ATLAS WIRELINE SERVICES

DUAL INDUCTION FOCUSED LOG

FILE NO.

API NO.

5" = 100'

COMPANY ARCO OIL & GAS COMPANY
WELL CC 44-27-65
FIELD MIST
COUNTY COLUMBIA STATE OR.

LOCATION:
376.2' FEL & 409.0' FSL OF
SE CORNER OF
SEC27 TWP6N RGE5W

OTHER SERVICES
BHC/AL
CDLC/CN/GR

PERMANENT DATUM GL ELEV. 960.6'
LOGGING MEASURED FROM KB 10' FT. ABOVE P.D.
DRILLING MEASURED FROM KB

ELEVATIONS
KB 970.1'
DF -
GL 960.6'

DATE	7/4/88				
RUN	1				
SERVICE ORDER	158843				
DEPTH-DRILLER	2150'				
DEPTH-LOGGER	2144'				
BOTTOM LOGGED INTERVAL	2142'				
TOP LOGGED INTERVAL	454'				
CASING - DRILLER	9 5/8"	@ 461'	@	@	@
CASING - LOGGER	454'				
BIT SIZE	8.5"				
TYPE FLUID IN HOLE	EZ MUD				
DENSITY / VISCOSITY	10.0	42			
PH / FLUID LOSS	9.0	5.0			
SOURCE OF SAMPLE	FLOWLINE				
RM AT MEAS. TEMP.	2.69	@ 83 F	@	@	@
RMF AT MEAS. TEMP.	3.32	@ 83 F	@	@	@
RMC AT MEAS. TEMP.	3.61	@ 83 F	@	@	@
SOURCE OF RMF / RMC	MEAS	MEAS			
RM AT BHT	2.15	@ 106 F	@	@	@
TIME SINCE CIRCULATION	2 HRS				
MAX. REC. TEMP. DEG. F	106 F				
EQUIP. NO. / LOC.	HL 6406	SAC			
RECORDED BY	B. WELCH				
WITNESSED BY	MR. WYDRINSKI, JACKSON				

FOLD HERE

IN MAKING INTERPRETATIONS OF LOGS OUR EMPLOYEES WILL GIVE CUSTOMER THE BENEFIT OF THEIR BEST JUDGEMENT, BUT SINCE ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS, WE CANNOT, AND WE DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATION. WE SHALL NOT BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COST, DAMAGES, OR EXPENSES WHATSOEVER INCURRED OR SUSTAINED BY THE CUSTOMER RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR EMPLOYEES.

Western Atlas International
A Litton/Dresser Company

ATLAS WIRELINE SERVICES

REMARKS RUN (1)

EQUIPMENT DATA

RUN	TRIP	TOOL	SERIAL NO.	SERIES NO.	POSITION
1	1	DIFL	72831	1503	1.5 SO
1	1	AC	VENT NO. 3	1603	CENT
1	1	GR	78616	1309	CENT
1	1	CAL	79090	4209	VAR

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CURVE DELAYS

CURVE   DELAY  UNITS
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 CFOC      0  FT,IN
 CILM    6,0  FT,IN
 CILD    9.3  FT,IN
 SP      9.3  FT,IN
 GR     42.9  FT,IN
 CAL    53.3  FT,IN
 ACQ    26.6  FT,IN
 AC     26.6  FT,IN
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                 PARAMETERS

  NAME     DEPTH INTERVAL    VALUE      UNITS
--------   --------------  ----------  -------
A           2148 TO   441       0.000

M           2148 TO   441       0.000

O.D.        2148 TO   441       3.500  INCH

DEL-T F     2148 TO   441       0.000  MICS/FT

DEL-T M     2148 TO   441  **********  MICS/FT

DEL-T S     2148 TO   441       0.000  MICS/FT
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          DISPLAY SCALE CHANGES

              *** NONE ***
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COMPANY:    ARCO OIL & GAS COMPANY                                RUN:  1

WELL NAME:  CC 44-27-65                                           TRIP: 1

SERVICE:    KC214N        FILE:   2        DATE:  07/04/88         TIME:  12:25:21

REVISION:   FSYSAL REV GS08 VER 2                                 MODE: RECORD
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                                   TT(MS)
                                   |--|
                                   30 0
          BIT(INCH)                                    RILD(OHMM)
|— — — — — — — — — — — —|      |— — — — — — — — — — — — — — — — — — — — — — —|
 6                       16      0.2                                       2000
                        VOL(CUFT)                      RILM(OHMM)
                          |--|   |- - - - - - - - - - - - - - - - - - - - - - -|
                          0 30   0.2                                       2000
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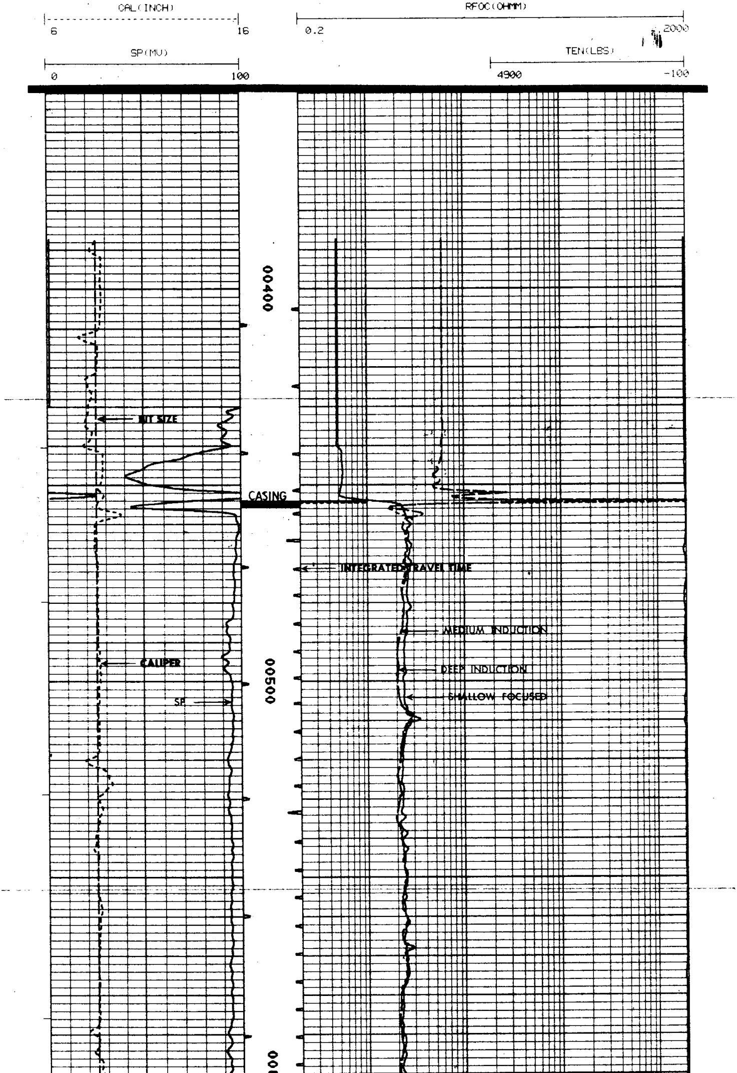
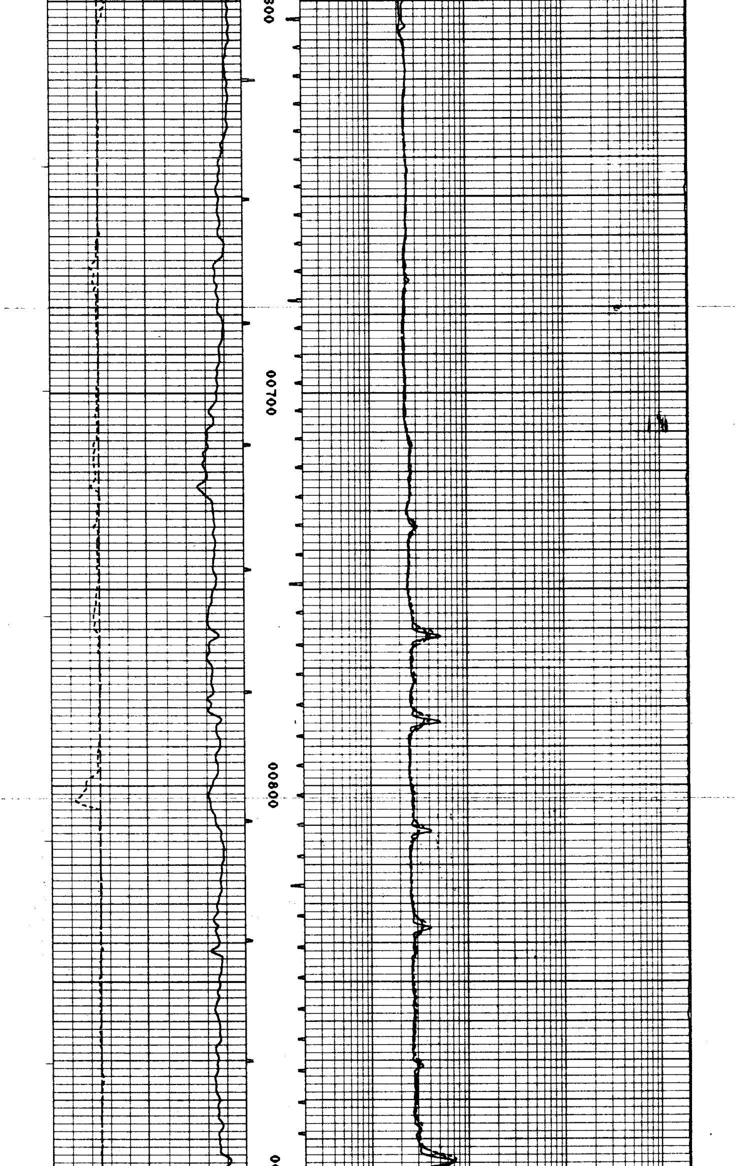
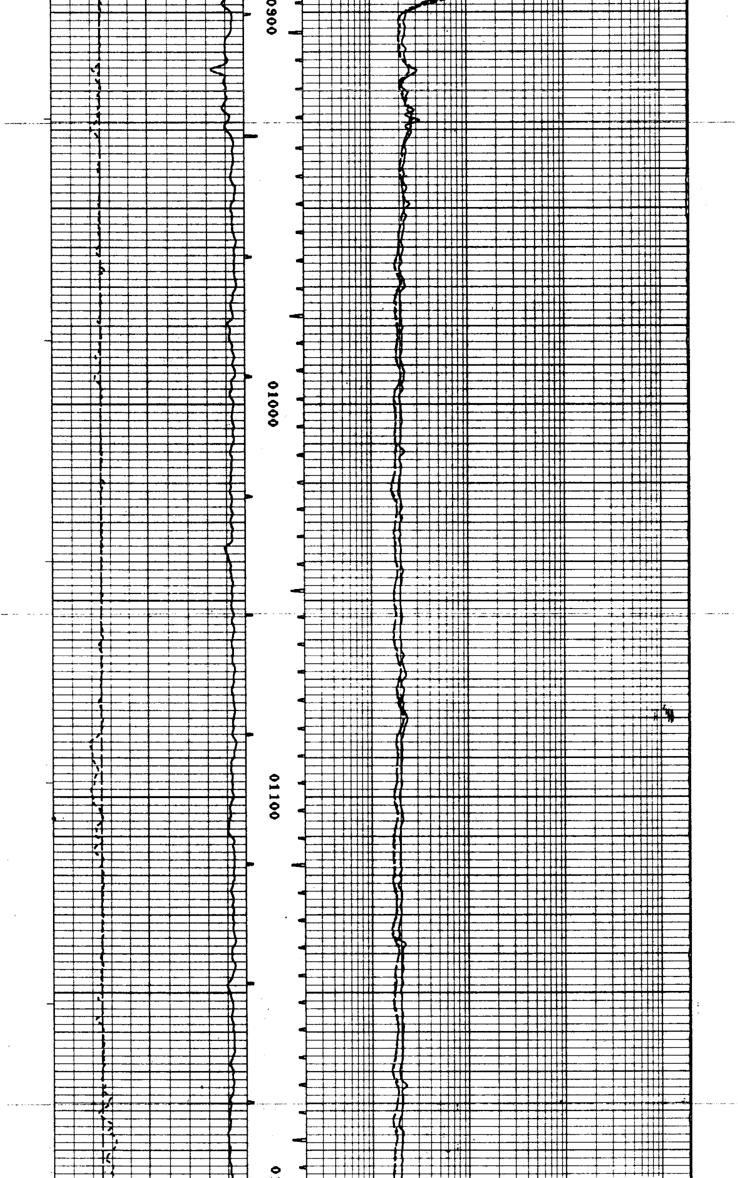
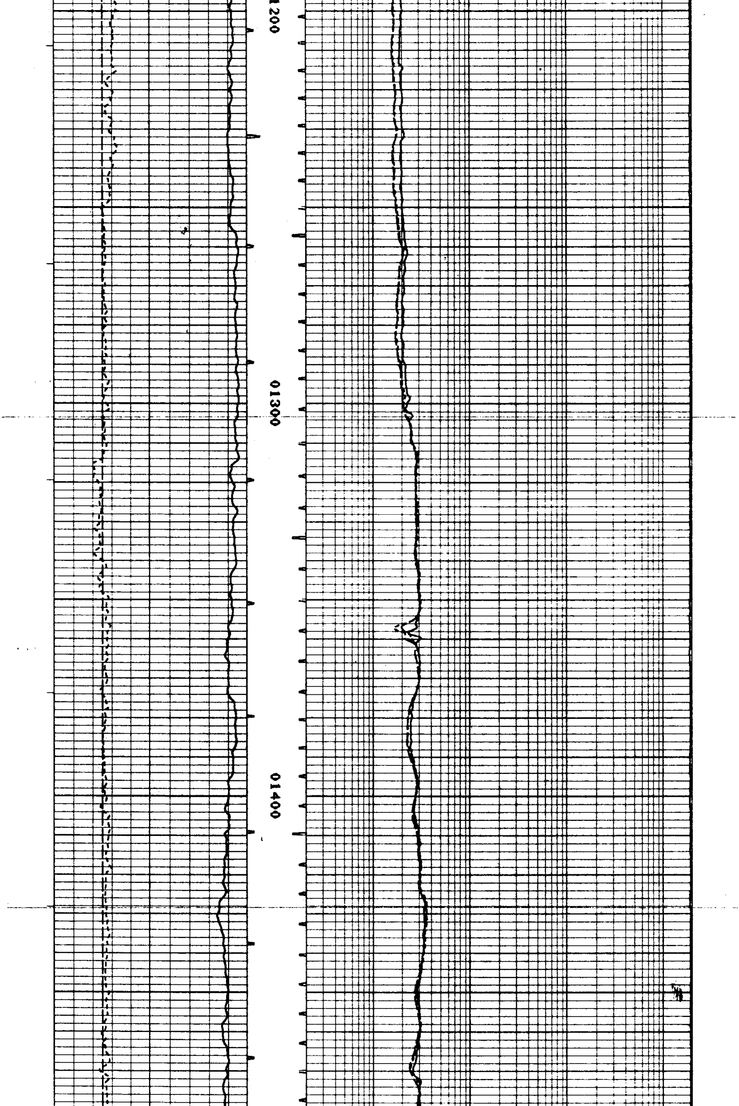
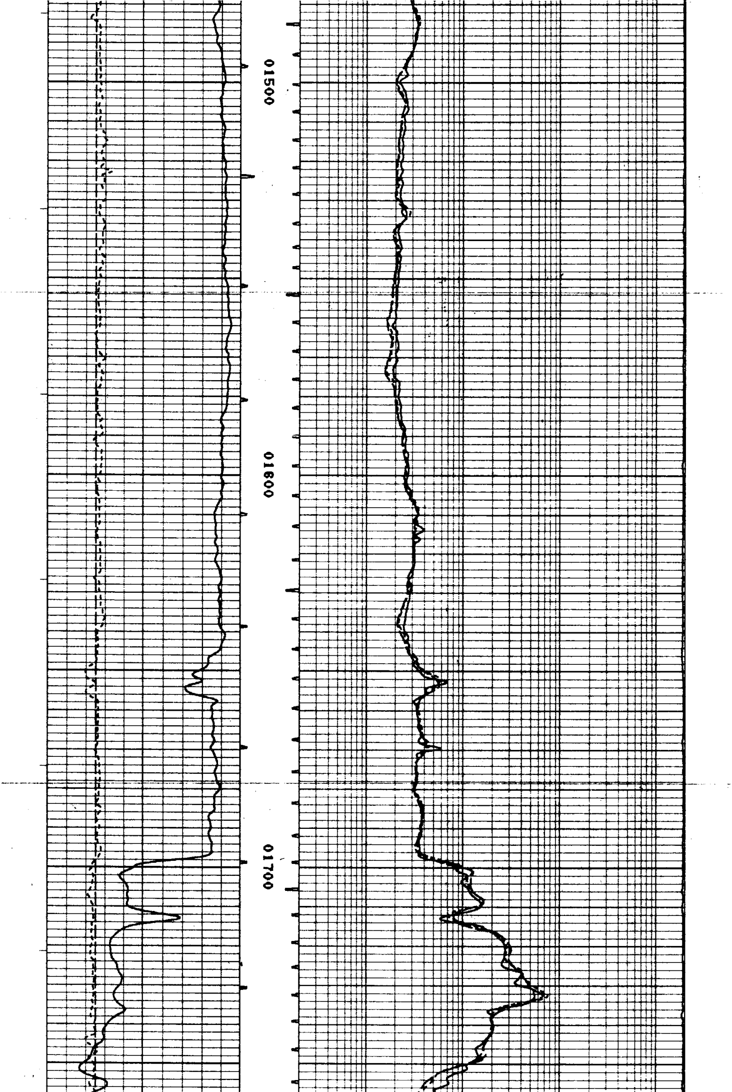
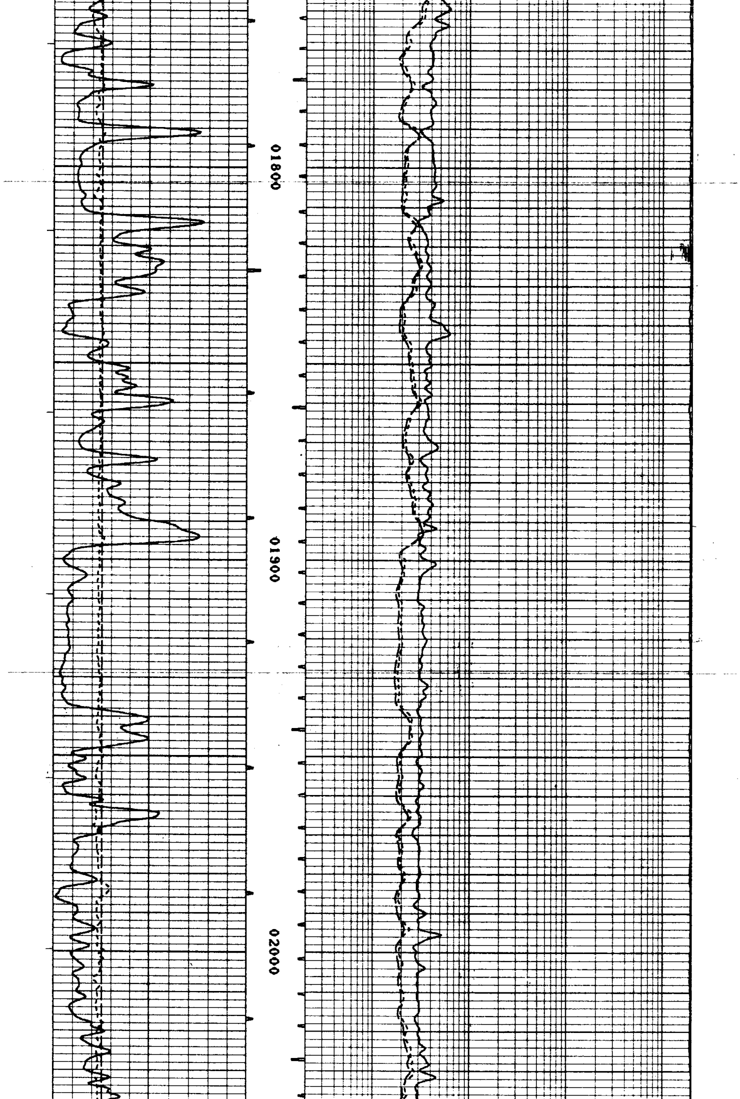


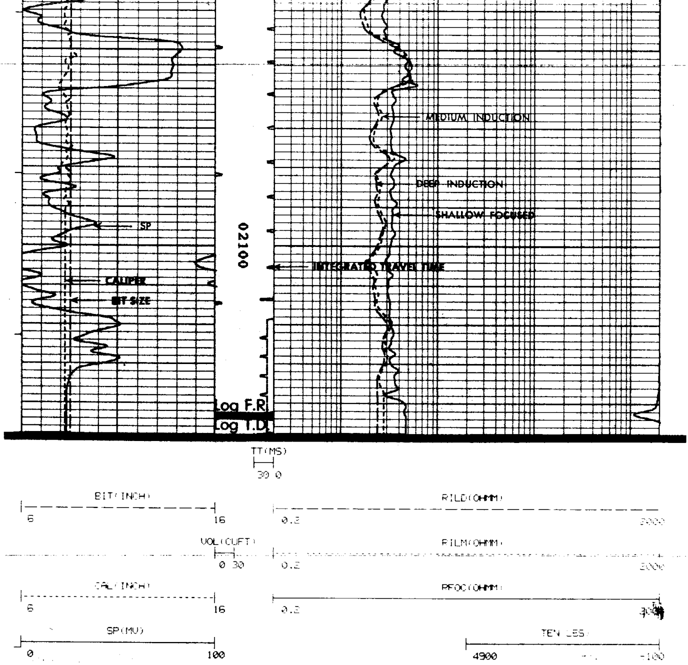












PARAMETERS

NAME	DEPTH INTERVAL	VALUE	UNITS
A	2148 TO 1573	0.000	
M	2148 TO 1573	0.000	
O.D.	2148 TO 1573	3.500	INCH
DEL-T F	2148 TO 1573	0.000	MICS/FT
DEL-T M	2148 TO 1573	**********	MICS/FT
DEL-T S	2148 TO 1573	0.000	MICS/FT

DISPLAY SCALE CHANGES

*** NONE ***

COMPANY: ARCO OIL & GAS COMPANY
WELL NAME: CC 44-27-65

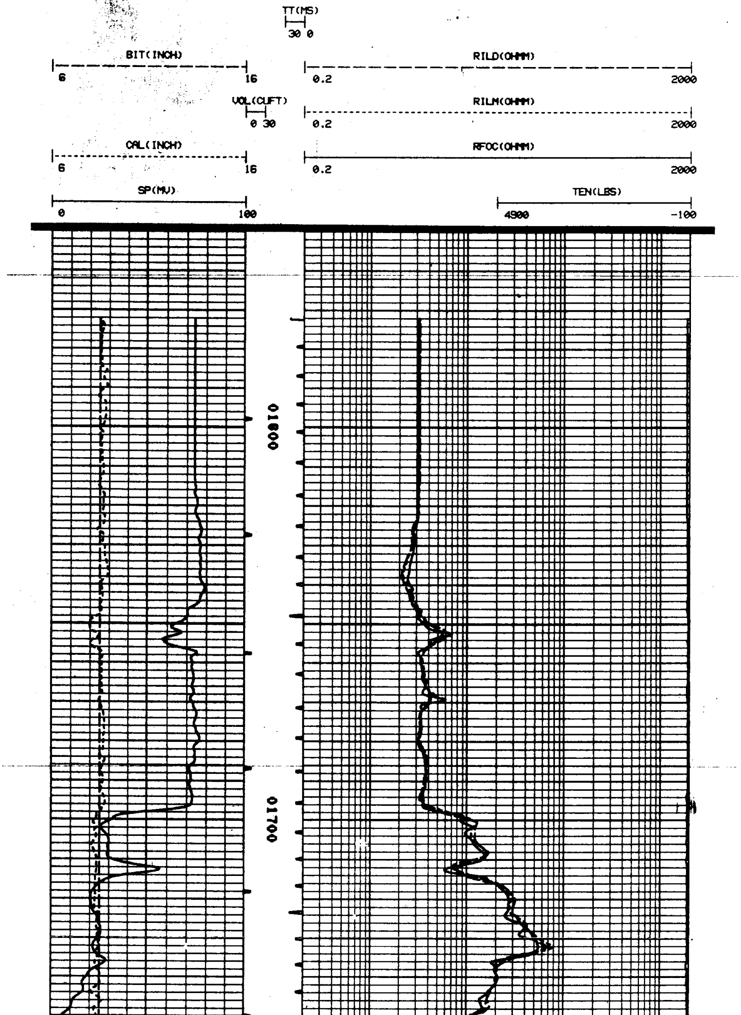
RUN: 1
TRIP: 1

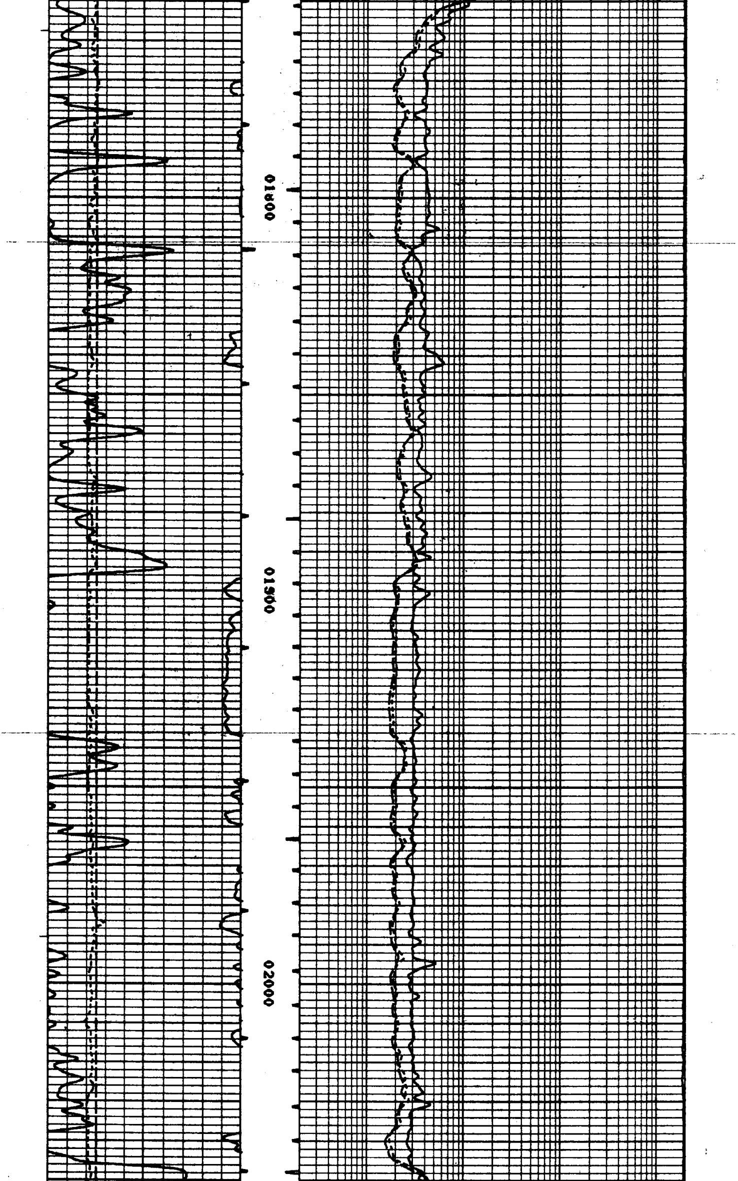
SERVICE: KC214N FILE: 1 DATE: 7/ 4/88 TIME: 12:10: 7

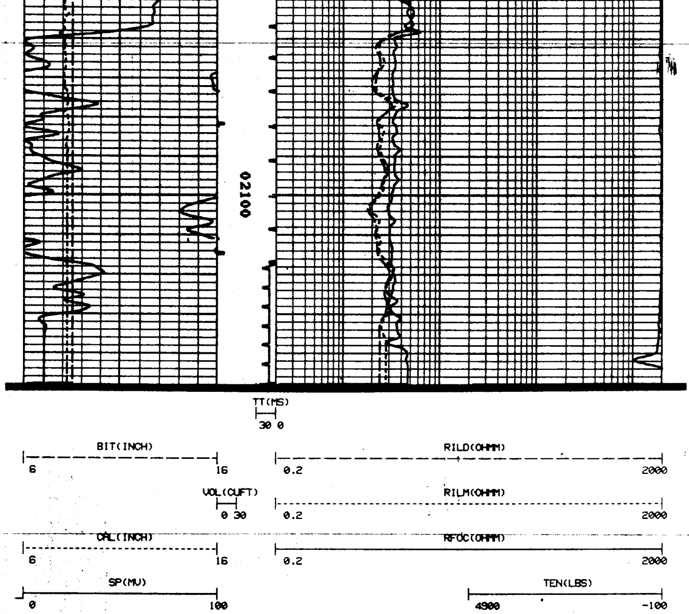
REVISION: FSYSAL REV GS08 VER+2

REPEAT SECTION

MODE: PLAYBACK







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*****************************************
*                                       *
*  CALIBRATION/VERIFICATION SUMMARIES   *
*  DATE 07/04/88          TIME 19:19:21 *
*  RUN  1                 TRIP 1        *
*                                       *
*****************************************


     LOG NAME DIFL   ASSET NO. 72831    UNIT NO. HL 6406
  CALIBRATION ENTERED ON  07/04/88 AT 19:18:17

CURVE  MILLIVOLTS    SCALING FACTORS    ENGINEERING VALUES   UNITS
        LOW   HIGH   ADD.    MULT.        LOW       HIGH
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     DATE 05/12/88          CALIBRATION         TIME 11:22:24

CILD     0.9   495.3   0.258    1.9694      1.000    500.000 MMHO
CILM    -0.6   540.1   1.498    2.0831      1.000    500.000 MMHO
CFOC     5.2   519.4  -4.013    2.3679      1.000    500.000 MMHO

     DATE 05/12/88    PRIMARY VERIFICATION      TIME 11:23:47

CILD    -0.1   493.4   0.258    1.9694      0.175    497.342 MMHO
CILM    -0.3   551.4   1.498    2.0831      1.249    511.253 MMHO
CFOC     6.3   520.5  -4.013    2.3679      2.136    501.065 MMHO

     DATE 07/04/88   BEFORE LOG VERIFICATION    TIME 12:02:42

CILD    -0.2   493.0   0.308    1.9709      0.175    497.342 MMHO
CILM    -0.2   550.8   1.440    2.0859      1.249    511.253 MMHO
CFOC     6.2   498.6  -4.134    2.4722      2.136    501.065 MMHO

     DATE 07/04/88    AFTER LOG VERIFICATION    TIME 13:06:29

CILD    -0.1   494.5   0.308    1.9709      0.222    498.999 MMHO
CILM    -0.3   552.1   1.440    2.0859      1.175    512.586 MMHO
CFOC     6.1   497.6  -4.134    2.4722      2.059    500.077 MMHO
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        LOG NAME GR      ASSET NO. 78616P   UNIT NO. HL 6406
     CALIBRATION ENTERED ON  07/04/88 AT 18:57:11

CURVE   COUNTS/SEC.     SCALING FACTORS     ENGINEERING VALUES   UNITS
          LOW    HIGH    ADD.    MULT.          LOW        HIGH
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     DATE 07/01/88          CALIBRATION           TIME 14:44:46

GR        91.9   334.8    0.000    0.6175      0.000     150.000 API

     DATE 07/01/88     PRIMARY VERIFICATION       TIME 14:47:55

GR        89.9   334.6    0.000    0.6175     55.542     206.638 API

     DATE 07/04/88    BEFORE LOG VERIFICATION     TIME 11:38:50

GR       147.9   385.9    0.000    0.6175     91.340     238.268 API

     DATE 07/04/88     AFTER LOG VERIFICATION     TIME 19:02:24

GR       132.4   382.5    0.000    0.6175     81.754     236.169 API


        LOG NAME CAL     ASSET NO. 79090    UNIT NO. HL 6406
     CALIBRATION ENTERED ON  07/04/88 AT 11:57:13

CURVE   MILLIVOLTS      SCALING FACTORS     ENGINEERING VALUES   UNITS
          LOW    HIGH    ADD.    MULT.          LOW        HIGH
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     DATE 06/02/88          CALIBRATION           TIME 21:52:25

CAL     3576.6  8184.6    1.343    0.0095      6.000      12.000 INCH

                       PRIMARY VERIFICATION             NOT DONE

     DATE 07/04/88    BEFORE LOG VERIFICATION     TIME 11:52:24

CAL        E     5591.2   1.343    0.0095      E           8.623 INCH

     DATE 07/04/88     AFTER LOG VERIFICATION     TIME 13:01:09

CAL        E     5398.5   1.343    0.0095      E           8.372 INCH
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