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

DATE 11-4-59

OIL CONSERVATION COMMISSION
BOX 871
SANTA FE, NEW MEXICO

RE: Proposed NSP _____
Proposed NSL _____
Proposed NFO _____
Proposed DC V

Gentlemen:

I have examined the application dated 10-13-59

for the PNW SJU 29-5 #32-29 29-29N-5W
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			County		Date
Blanco Mesa Verde & Wildcat Dakota			Rio Arriba		October 13, 1959
Operator		Lease			Well No.
Pacific Northwest Pipeline Corp.		San Juan 29-5 Unit			32-29-(MD)
Location of Well	Unit	Section	Township		Range
	M	29	29N		5W

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)	5290-5322 (Cliff House) 5622-5724 (Point Lookout)	7775-7799 (Upper Dakota) 7828-7872 (Lower Dakota)
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.

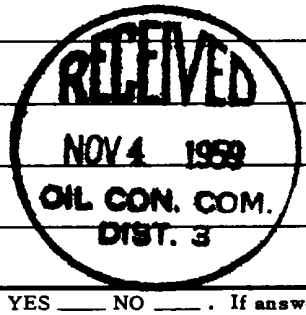
Yes b. Plat showing the location of all wells on applicant's lease, all offset wells on offset leases, and the names and addresses of operators of all leases offsetting applicant's lease.

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.

Pacific Northwest Pipeline Corp. is 29-5 Unit Operator.



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 Agent of the Pacific Northwest Pipeline Corporation. (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.


RECEIVED
NOV 1 1955
OIL CON COM.
DIST.

STATE OF NEW MEXICO)
)
COUNTY OF SAN JUAN)

I, W. D. Whitesides, being first duly sworn upon my oath depose and say as follows:

I am an employee of Halliburton Oil Well Cementing Company, and that on September 4, 1959, I was called to the location of the Pacific Northwest Pipeline Corporation San Juan 29-5 Unit No. 32-29 (MD) Well located in the SESW/4 of Section 29, Township 29 North, Range 5 West, N.M.P.M., for advisory service in connection with installation of a production packer. In my presence, a Howco Type "C" Production Packer was set in this well at 7473 feet in accordance with the usual practices and customs of the industry.

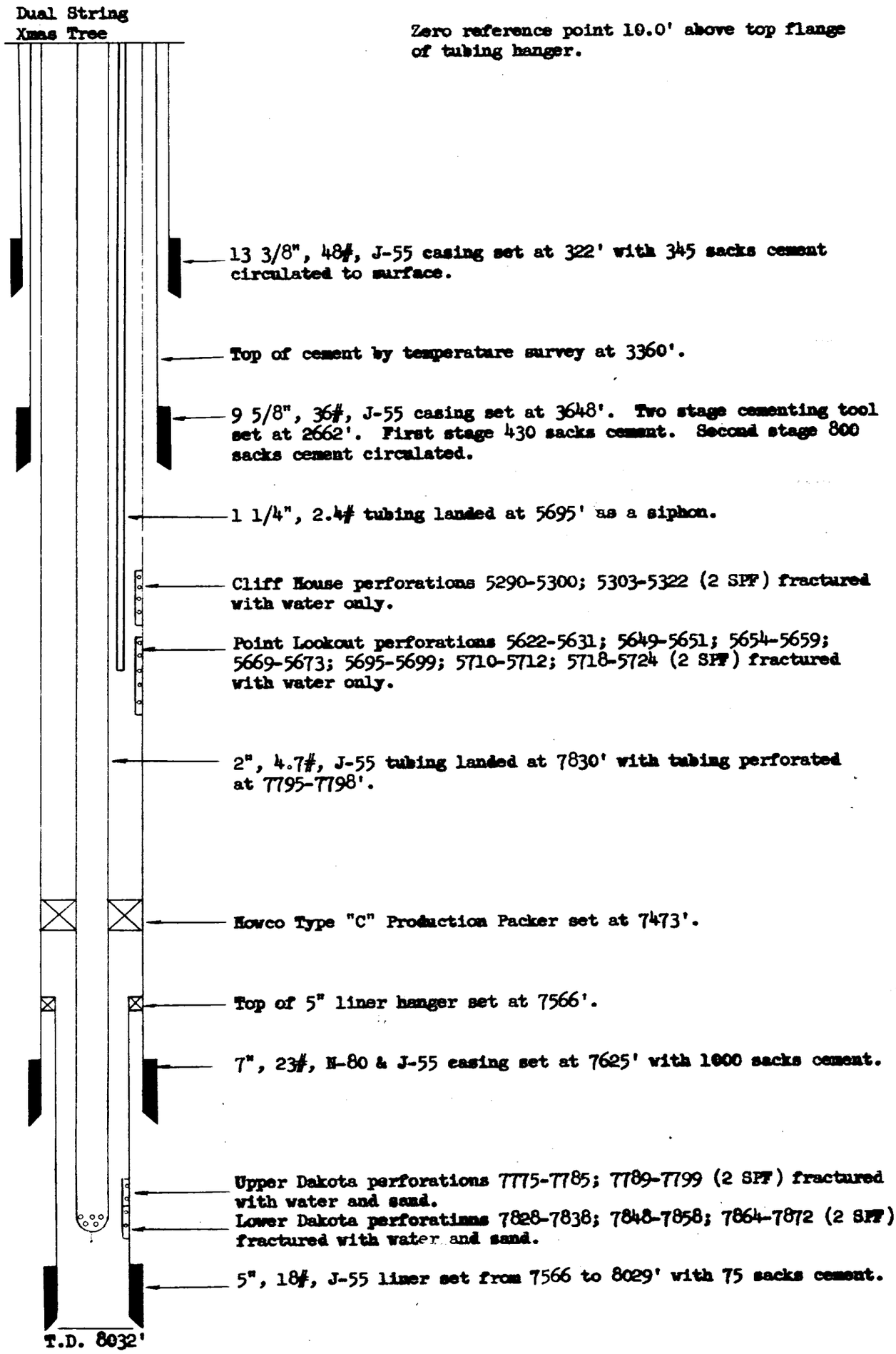
W. D. Whitesides

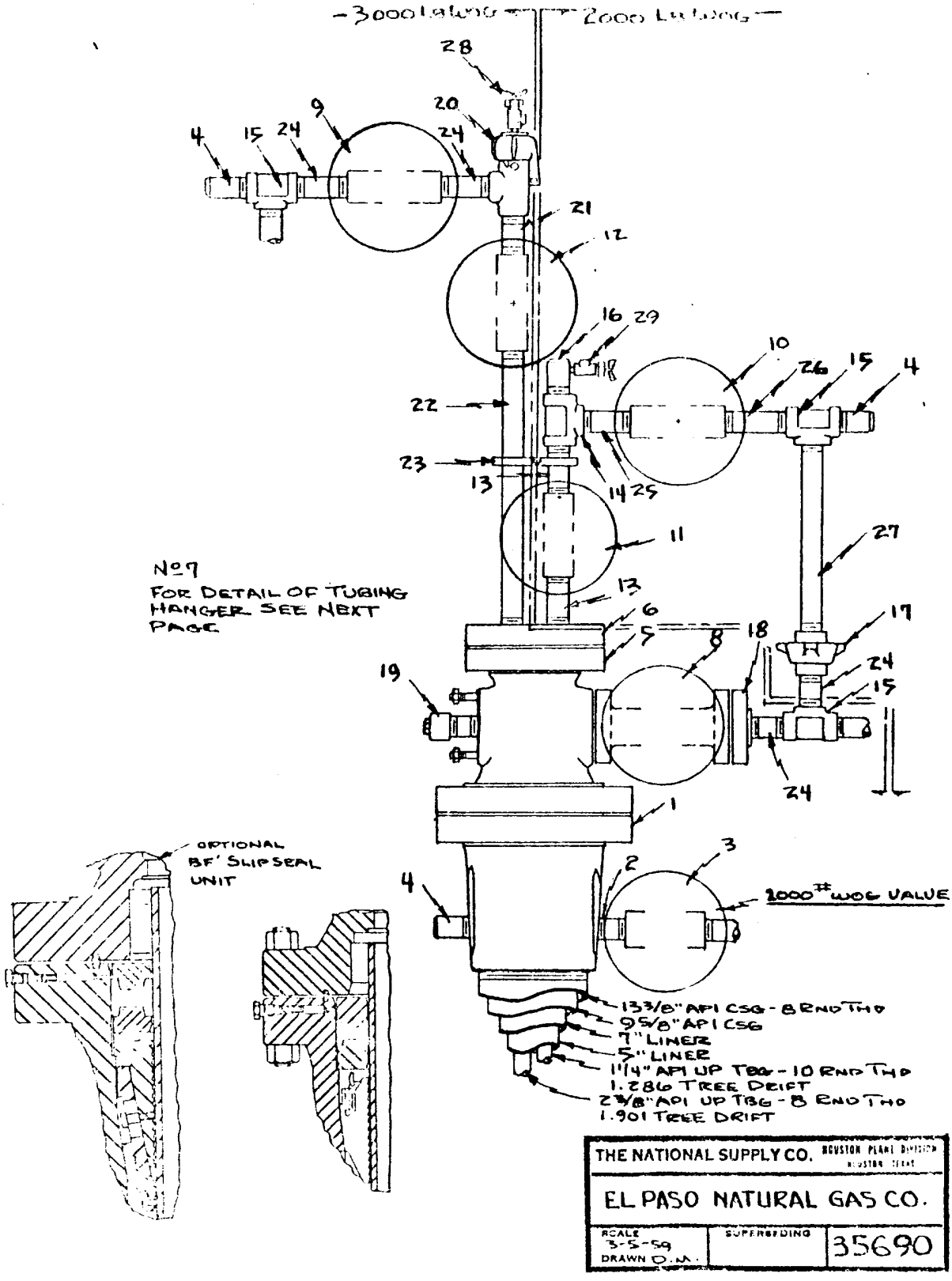
Subscribed and sworn to before me this 14th day of October, 1959.

Notary Public in and for San Juan County, New Mexico

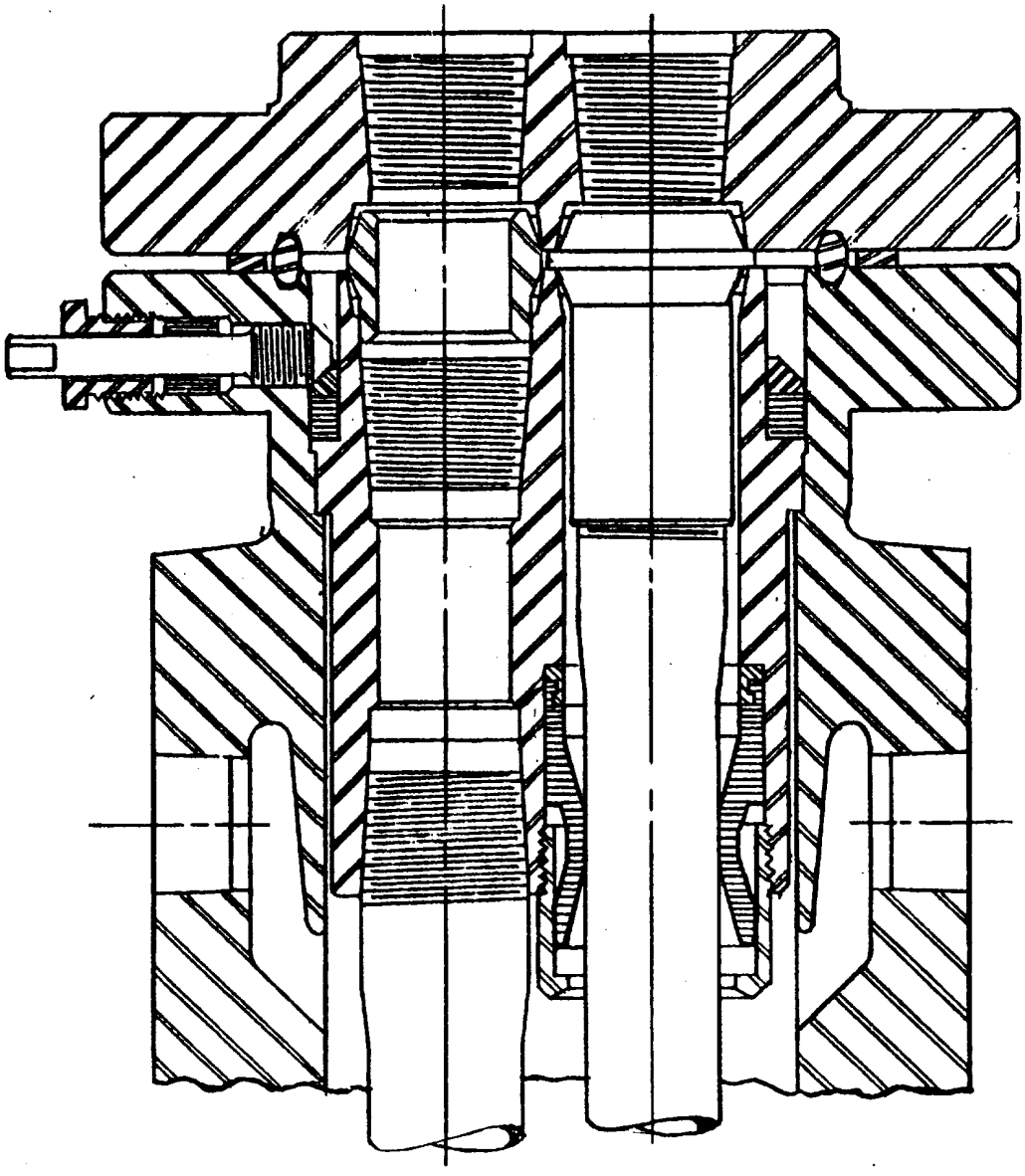
My commission expires February 24, 1960.

SCHEMATIC DIAGRAM OF DUAL COMPLETION
Pacific Northwest Pipeline Corp. San Juan 29-5 Unit No. 32-29 (MD)
SW/4 Section 29, T-29-N, R-5-W

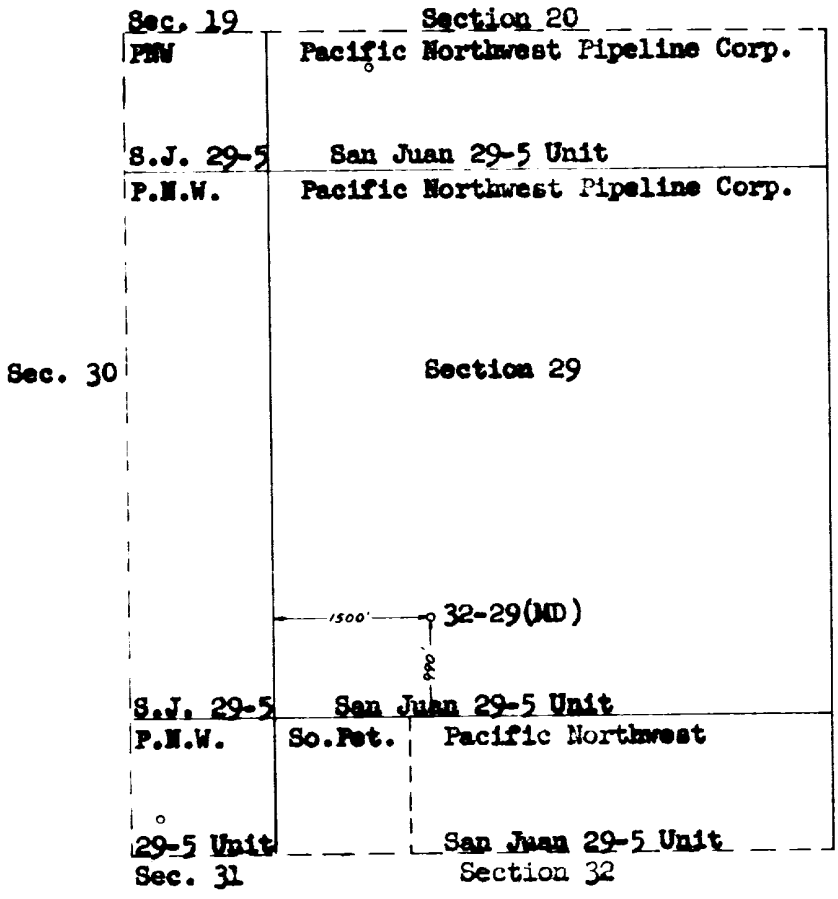




THE NATIONAL SUPPLY CO. HOUSTON PLANT DIVISION HOUSTON TEXAS		
EL PASO NATURAL GAS CO.		
SCALE 3-5-59 DRAWN D.M.	SUPERSEDING	35690



PLAT SHOWING LOCATION OF DUALLY COMPLETED
Pacific Northwest Pipeline Corp. San Juan 29-5 Unit No. 32-29 (MD)
and Offset Acreage



EL PASO NATURAL GAS COMPANY
EL PASO, TEXAS

SCALE	DATE	No.
DRAWN BY	CHECKED BY	

FORM 7-132R (10-56)

FORM 23-75 6-56

EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DUAL COMPLETION DATE **September 14, 1959**

Operator: **El Paso Natural Gas**		Lease: **San Juan 29-5 No. 32-29- (D)**	
Location: **990S, 1500W; 29-29-5**		County: **Rio Arriba**	State: **New Mexico**
Formation: **Dakota**		Pool: **Undesignated**	
Casing: Diameter: **7"**	Set At: Feet: **7625**	Tubing: Diameter: **2"**	Set At: Feet: **7820**
Pay Zone: From: **7775**	To: **7872**	Total Depth: **8030 c/o**	Shut in: **9/5/59**
Stimulation Method: **Sand Water Frac.**		Flow Through Casing:	Flow Through Tubing: **X**

Choke Size, Inches: **.75**	Choke Constant: C: **14.1605**	**5" liner 7566 - 8029**	
Shut-In Pressure, Casing, PSIG: **998 (MV)**	+ 12 = PSIA: **1010** Days Shut-In: **9**	Shut-In Pressure, Tubing PSIG: **2560 (Dak)**	+ 12 = PSIA: **2572**
Flowing Pressure: P PSIG: **202**	+ 12 = PSIA: **214**	Working Pressure: Pw PSIG: **Calc.**	+ 12 = PSIA: **532**
Temperature: T °F: **70**	n = **.75**	Fpv (From Tables): **1.015**	Gravity: **.586**

Initial SIPT (MV) = 994 psig **Packer at 7473**
Final SIPC (MV) = 1005 psig

CHOKE VOLUME = Q = C x P_t x F_t x F_g x F_{pv}

Q = 14.1605 x 214 x .9905 x 1.012 x 1.015 = 3083 MCF D

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

Aof = $\left(\frac{6615184}{6332160} \right)^n$ $1.0446^{.75}$ x 3083 = 1.0332 x 3083

Aof = 3185 MCF D

TESTED BY: **W. D. Dawson**

WITNESSED BY: **W. B. Smith (Phillips)**

L. D. Galloway

L. D. Galloway

by TBG

FORM 23-75 16-54

EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DUAL COMPLETION DATE **September 21, 1959**

Operator: **ElPaso Natural Gas Company**		Lease: **San Juan 29-5 No. 32-29 (MV)**	
Location: **9908, 1500W; 29-29-5**		County: **Rio Arriba**	State: **New Mexico**
Formation: **Mesa Verde**		Pool: **Blanco**	
Casing: Diameter: **7**	Set At: Feet: **7625**	Tubing: Diameter: **1-1/4**	Set At: Feet: **5685**
Pay Zone: From: **5622**	To: **5724**	Total Depth: **8030 c/o 7933**	Shut In: **9/5/59**
Stimulation Method: **Sand Water Frac.**		Flow Through Casing: **X**	Flow Through Tubing:

Choke Size, Inches: **.75**	Choke Constant: C: **14.1605**	**5" liner 7566 - 8029**	
Shut-in Pressure, Casing: PSIG **1045 (MV)** + 12 = PSIA **1057** Days Shut-in **16**		Shut-in Pressure, Tubing: PSIG **1039 (MV)** + 12 = PSIA **1051**	
Flowing Pressure: P: PSIG **355** + 12 = PSIA **367**		Working Pressure: P_w: PSIG **394** + 12 = PSIA **406**	
Temperature: T: °F **68**	n = **.75**	Fpv (From Tables): **1.040**	Gravity: **.680**

Initial SIPT (D) = 2611 psig
Final SIPT (D) = 2629 psig

Packer at 7473

CHOKE VOLUME Q = C x P_t x F_t x F_g x F_{pv}

Q = **14.1605 x 367 x .9924 x .9393 x 1.040** = **5038** MCF D

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

Aof = $\left(\frac{1117249}{952413} \right)^n$ **$1.1730^{.75}$ x 5038 = 1.1270 x 5038**

Aof = **5678** MCF D

TESTED BY **W. D. Dawson**

WITNESSED BY

Lewis D. Galloway

L. D. Galloway