

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 FELCHER-DEWE Formation PICTURED CLIFFS County SAN JUAN
Purchasing Pipeline EL PASO NATURAL GAS COMPANY Date Test Filed 1-11-56
Operator J. CLARK TURNER Lease CLEVELAND Well No. 1-17
Unit A Sec. 17 Twp. 27N Rge. 9W Pay Zone: From 2270 To 2330
Casing: OD 5-1/2" WT. 145 Set At 2270 Tubing: OD 1" WT. 1.605 T. Perf. 2320-33
Produced Through: Casing X Tubing _____ Gas Gravity: Measured 0.645 Estimated _____
Date of Flow Test: From 11-22-55 To 11-30-55 * Date S.I.P. Measured June 21, 1955
Meter Run Size 4.036 Orifice Size 0.750 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 (_____)² 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 (6.69)² x sp. const. 5 _____ = 218 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 218 psia (h)
P_t = (h) + (f) _____ = 218 psia (i)
Wellhead casing shut-in pressure (Dwt) 617 psig + 12 = 629 psia (j)
Wellhead tubing shut-in pressure (Dwt) 617 psig + 12 = 629 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 629 psia (l)
Flowing Temp. (Meter Run) 48 °F + 460 _____ = 508 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 315 psia (n)

FLOW RATE CALCULATION

$$Q = \text{(Integrated)} \times \left(\frac{\sqrt{(c)} - \sqrt{(d)}}{\sqrt{(c)}} \right) = \text{_____ MCF/day}$$

DELIVERABILITY CALCULATION

$$D = Q \times \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \text{_____ MCF/day}$$

SUMMARY

$n = 0.85$

P_c = 629 psia
Q = 240 Mcf/day
P_w = 218 psia
P_d = 315 psia
D = 209 Mcf/day

Company J. CLARK TURNER
By Wingil R. Sloate
Title Engineer
Witnessed by _____
Company _____

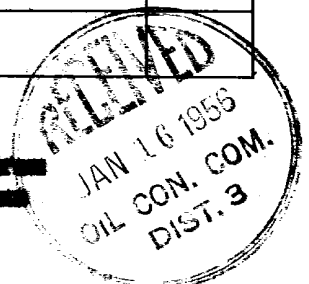
- * This is date of completion test.
- * Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	(1-e ^{-S})	(F _c Q) ²	(F _c Q) ² R ²	(1-e ^{-S})	P _t ² (Column i)	P _t ² + R ²	P _w
			Friction negligible				

NOTE: Gas chart data taken from letter dated December 28, 1955, from Mr. Vernon Orr of El Paso Natural Gas Company to Mr. J. Clark Turner.

OK



OIL CONSERVATION COMMISSION		
AZTEC DISTRICT OFFICE		
No. Copies Received		3
DISTRIBUTION		
	NO. FURNISHED	
Operator		
Santa Fe	1	
Proclamation Office		
State Land Office		
U. S. G. S.	1	
Transporter		
File	1	2