

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 South Blanco Formation Pictured Cliff County El Arriba
Purchasing Pipeline El Paso Natural Gas Date Test Filed _____

Operator El Paso Natural Gas Lease Rincon Unit Well No. 86
Unit P Sec. 15 Twp. 27 Rge. 7 Pay Zone: From 3130 To 3160
Casing: OD 5-1/2 WT. 19.5 Set At 3210 Tubing: OD 1-1/4 WT. 2.3 T. Perf. 3118
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .630 Estimated _____
Date of Flow Test: From 10/31 To 11/2/57 * Date S.I.P. Measured 1/25/57 (12 days)
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 (7.49) ² x sp. const. .5 _____ = 274 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 274 psia (h)
P_t = (h) + (f) _____ = 274 psia (i)
Wellhead casing shut-in pressure (Dwt) 995 psig + 12 = 1007 psia (j)
Wellhead tubing shut-in pressure (Dwt) 995 psig + 12 = 1007 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1007 psia (l)
Flowing Temp. (Meter Run) 55 °F + 460 _____ = 515 ° Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 504 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \underline{399}$ MCF/day
(Integrated)

DELIVERABILITY CALCULATION

D = Q 399 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \underline{337}$ MCF/day
.8219 .8153

SUMMARY

P_c = 1007 psia
Q = 399 Mcf/day
P_w = 297 psia
P_d = 504 psia
D = 337 Mcf/day

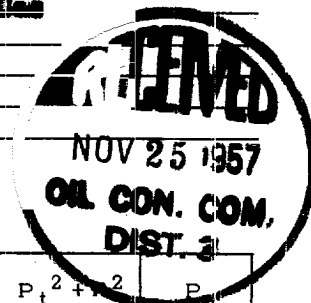
Company El Paso Natural Gas
By _____
Title Original Signed
Witnessed by Lewis D. Galloway
Company _____

* 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 + 1.2 P _w ²	P _w
<u>2033</u>	<u>137</u>	<u>96.491</u>	<u>13,219</u>	<u>75,076</u>	<u>88,295</u>	<u>297</u>

D at 250 = 401



OK