

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

DATE 3-14-60

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 7, 1960
for the EPNG HUEREANO #108(6D) E-1-26N-10W
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
Opened Peak Gallup Ext. & Wildcat Unit	San Juan	March 7, 1960
Location of Well	Section	Range
Unit	Township	(60)

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. 10-040; Operator, Lease, and Well No.:

3. The following facts are submitted:	Upper Zone	Lower Zone
a. Name of reservoir	Gallup	Wildcat
b. Top and Bottom of Pay Section (Perforations)	5099-6021 (Upper Gallup)	6077-6170 (Lower Gallup)
c. Type of production (Oil or Gas)	Oil	Gas
d. Method of Production (Flowing or Artificial Lift)	Flowing	Flowing

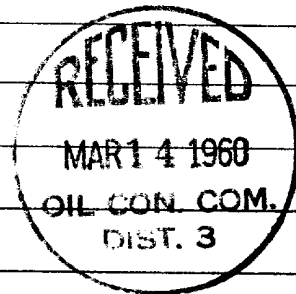
4. The following are attached. (Please mark YES or NO)

- ☒ 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.
- ☒ 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.
- ☐ 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. *
- ☐ 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.

~~San American Petroleum Corp. - Box 407, Farmington, New Mexico~~

ILLEGIBLE



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 7, 1960.

CERTIFICATE: I, the undersigned, state that I am the Division Petroleum Mgr. of the San American Petroleum Corp. (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 December 23, 1959, I was called to the location of the El Paso Natural Gas Company Huerfano Unit No. 108 (GD) Well located in the SWNW/4 of Section 1, Township 26 North, Range 10 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 6280 feet in accordance with the usual practices and customs of the industry.

Mack M. Mahaffey

Subscribed and sworn to before me this 7th day of March, 1960.

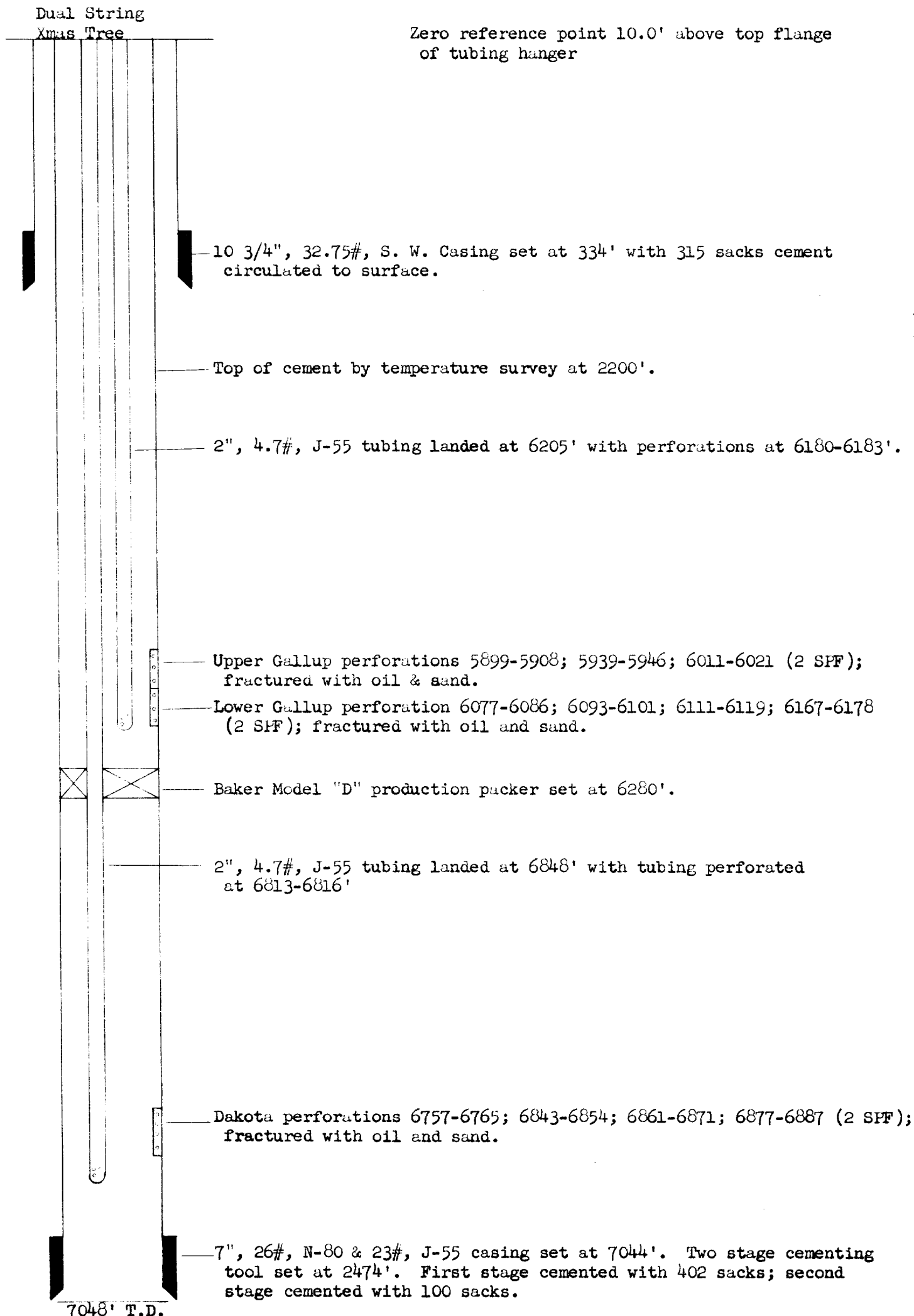
Linda Nye
Notary Public in and for San Juan County,
New Mexico

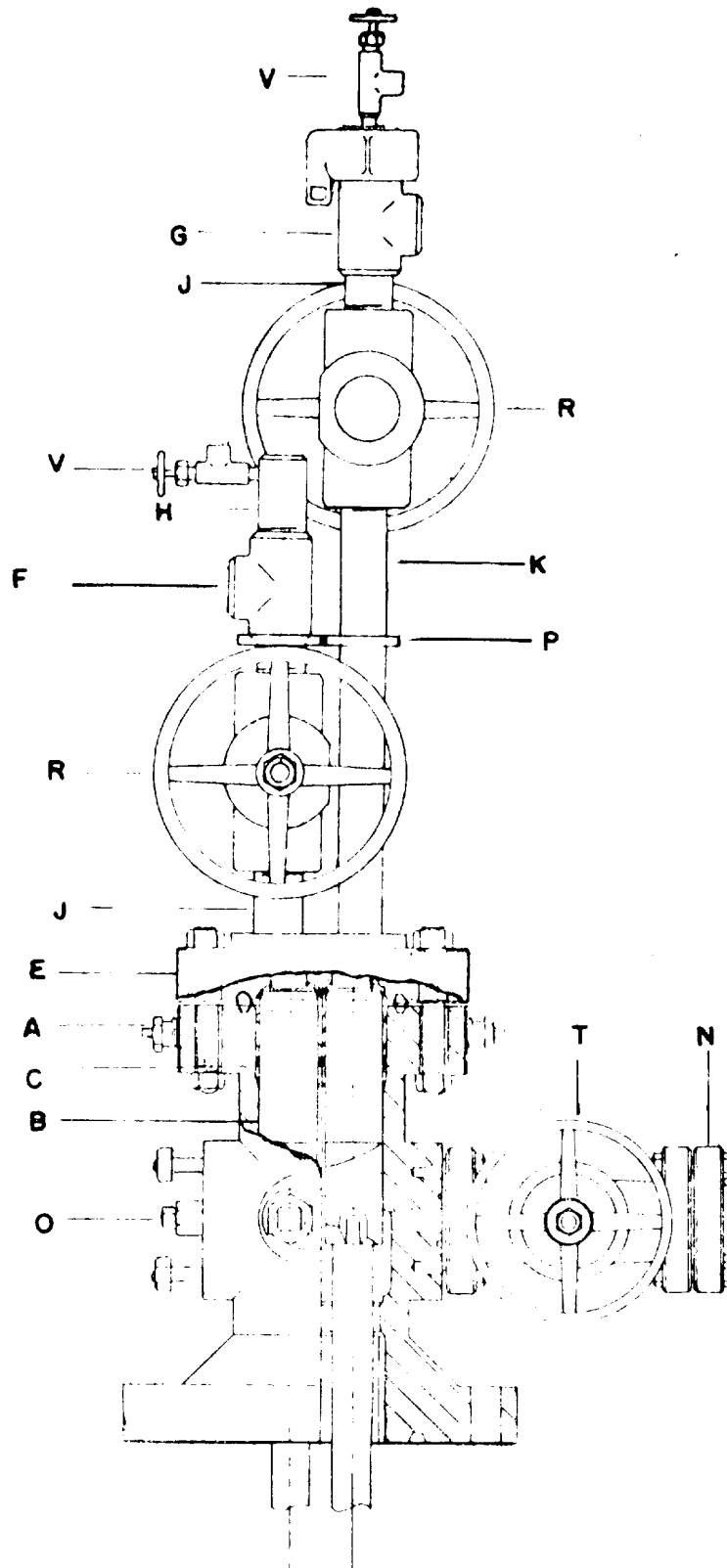
My commission expires September 3, 1962 ~~1960~~

Sec. 35	Section 36	
E.P.N.G.	E.P.N.G.	T-27-N R-10-W
Huer. Unit Pan Amer.	Huerfano Unit El Paso Natural Gas Co.	
E.P.N.G.	108 (GD)	1-3
	Section 1	T-26-N R-10-W
109(GD)		
Huer. Unit	Huerfano Unit	
E.P.N.G.	E.P.N.G. Pan Amer	E.P.N.G.
85	Huerfano Unit	
Sec. 11	Section 12	

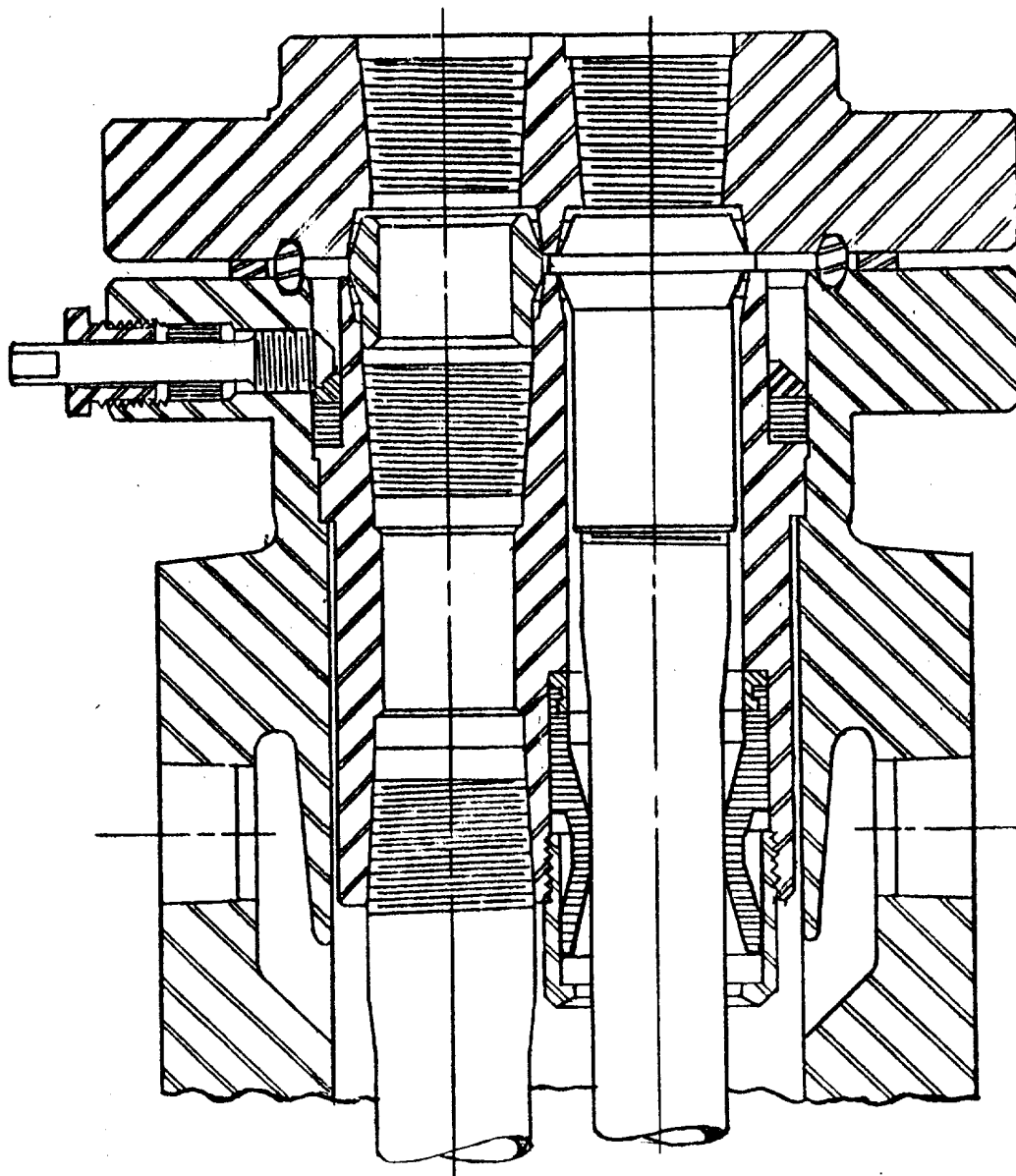
FORM 7-192R (7-54)

SCHEMATIC DIAGRAM OF DUAL COMPLETION
El Paso Natural Gas Co. Huerfano Unit No. 108 (GD)
NW/4 Section 1, T-26-N, R-10-W





CHRISTMAS TREE ASSEMBLY NO. X-1148 - U REV.13			PROPERTY OF OIL CENTER TOOL CO., INC. HOUSTON, TEXAS		
PART NO.	SCALE	PATTERN NO.	DATE 2-24-59	SIZE	FILE NO.
MATERIAL SPEC. FOR EL PASO NATURAL GAS CO			DRN. BY GOC		DWG. NO.
			CHKD. BY		
			APPROV.		



EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE **January 7, 1960**

Operator El Paso Natural Gas		Lease Huerfano Unit No. 108 (D)	
Location 1650N, 1040W; 1-26-10		County San Juan	State New Mexico
Formation Dakota		Pool Undesignated	
Casing: Diameter 7	Set At: Feet 7044	Tubing: Diameter 2	Set At: Feet 6838
Pay Zone: From 6757	To 6887	Total Depth: 7040 c/o 6957	Shut In 12/24/59
Stimulation Method Sand Oil Frac.		Flow Through Casing	Flow Through Tubing X

Orifice Meter 3" Plate, 4" M. R.		Orifice Meter Const. 52.678		Tested through 3/4" variable choke	
Shut-In Pressure, Casing, (G) 1125	PSIG 12 PSIA 1137	Days Shut-In 14	Shut-In Pressure, Tubing (D) 1877	PSIG 12 PSIA 1889	
Flowing Pressure: F (At Meter) 346 ; W.H. 416	PSIG 12 PSIA (At Meter) 358 ; W.H. 428	Working Pressure: P _w Calc.	PSIG 12 PSIA 863		
Temperature: T 77 F	F _r .9840	F _v (From Tables) 1.043	Gravity .734	F _g 1.1672	

Initial SIPT (G) = 888 psig

Baker "K" packer at 6280

Final SIPC (G) = 1142 psig

CHOKE VOLUME $Q_c = C \times P_1 \times F_1 \times F_g \times F_{pv}$

Q = Calculated from Orifice Meter Reading

4562

MCF/D

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

$$A_{of} = \left(\frac{3568321}{2823552} \right)^n$$

$$1.2637^{.75} \times 4562 = 1.1918 \times 4562$$

A_{of} = 5437 MCF/DTESTED BY **W. D. Dawson, J. Goodwin, D. Mortensen**

WITNESSED BY

Lewis D. Galloway
L. D. Galloway

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE **January 21, 1960**

Operator El Paso Natural Gas		Lease Huerfano Unit No. 108 (G)	
Location 1650N, 1040W; 1-26-10		County San Juan	State New Mexico
Formation Gallup		Pool Undesignated	
Casing Diameter 7	Set At Feet 7044	Tubing Diameter 2	Set At Feet 6205
Pay Zone From 5899	To 6178	Total Depth 7040 c/o 6957	Shut-In Re: SI 1/14/60
Stimulation Method Sand Oil Frac.		Flow Through Casing X	

XXXXXXXXXX		XXXXXXXXXX	
2.5 Orifice 4" MR		M.R. Const. 33.293	
Flowing Pressure, P _w (G) 1142	PSIG 1154	Shut-In Pressure, P _{sh} (G) 852	PSIG 864
Flowing Pressure, P _w W.H. 123 M.R. 86	PSIG 1154	Working Pressure, P _w (G Csg.) 446	PSIG 458
Friction Loss 80	.9813	Friction Loss 1.008	Gravity .698
	.75		1.1969

Initial SIPT (D) = 1907 psig

Packer at 6280

Final SIPT (D) = 1922 psig

CHOKE VOLUME $Q = C \times P_1 \times F_1 \times F_2 \times F_3$

Q Calculated from Orifice Meter Rdg.

1079

MCF/D

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

Produced 32.4 Bbls of oil in a 3 hr. test.

$$A_{of} = \left(\frac{1331716}{1121952} \right)^n$$

$$1.1869^{.75} \times 1079 = 1.1370 \times 1079$$

A_{of}

1227

MCF/D

TESTED BY **W. D. Dawson, S.V. Roberts, J. Goodwin**

WITNESSED BY

Lewis D. Galloway
L. D. Galloway