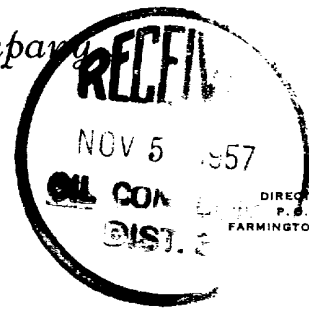


# El Paso Natural Gas Company

El Paso, Texas

October 30, 1957



Mr. A. L. Porter  
Secretary and Director  
Oil Conservation Commission  
Box 871  
Santa Fe, New Mexico

Dear Sir:

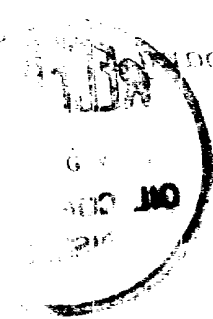
This is a request for administrative approval for a well dually completed in the Blanco Mesa Verde Pool and the South Blanco Pictured Cliffs Pool Extension. The El Paso Natural Gas Company Storey No. 3 (PM) is located 1050 feet from the South line and 950 feet from the West line of Section 26, Township 28 North, Range 8 West, N.M.P.M., San Juan County, New Mexico.

This well has been completed in the Cliff House and Point Lookout sections 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 174 feet with 150 sacks of cement circulated to the surface.
2. 7 5/8" intermediate casing set at 2741 feet with 250 sacks of cement. Top of the cement is at 1360 feet which is above the top of the Pictured Cliffs formation at 2510 feet.
3. 5 1/2" liner set from 2683 feet to 4952 feet with 300 sacks of cement. The top of the liner was squeezed with 150 sacks of cement.
4. The casing and liner were tested for leaks before perforating.
5. The Point Lookout section was perforated in two intervals and fractured with water and sand.
6. The Cliff House section was perforated in two intervals and fractured with water and sand.
7. The Pictured Cliffs formation was perforated in two intervals and fractured with water and sand.
8. All perforations were cleaned after treatment and completion was accomplished by setting a Baker Model EGJ production packer on 2" EUE tubing at 2790 feet with the tubing perforations set opposite the Point Lookout perforations. 1 1/4" Grade B line pipe was run, with the tubing perforations set opposite the Pictured Cliffs perforations, as a siphon string. The Point Lookout gas will be produced through the 2" EUE tubing and the Pictured Cliffs gas through the casing.

COPY

RECEIVED  
JAN 12 1964



St. Louis National Gas Company

St. Louis, Mo.

January 12, 1964

Mr. J. H. Smith  
St. Louis, Mo.

Dear Mr. Smith:

I am writing to you regarding the matter of the St. Louis National Gas Company's policy on the use of gas for heating purposes. As you are aware, the company has a long history of providing gas service to the St. Louis area, and we are committed to providing the highest quality service to our customers.

One of the primary concerns of the company is the safety of our customers. We have a strict policy of not providing gas service to any customer who does not have a properly installed and maintained gas heating system. This policy is in place to ensure the safety of our customers and the community as a whole.

I understand that you are currently in the process of having a new gas heating system installed in your home. We encourage you to have the system installed by a qualified professional, and we will be happy to provide you with a list of recommended installers. Once the system is installed, we will schedule a safety inspection to ensure that the system is operating properly and safely.

We also want to remind you that it is your responsibility to maintain your gas heating system properly. This includes scheduling regular maintenance checks and replacing any worn or damaged parts. We will be happy to provide you with information on how to schedule maintenance and where to purchase replacement parts.

If you have any questions or concerns, please do not hesitate to contact us. We are always here to help our customers.

Sincerely,  
J. H. Smith  
St. Louis National Gas Company

9. A Garrett circulating sleeve was installed in the 2" EUE tubing string just below the Pictured Cliffs perforations. This will enable the bottom hole pressure tests to be taken at a future date if so required.
10. 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.

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, the approval of any other operator has not been sought. I am enclosing:

- (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.

It is intended to dedicate the S/2 of Section 26, Township 28 North, Range 8 West to the Mesa Verde formation and the SW/4 of Section 26, Township 28 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: Emery Arnold  
Sam Smith  
Phil McGrath



The following information was obtained from the records of the  
 Department of the Interior, Bureau of Land Management, and is  
 being furnished to you for your information. It is not to be  
 used for any other purpose without the express written  
 consent of the Bureau of Land Management.

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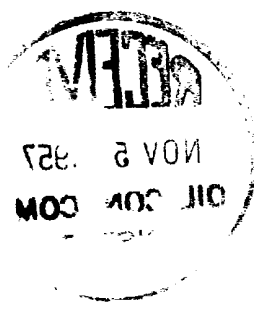
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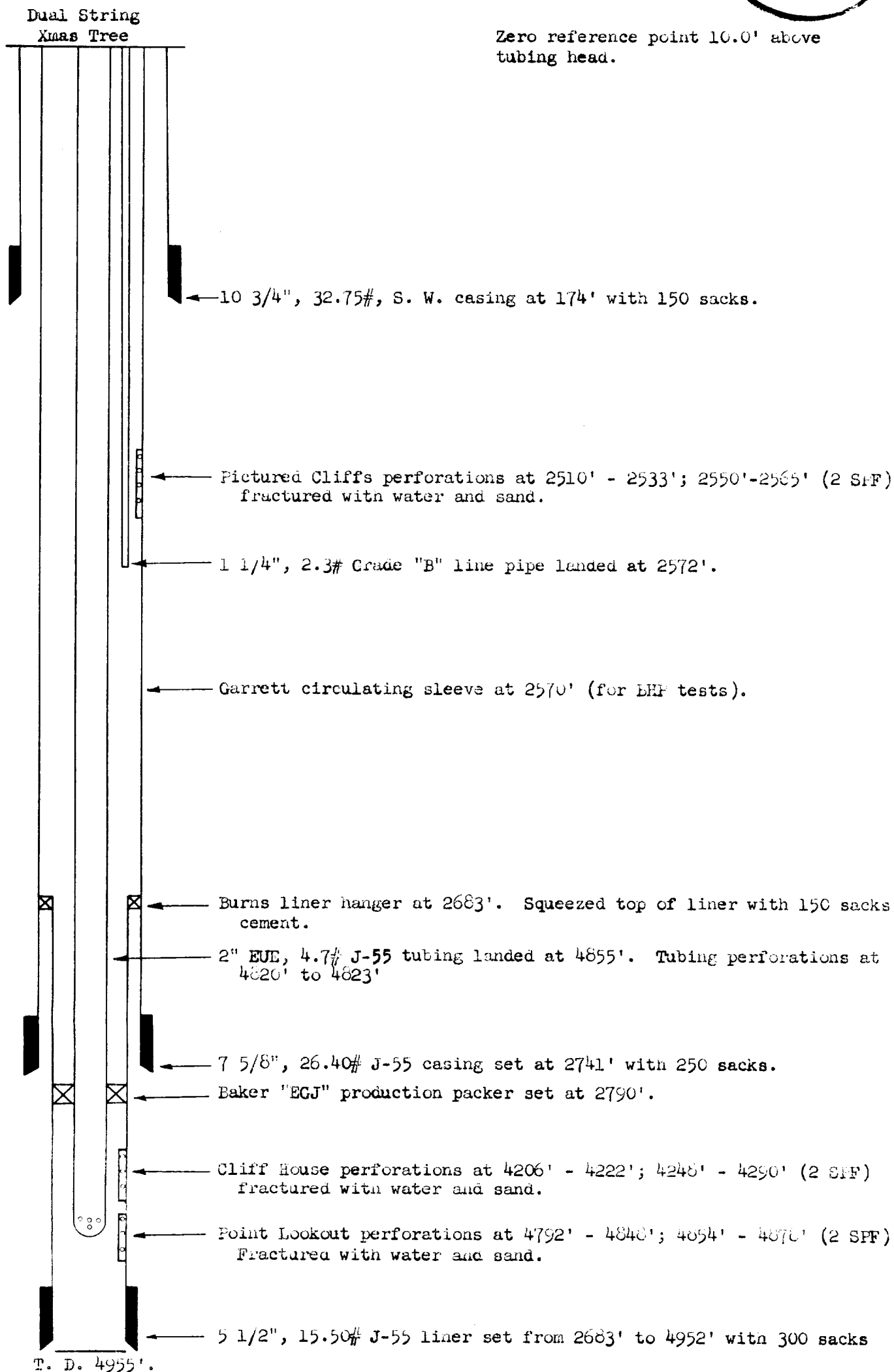
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 consent of the Bureau of Land Management.

ORIGINAL SIGNED L. J. OBERLY



SCHEMATIC DIAGRAM OF DUAL COMPLETION  
EL PASO NATURAL GAS STOREY NO. 3 (LM)  
(SW Section 2, T-27-N, R-6-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 September 29, 1957, I was called to the location of the El Paso Natural Gas Company Storey No. 3 (PM) Well located in the SW/4 SW/4 of Section 26, Township 28 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 "BJ" Production Packer was set in this well at 2790 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 1 day of Nov, 1957.

Don A. Macchale  
Notary Public in and for San Juan County,  
New Mexico

My commission expires February 24, 1960.



CONFIDENTIAL

1. *Chlorophyll a* (Chl *a*)  
2. *Chlorophyll b* (Chl *b*)  
3. *Chlorophyll c* (Chl *c*)  
4. *Chlorophyll d* (Chl *d*)  
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148.

Shirley Ann Jones, 40, of 1115 S. 1st St., Tulsa, Okla., was arrested on a charge of driving without a license.

REV. 11-73 11-20-2000

It changed to 1000 hrs. and I left the room. I saw lights at 10:10

1400 Franklin Street, Suite 1400, San Francisco, CA 94109

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DATE: 11/11/2011 11:11 AM

10-10-68

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*[Illegible text]*

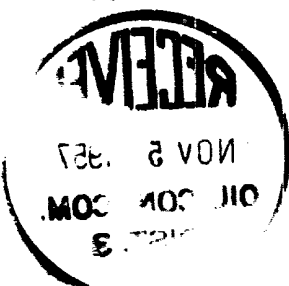
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...and not here at night.

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EL PASO NATURAL GAS COMPANY

P. O. Box 997  
Farmington, N.M.

October 17, 1957

Mr. E. C. Arnold  
Oil Conservation Commission  
120 East Chaco  
Aztec, New Mexico

Re: Packer Leakage Test on the El Paso Natural  
Gas Company Well, Storey No. 3 (PM), 1050'S,  
950'W, Sec. 26-28-8, San Juan County, N.M.

Dear Mr. Arnold:

The subject well was dually completed in the Pictured Cliffs and Mesa Verde zones and a packer was set at 2790 feet. The Mesa Verde zone was tested through a 3/4" choke for three hours October 8, 1957, with the following data obtained:

Pictured Cliffs SIPC 892 psig; shut-in 9 days  
Pictured Cliffs SIPT 892 psig

Mesa Verde SIPT 1038 psig; shut-in 9 days

| <u>Time</u><br><u>Minutes</u> | <u>MV Flowing Pressure</u><br><u>Tubing Psig</u> | <u>PC SIPC Psig</u> | <u>MV Working</u><br><u>Pressure, Psig</u> | <u>Temp° F</u> |
|-------------------------------|--|---------------------|--|----------------|
| 15                            | 437  | 894                 |  | 65             |
| 30                            | 382  | 894                 |  | 66             |
| 45                            | 358  | 894                 |  | 67             |
| 60                            | 339  | 895                 |  | 67             |
| 180                           | 258  | 896                 | Calculated-501                             | 69             |

The choke volume for the Mesa Verde was 3205 MCF/D with an A.O.F. of 3931 MCF/D.

The Pictured Cliffs zone was tested October 16, 1957 with a 3/4" choke for three hours with the following data obtained:

Pictured Cliffs SIPC 934 psig; shut-in 16 days  
Pictured Cliffs SIPT 934 psig

Mesa Verde SIPT 1053 psig; shut-in 8 days






| <u>Time<br/>Minutes</u> | <u>PC Flowing Pressure<br/>Casing Psig</u> | <u>MV SIPT Psig</u> | <u>PC Working<br/>Pressure, Psig</u> | <u>Temp<sup>o</sup>F</u> |
|-------------------------|--|---------------------|--------------------------------------|--------------------------|
| 15                      | 675  | 1054                |                                      | 59                       |
| 30                      | 635  | 1055                |                                      | 61                       |
| 45                      | 612  | 1056                |                                      | 62                       |
| 60                      | 550  | 1056                |                                      | 62                       |
| 180                     | 357  | 1057                | 366                                  | 65                       |

The choke volume for the Pictured Cliffs test was 4425 MCF/D with an A.O.F. of 5128 MCF/D.

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

The Mesa Verde test was witnessed by A. R. Kendrick, New Mexico Oil Conservation Commission.

Very truly yours,

  
 R. A. Ullrich  
 Gas Engineer

RAU/jla

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



EL PASO NATURAL GAS COMPANY  
GAS WELL TESTTo: Mr. E. E. Alsup  
From: Gas Engineering DepartmentDate: October 8, 1957  
Place: Farmington, New MexicoDUAL COMPLETIONSubject: Test data on the El Paso Natural Gas Company Well,  
STOREY NO. 3, San Juan County, New Mexico.Tested By: R. A. Ullrich. Witnessed by: A. R. Kendrick, New Mexico Oil Conservation  
Commission

Location ..... Sec. 26 T. 28 R. 8 .1050'S, 950'W

Shut-In Pressure ..... P.C. SIPC 892 psig  
M.V. SIPT 1038 psig ; (Shut-in 9 days)0.750" Choke Volume ..... 3205 MCF/D @ 14.7 psia and 60° F. for 0.6  
gravity gas. Flow through tubing for 3 hours.

Calculated 3 Hour Absolute Open Flow ..... 3931 MCF/D

Working Pressure On ..... Calculated = 501 Psig

Producing Formation ..... Mesa Verde

Stimulation Method ..... Sand Water Frac.

Total Depth ..... 4955 - c/o 4930

Field ..... Blanco

H<sub>2</sub>S ..... Sweet to lead acetate.

Final SIPC - 896 psig; Garrett Sleeve at 2570 - Packer at 2790

cc: D. H. Tucker

+R. W. Hester

+E. J. Coel, Jr.

+G. J. Wacker

W. M. Rodgers

Wayne Cheek

Drilling Department

B. D. Adams

+R. A. Ullrich

Jack Purvis

+R. A. Ullrich

C. C. Kennedy

E. J. Coel, Jr.

A. J. Dudenhoeffer

File

Bill Parrish  
Dean Rittmann  
E. S. Oberly (6)  
Samuel Smith*Lewis D. Galloway*  
L. D. Galloway

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATADUAL COMPLETIONDATE October 8, 1957

|  |                             |  |                                 |
|--|-----------------------------|--|---------------------------------|
| Operator<br><b>El Paso Natural Gas Company</b> |                             | Lease<br><b>Storey No. 3</b>           |                                 |
| Location<br><b>1050'S, 950'W, Sec. 26-28-8</b> |                             | County<br><b>San Juan</b>              | State<br><b>New Mexico</b>      |
| Formation<br><b>Mesa Verde</b>                 |                             | Pool<br><b>Blanco</b>                  |                                 |
| Casing: Diameter<br><b>7-5/8</b>               | Set At: Feet<br><b>2730</b> | Tubing: Diameter<br><b>2</b>           | Set At: Feet<br><b>4845</b>     |
| Pay Zone: From<br><b>4206</b>                  | To<br><b>4878</b>           | Total Depth:<br><b>4955 - c/o 4930</b> |                                 |
| Stimulation Method<br><b>Sand Water Frac.</b>  |                             | Flow Through Casing                    | Flow Through Tubing<br><b>X</b> |

|  |      |                                    |                          |   |                                 |
|--|------|------------------------------------|--------------------------|---|---------------------------------|
| Choke Size, Inches<br><b>0.75</b>          |      | Choke Constant: C<br><b>12.365</b> |                          | <b>5-1/2" liner - 2863 - 4952</b>         |                                 |
| Shut-In Pressure, Casing,<br>PC <b>892</b> | PSIG | - 12 - PSIA                        | Days Shut-In<br><b>9</b> | Shut-in Pressure, Tubing<br><b>1038</b>   | PSIG - 12 - PSIA<br><b>1050</b> |
| Flowing Pressure: P<br><b>258</b>          | PSIG | - 12 - PSIA<br><b>270</b>          |                          | Working Pressure: Pw<br><b>Calculated</b> | PSIG - 12 - PSIA<br><b>513</b>  |
| Temperature: T<br><b>69</b>                | F    | n<br><b>.75</b>                    |                          | Fpv (From Tables)<br><b>1.027</b>         | Gravity<br><b>.675</b>          |

**Final SIPC - 896 psig - Garrett Sleeve at 2570 - Packer at 2790**CHOKE VOLUME -  $Q = C \times P_c \times F_c \times F_g \times F_{pv}$ 

$$Q = 12.365 \times 270 \times .9915 \times .9427 \times 1.027 = 3205 \text{ MCF/D}$$

$$\text{OPEN FLOW } A_{of} = Q \left( \frac{P_c^2}{P_c^2 - P_w^2} \right)^n$$

$$A_{of} = \left( \frac{1,102,500}{839,331} \right)^n = 1.3135^{.75} \times 3205 = 1.2265 \times 3205$$

$$A_{of} = 3931 \text{ MCF/D}$$

TESTED BY R. A. UllrichWITNESSED BY A. R. Kendrick, N.M.O.C.C.

cc: E. S. Oberly (6)

*L. D. Galloway*  
L. D. Galloway



EL PASO NATURAL GAS COMPANY  
GAS WELL TEST

To: Mr. E. E. Alsup

Date: October 16, 1957

From: Gas Engineering Department

Place: Farmington, New Mexico

DUAL COMPLETIONSubject: Test data on the El Paso Natural Gas Company Well,  
STOREY NO. 3 (PM) San Juan County, New Mexico.

Tested By: R. A. Ullrich

Location ..... Sec. 26 T. 28 R. 8 1050'S, 950'W

Shut-In Pressure ..... P.C. SIPC 934 psig ; (Shut-in 16 days)  
P.C. SIPT 934 psig

M.V. SIPT 1053 psig

0.750" Choke Volume ..... 4472 MCF/D @ 14.7 psia and 60° F. for 0.6  
gravity gas. Flow through casing for 3 hours.

Calculated 3 Hour Absolute Open Flow ..... 5183 MCF/D

Working Pressure On tubing ..... 366 Psig

Producing Formation ..... Pictured Cliffs

Stimulation Method ..... Sand Water Frac.

Total Depth ..... 4955 - c/o 4930

Field ..... Undesignated

H2S ..... Sweet to lead acetate.

Packer at 2790. Sleeve at 2570. Final SIPT (MV) - 1057 psig

cc: D. H. Tucker

Bill Parrish

~~W. M. Rodgers~~

Dean Rittmann

~~W. M. Rodgers~~

E. S. Oberly (6)

~~W. M. Rodgers~~

Samuel Smith

W. M. Rodgers

Wayne Cheek

Drilling Department

B. D. Adams

~~W. M. Rodgers~~

Jack Purvis

~~W. M. Rodgers~~

C. C. Kennedy

E. J. Coel, Jr.

A. J. Dudenhoeffer

File

L. D. Galloway  
L. D. Galloway

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE October 16, 1957

|  |                             |  |                            |
|--|-----------------------------|--|----------------------------|
| Operator<br><b>El Paso Natural Gas</b>         |                             | Lease<br><b>Storey No. 3 (PM)</b>      |                            |
| Location<br><b>1050'S, 950'W, Sec. 26-28-8</b> |                             | County<br><b>San Juan</b>              | State<br><b>New Mexico</b> |
| Formation<br><b>Pictured Cliffs</b>            |                             | Pool<br><b>Undesignated</b>            |                            |
| Casing: Diameter<br><b>7-5/8</b>               | Set At: Feet<br><b>2730</b> | Tubing: Diameter<br><b>1-1/4</b>       | Set At: Feet               |
| Pay Zone: From<br><b>2510</b>                  | To<br><b>2555</b>           | Total Depth:<br><b>4955 - c/o 4930</b> |                            |
| Stimulation Method<br><b>Sand Water Frac.</b>  |                             | Flow Through Casing<br><b>X</b>        | Flow Through Tubing        |

|  |                    |                                    |  |                                    |  |
|--|--------------------|------------------------------------|--|------------------------------------|--|
| Choke Size, Inches<br><b>0.75</b>            |                    | Choke Constant: C<br><b>12.365</b> |  | <b>5-1/2" liner - 2683 to 4952</b> |  |
| Shut-in Pressure, Casing, PSIG<br><b>934</b> | PSIA<br><b>946</b> | Days Shut-In<br><b>16</b>          | Shut-in Pressure, Tubing, PSIG<br><b>934</b> | PSIA<br><b>946</b>                 |  |
| Flowing Pressure: P, PSIG<br><b>357</b>      | PSIA<br><b>369</b> |                                    | Working Pressure: Pw, PSIG<br><b>366</b>     | PSIA<br><b>378</b>                 |  |
| Temperature: T<br><b>65</b>                  |                    |                                    | Fpv (From Tables)<br><b>1.037</b>            | Gravity<br><b>.665</b>             |  |

Start SIPT (MV) - 1053 psig; Final - 1057 psig. Packer at 2790. Sleeve at 2570

CHOKE VOLUME  $Q = C \times P_1 \times P_2 \times F_g \times F_v$

$Q = 12.365 \times 369 \times .9952 \times .9498 \times 1.037 = 4472$  MCF/D

OPEN FLOW  $Aof = Q \left( \frac{P_1}{P_2} \right)^n$

$Aof = \left( \frac{894,916}{752,032} \right)^{1.1899 \times .85} \times 4472 = 1.1589 \times 4472$

Aof 5183 MCF/D

REVIEWED BY R. A. Ullrich

WITNESSED BY

cc: E. S. Oberly (6)

L. D. Galloway  
L. D. Galloway

