

CASE 2547: Application of PAN AM.  
for a triple completion of its  
GREENWOOD UNIT WELL NO. 7.

2547

2547

Index, Transcript,  
All Exhibits, Etc.

BEFORE THE OIL CONSERVATION COMMISSION  
OF THE STATE OF NEW MEXICO

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

CASE No. 2547  
Order No. R-2244

APPLICATION OF PAN AMERICAN PETROLEUM  
CORPORATION FOR A TRIPLE COMPLETION,  
EDDY COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on May 10, 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 28th day of May, 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, Pan American Petroleum Corporation, seeks an order authorizing the triple completion (conventional) of its Greenwood Unit Well No. 7, located in Unit H, Section 12, Township 19 South, Range 31 East, NMPM, Eddy County, New Mexico, in such a manner as to permit the production of oil from an undesignated Strawn pool through 2 3/8-inch tubing and from undesignated Wolfcamp and Bone Springs pools through parallel strings of 2-inch tubing.

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

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

IT IS THEREFORE ORDERED:

(1) That the applicant, Pan American Petroleum Corporation, is hereby authorized to complete its Greenwood Unit Well No. 7, located in Unit H, Section 12, Township 19 South, Range 31 East,

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CASE No. 2547  
Order No. R-2244

NMPM, Eddy County, New Mexico, as a triple completion (conventional) in such a manner as to permit the production of oil from an undesignated Strawn pool through 2 3/8-inch tubing and from undesignated Wolfcamp and Bone Springs pools through parallel strings of 2-inch tubing.

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 take packer-leakage tests upon completion and annually thereafter during the Gas-Oil Ratio Test Period for the Strawn formation.

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

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

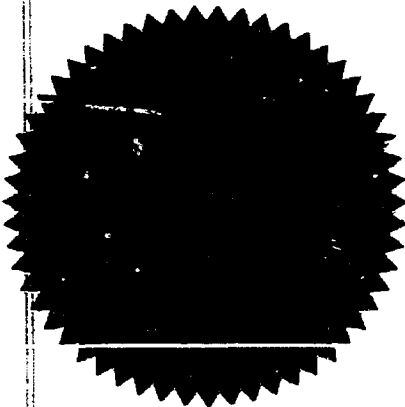
STATE OF NEW MEXICO  
OIL CONSERVATION COMMISSION



EDWIN L. MECHEM, Chairman

  
E. S. WALKER, Member

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



ear/

State of New Mexico  
Oil Conservation Commission

P. O. BOX 871  
SANTA FE

Pan American Petroleum Corporation

A. L. Porter, Jr.

**OTHER** \_\_\_\_\_

OIL CONSERVATION COMMISSION  
SANTA FE, NEW MEXICO

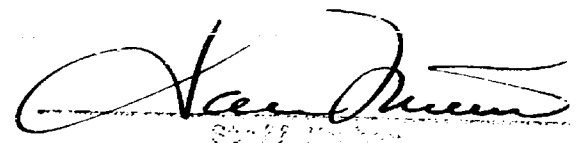
Date 5/22/62

CASE 2547

Hearing Date 9am 5/10/62

My recommendations for an order in the above numbered cases are as follows:

Enter an order approving the  
triple completion (conventional)  
of Pan American, Greenwood  
Unit No 7, located in the SE $\frac{1}{4}$ NE $\frac{1}{4}$   
Sec 12, T 19 S, R 31 E, Eddy Co  
in such a manner as to pro-  
oil from the Strawn, Wolfcamp  
and Bone Spring formations  
through 2 $\frac{3}{8}$ , ~~2~~ 2 inch, and  
2 inch tubing, respectively. Specify  
Pkr leakage tests during  
annual GOR test period  
for the Strawn

  
55-11 10-500

No. 14-62

DOCKET: EXAMINER HEARING - THURSDAY - MAY 10, 1962

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

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

- CASE 2547: Application of Pan American Petroleum Corporation for a triple completion, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order authorizing the triple completion (conventional) of its Greenwood Unit Well No. 7, located in Unit H, Section 12, Township 19 South, Range 31 East, Eddy County, New Mexico, in such a manner as to permit the production of oil from undesignated Strawn, Wolfcamp, and Bone Spring pools through parallel strings of tubing.
- CASE 2548: Application of Pan American Petroleum Corporation for an exception to Order No. R-660, Caprock-Queen Pool, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks an exception to the Special Rules and Regulations of the Caprock-Queen Pool, Order No. R-660, for the assignment of a gas allowable equivalent to the total reservoir voidage of a top allowable oil well producing at the limiting GOR of 2000: 1 for its State "AK" Well No. 1 located in Unit N, Section 19, Township 15 South, Range 31 East, Chaves County, New Mexico.
- CASE 2549: Application of Cities Service Petroleum Company for a dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks permission to complete its Hodges B Well No. 4, located in Unit M of Section 1, Township 25 South, Range 37 East, Lea County, New Mexico, as a dual completion (conventional) in the North Justis Tubb-Drinkard Pool and Devonian formation adjacent to the North Justis-Devonian Pool with the production of oil from each zone to be through parallel strings of 2 3/8-inch tubing.
- CASE 2550: Application of Texaco Inc., for a quadruple completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks permission to complete its G. L. Erwin "B" NCT-2 Well No. 4, located in Unit O of Section 35, Township 24 South, Range 37 East, Lea County, New Mexico, as a quadruple completion (tubingless) in the North Justis-Fusselman, North Justis-Devonian, North Justis Tubb-Drinkard and North Justis-

Blinebry Pools, with the production of oil from all zones to be through parallel strings of small diameter casing cemented in a common well bore.

CASE 2551:

Application of Texaco Inc., for a triple completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks permission to complete its G. L. Erwin "A" Well No. 1, located in Unit N of Section 35, Township 24 South, Range 37 East, Lea County, New Mexico, as a triple completion (tubingless) in the North Justis-Devonian, North Justis-Tubb Drinkard and North Justis-Blinebry Pools with the production of oil from all zones to be through parallel strings of small diameter casing cemented in a common well bore.

CASE 2552:

Application of Texaco Inc., for a quadruple completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an amendment to Order R-2109 to permit the quadruple completion (tubingless) of its G. L. Erwin "B" NCT-2 Well No. 2, located in Unit J of Section 35, Township 24 South, Range 37 East, Lea County, New Mexico, in the North Justis-Blinebry Pool, North Justis Tubb-Drinkard Pool, an undesignated Paddock pool and an undesignated Devonian pool with the production of oil from all four zones to be through parallel strings of 2 3/8-inch casing cemented in a common well bore.

CASE 2553:

Application of Texaco Inc. for a triple completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an amendment to Order R-2181 to permit the triple completion (conventional) of its C. H. Weir "B" Well No. 3, located in Unit G of Section 11, Township 20 South, Range 37 East, Lea County, New Mexico, in the Skaggs-Glorieta and Skaggs-Drinkard Oil Pools and in an undesignated Blinebry Oil pool with the production of oil from the Glorieta and Drinkard zones to be through parallel strings of 2 1/16-inch tubing and the production of oil from the Blinebry zone to be through a dual zone flow tube and a string of 1-inch tubing.

CASE 2554:

Application of T. F. Hodge for an order creating a new pool and establishing temporary rules, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order creating a new pool for Pennsylvanian production; the discovery well for said pool is the Humble-State Well No. 1, located in



Unit N of Section 26, Township 10 South, Range 33 East, Lea County, New Mexico, completed in the Bough "C" zone of the Pennsylvanian formation with perforations from 9667 feet to 9671 feet. Applicant further seeks establishment of special rules and regulations governing said pool, including 80-acre proration units.

CASE 2555:

Application of Gulf Oil Corporation for a dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks permission to complete its J. F. Janda (NCT-F) Well No. 6, located in Unit D of Section 4, Township 22 South, Range 36 East, Lea County, New Mexico, as a dual completion (conventional) in the Jalmat Gas Pool and South Eunice Pool with the production of oil from the Jalmat Gas Pool to be through a string of 1 1/4-inch tubing and the production of oil from the South Eunice Pool to be through a parallel string of 2 3/8-inch tubing.

CASE 2556:

Application of Gulf Oil Corporation for an unorthodox oil well location and a dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks permission to complete its Lillie Well No. 3, located 2310 feet from the North line and 330 feet from the West line of Section 23, Township 24 South, Range 37 East, Lea County, New Mexico, as a dual completion (conventional) in the Fowler-Fusselman and Fowler-Ellenburger Pools with the production oil from both zones to be through a parallel strings of tubing. Said well is at an unorthodox location under the Fowler-Ellenburger Pool Rules.

CASE 2557:

Application of Gulf Oil Corporation for a unit agreement and a secondary recovery project, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the West Dollarhide Devonian Unit Agreement embracing 765.25 acres, more or less, of Federal and State lands in Townships 24 and 25 South, Range 38 East, Lea County, New Mexico. Applicant further seeks permission to institute a secondary recovery project in the proposed West Dollarhide Devonian Unit Area by injection of water into the Devonian formation into certain wells located in said unit.

NOTICE 7 M 28

BEFORE THE OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO

IN THE MATTER OF THE APPLICATION )  
OF PAN AMERICAN PETROLEUM )  
CORPORATION FOR A TRIPLE COM- )  
PLETION OF ITS GREENWOOD UNIT WELL ) No. 2547  
NO. 7, LOCATED IN UNIT H, SECTION 12, )  
TOWNSHIP 19 SOUTH, RANGE 31 EAST, )  
N.M.P.M., EDDY COUNTY, NEW MEXICO. )

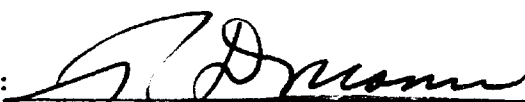
ENTRY OF APPEARANCE

The undersigned, Atwood & Malone of Roswell, New Mexico, a firm of attorneys all of whose members are duly licensed to practice law in the State of New Mexico, hereby enters its appearance as local counsel with Mr. Guy Buell, of the Texas Bar, appearing for Pan American Petroleum Corporation in said cause.

DATED at Roswell, New Mexico, this 3rd day of  
May, 1962.

ATWOOD & MALONE

By:



ATWOOD & MALONE  
LAWYERS

JEFF D. ATWOOD (1883-1960)  
ROSS L. MALONE  
CHARLES F. MALONE  
RUSSELL D. MANN  
PAUL A. COOTER  
BOB F. TURNER

1962 MAY 7 11 27

P. O. DRAWER 700  
TELEPHONE 505 622-6221  
SECURITY NATIONAL BANK BUILDING  
ROSWELL, NEW MEXICO

MAY  
3rd  
1962

New Mexico Oil Conservation Commission  
State Land Office Building  
Post Office Box 871  
Santa Fe, New Mexico

Re: Docket of May 10, 1962  
Cases Nos. 2547, 2548 and 2556

Gentlemen:

As local counsel for Pan American Petroleum Corporation,  
we enclose herewith our Entry of Appearance with Mr. Guy  
Buell of the Texas Bar in the above captioned cases.

Very truly yours,

ATWOOD & MALONE

By:



R  
D  
M

\*

v  
Encls.

Cc: J. K. Smith, Esquire  
Pan American Petroleum Corporation  
Oil and Gas Building  
Fort Worth, Texas

## NEW MEXICO OIL CONSERVATION COMMISSION

EXAMINER HEARING - DANIEL S. NUTTER

SANTA FE, NEW MEXICOREGISTERHEARING DATE MAY 10, 1962TIME: 9 A.M.

NAME:	REPRESENTING:	LOCATION:
Jaxon Kellahin	Kellahin & Fox	Santa Fe
C.R. Book	Texas	Phoenix
Gary Buell	Pan Am	FORT WORTH
E.F. Motter	Cities Service Pet. Co	Hobbs
J.T. Rodgers	Pan American	Subbork
J.E. Thomas	Pan American	Subbork
L.P. Whiteley	Subbork & Whiteley	Santa Fe
Walter H. Hahn	T.F. Hodge	Ft. Worth
W.M. Sargent, Jr	Calvert Corp	Tempe, Tex.
M.V. Eastler	GULF OIL CORP	Roswell, N.M.
V.M. Hendricks	✓	✓
L.R. Marshall	✓	✓
J.H. Hoover	✓	✓
C.W. Harrell	Tenneco Oil Co	Hobbs, N.M.

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  
May 10, 1962

EXAMINER HEARING

IN THE MATTER OF:

Application of Pan American Petroleum  
Corporation for a triple completion,  
Eddy County, New Mexico. Applicant,  
in the above-styled cause, seeks an  
order authorizing the triple completion  
(conventional) of its Greenwood Unit  
Well No. 7, located in Unit H, Section  
12, Township 19 South, Range 31 East,  
Eddy County, New Mexico, in such a  
manner as to permit the production of  
oil from undesignated Strawn, Wolfcamp,  
and Bone Spring pools through parallel  
strings of tubing.

Case 2547

BEFORE: Daniel S. Nutter, Examiner.

TRANSCRIPT OF HEARING

MR. NUTTER: The hearing will come to order, please.

The first case this morning will be Case 2547.

MR. MORRIS: Application of Pan American Petroleum Cor-  
poration for a triple completion, Eddy County, New Mexico.

MR. BUELL: May it please the Examiner, we have one wit-  
ness, Mr. Rodgers.

(Witness sworn.)



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JAMES T. RODGERS

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

DIRECT EXAMINATION

BY MR. BUELL:

Q Mr. Rodgers, would you state your complete name, by whom you are employed, and in what capacity and in what location, please?

A James T. Rodgers. I'm employed by Pan American in Lubbock as a petroleum engineer.

Q Would you briefly state for the record, Mr. Rodgers, your educational background in petroleum engineering?

A Yes, sir. I received a B.S. degree in petroleum engineering from L.S.U. and an M.S. degree in petroleum engineering from the University of Texas. I worked for three months with Gulf Oil on their engineering training program and one year at the University of Texas for the P.R.C. and assistant professor, three years with Texas Tech as assistant professor of petroleum engineering.

Q How long have you been employed by Pan American Petroleum Corporation?

A About a year.

Q How long have you been in Lubbock?

A About two months.



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Q Prior to that where were you stationed?

A In Hobbs.

MR. BUELL: Are his qualifications as a petroleum engineer accepted?

MR. NUTTER: Yes, sir. Please proceed.

Q Mr. Rodgers, will you look at what I'll mark as Pan American's Exhibit No. 1 and state briefly for the record what that exhibit is composed of?

A Yes, this exhibit is a brochure on our triple completion, the Greenwood Unit No. 7. This well is completed in the Lusk Strawn Oil - Wolfcamp Undesignated Oil and Bone Springs Undesignated Oil in Eddy and Lea Counties, New Mexico.

Q Let me ask you right at the outset, why is the hearing necessary for this triple, is it an unorthodox triple?

A Well, this is the first triple in these three zones.

Q It is a conventional triple, but it's just in three zones that have not been tripled in this area prior to this application?

A Yes, sir, that's right.

Q Would you go ahead and briefly discuss Exhibit No. 1 and point out to the Examiner the data which are reflected in this exhibit?

A Yes, sir. As shown on Attachment No. I on the right-hand side of the brochure, the well is located 1980 feet from the



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PHONE 243-8891

north line and 660 feet from the east line of Section 12, Township 19 South, Range 31 East, Eddy County, New Mexico. This well is just west of the Eddy-Lea County line. The nearest Strawn production is the El Paso Lusk Deep Unit Wells No. 1 and 2, and this unit is located approximately one and one-half miles southeast, which would place them in Lea County. The nearest Wolfcamp and Bone Springs production is the Pan American Greenwood Unit No. 3, approximately two miles northwest of Unit No. 7. This Greenwood is a dual in the Bone Springs and Wolfcamp, which is two of the three zones we are tripling the Greenwood 7 in.

If you turn the page, Attachment II is a diagramatic sketch of the submitted triple completion. We have shown here the type of completion. This is a three-tubing string completion, using two strings of OD Buttress Thread tubing and one string of 2-3/8" OD tubing.

The Bone Springs perforations are 8616 to 8658 and above the upper packer. The Wolfcamp perforations are 10,212 to 26 between the upper and lower packer. The Strawn perforations are 11,136 to 60. The upper packer is a Model FA, the lower is a Model D Baker.

The Attachment III is a Gamma Ray - Neutron Log of this well and we have shown marked on this log in red the tops of the pay sections, and also the perforations are indicated.





Attachment No. IV is a copy of Pan American's application for a multiple completion which was submitted by Pan American's letter of April 24, 1962.

Q Mr. Rodgers, are you submitting waivers from offset operators in connection with this application?

A No, sir. We do not request waivers because the offset operators are also part owners of the Greenwood Unit with Pan American.

Q But even though they all were partners, each one of them has been notified of this hearing here today?

A Yes, sir.

Q Do you happen to have with you the potentials on these three oil completions?

A Yes, sir. The three zones were all potentialized flowing oil. The Strawn flowed 206 barrels of oil and one barrel of water on 16/64 choke with 525 lb. tubing pressure. The GOR was 1150.

Q That was in what period of time?

A Twenty-four hour potential test.

Q Also on twenty-four hour potential, what did the Wolfcamp potential?

A The Wolfcamp flowed 220 barrels of oil and 20 barrels of water on 20/64 choke with a flowing tubing pressure of 300 lbs. The GOR was 1250. The Bone Springs zone was also on twenty-four

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hour potential and flowed 183 barrels of oil on 16/64 choke with a flowing tubing pressure of 950 lbs. The GOR was 787. All three zones have gravities above 40. The Bone Springs is 40.5, the Wolfcamp is 41, the Strawn is 44.5.

Q Mr. Rodgers, have packer leakage tests been conducted on this well yet?

A No, sir, they have not. They will be conducted and submitted as required. There's a good possibility they are being conducted today.

Q It's your recommendation that they approve the triple completion request subject to satisfactory packer leakage tests being filed in due course with the Commission?

A Yes, that's our recommendation.

Q In your opinion will the approval of this request by the Commission serve conservation in that it will prevent waste?

A Yes, sir, it will. It's our opinion right now that neither of these zones is capable of supporting oil commercially on a single completion. Unless future data shows otherwise, we don't expect this to be prolific production, so thereby, by triple completing we feel that we have an opportunity to complete and produce from all three zones.

Q In that each one of these separate reservoirs will be completely isolated in this well bore, certainly there's no



opportunity for the violation of the correlative rights of any owners of interest in the area, is there?

A No, sir.

Q Do you have anything else you would like to add, Mr. Rodgers?

A No, sir, I don't.

MR. BUELL: That's all we have at this time, Mr. Examiner.

MR. NUTTER: Are there any questions of Mr. Rodgers?

CROSS EXAMINATION

BY MR. NUTTER:

Q Mr. Rodgers, is this well in the potash area?

A No, sir, it is not, Mr. Nutter.

Q Pan American was recently drilling a deep test in the potash area?

A To my knowledge, that was the Big Eddy Unit No. 1.

MR. BUELL: The what?

A The Big Eddy Unit No. 1. I believe that's properly called the Big Eddy Deep Unit No. 1.

Q Is the cement circulated on the 9-5/8" pipe?

A No, sir, it's not.

Q What is the top of the cement?

A The top of the cement on the 9-5/8" is not known. As it indicates there, there was 750 sacks of Incor used.

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Q I missed your flowing tubing pressure on the Strawn.

A The Strawn flowing tubing pressure, 525 PSI.

Q And the GOR again? A 1150.

Q Do you have bottom hole pressures on any of these zones?

A No, sir, we don't have any as yet. We do plan to take some.

MR. NUTTER: Any further questions of Mr. Rodgers? He may be excused.

(Witness excused.)

MR. BUELL: May I formally offer Pan American's exhibit in evidence?

MR. NUTTER: Pan American's Exhibit No. 1 will be entered in evidence. Do you have anything further, Mr. Buell?

MR. BUELL: No, sir.

MR. NUTTER: Does anyone have anything further to offer in Case 2547? We will take the case under advisement.



STATE OF NEW MEXICO )  
 ) ss  
 COUNTY OF BERNALILLO )

I, ADA DEARNLEY, Court Reporter, do hereby certify that the foregoing and attached transcript of proceedings before the New Mexico Oil Conservation Commission at Santa Fe, New Mexico, is a true and correct record to the best of my knowledge, skill and ability.

IN WITNESS WHEREOF I have affixed my hand and notarial seal this 21st day of May, 1962.

*Ada Dearnley*  
 Notary Public-Court Reporter

My commission expires:

June 19, 1963.

I do hereby certify that the foregoing is a complete record of the proceedings in the hearing of Case No. 2547 heard by me on 5/10, 1962.

*Examiner*  
 New Mexico Oil Conservation Commission

DEARNLEY-MEIER REPORTING SERVICE, Inc.

FARMINGTON, N. M.  
 PHONE 325-1182

ALBUQUERQUE, N. M.  
 PHONE 243-6691



*Case 2547*

## PAN AMERICAN PETROLEUM CORPORATION

1962 APR 25 AM 11  
P. O. Box 268  
Lubbock, Texas  
April 24, 1962

File: CDF-6222-986.510.1

Subject: Application For Permission To  
Triple Complete the Pan American  
Et al, Greenwood No. 7 In The  
Lusk Strawn (Oil) - Wolfcamp  
Undesignated (Oil) - Bone Springs  
Undesignated (Oil) Pools  
Eddy County, New Mexico

Mr. A. L. Porter, Jr.  
Secretary-Director  
New Mexico Oil Conservation Commission  
P. O. Box 871  
Santa Fe, New Mexico

Dear Sir:

In accordance with the provisions of Statewide Rule No. 112, Pan American Petroleum Corporation respectfully requests that you schedule for an early docket a hearing to consider its application for permission to triple complete the subject well in the pools specified above. As shown on the attached plat, this well is located 1980 feet from the north line and 660 feet from the east line of Section 12, T-19-S, R-31-E, Eddy County, New Mexico.

In support of this application we enclose herewith three copies of State Form Application For Multiple Completion, a plat showing the location of this well, and a diagramatic sketch showing the manner in which we propose to triple complete. We presently have only field prints of the logs run on this well. We will furnish a finished print of the well log at the hearing.

Greenwood No. 7 is located within the limits of the Greenwood Pre-Grayburg Unit and is on acreage dedicated by Carper Drilling Company. It is offset to the north, east, and west by Greenwood Unit acreage which is operated by


Mr. A. L. Porter, Jr.

-2-

April 24, 1962

Pan American. It is offset to the southwest, south, and southeast by acreage held by Continental Oil Company, Shell Oil Company, and Pan American. Copies of this application are being furnished these companies who are also co-owners of Greenwood No. 7.

Yours very truly,

  
A. J. Inderrieden  
District Engineer

WJS:lam

Enclosures

cc: Continental Oil Company - W/Attach.  
Shell Oil Company - W/Attach.  
Carper Drilling Company - W/Attach.

## NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

10212-26

5-1-61

## APPLICATION FOR MULTIPLE COMPLETION

Operator <b>Pan American Petroleum Corporation</b>		County <b>Eddy</b>	Date <b>4-24-62</b>
Address <b>P. O. Box 268, Lubbock, Texas</b>		Lease <b>Greenwood #1 7</b>	Well No. <b>7</b>
Location or well <b>H</b>	Unit <b>12</b>	Section <b>19 South</b>	Range <b>R-31-E</b>

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
2. If answer is yes, identify one such instance: Order No. \_\_\_\_\_; Operator, Lease, and Well No.:

3. The following facts are submitted:	Upper Zone	Intermediate Zone	Lower Zone
a. Name of Pool and Formation	<b>Bone Springs Un-</b>	<b>Wolfcamp Undesignated</b>	<b>Lusk Strawn</b>
b. Top and Bottom of Pay Section (Perforations)	<b>designated</b> <b>8616-58</b>	<b>10212-26</b>	<b>11136-60</b>
c. Type of production (Oil or Gas)	<b>To be tested</b>	<b>Oil</b>	<b>Oil</b>
d. Method of Production (Flowing or Artificial Lift)	<b>To be tested</b>	<b>Flowing</b>	<b>Flowing</b>

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

- ☒ 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.
- ☒ 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 multiple 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.

<b>Continental Oil Company</b>	<b>Roswell, New Mexico</b>
<b>Shell Oil Company</b>	<b>Roswell, New Mexico</b>
<b>Carper Drilling Company</b>	<b>Artesia, New Mexico</b>

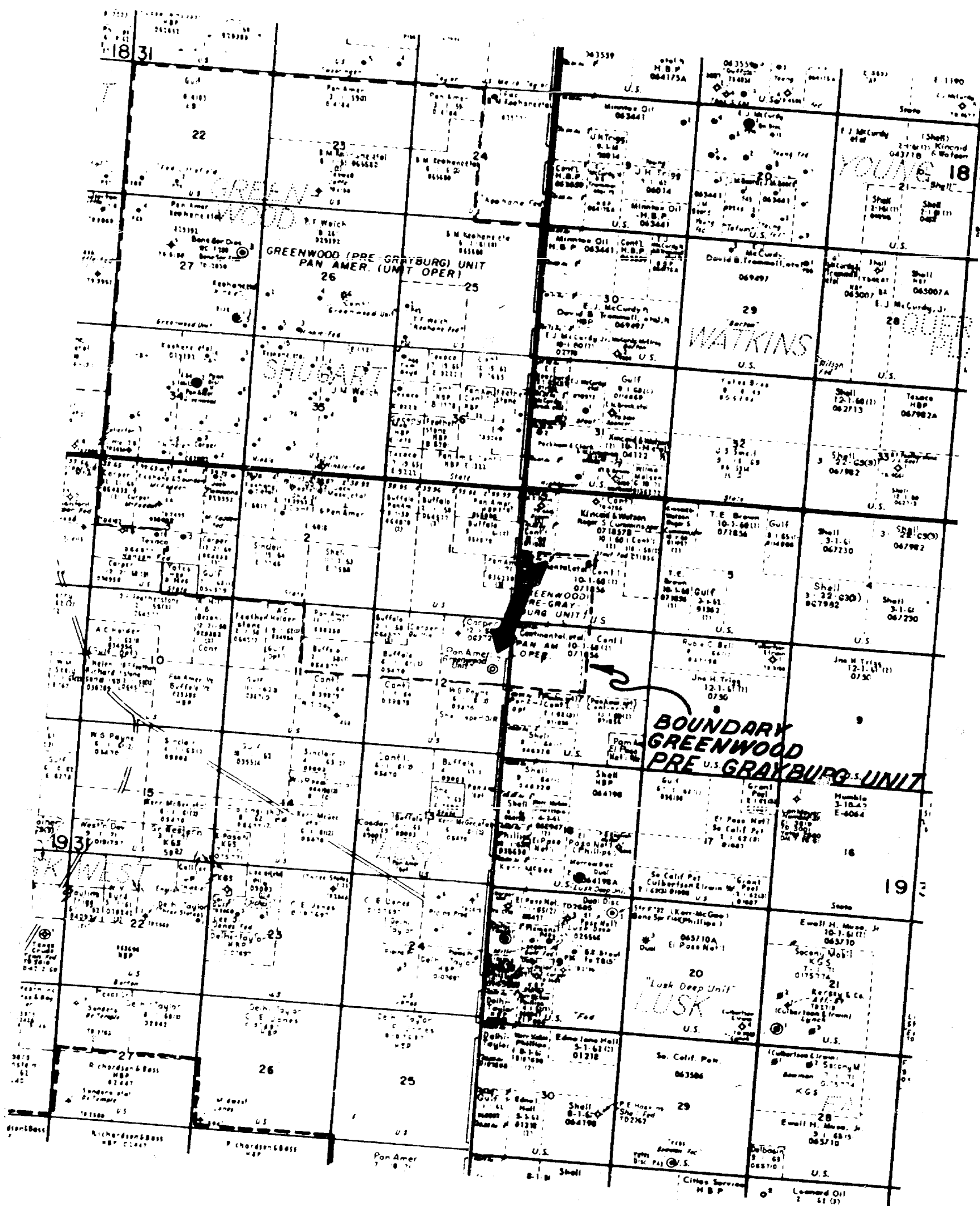
6. Were all operators listed in Item 5 above notified and furnished a copy of this application? YES ☒ NO ☐. If answer is yes, give date of such notification **April 24, 1962**.

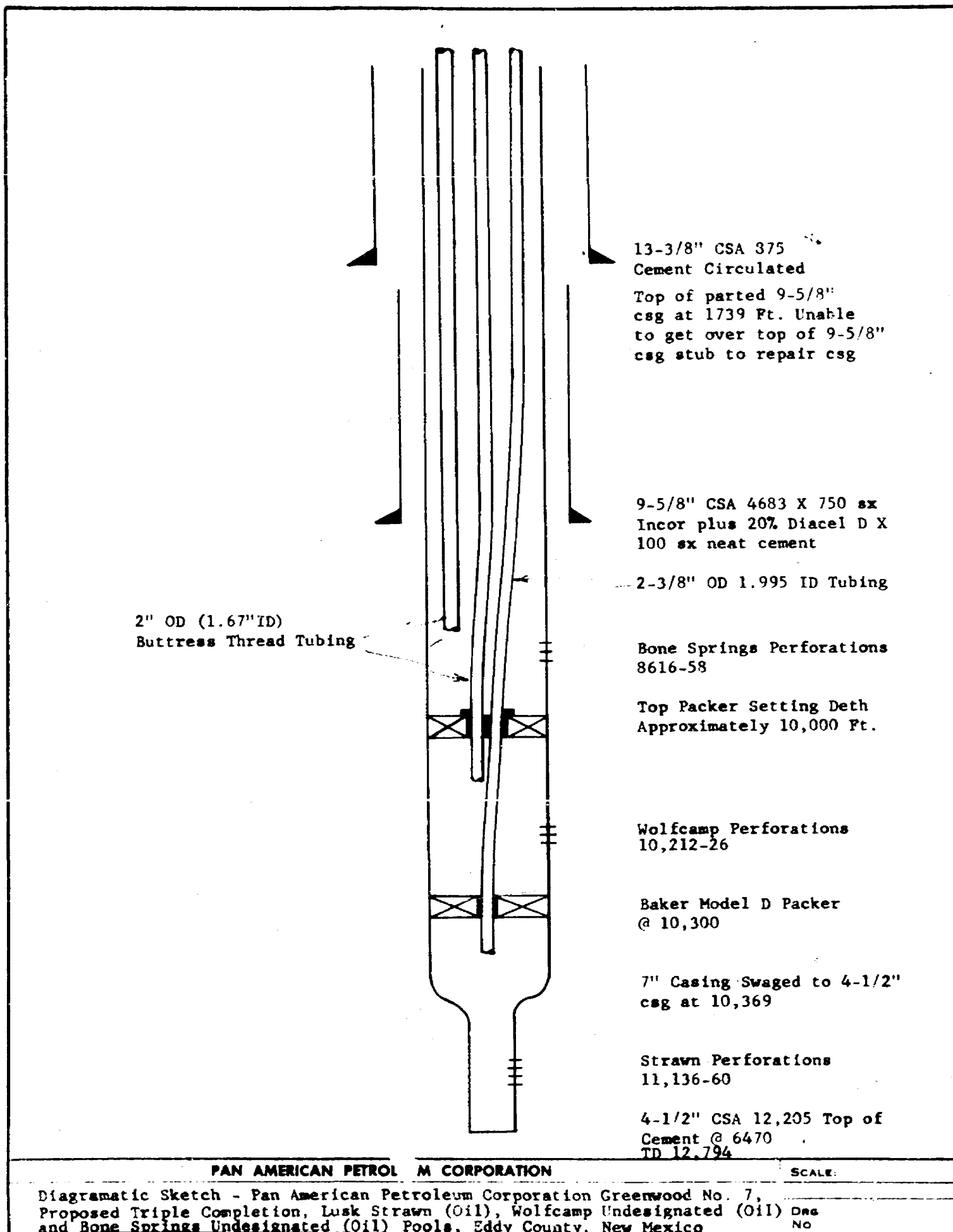
CERTIFICATE: I, the undersigned, state that I am the \_\_\_\_\_ of the \_\_\_\_\_ (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best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

*A. J. Inderrieden*  
A. J. Inderrieden Signature District Engineer

- \* 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.







### DISCUSSION

Pan American Petroleum Corporation respectfully requests that the New Mexico Oil Conservation Commission grant permission to triple complete its Greenwood Pre-Grayburg Unit Well No. 7 in the Lusk Strawn (Oil) - Wolfcamp Undesignated (Oil) Bone Springs Undesignated (Oil) Pools of Eddy and Lea Counties, New Mexico.

As shown on Attachment I, Greenwood No. 7 is located 1980 feet from the north line and 660 feet from the east line of Section 12, T-19-S. R-31-E, Eddy County, New Mexico. This location is very near the Eddy-Lea County line and approximately 30 miles northeast of Carlsbad, New Mexico.

The nearest Strawn Production is in the El Paso Lusk Deep Unit Wells No. 1 and 2, located in Sections 18 and 19, T-19-S. R-32-E, approximately 1-1/2 miles southeast of Greenwood No. 7. The nearest Wolfcamp and Bone Springs production is in the Pan American Greenwood No. 3 located in Section 27, T-19-S, R-31-E, approximately 2 miles northwest of Greenwood No. 7.

Attachment II is a diagrammatic sketch showing the manner in which this well has been triple completed. This is a "conventional" triple completion in 7" casing with each horizon producing through a separate tubing string. The use of two packers and separate tubing strings will prevent the commingling of fluids from the three horizons in the well bore and will permit the safe and efficient production of oil from these three reservoirs.

Attachment III is a Gamma Ray-Neutron Log of Greenwood No. 7 with the perforated intervals and formation tops marked thereon in red.

Attachment IV presents, for convenience, a copy of Pan American's application for multiple completion which was submitted by Pan American's letter of April 24, 1962, File: CDF-6222-986.510.1.

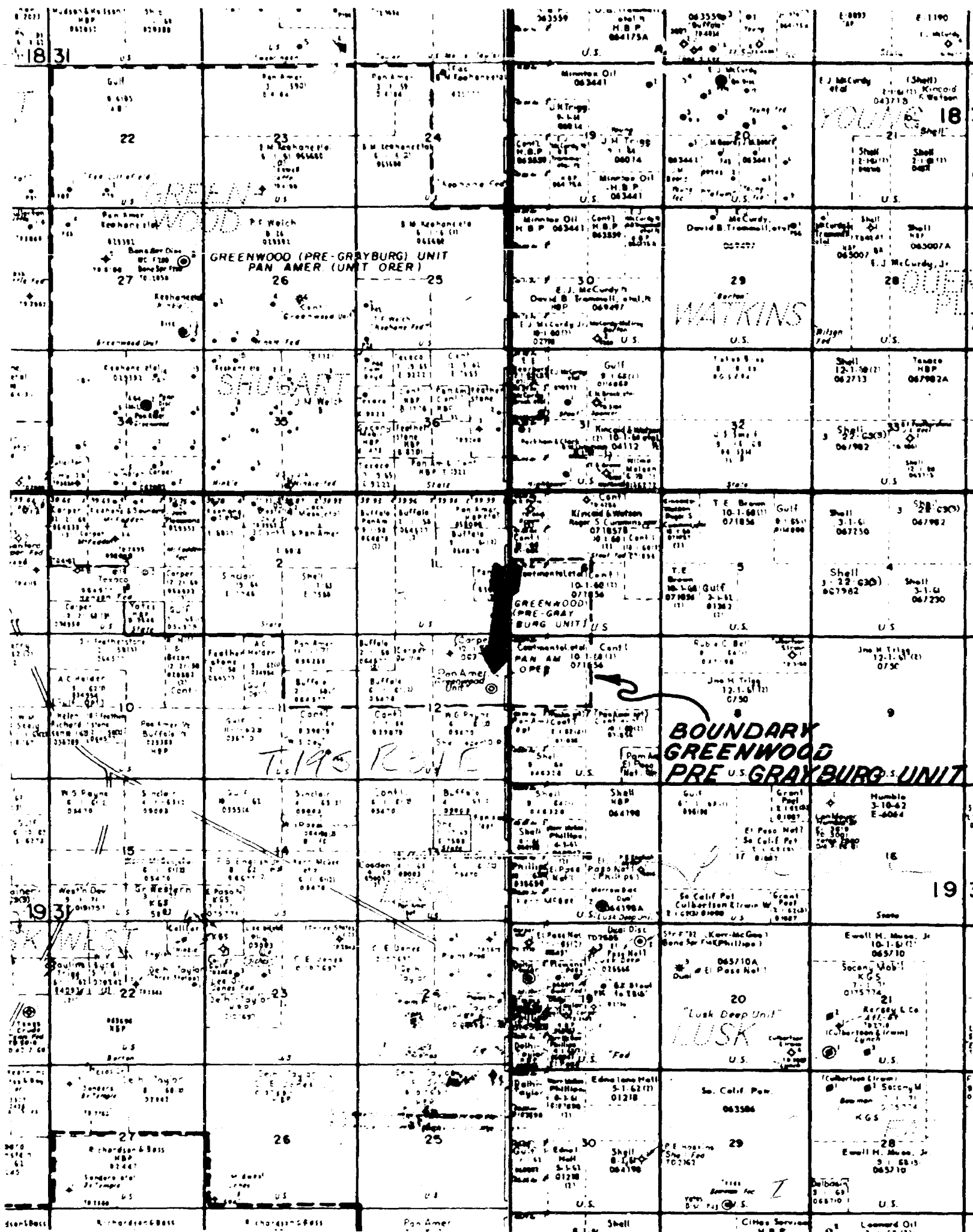
Waivers of objection to this application have not been requested of the offset operators since these operators are also part owners of Greenwood No. 7. Copies of Pan American's application for multiple completion were furnished these partners; Shell Oil Company, Continental Oil Company, and Carper Drilling Company, by copies of Pan American's letter of April 24, 1962, File: CDF-6222-986.510.1.

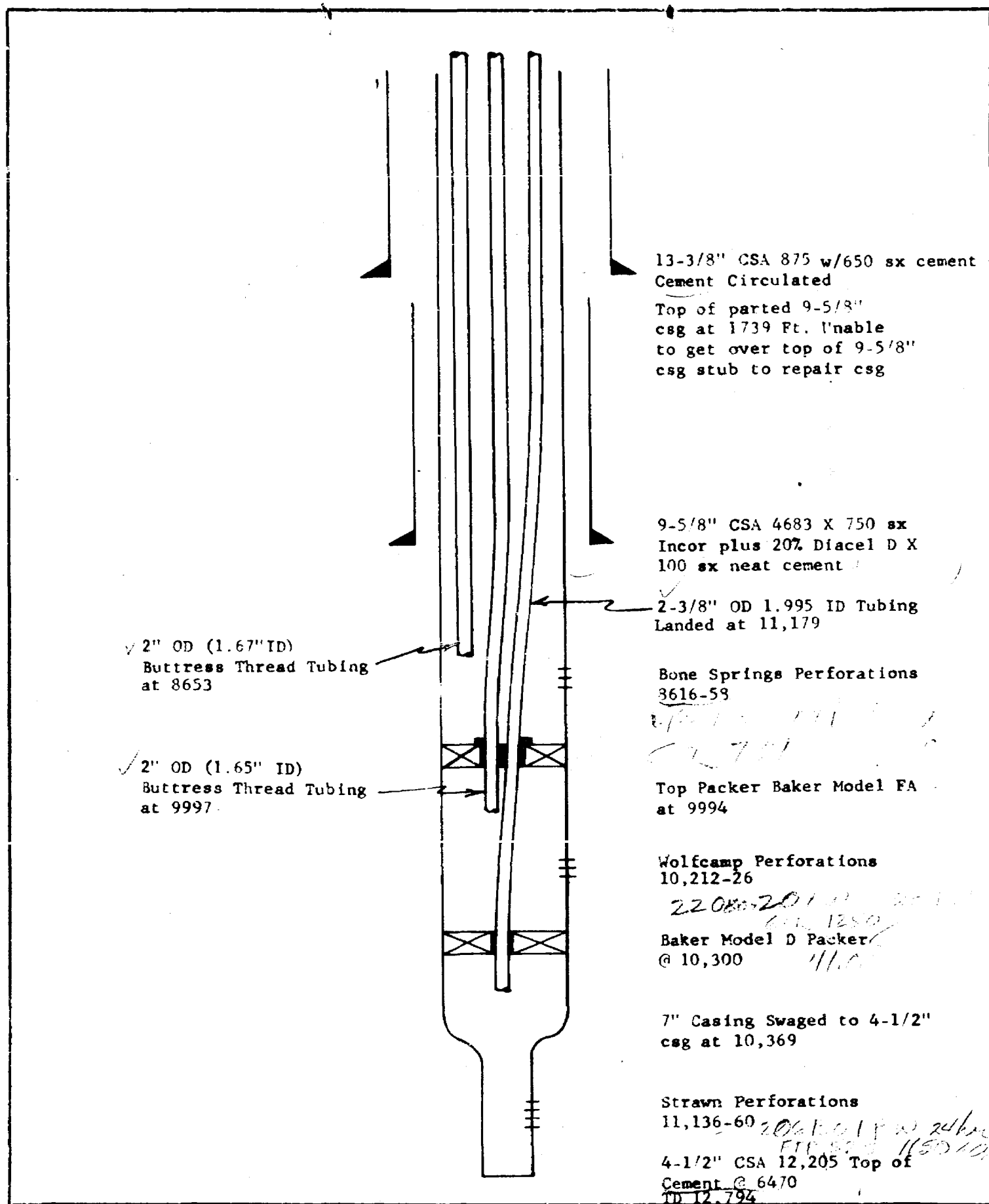
BEFORE EXAMINER NUTTER	
OIL CONSERVATION COMMISSION	
EXHIBIT NO.	1
CASE NO.	2547

EXHIBIT

PAN AMERICAN PETROLEUM CORPORATION'S  
APPLICATION FOR PERMISSION TO TRIPLE  
COMPLETE ITS GREENWOOD PRE-GRAYBURG UNIT  
WELL NO. 7 IN THE LUSK STRAWN (OIL) -  
WOLFCAMP UNDESIGNATED (OIL) AND BONE  
SPRINGS UNDESIGNATED (OIL) POOLS  
LEA AND EDDY COUNTIES, NEW MEXICO

EXAMINER HEARING CASE NO. \_\_\_\_\_  
MAY 10, 1962





PAN AMERICAN PETROLEUM CORPORATION

SCALE

Diagrammatic Sketch - Pan American Petroleum Corporation Greenwood No. 7,  
Proposed Triple Completion, Lusk Strawn (Oil), Wolfcamp Undesignated (Oil)  
and Bone Springs Undesignated (Oil) Pools, Eddy County, New Mexico

DRG  
No

## NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

5-1-61

## APPLICATION FOR MULTIPLE COMPLETION

Operator <b>Pan American Petroleum Corporation</b>		County <b>Eddy</b>	Date <b>4-24-62</b>
Address <b>Box 268, Lubbock, Texas</b>		Lease <b>Greenwood</b>	Well No. <b>7</b>
Location of Well <b>H</b>	Unit <b>12</b>	Township <b>19 South</b>	Range <b>31 East</b>

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 ☒
2. If answer is yes, identify one such instance: Order No. \_\_\_\_\_; Operator, Lease, and Well No.:

3. The following facts are submitted:	Upper Zone	Intermediate Zone	Lower Zone
a. Name of Pool and Formation	<b>Hone Springs Undesignated</b>	<b>Wolfcamp Undesignated</b>	<b>Lusk Strawn</b>
b. Top and Bottom of Pay Section (Perforations)	<b>8614-58</b>	<b>10212-26</b>	<b>11136-60</b>
c. Type of production (Oil or Gas)	<b>To be tested</b>	<b>Oil</b>	<b>Oil</b>
d. Method of Production (Flowing or Artificial Lift)	<b>To be tested</b>	<b>Flowing</b>	<b>Flowing</b>

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

- ☒ 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.
- ☒ 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 multiple 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.

**Continental Oil Company - Roswell, New Mexico**

**Shell Oil Company - Roswell, New Mexico**

**Carper Drilling Company - Artesia, 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 **April 24, 1962**.

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.

**A. J. Inderrieden** Signature **District Engineer**

- \* 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 perforation unit in either or both of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

*IV*