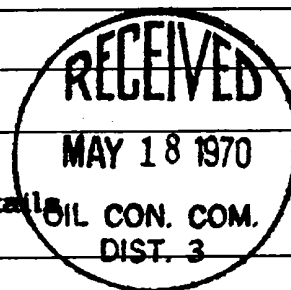


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PRORATION OFFICE	

NEW MEXICO OIL CONSERVATION COMMISSION  
REQUEST FOR ALLOWABLE  
AND  
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Form C-104  
Supersedes Old C-104 and C-110  
Effective 1-1-65

I. Operator <b>El Paso Natural Gas Company</b>	
Address <b>Box 990, Farmington, New Mexico 87401</b>	
Reason(s) for filing (Check proper box)	Other (Please explain)
New Well <input type="checkbox"/>	Change in Transporter of:
Recompletion <input checked="" type="checkbox"/>	Oil <input type="checkbox"/> Dry Gas <input type="checkbox"/>
Change in Ownership <input type="checkbox"/>	Casinghead Gas <input type="checkbox"/> Condensate <input type="checkbox"/>
<b>See Back for Details</b>	



If change of ownership give name  
and address of previous owner \_\_\_\_\_

II. DESCRIPTION OF WELL AND LEASE

Lease Name <b>San Juan 32-9 Unit</b>	Well No. <b>3</b>	Pool Name, Including Formation <b>Blanco Mesa Verde</b>	Kind of Lease State, <del>Federal</del> or Fee	Lease No. <b>SF 078507</b>
Location Unit Letter <b>A</b> ; <b>1190</b> Feet From The <b>North</b> Line and <b>820</b> Feet From The <b>East</b> Line of Section <b>1</b> Township <b>31N</b> Range <b>10W</b> , NMPM, <b>San Juan</b> County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input checked="" type="checkbox"/> <b>El Paso Natural Gas Company</b>	Address (Give address to which approved copy of this form is to be sent) <b>Box 990, Farmington, New Mexico 87401</b>	
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/> <b>El Paso Natural Gas Company</b>	Address (Give address to which approved copy of this form is to be sent) <b>Box 990, Farmington, New Mexico 87401</b>	
If well produces oil or liquids, give location of tanks.	Unit <b>A</b>	Sec. <b>1</b>
	Twp. <b>31N</b>	Rge. <b>10W</b>
	Is gas actually connected? <input type="checkbox"/> When _____	

If this production is commingled with that from any other lease or pool, give commingling order number: \_\_\_\_\_

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v.	Diff. Res'v.
		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	
Date Spudded <b>W/O 4-14-70</b>	Date Compl. Ready to Prod. <b>5-1-70</b>		Total Depth <b>6251'</b>		P.B.T.D. <b>6214'</b>			
Elevations (DF, RKB, RT, GR, etc.) <b>6694' GL</b>	Name of Producing Formation <b>Mesa Verde</b>		Top Oil/Gas Pay <b>5390'</b>		Tubing Depth <b>6104'</b>			
Perforations <b>5390-5406, 5416-20, 5432-44, 5454-62', 5810-26, 5836-52, 5866-74, 5894-5910, 6066-70, 6104-12</b>					Depth Casing Shoe <b>6251'</b>			
TUBING, CASING, AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE		DEPTH SET		SACKS CEMENT			
No Record	10 3/4"		227'		115 Sks.			
No Record	7"		5260'		210 Sks.			
6 1/4	4 1/2"		6251'		125 Sks.			
	2 3/8"		6104'		Tubing			

V. TEST DATA AND REQUEST FOR ALLOWABLE  
OIL WELL

(Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours)

Date First New Oil Run To Tanks	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.	Gas - MCF

GAS WELL

Actual Prod. Test-MCF/D <b>12,134</b>	Length of Test <b>3 Hours</b>	Bbls. Condensate/MMCF <b>8.21</b>	Gravity of Condensate <b>51.2 API</b>
Testing Method (pilot, back pr.) <b>Calculated A.O.F.</b>	Tubing Pressure (shut-in) <b>839</b>	Casing Pressure (shut-in) <b>847</b>	Choke Size <b>3/4" Variable</b>

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Commission have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Original Signed **F. H. WOOD**

(Signature)

**Petroleum Engineer**

(Title)

**May 14, 1970**

(Date)

OIL CONSERVATION COMMISSION  
MAY 18 1970

APPROVED \_\_\_\_\_, 19\_\_\_\_  
BY **Original Signed by Emery C. Arnold**  
TITLE **SUPERVISOR DIST #5**

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.

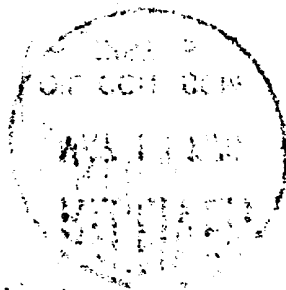
All sections of this form must be filled out completely for allowable on new and recompleted wells.

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

- 4-14-70 Rugged up Dwinell Bros. rig #1. Cut off stuck tubing at 5360', pulled tubing and set cement retainer at 5148'.
- 4-15-70 Squeezed open hole w/150 sacks of cement. Perforated 2 squeeze holes at 2010', set cement retainer at 1960'. Squeezed thru perfs w/215 sacks of cement.
- 4-16-70 Drilled cement and retainer at 1960', squeeze did not hold, set retainer at 1954', re-squeezed perfs at 2010' w/125 sacks of cement.
- 4-17-70 Tested squeeze at 2010' O. K. Drilling sidetrack hole from 5270' w/gas, 1 1/2° at 5200'.
- 4-18-70 Drilling w/gas. 5 1/2° at 5289', 5° at 5306', 4° at 5399'.
- 4-19-70 Reached total depth of 6251', 1 3/4° at 5857', 2 1/2° at 6251'.
- 4-20-70 Logged well and ran 189 joints 4 1/2", 10.5#, J-55 casing (6238') set at 6251' w/125 sacks of cement.
- 4-21-70 P.B.T.D. 6214', perf. 5810-26', 5836-52', 5866-74', 5894-5910', 6066-70', 6104-12' w/16 SPZ. Frac w/65,000# 20/40 sand, 52,590 gal. water, dropped 5 sets of 16 balls, flushed w/4500 gal. water. Pumped bridging ball to baffle at 5586', tested to 3000# O. K. Perf. 5390-5406', 5416-20', 5432-44', 5454-62' w/16 SPZ. Frac w/45,000# 20/40 sand, 38,100 gal. water, dropped 3 sets of 16 balls, flushed w/3700 gal. water.
- 4-22-70 Drilled baffle at 5586', cleaning out sand w/booster.
- 4-23-70 Blew well and ran 198 joints 2 3/8", 4.7#, J-55 tubing, (6093') landed at 6104' w/SN on bottom.
- 5-1-70 Date well was tested.



Deliver

**NEW MEXICO OIL CONSERVATION COMMISSION**  
**WELL DELIVERABILITY TEST REPORT FOR 19 70**

Form C122-A  
 Revised 1-1-68

POOL NAME <b>Blanco</b>	POOL SLOPE <b>n = .75</b>	FORMATION <b>MV</b>	COUNTY <b>San Juan</b>
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70-566

COMPANY <b>El Paso Natural Gas Company</b>			WELL NAME AND NUMBER <b>San Juan 32-9 Unit No. 3</b>		
UNIT LETTER <b>A</b>	SECTION <b>1</b>	TOWNSHIP <b>31</b>	RANGE <b>10</b>	PURCHASING PIPELINE <b>EPNG</b>	
CASING O.D. - INCHES <b>4.500</b>	CASING I.D. - INCHES <b>4.052</b>	SET AT DEPTH - FEET <b>6215</b>	TUBING O.D. - INCHES <b>2.375</b>	TUBING I.D. - INCHES <b>1.995</b>	TOP - TUBING PERF. - FEET <b>6104</b>
GAS PAY ZONE FROM <b>5390</b> TO <b>6112</b>		WELL PRODUCING THRU CASING TUBING <b>XX</b>		GAS GRAVITY <b>.672</b>	GRAVITY & LENGTH <b>4102</b>
DATE OF FLOW TEST FROM <b>6-9-70</b> TO <b>6-17-70</b>			DATE SHUT-IN PRESSURE MEASURED <b>5-1-70</b>		

## PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) <b>-</b>	(b) Flowing Tubing Pressure (DWt) <b>-</b>	(c) Flowing Meter Pressure (DWt) <b>-</b>	(d) Flow Chart Static Reading <b>-</b>	(e) Meter Error (Item c - Item d) <b>0</b>	(f) Friction Loss (a-c) or (b-c) <b>0</b>	(g) Average Meter Pressure (Integr.) <b>379</b>
(h) Corrected Meter Pressure (g+e) <b>379</b>	(i) Avg. Wellhead Press. $P_i = (h+f)$ <b>379</b>	(j) Shut-in Casing Pressure (DWt) <b>847</b>	(k) Shut-in Tubing Pressure (DWt) <b>839</b>	(l) $P_w$ = higher value of (i) or (k) <b>847</b>	(m) Del. Pressure $P_d = 80$ $\% P_i$ <b>678</b>	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

## FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D <b>1119</b>	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ <b>1.0000</b>	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ <b>1.0000</b>	Corrected Volume <b>Q = 1119</b> MCF/D
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## WORKING PRESSURE CALCULATION

$(1-e^{-s})$ <b>.258</b>	$(F_c Q_m)^2 (1000)$ <b>110688</b>	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ <b>28557</b>	$P_i^2$ <b>143641</b>	$P_w^2 = P_i^2 + R^2$ <b>172198</b>	$P_w = \sqrt{P_w^2}$ <b>415</b>
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## DELIVERABILITY CALCULATION

$D = Q \left[ \frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$	<b>1119</b>	$\left( \frac{257725}{545211} \right)^n =$	$(.4727)^n =$	<b>.5701</b>	$=$	<b>638</b> MCF/D
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REMARKS:

OWO, 1st del. May 11, 1970.

## SUMMARY

Item h **379** Psia  
 P<sub>c</sub> **847** Psia  
 Q **1119** MCF/D  
 P<sub>w</sub> **415** Psia  
 P<sub>d</sub> **678** Psia  
 D **638** MCF/D

Company **EL PASO NATURAL GAS COMPANY**By **H. E. McAnally**

Title

Witnessed By

Company

