

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.

**SP 079391**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

**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 - 87401**

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface

**790'N, 1560'E**

7. UNIT AGREEMENT NAME

**San Juan 27-5 Unit**

8. FARM OR LEASE NAME

**San Juan 27-5 Unit**

9. WELL NO.

**83**

10. FIELD AND POOL, OR WILDCAT

**Basin Dakota**

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

**Sec. 9, T-27-N, R-5-W**

**N.M.P.M.**

14. PERMIT NO.

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

**6779' OL**

12. COUNTY OR PARISH

13. STATE

**Rio Arriba New Mexico**

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

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PULL OR ALTER CASING

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FRACTURE TREAT

MULTIPLE COMPLETION

SHOOT OR ACIDIZE

ABANDON\*

REPAIR WELL

CHANGE PLANS

(Other)

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

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REPAIRING WELL

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FRACTURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING

ABANDONMENT\*

(Other)

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

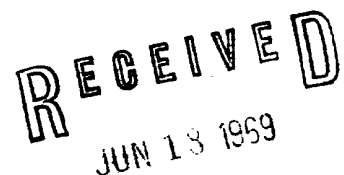
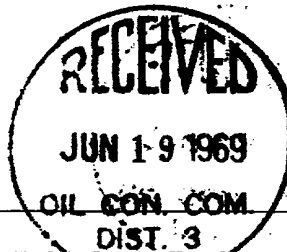
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to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

On 5-21-69 spudded well, drilled surface hole and ran 6 joints 9 5/8", 32.30#, H-40 casing (201') set at 215' w/200 sacks of cement circulated to surface. W.O.C. 12 hours, held 600#/30 Min.

On 5-27-69 T. D. 3820', ran 120 joints 7", 20#, J-55 intermediate casing (3805') set at 3820' w/150 sacks of cement. W.O.C. 12 hours, held 800#/30 Min.

On 6-5-69 T. D. 8042', ran 248 joints 4 1/2", 10.5 & 11.6#, J-55 casing (8030') set at 8042' w/360 sacks cement. W.O.C. 18 hours.

On 6-6-69 P.B.T.D. 8031', tested casing to 4000# O. K. Spotted 300 gal. 7 1/2" HCL. Perf. 7810-20'; 7920-32', 7963-69', 7980-86', 8013-21' w/24 SPZ. Frac w/68,000# 40/60 sand, 70,260 gal. water. Max. pr. 4000#, BEP 2000#, avg. tr. pr. 3900#, I.R. 30 BPM. Dropped 4 sets of 24 balls, flushed w/5400 gal. water. ISIP 2400#, 5 Min. 2000#, 15 Min. 1400#, 30 Min. 1100#.



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

SIGNED

Original Signed By:

TITLE

**Reservoir Engineer**

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

U. S. GEOLOGICAL SURVEY  
DURANGO, COLO.  
DATE **6-11-69**

\*See Instructions on Reverse Side

*State*

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE 7-01-69

Operator El Paso Natural Gas		Lease San Juan 27-5 Unit No. 83	
Location 790'N; 1560'E; S-9; T-27N; R-5W		County Rio Arriba	State New Mexico
Formation Basin		Pool Dakota	
Casing: Diameter 4.500	Set At: Feet 8042	Tubing: Diameter 2.375	Set At: Feet 7781
Pay Zone: From 7810	To 8021	Total Depth: 8042	Shut In 6-08-69
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 2425	+ 12 = PSIA 2437	Days Shut-In 23	Shut-In Pressure, Tubing PSIG 1720	+ 12 = PSIA 1732	
Flowing Pressure: P PSIG 328	+ 12 = PSIA 340		Working Pressure: P <sub>w</sub> PSIG 1128	+ 12 = PSIA 1140	
Temperature: T = 85 °F	n = .75		Fpv (From Tables) 1.028	Gravity .650	Fg = .9608

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

$$Q = (12.365)(340)(.9768)(.9608)(1.028) = \underline{4056} \text{ MCF/D}$$


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

$$Aof = \left( \frac{5938969}{4639369} \right)^n = (1.2801)^{.75} 4056 = 1.2034 (4056)$$

Note: Heavy fog of water and light hydrocarbons

$$Aof = \underline{4880} \text{ MCF/D}$$

TESTED BY JBG  
Calculated  
WITNESSED BY RF & RES

  
H. L. Kendrick

