

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 Blanco Formation Mesa Verde County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Date Test Filed _____

Operator El Paso Natural Gas Lease San Juan 28-7 Unit Well No. 31
Unit N Sec. 20 Twp. 28 Rge. 7 Pay Zone: From 4230 To 4910
Casing: OD 7 WT. 20 Set At 4147 Tubing: OD 2 WT. 4.7 T. Perf. 4315
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .735 Estimated _____
Date of Flow Test: From 5/7 To 5/15/58 * Date S.I.P. Measured 4/24/57
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:
(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. 1000 = 526 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 526 psia (h)
P_t = (h) + (f) = 526 psia (i)
Wellhead casing shut-in pressure (Dwt) 946 psig + 12 = 958 psia (j)
Wellhead tubing shut-in pressure (Dwt) 727 psig + 12 = 739 psia (k)
P_c = (j) or (k) whichever well flowed through = 739 psia (l)
Flowing Temp. (Meter Run) 70 °F + 460 = 530 °Abs (m)
P_d = ½ P_c = ½ (l) = 370 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \frac{\sqrt{(d)}}{\sqrt{(d)}} \right)^* = \underline{277} \text{ MCF/da}$
(Integrated)

DELIVERABILITY CALCULATION
D = Q 277 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{409221}{268048} \cdot \frac{1.5266^{.75}}{1.3736} = \underline{380} \text{ MCF/da.}$
392

SUMMARY
P_c = 739 psia
Q = 277 Mcf/day
P_w = 527 psia
P_d = 370 psia
D = 380 Mcf/day
Company El Paso Natural Gas
By Donald L. Henderson
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 _t ² (Column i)	P _t ² + R ²	P _w
3172	.206	6,781	1397	276,676	278,073	527

Tubing Perforated 4/16/58

D at 500 = 288



