ATLAS
WIRELINE
SERVICES

DUAL INDUCTION FOCUSED LOG

FILE NO. 2944

API NO.

5" = 100'

COMPANY ARCO OIL & GAS COMPANY

WELL LF 24-8-75

FIELD MIST

COUNTY COLUMBIA STATE OR.

LOCATION:
1195' N & 93' W FROM THE SE CORNER OF

SEC 8 TWP 7N RGE 5W

OTHER SERVICES
BHC/GR
GR/CN/CDL
DIP

PERMANENT DATUM GL ELEV. 731'
LOGGING MEASURED FROM KB 10' FT. ABOVE P.D.
DRILLING MEASURED FROM KB

ELEVATIONS
KB 741'
DF -
GL 731'

FINAL PRINT

DATE	10/26/88				
RUN	1				
SERVICE ORDER	159114				
DEPTH-DRILLER	2814'				
DEPTH-LOGGER	2810'				
BOTTOM LOGGED INTERVAL	2808'				
TOP LOGGED INTERVAL	854'				
CASING - DRILLER	9 5/8"	@ 855'	@	@	@
CASING - LOGGER	854'				
BIT SIZE	8 1/2"				
TYPE FLUID IN HOLE	E Z MUD				
DENSITY / VISCOSITY	10.+	48			
PH / FLUID LOSS	9.0	5.2			
SOURCE OF SAMPLE	FLOWLINE				
RM AT MEAS. TEMP.	2.74	@ 71 F	@	@	@
RMF AT MEAS. TEMP.	2.23	@ 71 F	@	@	@
RMC AT MEAS. TEMP.	3.2	@ 71 F	@	@	@
SOURCE OF RMF / RMC	MEAS;	MEAS			
RM AT BHT	1.74	@ 112	@	@	@
TIME SINCE CIRCULATION	2 HRS				
MAX. REC. TEMP. DEG. F	112 F				
EQUIP. NO. / LOC.	HL 6406	SAC			
RECORDED BY	B. WELCH				
WITNESSED BY	MR. 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 MEASURMENTS, 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)

AC AFFECTED BY ROAD NOISE 2160-2180, 2015

EQUIPMENT DATA

RUN	TRIP	TOOL	SERIAL NO.	SERIES NO.	POSITION
1	1	DIFL	33304	1503	1.5 SO
1	1	AC	79725	1603	CENT
1	1	GR	60484	1309	CENT
1	1	CAL	79090	4209	CENT

CURVE DELAYS

CURVE	DELAY	UNITS
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	27,0	FT,IN
AC	27,0	FT,IN

PARAMETERS

NAME	DEPTH INTERVAL	VALUE	UNITS
A	2821 TO 851	0.000	
M	2821 TO 851	0.000	
O.D.	2821 TO 851	0.000	INCH
DEL-T F	2821 TO 851	**********	MICS/FT
DEL-T M	2821 TO 851	-2.000	MICS/FT
DEL-T S	2821 TO 851	0.000	MICS/FT

DISPLAY SCALE CHANGES

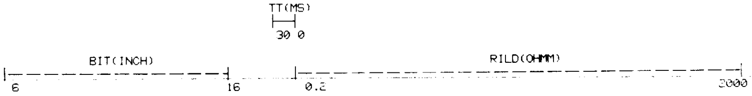
*** NONE ***

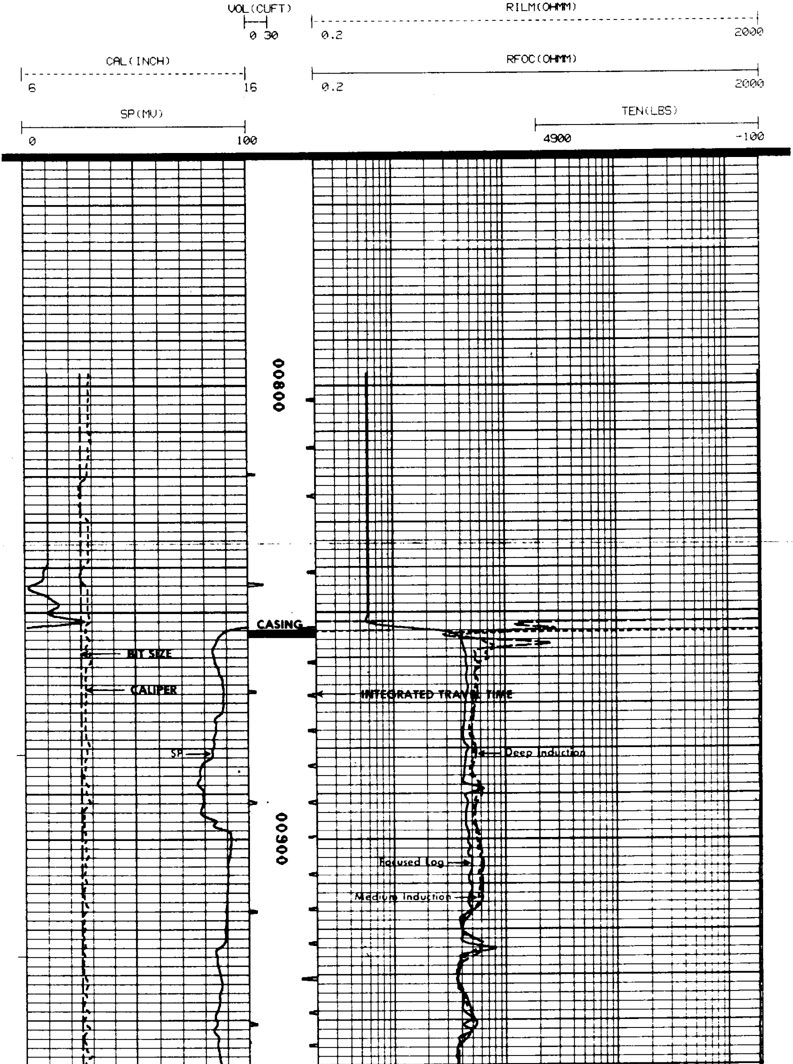
COMPANY: ARCO OIL & GAS COMPANY RUN: 1

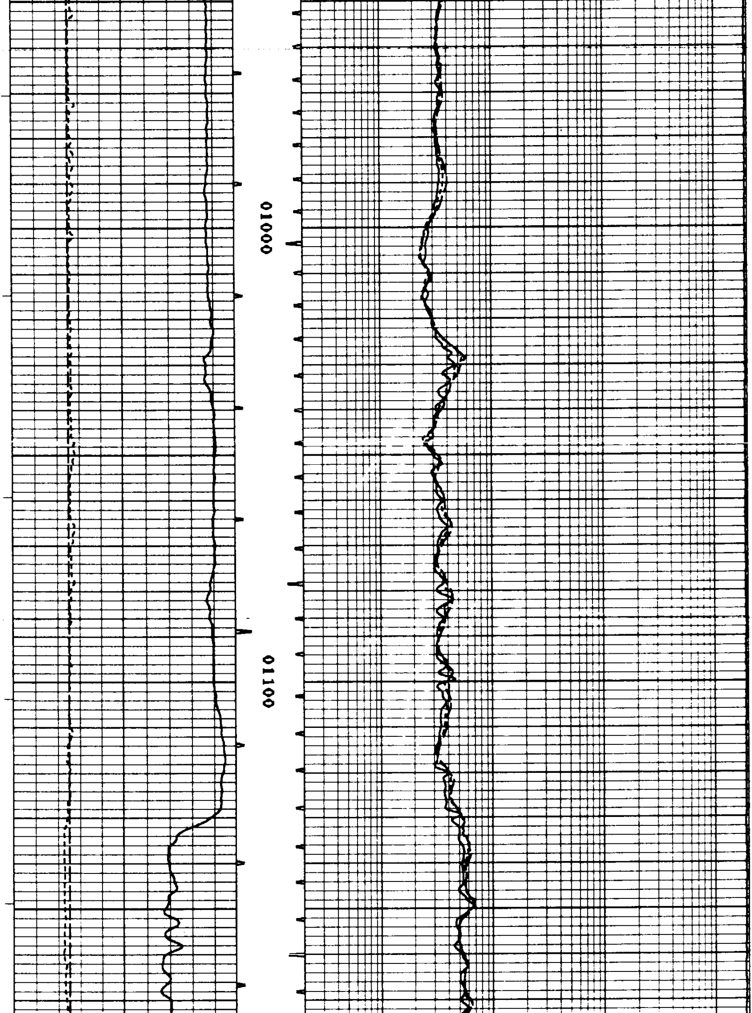
WELL NAME: LF 24-8-85 TRIP: 1

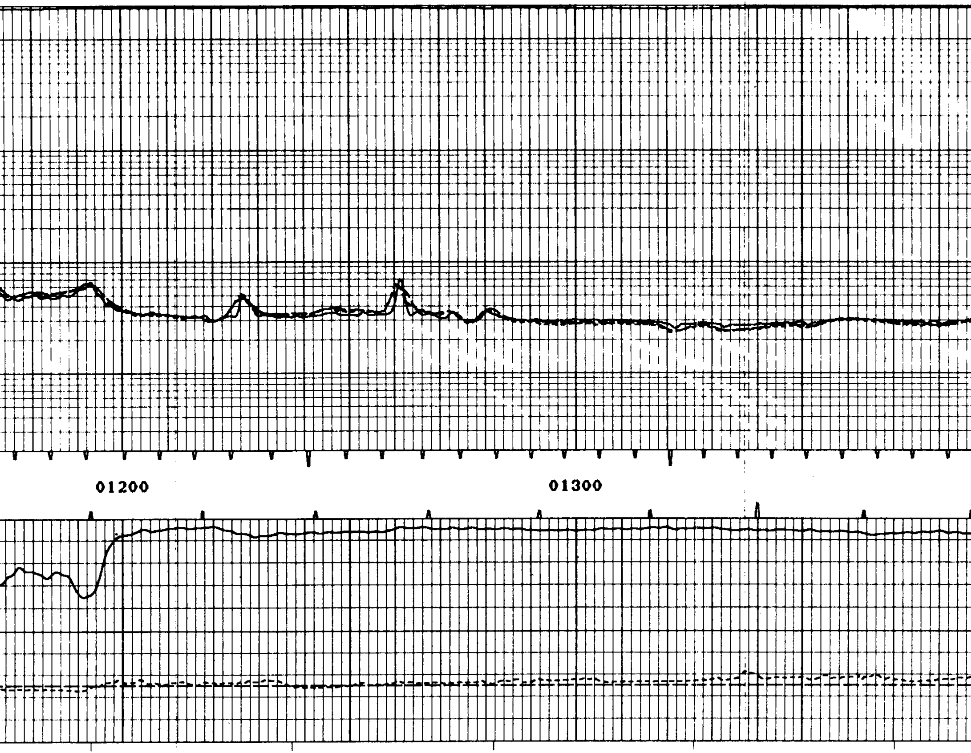
SERVICE: KC214N FILE: 2 DATE: 10/25/88 TIME: 18:26:44

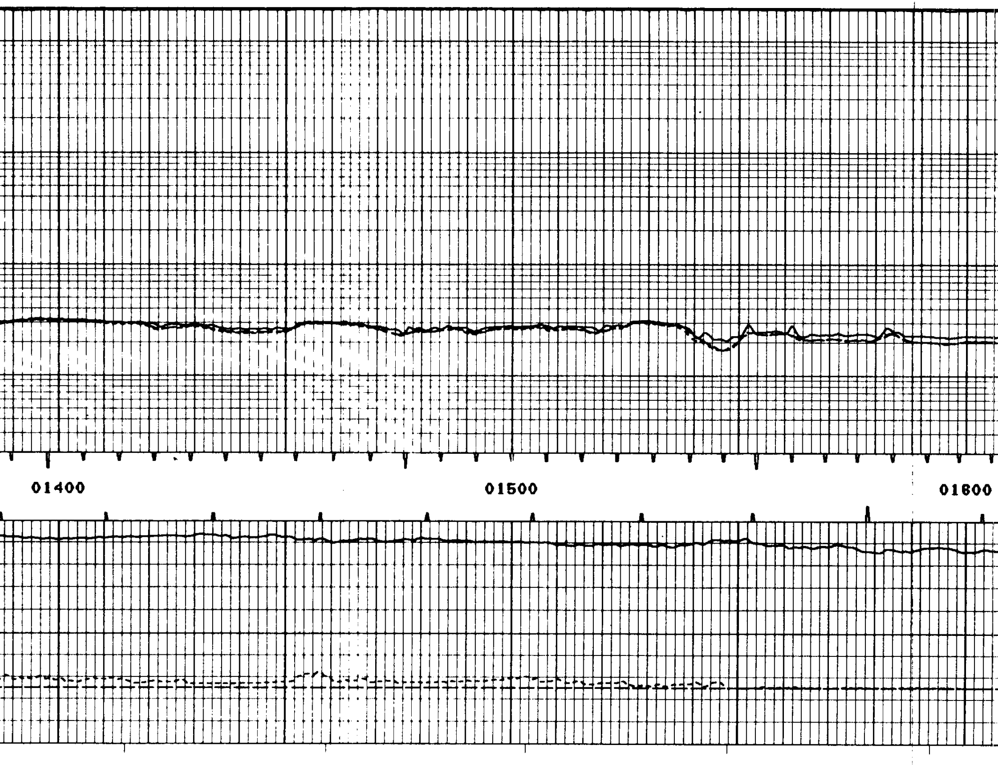
REVISION: FSYSAL REV GS08 VER 2 MODE: RECORD

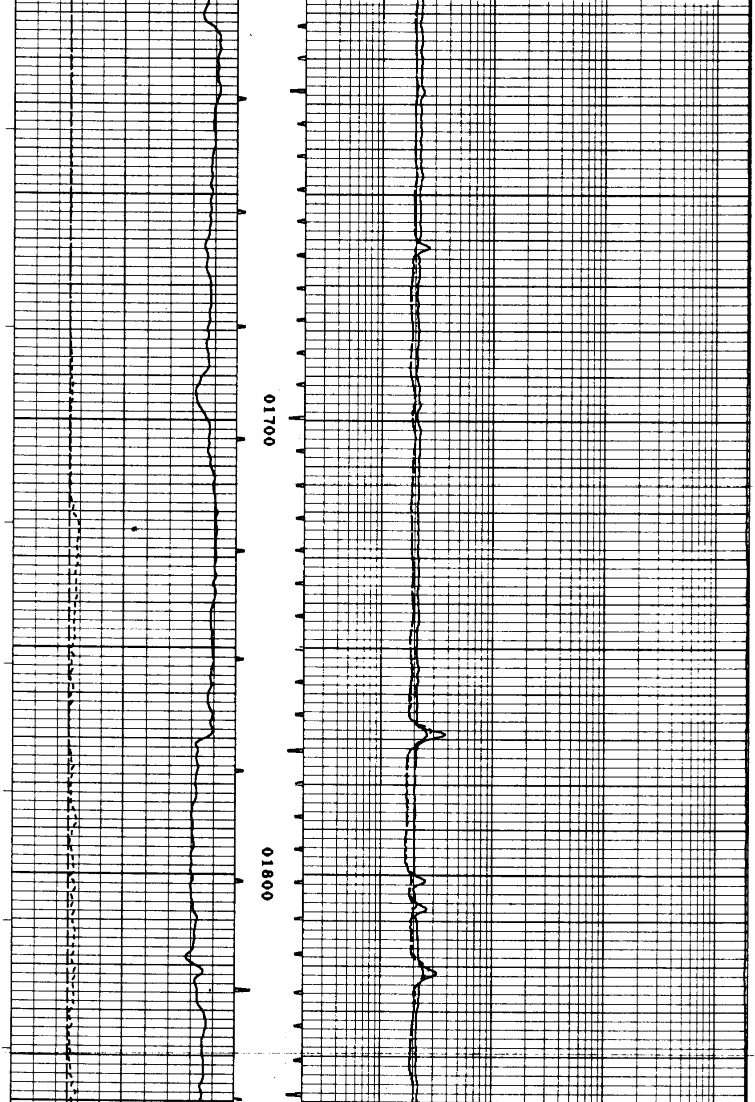


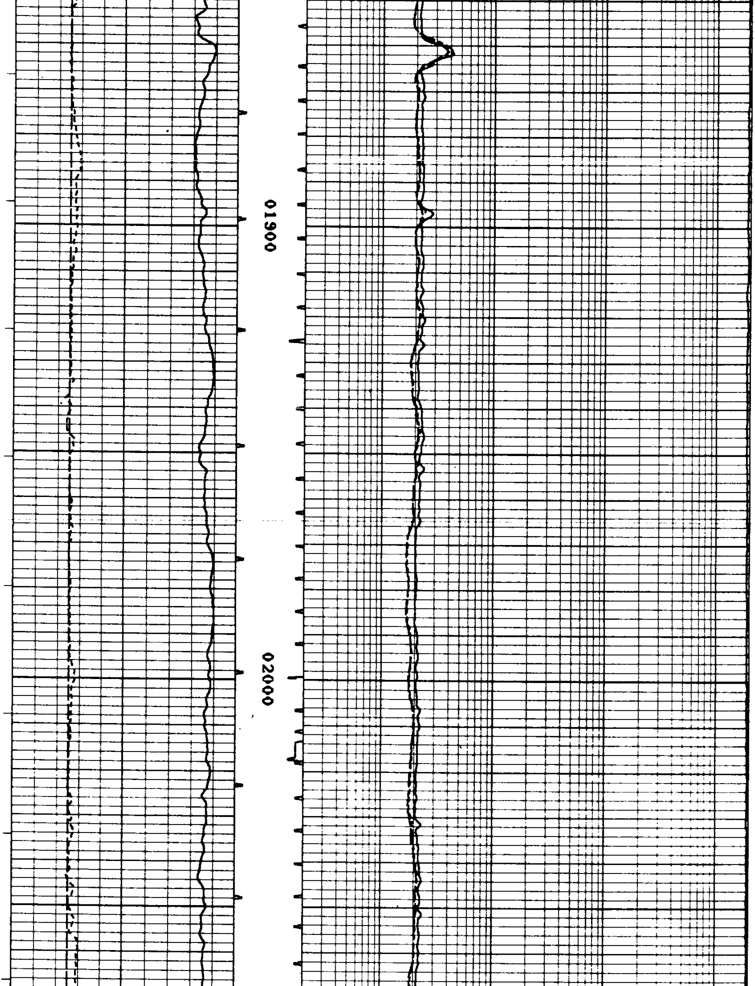


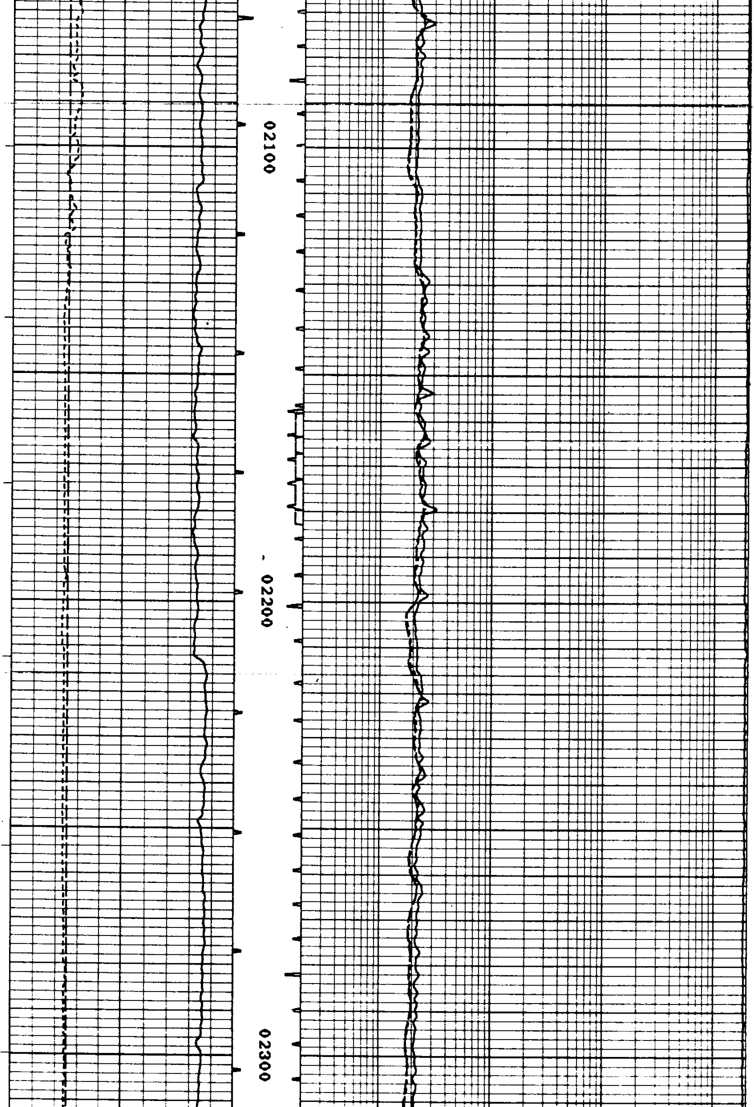


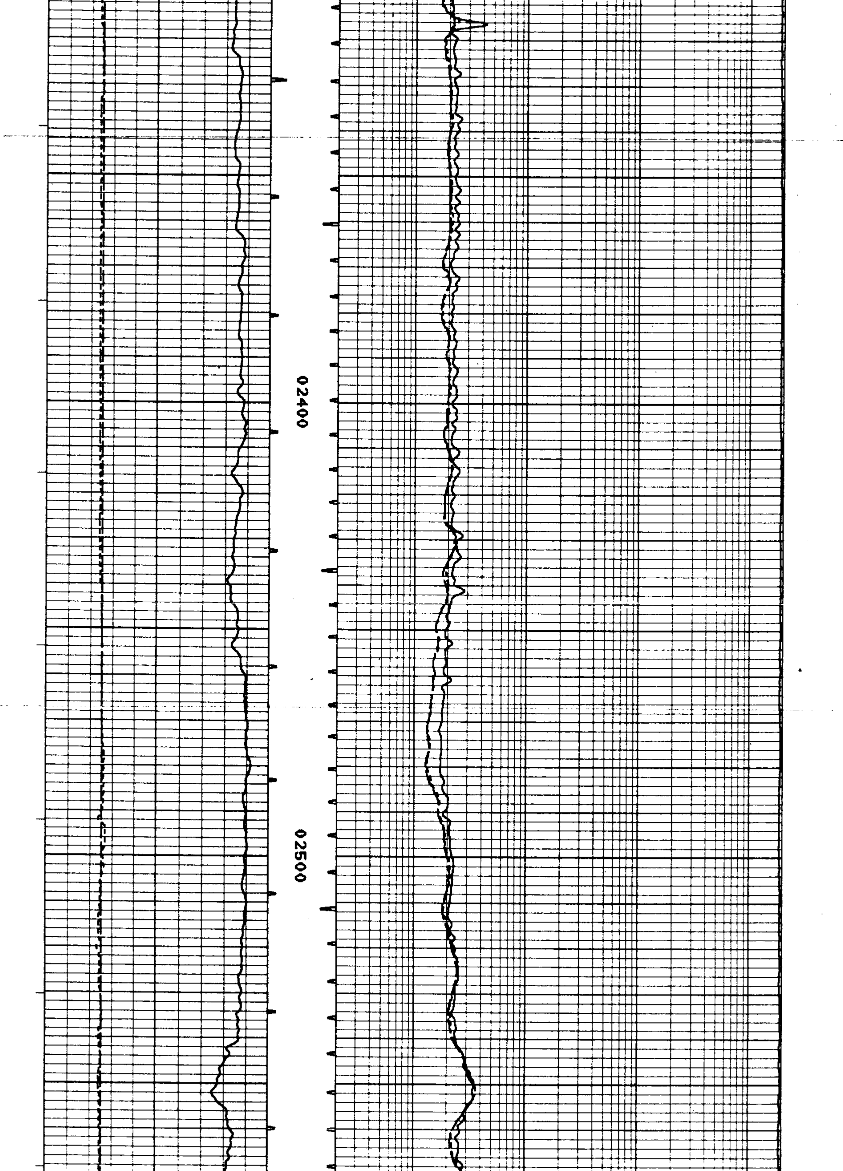


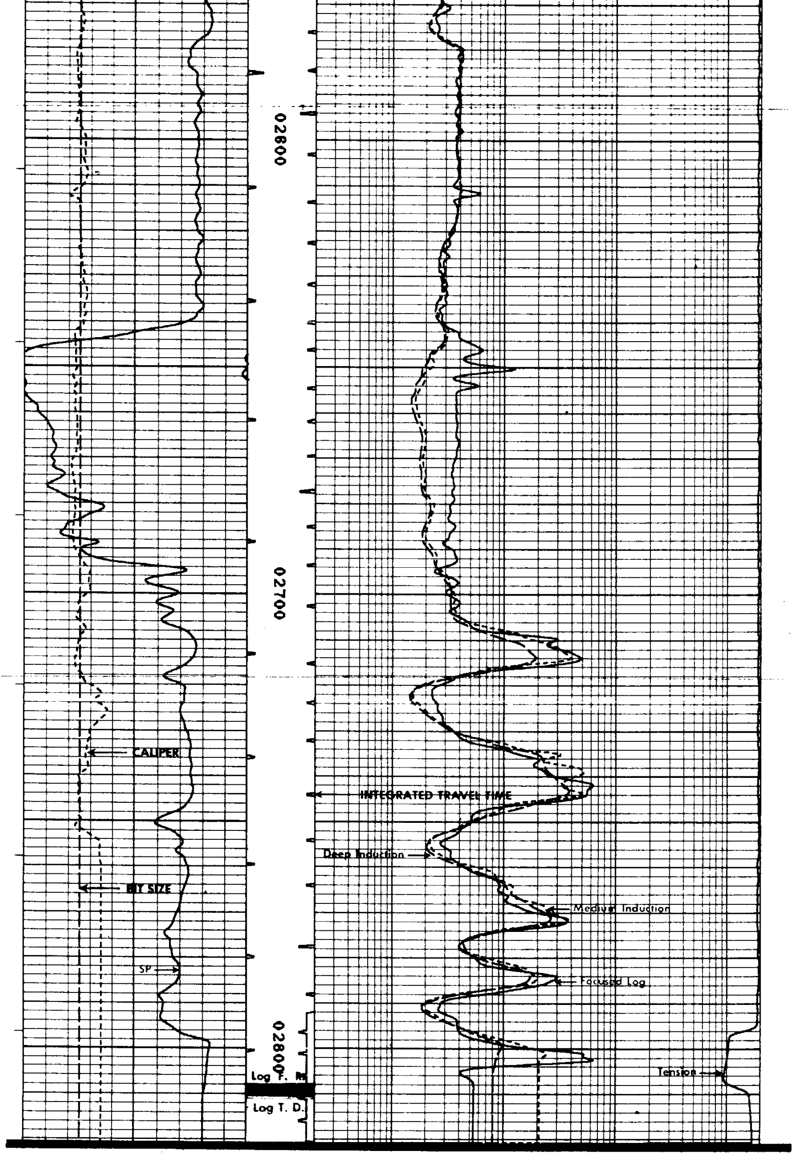


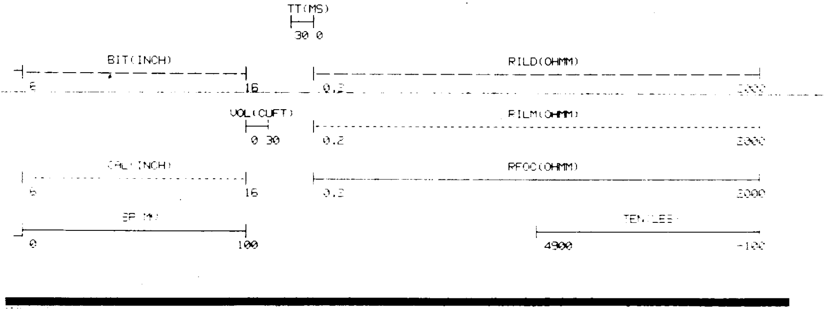




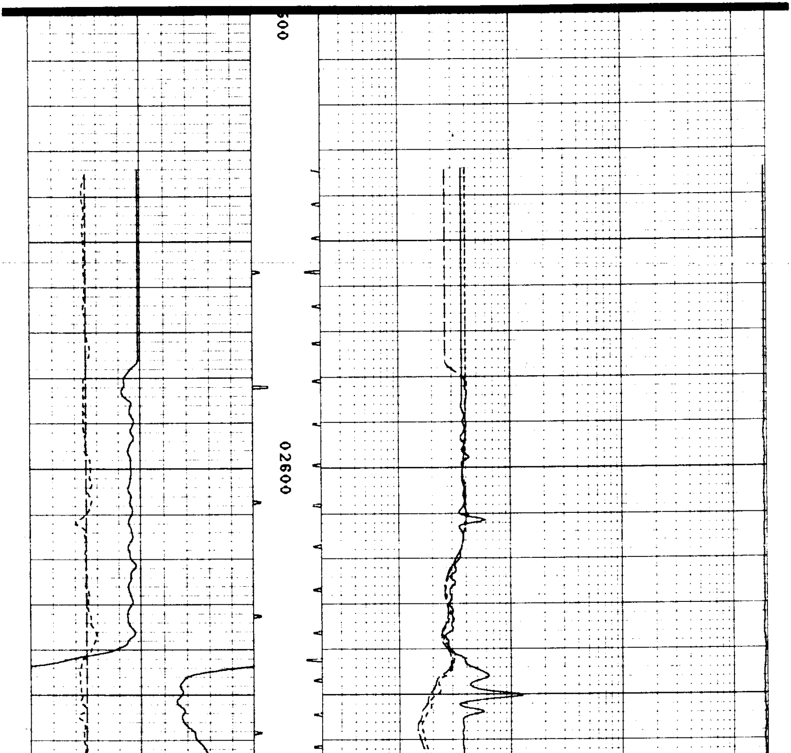


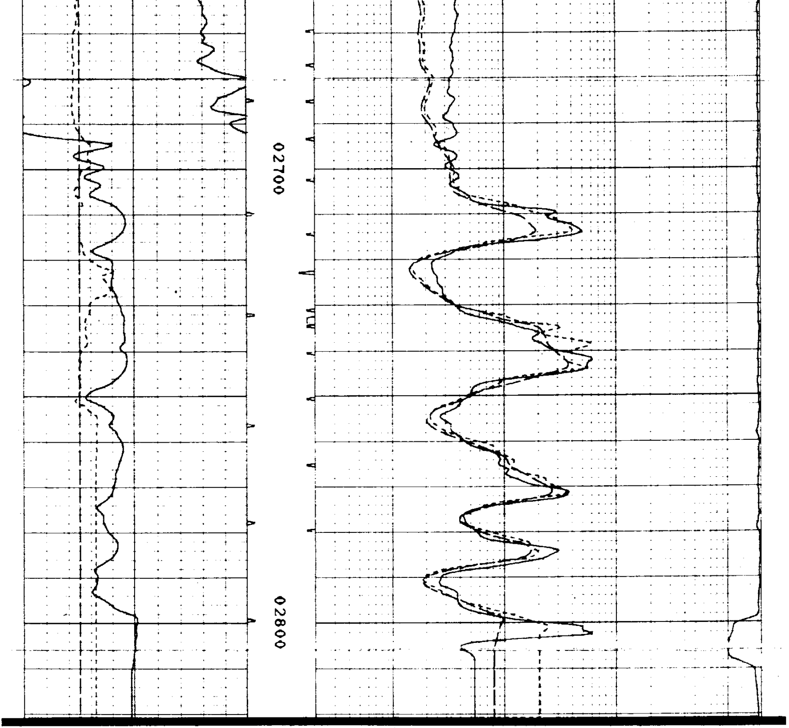






REPEAT SECTION





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*************************************
*                                   *
*  CALIBRATION/VERIFICATION SUMMARIES  *
*  DATE 10/25/88        TIME 20:10:17  *
*  RUN  1               TRIP 1         *
*                                   *
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      LOG NAME DIFL - ASSET NO. 33304    UNIT NO. HL 6406
   CALIBRATION ENTERED ON  10/25/88 AT 15:05:21

CURVE   MILLIVOLTS      SCALING FACTORS     ENGINEERING VALUES   UNITS
         LOW    HIGH    ADD.    MULT.           LOW       HIGH
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      DATE 10/06/88          CALIBRATION          TIME 12:07:06

CILD       1.8   484.5   -0.964    2.0192        0.500     500.000 MMHO
CILM      -2.0   506.8    2.349    2.2159        0.500     500.000 MMHO
CFOC       3.2   497.6   -2.240    2.4626        1.000     500.000 MMHO

      DATE 10/06/88    PRIMARY VERIFICATION       TIME 12:09:42

CILD      -0.2   486.4   -0.964    2.0192       -1.131     501.525 MMHO
CILM       0.0   504.5    2.349    2.2159        2.420     497.678 MMHO
CFOC       4.5   504.0   -2.240    2.4626        2.331     506.403 MMHO

      DATE 10/25/88   BEFORE LOG VERIFICATION    TIME 18:02:22

CILD      -0.0   496.4   -1.113    1.9792       -1.131     501.525 MMHO
CILM       0.1   508.1    2.322    2.2004        2.420     497.678 MMHO
CFOC       4.9   487.5   -2.826    2.5490        2.331     506.403 MMHO

      DATE 10/25/88    AFTER LOG VERIFICATION    TIME 19:20:36

CILD       0.1   496.4   -1.113    1.9792       -1.051     501.599 MMHO
CILM       0.0   506.2    2.322    2.2004        2.403     495.797 MMHO
CFOC       4.8   488.2   -2.826    2.5490        2.196     507.231 MMHO



        LOG NAME GR      ASSET NO. 60484P   UNIT NO. HL 6406
   CALIBRATION ENTERED ON  10/25/88 AT 15:08:57

CURVE   COUNTS/SEC.     SCALING FACTORS     ENGINEERING VALUES   UNITS
         LOW    HIGH    ADD.    MULT.           LOW       HIGH
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      DATE 10/25/88          CALIBRATION          TIME 15:08:57

GR        53.6   277.1    0.000    0.6865        0.000     150.000 API

                       PRIMARY VERIFICATION              NOT DONE

                      BEFORE LOG VERIFICATION            NOT DONE

      DATE 10/25/88    AFTER LOG VERIFICATION    TIME 20:07:20

GR       125.4   338.6    0.000    0.6865       86.070     232.431 API



        LOG NAME CAL     ASSET NO. 79090    UNIT NO. HL 6406
   CALIBRATION ENTERED ON  10/25/88 AT 15:07:26

CURVE   MILLIVOLTS      SCALING FACTORS     ENGINEERING VALUES   UNITS
         LOW    HIGH    ADD.    MULT.           LOW       HIGH
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      DATE 10/25/88          CALIBRATION          TIME 15:07:26

CAL     3437.4  8268.9    1.731    0.0091        6.000      12.000 INCH

                       PRIMARY VERIFICATION              NOT DONE

      DATE 10/25/88   BEFORE LOG VERIFICATION    TIME 17:59:47

CAL     5659.3  5665.9    1.731    0.0091        8.759       8.768 INCH

      DATE 10/25/88    AFTER LOG VERIFICATION    TIME 19:24:17

CAL       E   .  5734.1    1.731    0.0091        E            8.852 INCH
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