

NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

Case 2018

7-3-58

TRIPLE  
APPLICATION FOR ~~DUAL~~ COMPLETION

MAIN OFFICE OCC

Field Name West Lindrith		County Rio Arriba		Date 7/5/60
Operator Continental Oil Company		Lease Jicarilla Apache		Well No. 27-2
Location of Well	Unit	Section 27	Township 25 North	Range 4 West

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

3. The following facts are submitted:	Upper Zone <del>Upper Zone</del>	Lower Zone <del>Lower Zone</del>	Deepest Zone <del>Deepest Zone</del>
a. Name of reservoir	Gallup	Greenhorn	Dakota
b. Top and Bottom of Pay Section (Perforations)	6445 to 7005 (proposed)	7332 to 7392 (proposed)	7412 to 7700 (proposed)
c. Type of production (Oil or Gas)	Oil	Oil	Oil
d. Method of Production (Flowing or Artificial Lift)	Flowing	Flowing	Flowing

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

- yes a. Diagrammatic Sketch of the Dual Completion, showing all casing strings, including size and setting, top of cement, perforated intervals, tubing strings, including diameters and setting depth, location and type of packers and side door chokes, and such other information as may be pertinent.
- yes b. Plat showing the location of all wells on applicant's lease, all offset wells on offset leases, and the names and addresses of operators of all leases offsetting applicant's lease.
- \_\_\_\_\_ c. Waivers consenting to such dual completion from each offset operator, or in lieu thereof, evidence that said offset operators have been furnished copies of the application.\*
- \_\_\_\_\_ d. Electrical log of the well or other acceptable log with tops and bottoms of producing zones and intervals of perforation indicated thereon. (If such log is not available at the time application is filed, it shall be submitted as provided by Rule 112-A.)

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

1. Humble Oil Company - P. O. Box 1287 - Roswell, New Mexico
2. El Paso Natural Gas Products Co. - P. O. Box 977 - Farmington, 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 July 5, 1960 .

CERTIFICATE: I, the undersigned, state that I am the Attorney of the Continental Oil Company (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.

*Handwritten notes:*  
Hochstetler  
M...  
7-15-60

*Handwritten notes:*  
1755  
Glenwood  
Denver 2, Colo

*Handwritten signature:*  
William M. Griffith

Signature

Should waivers from all offset operators not accompany an application for administrative approval, the New Mexico Oil Conservation Commission will hold the application for a period of twenty (20) days from date of receipt by the Commission's Santa Fe office. If, after said twenty-day period, no protest nor request for hearing is received by the Santa Fe office, the application will then be processed.

NOTE: If the proposed dual completion will result in an unorthodox well location and/or a non-standard 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.

Case  
2018

ADDITIONAL DATA FOR TRIPLE COMPLETION

This well will be located in the C NW NW Sec. 27, T25N, R4W, Rio Arriba County, New Mexico. The well will produce oil from the Dakota, Greenhorn and Gallup formations. Attached is a sketch of the proposed completion.

Basically, the program will consist of the following:

1. Drill a 16" hole to 200'.
2. Run 200' of 13 3/8" surface pipe and cement to surface.
3. Drill a 12" hole to the base of the Gallup formation or approximately 6900'.
4. Drill a 9" hole from the base of the Gallup to TD at the base of the Dakota formation.
5. Run and hang 4 1/2" OD casing to the base of the Dakota.
6. Run and hang 2 7/8" OD casing to the base of the Greenhorn.
7. Run and hang 4 1/2" OD casing to the base of the Gallup.
8. Cement the Dakota and the Greenhorn through the Dakota string of 4 1/2" OD casing.
9. Cement the Gallup through the Gallup string of 4 1/2" OD casing.
10. Cement the Mesa Verde through a stage collar in the Dakota string.
11. Cement the Pictured Cliffs through a stage collar in the Gallup string.
12. Perforate each producing zone (Dakota, Greenhorn and Gallup) separately utilizing a gun which can be oriented to perforate only one string at a time.
13. Selectively sand-oil treat the Gallup and Dakota formations.
14. Acidize the Greenhorn formation.
15. Complete each string for production through a casing head which will prevent commingling of the hydrocarbons.

Dakota

This is a sandstone, fine to medium grained, fractured, low porosity and permeability, interbedded with black marine shales. The Dakota is considered as a common source of supply based on the environment of deposition (a fractured system of sand bodies interbedded with black marine shales). The Dakota is normally isolated from zones above and below with an impermeable shale.

Greenhorn

A series of interbedded fractured marine limestone and limey shale. This formation is considered as having a common source of supply separate from that of the Dakota, due to its environment of deposition.

Gallup

A sequence of fine-grained beach sands interbedded in a matrix of fractured marine shales and siltstones. This formation is considered to have a common source of supply separate from that of the formations immediately above and below. The marine shales are considered the source beds and this formation is bounded above and below by impermeable shale.

We believe this proposed type of completion is necessary to economically develop the Jicarilla Apache lease. This type of completion will prevent waste of the resources of the State of New Mexico by the use of proper production practices. It will also protect the correlative rights of everyone concerned by providing separate production facilities for each of the three producing formations which will prevent the commingling of the hydrocarbons.

A F F I D A V I T

My name is Kenneth Kirkland. I am an employee of Continental Oil Company as Continental's Land Superintendent of the Durango Division. I am familiar with Exhibit 1 prepared for Continental's application in Case No. 2018 scheduled for hearing on July 27, 1960. This exhibit was prepared under my supervision. The shaded area shows our acreage in the West Lindreth Block No. 207 in Rio Arriba County, New Mexico.

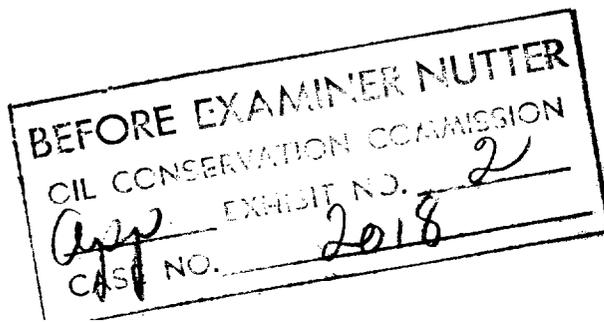
The proposed triple completion will be located in the C NW NW, Section 27, Township 25 North, Range 4 West. Exhibit 1 correctly shows the ownership of acreage surrounding Continental's leases.

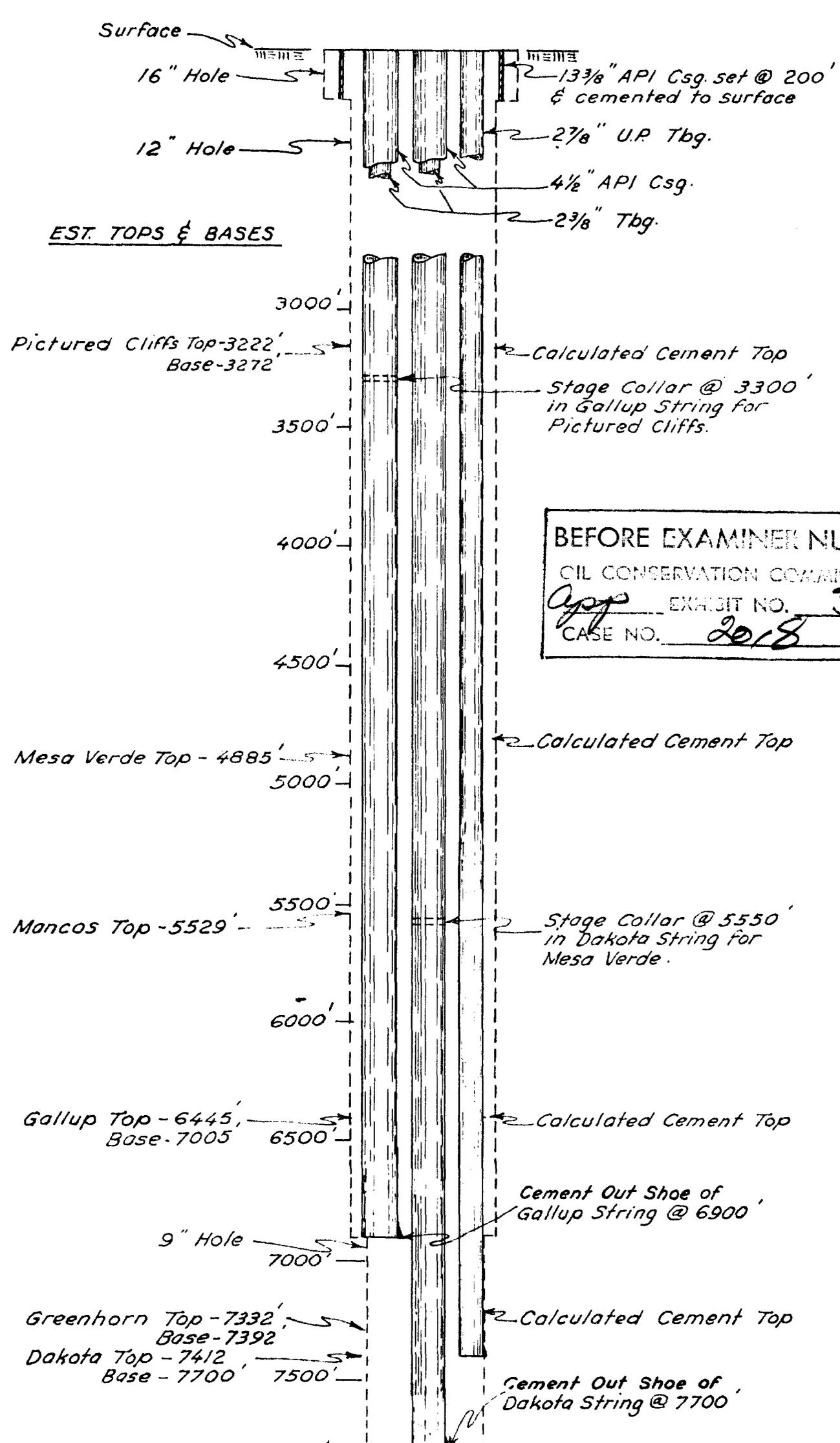
Kenneth Kirkland  
Kenneth Kirkland

Subscribed and sworn to before me this 25<sup>th</sup> day of July, 1960.  
My commission expires My Commission expires September 9, 1963

Paul Gray Merry  
Notary Public

(SEAL)



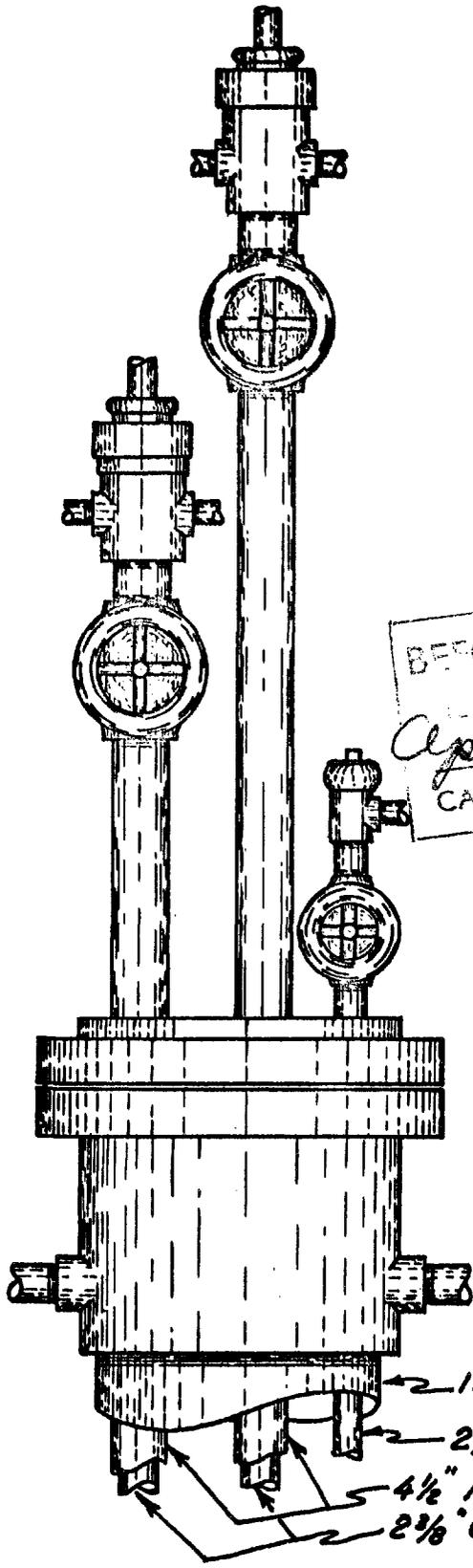


EST. TOPS & BASES

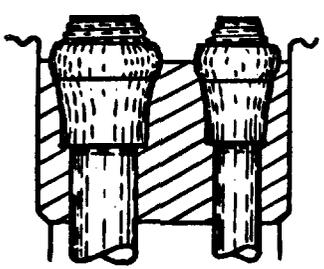
BEFORE EXAMINER NUTTER  
 OIL CONSERVATION COMMISSION  
*App* EXHIBIT NO. 3  
 CASE NO. 2018

T.D. - 7700'  
**PROPOSED CASING AND CEMENTING PROGRAM  
 FOR TRIPLE COMPLETING A WELL**  
 CONTINENTAL OIL COMPANY  
 JICARILLA APACHE 28 - WELL No. 27-2

NOT TO SCALE



BEFORE EXAMINED NUTTER  
 ALL CONNECTIONS O.C. SECTION  
 Appl. EXHIBIT NO. 4  
 CASE NO. 2018



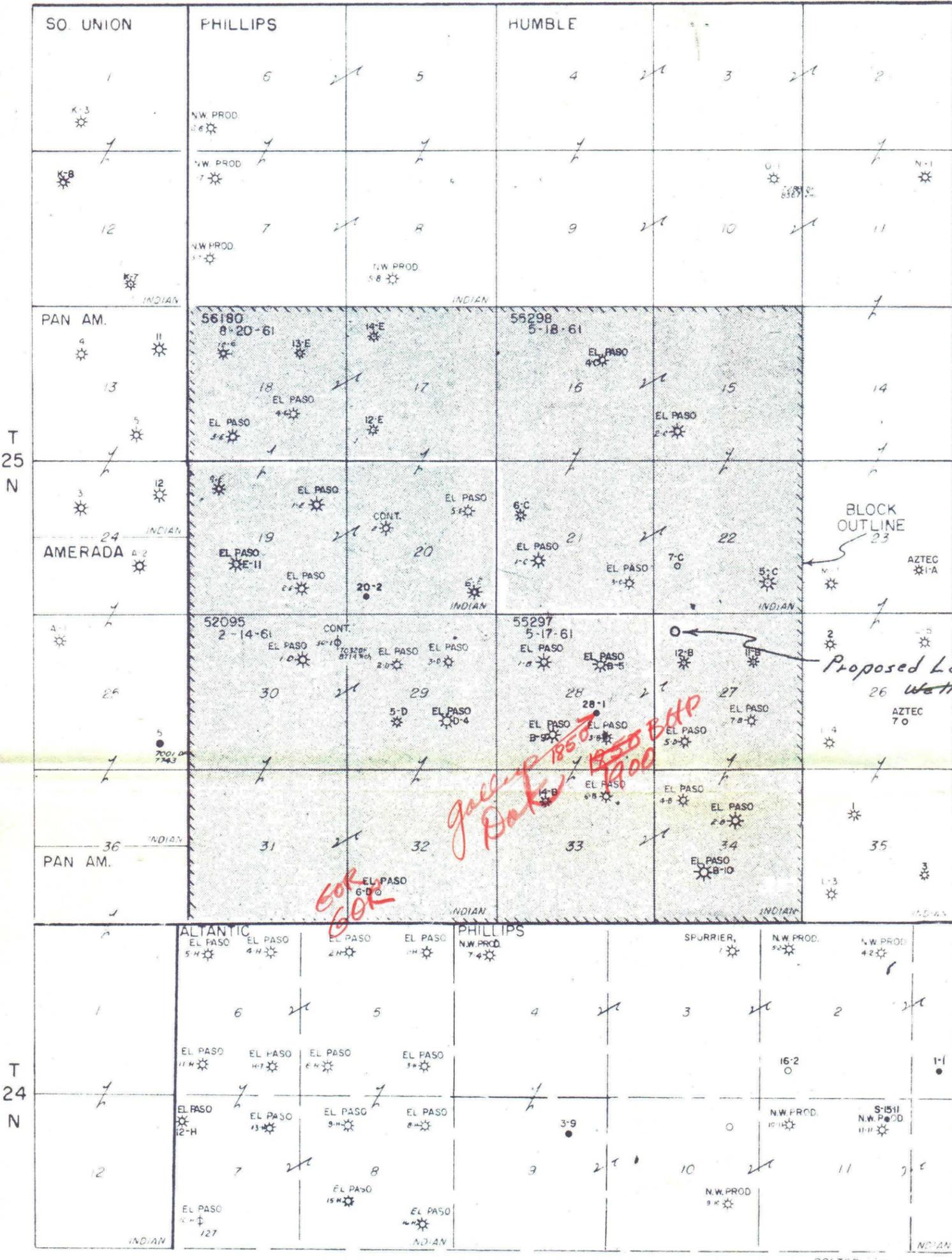
Landing Mandrels

- 13 3/8" API Csg. - 8 rnd. thd.
- 2 7/8" OD API UP Tbg. - 8 rnd. thd.
- 4 1/2" API Csg. - 8 rnd. thd.
- 2 3/8" OD API Tbg. - 8 rnd. thd.

2000 Lb. Cold Working Pressure

CONTINENTAL OIL COMPANY
WELLHEAD ASSEMBLY TRIPLE CASING COMPLETION
NOT TO SCALE

R 4 W



POSTED 2-

Note: Shallow Gas rights farmed out to El Paso  
 Natural Gas Company under Contract No 8879  
 Entire block within K.G.S.

WEST LINDRITH BLOCK NO. 207  
 RIO ARRIBA CO., N. MEX.

BEFORE EXAMINER NUTTER  
 OIL CONSERVATION COMMISSION  
 App. EXHIBIT NO. \_\_\_\_\_  
 CASE NO. 2018

T29N-T25N  
 R9W-R5W

LARGE FORMAT  
EXHIBIT HAS  
BEEN REMOVED  
AND IS LOCATED  
IN THE NEXT FILE