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

July 16, 1982

El Paso Exploration Co.
1800 Wilco Building
Midland, Texas 79701

Attention: Frank DeMasi

Administrative Order TX-92

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 11,366 feet in the following well:

LEASE NAME	WELL NO.	UNIT	S-T-R
Federal 23	1	M	23-T26S-R30E

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
Well File

P.S. Please send test data including gas-liquid ratio for the other well for which you have requested a tubing exception: Carrasco Com. No. 1 in H-13-23S-27E.

PVZV2004435981

El Paso EXPLORATION COMPANY

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

July 13, 1982

Energy & Minerals Department
Oil Conservation Commission
P. O. Box 2088
Santa Fe, New Mexico 87501
Attn: Mr. D. S. Nutter

Re: El Paso Federal "23" #1
M, Sec. 23, T-26-S, R-30-E
Eddy County, New Mexico

Dear Mr. Nutter:

On June 30, 1982, we had submitted correspondence to the Commission's office in Artesia requesting an exception to Rule 107 (d) for the subject well. A reply to our correspondence requested that we forward production data from the well to you. To date, the only production information available is data obtained from the back pressure test and an extended flow rate test.

From the back pressure test (4 hour - 4 point), an AOF of 1338 MCFGPD was calculated, with no fluid production. (Test data is enclosed).

Results from extended flow rate test are: an extended rate AOF 801 MCFGPD; a total liquid production of 9.07 bbls of condensate (58 deg. @ 60 deg. F) and a calculated GOR of 77,000 to 1.

The original BHP was 9,809 psig.

Should additional information be required, please advise.

Yours truly,

Frank P. DeMasi

Frank P. DeMasi
Project Drlg. Engr.

FPD/jks
Enclosures

El Paso EXPLORATION COMPANY

1800 WILCO BUILDING
MIDLAND, TEXAS 79701

PHONE: 915-684-5701

June 30, 1982

Energy & Minerals Department
Oil Conservation Commission
P. O. Drawer DD
Artesia, New Mexico 88210
Attn: Mr. W. A. Gressett

Re: El Paso Federal "23" #1
M, Sec. 23, T-26-S, R-30-E
Eddy County, New Mexico

Dear Sir:

It is respectfully requested that an exception to Rule 107 (d) be allowed for the subject well.

At the present time the 2 7/8" tubing is landed in the 4 1/2" liner top at 11,356' and the uppermost perforation is at 12,266'. The downhole equipment consists of a locator sub, a 10' blast joint, a BOT seal mandrel (w/2 sets of seals) and a mule shoe guide bottom.

This configuration was considered the most practical because of the unknown nature of the intervals to be tested in this wildcat well.

Yours truly,

Frank P. DeMasi

Frank P. DeMasi
Project Drilling Engr.

FPD/jks

DeMasi called Jerry Sexton 7/12 - will test data as soon as possible. Joe

cc: File

Frank:
We'll need production information on the well, Oil, Gas, Water.
Forward this information to D. S. Nutter, OCD, Box 2088, Santa Fe, NM, 87501. Joe D. Ramey

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.: USA NM 15311

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

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

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

RECEIVED
JUL 16 1982
OIL CONSERVATION DIVISION
SANTA FE

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: El Paso Federal 23

9. WELL NO.: 1

2. NAME OF OPERATOR: El Paso Natural Gas Company

3. ADDRESS OF OPERATOR: 1800 Wilco Building - Midland, Texas 79701

10. FIELD AND POOL, OR WILDCAT: Ross Draw

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface: 660' FSL & 660' FWL
At top prod. interval reported below
At total depth

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec. 23, T-26-S, R-30-E

14. PERMIT NO.	DATE ISSUED	12. COUNTY OR PARISH	13. STATE
NA		Eddy	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
1-24-82	4-7-82	5-8-82	Gr. 3042	3402

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
12,820	12,774		→	X	

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: 12,266 - 12,302 Wolfcamp Detrital

25. WAS DIRECTIONAL SURVEY MADE: NO

26. TYPE ELECTRIC AND OTHER LOGS RUN: DIL CBL CND CPL

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
13 3/8	48.0	346	17½	375 sxs. Class "C"	None
9 5/8	36.0	3,614	12¼	2,200 sxs. Class "C"	None
7	36.0	11,701	8 3/4	1.975 sxs. Class "H"	None

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
4 ½	11,355	12,819	180	

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 7/8	11,366	11,366

31. PERFORATION RECORD (*Interval, size and number*): 12,266 - 12,302

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
12,266-12,302	3500 gals. 7½% BDA and 74 Ball Sealers

33.* PRODUCTION

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

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
5/11-12/82	24	8.5/64		9.07	712	-0-	78,500-1

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
3265	PKR		9.07	712	-0-	58 deg.

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

TEST WITNESSED BY:

35. LIST OF ATTACHMENTS

12,266
11,366
900

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

SIGNED John D. Peek TITLE Supervisor Prod. Services DATE June 22,1982

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

MULTIPOINT A ONE POINT BACK PRESSURE TE FOR GAS WELL

JUL 16 1982

Type Test: [X] Initial [ ] Annual [ ] Special			Test Date: 5/11-12/82	
Company: EL PASO NATURAL GAS COMPANY	Connection: NONE			SANTA FE
Pool: Ross Draw	Formation: Wolfcamp			Unit
Completion Date: 5-11-82	Total Depth: 12,819	Plug Back TD: 12,774	Elevation	Farm or Lease Name: EP Fed. 23
Csg. Size: 4½ / Wt.: 12.7 / d: 3.958 / Set At: 12,774	Perforations: From 12,266 To 12,302			Well No.: 1
Tbg. Size: 2 7/8 / Wt.: 6.5 / d: 2.441 / Set At: 11,366	Perforations: From To			Unit: M / Sec.: 23 / Twp.: 26 / Rge.: 30
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single	Packer Set At: 11,366			County: Eddy
Producing Thru: Tbg.	Reservoir Temp. °F: 200 @ 12,000	Mean Annual Temp. °F	Baro. Press. – P_a: 13.2	State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
*12000	*12000	.617	.38	.41	-0-		4"	Flg.

NO.	Prover Line Size X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA Press. p.s.i.g.	TUBING DATA Temp. °F	CASING DATA Press. p.s.i.g.	CASING DATA Temp. °F	Duration of Flow
SI					8035		PKR		72+ hrs.
1.	4 X 1.000	517	4.00	109	7835		"		1 hr.
2.	4 X 1.000	523	9.00	103	7570		"		1 hr.
3.	4 X 1.000	532	29.00	83	6555		"		1 hr.
4.	4 X 1.000	537	52.00	89	5130		"		1 hr.
5.	4 X 1.000	529	25.00	93	3265		"		20 hrs.

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	4.753	46.05	530.2	.9560	1.273	1.032	275
2.	4.753	69.47	536.2	.9610	1.273	1.033	417
3.	4.753	125.74	545.2	.9786	1.273	1.043	777
4.	4.753	169.15	550.2	.9732	1.273	1.044	1040
5.	4.753	116.43	542.2	.9697	1.273	1.043	712 ✓

NO.	P_t	Temp. °R	T_c	Z
1	.79	569	1.57	.939
2.	.80	563	1.56	.938
3.	.81	543	1.50	.919
4.	.82	549	1.52	.918
5	.81	553	1.53	.919

Gas Liquid Hydrocarbon Ratio: 77.0 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: 58° Deg.
Specific Gravity Separator Gas: .617 XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX G-MIX .655
Critical Pressure: 671 P.S.I.A. ____ P.S.I.A.
Critical Temperature: 362 R ____ R

***8239.7 P_c^2 67892.7

NO	P_w	P_w^2	$P_c^2 - P_w^2$
1**	9630.2	8060.7	64974.9	2917.8
2**	9346.2	7794.3	60751.1	7141.6
3**	8235.2	6759.0	45684.1	22208.6
4**	5091.2	5091.2	25920.3	41972.4
5		3705.1	13727.8	54164.9

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.618$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.287$

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.338$

Absolute Open Flow: 1,338 Mcfd @ 15.025 Angle of Slope θ: 62.5° Slope, n: .525

Remarks: Made 9.07 bbls. 58° condensate during test.
*=BHP Instrument set
=Flowing BHP *=Static BHP = 9822.2

Approved by Division	Conducted by:	Calculated by:	Checked by:
	EL PASO EXPLORATION CO. Reston & McMurrain	EL PASO EXPLORATION CO. J. B. Murray	

EL PASO NATURAL GAS COMPANY
EP Fed. 23 No. 1
M-23-26-30, Eddy County, New Mexico
May 11, 1982