

STATE OF NEW MEXICO)
)
COUNTY OF SAN JUAN)

I, Mack 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 June 4,
1958, I was called to the location of the El Paso Natural Gas Products Company
Frontier No. 1-B (GD) Well located in the SE SE/4
(Well Number)
of Section 9, Township 27-N, Range 11-W, 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
6413 feet in accordance with the usual practices and customs of the industry.

Mack Mahaffey
Branch Manager

Subscribed and sworn to before me, a Notary Public in and for San Juan County,
New Mexico, the 17th day of September, 1958.

Jonathan R. Wheeler
Notary Public in and for San Juan County,
New Mexico.



*Will file
OK*

EL PASO NATURAL GAS PRODUCTS COMPANY

POST OFFICE BOX 1161, EL PASO, TEXAS

September 16, 1958



ADDRESS REPLY TO:
POST OFFICE BOX 1565
FARMINGTON, NEW MEXICO

Mr. A. L. Porter, Jr.
Secretary-Director
N. M. Oil Conservation Commission
Post Office Box 871
Santa Fe, New Mexico

Subject: Application for Dual Completion

Dear Mr. Porter:

This is a request for a public hearing of a well dually completed in the Gallup and Dakota Formations. The well, our Frontier No. 1-B (GD) is located 890' from the South line and 890' from the East line of Section 9, Township 27-N, Range 11-W, N.M.P.M., San Juan County, New Mexico. The well is not located within one mile of a defined pool with a similarly dually completed or within one mile of a well similarly dually completed.

The well was drilled and completed in the following manner:

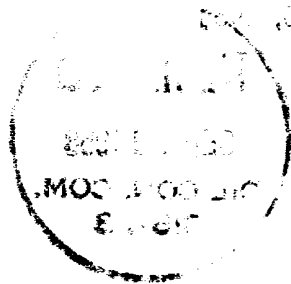
- (1) 10-3/4" surface casing set at 173' with 125 sacks of cement circulated to surface.
- (2) 7-5/8" intermediate casing set at 4765' with 100 sacks of cement on bottom stage and 100 sacks of cement through stage collar at 2166'. The cement was circulated through the stage collar in order to protect the Pictured Cliffs Formation for contamination. Top of cement on bottom stage calculated to be at 3943'. Top of cement on top stage at 1455' by temperature survey.
- (3) 5-1/2" production liner was set in gas drilled hole from 4597' to 6762'. Total depth of well 6770'. The liner was cemented with 400 sacks of cement, of which approximately 195 sacks were reversed out after circulating around the top of the liner. Top of cement was found to be at top of liner by temperature survey. After waiting twelve hours the liner and intermediate casing was tested with 1000 psi. for 30 minutes. The test was satisfactory.
- (4) The Lower Dakota (perforated 6612' to 6632' and 6638' to 6648'), Upper Dakota (perforated 6553' to 6589') and the Graneros (perforated 6509' to 6524') were perforated and sandwater fractured separately. All three zones were opened and potentialized together for 2,834 MCF per day through a 3/4" choke with an absolute open flow of 3,002 MCF per day.

C O P Y

REPUBLIC OF THE PHILIPPINES

Department of Education

Division Office - Manila



TO: The Secretary, Department of Education
FROM: The Division Superintendent, Division Office - Manila
SUBJECT: [Illegible]

Reference is made to your letter of [illegible] dated [illegible].

Very truly yours,

[Illegible text block]

[Illegible text block]

[Illegible text block]

[Illegible text block]

[Illegible text block]

[Illegible text block]

- (5) The Gallup zones (perforated 5916' to 5938' and 5818' to 5868') were perforated and sandoil fractured separately. Both zones were open and potentialized together for 30.36 bopd with 776 MCF gas through a 32/64" choke. The Gas-Oil Ratio was 25,559/1.
- (6) Separation between the Gallup and Dakota Formations was obtained by setting a Baker Model "EGJ" Production Packer on the Dakota 2" tubing string at 6413'. The Dakota tubing was set at 6606'. The Gallup 2" tubing string was set at 4563'.
- (7) Storage facilities are being constructed so that the oil from the Gallup Formation and liquids from the Dakota Formation will not be commingled and will be measured separately.

Enclosed you will find a diagrammatic sketch of the mechanical installation, plots showing location of well on lease and offset leases, results of packer leakage test, and affidavit of packer setting. The well log will be presented at the hearing.

The El Paso Natural Gas Products Company owns the lease in the NE/4 of Section 16, Township 27-N, Range 11-W and the R and G Drilling Company of Farmington, New Mexico, owns the lease in the SW/4 of Section 10, Township 27-N, Range 11-W. The R and G Drilling Company has been notified of the dual completion and we have requested by registered mail their approval of the dual completion.

The El Paso Natural Gas Products Company has recently received approval from the Federal Power Commission to sell gas from the Dakota Formation to the El Paso Natural Gas Company. The Dakota Formation is tied in and can be produced at any time. We request that the public hearing for the dual completion be as soon as possible so that the well may be put on production.

Very truly yours,

Ewell N. Walsh
Division Petroleum Engineer

BNW:EW

Enc. - 6

cc: Mr. Emery Arnold ✓
Mr. J. C. Vandiver
R & G Drilling Co.

(1) The following information was obtained from the records of the Department of the Interior, Bureau of Land Management, regarding the land owned by the United States in the State of California, and is being furnished to you for your information.

(2) The following information was obtained from the records of the Department of the Interior, Bureau of Land Management, regarding the land owned by the United States in the State of California, and is being furnished to you for your information.

(3) The following information was obtained from the records of the Department of the Interior, Bureau of Land Management, regarding the land owned by the United States in the State of California, and is being furnished to you for your information.

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(6) The following information was obtained from the records of the Department of the Interior, Bureau of Land Management, regarding the land owned by the United States in the State of California, and is being furnished to you for your information.

Very truly yours,

Director, Bureau of Land Management

Very truly yours,
Special Agent in Charge

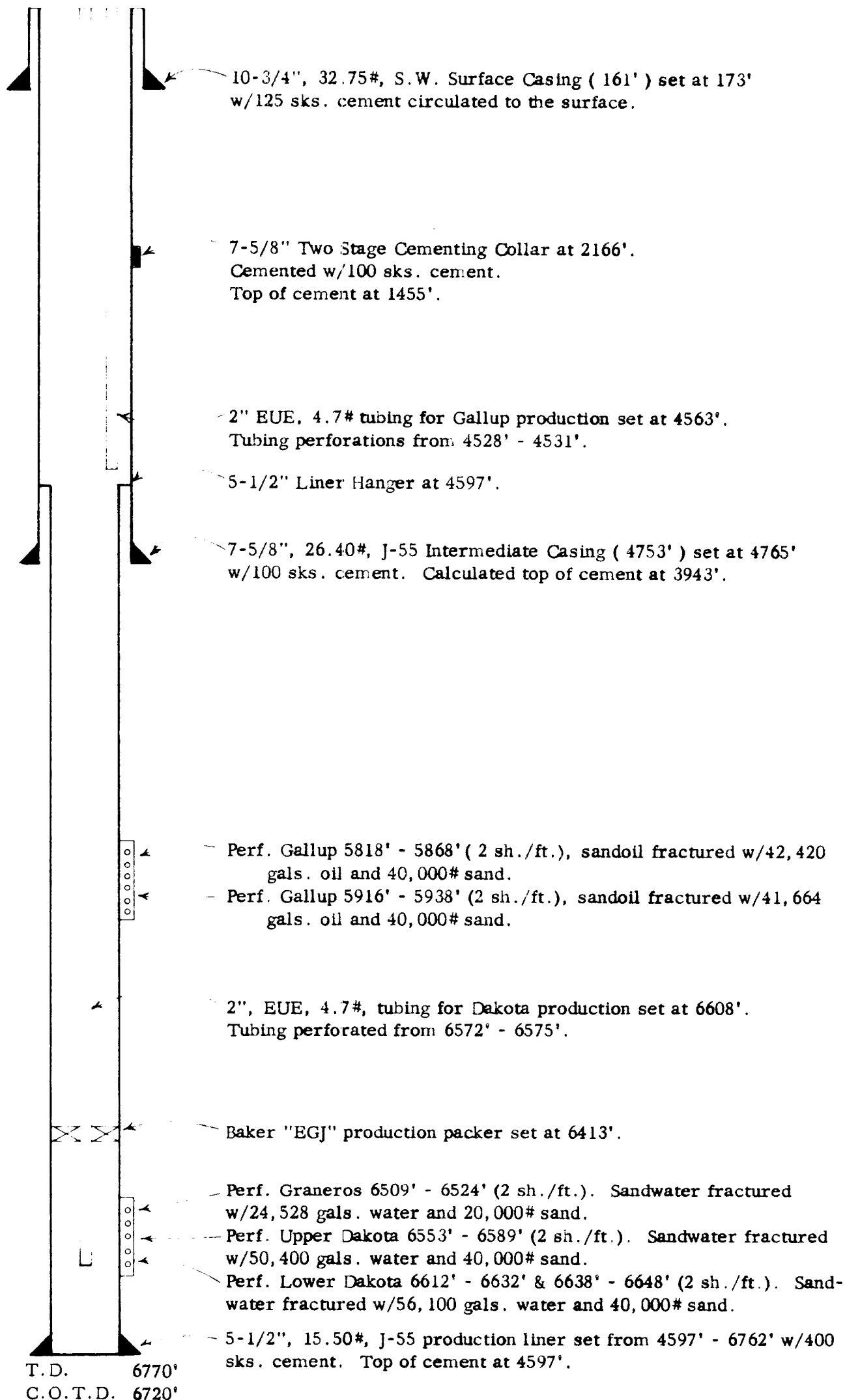
EL PASO NATURAL GAS PRODUCTS COMPANY

SCHEMATIC DIAGRAM OF DUAL COMPLETION

Frontier No. 1-B (GD)

SE SE Section 9, Township 27-N, Range 11-W

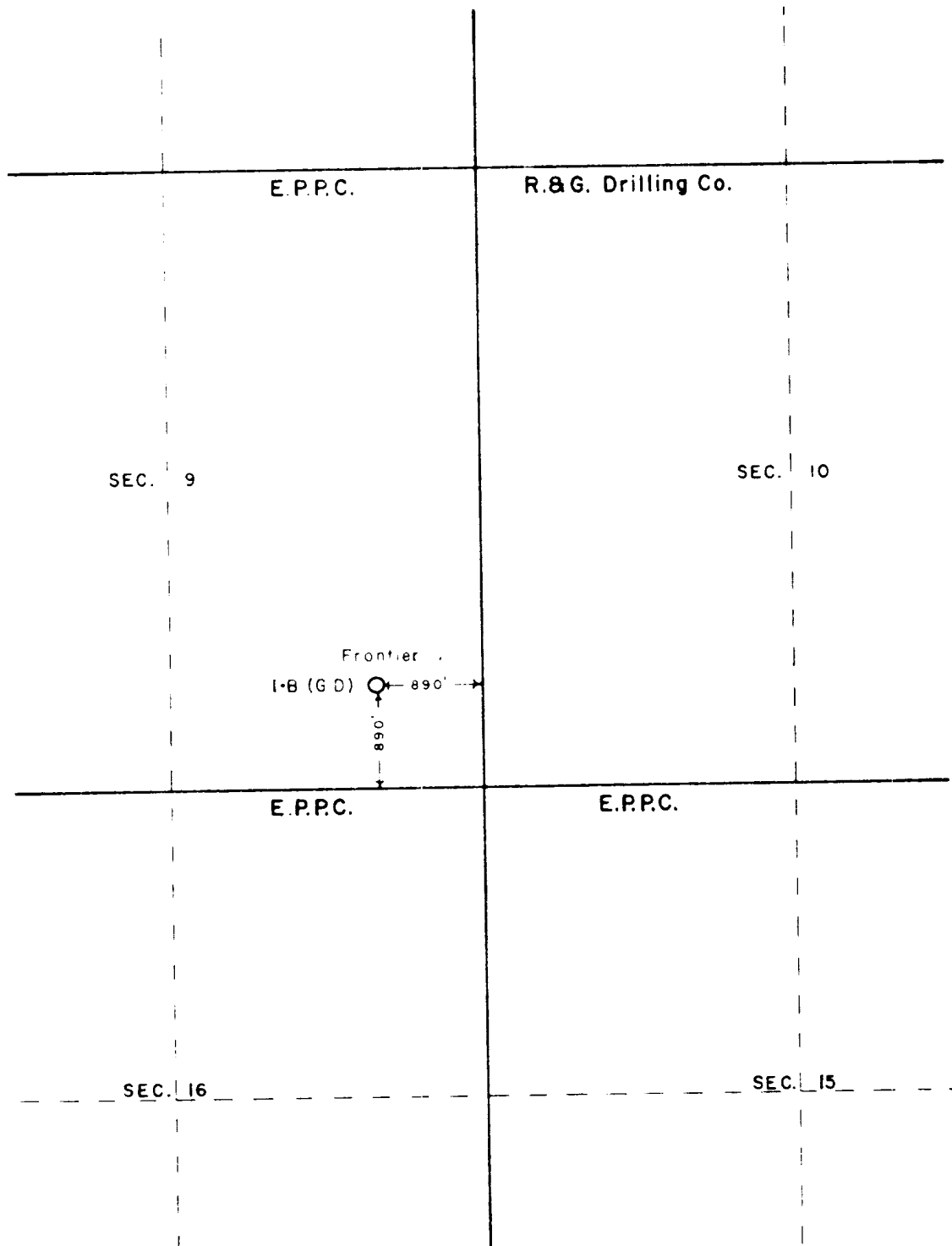
Dual String
Xmas Tree



EL PASO NATURAL GAS PRODUCTS COMPANY

Plat Showing Offset Leases to
Frontier No. 1-B (GD)
SE SE Section 9, T-27-N, R-11-W

R 11 W



T
27
N

EL PASO NATURAL GAS PRODUCTS COMPANY

Barabington, New Mexico

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

Date: August 4, 1958

Re: Packer Leakage Test on the El Paso Natural Gas Products
Company Well, Frontier No. 1-B (GD)
890' S, 890' E; Sec. 9, T-27-N, R-11-W, San Juan, N. M.
(Name Location County)

Dear Mr. Arnold:

The subject well was dually completed in the Gallup and Dakota zones and a packer was set at 6413 feet. The Gallup zone was tested through a 24/64" to 48/64" choke for 36 Days 6-12-58 to 7-18-58 with the following data obtained: (Date)

G SIPC 1237 psig;) shut-in 5 days

G SIPT 1235 psig;)

D SIPT 1874 psig; shut-in 5 days

Time Days	(Glp.) Flowing Pressure Tubing Psig	(Dak) SIP (C) Psig	(Glp.) Working Pressure, Psig	Temp. ° F
1	340	1874		
32		1912		
36 9:30 A.M.	106	1915	298	
" 10:00 A.M.	107	"	296	
" 10:30 A.M.	106	1916	"	
" 11:00 A.M.	110	1915	295	
" 11:30 A.M.	108	"	299	
" Noon	110	1916	298	
" 12:30 P.M.	113	"	299	
Gallup was then shut-in.				
" 12:45 P.M.	367	1917	375	
" 1:00 P.M.	402	1915	408	
" 1:15 P.M.	426	"	431	
" 1:30 P.M.	444	"	449	

The choke volume for the Gallup was 776 (7-13-58)
MCF/D with an AOF of _____ MCF/D.

This test indicates no leak between producing zones when the Gallup was tested.

Witnessed by: Fred Cook

Tested by: J. E. Kreger