FORM 470 2-57

Case 2225

PAN AMERICAN PETROLEUM CORPORATION

Lubbock, Texas
February 24, 1961

File: CDF-5183-986.510.1

Subject: Application for Dual Completion
Pan American Petroleum Corporation
Hugh Corrigan Well No. 2
Brunson-Ellenburger
Wantz Abo Pools
Lea County, New Mexico

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

Dear Sir:

In accordance with the provisions of New Mexico Oil Conservation Commission's Statewide Rule 112-A, we enclose herewith in triplicate our Application for permission to dually complete the Pan American Hugh Corrigan Well No. 2 in the Brunson-Ellenburger, Wantz Abo Field. Attached thereto, as supporting evidence, are a diagramatic sketch showing mechanical details of this completion, a plat showing the location of all wells on this lease and all offsetting wells and leases, and an electrical log of the well.

By copy of this letter to Mobil Oil Company, we are requesting a waiver of objection to this dual completion.

Our files do not indicate that any wells have been dually completed in the Brunson Ellenburger and Wantz Abo pools and we, therefore, respectfully request that you schedule this matter for public hearing on an early docket.

Yours very truly,

Neil S. Whitmore
District Superintendent

WJS:jn
Attachment

cc: Mobil Oil Co.- w/attach.
Box 2406
Hobbs, New Mexico

Docket's Mailed 3-10-61

NEW MEXICO OIL CONSERVATION COMMISSION

Case 2225

SANTA FE, NEW MEXICO 7-3-58

APPLICATION FOR DUAL COMPLETION

Field Name	County	Date
Brunson Ellenburger - Wantz Abo	Lea	February 24, 1961

Operator	Lease	Well No.
Pan American Petroleum Corporation	Hugh Corrigan	2

Location of Well	Unit	Section	Township	Range
	I	33	21-S	37E

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	Lower Zone
a. Name of reservoir	Wantz - Abo	Brunson Ellenburger
b. Top and Bottom of Pay Section (Perforations)	7018-7038 7223-7238 7109-7129 7260-7280 7175-7195	7410-7438
c. Type of production (Oil or Gas)	Oil	Oil
d. Method of Production (Flowing or Artificial Lift)	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.

No c. Waivers consenting to such dual completion from each offset operator, or in lieu thereof, evidence that said offset operators have been furnished copies of the application.*

Yes 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.

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

Pan American Petroleum Corporation, Box 268, Lubbock, Texas

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 February 24, 1961.

CERTIFICATE: I, the undersigned, state that I am the District Engineer of the Pan American Petroleum Corp. Lubbock District (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

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

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

28 27 T-21-S

Edgar O Carson MAGNOLIA GULF ALOCO Dual

Wm. S. Marshall OHIO

Alvin Hardison HUMBLE

Edgar O Carson MAGNOLIA

GULF ALOCO J. M Carson GULF

Marshall Unit MOBIL

F. F Hardison HUMBLE

B HUMBLE Dual

E. Carson MOBIL

W H Carson MOBIL

EUNICE

33 34

Corrigan MOBIL

Hugh Corrigan STANOLIND 71291 A H H.B.P 40 Ac. "Less 2.8"

Eva Owen "B" STANOLIND 71290 (1/2 Int.) H.B.P 160 Ac Less: Oil pmt

Mark Owen GULF

H. Corrigan MOBIL

T-22-S R-37-E

39.91 Ac. 39.86 Ac. 39.80 Ac. 39.75 Ac. 39.73 Ac. 39.74 Ac. 39.76 Ac. 39.77 Ac.

W. M Rinewalt SOUTHERN EXPL. CO. SHELL

Corrigan AMERADA (TWIN OIL)

E. Owen SUNRAY - MID CONTINENT

Mark Owen GULF

Eva Owen "A" STANOLIND 19336 H.B.P 40 Ac

AMERADA GULF

Brunson SINCLAIR

CITIES SERVICE-REPOLLO

CITIES SERVICE L REPOLLO

R. L Clifton TIDE WATER

Stitcher GULF

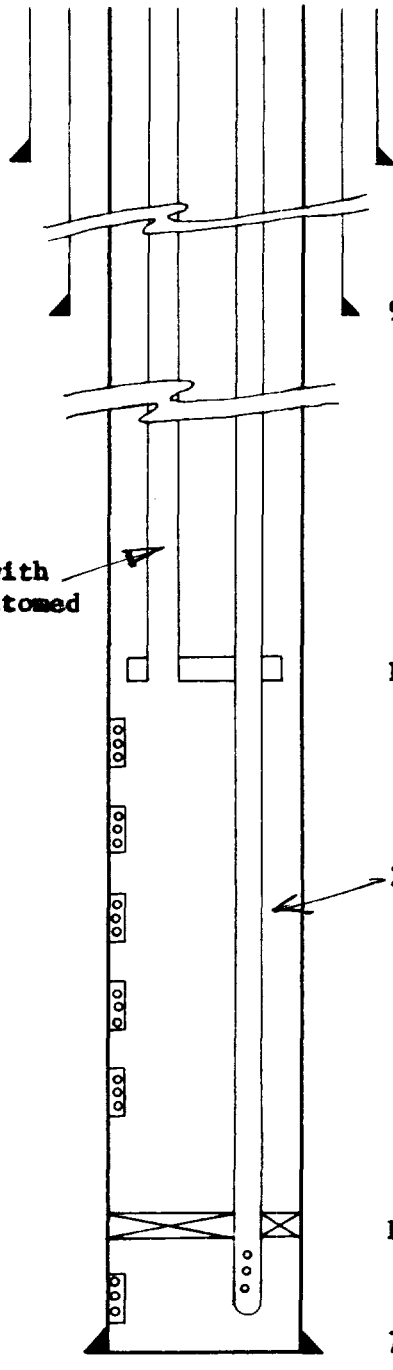
PETERS ELDER "E" TIDE WATER

R. L Brunson CITIES SERVICE

Elliott "9-B"

PACIFIC

PAN AMERICAN PETROLEUM CORPORATION
DIAGRAMATIC SKETCH OF MECHANICAL INSTALLATION
OIL - OIL DUAL COMPLETION
HUGH CORRIGAN NO. 2
BRUNSON ELLENBURGER - WANTZ ABO POOLS



13 3/8" casing set at 298' with 280 sacks of cement

9 5/8" casing set at 2953 with 1500 sacks of cement, top of cement at 1350 Ft. by Temperature Survey

2 3/8" Tubing (1.995 ID) with turned down collars bottomed at 7007

Abo Perforations

7018 - 38

7109 - 29

7175 - 95

7223 - 38

7260 - 80

Baker parallel string anchor with Latching sub set at 7007

2 3/8" Tubing (1.995" ID) with Baker locator sub, seal assembly, and perforated production tube bottomed at 7412

Baker Model D Packer with latching sub set at 7350

Ellenburger Perforations
7410 - 7438

7" casing set at 7452 with 550 sacks of cement. Top of cement at 2758 Ft. by Temperature Survey.

TD 7452

ATTACHMENT II

Scale: None

EVIDENCE OF SEPARATION BETWEEN THE BRUNSON ELLENBURGER AND WANTZ ABO POOLS

1. The New Mexico Oil and Gas Engineering Committee Annual Report for 1959 indicates the following bottom hole pressure data which are indicative that separation exists between the two reservoirs:

Brunson Ellenburger Pool		Wantz Abo Pool	
Date	Avg. BHP @ -4300 Datum After 48 Hr. SI	Date	Avg. BHP @ -3750' Datum After 48 Hr. SI
Dec. 1956	665.6 psi	Jan. 1956	1268.5 psi
Dec. 1957	513.8 psi	Mar. 1957	2477.0 psi
Dec. 1958	475.9 psi	July 1957	1855.5 psi
Dec. 1959	527.8 psi	Jan. 1958	1122.8 psi
		July 1958	1132.5 psi
		Jan. 1959	1090.3 psi

2. Reference to the radioactivity log of the well, Attachment IV, will indicate approximately sixty feet of detrital material between the Abo (Base of the Permian) and the top of the Ellenburger. This material is believed to be predominately impermeable shales, and limestones with streaks of dolomite and chert. It is believed that this amount of impermeable material is sufficient to provide separation between the two reservoirs.