

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 Elance Mesa Verde Formation Mesa Verde County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____

Operator El Paso Natural Gas Lease Horton Well No. 7
Unit N Sec. 29 Twp. 31N Rge. 11 Pay Zone: From 4604 To 4722
Casing: OD. 7 WT. 20 & 23 Set At 4510 Tubing: OD. 2 WT. 4.7 T. Perf. 4691
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .705 Estimated _____
Date of Flow Test: From 7/8 To 7/16 * Date S.I.P. Measured 5/15/56
Meter Run Size 4 Orifice Size _____ 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 (7.35) ² x sp. const. 10 = 511 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 511 psia (h)
P_t = (h) + (f) = 511 psia (i)
Wellhead casing shut-in pressure (Dwt) 1047 psig + 12 = 1059 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1079 psig + 12 = 1091 psia (k)
P_c = (j) or (k) whichever well flowed through = 1091 psia (l)
Flowing Temp. (Meter Run) 70 °F + 460 = 538 °Abs (m)
P_d = ½ P_c = ½ (l) = 546 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} = \frac{\text{_____}}{\text{_____}} = \text{_____} \right) = \text{615} \text{ MCF/da}$
(integrated)

DELIVERABILITY CALCULATION
D = Q 615 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{892,165}{922,006} \cdot \frac{.9676}{.9756} = \text{600} \text{ MCF/da.}$

SUMMARY
P_c = 1091 psia
Q = 615 Mcf/day
P_w = 518 psia
P_d = 546 psia
D = 600 Mcf/day

Company El Paso Natural Gas Company
By Lewis D. Galloway
Title _____
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 _c ² + R ² (Column 3 + R ²)	P _w
3307	.214	33.432	7.154	267,126	518

D @ 500 = 614

OK



