

NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

Form C-110
Revised 7/1/55

(File the original and 4 copies with the appropriate district office)

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION
TO TRANSPORT OIL AND NATURAL GAS

Company or Operator El Paso Natural Gas Company Lease Huerfano Unit

Well No. 112 (GD) Unit Letter F S 17 T 26N R 10W Pool Wildcat Dakota

County San Juan Kind of Lease (State, Fed. or Patented) Federal

If well produces oil or condensate, give location of tanks: Unit S T R

Authorized Transporter of Oil or Condensate El Paso Natural Gas Products Company

Address _____
(Give address to which approved copy of this form is to be sent)

Authorized Transporter of Gas El Paso Natural Gas Company

Address Box 997, Farmington, New Mexico
(Give address to which approved copy of this form is to be sent)

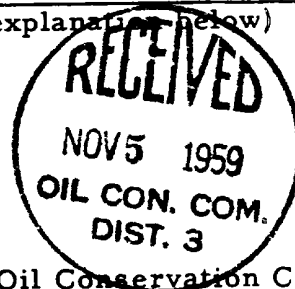
If Gas is not being sold, give reasons and also explain its present disposition:

Reasons for Filing: (Please check proper box) New Well _____ (X)

Change in Transporter of (Check One): Oil () Dry Gas () C'head () Condensate ()

Change in Ownership _____ () Other _____ ()

Remarks: _____ (Give explanation below)



The undersigned certifies that the Rules and Regulations of the Oil Conservation Commission have been complied with.

Executed this the 5th day of November 1959

By Original Signed C. D. COX

Approved NOV 25 1959 1959

Title Petroleum Engineer

OIL CONSERVATION COMMISSION

Company El Paso Natural Gas Company

By Original Signed Emery C. Arnold

Address Box 997

Title Supervisor Dist. # 3

Farmington, New Mexico

OIL CONSERVATION COMMISSION		
AZTEC DISTRICT OFFICE		
No. Copies Received <u>6</u>		
DISTRIBUTION		
	NO. FURNISHED	
	<u>2</u>	
	<u>1</u>	
State Land Office		
U. S. G. S.		
Transporter	<u>2</u>	
File	<u>1</u>	✓

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

OIL CONSERVATION COMMISSION
BOX 871
SANTA FE, NEW MEXICO

DATE 11-18-59

RE: Proposed NSP _____

Proposed NSL _____

Proposed NFO _____

Proposed DC ✓

Gentlemen:

I have examined the application dated 11-6-59
for the EPNG Houston Unit # 112 F-17-26N-10W
Operator Lease and Well No. S-T-R

and my recommendations are as follows:

approve

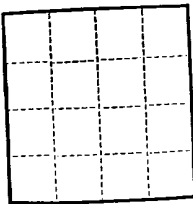
Yours very truly,

Emory C. Arnold
OIL CONSERVATION COMMISSION

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Santa Fe
Lease No. 078012
Unit Huerfano Unit



SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL	<u>Oil Frac.</u>	<u>X</u>

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

September 24, 1959

Well No. 112 (GD) is located 1650 ft. from N line and 1650 ft. from W line of sec. 17.

NW/4 Sec. 17 26N 10W H.M.P.M.
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Wildcat San Juan New Mexico
(Field) (County or Subdivision) (State or Territory)

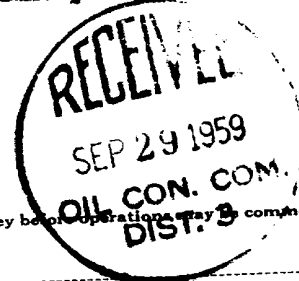
The elevation of the derrick floor above sea level is 6523 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

9-9-59 Total depth 6794'. Temporary bridge plug at 6504'. Oil fractured Lower Gallup perf. int. 5832-5842; 5848-5856; 5864-5872; 5900-5910 w/2 DJ/ft. w/30,400 gallons oil and 35,000# sand. BD pr. 2500#, max. pr. 2500#, avg. tr. pr. 2150-2500#. I.R. 62.2 BHM. Flush 10,100 gallons.

9-10-59 Total Depth 6794'. Temporary bridge plug at 5810'. Oil fractured Upper Gallup perf. int. 5650-5662; 5678-5686; 5690-5706; 5762-5776; 5784-5792 (2/DJ/ft.) w/41,500 gallons oil and 45,000# sand. BD pr. 2500#, max. pr. 3400#, avg. tr. pr. 2200-2500-3000#. I.R. 62.1 BHM. Flush 9,050 gallons.



I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

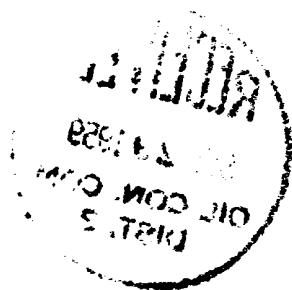
Company El Paso Natural Gas Company

Address Box 997

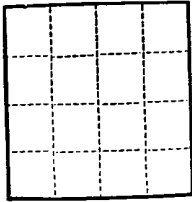
Farmington, New Mexico

By Original Signed By: D.H. Oheim

Title Petroleum Engineer



Form 9-551a
(Feb. 1961)



(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Santa Fe

Lease No. 11260

Unit Superior Unit

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	SUBSEQUENT REPORT OF WATER SHUT-OFF.....
NOTICE OF INTENTION TO CHANGE PLANS.....	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....	SUBSEQUENT REPORT OF ALTERING CASING.....
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....	SUBSEQUENT REPORT OF ABANDONMENT.....
NOTICE OF INTENTION TO PULL OR ALTER CASING.....	SUPPLEMENTARY WELL HISTORY.....
NOTICE OF INTENTION TO ABANDON WELL.....	

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

U.S. GEOLOGICAL SURVEY
FARMINGTON, NEW MEXICO

November 1, 1959

Well No. 112(GU) is located 1050 ft. from N line and 1050 ft. from E line of sec. 17

34, 4, 20, 17 (Twp.) 34 (Range) 34 (Meridian)
112(GU) (Field) 112(GU) (County or Subdivision) New Mexico (State or Territory)

The elevation of the derrick floor above sea level is 6773 ft.

DETAILS OF WORK

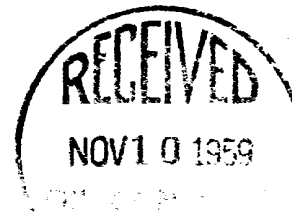
(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Spud date 7-29-59.

On 7-30-59 Total Depth 340'.

Run 6 joints, 10 3/4", 32.15#, Arisco O. W. casing (321') set at 332' with 195
sacks regular cement, 2 1/2 Gal, 2 1/2 Calcium Chloride, 1/2 cu. ft. strata-Crete "6"/sk.
circulated to surface.

Held 500#/30 minutes.



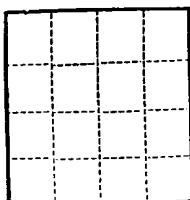
I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company McLean & Sons Co. Inc.

Address Box 994
Farmington, New Mexico

By ORIGINAL SIGNED J. J. TILLERSON

Title Geological Engineer



(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Santa Fe
Lease No. 070012
Unit Western Unit

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING
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NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY
NOTICE OF INTENTION TO ABANDON WELL	

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

August 24, 1959

Well No. 112(GD) is located 1650 ft. from N line and 1650 ft. from E line of sec. 11

N 1/4 Sec. 17 (1/4 Sec. and Sec. No.) 16N (Twp.) 10W (Range) N.M.P.M. (Meridian)
Gallup Wildcat & Dakota Wildcat (Field) San Juan (County or Subdivision) New Mexico (State or Territory)

The elevation of the derrick floor above sea level is 6593 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

On 8-20-59 Total Depth 6795'.
Run 205 joints 7, 23, J-55 & N-10 casing (6765') set at 6794'. Two stage cementing tool at 2235'. First stage 100 sacks regular cement, 100 sacks Formix with 4% Gel and 1/4% Floccle per sack, followed with 50 sacks neat cement. Second stage 55 sacks regular cement, 55 sacks Formix with 4% Gel and 1/4% Floccle per sack. Held 1000#/30 minutes.

Top of cement by temperature survey on second stage at 1440'



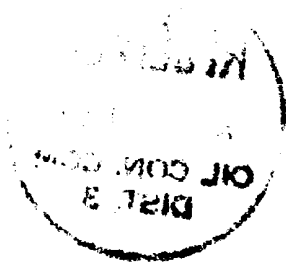
I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company El Paso Natural Gas Company

Address Box 997

Farmington, New Mexico

By ORIGINAL SIGNED J.J. TILLERSON
Title Petroleum Engineer



1964 MAY 19

NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

7-3-58

APPLICATION FOR DUAL COMPLETION

Field Name Wildcat Gallup & Wildcat Dakota		County San Juan	Date November 6, 1959
Operator El Paso Natural Gas Company		Lease Huerfano Unit	Well 112 (CD)
Location of Well 7	Unit 17	Section 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 ☐
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)	3650-5792 (Upper Gallup) 5832-5910 (Lower Gallup)	6570-6636 (Upper Dakota) 6668-6714 (Lower Dakota)
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.
- 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 Company 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 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.

EL PASO NATURAL GAS COMPANY OPEN FLOW TEST DATA

DUAL COMPLETION

DATE October 21, 1959

El Paso Natural Gas Company		Huerfano Unit No. 112 (D)	
1650N, 1650W; 17-26-10		San Juan New Mexico	
Dakota		Undesignated.	
7	6794	2	6719
6570	6714	6795 m/o 6758	Shut In: 10/6/59
Sand Oil Frac.		X	

.75	12.365		
1031 (Gal)	1043	15	1127 (Dak)
75	87		Calc.
69	.75	1.011	.75

Initial SIPT (Gal) = 199 psig
Final SIPT (Gal) = 1057 psig

Packer at 6693'

CHOKES VOL. MC = $12.365 \times 87 \times .9915 \times .8944 \times 1.011$

964

MCF/D

1297321
1264560

$1.0259^{.75} \times 964 = 1.0193 \times 964$

983

S. V. Roberts and Bill Dawson

Lewis D. Galloway
L. D. Galloway

NEW MEXICO OIL CONSERVATION COMMISSION
NORTHWEST NEW MEXICO PACKER - LEAKAGE TEST

FORM PL-NW-1
REVISED 6-1-59

Operator El Paso Natural Gas Company	Lease Huerfano Unit	Well No. 112 (DG)
Location of Well: Unit F Sec. 17 Twp 26 Rge 10	County San Juan	Type of Test: Initial 10/21/59 Annual YEAR
UPPER COMPLETION: Gallup	Oil or Gas Oil	Flowing or Artificial Lift Pumping
LOWER COMPLETION: Dakota	Oil or Gas Gas	Flowing or Artificial Lift Flowing
		Producing Casing or Tubing Tubing

SHUT-IN PRESSURE DATA BEFORE FLOW TEST NO. 1

UPPER COMPLETION: 10/6/59	How Long Well Shut-in 15 days	Shut-in Pressure, PSIG 1031 (C), 199 (T)	Standard Pressure XXXXX (No)
LOWER COMPLETION: 10/6/59	How Long Well Shut-in 15 days	Shut-in Pressure, PSIG 1127	Standard Pressure XXXXX (No)

FLOW TEST NO. 1

LAPSED TIME SINCE FLOW BEGAN	SHUT-IN TIME PRESSURE, PSIG	WORKING COLUMN PRESSURE, PSIG	FLOWING ZONE PRESSURE, PSIG	FLOWING TEMPERATURE	REMARKS
15	1045				
30	1043			72	
45	1042			69	
60	1041			68	
180	1037	Calc. 169	75	69	

OIL PRODUCED	Oil Rate	Gravity	Gas Oil Ratio
	Bbl. D		
GAS PRODUCED	Rate of Flow	Tested Through	
	964 MCF/D (Choke)	XXXXX	

REMARKS:

Ran bottom hole bomb to 5896' in Gallup tubing - Initial and final BHP = 1260 psig.

SHUT-IN PRESSURE DATA BEFORE FLOW TEST NO. 2

UPPER COMPLETION: 10/6/59	How Long Well Shut-in 22 days	Shut-in Pressure, PSIG SIPC (G) 558	Standard Pressure XXXXX (No)
LOWER COMPLETION: 10/21/59	How Long Well Shut-in 7 days	Shut-in Pressure, PSIG BHP SIPT (D) 1119, 1770	Standard Pressure XXXXX (No)

FLOW TEST NO. 2

LAPSED TIME SINCE FLOW BEGAN	FLOWING ZONE PRESSURE, PSIG	WORKING COLUMN PRESSURE, PSIG	SHUT-IN ZONE PRESSURE, PSIG	FLOWING TEMPERATURE	REMARKS
24 hrs.	667		SIPT (D) 1152		
			BHP 1774		



OIL PRODUCED	Total Pkgs.	Number Hours	Oil Rate	Gravity	Gas Oil Ratio
	141	24	141	39.1	1738
GAS PRODUCED	Rate of Flow	Tested Through			
	MCF/D (Choke or Meter)				

REMARKS: Bottom hole bomb at 6741' in Dakota tubing for 24 hours period with pressure increasing from 1770 lb. to 1774 lb. BHT was 185°F. Gallup zone was pumping through tubing. Test period was 10/28 to 10/29/59.

The results of this test indicate (No Packer Leakage) (~~XXXXXXXXXX~~) in this well.

I hereby certify that the information herein contained is true and complete to the best of my knowledge.

Approved 11-5 1959
NEW MEXICO OIL CONSERVATION COMMISSION
BY: Emory Currier
TITLE: **Supervisor Dist. # 3**

OPERATOR **El Paso Natural Gas**
BY: H. L. Kendrick
TITLE: **Gas Engineer**
DATE: **11/4/59**

ALONGER...
...
... 3 ...

/		
/		
/		✓

SCHEMATIC DIAGRAM OF DUAL COMPLETION
El Paso Natural Gas Co. Buerfano Unit No. 112 (GD)
NW/4 Section 17, T-26-N, R-10-W

