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NO. OF COPIES RECEIVED	:				
DISTRIBUTION	NEW MEXICO OIL O	CONSERVATION COMMISSION	Form C-104		
SANTA FE	REQUEST	FOR ALLOWABLE	Supersedes Old C-104 and C-1		
FILE /		AND	Effective 1-1-65		
U.S.G.S.	AUTHORIZATION TO TRA	ANSPORT OIL AND NATUR	AL GAS		
LAND OFFICE					
TRANSPORTER GAS /					
OPERATOR Z					
PRORATION OFFICE Operator	<u> </u>				
El Paso Natural Gas (INV 300 SA		
Box 990, Farmington, Reason(s) for filing (Check proper box,	New Mexico - 87401	Other (Please explain,	Oliv Organia		
New Well	Change in Transporter of:	Con Pools for	Potestia		
Recompletion	Oil Dry Go	as 🔲 See Back for	Details		
Change in Ownership	Casinghead Gas Conde	nsate			
If change of ownership give name and address of previous owner DESCRIPTION OF WELL AND Lease Name San Juan 27-4 Unit	LEASE Well No. Pool Name, Including F 30 (D) Basin Dako		Lease No. Feleral or Fee SIF 080670		
Location					
Unit Letter;	Feet From The South		From The West		
Line of Section 32 Tov	waship 27N Range	W , NMPM, R	io Arriba County		
Name of Authorized Transporter of Oil El Paso Natural Gas Name of Authorized Transporter of Car El Paso Natural Gas If well produces oil or liquids,	singhead Gas or Dry Gas X company Unit Sec. Twp. Rge.	Address (Give address to which approved copy of this form is to be sent) BOX 990, Farmington, New Mexico Address (Give address to which approved copy of this form is to be sent) BOX 990, Farmington, New Mexico Is gas actually connected? When			
give location of tanks. If this production is commingled wi	th that from any other lease or pool,	, give commingling order number	r:		
COMPLETION DATA	Oil Well Gas Well	New Well Workover Deep	en Plug Back Same Restv. Diff. Rest		
Designate Type of Completic		X	X		
Date Spudded	Date Compl. Ready to Prod.	Total Depth	P.B.T.D.		
W/0 11-26-67	W/C 1-8-68	8494*	Tubing Depth		
Elevations (DF, RKB, RT, GR, etc.)	Name of Producing Formation Dakota	Top 201/Gas Pay 8158	8100		
Perforations	DELCUE		Depth Casing Shoe		
	82-88, 8296-8302, 8306-1		811311		
	T	ID CEMENTING RECORD			
HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT		
15"	10 3/4"	297 · 8494 ·	685 Sks.		
7 7/8"	4 1/2" 2 3/8" & 2 1/16"	2 3/8" @ 7461'	OO) DRS:		
	2 3/0 & 2 1/10	2 1/16" @ 8100'	Tubing		
. TEST DATA AND REQUEST F	OR ALLOWABLE (Test must be able for this d		ad oil and must be equal to or exceed top all		
Date First New Oil Run To Tanks	Date of Test	Producing Method (Flow, pump,			
Length of Test	Tubing Pressure	Casing Pressure	Choke Size		
Actual Prod. During Test	Oil-Bbls.	Water-Bbis.	Gas-MCF		
GAS WELL					
Actual Prod. Test-MCF/D	Length of Test 3 Hours	Bbls. Condensate/MMCF	Gravity of Condensate		
Testing Method (pitot, back pr.) Calculated A.O.F.	Tubing Pressure (Shut-in)	Casing Pressure (Shut-in)	Choke Size		
		- 			
. CERTIFICATE OF COMPLIAN			ERVATION COMMISSION MAR 25 1968		
Commission have been complied	regulations of the Oil Conservation with and that the information given a best of my knowledge and belief.	1 Circulation of Circums of	by Emery C. Arnold		

Original Signed F. H. WOOD

(Signature)

Fetroleum Engineer (Title)

January 17, 1968

(Date)

SUPERVISOR DIST. #3

This form is to be filed in compliance with RULE 1104.

If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.

All sections of this form must be filled out completely for allowable on new and recompleted wells.

Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter, or other such change of condition.

Separate Forms C-104 must be filed for each pool in multiply completed wells.

WORKOVER

	HOLOGO YOUN
11-26-67 11-27-67	Rigged up Dwinell Bros. rig #1, pulled tubing. Set bridge plug at 7733', found hole in 4 1/2" casing at 5386', set Baker fullbore packer at 5288', squeezed hole at 5386' w/50 sacks cement, no squeeze pressure, squeezed again w/50 sacks cement, squeeze pressure 1800#. W.O.C.
11-28-67	Drilled out cement, tested squeeze job, would not hold. Set Baker fullbore packer at 5288', re-squeezed hole in casing at 5386' w/100 sacks of cement, pressure 3000#.
11-29-67 11-30-67	Drilled out cement, tested w/2000#, held 0. K. Cleaned out to 7733'. Set bridge plug at 7738', tested casing to 4000# 0. K. Spotted 250 gallons 155 MCA. Perf. Gallup 7677-89', 7700-06' w/24 SPZ. Frac w/38,000# 20/40 sand, 30,330 gal. water. Max. pr. 4000#, BDP 1000#, tr. pr. 2900-3000-3200#. I.R. 50 BFM. Dropped 1 set of 26 balls each, flushed w/5500 gal. water. isip 1200#, 5 Min. 700#. Set BP @ 7525', tested w/4000# 0. K. Perf. Gallup 7486-7500' w/2 SPF, Frac w/25,000# 20/40 sand, 26,460 gallons of water. Max.
12-1-67	pr. 4000#, BDP 3800#, tr. pr. 3200-3300-3700#. I.R. 45 BPM. Flushed w/5200 gal. water. ISIP 900#, 5 Min. 600#. Blowing well.
12-2-67	Elowing well. Gauged 20% on 1" line, 1/2" water.
12-3-67	Playing well, drilled bridge plug at 7730', cleaned out to 0400'.
12-4-67	Attempted to set production packer, packer stopped at 5430', stuck packer at 5352' while rulling, milled up packer, cleaned out to 8400'. Reamed tight spot in casing at 5433'.
12-5-67	Set Eaker Model "D" production packer at 8100', set Baker model "FA" production packer at 7461', ran 19 joints 2 1/16" intergal joint tubing and 236 joints 2 3/8", 4.7%, J-55 tubing (8085') landed at 8100' (see daily
	drilling report and tubing record in well file).
12-28-68	Date Gallug was tested.
1-8-68	Date Dakota was tested.

EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

CORRECTED COPY

DUAL COMPLETION

DATE January 8, 1968

Operator El Paso Natura	l Gas Company	San Juan 27-4 Unit No. 30 (DK) (OWWO)		
Locotion 800's, 1450'W, Sec. 32, T-27-N, R-4-W Formation Dakota		County Rio Arriba	State New Mexico	
		Pool Basin		
Casing: Diameter 4 • 500	Set At: Feet 8494	Tubing: Diameter 2.0625	Set At: Feet 640	
Pay Zone: From 8158	T. 8462	Total Depth: 8494	Shut In 12-9-67	
Stimulation Method Sand Water Frac		Flow Through Casing X	Flow Through Tubing	

Choke Size, Inches Choke Constant: C		Baker Model D Packer set at 8100 Baker Model					
•750		12.365		FA Packer set at 7461 2 1/16" Crossover sub.			
Shut-In Pressure, Casing, 1126 (DK)		+12 = PSIA 1138 (DK)	Days Shut-In 30	Shut-In Pressure, Tubing 1287 (GL)		+ 12 = PSIA 1299	
Flowing Pressure: P		+ 12 = PSIA 91		Working Pressure: Pw (Friction Negli		+ 12 = PSIA	91
Temperature: T= 54 •F Ft	= 1.0058	n = •75	50	Fpv (From Tables)		Gravity .695	Fg = .9292

ISIPT (GL) = 1287 psig

FSIPT (GL) = 1296 psig

CHOKE VOLUME = Q = C x P, x F, x Fg x Fpv

$$Q = (12.365)(91)(1.0058)(.9292)(1.009)$$

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

Aof =
$$\begin{pmatrix} \frac{1295044}{1286763} \end{pmatrix}^{n} = (\frac{1061}{1.0064})^{.75} = (\frac{1061}{1.0048})^{.10048}$$

NOTE: The well produced clear gas for the first hour and a half, then it produced a light spray of distillate for the remainder of the test.

remainder of the test

Aof = 1066 MCF/D

TESTED BY R. F. Headrick

CALCULATED

WAYNESSES BY T. B. Grant

APR 1 8 1968

OIL CON. COM.

DIST. 3

W W Wandmiels

BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION COMMISSION OF NEW MEXICO FOR THE PURPOSE OF CONSIDERING:

> CASE No. 3724 Order No. R-3390

APPLICATION OF EL PASO NATURAL GAS COMPANY FOR A DUAL COMPLETION, RIO ARRIBA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on March 20, 1968, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 25th day of March, 1968, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

- (1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, El Paso Natural Gas Company, seeks authority to complete its San Juan 27-4 Unit Well No. 30 (GD), located 800 feet from the South line and 1450 feet from the West line of Section 32, Township 27 North, Range 4 West, NMPM, Rio Arriba County, New Mexico, as a dual completion (conventional) to produce gas from an undesignated Gallup gas pool through 2 3/8-inch tubing and the Basin-Dakota Gas Pool through the casing-tubing annulus by means of a cross-over assembly, with separation of zones by packers set at approximately 8100 feet and 7461 feet.
- (3) That the mechanics of the proposed dual completion are feasible and in accord with good conservation practices.

-2-CASE No. 3724 Order No. R-3390

(4) That approval of the subject application will prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That the applicant, El Paso Natural Gas Company, is hereby authorized to complete its San Juan 27-4 Unit Well No. 30 (GD), located 800 feet from the South line and 1450 feet from the West line of Section 32, Township 27 North, Range 4 West, NMPM, Rio Arriba County, New Mexico, as a dual completion (conventional) to produce gas from an undesignated Gallup gas pool through 2 3/8-inch tubing and the Basin-Dakota Gas Pool through the casing-tubing annulus by means of a cross-over assembly, with separation of zones by packers set at approximately 8100 feet and 7461 feet;

PROVIDED HOWEVER, that the applicant shall complete, operate, and produce said well in accordance with the provisions of Rule 112-A of the Commission Rules and Regulations insofar as said rule is not inconsistent with this order;

PROVIDED FURTHER, that the applicant shall take packer-leakage tests upon completion and annually thereafter during the Annual Deliverability Test Period for the Basin-Dakota Gas Pool.

(2) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO OIL CONSERVATION COMMISSION

DAVID F. CARGO, Chairman

GUYTON B. HAYS, Member

A. L. PORTER, Jr., Member & Secretary

SEAL