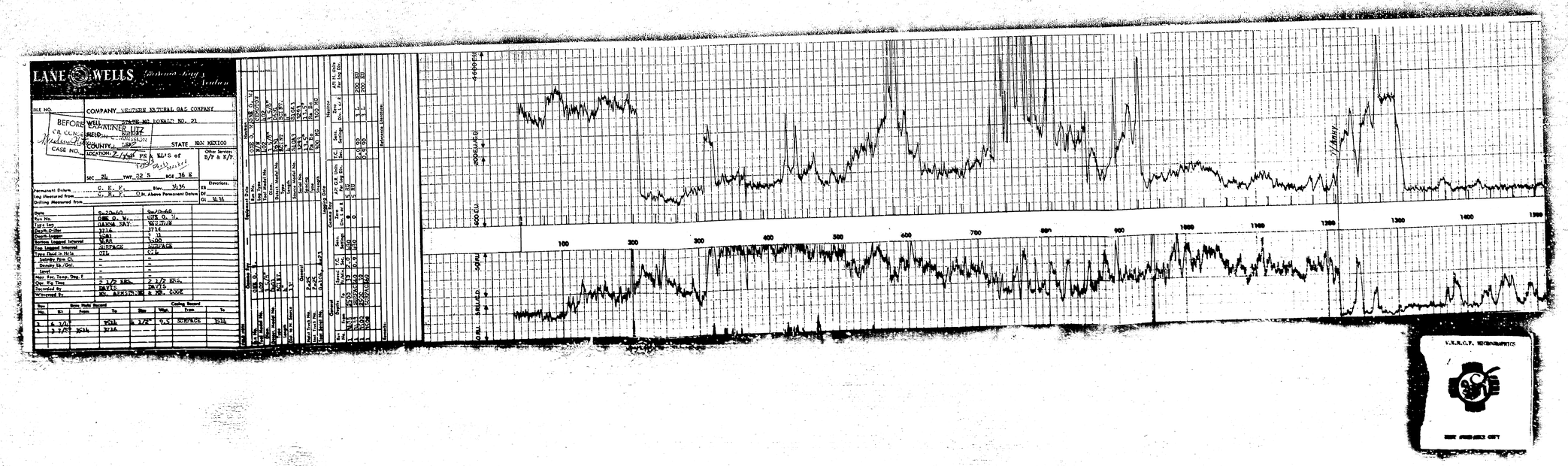
Case No.

2114

Large Exhibits


LANE WELLS
COMPANY NORTHERN NATURAL GAS COMPANY
WELL NAME NO. NONAL NO. 21
FIELD
COUNTY
STATE NEW MEXICO
LOCATION
SEC. 24 TWP. 22 S RGE. 36 E
Other Services
B/P & K/P
Permanent Datum
Log Measured from
Drilling Measured from
Elevations:
Run No.
Type Log
Depth-Driller
Depth-Logger
Bottom Logged Interval
Top Logged Interval
Type Fluid in Hole
Salinity PPM Cl.
Density Lb./Gal.
Level
Max. Rec. Temp. Deg. F
Oper. Rig Time
Recorded By
Witnessed By
Bore Hole Record
Casing Record
Equipment Data
Gamma Ray
Neutron
Gamma Ray - Neutron
Sonic
Caliper
Remarks
Reference Elevations
400 FEET
400 CPS
300 API UNITS
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200
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400
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1400
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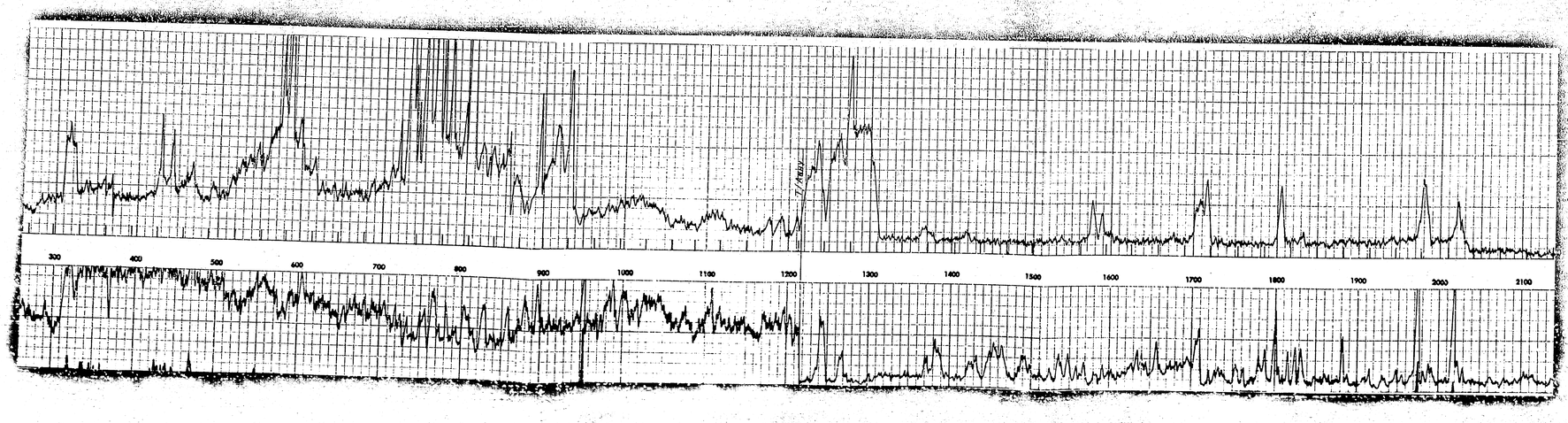
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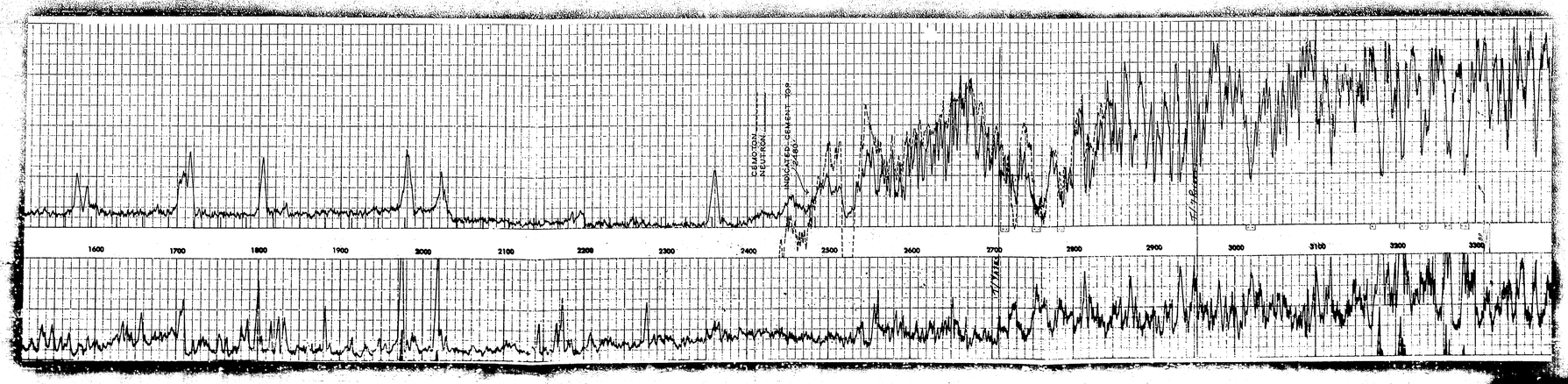
1600
1700
1800
1900
2000
2100

U.S.N.C.F. MICHIGAMPTON


CEMOTON
NEUTRON
1600
1700
1800
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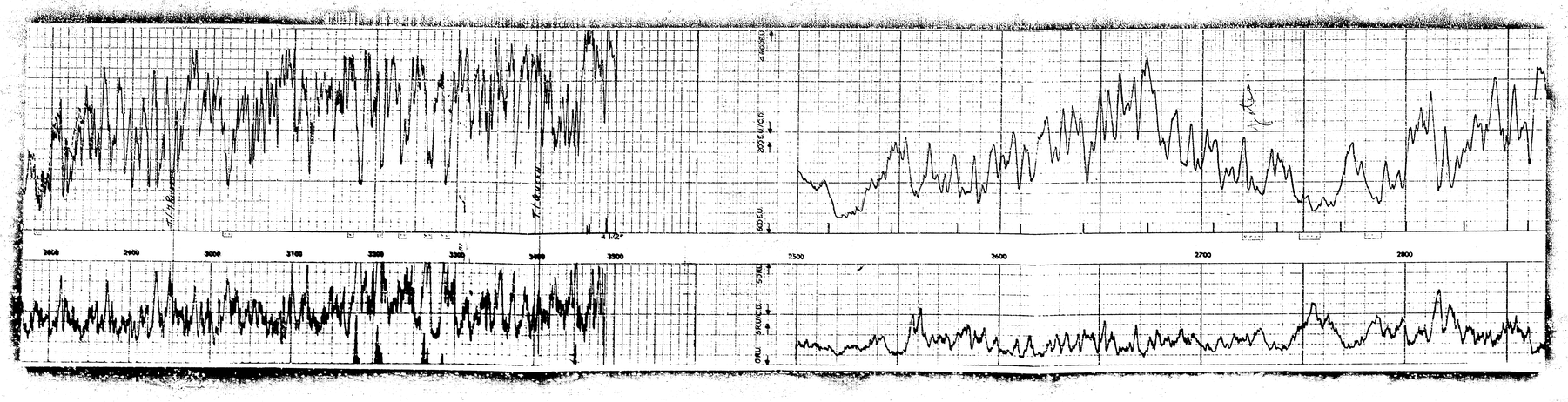
3100
3200
3300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2600
2700
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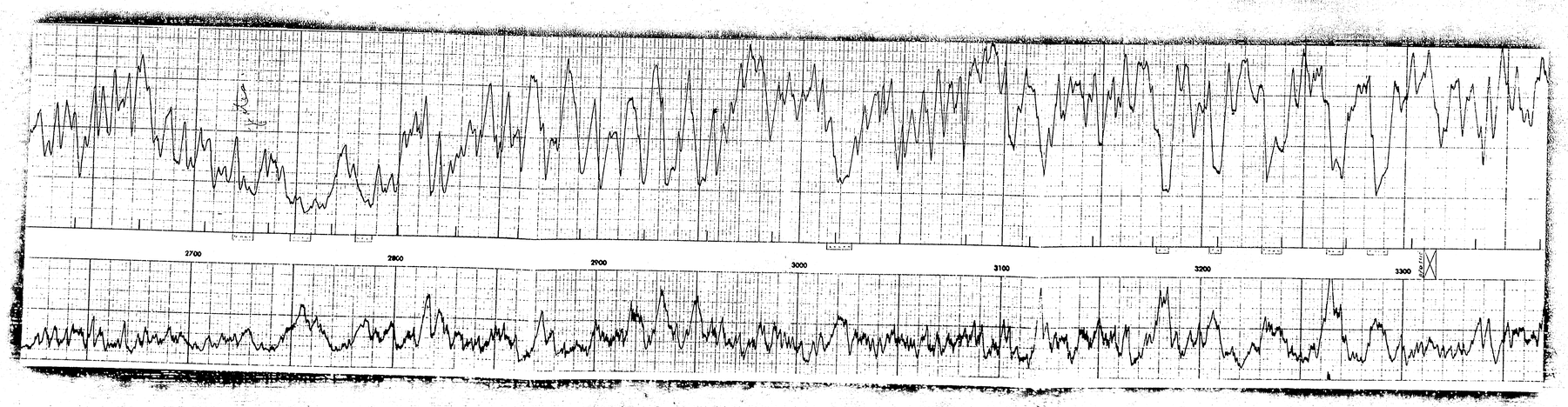
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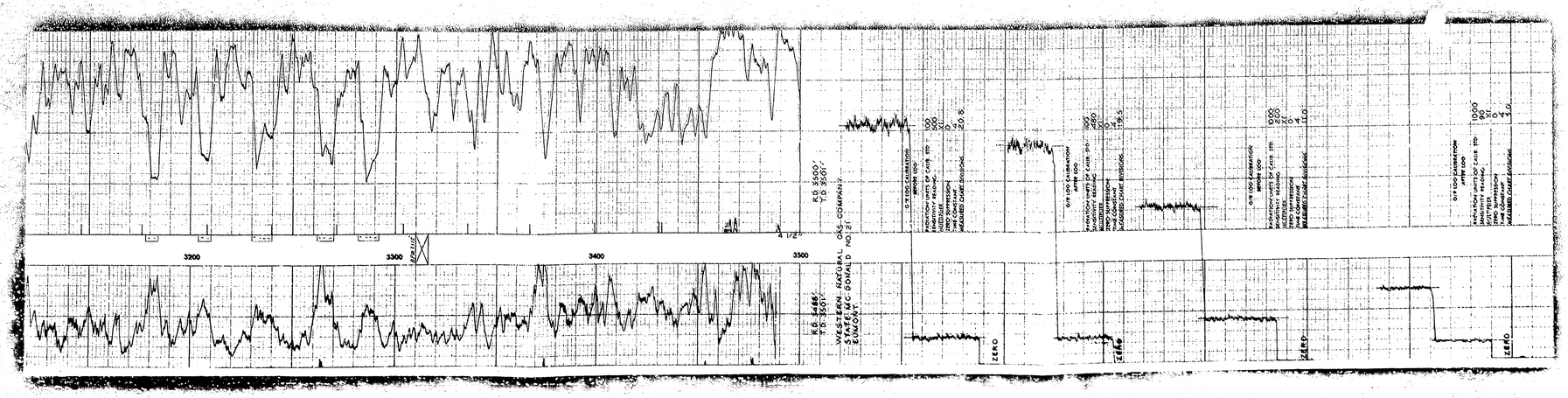
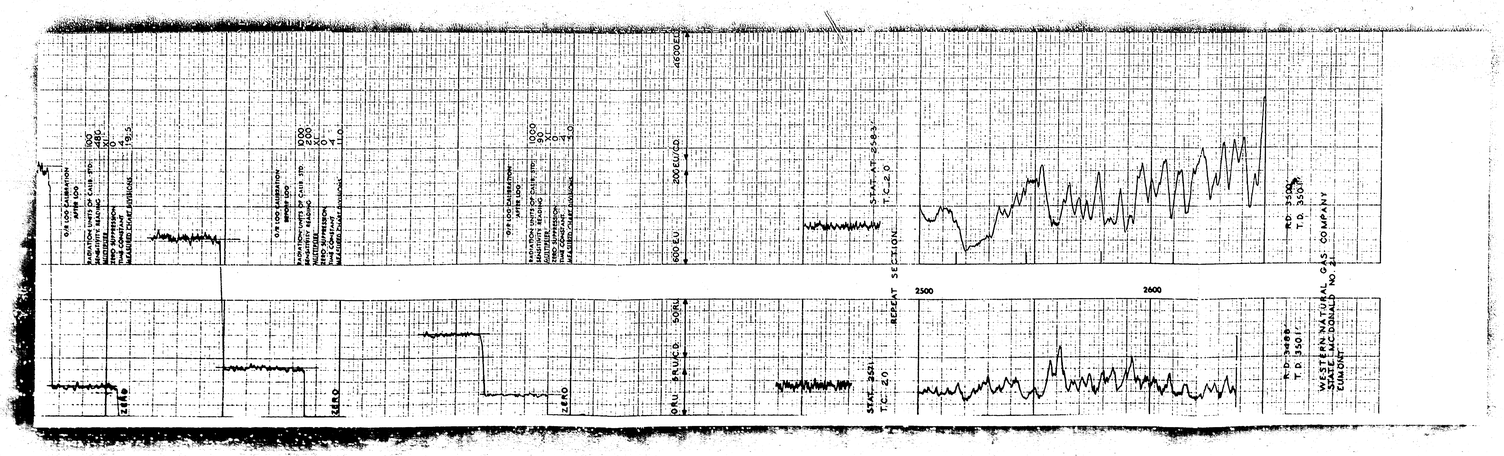
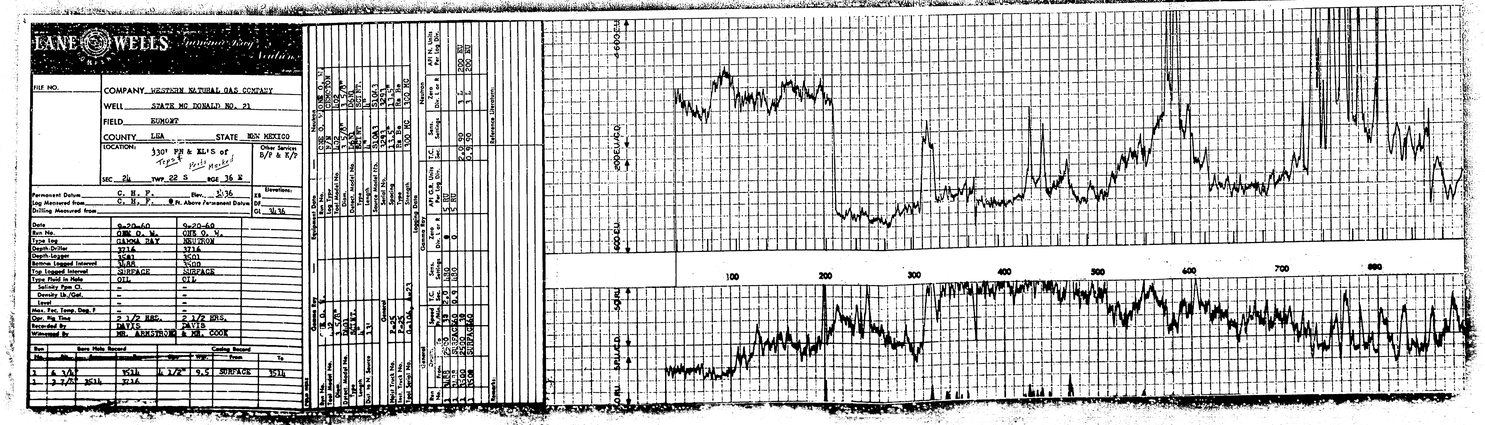
2800
2900
3000
3100
3200
3300

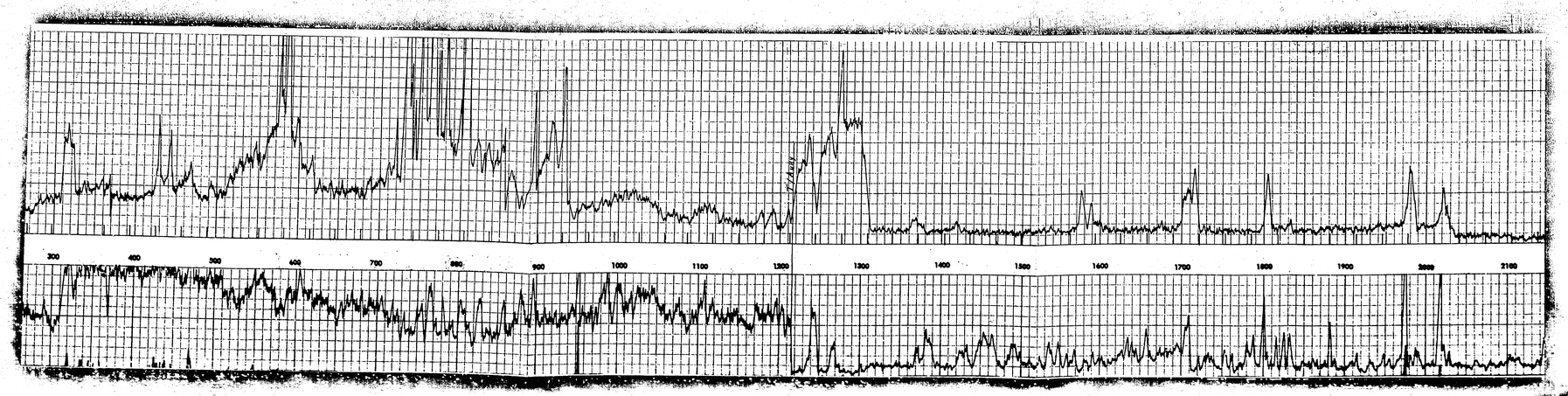

R.D. 3500'
T.D. 3501'
4 1/2"
3200
3300
3400
3500
WESTERN NATURAL GAS COMPANY
STATE MC DONALD NO. 21
EUNICE
R.D. 3495'
T.D. 3501'
O.H. LOG CALIBRATION
BEFORE LOG
SENSITIVITY METER SET CASE STD
SENSITIVITY
MULTIPLIER
TIME CONSTANT
MEASURED CHART DEFLECTION
ZERO
O.H. LOG CALIBRATION
AFTER LOG
SENSITIVITY METER SET CASE STD
SENSITIVITY
MULTIPLIER
TIME CONSTANT
MEASURED CHART DEFLECTION
ZERO
O.H. LOG CALIBRATION
BEFORE LOG
SENSITIVITY METER SET CASE STD
SENSITIVITY
MULTIPLIER
TIME CONSTANT
MEASURED CHART DEFLECTION
ZERO
O.H. LOG CALIBRATION
AFTER LOG
SENSITIVITY METER SET CASE STD
SENSITIVITY
MULTIPLIER
TIME CONSTANT
MEASURED CHART DEFLECTION
ZERO

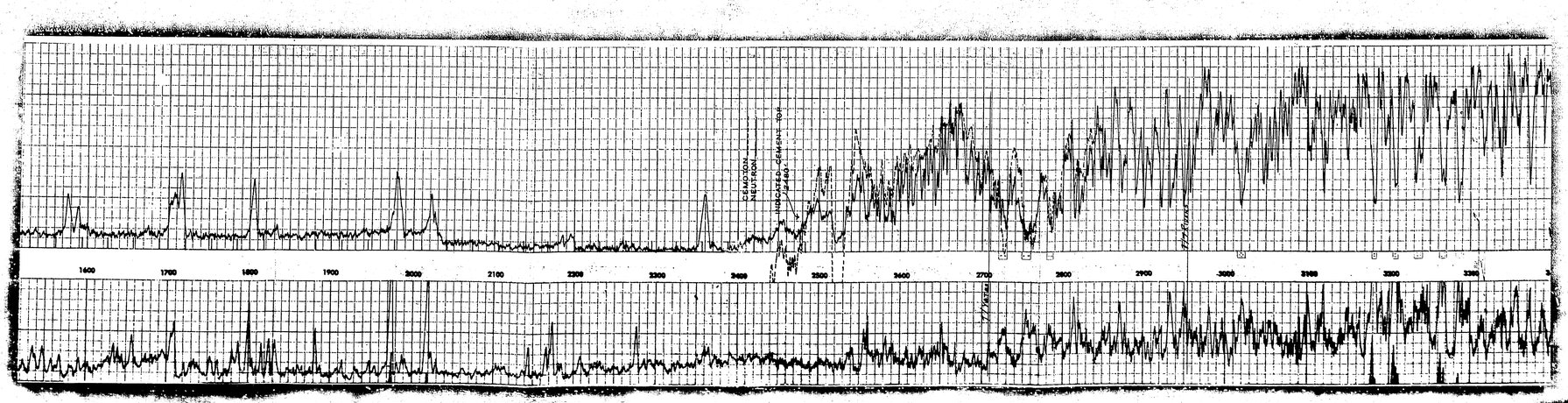


U.S.B.R.C.F. MICROGRAPHICS

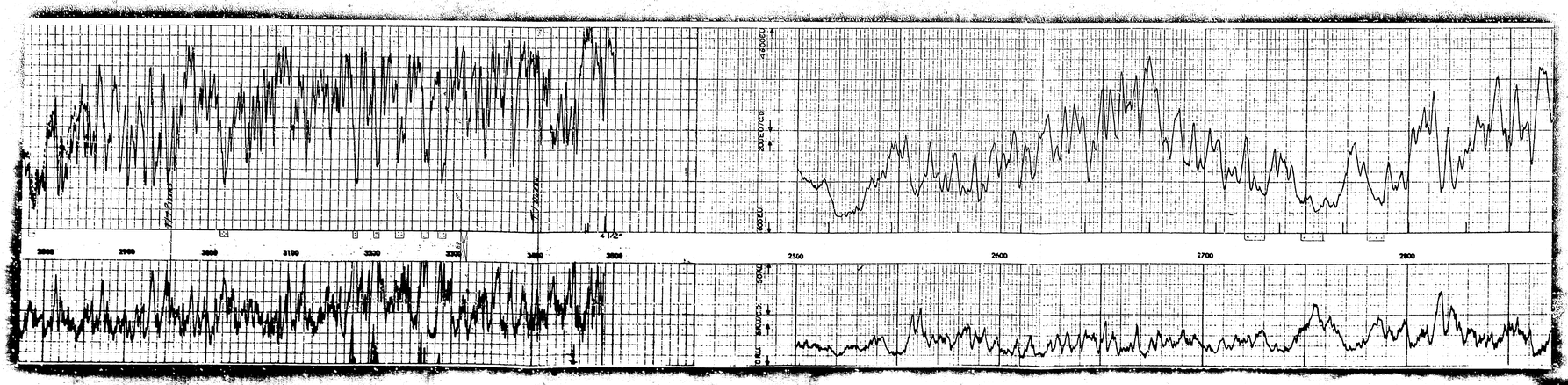


U.S.B.G.S. MICROGRAPHICS

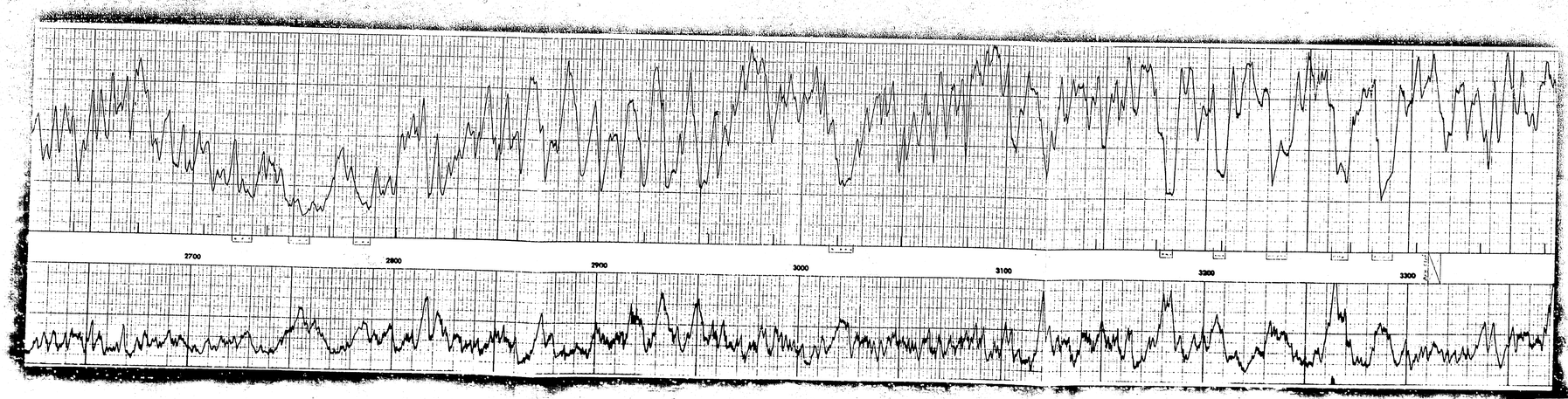

300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
1600
1700
1800
1900
2000
2100


DEMOTON
NEUTRON
INDICATED CEMENT TOP
@ 2480'
1600
1700
1800
1900
2000
2100
2200
2300
2400
2500
2600
2700
2800
2900
3000
3100
3200
3300

V.E.R.C.P. RECIPROPHOTO



V.N.R.C.F. MICROGRAPHICS
BEST AVAILABLE COPY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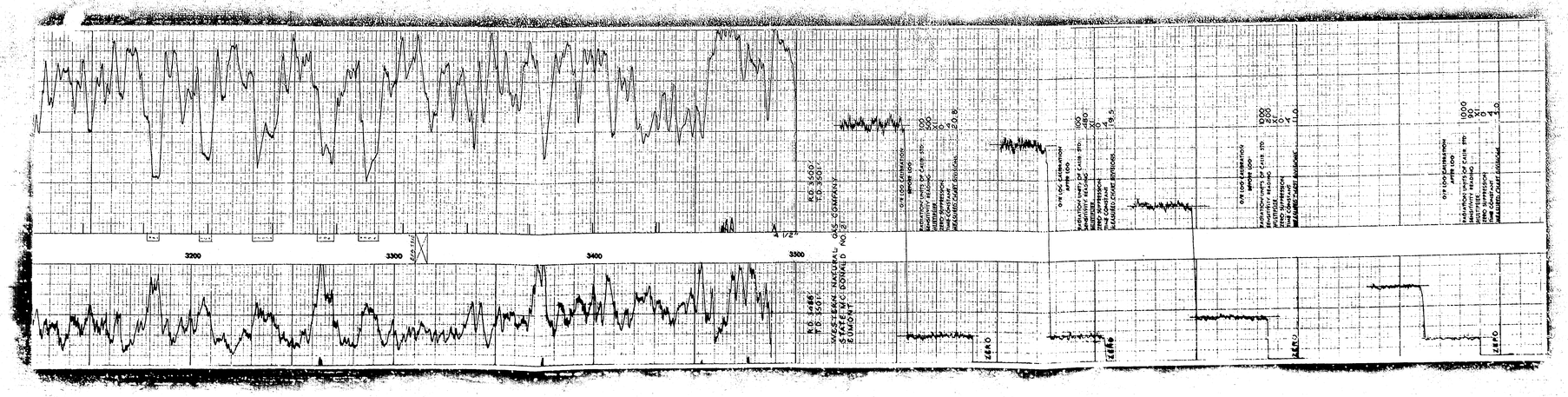
3100
3200
3300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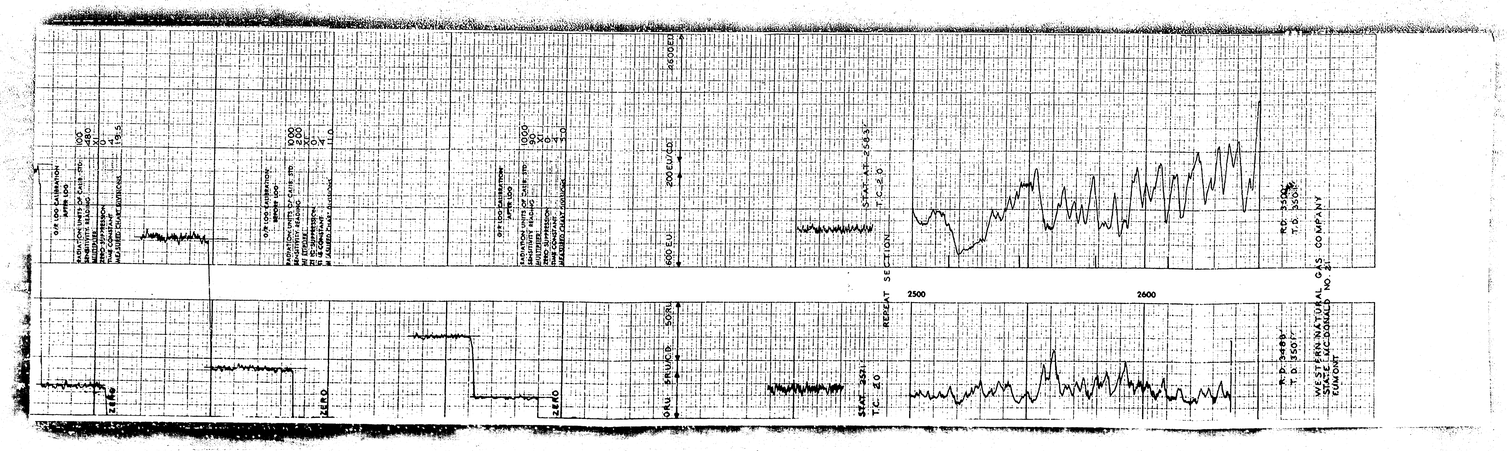
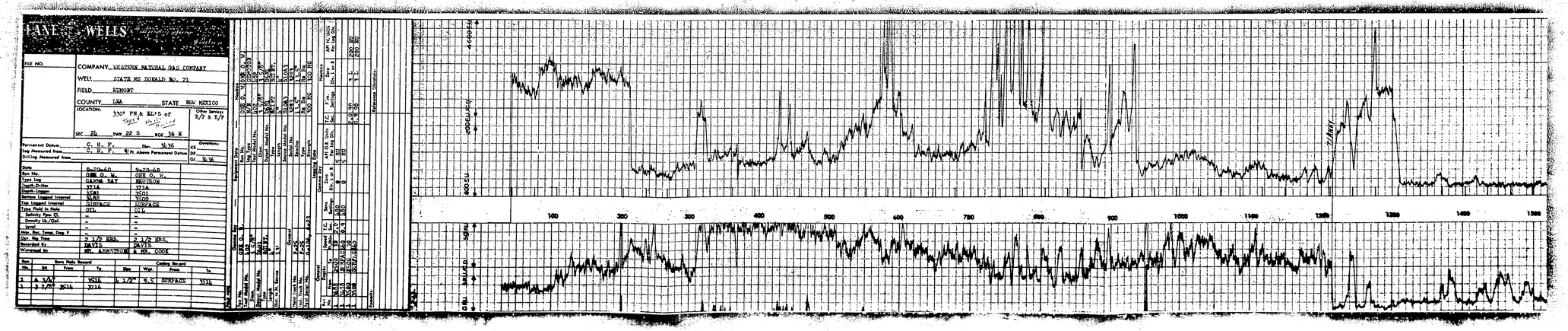
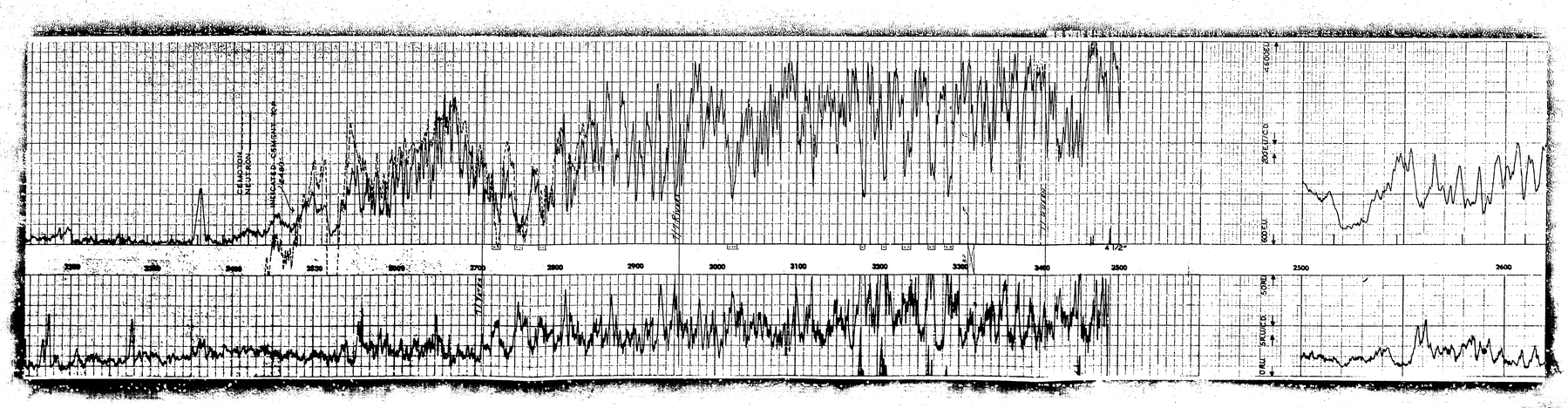
3300
3400
3500
KO 3500
KO 3501
WESTERN NATURAL GAS EQUIPMENT COMPANY
DUMONT
0937
0940



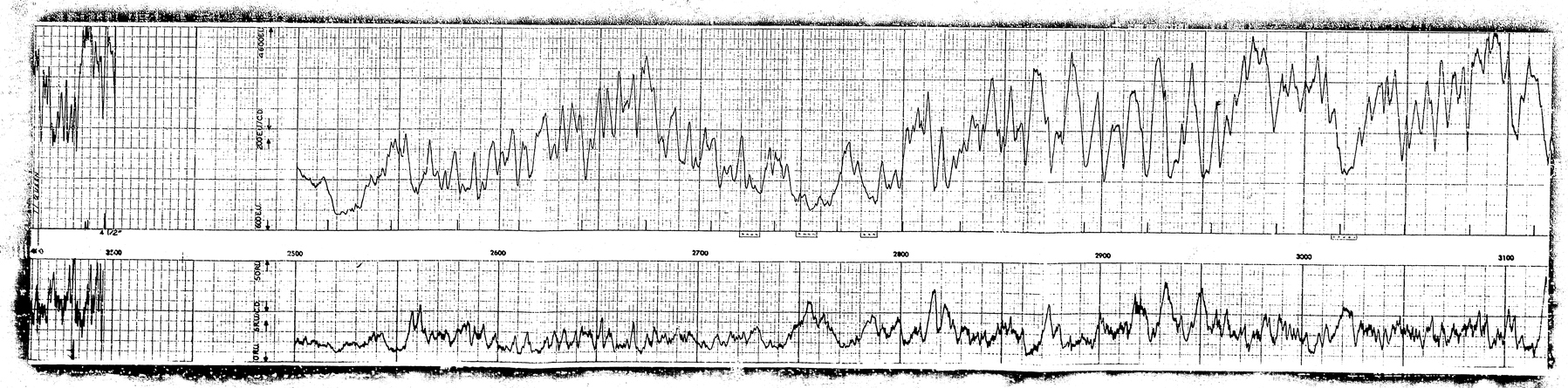
U.S.B.C.F. RHEOGRAPHICS


LANE WELLS
FILE NO.
COMPANY WESTERN NATURAL GAS COMPANY
WELL STATE MC DONALD NO. 21
FIELD EUNICE
COUNTY LEA STATE NEW MEXICO
LOCATION: 330' FN & EL's of
SEC 24 TWP 22 S RGE 36 E
Other Services: S/P & R/A
Permanent Datum: G. L. Elev. 3436 KB
Log Measured from: G. L. 12 Ft. Above Permanent Datum DF
Drilling Measured from: GL 3436
Date 8-20-60 8-20-60
Run No. ONE O. H. ONE O. H.
Type Log GAMMA RAY NEUTRON
Depth-Driller 3714 3714
Depth-Logger 3701 3701
Bottom Logged Interval 3680 3700
Top Logged Interval SURFACE SURFACE
Type Fluid in Hole OIL OIL
Salinity, Ppm Cl - -
Density Lb./Gal. - -
Level - -
Max. Rec. Temp. Deg. F - -
Oper. Rig Time 2 1/2 HRS. 2 1/2 HRS.
Recorded By DAVIS DAVIS
Witnessed By MR. ASHSTROM & MR. COOK
Run No. Bore Hole Record Casing Record
No. Bit From To Size Wgt. From To
1 4 1/4" SURFACE 3714 8 3/8" 24# SURFACE 3716
2 3 7/8" 3714 3716
Equipment Data
Gamma Ray
Neutron
Gamma Ray
Neutron
Sonde
Sonde
Sonde
Sonde
Gamma Ray
Neutron
Gamma Ray
Neutron
Gamma Ray
Neutron

V.R.R.C.F. MICROGRAPHICS



V.R.R.C.F. MICROGRAPHICS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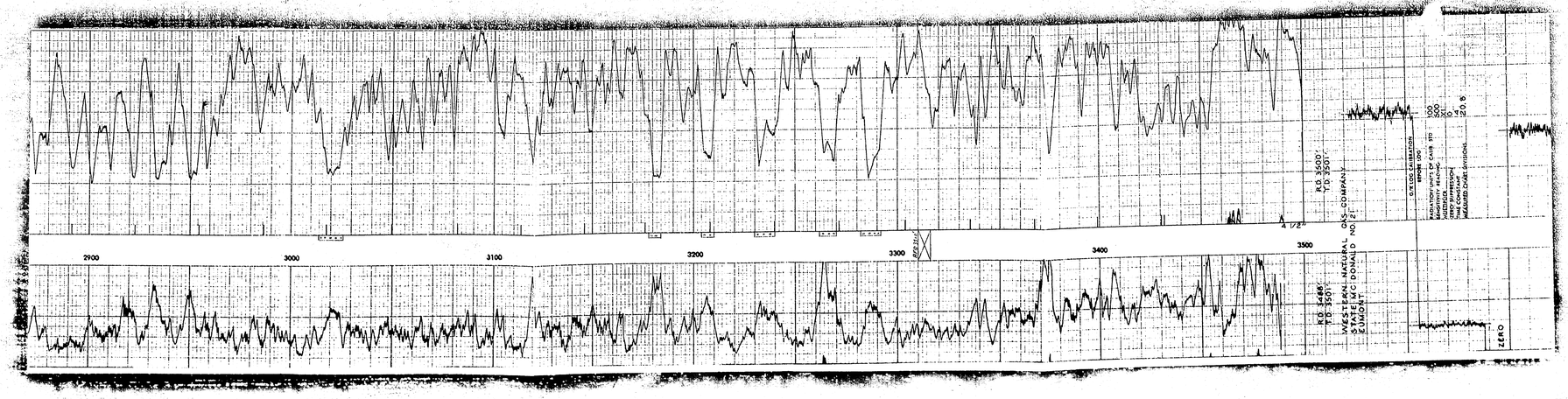
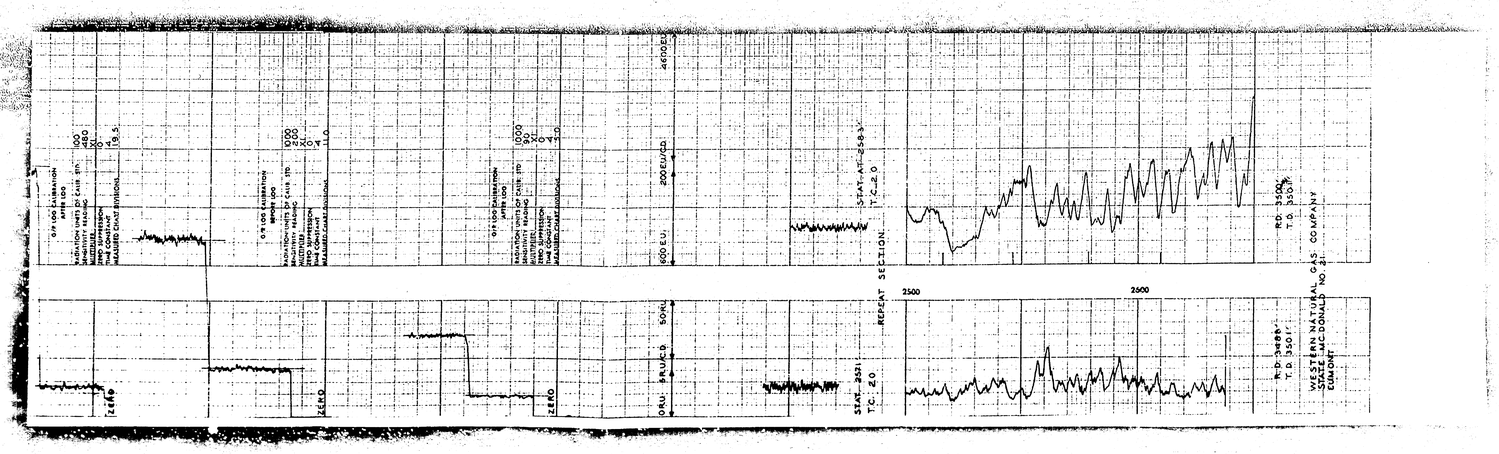
2600
2700
2800
2900
3000
3100



U.S.B.G.F. MICROGRAPHICS

K.O. 3500'
T.O. 3500'
4 1/2"
3400
3500
K.O. 3487'
T.O. 3501'
WESTERN NATURAL GAS COMPANY
SEMCO DOUBLE NO. 27
BEAUMONT
0-100 CALIBRATION
AFTER 100
0-100 CALIBRATION
AFTER 100
0-100 CALIBRATION
AFTER 100
ZERO
ZERO
ZERO
ZERO
2400 DEG
2000 DEG/CD
1600 DEG.
1000 DEG/CD
800 DEG.
500 DEG/CD
STAT. AT 2563'
T.C. 2.0
STAT. 2511'
T.C. 2.0
REPEAT SECTION
2500
2400



U.S.B.C.F. MICROGRAPHICS