

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

OIL CONSERVATION COMMISSION  
BOX 871  
SANTA FE, NEW MEXICO

DATE 3-1-60  
2-17-60  
RE: Proposed NSP \_\_\_\_\_  
Proposed NSL \_\_\_\_\_  
Proposed NFO \_\_\_\_\_  
Proposed DC ✓

Gentlemen:

I have examined the application dated 2-17-60  
for the EPNG Pincon Unit #126 N-27-27N-6W  
Operator Lease and Well No. S-T-R

and my recommendations are as follows:

See page  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Yours very truly,

James E. Gurnel  
OIL CONSERVATION COMMISSION

## NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

7-3-58

## APPLICATION FOR DUAL COMPLETION

Field Name <b>Blanco M. V. &amp; Wildcat Dakota</b>		County <b>Rio Arriba</b>	Date <b>February 17, 1960</b>
Operator <b>El Paso Natural Gas Company</b>		Lease <b>Rincon Unit</b>	Well No. <b>126 (MD)</b>
Location of Well <b>N</b>	Unit <b>27</b>	Township <b>27N</b>	Range <b>6W</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 X
2. If answer is yes, identify one such instance: Order No. \_\_\_\_\_; Operator, Lease, and Well No.:

3. The following facts are submitted:	Upper Zone	Lower Zone
a. Name of reservoir	<b>Mesa Verde</b>	<b>Dakota</b>
b. Top and Bottom of Pay Section (Perforations)	<b>5364-5506</b>	<b>7416-7520 (Graneros) 7542-7635 (Lower Dakota)</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>

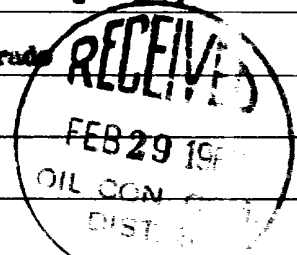
4. The following are attached. (Please mark YES or NO)

- 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.

**Lowry, et al Opr. Account - A. F. Holland, Room 213, 616 E. Central, Albuquerque, New Mexico**

**Caulkins Oil Co. - 1130 First National Bank Building, Denver 2, Colorado**



6. Were all operators listed in Item 5 above notified and furnished a copy of this application? YES X NO \_\_\_\_ If answer is yes, give date of such notification 2-17-60

CERTIFICATE: I, the undersigned, state that I am the **Division Pet. Engr.** of the **El Paso Natural Gas Company** (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. GIBBY**

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, Mack M. Mahaffey, being first duly sworn upon my oath depose and say as follows:

I am an employee of Baker Oil Tools, Inc., and that on December 31, 1959, I was called to the location of the El Paso Natural Gas Company Rincon Unit No. 126 (MD) Well located in the SESW/4 of Section 27, Township 27 North, Range 6 West, N.M.P.M., for advisory service in connection with installation of a production packer. In my presence, a Baker Model "D" Production Packer was set in this well at 7200 feet in accordance with the usual practices and customs of the industry.

Mack M. Mahaffey

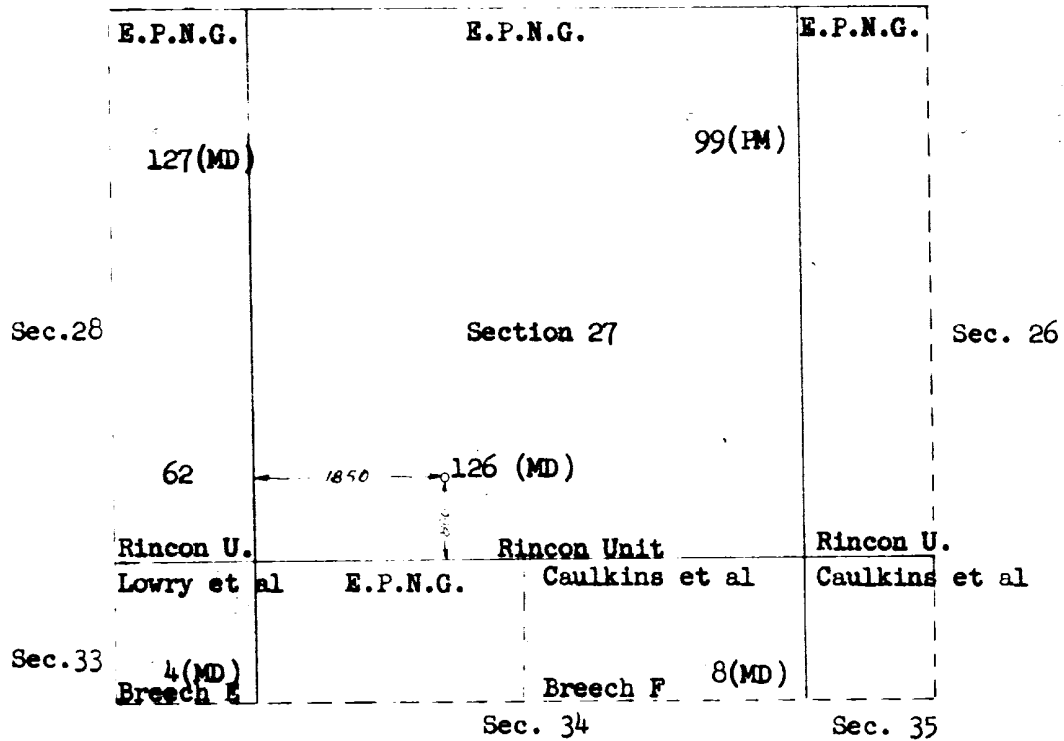
Subscribed and sworn to before me this 18th day of February, 1960.

Notary Public in and for San Juan County,  
New Mexico

My commission expires February 24, 1960.

PLAT SHOWING LOCATION OF DUALY COMPLETED  
El Paso Natural Gas Co. Rincon Unit No. 126 (MD)  
and Offset Acreage

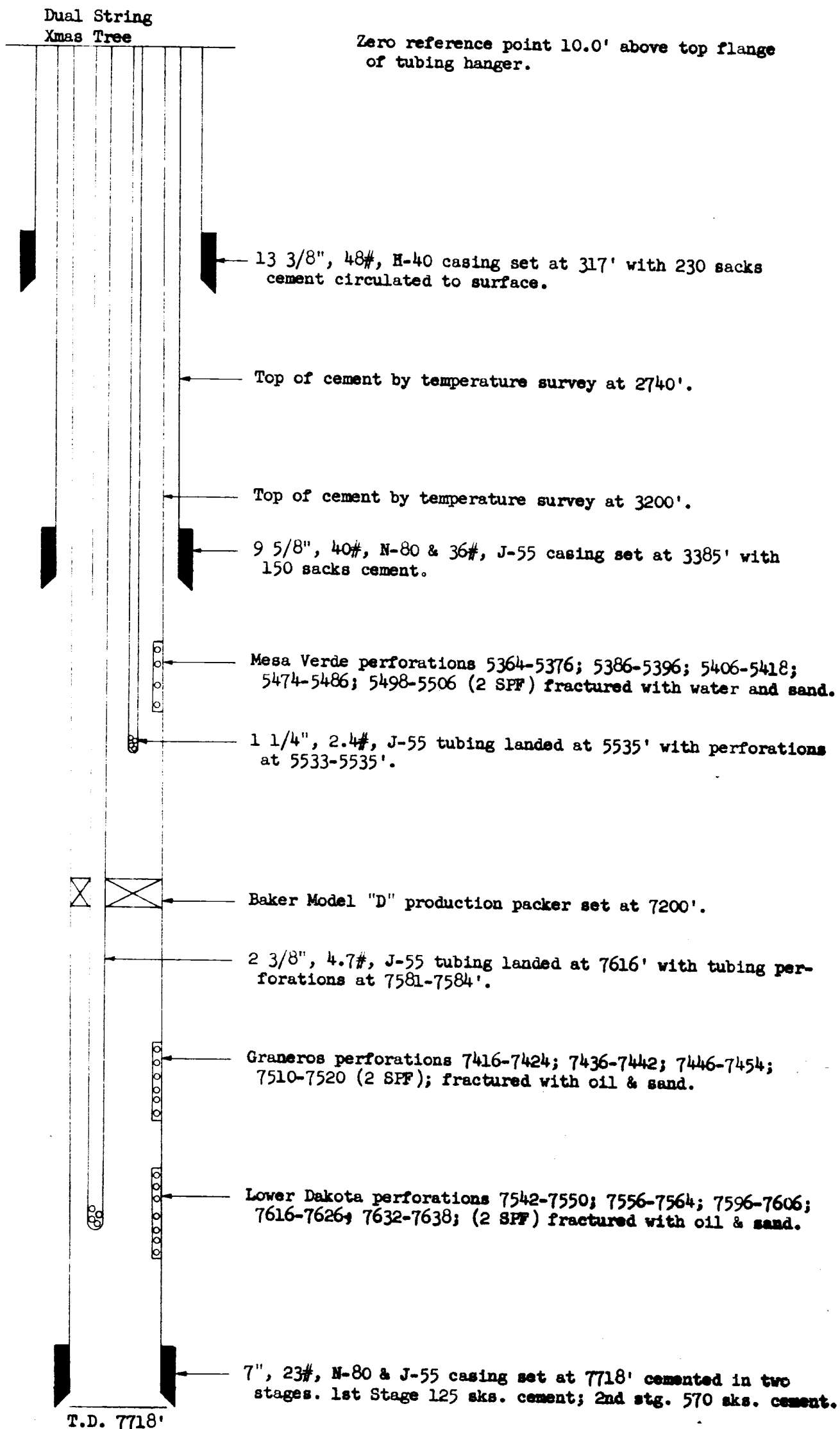
T-27-N  
R-6-W



EL PASO NATURAL GAS COMPANY  
EL PASO, TEXAS

SCALE DATE No.  
DRAWN BY CHECKED BY

**SCHEMATIC DIAGRAM OF DUAL COMPLETION**  
**El Paso Natural Gas Co. Rincon Unit No. 126 (MD)**  
**SW/4 Section 27, T-27-N, R-6-W**



EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE **January 20, 1960**

Operator <b>El Paso Natural Gas</b>		Lease <b>Rincon Unit No. 126 (M)</b>	
Location <b>800G, 1850W; 27-27-6</b>		County <b>Rio Arriba</b>	State <b>New Mexico</b>
Formation <b>Mesa Verde</b>		Pool <b>Blanco</b>	
Casing Diameter <b>7</b>	Set At Feet <b>7718</b>	Tubing Diameter <b>1-1/4</b>	Set At Feet <b>5525</b>
Pay Zone From <b>5364</b>	<b>5506</b>	Total Depth <b>c/o 7670</b>	Shut In <b>12/31/59</b>
Stimulation Method <b>Sand Water Frac.</b>		Flow Through Casing <b>X</b>	
		Flow Through Tubing	

Choke Size, Inches <b>.75</b>		Choke Coefficient <b>12.365</b>	
Injection Pressure, Gas <b>1096</b>	PSIG - 12 - PSIA <b>1108</b>	Shut In Pressure, Tubing <b>1100</b>	PSIG - 12 - PSIA <b>1112</b>
Flowing Pressure, P <b>92</b>	PSIG - 12 - PSIA <b>104</b>	Working Pressure, Pw <b>98</b>	PSIG - 12 - PSIA <b>110</b>
Temperature <b>48</b>	<b>1.0117</b>	Specific Gravity <b>1.012</b>	<b>.708</b>
	<b>.75</b>		<b>.9225</b>

Initial SIPT (D) = 2328

Baker Model "D" packer at 7200

Final SIPT (D) = 2339

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

$$Q = 12.365 \times 104 \times 1.0117 \times .9225 \times 1.012$$

1215

MCF/D

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

$$A_{sf} = \left( \frac{1236544}{1224444} \right)^n$$

$$1.0098^{.75} \times 1215 = 1.0073 \times 7215$$

A<sub>sf</sub>

1224

MCF/D

APPROVED BY **Jesse B. Goodwin**

WITNESSED BY

Checked By W. D. Dawson

*Lewis D. Galloway*  
L. D. Galloway

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE **January 8, 1960**

Operator <b>El Paso Natural Gas</b>		Lease <b>Rincon Unit No. 126 (D)</b>	
Location <b>8008, 1850W; 27-27-6</b>		County <b>Rio Arriba</b>	State <b>New Mexico</b>
Formation <b>Dakota</b>		Pool <b>Undesignated</b>	
Casing: Diameter <b>7</b>	Set At: Feet <b>7718</b>	Tubing: Diameter <b>2</b>	Set At: Feet <b>7606</b>
Pay Zone: From <b>7416</b>	To <b>7638</b>	Total Depth: <b>s/o 7670</b>	Shut In <b>12/31/59</b>
Stimulation Method <b>Sand Oil 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, Casing, (MV) <b>1016</b>	PSIG + 12 PSIA <b>1028</b>	Days Shut-In <b>8</b>	Shut-In Pressure, Tubing (D) <b>2134</b>
Flowing Pressure: P (D Tag.) <b>296</b>	PSIG + 12 PSIA <b>308</b>	Working Pressure: P <sub>w</sub> <b>Calc.</b>	PSIG + 12 PSIA <b>685</b>
Temperature: T <b>66</b> °F	F <sub>t</sub> <b>.9943</b>	F <sub>pv</sub> (From Tables) <b>1.030</b>	Gravity F <sub>g</sub> <b>.9498</b>

Initial SIPT (MV) = 1021 psig

Final SIPC (MV) = 1032 psig

Baker Model "D" packer at 7200

$$\text{CHOKE VOLUME} = Q \quad C \times P_i \times F_t \times F_g \times F_{pv}$$

$$Q \quad 12.365 \times 308 \times .9943 \times .9498 \times 1.030$$

3705

MCF/D

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

$$A_{of} \left( \frac{4605316}{4136091} \right)^n$$

$$1.1134^{.75} \times 3705 = 1.0840 \times 3705$$

$$A_{of} \quad 4016$$

MCF/D

W. D. Dawson

WITNESSED BY

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