

Initial Deliverability
Test

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)

72-602

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

Operator El Paso Natural Gas Lease Rosa Unit Well No. 34-36
Unit B Sec. 36 Twp. 32 Rge. 6 Pay Zone: From 5758 To 6070
Casing: OD 5-1/2 WT. 15.5 Set At 6149 Tubing: OD 2 WT. 4.7 T. Perf. 6023
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .608 Estimated _____
Date of Flow Test: From 6/21/60 To 6/29/60 * Date S.I.P. Measured 8/20/59 (68 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 (7.25) ² x sp. const. _____ = 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) 1152 psig + 12 = 1164 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1152 psig + 12 = 1164 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1164 psia (l)
Flowing Temp. (Meter Run) 74 °F + 460 _____ = 534 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 582 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} \right)^* = \underline{1028} \text{ MCF/da}$
(Integrated)

DELIVERABILITY CALCULATION

D = Q 1028 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \underline{998} \text{ MCF/da.}$
 $\frac{1016172}{1056362}$ $\frac{.9619}{.9713}$

SUMMARY

P_c = 1164 psia
Q = 1028 Mcf/day
P_w = 546 psia
P_d = 582 psia
D = 998 Mcf/day

Company El Paso Natural Gas
By Original Signed
Title Harold L. Kendrick
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	$\frac{(F_c Q)^2 (1-e^{-S})}{R^2}$	P _t ² (Column i)	P _t ² + R ²	P _w
3662	.234	93.412	21,858	276,676	298,534	546

D at 500 = 1038



