

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

DATE 3-15-60

OIL CONSERVATION COMMISSION  
BOX 871  
SANTA FE, NEW MEXICO

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

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

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

Proposed DC X

Gentlemen:

I have examined the application dated March 9, 1960  
for the EPNG Renew Unit 150 (MD) A-6-26N-64  
Operator Lease and Well No. S-T-R

and my recommendations are as follows:

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

Yours very truly,

OIL CONSERVATION COMMISSION

A. R. Headrick

## NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

7-3-58

## APPLICATION FOR DUAL COMPLETION

Field Name <b>Blanco M. V. Ext &amp; So. Blanco Dakota</b>		County <b>Rio Arriba</b>	Date <b>March 9, 1960</b>
Operator <b>El Paso Natural Gas Company</b>		Lease <b>Rincon Unit</b>	Well No. <b>150 (MD)</b>
Location of Well <b>A</b>	Unit <b>6</b>	Township <b>26N</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** ☒
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>5144-5252 (1 Int Lookout)</b>	<b>7184-7238 (Graneros) 7318-7404 (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)

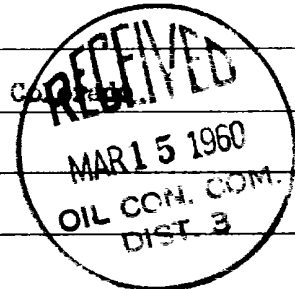
- Yes** a. Diagrammatic Sketch of the Dual Completion, showing all casing strings, including size and setting, top of cement, perforated intervals, tubing strings, including diameters and setting depth, location and type of packers and side door chokes, and such other information as may be pertinent.
- 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.

**Waivers to be sent to Santa Fe under separate cover.**

**R. E. Mead - 3333 Republic National Bank Building, Dallas 1, Texas**

**Caulkins Oil Company - 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** ☒ **NO** ☐ . If answer is yes, give date of such notification **March 9, 1960**

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, 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 January 16, 1960, I was called to the location of the El Paso Natural Gas Company Rincon Unit No. 150 (MD) Well located in the NENE/4 of Section 6, Township 26 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 6933 feet in accordance with the usual practices and customs of the industry.

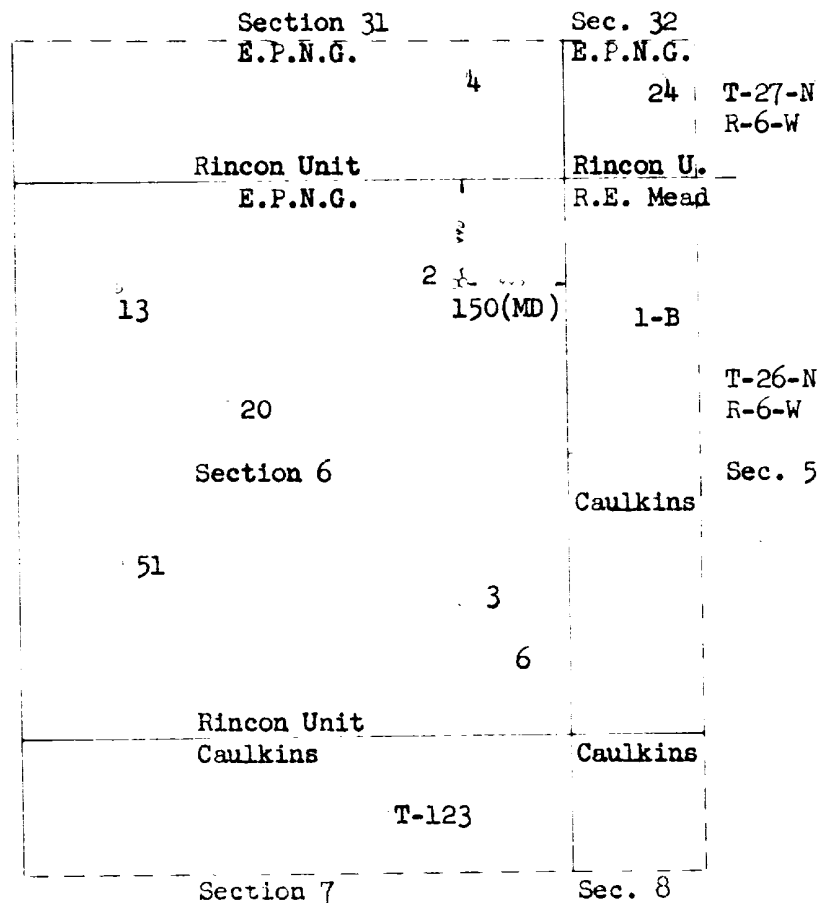
Mack M. Mahaffey

Subscribed and sworn to before me this 11th day of March, 1960.

James Earl Hall  
Notary Public in and for San Juan County,  
New Mexico

My commission expires 6-21, 1961

PLAT SHOWING LOCATION OF DUALY COMPLETED  
El Paso Natural Gas Co. Rincon Unit No. 150 (MD)  
and Offset Acreage



EL PASO NATURAL GAS COMPANY  
EL PASO, TEXAS

SCALE

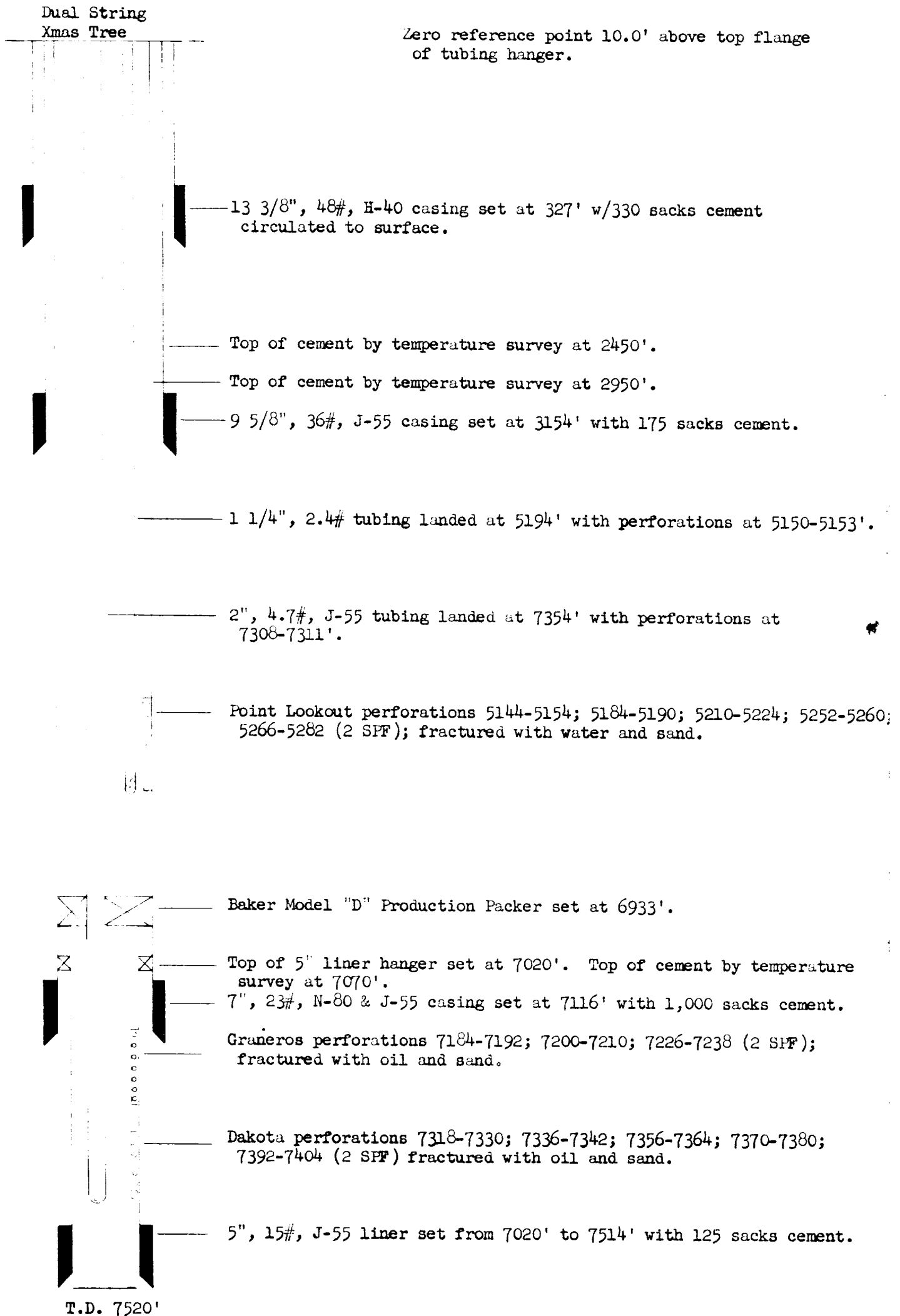
DATE

No.

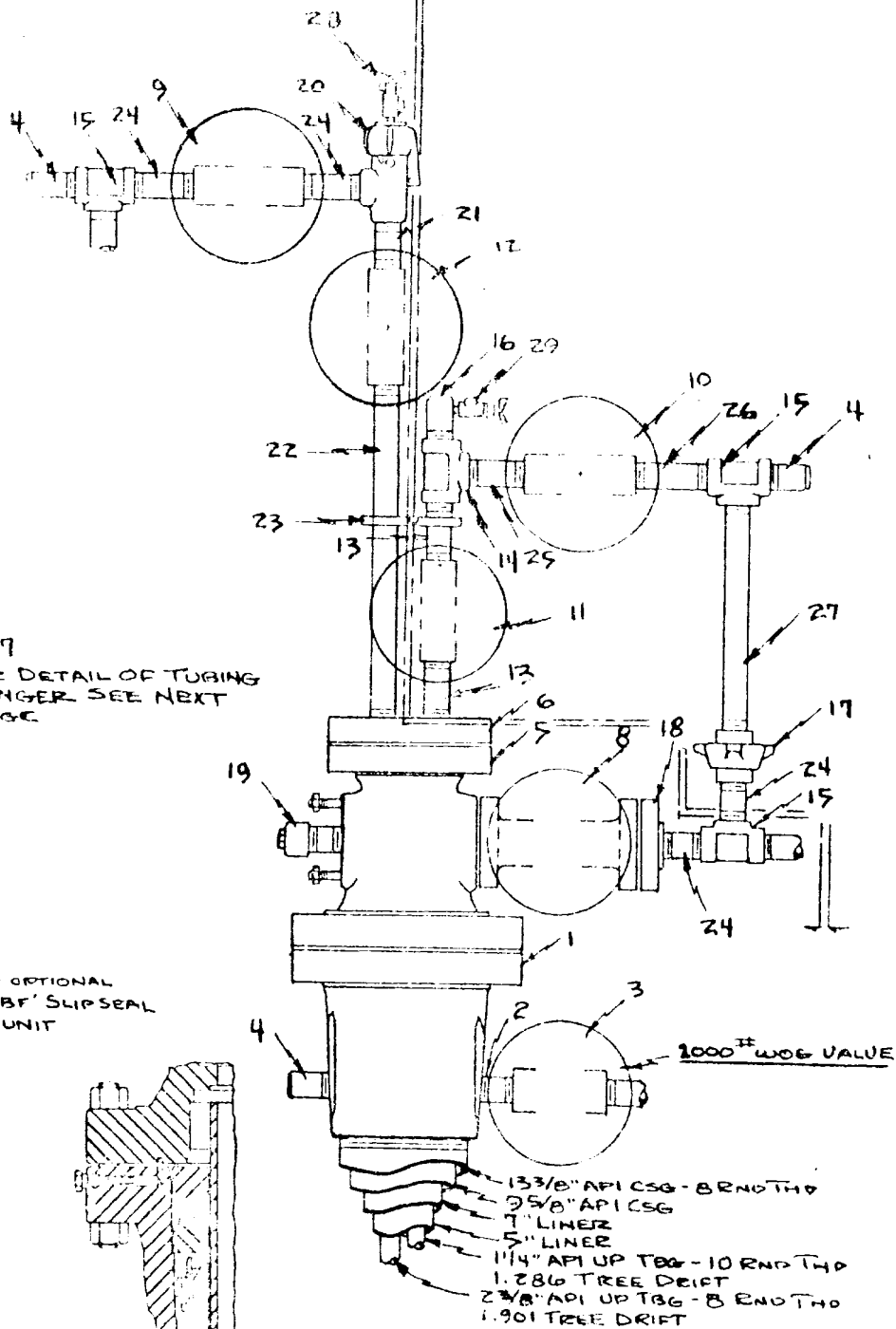
DRAWN BY

CHECKED BY

SCHEMATIC DIAGRAM OF DUAL COMPLETION  
El Paso Natural Gas Co. Rincon Unit No. 150 (MD)  
NE/4 Section 6, T-26-N, R-6-W

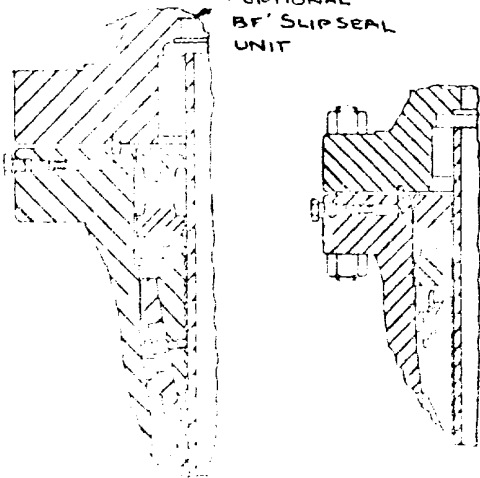


-3000# Intest. 2000# Ext. Load-

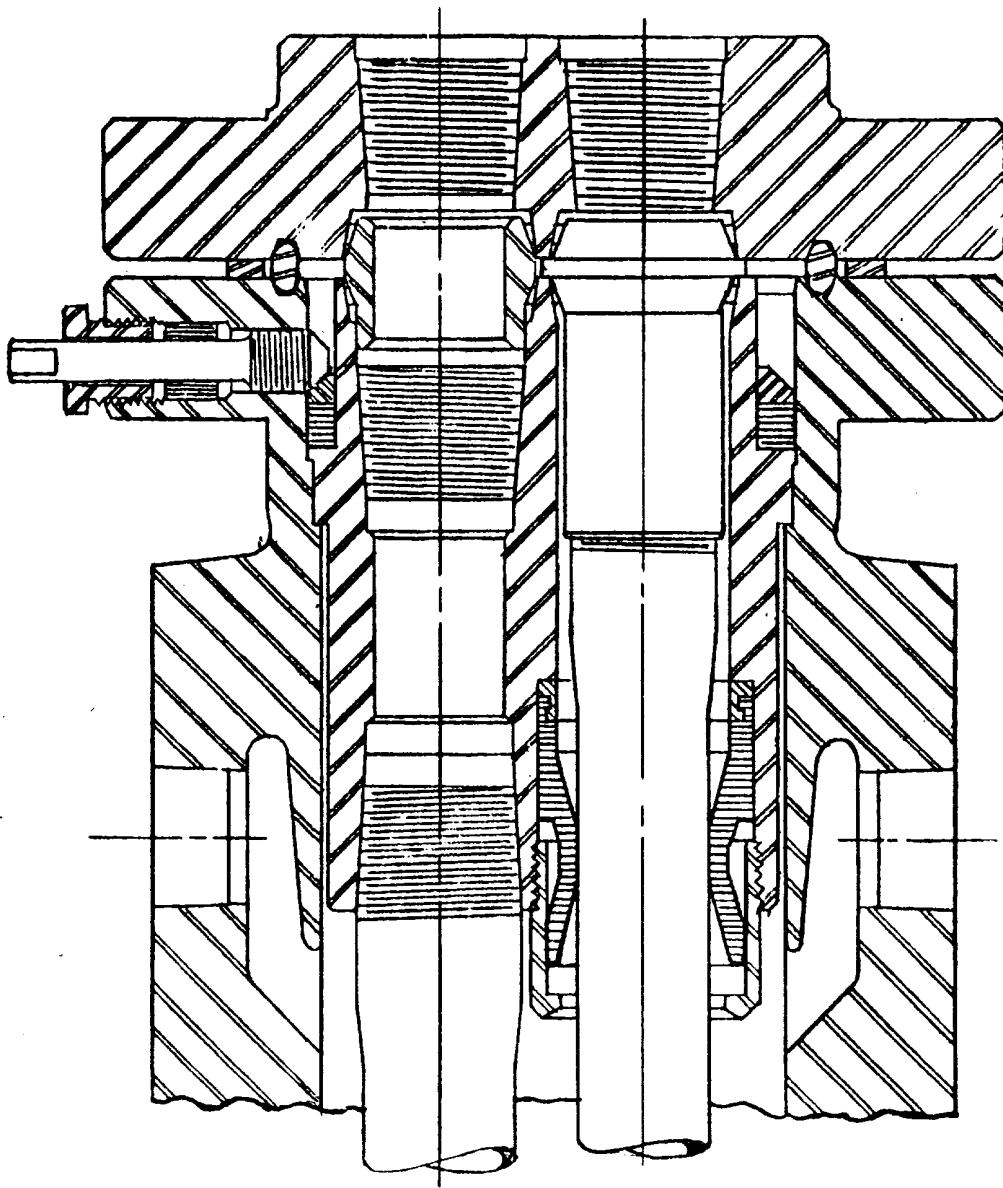


No 9  
FOR DETAIL OF TUBING  
HANGER SEE NEXT  
PAGE

OPTIONAL  
BF SLIP SEAL  
UNIT



THE NATIONAL SUPPLY CO. HOUSTON, TEXAS		
EL PASO NATURAL GAS CO.		
SCALE 5'-0"-10'	SUPPLEMENT	35690
DRAWN D. J. A.		



EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE **January 25, 1960**

Operator <b>El Paso Natural Gas</b>		Lease <b>Rincon Unit 150 (D)</b>	
Location <b>990N, 990E; 6-26-6</b>		County <b>Rio Arriba</b>	State <b>New Mexico</b>
Formation <b>Dakota</b>		Pool <b>Undesignated</b>	
Casing: Diameter <b>5</b>	Set At: Feet <b>7514</b>	Tubing: Diameter <b>2</b>	Set At: Feet <b>7344</b>
Pay Zone: From <b>7184</b>	To <b>7404</b>	Total Depth <b>7540 c/o 7471</b>	Shut In <b>1/16/60</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 <sub>1</sub> <b>12.365</b>		7" at 7116; 5" liner 7020-7514	
Shut-In Pressure, Casing (MV) <b>998</b>	PSIG - 12 - PSIA <b>1010</b>	Shut-In Pressure, Tubing (D) <b>2109</b>	PSIG - 12 - PSIA <b>2121</b>		
Flowing Pressure, Casing (D Tag) <b>290</b>	PSIG - 12 - PSIA <b>302</b>	Working Pressure, Casing <b>Calc.</b>	PSIG - 12 - PSIA <b>663</b>		
Temperature T <b>67</b> F	F <sub>g</sub> <b>.9933</b>	F <sub>g</sub> (From Tables) <b>1.030</b>	Gravity <b>.668</b>	F <sub>g</sub> <b>.9498</b>	

Initial SIPT (MV) = 999 psig  
Final SIPT (MV) = 1035 psig

Packer at 6933

CHOKE VOLUME  $Q = C \times P_1 \times F_1 \times F_g \times F_{gv}$

$$Q = 12.365 \times 302 \times .9933 \times .9498 \times 1.030$$

3629

MCF/D

OPEN FLOW  $A_{of} = Q \left( \frac{P_1^2 - P_2^2}{P_0^2 - P_2^2} \right)^n$

Blew an oily mist three times approx. 1 min. apart 5 min. after test started.

$$A_{of} = \left( \frac{4498641}{4059072} \right)^n$$

$$1.1082^{.75} \times 3629 = 1.0802 \times 3629$$

A<sub>of</sub> **3920**

MCF/D

TESTED BY **W. D. Dawson**

WITNESSED BY

*Lewis D. Galloway*  
L. D. Galloway



# OPEN FLOW TEST DATA

DUAL COMPLETION

February 16, 1960

El Paso Natural Gas		Rincon Unit No. 150 (M)	
990N, 990E; 6-26-6		Rio Arriba	New Mexico
Mesa Verde		Blanco	
7	7116	1-1/4	5184
5144	5282	7540	xxxx Re-SI 2/4/60
Sand Water Frac.		X	

.75	12.365		
(MV) 1120	1132	12	(MV) 1124
(MV) Csg. 75	87		(MV Tbg.) 80
58	1.0019	.75	1.011
			.708 .9225

Initial SIPT (D) = 2345 psig

Baker Model "D" Packer at 6933

Final SIPT (D) = 2356 psig

$$12.365 \times 87 \times 1.0019 \times .9225 \times 1.011$$

1005

1290496  
1282032

$$1.0066^{.75} \times 1005 = 1.0049 \times 1005$$

1010

W. D. Dawson

*Lewis D. Galloway*  
L. D. Galloway