El Paso Natural Gas Company

El Paso, Texas June 10, 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 Extension and South Blanco Pictured Cliffs Pool. The El Paso Natural Gas Company Florance No. 11-D (PM) is located 1460 feet from the North line and 1700 feet from the East line of Section 18, Township 27North, Range 8 West, N.M.P.M., San Juan County, New Mexico.

This well has been completed in the Point Lookout section 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 173 feet with 150 sacks of cement circulated to the surface.
- 2. 7 5/8" intermediate casing set at 4910 feet and cemented with a two stage cementing procedure; 150 sacks at the base of the casing and 100 sacks across the Pictured Cliffs formation.
- 3. 5 1/2" liner set from 4849 feet to 5311 feet with 100 sacks of cement.
- 4. The casing and liner were tested for leaks before perforating.
- 5. The Point Lookout section was perforated in five intervals and fractured with water and sand.
- 6. The Pictured Cliffs formation was perforated in three intervals and fractured with water and sand.
  - All perforations were cleaned out after treatment and completion was accomplished by setting a Baker Model "EGJ" production packer on 2" EUE tubing at 4674 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. 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.

The offset operators to this well have been notified of El Paso Natural Gas Company's intentions to dually complete this well and in turn have waived any objections to this plan. I am sending copies of the letters of approval received from the offset operators. Also 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.
- (e) Two plats showing the location of the well and offset operators.

It is intended to dedicate the E/2 of Section 18, Township 27 North, Range 8 West to the Mesa Verde formation and the NE/4 of Section 18, Township 27 North, Range 8 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,

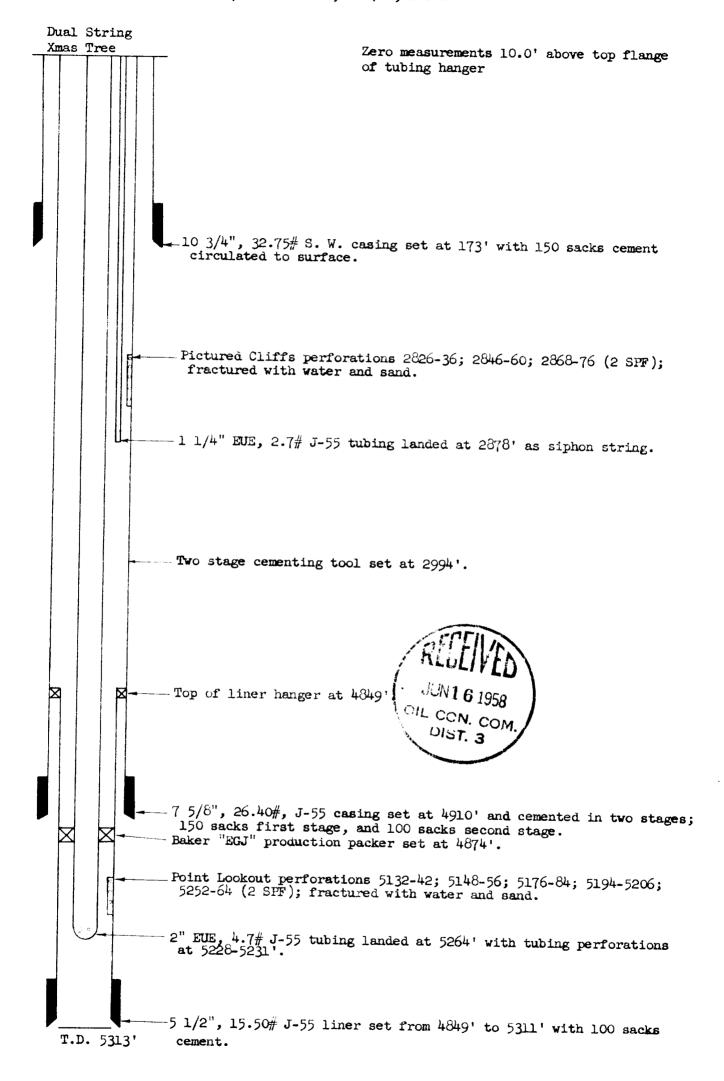
OR.G.NAL SIGNED E.S. OBERLY E.S. Oberly, Division Petroleum Engineer

ESO:dgb

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



# SCHEMATIC DIAGRAM OF DUAL COMPLETION El Paso Natural Gas Co. Florance No. 11-D (PM) NE/4 Section 18, T-27-N, R-8-W



STATE OF NEW MEXICO )
COUNTY OF SAN JUAN )

I, Mack M. Mahaffey, being first duly sworm upon so eath depose and say as follows:

I am an employee of Baker oil Tools, Inc., and that on February 22, 1970, I was called to the location of the El laso Natural Cas Company Florance No. 11-L (PM) Well Located in the SWNE/4 of Section 10, Township 27 North, Range & West, N.M.P.M., for advisory service in connection with installation of a production packer. In my presence, a Baker Model "EGJ" Froduction racker was set in this well at 4074 feet in accordance with the usual practices and customs of the industry.

Mack M. Mahaffry

Subscribed and sworn to before me, a Notary Public in and for San Juan County, New Mexico, the 4th day of June, 1950.

Notary Public in and for San Juan

County, New Mexico

My commission expires February 24, 1900.



Thank The Things

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#### EL PASO NATURAL GAS COMPANY

P. O. Box 997
Farmington, New Mexico
April 18, 1958

Mr. E. C. Arnold Oil Conservation Commission 1000 Rio Brazos Road Aztec, New Mexico

> Re: Packer Leakage Test on the El Paso Natural Gas Company Well, Florance 11-D (PM), 1460N, 1700E; 18-27-8; San Juan County, New Mexico.

#### Dear Mr. Arnold:

The subject well was dually completed in the Pictured Cliffs and Mesa Verde zones and a packer was set at 4874 feet. The Pictured Cliffs zone was tested through a 3/4" choke for three hours April 2, 1958, with the following data obtained:

PC SIPC 795 psig;) shut-in 33 days PC SIPT 802 psig;) MV SIPT 1056 psig; shut-in 33 days

Time Minutes	PC Flowing Pressure Casing PSIC	MV SIPT Psig	PC Working Pressure, Psig	Temp. OF
0		1053		
15	625	1054		54
30	602	1054		56
45	<b>45</b> 2	1055		58
60	354	1056		60
180	494	1056	Tbg. 498	64

The choke volume for the Pictured Cliffs was 6351 MCF/D with an AOF of 9704 MCF/D.

The Mesa Verde zone was tested April 16, 1958, with a 3/4" choke for 3 hours with the following data obtained:

PC SIPC 802 psig; shut-in 14 days PC SIPT 808 psig; MV SIPT 1062 psig; shut-in 47 days



### Florance 11-D (PM) Page Two

Time Minutes	MV Flowing Pressure Tubing Psig	PC SIPC Psig	MV Working Pressure, Psig	Temp. °F
0		802		
15	475	802		61
30	405	803		63
45	394	803		64
60	382	803		64
180	3 <b>3</b> 3	804		6 <b>5</b>
•			Calc. 682	6 <b>5</b>

The choke volume for the Mesa Verde test was 4073 MCF/D with an AOF of 6000 MCF/D. The results of the above tests indicate there is no packer leakage.

Very truly yours,

S. V. Roberts

LDG/nb

cc: W. M. Rodgers
E. S. Oberly (6)
File

rite



#### OPEN FLOW TEST DATA

DUAL COMPLETION			DATEA	oril 16	, 1958	
Operator			ease			
El Paso Natural Gas			Florence No. 11-D (M)			
Location		C	ounty		State	
1460N, 1700E; 1	8-27-8		San Juan		New Mexico	
Formation			00			
Nesa Verde	·		Blanco			
Casing Drameter	Set At: Feet		ubing: Diameter		Set At: Feet	
7-5/8"	490		2"	i	5254	
Pa, Zane: Erom	To.	9	otal Depth;	j		
51.32 51 mu ation Method	526	,4	5312 low Through Casing	l	Shut-in 2/28/58	
		1 +	low Through Casing	·	tiow Through Tubing	
Sand Water Frac						
.75	Chake Constant: C	2.365	5-1/2" liner	4849	to 5311	
Shuttin Pressure, wasing, ————————————————————————————————————	814	Days Shut-In   S-	1062 (MV)		+12 PSIA 1074	
Flowing Prossure; P	on PSIA	i w.	orking Pressure, Pw	PSIG .	- 12 - PSIA	
	34		Calculated		682	
			ov From Tables		Gravity	
<u>. 6</u> 5		5	1.040		.709	

Initial SIFC (PC) 802 PSIG Pkr. at 4874 Final SIFC (PC) 804 PSIG 1-1/4 at 2868

CHOKE VOLUME Q 1 C x P. x F. x Fg x For

Q 12.365 x 345 x .9952 x 0.9225 x 1.040 4073 \_\_\_MCF D

 $(1.6757)^{-75} \times 4073 = 1.4730 \times 4073$ 

Aof 6000 MCF D

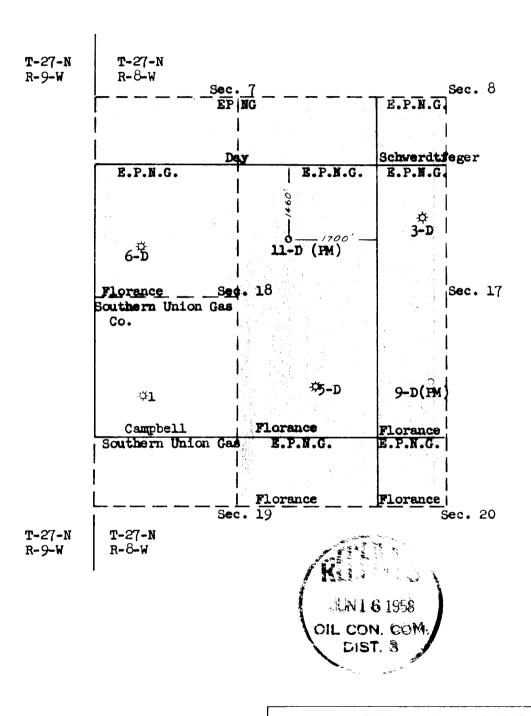
The Jess Goodwin

WITNESSED W/ S. V. Roberts

Checked By: S. V. Roberts

L. D. Galloway

## PLAT SHOWING LOCATION OF DUALLY COMPLETED El Paso Natural Gas Co. Florance No. 11-D (FM) and Offset Acreage



EL PASO NATURAL GAS COMPANY

SCALE DATE No.
DRAWN BY CHECKED BY

FORM 7-132 (10-56)