COUNTY COLUMBIA, OREGON
FIELD MIST GAS FIELD
LOCATION
WELL COLUMBIA COUNTY 31-8
COMPANY ARCO OIL & GAS

Schlumberger

HIGH RESOLUTION DIPMETER

COMPANY ARCO OIL AND GAS COMPANY

WELL COLUMBIA COUNTY 31-8

FIELD MIST GAS FIELD

COUNTY COLUMBIA **STATE** OREGON

LOCATION
1605.33' WEST & 659.59' SOUTH
FROM THE NE CORNER OF:

API SERIAL NO.	SEC.	TWP	RANGE
	8	6-NORTH	5-WEST

Other Services:
BHC DIL/SFL
CNL/LDT
MONITOR
QUICKLOOK

Permanent Datum: G.L. ; Elev.: 714.9
Log Measured From K.B. 11 Ft. Above Perm. Datum
Drilling Measured From K.B.

Elev.: K.B. 725.9
D.F. 724.9
G.L. 714.9

Date	10-25-86			
Run No.	TWO			
Depth Driller	4054			
Depth Logger (Schl.)	4020			
Btm Log Interval	4020			
Top Log Interval	400			
Casing—Driller	9 5/8@ 450	@	@	@
Casing—Logger	450			
Bit Size	8 1/2			
Type Fluid in Hole	DISPERSED			
Dens. | Visc.	11.60 | 47.0			
pH | Fluid Loss	8.5 | 4.4 ml	ml	ml	ml
Source of Sample	FLOWLINE			
Rm @ Meas. Temp.	2.640@ 84 °F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	3.110@ 62 °F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	3.540@ 64 °F	@ °F	@ °F	@ °F
Source: Rmf | Rmc	MEAS | MEAS			
Rm @ BHT	2.288@ 98 °F	@ °F	@ °F	@ °F
TIME Circulation Stopped	2000 10-24			
TIME Logger on Bottom	0530 10-25			
Max. Rec. Temp.	98 °F	°F	°F	°F
Equip. | Location	8128 | SACRAMENTO			
Recorded By	BLAZE			
Witnessed By	ANDERSON			

JAN 28 1987
DOGAMI
Portland

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

Run No.	TWC			
Service Order No.	524315			
API Serial No.				
Fluid Level				

SCALE CHANGES

Type Log	Depth	Scale Up Hole	Scale Down Hole

REMARKS:

RIG: H&C #5

EQUIPMENT NUMBERS-

DIS 1181	DIC 658	PGS 542	PDH 340
GSR 6608	SFT 1171	CNC 1132	

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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EVENT MARK SUMMARY:

OUTPUT	INTERVAL BETWEEN PIPS	DEPTH TRACK EDGE

IHV 10.0000 F3 LEFT EDGE

DEVI(DEG)	C2 (IN)
-1.000 9.0000	26.000 6.0000
RB (DEG)	C1 (IN)
-40.00 360.00	26.000 6.0000
AZIM(DEG)	
-40.00 360.00	

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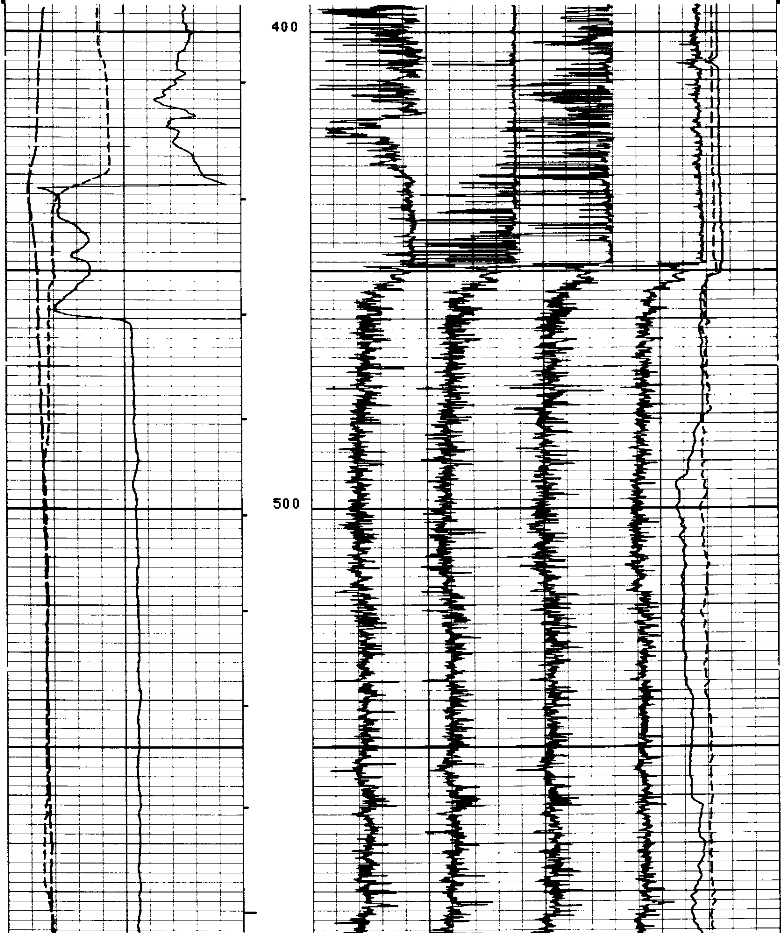

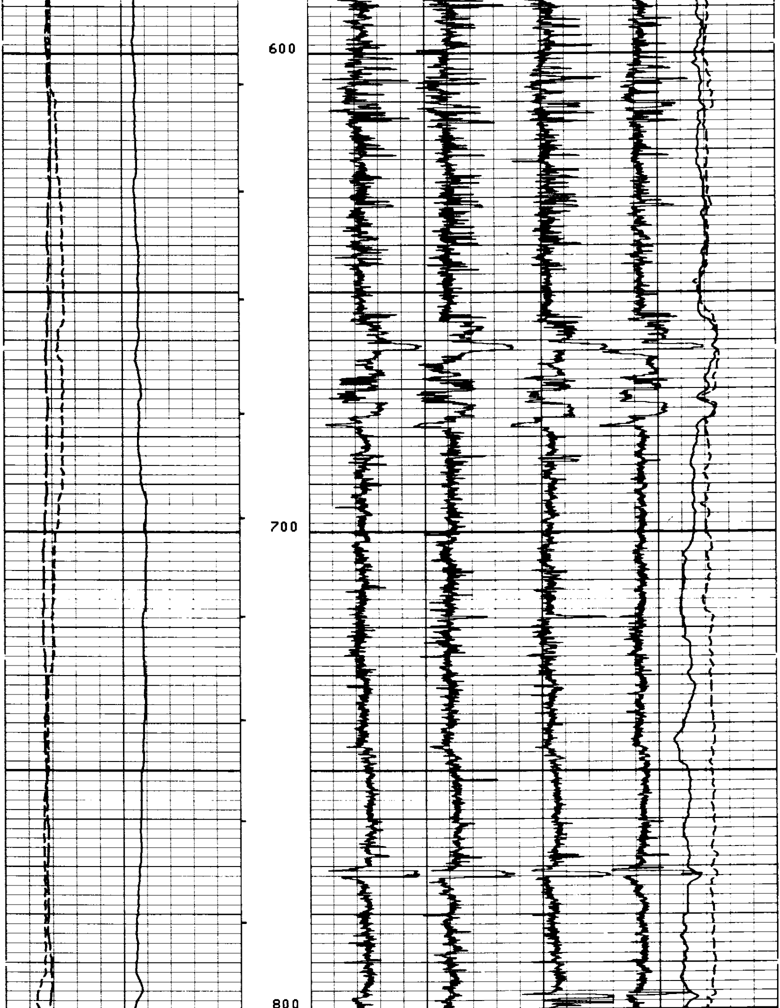

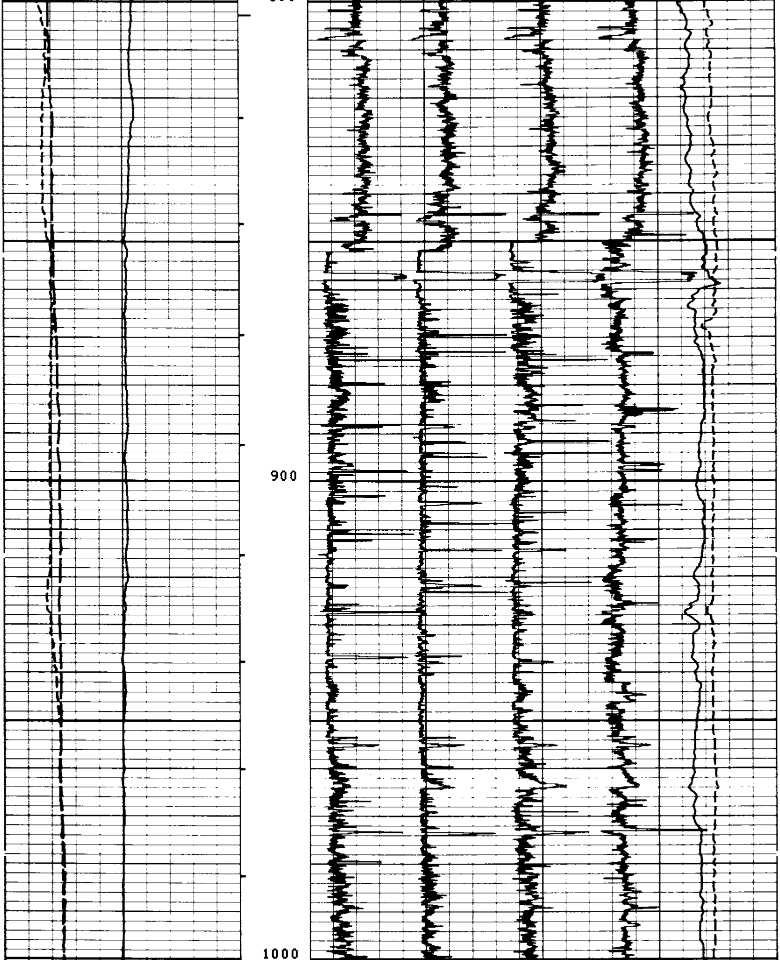

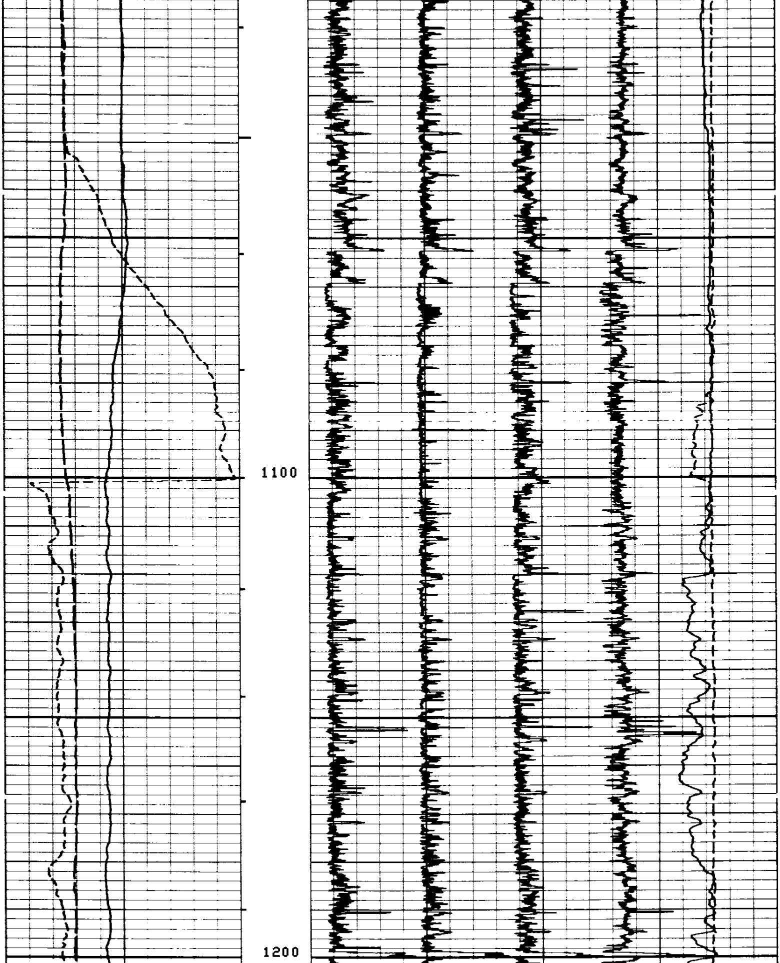

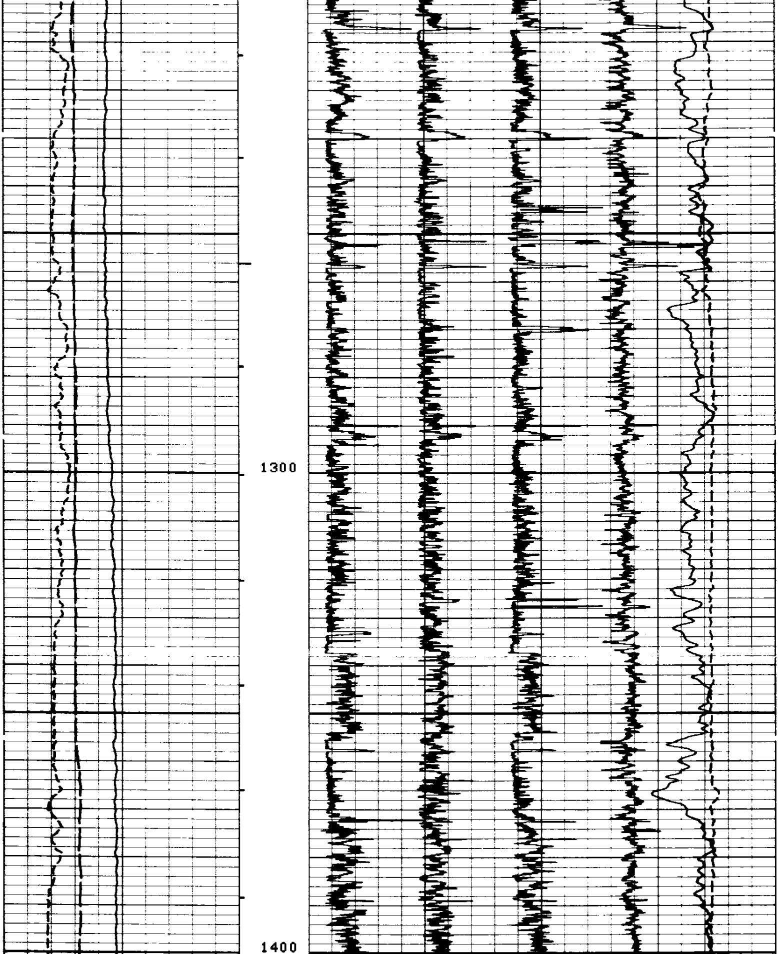

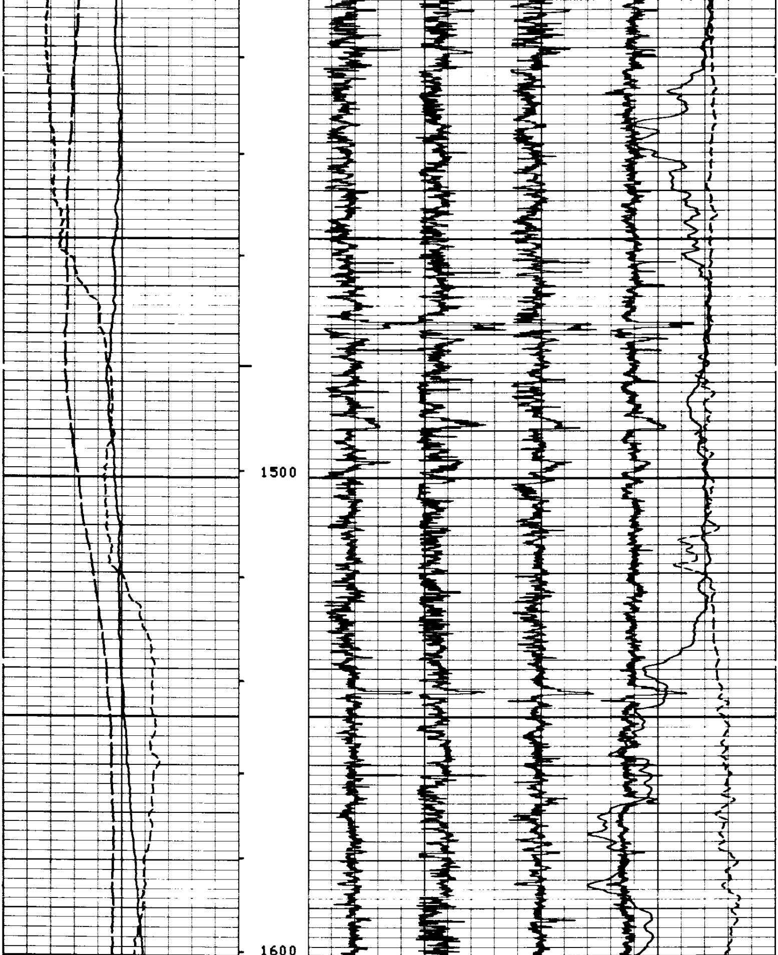

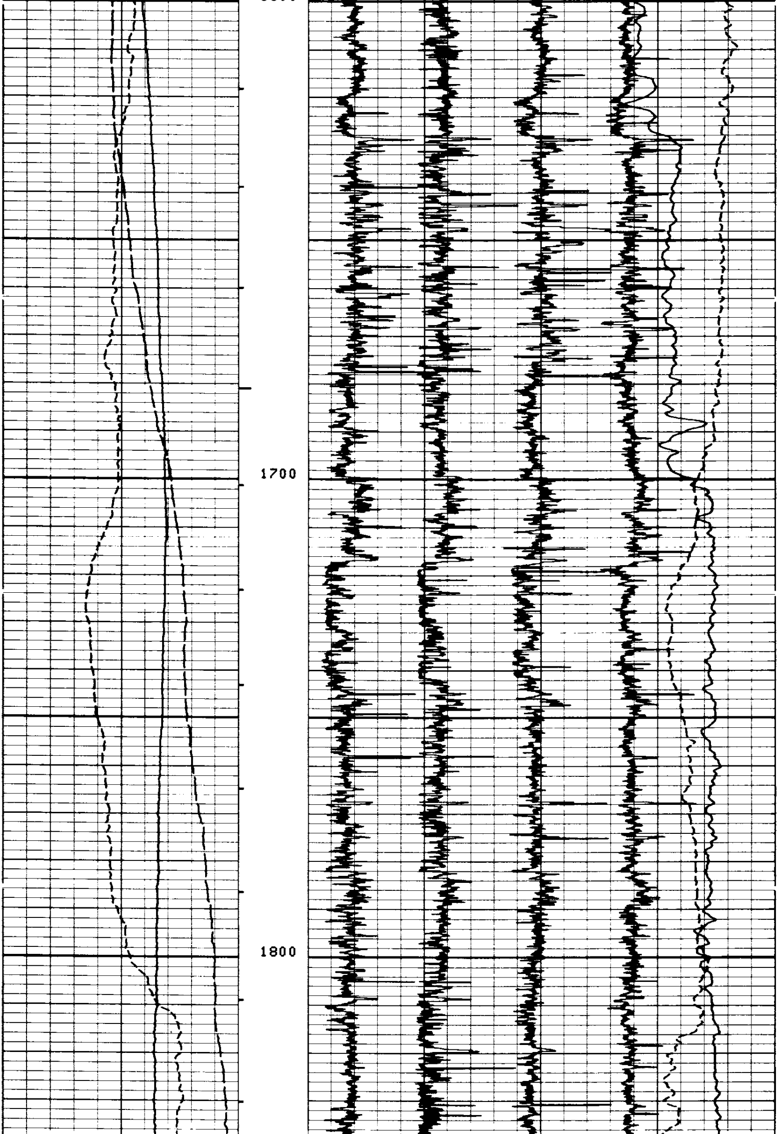

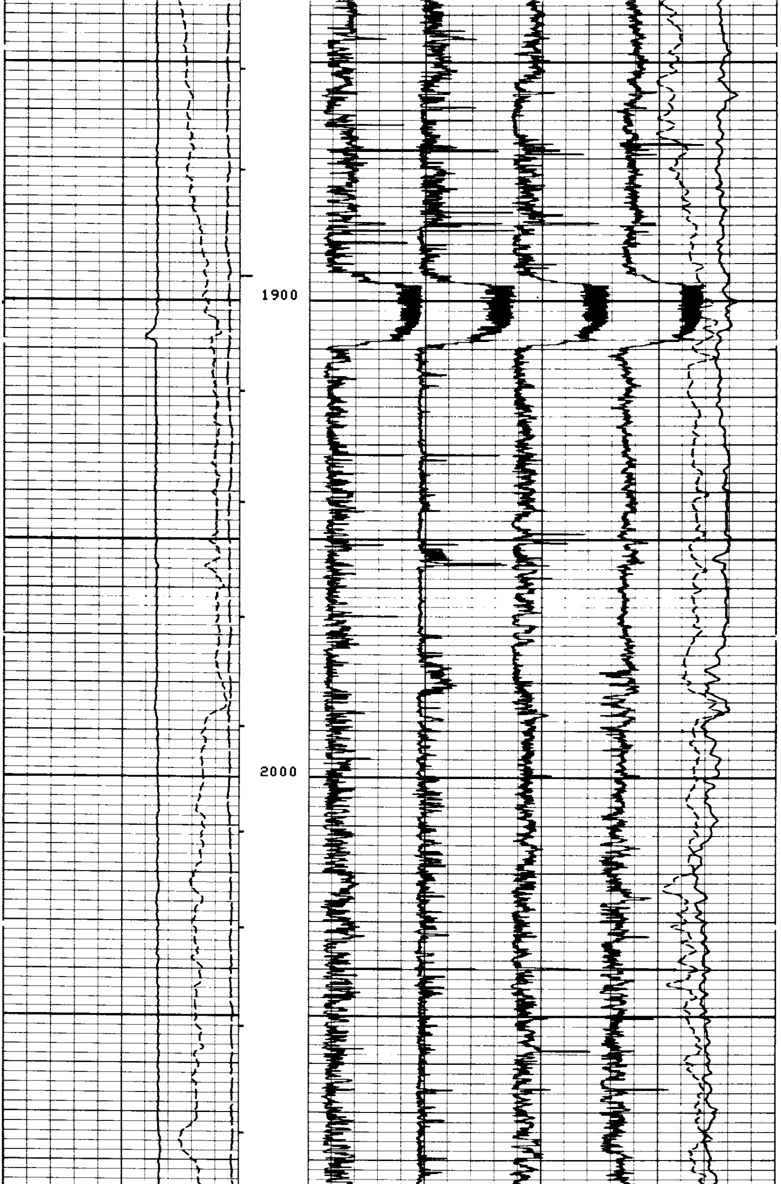

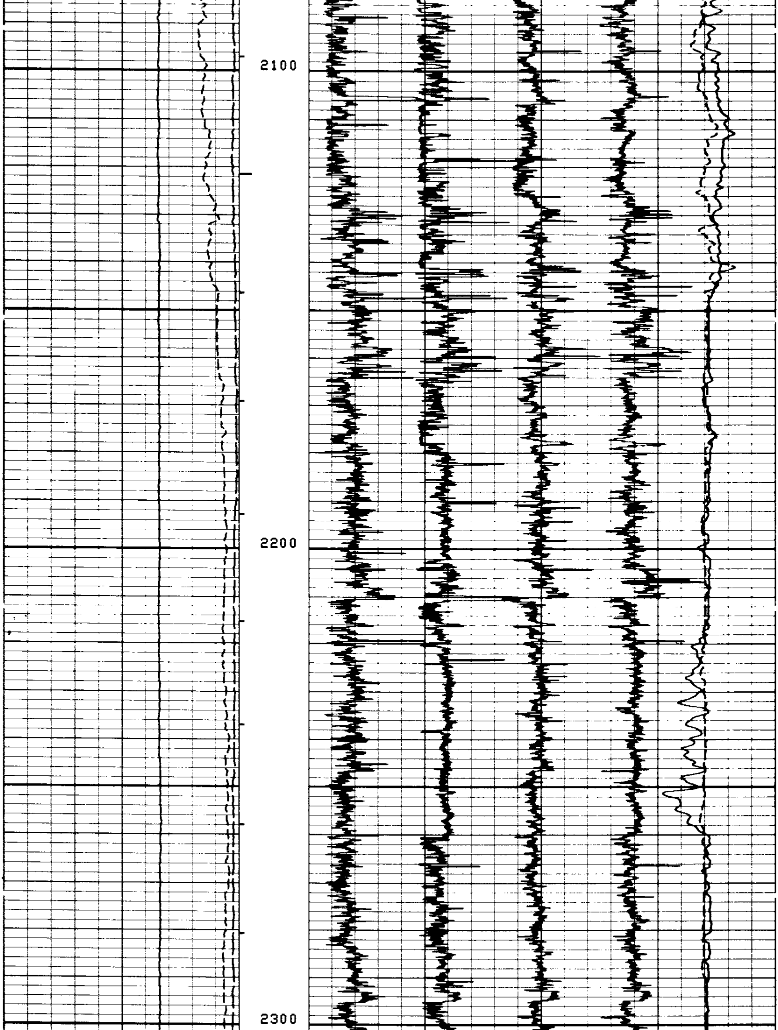

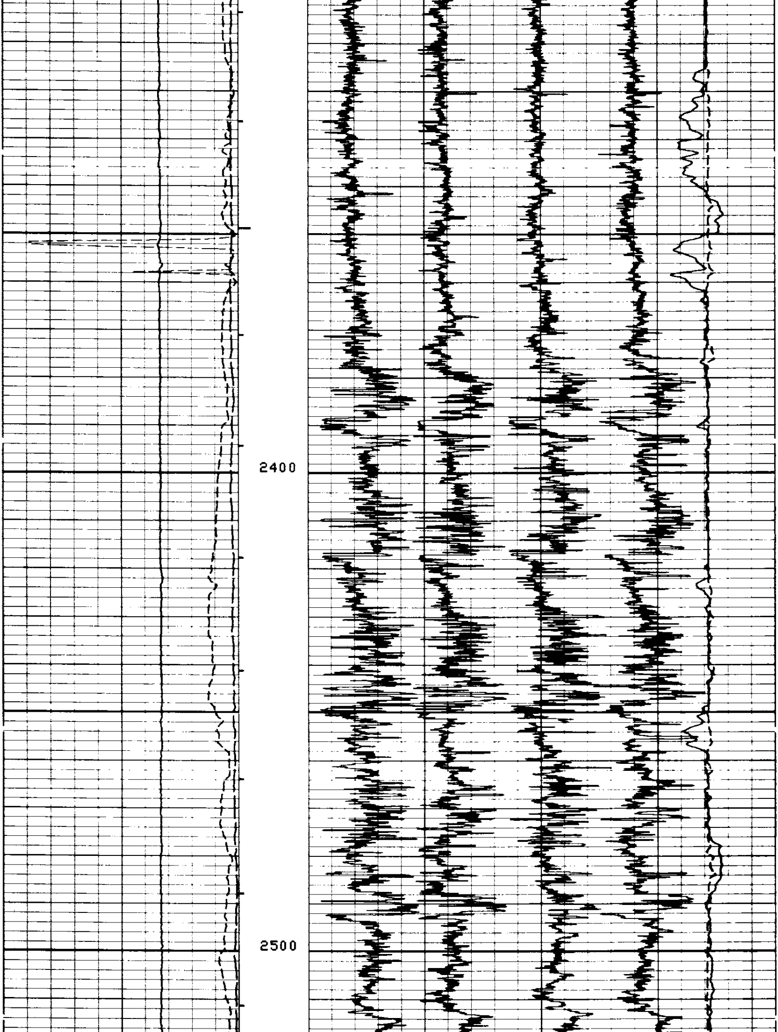

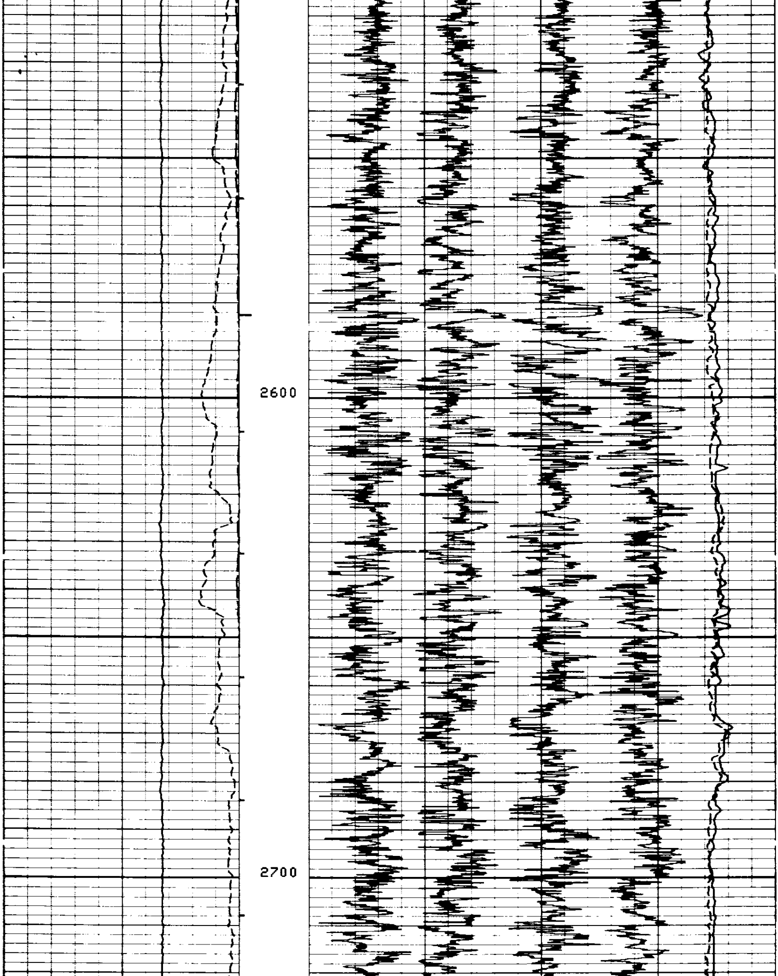

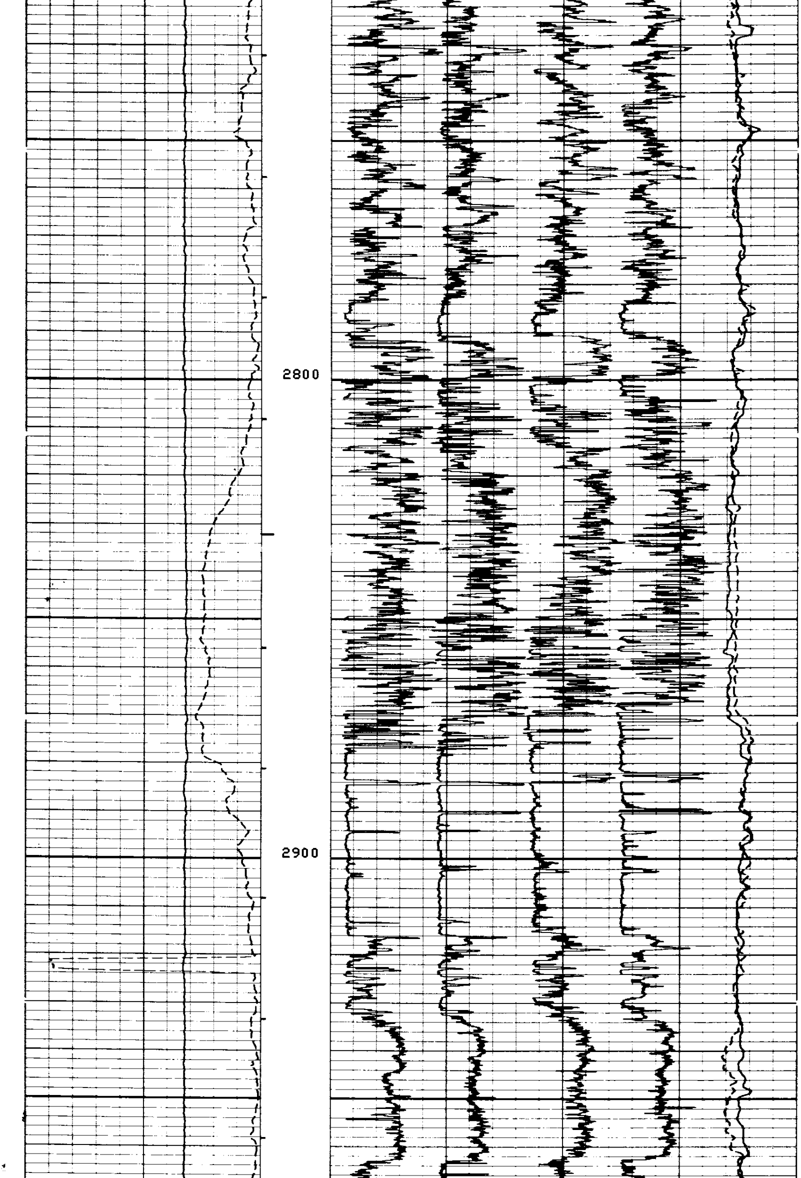

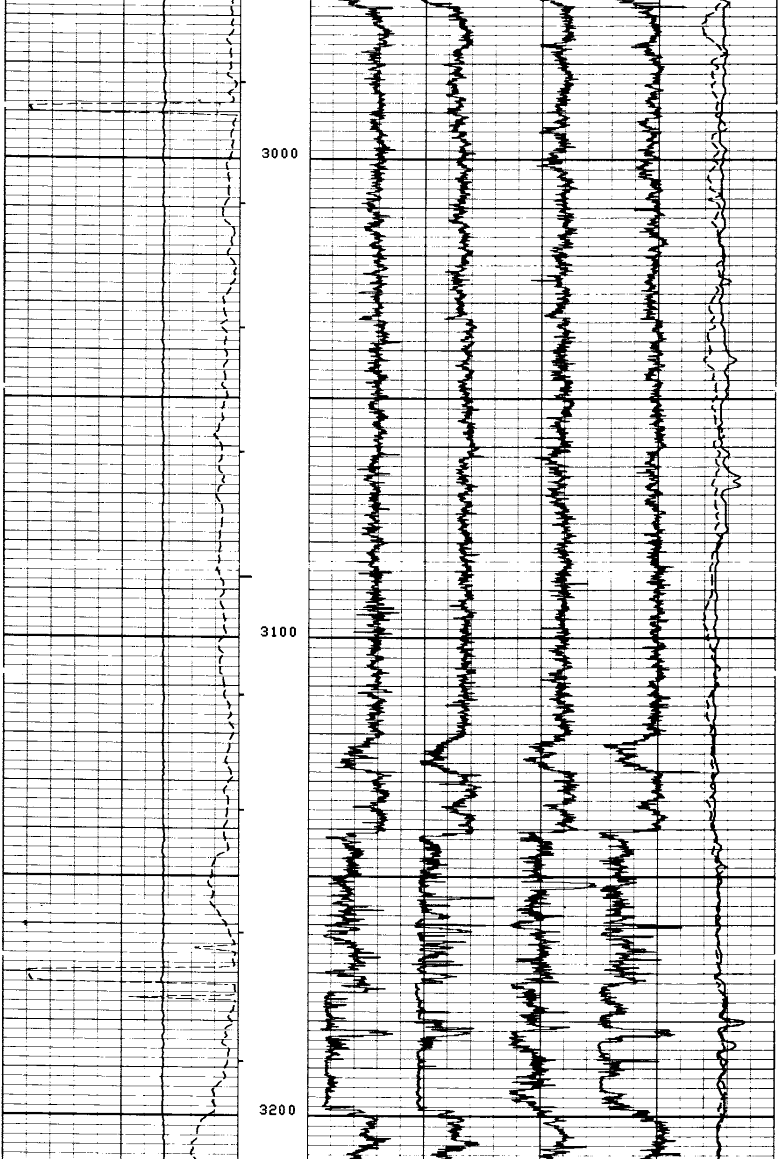

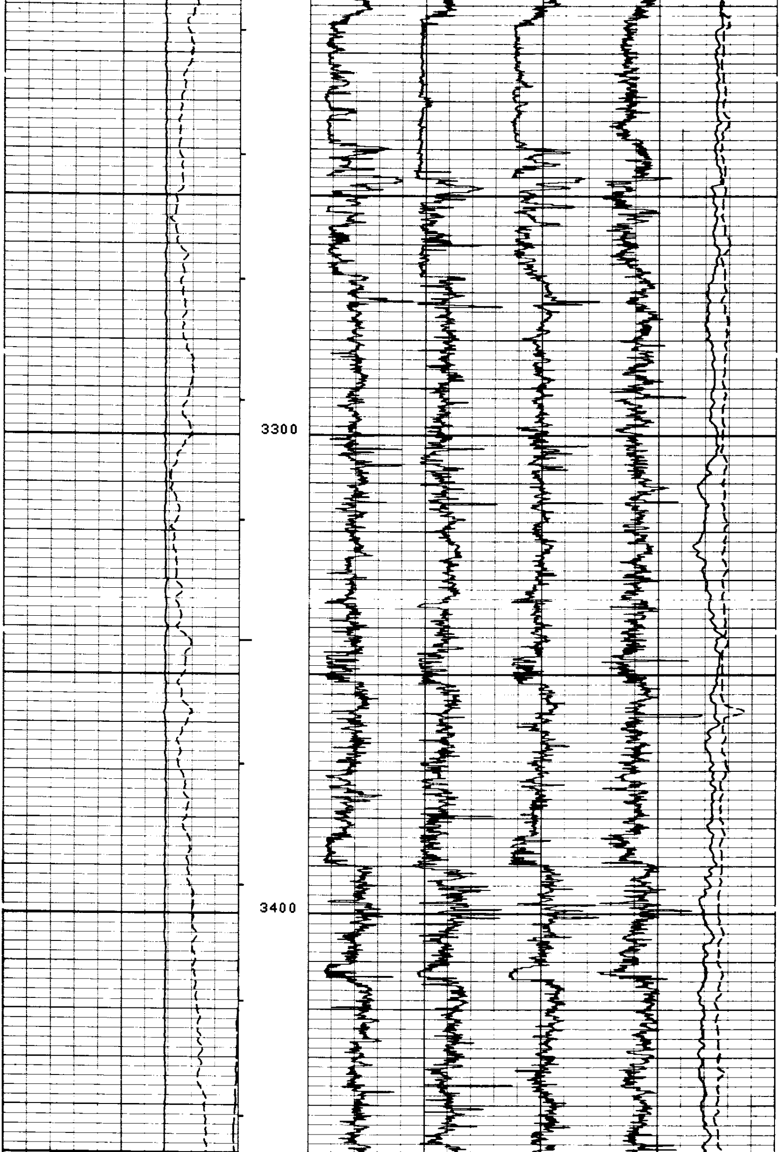

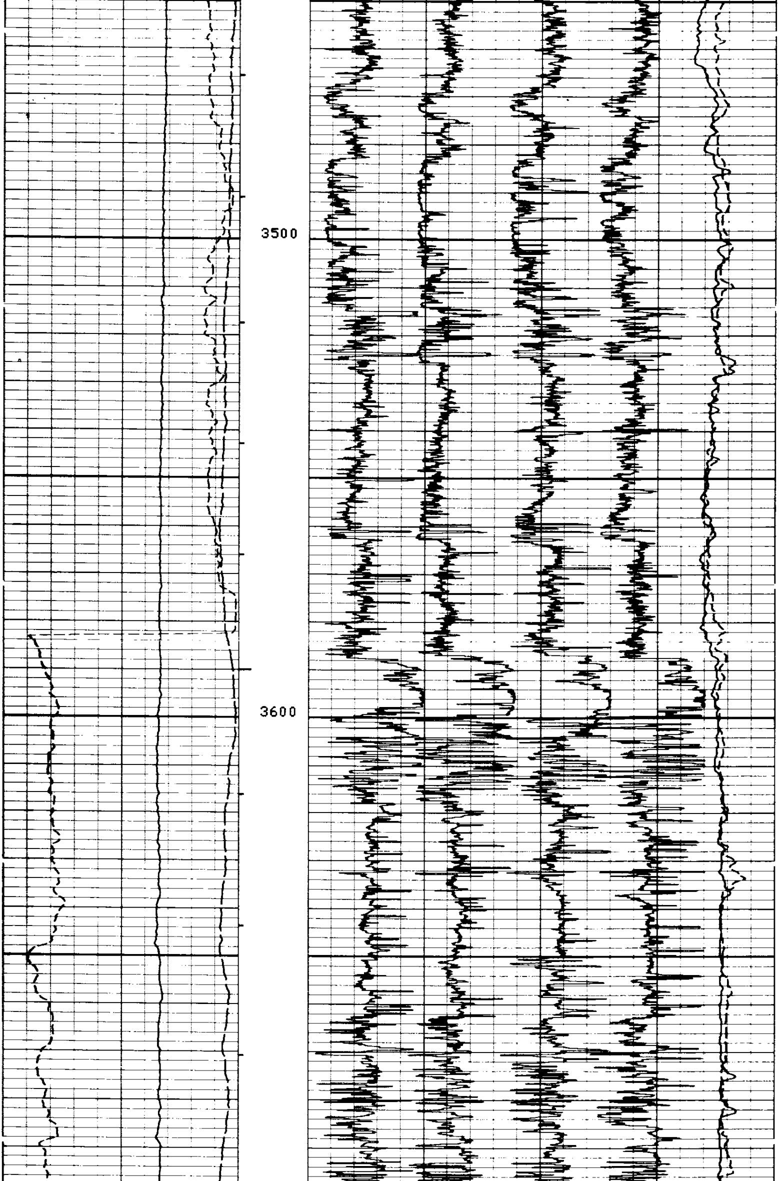

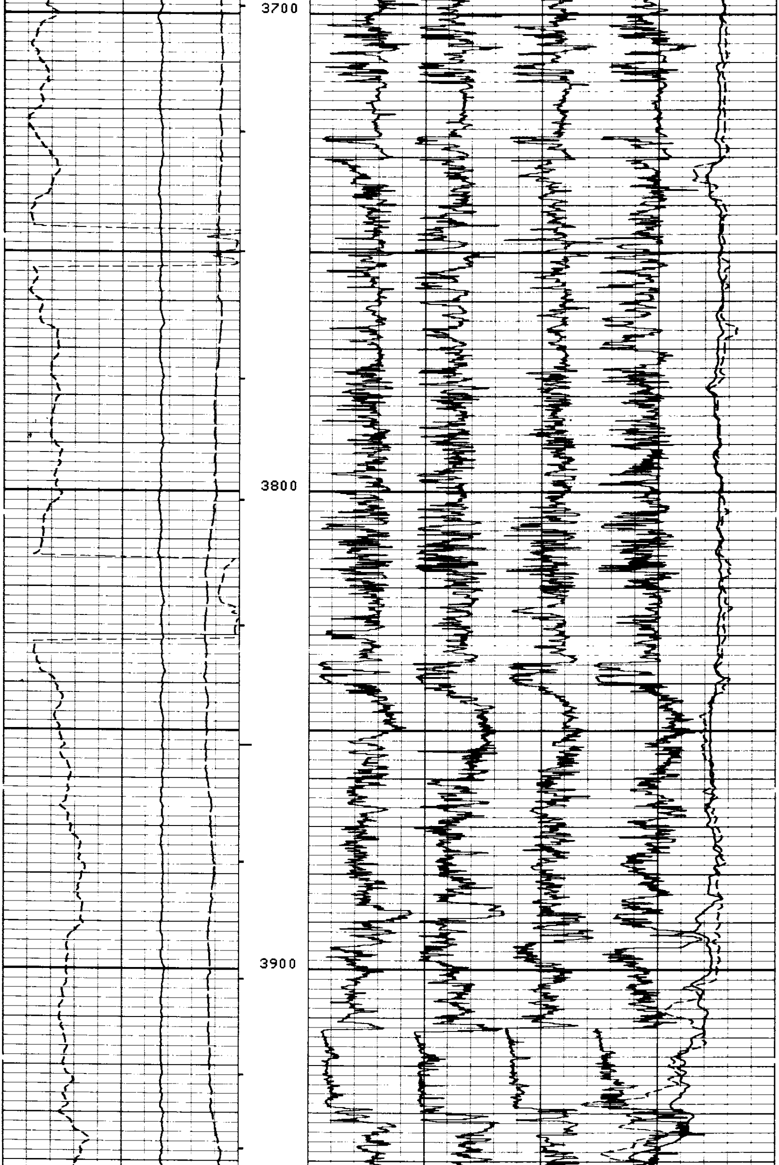

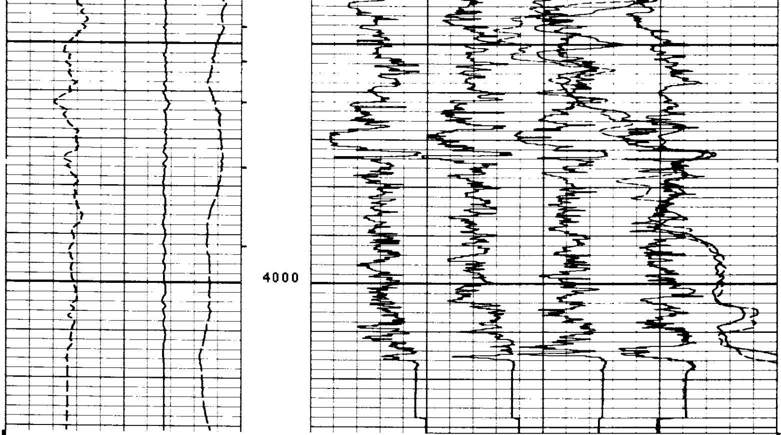

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DEVI(DEG)			
-1.000	9.0000		
RB (DEG)		C2 (IN)	
-40.00	360.00	26.000	6.0000
AZIM(DEG)		C1 (IN)	
-40.00	360.00	26.000	6.0000

SENSOR MEASURE POINT TO TOOL ZERO

C1	0.0	FEET	C2	0.0	FEET
PP	0.0	FEET	TEMP	0.0	FEET
RC	0.0	FEET	EMEX	0.0	FEET
FEP2	0.0	FEET	REFE	0.0	FEET
DEVI	0.0	FEET	FEP1	0.0	FEET
AZIM	0.0	FEET	RB	0.0	FEET
RC1	0.0	FEET	RC2	0.0	FEET
SHDT	0.0	FEET	TENS	0.0	FEET
FC3	0.0	FEET	FC4	0.0	FEET
FC1	0.0	FEET	FC2	0.0	FEET
FC0	0.0	FEET			

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
MCT	72		MDEC	21	DEG
BHS	OPEN		STYP	HDSD	
BS	8.50000	IN			

DEVI(DEG)
-1.000 9.0000
RB (DEG)
-40.00 360.00
AZIM(DEG)
-40.00 360.00

C2 (IN)
26.000 6.0000
C1 (IN)
26.000 6.0000

REPEAT SECTION

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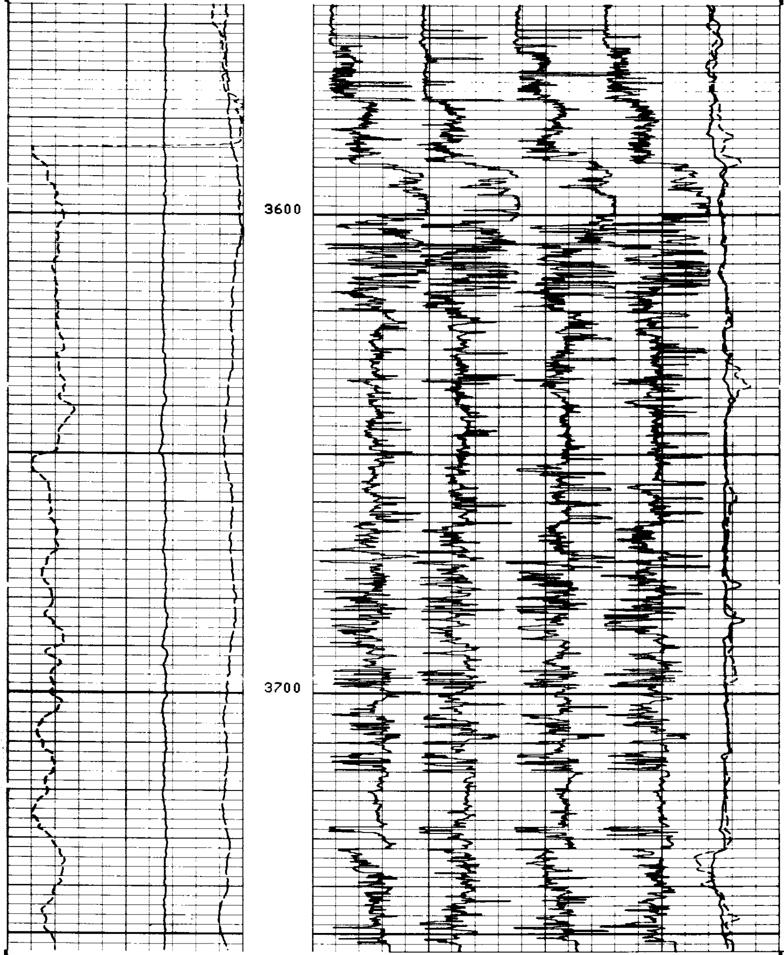

CP 28.4A FILE 1 25-OCT-86 05:30 **REPEAT SECTION**

DEVI(DEG)		C2 (IN)	
-1.000	9.0000	26.000	6.0000
RB (DEG)		C1 (IN)	
-40.00	360.00	26.000	6.0000
AZIM(DEG)			
-40.00	360.00		

SENSOR MEASURE POINT TO TOOL ZERO

C1	0.0	FEET	C2	0.0	FEET
PP	0.0	FEET	TEMP	0.0	FEET
RC	0.0	FEET	EMEX	0.0	FEET
FEP2	0.0	FEET	REFE	0.0	FEET
DEVI	0.0	FEET	FEP1	0.0	FEET
AZIM	0.0	FEET	RB	0.0	FEET
RC1	0.0	FEET	RC2	0.0	FEET
SHDT	0.0	FEET	TENS	0.0	FEET
FC3	0.0	FEET	FC4	0.0	FEET
FC1	0.0	FEET	FC2	0.0	FEET
FC0	0.0	FEET			

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
MCT	72		MDEC	21	DEG
BHS	OPEN		STYP	HDSD	
BS	8.50000	IN			

DEVI(DEG)		C2 (IN)	
-1.000	9.0000	26.000	6.0000
RB (DEG)		C1 (IN)	
-40.00	360.00	26.000	6.0000
AZIM(DEG)			
-40.00	360.00		

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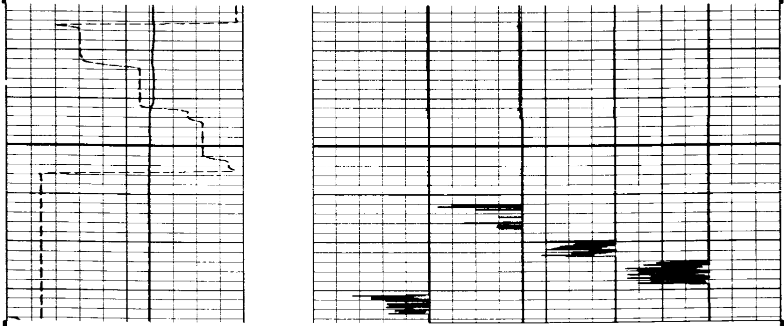

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       DEVI(DEG )
-1.000              9.0000
       RB  (DEG )                                                  C2  (IN  )
-40.00              360.00      26.000                                                  6.0000
       AZIM(DEG )                                                  C1  (IN  )
-40.00              360.00      26.000                                                  6.0000
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                         SENSOR MEASURE POINT TO TOOL ZERO

         C1     0.0  FEET                              C2    0.0  FEET
         PP     0.0  FEET                              TEMP  0.0  FEET
         RC     0.0  FEET                              EMEX  0.0  FEET
         FEP2   0.0  FEET                              REFE  0.0  FEET
         DEVI   0.0  FEET                              FEP1  0.0  FEET
         AZIM   0.0  FEET                              RB    0.0  FEET
         RC1    0.0  FEET                              RC2   0.0  FEET
         SHDT   0.0  FEET                              TENS  0.0  FEET
         FC3    0.0  FEET                              FC4   0.0  FEET
         FC1    0.0  FEET                              FC2   0.0  FEET
         FC0    0.0  FEET
```

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                                  PARAMETERS

        NAME  VALUE       UNIT                      NAME  VALUE       UNIT

        MCT   72                                    MDEC 0            DEG
        BHS   OPEN                                  STYP HDSD
        BS    8.50000     IN
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                 BEFORE SURVEY CALIBRATION SUMMARY


     PERFORMED:     18-OCT-86 14:06
     PROGRAM FILE: HDT    (VERSION    28.4A   85/11/11)


   HDTD                 CALIPER CALIBRATION SUMMARY

                 MEASURED                      CALIBRATED
               SMALL    LARGE                 SMALL     LARGE        UNITS
        C1     8.48     13.2                  8.00      12.0          IN
        C2     8.59     13.2                  8.00      12.0          IN

      CP 28.4A          FILE    0         18-OCT-86 14:06
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COMPANY ARCO OIL AND GAS COMPANY

WELL COLUMBIA COUNTY 31-8

FIELD MIST GAS FIELD

COUNTY COLUMBIA STATE OREGON

SCHL. FR 4020
SCHL. TD 4020
DRLR. TD 4054

Elev: KB 725.9
DF 724.9
GL 714.9