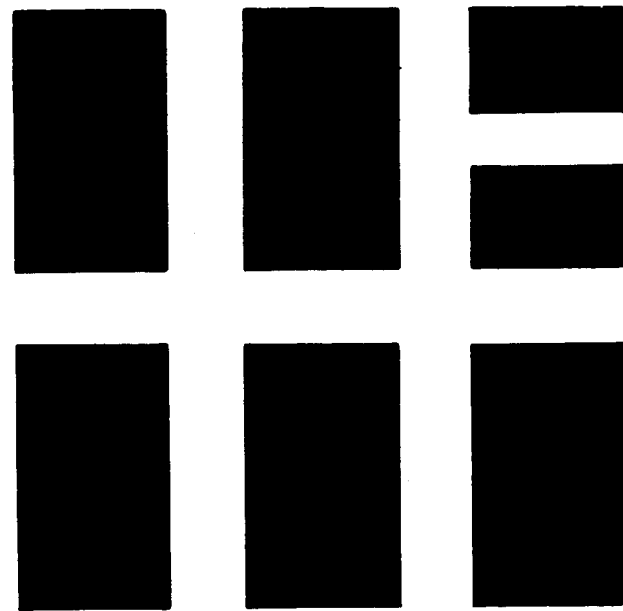

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* SCHLUMBERGER *

COMPUTER PROCESSED INTERPRETATION
COMPANY ELF NORGE A.S.
WELL 25/2-2
FIELD FRIGG
COUNTRY NORWAY OFFSHORE
LOGGED JUNE 28, 1974
DATE AUGUST 12, 1976
REFERENCE 113,12367

NOTE ALL LISTINGS DROPPED WITH V-SH OVER 701

Schlumberger Synergetic Log Systems



Computer Processed Interpretation

CORIBAND

An Analysis Of Complex Lithology

CORIBAND

Analysis of Complex Lithology

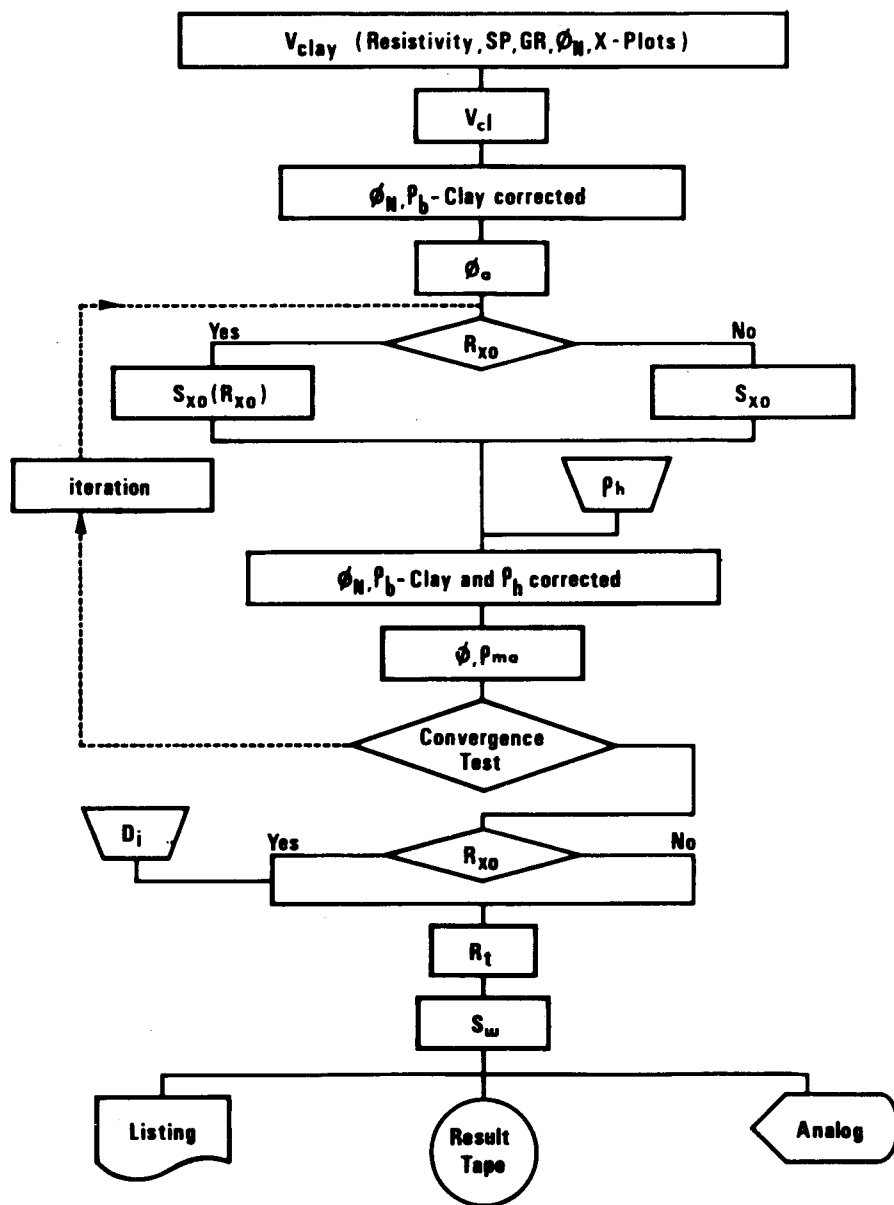
C O R I B A N D is a computer program which provides continuous computations of reservoir parameters through a zone of complex lithology. It corrects logging data for environmental effects and utilises all available information to provide the most probable solution for reservoir analysis.

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

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

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

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



CORIBAND FLOW CHART

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

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

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

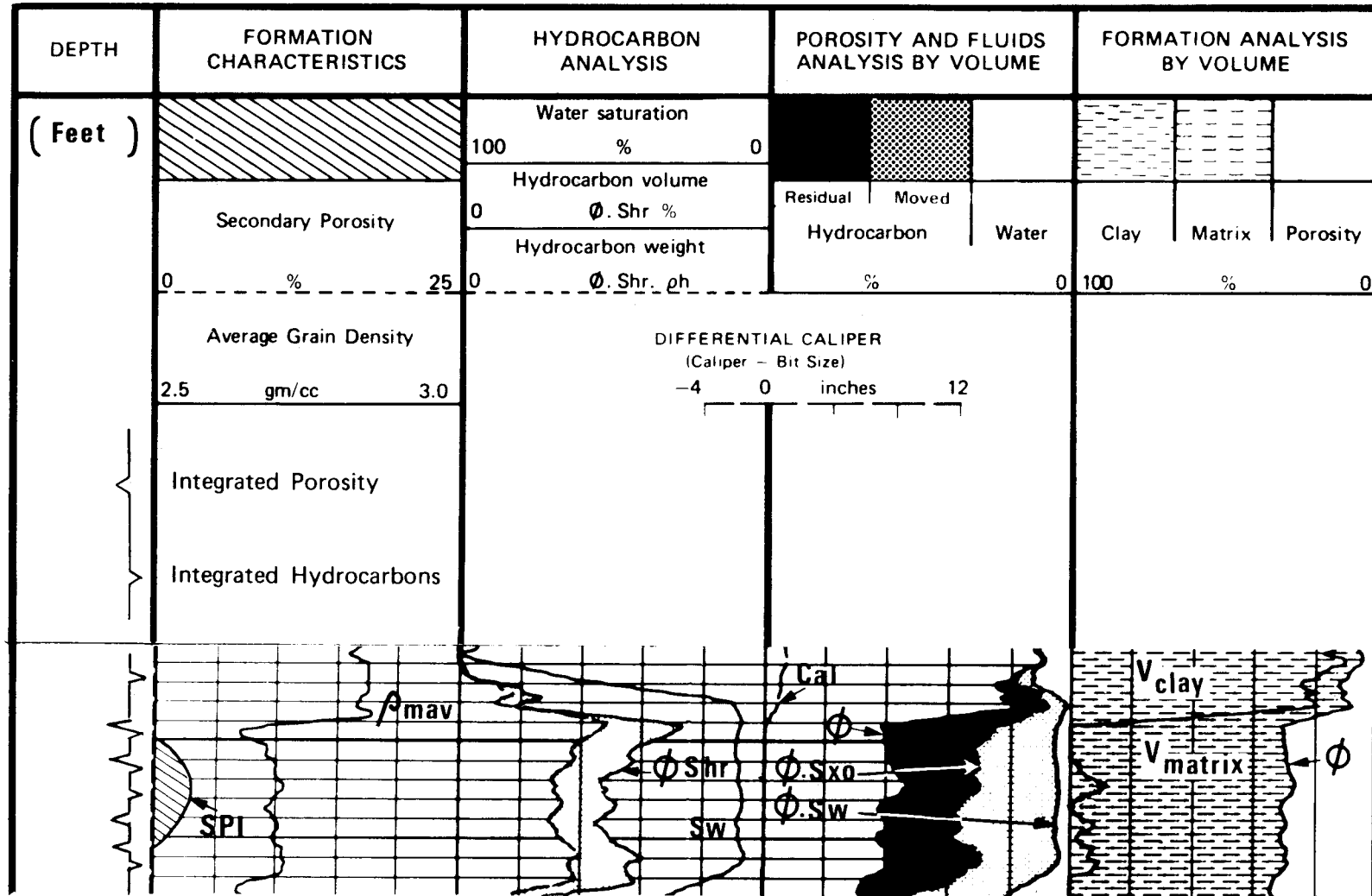
This iteration process continues until the new porosity differs from the previous value by less than 1 p.u.

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

CORIBAND

Analysis of Complex Lithology

ANALOG PRESENTATION



Depth Track

Track I

Track II

Track III

Track IV

Reservoir Inventory – Depth Track.

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

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

This information, available on the listing, is displayed only if $\emptyset.\text{Shr}$ and $\emptyset.\text{Shr}.\rho_h$ are not shown.

Formation Characteristics – Track I.

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

Hydrocarbon Analysis – Track II.

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

Porosity Analysis – Track III.

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

Bulk Volume Analysis – Track IV.

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

CORIBAND

Analysis of Complex Lithology

TABULAR LISTING DATA

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

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

CORIBAND

Analysis of Complex Lithology

CERT TAPE

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

Format Of CERT Tape

7 track, BCD, even parity, 556 or 800 BPI or 9 track, EBCDIC, 800 or 1600 BPI. Physical blocks of 4000 characters, 10 depth levels per block, format of each level : (40 F 10.3), one level per 6" of borehole, word one at each level contains depth. A tape label is written in the first two blocks. This label identifies client, well and parameter contained in each word.

For additional information please contact your local Schlumberger representative.


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*
* POROSITY CUT-OFFS      NONE      13.0 %      13.0 % (ONLY LEVELS ABOVE O/W CONTACT)
* SW CUT-OFFS           NONE      NONE      55.0 %
* DELTA-T CUT-OFFS     NONE      77.0      77.0
* CLAY CUT-OFFS        NONE      33.0 %     33.0 %
*
*****
*
*                      1935.0 TO 1964.2 METER
*
*          TOTAL          NET          NET PAY          METER
*          ****          ***          *****
* THICKNESS              (29.26)        14.93          14.93          METER
* AVERAGE POROSITY     (18.79)        32.44          32.44          %
* VOID VOLUME           5.50              4.84          4.84          POROSITY-METER
* AVER. PERMEABILITY (LOGARITHMIC) 1.61              MILLIDARCY
* SUM OF PERMEABILITY 2452.10          2451.43        2451.43        MILLIDARCY-METER
* HYDROCARBON PERCENTAGE 46.76          91.09          91.09          %
* HYDROCARBON VOID VOLUME 4.39          4.37          4.37          HYDROCARBON-METER
*
*****

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LISTING FLAGS :

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*****
P = POROSITY SMALLER THAN      13.0 %
S = WATER SATURATION HIGHER THAN 55.0 %
O = DELTA-T SMALLER THAN      77.0
C = CLAY CONTENT GREATER THAN  33.0 %

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DEPTH METER	CLAY CONTENT %	AVERAGE MATRIX DENSITY GMS/CC	WATER SATURATIONS		POROSITY		PERM MD	HYDROCARBONS		CUMULATIVE INTEGRATIONS	
			VIRGIN ZONE (%)	INVADED ZONE	TOTAL %	SECONDARY %		TOTAL %	MOVABLE %	POR-MT	HC-MT
1935.1	55.8	2.79	100.0		7.9	0.0	0.0	0.0	0.03	0.00	PS C
1935.4	70.7	2.82	100.0		5.3	0.0	0.0	0.0	0.04	0.00	PS C
1935.8	82.9	2.84	100.0		3.1	0.0	0.0	0.0	0.05	0.00	PS C
1936.1	91.6	2.85	100.0		1.5	0.0	0.0	0.0	0.06	0.00	PS C
1936.4	99.0	2.85	100.0		0.0	0.0	0.0	0.0	0.06	0.00	FS C
1936.7	99.0	2.85	100.0		0.0	0.0	0.0	0.0	0.06	0.00	FS C
1937.0	99.0	2.85	100.0		0.0	0.0	0.0	0.0	0.06	0.00	PS C
1937.3	99.0	2.85	100.0		0.0	0.0	0.0	0.0	0.06	0.00	PS C
1937.6	99.0	2.85	100.0		0.0	0.0	0.0	0.0	0.06	0.00	FS C
1937.9	99.0	2.85	100.0		0.0	0.0	0.0	0.0	0.06	0.00	FS C
1938.2	99.0	2.85	100.0		0.0	0.0	0.0	0.0	0.06	0.00	FS C
1938.5	94.7	2.85	100.0		1.0	0.0	0.0	0.0	0.06	0.00	FS C
1938.8	85.7	2.84	100.0		2.6	0.0	0.0	0.0	0.07	0.00	FS C
1939.1	84.0	2.84	100.0		2.9	0.0	0.0	0.0	0.08	0.00	FS C
1939.4	88.7	2.85	100.0		2.0	0.0	0.0	0.0	0.09	0.00	FS C
1939.7	85.7	2.84	100.0		2.6	0.0	0.0	0.0	0.09	0.00	FS C
1940.0	85.6	2.84	100.0		2.6	0.0	0.0	0.0	0.10	0.00	FS C
1940.3	88.8	2.85	100.0		2.0	0.0	0.0	0.0	0.11	0.00	FS C
1940.6	86.5	2.84	100.0		2.4	0.0	0.0	0.0	0.11	0.00	FS C
1940.9	81.9	2.84	100.0		3.3	0.0	0.0	0.0	0.12	0.00	FS C
1941.2	78.2	2.83	100.0		3.9	0.0	0.0	0.0	0.13	0.00	FS C
1941.5	71.0	2.82	100.0		5.2	0.0	0.0	0.0	0.15	0.00	FS C
1941.8	61.6	2.81	100.0		6.9	0.0	0.0	0.0	0.17	0.00	FS C
1942.2	57.5	2.80	100.0		7.6	0.0	0.0	0.0	0.19	0.00	FS C
1942.5	58.0	2.80	100.0		7.6	0.0	0.0	0.0	0.21	0.00	FS C
1942.8	62.8	2.81	100.0		6.7	0.0	0.0	0.0	0.24	0.00	FS C
1943.1	65.8	2.81	100.0		6.2	0.0	0.0	0.0	0.26	0.00	FS C
1943.4	67.1	2.82	100.0		5.9	0.0	0.0	0.0	0.27	0.00	FS C
1943.7	74.8	2.83	100.0		4.5	0.0	0.0	0.0	0.29	0.00	FS C
1944.0	81.6	2.84	100.0		3.3	0.0	0.0	0.0	0.30	0.00	FS C
1944.3	90.8	2.85	100.0		1.6	0.0	0.0	0.0	0.31	0.00	FS C
1944.6	90.4	2.85	100.0		1.7	0.0	0.0	0.0	0.31	0.00	FS C
1944.9	88.2	2.85	100.0		2.1	0.0	0.0	0.0	0.32	0.00	FS C
1945.2	87.8	2.85	100.0		2.2	0.0	0.0	0.0	0.32	0.00	FS C
1945.5	91.3	2.86	100.0		1.6	0.0	0.0	0.0	0.33	0.00	FS C
1945.8	85.4	2.85	100.0		2.6	0.0	0.0	0.0	0.34	0.00	FS C
1946.1	70.8	2.82	100.0		5.3	0.0	0.0	0.0	0.35	0.00	FS C
1946.4	64.1	2.81	100.0		6.5	0.0	0.0	0.0	0.37	0.00	FS C
1946.7	62.8	2.81	100.0		6.7	0.0	0.0	0.0	0.39	0.00	FS C
1947.0	60.7	2.81	100.0		7.1	0.0	0.0	0.0	0.41	0.00	FS C
1947.3	52.8	2.79	100.0		8.5	0.0	0.0	0.0	0.43	0.00	FS C
1947.6	41.3	2.75	100.0		10.6	0.0	0.1	0.0	0.47	0.00	FS C
1947.9	32.7	2.72	100.0		12.1	0.0	0.2	0.0	0.50	0.00	FS C
1948.2	33.0	2.73	100.0		12.1	0.0	0.2	0.0	0.54	0.00	PS C

DEPTH METER	CLAY CONTENT %	AVERAGE MATRIX DENSITY GMS/CC	WATER SATURATIONS		POROSITY		PERM MD	HYDROCARBONS		CUMULATIVE INTEGRATIONS		
			VIRGIN ZONE (%)	INVADED ZONE	TOTAL %	SECONDARY %		TOTAL %	MOVABLE %	POR-MT	HC-MT	
1948.6	36.3	2.73	100.0		11.5	0.0	0.1	0.0	0.57	0.00	PS C	
1948.9	44.9	2.76	100.0		9.9	0.0	0.1	0.0	0.60	0.00	PS C	
1949.2	45.0	2.76	55.4		21.5	0.0	2.2	9.6	0.65	0.00	S C	
1949.5	6.1	2.66	8.3		34.9	0.0	253.8	32.0	0.76	0.10		
1949.8	3.2	2.66	6.7		33.2	0.0	316.4	31.0	0.86	0.19		
1950.1	0.0	2.65	6.4		32.9	0.0	325.5	30.8	0.96	0.29		
1950.4	0.0	2.65	6.4		33.0	0.0	327.3	30.9	1.06	0.38		
1950.7	0.0	2.65	6.4		32.8	0.0	325.6	30.7	1.16	0.47		
1951.0	0.0	2.65	6.4		32.4	0.0	305.0	30.3	1.26	0.57		
1951.3	0.0	2.65	6.4		32.2	0.0	300.8	30.2	1.36	0.66		
1951.6	0.4	2.65	6.5		32.6	0.0	303.9	30.5	1.46	0.75		
1951.9	1.1	2.65	6.8		32.8	0.0	286.0	30.6	1.56	0.84		
1952.2	0.0	2.65	7.4		33.8	0.0	277.8	31.3	1.66	0.94		
1952.5	2.1	2.65	7.9		33.3	0.0	227.0	30.7	1.76	1.03		
1952.8	6.0	2.66	8.5		32.7	0.0	179.0	29.9	1.86	1.12		
1953.1	0.4	2.65	8.1		33.7	0.0	230.5	31.0	1.96	1.22		
1953.4	0.0	2.65	7.8		33.8	0.0	247.3	31.1	2.06	1.31		
1953.7	0.9	2.65	7.9		33.8	0.0	243.5	31.1	2.17	1.41		
1954.0	1.3	2.65	8.1		33.0	0.0	207.7	30.4	2.27	1.50		
1954.3	4.7	2.66	8.7		31.1	0.0	137.2	28.4	2.36	1.59		
1954.7	6.6	2.66	9.2		30.9	0.0	118.4	28.0	2.46	1.67		
1955.0	8.9	2.67	10.8		31.3	0.0	91.6	27.9	2.55	1.76		
1955.3	9.8	2.67	11.1		32.1	0.0	97.7	28.6	2.65	1.84		
1955.6	10.4	2.67	11.4		32.7	0.0	100.9	29.0	2.75	1.93		
1955.9	0.0	2.65	10.8		36.5	0.0	182.9	32.5	2.86	2.03		
1956.2	0.8	2.65	10.8		33.2	0.0	119.4	29.6	2.96	2.12		
1956.5	0.0	2.65	8.0		33.5	0.0	228.6	30.8	3.06	2.22		
1956.8	0.0	2.65	9.5		34.3	0.0	179.6	31.0	3.17	2.31		
1957.1	3.7	2.66	10.1		32.9	0.0	131.5	29.6	3.27	2.40		
1957.4	5.7	2.66	8.6		31.0	0.0	139.4	28.3	3.37	2.49		
1957.7	1.5	2.65	8.7		32.6	0.0	169.9	29.8	3.46	2.58		
1958.0	5.1	2.66	9.5		31.9	0.0	127.8	28.8	3.56	2.67		
1958.3	8.0	2.67	10.2		30.8	0.0	95.3	27.7	3.66	2.75		
1958.6	9.4	2.67	11.6		29.5	0.0	60.6	26.0	3.75	2.83		
1958.9	7.1	2.67	9.9		29.8	0.0	88.6	26.9	3.84	2.91		
1959.2	5.6	2.66	8.7		30.4	0.0	124.9	27.7	3.93	3.00		
1959.5	0.6	2.65	8.6		33.1	0.0	187.0	30.2	4.03	3.09		
1959.8	4.8	2.66	8.8		30.8	0.0	128.5	28.1	4.12	3.18		
1960.1	6.1	2.66	9.7		30.2	0.0	98.3	27.3	4.22	3.26		
1960.4	8.4	2.67	11.8		29.0	0.0	54.9	25.6	4.31	3.34		
1960.7	6.6	2.66	17.5		30.2	0.0	29.9	24.9	4.40	3.41		
1961.1	6.2	2.66	17.9		30.1	0.0	28.0	24.7	4.49	3.49		
1961.4	9.9	2.67	19.0		29.0	0.0	21.1	23.5	4.58	3.56		
1961.7	13.6	2.68	18.2		27.0	0.0	16.6	22.1	4.66	3.63		

DEPTH METER	CLAY CONTENT %	AVERAGE MATRIX DENSITY GMS/CC	WATER SATURATIONS		POROSITY		PERM MD	HYDROCARBONS		CUMULATIVE INTEGRATIONS	
			VIRGIN ZONE (%)	INVADED ZONE	TOTAL %	SECONDARY %		TOTAL %	MOVABLE %	POR-MT	HC-MT
1962.0	1.9	2.65	11.6		33.0	0.0	101.1	29.2		4.76	3.72
1962.3	1.0	2.65	11.3		33.1	0.0	108.1	29.4		4.86	3.81
1962.6	3.3	2.66	10.5		32.9	0.0	121.0	29.4		4.96	3.90
1962.9	8.2	2.67	10.4		31.0	0.0	94.9	27.7		5.06	3.98
1963.2	8.0	2.67	10.4		30.2	0.0	83.5	27.0		5.15	4.06
1963.5	5.9	2.66	10.1		32.5	0.0	125.7	29.3		5.25	4.15
1963.8	6.4	2.66	10.4		33.0	0.0	125.1	29.5		5.35	4.24
1964.1	4.0	2.66	10.9		33.3	0.0	119.6	29.7		5.45	4.33

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CCC          000      000 RRR      RRR EEE          NNN      NNN GGG
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CCC          000      000 RRR      RRR EEE          NNN      NNN GGG
CCC          000      000 RRR      RRR EEE          NNN      NNN GGG
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CCC          000      000 RRR      RRR EEE          NNN      NNN GGG
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CCC          000      000 RRR      RRR EEE          NNN      NNN GGG
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CONTROL FILE = CORCON.001 INPUT FILE = PREOUT.FIN
ENGINEER LISTING = CORENG.001 OUTPUT ANS. = COROUT.001
SUPER PLOT CONTROL FILE = CORSUP.001

SCHLUMBERGER TEC. SERVICES
CORIBAND VERSION COR007 DATE 05/10/76

MODEL	DEPLO 2123.00	DEPUP 2054.00	RW 0.080	RMF 0.18	FL TEMP 143.00	BIT SIZE 8.50	SCDA 52.00
SHALE	RSH 2.00	DTSH 130.00	PHINSH 40.00	ROBSH 2.34	GR SD 21.00	GR SH 80.00	PHIMAX 39.00
X-PLOTS	ROBIN 2.60	ROB2N 2.26	DT1N 60.00	DT2N 60.00	DT1D 92.00	DT2D 48.00	
GAS	ROH 0.70	DTF 189.00		SSP 100.00	SP2 1.00	EXPWXO 0.20	EXPHI -1.00
EXPO	CFE 0.80	EXPW 2.00	EXPXD 2.00	SRH FAC 0.70	EXPVSH 1.40	EXPA 0.10	EXPO 1.00
LOG1	LSP 2	LGR 3	LMLL 6	LPL 0	LSNP 0	LCNL 13	
LOG2	LFD 14	LSL 15	LDP 9	LDRD 21	LRT 22		
NOVSH-1	KSP 0.	KRT 0.		KXO 1.	KGR 0.		
NOVSH-2	KCDN 0.	KCSN 0.	KCDS 0.				
MISC-1	EXPAND 1.00	SMOOTH 5.00	SW EQ 0.00	LIST 3.00	EXC FAC 1.30	ROHRW 0.00	UNITS 1.00
MISC-2	RTLIM 10000.00	PHIMIN 0.00	ROMF 1.01	PPK 17.14	SP1 1.00	KSO 0.00	RP MIN 0.00
MISC-3		AFT. PLT 2.00	SIZE PLT 0.00	ROBCR 1.00	PHINCR 100.00	DTCH 0.00	KOBM 0.00
MISC-4	SXOI 0.00	ROMASH 2.85				DPMIN 0.00	DROMAX 0.10
MISC-5	ROB2 2.00	ROB3 3.00	ROMAX 1 3.00	SONLIM 1.00	DTMIN 50.00	COEDT 139.00	DDMAX 0.20
CURIBAND	DTD 43.50	DTS 55.50	ROMA1 2.65	ROMA2 2.65	KSPI 1.00	SED 0.00	
MANUAL	SNP1 10.00	SNP2 50.00	NH 0.00	RO1 0.00	RO2 0.00	DT1 0.00	DT2 0.00

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

DEPTH	RT	PHIN	ROB	DT	VSH ***	ROMA ****	SW **	SXO	POR ***	SPI	GR	PHIL	DD	SWP	SXP	ROMA	SH	P	CO	LI
2122.3	0.5	32.0	2.10	103	5	2.66	100	100	33.1		28	35.4	-0.05	102	101	2.66	DS			MA
2121.4	0.5	31.5	2.11	104	5	2.66	100	100	32.5		24	36.3	-0.05	106	103	2.66	GR			MA
2120.5	0.5	31.5	2.12	105	3	2.66	100	100	32.9		23	37.7	0.00	104	104	2.67	GR			MA
2119.6	0.5	32.1	2.09	104	4	2.66	100	100	33.7		23	36.4	0.00	101	101	2.66	GR			MA
2118.7	0.5	31.4	2.09	104	0	2.65	100	100	34.7		20	39.4	-0.05	101	102	2.66	GR			MA
2117.8	0.5	33.4	2.08	105	3	2.66	100	100	34.8		23	37.5	-0.05	101	99	2.67	GR			MA
2116.8	0.4	35.1	2.07	107	5	2.66	100	100	35.5		24	38.3	0.00	101	101	2.68	GR			MA
2115.9	0.4	34.0	2.06	107	6	2.67	100	100	34.9		25	37.7	0.05	103	105	2.65	DS			MA
2115.0	0.4	35.3	2.06	107	5	2.66	100	100	35.8		24	37.8	0.00	100	104	2.67	DS			MA
2114.1	0.4	33.2	2.07	106	1	2.65	100	100	35.6		22	39.4	0.00	102	105	2.67	GR			MA
2113.2	0.4	32.2	2.08	105	1	2.65	100	100	35.1		21	39.3	0.00	103	109	2.66	GR			MA
2112.3	0.4	33.3	2.06	105	2	2.66	100	100	35.6		26	38.3	0.00	101	105	2.66	DS			MA
2111.3	0.4	32.7	2.07	104	2	2.66	100	100	35.1		24	37.6	0.00	103	108	2.66	DS			MA
2110.4	0.4	32.7	2.08	104	4	2.66	100	100	34.3		23	36.8	-0.05	103	107	2.66	DS			MA
2109.5	0.4	33.4	2.08	105	4	2.66	100	100	34.7		23	37.3	-0.05	102	103	2.67	GR			MA
2108.6	0.4	34.2	2.07	104	1	2.65	99	100	36.3		23	38.2	-0.15	99	100	2.67	DS			MA
2107.7	0.4	35.1	2.06	105	3	2.66	99	100	36.5		23	38.2	-0.10	99	100	2.68	DS			MA
2106.8	0.4	35.4	2.06	104	0	2.65	99	99	37.7		24	39.2	-0.10	97	98	2.68	DS			MA
2105.9	0.5	35.1	2.12	103	4	2.66	100	100	34.7		23	35.9	-0.10	102	101	2.71	GR			MA
2104.9	0.5	31.1	2.10	99	0	2.65	100	100	34.3		23	35.8	-0.10	103	107	2.67	DS			MA
2104.0	0.5	33.5	2.10	99	0	2.65	99	99	35.4		23	35.8	-0.10	97	98	2.69	DS			MA
2103.1	0.5	31.4	2.12	102	0	2.65	100	100	34.0		20	38.1	-0.10	100	104	2.68	GR			MA
2102.2	0.5	31.8	2.08	103	0	2.65	99	99	35.0		21	38.6	-0.10	98	103	2.66	GR			MA
2101.3	0.5	32.9	2.09	104	0	2.65	99	99	35.3		21	39.0	-0.15	96	101	2.68	GR			MA
2100.4	0.5	31.4	2.09	104	0	2.65	100	100	34.7		20	39.1	-0.15	100	104	2.67	GR			MA
2099.5	0.5	31.9	2.07	105	0	2.65	99	100	35.6		21	39.5	-0.10	99	102	2.65	GR			MA
2098.5	0.5	33.7	2.05	107	2	2.66	99	99	36.1		22	39.4	-0.05	94	99	2.66	GR			MA
2097.6	0.5	36.6	2.09	109	15	2.68	98	98	32.7		31	34.1	-0.05	92	88	2.69	DS			MA
2096.7	0.5	33.5	2.08	105	3	2.66	99	99	34.8		23	37.8	0.00	97	99	2.67	GR			MA
2095.8	0.5	34.5	2.08	104	2	2.66	99	99	35.8		22	37.8	0.00	99	96	2.68	GR			MA
2094.9	0.4	35.9	2.06	108	0	2.65	99	99	38.1		20	42.4	0.00	99	98	2.69	GR			MA
2094.0	0.5	36.9	2.09	109	5	2.66	99	99	35.8		24	39.3	-0.15	97	96	2.71	GR			MA
2093.1	0.5	38.6	2.12	107	10	2.67	97	99	34.3		27	35.0	-0.15	90	96	2.74	GR			MA
2092.1	0.8	38.1	2.14	111	28	2.71	85	97	27.8		39	27.9	0.00	81	90	2.71	DS			MA
2091.2	1.0	48.9	2.16	136	39	2.75	79	99	23.5		44	39.7	0.25	78	97	3.26	GR	*		MA
2090.3	1.0	41.3	2.20	104	25	2.71	85	99	25.1		40	25.1	-0.05	81	113	2.85	DS	"		MA
2089.4	0.8	36.6	2.18	113	32	2.72	92	97	24.5		40	26.9	-0.15	85	89	2.71	GR			MA
2088.5	0.8	36.6	2.16	105	16	2.69	86	86	30.2		30	30.3	-0.15	81	78	2.75	GR			MA
2087.6	0.7	39.5	2.13	108	20	2.70	93	96	30.6		38	30.6	-0.05	85	88	2.75	DS	"		MA
2086.7	0.6	35.3	2.10	108	14	2.68	93	97	32.1		29	34.1	-0.10	86	90	2.68	GR			MA
2085.7	0.8	39.8	2.17	104	19	2.69	93	93	27.6		38	27.6	-0.10	86	86	2.82	DS	"		MA
2084.8	0.8	35.3	2.19	102	20	2.69	98	99	26.2		37	26.2	-0.10	91	95	2.74	DS	"		MA
2083.9	0.8	36.0	2.23	100	21	2.70	99	99	24.0		44	24.0	-0.10	93	97	2.78	DS	"		MA
2083.0	0.9	42.0	2.19	116	46	2.75	92	92	20.8		49	20.8	0.00	85	74	2.84	DS	"		MA
2082.1	0.7	52.5	2.14	131	53	2.78	99	99	18.2		52	27.6	0.05	98	86	3.31	GR	*		MA
2081.2	0.7	44.5	2.12	124	35	2.73	95	99	25.1		42	33.2	-0.15	88	105	2.81	GR	*		MA
2080.3	0.9	43.3	2.15	120	49	2.76	92	99	19.8		51	22.7	0.10	85	106	2.77	DS	*		MA
2079.3	1.0	49.5	2.08	129	52	2.78	92	99	18.4		53	26.6	0.00	85	105	3.01	DS	*		MA
2078.4	1.0	45.3	2.01	133	43	2.76	83	99	21.9		51	35.0	0.05	80	103	2.67	DN	*		MA
2077.5	0.9	36.3	2.12	111	24	2.70	78	87	28.9		45	30.3	-0.10	77	82	2.69	DS			MA

DEPTH	RT	PHIN	ROB	DT	VSH ***	ROMA ****	SW **	SXO	POR ***	SPI	GR	PHIL	DD	SWP	SXP	ROMA	SH	P	CO	LI
2076.6	0.8	37.4	2.13	110	25	2.71	81	81	28.6		46	29.0	-0.10	79	78	2.72	DS		MA	
2075.7	0.8	39.1	2.15	110	28	2.71	84	84	27.1		46	27.1	-0.10	80	79	2.77	DS	"	MA	
2074.8	0.9	41.8	2.14	112	30	2.72	77	78	27.2		50	27.6	-0.10	77	77	2.82	DS	*	MA	
2073.9	0.9	50.9	2.06	137	56	2.79	99	99	16.9		54	30.4	0.30	93	116	3.21	GR	*	MA	
2072.9	0.9	47.9	2.12	128	61	2.80	99	99	14.9		57	20.9	0.40	95	117	2.91	GR	*	MA	
2072.0	0.7	31.8	2.15	105	17	2.69	97	99	27.8		36	29.7	-0.10	90	95	2.67	DS		MA	
2071.1	0.7	54.8	2.09	137	46	2.77	99	99	20.7		48	36.3	-0.15	93	119	3.29	GR	*	MA	
2070.2	0.8	53.2	2.13	139	42	2.76	92	99	22.4		46	40.1	0.20	85	110	3.30	GR	*	MA	
2069.3	0.7	44.8	2.18	128	45	2.76	99	99	21.1		48	30.3	-0.10	95	113	2.91	GR	*	MA	
2068.4	0.5	34.7	2.05	110	1	2.65	97	99	37.1		21	42.8	0.00	90	95	2.67	GR		MA	
2067.5	0.5	35.0	2.06	113	4	2.66	99	99	36.2		23	42.8	0.00	93	92	2.68	GR		MA	
2066.5	0.5	34.7	2.07	108	0	2.65	97	99	37.1		21	41.5	0.05	90	98	2.68	GR		MA	
2065.6	0.7	51.7	2.08	152	22	2.71	93	99	30.3		34	60.9	0.40	86	104	3.24	GR	*	MA	
2064.7	0.7	51.3	2.02	136	33	2.74	96	99	25.8		40	42.4	0.00	88	114	2.95	GR	*	MA	
2063.8	0.6	38.0	2.08	105	4	2.66	84	99	37.0		38	37.0	-0.10	80	100	2.71	DS	"	MA	
2062.9	0.5	39.0	2.04	108	3	2.66	95	98	37.5		23	39.8	-0.15	88	91	2.71	GR	*	MA	
2062.0	0.6	48.9	2.05	123	17	2.70	96	99	32.2		31	43.2	0.00	88	103	2.93	GR	*	MA	
2061.1	0.6	46.6	2.12	121	25	2.71	96	99	28.9		36	36.6	-0.05	88	100	2.96	GR	*	MA	
2060.1	0.8	46.2	2.13	123	31	2.73	89	99	26.9		39	35.2	-0.15	83	95	2.97	GR	*	MA	
2059.2	0.9	41.3	2.16	115	39	2.74	88	92	23.5		45	24.2	-0.05	83	85	2.79	DS	*	MA	
2058.3	0.9	40.0	2.18	112	37	2.73	89	89	23.5		49	23.5	-0.05	83	83	2.79	DS	"	MA	
2057.4	0.9	41.8	2.15	109	26	2.71	79	82	27.6		51	27.6	-0.10	78	79	2.84	DS	"	MA	
2056.5	1.0	42.9	2.21	120	54	2.77	93	93	17.6		53	18.8	0.00	86	75	2.88	GR	*	MA	
2055.6	1.0	34.5	2.20	102	20	2.69	86	99	25.6		38	25.6	-0.05	81	94	2.73	DS	"	MA	
2054.7	1.0	41.8	2.20	113	43	2.75	85	90	20.8		46	20.8	1.30	81	84	2.85	GR	"	MA	

MODEL	DEPLO 2054.00	DEPUP 1986.10	RW 0.076	RMF 0.18	FL TEMP 138.00	BIT SIZE 8.50	SCDA 52.00
SHALE	RSH 2.00	DTSH 130.00	PHINSH 40.00	ROBSH 2.34	GR SD 18.00	GR SH 80.00	PHIMAX 39.00
X-PLOTS	ROB1N 2.60	ROB2N 2.26	DT1N 60.00	DT2N 60.00	DT1D 92.00	DT2D 48.00	
CAS	ROH 0.70	DTF 189.00		SSP 100.00	SP2 1.00	EXPWXO 0.20	EXPHI -1.00
EXPO	CFE 0.80	EXPW 2.00	EXPXO 2.00	SRH FAC 0.60	EXPVSH 1.40	EXPA 0.10	EXPO 1.00
LUG1	LSP 2	LGR 3	LMLL 6	LPL 0	LSNP 0	LCNL 13	
LOG2	LFD 14	LSL 15	LDP 9	LDRO 21	LRT 22		
NOVSH-1	KSP 0.	KRT 0.		KXU 1.	KGR 0.		
NOVSH-2	KCDN 0.	KCSN 0.	KCDS 0.				
MISC-1	EXPAND 1.00	SMOOTH 5.00	SW EQ 0.00	LIST 3.00	EXC FAC 1.30	RDHRW 0.00	UNITS 1.00
MISC-2	RTLIM 10000.00	PHIMIN 0.00	ROMF 1.01	PPK 17.33	SP1 1.00	KSO 0.00	RP MIN 0.00
MISC-3		AFT. PLT 2.00	SIZE PLT 0.00	ROBCR 1.00	PHINCR 100.00	DTCR 0.00	KOBM 0.00
MISC-4	SX01 0.00	ROMASH 2.85				DPMIN 0.00	DRUMAX 0.10
MISC-5	ROB2 2.00	ROB3 3.00	ROMAX 1 3.00	SUNLJM 1.00	DTMIN 50.00	COEDT 139.00	DDMAX 0.20
CORIBAND	DTD 43.50	DT5 55.50	ROMA1 2.65	ROMA2 2.65	KSPI 1.00	SED 0.00	
MANUAL	SNP1 10.00	SNP2 50.00	NH 0.00	RO1 0.00	RO2 0.00	DT1 0.00	DT2 0.00

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

DEPTH	RT	PHIN	ROB	DT	VSH	ROMA	Sw	SXO	POR	SPI	GR	PHIL	DD	SWP	SXP	ROMA	SH	P	CO	LI
					***	****	**		***											
2053.7	0.6	35.0	2.08	105	6	2.66	94	99	34.9		33	36.4	0.10	86	98	2.68	DS			MA
2052.8	0.4	34.8	2.08	107	5	2.66	99	99	35.0		21	38.4	0.10	98	98	2.68	GR			MA
2051.9	0.4	33.2	2.07	106	6	2.66	100	100	34.3		21	37.1	0.05	100	104	2.66	GR			MA
2051.0	0.5	33.1	2.08	106	1	2.65	97	99	35.4		19	39.7	0.05	89	105	2.67	GR			MA
2050.1	0.7	38.5	2.18	112	37	2.73	96	96	23.3		44	23.3	-0.05	89	81	2.74	DS	"		MA
2049.2	0.6	36.1	2.13	104	11	2.68	98	99	32.2		40	32.2	0.00	92	100	2.71	DS	"		MA
2048.3	0.5	32.9	2.10	107	10	2.67	99	99	31.9		24	35.4	-0.10	97	102	2.66	GR			MA
2047.3	0.5	33.7	2.10	106	6	2.66	99	99	33.8		21	37.0	0.00	97	102	2.68	GR			MA
2046.4	0.5	32.6	2.09	109	6	2.66	100	100	33.2		22	39.0	0.05	100	107	2.66	GR			MA
2045.5	0.5	33.3	2.05	106	3	2.66	99	99	35.9		20	39.0	0.05	96	102	2.65	DS			MA
2044.6	0.4	31.1	2.07	106	0	2.65	100	100	35.1		19	40.5	0.05	100	107	2.65	DN			MA
2043.7	0.5	33.4	2.07	108	3	2.66	99	99	35.3		20	40.5	0.05	96	112	2.67	GR			MA
2042.8	0.5	34.2	2.08	111	9	2.67	99	99	33.6		24	38.4	0.10	97	99	2.66	GR			MA
2041.9	0.5	34.1	2.07	107	4	2.66	99	99	35.3		20	38.4	0.15	97	104	2.67	GR			MA
2040.9	0.7	43.6	2.15	124	15	2.69	76	99	33.1		27	45.0	0.15	76	95	2.87	GR	*		MA
2040.0	0.9	45.9	2.17	114	40	2.74	85	99	23.2		46	23.3	0.10	81	97	3.03	DS	*		MA
2039.1	0.8	46.8	2.13	124	49	2.77	95	99	19.8		48	25.5	0.15	88	98	2.94	GR	*		MA
2038.2	0.6	38.0	2.13	115	34	2.73	99	99	25.4		40	27.3	-0.05	98	99	2.67	DS	*		MA
2037.3	0.4	32.8	2.06	113	4	2.66	100	100	34.9		21	42.8	0.05	100	101	2.65	DN			MA
2036.4	0.4	33.9	2.03	110	1	2.65	99	99	37.4		18	42.7	0.10	95	97	2.65	GR			MA
2035.5	0.4	33.3	2.07	110	2	2.65	99	99	35.8		19	42.2	0.05	99	99	2.66	GR			MA
2034.5	0.5	35.1	2.07	112	4	2.66	98	99	36.0		20	42.6	0.05	91	97	2.68	GR			MA
2033.6	0.5	34.4	2.09	109	3	2.66	99	99	35.3		20	40.6	0.05	93	101	2.69	GR			MA
2032.7	0.6	35.9	2.10	112	7	2.67	90	99	34.4		22	40.3	0.00	83	92	2.70	GR			MA
2031.8	0.8	33.6	2.12	112	10	2.67	83	97	31.8		24	39.2	0.05	80	90	2.69	GR			MA
2030.9	0.8	34.8	2.15	111	11	2.67	80	92	31.3		24	38.0	0.10	78	85	2.72	GR			MA
2030.0	0.8	32.4	2.36	96	16	2.68	100	100	22.0		28	23.7	0.20	102	144	2.83	GR			MA
2029.1	0.8	36.7	2.26	108	24	2.70	95	99	24.7		33	28.0	0.25	88	94	2.82	GR			MA
2028.1	0.7	47.4	2.02	117	18	2.70	82	99	31.7		33	37.6	0.20	79	103	2.81	DS	*		MA
2027.2	0.7	48.6	2.11	128	28	2.72	87	99	27.7		35	39.7	0.20	82	102	3.05	GR	*		MA
2026.3	0.7	48.5	2.14	132	42	2.75	98	99	22.6		44	35.1	0.05	91	107	3.12	GR	*		MA
2025.4	0.7	37.7	2.13	120	29	2.72	95	99	27.6		36	33.9	0.00	87	92	2.69	GR	*		MA
2024.5	0.5	39.1	2.09	123	27	2.71	99	99	28.3		35	37.4	0.00	96	107	2.68	GR	*		MA
2023.6	0.6	40.9	2.13	117	35	2.73	99	99	25.2		39	28.5	0.00	93	89	2.73	GR	*		MA
2022.7	0.7	42.3	2.14	120	46	2.76	98	99	21.0		46	24.0	0.00	92	94	2.74	GR	*		MA
2021.7	0.7	42.8	2.11	123	32	2.73	96	99	26.3		38	33.7	-0.10	88	95	2.77	GR	*		MA
2020.8	0.5	36.8	2.05	116	18	2.69	99	99	31.9		33	37.7	0.05	94	103	2.65	DN	*		MA
2019.9	0.6	37.1	2.02	108	1	2.65	86	99	38.4		25	41.3	0.00	81	97	2.68	DS	*		MA
2019.0	0.6	37.9	2.11	115	24	2.71	92	99	29.5		33	33.4	0.00	85	99	2.69	GR	*		MA
2018.1	0.7	39.7	2.14	114	34	2.73	97	97	25.5		39	26.5	0.00	90	81	2.72	DS	*		MA
2017.2	0.5	36.3	2.09	109	12	2.68	98	99	33.2		25	35.7	0.00	91	100	2.69	GR			MA
2016.3	0.6	34.6	2.10	109	17	2.69	98	98	30.4		35	32.5	0.00	91	84	2.67	DS			MA
2015.3	0.4	34.9	2.03	106	0	2.65	99	99	38.0		25	40.5	0.05	97	98	2.66	DS			MA
2014.4	0.4	33.8	2.05	107	2	2.65	99	99	36.4		19	39.8	0.05	97	101	2.66	GR			MA
2013.5	0.5	37.2	2.04	108	3	2.66	98	99	37.7		20	39.9	0.00	91	102	2.69	GR	*		MA
2012.6	0.4	35.3	2.07	110	4	2.66	99	99	36.1		20	40.6	0.00	97	107	2.68	GR			MA
2011.7	0.4	36.3	2.06	107	3	2.66	99	99	37.3		20	39.5	0.05	95	102	2.68	GR			MA
2010.8	0.4	33.6	2.07	107	1	2.65	99	99	36.2		18	41.0	0.00	98	104	2.67	GR			MA
2009.9	0.4	34.2	2.06	108	3	2.66	99	99	36.2		19	40.6	0.05	98	99	2.66	GR			MA
2008.9	0.4	32.6	2.04	108	0	2.65	99	99	37.0		18	42.1	-0.10	98	105	2.64	DN			MA

DEPTH	RT	PHIN	ROB	DT	VSH	ROMA	SW	SXD	POR	SPI	GR	PHIL	DD	SWP	SXP	ROMA	SH	P	CO	LI
					***	****	**		***											
2008.0	0.4	33.0	2.04	108	1	2.65	100	100	36.6		18	41.6	-0.15	100	106	2.65	GR			MA
2007.1	0.6	32.1	2.07	107	3	2.66	95	98	34.9		20	39.7	-0.15	88	92	2.66	DN			MA
2006.2	0.7	32.7	2.05	108	0	2.65	75	75	36.5		19	41.4	-0.20	75	75	2.67	DN			MA
2005.3	0.8	37.3	2.08	110	5	2.66	72	72	36.1		21	39.9	-0.15	72	71	2.73	GR			MA
2004.4	0.8	38.0	2.14	109	24	2.70	77	77	29.0		39	29.0	-0.20	76	74	2.73	DS	"		MA
2003.5	0.7	34.2	2.09	110	16	2.69	85	93	31.1		29	34.3	-0.20	81	85	2.66	DN			MA
2002.5	0.9	34.4	2.14	109	23	2.70	80	95	27.3		32	29.3	-0.10	78	87	2.67	GR			MA
2001.6	0.9	40.8	2.12	115	15	2.69	70	74	33.0		27	38.2	-0.10	70	74	2.81	GR	*		MA
2000.7	0.9	31.5	2.07	103	0	2.65	70	79	35.2		29	38.2	-0.20	70	78	2.67	DS			MA
1999.8	0.8	33.0	2.09	101	0	2.65	72	72	35.7		22	37.2	-0.20	72	71	2.69	DS			MA
1998.9	0.7	30.9	2.06	104	0	2.65	83	86	35.3		19	39.0	-0.20	80	82	2.66	DN			MA
1998.0	0.7	32.6	2.06	106	2	2.66	83	89	35.4		19	38.9	-0.20	80	83	2.66	DN			MA
1997.0	0.7	32.3	2.09	102	1	2.65	83	84	34.8		19	37.0	-0.20	80	80	2.68	DS			MA
1996.1	0.6	32.5	2.08	102	0	2.65	87	87	35.8		18	37.9	-0.20	82	81	2.68	DS			MA
1995.2	0.6	32.0	2.08	102	0	2.65	91	93	35.4		16	37.4	-0.20	84	86	2.67	GR			MA
1994.3	0.7	31.0	2.10	100	0	2.65	87	93	34.3		18	36.6	-0.20	82	86	2.67	DS			MA
1993.4	0.8	32.3	2.16	104	4	2.66	84	96	32.0		20	36.7	-0.20	80	88	2.71	GR			MA
1992.5	0.7	31.1	2.09	102	1	2.65	89	99	34.3		21	37.0	-0.20	83	94	2.66	DS			MA
1991.6	0.6	30.9	2.08	103	0	2.65	97	99	34.9		17	38.2	-0.20	90	96	2.65	GR			MA
1990.6	0.6	32.0	2.09	102	1	2.65	97	99	34.5		20	36.7	-0.20	90	94	2.67	DS			MA
1989.7	0.6	32.0	2.07	104	1	2.65	95	99	35.4		20	38.3	-0.20	87	96	2.66	DS			MA
1988.8	0.6	33.4	2.07	104	2	2.65	95	96	35.7		19	37.9	0.05	88	89	2.67	GR			MA
1987.9	0.5	33.6	2.08	103	0	2.65	97	99	36.1		18	38.6	0.05	90	92	2.68	GR			MA
1987.0	0.7	34.3	2.08	96	0	2.65	93	97	33.3		21	33.3	0.00	85	89	2.70	DS	"		MA
1986.1	0.8	32.2	2.11	95	0	2.65	87	99	33.0		21	33.0	0.05	82	96	2.69	DS	"		MA

MODEL	DEPLO 1986.10	DEPUP 1985.00	RW 0.076	RMF 0.18	FL TEMP 138.00	BIT SIZE 8.50	SCDA 52.00
SHALE	RSH 2.00	DTSH 130.00	PHINSH 40.00	ROBSH 2.34	GR SD 18.00	GR SH 80.00	PHIMAX 39.00
X-PLOTS	ROB1N 2.60	ROB2N 2.26	DT1N 60.00	DT2N 60.00	DT1D 92.00	DT2D 48.00	
CAS	ROH 0.70	DTF 189.00		SSP 100.00	SP2 1.00	EXPWXO 0.20	EXPHI -1.00
EXPU	CFF 0.80	EXPW 2.00	EXPXD 2.00	SRH FAC 0.45	EXPVSH 1.40	EXPA 0.10	EXPO 1.00
LOG1	LSP 2	LGR 3	LMLL 6	LPL 0	LSNP 0	LCNL 13	
LOG2	LFD 14	LSL 15	LDP 9	LDRU 21	LRT 22		
NOVSH-1	KSP 0.	KRT 0.		KXO 1.	KGR 0.		
NOVSH-2	KCDN 0.	KCSN 0.	KCDS 0.				
MISC-1	EXPAND 1.00	SMOOTH 5.00	SW EQ 0.00	LIST 3.00	EXC FAC 1.30	ROHRW 0.00	UNITS 1.00
MISC-2	RTLIM 10000.00	PHIMIN 0.00	ROMF 1.01	PPK 17.33	SP1 1.00	KSO 0.00	RP MIN 0.00
MISC-3		AFT. PLT 2.00	SIZE PLT 0.00	ROBCR 1.00	PHINCR 100.00	DTCR 0.00	KOBM 0.00
MISC-4	SXU1 0.00	ROMASH 2.85				DPMIN 0.00	DRUMAX 0.10
MISC-5	ROB2 2.00	ROB3 3.00	ROMAX 1 3.00	SONLIM 1.00	DTMIN 50.00	COEDT 139.00	DDMAX 0.20
CORIBAND	DTD 43.50	DTS 55.50	ROMA1 2.65	ROMA2 2.65	KSPI 1.00	SED 0.00	
MANUAL	SNP1 10.00	SNP2 50.00	NH 0.00	RO1 0.00	RO2 0.00	DT1 0.00	DT2 0.00

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DEPTH	RT	PHIN	ROB	DT	VSH	ROMA	SW	SXO	PUR	SPI	GR	PHIL	DD	SWP	SXP	ROMA	SH	P	CO	LI
1985.2	1.0	34.1	2.19	101	18	2.69	80	94	26.6		33	26.6	0.05	78	87	2.72	DS	*		MA

MODEL	DEPLO 1985.00	DEPUP 1964.40	RW 0.066	RMF 0.19	FL TEMP 137.00	BIT SIZE 8.50	SCDA 52.00
SHALE	RSH 2.00	DTSH 130.00	PHINSH 40.00	ROBSH 2.34	GR SD 20.00	GR SH 80.00	PHIMAX 39.00
X-PLOTS	ROBIN 2.60	ROB2N 2.26	DT1N 60.00	DT2N 60.00	DT1D 92.00	DT2D 48.00	
GAS	KOH 0.70	DTF 189.00		SSP 100.00	SP2 1.00	EXPWXU 0.20	EXPHI -1.00
EXPO	CFE 0.80	EXPW 2.00	EXPXU 2.00	SRH FAC 0.55	EXPVSH 1.40	EXPA 0.10	EXPO 1.00
LOG1	LSP 2	LGR 3	LMLL 6	LPL 0	LSNP 0	LCNL 13	
LOG2	LFD 14	LSL 15	LDP 9	LDRO 21	LRT 22		
NOVSH-1	KSP 0.	KRT 0.		KXO 1.	KGR 0.		
NOVSH-2	KCDN 0.	KCSN 0.	KCDS 0.				
MISC-1	EXPAND 1.00	SMOOTH 5.00	SW EQ 0.00	LIST 3.00	EXC FAC 1.30	ROHRW 0.00	UNITS 1.00
MISC-2	RTLIM 10000.00	PHIMIN 0.00	ROMF 1.01	PPK 17.38	SP1 1.00	KSO 0.00	RP MIN 0.00
MISC-3		AFT. PLT 2.00	SIZE PLT 0.00	ROBCR 1.00	PHINCR 100.00	DTCR 0.00	KOBM 0.00
MISC-4	SXOI 0.00	ROMASH 2.85				DPMIN 0.00	DROMAX 0.10
MISC-5	ROB2 2.00	ROB3 3.00	ROMAX 1 3.00	SONLIM 1.00	DTMIN 50.00	COEDT 139.00	DDMAX 0.20
CORIBAND	DTD 43.50	DT5 55.50	ROMA1 2.65	ROMA2 2.65	KSPI 1.00	SED 0.00	
MANUAL	SNP1 10.00	SNP2 50.00	NH 0.00	RO1 0.00	RO2 0.00	DT1 0.00	DT2 0.00

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

DEPTH	RT	PHIN	ROB	DT	VSH	ROMA	SW	SXO	POR	SPI	GR	PHIL	DD	SWP	SXP	ROMA	SH	P	CO	LI
1984.2	1.0	30.3	2.13	98	***	****	**		***											
					1	2.65	67	77	32.5		25	34.2	0.05	67	76	2.69	DS			MA
1983.3	0.9	32.3	2.11	100	0	2.65	68	75	34.5		22	35.7	0.00	68	75	2.70	DS			MA
1982.4	0.9	32.6	2.16	101	10	2.67	71	79	30.0		32	30.7	0.00	71	77	2.70	DS			MA
1981.5	0.8	32.5	2.08	102	0	2.65	69	97	35.6		30	37.6	0.10	69	89	2.68	DS			MA
1980.6	0.8	33.8	2.10	101	0	2.65	71	85	35.6		35	36.6	0.00	71	81	2.70	DS			MA
1979.7	0.6	32.0	2.09	102	1	2.65	86	86	34.6		22	37.0	0.05	82	51	2.67	DS			MA
1978.8	0.6	33.9	2.08	103	2	2.66	85	98	35.6		21	37.4	0.05	81	91	2.68	GR			MA
1977.8	0.8	40.3	2.13	106	11	2.68	67	94	34.1		26	34.1	0.10	67	87	2.79	GR	"		MA
1976.9	1.1	38.9	2.17	107	26	2.71	68	96	26.4		48	26.4	0.10	68	88	2.77	DS	"		MA
1976.0	0.6	30.5	2.15	98	4	2.66	93	99	31.2		24	32.4	0.10	86	96	2.68	DS			MA
1975.1	0.6	33.3	2.09	102	0	2.65	85	99	35.7		18	37.8	0.10	81	92	2.69	GR			MA
1974.2	1.1	33.3	2.06	104	0	2.65	57	57	36.7		20	39.2	0.10	57	45	2.69	DS			MA
1973.3	1.9	36.7	2.19	115	33	2.72	52	77	24.2		39	27.8	0.05	52	76	2.73	GR			MA
1972.4	1.7	41.5	2.20	120	33	2.73	53	71	25.8		40	31.0	-0.05	53	71	2.88	GR	*		MA
1971.4	2.2	45.8	2.15	125	38	2.74	47	96	24.2		42	32.4	0.00	47	89	2.97	GR	*		MA
1970.5	2.7	43.3	2.19	117	39	2.74	43	82	23.7		43	25.6	0.00	43	79	2.93	GR	*		MA
1969.6	5.4	31.5	2.17	94	0	2.65	29	56	31.9		31	31.9	-0.10	29	56	2.74	DS	"		MA
1968.7	13.0	30.8	2.13	97	0	2.65	18	43	33.4		25	34.0	0.05	18	43	2.71	DS			MA
1967.8	18.3	31.4	2.14	98	1	2.65	15	44	33.0		27	33.9	0.00	15	44	2.73	DS			MA
1966.9	4.1	41.1	2.19	113	34	2.73	34	67	25.5		40	26.0	0.00	34	67	2.86	GR	*		MA
1966.0	9.3	30.9	2.11	97	0	2.65	21	46	34.0		23	34.5	-0.05	21	46	2.70	DS			MA
1965.0	17.2	33.5	2.10	95	0	2.65	16	54	33.0		27	33.0	0.00	16	54	2.73	DS	"		MA

MODEL	DEPLO 1964.40	DEPUP 1963.40	RW 0.066	RMF 0.19	FL TEMP 135.00	BIT SIZE 8.50	SCDA 52.00
SHALE	RSH 2.00	DTSH 130.00	PHINSH 40.00	ROBSH 2.34	GR SD 20.00	GR SH 80.00	PHIMAX 39.00
X-PLUTS	ROB1N 2.60	ROB2N 0.90	DT1N 60.00	DT2N 60.00	DT1D 84.00	DT2D 48.00	
GAS	ROH 0.17	DTF 189.00		SSP 100.00	SP2 1.00	EXPWXD 0.20	EXPH1 -1.00
EXPO	CFP 0.80	EXPW 2.00	EXPXU 2.00	SRH FAC 0.65	EXPVSH 1.40	EXPA 0.10	EXPO 1.00
LOG1	LSP 2	LGR 3	LMLL 6	LPL 0	LSNP 0	LCNL 13	
LOG2	LFD 14	LSL 15	LDP 9	LDRU 21	LRT 22		
NOVSH-1	KSP 0.	KRT 0.		KXU 1.	KGR 0.		
NOVSH-2	KCDN 0.	KCSN 0.	KCDS 0.				
MISC-1	EXPAND 1.00	SMOOTH 5.00	SW EQ 0.00	LIST 3.00	EXC FAC 1.50	ROHRW 0.00	UNITS 1.00
MISC-2	RTLIM 10000.00	PHIMIN 0.00	RUMF 1.01	PPK 17.58	SP1 1.00	KSO 0.00	RP MIN 0.00
MISC-3		AFT. PLT 2.00	SIZE PLT 0.00	RUBCR 1.00	PHINCR 100.00	DTCR 0.00	KOBM 0.00
MISC-4	SXOI 0.00	ROMASH 2.85				DPMIN 0.00	DROMAX 0.10
MISC-5	ROB2 2.00	ROB3 3.00	ROMAX 1 3.00	SONLIM 1.00	DTMIN 50.00	COEDT 139.00	DDMAX 0.20
CORIBAND	DTD 43.50	DTS 55.50	ROMA1 2.65	ROMA2 2.65	KSPI 1.00	SED 0.00	
MANUAL	SNP1 10.00	SNP2 50.00	NH 0.00	RU1 0.00	RU2 0.00	DT1 0.00	DT2 0.00

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DEPTH	RT	PHIN	ROB	DT	VSH	ROMA	SW	SXO	POR	SPI	GR	PHIL	DD	SWP	SXP	ROMA	SH	P	CO	LI
1964.1	43.6	24.6	2.05	102	3	2.66	10	35	33.3		22	35.3	0.05	9	35	3.38	GR			MA

MODEL	DEPLO 1963.40	DEPUP 1956.00	RW 0.066	RMF 0.19	FL TEMP 135.00	BIT SIZE 8.50	SCDA 52.00
SHALE	RSH 2.00	DTSR 130.00	PHINSH 40.00	ROBSH 2.34	GR SD 20.00	GR SH 80.00	PHIMAX 39.00
X-PLOTS	ROB1N 2.60	ROB2N 0.90	DT1N 60.00	DT2N 60.00	DT1D 84.00	DT2D 48.00	
CAS	ROH 0.17	DTF 189.00		SSP 100.00	SP2 1.00	EXPWXD 0.20	EXPHI -1.00
EXPO	CFE 0.80	EXPW 2.00	EXPXD 2.00	SRH FAC 0.75	EXPVSH 1.40	EXPA 0.10	EXPO 1.00
LOG1	LSP 2	LGR 3	LMLL 6	LPL 0	LSNP 0	LCNL 13	
LOG2	LFD 14	LSL 15	LDP 9	LDRO 21	LRT 22		
NOVSH-1	KSP 0.	KRT 0.		KXO 1.	KGR 0.		
NOVSH-2	KCDN 0.	KCSN 0.	KCDS 0.				
MISC-1	EXPAND 1.00	SMOOTH 5.00	SW EQ 0.00	LIST 3.00	EXC FAC 1.50	ROHRW 0.00	UNITS 1.00
MISC-2	RTLIM 10000.00	PHIMIN 0.00	ROMF 1.01	PPK 17.58	SP1 1.00	KSO 0.00	RP MIN 0.00
MISC-3		AFT. PLT 2.00	SIZE PLT 0.00	ROBCR 1.00	PHINCR 100.00	DTCR 0.00	KOBM 0.00
MISC-4	SX01 0.00	ROMASH 2.85				DPMIN 0.00	DROMAX 0.10
MISC-5	ROB2 2.00	ROB3 3.00	ROMAX 1 3.00	SONLIM 1.00	DTMIN 50.00	COEDT 139.00	DDMAX 0.20
CURIBAND	DTD 43.50	DTS 55.50	ROMA1 2.65	ROMA2 2.65	KSP1 1.00	SED 0.00	
MANUAL	SNP1 10.00	SNP2 50.00	NH 0.00	RO1 0.00	RO2 0.00	DT1 0.00	DT2 0.00

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

DEPTH	RT	PHIN	ROB	DT	VSH ***	ROMA ****	SW **	SXO	POR ***	SPI	GR	PHIL	DD	SWP	SXP	ROMA	SH	P	CO	LI
1963.2	56.4	11.8	2.01	105	8	2.67	10	36	30.2		24	35.4	0.05	9	36	2.69	RT			MA
1962.3	40.9	10.3	1.97	101	0	2.65	11	39	33.1		24	36.2	0.05	10	39	2.68	DS			MA
1961.4	14.4	20.0	2.08	98	9	2.67	19	67	29.0		35	29.1	0.00	18	67	2.66	DS			MA
1960.5	44.0	11.5	2.03	101	8	2.67	11	51	29.0		28	31.9	0.00	10	51	2.62	DS			MA
1959.6	91.0	8.7	1.96	101	0	2.65	8	42	33.1		25	36.7	0.05	6	42	2.65	DS			MA
1958.6	43.9	12.3	2.02	104	9	2.67	11	49	29.5		29	33.6	0.05	10	49	2.63	RT			MA
1957.7	88.1	8.0	1.96	104	1	2.65	8	34	32.6		26	38.2	0.05	7	34	2.67	DN			MA
1956.8	62.1	6.8	1.92	105	0	2.65	9	29	34.3		25	39.9	0.05	8	29	2.68	DN			MA
1955.9	38.6	7.5	1.88	107	0	2.65	10	26	36.5		27	41.3	0.05	9	26	2.70	DN			MA

MODEL	DEPLO 1956.00	DEPUP 1955.30	RW 0.066	RMF 0.19	FL TEMP 135.00	BIT SIZE 8.50	SCDA 52.00
SHALE	RSH 2.00	DTSH 130.00	PHINSH 40.00	ROBSH 2.34	GR SD 20.00	GR SH 80.00	PHIMAX 39.00
X-PLOTS	ROB1N 2.60	RUB2N 0.90	DT1N 60.00	DT2N 60.00	DT1D 84.00	DT2D 48.00	
GAS	ROH 0.17	DTF 189.00		SSP 100.00	SP2 1.00	EXPWXO 0.20	EXPHI -1.00
EXPO	CFE 0.80	EXPW 2.00	EXPXO 2.00	SRH FAC 0.60	EXPVSH 1.40	EXPA 0.10	EXPO 1.00
LOG1	LSP 2	LGR 3	LMLL 6	LPL 0	LSNP 0	LCNL 13	
LOG2	LFD 14	LSL 15	LDP 9	LDRO 21	LRT 22		
NOVSH-1	KSP 0.	KRT 0.		KXO 1.	KGR 0.		
NOVSH-2	KCDN 0.	KCSN 0.	KCDS 0.				
MISC-1	EXPAND 1.00	SMOOTH 5.00	SW EQ 0.00	LIST 3.00	EXC FAC 1.50	ROHRW 0.00	UNITS 1.00
MISC-2	RTLIM 10000.00	PHIMIN 0.00	ROMF 1.01	PPK 17.58	SP1 1.00	KSO 0.00	RP MIN 0.00
MISC-3		AFT. PLT 2.00	SIZE PLT 0.00	ROBCR 1.00	PHINCR 100.00	DTCR 0.00	KOBM 0.00
MISC-4	SX01 0.00	RUMASH 2.85				DPMIN 0.00	DROMAX 0.10
MISC-5	ROB2 2.00	ROB3 3.00	RUMAX 1 3.00	SONLIM 1.00	DTMIN 50.00	COEDT 139.00	DDMAX 0.20
CORIBAND	DTD 43.50	DTS 55.50	ROMA1 2.65	ROMA2 2.65	KSP1 1.00	SED 0.00	
MANUAL	SNP1 10.00	SNP2 50.00	NH 0.00	RO1 0.00	RO2 0.00	DT1 0.00	DT2 0.00

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

MODEL	DEPLO 1955.30	DEPUP 1949.20	RW 0.066	RMF 0.19	FL TEMP 135.00	BIT SIZE 8.50	SCDA 52.00
SHALE	RSH 2.00	DTSH 130.00	PHINSH 40.00	ROBSH 2.34	GR SD 20.00	GR SH 80.00	PHIMAX 39.00
X-PLOTS	ROB1N 2.60	ROB2N 0.90	DT1N 60.00	DT2N 60.00	DT1D 84.00	DT2D 48.00	
CAS	ROH 0.17	DTF 189.00		SSP 100.00	SP2 1.00	EXPWXO 0.20	EXPHI -1.00
EXPO	CFE 0.80	EXPW 2.00	EXPXD 2.00	SRH FAC 0.75	EXPVSH 1.40	EXPA 0.10	EXPO 1.00
LOG1	LSP 2	LGR 3	LMLL 6	LPL 0	LSNP 0	LCNL 13	
LOG2	LFD 14	LSL 15	LDP 9	LDRO 21	LRT 22		
NOVSH-1	KSP 0.	KRT 0.		KXO 1.	KGR 0.		
NOVSH-2	KCDN 0.	KCSN 0.	KCDS 0.				
MISC-1	EXPAND 1.00	SMOOTH 5.00	SW EQ 0.00	LIST 3.00	EXC FAC 1.50	ROHRW 0.00	UNITS 1.00
MISC-2	RTLIM 10000.00	PHIMIN 0.00	ROMF 1.01	PPK 17.58	SP1 1.00	KSD 0.00	RP MIN 0.00
MISC-3		AFT. PLT 2.00	SIZE PLT 0.00	ROBCR 1.00	PHINCR 100.00	DTCR 0.00	KOBM 0.00
MISC-4	SXOI 0.00	ROMASH 2.85				DPMIN 0.00	DROMAX 0.10
MISC-5	ROB2 2.00	ROB3 3.00	ROMAX 1 3.00	SONLIM 1.00	DTMIN 50.00	COEDT 139.00	DDMAX 0.20
CORIBAND	DTD 43.50	DTS 55.50	ROMA1 2.65	ROMA2 2.65	KSPI 1.00	SED 0.00	
MANUAL	SNP1 10.00	SNP2 50.00	NH 0.00	RO1 0.00	RO2 0.00	DT1 0.00	DT2 0.00

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

DEPTH	RT	PHIN	ROB	DT	VSH ***	ROMA ****	SW **	SXO	POR ***	SPI	GR	PHIL	DD	SWP	SXP	ROMA	SH	P	CO	LI
1955.0	47.5	11.0	1.97	108	8	2.67	10	47	31.3	28	37.1	0.10	9	47	2.62	RT				MA
1954.1	108.3	8.1	1.95	104	1	2.65	8	35	33.0	24	38.6	0.10	6	35	2.67	DN				MA
1953.2	108.2	7.9	1.94	106	0	2.65	8	42	33.7	25	40.2	0.10	6	42	2.63	DN				MA
1952.2	149.1	9.0	1.95	101	0	2.65	7	37	33.8	24	37.1	0.05	5	37	2.67	DS				MA
1951.3	323.4	7.1	1.97	100	0	2.65	6	40	32.2	23	36.2	0.05	3	40	2.65	DN				MA
1950.4	291.9	4.6	1.94	100	0	2.65	6	33	33.0	22	36.7	0.05	3	33	2.64	DN				MA
1949.5	86.7	41.6	2.11	132	6	2.66	8	30	34.9	38	55.6	0.00	6	30	3.81	RT				MA

MODEL	DEPLO 1949.20	DEPUP 1934.00	RW 0.066	RMF 0.19	FL TEMP 135.00	BIT SIZE 8.50	SCDA 52.00
SHALE	RSH 2.00	DTSH 130.00	PHINSH 40.00	ROBSH 2.34	GR SD 20.00	GR SH 80.00	PHIMAX 18.00
X-PLOTS	ROB1N 2.60	ROB2N 0.90	DT1N 60.00	DT2N 60.00	DT1D 84.00	DT2D 48.00	
GAS	ROH 0.17	DTF 189.00		SSP 100.00	SP2 1.00	EXPWXO 0.20	EXPHI -1.00
EXPO	CFE 0.80	EXPW 2.00	EXPXO 2.00	SRH FAC 0.75	EXPVSH 1.40	EXPA 0.10	EXPO 1.00
LOG1	LSP 2	LGR 3	LMLL 6	LPL 0	LSNP 0	LCNL 13	
LOG2	LFD 14	LSL 15	LDP 9	LDRO 21	LRT 22		
NOVSH-1	KSP 0.	KRT 0.		KXO 1.	KGR 0.		
NOVSH-2	KCDN 0.	KCSN 0.	KCDS 0.				
MISC-1	EXPAND 1.00	SMOOTH 5.00	SW EQ 0.00	LIST 3.00	EXC FAC 1.50	ROHRW 0.00	UNITS 1.00
MISC-2	RTLIM 10000.00	PHIMIN 0.00	ROMF 1.01	PPK 17.58	SP1 1.00	KSO 0.00	RP MIN 0.00
MISC-3		AFT. PLT 2.00	SIZE PLT 0.00	ROBCR 1.00	PHINCR 100.00	DTCR 0.00	KOBM 0.00
MISC-4	SXUI 0.00	ROMASH 2.85				DPMIN 0.00	DROMAX 0.10
MISC-5	ROB2 2.00	ROB3 3.00	ROMAX 1 3.00	SONLIM 1.00	DTMIN 50.00	COEDT 139.00	DDMAX 0.20
CORIBAND	DTD 43.50	DTS 55.50	ROMA1 2.65	ROMA2 2.65	KSPI 1.00	SED 0.00	
MANUAL	SNP1 10.00	SNP2 50.00	NH 0.00	RO1 0.00	RO2 0.00	DT1 0.00	DT2 0.00

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

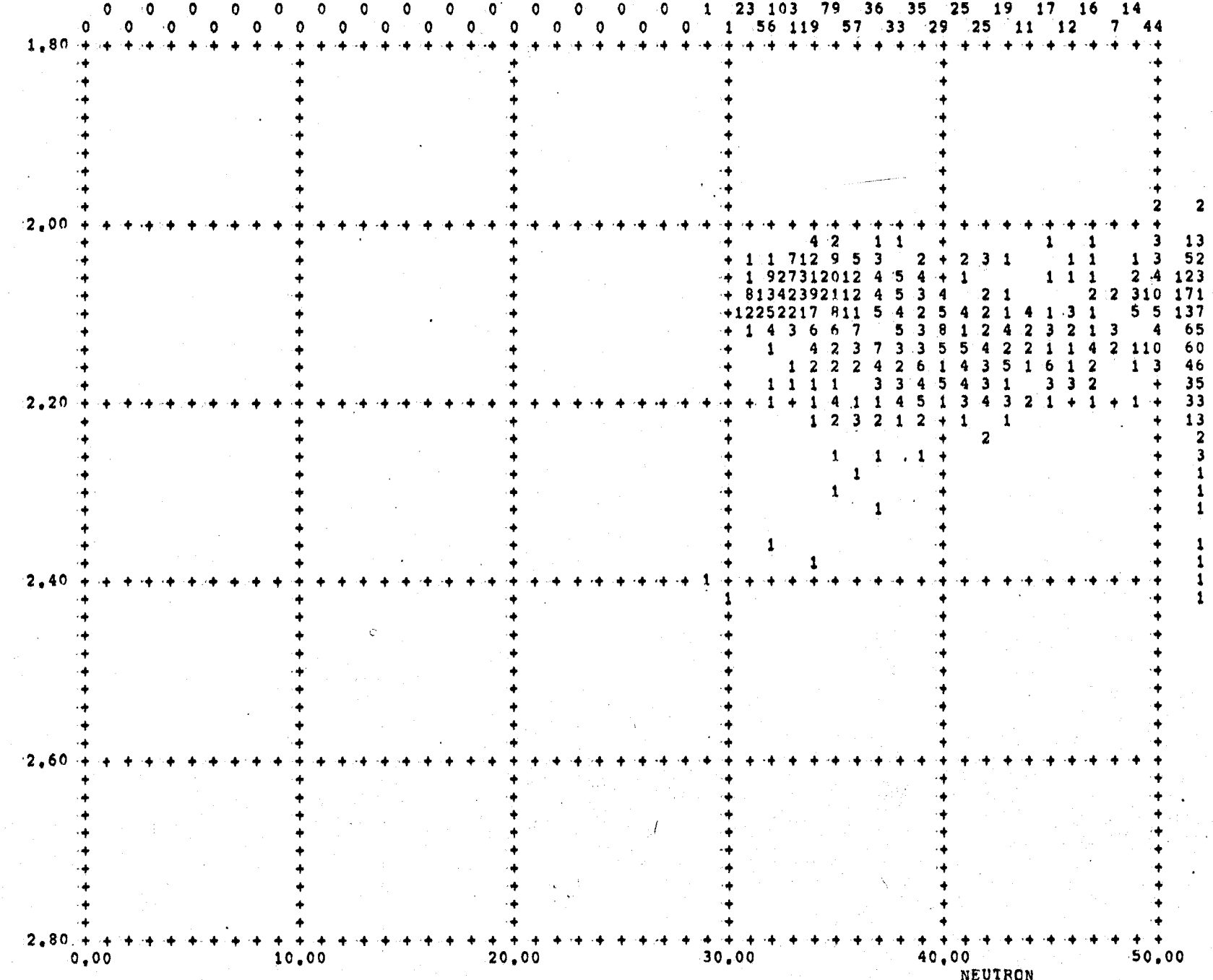
DEPTH	RT	PHIN	ROB	DT	VSH ***	ROMA ****	SW **	SXD	POR ***	SPI	GR	PHIL	DD	SWP	SXP	ROMA	SH	P	CO	LI
1948.6	0.9	53.9	2.17	152	36	2.73	100	100	11.5		41	52.8	0.05	134	180	3.41	GR	*		MA
1947.7	0.8	48.8	2.15	139	41	2.75	100	100	10.6		44	40.9	-0.05	144	182	3.27	GR	*		MA
1946.8	0.7	55.9	1.99	160	62	2.81	100	100	6.7		57	43.6	0.00	156	186	3.31	GR	*		MA
1945.8	0.6	61.4	1.99	174	85	2.85	100	100	2.6		71	40.2	0.00	183	182	3.53	GR	*		MA
1944.9	0.6	60.1	2.04	158	88	2.85	100	100	2.1		72	27.5	-0.60	185	175	3.53	GR	*		MA
1944.0	0.7	55.9	2.03	150	81	2.84	100	100	3.3		68	25.4	-0.05	171	180	3.40	GR	*		MA
1943.1	0.7	52.6	2.05	147	65	2.81	100	100	6.2		59	31.9	0.95	155	158	3.30	GR	*		MA
1942.2	0.7	55.5	2.06	144	57	2.80	100	100	7.6		54	35.1	0.60	156	179	3.32	GR	*		MA
1941.3	0.8	54.3	2.08	144	78	2.83	100	100	3.9		66	22.6	0.95	163	167	3.35	GR	*		MA
1940.4	0.8	52.6	2.08	141	88	2.85	100	100	2.0		73	14.5	1.10	166	157	3.38	GR	*		MA
1939.4	0.8	53.8	2.12	144	88	2.85	100	100	2.0		73	16.9	1.35	163	156	3.40	GR	*		MA
1938.5	0.8	52.5	2.15	135	94	2.85	100	100	1.0		76	6.8	1.60	162	154	3.42	GR	*		MA
1937.6	0.8	51.2	2.15	135	99	2.85	100	100	0.0		107	4.4	1.75	100	100	2.85	SP			SH
1936.7	0.9	51.9	2.14	135	99	2.85	100	100	0.0		100	4.7	0.95	100	100	2.85	SP			SH
1935.8	0.9	53.9	2.10	140	82	2.84	100	100	3.1		69	17.6	1.15	151	153	3.37	GR	*		MA
1934.9	0.8	54.1	2.11	140	51	2.78	100	100	8.7		50	35.8	1.35	141	171	3.36	GR	*		MA
1934.0	0.8	51.9	2.04	141	45	2.77	100	100	9.9		47	40.1	0.80	145	176	3.31	GR	*		MA

DENSITY

FREQUENCY PLOT

INTERVAL * 2122.9- 2007.0
NR. OF POINTS * 762

WELL == 25/2-2
CUTOFF:



DENSITY

FREQUENCY PLOT

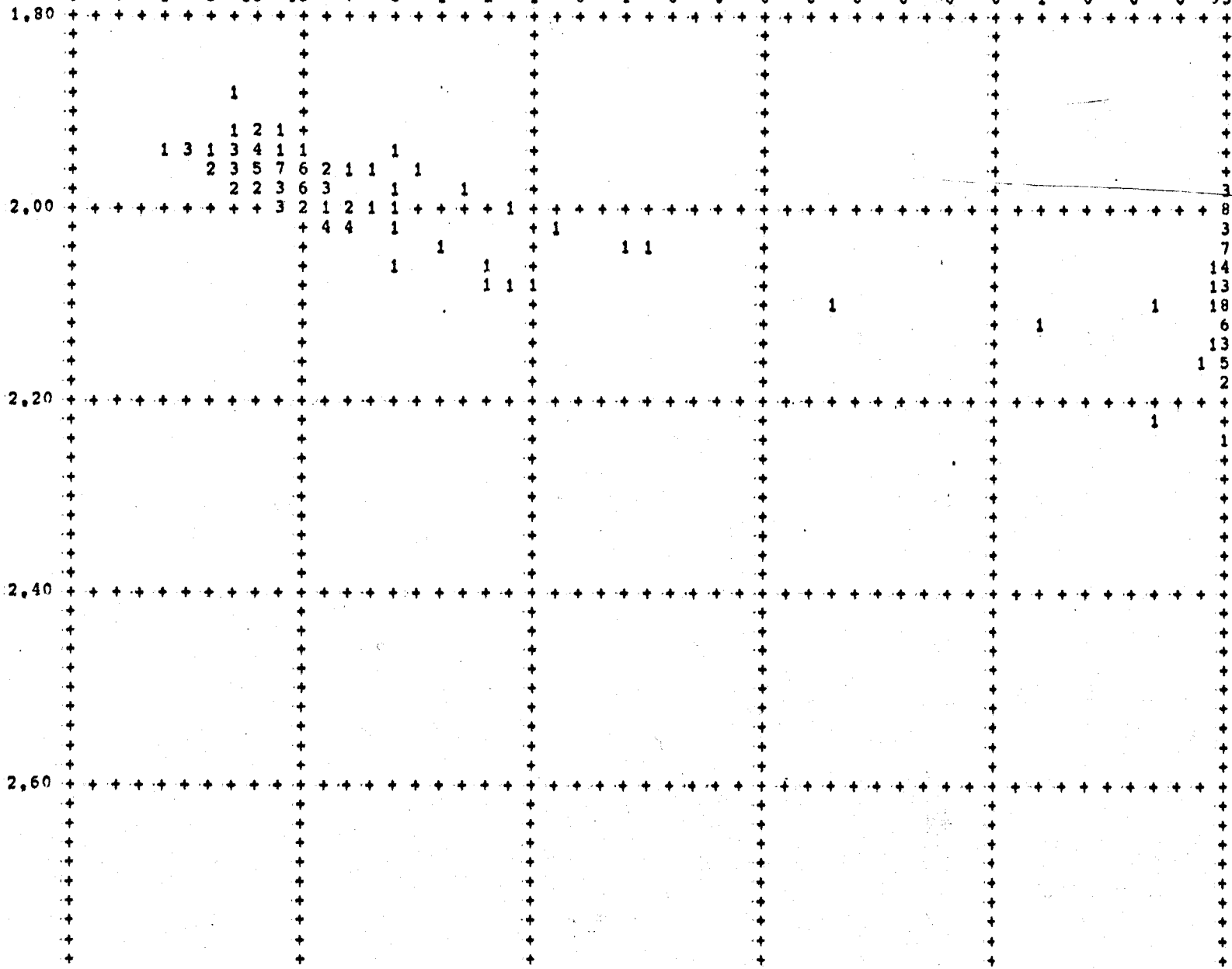
INTERVAL = 1964.2- 1935.0

WELL == 25/2-2

NR. OF POINTS = 193

CUTOFF :

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0.00 10.00 20.00 30.00 40.00 50.00

NEUTRON

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DENSITY

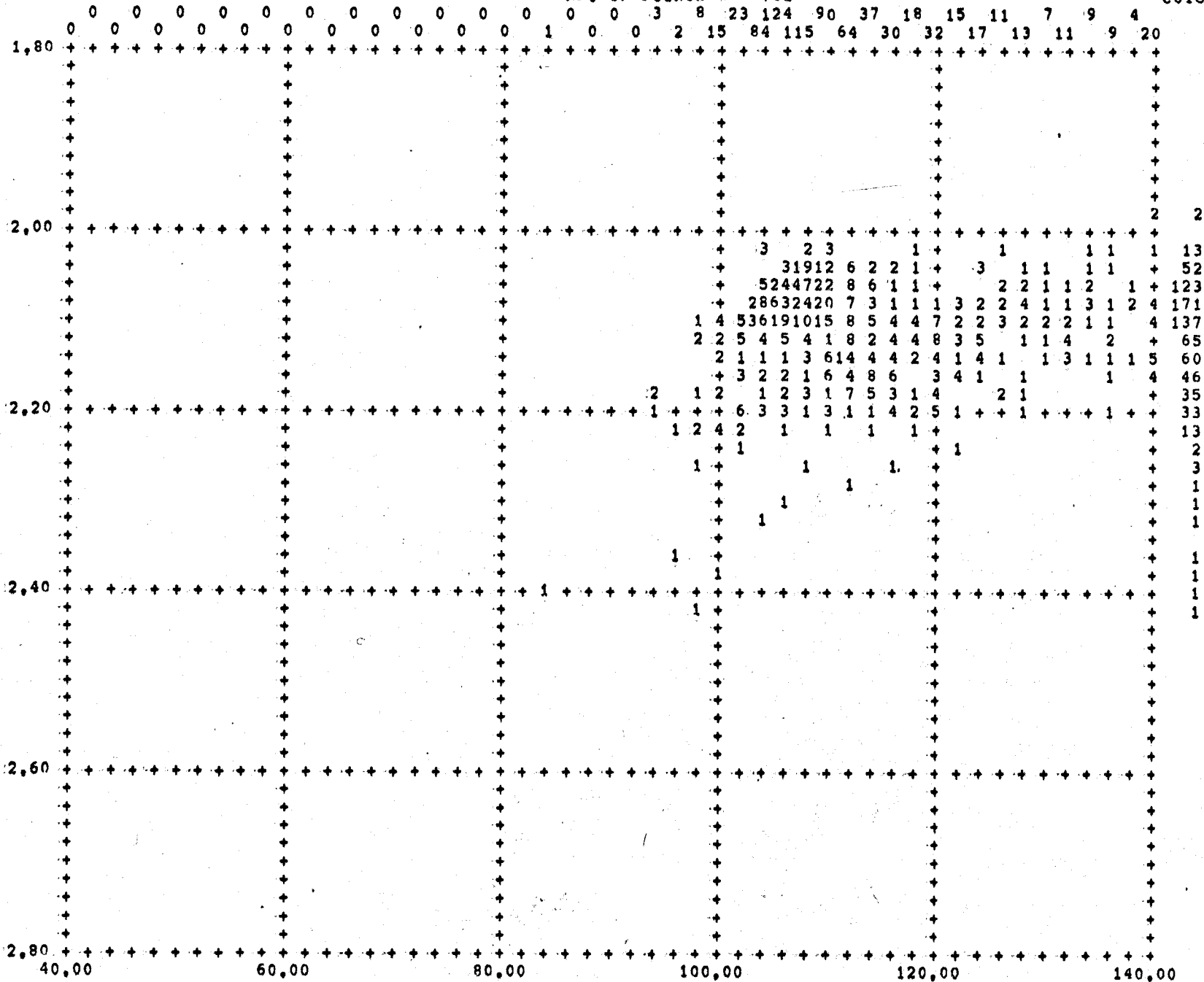
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INTERVAL: 2122.9- 2007.0

WELL -- 25/2-2

NR. OF POINTS: 762

CUTOFF:



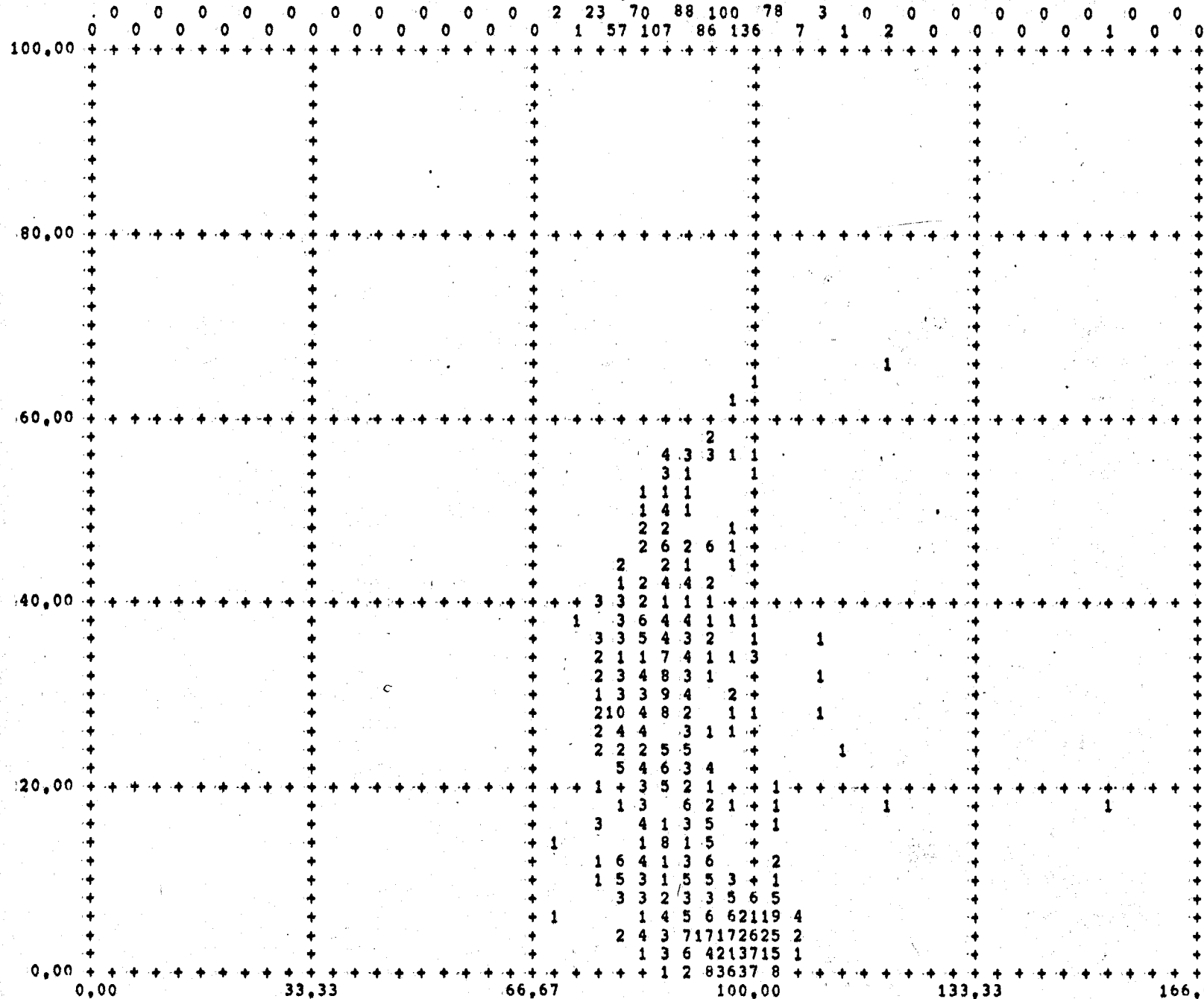
SONIC

V CLAY

FREQUENCY PLOT

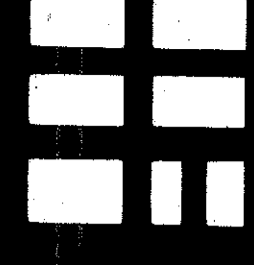
INTERVAL := 2122.9- 2007.0
NR. OF POINTS := 762

WELL == 25/2-2
CUTOFF:



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22
20
22
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67
103
88
92

WATERSAT



Computer Processed Interpretation

Using the following log:

IES, DLI, ML, BHC, FDC, CNL, GRL

COMPANY: ELF NORGE A.S.

WELL: 25/2-2

FIELD: FRIGG

COUNTRY: NORWAY-OFFSHORE

REFERENCE N°: 113,12367

DATE LOGGED: JUNE 28, 1975

LOCATION: N 59° 53' 34.8"

ELEV: 02° 20' 15.0"

DF: KB 25.3 M

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

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

Computation Center : CLIC/Clamart Programs used : PRE 016 COR 007 Analyst : FELDBACHER & DADRAN

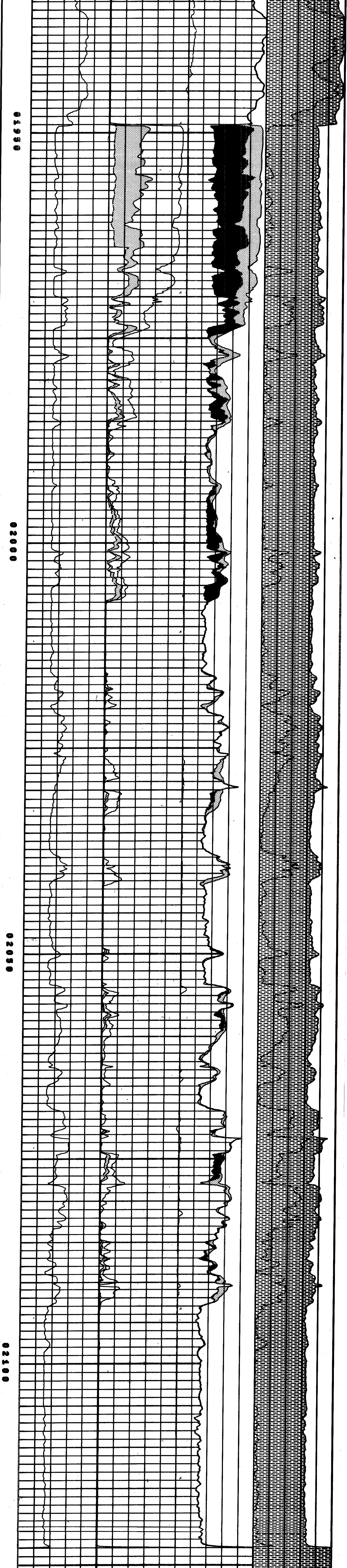
PARAMETERS

Depth Interval	Rw	Rmf	Rcl	Δtcl	Ø Ncl	ρbcI	ρh	T _F	
From	To							F	
2123.0	2054.0	.080	.179	2.0	130	40	2.34	.70	143
2054.0	1985.0	.076	.184	2.0	130	40	2.34	.70	138
1985.0	1964.0	.066	.185	2.0	130	40	2.34	.70	137
1964.0	1934.0	.066	.186	2.0	130	40	2.34	.17	135

Remarks

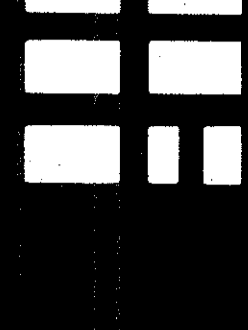
DEPTH	FORMATION CHARACTERISTICS	HYDROCARBON ANALYSIS	POROSITY AND FLUIDS ANALYSIS BY VOLUME	FORMATION ANALYSIS BY VOLUME
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M		Water Saturation 100 %	Residual Hydrocarbon 0 50 %	Water 0 100 %
	Average Grain Density 2.5 gm/cc 3.0			Clay Matrix Porosity % 0
			DIFFERENTIAL CALIPER -4 0 12 inches (Caliper - Bit Size)	
		Hydrocarbon Volume 0 φ _{Shr} .50		
		Hydrocarbon Weight 0 φ _{Shr} .ρh .50		



01950 02000 02050 02100

Schlumberger Synergetic Log Systems



Computer Processed Interpretation

Using the following logs:

IES, DLI, MLI, BHC, FDC, CNL, GRL

COMPANY ELF NORGE A.S.

WELL 25/2-2

FIELD FRIGG

COUNTRY NORWAY-OFFSHORE

REFERENCE No 113, 12367 PROCESSING No 3

DATE LOGGED JUNE 28, 1975 DATE PROCESSED AUG 12, 1976

LOCATION N 59° 53' 34.8" E 02° 20' 15.0"

ELEV KB 25.3 M DF GL -104.0 M

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

Computation Center : CLIC/Clamart Programs used : PRE O16 COR 007 Analyst : FELDBACHER & DADRIAN

PARAMETERS

Depth Interval	Rw	Rmf	Rcl	Δtcl	Ø Ncl	ρbcl	ρh	T° F
2123.0 - 2054.0	.080	.179	2.0	130	40	2.34	.70	143
2054.0 - 1985.0	.076	.184	2.0	130	40	2.34	.70	138
1985.0 - 1964.0	.066	.185	2.0	130	40	2.34	.70	137
1964.0 - 1934.0	.066	.186	2.0	130	40	2.34	.17	135

Remarks

