

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

Form C122-A
 Revised 1-1-66

| | | | |
|----------------------------|------------------------------|-----------------------------------|---------------------------|
| POOL NAME Elmore | POOL SLOPE n = .85 | FORMATION Flinted Gills | COUNTY San Juan |
|----------------------------|------------------------------|-----------------------------------|---------------------------|

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|---|--------------------------------------|---|---|--------------------------------------|--|
| COMPANY D.J. Simmons et al | | | WELL NAME AND NUMBER Elmore #10 | | |
| UNIT LETTER I | SECTION 21 | TOWNSHIP 29 | RANGE 9 | PURCHASING PIPELINE EPSC | |
| CASING O.D. - INCHES 4.500 | CASING I.D. - INCHES 4.090 | SET AT DEPTH - FEET 2151 | TUBING O.D. - INCHES 1.900 | TUBING I.D. - INCHES 1.620 | TOP - TUBING PERF. - FEET 2010 |
| GAS PAY ZONE FROM 2002 TO 2106 | | WELL PRODUCING THRU CASING TUBING I | | GAS GRAVITY .695 | GRAVITY X LENGTH 1390 |
| DATE OF FLOW TEST FROM 3-9-67 TO 3-17-67 | | | DATE SHUT-IN PRESSURE MEASURED 12-24-66 | | |

PRESSURE DATA - ALL PRESSURES IN PSIA

| | | | | | | |
|--|--|---|-----------------------------------|--|--|--|
| (a) Flowing Casing Pressure (DWt) 233 | (b) Flowing Tubing Pressure (DWt) 233 | (c) Flowing Meter Pressure (DWt) 864 | (d) Flow Chart Static Reading | (e) Meter Error (Item c - Item d) 864 | (f) Friction Loss (a - c) or (b - c) 692 | (g) Average Meter Pressure (Integr.) 233 |
| (h) Corrected Meter Pressure (g + e) 233 | (i) Avg. Wellhead Press. $P_t = (h + f)$ 233 | (j) Shut-in Casing Pressure (DWt) 864 | (k) Shut-in Tubing Pressure (DWt) | (l) P_c = higher value of (j) or (k) 864 | (m) Del. Pressure $P_d = .80 \% P_c$ 692 | (n) Separator or Dehydrator Pr. (DWt) for critical flow only |

FLOW RATE CORRECTION (METER ERROR)

| | | | |
|---|---|--|--|
| Integrated Volume - MCF/D 209 | Quotient of $\frac{\text{Item c}}{\text{Item d}}$ | $\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ | Corrected Volume Q = 209 MCF/D |
|---|---|--|--|

$R^2 = 16.46$

WORKING PRESSURE CALCULATION

| | | | | | |
|-------------------------------|--------------------------------------|--|-------------------------|---------------------------------------|------------------------------------|
| $(1 - e^{-s})$.892 | $(F_c Q_m)^2 (1000)$ 11834 | $R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$ 1009 | P_t^2 54209 | $P_w^2 = P_t^2 + R^2$ 55378 | $P_w = \sqrt{P_w^2}$ 235 |
|-------------------------------|--------------------------------------|--|-------------------------|---------------------------------------|------------------------------------|

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \underline{209} \left[\left(\frac{269025}{692118} \right)^n \left(\frac{.3092}{.4024} \right)^n \right] = \underline{94} \text{ MCF/D}$$

REMARKS:

SUMMARY

Item h **233** Psia
 P_c **864** Psia
 Q **209** MCF/D
 P_w **235** Psia
 P_d **692** Psia
 D **94** MCF/D

Company D.J. Simmons et al
 By Ashton B. Green, Jr.
 Title Supt.
 Witnessed By _____
 Company _____



