Letter to Sando Le

El Paso Natural Gas Company

El Paso, Texas August 28, 1958

ALLING 1958

POST OFFICE BOX 997
FARMINGTON, NEW MEXICO

Mr. A. L. Porter Secretary and Director Oil Conservation Commission Box 871 Santa Fe, New Mexico



This is a request for administrative approval for a well dually completed in the Wildcat Chacra Pool and South Blanco Pictured Cliffs Pool. The El Paso Matural Gas Company Johnston State No. 3 (CF) is located 1273 feet from the North line and 990 feet from the East line of Section 32, Township 26 North, Range 6 West, M.M.P.M., Rio Arriba County, New Mexico.

This well has been completed in the Chacra formation and in the Pictured Cliffs formation. Completion has been accomplished in the following manner:

- 10 3/4" surface casing set at 173 feet with 120 sacks of cement circulated to the surface.
- 2. 7 5/8" intermediate casing set at 3029 feet with 200 sacks of cement. Top of the cement is at 1520 feet, which is above the top of the Pictured Cliffs at 2843 feet.
- 3. 5 1/2" liner set from 2963 feet to 5291 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 four intervals and fractured with water and sand, and subsequently squeezed off with 100 sacks of cement.
- The Chacra formation was perforated in two intervals and fractured with water and sand.
- 7. The Pictured Cliffs formation was perforated in one interval 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 3023 feet with tubing perforations set opposite the Chacra perforations. 1 1/4" EUE tubing siphon string was run with tubing perforations set opposite the Pictured Cliffs perforations. The Chacra 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 somes. A packer leakage test has been run and witnessed by a member of the Astec office of the Oil Conservation Commission. This test shows no communication in the well bore between the two producing formations.

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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 operators offsetting the acreage dedicated to this well have waived all objections to El Paso Natural Gas Company's intention to dually complete the well. Enclosed are copies of said 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 electric and radioactive logs will be sent to you under separate cover.

It is intended to dedicate the NE/4 of Section 32, Township 26 North, Range 6 West to the Chacra formation and the NE/4 of Section 32, Township 26 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,

OR'G'NAL SIGNED E.S. OBERLY

E. S. Oberly, Division retroleum Engineer

ESO:dgb

cc: NMOCC (Emery Arnold) (2)
Sam Smith
USGS (Phil MCGrath)

SEP A 1958

STATE OF NEW MEXICO
COUNTY OF SAN JUAN

I, J. E. Rowland, being first duly sworn upon my oath depose and say as follows:

I am an employee of Baker Oil Tools, Inc., and that on July 6, 1958, I was called to the location of the El Paso Natural Gas Company Johnston State No. 3 (CP) Well located in the NENE/4 of Section 32, Township 26 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 3023 feet in accordance with the usual practices and customs of the industry.

Subscribed and sworn to before me, a Notary Public in and for San Juan County, New Mexico, the 29th day of August, 1958.

Motary Public in and for San Juan County

My commission expires August 26, 1959.

My commission expires Petronicy 24, 1960.



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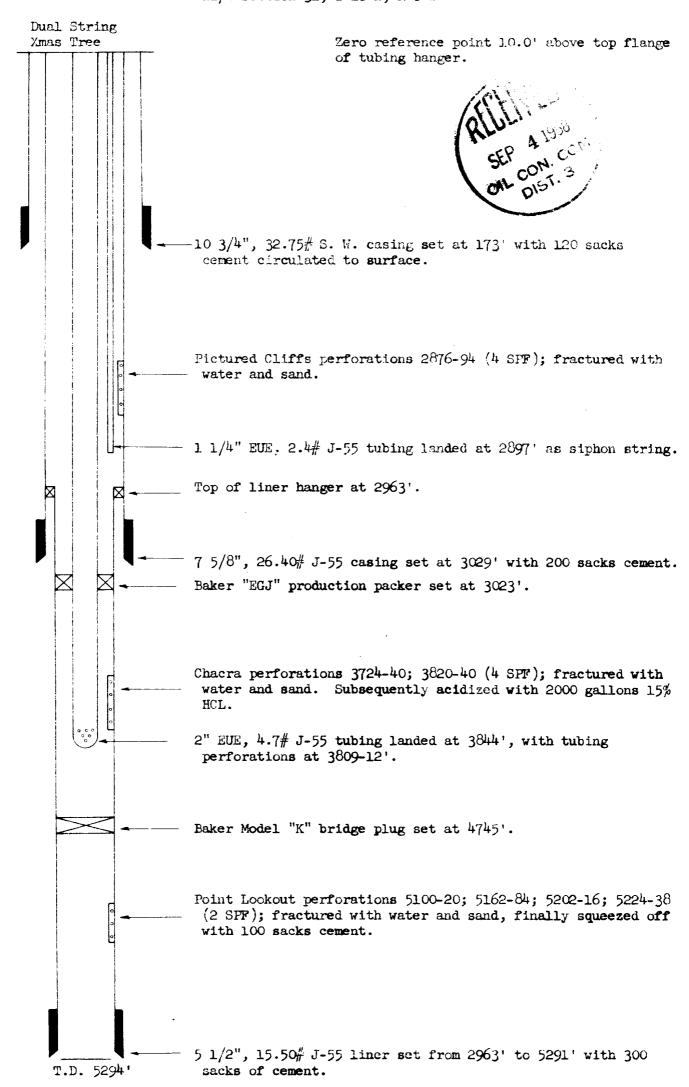
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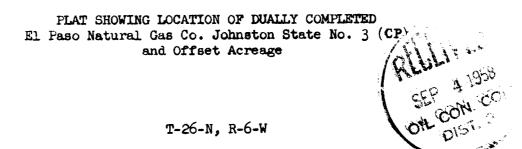
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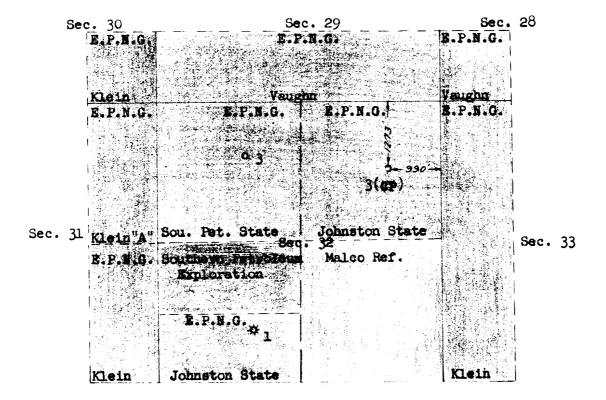
ullet . The section of the section of the section of the section ullet . The section ullet

My commission expires August 26, 1869.

SCHEMATIC DIAGRAM OF DUAL COMPLETION El Paso Natural Cas Co. Johnston State No. 3 (CP) NE/4 Section 32, T-26-N, R-6-W







SCALE

EL PASO NATURAL GAS COMPANY EL PASO, TEXAS DATE No. CHECKED BY DRAWN BY

FORM 7-132 (10-56)

EL PASO NATURAL GAS COMPANY

F. O. Box 997 Farmington, New Mexico



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

> Re: Packer Leakage Test on the El Paso Natural Cas Company Well, Johnston State No. 3 (C-P). 1273N, 990E; 32-26-6, Rio Arriba, New Mex. (Name - Location - Company)

Dear Mr. Arnold:

The su	bject w	ell was	dually co	mpleted	in the	Pictured	Cliffs	and	Chacra
zones and a	. packer	was set	tat 30	23 feet.	The	Chacra		cone was to	ested
through a 3	/4" chol	ke for t	three hour	's Augu	st 1, 195	8 with	the foll	lowing date	a obtained:
	PC	SIPC _	827	psig;	Shut-in	26	_ days		
	₽ ¢	SIVT _	828	paig;					
	ChXX.	sipt _	905	_ psig;	Shut-in	26	days		
Time	(CH)	Flowing	g Pressure	<u>.</u>			(cn) 1	orking	•
linutea		Tubing	Psig	(PC)	SIP (d	Psig	Press	re, Psig	Temp ° F
15 30 45 60			286		828				58
30			261		828				5 9
45			247		829				5 9 60
60			235		829				
180			194		829		Cal	c. 352	64
2780	MCF/D.							ith an AOF	of • 3/4" choke
for 3 hours	with t	he foll	owing date	a o bt aine	d:				
	PC	SIPC _	839	paig; Sh	ut-in	40	la ys		
	PC	SIIT _	839	psig;					
	Ch XX	SIPT	919	psig; Sh	ut-in	14 (iays		

Time Minutes	(PC) Flowing Pressure Casing Psig	(C) SIP (T) Psig	(PC) Working Pressure, Psig	Temp ° F
0 1 5 30 45 60 180	317 287 271 264 242	919 918 919 919 919	249	54 58 58 58 58
The ch of	oke volume for the <u>Picture</u>	i Cliffs test was	3096 MCF/D with	n an AOF

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

Very truly yours,

H. L. Kendrick

Gas Engineer

HLK/nb

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

File

OPEN FLOW TEST DATA

DUAL COMPLETION

FORM 2 - TE EFF

DATE August 1, 1958

L. D. Galloway

Oters of El Paso Natural Gas		Johnston State No	and the second of the second o	
1273N, 990E; 32-26-6	The second secon	County State Rio Arriba New Mexico		
Formation Chacra		Undesignated.		
33311g 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	r 2963 - 52 91	Tubing: Diameter 2"	Set At: "ect 3834	
Pay Zone: From 3724 Stimulation Method Acidized W/HCL	3840	Total Dept!. 5294 c/o 3930 How Through Casing	Shut-in 7/6/58 Flow Through Tubing X	
Without when				
.75	12.365			
827 (PC) 8		90 5 (c)	PSIG 12 - PSIA 917	
Possure Para Para	206	Working Fressure: Pw. Calc. Fpv (from Tables:	964	
64	.85	1.023	.700	
PF's FLOW - 4 of Q = = = = = = = = = = = = = = = = = =	n m	870.05 x 2403 = I.1570		
84088 70839	9 _) ⁿ 1.1	870 ⁻⁸⁵ x 2403 = 1.1570 :	x 2403	
Aof 278 0	WOF D			
Frank M. Clar	k			
STANSAGET SY Fred Cook (NM	occ)	0 -		
hecked By M. W. Rischar	d	Jan 4	Lallowall	

OPEN FLOW TEST DATA

DUAL COMPLETION

DATE August 15, 1958

)perator		Lease			
El Paso Natural Ge	. \$		Johnston State No. 3 (P)		
ocation		County		State New Mexico	
1273N, 990E; 32-26	5-6		Rio Arriba		
Formation		Pool	The second second assessment the second control of the second control of		
Pictured Cliffs		South Blanco P.C.			
Casing: Diameter	Set At: Feet	Tubing: Diar		Set At; Feet	
7-5/8	3017		1 -1/4"	2887	
ay Zone: From	To	Total Deptin			
2876	2894	5 294	c/o 3930	Shut-in 7/6/58	
Stimu at on Metrica		Flow Throug	ih Casing	Flow Through Tubing	
Azidized w/HCl			X		

Choko Size, Inches			Choke Constar	••• C	T		
	3/4			12.365			
Shut-Ir Pressure, Cas	839		- 12 - PSIA 851	Days Shut-In 40 (PC)	Shut-In Pressure, Tubing	PSIG 839 (PC)	- 12 PSIA) 851
Flowing Pressure: P	242	PSIG	- 12 - PSIA	254	Working Pressure: Pw 249	PSIG	- 12 = PSIA 261
Temperature: T	62	ţ.	n ·	.85	Fpv (From Tables) 1.024		Gravity • 647

Initial SIPT (C) 919 paig Final SIPT (C) 919 paig

Packer at 3023 2" at 3834

CHOKE FOLUME Q' C x P, x F, x Fg x Fpx

 $c = 12.365 \times 254 \times .9981 \times .9645 \times 1.024$ 3096

MCF/D

724201 (3096) = 1.0876 (3096) 656080

3367 MCF D

M. W. Rischard

WUTNESSET 4. Fred Cook

L. D. Galloway ey G. L.N