

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)

74-009

Pool West Ritz Formation Pictured Cliffs County San Juan
Purchasing Pipeline El Paso Natural Gas Date Test Filed _____
Operator El Paso Natural Gas Lease Frontier-Belack Well No. 14
Unit I Sec. 16 Twp. 27 Rge. 11 Pay Zone: From 1960 To 1998
Casing: OD 5-1/2 WT. 15.5 Set At 1960 Tubing: OD 1 WT. 1.68 T. Perf. 1961
Produced Through: Casing X Tubing _____ Gas Gravity: Measured .665 Estimated _____
Date of Flow Test: From 12/7/59 To 12/15/59 Date S.I.P. Measured 8/7/56
Meter Run Size _____ Orifice Size _____ 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 (_____) ² x sp. const. 180 = 192 psia (g)
Corrected seven day ave. meter press. (p_f) (g) + (e) _____ = 192 psia (h)
P_t = (h) + (f) _____ = 192 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = 263 psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ psig + 12 = 263 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 263 psia (l)
Flowing Temp. (Meter Run) 42 °F + 460 _____ = 502 ° Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 132 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} = \frac{\text{_____}}{\text{_____}} = \text{_____} \right)^{.}$ = 16 MCF/da
(integrated)

DELIVERABILITY CALCULATION

D = Q 16 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} = \frac{51745}{32305} \right]^n \frac{1.6017}{1.4930} = \text{_____}$ = 24 MCF/da.

SUMMARY

P_c = 263 psia
Q = 16 Mcf/day
P_w = 192 psia
P_d = 132 psia
D = 24 Mcf/day

Company El Paso Natural Gas
By _____ Original Signed
Title _____
Witnessed by Harold L. Kennaick
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 = 0.48



