

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 30 Elance Formation Pictured Cliffs County 2J  
Purchasing Pipeline El Paso Natural Gas Date Test Filed October 2, 1956  
Operator Shelly Oil Co Lease Marshall #A Well No. 4  
Unit 2 Sec. 15 Twp. 27N Rge. 9W Pay Zone: From \_\_\_\_\_ To \_\_\_\_\_  
Casing: OD \_\_\_\_\_ WT. \_\_\_\_\_ Set At \_\_\_\_\_ Tubing: OD \_\_\_\_\_ WT. \_\_\_\_\_ T. Perf. \_\_\_\_\_  
Produced Through: Casing 2 Tubing \_\_\_\_\_ Gas Gravity: Measured .660 Estimated \_\_\_\_\_  
Date of Flow Test: From 9/1/56 To 9/8/56 \* Date S.I.P. Measured \_\_\_\_\_  
Meter Run Size 4" Orifice Size \_\_\_\_\_ Type Chart SR 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 (c)  
Square root chart reading (\_\_\_\_\_) <sup>2</sup> x spring constant \_\_\_\_\_ = \_\_\_\_\_ psia (c)  
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 (7.30) <sup>2</sup> x sp. const. 5.00 \_\_\_\_\_ = 266 psia (g)  
Corrected seven day avge. meter press. (pg) (g) + (e) \_\_\_\_\_ = \_\_\_\_\_ psia (h)  
 $P_t = (h) + (f)$  \_\_\_\_\_ = 266 psia (i)  
Wellhead casing shut-in pressure (Dwt) 990 psig + 12 = 602 psia (j)  
Wellhead tubing shut-in pressure (Dwt) \_\_\_\_\_ psig + 12 = \_\_\_\_\_ psia (k)  
 $P_c = (j) \text{ or } (k) \text{ whichever well flowed through}$  \_\_\_\_\_ = 602 psia (l)  
Flowing Temp. (Meter Run) \_\_\_\_\_ °F + 460 \_\_\_\_\_ = \_\_\_\_\_ °Abs (m)  
 $P_d = \frac{1}{2} P_c = \frac{1}{2} (l)$  \_\_\_\_\_ = 301 psia (n)

Q = 2301 X  $\left( \frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)} = \dots = \dots} \right)^* = \dots$  MCF/da  
(Integrated)  $\sqrt{(d)} = \dots$

DELIVERABILITY CALCULATION

D = Q 2301  $\left[ \frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \dots$  MCF/da.  
 $\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{271,803}{271,648}$  n .9419

SUMMARY

$P_c =$  602 psia  
 $Q =$  2301 Mcf/day  
 $P_w =$  266 psia  
 $P_d =$  301 psia  
 $D =$  2247 Mcf/day

Company Geological, Inc  
By W.J. McCombs W.J. McCombs  
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> ) 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>

OK



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