EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DATE ____ June 14, 1979

Operator		Lease	•				
El Paso Natural	Gas Company	San Juan 28-7 Unit #48A					
Location		County	State				
NW 21-28-7		Rio Arriba	New Mexico				
Formation		Paol					
Mesa Verde		Blanco					
Casing: Diameter	Set At: Feet	Tubing: Diameter	Set At: Feet				
4.500	5317'	2 3/8	5269				
Pay Zone: From	То	Total Depth:	Shut In				
4301'	5276'	5317'	6-7-79				
Stimulation Method		Flow Through Casing	Flow Through Tubing				
Sand Wate	er Frac						

Choke Size, Inches		Choke Constant:	С			
Shut-In Pressure, Casing, 948	PSIG	+ 12 = PSIA 960	Days Shut-In	Shut-In Pressure, Tubing	PSIG	+ 12 = PSIA 955
Flowing Pressure: P	PSIG	+ 12 = PSIA		Working Pressure: Pw	PSIG	+ 12 = PSIA
Temperature:	<u>~~,~,</u>	n =		Fpv (From Tables)		Gravity
T= °F Ft=						Fg =

CHOKE	VOLUME =	: Q =	C	x	P.	×	F.	×	Fa	x	Fnv
Ç. 1011 E	100000	- -	_	_	' +	^		~	19	^	ı pv

Q =

=_____ MCF/D

OPEN FLOW = Aof = Q
$$\begin{pmatrix} & & 2 & & \\ & P_c & & \\ & P_c & P_w & \end{pmatrix}$$

Aof =
$$\left(\begin{array}{c} \\ \\ \\ \\ \\ \end{array}\right)$$
 =

JUN 19 1979 OIL CON. COM. DIST. 3

TESTED BY _____Norman Waggoner WITNESSED BY_____

Well Test Engineer

UNITED STATES

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5.	LEASE 6	. ដ <u>ូ</u>	3	Ē	つ プ ヴ
	SF 07841 7	<u> </u>		ېد	≨ 85
6.	IF INDIAN, ALL	OTTEE C	R TRIE	RE N	IAME

DEPARTMENT OF THE INTERIOR	SF 07841 7 크후경 호 화동편
GEOLOGICAL SURVEY	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
	· <u></u> 원노동하 등 중요
SUNDRY NOTICES AND REPORTS ON WELLS	7. UNIT AGREEMENT NAME
-	San Juan 28-7 Unit
(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.)	
4 "	
1. oil gas	
	9. WELL NO. 🙎 🖺 💆 🔞 💆 💆
2. NAME OF OPERATOR	48A 953 F 878
El Paso Natural Gas Company	10. FIELD OR WILDCAT NAME
3. ADDRESS OF OPERATOR	Blanco M.V.ਰੀ ਦੇ ਵੋਬੇਸ਼ੀ
P.O. Box 289, Farmington, New Mexico 87401	11. SEC., T., R., M., OR BLK. AND SURVEY OR
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17	AREA Sec. 21, T-28-N- R-7-W
below.)	N.M.P.M. = 1
AT SURFACE: 900'N, 950'W	12. COUNTY OR PARISH 13. STATE
AT TOP PROD. INTERVAL;	
AT TOTAL DEPTH:	Rio Arriba New Mexico
16 CHECK APPROPRIATE BOY TO INDICATE MATURE	14. API NO. 플램크를 및 이 변경함
 CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA 	<u> </u> = 교통하실 - 공 승규칙을
NEI ONI, ON OTHER DATA	15. ELEVATIONS (SHOW DF, KDB, AND WD)
REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:	6021' GL ਵਿੱਚ ਹੈ ਮੈਟੈਰਰ 🐪 🚉
	पूर्व के के सबबु
TEST WATER SHUT-OFF EPACTURE TREAT	
FRACTURE TREAT	TO T
SHOOT OR ACIDIZE REPAIR WELL REPAIR WELL	
PULL OR ALTER CASING	(NOTE: Report results of multiple completion or zone
MULTIPLE COMPLETE	change on Form 9–330.) - 1 6 3 6
CHANGE ZONES	ancitan collectory collectory south band from bluch collectory and built to botte be ear botte
ABANDON*	ं नेश्रहें है हुने हुने हैं
(other)	
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state	all pertinent details, and give pertinent dates
including estillated date of starting any proposed work. It wall is di	rectionally drilled -give subsurface looptions and
measured and true vertical depths for all markers and zones pertinent	t to this work.)* 돌살살살 등 목욕활동
6-4-79: PBTD 5302'. Tested casing to 3500#,	OK. Perfed Upper & Lower P.L. 4882.
4888,4909,4913,4917,4921,4926,4930,4939,4952,	4973,5000,5006,5012,5029,5036,5065
5132,5170,5203,5250,5256,5276' w/1 SPZ. Frac	ed w/67,500# 20/40 sand and 130,900
gal. water. Flushed w/6640 gal. water.	Senson a Character 100,000
gar. mater. I rabited w/ 0040 gar. water.	
6 F 70: Domfod C II C Man 4703 4707 4712 47	
6-5-79: Perfed C.H. & Men. 4301,4307,4312,43	,42,4348,4355,4362,4369,4402,4419,
4426,4440,4532,4642,4723,4739,4746,4765,4771,	4796,4815'; w/1_SPZ. Fraced w/72,000#
20/40 sand and 135,500 gal. water. Flushed w	i/6150 gal. water. 등 물문물
4426,4440,4532,4642,4723,4739,4746,4765,4771, 20/40 sand and 135,500 gal. water. Flushed w	t/6150 gal. was provided the state of the st
and the second of the second o	STATE STATE
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Subsurface Cafety Value, Many, and Torr	bens bens bens bens bens bens bens bens
Subsurface Safety Valve: Manu. and Type	Set @Ft.
18. I hereby certify that the foregoing is true and correct	The second secon
SIGNED A. Susco TITLE Drilling Cle	
	#48,500 or 11255
(This space for Federal or State office	ce use) = 35 = 5 = 1 S 11N 2 5 1070 3
APPROVED BYTITLE	DATE DATE DATE DATE DATE DATE DATE DATE
APPROVED BY TITLE TITLE	DATE SEASON COM.
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U. S. CEGLOGICAL SUPPLEMENTS DURANGO, COLO.

EL PASO NATURAL GAS CO.

DEVIATION REPORT

Name of Company						
El Paso Natural Gas		Addre P.		289, Farmington,	New Mexico	87401
Lease San Juan 28-7 Unit	Well No. U 48 A	mit D	Sec. 21	Township 28-N	Range 7-W	
Pool Blanco M.V.		Coun	ty Ri	o Arriba	<u> </u>	

DEPTH	DEVIATION
187 '	1/40
687 ' \	1/40
1224'	1/4
1724'	1/4 ⁰
2346'	1/20
2746'	1/20
2942	1/2°
3965'	1/20
4524'	1/20
5025'	1/2°
5317'	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 9tj day of July , 19 79

Notary Public in and for San Juan County, New Mexico