

Initial Deliverability  
TestForm C-122-A  
Revised April 20, 1955NEW MEXICO OIL CONSERVATION COMMISSION  
GAS WELL TEST DATA SHEET - - SAN JUAN BASIN(TO BE USED FOR FRUITLAND, PICTURED CLIFFS, MESAVERDE, & ALL DAKOTA  
EXCEPT BARKER DOME STORAGE AREA)

Pool Pine Lake Formation Pictured Cliffs County Rio Arriba  
Purchasing Pipeline El Paso Natural Gas Co. Date Test Filed 6/10/60

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Operator Mobil Oil Company Lease Jicarilla D Well No. 6 UT-PC  
Unit S Sec. 24 Twp. 26N Rge. 3W Pay Zone: From 3960' To 4038'  
Casing: OD 7-5/8" WT. 24# Set At 4220' Tubing: OD 2-3/8" WT. 4.7# T. Perf. 3938'  
Produced Through: Casing \_\_\_\_\_ Tubing X Gas Gravity: Measured .677 Estimated "  
Date of Flow Test: From 5/15/60 To 5/22/60 \* Date S.I.P. Measured 5/29/60  
Meter Run Size 4.026" Orifice Size 0.750" Type Chart Sq. Rt. Type Taps Flg.

## OBSERVED DATA

Flowing casing pressure (Dwt) \_\_\_\_\_ psig + 12 = \_\_\_\_\_ psia (a)  
Flowing tubing pressure (Dwt) 497 psig + 12 = 509 psia (b)  
Flowing meter pressure (Dwt) 496 psig + 12 = 508 psia (c)  
Flowing meter pressure (meter reading when Dwt. measurement taken):  
Normal chart reading \_\_\_\_\_ psig + 12 = \_\_\_\_\_ psia (d)  
Square root chart reading (7.10)<sup>2</sup> x spring constant 10 = 504 psia (d)  
Meter error (c) - (d) or (d) - (c) ± = 4 psi (e)  
Friction loss, Flowing column to meter:  
(b) - (c) Flow through tubing: (a) - (c) Flow through casing = 1 psi (f)  
Seven day average static meter pressure (from meter chart):  
Normal chart average reading \_\_\_\_\_ psig + 12 = \_\_\_\_\_ psia (g)  
Square root chart average reading (7.15)<sup>2</sup> x sp. const. 10 = 511 psia (g)  
Corrected seven day avge. meter press. (p<sub>f</sub>) (g) + (e) = 515 psia (h)  
P<sub>t</sub> = (h) + (f) = 516 psia (i)  
Wellhead casing shut-in pressure (Dwt) \_\_\_\_\_ psig + 12 = \_\_\_\_\_ psia (j)  
Wellhead tubing shut-in pressure (Dwt) 727 psig + 12 = 739 psia (k)  
P<sub>c</sub> = (j) or (k) whichever well flowed through = 739 psia (l)  
Flowing Temp. (Meter Run) 66 °F + 460 = 526 °Abs (m)  
P<sub>d</sub> = 1/2 P<sub>c</sub> = 1/2 (l) = 370 psia (n)

## FLOW RATE CALCULATION

$$Q = \frac{274}{(\text{integrated})} \times \left( \frac{\sqrt{(c)} = 22.54}{\sqrt{(d)} = 22.45} = 1.004 \right)^* = 275 \text{ MCF/day}$$

## DELIVERABILITY CALCULATION

$$D = Q \frac{275}{\left[ \frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{.85} = \frac{409.2}{278.7} = 1.386} = 381 \text{ MCF/day}$$

## SUMMARY

P<sub>c</sub> = 739 psia  
Q = 275 Mcf/day  
P<sub>w</sub> = 517 psia  
P<sub>d</sub> = 370 psia  
D = 381 Mcf/day

Company Mobil Oil Company  
By Max Beazley By M.C. McKinn  
Title Prod. Engr.  
Witnessed by \_\_\_\_\_  
Company \_\_\_\_\_

\* This is date of completion test.  
\* Meter error correction factor

## REMARKS OR FRICTION CALCULATIONS

| GL   | (1-e <sup>-S</sup> ) | (F <sub>c</sub> Q) <sup>2</sup> | (F <sub>c</sub> Q) <sup>2</sup> (1-e <sup>-S</sup> )<br>R <sup>2</sup> | P <sub>t</sub> <sup>2</sup><br>(Column i) | P <sub>w</sub> |
|------|----------------------|---------------------------------|------------------------------------------------------------------------|-------------------------------------------|----------------|
| 2666 | .176                 | 6.687                           | 1.177                                                                  | 266.256                                   | 517            |

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