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ELPASO NATURAL GAS PRODUCTS COMPANY

POST OFFICE BOX 1161, EL PASO, TEXAS January 20, 1959

Mr. A. L. Perter, Jr. Secretary and Director Oil Conservation Commission Fost Office Sex 871 Sents Fe, New Mexico JAN 2:2 1959 JAN 2:2 1959 OIL CON. COM. DIST. 3

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

Subject: Application for Dual Completion

Dear Mr. Porter:

This is a request for administrative approval of a well dually completed in the Gallup and Dakets formations. The well, our Dalhi-Taylor No. 1-C (GD), is located 790 feet from the South line and 790 feet from the West line of Section 4, Township 26N, Range 11W, NMPM, Sen Juan County, New Mexico. The well is located within one mile of a similarly dually completed well.

The well was drilled and completed in the following manner:

- (1) 10-3/4" Surface Casing set at 173' with 125 sacks of coment circulated to the surface.
- (2) 7-5/8" Intermediate Casing set at 4497" with 200 secks of cement. Top of cement by temperature survey is at 3,030".
- (3) 5-1/2" Production Liner is set from 4404' to 6524' with 300 sacks of cement. Top of cement by temperature survey is at 4,404'.
- (4) The Dakota formation is perforated from 6282' to 6308' and 6354' to 6376'. The perforated intervals were sandoil fractured with 45,000 gallons oil and 40,0000 of sand. This formation was potentialed for 3,872 MCF through a 3/4" choice with Absolute Open Flow of 3,875 MCF per day.
- (5) The upper portion of the Gallup was perforated from 5376' to 5390' and 5430' to 5464' and sandoil fractured with 44,838 gallons oil and 40,000# of sand. The lower portion of the Gallup was perforated from 5510' to 5526' and 5582' to 5606' and sandoil fractured with 48,300 gallons of oil and 37,000# of sand. Both zones are open and were potentialed together for 26.65 harrels per day and 364 MCF gas through a 24/64" chake. The Gas-Oli Ratio was 13,650/1.
- (6) Separation between the Gallup and Dehots formation was obtained by setting a Baker Model "D" Production Packer at 6210" and a Baker Model "D" Production Packer at 5297". A combination string of 2" tubing consisting of EUE and Hydril tubing was set through both production packers at a depth of 6216". Seel units run in the tubing C.O.P.Y.

string were used to pack off between the two packers. Through the top packer a Baker Model "F" Anchor-Type Change-Over Flow Tube was used. At this point the Dakota gas is crossed over into the annulus and the Gallup oil is brought into the tubing string.

- (7) An Otis Sliding Side Door Sleeve was run in the 2" tubing and set at 5220'. This may be used to help unload the annulus if ever necessary and to take bottom hole pressures of the Dakota formation.
- (8) A pump seating nipple was run in the tubing string and set at 5254'. This will be used in the event the Gallup production will have to be pumped.
- (9) Storage facilities are being constructed so that the oil from the Gallup formation and the liquid from the Dakota formation will not be commingled and will be measured separately.

Enclosed you will find a diagrammatical sketch of the mechanical installation, plat showing location of well on lease and offset leases, results of packer leakage test, affidavit of packer setting, and well log showing formation tops.

Pan-American Petroleum Corporation owns the lease in the NW/4 of Section 9, Township 26N, Range 11W, and the Western Development Company owns the lease the SE/4 of Section 5, Township 26N, Range 11W. Enclosed you will find the approval of the dual complation by the Western Development Company. The approval by the Pan-American Petroleum Corporation will be sent to you as soon as it is received.

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 in the process of being tied in and will be produced at such time the approval of this application can be received.

Very truly yours,

Driginal Signed EWELL N. WALSH

ENW:EW Enc.: -6

Mr. Emery Arnold

cc: USGS -- Mr. Phil McGrath

Mr. J. C. Vandiver

Ewell N. Walsh

Division Petroleum Engineer



el paso natural gas products company

POST OFFICE BOX 1161, EL PASO, TEXAS

january 16,

Mr. L. O. Speer Pan-American Petroleum Corp. Post Office Box 487 Farmington, New Mexico

Dear Mr. Speer:



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

The El Paso Natural Gas Products Company is making application to the New Mexico Oil Conservation Commission for an administrative approval of a dual completion. The well, our Delhi-Taylor No. 1-C (GD) is located 790 feet from the South line and 790 feet from the West line of Section 4, Township 26N, Range 11W, N.M.P.M., San Juan County, New Mexico. The well is located within one mile of a similarly dually completed well.

By the Order R-1214, concerning dual completions, we must have approval of the offset lease owners of the dual completion. According to our records you own the lease in the NW/4 of Section 9. Township 26N, Range 11W, which offsets our Delhi-Taylor No. 1-C (GD) well.

Enclosed you will find a plat showing the relationship of your lease to our dually completed well.

All tests required by the New Mexico Oil Conservation Commission on dually completed wells have been completed and the well is found in satisfactory condition for dual completion.

Would you please indicate your approval by signing two copies of this letter, the third copy is for your files, and return to the undersigned as soon as possible.

Thank you very much for your cooperation.

Very truly yours.

Original Signed EWELL N. WALSH

ENW:EW

Ewell N. Walsh

Enc.

Olvision Petroleum Engineer

ce: N

Mr. A. L. Porter, Jr. Mr. Emery Arnold ~

Mr. J. C. Vandiver

APPROVED: PAN-AMERICAN PETROLEUM CORPORATION

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EL PASO NATURAL GAS PRODUCTS COMPANY

POST OFFICE BOX 1161, EL PASO, TEXAS [anuary 16, 1959]

Mr. W. B. Scoreh
Western Development Company
Post Office Box 1201
Santa Fe. New Mexico

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

Dear Mr. Sourah:

The hil Paso Natural Gas Products Company is making application to the New Mexico Oil Conservation Commission for an administrative approval of a dual completion. The well, our Delhi-Taylor No. 1-C (GD) is located 790 feet from the South line and 790 feet from the Neutrine of section 4, Township 26N, Range 11W, N.M.P.M., San Juan County, New Mexico. The well is located within one mile of a similarly duality completes well.

By the Order R-1214, concerning dual completions, we must have approval of the offset lease owners of the dual completion. According to our records you own the lease in the SE/4 of Section 5, Township 26%, Range 11%, which offsets our Delhi-Taylor No. 1-C (GD) well.

Enclosed you will find a plat showing the relationship of your lease to our dually completed well.

All tests required by the New Mexico Oil Conservation Commission on dually completed wells have been completed and the well is found in satisfactory condition for dual completion.

Would you please indicate your approval by signing two copies of this letter, the third copy is for your files, and return to the undersigned as soon as possible.

Thank you very much for your cooperation.

Very truly yours.

Original Signed EWELL N. WALSH

ENW:EW

Enc.

Ewell N. Walsh

Division Petroleum Engineer

cc: Mr. A. L. Porter, Jr. Mr. Emery Arnold

Mr. J. C. Vandiver

APPROVED: WESTERN DEVELOPMENT COMPANY

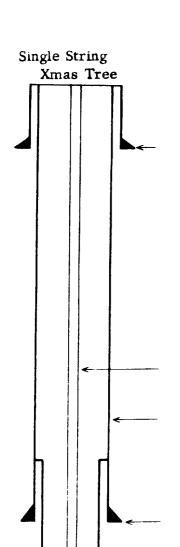
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EL PASO NATURAL GAS PRODUCTS COMPANY

SCHEMATIC DIAGRAM OF DUAL COMPLETION

Delhi-Taylor No. 1-C (GD)

SW SW Section 4, Township 26N, Range 11W



10-3/4", 28.60#, S.W. Surface Casing (161') set at 173° w/125 sks. cement circulated to the surface.



2-3/8", 4.7#, J-55 tubing & accessories (6206°) set at 6216°. Top 5267° EUE tubing, bottom 910° Hydril and 29° of accessories.

5-1/2" Liner Hanger at 4404°.

7-5/8", 26.40#, J-55 Intermediate Casing (4485°) set at 4497° w/200 sks. cement. Top of cement by temperature survey at 3030°.

Otis Sliding Side Door set at 5220'.

1 - 25/32" Pump Seating Nipple set at 5254°.

Baker Model "D" (permanent type packer) set at 5297°.

Baker Model "F" Anchor-Type Change-Over Flow Tube thru Top Packer.

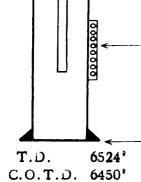
Gallup formation perforated 5376°-5390° & 5430°-5464° (2 sh./ft.), sandoil fractured w/44,833 gals. oil and 40,000# sand.

Gallup formation perforated 5510'-5526' & 5582'-5606' (2 sh./ft.), sandoil fractured w/48,300 gals. oil and 37,000# sand.

Baker Model "D" (permanent type packer) set at 6210°.

Dakota formation perforated 6282°-6308° & 6354°-6376° (2 sh./ft.), sandoil fractured w/45,000 gals. oil and 40,000# sand.

5-1/2", 15.50#, J-55 production liner (2120°) set from 4404° to 6524° w/300 sks. Top of cement by temperature survey at 4404°.



EL PASO NA TURAL GAS PRODUCTS CONPARY

Plat Showing Offset Leases to Delni-Taylor No. 1-6 (GD) SW SW Section 4, T26N, R11W

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Title

This form is <u>not</u> to be used for reporting packer leakage tests in Southeast New Mexico NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST Well Lease Deihi-Taylor No. 1-C (GD) Operator El Pase Natural Gas Products Company Location County Sen Juan of Well: Unit M Sec. 4 Twp. 26N 11W Rge. Prod. Medium Type of Prod. Method of Prod. (Tbg. or Csg.) Name of Reservoir or Pool (Oil or Gas) (Flow or Art. Lift) Upper Completion Undesignated Gallup Tbg. Oil Flowing Lower Completion Uniesignated Dakots Plowing Ceg. PRE-FLOW SHUT-IN PRESSURE DATA Upper Hour, date 7:00 A.M. Stabilized? SI press. Length of time shut-in 312 Hours psig Not Taken (Yes or No) Yes Compl Shut-in 11-29-58 Stabilized? Lower Hour, date 9:00 P.M. Length of SI press. (Yes or No) Yes time shut-in 576 Hours psig **2027** Compl Shut-in 12-6-58 FLOW TEST NO. Commenced at (hour, date)*1:00 P.M. 1-5-59

Time | Lapsed time | Pressure Zone producing (Upper or Lower):Upr Lapsed time Upper Compl. Lower Compl. (hour, date) Remarks since* Temp. Gallup (Upr. Compl.) had been pred Not Mess since 7:00 A.M. 12-12-58. 2027# 1:00 P. M. Start . 1-6-59 2027# 11:00 A.M. 22 Hours 181# Not Mess. 1-7-59 181# 2027# Not Mess 10:15 A.M ié Hours Gallup (Upr. Comp.) side shut-in at 10:15 A.M. 1-7-59 1-7-59 10:30 A.M. 15 Mia 2025# Shut - In 348# 1-7-59 480# 2025# 11:45 A.M. Shut-in 1-7-59 O Min. 2025# 500# Shut-in 12:15 P.M. MCFPD; Tested thru (Orifice or Meter): Place Tube

MID-TEST SHUT-IN PRESSURE DISTRIBUTE TO SHUT-IN PRESSURE DISTRIBUTE DIST 13,650/1 Production rate during test Oil:_ 27 BOPD based on Gas: Stabilized? SÎ press. Upper Hour, date10:15 A.M. Length of (Yes or No) No 891 Shut-in 1-7-59 time shut-in 168 Hours psig Compl Lower ower Hour, date 9:00 P.M. SI press. Stabilized? Length of (Yes or No)Yes * Shut-in 12-6-58 time shut-in 791 Hours 2029 psig Compl FLOW TEST NO. Commenced at (hour, date)** 9:40 A.M. 1-14-59 Zone producing (Upper or Lower): Lwr. Prod. Zone Pressure Time Lapsed time Temp. Remarks (hour. 6 since ** Upper Compl. | Lower Compl. date) 2029 9:40 A.M. Start 891 --1-14-59 480 9:55 A.M 15 Min 890 Not Mass LWY. Compi. Pres. is Flow Pres. 1-14-59 57⁰ O TE Measured behind 3/4" choke. 893 338 10:40 A 1-14-59 2 Hours 60° o Min. 294 316 11:40 A.M. and of Open Flow Pot. Test. 620 3 Hours 0 Min. 1-14-59 Well Boat-In. 303 895 12:40 P.M. Production rate during test mased on Bbls. in Hrs. Grav.
MCFPD; Tested thru (Orifice or Meter): 3/4 T - C Choke. GOR _BOPD based on_ Oil: 3, 883 AOF Gas: REMARKS: Pressure changes due to temperature effects of shutting in the Gallup Completion. No evidence of any leakage is shown by the packer leakage tests. I hereby certify that the information herein contained is true and complete to the best of my knowledge. Operator Bi Pase Natural Gas Products Company By ORIGINAL SIGNED BY: JOSEPH E. KREGER Approved: New Mexico Oil Conservation Commission Petroleum Engineer By_

Date ____ **January 19, 1959**

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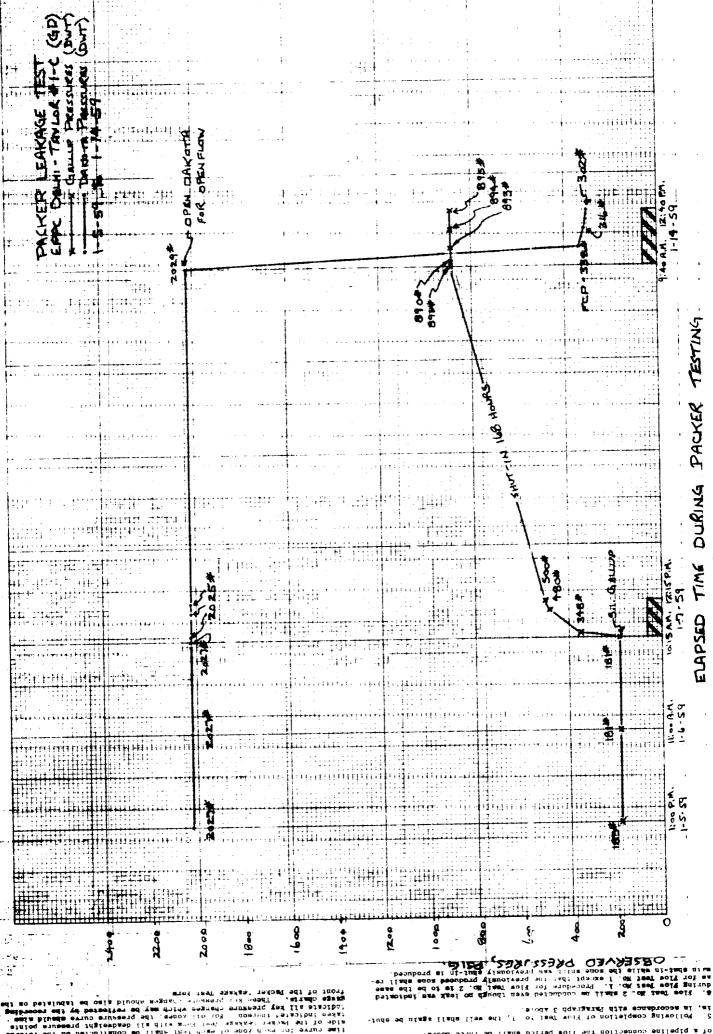
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RECEIVED

JAN 22 1959

OIL CON. COM.
DIST. 3

STATE OF NEW MEXIC)
COUNTY OF SAN HUAR)

i, Mack Mahaff	ey . Deing first duly sworn upon
my path depose and say as	follows:
I am an employee	of Baker Oil Tools, Inc., and that on October 18
19 58 , I was called to the	: location of the El Paso Natural Gas Products Company
Delhi-Taylor No. 1-C (GD) (Well Number	CONTRACTOR OF THE PARTY OF THE
of Section 4 . Tow	nship 26N . Range 11W N.M.P.M., for
advisory service in connec	tion with installation of a production packer. In my
prosence, a Baker Model	D Production Packer was set in this well at
6210 feet in accor-	ance with the usual practices and customs of the industry
	Mack Mahofly
	Branch Manager
Subscribed and swo	orn to before the, a Notary Public in and for San Juan County,
New Mexico, the 16th	say of January , 19 59
	•
	Januthon R. Tarker
	Yotary Public in and for San Juan County, New Mexico.
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Mack Mahaffey
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sew Mexico, Sie 16th and January , 19 59

Now Mexico.

EL PASO NATURAL GAS PRODUCTS COMPANY

DELHI-TAYLOR NO. 1-C

SW SW/4 Section 4, T26N, R11W

Formation tops by samples. No logs were run from surface to 4497 Ft.

Formation	Depth
Ojo Alamo	6681
Kirtland	803*
Fruitlend	1523*
Pictured Cliffs	1748*
Lewis	1910*
Mesa Verde	2616*
Point Lookout	4210'

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