Scanned

SCHLUMBERGER

SONIC LOG

SCHLUMBERGER WELL SURVEYING CORPORATION
Houston, Texas

COUNTY LINN 7-12S-1W
FIELD or LOCATION LEBANON
WELL ESMOND NO. 1
COMPANY RESERVE OIL AND GAS COMPANY

COMPANY RESERVE OIL AND GAS COMPANY

WELL ESMOND NO. 1

FIELD LEBANON

LOCATION 7 - 12S - 1W W. B. & M.

COUNTY LINN

STATE OREGON

Other Surveys
SL(1-ES,ML,CDMP)
2 INCH SCALE

Location of Well
1194 FT. NORTH
AND
575 FT. WEST
OF SOUTH 1/4
CORNER

Elevation: K.B.: 487
D.F.:
or G.L.: 475

Log Depths Measured From K.B. 12 **Ft. above** G.L.

RUN No.	ONE	TWO	
Date	8-7-62	9-6-62	
First Reading	7105	8600	
Last Reading	2550	7105	
Feet Measured	REMARKS	495	
Csg. Schlum.	-	-	
Csg. Driller	891	891	
Depth Reached	7109	8604	
Bottom Driller	7106	8601	
Mud Nat.	CLAY	CLAY	
Dens. | Visc.	112 | 60	115 | 50	|
Mud Resist.	0.59 @ 77 °F	.8 @ 85 °F	@ °F
" Res. BHT	0.33 @ 141 °F	.42 @ 158 °F	@ °F
" pH	9 @ 77 °F	9 @ 85 °F	@ °F
" Wtr. Loss	10 CC 30 min	4.5 CC 30 min	CC 30 min
" Rmf (C)	0.2 @ 141 °F	.26 @ 158 °F	@ °F
Bit Size	9 7/8"	9 7/8"	
Spacing:	INTERVALS		
T3' R₁ 1' R₂	7105 To 2550	8600 To 7105	To
T__R₁__R₂	To	To	To
Opr. Rig Time	2 HOURS	2 HOURS	
Truck No.	1510 SAC	1510 SAC	
Recorded By	PARKS	ANDERSEN	
Witness	D'OLIER	D'OLIER	

FOLD HERE

REMARKS

VLC No.:	G 272	G 272
VLS No.:	B 33	B 33
VLP No.:	B 195	B 78
RUN	ONE	TWO

STANDARD CENTRALIZERS USED

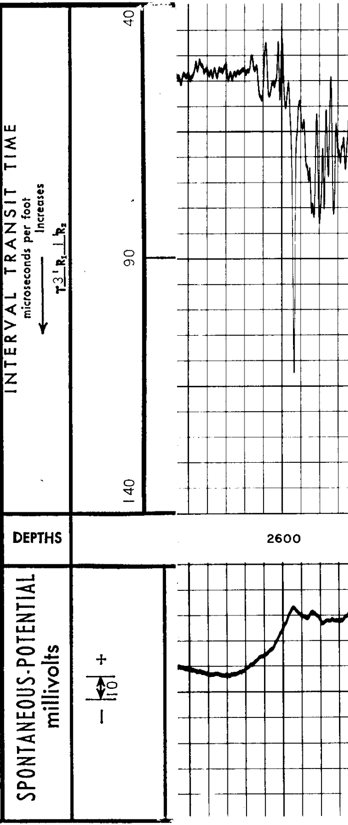
RUN 1-INTERVALS LOGGED
7105 - 6300 = 805 FT.
4950 - 4750 = 200 FT.
4050 - 2550 = 1500 FT.
TOTAL = 2505 FT.

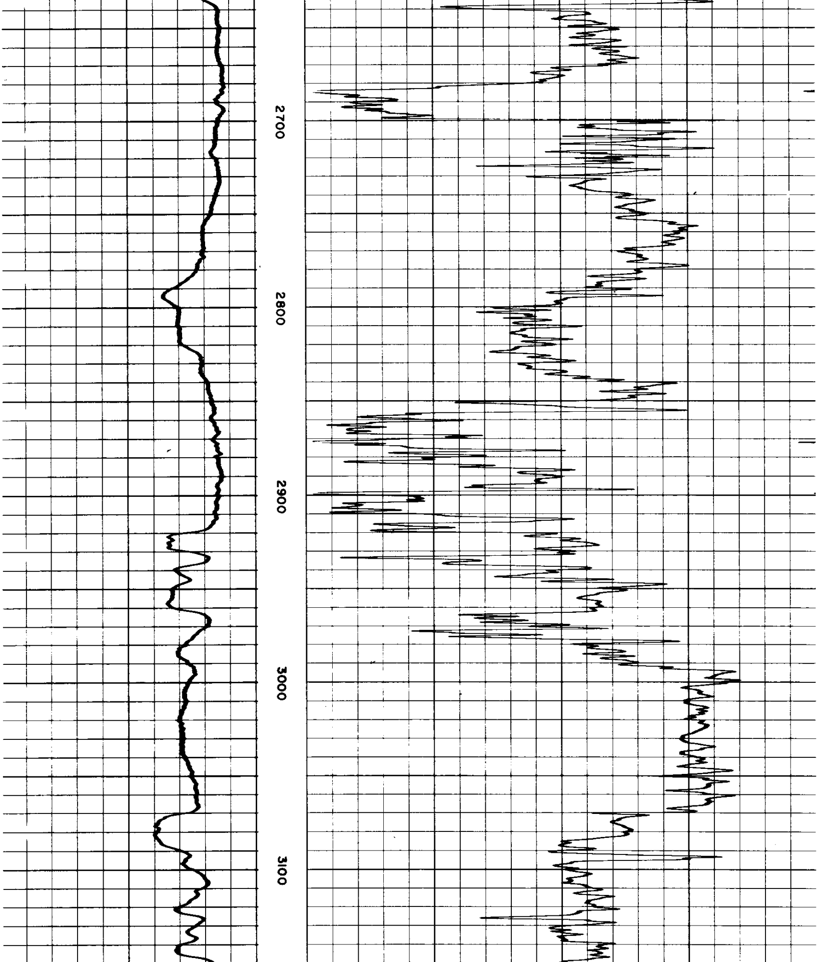
$$\text{Velocity (feet per second)} = \frac{1{,}000{,}000}{\text{Interval Transit Time (microseconds per foot)}}$$

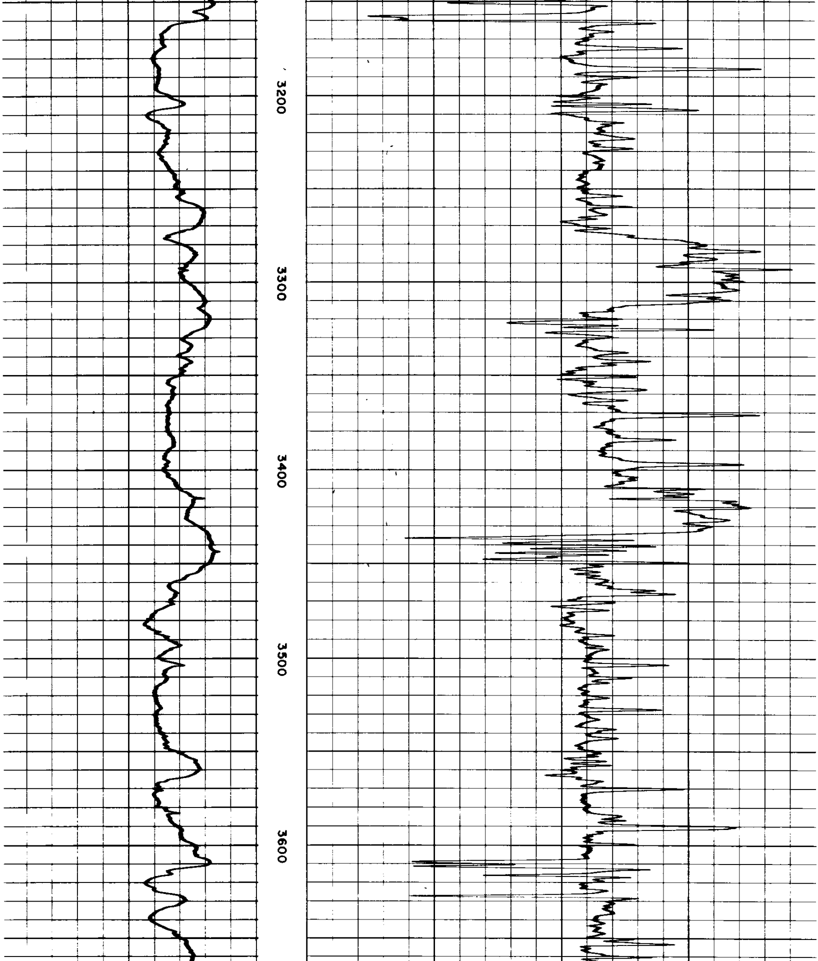
INTERVAL TRANSIT TIME
microseconds per foot
← Increases
T3' R₁ 1' R₂

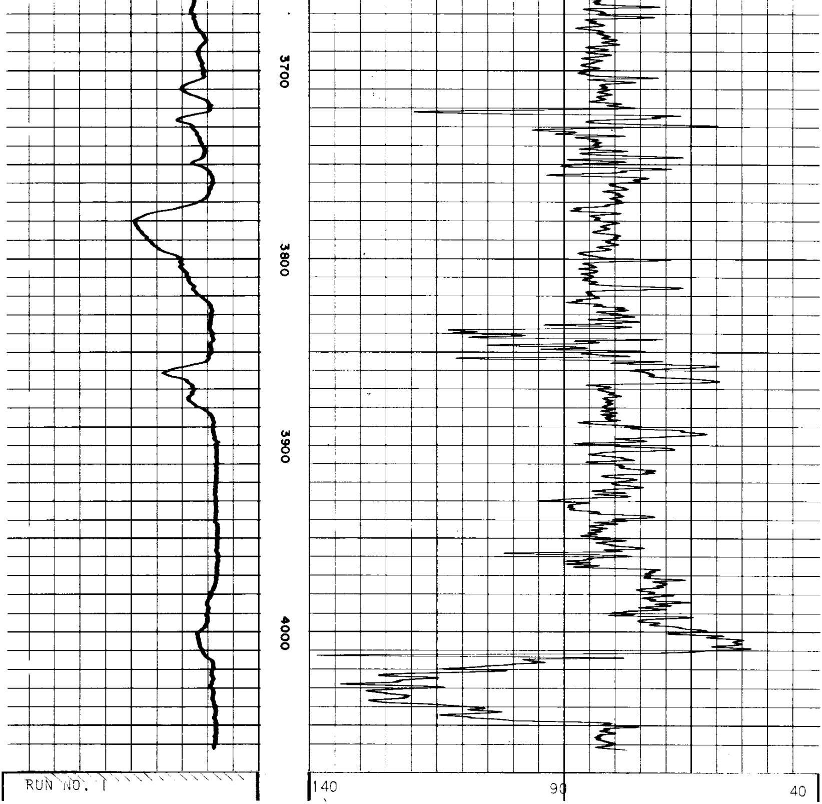
DEPTHS

SPONTANEOUS-POTENTIAL
millivolts



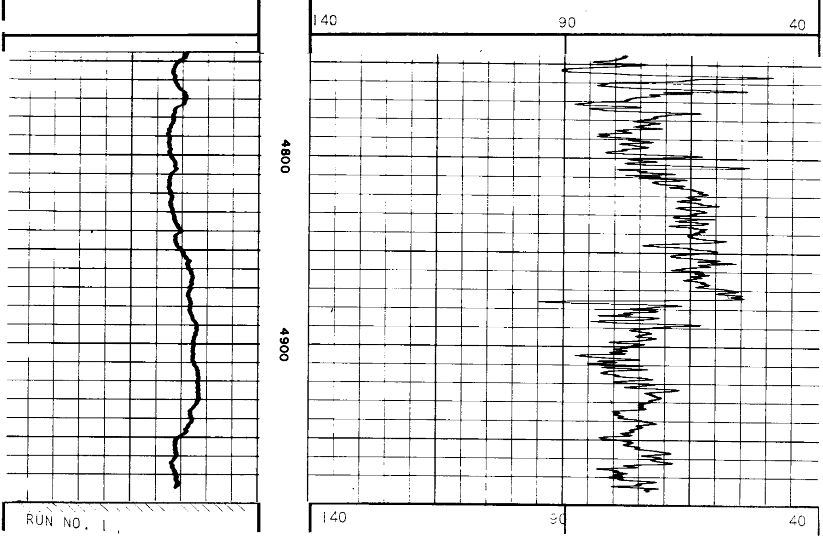






TWO INCHES = 100 FEET

SPONTANEOUS-POTENTIAL millivolts	DEPTHS	INTERVAL TRANSIT TIME microseconds per foot ← Increases T 3' R_1 1' R_2
— ↔ + 10		RUN NO. I



TWO INCHES = 100 FEET

SPONTANEOUS-POTENTIAL
millivolts

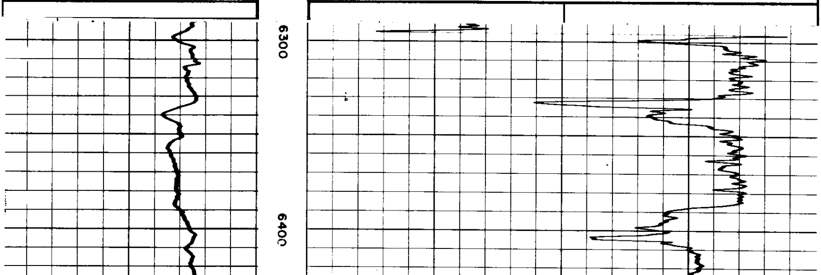
DEPTHS

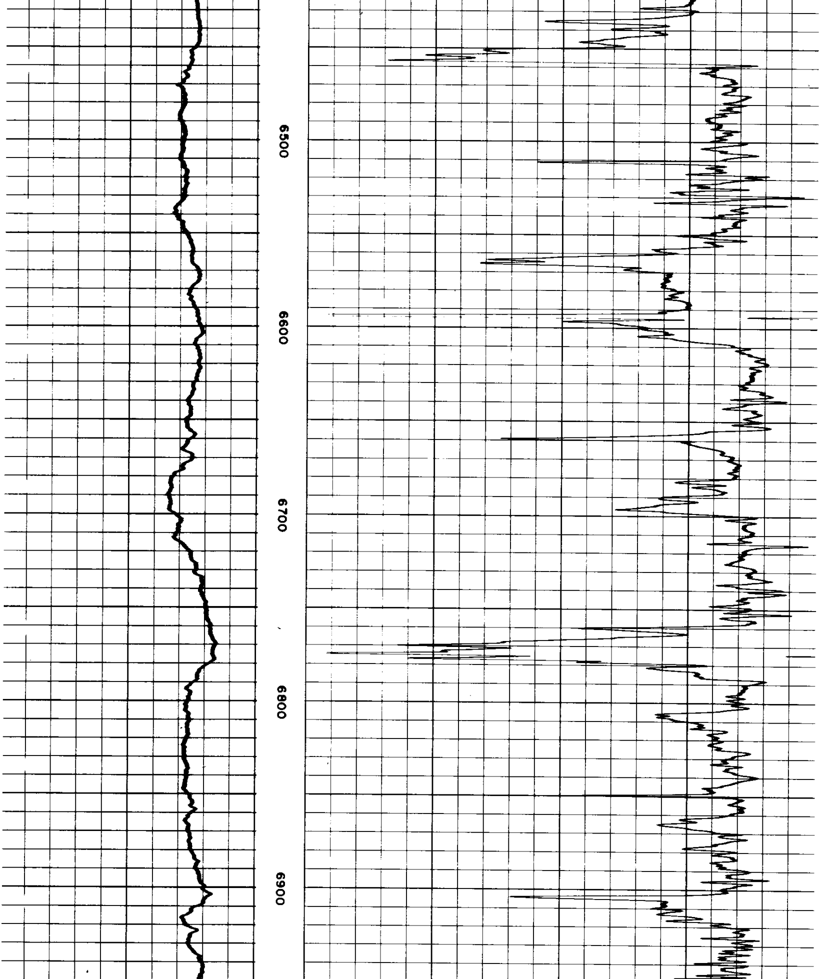
INTERVAL TRANSIT TIME
microseconds per foot
← Increases
$T\underline{3'}R_1\underline{1'}R_2$

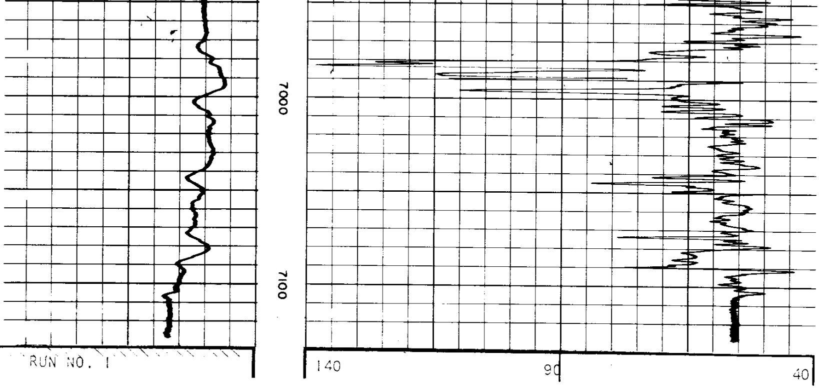
— ↔ +
10

RUN NO. 1

140 90 40







TWO INCHES = 100 FEET

SPONTANEOUS-POTENTIAL
millivolts

DEPTHS

INTERVAL TRANSIT TIME
microseconds per foot
← Increases
T 3' R_1 1' R_2

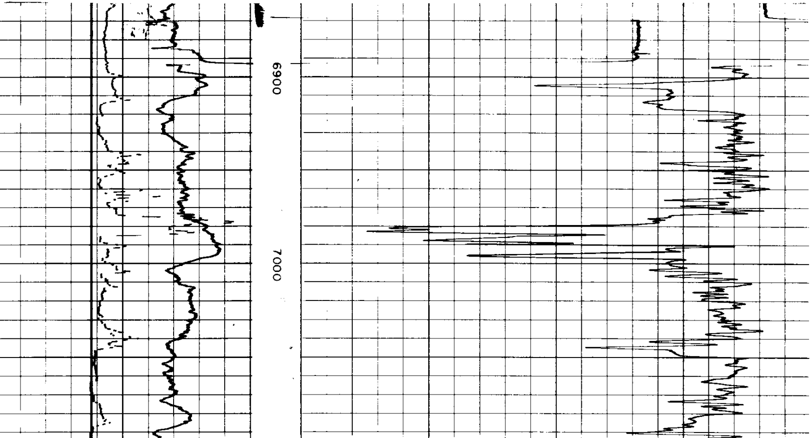
— 10 +

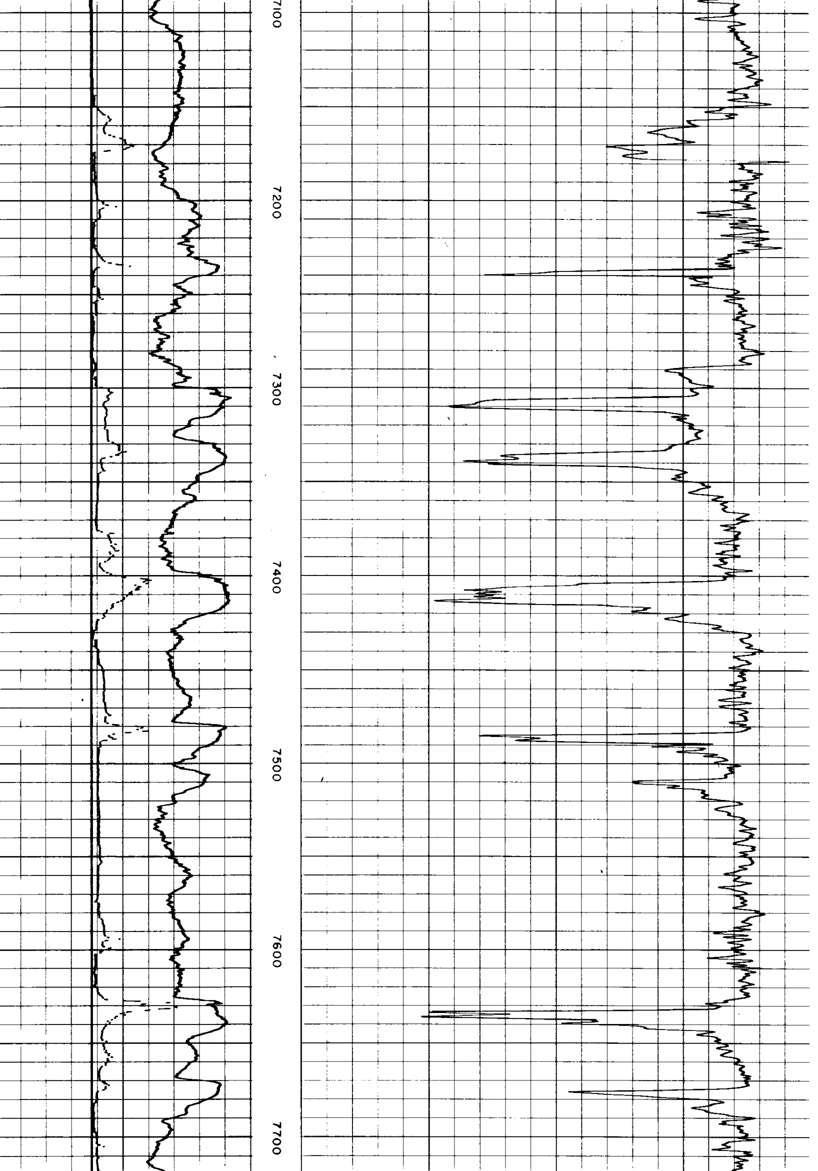
CALIPER RECORDED 5.5 FEET SHALLOW

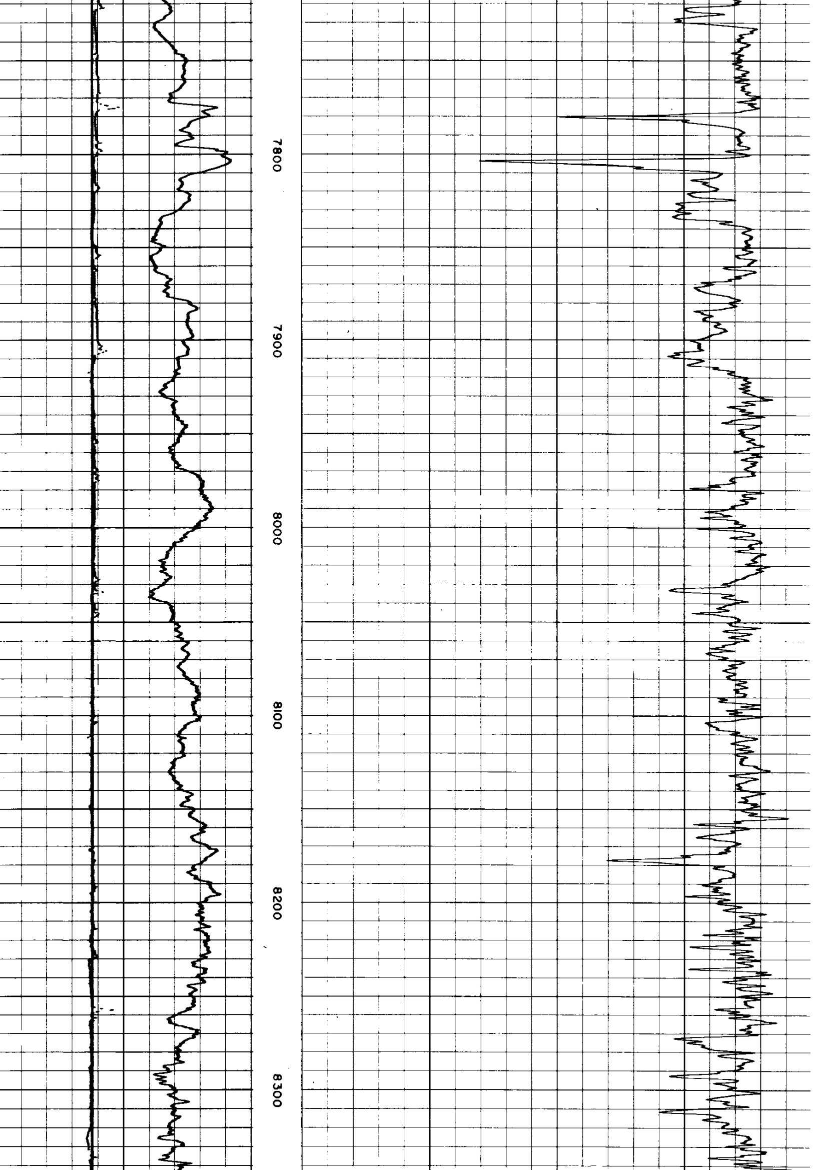
6 **CALIPER** 16

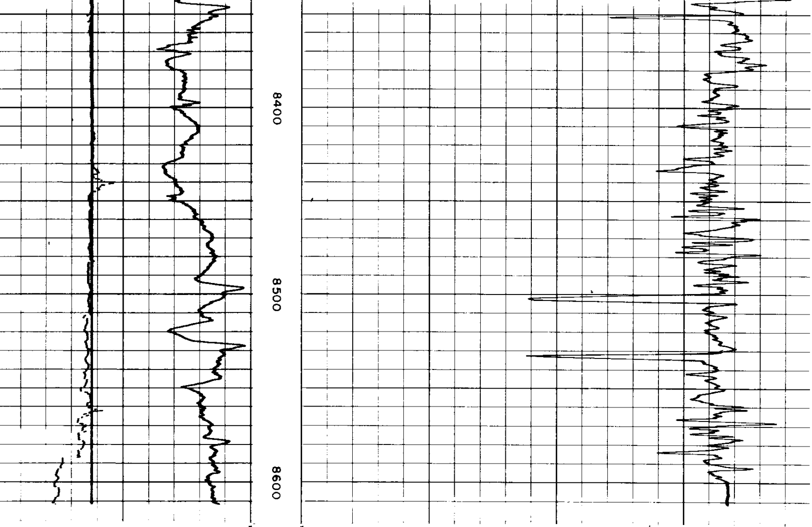
RUN NO. 2

140 90 40









6 **CALIPER** 16

CALIPER RECORDED 5.5 FEET

— 10 + SHALLOW

SPONTANEOUS-POTENTIAL
millivolts

140 90 40

INTERVAL TRANSIT TIME
microseconds per foot
← Increases
T 3' R_1 1' R_2

DEPTHS

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WELL ESMOND NO. 1
FIELD LEBANON
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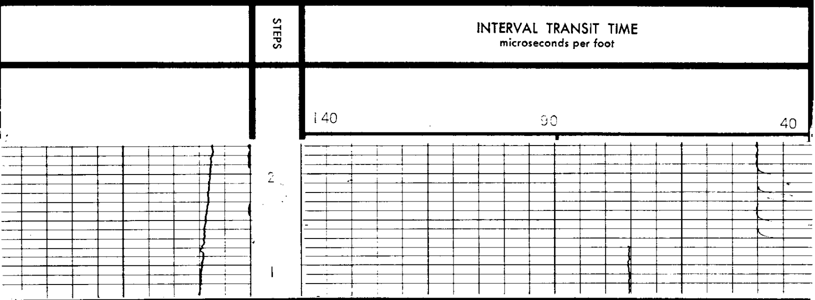
Rm .8 @ 85 °F
Rmf .26 @ 158 °F
BHT 158 °F

SWSC FR 8600
SWSC TD 8604
DRLR TD 8601
Elev:
KB 487
DF
GL 475

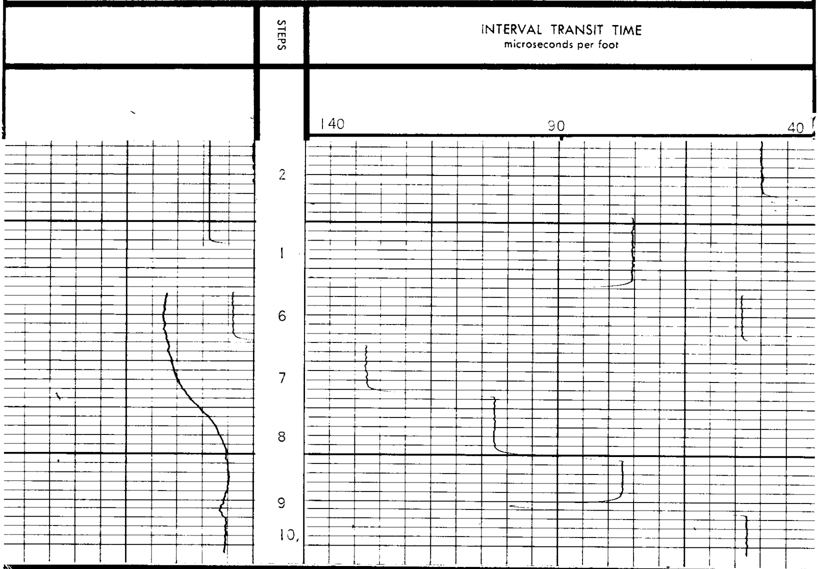
RUN NO. 1

SONIC CALIBRATION AFTER SURVEY



RUN NO. 1

SONIC CALIBRATION BEFORE SURVEY

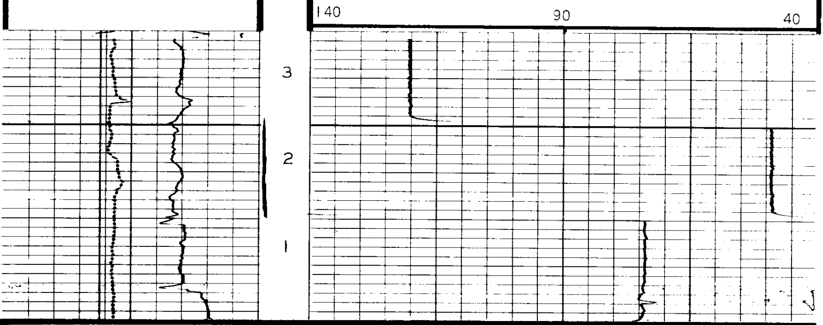


RUN NO. 2

SONIC CALIBRATION AFTER SURVEY

STEPS

INTERVAL TRANSIT TIME
microseconds per foot

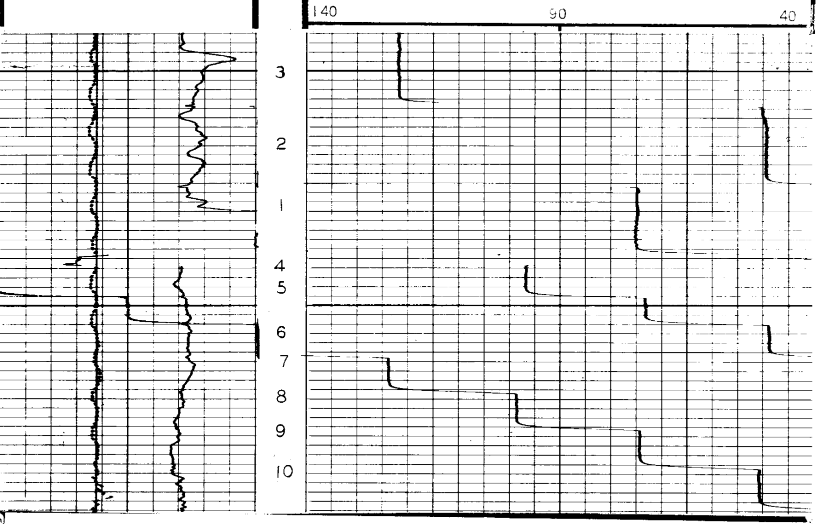


RUN NO. 2

SONIC CALIBRATION BEFORE SURVEY

STEPS

INTERVAL TRANSIT TIME
microseconds per foot



CALIBRATION STEPS

Sonic Calibration Before and After Survey

ONE FOOT SPAN— 1) 75 Microseconds Per Foot Signal
2) 150 Microseconds Per Foot Signal
3) 225 Microseconds Per Foot Signal

THREE FOOT SPAN— 4) 200 Microseconds Per Foot Signal
5) 175 Microseconds Per Foot Signal
6) 150 Microseconds Per Foot Signal
7) 125 Microseconds Per Foot Signal
8) 100 Microseconds Per Foot Signal
9) 75 Microseconds Per Foot Signal
10) 50 Microseconds Per Foot Signal

Integrator Calibration After Survey

11) 100 Microseconds Per Foot Signal
12) 50 Microseconds Per Foot Signal

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FIELD LEBANON **STATE** OREGON