

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 Aztec Formation Pictured Cliffs County San Juan
Purchasing Pipeline El Paso Natural Gas Date Test Filed _____
Operator El Paso Natural Gas Lease Morris Well No. 5
Unit H Sec. 29 Twp. 30 Rge. 11 Pay Zone: From 2140 To 2177
Casing: OD 5-1/2 WT. 15.5 Set At 2220 Tubing: OD 1-1/4 WT. 2.3 T. Perf. 2151
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .640 Estimated _____
Date of Flow Test: From 12-31-57 To 1-8-58 Date S.I.P. Measured 7-16-57
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: _____ = _____ psi (f)
(b) - (c) Flow through tubing; (a) - (c) Flow through casing
Seven day average static meter pressure (from meter chart):
Normal chart average reading _____ psig + 12 = _____ psia (g)
Square root chart average reading (6.45)² x sp. const. 5 = 208 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 208 psia (h)
P_t = (h) + (f) = 208 psia (i)
Wellhead casing shut-in pressure (Dwt) 452 psig + 12 = 464 psia (j)
Wellhead tubing shut-in pressure (Dwt) 452 psig + 12 = 464 psia (k)
P_c = (j) or (k) whichever well flowed through = 464 psia (l)
Flowing Temp. (Meter Run) 38 °F + 460 = 498 °Abs (m)
P_d = ½ P_c = ½ (l) = 232 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} \right)^* = \underline{79} \text{ MCF/day}$
(integrated)

DELIVERABILITY CALCULATION
D = Q 79 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{161,472}{172,032} \cdot \frac{.9386}{.9475} = \underline{75} \text{ MCF/day}$

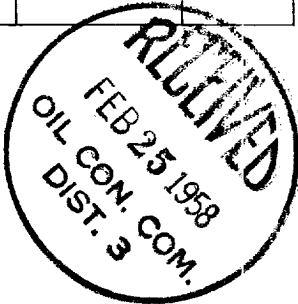
SUMMARY
P_c = 464 psia Company El Paso Natural Gas
Q = 79 Mcf/day By L. D. Galloway
P_w = 208 psia Title _____
P_d = 232 psia Witnessed by _____
D = 75 Mcf/day Company _____

* 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 = 69

INSTALLED INTERMITTER



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