Scanned

Schlumberger

BOREHOLE COMPENSATED SONIC LOG

COUNTY	COLUMBIA
FIELD	MIST
LOCATION	SEE REMARKS
WELL	FOSTER 42-30-65
COMPANY	ARCO OIL AND GAS COMPANY

COMPANY ARCO OIL AND GAS COMPANY

WELL FOSTER 42-30-65

FIELD MIST

COUNTY COLUMBIA **STATE** OREGON

LOCATION	SEE REMARKS		Other Services: LDT CNL SHDT CST
API SERIAL NO.	SECT. 30	TWP. 6N	RANGE 5W

Permanent Datum	GL	Elev. 646.5 F	Elev.: K.B. 656.5 F
Log Measured From	KB	11.0 F above Perm. Datum	D.F. 656.5 F
Drilling Measured From	KB		G.L. 646.5 F

Date	22-NOV-87			
Run No.	ONE			
Depth Driller	2658.0 F			
Depth Logger (Schl.)				
Btm. Log Interval	2137.0 F			
Top Log Interval	474.0 F			
Casing-Driller	9 5/8 @ 473.0 F	@	@	@
Casing-Logger	474.0 F			
Bit Size	8 1/2			
Type Fluid in Hole	DRISPAC			
Dens. | Visc.	11.40 LB/G | 40.0 S			
pH | Fld. Loss	9.5 | 5.8 C3			
Source of Sample	FLOWLINE			
Rm @ Meas. Temp.	2.320 OHMM @ 57.0 DEGF		@	
Rmf @ Meas. Temp.	3.240 OHMM @ 46.0 DEGF		@	
Rmc @ Meas. Temp.	4.910 OHMM @ 46.0 DEGF		@	
Source: Rmf | Rmc	MEAS | MEAS			
Rm @ BHT	2.117 OHMM @ 96.0 DEGF		@	
TIME: Circulation Ended	20:00 11/22			
TIME: Logger on Bottom	2:46			
Max. Rec. Temp.	96.0 DEGF			
Equip. | Location	8504 | SACRAMENTO			
Recorded By	KUNKLER			
Witnessed By	ANDERSON			

FOLD HERE

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

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 interpretations made by any of our officers, agents or employees. These interpretations are also subject to Clause 4 of our General Terms and Conditions as set out in our current Price Schedule.

Run No.	ONE	
Service Order No.	506377	
Drilling Fluid Level	0.0 F	
Salinity	50.0 PPM	
Rmf @ BHT	1.667 OHMM @ 96.0 DEGF	@
Rmc @ BHT	2.527 OHMM @ 96.0 DEGF	@
Logging Speed	3600.0 F/HR	
Equipment Data		
Tool Number 1	DIS 2179	
Tool Number 2	DIC 2230	
Tool Number 3	SLS 375	
Tool Number 4	SLC 1259	
Tool Number 5	MCD 305	
Tool Number 6	EM 304	
Tool Number 7	SLM 443	
Tool Number 8		
Tool Number 9		
Tool Number 10		
Tool Number 11		
Tool Number 12		

REMARKS:

SO. 0 DEG 39'38"
E 2302.67'
SO. 89 DEG 20'22"
W 621.59'
DIL AND SONIC RUN IN COMBINATION.
1.5 INCH STANDOFFS USED ON DIL.

FILES SPLICED	SPLICE DEPTH
2 TO 3	1701.5 F

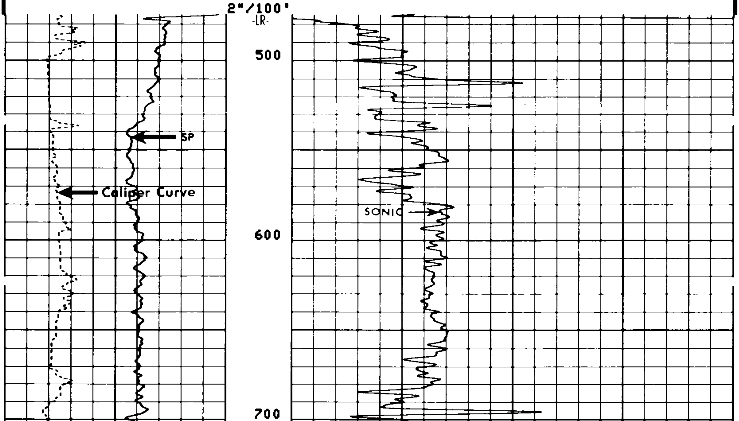
CEMENT VOLUME = 492.287 F3
HOLE VOLUME = 851.961 F3
FROM 2656.0 TO 476.0 FEET

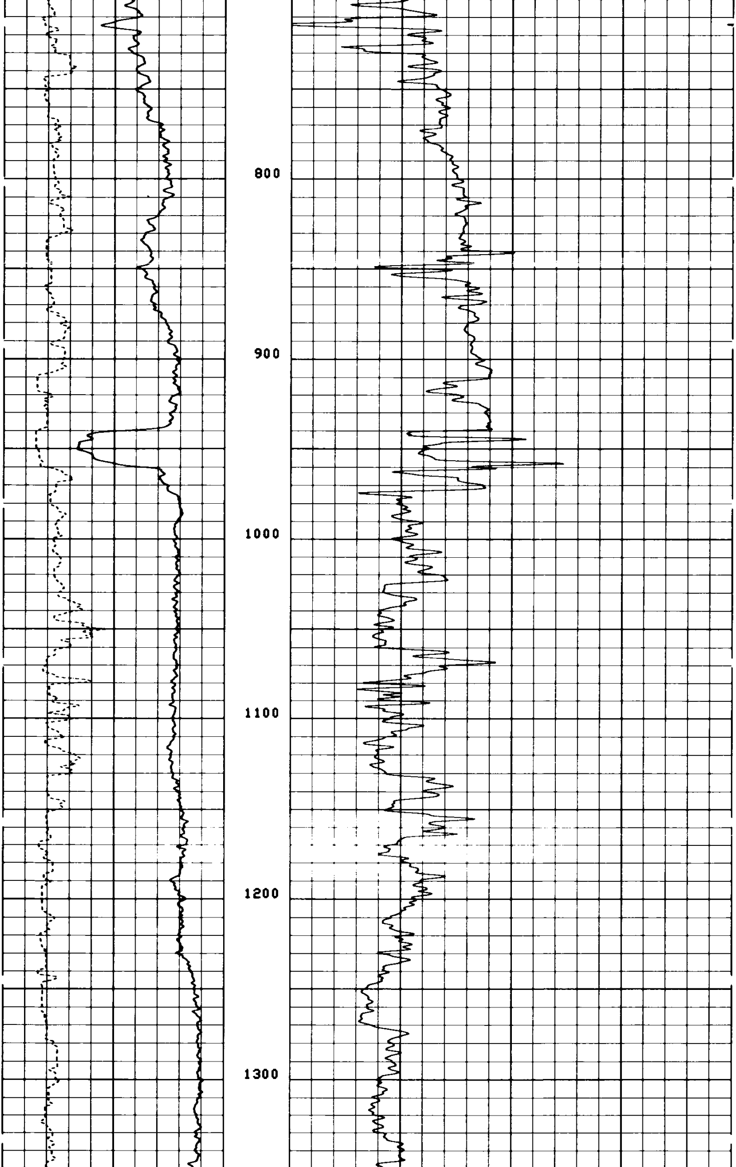
CALI(IN) 6.0000 – 16.000		
SP (MV) -100.0 – 0.0		DT (US/F) 150.00 – 50.000

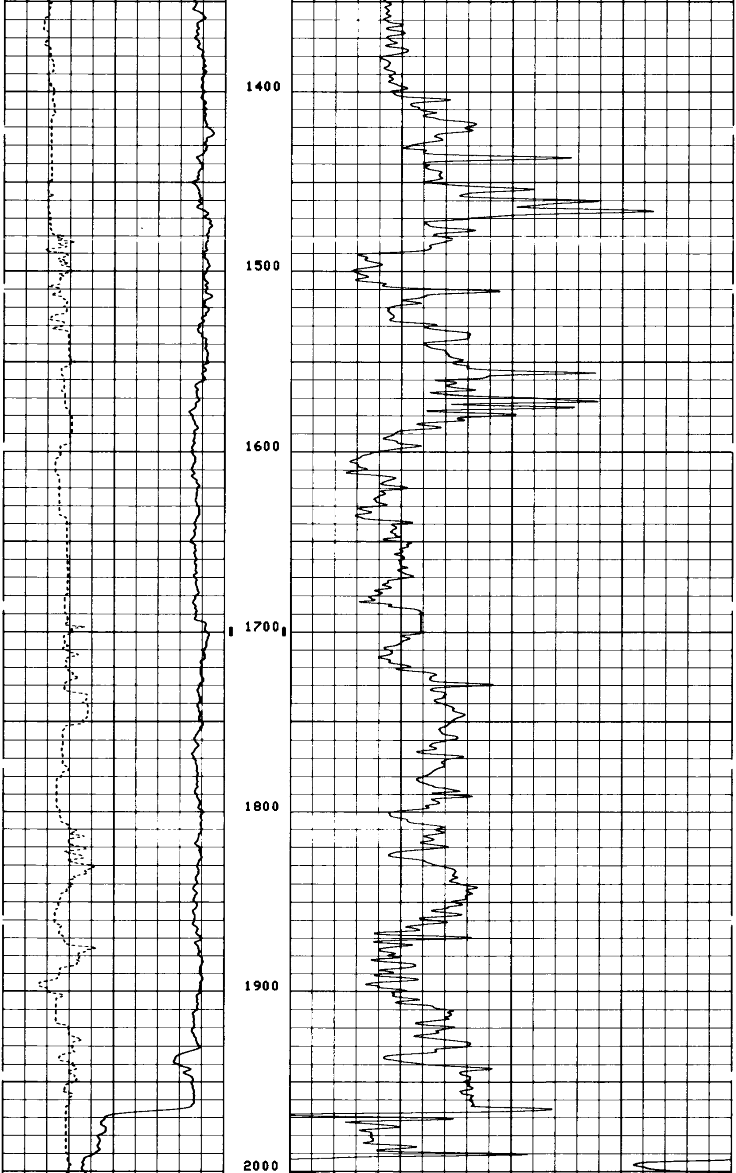
CP 30.22 FILE 2 22-NOV-87 00:22

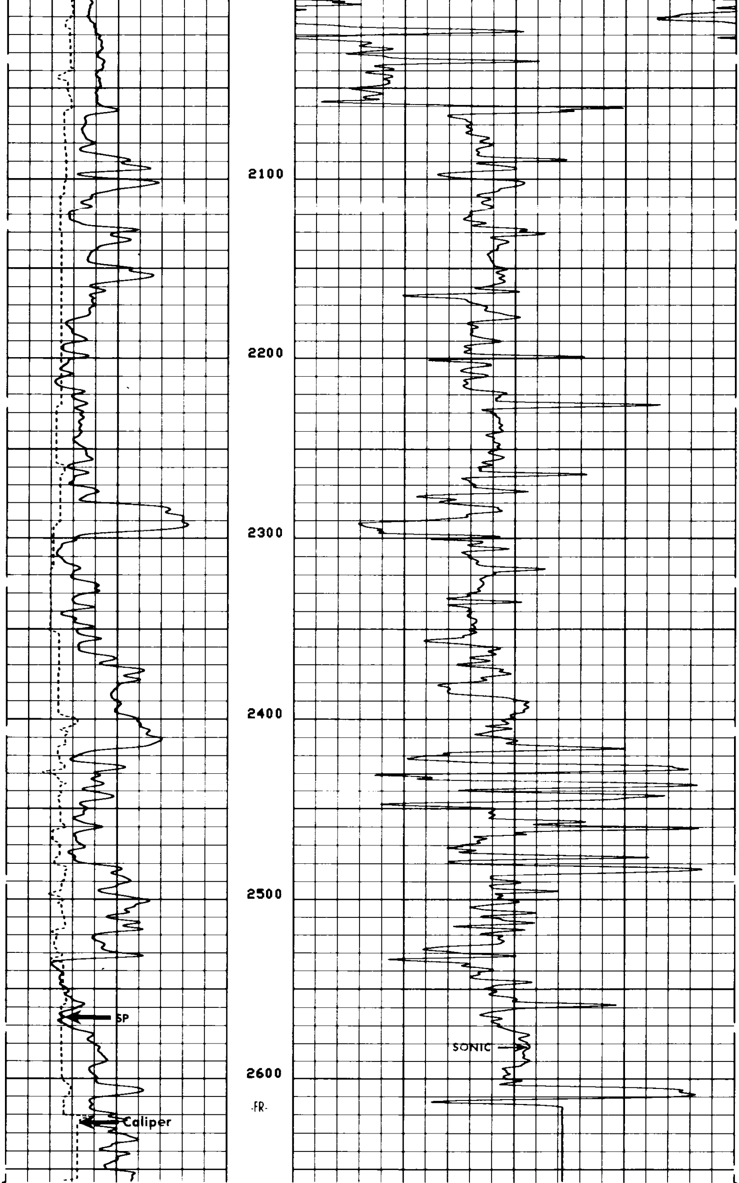
INPUT FILES
3

DATA ACQUIRED
22-NOV-87 23:01









```
                    2"/100'

   CP 30.22           FILE    2       22-NOV-87 00:16

           INPUT FILES                DATA ACQUIRED
           2                          22-NOV-87 22:22
```

```
      CALI(IN  )
6.0000           16.000
      SP  (MV  )                                DT   (US/F)
-100.0              0.0         150.00                                  50.000
```

```
                     SENSOR MEASURE POINT TO TOOL ZERO

      SRAT 41.4  FEET                        AMPL  43.8  FEET
      TT1  42.8  FEET                        CBL   43.8  FEET
      TT3  40.1  FEET                        TT2   43.8  FEET
      TO   43.8  FEET                        TT4   39.1  FEET
      SLTT 43.8  FEET                        TT    43.8  FEET
      CALI 31.8  FEET                        SCBL  43.8  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
```

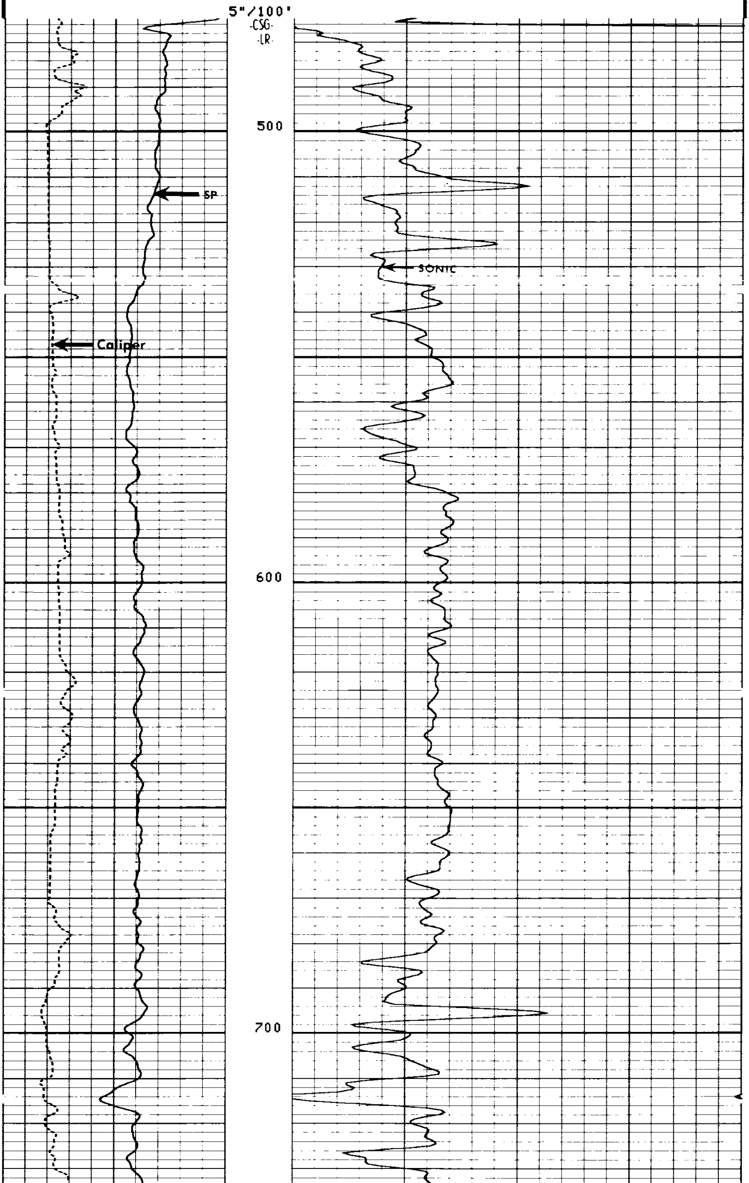
```
                                PARAMETERS

     NAME  VALUE        UNIT               NAME  VALUE        UNIT

     BS    8.50000      IN                 BHS   OPEN
     SPFS  R-H                             FPHI  SPHI
     DTM   56.0000      US/F               CDTS  100.000
     DDEL  200          US                 DTF   189.000      US/F
     DWCO  512                             DSIN  5            US
     SBR   1.00000      OHMM               DSEC  1.70000      MMHO
     DO    0.0          F                  MSEC  7.40000      MMHO
     PP    NORM

                             DATA NOT RECORDED
```

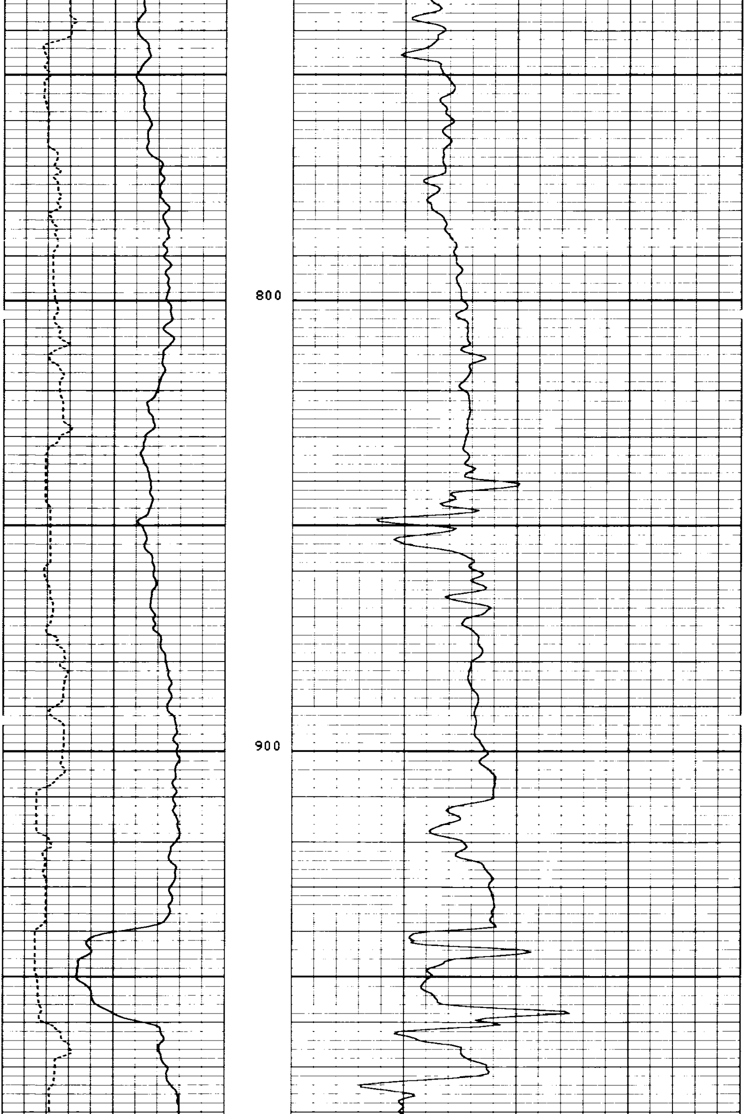
```
                  FILES SPLICED        SPLICE DEPTH

                  2  TO 3               1701.5 F
```

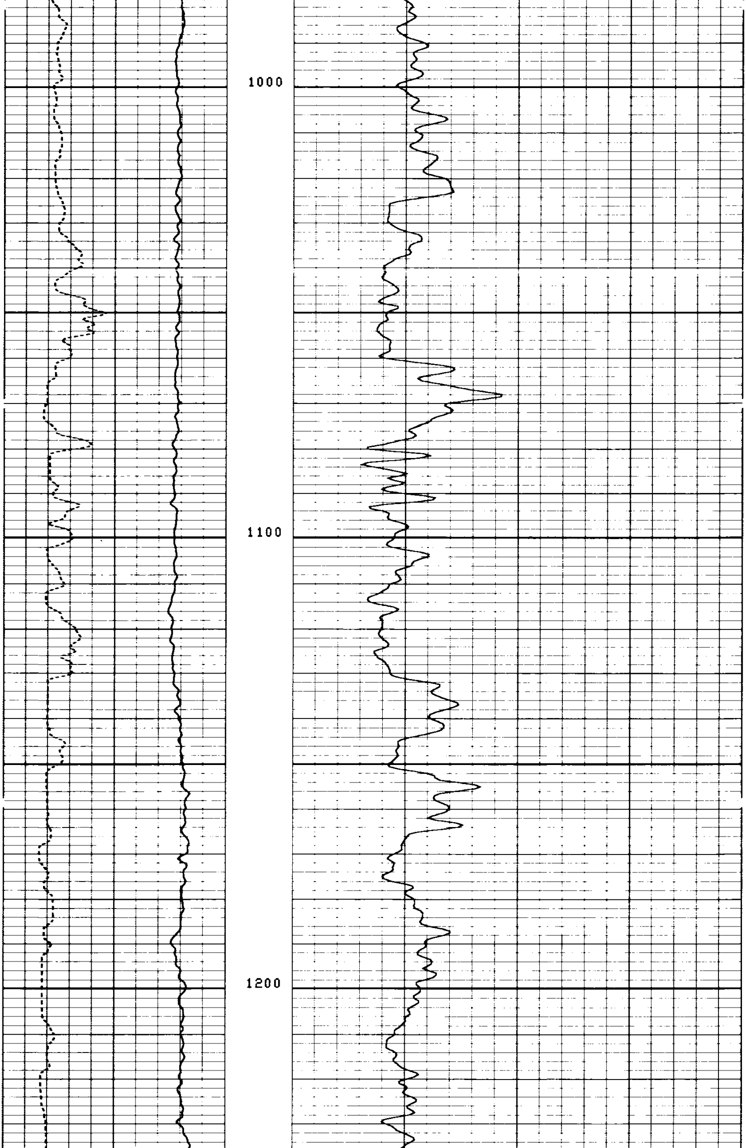
```
  CEMENT VOLUME = 492.287 F3
  HOLE VOLUME =   851.961 F3
  FROM  2656.0 TO   476.0 FEET
```

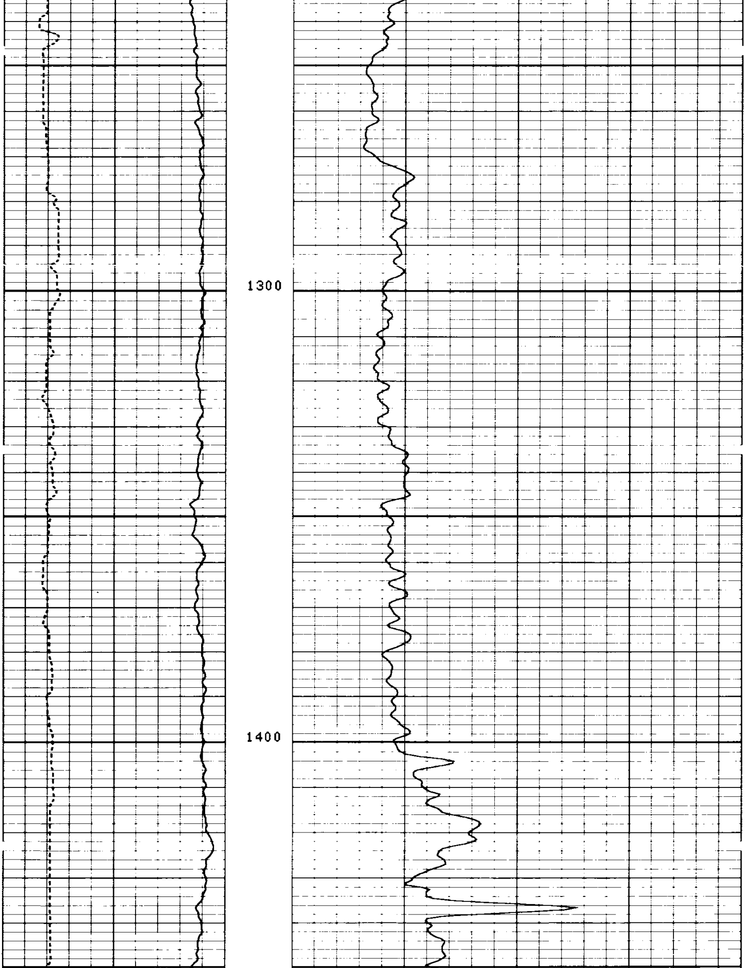
```
      CALI(IN  )
6.0000           16.000
      SP  (MV  )                                DT   (US/F)
-100.0              0.0         150.00                                  50.000
```

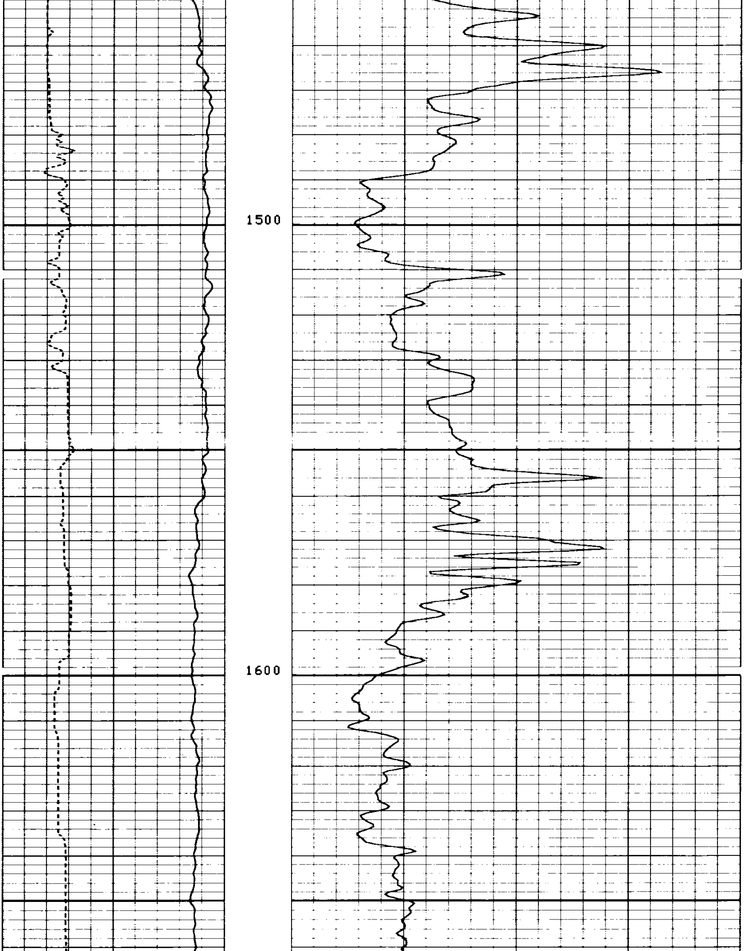
```
   CP 30.22           FILE    2       22-NOV-87 00:22

           INPUT FILES                DATA ACQUIRED
           3                          22-NOV-87 23:01
```

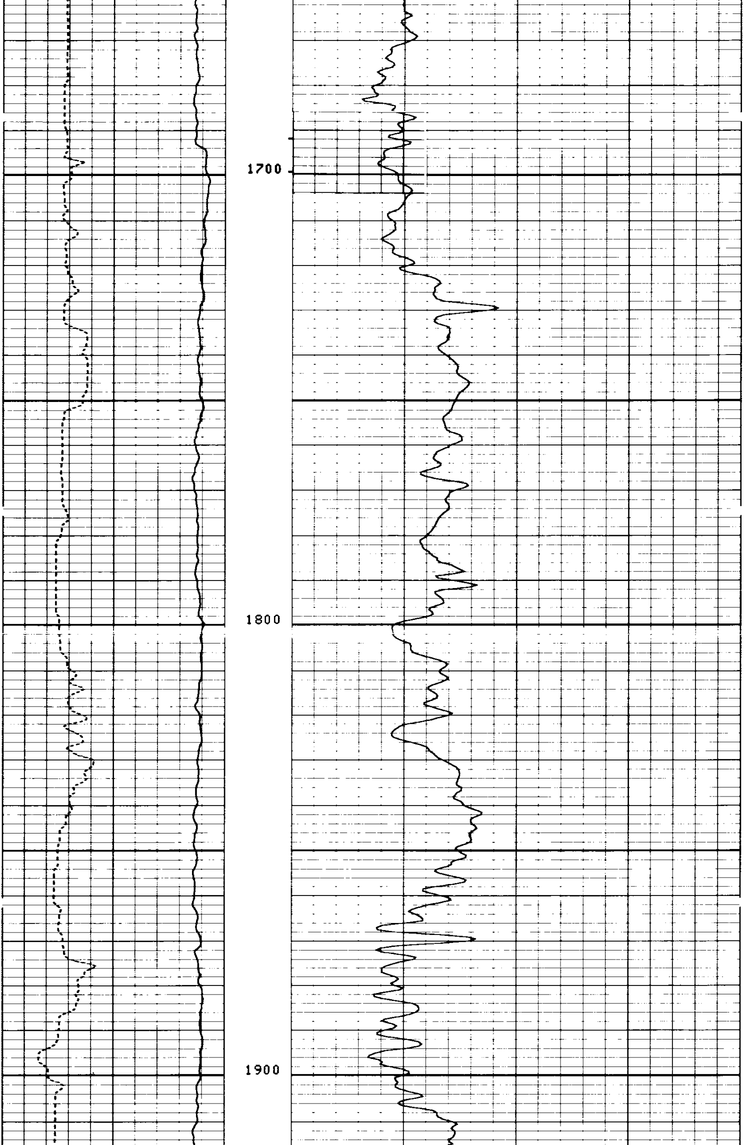


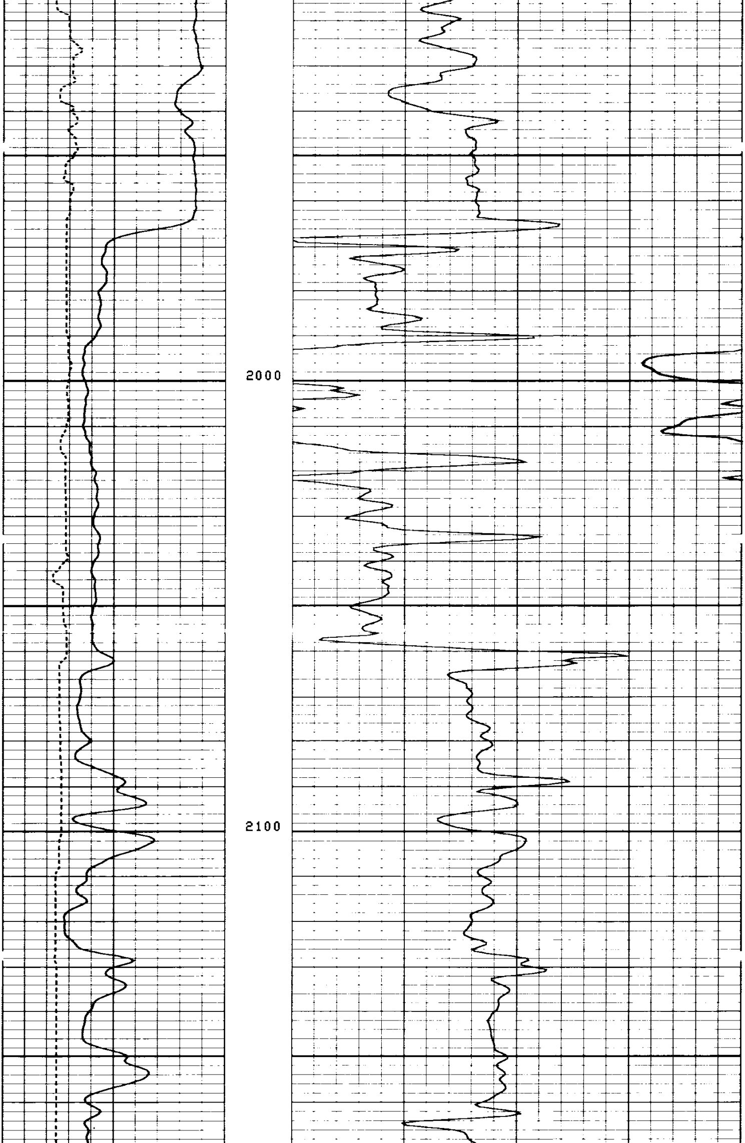


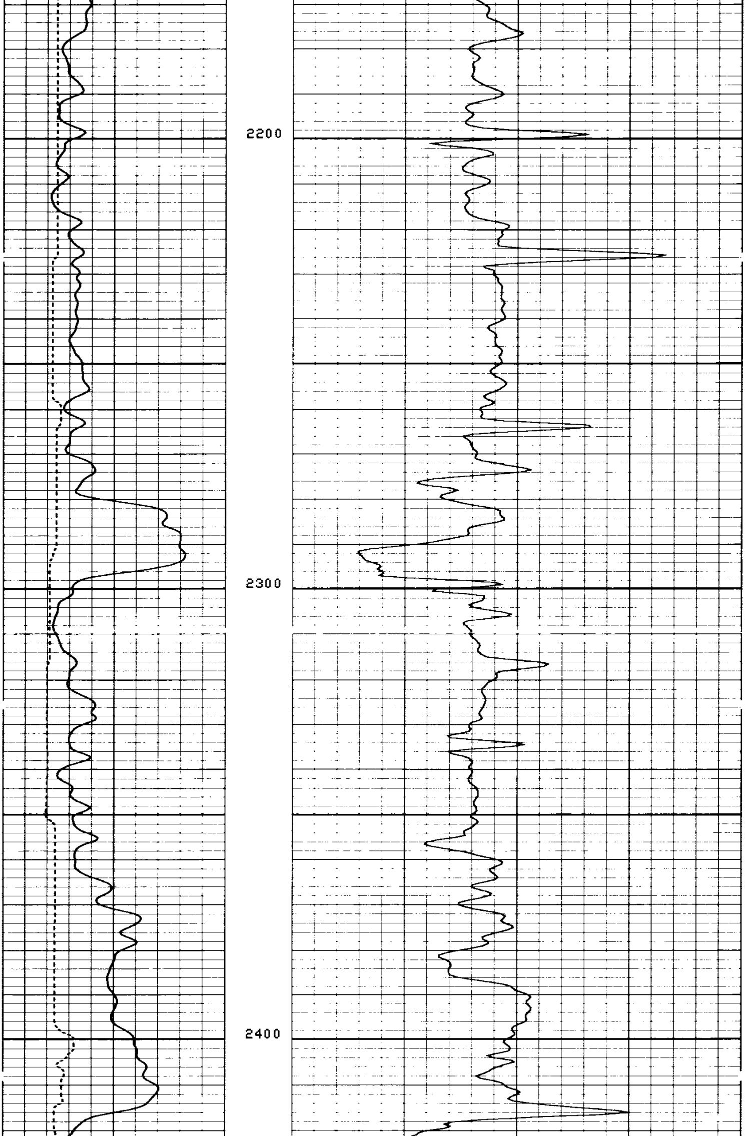


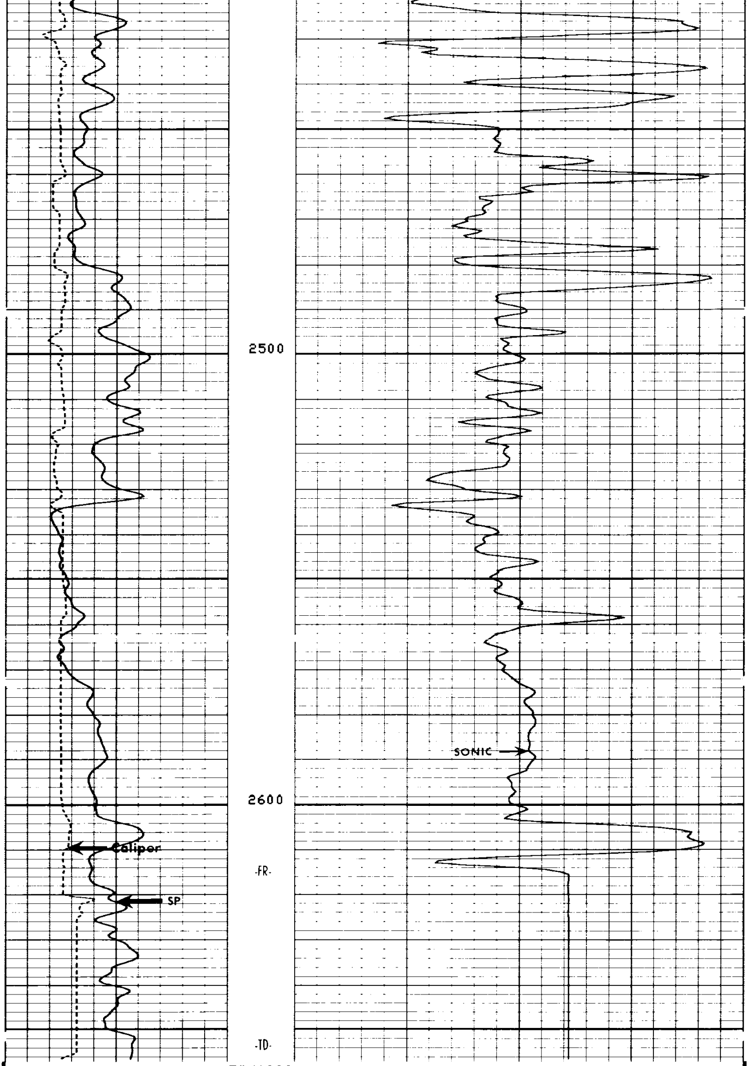












5"/100'

CP 30.22 FILE 2 22-NOV-87 00:16

INPUT FILES
2

DATA ACQUIRED
22-NOV-87 22:22

CALI(IN)		DT (US/F)	
6.0000	16.000		
SP (MV)			
-100.0	0.0	150.00	50.000

SENSOR MEASURE POINT TO TOOL ZERO

SRAT	41.4	FEET	AMPL	43.8	FEET
TT1	42.8	FEET	CBL	43.8	FEET
TT3	40.1	FEET	TT2	43.8	FEET
T0	43.8	FEET	TT4	39.1	FEET
SLTT	43.8	FEET	TT	43.8	FEET
CALI	31.8	FEET	SCBL	43.8	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
BS	8.50000	IN	BHS	OPEN	
SPFS	R-H		FPHI	SPHI	
DTM	56.0000	US/F	CDTS	100.000	
DDEL	200	US	DTF	189.000	US/F
DWCO	512		DSIN	5	US
SBR	1.00000	OHMM	DSEC	1.70000	MMHO
DO	0.0	F	MSEC	7.40000	MMHO
PP	NORM				

DATA NOT RECORDED

EVENT MARK SUMMARY:

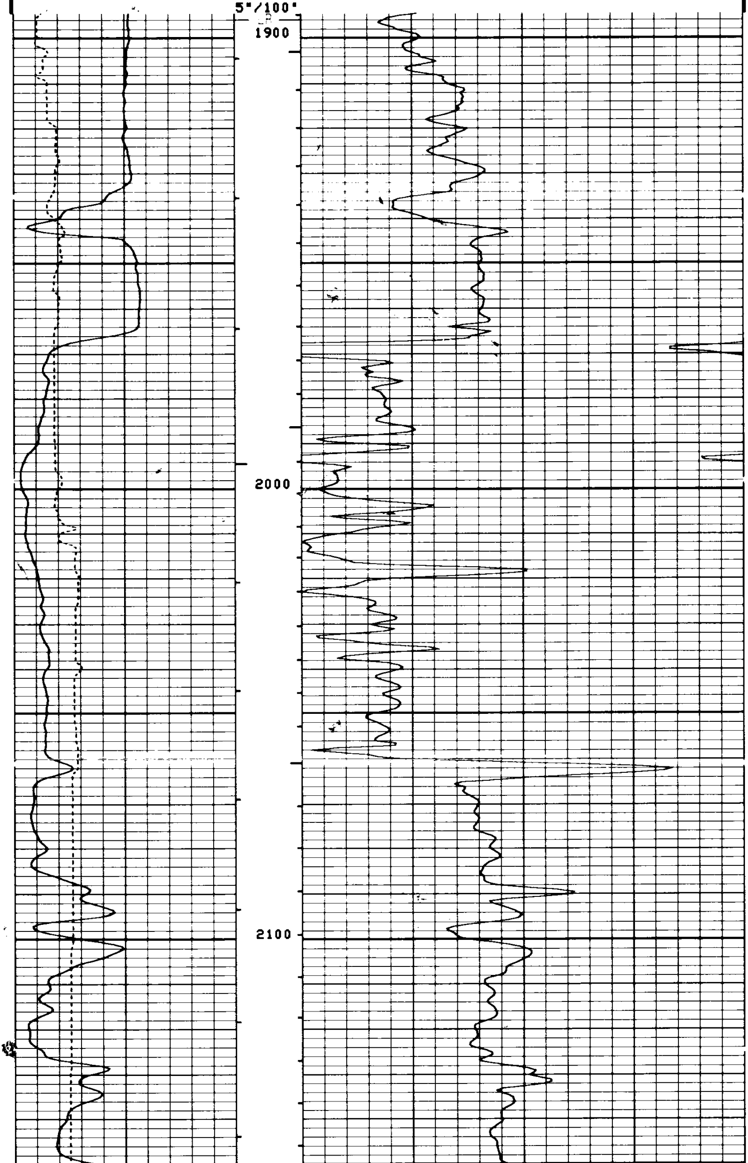
OUTPUT	INTERVAL BETWEEN PIPS	DEPTH TRACK EDGE
IHV	10.0000 F3	LEFT EDGE
ITT	.00100000 S	RIGHT EDGE

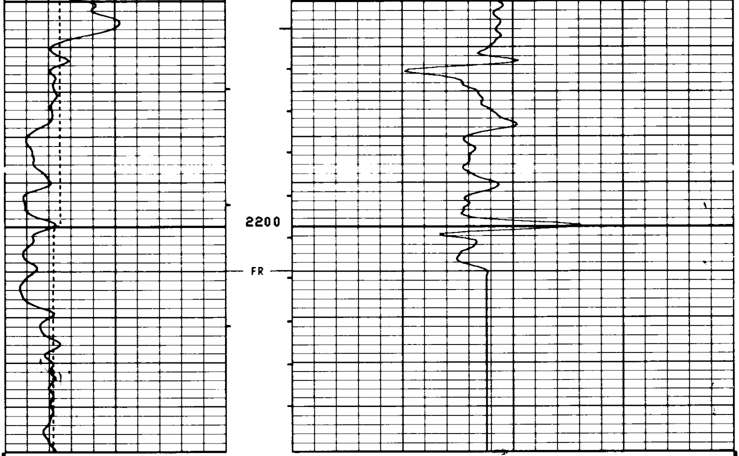
CEMENT VOLUME = 74.2068 F3
HOLE VOLUME = 132.777 F3
FROM 2249.0 TO 1894.0 FEET

CALI(IN)		DT (US/F)	
6.0000	16.000		
SP (MV)			
-100.0	0.0	150.00	50.000

REPEAT SECTION

CP 30.22 FILE 16 22-NOV-87 22:14





5"/100'

CP 30.22 FILE 16 22-NOV-87 22:08

CALI(IN)			DT (US/F)	
6.0000	16.000			
SP (MV)				
-100.0	0.0		150.00	50.000

SENSOR MEASURE POINT TO TOOL ZERO

SRAT	41.4	FEET	AMPL	43.8	FEET
TT1	42.8	FEET	CBL	43.8	FEET
TT3	40.1	FEET	TT2	43.8	FEET
TO	43.8	FEET	TT4	39.1	FEET
SLTT	43.8	FEET	TT	43.8	FEET
CALI	31.8	FEET	SCBL	43.8	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

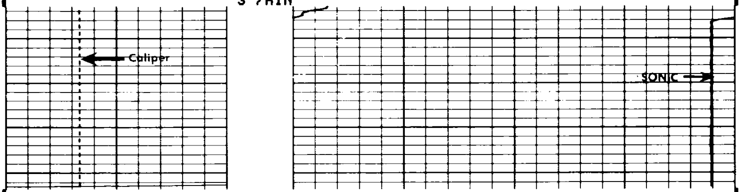
NAME	VALUE	UNIT	NAME	VALUE	UNIT
BS	8.50000	IN	BHS	OPEN	
SPFS	R-H		FPHI	SPHI	
DTM	56.0000	US/F	CDTS	100.000	
DDEL	200	US	DTF	189.000	US/F
DWCO	512		DSIN	5	US
SBR	1.00000	OHMM	DSEC	1.70000	MMHO
MSEC	7.40000	MMHO			

CALI(IN)			DT (US/F)	
6.0000	16.000			
SP (MV)				
-100.0	0.0		150.00	50.000

CSG

CP 30.22 FILE 13 22-NOV-87 21:53

3"/MIN



3"/MIN

CP 30.22 FILE 13 22-NOV-87 21:52

CALI(IN)			DT (US/F)	
6.0000	16.000			
SP (MV)				
-100.0	0.0		150.00	50.000

SENSOR MEASURE POINT TO TOOL ZERO

SRAT	41.4	FEET	AMPL	43.8	FEET
TT1	42.8	FEET	CBL	43.8	FEET
TT3	40.1	FEET	TT2	43.8	FEET
TO	43.8	FEET	TT4	39.1	FEET
SLTT	43.8	FEET	TT	43.8	FEET
CALI	31.8	FEET	SCBL	43.8	FEET
ILM	5.8	FEET	ILD	9.4	FEET
SP	2.5	FEET	SFL	6.4	FEET
TENS	-6.5	FEET	SPAR	2.5	FEET
NOIS	-6.5	FEET			

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
BS	8.50000	IN	BHS	OPEN	
SPFS	R-H		FPHI	SPHI	
DTM	56.0000	US/F	CDTS	100.000	
DDEL	200	US	DTF	189.000	US/F
DWCO	512		DSIN	5	US
SBR	1.00000	OHMM	DSEC	1.70000	MMHO
SPEE	3600	F/HR	MSEC	7.40000	MMHO

MCDB CALIPER CALIBRATION SUMMARY

	MEASURED		CALIBRATED		
	SMALL	LARGE	SMALL	LARGE	UNITS
CALI	8.12	10.7	8.00	12.0	IN

SMALL: 22-NOV-87 20:55 LARGE: 22-NOV-87 20:56 COMP: 22-NOV-87 20:56

CP 30.22 FILE 15 22-NOV-87 22:00

COMPANY	ARCO OIL AND GAS COMPANY	**SCHL.**	**FR** **2187.0 F**
		SCHL.	**TD**
WELL	FOSTER 42-30-65	**DRLR.**	**TD** **2868.0 F**
FIELD	MIST	**Elev:**	**KB** **566.5 F**
COUNTY	COLUMBIA **STATE** OREGON		**DF** **565.5 F**
			GL **545.5 F**

Schlumberger

BOREHOLE COMPENSATED SONIC LOG