

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.

NM 010989

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Fields

9. WELL NO.

9

10. FIELD AND POOL, OR WILDCAT

Undes. Pictured Cliffs

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

Sec. 34, T-32-N, R-11-W

NMPM

12. COUNTY OR PARISH 13. STATE

San Juan

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

1810'N, 1540'E

14. PERMIT NO.

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

6139'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.)*

12-27-72 Spudded well, drilled surface hole.

12-28-72 Ran 4 joints 8 5/8", 24#, KS, surface casing, 127' set at 127'GL, with 107 cu. ft. cement, circulated to surface. WOC 12 hours.

RECEIVED

JAN 2 1972

U. S. GEOLOGICAL SURVEY
FARMINGTON, N. M.

RECEIVED

JAN 3 1973

OIL CON. COM.
DIST. 3

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

SIGNED

TITLE

Petroleum Engineer

DATE

December 29, 1972

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES
DEPARTMENT OF THE INTERIOR
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Budget Bureau No. 42-R1424.

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

Sec. 34, T-32-N, R-11-W
NMPM

12. COUNTY OR PARISH

San Juan

13. STATE

New Mexico

14. PERMIT NO.

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

6139'GR

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

☐
☐
☐
☐

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

☒
☒
☐

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

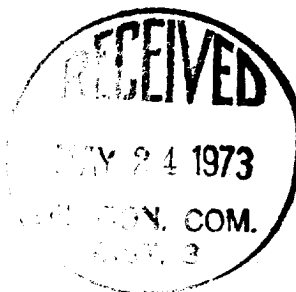
☐
☐
☐

(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.) *

1-7-73 TD 3010'. Ran 97 joints 2 7/8", 6.4#, JS production casing, 2999' set at 3010'. Baffle set at 3001'. Cemented with 340 cu. ft. cement. WOC 18 hours. Top of cement at 1990'.

5-16-73 PBTD 3001'. Tested casing to 4000#-OK. Perf'd 2874-94', 2904-18', 2938-50' with 20 shots per zone. Frac'd with 32,000# 10/20 sand and 31,910 gallons treated water. Dropped two sets of 20 balls each. Flushed with 720 gallons.



MAY 23 1973

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

SIGNED A. L. Duce

TITLE Drilling Clerk

DATE May 23, 1973

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE May 25, 1973

Operator El Paso Natural Gas Company		Lease Fields No. 9	
Location 1810'N, 1540'E, Section 34, T32N, R11W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Undesignated	
Casing: Diameter 2.875	Set At: Feet 3010	Tubing: Diameter No tubing	Set At: Feet
Pay Zone: From 2874	To 2950	Total Depth: 3010	Shut In 5-18-73
Stimulation Method SWF		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 917	+ 12 = PSIA 929	Days Shut-In 7	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 100	+ 12 = PSIA 112		Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 140	
Temperature: T=60 °F F _t =1.000	n = .85		F _{pv} (From Tables) 1.010	Gravity .635 F _g = .9721	

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

$$Q = (12.365)(112)(1.000)(.9721)(1.010) = 1360 \text{ MCF/D}$$

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

NOTE: The well produced dry gas.

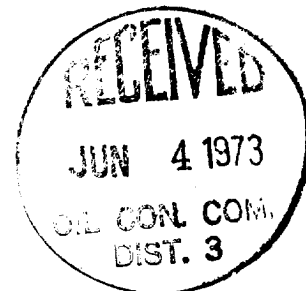
$$Aof = Q \left(\frac{863041}{843441} \right)^n = 1360(1.0232)^{.85} = 1360(1.0197)$$

$$Aof = 1387 \text{ MCF/D}$$

TESTED BY Carl Rhames

WITNESSED BY

William D. Welch
William D. Welch, Well Test Engineer



EL PASO NATURAL GAS COMPANY

DEVIATION REPORT

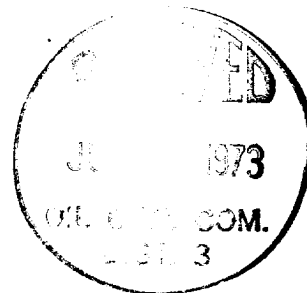
Name Of Company El Paso Natural Gas Company				Address P. O. Box 990, Farmington, New Mexico		
Lease Fields	Well No. 9	Unit Letter G	Section 34	Township 32-N	Range 11 W	
Pool Under PC				County San Juan		

DEPTH

899

DEVIATION

$\frac{1}{2}$



I, the undersigned, certify that I, acting in my capacity as Petroleum Engineer of El Paso Natural Gas Company, am authorized by said Company to make this report; and that this report was prepared by me or under my supervision and directions and that the facts stated therein are true to the best of my knowledge and belief.

[Signature]

Subscribed and sworn to before me this 8th day of June, 1973.

[Signature]

Notary Public in and for San Juan County, New Mexico

My commission expires October 5, 1976.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See other in-
structions on
reverse side)Form approved.
Budget Bureau No. 42-R355.6.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other _____		5. LEASE DESIGNATION AND SERIAL NO. NM 010989	
b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other _____		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR El Paso Natural Gas Company		7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR PO Box 990, Farmington, NM 87401		8. FARM OR LEASE NAME Fields	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements) At surface 1810'N, 1540'E At top prod. interval reported below At total depth		9. WELL NO. 9	
14. PERMIT NO.		DATE ISSUED JUN 12 1973	
15. DATE SPUNDED 12-27-72		16. DATE T.D. REACHED 1-6-73	
17. DATE COMPL. (Ready to prod.) 5-25-73		18. ELEVATIONS (DF, REB, RT, GR, ETC.)* 6139'GL	
19. ELEV. CASINGHEAD		20. FIELD AND POOL, OR WILDCAT Undes. Pictured Cliffs	
21. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Sec. 34, T-32-N, R-11-W		22. COUNTY OR PARISH San Juan	
23. STATE New Mexico		24. PERMIT NO.	
25. DATE SPUNDED 12-27-72		26. DATE T.D. REACHED 1-6-73	
27. DATE COMPL. (Ready to prod.) 5-25-73		28. ELEVATIONS (DF, REB, RT, GR, ETC.)* 6139'GL	
29. TOTAL DEPTH, MD & TVD 3010'		30. PLUG, BACK T.D., MD & TVD 3001'	
31. IF MULTIPLE COMPL., HOW MANY*		32. INTERVALS DRILLED BY →	
33. ROTARY TOOLS 0-3010'		34. CABLE TOOLS	
35. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 2874-2950' (Pictured Cliffs)		36. WAS DIRECTIONAL SURVEY MADE no	
37. TYPE ELECTRIC AND OTHER LOGS RUN Gamma Ray - Neutron; Temp. Survey		38. WAS WELL CORED no	
39. CASING RECORD (Report all strings set in well)		40. CEMENTING RECORD	
41. CASING SIZE 8 5/8"		42. WEIGHT, LB./FT. 24.0#	
43. DEPTH SET (MD) 127'		44. HOLE SIZE 12 1/4"	
45. CEMENTING RECORD 107 cu. ft.		46. CEMENTING RECORD 340 cu. ft.	
47. LINER RECORD		48. TUBING RECORD	
49. SIZE 8 5/8"		50. TOP (MD) 127'	
51. BOTTOM (MD) 3010'		52. SACKS CEMENT* 3010'	
53. SCREEN (MD) 6 3/4"		54. SIZE 8 5/8"	
55. DEPTH SET (MD) 3010'		56. DEPTH SET (MD) 3010'	
57. PERFORATION RECORD (Interval, size and number) 2874-94', 2904-18' and 2938-50' with 20 shots per zone.		58. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. DEPTH INTERVAL (MD) 2874-2950'	
59. AMOUNT AND KIND OF MATERIAL USED 32,000#sand; 31,910 gal. water		60. AMOUNT AND KIND OF MATERIAL USED 32,000#sand; 31,910 gal. water	
61. PRODUCTION DATE FIRST PRODUCTION 5-25-73		62. PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) flowing	
63. WELL STATUS (Producing or shut-in) shut-in		64. DATE OF TEST 5-25-73	
65. HOURS TESTED 3		66. CHOKER SIZE 3/4"	
67. PROD'N. FOR TEST PERIOD →		68. OIL—BBL. 1387 MCF/D	
69. GAS—MCF. 1387 MCF/D		70. WATER—BBL. AOF	
71. OIL GRAVITY-API (CORR.)		72. FLOW. TUBING PRESS. tubingless	
73. CASING PRESSURE SI 929		74. CALCULATED 24-HOUR RATE →	
75. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)		76. TEST WITNESSED BY C. Rhames	
77. LIST OF ATTACHMENTS		78. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records	
79. SIGNED Drilling Clerk		80. DATE June 7, 1973	

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws 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. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

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 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES:		38. GEOLOGIC MARKERS		
SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF: CORED INTERVALS, AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES		NAME	TOP	
FORMATION	DEPTH INTERVAL TESTED		MEAS. DEPTH	TRUE VERT. DEPTH
		Pictured Cliffs	2872'	