

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE January 3, 1979

Operator El Paso Natural Gas Company		Lease Rincon Unit #79-A	
Location NW 17-27-06		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5748'	Tubing: Diameter 2 3/8	Set At: Feet 5688'
Pay Zone: From 4767	To 5707'	Total Depth: 5748'	Shut In 12-14-78
Stimulation Method Sandwater Frac		Flow Through Casing	Flow Through Tubing

Choke Size, Inches		Choke Constant: C			
Shut-In Pressure, Casing, PSIG 655	+ 12 = PSIA 667	Days Shut-In 20	Shut-In Pressure, Tubing PSIG 475	+ 12 = PSIA 487	
Flowing Pressure: P PSIG	+ 12 = PSIA		Working Pressure: P _w PSIG	+ 12 = PSIA	
Temperature: T = °F F _t =	n =		F _{pv} (From Tables)	Gravity F _g =	

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

Q =

= _____ MCF/D

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

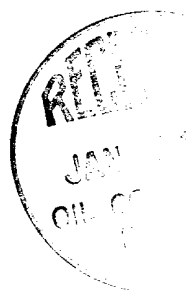
$$Aof = \left(\frac{\quad}{\quad} \right)^n =$$

Aof = _____ MCF/D

TESTED BY Noel Rodgers

WITNESSED BY _____

C.R. Wagner
Well Test Engineer



EL PASO NATURAL GAS COMPANY

DEVIATION REPORT

Name Of Company El Paso Natural Gas Company				Address P. O. Box 289, Farmington, New Mexico			
Lease RINCON UNIT	Well No. 79A	Unit Letter D	Section 17	Township 27N	Range 6W		
Pool BLANCO MESA VERDE				County RIO ARRIBA			

DEPTH	DEVIATION
224'	1/2°
723'	3/4°
1215'	3/4°
1496'	1°
1996'	1°
2493'	1 1/4°
2712'	1 1/4°
3112'	1 1/4°
3430'	1°
3930'	1°
4430'	3/4°
4845'	1°
5345'	1°
5748'	1°



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.

William J. Anderson

Subscribed and sworn to before me this 15 day of January, 1979.

Nora P. Buisco

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 in-
structions on
reverse side)Form approved.
Budget Bureau No. 42-R355.5.

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 CO.						7. UNIT AGREEMENT NAME Rincon Unit	
3. ADDRESS OF OPERATOR BOX 289, FARMINGTON, NEW MEXICO						8. FARM OR LEASE NAME Rincon Unit	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 1110'N, 730'W At top prod. interval reported below At total depth						9. WELL NO. 79A	
14. PERMIT NO.						13. STATE New Mexico	
15. DATE SPUDDED 9/14/78						10. FIELD AND POOL, OR WILDCAT Blanco Mesa Verde	
16. DATE T.D. REACHED 9/22/78						11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Sec. 17, T-27-N, R-6-W NMPM	
17. DATE COMPL. (Ready to prod.) 1/3/79						12. COUNTY OR PARISH Rio Arriba	
18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 6461 GL						19. ELEV. CASINGHEAD	
20. TOTAL DEPTH, MD & TVD 5748'		21. PLUG, BACK T.D., MD & TVD 5730'		22. IF MULTIPLE COMPL., HOW MANY*		23. INTERVALS DRILLED BY ROTARY TOOLS CABLE TOOLS 0-5748'	
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 4767-5707 (MV)						25. WAS DIRECTIONAL SURVEY MADE no	
26. TYPE ELECTRIC AND OTHER LOGS RUN Ind.-GR; CDL-GR; 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	
9 5/8"		32.3#		216'		13 3/4"	
7"		20#		3437'		8 3/4"	
29. LINER RECORD							
SIZE		TOP (MD)		BOTTOM (MD)		SACKS CEMENT*	
4 1/2"		3275'		5748'		426 cf.	
30. TUBING RECORD							
SIZE		DEPTH SET (MD)		PACKER SET (MD)			
2 3/8"		5688'					
31. PERFORATION RECORD (Interval, size and number) 4767, 4789, 4796, 4803, 4810, 4824, 4831, 4838, 4845, 4852, 4988, 5094 with 1 SPZ. 5287, 5292, 5297, 5302, 5318, 5325, 5336, 5342, 5348, 5368, 5372, 5391, 5432, 5474, 5516, 5562, 5574, 5593, 5666, 5707 w/1SPZ.							
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.							
DEPTH INTERVAL (MD)				AMOUNT AND KIND OF MATERIAL USED			
4767-5094				42,500#20/40sand; 95,000 gal.wtr.			
5287-5707				61,500#20/40sand; 123,000 gal.wtr.			
33. PRODUCTION							
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) After Frac Gauge - 368 MCF/D				WELL STATUS (Producing or shut-in) SI	
DATE OF TEST 1/3/79		HOURS TESTED		CHOKE SIZE		PROD'N. FOR TEST PERIOD	
FLOW. TUBING PRESS.		CASING PRESSURE		CALCULATED 24-HOUR RATE		OIL—BBL. MCF.	
SI 487		SI 667				WATER—BBL. OIL GRAVITY-API (CORR.)	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)							
35. LIST OF ATTACHMENTS							
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available data.							
SIGNED <i>J. G. Davis</i>		TITLE <i>Drilling Clerk</i>		DATE <i>JAN 26 1979</i>		U. S. GEOLOGICAL SURVEY DURANGO, COLO 81305 DATE <i>1/15/79</i>	

*(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

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	38. GEOLOGIC MARKERS		
				NAME	MEAS. DEPTH	TRUE VERT. DEPTH
				MV PL	4762 5279	