

## NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

7-3-58

## APPLICATION FOR DUAL COMPLETION

Field Name <u>Blanco M. V. &amp; Co. Blanco P.C. Ext.</u>		County <u>Rio Arriba</u>	Date <u>October 5, 1959</u>
Operator <u>El Paso Natural Gas Company</u>		Lease <u>San Juan 2-7 Unit</u>	Well No. <u>92 (RM)</u>
Location of Well	Unit <u>II</u>	Section <u>27</u>	Township <u>20N</u>
			Range <u>7N</u>

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 X NO \_\_\_\_\_

2. If answer is yes, identify one such instance: Order No. 1C-617 ; Operator, Lease, and Well No.:

San Juan 2-7 Unit No. 1 (RM)

3. The following facts are submitted:	Upper Zone	Lower Zone
a. Name of reservoir	<u>Pictured Cliffs</u>	<u>Mesa Verde</u>
b. Top and Bottom of Pay Section (Perforations)	<u>2026 - 2056</u>	<u>4442 - 4454 (Upper Cliff House) 4546 - 4620 (Lower Cliff House) 5004 - 5155 (Point Lockout)</u>
c. Type of production (Oil or Gas)	<u>Gas</u>	<u>Gas</u>
d. Method of Production (Flowing or Artificial Lift)	<u>Flowing</u>	<u>Flowing</u>

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

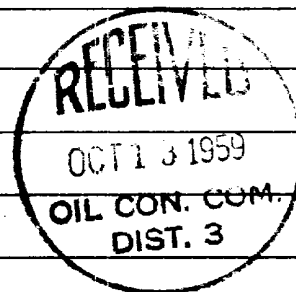
Yes a. Diagrammatic Sketch of the Dual Completion, showing all casing strings, including size and setting, top of cement, perforated intervals, tubing strings, including diameters and setting depth, location and type of packers and side door chokes, and such other information as may be pertinent.

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.



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 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 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.



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 July 30, 1959, I was called to the location of the El Paso Natural Gas Company San Juan 28-7 Unit No. 52 (PM) Well located in the SENE of Section 27, Township 28 North, Range 7 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 2868 feet in accordance with the usual practices and customs of the industry.

A. T. Fry

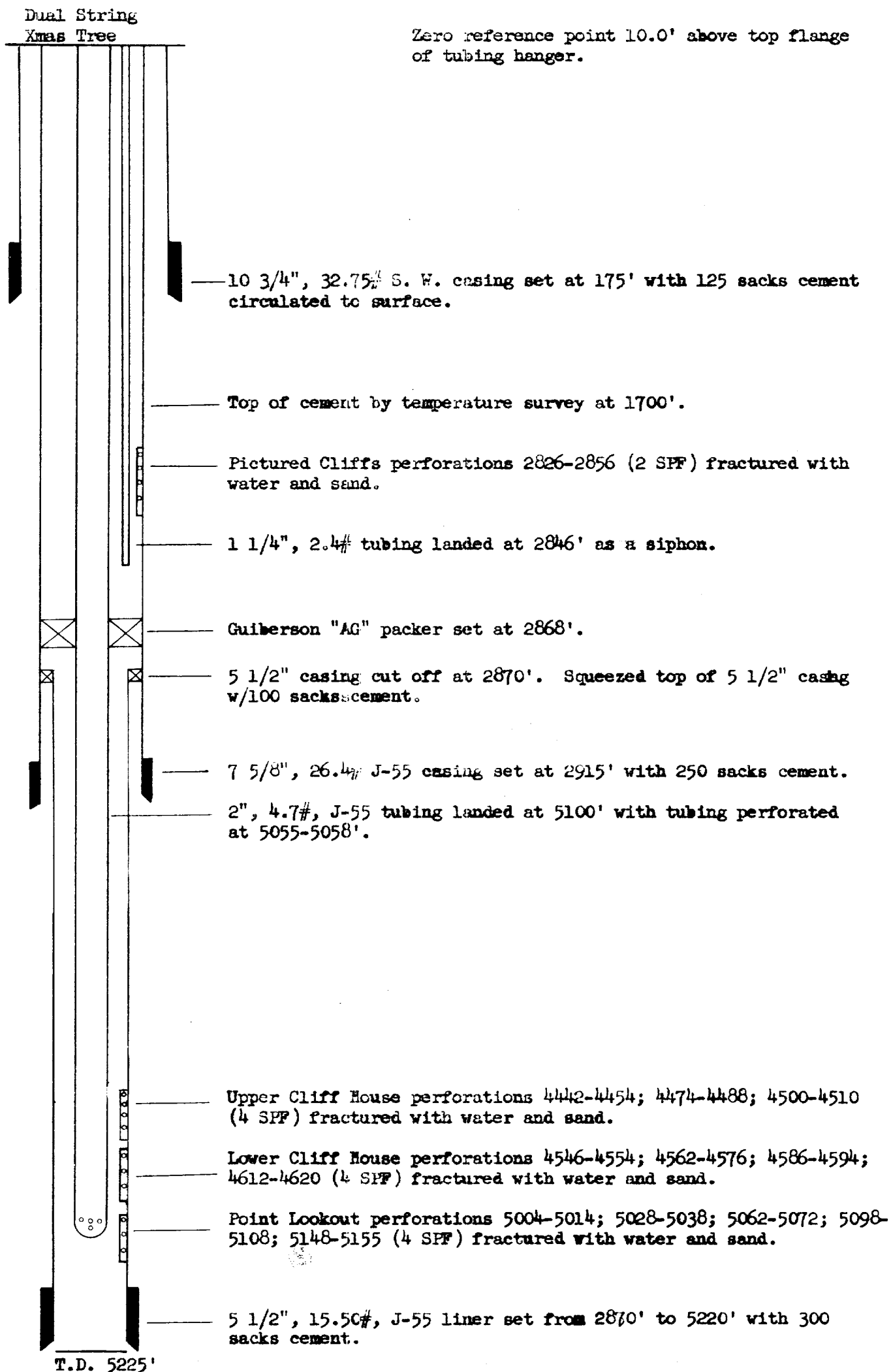
Subscribed and sworn to before me, a Notary Public, this 6th day of October, 1959.

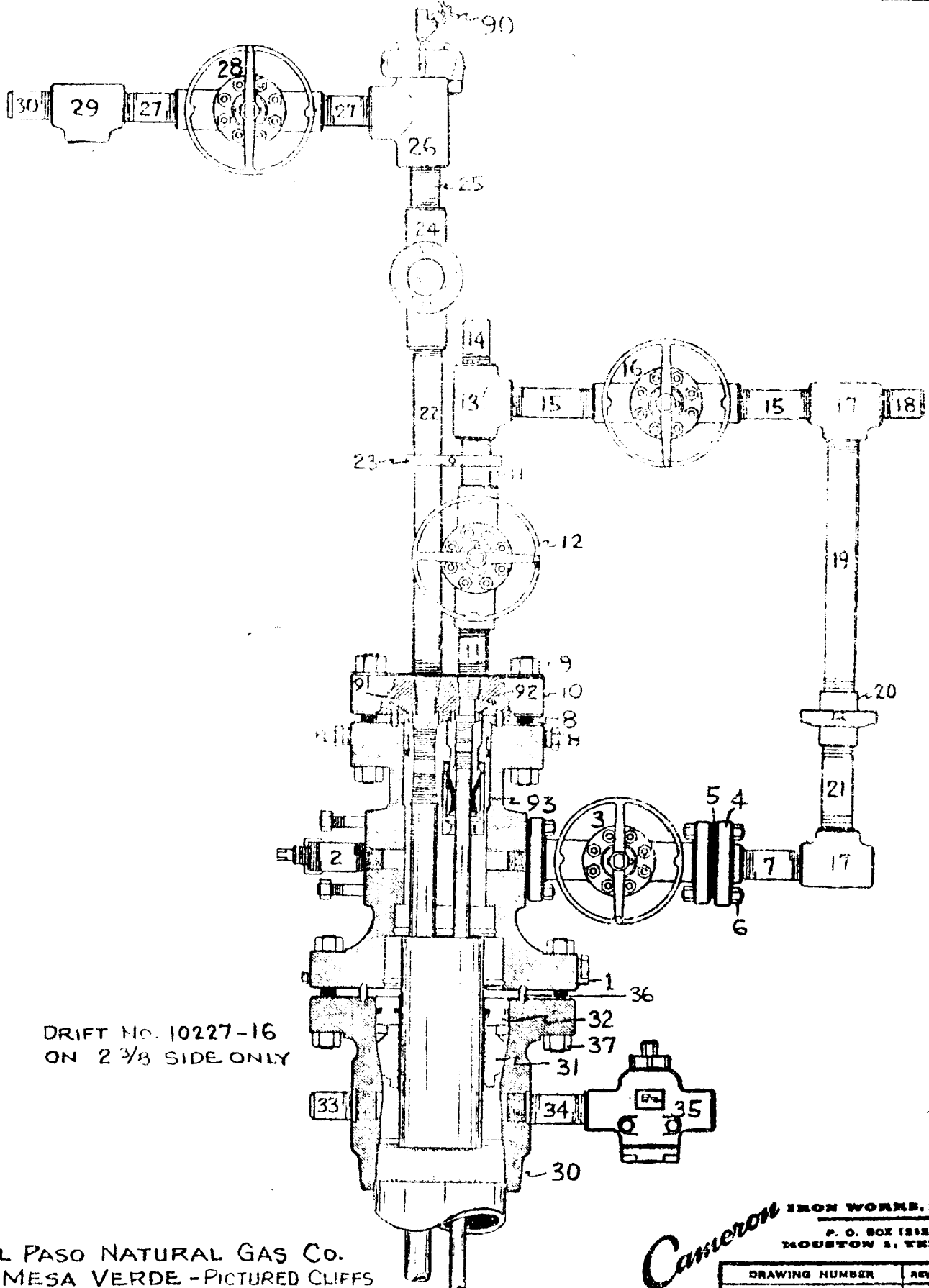
Paul M. [Signature]  
Notary Public in and for San Juan County,  
New Mexico

My commission expires February 24, 1960.



**SCHEMATIC DIAGRAM OF DUALY COMPLETED**  
**El Paso Natural Gas Co. San Juan 28-7 Unit No. 52 (PM)**  
**NE/4 Section 27, T-28-N, R-7-W**

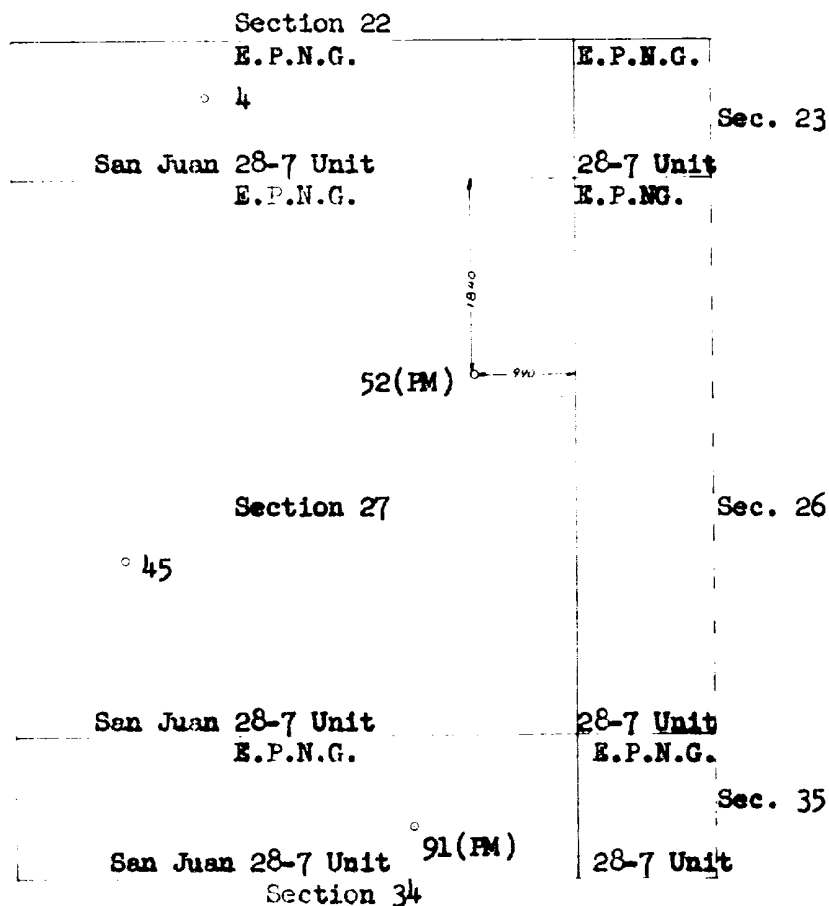




DRAWN BY E. H. DATE 3-17-59 WORKING PRESSURE 2,000 # DRIFT NO. \_\_\_\_\_

PLAT SHOWING LOCATION OF DUALY COMPLETED  
El Paso Natural Gas Co. San Juan 28-7 Unit No. 52 (PM)  
and Offset Acreage

T-28-N  
R-7-W



EL PASO NATURAL GAS COMPANY  
EL PASO, TEXAS

SCALE

DATE

No.

DRAWN BY

CHECKED BY

# OPEN FLOW TEST DATA

DUAL COMPLETION

DATE

September 16, 1959

Operator <b>El Paso Natural Gas</b>	Well Name <b>San Juan 28-7 No. 52 (P)</b>	OWWO
Location <b>1840N, 990E; Sec. 27-28-7</b>	Rio Arriba	New Mexico
Fracture <b>Pictured Cliffs</b>	South Blanco	
Gas Flow Rate <b>5-1/2</b>	Set At Feet <b>5220</b>	Set At Feet <b>2836</b>
Pressure <b>2826</b>	Pressure <b>2856</b>	Shut In: <b>7/30/59</b>
Fluid Type <b>S nd Water Frac.</b>	Test Type <b>X</b>	

Pressure	.75	12.365			
Pressure	1025	1037	48	1027	1039
Pressure	109	121		115	127
Temperature	66	.85		1.012	.700

Initial SIPT (MV) = 904 psig

Packer at 2868

Final SIPT (MV) = 902 psig

CHOKE - 1.012 x 1.012 x 1.012 x 1.012 x 1.012

$$12.365 \times 121 \times .9943 \times .9258 \times 1.012$$

1394

MCF/D

$$\left( \frac{1079521}{1063392} \right)^n$$

$$\left( \frac{1079521}{1063392} \right)^n$$

$$1.0151^{.85} \times 1394 = 1.0128 \times 1394$$

1412

MCF/D

Frank Clark

Checked By W. D. Dawson

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

EST. 1956

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE September 4, 1959

Operator <b>El Paso Natural Gas Company</b>		Lease <b>San Juan 28-7 No. 52 (M) OWWO</b>	
Location <b>1840N, 990E; Sec. 27-28-7</b>		County <b>Rio Arriba</b>	State <b>New Mexico</b>
Formation <b>Mesa Verde</b>		Pool <b>Blanco</b>	
Casing Diameter <b>5-1/2</b>	Set At Feet <b>5220</b>	Tubing Diameter <b>2"</b>	Set At Feet <b>5114</b>
Pay Zone, Feet <b>4442</b>	Top <b>5155</b>	Total Depth <b>c/o 5205</b>	Shut In: <b>7/30/59</b>
Stimulation Method <b>Sand Water Frac.</b>		Flow Through Casing	Flow Through Tubing <b>X</b>

Choke Size, Inches <b>.75</b>	Choke Constant, C <b>12.365</b>	Shut-In Pressure, Flowing <b>902 (MV)</b>	PSIG	12	PSIA	<b>914</b>
Shut-In Pressure, Flowing <b>1130 (PC)</b>	PSIG	12	PSIA	<b>1142</b>	Days Shut-In <b>36</b>	
Flowing Pressure <b>318</b>	PSIG	12	PSIA	<b>330</b>	Working Pressure, PSIA <b>Calc. 643</b>	
Temperature, F <b>68</b>				<b>.75</b>	Flow From Test <b>1.038</b>	Gravity <b>.715</b>

Initial SIPT (PC) = 1131 psig

Packer at 2868

Final SIPT (PC) = 1136 psig

CHOKE VOLUME  $Q = C \times P_1 \times F_1 \times F_g \times F_v$ 

$$Q = 12.365 \times 330 \times .9924 \times .9161 \times 1.038 = 3851 \text{ MCF/D}$$

$$\text{OPEN FLOW } A_{of} = Q \left( \frac{P_1^2 - P_2^2}{P_1^2 - P_w^2} \right)^n$$

$$A_{of} = \left( \frac{835396}{421947} \right)^n \quad 1.9798^{.75} \times 3851 = 1.6680 \times 3851$$

$$A_{of} = 6423 \text{ MCF/D}$$

Tested by **S. V. Roberts**Witnessed by **Tom Smith (NMOCC)**

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



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

DATE 10-21-59

OIL CONSERVATION COMMISSION  
BOX 871  
SANTA FE, NEW MEXICO

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

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

Proposed NFO \_\_\_\_\_

Proposed DC ✓

Gentlemen:

I have examined the application dated 10-5-59  
for the EPNG San Juan 28-7 # 52 (PM)  
Operator \_\_\_\_\_ Lease and Well No. \_\_\_\_\_ S-T-R \_\_\_\_\_  
H-27-28N-7W

and my recommendations are as follows:

Approve  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Yours very truly,

OIL CONSERVATION COMMISSION

A. R. Kendrick