

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE December 13, 1965

Operator El Paso Natural Gas Company		Lease Huerfanito Unit No. 96	
Location 990'N, 820'E, Sec. 22, T-27-N, R-9-W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 6913	Tubing: Diameter 2.375	Set At: Feet 6787
Pay Zone: From 6622	To 6802	Total Depth: 6913	Shut In 12-4-65
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750	Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2067	+ 12 = PSIA 2079	Days Shut-In 9	Shut-In Pressure, Tubing PSIG 2045	+ 12 = PSIA 2057
Flowing Pressure: P PSIG 76	+ 12 = PSIA 88		Working Pressure: P _w PSIG 428	+ 12 = PSIA 440
Temperature: T = 70 °F F _t = .9905	n = .75		F _{pv} (From Tables) 1.008	Gravity .670 F _g = .9463

$$\text{CHOKE VOLUME} = Q = C \times P_i \times F_t \times F_g \times F_{pv}$$

$$Q = (12.365) (88) (.9905) (.9463) (1.008) = 1,028 \text{ MCF/D}$$

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

$$Aof = \left(\frac{4322241}{4128641} \right)^n = (1,028) (1.0468)^{.75} = (1,028) (1.0349)$$

$$Aof = 1,064 \text{ MCF/D}$$

NOTE: Made heavy slug of oil and water approx. 4 minutes after opening well up and then turned to fog of light hydrocarbons and continued this throughout test.

TESTED BY R. F. Headrick

CHECKED BY W. D. Dawson

Lewis D. Galloway
Lewis D. Galloway



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 42-B424.

5. LEASE DESIGNATION AND SERIAL NO.

SP 078356

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Huerfano Unit

8. FARM OR LEASE NAME

Huerfano Unit

9. WELL NO.

95

10. FIELD AND POOL, OR WILDCAT

Basin Dakota

11. SEC., T., R., M., OR BLK. AND
SURVEY OR AREA

Sec. 22, T-27-N, R-9-W

N.M.P.M.

12. COUNTY OR PARISH 13. STATE

San Juan New Mexico

SUNDRY NOTICES AND REPORTS ON WELLS
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL ☐ GAS WELL ☒ OTHER

2. NAME OF OPERATOR
El Paso Natural Gas Company

3. ADDRESS OF OPERATOR
Box 990, Farmington, New Mexico

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface
990'N, 820'E

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

6292' GL

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐

FRACTURE TREAT ☐

SHOOT OR ACIDIZE ☐

REPAIR WELL ☐

(Other)

PULL OR ALTER CASING ☐

MULTIPLE COMPLETE ☐

ABANDON* ☐

CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☒

FRACTURE TREATMENT ☐

SHOOTING OR ACIDIZING ☐

(Other)

REPAIRING WELL ☐

ALTERING CASING ☐

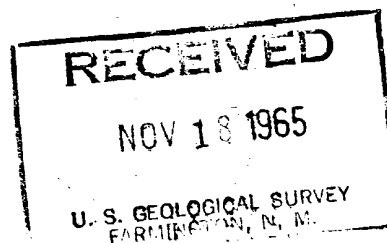
ABANDONMENT* ☐

(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

On 11-15-65 zudded well and drilled 350' of surface hole.

On 11-16-65 ran 10 joints 9 5/8", 32.3#, H-40 casing (330.83') set at 343.83'
w/300 sacks Class "A" cement, 1/8# Floccs/sk., 2% calcium chloride circulated to
surface.



18. I hereby certify that the foregoing is true and correct.

SIGNED DR G'NAL SIGNED F. S. OBERLY

TITLE Petroleum Engineer

DATE 11-17-65

(This space for Federal or State office use)

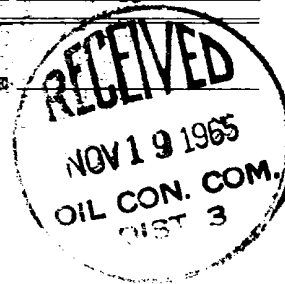
APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side



Instructions

General: This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 17: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.