

CASE 3597:

SOUTHEASTERN NEW MEXICO
NOMENCLATURE

CASE No.
3597

Application,
TRANSCRIPTS,
SMALL Exhibits
ETC.

**BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO**

**IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
COMMISSION OF THE STATE OF
NEW MEXICO FOR THE PURPOSE OF
CONSIDERING:**

**CASE No. 3597
Order No. R-3262**

**THE APPLICATION OF THE OIL CONSERVATION
COMMISSION UPON ITS OWN MOTION FOR AN ORDER
CREATING, CONTRACTING, AND EXTENDING THE
VERTICAL AND HORIZONTAL LIMITS OF CERTAIN
POOLS IN CHAVES, EDDY, LEA, AND ROOSEVELT
COUNTIES, NEW MEXICO.**

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on June 16, 1967, at Santa Fe, New Mexico, before the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission."

NOW, on this 19th day of June, 1967, the Commission, a quorum being present, having considered the testimony presented and the exhibits received at said hearing and being fully advised in the premises,

FINDS:

(1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.

(2) That there is need for the creation of a new oil pool in Chaves County, New Mexico, for the production of oil from the San Andres formation, said pool to bear the designation of Tom-tom San Andres Pool. Further, that the discovery well for said pool, Pan American Petroleum Corporation's Miller Federal No. 1 located in Unit P of Section 34, Township 7 South, Range 31 East, NMPM, is entitled to and should receive a bonus discovery oil allowable in the amount of 19,570 barrels to be assigned over a two-year period. The top of the perforations in said well is 3,954 feet.

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(3) That there is need for the creation of a new oil pool in Lea County, New Mexico, for the production of oil from the San Andres formation, said pool to bear the designation of Pearl-San Andres Pool. Said Pearl-San Andres Pool was discovered by Shell Oil Company, Record No. 2, located in Unit G of Section 35, Township 19 South, Range 35 East, NMPM. It was completed in San Andres on April 10, 1967. The top of perforations is 5320 feet.

(4) That there is need for the deletion of certain acreage from the Square Lake Grayburg-San Andres Pool in Eddy County, New Mexico, in order that said acreage may be placed in the Grayburg-Jackson Pool so that all of an operator's wells on one lease in a waterflood may be in one pool.

(5) That there is need for the extension of the vertical limits of the Dollarhide-Drinkard Pool in Lea County, New Mexico, to include the Tubb formation and redesignate said pool as Dollarhide Tubb-Drinkard Pool.

(6) That there is need for certain extensions to the North Benson Queen-Grayburg Pool, the Burton-Yates Pool, the Grayburg Jackson Queen-Grayburg-San Andres Pool, and the Penasco Draw San Andres-Yeso Pool, all in Eddy County, New Mexico, the North Bagley-Lower Pennsylvanian Pool, the South Corbin-Strawn Pool, the Fowler-Lower Paddock Gas Pool, the Inbe-Pennsylvanian Pool, the Lea-Pennsylvanian Gas Pool, the Vada-Pennsylvanian Pool, and the Wantz-Abo Pool, all in Lea County, New Mexico, and the South Prairie-San Andres Pool in Roosevelt County, New Mexico.

IT IS THEREFORE ORDERED:

(a) That a new pool in Chaves County, New Mexico, classified as an oil pool for San Andres production, is hereby created and designated as the Tom-tom San Andres Pool, consisting of the following-described area:

TOWNSHIP 7 SOUTH, RANGE 31 EAST, NMPM
Section 34: SE/4 SE/4

That the discovery well for said pool, the Pan American Petroleum Corporation Miller Federal Well No. 1, located in Unit P of Section 34, Township 7 South, Range 31 East, NMPM, is hereby authorized an oil discovery allowable of 19,570 barrels to be assigned to said well at the rate of 27 barrels per day in accordance with Rule 509 of the Commission Rules and Regulations.

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(b) That a new pool in Lea County, New Mexico, classified as an oil pool for San Andres production, is hereby created and designated as the Pearl-San Andres Pool, consisting of the following-described area:

TOWNSHIP 19 SOUTH, RANGE 35 EAST, NMPM
Section 35: NE/4

(c) That the Square Lake Grayburg-San Andres Pool in Eddy County, New Mexico, as heretofore classified, defined, and described, is hereby contracted by the deletion of the following-described area:

TOWNSHIP 17 SOUTH, RANGE 29 EAST, NMPM
Section 10: E/2 and E/2 W/2
Section 11: W/2
Section 14: N/2
Section 15: NE/4

(d) That the vertical limits of the Dollarhide-Drinkard Pool in Lea County, New Mexico, are hereby extended to include the Tubb formation and said pool redesignated the Dollarhide Tubb-Drinkard Pool.

(e) That the North Bagley-Lower Pennsylvanian Pool in Lea County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 11 SOUTH, RANGE 33 EAST, NMPM
Section 4: SE/4
Section 8: SE/4
Section 9: S/2
Section 10: NE/4
Section 11: NW/4
Section 15: NE/4
Section 16: NW/4
Section 21: All
Section 27: All
Section 28: All
Section 29: S/2

(f) That the North Benson Queen-Grayburg Pool in Eddy County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 18 SOUTH, RANGE 30 EAST, NMPM
Section 32: NE/4 SW/4

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(g) That the Burton-Yates Pool in Eddy County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 20 SOUTH, RANGE 29 EAST, NMPM
Section 7: SE/4 NE/4 and E/2 SE/4

(h) That the South Corbin-Strawn Pool in Lea County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 18 SOUTH, RANGE 33 EAST, NMPM
Section 27: N/2

(i) That the Fowler-Lower Paddock Gas Pool in Lea County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 24 SOUTH, RANGE 37 EAST, NMPM
Section 22: All

(j) That the Grayburg Jackson Queen-Grayburg-San Andres Pool in Eddy County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 17 SOUTH, RANGE 29 EAST, NMPM
Section 10: E/2 and E/2 W/2
Section 11: W/2
Section 14: E/2
Section 15: NE/4

(k) That the Inbe-Pennsylvanian Pool in Lea County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 10 SOUTH, RANGE 33 EAST, NMPM
Section 27: SW/4

TOWNSHIP 11 SOUTH, RANGE 33 EAST, NMPM
Section 13: SW/4
Section 24: SE/4

TOWNSHIP 11 SOUTH, RANGE 34 EAST, NMPM
Section 8: NW/4

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(l) That the Lea-Pennsylvanian Gas Pool in Lea County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 20 SOUTH, RANGE 34 EAST, NMPM

Section 11: SW/4

(m) That the Penasco Draw San Andres-Yeso Pool in Eddy County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 19 SOUTH, RANGE 25 EAST, NMPM

Section 4: SW/4

Section 5: SE/4

Section 8: E/2 NE/4

(n) That the South Prairie-San Andres Pool in Roosevelt County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 8 SOUTH, RANGE 36 EAST, NMPM

Section 20: NE/4

(o) That the Vada-Pennsylvanian Pool in Lea County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 9 SOUTH, RANGE 34 EAST, NMPM

Section 17: S/2

(p) That the Wants-Abo Pool in Lea County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 21 SOUTH, RANGE 37 EAST, NMPM

Section 4: SW/4

IT IS FURTHER ORDERED:

That the effective date of this order and all creations, contractions, and extensions of vertical and horizontal limits included herein shall be July 1, 1967.

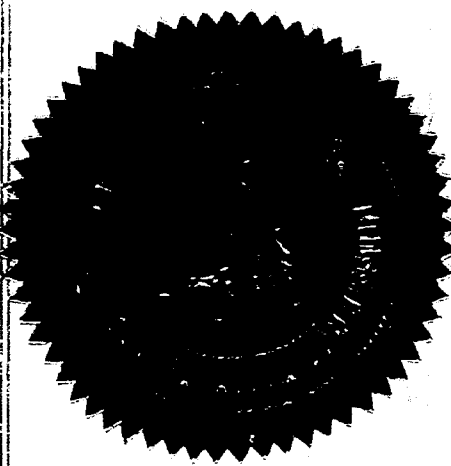
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CASE No. 3597

Order No. R-3262

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION



David F. Cargo

DAVID F. CARGO, Chairman

Guyton B. Hays

GUYTON B. HAYS, Member

A. L. Porter, Jr.

A. L. PORTER, Jr., Member & Secretary

esr/

NOMENCLATURE ADVERTISEMENT FOR JUNE, 1967

CASE 35-97

In the matter of the application of the Oil Conservation Commission of New Mexico upon its own motion for an order for the creation of a new pool in Lea County, New Mexico, the deletion of an existing pool in Eddy County, New Mexico, and the extension of vertical and horizontal limits of certain existing pools in Eddy, Lea, and Roosevelt Counties, New Mexico, and giving notice to all persons and parties interested in the subject matter thereof to appear and show cause why such creations, deletions, and extensions of vertical and horizontal limits should not be made.

a) CREATE A new pool in Lea County, New Mexico, classified as an oil pool for San Andres production and designated as the Pearl-San Andres Pool. The discovery well is Shell Oil Company, Record No. 2, located in Unit G of Section 35, Township 19 South, Range 35 East, NMPM. Said pool described as:

✓ TOWNSHIP 19 SOUTH, RANGE 35 EAST, NMPM
SECTION 35: NE/4

Contract
b) ~~DELETE~~ the Square Lake Grayburg-San Andres Pool in Eddy County, New Mexico, ~~described as:~~ *by deletion of the following described area:*

✓ TOWNSHIP 17 SOUTH, RANGE 29 EAST, NMPM
SECTION 10: E/2 and E/2 W/2
SECTION 11: W/2
SECTION 14: N/2
SECTION 15: NE/4

de c) EXTEND the vertical limits of the Dollarhide-Drinkard Pool in Lea County, New Mexico, to include the Tubb formation and redesignate said pool as Dollarhide Tubb-Drinkard Pool.

e d) EXTEND the North Bagley-Lower Pennsylvanian Pool in Lea County, New Mexico, to include therein:

✓ TOWNSHIP 11 SOUTH, RANGE 33 EAST, NMPM
SECTION 4: SE/4
SECTION 16: NW/4
SECTION 21: All
SECTION 27: All
SECTION 28: All
SECTION 29: S/2

f e) EXTEND the North Benson Queen-Grayburg Pool in Eddy County, New Mexico, to include therein:

✓ TOWNSHIP 18 SOUTH, RANGE 30 EAST, NMPM
SECTION 32: NE/4 SW/4

y f) EXTEND the Burton-Yates Pool in Eddy County, New Mexico, to include therein:

✓ TOWNSHIP 20 SOUTH, RANGE 29 EAST, NMPM
SECTION 7: SE/4 NE/4 and E/2 SE/4

h g) EXTEND the South Corbin-Strawn Pool in Lea County, New Mexico, to include therein:

✓ TOWNSHIP 18 SOUTH, RANGE 33 EAST, NMPM
SECTION 27: N/2

June, 1967 Nomenclature

- h) EXTEND the Fowler-Lower Paddock Gas Pool in Lea County, New Mexico, to include therein:

✓ TOWNSHIP 24 SOUTH, RANGE 37 EAST, NMPM
SECTION 22: All

- i) EXTEND the Grayburg Jackson Queen Grayburg-San Andres Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 17 SOUTH, RANGE 29 EAST, NMPM
SECTION 10: E/2 and E/2 W/2
✓ SECTION 11: W/2
SECTION 14: N/2
SECTION 15: NE/4

- j) EXTEND the Inbe-Pennsylvanian Pool in Lea County, New Mexico, to include therein:

✓ TOWNSHIP 11 SOUTH, RANGE 33 EAST, NMPM
SECTION 24: SE/4

- k) EXTEND the Lea-Pennsylvanian Gas Pool in Lea County, New Mexico, to include therein:

✓ TOWNSHIP 20 SOUTH, RANGE 34 EAST, NMPM
SECTION 11: SW/4

- l) EXTEND the Penasco Draw San Andres-Yeso Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 19 SOUTH, RANGE 25 EAST, NMPM
✓ SECTION 4: SW/4
SECTION 5: SE/4
SECTION 8: E/2 NE/4

- m) EXTEND the South Prairie-San Andres Pool in Roosevelt County, New Mexico, to include therein:

✓ TOWNSHIP 8 SOUTH, RANGE 36 EAST, NMPM
SECTION 20: NE/4

- n) EXTEND the Vada-Pennsylvanian Pool in Lea County, New Mexico, to include therein:

✓ TOWNSHIP 9 SOUTH, RANGE 34 EAST, NMPM
SECTION 17: SW/4

- o) EXTEND the Wantz-Abo Pool in Lea County, New Mexico, to include therein:

✓ TOWNSHIP 21 SOUTH, RANGE 37 EAST, NMPM
SECTION 4: SW/4

Docket No. 18-67

DOCKET: REGULAR HEARING- FRIDAY - JUNE 16, 1967

OIL CONSERVATION COMMISSION - 9 A.M., MORGAN HALL, STATE LAND OFFICE BUILDING,
SANTA FE, NEW MEXICO

ALLOWABLE: (1) Consideration of the oil allowable for July, 1967;

(2) Consideration of the allowable production of gas for July, 1967, from thirteen prorated pools in Lea, Eddy, and Roosevelt Counties, New Mexico. Consideration of the allowable production of gas from nine prorated pools in San Juan, Rio Arriba and Sandoval Counties, New Mexico, for July, 1967, also presentation of purchasers' nominations for the six-month period beginning August 1, 1967, for that area.

CASE 3597: Southeastern New Mexico nomenclature case calling for an order for the creation of one pool and the assignment of an oil discovery allowable therein, and the creation of another pool in Lea County, New Mexico and for the extension and contraction of certain other pools in Lea, Eddy, and Roosevelt Counties, New Mexico.

(a) Create a new pool in Chaves County, New Mexico, classified as an oil pool for San Andres production and designated the Tom-tom San Andres Pool, comprising the following-described acreage:

TOWNSHIP 7 SOUTH, RANGE 31 EAST, NMPM
SECTION 34: SE/4 of the SE/4

Further, for the assignment of approximately 19,570 barrels of oil discovery allowable to the discovery well, Pan American Petroleum Corporation's Miller Federal Well No. 1 located in Unit P of said Section 34.

(b) Create a new pool in Lea County, New Mexico, classified as an oil pool for San Andres production and designated the Pearl-San Andres Pool, comprising the following-described area:

TOWNSHIP 19 SOUTH, RANGE 35 EAST, NMPM
SECTION 35: NE/4

(c) Contract the Square Lake Grayburg-San Andres Pool in Eddy County, New Mexico, by deletion of the following described area:

TOWNSHIP 17 SOUTH, RANGE 29 EAST, NMPM
SECTION 10: E/2 and E/2 W/2
SECTION 11: W/2
SECTION 14: N/2
SECTION 15: NE/4

June 16, 1967, Regular Hearing

Docket No. 18-67

(d) Extend the vertical limits of the Dollarhide-Drinkard Pool in Lea County, New Mexico, to include the Tubb formation and redesignate said pool as Dollarhide Tubb-Drinkard Pool.

(e) Extend the North Bagley-Lower Pennsylvanian Pool to include therein:

+
TOWNSHIP 11 SOUTH, RANGE 33 EAST, NMPM
SECTION 4: SE/4
SECTION 16: NW/4
SECTION 21: All
SECTION 27: All
SECTION 28: All
SECTION 29: S/2

(f) Extend the North Benson Queen-Grayburg Pool to include therein:

TOWNSHIP 18 SOUTH, RANGE 30 EAST, NMPM
SECTION 32: NE/4 SW/4

(g) Extend the Burton-Yates Pool to include therein:

TOWNSHIP 20 SOUTH, RANGE 29 EAST, NMPM
SECTION 7: SE/4 NE/4 and E/2 SE/4

(h) Extend the South Corbin-Strawn Pool to include therein:

TOWNSHIP 18 SOUTH, RANGE 33 EAST, NMPM
SECTION 27: N/2

(i) Extend the Fowler-Lower Paddock Pool to include therein:

TOWNSHIP 24 SOUTH, RANGE 37 EAST, NMPM
SECTION 22: All

(j) Extend the Grayburg Jackson Queen Grayburg-San Andres Pool to include therein:

TOWNSHIP 17 SOUTH, RANGE 29 EAST, NMPM
SECTION 10: E/2 and E/2 W/2
SECTION 11: W/2
SECTION 14: N/2
SECTION 15: NE/4

(k) Extend the Inbe-Pennsylvanian Pool to include therein:

+
TOWNSHIP 11 SOUTH, RANGE 33 EAST, NMPM
SECTION 24: SE/4

- (l) Extend the Lea-Pennsylvanian Gas Pool to include therein:

TOWNSHIP 20 SOUTH, RANGE 34 EAST, NMPM
SECTION 11: SW/4

- (m) Extend the Penasco Draw San Andres-Yeso Pool to include therein:

TOWNSHIP 19 SOUTH, RANGE 25 EAST, NMPM
SECTION 4: SW/4
SECTION 5: SE/4
SECTION 8: E/2 NE/4

- (n) Extend the South Prairie-San Andres Pool to include therein:

TOWNSHIP 8 SOUTH, RANGE 36 EAST, NMPM
SECTION 20: NE/4

- (o) Extend the Vada-Pennsylvanian Pool to include therein:

TOWNSHIP 9 SOUTH, RANGE 34 EAST, NMPM
SECTION 17: SW/4

- (p) Extend the Wantz-Abo Pool to include therein:

TOWNSHIP 21 SOUTH, RANGE 37 EAST, NMPM
SECTION 4: SW/4

PAN AMERICAN PETROLEUM CORPORATION

OIL AND GAS BUILDING

P. O. BOX 1410

FORT WORTH, TEXAS-76101

D. L. RAY
DIVISION ENGINEER

May 22, 1967

File: GHF-266-986.510.1

Subject: Application for Discovery
Allowable and Creation of a
New Pool, Pan American
Petroleum Corporation
Miller Federal No. 1
Chaves County, New MexicoNew Mexico Oil Conservation Commission
Mr. A. L. Porter, Jr.
Secretary-Director
P. O. Box 2088
Santa Fe, New Mexico*Case 3597*

Dear Sir:

Pan American Petroleum Corporation respectfully requests approval of a discovery allowable and creation of a new pool for Miller Federal No. 1 that is located 660' FSL and 660' FEL, Section 34, T-7-S, R-31-E NMPM, Chaves County, New Mexico. The requirements for a discovery allowable as set forth in Statewide Rule 509, Oil Discovery Allowable Order R-3105, September 1, 1966, have been fulfilled and the required supporting data are attached.

Pan American Petroleum Corporation's Miller Federal No. 1 was completed on April 6, 1967, from the San Andres formation for a pumping potential of 57 barrels of oil, 38 barrels of water in 24 hours with a gas-oil ratio too small to measure. Work was initiated on April 28, 1967, to open additional San Andres formation in order to increase productivity. The original completion interval was 3954-3984. An interval from 3914-3926, 3933-3943 was perforated and stimulated with 5000 gallons of acid. On a test dated May 4, 1967, Miller Federal No. 1 pumped 92 barrels of oil, 41 barrels of water in 24 hours with a gas-oil ratio too small to measure. A copy of Form C-116, Gas-Oil Ratio Test, that was submitted for Miller Federal No. 1 to reflect latest productivity is attached for your information.

The nearest San Andres production to the Miller Federal No. 1 is 2½ miles east from Cactus Drilling Corporation of Texas' Wilson Federal No. 1 located in Section 6, T-8-S, R-32-E. Figure 1 is a map depicting all wells within a two-mile radius of the discovery well and shows all wells drilled with pertinent information noted. There is none now nor has there ever been any oil production within this two-mile radius except for the recent completion of Miller Federal No. 1. Figure 2 is a

DOCKET MAILED

Date _____

File: GHF-266-986.510.1

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May 22, 1967

complete electrical log of Miller Federal No. 1 with the perforations shown along with the formation top. Figure 3 is a composite exhibit showing a cross section and a structural map to illustrate the structural position and development of the San Andres formation in the area of Miller Federal No. 1. Reservoir data such as bottom hole pressure, core analysis, and reservoir liquid characteristics are not available for the Miller Federal No. 1.

The bona fide nature of the oil discovery for Miller Federal No. 1 is supported by the fact the well is located in an area of unproven oil production. Furthermore, the 92 barrel per day test taken on May 4, 1967 demonstrates that Miller Federal No. 1 is a commercial well. Therefore, Pan American Petroleum Corporation respectfully requests favorable consideration of this application for discovery.

Yours very truly,

D. L. Ray glf

BHB:df

CC - New Mexico Oil Conservation Commission (2)
1000 W. Broadway
P. O. Box 1980
Hobbs, New Mexico
Attention: Mr. Joe D. Ramey

Offset Operators - List attached

List of Operators Owning Leases Within One Mile of Miller Federal No. 1

Allied Chemical Corporation
3000 Richmond Avenue
Houston, Texas

Atlantic Richfield Company
Box 1978
Roswell, New Mexico

Cities Service Oil Company
Cities Service Bldg.
Bartlesville, Oklahoma

Getty & Mission
Box 249
Hobbs, New Mexico

Texas Pacific Oil Company
Box 747
Dallas, Texas

MWJ Producing Company
413 First Natl. Bk. Bldg.
Midland, Texas 79701

**NEW MEXICO OIL CONSERVATION COMMISSION
APPLICATION FOR DISCOVERY ALLOWABLE AND CREATION OF A NEW POOL**

Form C-109
Adopted 9-1-66

NOTE: This form is to be filed and attachments made in accordance with the provisions of Rule 509.
If discovery is claimed for more than one zone, separate forms must be filed for each.

Operator Pan American Petroleum Corporation		Address Box 1410, Fort Worth, Texas	
Lease Name Miller Federal		Well No. 1	County Chaves
Well Location Unit Letter P ; 660 Feet from The South Line and 660 Feet From the East Line of Section 34 , Township 7 South , Range 31 East , NMPM			
Suggested Pool Names (List in order of preference) 1. Southard San Andres 2. Tom Tom-San Andres 3. Tom San Andres			
Name of Producing Formation San Andres		Perforations 3914-26, 3933-48, & 3954-84	Date of Filing Form C-104 4-14-67
Was "Affidavit of Discovery" Previously Filed For This Well in this Pool? No		If Yes, Give Date of Filing -	Date Well was Spudded 3-15-67
Total Depth 4385		Plugged Back Depth 4025	Depth Casing Shoe 4385
Tubing Depth 4005		Elevation (Gr., DF, RKB, RT, etc.) 4325 RDB	
Oil Well Potential (Test to be taken only after all load oil has been recovered) 57 Bbls, Oil Per Day Based On 57 Bbls In 24 Hours; 38 Bbls Water Per Day Based On 38 Bbls In 24 Hours; Gas Production During Test: NA MCF; Gas-Oil Ratio: - Method Of Producing: Pump Chk. Size: -			

NEAREST PRODUCTION TO THIS DISCOVERY (Includes past and present oil or gas producing areas and zones whether this discovery is based on horizontal or vertical separation):

Pool Name Undesignated San Andres *	Name of Producing Formation San Andres	Top of Pay 4053	Bottom of Pay 4069	Currently Producing? Yes
Horizontal Distance and Direction from Subject Discovery Well to the Nearest Well in this Pool 2½ miles east		Vertical Distance from Subject Discovery Zone to Producing Interval this Pool 85'		

***Cactus Drilling Corp. of Texas Wilson-Federal No. 1 Section 6, T-8-S, R-32-E**
NEAREST COMPARABLE PRODUCTION (Includes past and present oil or gas production from this pay or formation only):

Pool Name Undesignated San Andres*	Top of Pay 4053	Bottom of Pay 4069	Currently Producing? Yes
Horizontal Distance and Direction from Subject Discovery Well to the Nearest Well in this Comparable Pool 2½ miles east			

Is "County Deep" Discovery Allowable Requested for Subject Discovery Well?	If Yes, Give Name, Location, and Depth of Next Deepest Oil Production in this County 4 3914
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Is the Subject Well Multiple Completion?	Is Discovery Allowable Requested for other Zone(s)?	If Yes, Name all Such Formations 19570
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LIST ALL OPERATORS OWNING LEASES WITHIN ONE MILE OF THIS WELL (Attach additional sheet if necessary)

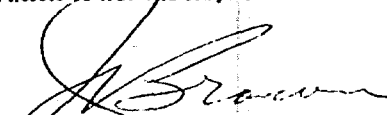
NAME	ADDRESS
Allied Chemical Corporation	3000 Richmond Ave., Houston, Texas
Atlantic Richfield Company	Box 1978, Roswell, New Mexico
Cities Service Oil Company	Cities Service Bldg., Bartlesville, Okla.
Getty & Mission	Box 249, Hobbs, New Mexico
Texas Pacific Oil Company	Box 747, Dallas, Texas
MWJ Producing Company	413 First Natl. Bk. Bldg., Midland, Texas

Attach evidence that all of the above operators have been furnished a copy of this application. Any of said operators who intends to object to the designation of the subject well as a discovery well, eligible to receive a discovery allowable, must notify the appropriate District Office and the Santa Fe Office of the Commission of such intent in writing within ten days after receiving a copy of this application.

Remarks:

CERTIFICATION

I hereby certify that all rules and regulations of the New Mexico Oil Conservation Commission have been complied with, with respect to the subject well, and that it is my opinion that a bona fide discovery of a hitherto unknown common source of oil supply has been made in said well. I further certify that the discovery allowable for the subject well, if authorized, will be produced from the subject zone in this well only. Further, that the information given herein and attached hereto is true and complete to the best of my knowledge and belief.

 Signature	Asst. Prod. Supt. Position	5-22-67 Date
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REQUEST FOR THE EXTENSION OF AN EXISTING POOL
OR
THE CREATION OF A NEW POOL

TO: The Oil Conservation Commission
State of New Mexico

Date May 23, 1967

The Pan American Petroleum Corporation Miller Federal
Name of Operator Name of Lease
1 Located 660 feet from the South line and 660 feet
Well No.
from the East line of 34 T-7-S R-31-E
Section Township Range

is outside the boundaries of any pool producing from the same formation. On the basis of the information submitted here-
with on form C-105, we hereby request that the
pool be extended to include the following described area

or that a new pool be created to include the following described area SE/4 of SE/4 (Unit P)
Section 34, T-7-S, R-31-E

Suggested name: Southard San Andres

Pan American Petroleum Corporation
Operator

Name of Producing Formation: San Andres

Representative

C-118
Revised 1-1-85

Address 50 x 60, HUDSON, N.Y. 08240

TYPE OF
TEST - (X)

Scheduled ☐

Completion ☐

Special ☒

LEASE NAME	WELL NO.	LOCATION				DATE OF TEST	STATUS	CHOKE SIZE	TBG. PRESS.	DAILY ALLOWABLE	LENGTH OF TEST HOURS	PROD. DURING TEST				GAS - OIL RATIO CU.FT./BU
		U	S	T	R							WATER BBLs.	GRAV. OIL	OIL BBLs.	GAS M.C.F.	
MILLER Federal	1	P	3A	7	31	54-67P	-	-	47	24	41	-	92	NEG		
<p><i>"Special Test - E 20-30 Days after Completion"</i></p>																
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> RECEIVED ENGR. MAY 16 1967 38C. FORT WORTH </div>																

I hereby certify that the above information is true and complete to the best of my knowledge and belief.

J. E. Math
(Signature)
Area Engineer
(Title)
5-15-67
(Date)

GOVERNOR
DAVID F. CARGO
CHAIRMAN

AM 8 14

State of New Mexico
Oil Conservation Commission



LAND COMMISSIONER
GUYTON B. HAYS
MEMBER

STATE GEOLOGIST
A. L. PORTER, JR.
SECRETARY - DIRECTOR

P. O. BOX 1980
HOBBS
May 29, 1967

Mr. Dan Nutter
Chief Engineer
New Mexico Oil Conservation Commission
Post Office Box 2088
Santa Fe, New Mexico

Re: Pan American Petroleum Corporation
Discovery Allowable on
Miller Federal No. 1
Section 34, T-7-S, R-31-E

Dear Dan:

I recommend that the Miller Federal No. 1 be given a discovery allowable as applied for. I also recommend that a new pool be created and called the Best Lake-San Andres Pool. (Said lake is close by.)

- (1) Their application for a discovery allowable is in good order with all required exhibits.
- (2) The new pool is a stratigraphic trap, as shown by the structure map. Dip of the San Andres formation is normal for the area.
- (3) The reservoir is apparently controlled by a permeability pinch out up dip to the west, as indicated by the dry holes to the west.
- (4) Nearest production to the east (2½ miles) is also most likely to be permeability controlled on its west side, leaving the discovery well, Pan American Petroleum Corporation's Miller

-2-

Federal No. 1, located in Unit P of Section 34, Township 7 South,
Range 31 East, as a separate oil reservoir.

Very truly yours,

OIL CONSERVATION COMMISSION

John W. Runyan
John W. Runyan
District Geologist

JWR:fd

PAN AMERICAN PETROLEUM CORPORATION

OIL AND GAS BUILDING

P. O. BOX 1240

FORT WORTH, TEXAS 76101

May 22, 1967

File: GHP-266-986.510.1

Subject: Application for Discovery
Allowable and Creation of a
New Pool, Pan American
Petroleum Corporation
Miller Federal No. 1
Chaves County, New Mexico

New Mexico Oil Conservation Commission
Mr. A. L. Porter, Jr.
Secretary-Director
P. O. Box 2088
Santa Fe, New Mexico

Case 3597

Dear Sir:

Pan American Petroleum Corporation respectfully requests approval of a discovery allowable and creation of a new pool for Miller Federal No. 1 that is located 660' FSL and 660' FXL, Section 34, T-7-S, R-31-E NMPM, Chaves County, New Mexico. The requirements for a discovery allowable as set forth in Statewide Rule 509, Oil Discovery Allowable Order R-3105, September 1, 1966, have been fulfilled and the required supporting data are attached.

Pan American Petroleum Corporation's Miller Federal No. 1 was completed on April 6, 1967, from the San Andres formation for a pumping potential of 57 barrels of oil, 38 barrels of water in 24 hours with a gas-oil ratio too small to measure. Work was initiated on April 28, 1967, to open additional San Andres formation in order to increase productivity. The original completion interval was 3954-3984. An interval from 3914-3926, 3933-3943 was perforated and stimulated with 5000 gallons of acid. On a test dated May 4, 1967, Miller Federal No. 1 pumped 92 barrels of oil, 41 barrels of water in 24 hours with a gas-oil ratio too small to measure. A copy of Form C-116, Gas-Oil Ratio Test, that was submitted for Miller Federal No. 1 to reflect latest productivity is attached for your information.

The nearest San Andres production to the Miller Federal No. 1 is 2½ miles east from Cactus Drilling Corporation of Texas' Wilson Federal No. 1 located in Section 6, T-8-S, R-32-E. Figure 1 is a map depicting all wells within a two-mile radius of the discovery well and shows all wells drilled with pertinent information noted. There is none now nor has there ever been any oil production within this two-mile radius except for the recent completion of Miller Federal No. 1. Figure 2 is a

File: ~~CH~~-266-986.510.1

- 2 -

May 22, 1967

complete electrical log of Miller Federal No. 1 with the perforations shown along with the formation top. Figure 3 is a composite exhibit showing a cross section and a structural map to illustrate the structural position and development of the San Andres formation in the area of Miller Federal No. 1. Reservoir data such as bottom hole pressure, core analysis, and reservoir liquid characteristics are not available for the Miller Federal No. 1.

The bona fide nature of the oil discovery for Miller Federal No. 1 is supported by the fact the well is located in an area of unproven oil production. Furthermore, the 92 barrel per day test taken on May 4, 1967 demonstrates that Miller Federal No. 1 is a commercial well. Therefore, Pan American Petroleum Corporation respectfully requests favorable consideration of this application for discovery.

Yours very truly,

D. L. Ray

END:df

CC - New Mexico Oil Conservation Commission (2)
1000 W. Broadway
P. O. Box 1980
Hobbs, New Mexico
Attention: Mr. Joe D. Ramey

Offset Operators - List attached

List of Operators Owning Leases Within One Mile of Miller Federal No. 1

Allied Chemical Corporation
3000 Richmond Avenue
Houston, Texas

Atlantic Richfield Company
Box 1978
Roswell, New Mexico

Cities Service Oil Company
Cities Service Bldg.
Bartlesville, Oklahoma

Getty & Mission
Box 249
Hobbs, New Mexico

Texas Pacific Oil Company
Box 747
Dallas, Texas

MWJ Producing Company
413 First Natl. Bk. Bldg.
Midland, Texas 79701

NEW MEXICO OIL CONSERVATION COMMISSION
 DISCOVERY ALLOWABLE AND CREATION OF A NEW POOL

Form C-109
 Adopted 9-1-66

NOTE: This form is to be filed and attachments made in accordance with the provisions of Rule 100BBS OFFICE O.C.C.
 Discovery Allowable and more than one form, copy and form must be filed for each.

MAY 24 11 47 AM '67

Case 3597

Operator Tom American Petroleum Corporation		Address Box 1410, Fort Worth, Texas	
Well No. Miller Federal		County Chaves	
Unit Letter: P 660 Feet from The South Line and 660 Feet			
Section 34 Township 7 South Range 31 East NMPM			
Name of Producing Formation Southard San Andres 2. Tom Tom San Andres 3. Tom San Andres			
San Andres		Date of Filing Form C-104 4-14-67	
Perforations 3914-26, 3933-48, & 3954-84		Date Well was Spudded 3-15-67	
Date "Discovery" Previously Filled No		Date Compl. Ready to Prod. 4-6-67	
Total Depth 4385	Plugged Back Depth 4025	Depth Casing Shoe 4385	Tubing Depth 4005
Elevation (Gr., DF, RKB, RT, etc.) 4325 RDB			
Oil Well Potential (Test to be taken only after all load oil has been recovered) 57 Bbls. Oil Per Day Based On 57 Bbls In 24 Hours; 38 Bbls Water Per Day Based On 38 Bbls			
In 24 Hours Gas Production During Test: NA MCF; Gas-Oil Ratio: - Method Of Producing: Pump Chk. Size: -			

NEAREST PRODUCTION TO THIS DISCOVERY (Includes past and present oil or gas producing areas and zones whether this discovery is based on horizontal or vertical separation):

Pool Name	Name of Producing Formation	Top of Pay	Bottom of Pay	Currently Producing?
Undesignated San Andres	San Andres	4053	4069	Yes
Horizontal Distance and Direction from Subject Discovery Well to the Nearest Well in this Pool: 2 1/2 miles east		Vertical Distance from Subject Discovery Zone to Producing Interval this Pool: 85'		

*Cactus Drilling Corp. of Texas Wilson-Federal No. 1 Section 6, T-8-S, R-32-E

NEAREST COMPARABLE PRODUCTION (Includes past and present oil or gas production from this pay or formation only):

Pool Name	Top of Pay	Bottom of Pay	Currently Producing?
Undesignated San Andres*	4053	4069	Yes
Horizontal Distance and Direction from Subject Discovery Well to the Nearest Well in this Comparable Pool: 2 1/2 miles east			

Is "County Deep" Discovery Allowable Requested for Subject Discovery Well?	If Yes, Give Name, Location, and Depth of Next Deepest Oil Production in this County
--	--

Is the Subject Well Multiple Completion?	Is Discovery Allowable Requested for other Zone(s)?	If Yes, Name all Such Formations
--	---	----------------------------------

LIST ALL OPERATORS OWNING LEASES WITHIN ONE MILE OF THIS WELL (Attach additional sheet if necessary)

NAME	ADDRESS
Allied Chemical Corporation	3000 Richmond Ave., Houston, Texas
Atlantic Richfield Company	Box 1978, Roswell, New Mexico
Cities Service Oil Company	Cities Service Bldg., Bartlesville, Okla.
Gerry & Mission	Box 249, Hobbs, New Mexico
Texas Pacific Oil Company	Box 747, Dallas, Texas
MWJ Producing Company	413 First Natl. Bk. Bldg., Midland, Texas 79701

Attach evidence that all of the above operators have been furnished a copy of this application. Any of said operators who intends to object to the designation of the subject well as a discovery well, eligible to receive a discovery allowable, must notify the appropriate District Office and the Santa Fe Office of the Commission of such intent in writing within ten days after receiving a copy of this application.

--

I, the undersigned, certify that all provisions of the New Mexico Oil Conservation Commission have been complied with, with respect to the subject well, and that the information given herein and thereon is true and correct to the best of my knowledge and belief.

 Date: 5-22-67

HOBBS OFFICE 0
(Revised 7/1/55)

MAY 24 11 40 AM

REQUEST FOR THE EXTENSION OF AN EXISTING POOL

OR

THE CREATION OF A NEW POOL

Case 3597

TO: The Oil Conservation Commission
State of New Mexico

Date May 23, 1957

The Pan American Petroleum Corporation
Name of Operator

Miller Federal
Name of Lease

1 Located 660 feet from the South line and 660 feet
Well No.

from the East line of 34 Section T-7-S R-31-E
Township Range

is outside the boundaries of any pool producing from the same formation. On the basis of the information submitted here-
with on form C-105, we hereby request that the

pool be extended to include the following described area

or that a new pool be created to include the following described area SE/4 of SE/4 (Unit P)

Section 34, T-7-S, R-31-E

Suggested name: Southard San Andres

Pan American Petroleum Corporation
Operator

Name of Producing Formation: San Andres

Representative

Best Lake La

C-116
Revised 1-1-65

C116

Revised 1-1-65

County CHAVES

TYPE OF TEST - (X)

Scheduled ☐

Completion ☐

Special ☒

RECEIVED
ENGR.
MAY 16 1967
SEC.
FORT WORTH

J. C. Math
 (Signature)
 Civil Engineer
 (Title)
 5-16-67
 (Date)

NEW MEXICO OIL CONSERVATION COMMISSION

REGULAR HEARING

SANTA FE, NEW MEXICO

REGISTERHEARING DATE JUNE 16, 1967TIME: 9 A.M.

NAME:	REPRESENTING:	LOCATION:
W.R. Rhodes	Sinclair Refy. Co.	Tulsa, Okla
J.W. Talbert	" " "	" "
John A. Lucas	" " "	Midland Tex
Joseph E. Black	Guaj Oil Corp.	Houston, Tex.
Mike Williams	"	Midland Texas
Sammy Young	Shell Oil Co.	Los Angeles
M.T. Smith	Signal Oil & Gas	Midland
H.A. Grogan	Hammer Oil & Gas	✓
W.D. Keene	Texaco Inc.	✓
K.D. Stokes	Continental Oil Co.	Houston
A.L. Curbier	Permian	Jarmington
Donald L. Anderson	El Paso Natural Gas Co.	El Paso, Texas
DD Lee	Shell Oil Co	Houston, Texas
CG Savage	Texaco Inc.	Midland, Texas
Ray Thacker	Signal Oil & Gas Co	Houston, Tex
JC Fort	Shell	Midland, Tex
J.M. Glendinning	Mobil Oil Corp.	✓ ✓
J. E. Leavacher	Panam. Petr. Corp.	— —
E. E. Long	Phillips Pet Corp	Boothville Okla.
H.B. Hamilton	" "	Midland, Tex

NEW MEXICO OIL CONSERVATION COMMISSION

REGULAR HEARINGSANTA FE, NEW MEXICOREGISTERHEARING DATE JUNE 16, 1967 TIME: 9 A.M.

NAME:	REPRESENTING:	LOCATION:
Walter J. Manning Jr.	Tamamun Oil	Hobbs
A. Downey	Tamamun Oil	"
Alvin Booker	Cities Service Co.	Midland
Joe S. Ramez	N.M.O.C.C.	Hobbs

dearnley-meier

SPECIALIZING IN: DEPOSITIONS, HEARINGS, STATEMENTS, EXPERT TESTIMONY, DAILY COPY, CONVENTIONS
1120 SIMMS BLDG. • P.O. BOX 1092 • PHONE 243-4691 • ALBUQUERQUE, NEW MEXICO 87101
1400 FIRST NATIONAL BANK EAST • PHONE 256-1294 • ALBUQUERQUE, NEW MEXICO 87108

MR. PORTER: We are going to reverse the order a little bit this morning and take up Case 3597, Southeastern nomenclature. Are you ready to go on that, Mr. Ramey?

MR. RAMEY: Yes.

MR. HATCH: In Case 3597, the southeastern New Mexico nomenclature case calling for an order for the creation of one pool and the assignment of an oil discovery allowable therein, and the creation of another pool in Lea County, New Mexico and for the extension and contraction of certain other pools in Lea, Eddy, and Roosevelt Counties, New Mexico.

(Witness sworn.)

JOE D. RAMEY, called as a witness, having been first duly sworn, was examined and testified as follows:

DIRECT EXAMINATION

BY MR. HATCH:

Q Would you state your name and position for the Record?

A Joe D. Ramey, supervisor of District One, New Mexico Oil Conservation Commission.

Q Are you prepared to make recommendations to the Commission concerning the creation of certain pools, the assignment of an oil discovery allowable to one of the pools, and the extension and contraction of certain other pools in Chaves, Lea, Eddy, and Roosevelt Counties, New Mexico?

A Yes, sir.

dearnley-meier

SPECIALIZING IN: DEPOSITIONS, HEARINGS, STATEMENTS, EXPERT TESTIMONY, DAILY COPY, CONVENTIONS

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Q Have you prepared an exhibit relative to your recommendations?

A Yes, sir, I have.

Q What is the exhibit number?

A Exhibit Number One, paragraph A through P, Southeast New Mexico nomenclature.

Q Will you please refer to your exhibit and to paragraph A of Case 3597 and make your recommendations to the Commission concerning the creation of the new pool in Chaves County, New Mexico and the assignment of an oil discovery allowable to the discovery well, Pan American Petroleum Corporation's Miller Federal Well Number One?

A It is recommended that this pool be created and designated as the Tom-tom San Andres oil pool. Discovery well is as you mentioned, Pan American Petroleum Company Miller Federal Well Number One located in Unit P of Section 34, Township 7 South, Range 31 East, complete on April 7, 1967, top of the perforations is that 3954. Further, it is recommended that the discovery allowable of 19,570 barrels be assigned this well.

Q Would you please refer again to your exhibit and describe paragraphs B through P and point out any substantial differences that exists between the two and any corrections that need to be made?

A The only difference between what is shown on the docket and my exhibit would be in paragraph E, we have the following additions: Section 8 -- These are all in Township 11 South, Range 33 East. Section 8, Southeast quarter; Section 9, the South half; Section 10, Northeast quarter; Section 11, Northwest quarter; Section 15, the Northeast quarter and in paragraph K in Township 11 South, Range 33 East an addition of Section 13, the Southwest quarter. Further, in Township 10 South, Range 33 East, Section 27, Southwest quarter; Township 11 South, Range 34 East; Section 8, the Northwest quarter and then in paragraph O an addition in Township 9 South, Range 34 East, Section 17, the Southeast quarter. The remainder is as advertised on the docket.

Q Do you recommend that the pools be created and pools extended and contracted as advertised and corrected?

A Yes, sir.

Q You previously stated that Exhibit One was prepared by you or under your supervision?

A Yes, it was.

Q I would like to move the introduction of the Exhibit One into evidence at this time.

MR. PORTER: Without objection, the exhibit will be admitted. Are there any questions of Mr. Ramey? Witness may be dismissed. Anything further to be offered in Case 3597?

dearnley-meier

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dearnley-meier

PAGE 5

The Commission will take the case under advisement. We will take up the next consideration for the gas allowable.

dearnley-meier

SPECIALIZING IN: DEPOSITIONS, HEARINGS, STATEMENTS, EXPERT TESTIMONY, DAILY COPY, CONVENTIONS

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PAGE 6

I N D E X

WITNESS

PAGE

JOE D. RAMEY

Direct Examination by Mr. Hatch

2

STATE OF NEW MEXICO)
) ss.
COUNTY OF BERNALILLO)

I, Joe Jameson, do hereby certify that the foregoing and attached Transcript of Hearing before the New Mexico Oil Conservation Commission was reported by me; that the same is a true and correct record of the said proceedings, to the best of my knowledge, skill and ability.


COURT REPORTER

CASE 3597: (a) CREATION OF A NEW OIL POOL

COUNTY CHAVES

POOL TOM-TOM SAN ANDRES

TOWNSHIP 7 South

RANGE 31 East

NMPM

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

PURPOSE: One completed oil well capable of producing.

PAN AMERICAN PETROLEUM CORPORATION - Miller Federal #1 in Unit P of Section 34-7-31. Completed in San Andres on April 7, 1967. Top of Perforations 3954'.

Proposed pool boundary colored in red. SECTION 34: SE/4 SE/4

CASE 3597: (b) CREATION OF A NEW OIL POOL

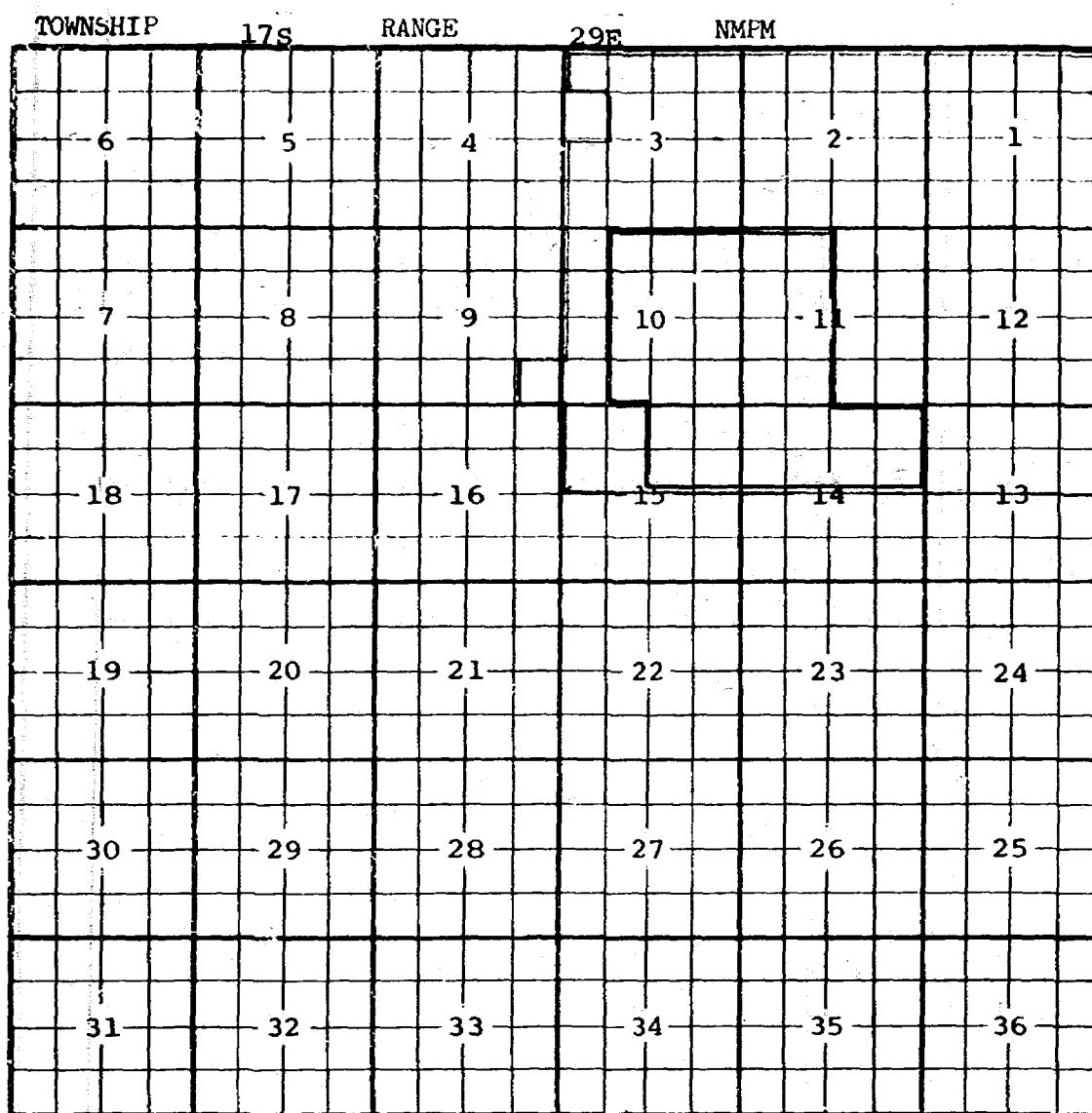
COUNTY	LEA	POOL	PEARL-SAN ANDRES		
TOWNSHIP	19 South	RANGE	35 East	NMPM	
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

PURPOSE: One completed oil well capable of producing.

SHELL OIL COMPANY - Record #2 in Unit G of Section 35-19-35. Completed in San Andres on April 10, 1967. Top of Perforations 5320'.

Proposed pool boundary colored in red. SECTION 35: NE/4

CASE 3597: (c) DELETION OF AN EXISTING OIL POOL
COUNTY Eddy POOL Square Lake (G-SA)



Purpose: To delete certain acreage from the Square Lake Pool and place the same in the Grayburg Jackson Pool. This change is to place all of an operators wells on one lease in a water-flood in one pool.

Pool boundary colored in red.

Proposed deletion colored in blue.

Section 10: E/2 & E/2 W/2

Section 11: W/2

Section 14: N/2

Section 15: NE/4

CASE 3597: (d) EXTENSION OF VERTICAL LIMITS OF AN EXISTING OIL POOL (Continued on next page)

COUNTY LEA POOL DOLLARHIDE-DRINKARD
TOWNSHIP 24 South RANGE 38 East REDESIGNATED - DOLLARHIDE TUBB-DRINKARD NMFM

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

PURPOSE: Extend the vertical limits to allow for the salvage of oil from the Tubb formation, which does not produce enough to be economical for the cost of dualling or drilling new wells.

Pool boundary colored in red. SECTION 19: All

SECTION 20: W/2 SW/4

SECTION 28: All

SECTION 29: All

SECTION 30: All

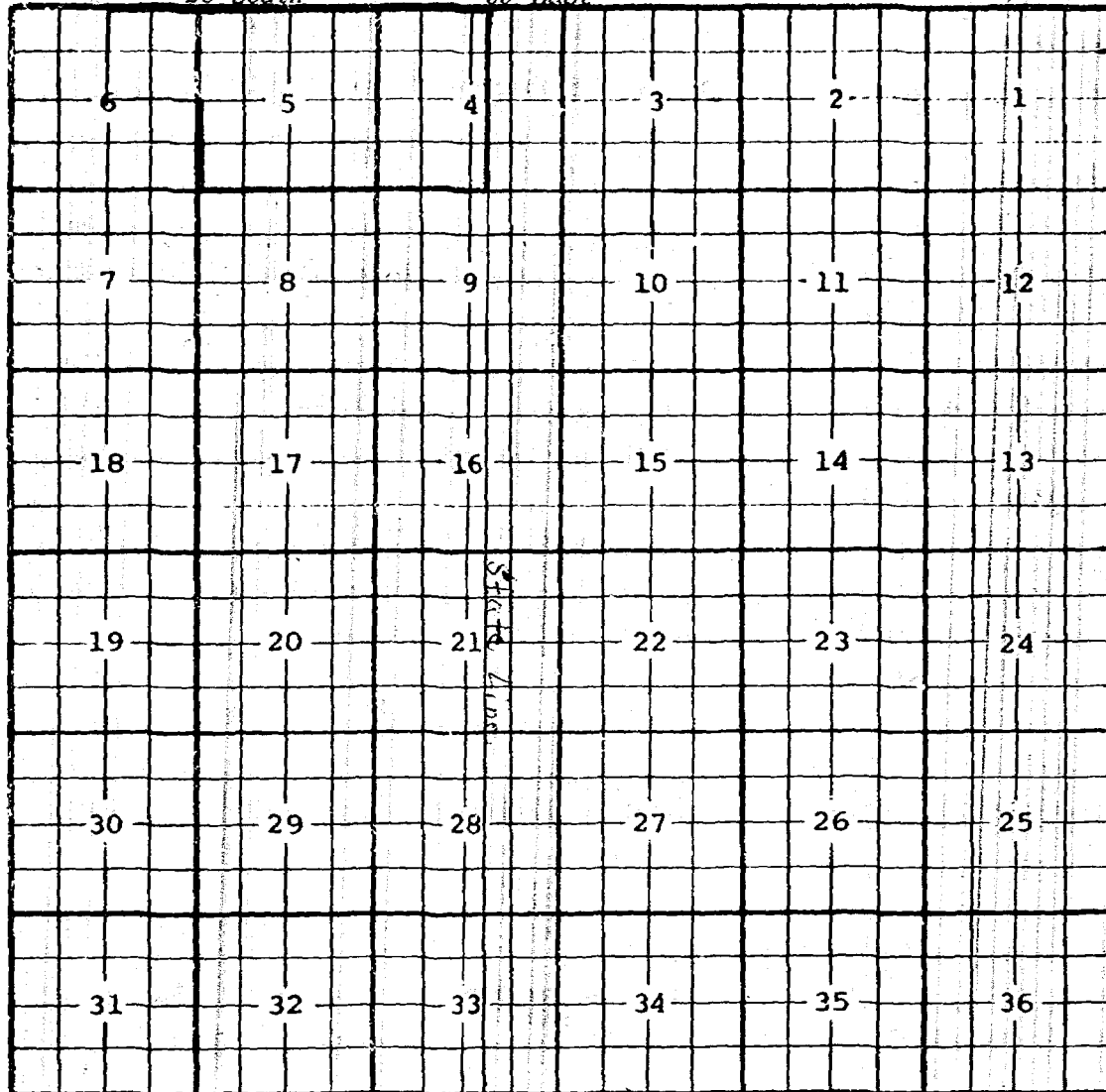
SECTION 31: All

SECTION 32: All

SECTION 33: All

CASE 3597: (d) EXTENSION OF VERTICAL LIMITS OF AN EXISTING OIL POOL (Continued)

COUNTY LEA POOL DOLLARHIDE-DRINKARD
 TOWNSHIP 25 South RANGE 38 East REDESIGNATED - DOLLARHIDE TUBB-DRINKARD NMFM



PURPOSE: As stated on preceding page, paragraph (d), Exhibit I.

Pool boundary colored in red. SECTION 4: All

SECTION 5: All

SECTION 6: NE/4

CASE 3597: (e) EXTENSION OF AN EXISTING OIL POOL

COUNTY LEA

POOL NORTH BAGLEY-LOWER PENNSYLVANIAN

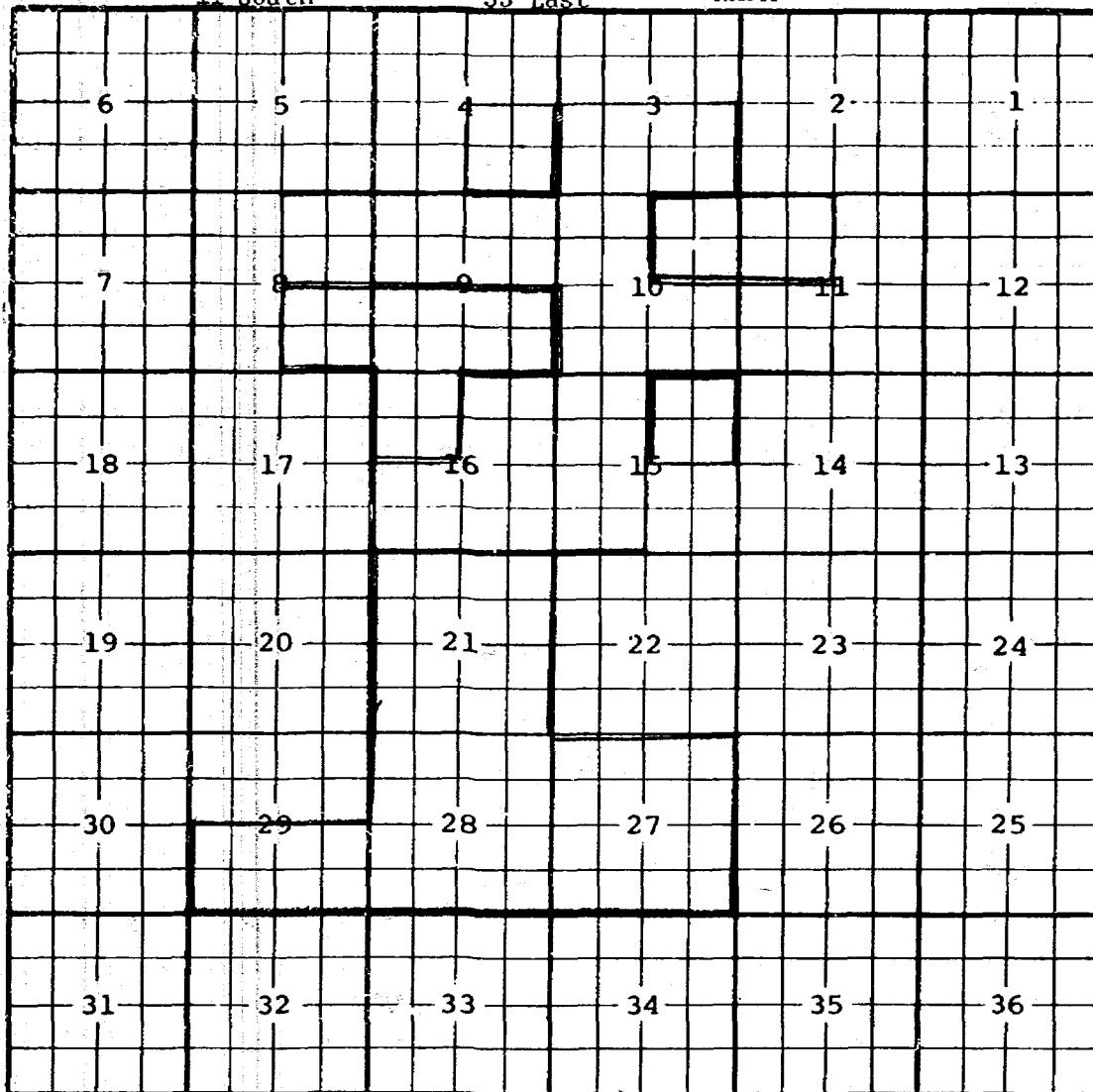
TOWNSHIP

11 South

RANGE

33 East

NMPM



PURPOSE: Ten completed oil wells capable of producing. (Wells listed on attached sheet.)

Pool boundary colored in red.

Proposed pool extensions colored in green. SECTION 4: SE/4

SECTION 16: NW/4

SECTION 21: All

SECTION 27: All

SECTION 28: All

SECTION 29: S/2

ADDITIONS---SECTION 8: SE/4

SECTION 9: S/2

SECTION 10: NE/4

SECTION 11: NW/4

SECTION 15: NE/4

COUNTY	LEA	POOL	NORTH BAGLEY-LOWER PENNSYLVANIAN	
TOWNSHIP	11 South	RANGE	33 East	NMPM

STOLTZ & COMPANY-CLARK - Sohio State #1 in Unit P of Section 4-11-33. Completed in Lower Pennsylvanian on April 15, 1967. Top of Perforations 10,174'.

PAN AMERICAN PETROLEUM CORPORATION - State DG #1 in Unit F of Section 16-11-33. Completed in Lower Pennsylvanian on January 25, 1967. Top of Perforations 10,008'.

U. S. SMELTING, REFINING & MINING COMPANY - Bagley State #3 in Unit C of Section 16-11-33. Completed in Pennsylvanian on March 9, 1967. Top of Perforations 10,086'.

BELL PETROLEUM COMPANY - State K #1 in Unit K of Section 21-11-33. Completed in Lower Pennsylvanian on April 21, 1967. Top of Perforations 9839'.

PAN AMERICAN PETROLEUM CORPORATION - State "DH" #1 in Unit I of Section 21-11-33. Completed in Lower Pennsylvanian on February 6, 1967. Top of Perforations 9912'.

PAN AMERICAN PETROLEUM CORPORATION - State DH #2 in Unit P of Section 21-11-33. Completed in Lower Pennsylvanian on March 20, 1967. Top of Perforations 9893'.

STOLTZ & COMPANY - Bell "B" #1 in Unit E of Section 21-11-33. Completed in Lower Pennsylvanian on February 10, 1967. Top of Perforations 9961'.

STOLTZ & COMPANY-CLARK - Sinclair "3" State #1 in Unit G of Section 27-11-33. Completed in Lower Pennsylvanian on March 20, 1967. Top of Perforations 9850'.

STOLTZ & COMPANY-CLARK - Warren State #1 in Unit G of Section 28-11-33. Completed in Lower Pennsylvanian on March 6, 1967. Top of Perforations 9878'.

STOLTZ & COMPANY-CLARK - Sunray B State #1 in Unit K of Section 29-11-33. Completed in Lower Pennsylvanian on February 9, 1967. Top of Perforations 10,202'.

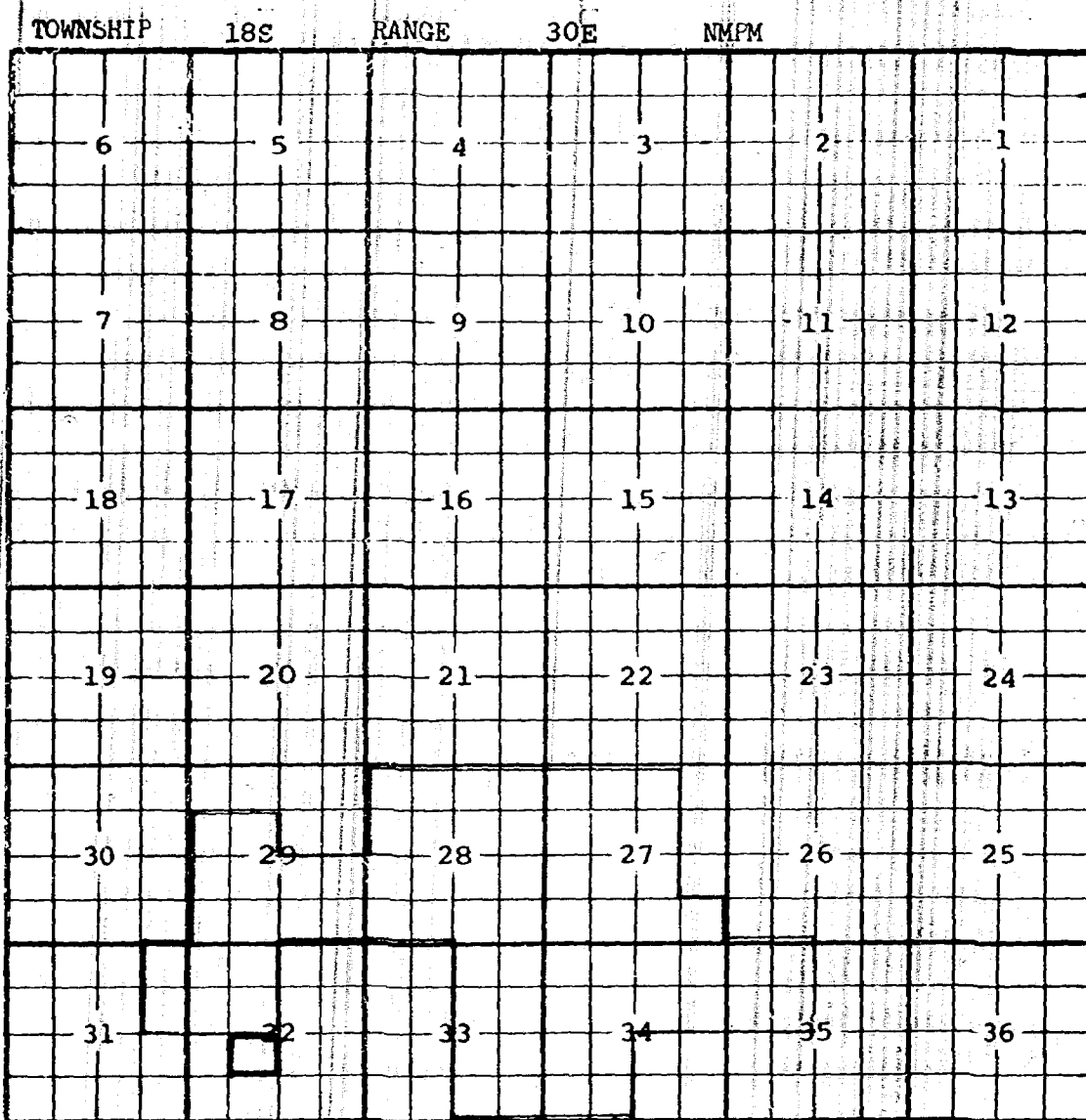
ADDITION--STOLTZ & COMPANY-CLARK - Champlin #1 in Unit I of Section 8-11-33. Completed in Lower Pennsylvanian on May 9, 1967. Top of Perforations 10,114'.

ADDITION--SOUTHERN NATURAL GAS COMPANY - State C #2 in Unit E of Section 11-11-33. Completed in Lower Pennsylvanian on April 30, 1967. Top of Perforations 10,105'.

ADDITION--GULF OIL CORPORATION - Lea HP State #1 in Unit B of Section 15-11-33. Completed in Lower Pennsylvanian on May 24, 1967. Top of Perforations 10,072'.

CASE 3597: (f) EXTENSION OF AN EXISTING OIL POOL

COUNTY Eddy POOL North Benson-Queen-Grayburg



Purpose: One completed oil well capable of producing.

Texaco Inc., N. M. CY State NCT-1 well No.4 in unit K of section 32-18-30. Completed in Queen, March 30, 1967, through perforations 2574' to 2943'.

Pool boundary colored in red.

Proposed extension colored in green.

Section 32: NE/4 SW/4

CASE 3597: (g) EXTENSION OF AN EXISTING OIL POOL
COUNTY Eddy POOL Burton (Yates)

TOWNSHIP	20S	RANGE	29E	NMPM	
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

Purpose: One completed oil well capable of producing.

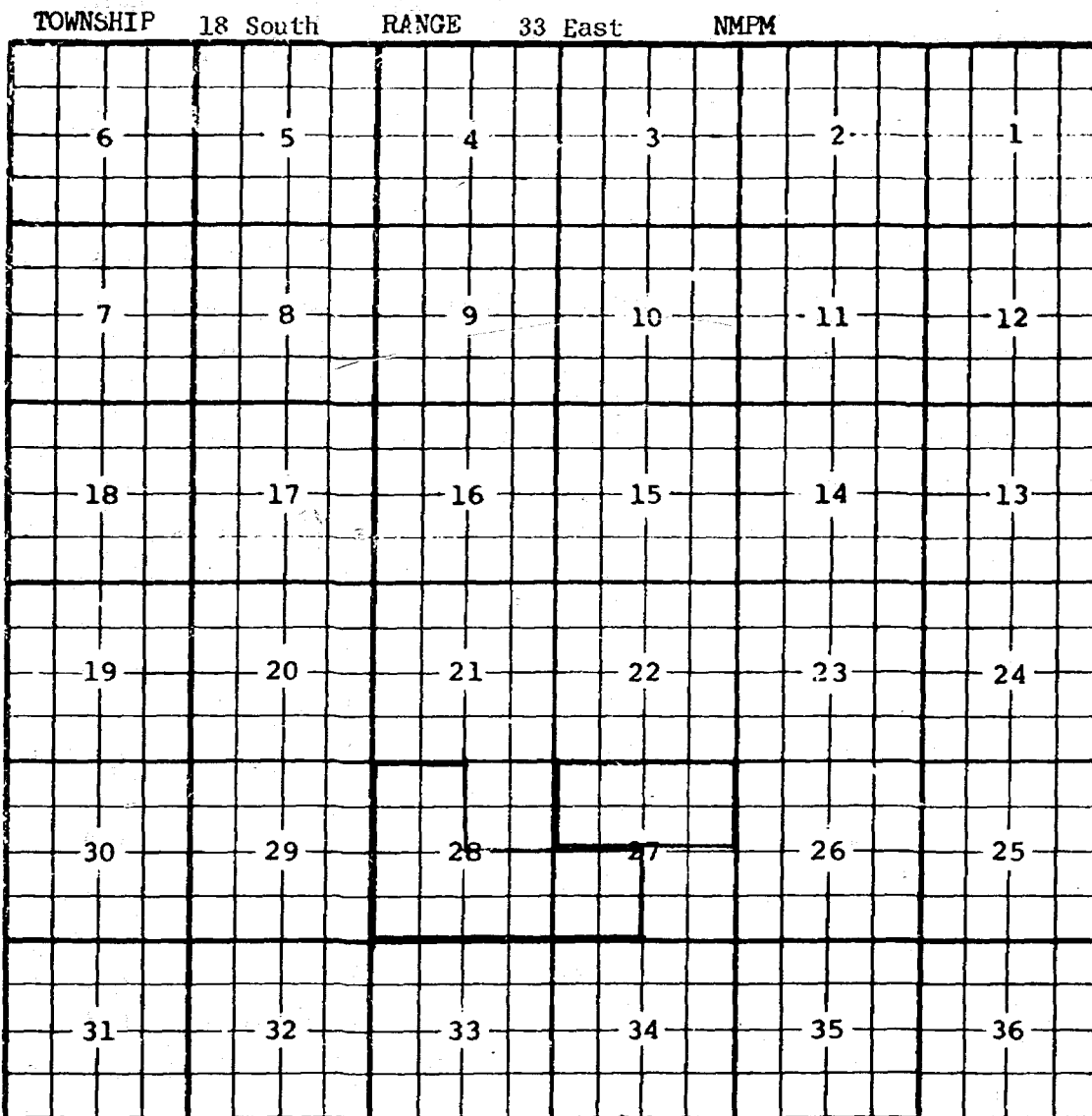
Yates Petroleum Corp., Williamson BC well No.2 in unit P of section 7-20-29. Completed in Yates, November 1, 1966, through perforations 1122' to 1162'.

Pool boundary colored in red.

Proposed extension colored in green.

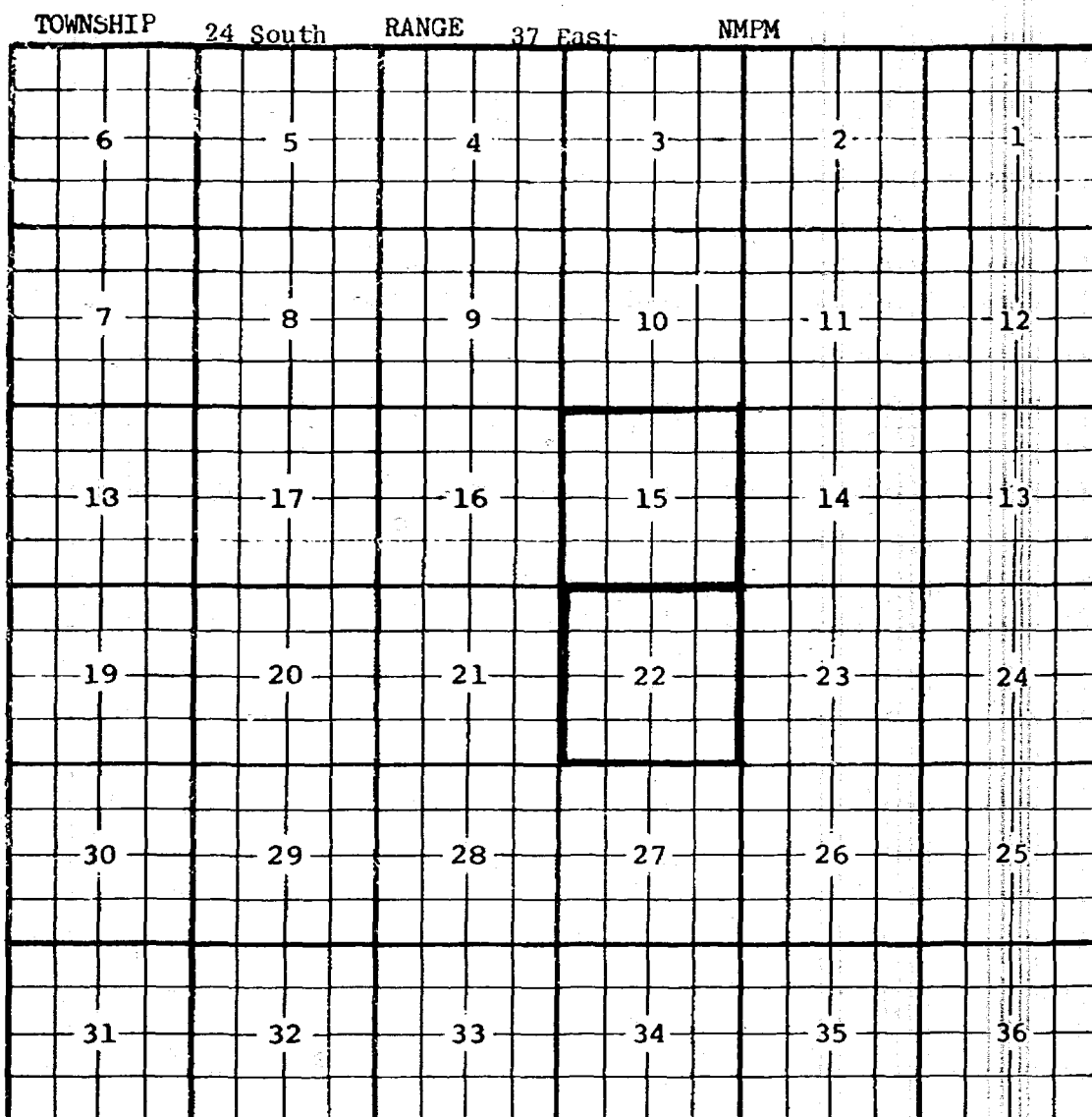
Section 7: SE/4 NE/4 &
E/2 SE/4

CASE 3597: (h) EXTENSION OF AN EXISTING OIL POOL
COUNTY LEA POOL SOUTH CORBIN-STRAWN



PURPOSE: One completed oil well capable of producing.
AZTEC OIL & GAS COMPANY - Federal MA #1 in Unit G of Section 27-18-33.
Completed in Strawn on April 15, 1967. Top of Perforations 13,334'.
Pool boundary colored in red.
Proposed pool extension colored in green. SECTION 27: N/2

CASE 3597: (i) EXTENSION OF AN EXISTING GAS POOL
COUNTY LEA POOL FOWLER-LOWER PADDOCK GAS



PURPOSE: Two completed oil wells capable of producing in a gas pool.

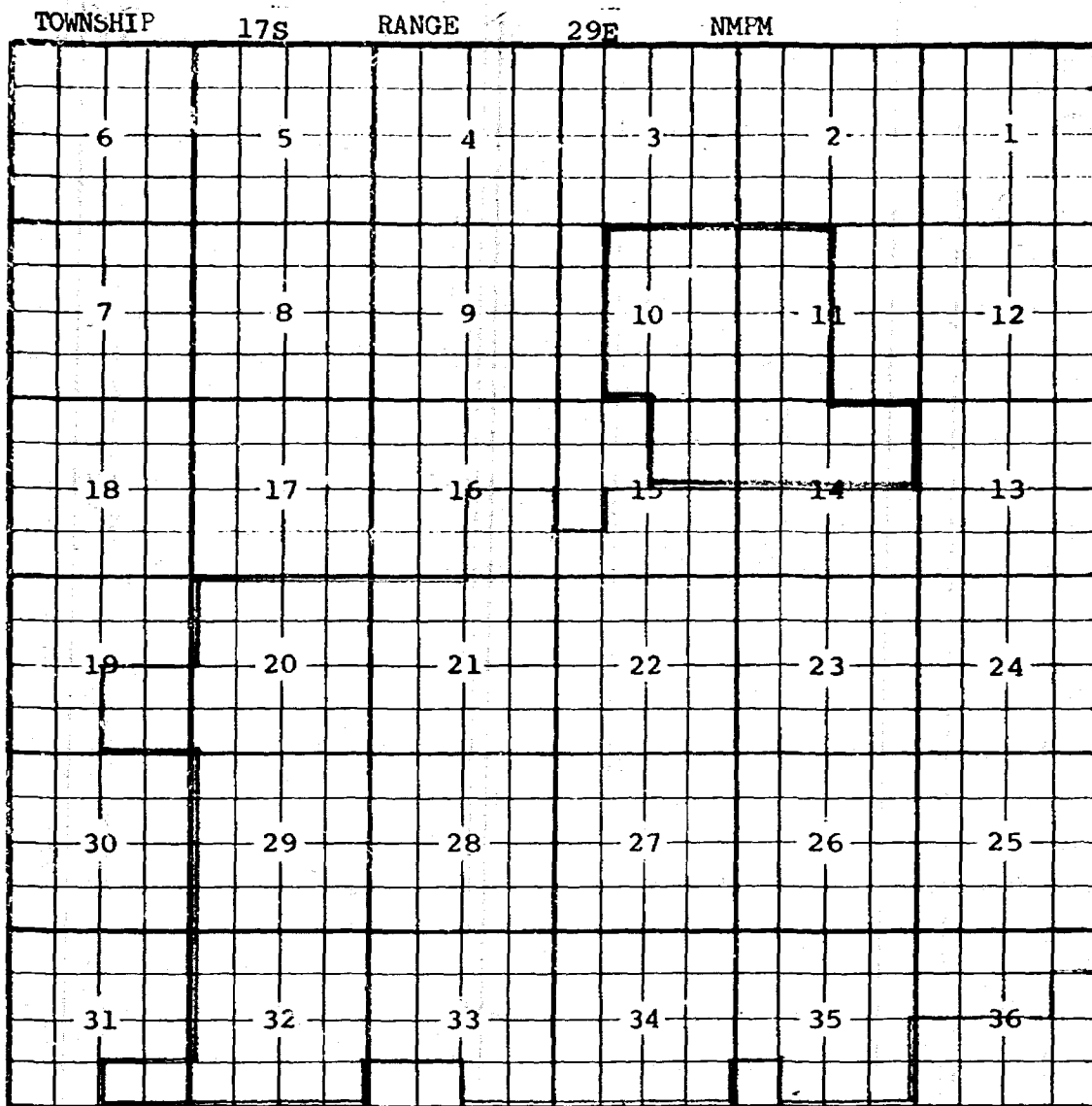
PAN AMERICAN PETROLEUM CORPORATION - South Mattix Unit #18 in Unit C of Section 22-24-37. Completed in Lower Paddock on July 9, 1965. Top of Perforations 5280'.

PAN AMERICAN PETROLEUM CORPORATION - South Mattix Unit #19 in Unit C of Section 22-24-37. Completed in Lower Paddock on November 18, 1965. Top of Perforations 5280'.

Pool boundary colored in red.

Proposed pool extension colored in green. SECTION 22: All

CASE 3597: (j) EXTENSION OF AN EXISTING OIL POOL
COUNTY Eddy POOL Grayburg Jackson (Q-G-SA)



Purpose: To take in acreage formerly included in the Square Lake Pool.

Pool boundary colored in red.

Proposed extensions colored in green.

Section 10: E/2 & E/2 W/2

Section 11: W/2

Section 14: N/2

Section 15: NE/4

CASE 3597: (k) EXTENSION OF AN EXISTING OIL POOL (Continued on next page)

COUNTY LEA POOL INBE-PENNSYLVANIAN

TOWNSHIP		10 South	RANGE		33 East	NMPM	
6	5	4	3	2	1		
7	8	9	10	11	12		
18	17	16	15	14	13		
19	20	21	22	23	24		
30	29	28	27	26	25		
31	32	33	34	35	36		

PURPOSE: As stated on preceding page, paragraph (k), Exhibit I.

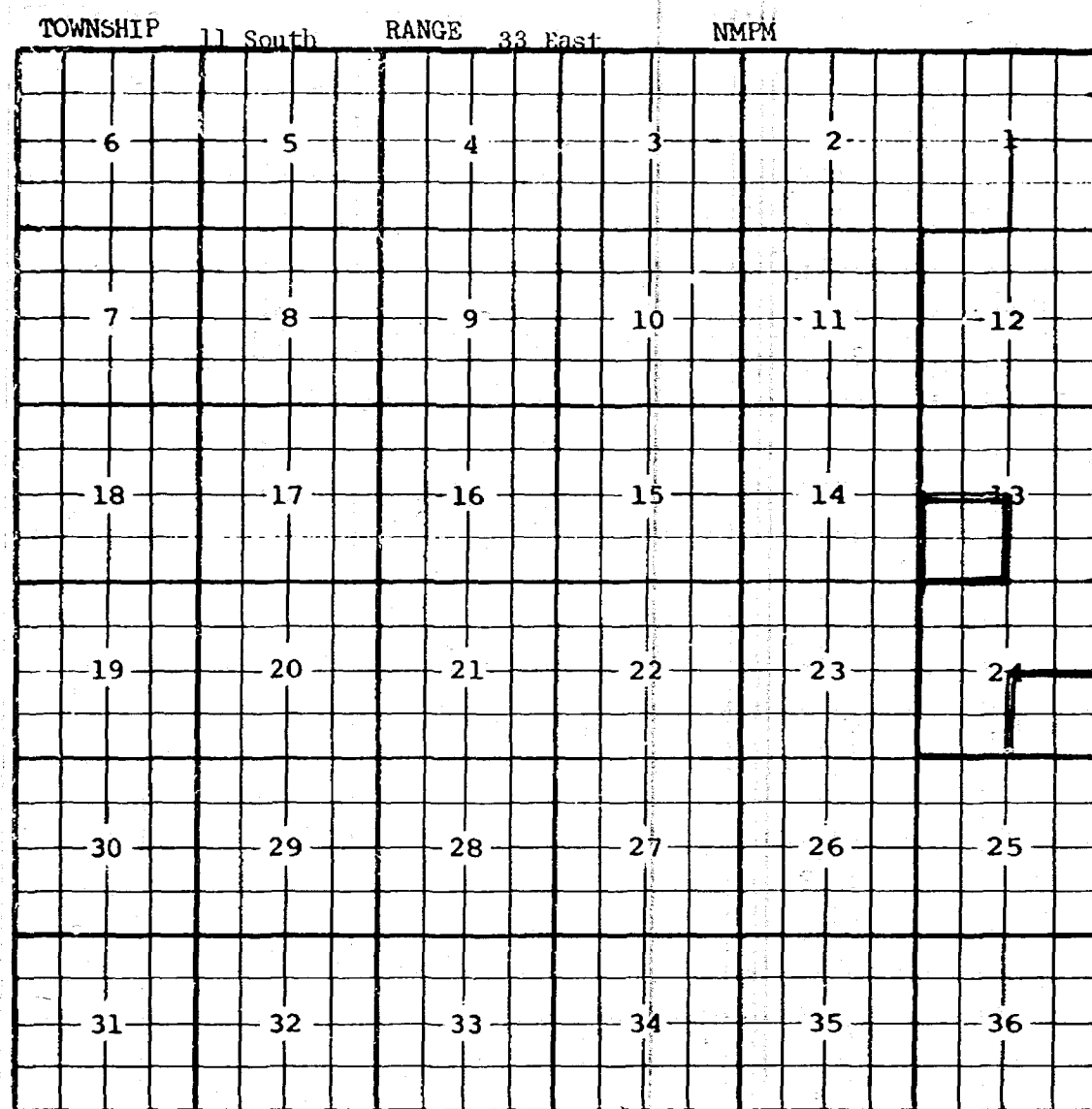
ADDITION--HUMBLE OIL & REFINING COMPANY - New Mexico CC State #2 in Unit
N of Section 27-10-33. Completed in Pennsylvanian on April 26,
1967. Top of Perforations 9671'.

Pool boundary colored in red.

Proposed pool extension colored in green. SECTION 27: SW/4

CASE 3597: (k) EXTENSION OF AN EXISTING OIL POOL (Continued on next page)

COUNTY LEA POOL INBE-PENNSYLVANIAN



PURPOSE: One completed oil well capable of producing.

SOUTHLAND ROYALTY COMPANY - Epperson #3 in Unit Q of Section 24-11-33.

Completed in Bough "C" on April 11, 1967. Top of Perforations 9828'.

ADDITION--GULF OIL CORPORATION - Mary Wilson #1 in Unit N of Section 13-

11-33. Completed in Bough C on May 24, 1967. Top of Perforations 9756'.

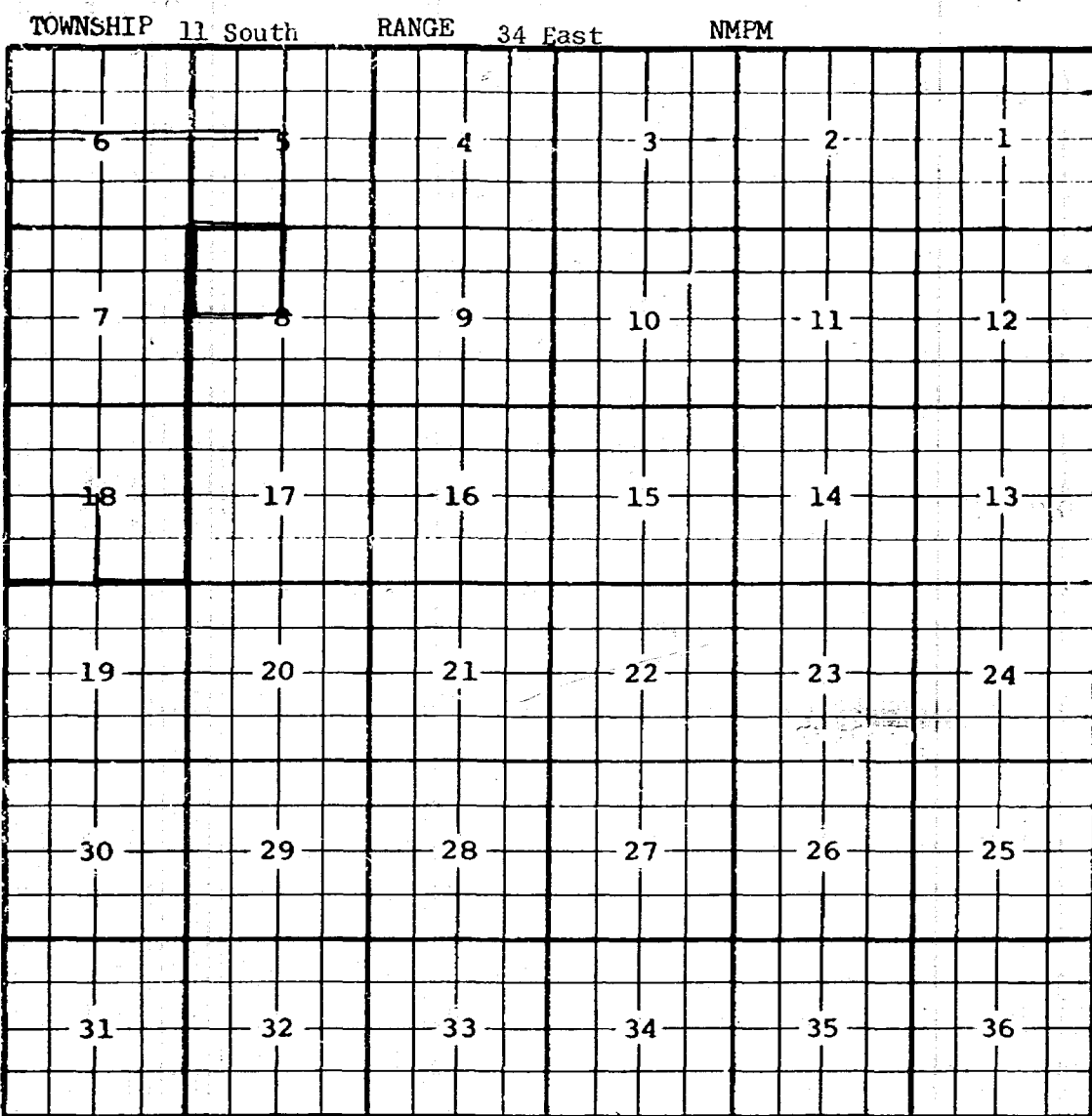
Pool boundary colored in red.

Proposed pool extensions colored in green. SECTION 24: SE/4

ADDITION---SECTION 13: SW/4

CASE 3597: (k) EXTENSION OF AN EXISTING OIL POOL (Continued)

COUNTY LEA POOL INBE-PENNSYLVANIAN



PURPOSE: As stated on preceding page, paragraph (k), Exhibit I.

ADDITION--SOUTHERN MINERALS CORPORATION - State D #1 in Unit E of Section 8-11-34. Completed in Bough C on May 19, 1967. Top of Perforations 9859'.

Pool boundary colored in red.

Proposed pool extension colored in green. SECTION 8: NW/4

CASE 3597: (1) EXTENSION OF AN EXISTING GAS POOL

COUNTY LEA

POOL LEA-PENNSYLVANIAN GAS

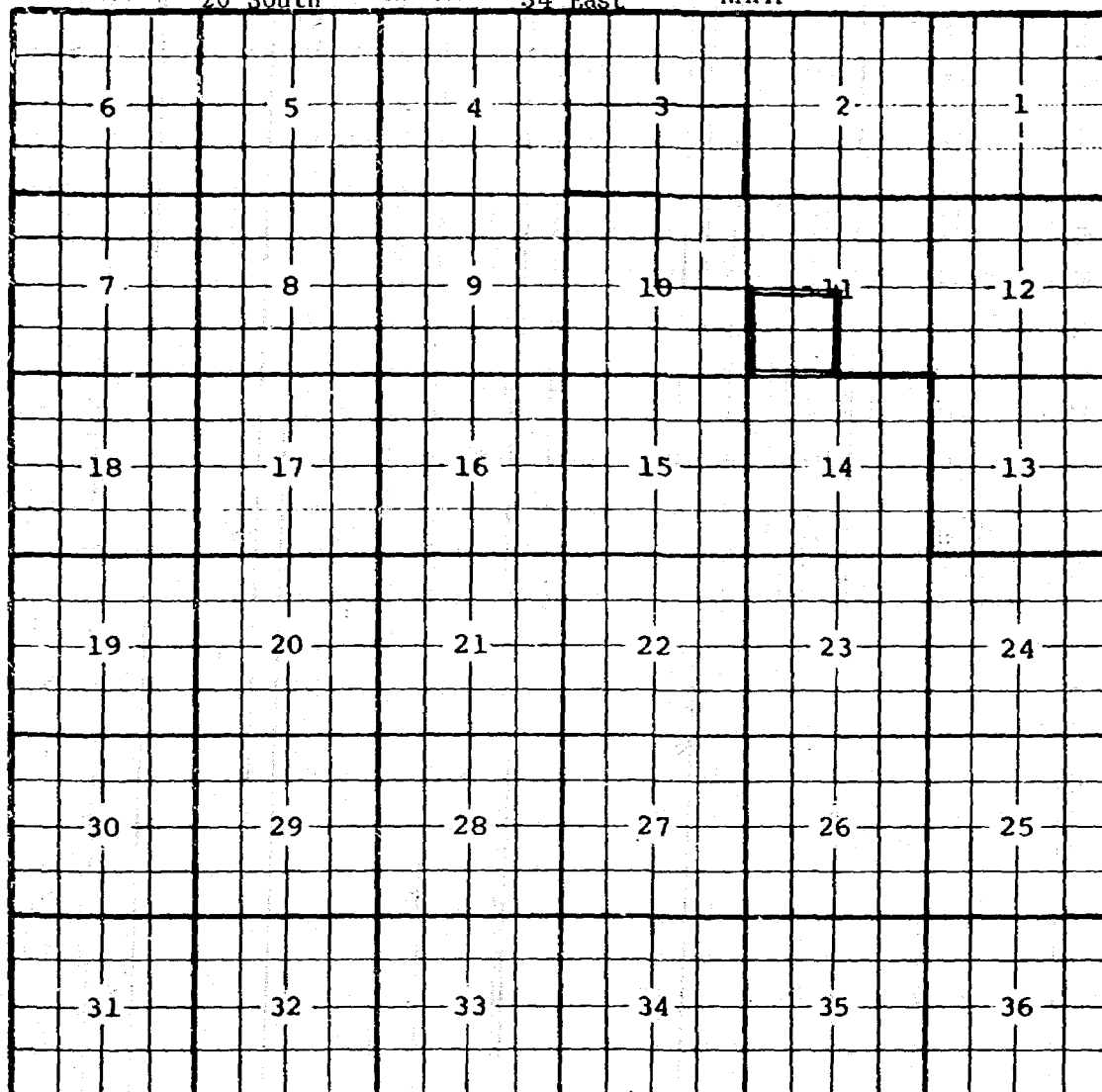
TOWNSHIP

20 South

RANGE

34 East

NMFM



PURPOSE: One completed gas well capable of producing.

U. S. SMELTING, REFINING & MINING COMPANY - Federal 11-20-34 #2 in Unit N of Section 11-20-34. Completed in Pennsylvanian on January 27, 1967.

Top of Perforations 12,902'.

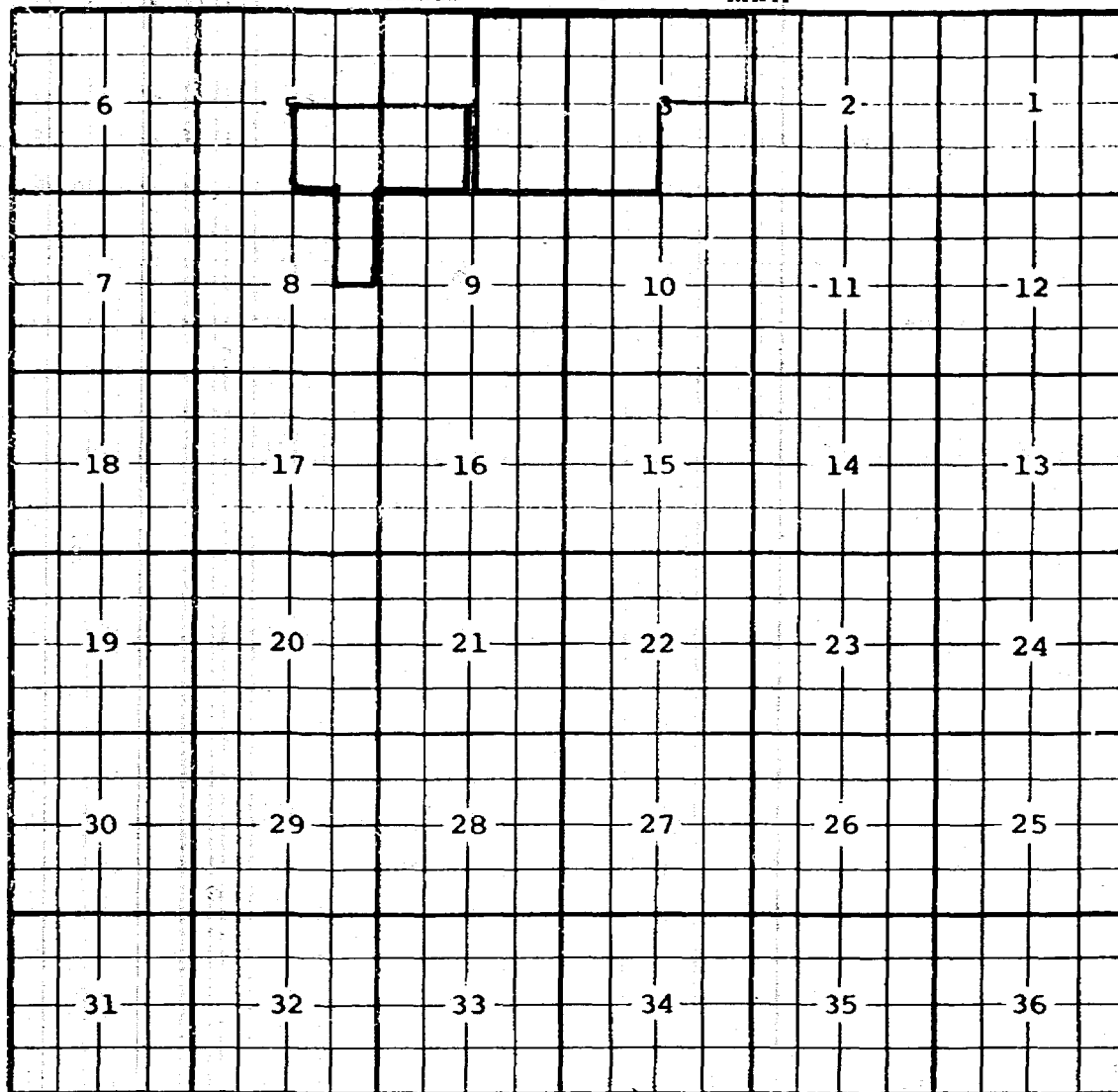
Pool boundary colored in red.

Proposed pool extension colored in green. SECTION 11: SW/4

CASE 3597: (m) EXTENSION OF AN EXISTING OIL POOL

COUNTY Eddy POOL Penasco Draw-San Andres-Yeso

TOWNSHIP 19S RANGE 25E NMPM



Purpose: One completed oil well capable of producing.

Yates Petroleum Corp., Thomas well No.1 in unit H of section 8-19-25. Completed in San Andres-Yeso, March 27, 1967, through perforations and open hole from 1320' to 2954'.

Pool boundary colored in red.

Proposed extension colored in green.

Section 4: SW/4

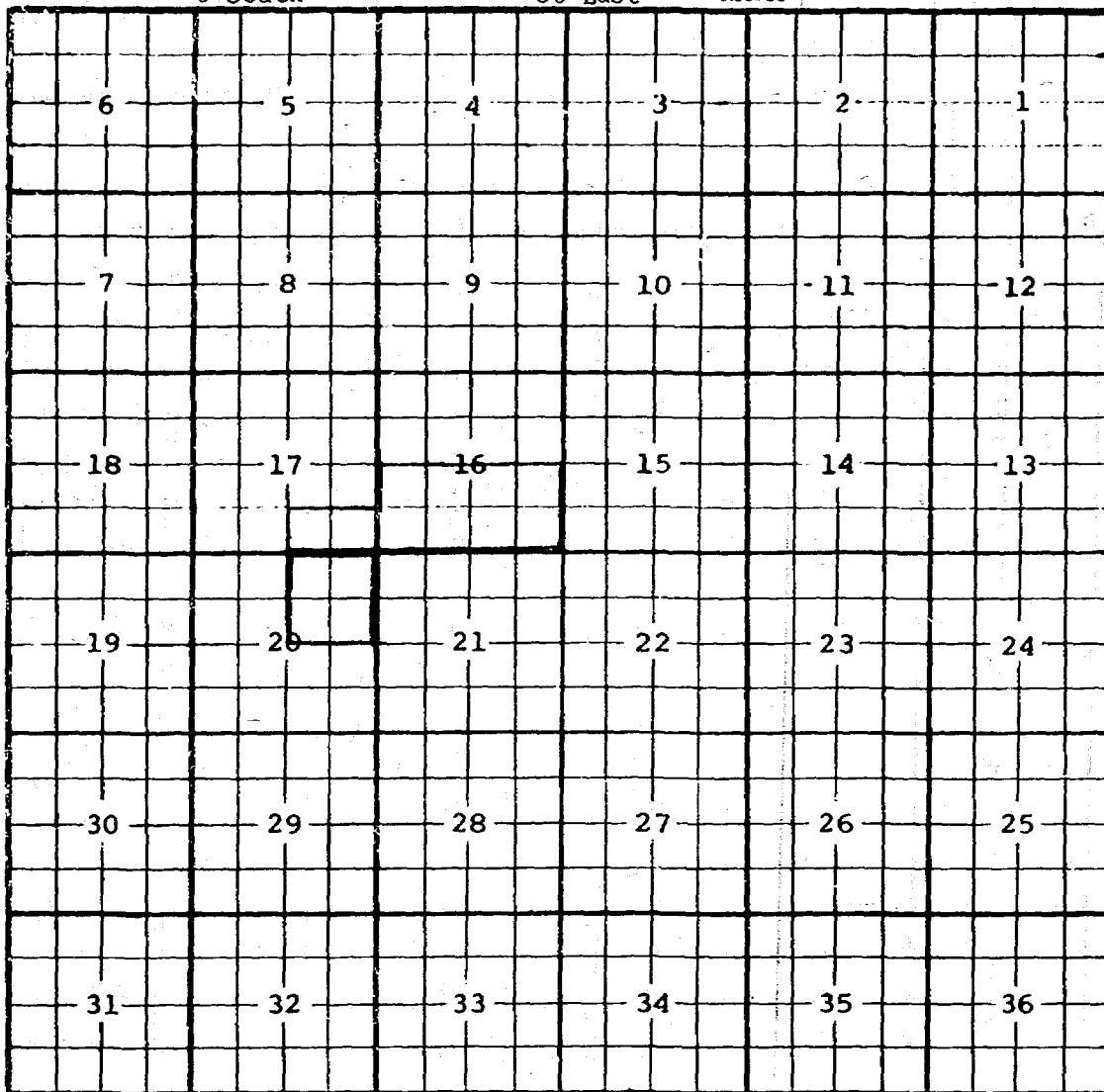
Section 5: SE/4

Section 8: E/2 NE/4

CASE 3597: (n) EXTENSION OF AN EXISTING OIL POOL

COUNTY ROOSEVELT POOL SOUTH PRAIRIE-SAN ANDRES

TOWNSHIP 8 South RANGE 36 East NMPM



PURPOSE: One completed oil well capable of producing.

LONE STAR PRODUCING COMPANY - New Mexico "C" Federal #1 in Unit A of Section 20-8-36. Completed in San Andres on April 13, 1967. Top of Perforations 4884'.

Pool boundary colored in red.

Proposed pool extension colored in green. SECTION 20: NE/4

CASE 3597: (o) EXTENSION OF AN EXISTING OIL POOL

COUNTY LEA POOL VADA-PENNSYLVANIAN

TOWNSHIP 9 South RANGE 34 East NMPM

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

PURPOSE: One completed oil well capable of producing.

MIDWEST OIL CORPORATION - Vada Lee Pruitt #2 in Unit M of Section 17-9-34.

Completed in Bough C on April 16, 1967. Top of Perforations 9786'.

ADDITION--MIDWEST OIL CORPORATION - Vada Lee Pruitt "A" #1 in Unit O of

Section 17-9-34. Completed in Pennsylvanian on May 31, 1967.

Top of Perforations 9774'.

Pool boundary colored in red.

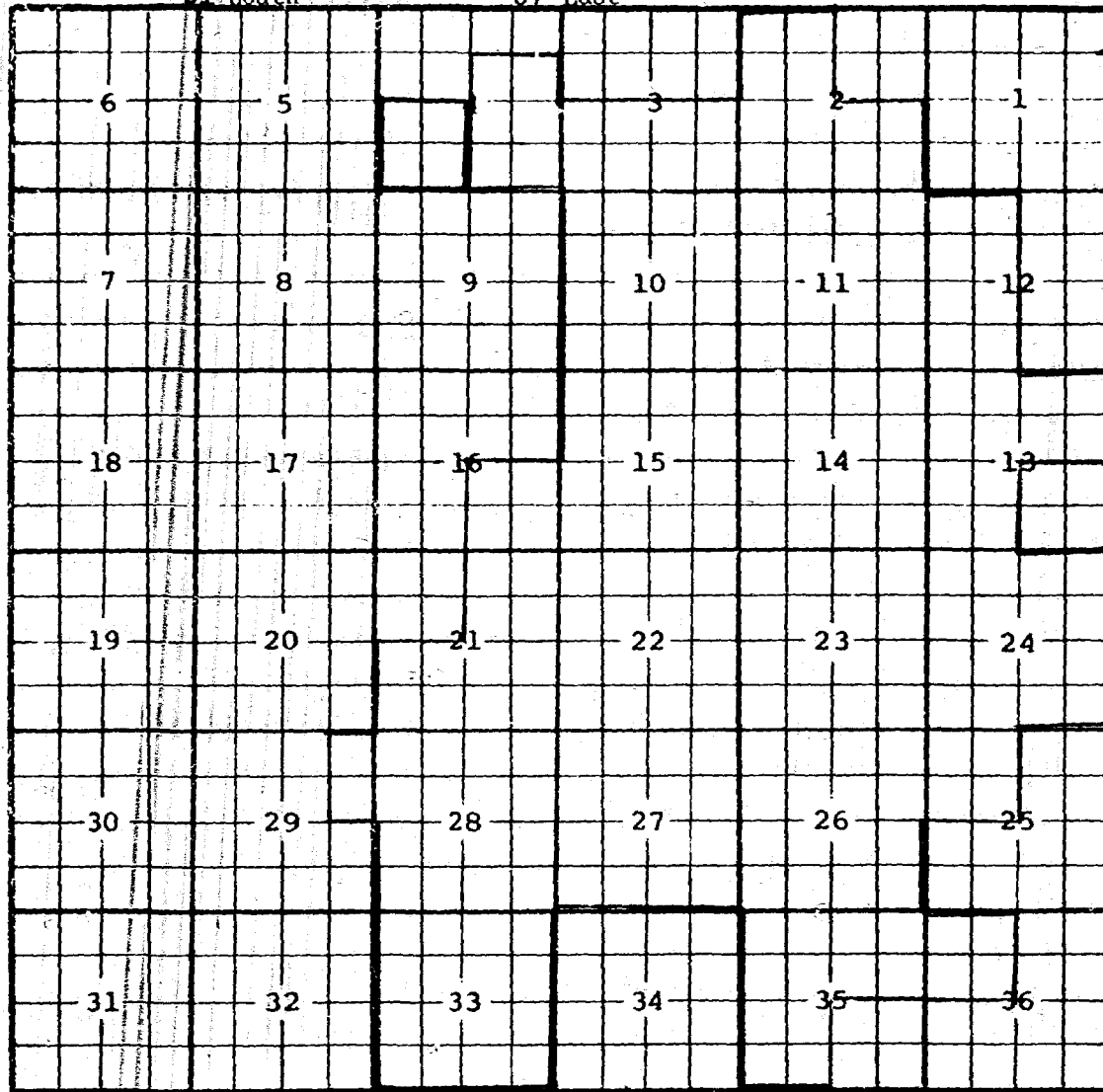
Proposed pool extensions colored in green. SECTION 17: SW/4

ADDITION---SECTION 17: SE/4

CASE 3597: (p) EXTENSION OF AN EXISTING OIL POOL

COUNTY LEA POOL WANTZ-ABO

TOWNSHIP 21 South RANGE 37 East NMFM



PURPOSE: One completed oil well capable of producing.

WESTERN OIL FIELDS, INC. - Gulf Hill #4 in Unit S of Section 4-21-37.

Completed in Abo on April 13, 1967. Top of Perforations 7020'.

Pool boundary colored in red.

Proposed pool extension colored in green. SECTION 4: SW/4