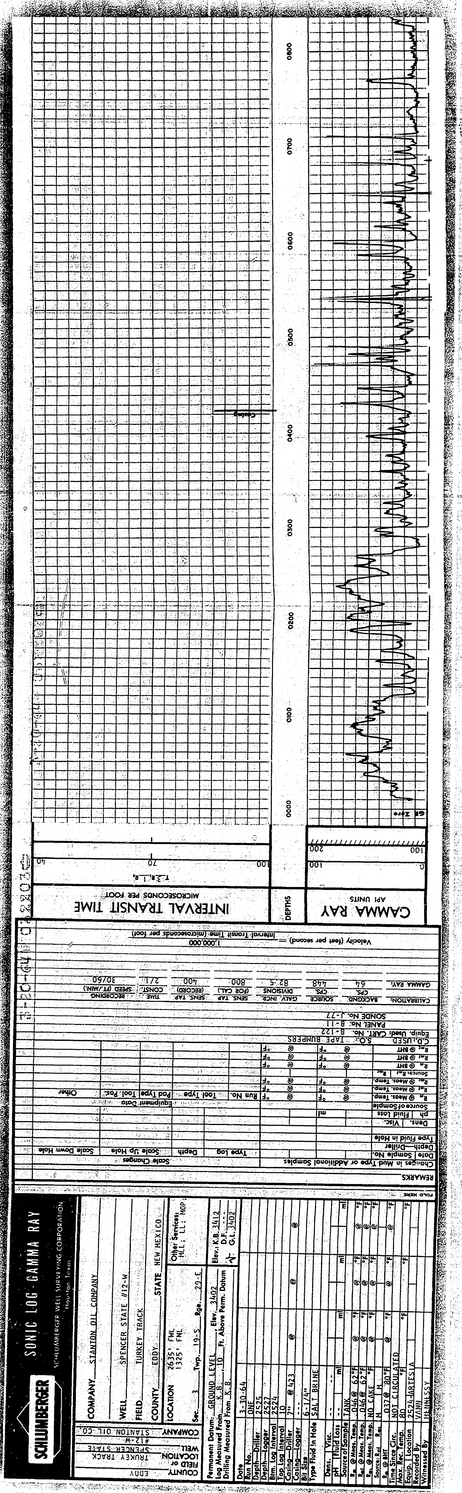
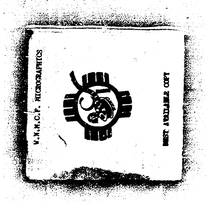
Case No
3064

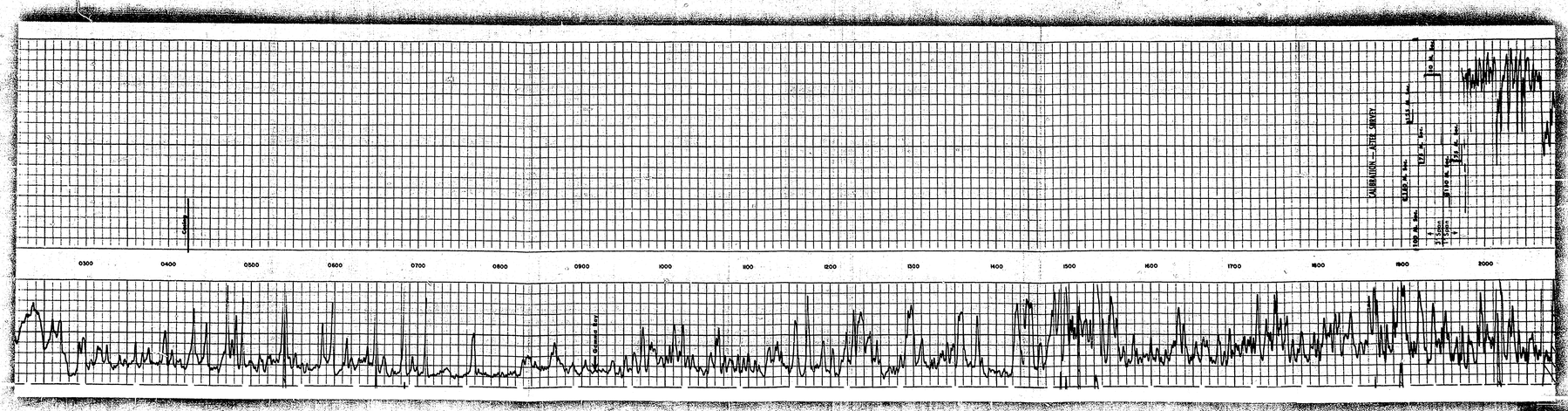
Large Exhibits

W.R.W.C.F. MICROGRAPHICS

BEST AVAILABLE COPY

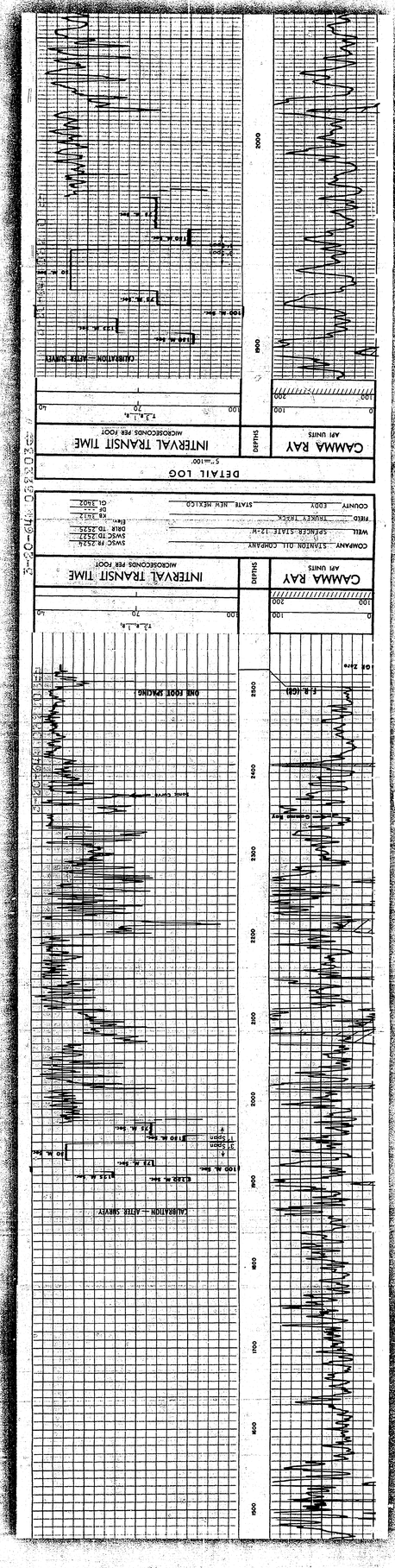

SCHLUMBERGER
SONIC LOG GAMMA RAY
SCHLUMBERGER WELL SURVEYING CORPORATION
COMPANY STANTON OIL COMPANY
WELL SPENCER STATE #12-W
FIELD TURKEY TRACK
COUNTY EDDY STATE NEW MEXICO
LOCATION 1935' FNL 1935' FEL
Sec. 3 Twp. 19-S Rge. 29-E
COMPANY STANTON OIL CO.
WELL SPENCER STATE #12-W
FIELD TURKEY TRACK
COUNTY EDDY STATE NEW MEXICO
Permanent Datum GROUND LEVEL Elev. 3609
Log Measured From K.B. 10 Ft. Above Perm. Datum
Drilling Measured From K.B.
Elev. K.B. 3612
D.F. 3611
G.L. 3602
Run No. ONE
Depth—Driller 4525
Depth—Logger 4525
Btm. Log Interval 4525
Top Log Interval 210 @ 823
Casing—Driller 8 5/8" @
Casing—Logger 6:17/24"
Bit Size
Type Fluid in Hole SALT BRINE
Dens. Visc.
pH Fluid Loss
Source of Sample TANK
Rm @ Meas. Temp. .104 @ 62°F
Rmf @ Meas. Temp. .084 @ 62°F
Rm @ Bhm. Temp. NO CIRC @ °F
Source Rmf Rmc
Rm @ BHT @ °F
Rmf @ BHT @ °F
Rmc @ BHT @ °F
Time Since Circ. 8 HRS
Max. Rec. Temp. 80°F CIRCULATED
Equip. Location 7762-HOBBS/A
Recorded By JOHNNASSY
Witnessed By JOHNNASSY
REMARKS
Run-Bit-Size & Mud Type or Additional Samples
Date
Run No.
Depth—Driller
Depth—Logger
Btm. Log Interval
Top Log Interval
Type Fluid in Hole
Dens. Visc.
pH Fluid Loss
Source of Sample
Rm @ Meas. Temp.
Rmf @ Meas. Temp.
Rmc @ Meas. Temp.
Source Rmf Rmc
Rm @ BHT
Rmf @ BHT
Rmc @ BHT
Equip. Location
Recorded By
Witnessed By
Type Log
Depth
Scale Change
Scale Up Hole
Scale Down Hole
Equipment Data
Rec. No.
Tool Type
Rad Type
Tool Pos.
Other
CO-USED
SO.
TAPE BLURPERS
CALIBRATION
BACKGND
SOURCE
GAM. INTG
SHNS TAP
SHNS TAP
SHNS TAP
GAMMA RAY
CPS
CPS
(RECORD)
CONT.
SWEEP
RECORDING
GAMMA RAY
API UNITS
INTERVAL TRANSIT TIME
MICROSECONDS PER FOOT
DEPTH
SCALE
Velocity (feet per second) = 1,000,000 / Interval Transit Time (microseconds per foot)
0000
0100
0200
0300
0400
0500
0600
0700
0800
Gr Zero
100
0
100
100
70
100


N.M.O.C.C. RECORD/PHOTO
MUST STAY WITH CARD

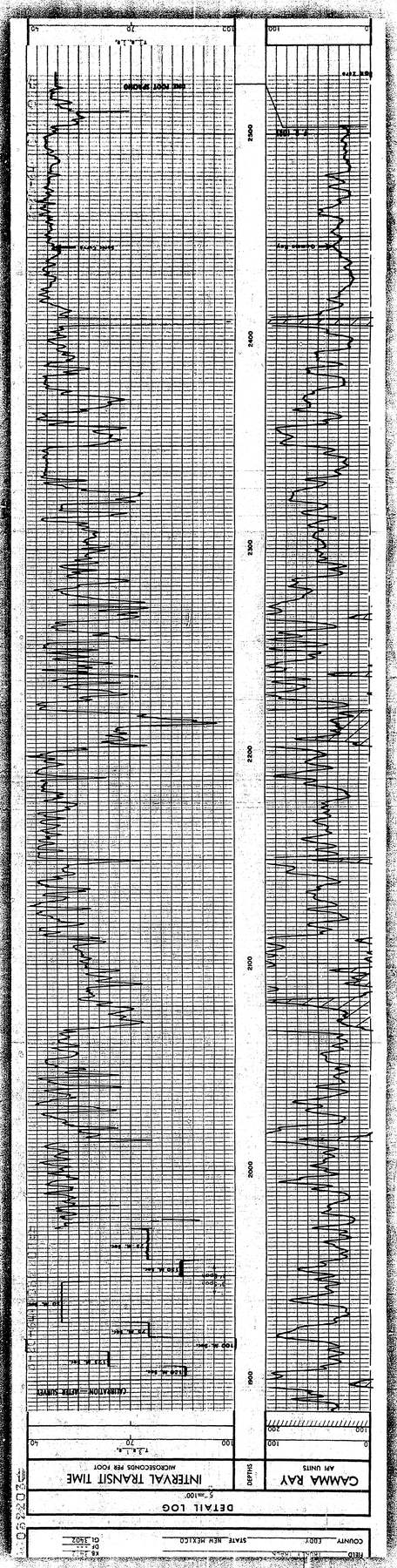


W.M.M.C.F. MICROGRAPHICS

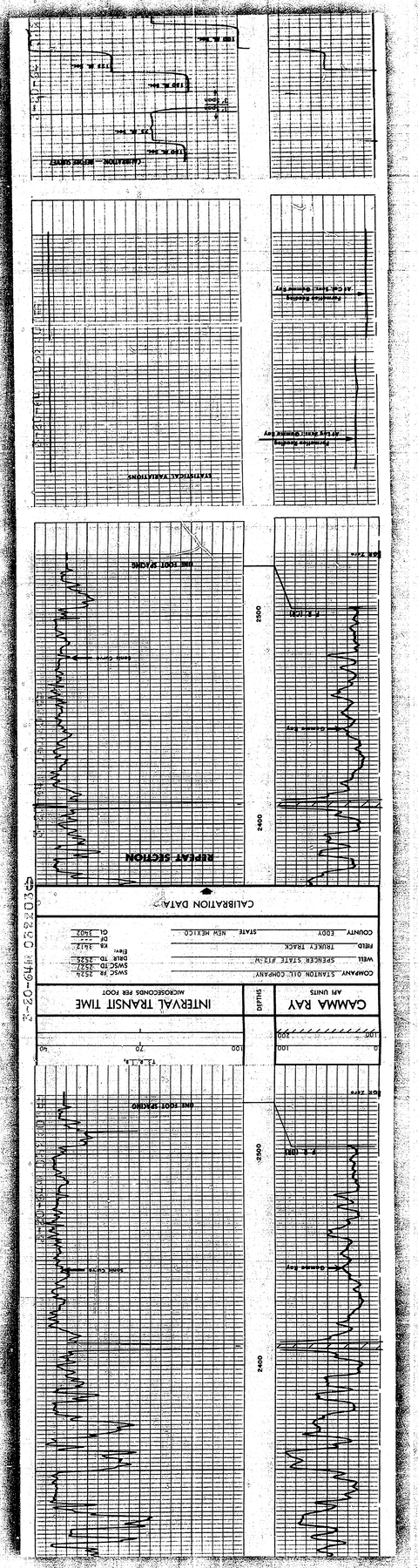
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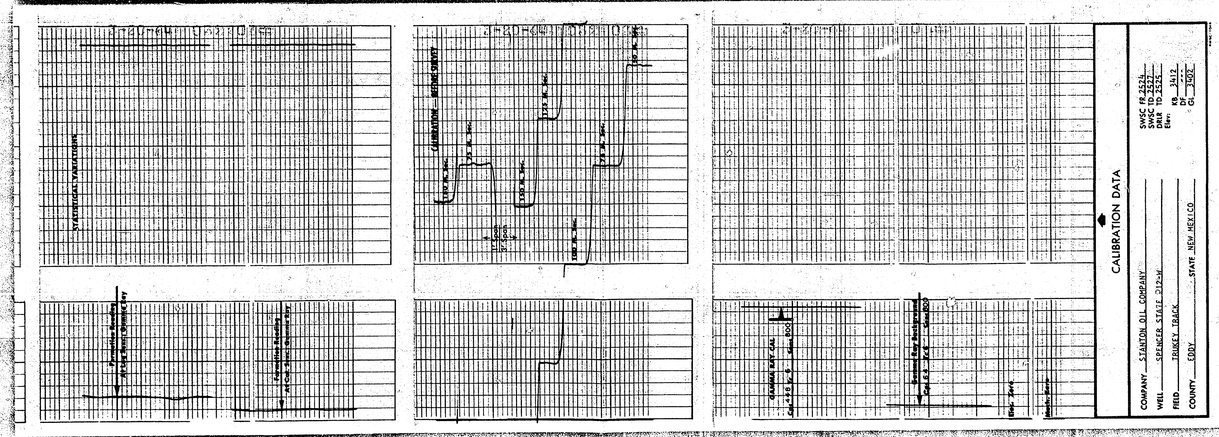
V.I.N.C.Y. MICROGRAPHICS
SAN ANTONIO, TEXAS


DETAIL LOG
5"=100'
GAMMA RAY
API UNITS
DEPTHS
INTERVAL TRANSIT TIME
MICROSECONDS PER FOOT
CALIBRATION — AFTER SURVEY
COUNTY EDDY STATE NEW MEXICO
FIELD
0
100
200
2000
2100
2200
2300
2400
2500


V.I.N.C.P. MICROGRAPHICS
LAND SURVEYING ASSN



V.I.N.C.P. MICROGRAPHICS
SEE FEATURE CARD



W.M.N.C.P. MICROGRAPHICS
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SCHLUMBERGER

Formation Analysis Log

MOVABLE OIL PLOT

SCHLUMBERGER WELL SURVEYING CORPORATION
HOUSTON, TEXAS

COUNTY EDDY
FIELD OR REGION TURKEY TRACK
WELL SPENCER STATE #12-W
COMPANY STANTON OIL CO

COMPANY STANTON OIL COMPANY

WELL SPENCER STATE #12-W

FIELD TURKEY TRACK

COUNTY EDDY STATE NEW MEXICO

LOCATION 2635' FWL
1325' FNL

Sec. 3 Twp. 19S Rge. 29E

Other Services:
SGR; LL; MLL

Permanent Datum: GROUND LEVEL Elev. 3402
Log Measured From K.B. 10 Ft. Above Perm. Datum
Drilling Measured From K.B.

Elev.: K.B. 3412
D.F.
G.L. 3402

Date	3-20-64					
Run No.	ONE					
Depth—Driller	2525					
Depth—Logger	2527					
Btm. Log Interval	2522					
Top Log Interval	2000					
Casing—Driller	7" @ 423	@	@	@		
Casing—Logger	---					
Bit Size	6-1/4"					
Type Fluid in Hole	SAL BRINE					
Dens. / Visc.	--- / ---					
ph / Fluid Loss	--- / --- ml		ml		ml	ml
Source of Sample	TANK					
R_m @ Meas. Temp.	.046@ 62 °F	@ °F	@ °F	@ °F	@ °F	
R_{mf} @ Meas. Temp.	.046@ 62 °F	@ °F	@ °F	@ °F	@ °F	
R_{mc} @ Meas. Temp.	NO PICKUP °F	@ °F	@ °F	@ °F	@ °F	
Source R_{mf} / R_{mc}	M / M					
R_w @ BHT	.037@ 80°F	@ °F	@ °F	@ °F	@ °F	
Time Since Circ.	NOT CIRCULATED*					
Max. Rec. Temp.	80 °F		°F		°F	
Equip. Location	2520- ARTESIA					
Recorded By	VANN					
Witnessed By	HENNESSY					

REMARKS Type Fluid in Hole Dens. Visc. ph Fluid Loss Source of Sample R_m @ Meas. Temp. R_{mf} @ Meas. Temp. R_{mc} @ Meas. Temp. Source R_{mf} / R_{mc} R_w @ BHT Time Since Circ. Max. Rec. Temp. Equip. Location Recorded By Witnessed By

Type Log Depth—Driller Depth—Logger Btm. Log Interval Top Log Interval Casing—Driller Casing—Logger Bit Size Type Fluid in Hole

Run No. Tool Type Position Pad Type Tool No.

Scale Up Hole — Scale Down Hole

Equipment Data

Other

* DRILLED WITH 6% C. HOLE FILLED WITH BRINE JUST PRIOR TO LOGGING.
FLUID HAD BEEN ADDED SEVERAL TIMES AT TIME OF MIL

This log is automatically computed at the wellsite by the Schlumberger Minilog, and microlaterolog using the following relationships:

$\phi_T = \frac{\Delta t - \Delta t_{ma}}{y \Delta t} \times 100$

$\phi_{SD} = \sqrt{\frac{R_{mf}}{R_{xo}}} \times 100$

$\phi_{mic} = \sqrt{\frac{R_{mf}}{R_{xo}}} \times 100$

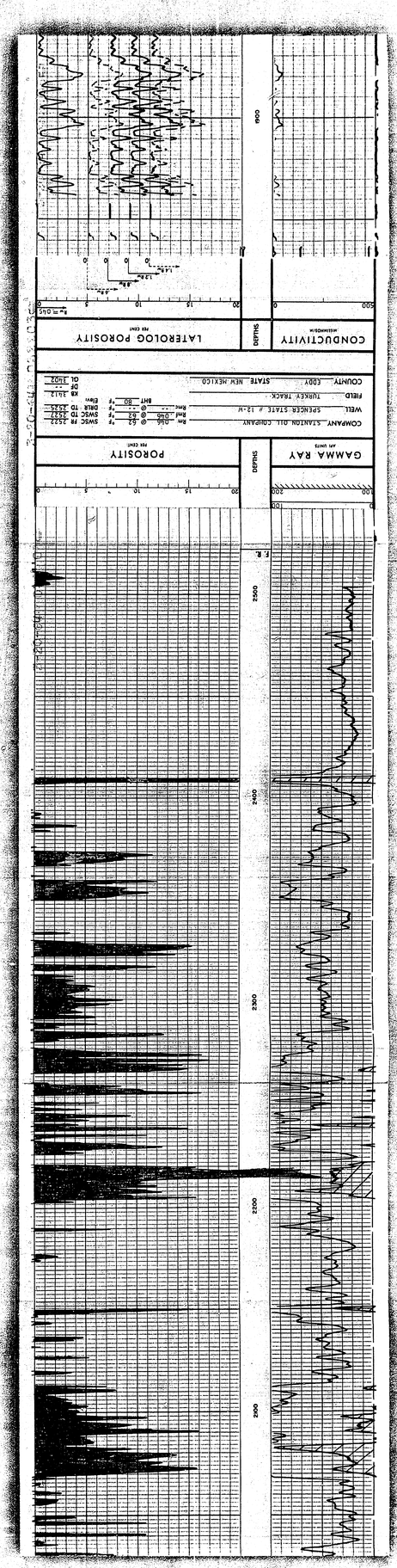
We have taken all reasonable precautions in preparing this log and believe that the data and interpretations appearing herein are accurate. However, because we cannot control the use to which this log is put, we cannot guarantee the absolute correctness or completeness of these data and interpretations, and we shall not be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions as set out in our current price schedule.

5203

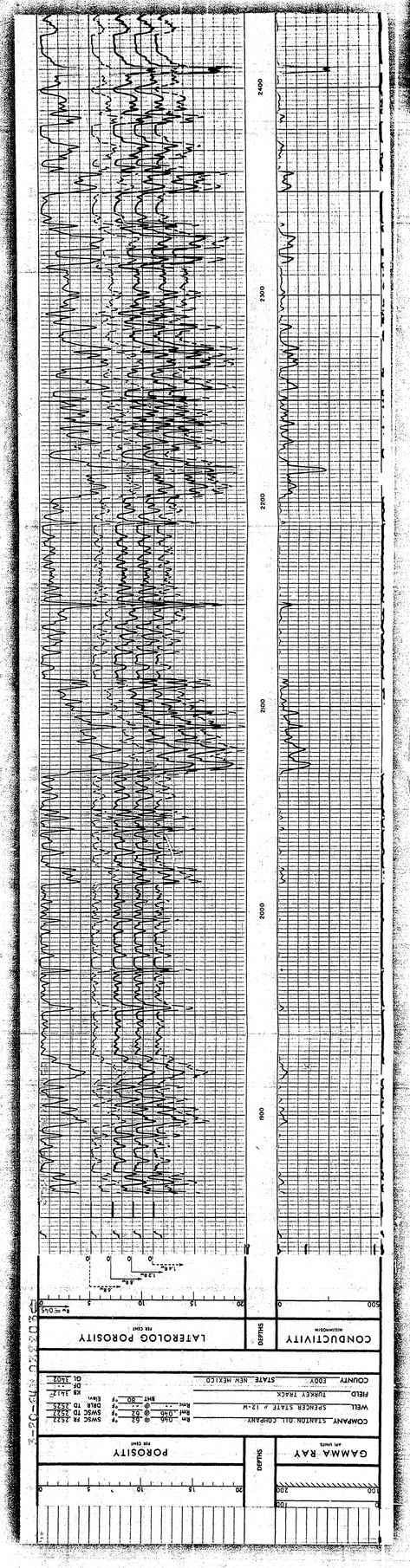
Run	Date	Depth—Driller	Depth—Logger	Bottom Log Interval	Top Log Interval	Casing—Driller	Casing—Logger	Bit Size	Type Fluid in Hole	Dens.	Visc.
ONE	3-20-64	2525	2527	2522	2000	7" @ 423	---	6-1/4"	SAL BRINE	---	---

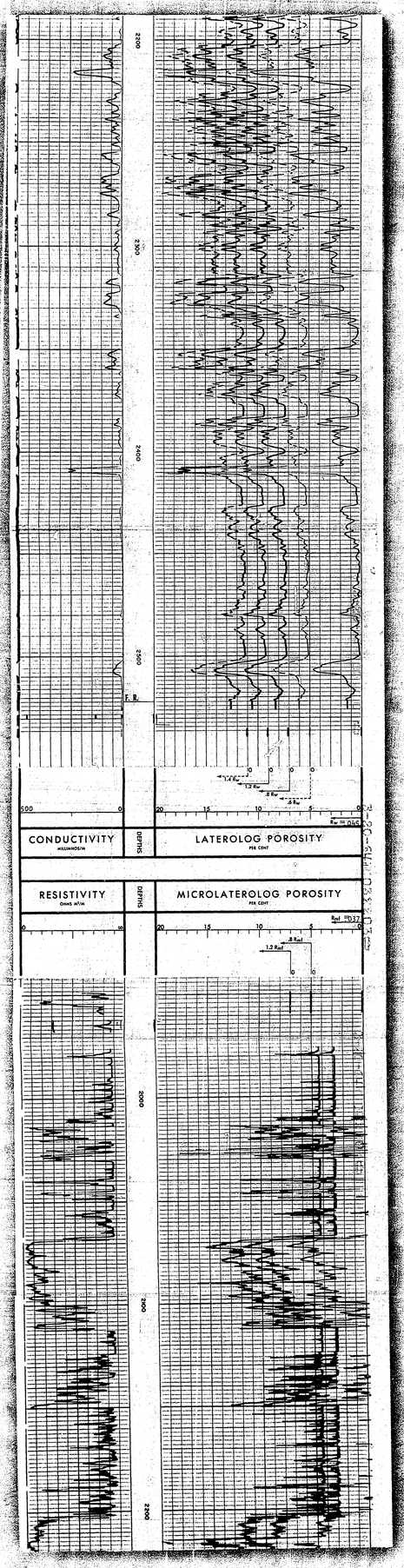
Run	ph	Fluid Loss	Source of Sample	R_m @ Meas. Temp.	R_{mf} @ Meas. Temp.	R_{mc} @ Meas. Temp.	Source R_{mf} / R_{mc}	R_w @ BHT	Time Since Circ.	Max. Rec. Temp.	Equip. Location	Recorded By	Witnessed By
ONE	---	--- ml	TANK	.046@ 62 °F	.046@ 62 °F	NO PICKUP °F	M / M	.037@ 80°F	NOT CIRCULATED*	80 °F	2520- ARTESIA	VANN	HENNESSY

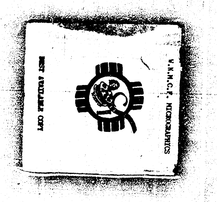
Run	Scale Up Hole	Scale Down Hole	Type Log	Depth	Run No.	Tool Type	Position	Pad Type	Tool No.	Other
ONE	5" / 100 ft	5" / 100 ft	DUAL INDUCTION LATEROLOG	2525	ONE	DIL	---	---	---	---
			MICROLATEROLOG	2525	ONE	MLL	---	---	---	---
			SONIC GAMMA RAY	2525	ONE	SGR	---	---	---	---

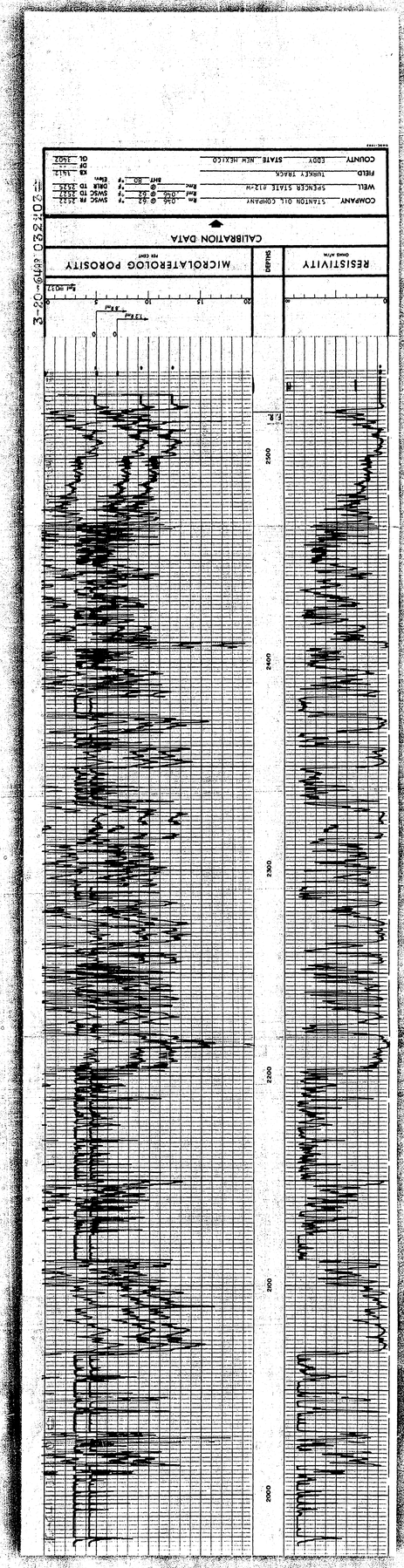


A.P.I. STANDARD COPY
N.M.A.C.F. MICROGRAPHICS

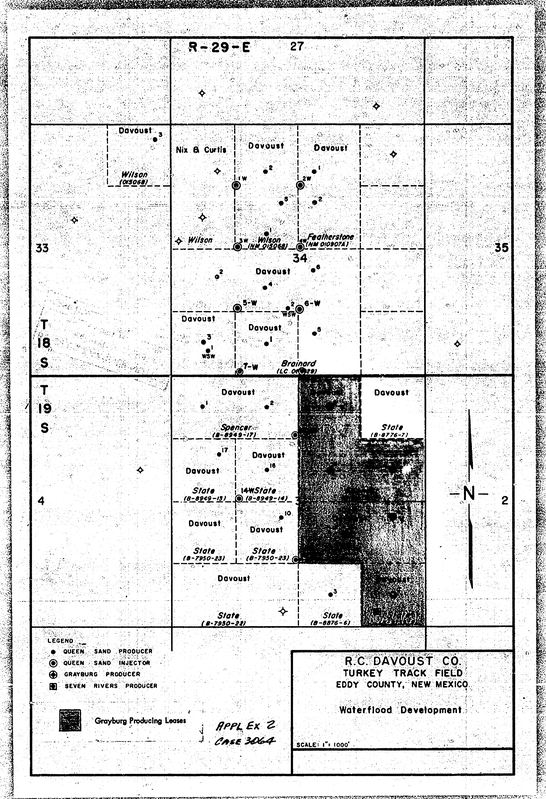

COMPANY STANTON OIL COMPANY
WELL SPENCER STATE # 12-W
FIELD TURKEY TRACK
COUNTY COUNTY STATE NEW MEXICO
GAMMA RAY
POROSITY
DEPTHS
LATEROLOG POROSITY
CONDUCTIVITY
2400
2300
2200
2100
2000


2200
2100
2000
1900
F. R.
500
0
CONDUCTIVITY
MILLIMHOS/M
DEPTHS
LATEROLOG POROSITY
PER CENT
20
15
10
5
0
1.2 Rw
.8 Rw
.6 Rw
Rw = 0.16
RESISTIVITY
OHMS M²/M
MICROLATEROLOG POROSITY
Rmf /Rw 3.7
.8 Rmf
1.0 Rmf
2000
1900
1800
1700

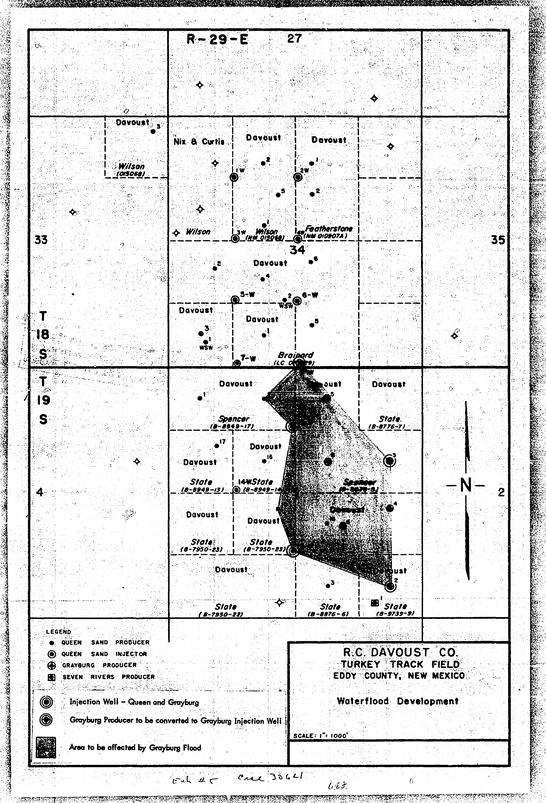

SEND PAYMENT AND
V.A.N.C.F. MICROGRAPHICS


3-80-GWH 03824107
CALIBRATION DATA
COMPANY STANTON OIL COMPANY
WELL SPENCER STATE #12-W
FIELD TURKEY TRACK
COUNTY EDDY STATE NEW MEXICO
RESISTIVITY
MICROLATEROLOG POROSITY
DEPTHS
2500
2400
2300
2200
2100
2000


V.R.A.G.P. MICROFILMED
LOG FACTUAL COPY



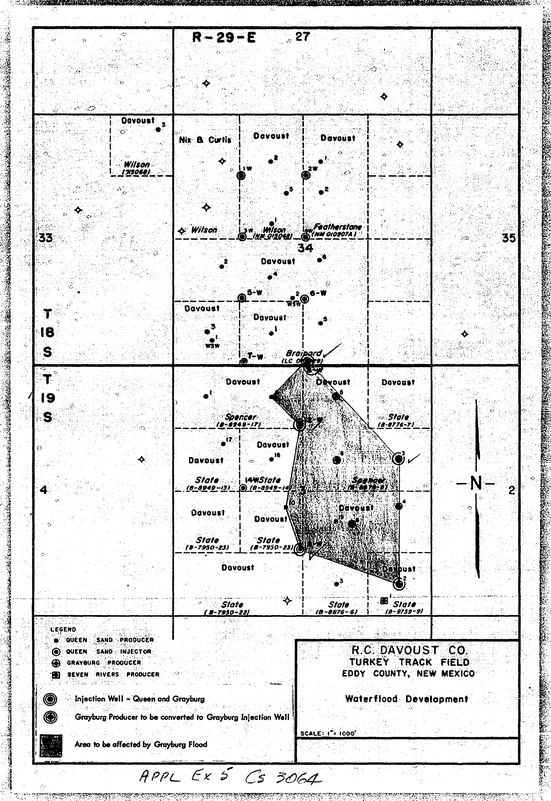
V.N.M.C.F. MICROGRAPHICS
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Exh. # C Case 3866-1

6-27

N.M.O.C.D. MICROGRAPHICS
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APPL Ex 5 Cs 3064

N.M.O.C.D. MICROGRAPHICS
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