# El Paso Natural Gas Company

El Paso, Texas June 10, 1958

ADDRESS REPLY TO-POST OFFICE 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 a request for administrative approval for a well dually completed in the Blanco Mesa Verde Pool and in the South Blanco Pictured Cliffs Pool. The El Paso Natural Gas Company Bolack No. 11-C (PM) is located 1800 feet from the South line and 1550 feet from the West line of Section 28, Township 27 North, Range 8 West, N.M.P.M., San Juan County, New Mexico.

( )

This well has been completed in the Point Lookout section of the Mesa Verde formation and in the Fictured 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 4396 feet and cemented with a two stage cementing procedure; 100 sacks at the base of the casing and 150 sacks across the Pictured Cliffs formation.
- 3. 5 1/2" liner set from 4301 feet to 4697 feet with 150 sacks of cement.
- 4. The casing and liner were tested for leaks before perforating.
- 5. The Foint Lookout section was perforated in seven intervals and fractured with water and sand.
- 6. The Pictured Cliffs formation was perforated in one interval and fractured with water and sand.
- 7. All perforations were cleaned out after treatment and completion was accomplished by setting a Baker Model "EGJ" production packer on 2" EUE tubing at 4343 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 this well have been notified of El Paso Natural Gas Company's intentions to dually complete this well and in turn have waived any objections to this plan. I am sending copies of the letters of approval received from the offset operators. 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.

It is intended to dedicate the W/2 of Section 28, Township 27 North, Range 8 West to the Mesa Verde formation and the SW/4 of Section 28, Township 27 North, Range 8 West to the Fictured 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 Petroleum Engineer

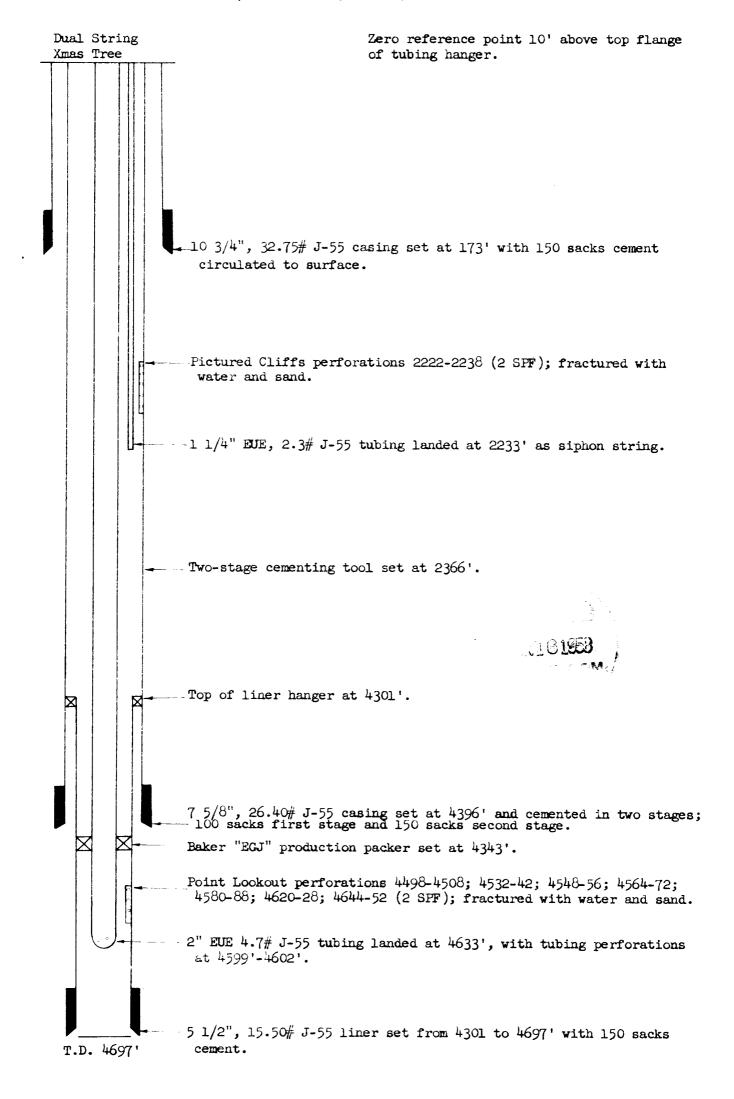
ESO:dgb Encl.

cc: NMOCC (Emery Arnold)

Sam Smith

USGS (Phil McGrath)

JUE: 6 1958 CIL CON. COM. DIST. 3



STATE OF HEW MEATO.

COUNTY OF BAH SUAN

I, rack M. Mahaffe, being first duly sworn upon my oath depose and say as follows:

I am an employee of Baser (il Tools, Inc., and that on February 22, 1990, I was called to the location of the El raso Natural Gas Company Bolack in 11-0 (im) Well located in the NESW/4 of Section 20, Township 27 North, mange a best, N.M.F.M., for advisory service in connection with installation of a production packer. In my presence, a baker Model EGJ from the recention maker was set in this well at 4343 feet in accordance with the usual practices and customs of the industry.

Mack M. Makaffry

Juan Clast; new Mexico, the 4th cap of June, 1959.

Notary Public in and for ban Juan County, New Mexico

My commission expires February 24, 1960.

#### EL PASO NATURAL GAS COMPANY

P. O. Box 997 Farmington, New Mexico

April 2, 1958

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

> Re: Packer Leakage Test on the El Paso Natural Gas Company Well, Bolack No. 11-C (PM), 1800S, 1550W; 28-27-8, San Juan County, New Mexico.

#### Dear Mr. Arnold:

The subject well was dually completed in the Pictured Cliffs and Mesa Verde zones and a packer was set at 4343 feet. The Pictured Cliffs zone was tested through a 3/4" choke for three hours March 10, 1958, with the following data obtained:

PC SIPC 808 psig; shut-in 15 days MV SIPT 1067 psig; shut-in 15 days

Time Minutes	PC Flowing Pressure Casing Psig	MV SIPT Psig	PC Working Pressure, Psig	Temp O F
0 15 30 45 60	217 148 88	1067 1065 1067 1070 1071		53 54 56 57
180	55	1075	<b>Tbg.</b> 58	57

The choke volume for the Pictured Cliffs was 810 MCF/D with an AOF of 815 MCF/D.

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

PC SIPC 827 psig; shut-in 18 days MV SIPT 1109 psig; shut-in 33 days



## Bolack No. 11-C (PM) Page Two

Time Minutes	MV Flowing Pressure Tubing Psig	PC SIPC Psig	MV Working Pressure, Psig	Temp ° F
0	-	827		_
15	262	831		60
30	253	831		62
45	240	831		62
60	211	831		63
180	170	832	Calc. 329	64

The choke volume for the Mesa Verde test was 2112 MCF/D with an AOF of 2271 MCF/D.

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

S. V. Roberts

SVR/nb

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

File



# OPEN FLOW TEST DATA

DUAL	COMPLETION
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DATE March 28, 1958

Operator		Lease	
El Paso Natural Gas Co	mna n <b>v</b>	Bolack No. 11-C (	M)
Location		County	State
1800S, 1550W; 28-27-8		San Juan	New Mexico
Formation		Pool	
Mesa Verde		Blanco	
1	Set At: Feet	Tubing: Diameter 211	Set At: Feet
7-5/8" Pay Zone: From	4 <b>3</b> 86	2" Total Depth:	4623
1	4652	4697 c/o 4672	Shut-in 2-23-58
St mulation Method	· · · · · · · · · · · · · · · · · · ·	Flow Through Casing	Flow Through Tubing
Sand Water Frac.		1	X
Chake Size, Inches	Choke Constant: C		
		E 1/0" 14mm h201	1,606
Shut-In Pressure, Casing, PSIG	- 12 FSIA Days Shut-In	Shut-in Pressure, Tubing	************************************
(PC) 827	839 33	(MV) 1109	1121
Flowing Pressure: P PSIG	- 12 = PSIA	Working Pressure: Pw	PSIG 12 = PSIA
170	182	(Calc	341
Temperature: T F		Fpv (From Tables	Gravity 0. 700
Initial SIPC (PC) 827		-1/4" at 2223	
CPEN FLOW Aof - Q = 2 Ps	) (182) (.9962) (.922) $ \begin{array}{c} P_{c} \\ \hline P_{c} \end{array} $ 256,641 140,360	25) (1.021) =	
S. V. Robert with asser av Bill Rischar			

L. D. Galloway Xalloway

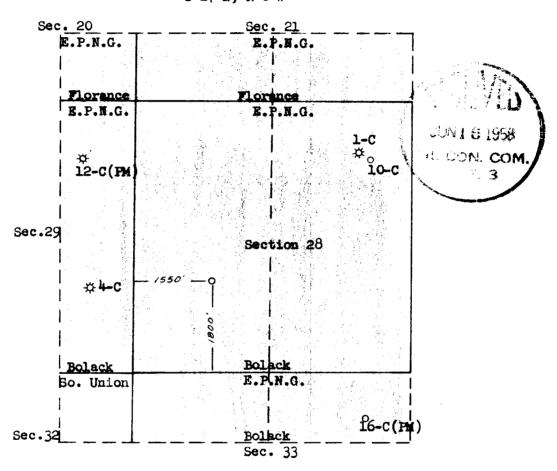
# OPEN FLOW TEST DATA

DUAL	COMPLETION			DATE	March 10,	1958
Coerator	·- · -			Lease		
El Pa	so Natural	Gas Company		Bolack No.	11-C (P)	
1800S	, 1550W; 2	8-27-8		County		State Nov. Marria
i ·				San Juan		New Mexico
Tasing Diames	red Cliffs	Set At; Fee	· · · · · · · · · · · · · · · · · ·	South Blance Tybing: Diameter	:0	Set Att Feet
7-5/8	<b>H</b>  m	· · · · • · · · · · · · · · · · · · · ·	4386	1-1/4" Total Depth:		2223
2222 Stimu at an Met			2238		72	Shut-In 2/23/58
1	Water Frac.			Flow Through Casing  X		Flow Through Tubing
	-					
Chake Size, inc	rine's	Thinke Cons	tanti C			
.750 Shure Press ,	a .95 .,	- 13 PSIA	12.365 Shuttin	<b>5-1/2 line</b> Shut-In Pressure, Tubing	r 4301-4	696
	808	820	15	Working Pressure: Pw	808	
Flowing Flace.	55	· Ib · 12 PSIA	67	Working Pressure: Pw	_	
Temperature: T		1		Fpv (From Tables,		Gravit, 70
Initia	al STET (MV)	1067 PSI	. •02	1,007	(RR Comm	) .640
Final		1075 PSIC		Pkr at 4343		
	Ao: 0	672400 667500	)n (1.0	682) (1.007)		MCF D  OON COM.  3
TROCKESTIONS		perts				
Checked By:		ndrick		L.	(r)	1
V				Jewi	した。 人	Jalloway.

L. D. Galloway

### PLAT SHOWING LOCATION OF DUALLY COMPLETED El Paso Natural Gas Co. Bolack No. 11-C (PM) and Offset Acreage

T-27-N, R-8-W



EL P	ASO NATURAL GAS EL PASO, TEXAS	
SCALE	DATE	No.
DRAWN BY	CHECKED BY	110:

FORM 7-132 (10-56)

For	<b>Form 9-331 a</b> (Feb. 1951)			

#### (SUBMIT IN TRIPLICATE)

# UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

Land Office Santa Fe	
Lease No. 471. 079232	
Unit Bolack	

# SUNDRY NOTICES AND REPORTS ON WELLS

	MOTICES AN	D KLI OKIS	ON WELLS	
NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF W	ATER SHUT-OFF	x
NOTICE OF INTENTION TO CHANGE F	LANS	SUBSEQUENT REPORT OF SI	HOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WAT	ER SHUT-OFF	SUBSEQUENT REPORT OF A	LTERING CASING	
NOTICE OF INTENTION TO RE-DRILL		SUBSEQUENT REPORT OF R	E-DRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OF		11	BANDONMENT	
NOTICE OF INTENTION TO PULL OR		SUPPLEMENTARY WELL HIS	TORY	
NOTICE OF INTENTION TO ABANDON	WELL			
(INDICA	TE ABOVE BY CHECK MARK NAT	URE OF REPORT, NOTICE, OR C	THER DATA)	<u></u>
		Febru:	ary 11,	, 1958
Well No. 11-C is locat	·	- ,	(**)	c. <u>28</u>
SW/4-28 (% Sec. and Sec. No.)	27. 8 (Twp.) (Rar	W N M M	)	
Blanco & South Planco	County or Su	n pdivision)	New Mexico (State or Territory)	
Pl 1	0 1 1 1	· 100= -		
The elevation of the derrick	noor above sea level	is <u>0473</u> It.		
	DETAILS	OF WORK		
State names of and expected depths to	objective sands; show sizes, w	eights, and lengths of propose	d casings: indicate mudding	iobs. coment-
	ing points, and all other	important proposed work)		,000,001110111
On Feb. 10, 1958,	Total Depth 4397'	•		
• • •	en 106 joints 7		. Casing (LLOL &	E) cot
	at 4396', with 150			
	25" Mocele and L			
	2nd stage 150 sac	cs Pozmix with La	Gel.	o cement
1	leld 1000#/30 mim	ites.		417
•	Top of cement by	temperature surve	y at 1450' / 👸	
			/ ***	ULI E
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			1000	1 1000
			Late C	14 1958 ON. COI
I understand that this plan of work	must receive approval in writi	ng by the Geological Survey b	efore operations may be com	Ebeonem
Company El Paso Nata	ral Gas Company			· Allendaria de la companya del la companya de la c
ddress 30x 997				
Farmington,	New Mexico	By Origina	Signed D. C. Joh	ns'on
		Title Petro	leum Engineer	
			GP	0 9 18 50 7