

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)Form approved.
Budget Bureau No. 42-R1424.
5. LEASE DESIGNATION AND SERIAL NO.

SF 078201-A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Riddle A

9. WELL NO.

2 (OWNED)

10. FIELD AND POOL, OR WILDCAT

Blanco Mesa Verde

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

Sec. 21, T-29-N, R-9-W

N.M.P.M.

12. COUNTY OR PARISH

San Juan

13. STATE

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 ☐ GAS ☒ OTHER ☐
WELL WELL

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

1650'N, 990'E

14. PERMIT NO.

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

6400' 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) Squeeze ☒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.) *

7-5-67 Pulled tubing, killed well w/water.

On 7-6-67 because of junk in open hole from previous completion, set cement retainer at 4490', squeezed open hole w/200 sacks cement. Perf. 3 squeeze holes at 2075', set cement retainer at 2023'. Squeezed thru perfs w/125 sacks cement, tested perfs w/800# O. K.

7-8-67 drilled and pushed junk to 4606', ran 40 gallons of Hydromite plug on top of junk.

7-9-67 Hydromite plug did not set up, drilled and pushed junk to 4624', set cement retainer at 4499', squeezed open hole w/50 sacks cement.

7-10-67 Cleaned out to 4623', set cement retainer at 4530', re-squeezed open hole w/100 sacks cement.

7-11-67 C.O. to 4624', set cement retainer at 4462', squeezed w/57 sacks cement.

7-15-67 T.D. 5468', ran 170 joints 4 1/2", 10.5#, J-55 casing (5458') set at 5468' w/100 sacks cement. W.O.C. 18 hours.

7-16-67 P.B.T.D. 5433', tested casing to 3500#, perf. 5269-77', 5296-5304', 5314-22', 5341-45', 5364-72', 5382-90' w/16 SPZ, frac w/65,000# 20/40 sand, 65,010 gal. water. Max. pr. 3500#, BDP 2500#, tr. pr. 1500-1750-2150#. I.R. 69 BPM. Dropped 6 sets of 16 balls each, flushed w/3600 gal. water. ISIP -0-, 5 Min. SIP -0-. Set BP @ 5079' tested w/3000# O. K. Perf. 4671-87', 4708-24', 4778-90', 4800-12', 4831-39', w/16 SPZ, frac w/42,000# 20/40 sand, 40,120 gal. water. Max. pr. 3500#, BDP 2100#, tr. pr. 2100-2200-2500#. I.R. 57 BPM. Dropped 3 sets of 16 balls & 1 set of 32 balls. Flushed w/3400 gal. water. ISIP 500#, 5 Min. SIP 50#.

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

SIGNED Original signed by
Carl E. Matthews

TITLE Petroleum Engineer

DATE 7-20-67

(This space for Federal or State office use)

APPROVED BY
CONDITIONS OF APPROVAL, IF ANY:

TITLE

*See Instructions on Reverse Side

U. S. GEOLOGICAL SURVEY

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.

U.S. GOVERNMENT PRINTING OFFICE: 1963—O—685229

507-051



10-11-63
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EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE August 9, 1967

Operator El Paso Natural Gas Company		Lease Riddle A No. 2 (OWWO)	
Location 1650'N, 990'E Sec. 1, T-29-N, R-9-W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5468	Tubing: Diameter 2.375	Set At: Feet 5334
Per Zone: From 4657	To 5390	Total Depth: 5468	Shut In 7-18-67
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 835	+ 12 = PSIA 897	Days Shut-In 22	Shut-in Pressure, Tubing PSIG 832	+ 12 = PSIA 894	
Flowing Pressure: P PSIG 359	+ 12 = PSIA 371		Working Pressure: P _w PSIG 797	+ 12 = PSIA 809	
Temperature: T = 71 °F	n = .75		F _{pv} (From Tables) 1.039	Gravity .680	F _g = .9393

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

$$Q = (12.365)(371)(.7896)(.9393)(1.039) = \underline{4430} \text{ MCF/D}$$

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

$$Aof = \left(\frac{804,609}{150,128} \right)^n = 4430(5.3594)^{.75} = 4430(3.5200)$$

NOTE: Blew light fog of water.

$$Aof = \underline{15594} \text{ MCF/D}$$

TESTED BY Jesse B. GoodwinCHECKED BY T. B. Grant
H. L. Kendrick
H. L. Kendrick

by TBC