El Paso Natural Gas Company

El Paso, Texas August 7, 1958

ADDRESS REPLY IC POST OFFICE BCX 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 Tapacito Pictured Cliffs Pool. The El Paso Natural Gas Company San Juan 27-5 Unit No. 36 (PM) is located 1650 feet from the North line and 1665 feet from the East line of Section 36, Township 27 North, Range 5 West, N.M.P.M., Rio Arriba 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 3/8" intermediate casing set at 4108 feet with 150 sacks of cement. Top of the cement is at 3250 feet, which is above the top of the Pictured Cliffs at 3919 feet.
- 3. 5 1/2" liner set from 4042 feet to 6271 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 Fictured 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 "ECJ" production packer on 2" EUE tubing at 4092 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.
- 8. 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 offset operators to the acreage dedicated to this well have been notified of the El Paso Natural Gas Company's intention to dually complete the well, and these offset operators have waived all objections to such plans. Enclosed are copies of the waivers. 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.

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 36, Township 27 North, Range 5 West to the Mesa Verde formation and the NE/4 of Section 36, 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,

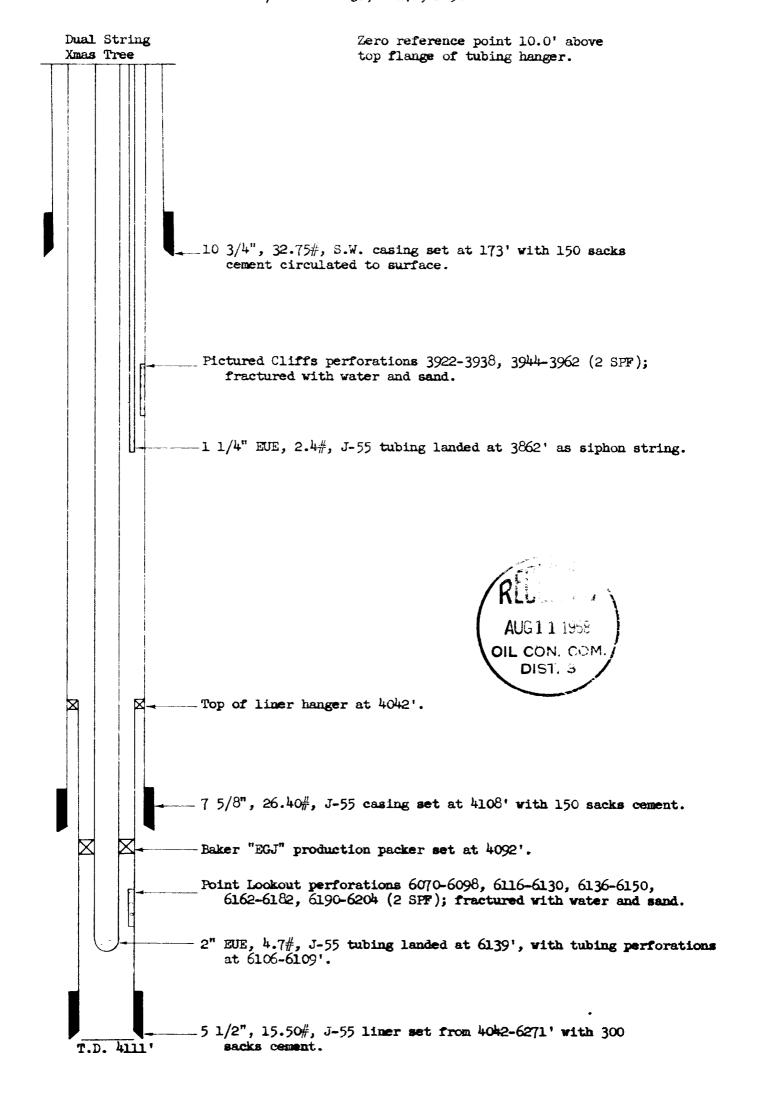
ORIGINAL SIGNED E.S. OBERLY

E. S. Oberly Division Petroleum Engineer

ESO:bjn

cc: NMCCC (2) (Emery Arnold)
Sam Smith
USGS (Phil McGrath)
File





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 bil Tools, Inc., and that on July 11, 1958, I was called to the location of the El Paso Natural Cas Company San Juan 27-5 Unit No. 36 (PM) Well located in the SWNE/4 of Section 36, 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 "ECJ" Production Packer was set in this well at 4092 feet in accordance with the usual practices and customs of the industry.

Mark Mi Maharkey

Subscribed and sworn to before me, a Notary Public in and for San Juan County, New Mexico, the $\frac{g}{g}$ day of $\frac{Avg}{g}$, $\frac{1958}{g}$.

Notary Public in and for San Juan County,

New Mexico

My commission expires Febryary 24, 1960.



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. 0. Box 997 Canaligation, New Mexico

July 28, 1958

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Sor Tacher Teahage Pest on the El Tash Saturnl Past Company Well, San Juan 27-5 Unit 36 (PM), 1650N, 1665E: 36-27-5. Rio Arriba Co., New Mex. (Mage - Location - Company)

Four W. Armold:

The subject well was deadly completed in the <u>Pictured Cliffs</u> and <u>Mesa Verde</u> zones and a packer was set at <u>4092</u> feet. The <u>Pictured Cliffs</u> zone was tested through a 3/4" choke for three hours <u>July 21, 1958</u> with the following data obtained: 10 3110 **393** paig; Shut-in **10** days FC STAT 895 paig; 100 3214 1086 gsig; Shut-In 10 days PC Flowing ressure Time (MV) Working linutes Casing 31g MV) Siz (T) Psig Pemp C v Pressure, Psig 0 1086 15 717 1082 <u> 5</u>0 644 1083 64 45 623 1084 65 60 606 1084 623 ú6 180 452 1086 479 68 The choke volume for the Pictured Cliffs was 5626 MCF/D with an AOF of

7555 CF/D.

The Mesa Verde zone was tested July 28, 1958 with a 3/4" choke for thours with the following data obtained:

C SIC 992 psig; Thut-in 7 days

C SIC 994 psig;

100 SET 1086 psig; Shut-in 17 days

i 122 Timbes	MV) Clowled Cropsure Tubing Sig	(PC 31) (C) (sig	(MV) Working ressure, taig	Temp ^O P
0		992		
15	482	99 2		63
30	32 6	9 92		63
45	287	993		64
60	21 6	994		64
180	191	99 5	Calc. 405	6 5

The shows	rolaw Ion	, 0 ,0	Mesa Verde	2446	100/6 with	na ADT
 2749	11 C F (*).					

the results of the derivations in least there is no packer leakage.

Wery traly yours,

RP/nb

co (. V. odgess C. S. Jacoby ())



DUAL COMPLETION

July 28, 1958

1650N, 1665E; 36-27-5 Mesa Verde			Rio Arriba	New Mexico	
			Blanco MV		
·	7-5/R	4108	2"	6129	
	6070	6204	6286 c/o 6214	Shut-in 7/11/58	
and Wat	er Frac			X	

(PC) 992 1004 17 (MV) (MV) 1086 1098 191 203 Calc. 417 б**5** .75 1.019 ნ**5**0 Initial SIPT (PC) = 994 psig

Final SIPC (PC) = 995 psig

Packer at 4092

12.365 x 203 x 9952 x 9608 x 1.019

2446

1205604 1031715

 $(1.1685)^{.75} \times 2446 = 1.1239 \times 2446$

2749

AUG11 1958 OIL CON. COM

Richard Proctor

Checked By S. V. Roberts

D. Dallowayo L. D. Galloway

DUAL COMPLETION

July 21, 19**5**8

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El Pasc Natural (les	Sen Juar	Sen Juan 27-5 Unit 36 (P)			
1650N, 1665E; 30	5-27-5	Rio Arri	Rio Arriba		New Mexico	
Pictured Cliffs		Tapacito	Tapacito			
7-5/	3 4108	}	1-1/4	385	52	
3 922	2962	6286 c/c	6214	Shut-in 7/1	1/58	
Sand Water Frac.		X	· · · · · · · · · · · · · · · · · · ·		· 	
.75	12.3	365 Packer a	it 4092	a to the state of		
(PC) 893	905	10 (1	PC) 895	907	7	
452	464	479		491	L	
58	.85	1.052		.68	3	

Initial SIPT (MV) 1086 psig Final SIPT (MV) 1086 psig

12.365 x 464 x .9924 x .9393 x 1.052

5626

822649 **5**81**5**68 1.4145 (5626) = 1.3428 (5626)

7555

AUG 1 1 1958 OIL CON. COM

M. W. Rischard

Checked By Tom Grant

Lemo D. Salloway

PLAT SHOWING LOCATION OF DUALLY COMPLETED El Paso Natural Gas Co. San Juan 27-5 Unit No. 36 (PM) and Offset Acreage

