

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 Wildest Formation Pictured Cliffs County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____
Operator El Paso Natural Gas Lease Harvey State Well No. 6
Unit A Sec. 16 Twp. 25N Rge. 7W Pay Zone: From 2643 To 2735
Casing: OD 5 1/2 WT. 15.50 Set At 2756 Tubing: OD 2 WT. 4.7 T. Perf. 2706
Produced Through: Casing X Tubing _____ Gas Gravity: Measured .665 Estimated _____
Date of Flow Test: From 2/8 To 2/17/57 * Date S.I.P. Measured 10/10/56
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 (7.75) ² x sp. const. .5 _____ = 300 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 300 psia (h)
P_t = (h) + (f) _____ = 300 psia (i)
Wellhead casing shut-in pressure (Dwt) 638 psig + 12 = 650 psia (j)
Wellhead tubing shut-in pressure (Dwt) 617 psig + 12 = 629 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 650 psia (l)
Flowing Temp. (Meter Run) 53 °F + 460 _____ = 513 ° Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 325 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} \right)^* = \underline{516} \text{ MCF/day}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 516 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \underline{495} \text{ MCF/day}$
316,875 .9530
332,500 .9599

SUMMARY

P_c = 650 psia
Q = 516 Mcf/day
P_w = 300 psia
P_d = 325 psia
D = 495 Mcf/day

Company El Paso Natural Gas
By Original Signed
Title _____
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 + R ²	P
			FRICTION NEGLIGIBLE			

D @ 250 = 544

OK

