

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)

Pool South Blanco Formation Picture Cliff County Rio Arriba
Purchasing Pipeline Pacific Northwest Date Test Filed _____
Operator El Paso Natural Gas Co. Lease Jicarilla Well No. 14-E
Unit D Sec. 17 Twp. 25 Rge. 4 Pay Zone: From 3856 To 3880
Casing: OD 5 1/2 WT. 15.5# Set At 3947 Tubing: OD 1 1/2 WT. 2.4 T. Perf. 3843
Produced Through: Casing X Tubing _____ Gas Gravity: Measured .659 Estimated _____
Date of Flow Test: From 9-30-59 To 10-8-59 * Date S.I.P. Measured 7-22-59 (9 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): 478
Normal chart average reading _____ psig + 12 = 490 psia (g)
Square root chart average reading (_____) ² x sp. const. _____ = _____ psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 490 psia (h)
P_t = (h) + (f) _____ = 490 psia (i)
Wellhead casing shut-in pressure (Dwt) 956 psig + 12 = 968 psia (j)
Wellhead tubing shut-in pressure (Dwt) 957 psig + 12 = 969 psia (k)
P_c = (j) or (k) whichever well flowed through 62 _____ = 968 psia (l)
Flowing Temp. (Meter Run) _____ °F + 460 _____ = 522 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 484 psia (n)

Q = 3621 / 8 X (_____) * _____
(integrated) (_____)
FLOW RATE CALCULATION
V(c) _____ = _____ = _____
V(d) _____ = _____

DELIVERABILITY CALCULATION
D = Q 461 [(P_c² - P_d²) / (P_c² - P_w²)] ⁿ 1.0083 / 1.0070 = 464
702768 696924

SUMMARY
P_c = 968 psia
Q = 461 Mcf/day
P_w = 490 psia
P_d = 484 psia
D = 464 Mcf/day

EL PASO NATURAL GAS COMPANY
Company _____
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	(F _c Q) ² (1-e ^{-S}) R ²	P _t ² (Column i)	P _t ² + R ²	P _w

Friction Negligible

D500 = 449

