

RECEIVED N.M.O.C.C.
Feb 18 11 35 AM '64

February 17, 1964

New Mexico Oil Conservation Commission
P. O. Box 2080
Hobbs, New Mexico

Re: Application for Recompletion of
Wolfcamp Casing String in Vacuum
(North Abo) Pool, TEXACO Inc.
State of New Mexico "O" (NCT-1)
Well No. 17, Combination Vacuum (Wolf-
camp & Pennsylvanian) Tubingless &
Conventional Vacuum (Devonian) Pools,
Lea County, New Mexico.

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

Gentlemen:

TEXACO Inc. respectfully requests administrative approval to permit recompletion of the Wolfcamp casing string in the North Abo Pool in State of New Mexico "O" (NCT-1) Well No. 17, located in Unit N of Section 36, Township 17 South, Range 34 East, Lea County, New Mexico. The well is presently completed as a combination conventional-tubingless triple with parallel strings of 2-7/8 inch casing to produce each the Vacuum (Pennsylvanian & Wolfcamp) Pools and 3-1/2 inch casing with 1-1/2 inch tubing to produce the Vacuum (Devonian) Pool. All casing is cemented in a common well bore as specified in NMOCC Order No. R-2500 which approved the well for the manner in which it is presently completed. It is desired to abandon the Wolfcamp by cement squeezing through the casing perforations from 9962 feet to 10,004 feet and then complete the North Abo in the same casing string by selectively perforating zones in an interval from approximately 9097 feet to 9224 feet. A diagrammatic sketch of the proposed completion is attached.

Although no well has been previously approved for triple completion in the same well bore in the Vacuum (North Abo, Pennsylvanian and Devonian) Pools, it is believed that sufficient evidence exists to indicate that the mechanics of the proposed completion are feasible and and in accord with good conservation practices. In support of this, the following information is submitted:

3.10

100%

100%

100%

100%

100%

100%

100%

100%


<u>Item</u>	<u>Vacuum Devonian</u>	<u>Vacuum Pennsylvanian</u>	<u>Vacuum Wolfcamp</u>	<u>Vacuum N. Abo</u>
Type Crude	Int. Sweet	Int. Sweet	Int. Sweet	Int. Sweet
Gravity (°API)	52.1	40.3	42.1	38.0
BHP (psi)	4841	3811	3652	3373
GOR (cu. ft./bbl)	1680	907	1086	937
Status	Flow	Flow	Flow	Flow
Corrosion	None	None	None	None
Paraffin	Slight	Slight	Slight	Slight

TEXACO WellVacuum
Zones CompletedNMOCC
Order No.

St. of N. M. "O" (NCT-1) Well #11	Dev., Wlfcp., N. Abo	MC-1265-A
St. of N. M. "O" (NCT-1) Well #17	Dev., Penn., Wlfcp.	R-2500
St. of N. M. "O" (NCT-1) Well #18	Penn., Wlfcp., N. Abo	MC-1394

In view of the above listed reservoir and crude characteristic data and the presently producing triple completions involving the zones in the proposed completion, it appears as if the subject well could be successfully completed and produced in a manner commensurate with good conservation practices. Therefore, TEXACO Inc. would appreciate obtaining administrative approval for the subject well and NMOCC Order No. R-2500 be revised to the effect to permit a triple combination completion to produce oil from the North Abo 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 cemented in a common well bore.

Yours very truly,



H. D. Raymond
Assistant District Superintendent

WPY/om

cc: NMOCC, Hobbs
Offset Operators

Attachments

1. The first part of the report is a general introduction to the project.
 2. The second part is a detailed description of the methodology used.
 3. The third part is a discussion of the results and their implications.
 4. The fourth part is a conclusion and a list of references.

Year	Population	Area	Volume	Value
1980	100,000	100,000	100,000	100,000
1981	105,000	105,000	105,000	105,000
1982	110,000	110,000	110,000	110,000
1983	115,000	115,000	115,000	115,000
1984	120,000	120,000	120,000	120,000
1985	125,000	125,000	125,000	125,000
1986	130,000	130,000	130,000	130,000
1987	135,000	135,000	135,000	135,000
1988	140,000	140,000	140,000	140,000
1989	145,000	145,000	145,000	145,000
1990	150,000	150,000	150,000	150,000

Year	Population	Area	Volume	Value
1991	155,000	155,000	155,000	155,000
1992	160,000	160,000	160,000	160,000
1993	165,000	165,000	165,000	165,000
1994	170,000	170,000	170,000	170,000
1995	175,000	175,000	175,000	175,000
1996	180,000	180,000	180,000	180,000
1997	185,000	185,000	185,000	185,000
1998	190,000	190,000	190,000	190,000
1999	195,000	195,000	195,000	195,000
2000	200,000	200,000	200,000	200,000

The data shows a steady increase in population over the years. The area and volume also show a consistent upward trend. The values are directly proportional to the population, area, and volume. This indicates a linear relationship between these variables. The data is presented in a clear and concise manner, making it easy to understand. The use of tables helps to organize the information and allows for easy comparison of data across different years. The overall trend is positive, suggesting a growing population and increasing area and volume. This is a significant finding that warrants further investigation. The data is reliable and has been carefully verified. The results are presented in a professional and accurate manner. The data is a valuable resource for understanding the growth and development of the region. The information is presented in a way that is both informative and accessible. The data is a key component of the report and provides a clear picture of the current state of affairs. The results are a testament to the hard work and dedication of the team. The data is a reflection of the progress made over the years. The information is a valuable asset that will be used to inform future decisions. The data is a clear and compelling argument for the need for continued investment in the region. The results are a source of pride and a testament to the success of the project. The data is a valuable tool for understanding the complex issues facing the region. The information is presented in a way that is both engaging and informative. The data is a key element of the report and provides a clear and concise summary of the findings. The results are a testament to the team's ability to tackle complex challenges and deliver high-quality results. The data is a valuable resource that will be used to inform future decisions and drive positive change in the region. The information is presented in a professional and accurate manner, reflecting the team's commitment to excellence. The data is a clear and compelling argument for the need for continued investment in the region, and the results are a source of pride and a testament to the success of the project.

The data is a valuable resource for understanding the growth and development of the region. The information is presented in a way that is both engaging and informative. The data is a key element of the report and provides a clear and concise summary of the findings. The results are a testament to the team's ability to tackle complex challenges and deliver high-quality results. The data is a valuable tool for understanding the complex issues facing the region. The information is presented in a professional and accurate manner, reflecting the team's commitment to excellence. The data is a clear and compelling argument for the need for continued investment in the region, and the results are a source of pride and a testament to the success of the project.

NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

5-1-61

APPLICATION FOR MULTIPLE COMPLETION

Operator TEXACO Inc.		County Lea	Date February 18, 1964
Address P. O. Box 728, Hobbs, New Mexico		Lease St. of New Mexico "O" (NCT-1)	Well No. 17
Location of Well N	Unit 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 _____ NO X

* 2. If answer is yes, identify one such instance: Order No. _____; Operator, Lease, and Well No.:
Dev., Penn., Wlfcp., -TEXACO St. of N.M. "O" (NCT-1) Well No. 17, Order No. R-2500
Dev., Wlfcp., N.Abo-TEXACO St. of N.M. "O" (NCT-1) Well No. 11, Order No. NC-1265-A

3. The following facts are submitted:	Upper Zone	Intermediate Zone	Lower Zone
a. Name of Pool and Formation	Vacuum, North Abo	Vac. Pennsylvanian	Vac. Devonian
b. Top and Bottom of Pay Section (Perforations)	Est. 9097-9224' (Selected Intervals)	10,130-10,140'	11,980-11,990'
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)

- 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.*
- xx** 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, Box 427, Hobbs, New Mexico~~

~~Shell Oil Corp., Box 1858, Roswell, New Mexico~~

~~Amerada Petroleum Corp., Box 668, Hobbs, New Mexico~~

~~Phillips Petroleum Company, Box 2130, Hobbs, New Mexico~~

~~Mobil Oil Company, Box 2406, Hobbs, New Mexico~~

~~Pacific Western c/o Tidewater Oil Company, Box 547, Hobbs, New Mexico~~

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 **February 18, 1964 by registered mail**

CERTIFICATE: I, the undersigned, state that I am the **Asst. 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.

H. D. Raymond

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.

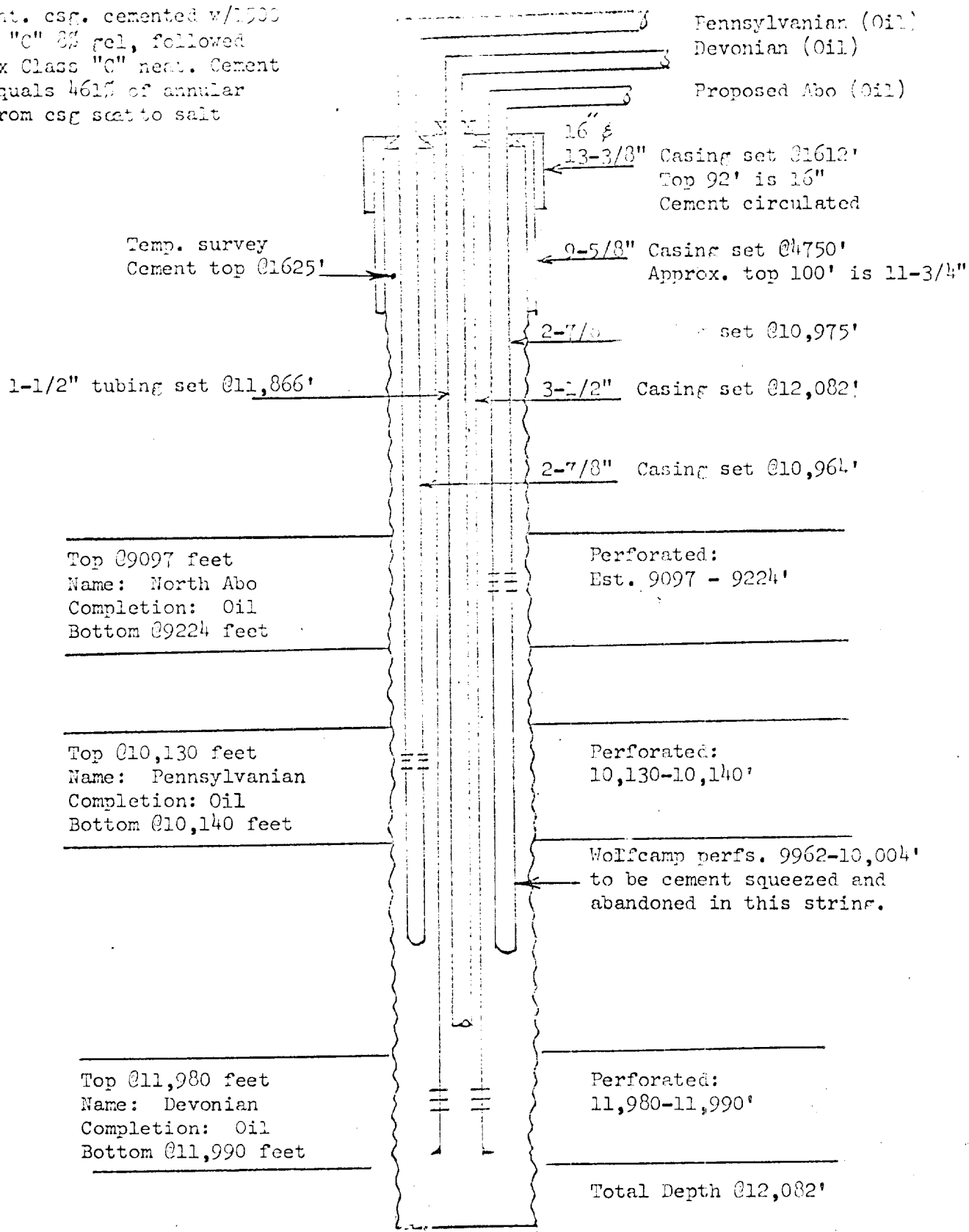
NOTE: If the proposed multiple completion will result in an unorthodox well location and/or a non-standard proration unit in either or both of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

***Penn., Wlfcp., N.Abo-TEXACO St. of N.M. "O" (NCT-1) Well No. 18, Order No. NC-1394**

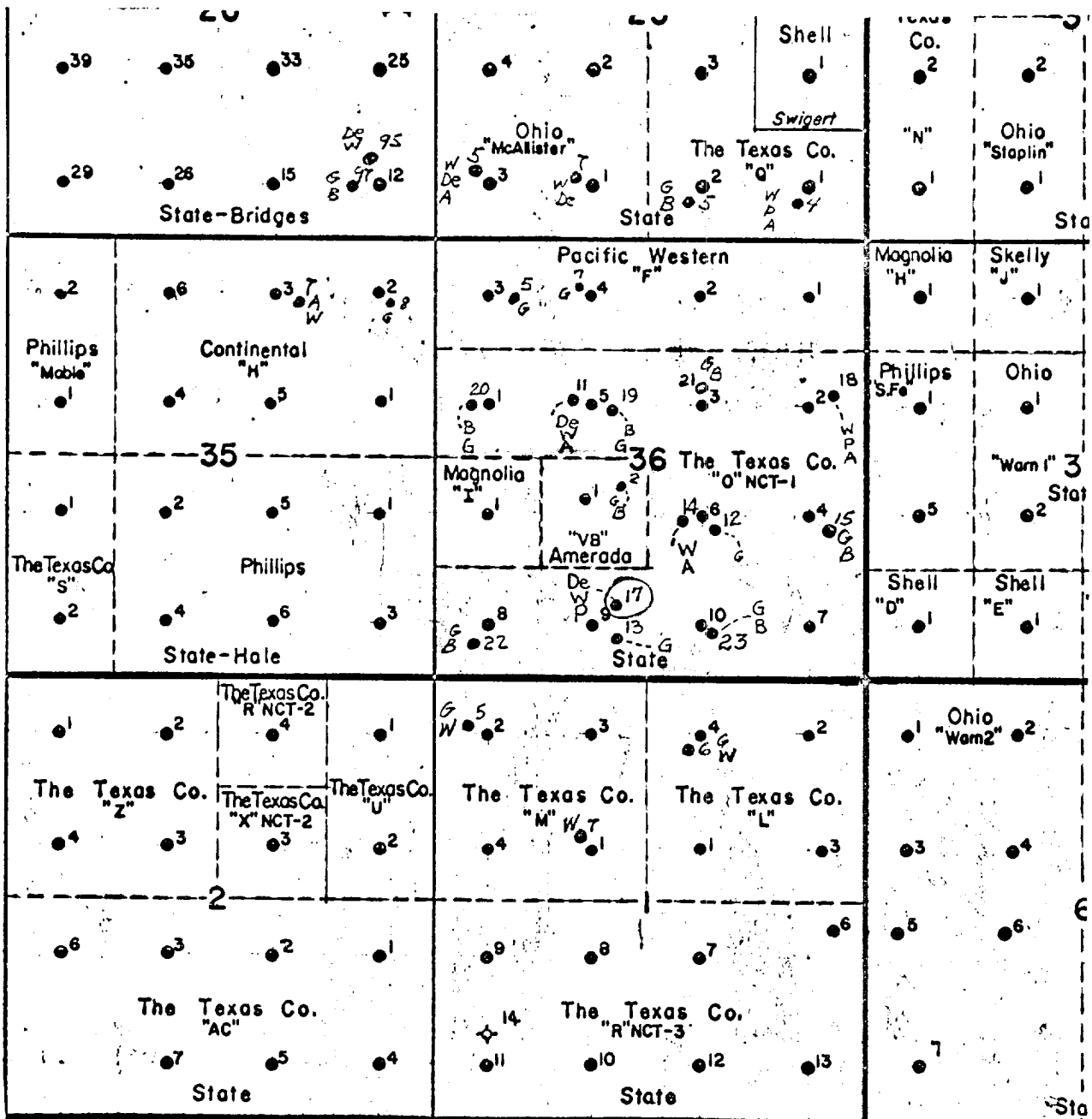
****Log submitted with previous application.**

SCHEMATIC DIAGRAM OF COMBINATION COMPLETION

Note: Int. csg. cemented w/1500
 x Class "C" 8% gel, followed
 by 200 sx Class "C" neat. Cement
 volume equals 461% of annular
 volume from csg seat to salt
 section.



TEXACO Inc.
 State of New Mexico "O" (NCT-1) Well No. 17
 Vacuum(Wolfcamp, Pennsylvanian & Devonian) Fields
 & Proposed Vacuum, North Abo
 February 18, 1964



Plat of TEXACO Inc.
 State of New Mexico "O" (NCT-1) Lease
 Lea County, New Mexico
 Scale 1" = 2000'

LEGEND

D - Vacuum - Drinkard
 A - Vacuum - Abo
 De- Vacuum - Devonian
 P - Vacuum - Pennsylvanian
 W - Vacuum - Wolfcamp
 B - Vacuum - Blinebry
 G - Vacuum - Glorieta

Note: Wells not noted are in
 the Vacuum Pool

OFFSET OPERATORS

Continental Oil Co., Box 427, Hobbs, N.M.
 Shell Oil Corp., Box 1858, Roswell, N.M.
 Amerada Petroleum Corp., Box 668, Hobbs,
 N. M.
 Phillips Petroleum Co., Box 2130, Hobbs,
 N. M.
 Mobil Oil Co., Box 2406, Hobbs, N. M.
 Pacific Western & Tidewater Oil Co.,
 P. O. Box 547, Hobbs, N. M.