

Initial Deliverability  
Test

NEW 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 BLANCO MESA VERDE Formation MY County Rio Arriba  
Purchasing Pipeline E P N G Date Test Filed Jan. 26, 1961  
Operator INTERNATIONAL OIL CORP. Lease M K L Well No. 4-17  
Unit L Sec. 6 Twp. 26 Rge. 7 Pay Zone: From 8380 To 4530  
Casing: OD 7 WT.        Set At 4330 Tubing: OD        WT.        T. Perf.         
Produced Through: Casing        Tubing X Gas Gravity: Measured .745 Estimated         
Date of Flow Test: From 12/1/60 To 12/7/60 \* Date S.I.P. Measured Oct. 12, 1960  
Meter Run Size 4" Orifice Size .500 Type Chart S R Type Taps FLANGE

OBSERVED DATA

Flowing casing pressure (Dwt)        psig + 12 =        psia (a)  
Flowing tubing pressure (Dwt)        psig + 12 =        psia (b)  
Flowing meter pressure (Dwt)        psig + 12 =        psia (c)  
Flowing meter pressure (meter reading when Dwt. measurement taken):  
Normal chart reading        psig + 12 =        psia (d)  
Square root chart reading (        )<sup>2</sup> x spring constant        =        psia (d)  
Meter error (c) - (d) or (d) - (c)        ±        =        psi (e)  
Friction loss, Flowing column to meter:  
(b) - (c) Flow through tubing: (a) - (c) Flow through casing        =        psi (f)  
Seven day average static meter pressure (from meter chart):  
Normal chart average reading        psig + 12 =        psia (g)  
Square root chart average reading ( 6.65 )<sup>2</sup> x sp. const. 500 = 221 psia (g)  
Corrected seven day avge. meter press. (p<sub>f</sub>) (g) + (e)        = 221 psia (h)  
P<sub>t</sub> = (h) + (f)        = 221 psia (i)  
Wellhead casing shut-in pressure (Dwt) 1002 psig + 12 = 1014 psia (j)  
Wellhead tubing shut-in pressure (Dwt) 1002 psig + 12 = 1014 psia (k)  
P<sub>c</sub> = (j) or (k) whichever well flowed through        = 1014 psia (l)  
Flowing Temp. (Meter Run)        °F + 460        =        °Abs (m)  
P<sub>d</sub> = ½ P<sub>c</sub> = ½ (l)        = 507 psia (n)

Q =        X  $\left( \frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} \right)^* = \text{MCF/da}$   
(Integrated)

DELIVERABILITY CALCULATION

D = Q 39  $\left[ \frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \text{MCF/da.}$   
783,392 .8363 28  
993,600

SUMMARY

P<sub>c</sub> = 1002 1014 psia  
Q = 39 Mcf/day  
P<sub>w</sub> = 221 psia  
P<sub>d</sub> = 507 psia  
D = 28 Mcf/day

Company Geotectonic, Inc.  
By T. B. Meyer  
Title AGENT  
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>t</sub> <sup>2</sup> + R <sup>2</sup> | P <sub>w</sub> |
|----|----------------------|---------------------------------|------------------------------------------------------------------------|-------------------------------------------|----------------------------------------------|----------------|
|    |                      |                                 |                                                                        |                                           |                                              |                |

OK

