

API NUMBER : 820309006000
OPERATOR : PHILLIPS PETROLEUM CO.
LEASE : 7/11
WELL : 2X
FIELD : COD
COUNTY : OFFSHORE
STATE : NORTH SEA
COUNTRY : NORWAY
LATITUDE : 02*26'24
LONGITUDE : 54*24'26.5
WELL ELEVATION : 87.00K
DATE ENTERED : 4/ 5/79
DATE LOGGED : 10/04/68

COMPLEX LITHOLOGY ANALYSIS WELL 7/11-2X COD.

THIS ANALYSIS WAS MADE USING THE PHILLIPS COMPLEX LITHOLOGY ANALYSIS COMPUTER PROGRAMS. POROSITY IS DETERMINED FROM AN ITERATIVE SIMULTANEOUS SOLUTION TO THE NEUTRON AND DENSITY RESPONSE EQUATIONS WITH CORRECTION FOR CLAY AND HYDROCARBON EFFECT. WATER SATURATION IS COMPUTED USING A MODIFIED VERSION OF THE INDONESIAN WATER SATURATION EQUATION WHICH TAKES INTO ACCOUNT THE EFFECT OF CLAY ON THE RESISTIVITY MEASUREMENTS. AN APPARENT MATRIX DENSITY IS CALCULATED FOR THE NON-SHALE FRACTION OF THE FORMATION.

A LISTING OF THE KEY PARAMETERS USED FOLLOWS ON THE NEXT PAGE.

RW IS TAKEN AS FIELD STANDARD. CEMENTATION WAS SET TO 1.0.

COMPLEX LITHOLOGY ANALYSIS.
LISTING OF KEY PARAMETERS.

ZONE NUMBER	1	2
ZONE DESCRIPTION		
ZONE TOP	9700.000	10564.000
ZONE BASE	10564.000	10000.000
TOTAL DEPTH	11445.000	11445.000
S.H.T. DEG.F	250.000	250.000
GR. CLEAN API	40.000	40.000
GR. SHALE API	108.000	108.000
RHO-SHALE	2.420	2.420
NEUTRON SHALE	.000	.000
DENSITY 0% NEUTRON	.000	.000
DENSITY 20% NEUTRON	.000	.000
RHO MATRIX	2.650	2.710
DELTA T MATRIX	51.200	51.200
POROSITY SHALE	22.000	22.000
DELTA T SHALE	105.000	105.000
RMF	.060	.060
TRMF DEG. F	62.000	62.000
RW	.060	.048
TRW DEG. F	245.000	245.000
RES-SHALE	.900	.900
A	.000	.000
M	1.000	1.000
N	2.000	2.000
RHO FLUID	1.050	1.050
RHO HYDROCARBON	.300	.300

SHALE VOLUME CALCULATION DATE: 9:04 AM WED., 4 JULY, 1979 API NUMBER: 820309006000
OPERATOR: PHILLIPS PETROLEUM CO. LEASE AND TRACT: 7/11 WELL #: 2X
FIELD: COD COUNTY: OFFSHORE STATE: NORTH SEA COUNTRY: NORWAY
LATITUDE: 02*26'24 LONGITUDE: 54*24'26.5 ELEVATION: 87.00 TYPE: K
DATE LOGGED MDDYY: 10/04/68

TOP OF ZONE = 9700.00
BASE OF ZONE = 10000.00
VSH FROM THE GR LOG

GR READING FROM A CLEAN SAND ZONE = 40.00
GR READING FROM A SHALE ZONE = 100.00
CHANNELS USED AS INPUT : 30
VSH FROM THE NEUTRON AND DENSITY LOGS

READINGS FROM A SHALE ZONE : NEUTRON (%) = 23.00 DENSITY (GM/CC) = 2.42
CLEAN SAND ZONE : DENSITY AT 0% POROSITY = 2.65 DENSITY AT 20% POROSITY = 2.36

DENSITY CORRECTION (DELTA RHO) CUTOFF WAS NOT USED

CALIPER CUTOFF WAS NOT USED

CHANNELS USED AS INPUT : 23 24
VSHL SELECTION - CHANNEL NO 51

THE FOLLOWING ARE THE CHANNELS USED TO SELECT VSHL :

CHANNEL NO	NUMBER OF POINTS	PERCENTAGE
43	1101	100.00

TOOLS TO BE USED

ALCULATIONS WANTED

DENSITY?	NEUTRON?	SONIC?	SW?	SX0?	POR 2?	HYDROCARBON CORRECTION?	SPECIAL LITHOLOGY TESTS?
Y	Y	N	Y	Y	N	Y	N

INPUT CHANNELS

DENSITY	DEN.COR.	NEUTRON	SONIC	VSH	CALIPER	RT	RXD	TVD
23	12	24	2	51	11	32	0	1

DENSITY LOG DATA

MOST LIKELY LITH. DENSITY	MUD FILTRATE DENSITY	SHALE DENSITY	MAX. DENSITY CORRECTION	MAX. CALIPER	MIN. DENSITY	DENSITY LOG MULTIPLIER	CALIBRATION ADD FACTOR
2.710	1.050	2.420	.100	20.000	.000	1.000	.000

NEUTRON LOG DATA

TOOL TYPE SNP/CNL	SHALE POROSITY	EXCAVATION EFFECT	MOST LIKELY LITHOLOGY	MUD FILTRATE RES. RMF	RES. TRMF, F	NEUTRON POROSITY MINIMUM	MAXIMUM	MAX. CALIPER	NEUTRON LOG MULTIPLIER	CALIBRATION ADD FACTOR
SNP	22.000	1.100	1-LIMESTONE	.050	62.00	-7.000	50.000	20.000	1.000	2.000

SONIC LOG DATA

MOST LIKELY LITH. DELTA T	FLUID DELTA T	SHALE DELTA T	COMPACTION FACTOR	SONIC LOG MULTIPLIER	CALIBRATION ADD FACTOR
51.200	100.000	105.000	1.000	1.000	.000

SATURATION DATA

SHALE RESISTIVITY	SATURATION EXPONENT	FORMATION FACTOR CONSTANT	FORMATION FACTOR EXPONENT M	A	B	WATER RESISTIVITY RW OHM-M	T RW, F	SX0 EXPONENT
.900	2.000	1.000	1.000	.000	.000	.048	245.00	.200

GENERAL DATA

TOP	BASE	TOTAL DEPTH (TVD)	BOTTOM HOLE TEMP (F)	SURFACE TEMP (F)	POROSITY LIMIT MAX POR. %	VSH(VD) %	HYDROCARBON DENSITY
10564.0	10000.0	11445.0	250.00	70.00	25.00	30.00	.300

OUTPUT CHANNELS

POR E	POR 2	SW	SX0	DEN(MA)	VM1 SANDSTONE	VM2 LIMESTONE	VM3 DOLOMITE	VM4 ANHYDRITE	BWJ	BVSX0
55	64	60	61	62	56	57	58	59	40	41

***** INPUT CHANNEL STATUS REPORT *****

USAGE	CHANNEL	STATUS
DENSITY	23	ASSIGNED.
DEN. COR.	12	ASSIGNED.
NEUTRON	24	ASSIGNED.
SONIC	2	ASSIGNED.
VSH	51	ASSIGNED.
CALIPER	11	ASSIGNED.
RT	32	ASSIGNED.
RXD	0	NOT ASSIGNED.
TVD	1	ASSIGNED.

***** OUTPUT CHANNEL STATUS REPORT *****

USAGE	CHANNEL	STATUS
POR E	55	PREVIOUSLY ASSIGNED - OVERSTORED
POR 2	64	NOT USED
SW	60	PREVIOUSLY ASSIGNED - OVERSTORED
SXD	61	PREVIOUSLY ASSIGNED - OVERSTORED
DEN(MA)	62	PREVIOUSLY ASSIGNED - OVERSTORED
VM1	56	PREVIOUSLY ASSIGNED - OVERSTORED
VM2	57	PREVIOUSLY ASSIGNED - OVERSTORED
VM3	58	PREVIOUSLY ASSIGNED - OVERSTORED
VM4	59	PREVIOUSLY ASSIGNED - OVERSTORED
BYW	40	PREVIOUSLY ASSIGNED - OVERSTORED
BVSXD	41	PREVIOUSLY ASSIGNED - OVERSTORED

TOOLS TO BE USED

DENSITY? NEUTRON? SONIC?
Y Y N

CALCULATIONS WANTED

SW? SX? POR 2?
Y Y N

HYDROCARBON
CORRECTION?
Y

SPECIAL LITHOLOGY
TESTS?
N

INPUT CHANNELS

DENSITY DEN. COR. NEUTRON SONIC VSH CALIPER RT RXD TVD
23 12 24 2 51 11 32 0 1

DENSITY LOG DATA

MOST LIKELY LITH. DENSITY MUD FILTRATE DENSITY SHALE DENSITY MAX. DENSITY CORRECTION MAX. CALIPER MIN. DENSITY DENSITY LOG CALIBRATION MULTIPLIER ADD FACTOR
2.650 1.050 2.420 .100 20.000 .000 1.000 .000

NEUTRON LOG DATA

TOOL TYPE SHALE POROSITY EXCAVATION EFFECT MOST LIKELY LITHOLOGY MUD FILTRATE RES. RMF TRMF, F NEUTRON POROSITY MINIMUM MAXIMUM MAX. CALIPER NEUTRON LOG CALIBRATION MULTIPLIER ADD FACTOR
SNP 22.000 1.100 2-SANDSTONE .060 62.00 -7.000 50.000 20.000 1.000 2.000

SONIC LOG DATA

MOST LIKELY LITH. DELTA T FLUID DELTA T SHALE DELTA T COMPACTION FACTOR SONIC LOG CALIBRATION MULTIPLIER ADD FACTOR
51.200 108.000 105.000 1.000 1.000 .000

SATURATION DATA

SHALE RESISTIVITY SATURATION EXPONENT FORMATION FACTOR CONSTANT FORMATION FACTOR EXPONENT M A B WATER RESISTIVITY RW OHM-M T RW, F SXO EXPONENT
.900 2.000 1.000 1.000 .000 .000 .060 245.00 .200

GENERAL DATA

TOP BASE TOTAL DEPTH (TVD) BOTTOM HOLE TEMP (F) SURFACE TEMP (F) POROSITY LIMIT MAX POR. % VSH (VD) % HYDROCARBON DENSITY
9700.0 10564.0 11445.0 250.00 70.00 25.00 30.00 .300

OUTPUT CHANNELS

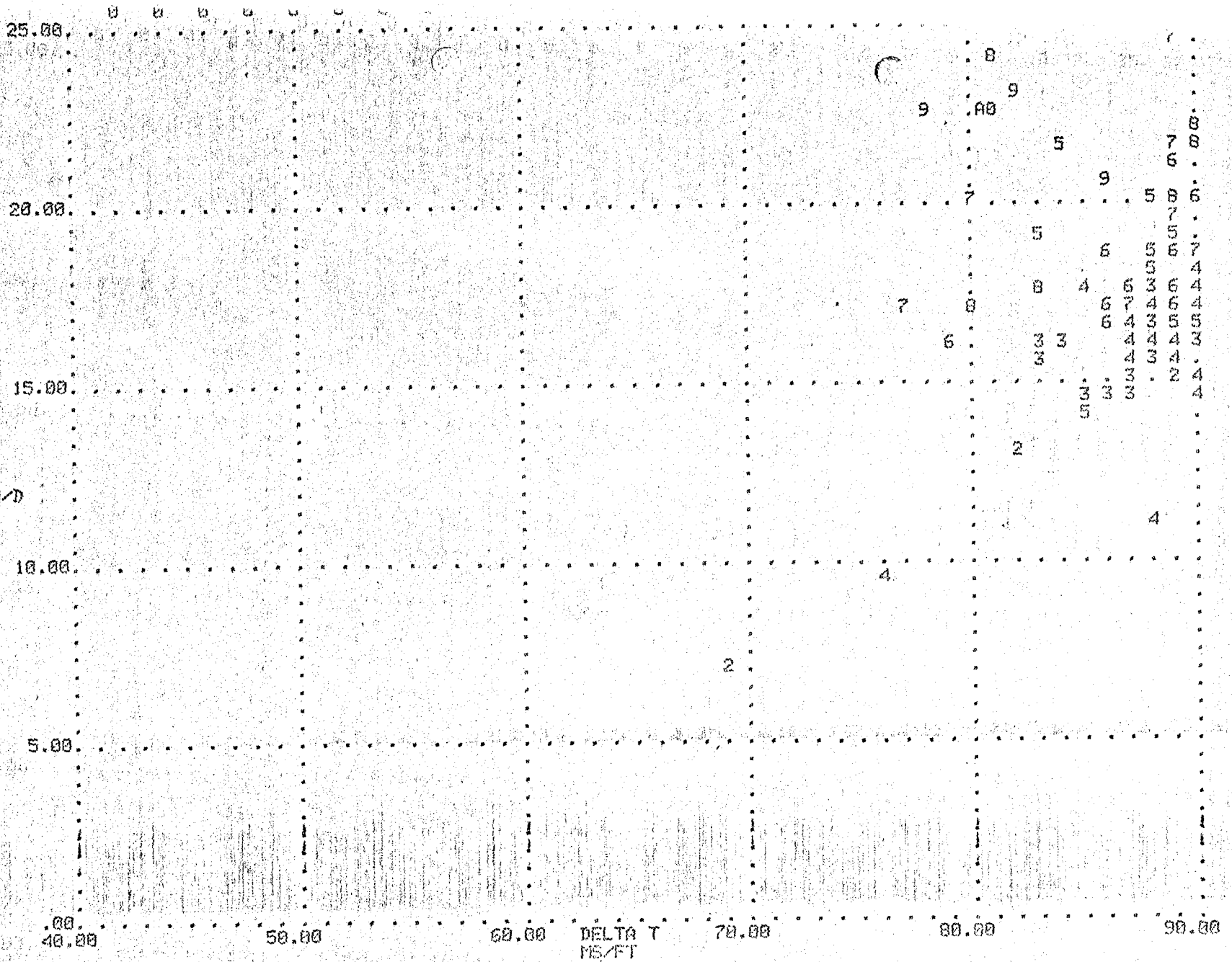
POR E POR 2 SW SXO DEN (MA) VM1 SANDSTONE VM2 LIMESTONE VM3 DOLOMITE VM4 ANHYDRITE DWJ BVSXO
55 54 60 61 62 56 57 58 59 40 41

***** INPUT CHANNEL STATUS REPORT *****

USAGE	CHANNEL	STATUS
DENSITY	23	ASSIGNED.
DEN. COR.	12	ASSIGNED.
NEUTRON	24	ASSIGNED.
SONIC	2	ASSIGNED.
VSH	51	ASSIGNED.
CALIPER	11	ASSIGNED.
RT	32	ASSIGNED.
RXD	0	NOT ASSIGNED.
TVD	1	ASSIGNED.

***** OUTPUT CHANNEL STATUS REPORT *****

USAGE	CHANNEL	STATUS
POR E	55	PREVIOUSLY ASSIGNED - OVERSTORED
POR 2	64	NOT USED
SW	60	PREVIOUSLY ASSIGNED - OVERSTORED
SXD	61	PREVIOUSLY ASSIGNED - OVERSTORED
DEN(MA)	62	PREVIOUSLY ASSIGNED - OVERSTORED
VM1	56	PREVIOUSLY ASSIGNED - OVERSTORED
VM2	57	PREVIOUSLY ASSIGNED - OVERSTORED
VM3	58	PREVIOUSLY ASSIGNED - OVERSTORED
VM4	59	PREVIOUSLY ASSIGNED - OVERSTORED
BVW	40	PREVIOUSLY ASSIGNED - OVERSTORED
BVSXD	41	PREVIOUSLY ASSIGNED - OVERSTORED



FOR N/D
X 11.0

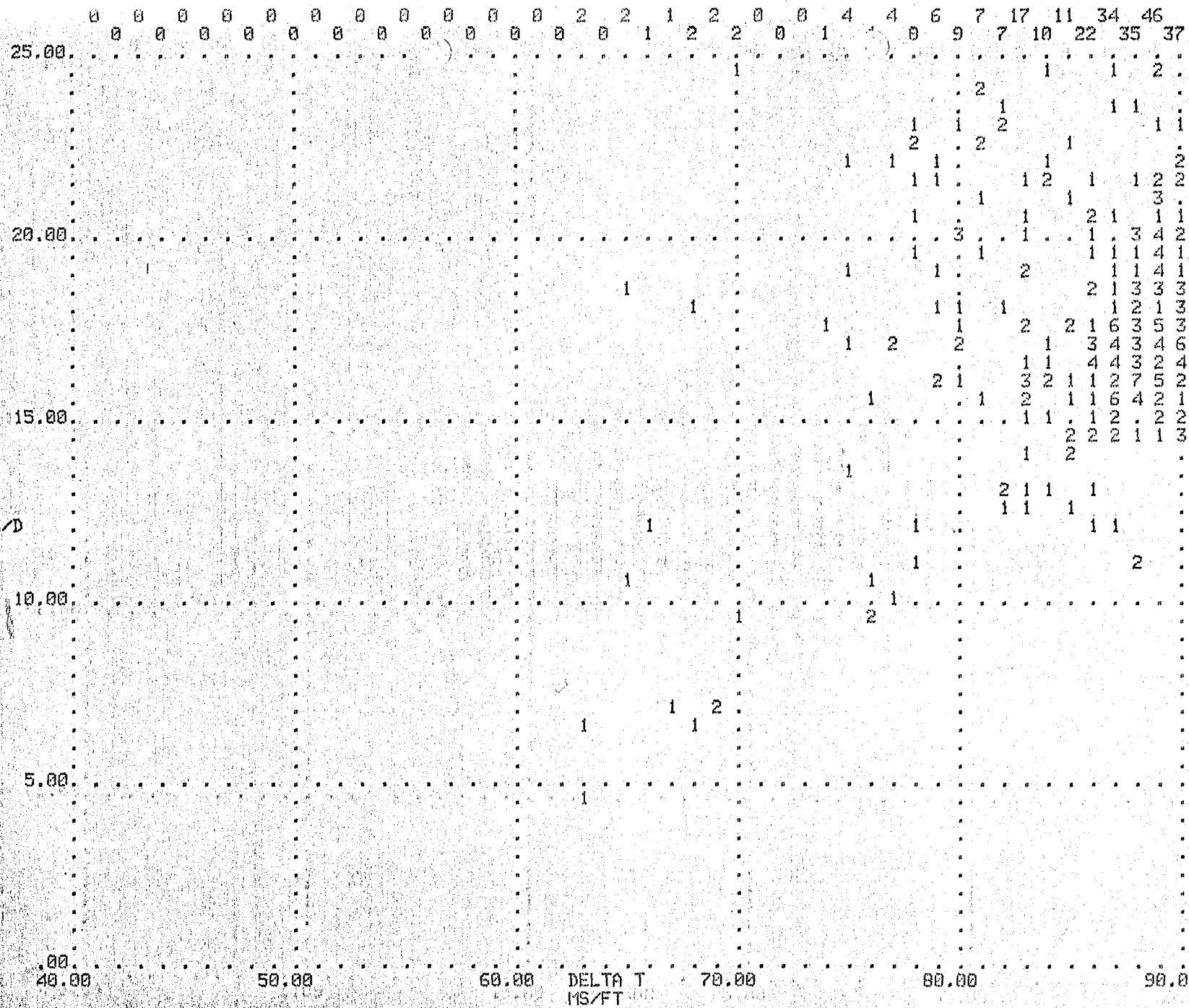
DEPTH: 9700.0 TO 10564.0 IN 1 ZONES
 OPERATOR: PHILLIPS PETROLEUM CO. LEASE AND TRACT: 7/11

DROPS = 1

274 POINTS USED IN PLOT

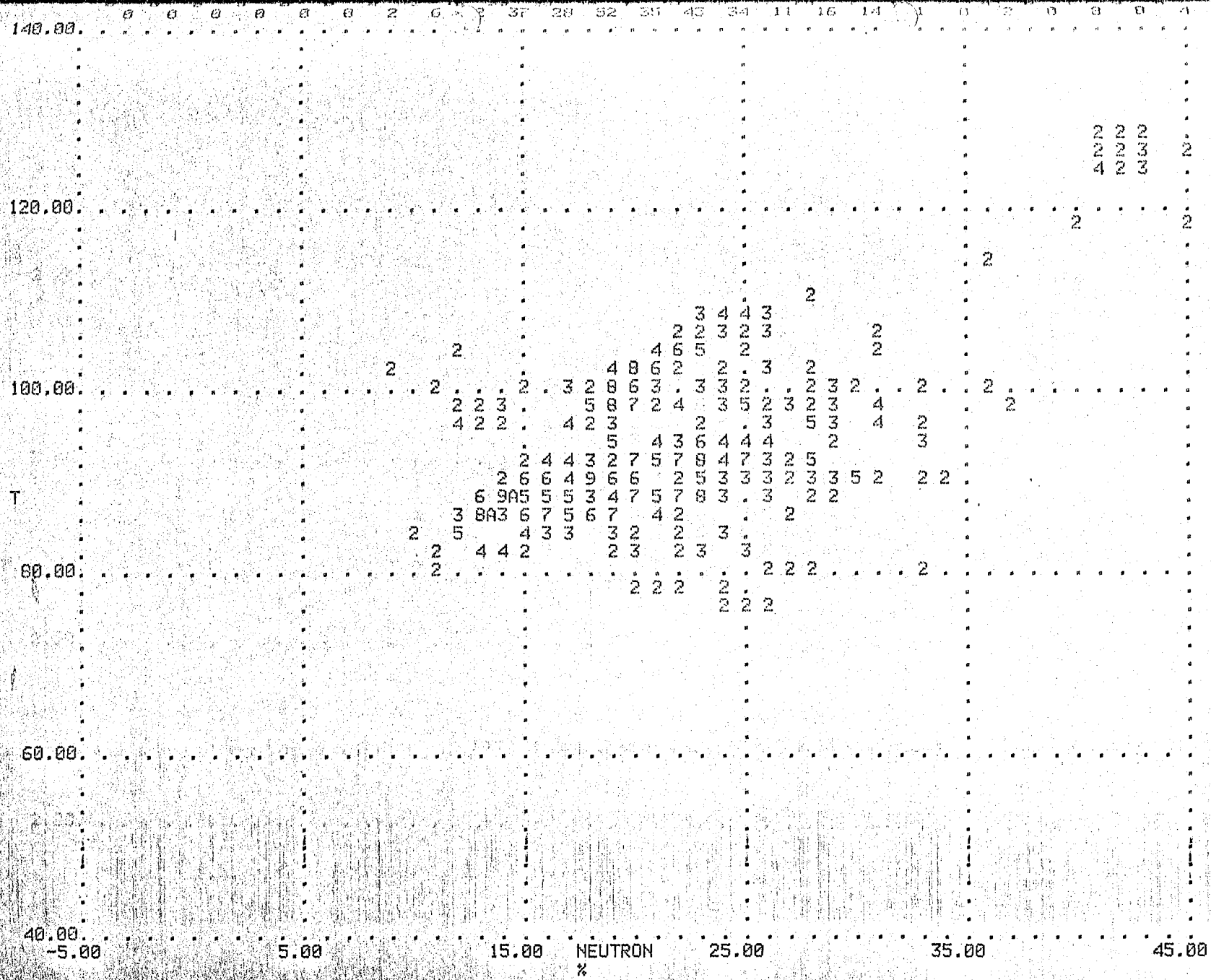
WELL NO.: 2X ID: 102,

020309006000



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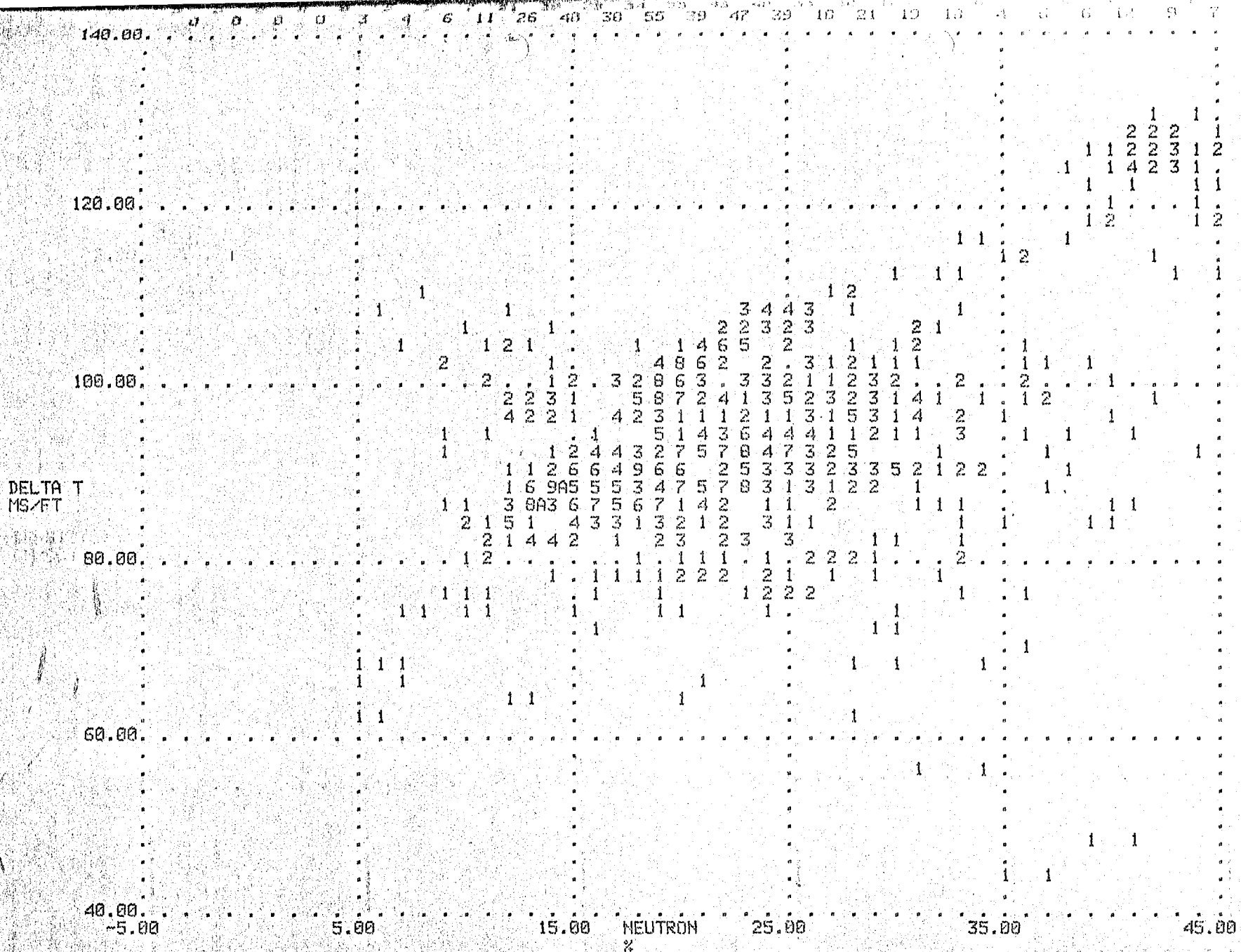
POR N/D
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DELTA T
MS/FT

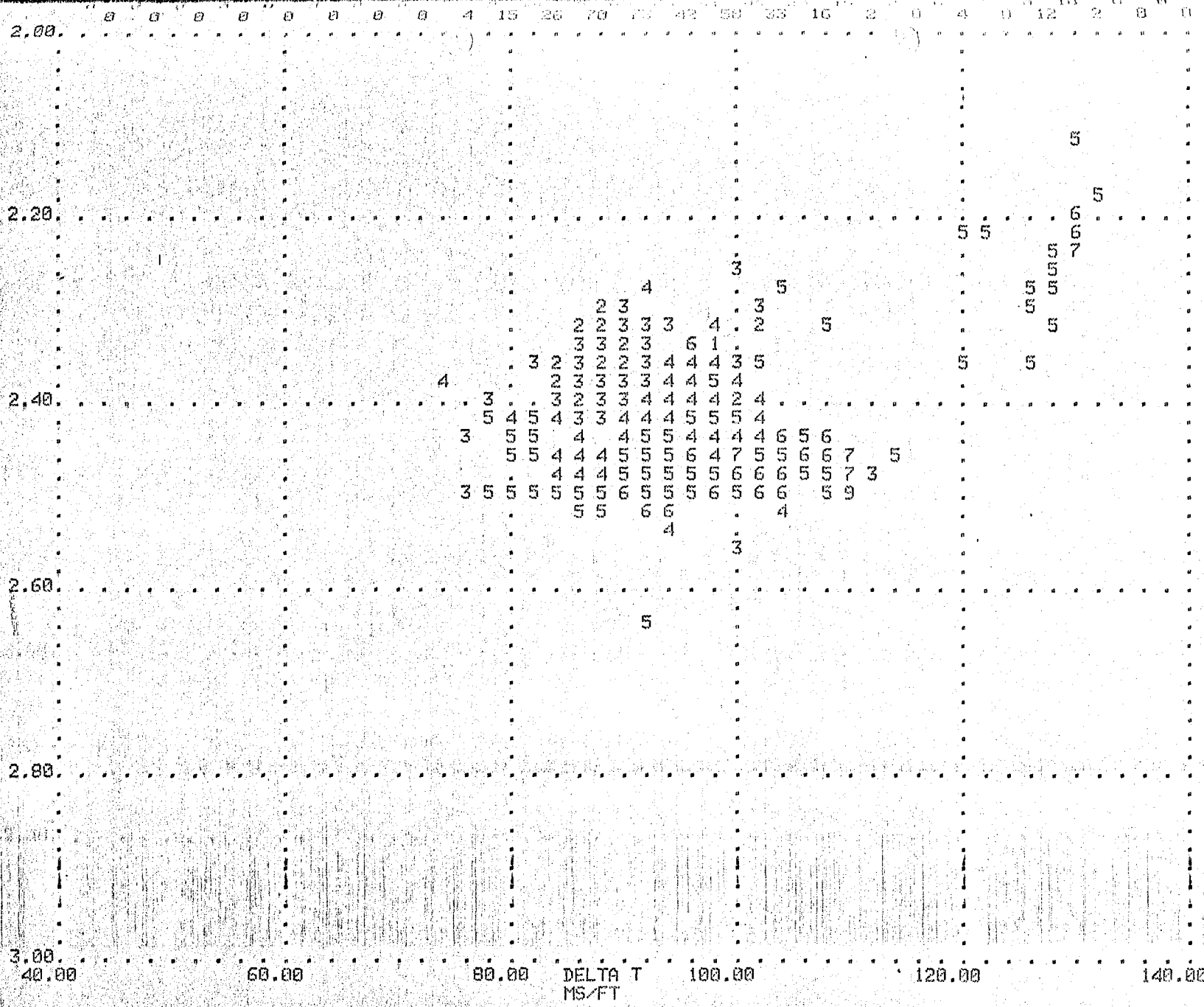
NEUTRON
%

DEPTH: 9700.0 TO 10564.0 IN 1 ZONE(S) DROPS = 1 824 POINTS USED IN PLOT
 OPERATOR: PHILLIPS PETROLEUM CO. LEASE AND TRACT: 7/11 WELL NO.: 2X ID: 102, 820309006000



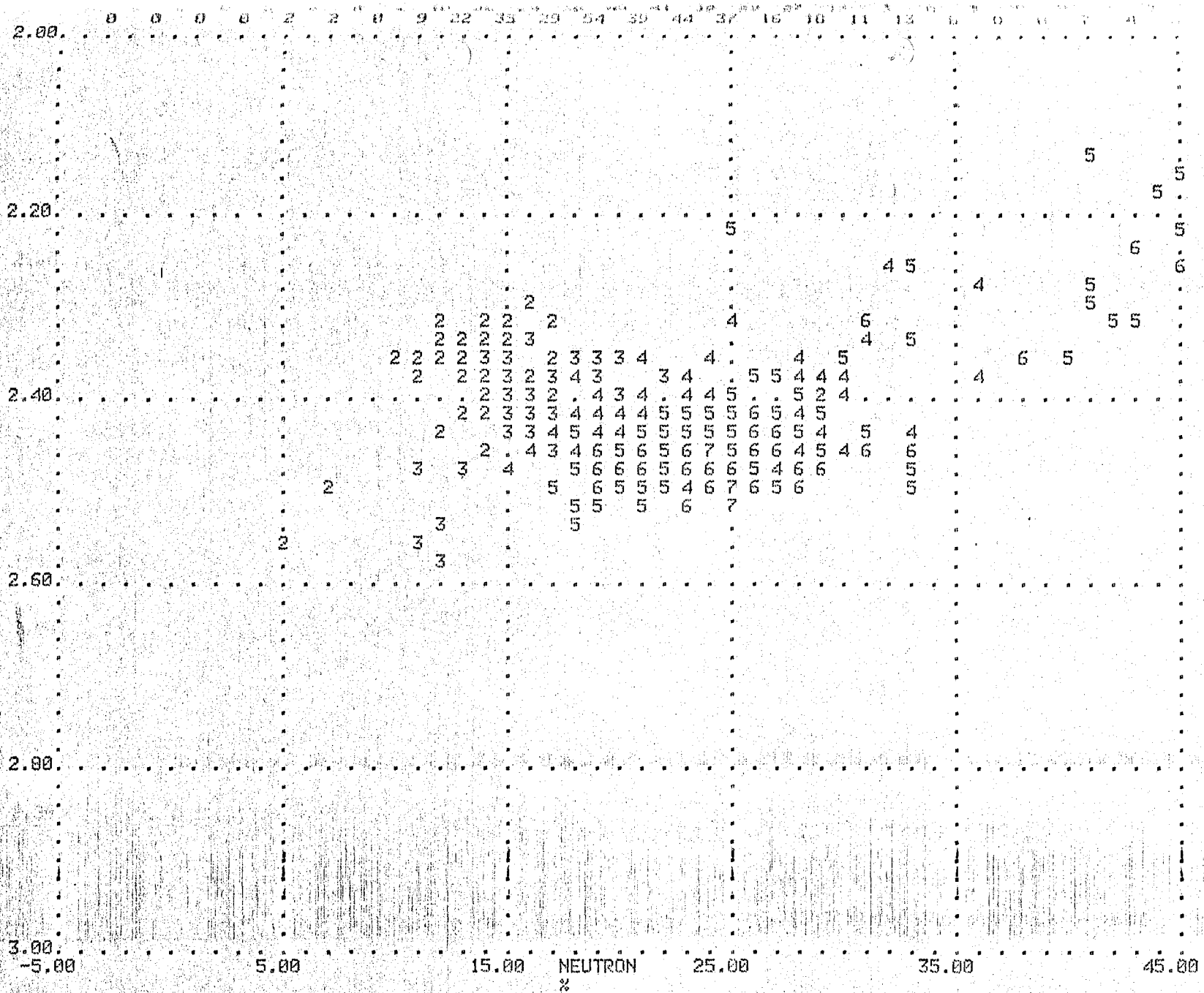
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DENSITY
GM/CC

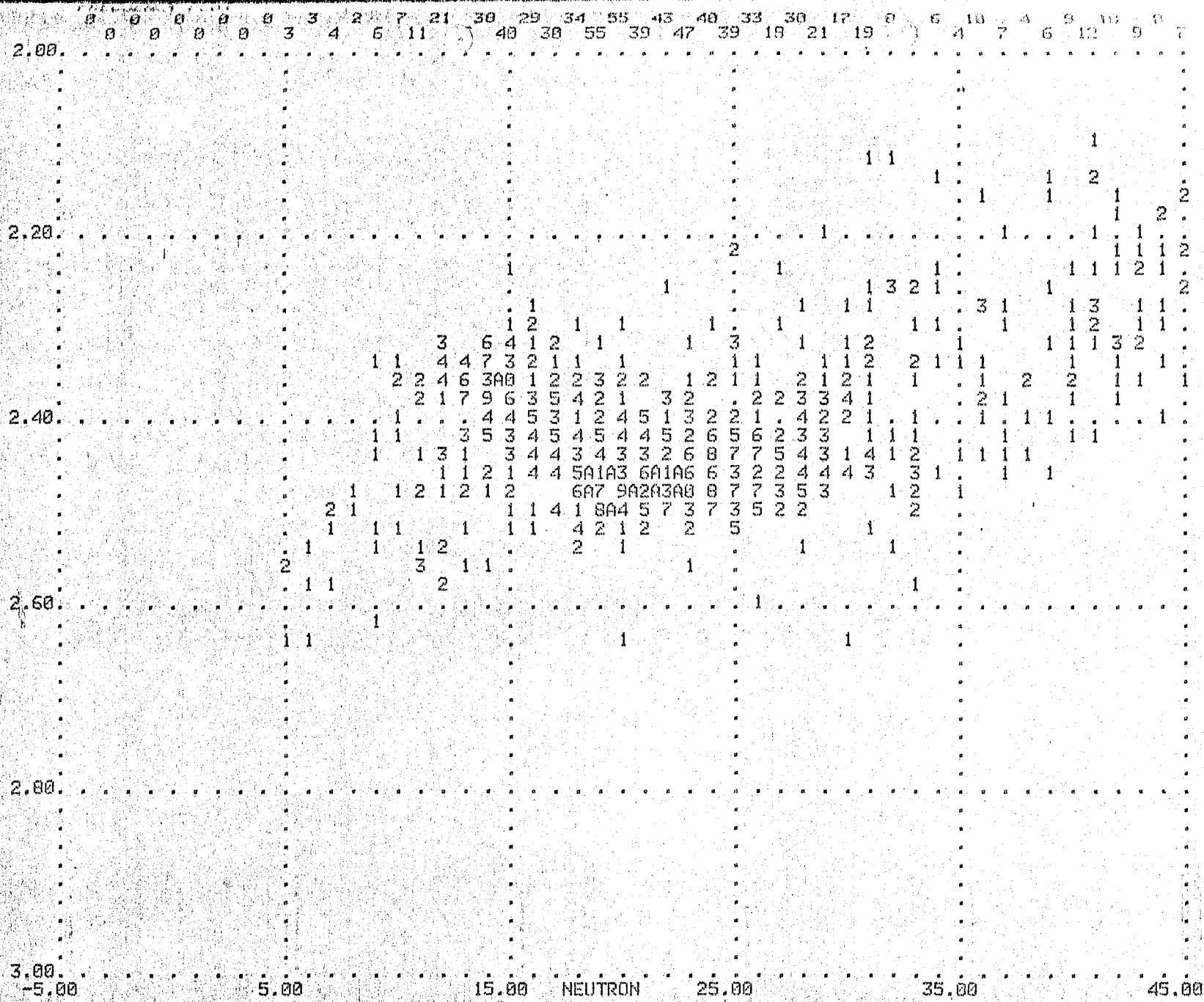


DEPTH: 9700.0 TO 10564.0 IN 1 ZONES DROPS = 1 861 POINTS USED IN PLOT
 OPERATOR: PHILLIPS PETROLEUM CO. LEASE AND TRACT: 7/11 WELL NO.: 2X ID: 102. 020309006000

DENSITY
GM/CC

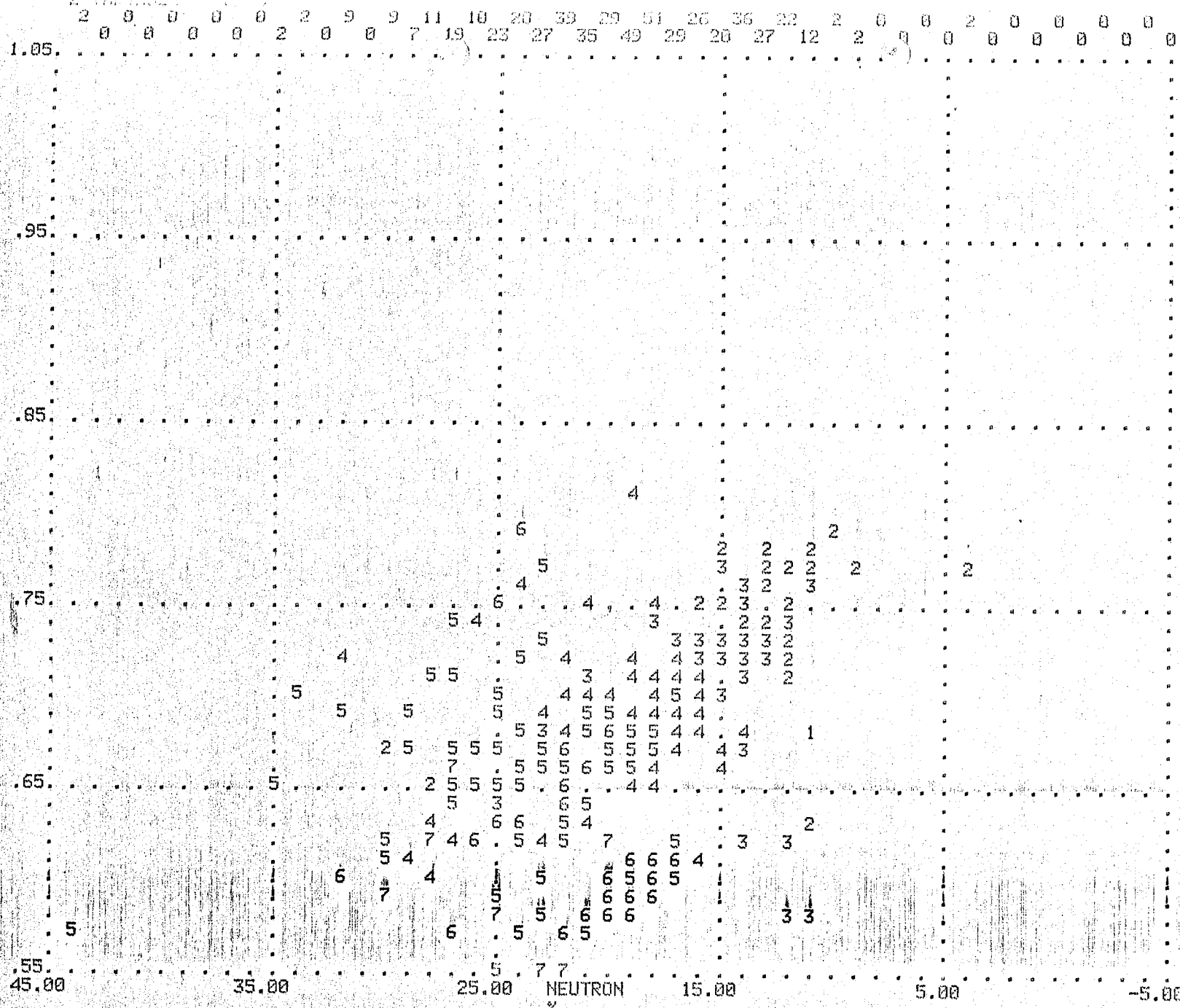


DEPTH: 9700.0 TO 10564.0 IN 1 ZONES DROPS = 1 828 POINTS USED IN PLOT
 OPERATOR: PHILLIPS PETROLEUM CO. LEASE AND TRACT: 7/11 WELL NO.: 2X ID: 102, 020309006000



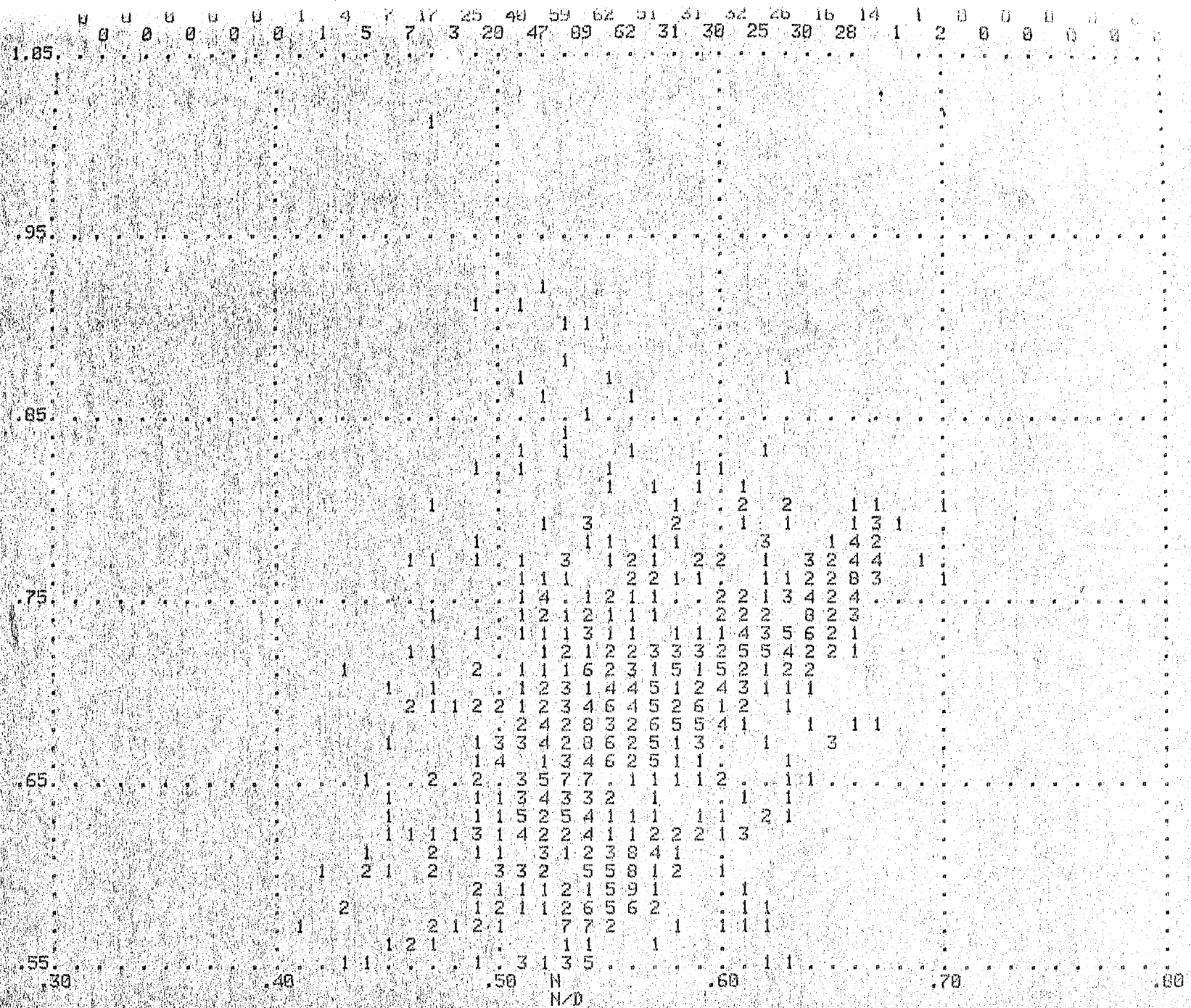
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DENSITY
GM/CC



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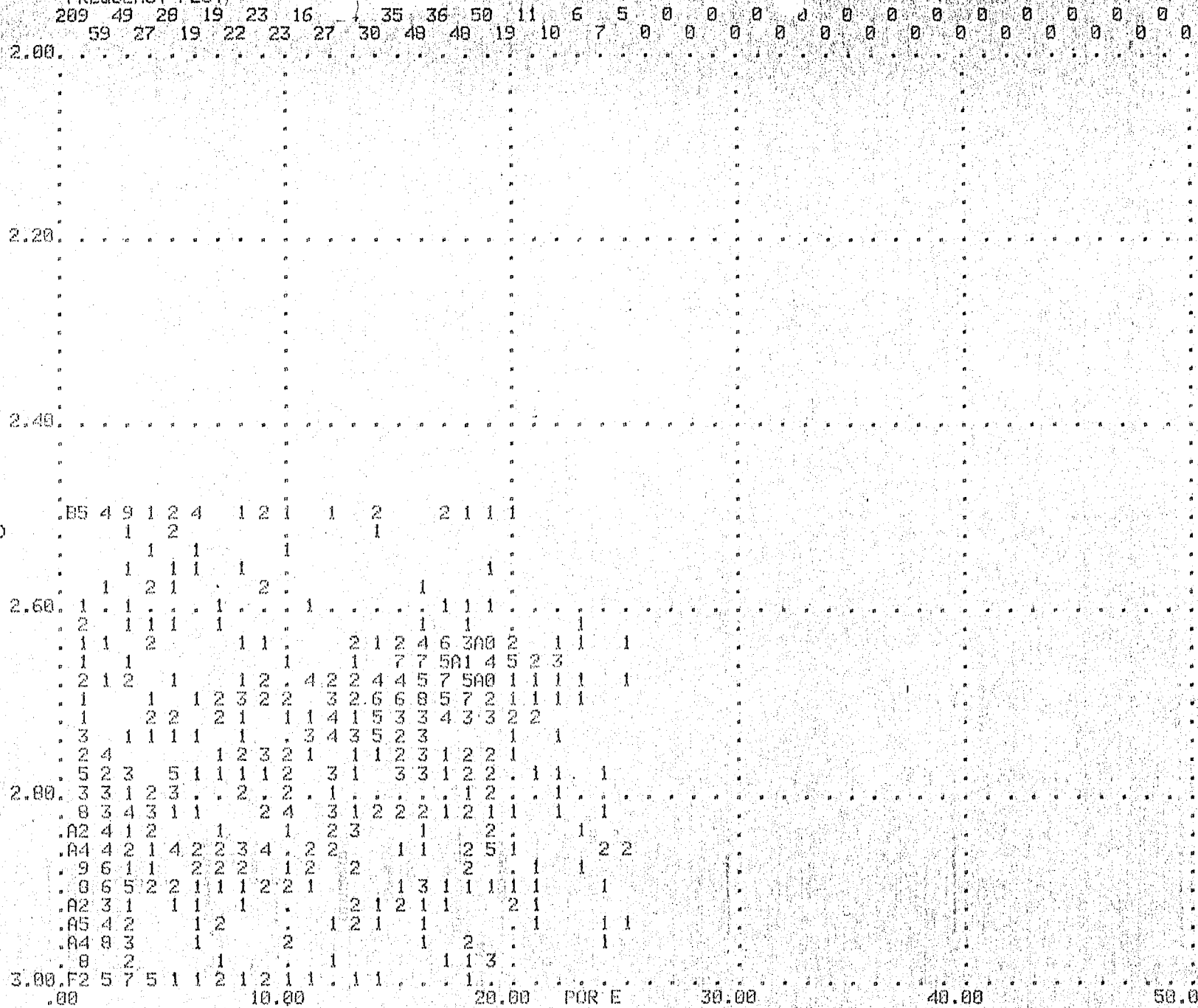
DEPTH: 9700.0 TO 10564.0 IN 1 ZONES DROPS = 1 753 POINTS USED IN PLOT
 OPERATOR: PHILLIPS PETROLEUM CO. LEASE AND TRACT: 7/11 WELL NO.: 2X ID: 102. 820309006000



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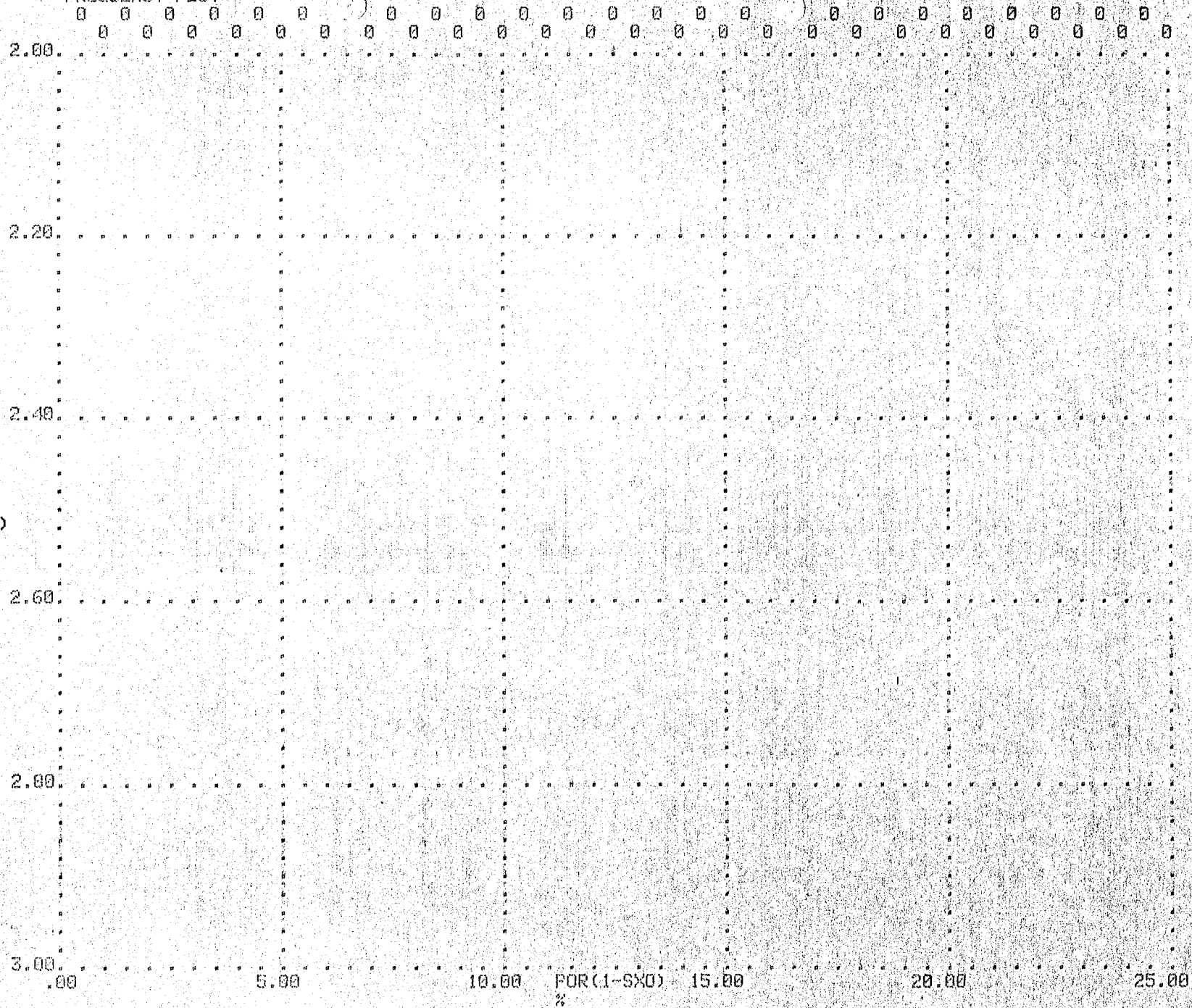
DEPTH: 9700.0 TO 10564.0 IN 1 ZONE(S) DROPS = 1 767 POINTS USED IN PLOT
 OPERATOR: PHILLIPS PETROLEUM CO. LEASE AND TRACT: 7/11 WELL NO.: 2X ID: 102 820309006000

FREQUENCY PLOT



DEN (MA)
GM/CC

FREQUENCY PLOT

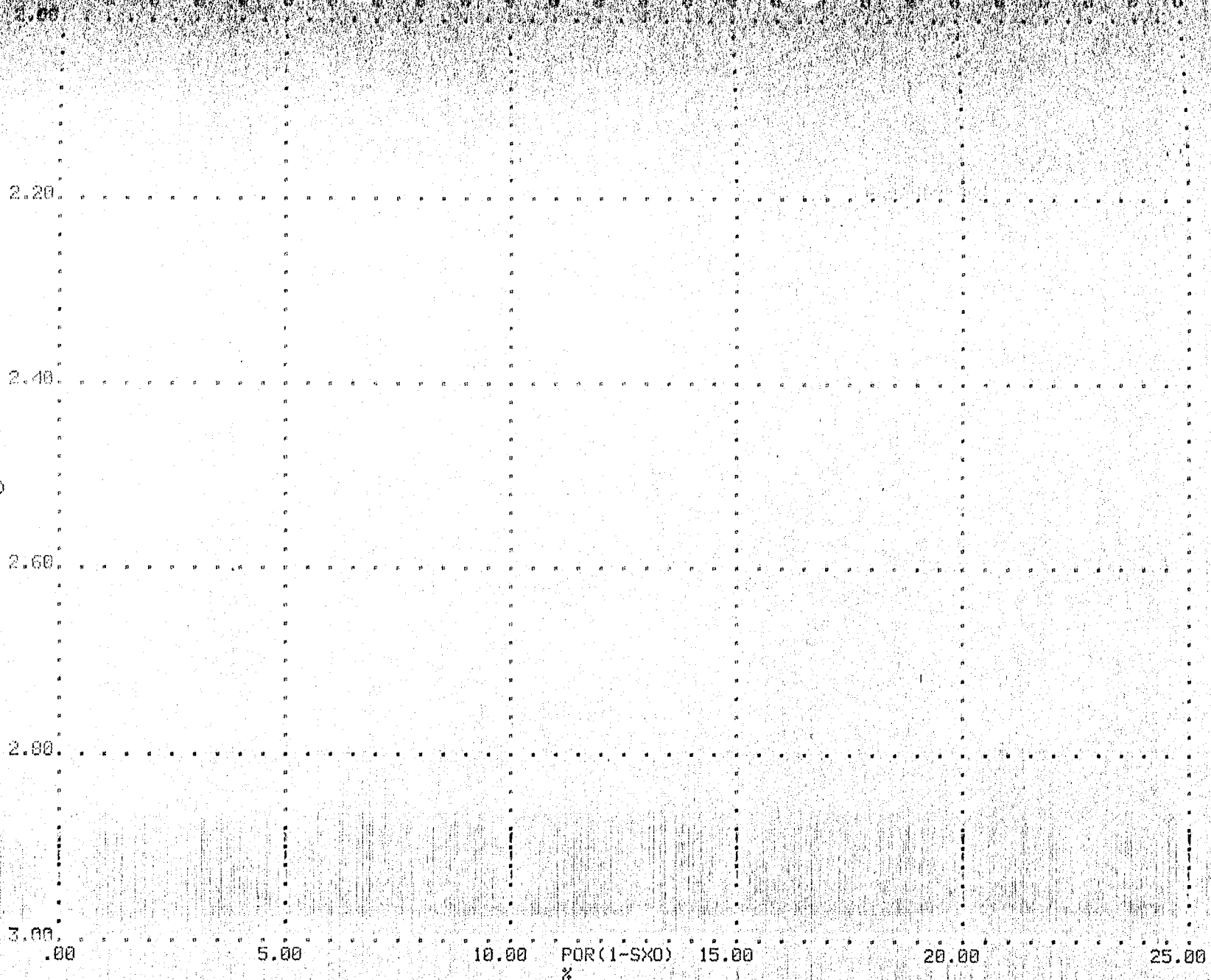


DEN (MA)
GM/CC

DEPTH: 9700.0 TO 10564.0 IN 1 ZONE(S) DROPS = 1
OPERATOR: PHILLIPS PETROLEUM CO. LEASE AND TRACT: 7-11

0 POINTS USED IN PLOT
WELL NO.: 2X ID: 102, 020309006000

DEN (MA)
GM/CC

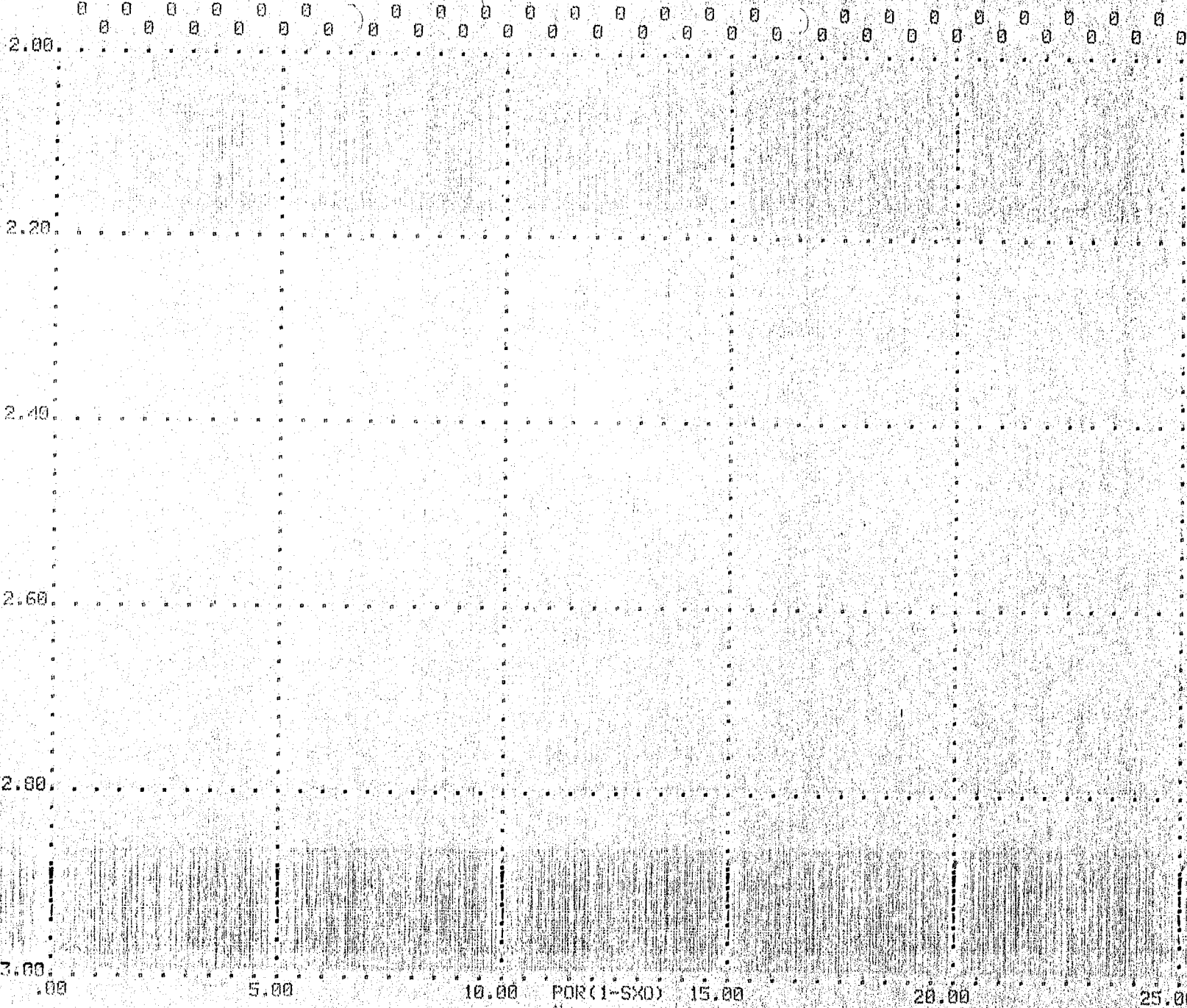


DEPTH: 9700.0 TO 10564.0 IN 1 ZONE(S) DROPS = 1
OPERATOR: PHILLIPS PETROLEUM CO. LEASE AND TRACT: 7/11

0 POINTS USED IN PLOT
WELL NO.: 2X ID: 102.

820309006000

Z-VARIABLE GR C

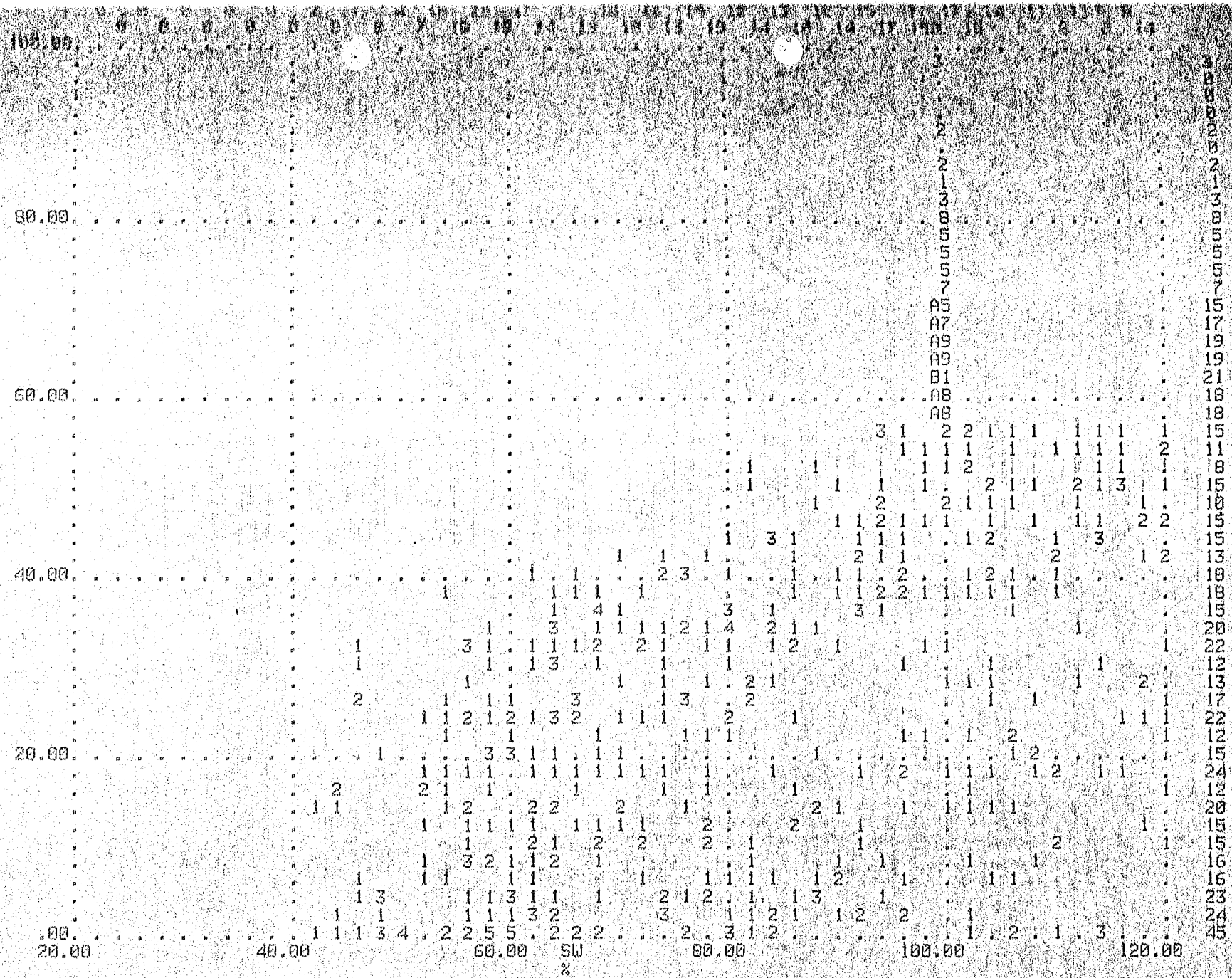


DEN (MA)
GM/CC

DEPTH: 9700.0 TO 10564.0 IN 1 ZONES DROPS = 1
OPERATOR: PHILLIPS PETROLEUM CO. LEASE AND TRACT: 7-11

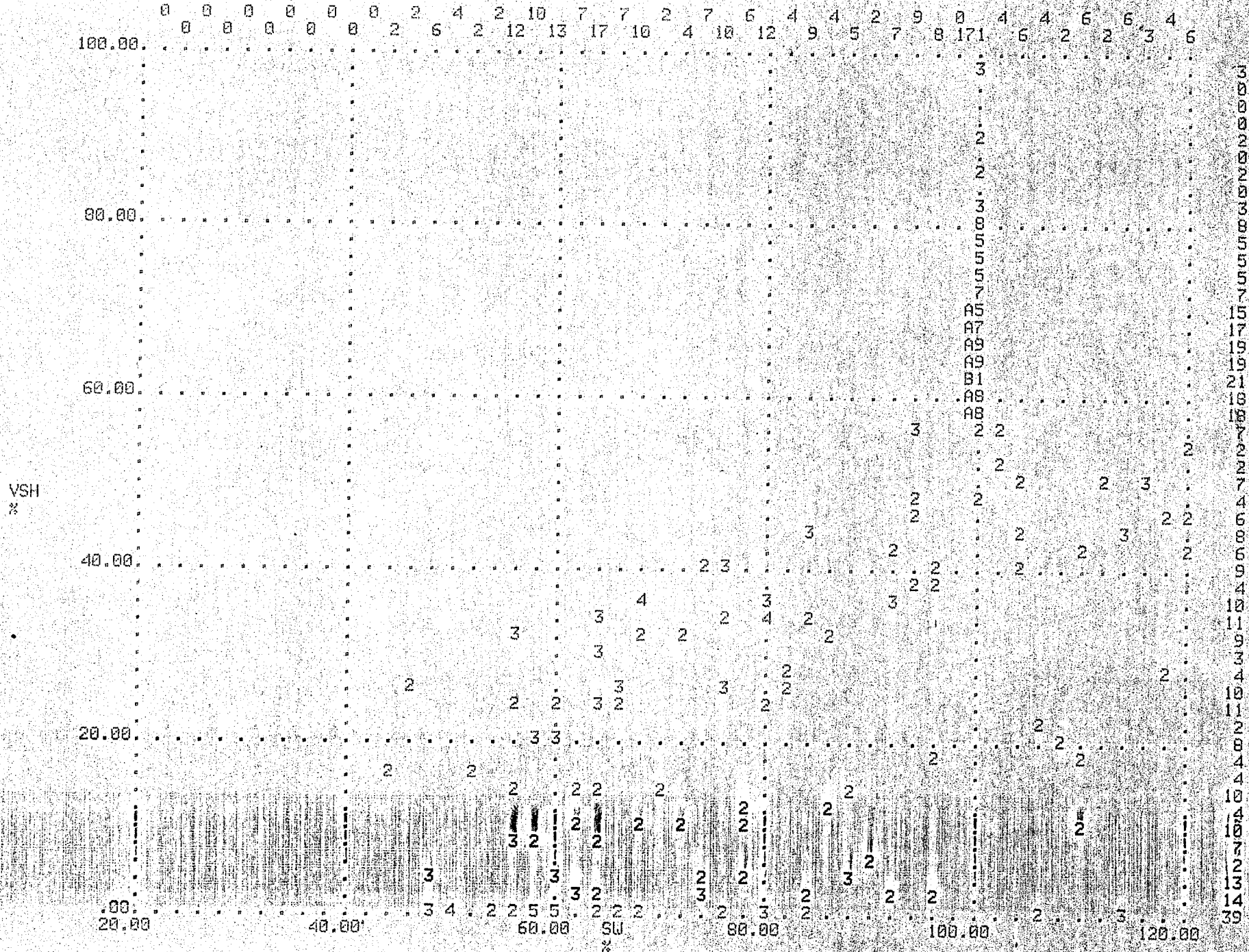
0 POINTS USED IN PLOT
WELL NO.: 2X ID: 102. 020309006000

VSH
%



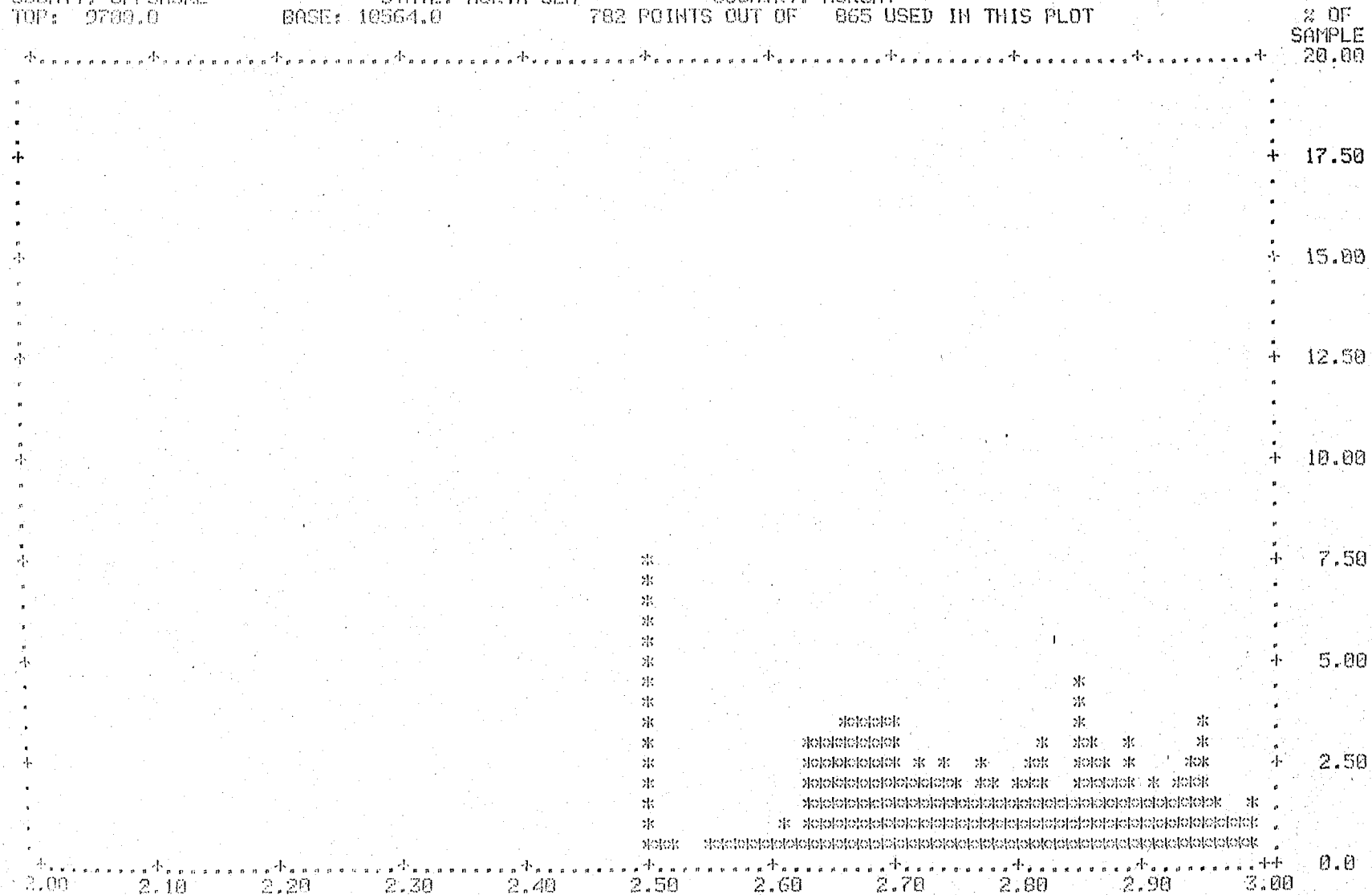
DEPTH: 9700.0 TO 10564.0 IN 1 ZONE(S) DROPS = 1 654 POINTS USED IN PLOT
 OPERATOR: PHILLIPS PETROLEUM CO. LEASE AND TRACT: 7/11 WELL NO.: 2X ID: 102, 020309006000

FREQUENCY PLOT



DEPTH: 9700.0 TO 10564.0 IN 1 ZONE(S) DROPS = 1 664 POINTS USED IN PLOT
 OPERATOR: PHILLIPS PETROLEUM CO. LEASE AND TRACT: 7-11 WELL NO.: 2X TD: 102. 820300000000

DEN(MA) HISTOGRAM DATE: JULY 5, 1979. TIME 0:0
 API NUMBER: 020309006000 WELL NUMBER: 2X WELL ID: 102
 OPERATOR: PHILLIPS PETROLEUM CO. LEASE AND TRACT: 7/11
 COUNTY: OFFSHORE STATE: NORTH SEA COUNTRY: NORWAY
 TOP: 9789.0 BASE: 10564.0 782 POINTS OUT OF 865 USED IN THIS PLOT



PLOT: MINIMUM 1.9950 MAXIMUM 2.9950 INCREMENT .0100

RESERVOIR SUMMARY

API NUMBER 820309006300
 OPERATOR PHILLIPS PETROLEUM CO.
 LEASE & TRACT 7411
 WELL NUMBER 2X
 ELEVATION 87.00

DATE OF REPORT

ZONE CODE	ZONE NAME	TOP	BASE
1	PALEOGENE	9786.0	10564.0

DISCRIMINATION CHANNELS	MINIMUM	MAXIMUM	NAME AND UNITS
55	12.0	100.0	POR E %
51	.0	40.0	VSH %

DEPTH	TVD	SUB-SEA DEPTH	POROSITY	SW	SUMMATION POR-FT	SUMMATION SW-FT	SUMMATION HPV	SUMMATION TVD	FAIL DISCRIMINATION
9786.0	9786.0	9699.00	.73	100.000	.000	.000	.0	.0	55 51
9787.0	9787.0	9700.00	1.60	100.000	.000	.000	.0	.0	55 51
9788.0	9788.0	9701.00	3.29	100.000	.000	.000	.0	.0	55 51
9789.0	9789.0	9702.00	6.39	100.000	.000	.000	.0	.0	55 51
9790.0	9790.0	9703.00	1.09	100.000	.000	.000	.0	.0	55 51
9791.0	9791.0	9704.00	2.16	100.000	.000	.000	.0	.0	55 51
9792.0	9792.0	9705.00	1.43	100.000	.000	.000	.0	.0	55 51
9793.0	9793.0	9706.00	.37	100.000	.000	.000	.0	.0	55 51
9794.0	9794.0	9707.00	.44	100.000	.000	.000	.0	.0	55 51
9795.0	9795.0	9708.00	2.64	100.000	.000	.000	.0	.0	55 51
9796.0	9796.0	9709.00	0.74	100.000	.000	.000	.0	.0	55
9797.0	9797.0	9710.00	17.60	100.000	.177	.177	.0	1.0	
9798.0	9798.0	9711.00	19.00	100.000	.360	.360	.0	2.0	
9799.0	9799.0	9712.00	17.50	81.300	.543	.511	.0	3.0	
9800.0	9800.0	9713.00	11.00	90.462	.543	.511	.0	3.0	55
9801.0	9801.0	9714.00	2.25	100.000	.543	.511	.0	3.0	55 51
9802.0	9802.0	9715.00	.15	100.000	.543	.511	.0	3.0	55 51
9803.0	9803.0	9716.00	2.36	100.000	.543	.511	.0	3.0	55 51
9804.0	9804.0	9717.00	9.00	100.000	.543	.511	.0	3.0	55
9805.0	9805.0	9718.00	15.27	97.135	.696	.659	.0	4.0	
9806.0	9806.0	9719.00	19.29	100.000	.889	.852	.0	5.0	
9807.0	9807.0	9720.00	20.39	100.000	1.093	1.056	.0	6.0	
9808.0	9808.0	9721.00	16.04	80.770	1.253	1.190	.1	7.0	
9809.0	9809.0	9722.00	14.73	99.676	1.401	1.345	.1	8.0	
9810.0	9810.0	9723.00	19.47	100.000	1.595	1.540	.1	9.0	
9811.0	9811.0	9724.00	20.10	100.000	1.796	1.741	.1	10.0	
9812.0	9812.0	9725.00	22.33	90.741	2.020	1.943	.1	11.0	
9813.0	9813.0	9726.00	23.59	92.570	2.255	2.162	.1	12.0	
9814.0	9814.0	9727.00	24.36	90.175	2.499	2.381	.1	13.0	

DEPTH	TVD	SUB-SEA DEPTH	POROSITY	SW	SUMMATION POR-FT	SUMMATION SW-FT	SUMMATION HPV	SUMMATION TVD	FAIL DISCRIMINATION
9815.0	9815.0	9728.00	23.98	88.899	2.739	2.595	.1	14.0	
9816.0	9816.0	9729.00	23.90	86.885	2.978	2.880	.2	15.0	
9817.0	9817.0	9730.00	23.23	88.368	3.210	3.005	.2	16.0	
9818.0	9818.0	9731.00	23.94	81.538	3.450	3.201	.2	17.0	
9819.0	9819.0	9732.00	24.91	79.843	3.699	3.399	.3	18.0	
9820.0	9820.0	9733.00	24.04	80.867	3.939	3.592	.3	19.0	
9821.0	9821.0	9734.00	22.51	80.290	4.164	3.773	.4	20.0	
9822.0	9822.0	9735.00	21.94	77.920	4.383	3.944	.4	21.0	
9823.0	9823.0	9736.00	21.27	75.744	4.596	4.105	.5	22.0	
9824.0	9824.0	9737.00	20.51	73.238	4.801	4.255	.5	23.0	
9825.0	9825.0	9738.00	18.28	79.848	4.984	4.401	.6	24.0	
9826.0	9826.0	9739.00	15.28	79.757	5.137	4.523	.6	25.0	
9827.0	9827.0	9740.00	5.36	100.000	5.137	4.523	.6	25.0	55 51
9828.0	9828.0	9741.00	10.00	94.118	5.137	4.523	.6	25.0	55
9829.0	9829.0	9742.00	11.58	92.326	5.137	4.523	.6	25.0	55
9830.0	9830.0	9743.00	1.21	100.000	5.137	4.523	.6	25.0	55 51
9831.0	9831.0	9744.00	.00	100.000	5.137	4.523	.6	25.0	55 51
9832.0	9832.0	9745.00	.00	100.000	5.137	4.523	.6	25.0	55 51
9833.0	9833.0	9746.00	.00	100.000	5.137	4.523	.6	25.0	55 51
9834.0	9834.0	9747.00	.00	100.000	5.137	4.523	.6	25.0	55 51
9835.0	9835.0	9748.00	.00	100.000	5.137	4.523	.6	25.0	55 51
9836.0	9836.0	9749.00	.00	100.000	5.137	4.523	.6	25.0	55 51
9837.0	9837.0	9750.00	.00	100.000	5.137	4.523	.6	25.0	55 51
9838.0	9838.0	9751.00	.00	100.000	5.137	4.523	.6	25.0	55 51
9839.0	9839.0	9752.00	.00	100.000	5.137	4.523	.6	25.0	55 51
9840.0	9840.0	9753.00	.00	100.000	5.137	4.523	.6	25.0	55 51
9841.0	9841.0	9754.00	.00	100.000	5.137	4.523	.6	25.0	55 51
9842.0	9842.0	9755.00	.00	100.000	5.137	4.523	.6	25.0	55 51
9843.0	9843.0	9756.00	.03	100.000	5.137	4.523	.6	25.0	55 51
9844.0	9844.0	9757.00	.03	100.000	5.137	4.523	.6	25.0	55 51
9845.0	9845.0	9758.00	.01	100.000	5.137	4.523	.6	25.0	55 51
9846.0	9846.0	9759.00	.00	100.000	5.137	4.523	.6	25.0	55 51
9847.0	9847.0	9760.00	.00	100.000	5.137	4.523	.6	25.0	55 51
9848.0	9848.0	9761.00	.00	100.000	5.137	4.523	.6	25.0	55 51
9849.0	9849.0	9762.00	.00	100.000	5.137	4.523	.6	25.0	55 51
9850.0	9850.0	9763.00	.00	100.000	5.137	4.523	.6	25.0	55 51
9851.0	9851.0	9764.00	.01	100.000	5.137	4.523	.6	25.0	55 51
9852.0	9852.0	9765.00	.09	100.000	5.137	4.523	.6	25.0	55 51
9853.0	9853.0	9766.00	.05	100.000	5.137	4.523	.6	25.0	55 51
9854.0	9854.0	9767.00	.34	100.000	5.137	4.523	.6	25.0	55 51
9855.0	9855.0	9768.00	1.24	100.000	5.137	4.523	.6	25.0	55 51
9856.0	9856.0	9769.00	3.93	100.000	5.137	4.523	.6	25.0	55 51
9857.0	9857.0	9770.00	6.40	100.000	5.137	4.523	.6	25.0	55 51
9858.0	9858.0	9771.00	2.03	100.000	5.137	4.523	.6	25.0	55 51
9859.0	9859.0	9772.00	.23	100.000	5.137	4.523	.6	25.0	55 51
9860.0	9860.0	9773.00	.02	100.000	5.137	4.523	.6	25.0	55 51
9861.0	9861.0	9774.00	.04	100.000	5.137	4.523	.6	25.0	55 51
9862.0	9862.0	9775.00	.00	100.000	5.137	4.523	.6	25.0	55 51
9863.0	9863.0	9776.00	.23	100.000	5.137	4.523	.6	25.0	55 51
9864.0	9864.0	9777.00	.20	100.000	5.137	4.523	.6	25.0	55 51
9865.0	9865.0	9778.00	.16	100.000	5.137	4.523	.6	25.0	55 51
9866.0	9866.0	9779.00	.04	100.000	5.137	4.523	.6	25.0	55 51

DEPTH	TVD	SUB-SEA DEPTH	POROSITY	SU	SUMMATION POR-FT	SUMMATION SU-FT	SUMMATION HW	SUMMATION TVD	FAIL DISCRIMINATION
9867.0	9867.0	9780.00	.03	100.000	5.137	4.523	.6	25.0	55 51
9868.0	9868.0	9781.00	.08	100.000	5.137	4.523	.6	25.0	55 51
9869.0	9869.0	9782.00	.22	100.000	5.137	4.523	.6	25.0	55 51
9870.0	9870.0	9783.00	.56	100.000	5.137	4.523	.6	25.0	55 51
9871.0	9871.0	9784.00	2.10	100.000	5.137	4.523	.6	25.0	55 51
9872.0	9872.0	9785.00	4.39	100.000	5.137	4.523	.6	25.0	55 51
9873.0	9873.0	9786.00	7.38	100.000	5.137	4.523	.6	25.0	55 51
9874.0	9874.0	9787.00	8.37	100.000	5.137	4.523	.6	25.0	55 51
9875.0	9875.0	9788.00	4.04	100.000	5.137	4.523	.6	25.0	55 51
9876.0	9876.0	9789.00	6.97	100.000	5.137	4.523	.6	25.0	55 51
9877.0	9877.0	9790.00	4.56	100.000	5.137	4.523	.6	25.0	55 51
9878.0	9878.0	9791.00	.59	100.000	5.137	4.523	.6	25.0	55 51
9879.0	9879.0	9792.00	.12	100.000	5.137	4.523	.6	25.0	55 51
9880.0	9880.0	9793.00	.11	100.000	5.137	4.523	.6	25.0	55 51
9881.0	9881.0	9794.00	.02	100.000	5.137	4.523	.6	25.0	55 51
9882.0	9882.0	9795.00	.01	100.000	5.137	4.523	.6	25.0	55 51
9883.0	9883.0	9796.00	.00	100.000	5.137	4.523	.6	25.0	55 51
9884.0	9884.0	9797.00	.01	100.000	5.137	4.523	.6	25.0	55 51
9885.0	9885.0	9798.00	.07	100.000	5.137	4.523	.6	25.0	55 51
9886.0	9886.0	9799.00	1.25	100.000	5.137	4.523	.6	25.0	55 51
9887.0	9887.0	9800.00	9.19	96.051	5.137	4.523	.6	25.0	55 51
9888.0	9888.0	9801.00	5.47	100.000	5.137	4.523	.6	25.0	55 51
9889.0	9889.0	9802.00	1.10	100.000	5.137	4.523	.6	25.0	55 51
9890.0	9890.0	9803.00	.20	100.000	5.137	4.523	.6	25.0	55 51
9891.0	9891.0	9804.00	.07	100.000	5.137	4.523	.6	25.0	55 51
9892.0	9892.0	9805.00	.09	100.000	5.137	4.523	.6	25.0	55 51
9893.0	9893.0	9806.00	.14	100.000	5.137	4.523	.6	25.0	55 51
9894.0	9894.0	9807.00	.13	100.000	5.137	4.523	.6	25.0	55 51
9895.0	9895.0	9808.00	.10	100.000	5.137	4.523	.6	25.0	55 51
9896.0	9896.0	9809.00	.05	100.000	5.137	4.523	.6	25.0	55 51
9897.0	9897.0	9810.00	.16	100.000	5.137	4.523	.6	25.0	55 51
9898.0	9898.0	9811.00	.58	100.000	5.137	4.523	.6	25.0	55 51
9899.0	9899.0	9812.00	1.31	100.000	5.137	4.523	.6	25.0	55 51
9900.0	9900.0	9813.00	.10	100.000	5.137	4.523	.6	25.0	55 51
9901.0	9901.0	9814.00	.03	100.000	5.137	4.523	.6	25.0	55 51
9902.0	9902.0	9815.00	.48	100.000	5.137	4.523	.6	25.0	55 51
9903.0	9903.0	9816.00	.88	100.000	5.137	4.523	.6	25.0	55 51
9904.0	9904.0	9817.00	.11	100.000	5.137	4.523	.6	25.0	55 51
9905.0	9905.0	9818.00	.02	100.000	5.137	4.523	.6	25.0	55 51
9906.0	9906.0	9819.00	.00	100.000	5.137	4.523	.6	25.0	55 51
9907.0	9907.0	9820.00	.00	100.000	5.137	4.523	.6	25.0	55 51
9908.0	9908.0	9821.00	.05	100.000	5.137	4.523	.6	25.0	55 51
9909.0	9909.0	9822.00	.07	100.000	5.137	4.523	.6	25.0	55 51
9910.0	9910.0	9823.00	.06	100.000	5.137	4.523	.6	25.0	55 51
9911.0	9911.0	9824.00	.06	100.000	5.137	4.523	.6	25.0	55 51
9912.0	9912.0	9825.00	.01	100.000	5.137	4.523	.6	25.0	55 51
9913.0	9913.0	9826.00	.00	100.000	5.137	4.523	.6	25.0	55 51
9914.0	9914.0	9827.00	.08	100.000	5.137	4.523	.6	25.0	55 51
9915.0	9915.0	9828.00	.57	100.000	5.137	4.523	.6	25.0	55 51
9916.0	9916.0	9829.00	1.91	100.000	5.137	4.523	.6	25.0	55 51
9917.0	9917.0	9830.00	3.68	100.000	5.137	4.523	.6	25.0	55 51
9918.0	9918.0	9831.00	3.73	100.000	5.137	4.523	.6	25.0	55 51

DEPTH	TVD	SUB-SEA DEPTH	POROSITY	SW	SUMMATION POR-FT	SUMMATION SW-FT	SUMMATION HPV	SUMMATION TVD	FAIL DISCRIMINATION
9919.0	9919.0	9832.00	1.33	100.000	5.137	4.523	.6	25.0	55 51
9920.0	9920.0	9833.00	.19	100.000	5.137	4.523	.6	25.0	55 51
9921.0	9921.0	9834.00	.74	100.000	5.137	4.523	.6	25.0	55 51
9922.0	9922.0	9835.00	2.23	100.000	5.137	4.523	.6	25.0	55 51
9923.0	9923.0	9836.00	2.67	100.000	5.137	4.523	.6	25.0	55 51
9924.0	9924.0	9837.00	1.98	100.000	5.137	4.523	.6	25.0	55 51
9925.0	9925.0	9838.00	.39	100.000	5.137	4.523	.6	25.0	55 51
9926.0	9926.0	9839.00	.32	100.000	5.137	4.523	.6	25.0	55 51
9927.0	9927.0	9840.00	.19	100.000	5.137	4.523	.6	25.0	55 51
9928.0	9928.0	9841.00	.02	100.000	5.137	4.523	.6	25.0	55 51
9929.0	9929.0	9842.00	.03	100.000	5.137	4.523	.6	25.0	55 51
9930.0	9930.0	9843.00	.07	100.000	5.137	4.523	.6	25.0	55 51
9931.0	9931.0	9844.00	.13	100.000	5.137	4.523	.6	25.0	55 51
9932.0	9932.0	9845.00	1.83	100.000	5.137	4.523	.6	25.0	55 51
9933.0	9933.0	9846.00	10.31	86.306	5.137	4.523	.6	25.0	55
9934.0	9934.0	9847.00	16.88	95.038	5.306	4.683	.6	26.0	
9935.0	9935.0	9848.00	17.13	87.642	5.477	4.833	.6	27.0	
9936.0	9936.0	9849.00	16.57	81.457	5.643	4.968	.7	28.0	
9937.0	9937.0	9850.00	14.16	78.342	5.784	5.079	.7	29.0	
9938.0	9938.0	9851.00	13.14	72.027	5.916	5.174	.7	30.0	
9939.0	9939.0	9852.00	14.89	68.488	6.065	5.276	.8	31.0	
9940.0	9940.0	9853.00	15.98	76.576	6.224	5.398	.8	32.0	
9941.0	9941.0	9854.00	15.83	86.443	6.383	5.535	.8	33.0	
9942.0	9942.0	9855.00	15.22	100.000	6.535	5.687	.8	34.0	
9943.0	9943.0	9856.00	17.84	84.747	6.713	5.838	.9	35.0	
9944.0	9944.0	9857.00	13.25	78.832	6.846	5.943	.9	36.0	
9945.0	9945.0	9858.00	2.11	100.000	6.846	5.943	.9	36.0	55 51
9946.0	9946.0	9859.00	2.39	100.000	6.846	5.943	.9	36.0	55 51
9947.0	9947.0	9860.00	11.97	67.825	6.846	5.943	.9	36.0	55
9948.0	9948.0	9861.00	17.29	59.617	7.019	6.046	1.0	37.0	
9949.0	9949.0	9862.00	21.36	60.202	7.232	6.174	1.1	38.0	
9950.0	9950.0	9863.00	20.55	62.757	7.438	6.303	1.1	39.0	
9951.0	9951.0	9864.00	19.34	61.277	7.631	6.422	1.2	40.0	
9952.0	9952.0	9865.00	19.25	56.990	7.824	6.532	1.3	41.0	
9953.0	9953.0	9866.00	19.58	56.116	8.020	6.641	1.4	42.0	
9954.0	9954.0	9867.00	19.51	59.310	8.215	6.757	1.5	43.0	
9955.0	9955.0	9868.00	15.24	65.140	8.367	6.856	1.5	44.0	
9956.0	9956.0	9869.00	14.12	71.147	8.508	6.957	1.6	45.0	
9957.0	9957.0	9870.00	16.62	72.416	8.674	7.077	1.6	46.0	
9958.0	9958.0	9871.00	16.13	76.815	8.836	7.201	1.6	47.0	
9959.0	9959.0	9872.00	12.08	85.788	8.956	7.305	1.7	48.0	
9960.0	9960.0	9873.00	11.34	67.140	8.956	7.305	1.7	48.0	55
9961.0	9961.0	9874.00	7.81	72.582	8.956	7.305	1.7	48.0	55 51
9962.0	9962.0	9875.00	7.50	75.016	8.956	7.305	1.7	48.0	55 51
9963.0	9963.0	9876.00	17.15	63.677	9.128	7.414	1.7	49.0	
9964.0	9964.0	9877.00	21.07	63.838	9.339	7.549	1.8	50.0	
9965.0	9965.0	9878.00	22.85	59.399	9.567	7.684	1.9	51.0	
9966.0	9966.0	9879.00	20.96	62.759	9.777	7.816	2.0	52.0	
9967.0	9967.0	9880.00	18.55	67.316	9.962	7.941	2.0	53.0	
9968.0	9968.0	9881.00	15.15	68.625	10.114	8.045	2.1	54.0	
9969.0	9969.0	9882.00	12.46	66.699	10.238	8.128	2.1	55.0	
9970.0	9970.0	9883.00	12.63	62.686	10.365	8.207	2.2	56.0	

DEPTH	TVD	SUB-SEA DEPTH	POROSITY	SU	SUMMATION POR-FT	SUMMATION SU-FT	SUMMATION H	SUMMATION TVD	FAIL DISCRIMINATION
9971.0	9971.0	9884.00	13.49	72.387	10.500	8.304	2.2	57.0	
9972.0	9972.0	9885.00	14.15	66.956	10.641	8.399	2.2	58.0	
9973.0	9973.0	9886.00	13.50	63.359	10.776	8.485	2.3	59.0	
9974.0	9974.0	9887.00	14.82	64.891	10.924	8.581	2.3	60.0	
9975.0	9975.0	9888.00	18.43	61.187	11.108	8.694	2.4	61.0	
9976.0	9976.0	9889.00	17.86	62.066	11.287	8.805	2.5	62.0	
9977.0	9977.0	9890.00	2.45	86.933	11.287	8.805	2.5	62.0	55 51
9978.0	9978.0	9891.00	.61	95.185	11.287	8.805	2.5	62.0	55 51
9979.0	9979.0	9892.00	13.59	68.708	11.423	8.898	2.5	63.0	
9980.0	9980.0	9893.00	16.91	66.113	11.592	9.010	2.6	64.0	
9981.0	9981.0	9894.00	15.57	70.364	11.748	9.119	2.6	65.0	
9982.0	9982.0	9895.00	15.25	67.423	11.900	9.222	2.7	66.0	
9983.0	9983.0	9896.00	16.02	63.044	12.060	9.323	2.7	67.0	
9984.0	9984.0	9897.00	18.30	58.999	12.243	9.431	2.8	68.0	
9985.0	9985.0	9898.00	18.59	58.288	12.429	9.539	2.9	69.0	
9986.0	9986.0	9899.00	17.80	60.048	12.607	9.646	3.0	70.0	
9987.0	9987.0	9900.00	15.64	58.639	12.764	9.738	3.0	71.0	
9988.0	9988.0	9901.00	14.67	60.000	12.911	9.826	3.1	72.0	
9989.0	9989.0	9902.00	14.19	60.362	13.052	9.912	3.1	73.0	
9990.0	9990.0	9903.00	15.33	56.537	13.206	9.998	3.2	74.0	
9991.0	9991.0	9904.00	18.28	56.116	13.389	10.101	3.3	75.0	
9992.0	9992.0	9905.00	19.49	56.618	13.583	10.211	3.4	76.0	
9993.0	9993.0	9906.00	17.52	55.899	13.759	10.308	3.5	77.0	
9994.0	9994.0	9907.00	15.63	51.516	13.915	10.388	3.5	78.0	
9995.0	9995.0	9908.00	15.23	53.624	14.067	10.470	3.6	79.0	
9996.0	9996.0	9909.00	11.19	56.438	14.067	10.470	3.6	79.0	55
9997.0	9997.0	9910.00	12.15	58.951	14.189	10.542	3.6	80.0	
9998.0	9998.0	9911.00	17.63	51.733	14.365	10.633	3.7	81.0	
9999.0	9999.0	9912.00	21.03	46.893	14.575	10.730	3.8	82.0	
10000.0	10000.0	9913.00	18.74	47.581	14.763	10.819	3.9	83.0	
10001.0	10001.0	9914.00	14.93	58.477	14.912	10.906	4.0	84.0	
10002.0	10002.0	9915.00	10.92	58.755	14.912	10.906	4.0	84.0	55
10003.0	10003.0	9916.00	8.58	82.484	14.912	10.906	4.0	84.0	55
10004.0	10004.0	9917.00	14.27	62.815	15.055	10.995	4.1	85.0	
10005.0	10005.0	9918.00	15.60	51.817	15.211	11.076	4.1	86.0	
10006.0	10006.0	9919.00	12.89	60.330	15.332	11.149	4.2	87.0	
10007.0	10007.0	9920.00	4.26	85.447	15.332	11.149	4.2	87.0	55 51
10008.0	10008.0	9921.00	.97	100.000	15.332	11.149	4.2	87.0	55 51
10009.0	10009.0	9922.00	3.01	94.348	15.332	11.149	4.2	87.0	55 51
10010.0	10010.0	9923.00	11.79	66.297	15.332	11.149	4.2	87.0	55 51
10011.0	10011.0	9924.00	7.80	72.435	15.332	11.149	4.2	87.0	55 51
10012.0	10012.0	9925.00	.20	100.000	15.332	11.149	4.2	87.0	55 51
10013.0	10013.0	9926.00	.33	100.000	15.332	11.149	4.2	87.0	55 51
10014.0	10014.0	9927.00	4.92	79.751	15.332	11.149	4.2	87.0	55 51
10015.0	10015.0	9928.00	14.97	59.844	15.481	11.238	4.2	88.0	
10016.0	10016.0	9929.00	15.14	58.537	15.633	11.327	4.3	89.0	
10017.0	10017.0	9930.00	.29	100.000	15.633	11.327	4.3	89.0	55 51
10018.0	10018.0	9931.00	.31	100.000	15.633	11.327	4.3	89.0	55 51
10019.0	10019.0	9932.00	8.24	61.124	15.633	11.327	4.3	89.0	55 51
10020.0	10020.0	9933.00	16.68	55.717	15.799	11.420	4.4	90.0	
10021.0	10021.0	9934.00	14.12	57.886	15.941	11.502	4.4	91.0	
10022.0	10022.0	9935.00	7.57	83.988	15.941	11.502	4.4	91.0	55

DEPTH	TVD	SUB-SEA DEPTH	POROSITY	SW	SUMMATION POR-FT	SUMMATION SW-FT	SUMMATION HPV	SUMMATION TVD	FAIL DISCRIMINATION
10023.0	10023.0	9936.00	6.45	100.000	15.941	11.502	4.4	91.0	55
10024.0	10024.0	9937.00	6.55	100.000	15.941	11.502	4.4	91.0	55
10025.0	10025.0	9938.00	7.70	53.376	15.941	11.502	4.4	91.0	55
10026.0	10026.0	9939.00	14.06	56.730	16.081	11.581	4.5	92.0	
10027.0	10027.0	9940.00	17.64	54.135	16.259	11.677	4.6	93.0	
10028.0	10028.0	9941.00	16.74	51.758	16.425	11.763	4.7	94.0	
10029.0	10029.0	9942.00	12.91	55.090	16.554	11.835	4.7	95.0	
10030.0	10030.0	9943.00	14.66	55.185	16.701	11.916	4.8	96.0	
10031.0	10031.0	9944.00	16.32	55.852	16.864	12.007	4.9	97.0	
10032.0	10032.0	9945.00	14.73	57.373	17.012	12.091	4.9	98.0	
10033.0	10033.0	9946.00	14.91	57.623	17.161	12.177	5.0	99.0	
10034.0	10034.0	9947.00	15.48	53.115	17.315	12.259	5.1	100.0	
10035.0	10035.0	9948.00	5.43	69.098	17.315	12.259	5.1	100.0	55 51
10036.0	10036.0	9949.00	13.77	56.093	17.453	12.337	5.1	101.0	
10037.0	10037.0	9950.00	15.80	61.575	17.611	12.434	5.2	102.0	
10038.0	10038.0	9951.00	10.19	61.736	17.793	12.546	5.2	103.0	
10039.0	10039.0	9952.00	16.38	58.709	17.957	12.642	5.3	104.0	
10040.0	10040.0	9953.00	.18	100.000	17.957	12.642	5.3	104.0	55 51
10041.0	10041.0	9954.00	.03	100.000	17.957	12.642	5.3	104.0	55 51
10042.0	10042.0	9955.00	1.88	81.471	17.957	12.642	5.3	104.0	55 51
10043.0	10043.0	9956.00	17.60	42.363	18.133	12.717	5.4	105.0	
10044.0	10044.0	9957.00	15.90	46.555	18.292	12.791	5.5	106.0	
10045.0	10045.0	9958.00	8.21	81.954	18.292	12.791	5.5	106.0	55
10046.0	10046.0	9959.00	5.27	77.600	18.292	12.791	5.5	106.0	55
10047.0	10047.0	9960.00	8.23	62.944	18.292	12.791	5.5	106.0	55
10048.0	10048.0	9961.00	11.63	52.174	18.292	12.791	5.5	106.0	55
10049.0	10049.0	9962.00	17.30	51.820	18.465	12.881	5.6	107.0	
10050.0	10050.0	9963.00	19.24	48.615	18.657	12.974	5.7	108.0	
10051.0	10051.0	9964.00	17.90	47.147	18.836	13.058	5.8	109.0	
10052.0	10052.0	9965.00	16.63	44.473	19.002	13.132	5.9	110.0	
10053.0	10053.0	9966.00	15.41	41.599	19.157	13.197	6.0	111.0	
10054.0	10054.0	9967.00	15.46	42.527	19.311	13.262	6.0	112.0	
10055.0	10055.0	9968.00	16.51	47.610	19.476	13.341	6.1	113.0	
10056.0	10056.0	9969.00	17.17	52.273	19.640	13.431	6.2	114.0	
10057.0	10057.0	9970.00	16.40	57.365	19.812	13.525	6.3	115.0	
10058.0	10058.0	9971.00	15.27	59.382	19.965	13.615	6.3	116.0	
10059.0	10059.0	9972.00	15.08	54.984	20.116	13.698	6.4	117.0	
10060.0	10060.0	9973.00	15.22	53.212	20.268	13.779	6.5	118.0	
10061.0	10061.0	9974.00	14.85	53.681	20.416	13.859	6.6	119.0	
10062.0	10062.0	9975.00	10.63	54.661	20.416	13.859	6.6	119.0	55
10063.0	10063.0	9976.00	9.15	52.868	20.416	13.859	6.6	119.0	55
10064.0	10064.0	9977.00	12.25	45.782	20.539	13.915	6.6	120.0	
10065.0	10065.0	9978.00	17.67	42.221	20.715	13.990	6.7	121.0	
10066.0	10066.0	9979.00	21.14	43.672	20.927	14.082	6.8	122.0	
10067.0	10067.0	9980.00	18.49	48.325	21.112	14.171	6.9	123.0	
10068.0	10068.0	9981.00	17.42	47.988	21.286	14.255	7.0	124.0	
10069.0	10069.0	9982.00	16.68	44.434	21.453	14.329	7.1	125.0	
10070.0	10070.0	9983.00	17.59	43.578	21.629	14.406	7.2	126.0	
10071.0	10071.0	9984.00	18.05	41.734	21.809	14.481	7.3	127.0	
10072.0	10072.0	9985.00	16.54	44.396	21.975	14.554	7.4	128.0	
10073.0	10073.0	9986.00	16.28	49.571	22.137	14.635	7.5	129.0	
10074.0	10074.0	9987.00	16.33	53.650	22.301	14.723	7.6	130.0	

DEPTH	TVD	SUB-SEA DEPTH	POROSITY	SW	SUMMATION POR-FT	SUMMATION SW-FT	SUMMATION NPV	SUMMATION TVD	FAIL DISCRIMINATION
10075.0	10075.0	9990.00	16.84	55.559	22.469	14.816	7.7	131.0	
10076.0	10076.0	9989.00	15.32	54.491	22.622	14.900	7.7	132.0	
10077.0	10077.0	9990.00	16.55	51.351	22.780	14.985	7.8	133.0	
10078.0	10078.0	9991.00	18.94	52.412	22.977	15.084	7.9	134.0	
10079.0	10079.0	9992.00	15.14	57.322	23.129	15.171	8.0	135.0	
10080.0	10080.0	9993.00	13.10	60.366	23.260	15.250	8.0	136.0	
10081.0	10081.0	9994.00	13.76	56.082	23.397	15.327	8.1	137.0	
10082.0	10082.0	9995.00	13.75	54.645	23.535	15.402	8.1	138.0	
10083.0	10083.0	9996.00	13.21	55.155	23.667	15.475	8.2	139.0	
10084.0	10084.0	9997.00	6.73	64.980	23.667	15.475	8.2	139.0	55 51
10085.0	10085.0	9998.00	18.60	54.323	23.853	15.576	8.3	140.0	
10086.0	10086.0	9999.00	20.29	55.680	24.056	15.689	8.4	141.0	
10087.0	10087.0	10000.0	18.69	59.425	24.243	15.800	8.4	142.0	
10088.0	10088.0	10001.0	12.55	60.015	24.369	15.876	8.5	143.0	
10089.0	10089.0	10002.0	4.99	82.962	24.369	15.876	8.5	143.0	55 51
10090.0	10090.0	10003.0	9.85	71.848	24.369	15.876	8.5	143.0	55
10091.0	10091.0	10004.0	12.32	67.632	24.491	15.959	8.5	144.0	
10092.0	10092.0	10005.0	1.84	100.000	24.491	15.959	8.5	144.0	55 51
10093.0	10093.0	10006.0	.54	99.401	24.491	15.959	8.5	144.0	55 51
10094.0	10094.0	10007.0	.96	95.547	24.491	15.959	8.5	144.0	55 51
10095.0	10095.0	10008.0	.42	100.000	24.491	15.959	8.5	144.0	55 51
10096.0	10096.0	10009.0	.43	100.000	24.491	15.959	8.5	144.0	55 51
10097.0	10097.0	10010.0	11.80	63.530	24.491	15.959	8.5	144.0	55
10098.0	10098.0	10011.0	6.09	73.095	24.491	15.959	8.5	144.0	55 51
10099.0	10099.0	10012.0	.63	92.552	24.491	15.959	8.5	144.0	55 51
10100.0	10100.0	10013.0	.46	100.000	24.491	15.959	8.5	144.0	55 51
10101.0	10101.0	10014.0	1.33	100.000	24.491	15.959	8.5	144.0	55 51
10102.0	10102.0	10015.0	12.72	73.603	24.619	16.052	8.6	145.0	
10103.0	10103.0	10016.0	18.40	76.262	24.803	16.193	8.6	146.0	
10104.0	10104.0	10017.0	19.00	70.436	24.993	16.327	8.7	147.0	
10105.0	10105.0	10018.0	18.18	61.816	25.174	16.439	8.7	148.0	
10106.0	10106.0	10019.0	17.12	58.129	25.346	16.539	8.8	149.0	
10107.0	10107.0	10020.0	13.21	62.188	25.478	16.621	8.9	150.0	
10108.0	10108.0	10021.0	11.10	67.489	25.478	16.621	8.9	150.0	55
10109.0	10109.0	10022.0	14.60	63.185	25.624	16.713	8.9	151.0	
10110.0	10110.0	10023.0	10.34	67.427	25.624	16.713	8.9	151.0	55
10111.0	10111.0	10024.0	5.12	82.385	25.624	16.713	8.9	151.0	55 51
10112.0	10112.0	10025.0	3.52	92.222	25.624	16.713	8.9	151.0	55 51
10113.0	10113.0	10026.0	2.27	99.620	25.624	16.713	8.9	151.0	55 51
10114.0	10114.0	10027.0	.98	100.000	25.624	16.713	8.9	151.0	55 51
10115.0	10115.0	10028.0	.23	100.000	25.624	16.713	8.9	151.0	55 51
10116.0	10116.0	10029.0	.04	100.000	25.624	16.713	8.9	151.0	55 51
10117.0	10117.0	10030.0	.39	100.000	25.624	16.713	8.9	151.0	55 51
10118.0	10118.0	10031.0	.86	99.652	25.624	16.713	8.9	151.0	55 51
10119.0	10119.0	10032.0	.72	100.000	25.624	16.713	8.9	151.0	55 51
10120.0	10120.0	10033.0	.69	100.000	25.624	16.713	8.9	151.0	55 51
10121.0	10121.0	10034.0	2.58	100.000	25.624	16.713	8.9	151.0	55 51
10122.0	10122.0	10035.0	13.43	65.652	25.758	16.801	9.0	152.0	
10123.0	10123.0	10036.0	13.62	70.519	25.894	16.897	9.0	153.0	
10124.0	10124.0	10037.0	9.85	99.284	25.894	16.897	9.0	153.0	55
10125.0	10125.0	10038.0	7.97	98.673	25.894	16.897	9.0	153.0	55
10126.0	10126.0	10039.0	10.24	65.211	25.894	16.897	9.0	153.0	55

DEPTH	TVD	SUB-SEA DEPTH	POROSITY	SW	SUMMATION POR-FT	SUMMATION SU-FT	SUMMATION HPV	SUMMATION TVD	FAIL DISCRIMINATION
10127.0	10127.0	10040.0	2.01	93.703	25.894	16.897	9.0	153.0	55 51
10128.0	10128.0	10041.0	1.12	97.230	25.894	16.897	9.0	153.0	55 51
10129.0	10129.0	10042.0	6.16	76.391	25.894	16.897	9.0	153.0	55 51
10130.0	10130.0	10043.0	11.20	63.134	25.894	16.897	9.0	153.0	55
10131.0	10131.0	10044.0	14.54	66.279	26.040	16.993	9.0	154.0	
10132.0	10132.0	10045.0	16.12	65.894	26.201	17.100	9.1	155.0	
10133.0	10133.0	10046.0	5.15	83.267	26.201	17.100	9.1	155.0	55 51
10134.0	10134.0	10047.0	.09	100.000	26.201	17.100	9.1	155.0	55 51
10135.0	10135.0	10048.0	.01	100.000	26.201	17.100	9.1	155.0	55 51
10136.0	10136.0	10049.0	.08	100.000	26.201	17.100	9.1	155.0	55 51
10137.0	10137.0	10050.0	.03	100.000	26.201	17.100	9.1	155.0	55 51
10138.0	10138.0	10051.0	9.57	63.453	26.201	17.100	9.1	155.0	55
10139.0	10139.0	10052.0	15.34	57.837	26.354	17.188	9.2	156.0	
10140.0	10140.0	10053.0	18.34	56.185	26.538	17.291	9.2	157.0	
10141.0	10141.0	10054.0	17.85	54.646	26.716	17.389	9.3	158.0	
10142.0	10142.0	10055.0	18.92	55.088	26.905	17.493	9.4	159.0	
10143.0	10143.0	10056.0	17.95	59.299	27.085	17.599	9.5	160.0	
10144.0	10144.0	10057.0	16.68	61.776	27.252	17.702	9.5	161.0	
10145.0	10145.0	10058.0	18.51	56.106	27.437	17.806	9.6	162.0	
10146.0	10146.0	10059.0	17.91	61.174	27.616	17.916	9.7	163.0	
10147.0	10147.0	10060.0	15.81	63.453	27.774	18.016	9.8	164.0	
10148.0	10148.0	10061.0	17.33	56.683	27.947	18.114	9.8	165.0	
10149.0	10149.0	10062.0	18.45	58.882	28.132	18.223	9.9	166.0	
10150.0	10150.0	10063.0	17.62	64.983	28.308	18.337	10.0	167.0	
10151.0	10151.0	10064.0	17.61	65.076	28.484	18.452	10.0	168.0	
10152.0	10152.0	10065.0	17.59	66.473	28.660	18.569	10.1	169.0	
10153.0	10153.0	10066.0	18.36	66.192	28.844	18.690	10.2	170.0	
10154.0	10154.0	10067.0	16.57	75.623	29.009	18.816	10.2	171.0	
10155.0	10155.0	10068.0	15.84	79.611	29.168	18.942	10.2	172.0	
10156.0	10156.0	10069.0	14.89	76.452	29.317	19.056	10.3	173.0	
10157.0	10157.0	10070.0	15.34	69.017	29.470	19.162	10.3	174.0	
10158.0	10158.0	10071.0	14.06	67.491	29.611	19.257	10.4	175.0	
10159.0	10159.0	10072.0	15.97	68.468	29.770	19.366	10.4	176.0	
10160.0	10160.0	10073.0	17.89	67.527	29.949	19.487	10.5	177.0	
10161.0	10161.0	10074.0	17.75	73.284	30.127	19.617	10.5	178.0	
10162.0	10162.0	10075.0	17.20	82.325	30.299	19.758	10.5	179.0	
10163.0	10163.0	10076.0	18.30	73.614	30.482	19.893	10.6	180.0	
10164.0	10164.0	10077.0	17.79	78.848	30.660	20.033	10.6	181.0	
10165.0	10165.0	10078.0	18.29	79.184	30.843	20.178	10.7	182.0	
10166.0	10166.0	10079.0	19.22	73.389	31.035	20.319	10.7	183.0	
10167.0	10167.0	10080.0	18.63	73.681	31.221	20.456	10.8	184.0	
10168.0	10168.0	10081.0	16.03	82.254	31.381	20.588	10.8	185.0	
10169.0	10169.0	10082.0	15.70	78.904	31.538	20.712	10.8	186.0	
10170.0	10170.0	10083.0	17.36	55.981	31.712	20.869	10.9	187.0	
10171.0	10171.0	10084.0	7.37	75.265	31.712	20.889	10.9	187.0	55 51
10172.0	10172.0	10085.0	17.48	57.486	31.887	20.918	11.0	188.0	
10173.0	10173.0	10086.0	17.66	71.106	32.063	21.035	11.0	189.0	
10174.0	10174.0	10087.0	16.54	75.598	32.229	21.160	11.1	190.0	
10175.0	10175.0	10088.0	13.14	56.217	32.360	21.234	11.1	191.0	
10176.0	10176.0	10089.0	1.75	88.968	32.360	21.234	11.1	191.0	55 51
10177.0	10177.0	10090.0	.62	98.671	32.360	21.234	11.1	191.0	55 51
10178.0	10178.0	10091.0	3.47	98.722	32.360	21.234	11.1	191.0	55 51

DEPTH	TVD	SUB-SEA DEPTH	POROSITY	SU	SUMMATION POR-FT	SUMMATION SU-FT	MPV	TVD	UNIT DISCRIMINATION
10179.0	10179.0	10092.0	11.13	89.920	32.360	21.234	11.2	191.0	55
10180.0	10180.0	10093.0	15.74	62.296	32.518	21.332	11.2	192.0	
10181.0	10181.0	10094.0	11.73	67.371	32.518	21.332	11.2	192.0	55
10182.0	10182.0	10095.0	1.67	97.810	32.518	21.332	11.2	192.0	55 51
10183.0	10183.0	10096.0	2.61	93.676	32.518	21.332	11.2	192.0	55 51
10184.0	10184.0	10097.0	1.27	100.000	32.518	21.332	11.2	192.0	55 51
10185.0	10185.0	10098.0	.74	100.000	32.518	21.332	11.2	192.0	55 51
10186.0	10186.0	10099.0	3.75	89.301	32.518	21.332	11.2	192.0	55 51
10187.0	10187.0	10100.0	19.31	60.209	32.711	21.449	11.3	193.0	
10188.0	10188.0	10101.0	18.42	59.428	32.895	21.558	11.3	194.0	
10189.0	10189.0	10102.0	8.15	75.624	32.895	21.558	11.3	194.0	55 51
10190.0	10190.0	10103.0	.46	100.000	32.895	21.558	11.3	194.0	55 51
10191.0	10191.0	10104.0	.66	100.000	32.895	21.558	11.3	194.0	55 51
10192.0	10192.0	10105.0	4.80	90.458	32.895	21.558	11.3	194.0	55 51
10193.0	10193.0	10106.0	15.07	66.671	33.046	21.658	11.4	195.0	
10194.0	10194.0	10107.0	13.98	80.804	33.185	21.771	11.4	196.0	
10195.0	10195.0	10108.0	13.63	95.172	33.322	21.901	11.4	197.0	
10196.0	10196.0	10109.0	13.02	71.512	33.452	21.994	11.5	198.0	
10197.0	10197.0	10110.0	1.81	100.000	33.452	21.994	11.5	198.0	55 51
10198.0	10198.0	10111.0	.66	100.000	33.452	21.994	11.5	198.0	55 51
10199.0	10199.0	10112.0	2.60	98.077	33.452	21.994	11.5	198.0	55 51
10200.0	10200.0	10113.0	1.94	100.000	33.452	21.994	11.5	198.0	55 51
10201.0	10201.0	10114.0	.13	100.000	33.452	21.994	11.5	198.0	55 51
10202.0	10202.0	10115.0	.00	100.000	33.452	21.994	11.5	198.0	55 51
10203.0	10203.0	10116.0	.00	100.000	33.452	21.994	11.5	198.0	55 51
10204.0	10204.0	10117.0	.00	100.000	33.452	21.994	11.5	198.0	55 51
10205.0	10205.0	10118.0	.02	100.000	33.452	21.994	11.5	198.0	55 51
10206.0	10206.0	10119.0	.10	100.000	33.452	21.994	11.5	198.0	55 51
10207.0	10207.0	10120.0	.17	100.000	33.452	21.994	11.5	198.0	55 51
10208.0	10208.0	10121.0	1.37	100.000	33.452	21.994	11.5	198.0	55 51
10209.0	10209.0	10122.0	7.75	85.621	33.452	21.994	11.5	198.0	55 51
10210.0	10210.0	10123.0	3.39	93.285	33.452	21.994	11.5	198.0	55 51
10211.0	10211.0	10124.0	2.44	93.250	33.452	21.994	11.5	198.0	55 51
10212.0	10212.0	10125.0	1.92	100.000	33.452	21.994	11.5	198.0	55 51
10213.0	10213.0	10125.0	.91	100.000	33.452	21.994	11.5	198.0	55 51
10214.0	10214.0	10127.0	.53	100.000	33.452	21.994	11.5	198.0	55 51
10215.0	10215.0	10128.0	.73	93.810	33.452	21.994	11.5	198.0	55 51
10216.0	10216.0	10129.0	.67	93.873	33.452	21.994	11.5	198.0	55 51
10217.0	10217.0	10130.0	.27	100.000	33.452	21.994	11.5	198.0	55 51
10218.0	10218.0	10131.0	.82	100.000	33.452	21.994	11.5	198.0	55 51
10219.0	10219.0	10132.0	.04	100.000	33.452	21.994	11.5	198.0	55 51
10220.0	10220.0	10133.0	.01	100.000	33.452	21.994	11.5	198.0	55 51
10221.0	10221.0	10134.0	.21	100.000	33.452	21.994	11.5	198.0	55 51
10222.0	10222.0	10135.0	.90	97.777	33.452	21.994	11.5	198.0	55 51
10223.0	10223.0	10136.0	1.50	81.323	33.452	21.994	11.5	198.0	55 51
10224.0	10224.0	10137.0	1.40	86.917	33.452	21.994	11.5	198.0	55 51
10225.0	10225.0	10138.0	1.33	99.282	33.452	21.994	11.5	198.0	55 51
10226.0	10226.0	10139.0	.18	100.000	33.452	21.994	11.5	198.0	55 51
10227.0	10227.0	10140.0	.04	100.000	33.452	21.994	11.5	198.0	55 51
10228.0	10228.0	10141.0	.01	100.000	33.452	21.994	11.5	198.0	55 51
10229.0	10229.0	10142.0	.01	100.000	33.452	21.994	11.5	198.0	55 51
10230.0	10230.0	10143.0	.14	100.000	33.452	21.994	11.5	198.0	55 51

DEPTH	TVD	SUB-SEA DEPTH	POROSITY	SU	SUMMATION POR-FT	SUMMATION SU-FT	SUMMATION HPV	SUMMATION TVD	FAIL DISCRIMINATION
10231.0	10231.0	10144.0	.01	100.000	33.452	21.994	11.5	198.0	55 51
10232.0	10232.0	10145.0	.00	100.000	33.452	21.994	11.5	198.0	55 51
10233.0	10233.0	10146.0	.07	100.000	33.452	21.994	11.5	198.0	55 51
10234.0	10234.0	10147.0	.03	100.000	33.452	21.994	11.5	198.0	55 51
10235.0	10235.0	10148.0	.00	100.000	33.452	21.994	11.5	198.0	55 51
10236.0	10236.0	10149.0	.00	100.000	33.452	21.994	11.5	198.0	55 51
10237.0	10237.0	10150.0	.00	100.000	33.452	21.994	11.5	198.0	55 51
10238.0	10238.0	10151.0	.01	100.000	33.452	21.994	11.5	198.0	55 51
10239.0	10239.0	10152.0	.07	100.000	33.452	21.994	11.5	198.0	55 51
10240.0	10240.0	10153.0	.24	100.000	33.452	21.994	11.5	198.0	55 51
10241.0	10241.0	10154.0	.23	100.000	33.452	21.994	11.5	198.0	55 51
10242.0	10242.0	10155.0	.42	100.000	33.452	21.994	11.5	198.0	55 51
10243.0	10243.0	10156.0	.37	100.000	33.452	21.994	11.5	198.0	55 51
10244.0	10244.0	10157.0	.04	100.000	33.452	21.994	11.5	198.0	55 51
10245.0	10245.0	10158.0	.01	100.000	33.452	21.994	11.5	198.0	55 51
10246.0	10246.0	10159.0	.00	100.000	33.452	21.994	11.5	198.0	55 51
10247.0	10247.0	10160.0	.00	100.000	33.452	21.994	11.5	198.0	55 51
10248.0	10248.0	10161.0	.02	100.000	33.452	21.994	11.5	198.0	55 51
10249.0	10249.0	10162.0	.10	100.000	33.452	21.994	11.5	198.0	55 51
10250.0	10250.0	10163.0	.27	100.000	33.452	21.994	11.5	198.0	55 51
10251.0	10251.0	10164.0	.03	100.000	33.452	21.994	11.5	198.0	55 51
10252.0	10252.0	10165.0	.06	100.000	33.452	21.994	11.5	198.0	55 51
10253.0	10253.0	10166.0	1.08	100.000	33.452	21.994	11.5	198.0	55 51
10254.0	10254.0	10167.0	9.55	84.650	33.452	21.994	11.5	198.0	55 51
10255.0	10255.0	10168.0	6.96	100.000	33.452	21.994	11.5	198.0	55 51
10256.0	10256.0	10169.0	2.90	100.000	33.452	21.994	11.5	198.0	55 51
10257.0	10257.0	10170.0	1.21	100.000	33.452	21.994	11.5	198.0	55 51
10258.0	10258.0	10171.0	.06	100.000	33.452	21.994	11.5	198.0	55 51
10259.0	10259.0	10172.0	.58	100.000	33.452	21.994	11.5	198.0	55 51
10260.0	10260.0	10173.0	.37	100.000	33.452	21.994	11.5	198.0	55 51
10261.0	10261.0	10174.0	.11	100.000	33.452	21.994	11.5	198.0	55 51
10262.0	10262.0	10175.0	.02	100.000	33.452	21.994	11.5	198.0	55 51
10263.0	10263.0	10176.0	.04	100.000	33.452	21.994	11.5	198.0	55 51
10264.0	10264.0	10177.0	.10	100.000	33.452	21.994	11.5	198.0	55 51
10265.0	10265.0	10178.0	.55	100.000	33.452	21.994	11.5	198.0	55 51
10266.0	10266.0	10179.0	.55	100.000	33.452	21.994	11.5	198.0	55 51
10267.0	10267.0	10180.0	1.39	100.000	33.452	21.994	11.5	198.0	55 51
10268.0	10268.0	10181.0	3.36	100.000	33.452	21.994	11.5	198.0	55 51
10269.0	10269.0	10182.0	1.73	100.000	33.452	21.994	11.5	198.0	55 51
10270.0	10270.0	10183.0	.77	100.000	33.452	21.994	11.5	198.0	55 51
10271.0	10271.0	10184.0	3.04	100.000	33.452	21.994	11.5	198.0	55 51
10272.0	10272.0	10185.0	2.68	100.000	33.452	21.994	11.5	198.0	55 51
10273.0	10273.0	10186.0	.63	100.000	33.452	21.994	11.5	198.0	55 51
10274.0	10274.0	10187.0	1.77	100.000	33.452	21.994	11.5	198.0	55 51
10275.0	10275.0	10188.0	3.52	100.000	33.452	21.994	11.5	198.0	55 51
10276.0	10276.0	10189.0	6.08	100.000	33.452	21.994	11.5	198.0	55 51
10277.0	10277.0	10190.0	9.55	93.019	33.452	21.994	11.5	198.0	55 51
10278.0	10278.0	10191.0	10.18	92.037	33.452	21.994	11.5	198.0	55 51
10279.0	10279.0	10192.0	9.52	95.335	33.452	21.994	11.5	198.0	55 51
10280.0	10280.0	10193.0	5.36	100.000	33.452	21.994	11.5	198.0	55 51
10281.0	10281.0	10194.0	2.71	100.000	33.452	21.994	11.5	198.0	55 51
10282.0	10282.0	10195.0	4.01	100.000	33.452	21.994	11.5	198.0	55 51

DEPTH	TVD	SUB-SEA DEPTH	POROSITY	SW	SUMMATION POR-FT	SUMMATION SW-FT	SUMMATION	SUMMATION TVD	FAUL DISCONTINUATION
10283.0	10283.0	10196.0	5.12	100.000	33.452	21.994	11.5	198.0	55 51
10284.0	10284.0	10197.0	2.99	100.000	33.452	21.994	11.5	198.0	55 51
10285.0	10285.0	10198.0	2.72	100.000	33.452	21.994	11.5	198.0	55 51
10286.0	10286.0	10199.0	3.16	100.000	33.452	21.994	11.5	198.0	55 51
10287.0	10287.0	10200.0	4.97	100.000	33.452	21.994	11.5	198.0	55 51
10288.0	10288.0	10201.0	9.94	100.000	33.452	21.994	11.5	198.0	55
10289.0	10289.0	10202.0	14.52	85.006	33.597	22.118	11.5	199.0	
10290.0	10290.0	10203.0	15.37	94.960	33.751	22.264	11.5	200.0	
10291.0	10291.0	10204.0	12.08	100.000	33.872	22.385	11.5	201.0	
10292.0	10292.0	10205.0	5.43	100.000	33.872	22.385	11.5	201.0	55 51
10293.0	10293.0	10206.0	2.67	100.000	33.872	22.385	11.5	201.0	55 51
10294.0	10294.0	10207.0	3.06	100.000	33.872	22.385	11.5	201.0	55 51
10295.0	10295.0	10208.0	6.49	100.000	33.872	22.385	11.5	201.0	55 51
10296.0	10296.0	10209.0	6.84	100.000	33.872	22.385	11.5	201.0	55 51
10297.0	10297.0	10210.0	7.15	100.000	33.872	22.385	11.5	201.0	55 51
10298.0	10298.0	10211.0	10.46	91.940	33.872	22.385	11.5	201.0	55
10299.0	10299.0	10212.0	8.35	94.876	33.872	22.385	11.5	201.0	55 51
10300.0	10300.0	10213.0	13.47	78.055	34.006	22.490	11.5	202.0	
10301.0	10301.0	10214.0	15.95	70.164	34.166	22.602	11.6	203.0	
10302.0	10302.0	10215.0	8.63	88.973	34.166	22.602	11.6	203.0	55
10303.0	10303.0	10216.0	2.49	100.000	34.166	22.602	11.6	203.0	55 51
10304.0	10304.0	10217.0	2.36	100.000	34.166	22.602	11.6	203.0	55 51
10305.0	10305.0	10218.0	.23	100.000	34.166	22.602	11.6	203.0	55 51
10306.0	10306.0	10219.0	4.30	100.000	34.166	22.602	11.6	203.0	55 51
10307.0	10307.0	10220.0	12.54	79.212	34.291	22.701	11.6	204.0	
10308.0	10308.0	10221.0	15.54	75.137	34.447	22.818	11.6	205.0	
10309.0	10309.0	10222.0	14.72	90.677	34.594	22.951	11.6	206.0	
10310.0	10310.0	10223.0	2.06	100.000	34.594	22.951	11.6	206.0	55 51
10311.0	10311.0	10224.0	1.25	100.000	34.594	22.951	11.6	206.0	55 51
10312.0	10312.0	10225.0	4.91	100.000	34.594	22.951	11.6	206.0	55 51
10313.0	10313.0	10226.0	9.96	100.000	34.594	22.951	11.6	206.0	55
10314.0	10314.0	10227.0	14.45	100.000	34.738	23.096	11.6	207.0	
10315.0	10315.0	10228.0	12.16	90.680	34.860	23.206	11.7	208.0	
10316.0	10316.0	10229.0	7.73	100.000	34.860	23.206	11.7	208.0	55 51
10317.0	10317.0	10230.0	14.33	79.524	35.003	23.320	11.7	209.0	
10318.0	10318.0	10231.0	10.35	75.797	35.187	23.459	11.7	210.0	
10319.0	10319.0	10232.0	15.52	100.000	35.342	23.614	11.7	211.0	
10320.0	10320.0	10233.0	21.31	87.922	35.555	23.802	11.8	212.0	
10321.0	10321.0	10234.0	3.75	100.000	35.555	23.802	11.8	212.0	55 51
10322.0	10322.0	10235.0	12.31	82.851	35.678	23.904	11.8	213.0	
10323.0	10323.0	10236.0	19.03	74.749	35.868	24.046	11.8	214.0	
10324.0	10324.0	10237.0	18.22	80.680	36.051	24.193	11.9	215.0	
10325.0	10325.0	10238.0	5.41	100.000	36.051	24.193	11.9	215.0	55 51
10326.0	10326.0	10239.0	1.77	100.000	36.051	24.193	11.9	215.0	55 51
10327.0	10327.0	10240.0	2.15	100.000	36.051	24.193	11.9	215.0	55 51
10328.0	10328.0	10241.0	2.94	100.000	36.051	24.193	11.9	215.0	55 51
10329.0	10329.0	10242.0	1.53	100.000	36.051	24.193	11.9	215.0	55 51
10330.0	10330.0	10243.0	.85	100.000	36.051	24.193	11.9	215.0	55 51
10331.0	10331.0	10244.0	.20	100.000	36.051	24.193	11.9	215.0	55 51
10332.0	10332.0	10245.0	16.04	84.240	36.211	24.328	11.9	216.0	
10333.0	10333.0	10246.0	22.22	77.299	36.433	24.500	11.9	217.0	
10334.0	10334.0	10247.0	21.25	84.978	36.646	24.680	12.0	218.0	

DEPTH	TVD	SUB-SEA DEPTH	POROSITY	SW	SUMMATION POR-FT	SUMMATION SW-FT	SUMMATION HPV	SUMMATION TVD	FAIL DISCRIMINATION
10335.0	10335.0	10248.0	17.58	100.000	36.822	24.856	12.0	219.0	
10336.0	10336.0	10249.0	15.14	100.000	36.973	25.007	12.0	220.0	
10337.0	10337.0	10250.0	15.55	99.046	37.128	25.162	12.0	221.0	
10338.0	10338.0	10251.0	3.57	100.000	37.128	25.162	12.0	221.0	55 51
10339.0	10339.0	10252.0	9.45	100.000	37.128	25.162	12.0	221.0	55
10340.0	10340.0	10253.0	18.71	83.279	37.316	25.317	12.0	222.0	
10341.0	10341.0	10254.0	18.26	91.344	37.498	25.484	12.0	223.0	
10342.0	10342.0	10255.0	19.54	77.536	37.694	25.636	12.1	224.0	
10343.0	10343.0	10256.0	18.04	65.175	37.874	25.753	12.1	225.0	
10344.0	10344.0	10257.0	6.32	94.459	37.874	25.753	12.1	225.0	55 51
10345.0	10345.0	10258.0	.85	100.000	37.874	25.753	12.1	225.0	55 51
10346.0	10346.0	10259.0	.48	100.000	37.874	25.753	12.1	225.0	55 51
10347.0	10347.0	10260.0	.14	100.000	37.874	25.753	12.1	225.0	55 51
10348.0	10348.0	10261.0	.49	100.000	37.874	25.753	12.1	225.0	55 51
10349.0	10349.0	10262.0	1.94	100.000	37.874	25.753	12.1	225.0	55 51
10350.0	10350.0	10263.0	10.70	82.593	37.874	25.753	12.1	225.0	55
10351.0	10351.0	10264.0	17.65	65.264	38.050	25.868	12.2	226.0	
10352.0	10352.0	10265.0	1.15	100.000	38.050	25.868	12.2	226.0	55 51
10353.0	10353.0	10266.0	.16	100.000	38.050	25.868	12.2	226.0	55 51
10354.0	10354.0	10267.0	.05	100.000	38.050	25.868	12.2	226.0	55 51
10355.0	10355.0	10268.0	.04	100.000	38.050	25.868	12.2	226.0	55 51
10356.0	10356.0	10269.0	.60	100.000	38.050	25.868	12.2	226.0	55 51
10357.0	10357.0	10270.0	5.24	100.000	38.050	25.868	12.2	226.0	55 51
10358.0	10358.0	10271.0	16.68	77.122	38.217	25.997	12.2	227.0	
10359.0	10359.0	10272.0	18.69	70.795	38.484	26.129	12.3	228.0	
10360.0	10360.0	10273.0	12.77	76.563	38.532	26.227	12.3	229.0	
10361.0	10361.0	10274.0	3.07	100.000	38.532	26.227	12.3	229.0	55 51
10362.0	10362.0	10275.0	3.24	99.656	38.532	26.227	12.3	229.0	55 51
10363.0	10363.0	10276.0	14.14	62.891	38.673	26.316	12.4	230.0	
10364.0	10364.0	10277.0	8.30	79.374	38.673	26.316	12.4	230.0	55 51
10365.0	10365.0	10278.0	.66	100.000	38.673	26.316	12.4	230.0	55 51
10366.0	10366.0	10279.0	.13	100.000	38.673	26.316	12.4	230.0	55 51
10367.0	10367.0	10280.0	.03	100.000	38.673	26.316	12.4	230.0	55 51
10368.0	10368.0	10281.0	.03	100.000	38.673	26.316	12.4	230.0	55 51
10369.0	10369.0	10282.0	.07	100.000	38.673	26.316	12.4	230.0	55 51
10370.0	10370.0	10283.0	.16	100.000	38.673	26.316	12.4	230.0	55 51
10371.0	10371.0	10284.0	.06	100.000	38.673	26.316	12.4	230.0	55 51
10372.0	10372.0	10285.0	.02	100.000	38.673	26.316	12.4	230.0	55 51
10373.0	10373.0	10286.0	.18	100.000	38.673	26.316	12.4	230.0	55 51
10374.0	10374.0	10287.0	.82	100.000	38.673	26.316	12.4	230.0	55 51
10375.0	10375.0	10288.0	.64	100.000	38.673	26.316	12.4	230.0	55 51
10376.0	10376.0	10289.0	.61	100.000	38.673	26.316	12.4	230.0	55 51
10377.0	10377.0	10290.0	2.57	100.000	38.673	26.316	12.4	230.0	55 51
10378.0	10378.0	10291.0	2.23	100.000	38.673	26.316	12.4	230.0	55 51
10379.0	10379.0	10292.0	14.89	75.286	38.814	26.422	12.4	231.0	
10380.0	10380.0	10293.0	13.75	100.000	38.952	26.560	12.4	232.0	
10381.0	10381.0	10294.0	18.80	74.667	39.132	26.694	12.4	233.0	
10382.0	10382.0	10295.0	18.83	62.484	39.320	26.812	12.5	234.0	
10383.0	10383.0	10296.0	19.72	61.686	39.517	26.933	12.6	235.0	
10384.0	10384.0	10297.0	18.10	74.290	39.698	27.068	12.6	236.0	
10385.0	10385.0	10298.0	.89	100.000	39.698	27.068	12.6	236.0	55 51
10386.0	10386.0	10299.0	.69	100.000	39.698	27.068	12.6	236.0	55 51

DEPTH	TVD	SUB-SEA DEPTH	POROSITY	SU	SUMMATION POR-FT	SUMMATION SW-FT	SUMMATION M	SUMMATION TVD	FAIL DISCRIMINATION
10387.0	10387.0	10300.0	7.03	100.000	39.698	27.068	12.6	236.0	55 51
10388.0	10388.0	10301.0	6.25	90.412	39.698	27.068	12.6	236.0	55 51
10389.0	10389.0	10302.0	10.26	73.121	39.698	27.068	12.6	236.0	55
10390.0	10390.0	10303.0	12.44	76.172	39.823	27.162	12.7	237.0	
10391.0	10391.0	10304.0	15.79	68.584	39.981	27.271	12.7	238.0	
10392.0	10392.0	10305.0	18.75	63.789	40.168	27.390	12.8	239.0	
10393.0	10393.0	10306.0	20.59	60.641	40.374	27.515	12.9	240.0	
10394.0	10394.0	10307.0	18.72	62.005	40.561	27.631	12.9	241.0	
10395.0	10395.0	10308.0	11.02	79.171	40.561	27.631	12.9	241.0	55
10396.0	10396.0	10309.0	2.16	100.000	40.561	27.631	12.9	241.0	55 51
10397.0	10397.0	10310.0	.91	100.000	40.561	27.631	12.9	241.0	55 51
10398.0	10398.0	10311.0	8.90	100.000	40.561	27.631	12.9	241.0	55
10399.0	10399.0	10312.0	18.73	78.138	40.749	27.777	13.0	242.0	
10400.0	10400.0	10313.0	17.76	76.696	40.926	27.914	13.0	243.0	
10401.0	10401.0	10314.0	15.72	73.171	41.083	28.029	13.1	244.0	
10402.0	10402.0	10315.0	4.49	95.198	41.083	28.029	13.1	244.0	55 51
10403.0	10403.0	10316.0	1.02	100.000	41.083	28.029	13.1	244.0	55 51
10404.0	10404.0	10317.0	1.68	100.000	41.083	28.029	13.1	244.0	55 51
10405.0	10405.0	10318.0	4.16	100.000	41.083	28.029	13.1	244.0	55 51
10406.0	10406.0	10319.0	3.33	100.000	41.083	28.029	13.1	244.0	55 51
10407.0	10407.0	10320.0	2.53	100.000	41.083	28.029	13.1	244.0	55 51
10408.0	10408.0	10321.0	12.59	69.251	41.289	28.116	13.1	245.0	
10409.0	10409.0	10322.0	20.47	63.470	41.414	28.246	13.2	246.0	
10410.0	10410.0	10323.0	18.54	64.123	41.599	28.365	13.2	247.0	
10411.0	10411.0	10324.0	6.87	95.779	41.599	28.365	13.2	247.0	55 51
10412.0	10412.0	10325.0	3.95	100.000	41.599	28.365	13.2	247.0	55 51
10413.0	10413.0	10326.0	1.31	100.000	41.599	28.365	13.2	247.0	55 51
10414.0	10414.0	10327.0	12.45	75.112	41.724	28.458	13.3	248.0	
10415.0	10415.0	10328.0	18.09	45.870	41.905	28.541	13.4	249.0	
10416.0	10416.0	10329.0	18.44	45.141	42.089	28.624	13.5	250.0	
10417.0	10417.0	10330.0	18.75	64.696	42.277	28.746	13.5	251.0	
10418.0	10418.0	10331.0	16.55	79.859	42.442	28.878	13.6	252.0	
10419.0	10419.0	10332.0	17.31	45.758	42.615	28.957	13.7	253.0	
10420.0	10420.0	10333.0	5.69	90.420	42.615	28.957	13.7	253.0	55 51
10421.0	10421.0	10334.0	8.45	100.000	42.615	28.957	13.7	253.0	55
10422.0	10422.0	10335.0	.45	100.000	42.615	28.957	13.7	253.0	55 51
10423.0	10423.0	10336.0	.09	100.000	42.615	28.957	13.7	253.0	55 51
10424.0	10424.0	10337.0	15.23	84.428	42.767	29.086	13.7	254.0	
10425.0	10425.0	10338.0	12.44	94.980	42.892	29.204	13.7	255.0	
10426.0	10426.0	10339.0	14.68	48.473	43.039	29.275	13.8	256.0	
10427.0	10427.0	10340.0	14.89	46.839	43.188	29.345	13.8	257.0	
10428.0	10428.0	10341.0	20.17	51.779	43.389	29.449	13.9	258.0	
10429.0	10429.0	10342.0	13.81	82.903	43.519	29.557	14.0	259.0	
10430.0	10430.0	10343.0	2.62	100.000	43.519	29.557	14.0	259.0	55 51
10431.0	10431.0	10344.0	2.88	100.000	43.519	29.557	14.0	259.0	55 51
10432.0	10432.0	10345.0	1.01	100.000	43.519	29.557	14.0	259.0	55 51
10433.0	10433.0	10346.0	.07	100.000	43.519	29.557	14.0	259.0	55 51
10434.0	10434.0	10347.0	.10	100.000	43.519	29.557	14.0	259.0	55 51
10435.0	10435.0	10348.0	.18	100.000	43.519	29.557	14.0	259.0	55 51
10436.0	10436.0	10349.0	18.54	100.000	43.785	29.742	14.0	260.0	
10437.0	10437.0	10350.0	20.80	100.000	43.913	29.950	14.0	261.0	
10438.0	10438.0	10351.0	20.32	100.000	44.116	30.154	14.0	262.0	



DEPTH	TVD	SUB-SEA DEPTH	POROSITY	SW	SUMMATION POR-FT	SUMMATION SW-FT	SUMMATION HPV	SUMMATION TVD	FAIL DISCRIMINATION
10439.0	10439.0	10352.0	21.50	100.000	44.331	30.369	14.0	263.0	
10440.0	10440.0	10353.0	22.39	100.000	44.555	30.592	14.0	264.0	
10441.0	10441.0	10354.0	25.00	100.000	44.885	30.842	14.0	265.0	
10442.0	10442.0	10355.0	25.00	100.000	45.055	31.092	14.0	266.0	
10443.0	10443.0	10356.0	22.50	100.000	45.288	31.317	14.0	267.0	
10444.0	10444.0	10357.0	17.76	100.000	45.457	31.495	14.0	268.0	
10445.0	10445.0	10358.0	10.70	100.000	45.457	31.495	14.0	268.0	55
10446.0	10446.0	10359.0	14.31	100.000	45.601	31.638	14.0	269.0	
10447.0	10447.0	10360.0	10.05	100.000	45.781	31.819	14.0	270.0	
10448.0	10448.0	10361.0	19.50	96.926	45.976	32.008	14.0	271.0	
10449.0	10449.0	10362.0	21.07	88.977	46.187	32.195	14.0	272.0	
10450.0	10450.0	10363.0	23.16	87.990	46.410	32.399	14.0	273.0	
10451.0	10451.0	10364.0	23.52	84.610	46.653	32.598	14.1	274.0	
10452.0	10452.0	10365.0	16.20	100.000	46.816	32.761	14.1	275.0	
10453.0	10453.0	10366.0	17.78	103.66	46.994	32.919	14.1	276.0	
10454.0	10454.0	10367.0	10.87	80.838	47.183	33.071	14.1	277.0	
10455.0	10455.0	10368.0	16.47	88.725	47.347	33.217	14.1	278.0	
10456.0	10456.0	10369.0	14.89	100.000	47.496	33.366	14.1	279.0	
10457.0	10457.0	10370.0	13.53	100.000	47.632	33.502	14.1	280.0	
10458.0	10458.0	10371.0	15.68	90.326	47.788	33.643	14.1	281.0	
10459.0	10459.0	10372.0	17.39	66.297	47.962	33.758	14.2	282.0	
10460.0	10460.0	10373.0	11.71	93.458	47.962	33.758	14.2	282.0	55
10461.0	10461.0	10374.0	9.77	100.000	47.962	33.758	14.2	282.0	55
10462.0	10462.0	10375.0	15.88	87.804	48.121	33.898	14.2	283.0	
10463.0	10463.0	10376.0	18.80	54.944	48.309	34.001	14.3	284.0	
10464.0	10464.0	10377.0	16.23	64.871	48.471	34.105	14.4	285.0	
10465.0	10465.0	10378.0	15.52	71.657	48.627	34.216	14.4	286.0	
10466.0	10466.0	10379.0	17.67	72.863	48.803	34.344	14.5	287.0	
10467.0	10467.0	10380.0	17.65	47.720	48.980	34.428	14.6	288.0	
10468.0	10468.0	10381.0	11.29	62.757	48.980	34.428	14.6	288.0	55
10469.0	10469.0	10382.0	12.92	94.488	49.109	34.550	14.6	289.0	
10470.0	10470.0	10383.0	13.95	73.217	49.248	34.652	14.6	290.0	
10471.0	10471.0	10384.0	5.84	92.732	49.248	34.652	14.6	290.0	55 51
10472.0	10472.0	10385.0	.24	100.000	49.248	34.652	14.6	290.0	55 51
10473.0	10473.0	10386.0	5.24	100.000	49.248	34.652	14.6	290.0	55 51
10474.0	10474.0	10387.0	5.58	100.000	49.248	34.652	14.6	290.0	55 51
10475.0	10475.0	10388.0	2.56	100.000	49.248	34.652	14.6	290.0	55 51
10476.0	10476.0	10389.0	1.66	100.000	49.248	34.652	14.6	290.0	55 51
10477.0	10477.0	10390.0	2.02	100.000	49.248	34.652	14.6	290.0	55 51
10478.0	10478.0	10391.0	1.20	100.000	49.248	34.652	14.6	290.0	55 51
10479.0	10479.0	10392.0	1.13	100.000	49.248	34.652	14.6	290.0	55 51
10480.0	10480.0	10393.0	1.89	100.000	49.248	34.652	14.6	290.0	55 51
10481.0	10481.0	10394.0	4.93	100.000	49.248	34.652	14.6	290.0	55 51
10482.0	10482.0	10395.0	4.53	100.000	49.248	34.652	14.6	290.0	55 51
10483.0	10483.0	10396.0	1.07	100.000	49.248	34.652	14.6	290.0	55 51
10484.0	10484.0	10397.0	.30	100.000	49.248	34.652	14.6	290.0	55 51
10485.0	10485.0	10398.0	.10	100.000	49.248	34.652	14.6	290.0	55 51
10486.0	10486.0	10399.0	.10	100.000	49.248	34.652	14.6	290.0	55 51
10487.0	10487.0	10400.0	.23	100.000	49.248	34.652	14.6	290.0	55 51
10488.0	10488.0	10401.0	.46	100.000	49.248	34.652	14.6	290.0	55 51
10489.0	10489.0	10402.0	1.01	100.000	49.248	34.652	14.6	290.0	55 51

DEPTH	TVD	SUB-SEA DEPTH	POROSITY	SU	SUMMATION POR-FT	SUMMATION SU-FT	SUMMATION HPV	SUMMATION TVD	FAIL	DISCRIMINATION
10491.0	10491.0	10494.0	2.07	100.000	49.248	34.652	14.6	290.0	55	51
10492.0	10492.0	10495.0	.46	100.000	49.248	34.652	14.6	290.0	55	51
10493.0	10493.0	10496.0	.74	100.000	49.248	34.652	14.6	290.0	55	51
10494.0	10494.0	10497.0	3.09	96.379	49.248	34.652	14.6	290.0	55	51
10495.0	10495.0	10498.0	11.64	77.926	49.248	34.652	14.6	290.0	55	
10496.0	10496.0	10499.0	11.35	78.458	49.248	34.652	14.6	290.0	55	
10497.0	10497.0	10410.0	2.91	100.000	49.248	34.652	14.6	290.0	55	51
10498.0	10498.0	10411.0	1.21	100.000	49.248	34.652	14.6	290.0	55	51
10499.0	10499.0	10412.0	.51	100.000	49.248	34.652	14.6	290.0	55	51
10500.0	10500.0	10413.0	.27	100.000	49.248	34.652	14.6	290.0	55	51
10501.0	10501.0	10414.0	.26	100.000	49.248	34.652	14.6	290.0	55	51
10502.0	10502.0	10415.0	1.26	100.000	49.248	34.652	14.6	290.0	55	51
10503.0	10503.0	10416.0	5.10	100.000	49.248	34.652	14.6	290.0	55	51
10504.0	10504.0	10417.0	9.77	100.000	49.248	34.652	14.6	290.0	55	
10505.0	10505.0	10418.0	12.10	85.178	49.369	34.755	14.6	291.0		
10506.0	10506.0	10419.0	2.65	100.000	49.369	34.755	14.6	291.0	55	51
10507.0	10507.0	10420.0	.52	100.000	49.369	34.755	14.6	291.0	55	51
10508.0	10508.0	10421.0	.15	100.000	49.369	34.755	14.6	291.0	55	51
10509.0	10509.0	10422.0	1.79	100.000	49.369	34.755	14.6	291.0	55	51
10510.0	10510.0	10423.0	11.23	82.897	49.369	34.755	14.6	291.0	55	
10511.0	10511.0	10424.0	7.16	100.000	49.369	34.755	14.6	291.0	55	
10512.0	10512.0	10425.0	9.20	100.000	49.369	34.755	14.6	291.0	55	
10513.0	10513.0	10426.0	10.65	100.000	49.369	34.755	14.6	291.0	55	
10514.0	10514.0	10427.0	12.10	100.000	49.490	34.876	14.6	292.0		
10515.0	10515.0	10428.0	9.02	98.216	49.490	34.876	14.6	292.0	55	
10516.0	10516.0	10429.0	3.34	100.000	49.490	34.876	14.6	292.0	55	51
10517.0	10517.0	10430.0	12.57	83.854	49.616	34.982	14.6	293.0		
10518.0	10518.0	10431.0	8.78	100.000	49.616	34.982	14.6	293.0	55	
10519.0	10519.0	10432.0	8.91	100.000	49.616	34.982	14.6	293.0	55	
10520.0	10520.0	10433.0	9.67	94.320	49.616	34.982	14.6	293.0	55	
10521.0	10521.0	10434.0	9.64	86.740	49.616	34.982	14.6	293.0	55	
10522.0	10522.0	10435.0	7.91	95.893	49.616	34.982	14.6	293.0	55	
10523.0	10523.0	10436.0	7.40	100.000	49.616	34.982	14.6	293.0	55	
10524.0	10524.0	10437.0	7.76	100.000	49.616	34.982	14.6	293.0	55	
10525.0	10525.0	10438.0	10.07	88.972	49.616	34.982	14.6	293.0	55	
10526.0	10526.0	10439.0	4.99	93.517	49.616	34.982	14.6	293.0	55	51
10527.0	10527.0	10440.0	6.39	84.959	49.616	34.982	14.6	293.0	55	51
10528.0	10528.0	10441.0	7.88	90.373	49.616	34.982	14.6	293.0	55	51
10529.0	10529.0	10442.0	9.80	91.856	49.616	34.982	14.6	293.0	55	
10530.0	10530.0	10443.0	8.01	89.118	49.616	34.982	14.6	293.0	55	51
10531.0	10531.0	10444.0	15.20	62.330	49.769	35.077	14.7	294.0		
10532.0	10532.0	10445.0	13.87	100.000	49.908	35.216	14.7	295.0		
10533.0	10533.0	10446.0	10.31	100.000	49.908	35.216	14.7	295.0	55	
10534.0	10534.0	10447.0	11.89	100.000	49.908	35.216	14.7	295.0	55	
10535.0	10535.0	10448.0	13.16	83.371	50.039	35.325	14.7	296.0		
10536.0	10536.0	10449.0	16.31	68.598	50.202	35.437	14.8	297.0		
10537.0	10537.0	10450.0	11.70	79.382	50.202	35.437	14.8	297.0	55	
10538.0	10538.0	10451.0	8.07	100.000	50.202	35.437	14.8	297.0	55	51
10539.0	10539.0	10452.0	2.29	100.000	50.202	35.437	14.8	297.0	55	51
10540.0	10540.0	10453.0	1.26	100.000	50.202	35.437	14.8	297.0	55	51
10541.0	10541.0	10454.0	2.03	100.000	50.202	35.437	14.8	297.0	55	51
10542.0	10542.0	10455.0	1.54	100.000	50.202	35.437	14.8	297.0	55	51

DEPTH	TVD	SUB-SEA DEPTH	POROSITY	SU	SUMMATION POR-FT	SUMMATION SW-FT	SUMMATION K	SUMMATION TVD	FAIL DISCRIMINATION
10543.0	10543.0	10456.0	1.40	100.000	50.202	35.437	14.0	297.0	55 51
10544.0	10544.0	10457.0	3.20	100.000	50.202	35.437	14.0	297.0	55 51
10545.0	10545.0	10458.0	0.72	100.000	50.202	35.437	14.0	297.0	55
10546.0	10546.0	10459.0	9.86	100.000	50.202	35.437	14.0	297.0	55
10547.0	10547.0	10460.0	11.76	100.000	50.202	35.437	14.0	297.0	55
10548.0	10548.0	10461.0	13.10	100.000	50.333	35.568	14.0	298.0	
10549.0	10549.0	10462.0	11.90	100.000	50.333	35.568	14.0	298.0	55
10550.0	10550.0	10463.0	14.56	100.000	50.479	35.714	14.0	299.0	
10551.0	10551.0	10464.0	17.92	100.000	50.658	35.893	14.0	300.0	
10552.0	10552.0	10465.0	10.27	100.000	50.841	36.076	14.0	301.0	
10553.0	10553.0	10466.0	18.17	100.000	51.023	36.257	14.0	302.0	
10554.0	10554.0	10467.0	17.35	100.000	51.196	36.431	14.0	303.0	
10555.0	10555.0	10468.0	16.30	100.000	51.359	36.594	14.0	304.0	
10556.0	10556.0	10469.0	14.83	100.000	51.507	36.742	14.0	305.0	
10557.0	10557.0	10470.0	13.84	100.000	51.646	36.881	14.0	306.0	
10558.0	10558.0	10471.0	13.19	100.000	51.778	37.013	14.0	307.0	
10559.0	10559.0	10472.0	11.09	100.000	51.778	37.013	14.0	307.0	55
10560.0	10560.0	10473.0	13.93	95.340	51.917	37.145	14.0	308.0	
10561.0	10561.0	10474.0	14.48	84.824	52.062	37.267	14.0	309.0	
10562.0	10562.0	10475.0	10.69	100.000	52.062	37.267	14.0	309.0	55
10563.0	10563.0	10476.0	8.66	100.000	52.062	37.267	14.0	309.0	55
10564.0	10564.0	10477.0	7.35	100.000	52.062	37.267	14.0	309.0	55

RESERVOIR SUMMARY

OPTION #3

DISK WELL ID: 102

10:00 AM WED., 4 JULY, 1979

API NUMBER 820309006000
 OPERATOR PHILLIPS PETROLEUM CO.
 LEASE & TRACT 7/11
 WELL NUMBER 2X
 ELEVATION 87.00

CHANNELS (ZERO = NOT NEEDED FOR THIS OPTION)

TVD	VSH	POR	SW	PAY
1	0	55	60	66

ZONE	TOP	BASE	NET PAY	POR-FT	HPV	AVG. SW	AVG. POR.E.	*****DISCRIMINATION*****		
								CHANNEL	MINIMUM	MAXIMUM
1	9786.0	10564.0	309.0	52.062	14.795	71.582	16.848	55 51	12.0 .0	100.0 40.0

TOTAL ZONE SUMMARY: 309.0 52.062 14.795 71.582 16.848

API NUMBER 820309006000
 OPERATOR PHILLIPS PETROLEUM CO.
 LEASE & TRACT 7/11
 WELL NUMBER 2X
 ELEVATION 87.00

CHANNELS (ZERO = NOT NEEDED FOR THIS OPTION)
 TVD VSH POR SW PAY
 1 0 55 60 66

ZONE CODE	ZONE NAME	TOP	BASE
2	PALEOCENE	9786.0	10564.0

DISCRIMINATION CHANNELS	MINIMUM	MAXIMUM	NAME AND UNITS
55	12.0	100.0	POR E %
60	.0	50.0	SW %
51	.0	40.0	VSH %

DEPTH	TVD	SUB-SEA DEPTH	POROSITY	SW	SUMMATION POR-FT	SUMMATION SW-FT	SUMMATION HPV	SUMMATION TVD	FAIL DISCRIMINATION
9999.0	9999.0	9912.00	21.03	46.093	.210	.097	.1	1.0	
10000.0	10000.0	9913.00	18.74	47.501	.398	.186	.2	2.0	
10043.0	10043.0	9956.00	17.60	42.363	.574	.261	.3	3.0	
10044.0	10044.0	9957.00	15.90	46.555	.733	.335	.4	4.0	
10050.0	10050.0	9963.00	19.24	48.615	.925	.428	.5	5.0	
10051.0	10051.0	9964.00	17.90	47.147	1.104	.513	.6	6.0	
10052.0	10052.0	9965.00	16.63	44.473	1.270	.587	.7	7.0	
10053.0	10053.0	9966.00	15.41	41.599	1.425	.651	.8	8.0	
10054.0	10054.0	9967.00	15.46	42.527	1.579	.716	.9	9.0	
10055.0	10055.0	9968.00	16.51	47.610	1.744	.795	.9	10.0	
10064.0	10064.0	9977.00	12.25	45.702	1.867	.851	1.0	11.0	
10065.0	10065.0	9978.00	17.67	42.221	2.043	.926	1.1	12.0	
10066.0	10066.0	9979.00	21.14	43.672	2.255	1.010	1.2	13.0	
10067.0	10067.0	9980.00	18.49	49.325	2.440	1.107	1.3	14.0	
10068.0	10068.0	9981.00	17.42	47.988	2.614	1.191	1.4	15.0	
10069.0	10069.0	9982.00	16.68	44.434	2.781	1.265	1.5	16.0	
10070.0	10070.0	9983.00	17.59	43.578	2.957	1.342	1.6	17.0	
10071.0	10071.0	9984.00	18.05	41.734	3.137	1.417	1.7	18.0	
10072.0	10072.0	9985.00	16.54	44.396	3.303	1.490	1.8	19.0	
10073.0	10073.0	9986.00	16.28	49.571	3.465	1.571	1.9	20.0	
10415.0	10415.0	10328.0	18.09	45.070	3.646	1.654	2.0	21.0	
10416.0	10416.0	10329.0	18.44	45.141	3.831	1.737	2.1	22.0	

DEPTH	TVD	SUB-SEA DEPTH	POROSITY	SU	SUPERATION POR-FT	SUPERATION SU-FT	SUPERATION MPY	SUPERATION TVD	FAO. DISCRIMINATION
10419.0	10419.0	10332.0	17.31	45.750	4.004	1.817	2.2	23.0	
10426.0	10426.0	10339.0	14.60	40.473	4.151	1.800	2.3	24.0	
10427.0	10427.0	10340.0	14.89	46.839	4.299	1.957	2.3	25.0	
10467.0	10467.0	10380.0	17.65	47.720	4.476	2.042	2.4	26.0	

RESERVOIR SUMMARY

OPTION #3

DISK WELL ID: 102

10:26 AM WED., 4 JULY, 1979

API NUMBER 820309006000
 OPERATOR PHILLIPS PETROLEUM CO.
 LEASE & TRACT 7/11
 WELL NUMBER 2X
 ELEVATION 87.00

CHANNELS (ZERO = NOT NEEDED FOR THIS OPTION)

TVD	VSH	POR	SW	PAY
1	0	55	60	66

ZONE	TOP	BASE	NET PAY	POR-FT	HPV	AVG. SW	AVG. POR, E.	*****DISCRIMINATION*****		
								CHANNEL	MINIMUM	MAXIMUM
2	9786.0	10564.0	26.0	4.476	2.434	45.615	17.215	55	12.0	100.0
								60	.0	50.0
								51	.0	40.0

TOTAL ZONE SUMMARY: 26.0 4.476 2.434 45.615 17.215

PHILLIPS PETROLEUM CO. 7/11

1	23	24	2X	32	(102)	INT	61	40	41	62	1
DEPTH FEET	FDC-C GM/CC	NEUTRON C %	RMLL(C) OHM-M	RT OHM/M	GR C API U.	VSH %	SXO %	BVJ %	BVSXO %	DEN(MA) GM/CC	DEPTH FEET
9786.000	2.340	37.008	.451	.574	78.263	56.269	100.000	.726	.726	2.658	9786.
9787.000	2.446	32.744	.760	.632	75.256	51.848	100.000	1.598	1.598	2.949	9787.
9788.000	2.478	27.757	.684	.758	72.151	47.282	100.000	3.290	3.290	3.000	9788.
9789.000	2.487	26.002	.822	.865	68.812	42.371	100.000	6.390	6.390	3.000	9789.
9790.000	2.463	27.015	1.005	.907	76.761	54.061	100.000	1.088	1.088	3.000	9790.
9791.000	2.443	29.163	.885	.667	74.005	50.007	100.000	2.162	2.162	2.938	9791.
9792.000	2.449	27.150	.774	.800	75.691	52.487	100.000	1.433	1.433	2.958	9792.
9793.000	2.475	25.909	.860	.825	80.595	59.699	100.000	.371	.371	3.000	9793.
9794.000	2.493	23.940	1.028	.799	80.049	58.896	100.000	.436	.436	3.000	9794.
9795.000	2.498	24.713	1.091	.546	73.138	48.732	100.000	2.643	2.643	3.000	9795.
9796.000	2.472	25.548	1.066	.620	66.961	39.649	100.000	8.738	8.738	2.991	9796.
9797.000	2.473	25.310	.978	.692	59.917	29.289	100.000	17.678	17.678	2.977	9797.
9798.000	2.449	24.278	.945	.678	54.458	21.257	100.000	19.082	19.082	2.906	9798.
9799.000	2.466	23.904	1.031	1.133	58.236	26.817	95.965	14.304	16.866	2.946	9799.
9800.000	2.462	25.169	1.130	1.144	64.814	36.491	98.015	10.758	11.648	2.969	9800.
9801.000	2.462	27.208	.996	.948	73.837	49.760	100.000	2.250	2.250	2.989	9801.
9802.000	2.487	27.578	.846	.815	83.534	64.021	100.000	.149	.149	3.000	9802.
9803.000	2.477	26.919	.768	.736	73.626	49.449	100.000	2.363	2.363	3.000	9803.
9804.000	2.450	28.109	.763	.952	66.714	39.286	100.000	9.081	9.081	2.942	9804.
9805.000	2.436	28.048	.785	.814	62.535	33.139	99.420	14.830	15.179	2.910	9805.
9806.000	2.441	28.868	.791	.308	55.527	22.834	100.000	19.292	19.292	2.913	9806.
9807.000	2.446	29.529	.778	.703	52.547	18.452	100.000	20.387	20.387	2.920	9807.
9808.000	2.420	28.308	.753	.941	61.945	32.272	97.646	14.240	15.664	2.884	9808.
9809.000	2.478	28.086	.847	.794	62.916	33.700	99.935	14.685	14.723	2.897	9809.
9810.000	2.427	30.613	.982	.659	55.043	22.122	100.000	19.469	19.469	2.888	9810.
9811.000	2.461	29.063	.919	.627	53.339	19.617	100.000	20.096	20.096	2.895	9811.
9812.000	2.485	27.852	.722	.932	47.268	10.676	98.076	20.263	21.901	2.860	9812.
9813.000	2.399	29.188	.667	.913	43.831	5.634	98.470	21.841	23.230	2.851	9813.
9814.000	2.451	27.812	1.090	.970	41.744	2.564	97.953	21.966	23.860	2.925	9814.
9815.000	2.474	25.884	2.196	1.037	41.394	2.850	97.674	21.319	23.423	2.943	9815.
9816.000	2.459	27.470	2.434	1.062	43.003	4.416	97.030	20.552	23.186	2.940	9816.
9817.000	2.428	30.153	1.685	.997	44.821	7.890	97.557	20.526	22.660	2.896	9817.
9818.000	2.392	28.891	1.071	1.182	42.871	4.222	96.000	19.524	22.987	2.848	9818.
9819.000	2.395	28.548	.811	1.242	40.244	.359	95.598	19.889	23.814	2.855	9819.
9820.000	2.388	30.998	.719	1.227	42.601	3.826	95.651	19.251	22.998	2.844	9820.
9821.000	2.375	30.805	.711	1.193	46.781	9.973	95.705	18.071	21.540	2.822	9821.
9822.000	2.357	30.486	.715	1.255	48.338	12.250	95.133	17.094	20.870	2.794	9822.
9823.000	2.365	29.312	.788	1.312	50.147	14.922	94.595	16.110	20.120	2.806	9823.
9824.000	2.403	27.224	.837	1.383	52.212	17.959	93.961	15.021	19.272	2.865	9824.
9825.000	2.427	23.668	1.134	1.161	57.879	25.116	95.599	14.597	17.476	2.886	9825.
9826.000	2.435	22.822	1.853	1.214	62.529	33.130	95.577	12.183	14.600	2.886	9826.
9827.000	2.439	24.690	1.948	1.041	69.757	43.761	100.000	5.362	5.362	2.921	9827.
9828.000	2.413	25.946	1.348	1.187	66.028	38.264	98.795	9.484	9.956	2.866	9828.
9829.000	2.399	25.207	.922	1.123	65.064	36.859	98.416	10.621	11.322	2.838	9829.
9830.000	2.415	23.931	.819	.893	76.347	53.451	100.000	1.212	1.212	2.863	9830.
9831.000	2.448	22.448	.920	.285	110.659	100.000	100.000	.000	.000	2.950	9831.
9832.000	2.451	20.881	.955	.642	113.135	100.000	100.000	.000	.000	2.950	9832.
9833.000	2.462	20.998	.935	.610	114.672	100.000	100.000	.000	.000	2.950	9833.
9834.000	2.476	21.088	.956	.591	106.788	98.888	100.000	.000	.000	3.000	9834.
9835.000	2.487	21.396	.912	.892	95.157	81.113	100.000	.002	.002	3.000	9835.
9836.000	2.471	22.553	.788	.850	112.922	100.000	100.000	.000	.000	2.950	9836.
9837.000	2.462	22.472	.773	.681	125.687	100.000	100.000	.000	.000	2.950	9837.

PHILLIPS PETROLEUM CO. 7/11

1	23	24	25	32	(102)	51	61	40	41	62	1
DEPTH FEET	FDC-C GM/CC	NEUTRON %	RML(C) OHM-M	RT OHM/M	GR C API U.	VSH %	SXO %	BYU %	BVSXO %	DEN(MA) GM/CC	DEPTH FEET
9838.000	2.473	23.778	.886	.402	122.209	100.000	100.000	.000	.000	2.950	9838.000
9839.000	2.491	24.122	.959	.368	117.450	100.000	100.000	.000	.000	2.950	9839.000
9840.000	2.503	24.004	.901	.360	115.311	100.000	100.000	.000	.000	2.950	9840.000
9841.000	2.484	25.815	.878	.358	109.025	100.000	100.000	.000	.000	2.950	9841.000
9842.000	2.477	24.319	.895	.358	99.455	87.433	100.000	.000	.000	3.000	9842.000
9843.000	2.473	24.096	.838	.361	88.119	70.763	100.000	.031	.031	3.000	9843.000
9844.000	2.456	22.402	.869	.364	80.526	71.362	100.000	.026	.026	3.000	9844.000
9845.000	2.452	22.256	.977	.372	90.935	74.904	100.000	.010	.010	3.000	9845.000
9846.000	2.469	23.110	1.018	.397	102.521	91.943	100.000	.000	.000	3.000	9846.000
9847.000	2.450	23.524	1.010	.457	106.864	98.330	100.000	.000	.000	3.000	9847.000
9848.000	2.442	23.330	1.005	.548	110.345	100.000	100.000	.000	.000	2.950	9848.000
9849.000	2.447	25.001	1.083	.624	106.973	98.490	100.000	.000	.000	3.000	9849.000
9850.000	2.441	23.936	1.030	.916	95.918	82.232	100.000	.001	.001	3.000	9850.000
9851.000	2.451	22.854	1.110	1.008	92.424	77.094	100.000	.006	.006	3.000	9851.000
9852.000	2.459	21.786	1.118	1.055	93.488	78.530	100.000	.004	.004	3.000	9852.000
9853.000	2.443	21.141	1.077	1.131	86.569	68.484	100.000	.053	.053	2.907	9853.000
9854.000	2.441	22.701	1.097	1.090	88.926	68.186	100.000	.336	.336	2.946	9854.000
9855.000	2.447	21.321	1.127	.933	76.244	53.300	100.000	1.245	1.245	2.877	9855.000
9856.000	2.461	21.252	1.141	.728	71.316	46.053	100.000	3.929	3.929	2.883	9856.000
9857.000	2.470	22.387	1.005	.652	68.804	42.359	100.000	6.400	6.400	2.929	9857.000
9858.000	2.477	22.084	.856	.647	74.262	58.386	100.000	2.035	2.035	2.957	9858.000
9859.000	2.463	21.385	.991	.902	92.106	61.921	100.000	.234	.234	2.949	9859.000
9860.000	2.476	19.934	1.233	.879	88.936	71.964	100.000	.023	.023	2.950	9860.000
9861.000	2.462	19.228	1.269	.613	87.265	69.507	100.000	.042	.042	2.858	9861.000
9862.000	2.442	19.728	1.276	.610	85.236	66.524	100.000	.084	.084	2.821	9862.000
9863.000	2.435	20.647	1.271	.603	82.129	61.955	100.000	.233	.233	2.839	9863.000
9864.000	2.447	20.387	1.211	.601	82.644	62.711	100.000	.198	.198	2.857	9864.000
9865.000	2.455	19.283	1.289	.603	83.305	63.684	100.000	.160	.160	2.832	9865.000
9866.000	2.468	20.614	1.338	.596	87.164	69.359	100.000	.043	.043	2.951	9866.000
9867.000	2.452	20.329	1.253	.587	88.589	71.454	100.000	.026	.026	2.893	9867.000
9868.000	2.458	20.487	1.210	.265	85.418	66.792	100.000	.079	.079	2.902	9868.000
9869.000	2.484	21.459	1.190	.908	82.356	62.288	100.000	.217	.217	3.000	9869.000
9870.000	2.501	20.497	1.139	.819	79.174	57.688	100.000	.562	.562	2.965	9870.000
9871.000	2.486	19.830	1.241	.839	74.137	58.201	100.000	2.096	2.096	2.888	9871.000
9872.000	2.478	19.152	1.353	.972	78.771	45.251	100.000	4.393	4.393	2.846	9872.000
9873.000	2.480	19.128	1.415	.648	67.991	41.163	100.000	7.388	7.388	2.844	9873.000
9874.000	2.499	18.647	1.469	.703	67.231	40.046	100.000	8.370	8.370	2.858	9874.000
9875.000	2.497	19.407	1.506	1.096	71.177	45.849	100.000	4.043	4.043	2.886	9875.000
9876.000	2.483	19.045	1.513	.643	68.324	41.653	100.000	6.968	6.968	2.847	9876.000
9877.000	2.482	17.858	1.532	.881	78.585	44.977	100.000	4.561	4.561	2.817	9877.000
9878.000	2.463	18.864	1.584	1.045	78.975	57.315	100.000	.595	.595	2.797	9878.000
9879.000	2.460	18.839	1.610	1.131	84.122	64.886	100.000	.123	.123	2.825	9879.000
9880.000	2.473	19.718	1.622	1.336	84.569	65.543	100.000	.106	.106	2.899	9880.000
9881.000	2.468	18.990	1.844	1.363	88.989	72.043	100.000	.022	.022	2.870	9881.000
9882.000	2.470	18.831	2.027	1.077	92.272	76.871	100.000	.006	.006	2.887	9882.000
9883.000	2.477	20.105	1.697	1.009	93.254	78.314	100.000	.004	.004	3.000	9883.000
9884.000	2.464	20.227	1.402	.888	90.246	73.892	100.000	.014	.014	2.940	9884.000
9885.000	2.460	19.239	1.397	1.203	85.648	67.129	100.000	.073	.073	2.848	9885.000
9886.000	2.439	18.831	1.227	1.059	76.228	53.276	100.000	1.250	1.250	2.775	9886.000
9887.000	2.455	19.410	.788	1.208	66.636	39.171	99.197	8.827	9.117	2.815	9887.000
9888.000	2.450	17.646	2.179	.929	69.651	43.605	100.000	5.472	5.472	2.761	9888.000
9889.000	2.457	18.374	4.019	.832	76.738	54.014	100.000	1.097	1.097	2.795	9889.000
9890.000	2.442	19.784	2.226	.798	82.673	62.754	100.000	.196	.196	2.818	9890.000

PHILLIPS PETROLEUM CO. 7/11

2X

(102)

INT00210

1 DEPTH FEET	23 FDC-C GM/CC	24 NEUTRON C %	25 RMLL (C) OHM-M	32 RT OHM/M	30 GR C API U.	51 VSH %	61 SXD %	40 BVW %	41 BVSXD %	62 DEN (MA) GM/CC	I DEPTH FEET
9891.000	2.465	20.350	1.504	.790	85.774	67.314	100.000	.070	.070	2.916	9891.000
9892.000	2.451	19.239	1.477	.800	85.026	66.214	100.000	.091	.091	2.824	9892.000
9893.000	2.440	19.485	1.502	1.073	83.812	64.429	100.000	.136	.136	2.823	9893.000
9894.000	2.465	20.334	1.531	.853	83.927	64.590	100.000	.131	.131	2.905	9894.000
9895.000	2.400	18.357	1.511	.847	84.773	65.842	100.000	.099	.099	2.856	9895.000
9896.000	2.450	18.790	1.440	.844	86.484	68.359	100.000	.055	.055	2.825	9896.000
9897.000	2.447	18.095	1.411	.802	83.379	63.793	100.000	.156	.156	2.763	9897.000
9898.000	2.457	19.402	1.404	.752	79.040	57.423	100.000	.583	.583	2.796	9898.000
9899.000	2.459	19.496	1.408	.785	76.036	52.995	100.000	1.313	1.313	2.834	9899.000
9900.000	2.463	20.604	1.410	.745	84.889	66.014	100.000	.095	.095	2.918	9900.000
9901.000	2.460	19.619	1.375	.705	80.303	71.034	100.000	.029	.029	2.878	9901.000
9902.000	2.440	19.507	1.311	.893	79.702	58.386	100.000	.483	.483	2.818	9902.000
9903.000	2.419	18.786	1.304	.891	77.572	55.254	100.000	.877	.877	2.735	9903.000
9904.000	2.440	18.989	1.391	.901	84.552	65.517	100.000	.106	.106	2.802	9904.000
9905.000	2.472	18.205	1.452	.902	80.889	71.896	100.000	.023	.023	2.842	9905.000
9906.000	2.472	18.002	1.426	1.140	94.059	79.499	100.000	.003	.003	2.851	9906.000
9907.000	2.479	18.157	1.461	.773	95.226	81.215	100.000	.002	.002	2.898	9907.000
9908.000	2.476	17.252	1.588	.772	86.856	68.906	100.000	.048	.048	2.800	9908.000
9909.000	2.481	18.143	1.714	.798	85.885	67.478	100.000	.068	.068	2.853	9909.000
9910.000	2.480	19.822	1.507	1.254	86.324	68.123	100.000	.058	.058	2.955	9910.000
9911.000	2.477	21.197	1.447	1.306	86.178	67.909	100.000	.061	.061	3.000	9911.000
9912.000	2.485	19.823	1.515	1.404	90.556	74.347	100.000	.012	.012	2.990	9912.000
9913.000	2.499	18.734	1.675	1.029	94.611	80.310	100.000	.002	.002	3.000	9913.000
9914.000	2.494	18.702	1.666	1.131	85.375	66.727	100.000	.081	.081	2.911	9914.000
9915.000	2.477	18.276	1.579	1.142	79.153	57.578	100.000	.565	.565	2.832	9915.000
9916.000	2.471	18.566	1.512	1.493	74.522	50.768	100.000	1.912	1.912	2.823	9916.000
9917.000	2.460	18.731	1.558	1.091	71.633	46.519	100.000	3.676	3.676	2.820	9917.000
9918.000	2.466	17.583	1.604	1.171	71.561	46.413	100.000	3.733	3.733	2.784	9918.000
9919.000	2.485	16.566	1.726	1.160	75.986	52.921	100.000	1.330	1.330	2.788	9919.000
9920.000	2.470	17.057	2.017	1.152	82.825	62.978	100.000	.107	.107	2.776	9920.000
9921.000	2.460	17.615	2.193	1.128	78.174	56.139	100.000	.744	.744	2.776	9921.000
9922.000	2.471	17.991	1.945	1.101	73.878	49.820	100.000	2.228	2.228	2.805	9922.000
9923.000	2.460	18.708	1.714	.946	73.086	48.656	100.000	2.674	2.674	2.808	9923.000
9924.000	2.480	19.377	1.639	1.298	74.374	50.550	100.000	1.981	1.981	2.864	9924.000
9925.000	2.505	19.897	1.631	.979	80.511	59.575	100.000	.381	.381	2.957	9925.000
9926.000	2.490	20.143	1.601	.895	81.135	60.493	100.000	.316	.316	2.938	9926.000
9927.000	2.487	19.834	1.460	.695	82.696	62.788	100.000	.195	.195	2.929	9927.000
9928.000	2.477	20.748	1.369	.649	88.924	71.947	100.000	.023	.023	3.000	9928.000
9929.000	2.453	21.981	1.373	.659	88.610	71.485	100.000	.025	.025	3.000	9929.000
9930.000	2.440	24.112	1.242	.818	85.787	67.334	100.000	.070	.070	2.957	9930.000
9931.000	2.456	23.670	.957	1.140	83.679	64.528	100.000	.133	.133	3.000	9931.000
9932.000	2.464	21.016	.883	1.299	74.708	51.041	100.000	1.828	1.828	2.891	9932.000
9933.000	2.448	16.309	1.125	1.488	64.037	35.349	97.897	8.899	10.012	2.737	9933.000
9934.000	2.425	15.341	1.091	1.666	41.431	2.184	98.986	16.044	16.712	2.713	9934.000
9935.000	2.400	15.257	.847	1.805	42.807	4.128	97.396	15.015	16.686	2.697	9935.000
9936.000	2.383	15.943	.722	1.814	47.568	11.129	95.981	13.498	15.905	2.691	9936.000
9937.000	2.409	16.850	.711	1.802	55.025	22.896	95.236	11.893	13.485	2.715	9937.000
9938.000	2.405	18.231	.820	1.802	61.063	32.151	93.648	9.461	12.302	2.735	9938.000
9939.000	2.393	19.704	.875	1.831	60.237	29.760	92.600	10.188	13.805	2.757	9939.000
9940.000	2.396	17.627	.710	1.837	51.625	17.095	94.002	12.237	15.149	2.722	9940.000
9941.000	2.395	16.656	.716	1.547	50.217	15.025	97.120	13.601	15.372	2.703	9941.000
9942.000	2.415	16.848	.760	1.107	50.894	16.020	100.000	15.220	15.220	2.716	9942.000
9943.000	2.420	18.252	.780	1.224	51.000	15.000	96.741	15.123	17.264	2.700	9943.000

PHILLIPS PETROLEUM CO. 7/11

1	23	24	25	2X	32	(102)	51	INT00210	61	40	41	62	1
DEPTH	FDC-C	NEUTRON C	RMLL(C)	RT	OHM/M	GR C	VSH	SXO		BVW	BVSXO	DEN(MA)	DEPTH
FEET	GM/CC	%	OHM-M			API U.	%	%		%	%	GM/CC	FEET
9944.000	2.212	24.631	.849		1.386	63.917	35.171	95.354		10.446	12.636	2.500	9944.000
9945.000	2.277	36.648	.758		1.465	74.104	50.153	100.000		2.112	2.112	2.500	9945.000
9946.000	2.377	29.056	.511		1.555	73.572	49.370	100.000		2.393	2.393	2.764	9946.000
9947.000	2.404	22.895	.812		2.037	64.755	36.404	92.529		8.122	11.080	2.859	9947.000
9948.000	2.350	20.663	1.310		2.240	56.036	24.759	90.172		10.310	15.594	2.747	9948.000
9949.000	2.287	19.950	1.181		2.213	47.022	11.503	90.349		12.857	19.295	2.683	9949.000
9950.000	2.302	16.799	.934		2.494	43.750	5.526	91.103		12.094	18.718	2.661	9950.000
9951.000	2.329	14.716	1.200		3.159	41.393	2.049	90.669		11.853	17.539	2.660	9951.000
9952.000	2.320	13.201	1.961		3.070	33.986	.000	89.363		10.971	17.202	2.644	9952.000
9953.000	2.300	13.111	2.317		3.070	31.681	.000	89.088		10.988	17.445	2.637	9953.000
9954.000	2.319	13.650	1.926		3.400	39.373	.000	90.079		11.570	17.572	2.647	9954.000
9955.000	2.375	13.210	1.731		3.135	49.191	12.045	91.785		9.926	13.986	2.660	9955.000
9956.000	2.416	13.910	2.178		2.833	49.031	13.281	93.410		10.046	13.191	2.692	9956.000
9957.000	2.359	12.154	2.424		2.720	43.344	4.918	93.749		12.033	15.578	2.644	9957.000
9958.000	2.333	9.205	1.049		2.585	42.951	4.339	94.861		12.388	15.298	2.598	9958.000
9959.000	2.407	9.174	1.690		2.452	48.905	13.096	96.981		10.366	11.718	2.628	9959.000
9960.000	2.421	16.137	1.362		2.420	62.014	32.374	92.341		7.611	10.467	2.711	9960.000
9961.000	2.417	20.306	.951		2.388	67.654	40.668	93.792		5.669	7.325	2.797	9961.000
9962.000	2.416	23.526	.750		2.288	67.900	41.029	94.413		5.623	7.076	2.883	9962.000
9963.000	2.387	21.072	.921		2.010	56.539	24.323	91.369		10.921	15.671	2.786	9963.000
9964.000	2.276	15.476	1.362		2.403	42.574	3.786	91.415		13.453	19.264	2.632	9964.000
9965.000	2.234	14.853	1.753		2.614	36.366	.000	90.107		13.572	20.588	2.609	9965.000
9966.000	2.292	14.801	1.748		2.736	35.175	.000	91.104		13.152	19.092	2.641	9966.000
9967.000	2.316	13.105	1.798		2.647	43.019	4.440	92.390		12.484	17.134	2.630	9967.000
9968.000	2.368	14.091	2.277		2.544	50.821	15.914	92.746		10.399	14.054	2.659	9968.000
9969.000	2.429	17.246	2.297		2.339	60.512	30.165	92.220		8.312	11.492	2.747	9969.000
9970.000	2.471	19.877	1.337		2.327	63.841	35.060	91.083		7.917	11.503	2.865	9970.000
9971.000	2.449	15.730	1.503		2.500	52.476	10.346	93.742		9.763	12.643	2.743	9971.000
9972.000	2.364	13.200	3.135		2.644	53.323	19.592	92.291		9.474	13.058	2.642	9972.000
9973.000	2.370	14.800	3.727		2.738	56.658	24.498	91.277		8.552	12.320	2.667	9973.000
9974.000	2.382	14.002	2.411		2.831	51.695	17.184	91.714		9.615	13.590	2.677	9974.000
9975.000	2.306	14.206	1.422		2.857	46.274	9.226	90.642		11.276	16.705	2.631	9975.000
9976.000	2.315	14.384	1.338		2.767	47.645	11.242	90.902		11.086	16.237	2.635	9976.000
9977.000	2.465	20.791	1.535		2.646	73.462	49.209	97.238		2.133	2.386	2.889	9977.000
9978.000	2.495	21.183	1.501		2.595	78.864	57.152	99.018		.584	.688	2.986	9978.000
9979.000	2.421	15.746	1.166		2.682	53.728	20.180	92.769		9.337	12.607	2.716	9979.000
9980.000	2.325	13.278	1.116		2.617	47.983	11.739	92.057		11.181	15.569	2.627	9980.000
9981.000	2.370	13.122	1.602		2.670	47.544	11.094	93.212		10.955	14.512	2.654	9981.000
9982.000	2.381	13.396	1.986		2.959	47.860	11.559	92.419		10.285	14.098	2.665	9982.000
9983.000	2.368	13.325	1.340		3.337	45.439	9.469	91.186		10.090	14.606	2.660	9983.000
9984.000	2.320	13.236	1.180		3.453	43.519	5.176	89.985		10.797	16.467	2.636	9984.000
9985.000	2.310	13.054	1.397		3.483	43.230	4.750	89.767		10.836	16.689	2.630	9985.000
9986.000	2.340	12.423	1.539		3.757	41.654	2.433	90.302		10.690	16.076	2.643	9986.000
9987.000	2.374	12.914	1.742		4.007	46.358	9.350	89.893		9.182	14.062	2.661	9987.000
9988.000	2.391	13.477	2.087		3.705	48.898	13.086	90.288		8.800	13.242	2.674	9988.000
9989.000	2.378	12.814	2.502		3.612	50.756	15.817	90.397		8.567	12.830	2.655	9989.000
9990.000	2.362	13.368	1.934		3.890	49.513	13.989	89.221		8.667	13.677	2.654	9990.000
9991.000	2.324	13.283	1.383		3.878	43.139	4.616	89.088		10.259	16.287	2.642	9991.000
9992.000	2.300	13.724	1.346		3.657	41.262	1.856	89.246		11.035	17.395	2.641	9992.000
9993.000	2.324	15.197	1.488		3.428	49.001	13.236	88.762		9.656	15.555	2.652	9993.000
9994.000	2.367	18.794	1.245		3.333	57.603	25.887	87.577		8.051	13.606	2.723	9994.000
9995.000	2.374	17.707	1.423		3.360	56.056	23.626	88.282		8.165	13.442	2.717	9995.000
9996.000	2.374	15.700	2.205		3.442	62.276	32.759	89.190		6.314	9.978	2.703	9996.000

PHILLIPS PETROLEUM CO. 7-11

1	23	24	25	32	(102)	51	INT002	40	41	62	1
DEPTH	FDC-C	NEUTRON C	RMLL(C)	RT	GR C	VSH	SXO	BYVJ	BVSXO	DEN(MA)	DEPTH
FEET	GM/CC	%	OHM-M	OHM/M	API U.	%	%	%	%	GM/CC	FEET
9997.000	2.449	14.800	1.688	3.850	55.816	22.083	89.970	7.162	10.931	2.732	9997.000
9998.000	2.381	15.727	1.814	4.413	45.524	8.123	87.650	9.119	15.451	2.691	9998.000
9999.000	2.290	15.252	.990	4.966	40.391	.575	85.650	9.693	18.011	2.654	9999.000
10000.000	2.313	11.822	1.445	5.808	37.742	.000	86.196	8.916	16.152	2.631	10000.000
10001.000	2.395	9.131	3.812	5.709	38.164	.000	89.825	8.730	13.489	2.645	10001.000
10002.000	2.437	6.720	10.534	10.065	37.773	.000	89.910	6.416	9.819	2.674	10002.000
10003.000	2.539	5.879	17.742	7.887	35.283	.000	96.222	7.075	8.254	2.682	10003.000
10004.000	2.428	10.881	7.397	5.184	41.909	2.807	90.887	8.851	12.971	2.678	10004.000
10005.000	2.342	13.612	1.460	4.224	51.899	16.322	87.679	8.885	13.681	2.642	10005.000
10006.000	2.364	14.110	1.894	2.886	61.940	32.265	90.387	7.293	10.927	2.635	10006.000
10007.000	2.411	18.290	1.899	2.304	78.924	45.477	96.903	3.639	4.127	2.723	10007.000
10008.000	2.465	18.510	1.898	2.149	77.184	54.682	100.000	.973	.973	2.815	10008.000
10009.000	2.448	15.925	1.743	2.895	72.550	47.868	98.843	2.844	2.980	2.712	10009.000
10010.000	2.436	18.356	1.565	2.154	64.875	36.580	92.188	7.818	10.861	2.779	10010.000
10011.000	2.483	16.773	2.431	2.556	68.300	41.617	93.754	5.869	6.568	2.692	10011.000
10012.000	2.435	16.738	2.548	2.640	82.605	62.654	100.000	.200	.200	2.693	10012.000
10013.000	2.444	18.454	1.758	2.565	88.978	68.262	100.000	.331	.331	2.771	10013.000
10014.000	2.443	17.865	1.405	2.585	78.288	44.412	95.576	3.925	4.784	2.766	10014.000
10015.000	2.371	16.350	1.246	2.883	54.864	21.858	90.241	8.960	13.510	2.687	10015.000
10016.000	2.354	15.480	1.729	2.996	54.642	21.532	89.843	8.860	13.598	2.664	10016.000
10017.000	2.427	17.765	2.317	3.082	81.393	68.872	100.000	.292	.292	2.789	10017.000
10018.000	2.484	19.177	2.434	2.799	81.168	68.529	100.000	.313	.313	2.887	10018.000
10019.000	2.452	18.588	1.963	3.275	67.329	48.198	90.624	5.836	7.466	2.888	10019.000
10020.000	2.481	15.151	1.676	4.464	43.789	5.572	88.961	9.293	14.838	2.789	10020.000
10021.000	2.482	8.812	9.467	6.519	39.821	.000	89.643	8.175	12.661	2.639	10021.000
10022.000	2.549	4.539	25.348	8.394	41.545	2.273	96.570	6.357	7.389	2.680	10022.000
10023.000	2.632	4.931	24.628	8.682	48.263	.387	100.000	6.449	6.449	2.742	10023.000
10024.000	2.588	6.627	13.145	.010	46.183	9.893	100.000	6.552	6.552	2.716	10024.000
10025.000	2.498	7.881	4.875	10.241	58.782	15.856	88.288	4.112	6.795	2.678	10025.000
10026.000	2.367	12.591	1.738	3.986	52.866	17.744	89.282	7.978	12.555	2.643	10026.000
10027.000	2.327	13.932	1.345	3.931	46.874	8.933	88.458	9.551	15.685	2.646	10027.000
10028.000	2.312	14.387	1.331	3.745	51.634	17.189	87.659	8.667	14.678	2.629	10028.000
10029.000	2.408	15.393	1.584	3.787	57.367	25.548	88.762	7.114	11.461	2.694	10029.000
10030.000	2.410	16.386	1.283	3.812	52.614	18.558	88.798	8.898	13.816	2.727	10030.000
10031.000	2.347	14.774	1.841	3.556	58.882	14.789	89.884	9.117	14.529	2.668	10031.000
10032.000	2.358	13.969	.988	3.327	53.877	28.488	89.483	8.453	13.185	2.644	10032.000
10033.000	2.374	16.198	.985	3.178	54.477	21.298	89.561	8.593	13.356	2.689	10033.000
10034.000	2.346	17.924	1.515	3.881	58.374	27.828	88.114	8.225	13.644	2.687	10034.000
10035.000	2.398	18.823	1.414	3.223	69.695	43.668	92.874	3.758	5.848	2.738	10035.000
10036.000	2.489	17.125	1.829	3.323	57.249	25.366	89.888	7.724	12.266	2.733	10036.000
10037.000	2.372	14.526	.835	3.224	48.886	12.958	90.757	9.727	14.336	2.674	10037.000
10038.000	2.332	14.375	.811	3.851	44.568	6.786	90.884	11.227	16.513	2.653	10038.000
10039.000	2.338	16.388	.918	2.785	54.385	21.155	89.896	9.615	14.723	2.657	10039.000
10040.000	2.393	20.878	1.128	2.395	82.939	63.145	100.000	.188	.188	2.748	10040.000
10041.000	2.456	22.348	1.246	2.747	88.586	71.451	100.000	.826	.826	3.888	10041.000
10042.000	2.473	23.365	1.181	3.238	74.596	58.876	95.984	1.538	1.883	3.888	10042.000
10043.000	2.414	28.114	.898	5.169	51.884	17.359	84.217	7.457	14.824	2.818	10043.000
10044.000	2.482	13.842	1.364	6.857	43.981	5.854	85.821	7.481	13.643	2.699	10044.000
10045.000	2.549	4.945	5.679	8.513	48.168	.246	96.898	6.729	7.898	2.685	10045.000
10046.000	2.572	5.624	18.739	8.585	48.891	13.369	95.854	4.886	5.886	2.698	10046.000
10047.000	2.531	11.866	5.555	5.585	54.319	21.857	91.157	5.178	7.588	2.745	10047.000
10048.000	2.428	14.853	1.647	4.834	56.565	24.368	87.799	6.867	18.289	2.699	10048.000
10049.000	2.388	16.182	1.151	4.618	44.983	7.342	87.688	8.963	15.166	2.711	10049.000

PHILLIPS PETROLEUM CO. 7/11

1	23	24	25	32	(102)	51	61	40	41	62	1
DEPTH FEET	FDC-C GM/CC	NEUTRON C %	RMLL(C) OHM-M	RT OHM/M	GR C API U.	VSH %	SXO %	BVU %	BVSXO %	DEN(MA) GM/CC	DEPTH FEET
10050.000	2.321	13.792	1.064	5.128	40.867	1.275	86.568	9.354	16.656	2.654	10050.000
10051.000	2.319	11.797	1.589	5.068	42.262	3.327	86.039	8.441	15.404	2.630	10051.000
10052.000	2.330	11.710	2.261	6.569	45.411	7.958	85.039	7.396	14.141	2.630	10052.000
10053.000	2.336	12.653	3.093	6.007	50.538	15.498	83.911	6.412	12.933	2.634	10053.000
10054.000	2.365	14.024	3.720	6.728	49.643	14.181	84.282	6.576	13.033	2.671	10054.000
10055.000	2.389	14.213	2.755	6.176	43.884	5.712	86.289	7.863	14.235	2.695	10055.000
10056.000	2.357	11.442	2.194	5.588	40.106	.157	87.833	8.975	15.081	2.650	10056.000
10057.000	2.359	9.863	2.066	5.038	40.119	.175	89.481	9.406	14.671	2.632	10057.000
10058.000	2.361	10.055	1.817	4.482	44.069	5.983	90.101	9.069	13.760	2.627	10058.000
10059.000	2.342	11.637	1.708	4.183	49.596	14.111	88.725	8.291	13.379	2.621	10059.000
10060.000	2.340	12.734	1.943	4.136	51.102	16.326	88.146	8.099	13.416	2.630	10060.000
10061.000	2.353	13.680	1.969	3.946	52.657	18.614	88.301	7.971	13.112	2.647	10061.000
10062.000	2.412	14.285	2.002	3.887	62.086	32.480	88.621	5.809	9.419	2.680	10062.000
10063.000	2.487	16.396	1.649	4.130	66.386	38.804	88.032	4.840	8.058	2.808	10063.000
10064.000	2.411	17.252	1.427	4.720	62.575	33.198	85.504	5.597	10.471	2.738	10064.000
10065.000	2.346	18.363	1.279	5.235	51.453	16.842	84.160	7.462	14.875	2.712	10065.000
10066.000	2.286	15.855	.970	5.270	41.437	2.114	84.731	9.233	17.913	2.657	10066.000
10067.000	2.316	11.971	1.076	5.558	40.893	1.314	86.464	8.935	15.986	2.632	10067.000
10068.000	2.359	12.012	1.449	6.483	39.601	.000	86.343	8.359	15.039	2.659	10068.000
10069.000	2.373	13.352	1.760	7.115	43.389	4.984	85.024	7.411	14.181	2.678	10069.000
10070.000	2.371	13.135	1.683	7.719	39.414	.000	84.694	7.667	14.901	2.688	10070.000
10071.000	2.327	11.347	1.708	8.041	36.356	.000	83.965	7.531	15.152	2.638	10071.000
10072.000	2.358	10.227	2.061	8.309	36.213	.000	85.010	7.344	14.063	2.642	10072.000
10073.000	2.371	10.452	1.854	6.853	40.020	.029	86.905	8.070	14.148	2.649	10073.000
10074.000	2.368	9.819	1.595	5.820	39.862	.000	88.290	8.764	14.422	2.634	10074.000
10075.000	2.347	10.352	1.579	5.030	40.540	.795	88.910	9.354	14.969	2.631	10075.000
10076.000	2.365	11.982	1.709	4.688	46.805	10.087	88.562	8.347	13.568	2.646	10076.000
10077.000	2.350	14.450	1.357	4.486	48.277	12.172	87.520	8.499	14.486	2.664	10077.000
10078.000	2.318	15.476	1.243	3.856	45.186	7.626	87.879	9.929	16.647	2.660	10078.000
10079.000	2.358	14.546	1.505	3.370	52.631	18.574	89.467	8.679	13.546	2.659	10079.000
10080.000	2.407	15.748	1.139	3.119	56.614	24.432	90.398	7.988	11.843	2.703	10080.000
10081.000	2.377	17.512	1.096	2.958	60.416	30.023	89.077	7.717	12.257	2.702	10081.000
10082.000	2.360	17.935	1.183	2.940	62.154	32.580	88.616	7.516	12.188	2.698	10082.000
10083.000	2.374	17.162	1.545	3.026	62.072	32.459	88.780	7.288	11.730	2.691	10083.000
10084.000	2.434	17.992	2.380	3.261	68.525	41.948	91.739	4.371	6.171	2.766	10084.000
10085.000	2.430	19.886	1.909	3.483	46.766	9.950	88.511	10.104	16.464	2.816	10085.000
10086.000	2.353	18.262	1.281	3.417	41.962	2.885	88.949	11.299	18.050	2.719	10086.000
10087.000	2.336	15.801	1.283	3.118	44.735	6.963	90.114	11.185	16.840	2.672	10087.000
10088.000	2.386	15.619	1.935	2.857	60.580	30.147	90.292	7.531	11.330	2.678	10088.000
10089.000	2.450	17.620	2.430	2.268	70.128	44.386	96.333	4.142	4.809	2.768	10089.000
10090.000	2.469	18.213	1.812	2.882	66.175	38.493	93.682	7.877	9.820	2.817	10090.000
10091.000	2.455	19.393	1.333	1.997	64.479	35.999	92.476	8.330	11.390	2.830	10091.000
10092.000	2.422	19.517	1.352	1.895	74.677	50.995	100.000	1.842	1.842	2.766	10092.000
10093.000	2.450	22.654	1.391	2.348	79.290	57.780	99.880	.540	.543	2.961	10093.000
10094.000	2.469	24.094	1.275	2.487	77.218	54.732	99.093	.921	.955	3.000	10094.000
10095.000	2.448	22.218	1.142	2.658	80.169	59.072	100.000	.421	.421	2.939	10095.000
10096.000	2.432	25.893	1.423	2.734	80.090	58.956	100.000	.431	.431	3.000	10096.000
10097.000	2.431	16.699	1.491	2.645	61.310	31.339	91.326	7.497	10.778	2.739	10097.000
10098.000	2.441	15.110	1.692	2.783	69.080	42.764	93.924	4.449	5.717	2.700	10098.000
10099.000	2.500	20.015	2.282	2.769	78.794	57.849	98.464	.579	.616	2.944	10099.000
10100.000	2.521	19.147	2.210	2.439	79.900	58.677	100.000	.456	.456	2.958	10100.000
10101.000	2.509	18.732	1.424	2.887	75.983	52.916	100.000	1.331	1.331	2.982	10101.000
10102.000	2.450	18.625	.961	1.854	68.662	38.385	94.854	9.365	11.967	2.821	10102.000

PHILLIPS PETROLEUM CO. 7/11

1	23	24	25	32	(102)	51	INTRO	61	40	41	62	11
DEPTH FEET	FDC-C GM/CC	NEUTRON C %	RMILL(C) OHM-M	RT OHM/M	GR C API U.	VSH %	SXO %		BVU %	BVSXO %	DEN(MA) GM/CC	DEPTH FEET
10103.000	2.396	19.120	.941	1.767	47.187	10.569	94.724		14.035	17.433	2.752	10103.000
10104.000	2.336	17.876	1.169	1.959	47.347	10.805	93.231		13.385	17.717	2.687	10104.000
10105.000	2.318	18.436	1.325	2.214	52.999	19.116	90.820		11.235	16.509	2.677	10105.000
10106.000	2.363	21.053	1.269	2.280	50.993	26.600	89.718		9.952	15.360	2.762	10106.000
10107.000	2.350	20.576	1.078	2.240	63.945	35.213	90.914		8.203	12.008	2.722	10107.000
10108.000	2.382	19.512	1.035	2.166	65.329	37.248	92.437		7.494	10.264	2.732	10108.000
10109.000	2.405	19.713	1.063	2.161	60.593	30.284	91.204		9.216	13.319	2.776	10109.000
10110.000	2.373	19.843	1.108	2.288	65.041	38.002	92.420		6.971	9.555	2.728	10110.000
10111.000	2.422	20.935	.898	2.295	70.002	44.120	96.199		4.215	4.921	2.817	10111.000
10112.000	2.446	18.973	.634	2.094	71.835	46.816	98.394		3.248	3.465	2.794	10112.000
10113.000	2.446	19.512	.812	1.994	73.002	49.789	99.924		2.259	2.266	2.808	10113.000
10114.000	2.425	21.387	1.252	1.633	77.180	54.660	100.000		.977	.977	2.837	10114.000
10115.000	2.428	22.799	1.465	2.062	82.115	61.934	100.000		.234	.234	2.904	10115.000
10116.000	2.455	21.875	1.679	1.982	87.058	69.203	100.000		.045	.045	2.998	10116.000
10117.000	2.462	21.840	1.816	1.761	88.396	59.406	100.000		.394	.394	2.955	10117.000
10118.000	2.452	20.500	2.064	2.275	77.660	55.383	99.930		.853	.855	2.857	10118.000
10119.000	2.442	21.066	1.846	2.228	78.316	56.346	100.000		.715	.715	2.863	10119.000
10120.000	2.451	21.974	1.141	1.747	78.434	56.521	100.000		.692	.692	2.922	10120.000
10121.000	2.452	20.364	1.892	1.894	73.242	48.885	100.000		2.581	2.581	2.843	10121.000
10122.000	2.415	17.515	3.047	2.348	58.786	27.626	91.928		8.817	12.346	2.739	10122.000
10123.000	2.399	14.118	2.733	2.531	52.927	19.010	93.253		9.603	12.699	2.677	10123.000
10124.000	2.512	9.967	1.407	2.542	49.910	14.574	99.856		8.990	9.042	2.703	10124.000
10125.000	2.540	10.404	1.471	2.537	52.738	18.721	99.733		7.864	7.948	2.733	10125.000
10126.000	2.479	19.064	2.053	2.465	65.911	38.104	91.805		6.676	9.398	2.857	10126.000
10127.000	2.460	22.472	2.070	2.343	74.311	50.458	98.708		1.884	1.985	2.946	10127.000
10128.000	2.462	20.764	2.034	2.353	76.657	53.908	99.440		1.087	1.112	2.885	10128.000
10129.000	2.446	19.713	1.668	2.450	69.015	42.669	94.756		4.705	5.836	2.822	10129.000
10130.000	2.416	19.994	1.579	2.464	65.268	37.159	91.212		7.068	10.212	2.795	10130.000
10131.000	2.437	18.095	2.246	2.389	55.263	22.445	92.103		9.638	13.393	2.779	10131.000
10132.000	2.411	18.794	2.365	2.282	53.209	19.426	91.996		10.622	14.829	2.765	10132.000
10133.000	2.431	21.825	2.047	2.235	69.965	44.066	96.484		4.291	4.968	2.860	10133.000
10134.000	2.487	23.870	1.861	2.025	84.891	66.016	100.000		.095	.095	3.000	10134.000
10135.000	2.515	22.262	1.584	1.947	98.092	73.665	100.000		.015	.015	3.000	10135.000
10136.000	2.518	24.039	1.178	2.000	85.313	66.637	100.000		.082	.082	3.000	10136.000
10137.000	2.515	24.165	.964	2.400	88.098	70.733	100.000		.031	.031	3.000	10137.000
10138.000	2.498	21.472	1.149	2.733	66.368	38.776	91.304		6.074	8.740	2.940	10138.000
10139.000	2.375	16.799	1.422	3.079	53.943	20.505	89.627		8.873	13.758	2.698	10139.000
10140.000	2.342	16.012	1.441	3.458	45.691	8.370	89.109		10.303	16.340	2.678	10140.000
10141.000	2.326	14.589	1.820	3.830	45.614	8.256	88.616		9.753	15.816	2.659	10141.000
10142.000	2.328	13.189	2.710	4.192	40.261	.383	88.733		10.408	16.789	2.649	10142.000
10143.000	2.349	12.362	2.259	4.003	39.922	.000	90.076		10.642	16.165	2.651	10143.000
10144.000	2.366	12.540	1.702	3.734	42.921	4.296	90.816		10.305	15.158	2.657	10144.000
10145.000	2.350	14.498	2.043	3.986	41.612	2.370	89.884		10.385	16.489	2.673	10145.000
10146.000	2.371	14.460	1.781	3.574	41.437	2.113	90.639		10.958	16.237	2.683	10146.000
10147.000	2.394	14.043	1.297	3.449	45.686	8.245	91.304		10.034	14.439	2.686	10147.000
10148.000	2.350	14.880	1.248	3.628	46.382	9.385	89.242		9.811	15.469	2.669	10148.000
10149.000	2.344	14.301	1.689	3.573	42.888	3.870	89.949		10.864	16.596	2.665	10149.000
10150.000	2.366	12.727	2.144	3.443	37.130	.000	91.740		11.452	16.167	2.662	10150.000
10151.000	2.351	11.790	2.410	3.436	34.498	.000	91.767		11.462	16.163	2.644	10151.000
10152.000	2.351	11.719	2.276	3.391	36.628	.000	92.157		11.693	16.211	2.643	10152.000
10153.000	2.337	12.350	2.376	3.082	37.744	.000	92.079		12.152	16.984	2.641	10153.000
10154.000	2.401	12.689	2.585	2.839	37.924	.000	94.565		12.533	15.673	2.678	10154.000
10155.000	2.417	12.915	2.826	2.604	41.534	2.255	95.542		12.612	15.136	2.684	10155.000

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INT00210

1 DEPTH FEET	23 FDC-C GM/CC	24 NEUTRON C %	25 RMLL(C) OHM-M	32 RT OHM-M	30 GR C API U.	51 VSH %	51 SXD %	40 BVW %	41 BVSXD %	62 DEN(MA) GM/CC	1 DEPTH FEET
10156.000	2.433	14.133	4.052	2.678	45.065	7.440	94.772	11.384	14.112	2.708	10156.000
10157.000	2.448	16.913	2.428	2.607	49.303	13.681	92.852	10.587	14.243	2.768	10157.000
10158.000	2.403	16.048	1.467	2.495	54.331	21.076	92.430	9.489	12.996	2.704	10158.000
10159.000	2.376	15.709	1.393	2.438	49.806	14.538	92.704	10.934	14.804	2.686	10159.000
10160.000	2.358	16.449	1.906	2.419	46.429	9.454	92.447	12.878	16.536	2.687	10160.000
10161.000	2.355	14.527	2.723	2.296	43.938	5.791	93.952	12.996	16.680	2.665	10161.000
10162.000	2.377	12.939	2.289	2.165	40.874	1.286	96.185	14.157	16.541	2.663	10162.000
10163.000	2.350	14.614	1.582	2.262	42.702	3.974	94.057	13.475	17.217	2.665	10163.000
10164.000	2.352	12.609	1.891	2.222	40.800	1.294	95.356	14.029	16.968	2.646	10164.000
10165.000	2.337	12.551	2.380	2.108	40.750	1.183	95.439	14.480	17.452	2.636	10165.000
10166.000	2.322	13.925	2.556	2.196	41.308	2.042	94.000	14.106	18.067	2.643	10166.000
10167.000	2.347	14.446	2.746	2.276	41.683	2.475	94.074	13.725	17.523	2.662	10167.000
10168.000	2.414	13.722	2.843	2.302	42.381	3.501	96.168	13.187	15.417	2.692	10168.000
10169.000	2.446	15.621	2.863	2.310	45.050	7.426	95.372	12.385	14.969	2.742	10169.000
10170.000	2.445	23.570	1.434	2.282	59.894	29.256	89.019	9.703	15.452	2.941	10170.000
10171.000	2.411	26.650	.706	2.280	67.995	41.169	94.475	5.551	6.967	2.872	10171.000
10172.000	2.300	21.759	1.298	2.290	57.736	26.883	89.518	10.048	15.647	2.880	10172.000
10173.000	2.374	16.029	2.435	2.364	44.870	7.162	93.407	12.559	16.498	2.693	10173.000
10174.000	2.419	15.338	3.226	2.497	43.178	4.673	94.559	12.588	15.645	2.716	10174.000
10175.000	2.484	20.774	2.815	2.747	63.939	35.205	89.120	7.388	11.712	2.916	10175.000
10176.000	2.486	21.289	1.696	2.697	74.882	51.297	97.689	1.559	1.711	2.952	10176.000
10177.000	2.464	21.727	1.162	2.376	78.846	57.127	99.733	.609	.615	2.943	10177.000
10178.000	2.413	21.217	1.315	2.176	71.900	46.912	98.071	3.151	3.406	2.808	10178.000
10179.000	2.304	22.842	1.399	2.007	65.311	37.222	93.894	7.782	10.362	2.800	10179.000
10180.000	2.384	20.704	1.396	2.020	60.643	30.357	90.969	9.806	14.320	2.775	10180.000
10181.000	2.416	19.056	1.148	2.080	64.915	36.640	92.405	7.902	10.839	2.768	10181.000
10182.000	2.416	23.698	1.330	2.200	75.079	51.587	99.558	1.633	1.662	2.866	10182.000
10183.000	2.462	23.203	1.276	2.207	73.190	48.809	98.702	2.447	2.578	2.975	10183.000
10184.000	2.458	22.553	.903	2.122	76.162	53.179	100.000	1.271	1.271	2.952	10184.000
10185.000	2.418	23.594	1.001	2.167	78.201	56.178	100.000	.738	.738	2.872	10185.000
10186.000	2.362	25.241	1.274	2.192	71.539	46.380	97.762	3.349	3.666	2.739	10186.000
10187.000	2.373	22.493	1.126	2.063	53.913	28.468	90.375	11.640	17.449	2.887	10187.000
10188.000	2.396	23.245	1.063	2.007	57.629	25.926	90.115	10.945	16.597	2.858	10188.000
10189.000	2.446	22.883	1.910	2.121	67.393	40.284	94.565	6.166	7.710	2.895	10189.000
10190.000	2.476	20.958	2.152	2.076	79.905	58.683	100.000	.455	.455	2.937	10190.000
10191.000	2.479	19.310	1.446	1.986	78.631	56.810	100.000	.655	.655	2.872	10191.000
10192.000	2.463	17.696	.994	1.935	70.330	44.603	98.014	4.340	4.702	2.786	10192.000
10193.000	2.445	21.989	.866	1.755	62.353	32.872	92.212	10.848	13.897	2.884	10193.000
10194.000	2.440	19.684	.767	1.411	59.988	29.276	95.827	11.300	13.401	2.815	10194.000
10195.000	2.428	16.821	.861	1.358	53.484	19.829	98.015	12.976	13.500	2.715	10195.000
10196.000	2.475	21.981	1.542	1.697	64.072	35.400	93.514	9.388	12.171	2.926	10196.000
10197.000	2.511	24.483	2.128	1.882	74.757	51.113	100.000	1.886	1.886	3.000	10197.000
10198.000	2.494	18.288	1.785	1.985	78.631	56.810	100.000	.655	.655	2.865	10198.000
10199.000	2.506	14.873	1.179	1.996	73.282	48.827	99.612	2.554	2.594	2.775	10199.000
10200.000	2.496	16.222	.958	1.865	74.459	50.675	100.000	1.941	1.941	2.796	10200.000
10201.000	2.492	23.613	.946	2.067	84.880	64.706	100.000	.128	.128	3.000	10201.000
10202.000	2.466	27.433	.697	2.157	96.999	83.821	100.000	.001	.001	3.000	10202.000
10203.000	2.463	28.995	.745	2.054	95.193	81.166	100.000	.002	.002	3.000	10203.000
10204.000	2.441	30.335	1.297	1.835	93.782	79.091	100.000	.003	.003	3.000	10204.000
10205.000	2.488	35.358	2.034	1.782	89.486	72.773	100.000	.018	.018	2.778	10205.000
10206.000	2.251	38.615	2.650	1.589	84.724	65.771	100.000	.108	.108	2.588	10206.000
10207.000	2.341	35.416	2.526	1.721	83.878	63.338	100.000	.173	.173	2.590	10207.000
10208.000	2.474	21.992	2.253	1.587	75.862	52.738	100.000	1.372	1.372	2.956	10208.000

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1	23	24	25	32	30	51	61	40	41	62	1
DEPTH FEET	FDC-C GM/CC	NEUTRON C %	RMLL(C) OHM-M	RT OHM/M	GR C API U.	VSH %	SXO %	BVW %	BVSXO %	DEN(MA) GM/CC	DEPTH FEET
10209.000	2.479	21.405	1.870	1.692	67.700	40.735	96.943	6.636	7.514	2.915	10209.000
10210.000	2.492	23.502	1.792	2.064	72.007	47.069	98.619	3.166	3.347	3.000	10210.000
10211.000	2.480	21.003	1.753	2.267	73.489	49.249	98.612	2.274	2.405	2.952	10211.000
10212.000	2.486	20.005	1.057	1.922	74.500	50.735	100.000	1.922	1.922	2.894	10212.000
10213.000	2.499	19.040	.641	1.974	77.410	55.027	100.000	.914	.914	2.925	10213.000
10214.000	2.490	19.554	.405	2.306	79.371	57.898	100.000	.531	.531	2.907	10214.000
10215.000	2.477	18.354	.341	2.652	78.223	56.211	98.730	.680	.724	2.836	10215.000
10216.000	2.451	22.166	.450	2.721	78.576	56.730	98.575	.619	.656	2.940	10216.000
10217.000	2.256	32.372	.689	1.892	81.660	61.265	100.000	.269	.269	2.500	10217.000
10218.000	2.152	38.373	.615	1.211	77.811	55.604	100.000	.822	.822	2.500	10218.000
10219.000	2.169	43.163	.741	1.227	87.565	69.940	100.000	.037	.037	2.500	10219.000
10220.000	2.429	37.305	1.372	1.220	90.850	74.792	100.000	.011	.011	2.923	10220.000
10221.000	2.560	32.037	1.651	1.590	82.460	62.453	100.000	.209	.209	3.000	10221.000
10222.000	2.629	19.444	1.194	2.369	77.407	55.120	99.551	.877	.893	3.000	10222.000
10223.000	2.507	18.100	.787	3.374	75.519	52.234	95.950	1.217	1.436	2.804	10223.000
10224.000	2.490	18.600	.919	2.946	75.700	52.629	97.235	1.215	1.360	2.864	10224.000
10225.000	2.475	21.807	1.905	2.197	75.990	52.930	99.856	1.316	1.324	2.951	10225.000
10226.000	2.476	25.432	3.200	2.142	82.905	63.095	100.000	.102	.182	3.000	10226.000
10227.000	2.483	27.455	2.222	2.191	87.070	69.232	100.000	.044	.044	3.000	10227.000
10228.000	2.487	25.362	.825	2.083	90.267	73.922	100.000	.014	.014	3.000	10228.000
10229.000	2.474	23.460	.503	1.961	90.383	74.092	100.000	.013	.013	3.000	10229.000
10230.000	2.456	28.650	.693	1.940	83.782	64.386	100.000	.137	.137	3.000	10230.000
10231.000	2.419	32.250	.894	1.690	91.575	75.845	100.000	.008	.008	2.873	10231.000
10232.000	2.331	35.162	.830	1.395	93.290	78.379	100.000	.004	.004	2.500	10232.000
10233.000	2.361	39.430	.746	1.192	85.893	67.490	100.000	.067	.067	2.634	10233.000
10234.000	2.439	36.521	1.097	1.181	88.164	70.829	100.000	.030	.030	2.964	10234.000
10235.000	2.448	36.069	1.954	1.020	94.454	80.079	100.000	.002	.002	3.000	10235.000
10236.000	2.442	33.895	1.387	1.464	98.778	86.439	100.000	.000	.000	3.000	10236.000
10237.000	2.452	28.249	.952	1.643	97.522	84.591	100.000	.001	.001	3.000	10237.000
10238.000	2.477	24.957	1.514	1.660	92.368	77.011	100.000	.006	.006	3.000	10238.000
10239.000	2.490	26.314	1.360	1.759	85.615	67.081	100.000	.074	.074	3.000	10239.000
10240.000	2.412	27.646	.962	1.900	81.975	61.720	100.000	.244	.244	2.849	10240.000
10241.000	2.479	28.854	1.061	1.918	82.152	61.989	100.000	.231	.231	3.000	10241.000
10242.000	2.500	24.254	.984	1.730	80.141	59.031	100.000	.425	.425	3.000	10242.000
10243.000	2.447	29.266	.922	1.301	80.632	59.753	100.000	.367	.367	2.967	10243.000
10244.000	2.446	32.565	1.004	1.099	87.521	69.084	100.000	.030	.030	2.992	10244.000
10245.000	2.471	32.139	1.162	.953	92.230	76.809	100.000	.006	.006	3.000	10245.000
10246.000	2.436	30.825	1.158	.791	94.440	80.059	100.000	.002	.002	2.987	10246.000
10247.000	2.440	30.434	1.089	1.100	95.725	81.949	100.000	.001	.001	3.000	10247.000
10248.000	2.436	25.115	1.427	1.180	88.798	71.762	100.000	.024	.024	2.950	10248.000
10249.000	2.459	23.497	2.198	1.117	82.911	63.105	100.000	.182	.182	3.000	10249.000
10250.000	2.486	23.420	2.389	1.066	81.596	61.170	100.000	.274	.274	3.000	10250.000
10251.000	2.487	24.176	1.454	1.243	97.986	70.560	100.000	.032	.032	3.000	10251.000
10252.000	2.463	22.342	.863	1.389	86.342	68.150	100.000	.058	.058	3.000	10252.000
10253.000	2.473	19.605	1.032	1.476	74.591	58.870	100.000	1.880	1.880	2.828	10253.000
10254.000	2.419	18.265	1.039	1.512	66.387	38.804	96.722	0.000	9.233	2.741	10254.000
10255.000	2.342	23.436	1.089	1.235	68.331	41.664	100.000	6.959	6.959	2.699	10255.000
10256.000	2.488	28.759	1.015	1.118	72.723	48.122	100.000	2.901	2.901	2.847	10256.000
10257.000	2.433	24.667	.802	1.008	76.354	53.461	100.000	1.210	1.210	2.913	10257.000
10258.000	2.485	23.069	.830	1.250	77.627	55.334	100.000	.864	.864	2.830	10258.000
10259.000	2.370	25.077	.903	1.259	79.074	57.462	100.000	.578	.578	2.745	10259.000
10260.000	2.385	23.005	.877	1.280	80.597	59.701	100.000	.371	.371	2.665	10260.000

PHILLIPS PETROLEUM CO. 7/11

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INT00210

1 DEPTH FEET	23 FDC-C GM/CC	24 NEUTRON C %	25 RMLL(C) OHM-M	32 RT OHM/M	30 GR C API U.	51 VSH %	51 S %	40 BVW %	41 BVSXO %	62 DEN(MA) GM/CC	1 DEPTH FEET
10262.000	2.407	25.893	.659	1.329	89.917	73.488	100.000	.016	.016	2.814	10262.000
10263.000	2.421	24.102	.593	1.329	87.251	69.487	100.000	.042	.042	2.861	10263.000
10264.000	2.414	24.983	.732	1.332	83.001	63.237	100.000	.177	.177	2.854	10264.000
10265.000	2.398	27.499	1.077	1.370	79.274	57.756	100.000	.546	.546	2.807	10265.000
10266.000	2.334	28.571	.973	1.380	79.240	57.705	100.000	.552	.552	2.605	10266.000
10267.000	2.346	29.042	.640	1.226	75.804	52.653	100.000	1.393	1.393	2.667	10267.000
10268.000	2.392	27.129	.851	1.244	72.853	47.137	100.000	3.361	3.361	2.807	10268.000
10269.000	2.462	24.710	1.045	1.399	74.933	51.372	100.000	1.730	1.730	2.991	10269.000
10270.000	2.445	22.585	2.271	1.396	78.068	55.983	100.000	.766	.766	2.938	10270.000
10271.000	2.400	22.924	1.399	1.393	72.512	47.012	100.000	3.040	3.040	2.826	10271.000
10272.000	2.466	24.209	.741	1.186	73.081	48.648	100.000	2.677	2.677	2.997	10272.000
10273.000	2.475	22.732	.794	1.040	78.764	57.005	100.000	.631	.631	3.000	10273.000
10274.000	2.444	21.845	.968	.923	74.850	51.250	100.000	1.765	1.765	2.886	10274.000
10275.000	2.403	24.231	1.041	.925	71.833	46.814	100.000	3.523	3.523	2.835	10275.000
10276.000	2.427	23.352	.999	1.170	69.883	42.769	100.000	6.084	6.084	2.892	10276.000
10277.000	2.431	22.529	1.021	1.242	66.383	38.799	98.563	8.083	9.413	2.868	10277.000
10278.000	2.425	23.843	.951	1.215	65.951	38.163	98.354	9.367	10.010	2.892	10278.000
10279.000	2.424	23.375	.878	1.182	66.401	38.826	99.849	9.080	9.434	2.883	10279.000
10280.000	2.423	24.932	.850	1.039	69.756	43.759	100.000	5.363	5.363	2.884	10280.000
10281.000	2.424	25.607	.867	1.014	73.028	48.571	100.000	2.709	2.709	2.888	10281.000
10282.000	2.431	23.728	.832	1.116	71.214	45.902	100.000	4.013	4.013	2.903	10282.000
10283.000	2.436	24.485	.952	1.164	69.996	44.112	100.000	5.121	5.121	2.916	10283.000
10284.000	2.433	25.755	1.127	1.164	72.584	47.917	100.000	2.993	2.993	2.909	10284.000
10285.000	2.440	26.100	1.160	.890	73.017	48.555	100.000	2.716	2.716	2.927	10285.000
10286.000	2.419	24.196	1.179	.926	72.343	47.563	100.000	3.155	3.155	2.874	10286.000
10287.000	2.432	22.794	1.276	1.198	70.153	44.343	100.000	4.967	4.967	2.885	10287.000
10288.000	2.460	21.919	1.274	.955	66.117	38.407	100.000	9.936	9.936	2.887	10288.000
10289.000	2.470	21.982	1.103	1.103	62.676	33.346	96.803	12.347	14.060	2.906	10289.000
10290.000	2.490	22.762	.990	.877	60.871	30.693	98.971	14.596	15.212	2.942	10290.000
10291.000	2.510	20.993	.915	.821	64.688	36.305	100.000	12.077	12.077	2.927	10291.000
10292.000	2.489	21.930	.963	.731	69.690	43.661	100.000	5.432	5.432	2.948	10292.000
10293.000	2.478	22.870	1.102	.656	73.101	48.677	100.000	2.665	2.665	2.986	10293.000
10294.000	2.494	22.330	1.170	.618	72.479	47.763	100.000	3.063	3.063	2.988	10294.000
10295.000	2.470	22.561	1.064	.617	68.726	42.244	100.000	6.490	6.490	2.935	10295.000
10296.000	2.492	22.443	1.218	.644	68.430	41.808	100.000	6.841	6.841	2.965	10296.000
10297.000	2.559	22.023	1.467	1.066	68.174	41.432	100.000	7.152	7.152	3.000	10297.000
10298.000	2.597	25.297	1.401	1.193	65.761	37.884	98.333	9.615	10.283	3.000	10298.000
10299.000	2.620	29.121	.810	1.301	67.248	40.070	98.953	7.920	8.260	3.000	10299.000
10300.000	2.527	31.504	.458	1.376	63.769	34.955	95.166	10.517	12.822	3.000	10300.000
10301.000	2.441	30.752	.532	1.489	62.017	32.377	93.159	11.193	14.861	2.936	10301.000
10302.000	2.485	28.970	.811	1.456	67.040	39.764	97.690	7.678	8.431	2.849	10302.000
10303.000	2.392	29.505	.806	1.219	73.397	49.113	100.000	2.491	2.491	2.802	10303.000
10304.000	2.365	27.427	1.304	1.068	73.632	49.459	100.000	2.359	2.359	2.732	10304.000
10305.000	2.377	27.023	1.331	1.206	82.169	62.013	100.000	.230	.230	2.725	10305.000
10306.000	2.413	20.620	.868	1.238	70.882	45.414	100.000	4.296	4.296	2.782	10306.000
10307.000	2.396	20.872	.630	1.413	64.385	35.861	95.446	9.931	11.967	2.777	10307.000
10308.000	2.421	20.635	.923	1.500	58.580	27.324	94.443	11.675	14.675	2.807	10308.000
10309.000	2.441	17.528	2.261	1.375	52.762	18.767	98.062	13.349	14.436	2.759	10309.000
10310.000	2.494	25.455	2.684	1.015	74.288	50.306	100.000	2.061	2.061	3.000	10310.000
10311.000	2.527	27.130	1.386	1.198	76.233	53.284	100.000	1.248	1.248	3.000	10311.000
10312.000	2.589	22.027	.518	1.279	70.289	44.424	100.000	4.914	4.914	2.988	10312.000
10313.000	2.484	14.831	.490	1.255	59.641	28.883	100.000	9.963	9.963	2.748	10313.000
10314.000	2.460	18.988	1.075	1.014	55.871	23.340	100.000	14.446	14.446	2.803	10314.000

PHILLIPS PETROLEUM CO. 7/11

1	23	24	25	32	30	51	61	40	41	62	1
DEPTH	FG-C	NEUTRON C	MILLI	RT	GR C	VSH	S	BVW	BVSXO	DEN(MA)	DEPTH
FEET	GM/CC	%	OHM-IN	OHM-IN	API U.	%	%	%	%	GM/CC	FEET
10315.000	2.431	24.721	1.597	1.097	64.634	36.226	98.062	11.026	11.923	2.905	10315.000
10316.000	2.345	27.982	.994	1.218	67.717	40.760	100.000	7.729	7.729	2.708	10316.000
10317.000	2.324	29.992	.527	1.259	63.191	34.105	95.521	11.399	13.692	2.694	10317.000
10318.000	2.459	25.642	.605	1.212	58.100	26.617	94.600	13.905	17.357	2.962	10318.000
10319.000	2.422	18.458	.947	.889	53.248	19.482	100.000	15.524	15.524	2.750	10319.000
10320.000	2.347	28.384	.638	.947	50.033	14.754	97.459	18.730	20.770	2.769	10320.000
10321.000	2.321	32.524	.411	1.375	71.537	46.370	100.000	3.751	3.751	2.630	10321.000
10322.000	2.341	29.913	.499	1.307	64.535	36.081	96.307	10.198	11.854	2.723	10322.000
10323.000	2.314	24.680	.615	1.260	56.245	23.890	94.345	14.223	17.952	2.706	10323.000
10324.000	2.257	30.876	.513	1.066	58.452	27.136	95.799	14.698	17.451	2.589	10324.000
10325.000	2.271	35.563	.483	1.221	69.715	43.698	100.000	5.406	5.406	2.523	10325.000
10326.000	2.327	32.207	.610	1.187	74.835	51.228	100.000	1.772	1.772	2.622	10326.000
10327.000	2.310	30.441	.490	1.077	74.027	50.039	100.000	2.151	2.151	2.584	10327.000
10328.000	2.244	32.423	.418	1.029	72.659	48.027	100.000	2.943	2.943	2.500	10328.000
10329.000	2.388	34.440	.452	1.024	75.418	52.085	100.000	1.535	1.535	2.564	10329.000
10330.000	2.353	32.602	.579	1.033	77.683	55.416	100.000	.851	.851	2.675	10330.000
10331.000	2.312	30.886	.968	1.016	82.583	62.621	100.000	.202	.202	2.500	10331.000
10332.000	2.312	24.330	1.253	1.023	61.945	32.272	96.628	13.514	15.501	2.674	10332.000
10333.000	2.287	23.223	1.206	1.243	47.563	11.122	94.981	17.176	21.104	2.690	10333.000
10334.000	2.330	19.940	.705	1.320	42.226	3.273	96.797	18.060	20.572	2.721	10334.000
10335.000	2.373	12.834	.632	1.130	39.685	.000	100.000	17.579	17.579	2.655	10335.000
10336.000	2.419	14.630	.829	.926	46.677	9.820	100.000	15.144	15.144	2.695	10336.000
10337.000	2.459	22.266	1.033	.889	60.251	29.781	99.809	15.406	15.524	2.883	10337.000
10338.000	2.581	30.596	1.172	1.041	71.777	46.731	100.000	3.566	3.566	3.000	10338.000
10339.000	2.474	26.143	.861	1.069	66.456	38.906	100.000	9.446	9.446	2.995	10339.000
10340.000	2.378	21.495	.787	1.173	52.585	18.507	96.487	15.582	18.039	2.770	10340.000
10341.000	2.391	16.415	1.045	1.505	41.983	2.799	98.206	16.675	17.928	2.703	10341.000
10342.000	2.386	19.187	.878	1.725	43.925	5.773	95.039	15.152	18.572	2.744	10342.000
10343.000	2.386	22.748	.768	1.685	57.923	26.357	91.794	11.754	16.555	2.825	10343.000
10344.000	2.412	25.703	.674	1.541	68.874	42.462	98.866	5.969	6.247	2.862	10344.000
10345.000	2.424	27.802	1.583	1.442	77.695	55.434	100.000	.848	.848	2.888	10345.000
10346.000	2.425	27.337	3.383	1.325	79.689	58.367	100.000	.485	.485	2.892	10346.000
10347.000	2.415	25.936	2.252	1.292	83.717	64.290	100.000	.140	.140	2.858	10347.000
10348.000	2.413	24.802	1.892	1.485	79.678	58.350	100.000	.486	.486	2.854	10348.000
10349.000	2.420	21.295	.817	1.530	74.464	58.682	100.000	1.939	1.939	2.819	10349.000
10350.000	2.432	15.551	.688	1.656	62.176	32.612	96.247	8.838	10.299	2.705	10350.000
10351.000	2.424	22.931	.670	1.738	57.750	26.103	91.820	11.510	16.205	2.878	10351.000
10352.000	2.431	26.323	.699	1.598	76.562	53.767	100.000	1.146	1.146	2.909	10352.000
10353.000	2.440	26.678	.725	1.245	83.270	63.633	100.000	.162	.162	2.950	10353.000
10354.000	2.441	26.948	.921	1.416	86.617	68.555	100.000	.052	.052	2.968	10354.000
10355.000	2.447	24.943	.942	1.353	87.301	69.561	100.000	.041	.041	2.997	10355.000
10356.000	2.444	22.292	.919	.822	78.972	57.312	100.000	.595	.595	2.927	10356.000
10357.000	2.488	23.805	.766	.757	69.878	43.939	100.000	5.239	5.239	2.992	10357.000
10358.000	2.474	23.675	.557	1.226	60.357	29.937	94.937	12.864	15.835	2.962	10358.000
10359.000	2.467	26.437	.475	1.395	57.155	25.228	93.326	13.234	17.445	2.979	10359.000
10360.000	2.484	25.137	.466	1.489	64.231	35.634	94.799	9.779	12.189	3.000	10360.000
10361.000	2.352	24.884	.688	1.597	72.471	47.752	100.000	3.068	3.068	2.704	10361.000
10362.000	2.384	26.074	.940	1.809	72.221	47.384	99.931	3.229	3.238	2.532	10362.000
10363.000	2.430	23.160	.877	2.044	63.321	34.296	91.142	8.895	12.890	2.908	10363.000
10364.000	2.465	21.238	.868	1.889	67.287	48.128	95.485	6.584	7.921	2.892	10364.000
10365.000	2.470	27.068	.895	1.720	78.638	56.888	100.000	.655	.655	3.000	10365.000
10366.000	2.429	31.688	.905	1.335	83.867	64.511	100.000	.133	.133	2.987	10366.000
10367.000	2.411	30.672	.967	1.111	87.856	78.377	100.000	.834	.834	2.834	10367.000

DEPTH FEET	FDC-L GM/CC	NEUTRON %	OHM-M	OHM/M	API U.	%	%	%	%	GM/CC	FEET
10368.000	2.405	25.265	.773	1.031	88.550	71.397	100.000	.026	.026	2.805	10368.000
10369.000	2.428	22.977	.776	1.075	85.647	67.120	100.000	.073	.073	2.908	10369.000
10370.000	2.446	22.408	.923	1.200	83.390	63.809	100.000	.156	.156	2.970	10370.000
10371.000	2.461	23.559	1.025	1.263	86.292	68.076	100.000	.059	.059	3.000	10371.000
10372.000	2.473	25.084	.825	1.361	89.968	73.471	100.000	.015	.015	3.000	10372.000
10373.000	2.474	28.794	.526	1.403	82.952	63.165	100.000	.179	.179	3.000	10373.000
10374.000	2.438	26.892	.389	1.460	77.831	55.634	100.000	.817	.817	2.930	10374.000
10375.000	2.392	24.672	.569	1.455	78.705	56.920	100.000	.642	.642	2.789	10375.000
10376.000	2.214	24.451	1.095	.918	78.857	57.143	100.000	.615	.615	2.500	10376.000
10377.000	2.116	30.768	1.213	.644	73.258	48.909	100.000	2.571	2.571	2.500	10377.000
10378.000	2.136	40.852	1.089	1.099	73.878	49.820	100.000	2.228	2.228	2.500	10378.000
10379.000	2.380	35.174	1.005	1.427	63.360	34.353	94.461	10.593	13.305	2.811	10379.000
10380.000	2.416	13.745	.621	1.365	50.199	14.999	100.000	13.750	13.750	2.679	10380.000
10381.000	2.367	13.455	.417	2.471	34.399	.000	94.325	13.443	16.902	2.666	10381.000
10382.000	2.372	15.541	.503	3.254	39.554	.000	91.824	11.768	17.144	2.696	10382.000
10383.000	2.332	19.263	.537	2.352	47.564	11.123	90.790	12.162	17.900	2.705	10383.000
10384.000	2.109	30.083	.307	1.253	58.763	27.593	94.229	13.440	17.857	2.500	10384.000
10385.000	2.159	41.504	.401	1.385	84.918	66.056	100.000	.094	.094	2.500	10385.000
10386.000	2.150	45.560	.732	1.033	78.471	56.575	100.000	.685	.685	2.500	10386.000
10387.000	2.181	40.825	.800	1.234	60.272	41.576	100.000	7.032	7.032	2.500	10387.000
10388.000	2.109	31.301	.910	1.698	61.935	42.552	90.004	5.650	6.125	2.856	10388.000
10389.000	2.117	16.102	.700	2.054	64.112	35.459	93.931	7.504	9.640	2.738	10389.000
10390.000	2.493	15.129	.400	2.005	56.274	23.933	94.702	9.475	11.700	2.701	10390.000
10391.000	2.407	17.909	.530	2.201	52.522	10.415	92.714	10.010	14.642	2.744	10391.000
10392.000	2.303	20.327	.593	2.203	49.730	14.321	91.378	11.940	17.137	2.769	10392.000
10393.000	2.354	22.213	.418	2.087	50.872	14.812	90.480	12.407	10.631	2.779	10393.000
10394.000	2.337	24.360	.515	1.817	57.873	25.109	90.883	11.609	17.016	2.754	10394.000
10395.000	2.349	27.587	.851	1.556	65.384	37.329	95.436	8.726	10.518	2.738	10395.000
10396.000	2.245	31.081	.847	1.244	74.016	50.023	100.000	2.157	2.157	2.500	10396.000
10397.000	2.151	35.742	.998	1.163	77.417	55.025	100.000	.914	.914	2.500	10397.000
10398.000	2.291	39.895	.877	1.029	66.847	39.482	100.000	8.895	8.895	2.571	10398.000
10399.000	2.368	36.592	.599	1.143	57.851	25.875	95.186	14.636	17.829	2.784	10399.000
10400.000	2.382	20.138	.659	1.496	52.387	18.216	94.832	13.621	16.842	2.752	10400.000
10401.000	2.383	18.992	.695	1.675	56.425	24.155	93.944	11.582	14.768	2.730	10401.000
10402.000	2.372	29.991	.520	1.776	70.661	45.090	99.821	4.276	4.448	2.763	10402.000
10403.000	2.394	32.858	.657	1.789	76.988	54.394	100.000	1.025	1.025	2.802	10403.000
10404.000	2.375	26.884	1.889	1.636	75.858	51.544	100.000	1.681	1.681	2.754	10404.000
10405.000	2.334	30.652	3.114	1.523	71.036	45.642	100.000	4.162	4.162	2.665	10405.000
10406.000	2.298	36.413	1.560	1.663	72.899	47.205	100.000	3.327	3.327	2.570	10406.000
10407.000	2.344	39.066	.562	1.827	73.323	49.004	100.000	2.534	2.534	2.677	10407.000
10408.000	2.434	32.901	.585	1.844	64.350	35.809	92.915	8.728	11.699	2.926	10408.000
10409.000	2.443	29.559	.698	1.783	52.331	18.133	91.389	12.990	18.688	2.938	10409.000
10410.000	2.463	32.990	.877	1.693	57.560	25.824	91.496	11.891	16.967	2.978	10410.000
10411.000	2.489	32.604	.626	1.428	68.488	41.776	99.141	6.577	6.808	3.000	10411.000
10412.000	2.481	32.640	.478	1.133	71.289	46.814	100.000	3.951	3.951	3.000	10412.000
10413.000	2.442	32.443	.685	1.243	76.038	52.997	100.000	1.312	1.312	2.940	10413.000
10414.000	2.380	29.856	1.011	1.577	64.444	35.948	94.437	9.350	11.755	2.809	10414.000
10415.000	2.373	29.535	.541	3.292	58.797	27.643	85.567	8.298	15.478	2.830	10415.000
10416.000	2.385	27.164	.242	3.415	57.844	26.242	85.293	8.324	15.728	2.855	10416.000
10417.000	2.228	33.061	.238	1.668	57.888	25.012	91.659	12.129	17.183	2.559	10417.000
10418.000	2.133	38.546	.240	1.109	61.517	31.642	95.602	13.216	15.821	2.580	10418.000
10419.000	2.087	47.254	.388	3.388	60.716	38.465	85.525	7.921	14.804	2.580	10419.000
10420.000	2.086	40.542	.831	1.788	69.443	43.299	98.886	5.146	5.577	2.500	10420.000

PHILLIPS PETROLEUM CO. 7/11

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INTO

1 DEPTH FEET	23 FDC-C GM/CC	24 NEUTRON C %	25 RHLL(C) OHM-M	32 RT OHM-M	30 GR C API U.	51 VSH %	61 SXO %	40 DVIJ %	41 BVSXO %	62 DEN(MA) GM/CC	1 DEPTH FEET
10421.000	2.033	49.164	1.559	.436	67.171	39.957	100.000	0.451	0.451	2.850	10421.000
10422.000	2.017	52.063	2.257	.571	79.966	58.773	100.000	.447	.447	2.850	10422.000
10423.000	2.196	50.129	1.990	1.622	84.893	66.019	100.000	.095	.095	2.850	10423.000
10424.000	2.449	19.955	1.153	1.312	56.351	24.046	96.671	12.056	14.721	2.817	10424.000
10425.000	2.465	10.841	.601	2.342	44.889	6.602	98.975	11.019	12.316	2.688	10425.000
10426.000	2.439	11.309	1.724	0.447	38.920	.000	86.517	7.114	12.697	2.697	10426.000
10427.000	2.449	13.417	3.500	7.717	42.970	4.368	85.925	6.975	12.796	2.730	10427.000
10428.000	2.394	22.664	2.152	2.663	53.146	19.333	87.666	10.442	17.679	2.719	10428.000
10429.000	2.241	31.130	.038	1.245	64.070	35.409	96.319	10.782	12.527	2.517	10429.000
10430.000	2.416	39.563	.496	1.690	73.172	48.783	100.000	2.622	2.622	2.867	10430.000
10431.000	2.465	34.890	.459	1.556	74.164	50.241	100.000	2.083	2.083	2.996	10431.000
10432.000	2.436	25.972	.694	1.716	77.058	54.497	100.000	1.006	1.006	2.924	10432.000
10433.000	2.262	30.660	.662	1.700	85.832	67.400	100.000	.069	.069	2.500	10433.000
10434.000	2.241	33.023	.596	1.848	84.735	65.787	100.000	.100	.100	2.500	10434.000
10435.000	2.347	37.453	.677	1.209	82.947	63.157	100.000	.180	.180	2.614	10435.000
10436.000	2.346	18.843	.034	.000	49.847	14.481	100.000	18.538	18.538	2.609	10436.000
10437.000	2.341	17.353	.920	.965	37.895	.000	100.000	20.803	20.803	2.680	10437.000
10438.000	2.319	14.929	.813	.943	34.129	.000	100.000	20.323	20.323	2.642	10438.000
10439.000	2.305	16.404	.625	.907	30.883	.000	100.000	21.498	21.498	2.648	10439.000
10440.000	2.300	17.942	.519	.715	30.618	.000	100.000	22.393	22.393	2.661	10440.000
10441.000	2.259	21.440	.538	.497	33.408	.000	100.000	25.000	25.000	2.661	10441.000
10442.000	2.230	26.334	.502	.379	37.542	.000	100.000	25.000	25.000	2.634	10442.000
10443.000	2.252	31.428	.662	.340	46.802	10.002	100.000	22.499	22.499	2.627	10443.000
10444.000	2.270	35.616	.586	.549	59.686	28.950	100.000	17.762	17.762	2.611	10444.000
10445.000	2.289	33.951	.619	.575	65.596	37.641	100.000	10.703	10.703	2.596	10445.000
10446.000	2.301	29.086	.805	.627	63.200	34.129	100.000	14.310	14.310	2.635	10446.000
10447.000	2.307	24.764	1.100	.606	58.913	27.814	100.000	18.047	18.047	2.667	10447.000
10448.000	2.279	27.410	1.427	.750	54.971	22.016	99.377	18.097	19.375	2.637	10448.000
10449.000	2.284	32.620	1.989	.914	50.702	15.739	97.691	18.743	20.579	2.667	10449.000
10450.000	2.334	30.450	3.009	.960	45.003	7.357	97.454	20.358	22.571	2.760	10450.000
10451.000	2.368	27.012	3.153	1.049	44.018	5.909	96.713	19.903	22.750	2.812	10451.000
10452.000	2.382	13.696	4.087	1.216	44.997	7.349	100.000	16.283	16.283	2.662	10452.000
10453.000	2.379	16.867	5.489	1.429	45.549	8.160	97.706	15.029	17.368	2.690	10453.000
10454.000	2.372	18.351	2.220	1.594	45.197	7.643	95.835	15.253	18.083	2.715	10454.000
10455.000	2.451	16.669	.338	1.696	44.559	6.704	97.636	14.609	16.076	2.758	10455.000
10456.000	2.488	15.815	2.080	1.494	45.608	8.246	100.000	14.888	14.888	2.774	10456.000
10457.000	2.418	12.080	4.807	1.320	47.871	11.576	100.000	13.525	13.525	2.665	10457.000
10458.000	2.396	15.750	2.034	1.466	49.038	13.291	97.986	14.164	15.366	2.693	10458.000
10459.000	2.470	20.100	.312	2.357	48.750	12.868	92.108	11.529	16.017	2.850	10459.000
10460.000	2.502	12.189	.396	2.355	46.746	9.920	98.656	10.946	11.555	2.731	10460.000
10461.000	2.494	6.592	.391	2.026	44.291	6.310	100.000	9.772	9.772	2.656	10461.000
10462.000	2.323	0.401	.407	1.895	43.826	5.627	97.432	13.943	15.472	2.578	10462.000
10463.000	2.311	27.673	.478	2.310	56.860	24.794	88.712	10.330	16.679	2.714	10463.000
10464.000	2.322	33.237	2.134	1.752	61.790	32.044	91.481	18.400	14.849	2.707	10464.000
10465.000	2.361	26.114	4.649	1.449	62.350	32.868	93.552	11.119	14.517	2.777	10465.000
10466.000	2.353	23.630	2.761	1.319	59.941	29.325	93.658	12.733	16.548	2.767	10466.000
10467.000	2.441	21.594	.760	3.685	53.885	20.419	86.246	8.421	15.220	2.870	10467.000
10468.000	2.476	12.264	.411	4.629	50.051	14.781	91.103	7.084	10.283	2.717	10468.000
10469.000	2.432	8.559	.337	2.479	42.327	3.422	98.872	12.211	12.777	2.647	10469.000
10470.000	2.346	14.493	.392	1.815	58.193	26.754	93.956	10.216	13.110	2.630	10470.000
10471.000	2.275	35.493	.542	1.664	59.388	43.099	98.502	5.412	5.749	2.542	10471.000
10472.000	2.197	36.232	.513	.925	82.018	61.791	100.000	.241	.241	2.500	10472.000
10473.000	2.116	31.870	.420	1.010	69.880	43.941	100.000	5.230	5.230	2.500	10473.000

1	23	24	25	32	30	51	61	40	41	62	11
DEPTH FEET	FDC-C GM/CC	NEUTRON C %	RML(C) OHM-M	RT OHM/M	GR C API U.	VSH %	SXD %	BVW %	BVSXD %	DEN(MA) GM/CC	DEPTH FEET
10474.000	2.238	43.089	.407	.792	69.546	43.450	100.000	5.582	5.582	2.500	10474.000
10475.000	2.335	41.060	.440	.669	73.273	40.930	100.000	2.563	2.563	2.654	10475.000
10476.000	2.400	36.444	.551	.892	75.112	51.635	100.000	1.656	1.656	2.823	10476.000
10477.000	2.422	34.311	.631	.535	74.295	50.434	100.000	2.019	2.019	2.882	10477.000
10478.000	2.430	30.985	.590	.624	76.388	53.512	100.000	1.199	1.199	2.927	10478.000
10479.000	2.437	27.665	1.213	1.034	76.681	53.825	100.000	1.135	1.135	2.925	10479.000
10480.000	2.447	24.498	2.560	1.251	74.578	50.850	100.000	1.886	1.886	2.949	10480.000
10481.000	2.453	19.104	2.156	1.450	70.194	44.404	100.000	4.928	4.928	2.778	10481.000
10482.000	2.410	21.347	1.295	1.574	70.616	45.024	100.000	4.532	4.532	2.799	10482.000
10483.000	2.414	28.169	.997	1.547	76.811	54.133	100.000	1.074	1.074	2.859	10483.000
10484.000	2.439	25.327	.930	1.424	81.256	60.671	100.000	.304	.304	2.943	10484.000
10485.000	2.445	26.297	.850	1.148	84.810	65.896	100.000	.098	.098	2.974	10485.000
10486.000	2.436	25.454	.815	1.171	84.700	65.735	100.000	.101	.101	2.939	10486.000
10487.000	2.448	27.031	.703	.913	82.190	62.044	100.000	.228	.228	2.975	10487.000
10488.000	2.439	26.227	.711	.826	79.873	58.637	100.000	.459	.459	2.936	10488.000
10489.000	2.416	23.507	.686	.762	77.025	54.449	100.000	1.015	1.015	2.865	10489.000
10490.000	2.408	19.981	.626	.769	74.667	50.980	100.000	1.846	1.846	2.754	10490.000
10491.000	2.458	18.318	.847	.888	74.199	50.292	100.000	2.065	2.065	2.793	10491.000
10492.000	2.497	18.619	1.462	1.270	79.905	58.683	100.000	.455	.455	2.867	10492.000
10493.000	2.528	17.699	1.895	1.588	78.217	56.201	100.000	.735	.735	2.912	10493.000
10494.000	2.505	17.418	1.222	1.826	71.368	46.129	99.265	3.746	3.858	2.844	10494.000
10495.000	2.452	17.316	.654	1.789	61.965	32.301	95.134	9.072	11.075	2.769	10495.000
10496.000	2.419	21.166	.650	1.546	65.168	37.012	95.264	8.902	10.809	2.819	10496.000
10497.000	2.426	27.093	.743	1.307	72.706	48.098	100.000	2.912	2.912	2.893	10497.000
10498.000	2.413	25.107	.779	.871	76.353	53.461	100.000	1.210	1.210	2.856	10498.000
10499.000	2.418	24.206	.765	.654	79.544	58.153	100.000	.505	.505	2.871	10499.000
10500.000	2.433	25.258	.765	.619	81.597	61.172	100.000	.274	.274	2.920	10500.000
10501.000	2.437	23.932	.927	.633	81.726	61.362	100.000	.264	.264	2.934	10501.000
10502.000	2.466	22.013	1.231	1.053	76.193	53.224	100.000	1.261	1.261	2.944	10502.000
10503.000	2.494	18.490	1.293	.909	70.019	44.146	100.000	5.099	5.099	2.852	10503.000
10504.000	2.508	15.628	.923	1.236	60.978	30.850	100.000	9.773	9.773	2.793	10504.000
10505.000	2.488	19.692	.728	1.275	63.924	35.182	96.842	10.308	11.720	2.869	10505.000
10506.000	2.472	22.826	1.059	1.161	73.127	48.716	100.000	2.649	2.649	2.973	10506.000
10507.000	2.470	24.340	1.417	1.276	79.436	57.994	100.000	.521	.521	3.000	10507.000
10508.000	2.486	23.035	3.231	1.245	83.556	64.053	100.000	.148	.148	3.000	10508.000
10509.000	2.497	19.039	8.441	1.310	74.799	51.175	100.000	1.788	1.788	2.885	10509.000
10510.000	2.518	17.022	11.578	1.724	59.588	28.677	96.318	9.312	10.820	2.832	10510.000
10511.000	2.529	8.740	8.529	2.351	52.527	18.423	100.000	7.161	7.161	2.698	10511.000
10512.000	2.504	8.136	2.844	2.449	46.903	10.152	100.000	9.198	9.198	2.681	10512.000
10513.000	2.478	9.241	.734	2.068	46.552	9.636	100.000	10.652	10.652	2.676	10513.000
10514.000	2.433	11.675	.842	1.522	50.499	15.440	100.000	12.100	12.100	2.667	10514.000
10515.000	2.420	19.757	1.492	1.144	66.768	39.352	99.641	8.856	8.985	2.771	10515.000
10516.000	2.427	23.094	1.978	1.227	72.081	47.177	100.000	3.341	3.341	2.894	10516.000
10517.000	2.499	20.472	2.585	1.278	63.688	34.718	96.539	10.539	12.134	2.904	10517.000
10518.000	2.537	11.681	2.885	1.574	53.353	19.637	100.000	8.779	8.779	2.751	10518.000
10519.000	2.547	10.417	2.637	1.914	49.340	13.735	100.000	8.914	8.914	2.742	10519.000
10520.000	2.531	12.784	2.478	2.199	52.497	18.378	98.837	9.117	9.553	2.787	10520.000
10521.000	2.559	13.712	2.419	2.351	54.495	21.316	97.195	8.359	9.366	2.816	10521.000
10522.000	2.566	11.998	2.800	2.255	55.648	23.012	99.165	7.583	7.842	2.789	10522.000
10523.000	2.567	11.125	1.674	2.114	55.185	22.214	100.000	7.402	7.402	2.773	10523.000
10524.000	2.555	10.649	1.641	1.888	53.285	19.536	100.000	7.755	7.755	2.752	10524.000
10525.000	2.575	17.200	2.002	1.818	60.236	29.759	95.866	8.801	10.420	2.868	10525.000
10526.000	2.587	17.795	1.961	1.750	70.132	44.312	98.668	4.665	4.922	2.854	10526.000

DEPTH FEET	FIDUC G/CC	NEUTRON C %	RMILL (C) OHF	RT OHM/M	INT00210		40 BVU %	41 BVSKD %	62 DEN (MA) GM/CC	DEPTH FEET	
					32 GR C API U.	51 VSH %					
10527.000	2.509	17.829	.936	1.905	68.015	42.375	96.793	5.427	6.183	2.860	10527.000
10528.000	2.495	19.197	.431	1.482	67.598	40.585	97.996	7.125	7.726	2.871	10528.000
10529.000	2.366	22.818	.849	1.242	66.212	38.547	98.315	8.999	9.632	2.764	10529.000
10530.000	2.326	25.615	3.738	1.512	67.504	40.447	97.722	7.135	7.824	2.672	10530.000
10531.000	2.270	29.176	7.335	1.939	62.525	33.125	98.979	9.525	13.902	2.603	10531.000
10532.000	2.475	12.847	6.859	1.922	42.571	3.780	100.000	13.874	13.874	2.718	10532.000
10533.000	2.503	6.342	3.758	2.080	35.954	.000	100.000	10.385	10.385	2.670	10533.000
10534.000	2.473	7.667	1.616	2.278	36.340	.000	100.000	11.890	11.890	2.665	10534.000
10535.000	2.448	11.430	.999	2.720	44.799	7.857	96.420	10.969	12.687	2.686	10535.000
10536.000	2.412	20.810	1.615	1.762	57.144	25.211	92.737	11.189	15.129	2.805	10536.000
10537.000	2.386	22.393	1.470	1.472	64.937	36.673	95.487	9.285	11.168	2.805	10537.000
10538.000	2.408	21.862	.988	1.878	67.454	40.374	100.000	8.872	8.872	2.809	10538.000
10539.000	2.404	26.694	.770	.819	73.763	49.651	100.000	2.289	2.289	2.836	10539.000
10540.000	2.397	24.651	.658	.646	76.197	53.231	100.000	1.260	1.260	2.812	10540.000
10541.000	2.381	23.269	.745	.810	74.272	58.480	100.000	2.030	2.030	2.772	10541.000
10542.000	2.376	28.013	1.328	.747	75.417	52.883	100.000	1.535	1.535	2.755	10542.000
10543.000	2.372	28.999	1.817	.956	75.796	52.641	100.000	1.395	1.395	2.741	10543.000
10544.000	2.462	14.485	1.738	1.147	72.169	47.387	100.000	3.277	3.277	2.699	10544.000
10545.000	2.466	10.964	.989	1.299	57.465	25.684	100.000	8.722	8.722	2.673	10545.000
10546.000	2.468	11.486	.823	1.145	54.284	20.880	100.000	9.859	9.859	2.684	10546.000
10547.000	2.453	12.583	1.782	1.158	51.131	16.369	100.000	11.756	11.756	2.689	10547.000
10548.000	2.446	13.646	2.153	.981	49.215	13.552	100.000	13.184	13.184	2.700	10548.000
10549.000	2.436	12.996	1.184	.882	52.986	18.988	100.000	11.988	11.988	2.681	10549.000
10550.000	2.379	13.583	.679	.678	51.813	16.196	100.000	14.555	14.555	2.649	10550.000
10551.000	2.354	12.382	.928	.568	48.888	.812	100.000	17.916	17.916	2.638	10551.000
10552.000	2.334	11.784	1.491	.579	38.433	.000	100.000	18.266	18.266	2.620	10552.000
10553.000	2.337	11.751	1.767	.762	33.468	.000	100.000	18.175	18.175	2.623	10553.000
10554.000	2.387	13.253	1.293	.779	36.665	.000	100.000	17.358	17.358	2.668	10554.000
10555.000	2.416	13.896	1.187	.834	48.234	.344	100.000	16.385	16.385	2.684	10555.000
10556.000	2.423	11.726	1.873	.618	42.191	3.221	100.000	14.838	14.838	2.672	10556.000
10557.000	2.462	14.495	2.699	1.891	47.384	18.742	100.000	13.841	13.841	2.727	10557.000
10558.000	2.497	16.854	1.739	1.262	53.142	19.327	100.000	13.187	13.187	2.802	10558.000
10559.000	2.453	13.674	.959	1.320	54.392	21.165	100.000	11.887	11.887	2.788	10559.000
10560.000	2.422	14.195	1.688	1.513	49.686	14.244	99.850	13.281	13.797	2.691	10560.000
10561.000	2.414	14.536	2.841	1.879	49.232	13.577	96.579	12.167	13.985	2.692	10561.000
10562.000	2.536	18.959	3.833	2.359	45.388	7.912	100.000	10.686	10.686	2.743	10562.000
10563.000	2.605	8.498	4.995	2.846	42.785	4.896	100.000	8.664	8.664	2.768	10563.000
10564.000	2.621	5.847	6.856	3.588	39.534	.000	100.000	7.352	7.352	2.746	10564.000