

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 BALLARD Formation PICTURED CLIFFS County SAN JUAN  
Purchasing Pipeline EL PASO NATURAL GAS COMPANY Date Test Filed 4-17-56  
Operator J. GLENN TURNER Lease HUERFANITO UNIT Well No. 33-33  
Unit 6 Sec. 33 Twp. 27N Rge. 9W Pay Zone: From 2442 To 2514  
Casing: OD 5-1/2" WT. 14\* Set At 2439 Tubing: OD 1" WT. 1.7\* T. Perf. 2480  
Produced Through: Casing X Tubing \_\_\_\_\_ Gas Gravity: Measured 0.645 Estimated \_\_\_\_\_  
Date of Flow Test: From 3-8-56 To 3-16-56 \* Date S.I.P. Measured 1-28-56  
Meter Run Size 4" Orifice Size 0.500 Type Chart Sq. Rt. 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 (7.85)<sup>2</sup> x sp. const. 5 = 308 psia (g)  
Corrected seven day avge. meter press. (p<sub>f</sub>) (g) + (e) \_\_\_\_\_ = 308 psia (h)  
P<sub>t</sub> = (h) + (f) \_\_\_\_\_ = 308 psia (i)  
Wellhead casing shut-in pressure (Dwt) 649 psig + 12 = 661 psia (j)  
Wellhead tubing shut-in pressure (Dwt) 649 psig + 12 = 661 psia (k)  
P<sub>c</sub> = (j) or (k) whichever well flowed through \_\_\_\_\_ = 661 psia (l)  
Flowing Temp. (Meter Run) 42 °F + 460 \_\_\_\_\_ = 502 °Abs (m)  
P<sub>d</sub> = 1/2 P<sub>c</sub> = 1/2 (l) \_\_\_\_\_ = 331 psia (n)

Q = 104 X  $\left( \frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \frac{\text{ } }{\sqrt{(d)}} \right) = \text{_____ MCF/da}$   
(Integrated)

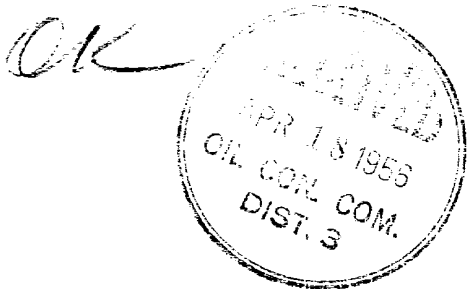
DELIVERABILITY CALCULATION  
D = Q 104  $\left[ \frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{327,000}{342,000}^n \times 0.962 = 100 \text{ MCF/da.}$

SUMMARY  
P<sub>c</sub> = 661 psia  
Q = 104 Mcf/day  
P<sub>w</sub> = 308 psia  
P<sub>d</sub> = 331 psia  
D = 100 Mcf/day  
Company J. GLENN TURNER  
By W. J. P. [Signature]  
Title Engineer  
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 1)	P <sub>t</sub> <sup>2</sup> + R <sup>2</sup>	P <sub>w</sub>
			Friction negligible			



OIL CONSERVATION COMMISSION	
APPROPRIATE OFFICE	
NAME OF OFFICE	3
ADDRESS	
CITY	
STATE	1
COUNTY	
ZIP CODE	1
DATE	1 ✓