

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE\*  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R1424

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. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO. SF 078987
2. NAME OF OPERATOR El Paso Natural Gas Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR PO Box 990, Farmington, NM 87401		7. UNIT AGREEMENT NAME Canyon Largo Unit
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1490'N, 1780'W		8. FARM OR LEASE NAME Canyon Largo Unit
14. PERMIT NO.		9. WELL NO. 198
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 7052'GL		10. FIELD AND POOL, OR WILDCAT Ballard Pictured Cliffs
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 34, T-25-N, R-7-W NMPM
		12. COUNTY OR PARISH Rio Arriba
		13. STATE NM

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 ☐

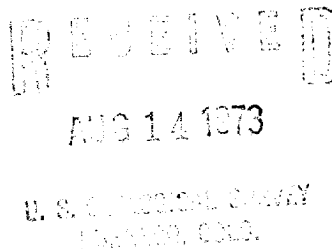
ABANDONMENT\* ☐

(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.)\*

8-7-73 Spudded well. Drilled surface hole.

8-8-73 Ran 4 joints 8 5/8", 24#, J-55 surface casing, 133' set at 133'GL.  
Cemented with 108 cu. ft. cement, circulated to surface. WOC 12 hours.



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

SIGNED R. H. Jones

TITLE Drilling Clerk

DATE August 10, 1973

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

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SF 078987

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

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1. OIL WELL ☐ GAS WELL ☒ OTHER
2. NAME OF OPERATOR  
El Paso Natural Gas Company
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 1490'N, 1780'W

7. UNIT AGREEMENT NAME

Canyon Largo Unit

8. FARM OR LEASE NAME

Canyon Largo Unit

9. WELL NO.

198

10. FIELD AND POOL, OR WILDCAT

Ballard Pictured Cliffs

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

Sec. 34, T-25-N, R-7-W  
NMPM

14. PERMIT NO.

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

7052'GL

12. COUNTY OR PARISH

Rio Arriba

13. STATE

NM

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON\*

REPAIR WELL

CHANGE PLANS

(Other)

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

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(Other)

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(NOTE: Report results of multiple completion on Well  
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8-19-73 Tested surface casing, to 600#/30 minutes.

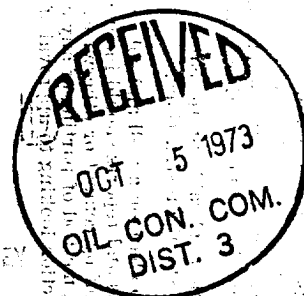
8-21-73 TD 2809'. Ran 88 joints 2 7/8", 6.4#, LSS production casing, 2799' set at 2809'. Baffle set at 2799'. Cemented with 264 cu. ft. cement. WOC 18 hours. Top of cement at 1350'.

9-26-73 PBTD 2799'. Tested casing to 4000#-OK. Perf'd 2642-56', 2666-82' and 2718-30' with 16 shots per zone. Frac'd with 46,000# 10/20 sand and 46,000 gallons treated water. Dropped two sets of 16 balls each. Flushed with 660 gallons water.

RECEIVED

OCT 4 1973

U.S. GEOLOGICAL SURVEY



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

SIGNED

*Al H. Duce*

TITLE

Drilling Clerk

DATE October 2, 1973

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATADATE October 15, 1973

Operator El Paso Natural Gas Company		Lease Canyon Largo Unit #198	
Location 1490/N, 1780/W, Sec. 34, T-25N, R7W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Ballard	
Casing: Diameter 2.875	Set At: Feet 2809'	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 2642	To 2730'	Total Depth: 2809	Shut In 9-28-73
Stimulation Method Sandwater Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 309	+ 12 = PSIA 321	Days Shut-In 12	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 173	+ 12 = PSIA 185	Working Pressure: P <sub>w</sub> PSIG Calculated	+ 12 = PSIA	229	
Temperature: T = 62 °F	n = .85	F <sub>pv</sub> (From Tables) 1.021	Gravity .700	F <sub>g</sub> = 9258	

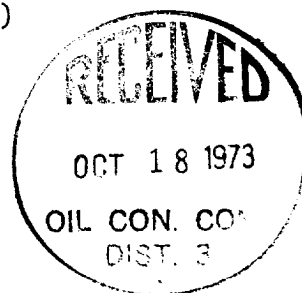
$$\text{CHOKE VOLUME} = Q = C \times P_i \times F_t \times F_g \times F_{pv}$$

$$Q = (12.365)(185)(.9981)(.9258)(1.021) = 2158 \text{ MCF/D}$$

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

$$Aof = Q \left( \frac{103041}{50600} \right)^n = 2158 (2.0364)^{.85} = 2158 (1.8303)$$

$$Aof = 3950 \text{ MCF/D} \quad \text{Note: Blew Dry Gas.}$$

TESTED BY R. Hardy

WITNESSED BY \_\_\_\_\_

*William D. Welch*  
 William D. Welch  
 Well Test Engineer