El Paso Natural Gas Company

El Paso, Texas
July 30, 1950

ADDRESS REPLY 1.
POST OFFICE BOX 997
SARMINGTON NEW MEXI-

Mr. A. L. Porter Secretary and Director Oil Conservation Commission Box 671 Santa Fe, New Mexico

Dear Sir:

This is a request for administrative approval for a well dually completed in the Blanco Nesa Verde Pool and Tapacito Pictured Cliffs Fool Extension. The all Paso Natural Gas Company San Juan 27-5 Unit No. 33 (FM) is located 1650 feet from the North line and 1550 feet from the East line of Section 26, Township 27 North, Range 5 W st, N.M.P.M., Rio Arriba County, New Mexico.

This well has been completed in the Foint 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 171 feet with 150 sacks of cement circulated to the surface.
- 2. 7 5/8" intermediate casing set at 3540 feet with 200 sacks of cement. Top of the cement is at 2200 feet, which is above the top of the Pictured Cliffs at 3309 feet.
- 3. 5 1/2" liner set from 3499 feet to 5701 feet with 300 sacks of dement.
- 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 Pictured Cliffs formation was perforated in two intervals 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" EUE tubing at 3535 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.
- 3. 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 Gil 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.

The acreage decicated to this well lies entirely within the boundaries of the San Juan 27-5 Unit. Since El Paso Natural Gas Company is the only operator of the unit, approval has not been sought from any other operator to dually complete this well. 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 \$/2 of Section 26, Township 27 North, Range 5 West to the Mesa Verde formation and the NE/4 of Section 26, Township 27 North, Range 5 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,
ORIGINAL SIGNED E.S. OBERLY

E. S. Oberly, Division Petroleum Engineer

ESO:dgb

cc: NMOCC (2) (Emery Arnold)-Sam Smith USGS (Fhil McGrath)

SCHEMATIC DIAGRAM OF DUAL COMPLETION El Paso Natural Gas Co. San Juan 27-5 Unit No. 33 (PM) NE/4 Section 26, T-27-N, R-5-W Dual String Zero reference point 10.0' above top flange of tubing hanger 10 3/4", 32.75# S. W. casing set at 171' with 150 sacks cement circulated to surface. Pictured Cliffs perforations 3364-3400; 3414-36 (2 SPF); fractured with water and sand. -11/4" EUE, 2.4# J-55 tubing landed at 3430' as siphon string. Top of liner hanger at 3499'. --7 5/8", 26.40# J-55 casing set at 3540' with 200 sacks cement. Baker "EGJ" production packer set at 3535'. Point Lookout perforations 5506-32; 5544-58; 5568-80; 5630-50 (2 SPF); fractured with water and sand. -2" EUE, 4.7# J-55 tubing landed at 5639', with tubing perforations at 5605-5608'. -5 1/2", 15.50# J-55 liner set from 3499' to 5701' with 300

sacks cement.

T.D. 5703'

I, Mack M. Mahaffey, being first duly sworn upon my oath depose and say as follows:

I am an employee of Baker Oil Tools, Inc., and that on June 19, 1958, I was called to the location of the El Paso Natural Gas Company San Juan 27-5 Unit No. 33 (PM) Well located in the SWNE/4 of Section 26, Township 27 North, Range 5 West, N.M.P.M., for advisory service in connection with installation of a production packer. In my presence, a Baker Model "EGJ" Production Packer was set in this well at 3535 feet in accordance with the usual practices and customs of the industry.

Mach M. Michaffy

Subscribed and sworn to before me, a Notary Public in and for San Juan County, New Mexico, the 31st day of July, 1958.

Notary Public in and for San Juan County,

NOT -----

My commission expires February 24, 1960.

EL PASO NATURAL GAS COMPANY

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July	18.	1958	
U 44.7		±770	

Mr. E. C. Arnold Dil Conservation Commission 1000 Rin Brazos Toad Aztec, New Mexico

Re: Tacker Leakage Test on the El Faso Natural Gos Company Well, San Juan 27-5 No. 33 (PM), 1650N, 1550E; 26-27-5, Rio Arriba, New Mex.

(Name - Location - Company)

Dear Mr. Armold:

zones and a m	acker was set at 3535	pleted in the <u>Pictured</u> feet. The <u>Mesa Verd</u>	le zone was tes	sted
	0 8150 1035	psig; Shut-in 22	days	
	FC 31FT 1035	psig;		
	W SHT 1140	psig; Shut-in 22	days	
Time Inutes	(MV. Flowing Pressure Tubing Fsig	(PC) SIP (C) Psig	() Working Pressure, Fsig	Temp C F
0 15 30 45 60 180	381 312 277 254 186	1036 1037 1037 1037 1037	Calc. 383	63 63 65 64 65
The chok 2564 MO	e volume for the Mesor/P.	vas <u>2334</u>	•	
The Property for 3 hours w	ctured Cliffs zone want the following data	s tested July 18, obtained:	1958 with a 3	/4" choke
	IC SIFC 1046 ps	sig; Shut-in	days	
	FC SIFT 1046_ ps	sig;		

NV SINT 1134 psig; Shut-in 29 days

lage Two

July 18, 1958

1.1

Time Minu	(10 - 120 min 6 - 1000 tm 6	(MV) SIP (T) Paig	(PC) Working tbg.	Temp o F
0 15 30 45 60 120 180	707 667 642 627 541 460	1135 1136 1137 1138 1138 1139	Calc. 482	61 61 63 63 65 66
of _	The choke mounte for the P1.	ctured Cliffs test was	5771 MCF/D with a	un AOF

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

Very truly yours,

Frank Clark Gas Technician

FC/nb

co: W. M. Modgers E. 3. Oberly (d) File

OPEN FLOW TEST DATA

DUAL COMPLETION		DATE July 9, 1958		
El Paso Natural Gas	- -	San Juan 27-5 No		
1650N, 1550E; 26-37-	-5	Rio Arriba	New Mex.	
Mesa Verde		Blanco MV	•	
7-5/8	3530	Tutting: Diameter 2"	Sar Ati Feet 5629	
5506	5650	5703 e/o 5671	Shut-in 6/19/58	
Sand Water Frac.		<u> 200</u>	X	
.75	12.365	5-1/2 liner 3499	0-5701 PSG - 12 FMA	
1035 (PC)	1047 22	1140 (MV)	1152 PS-5 12 PS-14	
186	198	Acres of Procedure, Pw Four Front Cobies	Gravity 395	
	•75 =	1.020		
	f. x f. x f. x f. x f. y 5 x 19 8 x . 9952 x . 939	93 x 1.020	. 2,334 MCF D	
12.36		93 x 1.020	. 2,334 MCF D	
12.36	5 x 198 x .9952 x .939	.1332 (2334) = (1.0984)		
12.36	5 x 198 x .9952 x .939			
12.36	2,564 MCF D			
12.36	2,564 MCF D	.1332 (2334) = (1.0984)	(2334)	
12.36	1327104 n 2,564 MCF D	.1332 (2334) = (1.0984)		

Checked By _____ Tom Grant

OPEN FLOW TEST DATA

DUAL COMPLETION	DATE July	18, 1958
Operator	Lease	
El Paso Natural Cas	San Juan 27-5 Unit 3	State
1650N, 1550E; 26-27-5	Rio Arri ba	New Mexico
Formation Pictured Cliffs	Undesignated	
Casing: Diameter Set At: Feet 7-5/8 3530	Tubing: Diameter 1. 1-1/4	Set At: Feet 3420
Pay Zone, From 3364 3436	Tatal Death: 5703 c/o 5671	Shut-in 6/19/58
Stimulation Method	Flow Through Casing	Flow Through Tubing
Sand Water Frac.	X	<u> </u>
Choke Size, Inches Choke Cunstant: C		
.75 12.365	5-1/2 liner 3499 - 5	701
Shuttin Frencise, Cosing. PS(3) 12 - ES(4) 1 Days Shutting 1046 1058 29	n Shut-In Pressure, Tubing PSIC 1046	1058
Flowing President P MSIG 12 - PSIA	: Working Pressure P. PS(3 - 12 - PSIA
Femperature: T	(PC) 482	Gravity
6685	1.051	.670
Initial SIPT (MV) 1134 psig Final SIPT (MV) 1139 psig	Packer at 3535	
IOKE VOLUME 4 Q + C x P, x F, x Fg x Fp	•	
G 12.365 x 472 x .9943 x .94		71 MCF/E
	*	
2		
PEN FLOW Act O (
\		
111036	2727°85 5771 _ 1 2225 - 5	771
1119364) 1.	27 87^{.85} x 5771 = 1.2325 x 5	771
1119364 875328	2787 ^{.85} x 5771 = 1.2325 x 5	771
1119364 875328	2787 ^{.85} x 5771 = 1.2325 x 5	771
Aof 7113 MCF D	2787 ^{.85} x 5771 = 1.2325 x 5	771
·	2787 ^{.85} x 5771 = 1.2325 x 5	771
	2787 ^{.85} x 5771 = 1.2325 x 5	7771

PLAT SHOWING LOCATION OF DUAL COMPLETION El Paso Natural Gas Co. San Juan 27-5 Unit No. 33 (PM) T-27-N, R-5-W

