

OCC

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 11/27/72

Operator EL PASO NATURAL GAS COMPANY		Lease Neil #12	
Location 1090/S, 835/E. Sec. 4, T31N, R11W		County San Juan	State NM
Formation Pictured Cliffs		Pool Blanco	
Casing: Diameter 2.875	Set At: Feet 2904	Tubing: Diameter No tubing	Set At: Feet
Pay Zone: From 2780	To 2820	Total Depth: 2904	Shut In 11/19/72
Stimulation Method SWF		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 910	+ 12 = PSIA 922	Days Shut-In 8	Shut-In Pressure, Tubing PSIG	+ 12 = PSIA	
Flowing Pressure: P PSIG 194	+ 12 = PSIA 206	Working Pressure: P _w PSIG Calculated	+ 12 = PSIA	256	
Temperature: T = 64 °F	F _t = .9962	n = .85	F _{pv} (From Tables) 1.018	Gravity .635	F _g = .9721

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

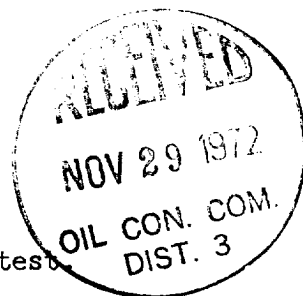
$$Q = (12.365)(206)(.9962)(.9721)(1.018) = \underline{2511} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{850084}{784548} \right)^n = 2511 (1.0835)^{.85} = 2511 (1.0706)$$

$$Aof = \underline{2688} \text{ MCF/D}$$

NOTE: Blew dry gas thru test



TESTED BY Rhames

WITNESSED BY

William D. Welch
William D. Welch
Well Test Engineer

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

SF 078051

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Neil

9. WELL NO.

12

10. FIELD AND POOL, OR WILDCAT

Blanco Pictured Cliffs Ext.

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

Sec. 4, T-31-N, R-11-W
NMPM

12. COUNTY OR PARISH

San Juan

13. STATE

New Mexico

1. OIL WELL ☐ GAS WELL ☒ OTHER

2. NAME OF OPERATOR

El Paso Natural Gas Comp any

3. ADDRESS OF OPERATOR

PO Box 990, Farmington, NM 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface 1090'S, 835'E

14. PERMIT NO.

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

6078'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* ☐

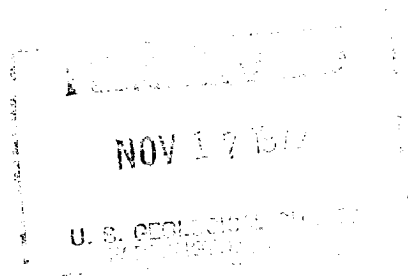
(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

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.)*

11-3-72 Tested surface casing to 600#/30 minutes.

11-7-72 T. D. 2904'. Ran 94 joints 2 7/8", 6.4#, J-S production casing, 2893'.
Cemented with 578 cu. ft. cement. WOC 18 hours. Top of cement at 775'.

11-16-72 PBSD 2893'. Perf'd 2780-95' and 2805-20' with 30 shots per zone. Frac'd
with 32,000# 10/20 sand and 36,424 gallons water. Dropped one set of
30 balls. Flushed with 714 gallons.



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

SIGNED

[Signature]

TITLE Petroleum Engineer

DATE November 17, 1972

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE