.7	3.6	2.66	20.1	51.7	20.4	0.0	16.3	6.5	7.83	3.75
3646.0	5.8	2.67	22.5	51.8	20.2	0.0	15.6	5.9	7.76	3.70
3646.3	1.3	2.65	24.1	54.3	19.0	0.0	14.4	5.7	7.70	3.66
3646.6	11.7	2.69	29.1	63.9	13.9	0.0	9.9	4.8	7.65	3.62
3646.9	8.6	2.68	28.8	58.2	14.8	0.0	10.6	4.4	7.61	3.59
3647.2	13.2	2.69	24.9	49.1	17.3	0.0	13.0	4.2	7.56	3.55
3647.6	15.1	2.70	24.1	50.5	18.1	0.0	13.7	4.8	7.51	3.51
3647.9	19.4	2.71	25.4	51.9	17.6	0.0	13.1	4.7	7.45	3.47
3648.2	13.9	2.70	23.8	45.4	20.0	0.0	15.2	4.3	7.40	3.43
3648.5	18.2	2.71	23.6	40.7	18.2	0.0	13.9	3.1	7.34	3.38
3648.8	18.6	2.71	20.7	37.5	17.5	0.0	13.9	2.9	7.28	3.34
3649.1	15.6	2.71	16.4	33.8	18.5	0.0	15.5	3.2	7.23	3.30
3649.4	7.9	2.68	14.6	29.2	20.7	0.0	17.6	3.0	7.17	3.25
3649.7	0.0	2.64	12.1	25.4	24.1	0.0	21.2	3.2	7.11	3.19
3650.0	0.0	2.65	10.4	21.8	25.9	0.0	23.2	3.0	7.03	3.13
3650.3	0.0	2.69	9.7	11.1	27.0	0.0	24.4	0.4	6.95	3.06
3653.0	0.0	2.65	12.3	13.8	27.0	0.0	23.7	0.4	6.91	3.02
3653.3	0.0	2.65	14.8	37.5	20.9	0.0	17.8	4.8	6.83	2.95
3653.6	0.0	2.67	17.9	39.6	19.6	0.0	16.3	4.3	6.77	2.90
3654.0	5.3	2.69	18.7	40.8	18.5	0.0	15.1	4.1	6.71	2.85
3654.3	9.0	2.69	20.3	41.7	17.4	0.0	13.9	3.7	6.65	2.81
3654.6	7.8	2.68	20.4	41.9	17.6	0.0	14.0	3.8	6.60	2.76
3654.9	8.5	2.68	19.4	40.3	17.6	0.0	14.2	3.7	6.55	2.72
3655.2	0.7	2.66	17.0	38.2	19.4	0.0	16.1	4.1	6.49	2.67
3655.5	3.0	2.66	15.8	39.6	19.5	0.0	16.4	4.6	6.43	2.63
3655.8	1.8	2.66	15.5	40.3	20.0	0.0	16.9	4.9	6.37	2.58
3656.1	0.1	2.66	15.3	38.7	20.3	0.0	17.2	4.8	6.32	2.53
3656.4	2.2	2.66	15.0	38.9	19.6	0.0	16.6	4.7	6.25	2.47
3656.7	1.8	2.66	13.5	37.5	20.5	0.0	17.7	4.9	6.19	2.42
3657.0	8.8	2.68	13.2	40.6	18.7	0.0	16.2	5.1	6.13	2.37
3657.3	11.7	2.69	13.3	43.1	17.5	0.0	15.2	5.2	6.08	2.32

DEPTH METERS	CLAY CONTENT %	AVERAGE MATRIX DENSITY GMS/CC	WATER SATURATIONS VIRGIN ZONE (;)	WATER SATURATIONS INVADED ZONE	POROSITY TOTAL %	POROSITY SECONDARY %	HYDROCARBONS TOTAL %	HYDROCARBONS MOVABLE %	CUMULATIVE INTEGRATIONS POR-MET	CUMULATIVE INTEGRATIONS HC-MET
3657.6	5.1	2.67	12.7	39.4	18.7	0.0	16.4	5.0	6.02	2.27
3657.9	5.5	2.67	12.8	39.7	18.6	0.0	16.2	5.0	5.96	2.22
3658.2	4.3	2.67	12.9	38.7	19.7	0.0	17.1	5.1	5.91	2.17
3658.5	5.9	2.67	13.5	37.7	19.6	0.0	17.0	4.8	5.85	2.12
3658.8	9.3	2.69	14.6	38.8	18.0	0.0	15.4	4.4	5.79	2.07
3659.1	9.5	2.68	14.9	37.5	17.6	0.0	15.0	4.0	5.73	2.02
3659.4	17.3	2.71	16.8	40.2	14.8	0.0	12.3	3.5	5.68	1.98
3659.7	14.2	2.70	16.3	39.3	16.5	0.0	13.8	3.8	5.64	1.94
3660.1	12.3	2.69	17.3	42.6	16.7	0.0	13.8	4.2	5.59	1.90
3660.4	15.8	2.70	20.0	45.5	15.1	0.0	12.1	3.8	5.53	1.86
3660.7	23.0	2.74	23.0	47.8	12.5	0.0	9.6	3.1	5.49	1.82
3661.0	13.0	2.70	22.8	43.9	14.0	0.0	10.8	2.9	5.45	1.80
3661.3	15.4	2.70	24.7	43.7	12.9	0.0	9.7	2.5	5.41	1.76
3661.6	21.0	2.72	23.9	45.4	11.2	0.0	8.5	2.4	5.37	1.73
3661.9	23.9	2.75	28.5	52.8	9.9	0.0	7.1	2.4	5.34	1.71
3662.2	20.4	2.74	42.7	51.9	12.3	0.0	7.1	1.1	5.30	1.68
3662.5	37.5	2.79	48.9	48.9	9.8	0.0	5.0	0.0	5.27	1.66
3662.8	51.8	2.87	58.6	58.6	6.2	0.0	2.5	0.0	5.24	1.65
3663.1	32.3	2.84	55.4	58.6	7.9	0.0	3.5	0.2	5.22	1.64
3663.4	0.0	2.74	37.2	52.5	15.0	0.0	9.4	2.3	5.19	1.63
3663.7	0.0	2.73	46.0	56.4	10.9	0.0	5.9	1.1	5.14	1.60
3664.0	15.8	2.77	99.1	99.1	3.6	0.0	0.0	0.0	5.11	1.58
3664.3	18.7	2.79	100.0	100.0	0.5	0.0	0.0	0.0	5.11	1.58
3664.6	21.4	2.78	100.0	100.0	0.0	0.0	0.0	0.0	5.11	1.58
3664.9	32.2	2.82	100.0	100.0	0.0	0.0	0.0	0.0	5.11	1.58
3665.2	36.1	2.83	100.0	100.0	0.0	0.0	0.0	0.0	5.11	1.58
3665.5	40.2	2.80	100.0	100.0	0.0	0.0	0.0	0.0	5.11	1.58
3665.8	43.8	2.79	100.0	100.0	0.0	0.0	0.0	0.0	5.11	1.58
3666.1	49.2	2.82	100.0	100.0	2.3	0.0	0.0	0.0	5.11	1.58
3666.5	26.4	2.81	87.6	87.6	8.9	0.0	1.1	0.0	5.09	1.58
3666.8	35.5	2.86	100.0	100.0	5.9	0.0	0.0	0.0	5.07	1.58
3667.1	36.4	2.86	100.0	100.0	4.4	0.0	0.0	0.0	5.05	1.58
3667.4	46.4	2.89	100.0	100.0	2.2	0.0	0.0	0.0	5.03	1.58
3667.7	44.7	2.87	99.1	99.1	4.5	0.0	0.0	0.0	5.03	1.58
3668.0	43.8	2.84	65.8	71.9	7.5	0.0	2.6	0.5	5.01	1.58
3668.3	19.4	2.72	36.7	47.7	17.7	0.0	11.2	1.9	4.98	1.56
3668.6	21.2	2.72	35.2	49.1	17.4	0.0	11.3	2.4	4.93	1.53
3668.9	17.0	2.71	35.7	52.2	17.1	0.0	11.0	2.8	4.87	1.49
3669.2	11.4	2.69	36.4	51.2	17.2	0.0	10.9	2.5	4.82	1.46
3669.5	18.6	2.71	40.8	52.4	14.4	0.0	8.5	1.7	4.77	1.43
3669.8	31.2	2.76	49.4	58.6	10.3	0.0	5.2	0.9	4.73	1.41
3670.1	13.2	2.70	40.5	55.8	14.2	0.0	8.5	2.2	4.70	1.39
3670.4	2.9	2.70	36.9	56.4	15.9	0.0	10.0	3.1	4.65	1.36
3670.7	0.8	2.72	34.7	49.6	17.0	0.0	11.1	2.5	4.60	1.33
3671.0	0.0	2.75	32.4	40.0	19.5	0.0	13.2	1.5	4.55	1.29
3671.3	0.0	2.70	30.6	34.7	21.9	0.0	15.2	0.9	4.49	1.25
3671.6	0.0	2.65	17.5	33.4	25.8	0.0	21.3	4.1	4.42	1.21
3671.9	0.0	2.58	18.9	36.1	21.0	0.0	21.4	4.8	4.44	1.14

DEPTH METERS	CLAY CONTENT %	AVERAGE MATRIX DENSITY GMS/CC	WATER SATURATIONS VIRGIN ZONE (;)	WATER SATURATIONS INVADED ZONE	POROSITY TOTAL %	POROSITY SECONDARY %	HYDROCARBONS TOTAL %	HYDROCARBONS MOVABLE %	CUMULATIVE INTEGRATIONS POR-MET	CUMULATIVE INTEGRATIONS HC-MET
3672.2	0.0	2.61	19.7	23.0	27.0	0.0	21.7	0.9	4.26	1.07
3675.6	19.4	2.80	13.2	20.0	21.8	0.0	18.9	1.5	4.18	1.00
3675.9	27.9	2.98	17.7	32.1	19.5	0.0	16.0	2.8	4.11	0.95
3676.8	35.5	2.97	52.6	98.2	9.9	0.0	4.7	4.5	4.03	0.89
3677.1	0.0	2.99	42.8	91.7	15.7	0.0	9.0	7.7	3.99	0.88
3677.4	69.8	3.00	100.0	100.0	0.0	0.0	0.0	0.0	3.95	0.85
3679.9	59.1	2.98	100.0	100.0	1.5	0.0	0.0	0.0	3.95	0.85
3680.2	5.7	2.91	68.8	81.9	11.2	0.0	3.5	1.5	3.93	0.85
3680.5	0.0	2.94	63.4	71.0	12.6	0.0	4.6	1.0	3.90	0.84
3680.8	16.6	2.92	54.0	56.6	13.2	0.0	6.1	0.6	3.86	0.82
3681.1	49.0	2.93	68.8	68.8	7.2	0.0	2.2	0.0	3.83	0.81
3681.4	39.8	2.88	53.5	53.7	11.7	0.0	5.5	0.0	3.80	0.80
3681.7	23.0	2.85	45.1	53.2	16.4	0.0	9.0	1.3	3.76	0.78
3682.0	4.1	2.79	40.6	52.4	20.0	0.0	11.9	2.4	3.71	0.75
3682.3	24.6	2.82	49.4	58.0	14.0	0.0	7.1	1.2	3.65	0.71
3682.6	64.0	2.91	73.0	73.0	5.7	0.0	1.5	0.0	3.62	0.70
3683.2	51.0	2.96	44.8	83.9	7.7	0.0	4.2	3.0	3.59	0.69
3683.8	9.7	2.81	53.2	72.2	15.9	0.0	7.4	3.0	3.57	0.68
3684.1	17.7	2.83	65.8	65.8	12.9	0.0	4.4	0.0	3.52	0.65
3684.4	47.6	3.00	100.0	100.0	3.1	0.0	0.0	0.0	3.50	0.65
3684.7	51.9	3.00	100.0	100.0	3.1	0.0	0.0	0.0	3.49	0.65
3685.0	42.1	2.96	100.0	100.0	3.4	0.0	0.0	0.0	3.48	0.65
3685.3	42.9	2.99	100.0	100.0	1.0	0.0	0.0	0.0	3.47	0.65
3685.7	49.6	3.00	100.0	100.0	0.0	0.0	0.0	0.0	3.47	0.65
3686.0	56.1	3.00	100.0	100.0	2.2	0.0	0.0	0.0	3.47	0.65
3686.3	30.6	2.94	76.5	99.9	7.8	0.0	1.8	1.8	3.46	0.65
3686.6	0.0	2.91	60.6	99.7	15.5	0.0	6.1	6.1	3.43	0.63
3686.9	0.0	2.98	55.0	88.8	17.8	0.0	8.0	6.0	3.38	0.61
3687.2	0.0	2.98	50.8	62.0	20.7	0.0	10.2	2.3	3.32	0.59
3687.5	0.0	2.96	49.0	49.0	23.2	0.0	11.8	0.0	3.26	0.56
3687.8	0.0	2.93	42.4	45.3	27.0	0.0	15.6	0.8	3.18	0.52
3688.1	0.0	2.98	44.2	82.6	24.6	0.0	13.7	9.5	3.10	0.47
3688.4	0.0	2.80	35.6	91.7	27.0	0.0	17.4	15.1	3.03	0.43
3689.0	40.7	2.96	24.8	94.4	16.0	0.0	12.1	11.2	2.98	0.40
3689.3	50.4	3.00	30.5	96.4	13.4	0.0	9.3	8.8	2.93	0.36
3691.7	0.0	2.60	30.6	96.4	27.0	0.0	18.7	17.8	2.80	0.29
3692.7	66.3	3.00	100.0	100.0	0.0	0.0	0.0	0.0	2.76	0.27
3694.2	65.2	2.85	100.0	100.0	0.0	0.0	0.0	0.0	2.75	0.26
3694.5	0.0	2.78	45.5	98.9	16.3	0.0	8.9	8.7	2.73	0.25

DEPTH METERS	CLAY CONTENT %	AVERAGE MATRIX DENSITY GMS/CC	WATER SATURATIONS VIRGIN ZONE (F)	WATER SATURATIONS INVADED ZONE	POROSITY TOTAL %	POROSITY SECONDARY %	HYDROCARBONS TOTAL %	HYDROCARBONS MOVABLE %	CUMULATIVE INTEGRATIONS POR-MET	CUMULATIVE INTEGRATIONS HC-MET
3694.8	0.0	2.79	41.6	98.4	19.9	0.0	11.6	11.3	2.68	0.22
3695.7	0.0	2.73	56.0	99.5	16.5	0.0	7.3	7.2	2.59	0.18
3696.0	0.0	2.70	53.3	97.6	19.3	0.0	9.0	8.6	2.54	0.16
3696.3	0.0	2.64	56.4	71.8	18.0	0.0	7.9	2.8	2.48	0.13
3696.6	0.0	2.71	49.2	53.0	20.8	0.0	10.6	0.8	2.43	0.10
3696.9	0.0	2.71	56.6	63.8	18.8	0.0	8.2	1.3	2.36	0.07
3697.2	0.0	2.61	66.4	99.8	16.1	0.0	5.4	5.4	2.31	0.05
3697.5	56.8	2.81	100.0	100.0	0.4	0.0	0.0	0.0	2.26	0.03
3699.1	25.0	2.83	100.0	100.0	4.3	0.0	0.0	0.0	2.24	0.02
3699.4	30.6	2.82	100.0	100.0	1.5	0.0	0.0	0.0	2.23	0.02
3699.7	50.3	2.96	100.0	100.0	0.0	0.0	0.0	0.0	2.23	0.02
3700.0	37.4	2.89	100.0	100.0	0.6	0.0	0.0	0.0	2.23	0.02
3700.3	32.0	2.78	100.0	100.0	3.7	0.0	0.0	0.0	2.23	0.02
3700.6	21.9	2.74	100.0	100.0	8.8	0.0	0.0	0.0	2.21	0.02
3700.9	3.5	2.74	100.0	100.0	13.4	0.0	0.0	0.0	2.18	0.02
3701.2	0.0	2.70	100.0	100.0	16.9	0.0	0.0	0.0	2.14	0.02
3701.5	0.0	2.68	100.0	100.0	18.0	0.0	0.0	0.0	2.09	0.02
3701.8	4.4	2.68	100.0	100.0	15.8	0.0	0.0	0.0	2.03	0.02
3702.1	7.3	2.68	100.0	100.0	13.4	0.0	0.0	0.0	1.98	0.02
3702.4	12.5	2.68	100.0	100.0	16.4	0.0	0.0	0.0	1.94	0.02
3702.7	26.2	2.71	100.0	100.0	11.0	0.0	0.0	0.0	1.90	0.02
3703.0	22.0	2.69	100.0	100.0	11.9	0.0	0.0	0.0	1.86	0.02
3703.3	23.1	2.71	100.0	100.0	12.0	0.0	0.0	0.0	1.83	0.02
3703.6	18.4	2.72	100.0	100.0	12.8	0.0	0.0	0.0	1.79	0.02
3703.9	17.0	2.72	100.0	100.0	13.1	0.0	0.0	0.0	1.75	0.02
3704.2	22.8	2.72	100.0	100.0	11.4	0.0	0.0	0.0	1.71	0.02
3704.6	19.1	2.71	100.0	100.0	12.5	0.0	0.0	0.0	1.67	0.02
3704.9	18.4	2.73	97.7	97.7	14.2	0.0	0.3	0.0	1.64	0.02
3705.2	22.6	2.71	90.4	90.4	14.5	0.0	1.4	0.0	1.59	0.02
3705.5	28.9	2.71	100.0	100.0	11.2	0.0	0.0	0.0	1.55	0.02
3705.8	28.0	2.71	100.0	100.0	9.8	0.0	0.0	0.0	1.52	0.02
3706.1	35.2	2.74	100.0	100.0	6.9	0.0	0.0	0.0	1.49	0.02
3706.4	30.3	2.75	100.0	100.0	7.6	0.0	0.0	0.0	1.47	0.02
3706.7	22.2	2.75	100.0	100.0	9.7	0.0	0.0	0.0	1.44	0.02
3707.0	22.6	2.73	100.0	100.0	11.6	0.0	0.0	0.0	1.41	0.02
3707.3	10.9	2.73	100.0	100.0	13.9	0.0	0.6	0.0	1.38	0.02
3707.6	10.6	2.68	96.5	96.5	16.1	0.0	0.6	0.0	1.33	0.02
3707.9	11.1	2.67	83.1	83.1	16.0	0.0	2.7	0.0	1.28	0.01
3708.2	23.5	2.70	100.0	100.0	10.4	0.0	0.0	0.0	1.24	0.01
3708.5	52.0	2.80	100.0	100.0	2.1	0.0	0.0	0.0	1.21	0.01
3708.8	59.9	2.83	100.0	100.0	1.1	0.0	0.0	0.0	1.21	0.01
3709.1	61.4	2.83	100.0	100.0	1.3	0.0	0.0	0.0	1.20	0.01
3711.6	68.4	2.86	100.0	100.0	0.9	0.0	0.0	0.0	1.20	0.01
3712.8	61.8	2.84	100.0	100.0	3.0	0.0	0.0	0.0	1.20	0.01

DEPTH METERS	CLAY CONTENT %	AVERAGE MATRIX DENSITY GMS/CC	WATER SATURATIONS VIRGIN ZONE (f)	WATER SATURATIONS INVADED ZONE	POROSITY TOTAL %	POROSITY SECONDARY %	HYDROCARBONS TOTAL %	HYDROCARBONS MOVABLE %	CUMULATIVE INTEGRATIONS POR-MET	CUMULATIVE INTEGRATIONS HC-MET
3713.1	51.8	2.79	100.0	100.0	1.5	0.0	0.0	0.0	1.19	0.01
3713.4	47.8	2.77	100.0	100.0	2.0	0.0	0.0	0.0	1.19	0.01
3713.7	48.6	2.79	100.0	100.0	4.3	0.0	0.0	0.0	1.18	0.01
3714.0	37.5	2.75	100.0	100.0	9.4	0.0	0.0	0.0	1.16	0.01
3714.3	39.8	2.76	100.0	100.0	8.0	0.0	0.0	0.0	1.14	0.01
3714.6	37.4	2.75	100.0	100.0	8.9	0.0	0.0	0.0	1.11	0.01
3714.9	36.7	2.75	100.0	100.0	8.0	0.0	0.0	0.0	1.08	0.01
3715.2	30.3	2.75	100.0	100.0	10.2	0.0	0.0	0.0	1.06	0.01
3715.5	18.4	2.74	98.4	98.4	13.3	0.0	0.2	0.0	1.03	0.01
3715.8	14.1	2.71	98.8	98.8	14.8	0.0	0.2	0.0	0.98	0.01
3716.1	6.9	2.69	99.9	99.9	15.3	0.0	0.0	0.0	0.94	0.01
3716.4	7.8	2.66	99.8	99.8	15.1	0.0	0.0	0.0	0.89	0.01
3716.7	13.6	2.68	100.0	100.0	13.7	0.0	0.0	0.0	0.85	0.01
3717.0	16.8	2.71	99.8	99.8	13.3	0.0	0.0	0.0	0.80	0.01
3717.4	21.7	2.70	100.0	100.0	11.2	0.0	0.0	0.0	0.77	0.01
3717.7	36.6	2.74	100.0	100.0	5.8	0.0	0.0	0.0	0.74	0.01
3718.0	41.8	2.76	100.0	100.0	4.0	0.0	0.0	0.0	0.72	0.01
3718.3	30.7	2.73	100.0	100.0	8.6	0.0	0.0	0.0	0.71	0.01
3718.6	8.0	2.71	100.0	100.0	14.7	0.0	0.0	0.0	0.68	0.01
3718.9	14.7	2.70	100.0	100.0	14.6	0.0	0.0	0.0	0.63	0.01
3719.2	22.9	2.70	100.0	100.0	13.4	0.0	0.0	0.0	0.59	0.01
3719.5	46.5	2.77	100.0	100.0	1.9	0.0	0.0	0.0	0.55	0.01
3719.8	52.6	2.80	100.0	100.0	1.6	0.0	0.0	0.0	0.55	0.01
3720.1	61.7	2.84	100.0	100.0	0.0	0.0	0.0	0.0	0.54	0.01
3720.4	58.2	2.82	100.0	100.0	1.2	0.0	0.0	0.0	0.54	0.01
3720.7	40.8	2.77	100.0	100.0	7.2	0.0	0.0	0.0	0.54	0.01
3721.0	35.0	2.77	100.0	100.0	9.6	0.0	0.0	0.0	0.51	0.01
3721.3	41.1	2.76	100.0	100.0	8.2	0.0	0.0	0.0	0.48	0.01
3721.6	32.2	2.73	100.0	100.0	9.4	0.0	0.0	0.0	0.46	0.01
3721.9	18.9	2.71	100.0	100.0	10.0	0.0	0.0	0.0	0.43	0.01
3722.2	21.3	2.69	100.0	100.0	12.4	0.0	0.0	0.0	0.40	0.01
3722.5	28.8	2.74	100.0	100.0	11.0	0.0	0.0	0.0	0.36	0.01
3722.8	24.7	2.72	99.0	99.0	13.4	0.0	0.1	0.0	0.33	0.01
3723.1	26.9	2.72	90.6	90.6	14.1	0.0	1.3	0.0	0.28	0.01
3723.4	30.7	2.74	94.2	94.2	13.1	0.0	0.8	0.0	0.24	0.00
3723.8	32.8	2.73	100.0	100.0	9.2	0.0	0.0	0.0	0.20	0.00
3724.1	46.8	2.78	100.0	100.0	3.6	0.0	0.0	0.0	0.18	0.00
3724.4	52.7	2.81	100.0	100.0	3.7	0.0	0.0	0.0	0.17	0.00
3724.7	21.3	2.73	100.0	100.0	11.9	0.0	0.0	0.0	0.15	0.00
3725.0	11.6	2.67	100.0	100.0	15.4	0.0	0.0	0.0	0.11	0.00
3725.3	16.3	2.67	100.0	100.0	13.5	0.0	0.0	0.0	0.07	0.00
3725.6	25.4	2.70	100.0	100.0	9.9	0.0	0.0	0.0	0.03	0.00
3725.9	45.1	2.77	100.0	100.0	2.8	0.0	0.0	0.0	0.00	0.00

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LPTSPL V      6(344)  R          LPT050
 *START* U    TERGIMAN [513,2727] J    CORENG S   . 23470 D    17-A  -77 16:19:36 M        -EPS-602- *START*
R             : 17-A  -77  16:20:26
F   : DSKF0:COREMG.001[513,2727] C      : 17-A  -77 16:14:00 <155>  P      : 17-A  -77 16:19:57
QUEUE S       :  /PRINT:ARROW /FILE:FORT /COPIES:1 /SPACING:1 /LIMIT:194 /FORMS:NORMAL
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FINAL

CONTROL FILE = CORCON.002 INPUT FILE = PREOUT.001
ENGINEER LISTING = CORENG.001 OUTPUT ANS. = COROUT.002
SUPER PLOT CONTROL FILE = CORSUP

SCHLUMBERGER TEC. SERVICES
CORIBAND VERSION COR009 DATE 03/01/77

CONTROL CARD ECHO (DIVIDED BY ZONES)

1	MODEL	12224.000	12142.200	0.025	0.065	220.000	8.500	51.000
2	SHALE	4.500	82.000	31.000	2.600	19.000	72.000	27.000
3	X-PLOTS	2.590	2.250	50.000	50.000	90.000	48.000	0.000
4	NOVSH-1	1.000	0.000	0.000	1.000	0.000	0.000	0.000
5	NOVSH-2	0.000	1.000	0.000	0.000	0.000	0.000	0.000
6	GAS	0.750	189.000	1.000	0.000	0.000	1.000	1.300
7	MISC-1	0.000	0.000	0.000	0.000	2.000	0.000	2.000
8	MISC-2	10000.000	-4.000	0.000	0.000	0.000	0.000	0.000
9	MISC-3	0.000	2.000	0.000	1.800	100.000	100.000	0.000
10	MISC-4	0.000	3.000	0.000	0.000	0.000	0.000	0.100
11	CORIBAND	0.000	0.000	2.600	3.000	1.000	0.000	0.000
12	MISC-5	0.000	0.000	0.000	1.000	50.000	139.000	-1.000
13	LOG1	0.000	0.000	0.000	99.000	99.000	0.000	0.000
14	EXPO	0.800	0.000	0.000	0.200	0.000	0.000	0.000
15	ENDZONE	0.000	0.000	0.000	0.000	0.000	0.000	0.000
16	MODEL	12142.200	11942.100	0.030	0.072	215.000	8.500	51.000
17	SHALE	4.000	90.000	30.000	2.550	0.000	0.000	0.000
18	MISC-3	0.000	0.000	0.000	0.000	50.000	0.000	0.000
19	MISC-5	0.000	0.000	0.000	0.000	0.000	0.000	2.000
20	GAS	0.750	189.000	0.300	0.000	0.000	0.781	0.889
21	ENDZONE	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22	MODEL	11942.100	11761.600	0.030	0.072	215.000	8.500	51.000
23	SHALE	5.000	85.000	28.000	2.500	0.000	0.000	0.000
24	GAS	0.300	189.000	1.000	0.000	0.000	1.000	1.300
25	ENDZONE	0.000	0.000	0.000	0.000	0.000	0.000	0.000
26	MODEL	11761.600	11548.400	0.035	0.075	0.000	0.000	0.000
27	SHALE	4.000	92.000	33.000	2.550	0.000	0.000	0.000
28	GAS	0.300	197.100	1.000	0.000	0.000	1.000	1.300
29	ENDZONE	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	ENDP	0.000	0.000	0.000	0.000	0.000	0.000	0.000

	DEPLO	DEPUP	RW	RMF	FL TEMP	BIT SIZE	SCDA
MODEL	3725.88	3700.94	0.025	0.07	220.00	8.50	51.00

	RSH	DTSH	PHINSH	ROHSH	GR SD	GR SH	PHIMAX
SHALE	4.50	82.00	31.00	2.60	19.00	72.00	27.00

	ROB1N	ROB2N	DT1N	DT2N	DT1D	DT2D
X-PLOTS	2.59	2.25	50.00	50.00	90.00	48.00

	RON	DTF	SXOMIN	SSP	SP2	SRH FAC	EXC FAC
GAS	0.75	189.00	1.00	0.00	1.00	1.00	1.30

	CFF	EXPW	EXPXO	EXPWXO	EXPVSH	EXPA	EXPO
EXPO	0.80	2.00	2.00	0.20	1.40	0.10	1.00

	LSP	LGK	LMLL	LPL	LSNP	LCNL
LOG1	2	3	6	0	0	13

	LFD	LSL	LDP	LDRO	LRT
LOG2	14	15	9	21	22

	KSP	KRT	KXO	KGR
NOVSH-1	1.	0.	1.	0.

	KCDN	KCSN	KCDS
NOVSH-2	0.	1.	0.

	EXPAND	SMOOTH	SW EQ	LIST	EXPHI	ROHRW	UNITS
MISC-1	0.00	5.00	0.00	0.00	2.00	0.00	2.00

	RTLIM	PHIMIN	ROMF	PPK	SP1	KSO	RP MIN
MISC-2	10000.00	-4.00	1.00	37.06	1.00	0.00	0.00

	AFT. PLT	SIZE PLT	ROBCK	PHINCK	DTCK	KOBM
MISC-3	2.00	0.00	1.80	100.00	100.00	0.00

	SXOI	KOMASH	DPMIN	DROMAX
MISC-4	0.00	3.00	0.00	0.10

	ROMAX 1	SONLIM	DTMIN	COLDT	DDMAX
MISC-5	3.00	1.00	50.00	139.00	-1.00

	DTD	DTS	ROMA1	ROMA2	KSP1	SED
CORIBAND	43.50	51.20	2.60	3.00	1.00	0.00

	SNP1	SNP2	NH	RO1	RO2	DT1	DT2
MANUAL	10.00	50.00	0.00	0.00	0.00	0.00	0.00

RESCALING IS NEW=(OLD+ZERO SHIFT)*SCALE FACTOR

DEPTH	RT	RXO	PHIN	ROB	DT	VSH	ROMA	SW	SXO	POR	SPI	GR	PHIL	DD	SWP	SXP	ROMA	SH	P	CO	LI	ROH	POR-M	HC-M
						***	****	**		***													*****	****
3725.9	0.9	2.6	12.8	2.46	75	45	2.77	100	100	2.8		42	8.3	0.04	233	164	2.53	GR			+D		0.00	0.00
3725.6	0.7	2.7	12.1	2.37	75	25	2.70	100	100	9.9		32	12.8	-0.01	146	106	2.55	GR			+D		0.03	0.00
3725.3	0.6	2.4	12.4	2.39	76	16	2.67	100	100	13.5		27	15.5	-0.01	121	94	2.61	GR					0.07	0.00
3725.0	0.7	2.6	13.8	2.37	76	11	2.67	100	100	15.4		25	16.1	-0.01	107	83	2.63	GR					0.11	0.00
3724.7	0.8	3.5	16.1	2.45	76	21	2.73	100	100	11.9		30	14.0	0.29	119	83	2.67	GR					0.15	0.00
3724.4	0.9	4.3	17.0	2.51	73	52	2.81	100	100	3.7		46	5.1	0.34	195	105	2.58	GR			+D		0.17	0.00
3724.0	0.9	4.4	14.2	2.51	72	46	2.78	100	100	3.6		43	5.4	0.19	198	112	2.57	GR			+D		0.18	0.00
3723.7	1.0	4.2	15.1	2.39	73	32	2.73	100	100	9.2		36	9.2	-0.01	117	82	2.57	GR	"		+D		0.20	0.00
3723.4	1.1	3.7	18.9	2.39	78	30	2.74	94	94	13.1		35	13.1	0.04	86	68	2.62	GR	"				0.24	0.00
3723.1	1.1	4.2	17.7	2.38	79	26	2.72	90	90	14.1		33	14.8	-0.06	84	63	2.62	GR					0.28	0.01
3722.8	1.0	4.4	16.6	2.40	76	24	2.72	98	98	13.4		32	13.7	-0.10	92	65	2.63	GR					0.33	0.01
3722.5	1.0	3.3	16.2	2.45	77	28	2.74	100	100	11.0		34	13.4	-0.10	107	85	2.64	GR					0.36	0.01
3722.2	1.0	3.0	13.5	2.41	79	21	2.69	100	100	12.4		30	16.2	0.04	100	86	2.61	GR					0.40	0.01
3721.9	1.0	3.4	12.5	2.48	78	18	2.71	100	100	10.0		29	16.1	0.24	123	100	2.65	GR					0.43	0.01
3721.6	1.0	3.7	14.3	2.43	76	32	2.73	100	100	9.4		36	11.8	0.09	119	87	2.59	GR			+D		0.46	0.01
3721.3	1.0	3.3	16.6	2.41	74	41	2.76	100	100	8.2		40	8.3	-0.01	121	92	2.56	GR			+D		0.48	0.01
3721.0	1.2	2.9	17.6	2.47	80	35	2.77	100	100	9.6		37	13.9	0.24	105	95	2.65	GR					0.51	0.01
3720.7	1.4	3.5	16.1	2.50	81	40	2.77	100	100	7.2		40	13.4	0.24	114	98	2.62	GR					0.54	0.01
3720.4	1.7	5.4	16.4	2.55	72	58	2.82	100	100	1.2		53	3.0	0.24	187	115	2.57	PN			+D		0.54	0.01
3720.1	1.9	6.7	17.6	2.60	69	61	2.84	100	100	0.0		59	0.0	0.24	217	114	2.62	PN	"				0.54	0.01
3719.8	1.5	4.9	14.4	2.54	70	52	2.80	100	100	1.6		63	2.4	-0.01	201	123	2.57	PN			+D		0.55	0.01
3719.5	1.1	3.3	12.3	2.39	73	46	2.77	100	100	1.9		46	6.1	-0.01	238	159	2.45	PN			+D		0.55	0.01
3719.2	0.7	2.8	15.6	2.39	75	22	2.70	100	100	13.4		31	13.4	-0.01	113	84	2.61	GR	"				0.59	0.01
3718.9	0.5	2.0	15.3	2.40	80	14	2.70	100	100	14.6		26	16.6	-0.06	124	99	2.64	GR					0.63	0.01
3718.6	0.5	2.4	15.4	2.43	79	8	2.71	100	100	14.7		23	19.1	-0.01	131	93	2.68	GR					0.68	0.01
3718.3	0.6	3.7	13.6	2.47	73	30	2.73	100	100	8.6		35	9.9	0.09	167	94	2.62	GR					0.71	0.01
3718.0	0.9	4.2	12.6	2.46	71	41	2.76	100	100	4.0		41	5.9	0.09	203	117	2.54	GR			+D		0.72	0.01
3717.6	1.1	4.1	12.5	2.43	71	36	2.74	100	100	5.8		38	7.4	-0.01	152	107	2.55	GR			+D		0.74	0.01
3717.3	1.1	4.4	13.3	2.44	72	21	2.70	100	100	11.2		30	11.3	-0.01	104	77	2.63	GR					0.77	0.01
3717.0	1.0	4.4	15.0	2.42	75	16	2.71	99	99	13.3		27	14.4	-0.06	95	70	2.65	GR					0.80	0.01
3716.7	1.0	4.4	13.2	2.40	76	13	2.68	99	99	13.7		26	16.1	-0.01	97	70	2.63	GR					0.85	0.01
3716.4	0.9	4.2	12.7	2.39	76	7	2.66	99	99	15.1		23	17.2	-0.01	95	69	2.64	GR					0.89	0.01
3716.1	0.9	4.5	14.5	2.41	76	6	2.69	99	99	15.3		22	17.2	-0.01	96	66	2.67	GR					0.94	0.01
3715.8	0.9	5.0	16.5	2.39	75	14	2.71	98	98	14.8		26	14.8	-0.01	92	64	2.66	GR	"				0.98	0.01
3715.5	1.1	5.3	17.3	2.44	75	18	2.74	98	98	13.3		28	14.2	0.24	91	63	2.68	GR					1.03	0.01
3715.2	1.2	5.7	16.6	2.47	74	30	2.75	100	100	10.2		35	10.5	0.24	100	67	2.65	GR					1.06	0.01
3714.9	1.3	4.6	15.9	2.47	72	36	2.75	100	100	8.0		38	8.0	0.29	114	83	2.61	GR	"				1.08	0.01
3714.6	1.2	2.9	15.9	2.42	75	37	2.75	100	100	8.9		38	9.5	0.44	106	87	2.58	GR			+D		1.11	0.01
3714.3	1.1	2.3	15.8	2.42	78	39	2.76	100	100	8.0		40	11.4	0.49	118	114	2.56	GR			+D		1.14	0.01
3714.0	1.1	2.5	16.2	2.43	79	37	2.75	100	100	9.4		38	12.3	0.39	107	101	2.59	GR			+D		1.16	0.01
3713.7	1.2	3.3	15.6	2.48	77	48	2.79	100	100	4.3		44	8.9	0.29	159	119	2.55	GR			+D		1.18	0.01
3713.4	1.4	3.9	12.7	2.47	74	47	2.77	100	100	2.0		50	6.3	0.24	206	142	2.52	PN			+D		1.19	0.01
3713.1	1.7	4.0	14.1	2.46	72	51	2.79	100	100	1.5		54	4.4	0.44	191	140	2.50	PN			+D		1.19	0.01
3712.8	2.2	4.8	19.2	2.52	72	61	2.84	100	100	2.0		51	2.0	0.54	140	106	2.56	GR	"		+D		1.20	0.01
3712.5	2.6	3.6	27.8	2.53	72	86	2.94	100	100	0.0		64	0.0	1.48	142	122	2.48	GR	"		+D		1.20	0.01
3712.2	3.2	2.0	27.9	2.56	72	91	2.96	100	100	0.0		76	0.0	0.93	123	159	2.40	PN	"		+D		1.20	0.01
3711.9	3.9	2.8	21.0	2.56	72	71	2.87	100	100	0.0		76	0.0	0.64	133	157	2.57	PN	"		+D		1.20	0.01
3711.5	4.1	4.1	20.0	2.55	73	68	2.86	100	100	0.9		72	1.4	0.54	114	121	2.56	PN			+D		1.20	0.01
3711.2	4.1	3.7	23.7	2.42	72	79	2.91	100	100	0.0		70	0.0	0.59	120	126	2.25	PN	"		+D		1.20	0.01
3710.9	4.3	2.6	22.4	2.46	72	75	2.89	100	100	0.0		75	0.0	0.93	121	157	2.37	PN	"		+D		1.20	0.01

DEPTH	RT	RXO	PHIN	ROB	DT	VSH	ROMA	SW	SXO	POR	SPI	GR	PHIL	DD	SWP	SXP	ROMA	SH	P	CO	LI	ROH	POR-M	HC-M
						***	****	**		***													*****	****
3710.6	4.3	2.0	24.2	2.52	71	80	2.92	100	100	0.0		75	0.0	0.93	116	170	2.44	PN	"		+D		1.20	0.01
3710.3	3.7	1.9	25.3	2.45	73	83	2.93	100	100	0.0		75	0.0	0.93	122	171	2.24	PN	"		+D		1.20	0.01
3710.0	3.4	2.2	21.0	2.44	72	71	2.88	100	100	0.0		67	0.0	0.93	142	178	2.37	PN	"		+D		1.20	0.01
3709.7	3.2	3.2	22.7	2.43	73	76	2.89	100	100	0.0		61	0.0	0.78	140	139	2.31	PN	"		+D		1.20	0.01
3709.4	2.9	4.3	22.0	2.50	72	74	2.89	100	100	0.0		66	0.0	0.39	151	123	2.45	PN	"		+D		1.20	0.01
3709.1	2.5	3.7	17.5	2.48	73	61	2.83	100	100	1.3		60	2.9	0.34	147	132	2.49	PN			+D		1.20	0.01
3708.8	2.1	3.5	17.0	2.51	73	59	2.83	100	100	1.1		51	2.8	0.34	168	141	2.53	PN			+D		1.21	0.01
3708.5	1.7	3.3	14.8	2.47	74	51	2.80	100	100	2.1		46	5.5	0.24	173	144	2.52	GR			+D		1.21	0.01
3708.2	1.4	3.0	12.1	2.40	78	23	2.70	99	99	10.4		31	14.8	-0.01	98	98	2.59	GR			+D		1.24	0.01
3707.9	1.1	2.8	14.2	2.36	78	11	2.67	83	83	16.0		24	18.2	-0.06	80	79	2.63	GR					1.28	0.01
3707.6	0.9	2.5	15.2	2.37	78	10	2.68	96	96	16.1		24	18.4	0.09	88	83	2.65	GR					1.33	0.02
3707.3	0.8	2.9	16.6	2.45	79	10	2.73	100	100	13.9		24	18.8	0.24	107	87	2.70	GR					1.38	0.02
3707.0	0.8	3.1	15.9	2.45	78	22	2.73	100	100	11.6		30	15.4	0.29	121	90	2.66	GR					1.41	0.02
3706.7	0.7	3.2	15.2	2.50	77	22	2.75	100	100	9.7		30	14.5	0.44	144	101	2.68	GR					1.44	0.02
3706.4	0.7	3.5	14.0	2.51	76	30	2.75	100	100	7.6		35	11.9	0.44	163	105	2.65	GR					1.47	0.02
3706.1	0.8	3.2	13.0	2.43	76	35	2.74	100	100	6.9		37	10.6	0.29	160	110	2.56	GR			+D		1.49	0.02
3705.8	1.0	3.1	13.0	2.43	74	28	2.71	100	100	9.8		33	10.9	0.14	117	96	2.59	GR			+D		1.52	0.02
3705.5	1.1	2.7	14.6	2.38	75	28	2.71	99	99	11.2		34	11.7	0.04	99	93	2.58	GR			+D		1.55	0.02
3705.1	1.1	2.7	16.9	2.38	78	22	2.71	90	90	14.5		30	15.6	0.04	84	79	2.63	GR					1.59	0.02
3704.8	1.0	3.2	17.3	2.41	83	18	2.73	97	97	14.2		28	20.1	0.09	90	77	2.67	GR					1.64	0.02
3704.5	0.9	3.0	14.9	2.43	83	19	2.71	100	100	12.5		29	19.6	0.09	106	88	2.65	GR					1.67	0.02
3704.2	0.8	2.3	14.9	2.45	77	22	2.72	100	100	11.4		31	14.4	0.19	119	105	2.65	GR					1.71	0.02
3703.9	0.8	2.3	15.5	2.43	76	16	2.72	100	100	13.1		27	15.0	0.09	112	98	2.66	GR					1.75	0.02
3703.6	0.8	2.9	15.7	2.44	76	18	2.72	100	100	12.8		28	15.0	0.04	112	88	2.66	GR					1.79	0.02
3703.3	0.8	3.1	14.3	2.42	74	23	2.71	100	100	12.0		31	12.3	0.04	116	85	2.62	GR					1.83	0.02
3703.0	0.7	3.0	15.3	2.37	73	22	2.69	100	100	11.9		30	11.9	0.04	126	89	2.60	GR	"				1.86	0.02
3702.7	0.5	2.2	17.2	2.34	73	26	2.71	100	100	11.0		32	11.0	0.09	146	107	2.59	GR	"		+D		1.90	0.02
3702.4	0.4	1.6	15.9	2.35	76	12	2.68	100	100	16.4		25	16.4	0.04	122	101	2.63	GR	"				1.94	0.02
3702.1	0.4	2.3	12.4	2.43	81	7	2.68	100	100	13.4		22	20.7	-0.01	161	105	2.66	GR					1.98	0.02
3701.8	0.4	3.5	14.0	2.40	80	4	2.68	100	100	15.8		21	21.1	-0.01	141	74	2.66	GR					2.03	0.02
3701.5	0.4	2.8	15.8	2.38	76	0	2.68	100	100	16.0		18	19.1	-0.01	123	75	2.68	GR					2.09	0.02
3701.2	0.5	2.4	16.3	2.41	77	0	2.70	100	100	16.9		18	20.0	0.04	119	87	2.70	GR					2.14	0.02
3700.9	0.6	3.0	15.3	2.49	79	3	2.74	100	100	13.4		20	20.2	0.29	135	95	2.73	GR					2.18	0.02

	DEPLO	DEPUP	RW	RMF	FL TEMP	HIT SIZE	SCDA
MODEL	3700.94	3639.95	0.030	-0.07	215.00	8.50	51.00

	RSH	DTSH	PHINSH	ROBSH	GR SD	GR SH	PHIMAX
SHALE	4.00	90.00	30.00	2.55	19.00	72.00	27.00

	ROB1N	ROB2N	DT1N	DT2N	DT1D	DT2D
X-PLOTS	2.59	2.25	50.00	50.00	90.00	48.00

	ROH	DTF	SXOMIN	SSP	SP2	SRH FAC	EXC FAC
GAS	0.75	189.00	0.30	0.00	1.00	0.78	0.89

	CFF	EXPW	EXPXO	EXPWXO	EXPVSH	EXPA	EXPO
EXPO	0.80	2.00	2.00	-0.20	1.40	0.10	1.00

	LSP	LGR	LMLL	LPL	LSNP	LCNL
LOG1	2	3	6	0	0	13

	LFD	LSL	LDP	LDRO	LRT
LOG2	14	15	9	21	22

	KSP	KRT	KXO	KGR
NOVSH-1	1.	0.	1.	0.

	KCDN	KCSN	KCDS
NOVSH-2	0.	1.	0.

	EXPAND	SMOOTH	SW EQ	LIST	EXPHI	ROHRW	UNITS
MISC-1	0.00	5.00	0.00	0.00	2.00	0.00	2.00

	RTLIM	PHIMIN	ROMF	APPK	SP1	KSO	RP MIN
MISC-2	10000.00	-4.00	1.00	33.72	1.00	0.00	0.00

	AFT. PLT	SIZE PLT	ROBCK	PHINCR	DTCR	KOBM
MISC-3	2.00	0.00	1.80	50.00	100.00	0.00

	SXOI	ROMASH	DRMIN	DROMAX
MISC-4	0.00	3.00	0.00	0.10

	ROMAX 1	SORLIM	DTMIN	COEDT	ODMAX
MISC-5	3.00	1.00	50.00	139.00	2.00

	DTD	DTS	ROMA1	ROMA2	KSPI	SED
CORIBAND	43.50	51.20	2.60	3.00	1.00	0.00

	SNP1	SNP2	NH	RO1	RO2	DT1	DT2
MANUAL	10.00	50.00	0.00	0.00	0.00	0.00	0.00

RESCALING IS NEW=(OLD+ZERO SHIFT)*SCALE FACTOR

DEPTH	RT	RXO	PHIN	ROB	DT	VSH	ROMA	SW	SXO	POR	SPI	GR	PHIL	DD	SWP	SXP	ROMA	SH	P	CO	LI	ROH	POR-M	HC-M
						***	****	**		***													*****	****
3700.6	0.7	3.8	13.5	2.50	75	21	2.74	100	100	8.8		30	12.2	0.29	171	103	2.68	GR					2.21	0.02
3700.3	0.9	4.3	12.9	2.59	73	31	2.78	100	100	3.7		35	7.7	0.34	242	139	2.70	GR					2.23	0.02
3700.0	1.4	6.0	13.5	2.72	73	37	2.89	100	100	0.6		38	6.1	0.29	319	163	2.84	GR					2.23	0.02
3699.7	2.0	9.2	14.3	2.74	71	50	2.96	100	100	0.0		45	0.7	0.24	237	110	2.93	GR					2.23	0.02
3699.4	3.4	8.4	14.7	2.61	64	30	2.82	100	100	1.5		55	1.5	0.34	191	139	2.75	DS	"				2.23	0.02
3699.1	5.7	7.6	17.8	2.57	66	25	2.83	99	99	4.3		66	4.3	1.33	97	110	2.78	DS	"				2.24	0.02
3698.7	5.3	6.8	25.7	2.45	68	74	2.90	100	100	0.0		78	0.0	3.15	103	92	2.55	RT	"		+D		2.26	0.03
3698.4	3.7	3.3	36.2	2.32	75	100	3.00	100	100	0.0		78	0.0	4.09	100	100	3.00	GR			SH		2.26	0.03
3698.1	2.9	1.6	36.1	2.20	82	100	3.00	100	100	0.0		74	0.0	3.20	100	100	3.00	GR			SH		2.26	0.03
3697.8	2.3	1.4	22.8	2.15	79	78	2.91	100	100	0.0		61	0.0	2.56	151	193	2.24	PN	"		+D		2.26	0.03
3697.5	2.1	1.2	15.3	2.18	73	56	2.81	100	100	0.4		51	0.4	2.07	208	276	2.24	PN	"		+D		2.26	0.03
3697.2	2.1	1.8	12.0	2.30	72	0	2.61	66	99	16.1		41	16.1	0.83	66	110	2.61	DS	"				2.31	0.05
3696.9	2.1	4.0	24.6	2.25	76	0	2.71	56	63	18.8		49	18.8	1.28	56	63	2.71	DS	"			.85	2.36	0.07
3696.6	2.3	4.7	25.8	2.22	78	0	2.71	49	52	20.8		60	20.8	0.59	49	52	2.71	DS	"				2.43	0.10
3696.3	2.3	3.4	14.5	2.31	75	0	2.64	56	71	18.0		49	18.0	0.69	56	71	2.64	DS	"				2.48	0.13
3696.0	2.3	1.9	27.5	2.19	76	0	2.70	53	97	19.3		43	19.3	1.23	53	90	2.70	DS	"			.83	2.54	0.16
3695.7	2.8	1.1	31.6	2.18	72	0	2.73	55	99	16.5		56	16.5	1.33	55	135	2.73	DS	"				2.59	0.18
3695.4	3.4	0.6	32.0	2.31	76	95	3.00	100	100	0.0		69	0.0	1.38	111	274	3.20	GR	"		NE		2.62	0.19
3695.1	3.2	0.8	36.3	2.39	75	99	3.00	100	100	0.0		71	0.0	1.28	100	100	3.00	GR			SH		2.62	0.19
3694.8	3.5	1.1	28.1	2.34	77	0	2.79	41	98	19.9		61	19.9	0.73	41	117	2.79	DS	"				2.68	0.22
3694.5	4.4	1.1	27.2	2.34	72	0	2.78	45	98	16.3		62	16.3	0.83	45	143	2.78	DS	"				2.73	0.25
3694.2	3.7	2.1	18.2	2.46	69	65	2.85	100	100	0.0		60	0.0	0.73	139	185	2.49	PN	"		+D		2.75	0.26
3693.9	3.0	2.9	26.9	2.49	81	85	2.94	100	100	0.0		64	0.0	0.49	126	128	2.52	GR	"		+D		2.75	0.26
3693.6	3.0	1.7	40.9	2.17	96	100	3.00	100	100	0.0		83	4.8	3.60	100	100	3.00	GR			SH		2.76	0.27
3693.3	2.8	0.6	43.6	1.78	103	100	3.00	100	100	0.0		87	9.5	5.23	100	100	3.00	GR			SH		2.76	0.27
3693.0	3.8	0.2	48.1	1.71	85	100	3.00	100	100	0.0		80	0.0	4.88	100	100	3.00	GR			SH		2.76	0.27
3692.7	6.0	0.2	51.5	1.75	76	66	3.00	100	100	0.0		78	0.0	4.73	107	634	3.39	RT	"		NE		2.76	0.27
3692.3	4.9	0.3	43.1	1.72	75	82	3.00	100	100	0.0		75	0.0	3.50	101	423	3.33	RT	"		NE		2.76	0.27
3692.0	4.3	0.6	39.7	1.72	85	93	3.00	100	100	0.0		75	0.0	2.61	100	268	3.35	RT	"		NE		2.76	0.27
3691.7	3.5	0.7	38.3	1.82	101	0	2.60	30	96	27.0		66	36.8	1.03	30	105	2.60	DS	*				2.80	0.29
3691.4	3.9	0.5	45.4	1.99	97	100	3.00	100	100	0.0		83	5.2	4.14	100	100	3.00	GR			SH		2.80	0.29
3691.1	4.1	0.4	52.1	1.89	86	96	3.00	100	100	0.0		90	0.0	4.93	100	314	3.62	RT	*		NE		2.80	0.29
3690.8	5.2	0.5	53.9	1.91	100	76	3.00	52	99	6.4		86	14.2	3.85	52	416	3.51	RT	*		NE		2.82	0.30
3690.5	5.4	0.7	53.6	2.10	113	74	3.00	50	99	6.9		78	24.5	2.31	50	188	3.49	RT	*		NE		2.84	0.31
3690.2	5.6	1.1	47.2	2.18	121	71	3.00	46	98	7.7		76	30.6	2.12	46	129	3.35	RT	*		NE		2.86	0.32
3689.9	5.1	0.9	51.5	1.95	121	78	3.00	55	99	5.8		81	29.1	2.56	55	155	3.48	RT	*		NE		2.89	0.34
3689.6	4.9	0.7	55.0	1.91	119	81	3.00	59	99	4.9		95	26.8	4.98	59	188	3.57	RT	*		NE		2.90	0.34
3689.3	7.9	0.5	53.7	1.93	120	50	3.00	30	96	13.4		87	36.4	4.49	30	105	3.32	RT	*		NE		2.93	0.36
3689.0	10.0	0.8	52.2	1.81	103	40	2.96	24	94	16.0		70	26.5	2.71	24	123	3.25	RT	*		NE		2.98	0.40
3688.8	COAL LOGIC - PHIN = 53.17 GT PHINCR AND ROB = 1.75 LT ROBCR AND DT = 101 GT DTCR																							
3688.7	COAL LOGIC - PHIN = 54.93 GT PHINCR AND ROB = 1.64 LT ROBCR AND DT = 101 GT DTCR																							
3688.5	COAL LOGIC - PHIN = 56.54 GT PHINCR AND ROB = 1.58 LT ROBCR AND DT = 101 GT DTCR																							
3688.4	2.6	1.1	55.8	1.73	90	0	2.80	35	91	27.0		59	29.3	1.48	35	84	2.80	DS	*			.83	3.10	0.48
3688.1	2.0	1.5	49.9	2.07	84	0	2.98	44	82	24.6		65	24.6	0.78	44	79	3.13	DS	"		NE		3.17	0.52
3687.8	1.8	3.9	41.8	2.15	87	0	2.93	42	45	27.0		64	27.2	0.73	42	45	2.93	DS	*				3.25	0.57
3687.5	1.9	4.9	43.9	2.19	82	0	2.96	49	49	23.2		65	23.2	0.54	49	46	3.09	DS	"		NE		3.33	0.61
3687.2	2.2	3.5	48.5	2.24	78	0	2.98	50	62	20.7		61	20.7	0.69	50	62	3.36	DS	"		NE		3.39	0.64
3686.9	2.5	2.6	42.5	2.19	74	0	2.98	54	88	17.8		56	17.8	0.64	54	83	3.03	DS	"		NE		3.45	0.67
3686.6	2.7	1.7	33.2	2.36	71	0	2.91	60	99	15.5		55	15.5	0.39	60	119	2.91	DS	"				3.50	0.69
3686.3	3.7	2.5	28.8	2.51	73	30	2.94	76	99	7.8		53	7.8	0.29	76	124	2.92	DS	"				3.53	0.70
3685.9	2.6	4.0	29.3	2.65	75	56	3.00	100	100	2.2		48	2.2	0.39	132	118	3.29	GR	"		NE		3.54	0.70
3685.6	2.4	5.5	28.0	2.85	73	49	3.00	100	100	0.0		45	2.6	0.24	220	143	3.44	GR			SS		3.54	0.70

DEPTH	RT	RXO	PHIN	ROB	DT	VSH	ROMA	SW	SXO	POR	SPI	GR	PHIL	DD	SWP	SXP	ROMA	SH	P	CO	LI	ROH	POR-M	HC-M
						***	****	**		***													*****	****
3685.3	2.2	8.1	26.6	2.78	69	42	2.99	100	100	1.0		41	2.0	0.24	213	117	3.16	GR			NE		3.54	0.70
3685.0	2.0	6.3	25.4	2.61	71	42	2.96	100	100	3.4		41	3.4	0.24	149	101	2.94	GR	"				3.55	0.70
3684.7	2.2	5.3	27.3	2.71	80	51	3.00	100	100	3.1		46	6.7	0.19	133	99	3.29	GR			NE		3.57	0.70
3684.4	2.3	9.7	27.3	2.72	77	47	3.00	100	100	3.1		44	6.3	0.24	136	78	3.31	GR			NE		3.57	0.70
3684.1	2.6	7.8	24.6	2.44	74	17	2.83	65	65	12.9		49	12.9	1.13	65	56	2.79	DS	"				3.59	0.71
3683.8	3.0	3.7	25.6	2.40	75	9	2.81	53	72	15.9		61	15.9	1.13	53	72	2.79	DS	"				3.65	0.73
3683.5	5.6	3.2	27.1	2.46	77	70	2.90	100	100	0.0		69	0.0	0.78	105	139	2.65	RT	"				3.65	0.73
3683.2	7.8	4.0	29.3	2.51	81	50	2.96	44	83	7.7		77	7.7	0.73	44	80	2.91	RT	"				3.67	0.74
3682.9	3.0	5.1	30.3	2.56	85	100	3.00	100	100	0.0		88	0.0	0.73	100	100	3.00	PN			SH		3.68	0.75
3682.6	3.5	5.6	27.0	2.50	83	64	2.91	72	72	5.7		81	5.7	0.49	72	69	2.77	DS	"				3.69	0.75
3682.3	3.7	5.6	25.0	2.41	79	24	2.82	49	58	14.0		61	14.0	0.44	49	58	2.76	DS	"				3.72	0.77
3682.0	3.5	5.0	27.0	2.34	79	4	2.79	40	52	20.0		56	20.0	0.54	40	52	2.78	DS	"				3.78	0.80
3681.7	3.4	5.2	29.1	2.38	82	23	2.85	45	53	16.4		54	16.4	0.49	45	53	2.80	DS	"				3.83	0.83
3681.4	3.5	6.6	28.4	2.43	82	39	2.88	53	53	11.7		53	11.7	0.44	53	53	2.81	DS	"				3.88	0.85
3681.1	3.7	7.6	28.8	2.50	79	49	2.93	68	68	7.2		62	7.2	0.29	68	61	2.86	DS	"				3.90	0.86
3680.8	3.8	7.0	30.1	2.44	74	16	2.92	53	58	13.2		66	13.2	0.24	53	58	2.90	DS	"				3.93	0.87
3680.5	3.8	7.2	29.5	2.45	67	0	2.94	63	71	12.6		67	12.6	0.29	63	71	2.94	DS	"				3.97	0.89
3680.2	3.7	6.4	27.5	2.48	67	5	2.91	68	81	11.2		65	11.2	0.29	68	79	2.90	DS	"				4.01	0.90
3679.9	3.4	5.8	27.6	2.58	75	59	2.98	100	100	1.5		66	1.5	0.29	122	101	2.95	DS	"				4.02	0.90
3679.5	3.1	9.2	27.6	2.64	78	75	3.00	100	100	0.0		59	0.0	0.29	135	78	3.12	GR	"		NE		4.02	0.90
3679.2	3.0	9.7	28.7	2.70	75	78	3.00	100	100	0.0		60	0.0	0.29	134	74	3.31	GR			NE		4.02	0.90
3678.9	3.2	5.9	31.0	2.72	72	77	3.00	100	100	0.0		60	0.0	0.29	130	96	3.38	GR			NE		4.02	0.90
3678.6	3.4	4.5	31.8	2.77	79	81	3.00	100	100	0.0		62	0.0	0.29	122	107	3.43	GR			NE		4.02	0.90
3678.3	3.7	4.2	31.1	2.78	88	81	3.00	100	100	0.0		61	4.2	0.29	118	110	3.43	GR			NE		4.02	0.90
3678.0	4.0	4.3	29.7	2.76	88	90	3.00	100	100	0.0		67	1.3	0.29	105	102	3.39	GR			NE		4.02	0.90
3677.7	4.0	4.6	36.8	2.80	78	100	3.00	100	100	0.0		75	0.0	0.29	100	100	3.00	GR			SH		4.02	0.90
3677.4	5.7	3.7	41.5	2.41	74	69	3.00	100	100	0.0		83	0.0	0.69	105	130	3.32	RT	"		NE		4.02	0.90
3677.1	5.3	3.2	38.6	2.37	71	0	2.99	42	91	15.7		91	15.7	1.57	42	84	3.15	DS	"		NE		4.07	0.93
3676.8	5.0	3.1	33.3	2.47	77	35	2.97	52	98	9.9		94	9.9	1.62	52	91	3.07	DS	"		NE		4.10	0.95
3676.5	5.0	2.3	33.8	2.47	91	79	3.00	56	99	5.5		97	7.0	1.67	56	99	3.19	RT	*		NE		4.12	0.96
3676.2	4.4	3.1	37.6	2.39	115	90	3.00	73	99	2.7		97	21.2	1.67	73	98	3.28	RT	*		NE		4.13	0.96
3675.9	16.1	10.1	42.0	2.23	121	27	2.98	17	32	19.5		94	43.7	1.57	17	32	3.09	RT	*		NE		4.18	1.00
3675.6	27.6	24.0	45.1	1.93	126	19	2.80	13	20	21.8		80	49.2	0.29	12	20	2.73	RT	*				4.25	1.06
3675.3	COAL LOGIC - PHIN = 51.17 GT PHINCR AND ROB = 1.61 LT ROBCR AND DT = 129 GT DTCR																							
3675.1	COAL LOGIC - PHIN = 54.00 GT PHINCR AND ROB = 1.52 LT ROBCR AND DT = 130 GT DTCR																							
3675.0	COAL LOGIC - PHIN = 54.87 GT PHINCR AND ROB = 1.48 LT ROBCR AND DT = 130 GT DTCR																							
3674.8	COAL LOGIC - PHIN = 57.04 GT PHINCR AND ROB = 1.45 LT ROBCR AND DT = 131 GT DTCR																							
3674.7	COAL LOGIC - PHIN = 59.50 GT PHINCR AND ROB = 1.44 LT ROBCR AND DT = 131 GT DTCR																							
3674.5	COAL LOGIC - PHIN = 60.57 GT PHINCR AND ROB = 1.45 LT ROBCR AND DT = 131 GT DTCR																							
3674.4	COAL LOGIC - PHIN = 60.57 GT PHINCR AND ROB = 1.45 LT ROBCR AND DT = 131 GT DTCR																							
3674.2	COAL LOGIC - PHIN = 60.07 GT PHINCR AND ROB = 1.45 LT ROBCR AND DT = 131 GT DTCR																							
3674.1	COAL LOGIC - PHIN = 57.02 GT PHINCR AND ROB = 1.45 LT ROBCR AND DT = 131 GT DTCR																							
3673.9	COAL LOGIC - PHIN = 56.14 GT PHINCR AND ROB = 1.44 LT ROBCR AND DT = 129 GT DTCR																							
3673.8	COAL LOGIC - PHIN = 55.35 GT PHINCR AND ROB = 1.45 LT ROBCR AND DT = 129 GT DTCR																							
3673.6	COAL LOGIC - PHIN = 55.43 GT PHINCR AND ROB = 1.44 LT ROBCR AND DT = 128 GT DTCR																							
3673.4	COAL LOGIC - PHIN = 55.79 GT PHINCR AND ROB = 1.44 LT ROBCR AND DT = 128 GT DTCR																							
3673.3	COAL LOGIC - PHIN = 57.56 GT PHINCR AND ROB = 1.44 LT ROBCR AND DT = 129 GT DTCR																							
3673.1	COAL LOGIC - PHIN = 58.09 GT PHINCR AND ROB = 1.44 LT ROBCR AND DT = 130 GT DTCR																							
3673.0	COAL LOGIC - PHIN = 58.03 GT PHINCR AND ROB = 1.43 LT ROBCR AND DT = 130 GT DTCR																							
3672.8	COAL LOGIC - PHIN = 58.96 GT PHINCR AND ROB = 1.42 LT ROBCR AND DT = 130 GT DTCR																							
3672.7	COAL LOGIC - PHIN = 59.79 GT PHINCR AND ROB = 1.43 LT ROBCR AND DT = 130 GT DTCR																							
3672.5	COAL LOGIC - PHIN = 61.86 GT PHINCR AND ROB = 1.42 LT ROBCR AND DT = 130 GT DTCR																							
3672.4	COAL LOGIC - PHIN = 53.62 GT PHINCR AND ROB = 1.42 LT ROBCR AND DT = 128 GT DTCR																							
3672.2	8.5	14.9	40.8	1.44	119	0	2.61	19	23	27.0		19	49.9	0.49	19	23	2.61	DS	*				5.15	1.83
3671.9	9.3	6.1	26.6	1.85	101	0	2.58	18	36	27.0		16	37.4	0.09	18	36	2.54	DS	*		R1	.58	5.24	1.89
3671.6	12.1	7.8	21.3	2.19	88	0	2.65	17	33	25.8		16	26.0	0.04	17	33	2.65	DS				.70	5.32	1.96

3671.0	6.0	9.5	21.0	2.38	81	0	2.75	32	40	19.5		18	22.7	0.04	32	40	2.75	GR			5.45	2.05
3670.7	6.8	8.0	17.4	2.41	78	0	2.72	34	49	17.0		19	20.2	0.04	34	49	2.72	GR		.97	5.50	2.08
3670.4	6.8	6.9	15.4	2.41	75	2	2.70	36	56	15.9		20	17.8	0.04	36	56	2.69	GR		.84	5.55	2.11

DEPTH	RT	RXO	PHIN	ROB	DT	VSH	ROMA	SW	SXO	POR	SPI	GR	PHIL	DD	SWP	SXP	ROMA	SH	P	CO	LI	ROR	POR-M	NC-M
						***	****	**		***													*****	****
3670.1	6.2	7.2	15.1	2.40	77	13	2.70	40	55	14.2		27	15.9	0.04	40	55	2.66	DS				.72	5.59	2.14
3669.8	5.7	7.7	17.3	2.45	78	31	2.76	49	58	10.3		37	11.3	0.04	49	58	2.66	DS				.69	5.63	2.16
3669.5	5.6	7.3	16.3	2.38	80	18	2.71	40	52	14.4		39	16.6	0.04	40	52	2.65	DN				.65	5.67	2.18
3669.2	5.5	6.3	16.5	2.34	85	11	2.69	36	51	17.2		38	22.1	0.04	36	51	2.65	DN				.52	5.72	2.21
3668.9	5.4	5.6	18.3	2.33	87	16	2.71	35	52	17.1		35	21.9	0.04	35	52	2.65	DN				.51	5.77	2.25
3668.6	5.2	5.7	20.1	2.32	86	21	2.72	35	49	17.4		35	20.3	0.09	35	49	2.65	DN				.63	5.82	2.28
3668.3	4.7	6.1	19.9	2.32	85	19	2.72	36	47	17.7		36	20.0	0.09	36	47	2.65	DS				.67	5.88	2.32
3668.0	4.2	5.9	21.1	2.52	81	43	2.84	65	71	7.5		42	9.8	0.24	65	71	2.73	GR					5.91	2.33
3667.7	3.7	7.1	21.8	2.55	74	44	2.87	99	99	4.5		43	4.5	0.04	93	82	2.77	DS	"				5.92	2.33
3667.4	3.3	7.8	21.9	2.58	71	46	2.89	100	100	2.2		44	2.2	-0.01	131	96	2.80	DS	"				5.93	2.33
3667.0	3.0	7.0	21.2	2.56	70	36	2.86	100	100	4.4		41	4.4	-0.10	114	93	2.79	DS	"				5.95	2.33
3666.7	2.8	7.5	22.3	2.53	72	35	2.86	100	100	5.9		43	5.9	0.04	100	79	2.79	DS	"				5.96	2.33
3666.4	2.8	6.7	20.1	2.50	72	26	2.81	87	87	8.9		45	8.9	0.09	82	73	2.75	DS	"				5.99	2.34
3666.1	2.9	7.9	15.7	2.57	73	49	2.82	100	100	2.3		47	2.5	0.19	132	91	2.67	DS					6.00	2.34
3665.8	3.4	14.4	11.0	2.61	72	43	2.79	100	100	0.0		47	3.4	0.19	207	100	2.66	DN					6.00	2.34
3665.5	4.1	26.9	9.7	2.64	69	40	2.80	100	100	0.0		42	2.2	0.19	205	90	2.70	PN					6.00	2.34
3665.2	5.4	55.8	8.3	2.68	64	36	2.83	100	100	0.0		40	0.0	0.19	198	61	2.76	PN					6.00	2.34
3664.9	8.1	87.3	7.9	2.69	58	32	2.82	100	100	0.0		36	0.0	0.14	181	55	2.76	GR					6.00	2.34
3664.6	10.2	86.9	8.5	2.66	57	21	2.78	100	100	0.0		35	0.0	0.14	247	84	2.73	DS	"				6.00	2.34
3664.3	11.1	64.6	10.4	2.65	58	18	2.79	100	100	0.5		34	0.5	0.14	274	113	2.75	DS	"				6.00	2.34
3664.0	10.9	36.0	11.2	2.60	61	15	2.77	99	99	3.6		38	3.6	0.24	92	68	2.73	DS	"				6.01	2.34
3663.7	9.5	15.1	14.5	2.47	65	0	2.73	46	56	10.9		41	10.9	0.19	46	56	2.73	DS	"				6.04	2.35
3663.4	7.7	9.3	18.1	2.43	70	0	2.74	37	52	15.0		45	15.0	-0.06	37	52	2.74	DS	"				6.08	2.38
3663.1	6.6	10.7	22.3	2.50	73	32	2.84	55	58	7.9		48	7.9	-0.01	55	58	2.77	DS	"				6.11	2.39
3662.8	5.9	15.1	23.6	2.51	79	51	2.87	58	58	6.2		54	6.2	0.04	58	45	2.74	DS	"			.93	6.13	2.40
3662.5	5.7	11.3	19.5	2.46	79	37	2.79	48	48	9.8		54	10.5	0.04	48	46	2.68	DS				.74	6.16	2.42
3662.2	6.6	9.3	16.8	2.44	76	20	2.74	42	51	12.3		51	12.9	0.04	42	51	2.68	DS				.82	6.20	2.44
3661.9	20.1	11.7	15.1	2.47	78	23	2.75	28	52	9.9		41	13.6	-0.01	28	52	2.67	RT				.53	6.24	2.46
3661.6	24.4	13.9	14.2	2.43	79	21	2.72	23	45	11.2		32	14.9	0.04	23	45	2.65	RT				.55	6.27	2.49
3661.3	19.4	13.4	13.8	2.41	77	15	2.70	24	43	12.9		29	15.1	0.04	24	43	2.65	DN				.67	6.31	2.51
3661.0	20.2	12.0	14.5	2.40	77	12	2.70	22	43	14.0		30	15.9	0.04	22	43	2.66	DS				.71	6.35	2.55
3660.6	21.2	10.2	17.2	2.42	79	23	2.74	23	47	12.5		37	14.9	0.04	23	47	2.67	RT				.67	6.39	2.58
3660.3	22.2	9.3	16.0	2.37	80	15	2.70	19	45	15.1		35	17.6	0.04	19	45	2.65	DN				.66	6.43	2.61
3660.0	25.9	9.4	16.4	2.34	82	12	2.69	17	42	16.7		29	20.0	-0.01	17	42	2.65	DN				.64	6.48	2.65
3659.7	29.4	10.9	17.0	2.34	84	14	2.70	16	39	16.5		30	20.5	-0.01	16	39	2.65	DN				.62	6.53	2.70
3659.4	33.0	12.1	16.6	2.38	83	17	2.71	16	40	14.8		28	19.1	-0.01	16	40	2.66	RT				.62	6.58	2.73
3659.1	34.0	11.5	16.4	2.33	82	9	2.68	14	37	17.6		28	20.5	-0.01	14	37	2.65	DN				.69	6.63	2.78
3658.8	33.7	10.3	17.1	2.33	82	9	2.69	14	38	18.0		27	20.5	-0.01	14	38	2.66	DS				.72	6.69	2.82
3658.5	35.8	9.7	17.3	2.30	83	5	2.67	13	37	19.6		23	22.5	-0.01	12	37	2.65	DS				.71	6.74	2.87
3658.2	40.5	9.4	16.6	2.30	84	4	2.67	12	38	19.7		25	23.4	-0.01	12	38	2.65	DN				.67	6.80	2.93
3657.9	45.2	9.8	15.9	2.32	83	5	2.67	12	39	18.6		25	22.5	-0.01	12	39	2.65	DN				.65	6.86	2.98
3657.6	45.4	9.8	16.0	2.31	82	5	2.67	12	39	18.7		25	21.6	-0.01	11	39	2.65	DN				.70	6.92	3.03
3657.3	43.3	8.5	17.0	2.33	82	11	2.69	13	43	17.5		26	20.2	-0.01	12	43	2.65	DN				.68	6.97	3.07
3657.0	40.1	8.8	17.2	2.31	83	8	2.68	13	40	18.7		25	21.4	-0.01	12	40	2.65	DS				.70	7.03	3.12
3656.7	33.8	9.6	16.5	2.28	83	1	2.66	13	37	20.5		25	23.8	-0.01	12	37	2.65	DN				.68	7.09	3.18
3656.4	29.0	9.7	15.8	2.30	83	2	2.66	14	38	19.6		27	23.1	-0.01	14	38	2.65	DN				.68	7.15	3.23
3656.1	26.4	9.3	16.1	2.29	82	0	2.66	15	38	20.3		27	23.1	-0.01	14	38	2.65	DS				.68	7.21	3.28
3655.8	25.8	8.7	16.3	2.30	82	1	2.66	15	40	20.0		27	22.8	-0.01	15	40	2.65	DS				.69	7.27	3.33
3655.5	25.8	9.3	16.2	2.30	82	2	2.66	15	39	19.5		27	22.3	-0.01	15	39	2.65	DS				.70	7.33	3.38
3655.2	22.5	10.4	15.3	2.31	81	0	2.66	17	38	19.4		26	22.2	-0.01	16	38	2.65	DS				.68	7.39	3.43

DEPTH	RT	RXO	PHIN	ROB	DT	VSH	ROMA	SW	SXO	POR	SPI	GR	PHIL	DD	SWP	SXP	ROMA	SH	P	CO	LI	ROH	POR-M	HC-M
						***	****	**		***													*****	****
3654.9	19.0	10.1	16.3	2.33	81	8	2.68	19	40	17.6		26	20.1	-0.01	19	40	2.65	DS				.71	7.44	3.47
3654.6	17.2	9.4	15.9	2.33	81	7	2.68	20	41	17.6		26	20.3	-0.01	20	41	2.65	DS				.70	7.50	3.52
3654.2	17.5	9.5	16.4	2.34	81	8	2.69	20	41	17.4		27	19.8	-0.01	20	41	2.66	DS				.71	7.55	3.56
3653.9	19.2	9.3	17.1	2.33	80	5	2.69	18	40	18.5		26	20.5	-0.01	18	40	2.67	DS				.77	7.61	3.60
3653.6	19.5	9.4	17.0	2.32	78	0	2.67	17	39	19.8		23	20.4	-0.01	17	39	2.67	DS				.74	7.67	3.65
3653.3	20.5	9.3	17.2	2.26	79	0	2.65	14	37	20.9		24	20.9	-0.01	14	37	2.65	DS	"			.67	7.73	3.71
3653.0	25.0	45.1	40.1	1.81	92	0	2.65	12	13	27.0		21	30.4	-0.01	11	13	2.65	DS	*			.74	7.81	3.77
3652.9	COAL LOGIC - PHIN = 54.51 GT PHINCR AND ROB = 1.62 LT ROBCR AND DT = 104 GT DTCR																							
3652.7	COAL LOGIC - PHIN = 60.05 GT PHINCR AND ROB = 1.49 LT ROBCR AND DT = 115 GT DTCR																							
3652.6	COAL LOGIC - PHIN = 63.45 GT PHINCR AND ROB = 1.46 LT ROBCR AND DT = 125 GT DTCR																							
3652.4	COAL LOGIC - PHIN = 62.75 GT PHINCR AND ROB = 1.46 LT ROBCR AND DT = 128 GT DTCR																							
3652.3	COAL LOGIC - PHIN = 60.81 GT PHINCR AND ROB = 1.45 LT ROBCR AND DT = 129 GT DTCR																							
3652.1	COAL LOGIC - PHIN = 60.58 GT PHINCR AND ROB = 1.46 LT ROBCR AND DT = 129 GT DTCR																							
3652.0	COAL LOGIC - PHIN = 61.24 GT PHINCR AND ROB = 1.47 LT ROBCR AND DT = 130 GT DTCR																							
3651.8	COAL LOGIC - PHIN = 63.04 GT PHINCR AND ROB = 1.47 LT ROBCR AND DT = 130 GT DTCR																							
3651.7	COAL LOGIC - PHIN = 60.70 GT PHINCR AND ROB = 1.48 LT ROBCR AND DT = 131 GT DTCR																							
3651.5	COAL LOGIC - PHIN = 60.74 GT PHINCR AND ROB = 1.46 LT ROBCR AND DT = 131 GT DTCR																							
3651.4	COAL LOGIC - PHIN = 59.78 GT PHINCR AND ROB = 1.46 LT ROBCR AND DT = 133 GT DTCR																							
3651.2	COAL LOGIC - PHIN = 60.00 GT PHINCR AND ROB = 1.45 LT ROBCR AND DT = 133 GT DTCR																							
3651.0	COAL LOGIC - PHIN = 59.76 GT PHINCR AND ROB = 1.43 LT ROBCR AND DT = 132 GT DTCR																							
3650.9	COAL LOGIC - PHIN = 59.72 GT PHINCR AND ROB = 1.43 LT ROBCR AND DT = 132 GT DTCR																							
3650.7	COAL LOGIC - PHIN = 58.48 GT PHINCR AND ROB = 1.44 LT ROBCR AND DT = 133 GT DTCR																							
3650.6	COAL LOGIC - PHIN = 56.68 GT PHINCR AND ROB = 1.47 LT ROBCR AND DT = 129 GT DTCR																							
3650.4	COAL LOGIC - PHIN = 50.61 GT PHINCR AND ROB = 1.65 LT ROBCR AND DT = 122 GT DTCR																							
3650.3	45.9	77.6	39.2	1.90	114	0	2.69	9	11	27.0		17	46.1	-0.01	8	10	2.69	DS	*				8.55	4.40
3650.0	41.3	18.0	21.1	2.18	99	0	2.65	10	21	25.9		21	35.4	-0.01	9	21	2.65	DN				.68	8.63	4.47
3649.7	32.1	15.3	18.5	2.21	93	0	2.64	12	25	24.1		25	31.0	-0.01	11	25	2.64	DN				.60	8.70	4.54
3649.4	26.5	14.3	18.9	2.27	94	7	2.68	14	29	20.7		27	29.5	-0.01	14	29	2.65	DN				.61	8.77	4.59
3649.1	23.5	11.8	19.3	2.31	90	15	2.71	16	33	18.5		33	24.4	-0.01	16	33	2.65	DN				.56	8.82	4.64
3648.8	15.3	10.2	19.3	2.32	88	18	2.71	20	37	17.5		36	22.4	-0.01	20	37	2.65	DN				.58	8.88	4.68
3648.5	11.0	8.1	19.9	2.31	87	18	2.71	23	40	18.2		40	22.0	-0.01	23	40	2.65	DN				.62	8.93	4.72
3648.2	9.4	5.8	20.0	2.28	89	13	2.70	23	45	20.0		49	24.8	-0.01	23	45	2.65	DN				.57	8.99	4.77
3647.8	10.0	5.2	19.6	2.32	90	19	2.71	25	51	17.6		57	23.2	-0.01	25	51	2.65	DN				.47	9.05	4.81
3647.5	11.0	5.6	18.6	2.32	88	15	2.70	24	50	18.1		61	23.6	-0.01	24	50	2.65	DN				.49	9.10	4.85
3647.2	11.4	6.6	17.2	2.33	88	13	2.69	24	49	17.3		65	23.7	-0.01	24	49	2.65	DN				.44	9.16	4.89
3646.9	12.0	6.7	13.3	2.38	84	8	2.68	28	58	14.8		57	22.5	-0.01	28	58	2.65	DN				.24	9.20	4.93
3646.6	12.7	5.9	13.4	2.40	81	11	2.69	29	63	13.9		46	19.0	-0.01	29	63	2.65	DN				.36	9.25	4.96
3646.3	11.3	5.3	14.9	2.32	80	1	2.65	24	54	19.0		48	21.6	-0.01	24	54	2.65	DS				.63	9.30	5.00
3646.0	11.1	4.9	17.5	2.29	85	5	2.67	22	51	20.2		49	24.0	-0.01	22	51	2.65	DN				.61	9.36	5.04
3645.7	13.8	4.9	17.0	2.29	90	3	2.66	20	51	20.4		52	27.8	-0.01	20	51	2.65	DN				.42	9.42	5.09
3645.4	13.8	5.4	17.6	2.28	89	3	2.66	19	48	20.9		47	27.4	-0.01	19	48	2.65	DN				.50	9.49	5.15
3645.1	11.4	5.8	17.1	2.30	88	7	2.67	23	49	19.2		46	25.5	-0.01	23	49	2.65	DN				.48	9.55	5.19
3644.8	9.2	5.9	17.9	2.36	84	21	2.72	29	54	15.2		44	19.0	0.04	29	54	2.65	DN				.53	9.59	5.23
3644.5	8.0	5.8	18.8	2.38	82	25	2.74	33	55	14.2		53	15.9	0.04	33	55	2.66	DS				.67	9.64	5.25
3644.2	7.2	5.8	17.7	2.40	82	27	2.74	37	58	13.0		48	15.5	-0.01	37	58	2.65	DN				.58	9.68	5.28
3643.9	6.0	7.2	20.6	2.49	82	54	2.83	56	63	6.3		53	7.8	0.14	56	63	2.65	DN					9.70	5.29
3643.6	4.6	7.7	19.7	2.45	77	25	2.78	50	54	12.0		75	12.0	0.09	50	54	2.71	DS	"			.91	9.73	5.31
3643.3	3.7	5.1	18.3	2.44	81	37	2.77	59	69	9.9		80	11.5	0.09	59	69	2.65	DN				.55	9.76	5.32
3643.0	3.2	4.3	17.2	2.42	83	28	2.74	59	71	11.9		62	16.1	0.09	59	71	2.65	DN				.32	9.80	5.34
3642.7	3.2	4.9	16.3	2.38	82	19	2.71	54	63	14.4		56	17.9	0.04	54	63	2.65	DN				.49	9.84	5.35
3642.4	3.5	4.4	16.9	2.37	82	18	2.71	49	64	15.1		52	17.8	0.04	49	64	2.65	DN				.55	9.89	5.38
3642.1	5.7	4.3	16.2	2.40	83	22	2.72	42	70	13.1		43	17.5	0.04	42	70	2.65	DN				.33	9.93	5.40
3641.8	4.1	5.1	16.5	2.43	82	28	2.74	54	68	11.4		38	15.0	-0.06	54	68	2.65	DN				.40	9.96	5.42
3641.4	4.2	5.4	16.8	2.40	81	23	2.73	49	62	13.2		40	16.0	-0.01	49	62	2.65	DN				.53	10.00	5.44
3641.1	4.1	4.7	15.6	2.39	84	17	2.71	48	66	14.1		41	19.6	0.04	48	66	2.65	DN				.30	10.05	5.46
3640.8	3.4	5.1	16.7	2.47	84	37	2.77	71	79	8.3		44	14.0	0.09	71	77	2.65	DN					10.08	5.47

3640.2	2.1	4.2	24.7	2.59	77	67	2.94	100	100	0.2		71	0.2	0.14	177	125	2.82	DS	*			10.09	5.47	
3639.9	1.8	3.5	24.3	2.60	80	80	2.95	100	100	0.0		76	0.0	0.09	171	121	2.80	DS				10.09	5.47	

MODEL	DEPLO	DEPUP	RW	RMF	FL TEMP	BIT SIZE	SCDA	
	3639.95	3584.94	0.030	0.07	215.00	8.50	51.00	
SHALE	RSH	DTSH	PHINSH	ROBSH	GR SD	GR SH	PHIMAX	
	5.00	85.00	28.00	2.50	19.00	72.00	27.00	
X-PLOTS	ROB1N	ROB2N	DT1N	DT2N	DT1D	DT2D		
	2.59	2.25	50.00	50.00	90.00	48.00		
GAS	RQH	DTF	SXOMIN	SSP	SP2	SRH FAC	EXC FAC	
	0.30	189.00	1.00	0.00	1.00	1.00	1.30	
EXPO	CFF	EXPW	EXPXO	EXPWXO	EXPVSH	EXPA	EXPO	
	0.80	2.00	2.00	0.20	1.40	0.10	1.00	
LOG1	LSP	LGR	LMLL	LPL	LSNP	LCNL		
	2	3	6	0	0	13		
LOG2	LFD	LSL	LDP	LDRO	LRT			
	14	15	9	21	22			
NOVSH-1	KSP	KRT	KXO	KGR				
	1.	0.	1.	0.				
NOVSH-2	KCDN	KCSN	KCDS					
	0.	1.	0.					
MISC-1	EXPAND	SMOOTH	SW EQ	DIST	EXPHI	ROHkw	UNITS	
	0.00	5.00	0.00	0.00	2.00	0.00	2.00	
MISC-2	RTLIM	PHIMIN	ROMF	**PPK	SP1	KSO	RP MIN	
	10000.00	-4.00	1.00	33.72	1.00	0.00	0.00	
MISC-3		AFT. PLT	SIZE PLT	ROBCR	PHINCR	DTCR	KORM	
		2.00	0.00	1.80	50.00	100.00	0.00	
MISC-4	SXOI	ROMASH				DPMIN	DROMAX	
	0.00	3.00				0.00	0.10	
MISC-5			ROMAX 1	SORLIM	DTMIN	COEDT	DDMAX	
			3.00	1.00	50.00	139.00	2.00	
CORIRAND	DTO	DTS	ROMA1	ROMA2	KSPI	SED		
	43.50	51.20	2.60	3.00	1.00	0.00		
MANUAL	SNP1	SNP2	NH	RO1	RO2	DT1	DT2	
	10.00	50.00	0.00	0.00	0.00	0.00	0.00	

RESCALING IS NEW=(OLD+ZERO SHIFT)*SCALE FACTOR

DEPTH	RT	RXO	PHIN	ROB	DT	VSH	ROMA	SW	SXO	POR	SPI	GR	PHIL	DD	SWP	SXP	ROMA	SH	P	CO	LI	ROH	POR-M	HC-M
						***	****	**		***													*****	****
3639.6	1.4	3.8	24.0	2.56	79	87	3.00	100	100	0.0		82	0.0	0.19	201	124	3.00	PN			NE		10.09	5.47
3639.3	1.4	3.2	24.1	2.54	80	87	2.97	100	100	0.0		85	0.0	0.19	203	133	2.80	PN					10.09	5.47
3639.0	1.4	3.8	21.9	2.52	81	78	2.91	100	100	0.7		83	2.7	0.19	193	123	2.65	DN					10.09	5.47
3638.7	1.4	4.2	22.2	2.53	80	81	2.93	100	100	0.0		86	1.4	0.19	211	122	2.68	PN					10.10	5.47
3638.4	1.6	3.8	22.5	2.53	79	82	2.93	100	100	0.0		90	0.4	0.19	199	128	2.69	PN					10.10	5.47
3638.1	1.8	3.0	20.2	2.50	82	65	2.86	100	100	3.3		84	6.9	0.19	136	122	2.65	DN					10.10	5.47
3637.8	1.9	3.4	19.4	2.55	82	73	2.89	100	100	0.0		79	4.8	0.19	195	148	2.67	PN					10.11	5.47
3637.5	2.1	5.0	20.8	2.57	77	77	2.95	100	100	0.0		91	0.1	0.19	181	117	2.82	PN					10.11	5.47
3637.2	2.1	6.1	21.5	2.54	77	78	2.92	100	100	0.0		95	0.0	0.19	177	104	2.68	DS					10.11	5.47
3636.9	2.2	5.3	21.4	2.50	81	71	2.89	100	100	2.6		87	4.4	0.19	127	93	2.65	DN					10.11	5.47
3636.6	2.5	3.9	19.5	2.58	78	73	2.93	100	100	0.0		81	2.0	0.19	171	137	2.79	PN					10.11	5.47
3636.3	7.6	4.6	15.5	2.66	68	60	2.95	100	100	0.0		75	0.0	0.19	114	147	2.90	PN					10.11	5.47
3636.0	13.3	9.4	13.7	2.72	63	38	2.91	100	100	0.0		64	0.0	0.19	132	157	2.87	RT	"				10.11	5.47
3635.7	7.4	21.0	13.2	2.70	61	53	2.97	100	100	0.0		63	0.0	0.19	129	76	2.94	PN					10.11	5.47
3635.3	6.0	32.9	13.5	2.69	60	54	2.96	100	100	0.0		65	0.0	0.19	141	60	2.92	PN					10.11	5.47
3635.0	5.1	31.0	16.5	2.69	64	63	3.00	100	100	0.0		65	0.0	0.19	134	84	3.04	PN			NE		10.11	5.47
3634.7	4.3	18.8	14.5	2.69	63	57	2.98	100	100	0.0		61	0.0	0.19	158	76	2.96	PN					10.11	5.47
3634.4	3.5	11.0	12.7	2.66	63	52	2.91	100	100	0.0		56	0.0	0.19	193	109	2.83	PN					10.11	5.47
3634.1	2.7	9.1	13.2	2.59	67	53	2.84	100	100	0.0		60	0.0	0.29	215	117	2.70	PN					10.11	5.47
3633.8	2.2	10.4	17.7	2.62	69	67	2.95	100	100	0.0		73	0.0	0.49	196	89	2.88	PN					10.11	5.47
3633.5	2.1	9.7	20.2	2.61	70	75	2.98	100	100	0.0		75	0.0	0.49	185	85	2.94	DS					10.11	5.47
3633.2	2.0	6.7	23.2	2.59	75	84	3.00	100	100	0.0		82	0.0	0.49	172	94	3.09	PN			NE		10.11	5.47
3632.9	1.4	5.9	25.1	2.52	0	0	2.86		100	0.0		84	0.0	0.34		60	3.43	DS	"		NE		10.11	5.47
3632.6	2.1	3.8	28.6	2.52	79	81	3.00	100	100	0.6		89	0.6	0.29	160	122	3.17	DS	"		NE		10.12	5.47
3632.3	2.3	4.6	24.6	2.55	82	89	3.00	100	100	0.0		95	0.7	0.29	155	110	3.01	PN			NE		10.12	5.47
3632.0	3.0	7.0	24.5	2.59	79	89	3.00	100	100	0.0		86	0.0	0.29	136	90	3.20	PN			NE		10.12	5.47
3631.7	3.7	7.4	26.9	2.51	76	60	3.00	99	99	3.4		87	3.4	0.29	97	80	3.28	DS	"		NE		10.12	5.47
3631.4	4.1	7.1	30.2	2.49	77	56	3.00	79	79	5.3		95	5.3	0.29	77	72	3.37	DS	"		NE		10.14	5.48
3631.1	4.5	9.3	28.0	2.51	84	99	3.00	100	100	0.0		96	0.0	0.24	100	100	3.00	PN			SH		10.14	5.48
3630.8	5.1	11.4	27.6	2.49	83	89	2.99	87	87	1.8		93	1.8	0.29	82	59	2.88	DS	"				10.14	5.48
3630.5	5.6	11.2	26.2	2.49	81	75	3.00	69	69	3.5		93	3.5	0.29	69	57	3.16	DS	"		NE	.96	10.15	5.48
3630.2	5.5	9.7	21.6	2.44	81	56	2.89	52	52	8.0		80	8.2	0.29	52	30	2.77	DN				.77	10.17	5.49
3629.9	5.4	9.4	24.4	2.49	80	75	2.94	75	75	3.0		79	3.0	0.29	75	64	2.77	DS	"			.90	10.19	5.49
3629.6	5.5	10.8	24.3	2.54	79	88	2.98	100	100	0.0		89	0.0	0.29	102	82	2.85	PN					10.19	5.49
3629.3	5.6	11.1	25.7	2.54	77	79	2.99	100	100	0.0		90	0.0	0.29	108	76	2.96	DS	"				10.19	5.49
3628.9	6.1	11.2	26.5	2.52	77	70	3.00	92	92	1.8		87	1.8	0.29	85	68	3.26	DS	"		NE		10.19	5.49
3628.6	6.2	10.9	26.1	2.59	77	80	3.00	100	100	0.0		88	0.0	0.29	102	77	3.12	RT	"		NE		10.19	5.49
3628.3	5.9	10.6	25.8	2.61	74	84	3.00	100	100	0.0		83	0.0	0.29	101	85	3.24	RT			NE		10.19	5.49
3628.0	5.4	9.9	23.8	2.52	74	55	3.00	89	89	3.4		83	3.4	0.29	83	72	3.26	DS	"		NE		10.19	5.49
3627.7	5.1	9.3	23.9	2.53	76	70	2.94	100	100	1.2		83	1.2	0.29	103	81	2.83	DS	"				10.20	5.49
3627.4	4.7	8.6	22.8	2.52	76	67	2.92	99	99	2.1		84	2.1	0.29	95	78	2.77	DS	"				10.21	5.49
3627.1	4.4	9.3	23.3	2.54	76	75	2.93	100	100	0.3		82	0.3	0.24	127	87	2.77	DS	"				10.21	5.49
3626.8	4.2	9.8	22.8	2.54	76	78	2.93	100	100	0.0		80	0.0	0.19	126	83	2.75	DS	"				10.21	5.49
3626.5	3.9	11.2	24.0	2.67	74	87	3.00	100	100	0.0		69	0.0	0.19	121	91	3.27	PN			NE		10.21	5.49
3626.2	3.6	16.0	22.3	2.58	72	68	2.94	100	100	0.0		61	0.0	0.19	150	71	2.83	DS	"				10.21	5.49
3625.9	3.4	11.5	22.3	2.54	73	59	2.91	100	100	2.1		69	2.1	0.19	122	74	2.79	DS	"				10.21	5.49
3625.6	3.3	7.0	22.0	2.48	73	35	2.90	82	82	7.9		78	7.9	0.24	79	73	3.29	DS	"		NE		10.23	5.50
3625.3	3.3	6.8	21.2	2.48	74	40	2.89	76	76	7.8		84	7.8	0.24	76	70	2.83	DS	"				10.26	5.50
3625.0	3.4	7.6	22.4	2.52	76	66	2.90	100	100	2.5		84	2.5	0.24	107	81	2.73	DS	"				10.27	5.50
3624.7	3.4	8.8	23.6	2.52	76	65	2.92	100	100	2.4		88	2.4	0.24	110	77	2.80	DS	"				10.27	5.50

DEPTH	RT	RXO	PHIN	ROB	DT	VSH ***	ROMA ****	SW **	SXO	POR ***	SPI	GR	PHIL	DD	SWP	SXP	ROMA	SH	P	CO	LI	ROH	POR-M *****	HC-M ****
3624.4	3.7	7.5	24.0	2.51	77	70	2.93	100	100	2.4		81	2.4	0.19	101	80	2.79	DS	"				10.28	5.50
3624.1	4.5	13.4	21.6	2.65	76	80	3.00	100	100	0.0		79	0.0	0.19	120	69	3.23	PN			NE		10.28	5.50
3623.8	5.4	40.4	14.6	2.68	68	58	2.97	100	100	0.0		66	0.0	0.19	140	51	2.93	PN					10.28	5.50
3623.5	6.2	43.8	11.8	2.63	59	28	2.81	100	100	0.0		58	0.0	0.19	260	98	2.75	DS	"				10.28	5.50
3623.2	7.0	14.8	16.6	2.53	63	4	2.87	68	71	8.2		56	8.2	0.19	68	71	3.37	DS	"		NE		10.31	5.51
3622.9	7.4	10.3	20.1	2.55	72	58	2.90	95	95	1.7		68	1.7	0.19	88	82	2.78	DS	"				10.32	5.51
3622.5	6.9	11.1	19.0	2.51	75	56	2.87	70	70	3.8		75	3.8	0.09	70	65	2.72	DS	"			.91	10.32	5.51
3622.2	7.3	8.2	15.2	2.40	75	14	2.81	35	50	14.9		66	14.9	0.04	35	50	2.78	DS	"			.80	10.37	5.53
3621.9	13.6	6.5	14.6	2.28	81	0	2.81	18	41	22.6		50	22.6	0.04	18	41	2.81	DN	"			.59	10.43	5.59
3621.6	16.6	6.3	14.1	2.27	86	0	2.79	16	41	23.0		41	26.3	0.04	16	41	2.79	DN				.51	10.50	5.64
3621.3	19.6	6.6	14.4	2.25	86	0	2.81	14	38	24.1		34	26.6	0.04	14	38	2.81	DN				.55	10.57	5.71
3621.0	23.2	8.2	13.5	2.25	85	0	2.80	14	35	23.7		30	25.5	0.04	13	35	2.80	DN				.54	10.65	5.77
3620.7	47.1	23.0	11.7	2.45	77	14	2.81	16	34	12.8		29	16.5	0.04	16	34	2.79	DN				.54	10.70	5.81
3620.4	22.8	77.5	8.7	2.59	64	17	2.78	49	49	5.1		28	5.9	0.04	49	37	2.74	GR					10.72	5.83
3620.1	25.9	99.1	9.7	2.64	59	23	2.81	99	99	1.2		38	1.2	0.04	97	57	2.77	RT	"				10.72	5.83
3619.8	21.1	70.5	11.7	2.69	61	27	2.86	95	95	1.6		46	1.6	0.04	87	56	2.82	RT	"				10.73	5.83
3619.5	13.2	66.6	10.5	2.66	61	38	2.84	100	100	0.0		47	0.0	0.04	132	59	2.76	RT					10.73	5.83
3619.2	9.7	39.0	14.7	2.56	65	28	2.85	81	81	3.9		52	3.9	0.14	79	50	2.80	DS	"				10.74	5.83
3618.9	9.0	12.3	17.9	2.61	72	55	2.90	94	94	1.4		65	2.3	0.14	87	81	2.80	RT					10.74	5.83
3618.6	8.1	23.8	13.3	2.67	71	54	2.93	100	100	0.0		61	1.7	0.14	122	71	2.87	PN					10.74	5.83
3618.3	6.9	48.7	10.7	2.65	64	45	2.86	100	100	0.0		52	0.0	0.14	154	58	2.78	PN					10.74	5.83
3618.0	6.6	41.6	13.8	2.54	64	15	2.84	75	75	6.8		54	6.8	0.14	75	42	2.81	DS	"				10.76	5.83
3617.7	6.3	14.7	18.6	2.51	73	48	2.87	69	69	4.9		63	4.9	0.19	69	56	2.76	DS	"			.99	10.77	5.84
3617.4	5.5	8.8	20.2	2.46	79	55	2.87	58	58	6.8		71	7.6	0.19	58	58	2.73	DN				.75	10.79	5.84
3617.1	5.6	9.6	20.7	2.50	78	69	2.88	84	84	2.6		74	3.3	0.19	80	69	2.67	DN				.79	10.80	5.85
3616.8	7.2	16.9	13.7	2.61	77	55	2.87	100	100	0.0		71	6.0	0.19	127	83	2.74	PN					10.80	5.85
3616.5	49.7	40.8	9.5	2.66	67	15	2.81	43	65	3.8		58	8.9	0.09	43	65	2.78	RT					10.82	5.85
3616.1	88.9	70.1	8.2	2.74	59	10	2.84	48	74	2.6		52	4.0	0.09	48	74	2.83	RT					10.82	5.86
3615.8	19.0	79.2	7.6	2.74	58	29	2.87	100	100	0.0		45	0.0	0.09	147	72	2.83	RT					10.82	5.86
3615.5	15.6	47.9	9.0	2.58	59	6	2.80	70	70	5.1		45	5.1	0.09	70	59	2.79	DS	"				10.83	5.86
3615.2	9.7	12.6	12.8	2.49	64	0	2.82	48	65	10.3		48	10.3	0.04	48	65	2.82	DS	"				10.86	5.87
3614.9	7.1	5.7	15.5	2.42	75	16	2.79	38	63	13.9		49	13.9	0.04	38	63	2.75	DS	"			.84	10.90	5.90
3614.6	5.5	5.9	16.8	2.44	80	34	2.80	50	67	10.3		49	13.5	0.04	50	67	2.71	DN				.49	10.94	5.92
3614.3	4.9	6.2	17.0	2.44	80	34	2.81	52	65	10.4		54	13.3	-0.01	52	65	2.72	DN				.53	10.97	5.93
3614.0	4.9	5.4	17.1	2.41	79	27	2.80	45	62	13.0		54	14.7	0.04	45	62	2.74	DN				.63	11.01	5.96
3613.7	5.3	5.1	17.3	2.39	81	24	2.80	41	61	14.1		50	16.5	0.04	41	61	2.74	DN				.57	11.05	5.98
3613.4	5.5	5.5	17.2	2.41	83	28	2.81	43	62	12.6		49	17.1	-0.01	43	62	2.73	DN				.41	11.09	6.00
3613.1	5.7	6.2	17.3	2.39	84	23	2.82	39	54	14.7		49	19.0	-0.01	39	54	2.77	DN				.44	11.14	6.03
3612.8	5.8	6.3	16.2	2.42	83	28	2.80	45	61	11.8		50	16.7	-0.01	45	61	2.73	DN				.38	11.18	6.05
3612.5	8.0	5.2	16.3	2.38	80	18	2.79	32	59	15.4		49	17.1	0.04	32	59	2.75	DN				.63	11.22	6.08
3612.2	8.5	4.6	16.6	2.39	79	20	2.79	32	64	14.7		46	16.1	-0.01	32	64	2.73	DN				.64	11.27	6.11
3611.9	9.6	4.7	16.3	2.37	81	15	2.79	28	60	16.3		47	18.6	-0.01	28	60	2.75	DN				.57	11.31	6.15
3611.6	10.2	5.2	16.6	2.38	81	17	2.80	27	57	16.1		45	18.6	-0.01	27	57	2.76	DN				.56	11.36	6.18
3611.3	12.1	5.8	16.3	2.33	81	3	2.83	20	45	21.4		42	22.0	-0.01	20	45	2.83	DN				.67	11.42	6.23
3611.0	13.5	6.6	15.7	2.33	82	0	2.84	19	41	22.2		41	23.4	0.04	18	41	2.84	DN				.62	11.49	6.28
3610.7	12.9	7.0	15.5	2.34	83	2	2.84	20	42	21.1		42	23.3	-0.01	20	42	2.83	DN				.57	11.56	6.34
3610.4	11.5	6.9	15.7	2.36	83	8	2.82	23	46	18.7		39	21.9	-0.01	23	46	2.80	DN				.52	11.61	6.38
3610.1	10.6	6.3	14.8	2.37	82	8	2.79	25	51	17.7		42	21.5	-0.01	25	51	2.78	DN				.47	11.67	6.42
3609.7	11.6	5.9	15.0	2.37	80	9	2.79	25	53	17.5		40	19.8	-0.01	25	53	2.77	DN				.57	11.72	6.46
3609.4	12.1	6.0	15.0	2.35	81	3	2.80	22	48	19.6		40	21.6	-0.01	22	48	2.79	DN				.59	11.78	6.51

DEPTH	RT	RXO	PHIN	ROB	DT	VSH	ROMA	SW	SXO	POR	SPI	GR	PHIL	DD	SWP	SXP	ROMA	SH	P	CO	LI	ROH	POR-M	HC-M
						***	****	**		***													*****	****
3609.1	12.9	6.0	15.0	2.32	81	0	2.81	19	45	21.7		40	22.6	-0.01	19	45	2.81	DN				.65	11.84	6.56
3608.8	14.6	6.4	15.0	2.35	82	3	2.81	20	47	19.7		37	22.2	-0.01	20	47	2.80	DN				.66	11.91	6.61
3608.5	15.7	7.0	14.6	2.32	82	0	2.82	18	41	21.8		38	23.7	-0.01	17	41	2.82	DN				.59	11.97	6.66
3608.2	17.4	7.3	14.1	2.31	82	0	2.81	17	41	21.6		36	23.3	-0.01	17	41	2.81	DN				.60	12.04	6.71
3607.9	18.9	7.3	14.6	2.31	82	0	2.82	16	39	22.2		34	23.1	-0.01	16	39	2.82	DN				.63	12.10	6.77
3607.6	20.4	7.1	14.2	2.31	83	0	2.81	16	41	21.8		34	23.8	-0.01	15	41	2.81	DN				.58	12.17	6.83
3607.3	22.4	6.9	13.8	2.30	83	0	2.79	15	42	21.6		33	23.9	-0.01	15	42	2.79	DN				.57	12.24	6.88
3607.0	24.7	6.9	13.5	2.30	82	0	2.79	14	41	21.8		33	23.5	-0.01	14	41	2.79	DN				.57	12.30	6.94
3606.7	27.2	6.9	13.5	2.32	82	0	2.79	14	44	20.7		32	23.1	-0.01	14	44	2.79	DN				.56	12.37	6.99
3606.4	28.7	6.9	13.4	2.28	82	0	2.78	13	41	22.2		34	23.1	-0.01	13	41	2.78	DN				.55	12.43	7.05
3606.1	29.1	6.8	13.3	2.28	82	0	2.78	13	41	22.0		36	23.2	-0.01	13	41	2.78	DN				.55	12.50	7.11
3605.8	31.8	6.3	13.1	2.31	81	0	2.77	13	45	20.8		34	22.9	-0.01	13	45	2.77	DN				.55	12.56	7.16
3605.5	35.0	6.8	13.0	2.33	81	0	2.77	13	45	20.2		33	22.7	-0.01	12	45	2.77	DN				.56	12.62	7.22
3605.2	37.3	7.6	13.0	2.29	81	0	2.78	12	39	21.8		32	22.6	-0.01	11	39	2.78	DN				.55	12.69	7.27
3604.9	39.0	7.8	13.0	2.30	81	0	2.79	12	40	21.3		31	22.6	-0.01	11	40	2.79	DN				.57	12.76	7.33
3604.6	38.8	7.9	13.3	2.29	81	0	2.79	12	39	21.9		32	22.9	-0.01	11	39	2.79	DN				.57	12.82	7.39
3604.3	37.8	7.7	12.8	2.28	81	0	2.78	12	39	22.1		34	23.0	-0.01	11	39	2.78	DN				.53	12.89	7.45
3604.0	42.3	7.1	11.4	2.29	81	0	2.74	12	44	20.5		32	22.7	-0.01	11	44	2.74	DN				.47	12.95	7.50
3603.7	53.3	6.6	11.1	2.27	81	0	2.73	11	44	21.0		31	22.6	-0.01	10	44	2.73	DN				.44	13.02	7.56
3603.3	65.1	7.1	10.1	2.27	80	0	2.72	10	44	20.5		29	21.8	-0.01	9	44	2.72	DN				.41	13.08	7.61
3603.0	59.5	8.2	11.6	2.31	79	0	2.76	11	41	20.0		28	21.1	-0.01	10	41	2.76	DN				.52	13.14	7.67
3602.7	42.6	8.8	13.5	2.29	81	0	2.81	11	36	22.3		28	22.8	-0.01	10	36	2.81	DN				.58	13.21	7.73
3602.4	36.4	7.7	13.4	2.28	82	0	2.79	12	38	22.5		29	23.3	-0.01	11	38	2.79	DN				.55	13.27	7.79
3602.1	39.0	6.8	12.6	2.29	81	0	2.76	12	43	21.2		30	22.8	-0.01	11	43	2.76	DN				.52	13.34	7.85
3601.8	33.4	6.6	11.6	2.27	81	0	2.74	13	43	21.5		29	22.5	-0.01	12	43	2.74	DN				.46	13.40	7.90
3601.5	21.3	7.6	12.3	2.36	81	0	2.77	18	46	18.8		32	22.9	-0.01	17	46	2.77	DN				.45	13.46	7.95
3601.2	13.5	8.4	15.2	2.36	80	6	2.83	21	40	19.5		43	20.5	-0.01	21	40	2.82	DN				.65	13.52	8.00
3600.9	11.5	7.4	16.8	2.36	82	14	2.84	23	43	18.2		48	19.7	-0.01	23	43	2.82	DN				.63	13.58	8.04
3600.6	11.7	6.6	17.4	2.40	84	26	2.82	28	53	13.9		51	17.8	-0.01	28	53	2.76	DN				.48	13.63	8.07
3600.3	11.2	6.5	18.0	2.39	83	28	2.83	28	53	14.0		52	17.0	-0.01	28	53	2.77	DN				.55	13.67	8.10
3600.0	10.2	6.4	18.8	2.42	83	38	2.84	33	58	11.3		54	14.1	-0.01	33	58	2.75	DN				.56	13.70	8.13
3599.7	10.0	6.2	17.5	2.40	83	28	2.82	31	56	13.4		55	17.2	-0.01	31	56	2.75	DN				.48	13.74	8.16
3599.4	11.1	6.5	17.6	2.40	85	28	2.83	29	55	13.4		51	18.0	-0.06	29	55	2.76	DN				.43	13.79	8.19
3599.1	11.1	6.6	17.3	2.38	83	21	2.83	26	50	15.9		51	18.7	-0.06	26	50	2.79	DN				.55	13.83	8.22
3598.8	11.5	6.6	16.7	2.37	83	16	2.82	24	49	17.0		47	20.0	-0.06	24	49	2.79	DN				.54	13.88	8.26
3598.5	13.5	7.5	15.6	2.33	84	0	2.86	18	39	22.4		43	24.9	-0.06	18	39	2.86	DN				.54	13.95	8.31
3598.2	16.2	8.6	15.3	2.32	86	0	2.87	17	35	22.9		43	26.6	-0.06	16	35	2.87	DN				.47	14.01	8.37
3597.9	16.9	8.6	15.4	2.35	86	6	2.84	18	39	19.7		41	24.5	-0.06	18	39	2.83	DN				.43	14.08	8.42
3597.6	15.5	8.0	16.4	2.39	83	20	2.83	23	47	15.1		45	19.0	-0.06	23	47	2.78	DN				.49	14.13	8.46
3597.2	15.4	7.8	17.4	2.39	82	24	2.84	23	47	14.9		46	17.2	-0.06	23	47	2.79	DN				.59	14.17	8.49
3596.9	16.9	8.3	15.7	2.37	83	12	2.83	20	43	17.5		45	21.0	-0.06	20	43	2.81	DN				.51	14.22	8.53
3596.6	17.6	8.8	15.6	2.38	83	14	2.83	20	43	16.6		42	20.7	-0.06	20	43	2.80	DN				.48	14.27	8.57
3596.3	17.7	9.3	15.1	2.36	83	7	2.84	18	39	19.1		42	22.0	-0.01	18	39	2.83	DN				.53	14.33	8.62
3596.0	17.6	9.0	15.2	2.38	84	11	2.83	20	42	17.3		41	21.8	-0.06	20	42	2.80	DN				.45	14.38	8.66
3595.7	17.9	8.5	15.8	2.37	85	13	2.83	19	43	17.3		43	22.3	-0.06	19	43	2.81	DN				.42	14.44	8.70
3595.4	18.0	8.4	17.1	2.37	85	18	2.85	19	42	17.0		45	20.8	-0.06	19	42	2.82	DN				.50	14.49	8.74
3595.1	19.0	8.3	16.3	2.34	85	7	2.87	16	38	20.8		49	23.5	-0.06	16	38	2.86	DN				.53	14.54	8.79
3594.8	19.0	8.8	16.1	2.32	86	0	2.86	16	35	22.5		46	25.7	-0.01	15	35	3.34	DN		NE		.54	14.61	8.84
3594.5	19.3	9.0	16.3	2.37	85	14	2.85	18	41	17.7		44	22.0	-0.01	18	41	2.82	DN				.46	14.67	8.89
3594.2	20.2	8.8	15.0	2.35	83	4	2.84	17	39	19.9		45	23.2	-0.06	17	39	2.83	DN				.51	14.73	8.94

DEPTH	RT	RXO	PHIN	ROB	DT	VSH	ROMA	SW	SXO	POR	SPI	GR	PHIL	DD	SWP	SXP	ROMA	SH	P	CO	LI	ROH	POR-M	HC-M
						***	****	**		***													*****	****
3593.9	23.6	8.1	13.7	2.29	84	0	2.81	14	37	22.3		41	25.0	-0.01	14	37	2.81	DN				.54	14.79	9.00
3593.6	32.7	6.5	13.0	2.29	83	0	2.77	13	43	21.5		38	24.4	-0.01	12	43	2.77	DN				.53	14.86	9.05
3593.3	44.8	6.5	13.2	2.26	83	0	2.77	11	41	22.7		35	24.4	-0.01	10	41	2.77	DN				.52	14.93	9.11
3593.0	45.0	7.2	13.6	2.24	86	0	2.79	10	37	24.1		31	26.2	-0.01	9	37	2.79	DN				.52	15.00	9.18
3592.7	39.3	7.7	13.6	2.25	87	0	2.80	11	36	23.8		32	27.0	-0.06	10	36	2.80	DN				.52	15.07	9.24
3592.4	27.5	8.0	13.9	2.27	88	0	2.81	13	36	23.5		32	27.6	-0.01	12	36	2.81	DN				.48	15.14	9.30
3592.1	19.2	7.8	15.5	2.37	88	10	2.82	19	44	17.8		33	24.9	-0.01	18	44	2.80	DN				.38	15.20	9.35
3591.8	13.8	8.0	16.4	2.43	84	29	2.82	29	54	11.8		52	17.1	-0.06	29	54	2.75	DN				.38	15.24	9.38
3591.5	9.6	7.8	18.8	2.41	80	36	2.85	33	51	11.9		56	12.8	-0.01	33	51	2.77	DN				.71	15.28	9.41
3591.2	9.8	7.9	17.9	2.42	80	35	2.84	34	53	11.5		52	13.3	-0.06	34	53	2.76	DN				.64	15.31	9.43
3590.8	9.5	7.7	17.9	2.39	81	27	2.84	30	48	14.3		50	15.9	-0.06	30	48	2.79	DN				.64	15.35	9.46
3590.5	11.0	7.2	17.7	2.38	82	23	2.84	26	48	15.5		49	17.4	-0.06	26	48	2.79	DN				.62	15.40	9.49
3590.2	13.9	7.5	16.6	2.32	83	4	2.84	19	40	21.3		46	23.4	-0.06	19	40	2.83	DN		NC		.62	15.46	9.54
3589.9	15.0	7.7	17.5	2.39	86	24	2.84	23	47	14.9		43	20.3	-0.01	23	47	2.79	DN				.40	15.52	9.58
3589.6	15.3	7.6	17.8	2.41	87	30	2.84	25	51	13.1		41	19.3	-0.06	25	51	2.77	DN				.41	15.56	9.61
3589.3	17.7	7.2	16.2	2.34	85	6	2.85	17	41	20.9		39	24.0	-0.01	17	41	2.84	DN				.52	15.61	9.66
3589.0	21.7	7.3	16.5	2.32	86	2	2.83	15	40	21.5		33	25.5	-0.01	15	40	2.83	DN		NC		.52	15.68	9.72
3588.7	25.6	8.0	17.1	2.29	89	0	2.86	13	35	23.7		35	28.1	-0.01	12	35	3.36	DN			NE	.51	15.75	9.77
3588.4	30.4	11.0	16.8	2.27	88	0	2.85	12	30	23.9		35	26.0	-0.01	11	30	3.37	DN			NE	.57	15.82	9.84
3588.1	36.5	18.1	15.6	2.31	87	0	2.85	12	25	22.0		35	26.9	-0.01	11	25	3.38	DN			NE	.54	15.89	9.90
3587.8	29.5	18.4	12.7	2.32	82	0	2.86	13	25	21.8		33	23.6	-0.01	13	25	2.86	DN				.57	15.96	9.96
3587.5	8.6	11.5	15.4	2.36	82	8	2.87	26	34	19.4		29	21.2	-0.01	26	34	2.85	DN				.60	16.02	10.00
3587.2	5.2	6.0	19.6	2.42	84	24	2.87	39	54	15.0		32	18.5	-0.01	39	54	2.83	GR				.70	16.07	10.03
3586.9	3.7	3.8	21.2	2.44	87	28	2.86	50	70	13.6		34	19.5	-0.01	50	70	2.81	GR				.75	16.11	10.06
3586.6	2.3	3.5	21.5	2.49	85	35	2.86	76	93	10.4		37	16.7	-0.01	76	85	2.78	GR					16.15	10.07
3586.3	1.3	2.6	23.5	2.54	86	37	2.89	100	100	9.2		39	16.9	-0.01	109	105	2.84	GR					16.18	10.07
3586.0	1.0	1.7	24.2	2.61	84	39	2.98	100	100	8.6		40	15.0	-0.01	133	136	2.96	GR					16.20	10.07
3585.7	1.0	1.6	25.1	2.56	80	42	2.94	100	100	8.9		41	11.5	-0.01	128	134	2.91	GR					16.23	10.07
3585.4	1.0	4.0	27.6	2.52	79	57	2.98	100	100	6.9		49	6.9	0.04	132	83	2.95	GR					16.25	10.07
3585.1	1.4	5.2	33.1	2.56	80	95	3.00	100	100	0.0		69	0.0	0.19	192	100	3.35	GR			NE		16.26	10.07

	DEPLO	DEPUP	RW	RMF	FL TEMP	BIT SIZE	SCDA
MODEL	3584.94	3519.95	0.035	0.08	215.00	8.50	51.00

	RSH	DTSH	PHINSH	ROBSH	GR SD	GR SH	PHIMAX
SHALE	4.00	92.00	33.00	2.55	19.00	72.00	27.00

	ROB1N	ROB2N	DT1N	DT2N	DT1D	DT2D
X-PLOTS	2.59	2.25	50.00	50.00	90.00	48.00

	ROH	DTF	SXOMIN	SSP	SP2	SRH FAC	EXC FAC
GAS	0.30	197.10	1.00	0.00	1.00	1.00	1.30

	CFF	EXPW	EXPXO	EXPWXO	EXPVSH	EXPA	EXPO
EXPO	0.80	2.00	2.00	0.20	1.40	0.10	1.00

	LSP	LGR	LMLL	LPL	LSNP	LCNL
LOG1	2	3	6	0	0	13

	LFD	LSL	LDP	LDRO	LRT
LOG2	14	15	9	21	22

	KSP	KRT	KXO	KGR
NOVSH-1	1.	0.	1.	0.

	KCDN	KCSN	KCDS
NOVSH-2	0.	1.	0.

	EXPAND	SMOOTH	SW EQ	LIST	EXPHI	ROHKW	UNITS
MISC-1	0.00	5.00	0.00	0.00	2.00	0.00	2.00

	RTLIM	PHIMIN	ROMF	***PPK	SP1	KSO	RP MIN
MISC-2	10000.00	-4.00	1.00	32.14	1.00	0.00	0.00

	AFT. PLT	SIZE PLT	ROBCR	PHINCR	DTCR	KORM
MISC-3	2.00	0.00	1.80	50.00	100.00	0.00

	SXOI	ROMASH			DPMIN	DROMAX
MISC-4	0.00	3.00			0.00	0.10

			ROMAX 1	SORLIM	DTMIN	COEDT	DDMAX
MISC-5			3.00	1.00	50.00	139.00	2.00

	DTD	DTS	ROMA1	ROMA2	KSPI	SED
CORIRAND	43.50	51.20	2.60	3.00	1.00	0.00

	SNP1	SNP2	NH	RO1	RO2	DT1	DT2
MANUAL	10.00	50.00	0.00	0.00	0.00	0.00	0.00

RESCALING IS NEW=(OLD+ZERO SHIFT)*SCALE FACTOR

DEPTH	RT	RXO	PHIN	ROB	DT	VSH	ROMA	SW	SXO	POR	SPI	GR	PHIL	DD	SWP	SXP	ROMA	SH	P	CO	LI	ROH	POR-M	HC-M
						***	****	**		***													*****	****
3584.8	2.7	5.3	35.3	2.53	83	68	3.00	99	99	3.7		80	3.7	0.19	98	80	3.33	DS	"		NE		16.26	10.07
3584.4	4.6	10.7	35.4	2.47	87	63	3.00	56	56	7.7		86	7.7	0.19	56	44	3.38	DS	"		NE		16.28	10.08
3584.1	5.0	11.6	35.2	2.43	88	57	3.00	46	46	10.3		85	10.3	0.19	46	38	3.41	DS	"		NE		16.31	10.09
3583.8	4.6	9.3	35.0	2.48	88	69	3.00	58	58	6.7		85	6.7	0.19	58	48	3.34	DS	"		NE		16.33	10.10
3583.5	4.3	6.8	38.1	2.56	87	86	3.00	99	99	0.7		86	0.7	0.19	95	78	3.34	DS	"		NE		16.34	10.10
3583.2	5.3	4.4	35.4	2.54	87	74	3.00	65	85	4.1		87	4.1	0.19	65	81	3.32	RT	"		NE		16.35	10.11
3582.9	7.2	6.3	32.8	2.58	80	55	3.00	57	73	5.3		83	5.3	0.19	57	73	3.38	RT	"		NE		16.36	10.11
3582.6	4.2	9.8	30.5	2.75	74	93	3.00	100	100	0.0		70	0.0	0.19	100	66	3.34	PN			NE		16.36	10.11
3582.3	4.5	9.0	30.0	2.60	77	66	3.00	100	100	0.0		78	0.0	0.29	123	87	3.28	DS	"		NE		16.36	10.11
3582.0	4.6	8.7	31.7	2.51	83	63	3.00	68	68	5.3		88	5.3	0.29	68	58	3.31	DS	"		NE		16.38	10.11
3581.7	4.1	9.3	33.0	2.49	84	60	3.00	65	65	6.7		90	6.7	0.19	65	52	3.34	DS	"		NE		16.39	10.12
3581.4	3.8	8.3	33.0	2.52	85	70	3.00	80	80	4.3		87	4.3	0.19	78	60	3.29	DS	"		NE		16.41	10.12
3581.1	3.6	6.4	32.9	2.52	86	72	3.00	83	83	4.1		86	4.1	0.29	80	68	3.28	DS	"		NE		16.42	10.13
3580.8	3.5	6.2	31.3	2.50	83	60	3.00	74	74	6.1		85	6.1	0.34	74	67	3.31	DS	"		NE		16.44	10.13
3580.5	3.6	6.0	28.8	2.51	82	57	3.00	78	78	5.7		87	5.7	0.29	77	71	3.27	DS	"		NE		16.46	10.14
3580.2	3.9	7.4	27.2	2.68	80	84	3.00	100	100	0.0		83	0.0	0.29	111	81	3.22	PN			NE		16.46	10.14
3579.9	4.1	8.7	28.2	2.59	76	62	3.00	100	100	0.2		71	0.2	0.29	136	93	3.14	DS	"		NE		16.46	10.14
3579.6	4.2	7.0	32.8	2.51	79	50	3.00	72	72	6.2		77	6.2	0.24	72	67	3.40	DS	"		NE		16.47	10.14
3579.3	4.3	6.7	36.6	2.50	86	68	3.00	67	67	5.3		83	5.3	0.19	67	63	3.38	DS	"		NE		16.49	10.14
3579.0	4.2	7.4	36.5	2.51	87	76	3.00	73	73	4.0		88	4.0	0.19	73	62	3.34	DS	"		NE		16.51	10.15
3578.7	3.9	7.5	34.5	2.52	87	77	3.00	81	81	3.5		85	3.5	0.19	79	64	3.30	DS	"		NE		16.52	10.15
3578.4	3.8	7.1	35.2	2.53	87	79	3.00	91	91	2.8		90	2.8	0.24	84	68	3.30	DS	"		NE		16.53	10.15
3578.0	3.7	6.6	31.8	2.53	86	77	3.00	92	92	3.0		90	3.0	0.24	85	71	3.24	DS	"		NE		16.53	10.15
3577.7	3.7	6.0	30.2	2.58	84	82	2.98	100	100	0.0		84	0.0	0.29	116	91	2.92	DS	"				16.54	10.15
3577.4	3.6	6.2	28.3	2.53	81	60	3.00	95	95	4.1		83	4.1	0.24	87	77	3.25	DS	"		NE		16.55	10.15
3577.1	3.7	6.8	26.2	2.53	79	55	2.93	91	91	4.7		82	4.7	0.24	84	73	2.84	DS	"				16.56	10.15
3576.8	3.9	6.1	24.9	2.52	81	57	2.90	78	78	5.2		77	5.2	0.24	77	73	2.77	DS	"				16.57	10.15
3576.5	4.2	6.4	25.7	2.53	82	65	2.91	87	87	3.6		78	3.6	0.24	82	75	2.75	DS	"				16.59	10.16
3576.2	4.4	7.3	21.1	2.52	81	54	2.85	77	77	5.0		69	6.4	0.09	77	70	2.68	DN					16.60	10.16
3575.9	4.6	7.3	16.9	2.53	79	44	2.80	94	94	4.5		53	7.9	0.24	86	82	2.67	DN					16.62	10.16
3575.6	4.6	6.6	17.2	2.50	81	38	2.80	70	73	7.3		45	10.8	0.29	70	73	2.69	DN					16.63	10.17
3575.3	4.3	6.8	22.3	2.47	85	49	2.86	60	60	8.5		59	10.2	0.24	60	59	2.73	DN					16.66	10.18
3575.0	4.0	7.5	25.9	2.49	85	62	2.90	67	67	6.4		70	6.4	0.29	67	58	2.75	DS	"				16.69	10.19
3574.7	3.7	7.5	27.9	2.53	83	68	2.93	92	92	3.7		74	3.7	0.29	85	67	2.80	DS	"				16.70	10.19
3574.4	3.4	7.0	25.6	2.52	81	58	2.90	88	88	5.1		75	5.1	0.29	83	68	2.77	DS	"				16.71	10.19
3574.1	3.0	5.6	24.0	2.53	82	61	2.87	99	99	4.4		77	4.4	0.29	93	78	2.69	DS	"				16.73	10.19
3573.8	2.4	3.6	24.0	2.63	81	75	2.96	100	100	0.0		65	0.0	0.34	151	126	2.88	PN					16.73	10.19
3573.5	2.2	2.8	27.3	2.54	78	54	2.91	100	100	4.2		50	4.2	0.29	118	102	2.81	DS	"				16.74	10.19
3573.2	2.2	4.6	27.4	2.50	80	51	2.92	99	99	6.6		54	6.6	0.54	96	80	2.84	DS	"				16.75	10.19
3572.9	2.3	6.7	31.7	2.46	83	46	2.92	77	77	9.8		70	9.8	1.13	76	57	3.35	DS	"		NE		16.78	10.20
3572.6	2.7	7.6	35.5	2.51	82	100	3.00	100	100	0.0		79	0.0	0.83	100	100	3.00	PN			SH		16.79	10.20
3572.3	3.6	7.5	34.2	2.49	84	61	3.00	70	70	6.5		85	6.5	0.93	70	58	3.36	DS	"		NE		16.81	10.20
3572.0	4.2	7.0	32.7	2.61	85	92	3.00	100	100	0.0		88	0.0	0.78	101	78	3.25	DS			NE		16.82	10.20
3571.6	4.5	7.2	32.8	2.59	82	81	3.00	100	100	0.0		86	0.0	0.78	107	84	3.27	DS	"		NE		16.82	10.20
3571.3	4.4	7.2	30.0	2.54	80	59	3.00	91	91	3.6		88	3.6	0.78	84	75	3.30	DS	"		NE		16.83	10.20
3571.0	4.1	6.9	29.0	2.56	80	66	3.00	100	100	1.7		88	1.7	0.83	102	84	3.25	DS	"		NE		16.83	10.20
3570.7	4.2	6.7	28.9	2.56	80	68	3.00	100	100	1.5		83	1.5	0.93	101	85	3.02	DS	"		NE		16.84	10.20
3570.4	5.1	12.3	27.9	2.70	82	78	3.00	100	100	0.0		80	0.0	0.98	102	65	3.25	RT			NE		16.84	10.20
3570.1	36.7	30.6	22.0	2.76	72	16	2.99	34	50	6.5		67	11.3	0.78	34	50	3.45	RT			NE		16.85	10.21
3569.8	7.7	47.6	16.6	2.78	61	51	3.00	100	100	0.0		52	0.0	0.64	117	47	3.02	RT			NE		16.85	10.21

DEPTH	RT	RXO	PHIN	ROB	DT	VSH	ROMA	SW	SXO	POR	SPI	GR	PHIL	DD	SWP	SXP	ROMA	SH	P	CO	LI	ROH	POR-M	HC-M
						***	****	**		***													*****	****
3569.5	6.9	33.1	12.7	2.67	60	31	2.82	100	100	0.0		50	0.0	0.64	200	91	2.76	DS	"				16.85	10.21
3569.2	5.7	9.0	16.1	2.52	68	16	2.84	70	76	8.4		51	8.4	0.69	70	76	2.81	DS	"				16.86	10.21
3568.9	4.5	4.5	17.8	2.47	78	33	2.79	60	81	9.7		59	10.2	0.34	60	79	2.69	DS					16.89	10.23
3568.6	3.8	5.0	19.0	2.56	83	55	2.83	100	100	2.4		54	7.4	0.24	108	105	2.65	DN					16.91	10.23
3568.3	3.6	6.3	21.8	2.50	83	47	2.85	71	71	7.5		44	9.6	0.19	71	67	2.73	GR					16.93	10.24
3568.0	3.8	5.9	20.1	2.49	81	44	2.83	72	72	7.5		42	9.4	0.34	72	71	2.71	GR					16.96	10.24
3567.7	3.9	5.9	20.1	2.45	80	37	2.83	59	63	10.5		51	10.7	0.34	59	63	2.73	DS					16.98	10.25
3567.4	3.8	5.2	19.1	2.43	80	30	2.81	55	63	12.4		54	12.6	0.34	55	63	2.74	DS					17.02	10.27
3567.1	3.7	4.8	18.2	2.43	80	28	2.79	57	68	12.2		56	13.5	0.19	57	68	2.72	DN					17.06	10.29
3566.8	3.8	4.9	18.1	2.41	81	24	2.80	53	63	13.6		49	15.2	0.09	53	63	2.73	DN					17.10	10.31
3566.5	3.9	5.3	20.9	2.48	85	39	2.84	63	70	9.3		39	13.3	0.09	63	70	2.75	GR					17.13	10.32
3566.2	3.8	4.2	23.5	2.50	81	38	2.88	60	74	10.3		39	11.3	0.09	60	74	2.81	GR					17.17	10.33
3565.9	3.4	3.6	22.1	2.43	80	31	2.84	57	74	12.8		46	12.8	0.09	57	74	2.77	DS	"				17.20	10.35
3565.6	3.0	2.9	22.1	2.36	86	27	2.82	49	68	16.8		48	17.7	0.09	49	68	2.75	DN				.66	17.25	10.37
3565.2	4.1	2.6	22.6	2.47	87	49	2.82	62	99	8.3		49	11.8	0.14	62	98	2.66	DN					17.29	10.39
3564.9	6.2	3.9	23.8	2.59	80	57	2.90	73	99	3.5		49	4.4	0.04	73	105	2.78	GR					17.30	10.39
3564.6	3.5	5.2	21.0	2.46	80	40	2.84	64	67	9.9		46	9.9	0.09	64	67	2.73	DS					17.32	10.40
3564.3	3.8	4.1	19.9	2.42	85	32	2.81	55	70	12.4		45	15.7	0.09	55	70	2.72	DN					17.35	10.41
3564.0	4.5	3.8	19.5	2.39	85	24	2.80	44	66	15.3		46	18.1	0.09	44	66	2.74	DN				.70	17.40	10.44
3563.7	4.7	3.7	19.7	2.37	84	22	2.80	41	64	16.3		45	18.3	0.09	41	64	2.75	DN				.70	17.45	10.47
3563.4	5.4	3.8	19.4	2.41	85	27	2.79	43	71	13.6		41	16.8	0.09	43	71	2.72	DN					17.50	10.49
3563.1	5.3	4.3	19.2	2.41	84	28	2.80	45	67	13.2		41	16.1	0.09	45	67	2.72	DN					17.53	10.51
3562.8	5.1	5.0	19.6	2.38	84	23	2.83	39	56	16.3		42	18.0	0.09	39	56	2.78	DN				.84	17.58	10.54
3562.5	5.2	6.1	19.5	2.35	85	17	2.87	35	45	19.2		38	20.1	0.09	35	45	2.84	DN				.85	17.64	10.58
3562.2	5.3	5.8	20.3	2.30	87	10	2.86	31	42	22.3		38	24.1	0.09	31	42	3.33	DN		NE		.76	17.70	10.62
3561.9	5.6	4.4	20.0	2.31	91	12	2.86	30	49	21.7		38	26.2	0.09	30	49	2.84	DN				.80	17.77	10.67
3561.6	5.5	4.2	23.8	2.54	91	37	2.89	54	83	9.4		38	18.4	0.09	54	80	2.84	GR					17.81	10.69
3561.3	5.4	4.3	24.2	2.58	83	42	2.91	62	95	7.4		41	11.5	0.19	62	87	2.85	GR					17.83	10.70
3561.0	6.8	5.7	25.8	2.71	78	47	2.99	84	99	3.3		43	5.9	0.19	80	100	3.10	GR		NE			17.85	10.70
3560.7	4.5	11.1	25.8	2.59	72	40	2.92	99	99	4.0		40	4.0	0.34	97	73	3.32	GR	"	NE			17.86	10.70
3560.4	4.0	11.8	27.2	2.49	77	37	2.91	69	69	8.3		51	8.3	0.83	69	51	3.35	DS	"	NE			17.89	10.71
3560.1	3.8	5.6	26.5	2.51	78	48	2.93	80	80	6.2		70	6.2	1.77	78	78	3.27	DS	"	NE			17.90	10.72
3559.8	3.7	5.6	26.4	2.50	77	40	2.92	73	75	7.7		75	7.7	1.77	73	75	3.30	DS	"	NE			17.93	10.72
3559.5	4.4	6.1	26.2	2.52	77	45	3.00	73	76	6.3		72	6.3	1.82	73	76	3.28	DS	"	NE			17.95	10.73
3559.1	4.6	6.4	23.6	2.53	76	45	2.90	80	83	5.4		74	5.4	1.43	78	80	2.82	DS	"				17.96	10.73
3558.8	4.4	7.5	22.4	2.53	79	55	2.87	82	82	4.5		70	4.5	0.83	79	71	2.72	DS	"				17.98	10.73
3558.5	4.5	7.7	21.6	2.48	81	47	2.86	62	62	7.9		68	8.0	0.88	62	59	2.73	DS					18.00	10.74
3558.2	4.0	6.1	21.3	2.49	78	41	2.85	68	70	8.0		61	8.0	0.78	68	70	2.76	DS	"				18.03	10.75
3557.9	4.0	6.6	21.3	2.55	81	60	2.85	99	99	2.8		61	4.3	0.69	96	83	2.66	DN					18.04	10.75
3557.6	3.9	5.7	21.3	2.50	83	51	2.84	73	73	6.4		66	8.6	0.39	73	73	2.69	DN					18.06	10.76
3557.3	3.9	6.9	23.0	2.46	85	50	2.87	60	60	8.9		59	10.6	0.39	60	57	2.74	DN					18.08	10.76
3557.0	4.2	5.8	20.2	2.42	87	33	2.83	51	58	12.5		53	16.6	0.19	51	58	2.75	DN					18.12	10.78
3556.7	5.6	3.7	21.6	2.47	84	46	2.83	53	86	8.6		49	10.5	0.19	53	82	2.69	DN					18.15	10.80
3556.4	5.7	4.6	22.5	2.52	81	53	2.86	63	91	5.7		47	6.8	0.24	63	85	2.71	GR					18.17	10.80
3556.1	5.0	5.1	20.1	2.48	83	43	2.82	59	74	8.1		50	11.2	0.09	59	74	2.70	DN					18.19	10.81
3555.8	5.7	4.6	18.6	2.47	87	38	2.80	55	82	8.7		48	15.2	0.09	55	79	2.69	DN					18.22	10.82
3555.5	6.1	4.1	17.4	2.43	88	26	2.77	46	77	11.9		42	19.9	0.04	46	76	2.70	DN					18.25	10.84
3555.2	6.7	4.0	18.4	2.37	86	18	2.79	35	64	16.5		40	20.7	0.04	35	64	2.74	DN				.82	18.30	10.87
3554.9	7.8	4.1	18.5	2.31	89	6	2.82	26	52	22.1		36	26.3	0.04	26	52	2.81	DN				.75	18.36	10.92
3554.6	12.9	6.0	19.3	2.41	84	23	2.84	26	54	14.9		31	17.3	0.09	26	54	2.79	GR					18.42	10.96

DEPTH	RT	RXO	PHIN	ROB	DT	VSH ***	ROMA ****	SW **	SXO	POR ***	SPI	GR	PHIL	DD	SWP	SXP	ROMA	SH	P	CO	LI	ROH	PUR-M *****	HC-M ****
3554.3	15.3	8.3	20.7	2.39	81	18	2.87	22	42	17.3		28	17.3	0.09	22	42	3.33	GR	"		NE		18.47	11.00
3554.0	11.3	5.7	19.0	2.29	87	3	2.83	21	43	23.2	1	27	26.0	0.09	21	43	3.34	DN		NC	NE	.74	18.53	11.05
3553.7	10.1	4.6	18.4	2.24	91	0	2.84	20	43	26.1		28	29.8	0.09	20	43	3.32	DN			NE	.64	18.61	11.11
3553.4	9.2	4.5	18.5	2.24	92	0	2.84	20	43	26.3		28	30.3	0.09	20	43	3.32	DN			NE	.64	18.69	11.18
3553.1	7.9	4.4	19.0	2.29	91	4	2.86	24	47	24.0		31	28.7	0.04	24	47	2.85	DN				.74	18.77	11.24
3552.7	6.7	4.6	21.4	2.39	90	31	2.84	36	58	14.9		35	19.4	0.04	36	58	2.77	DN					18.82	11.27
3552.4	8.1	5.3	21.7	2.45	83	35	2.86	38	62	11.8		38	13.3	0.09	38	62	2.78	GR					18.86	11.29
3552.1	11.7	7.7	22.8	2.71	78	35	2.97	56	93	5.0		49	9.7	0.09	56	85	3.30	RT			NE		18.88	11.30
3551.8	5.5	14.3	22.2	2.72	77	60	3.00	100	100	0.5		51	1.6	0.09	111	70	2.99	GR					18.88	11.30
3551.5	5.2	18.7	20.9	2.51	72	26	2.89	67	67	8.1		48	8.1	0.04	67	47	3.31	DS	"		NE		18.89	11.31
3551.2	4.8	9.0	19.8	2.42	75	11	2.89	48	50	14.5		45	14.5	-0.01	48	50	3.35	DS	"		NE		18.93	11.32
3550.9	5.7	4.1	18.8	2.36	82	17	2.80	36	60	17.5		42	17.8	-0.01	36	60	2.76	DN				.75	18.98	11.35
3550.6	5.8	3.9	19.2	2.33	84	13	2.81	33	57	19.7		39	20.8	0.04	33	57	2.78	DN				.78	19.04	11.40
3550.3	5.4	3.7	19.6	2.32	89	11	2.82	32	56	21.1		38	25.2	0.04	32	56	2.80	DN				.78	19.11	11.44
3550.0	5.3	3.7	21.6	2.40	90	34	2.82	42	68	13.4		38	18.8	0.04	42	68	2.73	DN					19.16	11.47
3549.7	8.8	5.6	26.5	2.59	87	37	2.94	45	72	8.7		38	15.7	0.04	45	72	3.33	GR			NE		19.19	11.49
3549.4	6.2	9.9	27.0	2.54	81	34	2.89	53	54	9.2		37	12.7	0.04	53	54	3.39	GR		NC	NE		19.21	11.50
3549.1	6.1	6.9	23.1	2.50	81	38	2.91	47	57	10.5		39	10.6	0.09	47	57	2.85	GR					19.25	11.52
3548.8	6.8	7.0	24.4	2.69	82	48	2.93	99	99	1.7		44	8.6	0.14	98	106	2.88	GR		NC			19.26	11.52
3548.5	7.5	28.7	21.0	2.82	77	52	3.00	100	100	0.0		46	3.8	0.19	118	60	3.16	GR			NE		19.26	11.52
3548.2	6.2	62.9	21.9	2.85	61	56	3.00	100	100	0.0		48	0.0	0.49	121	38	3.28	GR			NE		19.26	11.52
3547.9	5.1	40.2	20.8	2.62	72	48	2.96	100	100	1.2		44	1.2	0.49	122	46	3.31	GR	"		NE		19.26	11.52
3547.6	4.3	9.2	32.4	2.44	84	46	2.91	51	51	10.9		71	10.9	1.13	51	45	3.41	DS	"		NE		19.29	11.53
3547.3	3.5	4.6	33.8	2.58	84	100	3.00	100	100	0.0		77	0.0	0.49	100	100	3.00	PN			SH		19.29	11.53
3547.0	3.5	4.6	35.0	2.52	86	75	3.00	91	91	3.5		82	3.5	0.44	85	82	3.30	DS	"		NE		19.29	11.53
3546.7	4.3	4.4	33.4	2.49	70	92	2.99	100	100	0.0		88	0.0	0.34	100	99	2.71	RT	"				19.30	11.53
3546.3	5.4	3.7	35.2	2.44	62	74	3.00	100	100	0.0		91	0.0	0.83	103	125	3.28	RT	"		NE		19.32	11.54
3546.0	4.3	2.6	30.9	2.38	72	92	2.97	100	100	0.0		82	0.0	0.83	100	129	2.26	RT	"		+D		19.32	11.54
3545.7	9.9	2.5	18.4	2.36	80	41	2.76	38	97	9.9		63	9.9	0.83	38	98	2.58	RT	"		+D		19.33	11.55
3545.4	2.6	7.2	18.9	2.38	82	61	2.82	100	100	1.8		51	4.7	0.59	133	87	2.47	GR			+D		19.35	11.56
3545.1	2.6	9.7	25.9	2.49	83	66	2.88	99	99	4.0		54	4.0	0.69	98	58	2.67	GR	"				19.37	11.56
3544.8	3.0	5.8	23.2	2.50	83	59	2.86	93	93	5.3		59	5.9	0.49	86	73	2.67	DS	"				19.39	11.56
3544.5	3.3	4.6	21.6	2.49	72	21	2.88	76	94	9.9		55	9.9	0.49	75	97	2.85	DS	"				19.41	11.57
3544.2	3.8	4.4	22.8	2.45	67	0	2.86	68	99	12.5		59	12.5	0.88	68	83	3.41	DS	"		NE		19.45	11.58
3543.9	4.9	3.9	24.4	2.44	75	20	2.88	52	84	12.5		59	12.5	1.08	52	80	3.32	DS	"		NE		19.49	11.60
3543.6	5.7	4.4	24.0	2.62	77	56	2.92	91	99	2.7		49	2.7	0.59	84	107	2.84	GR	"				19.50	11.60
3543.3	6.0	10.9	22.2	2.76	66	38	2.93	100	100	0.2		39	0.2	0.59	177	131	2.89	GR	"	NC			19.50	11.60
3543.0	5.6	15.3	19.2	2.66	66	32	2.89	100	100	2.2		36	2.2	0.39	129	89	2.85	GR	"				19.50	11.60
3542.7	5.1	8.3	22.6	2.62	80	36	2.92	71	71	6.8		38	10.9	0.64	71	70	3.05	GR			NE		19.52	11.61
3542.4	4.0	4.5	21.8	2.66	87	35	2.92	98	99	5.7		37	16.4	0.83	91	106	2.88	GR					19.54	11.61
3542.1	3.4	6.1	19.9	2.66	84	32	2.89	100	100	5.0		35	15.1	0.83	110	101	2.85	GR					19.56	11.61
3541.8	3.2	6.9	24.5	2.80	83	50	3.00	100	100	0.0		45	8.8	1.03	185	126	3.18	GR			NE		19.56	11.61
3541.5	3.2	3.4	27.6	2.69	88	85	3.00	100	100	0.0		71	1.7	0.69	122	118	3.22	PN			NE		19.56	11.61
3541.2	3.3	1.8	29.0	2.47	89	89	2.95	100	100	0.4		83	1.5	0.59	117	100	2.28	PN			+D		19.56	11.61
3540.9	3.3	1.9	31.0	2.52	88	82	2.95	95	99	3.0		86	3.0	0.59	88	127	2.75	DS	"				19.58	11.62
3540.6	3.4	2.1	35.3	2.64	86	100	3.00	100	100	0.0		83	0.0	0.49	100	100	3.00	PN			SH		19.58	11.62
3540.3	3.5	2.8	37.9	2.46	83	48	2.98	63	96	9.4		87	9.4	0.93	63	89	3.43	DS	"		NE		19.60	11.62
3539.9	3.5	2.1	37.9	2.41	83	100	3.00	100	100	0.0		96	0.0	0.93	100	100	3.00	PN			SH		19.60	11.62
3539.6	3.5	1.9	36.4	2.41	83	100	3.00	100	100	0.0		98	0.0	0.93	100	100	3.00	PN			SH		19.60	11.62
3539.3	3.5	2.7	34.1	2.43	80	31	2.89	56	93	12.8		97	12.8	0.78	56	86	3.42	DS	"	NC	NE		19.62	11.63

DEPTH	RT	RXO	PHIN	ROB	DT	VSH	ROMA	SW	SXO	POR	SPI	GR	PHIL	DD	SWP	SXP	ROMA	SH	P	CO	LI	KOH	POR-M	HC-M
						***	****	**		***													*****	****
3539.0	3.6	3.3	33.9	2.49	81	50	3.00	70	98	7.5		97	7.5	0.69	70	91	3.36	DS	"		NE		19.65	11.64
3538.7	3.7	3.1	34.6	2.54	81	65	3.00	98	99	3.2		91	3.2	0.64	91	111	3.31	DS	"		NE		19.66	11.64
3538.4	3.8	3.2	30.0	2.51	80	53	3.00	76	99	6.1		90	6.1	0.64	75	99	3.27	DS	"		NE		19.68	11.64
3538.1	3.7	4.5	29.6	2.53	79	57	3.00	96	98	4.2		89	4.2	0.69	88	92	3.28	DS	"		NE		19.69	11.64
3537.8	3.7	5.1	28.1	2.53	80	60	3.00	96	96	3.9		91	3.9	0.64	88	86	3.01	DS	"		NE		19.70	11.64
3537.5	3.8	5.3	28.3	2.59	79	71	2.97	100	100	0.0		89	0.0	0.69	127	107	2.90	DS	"				19.71	11.64
3537.2	3.8	5.5	28.7	2.64	78	79	3.00	100	100	0.0		80	0.0	0.69	117	97	3.06	DS	"		NE		19.71	11.64
3536.9	4.0	6.0	30.8	2.60	74	59	3.00	100	100	0.0		82	0.0	0.69	144	118	3.32	DS	"		NE		19.71	11.64
3536.6	4.0	6.1	27.7	2.57	73	46	2.94	100	100	2.8		77	2.8	0.69	112	103	3.31	DS	"		NE		19.72	11.64
3536.3	3.7	6.7	22.7	2.54	75	43	2.89	98	98	5.1		68	5.1	0.69	91	82	2.81	DS	"				19.73	11.65
3536.0	3.5	6.8	20.0	2.54	78	54	2.83	100	100	3.5		62	4.0	0.83	100	81	2.66	DS					19.74	11.65
3535.7	3.4	6.3	15.7	2.54	78	40	2.78	100	100	4.5		53	8.4	0.83	106	93	2.65	DN					19.76	11.65
3535.4	3.3	6.0	15.3	2.63	80	52	2.84	100	100	0.0		54	6.4	0.69	178	132	2.71	PN					19.76	11.65
3535.1	3.4	6.2	17.3	2.62	83	57	2.87	100	100	0.0		52	6.6	0.69	161	119	2.72	PN					19.76	11.65
3534.8	3.7	6.5	21.2	2.59	82	62	2.87	100	100	1.0		52	4.9	0.69	124	97	2.70	GR					19.76	11.65
3534.5	3.8	6.3	25.7	2.57	79	67	2.92	100	100	1.1		55	1.1	0.64	114	92	2.77	DS	"				19.76	11.65
3534.2	3.8	8.1	32.0	2.63	80	84	3.00	100	100	0.0		64	0.0	0.59	113	77	3.26	DS			NE		19.77	11.65
3533.9	3.5	11.0	30.7	2.64	80	86	3.00	100	100	0.0		71	0.0	0.59	116	65	3.24	DS			NE		19.77	11.65
3533.5	3.3	8.8	26.6	2.58	79	65	2.93	100	100	1.1		73	1.1	0.59	123	79	2.81	DS	"				19.77	11.65
3533.2	3.5	6.5	24.5	2.53	79	55	2.89	96	96	4.7		72	4.7	0.59	88	76	2.78	DS	"				19.78	11.65
3532.9	3.5	6.4	20.6	2.55	74	44	2.85	100	100	4.0		62	4.0	0.59	105	91	2.74	DS	"				19.79	11.65
3532.6	3.5	5.7	18.4	2.55	69	27	2.83	100	100	5.7		59	5.7	0.59	105	105	2.78	DS	"				19.81	11.65
3532.3	3.7	4.9	20.7	2.57	75	53	2.85	100	100	2.4		54	2.4	0.69	113	109	2.71	DS	"				19.82	11.65
3532.0	3.2	9.1	16.0	2.65	81	52	2.87	100	100	0.0		46	6.7	0.73	180	107	2.76	GR					19.82	11.65
3531.7	2.6	8.8	14.8	2.53	79	40	2.77	100	100	4.5		40	8.8	1.23	121	79	2.64	GR					19.83	11.65
3531.4	2.5	6.1	16.2	2.47	80	37	2.75	97	97	7.8		38	10.9	0.69	90	74	2.64	GR					19.85	11.65
3531.1	2.4	9.5	27.2	2.60	85	42	2.92	99	99	7.2		41	12.4	0.78	94	59	3.30	GR			NE		19.87	11.65
3530.8	2.3	9.5	33.9	2.75	89	56	3.00	100	100	0.0		48	11.7	0.83	199	98	3.43	GR			NE		19.88	11.65
3530.5	2.3	4.5	39.4	2.52	83	64	3.00	100	100	4.5		53	4.5	0.69	103	84	3.42	GR	"		NE		19.89	11.65
3530.2	2.4	2.2	42.7	2.41	84	37	2.92	62	94	13.5		62	13.5	0.69	62	86	3.54	DS	"		NE		19.93	11.66
3529.9	2.5	2.4	40.9	2.41	92	62	3.00	64	88	10.1		78	11.6	0.98	64	82	3.40	DS	*		NE		19.96	11.67
3529.6	2.4	3.1	41.4	2.58	93	100	3.00	100	100	0.0		80	1.1	1.03	100	100	3.00	GR			SH		19.97	11.67
3529.3	2.5	4.0	46.3	2.42	91	100	3.00	100	100	0.0		78	0.0	1.67	100	100	3.00	GR			SH		19.97	11.67
3529.0	2.7	2.6	40.9	2.35	88	36	2.89	49	68	16.8		84	16.8	1.38	49	68	3.53	DS	"	NC	NE		19.99	11.69
3528.7	3.0	3.2	39.1	2.50	90	81	3.00	83	96	4.7		84	4.7	1.28	79	88	3.33	DS	"		NE		20.02	11.69
3528.4	3.2	4.3	40.6	2.50	91	83	3.00	83	83	4.2		78	4.2	1.48	80	77	3.37	DS	"		NE		20.03	11.70
3528.1	3.3	4.7	39.3	2.49	91	96	3.00	100	100	0.2		70	0.2	1.18	112	94	3.31	GR	"		NE		20.04	11.70
3527.8	3.2	4.6	39.3	2.47	91	96	3.00	100	100	1.1		69	1.1	0.98	100	87	3.31	GR	*		NE		20.04	11.70
3527.5	3.2	4.4	37.7	2.49	93	94	3.00	99	99	1.4		69	2.9	0.83	98	87	3.27	GR	*		NE		20.04	11.70
3527.1	3.1	5.9	35.8	2.44	92	72	3.00	66	66	7.5		75	9.0	0.73	66	57	3.32	DS	*		NE		20.07	11.71
3526.8	2.9	6.6	36.6	2.49	89	76	3.00	79	79	5.6		84	5.6	0.73	77	59	3.32	DS	"		NE		20.08	11.71
3526.5	2.6	5.2	36.0	2.50	89	78	3.00	95	95	4.6		86	4.6	0.78	88	70	3.29	DS	"		NE		20.10	11.71
3526.2	2.5	4.8	33.9	2.53	89	100	3.00	100	100	0.0		88	0.0	0.78	100	100	3.00	PN			SH		20.11	11.71
3525.9	2.5	4.8	33.0	2.50	89	77	3.00	94	94	4.9		93	4.9	0.78	86	72	3.24	DS	"		NE		20.12	11.71
3525.6	2.7	4.7	32.3	2.47	88	68	3.00	73	73	7.2		90	7.2	0.83	73	67	3.26	DS	"		NE		20.14	11.72
3525.3	2.7	4.3	32.6	2.65	84	98	3.00	100	100	0.0		84	0.0	0.88	122	96	3.29	PN			NE		20.15	11.72
3525.0	2.6	4.5	30.5	2.72	76	91	3.00	100	100	0.0		67	0.0	0.98	131	99	3.31	GR			NE		20.15	11.72
3524.7	2.4	5.1	30.3	2.56	74	48	2.92	100	100	3.0		65	3.0	0.98	137	107	3.33	DS	"	NC	NE		20.15	11.72
3524.4	2.4	4.0	31.2	2.48	83	55	3.00	87	87	7.7		74	7.7	0.93	82	78	3.30	DS	"		NE		20.17	11.72
3524.1	2.2	3.0	31.9	2.45	87	59	3.00	75	84	9.0		88	9.0	0.98	75	80	3.26	DS	"		NE		20.20	11.73

DEPTH	RT	RXO	PHIN	ROB	DT	VSH	ROMA	SW	SXO	POR	SPI	GR	PHIL	DD	SWP	SXP	ROMA	SH	P	CO	LI	KOH	POR-M	HC-M
						***	****	**		***													*****	****
623.8	2.3	4.4	31.6	2.44	85	47	2.91	70	70	10.8		92	10.8	1.13	70	66	3.34	DS	"		NE		20.23	11.73
623.5	2.9	5.7	30.4	2.40	83	33	2.90	55	55	14.3		87	14.3	1.18	85	53	3.41	DS	"		NE		20.27	11.75
623.2	3.4	6.4	30.3	2.69	77	92	3.00	100	100	0.0		186	0.0	1.43	112	82	3.28	PN			NE		20.27	11.75
622.9	3.7	6.8	27.7	2.69	70	85	3.00	100	100	0.0		71	0.0	1.18	113	83	3.23	PN			NE		20.27	11.75
622.6	4.0	5.8	29.9	2.61	75	91	3.00	100	100	0.0		68	0.0	1.13	104	86	3.20	PN			NE		20.27	11.75
622.3	3.9	5.8	29.3	2.56	78	90	2.96	100	100	0.0		67	0.0	1.18	106	88	2.65	PN	"				20.27	11.75
622.0	4.0	5.1	28.1	2.52	79	86	2.94	100	100	0.0		74	0.0	1.48	108	95	2.52	PN	"		+D		20.27	11.75
621.7	3.7	6.9	28.5	2.55	73	87	2.95	100	100	0.0		75	0.0	1.67	111	82	2.60	PN			+D		20.27	11.75
621.4	3.3	6.9	30.0	2.43	72	91	2.96	100	100	0.0		69	0.0	1.77	115	79	2.27	PN	"		+D		20.27	11.75
621.0	3.0	3.8	34.3	2.41	75	100	3.00	100	100	0.0		83	0.0	2.22	100	100	3.00	PN			SH		20.27	11.75
620.7	2.8	2.0	37.4	2.34	83	100	3.00	100	100	0.0		99	0.0	2.31	100	100	3.00	PN			SH		20.27	11.75
620.4	2.5	1.9	36.2	2.43	80	100	3.00	100	100	0.0		100	0.0	2.96	100	100	3.00	PN			SH		20.27	11.75
620.1	2.2	1.4	39.1	2.32	81	100	3.00	100	100	0.0		87	0.0	3.30	100	100	3.00	PN			SH		20.27	11.75
619.8	2.2	1.2	40.1	2.25	88	100	3.00	100	100	0.0		99	0.0	3.50	100	100	3.00	PN			SH		20.27	11.75

RILA - MICROFILMED

Schlumberger
Synergetic Log Systems

Computer Processed Interpretation

CORIBAND

Using the Following Tools:

ISF BHC FDC CNL DIPT

COMPANY STATOIL

WELL 13/9-1

FIELD

COUNTRY NORWAY

REFERENCE Nº 513,2727 PROCESSING Nº 2

DATE LOGGED 27 APRIL 1977 DATE PROCESSED 17 AUGUST 1977

LOCATION

ELEV. KB DF GL

FOLD HERE

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 employes. These interpretations are also subject to Clause 7 of our General Terms and Conditions as set out in our current Price Schedule.

Computation Center ILIC LONDON Programs used : PREQIS CORDO9 Analyst : TERGIMAN

PARAMETERS

Depth Interval From	To	Rw	Rmf	Rd	Cld	Ø Nd	Cbcf	a/b	n
3223.88	3700.94	.025	.07	4.5	82	31 SS	2.6	.75	2.20
3700.94	3639.05	.03	.07	4.0	90	30	2.55	.75	2.15
3639.53	3586.94	.03	.07	4.0	85	28	2.50	.70	2.15
3586.94	3519.05	.035	.08	4.0	92	33	2.55	.30	2.15 SSd

Remarks SHALE PARAMETERS, Rbsh IMPOSED BY STATOIL.
THIS IS A REPROCESSING OF JOB REF: 513,2017.

DEPTH	FORMATION CHARACTERISTICS	HYDROCARBON ANALYSIS	POROSITY AND FLUIDS ANALYSIS BY VOLUME	FORMATION ANALYSIS BY VOLUME
M	S P I	Water Saturation	Residual / Moved: Hydrocarbon / Water	Clay / Matrix / Porosity
	0 — 50	100 % 0	50 % 0	100 % 0
	Average Grain Density 2.5 gm/cc 3.0		DIFFERENTIAL CALIPER -4 0 inches 12 (Caliper − Bit Size)	
		Hydrocarbon Volume 0 ϕS_{hy} .25		
		Hydrocarbon Weight 0 0 S_{hy} ph .25		

