

NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

7-3-58

APPLICATION FOR DUAL COMPLETION

Field Name Blanco & So. Blanco P. C. Ext		County Rio Arriba	Date April 28, 1959
Operator El Paso Natural Gas Company		Lease San Juan 27-5 Unit	Well No. 46 (RM)
Location of Well N	Unit 7	Township 27N	Range 2E

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. **BC-577**; Operator, Lease, and Well No.:

San Juan 28-6 Unit No. 80 (RM)

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)	3330-3398	5475-5631 (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 Co. is the operator of San Juan 27-5 and 28-6 Units



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 _____.

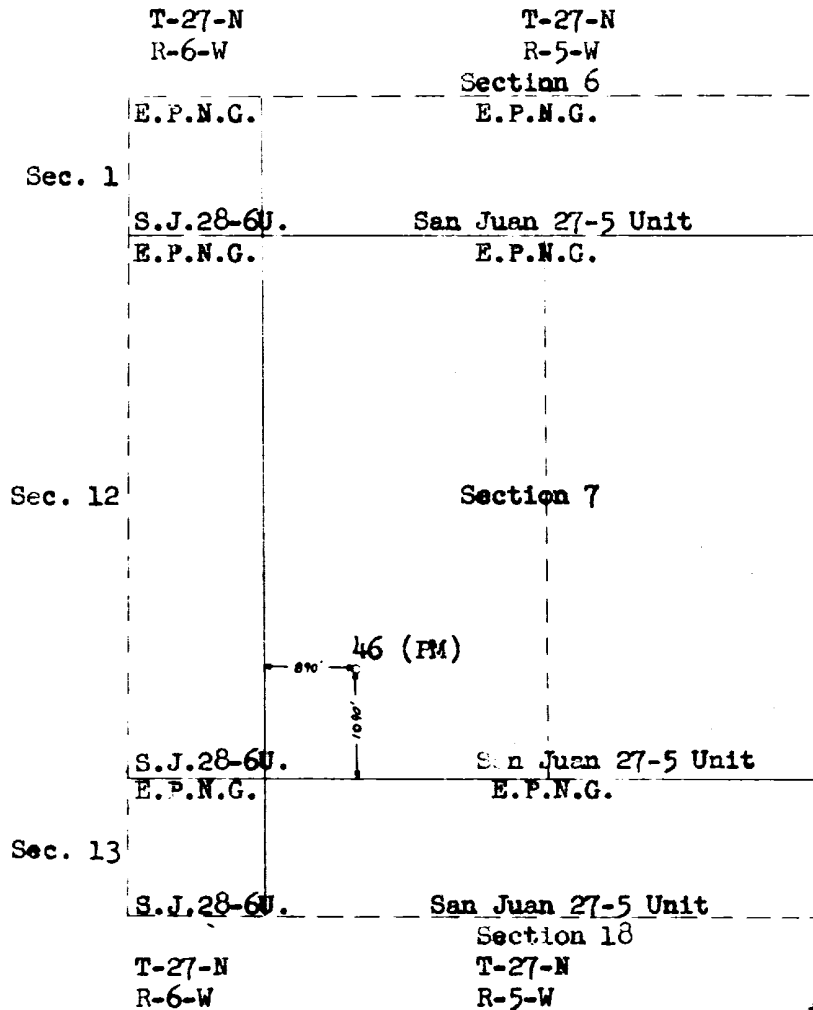
CERTIFICATE: I, the undersigned, state that I am the **Division Petroleum Eng.** of the **El Paso Natural Gas Co.** (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, 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.

Plat Showing Location of Dually Completed
El Paso Natural Gas Co. San Juan 27-5 Unit No. 46 (PM)
and Offset Acreage



EL PASO NATURAL GAS COMPANY
EL PASO, TEXAS

SCALE

DATE

No.

DRAWN BY

CHECKED BY

STATE OF NEW MEXICO
COUNTY OF SAN JUAN

I, J. J. Tillerson, 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 March 31, 1959, I was called to the location of the El Paso
Natural Gas Company San Juan 27-5 Unit No. 46 (PM) Well located in
the SWSW/4 of Section 7, Township 27 North, Range 5 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 3564 feet in accordance with the usual practices and customs
of the industry.



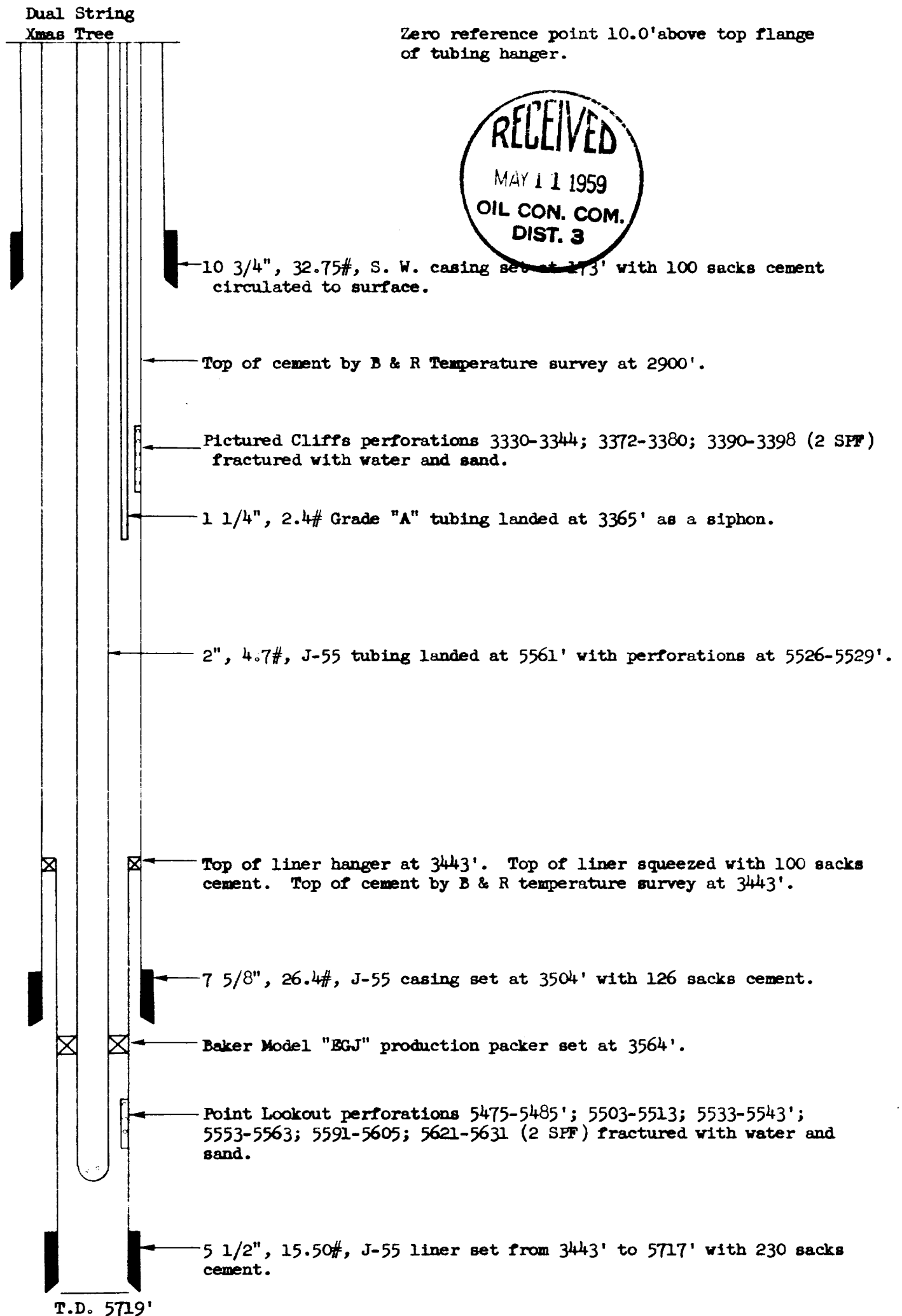
J. J. Tillerson

Subscribed and sworn to before me this 5th day of May,
1959.

Paul D. MacCallister
Notary Public in and for San Juan County,
New Mexico

My commission expires February 24, 1960.

Schematic Diagram of Dually Completed
El Paso Natural Gas Co. San Juan 27-5 Unit No. 46 (PM)
SW Section 7, T-27-N, R-5-W



EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE April 10, 1959

Operator El Paso Natural Gas		Lease San Juan 27-5 No. 46 (M)	
Location 1090S, 890W; 7-27-5		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 7-5/8	Set At: Feet 3504	Tubing: Diameter 2"	Set At: Feet 5551
Pay Zone: From 5475	To 5631	Total Depth 5719 c/o 5660	Flow Test: g/casing 3/31/59
Simulation Method Sand Water Frac.		Flow Through Tubing X	

Choke Size: Inches 12.365		Choke Constant: C .75	
Shut-In Pressure, Casing 1055 (PC)	PSIG 1067	Days Shutter 10	Shut-In Pressure, Tubing 1029 (MV)
Flowing Pressure, Casing 219	PSIG 231		Flowing Pressure, Tubing Calc. 461
Temperature, Casing 62	F .75		Temperature, Tubing 1.025
			Gravity .693

Initial SIPT (PC) = 1055 psig
Final SIPC (PC) = 1061 psig

Packer at 3564

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

$$C = 12.365 \times 231 \times .9981 \times .9325 \times 1.025$$

2725

MCF/D

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

$$Q = \left(\frac{1083681}{871160} \right)^n$$

$$1.2439^{.75} \times 2725 = 1.1777 \times 2725$$

3209 MCF/D

TESTED BY **M. W. Rischard**

WITNESSED BY

Lewis D. Galloway
L. D. Galloway



EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE April 17, 1959

Operator El Paso Natural Gas		Lease San Juan 27-5 No. 46 (P)	
Location 10908, 890W; 7-27-5		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Zones South Blanco	
Casing Diameter 7-5/8	Set At Feet 3504	Tubing Diameter 1-1/4	Set At Feet 3355
Pack Off Pressure 3330	Pressure 3398	Total Length 5719 c/o 5660	Shut in 3/31/59 Flow Through Tubing
Stimulation Method Sand Water Frac.		Flow Through Casing X	

Casing Size, inches 12.365	Casing Weight, lb/ft .75	Tubing Size, inches 5-1/2 liner 3443 - 5717	Tubing Weight, lb/ft 7
Surface Pressure, PSIG 1075	Pressure, PSIA 1087	Surface Pressure, PSIG 1075	Pressure, PSIA 1087
Flow Temperature, °F 167	Pressure, PSIA 179	Flow Temperature, °F 184	Pressure, PSIA 196
Temperature, °F 58	Pressure, PSIA .85	Flow From Cables, Gravity 1.019	Gravity .670

Initial SIPT (MV) = 1037 psig
Final SIPT (MV) = 1040 psig

Packer at 3564

CHOKE VOLUME $Q = C \times R \times E \times F_g \times F_v$

$$C = 12.365 \times 179 \times 1.0019 \times .9463 \times 1.019 = 2138 \text{ MCF D}$$

$$OPENFLOW = Q \left(\frac{R}{R_w} \right)^n$$

$$Q = \left(\frac{1181569}{1143153} \right)^{.85}$$

$$1.0336^{.85} \times 2138 = 1.0285 \times 2138$$

2199

M. W. Rischard



Lewis D. Galloway
L. D. Galloway