

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

OIL CONSERVATION COMMISSION
BOX 871
SANTA FE, NEW MEXICO

DATE 11-18-59

RE: Proposed NSP _____
Proposed NSL _____
Proposed NFO _____
Proposed DC ✓

Gentlemen:

I have examined the application dated 11-3-59
for the EPNC SSV 287 102 N-2-27N-7W
Operator Lease and Well No. S-T-R

and my recommendations are as follows:

See above

Yours very truly,

Emory C. Greenleaf
OIL CONSERVATION COMMISSION

NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

7-3-58

APPLICATION FOR DUAL COMPLETION

Field Name El Paso N.V. & South El Paso P. Co. Nat.		County El Arriba	Date November 3, 1959
Operator El Paso Natural Gas Company		Lease San Juan 28-7 Unit	Well No. 102 (FM)
Location of Well N	Unit 2	Section 27E	Range 7N

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. **DC-633** ; Operator, Lease, and Well No.:

El Paso Natural Gas Co. San Juan 28-7 Unit No. 88 (FM)

3. The following facts are submitted:	Upper Zone	Lower Zone
a. Name of reservoir	Pictured Cliffs	Mesa Verde
b. Top and Bottom of Pay Section (Perforations)	3170 - 3208	4846-4924 (Cliff House) 5394-5518 (Point Lookout)
c. Type of production (Oil or Gas)	Gas	Gas
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.*
- 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 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.

OR G'NAL 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 30, 1959, I was called to the location of the El Paso Natural
Gas Company San Juan 28-7 Unit No. 102 (PM) Well located in the SESW/4
of Section 2, 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 4756 feet in accordance with the usual practices and customs of
the industry.

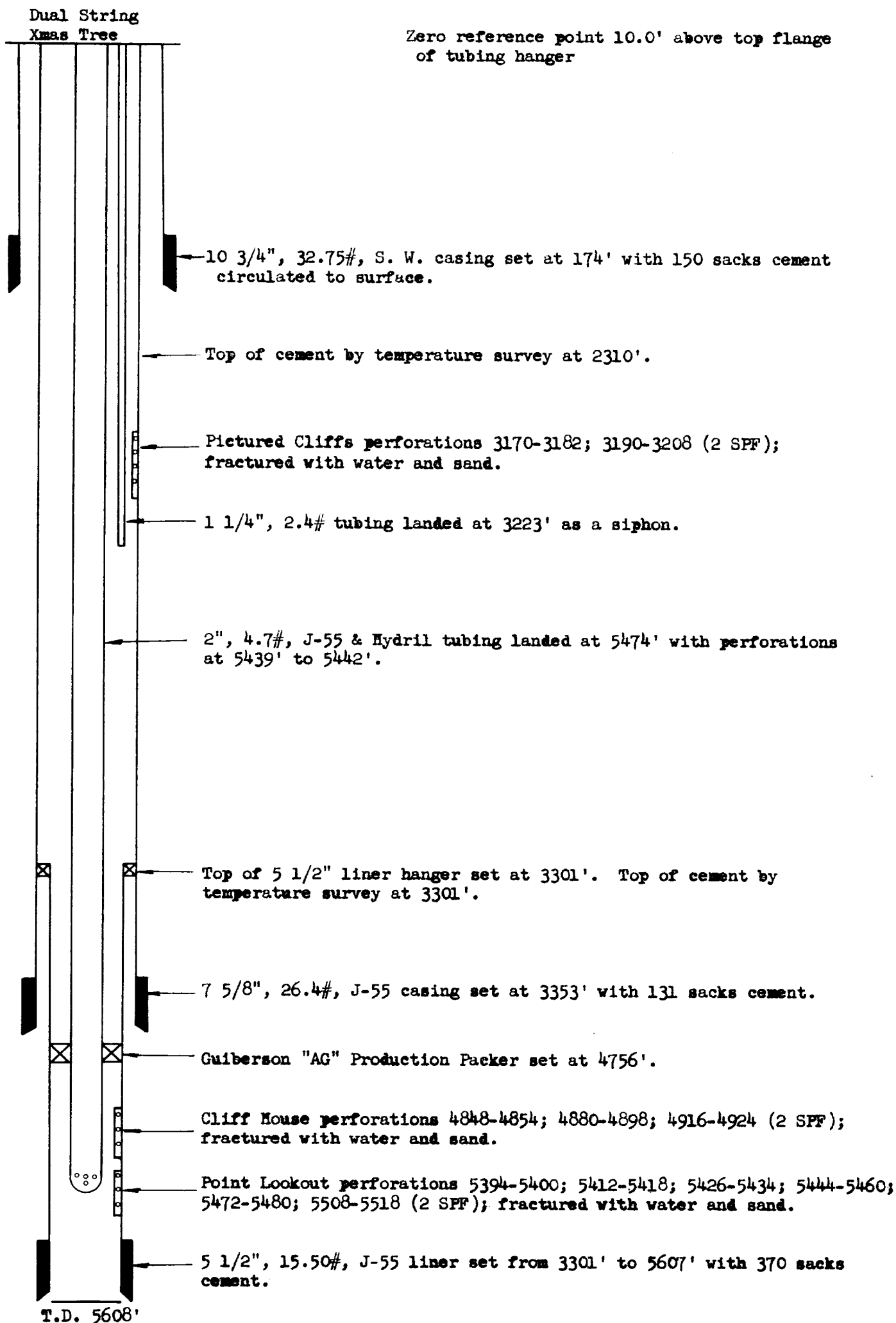
A. T. Fry

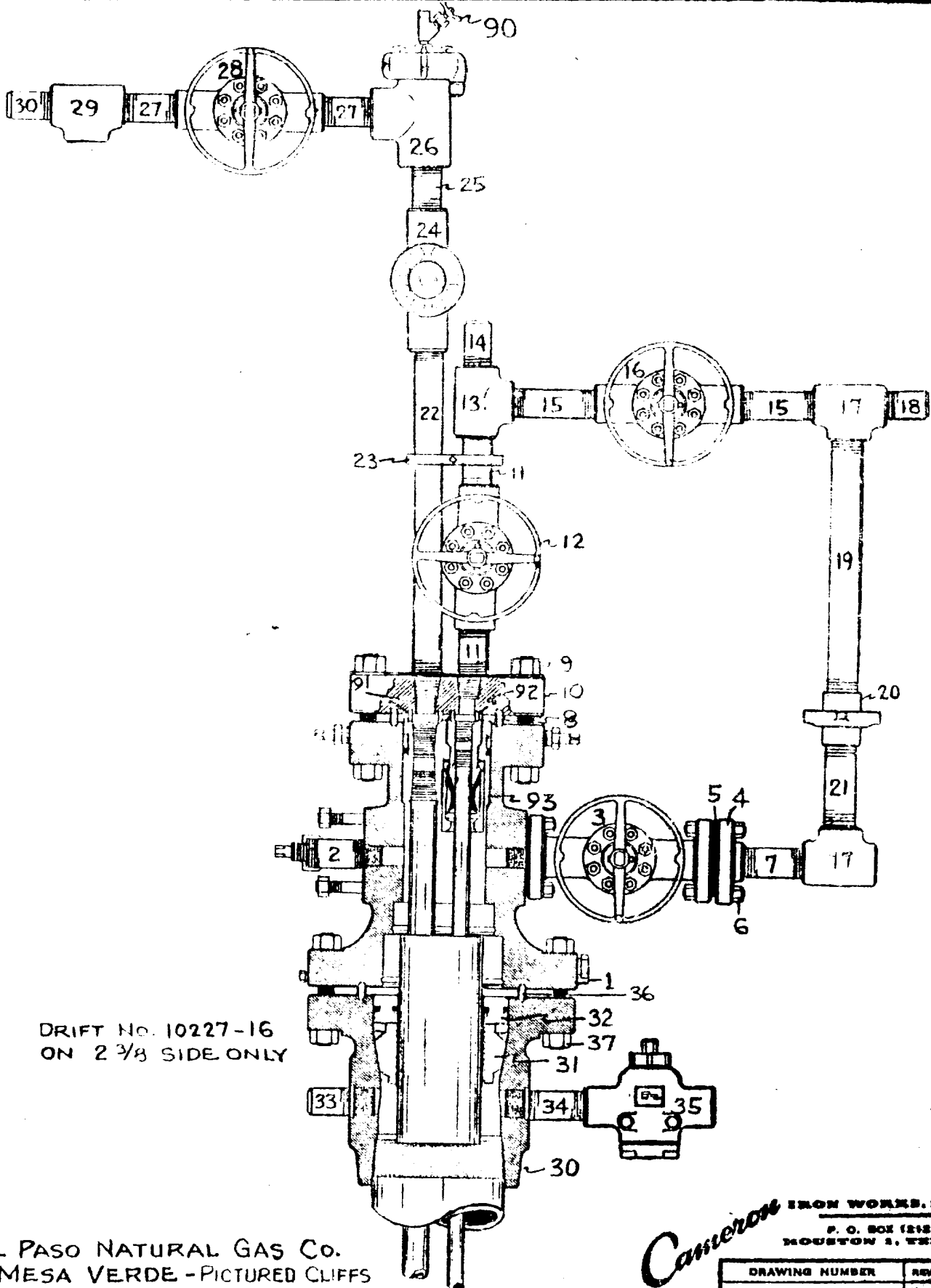
Subscribed and sworn to before me this 4th day of November,
1959.

Paul MacIsaac
Notary Public in and for San Juan County,
New Mexico

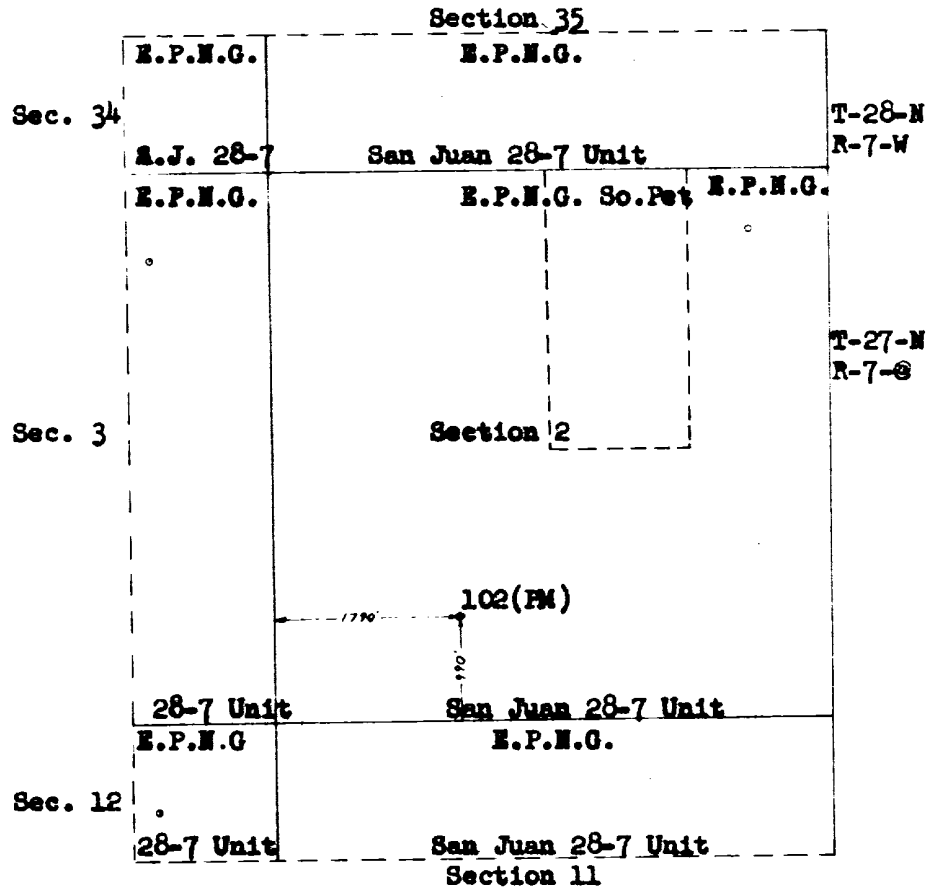
My commission expires February 24, 1960.

SCHEMATIC DIAGRAM OF DUAL COMPLETION
 El Paso Natural Gas Co. San Juan 28-7 Unit No. 102 (PM)
 SW/4 Section 2, T-27-N, R-7-W





**PLAT SHOWING LOCATION OF DUALY COMPLETED
El Paso Natural Gas Co. San Juan 28-7 Unit No. 102 (FM)
and Offset Acreage**



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

October 20, 1959

El Paso Natural Gas Company		San Juan 28-7 Unit No. 102 (P)	
9908, 1790W; 2-27-7		Rio Arriba New Mexico	
Pictured Cliffs		South Blanco	
7-5/8	3353	1-1/4	3212
3170	3208	5605 c/o 5570	Shut In: 9/29/59
Sand Water Frac.		X	

.75	12.365	5-1/2 liner 3301-5607
976 (PC) 988	21	976 (PC) 988
171	183	163 175
60	.85	1.019 .675

Initial SIPT (MV) = 1036 psig
Final SIPT (MV) = 1039 psig

Packer at 4756

$$12.365 \times 183 \times 1.000 \times .9427 \times 1.019$$

2174

976144
945519

$$1.0323^{.85} \times 2174 = 1.0274 \times 2174$$

2234

S. V. Roberts



Lewis D. Galloway
L. D. Galloway

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE October 13, 1959

Operator El Paso Natural Gas		Lease San Juan 28-7 Unit No. 102 (M)	
Location 9908, 1790W; 2-27-7		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 5-1/2	Set At: Feet 5607	Tubing: Diameter 2"	Set At: Feet 5463
Pay Zone: From 4848	To 5480	Total Depth: 5605 c/o 5570	Start In: 9/29/59
Stimulation Method Sand Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .75		Choke Constant: C 12.365		5-1/2 liner 3301-5607	
Shut-In Pressure, Casing, PSIG 940 (PC)	- 12 = PSIA 952	Days Shut-In 14	Shut-In Pressure, Tubing, PSIG 1025 (MV)	- 12 = PSIA 1037	
Flowing Pressure: P, PSIG 310 (MV)	- 12 = PSIA 322		Working Pressure: P _w , PSIG Calc.	- 12 = PSIA 643	
Temperature: T, °F 65	n = .75		F _{pv} (From Tables) 1.034	Gravity .677	

Initial SIFP (PC) = 940 psig
Final SIFP (PC) = 945 psig

Packer at 4756

$$\text{CHOKE VOLUME} = Q = C \times P_r \times F_r \times F_g \times F_{pv}$$

$$Q = 12.365 \times 322 \times .9952 \times .9427 \times 1.034 = 3862 \text{ MCF/D}$$

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

$$A_{of} = \left(\frac{1075369}{661920} \right)^n = 1.6246^{.75} \times 3862 = 1.4390 \times 3862$$

$$A_{of} = 5557 \text{ MCF/D}$$

TESTED BY S. V. Roberts

WITNESSED BY _____

Checked By W. D. Dawson

Lewis D. Galloway
L. D. Galloway