INDUCTION • ELECTRIC LOG

Welex

5"=100'

COMPANY REICHHOLD ENERGY CORPORATION
WELL HAMMERBERG NO. 1
FIELD NEHALEM BASIN
COUNTY COLUMBIA STATE OREGON
Location 209' NORTH & 612' WEST OF THE EAST 1/4 CORNER OF SECTION
Sec. 14 Twp. 6N Rge. 5W
Other Services: C/AVL DIP

Permanent Datum G.L. Elev. 553.6
Log Measured From K.B. OR 10.5 Ft. Above Perm. Datum
Drilling Measured From K.B.
Elev.: K.B. 564.1
D.F.
G.L. 553.6

Date	9-13-79		
Run No.	ONE		
Depth—Driller	2851		
Depth—Welex	2851		
Btm. Log Inter.	2847		
Top Log Inter.	400		
Casing—Driller	7" @ 398	@	@
Casing—Welex	400'		
Bit Size	6 1/4		
Type Fluid in Hole	LIGNO-SULF		
Dens. | Visc.	76 | 43	|	|
pH | Fluid Loss	9.0 | 7.0ml	| ml	| ml
Source of Sample	PIT		
R_m @ Meas. Temp.	2.42 @ 90 °F	@ °F	@ °F
R_{mf} @ Meas. Temp.	2.34 @ 68 °F	@ °F	@ °F
R_{mc} @ Meas. Temp.	3.32 @ 54 °F	@ °F	@ °F
Source R_{mf} R_{mc}	MEASURED	|	|
R_m @ BHT	1.92 @ 113°F	@ °F	@ °F
Time Since Circ.	3 HOURS		
Max. Rec. Temp.	113°F @ BHT	°F @	°F @
Equip. | Location	94301 | WDLND	|	|
Recorded By	KENNEDY		
Witnessed By	BRUER, CLARE		

COMPANY REICHHOLD ENERGY CORPORATION
WELL HAMMERBERG NO. 1
FIELD NEHALEM BASIN
County COLUMBIA State ORE.

Fold Here

Service Ticket No. 048896 Remarks:

Change in Mud Type or Additional Samples

Date | Sample No.	|	|
Depth—Driller		
Type Fluid in Hole		
Dens. | Visc.	|	|
ph | Fluid Loss	| ml	|
Source of Sample		
R_m @ Meas. Temp.	@ °F	@ °F
R_{mf} @ Meas. Temp.	@ °F	@ °F
R_{mc} @ Meas. Temp.	@ °F	@ °F
Source: R_{mf} | R_{mc}	|	|
R_m @ BHT	1.92 @113 °F	@ °F
R_{mf} BHT	1.86 @113 °F	@ °F
R_{mc} BHT	1.70 @113 °F	@ °F

SCALE CHANGES

Type Log	Depth	Scale Up Hole	Scale Down Hole

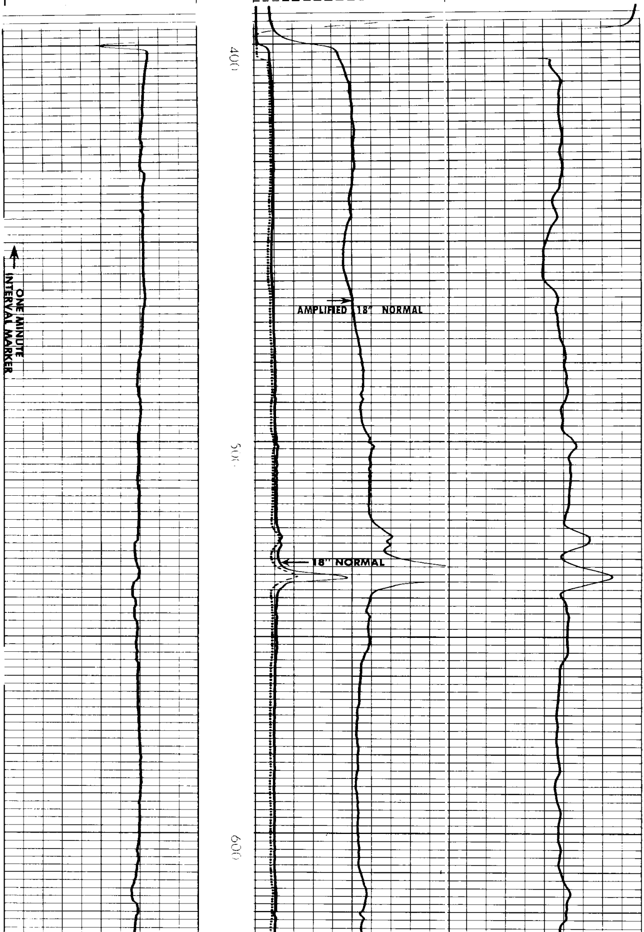
EQUIPMENT DATA

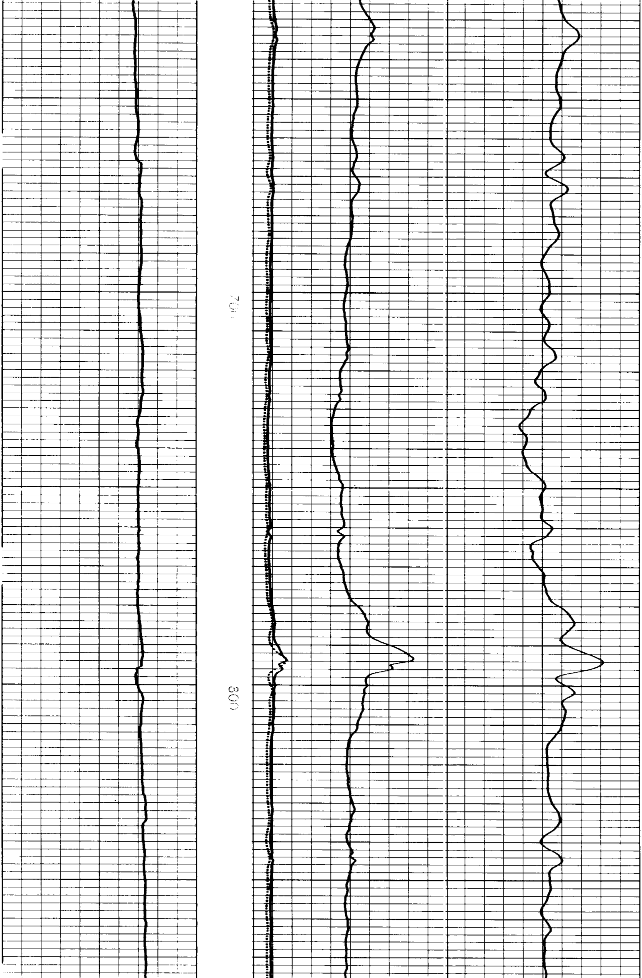
Run No.	Tool Type and No.	Pad Type	Tool Position	Other
ONE	IEL 13552		FREE	

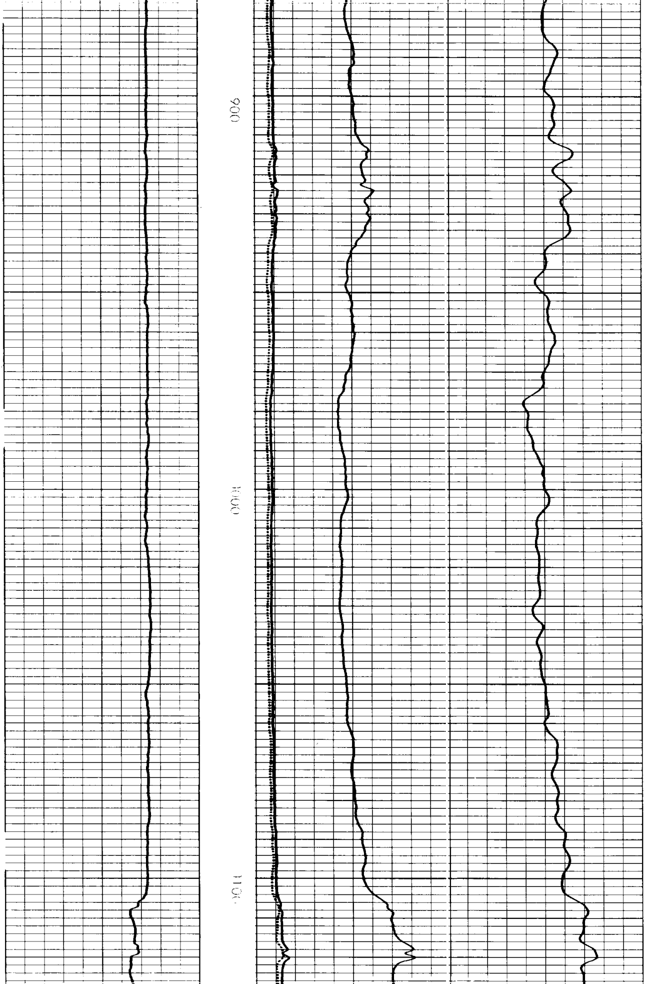
Welex does not guarantee the accuracy of any interpretation of log data, conversion of log data to physical rock parameters, or recommendations which may be given by Welex personnel or which may appear on the log or in any other form. Any user of such data, interpretations, conversions, or recommendations agrees that Welex is not responsible, except where due to gross negligence or wilful misconduct, for any loss, damages, or expenses resulting from the use thereof.

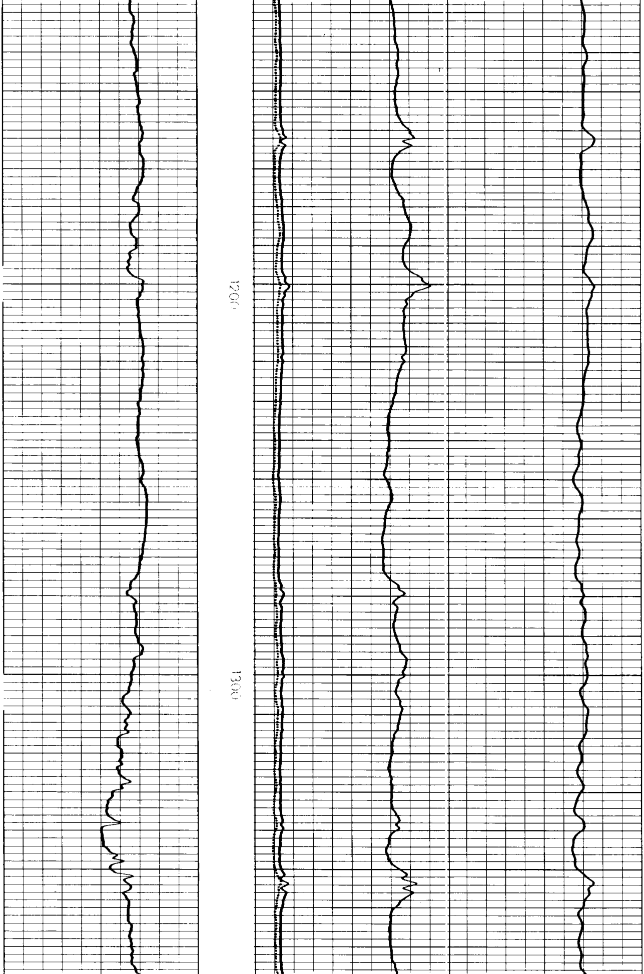
5" = 100'

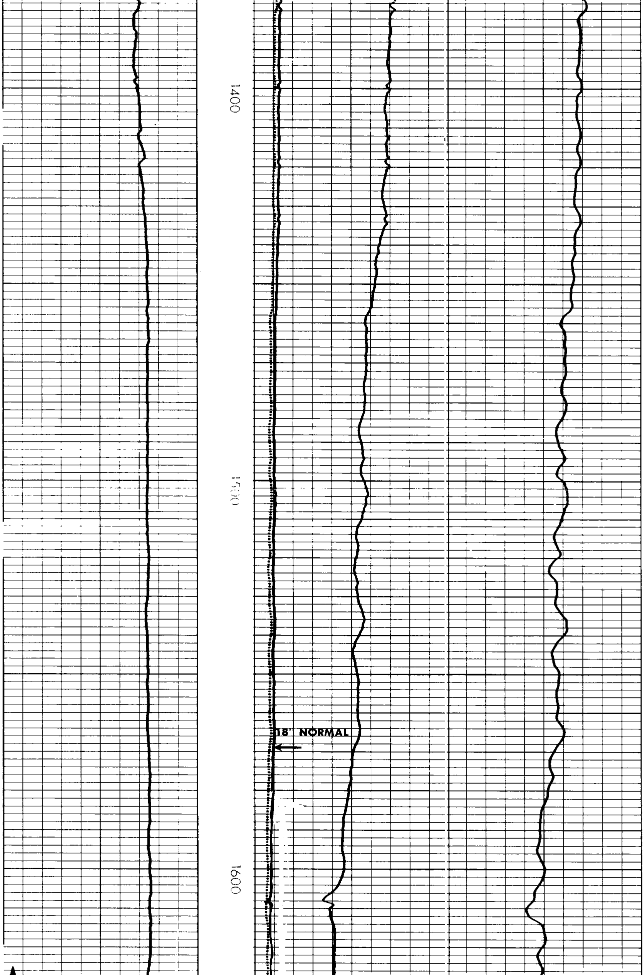
POTENTIAL MILLIVOLTS	RESISTIVITY OHMS M²/M	CONDUCTIVITY M MHOS/M
– → 10 ← +	0 18" Normal 30	1000 Induction 0
	0 O.S. 300	2000 O.S. 1000
Rmf ______ at ______ °F.	0 18'' AMP. NORMAL 6	
	0 Induction 30	
	0 O.S. 300	

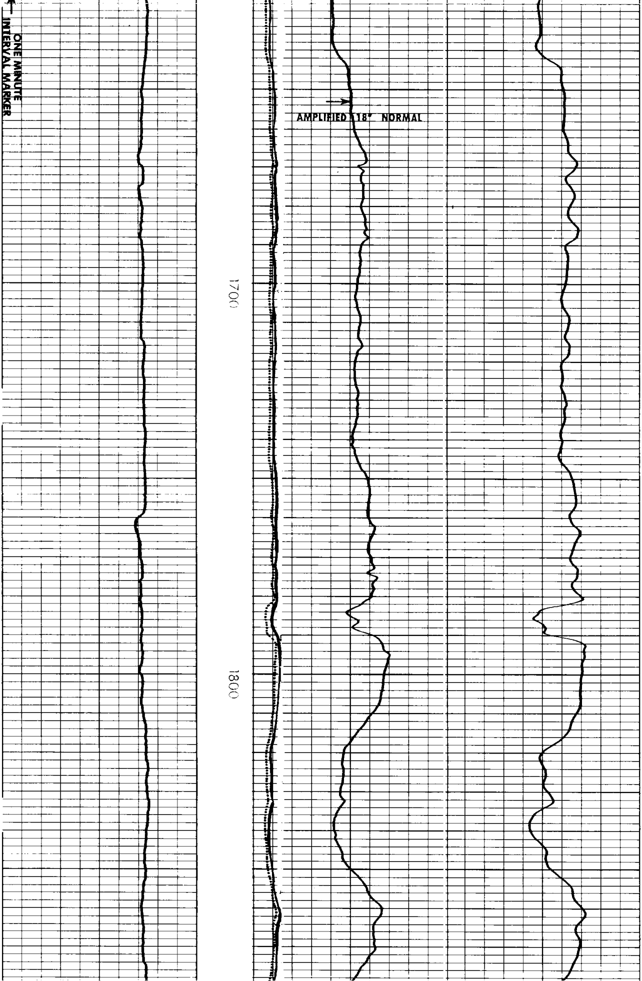


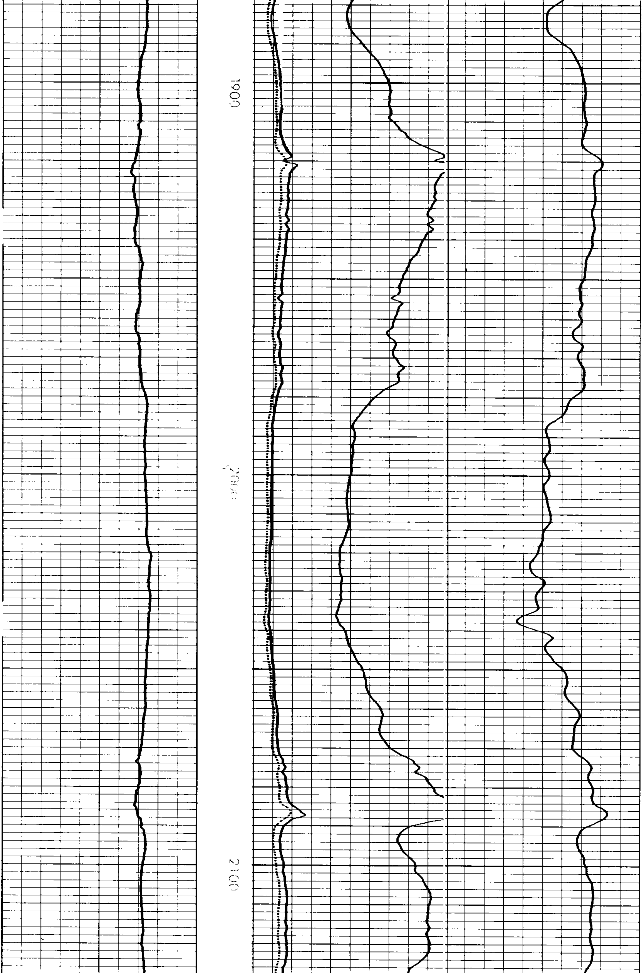


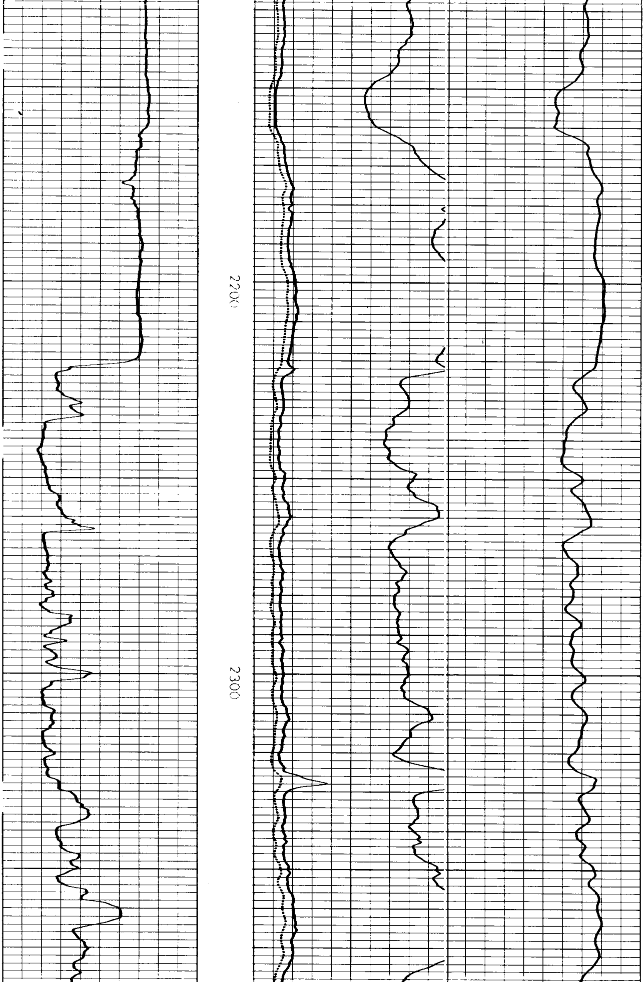


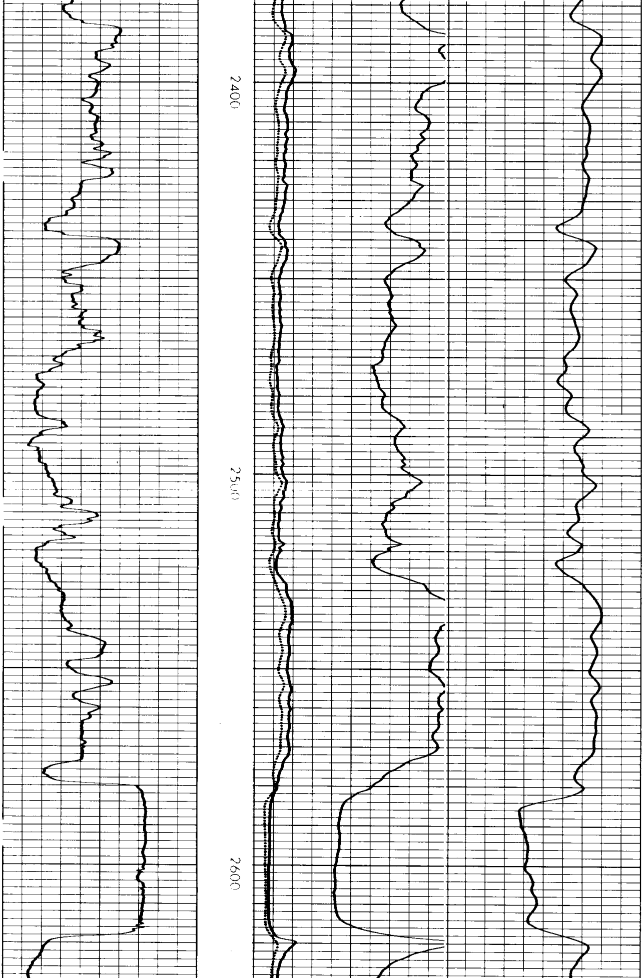


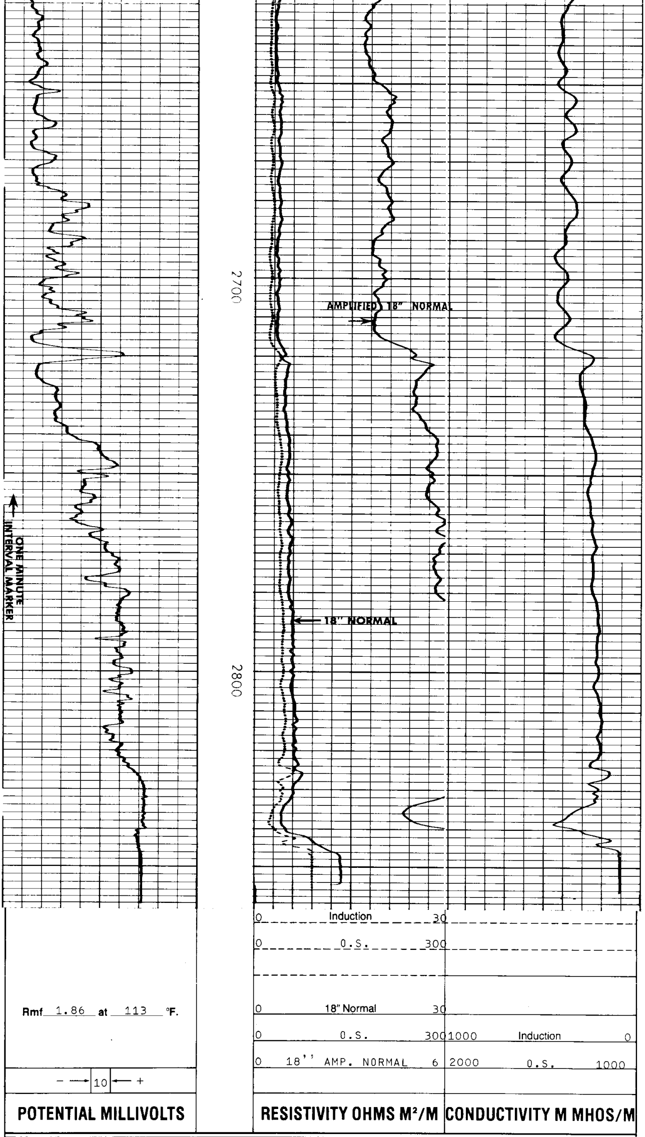












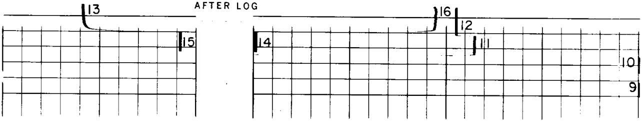
Rmf 1.86 at 113 °F.

REICHHOLD ENERGY CORPORATION
HAMMERBERG NO. 1
NEHALEM BASIN
COLUMBIA COUNTY, OREGON

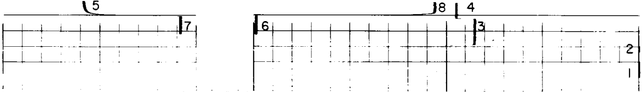
T.D. LOGGED	2847
T.D. DRILLER	2851
T.D. WELEX	2851

ELEV: KB 564.1 GL 553.6

AFTER LOG



BEFORE LOG



INDUCTION ELECTRIC LOG FIELD CALIBRATIONS

1. RECORDER ZERO — COND
2. LOW REF. — ZERO CALIB.
3. HIGH REF. — INTERNAL CALIB. — BASE OUT
4. HIGH REF + BASE - INTERNAL CAL BASE IN
5. S P BASE
6. RECORDER ZERO - NORMAL AND/OR LATERAL
7. S.P. + 50 M.V.
8. NORMAL AND/OR LATERAL REFERENCE
9. RECORDER ZERO — COND.
10. LOW REF. — ZERO CALIB.
11. HIGH REF. - INTERNAL CALIB. - BASE OUT
12. HIGH REF. + BASE - INTERNAL CAL. BASE IN
13. S. P. BASE
14. RECORDER ZERO - NORMAL AND/OR LATERAL
15. S. P. + 50 M.V.
16. NORMAL AND/OR LATERAL REFERENCE

1 THRU 8 — BEFORE LOG
9 THRU 16 — AFTER LOG
ALL SENSITIVITIES AT LOG SCALES,
EXCEPT AS NOTED