El Paso Natural Gas Company

El Paso, Texas

August 7, 1958

ADDRESS REPLY TO POST OFFICE BOX 997 FARMINGTON, NEW MEXICO

Mr. A. L. Porter Secretary and Director Cil 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 Wildcat Pictured Cliffs Pool. The El Paso Natural Gas Company San Juan 28-6 Unit No. 78 (PM) is located 990 feet from the North line and 800 feet from the East line of Section 1, Township 27 North, Range 6 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 173 feet with 150 sacks of cement circulated to the surface.
- 2. 7 5/8" intermediate casing set at 3458 feet with 150 sacks of cement. Top of the cement is at 2410 feet, which is above the top of the Pictured Cliffs at 3270 feet.
- 3. 5 1/2" liner set from 3399 feet to 5688 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 five intervals and fractured with water and sand.
- 6. The Cliff House section was perforated in one interval and fractured with water and sand.
- 7. The Pictured Cliffs formation was perforated in two intervals and fractured with water and sand.
- 8. All perforations were cleaned out after treatment and completion was accomplished by setting a Baker Model "EGJ" production packer on 2" EUE tubing at 3453 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.

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 dedicated to this well is within the San Juan 28-6 Unit, and bounded on the East by the San Juan 27-5 Unit. Since El Paso Natural Gas Company is sole operator of both units, 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.
- (e) Two plats showing the location of the well and offset operators.

Copies of the electrical and radioactive logs will be sent to you under separate cover.

It is intended to dedicate the E/2 of Section 1, Township 27 North, Range 6 West to the Mesa Verde formation and the NE/4 of Section 1, Township 27 North, Range 6 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,

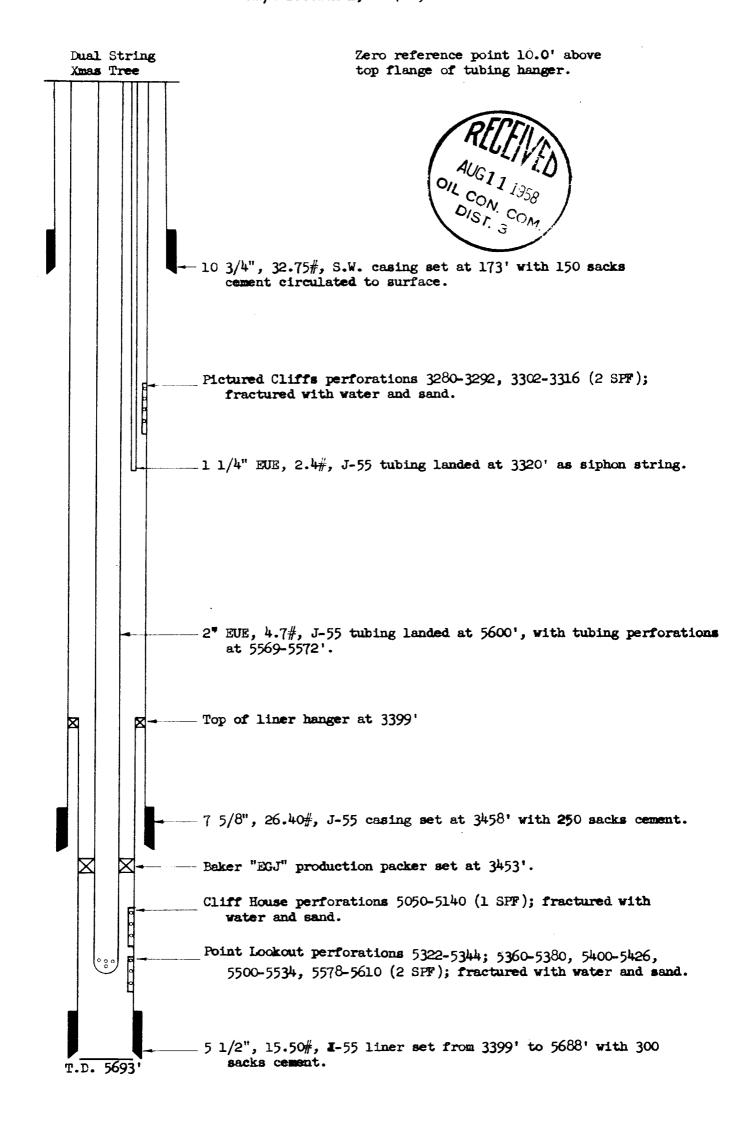
ORIGINAL SIGNED E.S. OBERLY E.S. Oberly Division Petroleum Engineer

ESO:bjn

cc: NMCCC (2) (Emery Arnold)
Sam Smith

USGS (Phil McGrath)

File



STATE OF NEW MEXICO

COUNTY OF SAN JUAN

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 March 15, 1958, I was called to the location of the El Paso Natural Gas Company San Juan 28-6 Unit No. 78 (PM) Well located in the NENE/4 of Section 1, Township 27 North, Range 6 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 3453 feet in accordance with the usual practices and customs of the industry.

Mark M. Mahaffy

Notary Public in and for San Juan County,
New Mexico

My commission expires Febryary 24, 1960.

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DIST. 3

EL PASO NATURAL GAS COMPANY

P. O. Box 997 Farmington, New Mexico

July 30, 1958

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

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CON COM

Re: Packer Leakage Test on the El Paco Natural Gas Company Well, San Juan 28-6 Unit 78 (PM)

990N, 800E; 1-27-6; Rio Arriba, New Mexico.

(Name - Location - Company)

Dear Mr. Arnold:

zones and a p	ect well was dually con acker was set at 3453 " choke for three hours	if feet. The Pintung	d Cliffs and Mesa Verde d Cliffs zone was tested h the following data obtaine	
	PC SIPC 1108	psig; Shut-in 16	days	
	PC 3IFT 1108	psig;		
	MV SIPT <u>1098</u>	psig; Shut-in 16	days	
Time Minutes	(PC) Flowing Fressure Casing Psig	(MV) SIP (T) Psig	(PC) Working Pressure, Fsig Temp	ŗ
0 15 30 45	667 53 2	1098 1098 1100	70 72	
45 60 180	486 448 292	1101 1102 1103	73 74 Calc. 303 75	} }
3771 MC	e volume for the Pict		MCF/D with an AOF of	
for 3 hours w	ith the following data	obtained:	1.958 with a 3/4" chok	e
		ig; Shut-in 20	days	
	MV SIFT 1096 ps	ig; Shut-in 36	days	

Time Minutes	(MV) Flowing Pressure Tubing Psig	(PC) SIP (C) Psig	(MV) Working Pressure, Psig	Temp OF
0		1105		
15	5 33	1108	,	62
3 0	482	1109	ż	64
45	465	1110		6 5
60	455	1110		6 5
180	394	1110	Cale. 807	70

The choke volume for the <u>Mesa Verde</u> test was 4854 MCF/D with an AOF of 8786 MCF/D.

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

Very truly yours,

S. V. Roberts Cas Engineer

SVR/nb

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



DUAL COMPLETION

July 30, 1958

990N, 800E; 1-27-6				San Juan 28-6 Unit 78 (M)		
				Rio Arriba	New Mexico	
Mesa	Verde			Blanco MV		
	7-5/8	n occinion	3446	2	5 59 0	
	5322		557 6	5690 c/o 5645	Shut-in 6/24/58	
Sand V	Water Frac				X	
.75 12.365		12.365	5-1/2 liner 3399 - 5688			
	1105 (PC)	1117	36 (MV)	1096 (MV)		
	394 (MV)		406	Calc.	819	
	70		-75	1.043	.689	

(12.365)(406)(.9905)(.9359)(1.043)

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1,227,664 556,903 $(2.2044)^{.75}$ (4854) = (1.8100)(4854)

8786

S. V. Roberts

L. D. Galloway

DUAL COMP	LETION	DATE July 1	0, 1958
El Paso Natur	al Gas Company	San Juan 28-6 No.	
990 n, 860e ;	1-27-6	Rio Arriba	State New Mex.
Pictured Cliff	Pa _l	Undesignated	
7-5/8	3446	1-1/4	Set At: Feet 3310
328 0	3316	5690 c/o 5645	Shut-in 6/24/58
Sand Water Fra	ke.	X	Flow Through Tubing
and the state of the state of	Toka Leskin C		
(PC) 1108	1911 - 12 - 2514 - 12 - 3mit - 1 1120 - 16	5-1/2 liner 3399 - 56 (PC) 1108	688. G - 11 - 1844 1120
292	#816 17 1944		G 12 PS(A
75		1 070	700
Fimal SIPT (MV Initial SIPT (Packer at 3453 2" at 5590	
DHOKE MOTTHER T	f x F, x . x F ₄ x F ₅ .	- 2. ///	
Ċ.	12.365 x 304 x 9859 x 9258 x	c 1.032	3541 MCF D
organis (14 o 1788 o 1980)			
	1232100 1132875 1.08		

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Richard Proctor

Checked By _____ Tom Grant

Lewis P. Lalloways

PLAT SHOWING LOCATION OF DUALLY COMPLETED EPNG SAN JUAN 28-6 UNIT NO. 78 (PM) AND OFFSET ACREAGE

