Amoco Australia Petroleum Company

BASS BASIN

COMPUTER LOG ANALYSIS [illegible]
PART-3
POONBOON-1

Aug. 1987	R-87-051, Appendix F
P. Stokes	Enclosure: 16

OR-277

313764

5 cm

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                         AMOCO PRODUCTION COMPANY

  ESSO                            ' POONBOON 1                                Z11120
****************************************************************************
PLOT SCALE        = 1:    1000.0000
DEPTH REFERENCE = MDEP
UNITS             = MTRS
*************** PROBABLE PAY ***********************************************
   ZONE         ZONE TOP          ZONE BOT          NET            AVE.        AVE.
                                                PROBABLE PAY   POROSITY        SW
1  ALL        1892.8311        3265.9717
2
3
4
5
6
7
8
9
10
TOTAL PROBABLE PAY IN ACTIVE INTERVAL
      1859.3025      3265.9717
************** POSSIBLE PAY ************************************************
   ZONE           ZONE TOP        ZONE BOT          NET            AVE.          AVE.
                                                POSSIBLE PAY,  POROSITY       SW
1  ALL        1892.8311        3265.9717       1.5240         13.6411        69.9419
2
3
4
5
6
7
8
9
10
TOTAL POSSIBLE PAY IN ACTIVE INTERVAL
      1859.3025      3265.9717           1.5240        13.6411        69.9419
*********** NET LITHOLOGY THICKNESS  **************************************
*************** BY DEFINED ZONES      **************************************
       NET SAND       NET SHSD        NET SHALE     NET COAL   NET CARBONATE
1      385.8813       252.9871        685.1987       77.7249      3.0480
2
3
4
5
6
7
8
9
10
TOTAL NET LITHOLOGY IN ACTIVE INTERVAL
ACTIVE TOP=   1859.3025,  ACTIVE BOT =   3265.9717
      385.8813       252.9871        685.1987       77.7249         3.0480
****************************************************************************
*     SUMMARY OF IMPORTANT CONSTANTS USED AND/OR COMPUTED IN THIS ANALYSIS     *
* ------------------------------------------------------------                  *
* ----------------PAY CUTOFFS------------------------------                   *
* THICKNESS GREATER THAN 3 FEET (1 METER)                                         *
* PROBABLE PAY: SW LESS THAN 50%                                                   *
* POSSIBLE PAY: SW GREATER THAN 50% BUT LESS THAN 80%                              *
* ------------CONSTANTS USED FOR SW CALCULATION------------                      *
*     A=      0.8100                                                               *
*     M=           2                                                               *
*     N=           2                                                               *
*  METHOD USED TO COMPUTE VSH                                                      *
*   1. GAMMA RAY          =YES                                                     *
*   2. SP                 =NO                                                      *
*   3. RHOMAA             =NO                                                      *
*   4. TMAA               =NO                                                      *
*  METHOD USED TO COMPUTE SW                                                       *
*   1. ARCHIE=            =NO                                                      *
*   2. DUAL WATER         =NO                                                      *
*   3. MODIFIED SIMANDOUX=NO                                                       *
* ---------------- CURVE DEFINITIONS -------------------                         *
* GRCORR : GR CORRECTED FOR HOLE SIZE AND MUDWEIGHT                                *
* SPCORR : SP CORRECTED FOR DRIFT                                                  *
* CL     : CALIPER FROM RESISTIVITY TOOL                                           *
* VSH    : VOLUME OF SHALE                                                         *
* RT     : DEEP RESISTIVITY - CORRECTED FOR BOREHOLE ENVIRONMENT                   *
* RXO    : SHALLOW RESISTIVITY - CORRECTED FOR BOREHOLE ENVIRONMENT                *
* PHIE   : PHIE - PHIND X (1-VSH)                                                  *
* BVW    : PHIE X SW                                                               *
* BVWXO  : PHIE X SXO                                                              *
****************************************************************************
DATE=08/29/87
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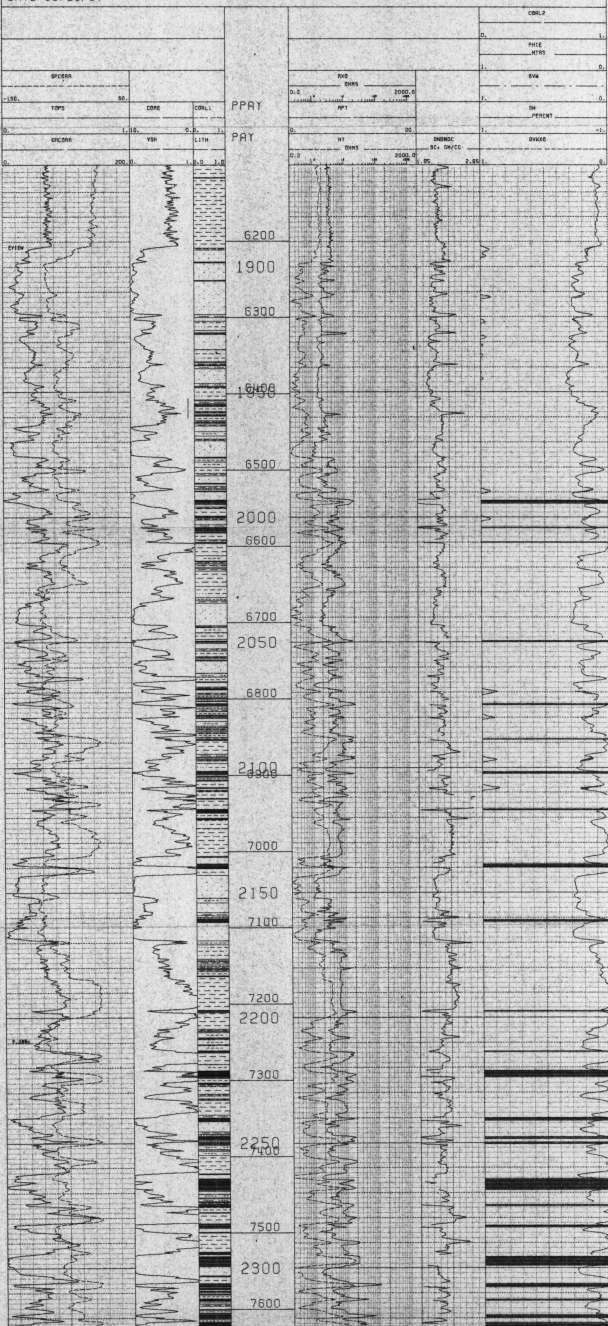

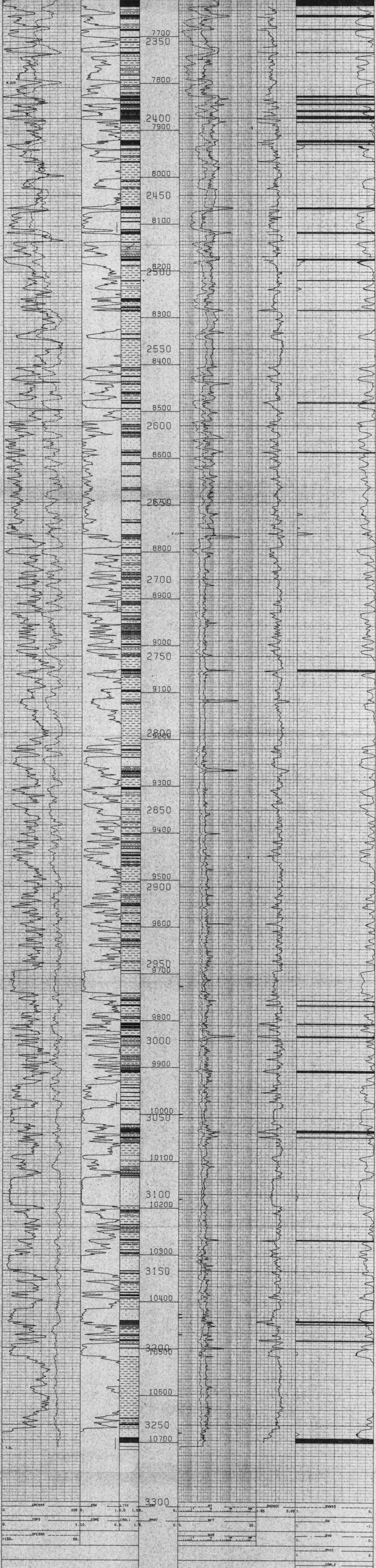

ESSO POONBOON 1 Z11120

AMOCO PRODUCTION COMPANY

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  ESSO                               POONBOON 1                            Z11120
*****************************************************************************
PLOT SCALE      = 1:    1000.0000
DEPTH REFERENCE = MDEP
UNITS           = MTRS
*************** PROBABLE PAY ************************************************
   ZONE        ZONE TOP       ZONE BOT         NET             AVE.       AVE.
                                          PROBABLE PAY  POROSITY       SW
1  ALL        1892.8311      3265.9717
2
3
4
5
6
7
8
9
10
TOTAL PROBABLE PAY IN ACTIVE INTERVAL
      1859.3025      3265.9717
************** POSSIBLE PAY *************************************************
   ZONE         ZONE TOP       ZONE BOT          NET             AVE.        AVE.
                                           POSSIBLE PAY,  POROSITY       SW
1  ALL        1892.8311      3265.9717     1.5240        13.6411       69.9419
2
3
4
5
6
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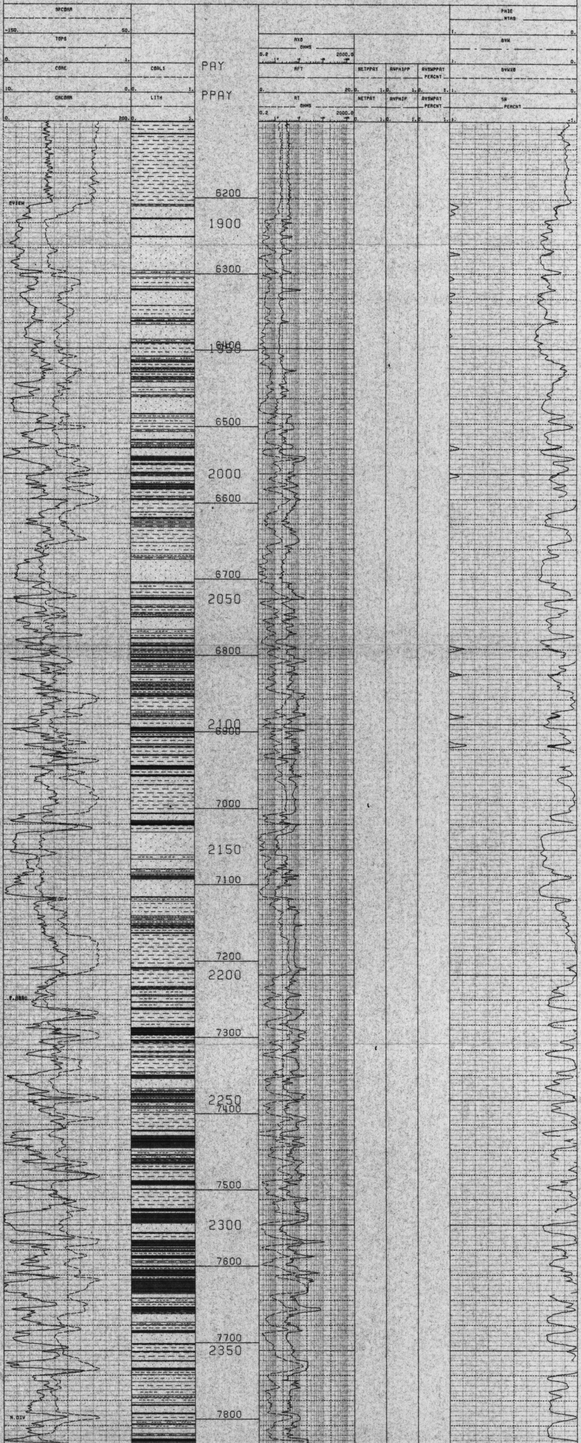
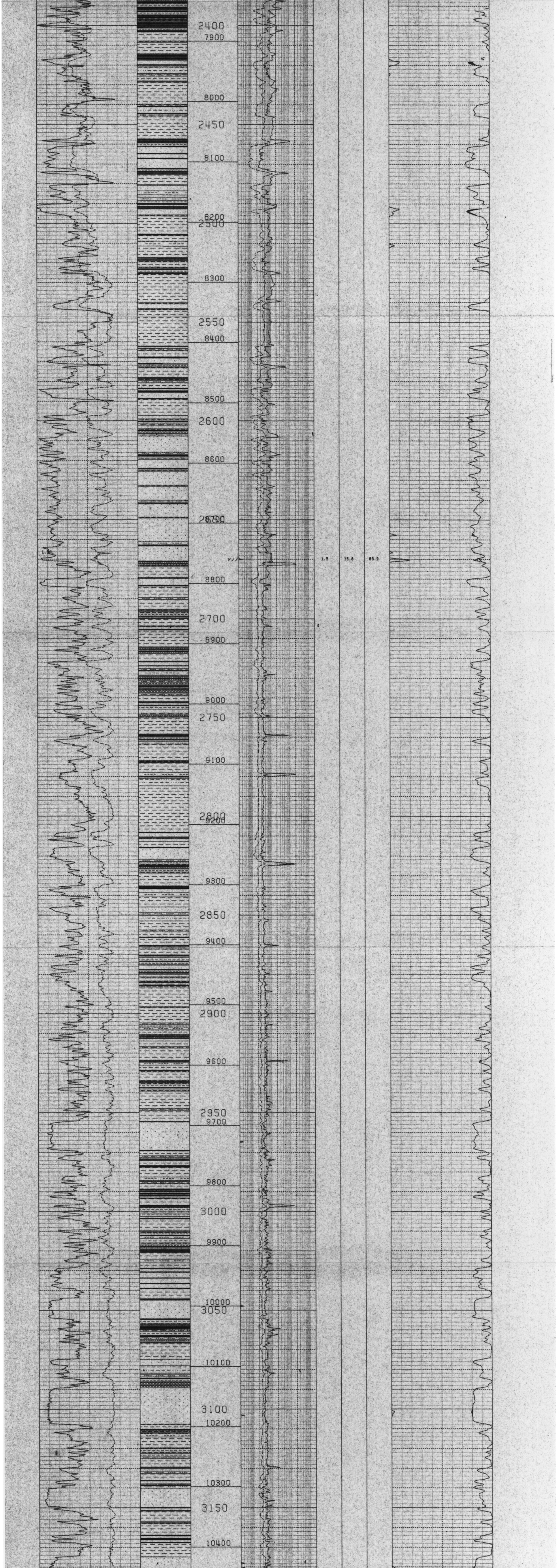
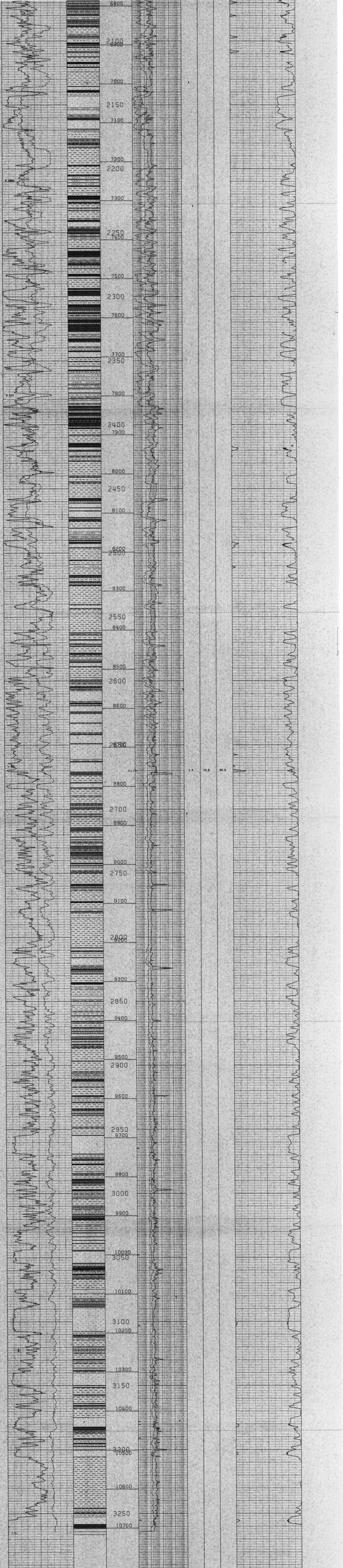
8
9
10
TOTAL POSSIBLE PAY IN ACTIVE INTERVAL
      1859.3025      3265.9717         1.5240        13.6411         69.9419
*********** NET LITHOLOGY THICKNESS  ***************************************
*************** BY DEFINED ZONES      ***************************************
        NET SAND       NET SHSD       NET SHALE    NET COAL   NET CARBONATE
1      385.8813       252.9871       685.1987       77.7249      3.0480
2
3
4
5
6
7
8
9
10
TOTAL NET LITHOLOGY IN ACTIVE INTERVAL
ACTIVE TOP=   1859.3025,  ACTIVE BOT =   3265.9717
       385.8813       252.9871       685.1987       77.7249         3.0480
*****************************************************************************
*     SUMMARY OF IMPORTANT CONSTANTS USED AND/OR COMPUTED IN THIS ANALYSIS     *
* -----------------------------------------------------------               *
* -----------------PAY CUTOFFS---------------------------------             *
* THICKNESS GREATER THAN 3 FEET (1 METER)                                   *
* PROBABLE PAY: SW LESS THAN 50%                                            *
* POSSIBLE PAY: SW GREATER THAN 50% BUT LESS THAN 80%                       *
* ------------CONSTANTS USED FOR SW CALCULATION------------                 *
*     A=      0.8100                                                        *
*     M=           2                                                        *
*     N=           2                                                        *
*  METHOD USED TO COMPUTE VSH                                               *
*   1. GAMMA RAY          =YES                                              *
*   2. SP                 =NO                                               *
*   3. RHOMAA             =NO                                               *
*   4. TMAA               =NO                                               *
*  METHOD USED TO COMPUTE SW                                                *
*   1. ARCHIE=            =NO                                               *
*   2. DUAL WATER         =NO                                               *
*   3. MODIFIED SIMANDOUX=NO                                                *
* ---------------- CURVE DEFINITIONS -------------------                    *
* GRCORR : GR CORRECTED FOR.HOLE SIZE AND MUDWEIGHT                         *
* SPCORR : SP CORRECTED FOR DRIFT                                           *
* CL     : CALIPER FROM RESISTIVITY TOOL                                    *
* VSH    : VOLUME OF SHALE                                                  *
* RT     : DEEP RESISTIVITY - CORRECTED FOR BOREHOLE ENVIRONMENT            *
* RXO    : SHALLOW RESISTIVITY - CORRECTED FOR BOREHOLE ENVIRONMENT         *
* PHIE   : PHIE - PHIND X (1-VSH)                                           *
* BVW    : PHIE X SW                                                        *
* BVWXO  : PHIE X SXO                                                       *
*****************************************************************************
DATE=08/29/87
```







ESSO POONBOON 1 Z11120

5 cm

Amoco Australia Petroleum Company

BASS BASIN

COMPUTER LOG ANALYSIS DISPLAYS
PART- 4
POONBOON-1

Aug. 1987	R-87-05", Appendix F
P. Stokes	Enclosure: 16

OR-277

313765

5 cm

AMOCO PRODUCTION COMPANY

ESSO POONBOON 1 Z11120

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******** RESERVOIR QUALITY PLOT *******************
CUTT-OFFS: VSH <= 50%, EFFECTIVE POROSITY >=      15.0000
NET THICKNESS =      389.5391  &UNITS
AVG. EFFEC. POR =       20.9016
DATE=09/05/87
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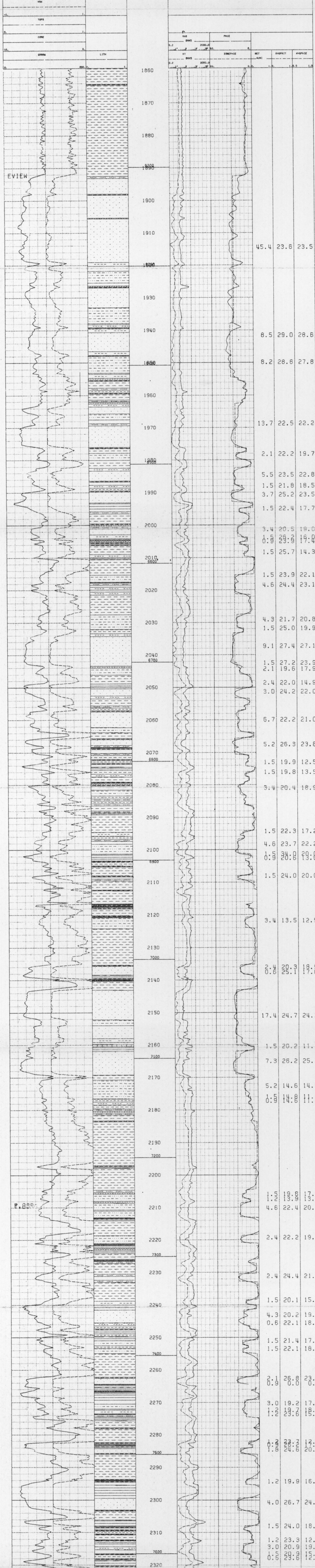
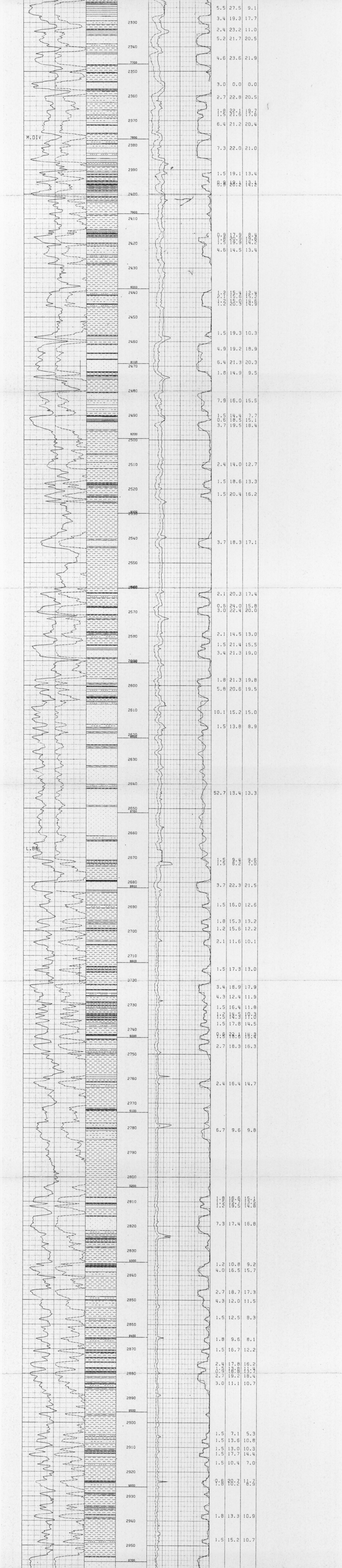
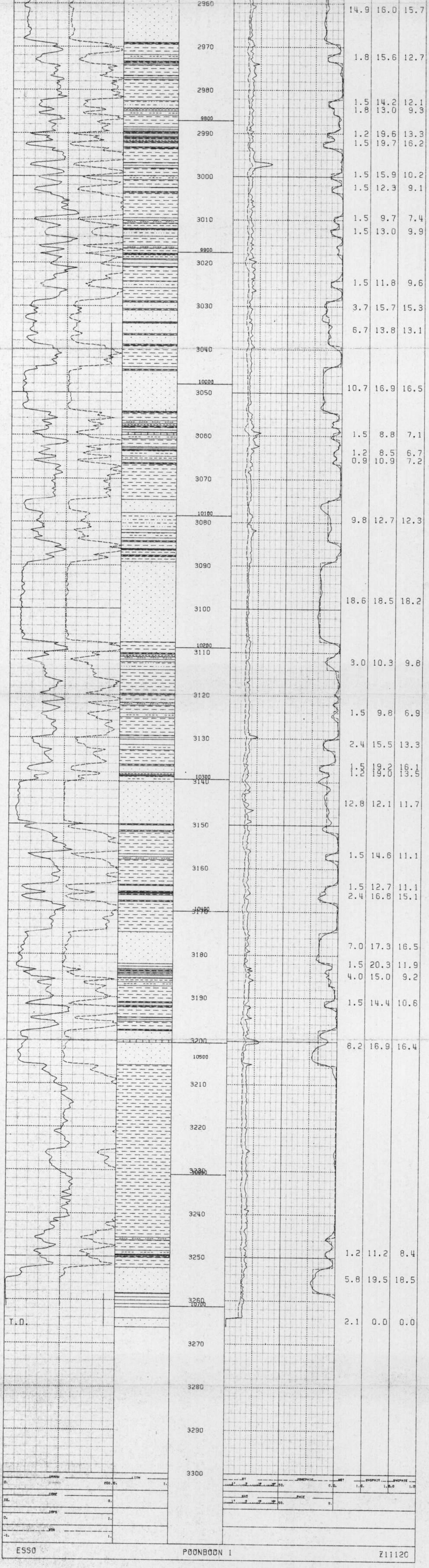


NET	AVGPHIT	AVGPHIE
45.4	23.6	23.5
8.5	29.0	28.6
8.2	28.6	27.8
13.7	22.5	22.2
2.1	22.2	19.7
5.5	23.5	22.8
1.5	21.8	18.5
3.7	25.2	23.5
1.5	22.4	17.7
3.4	20.5	19.0
1.5	26.2	16.0
0.9	23.9	17.4
1.5	25.7	14.3
1.5	23.9	22.1
4.6	24.4	23.1
4.3	21.7	20.8
1.5	25.0	19.9
9.1	27.4	27.1
1.5	27.2	23.9
2.1	19.6	17.9
2.4	22.0	14.9
3.0	24.2	22.0
6.7	22.2	21.0
5.2	26.3	23.8
1.5	19.9	12.5
1.5	19.8	13.5
3.4	20.4	18.9
1.5	22.3	17.2
4.6	23.7	22.2
1.5	34.0	20.0
0.9	20.6	13.0
1.5	24.0	20.0
3.4	13.5	12.5
2.4	20.3	18.9
0.6	25.1	17.0
17.4	24.7	24.3
1.5	20.2	11.7
7.3	26.2	25.1
5.2	14.6	14.0
1.5	14.8	11.1
0.9	14.6	11.0
1.5	19.8	17.5
1.2	13.9	13.2
4.6	22.4	20.9
2.4	22.2	19.4
2.4	24.4	21.6
1.5	20.1	15.0
4.3	20.2	19.1
0.6	22.1	18.9
1.5	21.4	17.5
1.5	22.1	18.7
2.1	26.8	23.6
0.9	0.0	0.0
3.0	19.2	17.9
1.2	19.7	18.8
1.2	23.6	15.9
1.2	23.7	12.4
0.9	26.2	17.9
1.8	24.6	20.6
1.2	19.9	16.7
4.0	26.7	24.5
1.5	24.0	18.4
1.2	23.3	12.4
3.0	20.9	19.0
1.5	20.9	15.1
0.5	23.6	12.9





Amoco Australia Petroleum Company

BASS BASIN

COMPUTER LOG ANALYSIS DISPLAYS
POONBOON-1
PART-5

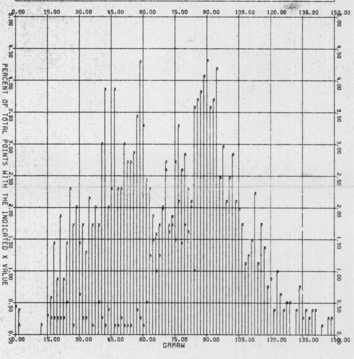
Aug. 1987	[illegible], Appendix F
P. Stokes	Enclosure: 16

OR-277

5 cm

313706

```
  ESSO                          POONBOON 1                         Z11120
GAMMA RAY HISTOGRAM
XYTOP= 6102.00 XYBOT=10698.00 HOLGATE=NO   DATE=09/03/87
SYMBOL=X CONDITIONS=(XPLTRES.EQ.1,SAW.EQ.3)
   702 SYMBOL 'X' POINTS AVAILABLE.
SYMBOL=O CONDITIONS=(XPLTRES.NE.1,SAW.EQ.3)
   815 SYMBOL 'O' POINTS AVAILABLE.
AVERAGE GRRAW =      71.4656  XMODE=        0.0     YMODE=      4.2945
JOB NAME=POONOOBB,  PLOT TAPE VOL. SER.=TD8740
```



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  ESSO                          POONBOON 1                         Z11120
EDITED GAMMA RAY HISTOGRAM
XYTOP= 6102.00 XYBOT=10713.00 HOLGATE=NO   DATE=09/03/87
SYMBOL=X CONDITIONS=(XPLTRES.EQ.1,SAW.EQ.3)
   704 SYMBOL 'X' POINTS AVAILABLE.
SYMBOL=O CONDITIONS=(XPLTRES.NE.1,SAW.EQ.3)
   830 SYMBOL 'O' POINTS AVAILABLE.
AVERAGE GRCORR=      58.3319  XMODE=        0.0     YMODE=      6.0241
JOB NAME=POONOOBB,  PLOT TAPE VOL. SER.=TD8740
```
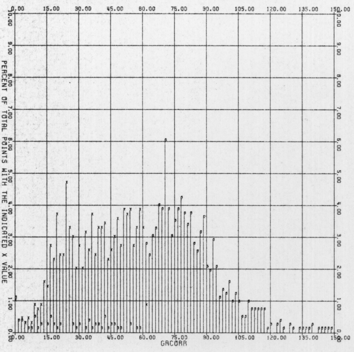
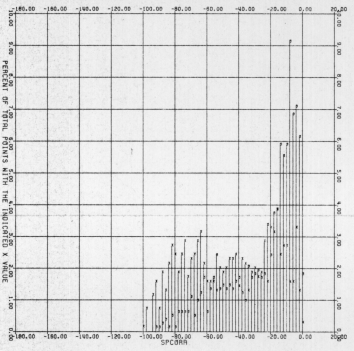
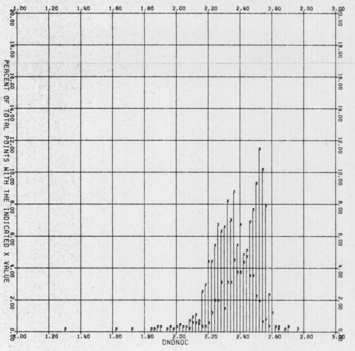



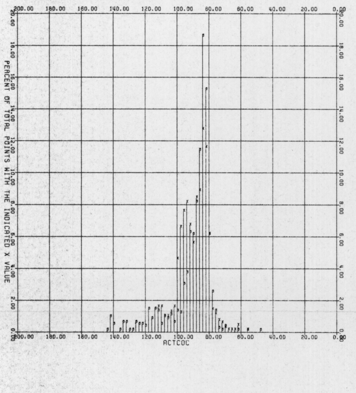
```
  ESSO                          POONBOON 1                         Z11120
SP HISTOGRAM
XYTOP= 6102.00 XYBOT=10710.00 HOLGATE=NO   DATE=09/03/87
SYMBOL=X CONDITIONS=(XPLTRES.EQ.1,SAW.EQ.3)
   703 SYMBOL 'X' POINTS AVAILABLE.
SYMBOL=O CONDITIONS=(XPLTRES.NE.1,SAW.EQ.3)
   834 SYMBOL 'O' POINTS AVAILABLE.
AVERAGE SPCORR=     -34.4011  XMODE=        0.0     YMODE=      9.1127
JOB NAME=POONOOBB,  PLOT TAPE VOL. SER.=TD8740
```



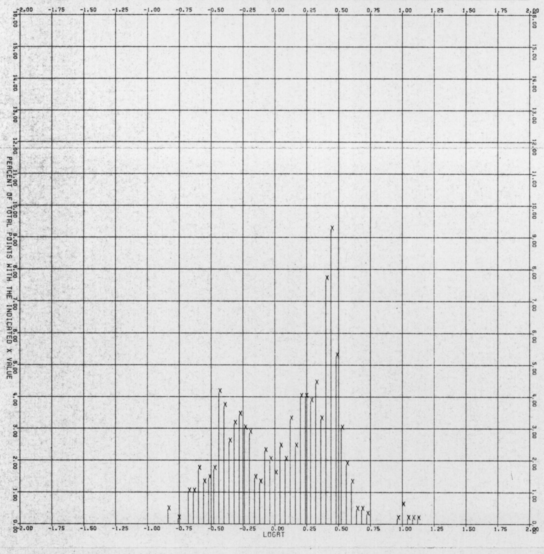
```
  ESSO                          POONBOON 1                         Z11120
BULK DENSITY HISTOGRAM
XTTOP= 6102.00 XYBOT=10698.00 HOLGATE=NO   DATE=09/03/87
SYMBOL=X CONDITIONS=(XPLTRES.EQ.1,SAW.EQ.3)
   688 SYMBOL 'X' POINTS AVAILABLE.
SYMBOL=O CONDITIONS=(XPLTRES.NE.1,SAW.EQ.3)
   790 SYMBOL 'O' POINTS AVAILABLE.
AVERAGE DNDNOC=       2.3912  XMODE=        0.0     YMODE=     11.3924
JOB NAME=POONOOBB,  PLOT TAPE VOL. SER.=TD8740
```



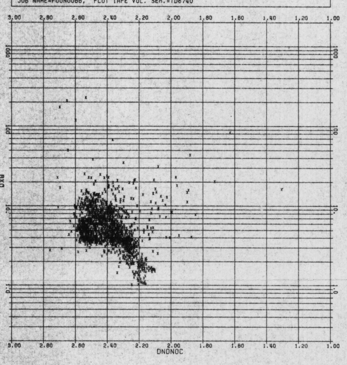
```
  ESSO                          POONBOON 1                         Z11120
SONIC TRAVEL TIME HISTOGRAM
XTTOP= 6102.00 XYBOT=10710.00 HOLGATE=NO   DATE=09/03/87
SYMBOL=X CONDITIONS=(XPLTRES.EQ.1,SAW.EQ.3)
   700 SYMBOL 'X' POINTS AVAILABLE.
SYMBOL=O CONDITIONS=(XPLTRES.NE.1,SAW.EQ.3)
   834 SYMBOL 'O' POINTS AVAILABLE.
AVERAGE ACTCOC=      88.9776  XMODE=        0.0     YMODE=     18.5851
JOB NAME=POONOOBB,  PLOT TAPE VOL. SER.=TD8740
```



```
  ESSO                               POONBOON 1                              Z11120
SONIC TRAVEL TIME HISTOGRAM
XYTOP= 6210.00 XYBOT=10713.00 HOLGATE=NO   DATE=09/03/87
SYMBOL=X CONDITIONS=(SAW.EQ.3,XPLTRES.EQ.1)
   704 SYMBOL 'X' POINTS AVAILABLE.
AVERAGE LOGRT =        0.1019  XMODE=         0.4610  YMODE=          9.2329
JOB NAME=POONOOBB,   PLOT TAPE VOL. SER.=TD8740
```



```
  ESSO                               POONBOON 1                              Z11120
DENSITY VS RESISTIVITY PLOT FOR COAL IDENTIFICATION
XYTOP= 6102.00 XYBOT=10698.00 HOLGATE=NO   DATE=09/03/87
SYMBOL=X CONDITIONS=(SAW.EQ.9)
  1478 SYMBOL 'X' POINTS AVAIL AVERAGE DNDNOC=      2.39 AVERAGE RXO   =      6.34
JOB NAME=POONOOBB,   PLOT TAPE VOL. SER.=TD8740
```



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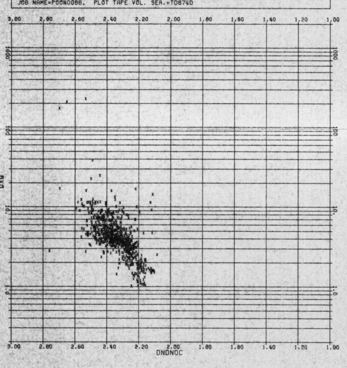
  ESSO                               POONBOON 1                              Z11120
DENSITY VS RESISTIVITY - RESERVOIR ROCKS ONLY
XYTOP= 6210.00 XYBOT=10689.00 HOLGATE=NO   DATE=09/03/87
SYMBOL=X CONDITIONS=(XPLTRES.EQ.1,SAW.EQ.3)
   688 SYMBOL 'X' POINTS AVAIL AVERAGE DNDNOC=      2.34 AVERAGE RXO   =      5.43
JOB NAME=POONOOBB,   PLOT TAPE VOL. SER.=TD8740
```



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  ESSO                               POONBOON 1                              Z11120
DENSITY VS RESISTIVITY - NON-RESERVOIR ROCKS ONLY
XYTOP= 6102.00 XYBOT=10698.00 HOLGATE=NO   DATE=09/03/87
SYMBOL=X CONDITIONS=(XPLTRES.NE.1,SAW.EQ.3)
   790 SYMBOL 'X' POINTS AVAIL AVERAGE DNDNOC=      2.44 AVERAGE RXO   =      7.14
SYMBOL=_ CONDITIONS=(XPLTRES.NE.1,COALFLAG.EQ.1,SAW.EQ.3)
    50 SYMBOL '_' POINTS AVAIL AVERAGE DNDNOC=      2.09 AVERAGE RXO   =     12.05
JOB NAME=POONOOBB,   PLOT TAPE VOL. SER.=TD8740
```

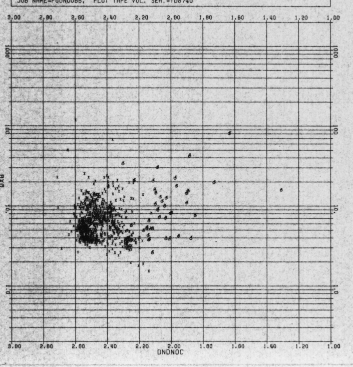

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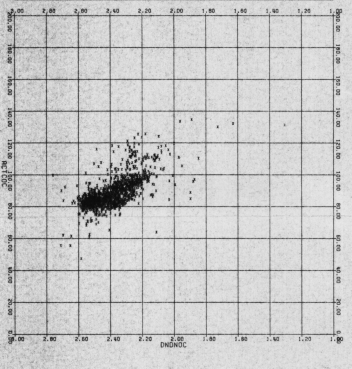
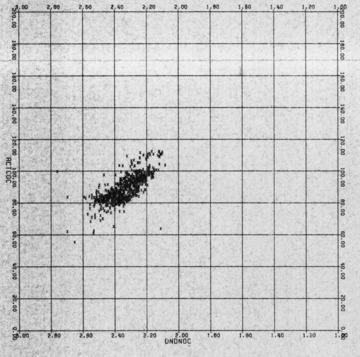
  ESSO                               POONBOON 1                              Z11120
DENSITY VS SONIC LOG - ALL ROCKS
XYTOP= 6102.00 XYBOT=10698.00 HOLGATE=NO   DATE=09/03/87
SYMBOL=X CONDITIONS=(SAW.EQ.3)
  1478 SYMBOL 'X' POINTS AVAIL AVERAGE DNDNOC=      2.39 AVERAGE ACTCOC=    87.96
JOB NAME=POONOOBB,   PLOT TAPE VOL. SER.=TD8740
```



```
  ESSO                               POONBOON 1                              Z11120
DENSITY VS SONIC LOG - RESERVOIR ROCKS ONLY
XYTOP= 6210.00 XYBOT=10689.00 HOLGATE=NO   DATE=09/03/87
SYMBOL=X CONDITIONS=(XPLTRES.EQ.1,SAW.EQ.3)
   688 SYMBOL 'X' POINTS AVAIL AVERAGE DNDNOC=      2.34 AVERAGE ACTCOC=    88.38
JOB NAME=POONDOBB,   PLOT TAPE VOL. SER.=TD8740
```



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  ESSO                         POONBOON 1                        Z11120
DENSITY VS SONIC LOG - NON-RESERVOIR ROCKS ONLY
XYTOP= 6102.00 XYBOT=10698.00 HOLGATE=NO   DATE=09/03/87
SYMBOL=X CONDITIONS=(XPLTRES.NE.1,SAW.EQ.3)
   790 SYMBOL 'X' POINTS AVAIL AVERAGE DNDNOC=     2.44 AVERAGE ACTCOC=    87.62
SYMBOL=_ CONDITIONS=(XPLTRES.NE.1,COALFLAG.EQ.1,SAW.EQ.3)
    50 SYMBOL '_' POINTS AVAIL AVERAGE DNDNOC=     2.09 AVERAGE ACTCOC=   105.73
JOB NAME=POONOOBB,  PLOT TAPE VOL. SER.=TD8740
```

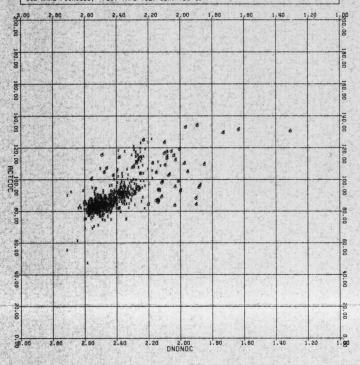

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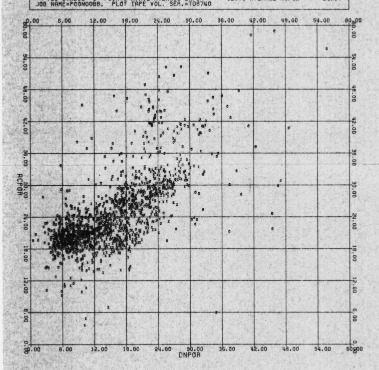
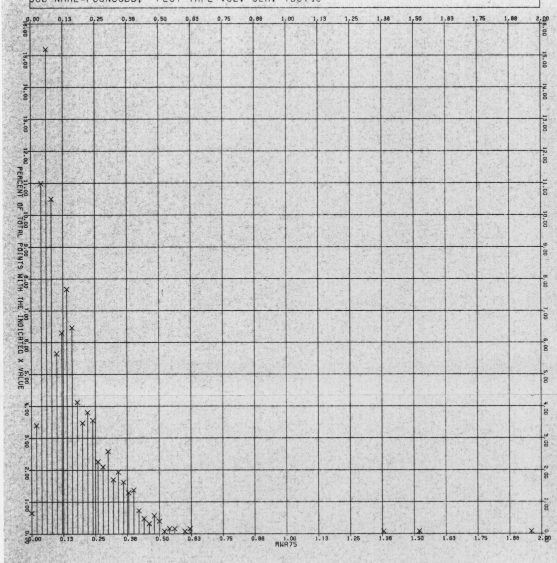
  ESSO                         POONBOON 1                        Z11120
XYTOP= 6102.00 XYBOT=10698.00 HOLGATE=NO   DATE=09/03/87
SYMBOL=X CONDITIONS=(XPLTRES.EQ.1,SAW.EQ.3)
   684 SYMBOL 'X' POINTS AVAIL AVERAGE DNPOR =    18.73 AVERAGE ACPOR =    24.69
SYMBOL=0 CONDITIONS=(XPLTRES.NE.1,SAW.EQ.3)
   783 SYMBOL '0' POINTS AVAIL AVERAGE DNPOR =    12.71 AVERAGE ACPOR =    24.07
JOB NAME=POONOOBB,  PLOT TAPE VOL. SER.=TD8740
```

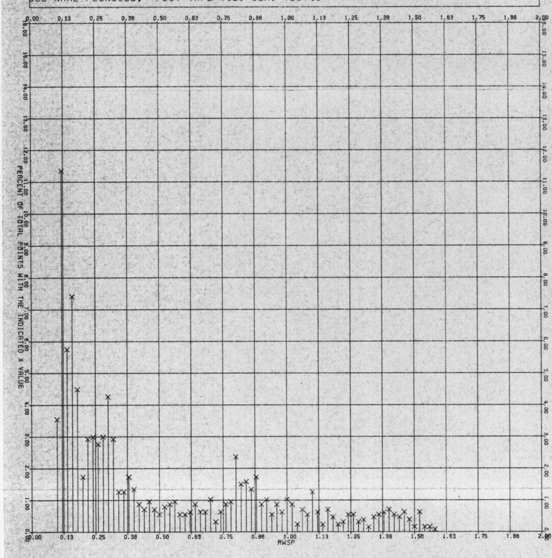


```
  ESSO                         POONBOON 1                        Z11120
XYTOP= 6211.00 XYBOT=10689.00 HOLGATE=NO   DATE=09/03/87
SYMBOL=X CONDITIONS=(XPLTRES.EQ.1,VSH.LE.0.25)
  1238 SYMBOL 'X' POINTS AVAILABLE.
AVERAGE RWA75 =      0.1648  XMODE=      0.0697  YMODE=      15.1858
JOB NAME=POONOOBB,  PLOT TAPE VOL. SER.=TD8740
```



5 cm

```
  ESSO                         POONBOON 1                        Z11120
XYTOP= 6211.00 XYBOT=10689.00 HOLGATE=NO   DATE=09/03/87
SYMBOL=X CONDITIONS=(XPLTRES.EQ.1,VSH.LE.0.25)
  1269 SYMBOL 'X' POINTS AVAILABLE.
AVERAGE RWSP  =      0.5067  XMODE=      0.1268  YMODE=      11.3475
JOB NAME=POONOOBB,  PLOT TAPE VOL. SER.=TD8740
```



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  ESSO                         POONBOON 1                        Z11120
XYTOP= 6211.00 XYBOT=10689.00 HOLGATE=NO   DATE=09/03/87
SYMBOL=X CONDITIONS=(XPLTRES.EQ.1,VSH.LE.0.25)
  1269 SYMBOL 'X' POINTS AVAILABLE.
AVERAGE RWRAT7=      0.1858  XMODE=      0.1091  YMODE=      10.3231
JOB NAME=POONOOBB,  PLOT TAPE VOL. SER.=TD8740
```

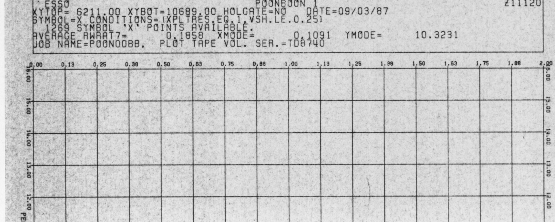

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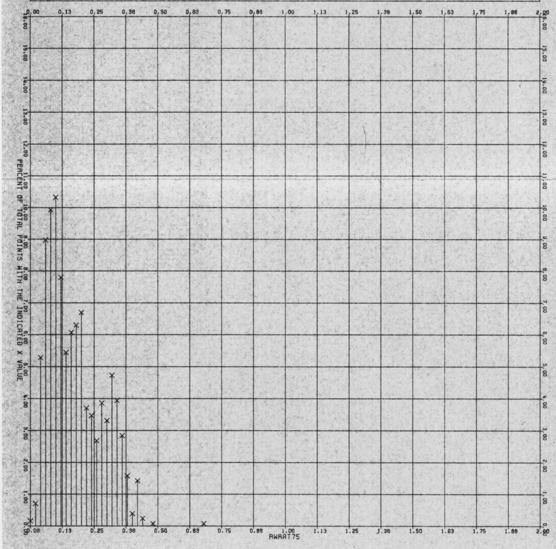
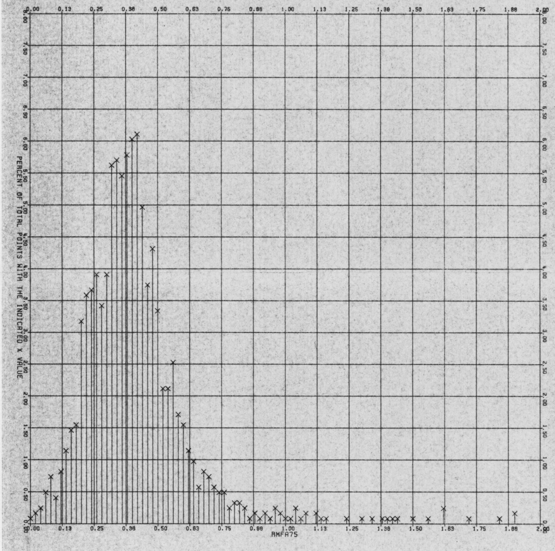
 ESSO                                POONBOON 1                              Z11120
XYTOP= 6211.00 XYBOT=10689.00 HOLGATE=NO   DATE=09/03/87
SYMBOL=X CONDITIONS=(XPLTRES.EQ.1,VSH.LE.0.25)
  1269 SYMBOL 'X' POINTS AVAILABLE.
AVERAGE RWRAT7=      0.1858  XMODE=       0.1091  YMODE=      10.3231
JOB NAME=POONOOBB,  PLOT TAPE VOL. SER.=TD8740
```



```
 ESSO                                POONBOON 1                              Z11120
XYTOP= 6211.00 XYBOT=10689.00 HOLGATE=NO   DATE=09/03/87
SYMBOL=X CONDITIONS=(XPLTRES.EQ.1,VSH.LE.0.25)
  1228 SYMBOL 'X' POINTS AVAILABLE.
AVERAGE RMFA75=      0.4227  XMODE=       0.4295  YMODE=       6.1074
JOB NAME=POONOOBB,  PLOT TAPE VOL. SER.=TD8740
```

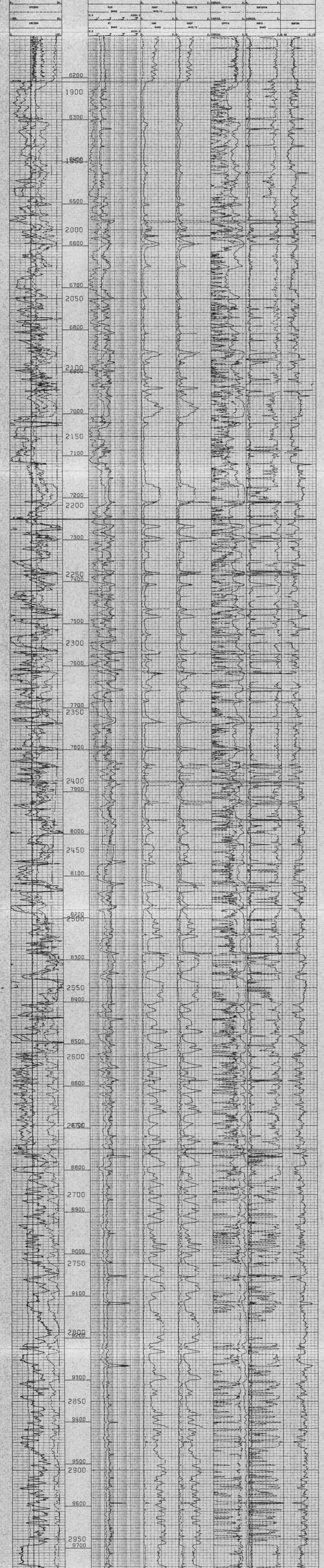


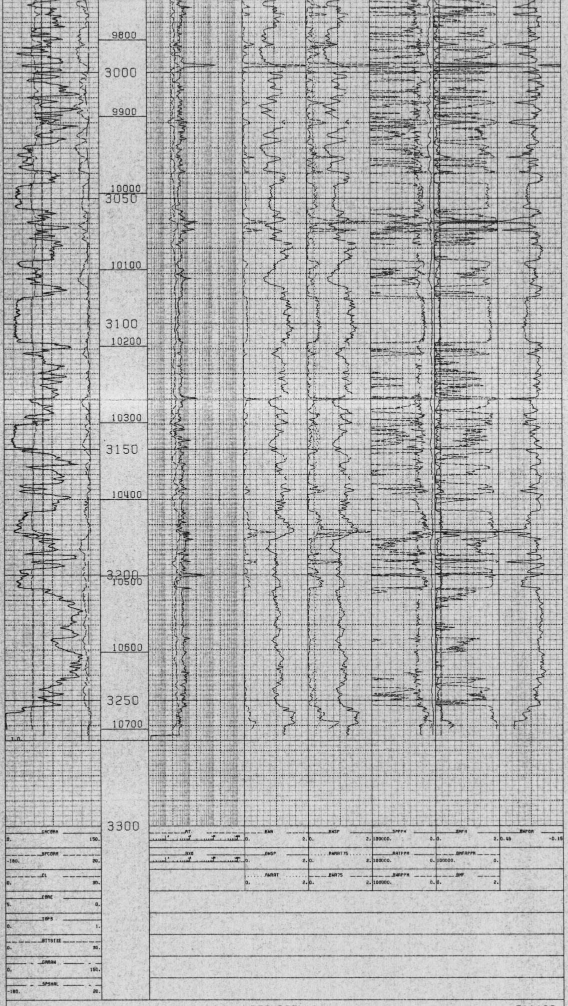
AMOCO PRODUCTION COMPANY

ESSO POONBOON 1 Z11120
RW COMPUTATION FROM SP, RWA, RW RATIO METHODS
DATE=09/03/87

SPSHAL	
-180.	20.
GRRAW	
0.	150.
BITSIZE	
0.	30.
TOPS	
0.	1.
CORE	
5.	0.
CL SC. INCHES	

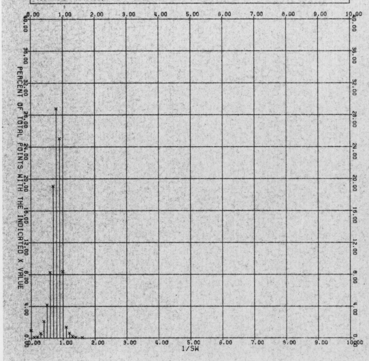
RWRAT	RWA75	RWAPPM	RMF





ESSO POONBOON 1 Z11120

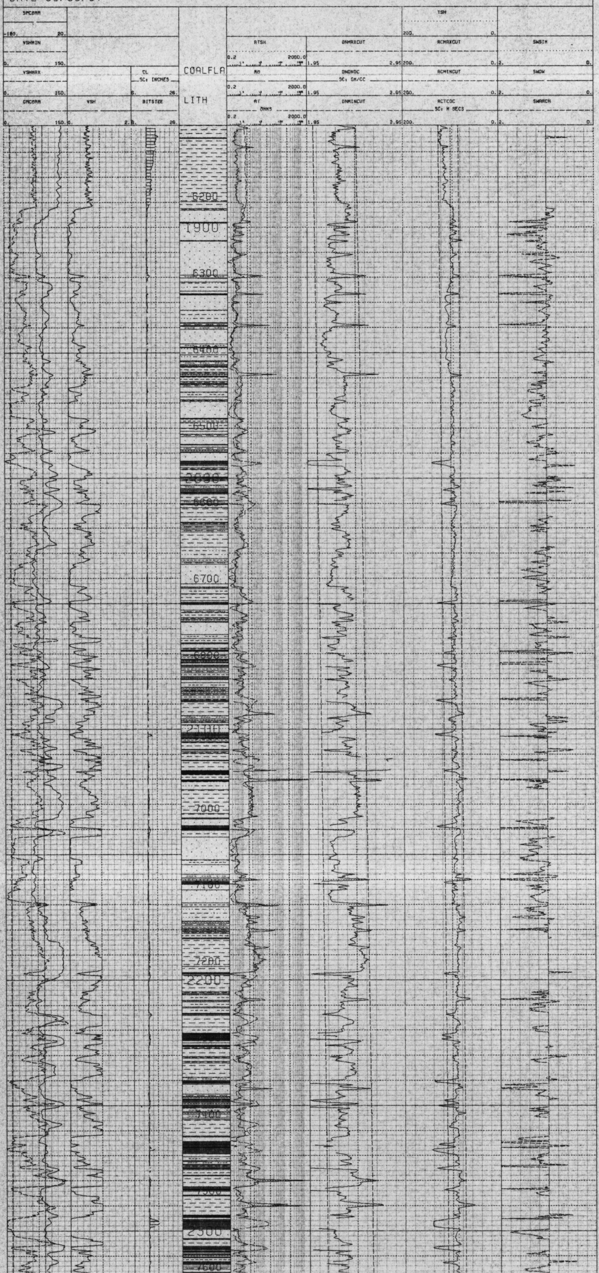
```
ESSO                     POONBOON 1                    Z11120
SW HISTOGRAM
XYTOP= 6116.00 XYBOT=10715.00 HOLGATE=NO   DATE=09/03/87
SYMBOL=X CONDITIONS=XPLTRES.EQ.1
  2106 SYMBOL 'X' POINTS AVAILABLE.
AVERAGE SWA    =      0.8315  XMODE=      0.8514  YMODE=     28.7711
JOB NAME=POONDOBB,  PLOT TAPE VOL. SER.=TD8740
```

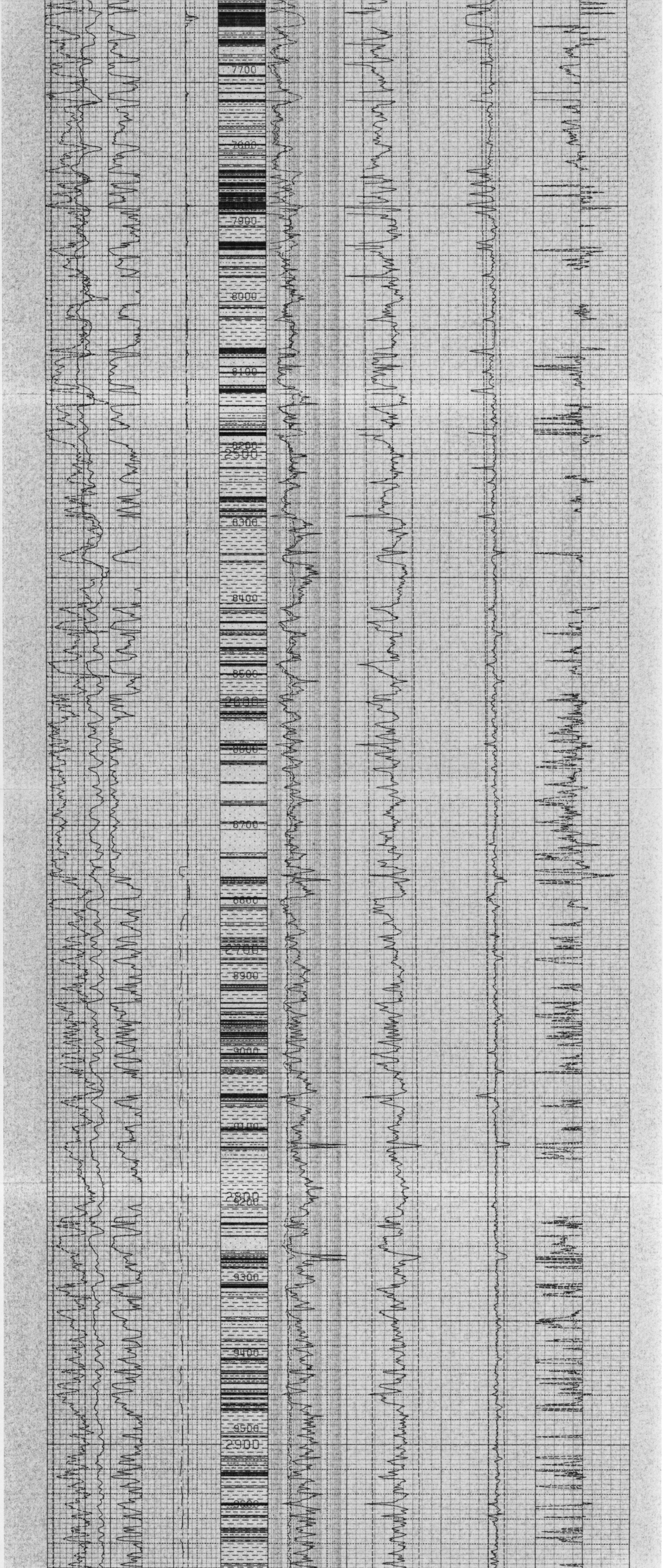


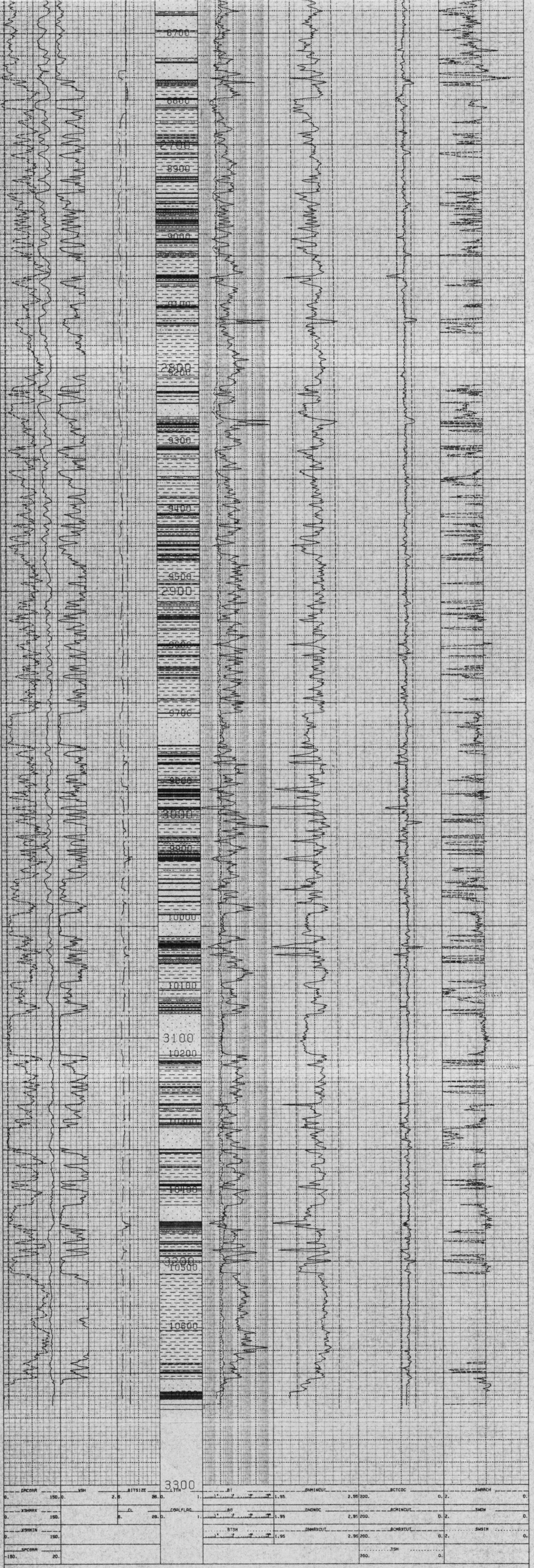
5 cm

AMOCO PRODUCTION COMPANY

ESSO POONBOON 1 Z11120
DATE=09/03/87

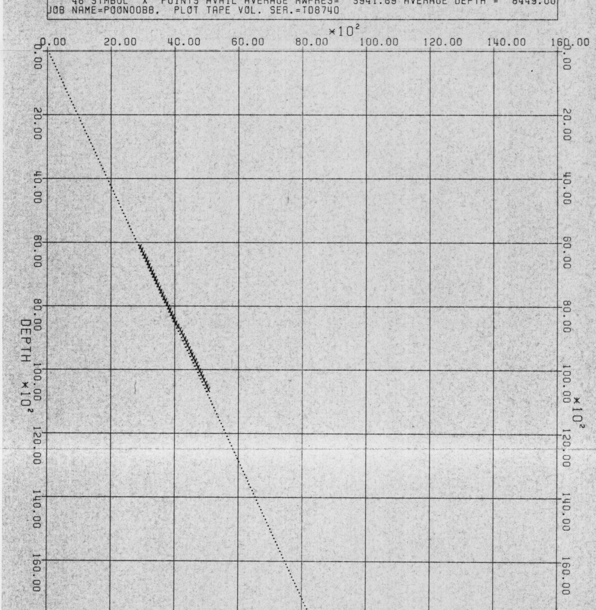




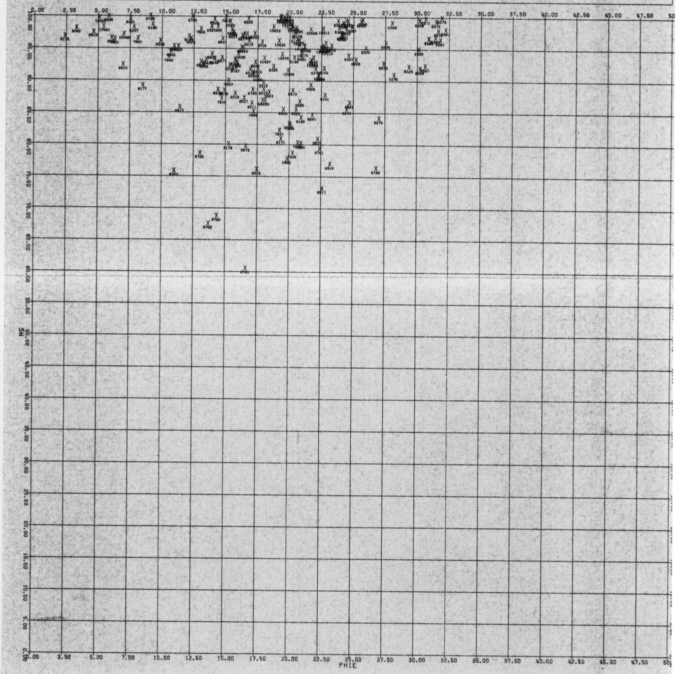


ESSO POONBOON 1 Z11120

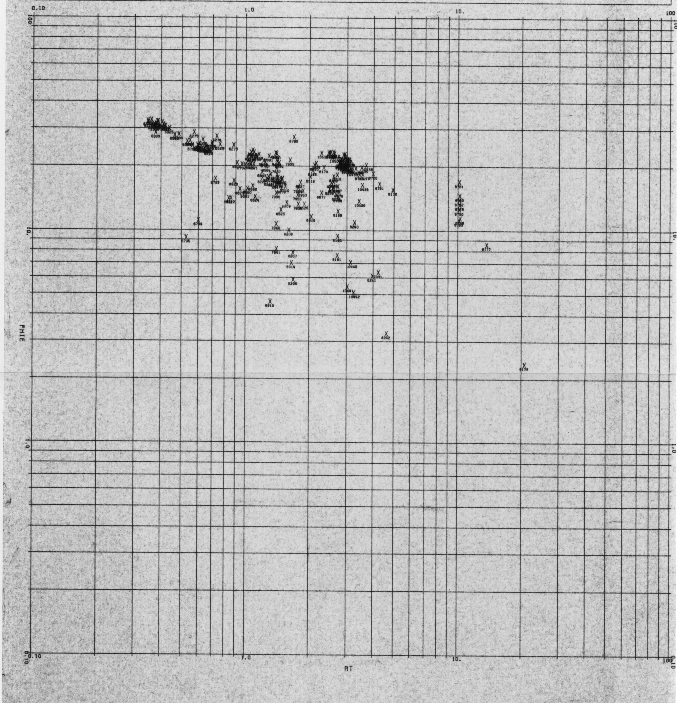
```
 ESSO                                POONBOON 1                                  Z11120
PRESSURE VS DEPTH PLOTS
MUD WEIGHT , RFT AND DRILL STEM TEST PRESSURES
WILL BE PLOTTED IF AVAILABLE
SYMBOL X = INDICATED MUD WEIGHT PRESSURE
SYMBOL # = INDICATED RFT PRESSURE
SYMBOL 0 = INDICATED DST PRESSURE
XYTOP= 6199.00 XYBOT=10699.00 HOLGATE=NO   DATE=09/03/87
SYMBOL=X CONDITIONS=SAW2.EQ.100
    46 SYMBOL 'X' POINTS AVAIL AVERAGE MWPRES=  3941.69 AVERAGE DEPTH =  8449.00
JOB NAME=POONOOBB,  PLOT TAPE VOL. SER.=TD8740
```



ESSO
POONBOON 1
Z11120
BUCKLES PLOT - ZONE ALL
XYTOP= 6206.00 XYBOT=10685.00 HOLGATE=NO DATE=09/03/87
SYMBOL=X CONDITIONS=(SW.LT.100)
181 SYMBOL 'X' POINTS AVAIL AVERAGE PHIE = 18.75 AVERAGE SW = 92.40
JOB NAME=POONOOBB, PLOT TAPE VOL. SER.=TD8740



ESSO
POONBOON 1
Z11120
PICKETT PLOT - ZONE ALL
XYTOP= 6206.00 XYBOT=10685.00 HOLGATE=NO DATE=09/03/87
SYMBOL=X CONDITIONS=(SW.LT.100)
181 SYMBOL 'X' POINTS AVAIL AVERAGE RT = 2.25 AVERAGE PHIE = 18.75
JOB NAME=POONOOBB, PLOT TAPE VOL. SER.=TD8740



Amoco Aust. [illegible]

BASS BASIN

COMPUTER LOG ANALYSIS DISPLAYS
POONBOON-1
PART-6

Aug. 1987	R-87-051, [illegible]
P. Stokes	Enclosure: 16

OR-277

313767

5 cm

AMOCO PRODUCTION COMPANY

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 ESSO                               POONBOON 1                             Z11120
*************************************************************************************
PLOT SCALE       = 1:      500.0000
DEPTH REFERENCE = MDEP
UNITS            = MTRS
*************** PROBABLE PAY ******************************************************
   ZONE          ZONE TOP         ZONE BOT           NET           AVE.        AVE.
                                                 PROBABLE PAY   POROSITY        SW
1  ALL         1892.8311        3265.9717
2
3
4
5
6
7
8
9
10
TOTAL PROBABLE PAY IN ACTIVE INTERVAL
      1859.3025       3265.9717
*************** POSSIBLE PAY ******************************************************
   ZONE           ZONE TOP        ZONE BOT           NET           AVE.          AVE.
                                                POSSIBLE PAY.   POROSITY        SW
1  ALL         1892.8311        3265.9717       1.5240         13.6411         69.9419
2
3
4
5
6
7
8
9
10
TOTAL POSSIBLE PAY IN ACTIVE INTERVAL
      1859.3025       3265.9717         1.5240        13.6411         69.9419
*********** NET LITHOLOGY THICKNESS  ***************************************
*************** BY DEFINED ZONES     ***************************************
        NET SAND       NET SHSD        NET SHALE     NET COAL    NET CARBONATE
1      385.8813       252.9871        685.1987       77.7249      3.0480
2
3
4
5
6
7
8
9
10
TOTAL NET LITHOLOGY IN ACTIVE INTERVAL
ACTIVE TOP=    1859.3025,  ACTIVE BOT =    3265.9717
      385.8813       252.9871        685.1987        77.7249          3.0480
**************************************************************************************
*      SUMMARY OF IMPORTANT CONSTANTS USED AND/OR COMPUTED IN THIS ANALYSIS        *
* ---------------------------------------------------------------                  *
* -----------------PAY CUTOFFS-----------------------------                        *
* THICKNESS GREATER THAN 3 FEET (1 METER)                                          *
* PROBABLE PAY: SW LESS THAN 50%                                                   *
* POSSIBLE PAY: SW GREATER THAN 50% BUT LESS THAN 80%                              *
* ------------CONSTANTS USED FOR SW CALCULATION------------                        *
*     A=       0.8100                                                              *
*     M=            2                                                              *
*     N=            2                                                              *
*  METHOD USED TO COMPUTE VSH                                                      *
*   1. GAMMA RAY          =YES                                                     *
*   2. SP                 =NO                                                      *
*   3. RHOMAA             =NO                                                      *
*   4. TMAA               =NO                                                      *
*  METHOD USED TO COMPUTE SW                                                       *
*   1. ARCHIE=            =NO                                                      *
*   2. DUAL WATER         =NO                                                      *
*   3. MODIFIED SIMANDOUX=NO                                                       *
* ----------------- CURVE DEFINITIONS -------------------                          *
* GRCORR : GR CORRECTED FOR HOLE SIZE AND MUDWEIGHT                                *
* SPCORR : SP CORRECTED FOR DRIFT                                                  *
* CL     : CALIPER FROM RESISTIVITY TOOL                                           *
* VSH    : VOLUME OF SHALE                                                         *
* RT     : DEEP RESISTIVITY - CORRECTED FOR BOREHOLE ENVIRONMENT                   *
* RXO    : SHALLOW RESISTIVITY - CORRECTED FOR BOREHOLE ENVIRONMENT                *
* PHIE   : PHIE - PHIND X (1-VSH)                                                  *
* BVW    : PHIE X SW                                                               *
* BVWXO  : PHIE X SXO                                                              *
**************************************************************************************
DATE=09/03/87
```

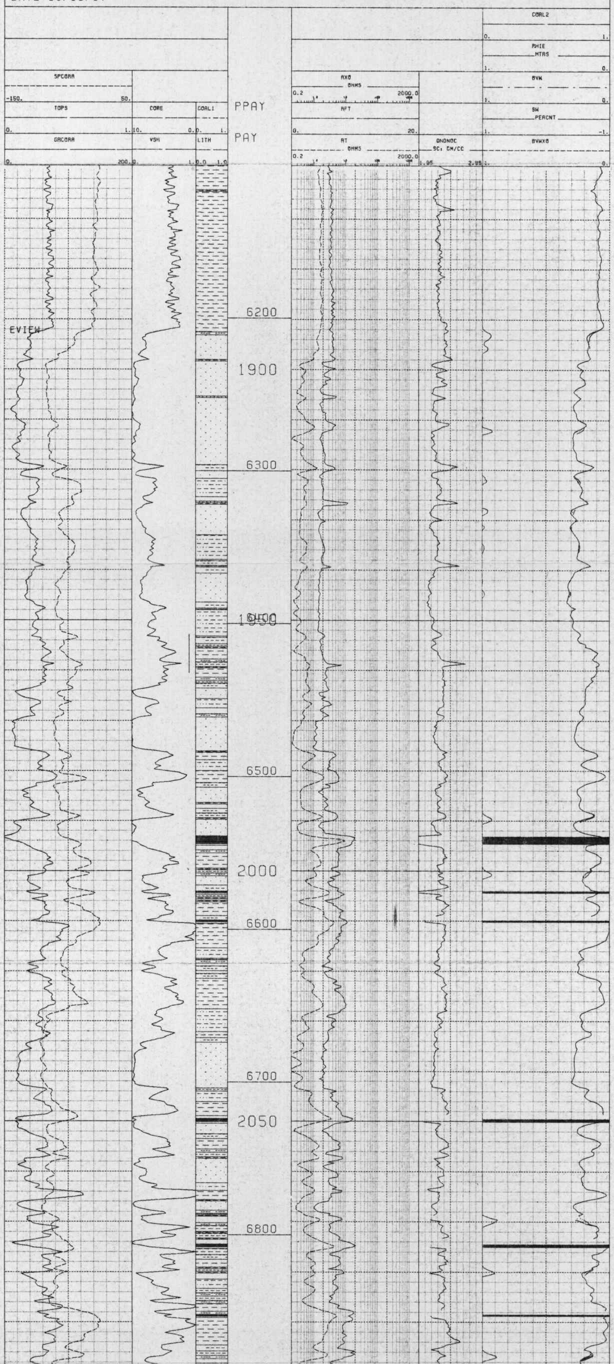

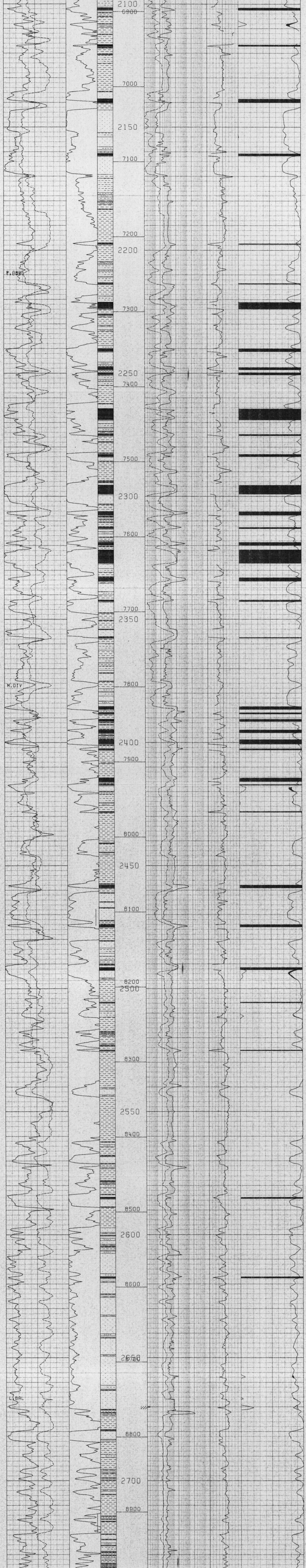

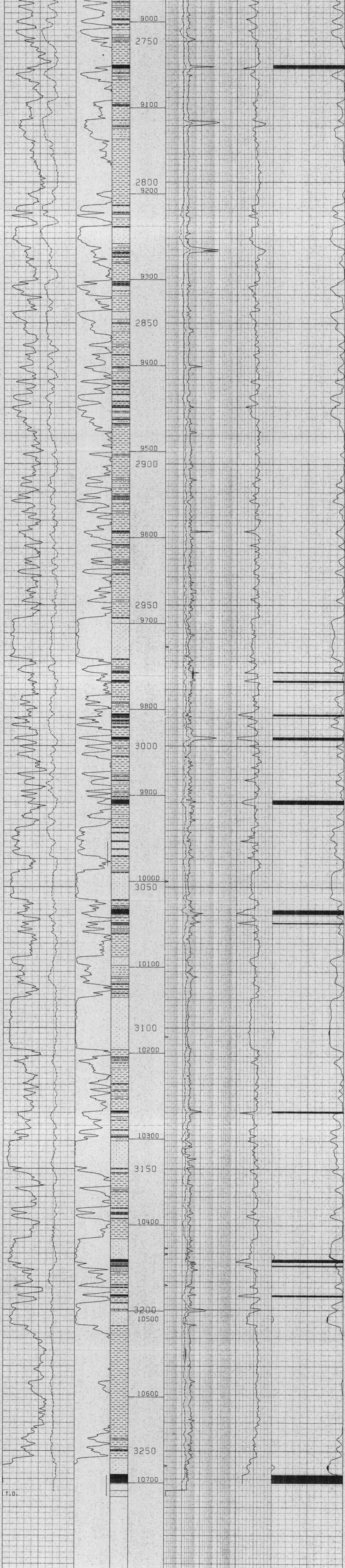

ESSO POONBOON 1 Z11120

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                            AMOCO PRODUCTION COMPANY

  ESSO                             POONBOON 1                             Z11120
*******************************************************************************
PLOT SCALE      = 1:     500.0000
DEPTH REFERENCE = MDEP
UNITS           = MTRS
**************** PROBABLE PAY *************************************************
   ZONE        ZONE TOP       ZONE BOT        NET           AVE.      AVE.
                                          PROBABLE PAY  POROSITY       SW
1  ALL        1892.8311       3265.9717
2
3
4
5
6
7
8
9
10
TOTAL PROBABLE PAY IN ACTIVE INTERVAL
      1859.3025      3265.9717
*************** POSSIBLE PAY **************************************************
   ZONE         ZONE TOP      ZONE BOT         NET          AVE.         AVE.
                                           POSSIBLE PAY,  POROSITY       SW
1  ALL        1892.8311       3265.9717      1.5240       13.6411        69.9419
2
3
4
5
6
7
8
9
10
TOTAL POSSIBLE PAY IN ACTIVE INTERVAL
      1859.3025      3265.9717        1.5240       13.6411        69.9419
************ NET LITHOLOGY THICKNESS  *****************************************
**************** BY DEFINED ZONES     *****************************************
        NET SAND      NET SHSD       NET SHALE    NET COAL   NET CARBONATE
1      385.8813       252.9871       685.1987       77.7249      3.0480
2
3
4
5
6
7
8
9
10
TOTAL NET LITHOLOGY IN ACTIVE INTERVAL
ACTIVE TOP=   1859.3025,  ACTIVE BOT =   3265.9717
       385.8813       252.9871       685.1987       77.7249        3.0480
********************************************************************************
*     SUMMARY OF IMPORTANT CONSTANTS USED AND/OR COMPUTED IN THIS ANALYSIS     *
```

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                         AMOCO PRODUCTION COMPANY

 ESSO                                POONBOON 1                             Z11120
**************************************************************************************
PLOT SCALE      = 1:     500.0000
DEPTH REFERENCE = MDEP
UNITS           = MTRS
*************** PROBABLE PAY *********************************************************
   ZONE         ZONE TOP       ZONE BOT        NET            AVE.        AVE.
                                          PROBABLE PAY  POROSITY        SW
1  ALL       1892.8311      3265.9717
2
3
4
5
6
7
8
9
10
TOTAL PROBABLE PAY IN ACTIVE INTERVAL
      1859.3025      3265.9717
************** POSSIBLE PAY **********************************************************
   ZONE          ZONE TOP      ZONE BOT         NET            AVE.         AVE.
                                           POSSIBLE PAY,  POROSITY       SW
1  ALL       1892.8311      3265.9717      1.5240       13.6411        69.9419
2
3
4
5
6
7
8
9
10
TOTAL POSSIBLE PAY IN ACTIVE INTERVAL
      1859.3025      3265.9717          1.5240        13.6411         69.9419
*********** NET LITHOLOGY THICKNESS  *************************************
*************** BY DEFINED ZONES     *************************************
        NET SAND      NET SHSD       NET SHALE    NET COAL   NET CARBONATE
1     385.8813       252.9871       685.1987       77.7249       3.0480
2
3
4
5
6
7
8
9
10
TOTAL NET LITHOLOGY IN ACTIVE INTERVAL
ACTIVE TOP=   1859.3025,  ACTIVE BOT =   3265.9717
      385.8813       252.9871       685.1987       77.7249         3.0480
**************************************************************************************
*     SUMMARY OF IMPORTANT CONSTANTS USED AND/OR COMPUTED IN THIS ANALYSIS          *
* -----------------------------------------------------------------                  *
* -----------------PAY CUTOFFS-------------------------------                        *
* THICKNESS GREATER THAN 3 FEET (1 METER)                                            *
* PROBABLE PAY: SW LESS THAN 50%                                                     *
* POSSIBLE PAY: SW GREATER THAN 50% BUT LESS THAN 80%                                *
* ------------CONSTANTS USED FOR SW CALCULATION------------                          *
*     A=      0.8100                                                                 *
*     M=           2                                                                 *
*     N=           2                                                                 *
*  METHOD USED TO COMPUTE VSH                                                        *
*   1. GAMMA RAY          =YES                                                       *
*   2. SP                 =NO                                                        *
*   3. RHOMAA             =NO                                                        *
*   4. TMAA               =NO                                                        *
*  METHOD USED TO COMPUTE SW                                                         *
*   1. ARCHIE=            =NO                                                        *
*   2. DUAL WATER         =NO                                                        *
*   3. MODIFIED SIMANDOUX=NO                                                         *
* ---------------- CURVE DEFINITIONS -------------------                             *
* GRCORR : GR CORRECTED FOR HOLE SIZE AND MUDWEIGHT                                  *
* SPCORR : SP CORRECTED FOR DRIFT                                                    *
* CL     : CALIPER FROM RESISTIVITY TOOL                                             *
* VSH    : VOLUME OF SHALE                                                           *
* RT     : DEEP RESISTIVITY - CORRECTED FOR BOREHOLE ENVIRONMENT                     *
* RXO    : SHALLOW RESISTIVITY - CORRECTED FOR BOREHOLE ENVIRONMENT                  *
* PHIE   : PHIE - PHIND X (1-VSH)                                                    *
* BVW    : PHIE X SW                                                                 *
* BVWXO  : PHIE X SXO                                                                *
**************************************************************************************
DATE=09/03/87
```
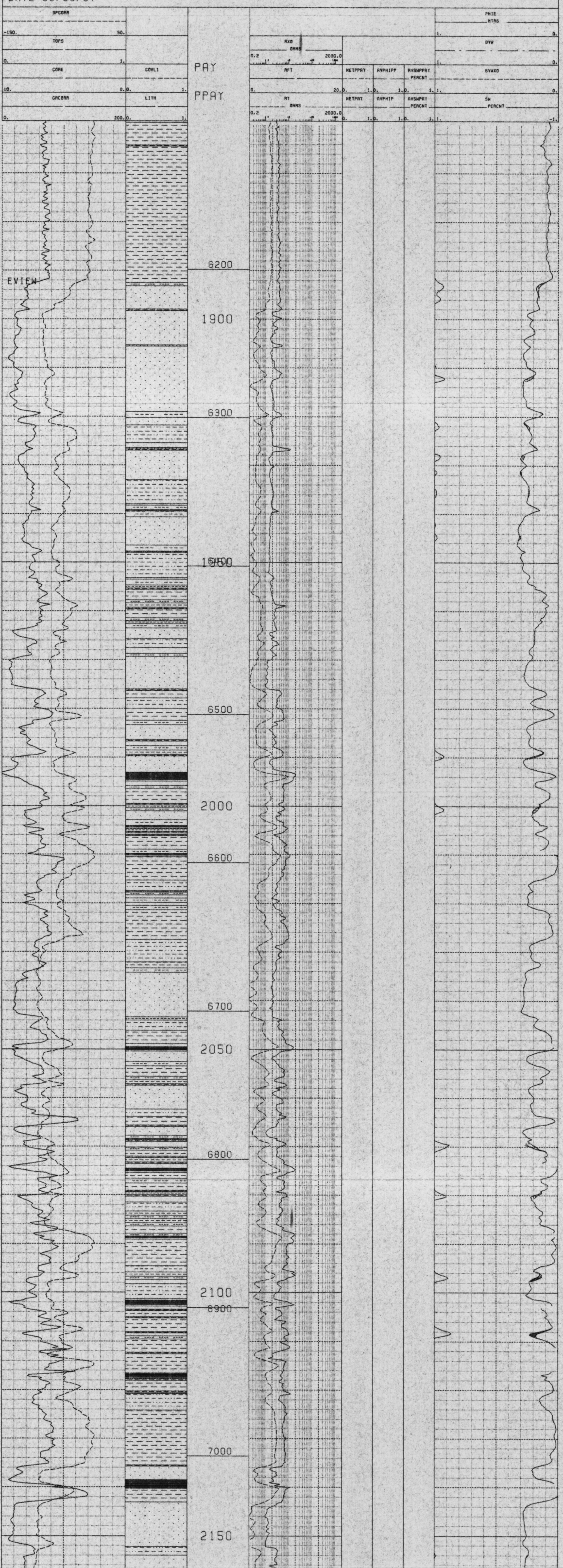
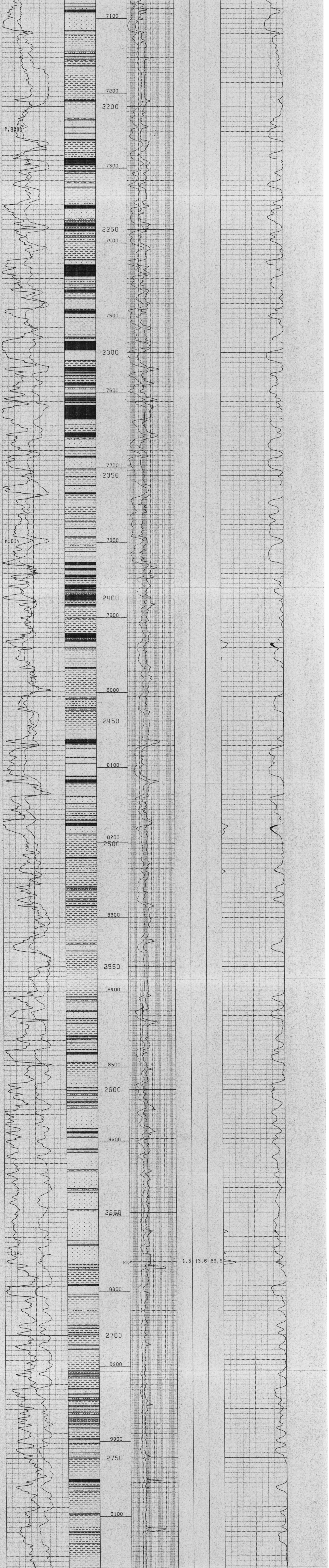
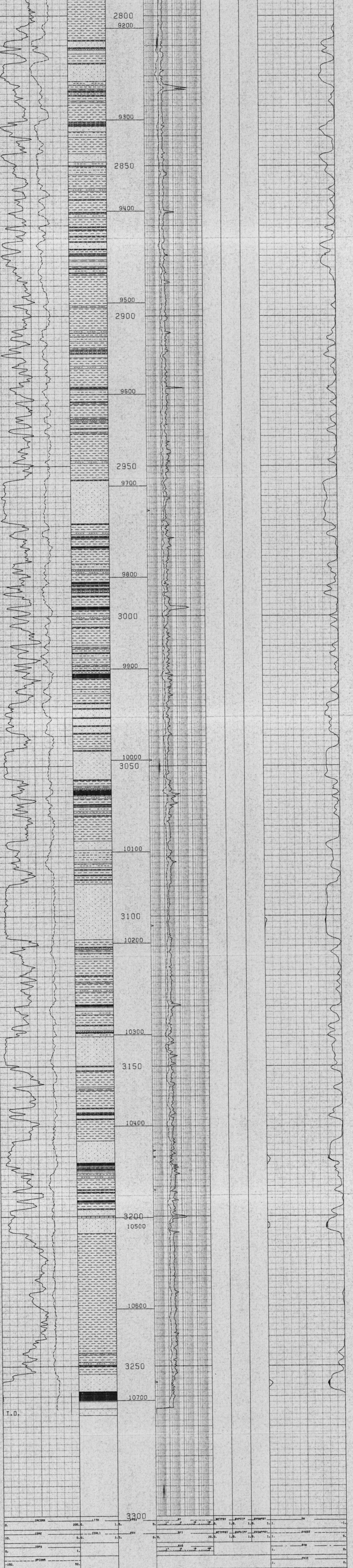





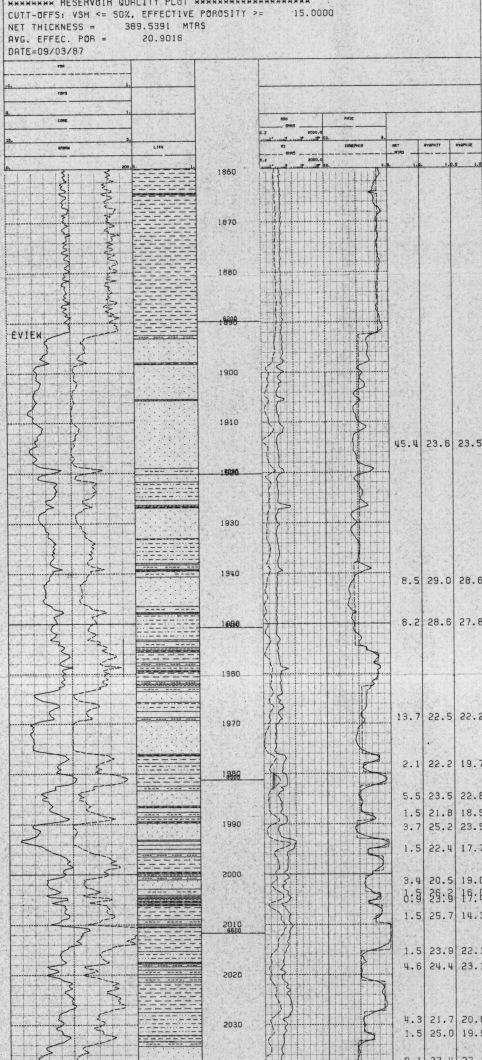


ESSO POONBOON 1 Z11120

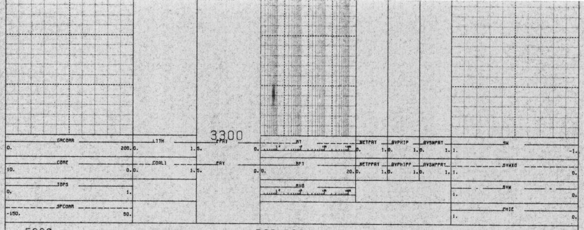
AMOCO PRODUCTION COMPANY

ESSO POONBOON 1 Z11120

******** RESERVOIR QUALITY PLOT *******************
CUTT-OFFS: VSH <= 50%, EFFECTIVE POROSITY >= 15.0000
NET THICKNESS = 389.5391 MTRS
AVG. EFFEC. POR = 20.9016
DATE=09/03/87



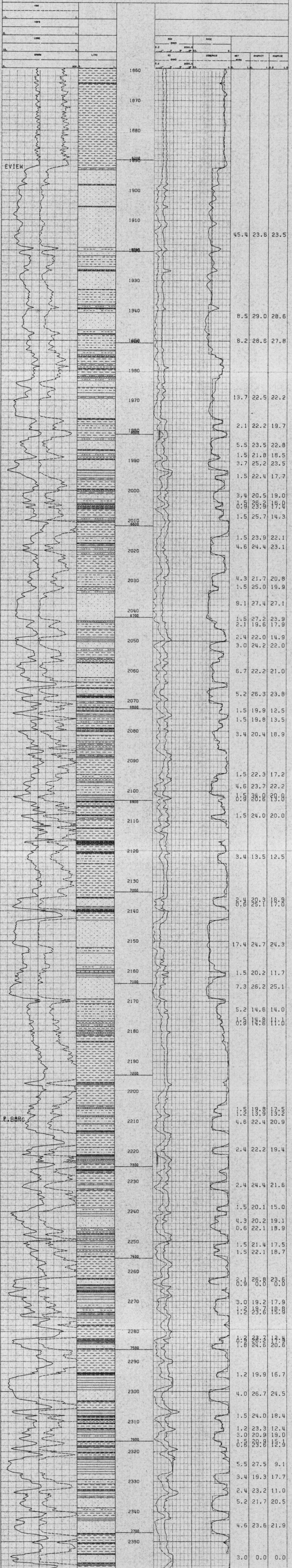
NET MTRS	AVGPHIT	AVGPHIE
45.4	23.6	23.5
8.5	29.0	28.6
8.2	28.6	27.8
13.7	22.5	22.2
2.1	22.2	19.7
5.5	23.5	22.8
1.5	21.8	18.5
3.7	25.2	23.5
1.5	22.4	17.7
3.4	20.5	19.0
1.5	26.2	16.0
0.9	23.9	17.4
1.5	25.7	14.3
1.5	23.9	22.1
4.6	24.4	23.1
4.3	21.7	20.8
1.5	25.0	19.9



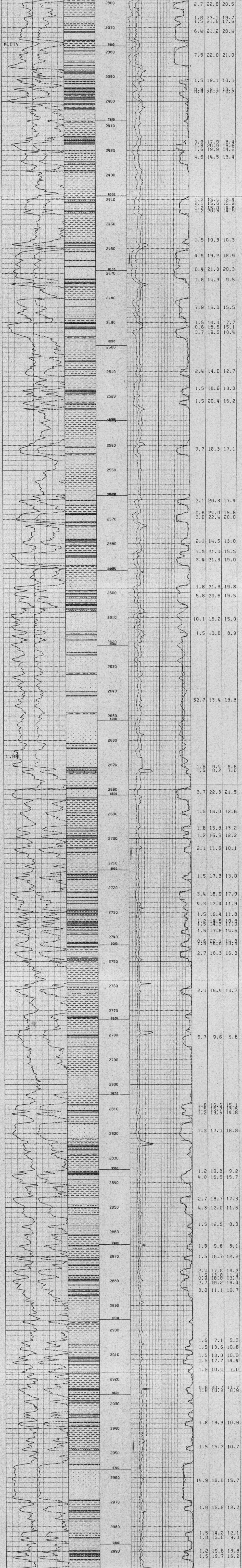
ESSO POONBOON 1 Z11120

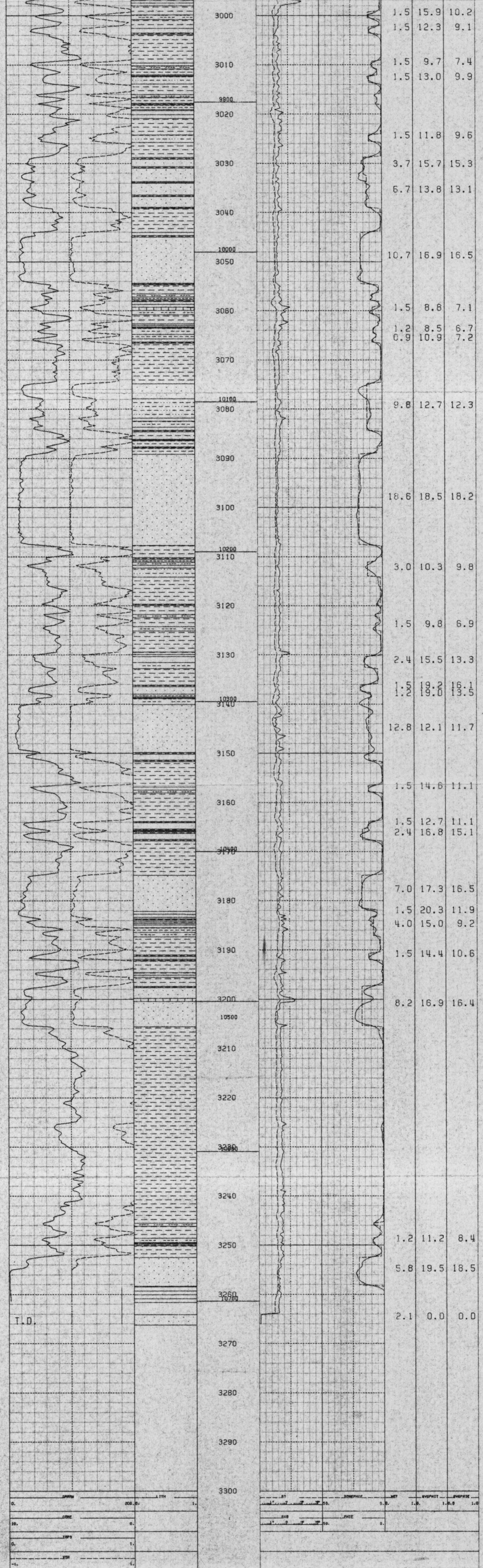
AMOCO PRODUCTION COMPANY

ESSO POONBOON 1 Z11120
******** RESERVOIR QUALITY PLOT ********************
CUTT-OFFS: VSH <= 50%, EFFECTIVE POROSITY >= 15.0000
NET THICKNESS = 389.5391 MTRS
AVG. EFFEC. POR = 20.9016
DATE=09/03/87



NET MTRS	AVGPHIT	AVGPHIE
45.4	23.6	23.5
8.5	29.0	28.6
8.2	28.6	27.8
13.7	22.5	22.2
2.1	22.2	19.7
5.5	23.5	22.8
1.5	21.8	18.5
3.7	25.2	23.5
1.5	22.4	17.7
3.4	20.5	19.0
1.5	26.2	16.0
0.9	23.9	17.4
1.5	25.7	14.3
1.5	23.9	22.1
4.6	24.4	23.1
4.3	21.7	20.8
1.5	25.0	19.9
9.1	27.4	27.1
1.5	27.2	23.9
2.1	19.6	17.9
2.4	22.0	14.9
3.0	24.2	22.0
6.7	22.2	21.0
5.2	26.3	23.8
1.5	19.9	12.5
1.5	19.8	13.5
3.4	20.4	18.9
1.5	22.3	17.2
4.6	23.7	22.2
1.5	34.0	20.0
0.9	20.6	13.0
1.5	24.0	20.0
3.4	13.5	12.5
2.4	20.3	18.9
0.6	25.1	17.0
17.4	24.7	24.3
1.5	20.2	11.7
7.3	26.2	25.1
5.2	14.6	14.0
1.5	14.8	11.1
0.9	14.6	11.0
1.5	19.8	17.5
1.2	13.9	13.2
4.6	22.4	20.9
2.4	22.2	19.4
2.4	24.4	21.6
1.5	20.1	15.0
4.3	20.2	19.1
0.6	22.1	18.9
1.5	21.4	17.5
1.5	22.1	18.7
2.1	26.8	23.6
0.9	0.0	0.0
3.0	19.2	17.9
1.2	19.7	18.8
1.2	23.6	15.9
1.2	23.7	12.4
0.9	26.2	17.9
1.8	24.6	20.6
1.2	19.9	16.7
4.0	26.7	24.5
1.5	24.0	18.4
1.2	23.3	12.4
3.0	20.9	19.0
1.5	20.9	15.1
0.6	23.6	12.9
5.5	27.5	9.1
3.4	19.3	17.7
2.4	23.2	11.0
5.2	21.7	20.5
4.6	23.6	21.9
3.0	0.0	0.0





ESSO POONBOON 1 Z11120

Amoco Australia Petroleum Company

BASS BASIN

COMPUTER LOG ANALYSIS DISPLAYS

TAROOK-1

PART-1

Aug. 1987	R-87-051, Appendix F
P. Stokes	Enclosure: 17

OR-277

313768

5 cm

```
  ESSO                         TAROOK 1                              Z11520
NEUTRON POROSITY VS DENSITY POROSITY - SANDSTONE MATRIX
XYTOP= 6126.00 XYBOT= 9084.00 HOLGATE=NO   DATE=08/29/87
SYMBOL=X CONDITIONS=(XPLTRES.EQ.1,SAW.EQ.3)
   434 SYMBOL 'X' POINTS AVAIL AVERAGE NCNPSC=    32.44 AVERAGE DNPOR =    20.04
JOB NAME=TAROOKBB.  PLOT TAPE VOL. SER.=TD8713
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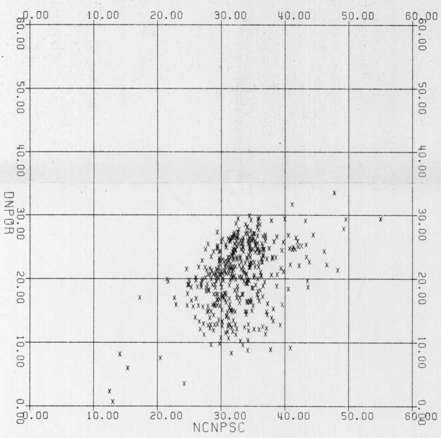
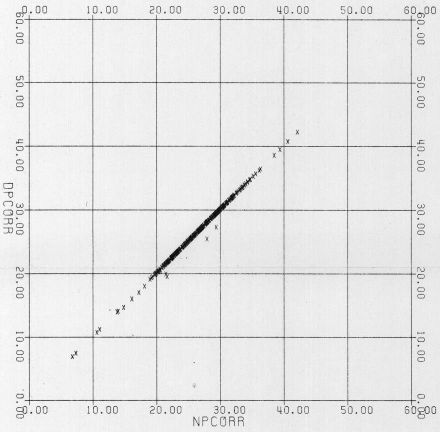


```
  ESSO                         TAROOK 1                              Z11520
NEUTRON POROSITY VS DENSITY POROSITY - SANDSTONE MATRIX
XYTOP= 6126.00 XYBOT= 9090.00 HOLGATE=NO   DATE=08/29/87
SYMBOL=X CONDITIONS=(XPLTRES.EQ.1,SAW.EQ.3)
   438 SYMBOL 'X' POINTS AVAIL AVERAGE NPCORR=    26.17 AVERAGE DPCORR=    26.15
JOB NAME=TAROOKBB.  PLOT TAPE VOL. SER.=TD8713
```



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  ESSO                         TAROOK 1                              Z11520
 SW HISTOGRAM
XYTOP= 6126.00 XYBOT= 9090.00 HOLGATE=NO   DATE=08/29/87
SYMBOL=X CONDITIONS=XPLTRES.EQ.1
  1301 SYMBOL 'X' POINTS AVAILABLE.
AVERAGE SWA   =      0.9582  XMODE=      0.9526  YMODE=      24.6726
JOB NAME=TAROOKBB,  PLOT TAPE VOL. SER.=TD8713
```
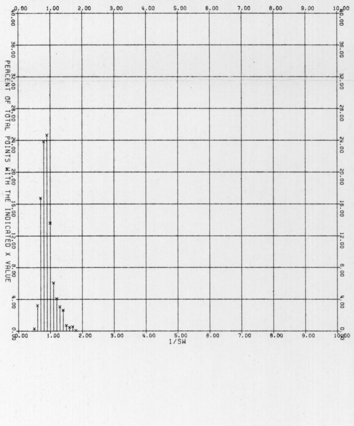
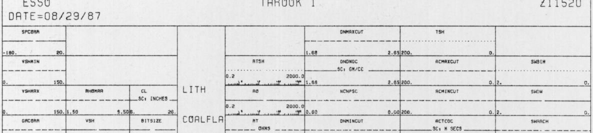
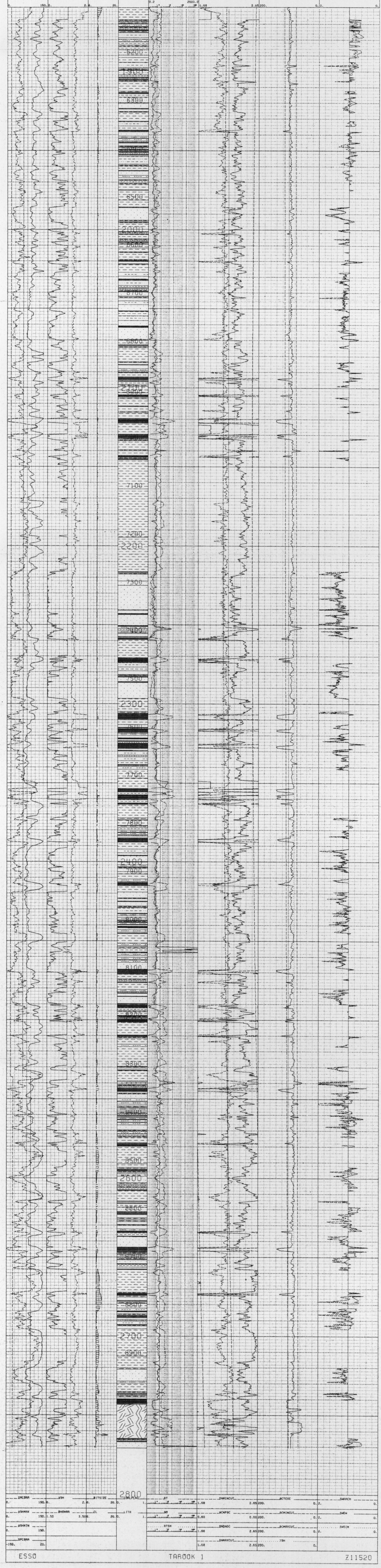



AMOCO PRODUCTION COMPANY

ESSO TAROOK 1 Z11520

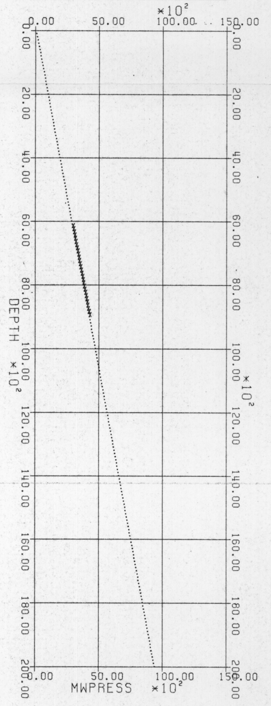
DATE=08/29/87



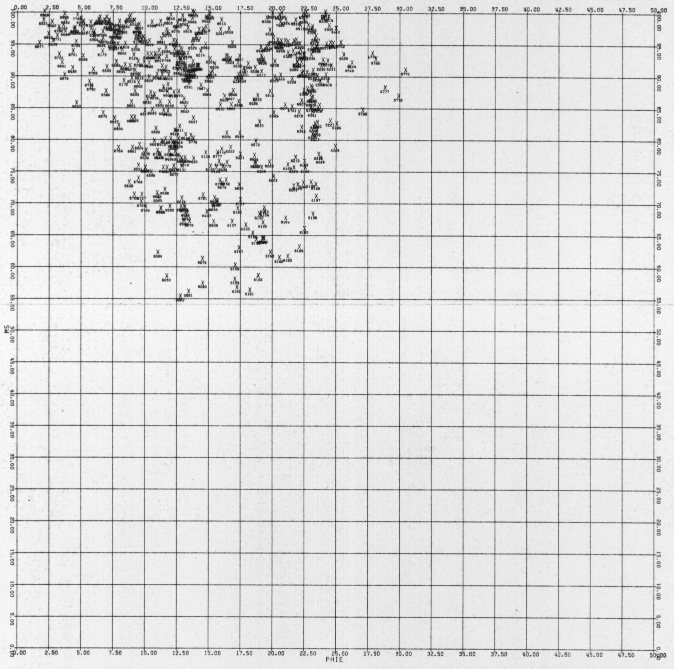


ESSO TAROOK 1 Z11520

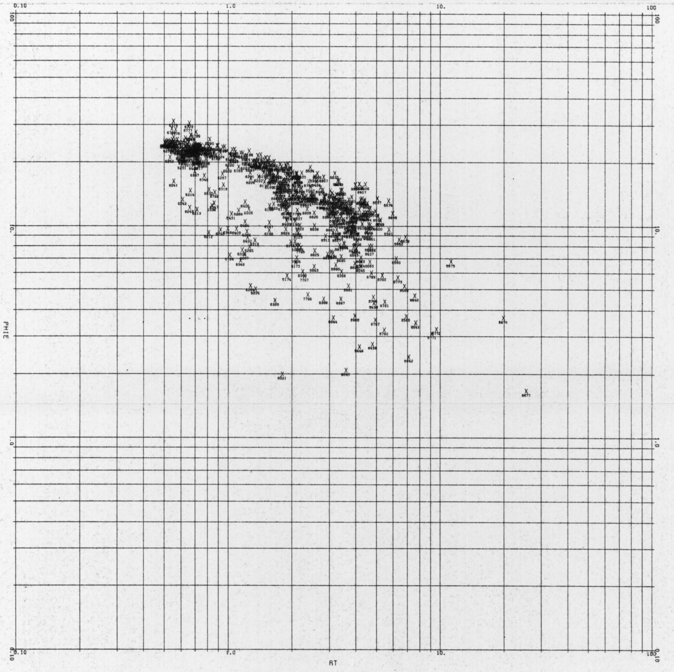
ESSO TAROOK 1 Z11520
PRESSURE VS DEPTH PLOTS
MUD WEIGHT RFT AND DRILL STEM TEST PRESSURES
WILL BE PLOTTED IF AVAILABLE
SYMBOL X - INDICATED MUD WEIGHT PRESSURE
SYMBOL + - INDICATED RFT PRESSURE
SYMBOL O - INDICATED DST PRESSURE
XYTOP= 5100.00 XYBOT= 9088.00 HOLGATE=NO DATE=08/29/87
SYMBOL=X CONDITIONS=(MWPRES GE 100)
24 SYMBOL 'X' POINTS AVAIL AVERAGE MWPRES= 3026.00 AVERAGE DEPTH = 7600.00
JOB NAME=TAROOKBB PLOT TAPE VOL SER.=TD8713



ESSO TAROOK 1 Z11520
BUCKLES PLOT - ZONE ALL
XYTOP= 6128.00 XYBOT= 9087.00 HOLGATE=NO DATE=08/29/87
SYMBOL=X CONDITIONS=(SW.LT.100)
464 SYMBOL 'X' POINTS AVAIL AVERAGE PHIE = 14.90 AVERAGE SW = 86.63
JOB NAME=TAROOKBB, PLOT TAPE VOL. SER.=TD8713



ESSO TAROOK 1 Z11520
PICKETT PLOT - ZONE ALL
XYTOP= 6128.00 XYBOT= 9087.00 HOLGATE=NO DATE=08/29/87
SYMBOL=X CONDITIONS=(SW.LT.100)
464 SYMBOL 'X' POINTS AVAIL AVERAGE RT = 2.34 AVERAGE PHIE = 14.90
JOB NAME=TAROOKBB, PLOT TAPE VOL. SER.=TD8713



5 cm

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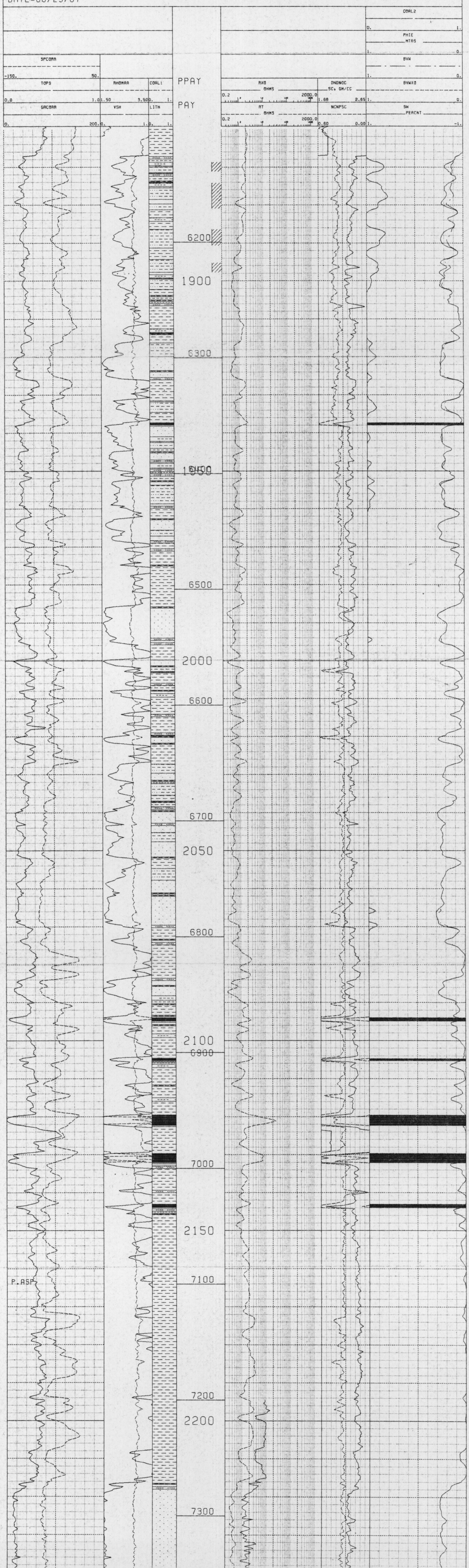
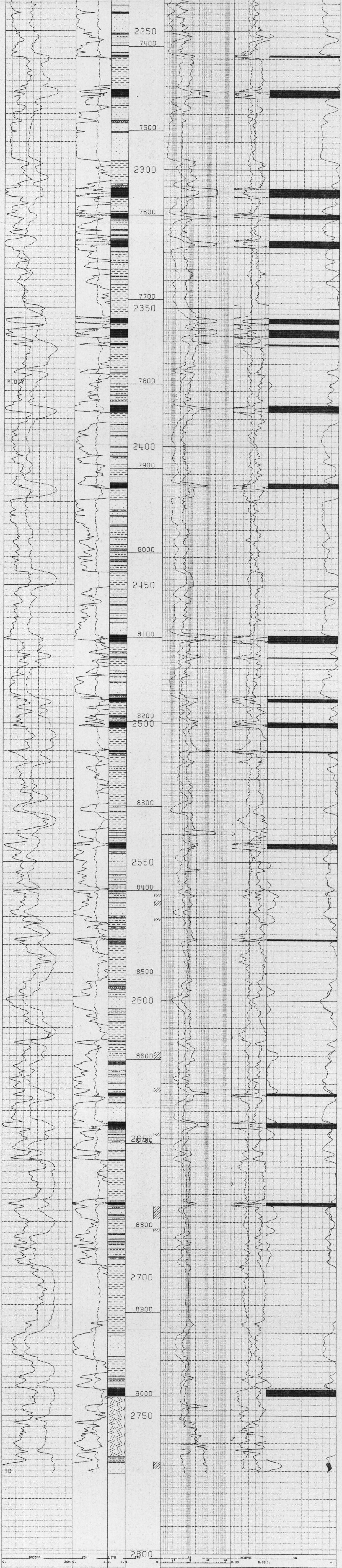
                          AMOCO PRODUCTION COMPANY

  ESSO                                 TAROOK 1                              Z11520
*****************************************************************************
PLOT SCALE       = 1:     500.0000
DEPTH REFERENCE = MDEP
UNITS            = MTRS
*************** PROBABLE PAY ************************************************
   ZONE         ZONE TOP        ZONE BOT         NET           AVE.       AVE.
                                            PROBABLE PAY   POROSITY        SW
1  ALL        1859.3025       2770.6658
2
3
4
5
6
7
8
9
10
TOTAL PROBABLE PAY IN ACTIVE INTERVAL
      1859.3025      2770.6658
*************** POSSIBLE PAY ************************************************
   ZONE          ZONE TOP       ZONE BOT          NET           AVE.         AVE.
                                            POSSIBLE PAY,  POROSITY       SW
1  ALL        1859.3025       2770.6658     36.8812       15.4708        71.4203
2
3
4
5
6
7
8
9
10
TOTAL POSSIBLE PAY IN ACTIVE INTERVAL
      1859.3025      2770.6658        36.8812       15.4708          71.4203
************ NET LITHOLOGY THICKNESS  ***************************************
*************** BY DEFINED ZONES     ***************************************
        NET SAND       NET SHSD       NET SHALE    NET COAL   NET CARBONATE
1      214.2770       180.7486       441.9653      51.2070      1.5240
2
3
4
5
6
7
8
9
10
TOTAL NET LITHOLOGY IN ACTIVE INTERVAL
ACTIVE TOP=   1859.3025,  ACTIVE BOT =   2770.6658
       214.2770       180.7486       441.9653      51.2070          1.5240
******************************************************************************
*     SUMMARY OF IMPORTANT CONSTANTS USED AND/OR COMPUTED IN THIS ANALYSIS     *
* -----------------------------------------------------------                  *
* -----------------PAY CUTOFFS----------------------------                     *
* THICKNESS GREATER THAN 3 FEET (1 METER)                                      *
* PROBABLE PAY: SW LESS THAN 50%                                               *
* POSSIBLE PAY: SW GREATER THAN 50% BUT LESS THAN 80%                          *
* ------------CONSTANTS USED FOR SW CALCULATION-----------                     *
*     A=       0.8100                                                          *
*     M=            2                                                          *
*     N=            2                                                          *
*  METHOD USED TO COMPUTE VSH                                                  *
*    1. GAMMA RAY           =YES                                               *
*    2. SP                  =NO                                                *
*    3. RHOMAA              =NO                                                *
*    4. TMAA                =NO                                                *
*  METHOD USED TO COMPUTE SW                                                   *
*    1. ARCHIE=             =NO                                                *
*    2. DUAL WATER          =YES                                               *
*    3. MODIFIED SIMANDOUX=NO                                                  *
* ----------------- CURVE DEFINITIONS --------------------                     *
* GRCORR : GR CORRECTED FOR HOLE SIZE AND MUDWEIGHT                            *
* SPCORR : SP CORRECTED FOR DRIFT                                              *
* CL     : CALIPER FROM RESISTIVITY TOOL                                       *
* VSH    : VOLUME OF SHALE                                                     *
* RT     : DEEP RESISTIVITY - CORRECTED FOR BOREHOLE ENVIRONMENT               *
* RXO    : SHALLOW RESISTIVITY - CORRECTED FOR BOREHOLE ENVIRONMENT            *
* PHIE   : PHIE - PHIND X (1-VSH)                                              *
* BVW    : PHIE X SW                                                           *
* BVWXO  : PHIE X SXO                                                          *
******************************************************************************
DATE=08/29/87

                                                            COAL2
                                                     0.                     1.
                                                            PHIE
                                                            MTRS
  ESSO                                 TAROOK 1                                 211520
******************************************************************************
PLOT SCALE        = 1:     500.0000
DEPTH REFERENCE = MDEP
UNITS             = MTRS
*************** PROBABLE PAY ********************************************
   ZONE          ZONE TOP        ZONE BOT          NET            AVE.       AVE.
                                               PROBABLE PAY  POROSITY       SW
1  ALL         1859.3025       2770.6658
2
3
4
5
6
7
8
9
10
TOTAL PROBABLE PAY IN ACTIVE INTERVAL
      1859.3025       2770.6658
*************** POSSIBLE PAY ********************************************
   ZONE           ZONE TOP       ZONE BOT           NET            AVE.         AVE.
                     . . .                      POSSIBLE PAY,  POROSITY       SW
1  ALL         1859.3025       2770.6658      36.8812       15.4708       71.4203
2
3
4
5
6
7
8
9
10
TOTAL POSSIBLE PAY IN ACTIVE INTERVAL
      1859.3025       2770.6658          36.8812         15.4708          71.4203
************ NET LITHOLOGY THICKNESS  ************************************
*************** BY DEFINED ZONES      ************************************
          NET SAND        NET SHSD         NET SHALE    NET COAL   NET CARBONATE
1        214.2770        180.7486         441.9653       51.2070       1.5240
2
3
4
5
6
7
8
9
10
TOTAL NET LITHOLOGY IN ACTIVE INTERVAL
ACTIVE TOP=    1859.3025,  ACTIVE BOT =    2770.6658
        214.2770         180.7486         441.9653         51.2070          1.5240
******************************************************************************
*     SUMMARY OF IMPORTANT CONSTANTS USED AND/OR COMPUTED IN THIS ANALYSIS     *
* ---------------------------------------------------------                      *
* -----------------PAY CUTOFFS-----------------------------                      *
* THICKNESS GREATER THAN 3 FEET (1 METER)                                         *
* PROBABLE PAY: SW LESS THAN 50%                                                  *
* POSSIBLE PAY: SW GREATER THAN 50% BUT LESS THAN 80%                             *
* ------------CONSTANTS USED FOR SW CALCULATION------------                       *
*      A=       0.8100                                                             *
*      M=            2                                                             *
*      N=            2                                                             *
*  METHOD USED TO COMPUTE VSH                                                      *
*    1. GAMMA RAY          =YES                                                    *
*    2. SP                 =NO                                                     *
*    3. RHOMAA             =NO                                                     *
*    4. TMAA               =NO                                                     *
*  METHOD USED TO COMPUTE SW                                                       *
*    1. ARCHIE=            =NO                                                     *
*    2. DUAL WATER         =YES                                                    *
*    3. MODIFIED SIMANDOUX=NO                                                      *
* ----------------- CURVE DEFINITIONS -------------------                          *
* GRCORR : GR CORRECTED FOR HOLE SIZE AND MUDWEIGHT                                *
* SPCORR : SP CORRECTED FOR DRIFT                                                  *
* CL     : CALIPER FROM RESISTIVITY TOOL                                           *
* VSH    : VOLUME OF SHALE                                                         *
* RT     : DEEP RESISTIVITY - CORRECTED FOR BOREHOLE ENVIRONMENT                   *
* RXO    : SHALLOW RESISTIVITY - CORRECTED FOR BOREHOLE ENVIRONMENT                *
* PHIE   : PHIE - PHIND X (1-VSH)                                                  *
* BVW    : PHIE X SW                                                               *
* BVWXO  : PHIE X SXO                                                              *
******************************************************************************
DATE=08/29/87
```





ESSO TAROOK 1 Z11520

AMOCO PRODUCTION COMPANY

```
  ESSO                                TAROOK 1                              Z11520
************************************************************************************
PLOT SCALE       = 1:     500.0000
DEPTH REFERENCE = MDEP
UNITS            = MTRS
*************** PROBABLE PAY *******************************************************
  ZONE          ZONE TOP       ZONE BOT        NET              AVE.       AVE.
                                           PROBABLE PAY  POROSITY       SW
1  ALL        1859.3025      2770.6658
2
3
4
5
6
7
8
9
10
TOTAL PROBABLE PAY IN ACTIVE INTERVAL
     1859.3025      2770.6658
************** POSSIBLE PAY ********************************************************
  ZONE           ZONE TOP      ZONE BOT          NET             AVE.        AVE.
                                            POSSIBLE PAY,  POROSITY       SW
1  ALL        1859.3025      2770.6658    36.8812       15.4708       71.4203
2
3
4
5
6
7
8
9
10
TOTAL POSSIBLE PAY IN ACTIVE INTERVAL
     1859.3025      2770.6658         36.8812       15.4708         71.4203
*********** NET LITHOLOGY THICKNESS  ***********************************************
*************** BY DEFINED ZONES      ***********************************************
       NET SAND.      NET SHSD        NET SHALE    NET COAL   NET CARBONATE
1      214.2770       180.7486        441.9653      51.2070     1.5240
2
3
4
5
6
7
8
9
10
TOTAL NET LITHOLOGY IN ACTIVE INTERVAL
ACTIVE TOP=   1859.3025,  ACTIVE BOT =   2770.6658
      214.2770       180.7486        441.9653       51.2070        1.5240
************************************************************************************
*     SUMMARY OF IMPORTANT CONSTANTS USED AND/OR COMPUTED IN THIS ANALYSIS        *
* -------------------------------------------------------------                   *
* -----------------PAY CUTOFFS--------------------------------                    *
* THICKNESS GREATER THAN 3 FEET (1 METER)                                          *
* PROBABLE PAY: SW LESS THAN 50%                                                   *
* POSSIBLE PAY: SW GREATER THAN 50% BUT LESS THAN 80%                              *
* ------------CONSTANTS USED FOR SW CALCULATION------------                        *
*     A=      0.8100                                                               *
*     M=           2                                                               *
*     N=           2                                                               *
*  METHOD USED TO COMPUTE VSH                                                      *
*   1. GAMMA RAY          =YES                                                     *
*   2. SP                 =NO                                                      *
*   3. RHOMAA             =NO                                                      *
*   4. TMAA               =NO                                                      *
*  METHOD USED TO COMPUTE SW                                                       *
*   1. ARCHIE=            =NO                                                      *
*   2. DUAL WATER         =YES                                                     *
*   3. MODIFIED SIMANDOUX=NO                                                       *
* ----------------- CURVE DEFINITIONS -------------------                          *
* GRCORR : GR CORRECTED FOR HOLE SIZE AND MUDWEIGHT                                *
* SPCORR : SP CORRECTED FOR DRIFT                                                  *
* CL     : CALIPER FROM RESISTIVITY TOOL                                           *
* VSH    : VOLUME OF SHALE                                                         *
* RT     : DEEP RESISTIVITY - CORRECTED FOR BOREHOLE ENVIRONMENT                   *
* RXO    : SHALLOW RESISTIVITY - CORRECTED FOR BOREHOLE ENVIRONMENT                *
* PHIE   : PHIE - PHIND X (1-VSH)                                                  *
* BVW    : PHIE X SW                                                               *
* BVWXO  : PHIE X SXO                                                              *
************************************************************************************
DATE=08/29/87
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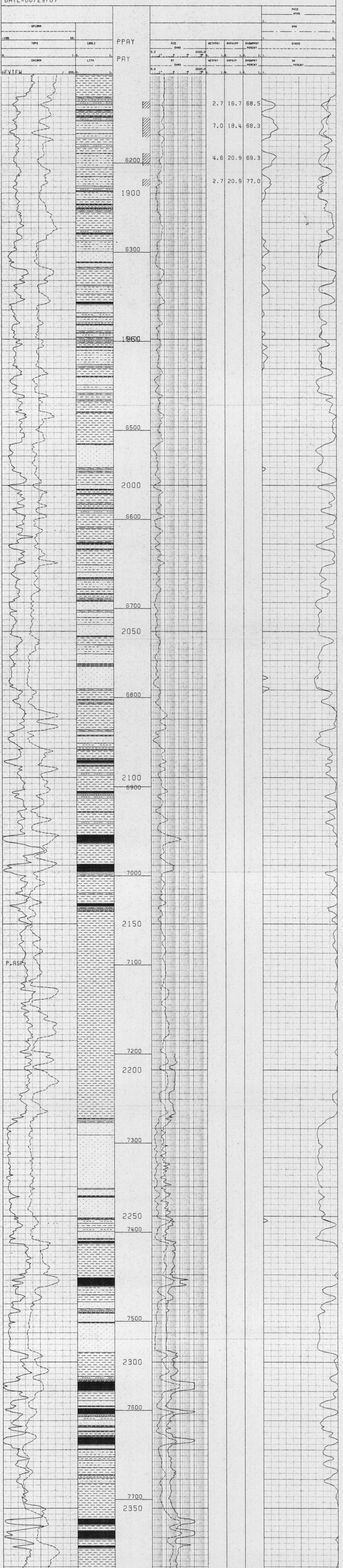

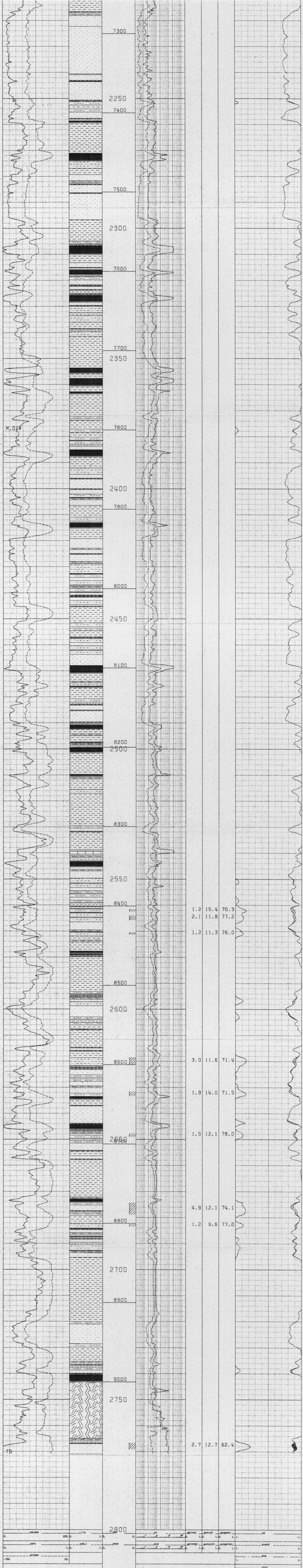

ESSO TARØOK 1 Z11520

```
  ESSO                              TAROOK 1                              Z11520
GAMMA RAY HISTOGRAM
XYTOP= 6102.00 XYBOT= 9090.00 HOLGATE=NO   DATE=08/25/87
SYMBOL=X CONDITIONS=(XPLTRES.EQ.1,SAW.EQ.3)
   665 SYMBOL 'X' POINTS AVAILABLE.
SYMBOL=0 CONDITIONS=(XPLTRES.NE.1,SAW.EQ.3)
   278 SYMBOL '0' POINTS AVAILABLE.
AVERAGE GRRAW =    101.2357  XMODE=       0.0     YMODE=       6.8345
JOB NAME=TAROOKCC,  PLOT TAPE VOL. SER.=TD8719
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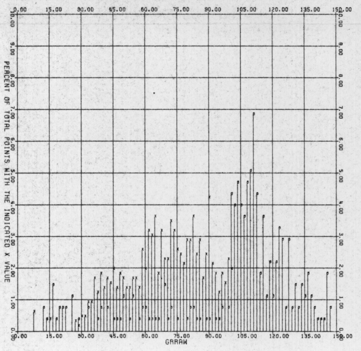

```
  ESSO                              TAROOK 1                              Z11520
EDITED GAMMA RAY HISTOGRAM
XYTOP= 6102.00 XYBOT= 9090.00 HOLGATE=NO   DATE=08/25/87
SYMBOL=X CONDITIONS=(XPLTRES.EQ.1,SAW.EQ.3)
   665 SYMBOL 'X' POINTS AVAILABLE.
SYMBOL=0 CONDITIONS=(XPLTRES.NE.1,SAW.EQ.3)
   332 SYMBOL '0' POINTS AVAILABLE.
AVERAGE GRCORR=      69.9354  XMODE=       0.0     YMODE=       7.2289
JOB NAME=TAROOKCC,  PLOT TAPE VOL. SER.=TD8719
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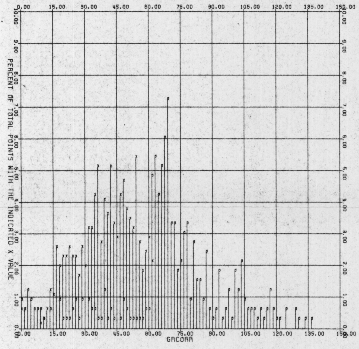

```
  ESSO                              TAROOK 1                              Z11520
SP HISTOGRAM
XYTOP= 6102.00 XYBOT= 9090.00 HOLGATE=NO   DATE=08/25/87
SYMBOL=X CONDITIONS=(XPLTRES.EQ.1,SAW.EQ.3)
   665 SYMBOL 'X' POINTS AVAILABLE.
SYMBOL=0 CONDITIONS=(XPLTRES.NE.1,SAW.EQ.3)
   332 SYMBOL '0' POINTS AVAILABLE.
AVERAGE SPCORR=     -27.3698  XMODE=       0.0     YMODE=       8.4337
JOB NAME=TAROOKCC,  PLOT TAPE VOL. SER.=TD8719
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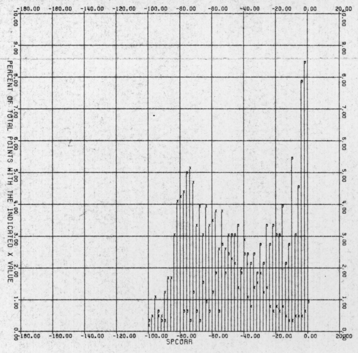

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  ESSO                              TAROOK 1                              Z11520
BULK DENSITY HISTOGRAM
XYTOP= 6102.00 XYBOT= 9090.00 HOLGATE=NO   DATE=08/25/87
SYMBOL=X CONDITIONS=(XPLTRES.EQ.1,SAW.EQ.3)
   665 SYMBOL 'X' POINTS AVAILABLE.
SYMBOL=0 CONDITIONS=(XPLTRES.NE.1,SAW.EQ.3)
   332 SYMBOL '0' POINTS AVAILABLE.
AVERAGE DNDNOC=       2.4009  XMODE=       0.0     YMODE=       9.0361
JOB NAME=TAROOKCC,  PLOT TAPE VOL. SER.=TD8719
```

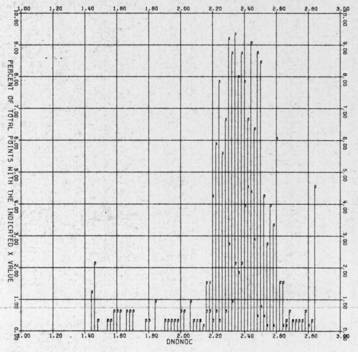

```
  ESSO                              TAROOK 1                              Z11520
NEUTRON POROSITY - LIMESTONE MATRIX - HISTOGRAM
XYTOP= 6102.00 XYBOT= 9084.00 HOLGATE=NO   DATE=08/25/87
SYMBOL=X CONDITIONS=(XPLTRES.EQ.1,SAW.EQ.3)
   659 SYMBOL 'X' POINTS AVAILABLE.
SYMBOL=0 CONDITIONS=(XPLTRES.NE.1,SAW.EQ.3)
   301 SYMBOL '0' POINTS AVAILABLE.
AVERAGE NCNPLC=      33.0717  XMODE=       0.0     YMODE=       7.3090
JOB NAME=TAROOKCC,  PLOT TAPE VOL. SER.=TD8719
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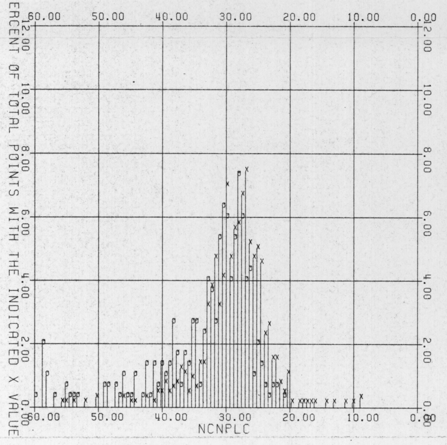

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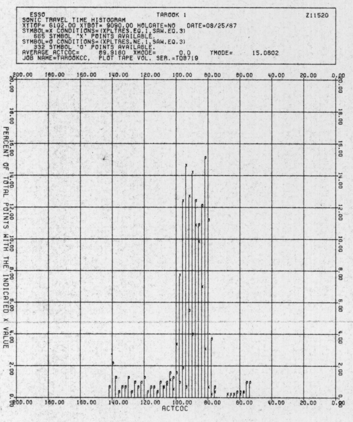

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ESSO                                TAROOK 1                              Z11520
SONIC TRAVEL TIME HISTOGRAM
XYTOP= 6102.00 XYBOT= 9090.00 HOLGATE=NO    DATE=08/25/87
SYMBOL=X CONDITIONS=(XPLTRES.EQ.1,SAW.EQ.3)
   665 SYMBOL 'X' POINTS AVAILABLE.
SYMBOL=O CONDITIONS=(XPLTRES.NE.1,SAW.EQ.3)
   332 SYMBOL 'O' POINTS AVAILABLE.
AVERAGE ACTCOC=      89.9160  XMODE=       0.0     YMODE=     15.0602
JOB NAME=TAROOKCC,  PLOT TAPE VOL. SER.=TD8719
```
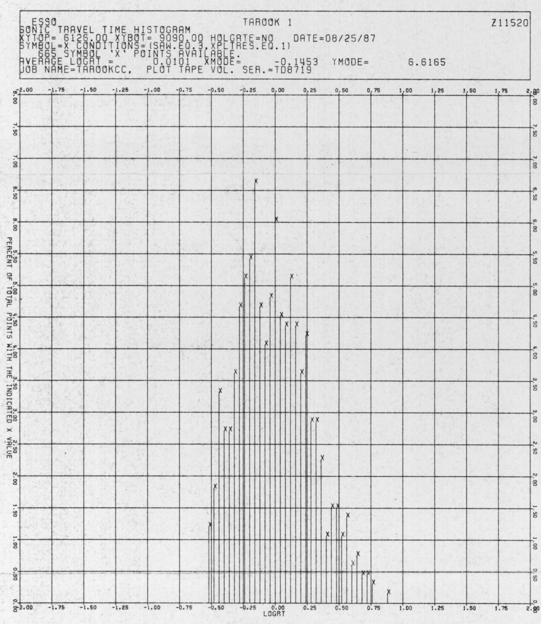
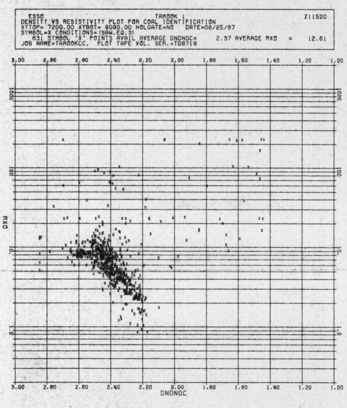
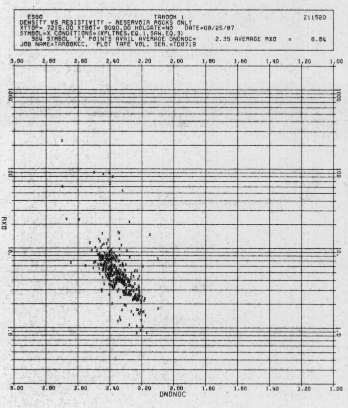



```
 ESSO                          TAROOK 1                         Z11520
SONIC TRAVEL TIME HISTOGRAM
XYTOP= 6126.00 XYBOT= 9090.00 HOLGATE=NO    DATE=08/25/87
SYMBOL=X CONDITIONS=(SAW.EQ.3,XPLTRES.EQ.1)
   665 SYMBOL 'X' POINTS AVAILABLE.
AVERAGE LOGRT =        0.0101  XMODE=        -0.1453  YMODE=       6.6165
JOB NAME=TAROOKCC,   PLOT TAPE VOL. SER.=TD8719
```



```
 ESSO                         TAROOK 1                              Z11520
DENSITY VS RESISTIVITY PLOT FOR COAL IDENTIFICATION
XYTOP= 7200.00 XYBOT= 9090.00 HOLGATE=NO    DATE=08/25/87
SYMBOL=X CONDITIONS=(SAW.EQ.3)
   631 SYMBOL 'X' POINTS AVAIL AVERAGE DNDNOC=      2.37 AVERAGE RXO    =     12.61
JOB NAME=TAROOKCC,  PLOT TAPE VOL. SER.=TD8719
```



```
 ESSO                         TAROOK 1                              Z11520
DENSITY VS RESISTIVITY - RESERVOIR ROCKS ONLY
XYTOP= 7215.00 XYBOT= 9090.00 HOLGATE=NO    DATE=08/25/87
SYMBOL=X CONDITIONS=(XPLTRES.EQ.1,SAW.EQ.3)
   364 SYMBOL 'X' POINTS AVAIL AVERAGE DNDNOC=      2.35 AVERAGE RXO    =      6.84
JOB NAME=TAROOKCC,  PLOT TAPE VOL. SER.=TD8719
```

OR-277

Amoco Australia Petroleum Company

BASS BASIN

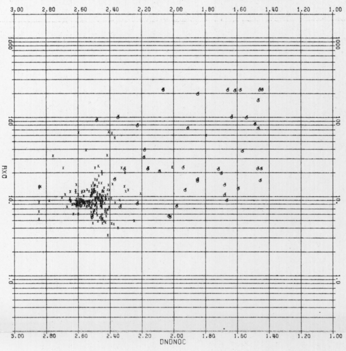
COMPUTER LOG ANALYSIS DISPLAYS
PART-2
TAROOK-1

Aug. 1987	R-87-051, Appendix F
P. Stokes	Enclosure: 17

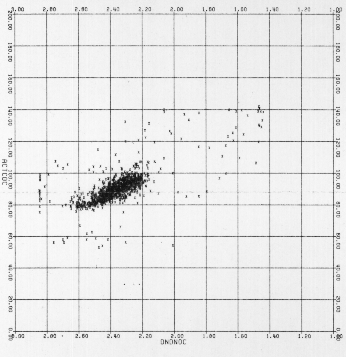
313769

5 cm

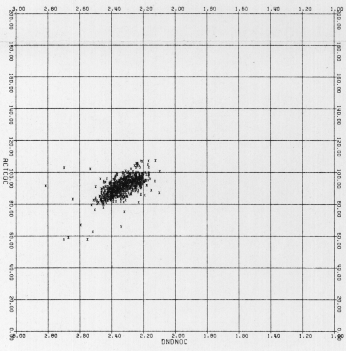
```
  ESSO                                     TAROOK 1                                  Z11520
DENSITY VS RESISTIVITY - NON-RESERVOIR ROCKS ONLY
XYTOP= 7200.00 XYBOT= 9075.00 HOLGATE=NO    DATE=08/25/87
SYMBOL=X CONDITIONS=(XPLTRES.NE.1,SAW.EQ.3)
   267 SYMBOL 'X' POINTS AVAIL AVERAGE DNDNOC=      2.41 AVERAGE RXO    =    20.47
SYMBOL=_ CONDITIONS=(XPLTRES.NE.1,COALFLAG.EQ.1,SAW.EQ.3)
    46 SYMBOL '_' POINTS AVAIL AVERAGE DNDNOC=      1.90 AVERAGE RXO    =    66.89
JOB NAME=TAROOKCC,  PLOT TAPE VOL. SER.=TD8719
```



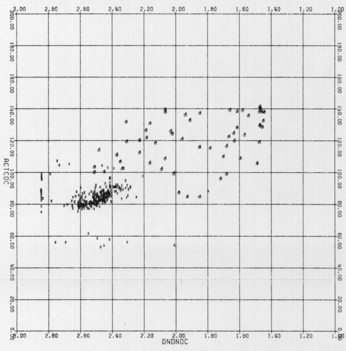
```
  ESSO                               TAROOK 1                             Z11520
DENSITY VS SONIC LOG - ALL ROCKS
XYTOP= 6102.00 XYBOT= 9090.00 HOLGATE=NO    DATE=08/25/87
SYMBOL=X CONDITIONS=(SAW.EQ.3)
   997 SYMBOL 'X' POINTS AVAIL AVERAGE DNDNOC=      2.36 AVERAGE ACTCOC=    90.18
JOB NAME=TAROOKCC,  PLOT TAPE VOL. SER.=TD8719
```



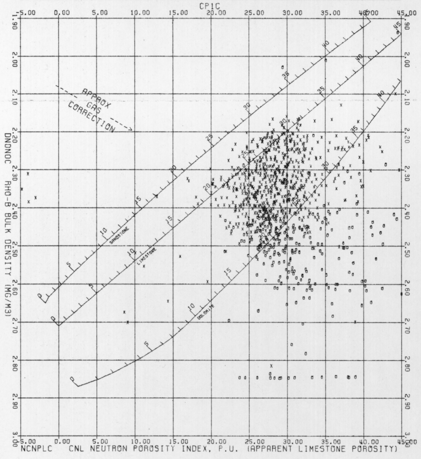
```
  ESSO                               TAROOK 1                             Z11520
DENSITY VS SONIC LOG - RESERVOIR ROCKS ONLY
XYTOP= 6126.00 XYBOT= 9090.00 HOLGATE=NO    DATE=08/25/87
SYMBOL=X CONDITIONS=(XPLTRES.EQ.1,SAW.EQ.3)
   665 SYMBOL 'X' POINTS AVAIL AVERAGE DNDNOC=      2.34 AVERAGE ACTCOC=    90.32
JOB NAME=TAROOKCC,  PLOT TAPE VOL. SER.=TD8719
```



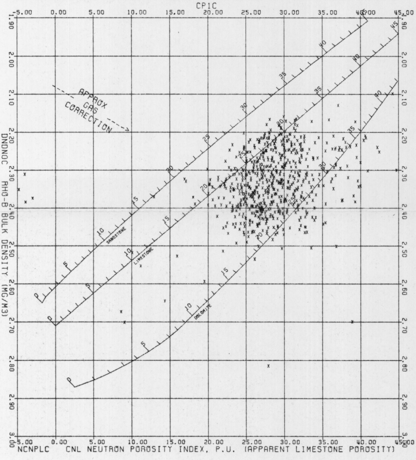
```
  ESSO                               TAROOK 1                             Z11520
DENSITY VS SONIC LOG - NON-RESERVOIR ROCKS ONLY
XYTOP= 6102.00 XYBOT= 9075.00 HOLGATE=NO    DATE=08/25/87
SYMBOL=X CONDITIONS=(XPLTRES.NE.1,SAW.EQ.3)
   332 SYMBOL 'X' POINTS AVAIL AVERAGE DNDNOC=      2.40 AVERAGE ACTCOC=    89.92
SYMBOL=_ CONDITIONS=(XPLTRES.NE.1,COALFLAG.EQ.1,SAW.EQ.3)
    58 SYMBOL '_' POINTS AVAIL AVERAGE DNDNOC=      1.88 AVERAGE ACTCOC=   119.91
JOB NAME=TAROOKCC,  PLOT TAPE VOL. SER.=TD8719
```



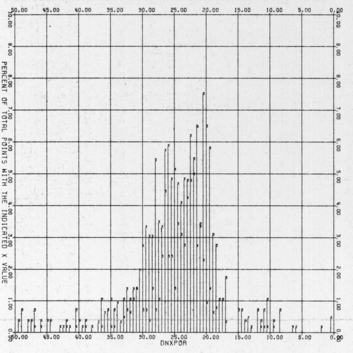
```
  ESSO                                TAROOK 1                               Z11520
DENSITY VS SONIC LOG - ALL ROCKS
XYTOP= 6111.00 XYBOT= 9087.00 HOLGATE=NO    DATE=08/25/87
SYMBOL=X CONDITIONS=(XPLTRES.EQ.1,SAW.EQ.3)
   655 SYMBOL 'X' POINTS AVAIL AVERAGE NCNPLC=     28.12 AVERAGE DNDNOC=      2.34
SYMBOL=O CONDITIONS=(XPLTRES.NE.1,SAW.EQ.3)
   273 SYMBOL 'O' POINTS AVAIL AVERAGE NCNPLC=     31.15 AVERAGE DNDNOC=      2.51
JOB NAME=TAROOKCC,  PLOT TAPE VOL. SER.=TD8719
```



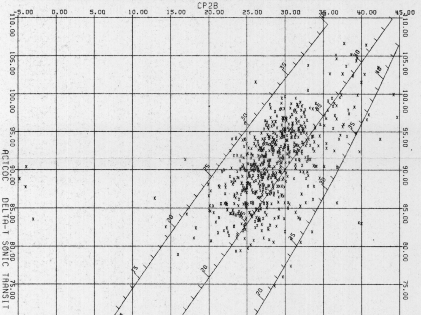
```
  ESSO                                 TAROOK 1                                Z11520
RESERVOIR ROCKS ONLY
XYTOP= 6126.00 XYBOT= 9087.00 HOLGATE=NO   DATE=08/25/87
SYMBOL=X CONDITIONS=(XPLTRES.EQ.1,SAW.EQ.3)
   655 SYMBOL 'X' POINTS AVAIL AVERAGE NCNPLC=    28.12 AVERAGE DNDNOC=     2.34
JOB NAME=TAROOKCC,  PLOT TAPE VOL. SER.=TD8719
```



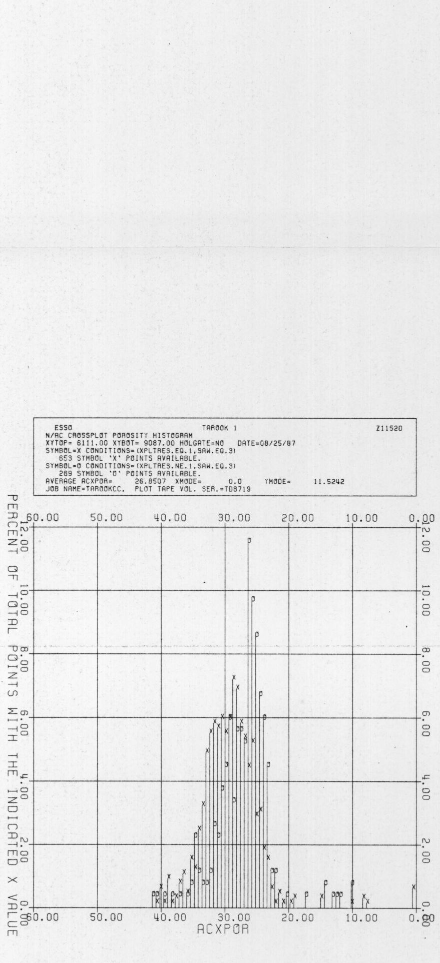
```
  ESSO                                 TAROOK 1                                Z11520
N/D CROSSPLOT POROSITY HISTOGRAM
XTTOP= 6102.00 XYBOT= 9090.00 HOLGATE=NO   DATE=08/25/87
SYMBOL=X CONDITIONS=(XPLTRES.EQ.1,SAW.EQ.3)
   665 SYMBOL 'X' POINTS AVAILABLE.
SYMBOL=0 CONDITIONS=(XPLTRES.NE.1,SAW.EQ.3)
   294 SYMBOL '0' POINTS AVAILABLE.
AVERAGE DNXPOR=      23.6254  XMODE=       0.0      YMODE=       7.4830
JOB NAME=TAROOKCC,  PLOT TAPE VOL. SER.=TD8719
```



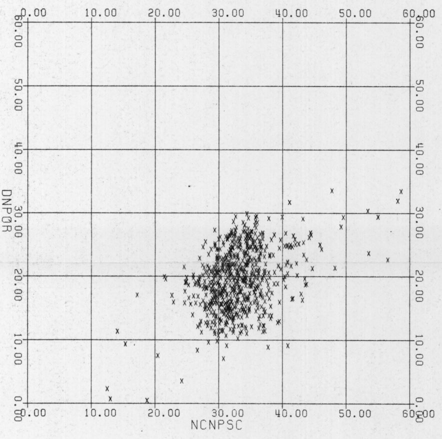
```
  ESSO                                 TAROOK 1                                Z11520
RESERVOIR ROCKS ONLY
XYTOP= 6126.00 XYBOT= 9087.00 HOLGATE=NO   DATE=08/25/87
SYMBOL=X CONDITIONS=(XPLTRES.EQ.1,SAW.EQ.3)
   655 SYMBOL 'X' POINTS AVAIL AVERAGE NCNPLC=    28.12 AVERAGE ACTCOC=    90.28
JOB NAME=TAROOKCC,  PLOT TAPE VOL. SER.=TD8719
```



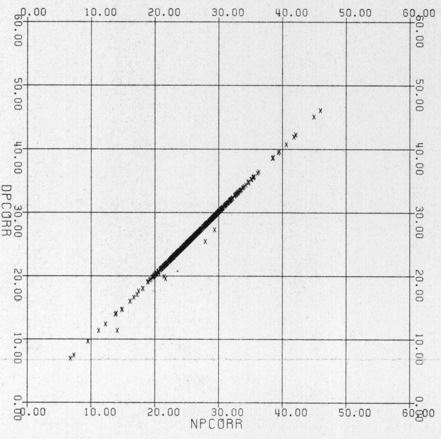
```
  ESSO                                 TAROOK 1                                Z11520
N/AC CROSSPLOT POROSITY HISTOGRAM
XYTOP= 6111.00 XYBOT= 9087.00 HOLGATE=NO   DATE=08/25/87
SYMBOL=X CONDITIONS=(XPLTRES.EQ.1,SAW.EQ.3)
   653 SYMBOL 'X' POINTS AVAILABLE.
SYMBOL=0 CONDITIONS=(XPLTRES.NE.1,SAW.EQ.3)
   269 SYMBOL '0' POINTS AVAILABLE.
AVERAGE ACXPOR=      26.8507  XMODE=       0.0      YMODE=      11.5242
JOB NAME=TAROOKCC,  PLOT TAPE VOL. SER.=TD8719
```



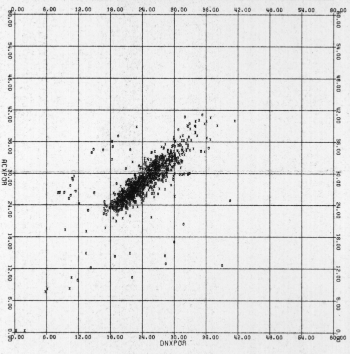
```
  ESSO                               TAROOK 1                          Z11520
NEUTRON POROSITY VS DENSITY POROSITY - SANDSTONE MATRIX
XYTOP= 6126.00 XYBOT= 9084.00 HOLGATE=NO   DATE=08/25/87
SYMBOL=X CONDITIONS=(XPLTRES.EQ.1,SAW.EQ.3)
   657 SYMBOL 'X' POINTS AVAIL AVERAGE NCNPSC=    32.95 AVERAGE DNPOR =    19.15
JOB NAME=TAROOKCC,  PLOT TAPE VOL. SER.=TD8719
```



```
  ESSO                               TAROOK 1                          Z11520
NEUTRON POROSITY VS DENSITY POROSITY - SANDSTONE MATRIX
XYTOP= 6126.00 XYBOT= 9090.00 HOLGATE=NO   DATE=08/25/87
SYMBOL=X CONDITIONS=(XPLTRES.EQ.1,SAW.EQ.3)
   665 SYMBOL 'X' POINTS AVAIL AVERAGE NPCORR=    25.94 AVERAGE DPCORR=    25.82
JOB NAME=TAROOKCC,  PLOT TAPE VOL. SER.=TD8719
```



```
  ESSO                               TAROOK 1                          Z11520
XYTOP= 6111.00 XYBOT= 9087.00 HOLGATE=NO   DATE=08/25/87
SYMBOL=X CONDITIONS=(XPLTRES.EQ.1,SAW.EQ.3)
   653 SYMBOL 'X' POINTS AVAIL AVERAGE DNXPOR=    25.07 AVERAGE ACXPOR=    28.96
SYMBOL=0 CONDITIONS=(XPLTRES.NE.1,SAW.EQ.3)
   269 SYMBOL '0' POINTS AVAIL AVERAGE DNXPOR=    22.15 AVERAGE ACXPOR=    26.85
JOB NAME=TAROOKCC,  PLOT TAPE VOL. SER.=TD8719
```



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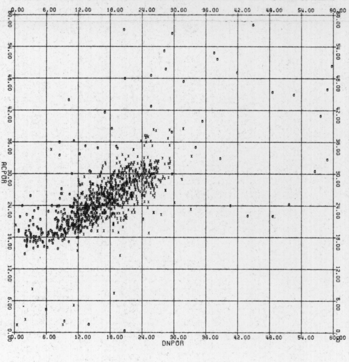
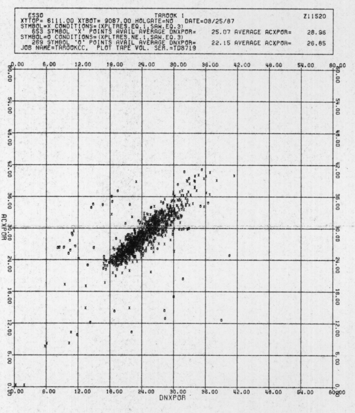
  ESSO                               TAROOK 1                          Z11520
XYTOP= 6126.00 XYBOT= 9090.00 HOLGATE=NO   DATE=08/25/87
SYMBOL=X CONDITIONS=(XPLTRES.EQ.1,SAW.EQ.3)
   663 SYMBOL 'X' POINTS AVAIL AVERAGE DNPOR =    19.13 AVERAGE ACPOR =    26.05
SYMBOL=0 CONDITIONS=(XPLTRES.NE.1,SAW.EQ.3)
   274 SYMBOL '0' POINTS AVAIL AVERAGE DNPOR =    13.12 AVERAGE ACPOR =    23.60
JOB NAME=TAROOKCC,  PLOT TAPE VOL. SER.=TD8719
```





```
   ESSO                          TAROOK 1                              Z11520
XYTOP= 6111.00 XYBOT= 9087.00 HOLGATE=NO   DATE=08/25/87
SYMBOL=X CONDITIONS=(XPLTRES.EQ.1,SAW.EQ.3)
   653 SYMBOL 'X' POINTS AVAIL AVERAGE DNXPOR=    25.07 AVERAGE ACXPOR=    28.96
SYMBOL=0 CONDITIONS=(XPLTRES.NE.1,SAW.EQ.3)
   269 SYMBOL '0' POINTS AVAIL AVERAGE DNXPOR=    22.15 AVERAGE ACXPOR=    26.85
JOB NAME=TAROOKCC,  PLOT TAPE VOL. SER.=TD8719
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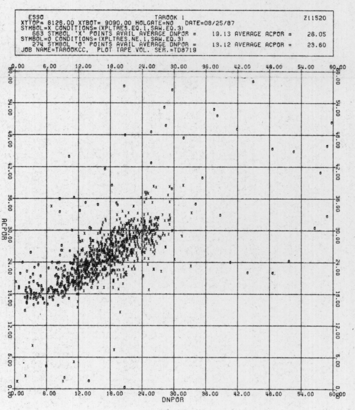

```
   ESSO                          TAROOK 1                              Z11520
XYTOP= 6126.00 XYBOT= 9090.00 HOLGATE=NO   DATE=08/25/87
SYMBOL=X CONDITIONS=(XPLTRES.EQ.1,SAW.EQ.3)
   663 SYMBOL 'X' POINTS AVAIL AVERAGE DNPOR =    19.13 AVERAGE ACPOR =    26.05
SYMBOL=0 CONDITIONS=(XPLTRES.NE.1,SAW.EQ.3)
   274 SYMBOL '0' POINTS AVAIL AVERAGE DNPOR =    13.12 AVERAGE ACPOR =    23.60
JOB NAME=TAROOKCC,  PLOT TAPE VOL. SER.=TD8719
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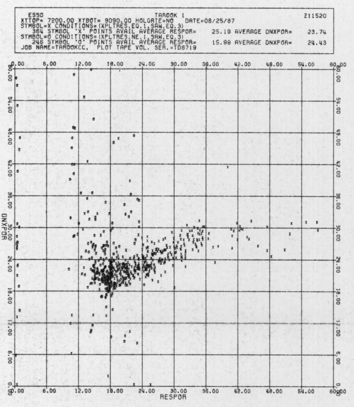
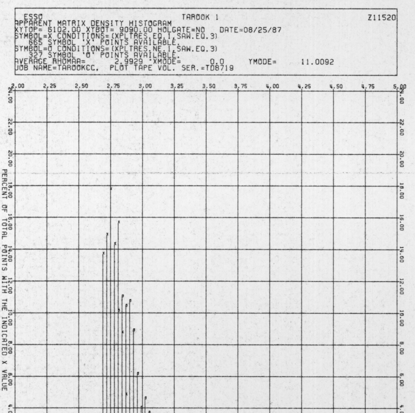
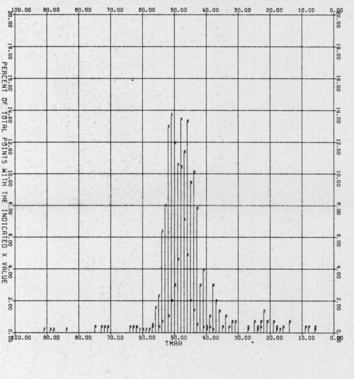


```
   ESSO                          TAROOK 1                              Z11520
XYTOP= 7200.00 XYBOT= 9090.00 HOLGATE=NO   DATE=08/25/87
SYMBOL=X CONDITIONS=(XPLTRES.EQ.1,SAW.EQ.3)
   364 SYMBOL 'X' POINTS AVAIL AVERAGE RESPOR=    25.19 AVERAGE DNXPOR=    23.74
SYMBOL=0 CONDITIONS=(XPLTRES.NE.1,SAW.EQ.3)
   246 SYMBOL '0' POINTS AVAIL AVERAGE RESPOR=    15.99 AVERAGE DNXPOR=    24.43
JOB NAME=TAROOKCC,  PLOT TAPE VOL. SER.=TD8719
```



```
   ESSO                          TAROOK 1                              Z11520
APPARENT MATRIX DENSITY HISTOGRAM
XYTOP= 6102.00 XYBOT= 9090.00 HOLGATE=NO   DATE=08/25/87
SYMBOL=X CONDITIONS=(XPLTRES.EQ.1,SAW.EQ.3)
   665 SYMBOL 'X' POINTS AVAILABLE.
SYMBOL=0 CONDITIONS=(XPLTRES.NE.1,SAW.EQ.3)
   327 SYMBOL '0' POINTS AVAILABLE.
AVERAGE RHOMAA=      2.9929  XMODE=       0.0     YMODE=      11.0092
JOB NAME=TAROOKCC,  PLOT TAPE VOL. SER.=TD8719
```

5 cm



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   ESSO                          TAROOK 1                              Z11520
APPARENT MATRIX DENSITY HISTOGRAM
XYTOP= 6102.00 XYBOT= 9090.00 HOLGATE=NO   DATE=08/25/87
SYMBOL=X CONDITIONS=(XPLTRES.EQ.1,SAW.EQ.3)
   665 SYMBOL 'X' POINTS AVAILABLE.
SYMBOL=0 CONDITIONS=(XPLTRES.NE.1,SAW.EQ.3)
   309 SYMBOL '0' POINTS AVAILABLE.
AVERAGE TMAA  =      43.2084  XMODE=       0.0     YMODE=      13.2686
JOB NAME=TAROOKCC,  PLOT TAPE VOL. SER.=TD8719
```
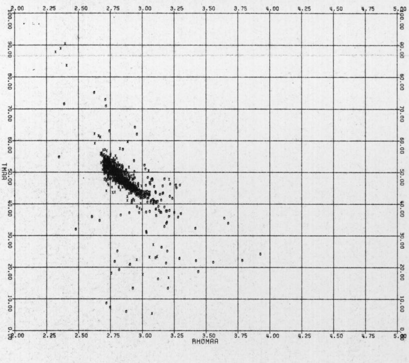

```
  ESSO                          TAROOK 1                              Z11520
XYTOP= 6102.00 XYBOT= 9090.00 HOLGATE=NO   DATE=08/25/87
SYMBOL=X CONDITIONS=(XPLTRES.EQ.1,SAW.EQ.3)
   665 SYMBOL 'X' POINTS AVAIL AVERAGE RHOMAA=     2.79 AVERAGE TMAA  =    49.54
SYMBOL=0 CONDITIONS=(XPLTRES.NE.1,SAW.EQ.3)
   309 SYMBOL '0' POINTS AVAIL AVERAGE RHOMAA=     2.95 AVERAGE TMAA  =    43.21
JOB NAME=TAROOKCC,   PLOT TAPE VOL. SER.=TD8719
```



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  ESSO                          TAROOK 1                              Z11520
XYTOP= 6126.00 XYBOT= 9090.00 HOLGATE=NO   DATE=08/25/87
SYMBOL=X CONDITIONS=(XPLTRES.EQ.1,VSH.LE.0.25)
  1167 SYMBOL 'X' POINTS AVAILABLE.
AVERAGE RWA75 =      0.1614  XMODE=      0.1230  YMODE=      34.2734
JOB NAME=TAROOKCC,   PLOT TAPE VOL. SER.=TD8719
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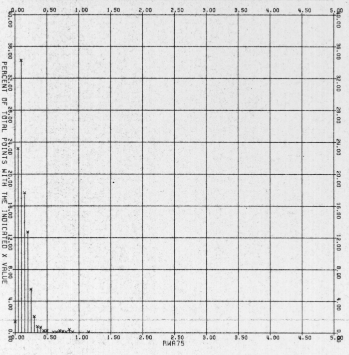

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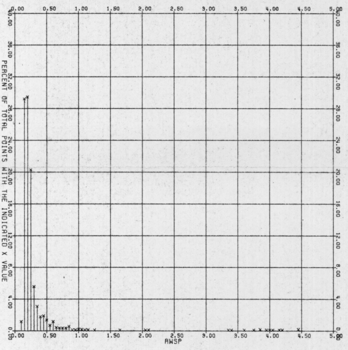
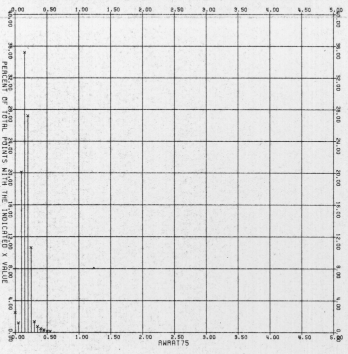
  ESSO                          TAROOK 1                              Z11520
XYTOP= 6126.00 XYBOT= 9090.00 HOLGATE=NO   DATE=08/25/87
SYMBOL=X CONDITIONS=(XPLTRES.EQ.1,VSH.LE.0.25)
  1167 SYMBOL 'X' POINTS AVAILABLE.
AVERAGE RWSP  =      0.3129  XMODE=      0.2219  YMODE=      29.4754
JOB NAME=TAROOKCC,   PLOT TAPE VOL. SER.=TD8719
```



```
  ESSO                          TAROOK 1                              Z11520
XYTOP= 7246.00 XYBOT= 9090.00 HOLGATE=NO   DATE=08/25/87
SYMBOL=X CONDITIONS=(XPLTRES.EQ.1,VSH.LE.0.25)
   676 SYMBOL 'X' POINTS AVAILABLE.
AVERAGE RWRAT7=      0.1907  XMODE=      0.1752  YMODE=      35.2057
JOB NAME=TAROOKCC,   PLOT TAPE VOL. SER.=TD8719
```



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  ESSO                          TAROOK 1                              Z11520
XYTOP= 7246.00 XYBOT= 9090.00 HOLGATE=NO   DATE=08/25/87
SYMBOL=X CONDITIONS=(XPLTRES.EQ.1,VSH.LE.0.25)
   665 SYMBOL 'X' POINTS AVAILABLE.
AVERAGE RMFA75=      0.6124  XMODE=      0.5266  YMODE=      13.5338
JOB NAME=TAROOKCC,   PLOT TAPE VOL. SER.=TD8719
```
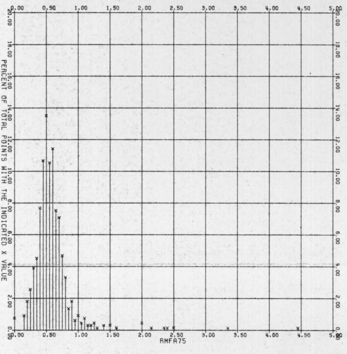
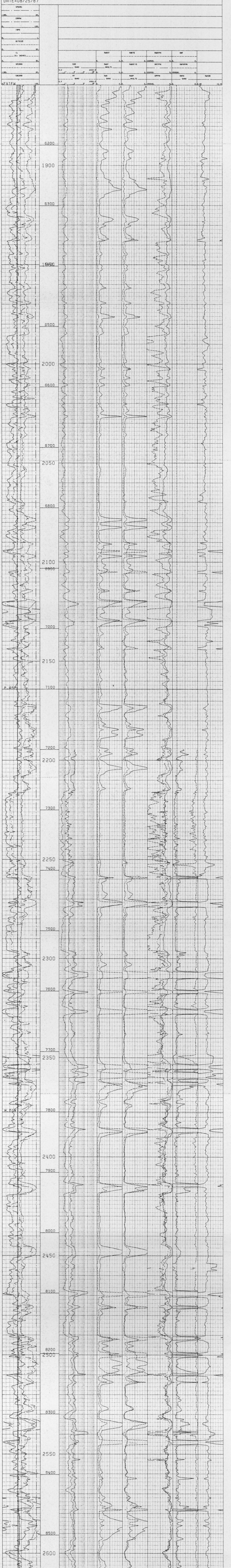



AMOCO PRODUCTION COMPANY

ESSO
TAROOK 1
Z11520

RW COMPUTATION FROM SP, RWA, RW RATIO METHODS
DATE=08/25/87