

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 Rio Arriba
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____

Operator El Paso Natural Gas Lease Harvey State Well No. 2-A
Unit P Sec. 32 Twp. 27 Rge. 7 Pay Zone: From 2833 To 2900
Casing: OD 5 1/2 WT. 14 Set At 2833 Tubing: OD 1 1/2 WT. 2.4 T. Perf. 2873
Produced Through: Casing _____ Tubing X Gas Gravity: Measured _____ Estimated .650
Date of Flow Test: From 11/30 To 12/8 * Date S.I.P. Measured 8/22/55
Meter Run Size 4 Orifice Size _____ Type Chart Sq. Rt. Type Taps Flange

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 (7.05) ² x sp. const. 5 _____ = 24.9 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 24.9 psia (h)
P_t = (h) + (f) _____ = 24.9 psia (i)
Wellhead casing shut-in pressure (Dwt) 824 psig + 12 = 836 psia (j)
Wellhead tubing shut-in pressure (Dwt) 447 psig + 12 = 459 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 836* psia (l)
Flowing Temp. (Meter Run) 43 °F + 460 _____ = 503 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 418 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right)^* = \underline{186}$ MCF/day
(integrated)

DELIVERABILITY CALCULATION

D = Q 186 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \underline{158}$ MCF/day
 $\frac{524,172}{634,189}$ $\frac{.8265}{.8505}$

SUMMARY

P_c = 836 psia
Q = 186 Mcf/day
P_w = 254 psia
P_d = 418 psia
D = 158 MCF/day

Company El Paso Natural Gas Company
By Original Signed
Title Lewis D. Galloway
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})	P _t ²	P _t ² + P _w ²	P _w
			R ²	(Column i)		
<u>1896</u>	<u>.129</u>	<u>20,976</u>	<u>2,706</u>	<u>62,001</u>	<u>64,707</u>	<u>254</u>

* Low tubing SIP indicates liquid accumulation. Use P_c = SIP

D @ 250 = 184

OK

