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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

Operator El Paso Natural Gas Co.	
Address PO Box 990, Farmington, NM 87401	
Reason(s) for filing (Check proper box)	
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"/>
Other (Please explain) Details on back. <i>Adding Condensate Transporter</i>	

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

Lease Name Grambling		Well No. 1(OWWO)	Pool Name, including Formation Blanco Mesa Verde	Kind of Lease State, (Federal) or Fee	Lease No. NM 03999
Location					
Unit Letter	<i>A H</i>	Feet From The	<i>1650</i> <del>1712</del>	North	Line and
			<i>990</i> <del>511</del>	East	
Line of Section	28	Township	29N	Range	9W
				NMPM,	San Juan
					County

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)	
El Paso Natural Gas Co.		PO Box 990, Farmington, NM 87401	
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)	
El Paso Natural Gas Co.		PO Box 990, Farmington, NM 87401	
If well produces oil or liquids, give location of tanks.	Unit	Sec.	Twp.
	A	28	29
			9
Is gas actually connected?		When	

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

Designate Type of Completion - (X)		Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v.	Diff. Res'v.
			X		X			X	
Date Spudded W/O 9-24-71	Date Compl. Ready to Prod. W/O 12-16-71	Total Depth 4732'		P.B.T.D. 4716'					
Elevations (DF, RKB, RT, GR, etc.) 5643'GL	Name of Producing Formation Mesa Verde	Top <del>XX</del> /Gas Pay 3734'		Tubing Depth 4661'					
Perforations 3734-40', 3788-96', 3806-14', 4316-26', 4344-52', 4362-66', 4384-92'		Depth Casing Shoe 4464-72', 4524-32', 4582-90', 4664-72'		4732'					
TUBING, CASING, AND CEMENTING RECORD									
HOLE SIZE	CASING & TUBING SIZE	DEPTH SET		SACKS CEMENT					
no record	9 5/8"	522'		165					
no record	7"	4315'		450					
6 1/4"	4 1/2"	4732'		125					
	2 3/8"	4661'		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 2502	Length of Test 3 hrs.	Ebbs. Condensate/MMCF	Gravity of Condensate
Testing Method (pitot, back pr.) Calc. AOF	Tubing Pressure (shut-in) 189	Casing Pressure (shut-in) 696	Choke Size 3/4" variable

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)

12-22-71

(Date)

OIL CONSERVATION COMMISSION

DEC 27 1971

APPROVED \_\_\_\_\_, 19 \_\_\_\_\_

BY Original Signed by A. R. Kendrick

TITLE PETROLEUM ENGINEER DIST. NO. 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.

## Grambling #1 (OWWO)

(Show details of tubular goods, bottom hole accessories, DST's, Cores, Deviations, and General Chronological History).

- 11-15-50 9 5/8" casing - 13 joints (511.54') of 36# J-55 National Tube set at 522' with 165 sks. cement circulated to surface. Tested with 500# for 30 min. -OK.
- 11-24-50 Lost circulation at 3348', regained in a few hours with Crevice Seal, etc.
- 12-2-50 Lost circulation at 4324', did not regain.
- 12-3-50 7" casing - 125 joints of 20# J-55 National Tube (4305') set at 4315' with two-stage tool using 450 sks. Top of cement by Schlumberger Temp. Survey 2260'.
- 12-18-50 shot 4350-4385' with 520 qts. of Solidified Nitro. Afterwards, cleaned out with bailer to 4385'.
- 12-20-50 2" tubing - 2 3/8" OD Upset 4.7# J-55 161 joints set 4450GL, with 6.7' perforated 5 holes per foot. Nipple at bottom. Top perf 4444'GL.  
Gauges while drilling: 4330'-248 MCF; 4365'-139 MCF; 4410'-162 MCF; 4480'-196 MCF; 4498'-200 MCF before shot.

Pictured Cliffs Possibilities: The Pictured Cliffs section in this well was rather thick, but broken by shale streaks. The sand was rather fine and angular enough to pack tightly. The grains were well cemented thus cutting porosity to almost nothing. The possibilities of production from the Pictured Cliffs in this immediate area are very slim.

- 1-11-52: Moved in rig to clean out well.
- 1-13-52: Pulled tubing and started drying well and cleaning out with gas circulation.
- 1-20-52: Perfed (Cliff House and part of Menefee sands) casing with 4 shots per foot from 3715-3727' 3770-3800', 3990-4020', 4114-4120'. No immediate increase in gas.
- 1-27-52: Cleaned out to total depth 4498' and ran 159 joints of 2" 4.7#, J-55 tubing to 4459'.

### Workover:

- 9-24-71: Moved on Dwinell Bros. rig #1. Pulled tubing and set bridge plug at 3600', located hole in 7" casing between 817-845'.
- 9-25-71: Set cement retainer at 760', squeezed hole in 7" casing with 225 sks. cement.
- 9-26-71: Drilled cement retainer at 760' and bridge plug at 3600', cleaned out to 4468', stuck pipe, freed pipe, stuck pipe again, freed pipe.
- 9-27-71: Set cement retainer at 3606', squeezed open hole with 200 sks. cement.
- 9-28-71: Sidetrack drilling at 3580'.
- 9-30-71: Reached sidetrack Total Depth at 4732'.
- 10-1-71: Ran 145 joints 4 1/2", 10.5#, K-55 production casing, 4720' set at 4732' with 125 sks. cement. WOC 18 hrs.
- 10-2-71: PBTD 4716', perf 4316-26', 4344-52', 4362-66', 4384-92', 4464-72', 4524-32', 4582-90', 4664-72' with 16 shots per zone. Frac with 72,000# 20/40 sand, 73,080 gal. water, dropped 4 sets of 16 balls, flushed with 3150 gallons water, pumped bridging ball to baffle at 4062', tested with 3000 psi-OK. Perf 3734-40', 3788-96', 3806-14' with 24 shots per zone, fraced with 32,000# 20/40 sand, 33,180 gal. water, dropped 2 sets of 24 balls, flushed with 2730 gallons water.
- 10-4-71: Ran 165 joints 2 3/8", 4.7#, J-55 tubing, 4650' set at 4661', seating nipple on bottom.
- 12-16-71: Date well was tested.