P 1127

Schlumberger

DUAL INDUCTION SFL

CSU Field Log

021-89 #203

COMPANY: SEE-LAND DRILLING COMPANY IMMOKALEE S.W.

WELL: BARFIELD #28-4

FIELD: WILDCAT
COUNTY: COLLIER
STATE: FLORIDA

C-1130
SENWNESE

LOCATION: 725' FEL, 2075' FSL

SEC: 28 TWP: 47S RGE: 29E

26 21 30 81 25 08
X 362823 Y 736123

PERMANENT DATUM: GL
ELEV. OF PERM. DATUM:
LOG MEASURED FROM: RKB
22.1 ' ABOVE PERM. DATUM
DRLG. MEASURED FROM: RKB

ELEVATIONS-
KB:
DF:
GL: +24.00'

OTHER SERVICES-
DIL
FDC-CNL-GR

PROGRAM
TAPE NO:
24.2
SERVICE
ORDER NO:
391835

DATE: 6 JAN 84
RUN NO: 1

DEPTH-DRILLER: 1842.0 '
DEPTH-LOGGER: 1842.0 '
BTM. LOG INTERVAL: 1836.0 '
TOP LOG INTERVAL: 246.0 '

CASING-DRILLER: 246 '
CASING-LOGGER: 246 '
CASING: 20

BIT SIZE: 17.5
DEPTH: 1842 '

TYPE FLUID IN HOLE: SPUD MUD
DENSITY: 8.7 LB/G
VISCOSITY: 40.0 S
PH: 10.5
FLUID LOSS: 20.0 C3
SOURCE OF SAMPLE: TANK
RM: 4.670 OHMM AT 74.0 DEGF
RMF: 4.990 OHMM AT 74.0 DEGF
RMC: 5.700 OHMM AT 74.0 DEGF

SOURCE RMF/RMC: MEASURE/MEASURE
RM AT BHT: 3.940 OHMM AT 89.0 DEGF
RMF AT BHT: 4.210 OHMM AT 89.0 DEGF
RMC AT BHT: 4.809 OHMM AT 89.0 DEGF

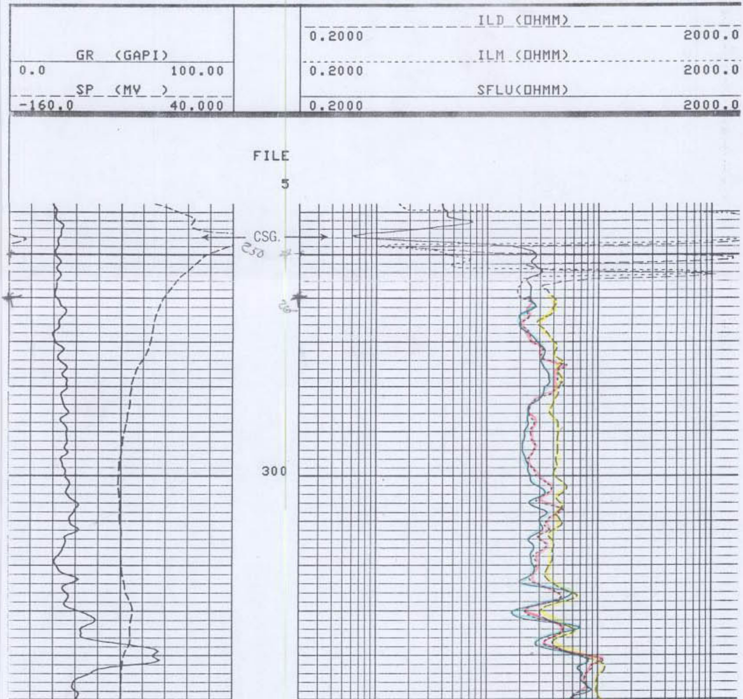
TIME CIRC. STOPPED: 1900
TIME LOGGER ON BTM.: 2200

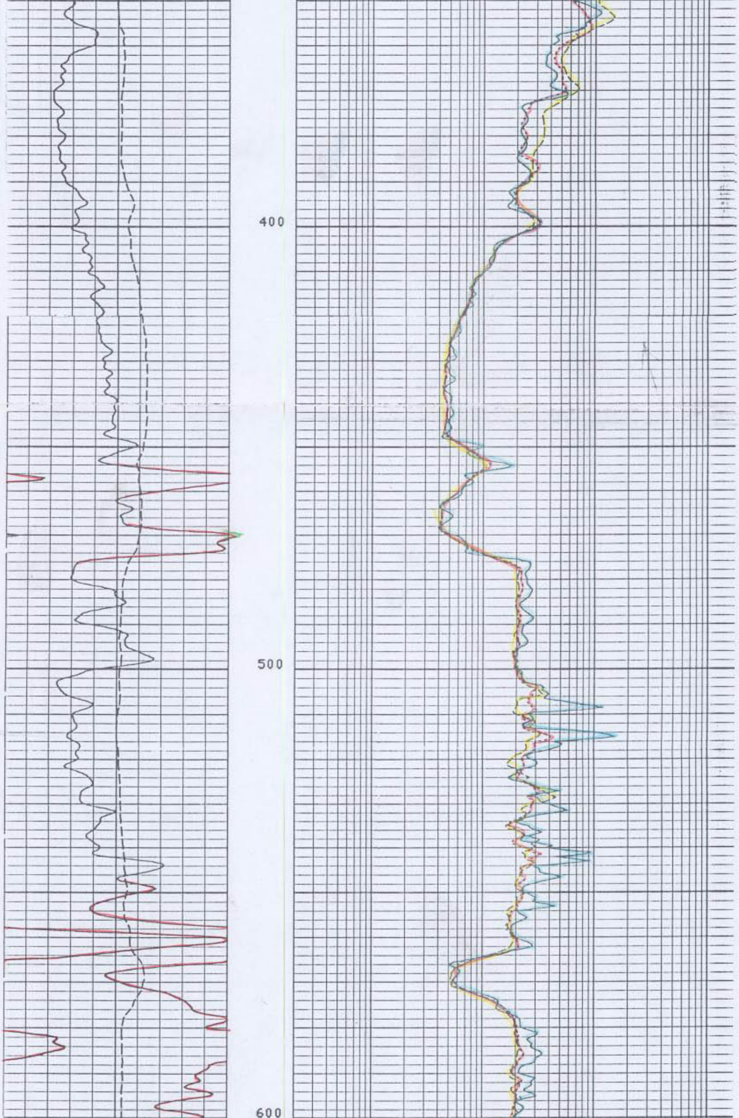
MAX. REC. TEMP: 89.0 DEGF

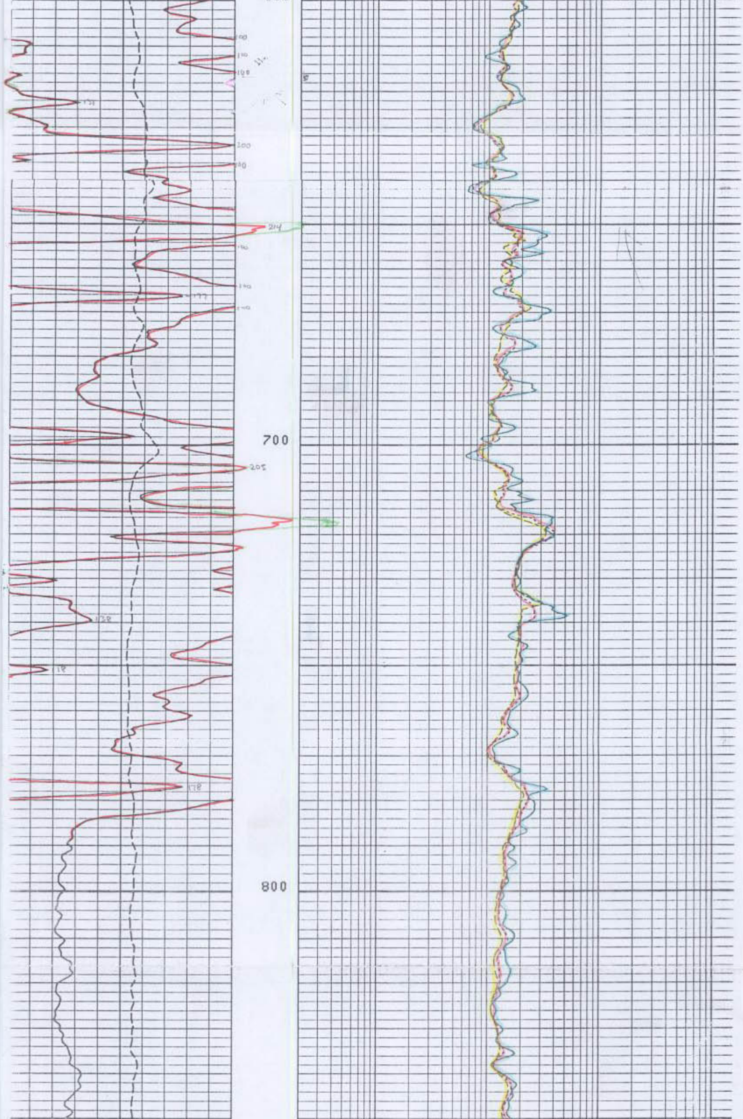
LOGGING UNIT NO: 8193
LOGGING UNIT LOC: FT MYERS
RECORDED BY: BUCHEL
WITNESSED BY: JONES

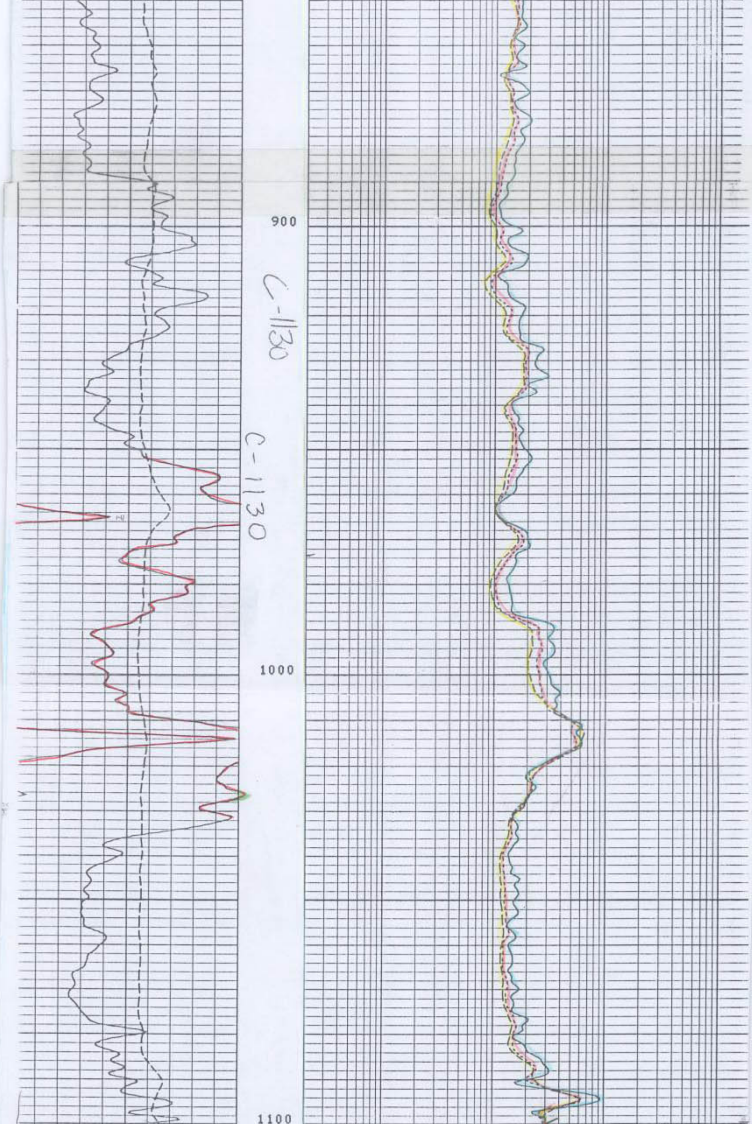
REMARKS:

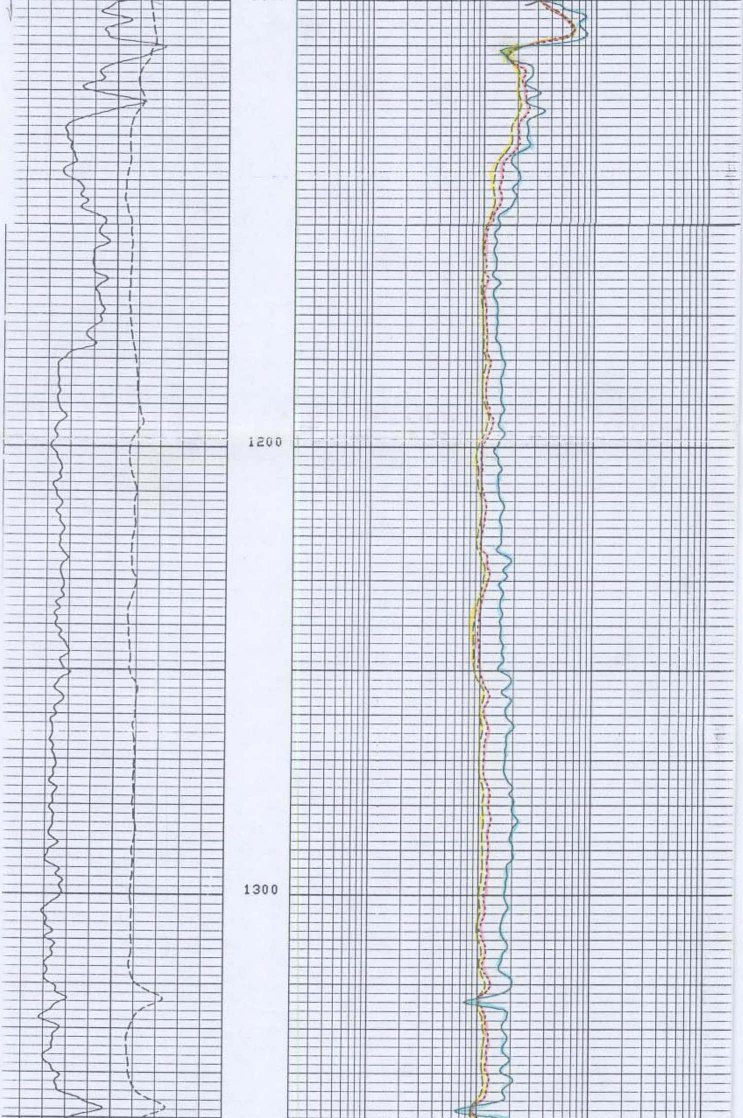
MATR	LIME		HC	CALI	
MDEN	2.71000	G/C3	FD	1.00000	G/C3
BHF	WATE		FDCC	ALLO	
SBR	1.00000	OHMM	DSEC	4.40000	MMHO
FPHI	PHIX		MSEC	5.40000	MMHO
DO	0.0	F	BHS	OPEN	

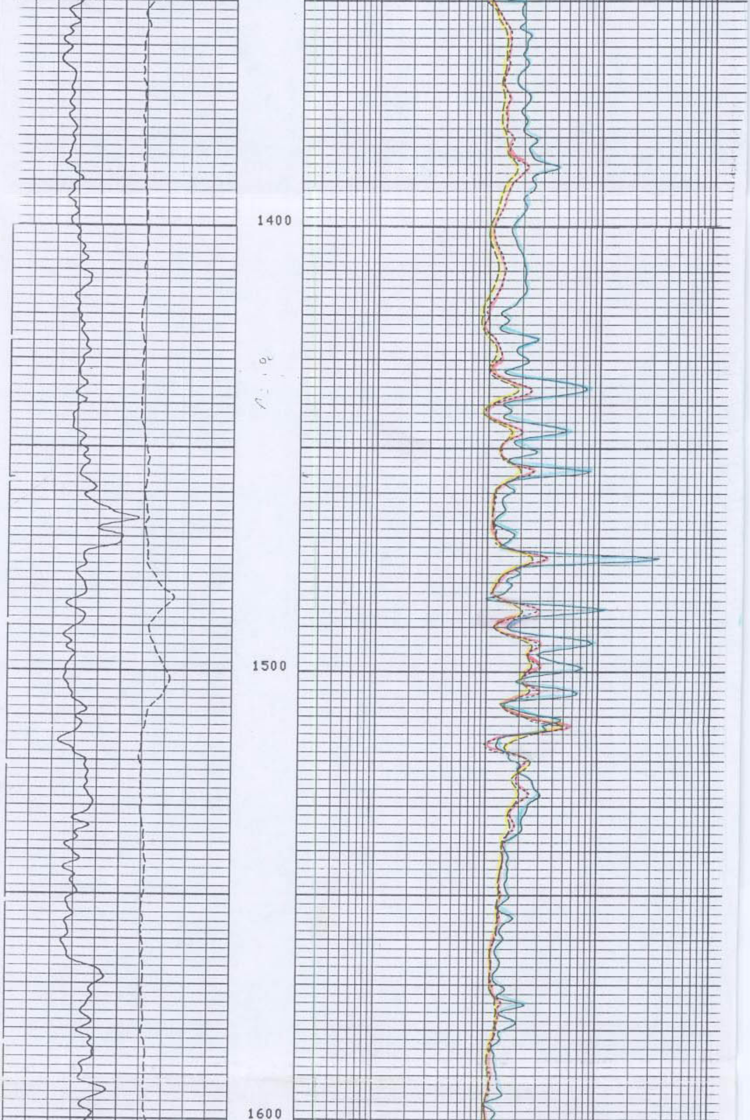


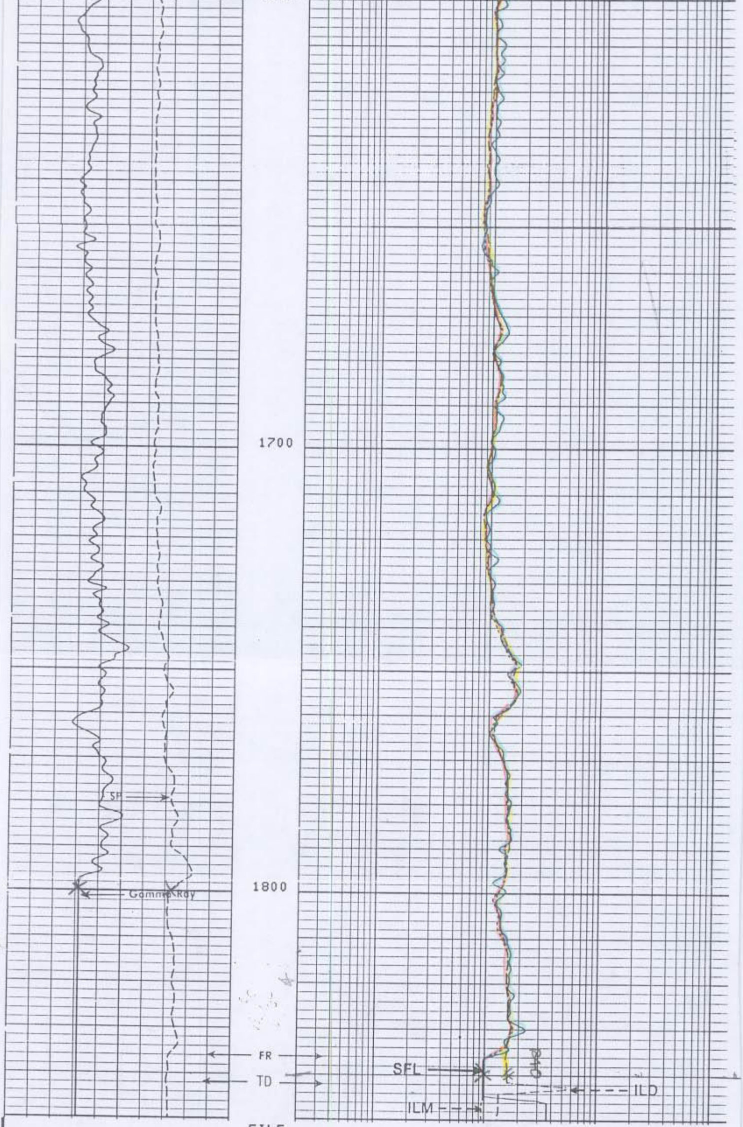












FILE

5

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

ILD (OHMM)
0.2000 2000.
ILM (OHMM)
0.2000 2000.
SFLU(OHMM)
0.2000 2000.

SENSOR MEASURE POINT TO TENSION REFERENCE POINT

NCNL 44.4 FEET GR 52.9 FEET

021-89

1127

Schlumberger

FDC-CNL-GR

CSU Field Log

COMPANY: SEE-LAND DRILLING COMPANY

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STATE: FLORIDA

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ELEV. OF PERM. DATUM:
LOG MEASURED FROM: RKB
22.1 . ABOVE PERM. DATUM
DRLG. MEASURED FROM: RKB

ELEVATIONS-
KB: 45.5
DF: 44.0
GL: 23.4

OTHER SERVICES-
DIL
FDC-CNL-GR

DATE: 6 JAN 84
RUN NO: 1

PROGRAM TAPE NO:
24.2
SERVICE ORDER NO:
391835

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DEPTH-LOGGER: 1842.0 .
BTM. LOG INTERVAL: 1810.0 .
TOP LOG INTERVAL: 246.0 .

CASING-DRILLER: 246 .
CASING-LOGGER: 246 .
CASING: 20

BIT SIZE: 17.5
DEPTH: 1842 .

FLORIDA GEOLOGICAL SURVEY
2295 VICTORIA AVENUE, SUITE 179
FT. MYERS, FLORIDA 33901

TYPE FLUID IN HOLE: SPUD MUD
DENSITY: 8.7 LB/G
VISCOSITY: 40.0 S
PH: 10.5
FLUID LOSS: 20.0 C3
SOURCE OF SAMPLE: TANK
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TIME CIRC. STOPPED: 1900
TIME LOGGER ON BTM.: 2200

MAX. REC. TEMP: 89.0 DEGF

LOGGING UNIT NO: 8193
LOGGING UNIT LOC: FT MYERS
RECORDED BY: BUCHEL
WITNESSED BY: JONES

REMARKS:

RAN BOW SPRING, & TWO-1.5INCH FINS
RAN DIL & FDC-CNL-GR IN COMBO
MATRIX=LIME, MATRIX DENSITY=2.71

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EQUIPMENT NUMBERS-

DIS 545          DIC 1153          PGS 83           PDH 405
PGC 416          GSR 3345          CNC 652          CNB 301
NSR A0501        SGT 2292
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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.

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                         FILE

                     .      8



                 AFTER SURVEY TOOL CHECK SUMMARY


  PERFORMED:      84/01/06
  PROGRAM FILE: ISN   (VERSION    24.2    35/01/35)

DITD                         TOOL - CHECK

                     ZERO                               PLUS
              BEFORE       AFTER           BEFORE       AFTER      UNITS
   ILD          0.0          0.1           499.8        497.8      MMHO
   ILM          0.0          0.1           500.0        497.5      MMHO
   SFL          0.0          0.1           500.0        501.7      MMHO

ILD  SONDE ERROR CORRECTION :            4.4 MMHO
ILM  SONDE ERROR CORRECTION :            5.4 MMHO

CNTA                         TOOL  CHECK

                       JIG
                BEFORE       AFTER
  NRAT          2.213        2.214

  POROSITY CHANGE  (LIME):  0.000

PGTK                         TOOL  CHECK

                       JIG
                BEFORE       AFTER        UNITS
  FFDC           321          321          CPS
  NFDC           524          522          CPS

  RHOB  CHANGE (WATER): -0.002 G/C3
                         FILE

                            8
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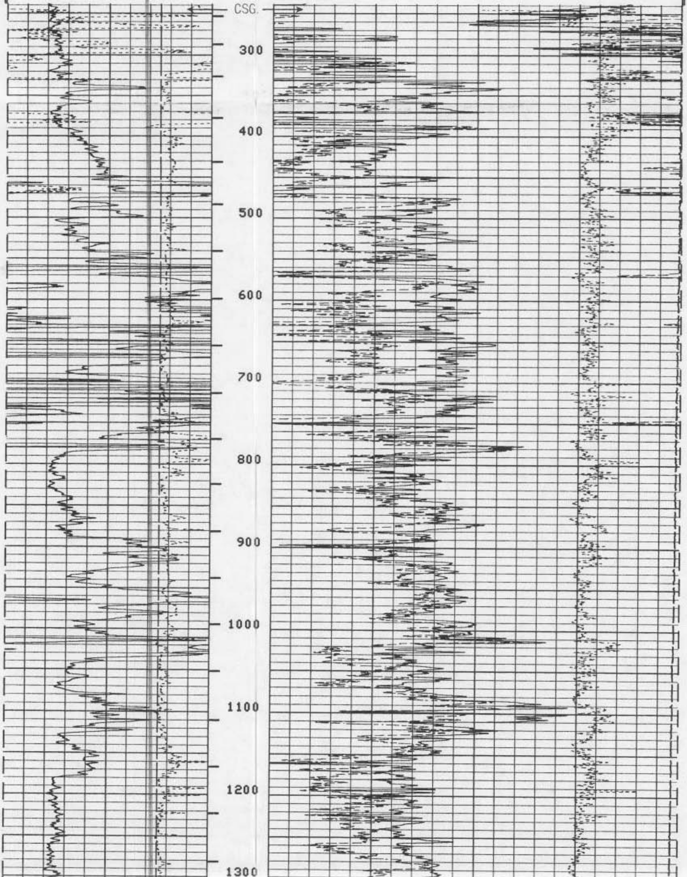
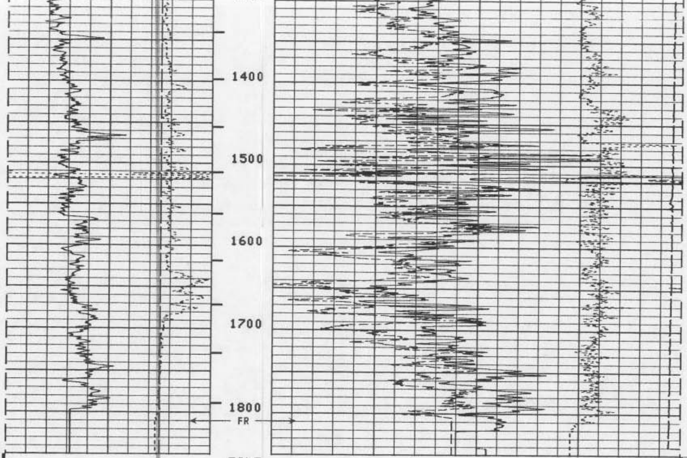
                                                                  DRHO(G/C3)
                                                          -0.250             0.2500
       CALI(IN  )                                                  TENS(LB  )
10.000            20.000                                  10000.             1000.0
       BS   (IN  )                                     DPHI(     )
10.000            20.000           0.6000                                       0.0
       GR   (GAPI)                                     NPHI(     )
0.0               100.00           0.6000                                       0.0
```

FILE

5





FILE

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CALI(IN)		DPHI( )		DRHO(G/C3)	
10.000	20.000	0.6000	0.0	-0.250	0.2500
BS (IN)		NPHI( )		TENS(LB)	
10.000	20.000	0.6000	0.0	10000.	1000.0
GR (GAPI)					
0.0	100.00				

SENSOR MEASURE POINT TO TENSION REFERENCE POINT

NCNL	44.4	FEET	GR	52.9	FEET
FFDC	29.1	FEET	FCNL	44.4	FEET
CALI	29.1	FEET	NFDC	29.1	FEET
SFL	3.9	FEET	ILD	6.9	FEET
SP	.0	FEET	ILM	3.3	FEET
TENS	.0	FEET	SPAR	.0	FEET
NRAT	44.4	FEET			

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
PSNR	2.33200		BS	17.5000	IN
MATR	LIME		HC	CALI	
MDEN	2.71000	G/C3	FD	1.00000	G/C3
BHF	WATE		FDCC	ALLO	
SBR	1.00000	OHMM	DSEC	4.40000	MMHO
FPHI	PHIX		MSEC	5.40000	MMHO
DO	0.0	F	BHS	OPEN	
PP	NORM				

TAPE NOT MADE

DRHO(G/C3)
-0.250 0.2500

TENS(LB)
10000. 1000.0

CALI(IN)
10.000 20.000

BS (IN)
10.000 20.000

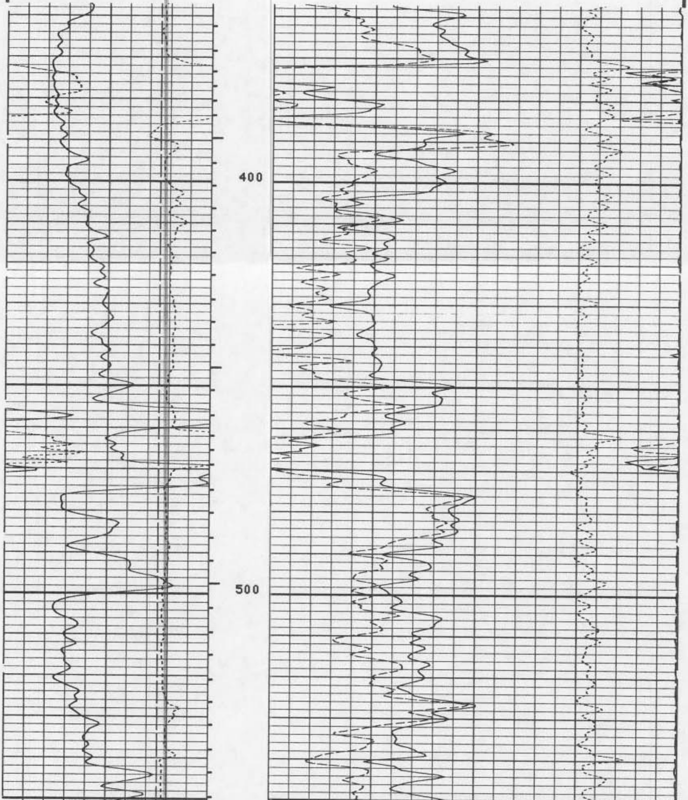
GR (GAPI)
0.0 100.00

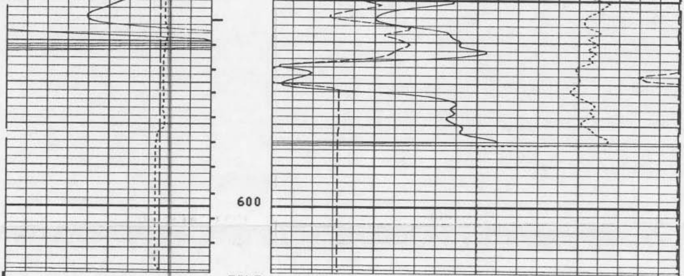
DPHI( )
0.6000 0.0

NPHI( )
0.6000 0.0

FILE
6

REPEAT SECTION





FILE

6

REPEAT SECTION

DRHO(G/C3)
-0.250 0.2500
TENS(LB)
10000. 1000.0

CALI(IN)
10.000 20.000
BS (IN)
10.000 20.000
GR (GAPI)
0.0 100.00

DPHI( )
0.6000 0.0
NPHI( )
0.6000 0.0

SENSOR MEASURE POINT TO TENSION REFERENCE POINT

NCNL	44.4	FEET	GR	52.9	FEET
FFDC	29.1	FEET	FCNL	44.4	FEET
CALI	29.1	FEET	NFDC	29.1	FEET
SFL	3.9	FEET	ILD	6.9	FEET
SP	.0	FEET	ILM	3.3	FEET
TENS	.0	FEET	SPAR	.0	FEET
NRAT	44.4	FEET			

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
PSNR	2.33200		BS	17.5000	IN
MATR	LIME		HC	CALI	
MDEN	2.71000	G/C3	FD	1.00000	G/C3
BHF	WATE		FDCC	ALLO	
SBR	1.00000	OHMM	DSEC	4.40000	MMHO
FPHI	PHIX		MSEC	5.40000	MMHO
DO	0.0	F	BHS	OPEN	
PP	NORM				

TAPE NOT MADE

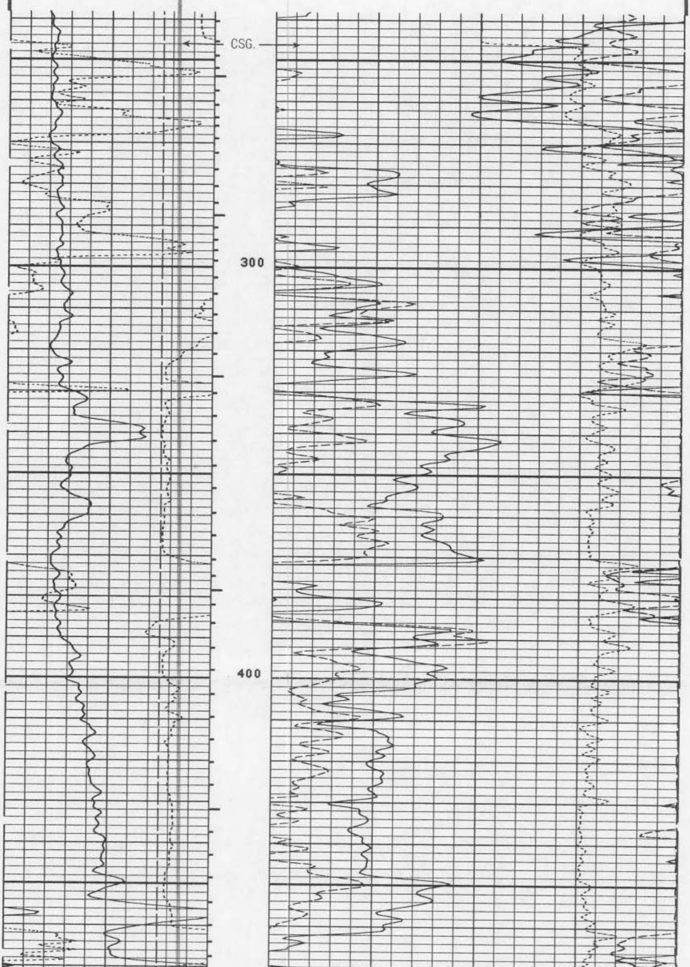
DRHO(G/C3)
-0.250 0.2500
TENS(LB)
10000. 1000.0

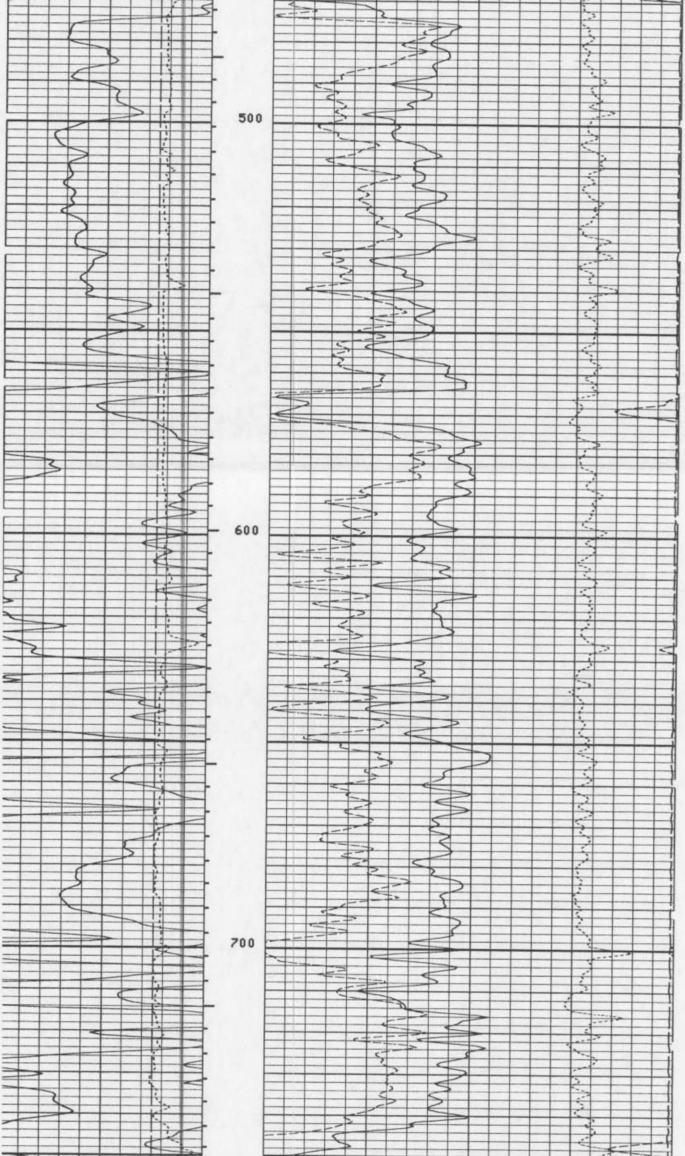
CALI(IN)
10.000 20.000
BS (IN)
10.000 20.000
GR (GAPI)
0.0 100.00

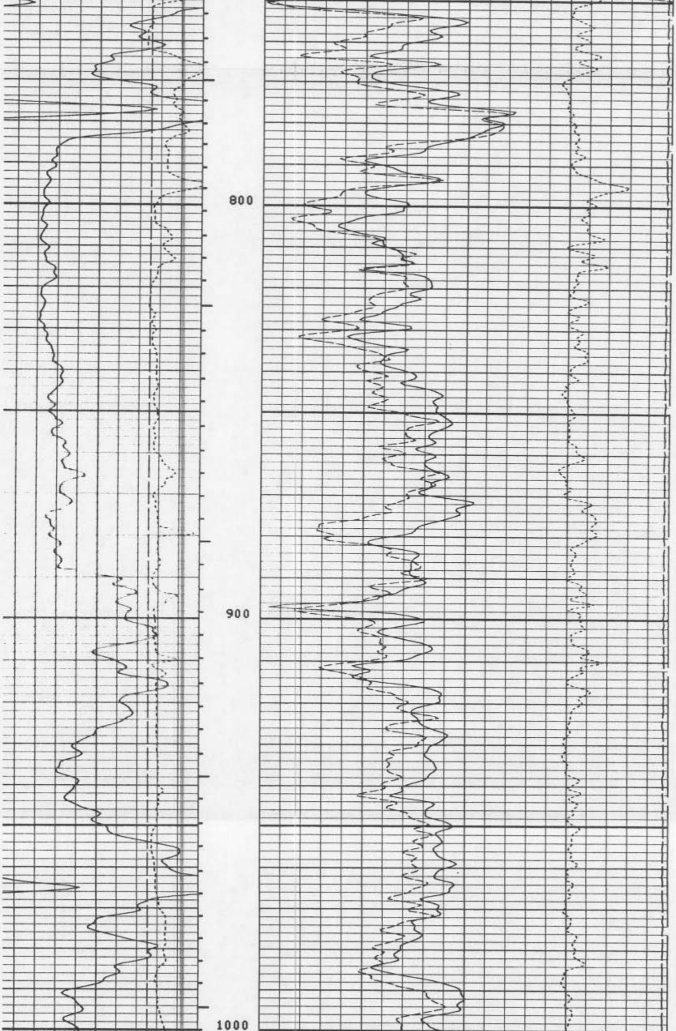
DPHI( )
0.6000 0.0
NPHI( )
0.6000 0.0

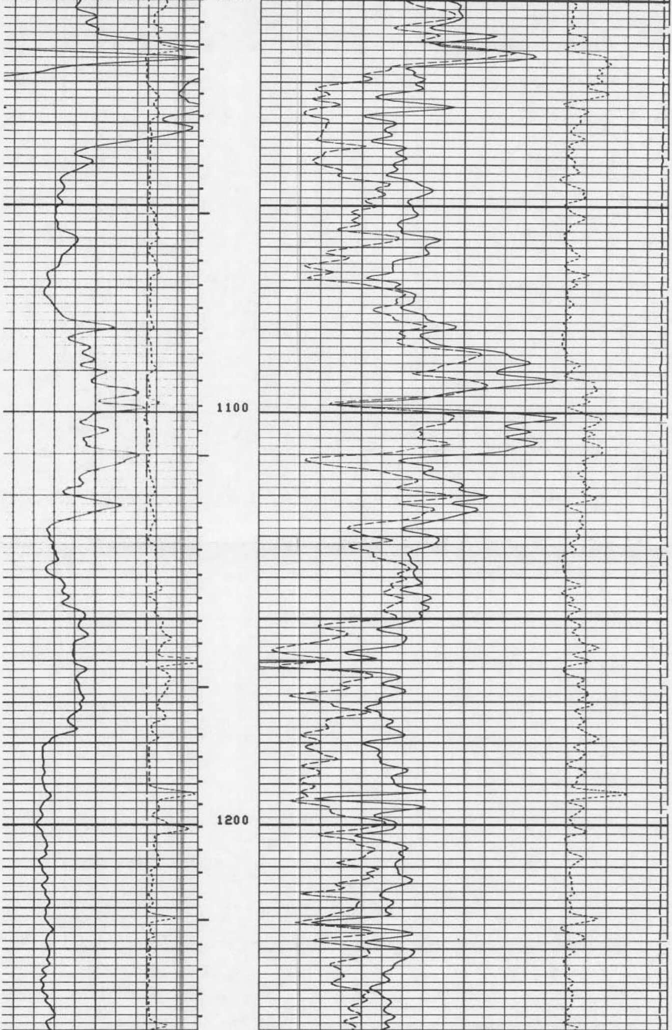
FILE

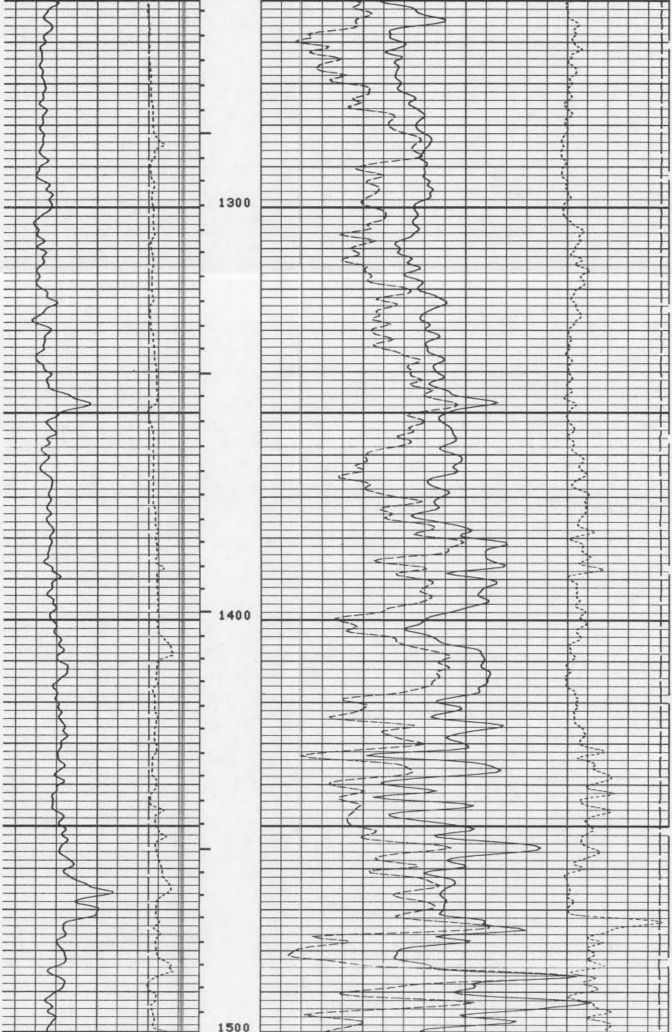
5

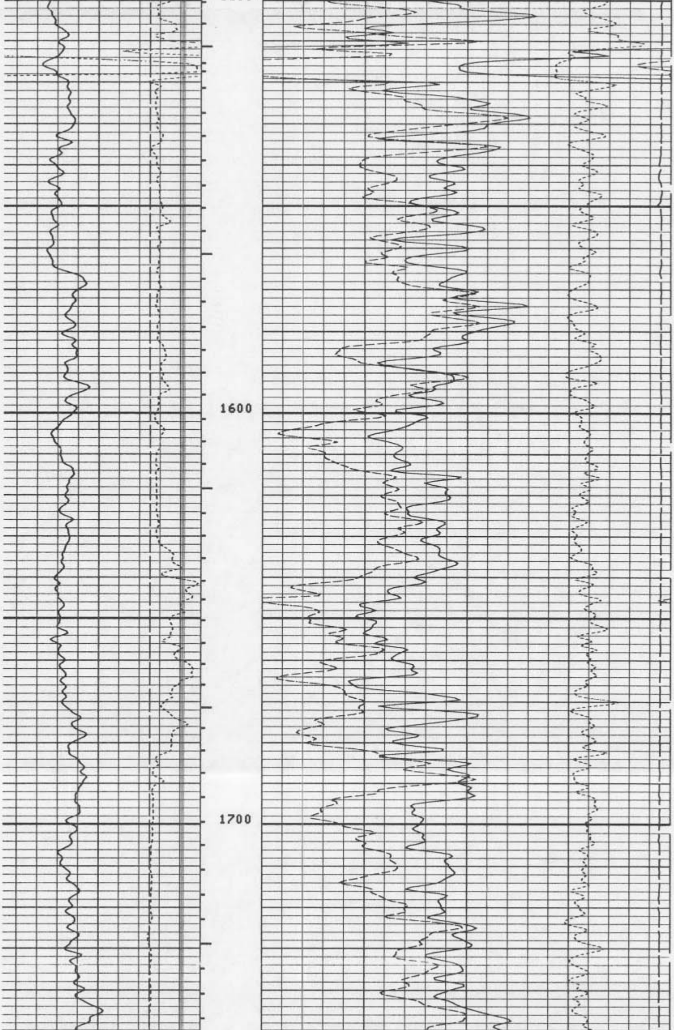


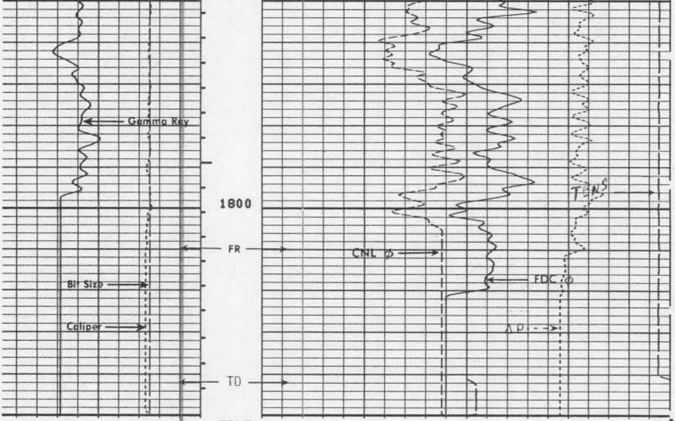












FILE

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Curve	Left	Right
DRHO(G/C3)	-0.250	0.2500
TENS(LB)	10000.	1000.0
CALI(IN)	10.000	20.000
BS (IN)	10.000	20.000
GR (GAPI)	0.0	100.00
DPHI( )	0.6000	0.0
NPHI( )	0.6000	0.0

SENSOR MEASURE POINT TO TENSION REFERENCE POINT

NCNL	44.4	FEET	GR	52.9	FEET
FFDC	29.1	FEET	FCNL	44.4	FEET
CALI	29.1	FEET	NFDC	29.1	FEET
SFL	3.9	FEET	ILD	6.9	FEET
SP	.0	FEET	ILM	3.3	FEET
TENS	.0	FEET	SPAR	.0	FEET
NRAT	44.4	FEET			

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
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MATR	LIME		HC	CALI	
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BHF	WATE		FDCC	ALLO	
SBR	1.00000	OHMM	DSEC	4.40000	MMHO
FPHI	PHIX		MSEC	5.40000	MMHO
DO	0.0	F	BHS	OPEN	
PP	NORM				

TAPE NOT MADE

```
              BEFORE SURVEY CALIBRATION SUMMARY

  PERFORMED:      84/01/06
  PROGRAM FILE: ISN    (VERSION    24.2    35/01/35)

DITD              ELECTRONICS CALIBRATION SUMMARY

          MEASURED                      CALIBRATED
        ZERO    PLUS                  ZERO      PLUS          UNITS
   ILD   0.1   526.2                  0.0      499.8           MMHO
   ILM   0.0   515.1                  0.0      500.0           MMHO
   SFL  -0.2   503.7                  0.0      500.0           MMHO

ILD  SONDE ERROR CORRECTION :        4.4 MMHO
ILM  SONDE ERROR CORRECTION :        5.4 MMHO

SGTE              DETECTOR CALIBRATION SUMMARY

          MEASURED
        BKGD    JIG        CALIBRATED           UNITS
   GR    51     215           165               GAPI

CNTA              DETECTOR CALIBRATION SUMMARY

            TANK                          JIG
       INPUT   CALIBRATED          MEASURED   CALIBRATED
  NRAT 2.33200  2.157               2.392       2.213

PGTK              DETECTOR CALIBRATION SUMMARY

             BLOCK                        JIG
       INPUT  CALIBRATED           MEASURED   CALIBRATED    UNITS
  FFDC  470      336                 447         321
  NFDC  796      526                 792         524

PGTK              CALIPER CALIBRATION SUMMARY

         MEASURED                      CALIBRATED
       SMALL    LARGE                SMALL      LARGE         UNITS
  CALI  12.1    16.7                 12.0       19.0           IN
                  FILE

                     2


              SHOP SUMMARY

  PERFORMED:      83/12/28
  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  -4.2    495.9     0.0      500.0        0.0        499.7  MMHO
   ILM  -5.6    488.8     0.0      500.0        0.0        502.7  MMHO
ILD  SONDE ERROR CORRECTION :        4.4    MMHO
ILM  SONDE ERROR CORRECTION :        5.4    MMHO

                     (IS:545  , IC:1153 )

CNTA              DETECTOR CALIBRATION SUMMARY

            TANK                        JIG
     MEASURED  CALIBRATED        MEASURED   CALIBRATED

  NRAT   2.332      2.158          2.375        2.198

                    (CNC:652  , CNB:301  )

PGTK              DETECTOR CALIBRATION SUMMARY

            BLOCK                       JIG
     MEASURED  CALIBRATED       MEASURED   CALIBRATED      UNITS

  FFDC  470         337            447          320           CPS
  NFDC  796         528            788          522           CPS
```

FLORIDA GEOLOGICAL SURVEY
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FT. MYERS, FLORIDA 33901