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

DATE 1-19-60

OIL CONSERVATION COMMISSION
BOX 871
SANTA FE, NEW MEXICO

RE: Proposed NSP _____

Proposed NSL _____

Proposed NFO _____

Proposed DC ✓

Gentlemen:

I have examined the application dated 1-14-60
for the EPNG Overland #110 I-3-26-10
Operator Lease and Well No. S-T-R

and my recommendations are as follows:

Opinion. This well is within one mile of Angel
Peak Gallup + Dakota pools in which similar
Duals have been approved

Yours very truly,

Emory C. Clunif
OIL CONSERVATION COMMISSION

NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

7-3-58

APPLICATION FOR DUAL COMPLETION

Field Name Angel Peak Gallup Ext. - Angel Peak Dakota		County San Juan	Date January 14, 1960
Operator El Paso Natural Gas Company		Lease Huerfano Unit	Well No. 110 (GD)
Location of Well I	Unit 3	Township 26N	Range 10W

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	Gallup	Dakota
b. Top and Bottom of Pay Section (Perforations)	5917-6040 (Upper Gallup) 6091-6220 (Lower Gallup)	6791-6915
c. Type of production (Oil or Gas)	Oil	Gas
d. Method of Production (Flowing or Artificial Lift)	Pumping	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.
- Yes 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.

W. R. Weaver, c/o A. N. Brown, Suite 337 - 1740 Broadway, 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 _____.

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 perforation unit in either or both of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

Max 2

January 8, 1960

Mr. A. M. Brown
Suite 337
1740 Broadway
Denver 2, Colorado

Re: Huerfano #110 Well

Dear Mr. Brown:

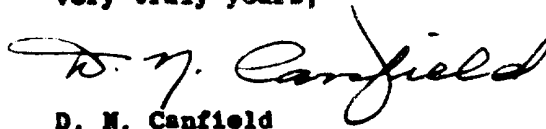
El Paso Natural Gas Company proposes a dual completion well to be located in the E/2 of Section 3, Township 26 North, Range 10 West, San Juan County, New Mexico. This well will be dually completed in both the Gallup and Dakota formations.

Inasmuch as you are the operator of acreage which adjoins the drilling block, and if you have no objections to this proposed dual completion, we would appreciate your signing the attached copy of this letter and returning same to this office.

In the event our records are incorrect and you are not the operator of the acreage described above, it would be appreciated if you could advise us as to the correct owner.

Your prompt consideration of this matter will be greatly appreciated.

Very truly yours,



D. N. Canfield
Division Landman
Land Department

DNC:MC:plr

The above mentioned dual completion well is hereby approved.

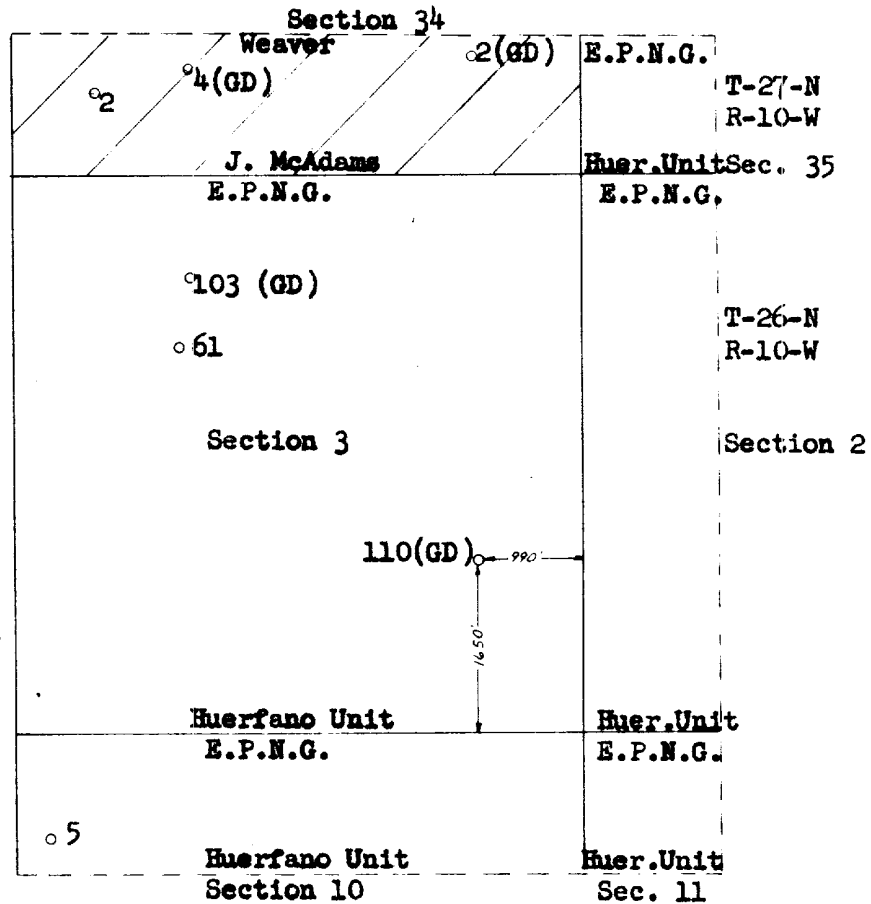
A. M. BROWN



1/11, 1960.

2

PLAT SHOWING LOCATION OF DUALY COMPLETED
El Paso Natural Gas Co. Huerfano Unit No. 110 (GD)
and Offset Acreage



Not Committed

EL PASO NATURAL GAS COMPANY
 EL PASO, TEXAS

STATE OF NEW MEXICO)
COUNTY OF SAN JUAN)



I, A. T. Fry, being first duly sworn upon my oath depose
and say as follows:

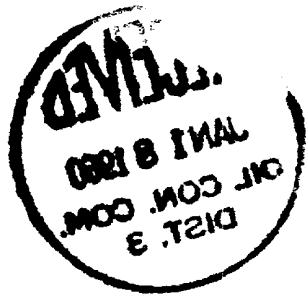
I am an employee of Guiberson Corporation, and that on
December 11, 1959, I was called to the location of the El Paso Natural
Gas Company Huerfano Unit No. 110 (GD) Well located in the NESE/4 of
Section 3, Township 26 North, Range 10 West, N.M.P.M., for advisory service
in connection with installation of a production packer. In my presence
a Guiberson Model "AG" Production Packer was set in this well at 6300
feet in accordance with the usual practices and customs of the industry.

A. T. Fry

Subscribed and sworn to before me this 15th day of January,
1960.

Paul MacLachlan
Notary Public in and for San Juan County,
New Mexico

My commission expires February 24, 1960.



OPEN FLOW TEST DATA

CORRECTED COPY

DUAL COMPLETION

DATE December 22, 1959

Operator El Paso Natural Gas		Lease Huerfano Unit No. 110 (D)	
Location 1650S, 990E; 3-26-10		County San Juan	State New Mexico
Formation Dakota		Pool Undesignated	
Casing Diameter 7	Set At: Feet 7096	Tubing: Diameter 2	Set At: Feet 6935
Pay Zone From 6791	To 6915	Total Depth 7105 c/o 7027	Shut In 12/11/59
Stimulation Method Sand Oil Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches 3" plate - 4" M.R.		Choke Constant: C Meter Const. 52.678	
Shut-In Pressure, Casing (G) 997	PSIG - 12 - PSIA 1009	Days Shut-In 11	Shut-In Pressure, Tubing (D) 1632
Flowing Pressure, P 286	PSIG - 12 - PSIA 298	Working Pressure, Pw Calc.	PSIG - 12 - PSIA 458
Temperature 80	Fv .9813	Fv (From Tables) 1.0256	Gravity .734
	Fg .75		Fg .9066

Initial SIFT (G) = 112 psig

Guib "AG" packer at 6300

Final SIPC (G) = 1011 psig

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

Q Calculated from Orifice Meter reading

2110

MCF D

$$Q_{OF} = Q \left(\frac{P_c^2}{P_c^2 - P_w^2} \right)^n$$

$$Q_{OF} = \left(\frac{2702736}{2492972} \right)^n$$

$$1.0841^{.75} \times 2110 = 1.0624 \times 2110$$

CORRECTED COPY

Q_{OF}

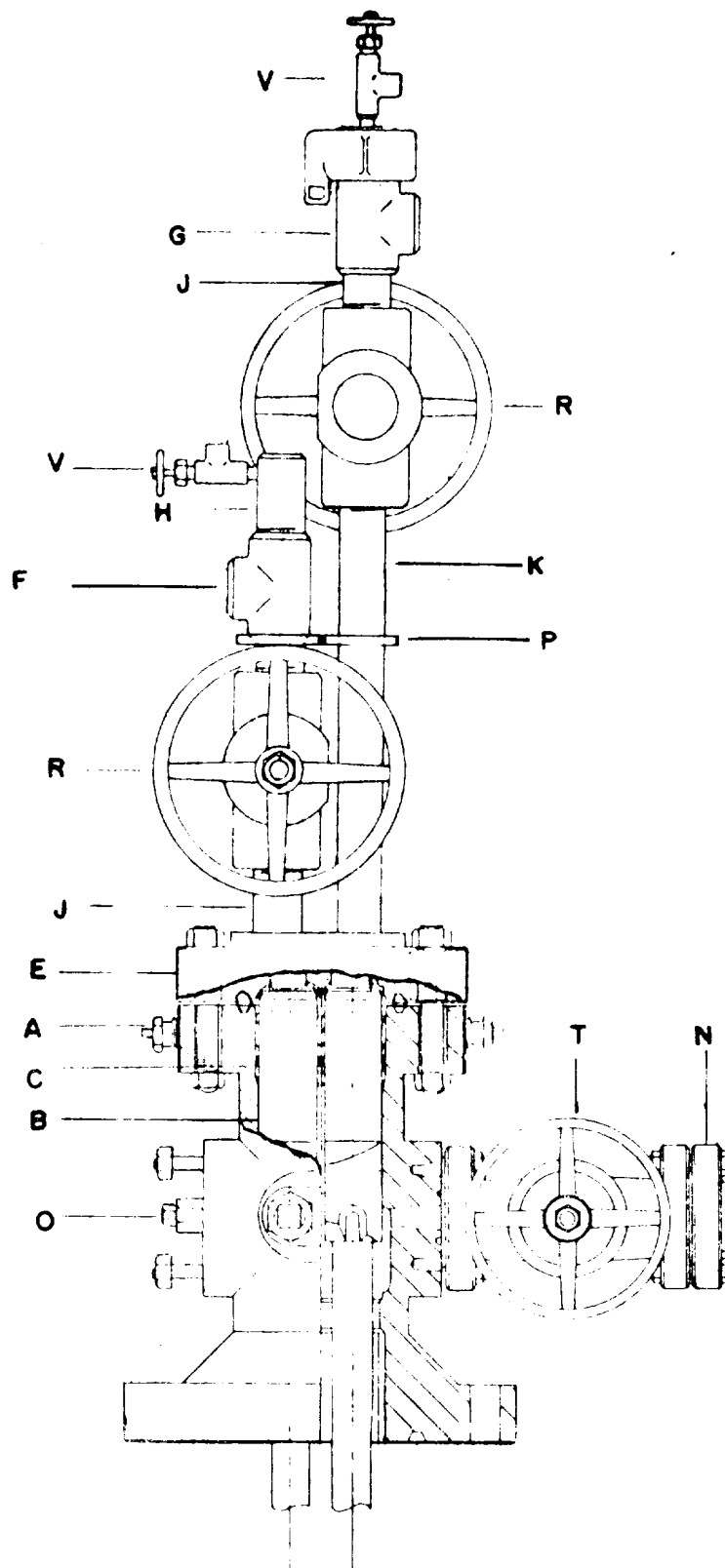
2242

MCF D

TESTED BY W. D. Dawson, S. V. Roberts, T. B. Grant

WITNESSED BY

Lewis D. Galloway
L. D. Galloway



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			DES. BY GOC CHK. BY APPR.		DWG. NO.

EL PASO NATURAL GAS COMPANY

OIL WELL TEST

To: A. J. Dudenhoeffer Date: January 5, 1960
From: Production Engineering Place: Farmington, New Mexico

Subject: Production test for El Paso Natural Gas Company well
Huerfano Unit No. 110, Gallup, SE 3-26-10, San Juan
County, New Mexico.

Tested By: K. C. McBride

Location: Sec. 3, T. 26, R. 10

Shut-In Pressure SIPC 997 psig; (Shut-In 22 days)
SIPT 125 psig

Time and Date Test Started . . . 2:00 A.M., Dec. 30, 1959

Time and Date Test Ended10:00 A.M., Dec. 31, 1959

Total Production: 20 hours. . . . Gas 321 MCF
Oil 176 Bbls.
Water 0 Bbls.

Gas-Oil Ratio 1824 Cubic Feet per Bbl.

Producing Method Pumping

Producing through 2" Choke Setting 1"

Flowing Pressure _____ psig Tubing; _____ psig Casing

SPM 15 Length of Stroke 74"

Producing formation Gallup

Field Angels Peak Gallup


K. C. McBride
Production Engineer

KCM/nb

cc: Regular I.P. Gas Test Distribution.

SCHEMATIC DIAGRAM OF DUAL COMPLETION
El Paso Natural Gas Co. Huerfano Unit No. 110 (GD)
SE/4 Section 3, T-26-N, R-10-W

