

~~MICHIGAN TRUSTS~~  
OPEN FLOW TEST DATA

DATE August 5, 1958

|                                                     |                              |  |                                                      |                                      |                            |
|-----------------------------------------------------|------------------------------|--|------------------------------------------------------|--------------------------------------|----------------------------|
| Operator<br><b>Robert Mims</b>                      |                              |  |                                                      | Lease<br><b>Mims - Jackson No. 2</b> |                            |
| Location<br><b>SW/4 Sec. 30 - T. 30-N - R. 11-W</b> |                              |  |                                                      | County<br><b>San Juan</b>            | State<br><b>New Mexico</b> |
| Formation<br><b>Pictured Cliffs</b>                 |                              |  |                                                      | Pool<br><b>Aztec Pictured Cliffs</b> |                            |
| Casing: Diameter<br><b>5-1/2"</b>                   | Set At: Feet<br><b>2088'</b> |  | Tubing: Diameter<br><b>1-1/2"</b>                    | Set At: Feet<br><b>19'</b>           |                            |
| Pay Zone: From<br><b>1985</b>                       | To<br><b>2035</b>            |  | Total Depth:<br><b>6430' - Plugged back to 2300'</b> |                                      |                            |
| Stimulation Method<br><b>Water/Sand</b>             |                              |  | Flow Through Casing                                  | Flow Through Tubing<br><b>X</b>      |                            |

  

|                                              |             |                                     |                                             |             |             |
|----------------------------------------------|-------------|-------------------------------------|---------------------------------------------|-------------|-------------|
| Choke Size, Inches<br><b>3/4</b>             |             | Choke Constant: C<br><b>12.3650</b> |                                             |             |             |
| Shut-In Pressure, Casing, PSIG<br><b>585</b> | + 12 = PSIA | Days Shut-In<br><b>7'</b>           | Shut-In Pressure, Tubing PSIG<br><b>585</b> | + 12 = PSIA |             |
| Flowing Pressure: P PSIG<br><b>55</b>        | + 12 = PSIA |                                     | Working Pressure: Pw PSIG<br><b>233</b>     | + 12 = PSIA | <b>597</b>  |
| Temperature: T °F<br><b>60</b>               | n =         | <b>67</b>                           | Fpv (From Tables)                           | Gravity     | <b>245</b>  |
|                                              |             | <b>.85</b>                          |                                             |             | <b>.650</b> |

CHOKE VOLUME =  $Q = C \times P_t \times F_t \times F_g \times F_{pv}$

$Q = 12.3650 (67)(1.00)(1.2403)(1.009)$

= 1037 MCF

OPEN FLOW =  $Aof = Q \left( \frac{P_c^2}{P_c^2 - P_w^2} \right)^n \frac{(597)}{(585)^2 - (245)^2}$

$Aof = \left( \frac{356.409}{356.409 - 60.025} \right)^{.85}$

$\frac{(356.409)^{.85}}{(296.384)} = (1.2025)^{.85} = 1.170 (1037)$

Aof = 1,213 MCF/D

TESTED BY T. S. Wood

WITNESSED BY William L. Johnson



*C. Beeson Neal*

C. Beeson Neal, Agent in Farmington

