

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 _____ Date Test Filed _____

Operator El Paso Natural Gas Lease Huerfano Unit Well No. 93
Unit D Sec. 22 Twp. 26N Rge. 9W Pay Zone: From 1980 To 2024
Casing: OD 5-1/2 WT. 15.5 Set At 2076 Tubing: OD 1-1/4 WT. 2.4 T. Perf. 1980
Produced Through: Casing X Tubing _____ Gas Gravity: Measured .645 Estimated _____
Date of Flow Test: From 2/21/58 To 3/1/58 * Date S.I.P. Measured 12-26-57 (16 days)
Meter Run Size _____ Orifice Size 1.500 Type Chart _____ Type Taps _____

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 (7.45) ² x sp. const. 500 = 278 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 278 psia (h)
P_t = (h) + (f) = 278 psia (i)
Wellhead casing shut-in pressure (Dwt) 567 psig + 12 = 579 psia (j)
Wellhead tubing shut-in pressure (Dwt) 567 psig + 12 = 579 psia (k)
P_c = (j) or (k) whichever well flowed through = 579 psia (l)
Flowing Temp. (Meter Run) 60 °F + 460 = 520 ° Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 290 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(d)}} \right)^* = \underline{1051} \text{ MCF/da}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 1051 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{(0.9735)^{.85}}{(0.9774)} = \underline{1027} \text{ MCF/da.}$
 $\left[\frac{251141}{257957} \right]^n$

SUMMARY

P_c = 570 579 psia
Q = 1051 Mcf/day
P_w = 278 psia
P_d = 290 psia
D = 1027 Mcf/day

Company El Paso Natural Gas
By Original Signed
Title Lewis D. Galloway
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 (1-e ^{-S}) R ²	P _t ² (Column i)	P _t ² + R ²	P _w
			Friction Negligible			

D at 250 = 1081



OIL CONSERVATION COMMISSION		
AZTEC DISTRICT OFFICE		
No. Copies Received <u>3</u>		
DISTRIBUTION		
	NO.	
	DATE	
Operator		
Blower No.	<u>1</u>	
Generator No.		
Land Office		
U. S. G. S.	<u>1</u>	
Transporter		
File	<u>1</u>	<input checked="" type="checkbox"/>