El Paso Natural Gas Company

El Paso, Texas

July 15, 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 South Blanco Pictured Cliffs Pool. The El Paso Natural Gas Company Cuccia State No. 3 (PM) is located 890 feet from the South line and 1090 feet from the West line of Section 22, 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 following manner:

1. 10 3/4" surface casing set at 175 feet with 150 sacks of cement circulated to the surface.
2. 7 5/8" intermediate casing set at 2353 feet with 200 sacks of cement. Top of the cement is at 1025 feet, which is above the top of the Pictured Cliffs at 2157 feet.
3. 5 1/2" liner set from 2297 feet to 4632 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 three 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 2368 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.

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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 offset operator to the acreage dedicated to the well has furnished El Paso Natural Gas Co. a waiver of any objections to dual completion operations. Enclosed is a copy of the waiver. 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 22, Township 27 North, Range 8 West to the Mesa Verde formation and the SW/4 of Section 22, 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.

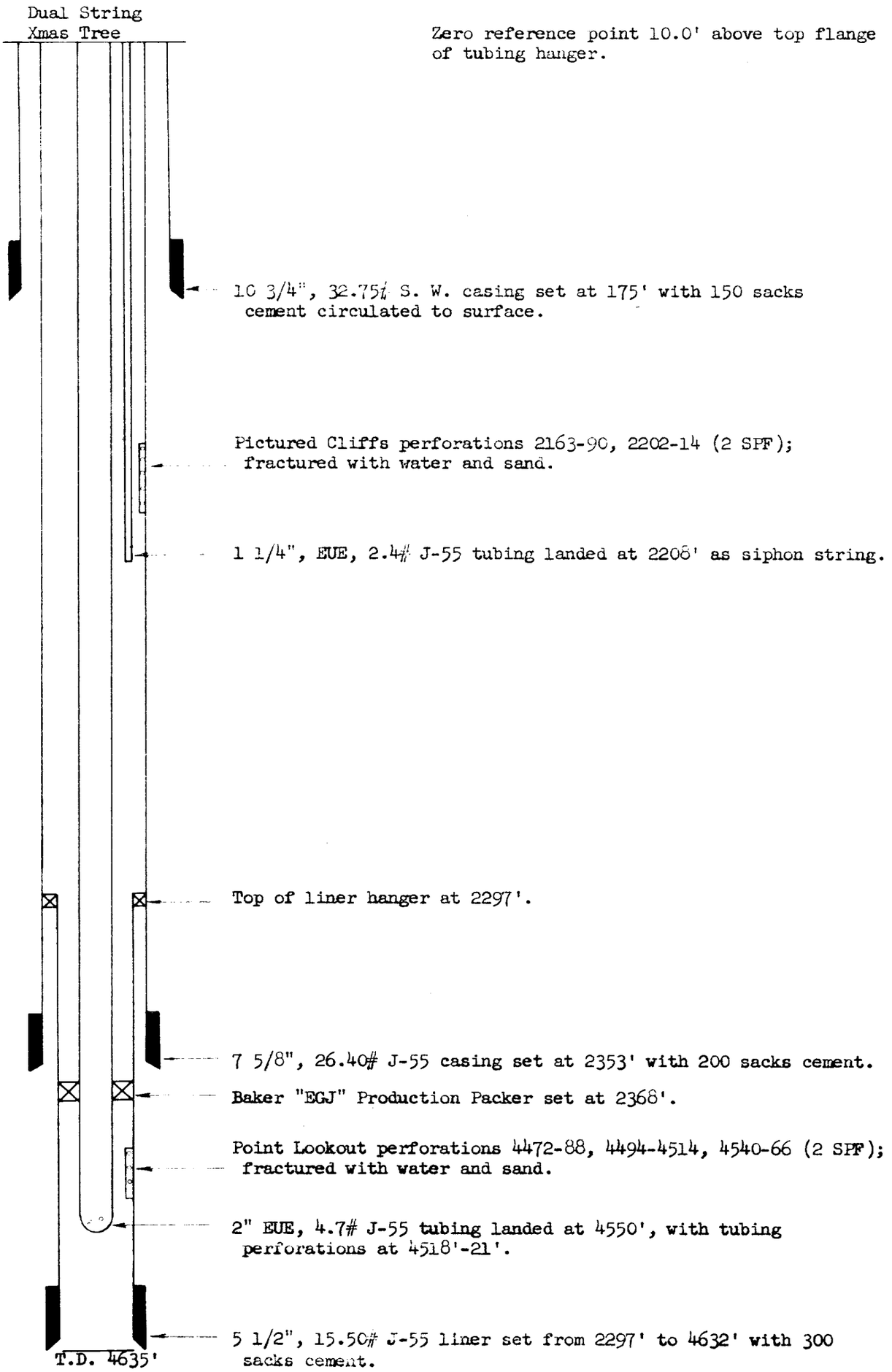
Yours very truly,

ORIGINAL SIGNED E. S. OBERLY

E. S. Oberly,
Division Petroleum Engineer

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

SCHEMATIC DIAGRAM OF DUAL COMPLETION
El Paso Natural Gas Co. Cuccia State No. 3 (PM)
SW/4 Section 22, T-27-N, R-8-W



EL PASO NATURAL GAS COMPANY

P. O. Box 997
Farmington, New Mexico

June 30, 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, Cuccia State No. 3 (PM), 890S, 1090W; 32-27-8, 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 2368 feet. The Mesa Verde zone was tested through a 3/4" choke for three hours June 13, 1958 with the following data obtained:

PC SIPC 616 psig; Shut-in 8 days

MV SIPT 1077 psig; Shut-in 8 days

Time Minutes	MV Flowing Pressure Tubing Psig	PC SIPC Psig	MV Working Pressure, Psig	Temp ° F
0	-	616		-
15	298	617		66
30	262	617		69
45	233	617		70
60	213	617		70
180	200	618	Calc. 381	72

The choke volume for the Mesa Verde was 2400 MCF/D with an AOF of 2664 MCF/D.

The Pictured Cliffs zone was tested June 24, 1958 with a 3/4" choke for 3 hours with the following data obtained:

PC SIPC 657 psig; Shut-in 19 days

MV SIPT 1100 psig; Shut-in 11 days

Time Minutes	PC Flowing Pressure Casing Psig	MV SIPT Psig	PC Working Pressure, Psig	Temp ^{o} F
0	-	1100		-
15	320	1100		60
30	275	1101		62
45	254	1101		63
60	241	1101		64
180	187	1102	191	68

The choke volume for the Pictured Cliffs test was 2388 MCF/D with an AOF of 2592 MCF/D.

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

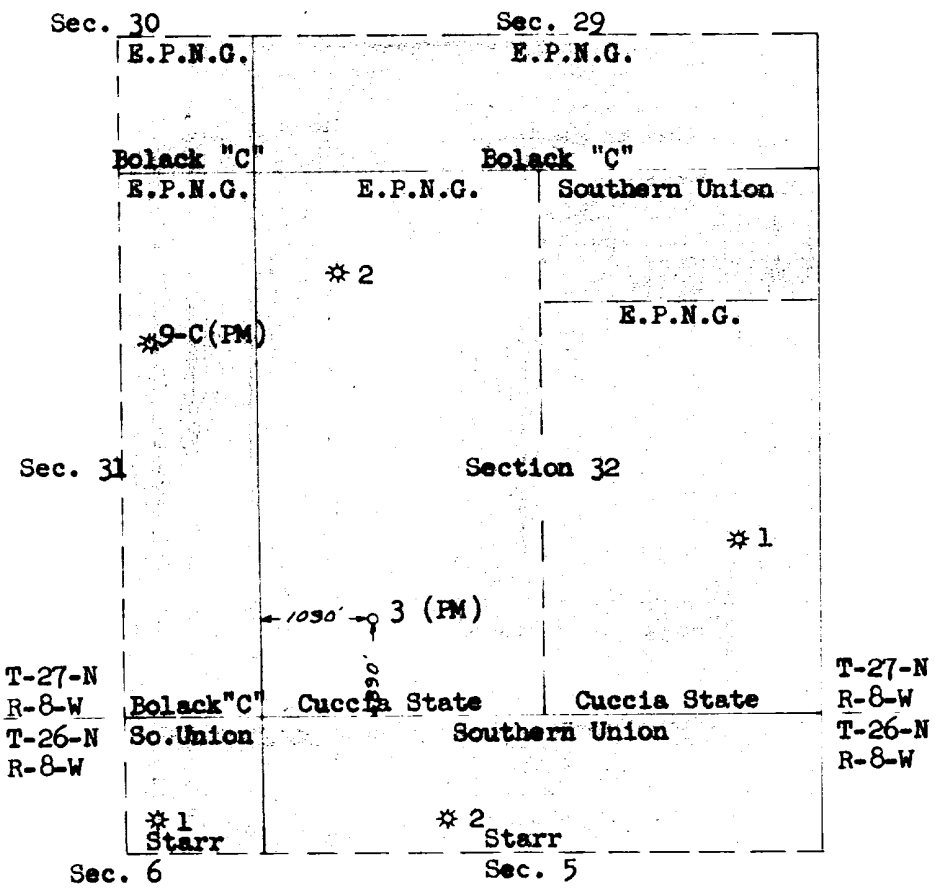
Very truly yours,

M. W. Rischard
Gas Engineer

MWR/nb

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

PLAT SHOWING LOCATION OF DUALLY COMPLETED
El Paso Natural Gas Co. Cuccia State No. 3 (PM)
and Offset Acreage



EL PASO NATURAL GAS COMPANY
EL PASO, TEXAS

SCALE	DATE	No.
DRAWN BY	CHECKED BY	

FORM 7-132 (10-56)