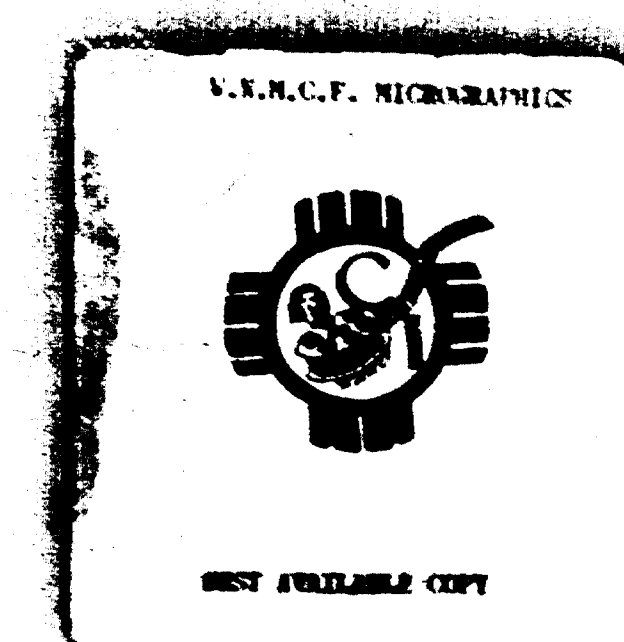


Case No.
3662

Large Exhibits



U.S. GEOLOGICAL SURVEY
 S.O. DRAKE 25
 DEPT. NEW YORK STATE



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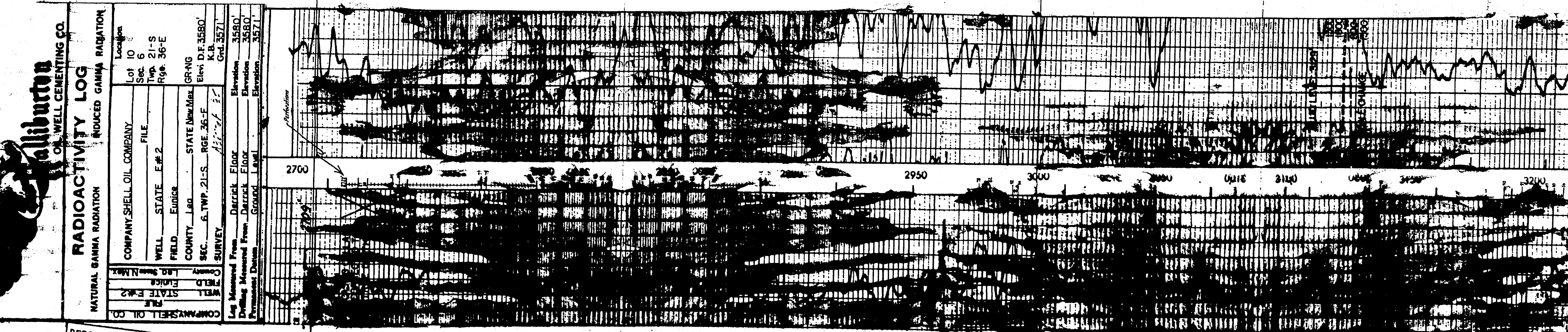
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REEL NUMBER *21*

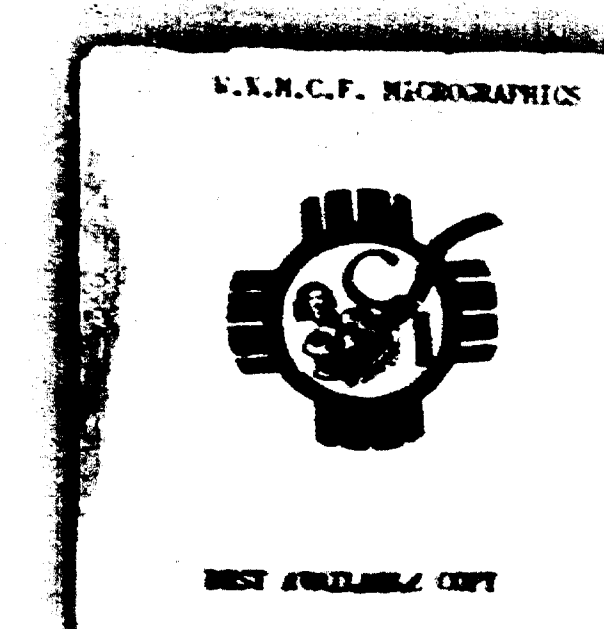
FRAME NUMBER *119*

DATE *12-16-37*

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 EXHIBIT NO. *4*
 CASE NO. *3662*

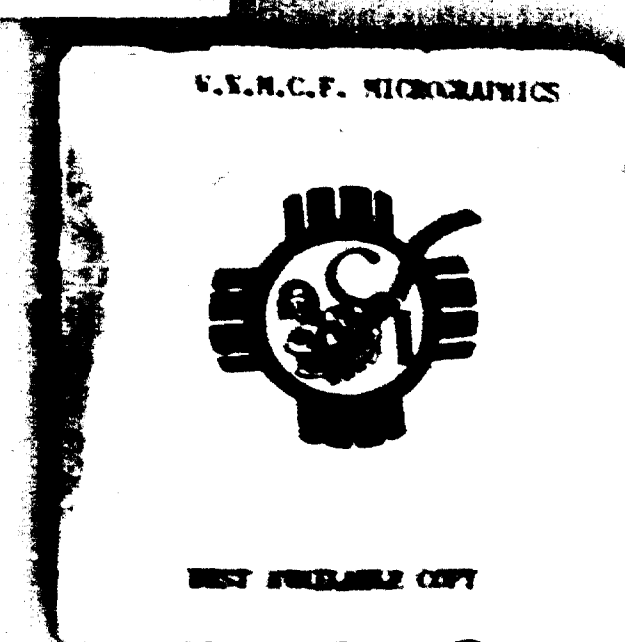
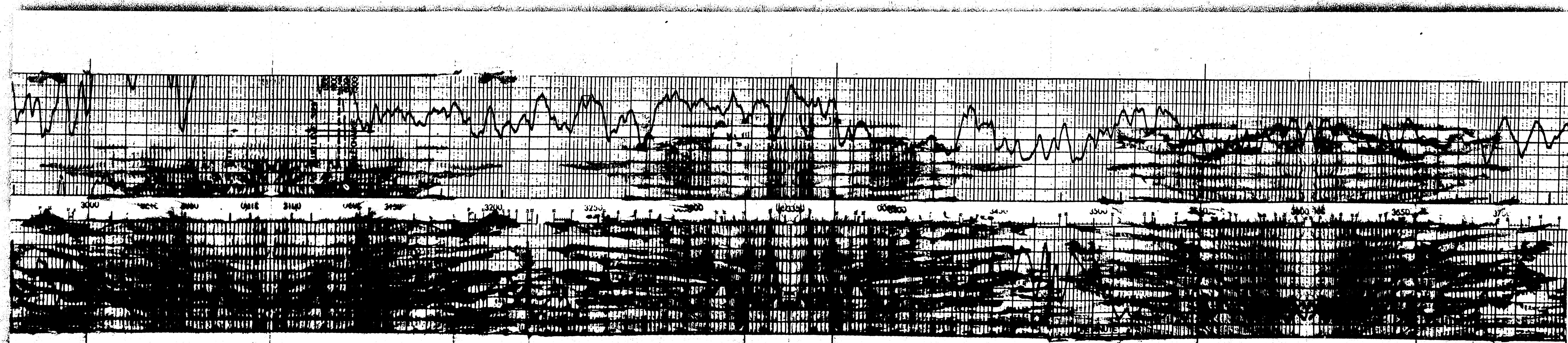


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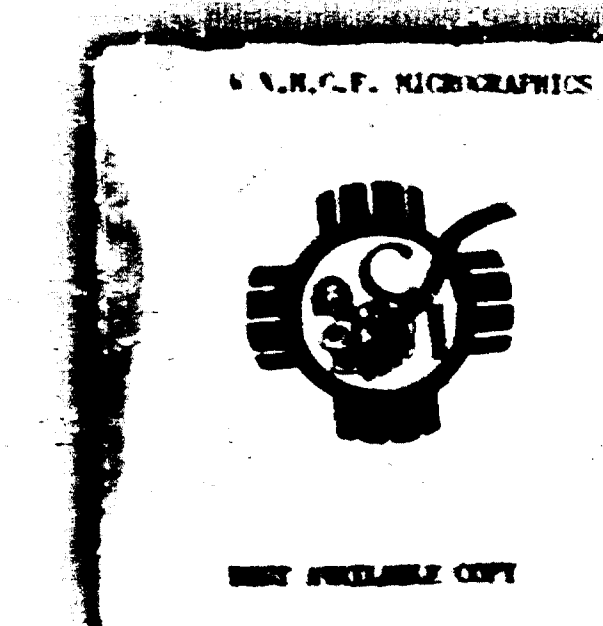
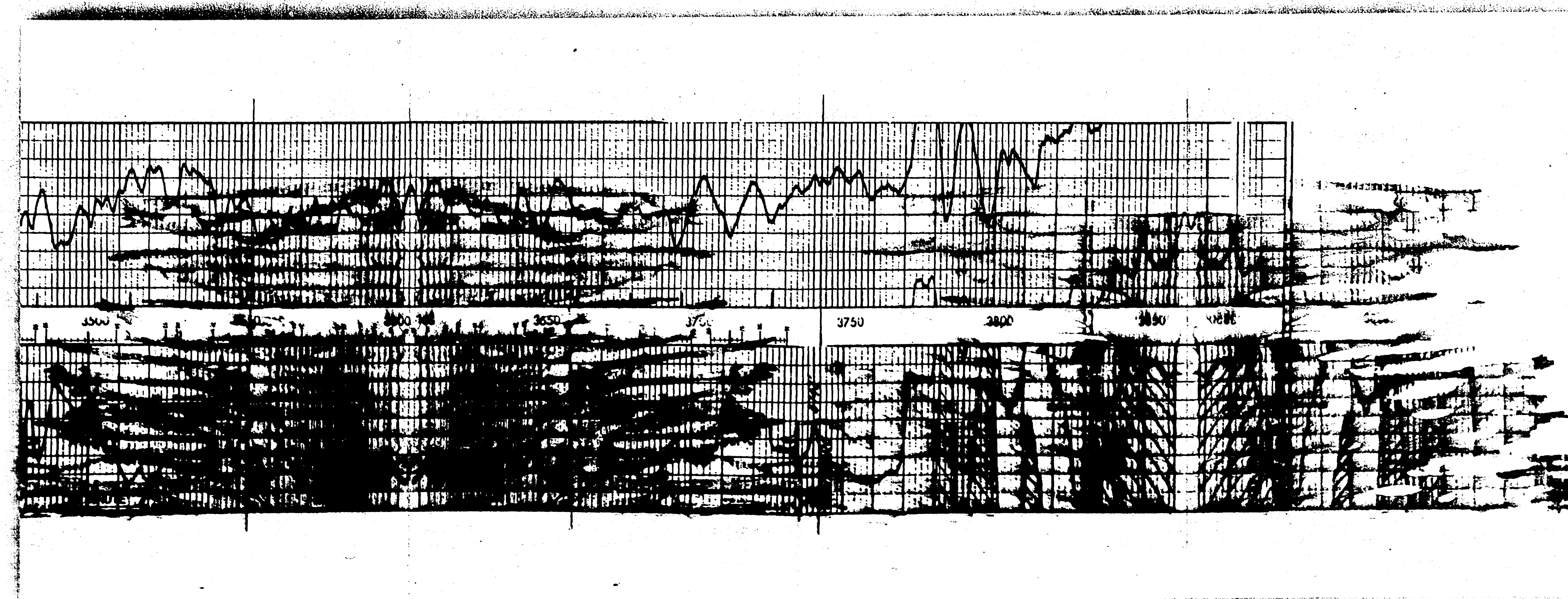
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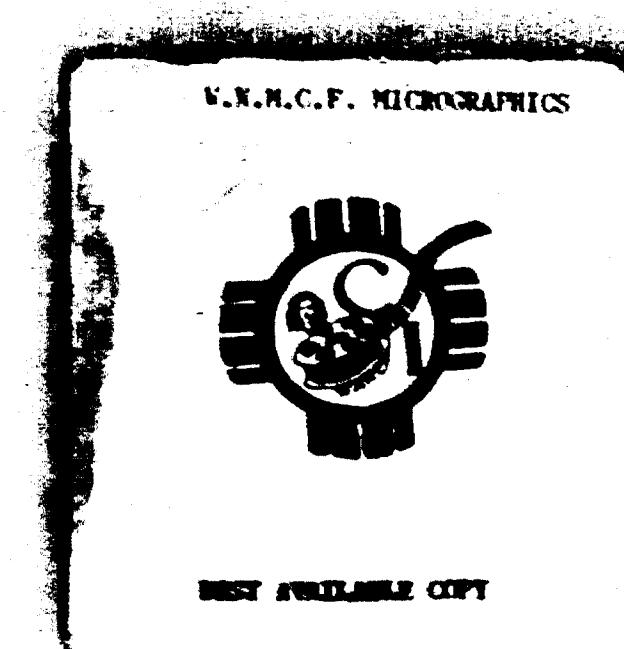
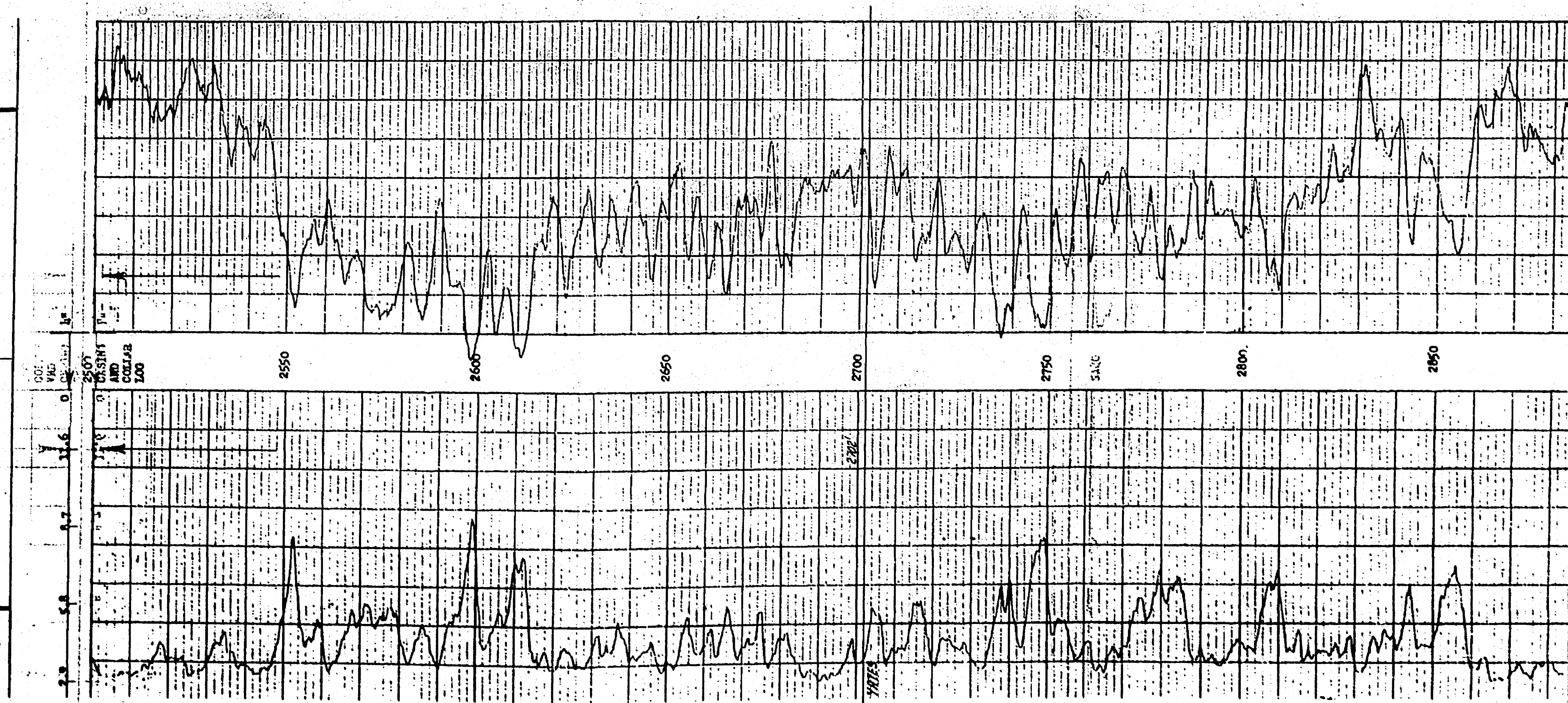
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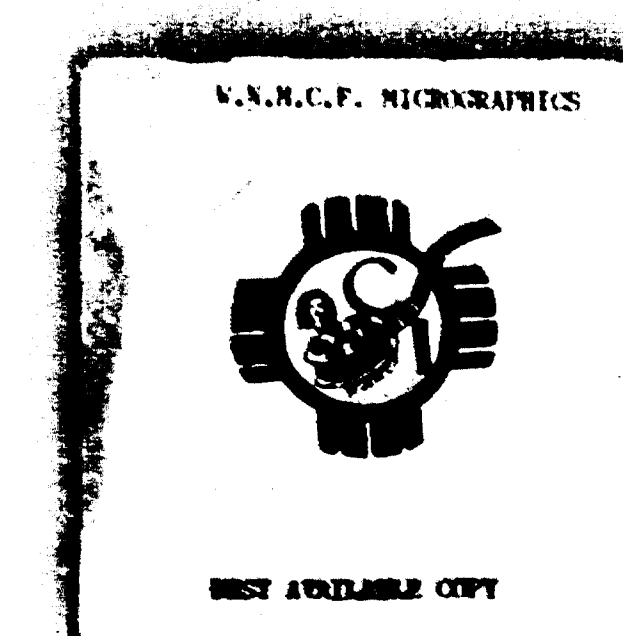
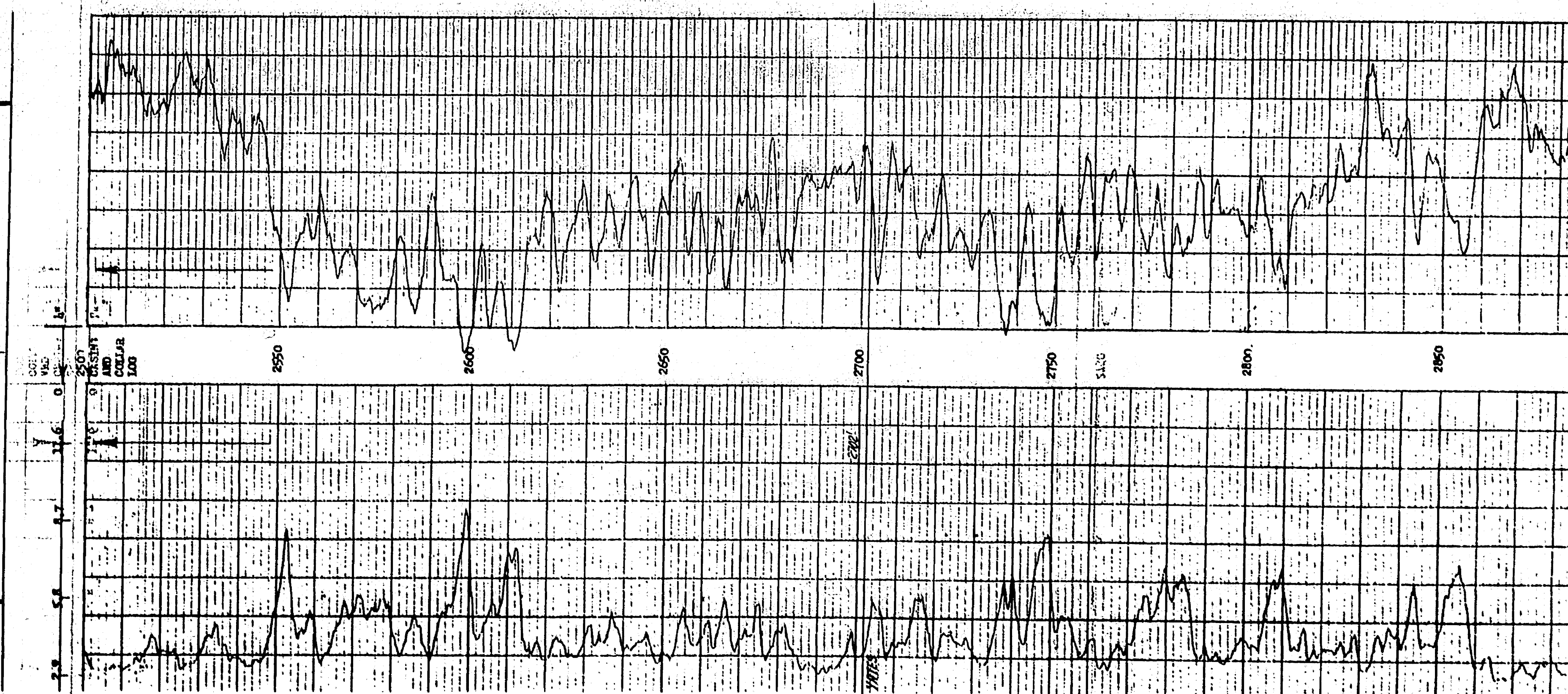
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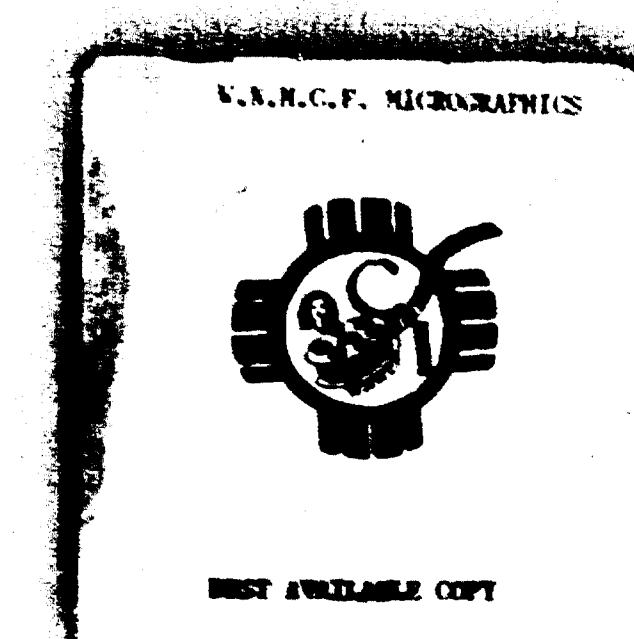
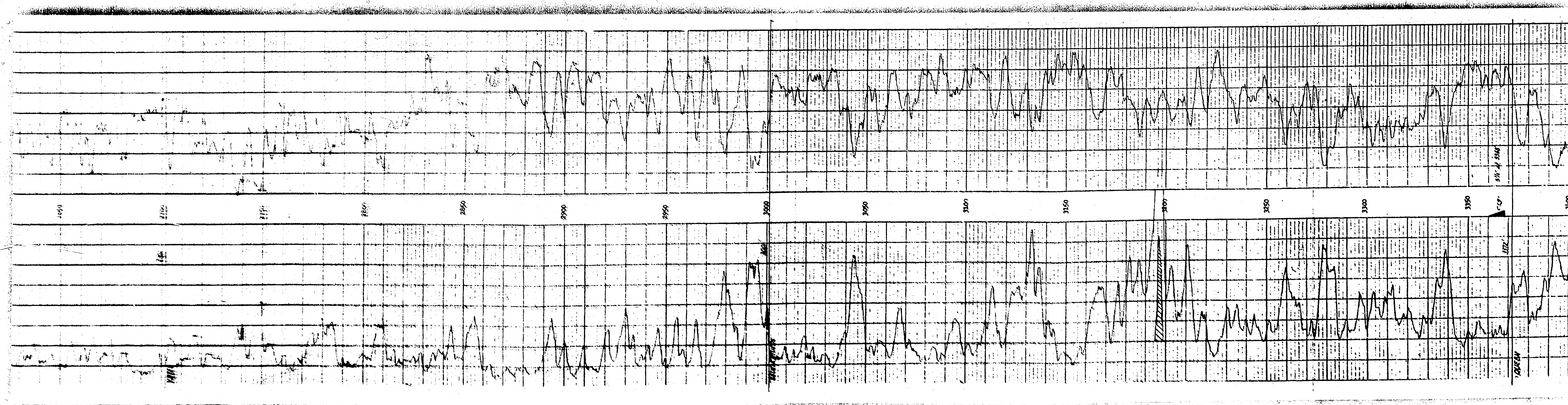
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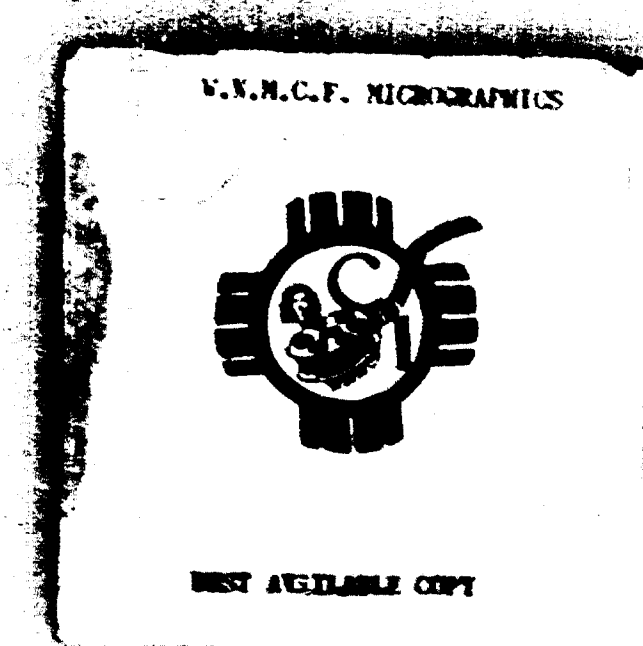
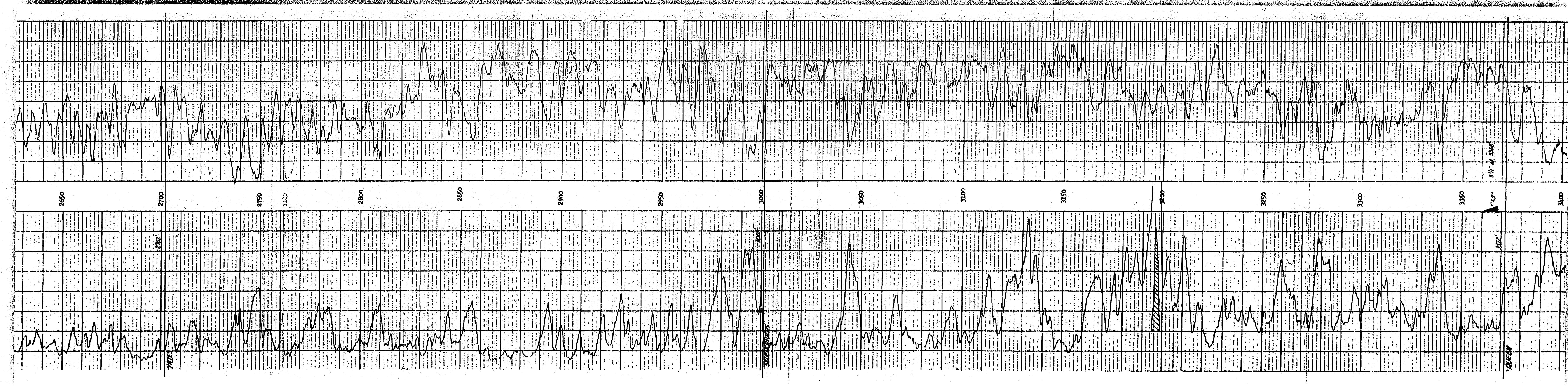


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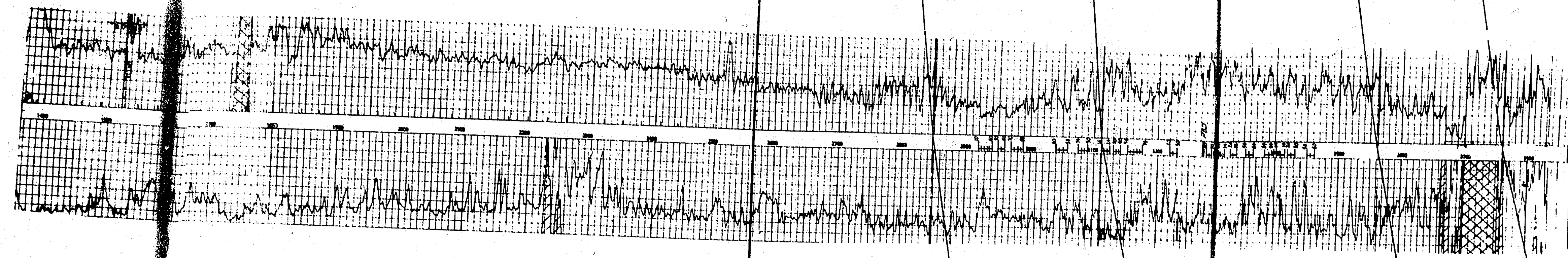


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SHELL OIL CO.
4- STATE "N"
1960' FNL & 660' FEL
SEC. 1, T-21-S, R-33-E



TOP YATES SANDSTONE

STINOTOC SERAIB RIVERS

QUEEN SANDSTONE

TOP PENROSE MEMBER OF QUEEN SANDSTONE

P.D. 4209
P.B. 25, 3646.

Tense through casing perforations:
M4. (Traces ss.) 3338'-3770'
3440'-3500' (thin) 3540'-3600'
3640'-3720' 3750'-3800' 3800'-
3840'. The above part. G. 4. 257 MCFGD
M4. (Quartz ss.) 3860'-3905', 3915'-3970'
F. 1715 BP + 33 B in 4 hrs.
M4. (Quartz ss.) 4035'-4080'
F.P. 121 BPW in 4 hrs.
F.P. C. O. F. H. 000 MCFGPD + 63 BOPD
M4. (Traces ss.) Seven Rivers dol.,
3358'-3800' (lumpy)
3800'-4080' (thin)
Accumulative production to 1-1-67;
Total gas produced 14,340,000 cu ft.
OIL: 400 bbls.

Gas volume from these perfs. was too small to measure.

Pf. (Seven Rivers dol.) 3154'-3174', 3220'-3230', 3450'-3460',
3470'-3480' MCFGPD
PACLO 21,000 MCFGPD
PACLO 21,000 MCFGPD
Pf. (Vista dol. - Seven Rivers dol.)
2920'-3210' (ump)
Accumulative production to 1-1-67:
Gas: 2,772,047 MCF
Oil: 11,111 bbl.

LIVE OF SECTION

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DEPARTMENT OF BIOLOGY, SIMON

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DOCUMENT NUMBER #3662

REF. NUMBER: 21

DATE 12-16-87

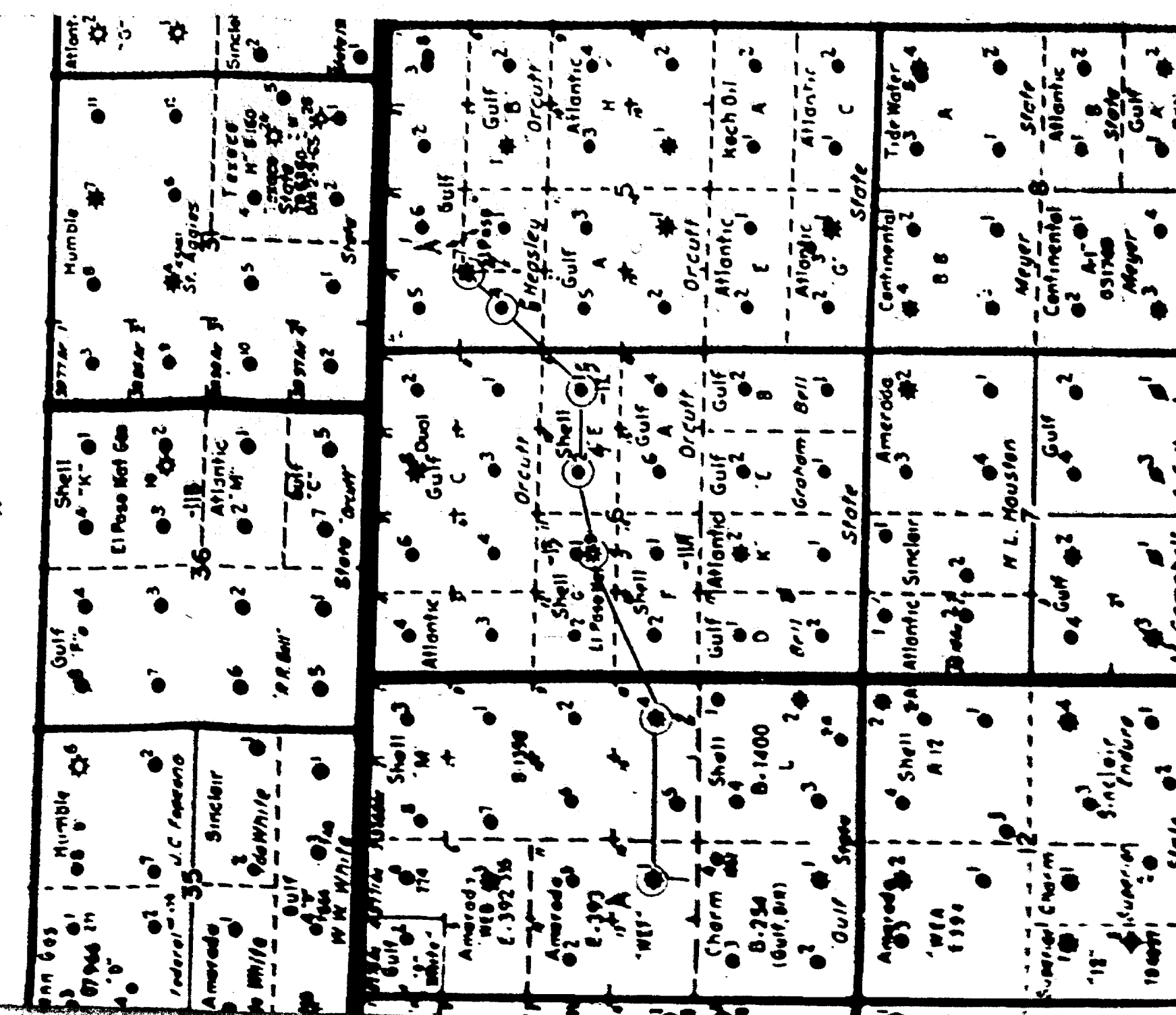
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V.V.N.C.F. MICROBAMIC

BEST AVAILABLE COPY

SHELL OIL CO.
#1-STATE-EN
3150' FNL & 660' FEL
SEC. 6, T-21-S, R-36-E



THE OF CERTAIN

T. D. 3527*
 OST 41 3644*-2800* (Yates ss.)
 Open 1 hr. 35 min. G.T.S. in
 S.I.P. 12159/30 min. I.F.P. 839,
 S.I.P. 10240/30 min.
 OST 72 2854*-3021* (Yates ss. - Seven
 Open 1 hr. 35 min. G.T.S. in
 S.I.T. M. Rec. 340' GCM
 I.F.P. 2254' F.F.P. 2255',
 S.I.P. 12159/30 min.
 OST 83 1394*-1530* (Queen ss.)
 Open 1 hr. 35 min. G.T.S. in
 3 1/2 min. F.P. 2, 459 MCGFSD
 S.I.P. 12159/30 min. F.P. 2904,
 S.I.P. 10240/30 min.
 I. P. C.A.O.F. 20, 000 MCGFSD
 Open hole (Queen ss.) 1348'-1527*
 Accumulative predominate to 1-1-67:
 Gas 993, 634 MCF

T.D. 3870'
I.P.F. 1020 BOPD
Open hole (Grayburg dol.) 3780' - 3870'
Accumulative production to 1-1-67:
Oil: 261,185 bbls.
Temporarily abandoned

T.D. 3878'
I.P.F. 336 BOPD
Open hole (Grayburg dol.) 3765'-3878'.
Accumulative production to 1-1-67:
Oil: 377.074 bbls.



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 DOCUMENT NUMBER #3662
 FEEL NUMBER 21
 FRAME NUMBER 119-120-121-127-128
 DATE 12-16-37
 SIGNED AND BY Lydia Blea



5

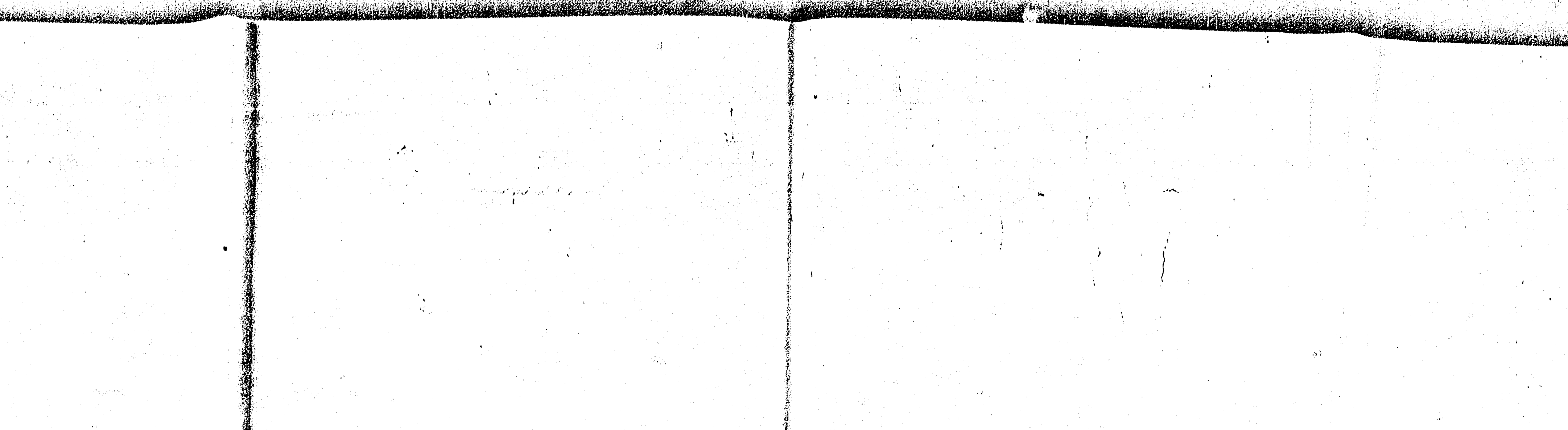
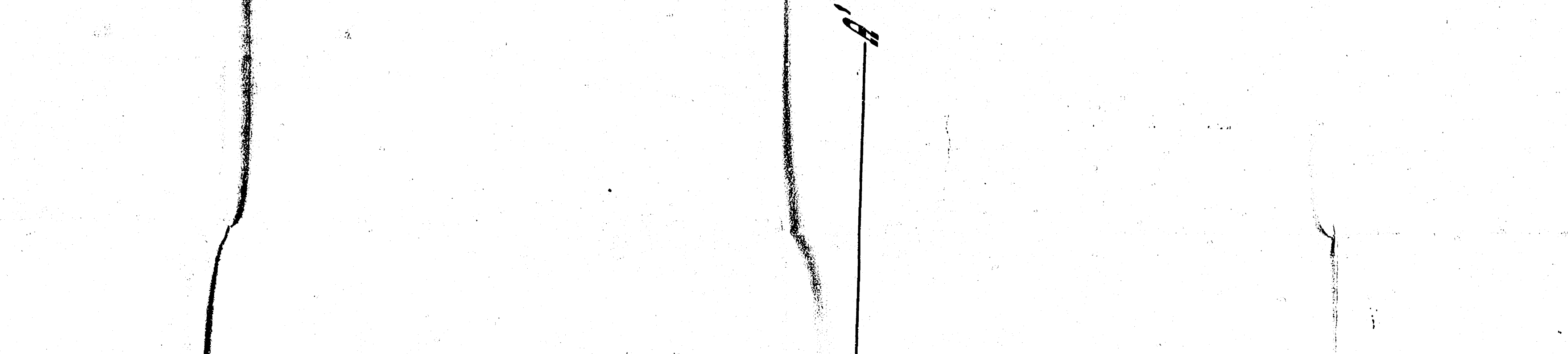
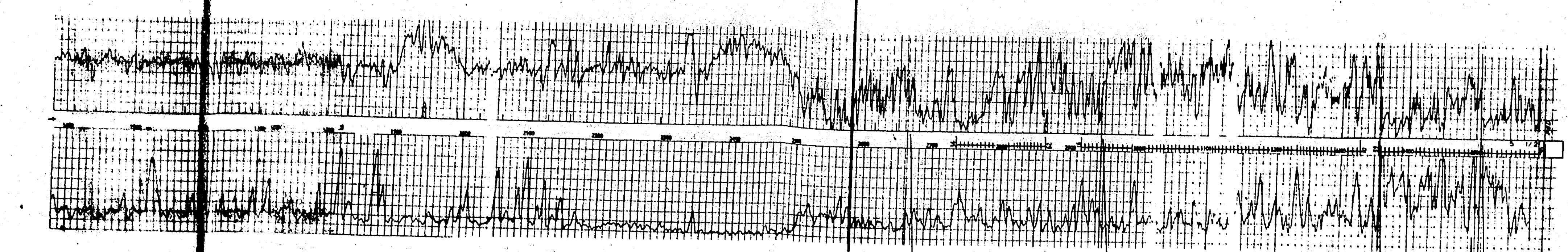
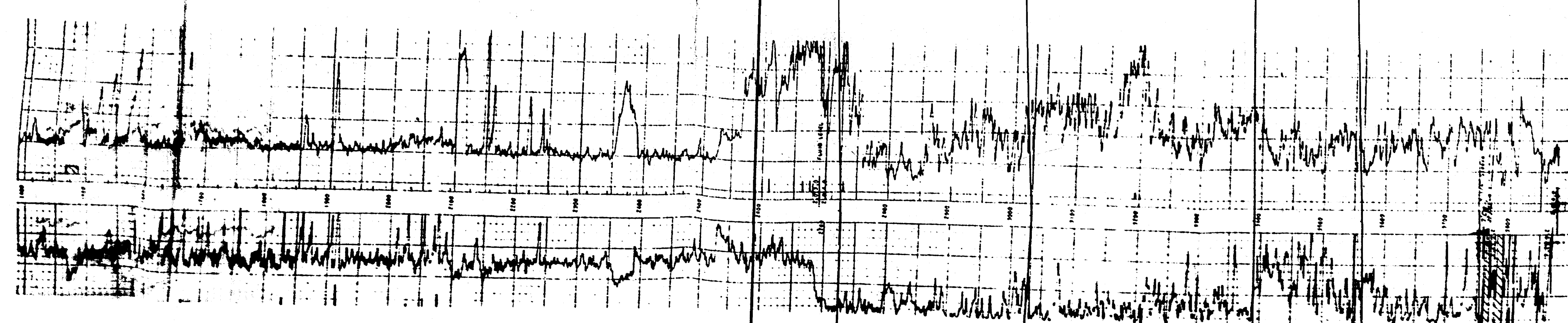
SHELL OIL CO.
#4-HOBLEY - STATE
1875 FUL & 1800 FUL
SEC. 5, T-21-S, R-35-E

6

GULF OIL CORP.
#4-HOBLEY - STATE
1875 FUL & 1800 FUL
SEC. 5, T-21-S, R-35-E

7

GULF OIL CORP.
#4-HOBLEY - STATE
1875 FUL & 1800 FUL
SEC. 5, T-21-S, R-35-E



T.D. 35' 0"
L.P. 6' 00" MCFOPD
2916-3320' - 3329'-3350'
Accumulative production to
1-1-57: Gas: 2,221,653 MCF

Grayburg - See Address
Accumulative production:
Oil: 274,553 bbl.

T.D. 31' 0"
L.P. 6' 00" MCFOPD
2916-3320' - 3329'-3350'
Accumulative production to 1-1-57:
Oil: 377,073 bbl.

7

EL PASO NATURAL GAS COMPANY
EXPLORATION - GEOLOGICAL DEPT.
SOUTHWEST REGION

CROSS SECTION
SUBSURFACE STRUCTURAL GEOLOGICAL CROSS SECTION A - A'
EUMONT (QUINN) GAS FIELD, LER COUNTY, NEW MEXICO
REFERENCE DATUM: 1000' ABOVE SEA LEVEL

VERT. 1"=100'
HORIZ. 1"=1000'

DATE: SEP. 1957

GEOLOGY BY: R. E. DALL
DRAFT BY: L. CUNTON

BEFORE EXAMINER INITIALES
DATE: 10-1-57



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FILE NO. 21
PAGE NO. 119-120-121-122-123-124
DATE 12-16-57
BY J. L. Allen

