

El Paso Natural Gas Company

El Paso, Texas

June 7, 1957

DIRECT REPLY TO:
P. O. 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 the Wildcat Pictured Cliffs Pool. The El Paso Natural Gas Company McCulley No. 3 (PM) is located 1951 feet from the South line and 1020 feet from the West line of Section 24, Township 28 North, Range 9 West, N.M.P.M., Rio Arriba 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 effected in the following manner:

1. 10-3/4" surface casing set at 172' with 150 sacks cement circulated to the surface.
2. 7-5/8" intermediate casing set at 2454' with 250 sacks cement. Top of cement by temperature survey at 985', which is above the top of the Pictured Cliffs at 2292'.
3. 5-1/2" liner set from 2396' to 4765' with 300 sacks cement. Squeezed top of liner with 200 sacks cement.
4. The casing and liner were tested for leaks before perforating.
5. The Point Lookout section was perforated in four intervals and fraced with water and sand.
6. The Pictured Cliffs formation was perforated in two intervals and fractured with water and sand.
7. All perforations were cleaned out after fracturing and completion was accomplished by setting a Baker Model "EGJ" packer on 2" EUE tubing at 2444' with the tubing perforations opposite the Point Lookout perforations. 1-1/4" Grade "B" line pipe was used as a siphon string with tubing perforations opposite the Pictured Cliffs perforations.



COPY

Page 3 of 10

[illegible]

1. *Chlorophyll a* (Chl *a*)

1. The first step is to identify the key components of the system. This includes understanding the hardware, software, and data involved.

• **Prevalence** – the proportion of people in a population who have a disease at a particular point in time

[illegible]

The following table shows the number of persons employed in the various occupations in the manufacturing industry in the United States, by sex, in 1900.

[illegible][illegible]

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

[illegible]

100-443887-100



8. The Mesa Verde gas will be produced through the 2" EUE tubing and the Pictured Cliffs gas through the casing.
9. A Garrett side door flow nipple was installed in the 2" EUE string just below the Pictured Cliffs perforations. This flow nipple will enable bottom hole pressure tests to be made in the future if it be so required.
10. Initial potential tests have been run showing commercial production in both zones. A packer leakage test has also been run, the test being witnessed by a member of the Aztec office of the Oil Conservation Commission. Results of this test show no communication in the well bore between the two zones.

Administrative approval is requested for this dual completion to allow production from both producing formations in order to eliminate the high initial cost of drilling two separate wells.

Approval for dual completing this well has been received from Pan American Oil Corporation, owners of the NW/4 of the NW/4 of Section 25, Township 28 North, Range 9 West which adjoins the drilling block. Enclosed is a letter of approval from the offset operator. Also enclosed are:

- (a) Two copies of plats showing the location of this well and the offset operator.
- (b) Two copies of the schematic diagram of the mechanical installations.
- (c) Two copies of the affidavit from a packer setting company stating that the packer used was set at the depth shown.
- (d) Two copies of the packer leakage test as observed by a member of the Oil Conservation Commission.
- (e) Two copies of the initial potential test showing commercial production from the two formations.

It is intended to dedicate the W/2 of Section 24, Township 28 North, Range 9 West to the Mesa Verde formation and the SW/4 of Section 24, Township 28 North, Range 9 West to the Pictured Cliffs formation.

Any further information required will be furnished upon your request. Thank you for your consideration of the matter.

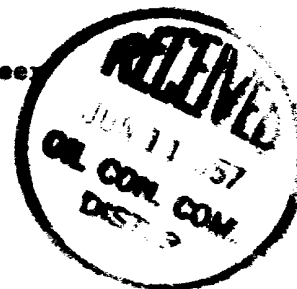
Yours very truly,

ORIGINAL SIGNED E. J. COEL

E. J. Coel
Senior Petroleum Engineer

EJC/gks
Encl.

cc: Emery Arnold
R. L. Hamblin
Phil McGrath



[illegible]

1. The first step in the process is to identify the problem or issue that needs to be addressed. This involves gathering information and understanding the context of the problem.

1. The first of these is the fact that the majority of the population of the United States is of European descent. (b)(6)

2. The second is the fact that the majority of the population of the United States is of European descent. (b)(6)

3. The third is the fact that the majority of the population of the United States is of European descent. (b)(6)

4. The fourth is the fact that the majority of the population of the United States is of European descent. (b)(6)

5. The fifth is the fact that the majority of the population of the United States is of European descent. (b)(6)

6. The sixth is the fact that the majority of the population of the United States is of European descent. (b)(6)

7. The seventh is the fact that the majority of the population of the United States is of European descent. (b)(6)

8. The eighth is the fact that the majority of the population of the United States is of European descent. (b)(6)

9. The ninth is the fact that the majority of the population of the United States is of European descent. (b)(6)

10. The tenth is the fact that the majority of the population of the United States is of European descent. (b)(6)

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific information required.

1. 2019年12月31日，公司应收账款账面余额为1,000,000.00元，坏账准备余额为100,000.00元，计提比例为10%。

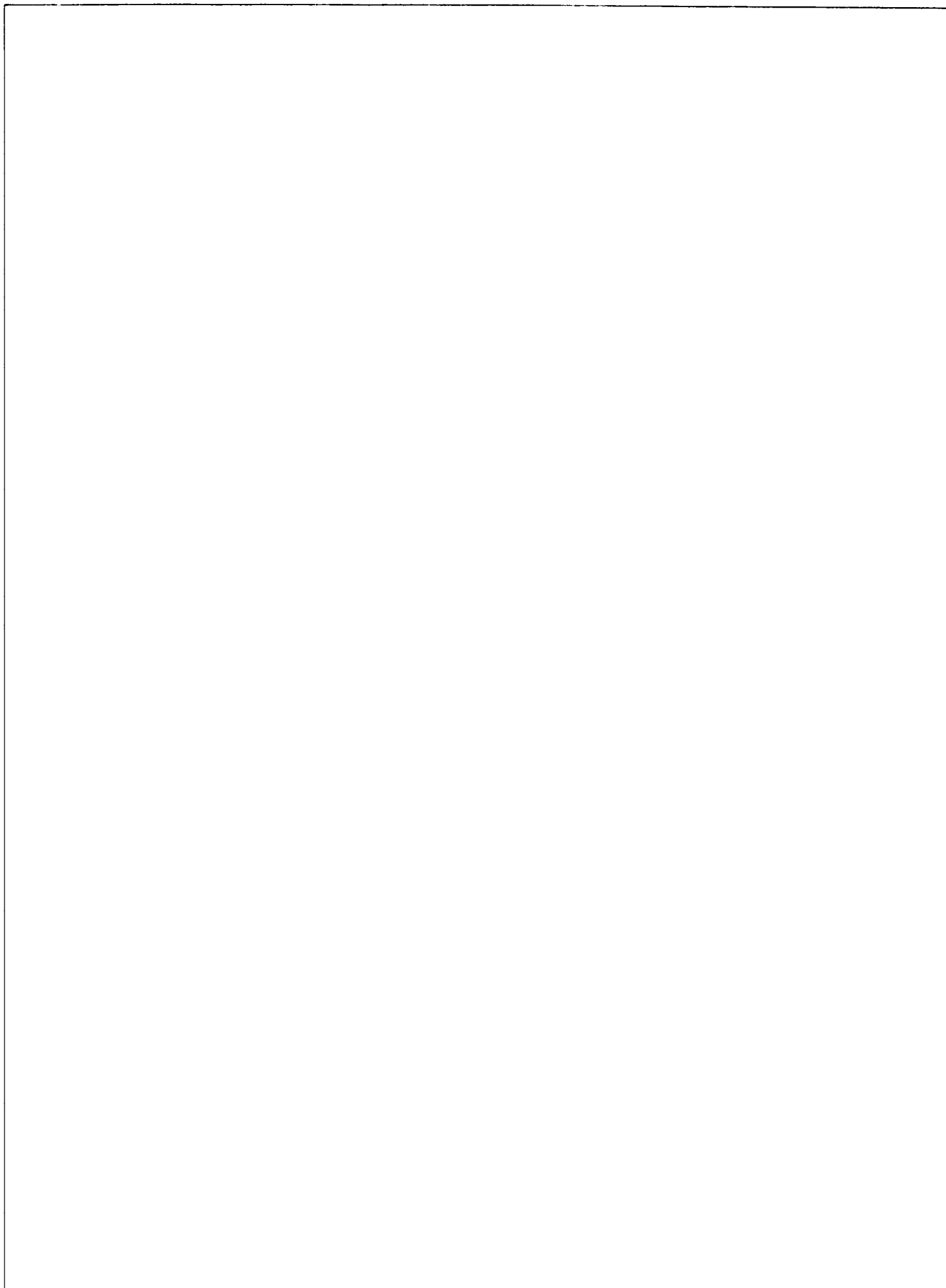
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1. The first step is to identify the problem. This involves understanding the current situation and what needs to be changed.

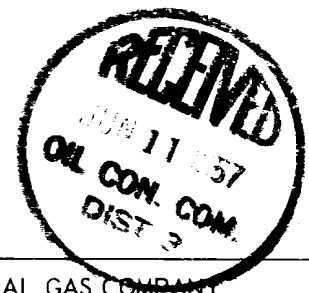
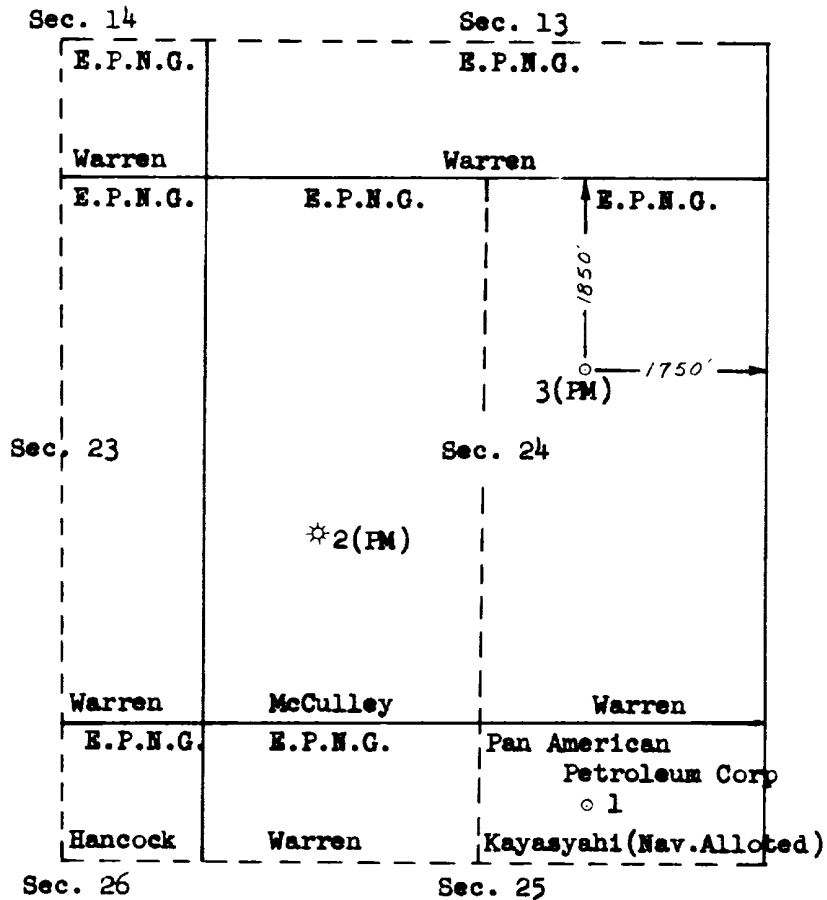




PLAT SHOWING LOCATION OF DUALY COMPLETED
EL PASO NATURAL GAS COMPANY McCULLEY NO. 3 (FM)
AND OFFSET ACREAGE

T-28-N

R-9-W



EL PASO NATURAL GAS COMPANY
EL PASO, TEXAS

SCALE

DATE

No.

DRAWN BY

CHECKED BY

EL PASO NATURAL GAS COMPANY

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

May 22, 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, McCulley # 3, SW 24-28-9, San
Juan County, New Mexico.

Dear Mr. Arnold:

This well was dually completed in the Pictured Cliffs and Mesa Verde formations. A production packer was set at 2444 feet. The Mesa Verde zone was tested May 6, 1957 and the following information was obtained:

SIPC (Pictured Cliffs) - 703 psig
SIPT (Mesa Verde) - 989 psig; shut-in 9 days.

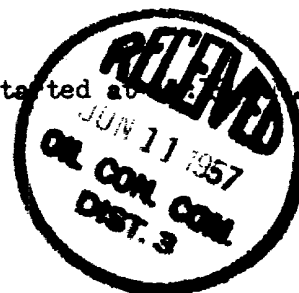
The three hour open flow test through a 3/4" choke started at 12:00 Noon.

| <u>Time</u> | <u>Tubing Choke
Pressure Psig</u> | <u>Casing Pressure
P.C., Psig</u> | <u>Temp °F</u> |
|-------------|---------------------------------------|---------------------------------------|----------------|
| 12:00 | 989 | 703 | |
| 12:15 | 323 | 704 | |
| 12:30 | 282 | 704 | |
| 12:45 | 248 | 704 | |
| 1:00 | 231 | 704 | |
| 3:00 | 172 | 704 | 65 |

The calculated choke volume was 2198 MCF/D. The A.O.F. was 2416 MCF/Day. On May 21, 1957, the Pictured Cliffs zone was tested and the following information was obtained:

SIPC (Pictured Cliffs) - 766 psig
SIPT (Pictured Cliffs) - 766 psig
SIPT (Mesa Verde) - 1028 psig

The three hour open flow test through a 3/4" choke started at



| <u>Time</u> | <u>Casing Choke
Pressure Psig</u> | <u>Tubing Pressure
M.V., Psig</u> | <u>Temp °F</u> |
|-------------|---------------------------------------|---------------------------------------|----------------|
| 11:15 | 766 | 1028 | |
| 11:30 | 256 | 1028 | |
| 11:45 | 227 | 1028 | |
| 12:00 | 214 | 1028 | |
| 12:15 | 207 | 1028 | |
| 2:15 | 179 (183 WPT) | 1028 | 68 |

The calculated choke volume was 2281 MCF/D and the A.O.F. was 2410 MCF/D.
The results indicate that there is no packer leakage.

Very truly yours,

T. B. Grant

T. B. Grant
Gas Engineer

TBG/jla

cc: W. T. Hollis
W. M. Rodgers
E. J. Coel, Jr. (6)
File



EL PASO NATURAL GAS COMPANY
GAS WELL TEST

To: Mr. E. E. Alsup

Date: May 21, 1957

From: Gas Engineering Department

Place: Farmington, New Mexico

DUAL COMPLETIONSubject: Test data on the El Paso Natural Gas Company Well,
McCULLEY # 3, San Juan County, New Mexico.

Tested By Tom Grant

Location Sec. 24 T. 28N R. 9W ,1951'S, 1020'W

| | | | | | |
|------------------------|-------------|-----|------|----|------|
| Shut-in Pressure | P.C. SIPT | 766 | psig | 15 | days |
| | P.C. SIPT | 766 | psig | | |
| | SIPT (M.V.) | - | 1028 | | |

0.750" Choke Volume 2281 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 2410 MCF/D

Working Pressure On tubing 1 $\frac{7}{8}$ " = 183 Psig

Producing Formation Pictured Cliff

Stimulation Method Sand Water Frac

Total Depth Packer @ 2444

Field Wildcat

H₂S Sweet to lead acetate.

cc: D. H. Tucker

W. T. Hollis

W. M. Rodgers

Drilling Department

B. D. Adams

Roland Hamblin

Jack Purvis

C. C. Kennedy

E. J. Coel, Jr.

A. J. Dudenhoeffer

File

Bill Parrish

H. H. Lines

Dean Rittmann

Lewis D. Galloway
L. D. Galloway



EL PASO NATURAL GAS COMPANY
GAS WELL TEST

To: Mr. E. E. Alsup

Date: May 21, 1957

From: Gas Engineering Department

Place: Farmington, New Mexico

DUAL COMPLETIONSubject: Test data on the El Paso Natural Gas Company Well,
McCULLEY # 3, San Juan County, New Mexico.

Tested By: Tom Grant. Witnessed By: E. C. Arnold, New Mexico Oil Conservation Commission.

Location Sec. 24 T. 28N R. 9W 1951'S, 1020'W

Shut-In Pressure P.C. SIPC 715 psig
M.V. SIPT 989 psig (Shut-in 9 days)0.750" Choke Volume 2198 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 2416 MCF/D

Working Pressure On calculated = 345 *** Psia

Producing Formation Mesa Verde

Stimulation Method Sand Water Frac

Total Depth 4770 - c/o - 4735

Field Blanco

H2S Sweet to lead acetate.

cc: D. H. Tucker

W. T. Hollis

W. M. Rodgers

Drilling Department

B. D. Adams

Roland Hamblin

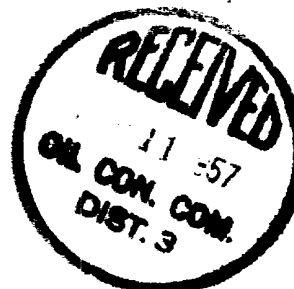
Jack Purvis

C. C. Kennedy

E. J. Coel, Jr. (6)

A. J. Dudenhoefter

File

H. H. Lines
Bill Parrish
Dean RittmannLewis D. Galloway
L. D. Galloway

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE May 21, 1957

| | | | |
|---|----------------------------|-------------------------------------|----------------------------|
| Operator
El Paso Natural Gas Company | | Lease
McCulley # 3 | |
| Location
1951'S, 1020'W, Sec. 24-28-9 | | County
San Juan | State
New Mexico |
| Formation
Pictured Cliff | | Pool
Wildcat | |
| Casing Diameter
7" | Set At Feet
2442 | Tubing Diameter
1 3/4" | Set At Feet
2326 |
| Perforation Depth
2296 | To
2344 | Total Depth
Packer @ 2444 | |
| Stimulation Method
Sand Water Frac | | Flow Through Casing
X | Flow Through Tubing |

| | | | |
|--|-------------------------------------|---------------------------|---|
| Drainage Area
0.750 | Shut-In Constant C
12.365 | | |
| Shut-In Pressure, Gas
766 P.C. | PSIA
778 | Days Shut-In
15 | Shut-In Pressure, Tubing
766 P.C. |
| | | | PSIA
778 |
| Working Pressure, P
179 | PSIA
191 | | Working Pressure, Pw
183 |
| | | | PSIA
195 |
| Temperature, T
68 | | | Perforation Tables
1.017 |
| | 0.850 | | Gravity
655 |

SIPT (M.V.) - 1028 psig

CHOKED VOLUME $Q = C \times P_1 \times F_1 \times F_g \times F_{pv}$

$$Q = 12.365 \times 191 \times .9924 \times .9571 \times 1.017$$

2281

MCF/D

$$Q_{adj} = Q \left(\frac{P_1^2 - P_w^2}{P_1^2 - P_{wf}^2} \right)^n$$

$$Q_{adj} = \left(\frac{605,284}{567,259} \right)^n 1.0670^{.85} \times 2281 = 1.0566 \times 2281$$

Adj 2410 MCF/D

By **Tom Grant**

cc: **E. J. Coel (6)**

L. D. Galloway
L. D. Galloway

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE May 6, 1957

| | | | |
|---|----------------------------|---|---------------------------------|
| Operator
El Paso Natural Gas Company | | Lease
McCulley # 3 | |
| Location
1951'S, 1020'W, Sec. 24-28-9 | | County
San Juan | State
New Mexico |
| Formation
Mesa Verde | | Pool
Blanco Mesa Verde | |
| Casing Diameter
5 1/2 | Set At Feet
4765 | Tubing Diameter
2" | Set At Feet
4662 |
| Perforation From
4538 | To
4724 | Total Depth
4770 - c/o - 4735 | |
| Stimulation Method
Sand Water Frac | | Flow Through Casing | Flow Through Tubing
X |

| | | | |
|---|------------------------------------|--------------------------|---|
| Drake Size, Inches
0.750 | Drake Constant, C
12.365 | | |
| Shut-in Pressure, Casing, PSIG
P.C. 703 | PSIA
715 | Days Shut-in
9 | Shut-in Pressure, Tubing, PSIG
M.V. 989 |
| Flowing Pressure, Casing, PSIG
172 | PSIA
184 | | Working Pressure, Tubing, PSIG
Calculated |
| Temperature, C
65 | 0.750 | | Flow From Test, Gravity
1.018 |
| | | | 660 |

SIPC (P.C.) - 704 psig

DRY VOLUME $Q = C \times R \times F \times F_g \times F_v$

$Q = 12.365 \times 184 \times .9952 \times .9535 \times 1.018$ 2198 MCF/D

$$Q_{PF} = Q \left(\frac{P_1^2 - P_2^2}{P_1^2 - P_A^2} \right)^n$$

$$Q_{PF} = \left(\frac{1,002,001}{882,976} \right)^n 1.1347^{.75} \times 2198 = 1.0994 \times 2198$$

$Q_{PF} = 2416$ MCF/D

Tom Grant

E. C. Arnold, New Mexico Oil Conservation Commission

cc: E. J. Coel, Jr. (6)

L. D. Galloway
L. D. Galloway

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
April 27, 1957, I was called to the location of the El Paso
Natural Gas Company McCulley No. 3 (FM) Well located in the
NW/4 SW/4 of Section 24, Township 28 North, Range 9 West,
N.M.P.M. for the purpose of installing a production packer.
Under my direct supervision a Baker Model "EGJ" production packer
was set at 2444 feet. The production packer was properly set in
accordance with the usual practices and customs of the industry.

Mack M. Mahaffey
Mack M. Mahaffey

Subscribed and sworn to before me, a Notary Public in and
for San Juan County, New Mexico, the 9 day of April,
1957.

Paul D. MacArthur
Notary Public in and for San Juan
County, New Mexico

My commission expires:

2-24-60



PROVIDED FURTHER, That said subject well for dual completion and production shall be equipped in such a way that reservoir pressures may be determined separately for each of the two specified strata, and further, be equipped with all necessary connections required to permit recording meters to be installed and used, at any time, as may be required by the Commission or its representatives, in order that natural gas, oil, or oil and gas from each separate stratum may be accurately measured and the gas-liquid ratios thereof determined, and

PROVIDED FURTHER, That the operator-applicant shall make any and all tests, including segregation tests, packer leakage tests on completion and during the annual deliverability test of the Blanco Mesaverde Gas Pool, but not excluding other tests and/or determinations at any convenient time and in such manner as deemed necessary by the Commission; the original and all subsequent tests shall be witnessed by representatives of the Commission and by representatives of offset operators, if any there be, at their election, and the results of each test properly attested to by the applicant herein and all witnesses, and shall be filed with the Commission within 15 days after completion of such test, and submit a packer setting affidavit within 15 days after completion or whenever the packer is disturbed, and,

PROVIDED FURTHER, That upon the actual dual completion of such subject well, applicant shall submit to the Commission a diagrammatic sketch of the mechanical installation which was actually used to complete and produce the seal between the strata, and a special report of production, gas-liquid ratios and reservoir pressure determination of each producing zone or stratum immediately following completion.

IT IS FURTHER ORDERED, That jurisdiction of this cause is hereby retained by the Commission for such further order or orders as may seem necessary or convenient for the prevention of waste and/or protection of correlative rights; upon failure of applicant to comply with any requirement of this order after proper notice and hearing the Commission may terminate the authority hereby granted and require applicant or its successors and assigns to limit its activities to regular single-zone production in the interests of conservation.

APPROVED at Santa Fe, New Mexico, on this 18th day of June, 1957.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

A. L. PORTER, Jr.
Secretary-Director

SEAL

PROVIDED FURTHER, That said subject well for dual completion and production shall be equipped in such a way that reservoir pressures may be determined separately for each of the two specified strata, and further, be equipped with all necessary connections required to permit recording meters to be installed and used, at any time, as may be required by the Commission or its representatives, in order that natural gas, oil, or gas-liquid and gas from each separate stratum may be accurately measured and the gas-liquid ratios thereof determined, and

PROVIDED FURTHER, That the operator-applicant shall make any and all tests, including segregation tests, packer leakage tests on completion and during the annual deliverability test of the Blanco Mesavieja Gas Pool, but not excluding other tests and/or determinations at any convenient time and in such manner as deemed necessary by the Commission; the original and all subsequent tests shall be witnessed by representatives of the Commission and by representatives of offset operators, if any there be, at their election, and the results of each test properly attested to by the applicant herein and all witnesses, and shall be filed with the Commission within 15 days after completion of such test, and submit a packer setting affidavit within 15 days after completion or whenever the packer is disturbed, and

PROVIDED FURTHER, That upon the actual dual completion of such subject well, applicant shall submit to the Commission a diagrammatic sketch of the mechanical installation which was actually used to complete and produce the seal between the strata, and a special report of production, gas-liquid ratios and reservoir pressure determination of each producing zone or stratum immediately following completion.

IT IS FURTHER ORDERED, That jurisdiction of this cause is hereby retained by the Commission for such further order or orders as may seem necessary or convenient for the prevention of waste and/or protection of correlative rights; upon failure of applicant to comply with any requirement of this order after proper notice and hearing the Commission may terminate the authority hereby granted and require applicant or its successors and assigns to limit its activities to regular single-zone production in the interests of conservation.

APPROVED at Santa Fe, New Mexico, on this 18th day of June, 1937.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

A. L. PORTER, Jr.
Secretary-Director

SEAL