

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:

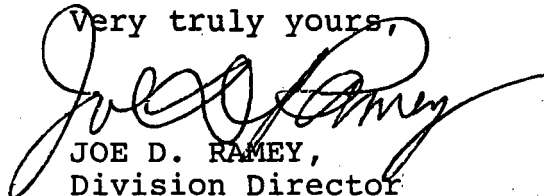
Reference is made to your request for an exception to the tubing setting requirements as contained in Division Rule 107(d)(3) for the below-named well.

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:

<u>LEASE NAME</u>	<u>WELL NO.</u>	<u>UNIT</u>	<u>S-T-R</u>
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

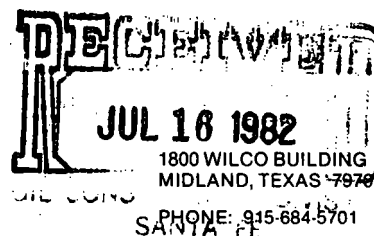
JDR/DSN/dr

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.

PV2V2004435981

El Paso EXPLORATION
COMPANY



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
Project Drlg. Engr.

FPD/jks
Enclosures

El Paso EXPLORATION
COMPANY

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

RECEIVED

JUL 1 1982

O. C. D.
ARTESIA, OFFICE

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 forward
7/12 - will test data as soon
as possible.
J. S. Nutter*

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 P. James

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See instructions on
reverse side)Form 7-330
Budget Bureau No. 43-R355.6.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL:		OIL WELL <input type="checkbox"/>	GAS WELL <input checked="" type="checkbox"/>	DRY <input type="checkbox"/>	OTHER <input type="checkbox"/>		
b. TYPE OF COMPLETION:		NEW WELL <input checked="" type="checkbox"/>	WORK OVER <input type="checkbox"/>	DEEP-EN <input type="checkbox"/>	PLUG BACK <input type="checkbox"/>	DIFF. RESVR. <input type="checkbox"/>	OTHER <input type="checkbox"/>
2. NAME OF OPERATOR						JUL 16 1982	
El Paso Natural Gas Company						OIL COMPANY	
3. ADDRESS OF OPERATOR						SANTA FE	
1800 Wilco Building - Midland, Texas 79701							
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							
14. PERMIT NO.				DATE ISSUED			
NA							
15. DATE SPUNDED				16. DATE T.D. REACHED			
1-24-82				4-7-82			
17. DATE COMPL. (Ready to prod.)				18. ELEVATIONS (DF, REB, RT, OR, ETC.)*			
5-8-82				Gr. 3042			
19. ELEV. CASINGHEAD				3402			
20. TOTAL DEPTH, MD & TVD		21. PLUG, BACK T.D., MD & TVD		22. IF MULTIPLE COMPL., HOW MANY*		23. INTERVALS DRILLED BY	
12,820		12,774				X	
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*						25. WAS DIRECTIONAL SURVEY MADE	
12,266 - 12,302 Wolfcamp Detrital						NO	
26. TYPE ELECTRIC AND OTHER LOGS RUN						27. WAS WELL CORED	
DIL CBL CND CPL						NO	
28. CASING RECORD (Report all strings set in well)							
CASING SIZE		WEIGHT, LB./FT.		DEPTH SET (MD)		HOLE SIZE	
13 3/8		48.0		346		17 1/2	
9 5/8		36.0		3,614		12 1/2	
7		36.0		11,701		8 3/4	
CEMENTING RECORD		AMOUNT PULLED					
375 sxs. Class "C"		None					
2,200 sxs. Class "C"		None					
1.975 sxs. Class "H"		None					
29. LINER RECORD				30. TUBING RECORD			
SIZE		TOP (MD)		BOTTOM (MD)		SACKS CEMENT*	
4 1/2		11,355		12,819		180	
SCREEN (MD)		SIZE		DEPTH SET (MD)		PACKER SET (MD)	
		2 7/8		11,366		11,366	
31. PERFORATION RECORD (Interval, size and number)				32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
12,266 - 12,302				DEPTH INTERVAL (MD)			
				12,266-12,302			
				AMOUNT AND KIND OF MATERIAL USED			
				3500 gals. 7 1/2% 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	
5/11-12/82		24		8.5/64		OIL—BBL. 9.07	
FLOW. TUBING PRESS.		CASING PRESSURE		CALCULATED 24-HOUR RATE		GAS—MCF. 712	
3265		PKR		9.07		WATER—BBL. -0-	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)		TEST WITNESSED BY				GAS—OIL RATIO 78,500-1	
EPNG - Sold						OIL GRAVITY-API (CORR.) 58 deg.	
35. LIST OF ATTACHMENTS							
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records							
SIGNED		TITLE				DATE	
John D. Deek		Supervisor Prod. Services				June 22, 1982	

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

MULTIPOINT / ONE POINT BACK PRESSURE TEST FOR GAS WELL

JUL 16 1982

Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special				Test Date 5/11-12/82			
Company EL PASO NATURAL GAS COMPANY				Connection NONE			
Pool Ross Draw				Formation Wolfcamp		Unit JANITA FL	
Completion Date 5-11-82		Total Depth 12,819		Plug Back TD 12,774		Elevation	
Comp. Size 4 1/2		Wt. 12.7	d 3.958	Set At 12,774	Perforations: From 12,266 To 12,302		Well No. 1
Thq. Size 2 7/8		Wt. 6.5	d 2.441	Set At 11,366	Perforations: From To		Unit Sec. Twp. Age M 23 26 30
Type etc. - Single - (Bridenhead - G.C. or C.O. Multiple) Single				Packer Set At 11,366		County Eddy	
Producing Thru Tbg.		Reservoir Temp. °F 200 @ 12,000		Mean Annual Temp. °F		State New Mexico	
L *12000		H *12000		Co .617	% CO ₂ .38	% N ₂ .41	% H ₂ S -0-
				Prover		Meter Run 4"	Taps Flg.

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Flow Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
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 F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	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.	\bar{r}_h	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1	.79	569	1.57	.939	77.0	58°	.617	X X X X X X X X	671	362
2	.80	563	1.56	.938				X X X X X		
3	.81	543	1.50	.919						
4	.82	549	1.52	.918						
5	.81	553	1.53	.919						

**8239.7 P _c ² 67892.7				(1) $\frac{P_c^2}{P_e^2 - P_w^2} = 1.618$		(2) $\left[\frac{P_c^2}{P_e^2 - P_w^2} \right]^n = 1.287$	
NO.	P _w	P _e ²	P _e ² - P _w ²				
1**	9630.2	8060.7	64974.9				
2**	9346.2	7794.3	60751.1				
3**	8235.2	6759.0	45684.1				
4**	5091.2	5091.2	25920.3				
5		3705.1	13727.8				

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

Absolute Open Flow	1,338	Mcf @ 15.025	Angle of Slope α	62.5°	Slope, n	.525
--------------------	-------	--------------	------------------	-------	----------	------

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

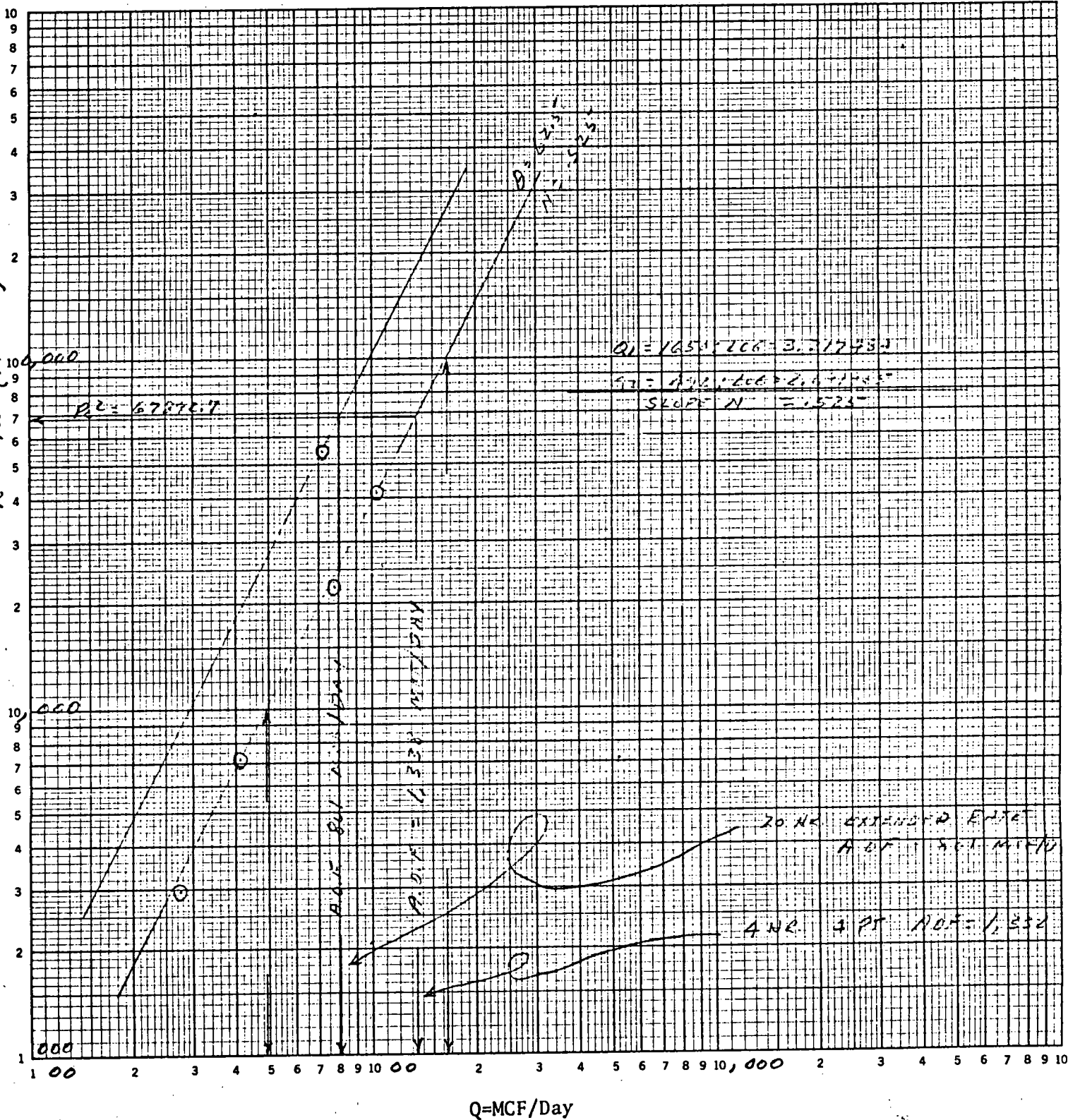
Approved by Division	Conducted by EL PASO EXPLORATION CO. Reston & McMurray	Calculated by EL PASO EXPLORATION CO. J. B. Murray	Checked by:
----------------------	--	--	-------------

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

JUL 16 1982

46 7400
 $P_2 - P_w$ (THSND.S.)

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



$Q = \text{MCF/Day}$