

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE\*  
(Other instructions on re-  
verse side)

Form approved.  
Budget Bureau No. 1004-0135  
Expires August 31, 1985

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 WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER	5. LEASE DESIGNATION AND SERIAL NO. SF 079491A
2. NAME OF OPERATOR El Paso Natural Gas Company	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR Post Office Box 4289, Farmington, NM 87499	7. UNIT AGREEMENT NAME San Juan 27-5 Unit
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1800'S, 1540'W	8. FARM OR LEASE NAME San Juan 27-5 Unit
14. PERMIT NO. OCT 31 1985	9. WELL NO. 113A
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 7314'GL	10. FIELD AND POOL, OR WILDCAT Blanco Mesa Verde
	11. SEC. T. R. M., OR BLK. AND SURVEY OR AREA Sec. 10, T. 27-N, R-5-W N.M.P.M.
	12. COUNTY OR PARISH   13. STATE Rio Arriba   NM

RECEIVED

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

BUREAU OF LAND MANAGEMENT  
FARMINGTON RESOURCE AREA

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PCLL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

Spud Well

(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.)\*

10-28-85 Spudded well at 5:00 p.m. 10-28-85. Drilled to 232'. Ran 5 jts. 9 5/8", 32.3#, H-40 surface casing set at 228'. Cemented with 115 sks. Class "B", with 1/4# gel flake/sk, 3% calcium chloride, (136 cu.ft.). Circulated to surface. WOC 12 hours. Tested 600#/30 minutes, held ok.

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NOV 04 1985  
OIL CON. DIV.  
DIST. 3

18. I hereby certify that the foregoing is true and correct  
SIGNED [Signature] TITLE Drilling Clerk DATE 10-30-85  
(This space for Federal or State office use)

ACCEPTED FOR RECORD

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE NOV 6 1985  
CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

NMOCC

FARMINGTON RESOURCE AREA  
BY \_\_\_\_\_

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE\*  
(Other instructions on re-  
verse side)

Form approved.  
Budget Bureau No. 1004-0135  
Expires August 31, 1985

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 WELL  GAS WELL  OTHER

2. NAME OF OPERATOR  
El Paso Natural Gas Company

3. ADDRESS OF OPERATOR  
Post Office Box 4289, Farmington, NM 87499

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface  
1800'S, 1540'W

5. LEASE DESIGNATION AND SERIAL NO.  
SF 079491A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME  
San Juan 27-5 Unit

8. FARM OR LEASE NAME  
San Juan 27-5 Unit

9. WELL NO.  
113A

10. FIELD AND POOL, OR WILDCAT  
Blanco Mesa Verde

11. SEC. T, R, M., OR BLK. AND SURVEY OR AREA  
Sec. 10, T-27-N, R-5-W  
N.M.P.M.

12. COUNTY OR PARISH 13. STATE  
Rio Arriba NM

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14. PERMIT NO.  
NOV 13 1985

15. ELEVATIONS (Show whether DF, RT, GR, etc.)  
7314'GL

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

BUREAU OF LAND MANAGEMENT  
FARMINGTON RESOURCE AREA

PURPOSE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>Running Casing</u>	
(Other) <input type="checkbox"/>		(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.)\*

11-6-85 TD 4505'. Ran 110 jts. 7", 20.0 & 23.0#'s, K-55 casing 4461' set @ 4474'. Float collar set @ 4394'. Cemented with 99 sks. Class "B", 65/35 POZ mix, 6% gel, 2% calcium chloride, 1/2 cu ft perlite/sk (191 cu.ft.) followed by 100 class B, 2% calcium chloride (118 cu ft). WOC 18 hrs. Top of cement set @ 2600'.

11-9-85 TD 6771'. Ran 60 jts. 4 1/2", 10.5 & 11.6#'s, K-55 casing liner 2454' set @ 6770'. Float collar set at 6753'. Top of liner set @ 4316'. Cmt'd w/50 class B sks, 50/50 POZ mix, 2% gel, 0.6% Halad-9 (84 cu ft), followed by 230 class B, 50/50 POZ mix, 2% gel, 6.25# Gilsonite. 1/4# Flocele, 0.6% Halad-9 (337 cu ft). WOC 18 hrs.

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OIL CON. DIV.  
DIST. 3

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

SIGNED [Signature] TITLE Drilling Clerk DATE 11-12-85

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

RECORDED FOR RECORD  
DATE

1985

\*See Instructions on Reverse Side

NMOCC

FARMINGTON RESOURCE AREA

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

DEVIATION REPORT

Name of Company El Paso Natural Gas Company			Address PO Box 4289, Farmington, NM			
Lease San Juan 27-5 Unit	Well No. 113A	Unit/Letter K	Section 10	Township 27N	Range 5W	
Pool Blanco Mesa Verde			County Rio Arriba			

<u>Depth (Ft.)</u>	<u>Deviation (Degrees)</u>
230	1/2
738	1/2
1226	3/4
1738	3/4
2258	1
2300	1
2805	1
3324	1 1/4
3840	1 1/4
4360	1
4505	1 1/2
5015	1 1/4
5512	1 1/2
6770	2

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JAN 07 1986

OIL CON. DIV  
DIST. 3

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 herein are true to the best of my knowledge and belief.

Donald C. Leal

Subscribed and sworn to before me this 14th day of November, 19 85.

Seamus P. Walsh  
Notary Public in and for San Juan County, New Mexico

My Commission expires August 17, 1988.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE\*

Form approved.  
Budget Bureau No. 1004-0137  
Expires August 31, 1985

WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

5. LEASE DESIGNATION AND SERIAL NO.  
SF 079491A

6. IF INDIAN ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME  
San Juan 27-5 Unit

8. FARM OR LEASE NAME  
San Juan 27-5 Unit

9. WELL NO.  
113A

10. FIELD AND POOL OR WILDCAT  
Blanco Mesa Verde

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA  
Sec. 10, T-27-N, R-5-  
NMPM

12. COUNTY OR PARISH  
Rio Arriba

13. STATE  
NM

1a. TYPE OF WELL: OIL WELL  GAS WELL  DRY  Other

b. TYPE OF COMPLETION: NEW WELL  WORK OVER  DEEP-EN  PLUG BACK  DIFF. DESIGNER  Other

2. NAME OF OPERATOR  
El Paso Natural Gas Company

3. ADDRESS OF OPERATOR  
P. O. Box 4289, Farmington, NM 87499

4. LOCATION OF WELL (Report location clearly and in accordance with BLM Form 3160-1)  
At surface 1800'S, 1540'W

At top prod. interval reported below  
At total depth

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BUREAU OF LAND MANAGEMENT  
FARMINGTON RESOURCE AREA  
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JAN 13 1986

OIL CON. DIV.  
DIST. 3

14. PERMIT NO. \_\_\_\_\_

15. DATE SPUDDED 10-28-85 16. DATE T.D. REACHED 11-9-85 17. DATE COMPL. (Ready to prod.) 1-2-86 18. ELEVATIONS (DP, RNB, RT, GR, ETC.)\* 7314' GL 19. ELEV. CASINGHEAD 7314'

20. TOTAL DEPTH, MD & TVD 6771' 21. PLUG BACK T.D., MD & TVD 6753' 22. IF MULTIPLE COMPL. HOW MANY\* One 23. INTERVALS DRILLED BY Rotary

24. PRODUCING INTERVAL(S) OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\* 5089-6462' (Blanco Mesa Verde) 25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN Temp Survey; Comp. Densilog Linear Neutron GR; Comp. DLP/N/GR Ind. Electrolog; Correlation GR-L; Sidewall Neutron GR; Ind. Electrolog GR] 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 FILLED
9 5/8"	32.3#	228'	12 1/4"	136 cu ft	
7"	20.0&23.0#	4474'	8 3/4"	309 cu ft	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
4 1/2"	4316'	6770'	421 cu ft	

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8"	6441'	

31. PERFORATION RECORD (Interval, size and number) Pressure test to 3500 psi-ok. Perf'd 6309, 6326, 6330, 6334, 6338, 6342, 6346, 6350, 6361, 6371, 6375, 6379, 6387, 6391, 6395, 6399, 6405, 6426, 6429, 6439, 6446, 6454, 6458, 6462, w/ 1 SPZ, 2nd stage 5798, 5803, 5818, 5826.

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
6309-6462'	44,500# 20/40 sand & 110,340 gal slickwater
5798-5941'	35,500# 20/40 sand & 86,460 gal slickwater

\* Continued Perf's listed back pg. 1 PRODUCTION 5089-5285' 51,000# 20/40 sand & 72,950 gal. treated wtr.

DATE FIRST PRODUCTION 11-19-85 PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing - Capable of Comm. HC to be tested when connected. WELL STATUS (Producing or shut-in) Shut in

DATE OF TEST	HOURS TESTED	CHOKER SIZE	PRD'N FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
1-2-86	SI 7 Days	0		0	0	0	0

FLOW, TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
SI 918	SI 918		No Flow	No Flow	No Flow	0

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Shut in to be Sold TEST WITNESSED BY Gary Osborne

35. LIST OF ATTACHMENTS Temp Survey ACCEPTED FOR RECORD

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

SIGNED [Signature] TITLE Drilling Clerk DATE 1-6-86

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

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	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
Chacra	5084'	5788'	Gry fn grn silty, glauconitic sd stone w/drk gry shale	Chacra	5084'	
Cliff House	5788'	5945'	ss. Gry, fine-grn, dense sil ss.	Cliff House	5788'	
Menefee	5945'	6292'	Gry, fine-grn s, carb sh & coal	Menefee	5945'	
Point Lookout	6292'	6770'	Gry, very fine sil ss w/frequent sh breaks	Point Lookout	6292'	
* Continued Perfs: 5863, 5877, 5888, 5892, 5906, 5911, 5916, 5921, 5926, 5931, 5936, 5941' w/SPZ. 3rd stage 5089, 5095, 5120, 5127, 5133, 5144, 5151, 5179, 5276, 5285' w/1 SPZ.						

NEW MEXICO OIL CONSERVATION COMMISSION  
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122  
Revised 9-1-65

Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special					Test Date 01-02-86						
Company El Paso Natural Gas				Connection							
Pool Blanco				Formation Mesa Verde				Unit			
Completion Date 01-02-85		Total Depth 6771		Plug Back TD 6753		Elevation 7304 GR		Farm or Lease Name S.J. 27-5 Unit			
Csg. Size 7.000	Wt. 20	d 6.456	Set At 4474	Perforations: From 5089*    To 6309		Well No. #113A					
Thg. Size 2.375	Wt. 4.7	d 1.995	Set At 6441	Perforations: From                      To		Unit K	Sec. 10	Twp. 27	Rge. 05		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single					Packer Set At None		County Rio Arriba				
Producing Thru Thg. L		Reservoir Temp. *F #		Mean Annual Temp. *F		Baro. Press. - P <sub>a</sub>		State New Mexico			
L		H		G <sub>g</sub>		% CO <sub>2</sub>		% N <sub>2</sub>			
						% H <sub>2</sub> 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 <sub>w</sub>	Temp. *F	Press. p.s.i.g.	Temp. *F	Press. p.s.i.g.	Temp. *F	Duration of Flow
SI							918		918		7 Days
1.											
2.											
3.											
4.											
5.											
RATE OF FLOW CALCULATIONS											
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P <sub>m</sub>	Flow Temp. Factor Ft.	Gravity Factor F <sub>g</sub>	Super Compress. Factor, F <sub>pv</sub>	Rate of Flow Q, Mcfd				
1.											
2.											
3.											
4.											
5.											
NO.	R <sub>t</sub>	Temp. *R	T <sub>r</sub>	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.						
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.						
2.					Specific Gravity Separator Gas _____		X X X X X X X X				
3.					Specific Gravity Flowing Fluid _____		X X X X X				
4.					Critical Pressure _____ P.S.I.A.		_____ P.S.I.A.				
5.					Critical Temperature _____ R		_____ R				
NO.	P <sub>t</sub> <sup>2</sup>	P <sub>w</sub>	R <sub>w</sub> <sup>2</sup>	P <sub>c</sub> <sup>2</sup> - R <sub>w</sub> <sup>2</sup>	(1) $\frac{P_c^2}{P_c^2 - R_w^2} =$ _____		(2) $\left[ \frac{P_c^2}{P_c^2 - R_w^2} \right]^n =$ _____				
1.					AOF = Q $\left[ \frac{P_c^2}{P_c^2 - R_w^2} \right]^n =$ _____						
2.											
3.											
4.											
5.											
Absolute Open Flow _____				Mcf @ 15.025				Angle of Slope @ _____		Slope, n _____	
Remarks: _____											
*4 1/2" Liner 4318' - 6770'.											
Approved By Commission:			Conducted By: Gary Osborne			Calculated By: Scott H. Lindsay			Checked By: kld		

**RECEIVED**  
JAN 06 1986

**OIL CON. DIV.**  
DIST. ?