

CASE 3602: Application of AMERADA
PET. CORP. for a dual completion,
Lea County, New Mexico.

CASE No.
3602

Application,
TRANSCRIPTS,
SMALL Exhibits
ETC.

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

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

CASE No. 3602
Order No. R-3267

APPLICATION OF AMERADA PETROLEUM CORPORATION
FOR A DUAL COMPLETION, LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on June 28, 1967,
at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this 10th day of July, 1967, the Commission, a
quorum being present, 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 Commission has jurisdiction of this cause and the subject
matter thereof.

(2) That the applicant, Amerada Petroleum Corporation, seeks
authority to complete its State WE "K" Well No. 1, located in Unit
P of Section 15, Township 21 South, Range 35 East, NMPM, Lea County,
New Mexico, as a dual completion (conventional) to produce gas from
an undesignated Wolfcamp gas pool and gas from an undesignated
Morrow gas pool through parallel strings of 2 3/8-inch tubing, with
separation of zones by a packer set at approximately 11,740 feet.

(3) That the mechanics of the proposed dual completion are
feasible and in accord with good conservation practices.

(4) That approval of the subject application will prevent
waste and protect correlative rights.

-2-

CASE No. 3602
Order No. R-3267

IT IS THEREFORE ORDERED:

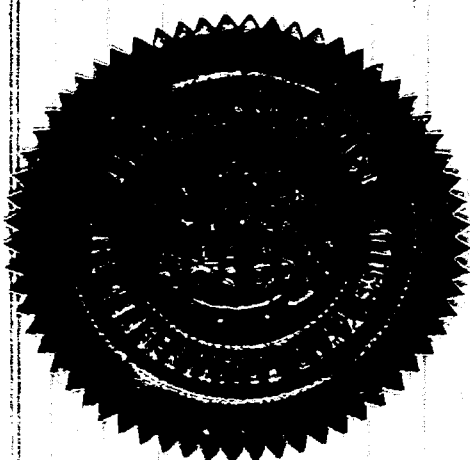
(1) That the applicant, Amerada Petroleum Corporation, is hereby authorized to complete its State WE "K" Well No. 1, located in Unit F of Section 15, Township 21 South, Range 35 East, NMPM, Lea County, New Mexico, as a dual completion (conventional) to produce gas from an undesignated Wolfcamp gas pool and gas from an undesignated Morrow gas pool through parallel strings of 2 3/8-inch tubing, with separation of zones by a packer set at approximately 11,740 feet;

PROVIDED HOWEVER, that the applicant shall complete, operate, and produce said well in accordance with the provisions of Rule 112-A of the Commission Rules and Regulations insofar as said rule is not inconsistent with this order.

PROVIDED FURTHER, that the applicant shall take packer-leakage tests upon completion and annually thereafter during the Annual Shut-in Pressure Test Period for the undesignated Morrow gas pool.

(2) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

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



STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

David F. Cargo
DAVID F. CARGO, Chairman

Guyton B. Hays
GUYTON B. HAYS, Member

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

esr/

Case 3602

Heard 6-28-67

Rec. 6-28-67

Grant Amerad permission to
drill complete their St. W. N. #1, F legs
215-350 in the undesignated ~~Pool~~
W.C. & Monow ~~gas~~ pools.

Each pool to be produced thru
a string of 2 3/8" tubing. Zones
are separated with packers.

Thos. H. H.

State of New Mexico
Oil Conservation Commission



LAND COMMISSIONER
GUYTON B. HAYS
MEMBER

P. O. BOX 2088
SANTA FE

Re: Case No. 3602
Order No. R-3267
Applicant:

Amerada Petroleum Corporation

Dear Sir:

Dear Sir:

Enclosed herewith are two copies of the above-referenced Commission order recently entered in the subject case.

Very truly yours,

Very truly yours,

A. L. PORTER, Jr.
Secretary-Director

ALP/ir

ALP/11

Carbon copy of order also sent to:

Hobbs OCC x
 Artesia OCC
 Aztec OCC
 Other

May 18, 1967

OFFICE 000

'67 MAY 26 PM 1 06

IN THE MATTER OF THE APPLICATION
OF AMERADA PETROLEUM CORPORATION
FOR AN ORDER PERMITTING THE DUAL
COMPLETION OF ITS STATE WE "K"
NO. 1, LOCATED IN UNIT F, SEC. 15,
T-21-S, R-35-E, LEA COUNTY, NEW
MEXICO, IN THE WOLFCAMP AND
MORROW FORMATIONS.

Case 3602

APPLICATION

Applicant, Amerada Petroleum Corporation, states that:

1. Applicant is the owner and operator of the State WE "K" No. 1 located in Unit F, Section 15, T-21-S, R-35-E, Lea County, New Mexico.
2. Applicant proposes to dual complete the well as an undesignated Wolfcamp gas and an undesignated Morrow gas well through parallel strings of 2-3/8" tubing.
3. Copies of the Commission's Dual Completion Form, Area Plat, and Schematic Diagram of the proposed well installation are enclosed.

Applicant requests that this matter be set for hearing before an examiner. That notice of the hearing be given as required by law, and that, upon conclusion of the hearing, the Commission enter its order authorizing the proposal set forth above.

Respectfully submitted,

AMERADA PETROLEUM CORPORATION

BY Jason W. Kellah
KELLAHIN & FOX
P. O. Box 1713
Santa Fe, New Mexico

ATTORNEYS FOR APPLICANT

DOCKET MAILED

Date 6/15/67

NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

7-3-58

APPLICATION FOR DUAL COMPLETION

Field Name Wildcat			County Lea	Date May 25, 1967
Operator Amerada Petroleum Corporation		Lease State WE "K"		Well No. 1
Location of Well F	Unit 15	Section 21-S	Range 35-E	

1. Has the New Mexico Oil Conservation Commission heretofore authorized the dual completion of a well in these same pools or in the same zones within one mile of the subject well? YES _____ NO X
2. If answer is yes, identify one such instance: Order No. _____; Operator, Lease, and Well No.:

3. The following facts are submitted:	Upper Zone	Lower Zone
a. Name of reservoir	Wolfcamp	Morrow
b. Top and Bottom of Pay Section (Perforations)	10,899' to 10,951'	12,004' to 12,077'
c. Type of production (Oil or Gas)	Gas	Gas
d. Method of Production (Flowing or Artificial Lift)	Flow	Flow

4. The following are attached. (Please mark YES or NO)

- Yes a. Diagrammatic Sketch of the Dual Completion, showing all casing strings, including size and setting, top of cement, perforated intervals, tubing strings, including diameters and setting depth, location and type of packers and side door chokes, and such other information as may be pertinent.
- Yes b. Plat showing the location of all wells on applicant's lease, all offset wells on offset leases, and the names and addresses of operators of all leases offsetting applicant's lease.
- No c. Waivers consenting to such dual completion from each offset operator, or in lieu thereof, evidence that said offset operators have been furnished copies of the application.*
- Yes d. Electrical log of the well or other acceptable log with tops and bottoms of producing zones and intervals of perforation indicated thereon. (If such log is not available at the time application is filed, it shall be submitted as provided by Rule 112-A.)

5. List all offset operators to the lease on which this well is located together with their correct mailing address.

Ralph Lowe Estate	P. O. Box 832	Midland, Texas
Perry R. Bass, Inc.	P. O. Box 171	Midland, Texas
Sinclair Oil & Gas Co.	P. O. Box 1470	Midland, Texas
Superior Oil Co.	P. O. Box 1900	Midland, Texas
Wilson Oil Co.	P. O. Box 627	Santa Fe, New Mexico
Jake L. Hamon	908 Vaughn Bldg.	Midland, Texas
J. C. Barnes Oil Co.	P. O. Box 505	Midland, Texas

6. Were all operators listed in Item 5 above notified and furnished a copy of this application? YES X NO _____. If answer is yes, give date of such notification May 25, 1967.

CERTIFICATE: I, the undersigned, state that I am the District Superintendent of the Amerada Petroleum Corporation (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

B. J. Liney

Signature

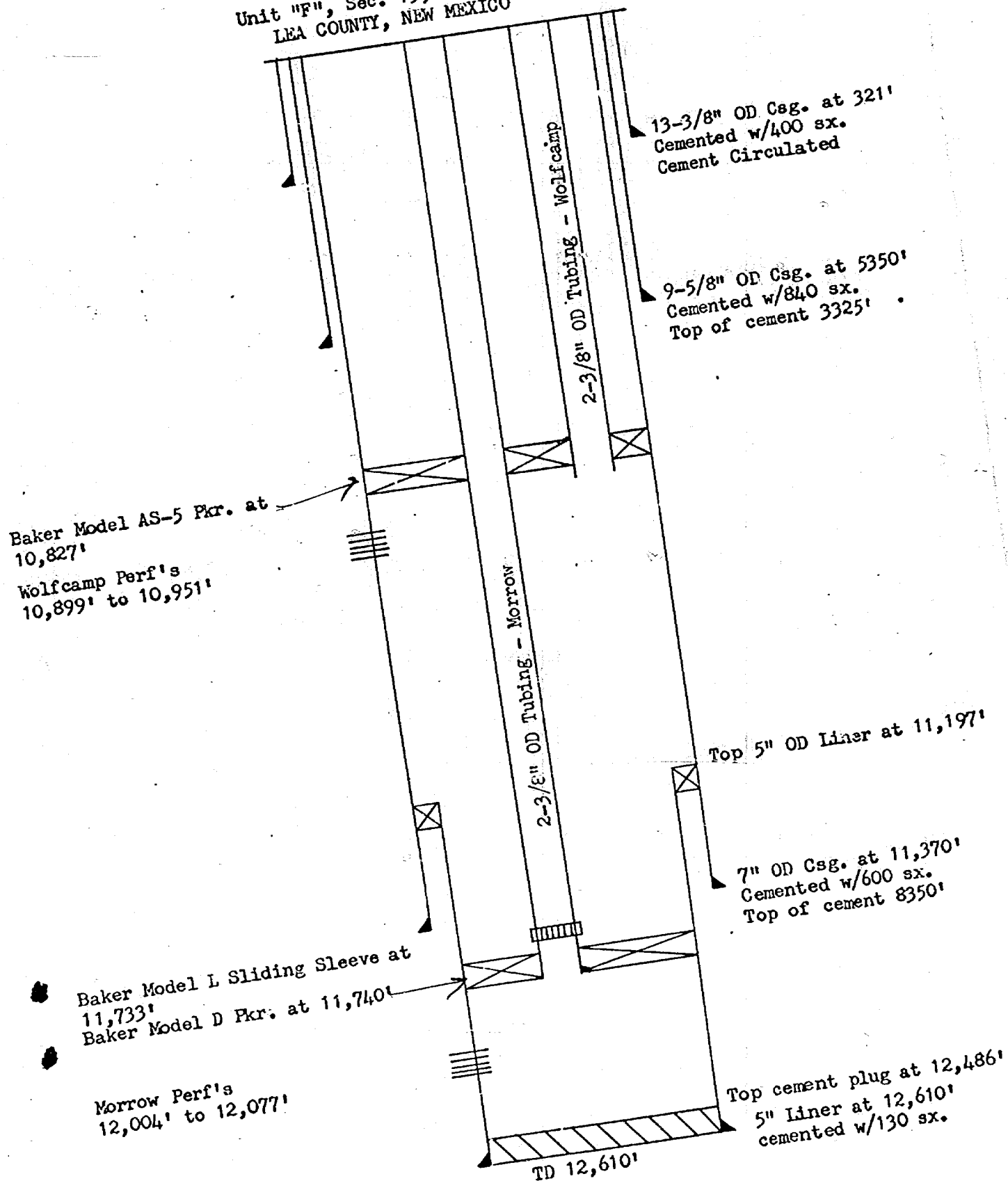
* Should waivers from all offset operators not accompany an application for administrative approval, the New Mexico Oil Conservation Commission will hold the application for a period of twenty (20) days from date of receipt by the Commission's Santa Fe office. If, after said twenty-day period, no protest nor request for hearing is received by the Santa Fe office, the application will then be processed. If the proposed dual completion will result in an unorthodox well location and/or a non-standard proration unit in either or both of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

AMERADA PETROLEUM CORPORATION

STATE WE "K" NO. 1

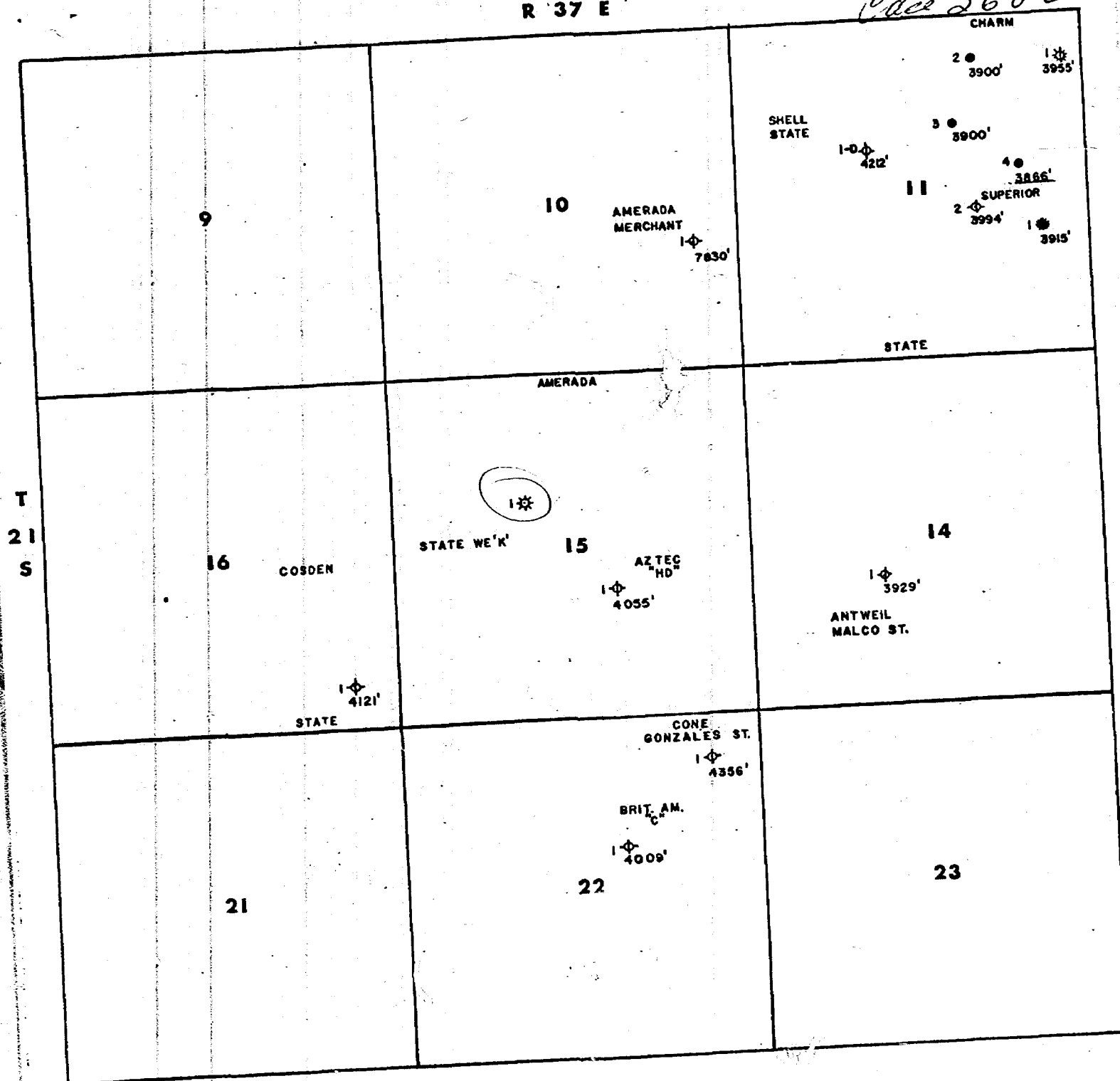
Unit "F", Sec. 15, T-21S, R-35E
LEA COUNTY, NEW MEXICO

Case 3602



R 37 E

Page 3602



AMERADA PETROLEUM CORPORATION
SOUTH OSUDO AREA

LEA COUNTY, NEW MEXICO

SCALE 1" = 2000'

Docket No. 19-67

DOCKET: EXAMINER HEARING - WEDNESDAY - JUNE 28, 1967

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

The following cases will be heard before Elvis A. Utz, Examiner, or Daniel S. Nutter, Alternate Examiner:

- CASE 3598: Application of Dugan Production Corporation for the creation of a new gas pool, special pool rules and three unorthodox gas well locations, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks the creation of the North Shiprock-Gallup Gas Pool in Section 14, Township 30 North, Range 18 West, San Juan County, New Mexico and the promulgation of special rules therefor including a provision to authorize exception to the pump-pug method of cementing prescribed by Rule 107 (a). Applicant also seeks authority to meter production from all wells on its Shiprock lease in said pool through one meter and to allocate production from the individual wells on the basis of well tests. Applicant further seeks approval of the unorthodox gas well locations for its Shiprock Well No. 5 located 1650 feet from the North line and 1870 feet from the East line, its Shiprock Well No. 7 located 990 feet from the North line and 2310 feet from the West line, and its Shiprock Well No. 8 located 2310 feet from the South line and 660 feet from the East line, all in Section 14, Township 30 North, Range 18 West.
- CASE 3599: Application of Franklin, Aston and Fair, Inc. for a waterflood project, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project by the injection of water into the Grayburg-San Andres formations through two wells located in Unit E of Section 17 and Unit A of Section 18, Township 17 South, Range 31 East, Grayburg-Jackson Pool, Eddy County, New Mexico.
- CASE 3600: Application of Texaco Inc., for a dual completion, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval of the dual completion (conventional) of its Cotton Draw Unit Well No. 65, located in Unit G of Section 2, Township 25 South, Range 31 East, Eddy County, New Mexico, to produce gas from an undesignated Wolfcamp gas pool and gas from an undesignated Morrow gas pool through parallel strings of tubing.
- CASE 3601: Application of Walker Brothers Oil Company and Tesoro Petroleum Corporation for an exception to Rule 104 C I, McKinley County, New Mexico. Applicant, in the above-styled cause, seeks an exception to the well location requirements of Rule 104 C I to permit the drilling of more than one well on a 40-acre tract, said wells being located closer than 660 feet to each other and with each 40-acre tract being subject to a single 40-acre allowable. The above exceptions for the South Hospah Upper Sand Oil Pool and the South Hospah Lower Sand Oil Pool, McKinley County, New Mexico, would be applicable to Walker's Hansen Lease comprising the S/2 of Section 6, and Walker's Santa Fe Lease comprising the N/2 and

and SW/4 of Section 7, both in Township 17 North, Range 8 West and to Tesoro's Santa Fe Lease comprising the SE/4 of Section 1, Township 17 North, Range 9 West.

- CASE 3602: Application of Amerada Petroleum Corporation for a dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion (conventional) of its State WE "K" Well No. 1 located in Unit F of Section 15, Township 21 South, Range 35 East, Lea County, New Mexico, in such a manner as to permit the production of gas from an undesignated Wolfcamp gas pool and gas from an undesignated Morrow gas pool through parallel strings of tubing.
- CASE 3603: Application of Continental Oil Company for a unit agreement, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the Langlie Jack Unit Area comprising 680 acres, more or less, of Federal and Fee lands in Township 24 South, Range 37 East, Lea County, New Mexico.
- CASE 3604: Application of Continental Oil Company for a waterflood project, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project in its Langlie Jack Unit Area by the injection of water into the Seven Rivers-Queen formations through 8 injection wells in Sections 17, 20, 21, and 29, Township 24 South, Range 37 East, Langlie-Mattix Pool, Lea County, New Mexico.
- CASE 3605: Application of Walter Duncan for a casing-cementing exception, and for an unorthodox location, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks authority to complete his North Hogback 1 Well No. 5 at an unorthodox Dakota oil well location 2466 feet from the North line and 2310 feet from the East line of Section 1, Township 29 North, Range 17 West, San Juan County, New Mexico. Applicant further seeks an exception to the provisions of Rule 107(a) concerning cementing of casing.
- CASE 3606: Application of Bell Petroleum Company for salt water disposal and a dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to complete its State "K" Well No. 1 located in Unit K of Section 21, Township 11 South, Range 33 East, Lea County, New Mexico, in such a manner as to permit the production of oil from the North Bagley-Lower Pennsylvanian formation and the disposal of produced salt water through the intermediate casing-production casing annulus into the San Andres and other formations included in the open-hole interval from 3845 feet to 7800 feet.

June 28, 1967 Examiner Hearing

Docket No. 19-67

CASE 3607:

Application of Stoltz & Company for an amendment to Order No. R-3238, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the amendment to Order No. R-3238, which order authorized the disposal of produced salt water into a playa lake in Sections 12 and 13, Township 10 South, Range 32 East, and Sections 6 and 7, Township 10 South, Range 33 East, Lea County, New Mexico. Applicant seeks to alter the location of the three observation wells required by said order. Alternate locations proposed by applicant are as follows: one well 300 feet from the South line and 1100 feet from the West line; one well 600 feet from the South line and 1400 feet from the East line; one well 2400 feet from the South line and 1100 feet from the East line, all in Section 7, Township 10 South, Range 33 East. Applicant further seeks the amendment to Order No. R-3238 to alter the location of two of the three permanent water-level markers required by said order. Applicant proposes one marker on the North shore of the lake in lieu of the marker required in the SW/4 SE/4 of Section 6 and one marker on the East shore of the lake in lieu of the marker required in the SE/4 NW/4 of Section 7.

dearnley-meier reporting service, inc.

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

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BEFORE THE
NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
EXAMINER HEARING

June 28, 1967

IN THE MATTER OF:)

Application of Amerada Petroleum)
Corporation for a dual completion,)
Lea County, New Mexico.)

Case No. 3602

BEFORE: Elvis A. Utz, Examiner.

TRANSCRIPT OF HEARING

MR. UTZ: Case 3602.

MR. HATCH: Application of Amerada Petroleum Corporation for a dual completion, Lea County, New Mexico.

MR. KELLAHIN: Jason Kellahin, Kellahin and Fox, appearing for the Applicant, and we have one witness I would like to have sworn.

(Witness sworn.)

MR. UTZ: Any appearances in this case? You may proceed.

(Whereupon, Applicant's Exhibits 1 through 3 were marked for identification.)

JOHN SWENDIG

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

DIRECT EXAMINATION

BY MR. KELLAHIN:

Q Would you state your name, please?

A John Swendig.

Q By whom are you employed and in what position?

A Amerada Petroleum Corporation, District Engineer, Hobbs District.

Q Have you testified before the Oil Conservation Commission and made your qualifications a matter of record?

A Yes, I have.

MR. KELLAHIN: Are the witness's qualifications satisfactory?

MR. UTZ: Yes, sir, they are.

Q (By Mr. Kellahin) Are you familiar with the application of Amerada Corporation in Case 3602?

A Yes.

Q Briefly, what is proposed by Amerada in this application?

A This is an application for a conventional dual completion in two gas zones in an area where no previous dual completions have been made.

Q Is the fact that there are no dual completions in the area the reason that this application has been set for hearing?

A Yes, sir.

Q Now, referring to what has been marked as Exhibit No. 1, would you identify that exhibit, please?

A This is a map of the South Osudo area showing the location of the Amerada State WE "K" No. 1 in the Southeast Quarter of the Northwest Quarter of Section 15 and the offset or the wells that have been drilled in the area.

Q Which well is the well that is the subject of this application, how is it shown?

A As a gas well.

Q And No. 1?

A The No. 1 WE "K".

Q North Half of the section?

A Right.

Q Referring to Exhibit No. 2, would you identify that exhibit, please?

A This is a -- on this exhibit we show drill stem test and test information for the two zones in question, the Wolfcamp and the Morrow zone. The drill stem test on the Wolfcamp zone, it produced 1,390,000 cubic feet per day and recovered 450 feet of condensate. The final buildup pressure on the zone was 4610 psi, on well test 5-24-67. It flowed 33 barrels condensate and 51 barrels load water in 24 hours. The gas volume was 626,000,000 cubic feet per day and the condensate gravity was 47.5 degrees API. I didn't mark it on the exhibit, but the gas gravity, I have some, it is .732.

On the Morrow zone the drill stem test, we did not allow it to flow gas to the surface and had no flow rate, but the final buildup pressure was 7,354 pounds and then on completion the well was produced for five hours and flowed 66 barrels of condensate, 4,102,000 MCF of gas with a condensate gravity of 53.6 degrees, with a gas gravity of .636.

Q Do you have any other pressure information at the

present time other than what is shown on Exhibit No. 2?

A We have some pressure data on the Wolfcamp zone. There was a buildup test taken after it was produced and the buildup pressure after being produced for several days is 2650 pounds.

Q You haven't been able to produce the Morrow zone as yet, is this correct?

A Neither zones have been produced any length of time, or sufficient length of time to get a four point test, due to the lack of a pipeline connection at this time.

Q Do you have a pipeline connection yet?

A No.

Q Do you anticipate that you will shortly?

A Yes.

Q At that time you will file your four point back pressure test?

A Yes.

Q Referring to Exhibit 3, will you identify that exhibit?

A This is a schematic of the completion and the casing program showing the 13-3/8ths-inch OD casing at 321 feet, cemented with 400 sacks, with cement circulated. 9-5/8ths-inch OD casing at 5350 feet, cemented with 840 sacks, with the top of the cement at 3325 feet. 7-inch was set at

11,370, on top of the cement was 8,350. 5-inch liner was run from 11,197 to a total depth of 12,610 feet. The cement circulated completely around the liner.

Q The liner is then cemented back into the 7-inch casing?

A Yes.

Q Is the type of packer you are using a conventional packer for dual completions?

A Yes.

Q Is the completion as shown on Exhibit 3 the type of dual completion that has generally been approved by the Oil Conservation Commission in this area?

A Yes, sir, this is a conventional dual completion.

Q Will it adequately protect the two zones involved from any possibility of communication?

A Yes.

Q In your opinion will it result in an economical operation of the State WE "K" No. 1 well?

A Yes, sir. I believe it will. One thing I might point out, that the gas in both of these zones is sweet. There will be no corrosion problems.

Q And the two zones are a substantial distance apart vertically, aren't they?

A Yes, sir. They're over a thousand feet apart.

Q And you have effective separation of the two zones by this type of completion then, is this correct?

A Yes, sir.

Q Were Exhibits 1, 2 and 3 prepared by you or under your supervision?

A Yes, sir, they were prepared by me.

MR. KELLAHIN: At this time I would like to offer in evidence Exhibits 1, 2 and 3.

MR. UTZ: Without objection, Exhibits 1, 2 and 3 will be entered into the record of this case.

(Whereupon, Applicant's Exhibits 1 through 3 were offered and admitted in evidence.)

MR. KELLAHIN: That's all I have on direct examination.

CROSS EXAMINATION

BY MR. UTZ:

Q Mr. Swendig, do you have any pressure information on these two zones?

A Any pressure information?

Q Do you know what the pressures are?

A Yes, we have drill stem test pressure and then we ran pressures on the Wolfcamp zone after it had been flowed several days and the pressure at that time was 2650, incidentally. Let me check that. It was 2650 and was still building up.

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The Wolfcamp is an exceedingly tight reservoir and has a very low drawdown in pressure.

Q Do you have any idea what the Morrow pressure is?

A Just the drill stem test pressure, which was 7354.

Q Were you here for the case this morning on Texaco's dual?

A Just for the last part of it.

Q Is this in the same area as that well?

A I believe there's probably ten miles distance between these two wells.

Q You wouldn't expect line pressures in this area?

A No, sir. The pressures in this field would be more closely associated with the North Wilson pressures that the wells Gulf and Hammond have drilled in that area.

Q You would expect the Wolfcamp pressures to build up to something less than 3,000 probably?

A Given time I think they would build up above, approach the original reservoir pressure, but I don't think that this is a practical length of time because this 2600 pounds was over about a ten-day period and it built up from about 400 pounds to the 2600 pounds in about ten days.

Q What was the original pressure?

A The original pressure on drill stem test was 4610.

Q So you have somewhere close to 3,000 pounds

differential across the packer?

A Yes, sir.

Q The packers will hold that pressure adequately,
I presume?

A Yes, sir, I believe it will.

MR. UTZ: Any other questions of the witness? The
witness will be excused.

(Witness excused.)

MR. UTZ: Any statements in this case? The case
will be taken under advisement.

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I N D E X

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Applicant's 1 through 3	2	7

dearnley-meier reporting

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PAGE 11

STATE OF NEW MEXICO)
COUNTY OF BERNALILLO) ss

I, ADA DEARNLEY, Notary Public in and for the County of Bernalillo, State of New Mexico, do hereby certify that the foregoing and attached Transcript of Hearing before the New Mexico Oil Conservation Commission was reported by me; and that the same is a true and correct record of the said proceedings, to the best of my knowledge, skill and ability.

Witness my Hand and Seal this 1st day of July, 1967.

Ada Dearnley
NOTARY PUBLIC

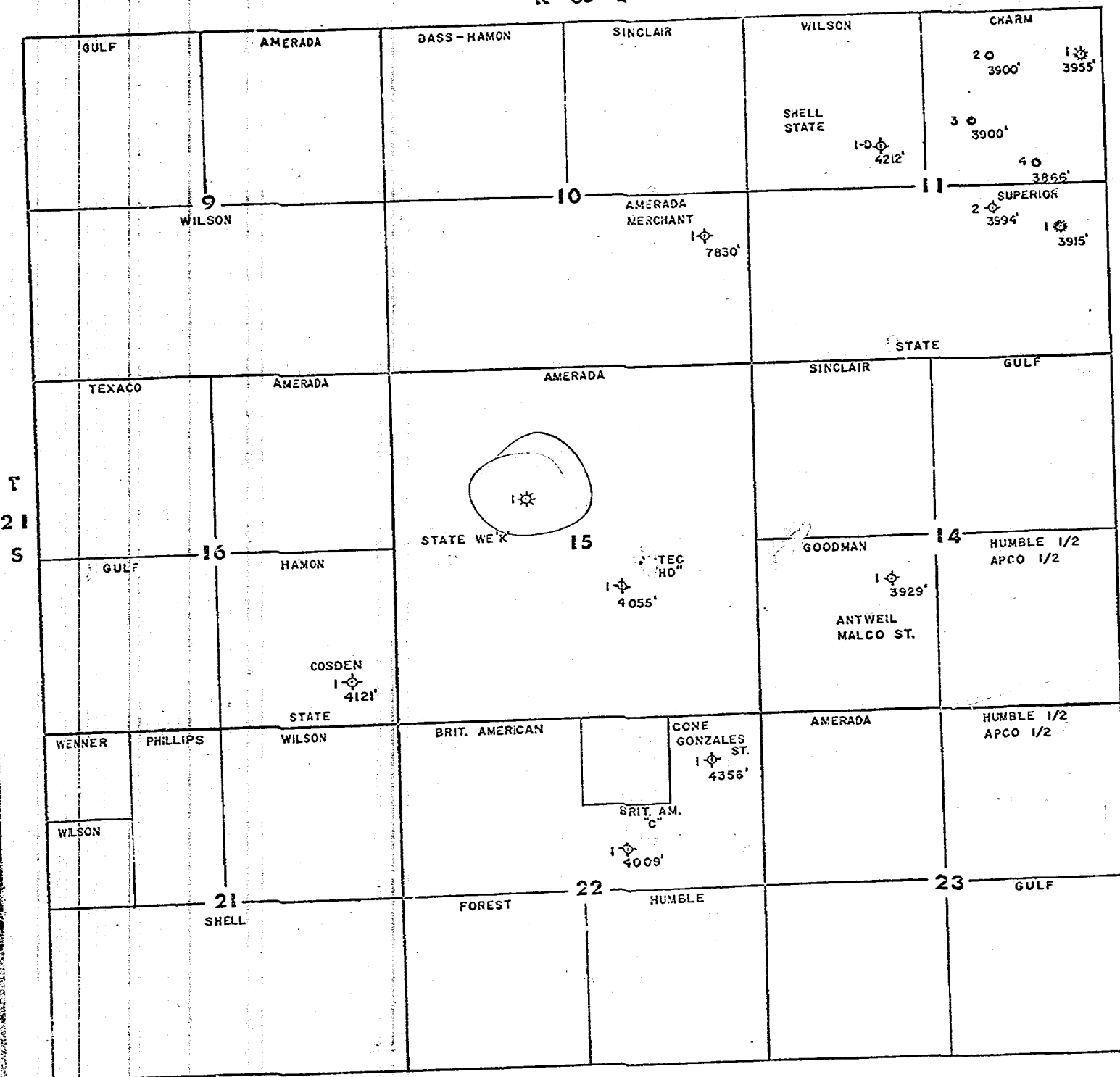
My Commission Expires:

June 19, 1971.

I do hereby certify that the foregoing is a complete record of the proceedings in the Executive Hearing of Case No. 36,000, heard by me on June 28, 1967.

Wesley H. [Signature] Secretary
New Mexico Oil Conservation Commission

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AMERADA PETROLEUM CORPORATION SOUTH OSUDO AREA

LEA COUNTY, NEW MEXICO

SCALE 1" = 2000'

BEFORE EXAMINER UTZ
OIL CONSERVATION COMMISSION
EXHIBIT NO. 1
CASE NO. 9602

AMERADA PETROLEUM CORPORATION
State WE"K" No. 1
Section 15, T-21-S, R-35-E
Lea County, New Mexico

WOLFCAMP ZONE

Perforations from 10,899' to 10,951'

DST from 10,890' to 10,922'

Flowed 1390 Mcfpd and recovered 450 feet of condensate and condensate cut drilling mud.

Final build-up pressure 4610 psi

Well test 5-24-67

Flowed 33 barrels condensate and 51 barrels load water in 24 hours. Gas volume 626 Mcfpd. Condensate gravity 47.5° API. *g, 1732*

MORROW ZONE

Perforations from 12,004' to 12,077'

DST from 11,874' to 12,139'

Flowed 29 barrels of water cushion. Flowing drill pipe pressure increased from 500 psi to 1500 psi. Recovered 677 feet of condensate and condensate cut drilling mud.

Final build-up pressure 7354 psi.

Well test 5-15-67

Flowed 66 barrels condensate in 5 hours. Gas volume 4102 Mcfpd. Condensate gravity 53.6° API.

BEFORE EXAMINER UTZ

SECTION 15, T-21-S, R-35-E

App. 10/10/67
3601

AMERADA PETROLEUM CORPORATION

STATE WE "K" NO. 1

Unit "P", Sec. 15, T-21S, R-35E
LEA COUNTY, NEW MEXICO

