

## APPLICATION FOR DUAL COMPLETION

Field Name <b>Blanco &amp; Tupacito P. C. Ext.</b>		County <b>Rio Arriba</b>	Date <b>March 4, 1959</b>
Operator <b>El Paso Natural Gas Company</b>		Lease <b>San Juan 27-4 Unit</b>	Well No. <b>20 (IM)</b>
Location of Well <b>G</b>	Unit <b>29</b>	Township <b>27N</b>	Range <b>4W</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. **DC-666** ; Operator, Lease, and Well No.:  
**San Juan 27-4 Unit No. 17 (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>3812-3868</b>	<b>5608-5628 Cliff House 5836-5874 Monafee 6002-6133 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** 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 Pet. 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.

**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 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, C. D. Cox, Jr., being first duly sworn upon my  
oath depose and say as follows:

I am an employee of El Paso Natural Gas Company,  
and that on January 31, 1959, I was called to the location of  
the El Paso Natural Gas Company San Juan 27-4 Unit No. 20 (PM)  
Well located in the SWNE/4 of Section 29, Township 27 North,  
Range 4 West, N.M.P.M., for advisory service in connection with  
installation of a production packer. In my presence, a Baker  
Model "EGJ" Production Packer was set in this well at 3985 feet  
in accordance with the usual practices and customs of the industry.

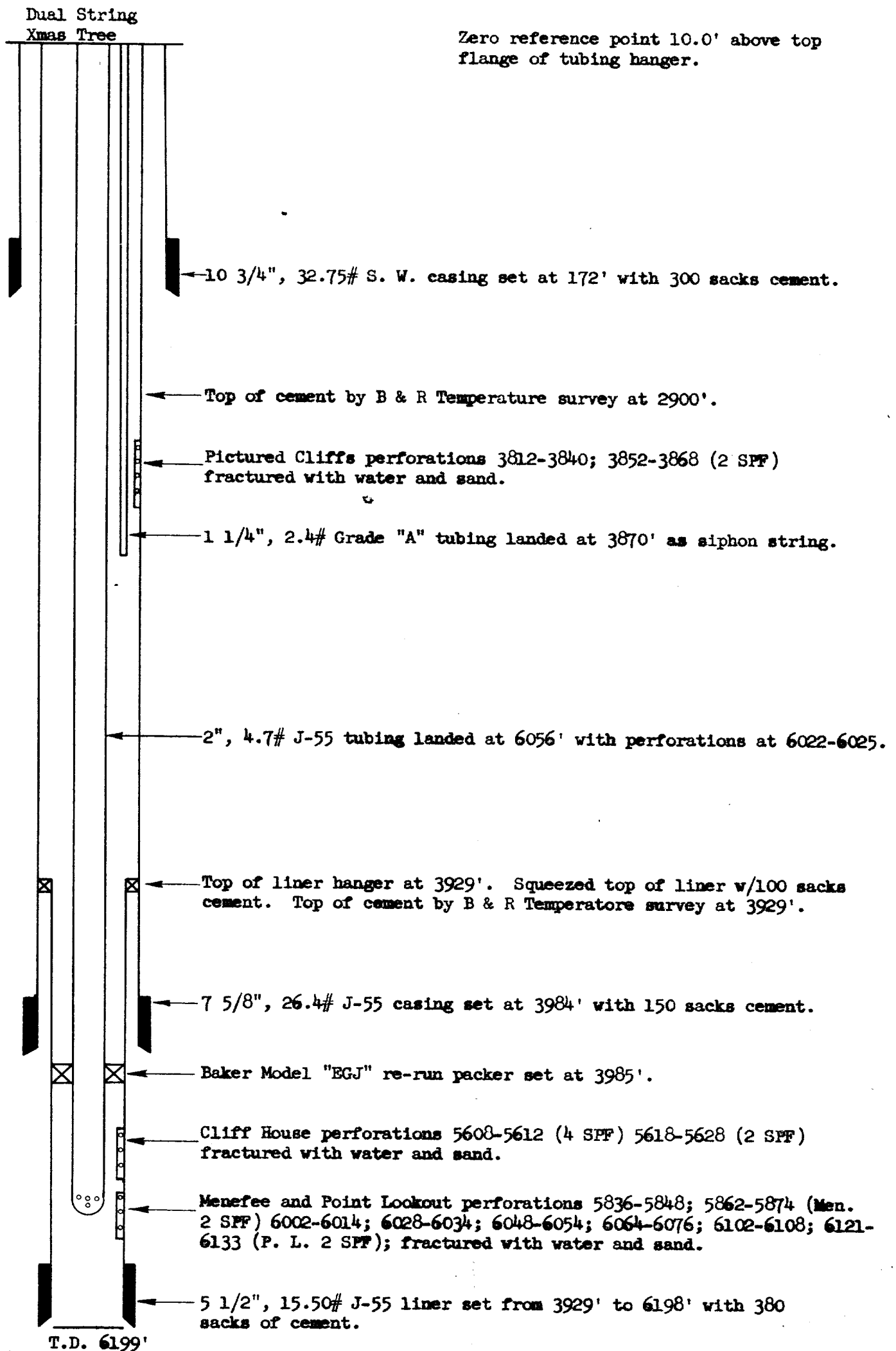
C. D. Cox, Jr.

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

Wm. C. MacIsaac  
Notary Public in and for San Juan County,  
New Mexico

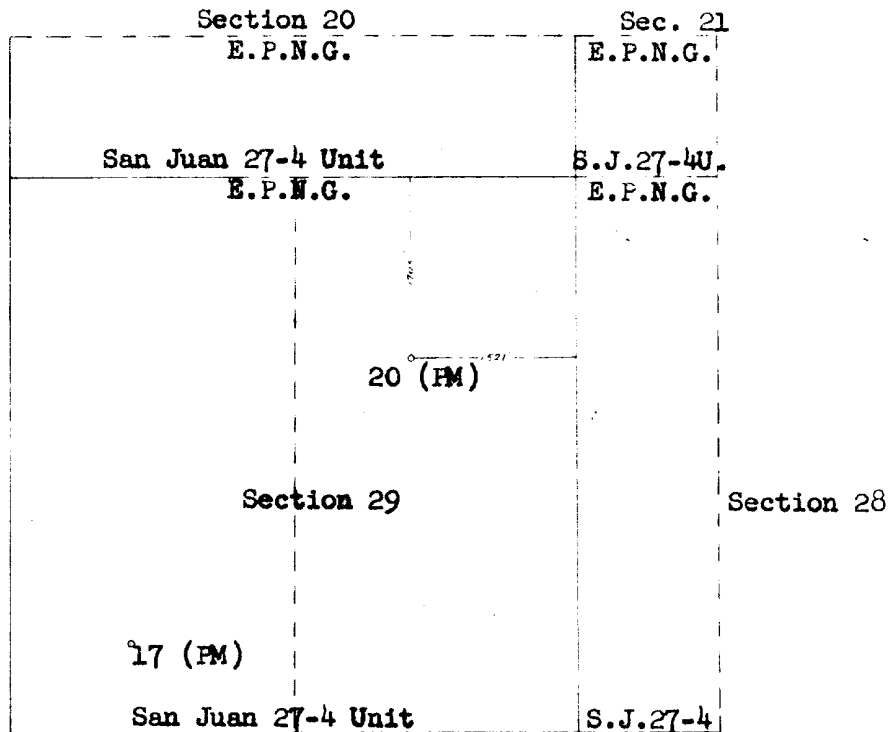
My commission expires February 24, 1960.

SCHEMATIC DIAGRAM OF DUALY COMPLETED  
 El Paso Natural Gas Co. San Juan 27-4 Unit No. 20 (FM)  
 SWNE/4 Section 29, T-27-N, R-4-W



PLAT SHOWING LOCATION OF DUALY COMPLETED  
El Paso Natural Gas Co. San Juan 27-4 Unit No. 20 (FM)  
and Offset Acreage

T-27-N  
R-4-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 February 18, 1959

Operator <b>El Paso Natural Gas</b>		Lease <b>San Juan 27-4 No. 20 (P)</b>	
Location <b>1750N, 1521E; 29-27-4</b>		County <b>Rio Arriba</b>	State <b>New Mexico</b>
Formation <b>Pictured Cliffs</b>		Pool <b>Undesignated</b>	
Casing: Diameter <b>7-5/8</b>	Set At: Feet <b>3984</b>	Tubing: Diameter <b>1-1/4</b>	Set At: Feet <b>3860</b>
Perforation <b>3812</b>	To <b>3868</b>	Total Depth <b>6193 c/o 6147</b>	<b>Shut in 1/31/59</b>
Stimulation Method <b>Sand Water Frac.</b>		Flow Through Casing <b>X</b>	Flow Through Tubing

Choke Size, Inches <b>.75</b>	Choke Constant: C <b>12.365</b>		5-1/2 liner 3929-6195	
Shut-In Pressure - Casing, PSIG <b>942 (PC)</b>	PSIG - 12" PSIA <b>954</b>	Days Shut-In <b>19</b>	Shut-In Pressure - Tubing, PSIG - 12" PSIA <b>941 (PC)</b>	<b>953</b>
Flowing Pressure, P, PSIG <b>232</b>	PSIG - 12" PSIA <b>244</b>		Working Pressure, P, PSIG - 12" PSIA <b>238</b>	<b>250</b>
Temperature: T, F <b>59</b>	n <b>.85</b>		Flow From Tables <b>1.029</b>	Gravity <b>.700</b>

Initial SIPT (MV) = 1099 psig

Final SIPT (MV) = 1101 psig

Packer 3985

CHOKE VOLUME -  $Q = C \times P_r \times F_c \times F_g \times F_{pv}$ 

$$Q = 12.365 \times 244 \times 1.001 \times .9258 \times 1.029$$

2878

MCF/D

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

$$A_{of} = \left( \frac{910116}{847616} \right)^n$$

$$1.0737^{.85} \times 2878 = 1.0624 \times 2878$$

$$A_{of} = 3058 \text{ MCF/D}$$

TESTED BY Frank Clark

WITNESSED BY \_\_\_\_\_

Checked By M. W. Rischard

*Lewis D. Galloway*  
L. D. Galloway

# OPEN FLOW TEST DATA

DUAL COMPLETION

February 6, 1959

El Paso Natural Gas

San Juan 27-4 No. 20 (M)

1750N, 1521E; 29-27-4

Rio Arriba

New Mexico

Mesa Verde

Blanco

7-5/8

3984

2"

6064

5608

6133

6193 c/o 6147

Shut in 1/31/59

Sand Water Frac.

X

.75

12.365

5-1/2 liner 3929-6195

(PC) 910

922

7

(MV) 1072

1084

308

320

Calc.

661

63

.75

1.031

.650

Initial SIPT (PC) = 898 psig

Packer at 3985

Final SIPC (PC) = 910 psig

CHECK VOLUME

$12.365 \times 320 \times .9971 \times .9608 \times 1.031$

3908

SAFE D

1175056  
738135

$1.5919^{.75} \times 3908 = 1.417 \times 3908$

5538

Frank Clark

Checked By M. W. Rischard

*Lewis D. Galloway*  
L. D. Galloway