

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 Wildcat Formation Pictured Cliff County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____

Operator El Paso Natural Gas Lease Harvey State Well No. 1
Unit J Sec. 16 Twp. 25 Rge. 7 Pay Zone: From 2588 To 2690
Casing: OD 7 WT. 20 Set At 2588 Tubing: OD 1 WT. 1.68 T. Perf. 2644
Produced Through: Casing X Tubing _____ Gas Gravity: Measured .690 Estimated _____
Date of Flow Test: From 8/23/56 To 8/31/56 Date S.I.P. Measured 12/12/55
Meter Run Size 1 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 (7.10)² x sp. const. 5 _____ = 252 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = _____ psia (h)
P_t = (h) + (f) _____ = 252 psia (i)
Wellhead casing shut-in pressure (Dwt) 613 _____ psig + 12 = 655 psia (j)
Wellhead tubing shut-in pressure (Dwt) 613 _____ psig + 12 = 655 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 655 psia (l)
Flowing Temp. (Meter Run) 65 °F + 460 _____ = _____ °Abs (m)
P_d = ½ P_c = ½ (l) _____ = 328 psia (n)

Q = 35 (integrated) X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} = \frac{\text{_____}}{\text{_____}} = \text{_____} \right)^* = \text{35} \text{ MCF/da}$

DELIVERABILITY CALCULATION
D = Q 35 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \frac{321,441}{365,521} \cdot \frac{.8794}{.8966} = \text{31} \text{ MCF/da.}$

SUMMARY
P_c = 655 psia
Q = 35 Mcf/day
P_w = 252 psia
P_d = 328 psia
D = 31 Mcf/day
Company El Paso Natural Gas Company
By L. D. Holloway by Tom Grant
Title Senior Gas Eng.
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 @ 250 = 35



1870

1871

1872

1873

1874

1875

1876

1877

1878



1880