

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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

Form approved.
Budget Bureau No. 42-R1424

5. LEASE DESIGNATION AND SERIAL NO.

SF 079391

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

San Juan 27-5 Unit

8. FARM OR LEASE NAME

San Juan 27-5 Unit

9. WELL NO.

137

10. FIELD AND POOL, OR WILDCAT

Basin Dakota

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

Sec. 18, T-27-N, R-5-W
N.M.P.M.

12. COUNTY OR PARISH 13. STATE

Rio Arriba

New Mexico

1.

OIL ☐ GAS ☒ 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

1750' North, 1500' East

14. PERMIT NO.

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

6534' 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.)*

2-4-72: Spudded well, drilled surface hole.

2-5-72: Ran 7 joints 9 5/8", 32.3#, HS surface casing, 225' set at 238'.
Cemented with 224 cu. ft. cement, circulated to surface. W. O. C.
12 hours, held 600#/30 minutes.



RECEIVED

MAR 28 1972

U. S. GEOLOGICAL SURVEY
DURANGO, COLO.

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

SIGNED

H. Wood

TITLE

Petroleum Engineer

DATE

March 28, 1972

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

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NMPM

12. COUNTY OR PARISH 13. STATE

Rio Arriba New Mexico

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

1750'N, 1500'E

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

6534'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) ☐FULL 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 perti-
nent to this work.)*2-9-72 TD 3605'. Ran 111 joints 7", 20#, K-55 intermediate casing, 3592' set at
3605'. Cemented with 215 cubic feet cement. WOC 12 hours, held 1200#/30
minutes. Top of cement at 3095'.2-16-72 TD 7753'. Ran 244 joints 4 1/2", 11.6 and 10.5#, KS production casing,
7742' set at 7753'. Float collar set at 7741'. Cemented with 639 cubic feet
cement. WOC 18 hours. Top of cement at 3210'.4-8-72 PBTD 7741. Perfed 7496-7502', 7522-34', 7536-48', 7668-74', 7686-92' and
7714-30' with 18 shots per zone. Fraced with 56,000# 40/60 sand and 56,400
gallons treated water. Dropped 5 sets of 18 balls each. Flushed with
5230 gallons water.

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

SIGNED Original Signed F. H. WOOD

TITLE Petroleum Engineer

DATE April 11, 1972

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

U. S. GEOLOGICAL SURVEY
DURANGO, COLO.

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE April 17, 1972

Operator EL PASO NATURAL GAS COMPANY		Lease San Juan 27-5 Unit No. 137	
Location 1750 S - 1500 E Sec. 18-27-5		County Rio Arriba	State N. M.
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7753	Tubing: Diameter 1.500	Set At: Feet 7723
Pay Zone: From 7496	To 7730	Total Depth: 7753	Shut In 4-9-72
Stimulation Method SWF		Flow Through Casing XXX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2611	+ 12 = PSIA 2623	Days Shut-In 8	Shut-In Pressure, Tubing PSIG 2606	+ 12 = PSIA 2618	
Flowing Pressure: P PSIG 317	+ 12 = PSIA 329		Working Pressure: P _w PSIG 580	+ 12 = PSIA 592	
Temperature: T = 73 °F F _t = .9877	n = .75		F _{pv} (From Tables) 1.030	Gravity .655 F _g = .9571	

CHOKE VOLUME = Q = C x P_i x F_t x F_g x F_{pv}

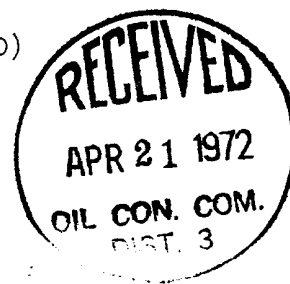
Q = (12.365)(329)(.9877)(.9571)(1.030) = 3964 MCF/D

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

NOTE: Well Produced light spray of water throughout test.

Aof = $\left(\frac{6880129}{6529665} \right)^n = (3964)(1.0537)^{.75} = (3964)(1.0400)$

Aof = 4123 MCF/D



TESTED BY B.J. B.

WITNESSED BY R. H.

H. E. McAnally
H. E. McAnally