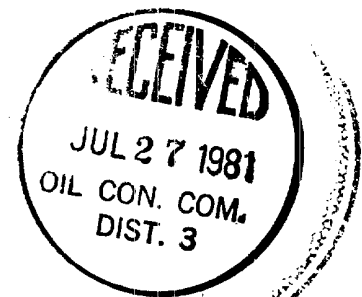


EL PASO NATURAL GAS COMPANY

DEVIATION REPORT

Name of Company EL PASO NATURAL GAS COMPANY		Address BOX 289, FARMINGTON, NEW MEXICO			
Lease Rincon Unit	Well No. 230	Unit M	Section 28	Township 27-North	Range 7-West
Pool Largo Chacra			County Rio Arriba		

<u>DEPTH</u>	<u>DEVIATION</u>	<u>DEPTH</u>	<u>DEVIATION</u>
133'	1/4°		
533'	1/4°		
1033'	1/4°		
1540'	1/4°		
1878'	1/4°		
2600'	1/2°		
3154'	1/2°		
3676'	1/2°		
4094'	3/4°		



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.

Don Read

Subscribed and sworn to before me this 22nd day of August, 19. 81

Lara G. Brisco

Notary Public in and For San Juan County, New Mexico

My commission expires October 5, 1984

All distances must be from the outer boundaries of the Section.

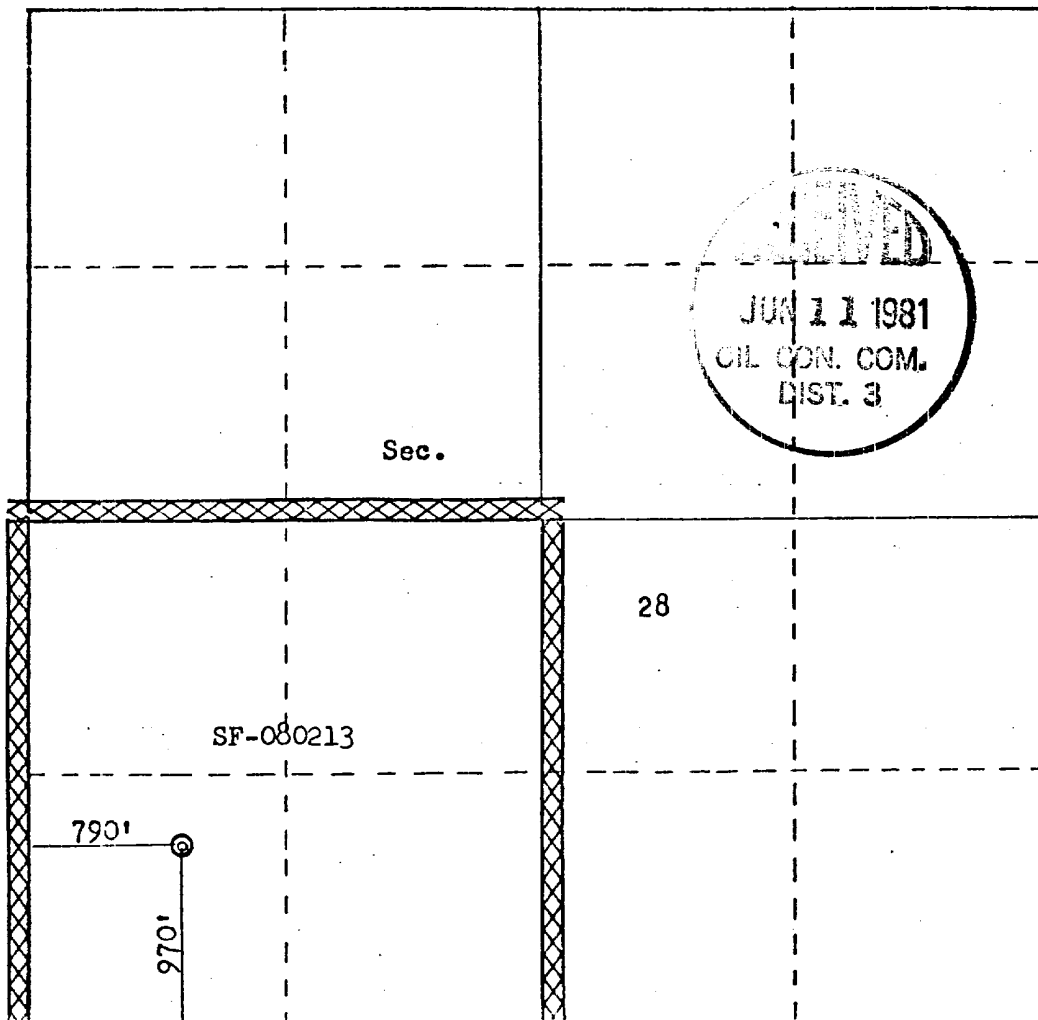
Operator EL PASO NATURAL GAS COMPANY			Lease RINCON UNIT (SF-080213)		Well No. 230
Unit Letter M	Section 28	Township 27N	Range 7W	County Rio Arriba	
Actual Footage Location of Well: 970 feet from the South line and 790 feet from the West line					
Ground Level Elev. 6662	Producing Formation CHACRA		Pool LARGO CHACRA	Dedicated Acreage: 160.00 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☒ Yes ☐ No If answer is "yes," type of consolidation Unitization

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.)

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission. PLAT REISSUED TO SHOW CORRECTED ELEVATION 6-2-1981



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Don P. Buies

Name

Drilling Clerk

Position

El Paso Natural Gas Company

Company

June 8, 1981

Date

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed

August 25, 1980

Registered Professional Engineer and Land Surveyor

Fred B. Kerr Jr.

Certification No.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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 Form 9-331-C for such proposals.)

1. oil ☐ well ☐ gas well ☒ other

2. NAME OF OPERATOR
El Paso Natural Gas Company

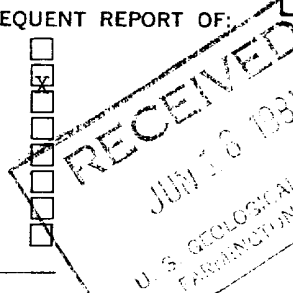
3. ADDRESS OF OPERATOR
P.O. Box 289, Farmington, NM 87401

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 970'S, 790'W
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:
TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐
(other) ☐

SUBSEQUENT REPORT OF:



5. LEASE
SF 080213

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
Rincon Unit

8. FARM OR LEASE NAME
Rincon Unit

9. WELL NO.
230

10. FIELD OR WILDCAT NAME
Largo Chacra

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 28, T-27-N, R-7-W
NMPM

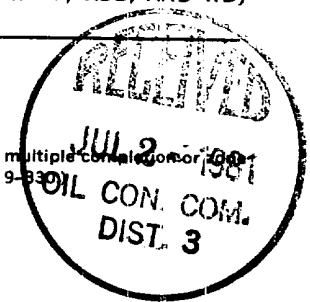
12. COUNTY OR PARISH
Rio Arriba

13. STATE
New Mexico

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
6746' GL

(NOTE: Report results of multiple completion or log change on Form 9-330)



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.)*

6-16-81: PBSD 4084'. Tested casing to 4000#, OK. Perfed: 3863, 3868, 3904, 3929, 3934, 4042, 4054, 4068' W/1 SPZ. Fraced w/ 62,034# 20/40 sand, 66,234 gal. wtr. Flushed w/ 1974 gal. wtr.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

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

SIGNED A. G. Susco TITLE Drilling Clerk DATE June 17, 1981

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

ACCEPTED FOR RECORD

NMOCC

JUL 01 1981

*See Instructions on Reverse Side

BY Dan Elliott
FARMINGTON DISTRICT

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special						Test Date 7-16-81			
Company El Paso Natural Gas Company				Connection El Paso Natural Gas Company					
Pool Largo				Formation Chacra				Unit Rincon	
Completion Date 7-9-81		Total Depth 4094'		Plug Back TD 4084'		Elevation 6661'		Farm or Lease Name Rincon	
Csg. Size 2.875	Wt. 6.5	d 2.441	Set At 4094	Perforations: From 3863 To 4068		Well No. 230			
Tub. Size No Tubing	Wt.	d	Set At	Perforations: From To		Unit M	Sec. 28	Twp. 27	Rye. 07
Type Well - Single - Broadhead - G.C. or G.O. Multiple single						Packer Set At		County Rio Arriba	
Producing Thru Casing		Reservoir Temp. °F p		Mean Annual Temp. °F		Baro. Press. - P _a 12		State New Mexico	
L	H	G _g	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run	Taps	

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI									927		7 days
1.											
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_{in}}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1							
2							
3							
4							
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature	Mcf, bbl.	Deq.
1												
2												
3												
4												
5												

NO.	P _t	P _w	P _u	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_t^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_t^2 - P_w^2} \right]^n =$
1						
2						
3						
4						
5						

NO.	P _t	P _w	P _u	P _c ² - P _w ²	AOI = Q $\left[\frac{P_c^2}{P_t^2 - P_w^2} \right]^n =$
1					
2					
3					
4					
5					

Approved By Division	Conducted By: Glen Spencer	Calculated By: Ed Mabe	Checked By:
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