

OIL CONSERVATION COMMISSION  
1000 Rio Brazos Rd.  
Aztec, New Mexico

11-23-59

DATE \_\_\_\_\_

OIL CONSERVATION COMMISSION  
BOX 871  
SANTA FE, NEW MEXICO

RE: Proposed NSP \_\_\_\_\_

Proposed NSL \_\_\_\_\_

Proposed NFO \_\_\_\_\_ ✓

Proposed DC \_\_\_\_\_

Gentlemen:

11-10-59

I have examined the application dated 6-25-27N-6N  
for the EPNG SJU 28-6 #85  
Operator Lease and Well No. S-T-R

and my recommendations are as follows:

Approve

Yours very truly,

*Emory C. Arnold*

OIL CONSERVATION COMMISSION

## NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

7-3-58

## APPLICATION FOR DUAL COMPLETION

Field Name <b>Blanco Mesa Verde &amp; South Blanco L. C.</b>		County <b>Rio Arriba</b>	Date <b>November 10, 1959</b>
Operator <b>El Paso Natural Gas Company</b>		Lease <b>San Juan 26-6 Unit</b>	Well No. <b>05 (IM)</b>
Location of Well <b>C</b>	Section <b>25</b>	Township <b>27N</b>	Range <b>06W</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 A NO
2. If answer is yes, identify one such instance: Order No. DC-405; Operator, Lease, and Well No.:

**El Paso Natural Gas Co. San Juan 26-6 Unit No. 05 (IM)**

3. The following facts are submitted:	Upper Zone	Lower Zone
a. Name of reservoir	<b>Pictured Cliffs</b>	<b>Mesa Verde</b>
b. Top and Bottom of Pay Section (Perforations)	<b>3066-3116</b>	<b>4760-4812 (Cliff House) 5272-5398 (Point Lookout)</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. 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. 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.

**El Paso Natural Gas Co. is San Juan 26-6 and San Juan 27-5 Units Operator.**

6. Were all operators listed in Item 5 above notified and furnished a copy of this application? YES 0161-3. If answer is yes, give date of such notification   .

CERTIFICATE: I, the undersigned, state that I am the Division Petroleum Engr. 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.

STATE OF NEW MEXICO     )  
                                  )  
COUNTY OF SAN JUAN     )

I, A. T. Fry, being first duly sworn upon my oath depose  
and say as follows:

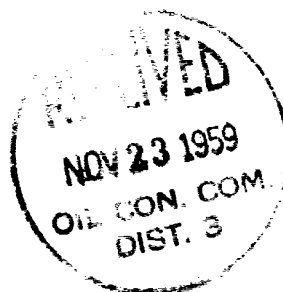
I am an employee of Guiberson Corporation, and that on  
September 20, 1959, I was called to the location of the El Paso Natural  
Gas Company San Juan 28-6 Unit No. 85 (PM) Well located in the SWNE/4  
of Section 25, Township 27 North, Range 6 West, N.M.P.M., for advisory  
service in connection with installation of a production packer. In my  
presence, a Guiberson Model "AG" Production Packer was set in this well  
at 4590 feet in accordance with the usual practices and customs of the  
industry.

A. T. Fry

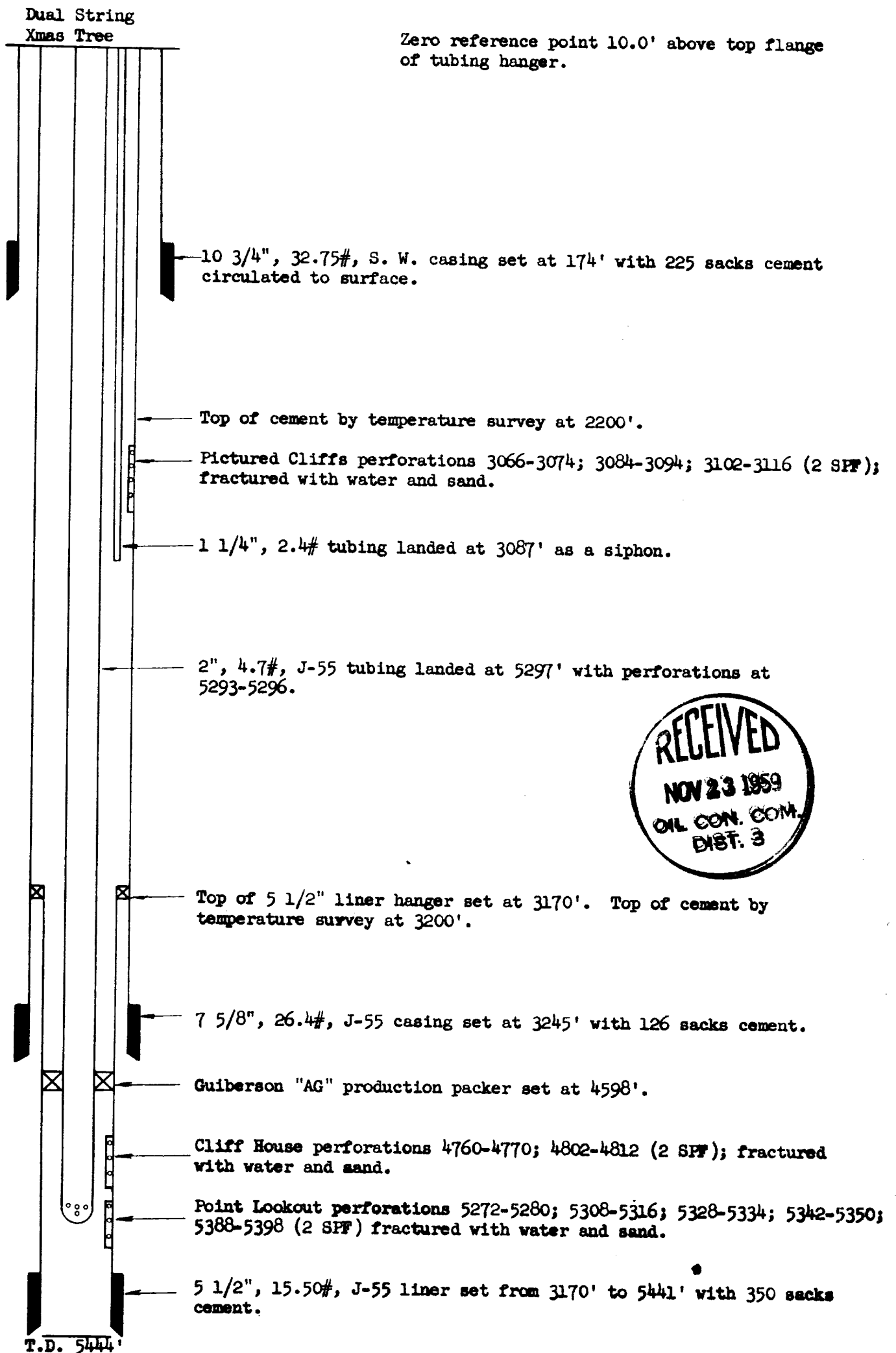
Subscribed and sworn to before me this 6th day of November,  
1959.

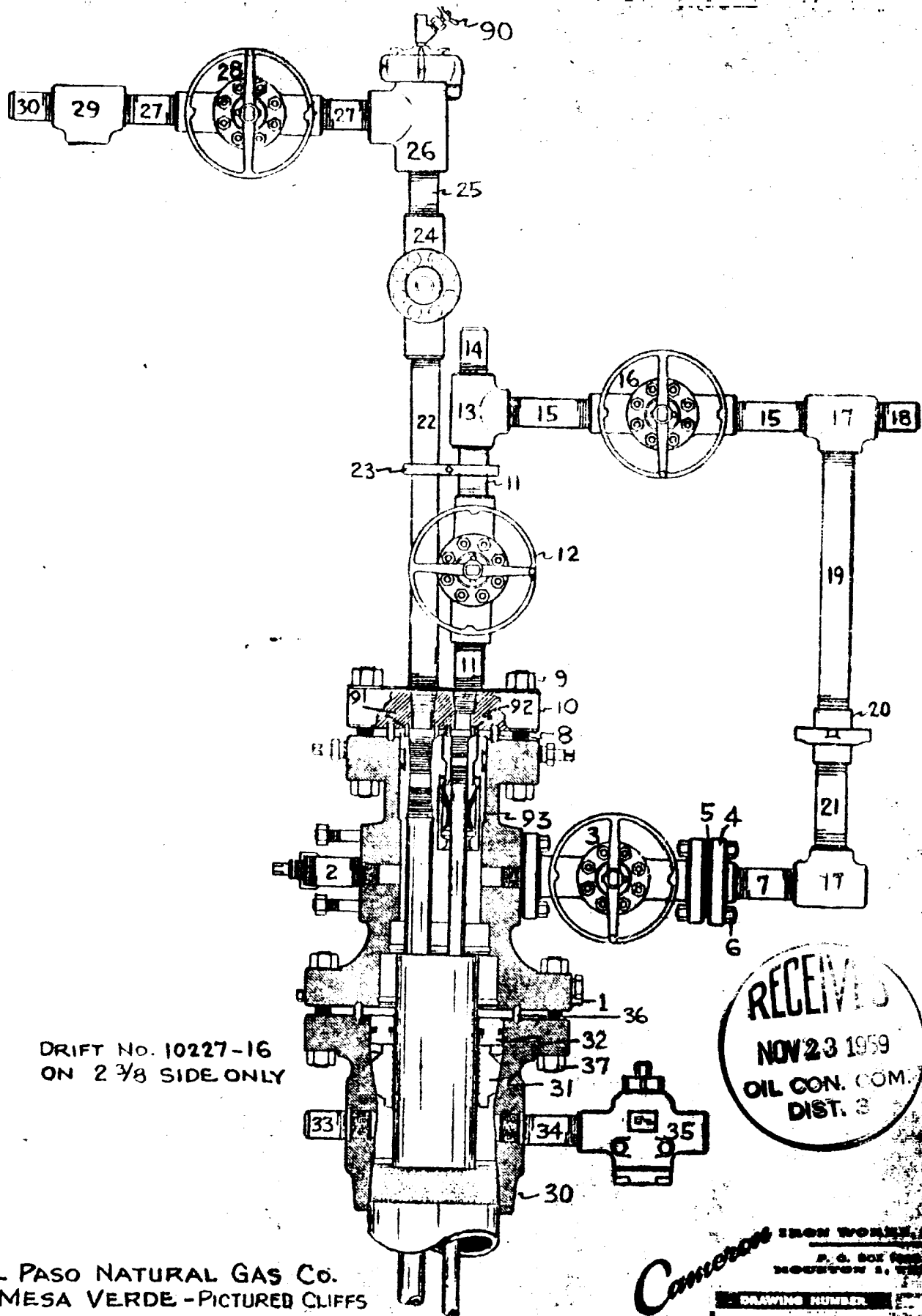
Raul M. Melendez  
Notary Public in and for San Juan County,  
New Mexico

My commission expires February 24, 1960.



**SCHEMATIC DIAGRAM OF DUAL COMPLETION**  
**El Paso Natural Gas Co. San Juan 28-6 Unit No. 85 (PM)**  
**NE/4 Section 25, T-27-N, R-6-W**





DRIFT NO. 10227-16  
 ON 2 3/8 SIDE ONLY

EL PASO NATURAL GAS CO.  
 MESA VERDE - PICTURED CLIFFS

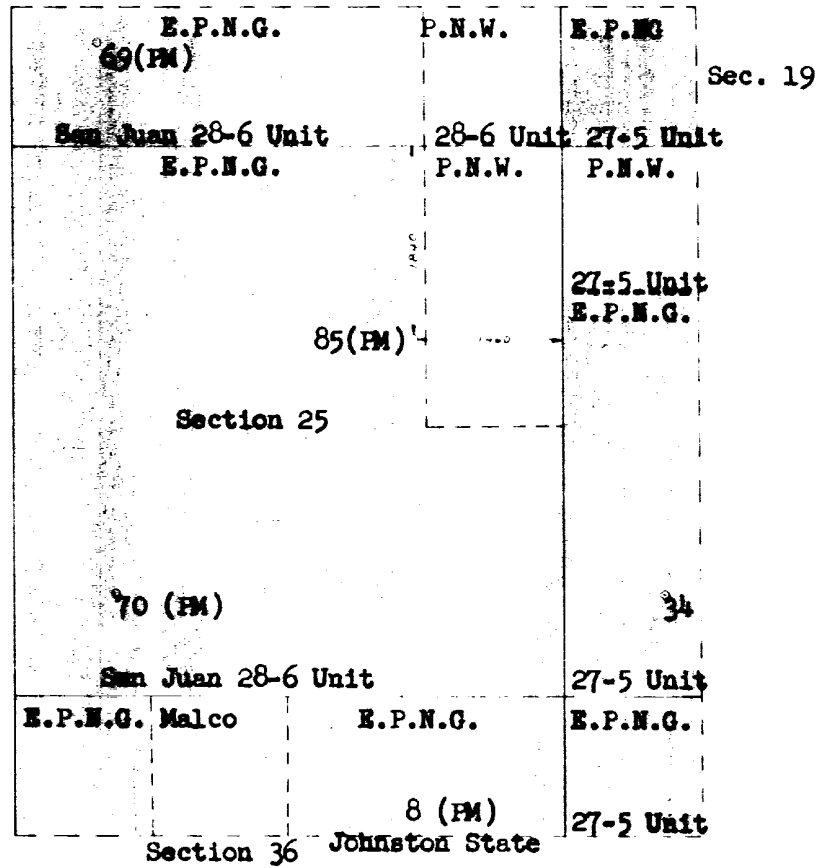
**Cameron IRON WORKS**  
 P. O. BOX 100  
 HOUSTON 1, TEXAS

DRAWN BY E. H. DATE 3-17-59 WORKING PRESSURE 2,000 # DRIFT NO. 916015

**PLAT SHOWING LOCATION OF DUALY COMPLETED  
El Paso Natural Gas Co. San Juan 28-6 Unit No. 85 (FM)  
and Offset Acreage**

T-27-N  
R-6-W

T-27-N  
R-5-W



**EL PASO NATURAL GAS COMPANY**  
EL PASO, TEXAS

SCALE \_\_\_\_\_ DATE \_\_\_\_\_ No. \_\_\_\_\_  
DRAWN BY \_\_\_\_\_ CHECKED BY \_\_\_\_\_

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE **October 22, 1959**

Operator <b>El Paso Natural Gas Company</b>		Lease <b>San Juan 28-6 Unit No. 85 (P)</b>	
Location <b>1840N, 1460E; 25-27-6</b>		County <b>Rio Arriba</b>	State <b>New Mexico</b>
Formation <b>Pictured Cliffs</b>		Rock <b>South Blanco</b>	
Casing Diameter <b>7-5/8</b>	Set At: Feet <b>3245</b>	Tubing Diameter <b>1-1/4</b>	Set At: Feet <b>3077</b>
Pay Zone From <b>3066</b>	To <b>3116</b>	Total Depth <b>5444 c/o 5416</b>	Shut In: <b>9/20/59</b>
Stimulation Method <b>Sand Water Frac.</b>		Flow Test Type <b>X</b>	

Choke Size, inches <b>.75</b>	Choke Constant <b>12.365</b>	Shut-In Pressure, PSIG <b>1068</b>	Shut-In Pressure, T. (psig) <b>1068</b>
Flowing Pressure, PSIG <b>146</b>	Flowing Pressure, T. (psig) <b>158</b>	Well Pressure, PSIG <b>151</b>	Well Pressure, T. (psig) <b>163</b>
Temperature, T <b>59</b>	Gravity <b>.85</b>	Flowing Pressure, PSIG <b>1.015</b>	Flowing Pressure, T. (psig) <b>.67</b>

Initial SIPT (MV) = 1083 psig  
Final SIPT (MV) = 1083 psig

Packer at 4598

CHOKE VOLUME  $C = C_1 \times R_1 \times F_1 \times F_2 \times F_3$

$$C = 12.365 \times 158 \times 1.0010 \times .9463 \times 1.015 = 1878 \text{ MCF/D}$$

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

$$\left( \frac{1166400}{1139831} \right)^n$$

$$1.0233^{.85} \times 1878 = 1.0198 \times 1878$$

$$Q = 1915 \text{ MCF/D}$$

TESTED BY **B. V. Roberts**

WITNESSED BY

Checked By **W. D. Dutton**

*Lewis D. Galloway*  
**L. D. Galloway**

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE October 14, 1959

Operator <b>El Paso Natural Gas Company</b>		Lease <b>San Juan 28-6 Unit No. 85 (M)</b>	
Location <b>1840N, 1460E; 25-27-6</b>		County <b>Rio Arriba</b>	State <b>New Mexico</b>
Formation <b>Mesa Verde</b>		Blanco	
Casing Diameter <b>5-1/2</b>	Set At: Feet <b>5441</b>	Tubing Diameter <b>2</b>	Set At: Feet <b>5287</b>
Flow Zone <b>4762</b>	<b>5398</b>	<b>5444 c/o 5416</b>	<b>Shut In: 9/20/59</b>
Stimulation Method <b>Sand Water Frac.</b>		Flow Through Tubing <b>X</b>	

Choke Size (inches) <b>.75</b>	Choke Constant <b>12.365</b>	<b>5-1/2 liner 3170 - 5441</b>
Shut-in Pressure (PSIG) <b>1054 (PC)</b>	PSIA <b>1056</b>	PSIG <b>1081 (MV)</b>
Flowing Pressure (PSIG) <b>310</b>	PSIA <b>322</b>	PSIG <b>Calc. 638</b>
Temperature (°F) <b>62</b>	<b>.75</b>	Flow Through Tubing <b>1.044</b>
		Grav. I. <b>.74</b>

Initial SIPT (PC) = 1056 psig  
Final SIPT (PC) = 1059 psig

Packer at 4598

CHOKE VOLUME  $Q = C \times P_1 \times F_1 \times F_2 \times F_3$

$$12.365 \times 322 \times .9981 \times .9005 \times 1.044$$

3736

MCF/D

OPEN FLOW  $A = Q$

$$\left( \frac{P_1^2 - P_2^2}{L} \right)^n$$

1194649  
787605

$$1.5168^{.75} \times 3736 = 1.3667 \times 3736$$

5106

MCF/D

Tom Grant

*Lewis D. Galloway*  
L. D. Galloway