

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 \_\_\_\_\_ Basin \_\_\_\_\_ Formation Dakota County San Juan  
 Purchasing Pipeline Southern Union Gas Co. Date Test Filed 12-27-61

Operator Consolidated Oil & Gas, Inc. Lease Price \_\_\_\_\_ Well No. 1-15  
 Unit N Sec. 15 Twp. 31N Rge. 13W Pay Zone: From 6541 To 6623  
 Casing: OD 5 1/2 WT. 14&15.5 Set At 6674 Tubing: OD 1.99 WT. 2.75 T. Perf. 6491  
 Produced Through: Casing \_\_\_\_\_ Tubing X Gas Gravity: Measured .684 Estimated \_\_\_\_\_  
 Date of Flow Test: From 11-25-61 To 12-1-61 \* Date S.I.P. Measured 12-9-61  
 Meter Run Size 4.000 Orifice Size 1.75 Type Chart L-10 Type Taps Flange

OBSERVED DATA

Flowing casing pressure (Dwt) \_\_\_\_\_ (Mesaverde) \_\_\_\_\_ psig + 12 = \_\_\_\_\_ psia (a)  
 Flowing tubing pressure (Dwt) 551 \_\_\_\_\_ psig + 12 = 563 psia (b)  
 Flowing meter pressure (Dwt) 545 \_\_\_\_\_ psig + 12 = 557 psia (c)  
 Flowing meter pressure (meter reading when Dwt. measurement taken):  
 Normal chart reading \_\_\_\_\_ psig + 12 = \_\_\_\_\_ psia (d)  
 Square root chart reading (7.50)<sup>2</sup> x spring constant 10 = 562 psia (d)  
 Meter error (c) - (d) or (d) - (c) \_\_\_\_\_ ± \_\_\_\_\_ = -5 psi (e)  
 Friction loss, Flowing column to meter:  
 (b) - (c) Flow through tubing: (a) - (c) Flow through casing \_\_\_\_\_ = 6 psi (f)  
 Seven day average static meter pressure (from meter chart):  
 Normal chart average reading \_\_\_\_\_ psig + 12 = \_\_\_\_\_ psia (g)  
 Square root chart average reading (7.6)<sup>2</sup> x sp. const. 10 = 578 psia (g)  
 Corrected seven day avge. meter press. (p<sub>f</sub>) (g) + (e) \_\_\_\_\_ = 579 psia (h)  
 P<sub>t</sub> = (h) + (f) \_\_\_\_\_ = \_\_\_\_\_ psia (i)  
 Wellhead casing shut-in pressure (Dwt) \_\_\_\_\_ (MV) \_\_\_\_\_ psig + 12 = \_\_\_\_\_ psia (j)  
 Wellhead tubing shut-in pressure (Dwt) 1343 \_\_\_\_\_ psig + 12 = 1355 psia (k)  
 P<sub>c</sub> = (j) or (k) whichever well flowed through \_\_\_\_\_ = 1355 psia (l)  
 Flowing Temp. (Meter Run) 85 °F + 460 \_\_\_\_\_ = 545 °Abs (m)  
 P<sub>d</sub> = 1/2 P<sub>c</sub> = 1/2 (l) \_\_\_\_\_ = 677 psia (n)

FLOW RATE CALCULATION

Q = 64 x  $\left( \frac{\sqrt{(c)} = 23.60085 = 0.9955}{\sqrt{(d)} = 23.70654} \right) = 561$  MCF/da  
 (integrated)

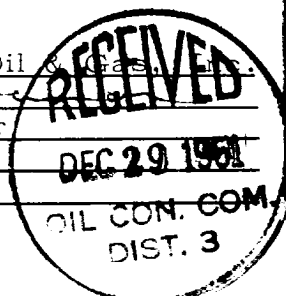
DELIVERABILITY CALCULATION

D = Q 56  $\left[ \frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = 532$  MCF/da.  
 n = .9490

SUMMARY

P<sub>c</sub> = 1355 psia  
 Q = 56 Mcf/day  
 P<sub>w</sub> = 599 psia  
 P<sub>d</sub> = 677 psia  
 D = 532 Mcf/day

Company Consolidated Oil & Gas, Inc.  
 By [Signature]  
 Title Chief Engineer  
 Witnessed by \_\_\_\_\_  
 Company \_\_\_\_\_



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

REMARKS OR FRICTION CALCULATIONS

GL	(1-e <sup>-S</sup> )	(FcQ) <sup>2</sup>	(FcQ) <sup>2</sup> (1-e <sup>-S</sup> ) R <sup>2</sup>	P <sub>t</sub> <sup>2</sup> (Column i)	P <sub>t</sub> <sup>2</sup> + R <sup>2</sup>	P <sub>w</sub>
4440	.276	85.268	23.534	335.241	358.775	599

