Schlumberger

5" NATURAL GAMMA RAY SPECTROMETRY

CSU

COMPANY: EXXON COMPANY, U.S.A.

WELL: "G.P.E. FEDERAL COM." #1

FIELD: NEHALEM SOUTH
COUNTY: COLUMBIA
STATE: OREGON
NATION: U.S.A.
LOCATION: 816'FSL & 1960'FEL

SEC: 3 TWP: 4N RGE: 3W

OTHER SERVICES-
DLL-MSFL
VSP
SHDT
DIL-BHC
CST
LDT-CNL

PERMANENT DATUM: GL
ELEV. OF PERM. DATUM: 1730.0 F
LOG MEASURED FROM: KB
26.0 F ABOVE PERM. DATUM
DRLG. MEASURED FROM: KB

ELEVATIONS-
KB: 1756.0 F
DF: 1755.0 F
GL: 1730.0 F

PROGRAM
TAPE NO: 26.2
SERVICE
ORDER NO: 432108

DATE: 4 NOV 85
RUN NO: 1

RECEIVED
JAN 15 1986
DOGAMI
Portland

DEPTH-DRILLER: 11287.0 F
DEPTH-LOGGER: 11270.0 F
BTM. LOG INTERVAL: 11268.0 F
TOP LOG INTERVAL: 8500.0 F

CASING-DRILLER: 1652 F
CASING-LOGGER: 1652 F
CASING: 13 3/8"

BIT SIZE:	12 1/4"	9 1/2"
DEPTH:	8521 F	11287 F

TYPE FLUID IN HOLE: KCL POLYMER
DENSITY: 11.1 LB/G
VISCOSITY: 78.0 S
PH: 8.3
FLUID LOSS: 5.6 C3
SOURCE OF SAMPLE: FLOWLINE
RM: .183 OHMM AT 53.0 DEGF
RMF: .094 OHMM AT 60.0 DEGF
RMC: .214 OHMM AT 60.0 DEGF
SOURCE RMF/RMC: MEASURED/MEASURED
RM AT BHT: .059 OHMM AT 178. DEGF
RMF AT BHT: .034 OHMM AT 178. DEGF
RMC AT BHT: .077 OHMM AT 178. DEGF

TIME CIRC. STOPPED: 21:30 11-1
TIME LOGGER ON BTM.: 15:00 11-4

MAX. REC. TEMP: 178.0 DEGF

LOGGING UNIT NO: 8057
LOGGING UNIT LOC: SACRAMENTO
RECORDED BY: MAYER/PILCH
WITNESSED BY: SLOVER

REMARKS:

48,000 PPM CHLORIDES.
BOW SPRING USED ON CNL FOR EXCENTRALIZATION.
WASHOUTS AND MUD WEIGHT CAUSED PEF CURVE TO READ HIGH.

EQUIPMENT NUMBERS-

DRS C 4775	NSC D 1955	CNC HA 1263	SGC SA 561
NGC 1749	NGD 112	CIM 270	

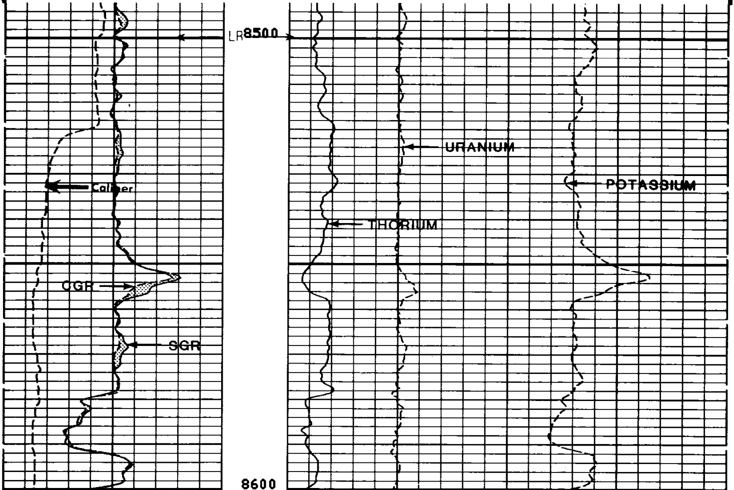
ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS AND WE CANNOT, AND DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATIONS, AND WE SHALL NOT, EXCEPT IN THE CASE OF GROSS OR WILLFUL NEGLIGENCE ON OUR PART, BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COSTS, DAMAGES OR EXPENSES INCURRED OR SUSTAINED BY ANYONE RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR OFFICERS, AGENTS OR EMPLOYEES. THESE INTERPRETATIONS ARE ALSO SUBJECT TO OUR GENERAL TERMS AND CONDITIONS AS SET OUT IN OUR CURRENT PRICE SCHEDULE.

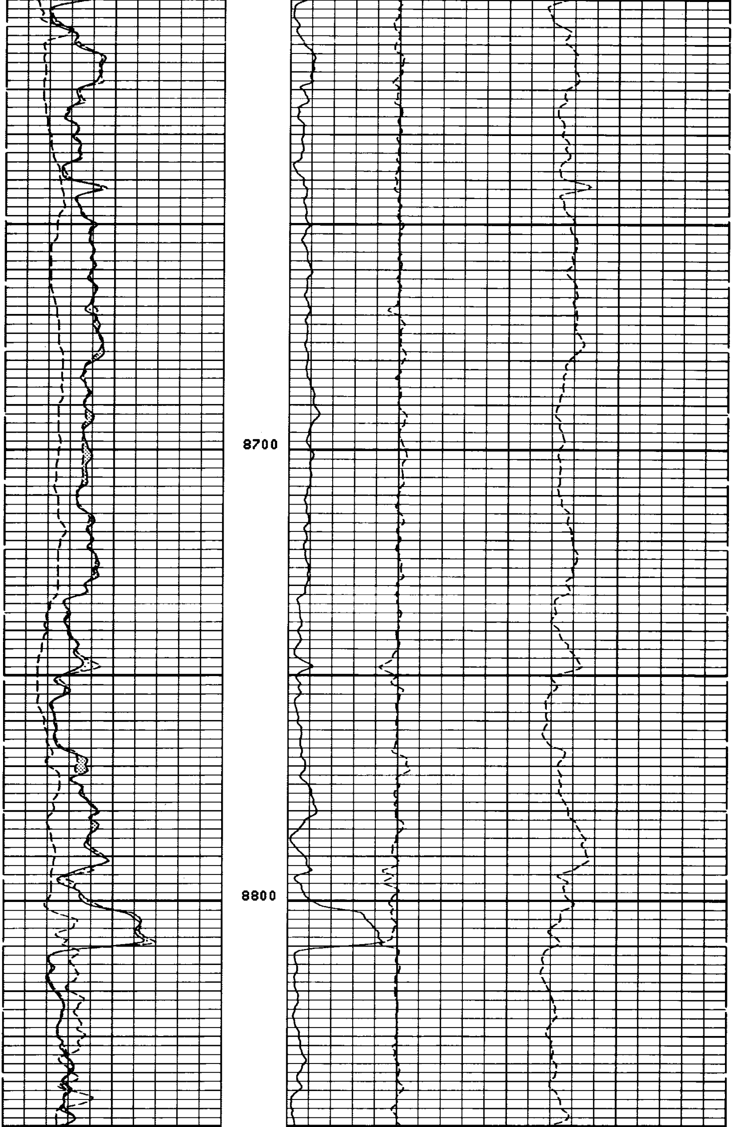
FILE 4 04-NOV-85 23:39
DATA ACQUIRED 04-NOV-85 14:55

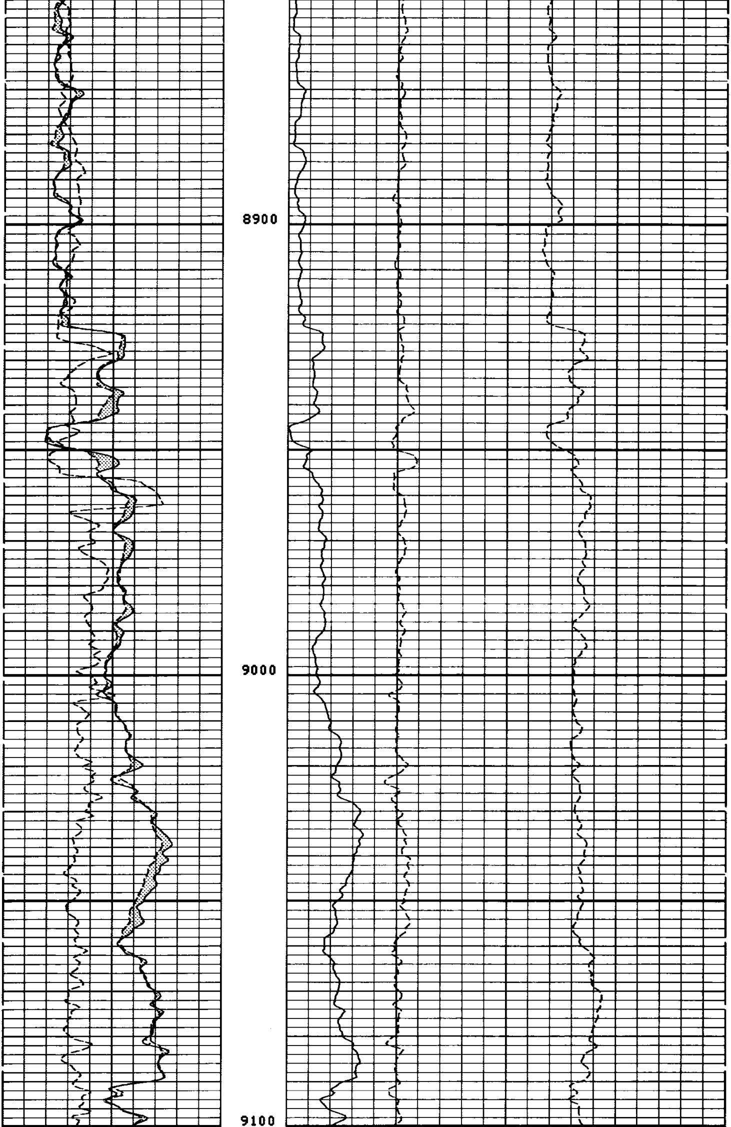
CGR (GAPI)
0.0 150.00
SGR (GAPI)
0.0 150.00
CALI(IN)
8.0000 18.000

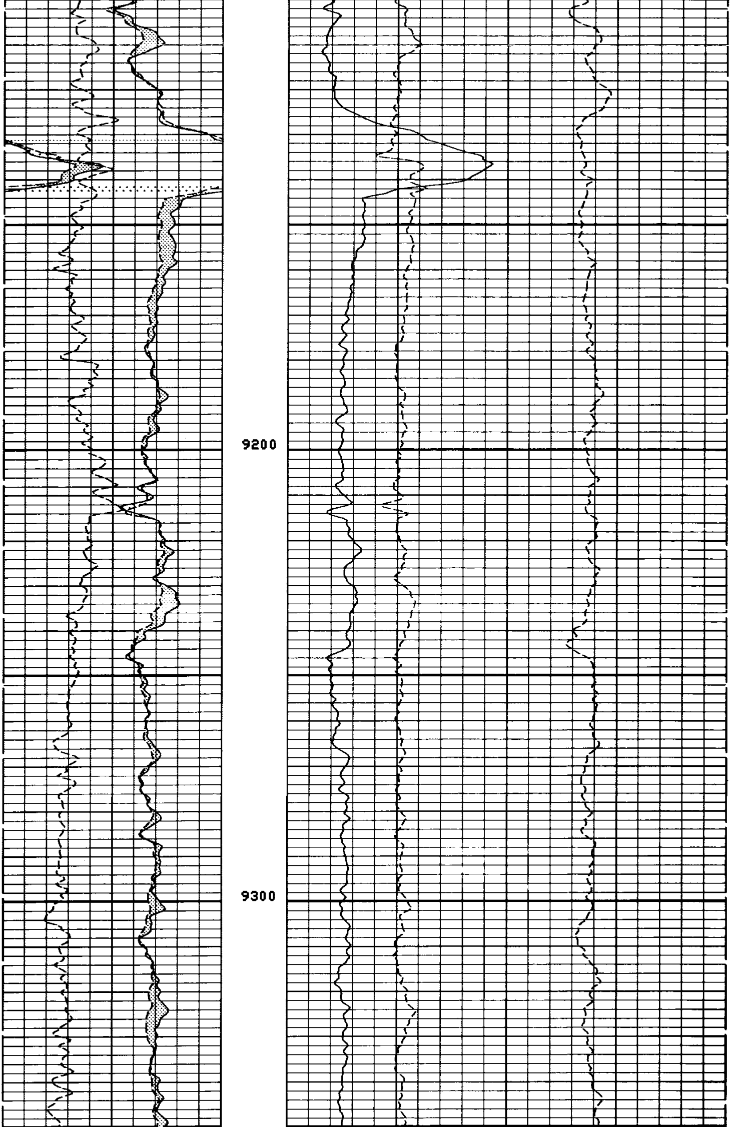
THOR(PPM)
0.0 40.000
POTA
0.0 .10000
URAN(PPM)
-10.00 30.000

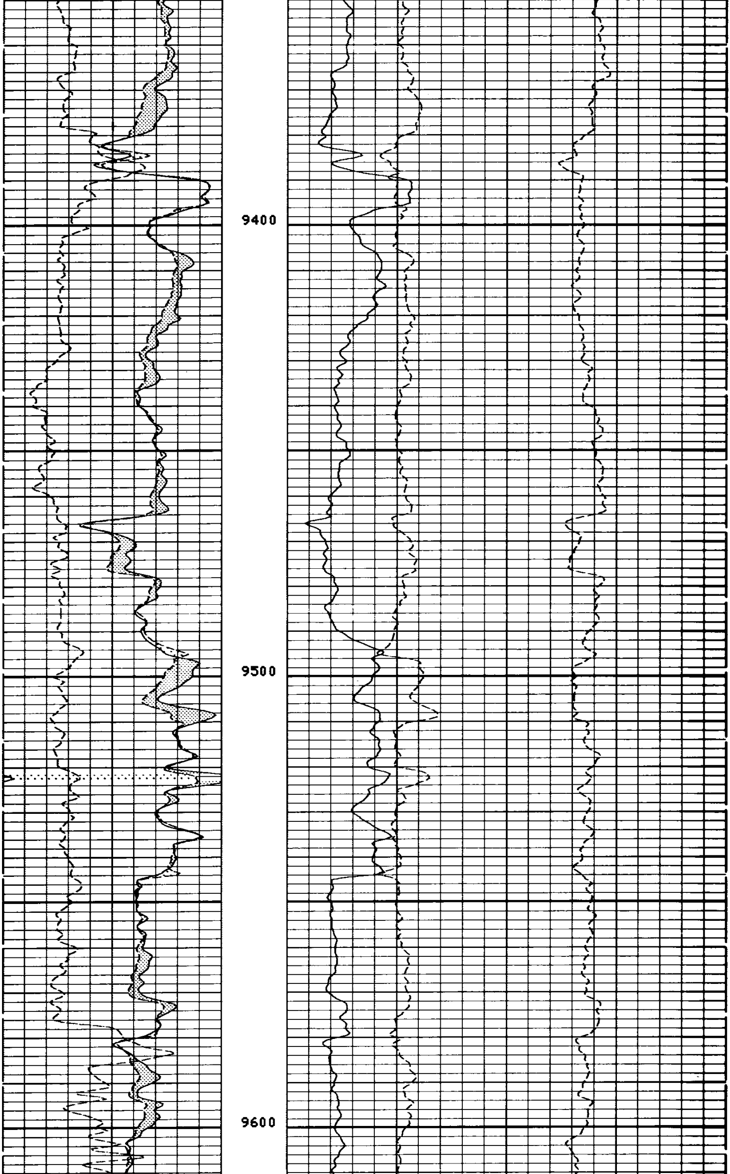
FILE 4 04-NOV-85 21:45

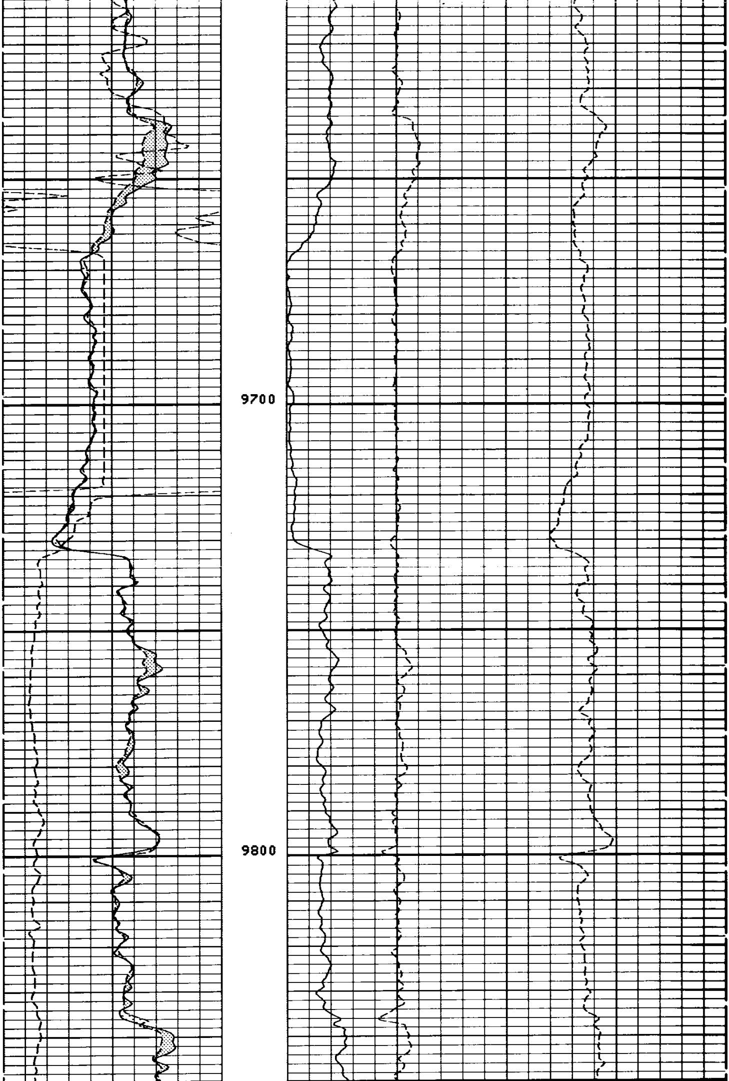


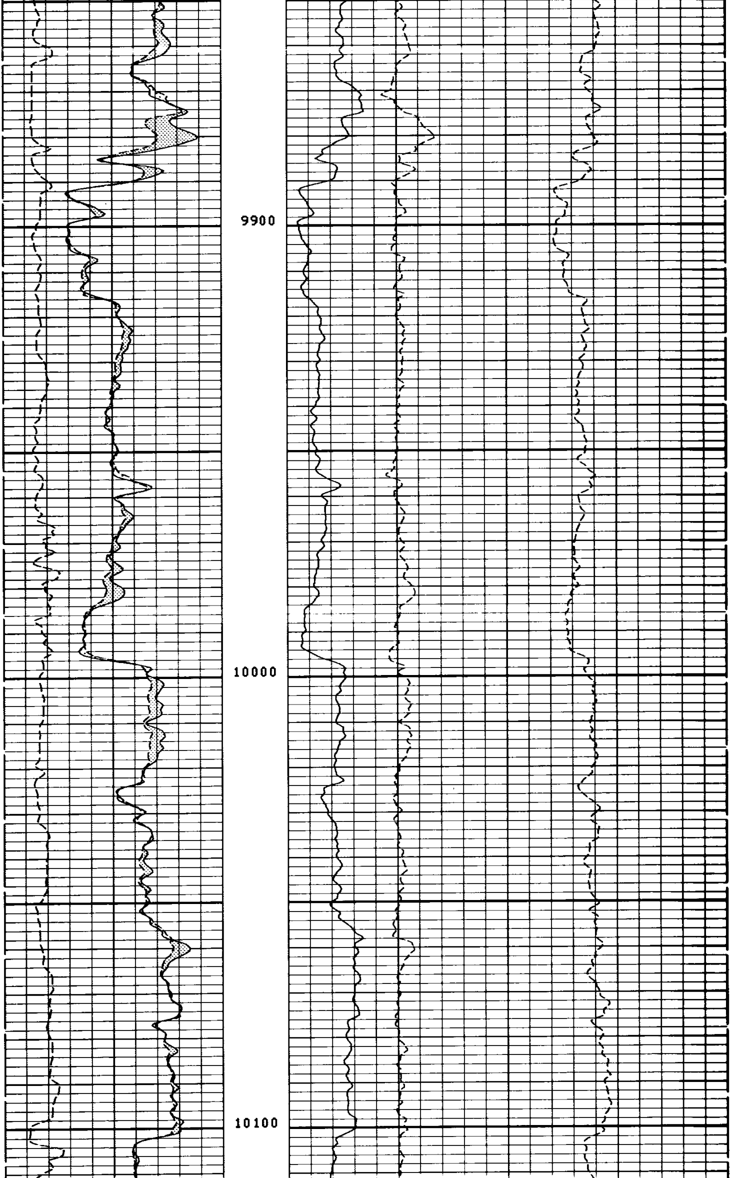


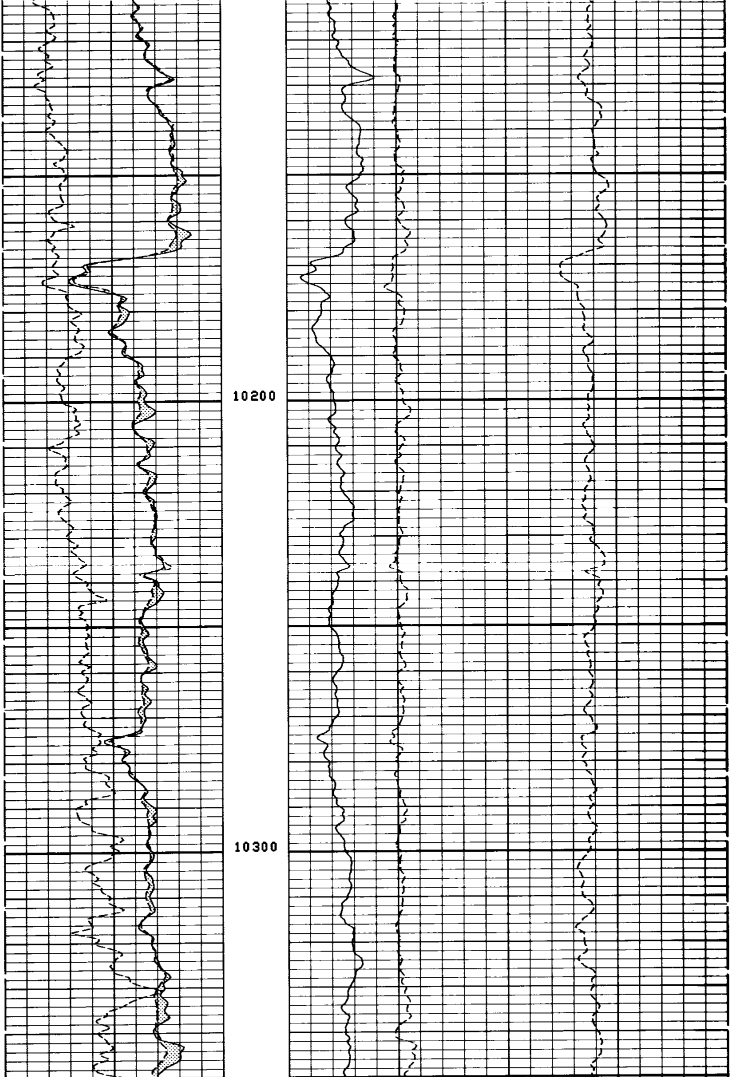


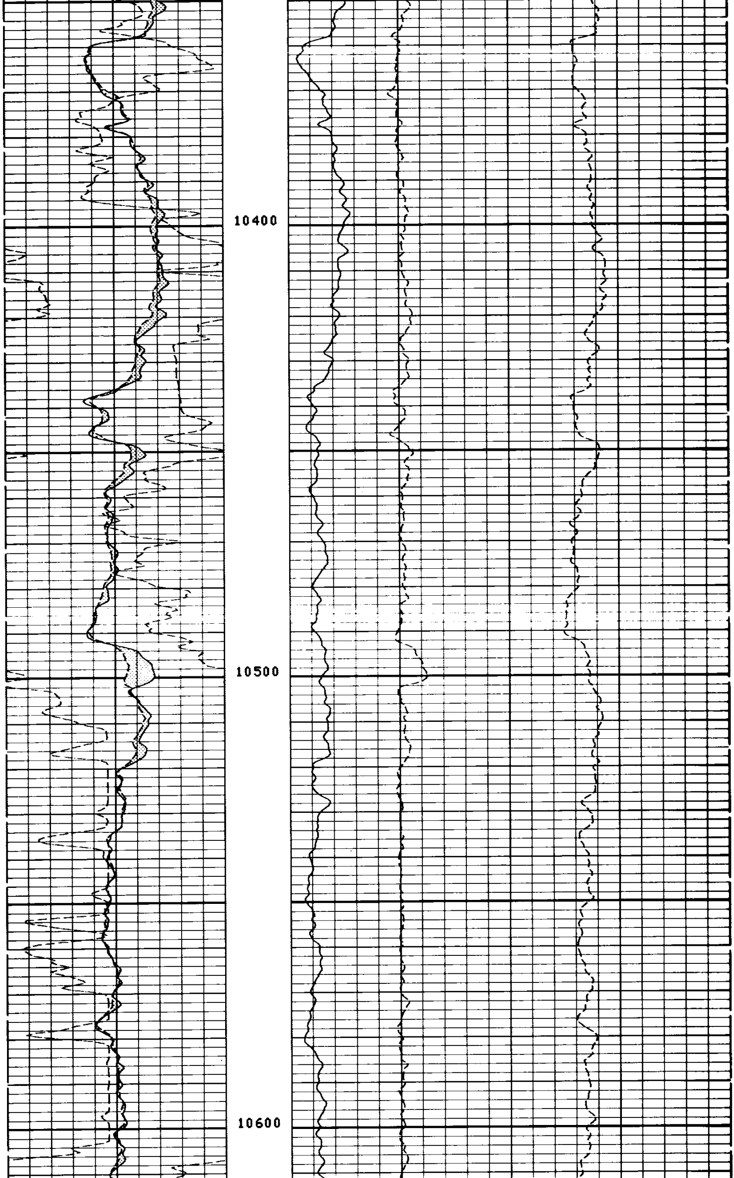


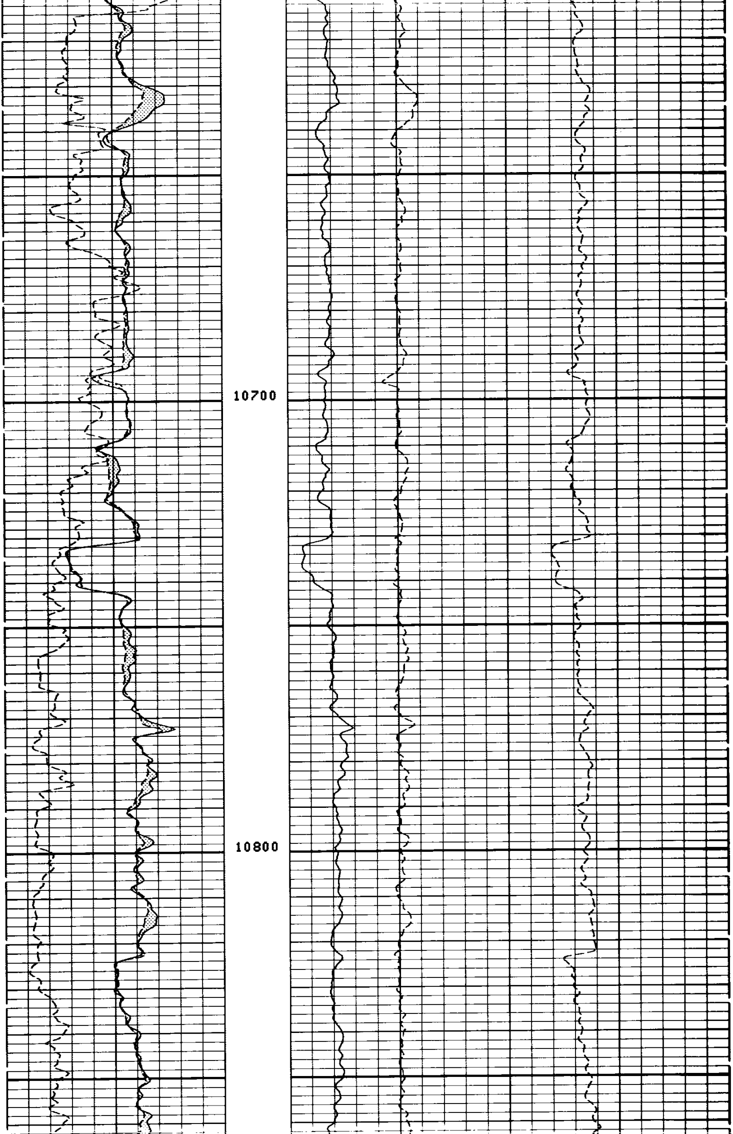


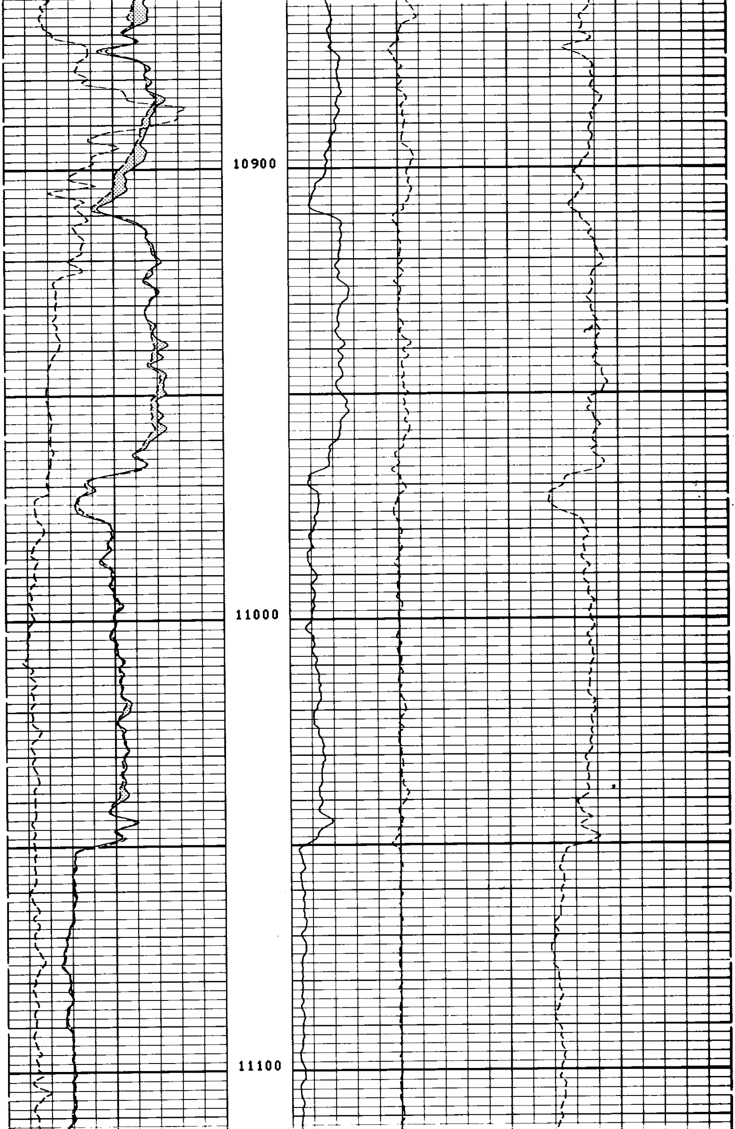


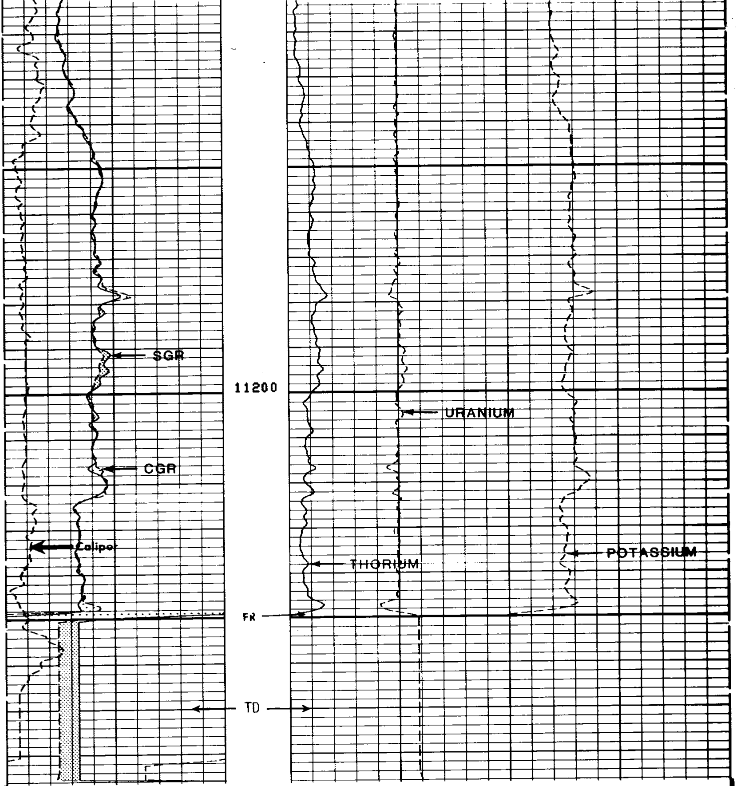












FILE 4 04-NOV-85 14:47

CGR (GAPI)
0.0 150.00
SGR (GAPI)
0.0 150.00
CALI(IN)
8.0000 18.000

THOR(PPM)
0.0 40.000

POTA
0.0 .10000

URAN(PPM)
-10.00 30.000

SENSOR MEASURE POINT TO TOOL ZERO

W4NG	35.0	FEET	W5NG	35.0	FEET
W2NG	35.0	FEET	W3NG	35.0	FEET
SNGT	35.0	FEET	W1NG	35.0	FEET
TPUW	35.0	FEET	NGPE	35.0	FEET
PPUW	35.0	FEET	TPLW	35.0	FEET
APUW	35.0	FEET	PPLW	35.0	FEET
SCNL	23.2	FEET	APLW	35.0	FEET
FCNL	23.2	FEET	NCNL	23.2	FEET
SS1	2.0	FEET	SS2	2.0	FEET
LS	2.5	FEET	LITH	2.5	FEET
LL	2.5	FEET	LU	2.5	FEET
TENS	-.9	FEET	CALI	2.6	FEET
NRAT	23.2	FEET	SGR	35.0	FEET

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
BHT	176.000	DEGF	TD	11300.0	F
PSNR	2.20800		SHT	80.0000	DEGF
MATR	LIME		HC	CALI	
MDEN	2.71000	G/C3	FD	1.00000	G/C3
LPCS	TWIN		WMUD	8.00000	LB/G
BHS	OPEN		DHC	CALI	
BS	9.50000	IN			

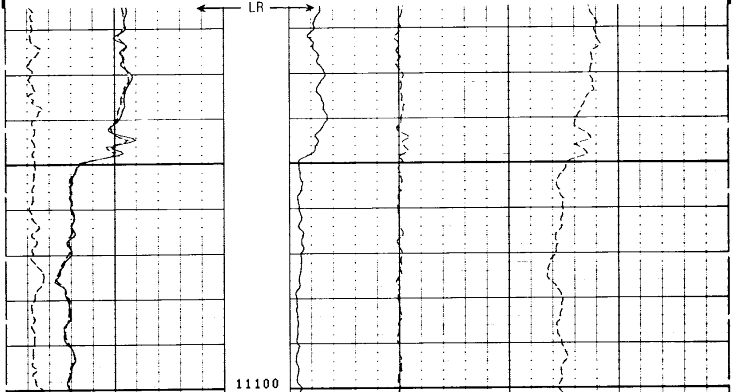
CGR (GAPI)
0.0 150.00
SGR (GAPI)
0.0 150.00
CALI(IN)
8.0000 18.000

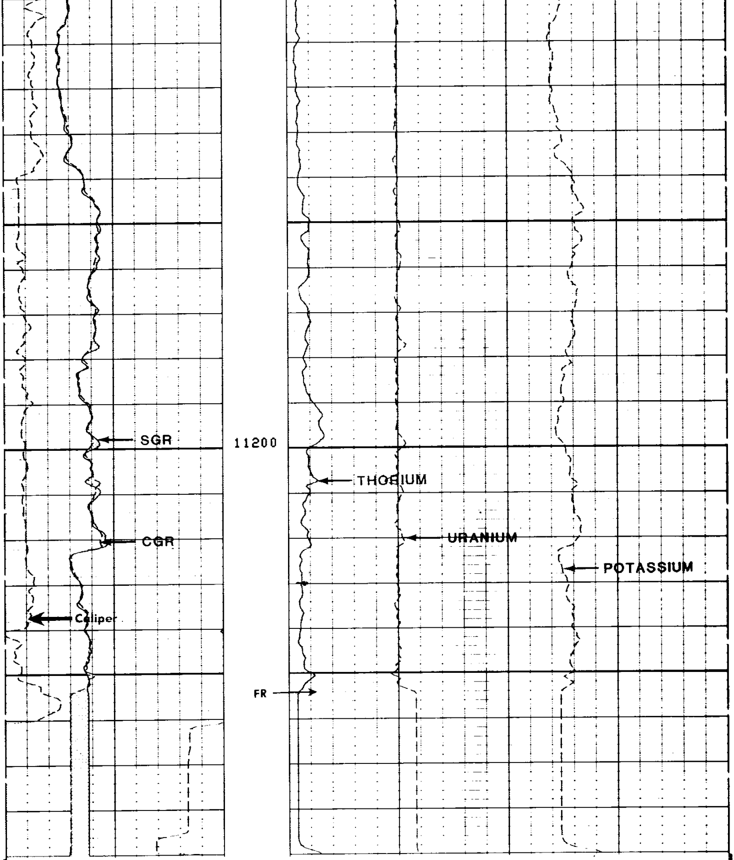
THOR(PPM)
0.0 40.000
URAN(PPM)
-10.00 30.000

POTA
0.0 .10000

REPEAT SECTION

FILE 3 04-NOV-85 14:28





FILE 3 04-NOV-85 14:08

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0.0 150.00
SGR (GAPI)
0.0 150.00
CALI(IN)
8.0000 18.000

THOR(PPM)
0.0 40.000
URAN(PPM)
-10.00 30.000

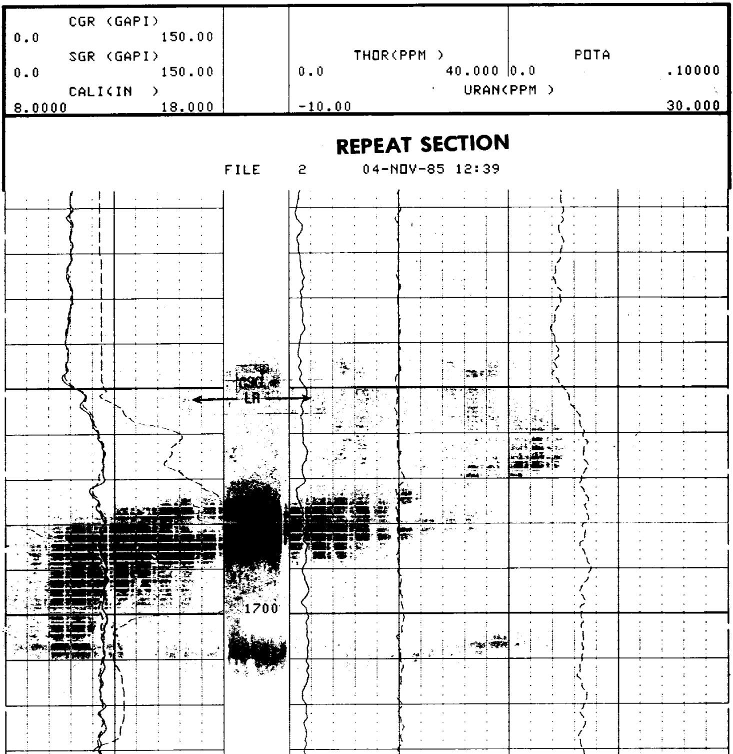
POTA
0.0 .10000

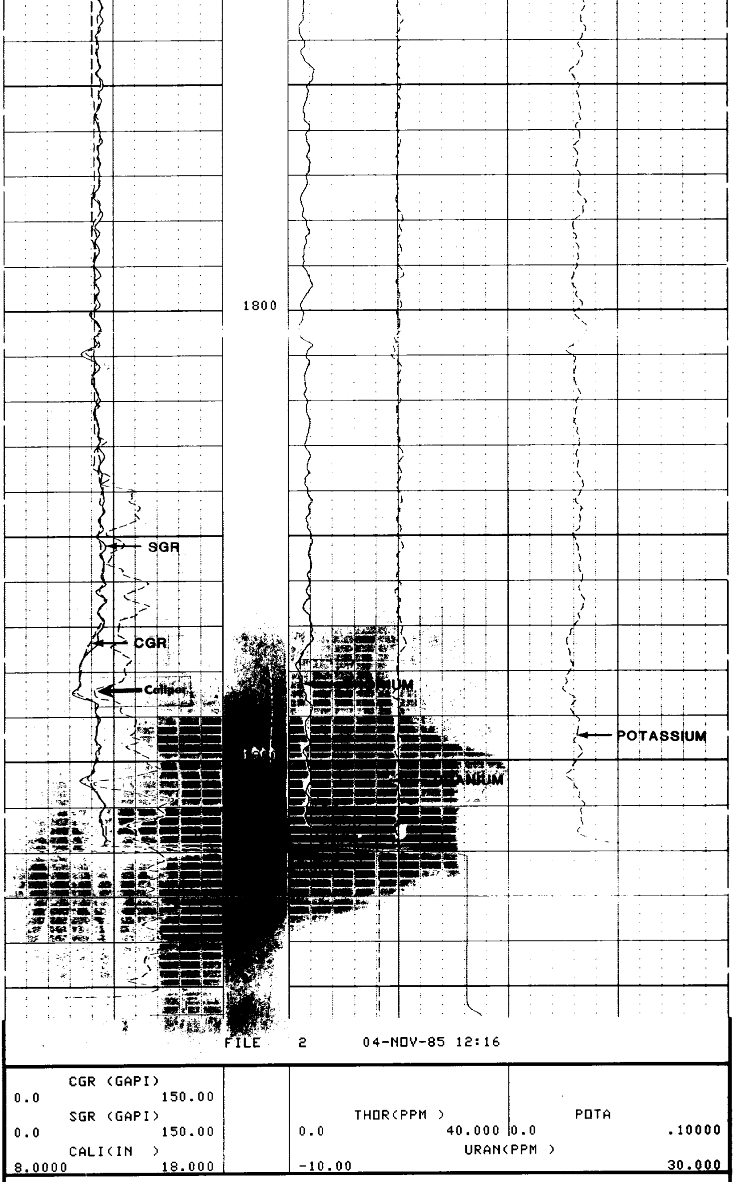
SENSOR MEASURE POINT TO TOOL ZERO

W4NG	35.0	FEET	W5NG	35.0	FEET
W2NG	35.0	FEET	W3NG	35.0	FEET
SNGT	35.0	FEET	W1NG	35.0	FEET
TPUW	35.0	FEET	NGPE	35.0	FEET
PPUW	35.0	FEET	TPLW	35.0	FEET
APUW	35.0	FEET	PPLW	35.0	FEET
SCNL	23.2	FEET	APLW	35.0	FEET
FCNL	23.2	FEET	NCNL	23.2	FEET
SS1	2.0	FEET	SS2	2.0	FEET
LS	2.5	FEET	LITH	2.5	FEET
LL	2.5	FEET	LU	2.5	FEET
TENS	-.9	FEET	CALI	2.6	FEET
NRAT	23.2	FEET	SGR	35.0	FEET

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
BHT	176.000	DEGF	TD	11300.0	F
PSNR	2.20800		SHT	80.0000	DEGF
MATR	LIME		HC	CALI	
MDEN	2.71000	G/C3	FD	1.00000	G/C3
LPCS	TWIN		WMUD	8.00000	LB/G
BHS	OPEN		DHC	CALI	
BS	9.50000	IN			





SENSOR MEASURE POINT TO TOOL ZERO

W4NG	35.0	FEET	W5NG	35.0	FEET
W2NG	35.0	FEET	W3NG	35.0	FEET
SNGT	35.0	FEET	W1NG	35.0	FEET
TPUW	35.0	FEET	NGPE	35.0	FEET
PPUW	35.0	FEET	TPLW	35.0	FEET
APUW	35.0	FEET	PPLW	35.0	FEET
SCNL	23.2	FEET	APLW	35.0	FEET
FCNL	23.2	FEET	NCNL	23.2	FEET
SS1	2.0	FEET	SS2	2.0	FEET
LS	2.5	FEET	LITH	2.5	FEET
LL	2.5	FEET	LU	2.5	FEET
TENS	-.9	FEET	CALI	2.6	FEET
NRAT	23.2	FEET	SGR	35.0	FEET

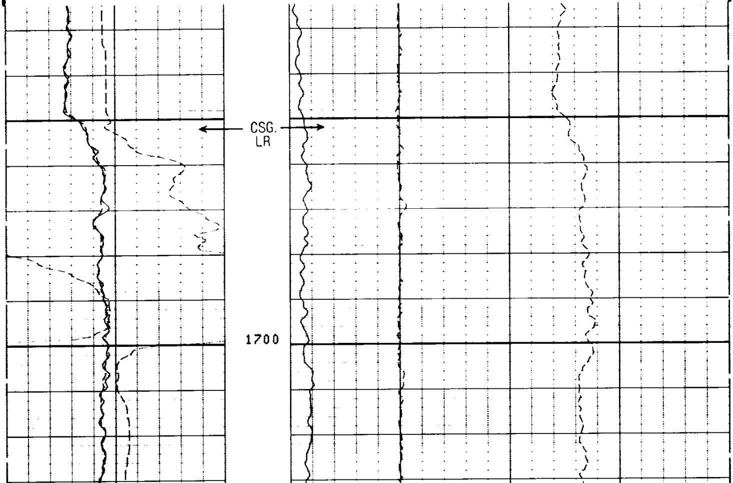
PARAMETERS

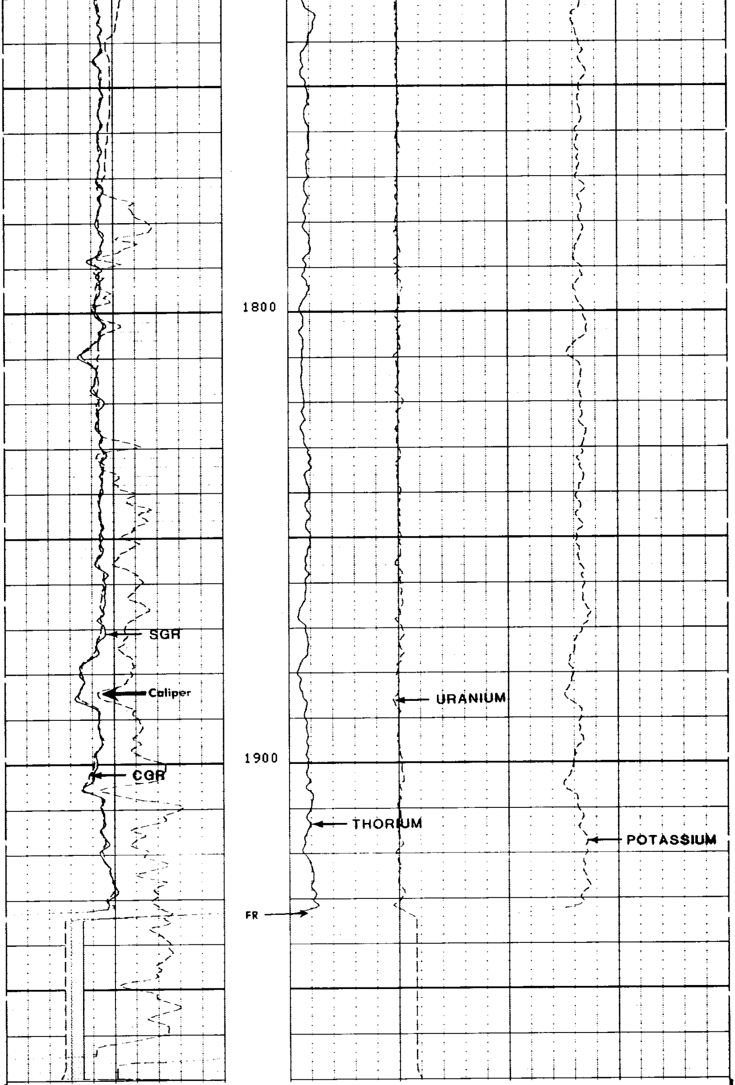
NAME	VALUE	UNIT	NAME	VALUE	UNIT
BHT	176.000	DEGF	TD	11300.0	F
PSNR	2.20800		SHT	80.0000	DEGF
MATR	LIME		HC	CALI	
MDEN	2.71000	G/C3	FD	1.00000	G/C3
LPCS	TWIN		WMUD	8.00000	LB/G
BHS	OPEN		DHC	CALI	
BS	9.50000	IN			

Curve	Left	Right
CGR (GAPI)	0.0	150.00
SGR (GAPI)	0.0	150.00
CALI(IN)	8.0000	18.000
THOR(PPM)	0.0	40.000
POTA	0.0	.10000
URAN(PPM)	-10.00	30.000

REPEAT SECTION

FILE 1 04-NOV-85 11:52





FILE 1 04-NOV-85 11:32

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      CGR (GAPI)
0.0                150.00
      SGR (GAPI)                          THOR(PPM )                     POTA
0.0                150.00       0.0                 40.000 0.0                      .10000
      CALI(IN   )                                          URAN(PPM )
8.0000             18.000       -10.00                                              30.000
```

```
                      SENSOR MEASURE POINT TO TOOL ZERO

          W4NG 35.0  FEET                         W5NG 35.0  FEET
          W2NG 35.0  FEET                         W3NG 35.0  FEET
          SNGT 35.0  FEET                         W1NG 35.0  FEET
          TPUW 35.0  FEET                         NGPE 35.0  FEET
          PPUW 35.0  FEET                         TPLW 35.0  FEET
          APUW 35.0  FEET                         PPLW 35.0  FEET
          SCNL 23.2  FEET                         APLW 35.0  FEET
          FCNL 23.2  FEET                         NCNL 23.2  FEET
          SS1   2.0  FEET                         SS2   2.0  FEET
          LS    2.5  FEET                         LITH  2.5  FEET
          LL    2.5  FEET                         LU    2.5  FEET
          TENS  -.9  FEET                         CALI  2.6  FEET
          NRAT 23.2  FEET                         SGR  35.0  FEET
```

```
                               PARAMETERS

          NAME  VALUE     UNIT                     NAME  VALUE     UNIT

          BHT  176.000    DEGF                     TD    11300.0   F
          PSNR 2.20800                             SHT   80.0000   DEGF
          MATR LIME                                HC    CALI
          MDEN 2.71000    G/C3                     FD    1.00000   G/C3
          LPCS TWIN                                WMUD  8.00000   LB/G
          BHS  OPEN                                DHC   CALI
          BS   9.50000    IN
```

```
                    SHOP SUMMARY


   PERFORMED:       85/11/01
   PROGRAM FILE: NGSHOP (VERSION    26.2    83/11/17)


 NGTC                 DETECTOR CALIBRATION SUMMARY

              MEASURED
           BKGD     JIG          CALIBRATED           UNITS
   SGR      36      196             160               GAPI
              SHOP        MEASURED
           BKG       JIG        UNITS
  W1NG     90.6     473.7        CPS
  W2NG     33.3     202.3        CPS
  W3NG     10.5      34.9        CPS
  W4NG      2.0      15.8        CPS
  W5NG      2.1      24.5        CPS

  PCSL    39        KEY OFFSET

                         FILE     0       01-NOV-85 12:09
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