

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
P. O. BOX 2088
Santa Fe, New Mexico 87501

August 9, 1982

El Paso Exploration Company
1800 Wilco Bldg.
Midland, Texas 79701

Attention: Frank P. DeMasi

Administrative Order TX-94

Gentlemen:

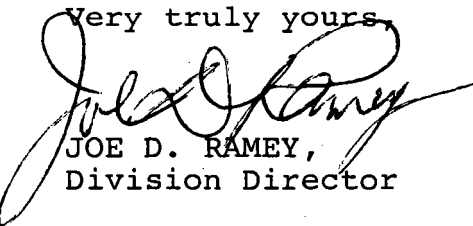
Reference is made to your request for an exception to the tubing setting requirements as contained in Division Rule 107(d)(3) for the below-named well.

Pursuant to the authority granted me by Rule 107(d)(4), you are hereby authorized to set tubing at 10,510 feet in the following well:

<u>LEASE NAME</u>	<u>WELL NO.</u>	<u>UNIT</u>	<u>S-T-R</u>
C. Carrasco Com	1	H	13-23S-27E

The Division reserves the right to rescind this authority in the event that waste appears to be resulting therefrom.

Very truly yours,


JOE D. RAMEY,
Division Director

JDR/DSN/dr

cc: Oil Conservation Division - Artesia

PV212004436176

El Paso EXPLORATION
COMPANY

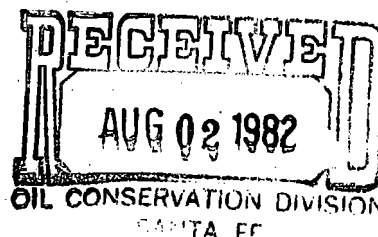
1800 WILCO BUILDING
MIDLAND, TEXAS 79701
PHONE: 915-684-5701

TX-94

July 28, 1982

Energy & Minerals Department
Oil Conservation Commission
P.O. Box 2088
Santa Fe, New Mexico 87501

Attn: Mr. D.S. Nutter



Re: El Paso C. Carrasco Com. #1
H, Sec. 13, T-23-S, R-27-E
Eddy County, New Mexico

Dear Mr. Nutter:

On June 29, 1982 we submitted correspondence to the Commission's office in Artesia, requesting an exception to Rule 107 (d) for the subject well. In reply to our correspondence your office requested that we forward additional test data including gas-liquid ratio for the well. Again production information is limited to data obtained from the back pressure test.

From the back pressure test (4 hour-4 point) an AOF of 7,126 MCFGPD was calculated, with 15 bbls of load water produced during the test period. The well began producing some water during the test period for the 3rd rate of 2,406 MCFGPD. (Test data is enclosed.)

The original BHP was 5056 psig.

Should additional information be required, please advise.

Yours truly,

Frank P. DeMasi

Frank P. DeMasi
Project Drilling Engineer

Enclosures

cc: File
Engr.

FPD/nk

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

NO. OF COPIES RECEIVED	
DISTRIBUTION	
SANTA FE	
FILE	
U.S.G.S.	
LAND OFFICE	
OPERATOR	

1. TYPE OF WELL

OIL WELL ☐GAS WELL ☒DRY ☐

OTHER

2. TYPE OF COMPLETION

NEW WELL ☒WORK OVER ☐DEEPEN ☐PLUG BACK ☐DIFF. RESVR. ☐

OTHER

Name of Operator

El Paso Natural Gas Company

Address of Operator

1800 Wilco Building - Midland, Texas 79701

Location of Well

WELL LETTER H LOCATED 2310 FEET FROM THE North LINE AND 860 FEET FROMEast LINE OF SEC. 13 TWP. 23S RGE. 27E NMPM3. Date Spudded 3-4-82 16. Date T.D. Reached 5-21-82 17. Date Compl. (Ready to Prod.) 6-21-82 18. Elevations (DF, RKB, RT, GR, etc.) GR 3053.0 19. Elev. Casinghead20. Total Depth 12,652 21. Plug Back T.D. 12,604 22. If Multiple Compl., How Many No 23. Intervals Drilled By Rotary Tools X Cable Tools

24. Producing Interval(s), of this completion - Top, Bottom, Name

12,388-12,589 Undes. Morrow

25. Type Electric and Other Logs Run

CNL-CBL-DIL-GR

OIL CONSERVATION DIVISION

No

26. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8"	48.0	405	17 1/2	530 sx Hall. Lite	None
9 3/8"	36.0	3,512	12 1/4	1675 sx Hall Lite, 4200SX C1	None
7"	26.0	10,811	8 3/4	1405 sx C1 "C"	None
4 1/2"	14.98	12,650	6 1/8	385 sx C1 "H"	None

27. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
4 1/2"	10,510	12,650	385		2 7/8	10,510	10,510

28. Perforation Record (Interval, size and number)

12,577-12,589 1-spf, .32" holes (11 holes)
12,421-12,425 " " (5 holes)
12,404-12,420 " " (15 holes)
12,388-12,400 " " (11 holes)

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

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
12,388-12,589	8,000 gal 10% MS Acid plus 1,000 cf Nitrogen per bbl

30. PRODUCTION

First Production	Production Method (Flowing, gas lift, pumping - Size and type pump)	Well Status (Prod. or Shut-in)
Shut in	Flowing	Shut in
Date of Test	Hours Tested	Choke Size
6-21-82	4 hrs	14/64
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate
2,572	pkf	
Oil - Bbl.	Gas - MCF	Water - Bbl.
-0-	3,131	15
Oil - Bbl.	Gas - MCF	Water - Bbl.
-0-	3,131	15
Oil Gravity - API (Corr.)		
-0-		

31. Disposition of Gas (Sold, used for fuel, vented, etc.)

EPNG Pipeline

Test Witnessed By

32. List of Attachments

I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.

SIGNED

John P. Deek

TITLE Supv. Prod. Svc.

DATE 7/1/82

12388
10510
1878 / 221 = distance
from top to top perf. (in 4 1/2' core)

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radioactivity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

T. Anhy	T. Canyon	T. Ojo Alamo	T. Penn. "B"
T. Salt	T. Strawn 10,810	T. Kirtland-Fruitland	T. Penn. "C"
T. Salt	T. Atoka 11,132	T. Pictured Cliffs	T. Penn. "D"
T. Yates	T. Miss	T. Cliff House	T. Leadville
T. 7 Rivers	T. Devonian	T. Menefee	T. Madison
T. Queen	T. Silurian	T. Point Lookout	T. Elbert
T. Grayburg	T. Montoya	T. Mancos	T. McCracken
T. San Andres	T. Simpson	T. Gallup	T. Ignacio Qizte
T. Glorieta	T. McKee	Base Greenhorn	T. Granite
T. Paddock	T. Ellenburger	T. Dakota	T.
T. Blinberry	T. Gr. Wash	T. Morrison	T.
T. Tubb	T. Granite	T. Todilto	T.
T. Drinkard	T. Delaware Sand 2,438	T. Entrada	T.
T. Abo	T. Bone Springs 5,886	T. Wingate	T.
T. Wolfcamp 9,230	T. Morrow 11,930	T. Chinle	T.
T. Penn.	T. Delaware Lm 2,392	T. Permian	T.
T. Cisco (Bough C)	T.	T. Penn. "A"	T.

OIL OR GAS SANDS OR ZONES

No. 1, from.....to.....	No. 4, from.....to.....
No. 2, from.....to.....	No. 5, from.....to.....
No. 3, from.....to.....	No. 6, from.....to.....

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....	feet.
No. 2, from.....to.....	feet.
No. 3, from.....to.....	feet.
No. 4, from.....to.....	feet.

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
2,392	2,438		Delaware Lm				
2,438	5,886		Delaware Sd				
5,886	9,230		Bond Spring				
9,230	10,810		Wolfcamp				
10,810	11,132		Strawn				
11,132	11,930		Atoka				
11,930	TD		Morrow				

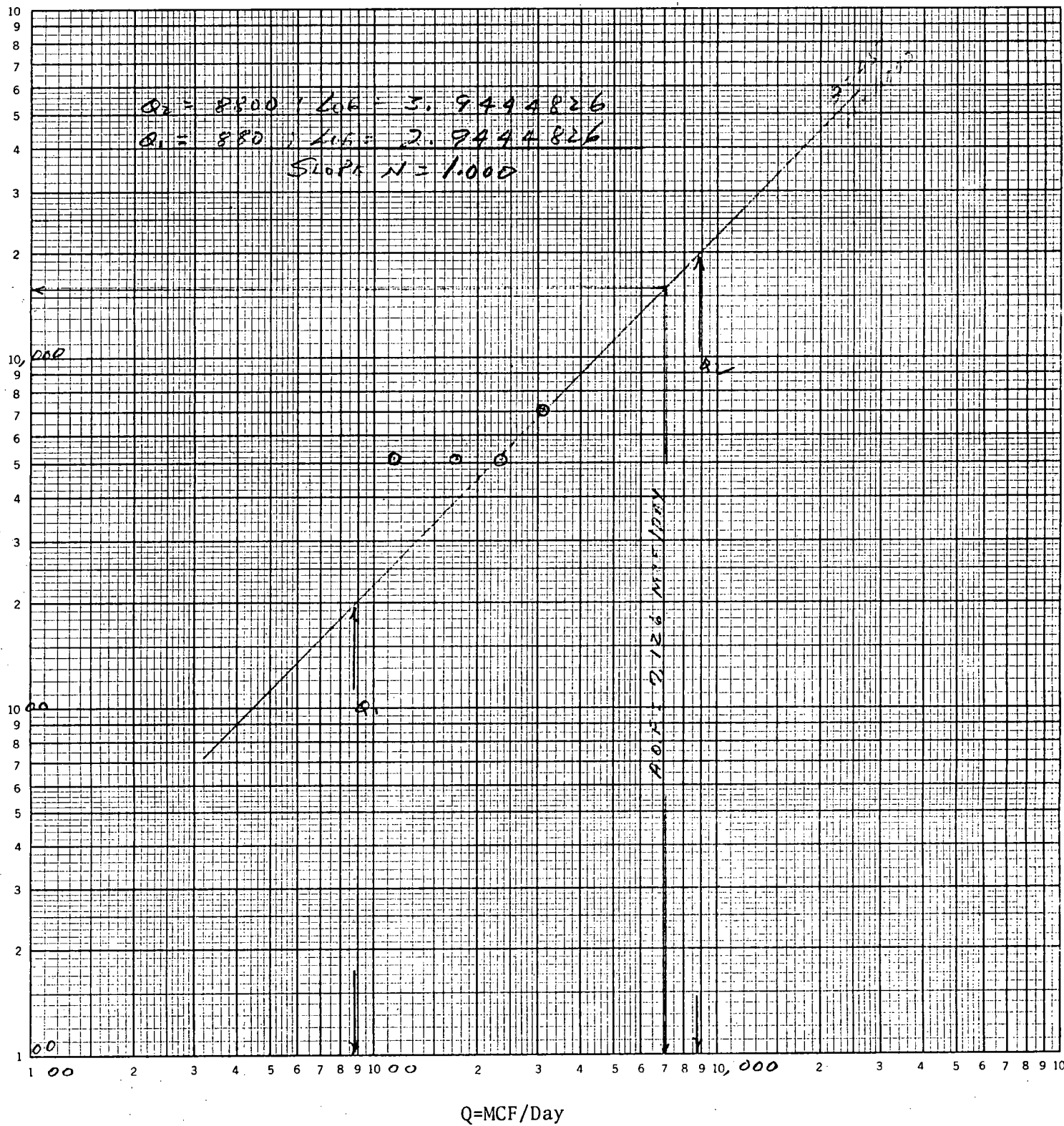
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 6-21-82	
Company EL PASO EXPLORATION COMPANY		Connection None	
Well Loving, North		Formation Morrow	
Conductivity Test 6-21-82	Total Depth 12,652	Plug Back TD 12,604	Elevation 3,068 KB
From or Lease Name C. Carrasco COM			
Casing Size 4 1/2"	Set At 12,650	Perforations From 12,388 To 12,589	Well No. 1
Hyd. Size 2 7/8"	Set At 10,531	Perforations From To	Unit H
6.5	2.441		13
Type of Test - Single - Bradenhead - G.C. or G.O. Multiple Single		Packer Set At 10,531	County Eddy
Producing Thru Tbg.	Reservoir Temp. °F 206° 12,488	Mean Annual Temp. °F	State New Mexico
L 12,488	H 12,488	G _g .572	% CO ₂ .75
		% N ₂ 1.39	% H ₂ S 0
		Provd 6" positive chokes	
FLOW DATA		TUBING DATA	
NO.	Fraser Liner Size	X	Orifice Size
			Fraser p.s.i.g.
			Temp. °F
1.	2 X 8/64		3114
2.	2 X 10/64		2862
3.	2 X 12/64		2675
4.	2 X 14/64		2572
5.			
RATE OF FLOW CALCULATIONS			
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _{ws}
			Flow Temp. Factor F _t
			Gravity Factor F _g
			Super Compress. Factor, F _{sp}
			Rate of Flow Q, Mscf/d
1	.2618		3127.2
2	.4173		2875.2
3	.6101		2688.2
4	.8419		2585.2
5			
NO.	$\bar{r}$	Temp. °R	T _g
			Z
1	4.65	539	1.56
2	4.28	534	1.54
3	4.00	545	1.58
4	3.85	538	1.55
5			
Gas Liquid Hydrocarbon Ratio _____ Mcl/bbl.		A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.	
Specific Gravity Separator Gas .572		XXXXXXXXXXXX	
Specific Gravity Flowing Fluid XXXXX			
Critical Pressure 672		P.S.I.A.	
Critical Temperature 346		°R	
3999.4		15995.2	
NO	5056.2	P _w	P _w ²
			P _w ² - P _w ²
1	4215.2	3289.3	10819.5
2	4218.2	3291.6	10834.6
3	4225.2	3298.0	10876.8
4	3857.2	2994.7	8968.2
5			
(1) $\frac{P_w^2}{P_w^2 - P_w^2} = 2.276$		(2) $\left[\frac{P_w^2}{P_w^2 - P_w^2} \right]^n = 2.276$	
FOR = 0		$\left[\frac{P_w^2}{P_w^2 - P_w^2} \right]^n = 7.126$	
Absolute Open Flow 7,126		Mcf/d @ 15.025	
Angle of Slope 45°		Slope, n 1.000	
Remarks: Est. well made approximately 15 bbls. load water.			
Well made no condensate during test.			
** Static BHP		*Flowing BHP	
Approved by Division		Checked by	
EL PASO EXPLORATION CO. Mc Murrain & McGowen		EL PASO EXPLORATION CO. J. B. Murray	

EL PASO EXPLORATION COMPANY
 C. Carrasco COM No. 1
 H-13-23-27, Eddy County, New Mexico
 June 21, 1982

46 7400

LOGARITHMIC 3 X 3 CYCLES
 KEUFFEL & ESSER CO. MADE IN U.S.A.



SUGGESTED FIELD DATA SHEET (Not Required To File)

Type Test ☒ Initial ☐ Annual ☐ Special Test Date 6-21-82										Lease No. or Serial No.	
Company EL PASO EXPLORATION COMPANY				Connection TO ATMOSPHERE				Allottee			
Field Loving, North		Reservoir Morrow		Location		Unit H					
Completion Date		Total Depth 12,652		Plug Back TD 12,604		Elevation 3068 KB		Farm or Lease Name C. Carrasco COM			
Csg. Size 4 1/2"		Wt. a		Set At 12,650		Perforations: From 12,388 To 12,589		Well No. 1			
Tbg. Size 2 7/8"		Wt. 6.5		Set At 10,531		Perforations: From To		Sec. 13 Twp.-Blk. 23 Rge.-Sur. 27			
Type Completion (Describe) Single								Packer Set At 10,531		County or Parish Eddy	
Producing Thru Tbg. 12,488		Reservoir Temp. F 206° @ 12,488		Mean Annual Temp. F 60°		Baro. Pres. - P _a 13.2		State New Mexico			
L		H 12,488		G _g		% CO ₂		% N ₂		% H ₂ S	
										Prover Meter Run Taps 6"NAT. Positive chokes	

DATE	ELAP. TIME	Wellhead Working Pressure			METER OR PROVER				REMARKS (Include liquid production data: Type-A.P.I. Gravity-Amount)
		Tbg. Psig.	Csg. Psig.	Temp. F	Pressure Psig.	Diff.	Temp. F	Orifice	
8:15		3901							SIP
9:00									Start running bomb 3hr. clock
9:50									Pulling bomb out
10:15									Out of hole with 3hr. clock
10:45									Start in hole @ tandom bomb 120 hr. clock
11:15									On bottom with tandom bomb set at 12,488
11:30		3901							SIP
11:45									Start Test
12:00		3455		90	3455		90	8/64	
12:15		3216		86	3216		86		
12:30		3135		79	3135		79		
12:45		3114		79	3114		79		1,189 MCF/Day
1:00		3052		75	3052		75	10/64	
1:15		2945		72	2945		72		
1:30		2883		78	2883		78		
1:45		2862		74	2862		74		1,754 MCF/Day
2:00		2673		67	2673		67	12/64	
2:15		2622		66	2622		66		
2:30		2618		65	2618		65		Making water @ 2:35
2:45		2675		85	2675		85		2,406 MCF/Day
3:00		2601		82	2601		82	14/64	
3:15		2594		80	2594		80		
3:30		2591		78	2591		78		
3:45		2572		78	2572		78		3,197 MCF/Day
4:00								8/64	Sample obtained
4:15		3290		78	3290		70	8/64	