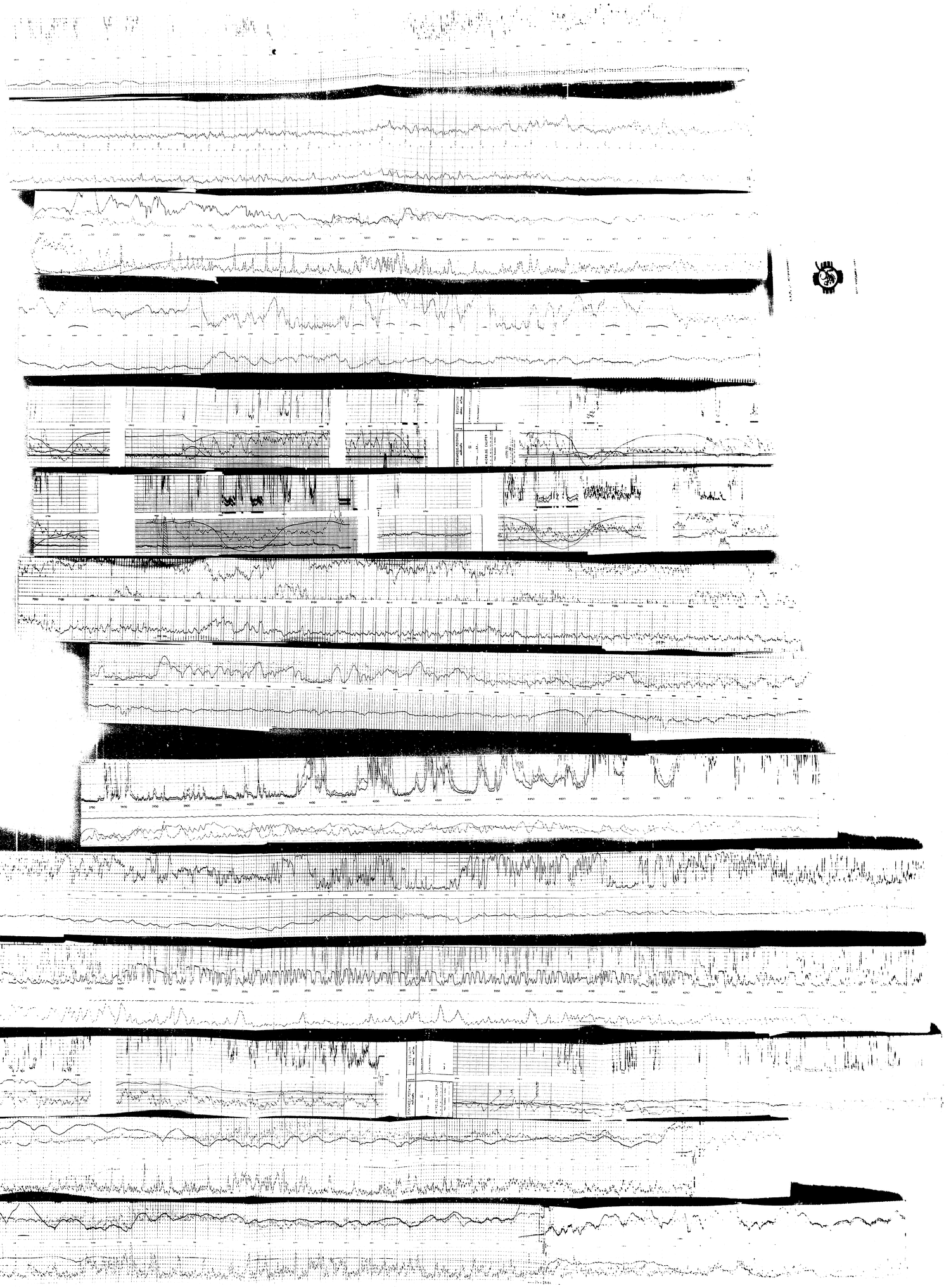
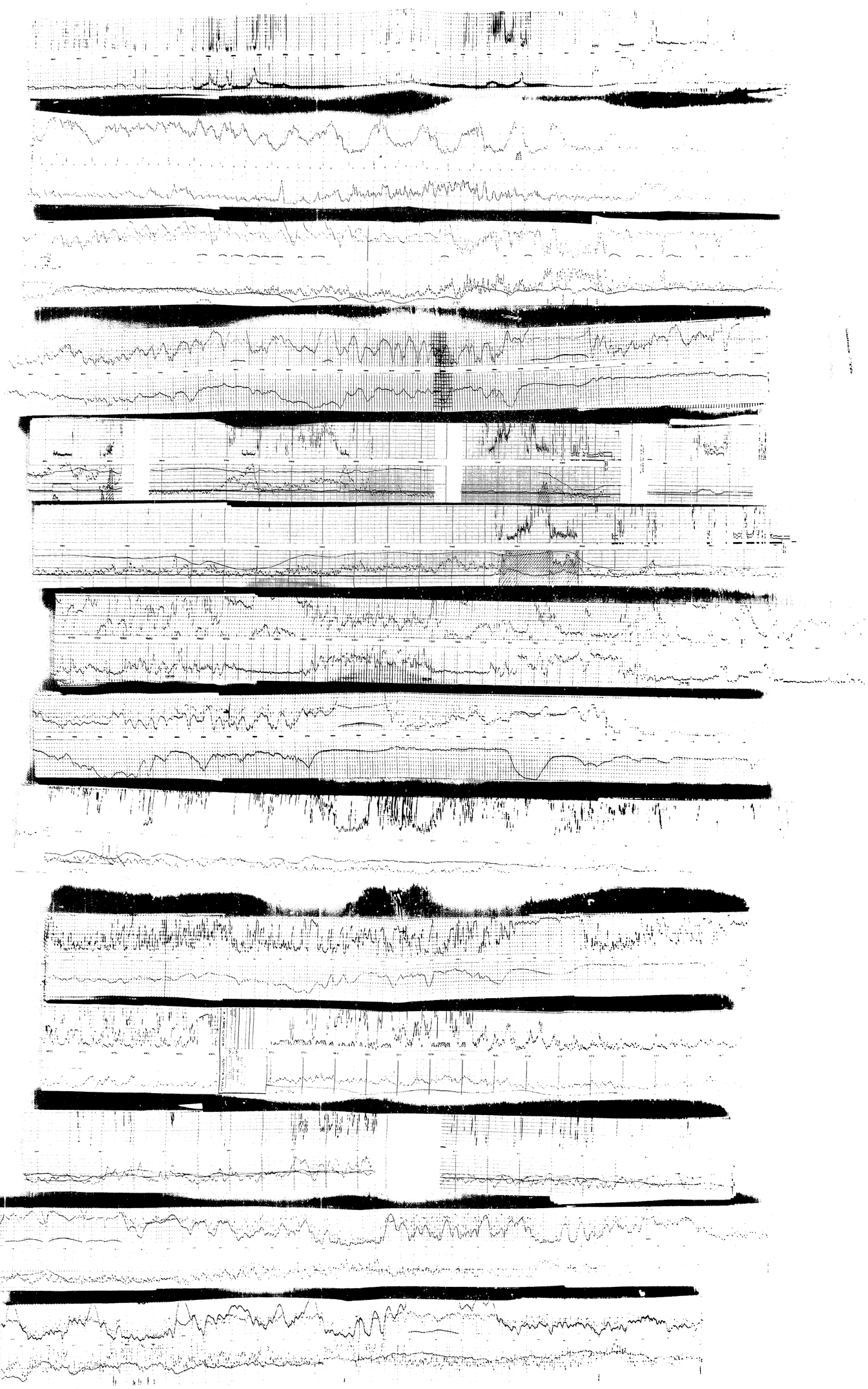
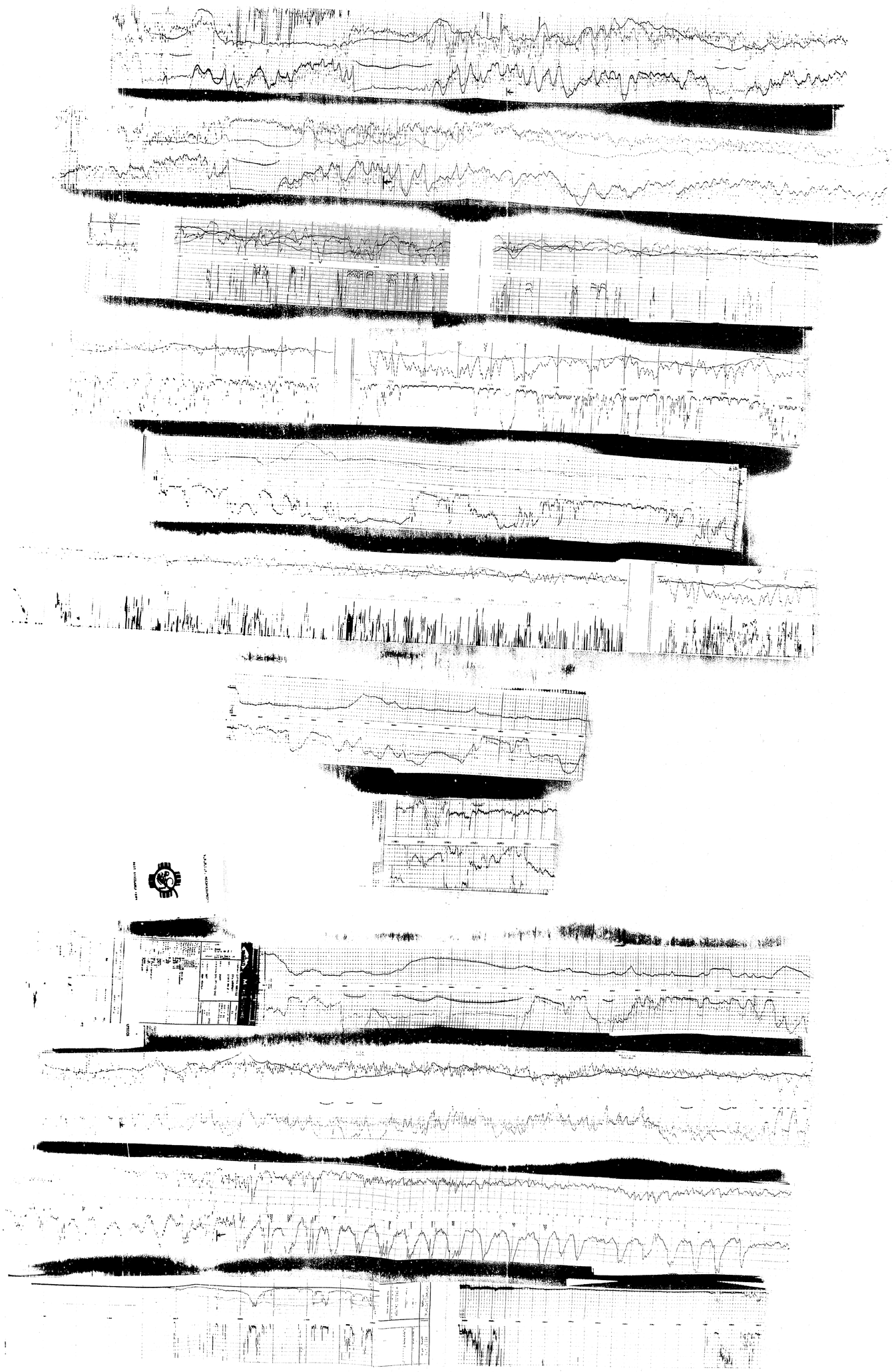
Case NO.

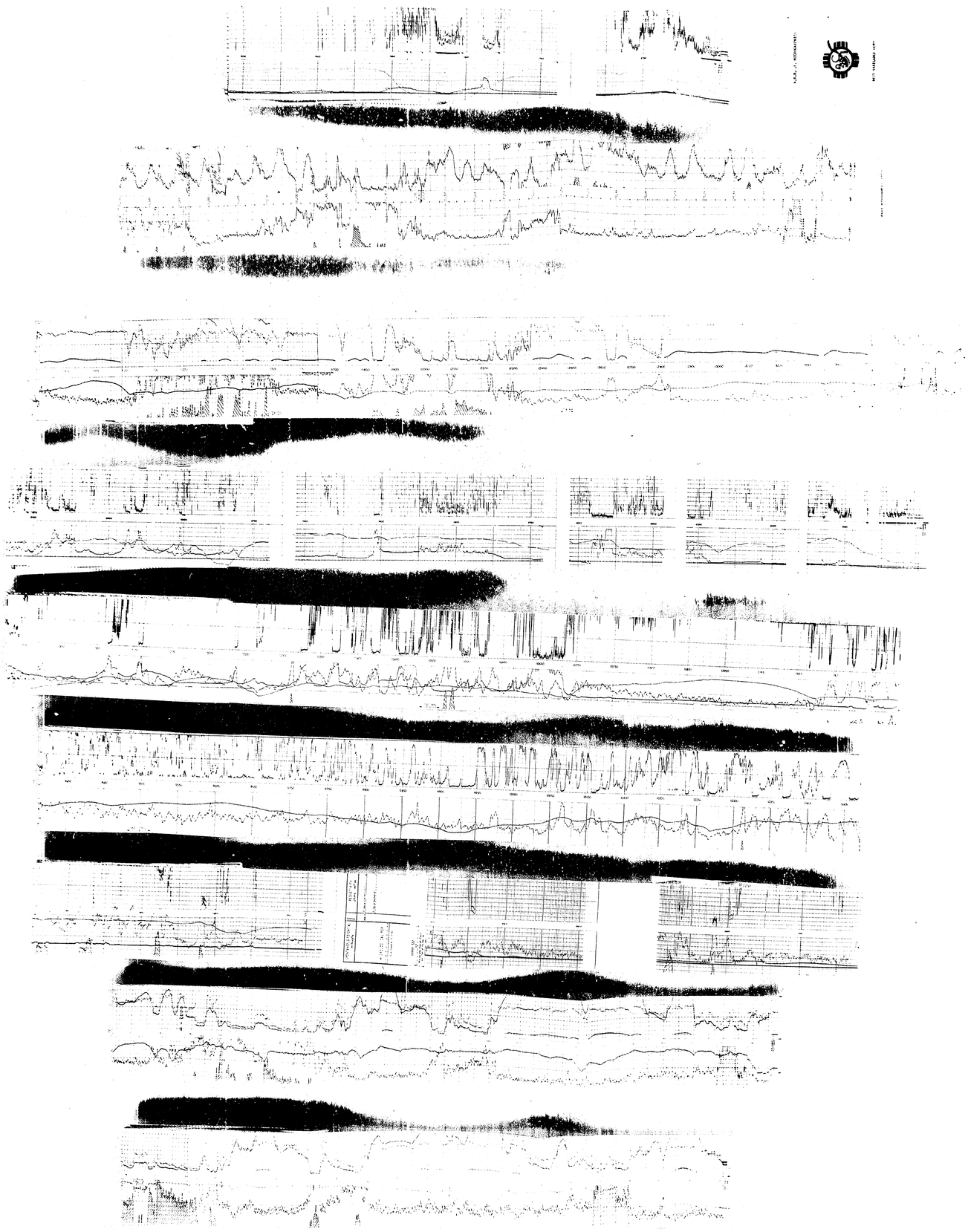
10164+1017

Large Exhibits



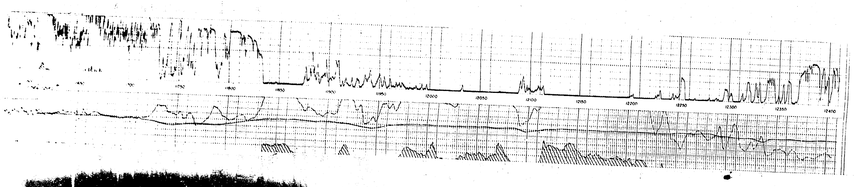


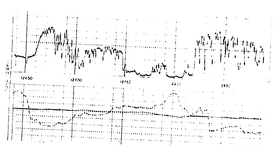


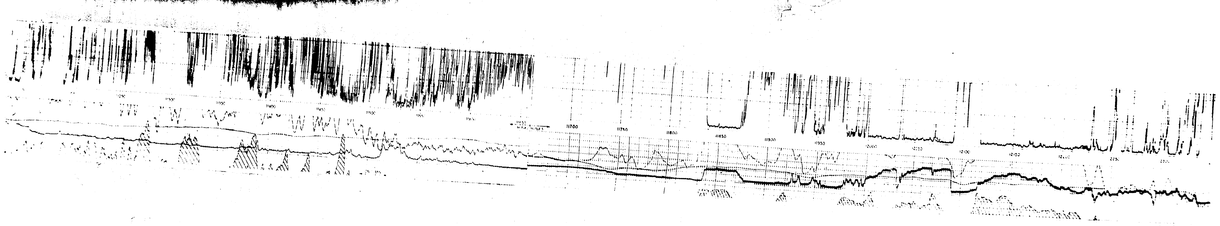


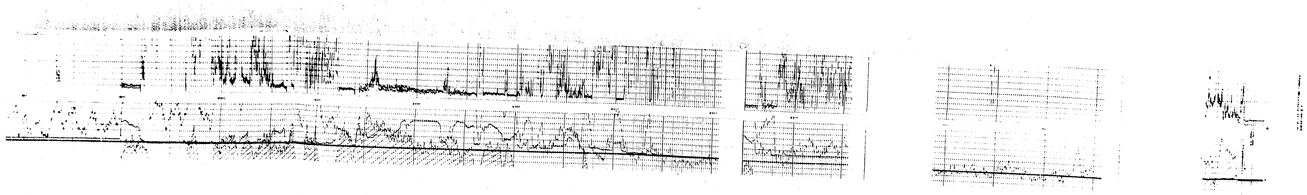
U.S.M.C.F. ICONOMICS

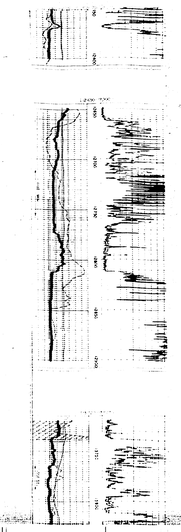
BEST AVAILABLE COPY











SCHLUMBERGER WELL SURVEYING CORPORATION

MICROLOGGING®

COMPANY SINCLAIR OIL AND GAS COMPANY

WELL STATE 758 # 1

FIELD WILDCAT

LOCATION SEC.36-15S-36E

COUNTY LEA

STATE NEW MEXICO

Other Surveys: ES-GRL

Location of Well: 660' f NSL & f WSL Sec. 36-15S-36E

ML

Elevation: D.F. KB 3652 / Gr. or G.L. 3649

FILING No.

RUN No.	1	2
Date	12-7-55	1-13-56
First Reading	11816	13006
Last Reading	9800	11616
Feet Measured	1710	1196
Bottom Driller	11816	13006
Bottom Logger	11816	13005
Depth Corrected	CR	CR
Mud Type	Low Solids	Low Solids
Density	9.6	9.7
Mud Resist.	.54@70°	.47@70°
Res. Mud Cake	.65@70°	.56@70°
pH	10	10
Visc.	38	42
Fluid Loss cc.	6.2	6.2
Rmf @ BHT	.32@170°	.25@170°
Rmf @ Meas. Temp.	.32@70°	.25@70°
Mud Log Run		
Bit Size	8 7/8"	8 7/8"
Casing Type	7"	7"
Casing Depth	11806	11806
Type Fluid in Hole	Low Solids Gel-Chem	Low Solids Gel-Chem
Max. Rec. Temp.	170°	170°
Equip. Location	Andrews	Andrews
Recorded By	Fitz	Fitz
Witnessed By	Alford/Hamilton	Alford/Hamilton

RUN 1 @ 11806' - 11816' - DRILLER
@ 11806' - 11816' - LOGGER
CASING: 7" @ 11806' CEMENTED WITH 3000# & 500SX.

RUN 2 @ 11806' - 13006' - DRILLER
@ 11806' - 13005' - LOGGER
CASING: 7" @ 11806' CEMENTED WITH 3000# & 500SX.

DEPTHS

SPONTANEOUS POTENTIAL millivolts

RESISTIVITY ohms. m²/m

0 Micro Normal 20

0 Micro Inverse 10

MICROLOG CALIPER

Hole Diameter in Inches

Gamma Ray

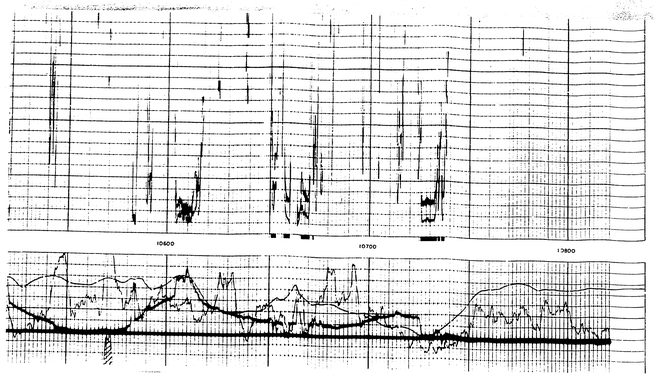
Gamma Ray Scale in API Units

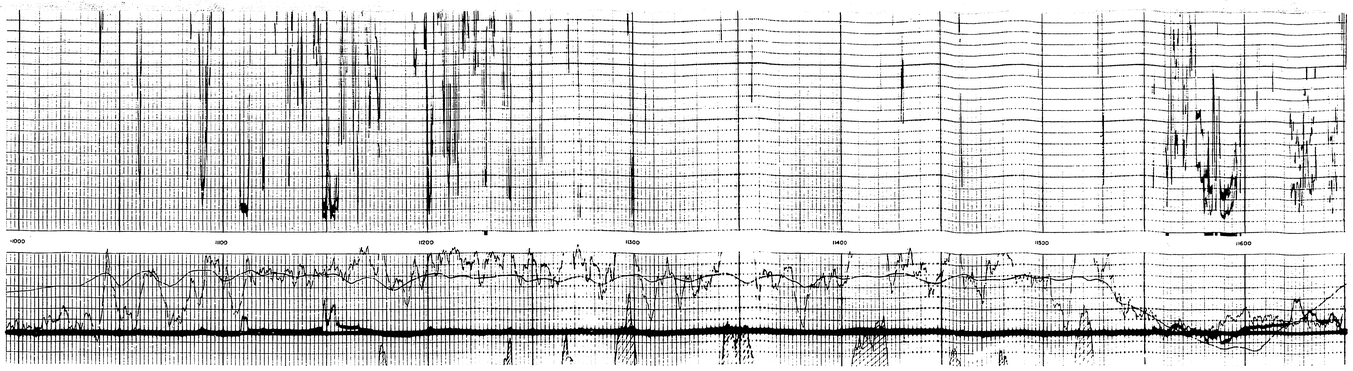
20

10

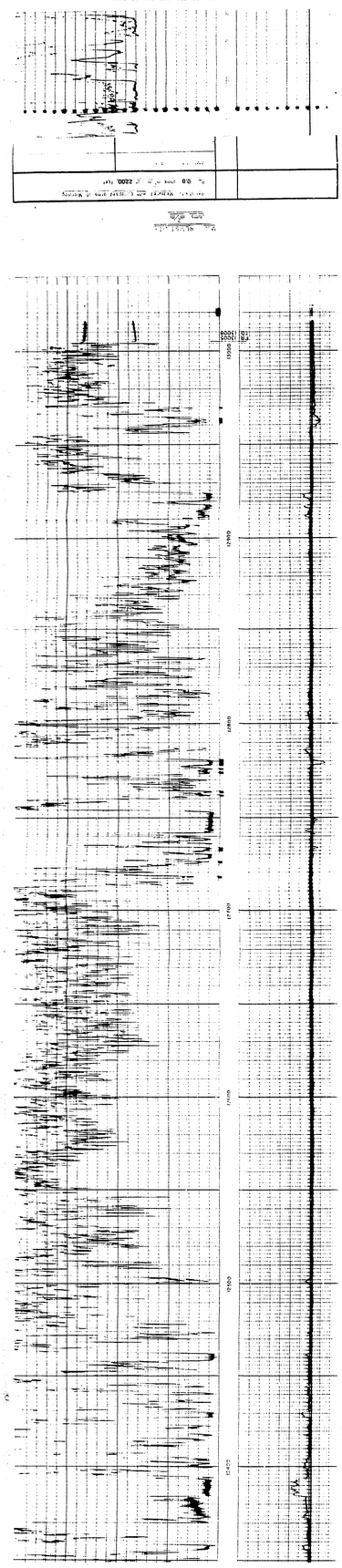
9800

10000


10600
10700
13800


11000
11100
11200
11300
11400
11500
11600

SPONTANEOUS POTENTIAL
millivolts
RESISTIVITY
ohms. m²/m
MICROLOG CALIPER
GAMMA RAY



SINCLAIR OIL AND GAS COMPANY
STATE 15G # 1
H LOCAT
LEA COUNTY, NEW MEXICO

Devonian Single Completion	Devonian - Pennsylvanian Dual Completions
$30,000 (13 3/8")	$30,323
13,350	19,975
10,170	71,148
10,400	8,000
6,930	16,597
10,640	1,852
7,080	16,539
10,016	3,335 (13 3/8")
1,152 (13 3/8")	17,808 (9 5/8")
19,200 (9 5/8")	32,400 (7")
20,955 (5 1/2")	20,030 (2" E.U. & 2" Hydril)
7,931 (2")	
$201,036	$353,659

Cost of Devonian Single	$201,036
Cost of Pennsylvanian Single	273,176
Total Cost of Two Wells	474,212
Cost of Dual Completion	388,659
Difference	$85,553

Cost of Devonian & Pennsylvanian Dual	$353,659
Cost of Devonian Single	$201,036
Cost of Dual Completion	$388,659

BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
Case No. 1219 Exhibit No. 6
Date June 1957

SINCLAIR OIL & GAS COMPANY
PROPOSED FLOWING DUAL COMPLETION
DEAN DEVONIAN AND PENNSYLVANIAN ZONES
LEA COUNTY, NEW MEXICO

BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
Case No. 1219 Exhibit No. 7

8-5/8" OD CASING @ 4300'

2" EUE TUBING

5½" HYDRIL TUBING

RECTOR WELL EQUIPMENT COS

DWG. NO. C-1500 & B-1500 DUAL
TUBING COMPLETION BOTH STRINGS
BAKER TREE: MODIFIED

DRAWN BY	DATE	SUPERSEDES NO.	DRAWING NO.
JWT	5-57		A-850-S

SINCLAIR OIL & GAS COMPANY
PROPOSED PUMPING DUAL COMPLETION
DEAN DEVONIAN AND PENNSYLVANIAN ZONES
LEA COUNTY, NEW MEXICO

BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
Case No. 1219 Exhibit No. 11
Date June 1957

RECTOR WELL EQUIPMENT COS

BAKER OIL TOOLS, INC.
LOS ANGELES HOUSTON
NEW YORK
U.S.A.

ILLUSTRATIVE DRAWINGS
OF SPECIAL
TOOLS AND METHODS

ENG. REPORT NO. 542

TUBING

TUBING

BAKER PARALLEL STRING ANCHOR WITH LATCHING SUB PROD NO. 839

CAST IRON CENTERING LUG 3 AT 120°

CASING

TUBING

BAKER MODEL 'D' RETAINER PRODUCTION PACKER PROD NO. 415-D

BAKER MODEL 'F' ANCHOR TUBING SEAL ASSEMBLY WITH TWO SEAL UNITS PROD NO 88-25

PRODUCTION TUBE PROD NO 45-72

BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
Case No. 1219 Exhibit No. 12
Date June 1957

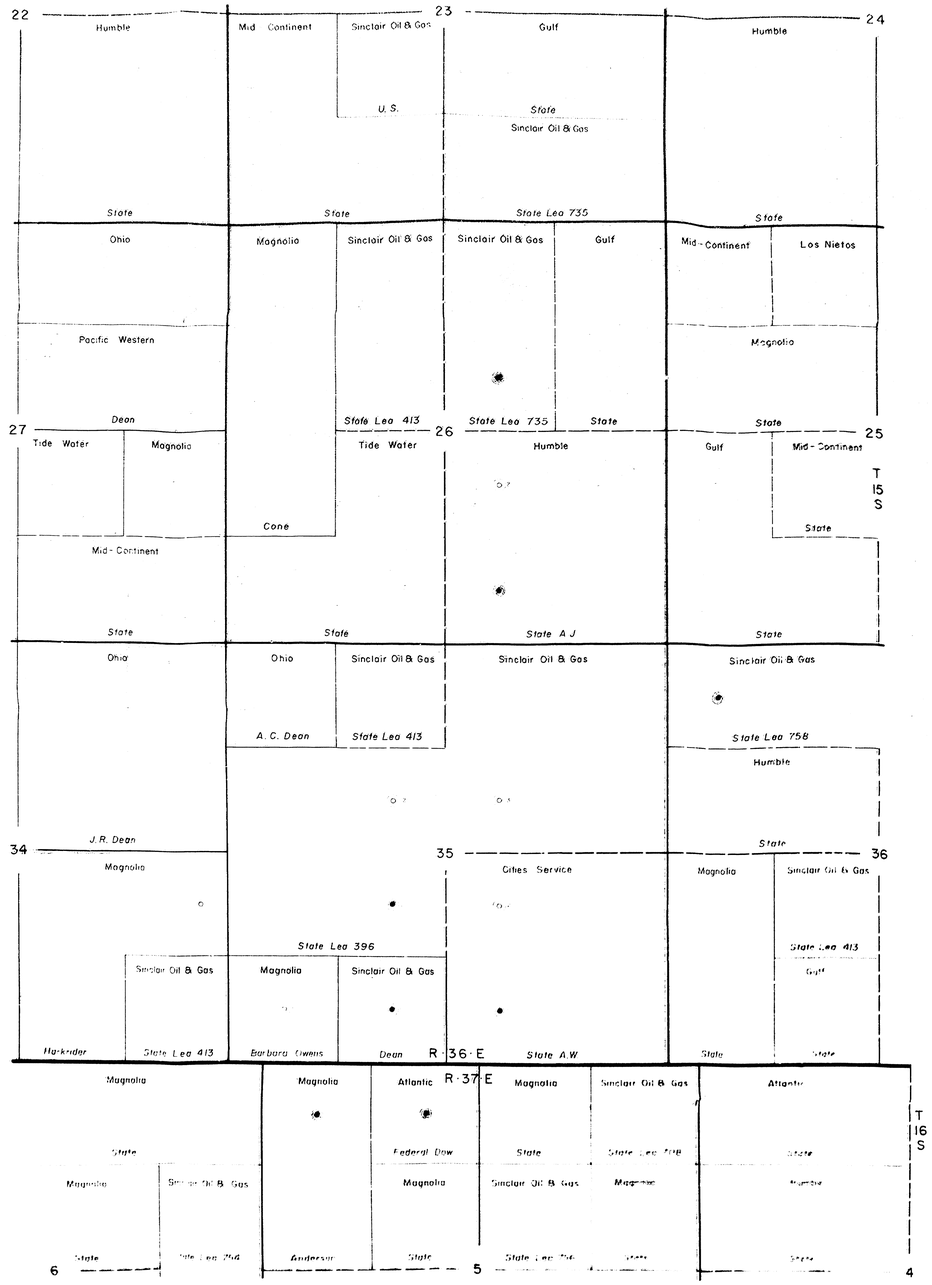
MAKE PARALLEL TUBING INTO ANNULUS

MAKE PACKER SET

MAKE TUBING SEAL

MAKE PRODUCTION TUBE

WESTERN MICROPHOTO



DEAN FIELD
LEA COUNTY, NEW MEXICO
Scale 1" = 500'

Form 7-to16 — Atlantic Federal Dom No. 1

SCHLUMBERGER WELL SURVEYING CORPORATION
HOUSTON, TEXAS

MICRO-LOGGING

COMPANY ATLANTIC REFINING COMPANY
WELL FEDERAL DOM # 1
FIELD DEAN
LOCATION SEC.5-16S-37E
COUNTY LEA
STATE NEW MEXICO

Other Surveys
ES

Location of Well
990' F NL
2310' F WL
Sec.5-16S-37E
1959' F SWL
660' F NL

Elevation DF 3865
KB 3875
or GL 3845

FILING No.

COUNTY LEA
FIELD or AREA DEAN
WELL FEDERAL DOM # 1
COMPANY ATLANTIC REFINING

RUN No.	1					
Date	7-27-56					
First Reading	13759					
Last Reading	10000					
Feet Recovered	3759					
Depth Recorded	13765					
Bottom Driller	13765					
Depth Datum	KB 3875 ABV. GL					
Drill Pipe Size	4 1/2"					
Mud Resist.	1.96 @ 75°F	@ °F	@ °F	@ °F	@ °F	@ °F
Res. Mat	2.75 @ 75°F	@ °F	@ °F	@ °F	@ °F	@ °F
pH	10.5					
Visc. Loss	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Rm @ BHT	1.61					
Rmf @ BHT	2.21					
Mud Log. Eq.	19					
Logd	13765'					
Depth	13761'					
Bit Size	7 7/8"					
Bowlin Type	DRT-5					
Fluid Type	Gel-Chem Water Mud					
Circ. Rig Time	48 Hrs.					
Truck No.	1760-1808					
Recorded By	Hawkins					
Witness	Murfin					

1800 1800 1700 13700

SCHLUMBERGER WELL SURVEYING CORPORATION
HOUSTON, TEXAS

Dual Log

COMPANY ATLANTIC REFINING COMPANY
WELL FEDERAL DOM # 1
FIELD DEAN
LOCATION SEC.5-16S-37E
COUNTY LEA
STATE NEW MEXICO

Location of Well
990' FNL
2310' FWL
Sec.5-16S-37E
660' FNL
1959' FWL
(NL)

Elevation: D.F. 3865
K.B. 3875
or G.L. 3845

FILING No.

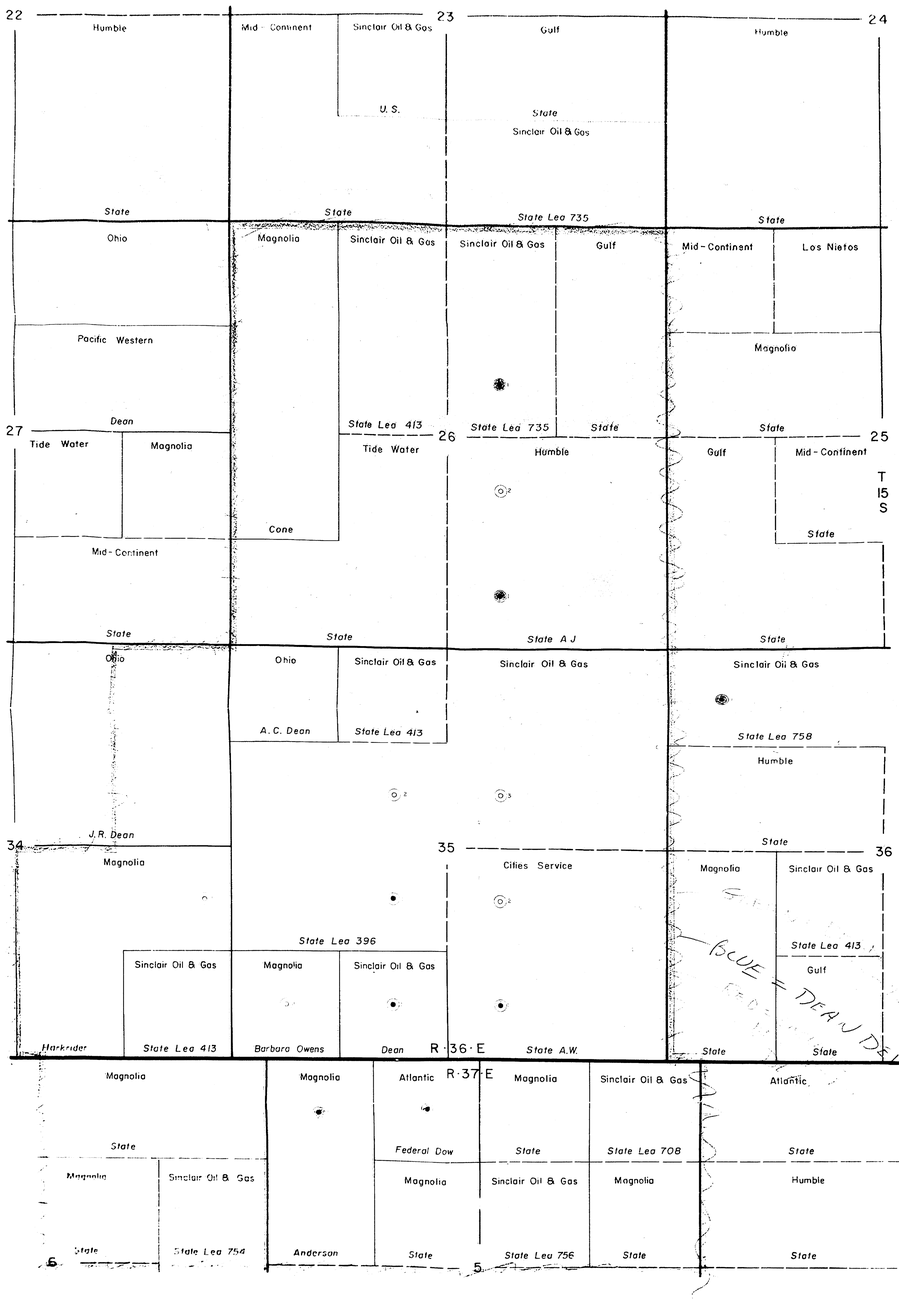
COUNTY LEA
FIELD or AREA DEAN
WELL FEDERAL DOM # 1
COMPANY ATLANTIC REFINING

RUN No.	1					
Date	7-27-56					
First Reading	13759					
Last Reading	4900					
Feet Recovered	8859					
Depth Recorded	13765					
Csg. Driller	4900					
Csg. Logger	4900					
Depth Reached	13765					
Bottom Driller	13765					
Depth Datum	KB 3875 Abv. GL					
Drill Pipe Size	4 1/2"					
Mud Resist.	1.96 @ 75°F	@ °F	@ °F	@ °F	@ °F	@ °F
Res. Mat	2.75 @ 75°F	@ °F	@ °F	@ °F	@ °F	@ °F
pH	10.5					
Visc. Loss	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Rm @ BHT	1.61					
Rmf @ BHT	2.21					
Mud Log. Eq.	19					
Logd	13765'					
Depth	13761'					
Bit Size	7 7/8"					
Bowlin Type	DRT-5					
Fluid Type	Gel-Chem Water Mud					
Circ. Rig Time	48 Hrs.					
Truck No.	1760-1808					
Recorded By	Hawkins					
Witness	Murfin					

1400 1500 1600 1700 1800 13900 1700

W.N.M.C.T. MICROGRAPHICS

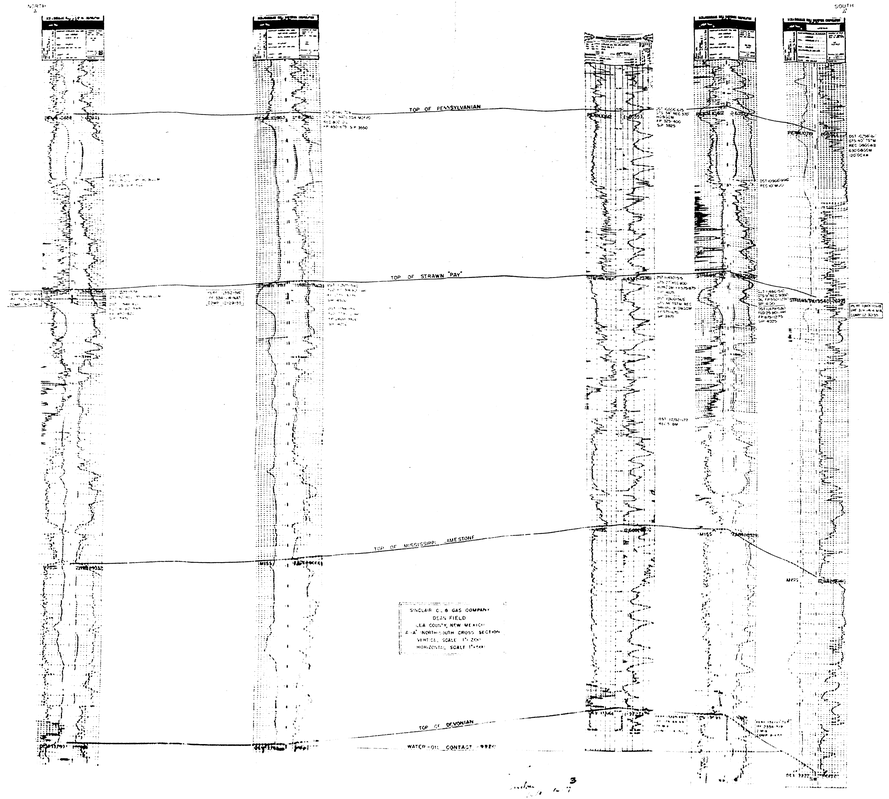
BEST AVAILABLE COPY

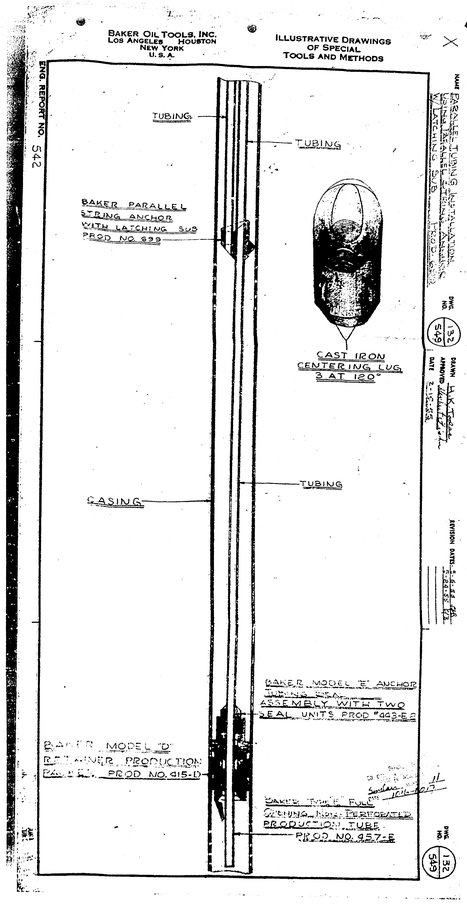


DEAN FIELD
LEA COUNTY, NEW MEXICO
Scale: 1" = 500'

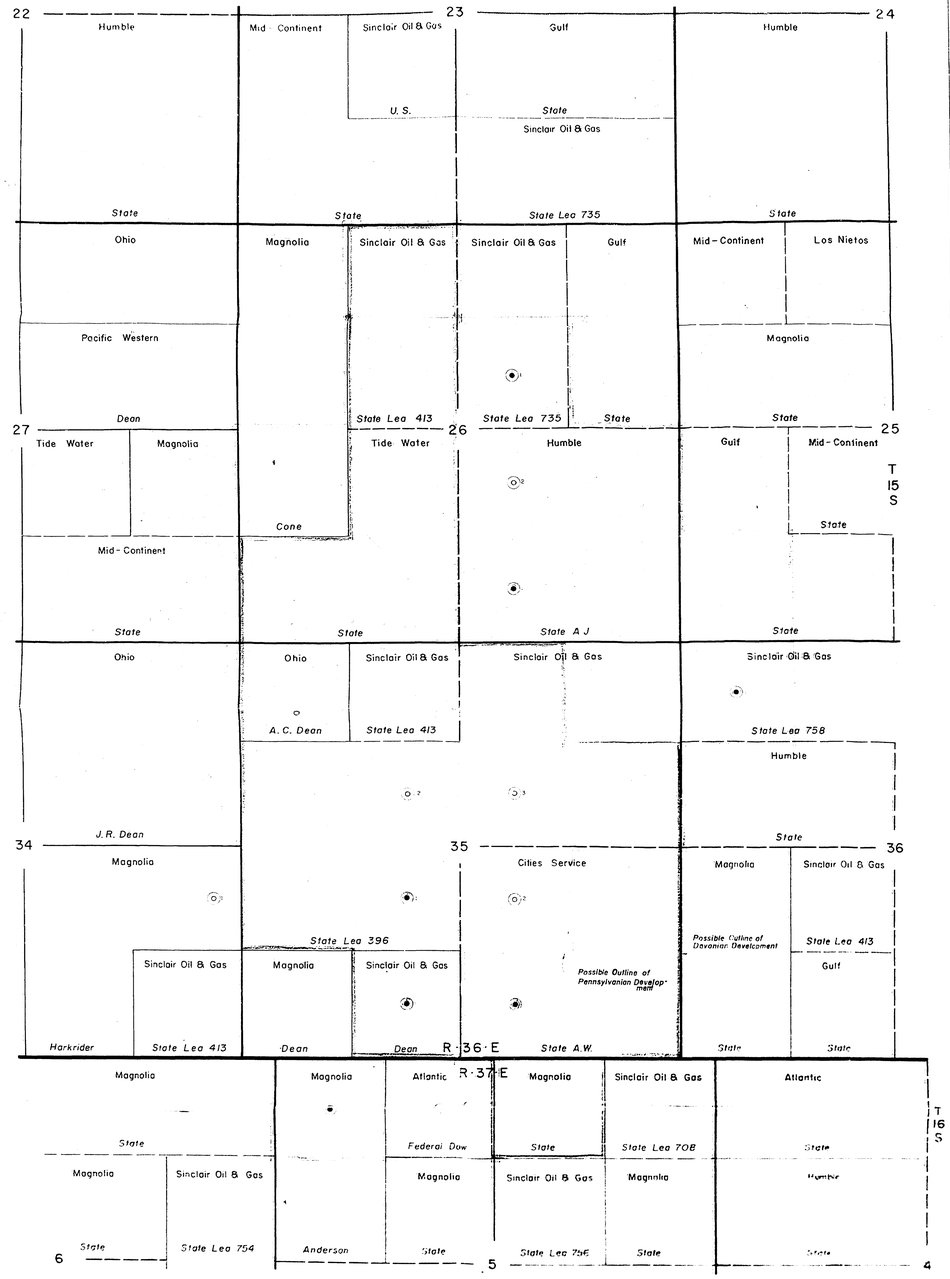
● Pennsylvanian Well
● Devonian Well

W.S.M.C.P. MICROGRAPHICS
BEST AVAILABLE COPY





W.S.M.C.F. MICROGRAPHICS
BEST AVAILABLE COPY



DEAN FIELD
LEA COUNTY, NEW MEXICO
Scale 1" = 500'

SCHLUMBERGER WELL SURVEYING CORPORATION

Electrical Log

COMPANY SINCLAIR OIL & GAS

WELL STATE 758 # 1

FIELD WILDCAT

LOCATION SEC. 36-15S-36E

COUNTY LEA

STATE NEW MEXICO

Location of Well
660' F NW/L
SEC. 36-15S-36E

RS-SRL (ML)

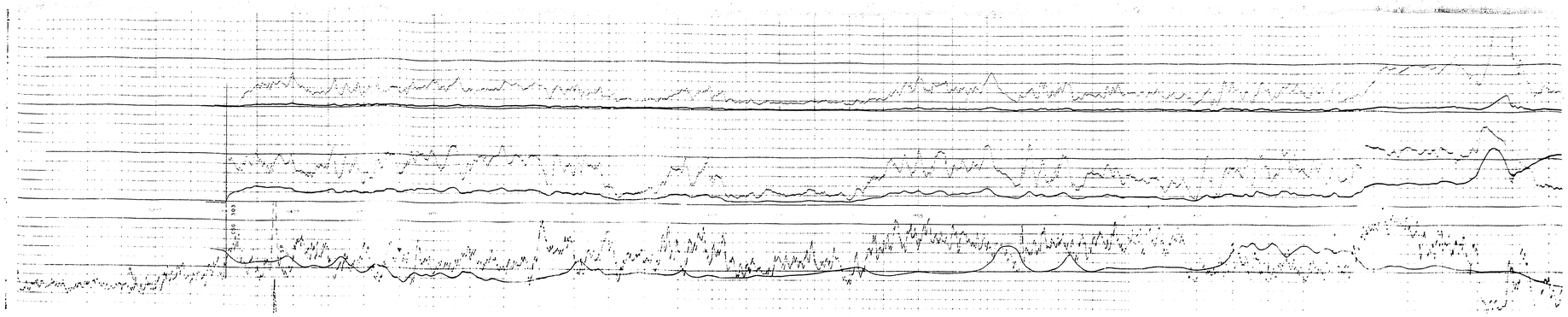
Elevation: DF KB 3968 GL 3957

FILING No.

RUN No.			
Date	10-3-55	10-21-55	11-2-55
First Reading	4998	11810	13806
Last Reading	303	7954	11810
Feet Measured	4695	3954	1996
Csg. Set/Lm.	303	7951	7951
Csg. Driller	305	7951	7951
Depth Reached	4994	11809	13806
Bottom Driller	4995	11809	13806
Depth Datum	GL 13' Below	GL	GL
Mud Mat.	Salt-Starch-Gel		
Density	10.3	9.6	9.6
Viscosity	45	42	42
Resist.	1.05 @ 80	1.10 @ 75	1.10 @ 66
Res. Bht.	.038 @ 110	.040 @ 150	.038 @ 170
pH	9	9	9
Wtr. Loss	10 cc	10 cc	9 cc
Mtx. Temp °F	145	160	176
Br. Size	7 7/8"	7 7/8"	7 7/8"
Spcgr. — Abv.	1.64	1.64	1.64
Adj.	1.64	1.64	1.64
— Adj.	55° LS	55° LS	55° LS
Opr. Rig Time	17	19	19
Truck No.	1702-1606	1959-1605-1793	
Recorded By	Kincaid	Kincaid	Hoff
Witnessed By	Allen-Nelson	Allen-Nelson	Allen-Nelson

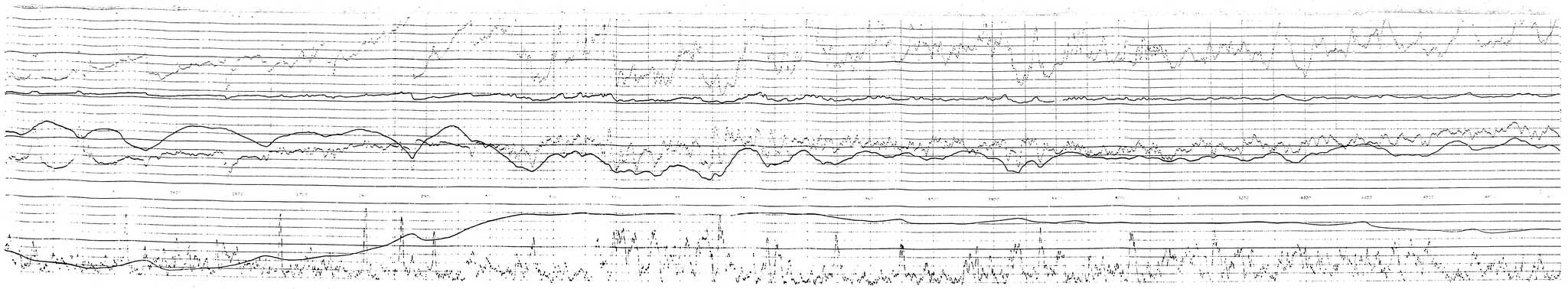
RUN 1 — 303 - 4998 — 4695' @ 3000' & 5000'/Hr.
RUN 2 — 3951 - 11809 — 7858' @ 3000' & 5000'/Hr.
RUN 3 — 7951 - 13806 — 5997' @ 3000' & 5000'/Hr.

REMARKS	RUN	DEPTHS	SPONTANEOUS POTENTIAL millivolts	RESISTIVITY ohms, m²/m 0 — 16" Normal — 18.5	RESISTIVITY ohms, m²/m 0 — 18" Lateral — 360
				0 — 16" Normal — 185	0 — 18" Lateral — 185
				0 — 32" Normal — 185	0 — 32" Lateral — 185



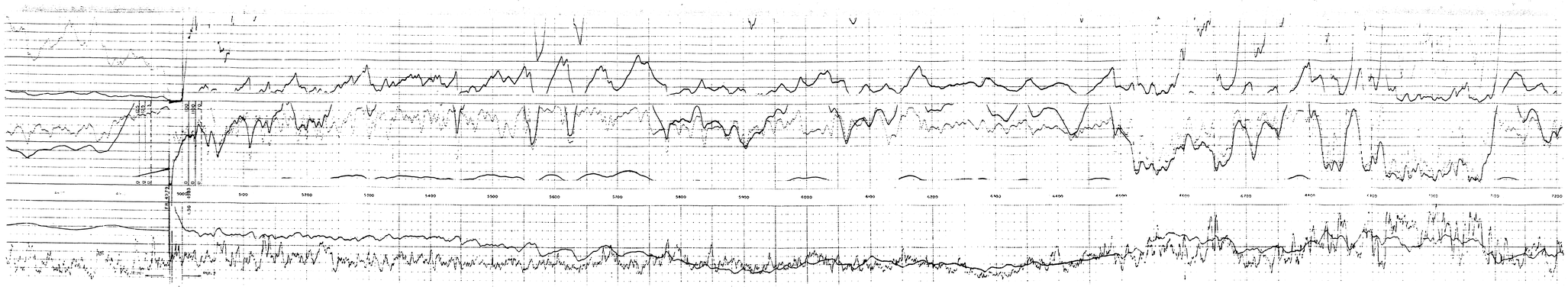
M.I.R.C.E. MICROGRAPHICS

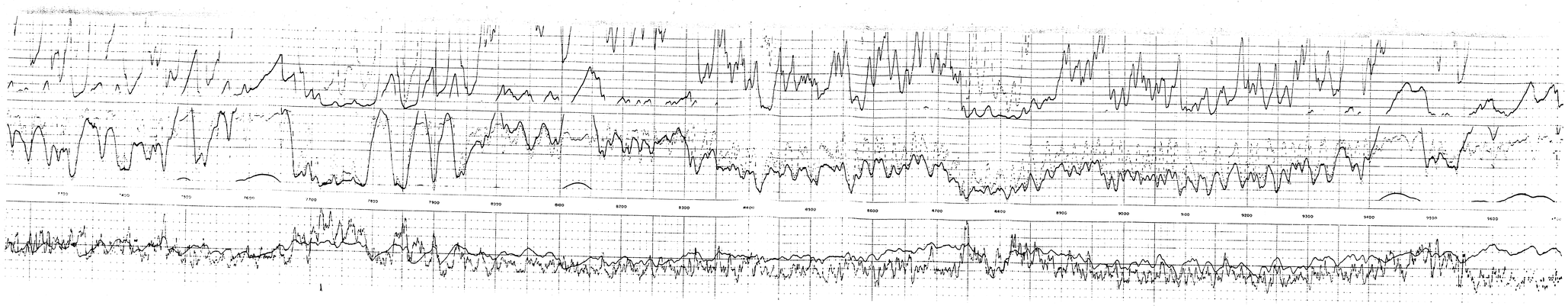
BEST AVAILABLE COPY



W.A.M.C.F. HICROGRAPHICS

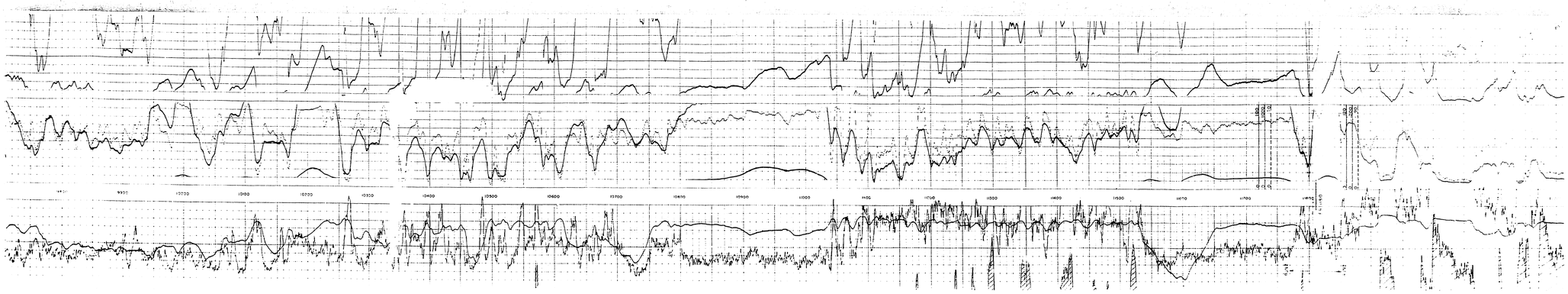
BEST AVAILABLE COPY





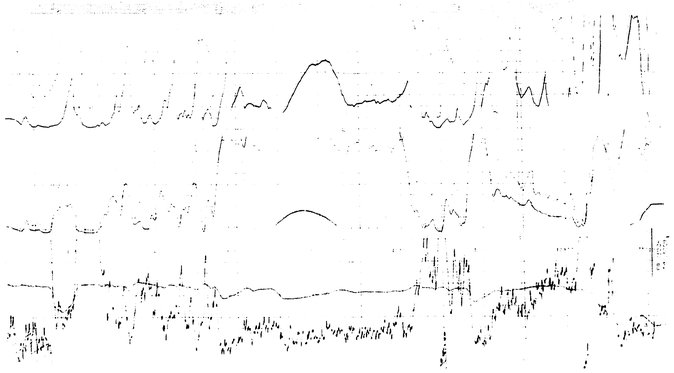
M.I.N.M.C.F. MICROGRAPHICS

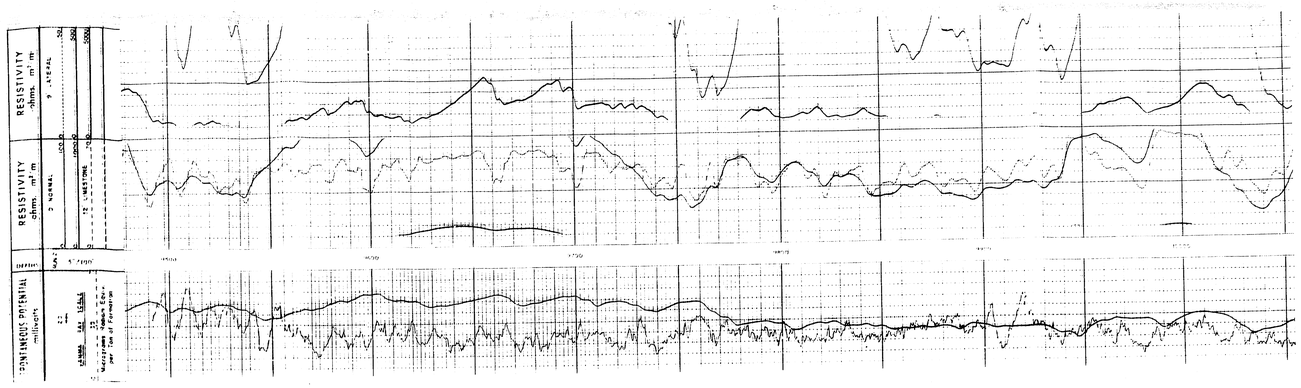
BEST AVAILABLE COPY



W.S.H.C.F. MICROGRAPHICS

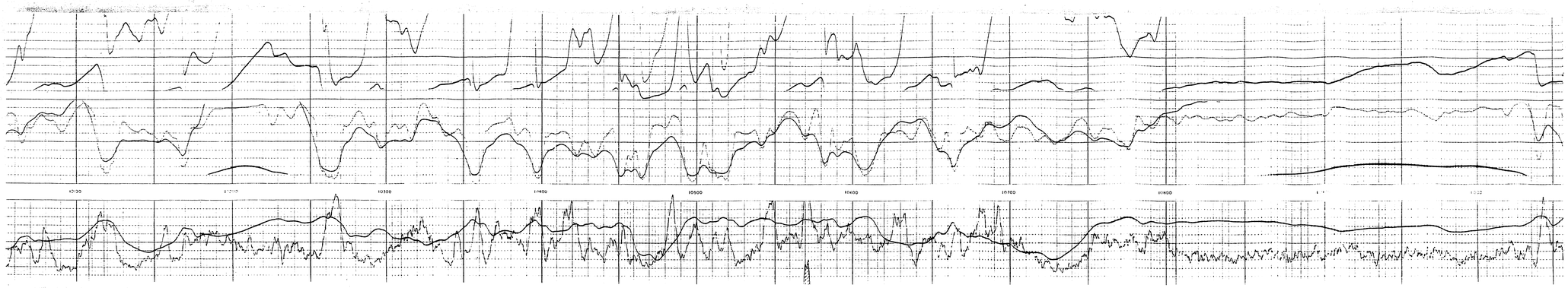
BEST AVAILABLE COPY





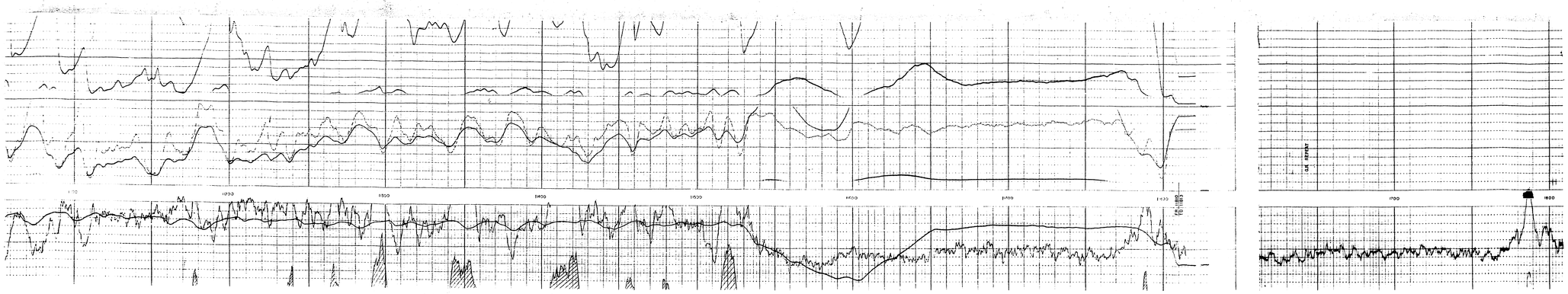
M.N.R.N.F. RADIOGRAPHICS

RMS AVAILABLE 1977



N.S.M.C.F. MICROGRAPHICS

BEST AVAILABLE COPY

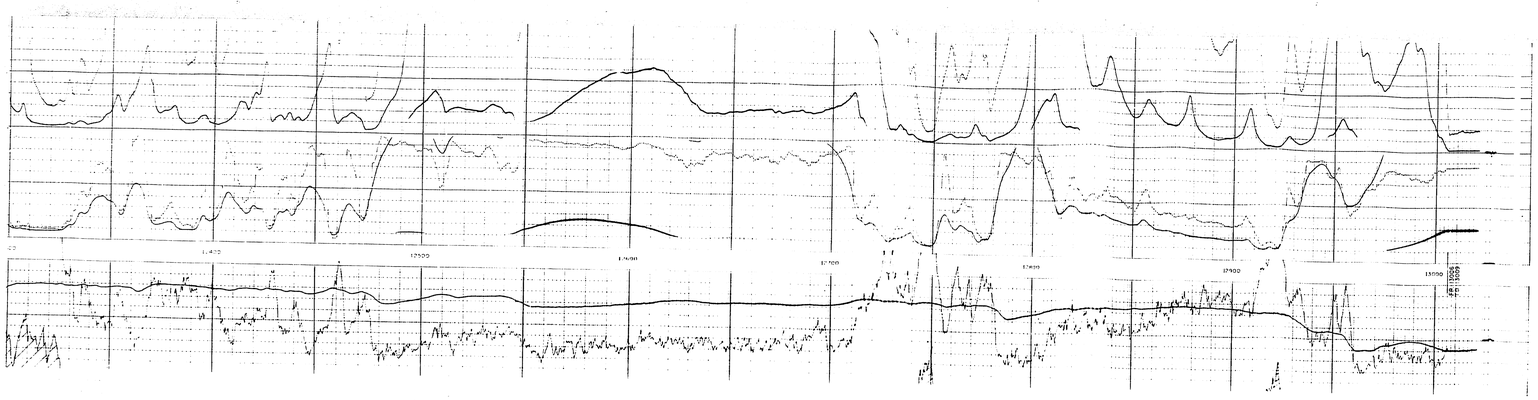


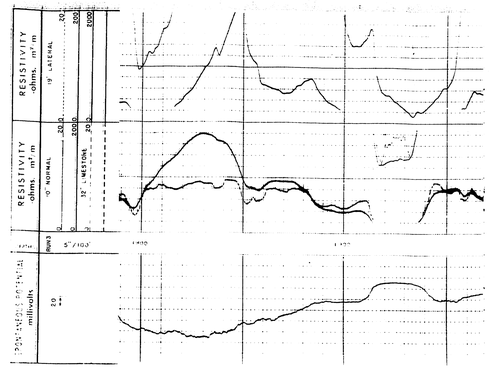
M.S.H.C.P. MICROGRAPHICS

BEST AVAILABLE COPY

U.S.N.C.F. PHOTOGRAPHIC

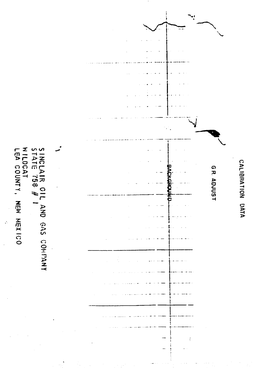
BEST AVAILABLE COPY

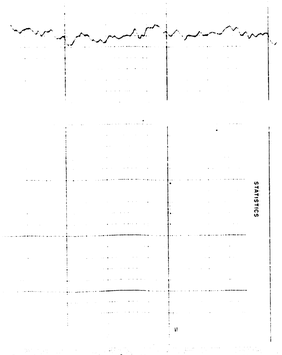


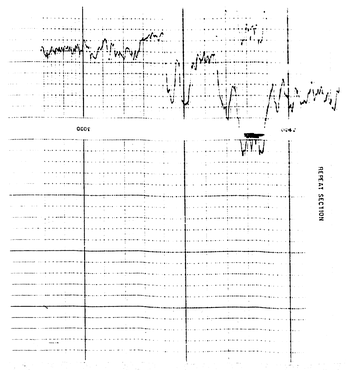


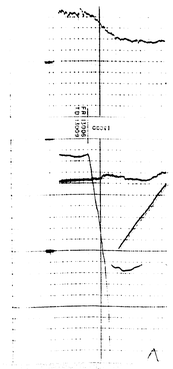
WESTERN GEOGRAPHICS

12400
12500
12600
12700


SINCLAIR OIL AND GAS COMPANY
STATE 29 B 1
WILDCAT
LEA COUNTY, NEW MEXICO
CALIBRATION DATA
GR ADJUST
BACKGROUND


STATISTICS


3000
RECAST SECTION


3000
3100