

## NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

7-3-58

## APPLICATION FOR DUAL COMPLETION

Field Name <b>N. Los Pinos Dakota &amp; Blanco M. V.</b>		County <b>San Juan</b>		Date <b>7-29-58</b>
Operator <b>El Paso Natural Gas Company</b>		Lease <b>Allison Unit</b>		Well No. <b>13 (MD)</b>
Location of Well	Unit <b>M</b>	Section <b>12</b>	Township <b>21N</b>	Range <b>7N</b>

1. Has the New Mexico Oil Conservation Commission heretofore authorized the dual completion of a well in these same pools or in the same zones within one mile of the subject well? YES ☒ NO ☐
2. If answer is yes, identify one such instance: Order No. **DC-516** ; Operator, Lease, and Well No.:

**Allison Unit No. 12 (MD)**

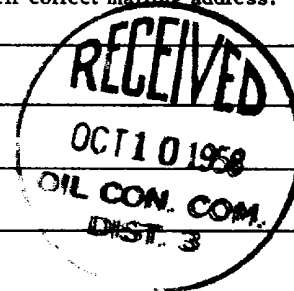
3. The following facts are submitted:	Upper Zone	Lower Zone
a. Name of reservoir	<b>Mesa Verde</b>	<b>Dakota</b>
b. Top and Bottom of Pay Section (Perforations)	<b>5748-5830</b>	<b>7924-8070</b>
c. Type of production (Oil or Gas)	<b>Gas</b>	<b>Gas</b>
d. Method of Production (Flowing or Artificial Lift)	<b>Flowing</b>	<b>Flowing</b>

4. The following are attached. (Please mark YES or NO)

- Yes a. Diagrammatic Sketch of the Dual Completion, showing all casing strings, including size and setting, top of cement, perforated intervals, tubing strings, including diameters and setting depth, location and type of packers and side door chokes, and such other information as may be pertinent.
- Yes b. Plat showing the location of all wells on applicant's lease, all offset wells on offset leases, and the names and addresses of operators of all leases offsetting applicant's lease.
- No c. Waivers consenting to such dual completion from each offset operator, or in lieu thereof, evidence that said offset operators have been furnished copies of the application.\*
- No d. Electrical log of the well or other acceptable log with tops and bottoms of producing zones and intervals of perforation indicated thereon. (If such log is not available at the time application is filed, it shall be submitted as provided by Rule 112-A.)

5. List all offset operators to the lease on which this well is located together with their correct mailing address.

**No offset operators**



6. Were all operators listed in Item 5 above notified and furnished a copy of this application? YES ☐ NO ☐ . If answer is yes, give date of such notification \_\_\_\_\_ .

CERTIFICATE: I, the undersigned, state that I am the **Division Petroleum Engr.** of the **El Paso Natural Gas** (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

**ORIGINAL SIGNED E. S. OBERLY**

Signature

- \* Should waivers from all offset operators not accompany an application for administrative approval, the New Mexico Oil Conservation Commission will hold the application for a period of twenty (20) days from date of receipt by the Commission's Santa Fe office. If, after said twenty-day period, no protest nor request for hearing is received by the Santa Fe office, the application will then be processed.
- NOTE: If the proposed dual completion will result in an unorthodox well location and/or a non-standard proration unit in either or both of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

the following information is required for the application of the proposed rule. The information should be provided in the form of a letter or memorandum, and should be submitted to the appropriate authority. The information should be provided in the form of a letter or memorandum, and should be submitted to the appropriate authority. The information should be provided in the form of a letter or memorandum, and should be submitted to the appropriate authority.

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE **September 10, 1958**

Operator <b>El Paso Natural Gas</b>		Lease <b>Allison 13 (D)</b>	
Location <b>890S, 950W; 12-32-7</b>		County <b>San Juan</b>	State <b>New Mexico</b>
Formation <b>Dakota</b>		Pool <b>N. Los Pinos Dak.</b>	
Casing Diameter <b>5-1/2</b>	Set At Feet <b>8138</b>	Casing Diameter <b>2" at 5873 1-1/4"</b>	Set At Feet <b>5873 - 8011</b>
Perforation Depth <b>7984</b>	Perforation Length <b>7998</b>	Perforation Depth <b>8150</b>	Perforation Length <b>Shut-in 9/1/58</b>
Flow Through Casing <b>Sand Water Frac.</b>		Flow Through Tubing <b></b>	

Choke Diameter <b>.75</b>	Choke Length <b>12.365</b>	Initial Pressure Tubing <b>2415 (D)</b>	Initial Pressure Casing <b>2427</b>
Initial Pressure Casing <b>1128 (MV)</b>	Initial Pressure Tubing <b>9</b>	Final Pressure Casing <b>1140</b>	Final Pressure Tubing <b>163</b>
Flowing Pressure Casing <b>151</b>	Flowing Pressure Tubing <b>163</b>	Temperature Casing <b>66</b>	Temperature Tubing <b>.75</b>
Gravity <b>.616</b>	Specific Gravity <b>1.013</b>	Viscosity <b>573</b>	Calc. <b>573</b>

Initial SIPC (MV) = 1128 psig  
Final SIPC (MV) = 1133

Packer at 5979

Flowing Volume =  $Q \times R \times E \times h \times P$

$$12.365 \times 163 \times .9943 \times .9877 \times 1.013$$

2005

SCF/D

$$\left( \frac{P_1^2 - P_2^2}{P_1^2 - P_2^2} \right)^n$$

$$\left( \frac{5,890,329}{5,562,000} \right)^n$$

$$(1.0590)^{.75} \times 2005 = 1.0440 \times 2005$$

2093

Jesse Goodwin

Checked By H. L. Kendrick

*Lewis D. Galloway*  
L. D. Galloway

# OPEN FLOW TEST DATA

DUAL COMPLETION

DATE September 18, 1958

El Paso Natural Gas	Allison 13 (M)	
890S, 950W; 12-32-7	San Juan	New Mexico
Mesa Verde	Blanco MV	
5-1/2	1-1/4 at 5873 - 8011	
5748	8150	Shut in 9/1/58
Sand Water Frac.	X	

.75	12.365		
1154 (MV)	1166	17 (MV)	2472 (D)
304	316	Calc.	332
68	.75	1.026	620

Initial SIPT (D) = 2472 PSIG

Final SIPT (D) = 2484 PSIG

Packer at 5879

GRAB SAMPLES: 1 x R, 1 x R, 1 x R, 1 x R, 1 x R

$$12.365 \times 316 \times 9924 \times 9837 \times 1.026$$

3914

ADP D

1,359,556  
1,249,332

$$3914 (1.0882)^{.75} = 3914 \times 1.0654$$

4170

Tom Grant

Checked By H. L. Kendrick

*Lewis D. Galloway*  
L. D. Galloway

EL PASO NATURAL GAS COMPANY

P. O. Box 907  
Farmington, New Mexico

September 18, 1958

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

Re: Packer Leakage Test on the El Paso Natural Gas  
Company Well, Allison 13 (DM), 890S, 950W;  
12-32-7, San Juan County, New Mexico.  
(Name - Location - Company)

Dear Mr. Arnold:

The subject well was dually completed in the Dakota and Mesa Verde zones and a packer was set at 5879 feet. The Dakota zone was tested through a  $3/4$ " choke for three hours September 10, '58 with the following data obtained:

MV XX SIC 1128 psig; Shut-in 9 days

IS SIC \_\_\_\_\_ psig;

Dak XX SIC 2415 psig; Shut-in 9 days

Time Minutes	Dak) Flowing Pressure Tubing Psig	(MV) SIC (C) psig	Dak) Working Pressure, psig	Temp ° F
0	2415	1132		
15	310	1132		62
30	270	1132		64
45	236	1132		64
60	216	1133		65
180	151	1133	Calc. 561	66

The choke volume for the Dakota was 2005 MCF/D with an AOF of 2093 MCF/D.

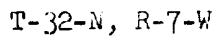
The Mesa Verde zone was tested Sept. 18, 1958 with a  $3/4$ " choke for 3 hours with the following data obtained.

MV XX SIC 1154 psig; Shut-in 17 days

IS SIC \_\_\_\_\_ psig;

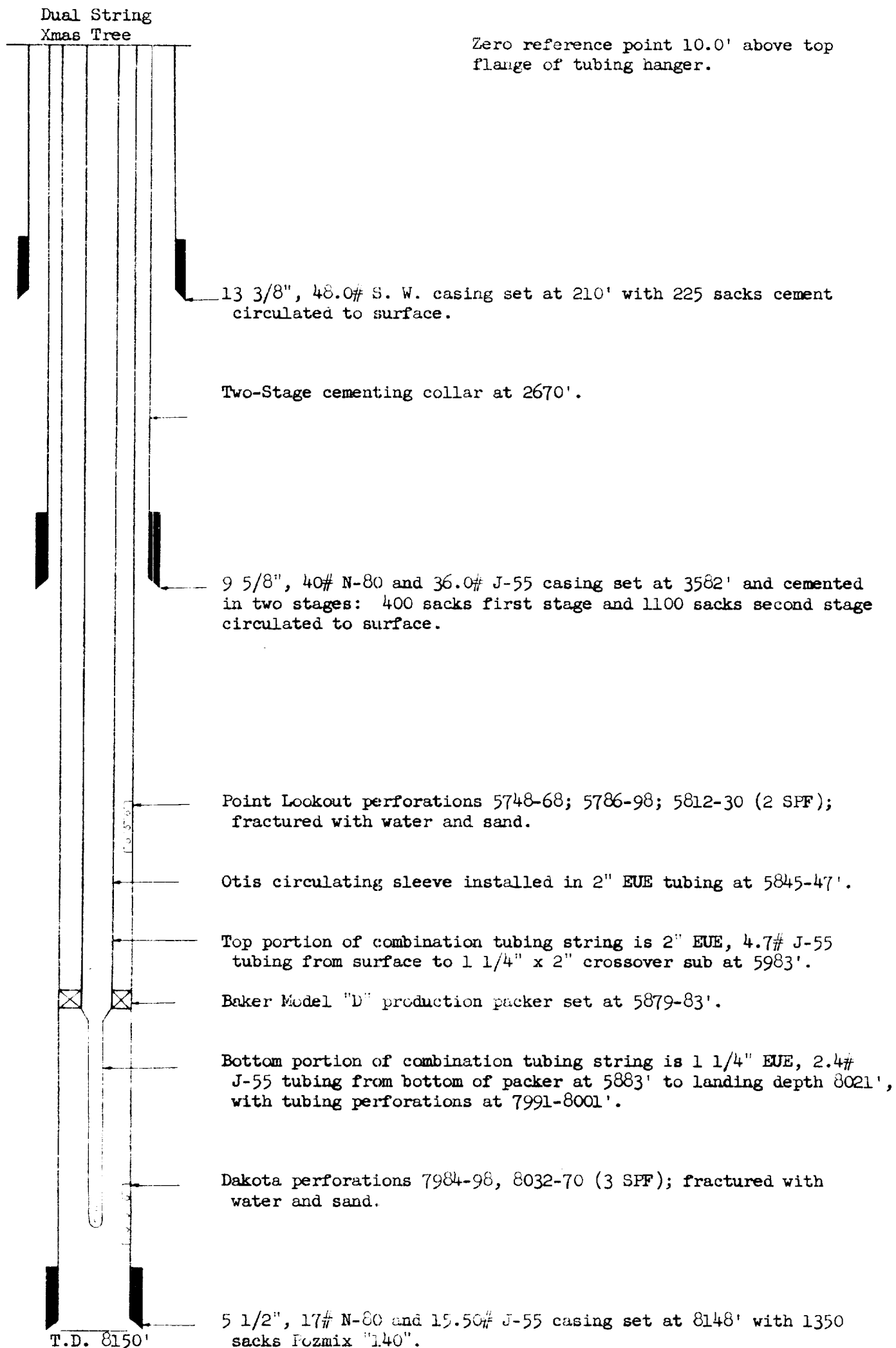
Dak XX SIC 2472 psig; Shut-in 10 days

T-32-N, R-6-W



FORM 7-132 10-56)

SCHEMATIC DIAGRAM OF DUAL COMPLETION  
El Paso Natural Gas Co. Allison Unit No. 13 (MD)  
SW/4 Section 12, T-32-N, R-7-W



STATE OF NEW MEXICO     )  
                                  )  
COUNTY OF SAN JUAN     )

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 July 16, 1958, I was called to the location of the El Paso Natural Gas Company Allison Unit No. 13 (MD) Well located in the SWSW/4 of Section 12, Township 32 North, Range 7 West, N.M.P.M., for advisory service in connection with installation of a production packer. In my presence, a Baker Model "D" Production Packer was set in this well at 5879 feet in accordance with the usual practices and customs of the industry.

Mack M. Mahaffey

Subscribed and sworn to before me, a Notary Public in and for San Juan County, New Mexico, the 30th day of September, 1958.

Don H. MacGill  
Notary Public in and for San Juan County,  
New Mexico

My commission expires February 24, 1960.



