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 Extension and in the South Blanco Pictured Cliffs Pool. The El Paso Natural Gas Company Schwerdtfeger No. 11-A (PM) is located 1700 feet from the North line and 1601 feet from the East line of Section 6, 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 Pictured Cliffs formation. Completion has been accomplished in the Pollowing 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 4799 feet and cemented with a two stags cementing procedure; 250 sacks at the base of the casing and 100 sacks across the Pictured Cliffs formation.
- 3. 5 1/2" liner set from 4724 feet to 5141 feet with 100 sacks of cement.
- 4. The casing and liner were tested for leaks before perforating.
- 7. The Point Lookout section was perforated in six intervals and fractured with water and sand.
- 6. The Pictured 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 "EGJ" production packer on 2" EUL tubing at 4740 feet with tubing perforations set opposite the Point Lookout perforations. 1 1/4" EUL 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 Aztee 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.

Since El Paso Natural Gas Company holds all leases immediately adjacent to the drilling block, no other operators have been notified of intentions to dually complete this well. 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 dpeth shown.
- (c) Two copies of the packer leakage test as observed by a member of the Gil Conservation Commission.
- (d) Two copies of the initial potential test showing commercial production from the two formations.

It is intended to dedicate the E/2 of Section 6, Township 27 North, Range 8 West to the Mesa Verde formation and the NE/4 of Section 6, Township 27 North, Range 8 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,

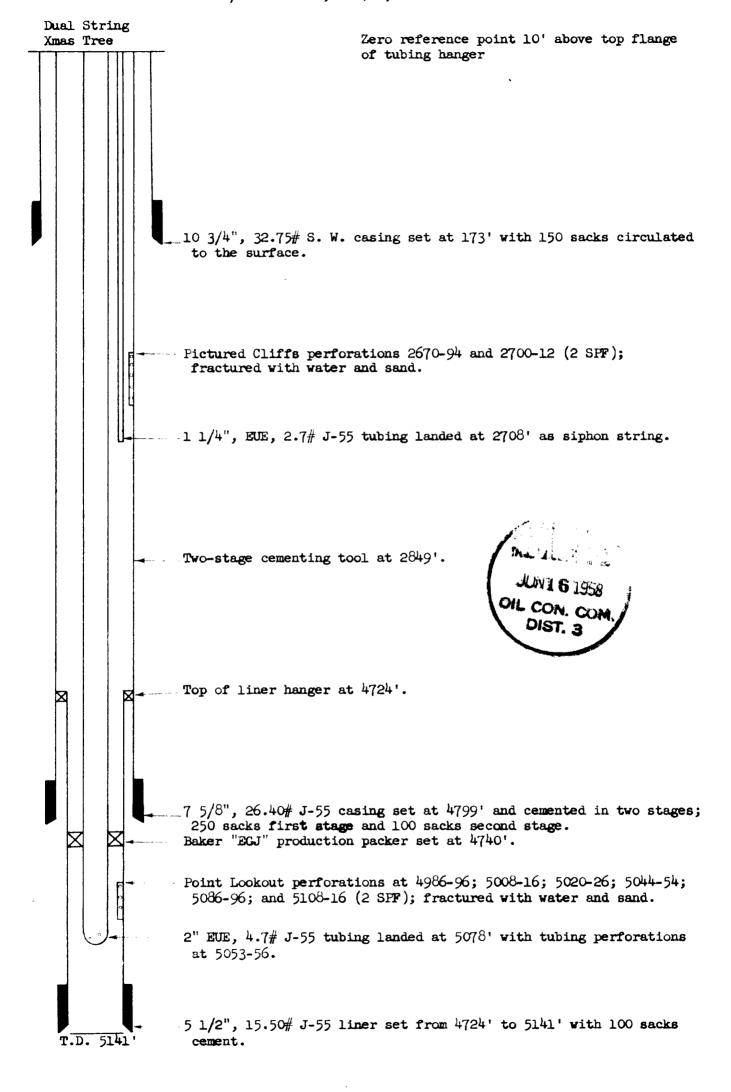
ORIGINAL SIGNED E.S. OBERLY E.S. Oberly, Division Petroleum Engineer

ESO:dgb Encl.

cc: NMOCC (Emery Arnold) Sam Smith
USGS (Phil McGrath)



SCHEMATIC DIAGRAM OF DUAL COMPLETION El Paso Natural Gas Co. Schwerdtfeger No. 11-A (PM) NE/4 Section 6, T-27-N, R-8-W



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, 1958, I was called to the location of the El Paso Natural Gas Company Schwerdtfeger No. 11-A (PM) Well located in the SWNE/4 of Section 6, Township 27 North, Range 8 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 4740 feet in accordance with the usual practices and customs of the industry.

Mark M. Mahaffry

Subscribed and sworn to before me, a Notary Public in and for Sun Juan County, New Mexico, the 4th day of June, 1958.

EL PASO NATURAL GAS COMPANY

P. O. Box 997
Formington, New Mexico

April 3, 1958

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

> Re: Packer Leakage Test on the El Paso Natural Gas Company Well, Schwerdtfeger No. 11-A (PM), 1710N, 1001E, 6-27-8, 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 4740 feet. The Mesa Verde zone was tested through a 3/4" choke for three hours March 10, 1958 with the following data obtained:

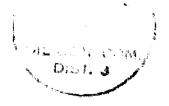
PC SIPC 807 psig; shut-in 24 days MV SIPT 1024 psig; shut-in 24 days

Time Minutes	MV Flowing Pressure Tubing Psig	PC SIPC Psig	MV Working Pressure, Psig	Temp O F
15	435	808		51
30	403	809		5 3
45	383	809		5 5
60	372	809		5 9
120	343	809		62
180	3 28	809	(Calc) 653	63

The choke volume for the Mesa Verde was 4022 MCF/D with an AOF of 5989 MCF/D.

The Pictured Cliffs zone was tested April 1, 1958 with a 3/4" choke for 3 hours with the following data obtained:

PC SIPC 818 psig; shut-in 45 days MV SIPT 1023 psig; shut-in 21 days



EL PASO NATURAL GAS COMPANY

Schwerdtfeger No. 11-A (PM) Page Two

Time Minutes	PC Flowing Pressure Casing Psig	MV SIPT Psig	PC Tbg. Working Pressure, Psig	Temp ° F
15	587	1023		5 9
30	555	1023	565	60
45	518	1024		62
60	481	1025	491	63
120	3 88	1025	397	66
180	351	1026	364	66

The choke volume for the Pictured Cliffs test was 4499 MCF/D with an AOF of 5465 MCF/D.

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

Very truly yours,

R. R. Davis

R. R. Davis

RRD/nb

cc: W. M. Rodgers

E. S. Oberly (6)

File

JUN1 6 1958 OIL CON. COM. DIST. 3

OPEN FLOW TEST DATA

DATE March 10, 1958 DUAL COMPLETION Schwerdtfeger No. 11A (M) El Paso Natural Cas Company New Mexico San Juan 1710N, 1601E, 6-27-8 Blanco Mesa Verde Tubing: Drameter Casing: Diameter 4787 5074 7-5/8". Total Depth: Shut-In 2-14-58 5016' 49861 Flow Through Casing Sand Water Frac

		Choke Censta	nt: C				
Chake Size, Inches	75 0	9 - 1 1	· · -				
Shut-in Pressure, Cas				Shut-In Pressure, Tubin	g FSIG	17 - PSIA 10 3	86
Flowing Prescure: P		(PC) 81 PS(3 12 PS(A	19. 24	1024 (MV) Working Pressure: Pw	PS.G		
	328	e Live important es	340	Fpv (From Tables)	(Calc.)	Gravity	ַנַּייייייייייייייייייייייייייייייייייי
Temperature: T	63		.750		1.040	<u> </u>	707

Final SIPC (PC) = 809 PSIG, 1-1/4" at 2698.

CHOKE VOLUME 1Q C x P. x F. x Fg x Fp.

Q 12.365 (340) (.9971) (.9225) (1.040) 4,022

,022. MCF

OPEN FLOW Acf Q
$$\begin{pmatrix} & & & \\ & \frac{2}{2} & \frac{2}{2} & \\ & P_c - P_w \end{pmatrix}$$

E HEM 2 HOTE FACE

$$\begin{pmatrix}
1073296 \\
631071
\end{pmatrix}$$
(1.7007).75 (4022) = (1.4890) (4022)

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TARTED EN R. R. Davis

Lewis D' Halloway.

EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DUAL COMPLETION

DATE April 1, 1958

Operator El Paso Natural	Gas		Schwerdtfeger No. 11-A (P)			
Location			County			
1710N, 1601E;	6-27-8		San Juan New Mexic			
Formation	1 T		Pool			
Pictured Cliffs						
Casing: Diameter	Set	At: Feet	Tubing: Diameter	Set At: Feet		
7-	5/8"	4787	1-1/4"	2698		
Pay Zone: From	То		Total Depth:			
26	70	2712	5140	Shut-in 2-14-58		
Stimulation Method	•		Flow Through Casing	Flow Through Tubing		
Sand Water Frac			X			

Chale Size, Inches	750	' '	12.36		5-1/2" Liner 47	24' - 51	41'
Shut-In Pressure, Co		(PC)	- 12 = PSIA 830	Days Shut-In	Shut-in Pressure, Tubing 819 (PC)	PSIG	- 12 PSIA 831
Flowing Pressure: P	351	PSIG	- 12 PSIA	363	Working Pressure: Pw 36	PSIG 4	- 12 = PSIA 37 6
Temperature: T	66	F		50	Fpv (From Tables) 1.033		.6 34

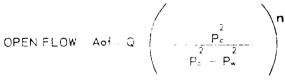
Initial SIPT (MV) = 1023 Psig, Final SIPT (MV) = 1026 Psig

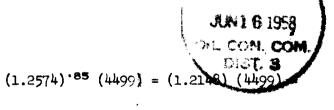
Packer at 4740'

CHOKE VOLUME Q - C x P, x F, x Fg x Fpv

C :	12.365	(363)	(.9943)	(.9759)	(1.033)

____MCF 'D





Aof 5465 MCF D

R. R. Davis and Malcolm Rischard

WITNESSED BY _ _ __