

Initial Deliverability
Test

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 South Blanco Formation Pictured Cliff County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____

Operator El Paso Natural Gas Lease Schwerdtfeger Well No. 7-4
Unit P Sec. 31 Twp. 28 Rge. 8 Pay Zone: From 2958 To 2980
Casing: OD 5 1/2 WT. 15.5 Set At 3010 Tubing: OD 2 WT. 4.7 T. Perf. 2936
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .655 Estimated _____
Date of Flow Test: From 4/30/57 To 5/8/57 * Date S.I.P. Measured 11/1/56 (13 days)
Meter Run Size 4 Orifice Size .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 (7.25) ² x sp. const. 5 _____ = 263 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 263 psia (h)
P_t = (h) + (f) _____ = 263 psia (i)
Wellhead casing shut-in pressure (Dwt) 824 psig + 12 = 836 psia (j)
Wellhead tubing shut-in pressure (Dwt) 824 psig + 12 = 836 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 836 psia (l)
Flowing Temp. (Meter Run) 57 °F + 460 _____ = 517 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 418 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} \right)^* = \underline{253} \text{ MCF/da}$
(Integrated)

DELIVERABILITY CALCULATION

D = Q 253 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \underline{217} \text{ MCF/da.}$
 $\frac{.8333}{.8565}$

SUMMARY

P_c = 836 psia
Q = 253 Mcf/day
P_w = 264 psia
P_d = 418 psia
D = 217 Mcf/day

Company El Paso Natural Gas Company
By Original Signed
Title Lewis D. Galloway
Witnessed by _____
Company _____



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
<u>1923</u>	<u>.130</u>	<u>5.660</u>	<u>736</u>	<u>69,169</u>	<u>69,805</u>	<u>264</u>

D @ 250 = 253

OK

OIL CONSERVATION COMMISSION		
AZTEC DISTRICT OFFICE		
No. Copies Received <u>3</u>		
DISTRIBUTION		
	NO. FURNISHED	
Mr. [unclear]		
Mr. [unclear]	<u>1</u>	
Mr. [unclear]	<u>1</u>	
Mr. [unclear]		
Mr. [unclear]	<u>1</u>	
Mr. [unclear]		
Mr. [unclear]	<u>1</u>	
Mr. [unclear]		
Mr. [unclear]	<u>1</u>	☒
Mr. [unclear]		