

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

OIL CONSERVATION COMMISSION
BOX 871
SANTA FE, NEW MEXICO

DATE 12-7-60

RE: Proposed NSP _____

Proposed NSL _____

Proposed NFO _____

Proposed DC ✓

Gentlemen:

I have examined the application dated 11-30-60
for the EPNG SJU 29-6 #35 (MD) M-15-29-6
Operator Lease and Well No. S-T-R

and my recommendations are as follows:

Approve

Yours very truly,

OIL CONSERVATION COMMISSION

A. R. Hendrick

NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

7-3-58

APPLICATION FOR DUAL COMPLETION

Field Name Blanco Mesa Verde & Wildcat Dakota		County Rio Arriba	Date November 30, 1960
Operator El Paso Natural Gas Company		Lease San Juan 29-6 Unit	Well No. 35 (MD)
Location of Well M	Unit 15	Township 39N	Range 6W

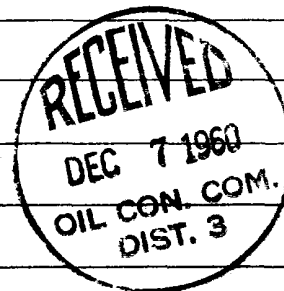
1. Has the New Mexico Oil Conservation Commission heretofore authorized the dual completion of a well in these same pools or in the same zones within one mile of the subject well? YES _____ NO X
2. If answer is yes, identify one such instance: Order No. _____; Operator, Lease, and Well No.:

3. The following facts are submitted:	Upper Zone	Lower Zone
a. Name of reservoir	Mesa Verde	Dakota
b. Top and Bottom of Pay Section (Perforations)	5180-5218 (Cliff House) 5564-5662 (Point Lookout)	7734 - 7790
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.



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'g. 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, H. E. McAnally, being first duly sworn upon my
oath depose and say as follows:

I am an employee of El Paso Natural Gas Co., and
that on October 7, 1960, I was called to the location of the
El Paso Natural Gas Company San Juan 29-6 Unit No. 35 (MD) Well
located in the SWSW/4 of Section 15, Township 29 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 7150 feet in accordance with the usual
practices and customs of the industry.

H. E. McAnally

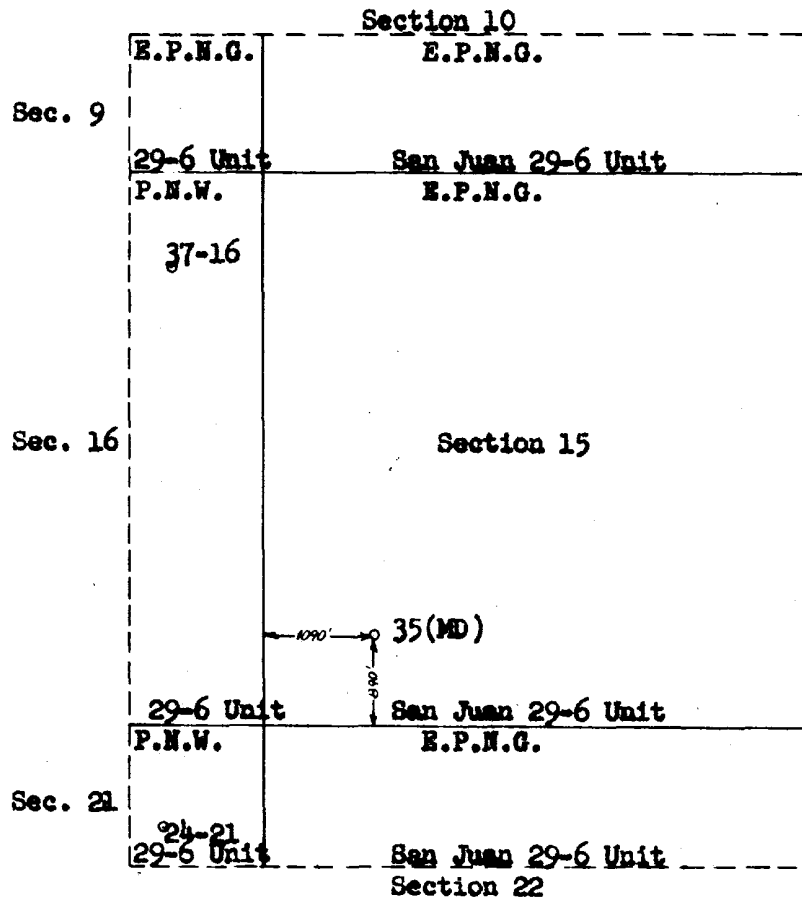
Subscribed and sworn to before me this 30th day of November,
1960.

Mrs. G. L. Lisco
Notary Public in and for San Juan
County, New Mexico

My commission expires October 5, 1964.

Plat Showing location of Dually Completed
El Paso Natural Gas Co. San Juan 29-6 Unit No. 35 (MD)
and Offset Acreage

T-29-N
R-6-W



EL PASO NATURAL GAS COMPANY
EL PASO, TEXAS

SCALE

DATE

No.

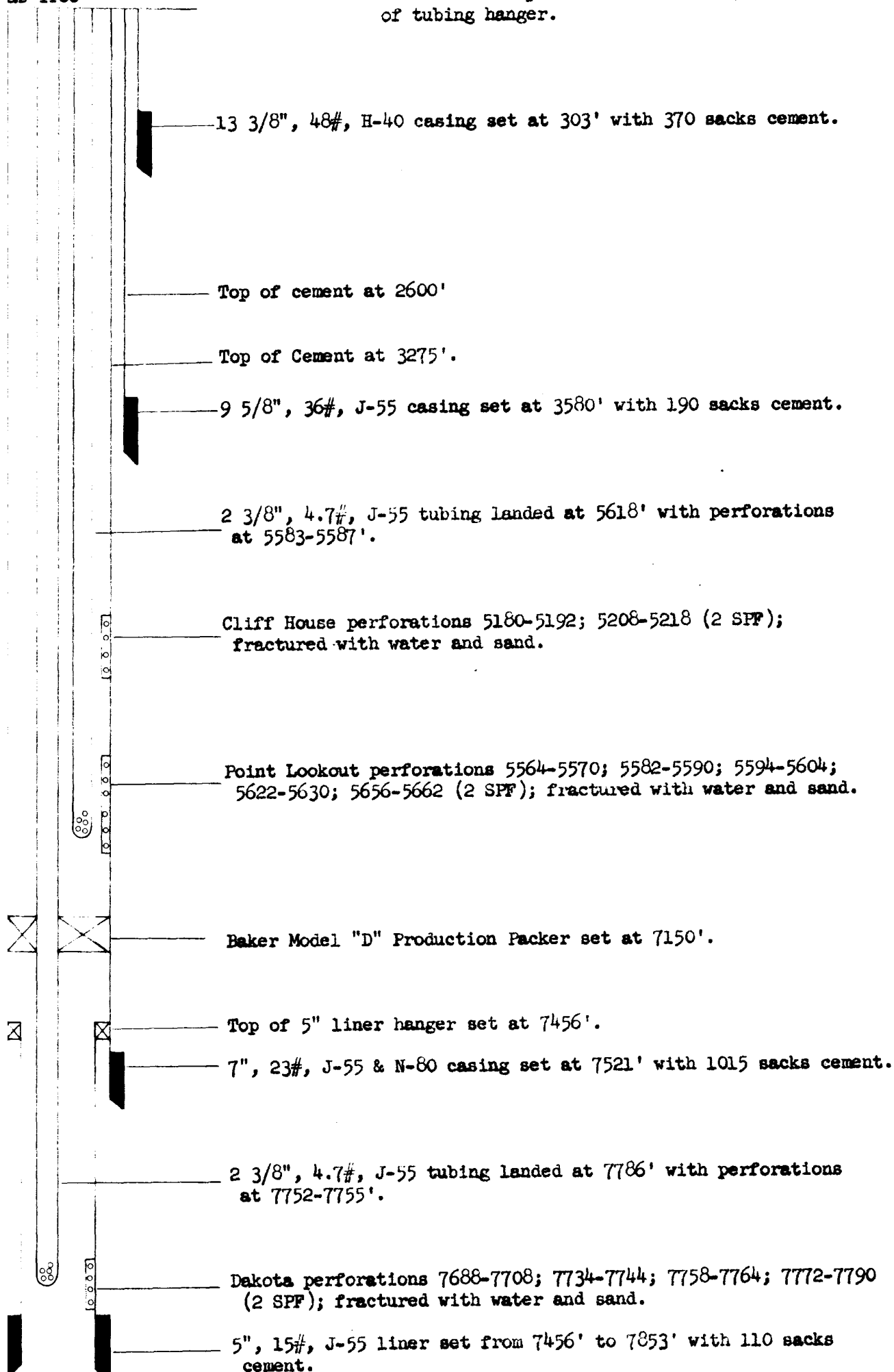
DRAWN BY

CHECKED BY

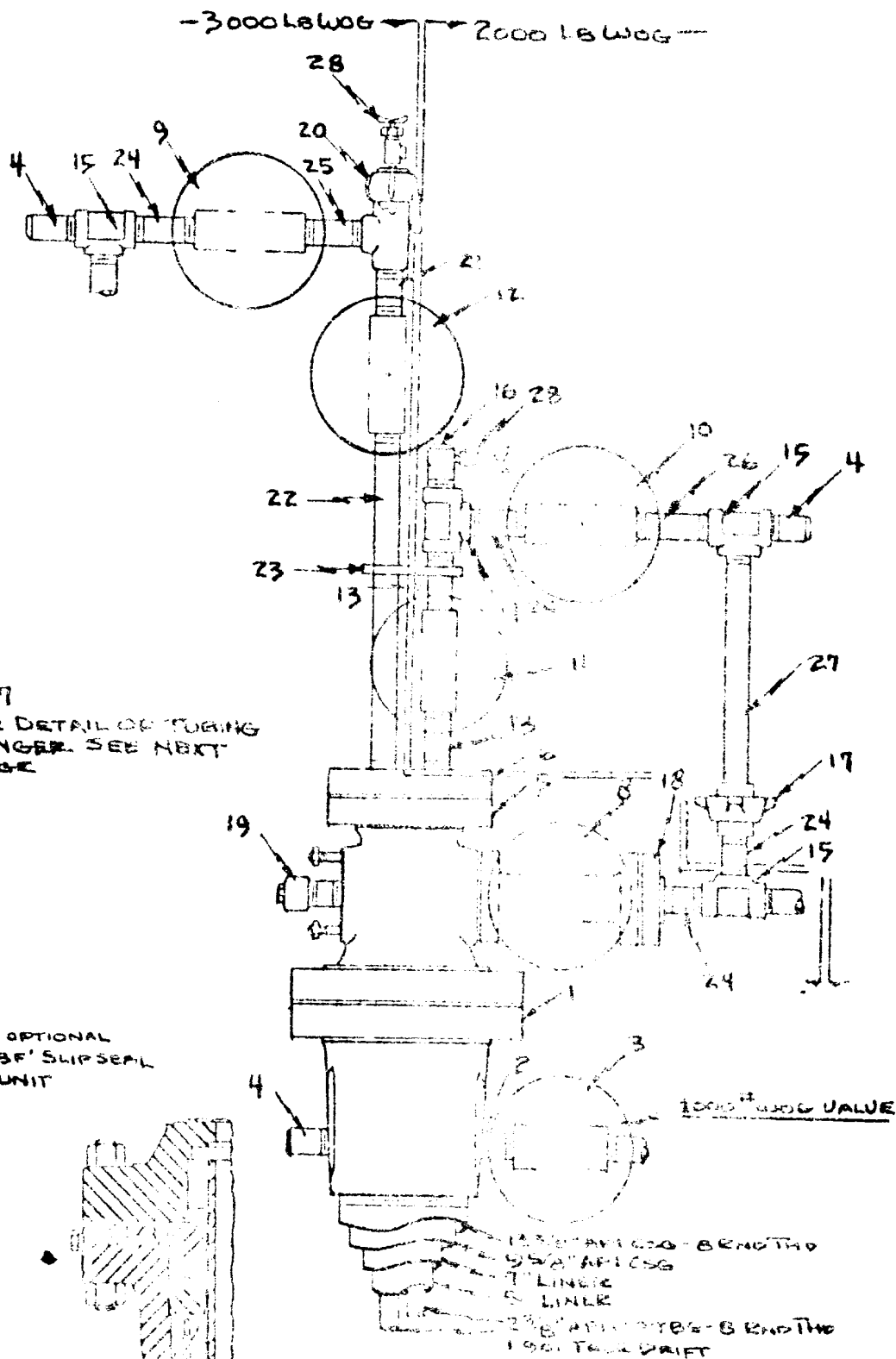
Schematic Diagram of Dually Completed
 El Paso Natural Gas Co. San Juan 29-6 Unit No. 35 (MD)
 SW/4 Section 15, T-29-N, R-6-W

al String
 as Tree

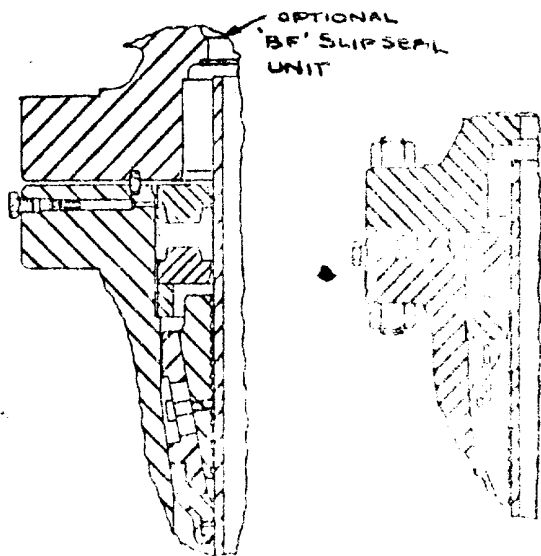
Zero reference point 10.0' above top flange
 of tubing hanger.



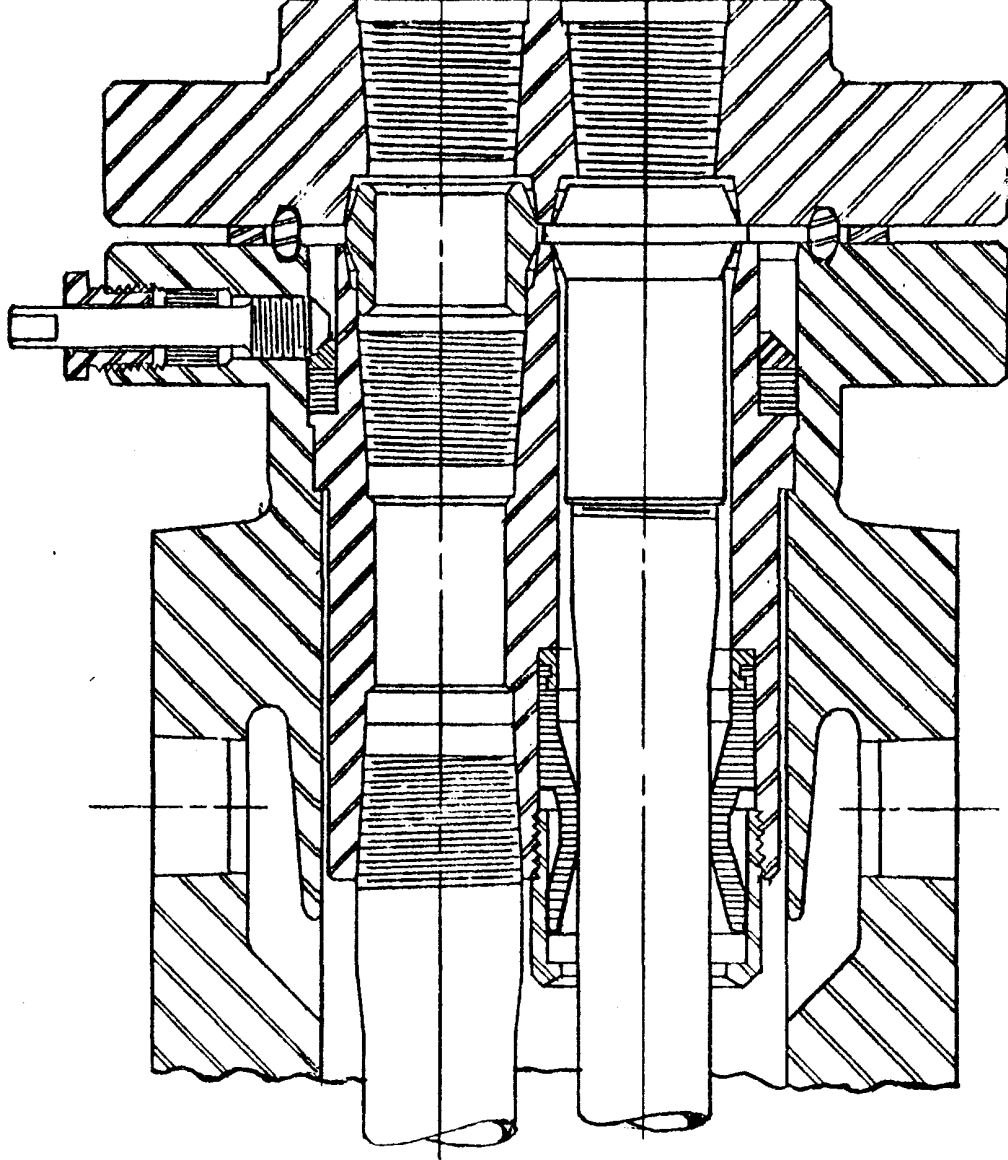
T.D. 7862'



No 7
 FOR DETAIL OF TUBING
 HANGER SEE NEXT
 PAGE



THE NATIONAL SUPPLY CO. 1001 SAUNDERS DRIVE EL PASO, TEXAS	
EL PASO NATURAL GAS CO.	
ORDER NO. QUANTITY PRICE	35689



EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE November 5, 1960

Operator El Paso Natural Gas Company	Lease San Juan 29-6 No. 35 (MV)
Location 890'S, 1090'W, 15-29N-6W	County Rio Arriba State New Mexico
Formation Mesa Verde	Pool Blanco MV
Casing Diameter 7" Set At Feet 7521	Tubing Diameter 2" Hydril Set At Feet 5605
Pay Zone From 5564 To 5662	Total Depth c/o 7815
Stimulation Method Sand/Water Frac.	Flow Through Casing X
	Flow Through Tubing Re Shut-in 10/28/60

Choke Size, Inches .75	Choke Constant: C 12.365	5" Liner from 7456 to 7853
Shut-In Pressure, Casing (MV) PSIG 1076	PSIA 1088	Baker Model "D" Pkr. at 7150
Flowing Pressure: P (Tbg) 367	PSIG 379	Shut-In Pressure, Tubing (MV) PSIG 1079
Temperature: T 72	F .9887	Working Pressure: P _w (Cag) 864
		PSIG 876
		Flow From Tables: 1.035
		Gravity .650
		F _g .9608

Initial SIPT (DK) = 2746 psig

Final SIPT (DK) = 2760 psig

CHOKE VOLUME $Q = C \times P_c \times F_c \times F_g \times F_{gv}$

$$Q = (12.365)(379)(.9887)(.9608)(1.035)$$

4608 MCF/D

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

$$A_{of} = \left(\frac{1190281}{422905} \right)^n$$

$$(2.8145)^{.75}(4508) = (2.1720)(4608)$$

A_{of} 10,009

MCF/D

TESTED BY **D. E. Mortensen**

WITNESSED BY

Calculated by **W. D. Dawson**

Checked by **T. B. Grant**

Lewis D. Galloway
Lewis D. Galloway

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUEL COMPLETION

DATE October 21, 1960

Operator: El Paso Natural Gas Company	Lease: San Juan 29-6 No. 35 (DK)
Location: 890'S, 1090'W, 15-29N-6W	County: Rio Arriba State: New Mexico
Formation: Dakota	Pool: Undesignated
Casing: Diameter 7" Set At: Feet 7521	Tubing: Diameter 2" Set At: Feet 7774
Pay Zone: From 7688 To 7790	Total Depth: c/o 7815 Shut In 10-7-60
Stimulation Method: Sand/Water Frac.	Flow Through Casing X Flow Through Tubing X

Choke Size, Inches 0.75	Choke Constant: C 12.365	5" Liner from 7456 to 7853
Shut-In Pressure, Casing (MV) PSIG 1034	PSIA 1046	Baker Model "D" Pkr. at 7150
Days Shut-In 14	Working Pressure: Pw PSIG 2536	Shut-In Pressure, Tubing (DK) PSIG 2548
Flowing Pressure: P PSIG 242	PSIA 254	Working Pressure: Pw PSIG Calc. 567
Temperature: T 66 F	Fr. .9943	Eqv (From Tables) 1.018
	0.75	Gravity .585 Fg 1.012

Initial SIPT (MV) = 1037 psig

Final SIPC (MV) = 1038 psig

CHOKE VOLUME $Q = C \times P_r \times F_r \times F_g \times F_{fv}$

$$Q = (12.365)(254)(.9943)(1.012)(1.018) = 3217 \text{ MCF/D}$$

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

$$Aof = \left(\frac{6,492,304}{6,170,815} \right)^n (1.0520)^{.75} (3217) = (1.0388)(3217)$$

$$Aof = 3342 \text{ MCF/D}$$

TESTED BY R. L. Nickell, Jr.

WITNESSED BY W. B. Smith

Checked by T. B. Grant

Lewis D. Galloway
Lewis D. Galloway