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 Storey No. 11-C (PM) is located 1748 feet from the North line and 1750 feet from the East line of Section 34, Township 28 North, Range 9 West, N.M.P.M., San Juan County, New Mexico.

This well has been completed in the Point Lockout 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 175 feet with 200 sacks of cement circulated to the surface.
- 2. 7.5/8" intermediate casing set at 4926 feet and cemented in two stages: 200 sacks at the base of the casing and 150 sacks across the Pictured Cliffs formation.
- 3. 5 1/2" liner set from 4833 feet to 5474 feet with 200 sacks of cement.
- 4. The casing and liner were tested for leaks before perforating.
- 5. The Point Lookout section was perforated in three intervals and fractured with water and sand.
- 5. The Pictured Cliffs formation was perforated in one interval and fractured with water and sand.
- 7. All perforations were cleaned out after treatment and completion was accomplished by setting a Baker Model "EGJ" production packer on 2" EUZ tubing at 4882 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 Fictured 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.

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 El Paso Natural Gas Company holds all leases immediately adjacent to the drilling block, approval to dually complete this well has not been requested 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.
- (a) Two copies of the initial potential test showing commercial production from the two formations.

It is intended to dedicate the N/2 of Section 34, Township 28 North, Range 9 West to the Mesa Verde formation and the NE/4 of Section 34, Township 28 North, Range 9 West to the Pictured Cliffs formations.

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

Yours very truly,

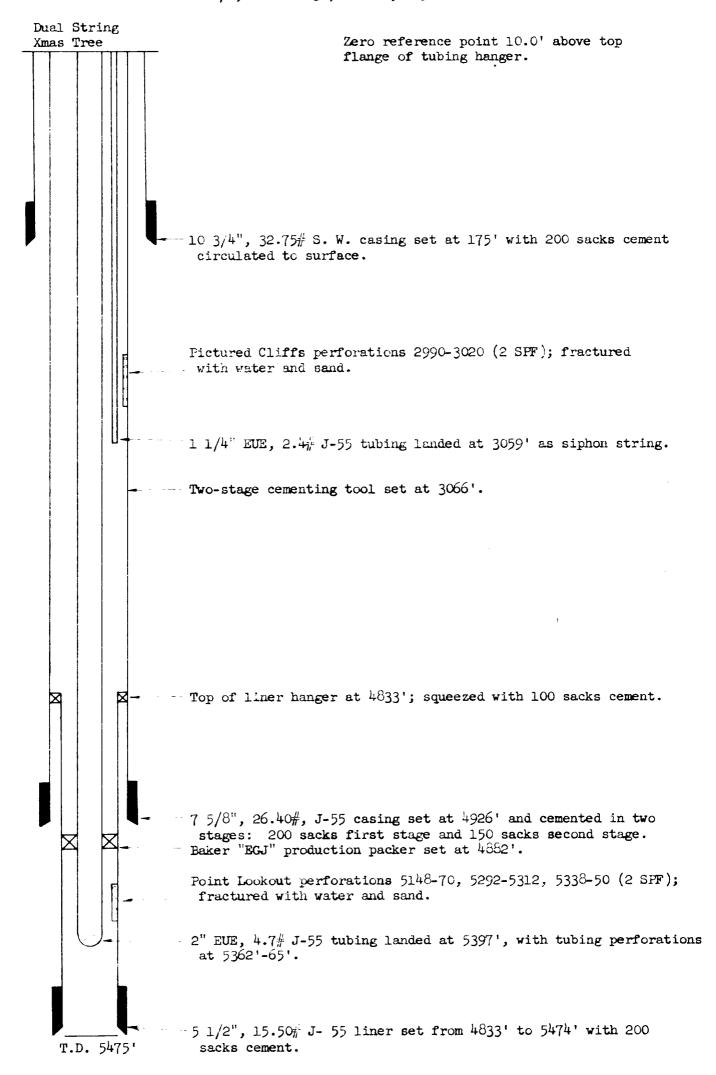
OR'G'NAL SIGNED E.S. OBERLY

E. S. Oberly, Division Petroleum Engineer

ESO:dgb

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

SCHEMATIC DIAGRAM OF DUAL COMPLETION El Paso Natural Gas Co. Storey No. 11-C (PM) NE/4, Section 34, T-28-N, R-9-W



STATE OF MAN LEADER
COUNTY OF SAM JUAN

I, Mack M. Mahaffe,, being first only sworm upon my outh depose and say as follows:

June 15, 1990, I was called to the Location of the Li laso Natural Gas Company Storey No. 11-C (FM) Well located in the SWHM/4 of Section 34, Township 25 North, Sange 9 West, N.M.-.M., for advisory service in connection with installation of a production packer. In my presence, a Paker Model "EGG" Production Packer was set in this well at 40.2 feet in accordance with the usual practices and customs of the industry.

mack m. makoffy

Sun Juan County, New Mexico, the 16th day of July, 1950.

Notary Fublic in and for San Juan County, New Mexico

by commission expires February 24, 1960.

BL FASO MATURAL WAS COMMANY

o. O. Box 997 Pirmington, Rea Mexico

Jì	ılv	7.	1958	
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An. E. G. Armold
Oil Conservation Communicion
1 De Rio Prezos Frad
Assec, New Maxico

Re: Sector Leading Post on the El Saso Natural Cast Company Well; Storey No. 11-C (PM), 1748N, 1750E; 34-28-9, San Juan County, New Mex. (Name - Location - Company)

Twar Mr. Armold

zonas and a through a b	packer was set at 5853 /4" choice for three hours	June 30, 1958 with	de zone was tested h the following deta obtained:
	C RIC 715	paig, Shut-in <u>15</u>	days
	10 327 <u>715</u>	psig;	
	982	reig: Shart-in15	jaya
Time Unutés	(MV) Cowing Cressure Tubing 3312	pc) SI (c) sig	() Working Pressure, Sig Pean ()
15 30 45 60 120	426 386 366 3 5 1 30 9	717 718 718 718 718 718	63 64 65 65 66
180	293	718	67

The choke volume for the Mesa Verde was 3568 MCF/D with an AOF or 5045 MCF/D.

The Pictured Cliffs Lone was tested July 7, 1958 with a 1/4" choke for 5 hours with the following data obtained:

10 SINC 731 psig: Shut-in 22 days
10 SINT 731 psig: Shut-in 15 days

- -

July 7, 19**5**8

1.176	(PC) in Arra Topotion		(PC) bonding	
	Casing -	MV of The	recaure, leis	13.4
15	490	998		62
30	445	1002	452	64
45	3 99	1003	·	6 6
60	373	1004	3 83	68
120	3 08	1005	319	68
180	273	1005	282	68

#015 Pictured Cliffs town was 3474 CMT with an ADM

The reality of the above tests indicate there is no packer leakness.

Tray brist your co

R. R. Davis Gas Engineer

RRD/nb

ent (.), odgers, E. d. Oberly (.) Film

OPEN FLOW TEST DATA

DUAL COMPLETION

FORM THE CONT.

DATE June 30, 1958

Operator El Paso Natural G	es Sas	Storey 11-C (M)			
. acathor		County	State		
1748N, 1750E; 34	1-28-9	San Juan	New Mexico		
Sekara Mesa Verde		Blanco			
7-5/8	Ser At: Feet 4915	Tubing: Diameter 2	Set At: Feet 5388		
5248	535 0	Total Depth: 5475 c/o 5438 Claw Through Casing	Shut-in 6/15/58		
Sand Water Frac.		ji fifaw Through Casing 	Thiow (brough lubing		

of one transmines		12.365	C	Packer at 5853	5-1/2 1	iner 4833	- 5475
Sharm Place of as	(PC) 715	* 12 PSIA 727	Days Shut-In 15	Shuttin Finascial Tubing (MV) 982		- 12 PSIA	994
Fraking See Scientific	29 3	1 PS.A 1. 305	5	the second secon	PSIG alc.	- 12 - PSIA -+	604
67		· · · · · · · · · · 75	5	Fev:From Tables	L.0 <u>3</u> 6	· Gravity - · · · · · · · · · · · · · · · · · · ·	.710

Final SIPC (PC) = 718 psig

CHOKE MOLLINE OF BUX PL X FL X Fg X FeV 3568 _____MCF D 12.365 (305)(.9933)(.9193)(1.036) $(1.5853)^{.75} \times 3568 = 1.4140 \times 3568$ 988036 623220 5045 MOF D

R. R. Davis

A Mark L. Com

e D. Stalloway. L. D. Galloway

DUAL COMPLETION

July 7, 1958

El Paso Natural Ges Company			Storey 11-C (P)		
1748n, 1750E; 34-28	3-9		San Juan	New Mexico	
Pictured Cliffs			South Blanco P.C.		
7 -5/ 8	4915		1-1/4	3049	
2990	3020	}	5475 c/o 5438	Shut-in 6/15/58	
Sand Water Frac	.,		X		
.75	12.36		5-1/2 liner 4833 - 54	75	
(PC) 731	743	22	(PC) 731		
273		285	2 82	294	

Initial SIPT (MV) = 996

68

Final SIPT (MV) = 1005

2" at 5388
Packer at 5853

1.026

(12.365)(285)(.9924)(.9682)(1.026)

.85

3,474

.640

552049 46**5**613 1.1856^{.85} (3474) = 1.1558 (3474)

4015

R. R. Davis