April 3, 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 for a well dually completed in the Blanco Mesa Verde Pool and the Aztec Pictured Cliffs Pool. The El Paso Natural Gas Company Daum No. 4 (PM) is located 1090 feet from the North line and 2240 feet from the East line, Section 32, Township 28 North, Range 9 West, N.M.P.M., San Juan County, New Mexico.

This well has been completed in the Point Lookout member of the Mesa Verde formation and the Pictured Cliffs formation. Completion has been accomplished in the following manner:

- 1. 10-3/4" surface casing set at 175' with 125 sacks of cement.
- 2. 7" intermediate casing set at 3954' using multi-stage cementing procedure, 150 sacks of cement at the base of the casing and 100 sacks of cement across the Pictured Cliffs formation.
- 3. 5-1/2" liner set from 3889' to 4673' with 60 sacks of cement.
- 4. The casing and liner were tested for leaks before perforating.
- 5. The Point Lookout section was perforated in four intervals and water-sand fraced through the 5-1/2" liner.
- 6. The Pictured Cliffs formation was perforated in two intervals and water-sand fraced through the 7" casing with a temporary bridge plug isolating the perforations from the Point Lookout section.

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- 7. 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.
- 8. The Pictured Cliffs formation will be produced through the 7" casing. A syphon string consisting of 1-1/4" line pipe was run to a point opposite the Pictured Cliffs formation.
- 9. If 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.
- 10. Initial Potential tests have been run and commercial production has been found at 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.

The offset operator of this dual completion has been notified and I am enclosing a copy of the letter waiving any objection to it. Also enclosed are:

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

It is intended to dedicate the E/2 of Section 32 to the Mesa Verde formation and the NE/4 of Section 32 to the Pictured Cliffs formation.

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

Yours 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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EL PASO NATURAL GAS COMPANY - - GAS WELL TEST

To: Mr. E. E. Alsup

Date: February 20, 1957

From: Gas Engineering Department

Place: Farmington, New Mexico

DUAL COMPLETION

Subject:

C. C. Kennedy
E. J. Coel, Jr. (6)
A. J. Dudenhoeffer

File

Test data on the El Paso Natural Gas Company Well, DAUM # μ , San Juan County, New Mexico.

DR	ar " 4, bar	oum oums,	,,)1LU	•						
Tested By: K • (C. McBride.	Witnessed	By: Mr.	. A. :	R. Ken	dr i ck	, New	Mexic	o Oil	Conservat	
Location				. Sec.	32	Τ.	2 8	R.	9	1090°N,	22401E
Shut-In Pressure			•••••	SIPC SIPT	603 603	ps i g	; (Shute	7	d	lays)	
0.750" Chake Valume		• • • • • • • • • • • • • • • • • • • •		. 18	43 M y gas. Flo	ICF/D @ ow through	14.7 psio h casi l	and 60°	F. for 0.6 r 3 hours		
Calculated 3 Hour Absolute	Open Flow			. 19	22 "	ICF/D					
Working Pressure On tu	bing			. = 1	2 3 P	sig					
Producing Formation				. P i	ctured	Clif	f			/	
Stimulation Method				. Sa	nd Wat	er Fr	ac				
Total Depth				. 46	75 - P	acker	@ 39	62			
Field			· · · · · · · · · · · · · · · · · · ·	. Azt	ec						
H ₂ S				. Swe	et ,	o lead ac	etate.				
	SIPT (M.V.									÷	
cc. D. H. Tucker 海廷 斯洛南省河南 W. T. Hallis 攻弦 西尔南河流山 谷	H. H. Line Bill Parri Dean Rittm	sh			Z	ewi L. D	. Gal	La loway	llou	Jargo	
W. M. Rodgers Ma弥描光光光 Drilling Department B. D. Adams Roland Hamblin Jack Purvis W. V. Holik											

EL PASO NATURAL GAS COMPANY GAS WELL TEST

Mr. E. E. Alsup To:

Date:

February 27, 1957

Gas Engineering Department

Place: Farmington, New Mexico

DUAL COMPLETION

Subject:

Test data on the El Paso Natural Gas Company Well, DAUM # 4, San Juan County, New Mexico.

Tasted By:

K. C. McBride

L ocation	ec.	32	т.	28	R.	9	, 1090°N,	2240 E
Shut-In Pressure	SIPC	634 1036	psig psig	; (Shut-in	1	14day	s)	
0.750" Choke Valumeg	470	2 MCF	√D @ 1 through	4.7 psic or tubing	nd 60° , fo	F. for 0.6 r 3 hours.		
Calculated 3 Hour Absolute Open Flow	7707	7 MCF	:/D					
Working Pressure On Calculated	716	Psig	3					
Producing Formation	Mesa	verde	•					
Stimulation Method	Sand	l Water	Fra	ac.				
Total Dept ^{1.}	4675	5 - c/e	o – 1	1 570				
Field	Blar	nco					•	
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ca: D. H. Tucker **法基础基础的**证据 H. H. Lines Bill Parrish Dean Rittmann

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W. M. Rodgers

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Drilling Department

B. D. Adams

Roland Hamblin

Jack Purvis

W. V. Holik

C. C. Kennedy

E. J. Cool, Jr. (6)

A. J. Dudenhoeffer

File

EL PASO NATURAL GAS COMPANY

P. 0. Box 997 Farmington, N.M.

February 28, 1957

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

> Re: Packer Leakage Test on the El Paso Natural Gas Company Well Daum # 4, NE 32-28-9, 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 3962. The Pictured Cliffs some was tested February 20, 1957 with the following results:

SIPC - 603 psig (shut-in 7 days) SIPT - 1006 psig

The casing was opened at 10:35 A.M. and flowed three hours through a 3/4" choke.

Time	Casing Choke Pressure Psig	Temp. of	Tubing Pressure Psig
10:35	603		1006
10:50	251		1005
11:05	208		1006
11:20	184		1006
11:35	167		1006
12:05	8للـ		1007
12:35	137		1 00 7
1:05	127		1007
1:35	12 0	6 2°	1007

The calculated choke volume was 1843 MCF/day. After the well was shut-in 7 days, the Mesa Verde zone was tested with the following results:

Pictured Cliff - SIPC 63h psig
Mesa Verde - SIPT 1036 psig (shut-in lh days)

OPEN FLOW TEST DATA

DUAL COMPLETION

DATE February 20, 1957

El Paso Natural Gas Company					Danum # 4	
1090'N, 2240'E, Sec. 32-28-9				County	San Juan	New Mexico
Pictured C	liffs				Aztec	
ar may see to	7"	Apr 1: Tant	3944	_	$1\frac{1}{4}$	2199
i i ji e e	2175		2217	Totalle	Packer at 3962 i	
Sand Water	Frac			The two En	rauge Lak og X	Flow inrough T, bing

en sanda hina	•750	14.1605	T.D. 4675 5½" liner	at 4673
Professional Company of the Company	603 (PC)	615 7	603 (PC) 1006 (MV)	615
Park Stores & F	120	1 32	More of Prossure P. PS 123	135
Terri de la	62	•85	1.012	

14.1605 x 132 x .9981 x .9759 x 1.012

1843

MCF D

1878.225
360,000

1922

1922

1922

1922

K. C. McBride

A. R. Kendrick, New Mexico Oil Conservation Commission

cc: E. J. Coel, Jr. (6)

Litalloway.

February 27, 1957

El Paso	Natural Gas Compa	any	Daum # 4	
1090'N,	2240'E, Sec. 32-2	28-9	San Juan	New Mexico
Mesa Ver	·de		Blanco	
	7"	3944	2"	4560
	3,44	4552	4675 c/o - 45	
Mr. s.t	Sand Water I	Frac	TENNE CONTRACTOR	s develor to encode . X

 .7 50	14.1605	5½" liner at 4673;Fa	acker at 3962
 634 (PC)	7	1036	1048
327	349	Calculated	728
65	•75	1.040	.710

14.1605 x 349 x .9952 x .9193 x 1.040

4702

MOF D

1,058,304 (1.9325) $^{.75}$ x 4702 = 1.639 x 4702 568,320

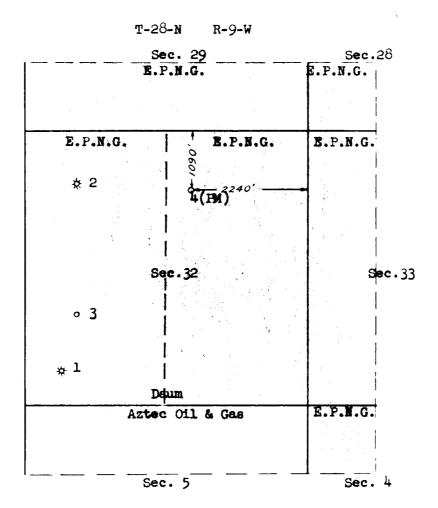
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Control of the Control of the Artificial Report

K. C. McBride

cc: E. J. Coel, Jr. (6)

PLAT SHOWING LOCATION OF DUAL COMPLETED EL PASO NATURAL GAS DAUM #4 (PM) AND OFFSET ACREAGE



EL PASO NATURAL GAS COMPANY						
SCALE	DATE	No.				
DRAWN BY	CHECKED BY					

STATE	OF :	NEW 1	MEXICO)
)
COUNTY	r 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 February 13, 1957, I was called to the location of the El Paso Natural Gas Company

Daum #4 (PM) Well located in the NE/4 of Section 32, Township 28 North,

Range 9 West, N.M.P.M. for the purpose of installing a production packer.

Under my direct supervision a Baker Model "EGJ" production packer was set

at 3962 feet. The production packer was properly set in accordance with

the usual practices and customs of the industry.

Mach M. Mahaffey

Subscribed and sworn to before me, a Notary Public in and for San Juan County, New Mexico, the 19th day of February, 1957.

Machelle San Juan County.

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CY COLDINGSION EXPIRES FEE. 24, 1960

SCHEMATIC DIAGRAM OF DUAL COMPLETION EPNG DAUM NO. 4 (NE Section 32-29N-9W)

Measurement reference point is 9' above top of tubing hanger

