# El Paso Natural Gas Company

El Paso, Texas
July 16, 1958

ADDRESS REPLY TO
POST OFFICE BOX 997
FARMINGTON, NEW MEXICO

Mr. A. L. Porter Secretary and Director Oil Conservation Commission Box 871 Santa Fe, New Mexico



Dear Sir:

This is a request for administrative approval for a well dually completed in the Blanco Mesa Verde Pool and South Blanco Pictured Cliffs Pool. The El Paso Natural Gas Company San Juan 28-7 Unit No. 91 (PM) is located 836 feet from the North line and 1544 feet from the East line of Section 34, Township 28 North, Range 7 West, N.M.P.M., Rio Arriba County, New Mexico.

This well has been completed in the Cliff House and Point Lookout sections of the Mesa Verde formation and in the Pictured Cliffs formation. Completion has been accomplished in the following manner:

- 1. 10 3/4" surface casing set at 175 feet with 150 sacks of cement circulated to the surface.
- 2. 7 5/8" intermediate casing set at 2899 feet with 200 sacks of cement. Top of the cement is at 1860 feet, which is above the top of the Pictured Cliffs at 2700 feet.
- 3. 5 1/2" liner set from 2822 feet to 5110 feet with 300 sacks of cement.
- 4. The casing and liner were tested for leaks before perforating.
- 5. The Point Lookout section was perforated in four intervals and fractured with water and sand.
- 6. The Cliff House section was perforated in two intervals and fractured with water and sand.
- 7. The Pictured Cliffs formation was perforated in one interval and fractured with water and sand.
- 8. All perforations were cleaned out after treatment and completion was accomplished by setting a Guiberson Model "Shorty" production packer on 2" EUE tubing at 2963 feet with tubing perforations set opposite the Point Lookout perforations. 1 1/4" EUE tubing siphon string was run with tubing perforations set opposite the Pictured Cliffs perforations. The Point Lookout gas will be produced through the 2" tubing and the Pictured Cliffs gas through the casing.
- 9. Initial potential tests have been run and commercial production has been found in both zones. A packer leakage test has been run and witnessed by a member of the Aztec office of the Oil Conservation Commission. This test shows no communication in the well bore between the two producing formations.

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Administrative approval is requested for the dual completion to allow production from both known producing formations, eliminating the high initial cost of drilling two separate wells.

Since the drilling block lies entirely within the boundaries of the San Juan 28-7 Unit, of which El Pasc Natural Gas Company is operator, approval to dually complete this well has not been sought from any other operator. Enclosed are:

- (a) Two copies of the schematic diagram of the mechanical installations.
- (b) Two copies of the affidavit from the packer setting company stating that the packer used was set at the depth shown.
- (c) Two copies of the packer leakage test as observed by a member of the Oil Conservation Commission.
- (d) Two copies of the initial potential test showing commercial production from the two formations.

It is intended to dedicate the E/2 of Section 34, Township 28 North, Range 7 West to the Mesa V rde formation and the NE/4 of Section 34, Township 28 North, Range 7 West to the Pictured Cliffs formation.

Any further information required will be furnished upon your request. Thank you for your consideration in this matter.

Yours very truly,

OR!G!NAL SIGNED E.S. OBERLY E. S. Oberly, Division Petroleum Engineer

ESO:dgb

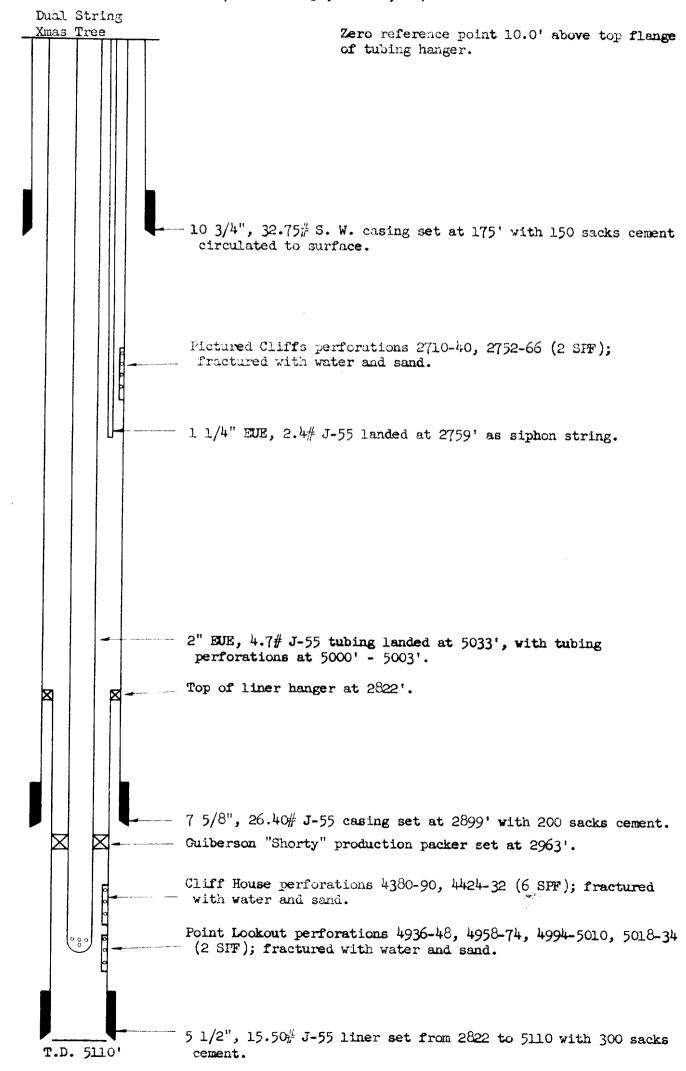
cc: NMOCC (Emery Arnold) / Sam Smith
USGS (Phil McGrath)

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(x,y) = (x,y) + (x,y

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# SCHEMATIC DIAGRAM OF DUAL COMPLETION El Paso Natural Gas Co. San Juan 28-7 Unit No. 91 (PM) NE/4 Section 34, T-28-N, R-7-W



STATE OF NEW MEATCO COUNTY OF SAN JUAN

I,  $\triangle$ . T. Fry, being first only sworn upon my oath depose and say as follows:

I am an employee of Guiberson Corporation, and that on June 11, 1958, I was called to the location of the El Paso natural Gas Company Can Juan 28-7 Unit No. 91 (TM) Well located in the MNNE/4 of Section 34, Township 28 North, Range 7 West, N.M.I.M., for advisory service in connection with installation of a production packer. In my presence, a Guiberson Model "Shorty" production backer was set in this well at 2963 feet in accordance with the usual practices and customs of the industry.

Subscribed and sworm to before me, a Notary Public in and for San Juan County, New Mexico, the 11th day of July, 1958.

Notary Public in and for San Juan County, New Mexico

My commission expires February 24, 1960.

P. O. Box 997
Parmington, New Mexico

July 10, 1958

Mr. D. O. Armola Cil Conservation Commussion Take Rin Pracos Pass Acted Law Envico

Company Well, San Juan 28-7 Unit 91 (PM)
836N, 1544E: 34-28-7, Rio Arriba, New Mex.
(Name - Location - Company)

Twan Ar. Amiold.

The sub	ject wall was dually com	pleted in the Pictured	Cliffs and M	esa Verde
	packer was set at <b>2963</b> 4" chose for three hours			
	10 8110 <u>938</u>	rsig; Shut-in 8	days	
	ra sria <u>938</u>	paig;		
	100 GLUD <u>997</u>	prig; Chut-in 8	<b>GB</b> ys	
Time Hinutes	MV) Howing Pressure Tubing Psig	PC ) 31 (C) Paig	My Working ressure, Esig	Temp C F
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7575				
	Pictured Cliffs zone was with the following data		8 with a	у ч споке
	-C SI.C <b>939</b> ps	ig; Shut-in <b>18</b>	day <b>s</b>	
	00 0114 <b>939</b> ps	1.5;		
	177 8 <b>1 t</b> 2 <b>996</b> ya	ig; Shut-in 7	lays	

age Two

Mino Minutes	PC) Flowing Forssure Casing Sig	(MV) SIF (T) lsig	(PC) Working ressure, Esig	Temp OF
0 15 30 45 60 180	437 360 275 189 92	996 996 997 998 999 1000	113	67 68 69 70 71

The shore manney or the Pictured Cliffs test was 1241 NOF/D with an ADF

The results of the above tests indicate there is no packer leakage.

Yeary truly yours,

## RP/nb

on. 4. II. Indgers E. S. Oberly (8) File

#### OPEN FLOW TEST DATA

### DUAL COMPLETION

FORM 2 - 75 FEE

DATE **June 19, 1958** 

El Paso Natural	Fease	San	Juan 28-7 Unit 91 (M)			
836 <b>n, 15</b> 44 <b>E</b> ; 3 <sup>1</sup>	† Courts	Rio	Arriba	State	New Mexico	
Formation Mesa Verde		Pali	Blan	nco		
7-5/8"	Set At Feet 2899	Tubing: Die	rieter	2 <b>"</b>	Set At: Fee	<b>5</b> 023
Pay Zone, From 4380 Stimulation Method	5034	7 dat Depth 510'	7 c/o :	5070		6/11/58
Sand Water Frac		in the second	t, easidi		Flow Throu	gh futing X

Chare Size Inshes		Chake Chairman	5			1
	.75	12.36		5-1/2" liner 2823		
1 Shutain Fress in 1.0s   9	8 (PC)	12 / 751A <b>95</b> 0	8 Shutste	States Freezeure, Tubing 997 (MV)		.009
Flowing Plessice In	i sin i <b>35</b> 9	+ 12 PS:A	371	Working Pressure Pw (Calc.)	PSIG - 12 - PSIA	721
Temperature T	71	75		Fpv (from Tables 1.039	- Gravity	684

Final SIPC (PC) 945 psig

Packer at 2963 1-1/4" at 2749

CHOKE VOLUME Q + C x P, x F, x F, x F, x F, x

g = (12.365)(371)(.9896)(.9393)(1.039)

7,577 MCF 1

S. V. Roberts

WITNESSEL IN Fred Cook (NMOCC)

L. D. Galloway affile

4431 MCF D

DUAL COMPLETION

July 7, 1958

El Paso Natural Gas 836N, 1544E; 34-28-7 Pictured Cliffs			San Juan 28-7 Unit 91 (P)		
			Rio Arriba	New Mexico	
			Undesignated		
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	92	104	113	125
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	71	85	1.007	.640

Initial MV = 996 Final MV = 1000

Packer at 2963

12.365 x 104 x .9896 x 9682 x 1.007

1241 \_\_\_\_MCF\_D

(1.0175)<sup>-85</sup> 1241 = (1.0148) (1241)

1259

Richard Proctor

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Checked By Tom Grant

Holloway.