Case No.
2592
Large Exhibits

N.M.O.C.D. MICROGRAPHICS SECTION
P.O. DRAWER DD
ARTESIA, NEW MEXICO 88210

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DOCUMENT NUMBER 2592
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DATE 12-10-87
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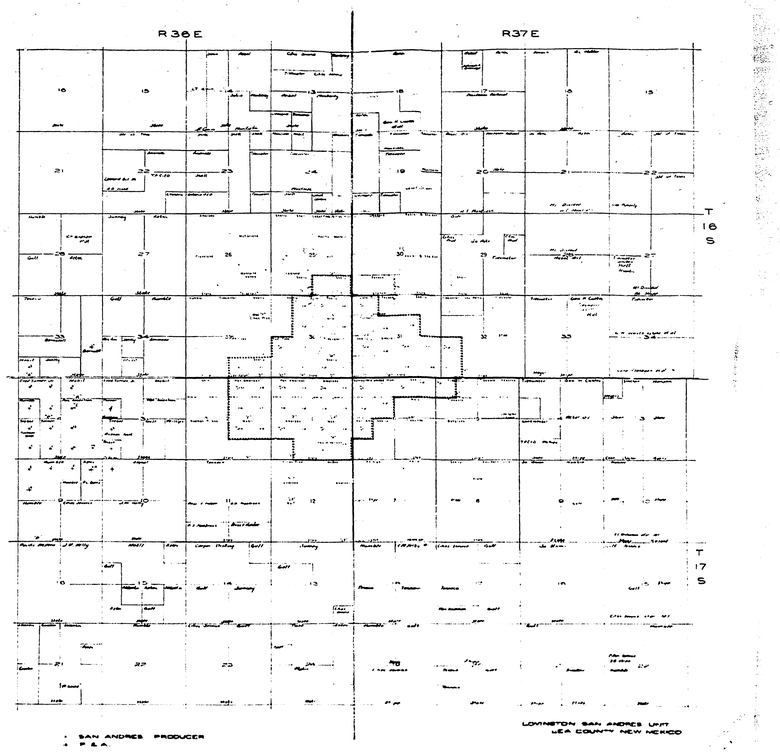


N.M.O.C.D. MICROGRAPHICS

FIG. NO. 1

R 36 E

R 37 E

T 16 S

T 17 S

Amerada · Skelly · Shell · Cabot Carb. · Cities Prod. · Leonard · Resler & Sheldon

McFarland · Pacific Western

Cleveland · 26 · 25 Mobil · 30 Resler & Sheldon · 29

Monteith Velma · Leonard Skelly · "K" Skelly · Texaco · Shell

State Humble · Tidewater · "Sinclair" Skelly · "Y" Skelly · State · Skelly · "C" · Graham Lone Oil · Texaco · State Skelly · State Tidewater · Sou Petro · Shipp Tidewater

Mex "Y" Cities Prod. · "N" Mobil · Graham Turner

35 Phillips · Rod-Noel · 36 "O" Tidewater · U.S. Skelly · Sinclair 31 · 32 Shipp

"AH" Skelly · "M" Skelly

State Ohio · "Lovington" · "S" · "AE" · "R" State · "O" · "O" · "182" State · "O" · "P" · State Tidewater · Kewanee

Pan American · Pan American · Amerada · Sunray-Mid United Prod. · Skelly · MORAN · SHEET ST. A · Tidewater

"A" Rodman & Noel · 2 · "E" Mobil · "I" Amerada · "LA" Mobil · Pan Am · Skelly · 6 · Caylor Tidewater · Batton Danglade · 5 · Lovington State

"B" Pan American

State · "D" · "L" State · Caylor · Shaw · Covert

Cities Prod. · McBee · Phillips · Herrell · Skelly · Southern Union

Amerada · Amerada · State

11 · 12 · Shipp · 7 · Brady · 8

State · Lyrat · Henderson · State

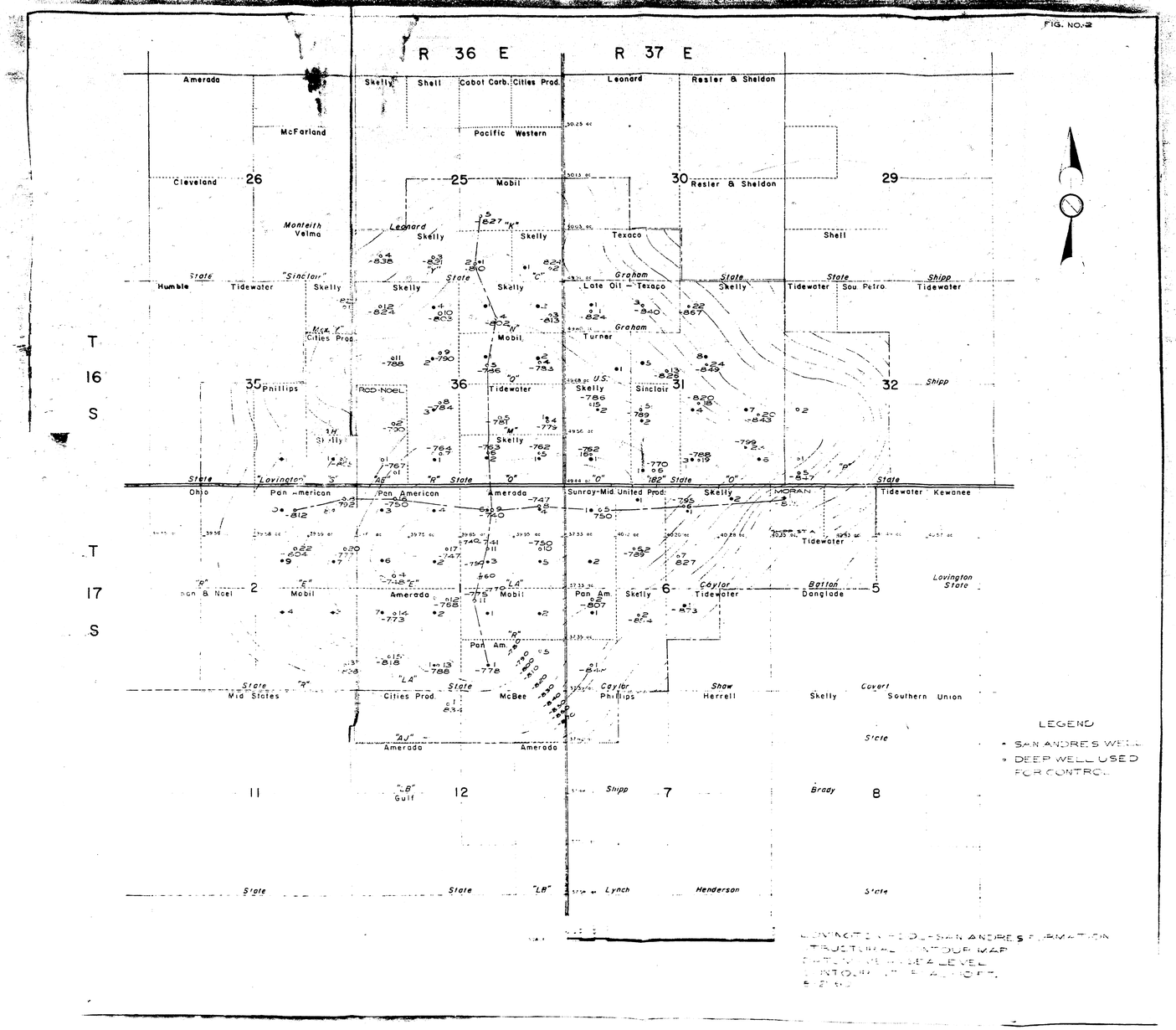
LEGEND

- SAN ANDRES WELL
- INJECTION WELL
- P & A WELL
- DRY HOLE
- PROPOSED LOCATION

LOVINGTON POOL
LEA COUNTY, NEW MEXICO
SAN ANDRES

UNIT AREA

FIG. NO-2

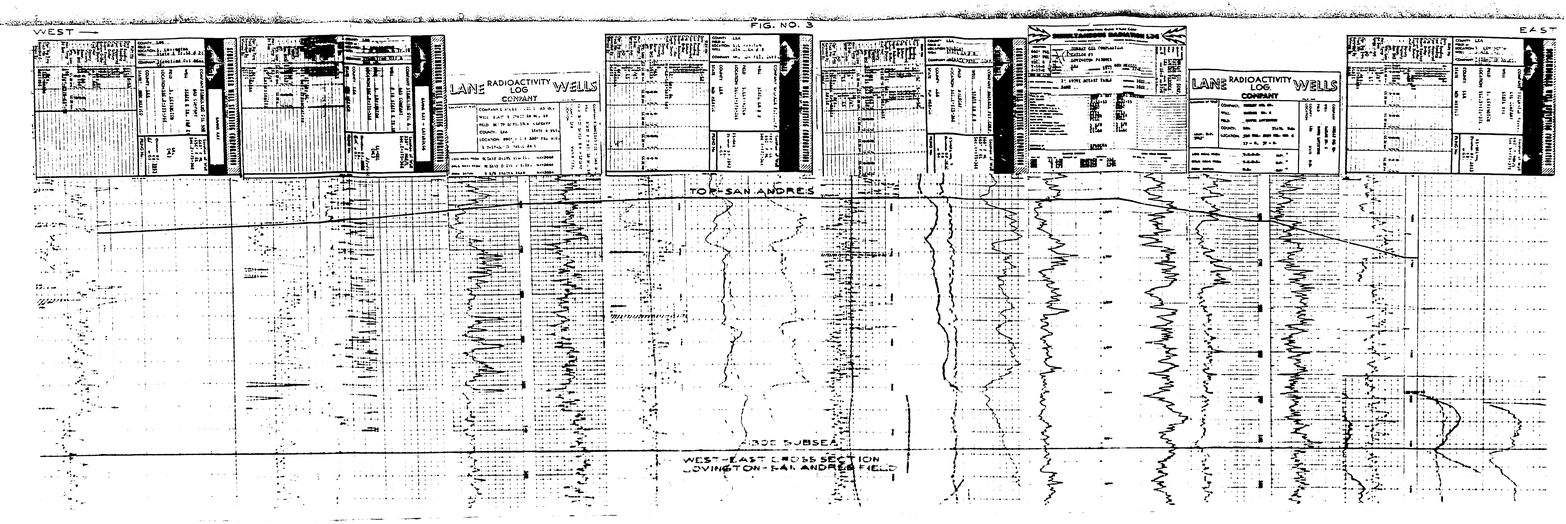


LEGEND

- SAN ANDRES WELL
- DEEP WELL USED FOR CONTROL

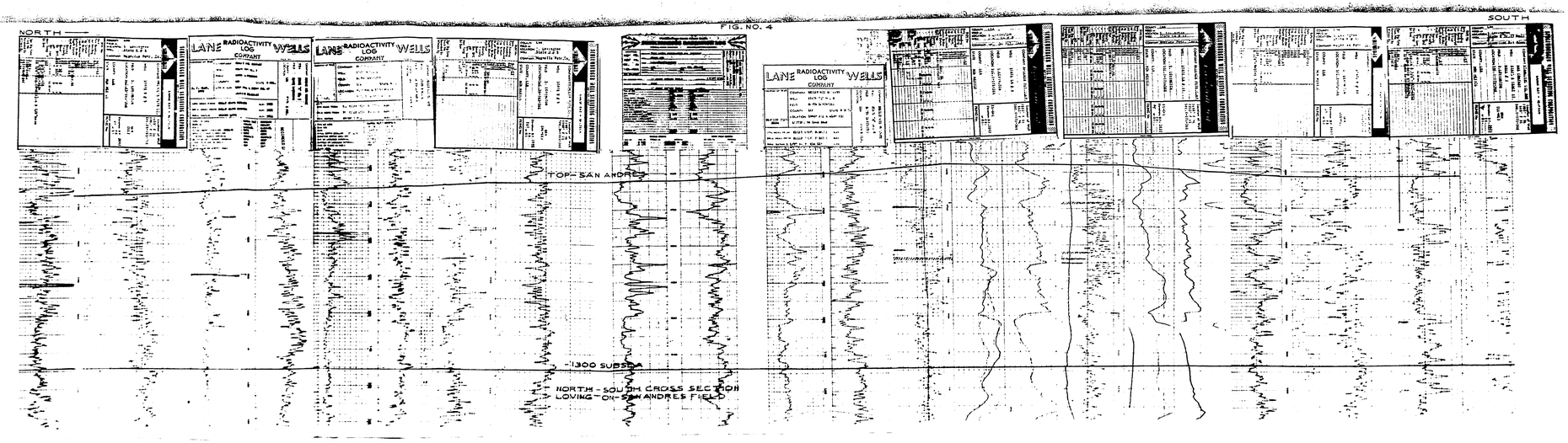
CONTOURED ON SAN ANDRES FORMATION
STRUCTURAL CONTOUR MAP
DATUM IS SEA LEVEL
INTERVAL 10 FEET

FIG. NO. 3



WEST - EAST CROSS SECTION
LOVINGTON-SAN ANDRES FIELD

FIG. NO. 4



NORTH-SOUTH CROSS SECTION
LOVING-OIL-SAN ANDRES FIELD

FIG. NO. 5

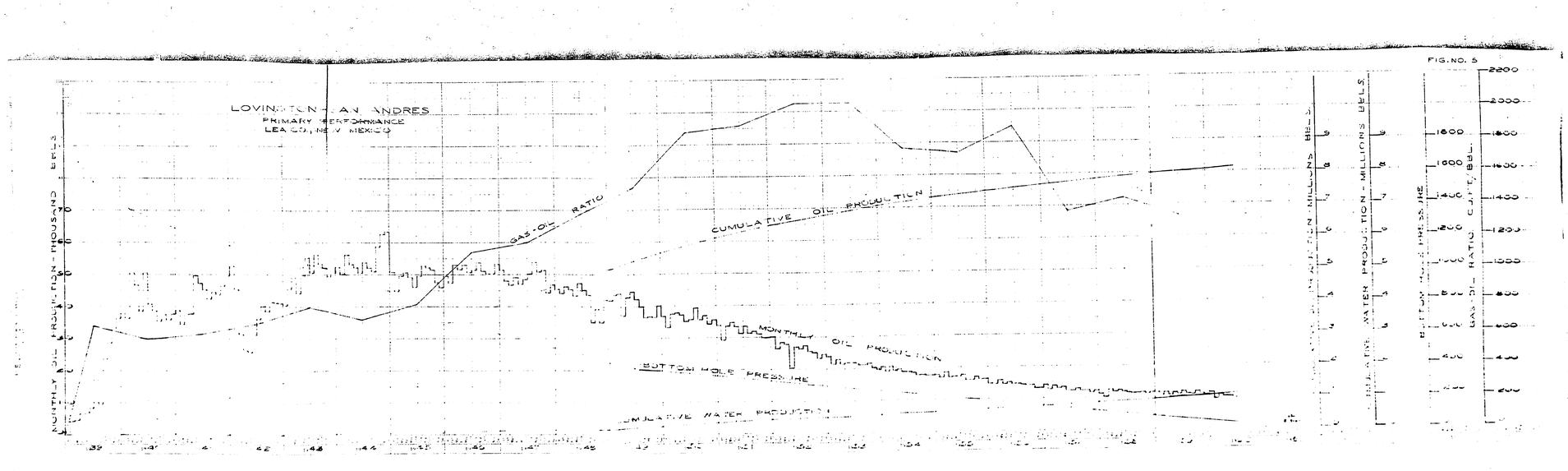

LOVINGTON - SAN ANDRES
PRIMARY PERFORMANCE
LEA CO., NEW MEXICO
MONTHLY OIL PRODUCTION - THOUSAND BBLS.
GAS-OIL RATIO
CUMULATIVE OIL PRODUCTION
MONTHLY OIL PRODUCTION
BUTTON HOLE PRESSURE
CUMULATIVE WATER PRODUCTION
CUMULATIVE OIL PRODUCTION - MILLIONS BBLS.
CUMULATIVE WATER PRODUCTION - MILLIONS BBLS.
BUTTON HOLE PRESSURE
GAS-OIL RATIO CU.FT./Bbl.
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

FIG. NO. 6

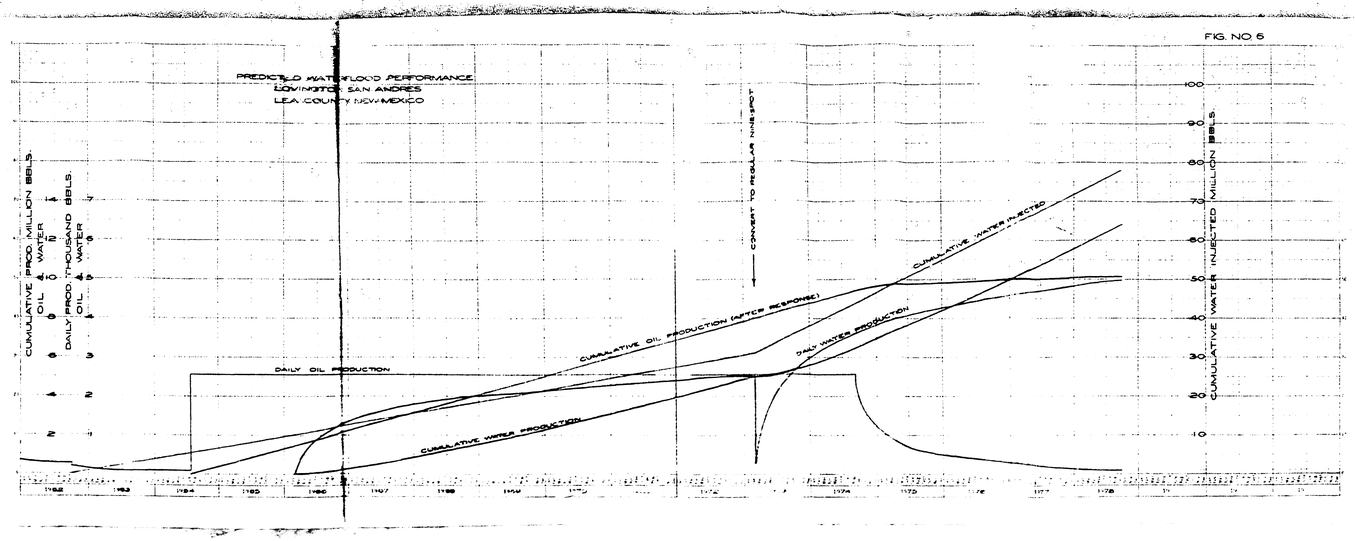
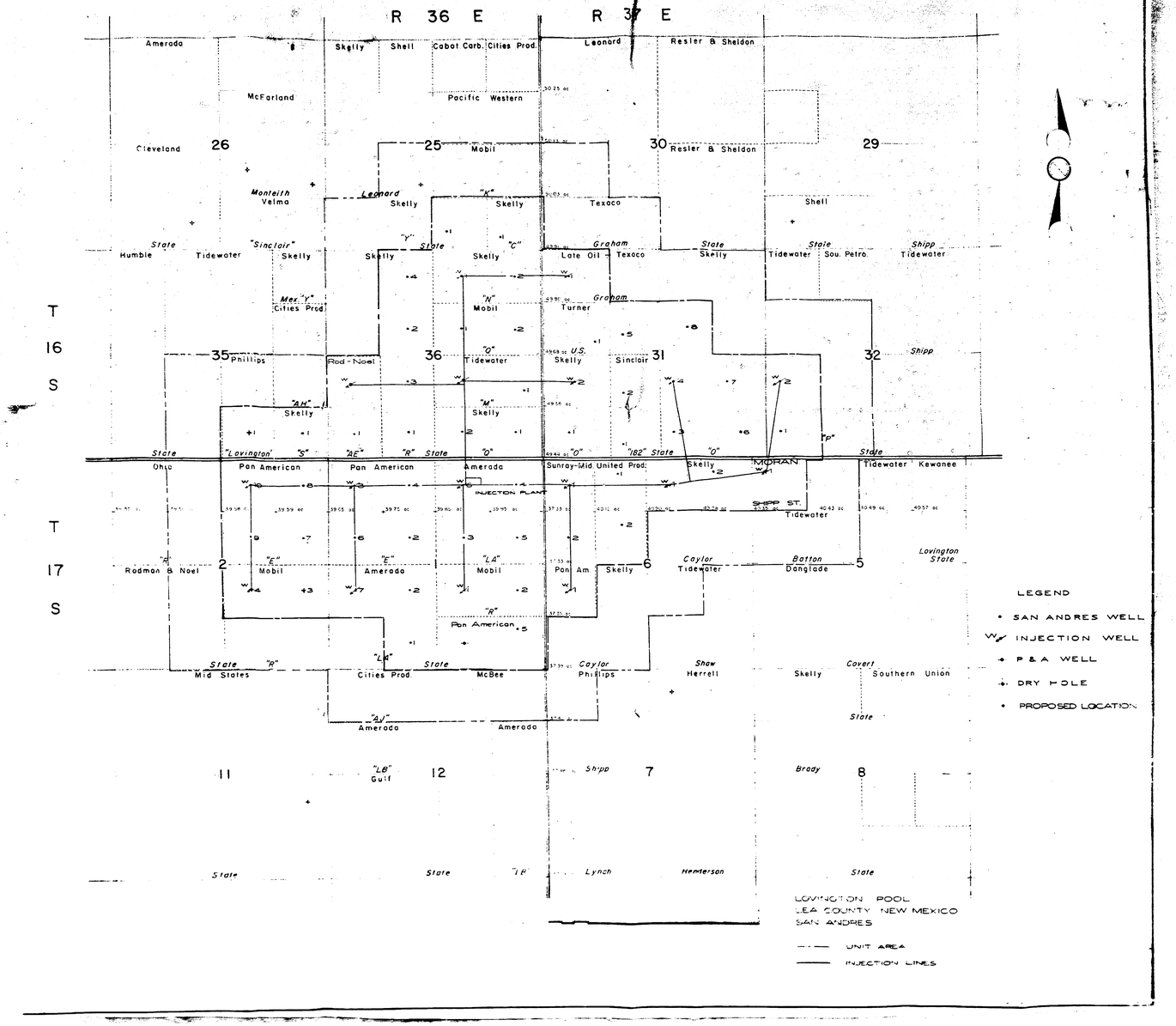

PREDICTED WATERFLOOD PERFORMANCE
LOVINGTON SAN ANDRES
LEA COUNTY, NEW MEXICO
CUMULATIVE PROD. MILLION BBLS.
OIL
WATER
DAILY PROD. THOUSAND BBLS.
OIL
WATER
CONVERT TO REGULAR INJECTION
DAILY OIL PRODUCTION
CUMULATIVE OIL PRODUCTION (AFTER RESPONSE)
CUMULATIVE WATER INJECTED
DAILY WATER PRODUCTION
CUMULATIVE WATER PRODUCTION
CUMULATIVE WATER INJECTED MILLION BBLS.
1982
1983
1984
1985
1986
1987
1988
1989
1990
1991
1992
1993
1994
1995
1996
1997
1998
1999

FIG. NO. 7


R 36 E
R 37 E
T 16 S
T 17 S
Amerada
Skelly
Shell
Cabot Carb.
Cities Prod.
Leonard
Resler & Sheldon
McFarland
Pacific Western
Cleveland
26
25
Mobil
30
Resler & Sheldon
29
Monteith
Velma
Leonard
Skelly
"K"
Skelly
Texaco
Shell
State
Humble
Tidewater
"Sinclair"
Skelly
"Y"
Skelly
State
"C"
Skelly
Graham
Late Oil - Texaco
State
Skelly
State
Tidewater
Sou. Petro.
Shipp
Tidewater
Mex. "Y"
Cities Prod.
"N"
Mobil
Graham
Turner
35
Phillips
Rod - Noel
36
"O"
Tidewater
U.S.
Skelly
31
Sinclair
32
Shipp
"AH"
Skelly
"M"
Skelly
State
Ohio
"Lovington"
"S"
Pan American
"AE"
Pan American
"R"
State
"O"
Amerada
"O"
Sunray-Mid Continent
United Prod.
"182"
State
"O"
Skelly
MORAN
"P"
State
Tidewater
Kewanee
INJECTION PLANT
SHOP ST.
Tidewater
Rodman & Noel
2
"E"
Mobil
"E"
Amerada
"E"
Mobil
"LA"
Mobil
Pan Am.
Skelly
6
Taylor
Tidewater
Batton
Danglade
5
Lovington
State
"R"
Pan American
State
Mid States
"P"
"LB"
Cities Prod.
State
McBee
"AV"
Amerada
Amerada
Taylor
Phillips
Shaw
Herrell
Skelly
Covert
Southern Union
State
11
"LB"
Gulf
12
Shipp
7
Brady
8
State
State
"LB"
Lynch
Henderson
State
LEGEND
• SAN ANDRES WELL
INJECTION WELL
P & A WELL
DRY HOLE
PROPOSED LOCATION
LOVINGTON POOL
LEA COUNTY NEW MEXICO
SAN ANDRES
UNIT AREA
INJECTION LINES