

CASE 2827: Application of TEXACO
for triple completion of its

Wm. A. R. R.

CASE No.

282

Application,
TRANSCRIPTS,
SMALL Exhibits
ETC.

Insert

③ Finishing:

Shall the gyp propose to circulate cement from total depth into the intermediate casing, to cement the intermediate casing into the surface casing, and ~~circulate~~ ^{circulate} the surface casing to the surface.

✓
DRAFT

JMD/esr
June ____, 1963

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. 2827

Order No. R-2500

APPLICATION OF TEXACO INC.
FOR A TRIPLE COMPLETION,
LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on June 5, 1963, 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 ____ day of June, 1963, 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, Texaco Inc., seeks authority to complete its State "O" Well No. 17, located in Unit N of Section 36, Township 17 South, Range 34 East, NMPM, Vacuum Field, Lea County, New Mexico, as a triple completion (combination) to produce oil from the Wolfcamp and Pennsylvanian formations through parallel strings of 2 7/8-inch casing and from the Devonian formation through 1 1/2-inch tubing installed within 3 1/2-inch casing, all casing strings to be cemented in a common well bore.

(3) (insert)
(4) (3) That the mechanics of the proposed triple completion, including the casing and tubing programs, are feasible and in accord with good conservation practices.

Order:

- Provided However, That cement shall be circulated from total depth into the intermediate casing, the intermediate casing shall be cemented into the surface casing, and the surface casing cement shall be circulated to the surface

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

IT IS THEREFORE ORDERED:

(1) That the applicant, Texaco Inc., is hereby authorized to complete its State "O" Well No. 17, located ^{200/50 219/100 line} in Unit N of Section 36, Township 17 South, Range 34 East, NMPM, Vacuum Field, Lea County, New Mexico, as a triple completion (combination) to produce oil from the Wolfcamp and the Pennsylvanian formations through parallel strings of 2 7/8-inch casing and from the Devonian formation through 1 1/2-inch tubing installed within 3 1/2-inch casing, all casing strings to be cemented in a common well bore. *provided however etc.*

Insert
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 zone segregation tests upon completion and annually thereafter during the Gas-Oil Ratio Test Period for the Devonian formation.

(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

JACK M. CAMPBELL, Chairman

E. S. WALKER, Member

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

1

Self handling

TEXACO
INC.

PETROLEUM PRODUCTS



P. O. Box 728
Hobbs, New Mexico
May 7, 1963

New Mexico Oil Conservation Commission
P. O. Box 871
Santa Fe, New Mexico

Re: Requested Revision to
Application for Triple
Completion, TEXACO Inc.,
State of New Mexico "O"
(NCT-1) Well No. 17, Lea
County, New Mexico

Attention: Mr. A. L. Porter, Jr.

Gentlemen:

should be NO 17

TEXACO Inc. respectfully requests revisions to the casing and cementing program proposed in Application for Triple Completion, TEXACO Inc., State of New Mexico "O" (NCT-1) Well No. 14, Lea County, approved by Administrative Order No. MC-1312. The requested change is to use 3-1/2 inch casing and 1-1/2 inch tubing in place of 4-1/2 inch casing and 2-3/8 inch tubing for producing the Devonian and to set the 2-7/8 inch Wolfcamp casing string at approximately 10,800 feet instead of at 10,500 feet. The 2-7/8 inch Pennsylvanian casing string is to be set at 10,800 feet as initially proposed. Instead of cementing down 4-1/2 inch casing only and using a two-stage cementing tool, TEXACO Inc. desires to cement down the 3-1/2 inch casing with 450 sacks of Class "C" neat cement for the first stage and down both 2-7/8 inch casing strings with 1750 sacks of Class "C", 4% gel, cement for the second stage.

A favorable reply to this request shall be appreciated. A revised diagrammatic sketch is attached and a

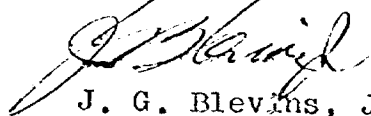
NMOCC

- 2 -

May 7, 1963

copy of this requested revision is being sent to each
offset operator on this date by registered mail.

Yours very truly,



J. G. Blevins, Jr.
Assistant District
Superintendent

WPY-b1

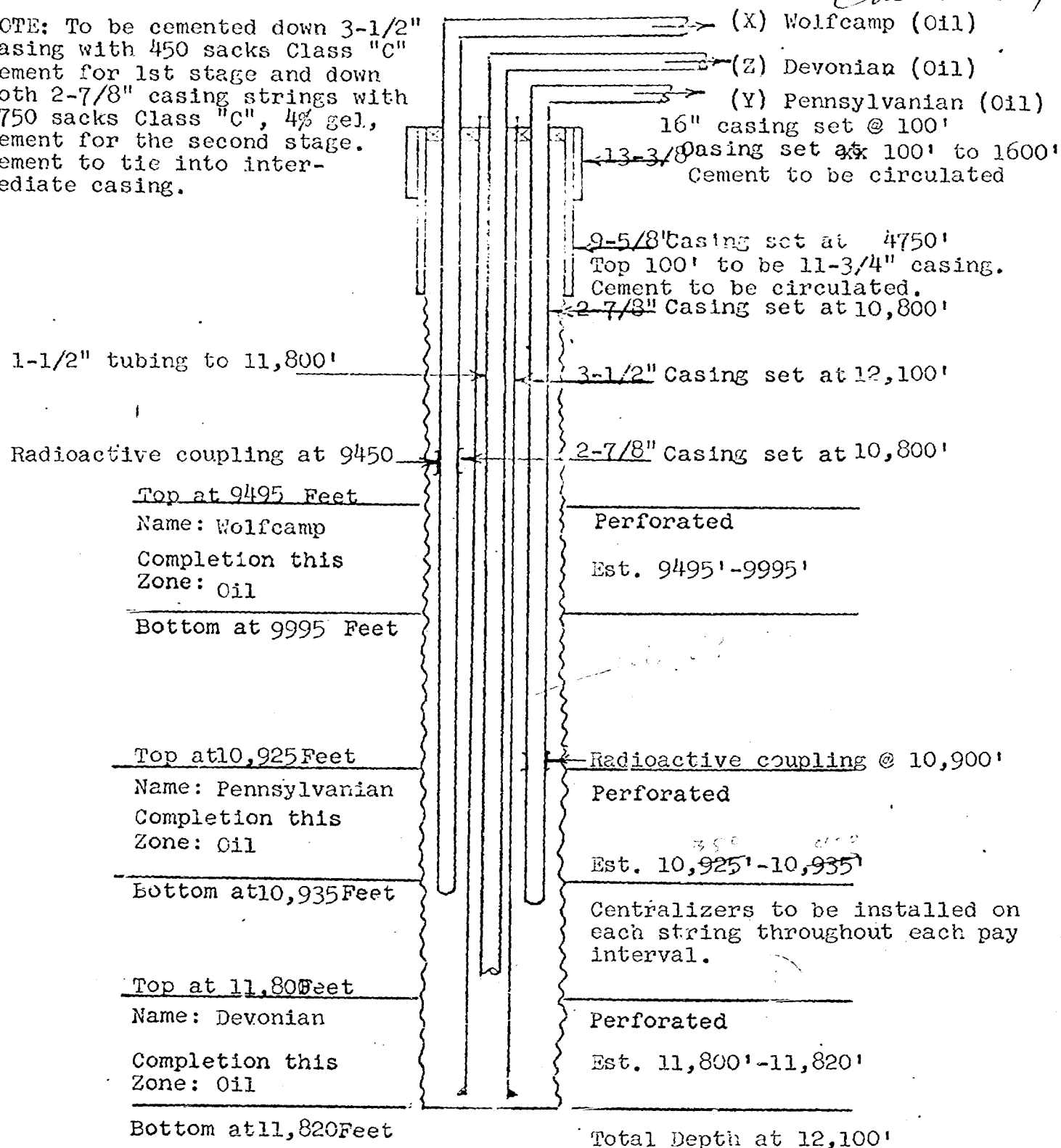
Attachments

cc: NMOCC-Hobbs
Offset Operators

DIAGRAMMATIC SKETCH OF TRIPLE COMPLETION INSTALLATION (TUBING)

Case 2827

NOTE: To be cemented down 3-1/2" casing with 450 sacks Class "C" cement for 1st stage and down both 2-7/8" casing strings with 1750 sacks Class "C", 4% gel, cement for the second stage. Cement to tie into intermediate casing.



TEXACO Inc.

LEASE: State of New Mexico "O" (NCT-1) Well No. 17
 FIELD: Undesignated (Devonian, Pennsylvanian, Wolfcamp)
 DATE: May 7, 1963

TEXACO
INC.

PETROLEUM PRODUCTS



P. C. Box 728
Hobbs, New Mexico
May 8, 1963

New Mexico Oil Conservation Commission
P. O. Box 871
Santa Fe, New Mexico

Re: Correction to Application for Triple
Completion, TEXACO Inc., State of New
Mexico "O" (NCT-1) Well No. 17, Lea
County, New Mexico

ATTENTION: Mr. A. I. Porter, Jr.

Gentlemen:

Attached is revised copies of application for multiple completion
and diagrammatic sketch for TEXACO Inc. State of New Mexico "O" (NCT-1)
Well No. 17, Lea County, to correct the application dated May 7, 1963. The
estimated perforated Pennsylvanian interval should read 10,350 feet to 10,400
feet instead of 10,925 feet to 10,935 feet as initially indicated.

Your indulgence shall be appreciated and copies of this
corrected application are being sent this date to each offset operator by
registered mail.

Yours very truly,

J. G. Blevins, Jr.
Assistant District Superintendent

WPY/om
cc: NMOC, Hobbs
Offset Operators

Attachments

DOCKET MAILED

Date 5/23/63
/r

NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

5-1-61

APPLICATION FOR MULTIPLE COMPLETION

Doc 2827

Operator TEXACO Inc.		County Lea		Date May 8, 1963
Address Box 728, Hobbs, New Mexico		Lease State of N. M. "O" (NCT-1)		Well No. Well No. 17
Location of Well	Unit N	Section 36	Township 17-S	Range 34-E

1. Has the New Mexico Oil Conservation Commission heretofore authorized the multiple completion of a well in these same pools or in the same zones within one mile of the subject well? YES X NO
2. If answer is yes, identify one such instance: Order No. MC-1265; Operator, Lease, and Well No.:

TEXACO Inc., State of New Mexico "O" (NCT-1) Well No. 11

3. The following facts are submitted:	Upper Zone	Intermediate Zone	Lower Zone
a. Name of Pool and Formation	* Wolfcamp	* Pennsylvanian	* Devonian
b. Top and Bottom of Pay Section (Perforations)	Est. 9495-9995'	Est. 10,350-10,400'	Est. 11,800-820'
c. Type of production (Oil or Gas)	Oil	Oil	Oil
d. Method of Production (Flowing or Artificial Lift)	Flow	Flow	Flow

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

Yes a. Diagrammatic Sketch of the Multiple Completion, showing all casing strings, including diameters and setting depths, centralizers and/or turbolizers and location thereof, quantities used and 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 multiple 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.

Continental Oil Company, P. O. Box 68, Eunice, New Mexico

Shell Oil Corporation, P. O. Box 1858, Roswell, New Mexico

Amerada Petroleum Corporation, P. O. Box 668, Hobbs, New Mexico

Phillips Petroleum Company, P. O. Box 2105, Hobbs, New Mexico

Mobil Oil Company, P. O. Box 2406, Hobbs, New Mexico

Pacific Western c/o Tidewater Oil Company, P. O. Box 547, Hobbs, New Mexico

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 8, 1963 (registered mail).

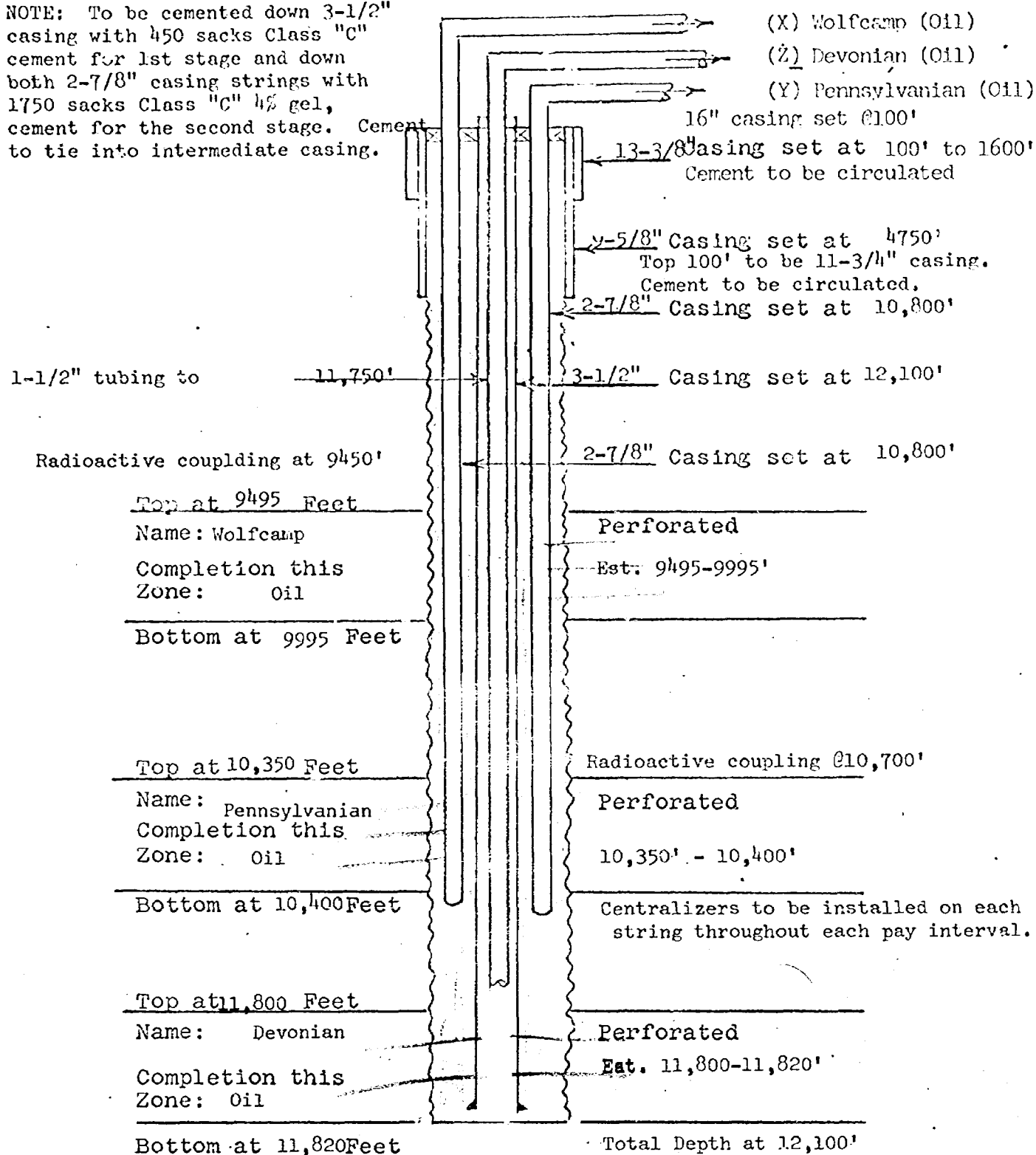
CERTIFICATE: I, the undersigned, state that I am the Assistant Dist. Supt. of the TEXACO Inc. (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

J. G. Blewins, Jr. 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 multiple completion will result in an unorthodox well location and/or a non-standard production unit in either or both of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

DIAGRAMMATIC SKETCH OF TRIPLE COMPLETION INSTALLATION (TUBINGLESS)

NOTE: To be cemented down 3-1/2" casing with 450 sacks Class "C" cement for 1st stage and down both 2-7/8" casing strings with 1750 sacks Class "C" 1/2 gel, cement for the second stage. Cement to tie into intermediate casing.



TEXACO Inc.

LEASE: State of New Mexico "O" (NCT-1) Well No. 17
 FIELD: Undesignated (Devonian, Pennsylvanian, Wolfcamp)
 DATE: May 8, 1963

Case 2827

Memo

From

J. E. KAPTEINA
ENGINEER

To

New Mexico "O" (NCT-1) #17

Located in N-36-17S-34E

WC - PE - DEV

NO. 16-63

DOCKET: EXAMINER HEARING - WEDNESDAY - JUNE 5, 1963

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 2816: In the matter of the hearing called by the Oil Conservation Commission on its own motion to permit C. T. Robertson and all other interested parties to appear and show cause why the Honolulu State "B" Wells Nos. 4 and 5 in Units G and H, respectively, of Section 11, Township 11 South, Range 27 East, Chaves County, New Mexico, should not be plugged in accordance with a Commission-approved plugging program.
- CASE 2827: Application of Texaco Inc. for a triple completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the triple completion (combination) of its State "O" Well No. 17 located in Unit N of Section 36, Township 17 South, Range 34 East, Vacuum Field, Lea County, New Mexico, to produce oil from the Wolfcamp and the Pennsylvanian formations through parallel strings of 2 7/8 inch casing and from the Devonian formation through 1 1/2 inch tubing installed within 3 1/2 inch casing, all casing strings to be cemented in a common well bore.
- CASE 2828: Application of Continental Oil Company for a triple completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the triple completion (conventional) of its Warren Unit Well No. 26, located in Unit M of Section 27, Township 20 South, Range 38 East, Lea County, New Mexico, to produce gas from the Warren Blinbry Gas Pool and from the Warren-Tubb Gas Pool and oil from the Warren-Drinkard Pool through parallel strings of tubing.
- CASE 2829: Application of Amerada Petroleum Corporation for a dual completion, and for commingling authority, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the dual completion (conventional) of its S. E. Anderson Well No. 1, located in Unit B of Section 30, Township 9 South, Range 35 East, Lea County, New Mexico, to produce oil from the Bough "C" zone of the Pennsylvanian formation and from the Devonian formation through parallel strings of tubing. Applicant further seeks authority to commingle said pools on said lease by use of the subtraction method.

CASE 2830:

Application of Humble Oil & Refining Company for a triple completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an amendment to Order No. R-2433, which order authorized the triple completion (tubingless), of applicant's State "S" Well No. 24 located in Unit J, Section 2, Township 22 South, Range 37 East, to produce oil from the Blinbry, Drinkard, and Abc formations through parallel strings of 2 7/8 inch casing cemented in a common well bore. Applicant now desires to substitute the Granite Wash for the Blinbry formation in said Order No. R-2433.

CASE 2831:

Application of Pan American Petroleum Corporation for an exception to Rules 15 (A) and 15 (B) of the general Rules and Regulations governing prorated gas pools in Northwestern New Mexico. Applicant, in the above-styled cause, seeks to suspend the shut-in provisions of Rules 15(A) and 15(B) of Order No. R-1670, as amended, until September 1, 1963, for the Gallegos Canyon Unit Wells No. 96, 107, 109, 110, and 111 located in Sections 18, 19 and 20, Township 29 North, Range 12 West, and the Gallegos Canyon Unit Wells No. 102, 106, and 108, located in Sections 13 and 24, Township 29 North, Range 13 West, Basin Dakota Pool, San Juan County, New Mexico.

CASE 2554:

(Reopened)

In the matter of Case 2554 being reopened pursuant to the provisions of Order No. R-2253, which order established temporary 80-acre proration units for the South Lane Pennsylvanian Pool, Lea County, New Mexico, for a period of one year. All interested parties may appear and show cause why said pool should not be developed on 40-acre proration units.

CASE 2820:

(Continued from the May 22, 1963 examiner hearing)
Application of Texas Pacific Coal & Oil Company for a non-standard gas proration unit, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of a 320-acre non-standard gas proration unit comprising the NE/4 of Section 20 and the NW/4 of Section 21, Township 23 South, Range 36 East, Jalmat Gas Pool, Lea County, New Mexico, to be dedicated to its State "A" A/c-1 Well No. 6, located 2310 feet from the North line and 1650 feet from the West line of said Section 21.

CASE 2821:

(Continued from the May 22, 1963 examiner hearing)
Application of D. W. Falls, Inc. for an extension of Order

No. R-2213, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks the extension of Order No. R-2213, which order assigned a temporary deliverability for allowable purposes to applicant's Federal Well No. 2-11, located in Unit O of Section 11, Township 28 North, Range 13 West, Basin-Dakota Gas Pool, San Juan County, New Mexico.

CASE 2824:

(Continued from the May 22, 1963 examiner hearing)
Application of Texaco Inc. for a triple completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the triple completion (combination) of its State "O" Well No. 14, located in Unit J of Section 36, Township 17 South, Range 34 East, Lea County, New Mexico, to produce oil from the North Vacuum-Abo and the Vacuum-Wolfcamp Pools through parallel strings of 2 7/8 inch casing and from the Vacuum-Devonian Pool through 1 1/2 inch tubing installed within 3 1/2 inch casing, all casing strings to be cemented in a common well bore.

CASE 2826:

(Continued from the May 22, 1963 examiner hearing)

Application of Texaco Inc. for a triple completion & for certain administrative procedures, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the triple completion (combination) of its State "L" Well No. 6 located in Unit B of Section 1, Township 18 South, Range 34 East, Lea County, New Mexico, to produce oil from the Vacuum Wolfcamp Pool and an undesignated Pennsylvanian Pool through parallel strings of 2 7/8 inch casing and from the Vacuum-Devonian Pool through 1 1/2 inch tubing installed within 3 1/2 inch casing, all casing strings to be cemented in a common well bore. Applicant further seeks a procedure whereby 1 1/2 inch tubing for Devonian production in this field may be approved administratively.

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. 2689
Order No. R-2390

APPLICATION OF SOCONY MOBIL OIL
COMPANY FOR A DUAL COMPLETION AND
CERTAIN ADMINISTRATIVE PROCEDURES,
LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on November 8, 1962, at Santa Fe, New Mexico, before Daniel S. Nutter, 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 14th day of December, 1962, the Commission, a quorum being present, having considered the application, the evidence adduced, and the recommendations of the Examiner, Daniel S. Nutter, 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, Socony Mobil Oil Company, seeks authority to complete its State Bridges Well No. 27-DD located in Unit H of Section 26, Township 17 South, Range 34 East, NMPM, Lea County, New Mexico, as a dual completion (conventional) to produce oil from the Vacuum (Grayburg-San Andres) Pool through 2 3/8-inch OD x 2-inch OD Buttress thread tubing and to produce oil from the Paddock formation through a parallel string of 2 3/8-inch OD x 1.38-inch ID tubing, separation of producing zones to be achieved by a packer set at approximately 6360 feet.

(3) That the necessity for the aforesaid small diameter tapered tubing strings is occasioned by deepening the subject well from an open-hole completion in the San Andres formation to the Paddock formation and running a 5-inch liner to the new total depth.

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

(5) That approval of the proposed dual completion will neither cause waste nor impair correlative rights.

(6) That due to mechanical conditions similar to those outlined in Finding No. 3 above which will be encountered in other wells, the applicant further seeks the establishment of an administrative procedure for approval of similar dual completions in this area.

(7) That the mechanical conditions and producing capability of wells in the subject area justify the establishment of an administrative procedure for approval of similar dual completions.

IT IS THEREFORE ORDERED:

That the applicant, Socony Mobil Oil Company, is hereby authorized to complete its State Bridges Well No. 27-DD, located in Unit H of Section 26, Township 17 South, Range 34 East, NMPM, Lea County, New Mexico, as a dual completion (conventional) to produce oil from the Vacuum (Grayburg-San Andres) Pool through 2 3/8-inch OD x 2-inch OD Buttress thread tubing and to produce oil from the Paddock formation through a parallel string of 2 3/8-inch OD x 1.38-inch ID tubing, separation of producing zones to be achieved by a packer set at approximately 6360 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 Gas-Oil Ratio Test Period for the Paddock formation.

IT IS FURTHER ORDERED:

(1) That the Secretary-Director is hereby authorized to grant administrative approval of similar dual completions where the provisions of Section IV of Rule 112-A have been fully complied with; and

1. The well will be completed as a dual completion (conventional) to produce oil from the Vacuum (Grayburg-San Andres) Pool and the Paddock formation.
2. The completion will utilize parallel strings of tubing tapering to not less than 1.38 inches in diameter.

-3-
CASE No. 2689
Order No. R-2390

3. The well is within one mile of a similar multiple completion well that has been approved by the Commission after notice and hearing or by administrative order.

(2) That the provisions of Rule 112-A shall apply to all wells receiving administrative approval under this order insofar as said ~~rule~~ is not inconsistent with this order.

IT IS FURTHER ORDERED:

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

TOM BOLACK, Chairman

E. S. WALKER, Member

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

S E A L

esr/

No. 16-63

DOCKET: EXAMINER HEARING - WEDNESDAY - JUNE 5, 1963

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 2816: In the matter of the hearing called by the Oil Conservation Commission on its own motion to permit C. T. Robertson and all other interested parties to appear and show cause why the Honolulu State "B" Wells Nos. 4 and 5 in Units G and H, respectively, of Section 11, Township 11 South, Range 27 East, Chaves County, New Mexico, should not be plugged in accordance with a Commission-approved plugging program.
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- CASE 2830: Application of Humble Oil & Refining Company for a triple completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an amendment to Order No. R-2433, which order authorized the triple completion (tubingless), of applicant's State "S" Well No. 24 located in Unit J, Section 2, Township 22 South, Range 37 East, to produce oil from the Blinebry, Drinkard, and Abo formations through parallel strings of 2 7/8 inch casing cemented in a common well bore. Applicant now desires to substitute the Granite Wash for the Blinebry formation in said Order No. R-2433.
- CASE 2831: Application of Pan American Petroleum Corporation for an exception to Rules 15 (A) and 15 (B) of the general Rules and Regulations governing prorated gas pools in Northwestern New Mexico. Applicant, in the above-styled cause, seeks to suspend the shut-in provisions of Rules 15(A) and 15(B) of Order No. R-1670, as amended, until September 1, 1963, for the Gallegos Canyon Unit Wells No. 96, 107, 109, 110, and 111 located in Sections 18, 19 and 20, Township 29 North, Range 12 West, and the Gallegos Canyon Unit Wells No. 102, 106, and 108, located in Sections 13 and 24, Township 29 North, Range 13 West, Basin Dakota Pool, San Juan County, New Mexico.
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In the matter of Case 2554 being reopened pursuant to the provisions of Order No. R-2253, which order established temporary 80-acre proration units for the South Lane Pennsylvanian Pool, Lea County, New Mexico, for a period of one year. All interested parties may appear and show cause why said pool should not be developed on 40-acre proration units.
- CASE 2820: (Continued from the May 22, 1963 examiner hearing)
Application of Texas Pacific Coal & Oil Company for a non-standard gas proration unit, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of a 320-acre non-standard gas proration unit comprising the NE/4 of Section 20 and the NW/4 of Section 21, Township 23-South, Range 36 East, Jalmat Gas Pool, Lea County, New Mexico, to be dedicated to its State "A" A/c-1 Well No. 6, located 2310 feet from the North line and 1650 feet from the West line of said Section 21.
- CASE 2821: (Continued from the May 22, 1963 examiner hearing)
Application of D. W. Falls, Inc. for an extension of Order

No. R-2213, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks the extension of Order No. R-2213, which order assigned a temporary deliverability for allowable purposes to applicant's Federal Well No. 2-11, located in Unit O of Section 11, Township 28 North, Range 13 West, Basin-Dakota Gas Pool, San Juan County, New Mexico.

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CASE 2826:

(Continued from the May 22, 1963 examiner hearing)

Application of Texaco Inc. for a triple completion & for certain administrative procedures, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the triple completion (combination) of its State "L" Well No. 6 located in Unit B of Section 1, Township 18 South, Range 34 East, Lea County, New Mexico, to produce oil from the Vacuum Wolfcamp Pool and an undesignated Pennsylvanian Pool through parallel strings of 2 7/8 inch casing and from the Vacuum-Devonian Pool through 1 1/2 inch tubing installed within 3 1/2 inch casing, all casing strings to be cemented in a common well bore. Applicant further seeks a procedure whereby 1 1/2 inch tubing for Devonian production in this field may be approved administratively.

TEXACO
INC.

PETROLEUM PRODUCTS



DOMESTIC PRODUCING DEPARTMENT
MIDLAND DIVISION

P. O. BOX 3109
MIDLAND, TEXAS

May 17, 1963

New Mexico Oil Conservation Commission
P. O. Box 871
Santa Fe, New Mexico

Attn: Mr. D. S. Nutter

Gentlemen:

Reference is made to Cases No. 2824 and 2826 set
for hearing May 22, 1963. Texaco Inc. respectfully requests
that these two cases be continued until the June 5, 1963,
Examiner hearing docket.

Yours very truly,

C. R. Black

C. R. Black
Division Proration Engineer

CRB-MM

DOCKET MAILED

Date 2/23/63

[Signature]

Case 2827

Heard 5-5-63

Rec. 5-6-63

1. Grant Texas permission for
a triple completion of its St. of A. Map
"O" (N. of ~~the~~ No. 17 located. 7601 S +
20 80 / W line section 36-12 S-34 E.

2. all other data same as case 2826.

Thos. A. D.

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. 2827
Order No. R-2500

APPLICATION OF TEXACO INC.
FOR A TRIPLE COMPLETION,
LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on June 5, 1963, 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 11th day of June, 1963, 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, Texaco Inc., seeks authority to complete its State "O" Well No. 17, located in Unit N of Section 36, Township 17 South, Range 34 East, NMPM, Vacuum Field, Lea County, New Mexico, as a triple completion (combination) to produce oil from the Wolfcamp and Pennsylvanian formations through parallel strings of 2 7/8-inch casing and from the Devonian formation through 1 1/2-inch tubing installed within 3 1/2-inch casing, all casing strings to be cemented in a common well bore.

(3) That the applicant proposes to circulate cement from total depth into the intermediate casing, to cement the intermediate casing into the surface casing, and circulate the surface casing cement to the surface.

(4) That the mechanics of the proposed triple completion, including the casing and tubing programs, are feasible and in accord with good conservation practices.

-2-

CASE No. 2827
Order No. R-2500

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

IT IS THEREFORE ORDERED:

(1) That the applicant, Texaco Inc., is hereby authorized to complete its State "O" Well No. 17, located in Unit N of Section 36, Township 17 South, Range 34 East, NMPM, Vacuum Field, Lea County, New Mexico, as a triple completion (combination) to produce oil from the Wolfcamp and the Pennsylvanian formations through parallel strings of 2 7/8-inch casing and from the Devonian formation through 1 1/2-inch tubing installed within 3 1/2-inch casing, all casing strings to be cemented in a common well bore.

PROVIDED HOWEVER, That cement shall be circulated from total depth into the intermediate casing, the intermediate casing shall be cemented into the surface casing, and the surface casing cement shall be circulated to the surface.

PROVIDED FURTHER, 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 zone segregation tests upon completion and annually thereafter during the Gas-Oil Ratio Test Period for the Devonian formation.

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

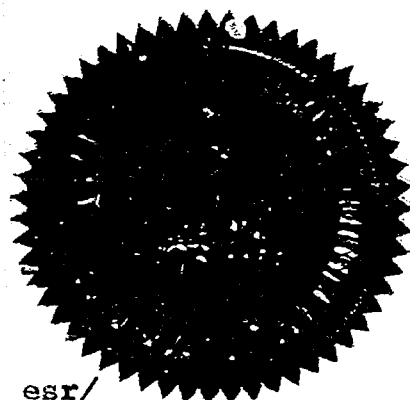
DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

Jack M. Campbell
JACK M. CAMPBELL, Chairman

E. S. Walker
E. S. WALKER, Member

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



esr/

GOVERNOR
JACK M. CAMPBELL
CHAIRMAN

State of New Mexico
Oil Conservation Commission



LAND COMMISSIONER
E. B. JOHNNY WALKER
MEMBER

P. O. BOX 871
SANTA FE

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

June 11, 1963

Mr. Charlie White
Gilbert, White & Gilbert
Attorneys at Law
Box 787
Santa Fe, New Mexico

Re: Case No. 2826 and 2827
Order No. R-2505 and R-2500
Applicant:
TEXACO INC.

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

ix/

Carbon copy of order also sent to:

Hobbs OCC X

Artesia OCC

Astec OCC

OTHER

DATE 12-17

TEXACO Inc.
State of New Mexico Reg. (801-1) License
Vacuum (Devonian) Field
Lea County, New Mexico

Estimated Bubble Pressure: 2,043 psi

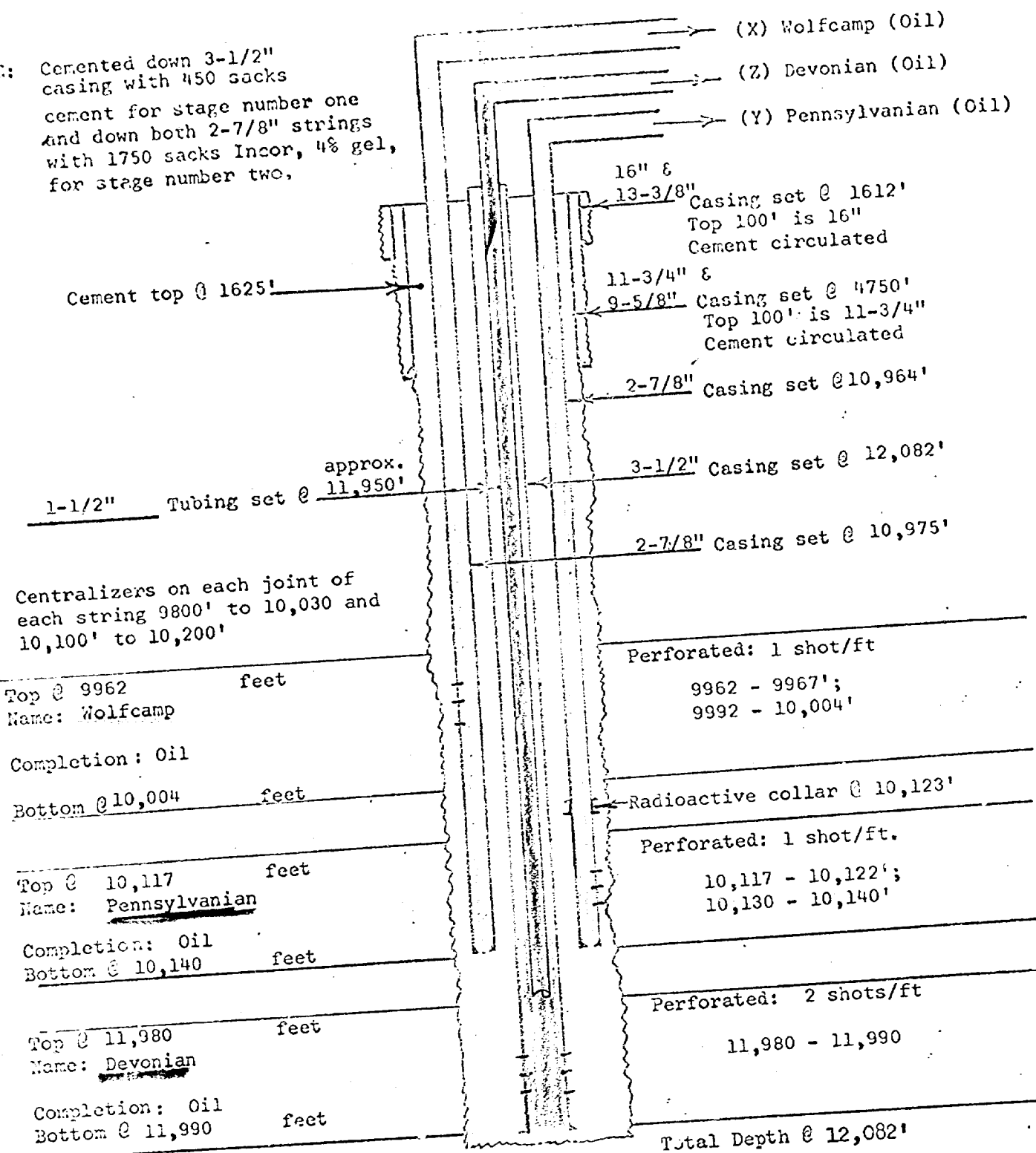
Crude Oil Data: 55.6° API Gravity

Reservoir and Equipment Data:

Static bottom-hole pressure at mid-point
csg. perf. (psi)
Mid-point casing perforations
Submer depth
Time shut-in (hours)
Tubing pressure - shut-in (psi)
Stabilized flow pressure at mid-point
csg. perf. (psi)
Stabilized tubing flow pressure (psi)
Choke Size (Adjustable)
Average pressure drop through tubing (psi/ft)
Flow rate (BOPD)
(SWPD)
Productivity Index
Gas-Oil-Ratio (SCF/BBL)
Casing - Outside Diameter
Inside Diameter
Tubing - Outside Diameter
Inside Diameter
Anticipated maximum artificial lift with
hydraulic subsurface equipment (BOPD)

<u>Well No. 11</u>	<u>Well No. 17</u>
4488	4721
12,302'	11,385'
-8,589'	-7,977'
24	48
1672	2101
3829	4375
1091	1742
8/64" (11/32" x 10)	12/64"
.2265	.22
274	204
131	.7500
.8200	1979
1530	3.5"
1.31	2.1"
1.2750	1.9"
1.2350	1.81"
1200	600

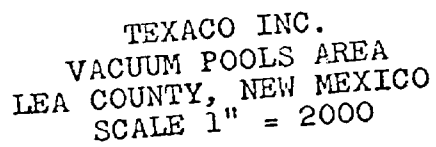
NOTE: Cemented down 3-1/2" casing with 450 sacks cement for stage number one and down both 2-7/8" strings with 1750 sacks Incor, 4% gel, for stage number two.



TEXACO Inc.

Lease: State of New Mexico "O" (NCT-1) Well No. 17
 Field: Vacuum (Wolfcamp, Pennsylvanian and Devonian)
 Date: June 3, 1963

R-34-E



BEFORE THE
OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
June 5, 1963

EXAMINER HEARING

IN THE MATTER OF:

(Continued from the May 22, 1963 examiner hearing.)

Application of Texaco Inc. for a triple completion and for certain administrative procedures, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the triple completion (combination) of its State "L" Well No. 6 located in Unit B of Section 1, Township 18 South, Range 34 East, Lea County, New Mexico, to produce oil from the Vacuum Wolfcamp Pool and an undesignated Pennsylvanian Pool through parallel strings of 2 7/8 inch casing and from the Vacuum-Devonian Pool through 1 1/2 inch tubing installed within 3 1/2 inch casing, all casing strings to be cemented in a common well bore. Applicant further seeks a procedure whereby 1 1/2 inch tubing for Devonian production in this field may be approved administratively.

CASE 2826

IN THE MATTER OF:

Application of Texaco Inc. for a triple completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the triple completion (combination) of its State "O" Well No. 17 located in Unit N of Section 36, Township 17 South, Range 34 East, Vacuum Field, Lea County, New Mexico, to produce oil from the Wolfcamp and the Pennsylvanian formations through parallel strings of 2 7/8 inch casing and from the Devonian formation through 1 1/2 inch tubing installed with 3 1/2 inch casing, all casing strings to be cemented in a common well bore.

CASE 2827

BEFORE: Elvis A. Utz, Examiner

DEARNLEY-MEIER REPORTING SERVICE, Inc.

FARMINGTON, N. M.
PHONE 325-1182

SANTA FE, N. M.
PHONE 983-3971

ALBUQUERQUE, N. M.
PHONE 243-6691



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PHONE 325-1182

SANTA FE, N. M.
PHONE 983-3971

ALBUQUERQUE, N. M.
PHONE 243-6691

TRANSCRIPT OF HEARING

MR. UTZ: Case 2827.

MR. DURRETT: Application of Texaco Inc. for a triple completion, Lea County, New Mexico.

MR. WHITE: Charles White of Gilbert, White, and Gilbert appearing on behalf of the Applicant. If the Examiner please, Texaco would like to dismiss Case No. 2824 on today's docket and also we would like to consolidate Case 2826 with Case 2827 for the purposes of presenting testimony.

MR. UTZ: For the purpose of taking testimony, Case 2824 will be dismissed and Case 2826 will be consolidated for the purposes of testimony with Case 2827. Separate orders will be written on each case. Are there other appearances in the cases?

(Whereupon, Applicant's Exhibits Nos. 1 through 5 marked for identification.)

(Witness sworn.)

C. R. BLACK

called as a witness, having been first duly sworn on oath, testified as follows:

DIRECT EXAMINATION

BY MR. WHITE:

Q Will you state your full name for the record, please?

A I'm C. R. Black.

Q By whom are you employed and in what capacity?

A I am employed by Texaco Inc. as Proration Engineer out



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of Midland, Texas.

Q Have you previously testified before the New Mexico Oil Conservation Commission of New Mexico?

A Yes, I have.

Q As a Petroleum Engineer?

A Yes.

Q Are you familiar with the subject applications in Cases 2826 and 2827?

A Yes, I am.

Q Will you briefly state what Texaco is seeking by the applications?

A Case No. 2826, this is the application of Texaco for a triple completion in the Vacuum-Devonian, Vacuum-Wolfcamp reservoirs for our State of New Mexico "L" Well No. 6 and also administrative approval for an administrative procedure to complete the Devonian reservoirs in this field and this area through 1-1/2 inch tubing. With regard to Case 2827, it's the application of Texaco for a triple completion in the Devonian, Pennsylvanian and Wolfcamp reservoirs in the Vacuum area for our State of New Mexico "O" Well No. 17, and also approval to produce the Devonian reservoir through a string of 1-1/2 inch tubing.

Q Will you point out the locations of these wells, and in so doing, refer to Exhibit No. 1?

A Exhibit No. 1 is an ownership map showing the Texaco State of New Mexico "O" lease bordered in yellow, and the State of



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New Mexico "L" lease bordered in yellow. Also shown on this map are three wells circled in red which are the wells involved with the three applications set for hearing today.

The application with regard to Well No. 14 has been dismissed, so we're only concerned with Well No. 17 located in the Southeast Quarter of the Southwest Quarter of Section 36, Township 17 South, Range 34 East; and the location of the State of New Mexico "L" Well No. 6 located in the Northwest Quarter of the Northeast Quarter of Section 1, Township 18 South, Range 34 East.

Q Mr. Black, what is the present status of these wells?

A At the present time Well No. 17 has reached total depth and we have begun production tests in the Devonian formation and perforated the other two zones. Well "L" No. 6 is now drilling at approximately 11,500 feet. We anticipate going to approximately 12,100 feet in this well.

Q Will you now refer to Exhibits 2 and 3 and explain the casing program and the proposed downhole equipment and the perforated intervals?

A Exhibit No. 2 is a diagrammatic sketch of the proposed triple completion installation for the State of New Mexico "L" Well No. 6. This is with regard to Case 2826. Texaco set 13-3/8 inch casing at 1510 feet and circulated cement to the surface. We set 9-5/8 inch casing at 4800 feet and cemented it, and the estimated top of the cement is at 1200 feet, up in the



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13-3/8ths. We continued with an 8-3/4 inch hole and we plan to go to a depth of 12,150 feet. At that point we will run two strings of 2-7/8ths casing to produce the Wolfcamp and Pennsylvanian reservoirs. We will run one string of 3-1/2 inch casing and cement this with a total of 2200 sacks of cement. Cement will tie back into the intermediate casing. We will then perforate the Wolfcamp formation from approximately 9900 to 10,000 feet. We will perforate the Pennsylvanian formation from approximately 10,250 to 10,300 feet, and we will perforate the Devonian formation from approximately 11,800 to 11,820. At that point we will run a string of 1-1/2 inch tubing inside the 3-1/2 inch casing to produce the Devonian reservoir.

With regard to Exhibit No. 3, this is a diagrammatic sketch showing the proposed triple completion installation for the State of New Mexico "O" Well No. 17. This is with regard to Case No. 2827. We set 16-inch and 13-3/8 inch casing at 1612 feet, with the top 100 feet being 16-inch casing. We set 11-3/4 inch and 9-5/8 inch casing at 4750 feet, with the top 100 feet being 11-3/4 inch casing. We circulated cement to the surface on both the surface and intermediate casing strings. We continued with an 8-3/4 inch hole to a total depth of 12,082 feet. At that point we set two strings of 2-7/8 inch casing and one string of 3-1/2 inch casing and cemented with a total of 2700 sacks. The cement top as determined by a temperature survey was at 1625 feet back into the intermediate casing. We perforated the



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Wolfcamp reservoir from 9962 to 9967, and 9992 to 10,004 feet. We perforated the Pennsylvanian from 10,117 to 10,122, and from 10,130 to 10,140. We perforated the Devonian from 11,980 to 11,990; and we have obtained production tests from the Devonian.

Q What are the crude characteristics of each zone?

A The crude characteristics for the Devonian, which would of course apply to both applications, is a 55.6 degree gravity crude. It's an intermediate sweet crude, has a gas-oil ratio of from 1800 to 1900 cubic feet per barrel. The bottom hole pressure is between 4700 and 4800 psi. This zone will flow initially.

The Wolfcamp is a 40.8 gravity crude. It's an intermediate sweet crude also. It has a gas-oil ratio of 1400 to 1500 cubic feet per barrel, and a bottom hole pressure of 3800 to 3900 psi. Also it will flow initially upon completion.

The Pennsylvanian formation is a 38.9 degree gravity crude, and again it's an intermediate sweet crude with a GOR of approximately 2500. The bottom hole pressure is between 2400 and 2500 psi, and we anticipate it will flow initially.

Q Mr. Black, do you anticipate any corrosion problems?

A We do not anticipate any corrosion problems in any of the three zones, due to the fact that they are intermediate sweet crude.

Q Do you anticipate any paraffin problems?

A With regard to the Wolfcamp and Pennsylvanian, we do



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not anticipate any paraffin problems; however, in the Devonian, with our experience of other Devonian reservoirs in Southeast New Mexico, we do anticipate some mild paraffin problems.

Q What steps do you propose to take to take care of this condition?

A We have plasti-coated the upper three thousand feet of tubing in this zone.

Q Why do you propose to use an inch and a half tubing and 3-1/2 inch casing to produce the Devonian?

A The primary reason for this, of course, is an economic reason, and this will result in a savings of approximately \$1600 per well for each well completed in this reservoir.

Q Have you made any studies or gathered any information to show that the Devonian can be efficiently produced through an inch and a half tubing?

A Yes, we have. We have recently completed two flowing tests and I would like at this point to refer to Exhibit No. 4, which is a data sheet listing the pertinent data with regard to these two flowing tests.

The test involving the State of New Mexico "O" Well No. 11, and referring again to Exhibit No. 1, this is a Devonian well located in the Southeast Quarter of the Northwest Quarter of Section 36, this well is completed in the Devonian reservoir with 4-1/2 inch casing and 2-3/8 inch tubing.

Going down this data sheet, the crude oil gravity is



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55.6 degrees, and the estimated bubble point, based upon reservoir characteristics, not actually a fluid analysis, is 2,043 psi. We found that to conduct the test of this sort, we shut both wells in and then ran a bomb into both wells and then flowed these wells at approximately a top allowable rate. We found that the initial pressure at the mid-point of the casing perforations in Well No. 11 was 4488 psi. Now this would lead us to think that possibly this pressure, or this well had not completely built up to its static pressure in the 24 hours it was shut-in, because the initial pressure in this well was 4814 psi. We found the static pressure opposite the mid-point of the casing perforations in Well No. 17 at 4727 psi. The mid-point of the perforations in No. 11 is 12,102 feet or a minus 8,080 foot subsea. The mid-point of the perforations in No. 17 is at 11,985 feet, or at a minus 7977 foot subsea.

No. 11 was shut-in 24 hours prior to this pressure, and No. 17 was shut-in 48 hours prior to this pressure. The tubing pressure shut-in on No. 11 was 1673, and on No. 17 was 2101. The stabilized flowing pressure after 5-1/2 hours in No. 11 was 3829 psi, or a drop of 659 psi over the static bottom hole pressure as measured after 24 hours. The stabilized flowing pressure in the No. 17 with the inch and a half tubing was 4379 or a drop of 348 psi over the static pressure of 4727.

The stabilized tubing flowing pressure in No. 11 was 1,091 pounds; the stabilized tubing flowing pressure in No. 17



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was 1742 pounds. This represents, in No. 11, a 2738 psi drop from the mid-point of the perforations to the tubing at the surface. In No. 17, it represented a 2637 psi drop from the mid-point of the perforations to the tubing at the surface.

No. 11 was flowing on an 8/64-inch choke at the surface. We do have a 10/64-inch bottom hole choke installed in this well. No. 17 was flowing on a 19/64-inch choke at the surface.

Now with regard to the average pressure drop through the tubing, in the No. 11 with the 2-3/8 inch tubing, it was .2265 psi per foot, and in the No. 17 with inch and a half tubing it was .2200 psi per foot. We believe that this substantiates the fact that this Devonian reservoir can be efficiently produced through 1-1/2 inch tubing, because the pressure drops in the 2-3/8ths and inch and a half were almost identical.

The No. 11 was flowing at the rate of 274 barrels of oil and 135 barrels of water per day. The No. 17 was flowing at the rate of 264 barrels of oil and no barrels of water. We had a P.I. of .6207 on No. 11 and a P. I. of .7586 on No. 17. The gas-oil ratios for these two wells during the period of this test was 1930 for the No. 11 and 1977 for the No. 17, which are almost identical.

With regard to the actual diameters of the casing and the tubing, in No. 11 we had a 4-1/2 inch O.D. casing, which has an I.D. of 4.0 inches; and 2.735-inch O.D. tubing, which has an I.D. of 1.995-inch. In No. 17 we had 3.5-inch O.D. casing, which



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has an I.D. of 2.992 inches; and we had 1.9-inch O.D. tubing which has an I.D. of 1.61 inches.

With regard to the maximum volume of fluid we think we could lift through these two installations under artificial lift, under No. 11 it would be 1200 barrels a day and under No. 17 it would be 300 barrels of fluid per day.

Q Is this well in excess of your allowable?

A Yes, it is. Top allowable for the Devonian is 287 barrels.

Q What conclusions do you draw from these studies?

A We believe that these pressure tests and these flowing tests indicate that this Devonian reservoir can be efficiently produced through 1-1/2 inch I.D. tubing.

Q Except for the 1-1/2 inch tubing, is this a standard type tubing?

A Yes, it is. The rule states that no tubing less than 1.670 can be installed in a multiple completion, and the I.D. is 1.610.

Q Which is the reason for the hearing today.

MR. UTZ: What was that rule again?

A Rule 112-A.

Q (By Mr. White) Do you have a log for Well No. 17?

A Yes, this is an acousti-log of Well No. 17. It has the tops of the formation and the perforations marked, and as soon as we complete Well No. 6 we will submit a copy of the log



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for that well, also.

Q Mr. Black, does Texaco also request that similar completions in the Devonian in the future be administratively approved?

A Yes, sir, we would request that an administrative procedure be set up or that similar completions in the Devonian where we use 1-1/2 inch tubing and 3-1/2 inch casing be approved administratively; and, of course, we would request that these administrative procedures be governed by those procedures set forth in Rule 112-A for multiple completions.

Q Does Texaco intend to make further drilling operation in the Devonian in this area?

A Yes, we have been pleased with the Devonian prospects and we anticipate drilling a number of wells.

Q Were these exhibits prepared by you or under your direction?

A Yes, they were.

MR. WHITE: At this time we offer Exhibits 1 through 5.

MR. UTZ: Without objection, Exhibits 1 through 5 will

be entered into the record of these two cases.

(Whereupon, Applicant's Exhibits Nos. 1 through 5 received in evidence.)

MR. WHITE: That concludes our direct.

CROSS EXAMINATION

BY MR. UTZ:



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Q Is it my understanding that you are here requesting a change in Rule 112-A?

A No, sir. We would not be requesting a change in Rule 112-A, we would only be requesting that 1-1/2 inch tubing installations be administratively approved for this Devonian reservoir, the Vacuum-Devonian reservoir, and only in this area. In other words, it would be other completions similar to these two that we presented here today.

Q Now in Case 2824 you are completing the Abo formation?

A Case 2824 was the application we dismissed. That was with regard to our No. 14 Well.

Q I have the wrong one.

A We were unable to complete in the Devonian in that well.

Q So in all respects except for the perforations, depths, these two triple completions are identical?

A They are identical except for the depth and possibly there is a slight variation in the casing program.

MR. UTZ: Are there other questions of the witness? If not, the witness will be excused.

(Witness excused.)

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

* * * *



DEARNLEY-MEIER REPORTING SERVICE, Inc.

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STATE OF NEW MEXICO)
) ss
COUNTY OF BERNALILLO)

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 10th day of June, 1963.

Ada Dearnley
NOTARY PUBLIC

My Commission Expires:

June 19, 1963.

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 2826927 heard by me on June 5, 1963.

Michael J. [Signature] Examiner
New Mexico Oil Conservation Commission

