

OIL CONSERVATION COMMISSION
1000 Rio Brazos Rd.
Aztec, New Mexico

OIL CONSERVATION COMMISSION
BOX 871
SANTA FE, NEW MEXICO

DATE 1-18-61

RE: Proposed NSP _____

Proposed NSL _____

Proposed NFO _____

Proposed DC ✓

Gentlemen:

I have examined the application dated 1-11-61

for the EPNG SJU 27-6 54 1-31-27N-5W
Operator Lease and Well No. S-T-R

and my recommendations are as follows:

Approve

Yours very truly,

Emory C. Lueders
OIL CONSERVATION COMMISSION

NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

7-3-58

APPLICATION FOR DUAL COMPLETION

| | | | |
|---------------------------------------------------------------------------|-------------------|------------------------------------|---------------------------------|
| Field Name Blanco Mesa Verde & South Blanco Pictured Cliffs | | County Rio Arriba | Date January 11, 1961 |
| Operator El Paso Natural Gas Company | | Lease San Juan 27-5 Unit | Well No. 54 (FM) |
| Location of Well L | Unit 11 | Section 27N | Range 21 |

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-618**; Operator, Lease, and Well No.:

El Paso Natural Gas Company San Juan 27-5 Unit No. 34 (FM)

| 3. The following facts are submitted: | Upper Zone | Lower Zone |
|------------------------------------------------------|------------------------|--------------------------------------------------------------|
| a. Name of reservoir | Pictured Cliffs | Mesa Verde |
| b. Top and Bottom of Pay Section (Perforations) | 3160-3256 | 4886-4990 (Cliff House) 5412-5490 (Point Lookout) |
| c. Type of production (Oil or Gas) | Gas | Gas |
| d. Method of Production (Flowing or Artificial Lift) | Flowing | Flowing |

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.

Lorrey, et al Operating Account, A. F. Holland, Room 213, 616 E. Central Avenue, Albuquerque,

New Mexico

Occidental Oil & Gas Company, c/o Dave Harris, 8255 Beverly Blvd., Los Angeles 48, California

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 **January 11, 1961**.

CERTIFICATE: I, the undersigned, state that I am the **Division Petroleum Engr.** of the **El Paso Natural Gas Co.** (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.

STATE OF NEW MEXICO)
)
COUNTY OF SAN JUAN)

I, A. T. Fry, being first duly sworn upon my oath
depose and say as follows:

I am an employee of Guiberson Corporation, and
that on November 25, 1960, I was called to the location of the
El Paso Natural Gas Company San Juan 27-5 Unit No. 54 (PM) Well
located in the NWSW/4 of Section 31, Township 27 North, Range 5
West, N.M.P.M., for advisory service in connection with installation
of a production packer. In my presence, a Guiberson "Shorty"
Production Packer was set in this well at 3392 feet in accordance
with the usual practices and customs of the industry.

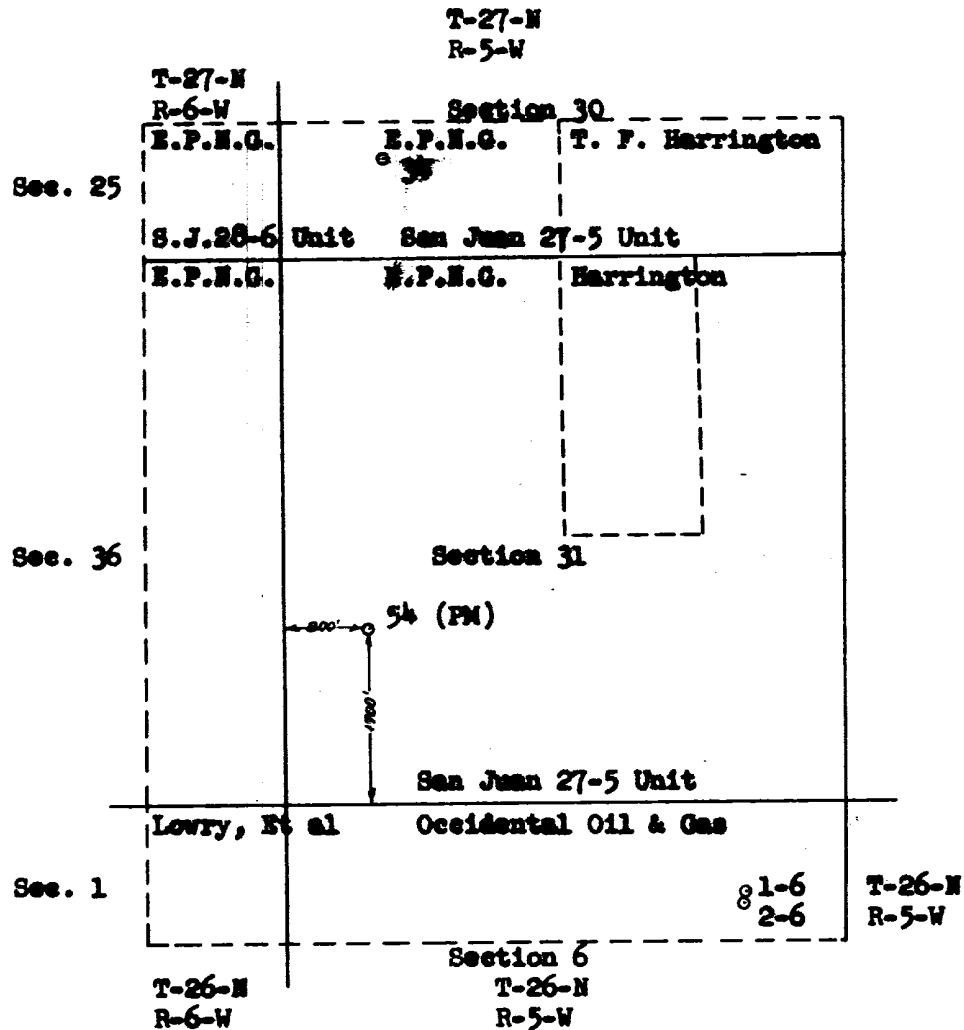
A. T. Fry

Subscribed and sworn to before me this 13th day of
January, 1961.

Mona G. Luises
Notary Public in and for San Juan County,
New Mexico

My commission expires October 5, 1964.

**PLAT SHOWING LOCATION OF DUALY COMPLETED
El Paso Natural Gas Co. San Juan 27-5 Unit No. 54 (PM)
and Offset Acreage**



EL PASO NATURAL GAS COMPANY
EL PASO, TEXAS

SCALE

DATE

No.

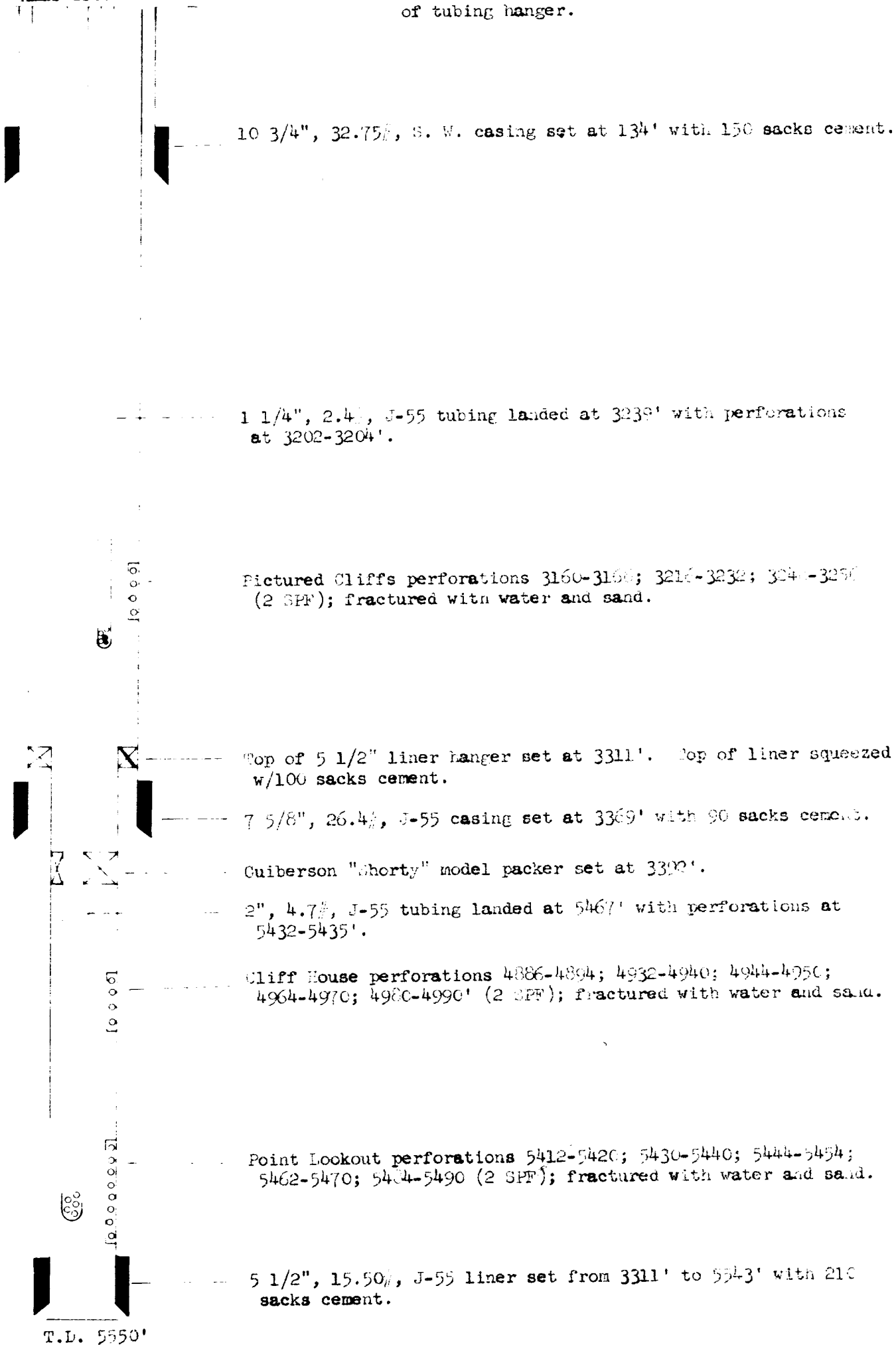
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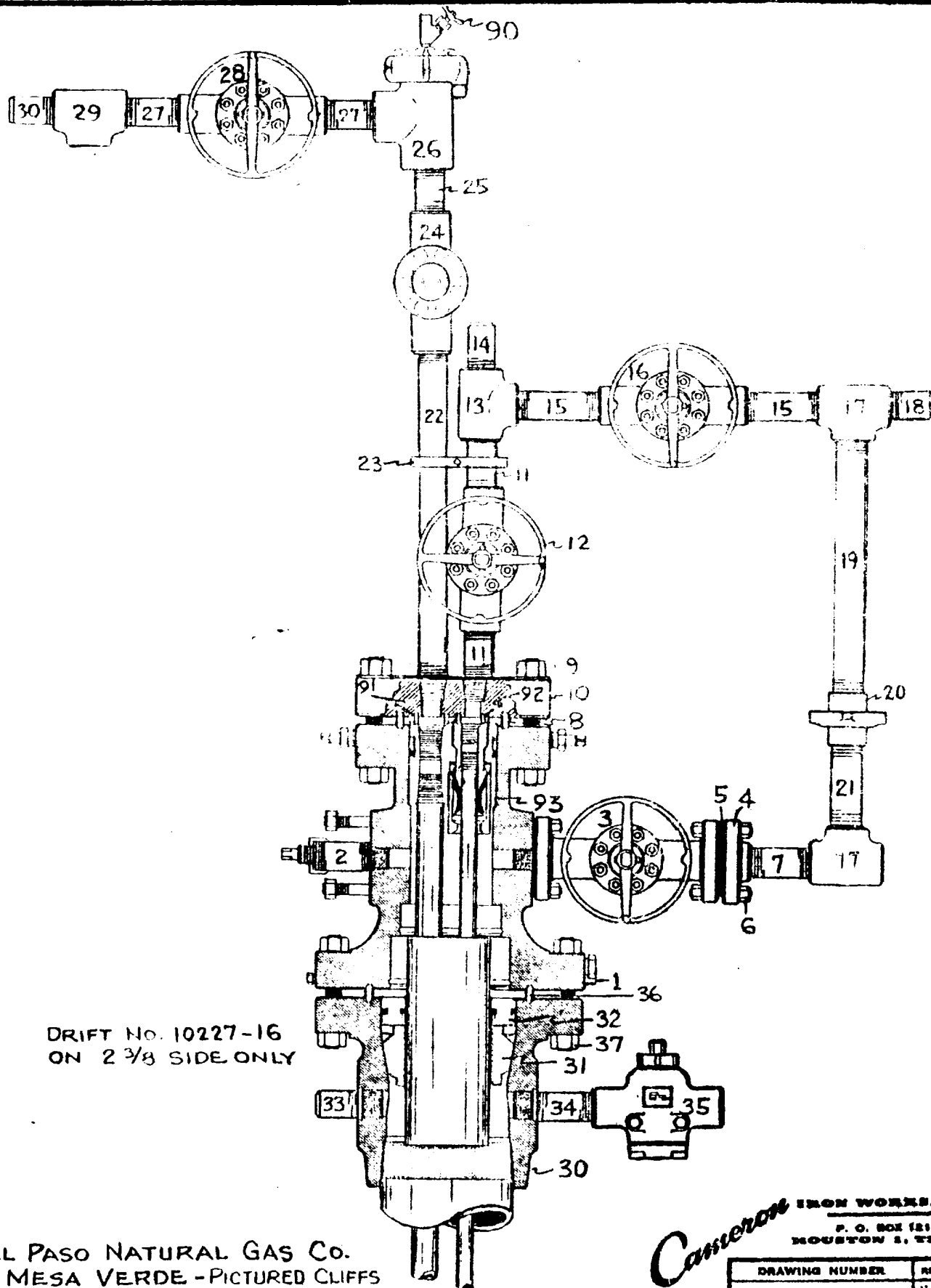
CHECKED BY

SCHEMATIC DIAGRAM OF DUALY COMPLETED
El Paso Natural Gas Co. San Juan 27-5 Unit No. 54 (FM)
SW/4 Section 31, T-27-N, R-5-W

Dual String
Xmas Tree

Zero reference point 10.0' above top flange
of tubing hanger.





Cameron IRON WORKS, INC.
P. O. BOX 1212
HOUSTON 1, TEXAS

| DRAWING NUMBER | REVISION |
|----------------|----------|
| 916015 | "A" |

DRAWN BY E. H. DATE 3-17-59 WORKING PRESSURE 2,000 # DRIFT NO. _____

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE December 2, 1960

DUAL COMPLETION

Operator

El Paso Natural Gas Company

Lease

San Juan 27-5 No. 54 (MV)

County

Rio Arriba

State

New Mexico

1700'S, 800'W, 31-27N-5W

Pool

Blanco MV

Mesa Verde

Shut-In Diameter

Set At Feet

5-1/2

5543

Tubing Diameter

Set At Feet

2-3/8

5457

Total Depth

Shut-In

5550 c/o 5515

11-25-60

Flow Through Casing

Flow Through Tubing

X

4886

5490

Standard Method

Sand/Water Frac.

Choke Size, inches

Choke Constant, C

.75

12.369

Guiberson "Shorty" Pkr. at 3392

Shut-In Pressure, psig

Flow, GPM

PSIA

Days Shut-In

Shut-In Pressure, Tubing

PSIG 12 PSIA

(PC)

932

944

7

(MV)

1056

1068

Flowing Pressure, P

Flow, GPM

PSIA

Working Pressure, Pw

PSIG 12 PSIA

(MV)

226

238

(Calc.)

472

Temperature

Epp. From Tables

Gravity

63

.9971

.75

1.023

.650

Eg .9608

Initial SIPT (PC) = 934 psig

Final SIPT (PC) = 930 psig

Q = C x P₁ x P₂ x P₃ x P₄

Q = (12.369)(238)(.9971)(.9608)(1.023)

2884

MCF/D

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

$$\left(\frac{1,140,624}{17,840} \right)^n (1.2427)^{.75} (2884) = (1.1772)(2884)$$

Act 3395

MCF/D

D. E. Mortenson

W. D. Dawson

Calculated by W. D. Dawson

Lewis D. Galloway
Lewis D. Galloway

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE December 27, 1960

| | | | |
|--------------------------------------------------|-----------------------------|------------------------------------------|-----------------------------|
| Operator El Paso Natural Gas Company | | Lease San Juan 27-5 No. 54(PC) | |
| Location 1700'S, 800'W, Sec. 31-27N-5W | | County Rio Arriba | State New Mexico |
| Formation Pictured Cliffs | | Pool South Blanco PC | |
| Casing: Diameter 7-5/8 | Set At: Feet 3369 | Tubing: Diameter 1-1/4 | Set At: Feet 3229 |
| Pay Zone: From 3160 | To 3256 | Total Depth: 5550 C/O 5515 | Shut In 11-25-60 |
| Stimulation Method Sand/Water Pres. | | Flow Through Casing X | Flow Through Tubing |

| | | | | | |
|-----------------------------------------------|-------------------------------|------------------------------------|----------------------------------------------|----------------------------------------|-----------------|
| Choke Size, Inches .75 | | Choke Constant: C 12.365 | | Guiberson "Shorty" Pkr. at 3392 | |
| Shut-In Pressure, Casing, (PC) 1036 | PSIG - 12 PSIA 1048 | Days Shut-In 32 | Shut-In Pressure, Tubing (PC) 1039 | PSIG - 12 PSIA 1051 | |
| Flowing Pressure: P 246 | PSIG - 12 PSIA 258 | | Working Pressure: Pw 269 | PSIG - 12 PSIA 281 | |
| Temperature: 60 °F | n 1.0000 | | Fpv (From Tables) 1.025 | Gravity .651 | Fg .9608 |

Initial SIPT (MV) = 1079 psig

Final SIPT (MV) = 1083 psig

CHOKE VOLUME = Q C x P_i x F_i x F_g x F_{pv}

$$Q (12.365)(258)(1.0000)(.9608)(1.025) = \underline{\underline{3142}} \text{ MCF/D}$$

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

$$Aof = \left(\frac{1,104,601}{1,025,640} \right)^n = (1.0769)^{.85} (3142) = (1.0650)(3142)$$

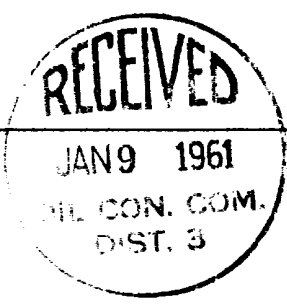
$$Aof = \underline{\underline{3346}} \text{ MCF/D}$$

TESTED BY D. E. Mortenson

WITNESSED BY _____

Calculated by W. D. Dawson

Lewis D. Galloway
Lewis D. Galloway

| | | | | | | | | | | | | | | | | | | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|----------|--|------|--|----------|--|-------------|--|-------------|--|-------------------|--|----------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------|
| NUMBER OF COPIES RECEIVED <table border="1" style="width:100%; border-collapse: collapse;"> <tr><td colspan="2">DISTRIBUTION</td></tr> <tr><td>SANTA FE</td><td></td></tr> <tr><td>FILE</td><td></td></tr> <tr><td>U.S.G.S.</td><td></td></tr> <tr><td>LAND OFFICE</td><td></td></tr> <tr><td>TRANSPORTER</td><td></td></tr> <tr><td>PRODUCTION OFFICE</td><td></td></tr> <tr><td>OPERATOR</td><td></td></tr> </table> | | DISTRIBUTION | | SANTA FE | | FILE | | U.S.G.S. | | LAND OFFICE | | TRANSPORTER | | PRODUCTION OFFICE | | OPERATOR | | NEW MEXICO OIL CONSERVATION COMMISSION SANTA FE, NEW MEXICO CERTIFICATE OF COMPLIANCE AND AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS | | FORM C-110 (Rev. 7-60) |
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| PRODUCTION OFFICE | | | | | | | | | | | | | | | | | | | | |
| OPERATOR | | | | | | | | | | | | | | | | | | | | |
| FILE THE ORIGINAL AND 4 COPIES WITH THE APPROPRIATE OFFICE | | | | | | | | | | | | | | | | | | | | |
| Company or Operator El Paso Natural Gas Company | | Lease San Juan 27-5 Unit | Well No. 54(PM) | | | | | | | | | | | | | | | | | |
| Unit Letter L | Section 31 | Township 27-N | Range 5-W | | | | | | | | | | | | | | | | | |
| Pool South Blanco Pictured Cliffs | | Kind of Lease (State, Fed, Fee) Federal | | | | | | | | | | | | | | | | | | |
| If well produces oil or condensate give location of tanks | | Unit Letter | Section | | | | | | | | | | | | | | | | | |
| Authorized transporter of oil <input type="checkbox"/> or condensate <input checked="" type="checkbox"/> | | Address (give address to which approved copy of this form is to be sent) | | | | | | | | | | | | | | | | | | |
| El Paso Natural Gas Products Company | | | | | | | | | | | | | | | | | | | | |
| Is Gas Actually Connected? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | | | | | | | | | | | | | | | | | | | | |
| Authorized transporter of casing head gas <input type="checkbox"/> or dry gas <input checked="" type="checkbox"/> | | Date Connected | Address (give address to which approved copy of this form is to be sent) | | | | | | | | | | | | | | | | | |
| El Paso Natural Gas Company | | | Box 990, Farmington, New Mexico | | | | | | | | | | | | | | | | | |
| If gas is not being sold, give reasons and also explain its present disposition: W/O Pipeline | | | | | | | | | | | | | | | | | | | | |
| REASON(S) FOR FILING (please check proper box) | | | | | | | | | | | | | | | | | | | | |
| New Well <input checked="" type="checkbox"/> Change in Ownership <input type="checkbox"/> Change in Transporter (check one) Other (explain below) Oil <input type="checkbox"/> Dry Gas <input type="checkbox"/> Casing head gas . <input type="checkbox"/> Condensate.. <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | |
| Remarks | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | | | |
| The undersigned certifies that the Rules and Regulations of the Oil Conservation Commission have been complied with. | | | | | | | | | | | | | | | | | | | | |
| Executed this the 4th day of January , 19 61 . | | | | | | | | | | | | | | | | | | | | |
| OIL CONSERVATION COMMISSION Approved by Original Signed Emery C. Arnold Title Supervisor Dist. # 3 Date FEB 15 1961 | | By Original Signed By: D H. Oheim Title Petroleum Engineer Company El Paso Natural Gas Company Address Box 990, Farmington, New Mexico | | | | | | | | | | | | | | | | | | |