ogy

Schlumberger

BHC SONIC 2" & 5"

CSU Field Log

```
COMPANY:     ARCO OIL AND GAS

WELL:        CAVENHAM FOREST IND. #41-9 RD# 1

FIELD:       MIST
COUNTY:      COLUMBIA
STATE:       OREGON
NATION:      USA
LOCATION:    1244.46' SOUTH AND 355.73' WEST
             FROM THE NE CORNER OF:
SEC: 9            TWP: 5 NORTH      RGE: 4 WEST


PERMANENT DATUM:          GL           ELEVATIONS-
ELEV. OF PERM. DATUM:     835.9 F        KB:   846.9 F
LOG MEASURED FROM:        KB             DF:   845.9 F
     11.0 F     ABOVE PERM. DATUM        GL:   835.9 F
DRLG. MEASURED FROM:      KB


DATE:           13 OCT 86
RUN NO:         ONE

DEPTH-DRILLER:        2501.0 F
DEPTH-LOGGER:         2501.0 F
BTM. LOG INTERVAL:    2459.0 F
TOP LOG INTERVAL:      470.0 F

CASING-DRILLER:        470.0 F
CASING-LOGGER:         470.0 F
CASING:               9 5/8"
   WEIGHT:            47.0000 LB/F
BIT SIZE:             8 1/2"
   DEPTH:             2501.0 F
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OTHER SERVICES-
  DIL/BHC


  WST




PROGRAM
TAPE NO:
  28.4A
SERVICE
ORDER NO:
  524312
```

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TYPE FLUID IN HOLE:     DISPERSED
DENSITY:                  9.50 LB/G
VISCOSITY:              41.0 S
PH:                     11.3
FLUID LOSS:               5.2 C3
SOURCE OF SAMPLE:       FLOWLINE
RM:                       2.010 OHMM AT 78.0 DEGF
RMF:                      2.320 OHMM AT 68.0 DEGF
RMC:                      2.610 OHMM AT 67.0 DEGF
SOURCE RMF/RMC:         MEAS/MEAS
RM AT BHT:                1.643 OHMM AT 97.0 DEGF
RMF AT BHT:               1.673 OHMM AT 97.0 DEGF
RMC AT BHT:               1.857 OHMM AT 97.0 DEGF

TIME CIRC. STOPPED:     1530 10/13
TIME LOGGER ON BTM.:    1900 10/13

MAX. REC. TEMP:           97.0 DEGF

LOGGING UNIT NO:        8128
LOGGING UNIT LOC:       SACRAMENTO
RECORDED BY:            BLAZE
WITNESSED BY:           JACKSON
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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.

CP 28.4A FILE 2 13-OCT-86 20:08
DATA ACQUIRED 13-OCT-86 19:51

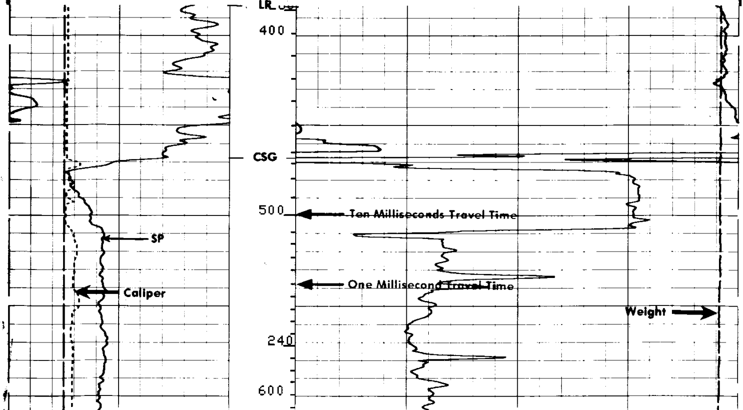
EVENT MARK SUMMARY:

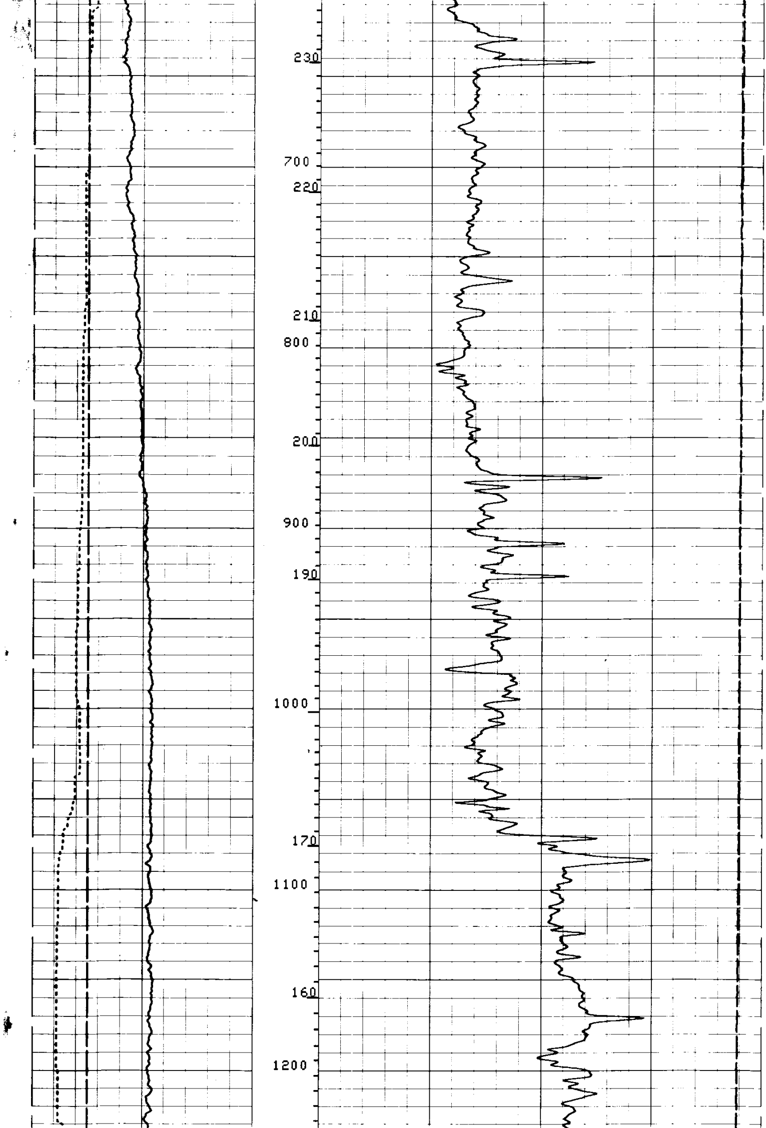
OUTPUT	INTERVAL BETWEEN PIPS	DEPTH TRACK EDGE
ITT	.00100000 S	RIGHT EDGE

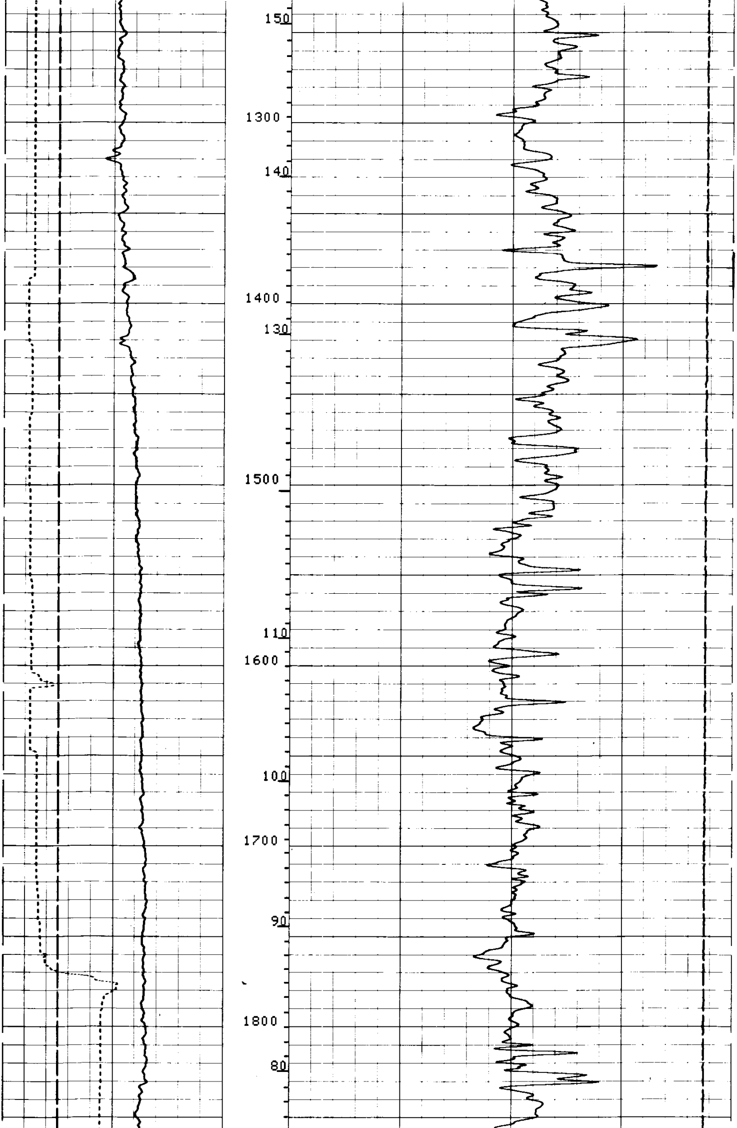
BS (IN)
6.0000 16.000
CALI(IN)
6.0000 16.000
SP (MV)
-100.0 0.0

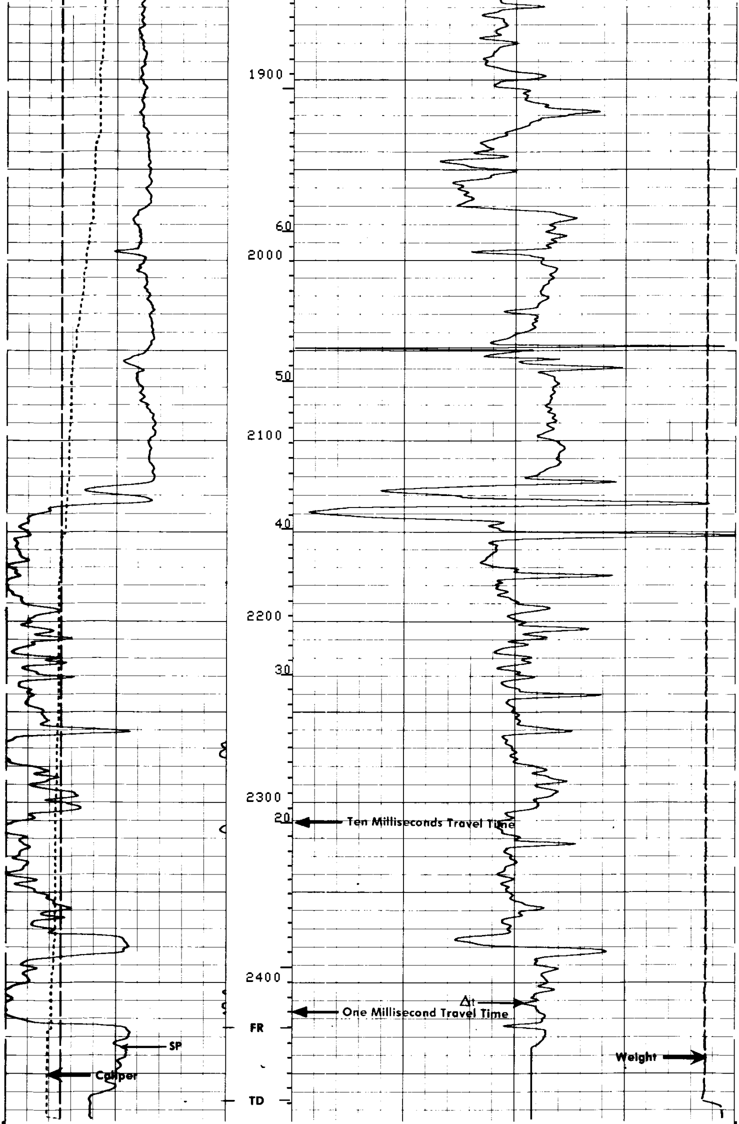
TENS(LB)
10000. 0.0
DT (US/F)
175.00 75.000

CP 28.4A FILE 2 13-OCT-86 20:02
DATA ACQUIRED 13-OCT-86 19:51









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CP 28.4A          FILE      2         13-OCT-86 19:58
                  DATA ACQUIRED       13-OCT-86 19:05
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BS (IN)
6.0000 16.000
CALI(IN)
6.0000 16.000
SP (MV)
-100.0 0.0

TENS(LB)
10000. 0.0
DT (US/F)
175.00 75.000

SENSOR MEASURE POINT TO TOOL ZERO

SRAT	41.4	FEET	AMPL	43.9	FEET
TT1	42.9	FEET	CBL	43.9	FEET
TT3	40.2	FEET	TT2	43.9	FEET
T0	43.9	FEET	TT4	39.2	FEET
SLTT	43.9	FEET	TT	43.9	FEET
CALI	31.8	FEET	SCBL	43.9	FEET
ILM	5.8	FEET	ILD	9.4	FEET
SP	2.5	FEET	SFL	6.4	FEET
TENS	2.5	FEET	SPAR	2.5	FEET
NOIS	2.5	FEET			

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
CDTS	100.000		SPFS	R-H	
DTF	189.000	US/F	DTM	56.0000	US/F
DSIN	5	US	DDEL	200	US
DSEC	9.40000	MMHO	DWCO	512	
MSEC	2.90000	MMHO	SBR	1.00000	OHMM
BHS	OPEN		FPHI	SPHI	
DO	0.0	F	BS	8.50000	IN
PP	NORM				

TAPE NOT MADE

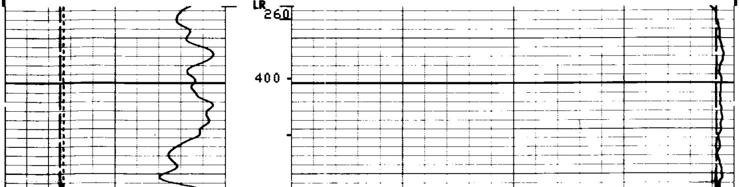
EVENT MARK SUMMARY:

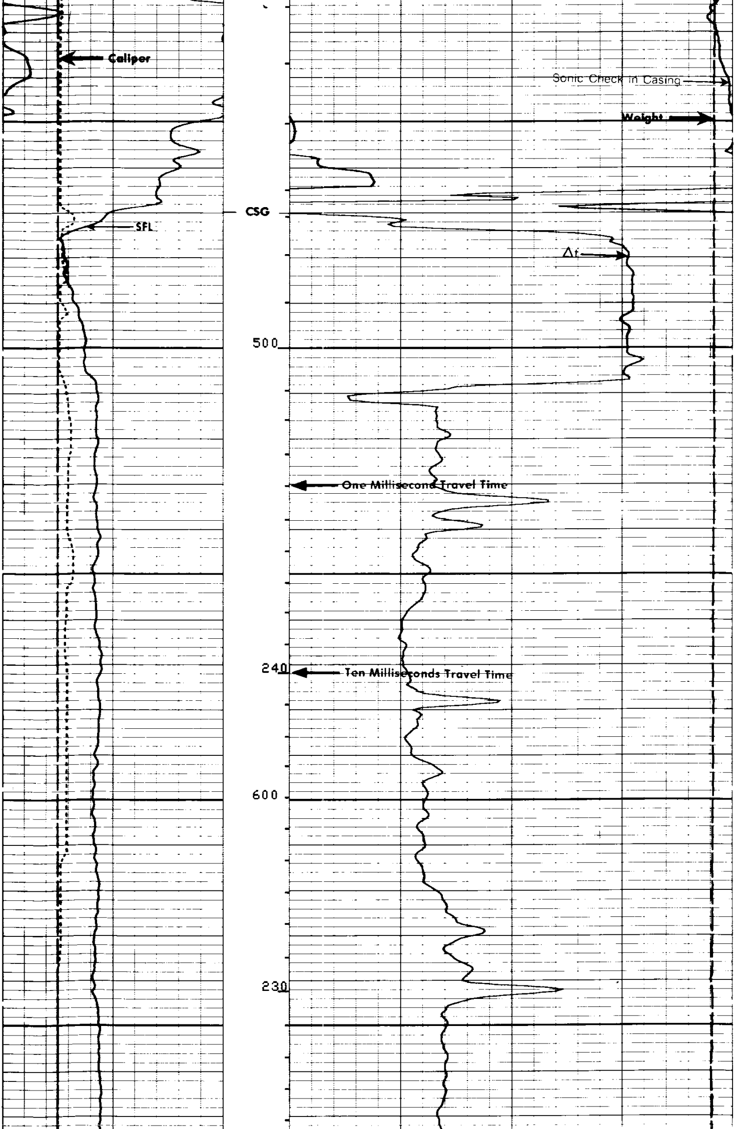
OUTPUT	INTERVAL BETWEEN PIPS	DEPTH TRACK EDGE
ITT	.00100000 S	RIGHT EDGE

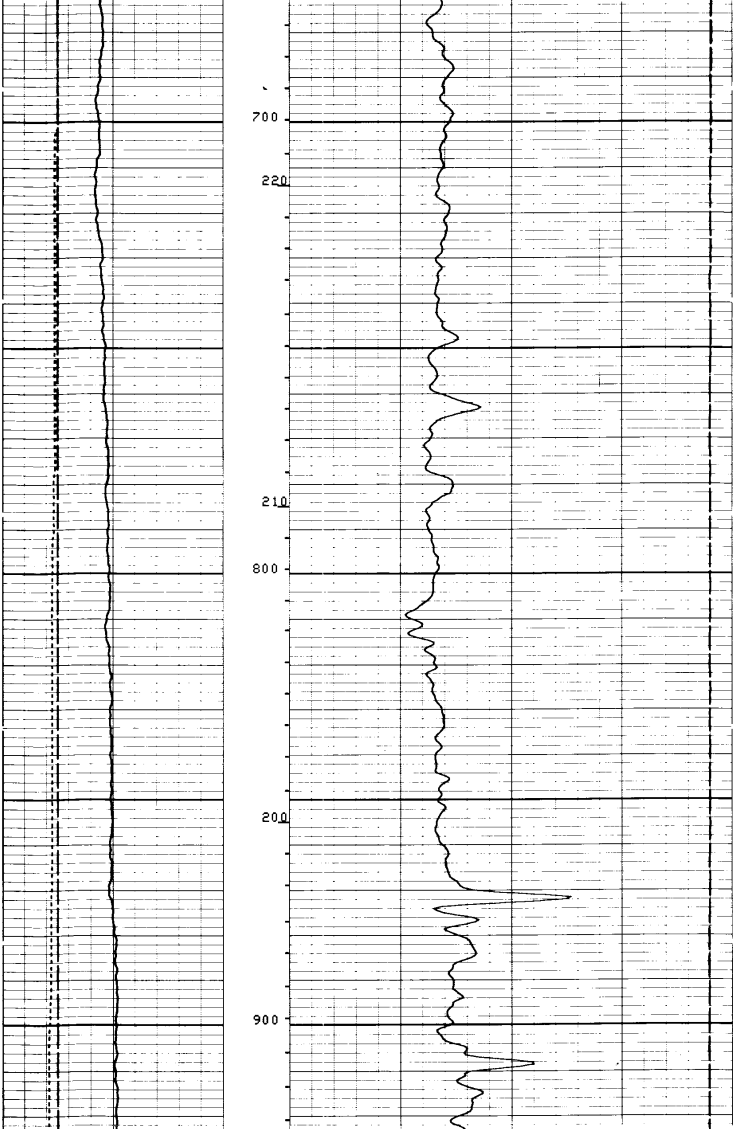
BS (IN)
6.0000 16.000
CALI(IN)
6.0000 16.000
SP (MV)
-100.0 0.0

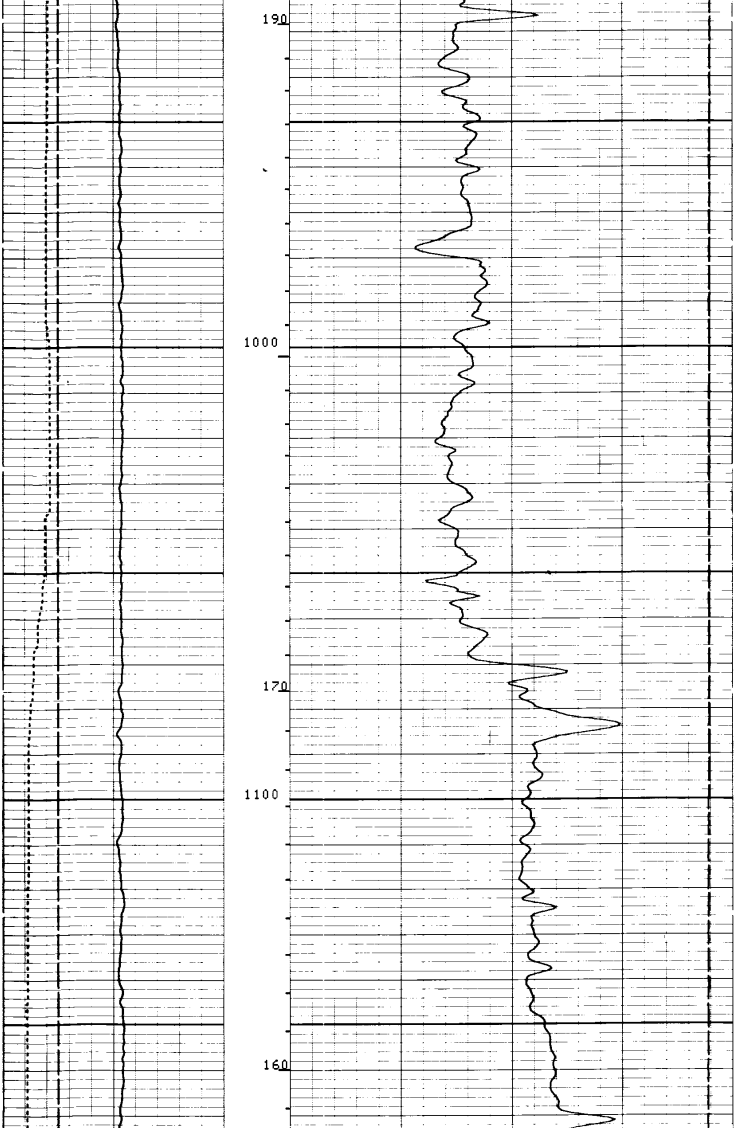
TENS(LB)
10000. 0.0
DT (US/F)
175.00 75.000

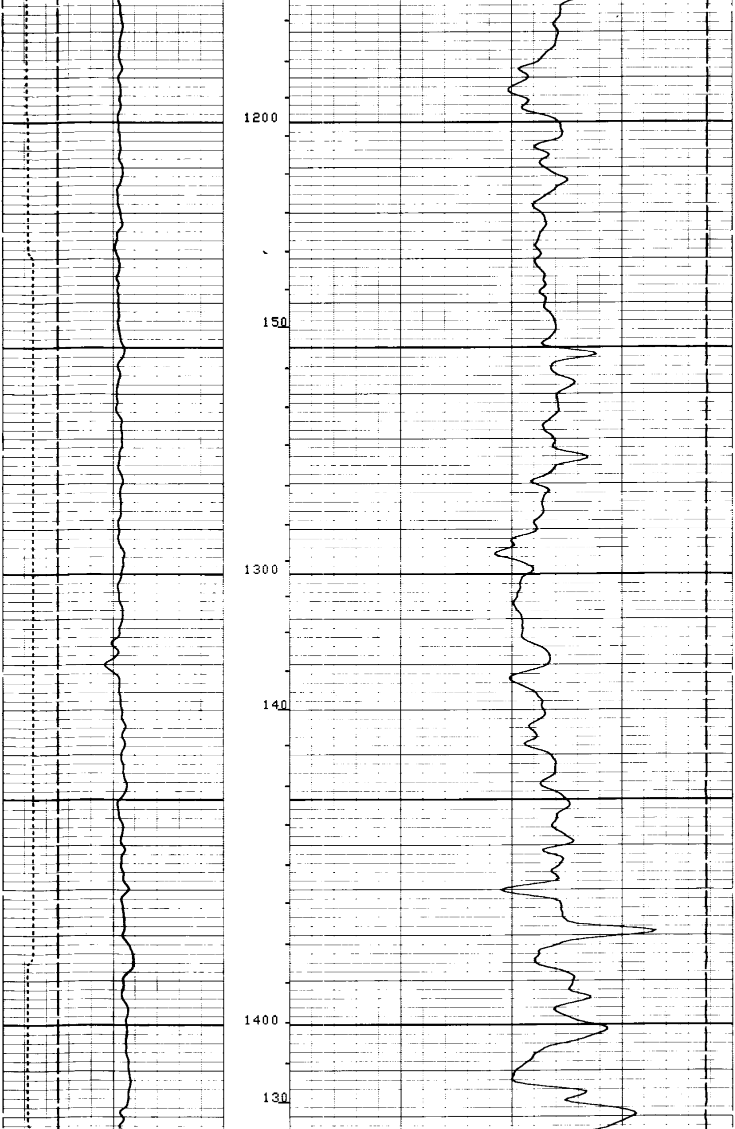
CP 28.4A FILE 2 13-OCT-86 19:51

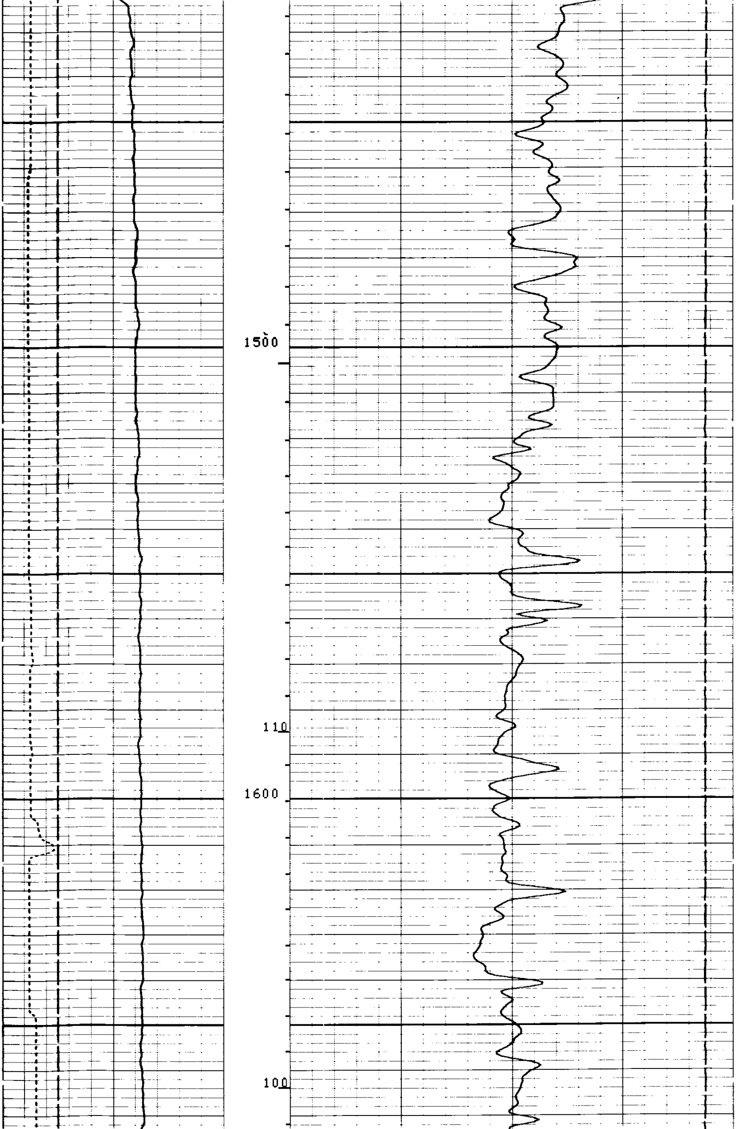


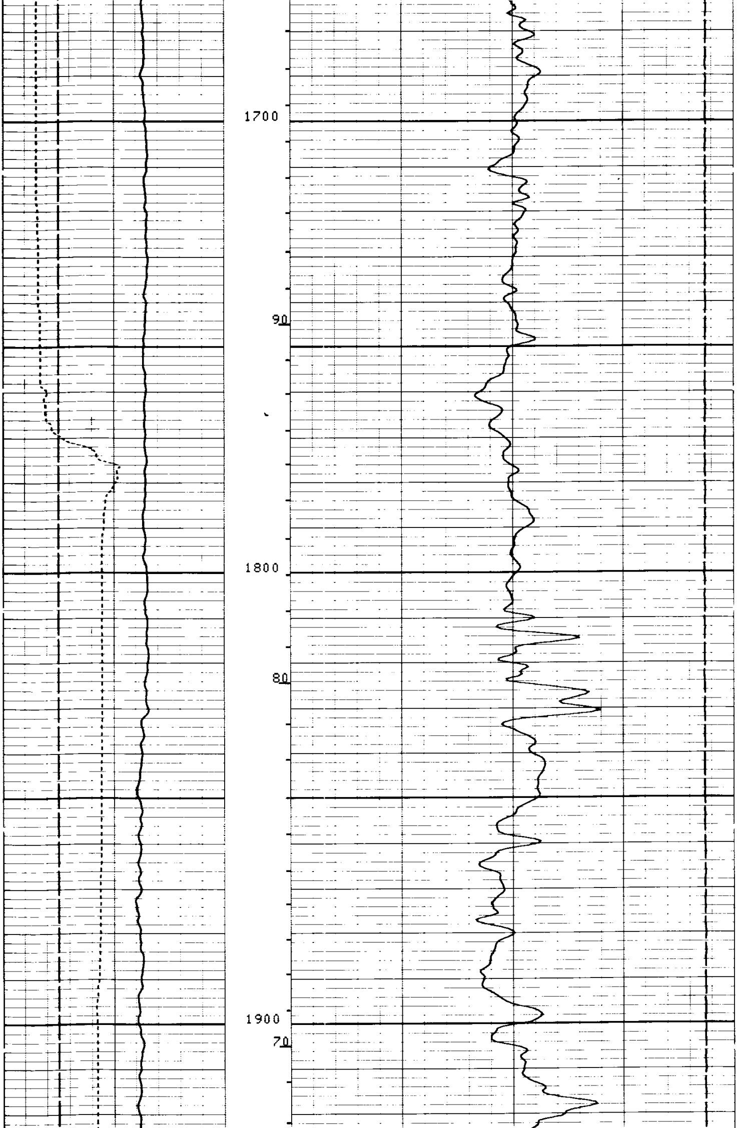


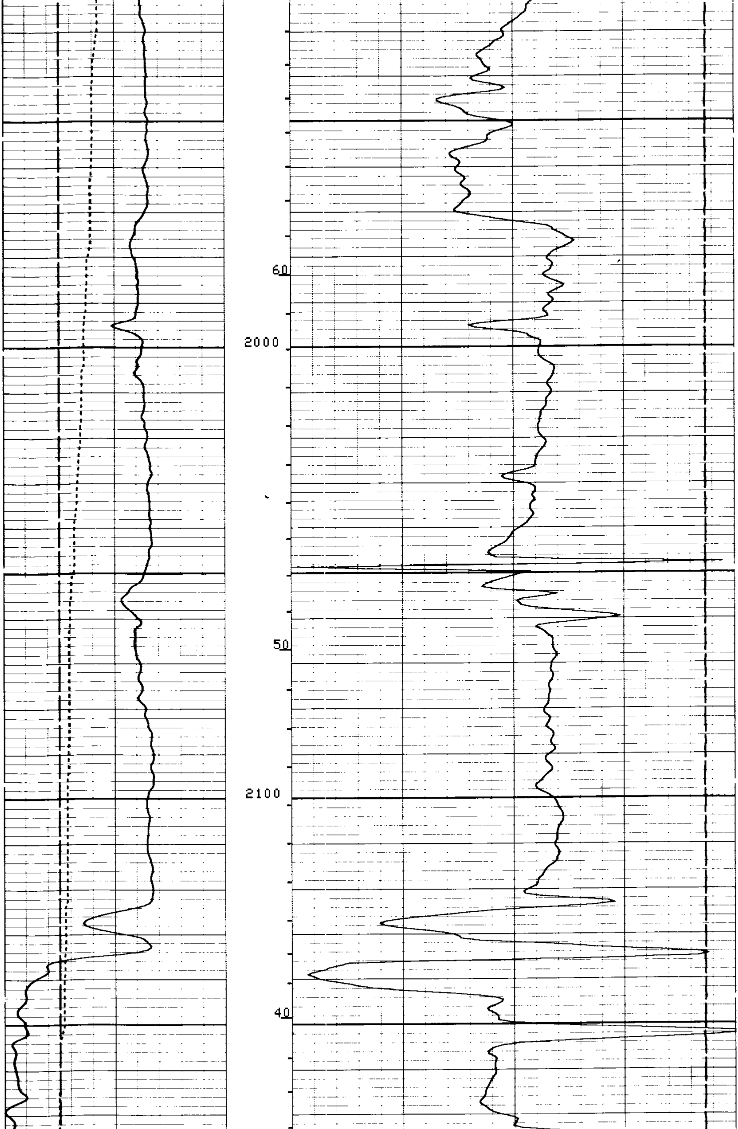


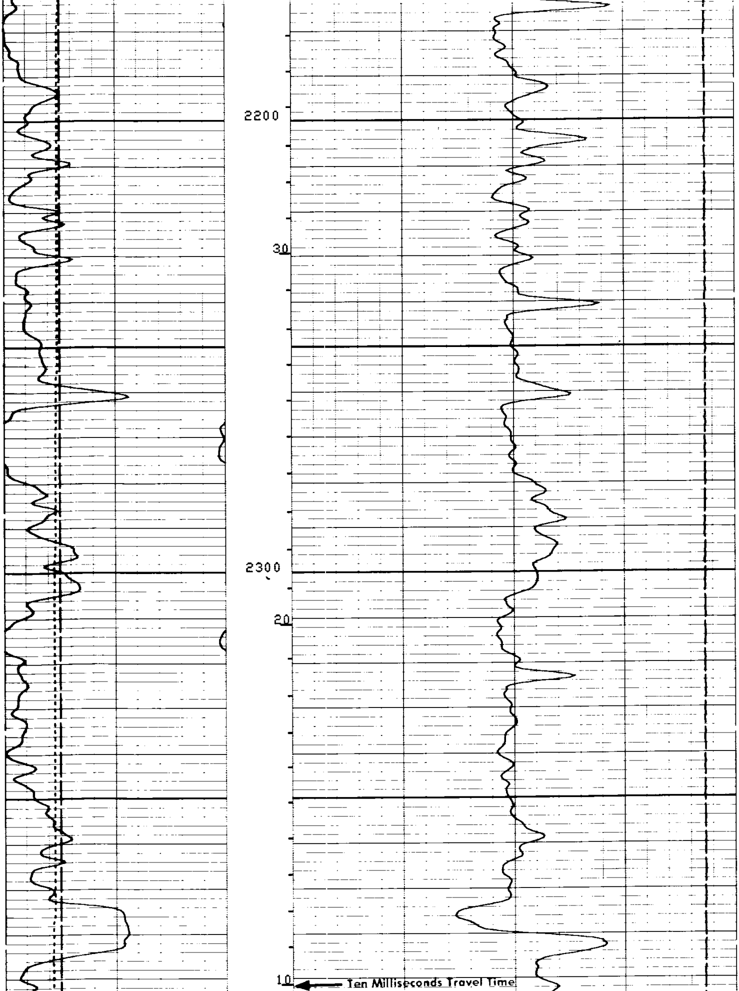


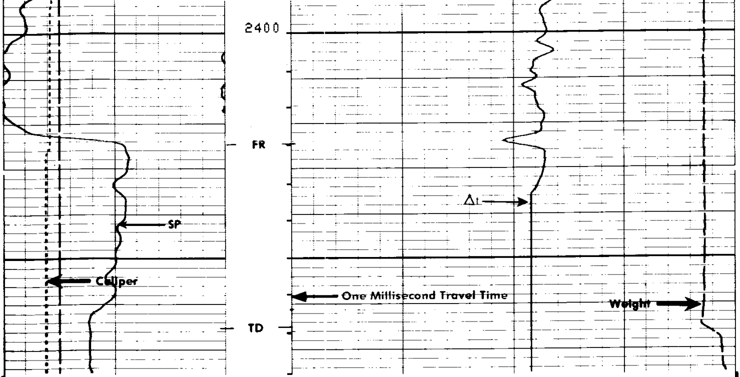












CP 28.4A FILE 2 13-OCT-86 19:05

Curve	Left	Right
BS (IN)	6.0000	16.000
CALI(IN)	6.0000	16.000
SP (MV)	-100.0	0.0
TENS(LB)	10000.	0.0
DT (US/F)	175.00	75.000

SENSOR MEASURE POINT TO TOOL ZERO

SRAT	41.4	FEET	AMPL	43.9	FEET
TT1	42.9	FEET	CBL	43.9	FEET
TT3	40.2	FEET	TT2	43.9	FEET
T0	43.9	FEET	TT4	39.2	FEET
SLTT	43.9	FEET	TT	43.9	FEET
CALI	31.8	FEET	SCBL	43.9	FEET
ILM	5.8	FEET	ILD	9.4	FEET
SP	2.5	FEET	SFL	6.4	FEET
TENS	2.5	FEET	SPAR	2.5	FEET
NOIS	2.5	FEET			

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
CDTS	100.000		SPFS	R-H	
DTF	189.000	US/F	DTM	56.0000	US/F
DSIN	5	US	DDEL	200	US
DSEC	9.40000	MMHO	DWCO	512	
MSEC	2.90000	MMHO	SBR	1.00000	OHMM
BHS	OPEN		FPHI	SPHI	
BS	8.50000	IN			

EVENT MARK SUMMARY:

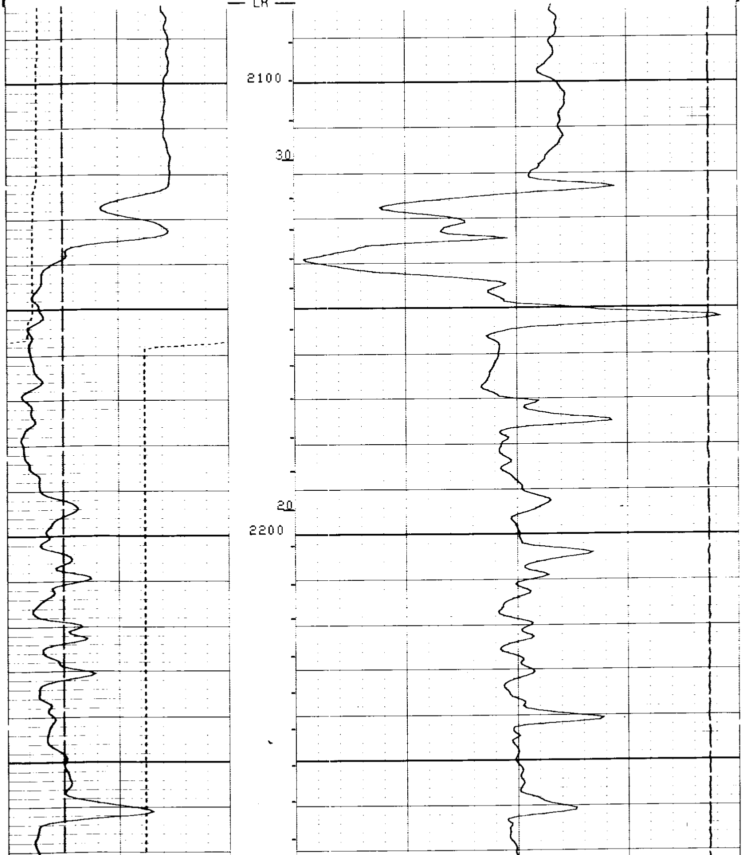
OUTPUT	INTERVAL BETWEEN PIPS	DEPTH TRACK EDGE
ITT	.00100000 S	RIGHT EDGE

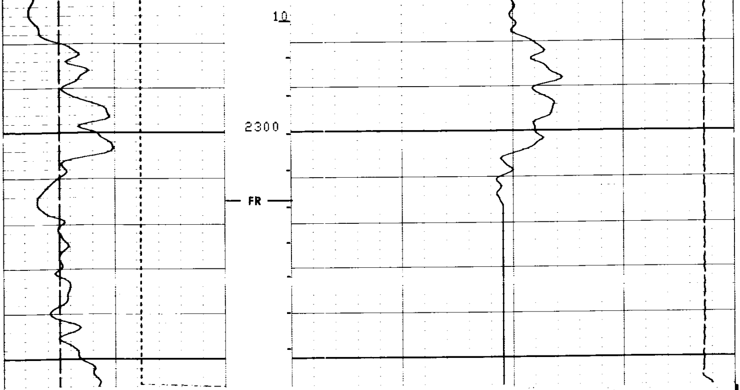
BS (IN)
6.0000 16.000
CALI(IN)
6.0000 16.000
SP (MV)
-100.0 0.0

TENS(LB)
10000. 0.0
DT (US/F)
175.00 75.000

REPEAT SECTION

CP 28.4A FILE 1 13-OCT-86 18:54





CP 28.4A FILE 1 13-OCT-86 18:49 **REPEAT SECTION**

BS (IN)
6.0000 16.000
CALI(IN)
6.0000 16.000
SP (MV)
-100.0 0.0

TENS(LB)
10000. 0.0
DT (US/F)
175.00 75.000

SENSOR MEASURE POINT TO TOOL ZERO

SRAT	41.4	FEET	AMPL	43.9	FEET
TT1	42.9	FEET	CBL	43.9	FEET
TT3	40.2	FEET	TT2	43.9	FEET
T0	43.9	FEET	TT4	39.2	FEET
SLTT	43.9	FEET	TT	43.9	FEET
CALI	31.8	FEET	SCBL	43.9	FEET
ILM	5.8	FEET	ILD	9.4	FEET
SP	2.5	FEET	SFL	6.4	FEET
TENS	2.5	FEET	SPAR	2.5	FEET
NOIS	2.5	FEET			

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
CDTS	100.000		SPFS	R-H	
DTF	189.000	US/F	DTM	56.0000	US/F
DSIN	5	US	DDEL	200	US
DSEC	9.40000	MMHO	DWCO	512	
MSEC	2.90000	MMHO	SBR	1.00000	OHMM
BHS	OPEN		FPHI	SPHI	
BS	8.50000	IN			