El Paso Natural Gas Company

El Paso, Texas

April 11, 1957

DIRECT REPLY TO:
P.O. 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 to request administrative approval of a well dually completed in the Blanco-Mesa Verde and Aztec Pictured Cliffs Extension Pools. The El Paso Natural Gas Company Turner No. 1-A (PM) is located 1800 feet from the South line, 1650 feet from the West line, Section 34, Township 31 North, Range 11 West, N.M.P.M., San Juan County, New Mexico. This well is completed in the Point Lockout member of the Mesa Verde formation and in the Pictured Cliffs formation. Completion has been accomplished in the following manner:

- 1. 16" conductor pipe set at 30 feet. Not cemented.
- 2. 10-3/4" surface casing set at 172' with 150 sacks of cement circulated to surface.
- 3. 7-5/8" intermediate casing set at 4360' with 300 sacks of cement.
- 4. 5-1/2" liner set from 4293' to 4655' with 150 sacks of cement.
- 5. Protection of the Pictured Cliffs formation was accomplished by circulating cement behind 7-5/8" casing before perforating. The casing and liner were both tested for leaks. None were found.
- 6. The Point Lookout formation was perforated with 5 intervals and sand-water fraced through the 5-1/2" liner.
- 7. The Pictured Cliffs formation was perforated with 2 intervals and sand-water fraced through the 7-5/8" casing.
- 8. After cleaning out both formations a 2" EUE tubing was run with a Baker Model "EGJ" production packer to separate the Mesa Verde and Pictured Cliffs formations. The Mesa Verde formation will be produced through the 2" tubing.
- 9. The Pictured Cliffs formation will be produced through the 7-5/8" casing. A syphon string consisting of 1-1/4" line pipe was run to a point opposite the Pictured Cliffs formation.

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- 10. A Garrett circulating sleeve was installed in the 2" tubing string just below the Pictured Cliffs perforation. This sleeve will enable bottom hole pressure surveys to be taken if they are required at a future date.
- 11. Initial potential tests have been run and commercial production has been found from both zones. Also a packer leakage test has been run and witnessed by the Aztec Oil Conservation Commission office. This test shows no communication in the well bore between the two producing formations.

Administrative approval is asked for this dual completion to allow production from both known producing formations without the high initial cost of drilling two wells.

I am enclosing one letter of approval from one offset operator. The other two offset operators of this well are also communitized interest owner and were not specially notified. Also enclosed are:

- (a) Two copies of the schematic diagram of the mechanical installations.
- (b) Two copies of an affidavit from the packer setting company stating that the packer used was set at the depth shown.
- (c) Two copies of the packer leakage tests as observed by a member of the Oil Conservation Commission.
- (d) Two copies of the initial potential test showing commercial production in these zones.
- (e) Two copies of plats showing location of this well and offset operators.

It is intended to dedicate the W/2 of Section 34 to the Mesa Verde production and the SW/4 of Section 34 to the Pictured Cliffs production.

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

Yours very truly,

ORIGINAL SIGNED E. J. COEL

E. J. Coel Senior Petroleum Engineer

EJC/gks

cc: Emery Arnold R. L. Hamblin
Phil McGrath



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DUAL COMPLETION

OPEN FLOW TO DATA

CARE March 29, 1957

El Paso Natural Gas Company		Turner # 1-A	
1850'S, 1650'W, Sec. 34-	31-11	San Juan	New Mexico
Pictured Cliffs		Undesignate	ed Switch Feet
7 5/8	4350	1 1 1 1	2220
2186	2230	4670 c/o - 4610 F	Packer at 4353
Sand Water Fra	.c	X	-

Thomas Size, tarres	•750	14.1605	5½ liner 4293	- 4655
South From the	655	667 7	656	668
Flowing Frenchie	164	176	168 -	180
Temperatur 1	67	•85	1.018	•673

SIP (MV) 1025 psig. Ending SIP (MV) - 1031 psig

CHORE YOU WELL OF KID IN ELIK FE

 $_{\odot}$ 14.1605 x 176 x .9933 x .9463 x 1.018 2385

MUE D

 $(1.0782)^{.85} \times 2385 = 1.0661 \times 2385$

2543 MCF 1

K. C. McBride

A. R. Kendrick (O.C.C.)

cc: E. J. Coel (6)

L. D. Galleway

DUAL COMPLETION

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OPEN FLOW TEST DATA

April 5, 1957

El Paso Natural Gas Company 1850'S, 1650'W, Sec. 34-31-11		- .	Turner # 1-A		
		· · · · ·	San Juan	New Mexico	
Mesa Ver	rde			Blanco	Tue As Fees
em og er	7 5/8	Fpr St Feet	350	2**	4563
v . ' e ' ' '	4448	45	593	4670 - c/o -	4610
resident of the second of the	Sand Wat	er Frac		in the state of th	X

English on a second	•750		•365	5½ liner - 4	
674	(PC)		14	1057	1069
	37	entra de la Companya	⁻ ‰	Calculated	655
7	0	•	•75	1.033	.662

Ending SIPC (P.C.) - 677 psig

 $_{\odot}$ 12.365 x 349 x .9905 x .9535 x 1.033 4210

5991 ym 6

K. C. McBride

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cc: E. J. Coel (6)

EL PASO NATURAL GAS COMPANY

P. O. Box 997 Farmington, N.M. April 5, 1957

Mr. E. C. Arnold Oil Conservation Commission 120 East Chaco Aztec, New Mexico

Re: Packer Leakage Test on the El Paso
Natural Gas Company Well, Turner
1-A, SW 34-31-11, San Juan County,
New Mexico.

Dear Mr. Arnold:

This well was dually completed in the Pictured Cliffs and Mesa Verde formations. A Production Packer was set at 4353 feet. The Pictured Cliffs zone was tested March 29, 1957 with the following results:

Pictured Cliffs SIPT - 656 psig (shut-in 7 days)
Pictured Cliffs SIPC - 655 psig
Mesa Verde SIPT - 1025 psig

The casing was opened at 11:15 A.M. and flowed for three hours through a 3/4" choke.

Time	Casing Choke Pressure Psig	Temp. OF	Tubing Pressure Psig
11:15 11:30 11:45 12:00 12:15 12:45 1:15 1:45 2:15	Opened casing 351 259 237 220 201 183 172 164	67	1025 1029 1030 1030 1031 1031 1031 1031

The calculated choke volume was 2385 MCF/Day. After the well was shut-in 7 days, the Mesa Verde zone was tested with the following results:

Pictured Cliffs SIPC - 674 Mesa Verde SIPT - 1057 psig (shut-in 14 days) The tubing was opened at 10:20 A.M. through a $3/4^n$ positive choke and flowed for three hours.

Time	Tubing Choke Pressure Psig	Temp. OF	Casing Pressure Psig
10:20 10:35 10:50 11:05 11:20 11:50 12:20 12:50 1:20	Opened tubing 454 431 404 394 370 358 345 337	70	674 676 677 677 677 677 677 677

The calculated choke volume was 4210 MCF/Day. The results of the tests obtained indicate there is no packer leakage.

These tests were witnessed by Mr. A. R. Kendrick of the New Mexico Oil Conservation Commission.

Very truly yours,

K. C. McBride Gas Engineer

KCMcB/jla

cc: W. T. Hollis
W. M. Rodgers
E. J. Coel, Jr. (6)

File

Ferm. 23-24 Prev. - -

EL PASO NATURAL GAS COMPANY GAS WELL TEST

Mr. E. E. Alsup To:

Date: April 5, 1957

Gas Engineering Department From:

Place: Farmington, New Mexico

DUAL COMPLETION

Subject:

Test data on the El Paso Natural Gas Company Well, TURNER # 1-A, San Juan County, New Mexico.

Tested By:

K. C. McBride

Location Se	c. 34 T. 31 R. 11 1850'S, 1650'W
Pictured Cliffs SI Shut-Jo Pressure Mesa Verde SI	PC 674 PSIG 14 PT 1057 psig (Shut-in
0.750" Chake Valumegr	4210 MCF/D = 14.7 psia and 60° F. for 0.6 avity gas. Flow through tubing for 3 hours.
Calculated 3 Hour Absolute Open Flow	5991 MCF/D
Working Pressure On Calculated	643 Psig
Producing Farmation	Mesa Verde
Stimulation Method	Sand Water Frac
Total Depth	4670 - c/o - 4610
Field	Blanco
H ₂ S	Sweet to lead acetate.

Ending SIPC (P.C) - 677 psig

cc: D. H. Tucker ******* W. T. Hollis

H. H. Lines Bill Parrish Dean Rittmann Lewis D. Lalloway.

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W. M. Rodgers

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Drilling Department

B. D. Adams

Roland Hamblin

Jack Furvis

W. V. Holik

C. C. Kennedy

(6) E. J. Coel, Jr.

A. J. Dudenhoeffer

File

Florida, 4-14 (1991) - 418

EL PASO NATURAL GAS COMPANY GAS WELL TEST

Mr. E. E. Alsup To:

March 29, 1957 Date:

From: Gas Engineering Department

Place: Farmington, New Mexico

DUAL COMPLETION

Subject:

Test data on the El Paso Natural Gas Company Well, TURNER # 1-A, San Juan County, New Mexico.

K. C. McBride. Witnessed By: A. R. Kendrick (New Mexico Oil Tested By: Conservation Commission) Location Sec. 34 т. 31 R. 11 1850'S. 1650'W Pictured Cliff SIPC 655 SIPT 656 SIPT 1025 psig gravity gas. Flow through casing for 3 hours. MCF/D Working Pressure On tubing = 168 Producing Fermation..... Pictured Cliffs Stimulation Method..... Sand Water Frac Field Undesignated H2S Sweet to lead acetate.

Ending SIPT (MV) - 1031

cc: D. H. Tocker *** W. f. Hallis

H. H. Lines Bill Parrish Dean Rittmann

*** W. M. Rodgers

Drilling Department

B. D. Adams

Roland Hamblin

Jack Parvis

W. V. Halik

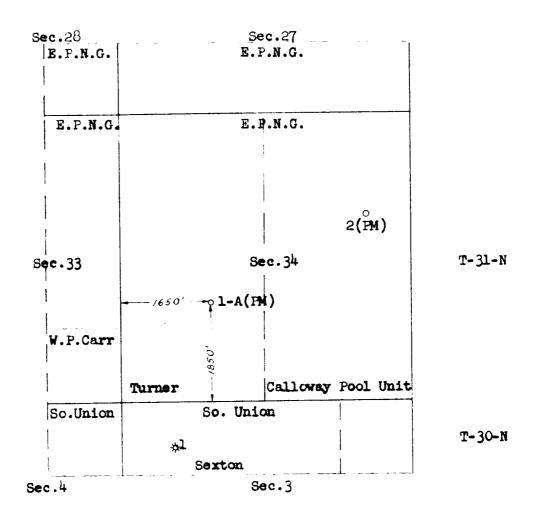
C. C. Kennedy

E. J. Cool, Jr. (6)

A. J. Dudenhoeffer

File

PLAT SHOWING LOCATION OF DUAL COMPLETED EL PASO NATURAL GAS TURNER NO. 1-A (PM) AND OFFSET ACREAGE



R-11-W

EL	PASO NATURAL GA	
SCALE	DATE	No.
DRAWNEY	CHECKED BY	1

FORM 7-182 (10-56)