GERAGHTY & MILLER, INC.

01-10

GAMMA RAY

P234CS3

COMPANY CORAL SPRINGS IMPROVEMENT DISTRICT
WELL WELL #1
FIELD
COUNTY BROWARD STATE FLA.
LOCATION:
SEC TWP RGE
OTHER SERVICES

COMPANY CORAL SPRINGS IMPROVEMENT DISTRICT
WELL WELL #1
LOCATION BROWARD FLA.

PERMANENT DATUM PAD LEVEL ELEV
LOG MEASURED FROM 0 ft. above perm. datum
DRILLING MEASURED FROM 1/24/84

ELEV KB
DF
GL
TOC

DATE				
RUN No.				
TYPE LOG				
DEPTH - DRILLER				
DEPTH - LOGGER				
BTM LOG INTER	3087			
TOP LOG INTER	0			
TYPE FLUID IN HOLE				
SALINITY ppm Cl				
DENSITY lb/gal				
LEVEL				
MAX REC TEMP - °F				
OPER RIG TIME				
RECORDED BY				
WITNESSED BY				

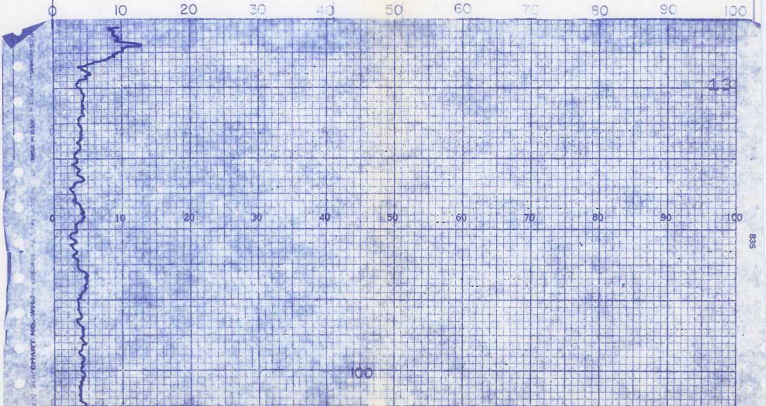
	BORE HOLE RECORD			CASING RECORD			
RUN No	BIT	FROM	TO	SIZE	WGT	FROM	TO

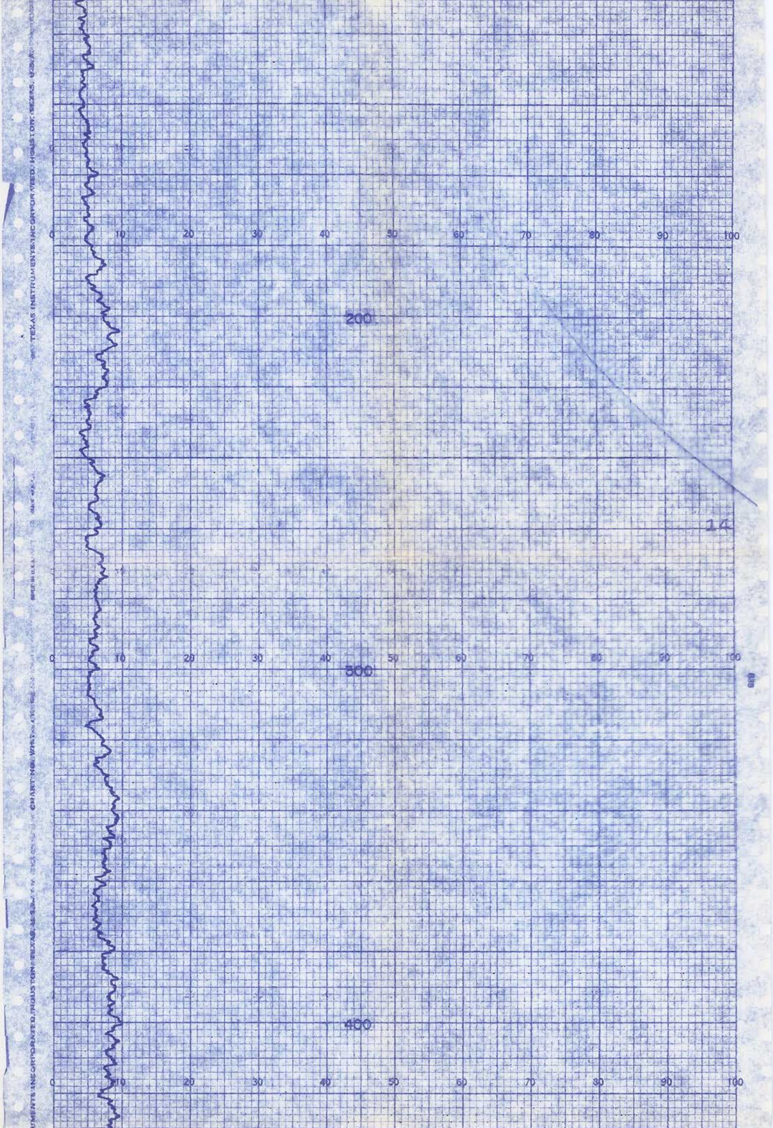
REMARKS:

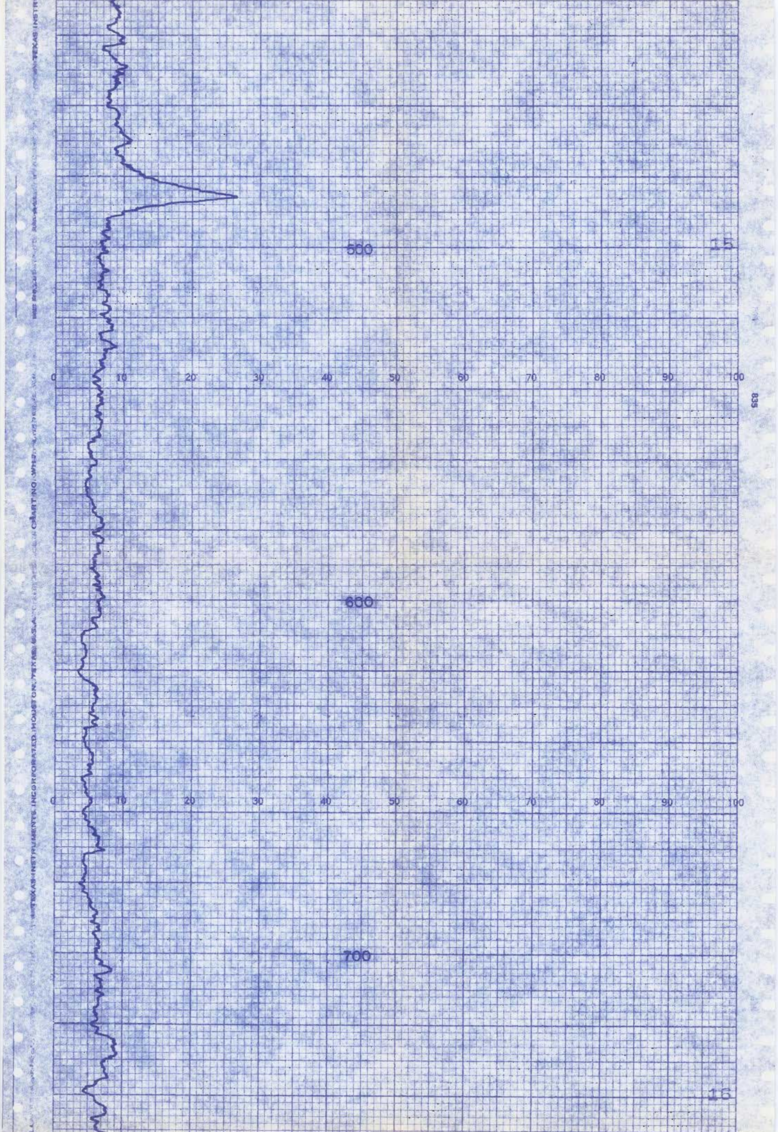
LOGGING DONE BY: SOUTHERN RESOURCES EXPLORATION

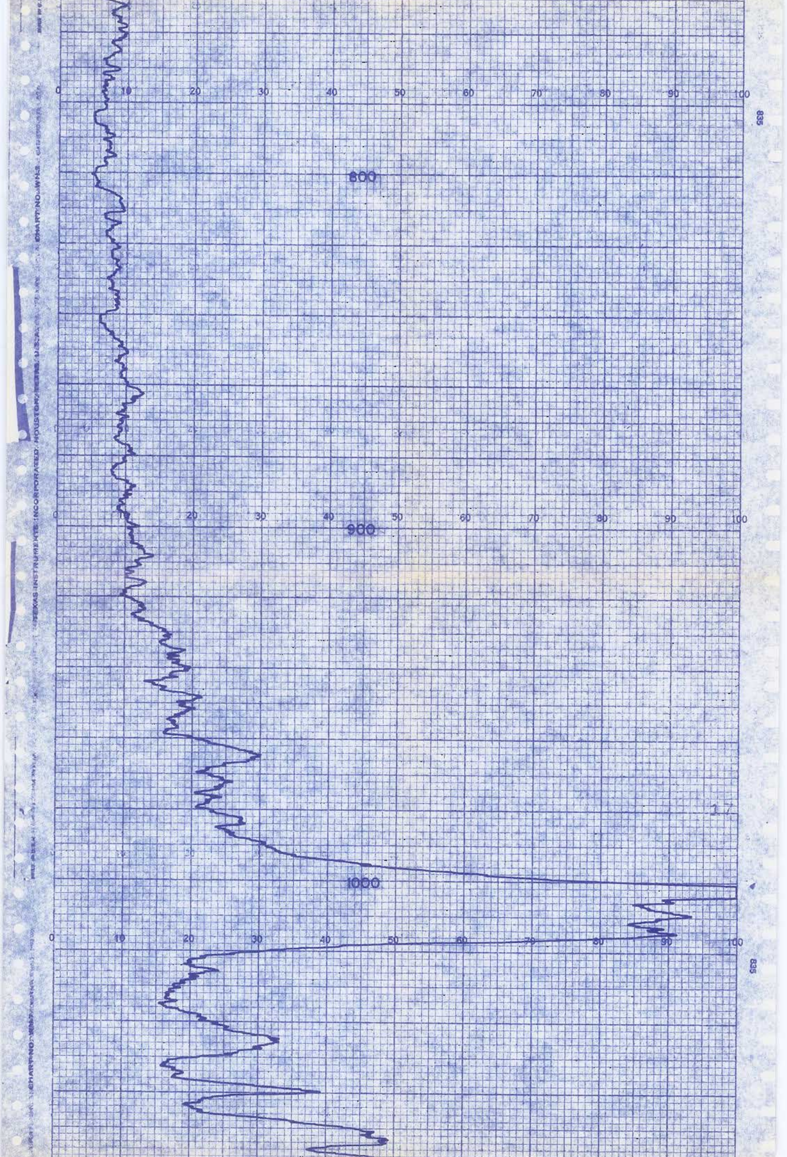
SCALE CHANGES			
Type Log	Depth	Scale Up Hole	Scale Down Hole

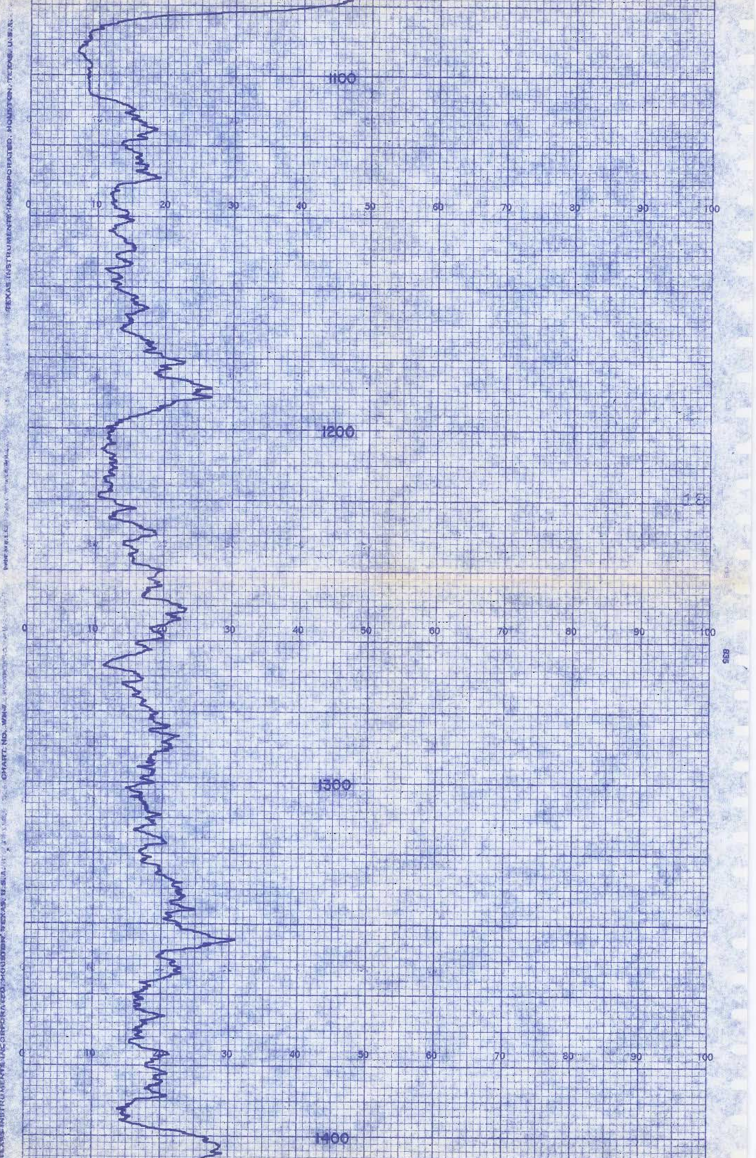
Gamma Ray
50 counts/inch
4 sec. T.C.
40 F.P.M.

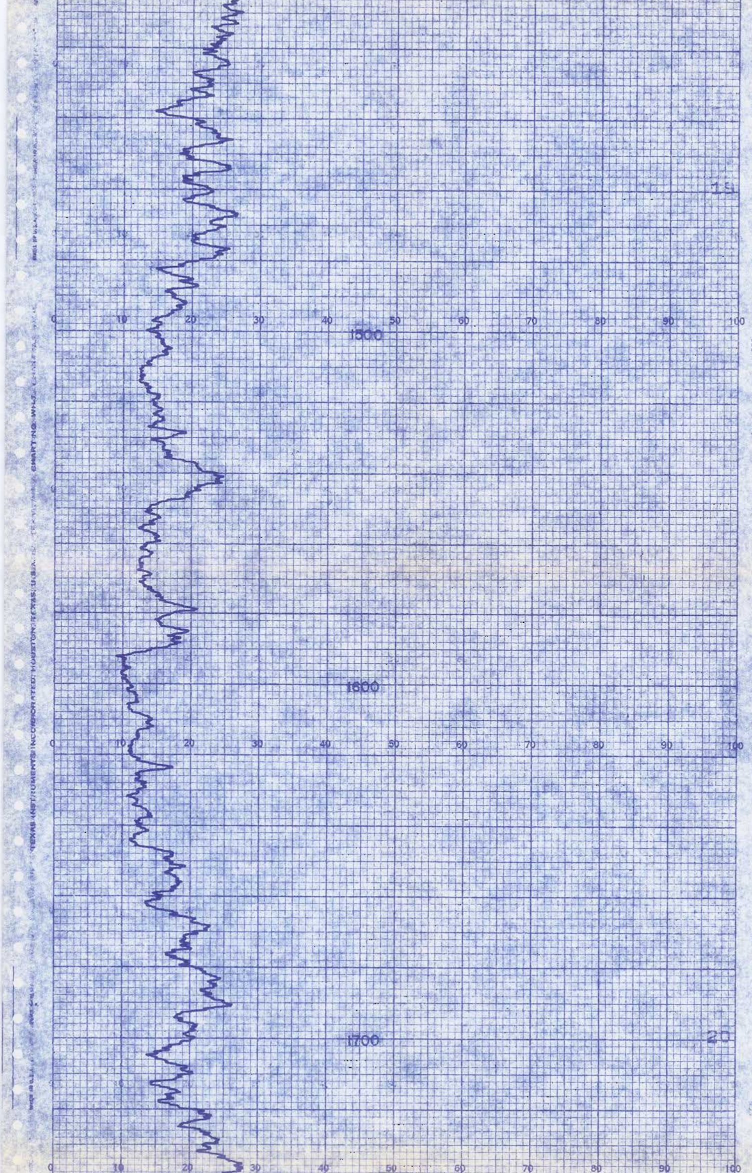


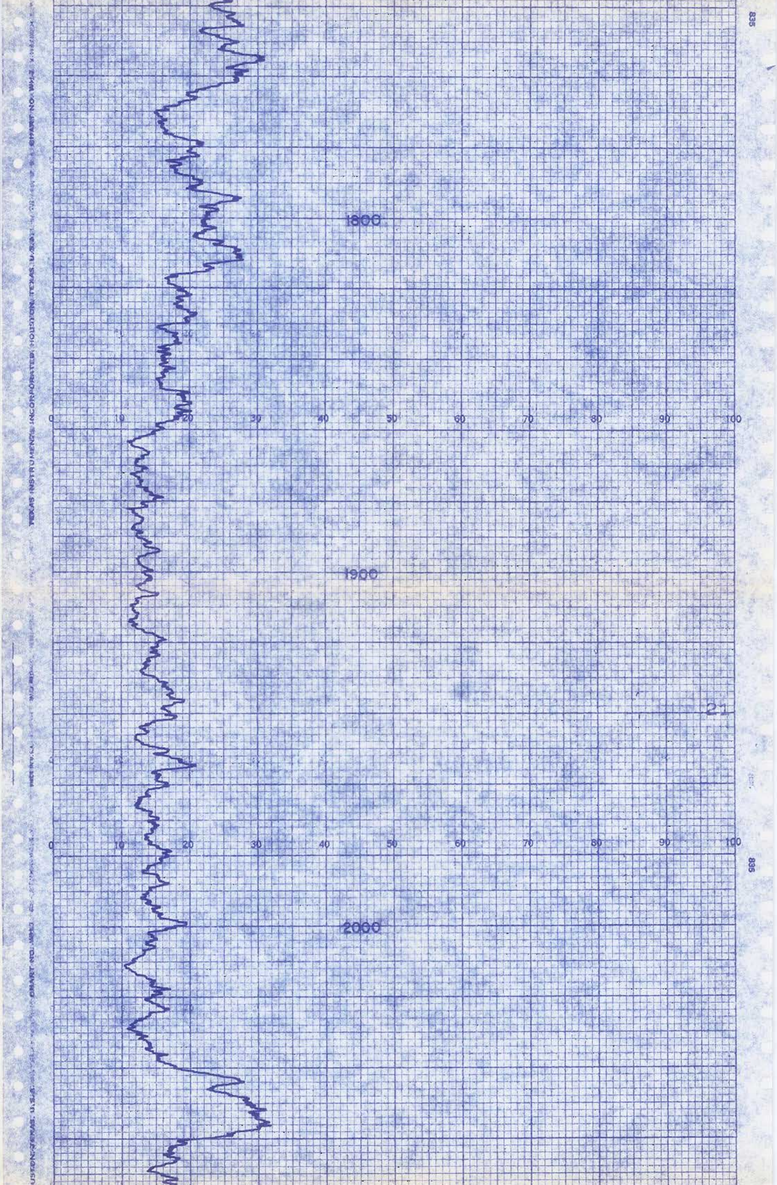


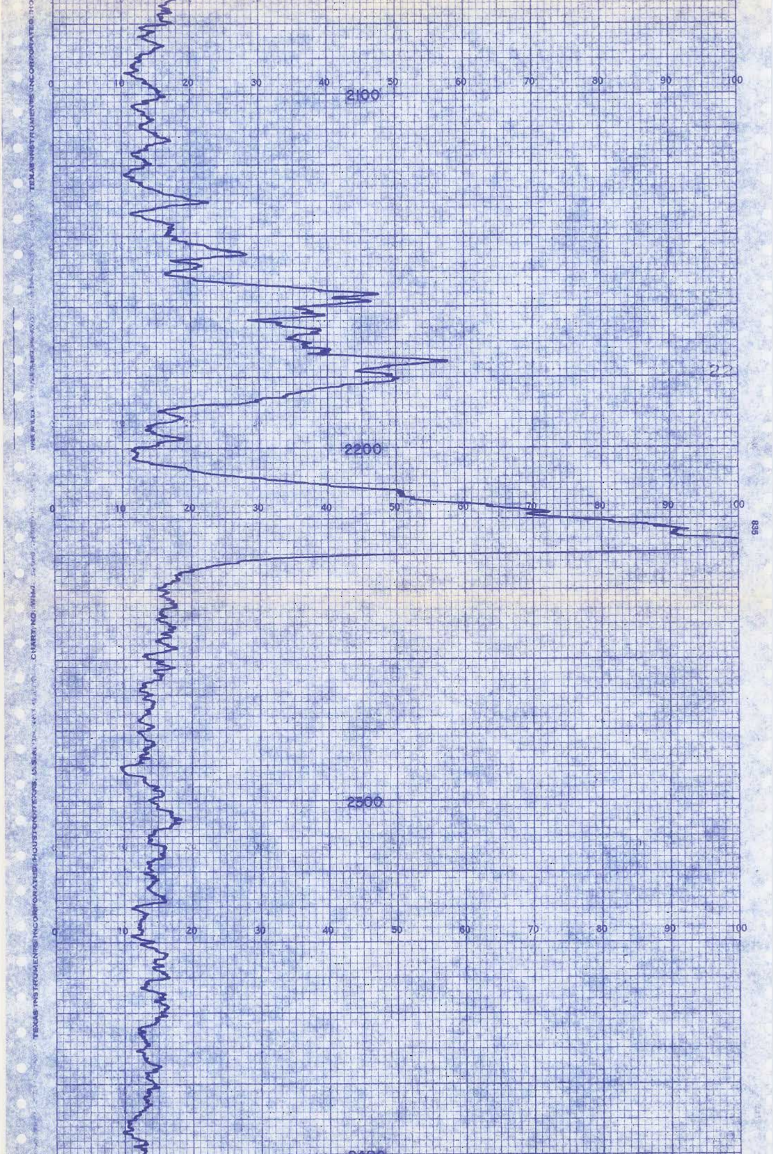


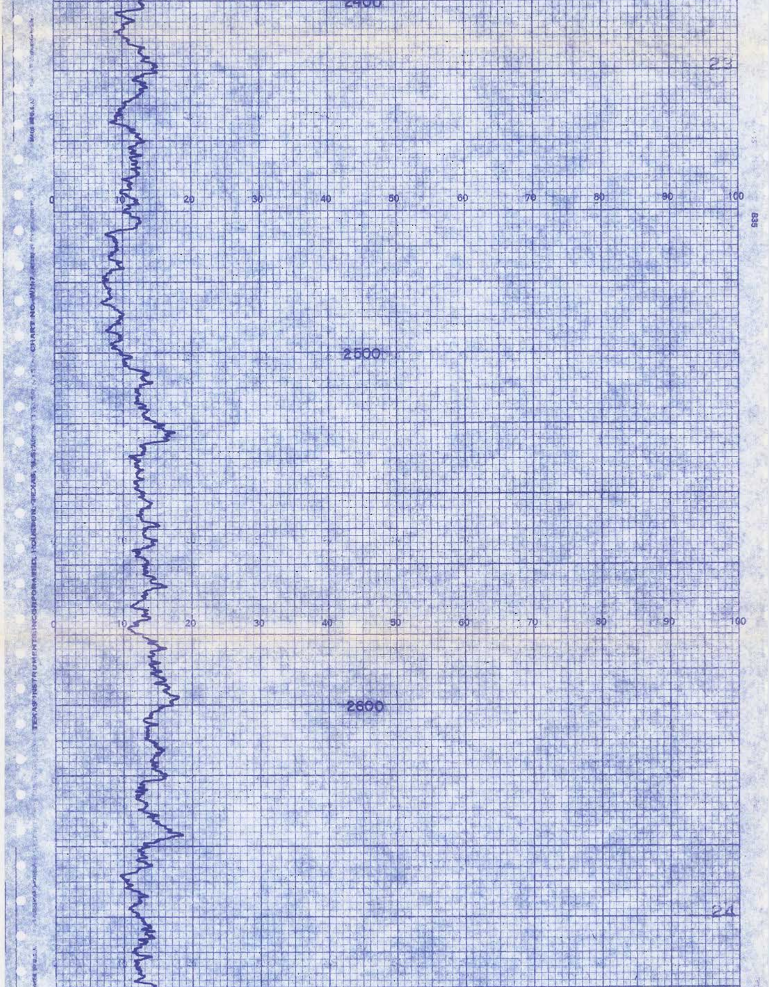


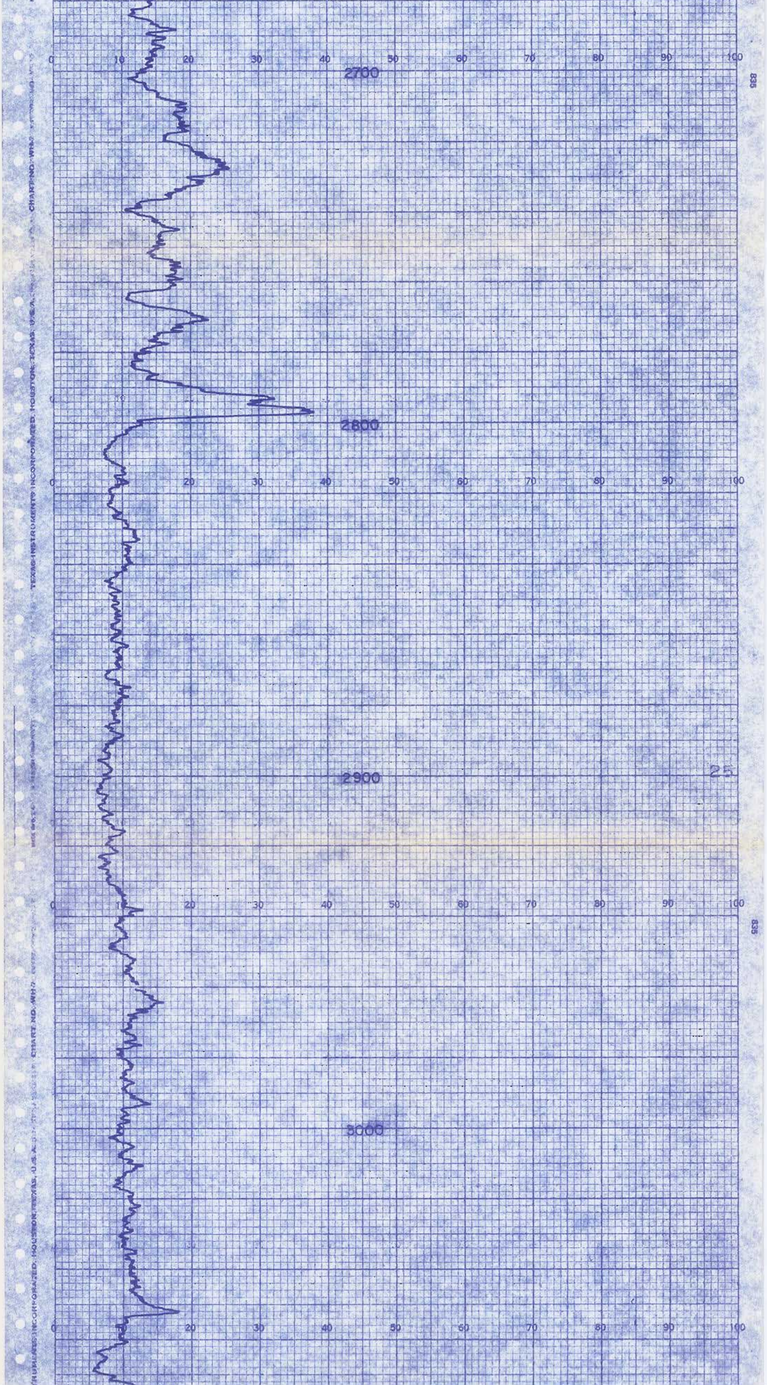












COUNTY BROWARD, FLORIDA
FIELD NA
LOCATION SEC - NA
WELL CORAL SPRINGS IMPROVEMENT DISTRICT #IW1
COMPANY GERAGHTY & MILLER

Schlumberger

COMPENSATED NEUTRON LOG

COMPANY GERAGHTY & MILLER

WELL CORAL SPRINGS IMPROVEMENT DISTRICT #IW1

FIELD NA

COUNTY BROWARD STATE FLORIDA

LOCATION NA

API SERIAL NO.	SEC.	TWP	RANGE
NA	NA	NA	NA

Other Services:
DIL/SFL,
CBL/VDL,
BHC/SONIC,
BHC/SONIC/VDL

Permanent Datum: PAD LEVEL ; Elev.: NA
Log Measured From NA Ft. Above Perm. Datum
Drilling Measured From NA

Elev.: K.B. NA
D.F. NA
G.L. NA

Date	24 JAN 85								
Run No.	ONE								
Depth—Driller	3100								
Depth—Logger (Schl.)	3097								
Btm. Log Interval	3040								
Top Log Interval	995								
Casing—Driller	31 @ 995		@		@		@		
Casing—Logger	992								
Bit Size	7 7/8								
Type Fluid in Hole	SALT WATER								
Dens. | Visc.	–	–							
pH | Fluid Loss	–	– ml		ml		ml		ml	
Source of Sample	–								
Rm @ Meas. Temp.	–	@ – °F		@ °F		@ °F		@ °F	
Rmf @ Meas. Temp.	–	@ – °F		@ °F		@ °F		@ °F	
Rmc @ Meas. Temp.	–	@ – °F		@ °F		@ °F		@ °F	
Source: Rmf | Rmc	–	–							
Rm @ BHT	–	@ – °F		@ °F		@ °F		@ °F	
TIME Circulation Stopped	1600 / 1-23								
TIME Logger on Bottom	0900								
Max. Rec. Temp.	– °F		°F		°F		°F		
Equip. | Location	8193 FT. MYERS								
Recorded By	BUCHEL								
Witnessed By	PETERS								

FOLD HERE

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

Run No.	ONE				
Service Order No.	179410				
API Serial No.	–				
Fluid Level	–				

EQUIPMENT DATA

NLM	65				
CNC	652				
SGT	1288				

CALIBRATION DATA

Speed - F.P.M.		–				
GR	BKG. CPS	–				
	Source CPS	–				
	Tc	–				

SCALE CHANGES

Type Log	Depth	Scale Up Hole	Scale Down Hole

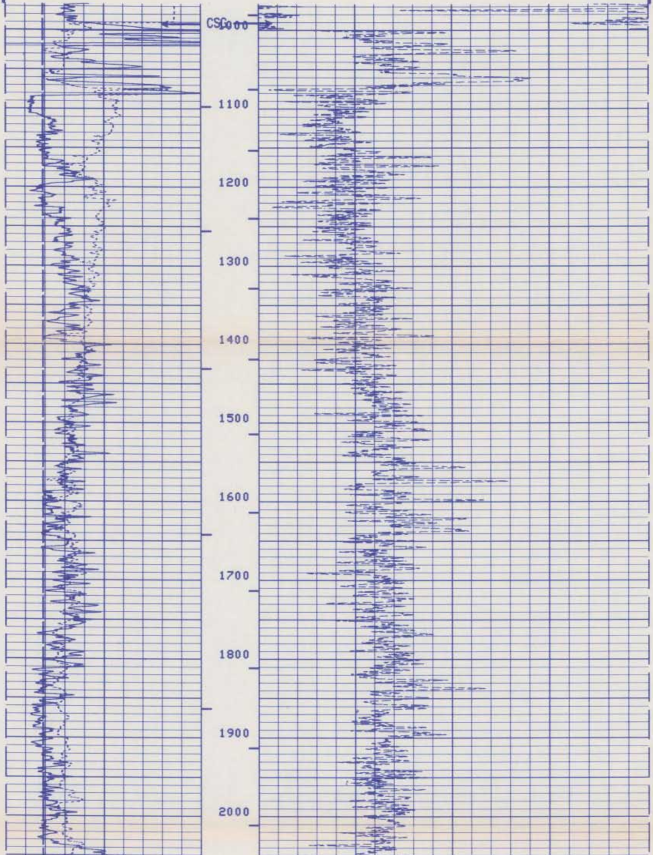
REMARKS:
WELL DRILLED BY REVERSE AIR, NO MUD RETURNS.

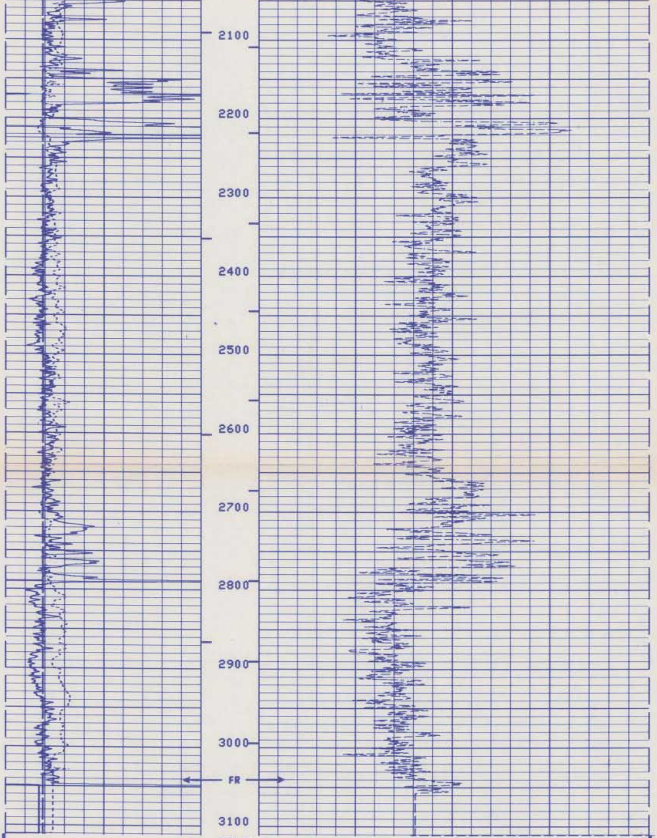
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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.

BS (IN)
6.0000 16.000
CALI(IN)
6.0000 16.000
GR (GAPI)
0.0 100.00

NPHI( )
0.6000 0.0

FILE
7





FILE

7

BS (IN)
6.0000 16.000

CALI(IN)
6.0000 16.000

GR (GAPI)
0.0 100.00

NPHI( )
0.6000 0.0

SENSOR MEASURE POINT TO TENSION REFERENCE POINT

CBL	34.6	FEET	AMPL	34.6	FEET
TT3	30.8	FEET	TT4	29.8	FEET
TT1	33.6	FEET	TT2	34.6	FEET
GR	62.5	FEET	SRAT	32.1	FEET
FCNL	54.0	FEET	NCNL	54.0	FEET
ILD	6.9	FEET	CALI	66.4	FEET
ILM	3.3	FEET	SFL	3.9	FEET
SPAR	.0	FEET	SP	.0	FEET
NRAT	54.0	FEET	TENS	.0	FEET
NDIS	26.3	FEET			

PARAMETERS

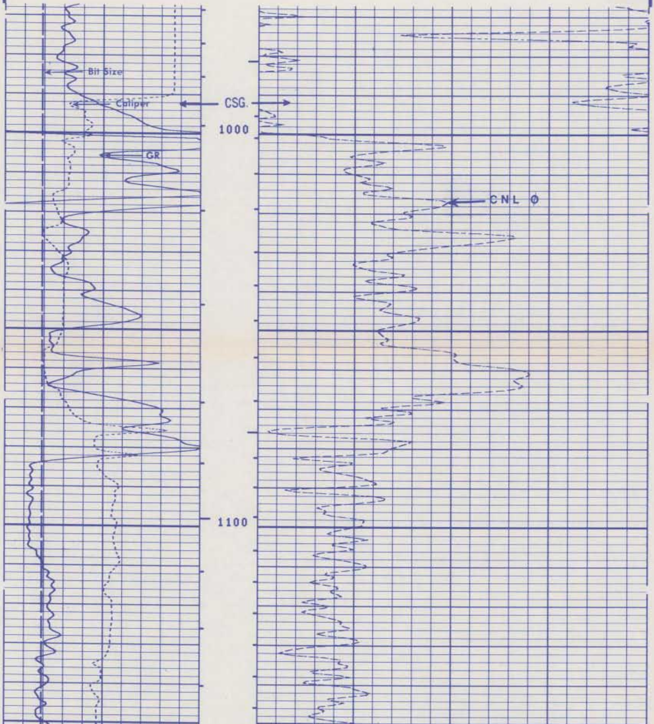
NAME	VALUE	UNIT	NAME	VALUE	UNIT
DDEL	200	US	BS	7.87500	IN
DWCO	512		DSIN	5	US
DTM	48.0000	US/F	CDTS	100.000	
PSNR	2.35200		DTF	189.000	US/F
MATR	LIME		HC	CALI	
SBR	1.00000	OHMM	DSEC	6.80000	MMHO
FPHI	SPHI		MSEC	6.10000	MMHO
DO	0.0	F	BHS	OPEN	
PP	NORM				

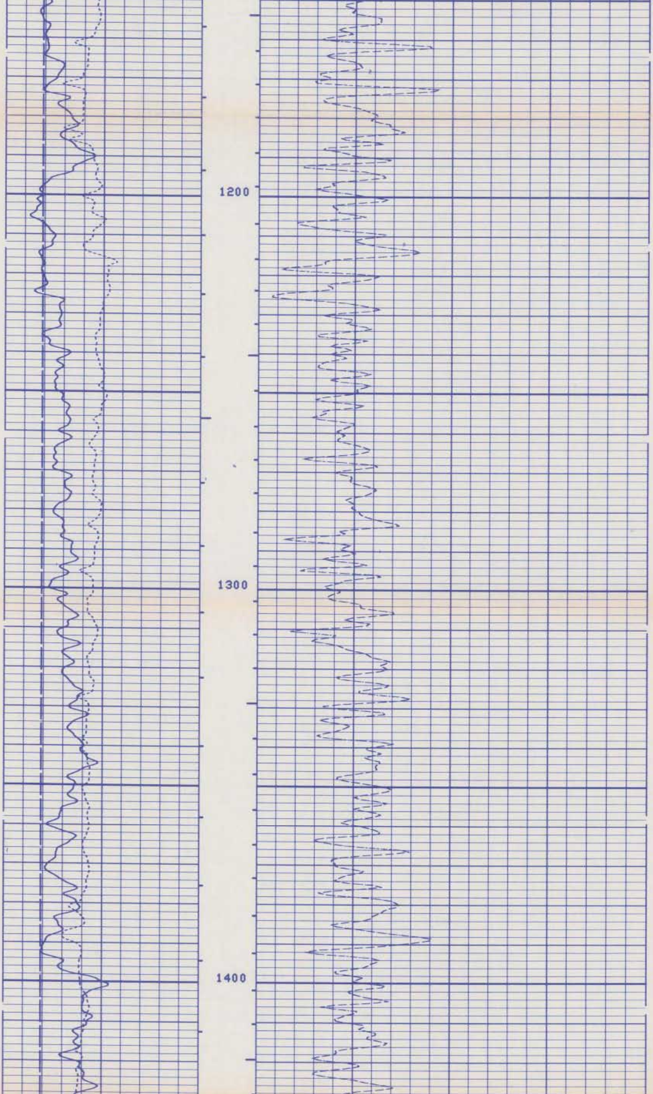
TAPE NOT MADE

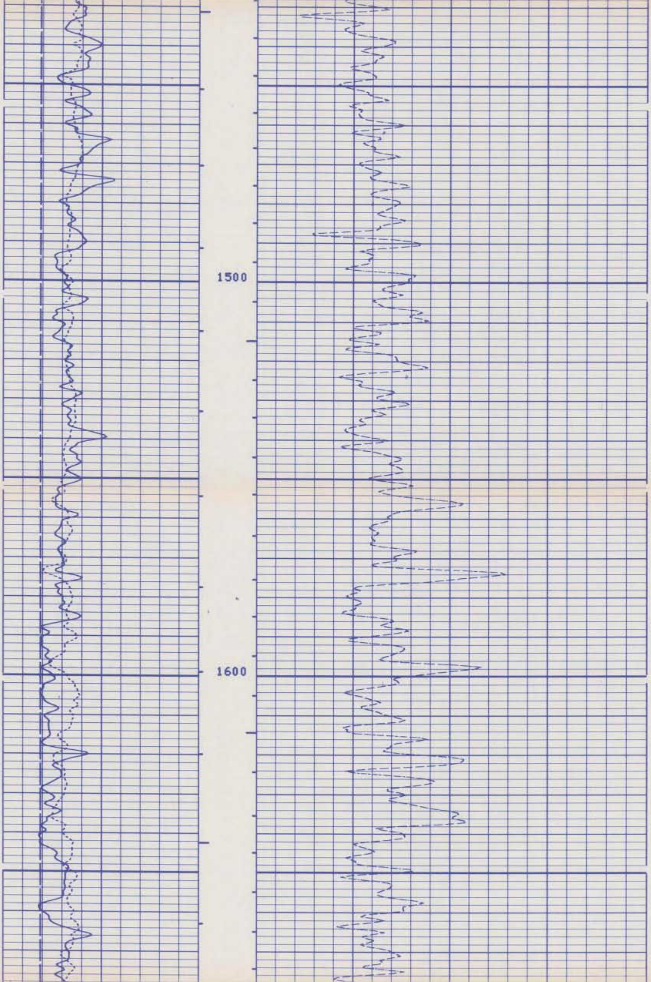
BS (IN)
6.0000 16.000
CALI(IN)
6.0000 16.000
GR (GAPI)
0.0 100.00

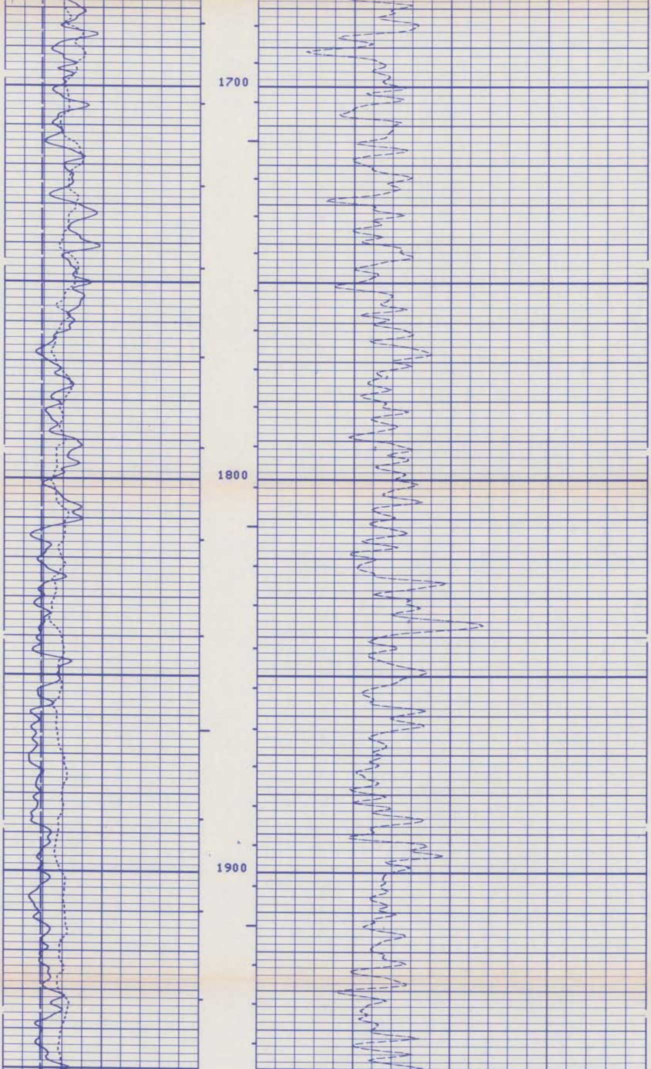
NPHI( )
0.6000 0.0

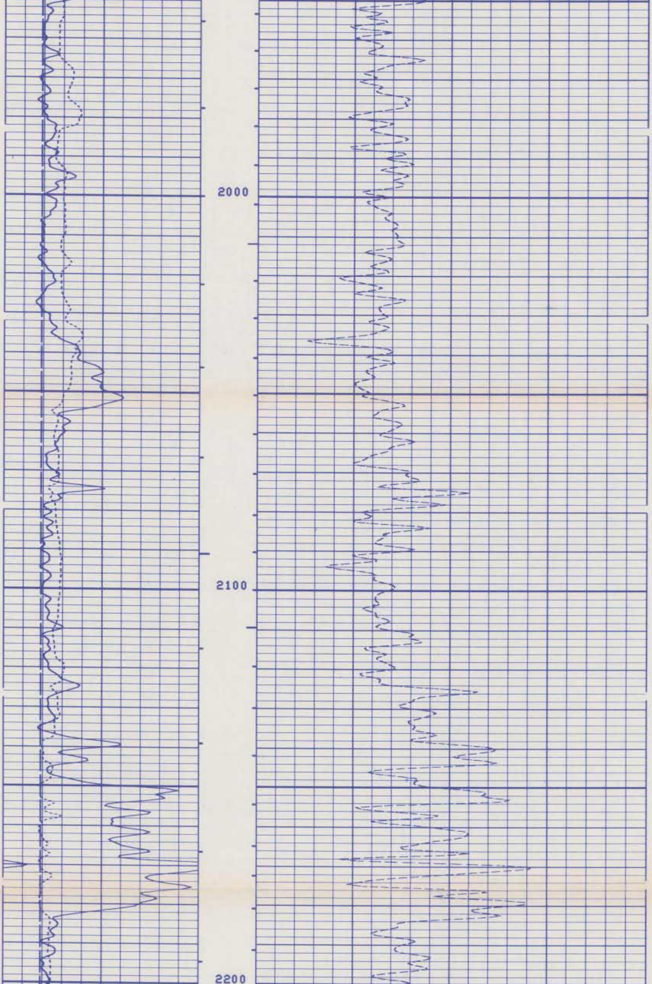
FILE
7

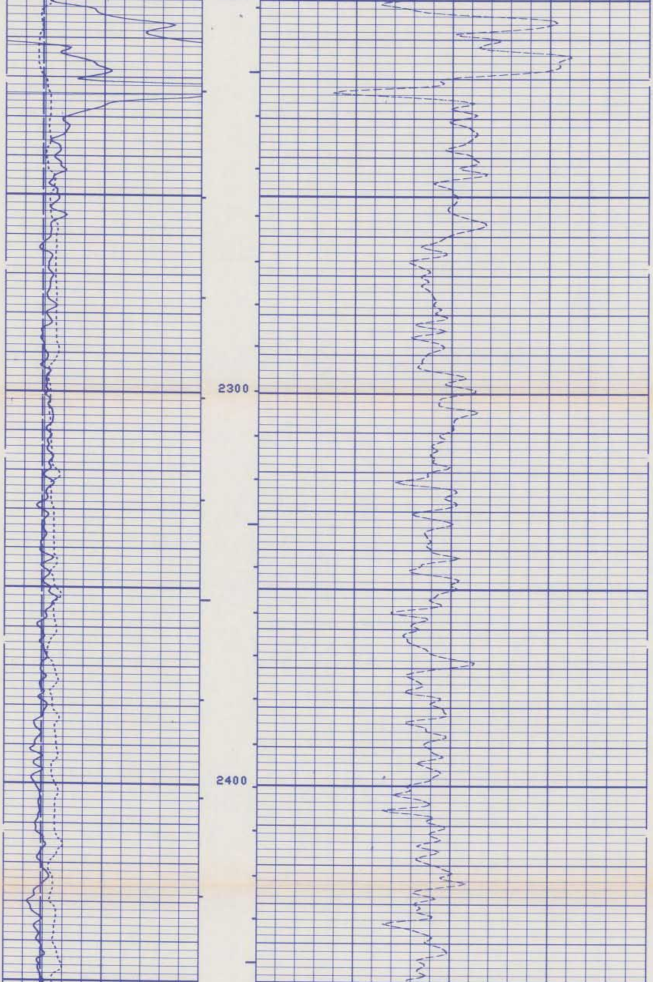


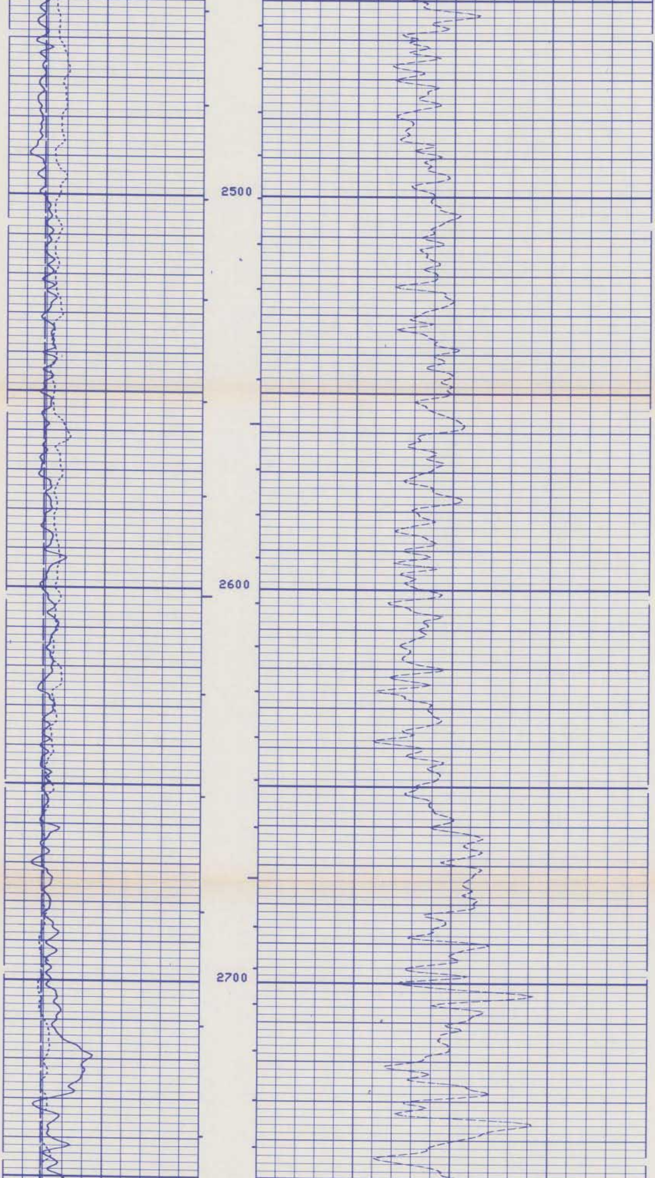


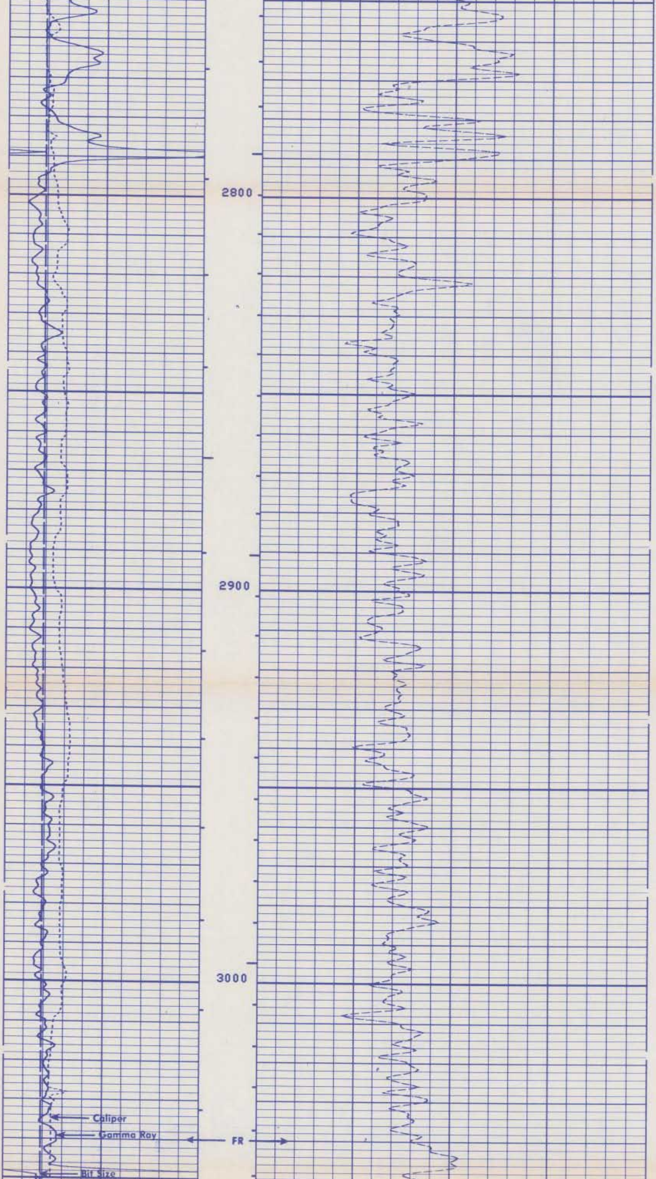


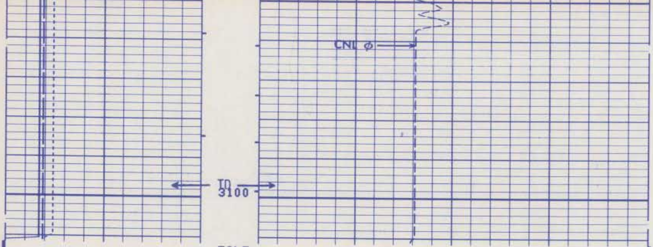












FILE

7

BS (IN)
6.0000 16.000
CALI(IN)
6.0000 16.000
GR (GAPI)
0.0 100.00

NPHI( )
0.6000 0.0

SENSOR MEASURE POINT TO TENSION REFERENCE POINT

CBL	34.6	FEET	AMPL	34.6	FEET
TT3	30.8	FEET	TT4	29.8	FEET
TT1	33.6	FEET	TT2	34.6	FEET
GR	62.5	FEET	SRAT	32.1	FEET
FCNL	54.0	FEET	NCNL	54.0	FEET
ILD	6.9	FEET	CALI	66.4	FEET
ILM	3.3	FEET	SFL	3.9	FEET
SPAR	.0	FEET	SP	.0	FEET
NRAT	54.0	FEET	TENS	.0	FEET
NDIS	26.3	FEET			

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
DDEL	200	US	BS	7.87500	IN
DWCO	512		DSIN	5	US
DTM	48.0000	US/F	CDTS	100.000	
PSNR	2.35200		DTF	189.000	US/F
MATR	LIME		HC	CALI	
SBR	1.00000	OHMM	DSEC	6.80000	MMHO
FPHI	SPHI		MSEC	6.10000	MMHO
DO	0.0	F	BHS	OPEN	
PP	NORM				

TAPE NOT MADE

AFTER SURVEY TOOL CHECK SUMMARY

PERFORMED: 85/01/24
PROGRAM FILE: ISN (VERSION 24.2 35/01/35)

DITD

TOOL CHECK

	ZERO		PLUS		
	BEFORE	AFTER	BEFORE	AFTER	UNITS
ILD	0.0	-0.9	499.8	496.7	MMHO
ILM	0.0	-0.2	500.0	495.5	MMHO
SFL	0.0	-0.7	500.0	494.7	MMHO

ILD SONDE ERROR CORRECTION : 6.8 MMHO
ILM SONDE ERROR CORRECTION : 6.1 MMHO

```
CNTA                          TOOL  CHECK

                              JIG
                   BEFORE          AFTER
  NRAT             2.202           2.218

  POROSITY CHANGE  (LIME):  0.002
                             FILE

                              0
```

```
                BEFORE SURVEY CALIBRATION SUMMARY

  PERFORMED:      85/01/24
  PROGRAM FILE: ISN    (VERSION    24.2    35/01/35)

DITD                ELECTRONICS CALIBRATION SUMMARY

              MEASURED                        CALIBRATED
            ZERO     PLUS                  ZERO        PLUS          UNITS
   ILD       0.9    503.0                   0.0        499.8          MMHO
   ILM       0.2    534.8                   0.0        500.0          MMHO
   SFL       0.7    529.0                   0.0        500.0          MMHO

ILD  SONDE ERROR CORRECTION :         6.8 MMHO
ILM  SONDE ERROR CORRECTION :         6.1 MMHO

SGTE                DETECTOR CALIBRATION SUMMARY

              MEASURED
            BKGD     JIG        CALIBRATED           UNITS
   GR        37      195           165               GAPI

CNTA                DETECTOR CALIBRATION SUMMARY

                 TANK                          JIG
            INPUT   CALIBRATED         MEASURED   CALIBRATED
  NRAT     2.35200  2.158                2.400      2.202

MCDB                CALIPER CALIBRATION SUMMARY

              MEASURED                      CALIBRATED
            SMALL    LARGE                SMALL       LARGE         UNITS
  CALI       7.8     11.7                  8.0        12.0           IN
                      FILE

                        0
```

```
                SHOP SUMMARY

  PERFORMED:      84/12/02
  PROGRAM FILE: SHOP   (VERSION    20.2    93/64/58)

CNTA                DETECTOR CALIBRATION SUMMARY

                 TANK                          JIG
        MEASURED  CALIBRATED       MEASURED   CALIBRATED

  NRAT     2.352       2.158          2.419        2.220

                    (CNC:652  , CNB:301  )
                     FILE

                       4
```

COUNTY BROWARD, FLORIDA
FIELD NA
LOCATION SEC NA
WELL CORAL SPRINGS IMPROVEMENT DISTRICT #IW1
COMPANY GERAGHTY & MILLER

Schlumberger

DUAL INDUCTION-SFL

COMPANY GERAGHTY & MILLER

WELL CORAL SPRINGS IMPROVEMENT DISTRICT #IW1

FIELD NA

COUNTY BROWARD STATE FLORIDA

LOCATION			
NA			
API SERIAL NO	SEC.	TWP	RANGE
NA	NA	NA	NA

Other Services:
BHC/SONIC,
CBL/VDL, CNL,
BHC/SONIC/VDL

Permanent Datum: PAD LEVEL ; Elev.: NA
Log Measured From NA Ft. Above Perm. Datum
Drilling Measured From NA

Elev.: K.B. NA
D.F. NA
G.L. NA

Date	24 JAN 85	29 MAY 85		
Run No.	ONE	TWO		
Depth—Driller	3100	3500		
Depth—Logger (Schl.)	3097	3499		
Btm. Log Interval	3091	3493		
Top Log Interval	995	2997		
Casing—Driller	31 @ 995	12 @ 2997	@	@
Casing—Logger	992	3000		
Bit Size	7 7/8	11		
Type Fluid in Hole	SALT WATER	SALT MUD		
Dens. | Visc.	– | –	– | –		
pH | Fluid Loss	– | – ml	– | – ml	ml	ml
Source of Sample	NONE	NONE		
Rm @ Meas. Temp.	– @ – °F	– @ – °F	@ °F	@ °F
Rmf @ Meas. Temp.	– @ – °F	– @ – °F	@ °F	@ °F
Rmc @ Meas. Temp.	– @ – °F	– @ – °F	@ °F	@ °F
Source: Rmf | Rmc	– | –	– | –		
Rm @ BHT	– @ – °F	– @ – °F	@ °F	@ °F
TIME Circulation Stopped	1600/ 1-23	–		
TIME Logger on Bottom	0900	2200		
Max. Rec. Temp.	– °F	– °F	°F	°F
Equip. | Location	8193 FT.MYERS	8193 FT.MYERS		
Recorded By	BUCHEL	BUCHEL		
Witnessed By	PETERS	SIMS, MOORE, PETERS		

FOLD HERE

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

Run No.	ONE	TWO		
Service Order No.	179410	391804		
Fluid Level	–	–		
Speed F.P.M.	–	–		
Salinity ppm. cl	–	–		
EQUIPMENT DATA				
Panel	323	323		
Cartridge	1123	1123		
Sonde	504	545		
Memorizer Panel	CSU	CSU		
Centralizer Type	–	–		
Stand-off - Inches	–	–		
G.R. Panel	65	65		
CALIBRATION DATA				
SBR	–	–		
ILD Sonde Error	–	–		
ILM Sonde Error	–	–		
S.E. Set In Hole - Depth	–	–		
S.E. Corr. - Hole Size	–	–		
G.R. Background	–	–		
G.R. Source	–	–		
T.C. - Cal.	–	–		
		–		
LOGGING DATA				
SBR	–	–		
ILD Sonde Error Log	–	–		
ILM Sonde Error Log	–	–		
G.R. Scale per 100 Div.	–	–		
G.R. - T.C. Log	–	–		

SCALE CHANGES

Type Log	DEPTH	Scale Up Hole	Scale Down Hole

REMARKS RUN ONE:
ELEVATIONS NOT AVAILABLE. WELL
DRILLED BY REVERSE AIR, NO MUD RETURNS.

RUN TWO:
TOOL STICKING AT 3170'. RAN REPEAT
AT TOP.

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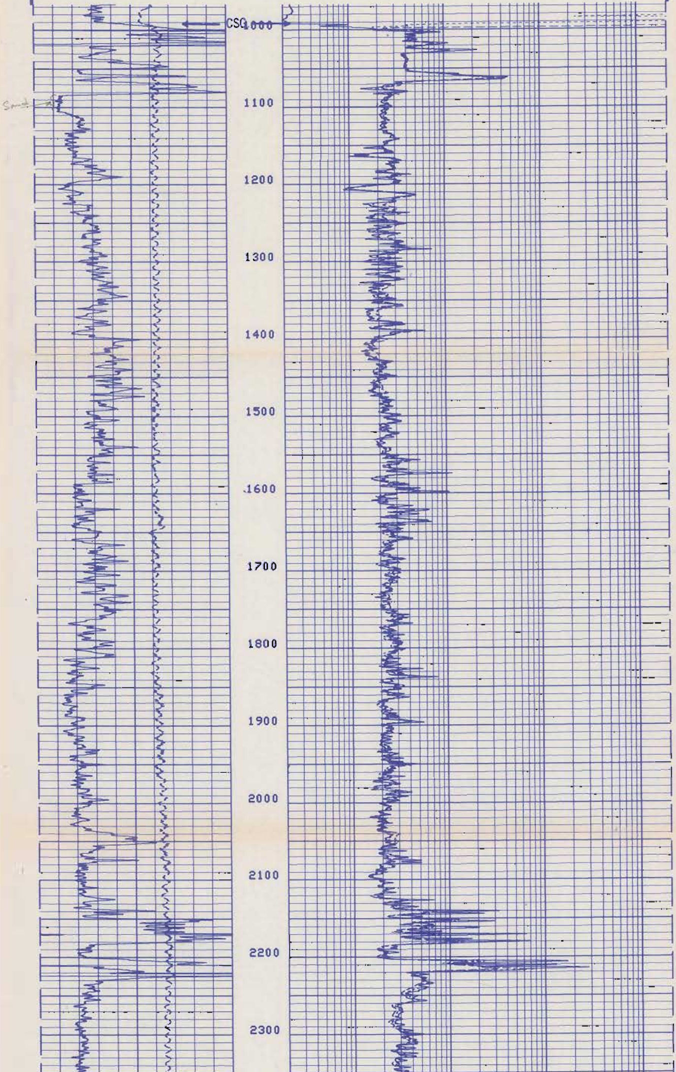
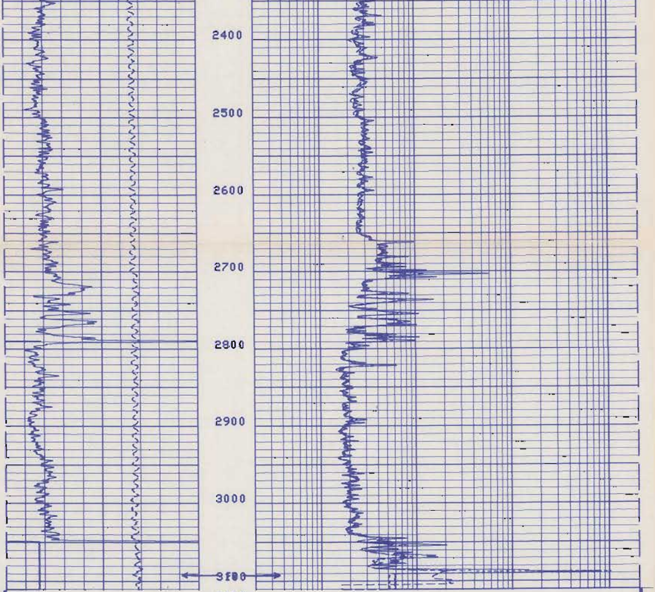
GR (GAPI)		ILD (OHMM)	
0.0	100.00	0.2000	2000.0
		ILM (OHMM)	
SP (MV)		0.2000	2000.0
-160.0	40.000	SFLU(OHMM)	
		0.2000	2000.0

Run 1

FILE

7





FILE

Run 1

7

ILD (OHMM)
0.2000 2000.0

GR (GAPI)
0.0 100.00

ILM (OHMM)
0.2000 2000.0

SP (MV)
-160.0 40.000

SFLU(OHMM)
0.2000 2000.0

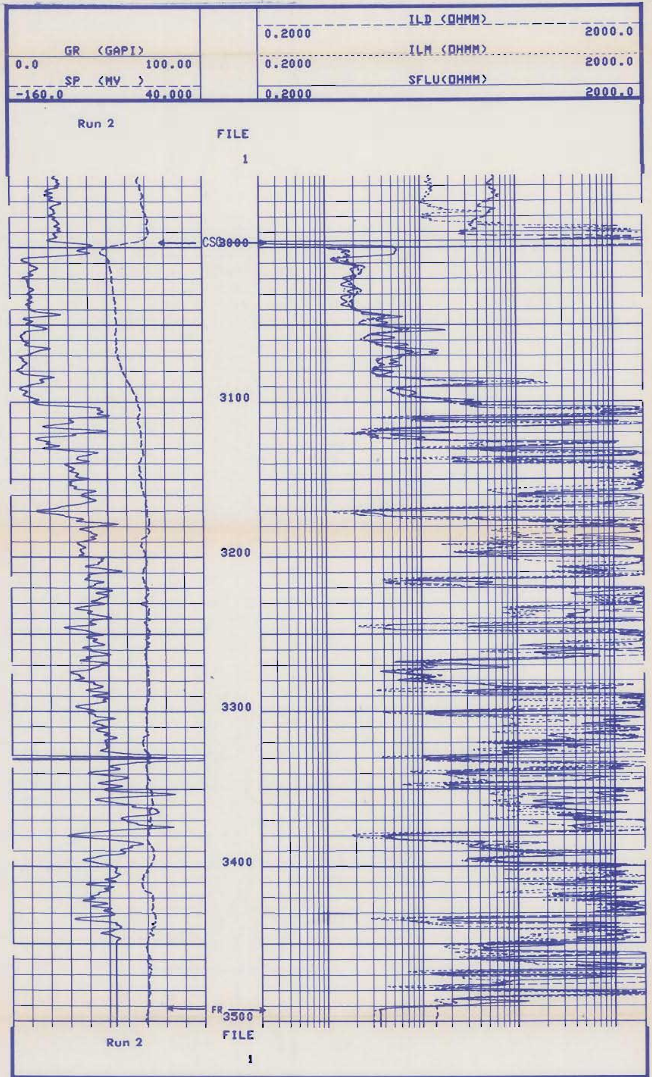
SENSOR MEASURE POINT TO TENSION REFERENCE POINT

CBL	34.6	FEET	AMPL	34.6	FEET
TT3	30.8	FEET	TT4	29.8	FEET
TT1	33.6	FEET	TT2	34.6	FEET
GR	62.5	FEET	SRAT	32.1	FEET
FCNL	54.0	FEET	NCNL	54.0	FEET
ILD	6.9	FEET	CALI	66.4	FEET
ILM	3.3	FEET	SFL	3.9	FEET
SPAR	.0	FEET	SP	.0	FEET
NRAT	54.0	FEET	TENS	.0	FEET
NOIS	26.3	FEET			

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
DDEL	200	US	BS	7.87500	IN
DWCO	512		DSIN	5	US
DTM	48.0000	US/F	CDTS	100.000	
PSNR	2.35200		DTF	189.000	US/F
MATR	LIME		HC	CALI	
SBR	1.00000	OHMM	DSEC	6.80000	MMHO
FPHI	SPHI		MSEC	6.10000	MMHO
DO	0.0	F	BHS	OPEN	
PP	NORM				

TAPE NOT MADE



GR (GAPI)
0.0 100.00
SP (MV)
-160.0 40.000

ILD (OHMM)
0.2000 2000.0
ILM (OHMM)
0.2000 2000.0
SFLU(OHMM)
0.2000 2000.0

SENSOR MEASURE POINT TO TENSION REFERENCE POINT

CBL	34.6	FEET	AMPL	34.6	FEET
TT3	30.8	FEET	TT4	29.8	FEET
TT1	33.6	FEET	TT2	34.6	FEET
GR	55.3	FEET	SRAT	32.1	FEET
ILD	6.9	FEET	CALI	59.2	FEET
ILM	3.3	FEET	SFL	3.9	FEET
SPAR	.0	FEET	SP	.0	FEET
NOIS	26.3	FEET	TENS	.0	FEET

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
DDEL	200	US	BS	11.0000	IN
DWCO	512		DSIN	5	US
DTM	48.0000	US/F	CDTS	100.000	
DSEC	3.50000	MMHO	DTF	189.000	US/F
MSEC	7.80000	MMHO	SBR	1.00000	OHMM
BHS	OPEN		FPHI	SPHI	
PP	RECO		DO	0.0	F

TAPE NOT MADE

GR (GAPI)
0.0 100.00
SP (MV)
-160.0 40.000

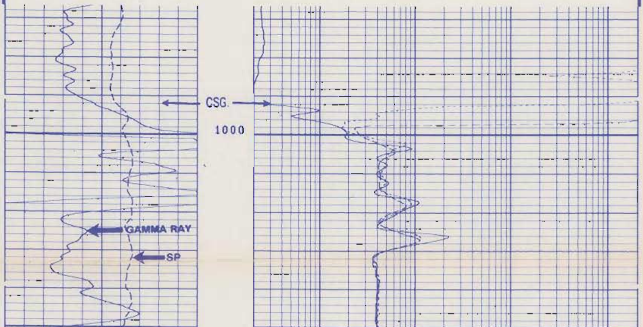
ILD (OHMM)
0.2000 2000.0
ILM (OHMM)
0.2000 2000.0
SFLU(OHMM)
0.2000 2000.0

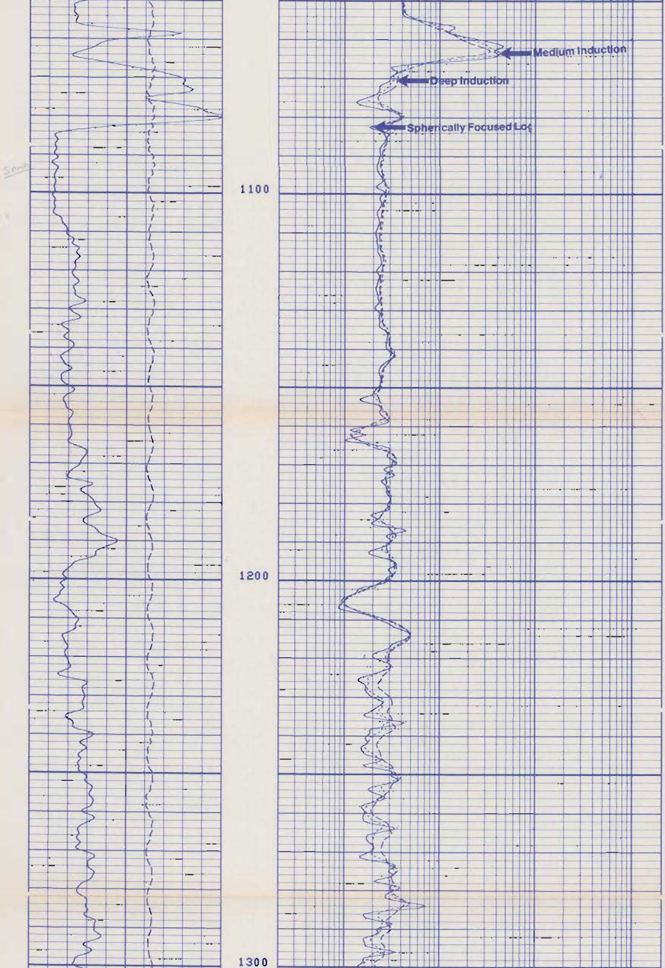
Run 1

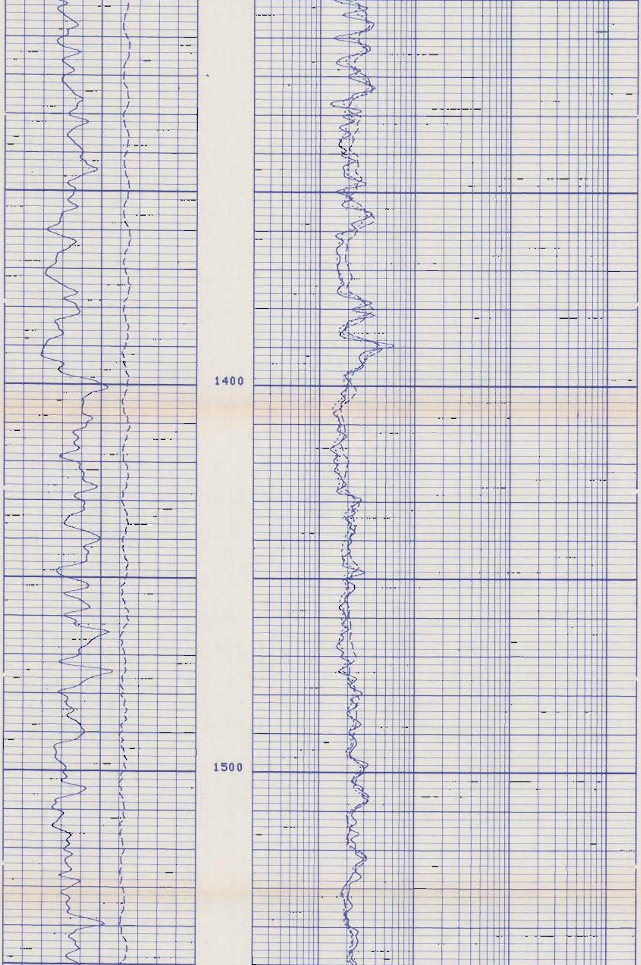
FILE

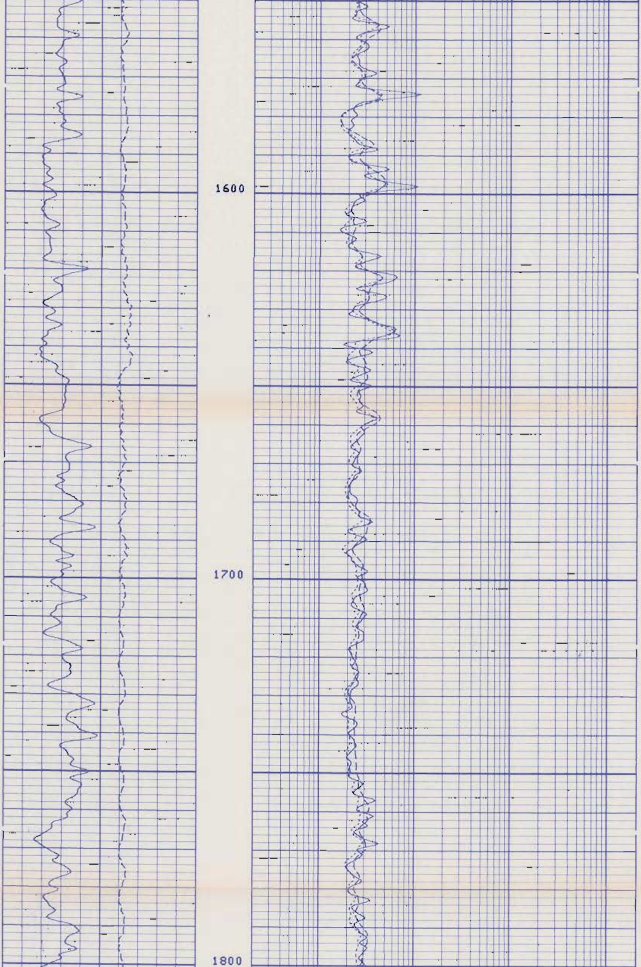
7

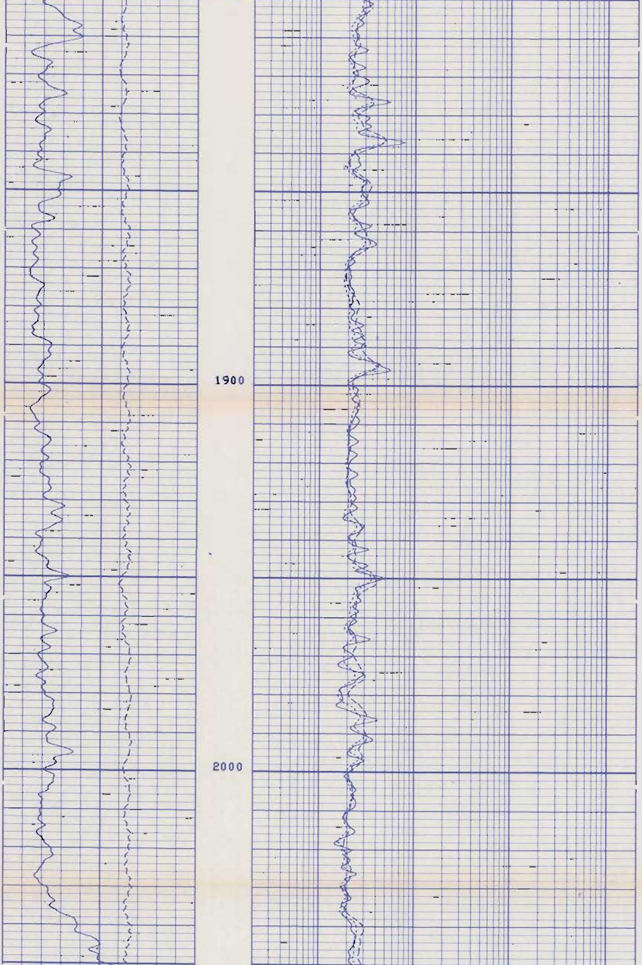
Run 1

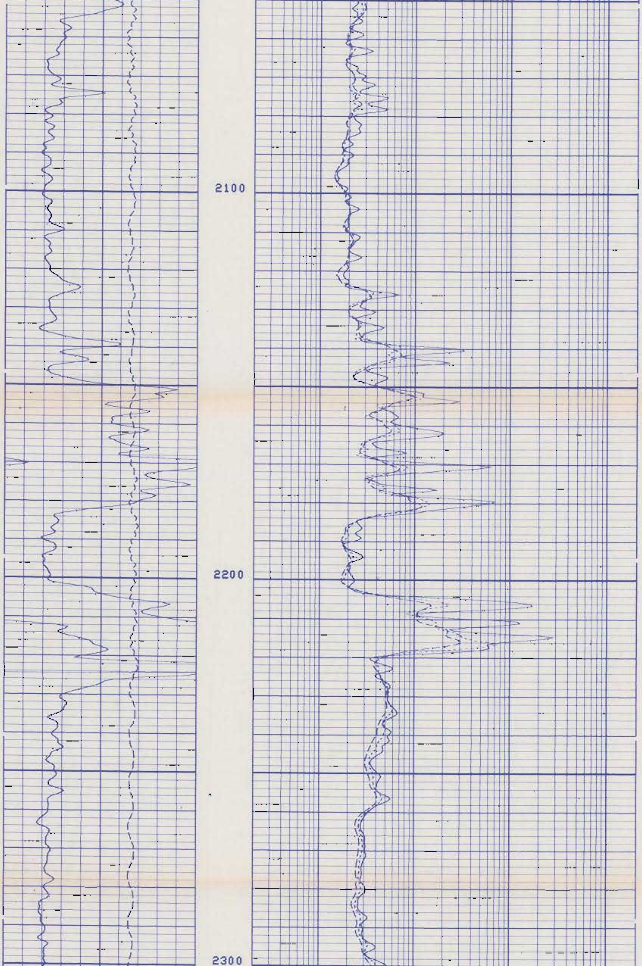


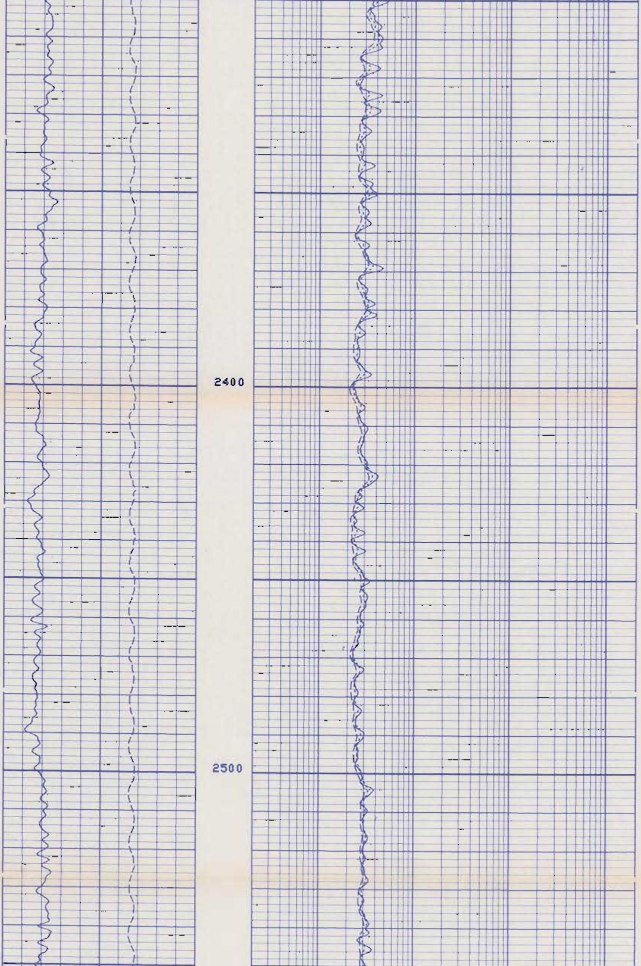


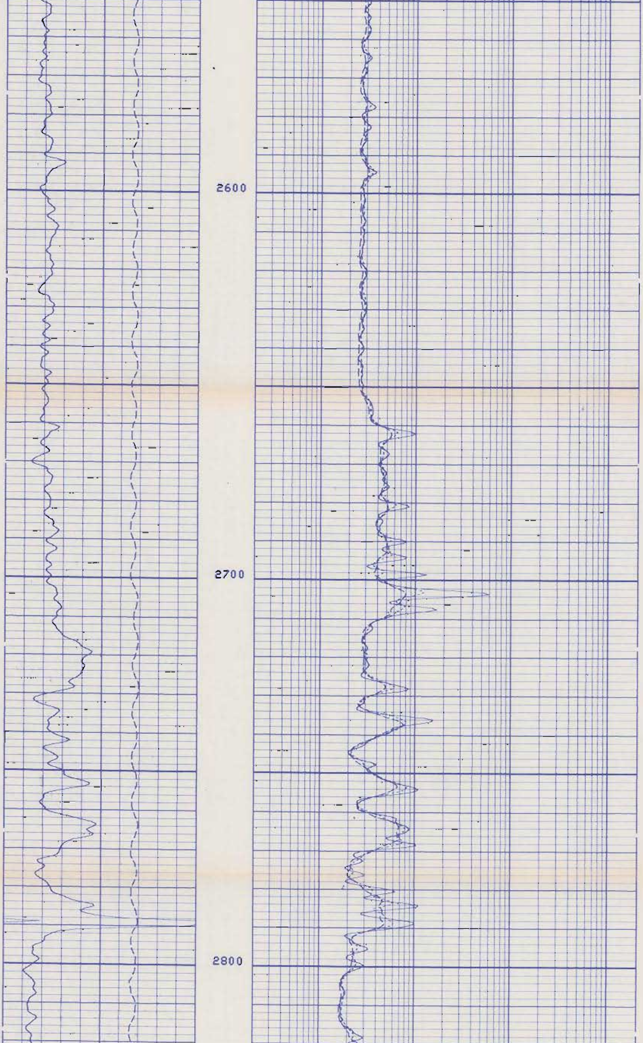


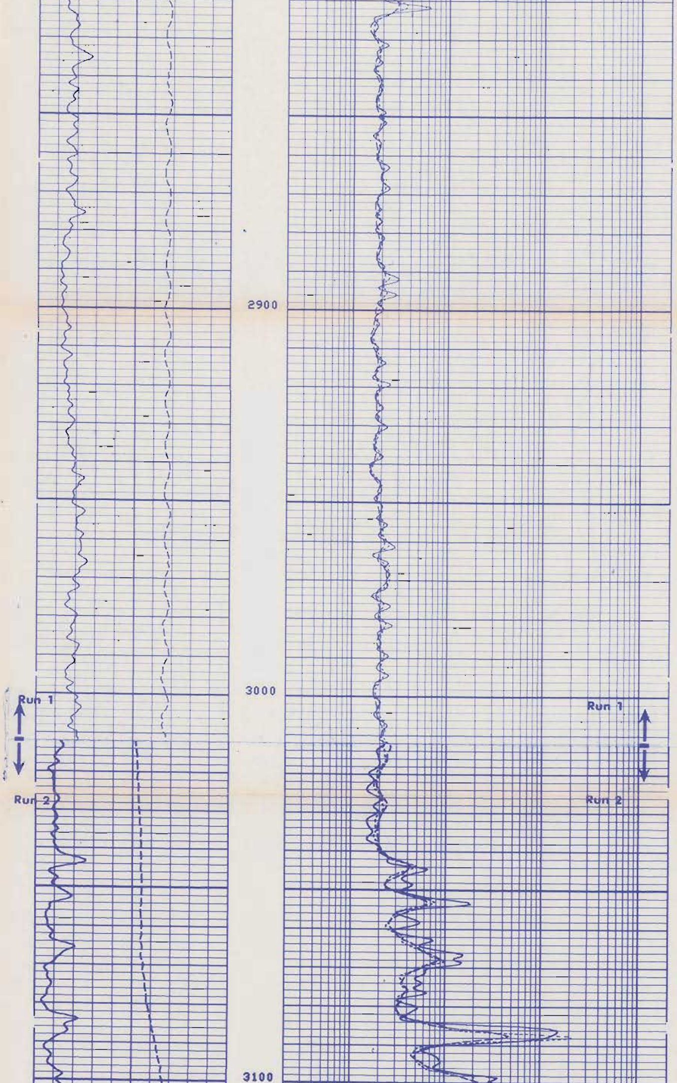


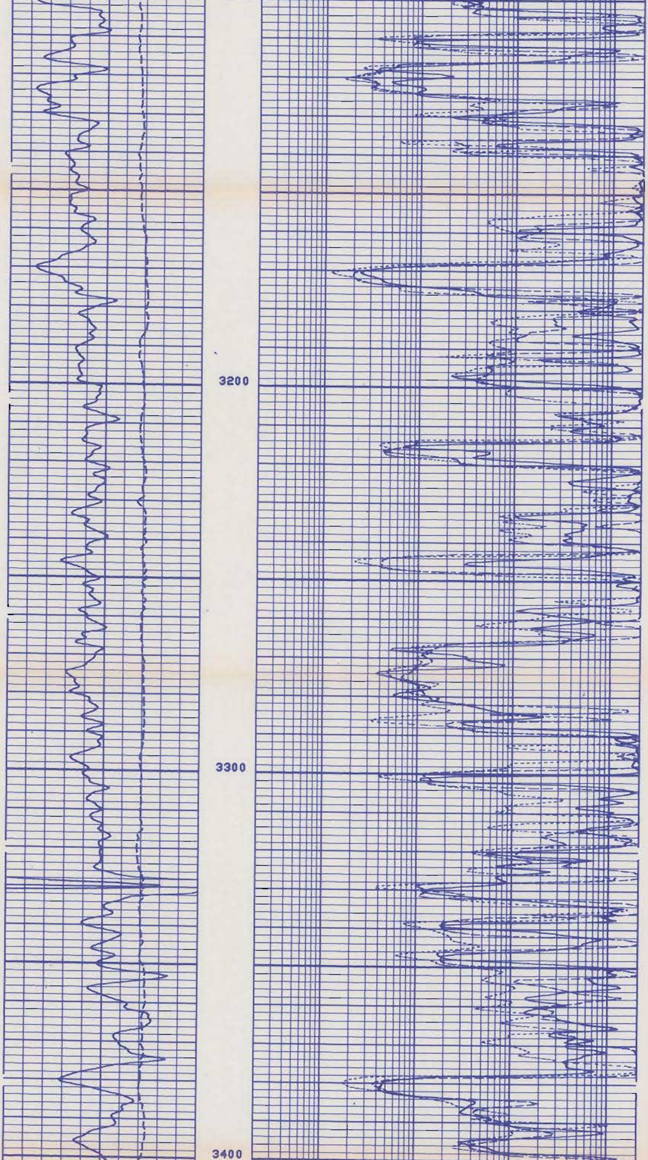


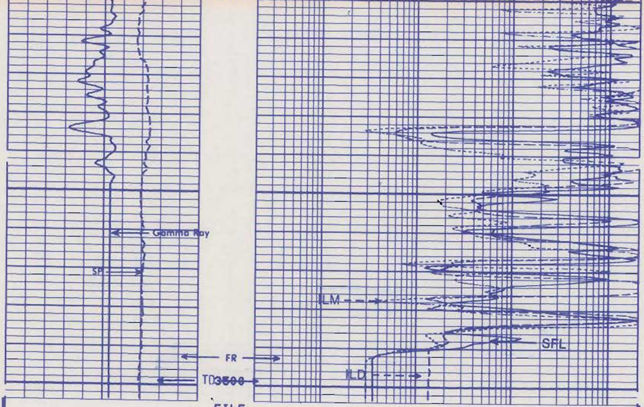












FILE

1

Run 2

Run 2

GR (GAPI)
0.0 100.00
SP (MV)
-160.0 40.000

ILD (OHMM)
0.2000 2000.0
ILM (OHMM)
0.2000 2000.0
SFLU(OHMM)
0.2000 2000.0

SENSOR MEASURE POINT TO TENSION REFERENCE POINT

CBL	34.6	FEET	AMPL	34.6	FEET
TT3	30.8	FEET	TT4	29.8	FEET
TT1	33.6	FEET	TT2	34.6	FEET
GR	55.3	FEET	SRAT	32.1	FEET
ILD	6.9	FEET	CALI	59.2	FEET
ILM	3.3	FEET	SFL	3.9	FEET
SPAR	.0	FEET	SP	.0	FEET
NOIS	26.3	FEET	TENS	.0	FEET

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
DDEL	200	US	BS	11.0000	IN
DWCO	512		DSIN	5	US
DTM	48.0000	US/F	CDTS	100.000	
DSEC	3.50000	MMHO	DTF	189.000	US/F
MSEC	7.80000	MMHO	SBR	1.00000	OHMM
BHS	OPEN		FPHI	SPHI	
PP	RECO		DO	0.0	F

TAPE NOT MADE

GR (GAPI)
0.0 100.00
SP (MV)
-160.0 40.000

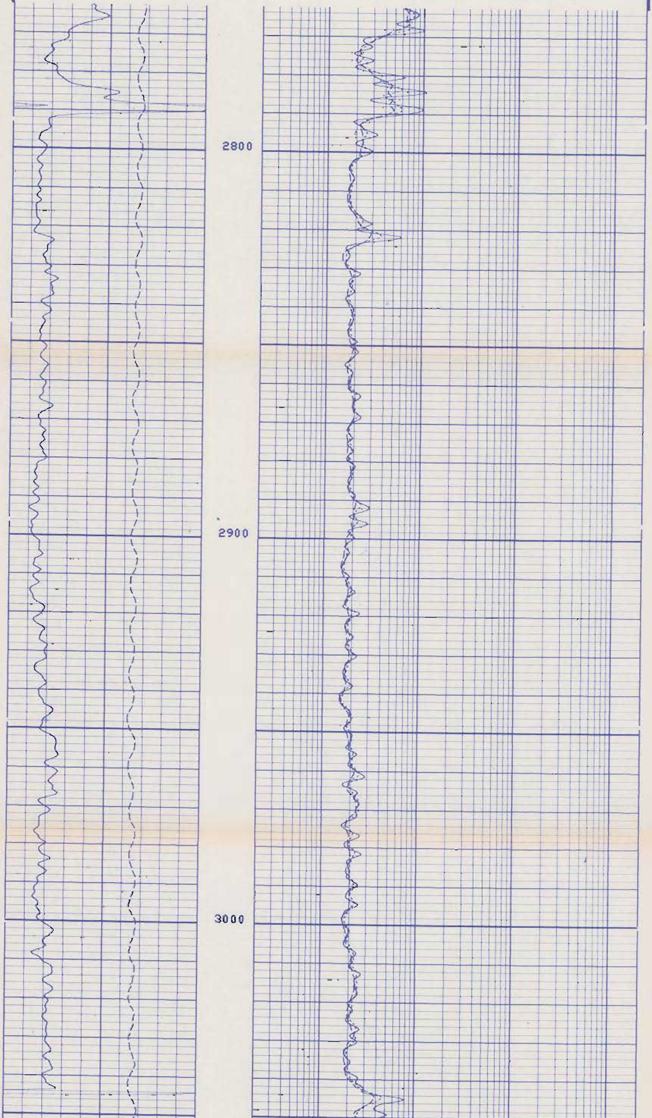
ILD (OHMM)
0.2000 2000.0
ILM (OHMM)
0.2000 2000.0
SFLU(OHMM)
0.2000 2000.0

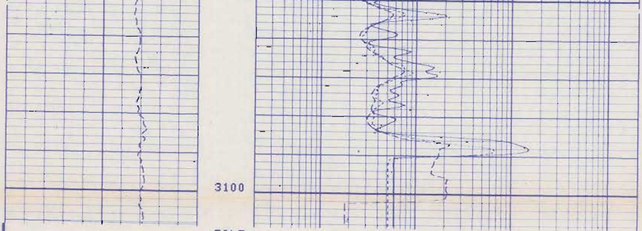
Run 1

FILE

6

REPEAT SECTION





Run 1

FILE
6

REPEAT SECTION

GR (GAPI)
0.0 100.00
SP (MV)
-160.0 40.000

ILD (OHMM)
0.2000 2000.0
ILM (OHMM)
0.2000 2000.0
SFLU(OHMM)
0.2000 2000.0

SENSOR MEASURE POINT TO TENSION REFERENCE POINT

CBL	34.6	FEET	AMPL	34.6	FEET
TT3	30.8	FEET	TT4	29.8	FEET
TT1	33.6	FEET	TT2	34.6	FEET
GR	62.5	FEET	SRAT	32.1	FEET
FCNL	54.0	FEET	NCNL	54.0	FEET
ILD	6.9	FEET	CALI	66.4	FEET
ILM	3.3	FEET	SFL	3.9	FEET
SPAR	.0	FEET	SP	.0	FEET
NRAT	54.0	FEET	TENS	.0	FEET
NOIS	26.3	FEET			

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
DDEL	200	US	BS	7.87500	IN
DWCO	512		DSIN	5	US
DTM	48.0000	US/F	CDTS	100.000	
PSNR	2.35200		DTF	189.000	US/F
MATR	LIME		HC	CALI	
SBR	1.00000	OHMM	DSEC	6.80000	MMHO
FPHI	SPHI		MSEC	6.10000	MMHO
DO	0.0	F	BHS	OPEN	

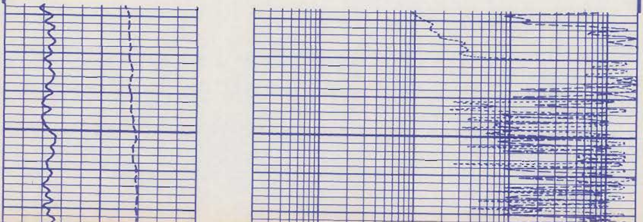
GR (GAPI)
0.0 100.00
SP (MV)
-160.0 40.000

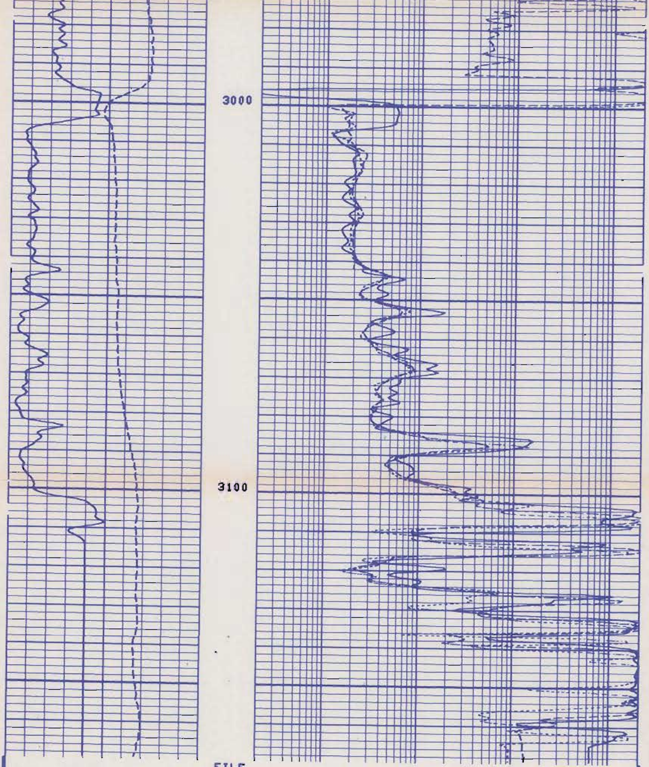
ILD (OHMM)
0.2000 2000.0
ILM (OHMM)
0.2000 2000.0
SFLU(OHMM)
0.2000 2000.0

Run 2

FILE
2

REPEAT SECTION





Run 2

FILE

2

REPEAT SECTION

GR (GAPI)
0.0 100.00
SP (MV)
-160.0 40.000

ILD (OHMM)
0.2000 2000.0
ILM (OHMM)
0.2000 2000.0
SFLU(OHMM)
0.2000 2000.0

SENSOR MEASURE POINT TO TENSION REFERENCE POINT

CBL	34.6	FEET	AMPL	34.6	FEET
TT3	30.8	FEET	TT4	29.8	FEET
TT1	33.6	FEET	TT2	34.6	FEET
GR	55.3	FEET	SRAT	32.1	FEET
ILD	6.9	FEET	CALI	59.2	FEET
ILM	3.3	FEET	SFL	3.9	FEET
SPAR	.0	FEET	SP	.0	FEET
NOIS	26.3	FEET	TENS	.0	FEET

```
                              PARAMETERS

        NAME  VALUE      UNIT                     NAME  VALUE     UNIT

        DDEL 200         US                       BS    11.0000   IN
        DWCO 512                                  DSIN 5          US
        DTM  48.0000     US/F                     CDTS 100.000
        DSEC 3.50000     MMHO                     DTF   189.000   US/F
        MSEC 7.80000     MMHO                     SBR   1.00000   OHMM
        BHS  OPEN                                 FPHI SPHI
        PP   RECO                                 DO    0.0       F

                             TAPE NOT MADE
```

```
 Run 1
             BEFORE SURVEY CALIBRATION SUMMARY


  PERFORMED:      85/01/24
  PROGRAM FILE: ISN    (VERSION    24.2     35/01/35)

 DITD              ELECTRONICS CALIBRATION SUMMARY

            MEASURED                         CALIBRATED
          ZERO     PLUS                   ZERO       PLUS          UNITS
    ILD    0.9    503.0                    0.0       499.8          MMHO
    ILM    0.2    534.8                    0.0       500.0          MMHO
    SFL    0.7    529.0                    0.0       500.0          MMHO

 ILD  SONDE ERROR CORRECTION :        6.8 MMHO
 ILM  SONDE ERROR CORRECTION :        6.1 MMHO


 SGTE              DETECTOR CALIBRATION SUMMARY

            MEASURED
          BKGD    JIG         CALIBRATED          UNITS
    GR     37     195           165               GAPI


 CNTA              DETECTOR CALIBRATION SUMMARY

              TANK                          JIG
          INPUT   CALIBRATED          MEASURED    CALIBRATED
   NRAT   2.35200  2.158               2.400        2.202


 MCDB              CALIPER CALIBRATION SUMMARY

            MEASURED                        CALIBRATED
          SMALL   LARGE                  SMALL      LARGE          UNITS
   CALI    7.8     11.7                   8.0        12.0           IN
                       FILE

                         4
```

```
             AFTER SURVEY TOOL CHECK SUMMARY


  PERFORMED:      85/01/24
  PROGRAM FILE: ISN    (VERSION    24.2     35/01/35)

 DITD                   TOOL  CHECK

                 ZERO                             PLUS
          BEFORE        AFTER            BEFORE        AFTER      UNITS
    ILD    0.0          -0.9             499.8         496.7      MMHO
    ILM    0.0          -0.2             500.0         495.5      MMHO
    SFL    0.0          -0.7             500.0         494.7      MMHO

 ILD  SONDE ERROR CORRECTION :        6.8 MMHO
 ILM  SONDE ERROR CORRECTION :        6.1 MMHO


 CNTA                   TOOL  CHECK

                     JIG
               BEFORE      AFTER
   NRAT        2.202       2.218
```

```
  POROSITY CHANGE  (LIME):  0.002
                        FILE
```

Run 1

```
                    SHOP SUMMARY

  PERFORMED:      84/12/02
  PROGRAM FILE: SHOP   (VERSION    20.2    93/64/58)

DITD                  ELECTRONICS CALIBRATION SUMMARY

                TEST LOOP CALIBRATION               TOOL CHECK
             MEASURED          CALIBRATED           CALIBRATED
            ZERO      PLUS      ZERO      PLUS      ZERO      PLUS    UNITS
    ILD     -7.0      498.1      0.0      500.0      0.0      504.2   MMHO
    ILM     -7.2      494.6      0.0      500.0      0.0      503.2   MMHO
 ILD  SONDE ERROR CORRECTION :         6.8    MMHO
 ILM  SONDE ERROR CORRECTION :         6.1    MMHO

                      (IS:504  , IC:1153 )
```

Run 2

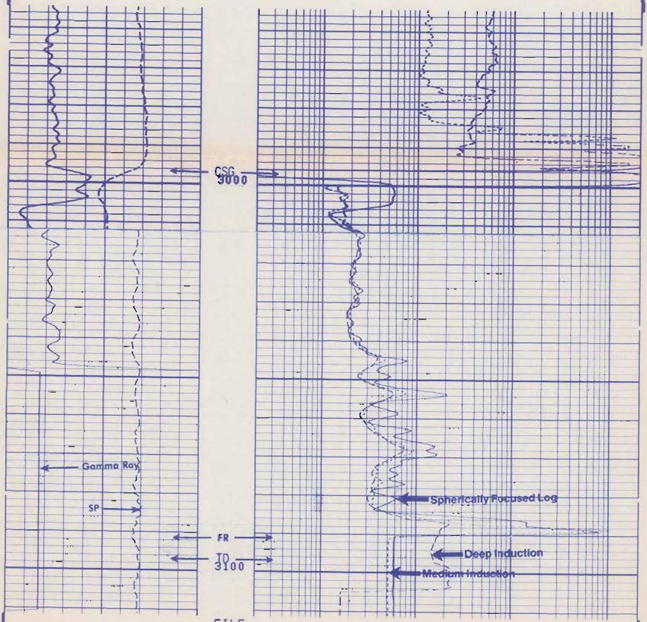
```
                 BEFORE SURVEY CALIBRATION SUMMARY

  PERFORMED:      85/05/29
  PROGRAM FILE: ISN    (VERSION    24.2    35/01/35)

DITD                  ELECTRONICS CALIBRATION SUMMARY

             MEASURED                       CALIBRATED
            ZERO     PLUS                ZERO        PLUS          UNITS
    ILD      0.3     499.8                0.0        499.8          MMHO
    ILM      0.2     521.3                0.0        500.0          MMHO
    SFL      0.1     523.5                0.0        500.0          MMHO
```

```
                    SHOP SUMMARY

  PERFORMED:      85/04/28
  PROGRAM FILE: SHOP   (VERSION    20.2    93/64/58)

DITD                  ELECTRONICS CALIBRATION SUMMARY
```

Run 2

```
                TEST LOOP CALIBRATION               TOOL CHECK
             MEASURED          CALIBRATED           CALIBRATED
            ZERO      PLUS      ZERO      PLUS      ZERO      PLUS    UNITS
    ILD     -5.7      516.2      0.0      500.0      0.0      500.0   MMHO
    ILM     -9.1      505.9      0.0      500.0      0.0      502.2   MMHO
 ILD  SONDE ERROR CORRECTION :         3.5    MMHO
 ILM  SONDE ERROR CORRECTION :         7.8    MMHO
```

```
                                 |           ILD (OHMM)
                                 | 0.2000                     2000.0
      GR  (GAPI)                 |           ILM (OHMM)
 0.0                 100.00      | 0.2000                     2000.0
        SP  (MV  )               |           SFLU(OHMM)
 -160.0              40.000      | 0.2000                     2000.0

                    FILE

                      1
```



FILE

7

GR (GAPI)		SP (MV)		ILD (OHMM)		ILM (OHMM)		SFLU(OHMM)	
0.0	100.00	-160.0	40.000	0.2000	2000.0	0.2000	2000.0	0.2000	2000.0

SENSOR MEASURE POINT TO TENSION REFERENCE POINT

CBL	34.6	FEET	AMPL	34.6	FEET
TT3	30.8	FEET	TT4	29.8	FEET
TT1	33.6	FEET	TT2	34.6	FEET
GR	62.5	FEET	SRAT	32.1	FEET
FCNL	54.0	FEET	NCNL	54.0	FEET
ILD	6.9	FEET	CALI	66.4	FEET
ILM	3.3	FEET	SFL	3.9	FEET
SPAR	.0	FEET	SP	.0	FEET
NRAT	54.0	FEET	TENS	.0	FEET
NOIS	26.3	FEET			

PARAMETERS

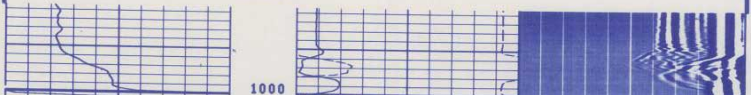
NAME	VALUE	UNIT	NAME	VALUE	UNIT
DDEL	200	US	BS	7.87500	IN
DWCO	512		DSIN	5	US
DTM	48.0000	US/F	CDTS	100.000	
PSNR	2.35200		DTF	189.000	US/F
MATR	LIME		HC	CALI	
SBR	1.00000	OHMM	DSEC	6.80000	MMHO
FPHI	SPHI		MSEC	6.10000	MMHO
DO	0.0	F	BHS	OPEN	

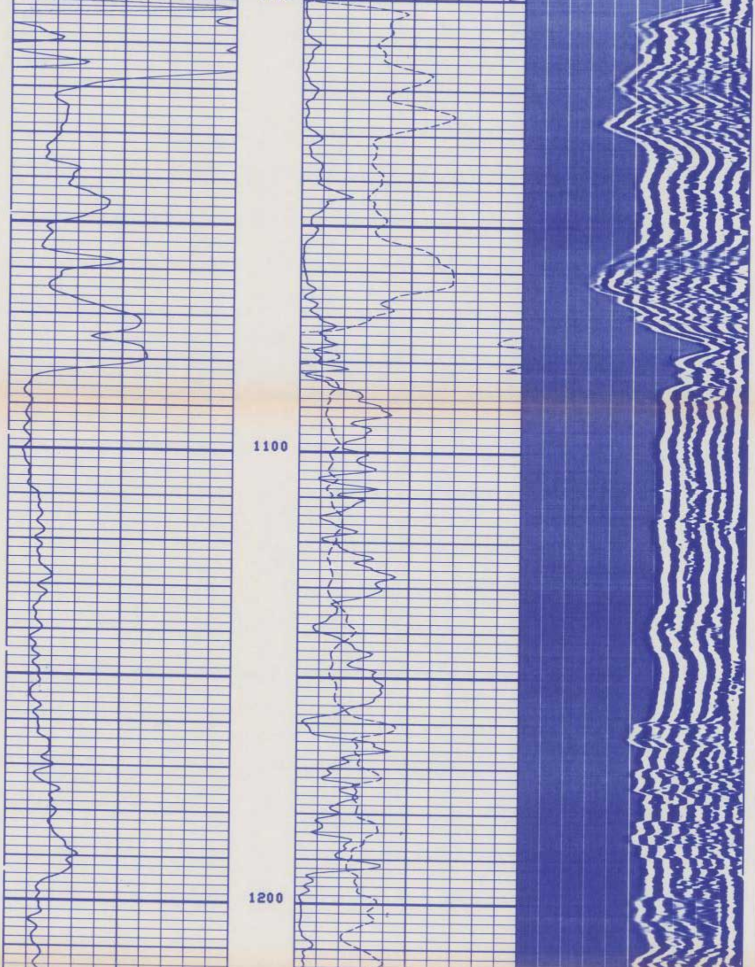
```
                  BEFORE SURVEY CALIBRATION SUMMARY

   PERFORMED:      85/01/24
   PROGRAM FILE: ISN    (VERSION   24.2    35/01/35)

  DITD               ELECTRONICS CALIBRATION SUMMARY

              MEASURED                     CALIBRATED
            ZERO    PLUS                 ZERO     PLUS          UNITS
     ILD     0.9   503.0                  0.0    499.8          MMHO
     ILM     0.2   534.8                  0.0    500.0          MMHO
     SFL     0.7   529.0                  0.0    500.0          MMHO

  ILD  SONDE ERROR CORRECTION :          6.8 MMHO
  ILM  SONDE ERROR CORRECTION :          6.1 MMHO

  SGTE               DETECTOR CALIBRATION SUMMARY

              MEASURED
            BKGD    JIG        CALIBRATED          UNITS
     GR      37     195           165              GAPI

  CNTA               DETECTOR CALIBRATION SUMMARY

               TANK                          JIG
         INPUT  CALIBRATED          MEASURED   CALIBRATED
   NRAT  2.35200  2.158              2.400       2.202

  MCDB               CALIPER CALIBRATION SUMMARY

              MEASURED                     CALIBRATED
            SMALL   LARGE                SMALL     LARGE        UNITS
    CALI     7.8    11.7                  8.0      12.0          IN
                   FILE

                     4
```

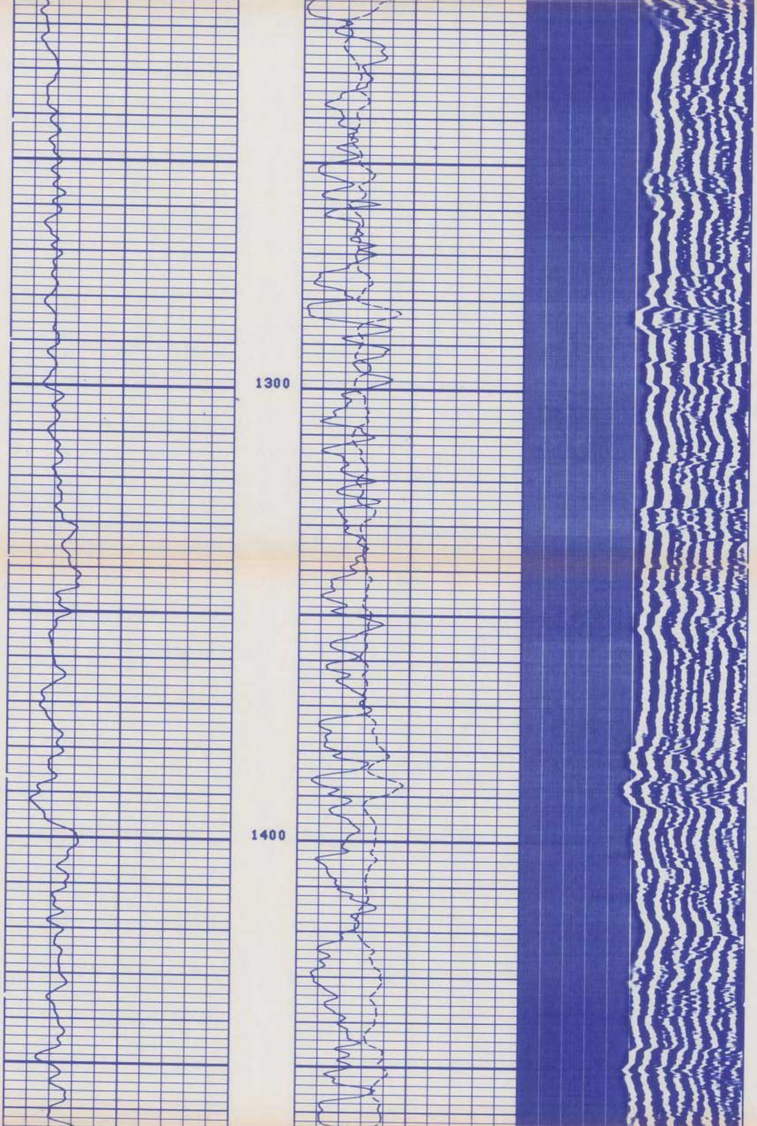
GR (GAPI)		CBL (MV)	
		0.0 50.00	
0.0 150.0		TT (US) 600.0 200.0	

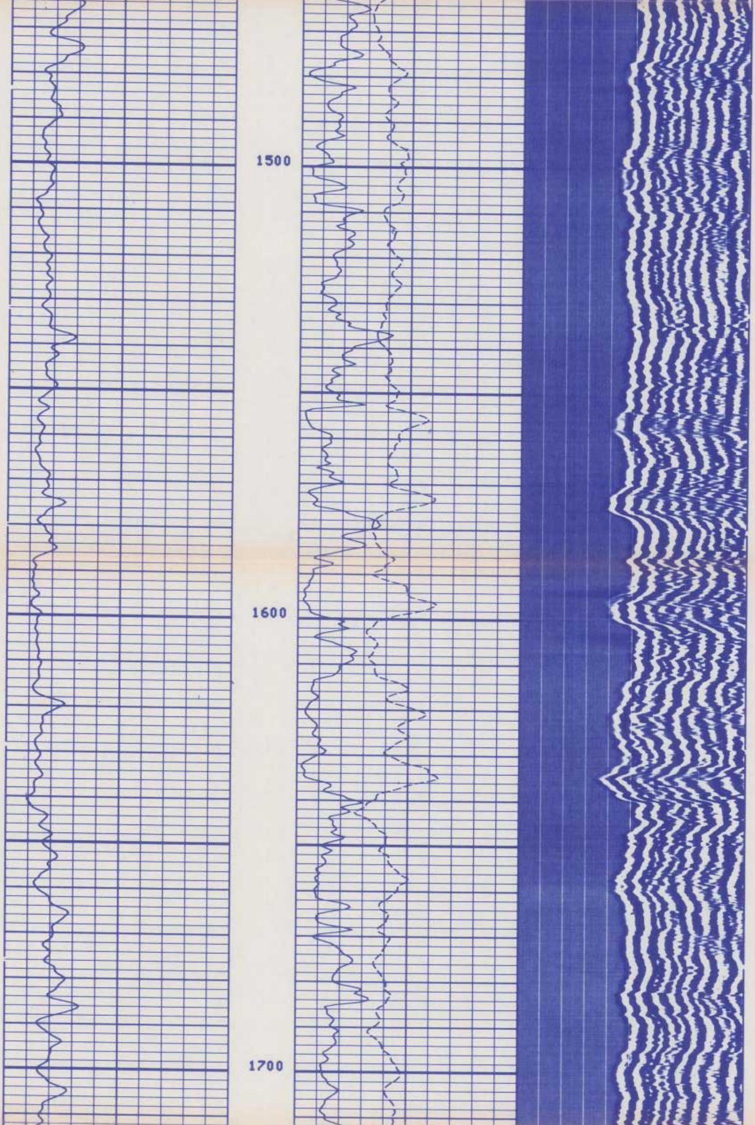
FILE

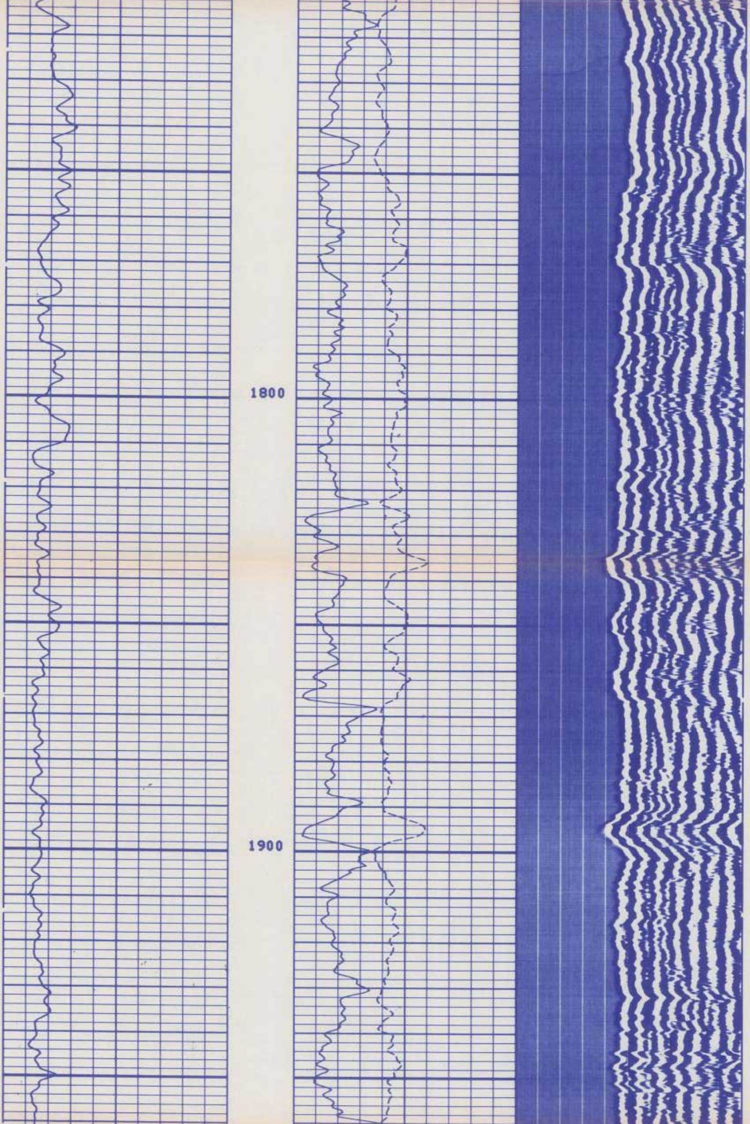
16708

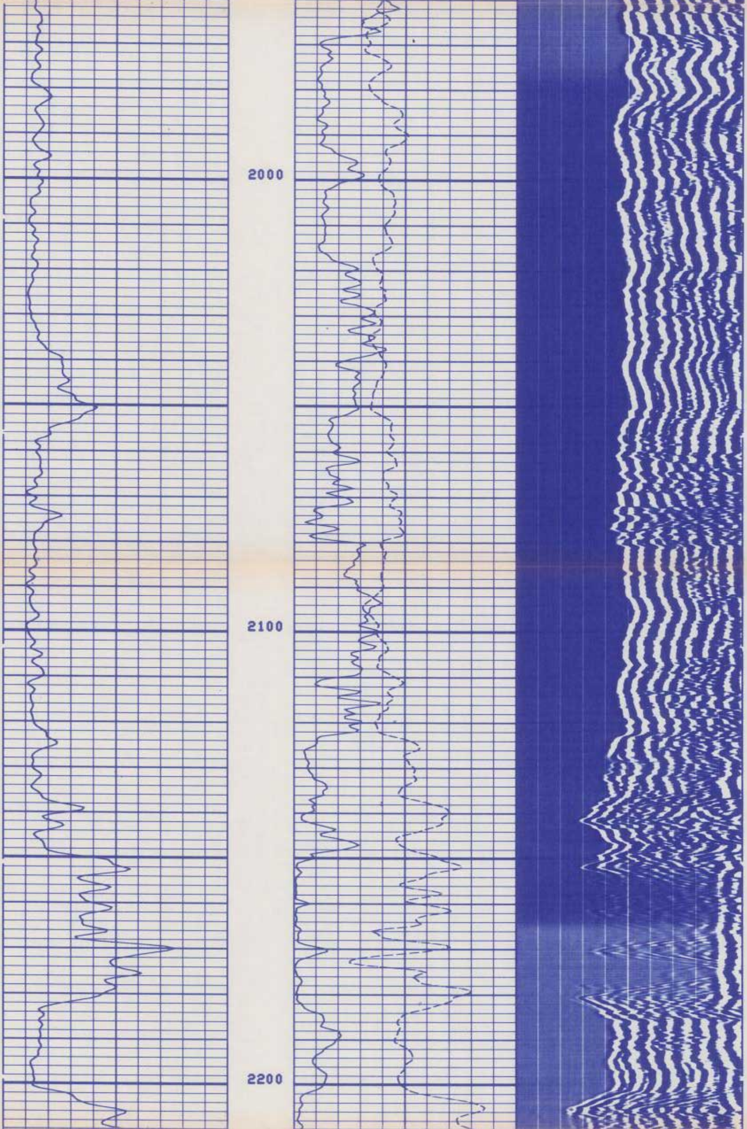


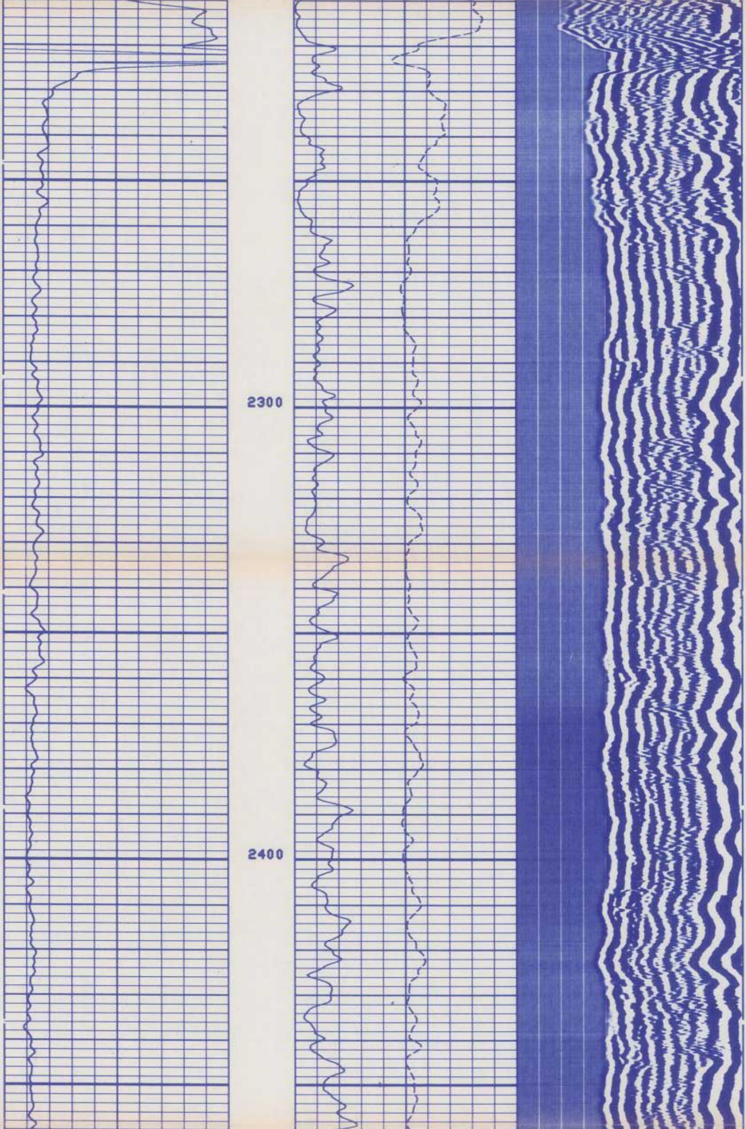


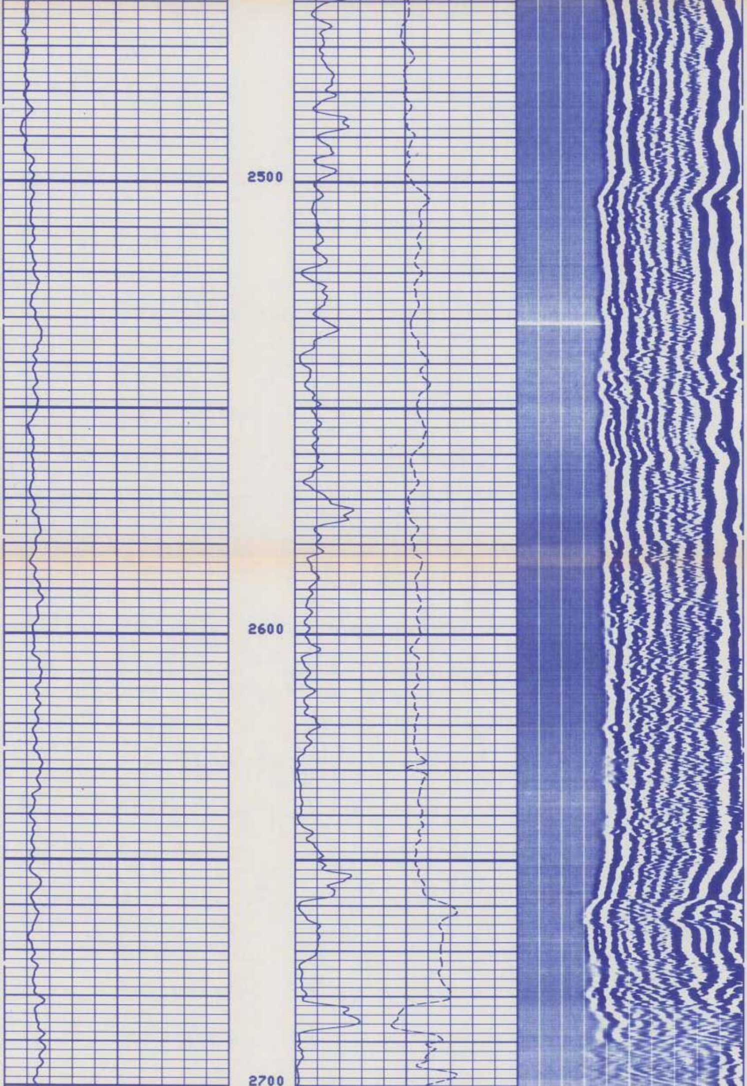


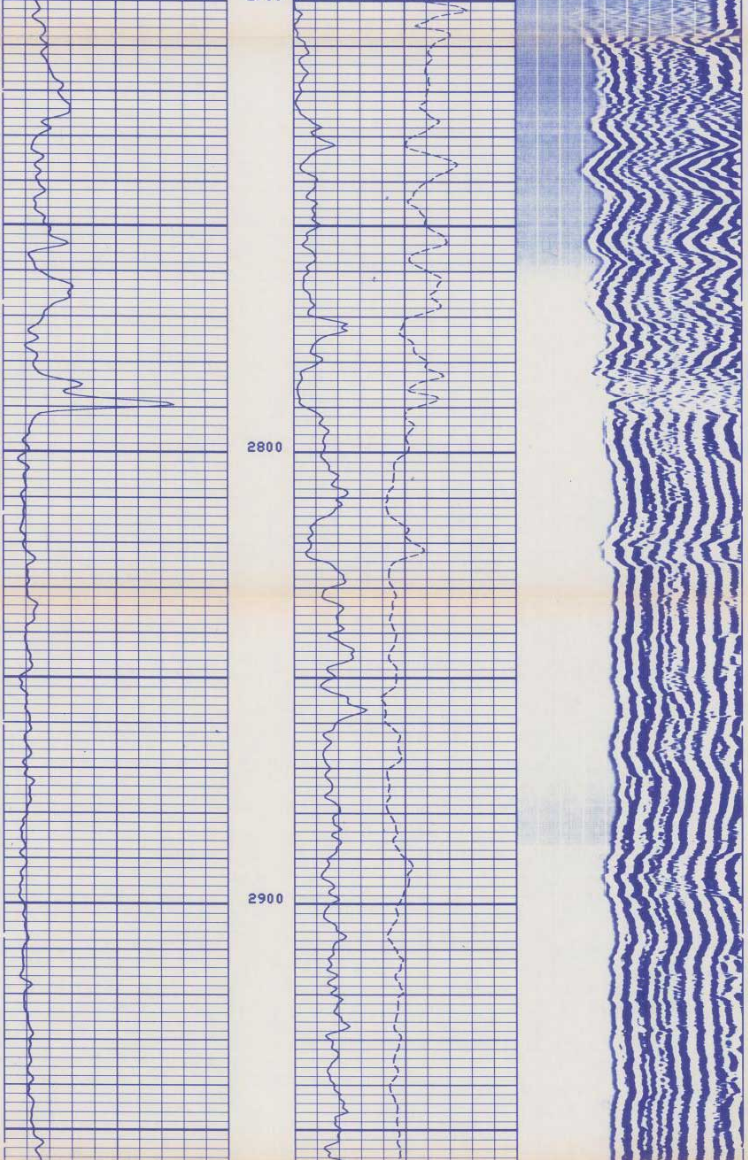


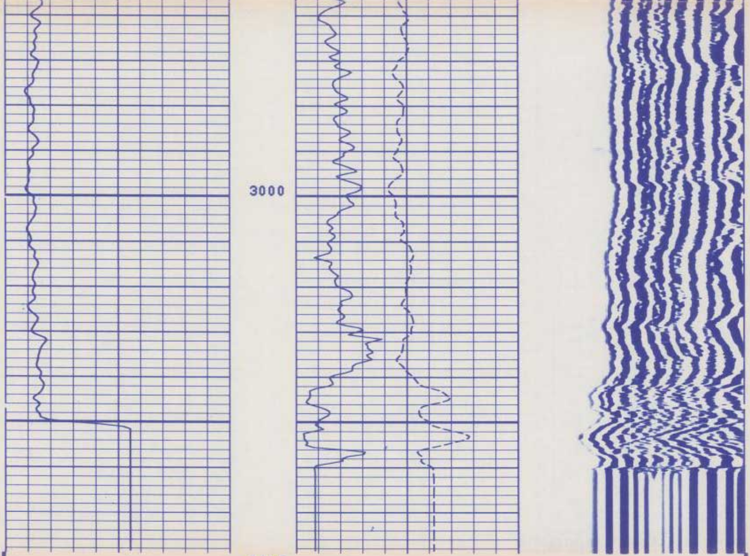












FILE

16708

GR (GAPI)		CBL (MV)	
0.0	150.0	0.0	50.00
		TT (US)	
		600.0	200.0

SENSOR MEASURE POINT TO TENSION REFERENCE POINT

AMPL	.0	FEET	DT	4.8	FEET
SRAT	4.8	FEET	CBL	.0	FEET
GR	27.4	FEET	TT	.0	FEET
FCNL	18.9	FEET	NCNL	18.9	FEET
NRAT	18.9	FEET	TENS	.0	FEET
NOIS	-1.0	FEET			

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
CDTS	100.0		BS	7.875	IN
DTF	189.0	US/F	DTM	56.00	US/F
HC	BS		PSNR	0.0	
BHS	OPEN		MATR	LIME	
DO	0.0				

Schlumberger

BHC SONIC - VDL

COMPANY GERAGHTY & MILLER

WELL CORAL SPRINGS IMPROVEMENT DISTRICT #IW1

FIELD NA

COUNTY BROWARD STATE FLORIDA

LOCATION	API SERIAL NO	SEC	TWP	RANGE
NA	NA	NA	NA	NA

Other Services:
DIL/SFL,
BHC/SONIC,
CNL, CBL/VDL

COUNTY BROWARD, FLORIDA
FIELD NA
LOCATION SEC NA
WELL CORAL SPRINGS IMPROVEMENT DISTRICT #IW1
COMPANY GERAGHTY & MILLER

Permanent Datum: PAD LEVEL ; Elev.: NA
Log Measured From NA Ft. Above Perm. Datum
Drilling Measured From NA

Elev.: K.B. NA
D.F. NA
G.L. NA

Date	24 JAN 85			
Run No.	ONE			
Depth—Driller	3100			
Depth—Logger (Schl.)	3097			
Btm. Log Interval	3061			
Top Log Interval	995			
Casing—Driller	31 @ 995	@	@	@
Casing—Logger	992			
Bit Size	7 7/8			
Type Fluid in Hole	SALT WATER			
Dens. | Visc.	- | -			
pH | Fluid Loss	- | - ml	ml	ml	ml
Source of Sample	NONE			
Rm @ Meas. Temp.	- @ - °F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	- @ - °F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	- @ - °F	@ °F	@ °F	@ °F
Source: Rmf | Rmc	- | -			
Rm @ BHT	- @ - °F	@ °F	@ °F	@ °F
TIME Circulation Stopped	1600/ 1-23			
TIME Logger on Bottom	0900			
Max. Rec. Temp.	- °F	°F	°F	°F
Equip. | Location	8193 | FT.MYERS			
Recorded By	BUCHEL			
Witnessed By	PETERS			

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

Run No.	ONE			
Service Order No.	179410			
API Serial No.	-			
Fluid Level	-			

EQUIPMENT DATA				
SLM	551			
SLC	571			
SLS	305			
SGT	1288			
NLM	65			
MCD	1610			

SCALE CHANGES

Type Log	Depth	Scale Up Hole	Scale Down Hole

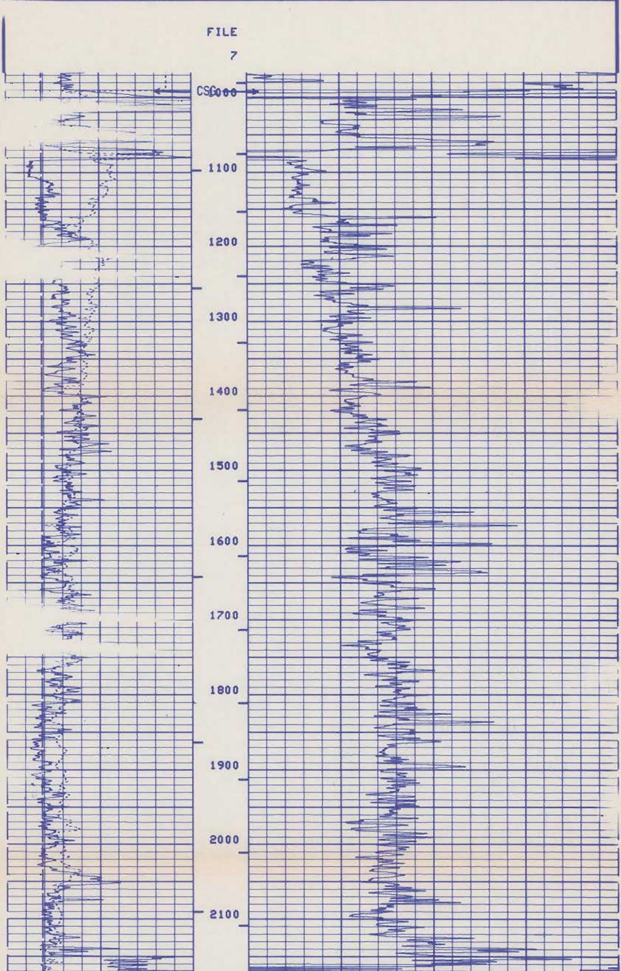
REMARKS:
WELL DRILLED BY REVERSE AIR, NO MUD RETURNS. VDL DARK FROM OMU, FAILURE - UNABLE TO REPAIR ON LOCATIO

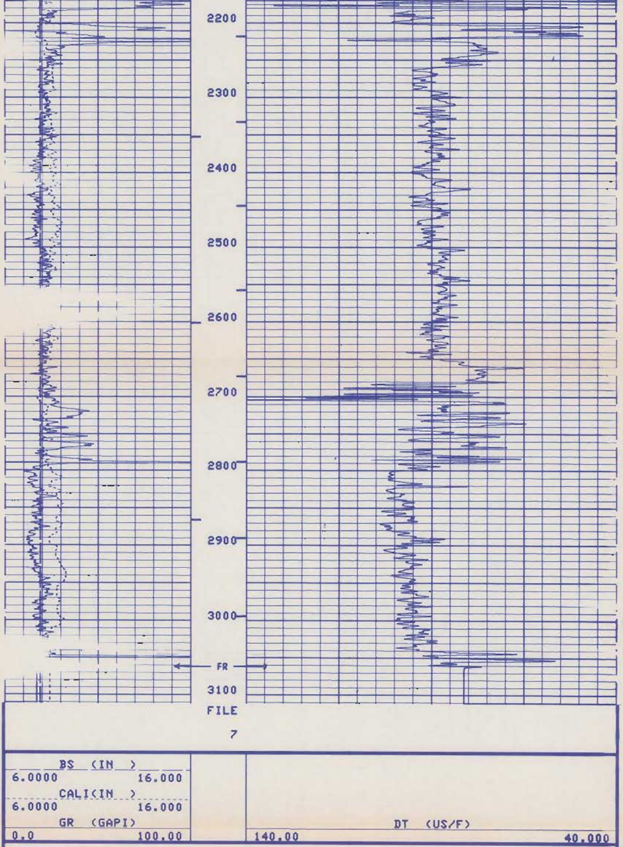
CALIBRATION DATA					
Speed - F.P.M.		-			
GR	BKG. CPS	-			
	Source CPS	-			
	Tc	-			

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.

BS (IN)
6.0000 16.000
CALI(IN)
6.0000 16.000
GR (GAPI)
0.0 100.00

DT (US/F)
140.00 40.000





SENSOR MEASURE POINT TO TENSION REFERENCE POINT

CBL	34.6	FEET	AMPL	34.6	FEET
TT3	30.8	FEET	TT4	29.8	FEET
TT1	33.6	FEET	TT2	34.6	FEET
GR	62.5	FEET	SRAT	32.1	FEET
FCNL	54.0	FEET	NCNL	54.0	FEET
ILD	6.9	FEET	CALI	66.4	FEET
ILM	3.3	FEET	SFL	3.9	FEET
SPAR	.0	FEET	SP	.0	FEET
NRAT	54.0	FEET	TENS	.0	FEET
NOIS	26.3	FEET			

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT

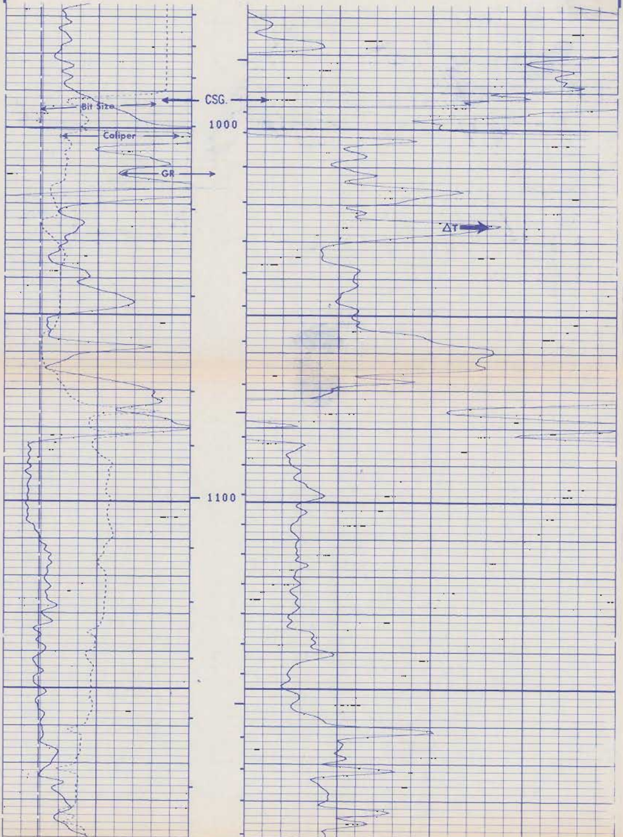
```
DDEL 200       US                 BS   7.87500   IN
DWCO 512                          DSIN 5         US
DTM  48.0000   US/F               CDTS 100.000
PSNR 2.35200                      DTF  189.000   US/F
MATR LIME                         HC   CALI
SBR  1.00000   OHMM               DSEC 6.80000   MMHO
FPHI SPHI                         MSEC 6.10000   MMHO
DO   0.0       F                  BHS  OPEN
PP   NORM
```

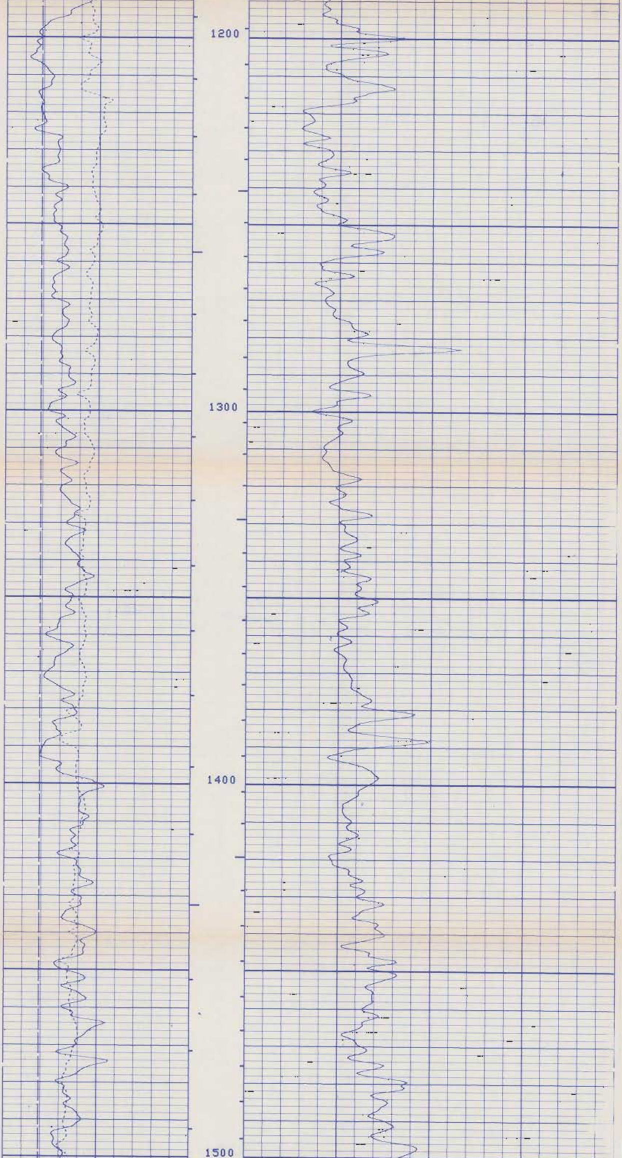
TAPE NOT MADE

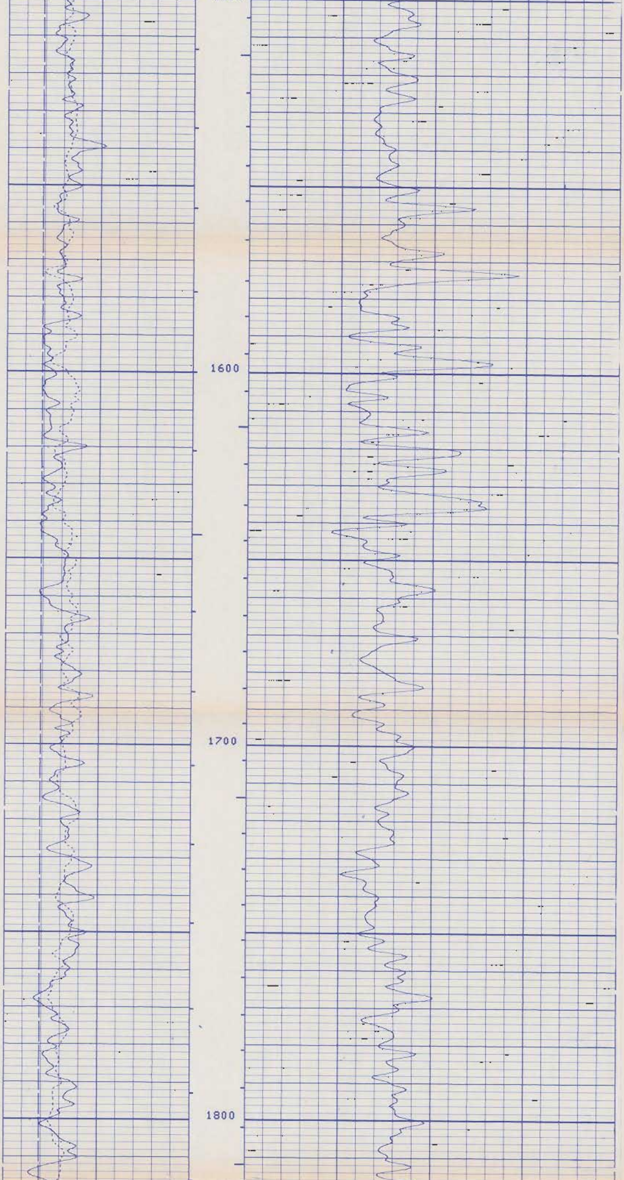
```
      BS   (IN  )
6.0000            16.000
      CALI(IN  )
6.0000            16.000
      GR   (GAPI)                        DT   (US/F)
0.0               100.00     140.00                          40.000
```

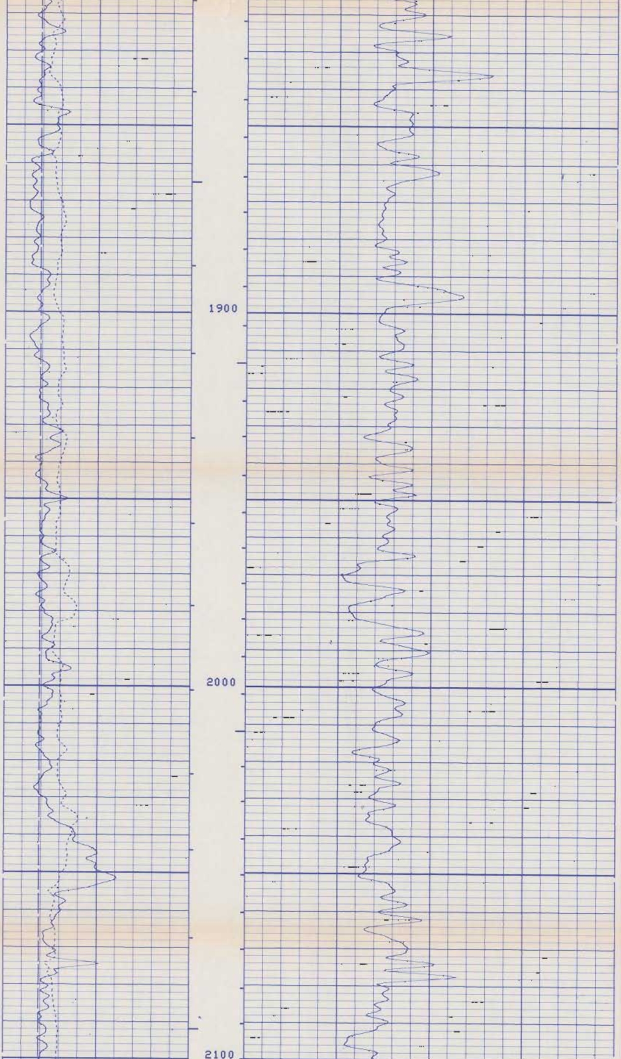
FILE

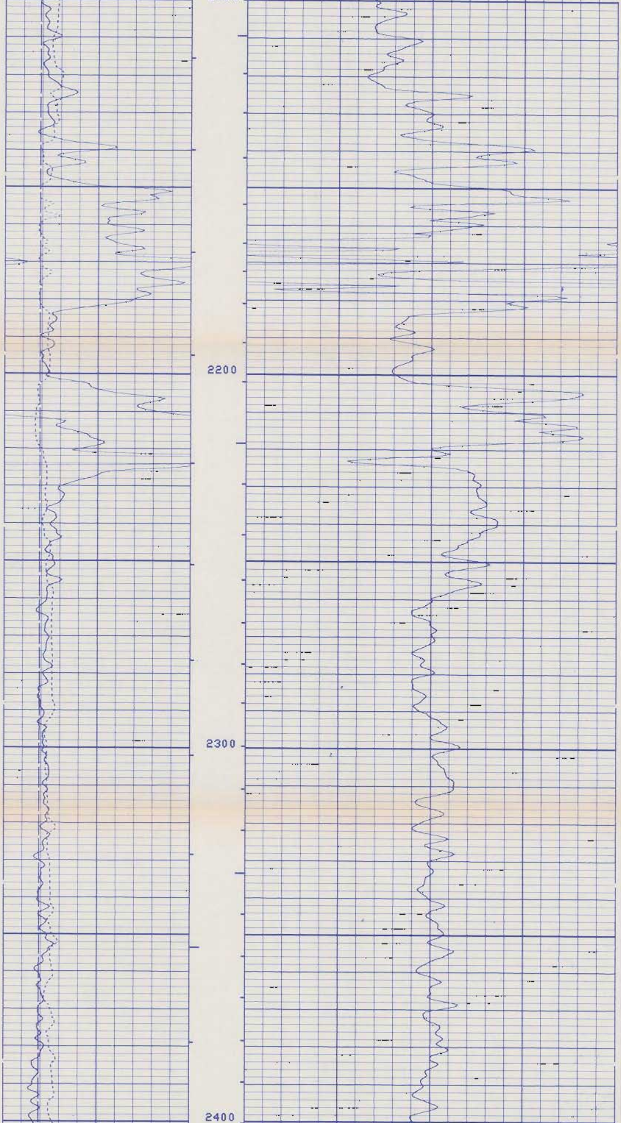
7

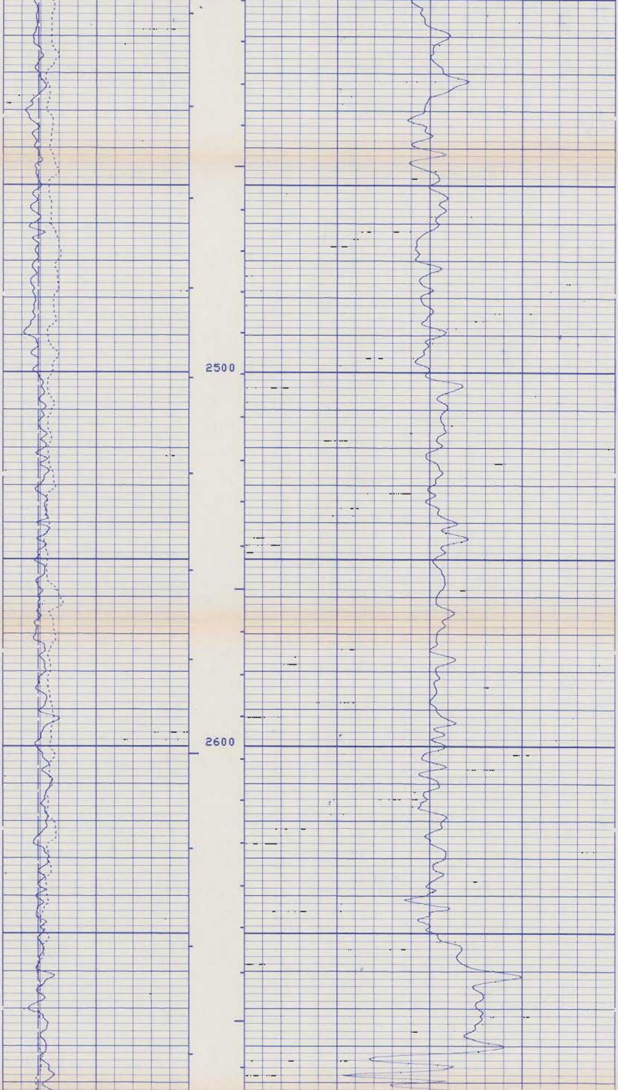


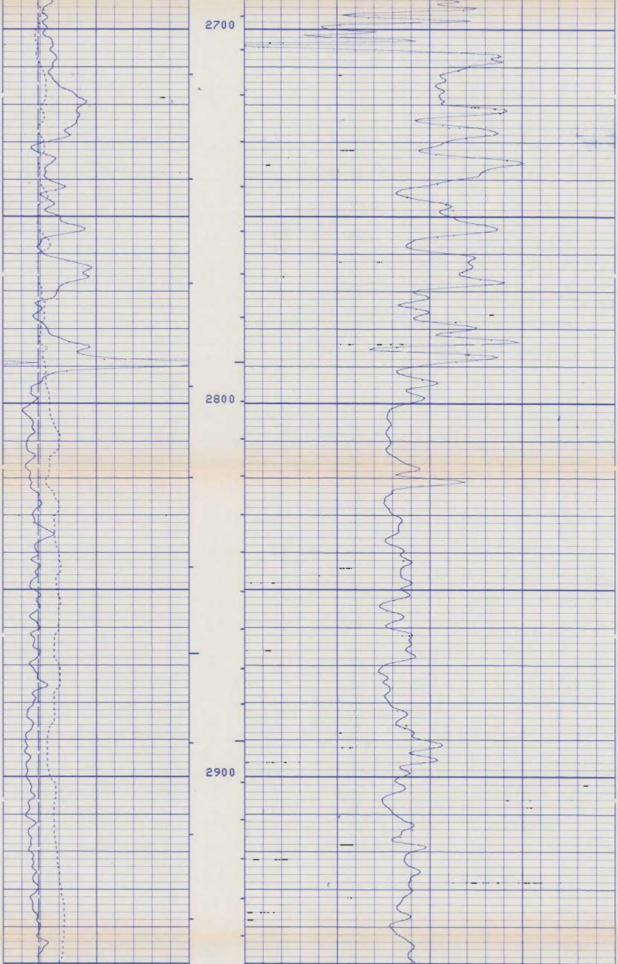


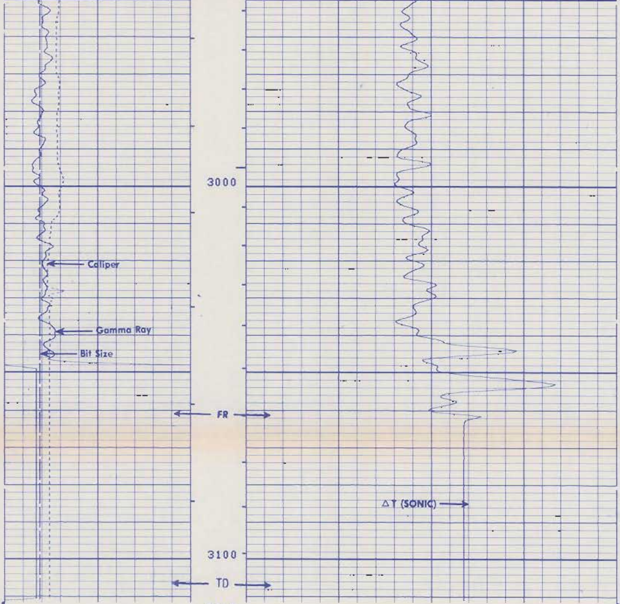












FILE

7

BS (IN)
6.0000 16.000
CALI(IN)
6.0000 16.000
GR (GAPI)
0.0 100.00

DT (US/F)
140.00 40.000

SENSOR MEASURE POINT TO TENSION REFERENCE POINT

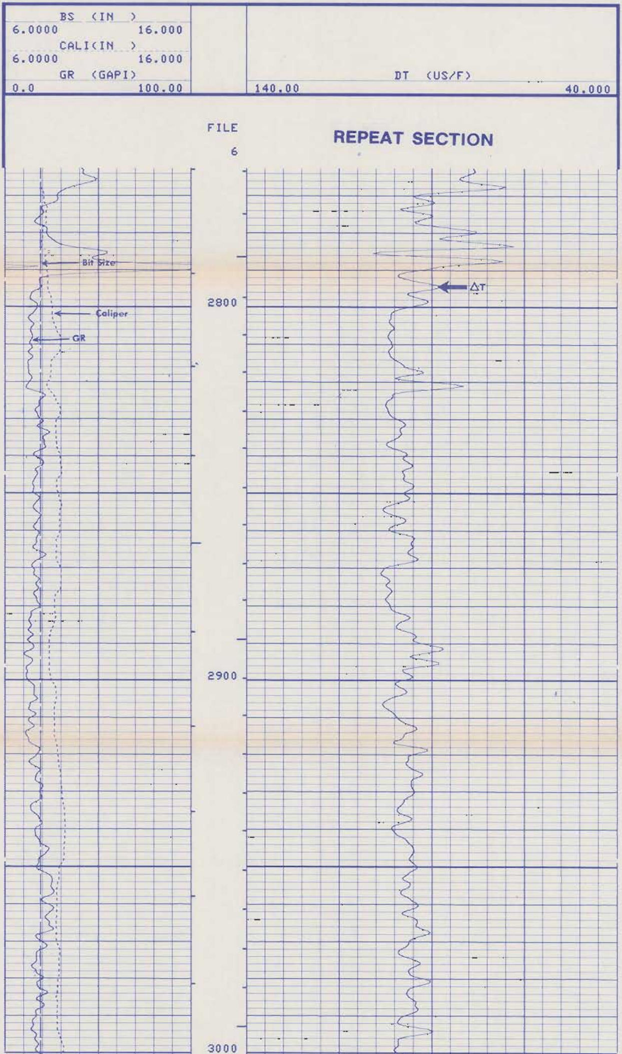
CBL	34.6	FEET	AMPL	34.6	FEET
TT3	30.8	FEET	TT4	29.8	FEET
TT1	33.6	FEET	TT2	34.6	FEET
GR	62.5	FEET	SRAT	32.1	FEET
FCNL	54.0	FEET	NCNL	54.0	FEET
ILD	6.9	FEET	CALI	66.4	FEET
ILM	3.3	FEET	SFL	3.9	FEET
SPAR	.0	FEET	SP	.0	FEET
NRAT	54.0	FEET	TENS	.0	FEET
NOIS	26.3	FEET			

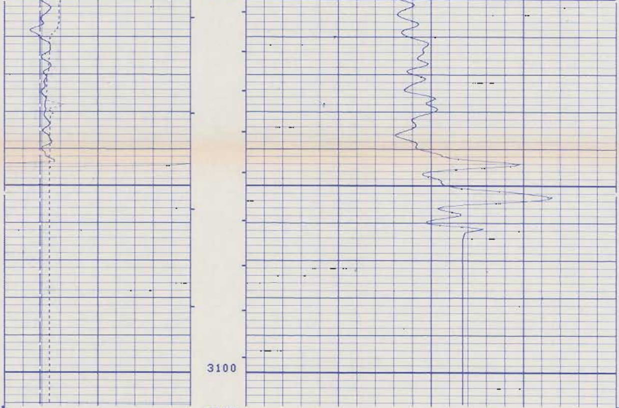
PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
DDEL	200	US	BS	7.87500	IN
DWCO	512		DSIN	5	US
DTM	48.0000	US/F	CDTS	100.000	
PSNR	2.35200		DTF	189.000	US/F
MATR	LIME		HC	CALI	
SBR	1.00000	OHMM	DSEC	6.80000	MMHO
FPHI	SPHI		MSEC	6.10000	MMHO
DO	0.0	F	BHS	OPEN	

REPEAT SECTION

FILE
6





FILE

6

REPEAT SECTION

BS (IN)
6.0000 16.000
CALI(IN)
6.0000 16.000
GR (GAPI)
0.0 100.00

DT (US/F)
140.00 40.000

SENSOR MEASURE POINT TO TENSION REFERENCE POINT

CBL	34.6	FEET	AMPL	34.6	FEET
TT3	30.8	FEET	TT4	29.8	FEET
TT1	33.6	FEET	TT2	34.6	FEET
GR	62.5	FEET	SRAT	32.1	FEET
FCNL	54.0	FEET	NCNL	54.0	FEET
ILD	6.9	FEET	CALI	66.4	FEET
ILM	3.3	FEET	SFL	3.9	FEET
SPAR	.0	FEET	SP	.0	FEET
NRAT	54.0	FEET	TENS	.0	FEET
NDIS	26.3	FEET			

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
DDEL	200	US	BS	7.87500	IN
DWCO	512		DSIN	5	US
DTM	48.0000	US/F	CDTS	100.000	
PSNR	2.35200		DTF	189.000	US/F
MATR	LIME		HC	CALI	
SBR	1.00000	OHMM	DSEC	6.80000	MMHO
FPHI	SPHI		MSEC	6.10000	MMHO
DO	0.0	F	BHS	OPEN	