# NEW MEXICO OIL CONSERVATION COMMISSION

## INITIAL WELL DELIVERABILITY TEST REPORT FOR 19 70

Form C122-A
Revised 1-1-66

| POOL NAME | POOL SLOPE | FORMATION | COUNTY |
|---|---|---|---|
| Basin | n= .75 | Dakota | San Juan |

| COMPANY | | | WELL NAME AND NUMBER | | |
|---|---|---|---|---|---|
| Aztec Oil & Gas Company | | | State 572 #1 | | |
| UNIT LETTER | SECTION | TOWNSHIP | RANGE | PURCHASING PIPELINE | |
| M | 2 | 26 North | 11 West | El Paso Natural Gas Company | |
| CASING O.D. - INCHES | CASING I.D - INCHES | SET AT DEPTH - FEET | TUBING O.D - INCHES | TUBING I.D. - INCHES | TOP - TUBING PERF. - FEET |
| 4.50 | 4.09 | 6591 | 2.375 | 1.995 | 6455 |
| GAS PAY ZONE | | WELL PRODUCING THRU | | GAS GRAVITY | GRAVITY X LENGTH |
| FROM 6442 TO 6465 | | CASING | TUBING X | .728 | 4699 |
| DATE OF FLOW TEST | | | DATE SHUT-IN PRESSURE MEASURED | | |
| FROM 2-16-70 TO 2-24-70 | | | 9-8-70 | | |

### 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.) |
|---|---|---|---|---|---|---|
| ----- | ----- | ----- | ----- | ----- | ----- | 373 |
| **(h) Corrected Meter Pressure (g + e)** | **(i) Avg. Wellhead Press. $P_t$ = (h+f)** | **(j) Shut-in Casing Pressure (DWt)** | **(k) Shut-in Tubing Pressure (DWt)** | **(l) $P_c$ = higher value of (j) or (k)** | **(m) Del. Pressure** | **(n) Separator or Dehydrator Pr. (DWt) for critical flow only** |
| ----- 373 | 373 | 1640 | 1640 | 1640 | $P_d$ = 50 %$P_c$ 820 | |

### FLOW RATE CORRECTION (METER ERROR)

| Integrated Volume - MCF/D | Quotient of $\frac{\text{Item c}}{\text{Item d}}$ | $\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ | Corrected Volume |
|---|---|---|---|
| 118 | | | Q = 118 MCF/D |

### WORKING PRESSURE CALCULATION

| $(1-e^{-s})$ | $(F_c\ Q_m)^2\ (1000)$ | $R^2 = (1-e^{-s})\ (F_c\ Q_m)^2\ (1000)$ | $P_t^2$ | $P_w^2 = P_t^2 + R^2$ | $P_w = \sqrt{P_w^2}$ |
|---|---|---|---|---|---|
| .289 | 1230 | 355 | 139,129 | 139,484 | 373 |

### DELIVERABILITY CALCULATION

$$D = Q\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2}\right]^n = 118 \left[\left(\frac{2,017,200}{2,550,116}\right)^{.7910} = 8388\right] = 99 \text{ MCF/D}$$

REMARKS:

RECEIVED
APR 6 1970
OIL CON. COM.
DIST. 3

OK

SUMMARY

| | | |
|---|---|---|
| Item h | ---- 373 | Psia |
| $P_c$ | 1640 | Psia |
| Q | 118 | MCF/D |
| $P_w$ | 373 | Psia |
| $P_d$ | 820 | Psia |
| D | 99 | MCF/D |

Company Aztec Oil & Gas Company
By J. L. Wathen
Title District Superintendent
Witnessed By
Company

April 3, 1970