

CASE NO.

7634

APPLICATION,
TRANSCRIPTS,
SMALL EXHIBITS,
ETC.

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
STATE LAND OFFICE BLDG.
SANTA FE, NEW MEXICO
4 August 1982

EXAMINER HEARING

IN THE MATTER OF:

The hearing called by the Oil Conservation Division on its own motion for an order creating, abolishing, and extending certain pools in Chaves, Eddy, Lea, and Roosevelt Counties, New Mexico.

Case
7634

BEFORE: Richard L. Stamets

TRANSCRIPT OF HEARING

A P P E A R A N C E S

For the Oil Conservation Division:	Thomas C. H. Mills, Esq. for W. Perry Pearce, Esq. Legal-Counsel to the Division State Land Office Bldg. Santa Fe, New Mexico 87501
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For the Applicant:

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I N D E X

LARRY L. BROOKS

Direct Examination by Mr. Mills

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E X H I B I T S

Division Exhibit One, Document

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Division Exhibit Two, Document

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Division Exhibit Three, Document

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Division Exhibit Four, Document

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Division Exhibit Five, Document

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Division Exhibit Six, Document

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Division Exhibit Seven, Document

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2 MR. STAMETS: We'll call at this time
3 Case 7634, being the matter of the hearing called by the Oil
4 Conservation Division on its own motion for an order creating,
5 abolishing, and extending certain pools in Chaves, Eddy, Lea,
6 and Roosevelt Counties, New Mexico.

7 MR. MILLS: I'm Tom Mills, appearing on
8 behalf of the Oil Conservation Division.

9 I have one witness, Mr. Larry Brooks.

10
11 (Witness sworn.)
12

13 LARRY L. BROOKS
14 being called as a witness and being duly sworn upon his oath,
15 testified as follows, to-wit:
16

17 DIRECT EXAMINATION

18 BY MR. MILLS:

19 Q Mr. Brooks, would you please state your
20 name and position?

21 A My name is Larry L. Brooks and my position
22 is geologist with the Oil Conservation Division in Artesia,
23 New Mexico.

24 Q Are you prepared to make recommendations
25 to the Commission concerning the nomenclature of certain pools

1
2 in Chaves, Eddy, Lea, and Roosevelt Counties, New Mexico?

3 A I am.

4 Q Have you prepared your recommendations in
5 the form of an exhibit, or exhibits?

6 A I have.

7 Q Will you please refer to those exhibits
8 and to the docket which has been prepared and distributed at
9 this hearing and point out any substantial difference between
10 the two?

11 A There are no substantial differences be-
12 tween what has been docketed and advertised.

13 Q How many exhibits do you have, Mr. Brooks?

14 A I have -- I have six exhibits, numbered
15 Two through Seven, pertaining to paragraph (d) of the docket.

16 Q And those are the exhibits that you left
17 here at counsel table?

18 A That is right.

19 MR. STAMETS: And in addition I presume
20 you have an Exhibit Number One, which is the standard exhibit
21 in this case?

22 A Yes, I have.

23 Q These exhibits have been marked for
24 identification purposes?

25 A Yes, they have.

1
2 Q Do you have anything further to add to
3 your testimony?

4 A Yes, I do.

5 Q Please proceed.

6 A Okay. At this time would you please re-
7 fer to the Exhibit Two through Seven, pertaining to the Foor
8 Ranch Pre-Permian Gas Pool?

9 Exhibit Two shows the spatial relationship
10 of the Pre-Permian productive wells to the truncated edge of
11 the Mississippian and Siluro-Devonian strata; also, the in-
12 trusion of a tertiary dike. Labeled is the status of said
13 wells and producing formation.

14 Referring to Exhibit Three, this exhibit
15 reflects regional productive horizons, future Pre-Permian
16 tests, and Pre-Permian tests that were economically non-pro-
17 ductive and plugged and abandoned.

18 Also, the location of wells of interest
19 within Section 1, 12, 13, of Township 9 South, Range 26 East;
20 also, Section 7, 9 South, 27 East.

21 Exhibit Four shows structural contours
22 on the San Andres and the series of tertiary intrusion as
23 depicted by B. C. Kelly in The Geology of the Pecos Country,
24 Memoir 24, New Mexico Bureau of Mines.

25 Specifically, the truncation of the Y-O

flexure located -- located in the west half of Township 9 South, 26 East.

Exhibits Five and Six are in the form of geologic cross sections.

Exhibit Five is a basinward cross section showing stratigraphic thickening toward the south and east.

Exhibit Six, which I've prepared, shows -- Exhibit Six shows a series of geologic structure sections determined from compensated neutron formation density logs of said wells.

I would call attention to two dip reversals on crosssection one, between the Yates Whitworth "RU" State No. 1 and the Fred Pool Eastland State No. 1, and the cross section two, the Yates Whitworth State "RU" No. 1 and Plains Radio Broadcasting No. 1.

Normal dip is south and east; however, correlation indicates north and west dip, which would indicate flexure, a possible fracture of the reservoir.

The relationship of these dip reversals and the tertiary intrusive is shown in a previous sketch attached to Exhibit Four, which I have.

Flexures or buckles exhibited in Exhibits Two, Three, and Four, concordant with relationships to the intrusive, depicts subsurface wash bar topography or isoclinal

1
2 type folding, also indicating possible fracture of crystalline
3 basement rocks, near basement rocks.

4 Exhibit Seven shows back pressure comple-
5 tion information and chromatographic gas analysis. I have given
6 you a fact sheet showing all this information, and this shows
7 potential flow rates, gas analysis average, 24-hour shut-in
8 tubing-casing pressure averages.

9 It is my suggestion that this be -- this
10 pool be created by reason of hydrocarbon production, specifi-
11 cally gas, within a region of economically non-productive
12 wells, that production is localized; also, that as Pre-Permian
13 sections thicken towards the south and east and productive
14 horizons develop that are correlable and economically pro-
15 ducible, new pools be created and named according to the
16 formation that they produce from and include only that forma-
17 tion within the vertical limits.

18 MR. STAMETS: Are there any questions of
19 the witness?

20 MR. MILLS: Mr. Stamets, I move that Ex-
21 hibits Two through Seven be admitted in evidence.

22 MR. STAMETS: These exhibits will be ad-
23 mitted.

24 Mr. Brooks, I believe you indicated Exhibit
25 Number Two had the producing -- I'm sorry, I see now the

1
2 letters indicating the producing interval are written in the
3 well dots. I did not see those at the early time.

4 All of the exhibits, One through Seven
5 are admitted, and any other questions of the witness? He may
6 be excused.

7 If there is nothing further, the case will
8 be taken under advisement.

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10 (Hearing concluded.)
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C E R T I F I C A T E

I, SALLY W. BOYD, C.S.R., DO HEREBY CERTIFY that the foregoing Transcript of Hearing Before the Oil Conservation Division was reported by me; that the said transcript is a full, true, and correct record of the hearing, prepared by me to the best of my ability.

Sally W. Boyd CSR

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 7634 heard by me on 8-4-1982
Richard L. Plam, Examiner
 Oil Conservation Division

SALL. BOYD, C.S.R.

Box 1014
 Santa Fe, New Mexico 87501
 Phone (505) 433-7409

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

CASE NO. 7634
Order No. R-7048-A

THE APPLICATION OF THE OIL CONSERVATION
DIVISION UPON ITS OWN MOTION FOR AN
ORDER CREATING, ASSIGNING A DISCOVERY
ALLOWABLE, ABOLISHING, AND EXTENDING
CERTAIN POOLS IN CHAVES, EDDY, LEA,
AND ROOSEVELT COUNTIES, NEW MEXICO.

NUNC PRO TUNC ORDER

BY THE DIVISION:

It appearing to the Division that Order No. R-7048, dated August 9, 1982, does not correctly state the intended order of the Division,

IT IS THEREFORE ORDERED:

(1) That Finding No. (9) on page 3 of Order No. R-7048, is hereby amended to read in its entirety as follows:

"(9) That there is need for the creation of a new pool in Lea County, New Mexico, for the production of oil from the Abo formation, said pool to bear the designation of Northwest Townsend-Abo Pool. Said Northwest Townsend-Abo Pool was discovered by the Charles B. Gillespie, Jr. Exxon Townsend Well No. 1 located in Unit B of Section 9, Township 16 South, Range 35 East, NMPM. It was completed in the Abo formation on September 25, 1981. The top of the perforations is at 8,716 feet."

(2) That paragraph no. (h) on page 5 of Order No. R-7048 is hereby amended to read in its entirety as follows:

"(h) That a new pool in Lea County, New Mexico, classified as an oil pool for Abo production is hereby created and designated as the Northwest Townsend-Abo Pool, consisting of the following described area:

TOWNSHIP 16 SOUTH, RANGE 35 EAST, NMPM
Section 9: NE/4"

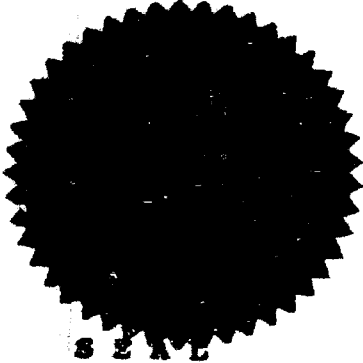
(3) That the corrections set forth in this order be entered nunc pro tunc as of August 9, 1982.

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Case No. 7634

Order No. R-7048-A

DONE at Santa Fe, New Mexico, on this 27th day of
September, 1962.



STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

Joe D. Raney
JOE D. RANEY
Director

fd/

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
DIVISION FOR THE PURPOSE OF
CONSIDERING:

CASE NO. 7634
Order No. R-7048

THE APPLICATION OF THE OIL CONSERVATION
DIVISION UPON ITS OWN MOTION FOR AN
ORDER CREATING, ASSIGNING A DISCOVERY
ALLOWABLE, ABOLISHING, AND EXTENDING
CERTAIN POOLS IN CHAVES, EDDY, LEA,
AND ROOSEVELT COUNTIES, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on August 4, 1982,
at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this 9th day of August, 1982, the Division
Director, having considered the testimony, the record, and the
recommendations of the Examiner, and being fully advised in the
premises,

FINDS:

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

(2) That there is need for the creation of a new pool in
Eddy County, New Mexico, for the production of gas from the
Atoka formation, said pool to bear the designation of West
Indian Flat-Atoka Gas Pool. Said West Indian Flat-Atoka Gas
Pool was discovered by the Perry R. Baes Big Eddy Unit Well
No. 79-Y located in Unit J of Section 21, Township 21 South,
Range 28 East, NMPH. It was completed in the Atoka formation
on April 8, 1982. The top of the perforations is at 11,182
feet.

(3) That there is need for the creation of a new pool in
Roosevelt County, New Mexico, for the production of oil from the
San Andres formation, said pool to bear the designation of South
Bluitt-San Andres Pool. Said South Bluitt-San Andres Pool was

discovered by the Ike Lovelady, Inc. Lignum Well No. 1 located in Unit A of Section 33, Township 8 South, Range 37 East, NMPM. It was completed in the San Andres formation on March 19, 1982. The top of the perforations is at 4,808 feet.

(4) That there is need for the creation of a new pool in Eddy County, New Mexico, for the production of gas from the Canyon formation, said pool to bear the designation of Boyd Permo-Pennsylvanian Gas Pool. Said Boyd Permo-Pennsylvanian Gas Pool was discovered by the Yates Petroleum Company Rio Penasco MF Federal Well No. 1 located in Unit F of Section 11, Township 19 South, Range 25 East, NMPM. It was completed in the Canyon formation on August 26, 1981. The top of the perforations is at 7,592 feet.

(5) That there is need for the creation of a new pool in Chaves County, New Mexico, for the production of gas from the Pre Permian formations, said pool to bear the designation of Four Ranch-Pre Permian Gas Pool. Said Four Ranch-Pre Permian Gas Pool was discovered by the Plains Radio Broadcasting Company Camel Well No. 1 located in Unit F of Section 7, Township 9 South, Range 27 East, NMPM. It was completed in the Pennsylvanian formation on May 9, 1981. The top of the perforations is at 6,154 feet.

(6) That there is need for the creation of a new pool in Lea County, New Mexico, for the production of gas from the Seven Rivers formation, said pool to bear the designation of House Yates-Seven Rivers Gas Pool. Said House Yates-Seven Rivers Gas Pool was discovered by the MGF Oil Corporation J. Wright Well No. 1 located in Unit D of Section 5, Township 20 South, Range 39 East, NMPM. It was completed in the Seven Rivers formation on March 30, 1982. The top of the perforations is at 3,004 feet.

(7) That there is need for the creation of a new pool in Lea County, New Mexico, for the production of oil from the Wolfcamp formation, said pool to bear the designation of Pollock-Wolfcamp Pool. Further, that there is need for the assignment of a discovery allowable of 46,910 barrels to the discovery well, the Reading and Bates Company Dickinson Cattle Company 33 Well No. 1 located in Unit N of Section 33, Township 14 South, Range 38 East, NMPM. It was completed in the Wolfcamp formation on April 29, 1982. The top of the perforations is at 9,404 feet.

(8) That there is need for the creation of a new pool in Lea County, New Mexico, for the production of gas from the

Wolfcamp formation, said pool to bear the designation of West Red Hills-Wolfcamp Gas Pool. Said West Red Hills-Wolfcamp Gas Pool was discovered by the BTA Oil Producers Mesa 8105 JV-P Well No. 1 located in Unit I of Section 1, Township 26 South, Range 32 East, NMPM. It was completed in the Wolfcamp formation on May 5, 1982. The top of the perforations is at 13,367 feet.

(9) That there is need for the creation of a new pool in Lea County, New Mexico, for the production of oil from the Abo formation, said pool to bear the designation of Townsend-Abo Pool. Said Townsend-Abo Pool was discovered by the Charles B. Gillespie, Jr. Exxon Townsend Well No. 1 located in Unit 8 of Section 9, Township 16 South, Range 35 East, NMPM. It was completed in the Abo formation on September 25, 1981. The top of the perforations is at 8,716 feet.

(10) That there is need for the abolishment of the Tanneyhill-Cisco Pool in Roosevelt County, New Mexico, the productive acreage to be placed in the South Peterson-Pennsylvanian Associated Pool.

(11) That there is need for certain extensions to the Carson-Morrow Gas Pool, the Pecos Slope-Abo Gas Pool, the Tomhawk-San Andres Pool, and the Twin Lakes-San Andres Associated Pool, all in Chaves County, New Mexico, and the Crow Flats-Morrow Gas Pool, the Empire-Pennsylvanian Gas Pool, the High Lonesome-Queen Pool, the North Loving-Morrow Gas Pool, the Square Lake Grayburg-San Andres Pool, the Turkey Track-Morrow Gas Pool, and the Willow Lakes-Bone Spring Pool, all in Eddy County, New Mexico, and the West Nadine-Blinebry Pool and the West Sawyer-San Andres Pool, both in Lea County, New Mexico, and the Bluit-San Andres Associated Pool and the South Peterson-Pennsylvanian Associated Pool, both in Roosevelt County, New Mexico.

IT IS THEREFORE ORDERED:

(a) That a new pool in Eddy County, New Mexico, classified as a gas pool for Atoka production is hereby created and designated as the West Indian Flat -Atoka Gas Pool, consisting of the following described area:

TOWNSHIP 21 SOUTH, RANGE 28 EAST, NMPM
Section 21: E/2

(b) That a new pool in Roosevelt County, New Mexico,

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Order No. R-7048

classified as an oil pool for San Andres production is hereby created and designated as the South Bluit-San Andres Pool, consisting of the following described area:

TOWNSHIP 8 SOUTH, RANGE 37 EAST, NMPM
Section 35: NE/4

(c) That a new pool in Eddy County, New Mexico, classified as a gas pool for Permo Pennsylvanian production is hereby created and designated as the Boyd Permo-Pennsylvanian Gas Pool, consisting of the following described area:

TOWNSHIP 19 SOUTH, RANGE 25 EAST, NMPM
Section 2: S/2
Section 3: E/2
Section 11: N/2

(d) That a new pool in Chaves County, New Mexico, classified as a gas pool for Pre Permian production is hereby created and designated as the Foor Ranch-Pre Permian Gas Pool, consisting of the following described area:

TOWNSHIP 9 SOUTH, RANGE 26 EAST, NMPM
Section 1: E/2
Section 12: E/2
Section 13: All

TOWNSHIP 9 SOUTH, RANGE 27 EAST, NMPM
Section 7: W/2
Section 18: W/2

(e) That a new pool in Lea County, New Mexico, classified as a gas pool for Yates and Seven Rivers production is hereby created and designated as the House Yates-Seven Rivers Pool, consisting of the following described area:

TOWNSHIP 19 SOUTH, RANGE 39 EAST, NMPM
Section 31: SE/4
Section 32: SW/4

TOWNSHIP 20 SOUTH, RANGE 39 EAST, NMPM
Section 3: NW/4

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

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TOWNSHIP 14 SOUTH, RANGE 38 EAST, NMPM
Section 33: SW/4

Further, that the discovery well for said Pollock-Wolfcamp Pool, being the Reading and Bates Company Dickinson Cattle Company 33 Well No. 1 located in Unit N of Section 33, Township 14 South, Range 38 East, NMPM, is hereby assigned a bonus discovery allowable in the amount of 46,910 barrels to be produced over a two-year period.

(g) That a new pool in Lea County, New Mexico, classified as a gas pool for Wolfcamp production is hereby created and designated as the West Red Hills-Wolfcamp Gas Pool, consisting of the following described area:

TOWNSHIP 26 SOUTH, RANGE 32 EAST, NMPM
Section 1: E/2

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

TOWNSHIP 16 SOUTH, RANGE 35 EAST, NMPM
Section 9: NE/4

(i) That the East Tannehill-Cisco Pool in Roosevelt County, New Mexico, consisting of the following described area:

TOWNSHIP 6 SOUTH, RANGE 34 EAST, NMPM
Section 8: SE/4

is hereby abolished.

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

TOWNSHIP 8 SOUTH, RANGE 37 EAST, NMPM
Section 23: E/2

(k) That the Carson-Morrow Gas Pool in Chaves County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 9 SOUTH, RANGE 31 EAST, NMPM
Section 3: S/2

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

TOWNSHIP 16 SOUTH, RANGE 28 EAST, NMPM
Section 31: W/2

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

TOWNSHIP 18 SOUTH, RANGE 28 EAST, NMPM
Section 3: S/2

(n) That the High Lonesome-Queen Pool in Eddy County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 16 SOUTH, RANGE 29 EAST, NMPM
Section 19: SE/4 NE/4

(o) That the North Loving-Morrow Gas Pool in Eddy County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 23 SOUTH, RANGE 28 EAST, NMPM
Section 7: N/2
Section 18: All
Section 19: W/2
Section 30: W/2

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

TOWNSHIP 20 SOUTH, RANGE 38 EAST, NMPM
Section 5: NW/4
Section 8: SW/4

(q) That the Pecos Slope-Abo Gas Pool in Chaves County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 4 SOUTH, RANGE 24 EAST, NMPM
Section 26: W/2

TOWNSHIP 5 SOUTH, RANGE 24 EAST, NMPM
Section 3: E/2

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TOWNSHIP 6 SOUTH, RANGE 24 EAST, NMPM

Section 15: All
Section 16: All
Section 17: All
Section 18: E/2

TOWNSHIP 7 SOUTH, RANGE 26 EAST, NMPM

Section 27: All
Section 33: All
Section 34: All

TOWNSHIP 8 SOUTH, RANGE 25 EAST, NMPM

Section 13: S/2

TOWNSHIP 8 SOUTH, RANGE 26 EAST, NMPM

Section 3: All
Section 4: All
Section 5: All
Section 6: E/2

(c) That the South Peterson-Pennsylvanian Associated Pool in Roosevelt County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 6 SOUTH, RANGE 34 EAST, NMPM

Section 7: S/2
Section 8: S/2

(s) That the West Sawyer-San Andres Pool in Lea County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 9 SOUTH, RANGE 37 EAST, NMPM

Section 32: SW/4

(t) That the Square Lake 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 30 EAST, NMPM

Section 11: S/2

(u) That the Tomahawk-San Andres Pool in Chaves County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 7 SOUTH, RANGE 31 EAST, NMPM

Section 36: SE/4

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TOWNSHIP 8 SOUTH, RANGE 31 EAST, NMPM
Section 1: N/2

(v) That the Turkey Track-Morrow Gas Pool in Eddy County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 19 SOUTH, RANGE 29 EAST, NMPM
Section 3: N/2

(w) That the Twin Lakes-San Andres Associated Pool in Chaves County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 9 SOUTH, RANGE 28 EAST, NMPM
Section 12: SE/4

TOWNSHIP 9 SOUTH, RANGE 29 EAST, NMPM
Section 18: N/2

(x) That the Willow Lakes-Bone Spring Pool in Eddy County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 24 SOUTH, RANGE 28 EAST, NMPM
Section 32: N/2 N/2
Section 33: N/2 NW/4

IT IS FURTHER ORDERED:

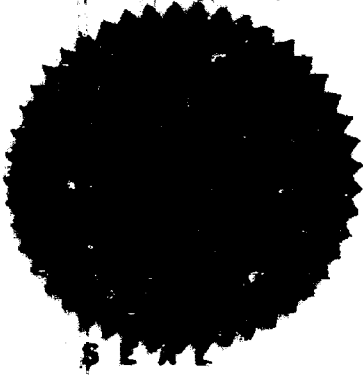
(1) That pursuant to Section 70-2-18, NMSA 1978, contained in Chapter 271, Laws of 1969, any well which by virtue of any of the above pool extensions, is subject to pool rules providing for spacing or proration units larger than the one which is presently dedicated thereto, shall have 60 days from the effective date of this order in which to file new Forms C-102 dedicating a standard unit for the pool to said well, or to obtain a non-standard unit approved by the Division. Pending such compliance, the well shall receive a maximum allowable in the same proportion to a standard allowable for the pool that the acreage dedicated to the well bears to a standard unit for the pool. Failure to file Form C-102 dedicating a standard unit to the well or to obtain a non-standard unit approved by the Division within said 60-day period shall subject the well to cancellation of allowable.

(2) That the effective date of this order and all creations, abolishments, assignments of discovery allowable, and extensions included herein shall be September 1, 1982.

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DONE at Santa Fe, New Mexico, on the day and year herein-
above designated.



STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

Joe D. Ramey
JOE D. RAMEY
Director

fd/

NEW POOLS

It is recommended that a new GAS pool be created and designated as the WEST INDIAN FLAT-ATOKA GAS Pool.

Vertical limits to be the ATOKA formation and the horizontal limits should be as follows: As shown in Paragraph (b) Exhibit I

Discovery well was Perry R. Bass, Big Eddy Unit #79Y located in Unit J Section 21 Township 21 Range 28 and was completed on April 8, 1982. Top of perforations is at 11,182 feet.

It is recommended that a new OIL pool be created and designated as the SOUTH BLUITT-SAN ANDRES Pool.

Vertical limits to be the SAN ANDRES formation and the horizontal limits should be as follows: As shown in Paragraph (b) Exhibit I

Discovery well was Ike Lovelady, Inc. Lignum #1 located in Unit A Section 35 Township 8 Range 37 and was completed on March 19, 1982. Top of perforations is at 4808 feet.

It is recommended that a new GAS pool be created and designated as the BOYD-PERMO PENN GAS Pool.

Vertical limits to be the Cisco, Canyon & Basal WC formation and the horizontal limits should be as follows: As shown in Paragraph (c) exhibit I

Discovery well was Yates Pet. Co. Rio Penasco MF Fed #1 located in Unit F Section 11 Township 19 Range 25 and was completed on Aug. 26, 1981. Top of perforations is at 7592 feet.

NEW POOLS

It is recommended that a new GAS pool be created and designated as the Foor Ranch-Pre Permian Gas Pool.

Vertical limits to be the Penn to top of Granite formation and the horizontal limits should be as follows: as shown in Paragraph (d) exhibit I

Discovery well was Plains Radio Broadcasting Co. Camel #1 located in Unit F Section 7 Township 9 Range 27 and was completed on May 9, 1981. Top of perforations is at 6154 feet.

It is recommended that a new GAS pool be created and designated as the HOUSE YATES-SEVEN RIVERS GAS Pool.

Vertical limits to be the YATES and SEVEN RIVERS formation and the horizontal limits should be as follows: as shown in Paragraph (e) Exhibit I

Discovery well was MGF Oil Corp. J. Wright #1 located in Unit D Section 5 Township 20 Range 39 and was completed on March 30, 1982. Top of perforations is at 3004 feet.

It is recommended that a new OIL pool be created and designated as the POLLOCK-WOLFCAMP Pool.

Vertical limits to be the WOLFCAMP formation and the horizontal limits should be as follows: As shown in Paragraph (f) Exhibit I

Discovery well was Reading & Bates Co. Dickinson Cattle Co. 33 #1 located in Unit N Section 33 Township 14 Range 38 and was completed on April 29, 1982. Top of perforations is at 9404 feet.

NEW POOLS

It is recommended that a new GAS pool be created and designated as the WEST RED HILLS-WOLFCAMP GAS Pool.

Vertical limits to be the WOLFCAMP formation and the horizontal limits should be as follows: As shown in Paragraph (g) Exhibit I

Discovery well was BTA Oil Producers Mesa 8105 JV-P #1 located in Unit I Section 1 Township 26 Range 32 and was completed on May 5, 1982. Top of perforations is at 13,367 feet.

It is recommended that a new OIL pool be created and designated as the TOWNSEND-ABO Pool.

Vertical limits to be the ABO formation and the horizontal limits should be as follows: As shown in Paragraph (h) Exhibit I

Discovery well was Charles B. Gillespie, Jr. Exxon Townsend #1 located in Unit B Section 9 Township 16 Range 35 and was completed on September 25, 1981. Top of perforations is at 8716 feet.

It is recommended that a new _____ pool be created and designated as the _____ Pool.

Vertical limits to be the _____ formation and the horizontal limits should be as follows: _____

Discovery well was _____ located in Unit _____ Section _____ Township _____ Range _____ and was completed on _____. Top of perforations is at _____ feet.

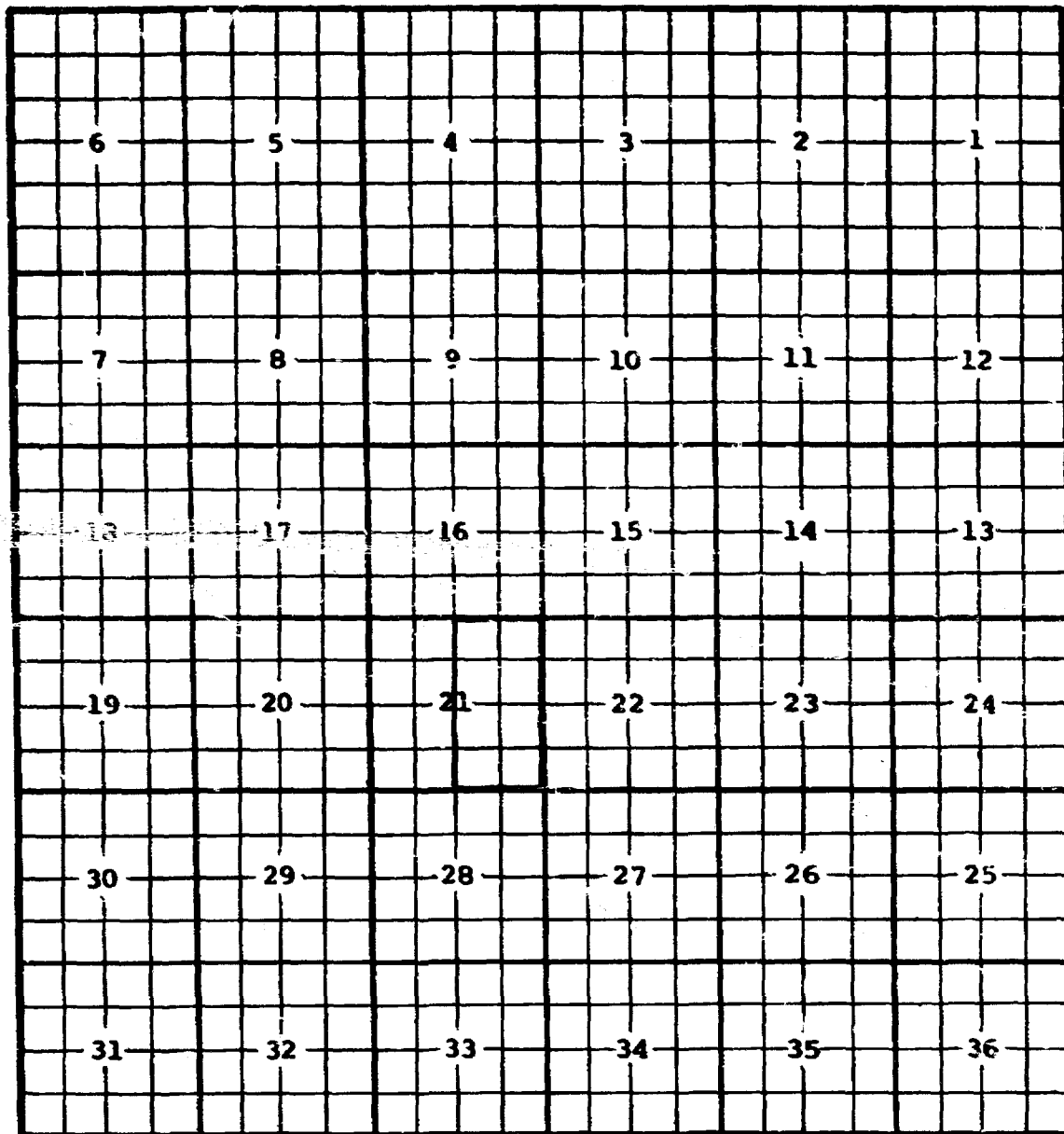
COUNTY Eddy

POOL West Indian Flat-Atoka Gas

TOWNSHIP 21S

RANGE 28E

NMPN



Purpose: One completed gas well capable of producing.

Discovery Well: Perry R. Bass, Big Eddy Unit #79-Y J-21-21-28

Comp. 4-8-82 thru Atoka perfs 11, 182-11,234.

Proposed pool boundary outlined in blue.

Section 21: E/2

CASE NO. 7634 (b) CREATION OF A NEW OIL POOL

COUNTY	ROOSEVELT		POOL	SOUTH BLUITT-SAN ANDRES		
TOWNSHIP	8 South		RANGE	37 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.

DISCOVERY WELL: Ike Lovelady, Inc. Lignum Well #1-A in Sec 35, T8S, R37E, completed March 19, 1982, in the San Andres formation. Top perf 4808 feet.

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

CASE NO. 7634 (c) CREATION OF A NEW GAS POOL

COUNTY Eddy

POOL

Boyd-Permo Penn Gas

TOWNSHIP

19S

RANGE

25E

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: Two completed gas wells capable of producing.

Discovery Well: Yates Pet. Co., Rio Penasco MF Federal #1-F-11-19-25.

Comp. 8-26-81 thru Canyon perfs 7592-7656.

Proposed pool boundary outlined in blue.

Section 2: S/2

Section 3: E/2

Section 11: N/2

CASE NO. 7634 (d) CREATION OF A NEW GAS POOL

COUNTY Chaves

POOL

Foor Ranch-Pre Permian Gas

TOWNSHIP

95

RANGE

26E

NIJ-FBI

Exhibit I

A 6x6 grid with numbers 1 through 36. The numbers are arranged in a boustrophedon pattern, starting from the top-left (1) and ending at the bottom-right (36). A path of 12 squares is highlighted with a thick black border, starting at square 12 and ending at square 13. The path consists of the following squares: 12, 11, 10, 9, 8, 7, 6, 5, 4, 3, 2, 1.

Purpose: 5 completed gas wells capable of producing.

Discovery Well: See Exhibit II

Proposed pool boundary outlined in blue.

Section 1: E/2

Section 12: E/2

Section 13: All

COUNTY	Chaves		POOL	Foor Ranch-Pre Permian Gas	
TOWNSHIP	9S	RANGE	27E	NMFM	Exhibit II
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: See Exhibit I

Discovery Well: Plains Radio Broadcasting Co., Camel #1-F-7-9-27
Comp. 5-9-81 Thru Penn perfs 6154-6164.

Proposed pool boundary outlined in blue.

Section 7: W/2

Section 18: W/2

COUNTY LEA

POOL

HOUSE-YATES-SEVEN RIVERS GAS

TOWNSHIP 19 South

RANGE 39 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

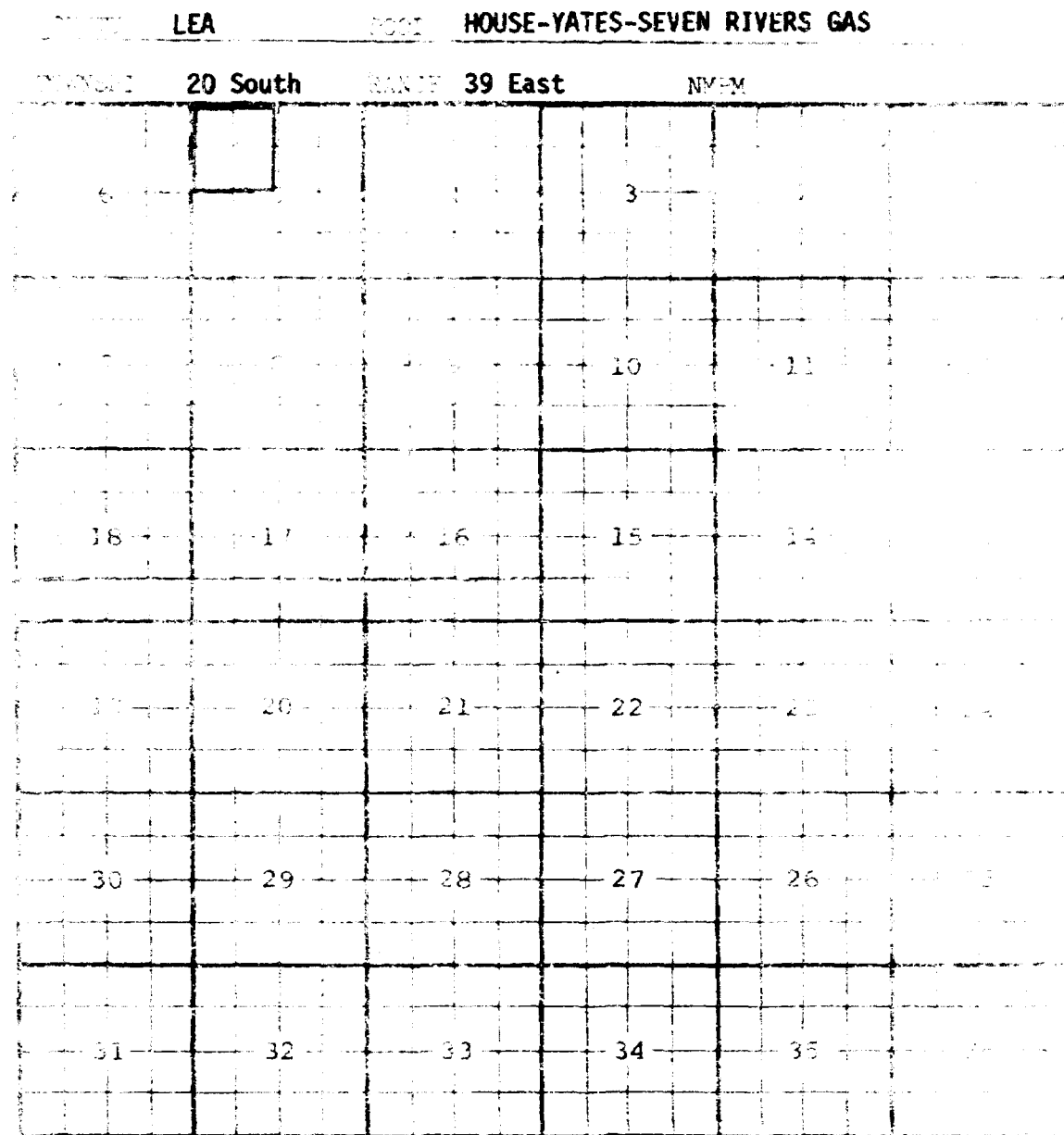
PURPOSE: Three completed gas wells capable of producing.

MGF Oil Corp. J. Speight #1-P in Sec 31, T19S, R39E, completed 5-1-82 in SR formation. Top perf 3020 ft.

MGF Oil Corp. MGF Sun Well #1-N in Sec 32, T19S, R39E, completed 4-15-82 in SR formation. Top perf 3007 feet.

Proposed pool boundary outlined in red. SECTION 31: SE/4

SECTION 32: SW/4



DISCOVERY WELL: MGF Oil Corp. J. Wright #1-D in Sec 5, T20S, R39E, completed March 30, 1982, in the Seven Rivers formation. Top perf 3004 feet.

Proposed pool boundary outlined in red. SECTION 5: NW/4

LEA

POLLOCK-WOLFCAMP

T14S		R38E		NW1/4	
14 South		38 East			
1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30
31	32	33	34	35	36

PURPOSE: One completed oil well capable of producing and assignment of a discovery allowable of 46,910 barrels to the discovery well:

Reading & Bates Co. Dickinson Cattle Co. 33 Well #1-N in Sec. 33, T14S, R38E, completed 4-29-82 in Wolfcamp formation. Top perf 9,404 feet.

Proposed pool boundary outlined in red. SECTION 33: SW/4

COUNTY LEA POOL WEST RED HILLS-WOLFCAMP GAS

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

PURPOSE: One completed gas well capable of producing.

BTA Oil Producers Mesa 8105 JV-P Well #1-I in Sec 1, T26S, R32E, completed May 5, 1982, in the Wolfcamp formation. Top perf 13,367 feet.

Proposed pool boundary outlined in red. SECTION 1: E/2

CASE NO. 7634 (h) CREATION OF A NEW OIL POOL

COUNTY LEA

POOL TOWNSEND-ABO

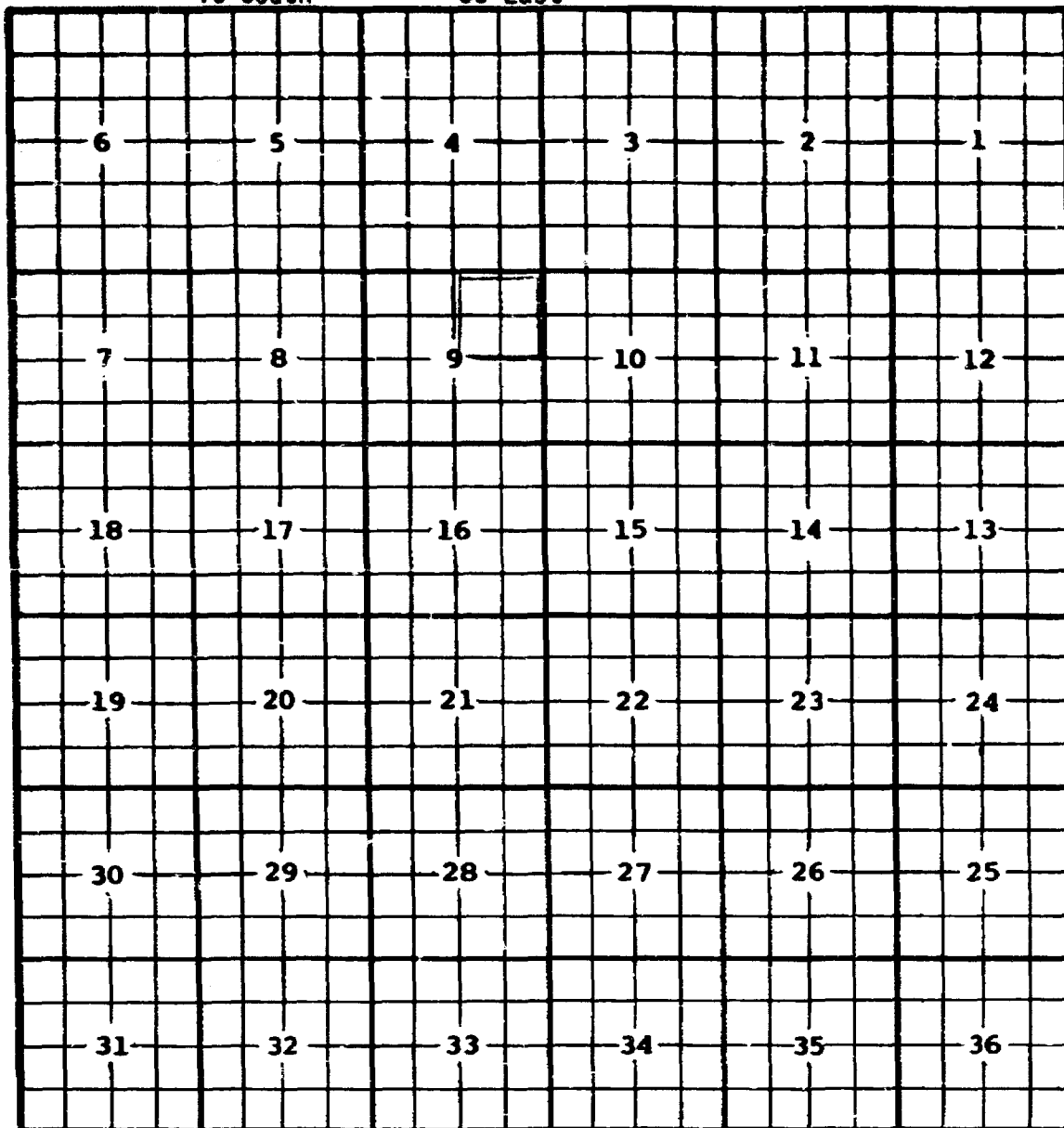
TOWNSHIP

16 South

RANGE

35 East

INPM



PURPOSE: One completed oil well capable of producing.

DISCOVERY WELL: Charles B. Gillespie, Jr. Exxon Townsend Well #1-B in Section 9, T16S, R35E, completed September 25, 1981, in the Abo formation. Top perms 8,716 feet.

Proposed pool boundary outlined in red. SECTION 9: NE/4

CASE NO. 7634 (1) ABOLISHMENT OF AN EXISTING OIL POOL

TOWNSHIP		RANGE		SECTION	
6 South		34 East		NORTH	
	5	4	3	2	1
		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

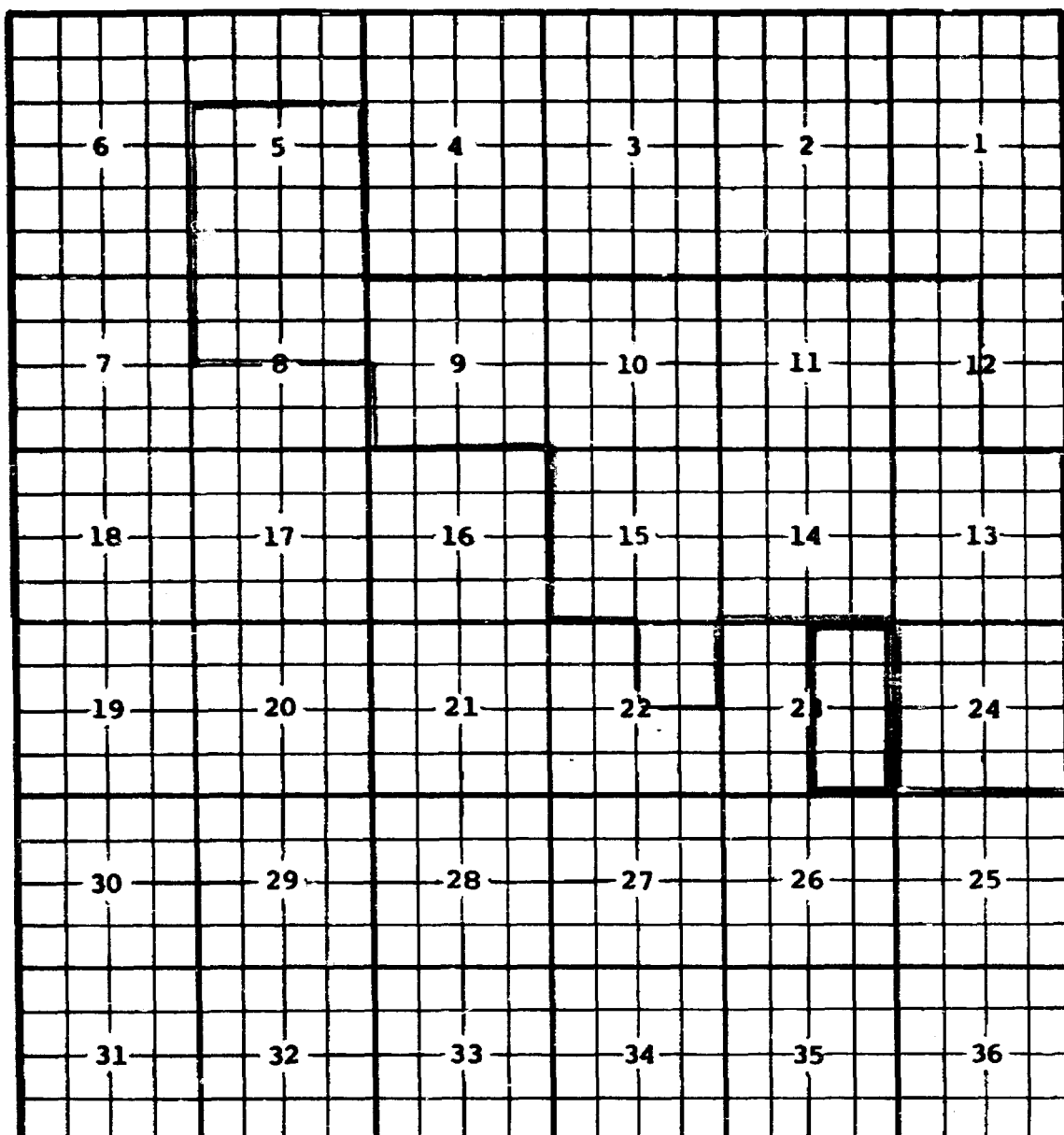
PURPOSE: Due to geological interpretation of structure and logs this pool should be abolished and both wells placed in the South Peterson Penn Associated Pool.

Pool to be abolished described as: SECTION 8: SE/4

CASE NO. 7634 (j) EXTENSION OF AN EXISTING ASSOCIATED POOL

COUNTY ROOSEVELT POOL BLUITT-SAN ANDRES ASSOCIATED

TOWNSHIP 8 South RANGE 37 East MPM



PURPOSE: One completed oil well capable of producing.

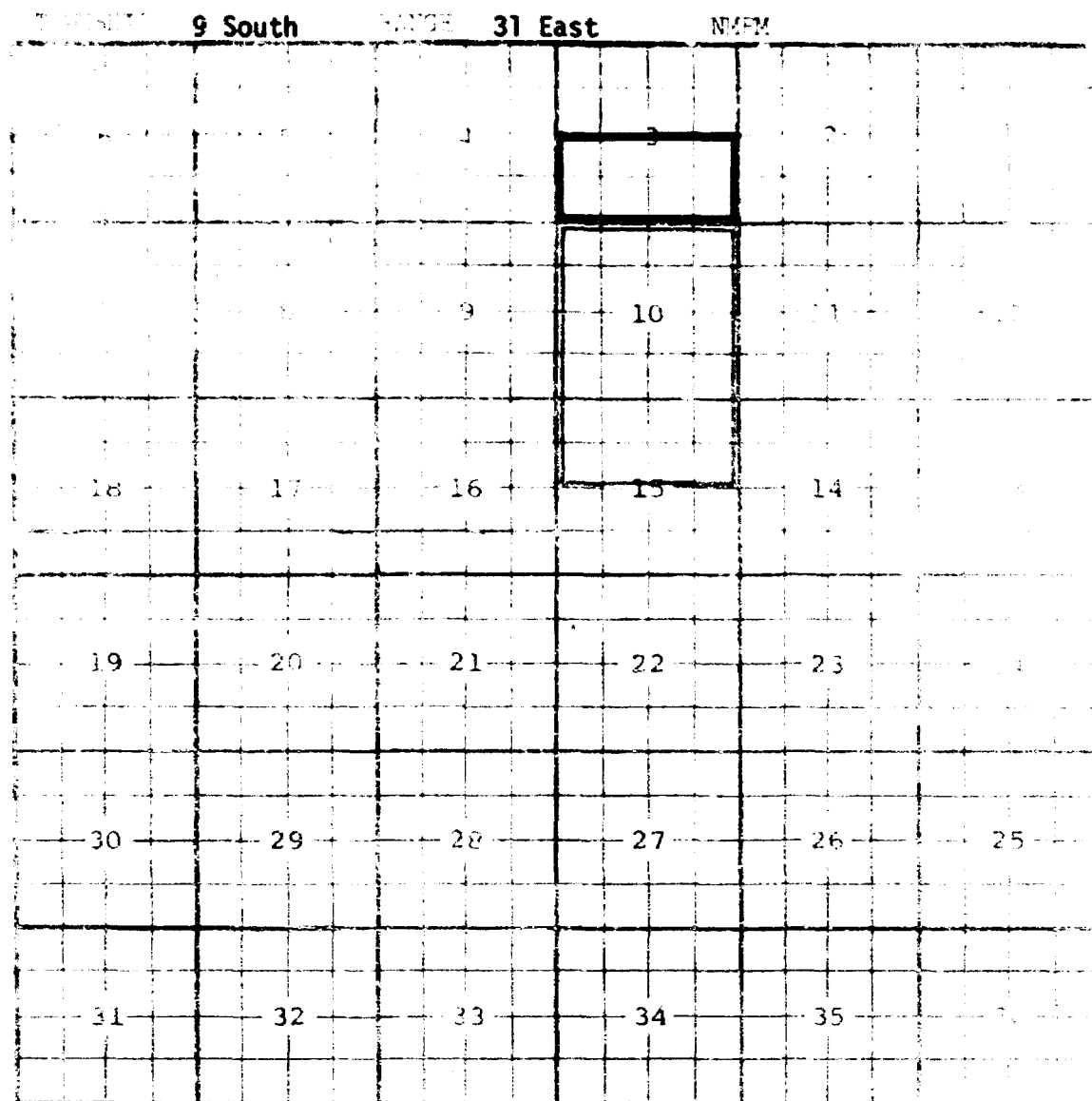
Tom L. Ingram Federal N Well #2Y in Unit P Sec 23, T8S, R37E, completed Dec 28, 1981 in San Andres formation. Top perf 4,794 feet.

Pool boundary outlined in red.

Proposed pool extension outlined in green. SECTION 23: E/2

CHAVES

CARSON-MORROW GAS



PURPOSE: One completed gas well capable of producing.

Maralo Inc. Carson Federal Com Well #1-N in Sec 3, T9S, R31E, completed April 9, 1982, in Morrow formation. Top perf 9,767 feet.

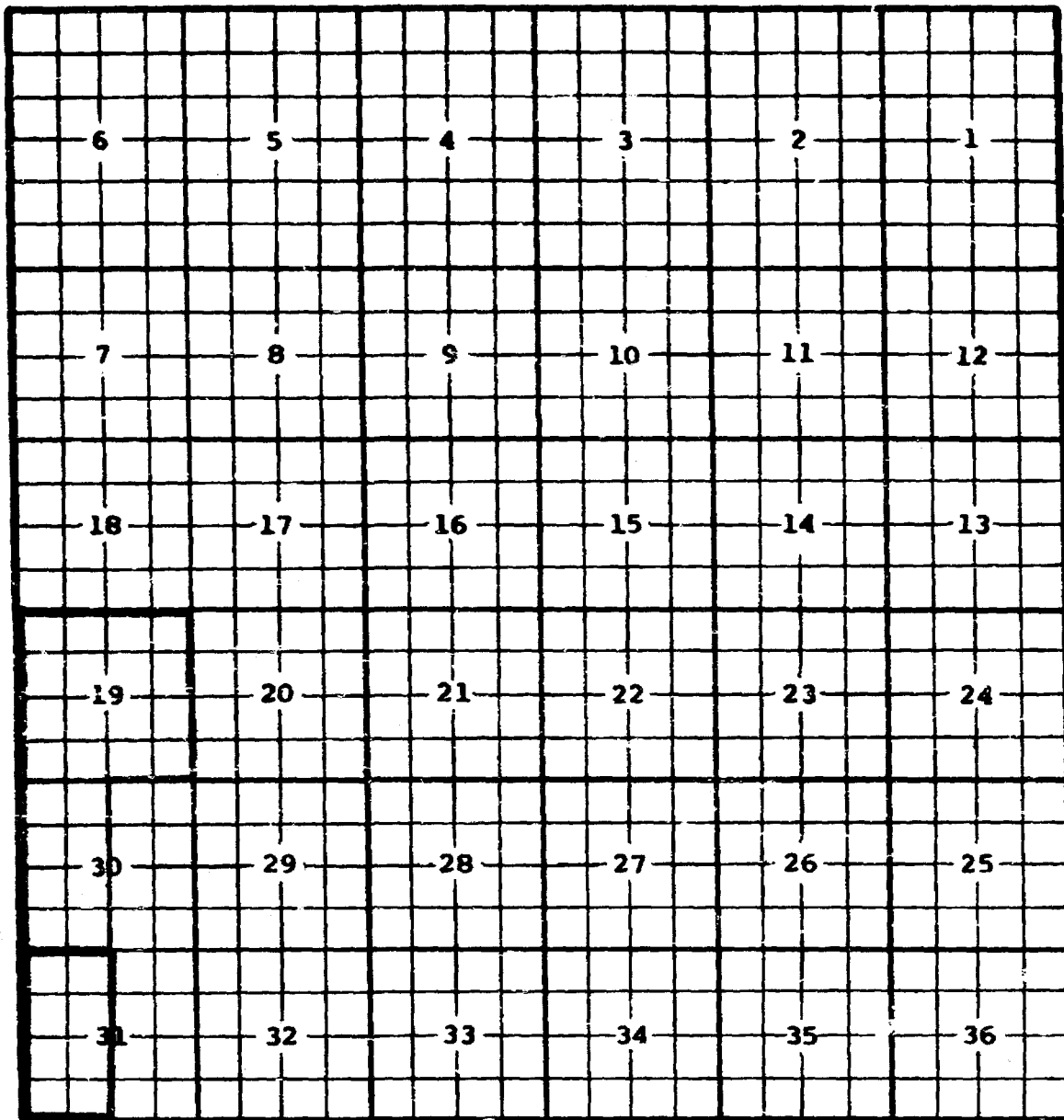
Pool boundary outlined in red.

Proposed pool extension outlined in green. SECTION 3: S/2

CASE NO. 7634 (1) EXTENSION OF AN EXISTING GAS POOL

COUNTY Eddy POOL Crow Flats-Morrow Gas

TOWNSHIP 16S RANGE 28E NEPM



Purpose: One completed gas well capable of producing.

Upr.	Lse.	#&Ut.	STR	Comp.	Fmtn.	Top
MWJ Prod. Co.	Dog Canyon	31 E Fed.	#1-E 31-16-28	3-26-82	Morrow	9351

Pool boundary outlined in red.

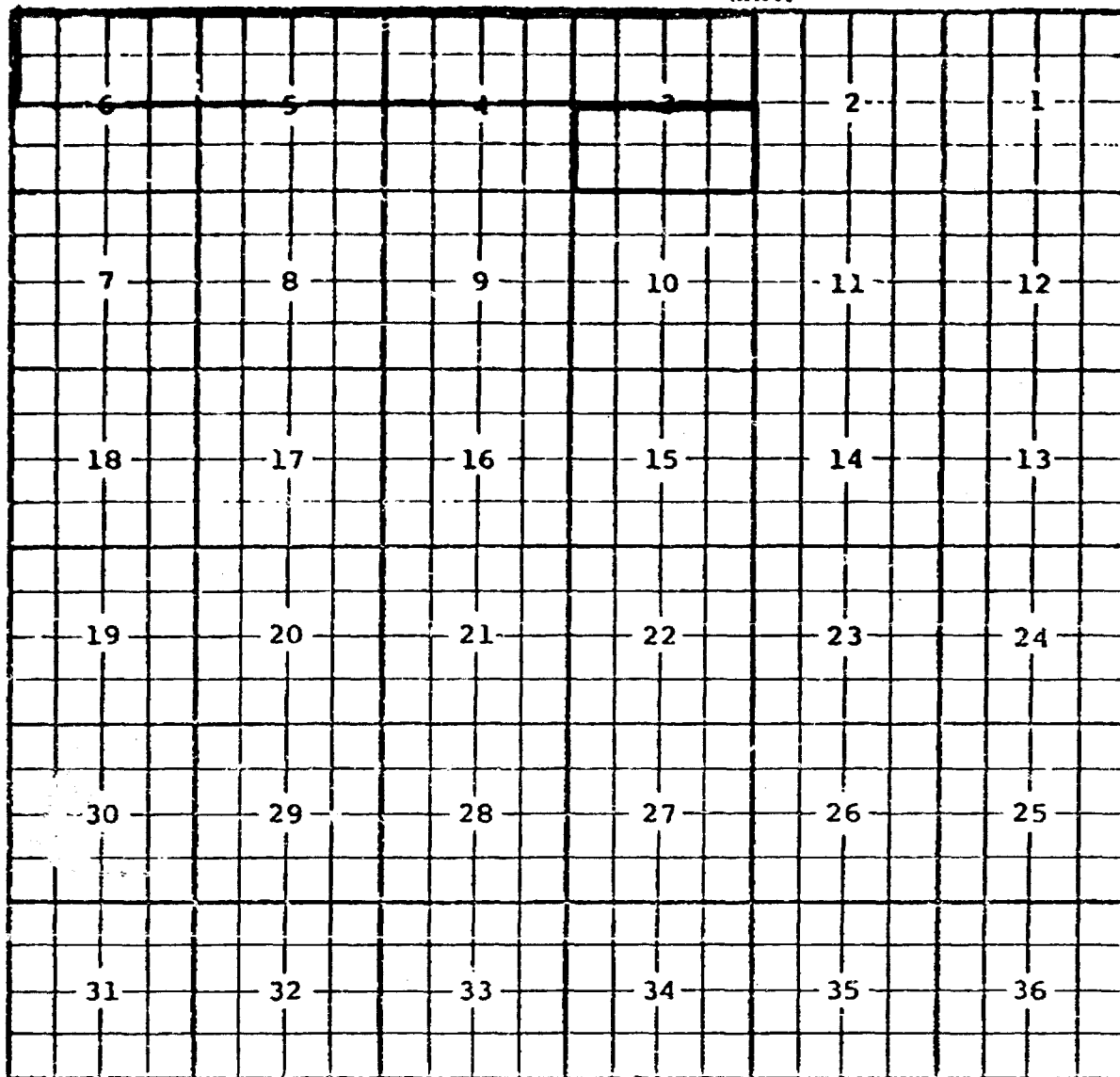
Proposed extension outlined in blue.

Section 31: W/2

CASE NO. 7634 (m) EXTENSION OF AN EXISTING GAS POOL

COUNTY Eddy POOL Empire-Penn Gas

TOWNSHIP 18S RANGE 28E NMPM



Purpose: One completed gas well capable of producing.

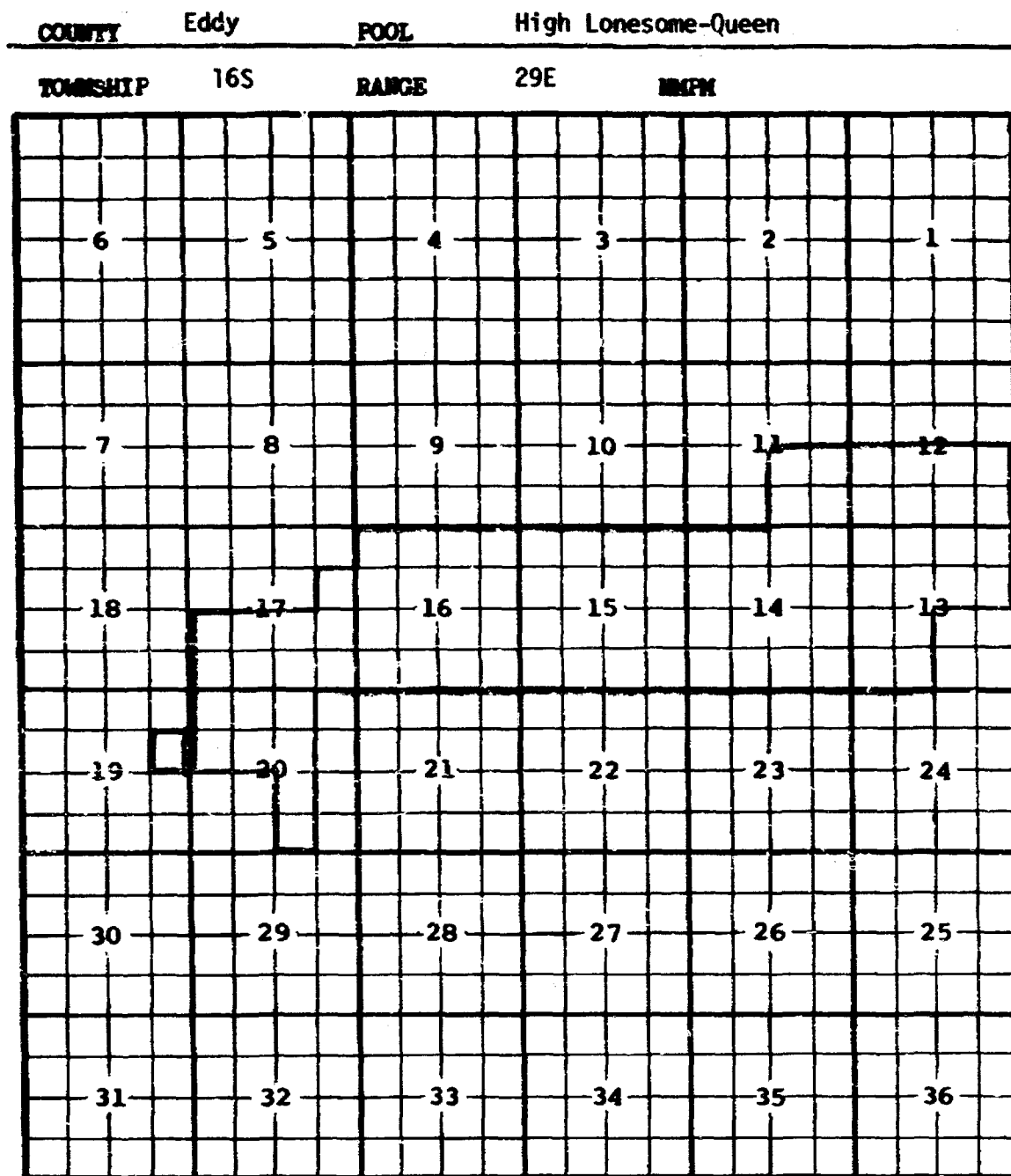
Opr.	Lease Name	#&Ut.	STR	Comp.	Emtn.	Top
Hondo Oil & Gas Co.	Featherstone St.	#1-I	3-18-28	4-19-82	Morrow	10,414

Pool boundary outlined in red.

Proposed extension outlined in blue.

Section 3: S/2

CASE NO. 7634 (n) EXTENSION OF AN EXISTING OIL POOL



Purpose: One completed oil well capable of producing.

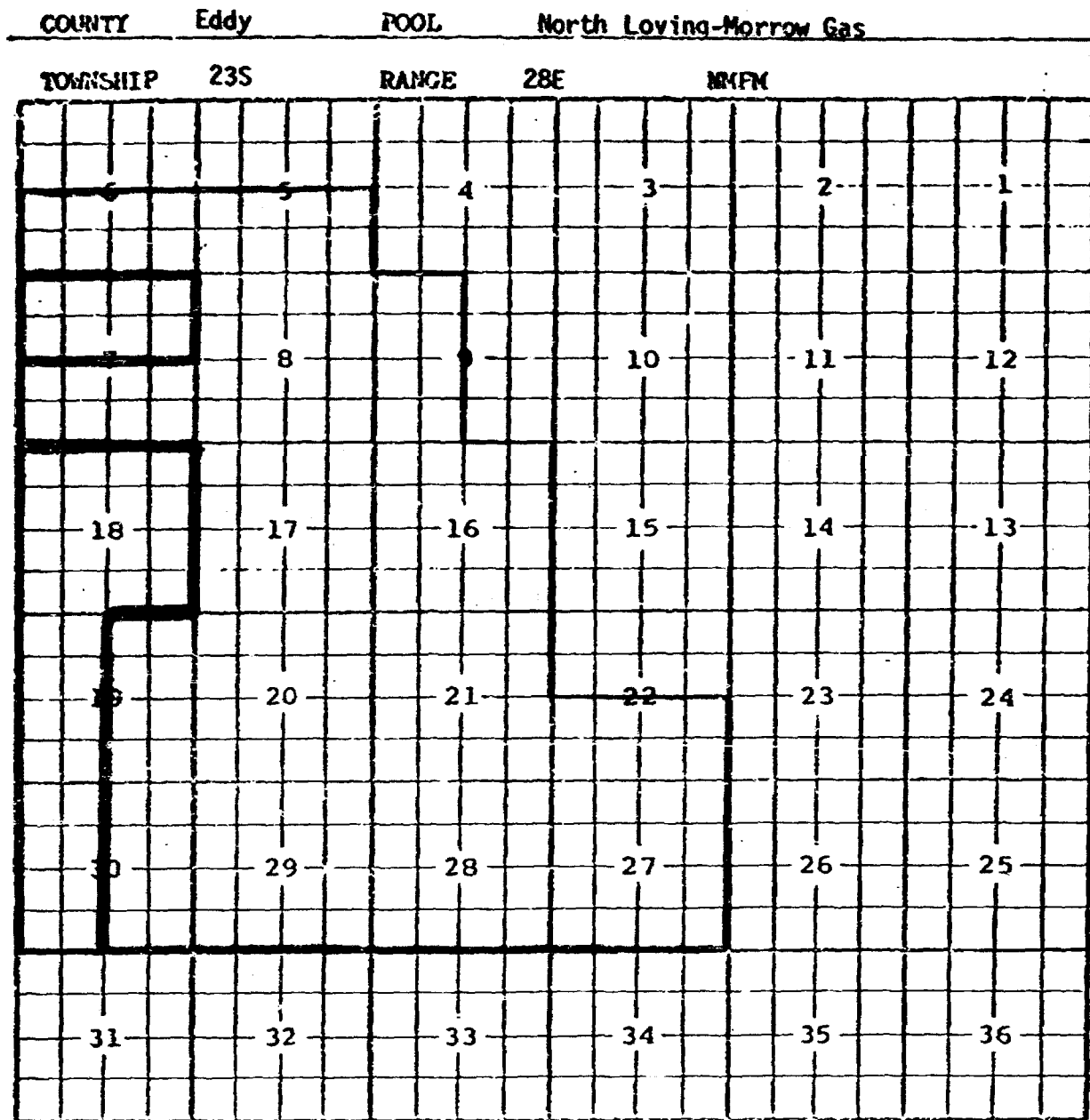
Opr.	Lease Name	# & Uf.	STR	Comp.	Fmtn.	Top
Exxon Corp.	Ryan Fed.	2-H	19-16-29	6-20-82	Queen	1688

Pool boundary outlined in red.

Proposed extension outlined in blue.

Section 19: SE/4 NE/4

CASE NO. 7634 (o) EXTENSION OF AN EXISTING GAS POOL



Purpose: Two completed gas wells capable of producing.

Opr.	Lease Name #&Ut.	STR	Comp.	Fmtn.	Top
Read & Stevens Inc.	Kimbley #1-F	19-23-28	4-27-82	Morrow	12,160
HNG Company	Pardue 30 Com #1-E	30-23-28	6-15-82	Morrow	12,070

Pool boundary outlined in red.

Proposed extension outlined in blue.

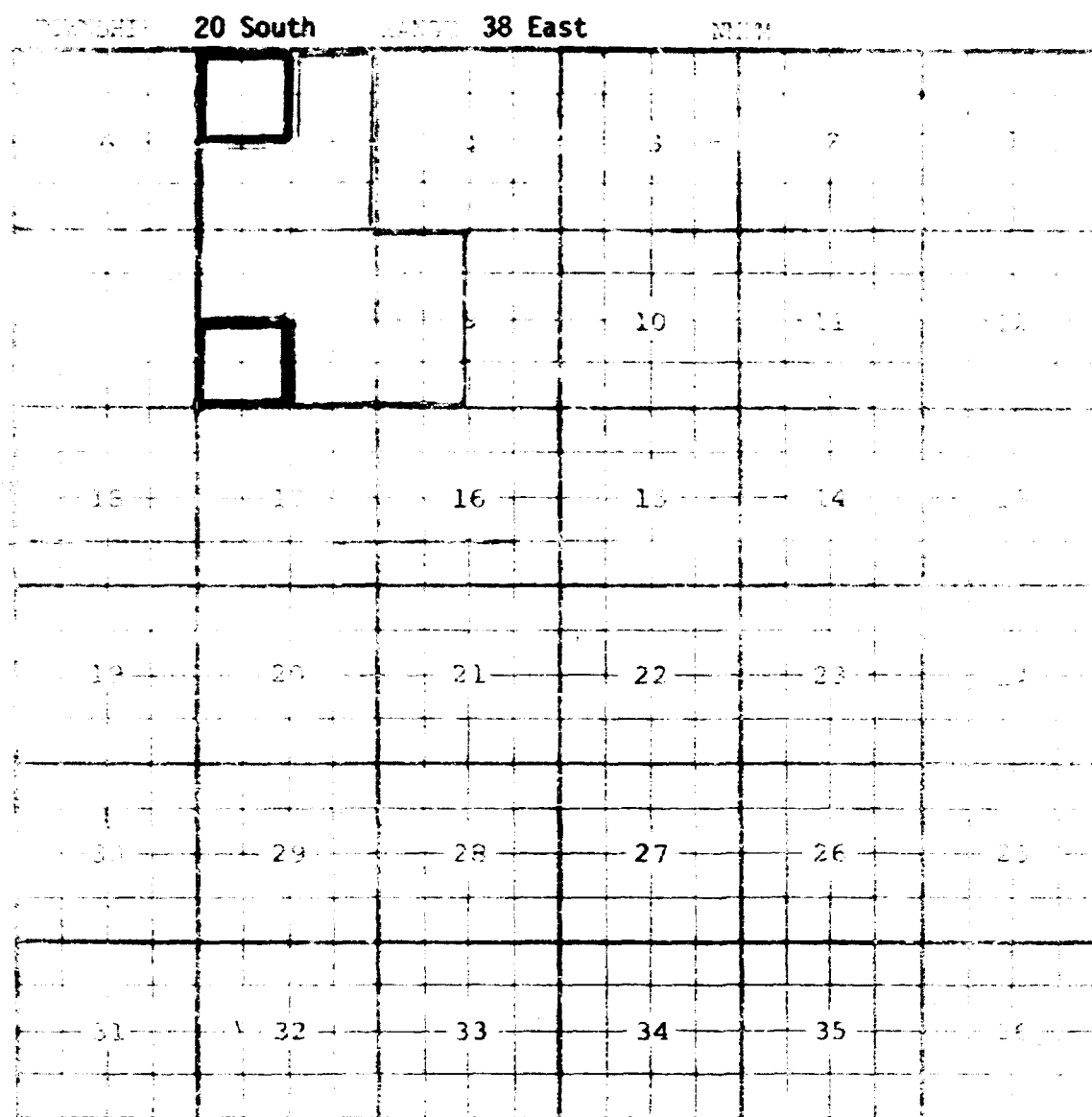
Section 7: N/2

Section 18: All

Section 19: W/2

Section 30: W/2

COUNTY Lea POOL WEST NADINE-BLINEBRY



PURPOSE: Two completed oil well capable of producing.

Morris R. Antweil Huey Well #2-F in Sec 5, T20S, R38E, completed May 23, 1982 in the Blinebry formation. Top perfs 5,935 feet.

Morris R. Antweil Herman #2-K in Sec 8, T20S, R38E, completed 5-8-82 in Blinebry formation. Top perf 5946 feet.

Pool boundary outlined in red.

Proposed pool extension outlined in green. SECTION 5: NW/4
SECTION 8: SW/4

CASE NO. 7634 (q) EXTENSION OF AN EXISTING GAS POOL

COUNTY	Chaves		POOL	Pecos Slope-Abo Gas	
TOWNSHIP	4S		RANGE	24E	NMPX Exhibit I
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 gas well capable of producing.

Opr.	Lease Name	#&Ut.	STR	Comp.	Fmtn.	Top
Yates Pet. Corp.	Redman OY St.	#6-K	26-4-24	4-27-62	Abo	3628

Pool boundary outlined in red.

Proposed extension outlined in blue.

Section 26: W/2

COUNTY	Chaves	POOL	Pecos Slope-Abo Gas		
TOWNSHIP	6S	RANGE	24E	NMFM	Exhibit III
6	5	4	3	2	1
7	8	9	10	11	12
13	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

1-6 Short
Sec's.

Purpose: One completed gas well capable of producing.

Opr.	Lease Name #&Ut.	STR	Comp.	Fmtn.	Top
Mesa Pet. Co.	Lake Tank 1-Y -I	18-6-24	6-23-81	Abo	3131

Pool boundary outlined in red.

Proposed extension outlined in blue.

Section 15: All

Section 16: All

Section 17: All

Section 18: E/2

COUNTY	Chaves	POOL	Pecos Slope-Abo Gas
TOWNSHIP	7S	RANGE	26E
NNFM Exhibit IV			
6	5	4	3
7	8	9	10
18	17	16	15
19	20	21	22
30	29	28	27
31	32	33	34

Purpose: 2 completed gas wells capable of producing.

Opr.	Lease Name	#&Ut.	STR	Comp.	Fmtn.	Top
Berge Expl.Co.	Dale Fed.	#12-D	27-7-26	4-25-82	Abo	4539
Depco Inc.	Vance Fed.	# 1-0	27-7-26	2-19-82	Abo	4106

Pool boundary outlined in red.

Proposed extension outlined in blue.

Section 27: All

Section 33: All

Section 34: All

COUNTY Chaves POOL Pecos Slope-Abo Gas

TOWNSHIP	8S	RANGE	25E	NNFM	Exhibit V
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 gas well capable of producing.

Opr.	Lease Name	#&Ut.	STR	Comp.	Fmtn.	Top
Stevens Opr. Co.	Cobie-Ebeid	#1-J	13-8-25	2-6-82	Abo	4143.5

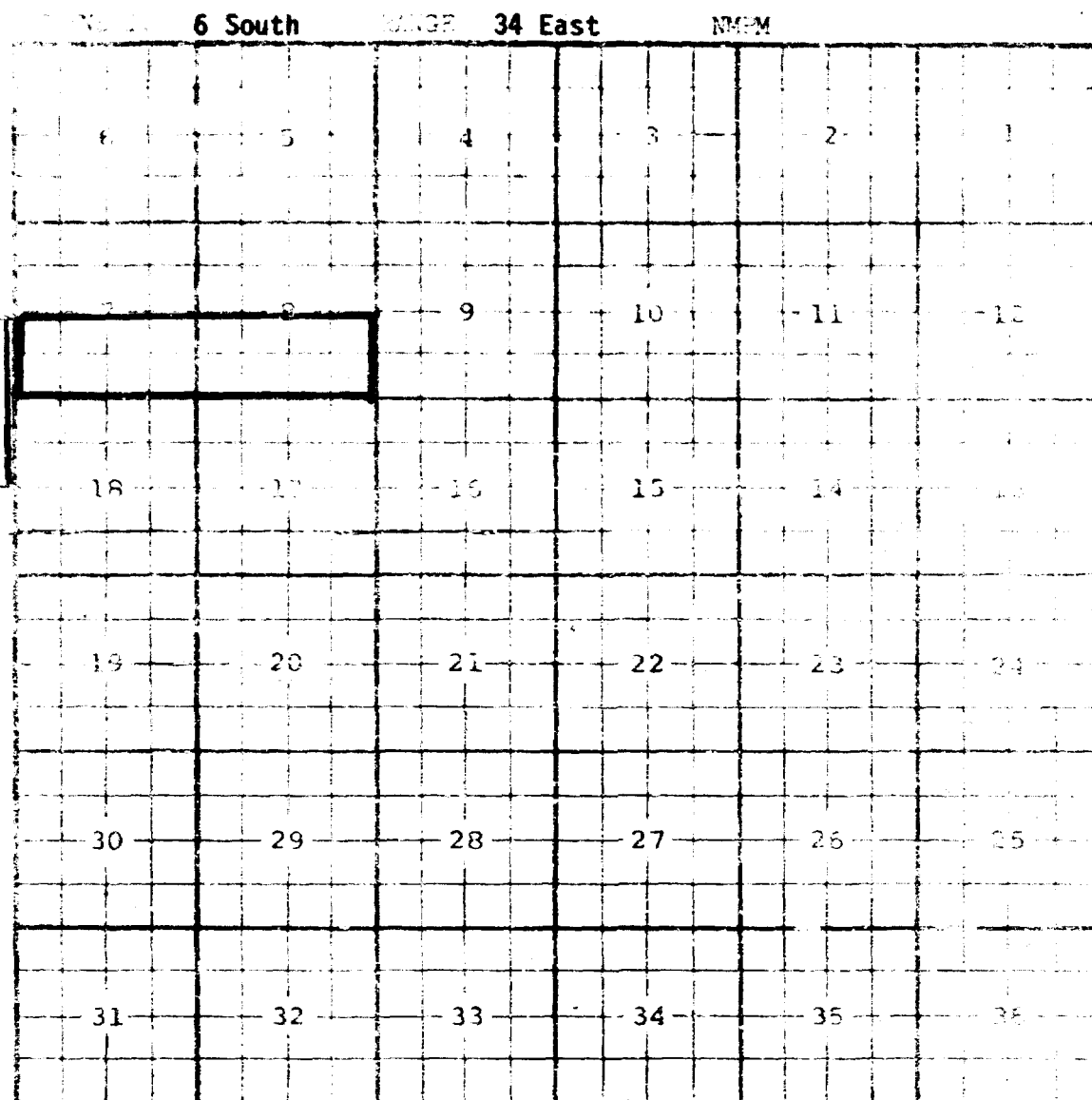
Pool boundary outlined in red.

Proposed extension outlined in blue.

Section 13: S/2

CASE NO.7634 (r) EXTENSION OF AN EXISTING ASSOCIATED POOL

RANGE 34 East TOWNSHIP 6 South



PURPOSE: To take in acreage from abolished East Tanneyhill Cisco Pool.

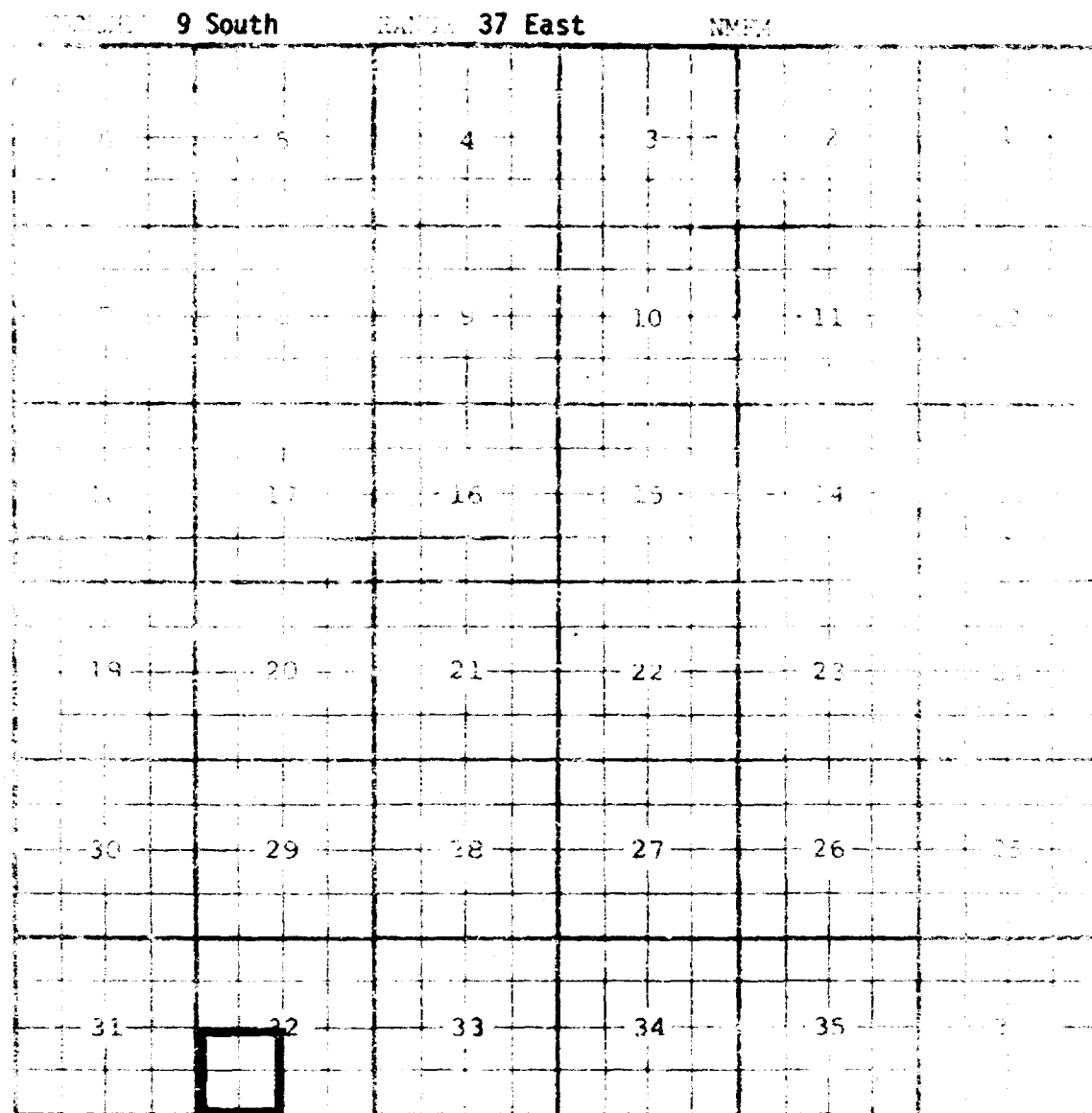
Pool boundary outlined in red.

Proposed pool extension outlined in green. SECTION 7: S/2

SECTION 8: S/2

CASE NO. 7634 (s) EXTENSION OF AN EXISTING OIL POOL

LEA POOL WEST SAWYER-SAN ANDRES



PURPOSE: One completed gas well within an oil pool capable of producing. Julian Ard Harton State Well #2-N in Sec 32, T9S, R37E, completed 10-22-81 in San Andres formation. Top perf 4,895 feet.

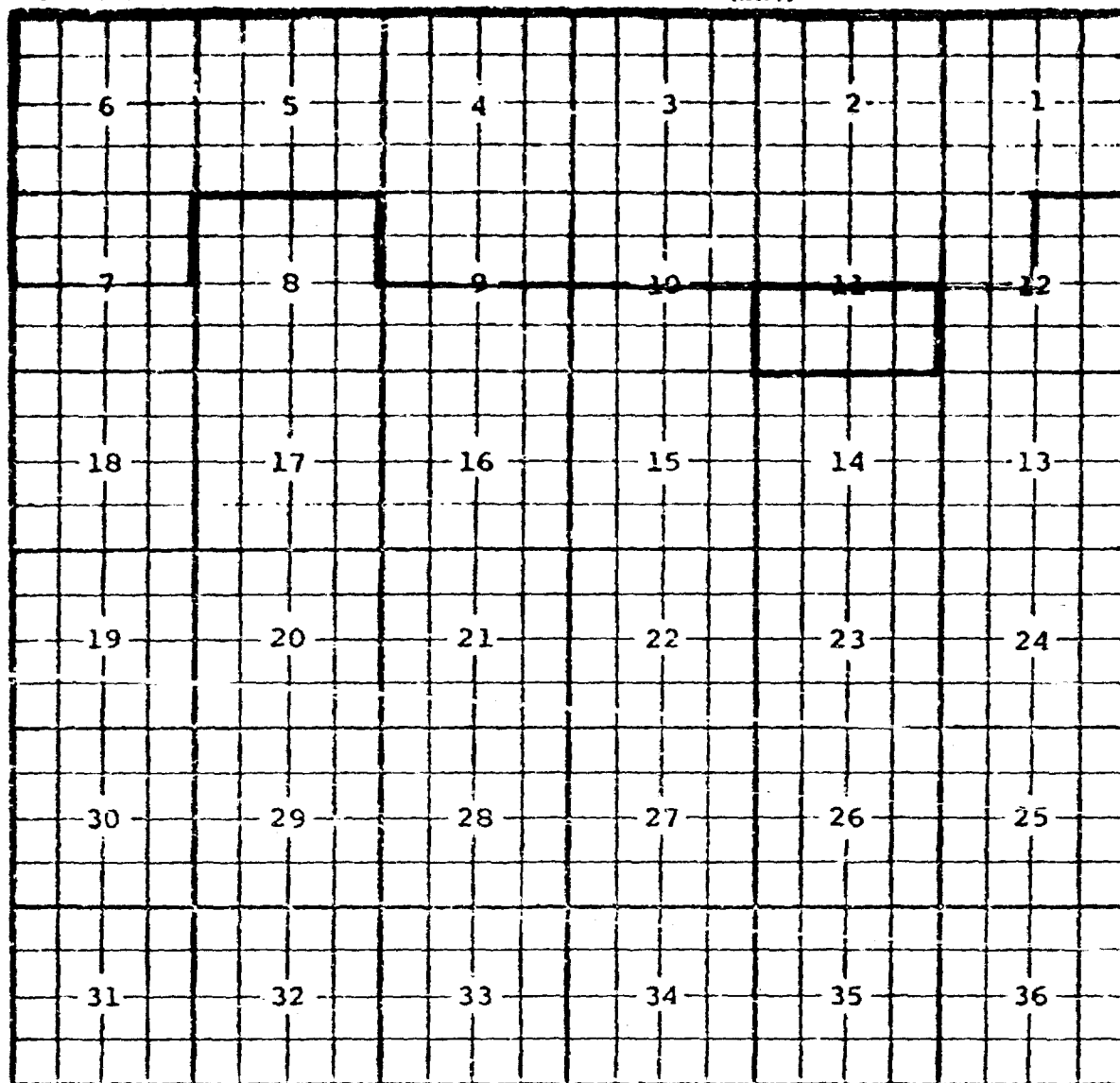
Pool boundary outlined in red.

Proposed pool extension outlined in green. SECTION 32: SW/4

CASE NO. 7634 (t) EXTENSION OF AN EXISTING OIL POOL

COUNTY Eddy POOL Square Lake-Grayburg/San Andres

TOWNSHIP 17S RANGE 30E NMPM



Purpose: One Completed oil well capable of producing.

Opr.	Lease Name	#&Ut.	STR	Comp.	Fmtn.	Top
Burnett Oil & Gas Inc.	Gissler B	#16-L	11-17-30	6-13-82	Gb/SA	3011

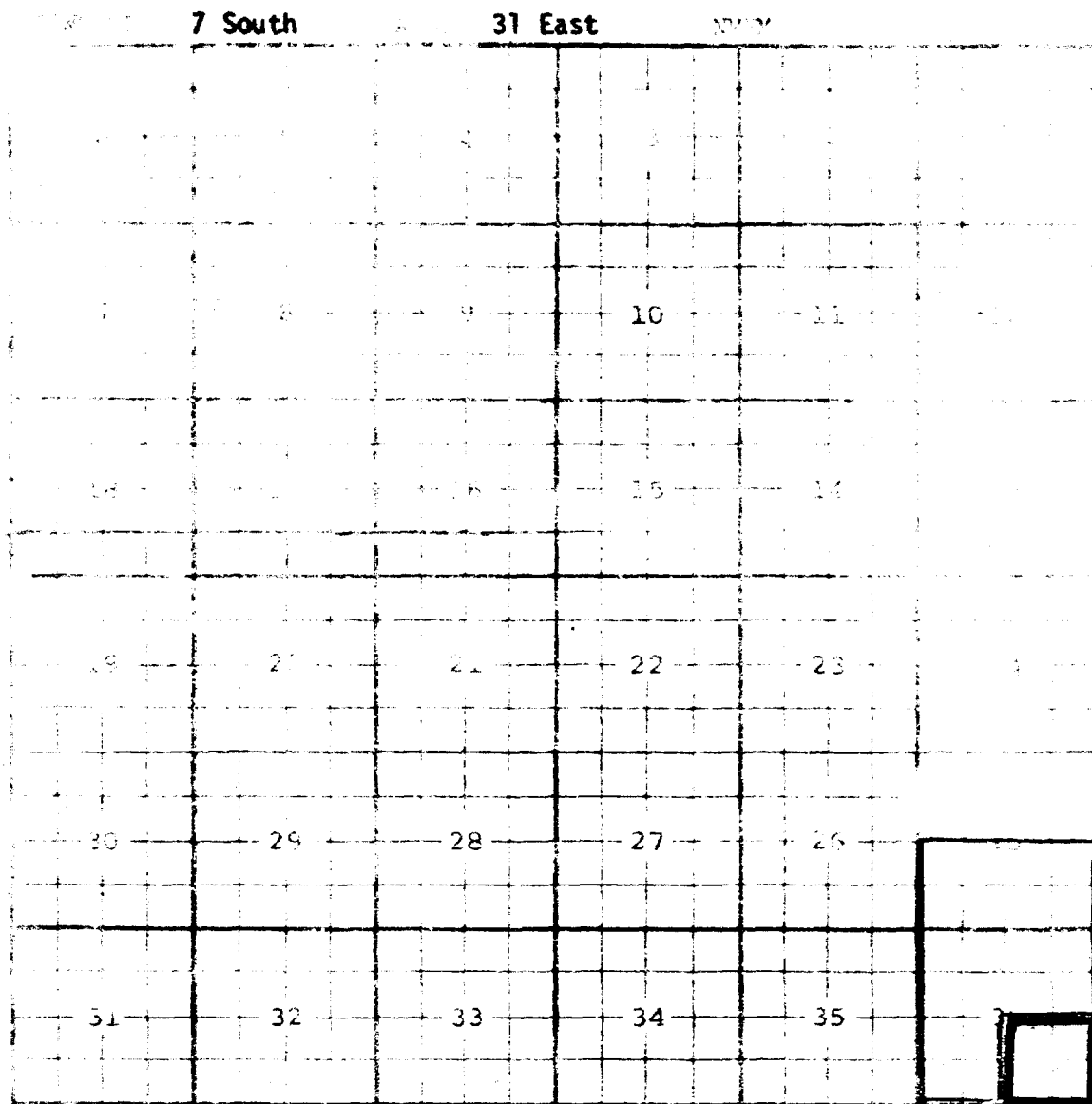
Pool boundary outlined in red.

Proposed extension outlined in blue

Section 11: S/2

CHAVES

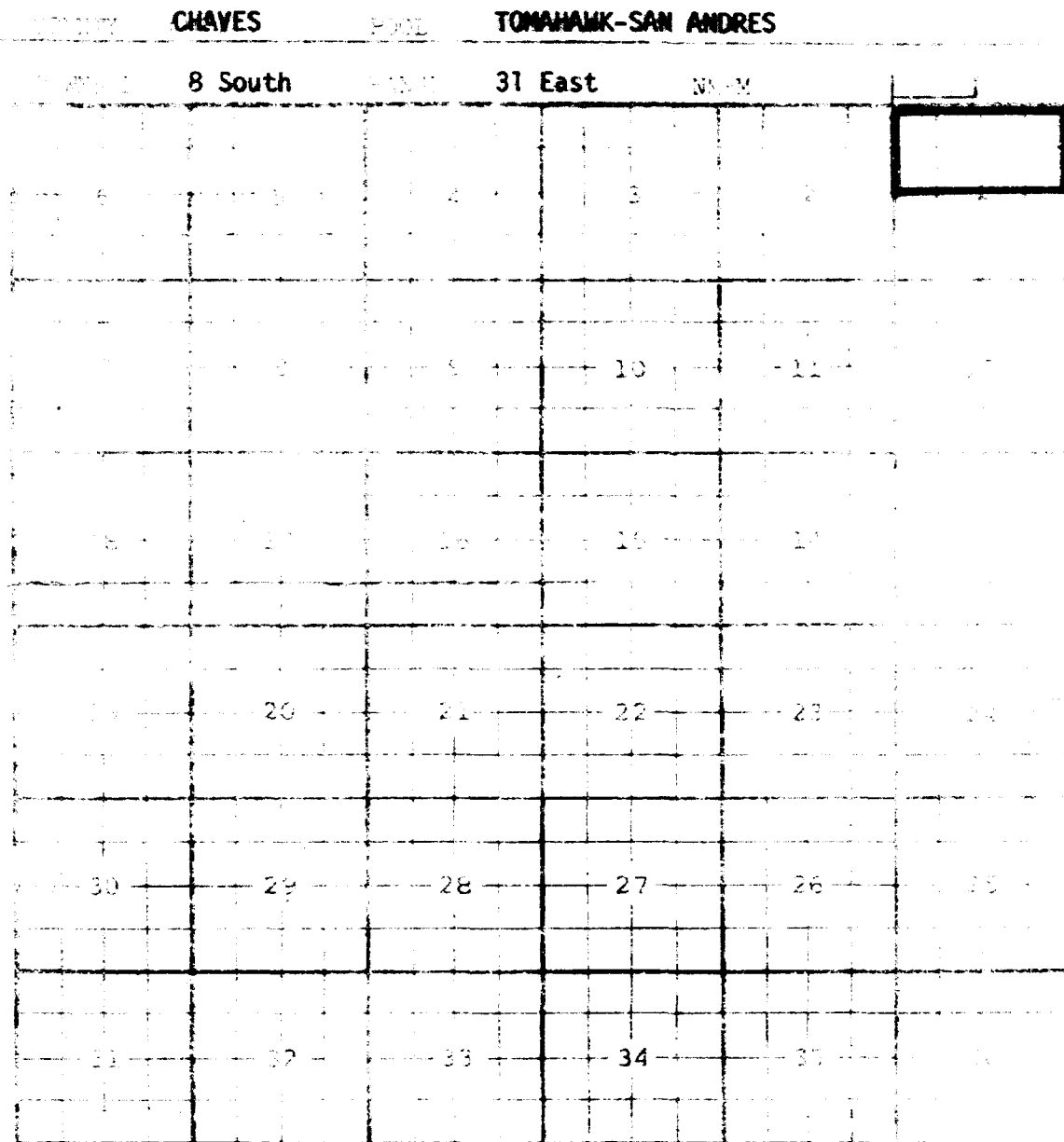
TOMAHAWK-SAN ANDRES



PURPOSE: Two completed oil wells capable of producing. See page 2 of this exhibit.

Pool boundary outlined in red.

Proposed pool extension outlined in green. SECTION 36: SE/4



PURPOSE: Yates Petroleum Corp. Union SI Fed #3-B in Sec 1, T8S, R31E, completed June 11, 1982, in the SA formation. Top perf 3987 feet.

Yates Petroleum Corp. Union SI Fed #2-C in Sec 1, T8S, R31E, completed March 23, 1982, in the SA formation. Top perf 3957 feet.

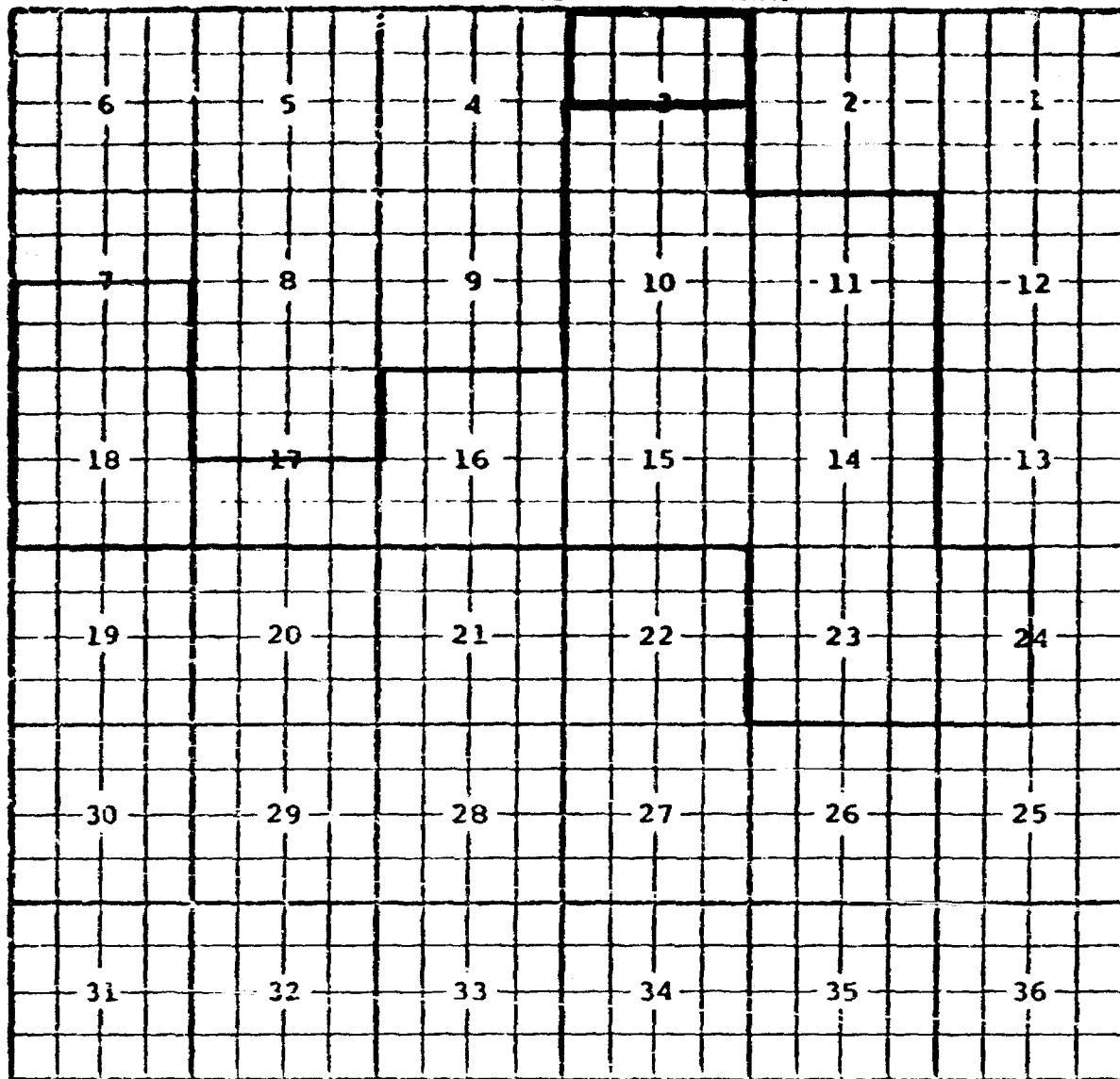
Pool boundary outlined in red.

Proposed pool extension outlined in green. SECTION 1: N/2

CASE NO. 7634 (v) EXTENSION OF AN EXISTING GAS POOL

COUNTY Eddy POOL Turkey Track-Morrow Gas

TOWNSHIP 19S RANGE 29E NEFM



Purpose: One completed gas well capable of producing

Opr.	Lease Name	#&Ut.	Stk	Comp.	Fmtn.	Top
Cities Service Co.	State DB Com	#1-C	3-19-29	4-8-82	Morrow	11,132

Pool boundary outlined in red.

Proposed extension outlined in blue.

Section 3: N/2

COUNTY Chaves

POOL

Twin Lakes-San Andres Associated

TOWNSHIP

9S

RANGE

28E

MEM

Exhibit I

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

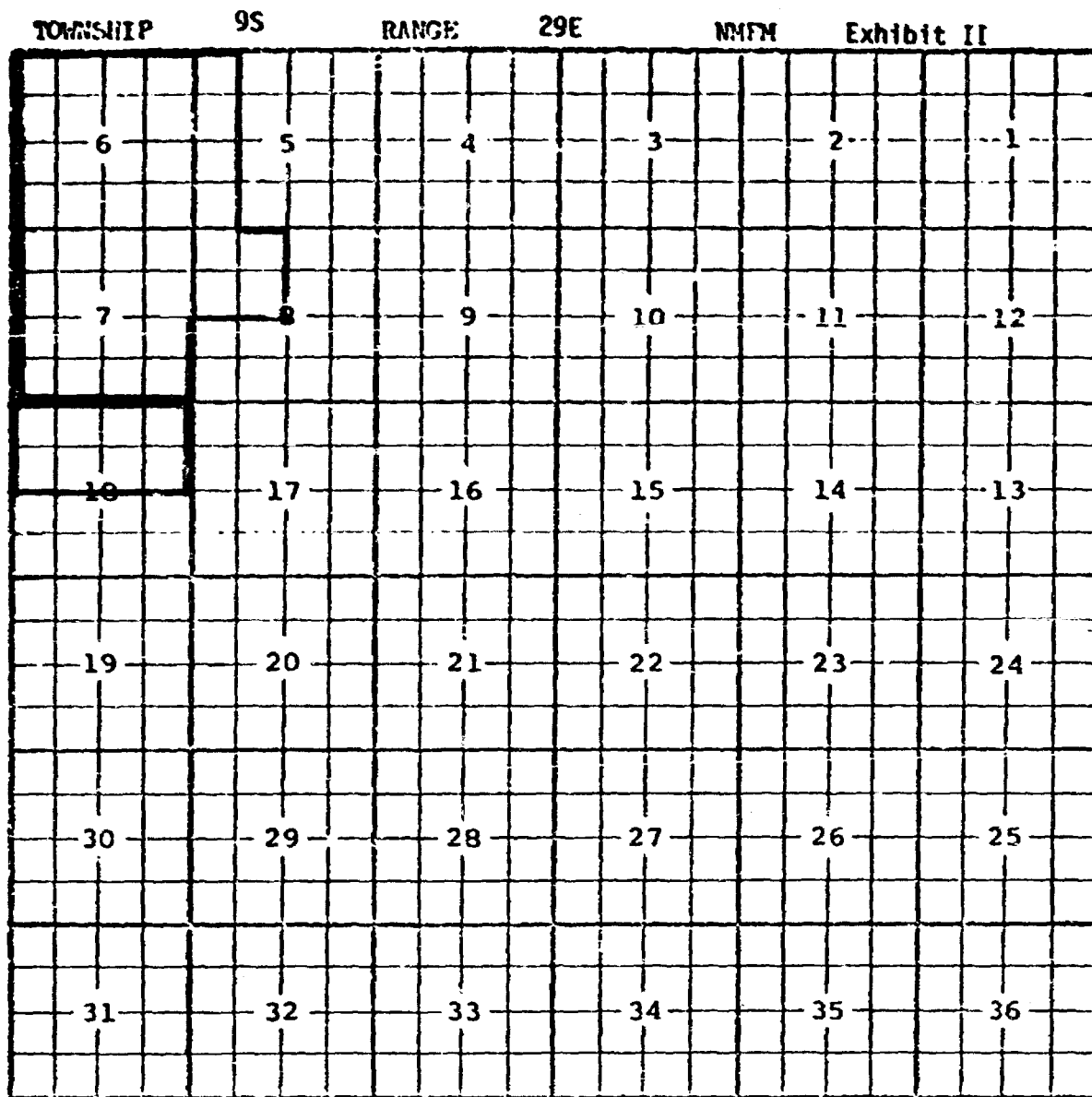
Purpose: One completed oil well capable of producing.

Opr.	Lease Name	#&Ut.	STR	Comp.	Fmtn.	Top
Stevens Opr. Co.	O'Brien DB	#1-I	12-9-28	6-12-82	San Andres	2630

Pool boundary outlined in red.

Proposed extension outlined in blue.

Section 12: SE/4



Purpose: See Exhibit I

Opr.	Lease Name	#&Ut.	STR	Comp.	Fmtn.	Top
See Exhibit I						

Pool boundary outlined in red.

Proposed extension outlined in blue.

Section 18: N/2

CASE NO. 7634 (x) EXTENSION OF AN EXISTING OIL POOL

COUNTY	Eddy		POOL	Willow Lakes-Bone Spring	
TOWNSHIP	24S		RANGE	28E	
				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.

Opr.	Lease Name	#&Ut.	STR	Comp.	Fmtn.	Top
Dinero Opr. Co.	Huber State	#1-C	32-24-28	12-22-81	Bone Spring	6090

Pool boundary outlined in red.

Proposed extension outlined in blue.

Section 32: N/2 N/2

Section 33: N/2 NW/4

Foor Ranch - prePenn. Gas Fact Sheet.

Lease name	Tbg (SZ)	Cvg (SZ)
Camel #1	1997	2365
Byrom #1	1984	2379
Eastland #1	1977	2364
Eastland #2	2017	-
Whitworth RU #1	1825	-
\bar{M}	1960	2369

Methane Avg. 88.98 Camel #1
 90.506 Byrom St. #1
 90.029 Eastland St. #1
 \bar{M} 89.838%

BTU

	Camel	Byrom	Eastland	
W	1038	1075	1039	= 1050.6
D	1056	1094	1058	= 1069.3

} Avg.

Plains Radio Broadcasting Camel #1 F AOF 4186.8 mcf IP 6154-64 F-7-9-27
 Mr. Fred Pool Byrom #1 AOF 4144.3 mcf. IP 6204-6228 I-1-9-26
 Penn " Eastland #1 AOF 631.8 mcf IP 6072-82 I-13-9-26
 Foss " #2 AOF 8882 mcf IP 6002-50 K-3-4-26
 Miss. Yates Pet. Co. Whitworth RU St. #1 AOF 240 mcf IP 6302-48 H-12-4-26

2 marg. whitworth, Eastland #1.

3 cap producers Camel #1, Byrom #1, Eastland #2.

NEW MEXICO OIL CONSERVATION COMMISSION
WELL COMPLETION OR RECOMPLETION REPORT AND LOG
RECEIVED

DISC. WELL.

JUN 11 1981

OIL WELL ☐ GAS WELL ☒ DRY ☐
O. C. D.
ARTESIA OFFICE

Plains Radio Broadcasting Company ✓
1300 Clovis Star Rt. Roswell, N.M. 88201

UNIT LETTER F LOCATED 1980 FEET FROM THE W LINE AND 1980 FEET FROM

THE N 7 9S 27E
3-8-81 4-4-81 4-13-81 3851. G1 3851

6263 6257
6257 to 6263 Fenn.
6154 - 64
yes

26. Type Log was of 3 Other Log is than Computer processed log
Compensated Neutron-formation Density & Dual Laterolog Micro-SFL;
27. Was Well Cored no

28. CASING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT LBS./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8	48#	276	17 1/2	300 sx Cl C 2% Cl Ch	0
8 5/8	24#	1402	12 1/2	200 sx. Cl C, 2% Cl Ch	-
4 1/2	10.5#	6257	7 7/8	375 sx Cl C	-

29. LINER RECORD				30. TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET
					2.375"	6020
						6020

31. For each casing (Material, size and amount)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
6154-6164 ft.	20, 3/8" holes	DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
		6257-6263	3000 gal. 20% HCL, N ₂

33. PRODUCTION							
Date First Production		Production Method (Flowing, gas lift, pumping - Size and type pump)				Well Status (Prod. or Shut-in)	
5-9-81		flowing				S I	
Date of Test	Hours Tested	Choke Size	Pressure Per Test Period	Oil - Ebl.	Gas - MCF	Water - Ebl.	Gas - Oil Ratio
5-9-81	4	2.25		0	92.0 Mcf	0	0
Flow Testing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Ebl.	Gas - MCF	Water - Ebl.	Oil Gravity - API (Corr.)	
1947 psig	2321. psig		0	4,186	0	0	

34. Disposition of Gas (Sld, used for fuel, vented, etc.)
vented
Test Witnessed By
Fred Pool, Jr.

35. List of Attachments
logs

36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.
SIGNED Fred Pool Jr. TITLE P.E. DATE 6-9-81

**NEW-TEX
LAB**
P. O. BOX 1181
MOBBS, N.M. 88240

CERTIFICATE OF ANALYSIS

No. _____
Run No. _____
Date of Run _____
Date Secured _____

A Sample of _____
Secured from _____
At _____
Sampling conditions _____
Press _____
Temp. _____
Secured by _____
Time _____
Date _____

FRACTIONAL ANALYSIS

Percentage Composition

	MOL %	LIQ. %	G.P.M.
Carbon Dioxide			
Air			
Nitrogen	1.236		
Oxygen			
Hydrogen sulfide			
Hydrogen			
Methane	88.610		
Ethane	1.013	1.073	
Propane	1.187	.326	
Butanes			
Iso-Butane	.309	.063	
N-Butane	.436	.137	
Pentanes			
Iso-Pentane	.135	.040	
N-Pentane	.163	.059	
Hexanes	.112	.053	
Heptanes	.028	.133	
Octanes			
TOTAL	100.000	1.909	

Calc. Sp. Gr. _____
Calc. A.P.I. _____
Calc. Vapor Press. _____ PSIA
Sp. Gr. _____
Mol. Wt. _____

LIQUID CONTENT (GAL/MCF)

Propane Calc. G.P.M. .326
Butanes Calc. G.P.M. .205
Pentanes Plus. G.P.M. .300
Ethane Calc. G.P.M. 1.078
RVP Gasoline G.P.M. _____
B.T.U./Cu. Ft. @ 14.696 P.S.I.A.
Dry Basis 1056
Wet Basis 1038
Sulfur Analysis by Titration
Gr./100 Cu. Ft. _____
Hydrogen Sulfide _____
Mercaptans _____
Sulfides _____
Residual Sulfur _____
Total Sulfur _____

Run by George Simpson Checked by _____ Approved by _____

Additional Data and Remarks

RECEIVED

JUN 19 1981

O. C. D.
ARTESIA, OFFICE

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED
JUN 11 1981

JUN 11 1981

<input checked="" type="checkbox"/> Initial FOUR POINT Annual				<input type="checkbox"/> Special: MAY 9, 1981				O. G. P. D. ASTORIA OFFICE			
Company: FRED POOL Producing Co.				Location: AIR NEW WELL							
Pool: WILD CAT				Formation: PENN				Unit: B			
Completion Date: 5-9-81		Total Depth: 5,283 6263		Plug hole TD: 6,257		Elevation: 3861 KB		Name of Lease Owner: CAMEL State			
Casing Size: 4.5	ID: 10.5	Set At: 4.052	Set At: 6,257	Perforations: From 6,154 To 6,164		Well No.: 18					
Tubing Size: 2.375	ID: 4.7	Set At: 1.995	Set At: 5,020	Perforations: From OPEN ENDED		Unit: F 7		Rod: 95	Pipe: 27E		
Type Well - Single - Production - G.G. or C.O. Multiple				Flocker Set At: 6,020				County: CHAVES			
Producing Time: TUBING		Reservoir Temp. °F: 124 @ 6,159'		Mean Annual Temp. °F: 60		Baro. Press. - P ₀ : 13.2		State: NEW MEXICO			
L: 6,159	H: 5,159	G ₀ : .6304	% CO ₂ : .177	% N ₂ : .4236	% H ₂ S: 0	Filler:	Meter Run: 4.0	Type: FLANGE			

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
NO.	Flow Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. in. H ₂ O	Temp. °F	Press. p.s.i.g.	Temp. °F	B. H. P. p.s.i.g.	Temp. °F	
SI							1,997	60	2,365		35 HOUR
1.	4	X	2.25	440.	3.0	63	1,947	64	2,321		1
2.	4	X	2.25	445.	7.0	74	1,785	68	2,149		2
3.	4	X	2.25	465.	11.5	82	1,559	69	1,887		3
4.	4	X	2.25	410	21.5	86	1,246	70	1,566		4
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compens. Factor, F _{sp}	Rate of Flow Q, Mhd
1	26.3	36.87	543.2	.9786	1.2599	1.0370	1,240.
2	26.3	56.63	548.2	.9868	1.2599	1.0386	1,923.
3	26.3	74.16	478.2	.9795	1.2599	1.0386	2,500.
4	26.3	95.39	423.2	.9559	1.2599	1.0331	3,786.
5							

NO.	B	Temp. °R	T _g	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1.	.68	543	1.49	.930			.63		671	364
2.	.68	534	1.47	.927						
3.	.71	542	1.49	.927						
4.	.63	546	1.50	.937						
5.										

NO.	F ₁ ²	P _w	P _w ²	P _e ² - P _w ²	(1) $\frac{P_e^2}{P_e^2 - P_w^2} =$	(2) $\left[\frac{P_e^2}{P_e^2 - P_w^2} \right]^n =$
1	1,961.2	3846.1	195		1.7269	1.3141
2	1,805.3	3259.0	782			
3	1,590.4	2529.4	1,512			
4	1,304.0	1700.5	2,340			
5						

Absolute Open Flow: 4,186.8	Mhd @ 15.025	Angle of Slope: 63.4	Slope, n: .5
------------------------------------	--------------	-----------------------------	---------------------

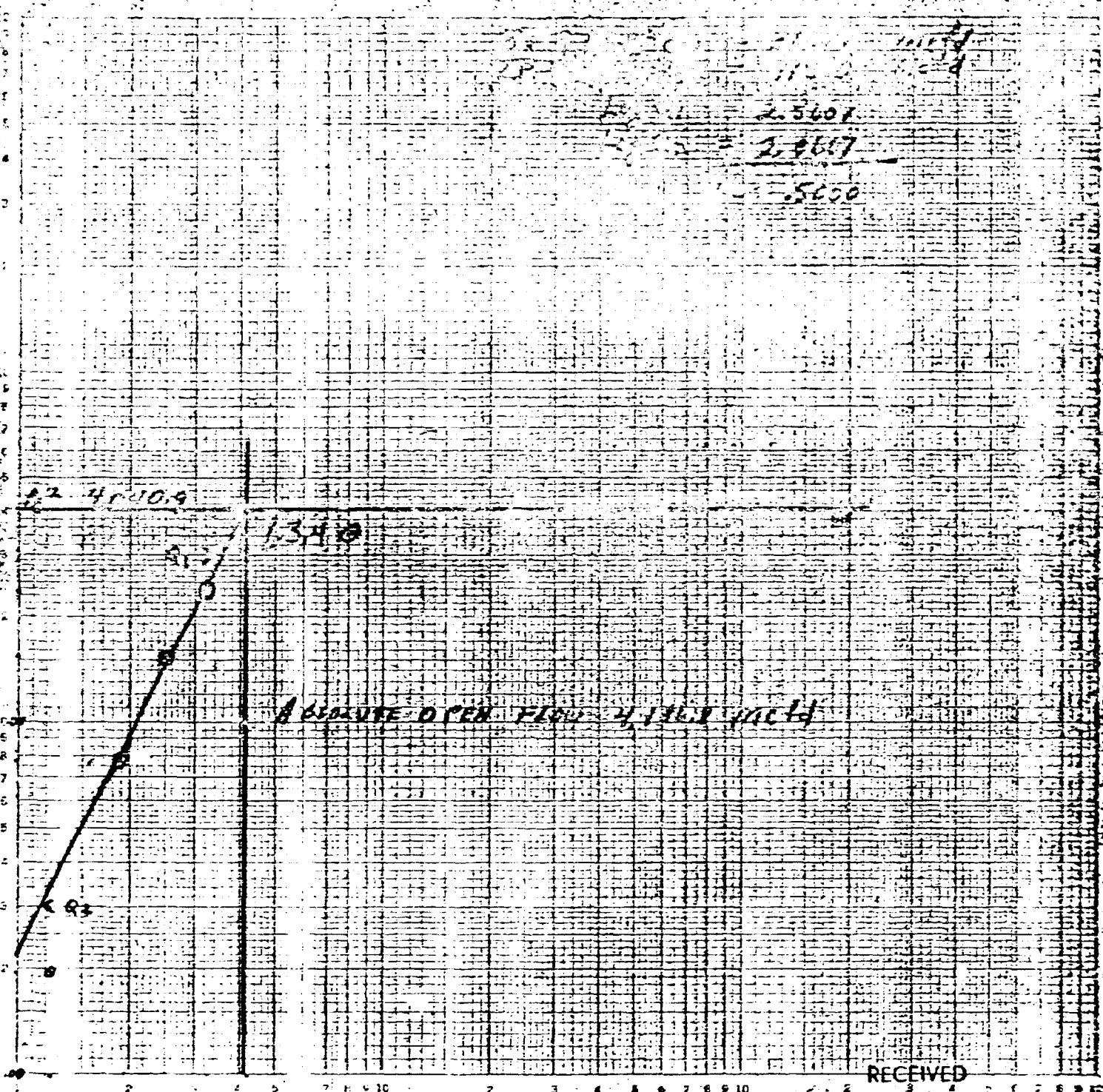
Remarks: **KNOWN BOTTOM HOLE PRESSURES MEASURED WITH AMERADA BOMBS.**

Approved by: Don Bennett	Conducted By: Don Bennett	Calculated By: WOHLFORD & JENKENS	Checked By:
---------------------------------	----------------------------------	--	-------------

Unit B, Sec 7, Twp 9S, R. 27E
 Chaves County, New Mexico

PC-102 46.1103

K.E. LOGARITHMIC 3 X 3 CYCLES
 KUTTEL & ESSER CO. HAWAII



2.5601
 2.9607
 5000

RECEIVED

Q mfd

JUN 19 1981

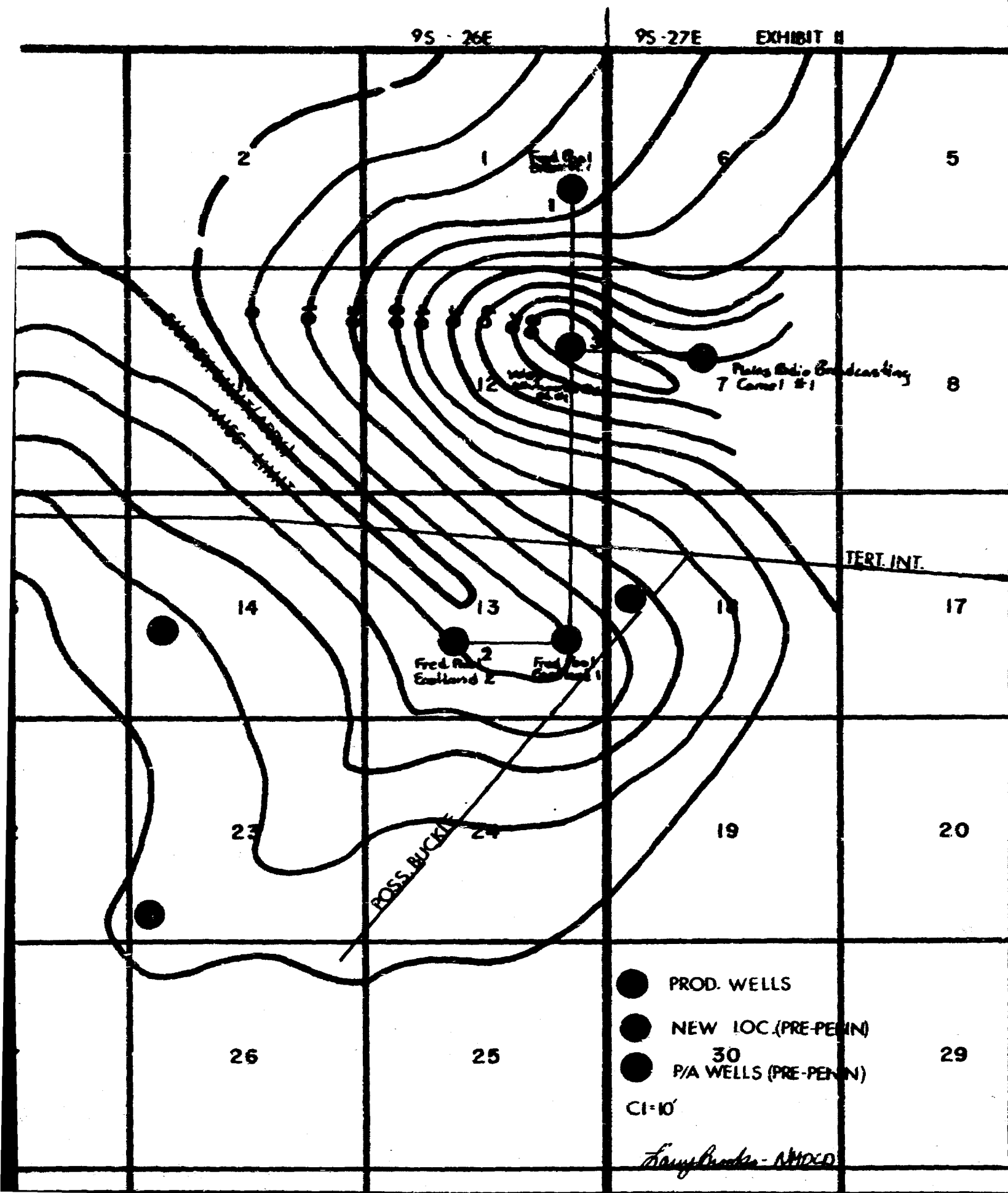
O.C.D.
 ARTESIA, OFFICE

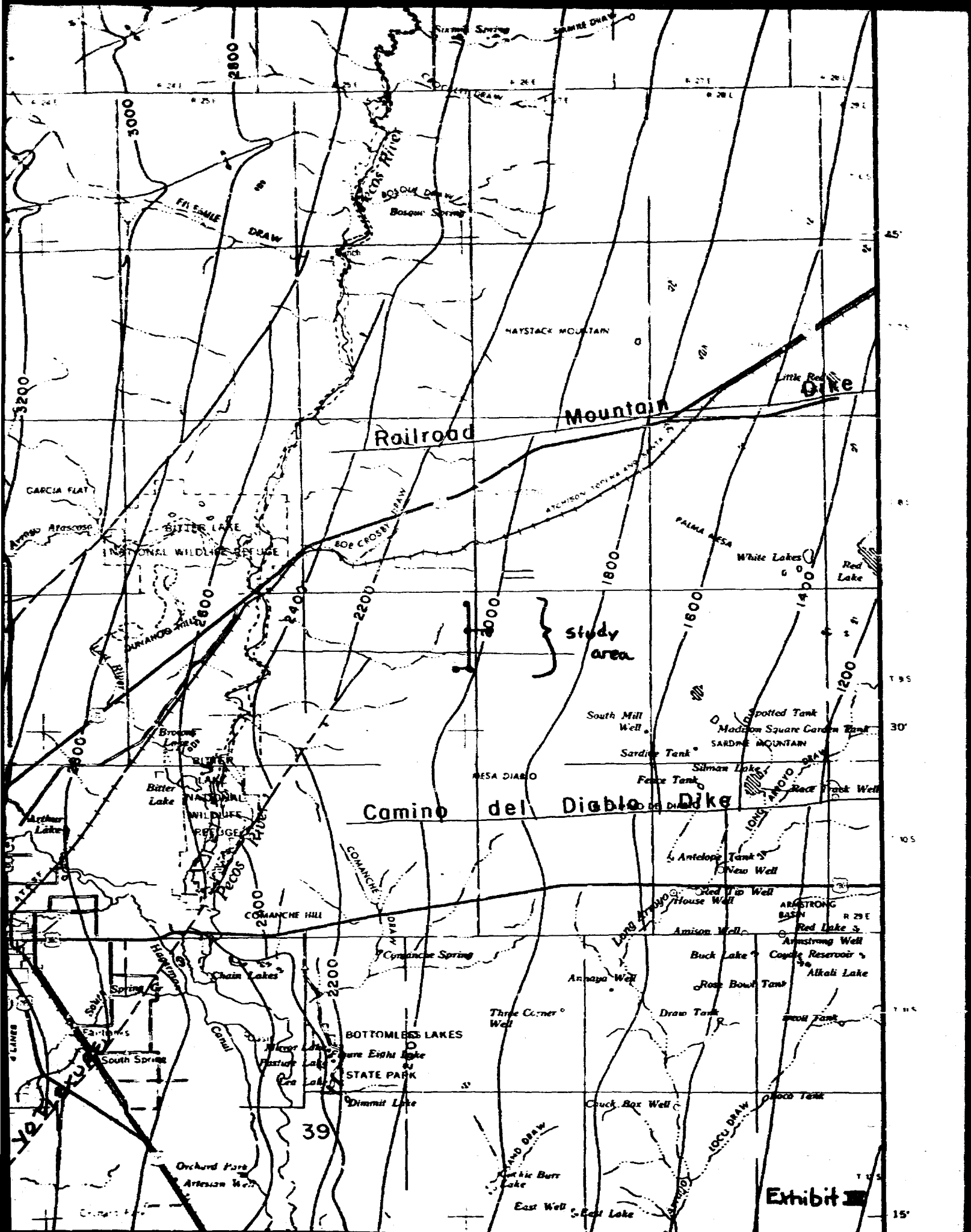
FOOR RANCH PRE-PERMIAN GAS POOL EXHIBITS

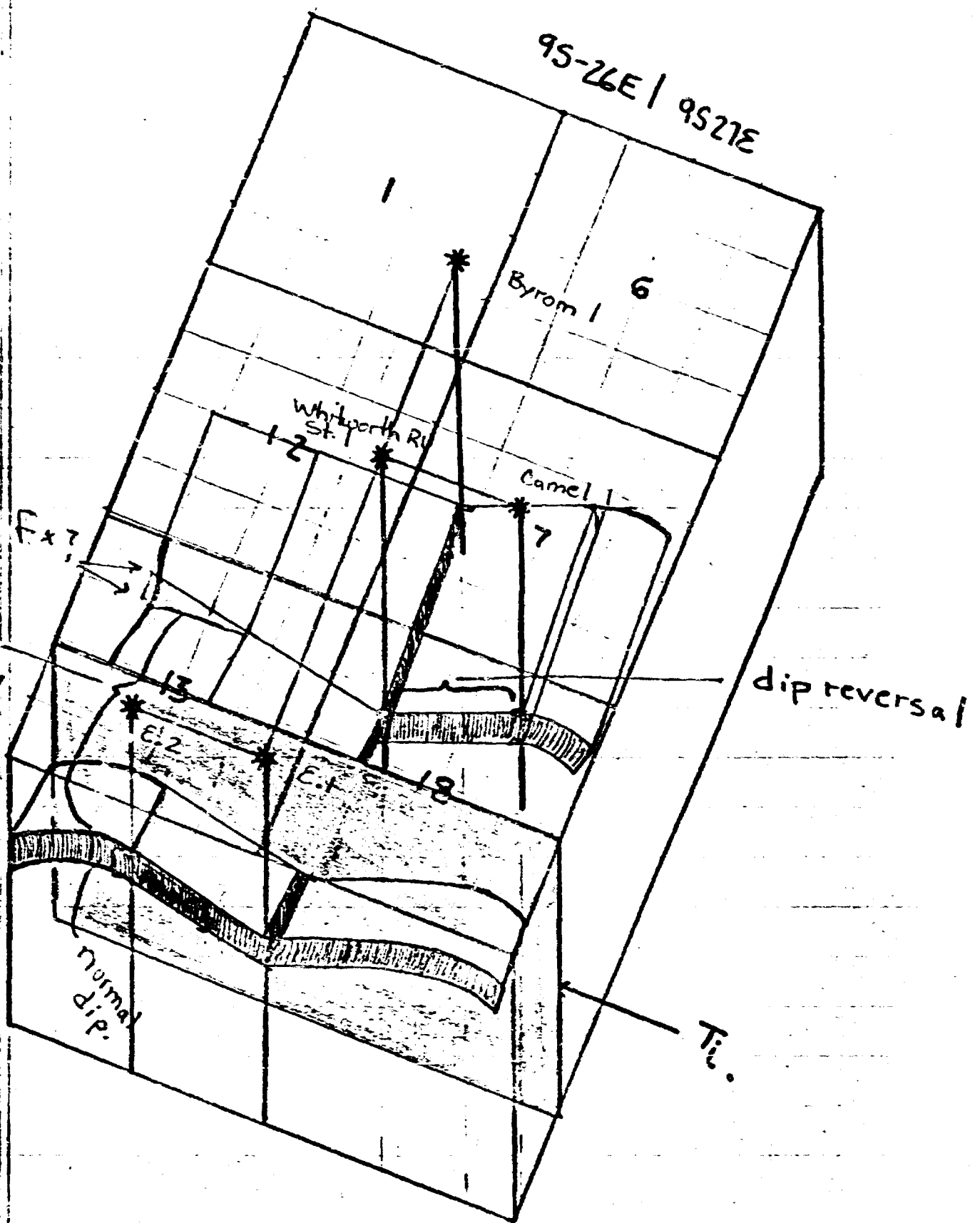
- Exhibit II Isopach on the Mississippian:
Showing the Western limit of stratigraphic
thickness, and probable Siluro/Devonian
pinch-out.
- Exhibit III Regional Plat showing 16 wells drilled to pre-Permian
formations, in which only one pre-Permian show was
reported but was TSTM, and the zone P&A. Included are
the five new completions which are productive in the
Basal Penn and L. Paleozoic.
- Exhibit IV Tectonic Map of the Pecos Country
V.C. Kelley 1971
- In closet { Exhibit V Regional Cross Section of the Abo and L. Paleozoic
correlations prepared by:
Jim Mason
Yates Petroleum Corp.
- Exhibit VI Cross Sections showing the truncation and flexure of
L. Paleozoic Formations. Included are the perforated
intervals, and their respective place within the
formations.
- Exhibit VII Completion, Gas Analysis, Back Pressure Data

Prepared by Larry Brooks
NMOCB

EXHIBIT A







L 6408

007 : 81931

5. 9008 08 0000 0000

33X 34

2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 2680, 2681, 26

Fred Pool Operating Co.

[illegible]

Box 1300 Clovis Star Rt. Roswell, NM

4.1.3.1. *Chlorophyll a*

ONLY 1000 R 1 LOCATED 650 FEET FROM THE E LATER 1950 FEET FROM

Page 5 of 11

6-22-81	9-26-81	10-4-81	3682 38	3882
---------	---------	---------	---------	------

64 90	11447		1960-64 90	0-196
-------	-------	--	------------	-------

25. From any interval(s) of this collection - Top, Bottom, Zero

Pennsylvanian, 6204-6228

26. Type-Like and Class-Like Mon

CNL FDC, DLL MICRO SFL

YES

It Was Well Cooled

No

29. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB. FT.	DEPTH SET	HOLE SIZE	CEMENTING P-CORD	AMOUNT PULLED
	26.4	1960	10"	65sx, 1" from 80'	1" Circ.
	10.5	6447	7 7/8	200sx, 35/65 POZ 2%	CACL

29. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE 2 3/8	DEPTH SET 6130	PACKER SET 6130
------	-----	--------	--------------	--------	---------------	-------------------	--------------------

31. Perforation Record (Interval, size and number)

6204-6228 Perforations
2 shot per ft.

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
6204-6228	PERFORATED 5000 gals

PERFORATED 5000 gals and
Noted ID-2
a comp. Book
SI

33. PRODUCTION

Date First Production 10-5-81	Production Method (Flowing, gas lift, pumping - Size and type pump) Flowing
----------------------------------	--

Well Status (Prod. or Shut-in) **Shut-in** 11-20-76

Date of Test 10-1-81	Hours Tested 24	Choke Size Open	Prod'n. For Test Period →	Oil - Bbl. None	Gas - MCF 250	Water - Bbl. None	Gas-Oil Ratio -----
Flow Tubing Press. 1700	Casing Pressure 500	Calculated 24- Hour Rate →	Oil - Bbl. None	Gas - MCF ACF 4144 250	Water - Bbl. None	Oil Gravity - API (Corr.) None	

24. Disposition of Gas: (Sold, used for fuel, vented, etc.)

Test Witnessed By

Fred Pool Jr..

35. List of Attachments

36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.

SIGNED

TITLE President

DATE 107-81

**NEW-TEX
LAB**

P. O. BOX 1181
MORRIS, N.M. 88240

No. 1767
Run No. _____
Date of Run 10-9-61
Date Shipped _____

CERTIFICATE OF ANALYSIS

A Sample of Fred Pool Byron State Well #1
Secured from Bennett-Cathey
At Box 787 Secured by _____
Artesia, NM 88210 Time _____ Date _____
Sampling conditions _____ Press _____
Temp _____

FRACTIONAL ANALYSIS

Percentage Composition

	MOL %	LIQ. %	G.P.M.
Carbon Dioxide	.160		
Air			
Nitrogen	3.422		
Oxygen			
Hydrogen sulfide			
Hydrogen			
Methane	90.506		
Ethane	3.651		.974
Propane	.989		.271
Butanes			
Iso-Butane	.165		.054
N-Butane	.338		.106
Pentanes			
Iso-Pentane	.103		.038
N-Pentane	.122		.044
Hexanes	.114		.047
Heptanes	.430		.198
Octanes			
TOTAL	100.000		1.732

Calc. Sp. Gr. 0.6224
Calc. A.P.I. _____
Calc. Vapor Press. _____ P.S.I.
Sp. Gr. _____
Mol. Wt. 18.68

LIQUID CONTENT (GAL/MCF)

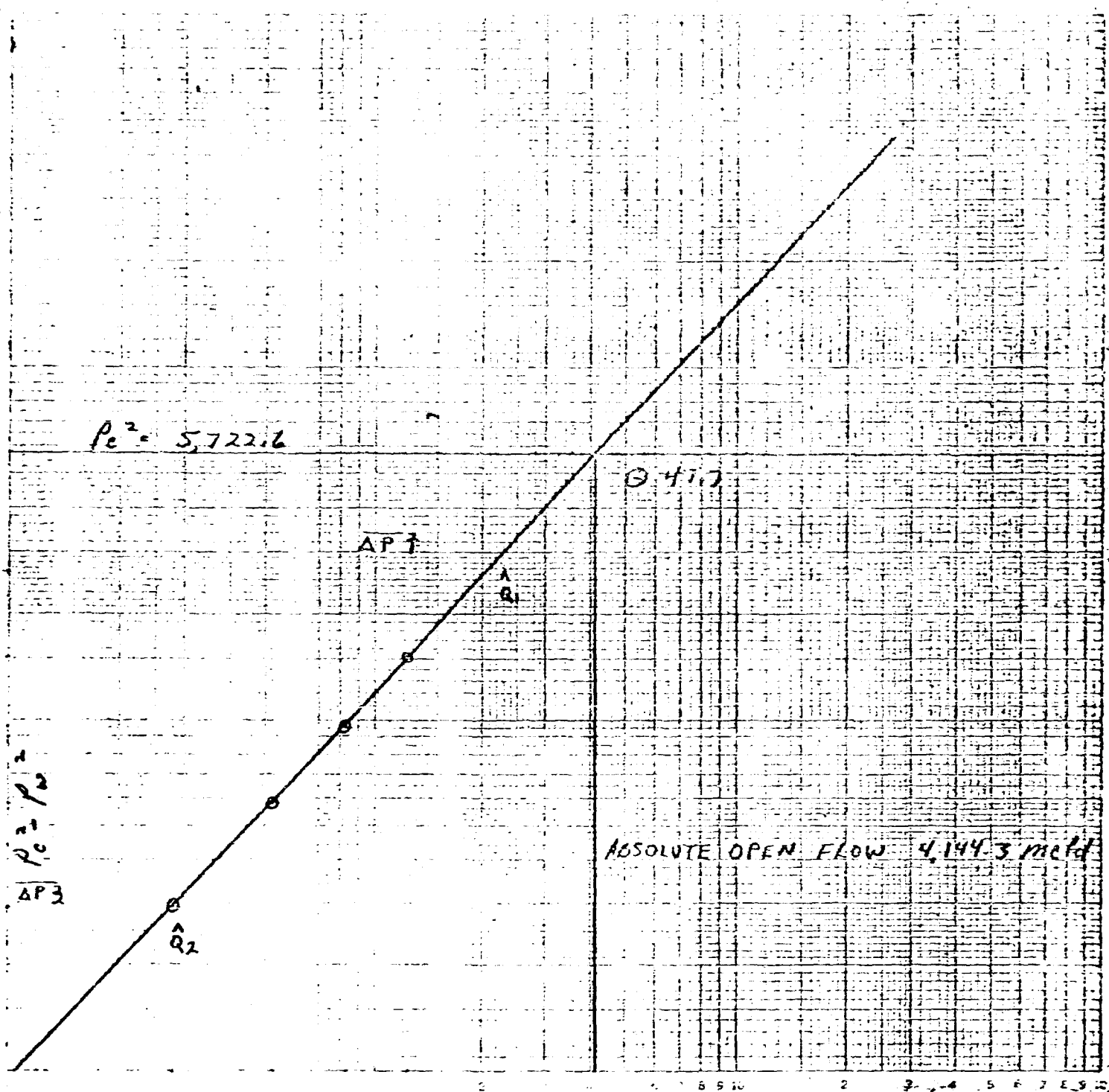
Propane Calc. G.P.M. .271
Butanes Calc. G.P.M. .160
Pentanes Plus. G.P.M. .327
Ethane Calc. G.P.M. .974
RVP Gasoline G.P.M. _____
B.T.U./Cu. Ft. @ 14.696 P.S.I.A.
Dry Basis 1058
Wet Basis 1039
Sulfur Analysis by Titration
Gr./100 Cu. Ft. _____
Hydrogen Sulfide _____
Mercaptans _____
Sulfides _____
Residual Sulfur _____
Total Sulfur _____

Run by R H Hamilton Checked by Deane Simpson Approved by [Signature]

Additional Data and Remarks

467403

W. 4 S, Sec 9, Twp 26 S, Rge 10 E



$$\frac{\Delta P}{\Delta P} = \frac{P_c^2 - P_w^2}{P_c^2 - P_w^2} = \frac{3,000}{300}$$

$$Q_1 = 2,315 \text{ mcf/d}$$

$$Q_2 = 285 \text{ mcf/d}$$

Q mcf/d

$$\log Q_1 = 3.3645$$

$$\log Q_2 = 2.4548$$

$$n = .9097$$

NO. OF COPIES RECEIVED		NEW MEXICO OIL CONSERVATION COMMISSION WELL COMPLETION OR RECOMPLETION REPORT AND LOG		DATE OF REPORT NOV 13 1981	
SANTA FE FILE				L 6773	
U.S.S.S.					
LAND OFFICE					
OPERATOR					
TYPE OF WELL					
TYPE OF COMPLETION		OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> CHL <input type="checkbox"/>		NOV 13 1981	
WELL <input checked="" type="checkbox"/> AREA <input type="checkbox"/> FIELD <input type="checkbox"/> PLUG BACK <input type="checkbox"/> REPAIR <input type="checkbox"/>		OTHER O.C.D.		ARTISIA, OFFICE	
Fred Pool Operating Co. ✓					
Clovis Star Rt. Box 1300, Roswell, N.M. 88201					
WELL NO.		660		1980	
N 13 9S 26E				Chaves	
6-30-81		8-31-81		9-30-81	
6204		6144		3816 G1	
6072-6082				3816	
Spectralec, CNFD, Micro-SF1					
Casing Record (Report all strings set in well)					
Casing Size	Weight Lb./Ft.	Depth Set	Hole Size	Cementing Record	Amount Pulled
13 3/8	48#	318	17 1/2	425 sx Cl C 2% CaCl	circulate
8 5/8	24#	1430	12 1/4	550 sx lite poz, 1" from surface	420 to
5 1/2	17#	6190	7 7/8	two stages, 450 sx 35/65 poz;	
				175 sx 35/65 poz	
Line Record			Tubing Record		
Size	Top	Bottom	Sacks Cement	Screen	Size
					2 3/8
					6017
					6017
31. Production Testers (Internal, size and number)			32. Acid, Shot, Fracture, Cement Squeeze, Etc.		
6072-6082 22 holes			Depth Interval		
			6072-82		
			Amount and Kind Material Used		
			500 gals acid		
			SF 2100 gals + 32500 # 20-22		
33. Production					
Date of Production		Production Method (Flow line, gas lift, pumping - Size and type pump)		Well Status (Prod. or Shut-in)	
9-23-81		flowing		shut in	
Flow Test Pressure	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.
1977	2364	0	0	631.80	0
34. Disposition of Gas (Sold, used for fuel, vented, etc.)		Test Witnessed By			
sold		Fred Pool, Jr.			
35. List of Attachments					
logs					
36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.					
SIGNED		TITLE		DATE	
Fred Pool		Secretary		10-7-81	

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

OCT 14 1981

Type Test <input checked="" type="checkbox"/> Initial FOUR POINT <input type="checkbox"/> Annual <input type="checkbox"/> Special		Test Date 9-29-81		660 FEO. C. D.									
Company FRED POOL, <i>operating Co.</i>		Location AIR NEW WELL		ARTESIA, OFFICE									
Well <i>W-204T and 205</i>		Production PENNSYLVANIA		1980 FNL									
Com. Date 9-30-81		Total Depth 6204		Unit H									
Perforations From 6072 To 6082		Elevation 3825 KB		From or Lease Name EASTLAND STATE									
Well No. 1		Perforations From OPEN To ENDED		Well No. 1									
Type well - Single - Production - G.C. or G.C. Multiple SINGLE		Packer Set At 6017		County CHAVES									
Packer Temp. °F 118		Mean Annual Temp. °F 60		State NEW MEXICO									
TUBING 6077		6077		0.6322									
CO ₂ 0.532		N ₂ 1.572		S H ₂ S									
Flux 4"		Flange		Flange									
FLOW DATA													
NO.	Flow Line Size	X	Orifice Size	Press. P.S.I.G.	Diff. h _w	Temp. °F	Press. P.S.I.G.	Temp. °F	B.H.P. P.S.I.G.	Temp. °F	Duration of Flow		
1	4"	X	1"	500	3.0	99	1714	80	2053		72 HRS.		
2	4"	X	1"	500	5.0	96	1606	75	1916		1		
3	4"	X	1"	500	7.0	98	1377	70	1693		1		
4	4"	X	1"	500	11.0	90	1151	71	1416		1		
5													
RATE OF FLOW CALCULATIONS													
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _L	Gravity Factor F _g	Super. Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd						
1	4.8740	39.24	513.2	.9645	1.2579	1.0358	240.						
2	4.8740	50.66	513.2	.9671	1.2579	1.0370	311.						
3	4.8740	59.94	513.2	.9653	1.2579	1.0370	368.						
4	4.8740	75.13	513.2	.9723	1.2579	1.0386	465.						
5													
NO.	R _i	Temp. °R	T _i	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.								
1	.77	559	1.55	.932	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.								
2	.77	556	1.54	.930	Specific Gravity Separator Gas .6320 X X X X X X X X								
3	.77	558	1.54	.930	Specific Gravity Flowing Fluid X X X X X .6320								
4	.77	550	1.52	.927	Critical Pressure 671 P.S.I.A. P.S.I.A.								
5					Critical Temperature 361 R R								
P ₁ 2377.2 P ₂ 5651.1													
NO.	P ₁ ²	P _w	P ₂ ²	P ₂ ² - P _w ²	(1) $\frac{P_c^2}{P_2^2 - P_w^2} = 1.5663$								
1		2066.2	4269.2	1382	(2) $\left[\frac{P_c^2}{P_2^2 - P_w^2} \right]^n = 1.3587$								
2		1929.2	3721.8	1929									
3		1706.2	2911.1	2740									
4		1429.2	2042.6	3608	AOF = 0 $\left[\frac{P_c^2}{P_2^2 - P_w^2} \right]^n = 631.8$								
5													
Absolute Open Flow 632				Mcf @ 15.025				Angle of Slope @ 55.7		Slope, n .6832			
Remarks BOTTOM HOLE PRESSURE MEASURED WITH AMERADA PRESSURE ELEMENTS.													
Approved By Division				Conducted By: DON BENNETT				Calculated By: WOHLFORD & JENKINS				Checked By:	

CERTIFICATE OF ANALYSIS

A Sample of
Secured from
At

Fred Pool
Bennett-Cathey
Box 787
Artesia, NM 88210

Eastland State #1

Secured by

Time

Date

Sampling conditions

Press

Temp

FRACTIONAL ANALYSIS

Percentage Composition

MOL % LIQ. % G.P.M.

Carbon Dioxide

.532

Air

Nitrogen

1.572

Oxygen

Hydrogen sulfide

Hydrogen

Methane

90.029

Ethane

4.724

1.260

Propane

1.680

.461

Butanes

Iso Butane

.257

.084

N-Butane

.470

.148

Pentanes

Iso Pentane

.148

.054

N-Pentane

.160

.058

Hexanes

.116

.048

Heptanes

.312

.144

Octanes

TOTAL

100.000

2.257

Calc. Sp. Gr. 0.6322

Calc. A.P.I.

Calc. Vapor Press.

P.S.I.A.

Sp. Gr.

Mol. Wt.

18.33

LIQUID CONTENT (GAL/MCF)

Propane Calc. G.P.M.

.461

Butanes Calc. G.P.M.

.232

Pentanes Plus. G.P.M.

.304

Ethane Calc. G.P.M.

1.260

RVP Gasoline G.P.M.

B.T.U./Cu. Ft. @ 14.696 P.S.I.A.

Dry Basis

1094

Wet Basis

1075

Sulfur Analysis by Titration

Gr./100 Cu. Ft.

Hydrogen Sulfide

Mercaptans

Sulfides

Residual Sulfur

Total Sulfur

Run by

R H Hamilton

Checked by

Deane Simpson

Approved by

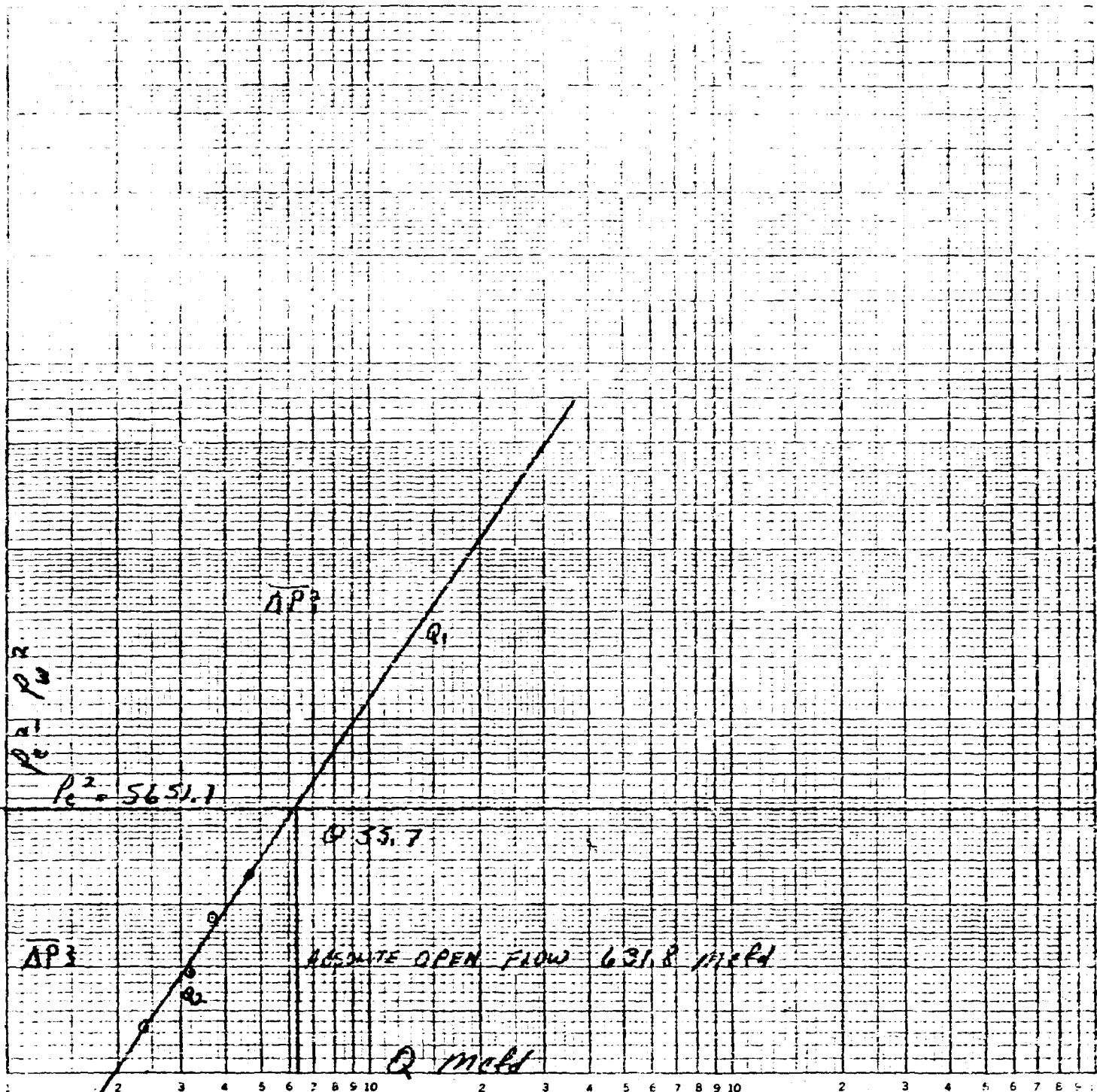
Deane Simpson

Additional Data and Remarks

FRED POOL JR
 FIRSTLAND STATE Well No. 1
 Unit H, Sec 13, Twp 9S, R. 26E
 Charles County, Maryland
 September 30, 1981

46 7403

ROE CONSULTING & SERVICES
 KEUFFEL & ESSER CO. MADE IN U.S.A.



$$\overline{\Delta P}_1 \quad P_c^2 - P_w^2 = 20,000$$

$$\overline{\Delta P}_2 \quad P_c^2 - P_w^2 = 2000$$

$$Q_1 = 1490.0 \text{ mld}$$

$$Q_2 = 309.0 \text{ mld}$$

$$\log Q_1 = 3.1732$$

$$\log Q_2 = 2.4900$$

$$N = .6832$$

NEW MEXICO OIL CONSERVATION COMMISSION
WELL COMPLETION OR RECOMPLETION REPORT AND LOG

DATE OF REPORT: 1-6713

FILE NO. 1-6713

U.S.G.S. 1-6713

LAND OFFICE 1-6713

OPERATOR 1-6713

1. TYPE OF WELL: ☒ OIL ☐ GAS ☐ OTHER

2. TYPE OF COMPLETION: ☒ PERFORATION ☐ OTHER

3. Name of Operator: Fred Pool Operating Company

4. Address: Clovis Star Route Box 1300, Roswell, New Mexico 88101

UNIT: West 13 9S 26E

DATE: 1980

DIRECTION: South

CHANGES: 1980

15. Date Spudded: 1/18/82

16. Date Completed: 2/09/82

17. Date Logged: 2/24/82

18. Log No.: 3829 G.L. / 3839 K.B.

19. Log Location: 3831

20. Total Depth: 6207

21. Depth to Top of Hole: 6163

22. Depth to Bottom of Hole: 6163

23. Depth to Top of Cement: 6163

24. Producing Interval(s): 6002-6050 / Fusselman

25. Directional Survey: Yes

26. Type Electric and Other Logs Run: CNL-FDC / DLL-MSFL s/ GR & Caliper

27. Was Well Cased: No

28. CASING RECORD (Report of ARTESIA OFFICE)

CASING SIZE	WEIGHT LBS. FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8"	54.5	272'	17 1/2"	300 sx "C"	
8 5/8"	24.0	1005'	12 1/2"	600 sx "C" 1" to surf w/	230 sx
5 1/2"	15.5	6206'	7 7/8"	700 sx "H"	

LINER RECORD					30.	
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH
					2 3/8"	59

31. Perforation Record (Interval, size and number): 6002' - 6050'

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.: 36 shots, .38" Entry

33. PRODUCTION

Date First Production: 2/24/82

Production Method (Flowing, gas lift, pumping - Size and type pump): Flowing

Well Status (Prod. or Shut-in): S.I.

Date of Test: 3/2/82

Hours Tested: 4 hrs.

Choke Size: 2 X 1.25

Prod'n. Per Test Period: 0

Oil - Bbl.: 0

Gas - MCF: 243.5

Water - Bbl.: 0

Gas - Oil Ratio: N.A.

Flow Tubing Press.: 1886

Casing Pressure: 2010

Calculated 24-Hour Rate: 0

Oil - Bbl.: 0

Gas - MCF: 8882

Water - Bbl.: 0

Oil Gravity - API (Corr.): N.A.

34. Disposition of Gas (Sold, used for fuel, vented, etc.): Vented During Test

Test Witnessed By: Fred F. Pool III

35. List of Attachments: Logs, 4-pt. test, Deviation Surveys previously sent to O.C.D.

36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.

SIGNED: Fred F. Pool III

TITLE: Petroleum Engineer

DATE: May 19, 1982

MAY 24 1960

[3] Tunnel		[1] Aerial		[1] Dredge		Date Rec'd. 6/2/52	
Company FRED POOL <i>Operating Co.</i>				Location Air			
Fath <i>Island and Fuelburn</i>				Formation Fuelburn			
Completion Date 2-23-52		Total Depth 5206'		High Water 5163'		Location 3829 GL	
						County and State Eastland <i>State</i>	
Log Size 5 1/2		Vol. 16.5		Serial 5206		Well No. 2	
Log Size 2 5/8		Vol. 4.7		Serial 5034		Unit K	
				From 6002 To 6150		Sec. 13	
				From 4002 To 4200		Twp. 9E	
Type of Core Type of C.C. Multiple				Formation 5034		County Chaves	
Date Rec'd. 6-1-52				Date Rec'd. 6-1-52		State New Mexico	
Core No. 115		Core No. 5206		Core No. 17.5		Water Run Feet	
Core No. 0		Core No. 5206		Core No. 17.5		Feet 2"	

RATE OF FLOW CORRELATIONS							
NO.	Coefficient [24 Feet]	$\sqrt{h_w F_m}$	Pressure P_m	Flow Temp. Factor Ft.	Gravity Factor Fg	Surface Coefficient Factor, Fsp	Rate of Flow O. Mfd.
1	36.2			.998	1.258	1.162	696
2	36.2			.994	1.258	1.163	1105
3	36.2			.994	1.258	1.165	1687
4	36.2			.995	1.258	1.166	2377
5							

NO.	n	Temp. °H	d	z	Gas Liquid Equilibrium Data	Method
1	3.31	570	1.53	.809	A.P.I. Gravity of Liquid Hydrocarbons	1.53
2	3.27	570	1.53	.809	Specific Gravity of Natural Gas	XXXXXXXXXX
3	3.22	570	1.53	.810	Specific Gravity, Heating Value	XXXXXX
4	2.16	570	1.53	.815	Critical Pressure 670	P.S.I.A. P.S.I.A.
5					Critical Temperature 373	°R °R

NO	P_i	P_i^2	$P_i^2 - P_i$
1	2327	5415	93.48
2	2296	5272	236.79
3	2262	5117	391.00
4	2200	4840	568.00
5			

$$(i) \frac{P_i^2}{P_i^2 - P_i} = 8.25$$

$$\text{Ans} = 0 \quad \left[\frac{P_i^2}{P_i^2 - P_i} \right]^n = 8982$$

$$(ii) \left[\frac{P_i^2}{P_i^2 - P_i} \right]^n = 3.74$$

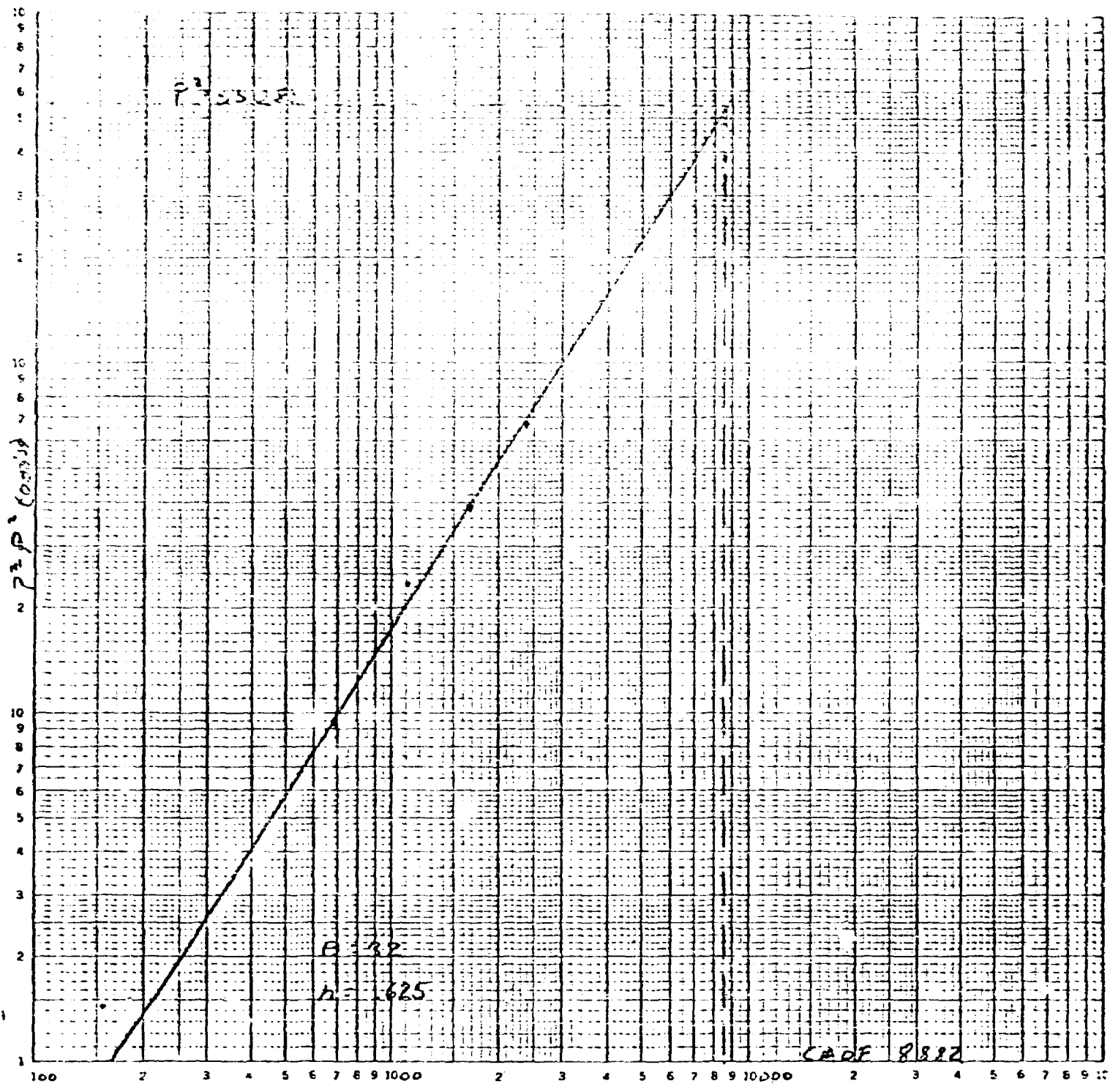
Altitude (Feet)	8862	Height (Feet)	Angle of Slope	32	Station #	625
Remarks: Bottom hole pressures recorded with Amerade type gauge						
Approved by (Signature)	Checked by:	Collected by:	Checked by:			
	Keltic Services	Mike Kelly				

RED POOL Jr

EASTLAND #2

46 7400

K-E LOGANTHMIC 3 X 3 CYCLES
KEUFFEL & ESSER CO. MADE IN U.S.A.



Q.
MSCFPD

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special					Test Date: 3-25-82		MAY 26 1982	
Company: Yates Petroleum Corporation					Connection: Transwestern Pipeline Company		O. C. D. ARTESIA, OFFICE	
Pool: Wildcat Permian-Penn					Formation: Mississippian		Unit: L-6772	
Completion Date: 1-24-82		Total Depth: 6710		Plug Back TD: 6549		Casing Top: 3850.6 KB 3842.6 GR		Form or Lease Name: Whitworth RU State
Csg. Size: 4-1/2"	Wt.: 10.5#	d: 4.052	Set At: 6640	Perforations: From 6124 To 6307		Well No.: 1		
Tbg. Size: 2-7/8"	Wt.: 6.5#	d: 2.441	Set At: 6075	Perforations: From - To -		Unit: H 12 9S 26E		
Type Well - Single - Provenhead - G.O. or G.O. Multiple Single					Packer Set At: 6075		County: Chaves	
Producing thru Tubing		Reservoir Temp. °F: 114 • 6215		Mean Annual Temp. °F: 60		Basic Press. - P _b : 13.2		State: New Mexico
L: 6075	H: 6075	G _g : 0.660	% CO ₂ : 5.04	% N ₂ : 3.96	% H ₂ S: 0	Prover: ---	Meter Run: 2"	Taps: Flange

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
1.	2.067 x 0.875			440	4	60	700	62			24 hrs
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super. Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	3.729	42.58	453.2	0.9981	1.231	1.040	203
2.							
3.							
4.							
5.							

NO.	R	Temp. °R	T _g	Z	Gas Liquid Hydrocarbon Ratio	Mcf/ubl.
1.	0.6625	520	1.4525	0.925	A.P.I. Gravity of Liquid Hydrocarbons	Deg.
2.					Specific Gravity Separator Gas	0.660
3.					Specific Gravity Flowing Fluid	X X X X X
4.					Critical Pressure	684 P.S.I.A.
5.					Critical Temperature	358 °R

$P_c = 1838.2$ $P_c^2 = 3379.0$		$(1) \frac{P_c^2}{P_e^2 - P_w^2} = 1.1774$		$(2) \left[\frac{P_e^2}{P_e^2 - P_w^2} \right]^n = 1.1774$	
NO.	P _e ²	P _w	P _e ²	P _e ² - P _w ²	
1	508.7		509.0	2870	
2					
3					
4					
5					

AOF = 0 $\left[\frac{P_e^2}{P_e^2 - P_w^2} \right]^n = 240$

Absolute Open Flow: 240 Mcfd @ 15.025 Angle of Slope: 1 Slope, n: 1

Remarks: Computed with only one flow rate because well loads up and dies.
Worksheet C122D attached.

Approved By Division	Conducted By: David Weaver	Calculated By: Albert R. Stall	Checked By:
----------------------	----------------------------	--------------------------------	-------------

YATES PETROLEUM CORP.

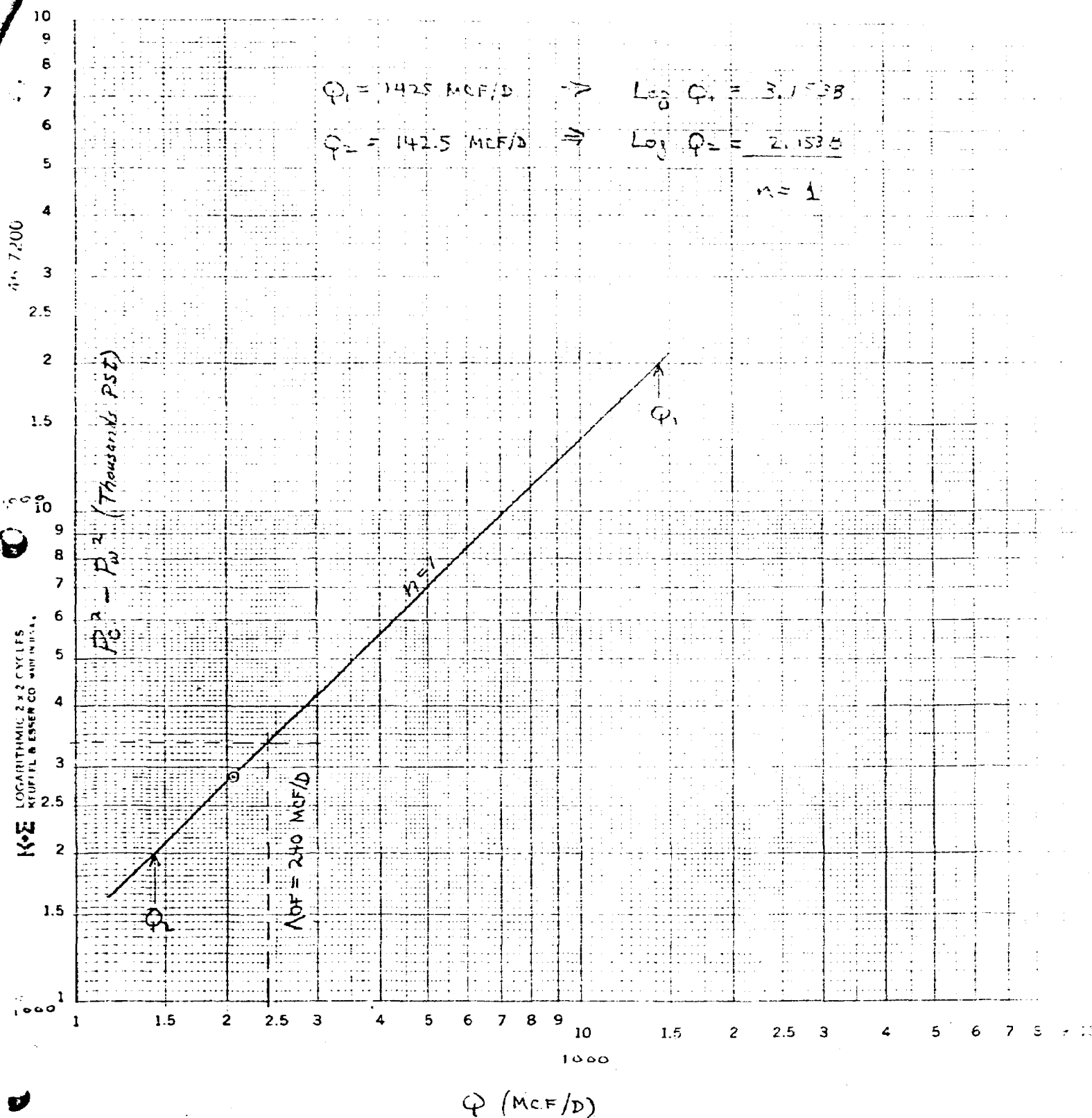
Whitworth RU State No. 1

Unit H, Sec. 12, T9S, R20E

$$Q_1 = 1425 \text{ MCF/D} \Rightarrow \log Q_1 = 3.1538$$

$$Q_2 = 142.5 \text{ MCF/D} \Rightarrow \log Q_2 = 2.1538$$

$$n = 1$$



BEFORE EXAMINER STAMETS
OIL CONSERVATION DIVISION

EXHIBIT NO. VII

CASE NO. 7634

Submitted by Lane Brooks

Hearing Date 8/4/82

Dockets Nos. 25-82 and 27-82 are tentatively set for August 18 and September 1, 1982. Applications for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: EXAMINER HEARING - WEDNESDAY - AUGUST 4, 1982
9 A.M. - NORMAN HALL, OIL CONSERVATION DIVISION
STATE LAND OFFICE BUILDING, SANTA FE, NEW MEXICO

The following cases will be heard before Richard L. Stamets, Examiner, or Daniel S. Mutter, Alternate Examiner:

CASE 7627: In the matter of the hearing called by the Oil Conservation Division on its own motion to permit Sandi Production, Inc., United States Fidelity and Guaranty Company and other interested parties to appear and show cause why the El Pozo Well No. 1 located in Unit L, Section 25, and the Pound Ranch C Well No. 14 located in Unit C, Section 14, both in Township 28 North, Range 1 East, Rio Arriba County, should should not be plugged and abandoned in accordance with a Division-approved plugging program.

CASE 7628: Application of Wiser Oil Company for an unorthodox well location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of a Fenrose-Skelly oil well to be drilled 1345 feet from the South line and 660 feet from the West line of Section 32, Township 21 South, Range 37 East, the NW/4 SW/4 of said Section 32 to be dedicated to the well.

CASE 7629: Application of Gulf Oil Corporation for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Yates and Seven Rivers formation in the open hole interval from 3169 feet to 3385 feet in its Arnott-Ramsay (WCT-E) Well No. 5, located in Unit E, Section 16, Township 25 South, Range 37 East, Jalmat Pool.

CASE 7630: Application of Ralph Nix for an oil treating plant permit, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority for the construction and operation of an oil treating plant for the purpose of treating and reclaiming sediment oil at a site in the SW/4 NE/4 of Section 18, Township 19 South, Range 26 East.

CASE 7631: Application of Harrion Oil & Gas Corporation for a non-standard proration unit, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks approval of a 160-acre non-standard proration unit comprising the N/2 SE/4 and SW/4 SE/4 of Section 5 and the NW/4 NE/4 of Section 8, Township 23 North, Range 6 West, Mageezi-Gallup Area.

CASE 7632: Application of Aztec Energy Corporation for a non-standard proration unit, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks approval of a 160-acre non-standard proration unit comprising the SE/4 SE/4 of Section 5, and the E/2 NE/4 and SW/4 NE/4 of Section 8, Township 23 North, Range 6 West, Mageezi-Gallup Area.

CASE 7458: (Continued from June 23, 1982, Examiner Hearing)

Application of Marks & Garner Production Company for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of salt water into the Bough C formation in the perforated interval from 9596 feet to 9616 feet in its Betenbough Well No. 2, located in Unit M of Section 12, Township 9 South, Range 35 East.

CASE 7620: (Continued from July 21, 1982, Examiner Hearing)

Application of Mesa Petroleum Company for compulsory pooling, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in all formations from the surface through the base of the Abo formation underlying the SW/4 of Section 8, Township 5 South, Range 25 East, to be dedicated to a well to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as operator of the well and a charge for risk involved in drilling said well.

CASE 7633: Application of T. H. McElvain, Jr. for compulsory pooling, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests from the surface through the base of the Abo formation underlying the SW/4 of Section 8, Township 5 South, Range 25 East, to be dedicated to a well to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as operator of the well and a charge for risk involved in drilling said well.

CASE 7634: In the matter of the hearing called by the Oil Conservation Division on its own motion for an order creating, abolishing, and extending certain pools in Chaves, Eddy, Lea, and Roosevelt Counties, New Mexico.

(a) CREATE a new pool in Eddy County, New Mexico, classified as a gas pool for Atoka production and designated as the West Indian Flats-Atoka Gas Pool. The discovery well is the Perry R. Bass Big Eddy Unit Well No. 79Y located in Unit J of Section 21, Township 21 South, Range 28 East, NMPM. Said pool would comprise:

TOWNSHIP 21 SOUTH, RANGE 28 EAST, NMPM
Section 21: E/2

(b) CREATE a new pool in Roosevelt County, New Mexico, classified as an oil pool for San Andres production and designated as the South Bluit-San Andres Pool. The discovery well is the Ike Lovelady, Inc. Lignum Well No. 1 located in Unit A of Section 35, Township 8 South, Range 37 East, NMPM. Said pool would comprise:

TOWNSHIP 8 SOUTH, RANGE 37 EAST, NMPM
Section 35: NE/4

(c) CREATE a new pool in Eddy County, New Mexico, classified as a gas pool for Permo-Pennsylvanian production and designated as the Boyd Permo-Pennsylvanian Gas Pool. The discovery well is Yates Petroleum Corporation Rio Pecos NE Federal Com Well No. 1 located in Unit F of Section 11, Township 19 South, Range 25 East, NMPM. Said pool would comprise:

TOWNSHIP 19 SOUTH, RANGE 25 EAST, NMPM
Section 2: E/2
Section 3: E/2
Section 11: N/2

(d) CREATE a new pool in Chaves County, New Mexico, classified as a gas pool for Pre-Permian production and designated as the Four Ranch Pre-Permian Gas Pool. The discovery well is Plains Radio Broadcasting Camel Well No. 1 located in Unit F of Section 7, Township 9 South, Range 27 East, NMPM. Said pool would comprise:

TOWNSHIP 9 SOUTH, RANGE 26 EAST, NMPM
Section 1: E/2
Section 12: E/2
Section 13: All

TOWNSHIP 9 SOUTH, RANGE 27 EAST, NMPM
Section 7: W/2
Section 18: W/2

(e) CREATE a new pool in Lea County, New Mexico, classified as a gas pool for Yates and Seven Rivers production and designated as the House Yates-Seven Rivers Gas Pool. The discovery well is the MCV Oil Corporation J. Wright Well No. 1 located in Unit D of Section 5, Township 20 South, Range 39 East, NMPM. Said pool would comprise:

TOWNSHIP 19 SOUTH, RANGE 39 EAST, NMPM
Section 31: SE/4
Section 32: SW/4

TOWNSHIP 20 SOUTH, RANGE 39 EAST, NMPM
Section 5: NW/4

(f) CREATE a new pool in Lea County, New Mexico, classified as an oil pool for Wolfcamp production and designated as the Pollock-Wolfcamp Pool. Further, to assign approximately 46,910 barrels of discovery allowable to the discovery well, the Reading and Bates Company Dickinson Cattle Company 33 Well No. 1 located in Unit M of Section 33, Township 14 South, Range 38 East, NMPM. Said pool would comprise:

TOWNSHIP 14 SOUTH, RANGE 38 EAST, NMPM
Section 33: SW/4

(g) CREATE a new pool in Lea County, New Mexico, classified as a gas pool for Wolfcamp production and designated as the West Red Hills-Wolfcamp Gas Pool. The discovery well is the BTA Oil Producers Mesa 8105 JV-P Well No. 1 located in Unit I of Section 1, Township 26 South, Range 32 East, NMPM. Said pool would comprise:

TOWNSHIP 26 SOUTH, RANGE 32 EAST, NMPM
Section 1: E/2

(h) CREATE a new pool in Lea County, New Mexico, classified as an oil pool for Abo production and designated as the Townsend-Abo Pool. The discovery well is the Charles B. Gillespie, Jr. Exxon Townsend Well No. 1 located in Unit B of Section 9, Township 16 South, Range 35 East, NMPM. Said pool would comprise:

TOWNSHIP 16 SOUTH, RANGE 35 EAST, NMPM
Section 9: NE/4

- (i) ABOLISH the East Tanneryhill-Cisco Pool in Roosevelt County, New Mexico, as heretofore classified, defined, and described:

TOWNSHIP 6 SOUTH, RANGE 34 EAST, N2PM
Section 8: SE/4

- (j) EXTEND the Bluit-San Andres Associated Pool in Roosevelt County, New Mexico, to include therein:

TOWNSHIP 8 SOUTH, RANGE 37 EAST, N2PM
Section 23: E/2

- (k) EXTEND the Carson-Morrow Gas Pool in Chaves County, New Mexico, to include therein:

TOWNSHIP 9 SOUTH, RANGE 31 EAST, N2PM
Section 3: S/2

- (l) EXTEND the Crow Flats-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 16 SOUTH, RANGE 28 EAST, N2PM
Section 31: W/2

- (m) EXTEND the Empire-Pennsylvania Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 18 SOUTH, RANGE 28 EAST, N2PM
Section 3: S/2

- (n) EXTEND the High Lonesome-Queen Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 16 SOUTH, RANGE 29 EAST, N2PM
Section 19: SE/4 NW/4

- (o) EXTEND the North Loving-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 23 SOUTH, RANGE 28 EAST, N2PM
Section 7: W/2
Section 18: All
Section 19: W/2
Section 30: W/2

- (p) EXTEND the West Madine-Blinabry Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 20 SOUTH, RANGE 38 EAST, N2PM
Section 5: NW/4
Section 8: SW/4

- (q) EXTEND the Lucas Slope-Abo Gas Pool in Chaves County, New Mexico, to include therein:

TOWNSHIP 4 SOUTH, RANGE 24 EAST, N2PM
Section 26: W/2

TOWNSHIP 5 SOUTH, RANGE 24 EAST, N2PM
Section 3: E/2

TOWNSHIP 6 SOUTH, RANGE 24 EAST, N2PM
Section 15: All
Section 16: All
Section 17: All
Section 18: E/2

TOWNSHIP 7 SOUTH, RANGE 26 EAST, N2PM
Section 27: All
Section 33: All
Section 34: All

TOWNSHIP 8 SOUTH, RANGE 25 EAST, N2PM
Section 13: S/2

TOWNSHIP 8 SOUTH, RANGE 26 EAST, N2PM
Section 3: All
Section 4: All
Section 5: All
Section 6: E/2

- (r) **EXTEND** the South Petersen-Pennsylvanian Associated Pool in Roosevelt County, New Mexico, to include therein:

TOWNSHIP 6 SOUTH, RANGE 34 EAST, N2PM
Section 7: S/2
Section 8: S/2

- (s) **EXTEND** the West Sawyer-San Andres Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 9 SOUTH, RANGE 37 EAST, N2PM
Section 32: SW/4

- (t) **EXTEND** the Square Lake Greyberg-San Andres Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 17 SOUTH, RANGE 30 EAST, N2PM
Section 11: S/2

- (u) **EXTEND** the Tomahawk-San Andres Pool in Chaves County, New Mexico, to include therein:

TOWNSHIP 7 SOUTH, RANGE 31 EAST, N2PM
Section 36: SE/4

TOWNSHIP 8 SOUTH, RANGE 31 EAST, N2PM
Section 1: N/2

- (v) **EXTEND** the Turkey Track-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 19 SOUTH, RANGE 29 EAST, N2PM
Section 3: N/2

- (w) **EXTEND** the Twin Lakes-San Andres Associated Pool in Chaves County, New Mexico, to include therein:

TOWNSHIP 9 SOUTH, RANGE 28 EAST, N2PM
Section 12: SE/4

TOWNSHIP 9 SOUTH, RANGE 29 EAST, N2PM
Section 18: N/2

- (x) **EXTEND** the Willow Lakes-Bone Spring Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 24 SOUTH, RANGE 28 EAST, N2PM
Section 32: N/2 N/2
Section 33: N/2 NW/4

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
DIVISION FOR THE PURPOSE OF
CONSIDERING:

JUL 29 1982

CASE NO. 7634
ORDER NO. A-2048

THE APPLICATION OF THE OIL CONSERVATION DIVISION UPON ITS OWN MOTION FOR AN ORDER CREATING, ASSIGNING A DISCOVERY ALLOWABLE, ABOLISHING, AND EXTENDING CERTAIN POOLS IN CHAVES, EDDY, LEA, AND ROOSEVELT COUNTIES, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9:00 a.m. August 4, 1982, at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this day of August, 1982, the Division Director having considered the testimony, the record, the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

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

(2) That there is need for the creation of a new pool in Eddy County, New Mexico, for the production of gas from the Atoka formation. Said pool to bear the designation of West Indian Flat-Atoka Gas Pool. Said West Indian Flat-Atoka Gas Pool was discovered by the Perry R. Bass Big Eddy Unit Well No. 79-Y located in Unit J of Section 21, Township 21 South, Range 28 East, NMPM. It was completed in the Atoka formation on April 8, 1982. The top of the perforations is at 11,182 feet.

(3) That there is need for the creation of a new pool in Roosevelt County, New Mexico, for the production of oil from the San Andres formation. Said pool to bear the designation of the South Bluit-San Andres Pool. Said South Bluit San Andres Pool was discovered by the Ike Lovelady, Inc. Lignum Well No. 1 located in Unit A of Section 35, Township 8 South, Range 37 East, NMPM. It was completed March 19, 1982, in the San Andres formation. The top of the perforations is at 4,808 feet.

(4) That there is need for the creation of a new pool in Eddy County, New Mexico, for the production of gas from the Canyon formation. Said pool to bear the designation of Boyd-Permo-Pennsylvanian Gas Pool. Said Boyd-Permo-Pennsylvanian Gas Pool was discovered by the Yates Petroleum Company Rio Penasco MF Federal Well No. 1 located in Unit F of Section 11, Township 19 South, Range 25 East, NMPM. It was completed in the Canyon formation on August 26, 1981. The top of the perforations is at 7,592 feet.

(5) That there is need for the creation of a new pool in Chaves County, New Mexico, for the production of gas from the Pre Permian formations. Said pool to bear the designation of Foor Ranch-Pre Permian Gas Pool. Said Foor Ranch-Pre Permian Gas Pool was discovered by the Plains Radio Broadcasting Company Camel Well No. 1 located in Unit F of Section 7, Township 9 South, Range 27 East, NMPM. It was completed May 9, 1981, in the Pennsylvanian formation. The top of the perforations is at 6,154 feet.

(6) That there is need for the creation of a new pool in Lea County, New Mexico, for the production of gas from the Seven Rivers formation. Said pool to bear the designation of House-Yates-Seven Rivers Gas Pool. Said House-Yates-Seven Rivers Gas Pool was discovered by the MGF Oil Corporation J. Wright Well No. 1 located in Unit D of Section 5, Township 20 South, Range 39 East, NMPM. It was completed March 30, 1982, in the Seven Rivers formation. The top of the perforations is at 3,004 feet.

(7) That there is need for the creation of a new pool in Lea County, New Mexico, for the production of oil from the Wolfcamp formation. Said pool to bear the designation of Pollock-Wolfcamp Pool. Further, that there is need for the assignment of a discovery allowable of 46,910 barrels to the discovery well the Reading and Bates Company Dickinson Cattle Company 33 Well No. 1 located in Unit N of Section 33, Township 14 South, Range 38 East, NMPM. It was completed April 29, 1982, in the Wolfcamp formation. The top of the perforations is at 9,404 feet.

(8) That there is need for the creation of a new pool in Lea County, New Mexico, for the production of gas from the Wolfcamp formation. Said pool to bear the designation of West Red Hills-Wolfcamp Gas Pool. Said West Red Hills-Wolfcamp Gas Pool was discovered by the BTA Oil Producers Mesa 8105 JV-P Well No. 1 located in Unit I of Section 1, Township 26 South, Range 32 East, NMPM. It was completed May 5, 1982, in the Wolfcamp formation. The top of the perforations is at 13,367 feet.

(9) That there is need for the creation of a new pool in Lea County, New Mexico, for the production of oil from the Abo formation. Said pool to bear the designation of Townsend-Abo Pool. Said Townsend-Abo Pool was discovered by the Charles B. Gillespie, Jr. Exxon Townsend Well No. 1 located in Unit B of Section 9, Township 16 South, Range 35 East, NMPM. It was completed September 25, 1981, in the Abo formation. The top of the perforations is at 8,716 feet.

(10) That there is need for the abolishment of the Tanneyhill-Cisco Pool in Roosevelt County, New Mexico, and productive acreage placed in the South Peterson-Pennsylvanian Associated Pool.

(11) That there is need for certain extensions to the Carson-Morrow Gas Pool, the Pecos Slope-Abo Gas Pool, the Tomahawk-San Andres Pool, and the Twin Lakes San Andres Associated Pool, all in Chaves County, New Mexico, and the Crow Flats-Morrow Gas Pool, the Empire-Pennsylvanian Gas Pool, the High Lonesome-Queen Pool, the North Loving-Morrow Gas Pool, the Square Lake-Grayburg-San Andres Pool, the Turkey Track-Morrow Gas Pool, and the Willow Lakes-Bone Spring Pool, all in Eddy County, New Mexico, and the West Nadine-Blinbry Pool and the West Sawyer-San Andres Pool, both in Lea County, New Mexico, and the Bluit-San Andres Associated Pool and South Peterson-Pennsylvanian Associated Pool, both in Roosevelt County, New Mexico.

IT IS THEREFORE ORDERED:

(a) That a new pool in Eddy County, New Mexico, classified as a gas pool for Atoka production is hereby created and designated as the West Indian Flats-Atoka Gas Pool, consisting of the following described area:

TOWNSHIP 21 SOUTH, RANGE 28 EAST, NMPM
Section 21: E/2

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

TOWNSHIP 8 SOUTH, RANGE 37 EAST, NMPM
Section 35: NE/4

(c) That a new pool in Eddy County, New Mexico, classified as a gas pool for Permo-Pennsylvanian production is hereby created and designated as the Boyd Permo-Pennsylvanian Gas Pool, consisting of the following described area:

TOWNSHIP 19 SOUTH, RANGE 25 EAST, NMPM
Section 2: S/2
Section 3: E/2
Section 11: N/2

(d) That a new pool in Chaves County, New Mexico, classified as a gas pool for Pre-Permian production is hereby created and designated as the Foor Ranch Pre-Permian Gas Pool, consisting of the following described area:

TOWNSHIP 9 SOUTH, RANGE 26 EAST, NMPM
Section 1: E/2
Section 12: E/2
Section 13: All

TOWNSHIP 9 SOUTH, RANGE 27 EAST, NMPM

Section 7: W/2

Section 18: W/2

(e) That a new pool in Lea County, New Mexico, classified as a gas pool for Yates and Seven Rivers production is hereby created and designated as the House-Yates-Seven Rivers Pool, consisting of the following described area:

TOWNSHIP 19 SOUTH, RANGE 39 EAST, NMPM

Section 31: SE/4

Section 32: SW/4

TOWNSHIP 20 SOUTH, RANGE 39 EAST, NMPM

Section 5: NW/4

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

TOWNSHIP 14 SOUTH, RANGE 38 EAST, NMPM

Section 33: SW/4

Further, that the discovery well for said Pollock-Wolfcamp Pool, being Reading and Bates Company Dickinson Cattle Company 33 Well No. 1 located in Unit N of Section 33, Township 14 South, Range 38 East, NMPM, is hereby assigned a bonus discovery allowable in the amount of 46,910 barrels to be produced over a two-year period.

(g) That a new pool in Lea County, New Mexico, classified as a gas pool for Wolfcamp production is hereby created and designated as the West Red Hills-Wolfcamp Gas Pool, consisting of the following described area:

TOWNSHIP 26 SOUTH, RANGE 32 EAST, NMPM

Section 1: E/2

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

TOWNSHIP 16 SOUTH, RANGE 35 EAST, NMPM

Section 9: NE/4

(i) That the East Tanneyhill-Cisco Pool in Roosevelt County, New Mexico, consisting of the following described area:

TOWNSHIP 6 SOUTH, RANGE 34 EAST, NMPM

Section 8: SE/4

is hereby abolished.

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

TOWNSHIP 8 SOUTH, RANGE 37 EAST, NMPM

Section 23: E/2

(k) That the Carson-Morrow Gas Pool in Chaves County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 9 SOUTH, RANGE 31 EAST, NMPM

Section 3: S/2

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

TOWNSHIP 16 SOUTH, RANGE 28 EAST, NMPM

Section 31: W/2

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

TOWNSHIP 18 SOUTH, RANGE 28 EAST, NMPM

Section 3: S/2

CASE NO. 7634
ORDER NO. _____

(n) That the High Lonesome-Queen Pool in Eddy County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 16 SOUTH, RANGE 29 EAST, NMPM
Section 19: SE/4 NE/4

(o) That the North Loving-Morrow Gas Pool in Eddy County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 23 SOUTH, RANGE 28 EAST, NMPM
Section 7: N/2
Section 18: All
Section 19: W/2
Section 30: W/2

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

TOWNSHIP 20 SOUTH, RANGE 38 EAST, NMPM
Section 5: NW/4
Section 8: SW/4

(q) That the Pecos Slope-Abo Gas Pool in Chaves County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 4 SOUTH, RANGE 24 EAST, NMPM
Section 26: W/2

TOWNSHIP 5 SOUTH, RANGE 24 EAST, NMPM
Section 3: E/2

TOWNSHIP 6 SOUTH, RANGE 24 EAST, NMPM
Section 15: All
Section 16: All
Section 17: All
Section 18: E/2

TOWNSHIP 7 SOUTH, RANGE 26 EAST, NMPM
Section 27: All
Section 33: All
Section 34: All

TOWNSHIP 8 SOUTH, RANGE 25 EAST, NMPM
Section 13: S/2

TOWNSHIP 8 SOUTH, RANGE 26 EAST, NMPM
Section 3: All
Section 4: All
Section 5: All
Section 6: E/2

(r) That the South Peterson-Pennsylvanian Associated Pool in Roosevelt County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 6 SOUTH, RANGE 34 EAST, NMPM
Section 7: S/2
Section 8: S/2

(s) That the West Sawyer-San Andres Pool in Lea County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 9 SOUTH, RANGE 37 EAST, NMPM
Section 32: SW/4

(t) That the Square Lake 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 30 EAST, NMPM
Section 11: S/2

(u) That the Tomahawk-San Andres Pool in Chaves County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 7 SOUTH, RANGE 31 EAST, NMPM
Section 36: SE/4

CASE NO. 7634
ORDER NO. _____

TOWNSHIP 8 SOUTH, RANGE 31 EAST, NMMPM
Section 1: N/2

(v) That the Turkey Track-Morrow Gas Pool in Eddy County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 19 SOUTH, RANGE 29 EAST, NMMPM
Section 3: N/2

(w) That the Twin Lakes-San Andres Associated Pool in Chaves County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 9 SOUTH, RANGE 28 EAST, NMMPM
Section 12: SE/4

TOWNSHIP 9 SOUTH, RANGE 29 EAST, NMMPM
Section 18: N/2

(x) That the Willow Lakes-Bone Spring Pool in Eddy County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 24 SOUTH, RANGE 28 EAST, NMMPM
Section 32: N/2 N/2
Section 33: N/2 NW/4

IT IS FURTHER ORDERED:

(1) That pursuant to Section 70-2-18, NMSA 1978, contained in Chapter 271, Laws of 1969, any well which by virtue of any of the above pool extensions, is subject to pool rules providing for spacing or proration units larger than the one which is presently dedicated thereto, shall have 60 days from the effective date of this order in which to file new Forms C-102 dedicating a standard unit for the pool to said well, or to obtain a non-standard unit approved by the Division. Pending such compliance, the well shall receive a maximum allowable in the same proportion to a standard allowable for the pool that the acreage dedicated to the well bears to a standard unit for the pool. Failure to file Form C-102 dedicating a standard unit to the well or to obtain a non-standard unit approved by the Division within said 60-day period shall subject the well to cancellation of the allowable.

(2) That the effective date of this order and all creations and extensions included therein shall be September 1, 1982.

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

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

JOE D. RAMEY
DIRECTOR

S E A L

In the Matter of the application of the Oil Conservation Division of the Energy and Minerals Department upon its own motion for an order for the creation of new pools in Chaves, Eddy, Lea, and Roosevelt Counties, New Mexico, the assignment of a discovery allowable for a new pool in Lea County, New Mexico, the abolishment of an existing pool in Roosevelt County, New Mexico, and the extension of certain existing pools in Chaves, 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, discovery allowable assignment, abolishments, and extensions should not be made.

(a) CREATE a new pool in Eddy County, New Mexico, classified as a gas pool for Atoka production and designated as the ~~Bass~~ ^{West Indian Flats} Atoka Gas Pool. The discovery well is the Perry R. Bass, Big Eddy Unit 79Y located in Unit J of Section 21, Township 21 South, Range 28 East, NMPM. Said pool would comprise:

TOWNSHIP 21 SOUTH, RANGE 28 EAST, NMPM
Section 21: E/2

(b) CREATE a new pool in Roosevelt County, New Mexico, classified as an oil pool for San Andres production and designated as the South Bluitt-San Andres Pool. The discovery well is the Ike Lovelady, Inc. Lignum Well No. 1 located in Unit A of Section 35, Township 8 South, Range 37 East, NMPM. Said pool would comprise:

TOWNSHIP 8 SOUTH, RANGE 37 EAST, NMPM
Section 35: NE/4

(c) CREATE a new pool in Eddy County, New Mexico, classified as a gas pool for Permo-Pennsylvanian production and designated as the Boyd-Permo-Pennsylvanian Gas Pool. The discovery well is Yates Petroleum Corporation Rio Penasco MF Federal Com Well No. 1 located in Unit F of Section 11, Township 19 South, Range 25 East, NMPM. Said pool would comprise:

TOWNSHIP 19 SOUTH, RANGE 25 EAST, NMPM
Section 2: S/2
Section 3: E/2
Section 11: N/2

(d) CREATE a new pool in Chaves County, New Mexico, classified as a gas pool for Pre-Permian production and designated as the Foor Ranch-Pre-Permian Gas Pool. The discovery well is Plains Radio Broadcasting, Camel Well No. 1 located in Unit F of Section 7, Township 9 South, Range 27 East, NMPM. Said pool would comprise:

TOWNSHIP 9 SOUTH, RANGE 26 EAST, NMPM
Section 1: E/2
Section 12: E/2
Section 13: All

TOWNSHIP 9 SOUTH, RANGE 27 EAST, NMPM
Section 7: W/2
Section 18: W/2

(e) CREATE a new pool in Lea County, New Mexico, classified as a gas pool for Yates and Seven Rivers production and designated as the House-Yates-Seven Rivers Gas Pool. The discovery well is the MGF Oil Corporation J. Wright Well No. 1 located in Unit D of Section 5, Township 20 South, Range 39 East, NMPM. Said pool would comprise:

TOWNSHIP 19 SOUTH, RANGE 39 EAST, NMPM
Section 31: SE/4
Section 32: SW/4

TOWNSHIP 20 SOUTH, RANGE 39 EAST, NMPM
Section 5: NW/4

(f) CREATE a new pool in Lea County, New Mexico, classified as an oil pool for Wolfcamp production and designated as the Pollock-Wolfcamp Pool. Further, to assign approximately 46,910 barrels of discovery allowable to the discovery well, the Reading and Bates Company Dickinson Cattle Company 33 Well No. 1 located in Unit N of Section 33, Township 14 South, Range 38 East, NMPM. Said pool would comprise:

TOWNSHIP 14 SOUTH, RANGE 38 EAST, NMPM
Section 33: SW/4

(g) CREATE a new pool in Lea County, New Mexico, classified as a gas pool for Wolfcamp production and designated as the West Red Hills-Wolfcamp Gas Pool. The discovery well is the BTA Oil Producers Mesa 8105 JV-P Well No. 1 located in Unit I of Section 1, Township 26 South, Range 32 East, NMPM. Said pool would comprise:

TOWNSHIP 26 SOUTH, RANGE 32 EAST, NMPM
Section 1: E/2

(h) CREATE a new pool in Lea County, New Mexico, classified as an oil pool for Abo production and designated as the Townsend-Abo Pool. The discovery well is the Charles B. Gillespie, Jr. Exxon Townsend Well No. 1 located in Unit B of Section 9, Township 16 South, Range 35 East, NMPM. Said pool would comprise:

TOWNSHIP 16 SOUTH, RANGE 35 EAST, NMPM
Section 9: NE/4

(i) ABOLISH the East Tanneyhill-Cisco Pool in Roosevelt County, New Mexico, as heretofore classified, defined, and described as:

TOWNSHIP 6 SOUTH, RANGE 34 EAST, NMPM
Section 8: SE/4

(j) EXTEND the Bluit-San Andres Associated Pool in Roosevelt County, New Mexico, to include therein:

TOWNSHIP 8 SOUTH, RANGE 37 EAST, NMPM
Section 23: E/2 ✓

(k) EXTEND the Carson-Morrow Gas Pool in Chaves County, New Mexico, to include therein:

TOWNSHIP 9 SOUTH, RANGE 31 EAST, NMPM
Section 3: S/2

(l) EXTEND the Crow Flats-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 16 SOUTH, RANGE 28 EAST, NMPM
Section 31: W/2

(m) EXTEND the Empire-Pennsylvanian Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 18 SOUTH, RANGE 28 EAST, NMPM
Section 3: S/2

(n) EXTEND the High Lonesome-Queen Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 16 SOUTH, RANGE 29 EAST, NMPM
Section 19: SE/4 NE/4

(o) EXTEND the North Loving-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 23 SOUTH, RANGE 28 EAST, NMPM
Section 7: N/2
Section 18: All
Section 19: W/2
Section 30: W/2 ✓

(p) EXTEND the West Nadine-Blinebry Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 20 SOUTH, RANGE 38 EAST, NMPM
Section 5: NW/4
Section 8: SW/4

(q) EXTEND the Pecos Slope-Abo Gas Pool in Chaves County, New Mexico, to include therein:

TOWNSHIP 4 SOUTH, RANGE 24 EAST, NMPM
Section 26: W/2

TOWNSHIP 5 SOUTH, RANGE 24 EAST, NMPM
Section 3: E/2

TOWNSHIP 6 SOUTH, RANGE 24 EAST, NMPM

Section 15: A11
Section 16: A11
Section 17: A11
Section 18: E/2

TOWNSHIP 7 SOUTH, RANGE 26 EAST, NMPM

Section 27: A11
Section 33: A11
Section 34: A11

TOWNSHIP 8 SOUTH, RANGE 25 EAST, NMPM

Section 13: S/2

TOWNSHIP 8 SOUTH, RANGE 26 EAST, NMPM

Section 3: A11
Section 4: A11
Section 5: A11
Section 6: E/2

(r) EXTEND the South Peterson-Pennsylvanian Associated Pool in Roosevelt County, New Mexico, to include therein: ✓

TOWNSHIP 6 SOUTH, RANGE 34 EAST, NMPM

Section 7: S/2
Section 8: S/2

(s) EXTEND the West Sawyer-San Andres Pool in Lea County, New Mexico, to include therein: ✓

TOWNSHIP 9 SOUTH, RANGE 37 EAST, NMPM

Section 32: SW/4

(t) EXTEND the Square Lake-Grayburg-San Andres Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 17 SOUTH, RANGE 30 EAST, NMPM

Section 11: S/2

(u) EXTEND the Tomahawk-San Andres Pool in Chaves County, New Mexico, to include therein:

TOWNSHIP 7 SOUTH, RANGE 31 EAST, NMPM

Section 36: SE/4

TOWNSHIP 8 SOUTH, RANGE 31 EAST, NMPM

Section 1: N/2

(v) EXTEND the Turkey Track-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 19 SOUTH, RANGE 29 EAST, NMPM

Section 3: N/2

(w) EXTEND the Twin Lakes-San Andres Associated Pool in Chaves County, New Mexico, to include therein:

TOWNSHIP 9 SOUTH, RANGE 28 EAST, NMPM

Section 12: SE/4

TOWNSHIP 9 SOUTH, RANGE 29 EAST, NMPM

Section 18: N/2

(x) EXTEND the Willow Lakes-Bone Spring Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 24 SOUTH, RANGE 28 EAST, NMPM

Section 32: N/2 N/2
Section 33: N/2 NW/4

OIL CONSERVATION COMMISSION
ARTESIA, NEW MEXICO
DISTRICT II

JUL 06 1982

NOMENCLATURE ADVERTISEMENT FOR AUGUST 1982

- (A) Create a new pool in Eddy County, New Mexico, classified as a gas pool for Atoka Production and designated as the Bass-Atoka Gas Pool. The discovery well is Perry R. Bass, Big Eddy Unit 79-Y located in Unit J of Section 21, Township 21, Range 28 East NMPM. Said pool would comprise:
Township 21 South, Range 28 East NMPM
Section 21: E/2
- (B) Create a new pool in Eddy County, New Mexico, classified as a gas pool for Permo-Penn production and designated as the Boyd-Permo Penn Gas Pool. The discovery well is Yates Petroleum Corp., Rio Penasco NF Federal Com #1 located in Unit F of Section 11, Township 19 South, Range 25 East NMPM. Said pool would comprise:
Township 19 South, Range 25 East NMPM
Section 2: S/2
Section 3: E/2
Section 11: N/2
- (C) Create a new pool in Chaves County, New Mexico, classified as a gas pool for Pre-Permian production and designated as the Foor Ranch-Pre-Permian Gas Pool. The discovery well is Plains Radio Broadcasting, Camel #1 located in Unit F of Section 7, Township 9 South, Range 27 East NMPM. Said pool would comprise:
Township 9 South, Range 26 East NMPM
Section 1: E/2
Section 12: E/2
Section 13: A11

Township 9 South, Range 27 East NMPM
Section 7: W/2
Section 18: W/2
- (D) Extend the Crow Flats-Morrow Gas Pool in Eddy County, New Mexico, to include therein:
Township 16 South, Range 28 East NMPM
Section 31: W/2
- (E) Extend the Empire-Penn Gas Pool in Eddy County, New Mexico, to include therein:
Township 18 South, Range 28 East NMPM
Section 3: S/2
- (F) Extend the High Lonesome-Queen Pool in Eddy County, New Mexico, to include therein:
Township 16 South, Range 29 East NMPM
Section 19: SE/4 NE/4
- (G) Extend the North Loving-Morrow Gas Pool in Eddy County, New Mexico, to include therein:
Township 23 South, Range 28 East NMPM
Section 7: N/2
Section 18: A11
Section 19: W/2
Section 30: W/2

- (H) Extend the Pecos Slope-Abo Gas Pool in Chaves County, New Mexico, to include therein:

Township 4 South, Range 24 East NMPM
Section 26: W/2

Township 5 South, Range 24 East NMPM
Section 3: E/2

Township 6 South, Range 24 East NMPM
Section 15: All
Section 16: All
Section 17: All
Section 18: E/2

Township 7 South, Range 26 East NMPM
Section 27: All
Section 33: All
Section 34: All

Township 8 South, Range 25 East NMPM
Section 13: S/2

Township 8 South, Range 26 East NMPM
Section 3: All
Section 4: All
Section 5: All
Section 6: E/2

- (I) ~~Extend the East Red Lake-Queen/Grayburg Pool in Eddy County, New Mexico, to include therein:~~

~~Township 16 South, Range 28 East NMPM
Section 25: SE/4 NE/4 & NE/4 of SE/4~~

Delete # I

- (J) Extend the Square Lake-Grayburg/San Andres Pool in Eddy County, New Mexico, to include therein:

Township 17 South, Range 30 East, NMPM
Section 11: S/2

- (K) Extend the Turkey Track-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

Township 19 South, Range 29 East NMPM
Section 3: N/2

- (L) Extend the Twin Lakes-San Andres Associated Pool in ~~Eddy~~ ^{Chaves} County, New Mexico, to include therein:

Township 9 South, Range 28 East NMPM
Section 12: SE/4

Township 9 South, Range 29 East NMPM
Section 18: N/2

- (M) Extend the Willow Lakes-Bone Spring Pool in Eddy County, New Mexico, to include therein:

Township 24 South, Range 28 East NMPM
Section 32: N/2 N/2
Section 33: N/2 NW/4

LB:mm

cc Carl Ulvog
OCD-Hobbs

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

CASE NO. 7634
Order No. R-7048

THE APPLICATION OF THE OIL CONSERVATION
DIVISION UPON ITS OWN MOTION FOR AN
ORDER CREATING, ASSIGNING A DISCOVERY
ALLOWABLE, ABOLISHING, AND EXTENDING
CERTAIN POOLS IN CHAVES, EDDY, LEA,
AND ROOSEVELT COUNTIES, NEW MEXICO.

NUNC PRO TUNC ORDER

BY THE DIVISION:

It appearing to the Division that Order No. R-7048, dated August 9, 1982, does not correctly state the intended order of the Division,

IT IS THEREFORE ORDERED:

(1) That Finding No. (9) on page 3 of Order No. R-7048, ~~that the Abo formation is hereby amended to read in its entirety as follows:~~ is hereby amended to read in its entirety as follows:

"(9) That there is need for the creation of a new pool in Lea County, New Mexico, for the production of oil from the Abo formation, said pool to bear the designation of Northwest Townsend-Abo Pool. Said Northwest Townsend-Abo Pool was discovered by the Charles B. Gillespie, Jr. Exxon Townsend Well No. 1 located in Unit B of Section 9, Township 16 South, Range 35 East, NMPM. It was completed in the Abo formation on September 25, 1981. The top of the perforations is at 8,716 feet."

(2) That paragraph no. (h) on page 5 of Order No. R-7048 is hereby amended to read in its entirety as follows:

"(h) That a new pool in Lea County, New Mexico, classified as an oil pool for Abo production is hereby created and designated as the Northwest Townsend-Abo Pool, consisting of the following described area:

TOWNSHIP 16 SOUTH, RANGE 35 EAST, NMPM
Section 9: NE/4"

(3) That the corrections set forth in this order be entered nunc pro tunc as of August 9, 1982.