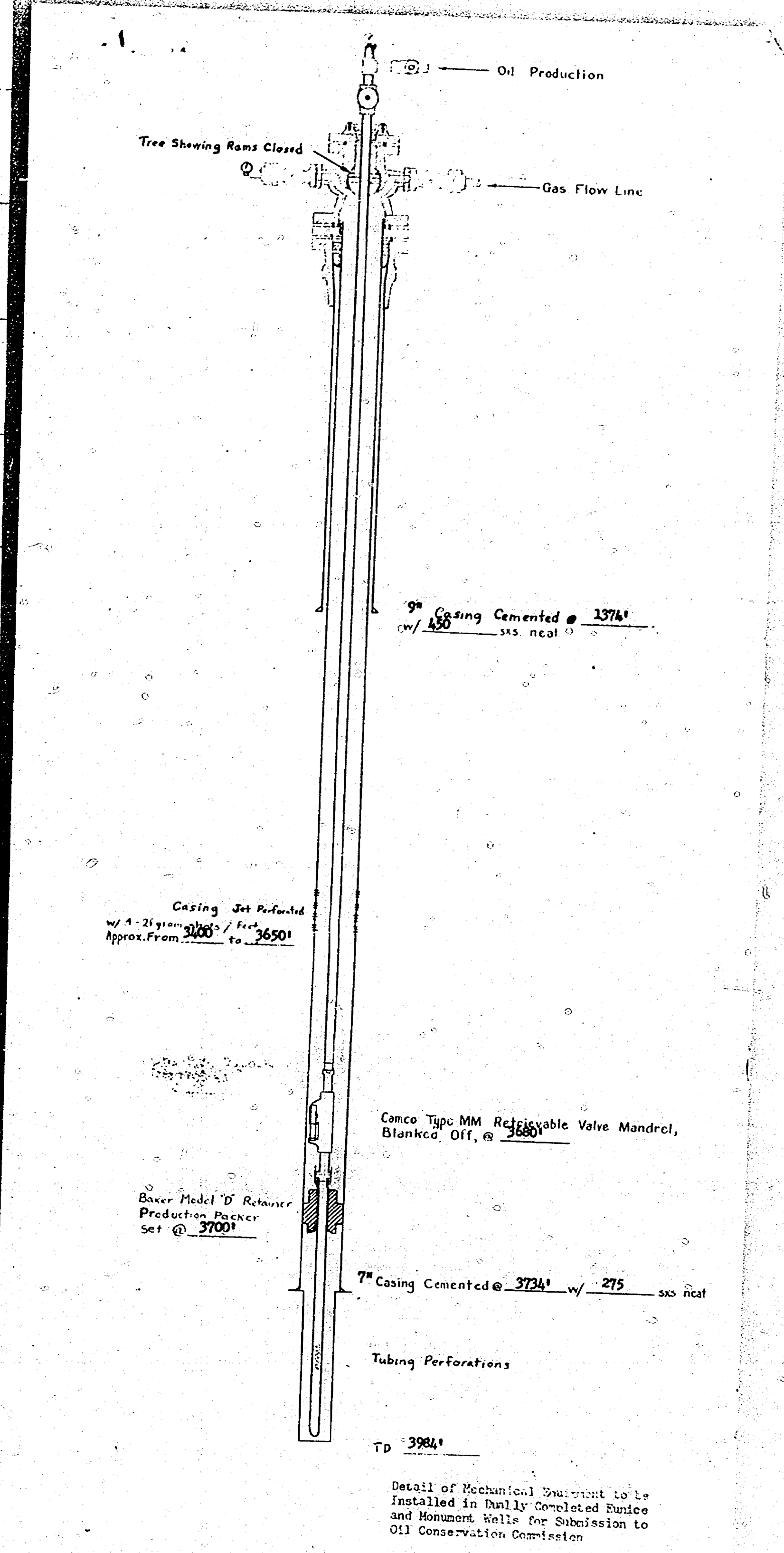
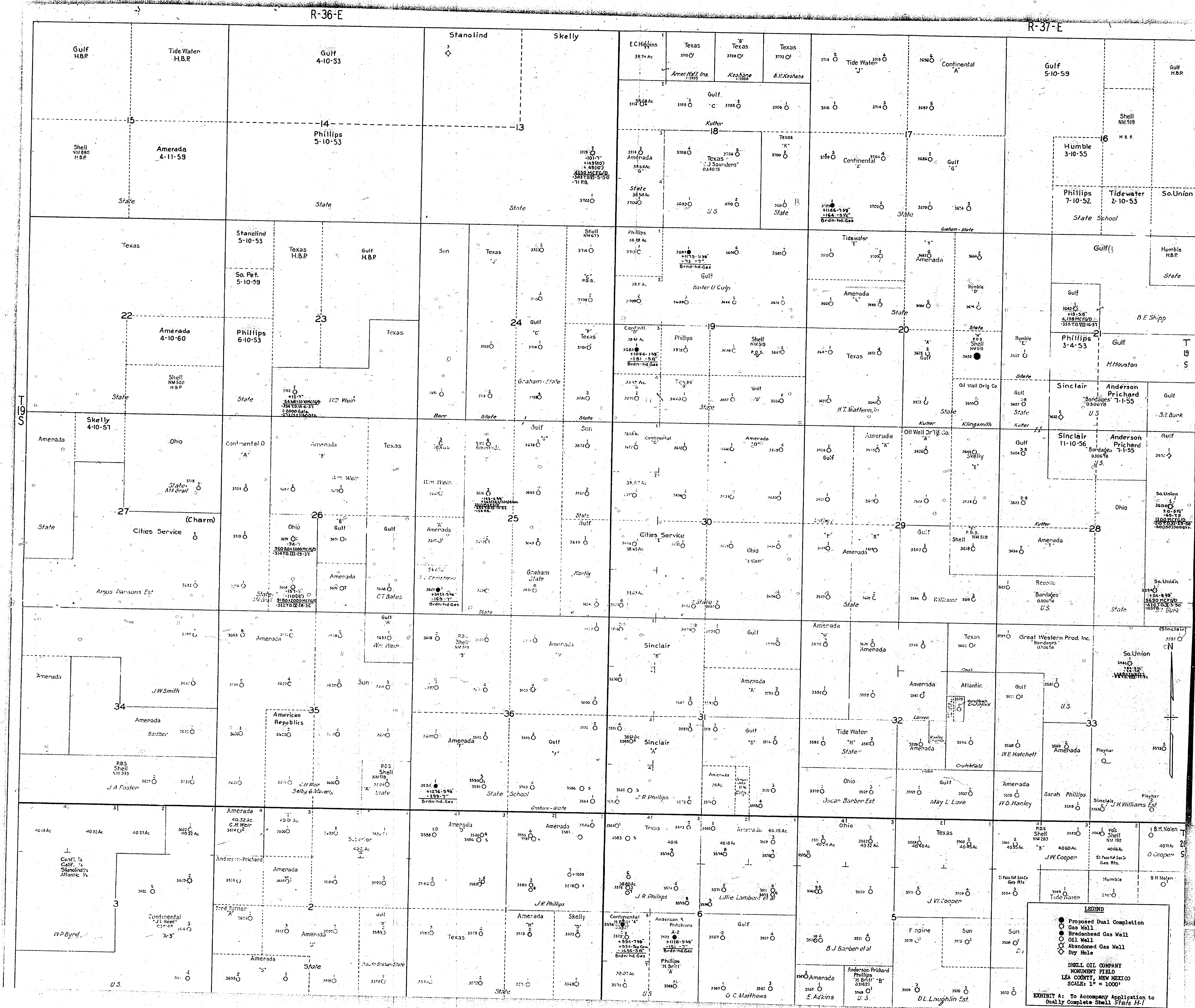


Case No.

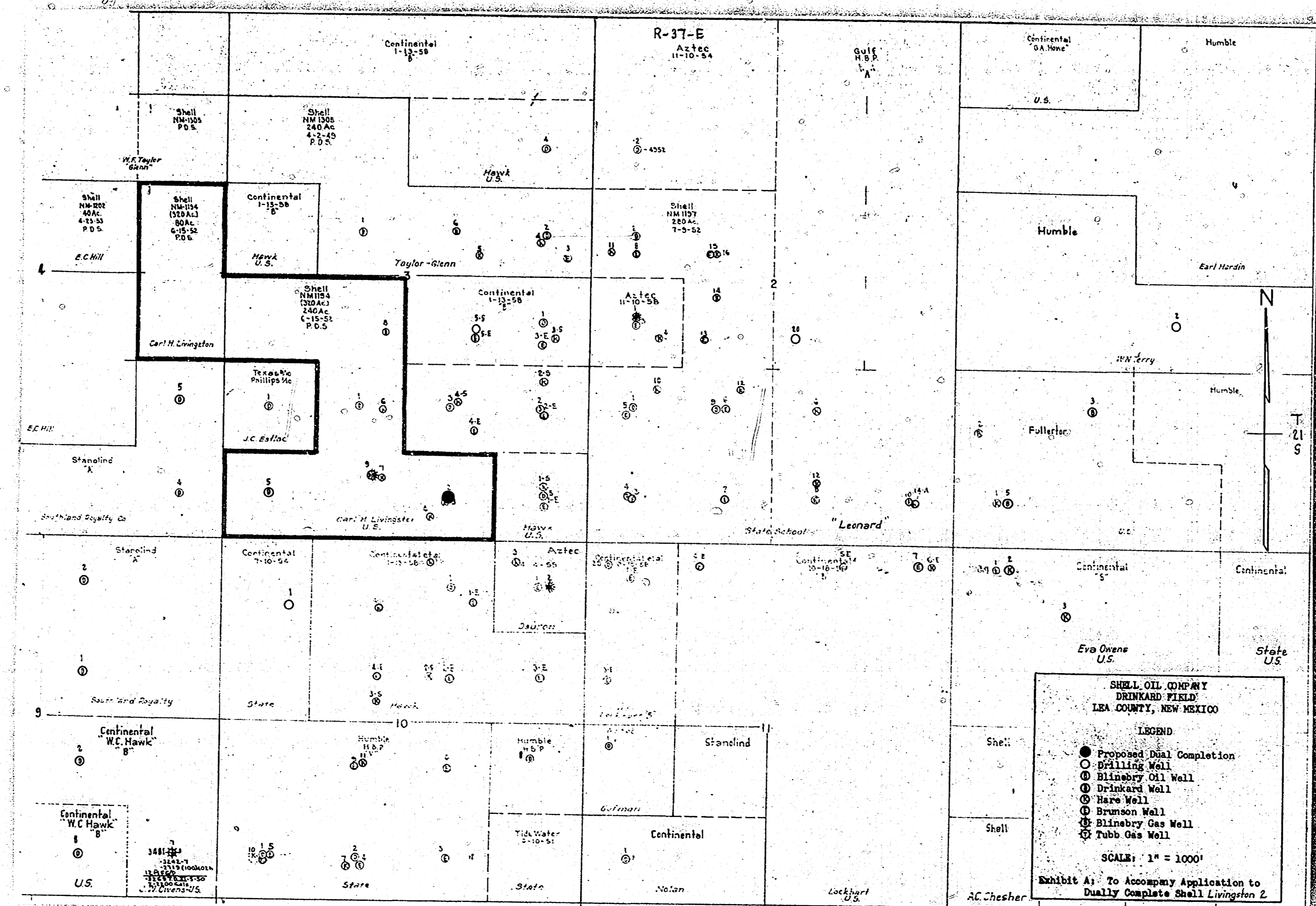
484

Large Exhibits

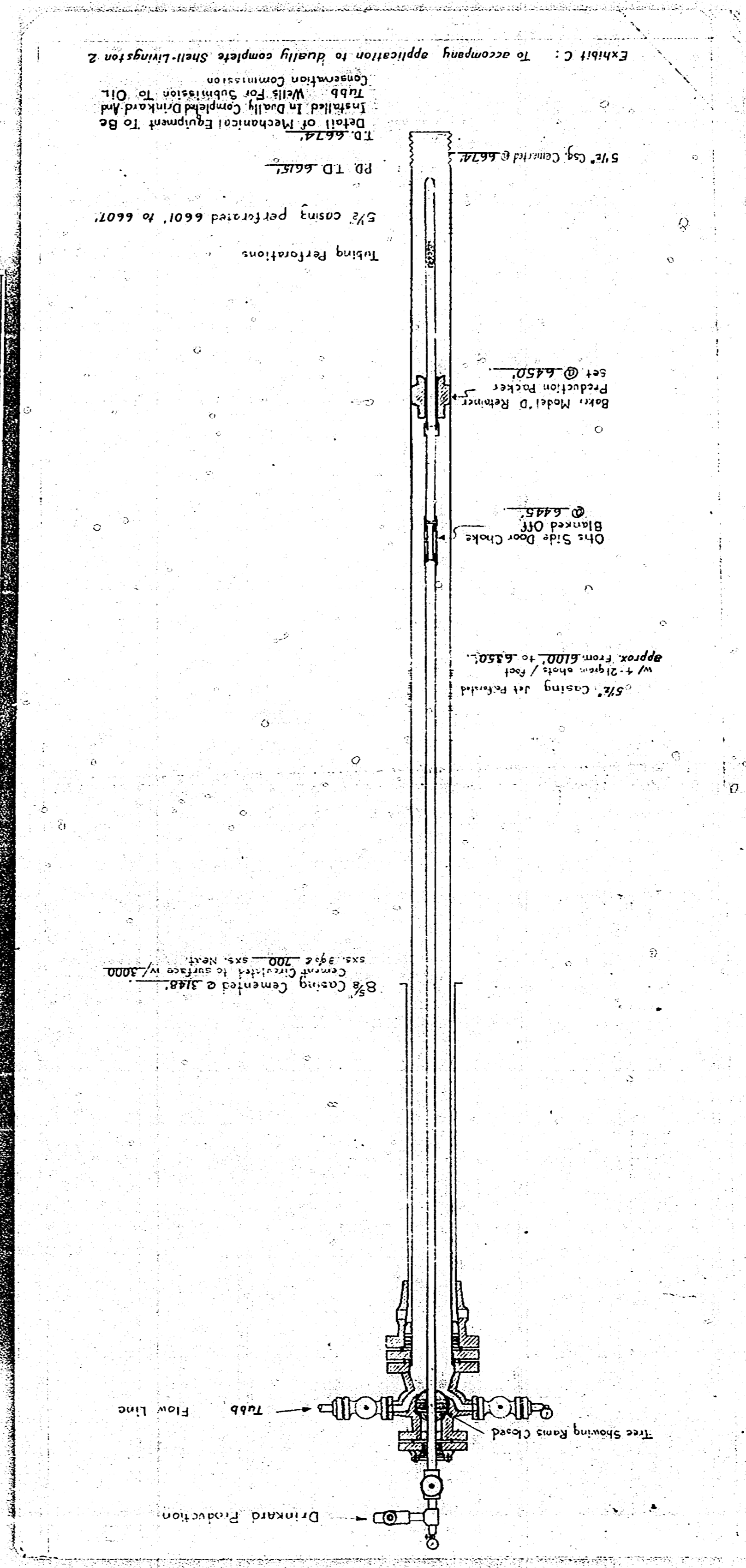


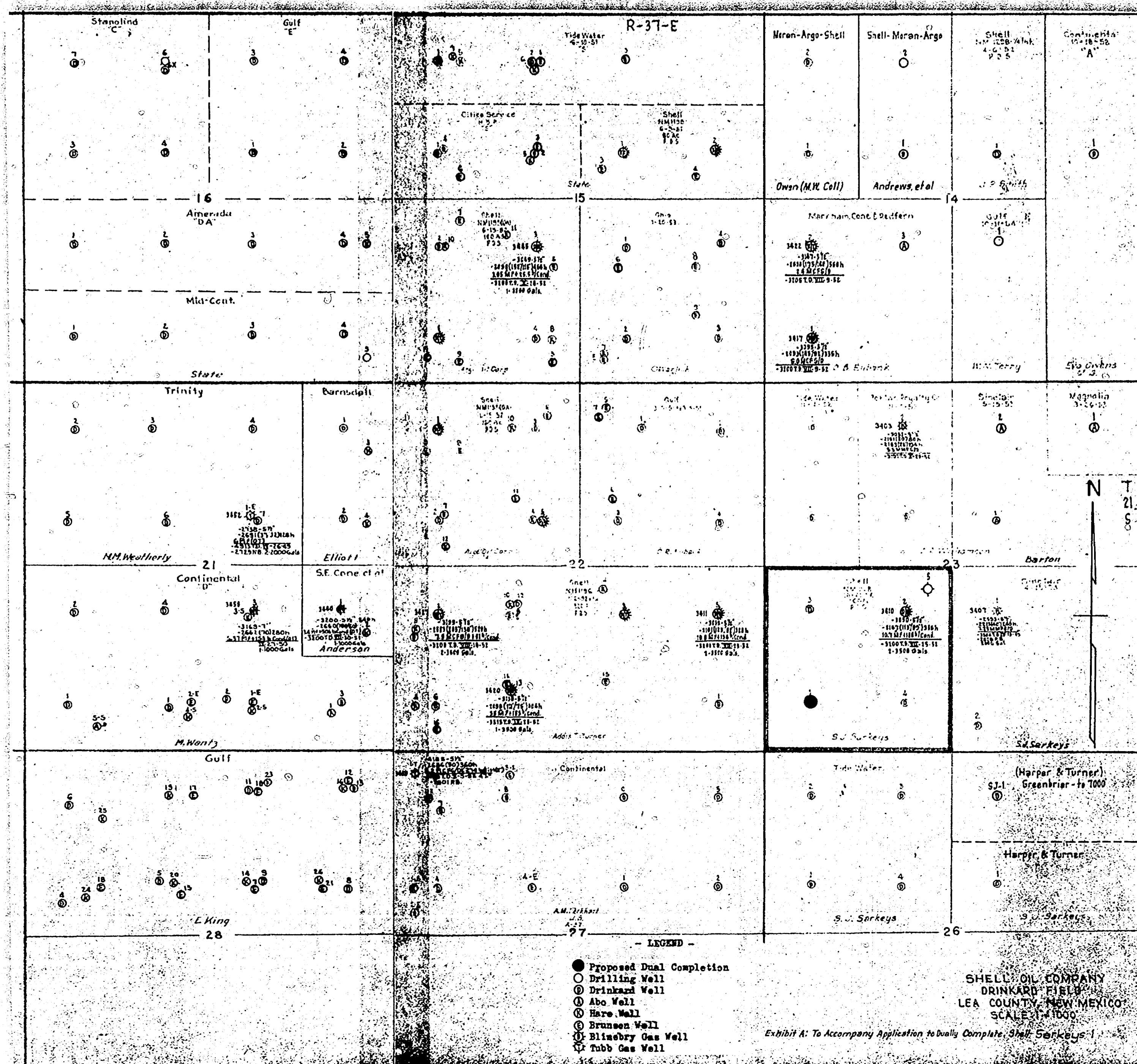
319

EXHIBIT C - To Accompany Application to Fully Complete Shell State No. 1, Monument Field

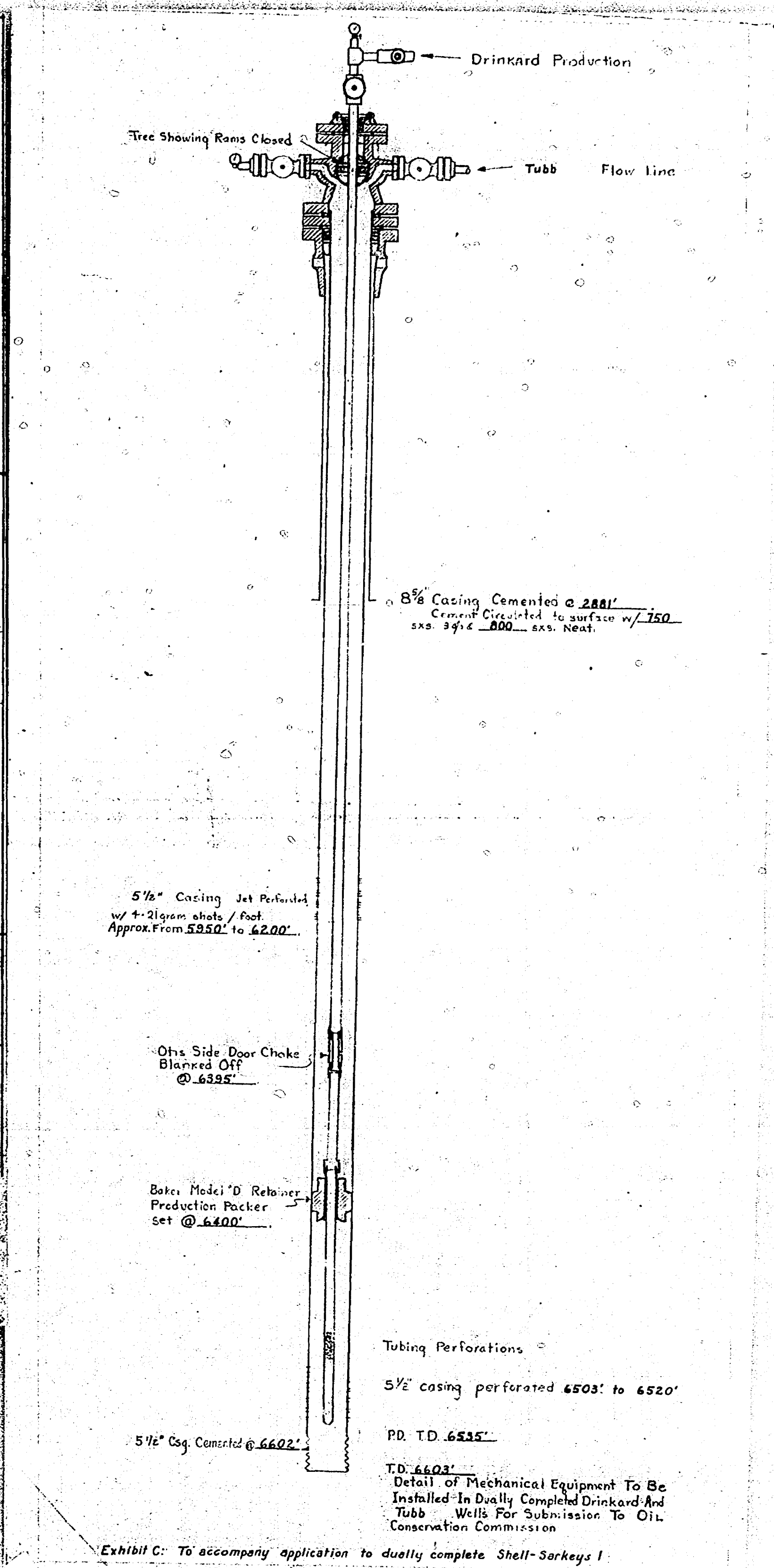


320





321



Tubing Perforations
 5 1/2" casing perforated 4803' to 4820'
 PD. TD. 4825'
 T.D. 4603'
 Detail of Mechanical Equipment to be Installed in Drilling Completion and Tubing Wells For Submission To Oil Conservation Commission

Exception to Adv.

322

Case 490 (a)

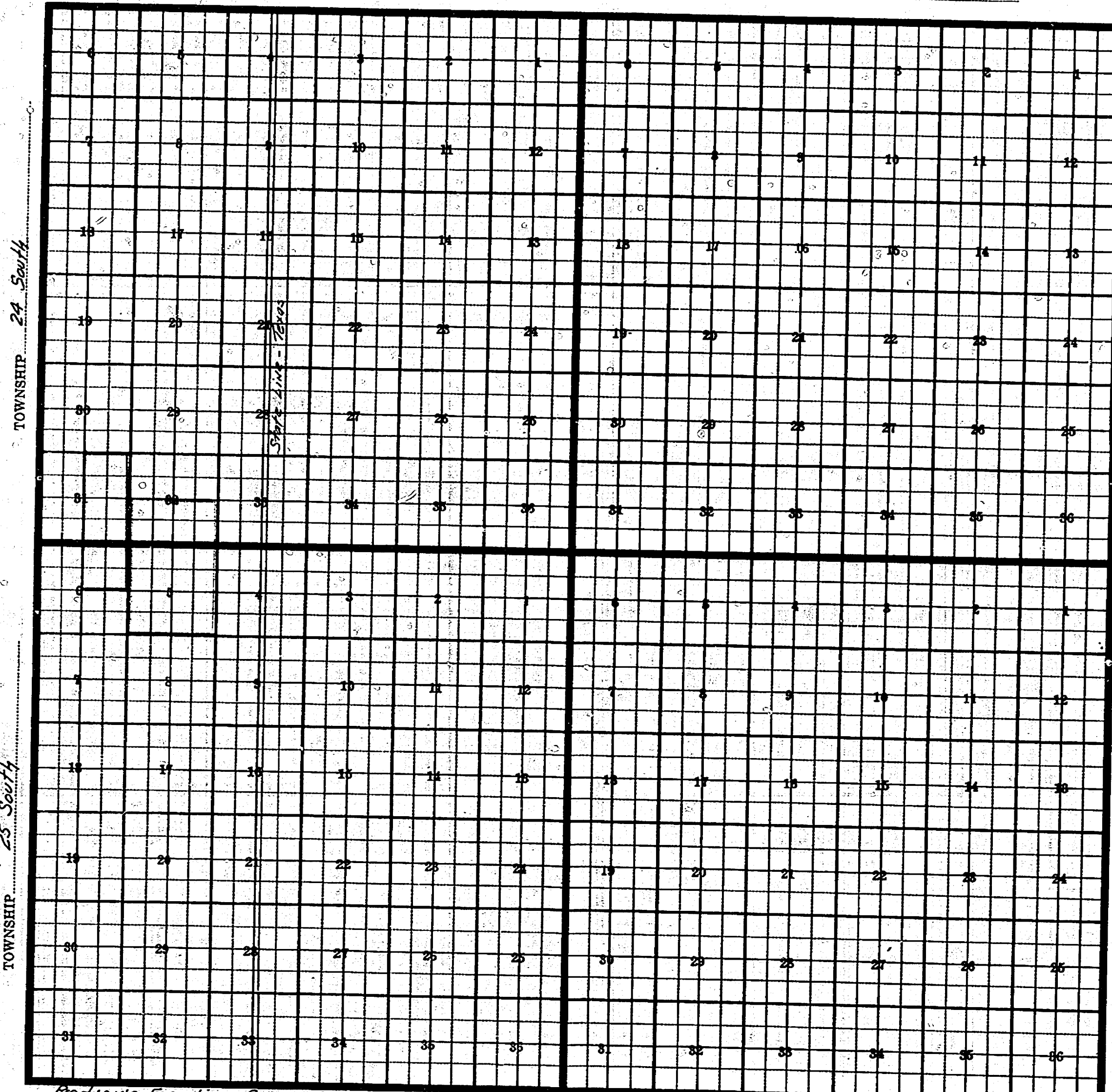
West. Delaware Queen

COUNTY Lea

STATE _____

RANGE 38 East

RANGE _____



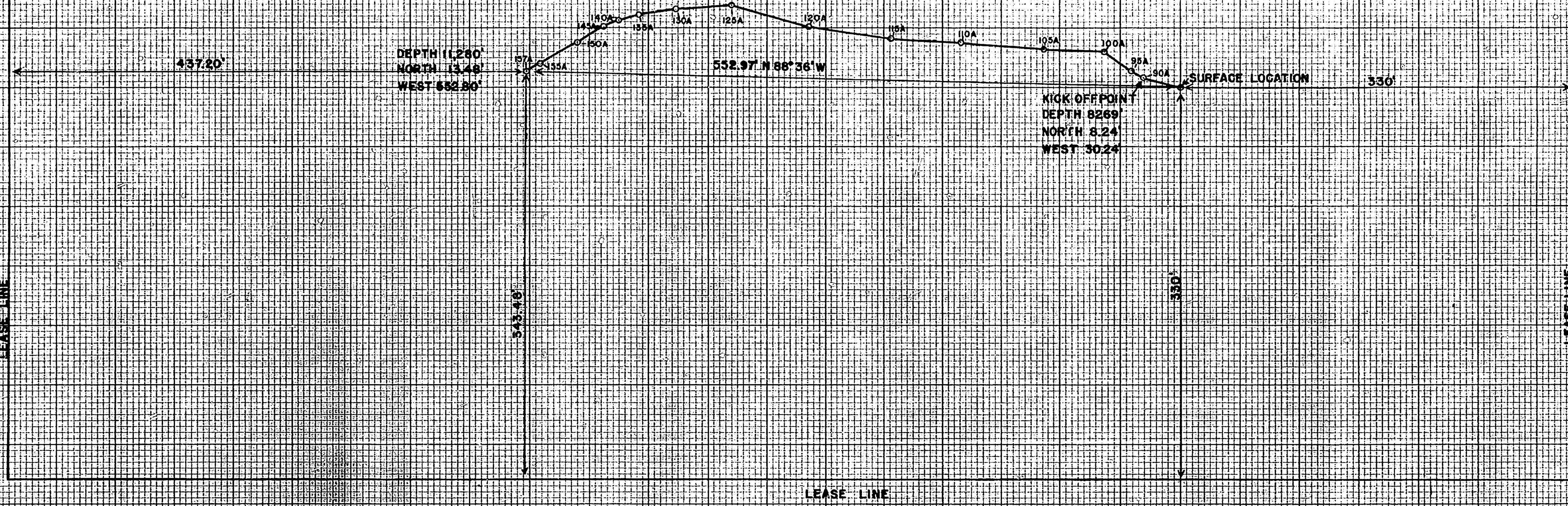
Producing Exception: None
Proposed Section: 38 Sec. 32, T. 24 S., R. 38 E., and All Sec. 5
Purpose: To provide Survey Oil Co. with 1/2 Sec. 32, Sec. 5
1/2 Sec. 38 E. and E.H. Williams / Nelson R. Lewis
Texas: None N. K., Sec. 5, T. 25 S., R. 38 E.

Form 100-Printed and For Sale by Hall-Forbush Press, Newark, New Mexico

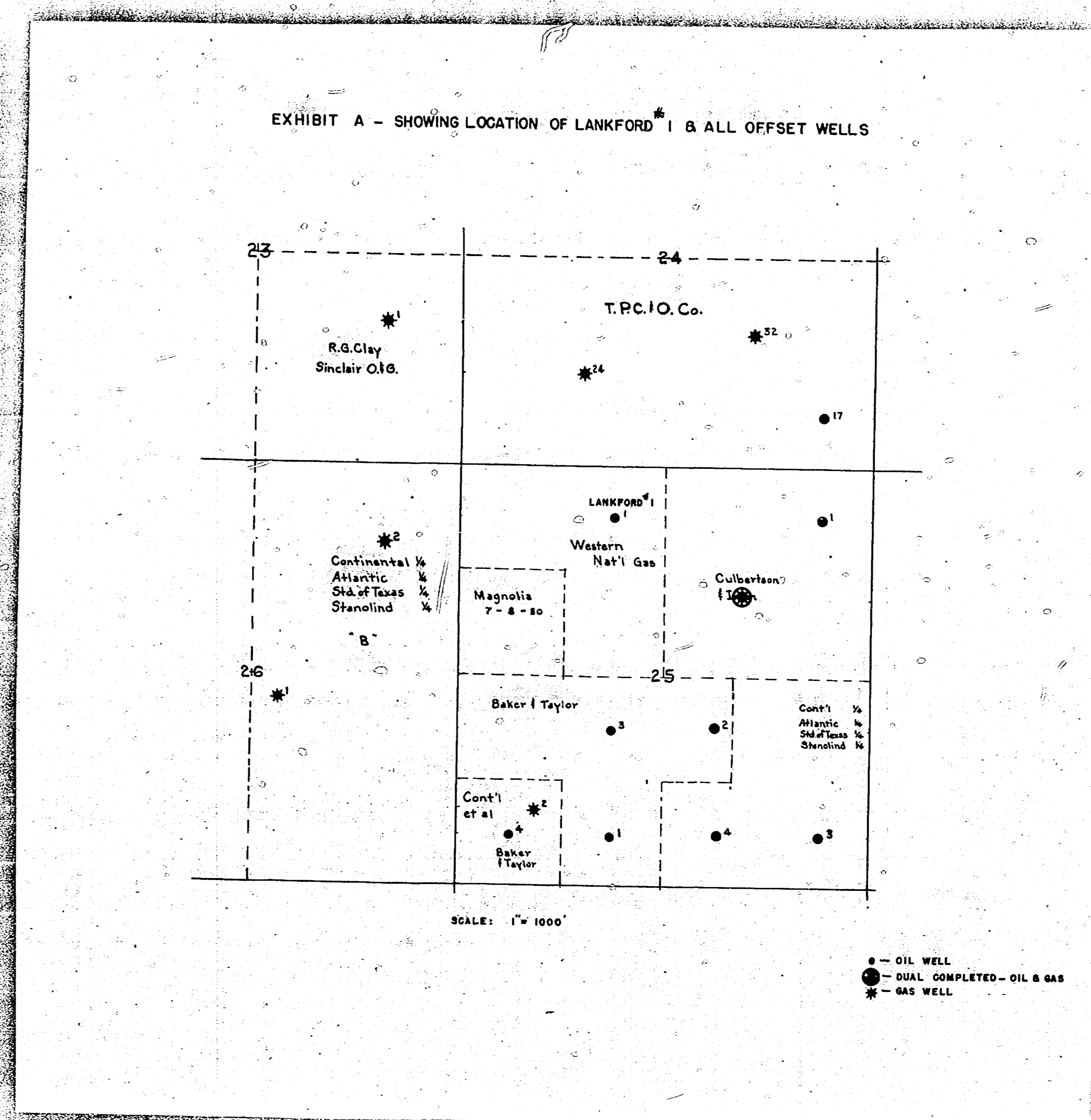
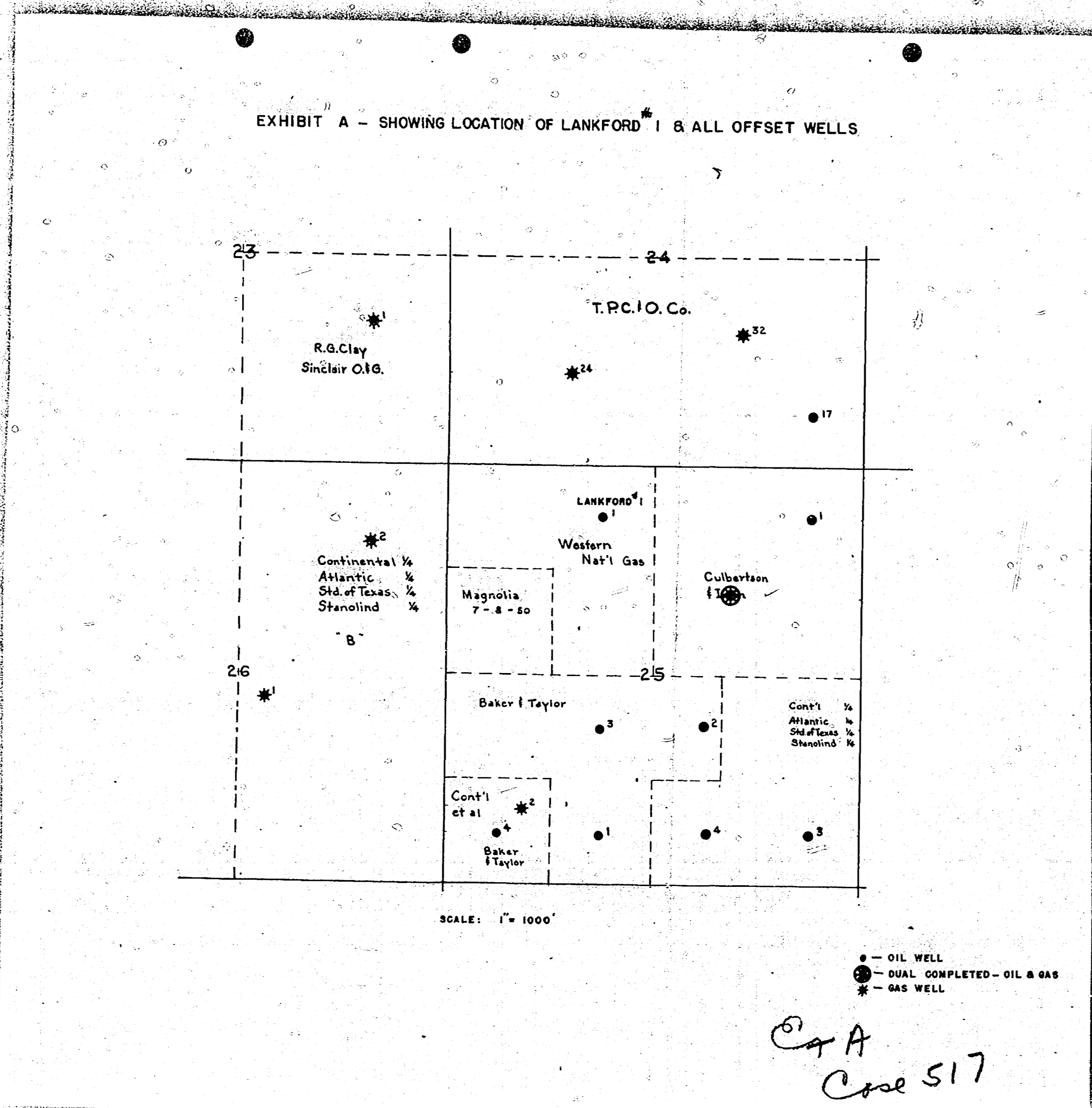
TELEPHONIC CROSS SECTION 10110
CLEARING HOUSE CO.
MADE IN U.S.A.

TELEPHONIC CROSS SECTION 10110
CLEARING HOUSE CO.
MADE IN U.S.A.

SKELLY OIL COMPANY
MEXICO T^M N² 1
EAST CARROCK FIELD, N. M.
SCALE
1" = 50'

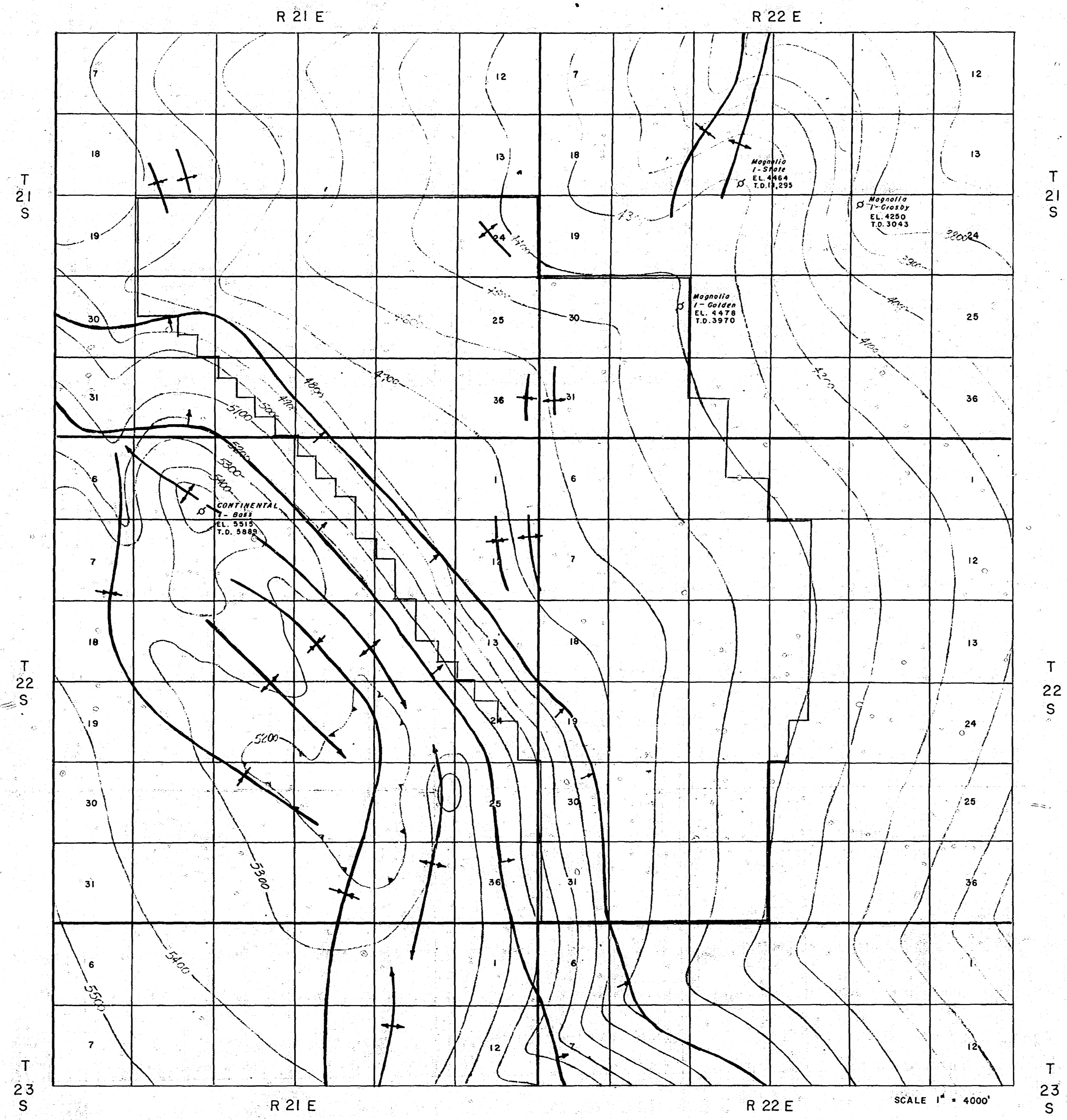


323



324

325



EAST TEXAS HILL

EDDY CO. NEW MEXICO

CONTOURS ON SAN ANDRES

CONTOUR INTERVAL-100'

..... GEOPHOTO SYMBOLS

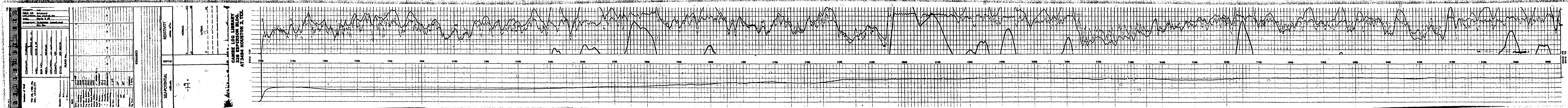
—+— ANTICLINE, PLUNGING

—+— SYNCLINE, PLUNGING

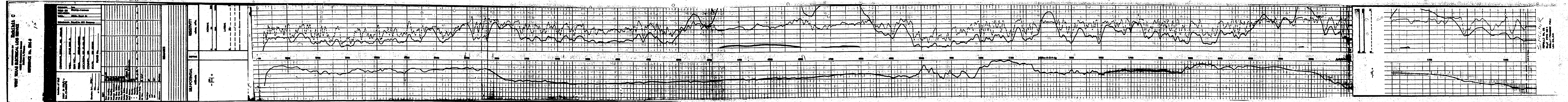
—+— MONOCLINAL FLEXURE

— UNIT OUTLINE

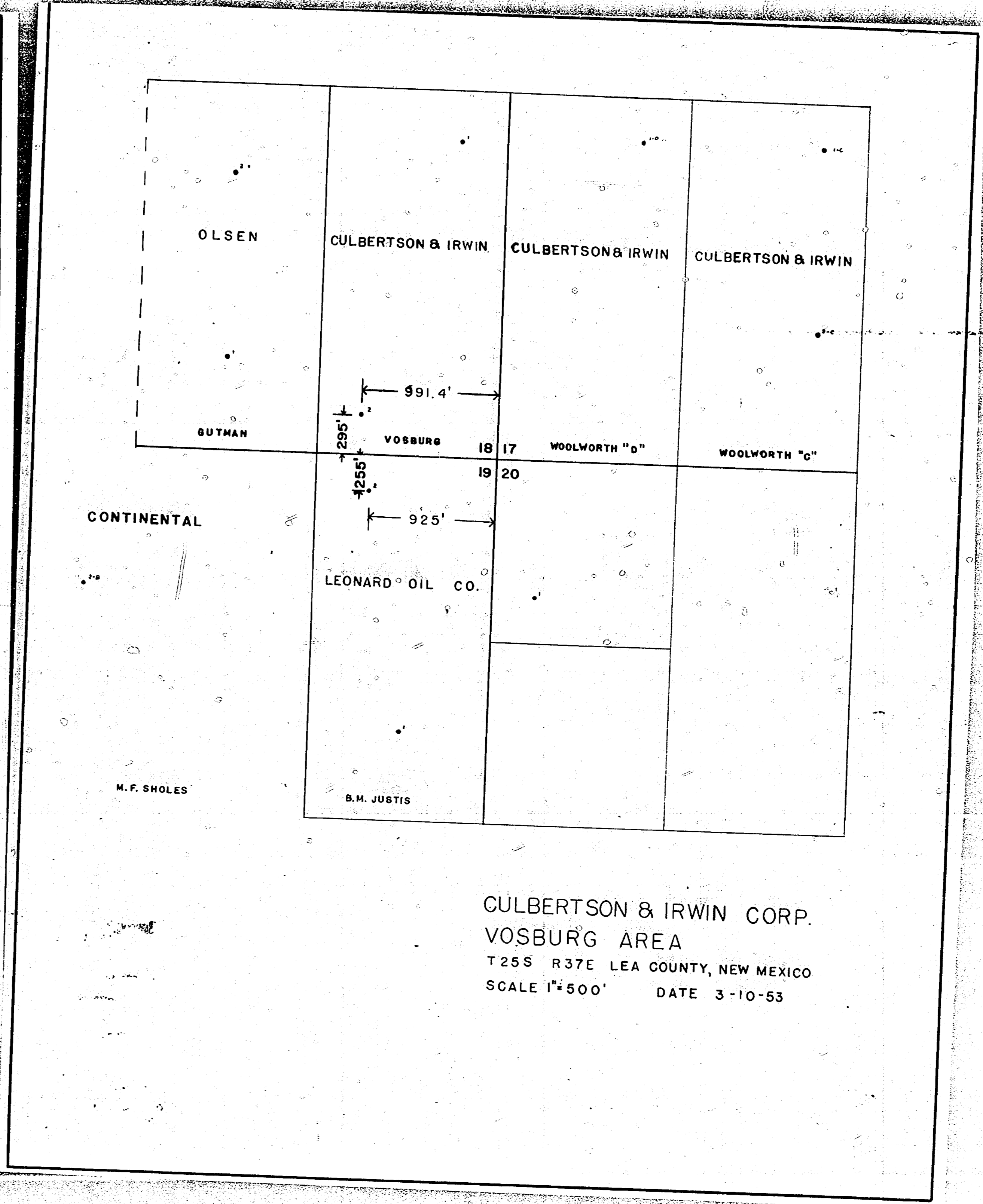
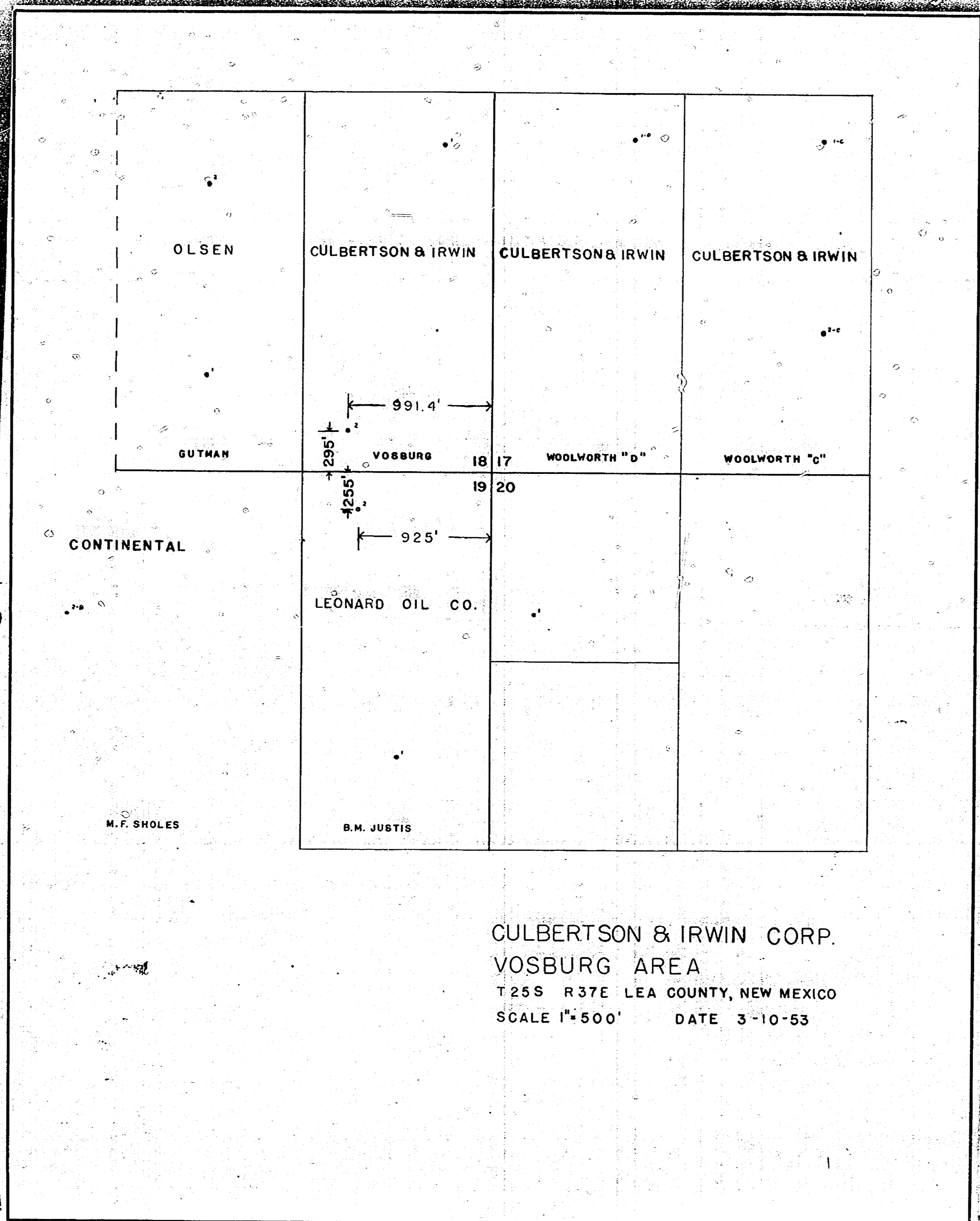
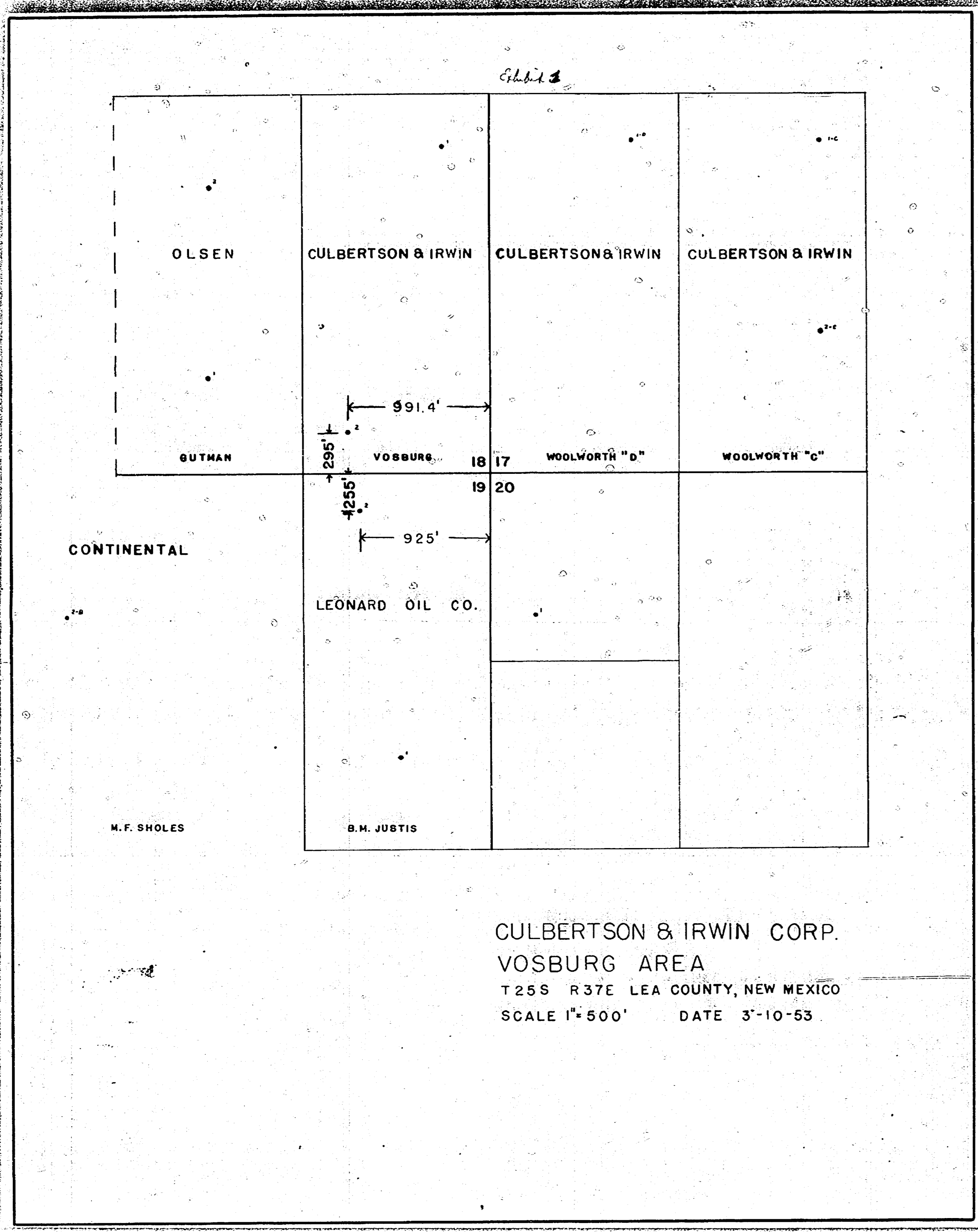
EXHIBIT "A"
2-23-53



326



327

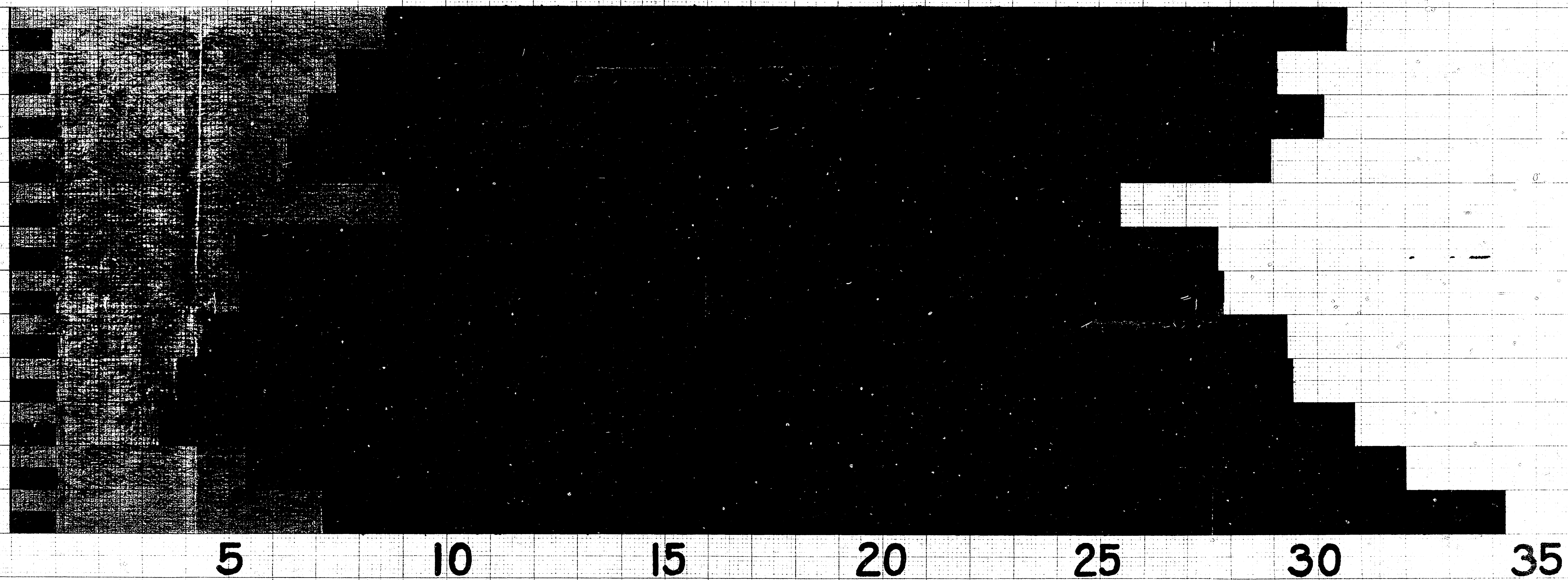


328

EL PASO NATURAL GAS COMPANY GAS PURCHASES FROM PERMIAN BASIN AREA

1952

JAN.
FEB.
MAR.
APR.
MAY
JUNE
JULY
AUG.
SEPT.
OCT.
NOV.
DEC.



GAS VOLUME IN BILLION CU. FT.

- RESIDUE GAS PURCHASES FROM PERMIAN BASIN AREA
- DRY GAS PURCHASES FROM LEA COUNTY, NEW MEXICO
- DRY GAS PURCHASES FROM MARGINAL WELLS, LEA COUNTY, NEW MEXICO

15,025 P.B.

330

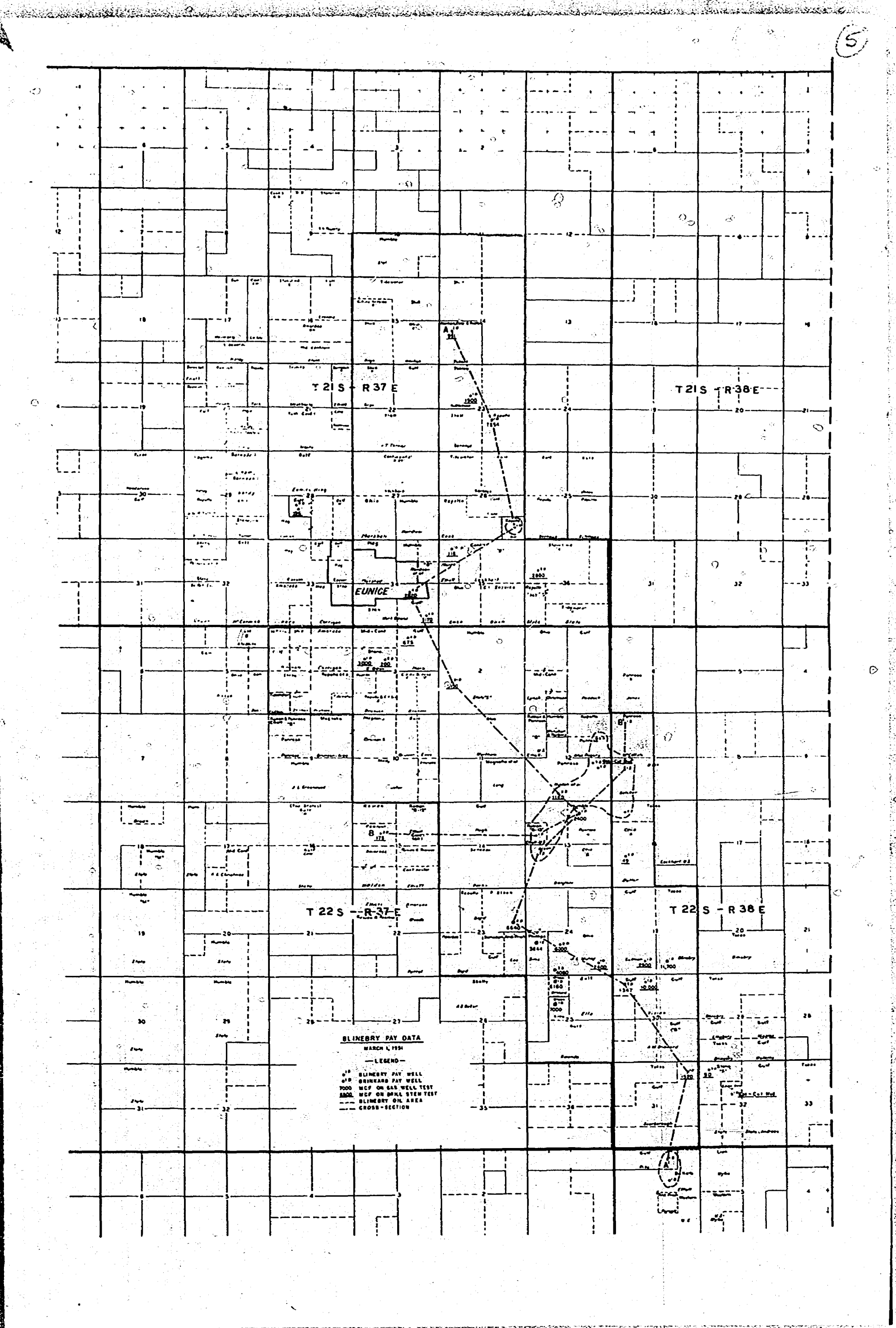
330

| | <u>MM</u> TOTAL GAS PURCHASED | <u>MM</u> TOTAL RESERVE GAS PURCHASED | <u>MM</u> \$ NEW MEXICO RESERVE GAS TO TOTAL RESERVE GAS | <u>MM</u> TOTAL LEA COUNTY DRY GAS | <u>MM</u> \$ LEA COUNTY DRY GAS TO TOTAL GAS |
|-----------------|----------------------------------|---|--|--|--|
| January, 1952 | 30,690,151 | 22,048,159 | 36.12 % | 8,642,292 | 28.15 % |
| February, 1952 | 29,076,735 | 21,568,063 | 36.56 % | 7,512,672 | 25.83 % |
| March, 1952 | 30,158,266 | 23,315,275 | 36.86 % | 6,839,671 | 22.68 % |
| April, 1952 | 28,950,084 | 22,571,400 | 33.66 % | 6,378,280 | 22.03 % |
| May, 1952 | 25,373,632 | 16,432,777 | 39.52 % | 6,840,655 | 35.23 % |
| June, 1952 | 27,723,752 | 22,582,601 | 33.61 % | 5,181,151 | 18.68 % |
| July, 1952 | 27,855,236 | 22,598,531 | 33.21 % | 5,256,705 | 18.87 % |
| August, 1952 | 29,336,113 | 24,760,290 | 33.97 % | 4,593,823 | 15.66 % |
| September, 1952 | 29,476,263 | 25,667,276 | 31.89 % | 3,806,987 | 12.91 % |
| October, 1952 | 30,853,545 | 27,151,165 | 32.22 % | 3,399,380 | 11.01 % |
| November, 1952 | 32,026,079 | 26,616,783 | 31.58 % | 5,109,336 | 16.89 % |
| December, 1952 | 36,295,500 | 27,110,551 | 32.35 % | 7,153,009 | 20.85 % |

EPNG Co Exhibit 3 Case 521

Handwritten note: 25%

| | <u>MM</u> TOTAL GAS PURCHASED | <u>MM</u> TOTAL RESERVE GAS PURCHASED | <u>MM</u> \$ NEW MEXICO RESERVE GAS TO TOTAL RESERVE GAS | <u>MM</u> TOTAL LEA COUNTY DRY GAS | <u>MM</u> \$ LEA COUNTY DRY GAS TO TOTAL GAS |
|-----------------|----------------------------------|---|--|--|--|
| January, 1952 | 31,690,151 | 22,048,159 | 36.12 % | 8,642,292 | 28.15 % |
| February, 1952 | 29,076,735 | 21,568,063 | 36.56 % | 7,512,672 | 25.83 % |
| March, 1952 | 30,158,266 | 23,315,275 | 36.86 % | 6,839,671 | 22.68 % |
| April, 1952 | 28,950,084 | 22,571,400 | 33.66 % | 6,378,280 | 22.03 % |
| May, 1952 | 25,373,632 | 16,432,777 | 39.52 % | 6,840,655 | 35.23 % |
| June, 1952 | 27,723,752 | 22,582,601 | 33.61 % | 5,181,151 | 18.68 % |
| July, 1952 | 27,855,236 | 22,598,531 | 33.21 % | 5,256,705 | 18.87 % |
| August, 1952 | 29,336,113 | 24,760,290 | 33.97 % | 4,593,823 | 15.66 % |
| September, 1952 | 29,476,263 | 25,667,276 | 31.89 % | 3,806,987 | 12.91 % |
| October, 1952 | 30,853,545 | 27,151,165 | 32.22 % | 3,399,380 | 11.01 % |
| November, 1952 | 32,026,079 | 26,616,783 | 31.58 % | 5,109,336 | 16.89 % |
| December, 1952 | 36,295,500 | 27,110,551 | 32.35 % | 7,153,009 | 20.85 % |



331

EL PASO NATURAL GAS COMPANY
DAILY DRY GAS PURCHASES, LEA COUNTY, NEW MEXICO
1952

DAILY GAS VOLUME IN MILLION CU.FT.
(15025 P.B.)

400
300
200
100
0

7 14 21 29

FEB.

7 14 21 31

JULY

7 14 21 31

OCT.

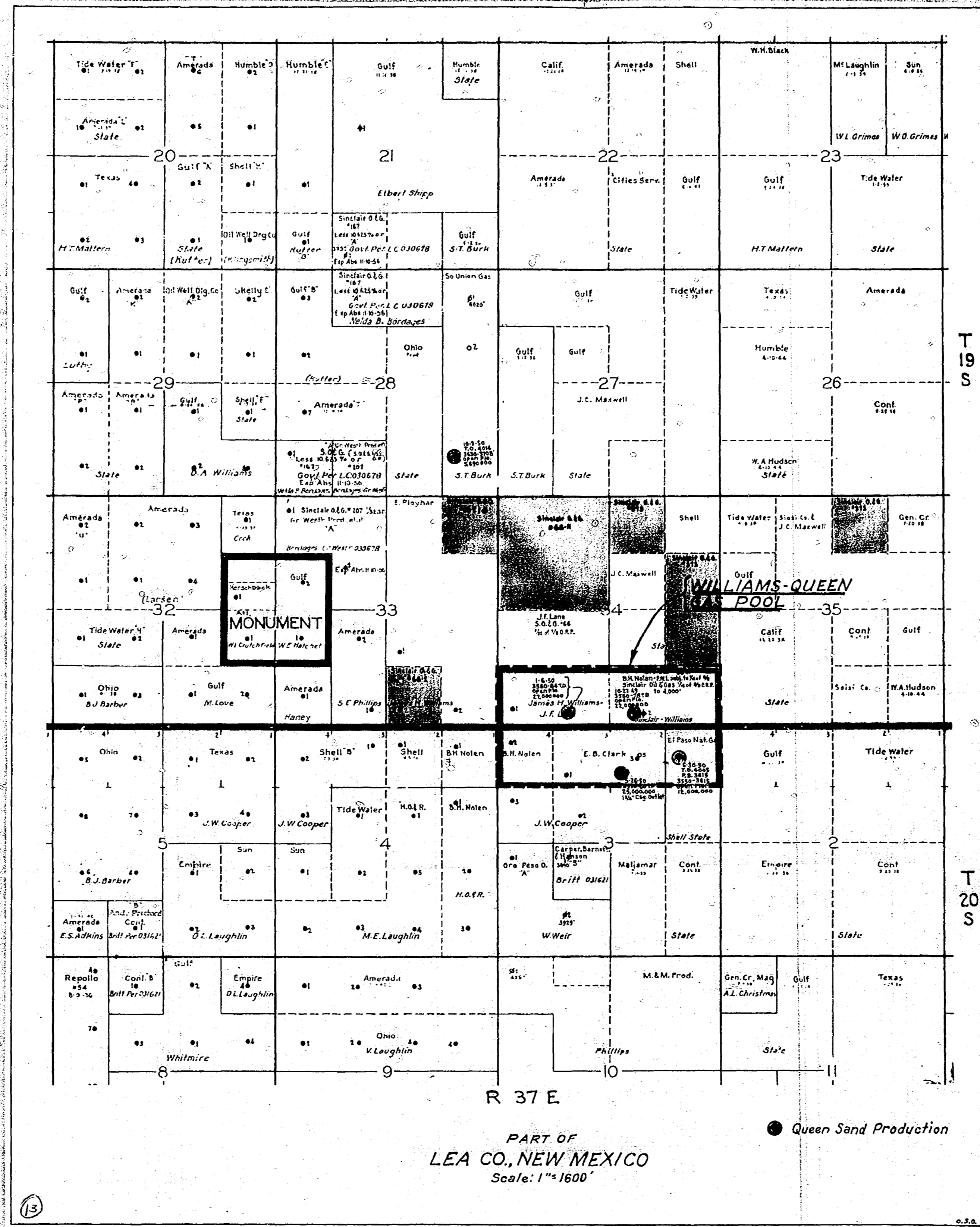
7 14 21 31

DEC.

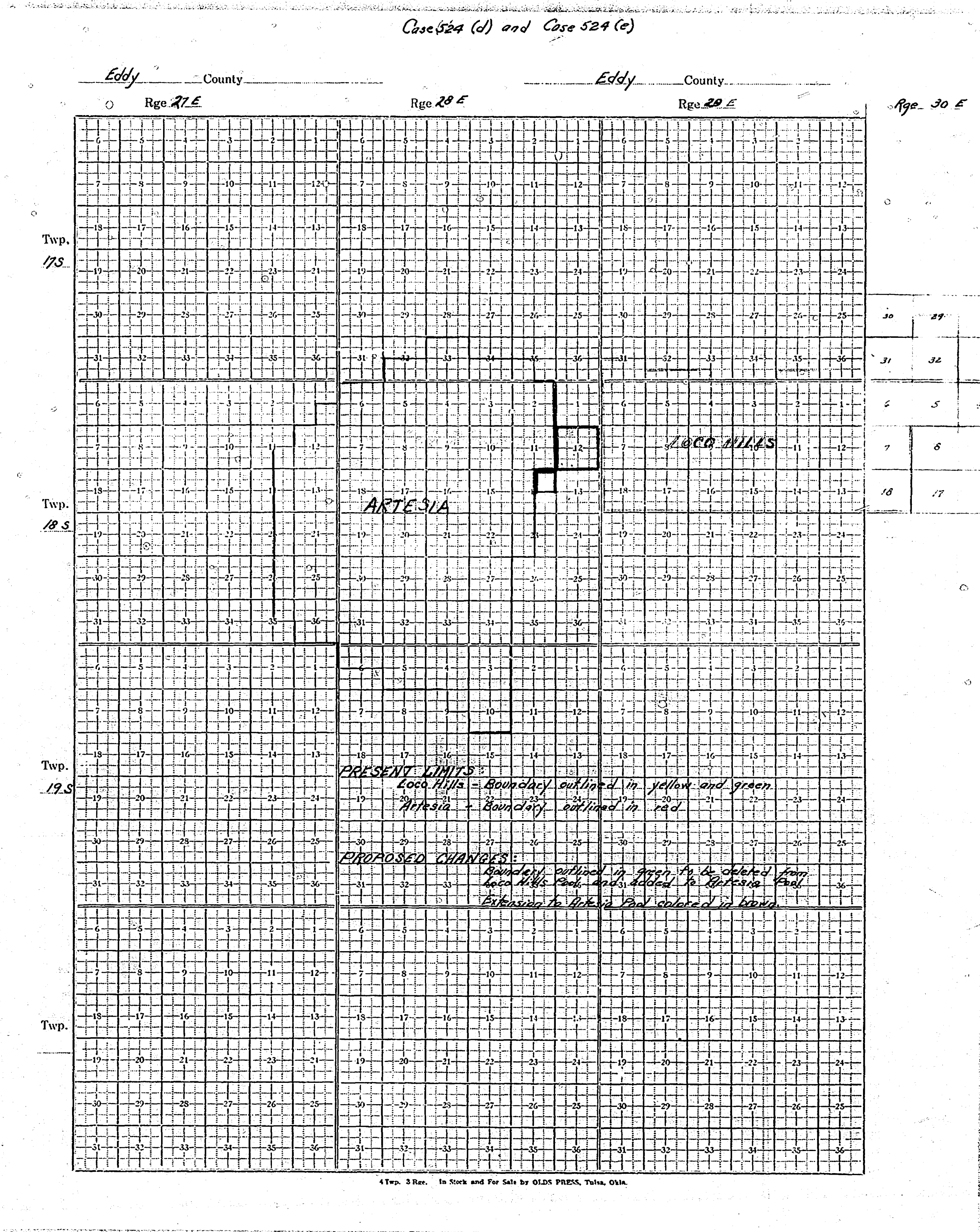
EPNG Co.
EXHIBIT 4

332

333



334

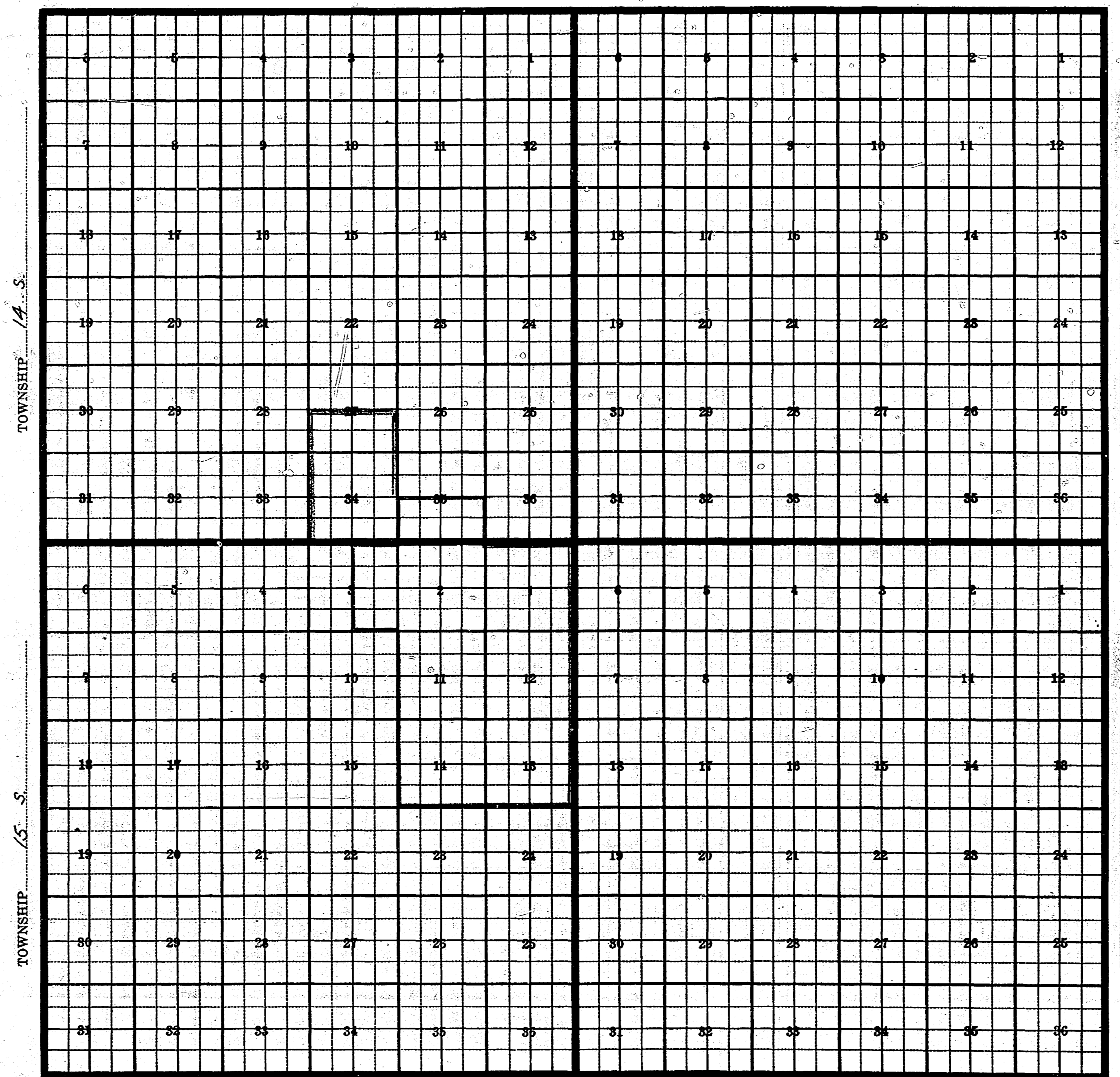


Case 531 (c)

COUNTY Lea
RANGE 37 E

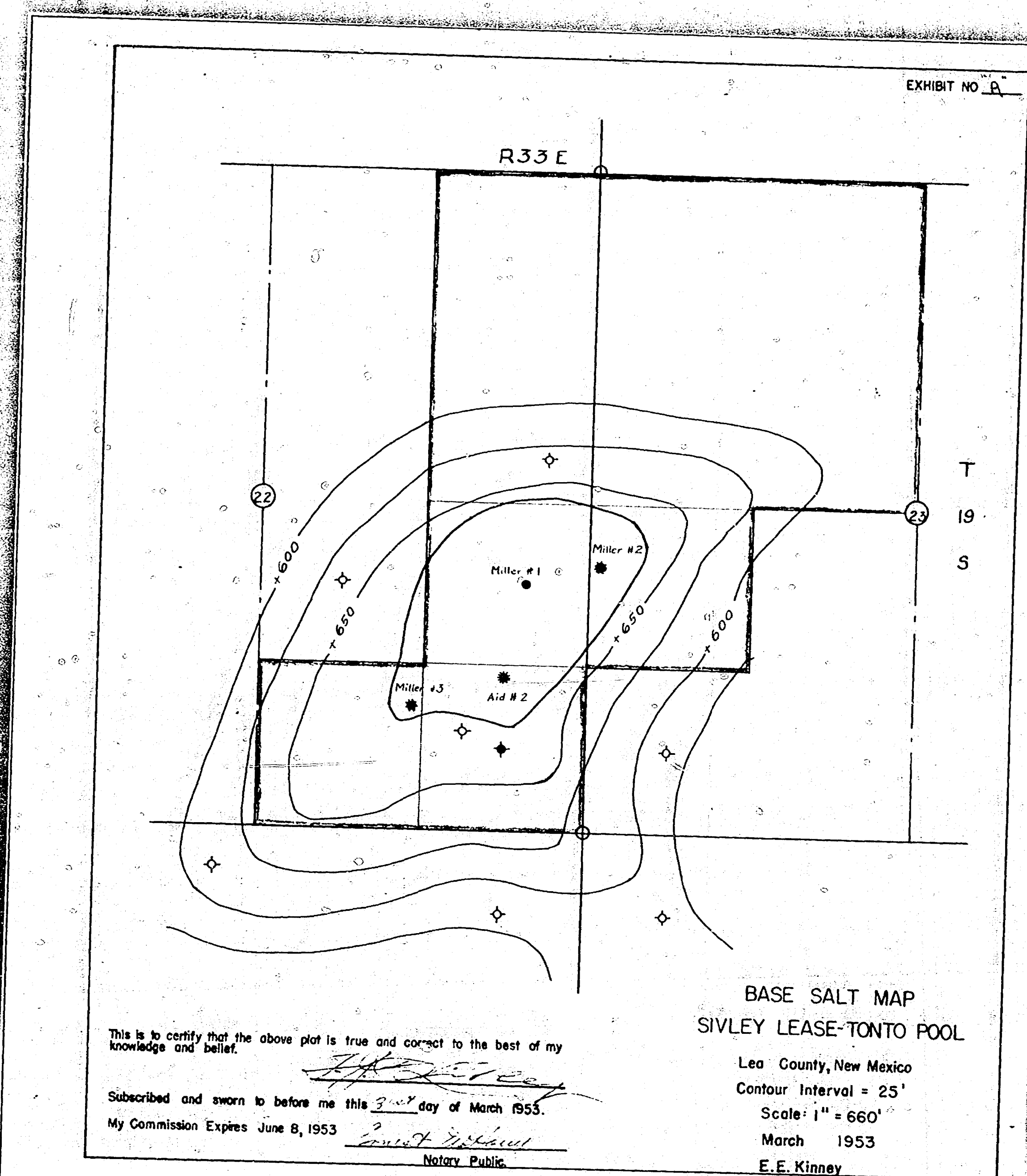
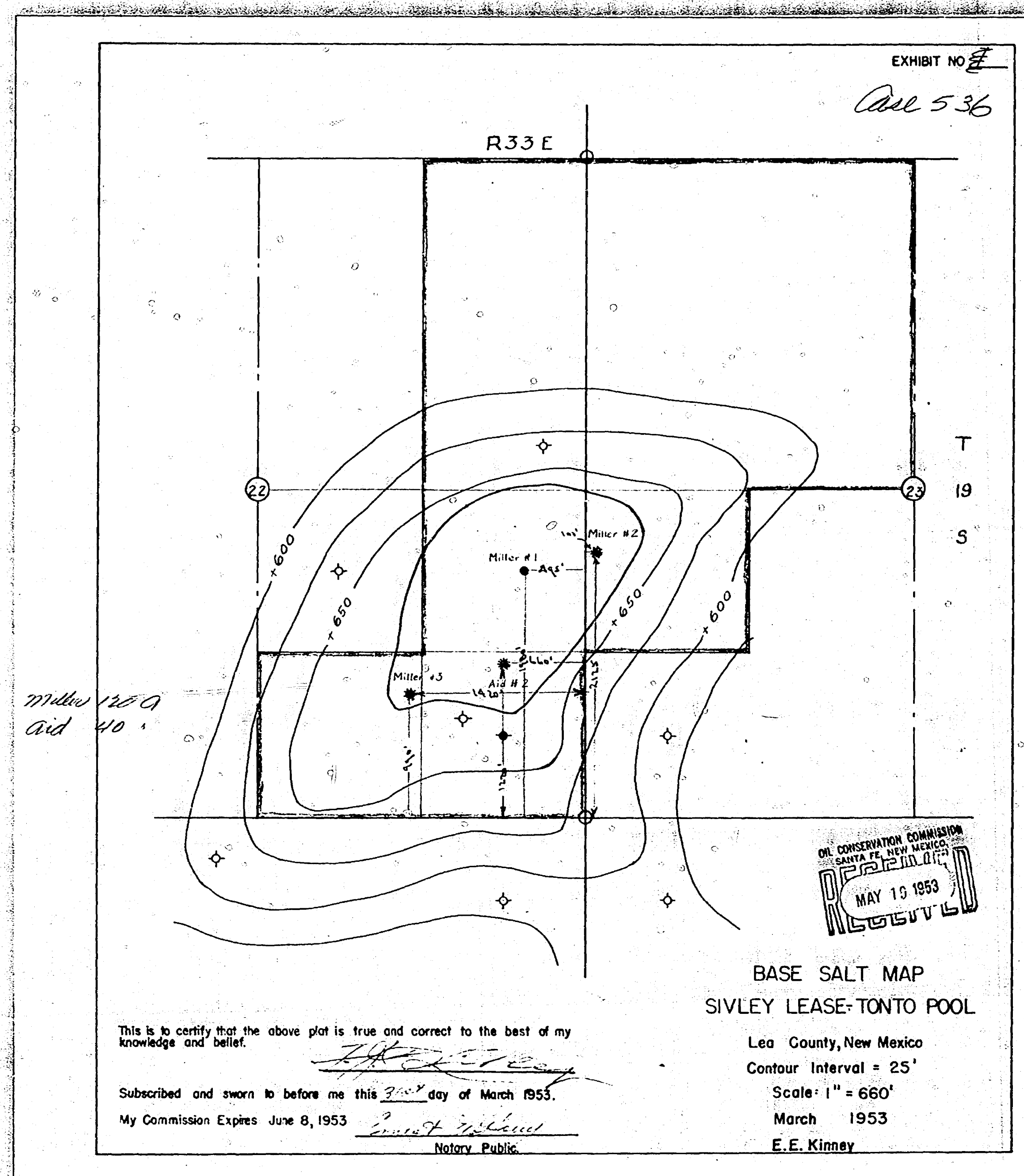
STATE _____
RANGE _____

335

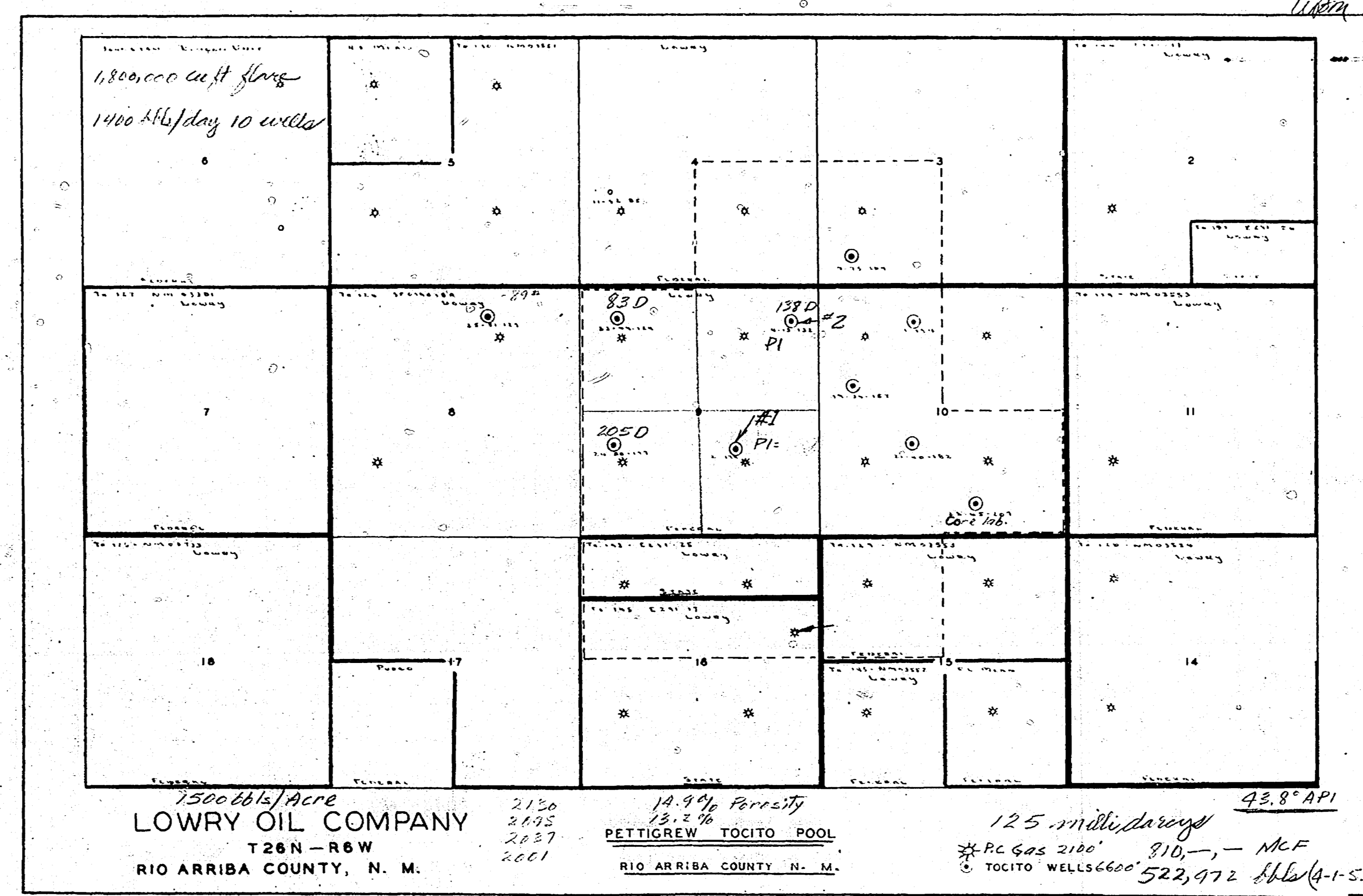


Producing Formation: Wolfcamp, D.P. 9-10
Purpose: To include Atlantic Refining Co., Federal Taxes #4, Unit P, Sec. 34, T. 14S, R. 37E.
Existing Boundary - Colored in Red
Proposed Extension - Colored in Green

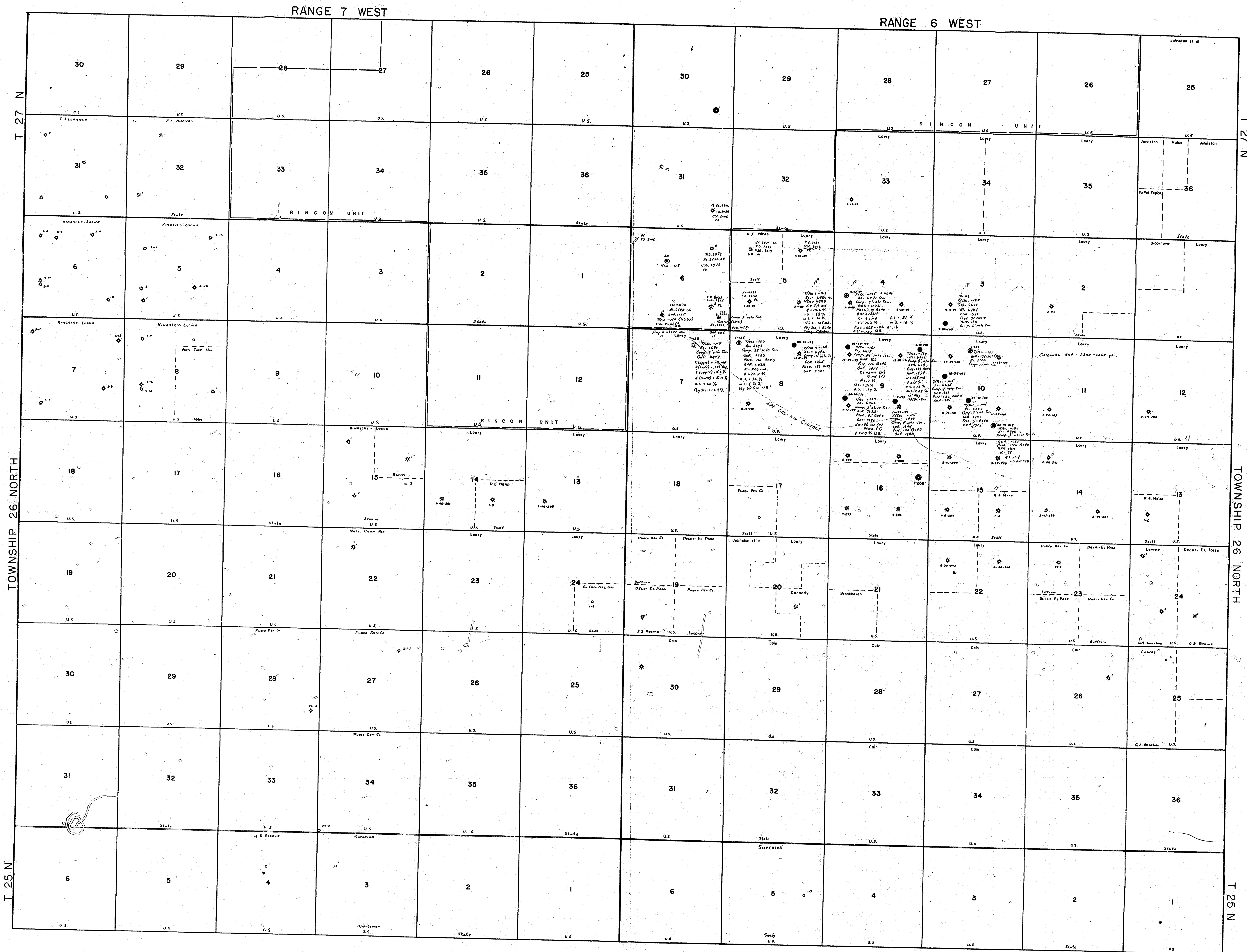
Form 200—Printed and For Sale by Hall-Forbush Press, Roswell, New Mexico



337



338



339

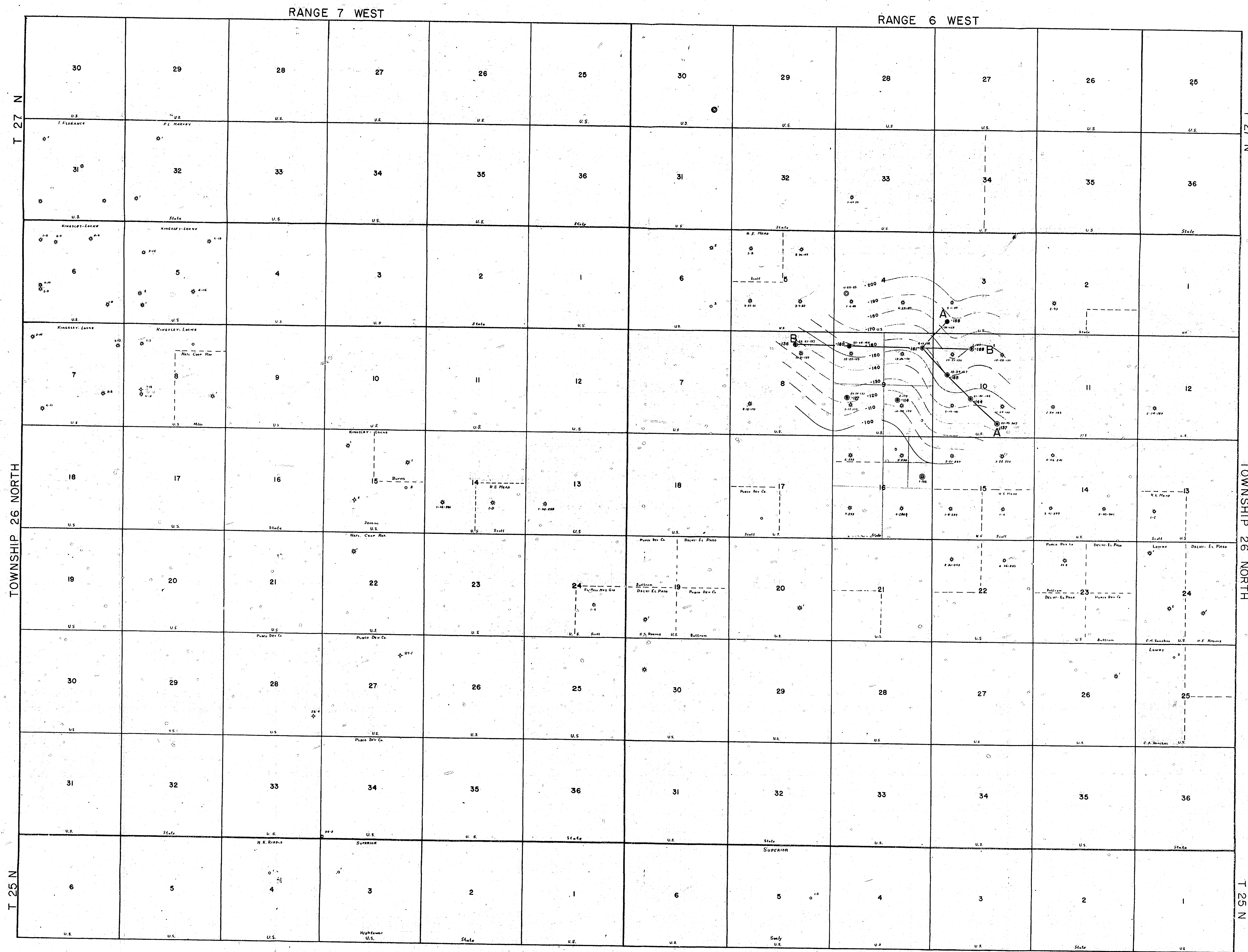
LOWRY ET AL OPERATING ACCOUNT

ERKAN AREA, RIO ARRIBA COUNTY, NEW MEXICO

LEGEND:

- Dakota Well
- Tacito Oil Well
- Gas Well
- ◇ Dry Hole
- Location

340



LOWRY ET AL OPERATING ACCOUNT FIGURE I.

ERKAN AREA, RIO ARRIBA COUNTY, NEW MEXICO

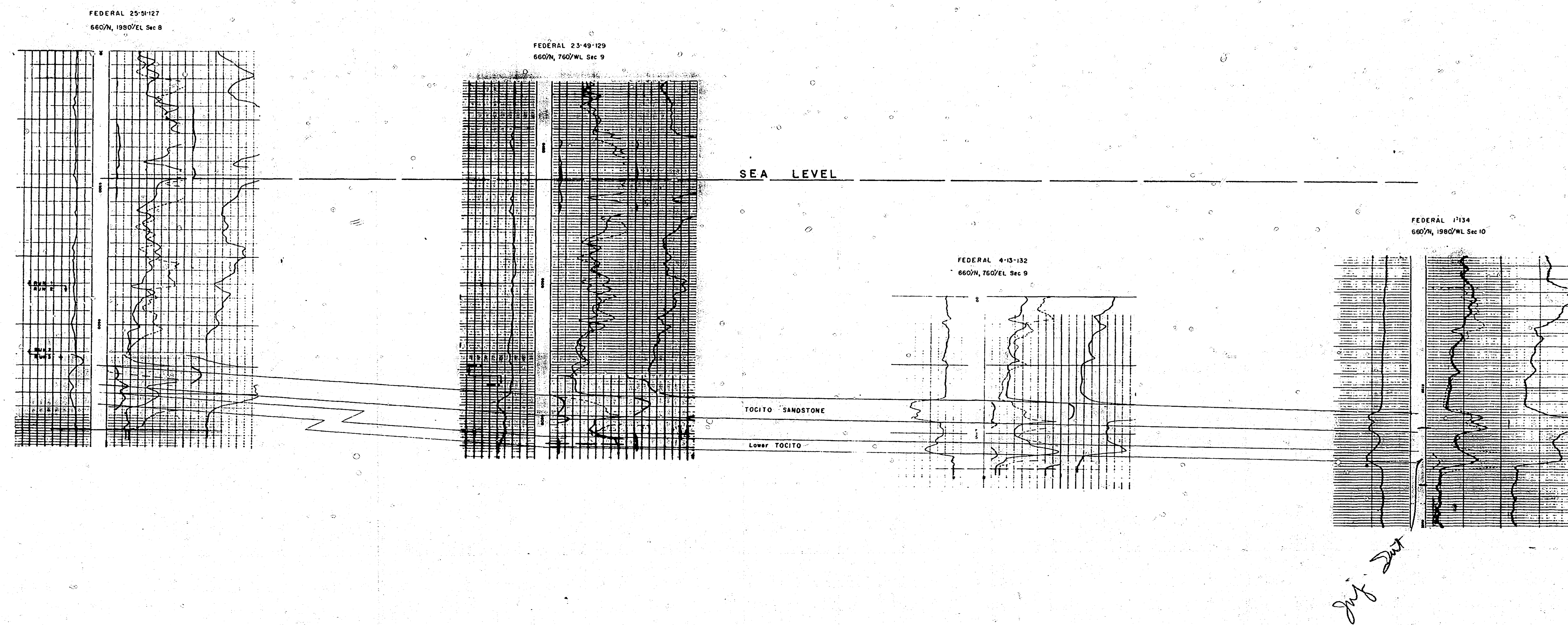
- LEGEND:
- Dakota Well
 - Tocco Oil Well
 - Gas Well
 - ◇ Dry Hole
 - Location

U.S. GEOLOGICAL SURVEY, 1933

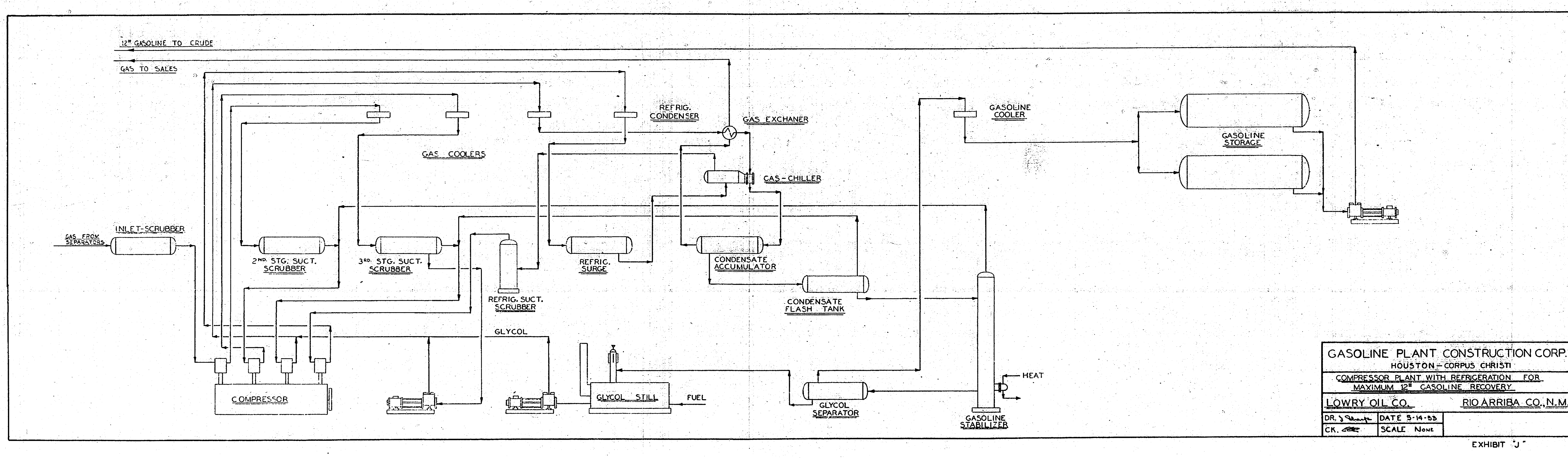
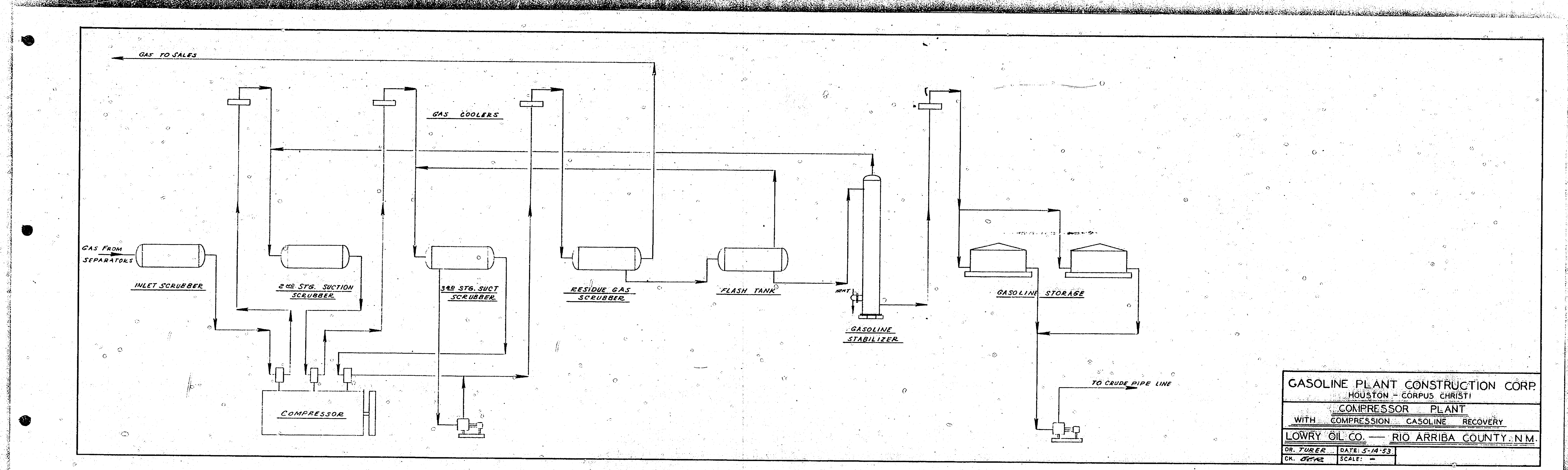
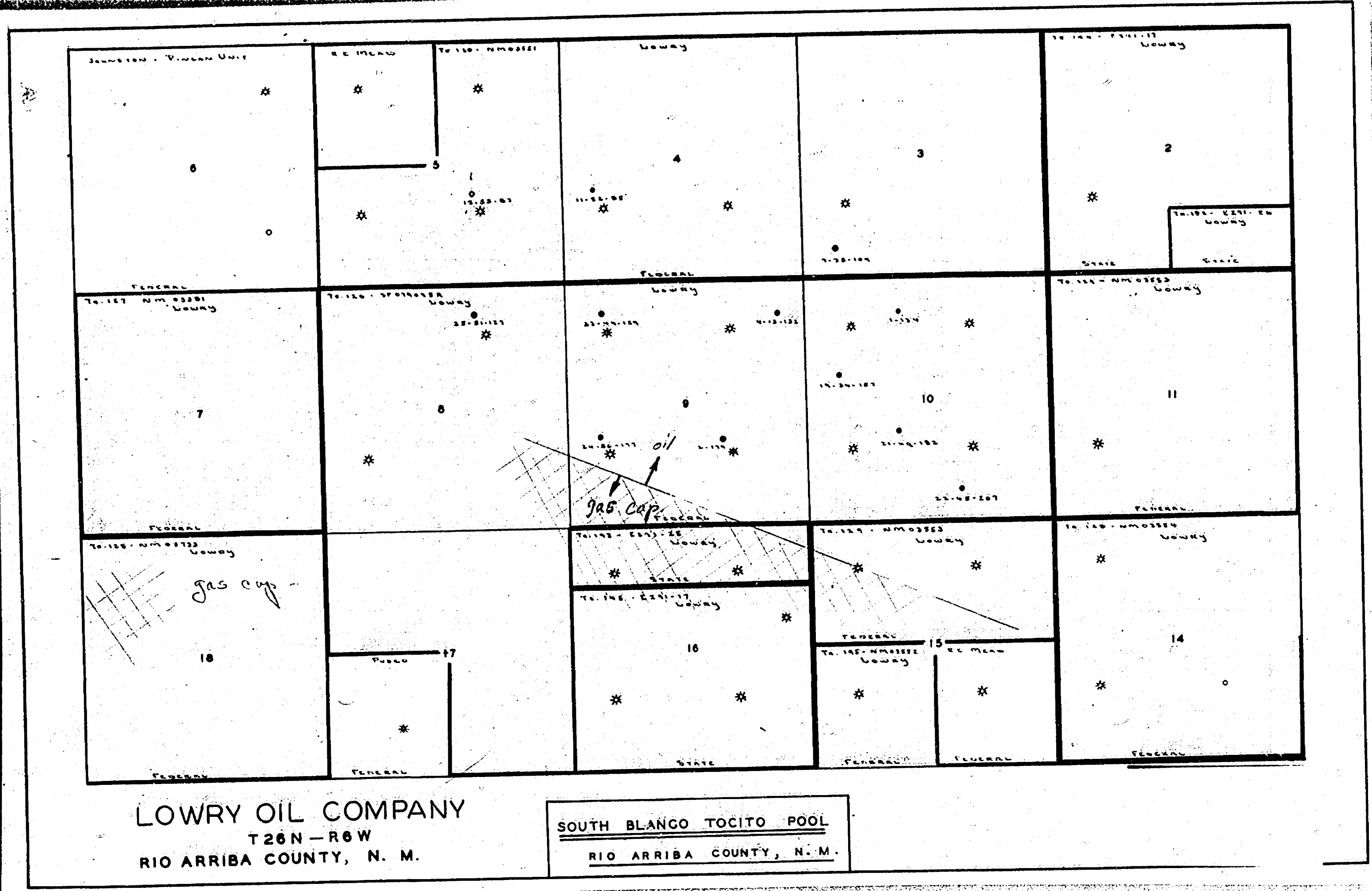
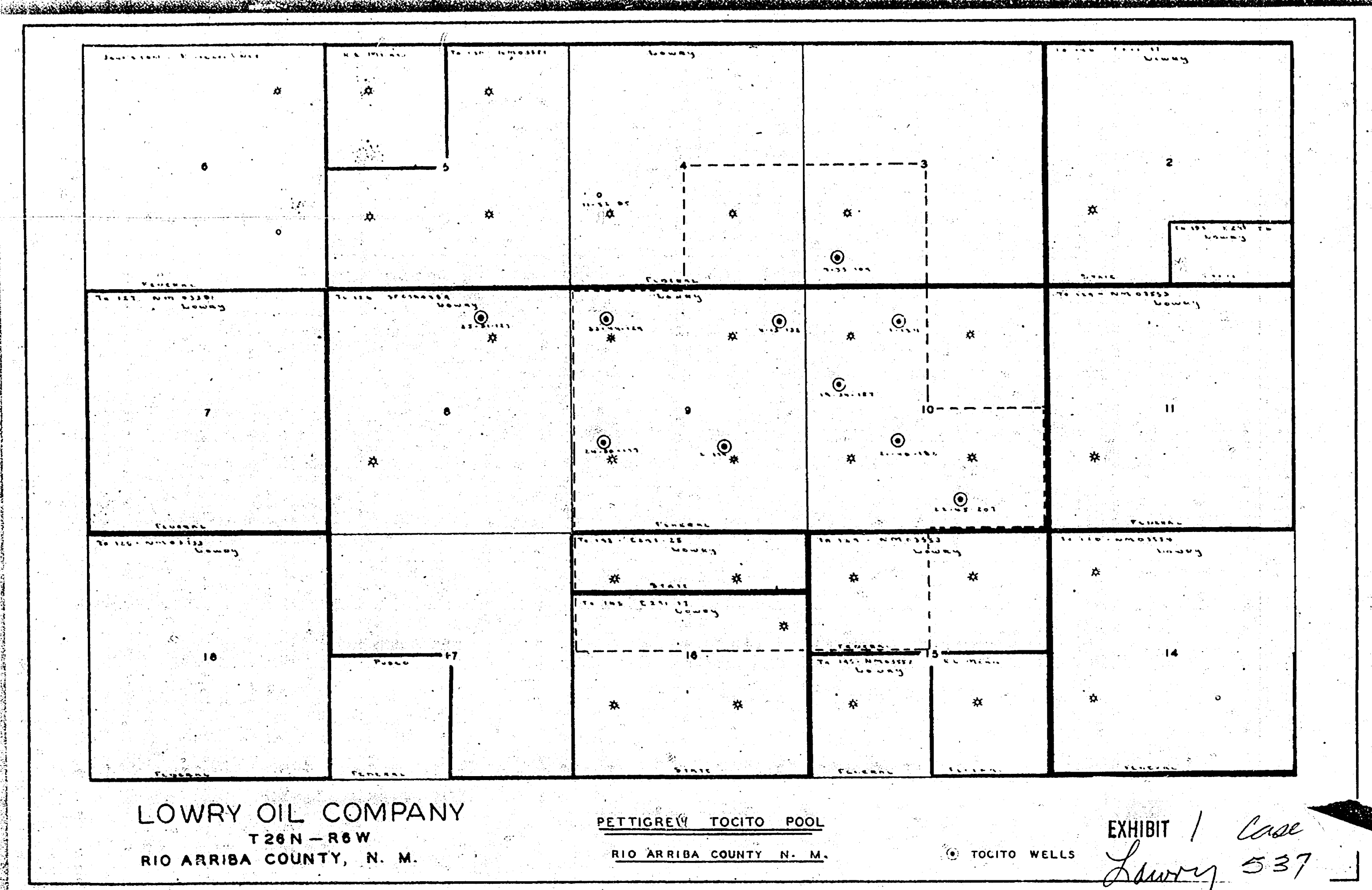
LOWRY ET AL OPERATING ACCOUNT

TOCITO SAND CROSS-SECTION
ALONG LINE B-B', FIG 1

Henry S. Birdseye, 1953



341



342

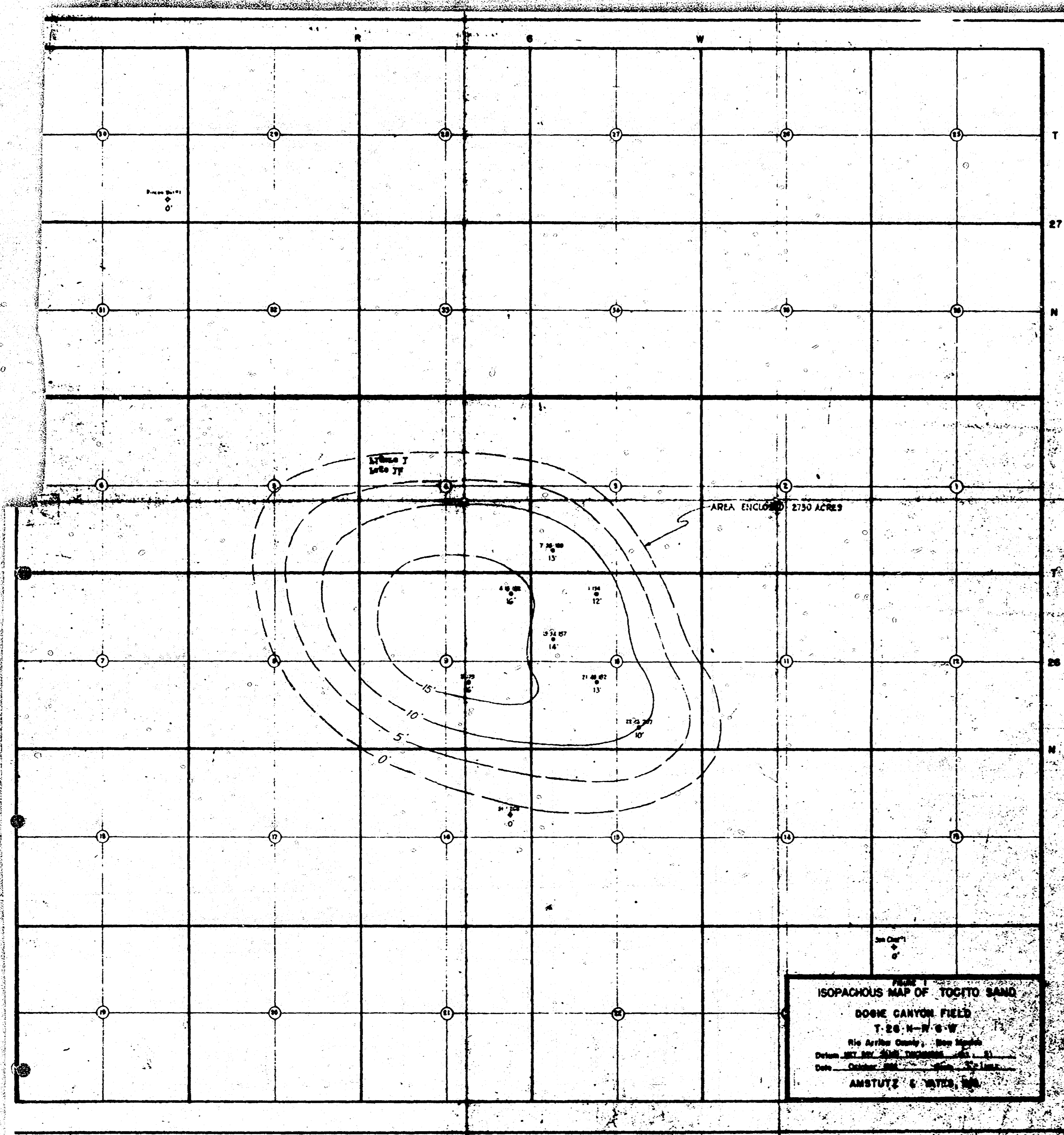


FIGURE 1
ISOPACHOUS MAP OF DOME CANYON FIELD
 T-28-N-W-8-W
 Rio Arriba County, New Mexico
 Date: _____
 AMSTUTZ & WATES, INC.

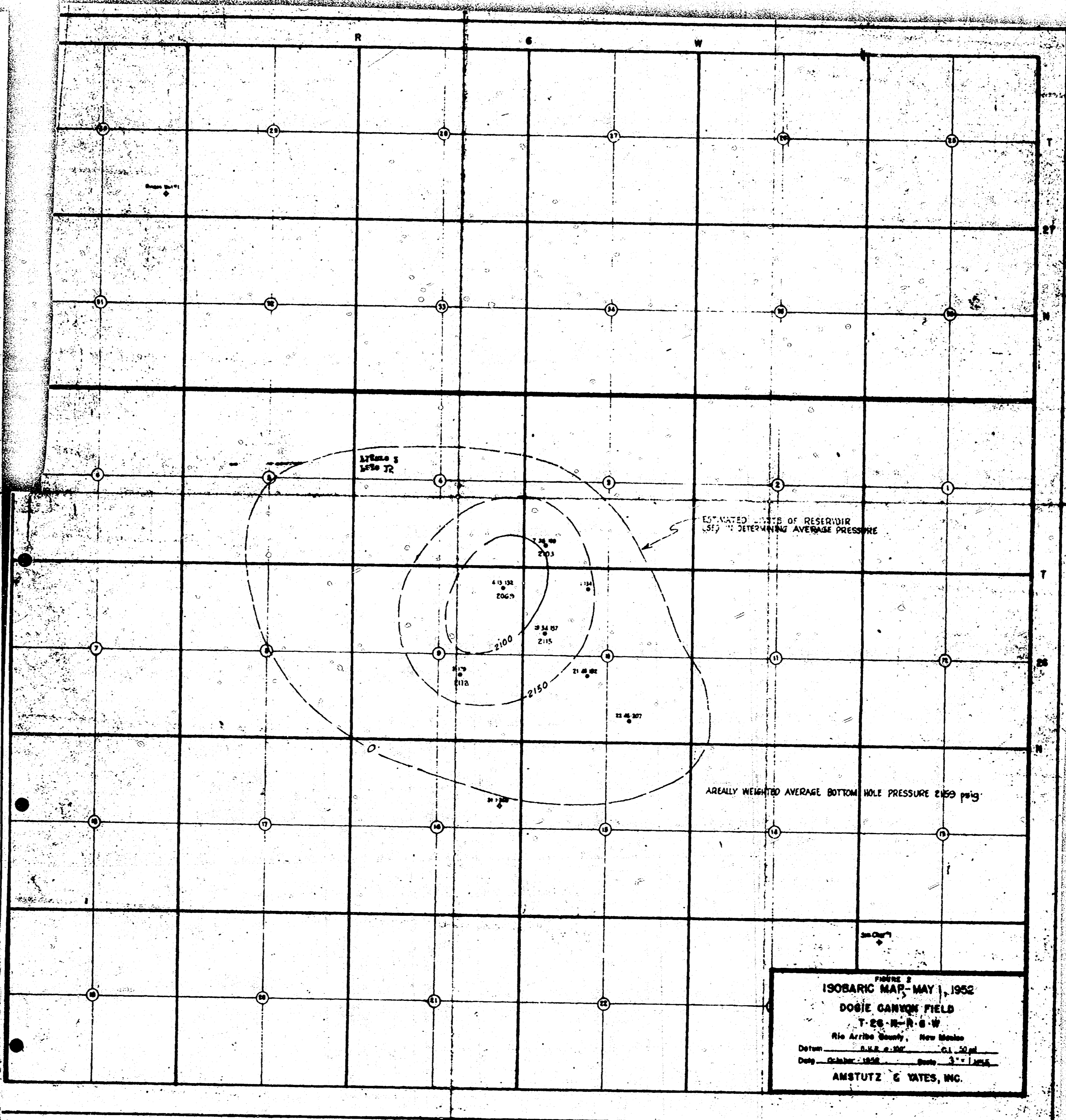
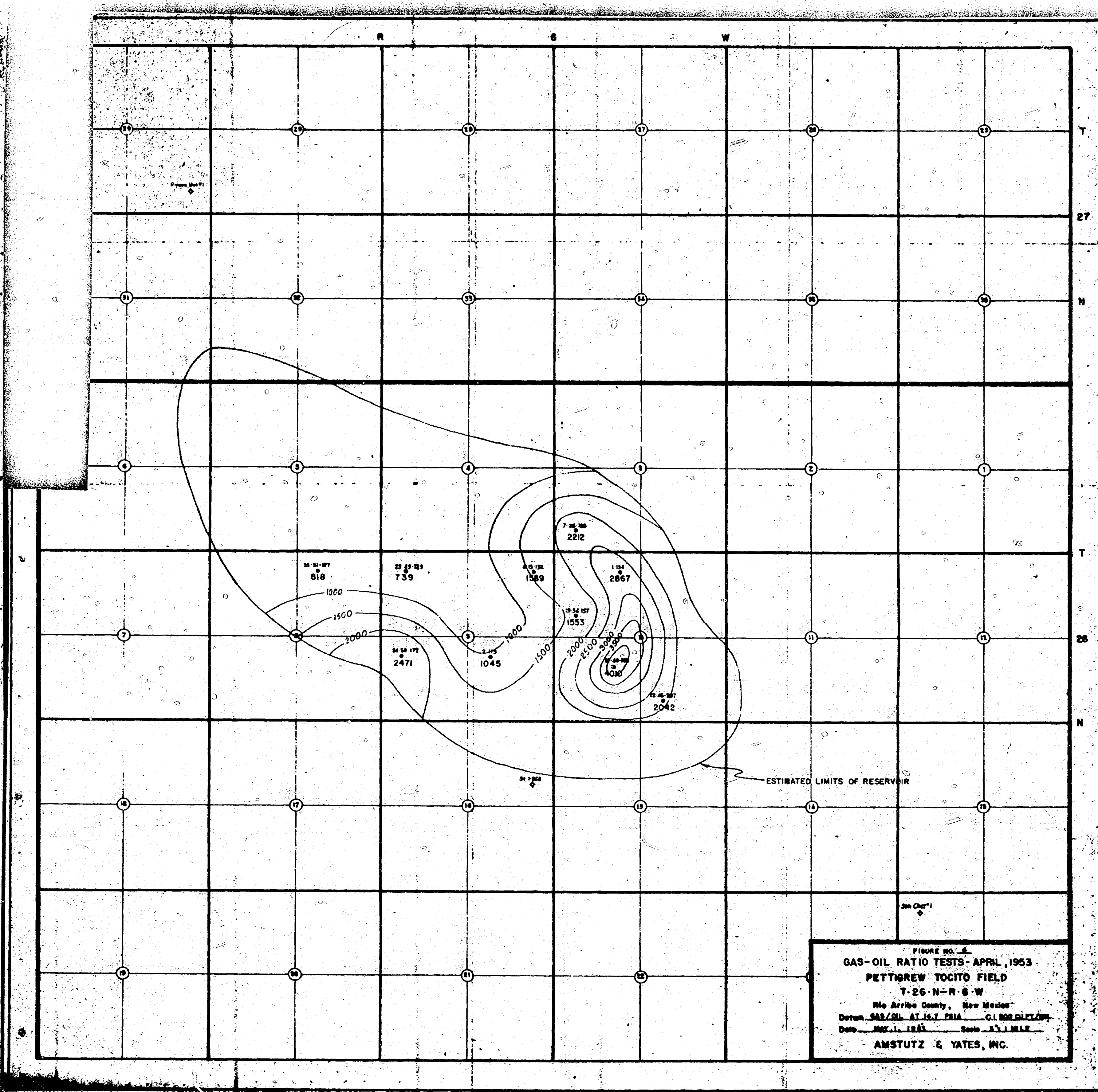
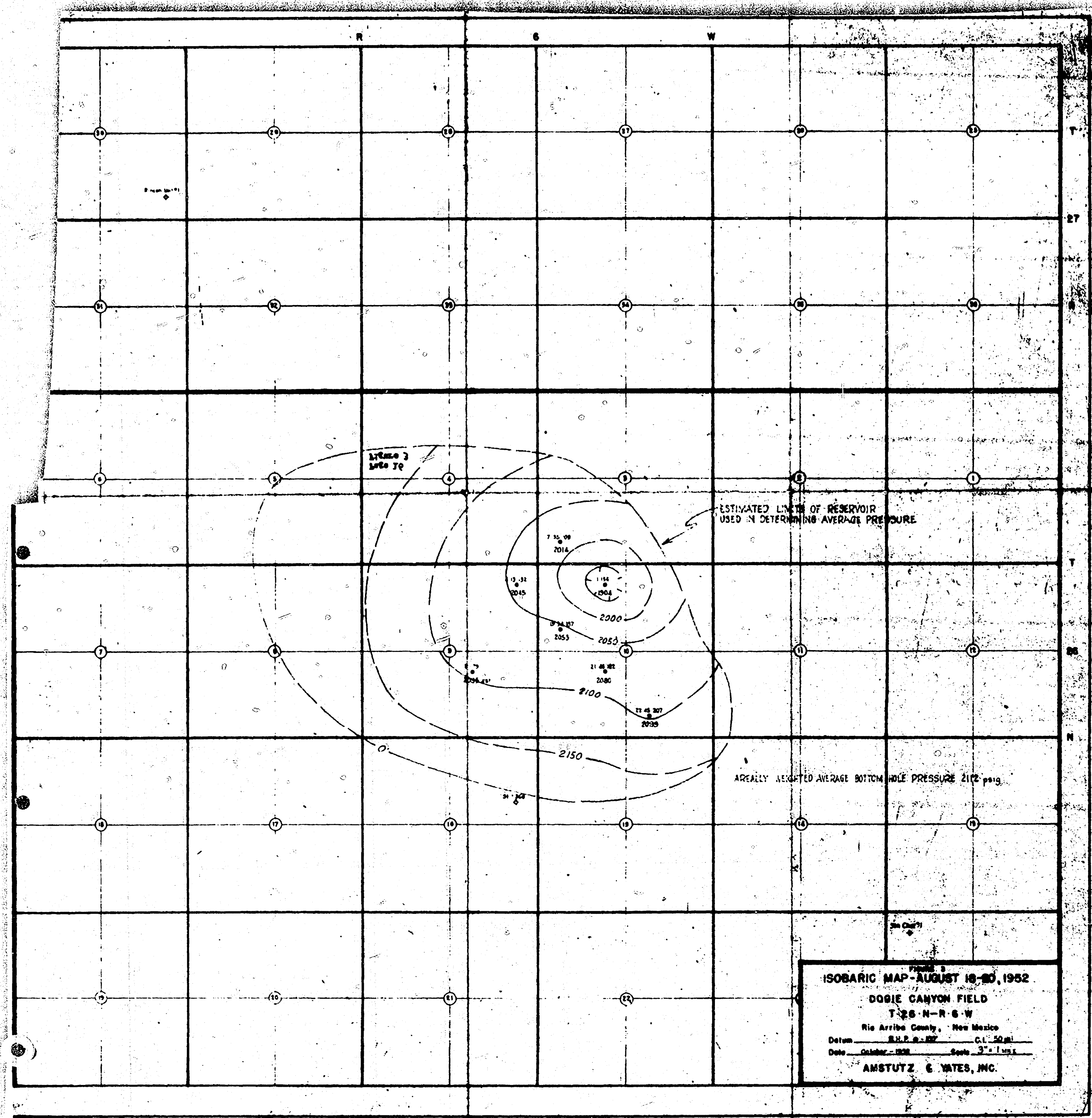
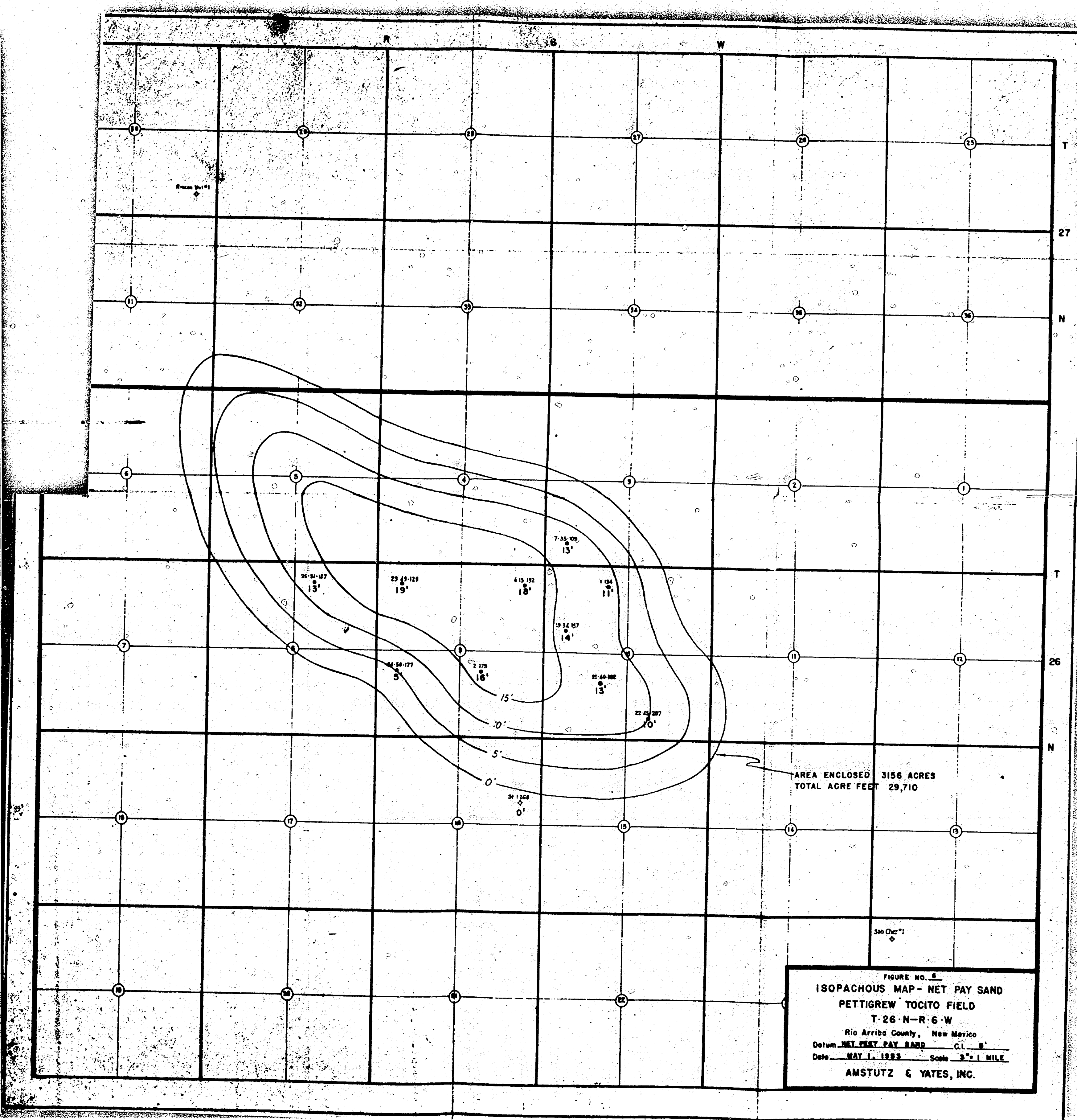
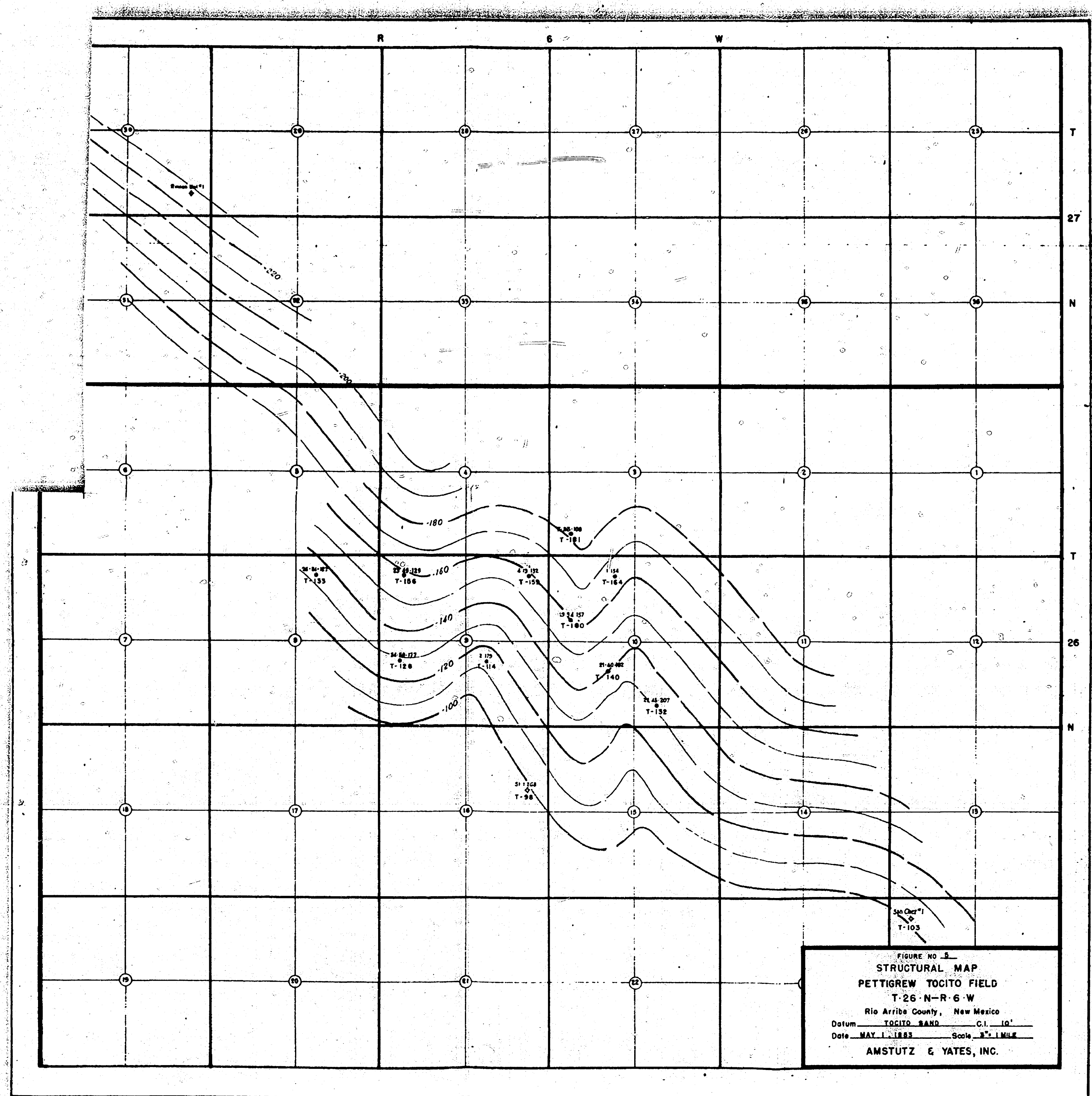


FIGURE 2
ISOBARIC MAP - MAY 1, 1952
 DOME CANYON FIELD
 T-28-N-W-8-W
 Rio Arriba County, New Mexico
 Date: _____
 AMSTUTZ & WATES, INC.

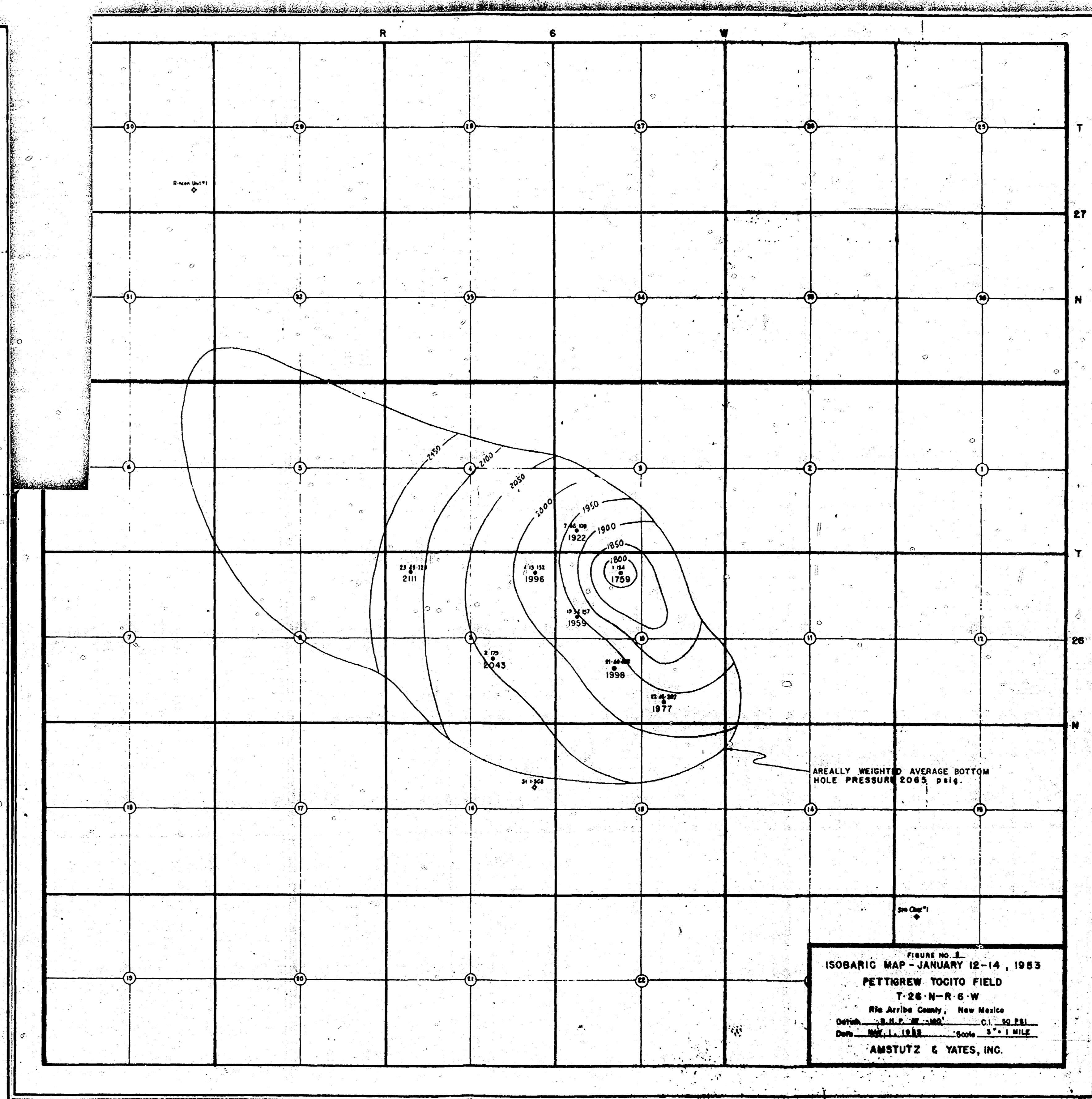
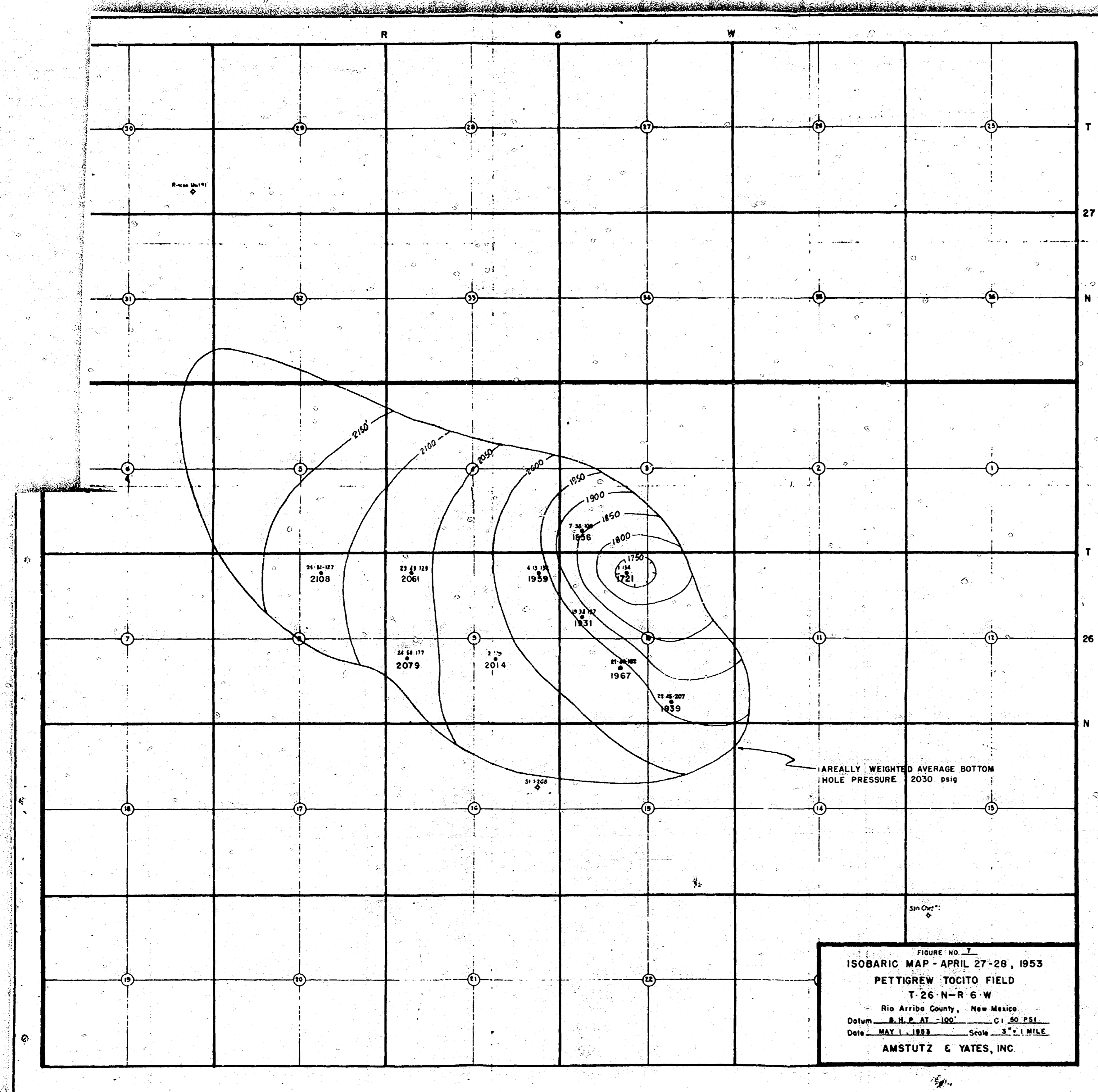
344



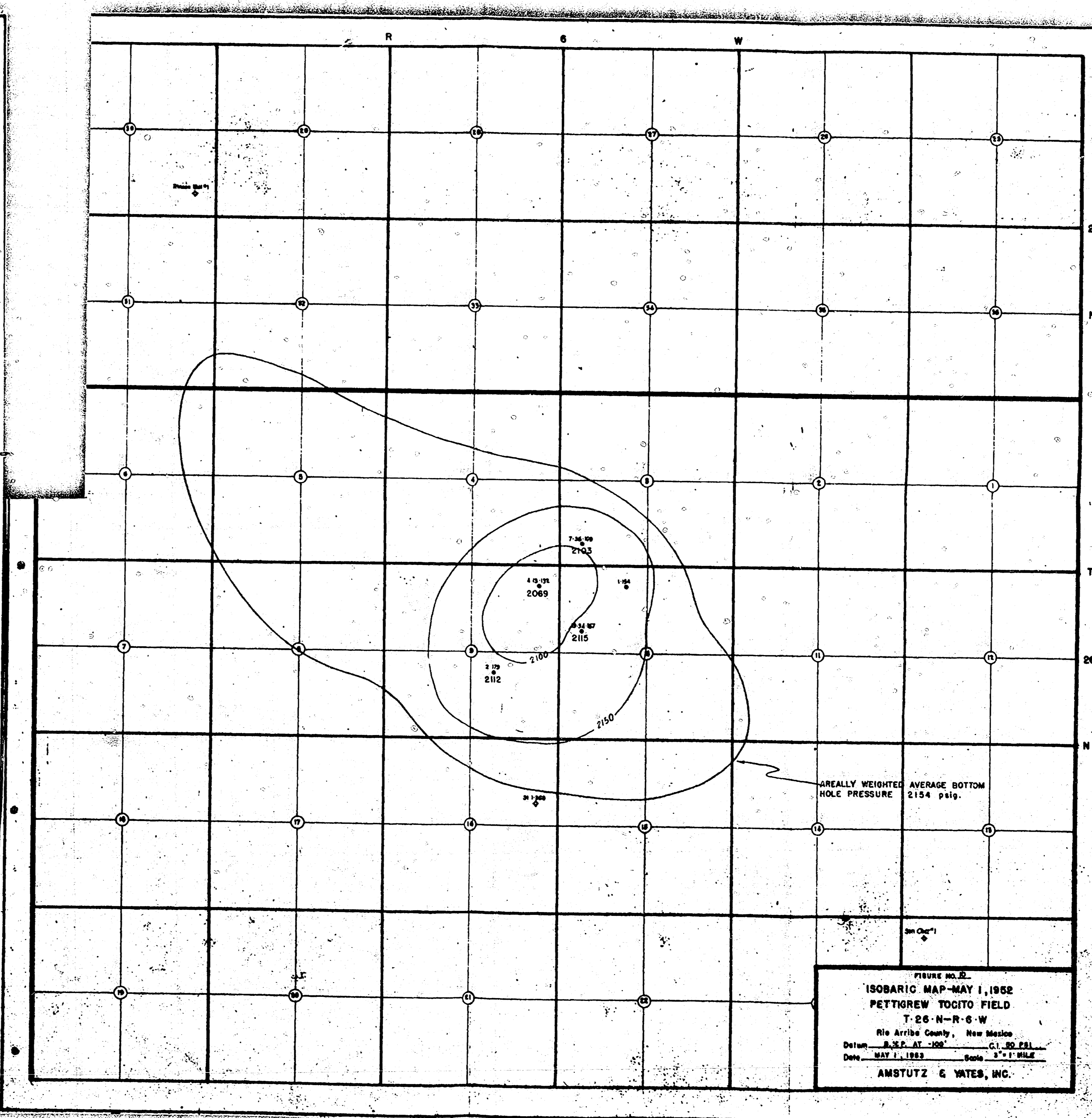
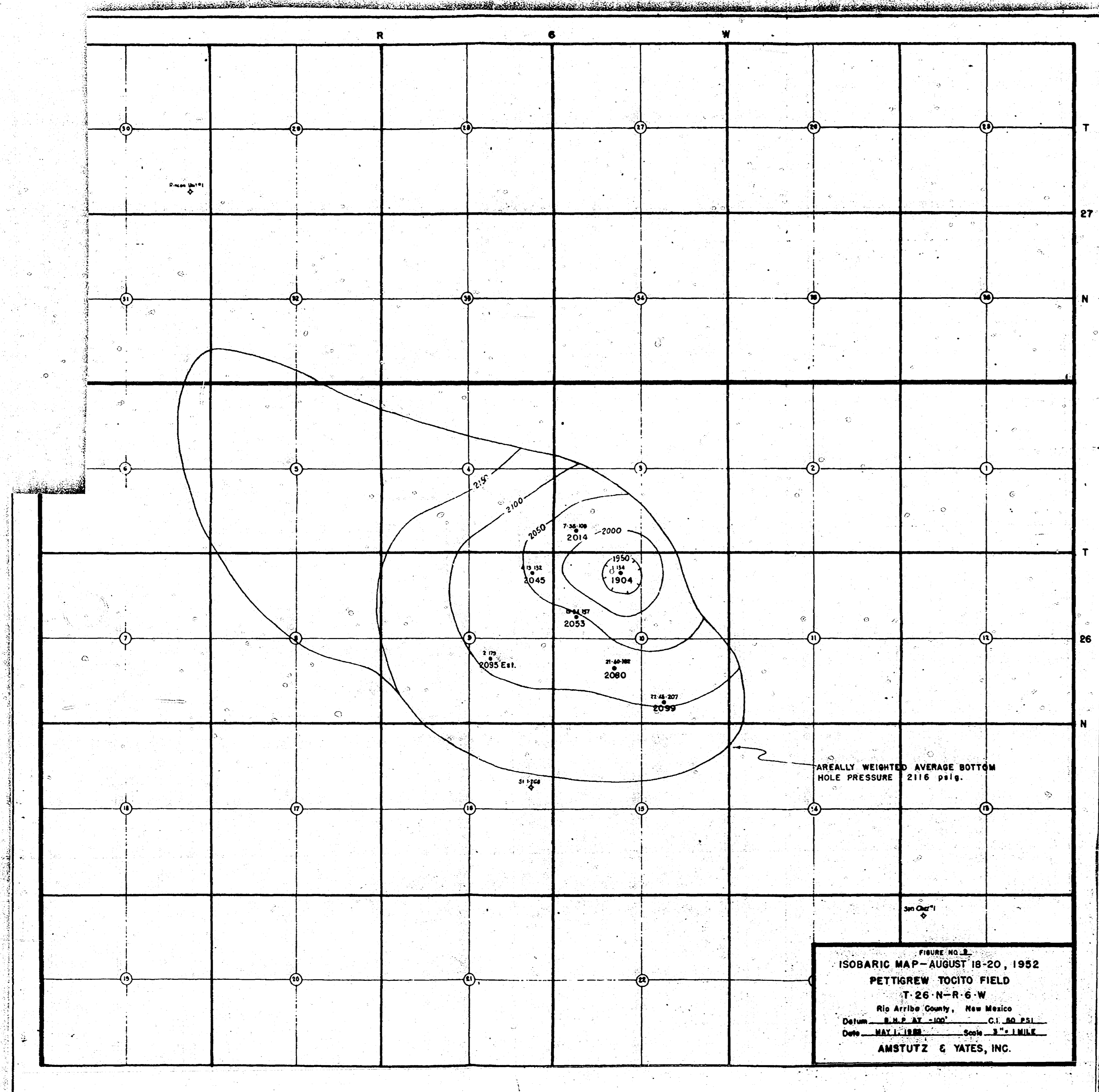
345



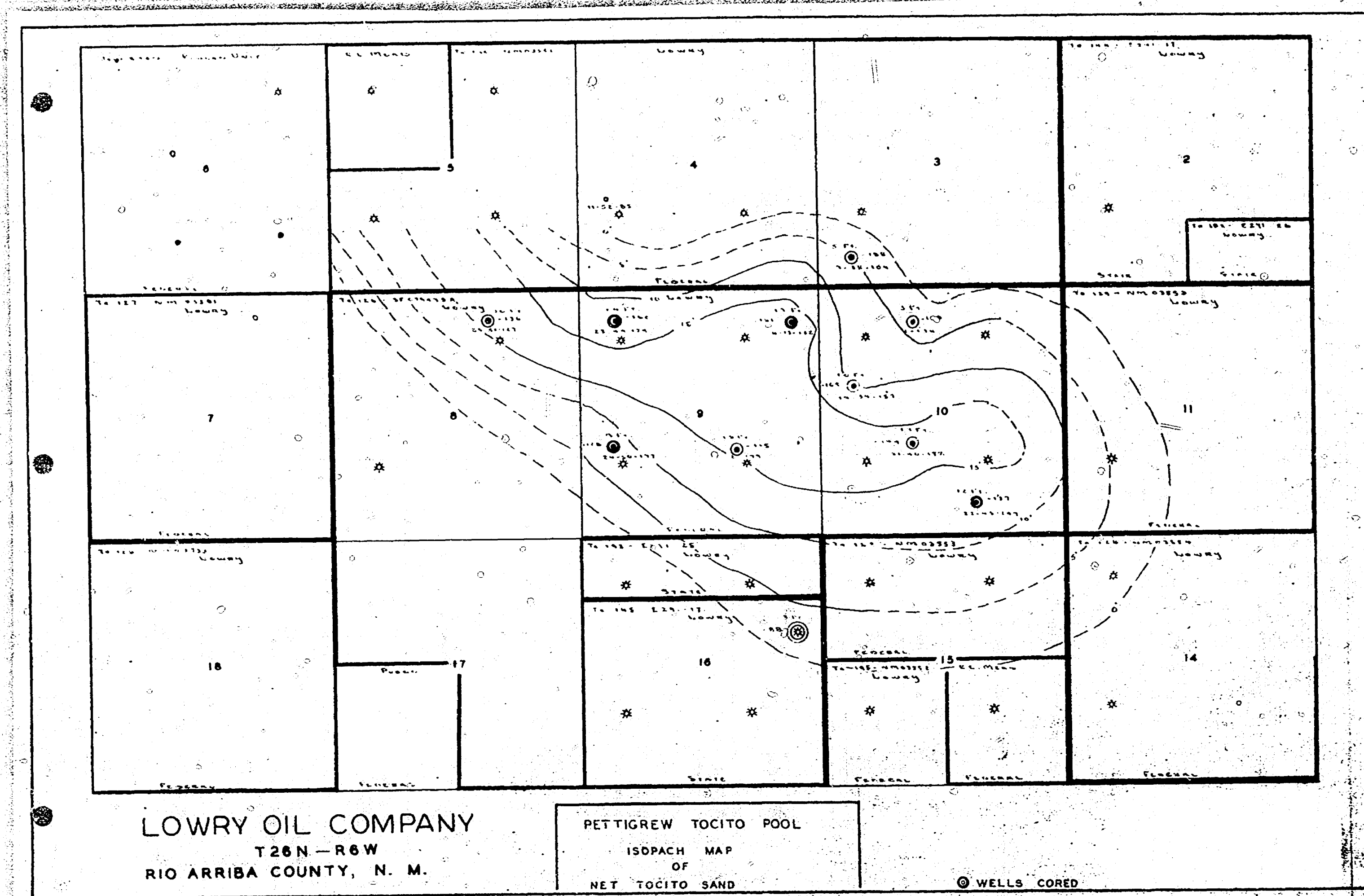
346



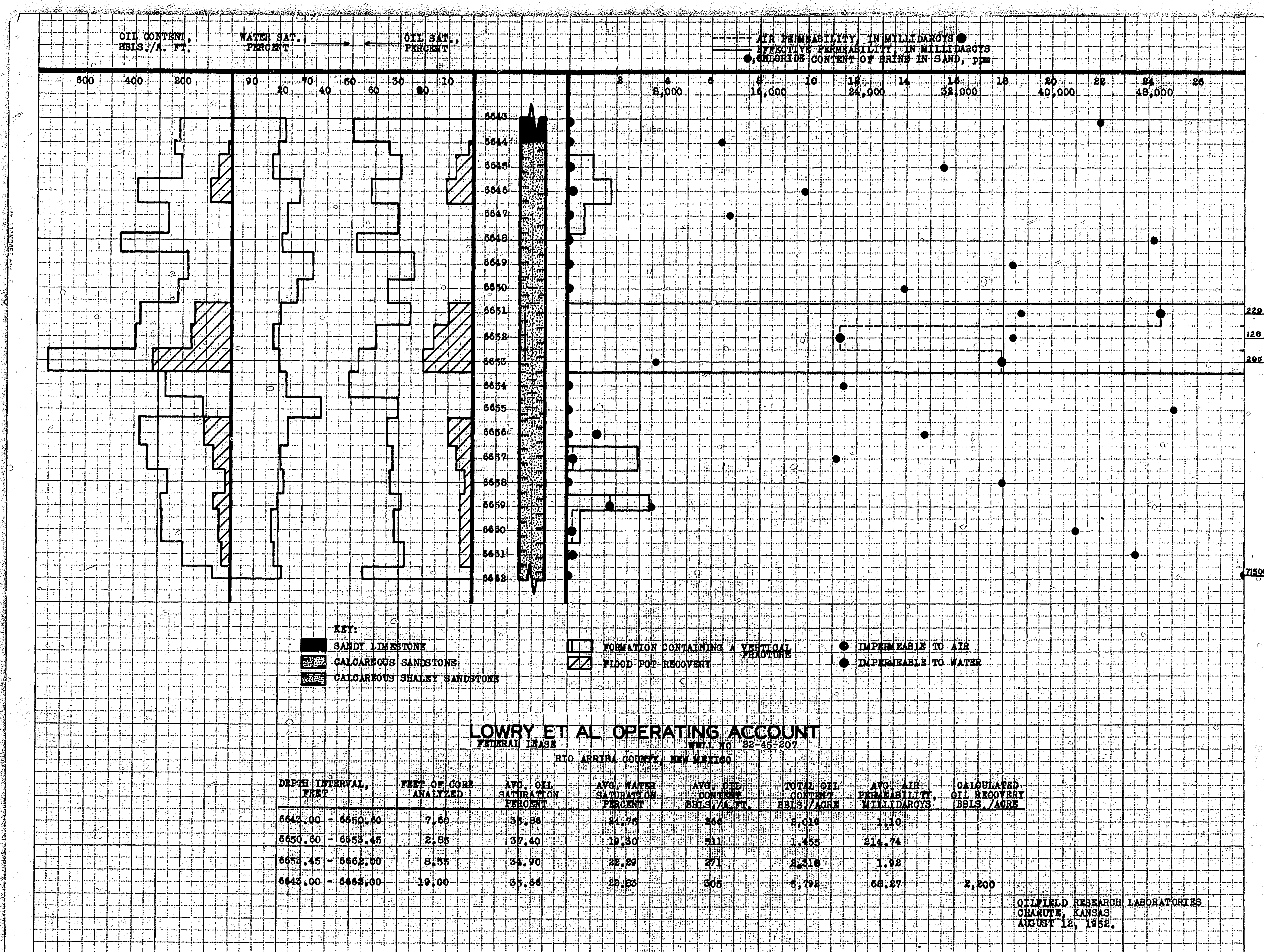
347



348

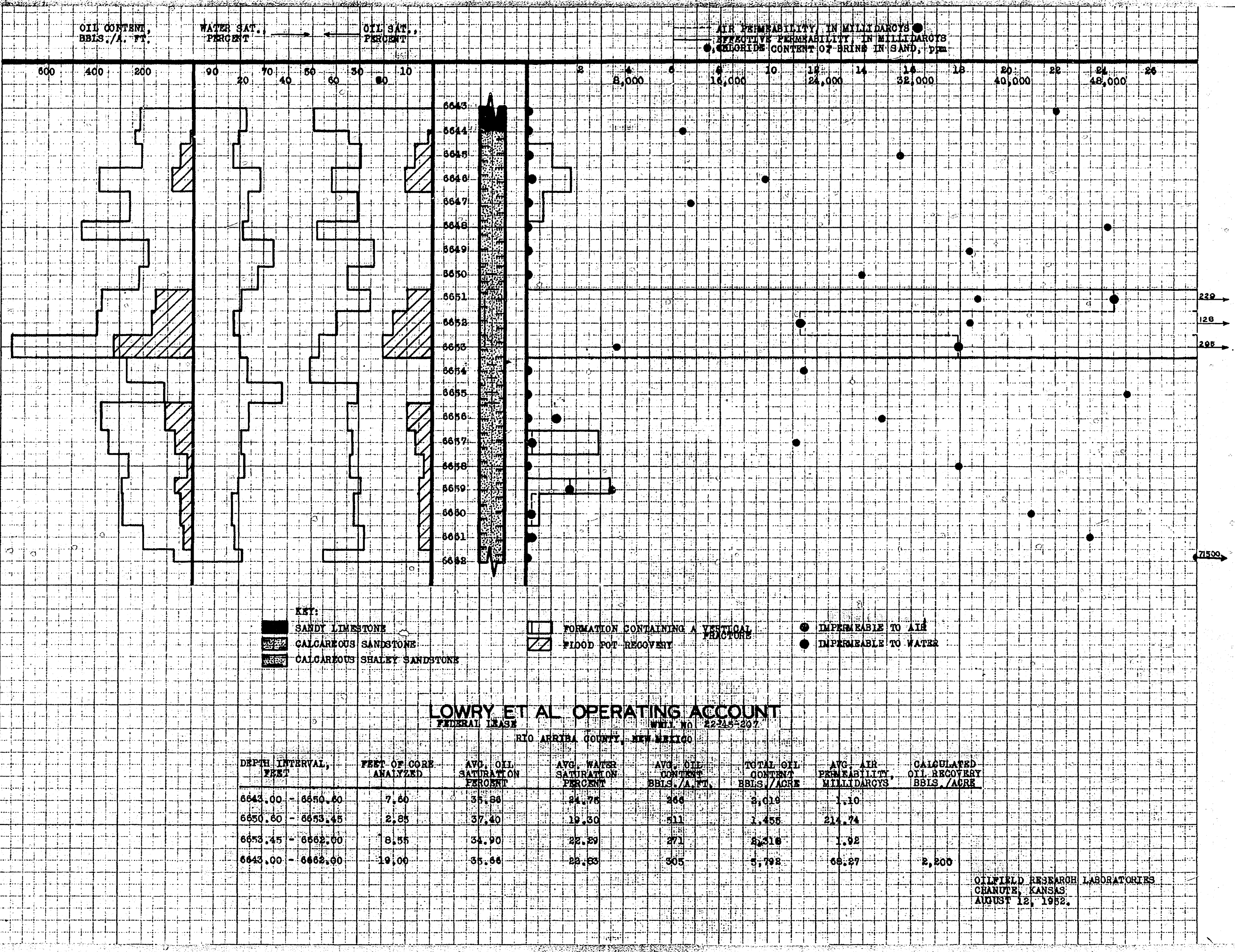
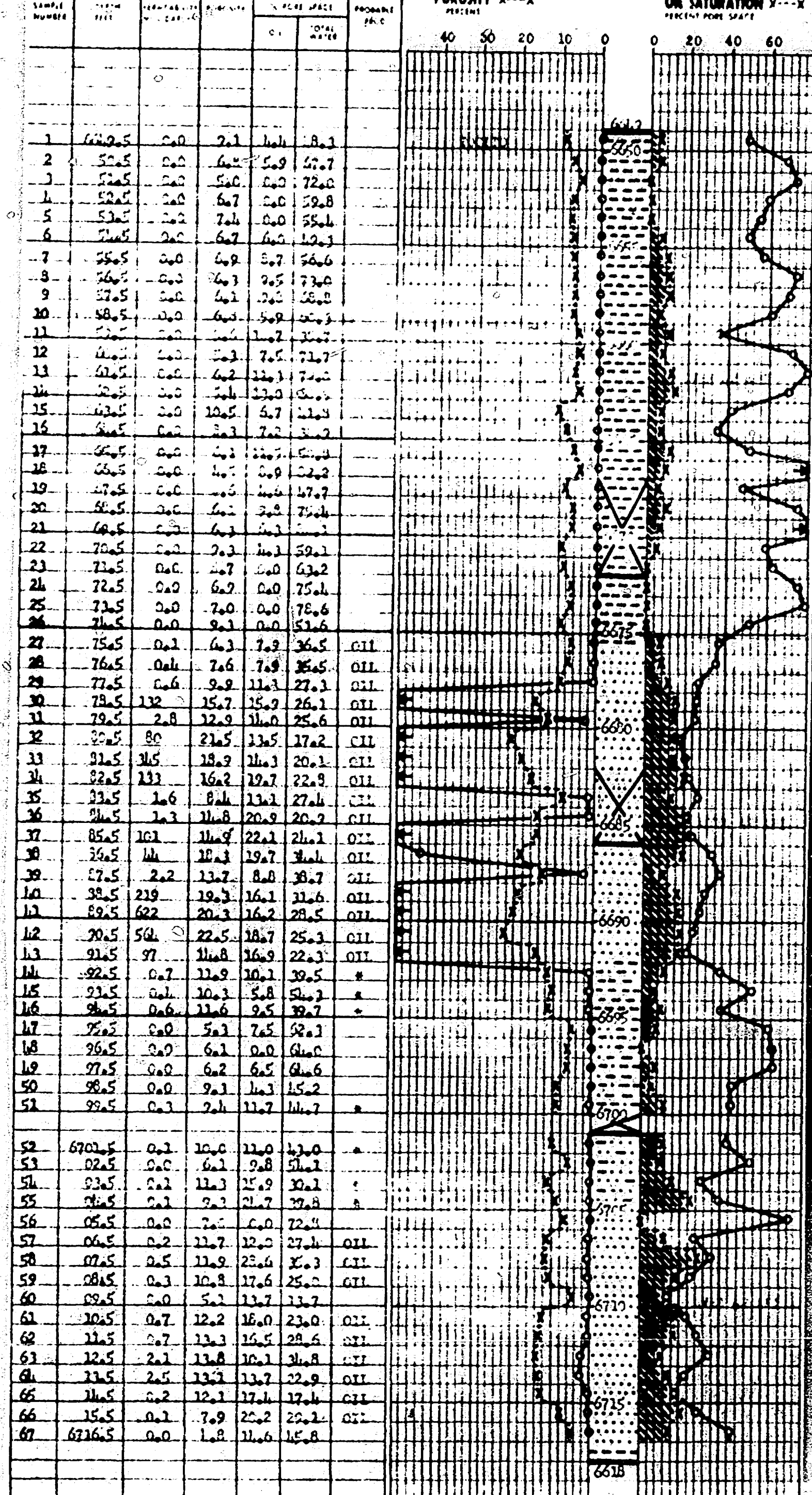


349



COMPANY: LOWRY ET AL. OPERATING ACCOUNT DATE: 11/6 - 11/15/51
 WELL: FEDERAL 22 - 15 - 207 CORES: 22 ANALYSIS: 22
 FIELD: JARDON CENTER FORMATION: TOCITO ELEVATION: 6500 FT
 COUNTY: RIO ARIZONA OIL FIELD: TOCITO LOCATION: 22-15-207-02
 STATE: NEW MEXICO OIL FIELD: TOCITO REMARKS: SERVICE NO. 1

CORE ANALYSIS AND INTERPRETATION **COMPLETION COREGRAPH**



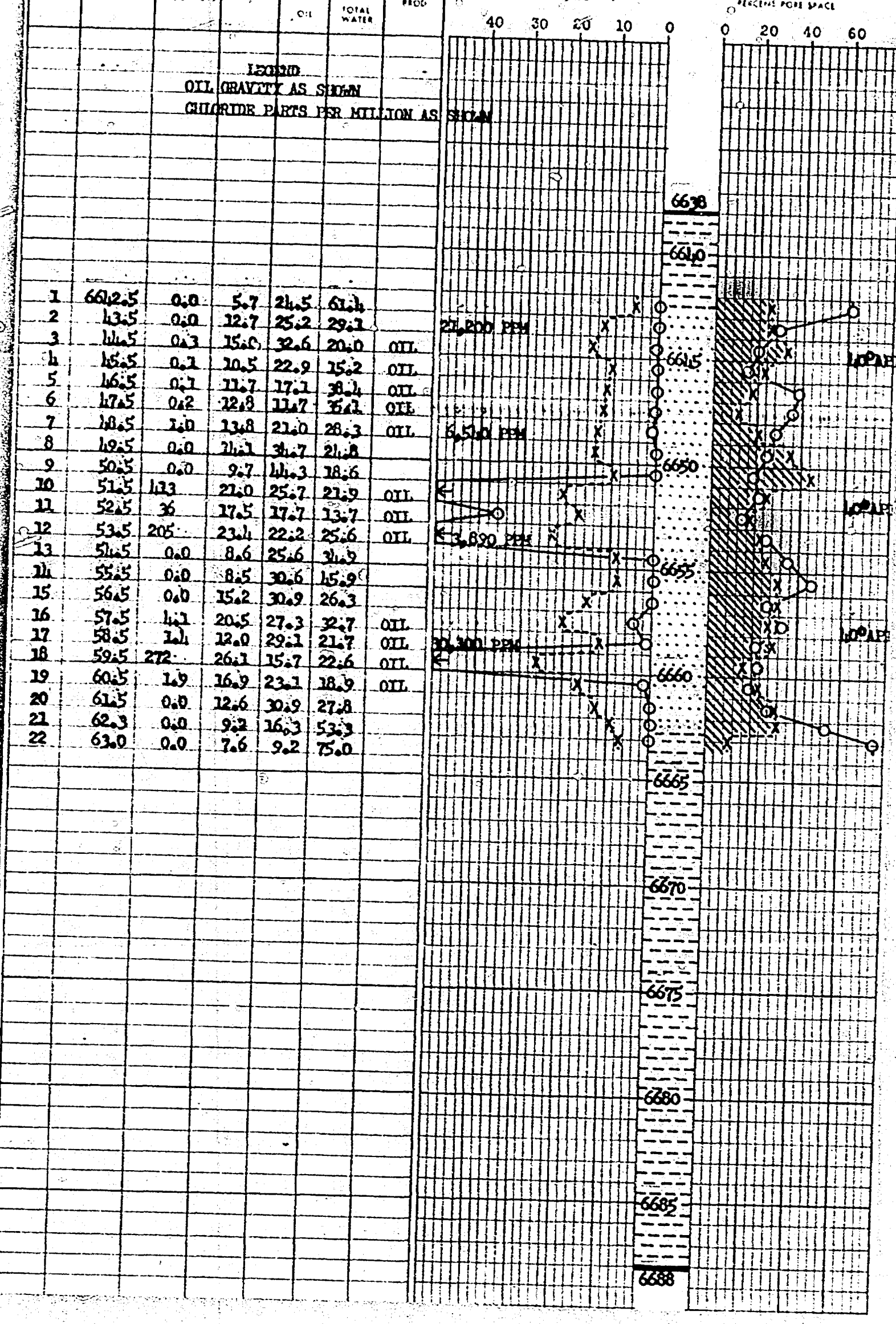
LOWRY ET AL OPERATING ACCOUNT

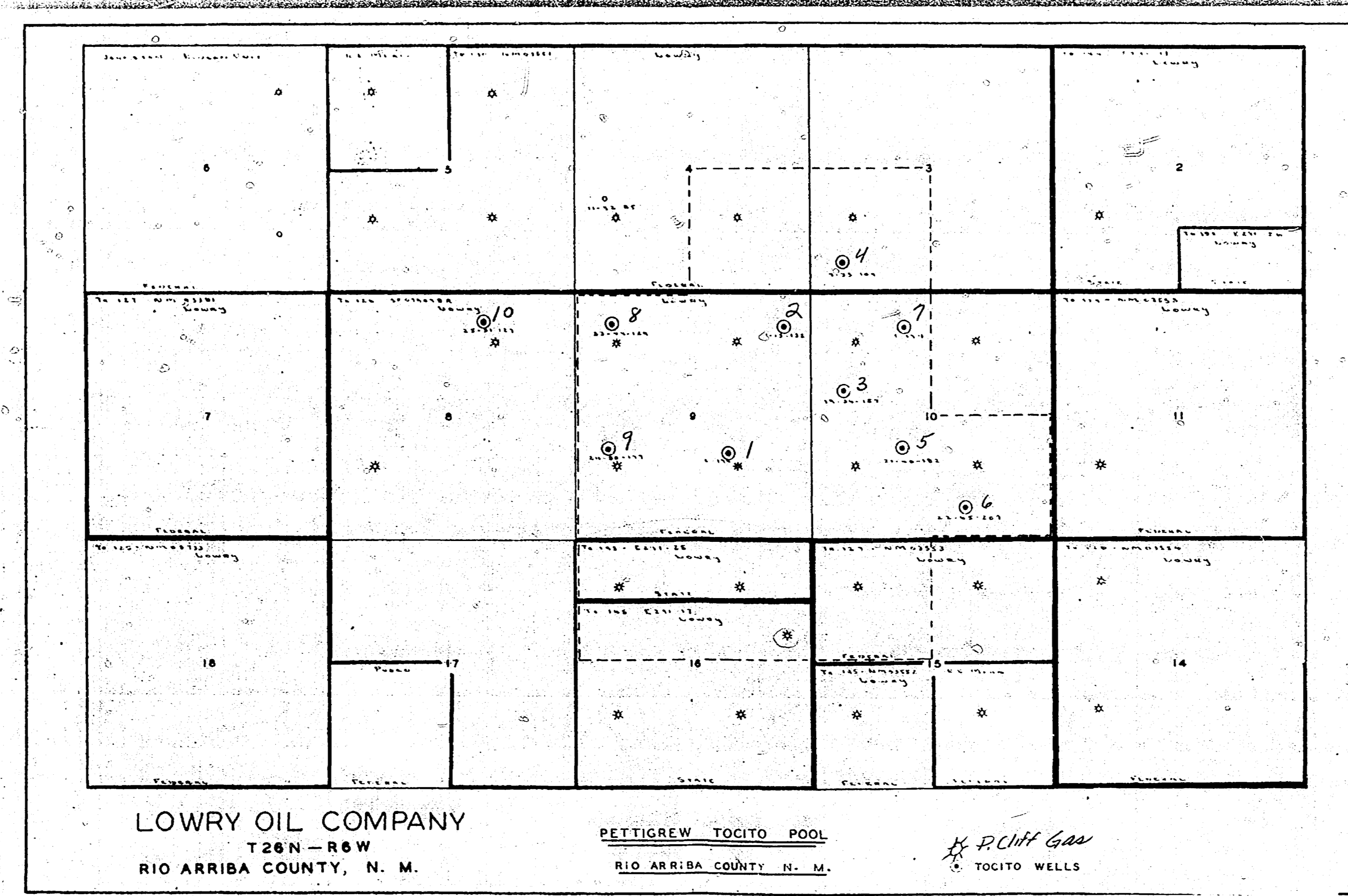
| DEPTH INTERVAL, FEET | PERCENT OF CORE ANALYZED | AVG. OIL SATURATION PERCENT | AVG. WATER OIL PERCENT | AVG. OIL CONTENT BBLS/CC | PORAL OIL CONTENT BBLS/CC | AVG. AIR PERMEABILITY MILIDARCY | CALCULATED OIL PROOFRESERVE BBLS/acre |
|----------------------|--------------------------|-----------------------------|------------------------|--------------------------|---------------------------|---------------------------------|---------------------------------------|
| 6545.00 - 6680.00 | 7.66 | 31.80 | 24.76 | 366 | 3,010 | 1.10 | |
| 6680.00 - 6835.45 | 6.85 | 37.40 | 19.50 | 311 | 1,458 | 214.74 | |
| 6835.45 - 6865.00 | 6.95 | 35.90 | 25.29 | 273 | 2,218 | 1.28 | |
| 6865.00 - 6865.00 | 0.00 | 35.64 | 28.20 | 305 | 1,792 | 64.27 | 2,800 |

350

COMPANY: LOWRY ET AL OPERATING ACCOUNT DATE: JULY 25, 1952
 WELL: FEDERAL 22 - 15 - 207 CORES: 22 ANALYSIS: 22
 FIELD: JARDON CENTER FORMATION: TOCITO ELEVATION: 6500 FT
 COUNTY: RIO ARIZONA OIL FIELD: TOCITO LOCATION: 22-15-207-02
 STATE: NEW MEXICO OIL FIELD: TOCITO REMARKS: SERVICE NO. 1

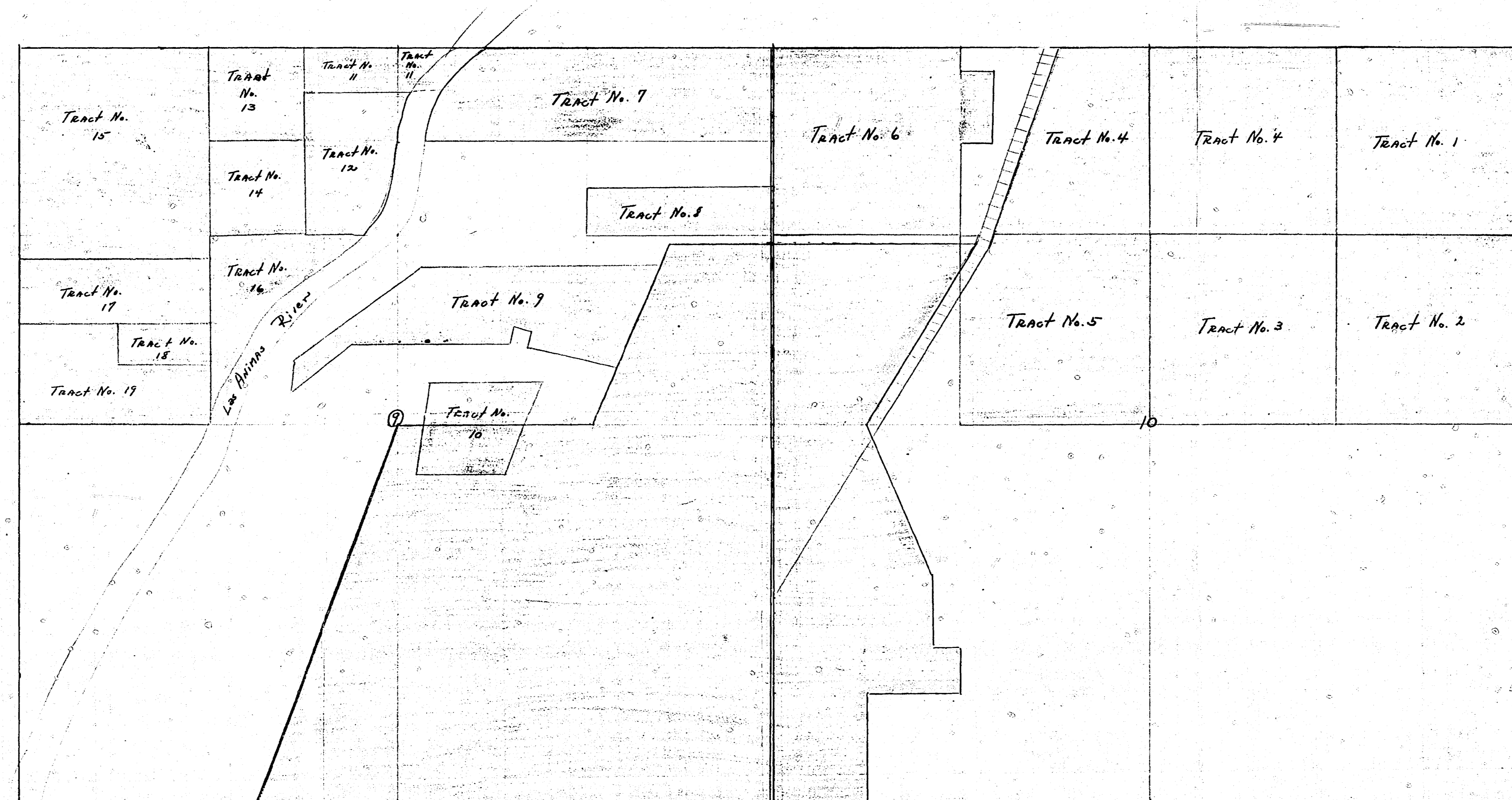
CORE ANALYSIS AND INTERPRETATION **COMPLETION COREGRAPH**





351

352

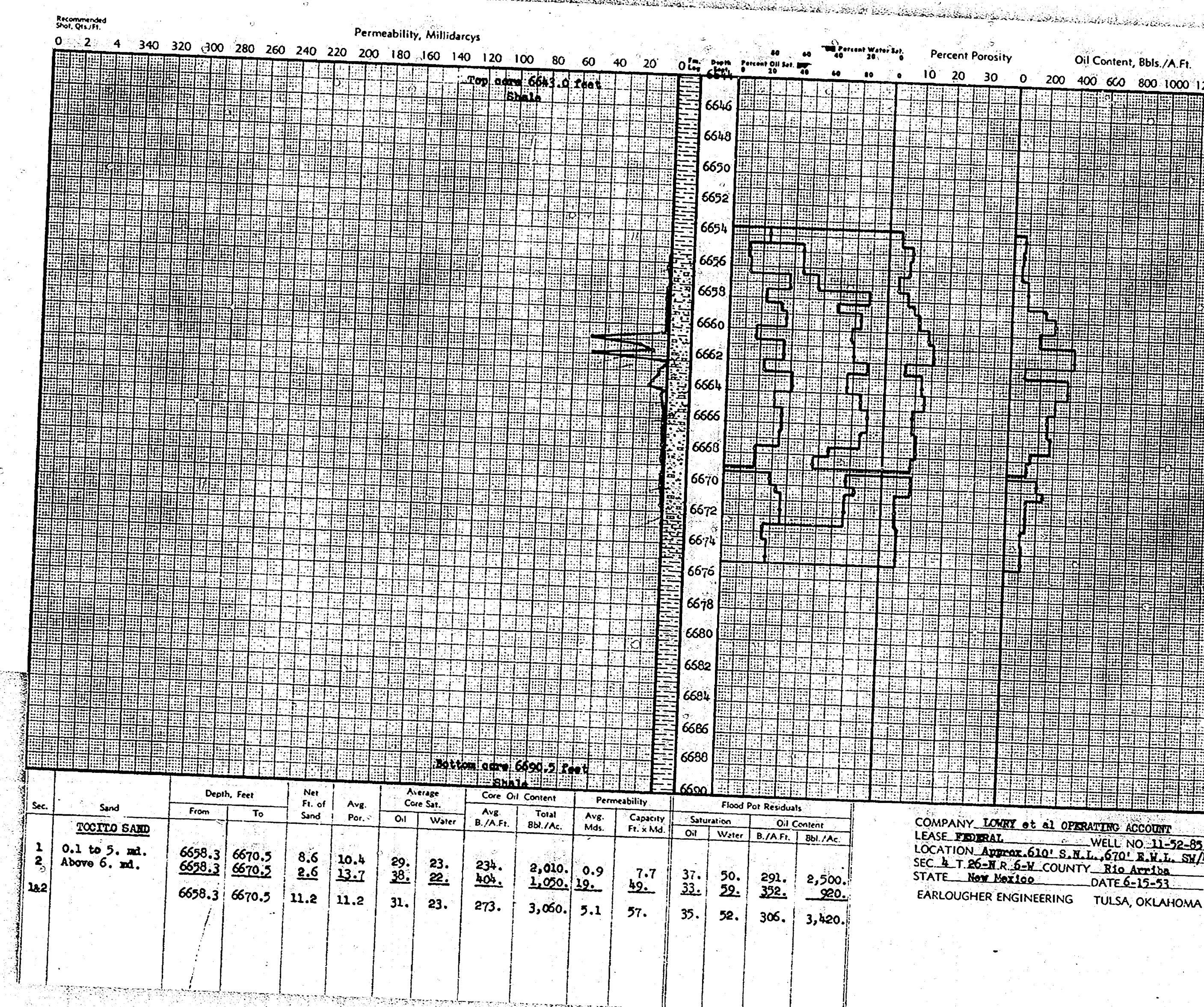
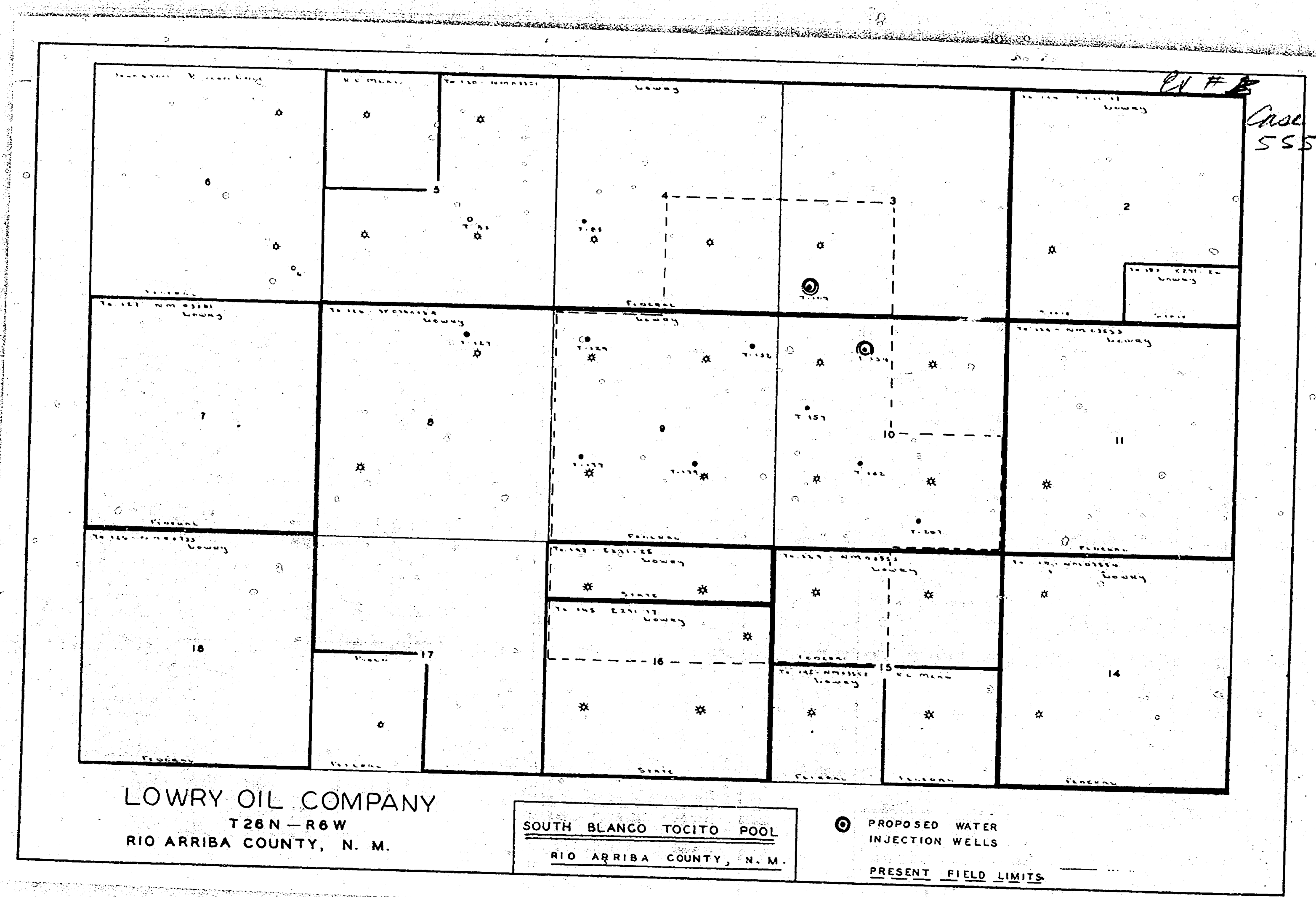


City limits Town & Asteo
 W.P. Corr Leases
 D & R.G.W.R.R. right of way
 1" = 440 feet

Tract No. 1 - SFOTB 40 acres NE 1/4 NE 1/4 10-30-11
 Tract No. 2 - Maddox et al 40 acres SW 1/4 NE 1/4 10-30-11
 Tract No. 3 - Shepherd 40 acres SW 1/4 NE 1/4 10-30-11
 Tract No. 4 - Hampton 40 acres NW 1/4 NE 1/4 10-30-11
 Tract No. 5 - Hampton 28 acres NE 1/4 NW 1/4 10-30-11
 Tract No. 6 - Shepherd 40 acres SE 1/4 NW 1/4 10-30-11
 Tract No. 7 - M'Gee 48 acres NW 1/4 NW 1/4, SE 1/4 NW 1/4 10-30-11
 Tract No. 8 - Wallace 28 acres Fr. N 1/4 NW 1/4 9-30-11
 Tract No. 9 - Thomas 10 acres S 1/4 NE 1/4 9-30-11
 Tract No. 10 - Wallace 35 acres Fr. SE 1/4, Fr. SW 1/4, Fr. SE 1/4 NW 1/4 9-30-11
 Tract No. 11 - Crane 13 acres Fr. SW 1/4, Fr. NW 1/4 9-30-11
 Tract No. 12 - Randall 12 acres NW 1/4 9-30-11
 Tract No. 13 - Jones Fr. SE 1/4 9-30-11

Tract No. 12 - Bucklew 16 acres NW 1/4 9-30-11
 Tract No. 13 - Perkins 40 acres NW 1/4 9-30-11
 Tract No. 14 - Wallace 10 acres SW 1/4 NW 1/4 9-30-11
 Tract No. 15 - Thompson 27 acres NW 1/4 NW 1/4 9-30-11
 Tract No. 16 - Brown 10 acres SW 1/4 NW 1/4 9-30-11
 Tract No. 17 - Knifley 14 acres SW 1/4 NW 1/4 9-30-11
 Tract No. 18 - Randall 15 acres Fr. SW 1/4 NW 1/4 9-30-11
 Tract No. 19 - Sargent 15 acres Fr. SW 1/4 NW 1/4 9-30-11

Ex. 1



353

EXHIBIT D

U. S. GEOLOGICAL SURVEY
DEPARTMENT OF THE INTERIOR
LOG OF OIL OR GAS WELL

Section 2
7-15-109

LOCATE WELL CORRECTLY

Company Lowry et al. Operating Account Address 514 E. Central, Albuquerque, N.M.
 Lessor or Trust A. C. Melan Field Pollinger-Tecite State State New Mexico
 Well No. 7-15-109 Sec. 10 T. 25N R. 6E Meridian N.M.P.M. County Rio Arriba
 Location 660 ft. (N) of N. Line and 660 ft. (E) of E. Line of Section 10 Elevation 6600 ft.
 The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records. Signed /s/ E. R. Richardson
 Date April 28, 1952 Title Assistant General Manager
 The summary on this page is for the condition of the well at above date.
 Commenced drilling Feb. 28, 1952 Finished drilling April 5, 1952 19 52

OIL OR GAS SANDS OR ZONES
(Designate by No.)

No. 1, from 6682 to 6735 No. 4, from _____ to _____
 No. 2, from _____ to _____ No. 5, from _____ to _____
 No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from _____ to _____
 No. 2, from _____ to _____

CASING RECORD

| Date | Size | Depth | Material | Weight | Remarks |
|--------|-------|-------|----------|--------|---------|
| 10 3/8 | 1 1/2 | 15 | 250 | 120 | Surface |
| 1 1/2 | 1 1/2 | 15 | 250 | 120 | Surface |
| 1 1/2 | 1 1/2 | 15 | 250 | 120 | Surface |

MUDDING AND CEMENTING RECORD

| Date | When set | Number sacks of cement | Method used | Mud quantity | Amount of mud used |
|--------|----------|------------------------|-------------|--------------|--------------------|
| 10 3/8 | 15 | 250 | Plug | | |
| 1 1/2 | 15 | 135 | Plug | | |
| 1 1/2 | 15 | 135 | Plug | | |

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____
 Adapter—Material _____ Slip _____

SHOOTING RECORD

| Date | Shell used | Explosive used | Quantity | Rate | Depth shot | Depth obtained |
|------|------------|----------------|----------|------|------------|----------------|
| | | | | | | |

TOOLS USED

Rotary tools were used from _____ Surface feet to _____ feet, and from _____ feet to _____ feet
 Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

April 30, 1952 Put to producing April 5, 1952
 The production for the first 24 hours was 135 barrels of fluid of which 10% was oil, 10% emulsion, 80% water, and 10% sediment. Gravity, 74.5
 If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____
 Rock pressure, lbs. per sq. in. _____

EMPLOYEES

Manager-Drilling Driller _____ Driller _____
 Odeasa, Texas _____ Driller _____

FORMATION RECORD

| FROM | TO | TOTAL FEET | FORMATION |
|------|------|------------|----------------|
| 0 | 205 | 205 | Sand and shale |
| 205 | 390 | 185 | Sand |
| 390 | 6735 | 6345 | Sand and shale |
| | | | 205' |
| | | | Richard Cliffs |
| | | | Cliff House |
| | | | Menefee |
| | | | Point Lookout |
| | | | Tecite |

354

EXHIBIT E

U. S. GEOLOGICAL SURVEY
DEPARTMENT OF THE INTERIOR
LOG OF OIL OR GAS WELL

Section 10

LOCATE WELL CORRECTLY

Company Lowry et al. Operating Account Address 514 E. Central, Albuquerque, N.M.
 Lessor or Trust A. C. Melan Field Pollinger-Tecite State State New Mexico
 Well No. 7-15-109 Sec. 10 T. 25N R. 6E Meridian N.M.P.M. County Rio Arriba
 Location 660 ft. (N) of N. Line and 660 ft. (E) of E. Line of Section 10 Elevation 6600 ft.
 The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records. Signed /s/ E. R. Richardson
 Date February 10, 1952 Title Assistant General Manager
 The summary on this page is for the condition of the well at above date.
 Commenced drilling April 10, 1952 Finished drilling April 19, 1952

OIL OR GAS SANDS OR ZONES
(Designate by No.)

No. 1, from _____ to _____ No. 4, from _____ to _____
 No. 2, from _____ to _____ No. 5, from _____ to _____
 No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from _____ to _____
 No. 2, from _____ to _____

CASING RECORD

| Date | Size | Depth | Material | Weight | Remarks |
|--------|-------|-------|----------|--------|---------|
| 11 3/8 | 1 1/2 | 15 | 250 | 120 | Surface |
| 1 1/2 | 1 1/2 | 15 | 250 | 120 | Surface |
| 1 1/2 | 1 1/2 | 15 | 250 | 120 | Surface |

MUDDING AND CEMENTING RECORD

| Date | When set | Number sacks of cement | Method used | Mud quantity | Amount of mud used |
|--------|----------|------------------------|-------------|--------------|--------------------|
| 11 3/8 | 15 | 250 | Plug | | |
| 1 1/2 | 15 | 135 | Plug | | |
| 1 1/2 | 15 | 135 | Plug | | |

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____
 Adapter—Material _____ Slip _____

SHOOTING RECORD

| Date | Shell used | Explosive used | Quantity | Rate | Depth shot | Depth obtained |
|------|------------|----------------|----------|------|------------|----------------|
| | | | | | | |

TOOLS USED

Rotary tools were used from _____ Surface feet to _____ feet, and from _____ feet to _____ feet
 Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

August 21, 1952 Put to producing August 21, 1952
 The production for the first 24 hours was 37.82 barrels of fluid of which 100% was oil, 0% emulsion, 0% water, and 0% sediment. Gravity, 74
 If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____
 Rock pressure, lbs. per sq. in. _____

EMPLOYEES

Manager-Drilling Driller _____ Driller _____
 Making Brilliant Company _____ Driller _____

FORMATION RECORD

| FROM | TO | TOTAL FEET | FORMATION |
|------|------|------------|---------------------|
| 0 | 105 | 105 | Line & shale |
| 105 | 280 | 175 | Sand & shale |
| 280 | 312 | 32 | Shale |
| 312 | 335 | 23 | Sand and shale |
| 335 | 1001 | 666 | Shale |
| 1001 | 1190 | 189 | Sand and shale |
| 1190 | 1410 | 220 | Sandy shale |
| 1410 | 1652 | 242 | Sand and shale |
| 1652 | 6308 | 4656 | Shale |
| 6308 | 7560 | 1252 | Sand and shale |
| 7560 | 7672 | 112 | Hard sand and shale |
| 7672 | 7676 | 4 | Sand and shale |
| 7676 | 7678 | 2 | Sand |
| 7678 | 7682 | 4 | Sand and shale |
| 7682 | 7682 | 0 | |
| | | | 260' |
| | | | Richard Cliffs |
| | | | Cliff House |
| | | | Menefee |
| | | | Point Lookout |
| | | | Tecite |
| | | | Dakota |
| | | | Morrison |

LANE RADIOACTIVITY LOG COMPANY
SO-34222 FILE NO.

Location of Well
EXHIBIT COMPANY: LOHRY ET AL.
 WELL: FEDERAL - FEDERAL NO. 1-134
 FIELD: SOUTH LARD AREA
 COUNTY: RIO ARIBO STATE: HAWAII
 LOCATION: SEC. 10-261-64

LOG MEAS. FROM R.D. 2. ELEV. 6590
 DRG. MEAS. FROM R.D. 2. ELEV. 6590
 MEN. DATUM: 1929 ELEV. 6560

| | | |
|----------------------------------|----------|----------|
| TYPE OF LOG | DATE | TIME |
| RUN NO. | 11-13-51 | 10:30 AM |
| TOTAL DEPTH (DRILLER) | 690 | |
| EFFECTIVE DEPTH (DRILLER) | 690 | |
| TOP OF LOGGED INTERVAL | 690 | |
| BOTTOM OF LOGGED INTERVAL | 695 | |
| TYPE OF FLUID IN HOLE | Oil | |
| FLUID LEVEL | WELL | |
| MAXIMUM RECORDED TEMP. | | |
| NEUTRON SOURCE STRENGTH & TYPE | | |
| SOURCE SPACING - IN. | 36 | |
| LENGTH OF MEASURING DEVICE - IN. | 3 | |
| O.D. OF INSTRUMENT - IN. | 3 3/8 | |
| TIME CONSTANT - SECONDS | 1 | |
| LOGGING SPEED FT. MIN. | 25 | |
| STATISTICAL VARIATION - IN. | 2 1/2 | |
| SENSITIVITY REFERENCE | 200 | |
| RECORDED BY | ALLEN | |
| WITNESSED BY | 200 | |

355

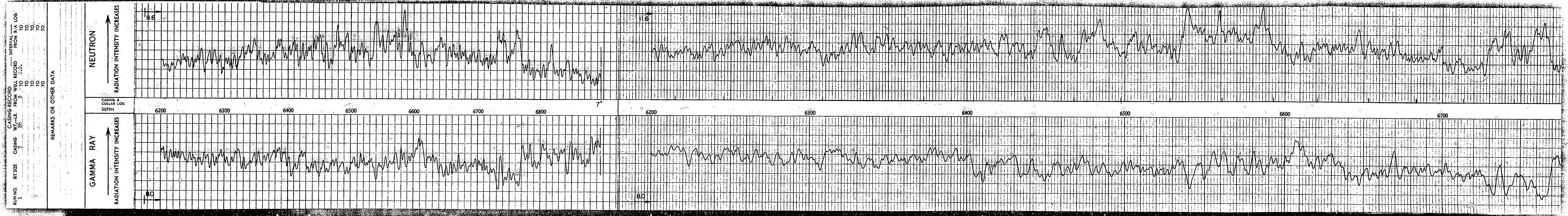
SCHLUMBERGER WELL SURVEYING CORPORATION
Electrical Log

Location of Well
 COMPANY: LOHRY ET AL.
 WELL: FEDERAL 7-35-109
 FIELD: 1-NGO
 LOCATION: SEC. 3-261-64
 COUNTY: RIO ARIBO STATE: HAWAII
 STATE: HAWAII

Elevation: D. 6440' ±
 or C. 6432'

EXHIBIT G

| | | | |
|----------------|----------|----------|----------|
| RUN No. | 108 | 110 | 118 |
| Date | 11-13-51 | 11-13-51 | 11-13-51 |
| First Reading | 66.0 | 66.0 | 66.0 |
| Last Reading | 66.0 | 66.0 | 66.0 |
| Feet Measured | 66.0 | 66.0 | 66.0 |
| Cap. Schlim. | 48.5 | 48.5 | 48.5 |
| Cap. Driller | 48.5 | 48.5 | 48.5 |
| Depth Reached | 66.0 | 66.0 | 66.0 |
| Bottom Driller | 66.0 | 66.0 | 66.0 |
| Depth Bottom | 66.0 | 66.0 | 66.0 |
| Mud Nat. | | | |
| Density | 10.6 | 10.4 | 10.4 |
| Viscosity | 40 | 40 | 40 |
| Res. BH | 14.0 | 14.0 | 14.0 |
| W. Loss | 0.0 | 0.0 | 0.0 |
| Max. Temp. F | 100 | 100 | 100 |
| Spots - AM | 10 | 10 | 10 |
| AO | | | |
| Obs. Rig Time | | | |
| Track No. | | | |
| Recorded By | | | |
| Witness By | | | |



Schlumberger Well Surveying Corporation
Electrical Log

COMPANY: ... LOCATION OF WELL: 660' Fr. 3/4" 660' Fr. 3/4" 55.3-26H-6.3

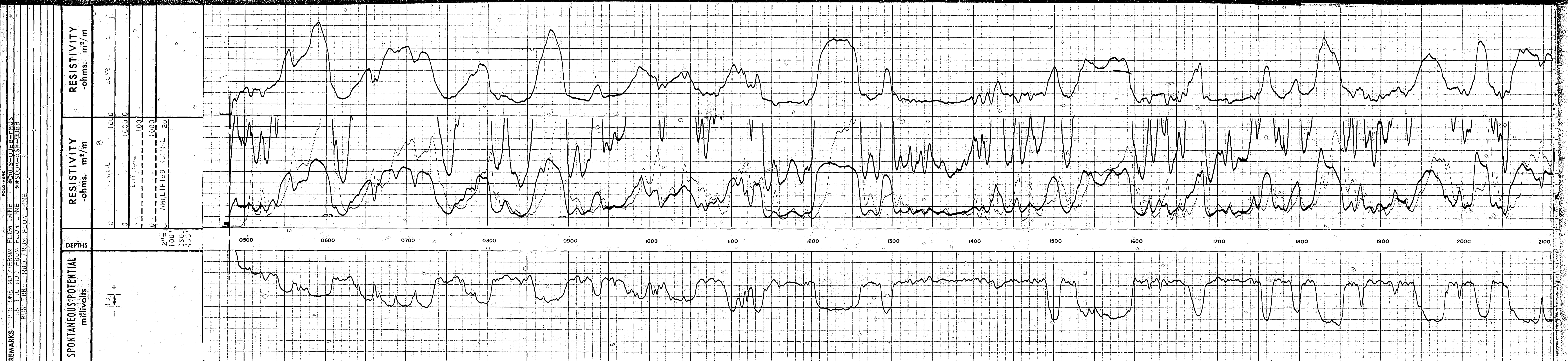
WELL: ... EXHIBIT: 6

FIELD: ... LOCATION: ... Elevation: 0.62423'

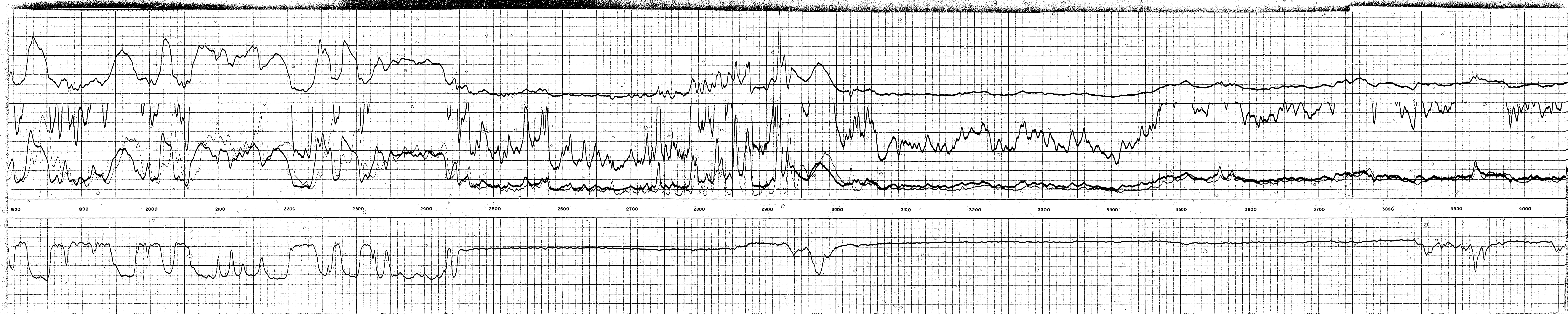
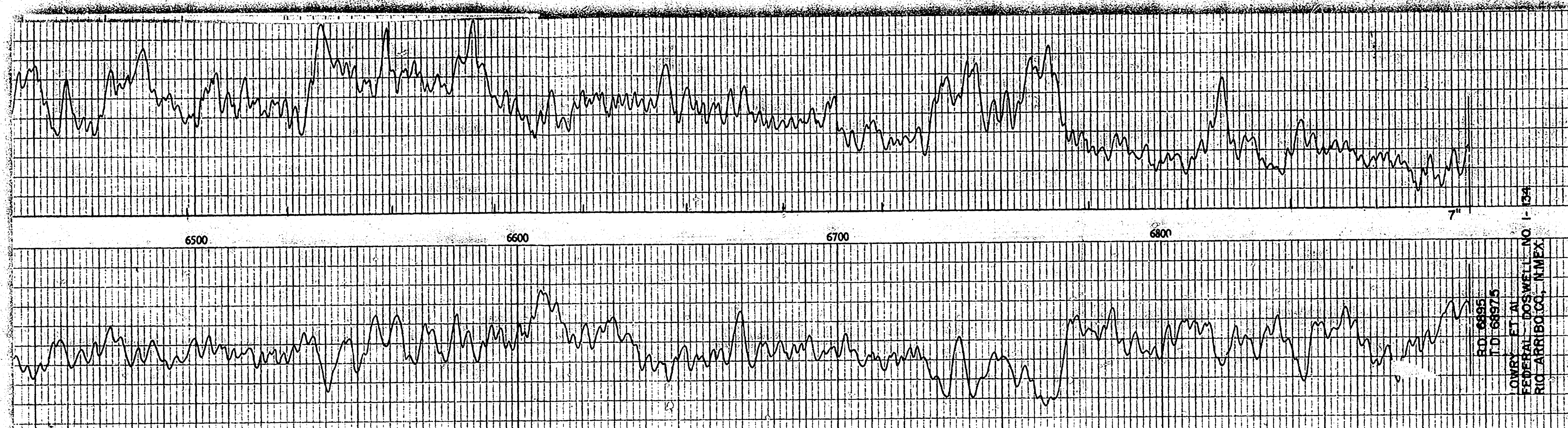
COUNTY: ... STATE: ... or G.L. 6524

FILE NO.:

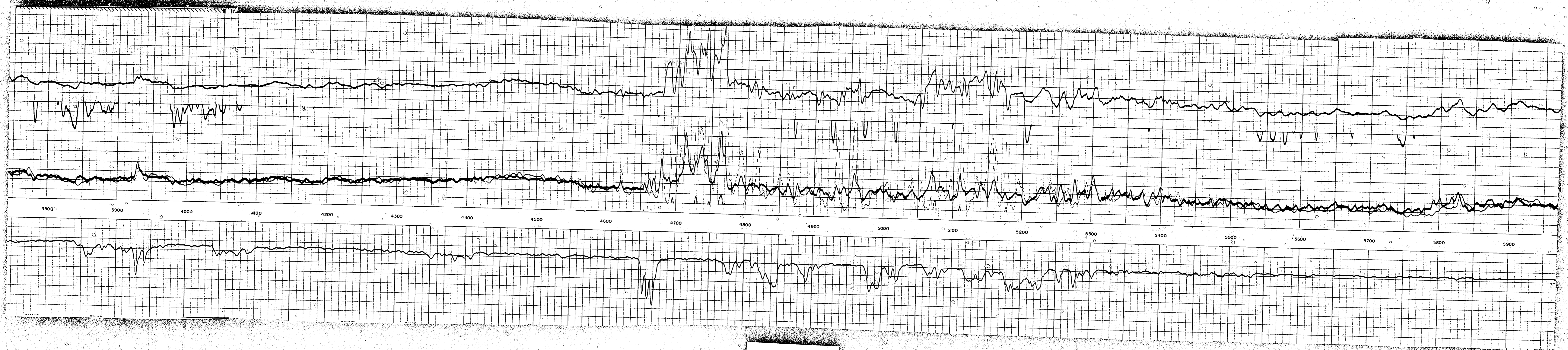
| | | |
|----------------|---------|-----------|
| RUN No. | ONE | 1.10 |
| Date | 5-22-52 | 1952-5-22 |
| First Reading | 8620 | 6.974 |
| Last Reading | 78 | 6640 |
| Feet Measured | 6157 | 36 |
| Log. Schum. | 263 | 283 |
| Log. Drill. | 260 | 430 |
| Depth Reached | 6624 | 6674 |
| Bottom Marker | 6640 | 6674 |
| Depth Bottom | 6640 | 6674 |
| Sp. Vel. | ... | ... |
| Density | 10.6 | 11.1 |
| Viscosity | ... | ... |
| Res. BHT | ... | ... |
| Wtr. Log | ... | ... |
| Max. Temp. | ... | ... |
| Bit Size | ... | ... |
| Spout | ... | ... |
| AO | ... | ... |
| Oper. Rig Time | ... | ... |
| Track No. | ... | ... |
| Recorded By | ... | ... |
| Witness By | ... | ... |



356



357



358



359

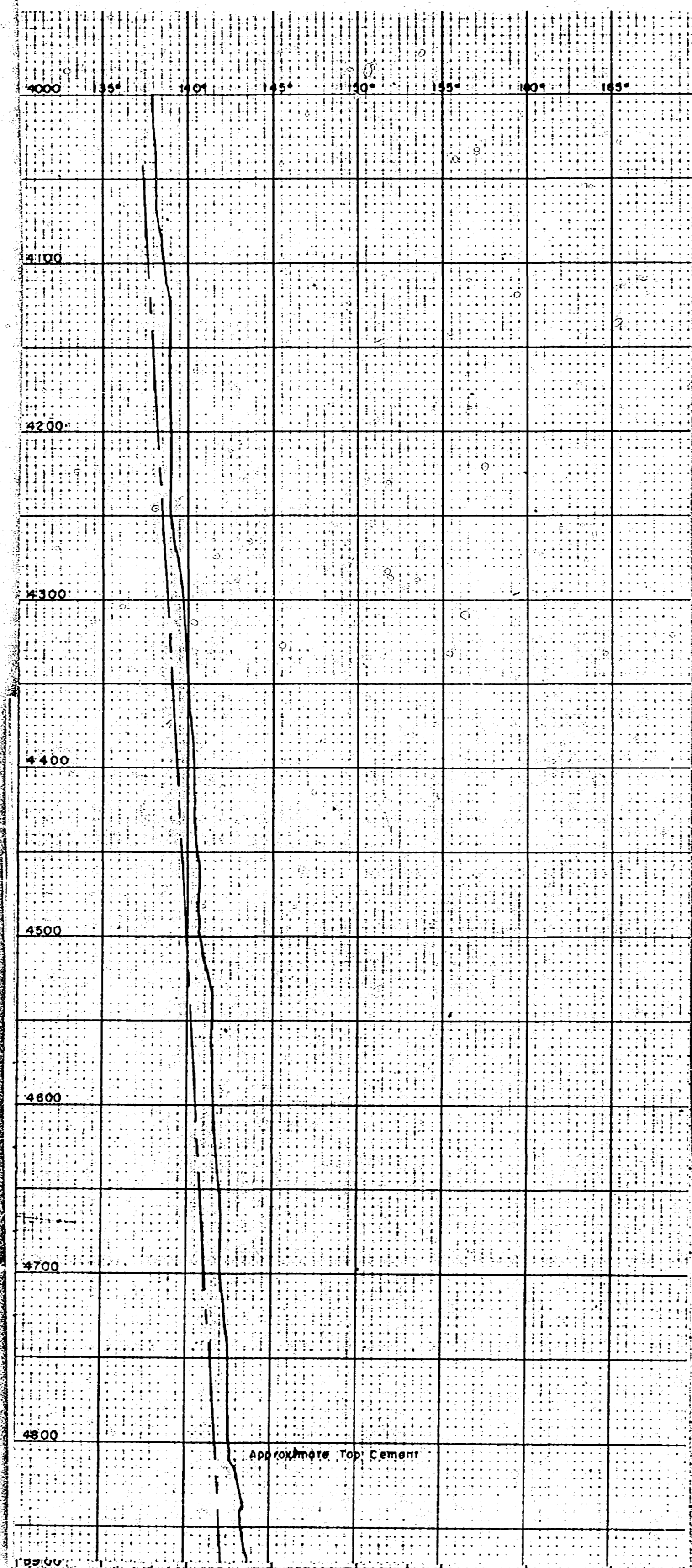
EXHIBIT I



TEMPERATURE SURVEY

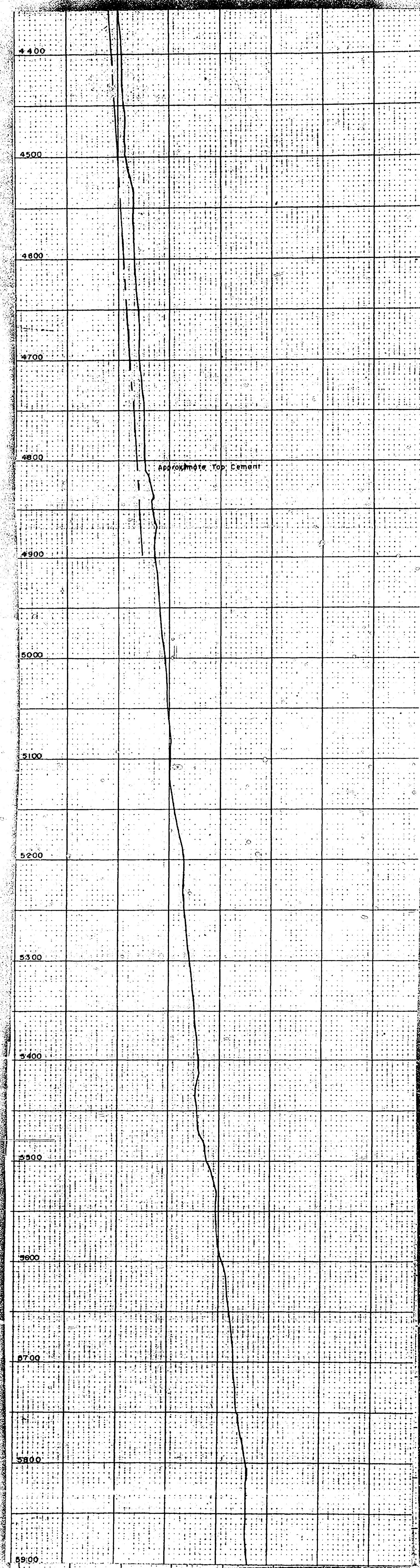
| | | | |
|---------------------------------------|---------------------------|--------------------|--------------------|
| Location | COMPANY THOMAS W. BOWWELL | | |
| | FILE | | |
| WELL | FEDERAL LAND # 1 | | |
| FIELD | WISCON | | |
| County | St. Albans | State New Mexico | |
| Sec. | Twp | Rge | |
| Survey | | | |
| Log Measured From | Top of shoe button | Elevation | |
| Drilling Measured From | Top of shoe button | Elevation | |
| Permanent Datum | 13 5/8" casing floor | Elevation | |
| Date of Cementing | 7 - 22 - 50 | Time 7:15 P.M. | |
| Date of Survey | 7 - 23 - 50 | Time 6:30 P.M. | |
| Amount of Cement | 300 sacks | Type 510-147 | |
| Amount of Admix | | Type | |
| Casing Size | Casing Depth | Diam. of Hole | Depth |
| 13 5/8" | from 0 to 315' | 17 1/8" | from 0 to 315' |
| 9 5/8" | from 0 to 2915' | 12" | from 315 to 2915' |
| 7" | from 0 to 7210' | 8 5/8" | from 2915 to 7210' |
| | from to | | from to |
| Survey Begins at | 4000 | Ft. Ends at | 7175 |
| Bottom Hole Temp. | 160 | °F. Max. Temp. | 82 |
| Run No. | One | Approx. Top Cement | 880 |
| Recorded by | M.B. Lewis | Witnessed by | J.J. Myers |
| REMARKS OR OTHER DATA | | | |
| Elevation and Location (if available) | | | |

TEMPERATURE IN DEGREES FAHRENHEIT

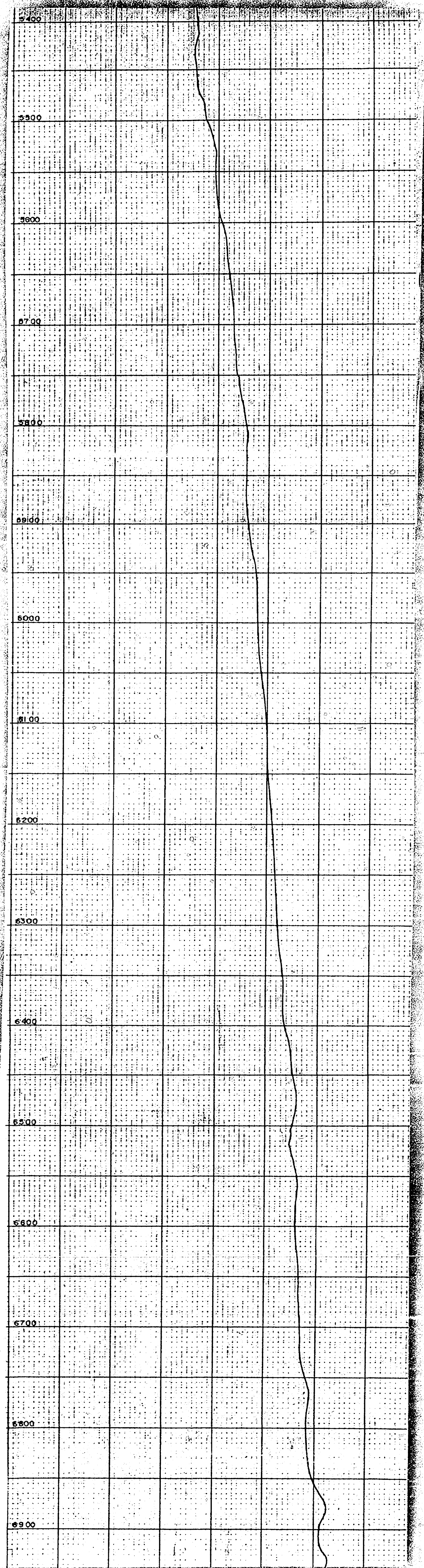


360

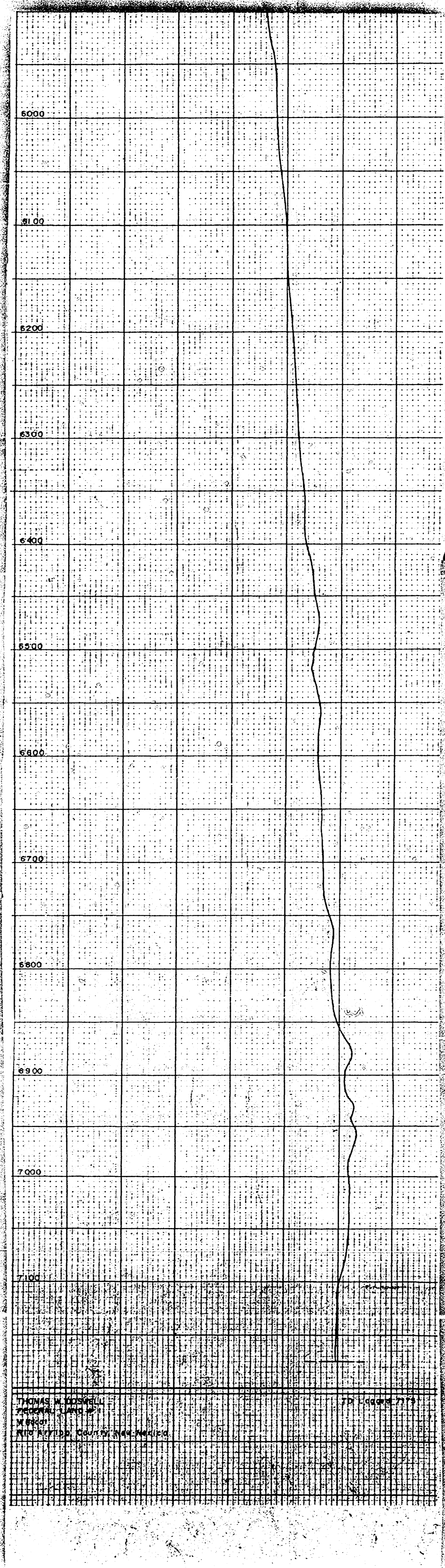
361



362



363



SCHLUMBERGER WELL SURVEYING CORPORATION
Temperature Log

| | |
|--|---|
| COMPANY LAHRT ET AL WELL F-DE-RAL 7-35-109 FIELD ALLDCAI LOCATION SEC. 3-26N-6W COUNTY RIO ARriba STATE NEW MEXICO | Location of Well 860' FR S/L 660' FR W/L SEC. 3-26N-6W EXHIBIT J Elevation D.F. 6494 K.B. GL-5484 FILING No. |
| Date 3-30-52 Time Started 2300 Time Finished 0100 First Reading 6560 Last Reading 6500 Footage Measured 1800 Max. Depth Reached 6560 Bottom Driller 6643 Hole Size 9 7/8" Casing Size 7 7/8" Depth Datum 808 Mud Date None Nature 0 Resistivity 0 F Field Level 0 Max. Temp. 110 Circulation Date 3-30 Date 3-30 Time Started 0130 Time Finished 0130 Circulation Date 3-30 Date 3-30 Time Started 0130 Time Finished 0130 A-Cement Top Determination 3-30-52 Time Released 2130 1) Date Pressure Released 3-30-52 2) Amount Cement 175 REG. SACKS 3) Calculated Top 6643 4) Depth of Plug 6643 B-Location of Oil and Gas 1) Casing Shoe Driller 6673 2) Date Drilling Stopped 7-22-52 Time Stopped | |
| Truck No. 792-FARR Recorded By DANIELS Witnessed By GGAT | |

364

SCHLUMBERGER WELL SURVEYING CORPORATION

| | |
|--|--|
| COMPANY LAHRT ET AL WELL FEDERAL 8-11-83 FIELD ALLDCAI LOCATION SEC. 3-26N-6W COUNTY RIO ARriba STATE NEW MEXICO | Location of Well 860' FR W/L 1860' FR S/L SEC. 3-26N-6W EXHIBIT K Elevation D.F. 6494 K.B. GL-5484 FILING No. |
| Date 3-30-52 Time Started 2300 Time Finished 0100 First Reading 6560 Last Reading 6500 Footage Measured 1800 Max. Depth Reached 6560 Bottom Driller 6643 Hole Size 9 7/8" Casing Size 7 7/8" Depth Datum 808 Mud Date None Nature 0 Resistivity 0 F Field Level 0 Max. Temp. 110 Circulation Date 3-30 Date 3-30 Time Started 0130 Time Finished 0130 Circulation Date 3-30 Date 3-30 Time Started 0130 Time Finished 0130 A-Cement Top Determination 3-30-52 Time Released 2130 1) Date Pressure Released 3-30-52 2) Amount Cement 175 REG. SACKS 3) Calculated Top 6643 4) Depth of Plug 6643 B-Location of Oil and Gas 1) Casing Shoe Driller 6673 2) Date Drilling Stopped 7-22-52 Time Stopped | |
| Truck No. 792-FARR Recorded By DANIELS Witnessed By GGAT | |

Schlumberger Well Surveying Corporation
Temperature Log

COMPANY: LUMRY ET AL
 WELL: FEDERAL 7-35-109
 FIELD: HILDCAT
 LOCATION: SEC. 3-26N-6W
 COUNTY: RIO ARriba
 STATE: NEW MEXICO

Location of Well: 660' FR S/L
 660' FR W/L
 SEC. 3-26N-6W
 Elevation: D.F. 6494
 or G.L. 6484

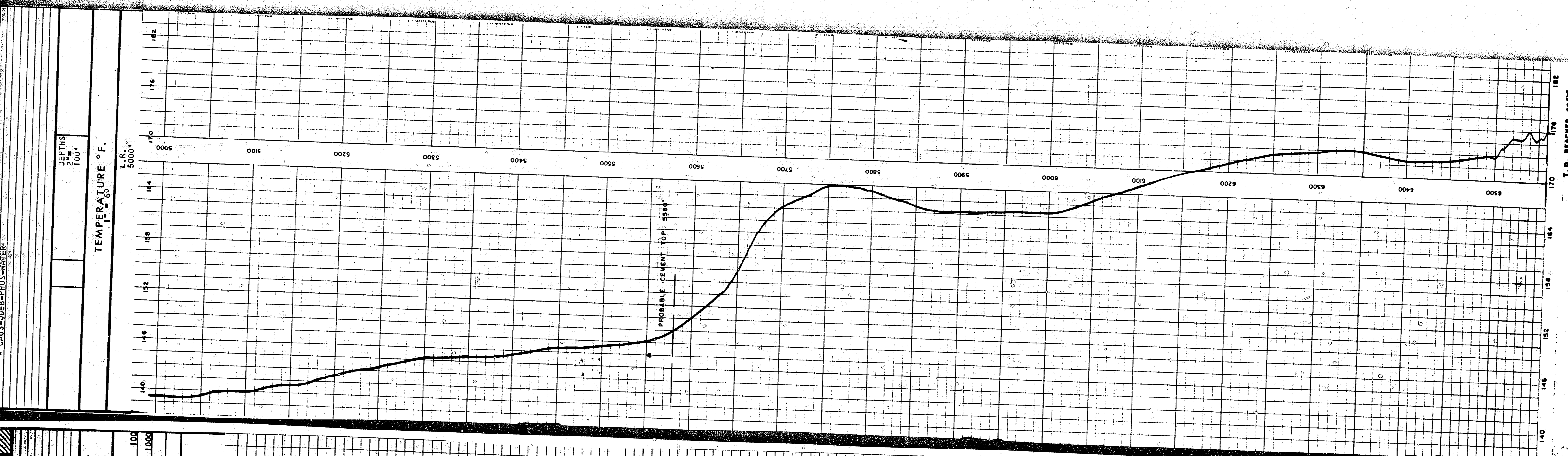
EXHIBIT: J
 T
 FILING No.:

Date: 3-30-52
 Time Started: 2:30
 Time Finished: 0100

First Reading: 65.0
 Last Reading: 65.0
 Footage Measured: 550
 Max. Depth Reached: 550
 Bottom Driller: 6643
 Hole Size: 7 7/8
 Casing Size: 6 3/4
 Depth Datum: 0
 Mud Data: Nature: 0
 Fluid level: 0
 Resistivity: 0
 Max. Temp.: 76
 Completion Date: 2-10
 Time Started: Time Finished: 0130
 Circulation Date: Date: Time Started: Time Finished:

1) Cement Top Determination: 4-30-52
 2) Amount Cement: 175 REG. SACKS
 3) Calculated Top: Time Released: 2:10
 4) Depth of Plug: 6643
 5) Location of Oil and Gas:
 6) Casing Shoe Driller: 6613
 7) Date Drilling Stopped: 7-2-52
 Time Stopped:

Truck No.: 752-FARM
 Recorded By: DAN ELLS
 Witnessed By: 0061



660' FR S/L
 660' FR W/L
 SEC. 3-26N-6W
 ELEV. 6484 G.L.

Schlumberger Well Surveying Corporation

COMPANY: LUMRY ET AL
 WELL: FEDERAL 7-35-109
 FIELD: HILDCAT
 LOCATION: SEC. 3-26N-6W
 COUNTY: RIO ARriba
 STATE: NEW MEXICO

Location of Well: 660' FR S/L
 660' FR W/L
 SEC. 3-26N-6W
 Elevation: D.F. 6494
 or G.L. 6484

EXHIBIT: J
 T
 FILING No.:

Date: 3-30-52
 Time Started: 2:30
 Time Finished: 0100

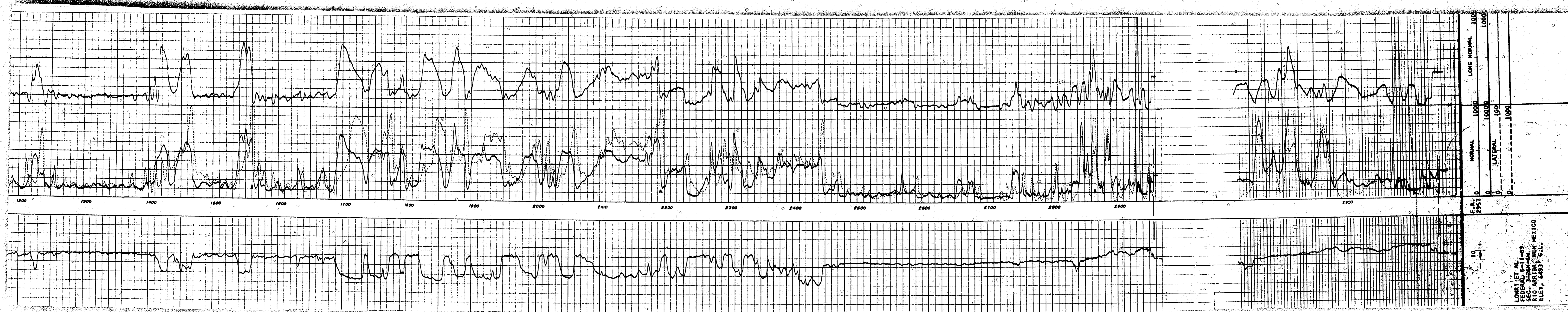
First Reading: 65.0
 Last Reading: 65.0
 Footage Measured: 550
 Max. Depth Reached: 550
 Bottom Driller: 6643
 Hole Size: 7 7/8
 Casing Size: 6 3/4
 Depth Datum: 0
 Mud Data: Nature: 0
 Fluid level: 0
 Resistivity: 0
 Max. Temp.: 76
 Completion Date: 2-10
 Time Started: Time Finished: 0130
 Circulation Date: Date: Time Started: Time Finished:

1) Cement Top Determination: 4-30-52
 2) Amount Cement: 175 REG. SACKS
 3) Calculated Top: Time Released: 2:10
 4) Depth of Plug: 6643
 5) Location of Oil and Gas:
 6) Casing Shoe Driller: 6613
 7) Date Drilling Stopped: 7-2-52
 Time Stopped:

Truck No.: 752-FARM
 Recorded By: DAN ELLS
 Witnessed By: 0061



365



366

LOWET AL-88
SEC. 2-2-88
E.L. 4-25-88

NORTH

SOUTH

MAGNOLIA NO. 3 MAXWELL
800' P.M. S. & E. LINES
SEC. 27 - 14 S. 27 E.
ELEV. 3851'

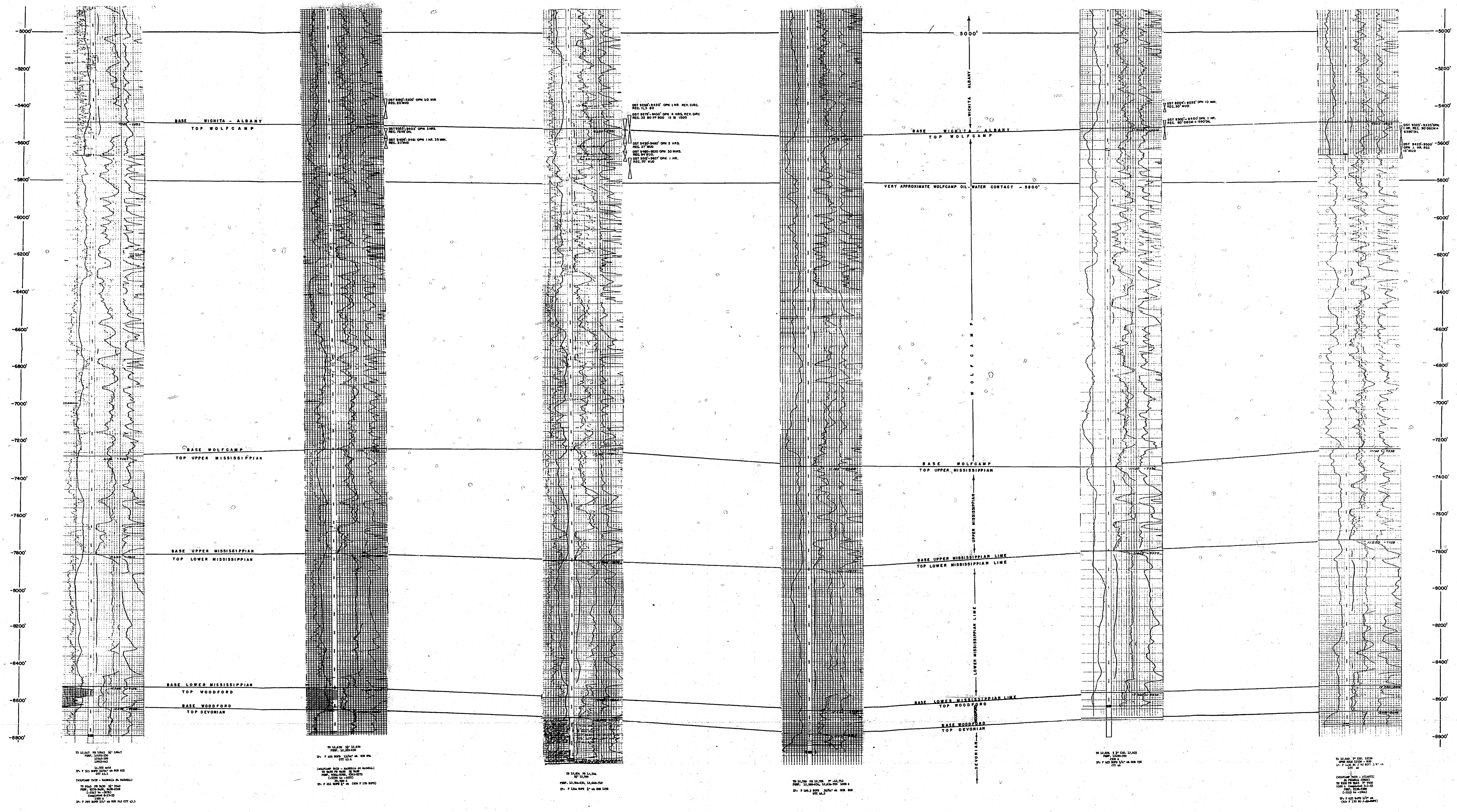
MAGNOLIA NO. 1 MAXWELL
800' P.M. S. & E. LINES
SEC. 27 - 14 S. 27 E.

PHILLIPS PET. NO. 1 FORT
800' P.M. S. & E. LINES
SEC. 27 - 14 S. 27 E.
ELEV. 3857'

ATLANTIC NO. 3A DICKINSON
800' P.M. S. & E. LINES
SEC. 27 - 14 S. 27 E.
ELEV. 3827'

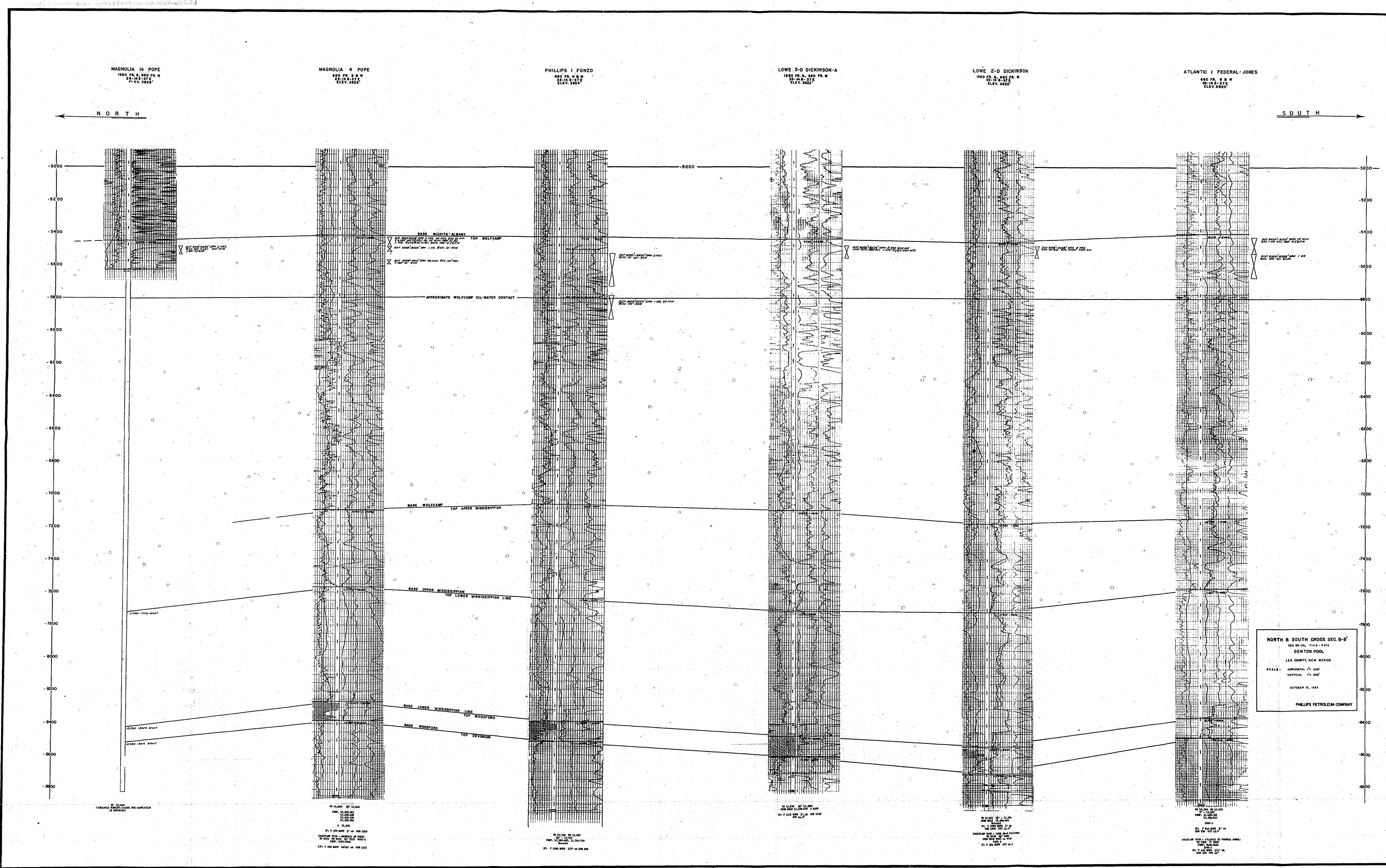
ATLANTIC NO. 2 DICKINSON A-34
800' P.M. S. & E. LINES
SEC. 27 - 14 S. 27 E.
ELEV. 3827'

ATLANTIC NO. 2 JONES
800' P.M. S. & E. LINES
SEC. 27 - 14 S. 27 E.
ELEV. 3827'

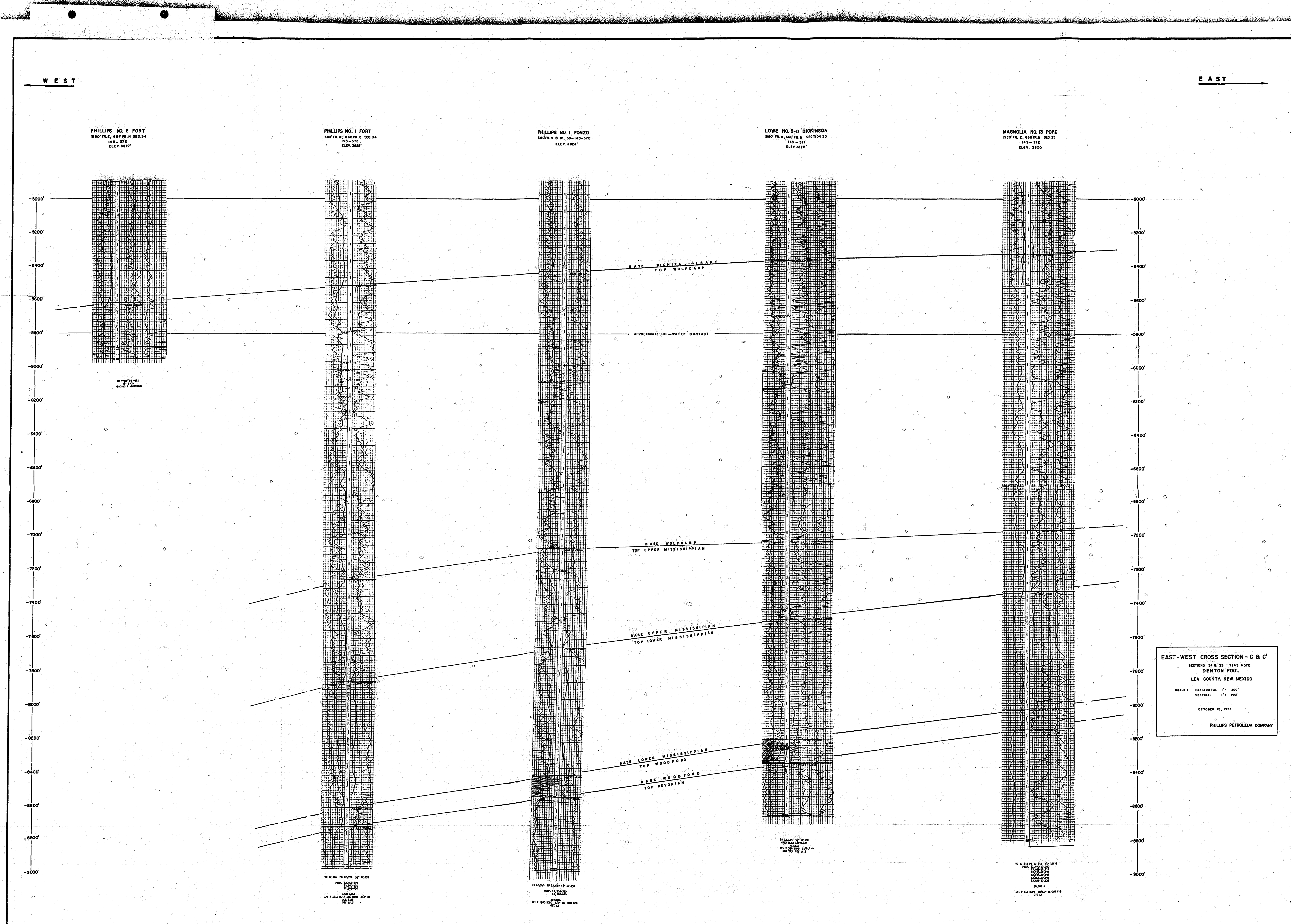


NORTH-SOUTH CROSS SECTION A & A'
SEC. 27 & 34 T. 14 S. R. 27 E.
DENTON POOL
LEA COUNTY, NEW MEXICO
SCALE -
HORIZONTAL 1" = 200'
VERTICAL 1" = 200'
OCTOBER 12, 1933
PHILLIPS PETROLEUM COMPANY

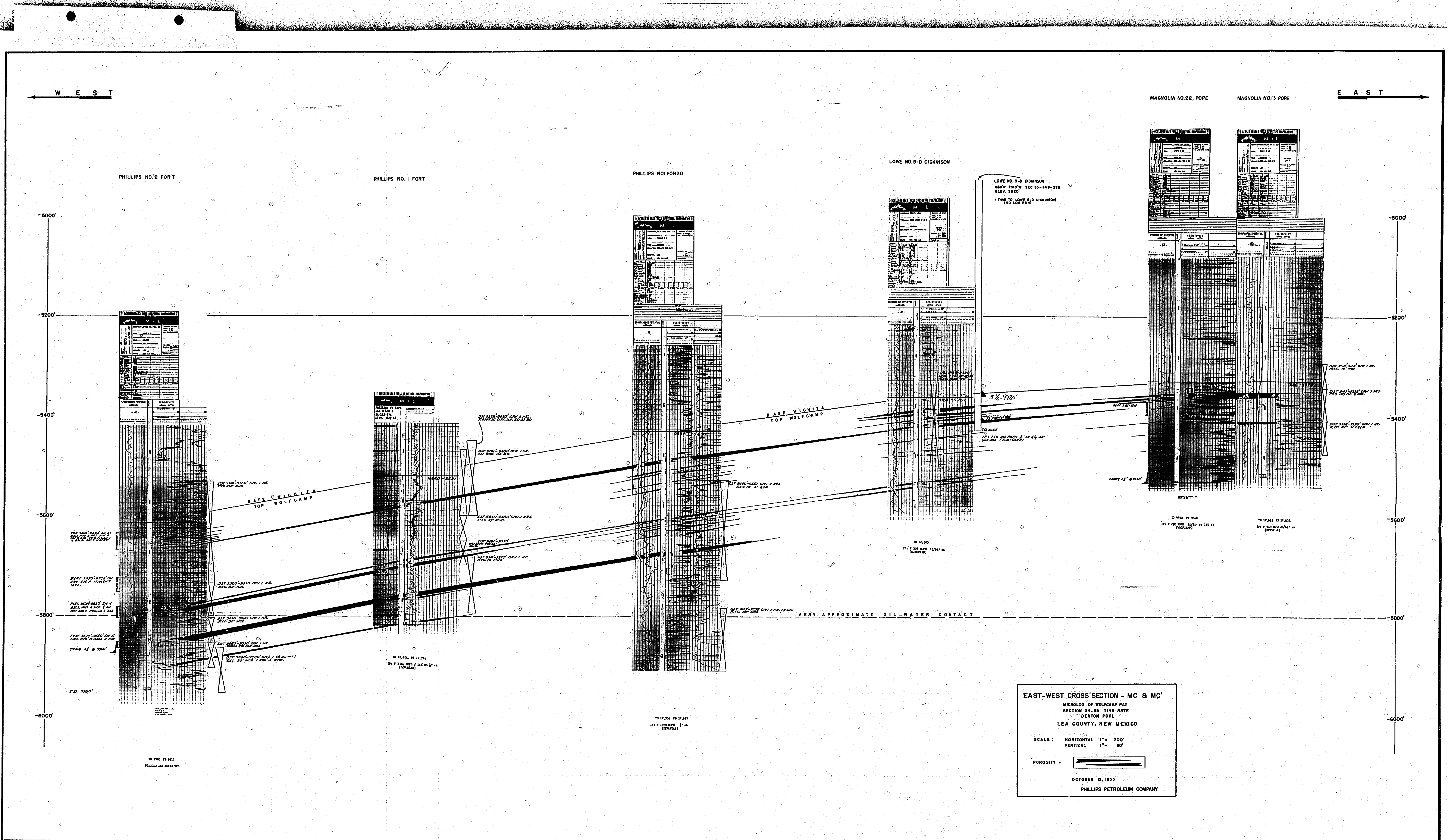
367



368



369



370

NORTH

SOUTH

MAGNOLIA NO. 3 MAXWELL
SEC. 24, T. 20N, R. 18E
SEC. 27-14S-37E
ELEV. 5837'

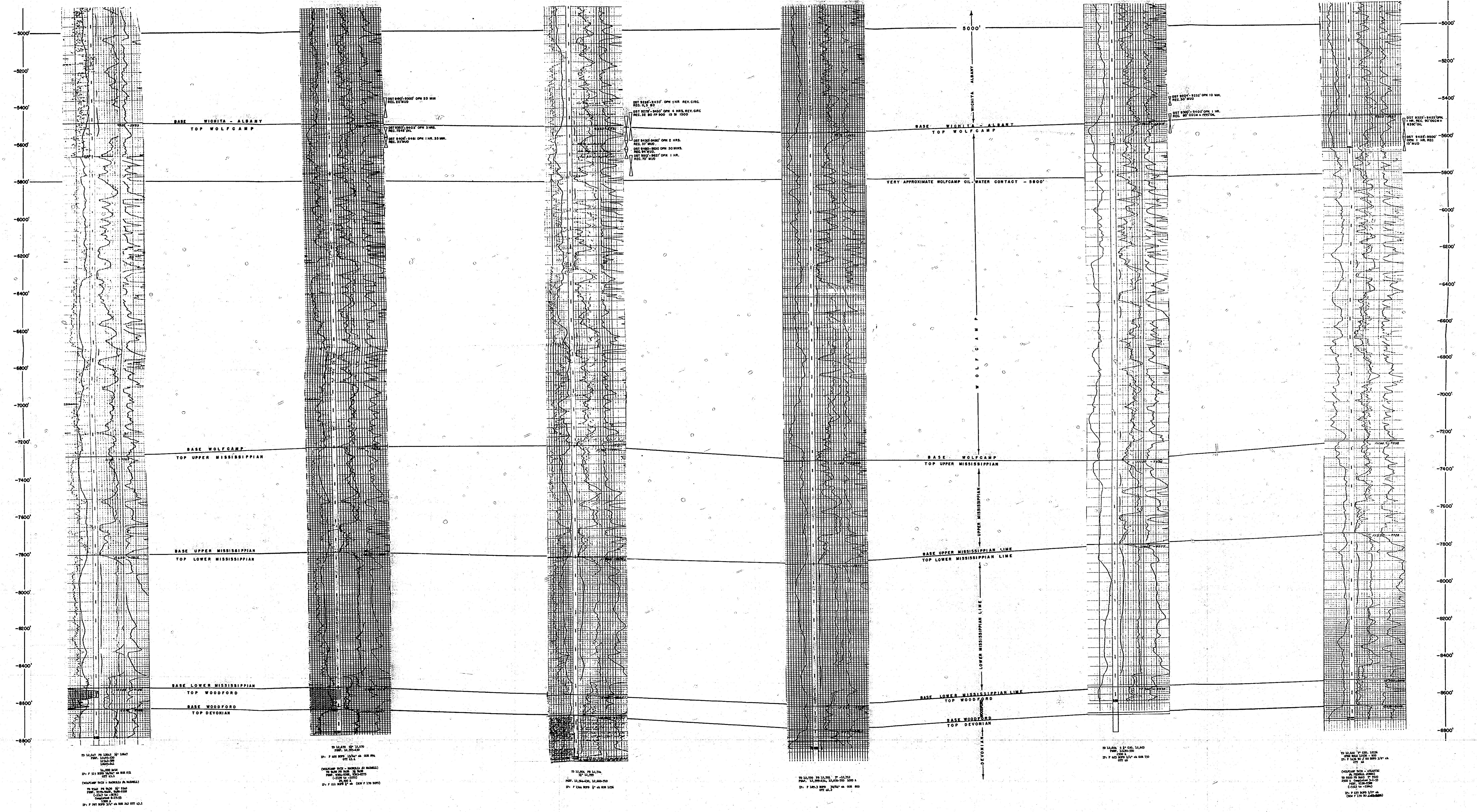
MAGNOLIA NO. 1 MAXWELL
SEC. 24, T. 20N, R. 18E
SEC. 27-14S-37E
ELEV. 5837'

PHILLIPS PET. NO. 1 FORT
SEC. 24, T. 20N, R. 18E
SEC. 27-14S-37E
ELEV. 5837'

ATLANTIC NO. 3A DICKINSON
SEC. 24, T. 20N, R. 18E
SEC. 27-14S-37E
ELEV. 5837'

ATLANTIC NO. 2 DICKINSON A-34
SEC. 24, T. 20N, R. 18E
SEC. 27-14S-37E
ELEV. 5837'

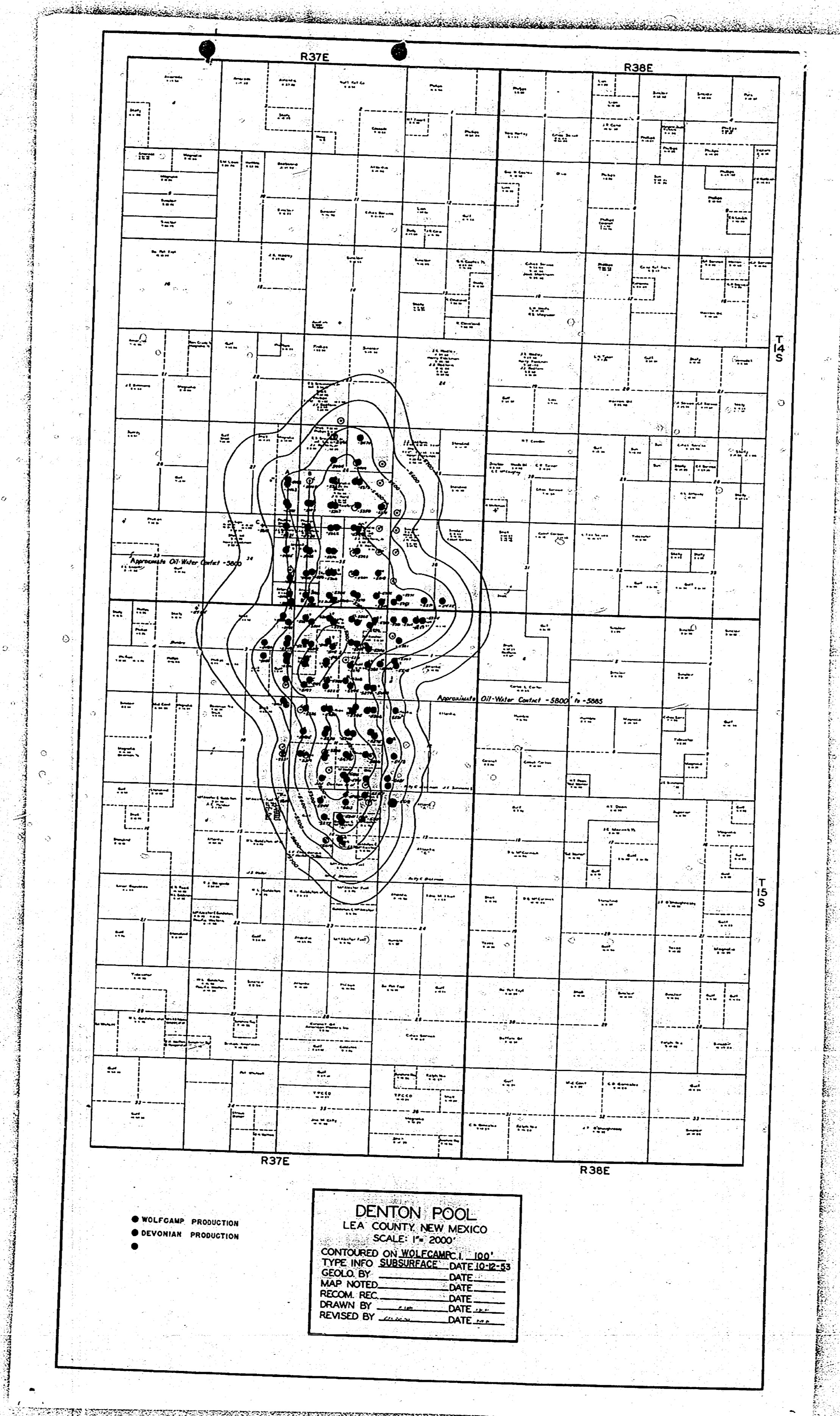
ATLANTIC NO. 2 JONES
SEC. 24, T. 20N, R. 18E
SEC. 27-14S-37E
ELEV. 5837'

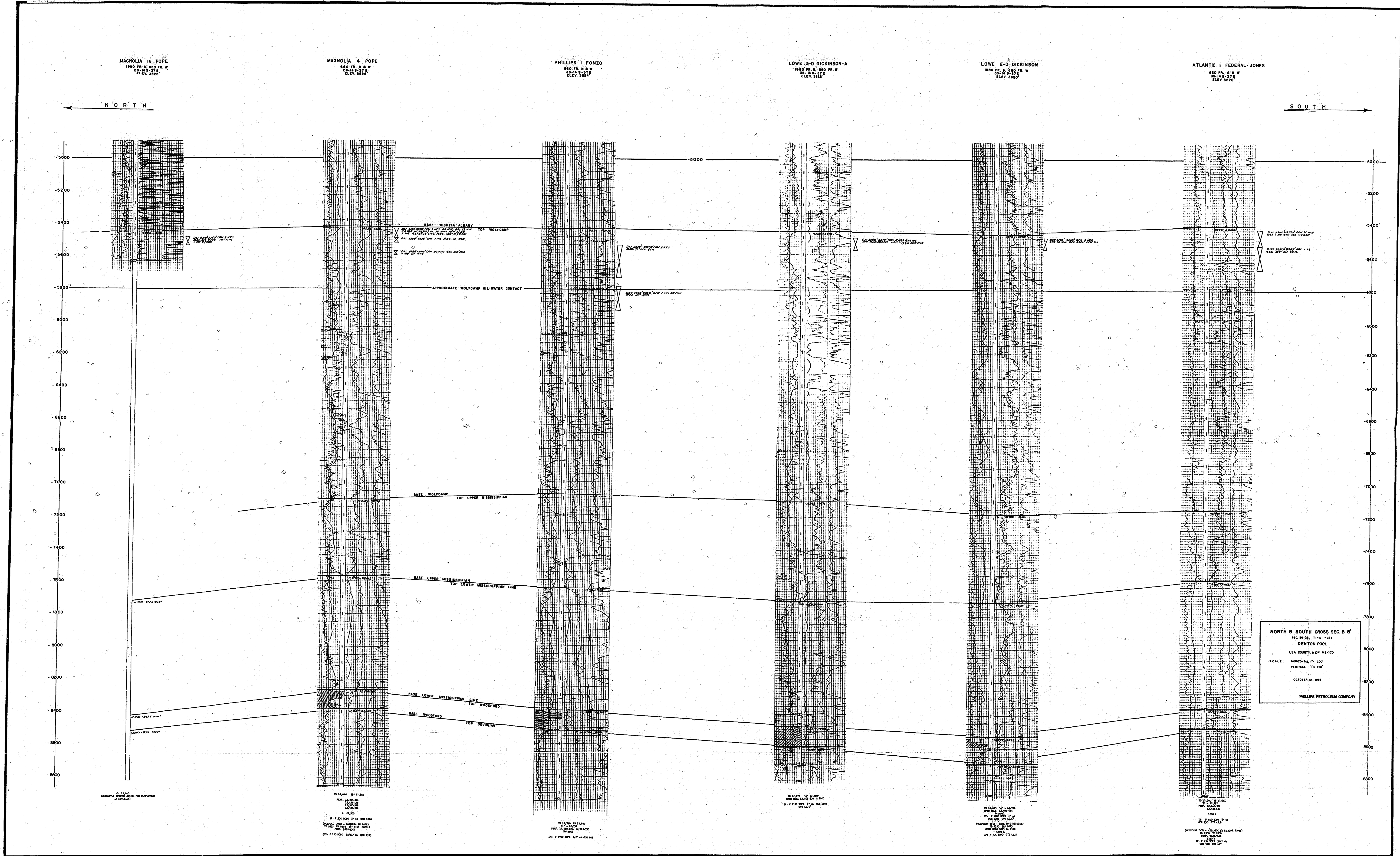


NORTH-SOUTH CROSS SECTION A & A'
 SEC. 24, T. 20N, R. 18E
 DENTON POOL
 LEA COUNTY, NEW MEXICO
 SCALE:
 HORIZONTAL 1" = 200'
 VERTICAL 1" = 200'
 OCTOBER 12, 1953
 PHILLIPS PETROLEUM COMPANY

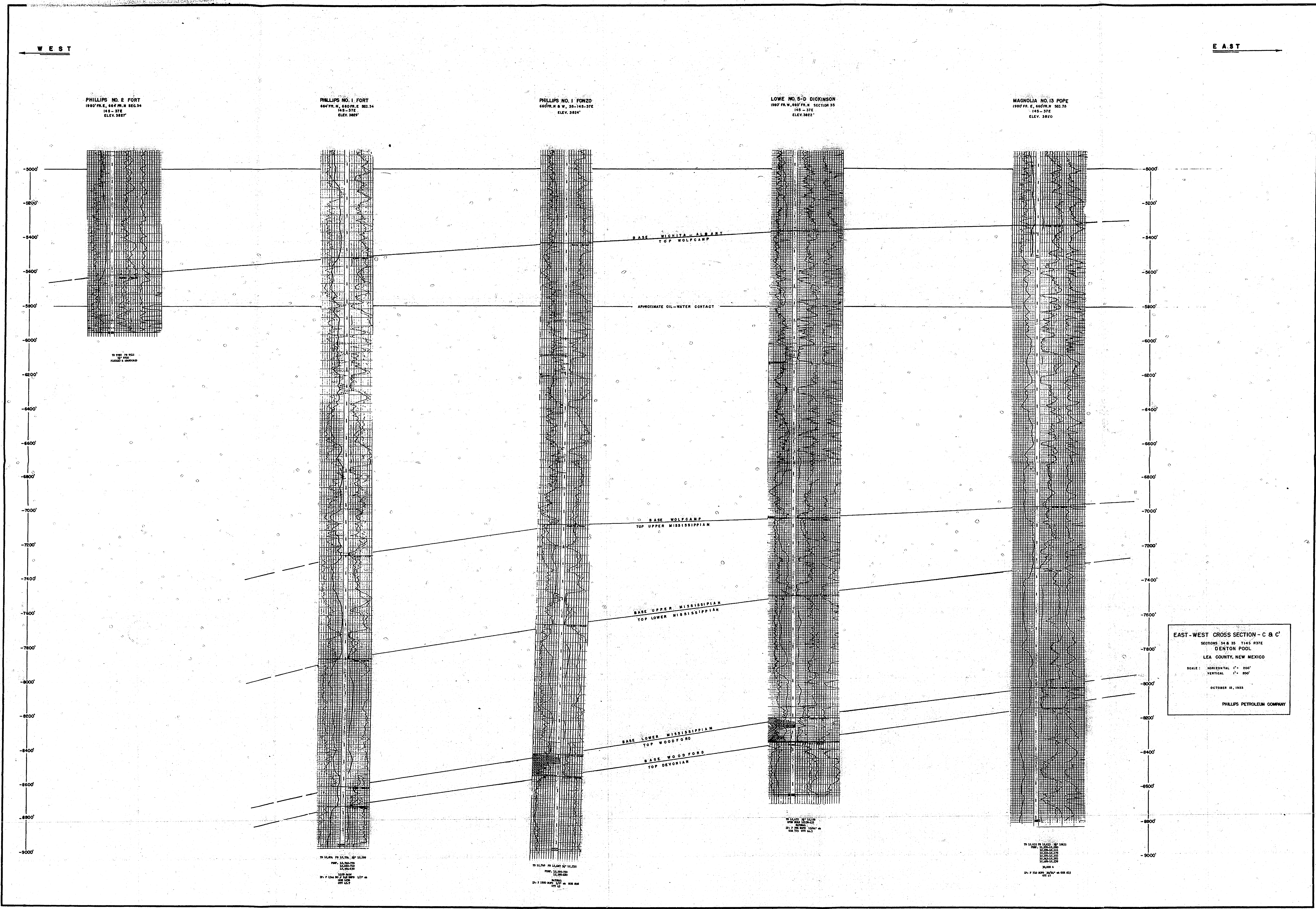
371

372

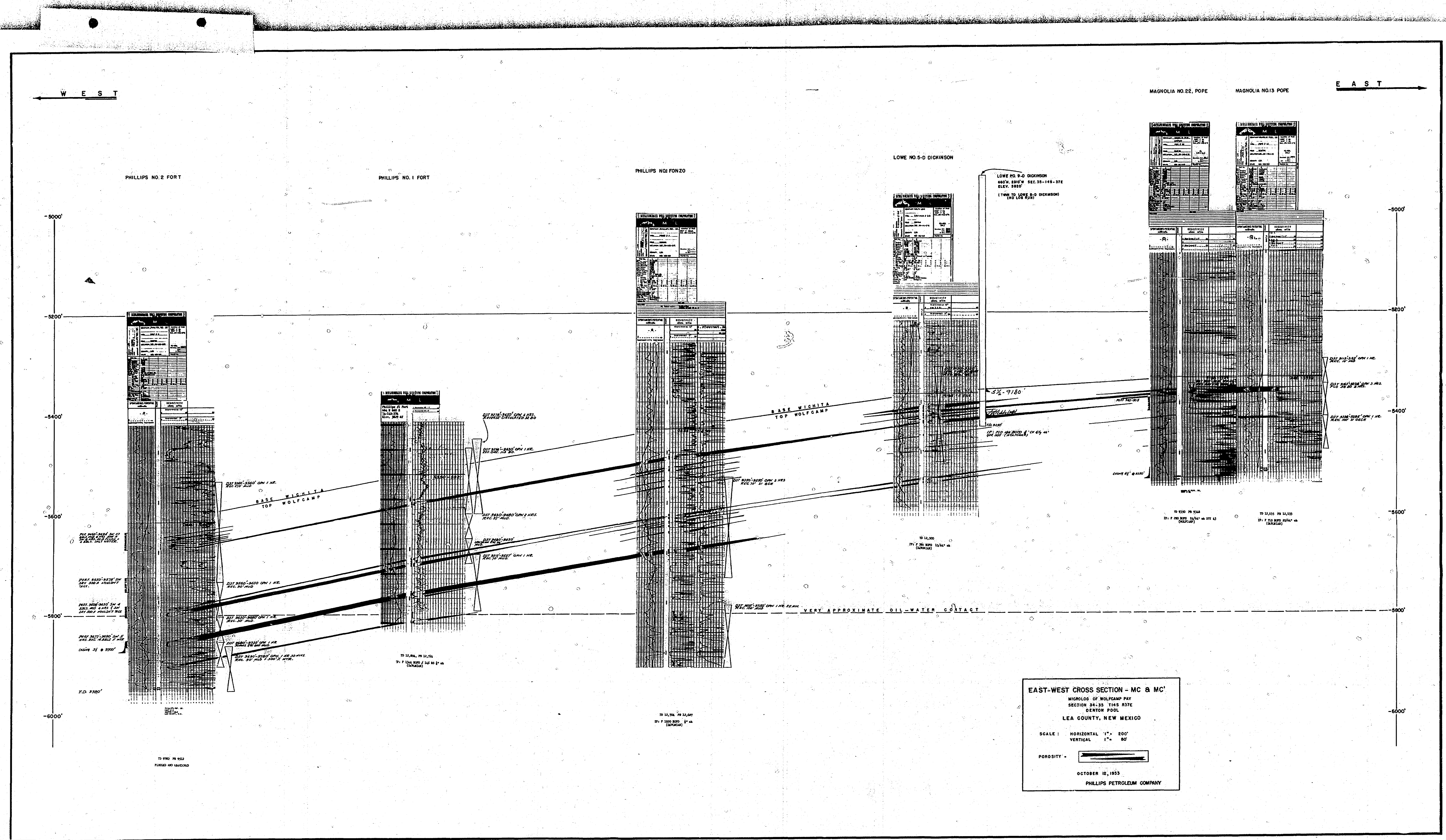




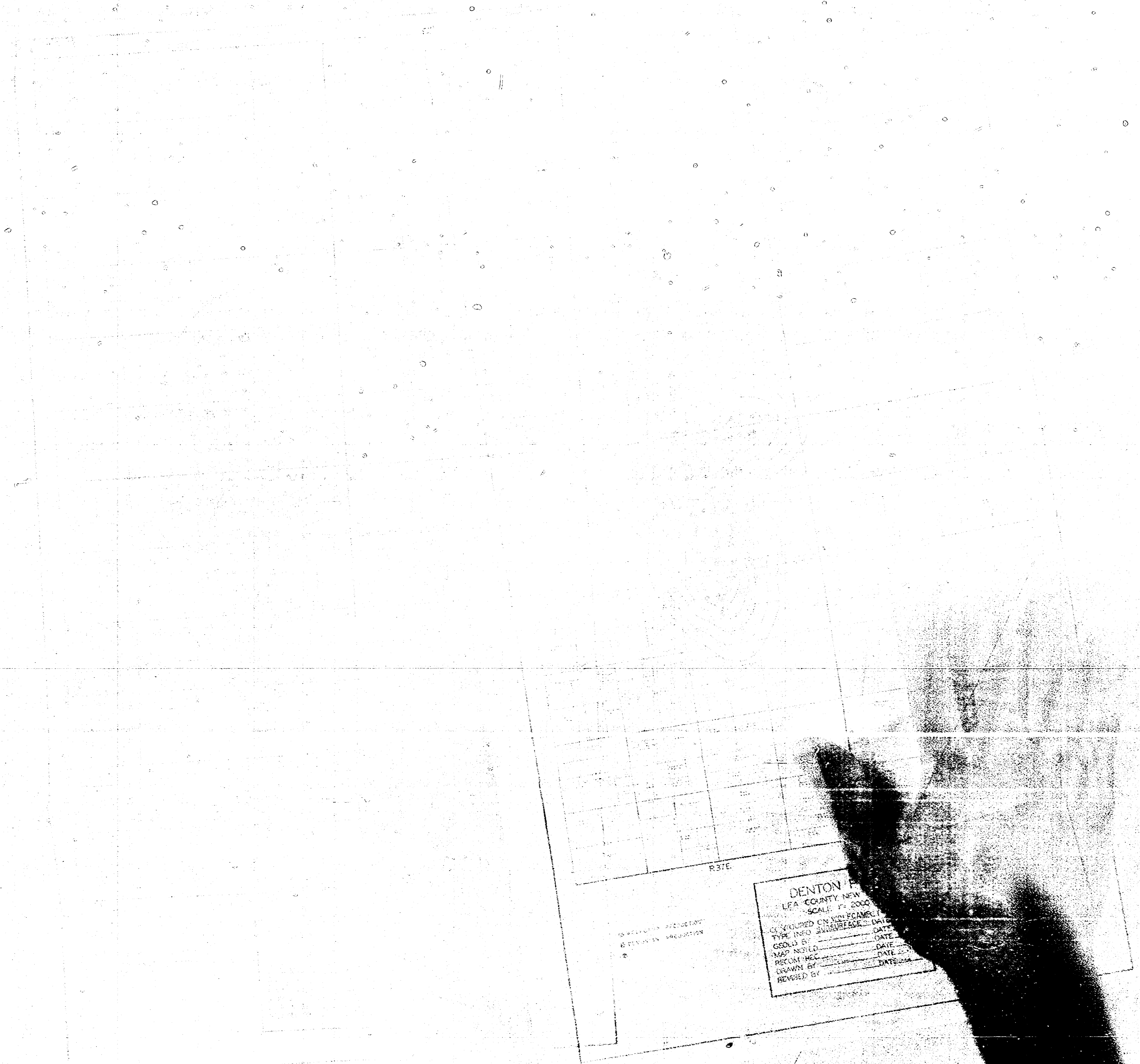
373



374

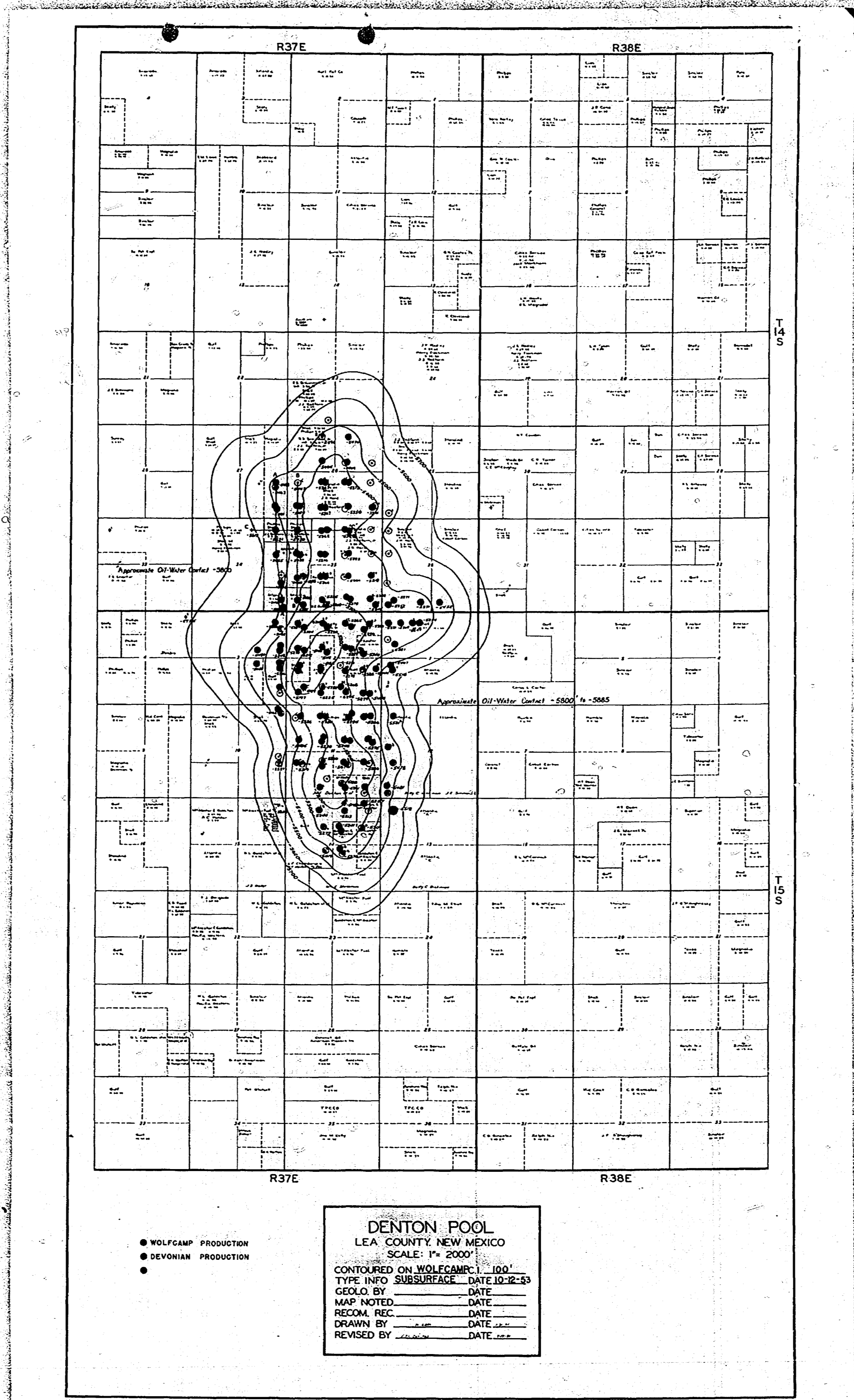


375



DENTON
LEA COUNTY
MADE IN U.S.A.
REPRODUCED ON UNIFORMED
THE PRO...
CITY OF...
NO. 1010...
REPRODUCED BY...
REPRODUCED BY...

376



NORTH

SOUTH

MAGNOLIA NO. 3 MAXWELL
847' N. 2 - 140' W. EAST
SEC. 27, 14 S. 37 E.
ELEV. 3927'

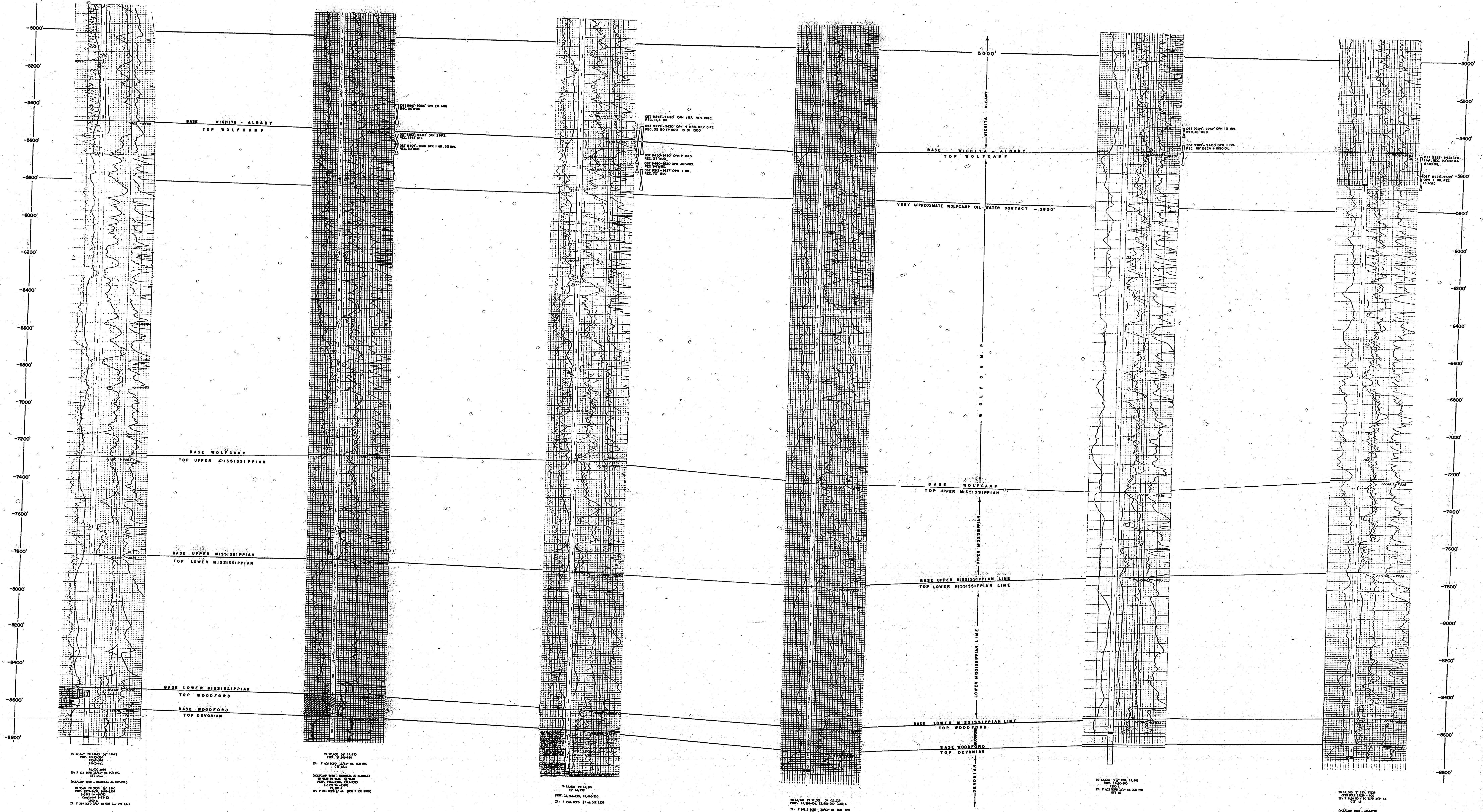
MAGNOLIA NO. 4 MAXWELL
847' N. 2 - 140' W. EAST
SEC. 27, 14 S. 37 E.
ELEV. 3927'

PHILLIPS PET. NO. 1 FORT
847' N. 2 - 140' W. EAST
SEC. 27, 14 S. 37 E.
ELEV. 3927'

ATLANTIC NO. 34 DICKINSON
847' N. 2 - 140' W. EAST
SEC. 27, 14 S. 37 E.
ELEV. 3927'

ATLANTIC NO. 2 DICKINSON A-34
847' N. 2 - 140' W. EAST
SEC. 27, 14 S. 37 E.
ELEV. 3927'

ATLANTIC NO. 2 JONES
847' N. 2 - 140' W. EAST
SEC. 27, 14 S. 37 E.
ELEV. 3927'

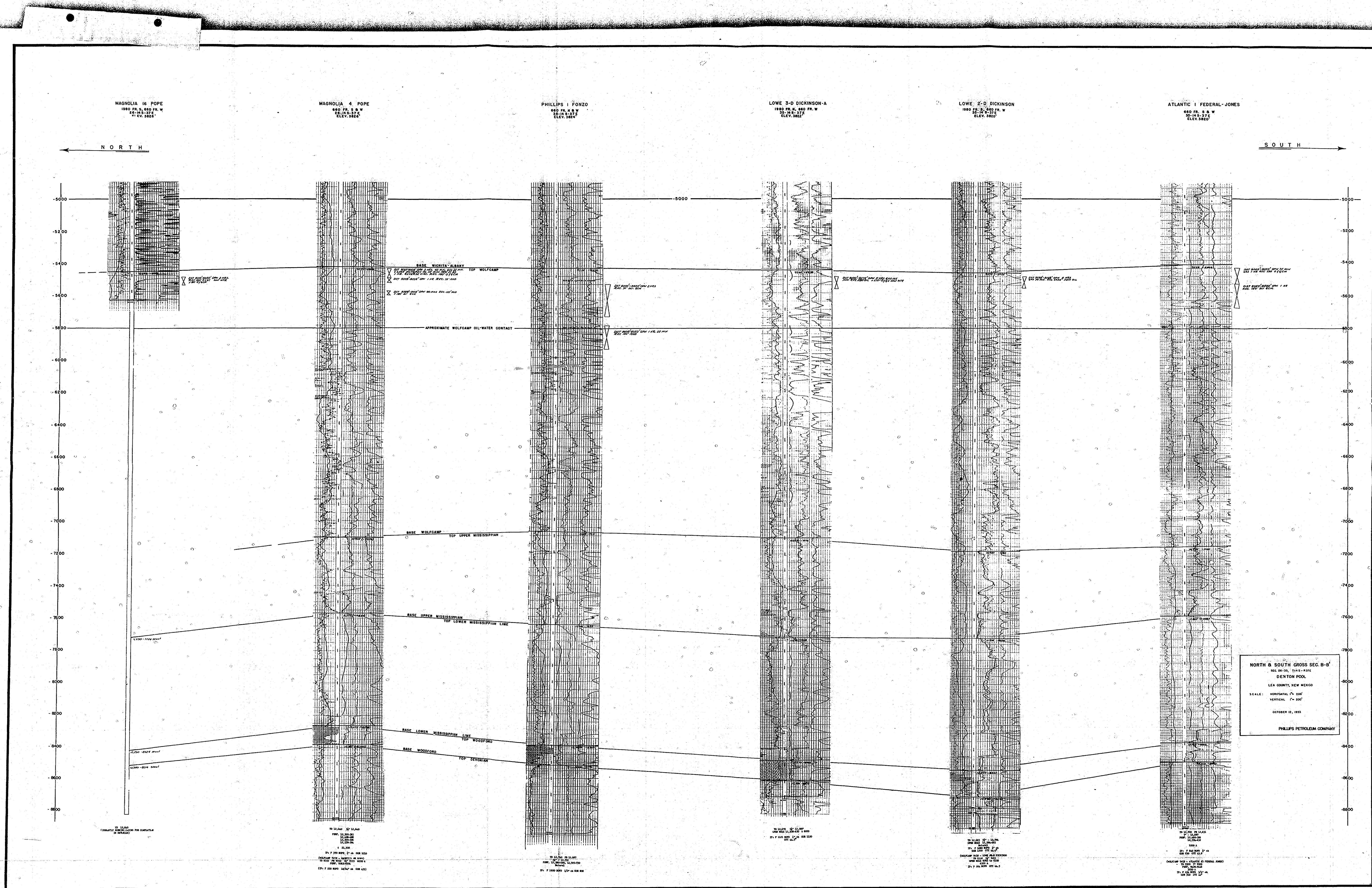


NORTH-SOUTH CROSS SECTION A & A'
 SEC. 27 & 34, T. 14 S. R. 37 E.
 DENTON POOL
 LEA COUNTY, NEW MEXICO

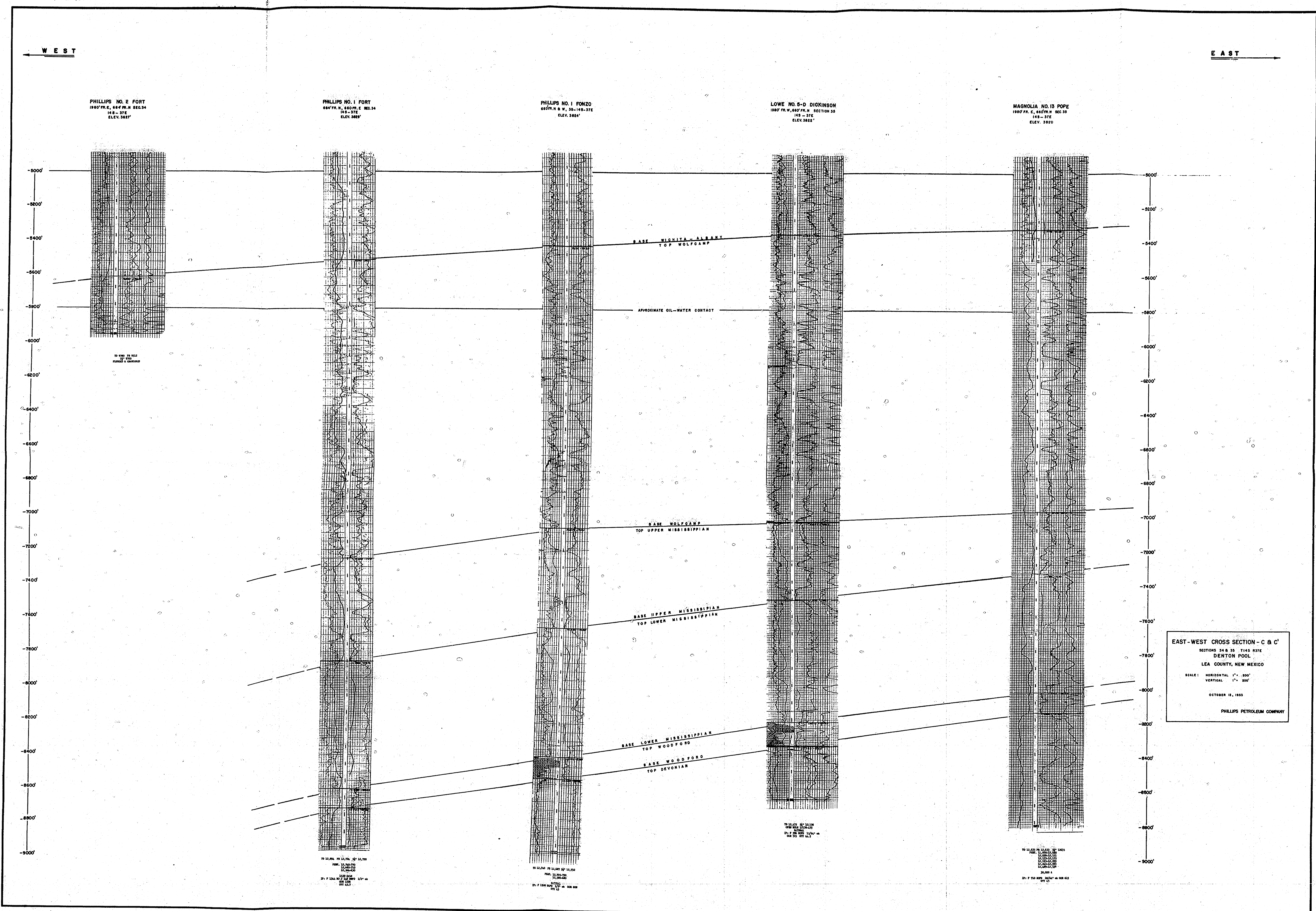
SCALE:
 HORIZONTAL 1" = 200'
 VERTICAL 1" = 200'

OCTOBER 12, 1933
 PHILLIPS PETROLEUM COMPANY

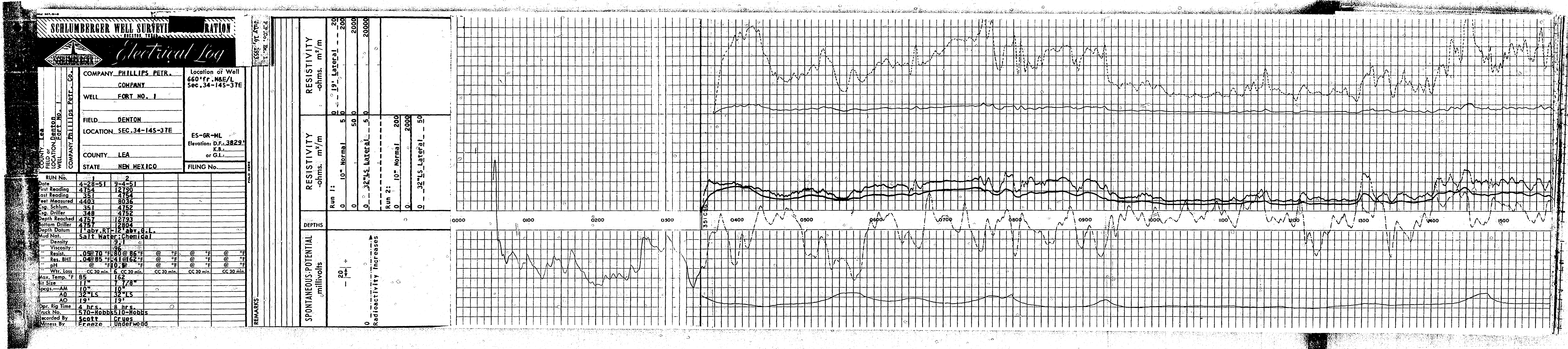
377



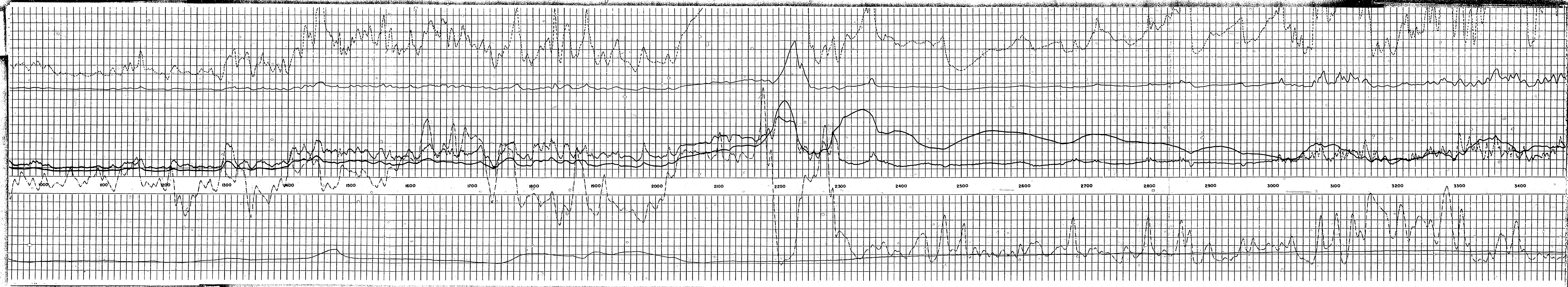
378



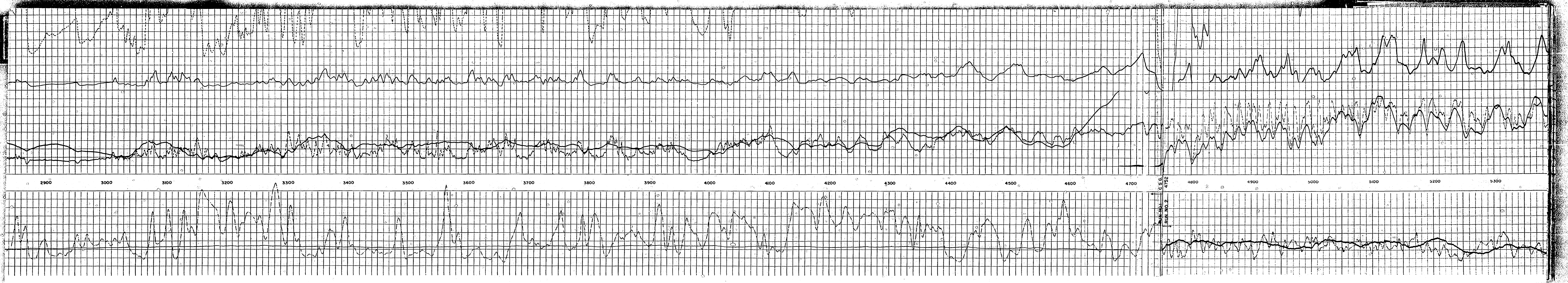
379



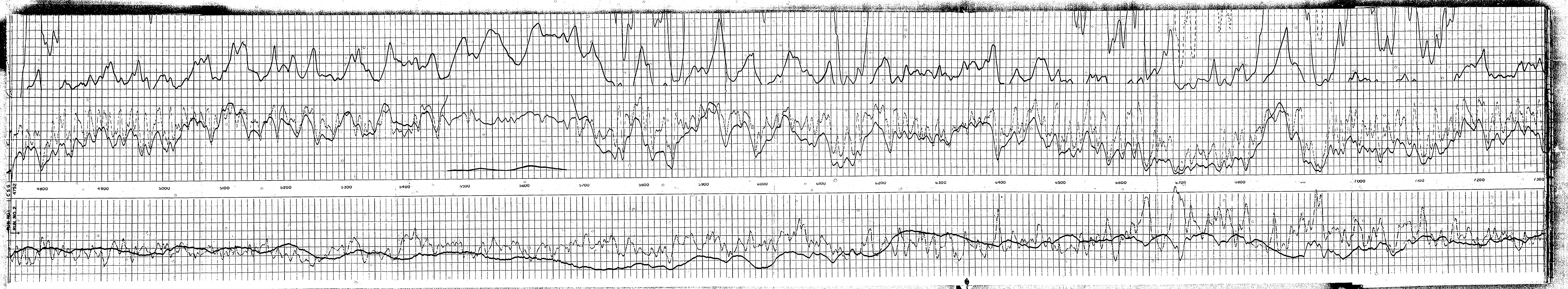
381



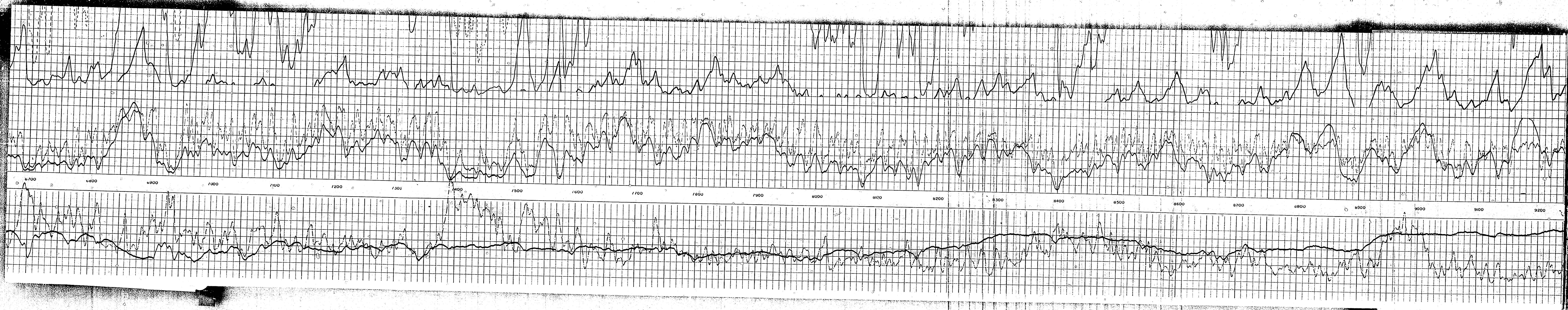
382



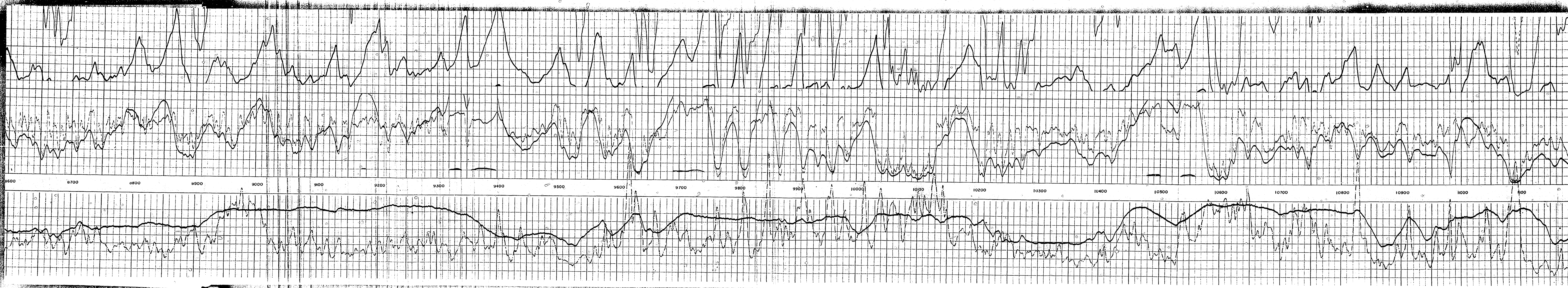
383



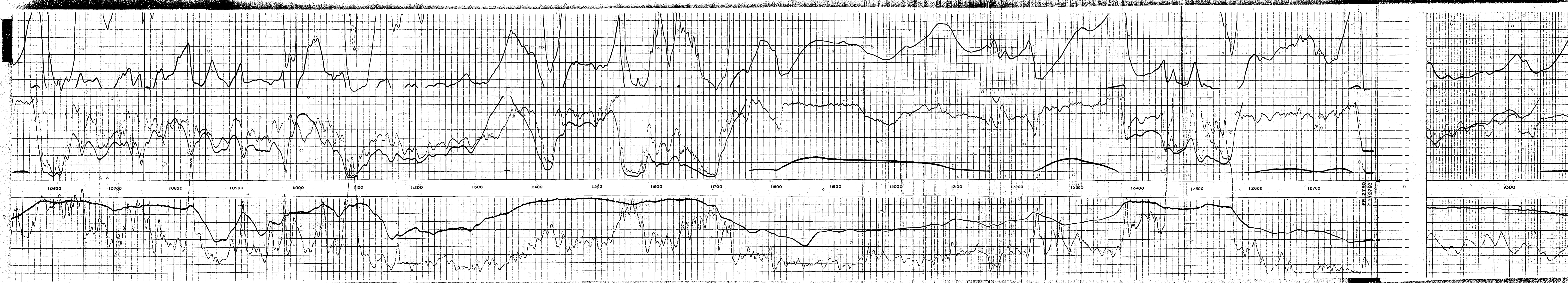
384



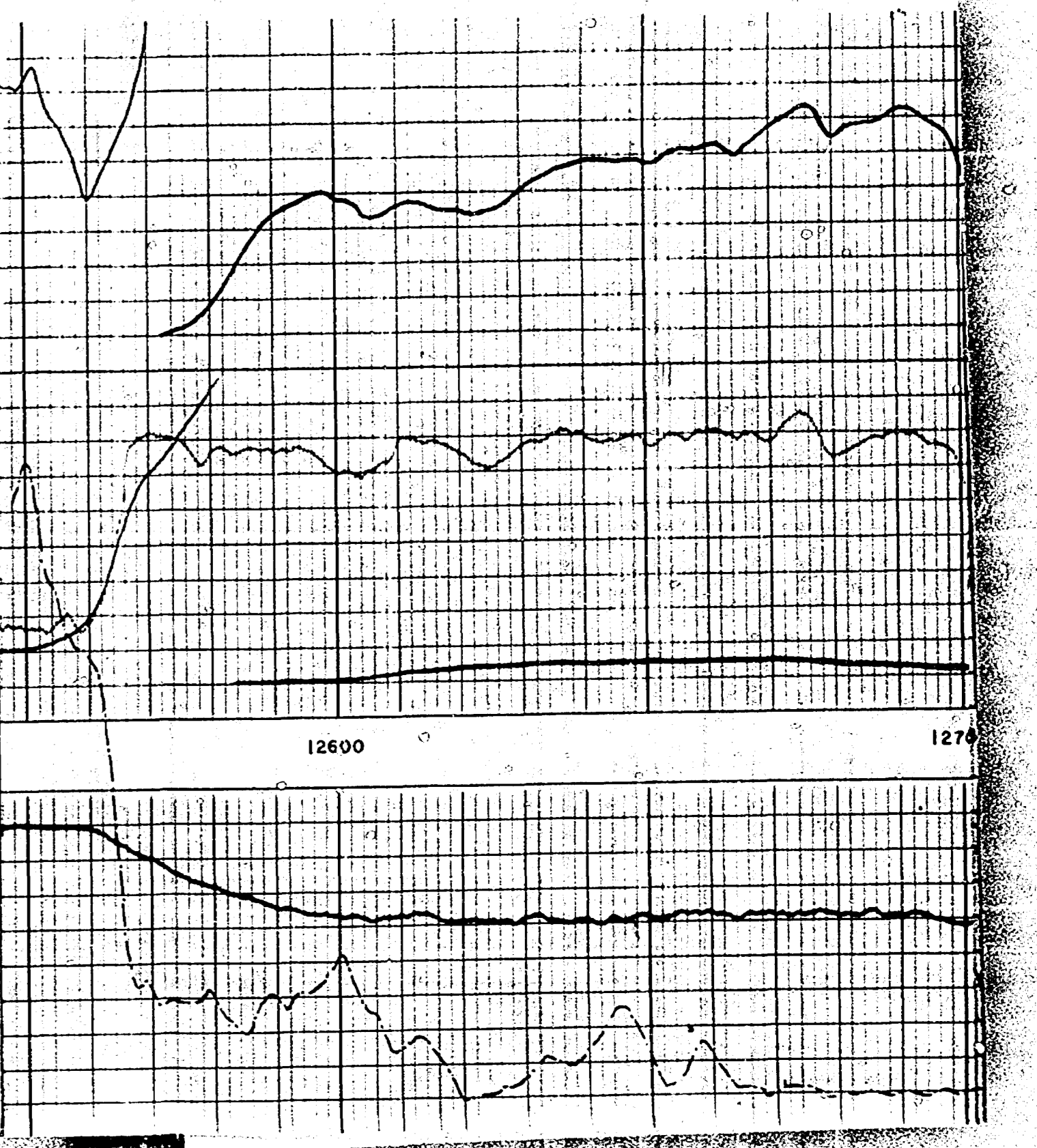
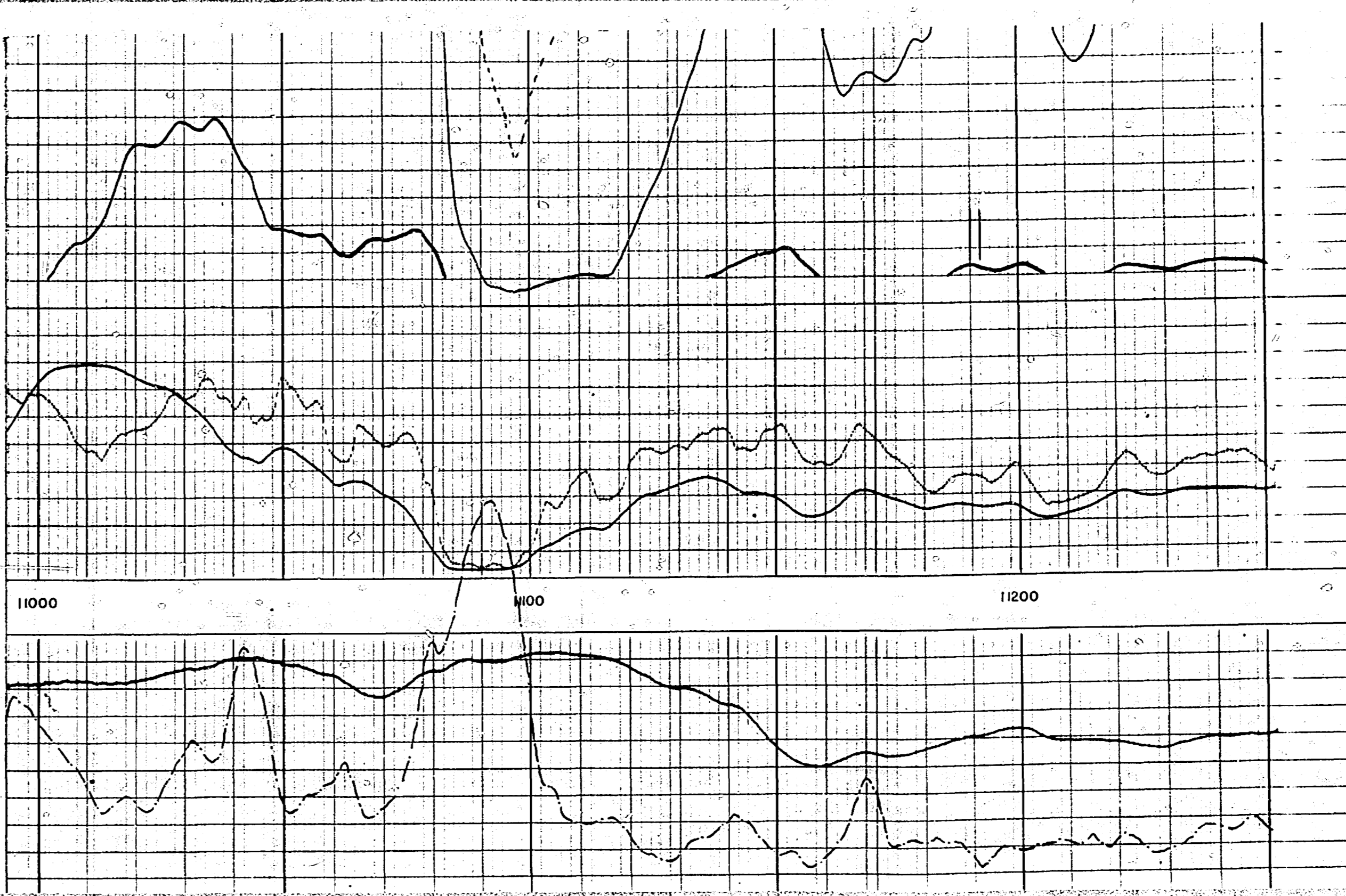
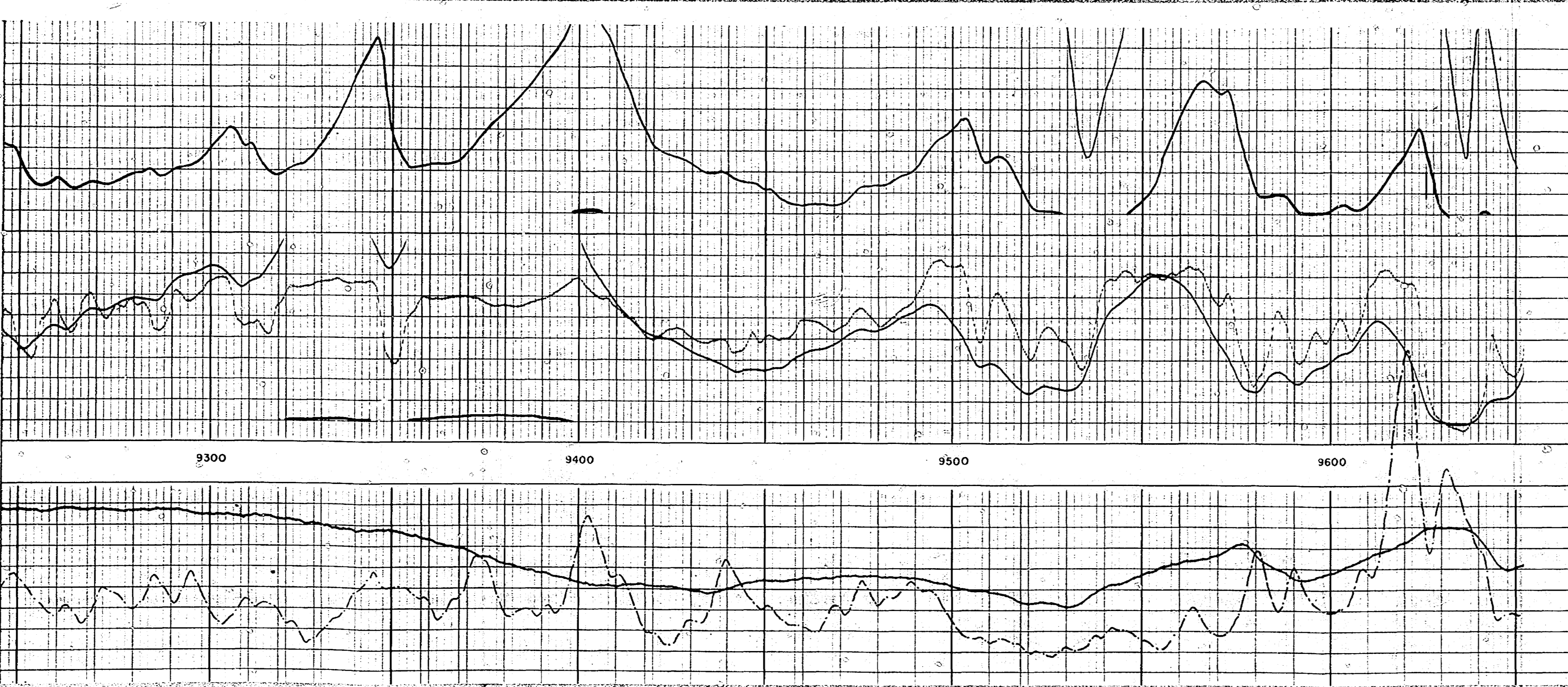
385



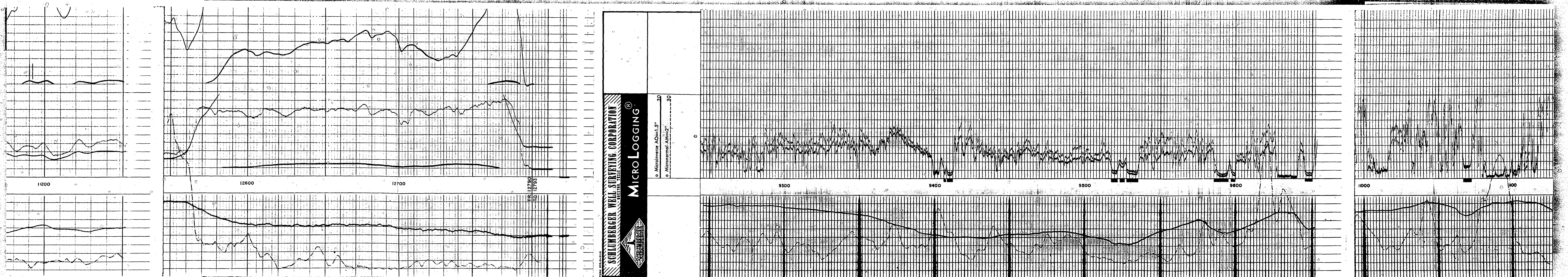
386



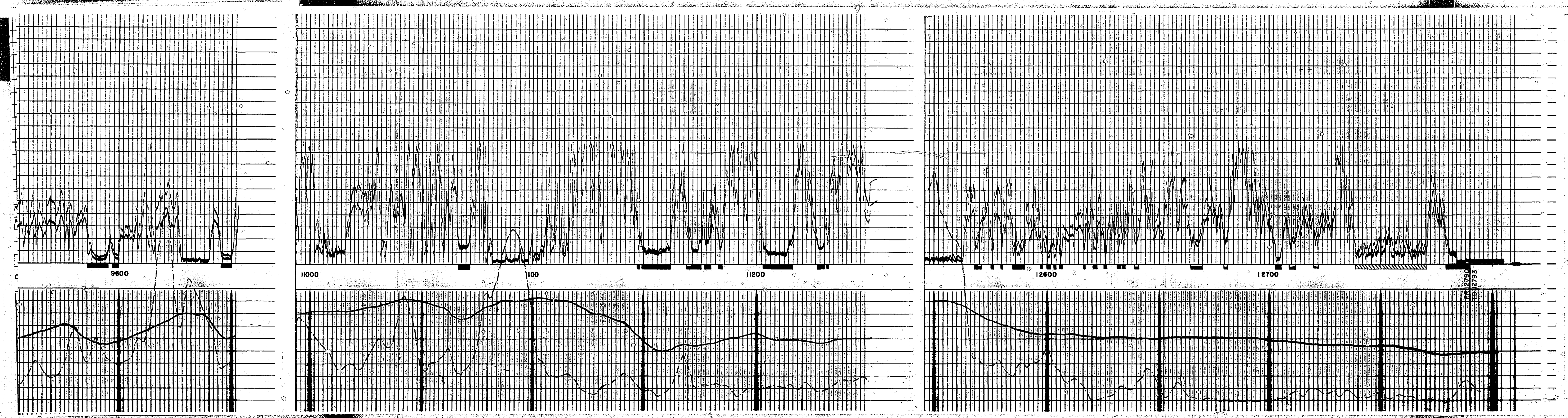
387



388

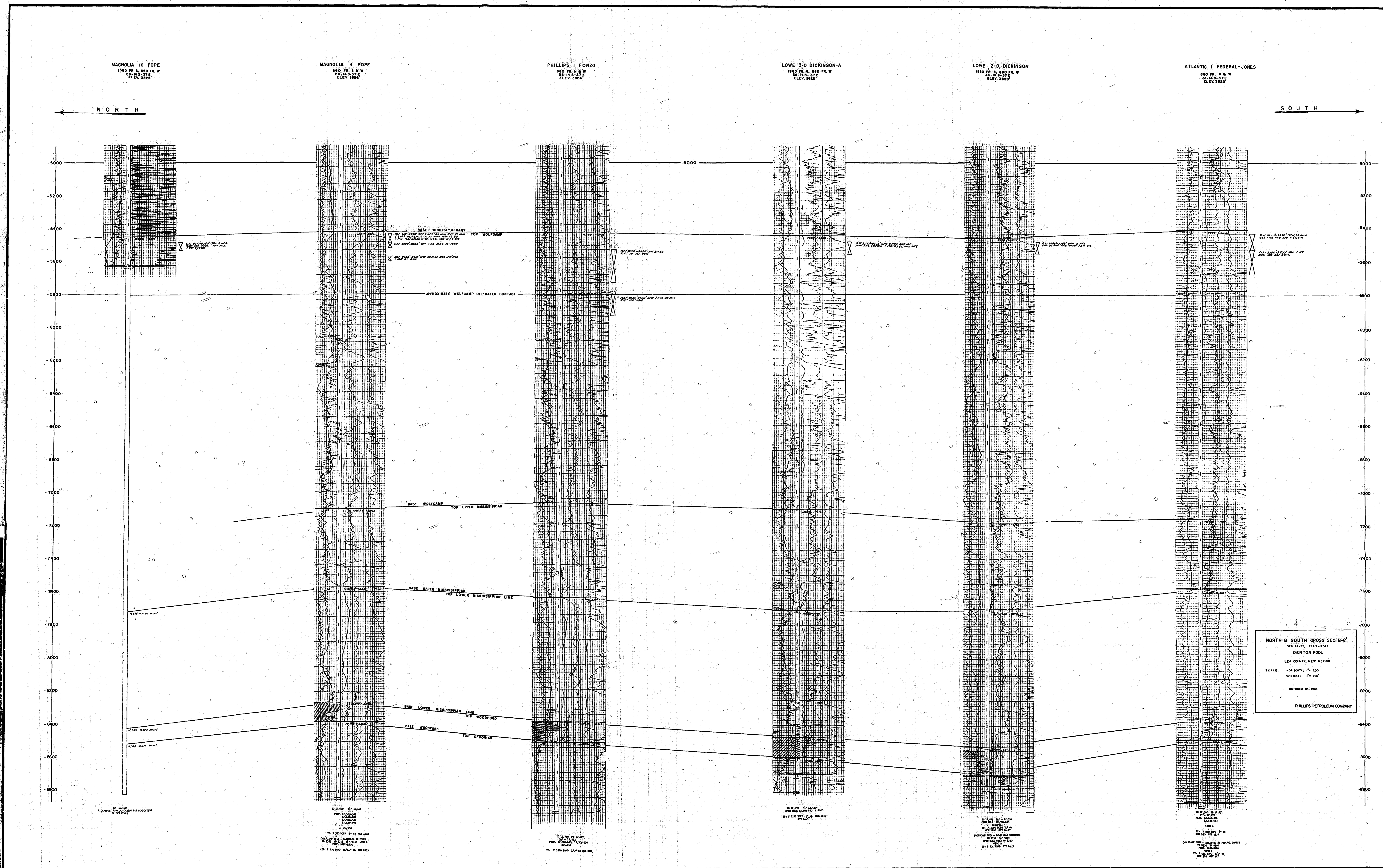


389

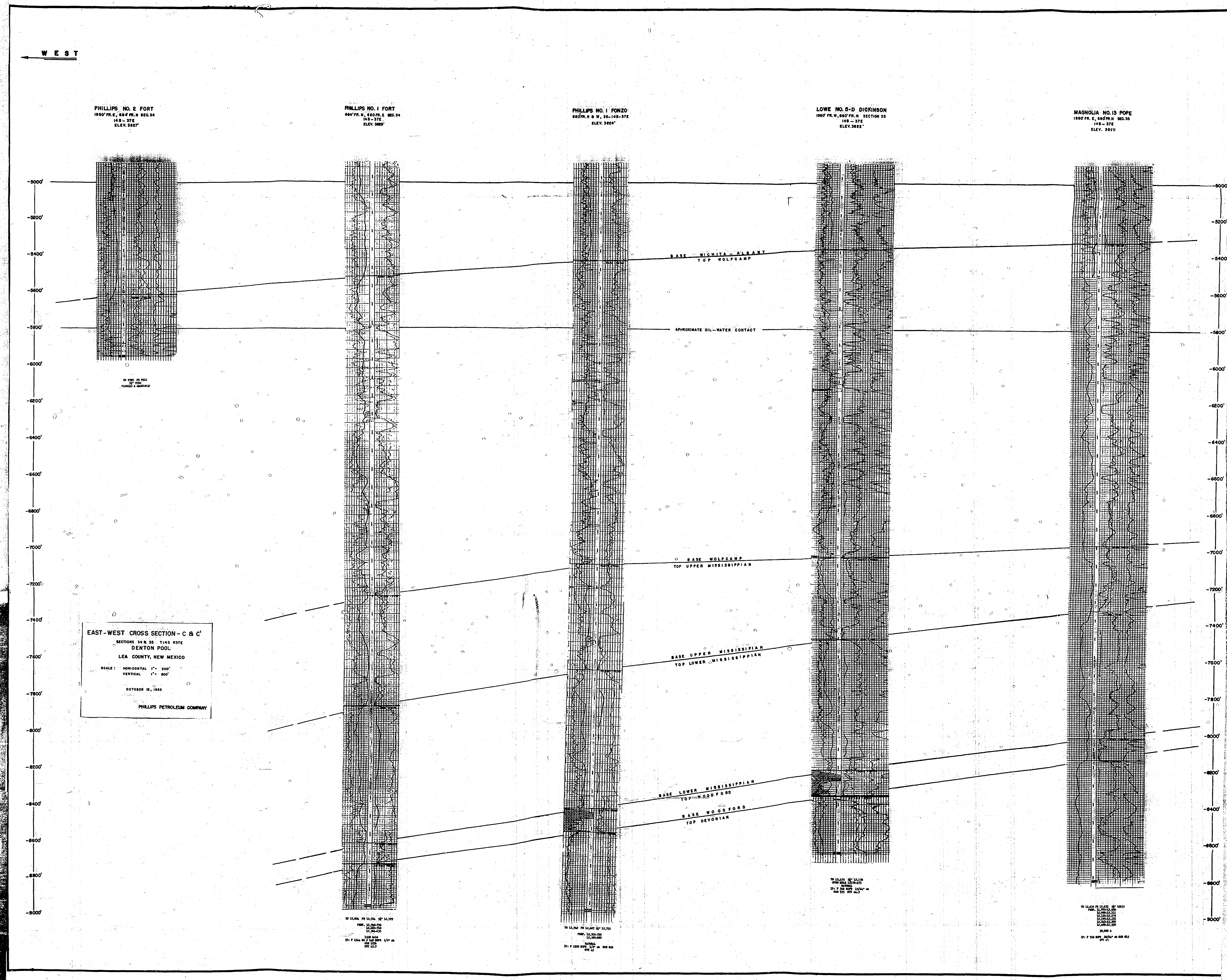


PHILLIPS PETROLEUM CO.
PORT OF SPAIN
LEA COUNTY, NEW MEXICO

390



392

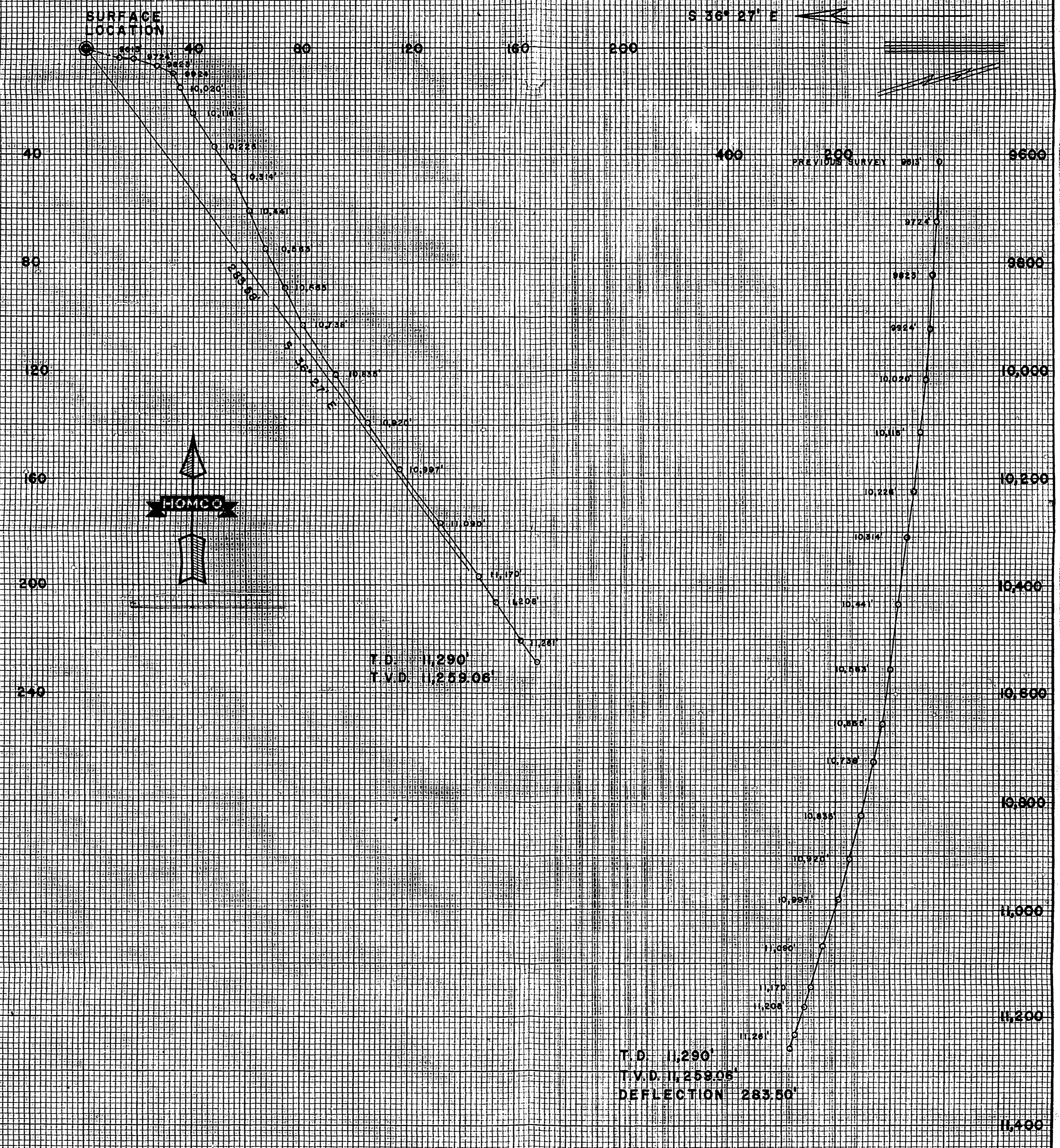


HOMCO

Las Alamos *Carlsbad*
UNION OIL COMPANY OF CALIFORNIA
STATE GROSS NO. 2
EAST CARROCK, NEW MEXICO

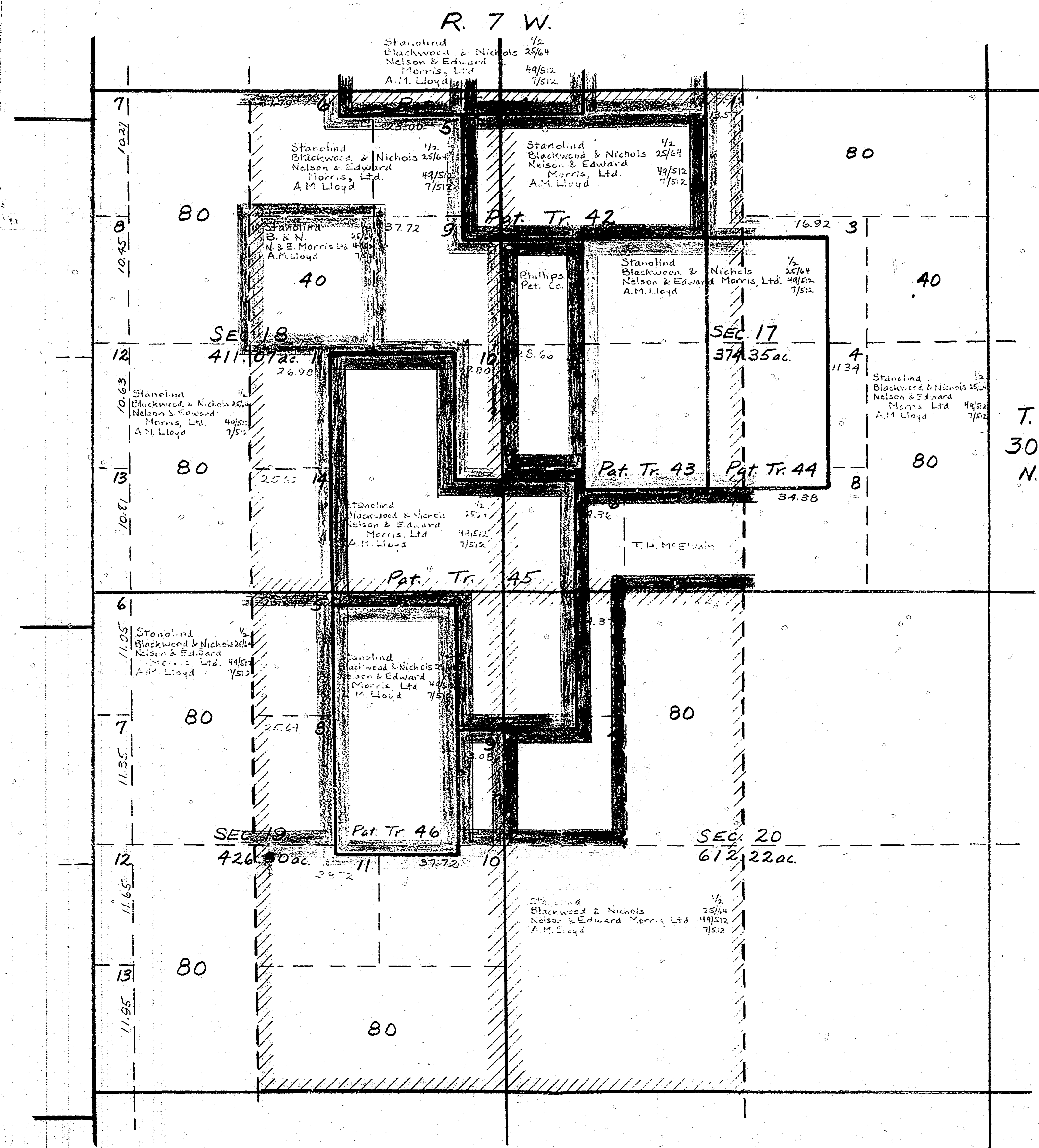
HORIZONTAL PROJECTION
SCALE 1" = 20'

VERTICAL PROJECTION
SCALE 1" = 100'



395

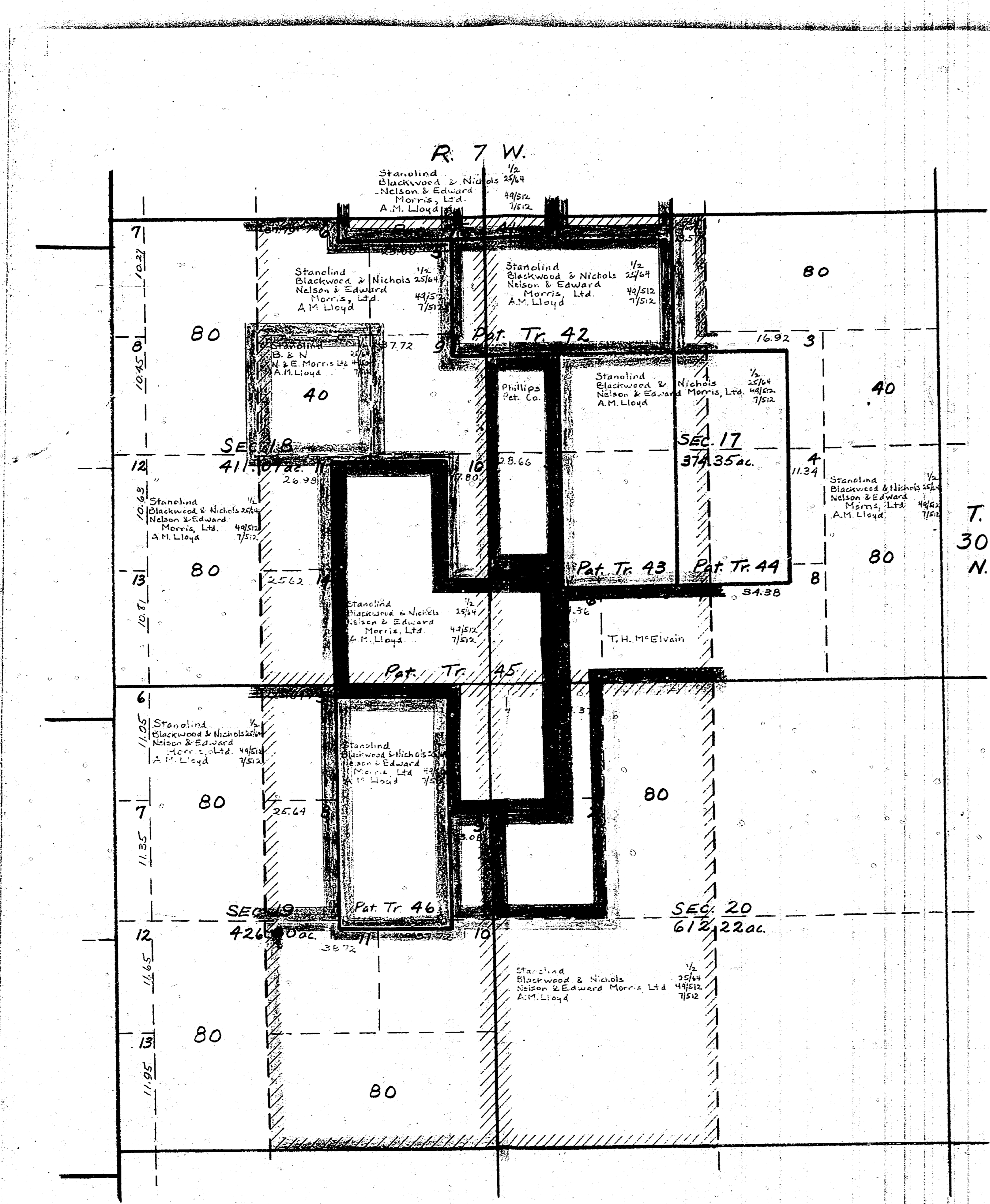
396



BLACKWOOD & NICHOLS COMPANY

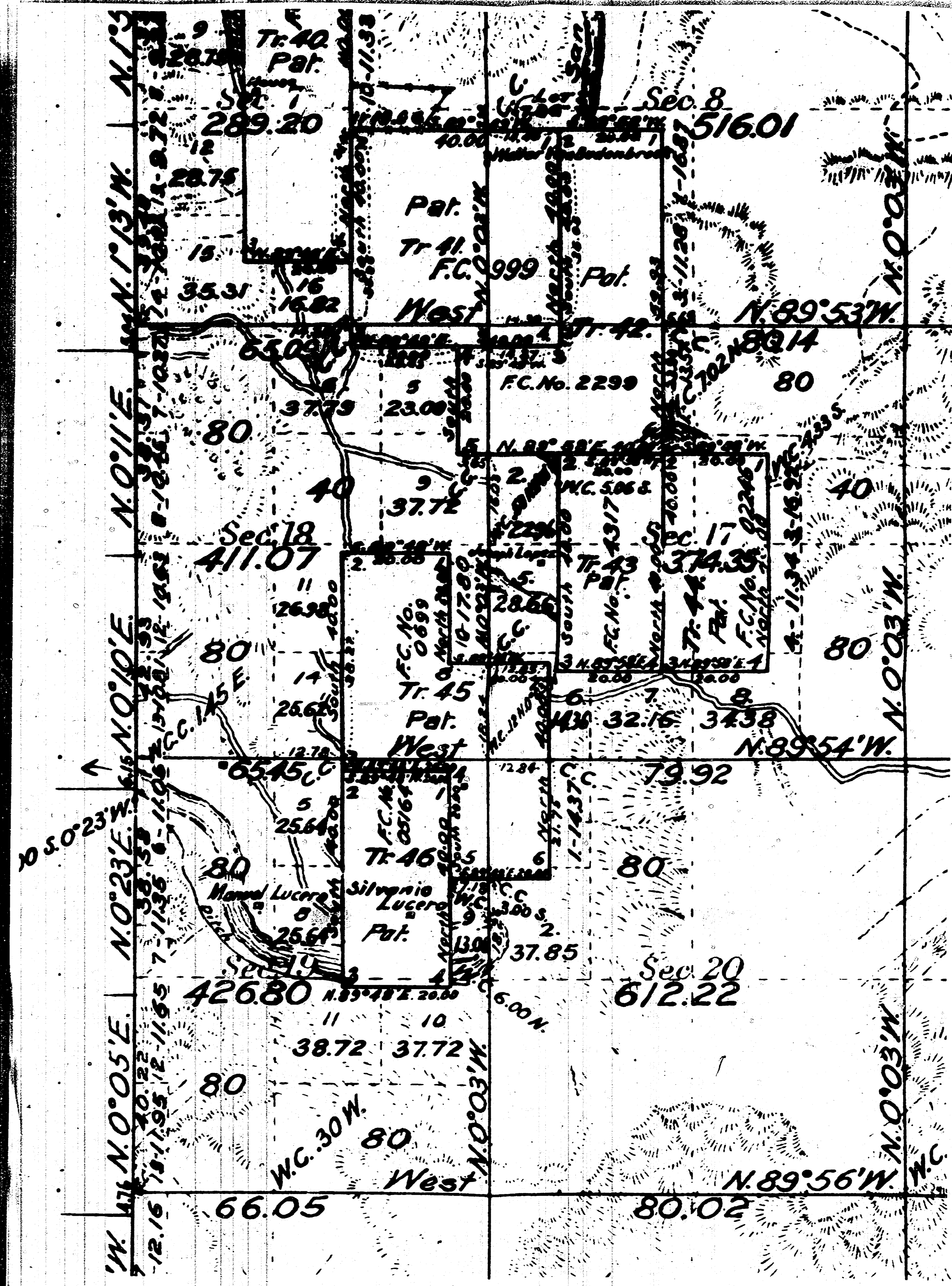
Exhibit A
Case 566

9-15-55 6m



BLACKWOOD & NICHOLS COMPANY

Exhibit Case 566



399