

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

OIL CONSERVATION COMMISSION  
BOX 871  
SANTA FE, NEW MEXICO

DATE 11-18-57

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

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

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

Proposed DC ✓

Gentlemen:

I have examined the application dated 11-3-57  
for the EPNG SSU 28.7 #101-X M-10-27N-7W  
Operator Lease and Well No. S-T-R

and my recommendations are as follows:

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

Yours very truly,

Henry C. Smith  
OIL CONSERVATION COMMISSION

## 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 L. C.</u>			County <u>Rio Arriba</u>		Date <u>November 3, 1959</u>
Operator <u>El Paso Natural Gas Company</u>			Lease <u>San Juan 28-7 Unit</u>		Well No. <u>106- (1M)</u>
Location of Well	Unit <u>M</u>	Section <u>10</u>	Township <u>27N</u>		Range <u>7E</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. DC-633 ; Operator, Lease, and Well No.:  
El Paso Natural Gas Company  
San Juan 28-7 Unit No. 10 (1M)

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>200-3254</u>	<u>4965-5976 (CLIFF HOUSE) 5466-5912 (Joint Lookout)</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.

El Paso Natural Gas Company is San Juan 28-7 and Rincon Unit operator.

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 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 13, 1959, I was called to the location of the El Paso Natural  
Gas Company San Juan 28-7 Unit No. 106-X (PM) Well located in the SWSW/4  
of Section 10, Township 27 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 4650  
feet in accordance with the usual practices and customs of the industry.

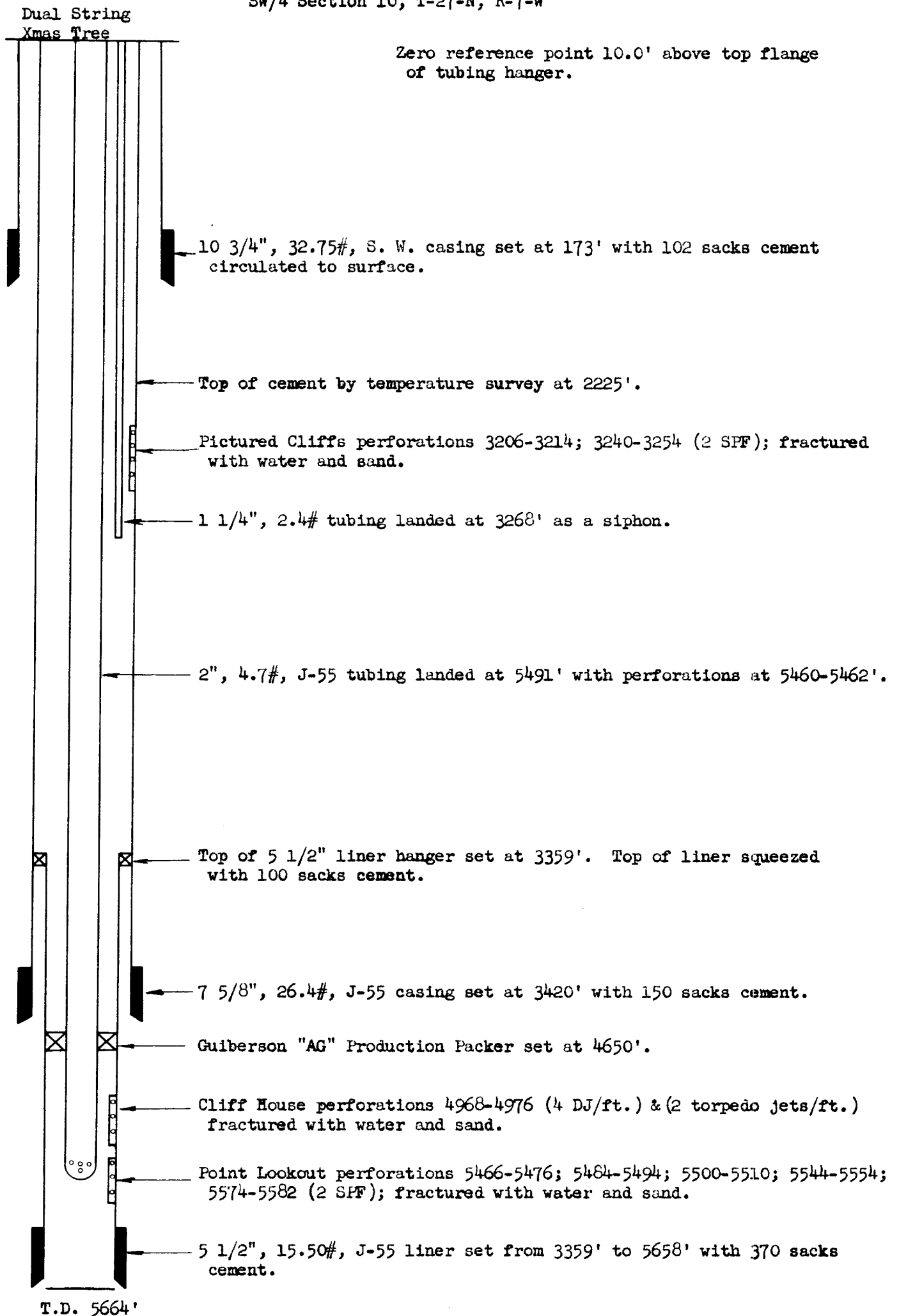
A. T. Fry

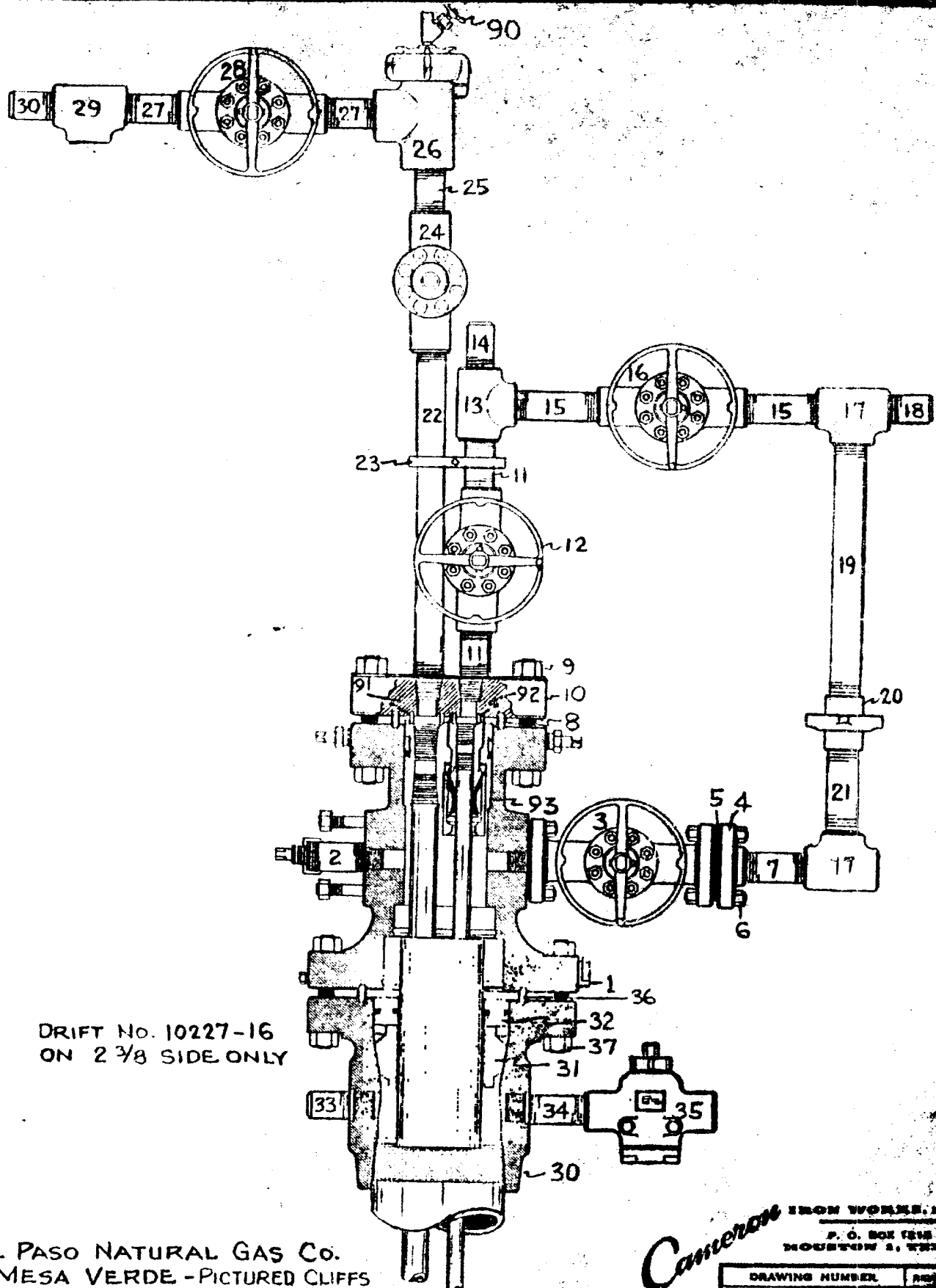
Subscribed and sworn to before me this 4th day of November,  
1959.

Paul H. McLaughlin  
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 28-7 Unit No. 106-X (FM)  
SW/4 Section 10, T-27-N, R-7-W





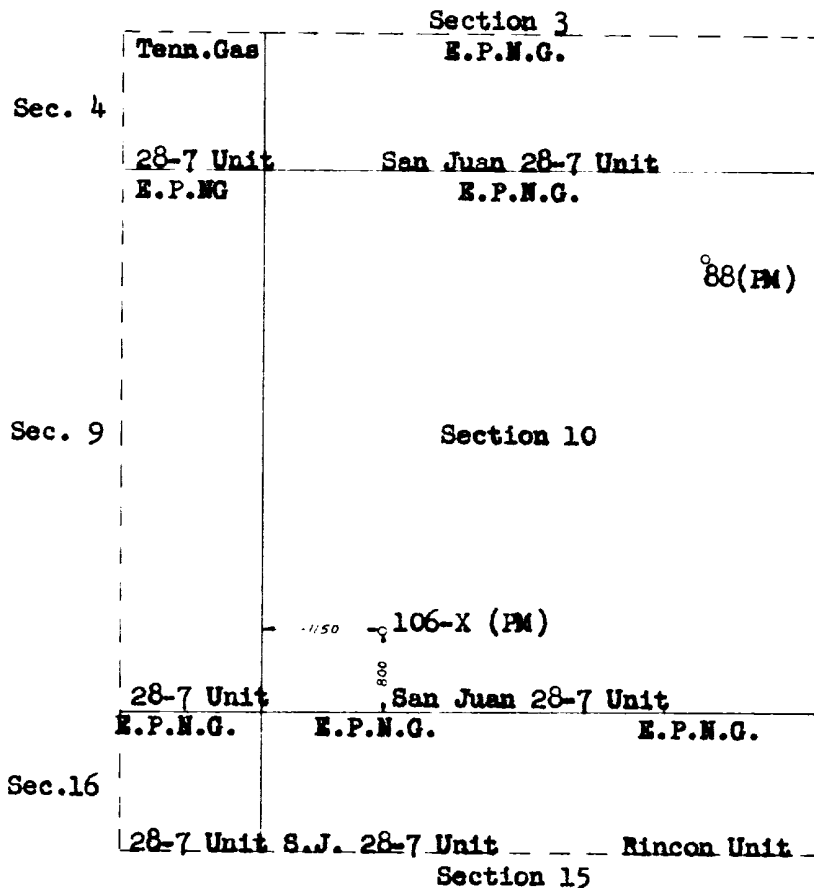
*Cameron* IRON WORKS, INC.  
 P. O. BOX 1518  
 HOUSTON 1, TEXAS

DRAWING NUMBER		SECTION	
916015		A	

DRAWN BY <u>E. N.</u>	DATE <u>3-17-59</u>	WORKING PRESSURE <u>2,000</u> #	DRIFT NO. _____
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PLAT SHOWING LOCATION OF DUALY COMPLETED  
El Paso Natural Gas Co. San Juan 28-7 Unit No. 106-X (PM)  
and Offset Acreage

T-27-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

October 20, 1959

El Paso Natural Gas

800S, 1150W; 10-27-7

Pictured Cliffs

7-5/8

3408

3206

3254

Sand Water Frac.

San Juan 28-7 No. 106-X (P)

Rio Arriba

New Mexico

South Blanco

1-1/4

3258

5664 c/o 5616

Shut In: 9/13/59

X

.75

12.365

991 (PC)

1003

37

991 (PC)

1003

107

119

111

123

58

.85

1.011

.675

Initial SIPT (MV) = 1028 psig

Final SIPT (MV) = 1031 psig

Packer at 4650

$12.365 \times 119 \times 1.0019 \times .9427 \times 1.011$

1405

MCF/D

1006009  
990880

$1.0152^{.85} \times 1405 = 1.0129 \times 1405$

1423

W. D. Dawson

Lewis D. Galloway  
L. D. Galloway

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE October 9, 1959

Operator <b>El Paso Natural Gas Company</b>		Lease <b>San Juan 28-7 No. 106-X (M)</b>	
Location <b>8008, 1150W; 10-27-7</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>5658</b>	Tubing Diameter <b>2"</b>	Set At Feet <b>5481</b>
Pay Zone Feet <b>4968</b>	<b>5554</b>	Total Depth <b>5664 c/o 5616</b>	Shut In: <b>9/13/59</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>	<b>5-1/2 liner 3359 - 5658</b>
Shut-in Pressure, Casing <b>981 (PC)</b>	PSIG 12 PSIA <b>993</b>	Days Shut-in <b>26</b>
Flowing Pressure, Casing <b>196</b>	PSIG 12 PSIA <b>208</b>	Shut-in Pressure, Tubing <b>1037 (MV)</b>
Temperature, F <b>60</b>	<b>.75</b>	PSIG 12 PSIA <b>1049</b>
		Working Pressure, P <sub>w</sub> <b>Calc. 414</b>
		Spv (From Tables) <b>1.020</b>
		Gravity <b>.661</b>

Initial SIPT (PC) = 981 psig

Packer at 4650

Final SIPC (PC) = 986 psig

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

$$Q = 12.365 \times 208 \times 1.0000 \times .9535 \times 1.020$$

2501

MCF/D

$$Q_{OPEN FLOW} = A_{OF} \left( \frac{P_1^2 - P_w^2}{P_1^2} \right)^n$$

$$A_{OF} = \left( \frac{1100401}{929005} \right)^n$$

$$1.1844^{.75} \times 2501 = 1.1353 \times 2501$$

$$A_{OF} = 2839 \text{ MCF/D}$$

W. D. Dawson

*Lewis D. Galloway*  
L. D. Galloway