

NEW MEXICO OIL CONSERVATION COMMISSION  
MULTI-POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122  
Revised 12-1-55

|                                                           |                |                |                                  |             |                            |                                                                    |                |  |
|-----------------------------------------------------------|----------------|----------------|----------------------------------|-------------|----------------------------|--------------------------------------------------------------------|----------------|--|
| Pool <u>Blanch</u><br><b>Undesignated Pictured Cliffs</b> |                |                | Formation <u>Pictured Cliffs</u> |             |                            | County <u>San Juan</u>                                             |                |  |
| Initial <u>I</u>                                          |                | Annual         |                                  | Special     |                            | Date of Test <u>7-13-66</u>                                        |                |  |
| Company <u>Tenneco Oil Co.</u>                            |                |                | Lease <u>Florance</u>            |             |                            | Well No. <u>96</u>                                                 |                |  |
| Unit                                                      | Sec. <u>24</u> | Twp. <u>29</u> | Range <u>9</u>                   |             | Purchaser                  |                                                                    |                |  |
| Casing <u>3.5</u>                                         | Wt.            | I.D.           | Set at <u>3080</u>               |             | Perf. <u>2927</u>          |                                                                    | To <u>2979</u> |  |
| Tubing                                                    | Wt.            | I.D.           | Set at                           |             | Perf.                      |                                                                    | To             |  |
| Gas Pay:                                                  | From           | To             | L                                | G           | GL                         | Bar. Press.                                                        |                |  |
|                                                           |                |                |                                  | <u>.650</u> | <u>1903</u>                | <u>12.0</u>                                                        |                |  |
| Producing Through: <u>I</u>                               |                | Casing         |                                  | Tubing      |                            | Type Well - Single - Braden head - G.G. or G.O. Dual <u>Single</u> |                |  |
| Date of Completion                                        |                | Packer         |                                  |             | Reservoir Temp. <u>102</u> |                                                                    |                |  |

OBSERVED DATA

| Tested Through: Prover <input type="checkbox"/> Choke <input checked="" type="checkbox"/> Meter <input type="checkbox"/> |                      |                        |              |                      |           |              |           | Type of Taps |           |                      |
|--------------------------------------------------------------------------------------------------------------------------|----------------------|------------------------|--------------|----------------------|-----------|--------------|-----------|--------------|-----------|----------------------|
| FLOW DATA                                                                                                                |                      |                        |              |                      |           | TUBING DATA  |           | CASING DATA  |           | DURATION OF FLOW HR. |
| No.                                                                                                                      | (Prover) (Line) Size | (Choke) (Orifice) Size | Press. psig. | Diff. h <sub>w</sub> | Temp. °F. | Press. psig. | Temp. °F. | Press. psig. | Temp. °F. |                      |
| 1.                                                                                                                       |                      | <u>3/4</u>             |              |                      |           |              |           | <u>889</u>   |           | <u>3 Hrs</u>         |
| 2.                                                                                                                       |                      |                        |              |                      |           |              |           | <u>28</u>    | <u>60</u> |                      |
| 3.                                                                                                                       |                      |                        |              |                      |           |              |           |              |           |                      |
| 4.                                                                                                                       |                      |                        |              |                      |           |              |           |              |           |                      |
| 5.                                                                                                                       |                      |                        |              |                      |           |              |           |              |           |                      |

FLOW CALCULATIONS

| No. | Coefficient (24 Hour) | $\sqrt{h_w p_f}$ | Pressure psia | Flow Temp. Factor F <sub>t</sub> | Gravity Factor F <sub>g</sub> | Compress. Factor F <sub>pv</sub> | Rate of Flow Q-MCF P D @ 15,025 psia |
|-----|-----------------------|------------------|---------------|----------------------------------|-------------------------------|----------------------------------|--------------------------------------|
| 1.  | <u>12.3650</u>        |                  | <u>40</u>     | <u>1.000</u>                     | <u>.9608</u>                  |                                  | <u>470</u>                           |
| 2.  |                       |                  |               |                                  |                               |                                  |                                      |
| 3.  |                       |                  |               |                                  |                               |                                  |                                      |
| 4.  |                       |                  |               |                                  |                               |                                  |                                      |
| 5.  |                       |                  |               |                                  |                               |                                  |                                      |

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio \_\_\_\_\_ cf/bbl.      Specific Gravity Separator Gas \_\_\_\_\_

Gravity of Liquid Hydrocarbons \_\_\_\_\_ deg.      Specific Gravity Flowing Fluid \_\_\_\_\_

F<sub>c</sub> 3.055 (1-e<sup>-S</sup>) 0.129      P<sub>c</sub> 901      P<sub>c</sub><sup>2</sup> 811801

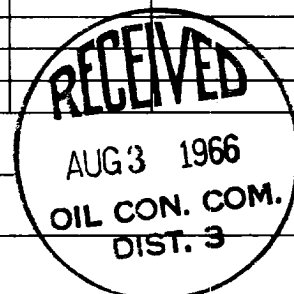
| No. | $\frac{P_w}{P_t}$ psia | P <sub>t</sub> <sup>2</sup> | F <sub>c</sub> Q | (F <sub>c</sub> Q) <sup>2</sup> | (F <sub>c</sub> Q) <sup>2</sup> (1-e <sup>-S</sup> ) | P <sub>w</sub> <sup>2</sup> | P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup> | Cal P <sub>w</sub> | $\frac{P_w}{P_c}$ |
|-----|------------------------|-----------------------------|------------------|---------------------------------|------------------------------------------------------|-----------------------------|-----------------------------------------------------------|--------------------|-------------------|
| 1.  | <u>40</u>              | <u>1600</u>                 | <u>1436</u>      | <u>2062</u>                     | <u>266</u>                                           | <u>1866</u>                 | <u>809935</u>                                             |                    |                   |
| 2.  |                        |                             |                  |                                 |                                                      |                             |                                                           |                    |                   |
| 3.  |                        |                             |                  |                                 |                                                      |                             |                                                           |                    |                   |
| 4.  |                        |                             |                  |                                 |                                                      |                             |                                                           |                    |                   |
| 5.  |                        |                             |                  |                                 |                                                      |                             |                                                           |                    |                   |

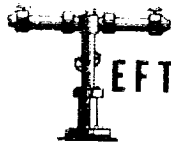
ABSOLUTE POTENTIAL: 471 MCFPD; n .85 1.0020

COMPANY Tenneco Oil Company WITNESSED \_\_\_\_\_

ADDRESS P. O. Box 1714, Durango, Colorado COMPANY \_\_\_\_\_

AGENT AND TITLE J. E. Massey J. E. Massey  
District Production Engineer





EFTELLER, INC.

reservoir engineering data  
MIDLAND, TEXAS

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File 2-1998-AOF

Company TENNECO OIL COMPANY Lease FLORANCE Well No. 96  
Field UNDESIGNATED PICTURED CLIFFS County SAN JUAN State NEW MEXICO  
Formation PICTURED CLIFFS Test Date JULY 13, 1966

Status of Well Shut in 7 days

| DEPTH<br>Feet | PRESSURE<br>Psig | GRADIENT<br>Psi/Ft. |
|---------------|------------------|---------------------|
| 0             | 889              |                     |
| 1000          | 914              | 0.025               |
| 2553          | 950              | 0.023               |
| 2753          | 956              | 0.030               |
| 2953          | 962              | 0.030               |

Datum Pressure Psig

PRESSURE POUNDS PER SQUARE INCH GAUGE

1300  
1200  
1100  
1000  
900  
800  
700  
600  
500

0 500 1000 1500 2000 2500 3000 3500

Elev. Datum Ft  
Total Depth Perf. 2927-2979 Ft  
Tubing in. to Ft  
Casing 3 1/2 in. to 3080 Ft  
Casing Press. 889 Tubing Press  
Oil Level None Water Level  
Temperature 102 °F at 2953 Ft  
Element No. 15065N Range 0-2100  
Last Test Date  
Pressure Last Test Date Psi  
B.H.P. Change Psi

