

EL PASO NATURAL GAS COMPANY

DEVIATION REPORT

Name Of Company El Paso Natural Gas Company				Address P. O. Box 990, Farmington, New Mexico			
Lease Vandewart A	Well No. 1A	Unit Letter P	Section 11	Township 29-N	Range 8-W		
Pool Blanco P.C. Ext. - Blanco Mesa Verde					County San Juan		

DEPTH

DEVIATION

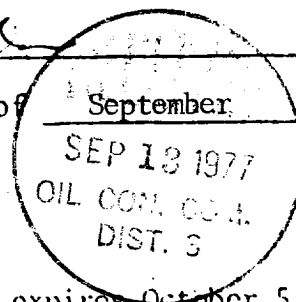
220'	1/2°
743'	1/2°
1200'	1 1/4°
1898'	1°
2263'	1 1/4°
2801'	1°
3530'	1/2°
4390'	1°
4902'	3/4°
5450'	1 1/4°
5708'	1 1/2°

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.

Subscribed and sworn to before me this 1st day of September, 1977

Mora B. Luiseo
Notary Public in and for San Juan County, New Mexico

My commission expires October 5, 1980



**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.5.

5. LEASE DESIGNATION AND SERIAL NO.

SF078502

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

6. FARM OR LEASE NAME

Vandewart A

9. WELL NO.

1 A (PM)

10. FIELD AND POOL, OR WILDCAT

Blanco P.C. Ext.
Blanco Mesa Verde

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

Sec. 11, T-29-N, R-8-W
NMPM

12. COUNTY OR PARISH

San Juan

13. STATE

New Mexico

19. ELEV. CASINGHEAD

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other _____

b. TYPE OF COMPLETION:

NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other _____

2. NAME OF OPERATOR

El Paso Natural Gas Company

3. ADDRESS OF OPERATOR

P. O. Box 990, Farmington, New Mexico 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface 800' S, 800' E

At top prod. interval reported below

At total depth

14. PERMIT NO.

DATE ISSUED

15. DATE SPUDDED

6-4-77

16. DATE T.D. REACHED

6-14-77

17. DATE COMPL. (Ready to prod.)

8-29-77

18. ELEVATIONS (DF, REB, RT, GR, ETC.)*

6396' GR

20. TOTAL DEPTH, MD & TVD

5708'

21. PLUG, BACK T.D., MD & TVD

5690'

22. IF MULTIPLE COMPL., HOW MANY*

2

23. INTERVALS DRILLED BY

ROTARY TOOLS

CABLE TOOLS

0-5708'

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

3102-3166 (PC)

4737-5665 (MV)

25. WAS DIRECTIONAL SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

IES, IL-GR; CDL-GR; A.I.D.; Temp. Survey

27. WAS WELL CORED

No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9 5/8"	36#	224'	13 3/4"	224 cf	
7"	20#	3533'	8 3/4"	327 cf	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
4 1/2"	3366'	5708'	415 cf		1 1/2"	3160'	3250'
					2 3/8"	5595'	

31. PERFORATION RECORD (Interval, size and number)

3102-12, 3126-36, 3152-56, 3162-66 w/ 10 SPZ
 4737-50, 4842-58, 4882-91, 5013-21, 5031-39,
 5096-5103, 5116-24 w/16 SPZ. 5302-16, 5333-42,
 5361-67, 5377-91, 5400-06 5429-33, 5443-53 w/14 SPZ,
 5488-96, 5507-11, 5551-59, 5576-81, 5646-50, 5660-65 w/10 SPZ.

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
3102-3166'	28,000 # sd; 35,050 gal. wtr.
4737-5124'	69,000 # sd; 74,500 gal. wtr.
5302-5453'	63,000 # sd; 69,500 gal. wtr.
5488-5665'	13,300 # sd; 20,050 gal. wtr.

33. PRODUCTION

DATE FIRST PRODUCTION

PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)

Flowing

WELL STATUS (Producing or shut in)

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GRAVITY-API (CORR)
P.C. 8-29-77							
M.V. 8-22-77	3	3/4"					
FLOW, TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	P.C.—MCF.	WATER—BBL.		
P.C. SI 771							
M.V. SI 620	P.C. SI 771						

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

TEST WITNESSED BY
N. Waggoner, D. Wright

35. LIST OF ATTACHMENTS

RECEIVED

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

D. G. Dwyer

TITLE

SEP 14 1977
Drilling Clerk

DATE

9-1-77

*(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: 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			38. GEOLOGIC MARKERS				
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TOP	TRUE VERT. DEPTH
				P. C.	3101		
				M. V.	4728		
				P. L.	5296		