

Int.  
Deliverability

NEW MEXICO OIL CONSERVATION COMMISSION  
WELL DELIVERABILITY TEST REPORT FOR 19 77

Form C122-A  
Revised 1-1-68

|                     |                       |                         |                    |
|---------------------|-----------------------|-------------------------|--------------------|
| POOL NAME<br>Blanco | POOL SLOPE<br>n = .75 | FORMATION<br>Mesa Verde | COUNTY<br>San Juan |
|---------------------|-----------------------|-------------------------|--------------------|

Meter No. 89639-01

|                                             |                                        |                                        |                                               |                                |                                   |
|---------------------------------------------|----------------------------------------|----------------------------------------|-----------------------------------------------|--------------------------------|-----------------------------------|
| COMPANY<br>Union Texas Petroleum            |                                        |                                        | WELL NAME AND NUMBER<br>Prichard Federal #1-A |                                |                                   |
| UNIT LETTER<br>0                            | SECTION<br>6                           | TOWNSHIP<br>29N                        | RANGE<br>8W                                   | PURCHASING PIPELINE<br>El Paso |                                   |
| CASING O.D. - INCHES<br>7.000<br>4.500      | CASING I.D. - INCHES<br>6.456<br>4.052 | SEALING DEPTH - FEET<br>3310<br>5601   | TUBING O.D. - INCHES<br>2.375                 | TUBING I.D. - INCHES<br>1.995  | TOP - TUBING PERF. - FEET<br>5529 |
| GAS PAY ZONE<br>FROM 4647 TO 5521           |                                        | WELL PRODUCING THRU<br>CASING TUBING X |                                               | GAS GRAVITY<br>.716            | GRAVITY X LENGTH<br>3959          |
| DATE OF FLOW TEST<br>FROM 6-4-77 TO 6-12-77 |                                        |                                        | DATE SHUT-IN PRESSURE MEASURED<br>4-14-77     |                                |                                   |

PRESSURE DATA - ALL PRESSURES IN PSIA

|                                           |                                               |                                          |                                          |                                               |                                                 |                                                              |
|-------------------------------------------|-----------------------------------------------|------------------------------------------|------------------------------------------|-----------------------------------------------|-------------------------------------------------|--------------------------------------------------------------|
| (a) Flowing Casing Pressure (DWt)         | (b) Flowing Tubing Pressure (DWt)             | (c) Flowing Meter Pressure (DWt)         | (d) Flow Chart Static Reading            | (e) Meter Error (Item c - Item d)             | (f) Friction Loss (a-c) or (b-c)                | (g) Average Meter Pressure (Integr.)<br>218                  |
| (h) Corrected Meter Pressure (g+e)<br>218 | (i) Avg. Wellhead Press. $P_f = (h+f)$<br>218 | (j) Shut-in Casing Pressure (DWt)<br>659 | (k) Shut-in Tubing Pressure (DWt)<br>650 | (l) $P_c$ = higher value of (j) or (k)<br>659 | (m) Del. Pressure $P_d = \frac{80}{527} \% P_c$ | (n) Separator or Dehydrator Pr. (DWt) for critical flow only |

FLOW RATE CORRECTION (METER ERROR)

|                                   |                                                            |                                                       |                                    |
|-----------------------------------|------------------------------------------------------------|-------------------------------------------------------|------------------------------------|
| Integrated Volume - MCF/D<br>1595 | Quotient of $\frac{\text{Item c}}{\text{Item d}}$<br>----- | $\sqrt{\frac{\text{Item c}}{\text{Item d}}}$<br>----- | Corrected Volume<br>Q = 1595 MCF/D |
|-----------------------------------|------------------------------------------------------------|-------------------------------------------------------|------------------------------------|

WORKING PRESSURE CALCULATION

|                       |                                 |                                                 |                   |                                  |                             |
|-----------------------|---------------------------------|-------------------------------------------------|-------------------|----------------------------------|-----------------------------|
| $(1-e^{-S})$<br>0.250 | $(F_c Q_m)^2 (1000)$<br>224,886 | $R^2 = (1-e^{-S}) (F_c Q_m)^2 (1000)$<br>56,221 | $P_1^2$<br>47,524 | $P_w^2 = P_1^2 + R^2$<br>103,745 | $P_w = \sqrt{P_w^2}$<br>322 |
|-----------------------|---------------------------------|-------------------------------------------------|-------------------|----------------------------------|-----------------------------|

DELIVERABILITY CALCULATION

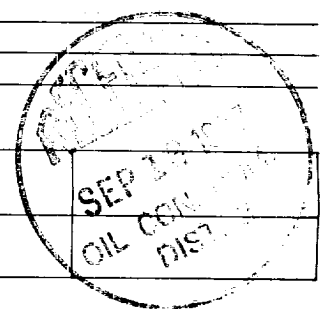
|                                                                     |                                                    |         |               |
|---------------------------------------------------------------------|----------------------------------------------------|---------|---------------|
| $D = Q \left[ \frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = 1595$ | $\left[ \frac{156,552}{330,536} \right]^n = .4736$ | $.5709$ | $= 911$ MCF/D |
|---------------------------------------------------------------------|----------------------------------------------------|---------|---------------|

REMARKS: Initial test only  
4.500 10.5 # liner set from 3310 to 5601

SUMMARY

Item h 218 Psia  
P<sub>c</sub> 659 Psia  
Q 1595 MCF/D  
P<sub>w</sub> 322 Psia  
P<sub>d</sub> 527 Psia  
D 911 MCF/D

Company Union Texas Petroleum  
By Elledge Consulting & Prod. Co.  
Title Agent  
Witnessed By  
Company



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# NEW MEXICO OIL CONSERVATION COMMISSION

WALL DEPARTMENT OF REVENUE

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