Case No.

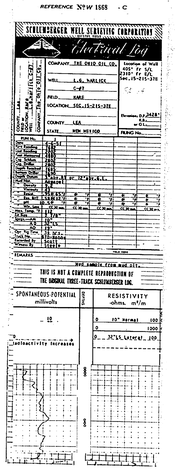
274

Large Exhibits

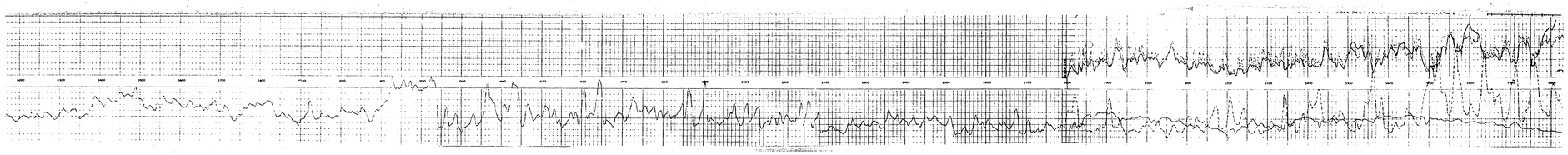
Ohio
Fill 01

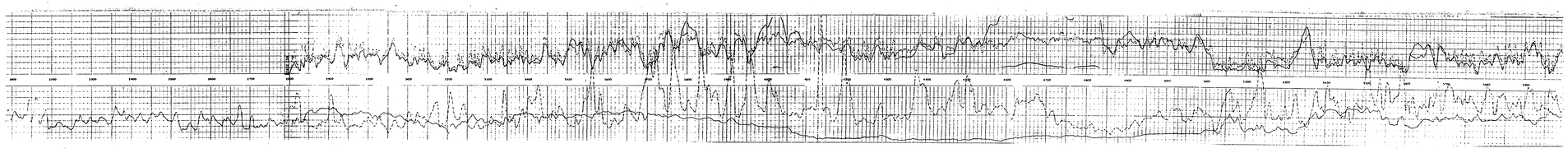
Reproduced By
West Texas Electrical Log Service
1305 Commerce Street
Dallas 1, Texas

REFERENCE NMW 1565 - C



342





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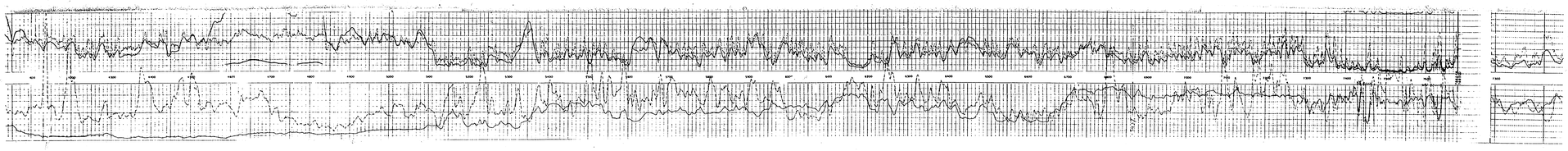

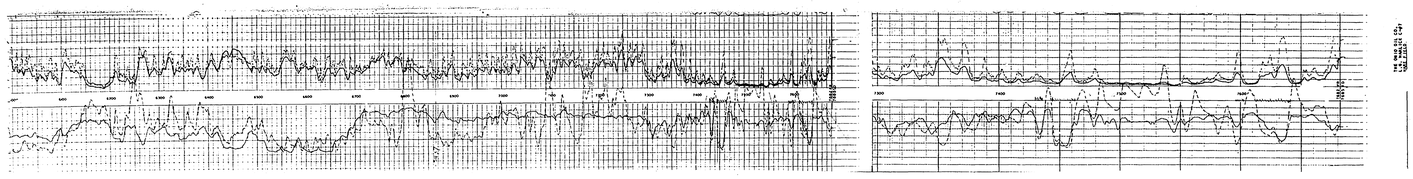

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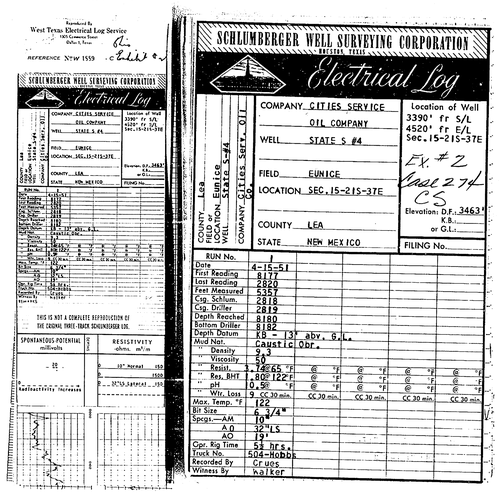


Reproduced By
West Texas Electrical Log Service
1409 Commerce Street
Dallas 2, Texas

REFERENCE No. W 1559

SCHLUMBERGER WELL SURVEYING CORPORATION
Houston, Texas

Electrical Log

COMPANY CITIES SERVICE OIL COMPANY
WELL STATE S #4
FIELD EUNICE
LOCATION SEC. 15-21S-37E
COUNTY LEA
STATE NEW MEXICO

Location of Well
3390' fr S/L
4520' fr E/L
Sec. 15-21S-37E

Ex. #2
Case 274
CS

Elevation: D.F. 3463'
K.B.
or G.L.

FILING No.

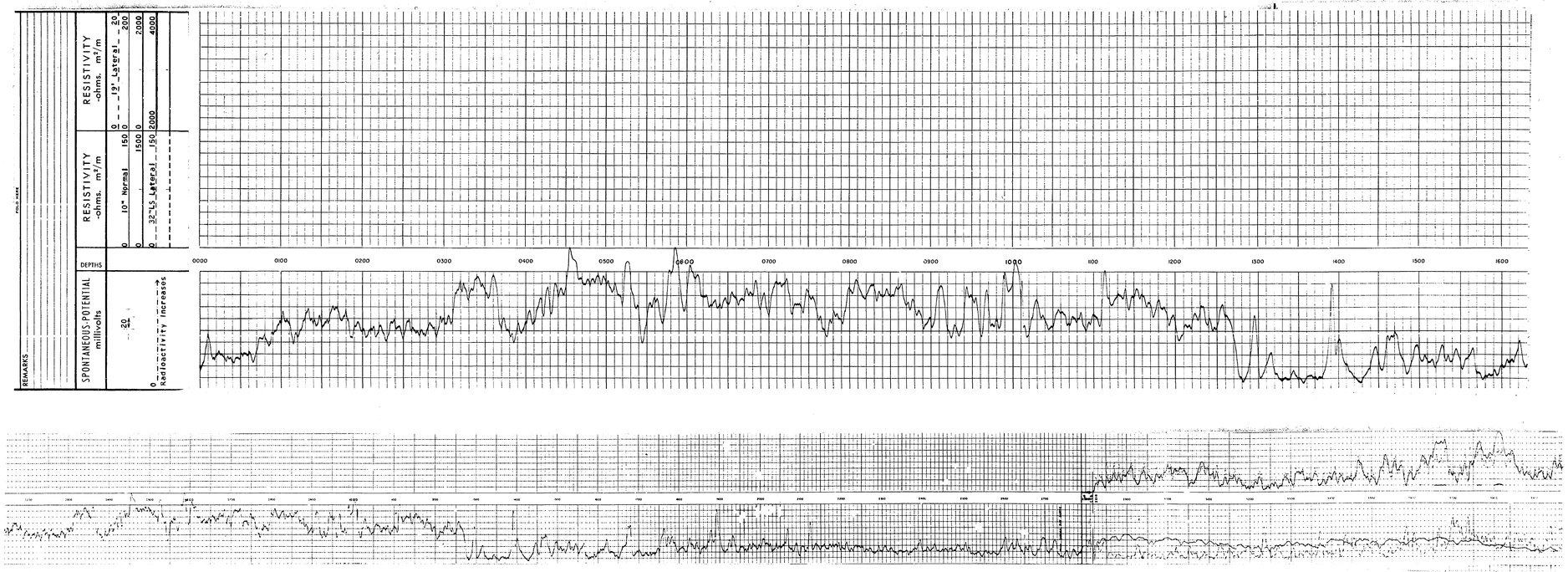
RUN No.	1					
Date	4-15-51					
First Reading	8177					
Last Reading	2820					
Feet Measured	5357					
Csg. Schlum.	2818					
Csg. Driller	2819					
Depth Reached	8180					
Bottom Driller	8182					
Depth Datum	KB - 13' abv. G.L.					
Mud Net.	Caustic Odr.					
" Density	9.3					
" Viscosity	58					
" Resist.	3.76@65 °F	@ °F	@ °F	@ °F	@ °F	@ °F
" Res. BHT	1.80@122°F	@ °F	@ °F	@ °F	@ °F	@ °F
" pH	10.5@ °F	@ °F	@ °F	@ °F	@ °F	@ °F
" Wtr. Loss	9 cc 30 min.	cc 30 min.	cc 30 min.	cc 30 min.	cc 30 min.	cc 30 min.
Max. Temp. °F	122					
Bit Size	6 3/4"					
Spcgs.—AM	10'					
AO	22'LS					
AO	19'					
Opr. Rig Time	53 hrs.					
Truck No.	504-Hobbs					
Recorded By	Cruos					
Witness By	Walker					

THIS IS NOT A COMPLETE REPRODUCTION OF THE ORIGINAL THREE-TRACK SCHLUMBERGER LOG

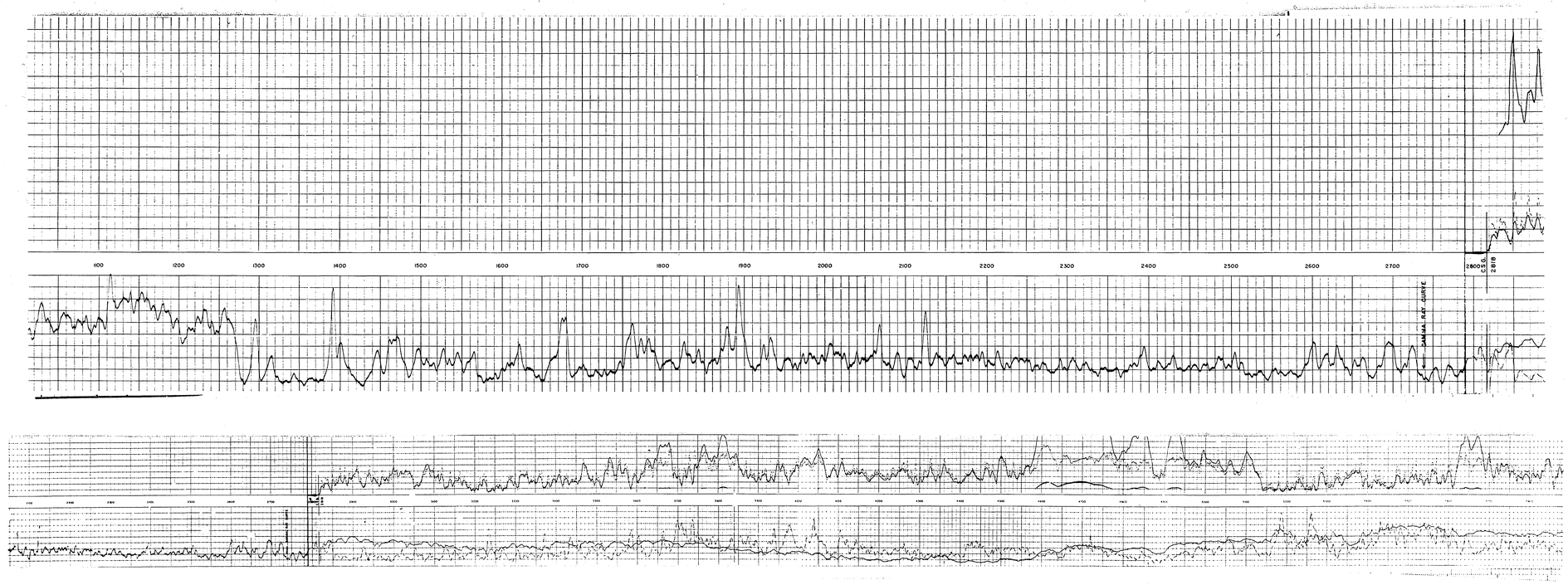
SPONTANEOUS POTENTIAL millivolts

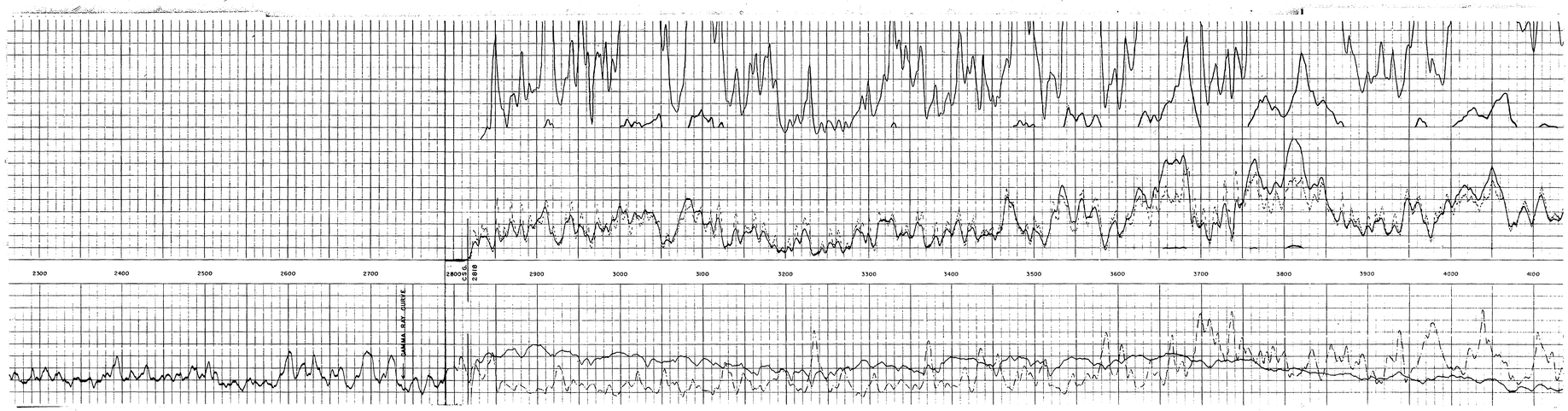
RESISTIVITY ohms m²/m

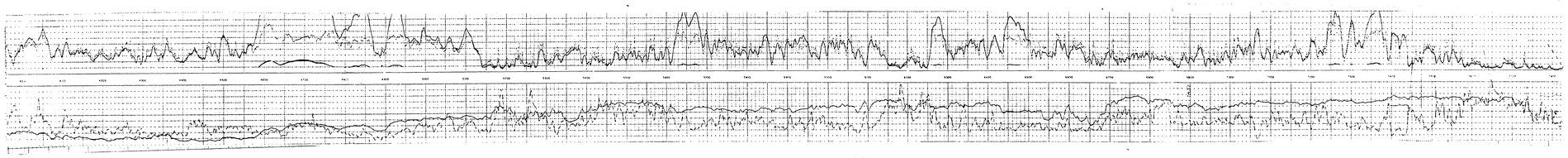
347

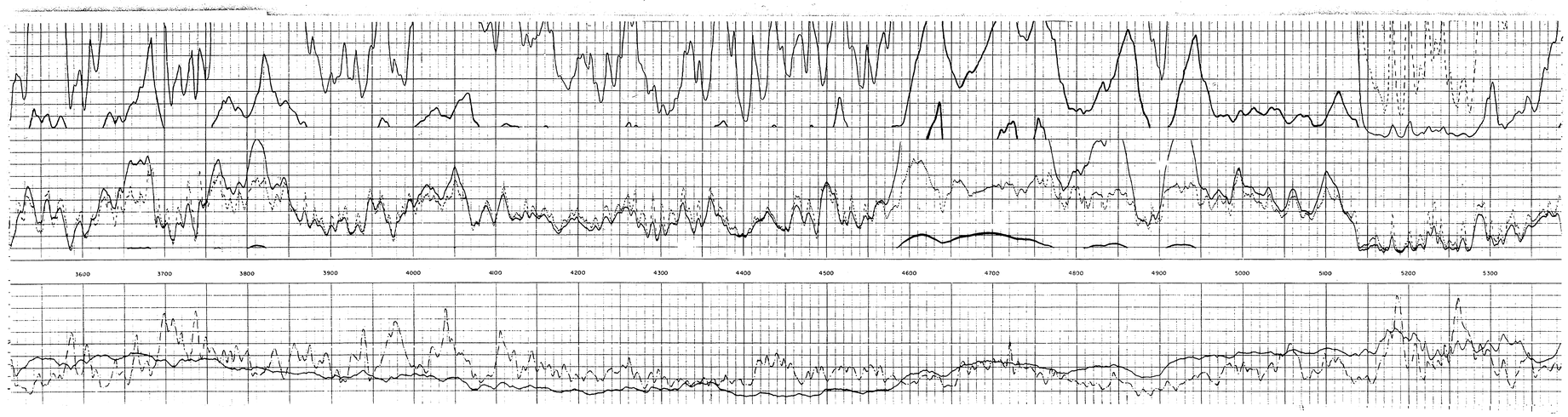

RESISTIVITY
-ohms. m²/m
0 150
10" Normal
0 1500
32'-5.5 Lateral
RESISTIVITY
-ohms. m²/m
0 20
19' Lateral
0 200
0 2000
150 2000 4000
DEPTHS
SPONTANEOUS POTENTIAL
millivolts
20
0
Radioactivity increases
REMARKS
0000 0100 0200 0300 0400 0500 0600 0700 0800 0900 1000 1100 1200 1300 1400 1500 1600

348


1100
1200
1300
1400
1500
1600
1700
1800
1900
2000
2100
2200
2300
2400
2500
2600
2700
2800
GAMMA RAY CURVE


2300
2400
2500
2600
2700
2800
2810
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000
4100
GAMMA RAY CURVE

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4800
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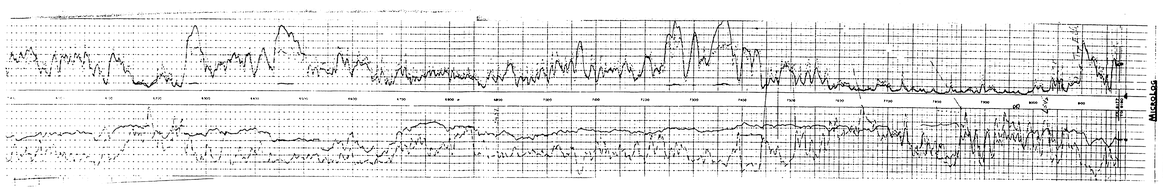
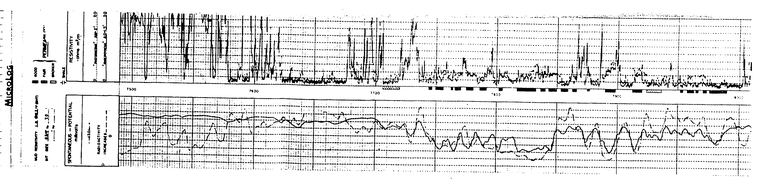
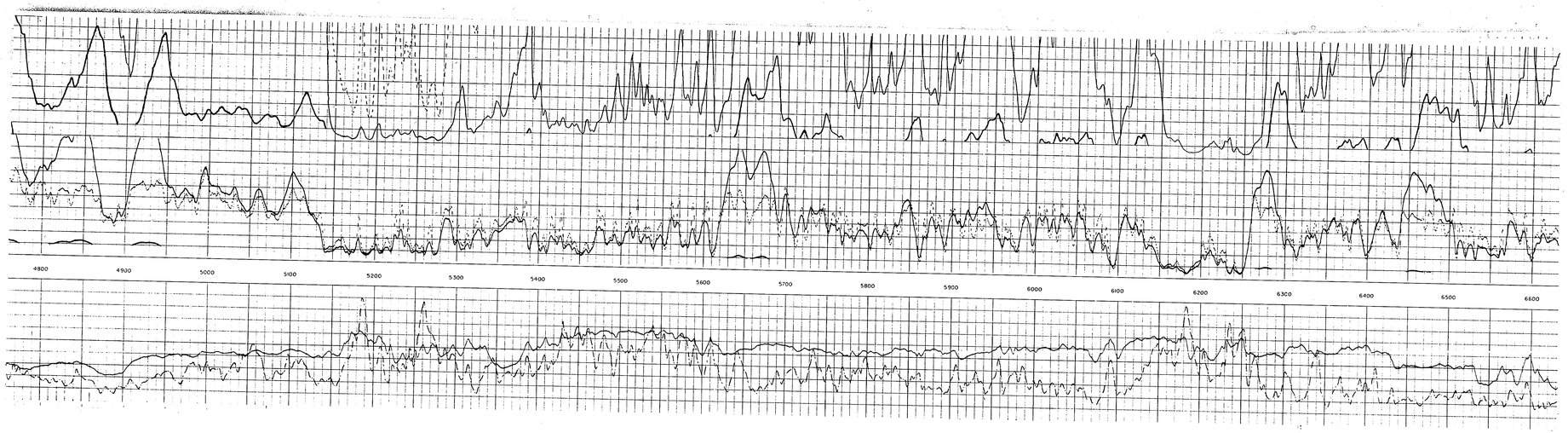
5000
5100
5200
5300



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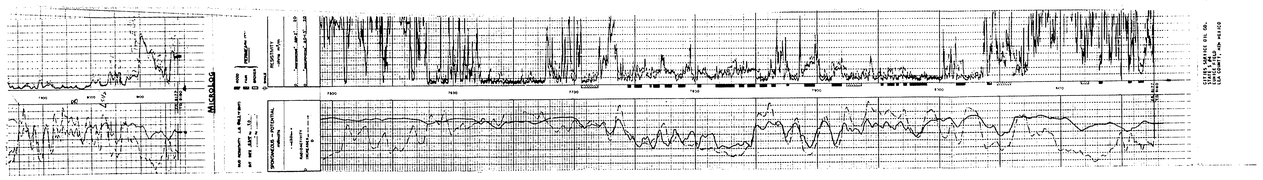
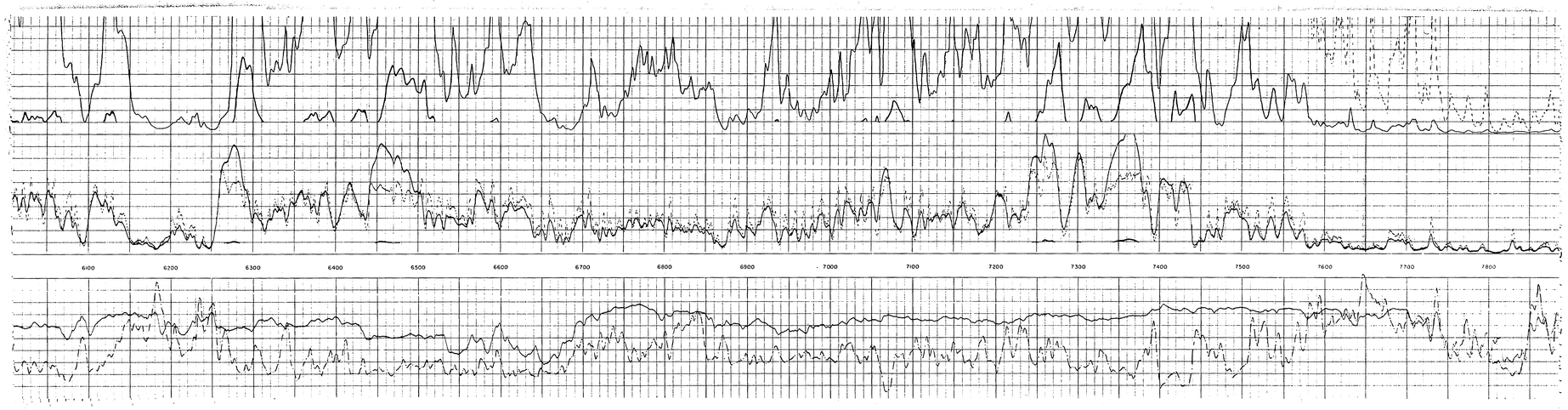
6600

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6200
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7200
7300
7400
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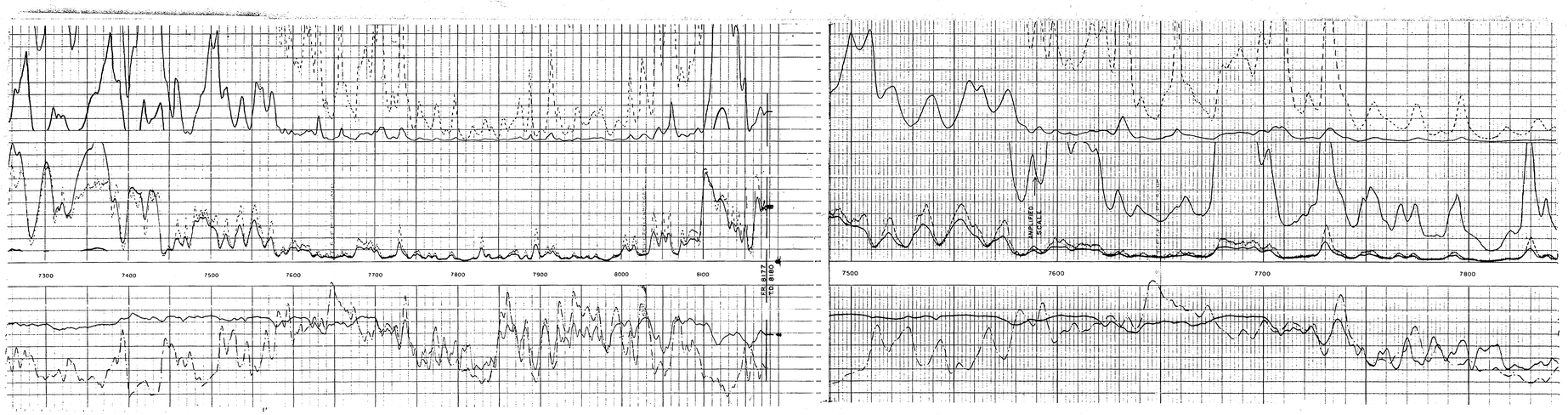
7600
7700
7800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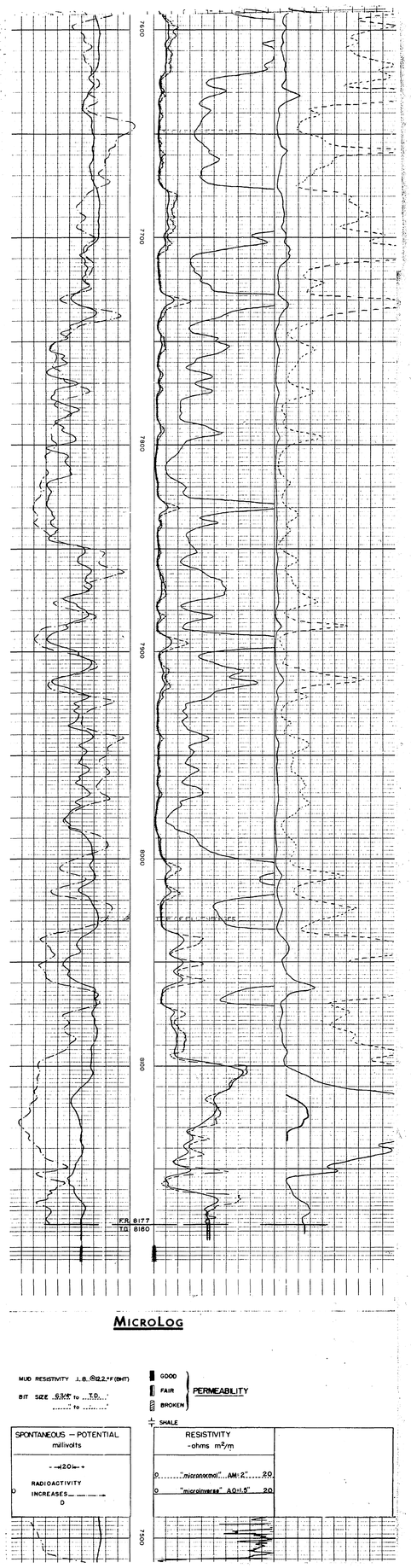
7400
7500
7600
7700
7800
7900
8000
8100
FR 8177
TO 8180
7500
7600
7700
7800
AMPLIFIED
SIGNAL

357



MICROLOG

MUD RESISTIVITY 1.8. @ 92.°F (BHT)

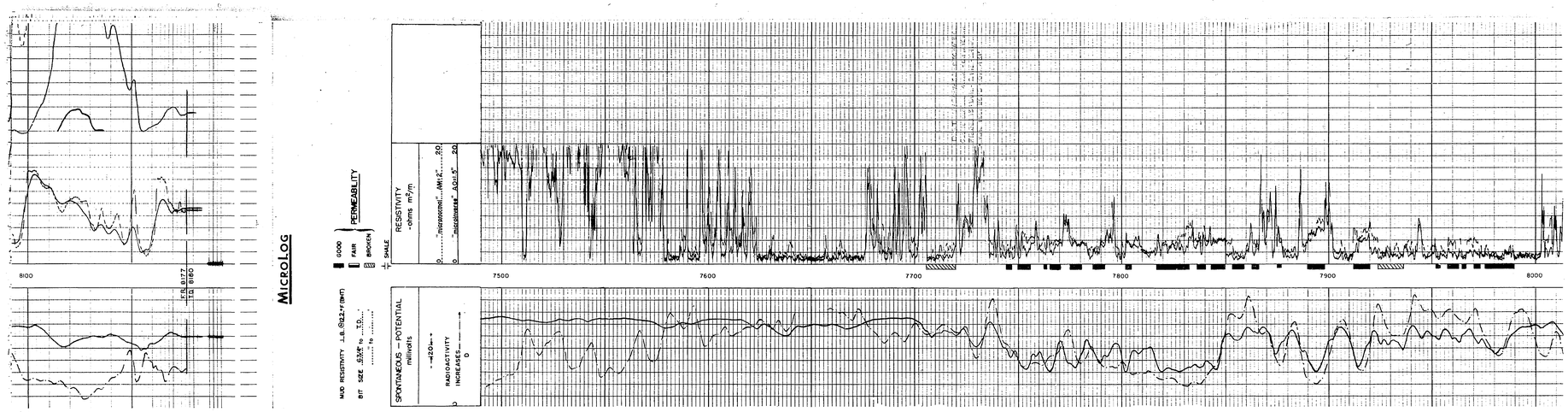
BIT SIZE 6 3/4" to T.D. '

" to '

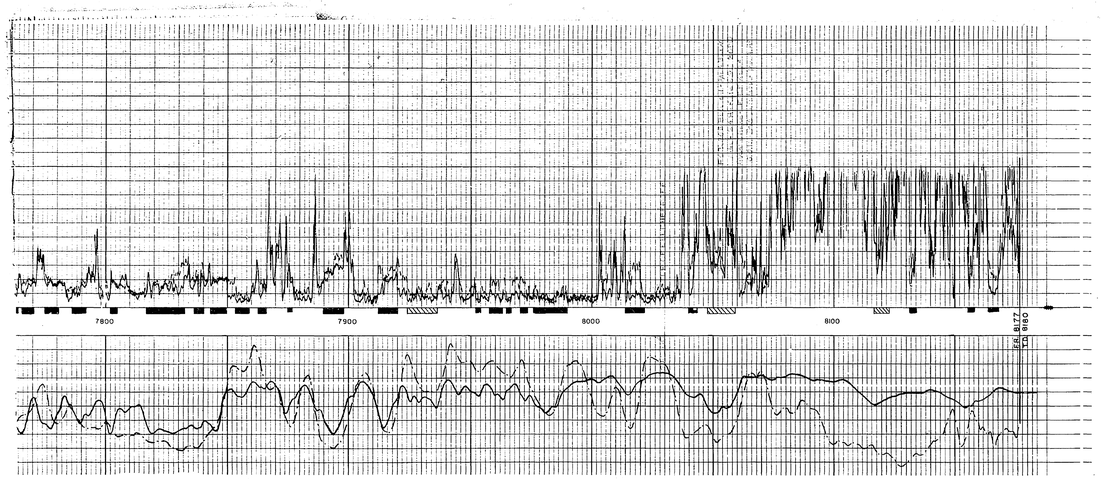
GOOD
FAIR
BROKEN
PERMEABILITY

SHALE

SPONTANEOUS — POTENTIAL millivolts	RESISTIVITY - ohms m^2/m	
-+20+-	0 "micronormal" AM: 2" 20	
RADIOACTIVITY INCREASES → 0	0 "microinverse" AO: 1.5" 20	


MICROLOG
8100
T.D. 8177
T.D. 8180
PERMEABILITY
6000
FAIR
BROKEN
SCALE
RESISTIVITY
-ohms m²/m.
0
20
"microcurrent" AM=2"
"microinverse" AO=1.5"
7500
7600
7700
7800
7900
8000
MUD RESISTIVITY ..@62°F(am)
BIT SIZE 6¾" to T.D.
to
SPONTANEOUS — POTENTIAL
millivolts
-20-
RADIOACTIVITY
INCREASES

356


7800
7900
8000
8100
FA 8177
TD 8180
CITIES SERVICE OIL CO.
STATE S #4
ELDA EXT. FIELD
LEA COUNTY, NEW MEXICO

Eq #6 Case 274 CS

TWO ZONE PRODUCTION METHOD USING A BAKER MODEL 'D' RETAINER PRODUCTION PACKER, A TUBING SEAL NIPPLE LOCATOR SUB WITH EXTENSION AND AND ONE MULTI-V TUBING SEAL NIPPLE.

DWG NO. 121 117

358

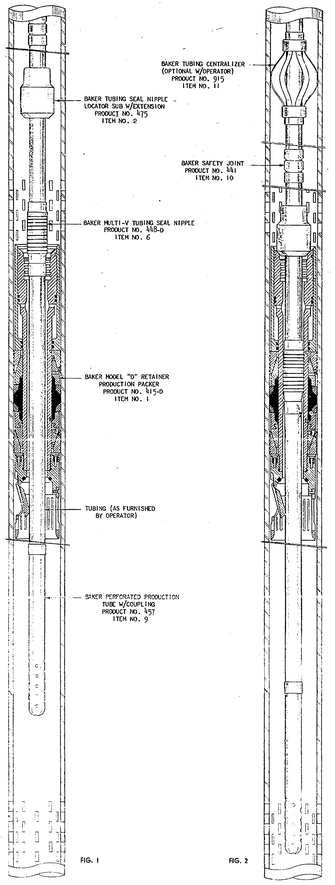
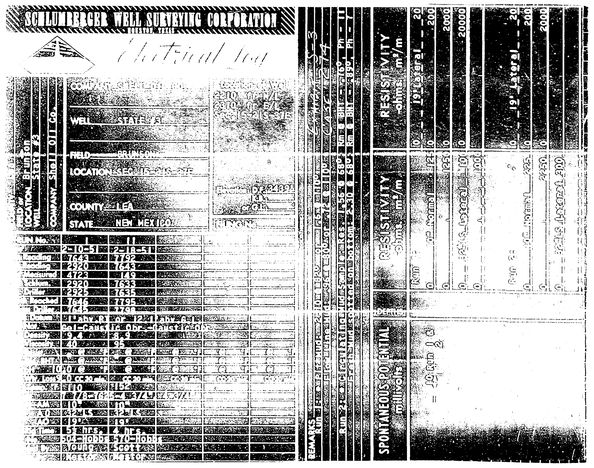
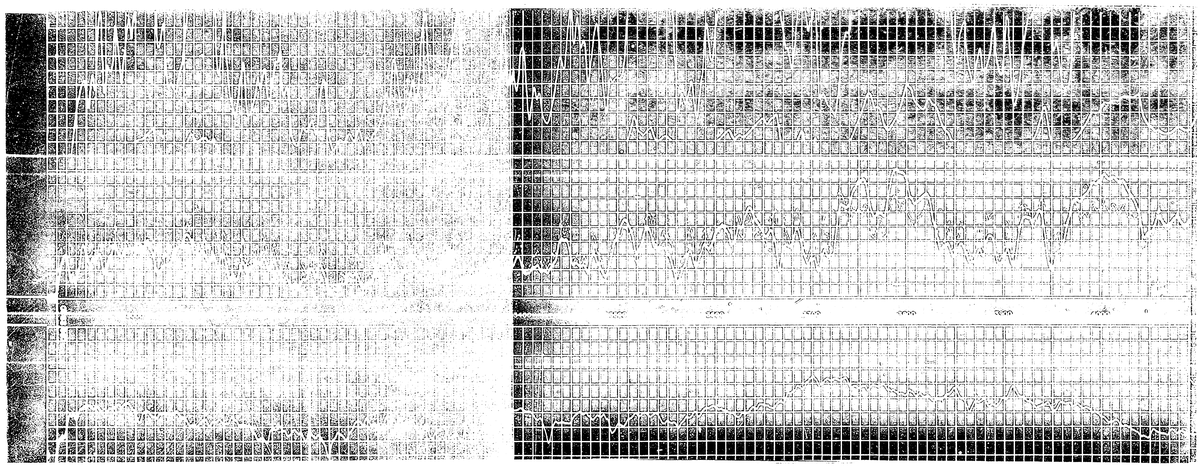
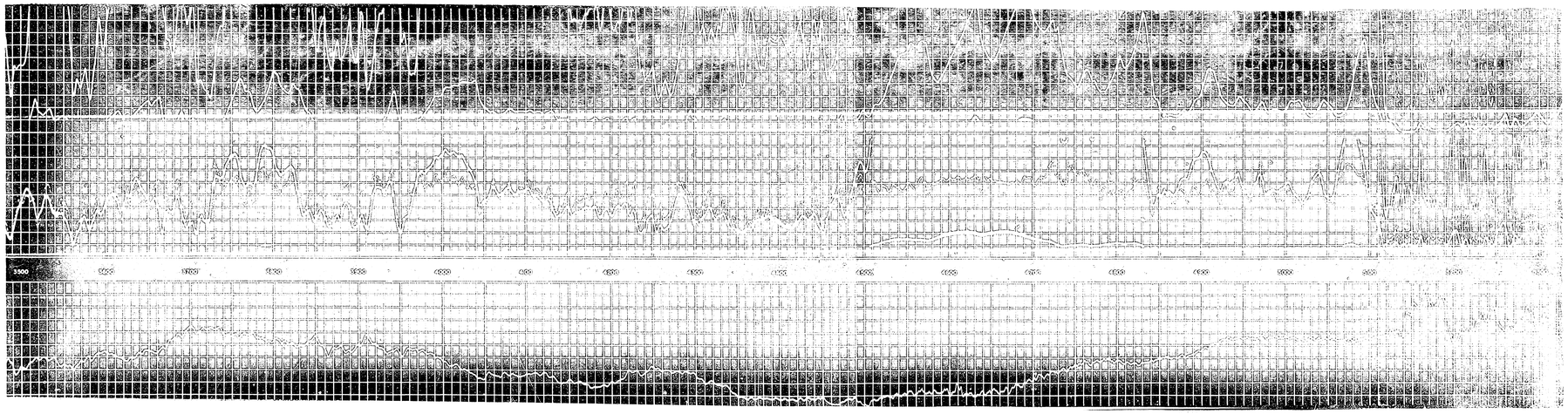


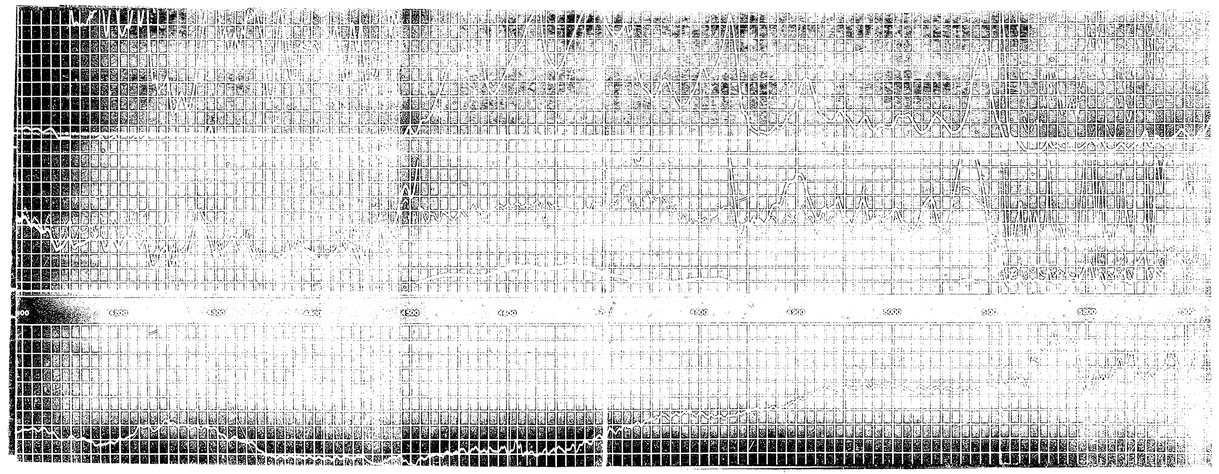
FIG. 1 FIG. 2

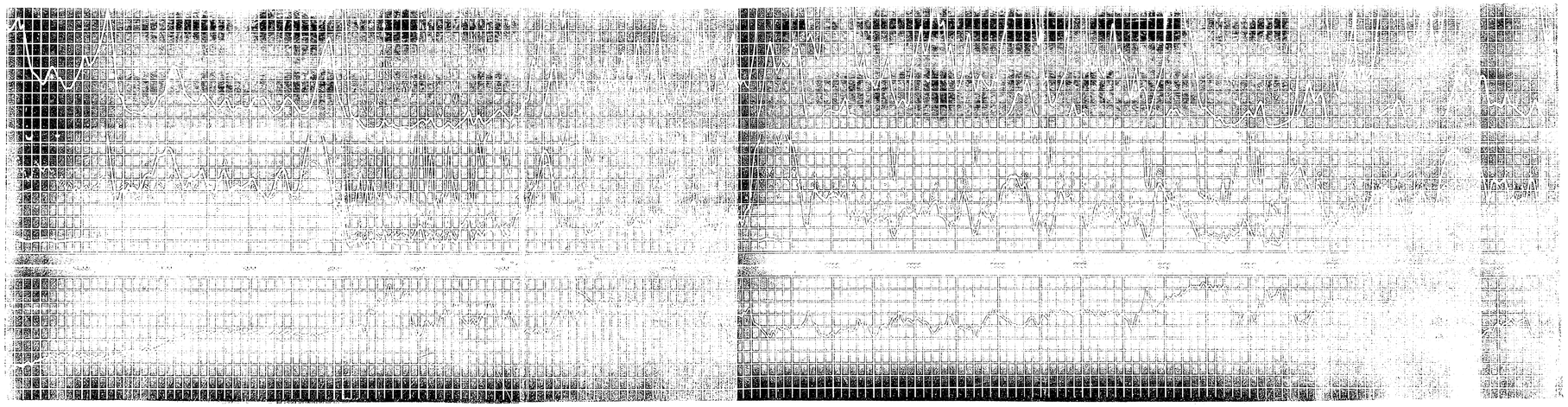

SCHLUMBERGER WELL SURVEYING CORPORATION
Electrical Log
WELL
FIELD
LOCATION
COUNTY LEA
STATE NEW MEXICO
RESISTIVITY
ohmm m²/m
16" Lateral
64" Normal
SPONTANEOUS POTENTIAL
millivolts

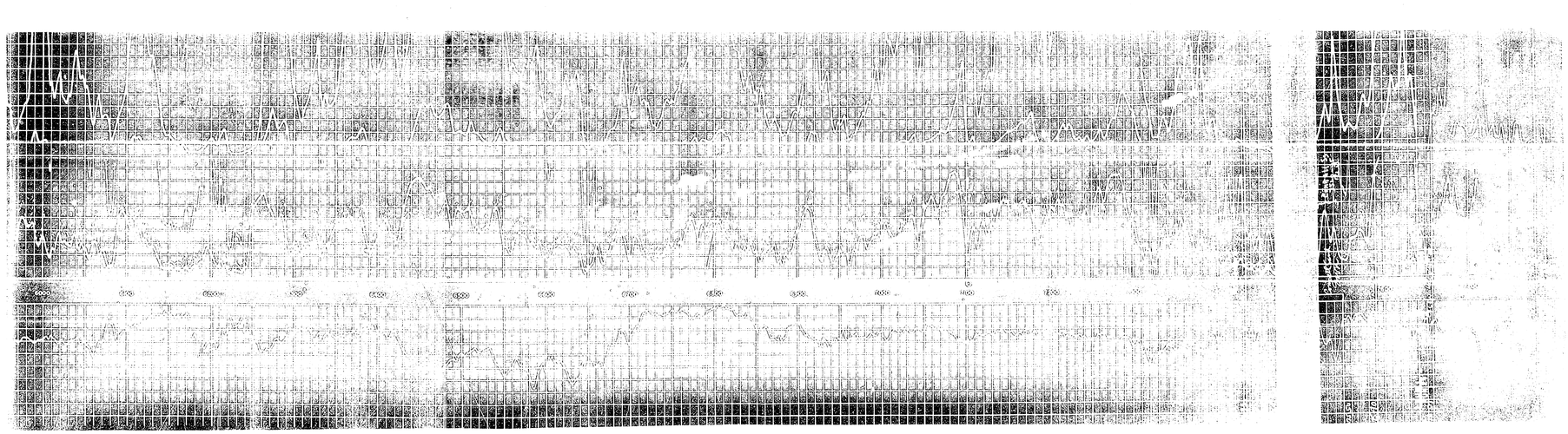
359





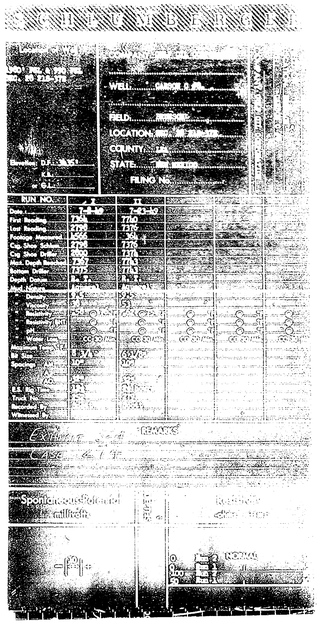


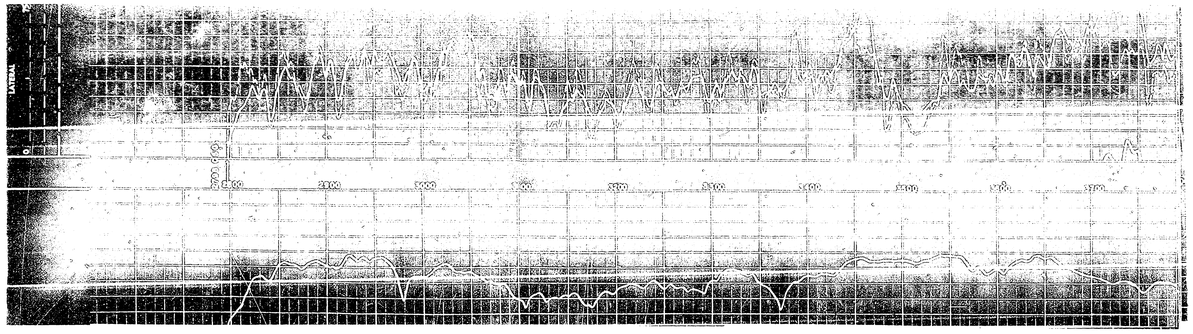


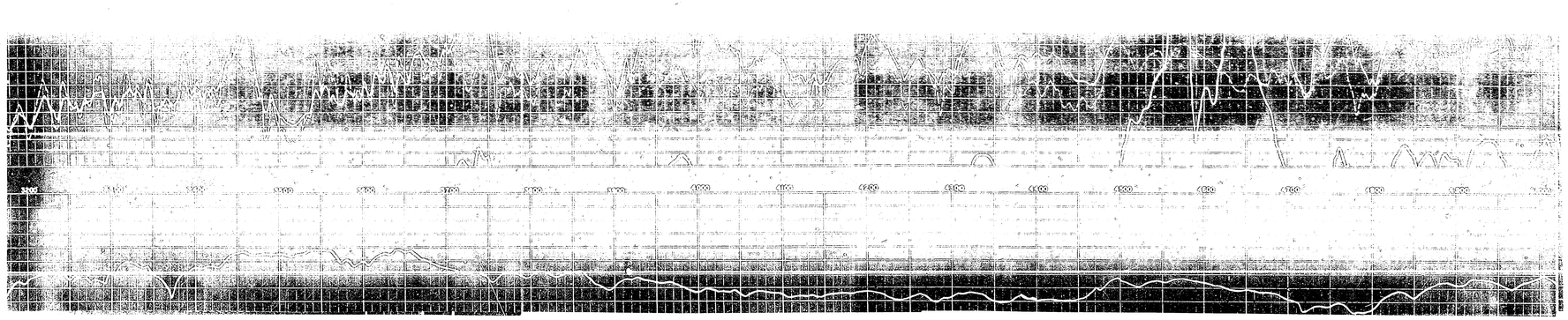


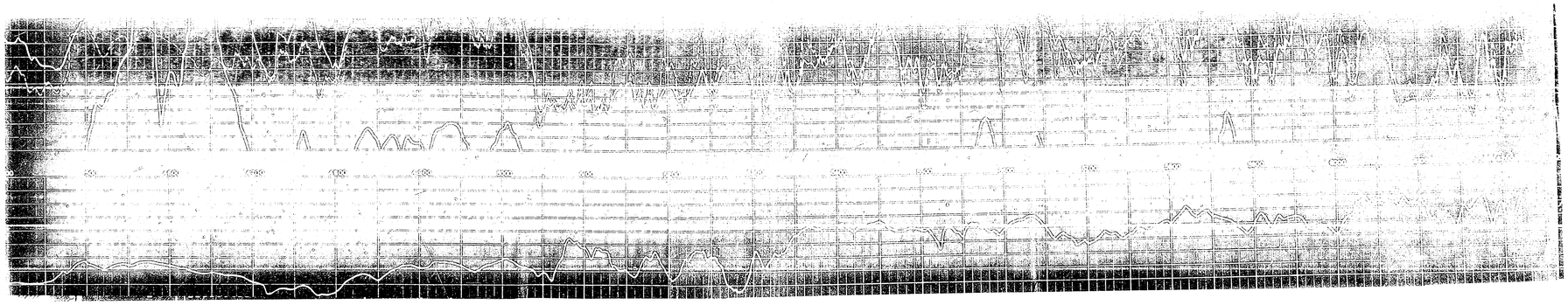
36%

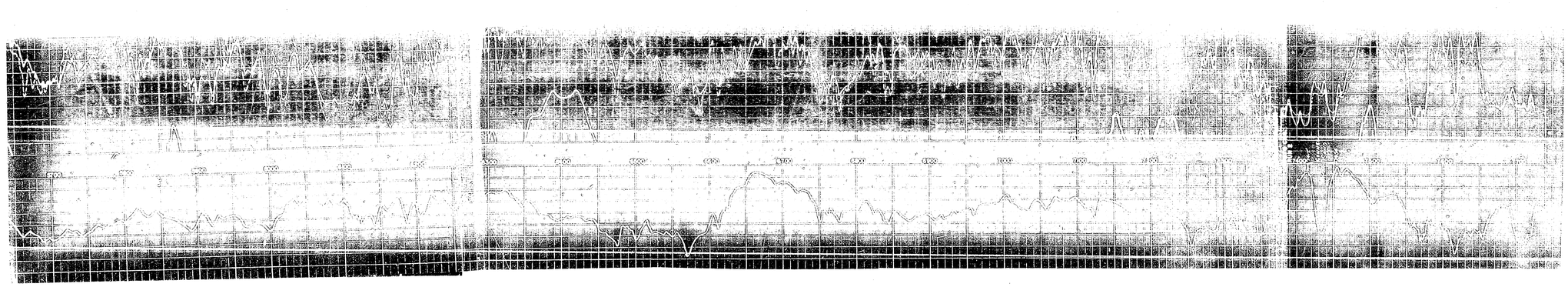
365

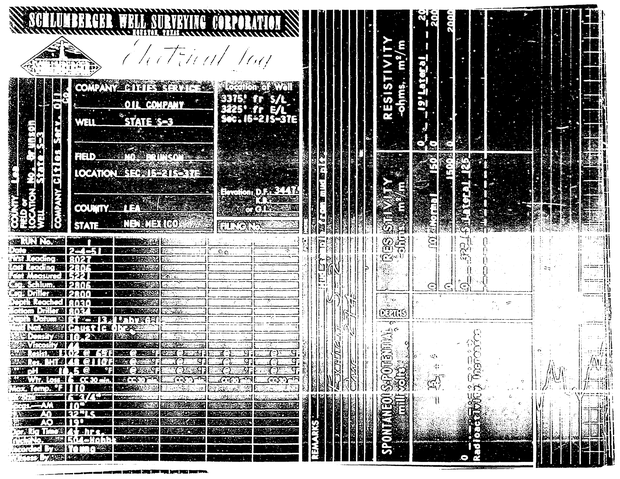



LATERAL

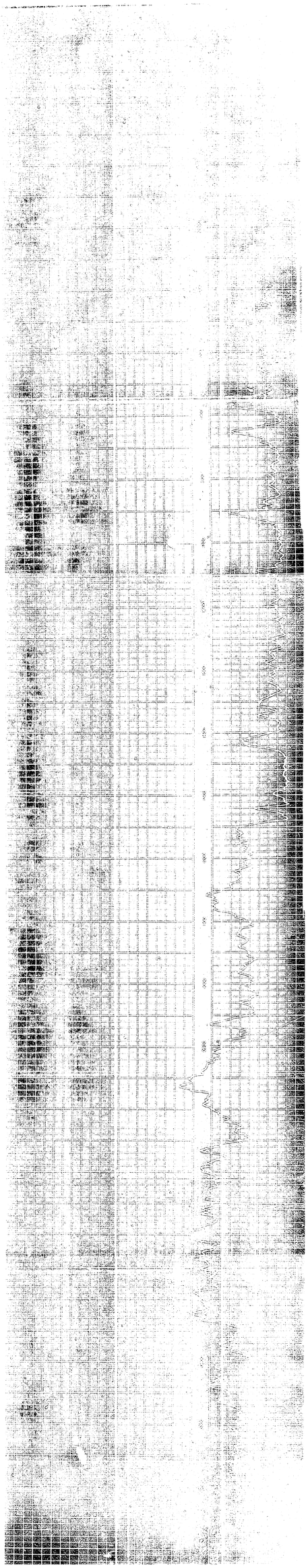


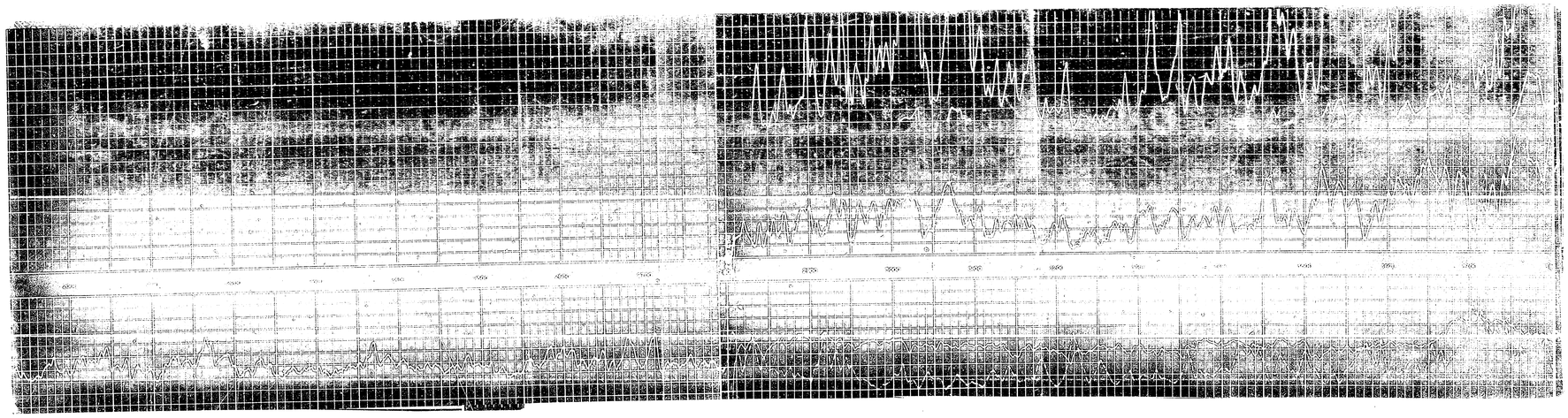


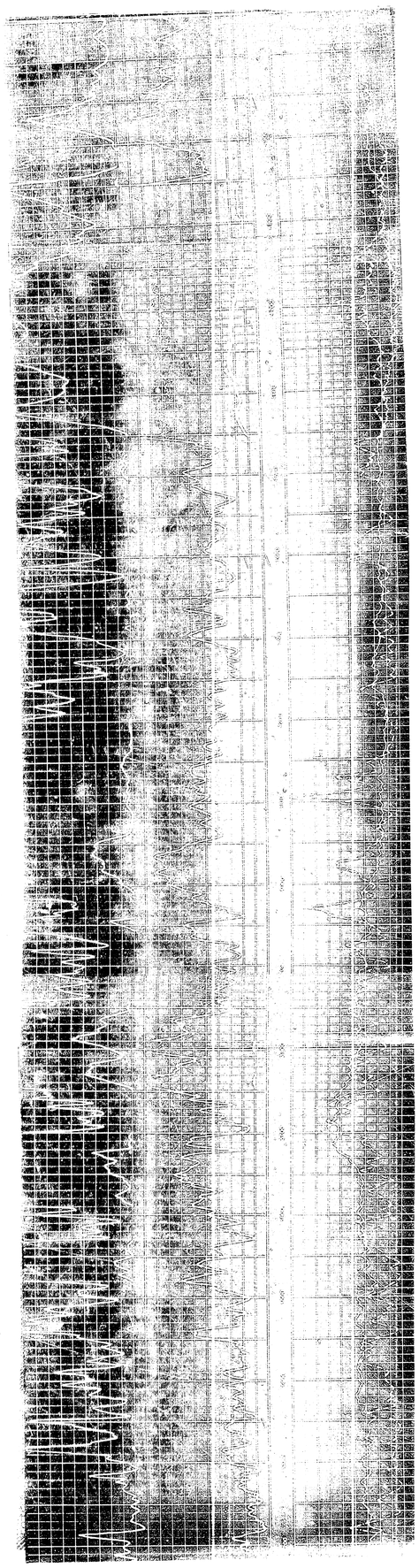


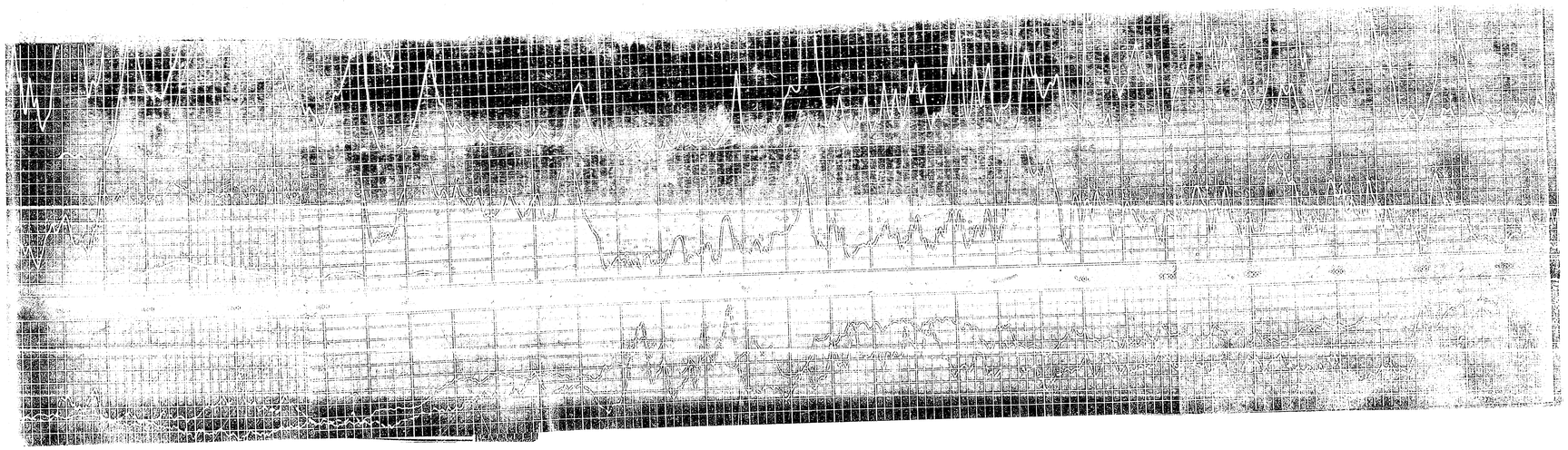

SCHLUMBERGER WELL SURVEYING CORPORATION
Electrical Survey
COMPANY GULF STATES SERVICE
OIL COMPANY
WELL STATE S-3
FIELD NO. BRUNSON
LOCATION SEC. 16-21S-37E
COUNTY LEA
STATE NEW MEXICO
Location of Well
3375' fr S/L
3825' fr E/L
Sec. 16-21S-37E
Elevation: D.F. 3447
K.B.
G.L.
FILING No.
RESISTIVITY
SPONTANEOUS POTENTIAL
REMARKS

370









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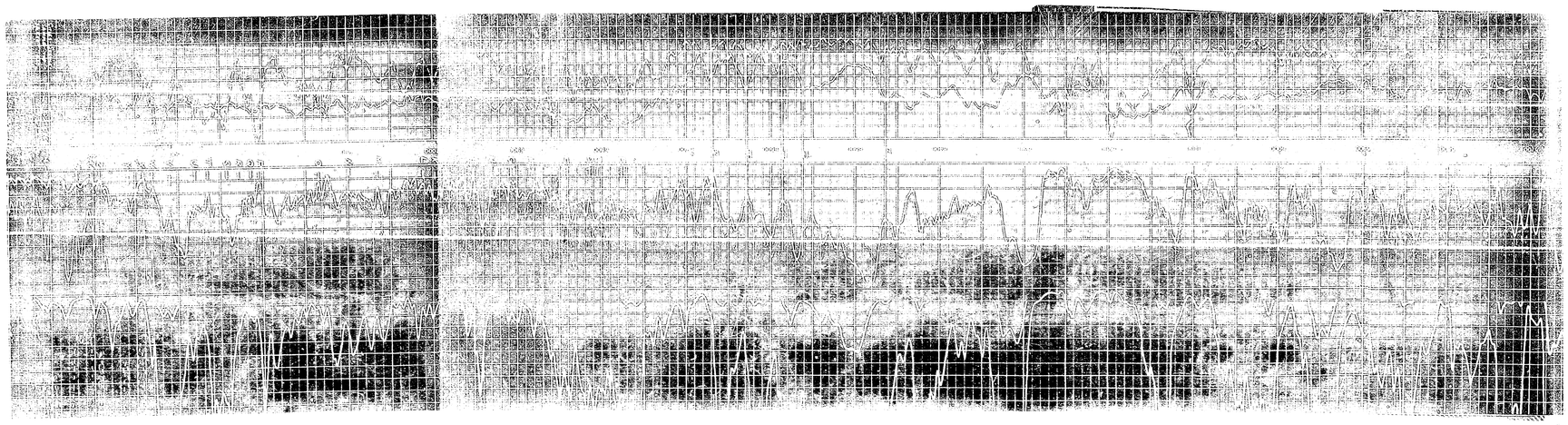

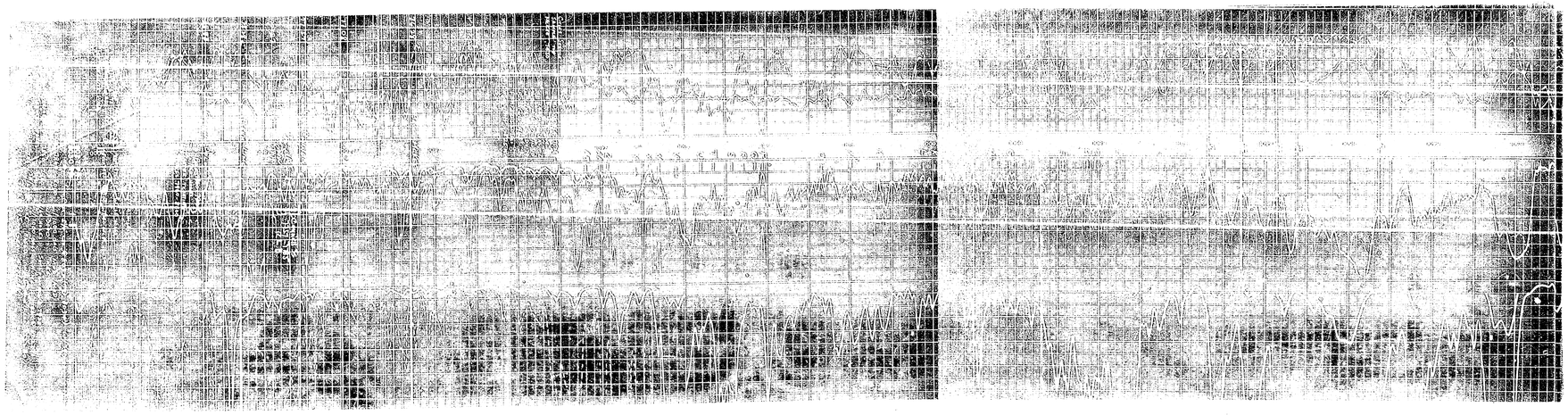

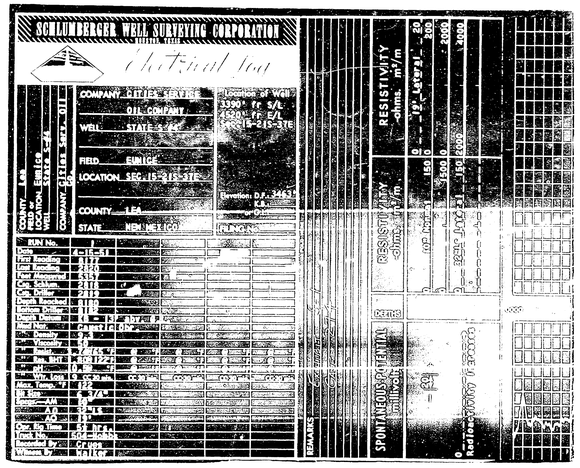
SCHLUMBERGER WELL SURVEYING CORPORATION
Electrical Log
COMPANY
WELL
FIELD
COUNTY LEA
STATE NEW MEXICO
Elevation: D.F.
G.L.
RESISTIVITY
SPONTANEOUS POTENTIAL
REMARKS

377