

CHRISTMAS TREE ASSEMBLY			PROPERTY OF		
NO. X-1148-U REV.13			OIL CENTER TOOL CO., INC.		
			HOUSTON, TEXAS		
PART NO.	SCALE	PATTERN NO.	DATE 2-24-58	SIZE	FILE NO.
MATERIAL SPEC.			DRN. BY GOC		
FOR EL PASO NATURAL GAS CO			CHK. BY		DWG. NO.
			APPRVD.		

NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

7-3-58

APPLICATION FOR DUAL COMPLETION

Field Name Wildcat Gallup & Dakota			County San Juan		Date November 23, 1959
Operator El Paso Natural Gas Company		Lease Huerfano Unit			Well No. 111 (OD)
Location of Well	Unit F	Section 20	Township 26N		Range 9W

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)	5603-5727 (Upper Gallup) 5799-5894 (Lower Gallup)	6455-6471 (Upper Dakota) 6548-6578 (Middle Dakota) 6628-6723 (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 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.

El Paso Natural Gas Co is Huerfano 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 Division Petroleum Engr. 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.

OPEN FLOW TEST DATA

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DUAL COMPLETION

DATE: October 27, 1959

El Paso Natural Gas	Huerfano No. 111 (D)
1550N, 1550W; 20-26-9	San Juan New Mexico
Dakota	Undesignated
7 6776	2 6720
6548 6723	6788 c/o 6770
Sand Water Frac.	Shut In: 9/5/59 X

.75	12.365		
1154 (Gal)	1166	53	1944 (Dak) 1956
285	297		Calc. 631
66	.75	1.037	.740

Initial SIPT (G) = 852 psig
Final SIPC (G) = 1175 psig

Packer at 5998

$$12.365 \times 297 \times .9943 \times .9005 \times 1.037$$

3410

MCF D

Note: Made water throughout test with intermittent slugs of oil.

3825936
3427775

$$1.1161^{.75} \times 3410 = 1.0858 \times 3410$$

3703

J.B. Goodwin & T. B. Grant

Original Signed
Lewis D. Galloway

L. D. Galloway

OPEN FLOW TEST DATA

5

DUAL COMPLETION

DATE November 2, 1959

Operator El Paso Natural Gas Company		Lease Huerfano No. 111 (G)	
Location 1550N, 1550W; 20-26-9		County San Juan	State New Mexico
Formation Gallup		Pool Undesignated	
Casing: Diameter 7	Set At: Feet 6776	Tubing: Diameter 2	Set At: Feet 5921
Perforation From 5603	To 5894	Total Depth 6788 c/o 6770	Shut In: 10/7/59
Stimulation Method Sand Oil Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .75	Choke Constant 12.365	Shut-In Pressure, Casing, PSIG 1169 (G)	PSIA 1181	Days Shut-In 26	Shut-In Pressure, Tubing, PSIG 897 (G)	PSIA 909
Flowing Pressure, P, PSIG 163	PSIA 175	Working Pressure, Pw, PSIG 465	PSIA 477	Fpv (From Tables)	Gravity	.798
Temperature, T, F 63	F .75					

Initial SIPT (Dak) = 1440 psig Packer at 5998
 Final SIPT (Dak) = 1463 psig

CHOKE VOLUME CO $C \times R_1 \times F_1 \times F_2 \times F_{pv}$

$C = 12.365 \times 175 \times .9971 \times .8687 \times 1.026$ 1923 MCF D

OPEN FLOW $A_{of} = Q \left(\frac{D_1^4}{D_2^4} \right)^n$

Note: Unloaded heavy stream of oil for 15 minutes then heavy fog for remainder of test.

$A_{of} = \left(\frac{1394761}{1167232} \right)^n$ $1.1949^{.75} \times 1923 = 1.1428 \times 1923$

$A_{of} = 2198$ MCF D

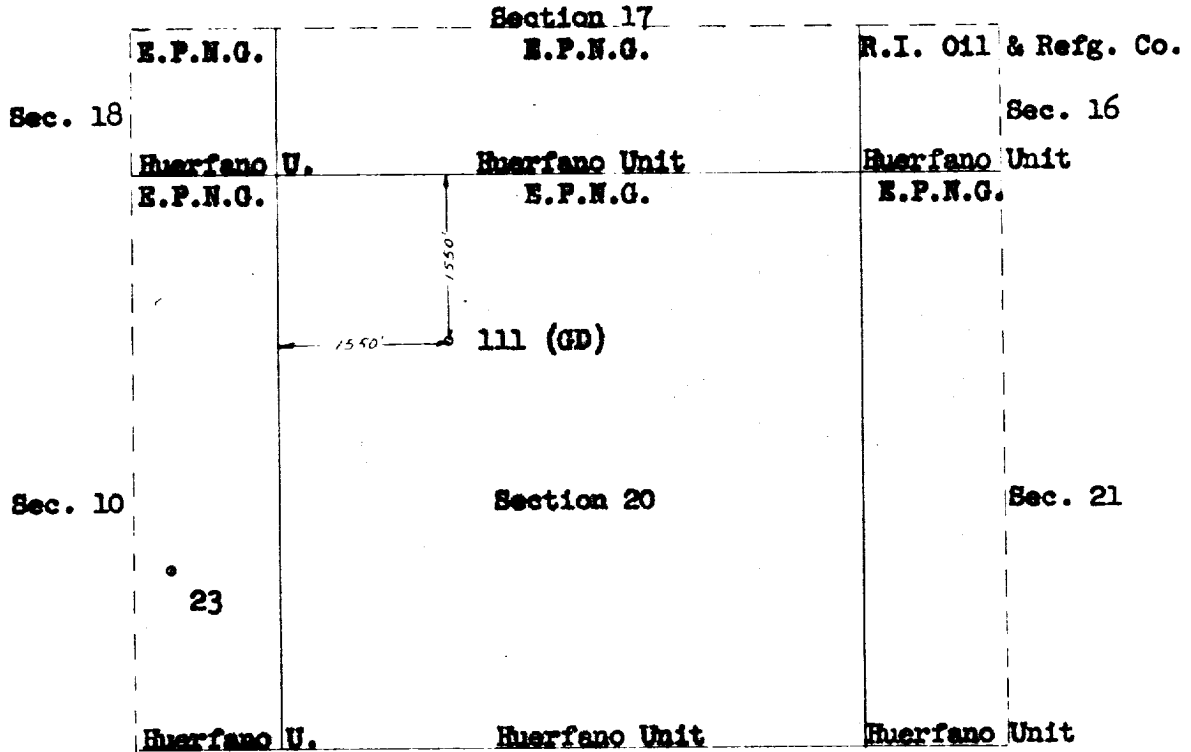
TESTED BY **T. B. Grant & J. B. Goodwin**

WITNESSED BY

Lewis D. Galloway
L. D. Galloway

PLAT SHOWING LOCATION OF DUALY COMPLETED
 El Paso Natural Gas Co. Huerfano Unit No. 111 (GD)
 and Offset Acreage

T-26-N
 R-9-W



EL PASO NATURAL GAS COMPANY EL PASO, TEXAS		
SCALE	DATE	No.
DRAWN BY	CHECKED BY	

