Amoco Australia Petroleum Company

BASS BASIN

COMPUTER LOG ANALYSIS DISPLAYS
PART-2
TOOLKA-1

Aug. 1987	R-87-051, Appendix F
P. Stokes	Enclosure: 19

OR 277

313776

5 cm

AMOCO PRODUCTION COMPANY

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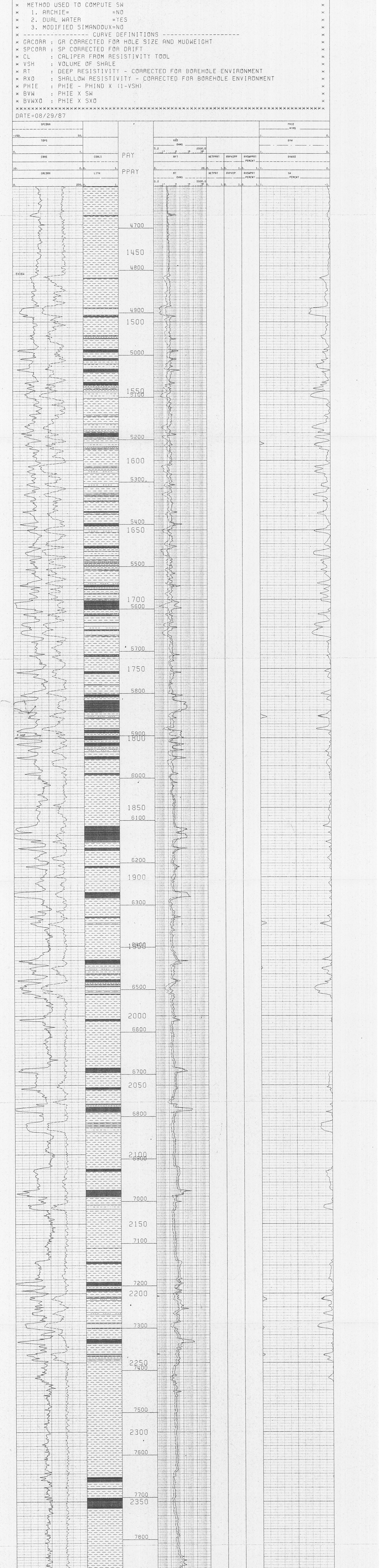
 ESSO                          TOOLKA 1A                          Z12820
************************************************************************
PLOT SCALE       = 1:    1000.0000
DEPTH REFERENCE = MDEP
UNITS            = MTRS
*************** PROBABLE PAY *******************************************
   ZONE         ZONE TOP       ZONE BOT          NET          AVE.      AVE.
                                            PROBABLE PAY  POROSITY      SW
1  ALL         1466.1057       2695.6841
2
3
4
5
6
7
8
9
10
TOTAL PROBABLE PAY IN ACTIVE INTERVAL
      1402.0969      2715.8010
************** POSSIBLE PAY ********************************************
   ZONE          ZONE TOP      ZONE BOT          NET          AVE.        AVE.
                                            POSSIBLE PAY.  POROSITY      SW
1  ALL         1466.1057       2695.6841
2
3
4
5
6
7
8
9
10
TOTAL POSSIBLE PAY IN ACTIVE INTERVAL
      1402.0969      2715.8010
*********** NET LITHOLOGY THICKNESS  ***********************************
*************** BY DEFINED ZONES     ***********************************
        NET SAND      NET SHSD       NET SHALE    NET COAL   NET CARBONATE
1       22.8603        81.6874       951.5972      129.5416      0.0
2
3
4
5
6
7
8
9
10
TOTAL NET LITHOLOGY IN ACTIVE INTERVAL
ACTIVE TOP=   1402.0969,  ACTIVE BOT =   2715.8010
        22.8603        81.6874       951.5972      129.5416        0.0
*************************************************************************
*     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 TOOLKA 1A Z12820

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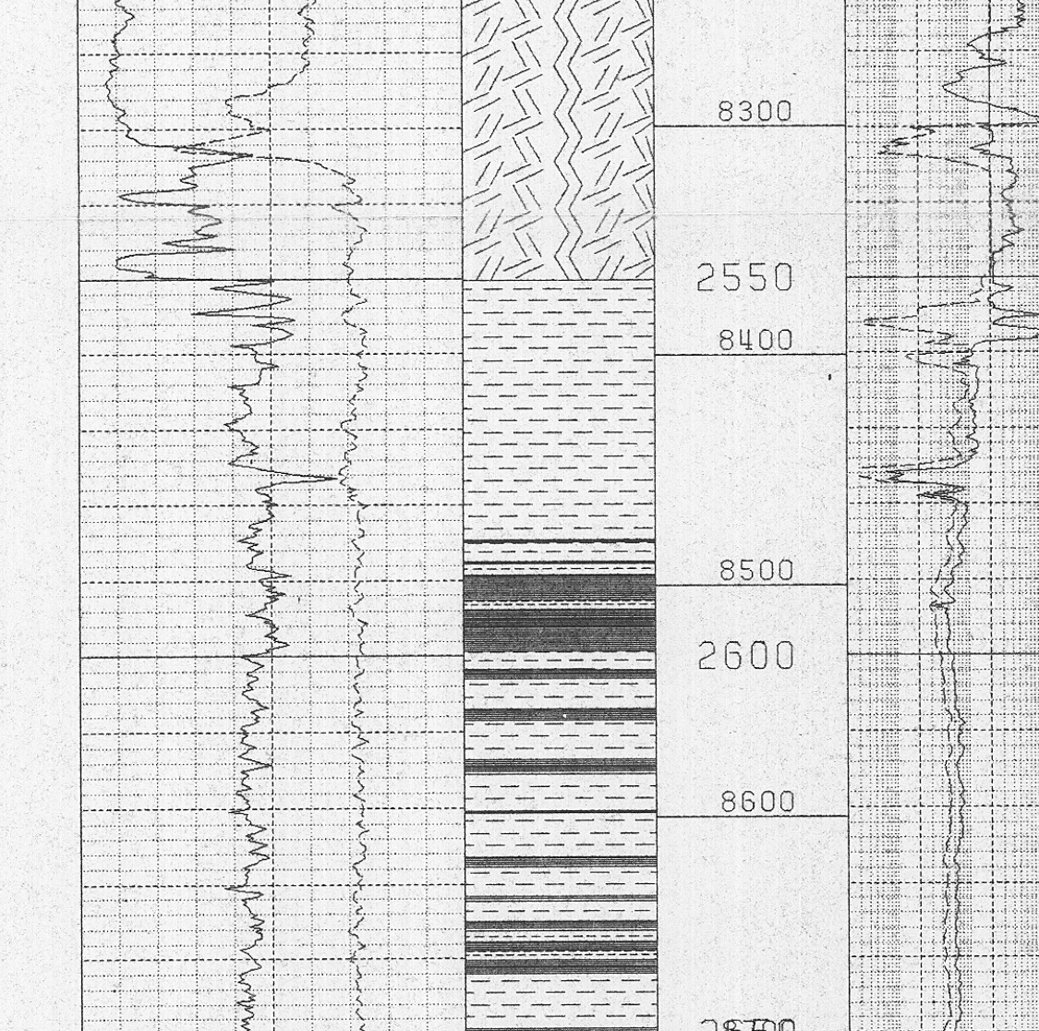
 ESSO                          TOOLKA 1A                          Z12820
GAMMA RAY HISTOGRAM
XYTOP= 4312.00 XYBOT= 8893.00 HOLGATE=NO   DATE=08/27/87
SYMBOL=X CONDITIONS=(XPLTRES.EQ.1,SAW.EQ.3)
   179 SYMBOL 'X' POINTS AVAILABLE.
SYMBOL=O CONDITIONS=(XPLTRES.NE.1,SAW.EQ.3)
  1204 SYMBOL 'O' POINTS AVAILABLE.
AVERAGE GRAAW =     88.6494  XMODE=       0.0     YMODE=      3.6545
JOB NAME=TOOLKAAA,  PLOT TAPE VOL. SER.=TD8749
```



```
 ESSO                          TOOLKA 1A                          Z12820
EDITED GAMMA RAY HISTOGRAM
XYTOP= 4312.00 XYBOT= 8908.00 HOLGATE=NO   DATE=08/27/87
SYMBOL=X CONDITIONS=(XPLTRES.EQ.1,SAW.EQ.3)
   180 SYMBOL 'X' POINTS AVAILABLE.
SYMBOL=O CONDITIONS=(XPLTRES.NE.1,SAW.EQ.3)
  1353 SYMBOL 'O' POINTS AVAILABLE.
AVERAGE GRCORR=     56.5470  XMODE=       0.0     YMODE=      4.2129
JOB NAME=TOOLKAAA,  PLOT TAPE VOL. SER.=TD8749
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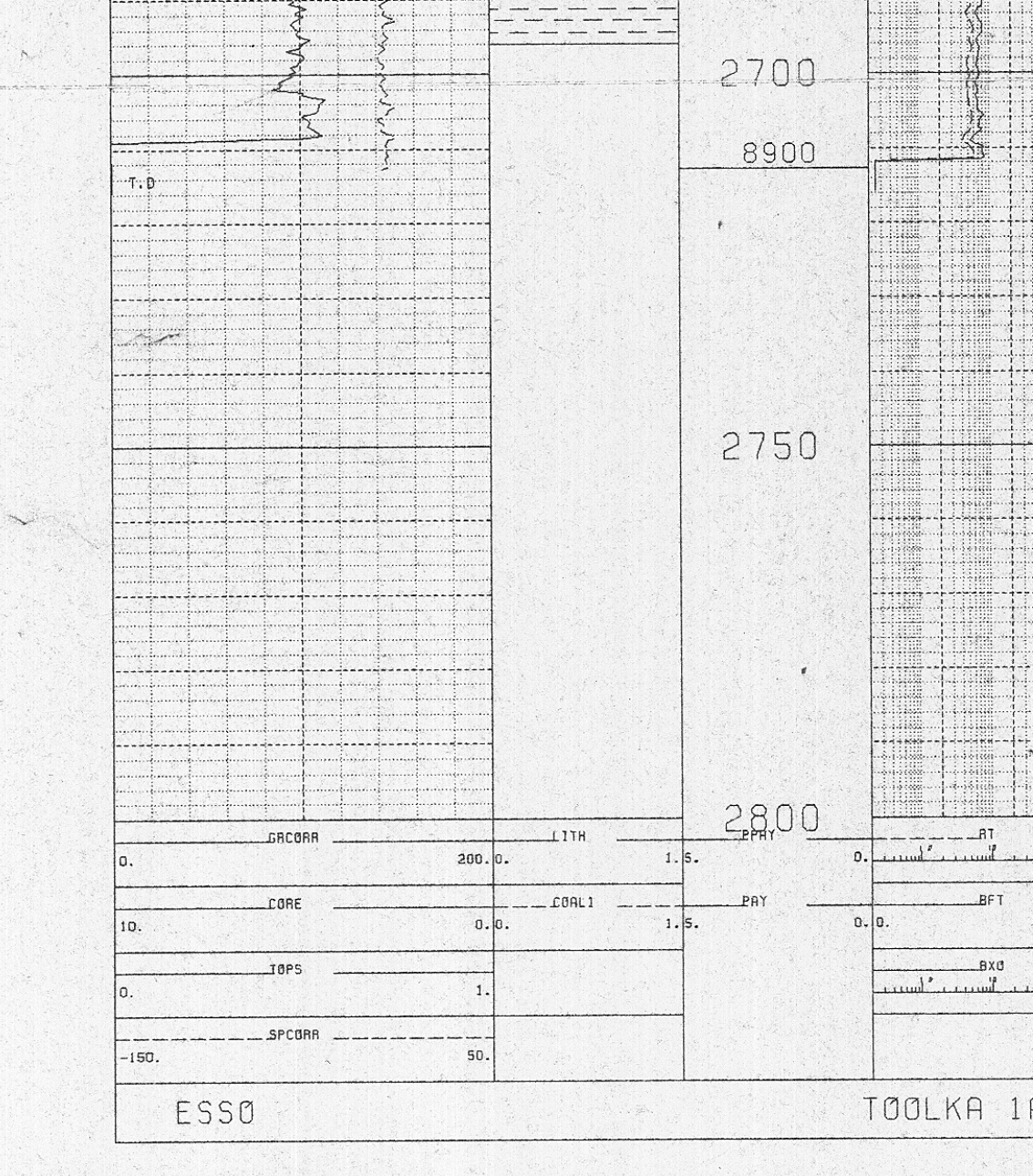

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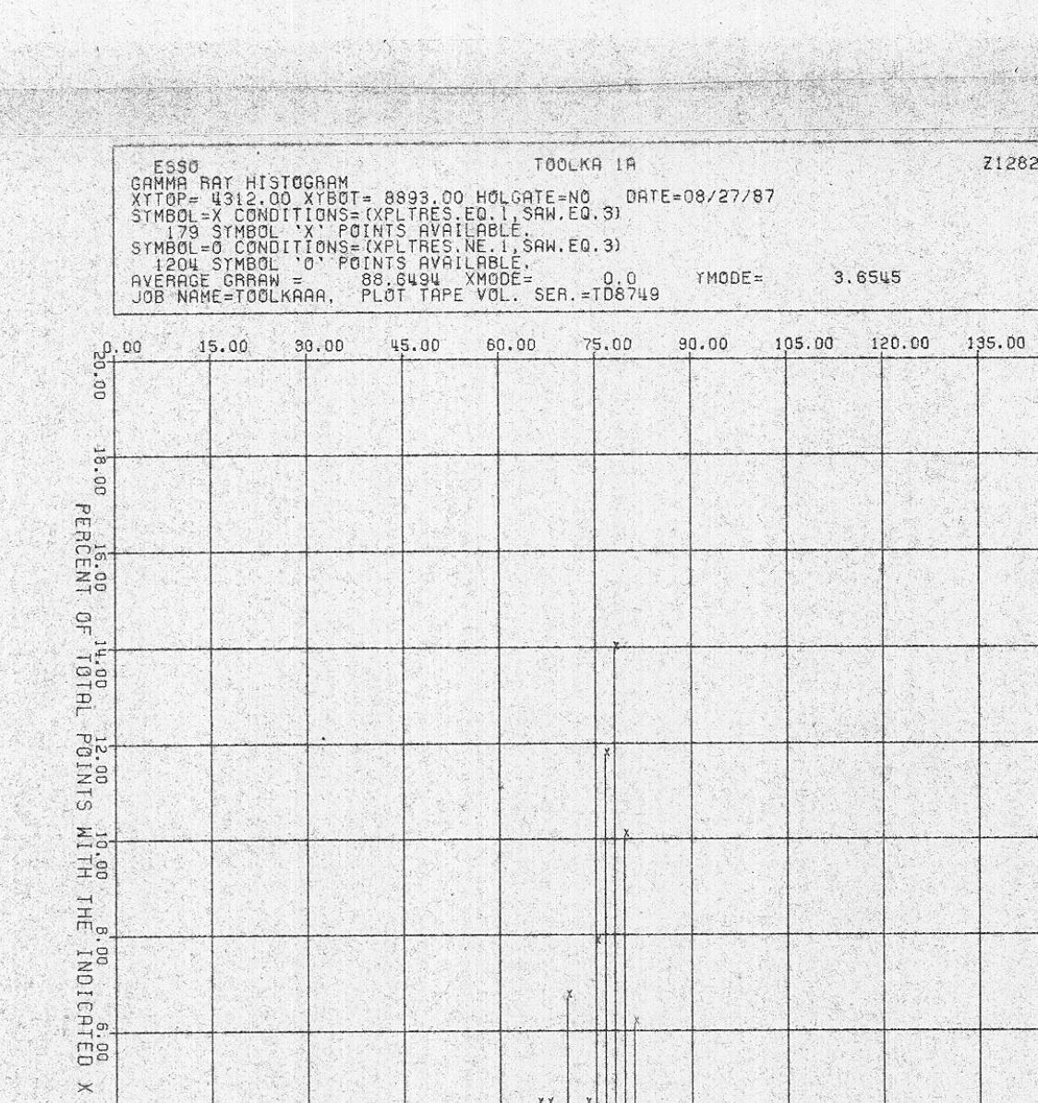
 ESSO                          TOOLKA 1A                          Z12820
SP HISTOGRAM
XYTOP= 4312.00 XYBOT= 8899.00 HOLGATE=NO   DATE=08/27/87
SYMBOL=X CONDITIONS=(XPLTRES.EQ.1,SAW.EQ.3)
   180 SYMBOL 'X' POINTS AVAILABLE.
SYMBOL=O CONDITIONS=(XPLTRES.NE.1,SAW.EQ.3)
  1350 SYMBOL 'O' POINTS AVAILABLE.
AVERAGE SPCORR=    -28.3384  XMODE=       0.0     YMODE=     15.7036
JOB NAME=TOOLKAAA,  PLOT TAPE VOL. SER.=TD8749
```



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 ESSO                          TOOLKA 1A                          Z12820
BULK DENSITY HISTOGRAM
XYTOP= 4312.00 XYBOT= 8899.00 HOLGATE=NO   DATE=08/27/87
SYMBOL=X CONDITIONS=(XPLTRES.EQ.1,SAW.EQ.3)
   180 SYMBOL 'X' POINTS AVAILABLE.
SYMBOL=O CONDITIONS=(XPLTRES.NE.1,SAW.EQ.3)
  1350 SYMBOL 'O' POINTS AVAILABLE.
AVERAGE DNDNOC=      2.3771  XMODE=       0.0     YMODE=      8.8889
JOB NAME=TOOLKAAA,  PLOT TAPE VOL. SER.=TD8749
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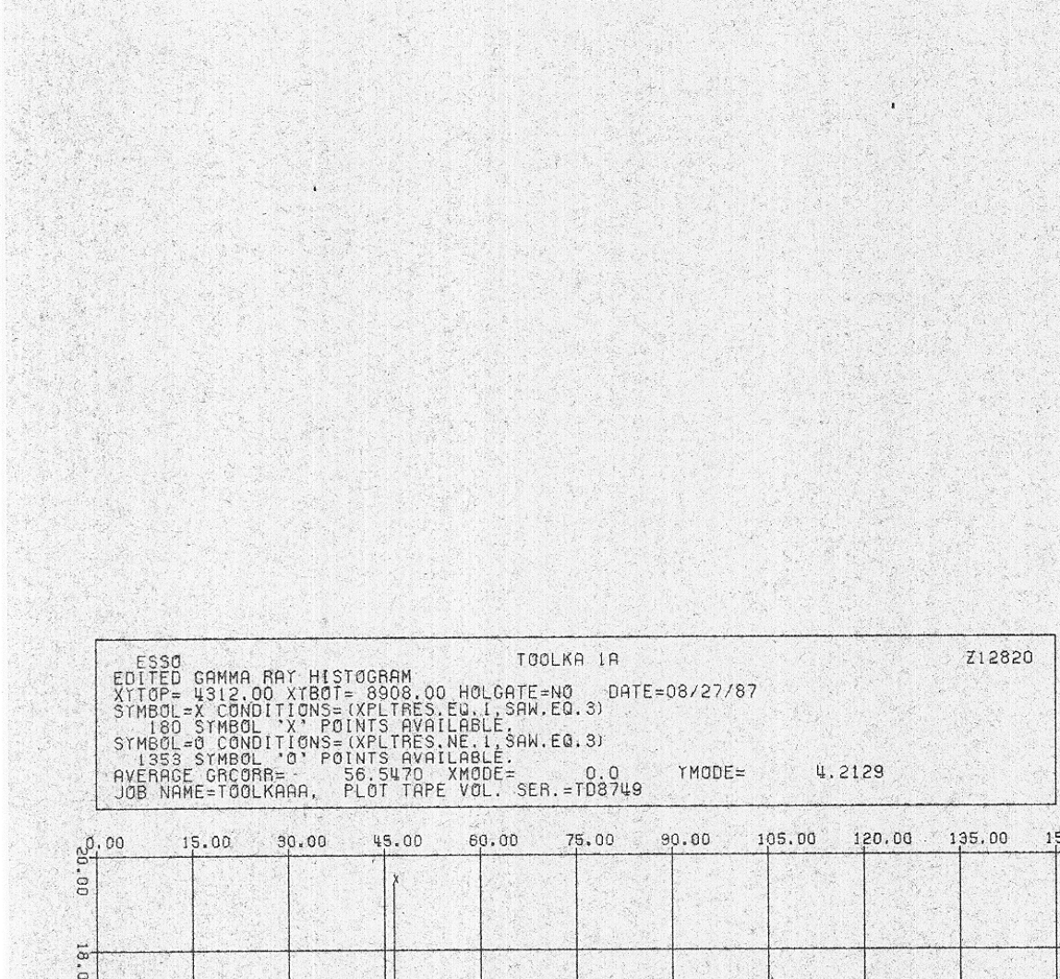

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 ESSO                          TOOLKA 1A                          Z12820
NEUTRON POROSITY - LIMESTONE MATRIX - HISTOGRAM
XYTOP= 4312.00 XYBOT= 8893.00 HOLGATE=NO   DATE=08/27/87
SYMBOL=X CONDITIONS=(XPLTRES.EQ.1,SAW.EQ.3)
   179 SYMBOL 'X' POINTS AVAILABLE.
SYMBOL=O CONDITIONS=(XPLTRES.NE.1,SAW.EQ.3)
  1307 SYMBOL 'O' POINTS AVAILABLE.
AVERAGE NCNPLC=     29.9434  XMODE=       0.0     YMODE=      5.3557
JOB NAME=TOOLKAAA,  PLOT TAPE VOL. SER.=TD8749
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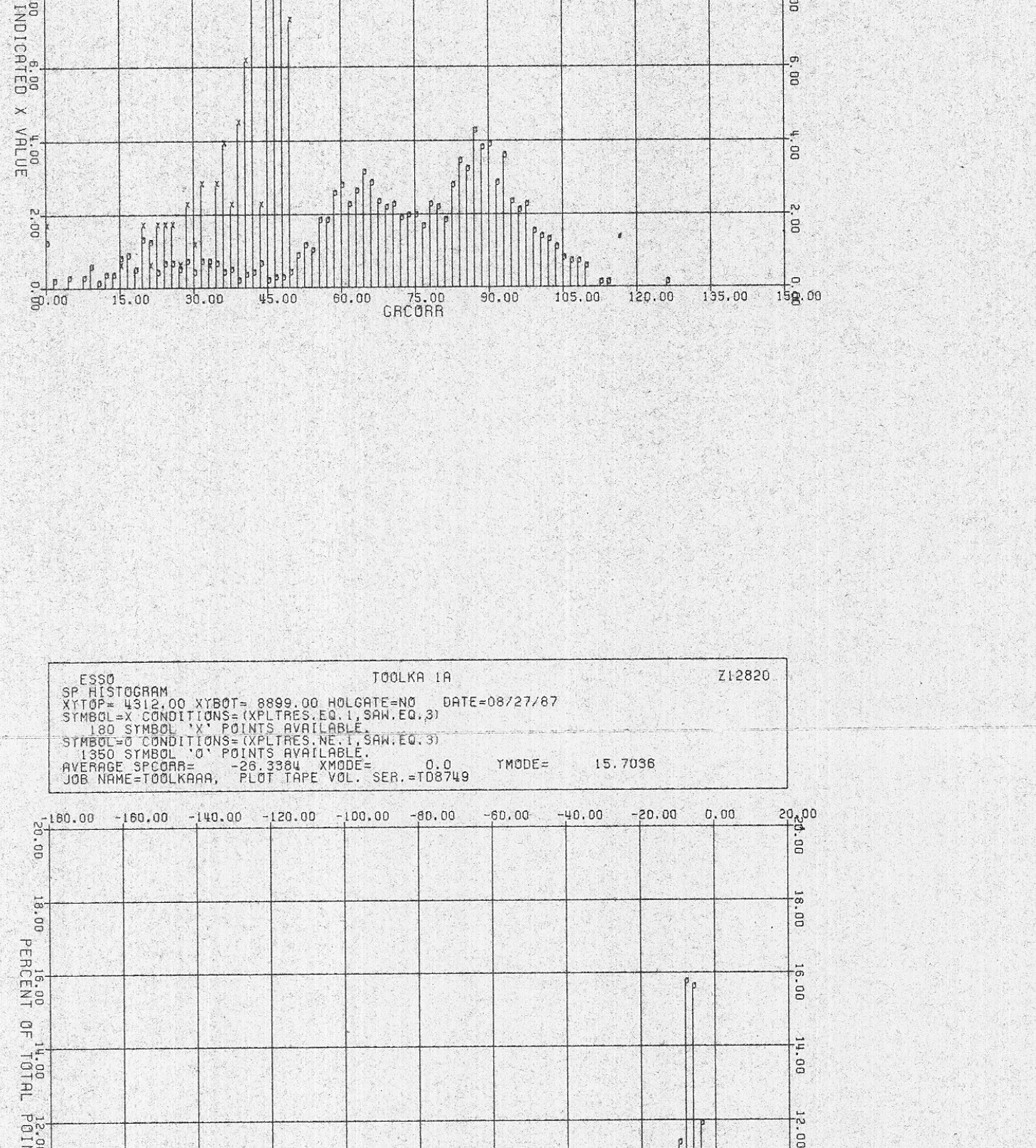

5 cm

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 ESSO                          TOOLKA 1A                          Z12820
NEUTRON POROSITY - SANDSTONE MATRIX - HISTOGRAM
XYTOP= 4312.00 XYBOT= 8908.00 HOLGATE=NO   DATE=08/27/87
SYMBOL=X CONDITIONS=(XPLTRES.EQ.1,SAW.EQ.3)
   179 SYMBOL 'X' POINTS AVAILABLE.
SYMBOL=O CONDITIONS=(XPLTRES.NE.1,SAW.EQ.3)
  1302 SYMBOL 'O' POINTS AVAILABLE.
AVERAGE NCNPSC=     34.0334  XMODE=       0.0     YMODE=      5.5299
JOB NAME=TOOLKAAA,  PLOT TAPE VOL. SER.=TD8749
```