

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

OIL CONSERVATION COMMISSION
BOX 871
SANTA FE, NEW MEXICO

DATE 3-18-60

RE: Proposed NSP _____

Proposed NSL _____

Proposed NFO _____

Proposed DC ✓

Gentlemen:

I have examined the application dated 3-9-60
for the EPING RINCON UNIT N-26-27N-6W
Operator Lease and Well No. S-T-R

and my recommendations are as follows:

Approve

Yours very truly,

OIL CONSERVATION COMMISSION

A. R. Kendrick

NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

7-3-58

APPLICATION FOR DUAL COMPLETION

Field Name <u>Blanco M. V. Wildcat Dakota</u>		County <u>San Arriba</u>	Date <u>March 9, 1960</u>
Operator <u>El Paso Natural Gas Company</u>		Lease <u>Rincon Unit</u>	Well No. <u>125 (MD)</u>
Location of Well <u>N</u>	Unit <u>26</u>	Section <u>27N</u>	Range <u>6W</u>

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	<u>Mesa Verde</u>	<u>Dakota</u>
b. Top and Bottom of Pay Section (Perforations)	<u>5424-5520 (Point Lookout)</u>	<u>7418-7514 (Graneros) 7533-7621 (Dakota)</u>
c. Type of production (Oil or Gas)	<u>Gas</u>	<u>Gas</u>
d. Method of Production (Flowing or Artificial Lift)	<u>Flowing</u>	<u>Flowing</u>

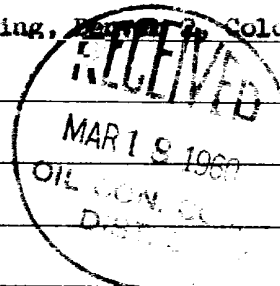
4. The following are attached. (Please mark YES or NO)

- 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.

Waiver to be sent to Santa Fe under separate cover.

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 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. 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. 125 (MD) Well located in the SESW/4 of Section 26, 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 6248 feet in accordance with the usual practices and customs of the industry.

Mack M. Mahaffey

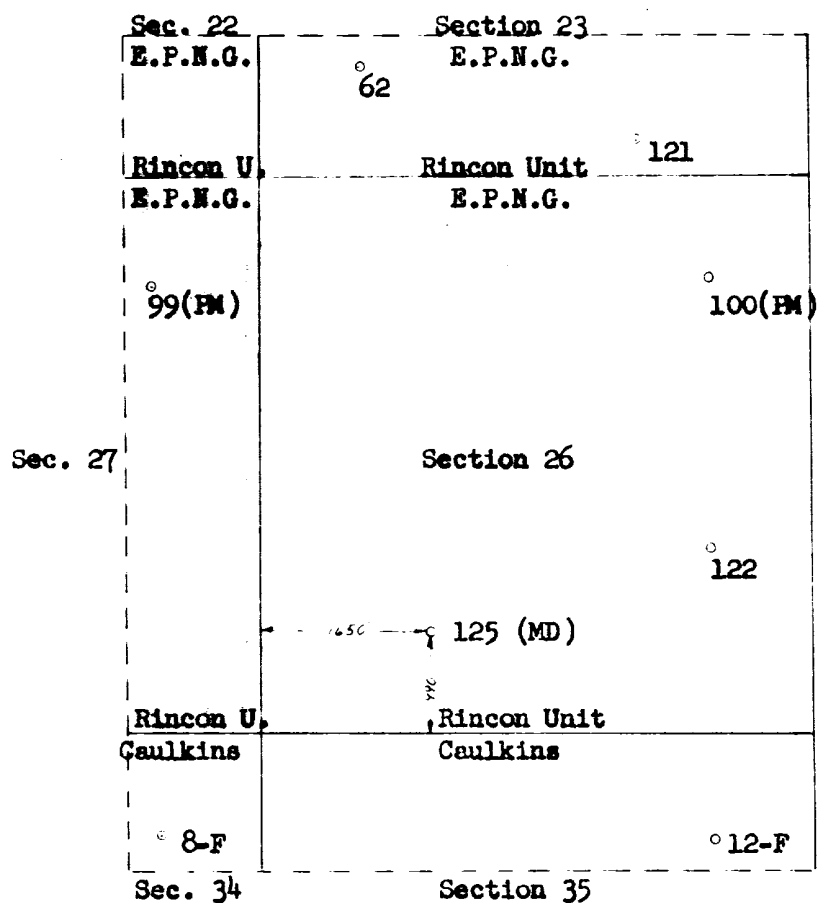
Subscribed and sworn to before me this 11th day of March, 1960.

Shirley Blair Hill
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. 125 (MD)
and Offset Acreage

T-27-N
R-6-W



EL PASO NATURAL GAS COMPANY
EL PASO, TEXAS

SCALE

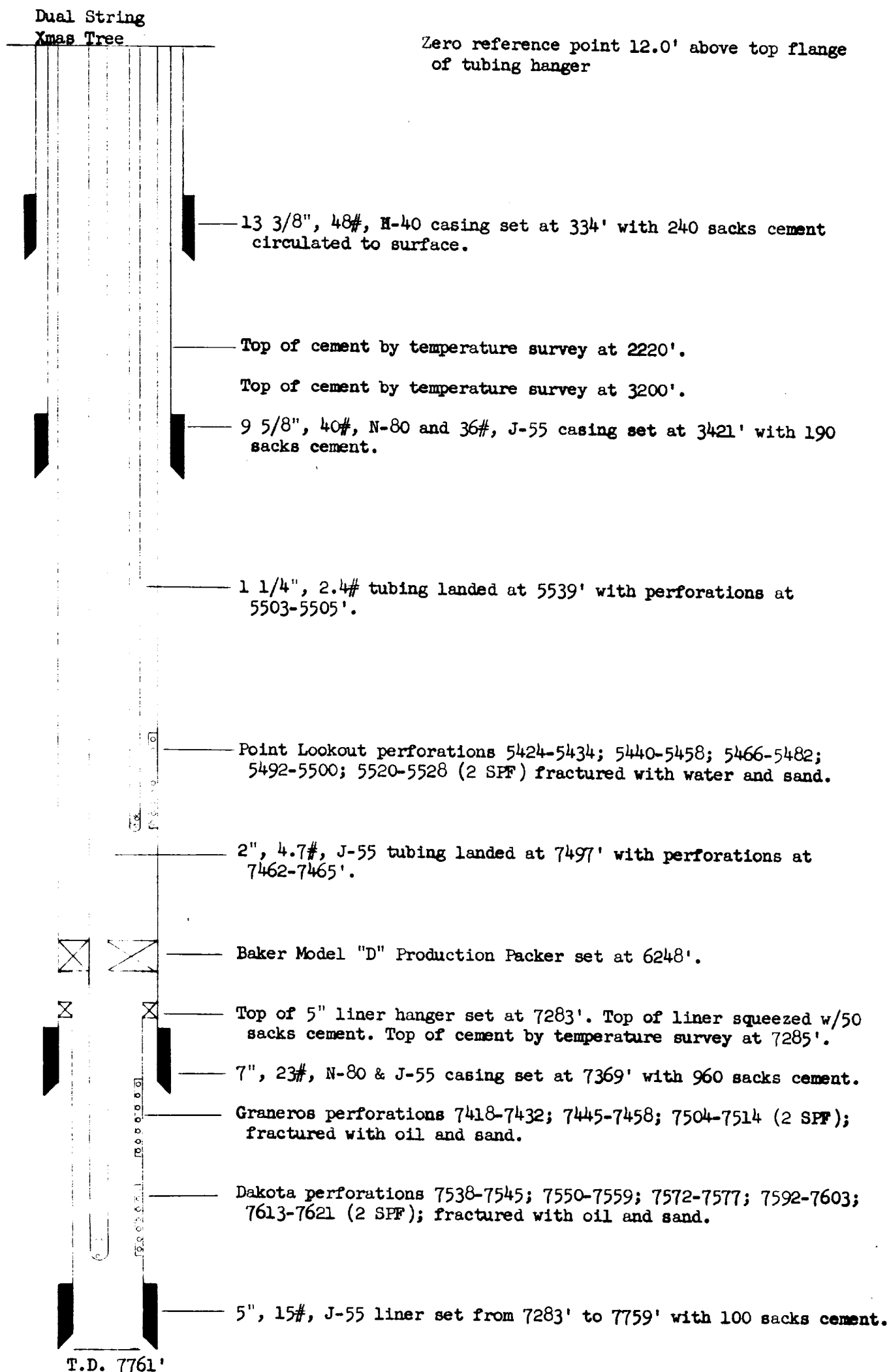
DATE

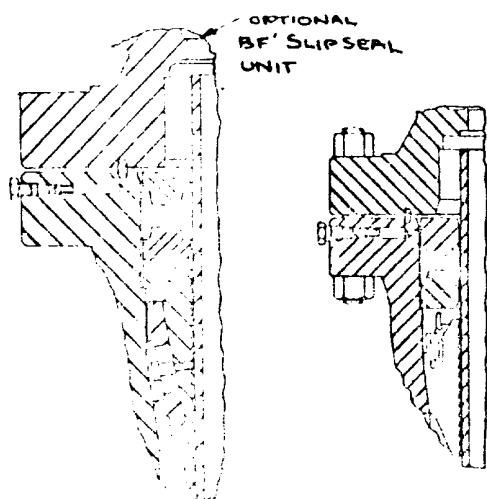
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DRAWN BY

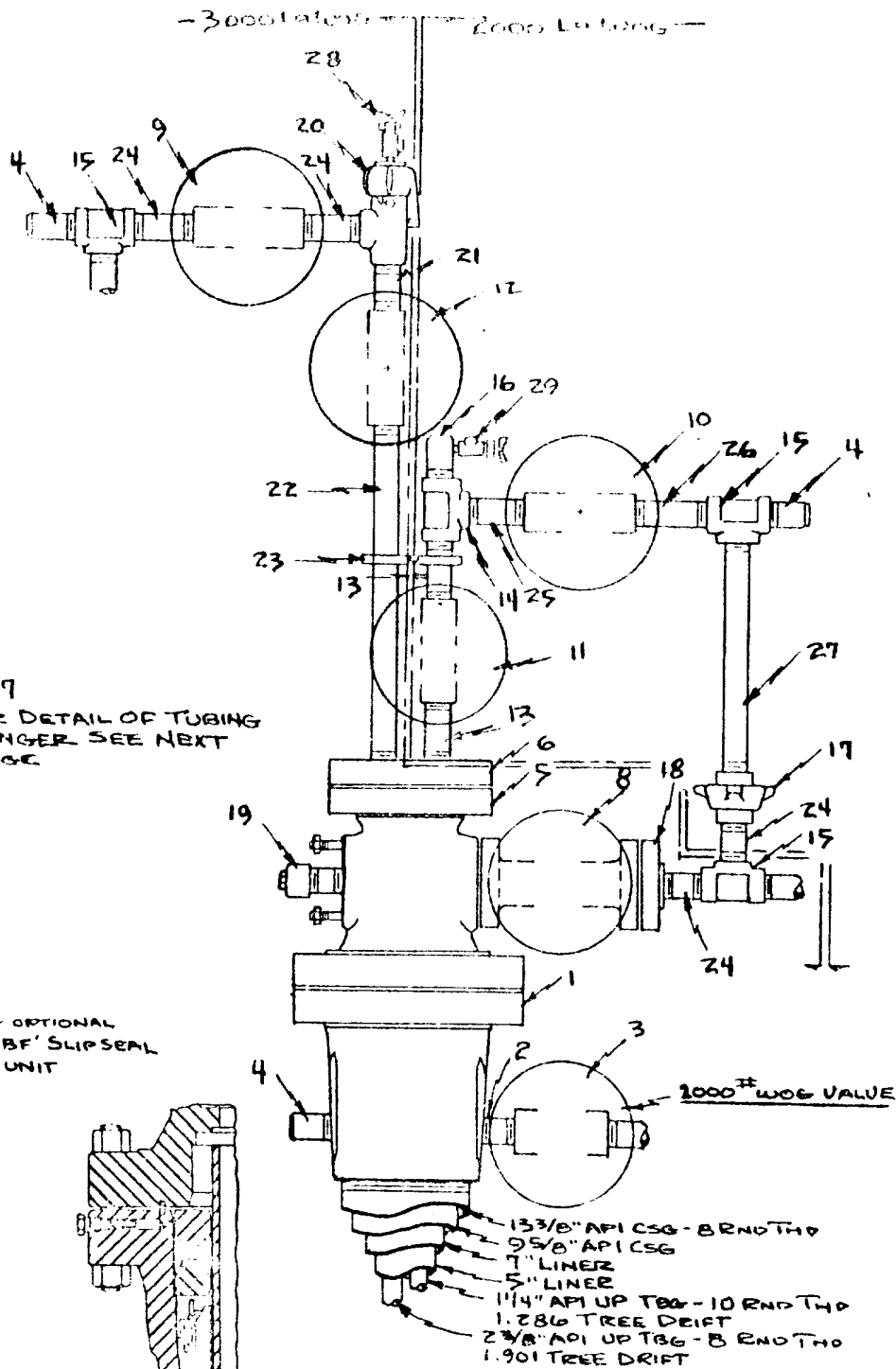
CHECKED BY

SCHEMATIC DIAGRAM OF DUAL COMPLETION
El Paso Natural Gas Co. Rincon Unit No. 125 (MD)
SW/4 Section 26, T-27-N, R-6-W

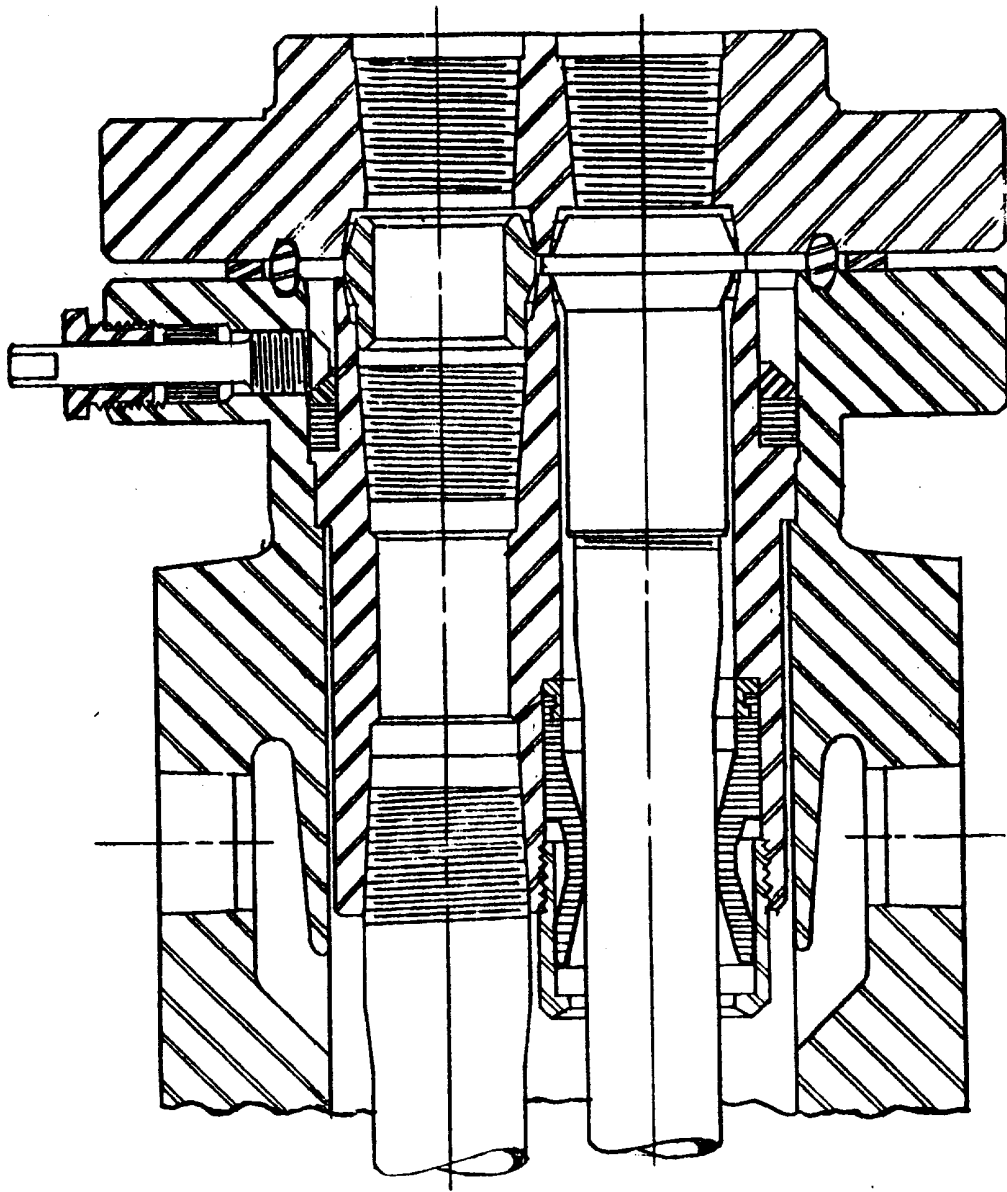




NO 9
FOR DETAIL OF TUBING
HANGER SEE NEXT
PAGE



THE NATIONAL SUPPLY CO. HOUSTON PLANT DIVISION HOUSTON, TEXAS	
EL PASO NATURAL GAS CO.	
SCALE 3/8"-1/4"	SUPERSEDING
DRAWN D.M.	35690



EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPETITION

DATE January 25, 1960

Operator El Paso Natural Gas		Lease Rincon Unit No. 125 (D)	
Location 9908, 1650N; 26-27-6		County Rio Arriba	State New Mexico
Formation Dakota		Pool Undesignated	
Casing: Diameter 5"	Set At: Feet 7759	Tubing: Diameter 2	Set At: Feet 7485
Pay Zone: From 7418	To 7621	Total Depth: 7761 o/o 7630	Shut In 1/16/60
Stimulation Method Sand Oil Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .75		Choke Constant: C 12.365		5" liner 7283-7759	
Shut-In Pressure, Casing, PSIG (MV) 989	+ 12 = PSIA 1001	Days Shut-In 9	Shut-In Pressure, Tubing, PSIG (D) 2434	+ 12 = PSIA 2446	
Flowing Pressure: P, PSIG (D Tag) 278	+ 12 = PSIA 290	Working Pressure: P _w , PSIG Calc.	+ 12 = PSIA 640		
Temperature: T = 66 °F	F _t = .9943	F _{pv} (From Tables) 1.028	Gravity .668	F _g .9498	

Initial SIPT (MV) = 990 psig
Final SIPT (MV) = 1014 psig

Packer at 6248

CHOKE VOLUME = $Q \cdot C \cdot P_r \cdot F_t \cdot F_g \cdot F_{pv}$

$$Q = 12.365 \times 290 \times .9943 \times .9498 \times 1.028 = 3481 \text{ MCF/D}$$

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

$$Aof = \left(\frac{5982916}{5573316} \right)^n = 1.0734^{.75} \times 3481 = 1.0545 \times 3481$$

$$Aof = 3671 \text{ MCF/D}$$

TESTED BY W. D. Burson

WITNESSED BY _____

Lewis D. Galloway
L. D. Galloway

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE **February 16, 1960**

Operator El Paso Natural Gas	Lease Rincon Unit No. 125 (M)
Location 9908, 1650W; 26-27-6	County Rio Arriba State New Mexico
Formation Mesa Verde	Prod. Blanco
Casing: Diameter 7 Set At: Feet 7368	Tubing: Diameter 1-1/4 Set At: Feet 5527
Pay Zone: From 5424 To 5528	Total Depth c/o 7650 Shut In 1/16/60
Stimulation Method Sand Water Frac.	Flow Through Casing X Flow Through Tubing

Choke Size, Inche .75 Choke Constant 12.365	9-5/8" at 3421
Shut-In Pressure, PSIG (MV) 1119 PSIG 1131 Days 31	Shut-In Pressure, Tubing PSIG (MV) 1099 PSIG 1111
Flowing Pressure, PSIG (MV Cag) 122 PSIG 134	Working Pressure, PSIG (MV Tbg.) 146 PSIG 158
Temperature 58 F 1.0019 .75	App. Fract. Index Gravity 1.015 .708 .9225

Initial SIPT (D) = 2571 psig
Final SIPT (D) = 2579 psig

Packer at 6248

CHOKE VOLUME $C \times R \times E_1 \times E_2 \times E_3$

$$12.365 \times 134 \times 1.0019 \times .9225 \times 1.015$$

1554

MCF/D

OPEN FLOW $A_{SI} = \left(\frac{P_c^2}{P_i^2 - P_w^2} \right)^n$

$A_{SI} = \left(\frac{1279161}{1254197} \right)^n$

$$1.0199^{.75} \times 1554 = 1.0149 \times 1554$$

$A_{SI} = 1577$

MCF/D

TESTED BY **W. D. Dawson**

WITNESSED BY

Lewis D. Galloway
L. D. Galloway