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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 **El Paso Natural Gas Company**

Address **Box 990, Farmington, New Mexico**

Reason(s) for filing (Check proper box) Other (Please explain)

New Well ☐ Change in Transporter of: Oil ☐ Dry Gas ☐ **See Back for Workover Details**

Recompletion ☒ Casinghead Gas ☐ Condensate ☐

Change in Ownership ☐

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

II. DESCRIPTION OF WELL AND LEASE

Lease Name <b>Barnes</b>	Well No. <b>3</b>	Pool Name, Including Formation <b>Blanco Mesa Verde</b>	Kind of Lease State, Federal or Fee <input checked="" type="checkbox"/>	Lease No.
Location				
Unit Letter <b>H</b> ; <b>1542</b> Feet From The <b>North</b> Line and <b>1165</b> Feet From The <b>East</b>				
Line of Section <b>27</b> Township <b>32N</b> Range <b>11W</b> , NMFM, <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"/>	Address (Give address to which approved copy of this form is to be sent)
<b>El Paso Natural Gas Company</b>	<b>Box 990, Farmington, New Mexico</b>
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
<b>El Paso Natural Gas Company</b>	<b>Box 990, Farmington, New Mexico</b>
If well produces oil or liquids, give location of tanks.	Unit Sec. Twp. Rge. Is gas actually connected? When
	<b>H 27 32N 11W</b>

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 6-19-66</b>	Date Compl. Ready to Prod. <b>7-8-66</b>	Total Depth <b>Sidetrack 5856'</b>	P.B.T.D. <b>C.O. 5825'</b>					
Elevations (DF, RKB, RT, GR, etc.) <b>6488' GL</b>	Name of Producing Formation <b>Mesa Verde</b>	Top of Gas Pay <b>5062</b>	Tubing Depth <b>5819'</b>					
Perforations <b>5062-68, 5092-98, 5708-14, 5128-34, 5532-40, 5552-60, 5577-83, 5600-06, 5626-30, 5696-5700, 5774-78, 5812-16</b>			Depth Casing Shoe <b>5856'</b>					
TUBING, CASING, AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE	DEPTH SET		SACKS CEMENT				
<b>13 3/4"</b>	<b>9 5/8"</b>	<b>172'</b>		<b>125 Sks.</b>				
<b>8 3/4"</b>	<b>7"</b>	<b>4890'</b>		<b>500 Sks.</b>				
<b>6 1/4"</b>	<b>4 1/2"</b>	<b>5856'</b>		<b>140 Sks.</b>				
	<b>2 3/8"</b>	<b>5819'</b>		<b>Tubing</b>				

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>15,331 MCF/D</b>	Length of Test <b>3 Hours</b>	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method (pitot, back pr.) <b>Calculated A.O.F.</b>	Tubing Pressure (Shut-in) <b>SI 688</b>	Casing Pressure (Shut-in) <b>SI 862</b>	Choke Size <b>3/4"</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)  
**July 15, 1966**  
(Date)

OIL CONSERVATION COMMISSION  
APPROVED **JUL 20 1966**, 19\_\_\_\_\_  
BY **Original Signed by Emery C. Arnold**  
TITLE **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.

WORMHOLE

5-19-66 Rigged up Drinnell Bros. Rig #1. Pulled tubing, set cement retainer at 4765', squeezed open hole w/200 sacks regular cement w/1/4 cu. ft. fine Gilsonite/sk., followed w/100 sacks regular cement w/15% sand, 2% calcium chloride.

5-20-66 Losses leak in 7" casing (2143 - 2707') set squeeze packer at 2086', squeezed leaks w/200 sacks regular cement, 3% calcium chloride, max. pr. 1000#.

5-21-66 Drilled out cement to 2673', pressured up to 1000#, bled off. Set packer at 2050', held 1000#. Set packer at 2050', squeezed w/200 sacks regular cement, 3% calcium chloride, standing pressure 1200#, staged to 1500#. Drilled out cement, tested to 1000# O. K.

5-21-66 Drilled 4 3/4" sidetrack hole (4910-4928'). 3° at 4928'. Reamed 4 3/4" hole to 6 1/4".

5-22-66 Drilling sidetrack hole w/gas. 3 1/4° at 4969', 3 1/2° at 4987'.

5-23-66 Drilling, 3° at 5135'.

5-23-66 Drilling, 2° at 5842'.

5-26-66 Sidetrack total depth 5856'. Ran 183 joints 4 1/2", 10.5#, J-55 casing (5845.85') set at 5855.85' w/140 sacks Class "A" cement, 4% gel, 1/4 cu. ft. fine Gilsonite/sk.

5-27-66 Pump. Cliff House 5062-68, 5092-98, 5108-14, 5128-34 w/3 SPT; FRAC w/32,000# 20/40 sand, 32,000 gal. water, w/2 1/2# FR-8/1000 gal. Max. pr. 4000#, BDP 1800#, tr. pr. 1800-2100-2300#, dropped 3 sets of 18 balls each. I.R. 57 BPM, flushed w/3470 gal. water, ISIP vacuum. Set BP @ 5145'. Perf. Upper Point Lockout 5532-40, 5552-60 w/2 SPT; 5577-83 w/16 holes, frac w/32,000# 20/40 sand, 31,360 gal. water w/2 1/2# FR-8/1000 gal. Max. pr. 4000#, BDP vacuum, tr. pr. 1600-1750-1900#. Dropped 2 sets of 16 balls each, I.R. 66 BPM, flushed w/3736 gal. water. ISIP vacuum. Set BP @ 5594', perf. Lower Point Lockout 5600-06 w/16 holes, 5626-30, 5696-5700, 5774-78, 5812-16 w/4 SPT; frac w/17,000# 20/40 sand, 20,520 gal. water w/2 1/2# FR-8/1000 gal. Max. pr. 4000#, BDP vacuum, tr. pr. 1800-2023-4000#, dropped 4 sets of 16 balls each. I.R. 57.2 BPM, flushed w/4460 gal. water, ISIP vacuum.

5-28-66 Blowing well, drilling bridge plugs.

5-29-66 Ran 167 joints 2 3/8", 4.7#, J-55 tubing (5808.66') landed at 5818.66', pin collar at 5817.31', tubing full open on bottom.

7-8-66 Date well was tested.

END OF LOG

WORMHOLE - YOUNG TO BEAT 2 WORMHOLE