Schlumberger

BOREHOLE COMPENSATED SONIC LOG

COUNTY COLUMBIA
FIELD MIST NEHALEM BASIN
LOCATION 3-6N-5W
WELL COLUMBIA COUNTY
NO. 33-3
COMPANY REICHHOLD ENERGY

COMPANY REICHHOLD ENERGY CORPORATION

WELL COLUMBIA COUNTY NO. 33-3

FIELD MIST NEHALEM BASIN

COUNTY COLUMBIA **STATE** OREGON

LOCATION: 1669'NORTH & 380'EAST OF THE SOUTH ¼ CORNER OF

API SERIAL NO.	SEC	TWP	RANGE
	3	6N	5W

Other Services:
DI-SFL
HDT

Permanent Datum: GL ; Elev.: 1028.8
Log Measured From KB 10.5 Ft. Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 1039.3
D.F. --
G.L. 1028.8

Date	6-1-80			
Run No.	ONE			
Depth—Driller	2777			
Depth—Logger (Schl.)	2777			
Btm. Log Interval	2761			
Top Log Interval	406			
Casing—Driller	7" @ 407	@	@	@
Casing—Logger	406			
Bit Size	6¼"			
Type Fluid in Hole	LIGNOSULFONATE			
Dens. | Visc.	78 | 43			
pH | Fluid Loss	10.5 | 7 ml	ml	ml	ml
Source of Sample	FLOWLINE			
Rm @ Meas. Temp.	1.4 @ 63 °F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	1.8 @ 52 °F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	2.01 @ 52 °F	@ °F	@ °F	@ °F
Source: Rmf | Rmc	M | M			
Rm @ BHT	.99 @ 92 °F	@ °F	@ °F	@ °F
TIME Circulation Stopped	1600			
TIME Logger on Bottom	2030			
Max. Rec. Temp.	92 °F	°F	°F	°F
Equip. | Location	8126 | SAC			
Recorded By	KAISER/CLAGUE			
Witnessed By Mr.	WES BRUER			

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

Run No.	ONE			
Service Order No.	123967			
Fluid Level	FULL			

EQUIPMENT DATA

Sonic Panel No.	383			
Sonic Cart No.	592			
Sonic Sonde No.	2251			
Mem. Panel No.	--			
G.R. Cart. No.	--			
G.R. Panel No.	--			
Caliper No.	663			
TTR No.	--			
Centralizers: No.	--			
Type	--			
Standoffs: No.	--			
Type	--			
Time Const.-Sec.	--			
Speed - F.P.M.	--			

CALIBRATION DATA

GR	BKG. CPS	--			
	Source CPS	--			
	Tc Sec	--			

SCALE CHANGES

Type Log	Depth	Scale Up Hole	Scale Down Hole

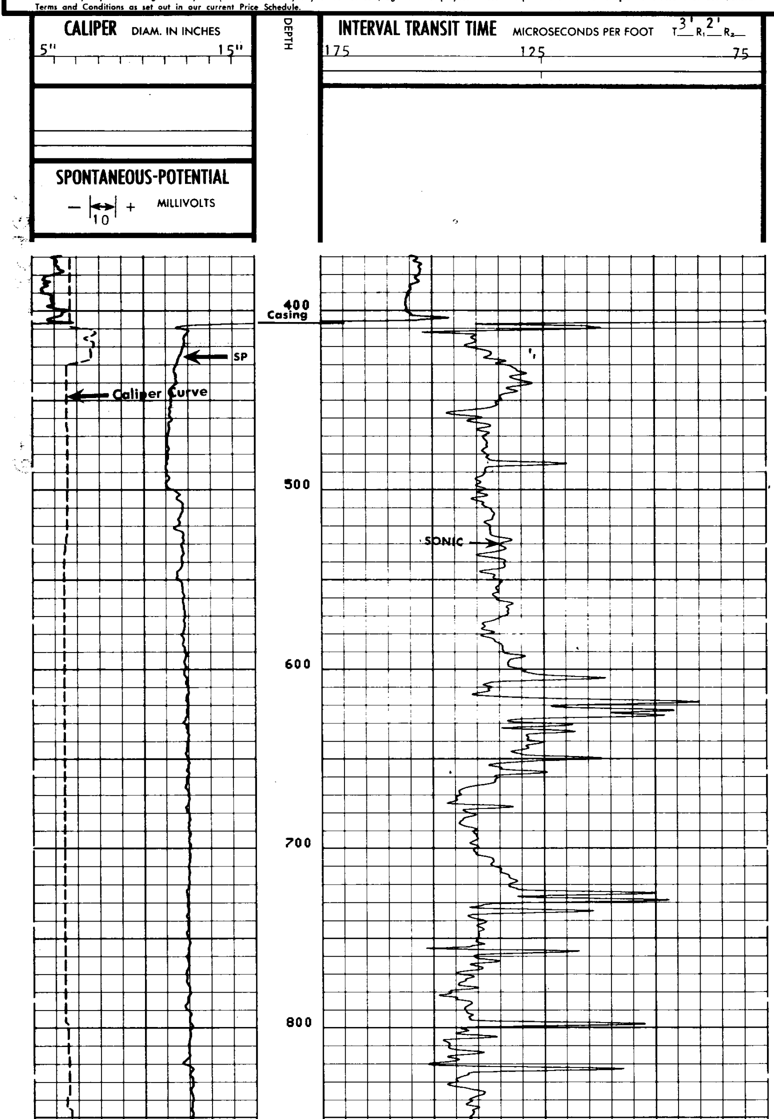
LOGGING DATA

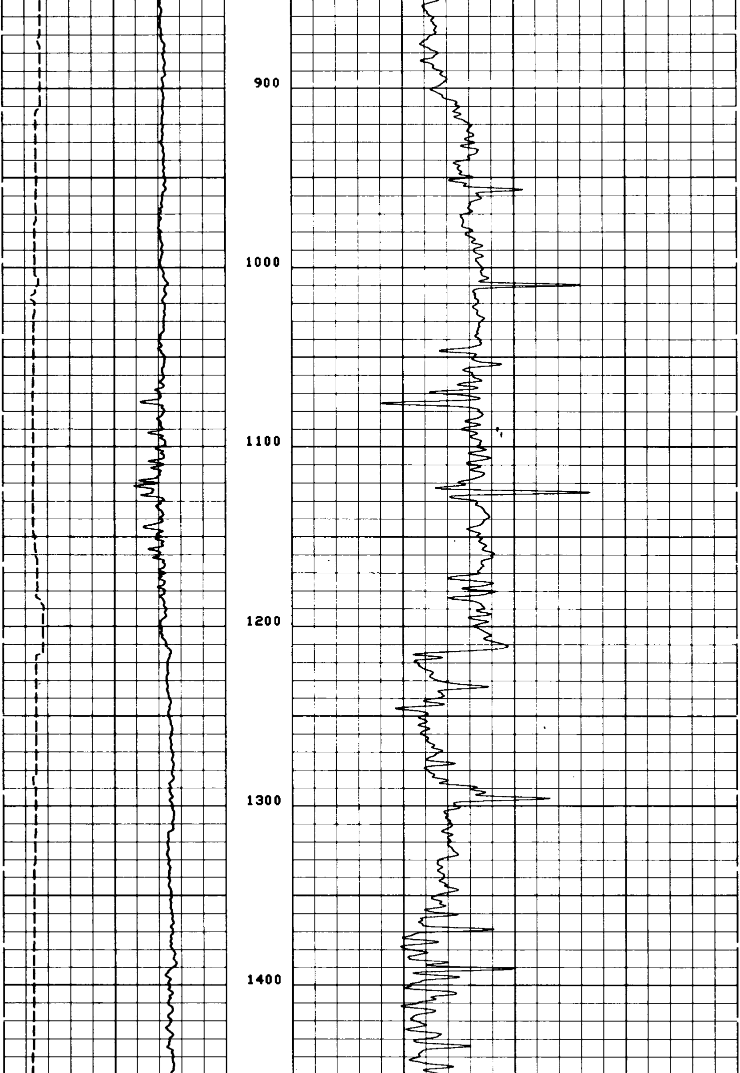
Porosity Selectors				Depth	
Δt_m	Δt_f	Cp	Ø Scale	From	To
55.6	189				

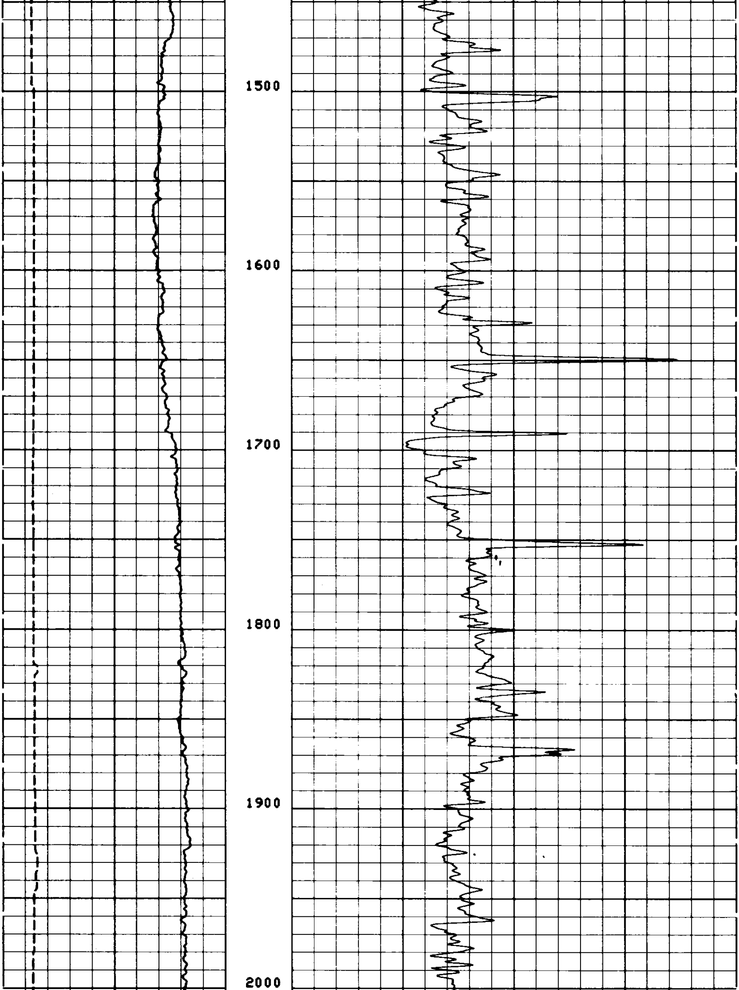
REMARKS

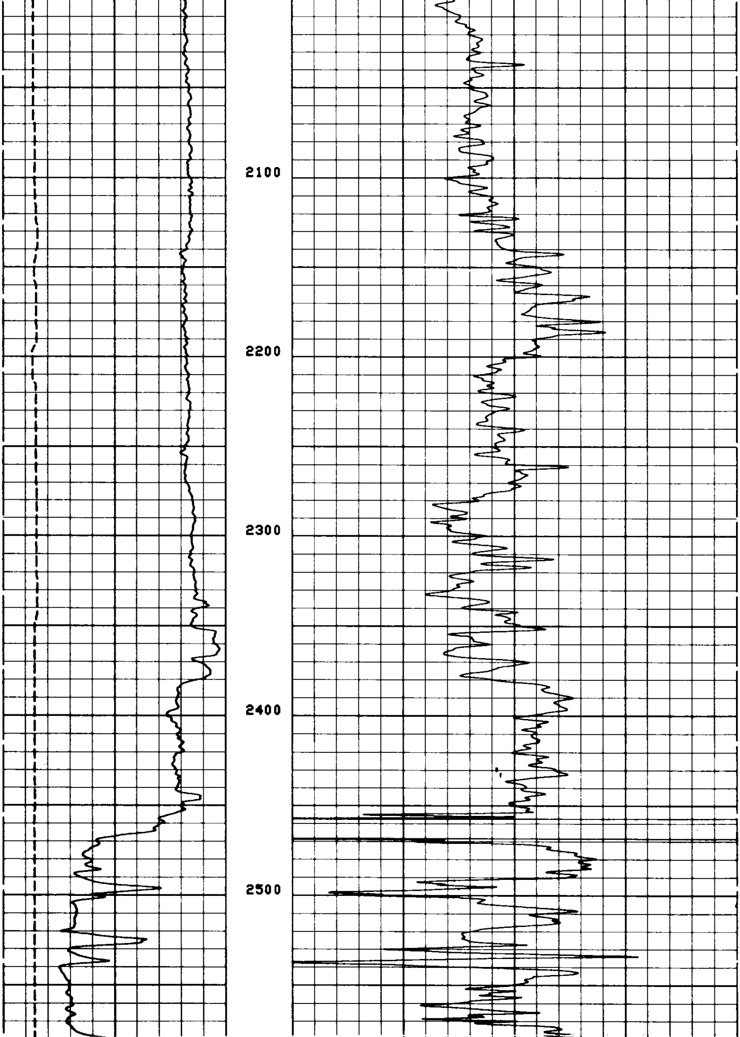
Velocity (ft sec) = 1,000,000 / Interval Transit Time (microseconds per foot)

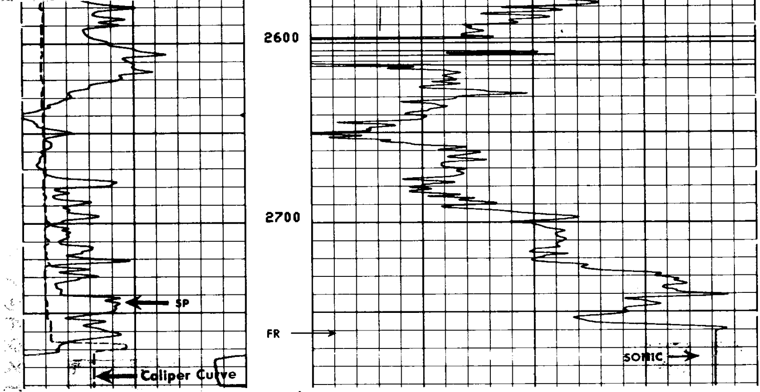
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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 Clause 4 of our General Terms and Conditions as set out in our current Price Schedule.











4
4

SPONTANEOUS-POTENTIAL
10
— |↔| + MILLIVOLTS

CALIPER DIAM. IN INCHES
5" 15"

DEPTH

INTERVAL TRANSIT TIME MICROSECONDS PER FOOT T 3' R₁ 2' R₂
175 125 75

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FIELD MIST NEHALEM BASIN
COUNTY COLUMBIA STATE OREGON

SCHL. FR 2761
SCHL. TD 2777
DRLR. TD 2777
Elev: KB 1039.3
DF --
GL 1028.8

DETAIL LOG

5" = 100'

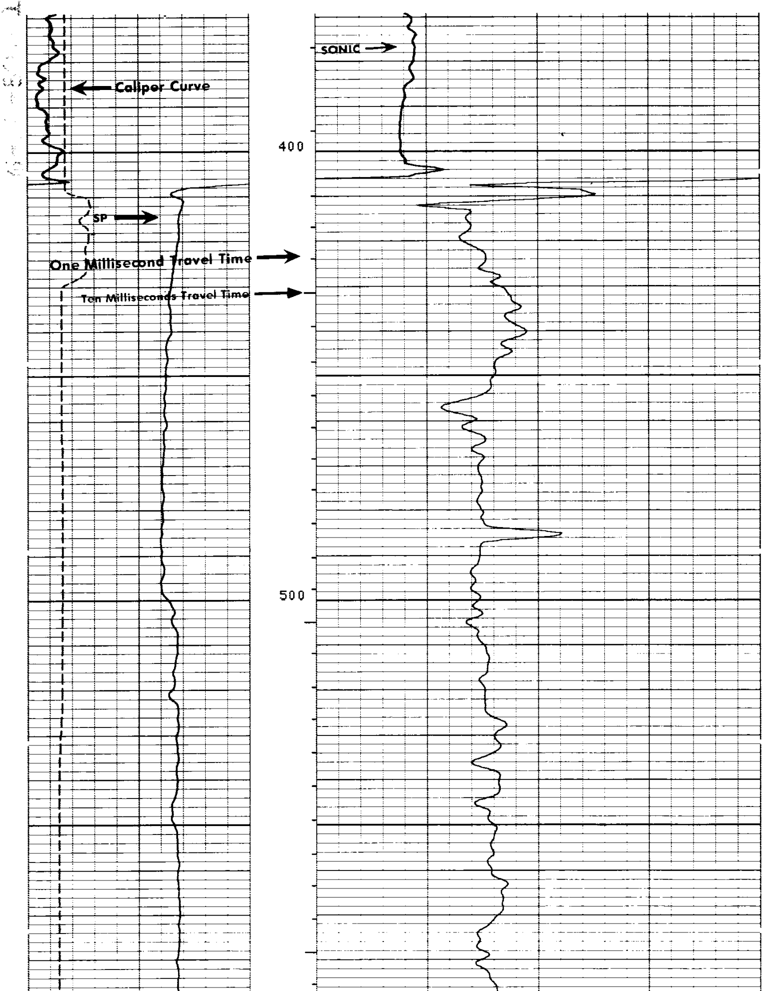
CALIPER DIAM. IN INCHES
5" 15"

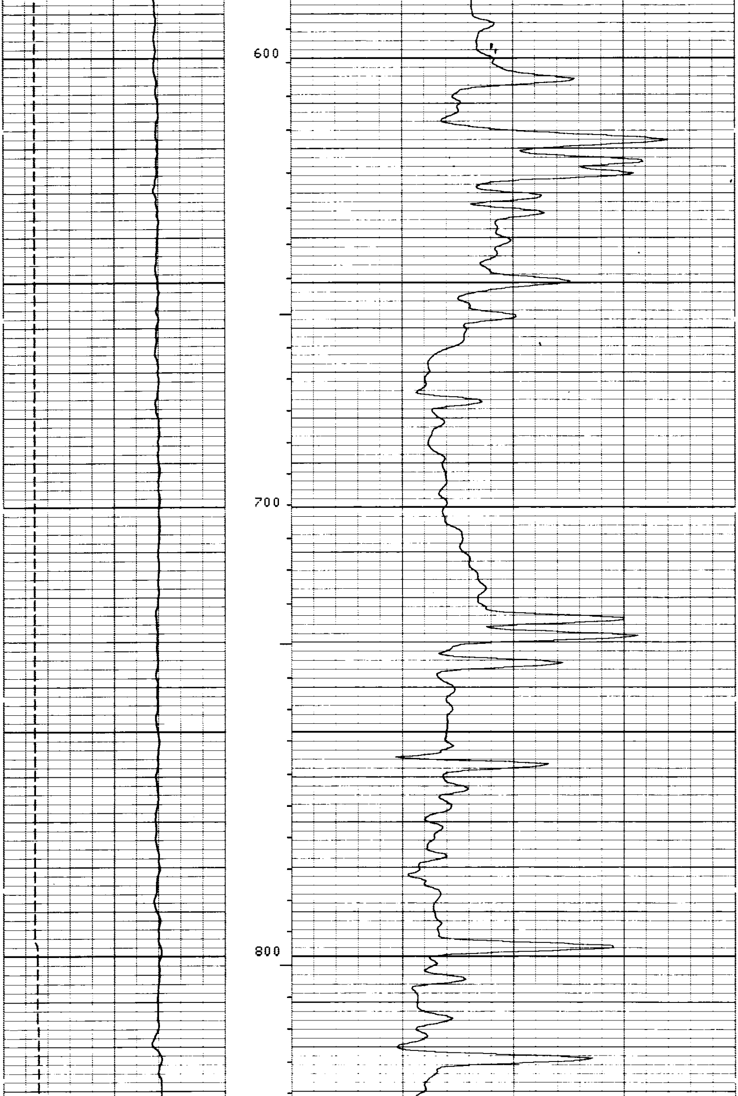
DEPTH

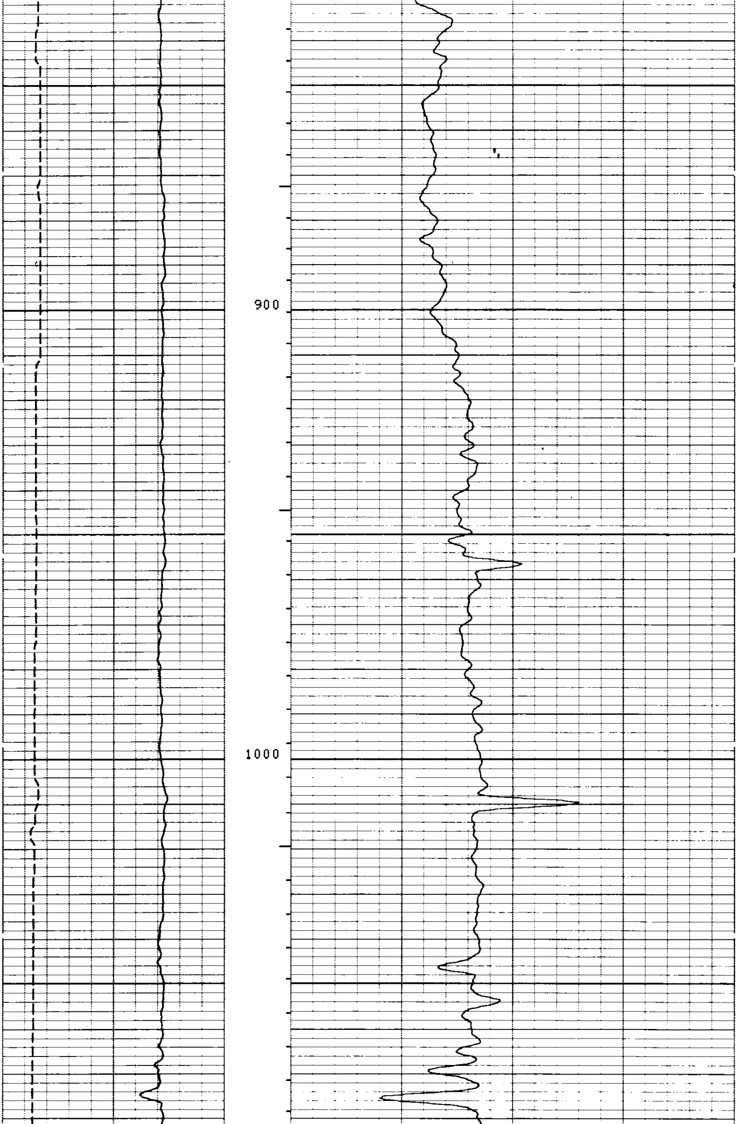
INTERVAL TRANSIT TIME MICROSECONDS PER FOOT T 3' R₁ 2' R₂
175 125 75

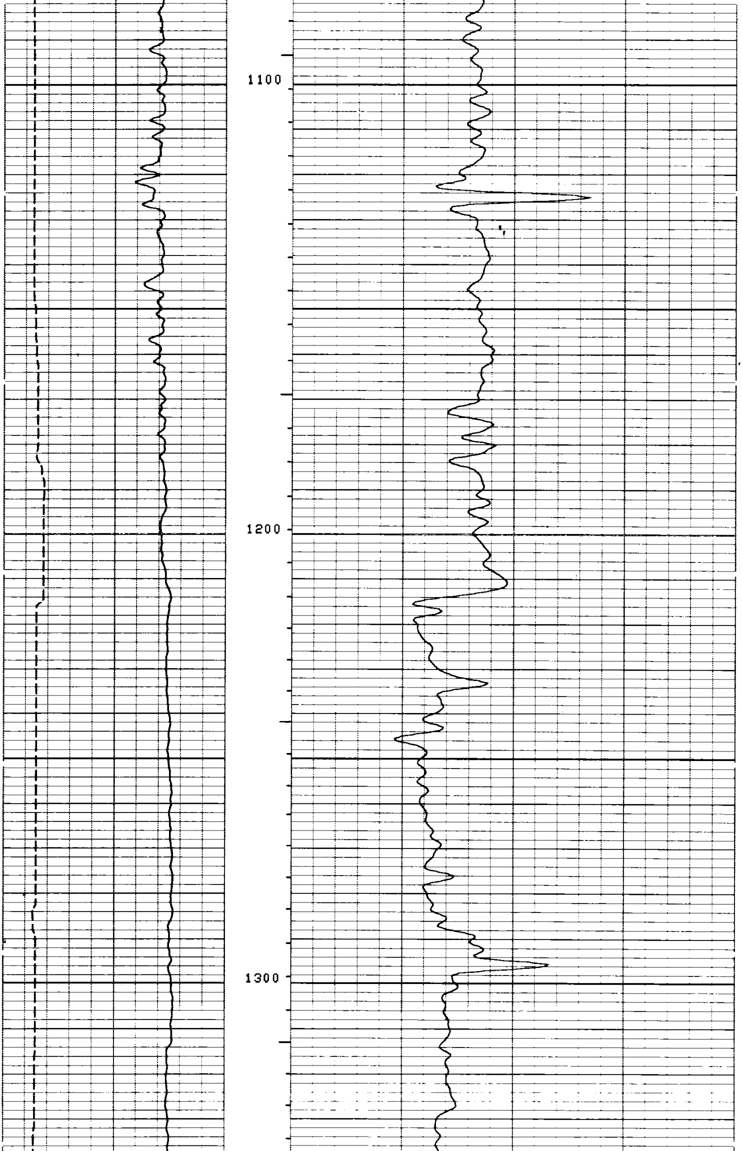
INTEGRATED TRAVEL TIME

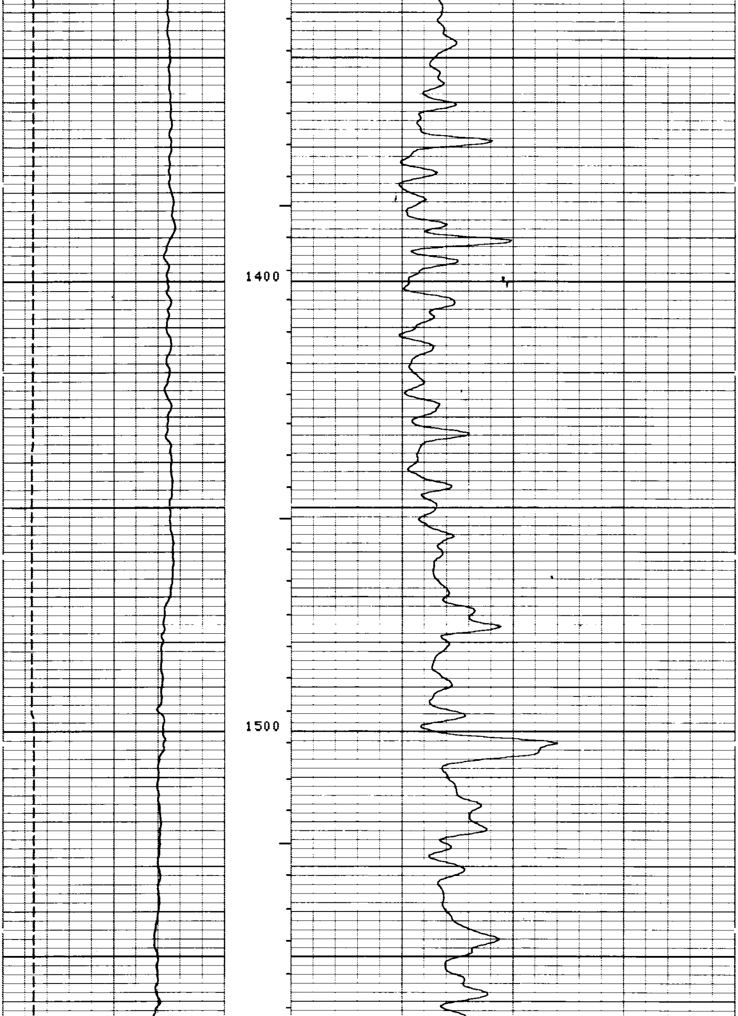
SPONTANEOUS-POTENTIAL
10
— |↔| + MILLIVOLTS

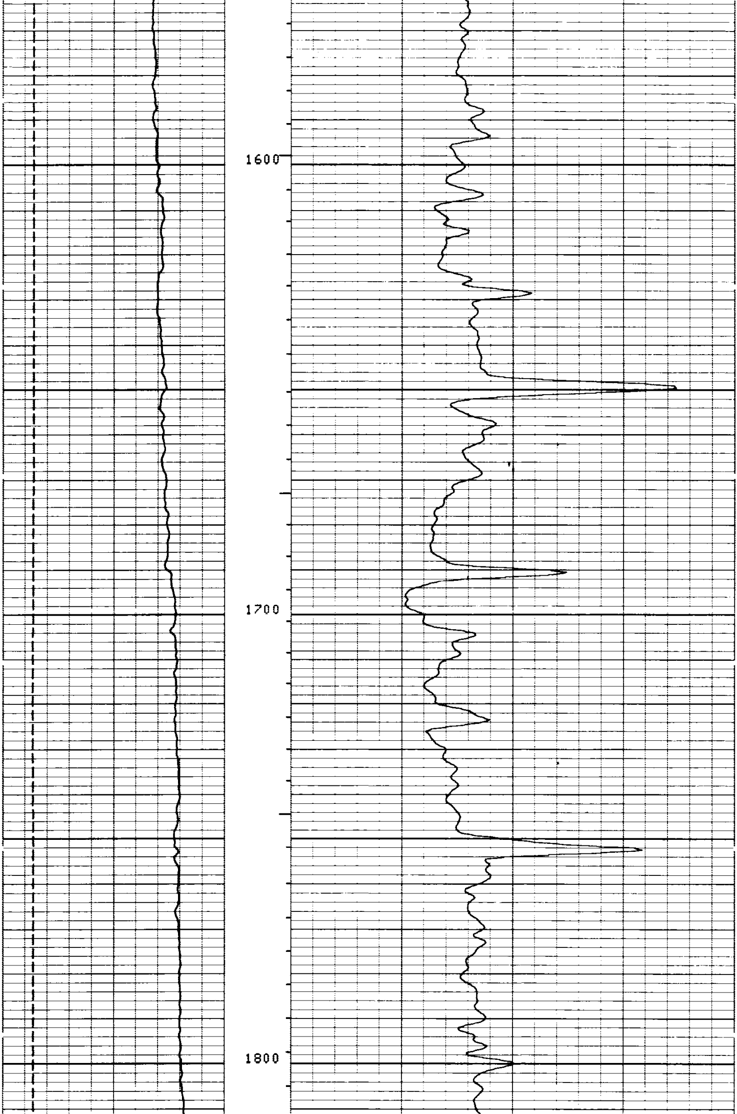


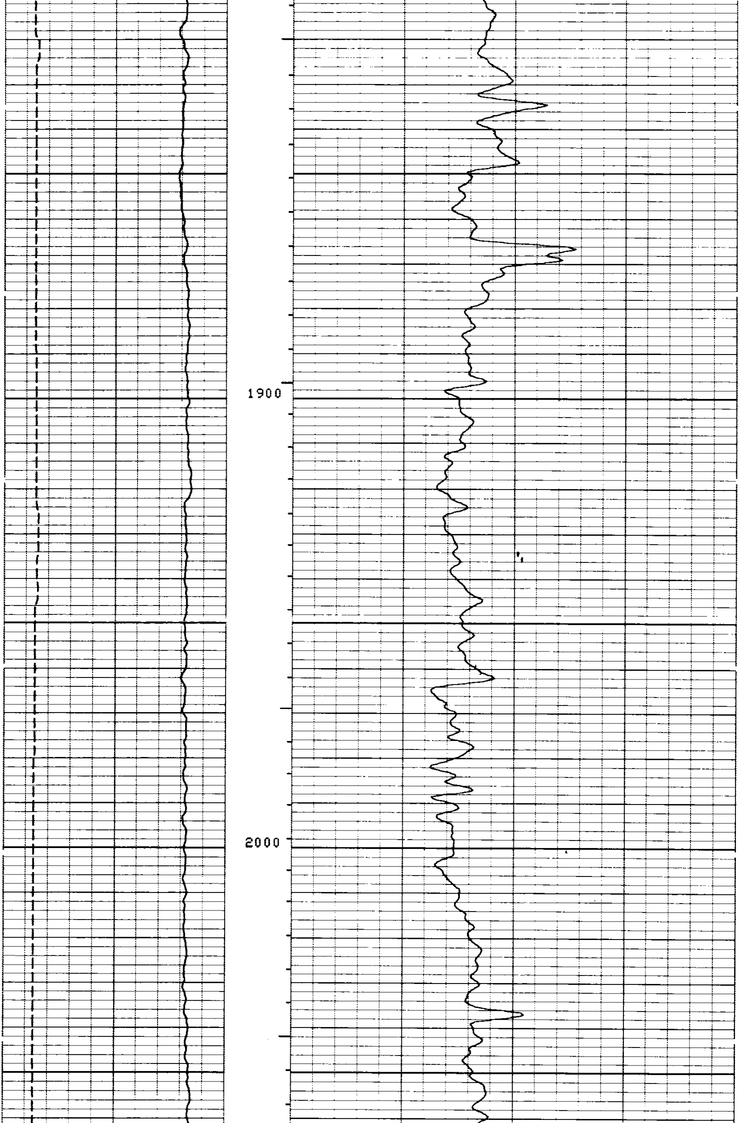


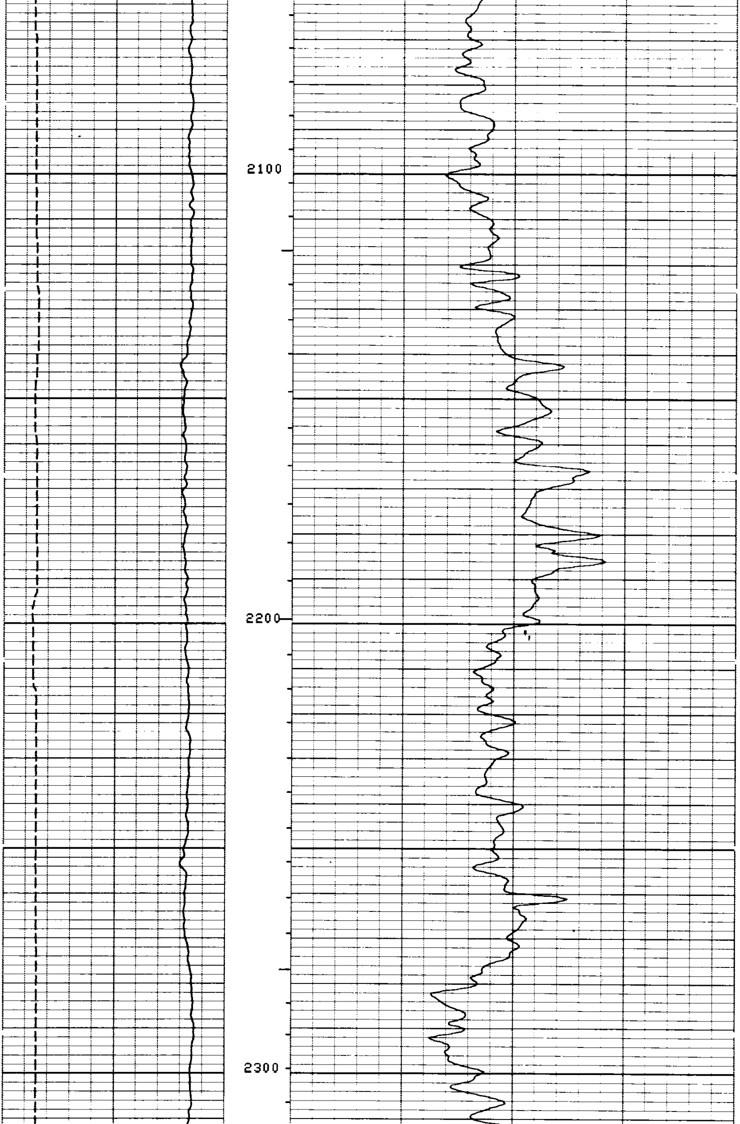


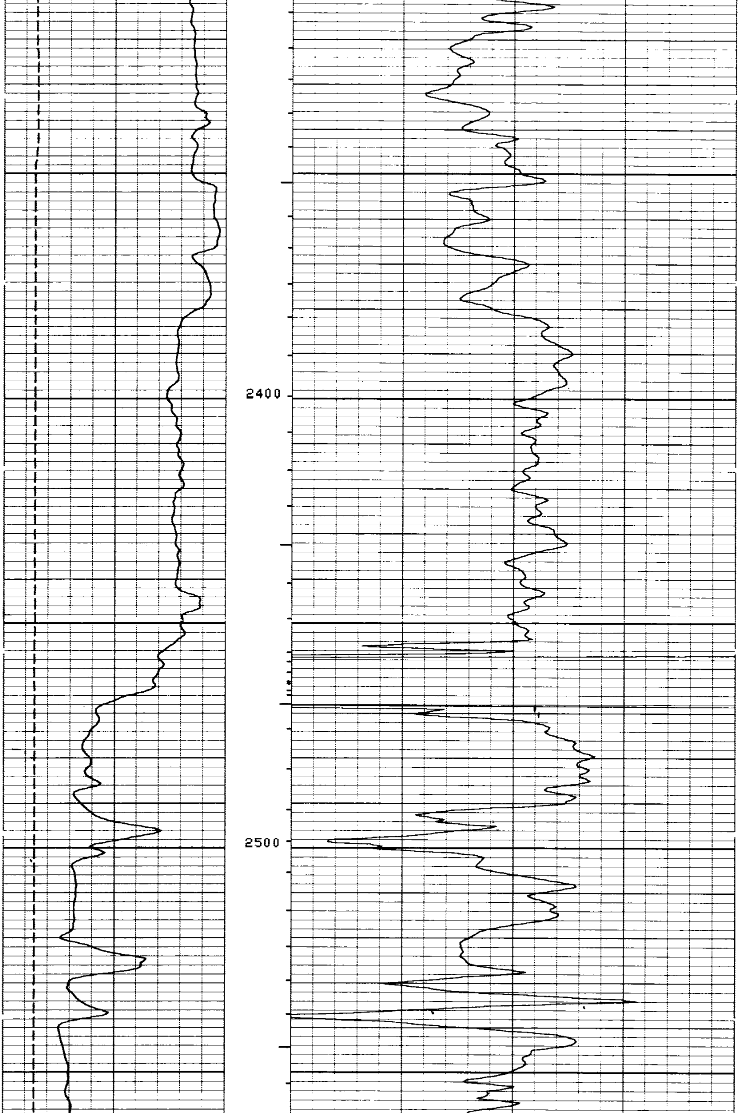


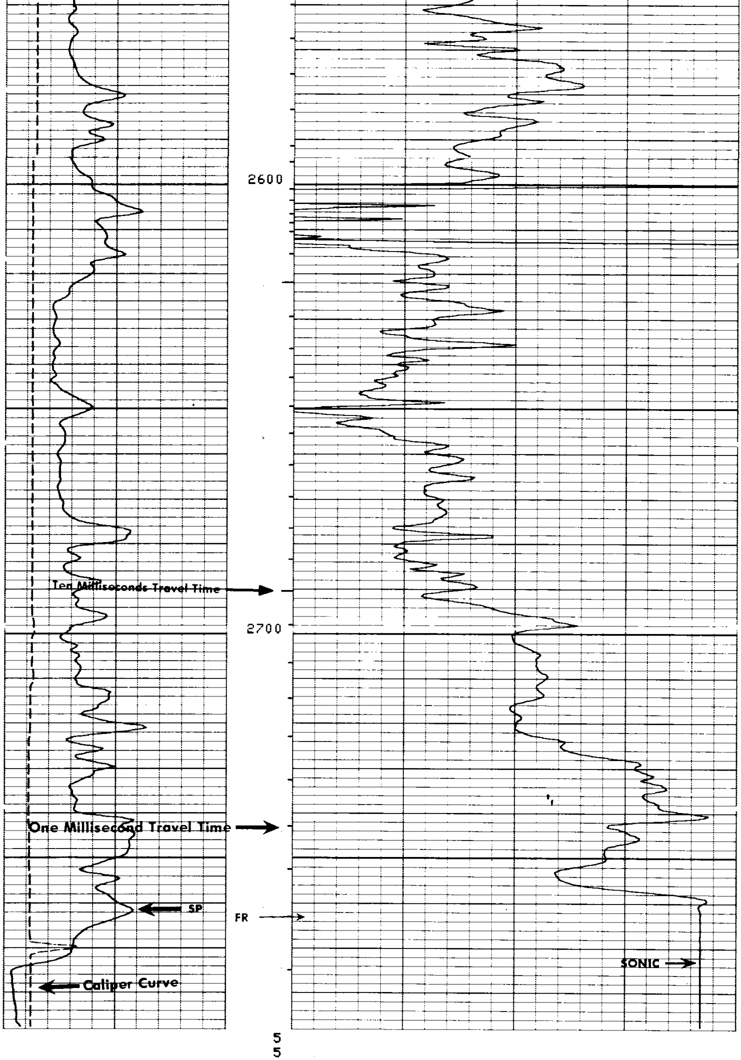




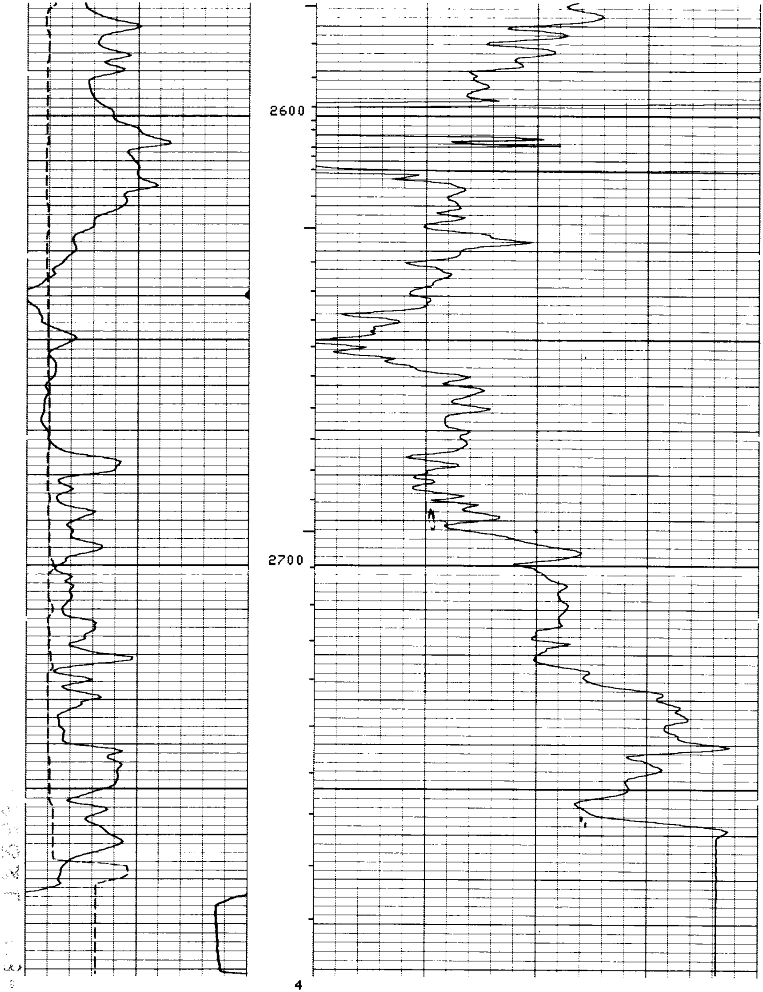








REPEAT SECTION



4

SPONTANEOUS-POTENTIAL
10
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INTEGRATED TRAVEL TIME

CALIPER DIAM. IN INCHES
5" 15"

DEPTH

INTERVAL TRANSIT TIME MICROSECONDS PER FOOT T 3' R₁ 2' R₂
175 125 75

CALIBRATION RECORD

```
3
3

                    BEFORE SURVEY CALIBRATION SUMMARY

     PERFORMED:       80/06/01
     PROGRAM FILE:    IS       (VERSION     16.4     79/11/20)

   VCDD                 CALIPER CALIBRATION SUMMARY

                 MEASURED                       CALIBRATED
               SMALL    LARGE                 SMALL      LARGE        UNITS
     CALI       5.1     12.6                   6.0       12.0          IN
                           2
                           2
                           2
                           2
                           2
                           2
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