

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 Wildcat Formation Pictured Cliff County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____

Operator El Paso Natural Gas Co. Lease Harvey State Well No. 2
Unit C Sec. 16 Twp. 25 Rge. 7 Pay Zone: From 2625 To 2685
Casing: OD 7 WT. 20 Set At 2625 Tubing: OD 1 WT. 1.68 T. Perf. 2645
Produced Through: Casing _____ Tubing I Gas Gravity: Measured _____ Estimated .685
Date of Flow Test: From 2/8 To 2/16/56 * Date S.I.P. Measured 12/12/55
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 (6.35) ² x sp. const. 5 _____ = 202 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 202 psia (h)
P_t = (h) + (f) _____ = 202 psia (i)
Wellhead casing shut-in pressure (Dwt) 650 psig + 12 = 662 psia (j)
Wellhead tubing shut-in pressure (Dwt) 650 psig + 12 = 662 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 662 psia (l)
Flowing Temp. (Meter Run) 58 °F + 460 _____ = 518 °Abs (m)
P_d = ½ P_c = ½ (l) _____ = 331 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \frac{\sqrt{(d)}}{\sqrt{(d)}} \right)^* = \underline{369} \text{ MCF/da}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 369 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \underline{346} \text{ MCF/da.}$
 $\frac{.9261}{.9369}$

SUMMARY

P_c = 662 psia
Q = 369 Mcf/day
P_w = 288 psia
P_d = 331 psia
D = 346 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 + R ²	P _w
			R ²	(Column i)		
<u>1812</u>	<u>.123</u>	<u>315.886</u>	<u>42.514</u>	<u>40.804</u>	<u>83.348</u>	<u>288</u>

D @ 250 = 347



OK

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