

CASE 2535: Application of AMERADA  
for a quadruple completion and a  
non-standard gas proration unit.

452 / 10.

2535

dition, Transcript,  
all Exhibits, Etc.

GOVERNOR  
EDWIN L. MECHEM  
CHAIRMAN

State of New Mexico  
Oil Conservation Commission

LAND COMMISSIONER  
E. S. JOHNNY WALKER  
MEMBER



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

P. O. BOX 871  
SANTA FE

May 3, 1962

Mr. Jason Kellahin  
Kellahin & Fox  
Box 1713  
Santa Fe, New Mexico

Re: Case No. 2535  
Order No. R-2228  
Applicant:  
Amarada Petroleum Corporation

Dear Sir:

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

Very truly yours,

A handwritten signature in cursive script that reads "A. L. Porter, Jr.".

A. L. PORTER, Jr.  
Secretary-Director

ir/

Carbon copy of order also sent to:

Hobbs OCC   x  

Artesia OCC           

Aztec OCC           

OTHER

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. 2535  
Order No. R-2228

APPLICATION OF AMERADA PETROLEUM  
CORPORATION FOR A QUADRUPLE COMPLE-  
TION AND A NON-STANDARD GAS PRORA-  
TION UNIT, LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on April 25, 1962, at Santa Fe, New Mexico, before Elvis A. Utz, Examiner duly appointed by the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission," in accordance with Rule 1214 of the Commission Rules and Regulations.

NOW, on this 3rd day of May, 1962, the Commission, a quorum being present, having considered the application, the evidence adduced, and the recommendations of the Examiner, Elvis A. Utz, 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 permission to complete its L. G. Warlick "A" Well No. 1, located in Unit I of Section 19, Township 21 South, Range 37 East, NMPM, Lea County, New Mexico, as a quadruple completion (combination) in the Eumont Gas, Blinbry Oil, Penrose-Skelly Oil and Drinkard Oil Pools with the production of oil from the Drinkard and Penrose-Skelly formations to be through parallel strings of 2 7/8-inch casing, the production of oil from the Blinbry formation to be through a string of 1 1/4-inch tubing set within a string of 2 7/8-inch casing, and the production of gas from the Eumont formation to be through the 2 7/8 x 1 1/4-inch casing-tubing annulus.
- (3) That the mechanics of the proposed quadruple completion are feasible and in accord with good conservation practices.
- (4) That the applicant further seeks the establishment of a 160-acre non-standard gas proration unit in the Eumont Gas Pool comprising the S/2 NE/4 and the N/2 SE/4 of said Section 19, to which unit the Eumont zone of the subject well will be dedicated.

-2-

CASE No. 2535  
Order No. R-2228

(5) That approval of the subject application will neither cause waste nor impair correlative rights.

IT IS THEREFORE ORDERED:

(1) That the applicant, Amerada Petroleum Corporation, is hereby authorized to complete its L. G. Warlick "A" Well No. 1, located in Unit I of Section 19, Township 21 South, Range 37 East, NMPM, Lea County, New Mexico, as a quadruple completion (combination) in the Eumont Gas, Blinebry Oil, Penrose-Skelly Oil and Drinkard Oil Pools with the production of oil from the Drinkard and Penrose-Skelly formations to be through parallel strings of 2 7/8-inch casing, the production of oil from the Blinebry formation to be through a string of 1 1/4-inch tubing set within a string of 2 7/8-inch casing, and the production of gas from the Eumont formation to be through the 2 7/8 x 1 1/4-inch casing-tubing annulus.

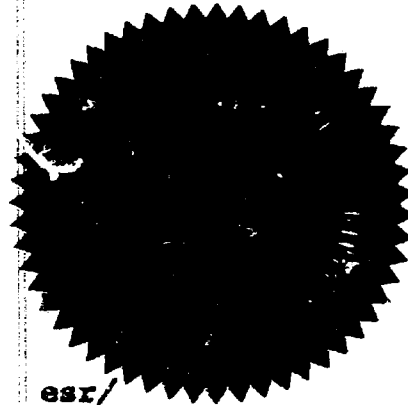
PROVIDED HOWEVER, That the applicant shall complete, operate, and produce said well in accordance with the provisions of Rule 112-A of the Commission Rules and Regulations.

PROVIDED FURTHER, That the applicant shall conduct packer-leakage tests and zone segregation tests upon completion and annually thereafter during the Annual Gas-Oil Ratio Test Period for the Drinkard zone, and at such other times as the Secretary-Director of the Commission may prescribe.

(2) That a 160-acre non-standard gas proration unit in the Eumont Gas Pool is hereby established, consisting of the S/2 NE/4 and the N/2 SE/4 of said Section 19, to which unit the Eumont zone of the subject well shall be dedicated.

(3) 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

*[Signature]*  
EDWIN L. MECHEM, Chairman

*[Signature]*  
E. S. WALKER, Member

*[Signature]*  
A. L. PORTER, Jr., Member & Secretary

esr/

Case 2535  
Heard 4-25-62  
Rec. 4-26-62

1. Grant Amerada's request for  
a quadruple completion for:

Sumont - Gas & 1604 - NSP -  $1\frac{1}{4}$

Renou Spelly - Oil -  $2\frac{7}{8}$

Blinby - Oil -  $2\frac{7}{8} \times 1\frac{1}{4}$  annulus.

Drinked - Oil -  $(2\frac{7}{8})$

2. ~~3. 3. 3. 3.~~ (Conventional & Tubingless)  
completion.

3. Use usual requirements & order  
for Tubingless completions.

4. NSP is  $S\frac{1}{2} E\frac{1}{4} \& N\frac{1}{2} SE\frac{1}{4} - 19-21S-37E$

Thurston

No. 13-62

DOCKET: EXAMINER HEARING - WEDNESDAY - APRIL 25, 1962

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, as alternate Examiner:

- CASE 2532: Application of Zapata Petroleum Corporation for two additional injection wells, Maljamar Pool, Lea County, New Mexico. Applicant, in the above-styled cause, seeks permission to convert its Phillips 8-B Wells No. 3 and 5 located respectively in Units H and B, Section 19, Township 17 South, Range 33 East, Lea County, New Mexico, to water injection wells in its pilot waterflood project in the Maljamar (Grayburg-San Andres) Pool authorized by Order No. R-2157.
- CASE 2533: Application of Amerada Petroleum Corporation for a pressure maintenance project, Lea County, New Mexico. Applicant, in the above-styled cause, seeks permission to institute a pressure maintenance project in that portion of the Saunders Permo-Pennsylvanian Pool underlying the S/2 S/2 of Section 3 and N/2 of Section 10, Township 15 South, Range 33 East, Lea County, New Mexico, with the injection of water into the Pennsylvanian formation initially to be through one well located in the NE/4 NW/4 of said Section 10.
- CASE 2534: Application of Amerada Petroleum Corporation for a quadruple completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks permission to complete its State NJ "A" Well No. 3 located in Unit A of Section 2, Township 25 South, Range 37 East, Lea County, New Mexico, as a quadruple completion (combination) in the San Andres, Blinebry, Drinkard and Devonian formations in the North Justis Field with the production of oil from the Devonian and Drinkard formations to be through separate strings of 1 1/2-inch tubing set within parallel strings of 3 1/2-inch casing, and the production of oil from the Blinebry formation through a parallel string of 2 7/8-inch casing; applicant proposes to dispose of salt water into the San Andres formation through a parallel string of 2 3/8-inch casing.
- CASE 2535: Application of Amerada Petroleum Corporation for a quadruple completion and a non-standard gas proration unit, Lea County, New Mexico. Applicant, in the above-styled cause, seeks permission to complete its L. G. Warlick "A" Well No. 1, located in Unit I of Section 19, Township 21 South, Range 37 East, Lea County, New Mexico, as a quadruple completion

(combination) in the Eumont Gas, Blinebry Oil, Penrose-Skelly Oil and Drinkard Oil Pools with the production of oil from the Drinkard and Penrose-Skelly formations to be through parallel strings of 2 7/8-inch casing, the production of oil from the Blinebry formation through a string of 1 1/4-inch tubing set within another parallel string of 2 7/8-inch casing and the production of gas from the Eumont formation through the casing-tubing annulus. Applicant further seeks the establishment of a 160-acre non-standard gas proration unit in the Eumont Gas Pool comprising the S/2 NE/4 and the N/2 SE/4 of said Section 19, said unit to be dedicated to said L. G. Warlick "A" Well No. 1.

CASE 2536:

Application of William A. & Edward R. Hudson for a secondary recovery project, Maljamar Pool, Eddy County, New Mexico. Applicants, in the above-styled cause, seek permission to institute a secondary recovery project in the Maljamar Pool in an area underlying their Puckett "A" and "B" Leases located in Section 24, Township 17 South, Range 31 East, Eddy County, New Mexico, with the injection of water into the Grayburg-San Andres formation initially to be through six wells, said project to be governed by the provisions of Rule 701.

CASE 2537:

Application of J. C. Williamson for a dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks permission to complete its Westates-Federal Well No. 8 located in Unit E of Section 1, Township 25 South, Range 37 East, Lea County, New Mexico, as a dual completion (conventional) in the North Justis-McKee Pool and an undesignated Montoya pool with the production of oil from both zones to be through parallel strings of tubing.

CASE 2538:

Application of Southwest Production Company for a non-standard oil proration unit, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks the establishment of a 73.89-acre non-standard oil proration unit in the Cha Cha-Gallup Oil Pool comprising the NE/4 SE/4 and that portion of the NW/4 SE/4 lying North of the mid-channel of the San Juan River, of Section 16, Township 29 North, Range 14 West, San Juan County, New Mexico, said unit to be dedicated to the Foutz-State Well No. 1, located 1912 feet from the South line and 2310 feet from the East line of said Section 16.



- CASE 2539: Application of Pan American Petroleum Corporation for an exception to Order No. R-333-E, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks an exception to Order No. R-333-E to permit the extension of the terminal date for the 1961 deliverability test period from December 15, 1961, to March 1, 1962, for ten wells located in Townships 27 and 28 North, Ranges 10 and 11 West, San Juan County, New Mexico.
- CASE 2540: Application of Pan American Petroleum Corporation for a triple completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks permission to complete its State "CK" Well No. 2, located in the NE/4 SW/4 of Section 19, Township 21 South, Range 37 East, Lea County, New Mexico, as a triple completion in the Drinkard, Blinebry and Paddock Oil Pools with the production of oil from the Blinebry and Drinkard formations and the production of undetermined hydrocarbons from the Paddock formation.
- CASE 2541: Application of J. Glenn Turner for a dual completion, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks permission to complete its Ballard Well No. 11-15 located in Unit D of Section 15, Township 26 North, Range 9 West, San Juan County, New Mexico, as a dual completion (conventional) in the Basin-Dakota Gas Pool and an undesignated Gallup oil pool with the production of gas from the Dakota formation and the production of oil from the Gallup formation to be through parallel strings of 2 1/16-inch tubing.
- CASE 2542: Application of La Plata Gathering System, Inc. for a dual completion, a non-standard gas proration unit, and an unorthodox gas well location, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks permission to complete a gas well to be located at an unorthodox gas well location 1980 feet from the South line and 734 feet from the East and West lines of Section 19, Township 32 North, Range 5 West, Rio Arriba County, as a dual completion (conventional) in the Blanco-Mesaverde and Basin-Dakota Gas Pools with the production of gas from the Dakota formation to be through a string of 2 1/16-inch tubing and the production of gas from the Mesaverde formation to be through a parallel string of 1 1/2-inch tubing. Applicant further seeks the establishment of a 355.25-acre non-standard gas proration unit in the aforesaid pools comprising all of Sections 18 and 19, in said township to be dedicated to the above-described well.

- CASE 2543: Application of G. W. Strake for a dual completion, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks permission to complete its LeBow-Federal Well No. 6 located in Unit I of Section 25, Township 19 South, Range 30 East, Eddy County, New Mexico, as a dual completion (conventional) in the North Hackberry-Yates and Hackberry-Seven Rivers Pools with the production of oil from both formations to be through parallel strings of 2 1/16-inch tubing.
- CASE 2544: Application of Perry R. Bass for a unit agreement, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the Plains Unit Agreement embracing 7,198.01 acres, more or less, of federal lands in Township 19 South, Range 32 East, Lea County, New Mexico.
- CASE 2545: Application of The British American Oil Producing Company for a unit agreement, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the Jalmat Field-Yates Sand Unit Agreement embracing 2,760 acres, more or less, of State and fee lands in Township 22 South, Range 35 East, Lea County, New Mexico.
- CASE 2546: Application of The British American Oil Producing Company for a waterflood project, Lea County, New Mexico. Applicant, in the above-styled cause, seeks permission to institute a waterflood project in the Yates formation in the Jalmat Pool in an area underlying its proposed Jalmat Field-Yates Sand Unit Area, comprising 2,760 acres, more or less, in Township 22 South, Range 35 East, Lea County, New Mexico, with injection of water initially to be through 16 wells located within said unit area, the project to be governed by the provisions of Rule 701.

BEFORE THE OIL CONSERVATION COMMISSION OF  
THE STATE OF NEW MEXICO

APPLICATION OF AMERADA PETROLEUM  
CORPORATION FOR A PRESSURE MAIN-  
TENANCE PROJECT, LEA COUNTY, NEW  
MEXICO.

Case No. 2533

APPLICATION OF AMERADA PETROLEUM  
CORPORATION FOR A QUADRUPLE COM-  
PLETION, LEA COUNTY, NEW MEXICO.

Case No. 2534

APPLICATION OF AMERADA PETROLEUM  
CORPORATION FOR A QUADRUPLE COM-  
PLETION AND A NON-STANDARD GAS  
PRODUCTION UNIT, LEA COUNTY, NEW  
MEXICO.

Case No. 2535

ENTRY OF APPEARANCE

Come and KELLAHIN & FOX, P. O. Box 1713, Santa Fe, New  
Mexico, and enter their appearance in the above-captioned case  
on behalf of Amerada Petroleum Corporation in association with  
Mr. H. D. Bushnell, a member of the Oklahoma Bar.

/s/ Jason W. Kellahin  
JASON W. KELLAHIN

April 4, 1962

IN THE MATTER OF THE APPLICATION OF  
AMERADA PETROLEUM CORPORATION FOR AN  
ORDER PERMITTING THE MULTIPLE COM-  
PLETION OF ITS L. G. WARLICK "A" NO. 1  
LOCATED IN UNIT 1 SEC. 19, T-21-S,  
R-37-E, IN THE EUMONT, PENROSE SKELLY,  
BLINEBRY AND DRINKARD POOLS AND FOR A  
160 ACRE NON-STANDARD GAS PRORATION  
UNIT IN THE EUMONT POOL, CONSISTING  
OF S/2 OF NE/4 AND N/2 OF SE/4 SECTION  
19, T-21-S, R-37-E, LEA COUNTY, NEW  
MEXICO.

CASE NO. 22075

A P P L I C A T I O N

Applicant, Amerada Petroleum Corporation, states that

1. Applicant is the operator and part owner of the L. G. Warlick Lease described as the S/2 of NE/4 and the L. G. Warlick "A" Lease described as the N/2 of SE/4, both leases being in Sec. 19, T-21-S, R-37-E, Lea County, New Mexico.
2. Applicant proposes the completion (conventional and Tubingless) of its L. G. Warlick "A" No. 1 located in Unit 1 Sec. 19, T-21-S, R-37-E, Lea County, New Mexico as a Eumont Gas, Blinebry Oil, Penrose Skelly Oil and Drinkard Oil well.
3. Applicant proposes the creation of a 160 acre non-standard gas proration unit consisting of the S/2 of NE/4 and the N/2 of SE/4 of Sec. 19, T-21-S, R-37-E for the Eumont completion in subject well.
4. Three strings of 2-7/8" casing will be cemented in the common well bore with top of cement being above all potential pays.
5. All standards adopted by the Commission concerning completion and production practices shall be adhered to. Such completion will maintain separation in the several common sources of supply in a manner that will prevent waste and protect the rights of all parties concerned.
6. A multiple completion has not previously been approved between the zones under consideration. Hearing is also required for this completion since one string of tubing is smaller than 1.670" I.D.
7. Copies of the Commission's Multiple Completion Form, Plat of Area and Schematic Diagram of the proposed installation are attached.

Applicant requests that this matter be set for hearing, that notice of the hearing be given as required by law, and that, upon conclusion of the hearing, the Commission issue its order authorizing the above proposals.

Respectfully Submitted

AMERADA PETROLEUM CORPORATION

By Jean W. Kellahin  
KELLAHIN & FOX  
P. O. Box 1713  
Santa Fe, New Mexico

Attorneys for Applicant

## NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

7-3-58

APPLICATION FOR DUAL COMPLETION *Case 2535*

Field Name <b>Eunice Area</b>		County <b>Lea</b>	Date <b>April 4, 1962</b>
Operator <b>Amerada Petroleum Corporation</b>		Lease <b>L. G. Warlick "A"</b>	Well No. <b>1</b>
Location of Well	Unit <b>I</b>	Section <b>19</b>	Township <b>21-S</b>
			Range <b>37-E</b>

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 **No**

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	<b>Kumont</b>	<b>Blindley</b>
b. Top and Bottom of Pay Section (Perforations)	<b>3385' to 3636'</b>	<b>5588' to 5942'</b>
c. Type of production (Oil or Gas)	<b>Gas</b>	<b>Oil</b>
d. Method of Production (Flowing or Artificial Lift)	<b>Flowing</b>	<b>Flowing</b>

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.\*
- No** 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.

<b>Gulf Oil Corporation</b>	<b>P. O. Box 1150</b>	<b>Midland, Texas</b>
<b>Sunray-Mid Continent</b>	<b>1101 Wilco Bldg.</b>	<b>Midland, Texas</b>
<b>Neville G. Penrose, Inc.</b>	<b>Midland Tower Bldg.</b>	<b>Midland, Texas</b>
<b>W. H. Perry</b>	<b>3301 S. 5th Street</b>	<b>Abilene, Texas</b>

6. Were all operators listed in Item 5 above notified and furnished a copy of this application? YES \_\_\_\_\_ NO **No**. If answer is yes, give date of such notification \_\_\_\_\_.

CERTIFICATE: I, the undersigned, state that I am the \_\_\_\_\_ of the \_\_\_\_\_ (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.

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.

NOTE: 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.

## NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

7-3-58

APPLICATION FOR DUAL COMPLETION *Page 2535*

Field Name <b>Dunice Area</b>		County <b>Lea</b>		Date <b>April 4, 1962</b>
Op. .... <b>Amerada Petroleum Corporation</b>		Lease <b>L. G. Warlick "A"</b>		Well No. <b>1</b>
Location of Well	Unit <b>I</b>	Section <b>19</b>	Township <b>21-S</b>	Range <b>37-E</b>

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 \_\_\_\_\_

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	<b>Penrose Skelly</b>	<b>Drinkard</b>
b. Top and Bottom of Pay Section (Perforations)	<b>3756' to 3796'</b>	<b>6594' to 6664'</b>
c. Type of production (Oil or Gas)	<b>Oil</b>	<b>Oil</b>
d. Method of Production (Flowing or Artificial Lift)	<b>Flowing</b>	<b>Flowing</b>

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

- \_\_\_\_\_ 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.
- \_\_\_\_\_ 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.
- \_\_\_\_\_ 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.\*
- \_\_\_\_\_ 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.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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

CERTIFICATE: I, the undersigned, state that I am the **District Superintendent** of the **Amerada Petroleum Corp.** (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.

**D. C. Capps**

*D.C. Capps*  
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.

NOTE: 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.



DEARNLEY-MEIER REPORTING SERVICE, Inc.

FARMINGTON, N. M.  
PHONE 325-1182

ALBUQUERQUE, N. M.  
PHONE 243-6691

BEFORE THE  
OIL CONSERVATION COMMISSION  
Santa Fe, New Mexico

April 25, 1962

EXAMINER HEARING

IN THE MATTER OF:

Application of Amerada Petroleum Corporation for a  
quadruple completion and a non-standard gas pro-  
ration unit, Lea County, New Mexico. Applicant, in  
the above-styled cause, seeks permission to complete ) CASE  
its L. G. Warlick "A" Well No. 1, located in Unit I ) 2535  
of Section 19, Township 21 South, Range 37 East, Lea  
County, New Mexico, as a quadruple completion  
(combination) in the Eumont Gas, Blinebry Oil, Penrose-  
Skelly Oil and Drinkard Oil Pools with the production  
of oil from the Drinkard and Penrose-Skelly formations  
to be through parallel strings of 2 7/8-inch casing, the  
production of oil from the Blinebry formation through  
a string of 1 1/4-inch tubing set within another  
parallel string of 2 7/8-inch casing and the pro-  
duction of gas from the Eumont formation through the  
casing-tubing annulus. Applicant further seeks the  
establishment of a 160-acre non-standard gas proration  
unit in the Eumont Gas Pool comprising the S/2 NE/4 and  
the N/2 SE/4 of said Section 19, said unit to be  
dedicated to said L. G. Warlick "A" Well No. 1.

BEFORE: Elvis A. Utz, Examiner.

TRANSCRIPT OF HEARING

MR. UTZ: Case 2535.

MR. MORRIS: Application of Amerada Petroleum  
Corporation for a quadruple completion and a non-standard gas  
proration unit, Lea County, New Mexico.

MR. BUSHNELL: H. D. Bushnell in association with  
Kellahin and Fox appearing for Applicant. I have one witness.

MR. MORRIS: Let the record show that the witness has





DEARNLEY-MEIER REPORTING SERVICE, Inc.

FARMINGTON, N. M.  
PHONE 325.1182

ALBUQUERQUE, N. M.  
PHONE 243.6691

been previously sworn.

MR. UTZ: Are there other appearances in this case? You may proceed.

MR. BUSHNELL: The purpose of this application is to obtain permission for a multiple completion pursuant to statewide Rule 112 in a pool where no such similar multiple completions have been permitted or authorized. Also, to obtain permission to use tubing smaller than 1.670 I.D. Also, to authorize a non-standard unit.

A. E. SNYDER,

called as a witness herein, having been previously duly sworn on oath, was examined and testified as follows:

DIRECT EXAMINATION

BY MR. BUSHNELL:

Q Would you state your name and company for which you are employed?

A A. E. Snyder. Amerada Petroleum Corporation, Hobbs, New Mexico.

Q What capacity?

A District Engineer.

Q Have you testified in that capacity in prior Hearings before this Commission?

A Yes, sir.

(Whereupon, Applicant's Exhibit No. 1 Marked for Identification)



DEARNLEY-MEIER REPORTING SERVICE, Inc.

FARMINGTON, N. M.  
PHONE 325-1182

ALBUQUERQUE, N. M.  
PHONE 243-6601

Q I hand you what has been identified as Amerada Exhibit No. 1 and ask you to state what it is and what it shows.

A Exhibit No. 1 is a plat showing the location of the proposed multiple completed well, Amerada's Warlick "A" No. 1, located in Unit I, Section 19, Township 21 South, Range 37 East, Lea County, New Mexico. It also shows the leasehold and the area surrounding this well, the location of the wells and the designation of zones that they're completed in.

Q It also shows, encircled in red, the well subject of this application?

A Yes.

Q When was the L. G. Warlick "A" No. 1 Well spudded?

A On January 12th, 1962.

(Whereupon, Applicant's Exhibit No. 2  
Marked for Identification.)

Q I hand you what has been identified as Amerada's Exhibit No. 2 and ask you to state what that is and what it shows?

A Exhibit No. 2 is a gamma ray acoustic log of Amerada's L. G. Warlick "A" No. 1. On this log are shown the tops of the various intervals of production proposed in our application, starting at 2,607 feet as the top of the Yates or the Eumont Gas zone, and Eumont perforations are from the zone 3,385 to 3,636, and they're selective perforations, and the top of the Grayburg or Penrose-Skelly producing formation is 3,650 with completion perforations from 3,756 to 3,796, top of the Blinbry zone at 5,588, and



selective Blinebry perforations from 5,588 to 5,942, top of the Drinkard zone at 6,324, with selective Drinkard perforations 6,594 to 6,664.

(Whereupon, Applicant's Exhibit No. 3 Marked for Identification)

Q I hand you what has been identified as Amerada's Exhibit No. 3 and ask you to state what that is and what it shows.

A Exhibit No. 3 is a schematic diagram of the installation in subject well. Again, it shows the tops of the zones of interest, the perforated intervals and the casing and tubing design. The 9-5/8-inch casing was set 1,252 feet with 800 sacks of cement which circulated, then one string of 2-7/8-inch was set at 6,759. Number two string was also set at 6,759 and it is 2-7/8-inch casing. The number three is 2-7/8-inch casing set at 6,749. These three strings of casing were cemented in the common well bore with 1,133 sacks which brought the top of the cement to 1,320 feet. The number three string of casing as you'll note has dual completion within it which necessitated running one string of 1-1/4-inch tubing set at 5,560 feet on a packer and has an Otis Sliding Sleeve at 5,556. The Blinebry production will go through 1-1/4-inch tubing and the Eumont gas production will be annular space between the 1-1/4-inch tubing and 2-7/8-inch casing.

Q Did you use any particular method in cementing?

A Our method of cementing was one approved by the Commission, running turbulizers in the possible zones of

DEARNLEY-MEIER REPORTING SERVICE, Inc.

FARMINGTON, N. M.  
PHONE 325-1182

ALBUQUERQUE, N. M.  
PHONE 243-6691



DEARNLEY-MEIER REPORTING SERVICE, Inc.

FARMINGTON, N. M.  
PHONE 325-1182

ALBUQUERQUE, N. M.  
PHONE 243-6691

completion 100 feet above and below and pumping cement down two strings of casing followed by plugs.

Q Would you give the Completion Data?

A Starting on the left, the Drinkard completion has actually been completed and the potential test, it flowed 182 barrels of 30.7 degree API oil in 24 hours, on a quarter inch choke, 600 pounds tubing pressure and gas-oil ratio 1,968.

Q As for the Penrose-Skelly?

A The Penrose-Skelly, although it has not officially been completed, was tested, flowed 165 barrels of 37 degree oil and 15 barrels of water for 24 hours on a 18/64 choke, 300 pounds tubing pressure, gas-oil ratio 1,700. The Blinebry completion flowed 94 barrels of 38.9 degree oil in 24 hours on 18/64 choke, 950 pounds tubing pressure, and gas-oil ratio 7,800. The Eumont Gas completion was acidized and fracked and has not recovered all of the load oil. It's still flowing load oil with gas. The gas is increasing on it.

MR. PORTER: My Snyder, could you give me the oil production in the Blinebry zone?

A Yes. 94 barrels.

Q (By Mr. Bushnell) What are the bottom hole pressures?

A The bottom hole pressure in the Blinebry zone at a sub-sea datum of minus 2,400 feet was 2,072 pounds. In the Penrose-Skelly at a sub-sea datum of minus 267 was 1,190 pounds. In the Drinkard



DEARNLEY-MEIER REPORTING SERVICE, Inc.

FARMINGTON, N. M.  
PHONE 325-1182

ALBUQUERQUE, N. M.  
PHONE 243-6691

at a sub-sea datum of minus 3050 was 1,326 pounds. The Eumont zone, of course, we were not able to determine a bottom hole. When the well cleans up, we'll be able to determine a surface shut-in pressure as a gas well.

MR. UTZ: Do you just estimate?

A No.

Q (by Mr. Bushnell) Is it your opinion that the method of completion as shown on Exhibit No. 3 will maintain separation of the common sources?

A Yes.

Q Is this method of multiple completion one that meets the standard of the industry?

A Yes, sir.

Q By this application you are also asking for approval to use tubing smaller than 1.670, referring to your Exhibit No. 3, I think you've already explained where you are using the small tubing. Would you state why you have used it?

A This is the only practical size of tubing that could be run in the size of casing that we have.

Q You are also, by this application, asking for permission to establish a non-standard unit. Referring to Exhibit No. 1, have you indicated there your ownership map in red the proposed area?

A Yes, sir.

Q What is the description of that area?



**DEARNLEY-MEIER REPORTING SERVICE, Inc.**

FARMINGTON, N. M.  
PHONE 325.1182

ALBUQUERQUE, N. M.  
PHONE 243.6691

A This is proposed 160-acre non-standard unit for the Eumont completion, would be composed of Amerada's Warlick lease, which is described as the South Half of the Northeast quarter of Section 19, Amerada Gas Warlick "A" Lease, described as the North Half of the Southeast quarter of Section 19, Township 21 South, Range 37 East, Lea County, New Mexico.

Q Is it your opinion that all of this area is underlain by the Eumont?

A Yes, sir.

Q And what evidence do you have to support that conclusion?

A On Exhibit 1, let me call your attention to some other wells that are completed in the Eumont, Unit F, of Section 20, 21, 37, is the Eumont completion on Amerada and Rodman's Randall "A" lease; to the north of the proposed unit in Unit A of Section 19, Penrose Oil Company has a Eumont Gas completion in the No. 1 Well; to the west Gulf Oil Corporation's Eunice Unit No. 1 in Unit K of Section 19 is a Eumont completion; to the south in Section 30, Unit C, Texaco's Henderson No. 4 is a Eumont completion. This effectively gives Eumont pay on four sides of the proposed well, leaving only directly to the east without a Eumont completion. I believe from this I would draw the conclusion that the entire 160 acres could be assumed to be productive from the Eumont.

Q Were these exhibits prepared by you or by someone under your supervision?



DEARNLEY-MEIER REPORTING SERVICE, Inc.

FARMINGTON, N. M.  
PHONE 325-1182

ALBUQUERQUE, N. M.  
PHONE 243-6691

A Yes, sir.

MR. BUSHNELL: I offer Exhibits 1 through 3.

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

(Whereupon, Applicant's Exhibits Nos. 1 through 3 admitted into Evidence.)

MR. BUSHNELL: That's all.

CROSS EXAMINATION

BY MR. UTZ:

Q Do you have the I.D. and your O.D. of your inch and a quarter?

A The O.D. is 1.66 on the 1-1/2 and the I.D. is 1.38.

Q Do you have the I.D. on the 2-7/8?

A The I.D. is 2.441.

Q Gives you approximately a 3/4-inch annular space?

A Yes, sir.

Q Do you anticipate any trouble with that small an annular space?

A No. As a gas well, we feel there would be no problem in flowing the gas. If liquids are produced, we feel it would be similar to flowing through the tubing, so we anticipate no trouble also.

Q You anticipate a gas well?

A Yes.

Q In the 68 foot interval between the bottom of your 9-5/8



DEARNLEY-MEIER REPORTING SERVICE, Inc.

FARMINGTON, N. M.  
PHONE 325-1182

ALBUQUERQUE, N. M.  
PHONE 243-6691

and the top of the cement on your small strings do you have any producing zones or water zones?

A No, sir.

MR. UTZ: Are there any other questions of the witness?

MR. MORRIS: Yes, sir.

MR. UTZ: Mr. Morris.

BY MR. MORRIS:

Q Mr. Snyder, I'm interested in the acreage dedication within Section 19 to their Eumont Wells. In the North Half of the Northeast quarter there's a Eumont Well. Is that 80 acres dedicated to that well?

A Yes, sir, that 80 in addition to the South Half of the Southeast quarter of Section 18. That well has 160 acres dedicated to it.

Q Yes. With respect to the Gulf Well in the Southwest quarter?

A The entire West Half of Section 19, 320 acres is dedicated to that well.

Q There is no Eumont Well in the South Half of the Southeast quarter, is there?

A No, sir.

Q Those wells are owned and operated by whom?

A An operator named Perry.

Q Mr. Perry is not going to share in the Eumont unless he drills a well and dedicates his 80 to it, that's the way it would





DEARNLEY-MEIER REPORTING SERVICE, Inc.

FARMINGTON, N. M.  
PHONE 325-1182

ALBUQUERQUE, N. M.  
PHONE 243-6691

appear?

A If he approaches Amerada on the subject I'm sure that we could work out something with him.

MR. MORRIS: Thank you.

BY MR. UTZ:

Q How about the dedication of Texaco to the south?

A That Texaco Well has the North Half of Section 30, being a full 320 acres.

Q And the Southwest quarter of Section 20 is not dedicated to a Eumont Well?

A No, sir.

Q Mr. Perry would have a possibility there, too, would he not?

A Yes.

Q In the unit that you propose here is the royalty and working interest common?

A No, sir, the working interest and royalty is diversified slightly and we're presently working out an agreement for unitization.

Q Would you notify the Commission when the unitization of this unit is complete?

A Yes, sir.

MR. UTZ: Are there any other questions? The witness may be excused.

(Witness excused)



MR. UTZ: Are there any statements in this case? The case will be taken under advisement.

STATE OF NEW MEXICO )  
 ) ss  
COUNTY OF BERNALILLO )

I, ADA DEARNLEY, Notary Public in and for the County of Bernalillo, New Mexico, do hereby certify that the foregoing and attached transcript of Hearing was reported by me in Stenotype and that the same was reduced to typewritten transcript under my personal supervision and contains a true and correct record of said proceedings, to the best of my knowledge, skill and ability.

*Ada Dearnley*  
NOTARY PUBLIC

My Commission Expires:

June 19th, 1963.

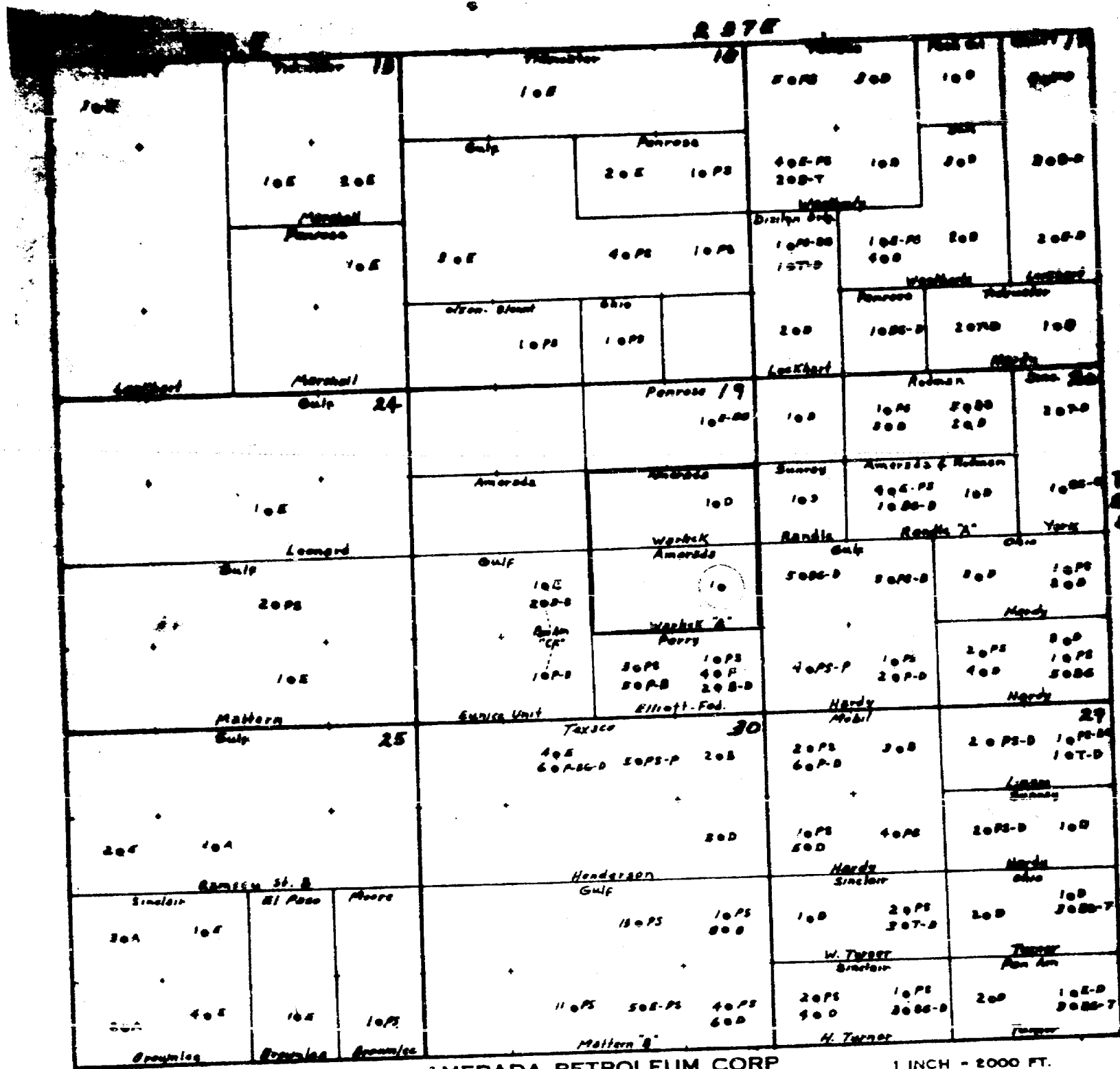
I do hereby certify that the foregoing is a complete record of the proceedings in the hearing of Case No. 2535, heard by me on Apr. 25, 1961.  
*John G. [Signature]*, Examiner  
New Mexico Oil Conservation Commission

DEARNLEY-MEIER REPORTING SERVICE, Inc.

FARMINGTON, N. M.  
PHONE 325-1182

ALBUQUERQUE, N. M.  
PHONE 243-6691

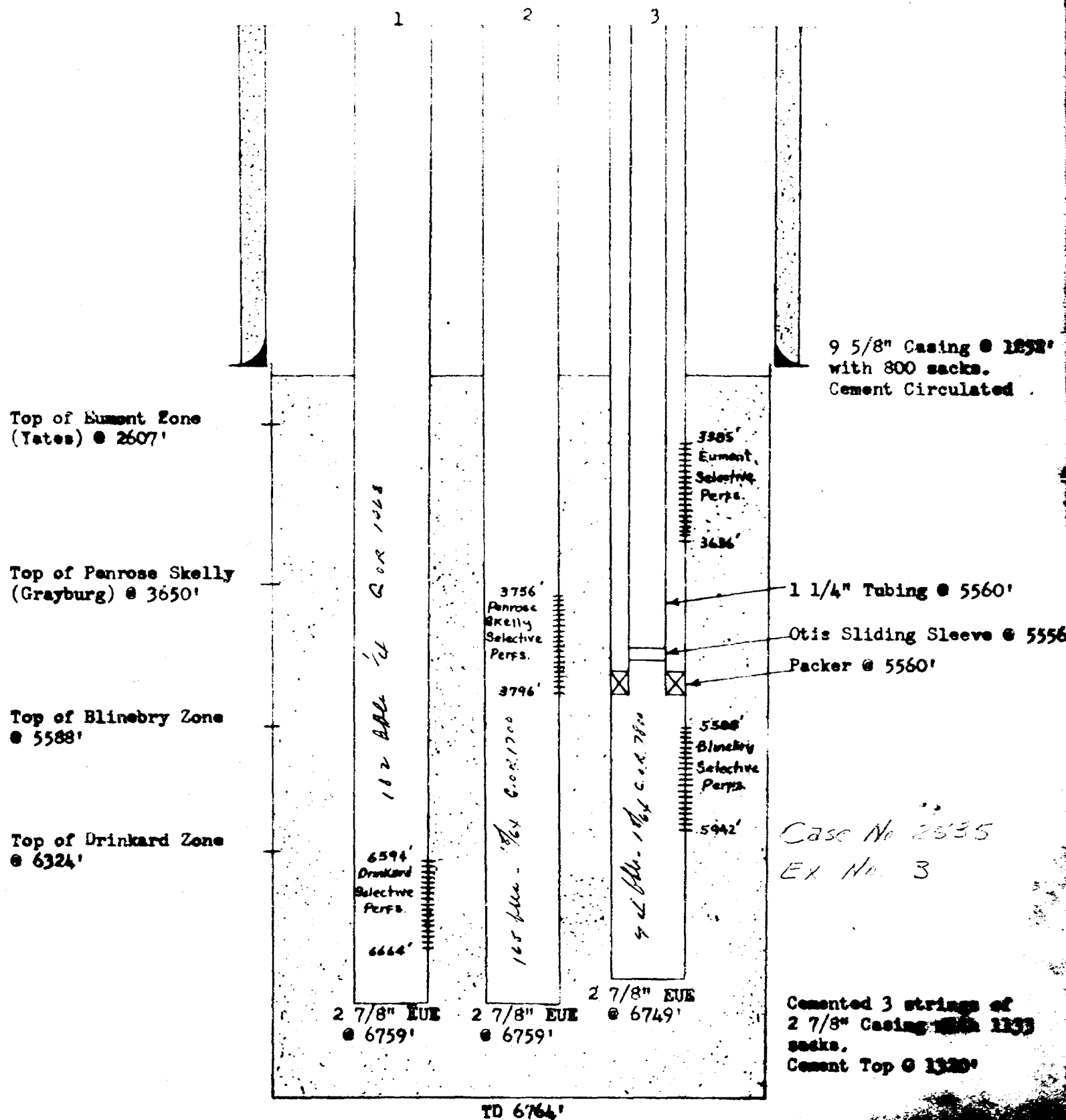




E - Eumont  
 A - Arrowhead  
 PS - Penrose Skelly  
 P - Paddock  
 B - Blinbry Oil  
 BG - Blinbry Gas  
 T - Tubb  
 D - Drinkard

FIELD West Eunice Area  
 STATE New Mexico  
 COUNTY Lea

AMERADA PETROLEUM CORPORATION  
 SCHEMATIC DIAGRAM OF MULTIPLE COMPLETION  
 L. G. WARLOCK "A" NO. 1  
 UNIT 1 SEC. 19 - T21S - R37E  
 IEA COUNTY, NEW MEXICO



WILLIAM A. & EDWARD R. HUDSON

WELL DATA - PROPOSED WATER IN UT WELLS  
MALJAMAR POOL, RIDDY COUNTY, NEW MEXICO

<u>WELL</u>	<u>COMPLETED</u>	<u>ELEVATION</u>	<u>TOTAL DEPTH</u>	<u>CASING</u>	<u>PERFORATIONS</u>	<u>TREATMENT</u>	<u>INITIAL POTENTIAL</u>
Puckett A #19	10-1-60	3915	4000'	8-5/8" - 605' - 100 ex. 5 1/4" - 3993 - 122 ex.	3857-67 3922-33 3953-56	F/5,000 gals. oil + 3,000# sand.	F 67 BO/11 hrs.
					3662-84 3694-3702	F/13,000 gals. oil + 20,000# - 2 stages.	F 22 BO/24 hrs.
					3520-30 3548-58	F/12,000 gals. oil + 14,000# sand - 2 stages.	F 40 BO/2 hrs.
Puckett A #20	11-7-60	3898	3963'	8-5/8" - 604' - 100 ex. 5 1/4" - 3959' - 350 ex.	3650-60 3696-3716	F/14,944 gals. oil + 8,270# sand.	F 51 BOPD.
Puckett A #21	2-11-61	3903	3945'	8-5/8" - 593' - 100 ex. 5 1/4" - 3907' - 350 ex.	3666-92 3469-77 3527-35	F/10,000 gals. oil + 10,800# sand. F/5,000 gals. oil + 2500# sand.	F 147 BO/19 1/2 hrs.
Puckett A #22	3-3-61	3909	3970'	8-5/8" - 604' - 100 ex. 5 1/4" - 3963' - 350 ex.	3686-3712 3578-8 holes	F/9,000 gals. oil + 8,500# sand. F/10,000 gals. oil + 16,000# sand.	F 139 BOPD. F 50 BOPD.
Puckett B #21		3884	3960'	8-5/8" - 780' - 100 ex. 5 1/4" - 3956' - 350 ex.	3668-84 3752-60	F/14,000 gals. oil + 15,000# sand in 2 stages.	Recovering load oil.