OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 3-6-81	
Company: El Paso Natural Gas Company		Connection: El Paso Natural Gas Company			
Pool: Undesignated Pictured Cliffs		Formation: Pictured Cliffs		Unit: San Juan 28-7	
Completion Date: 2-24-81	Total Depth: 6116	Plug Back TD: 6098	Elevation: 6652 GR	Farm or Lease Name: San Juan 28-7 Unit	
Csg. Size: 7.000 / Wt.: 20 / d: 6.456 / Set At: 3739		Perforations: From 3434 To 3497		Well No.: #33A	
Tbg. Size: 1.660 / Wt.: 2.33 / d: 1.380 / Set At: 3484		Perforations: From To		Unit: J / Sec.: 13 / Twp.: 28 / Rge.: 7	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: G. G. Dual		Packer Set At: 3618		County: Rio Arriba	
Producing Thru: csg	Reservoir Temp. °F: @	Mean Annual Temp. °F	Baro. Press. – P_a: 12	State: New Mexico	
L	H	Gg: 0.620	% CO_2	% N_2	% H_2S / Prover / Meter Run / Taps

NO.	FLOW DATA: Prover Line Size X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA: Press. p.s.i.g.	Temp. °F	CASING DATA: Press. p.s.i.g.	Temp. °F	Duration of Flow
SI					1011		1011		20 Days
1.	Choke 0.750	95		54	95				3 Hours
2.									
3.									
4.									
5.									

RATE OF FLOW CALCULATIONS

NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P_m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	12.365		107	1.0058	0.9837	1.009	1321
2.							
3.							
4.							
5.							

NO.	P_t	Temp. °R	T_r	Z
1.				
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas _____ XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

P_c 1023 P_c^2 1046529

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		107	11449	1035080
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2}$ = _____ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n$ = 1.0094

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n$ = 1333

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MAR 9 1981
OIL CON. COM.
DIST. 3

Absolute Open Flow 1333 Mcfd @ 15.025 | Angle of Slope θ _____ | Slope, n 0.85

Remarks: Vented 206 MCF Gas During The Test.

Approved By Division	Conducted By:	Calculated By:	Checked By:
	John Easley	H. E. McAnally	

Form 9-330
(Rev. 5-63)

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.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

5. LEASE DESIGNATION AND SERIAL NO.: SF 079290

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

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

7. UNIT AGREEMENT NAME: San Juan 28-7 Unit

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

8. FARM OR LEASE NAME: San Juan 28-7 Unit

2. NAME OF OPERATOR: El Paso Natural Gas Company

9. WELL NO.: 33A (PM)

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

10. FIELD AND POOL, OR WILDCAT: Undes PC & Blanco MV

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface: 1520'S, 1830'E
At top prod. interval reported below
At total depth

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec. 13, T-28-N, R-7-W NMPM

RECEIVED MAR 13 1981 U.S. GEOLOGICAL SURVEY FARMINGTON, N.M.

14. PERMIT NO. | DATE ISSUED

12. COUNTY OR PARISH: Rio Arriba | 13. STATE: New Mexico

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
6-19-80	6-28-80	3-9-81	6652' GL	

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
6116'	6098'	2	→	0-6116	

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: 5063-6047' (MV) 3434-3497' (PC)

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN: CDL-GR; IEL; 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"	40#	217'	13 3/4"	224 cf.	
7"	20#	3739'	8 3/4"	272 cf.	

MAR 18 1981 OIL CON. COM. DIST. 3

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
4 1/2"	3613	6116'	425	

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8"	6028	3618'
1 1/4"	3483'	

31. PERFORATION RECORD (*Interval, size and number*)
5592,5606,5620,5655,5673,5679,5696,5708,5722, 5735,5745,5750,5791,5802,5811,5854,5934,5941, 5955,6027,6047'5063,5081,5087,5122,5166,5174, 5186,5192,5327,5333,5347,5355,5380,5392,5399, 5406,5505' W/1 SPZ. 3434-36,3448-60,3460-72, 3490-97' W/14 SPZ.

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5592-6047'	71,000# sd, 223,000 gal. wtr.
5063-5505'	62,000# sd,181,000 gal. wtr.

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*)	WELL STATUS (*Producing or shut-in*)
		Shut-In

	DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
PC	3-6-81							
MV	2-25-80	3 hrs.	3/4 variable					

	FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
PC	SI						
MV	SI 825	SI 1011			PC 1333, MV	4610	

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

TEST WITNESSED BY: Joh Easley

35. LIST OF ATTACHMENTS

ACCEPTED FOR RECORD

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

SIGNED L. G. Busco TITLE Drilling Clerk DATE March 13, 1981

MAR 23 1981
FARMINGTON DISTRICT
BY RB

*(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	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Ojo Alamo	2517'	
Kirtland	2706'	
Fruitland	3149'	
Pic. Cliffs	3424'	
Chacra	4370'	
Mesa Verde	5060'	
Menefee	5163'	
Point Lookout	5578'	

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