

## NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

7-3-58

## APPLICATION FOR DUAL COMPLETION

Field Name <b>Angel Peak Gallup &amp; Angel Peak Dakota Ext.</b>		County <b>San Juan</b>	Date <b>April 21, 1959</b>
Operator <b>El Paso Natural Gas Company</b>		Lease <b>Huerfano Unit</b>	Well No. <b>106 (GD)</b>
Location of Well <b>J</b>	Unit <b>33</b>	Township <b>27N</b>	Range <b>10W</b>

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

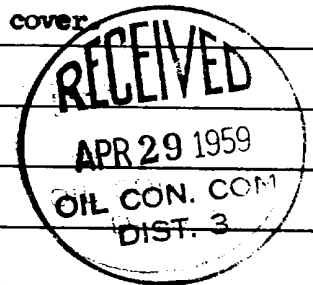
3. The following facts are submitted:	Upper Zone	Lower Zone
a. Name of reservoir	<b>Gallup</b>	<b>Dakota</b>
b. Top and Bottom of Pay Section (Perforations)	<b>5720-5756</b>	<b>6409-6485</b>
c. Type of production (Oil or Gas)	<b>Gas</b>	<b>Gas</b>
d. Method of Production (Flowing or Artificial Lift)	<b>Flowing</b>	<b>Flowing</b>

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. \*
- 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.

**W. R. Weaver - Waiver requested. To be sent to Santa Fe under separate cover**



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 \_\_\_\_\_.

CERTIFICATE: I, the undersigned, state that I am the **Div. Petroleum Engineer** of the **El Paso Natural Gas Co.** (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.

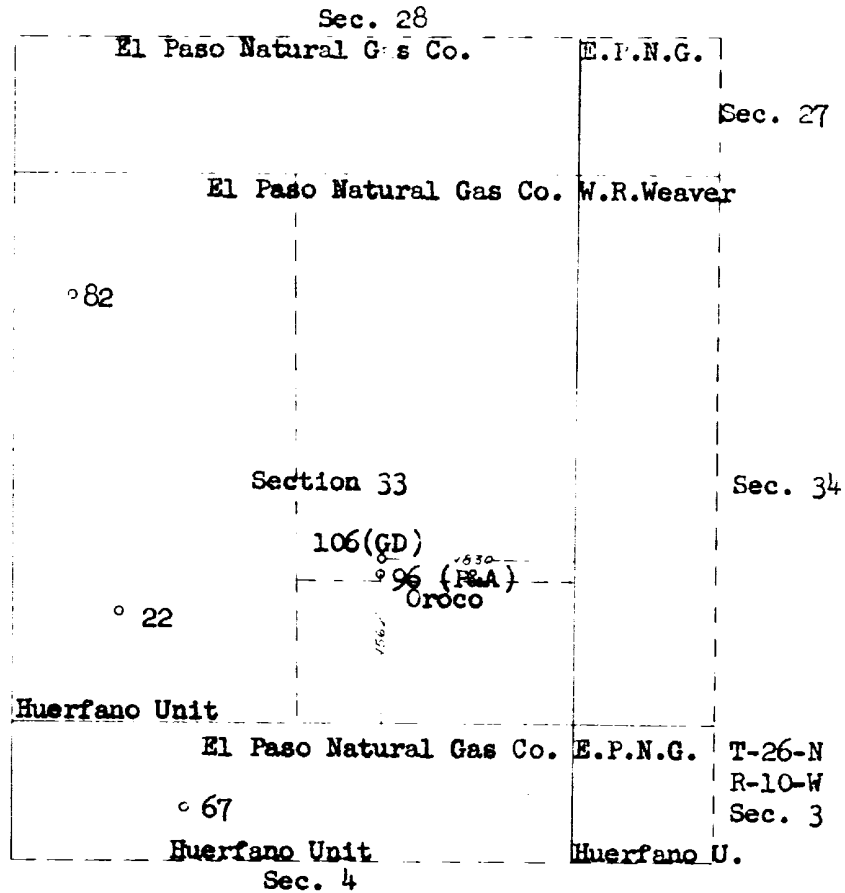
ORIGINAL SIGNED E. S. OBERLY

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.

PLAT SHOWING LOCATION OF DUALY COMPLETED  
El Paso Natural Gas Co. Huerfano Unit No. 106 (GD)  
and Offset Acreage

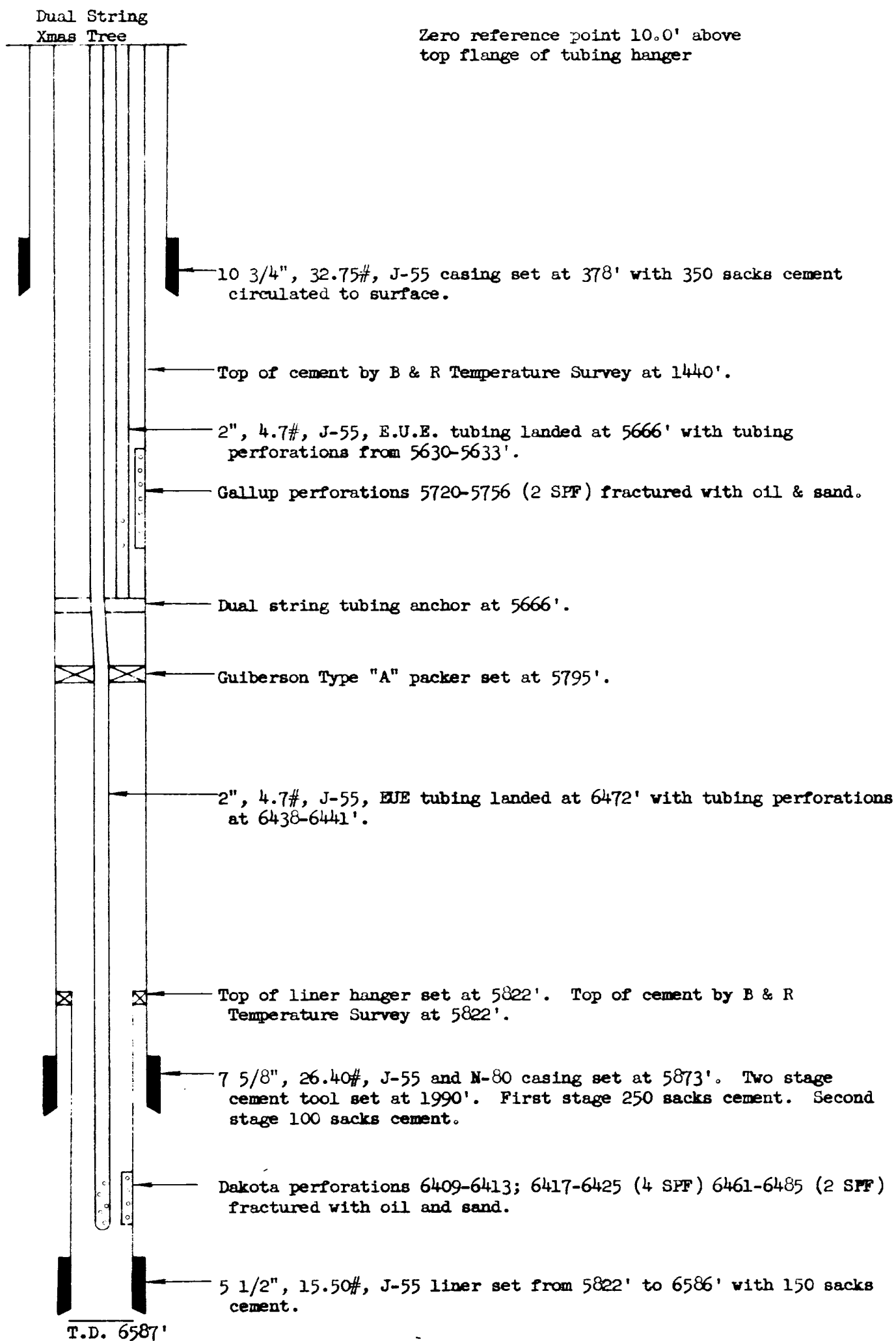
T-27-N  
R-10-W



EL PASO NATURAL GAS COMPANY  
EL PASO, TEXAS

DATE \_\_\_\_\_ No. \_\_\_\_\_  
BY \_\_\_\_\_

Schematic Diagram of Dually Completed  
El Paso Natural Gas Co. Huerfano Unit No. 106 (GD)



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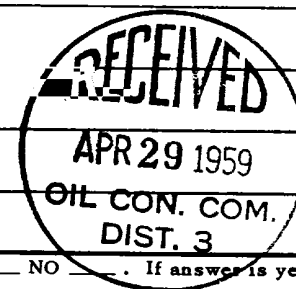
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# EL PASO NATURAL GAS COMPANY OPEN FLOW TEST DATA

DUAL COMPLETION

DATE **March 20, 1959**

Operator <b>El Paso Natural Gas</b>		Lease <b>Huerfano No. 106 (D)</b>	
Location <b>15628, 1830E; 33-27-10</b>		County <b>San Juan</b>	State <b>New Mexico</b>
Formation <b>Dakota</b>		Pool <b>Undesignated</b>	
Casing: Diameter <b>7-5/8</b>	Set At: Feet <b>5873</b>	Tubing: Diameter <b>2"</b>	Set At: Feet <b>6460</b>
Pay Zone: From <b>6409</b>	To <b>6485</b>	Total Depth: <b>6587 c/o 6520</b>	<b>Shut in 3/5/59</b>
Stimulation Method <b>Sand Oil Frac.</b>		Flow Through Casing	Flow Through Tubing <b>X</b>

Casing Size: Inches <b>.75</b>		Casing Depth: Feet <b>12.365</b>		5-1/2 liner 5822 - 6586	
Shut-In Pressure: Casing (G) <b>1123</b>	PSIG	Shut-In Pressure: Tubing (D) <b>1968</b>	PSIG	Shut-In Pressure: Tubing (D) <b>1968</b>	PSIG
Flowing Pressure: P <b>230</b>	PSIG	Working Pressure: P <sub>w</sub> <b>Calc. 501</b>	PSIG	Flowing Pressure: P <b>242</b>	PSIG
Temperature: T <b>75</b>		Sp. Gr. From Tables <b>1.029</b>		Gravity <b>.740</b>	

Initial SIPT (G) = 1122 psig

Final SIPC (G) = 1132 psig

Packer at 5795

CHOKE VOLUME  $Q = C \times P_1 \times F_1 \times F_2 \times F_{gv}$

$$Q = 12.365 \times 242 \times .9859 \times .9005 \times 1.029$$

2733

MCF/D

OPEN FLOW  $Aof = Q \left( \frac{P_1^2 - P_2^2}{P_1 - P_2} \right)^n$

$$Aof = \left( \frac{3920400}{3669399} \right)^n$$

$$1.0684^{.75} \times 2733 = 1.0508 \times 2733$$

$$Aof = 2872 \text{ MCF/D}$$

TESTED BY **R. R. Davis**

WITNESSED BY

*L. D. Galloway*  
L. D. Galloway by *H.H.*