

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 Elmore Formation Pictured Cliff County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____

Operator El Paso Natural Gas Company Lease Schmidt Well No. 5-4
Unit 6 Sec. 8 Twp. 27N Rge. 8W Pay Zone: From 2885 To 2949
Casing: OD 7 WT. 20 Set At 2885 Tubing: OD 1 WT. 1.68 T. Perf. 2922
Produced Through: Casing _____ Tubing 1 Gas Gravity: Measured _____ Estimated .450
Date of Flow Test: From 1/16 To 1/23/56 * Date S.I.P. Measured 10/11/55
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 (7.45) ² x sp. const. 5 _____ = 278 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 278 psia (h)
P_t = (h) + (f) _____ = 278 psia (i)
Wellhead casing shut-in pressure (Dwt) 812 psig + 12 = 824 psia (j)
Wellhead tubing shut-in pressure (Dwt) 812 psig + 12 = 824 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 824 psia (l)
Flowing Temp. (Meter Run) 50 °F + 460 _____ = 510 °Abs (m)
P_d = ½ P_c = ½ (l) _____ = 412 psia (n)

Q = 823 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)} = \dots = \dots} \right)^* = \underline{823}$ MCF/da
(Integrated) $\sqrt{(d)} = \dots$

DELIVERABILITY CALCULATION

D = Q 823 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{509,232}{379,747} \times \frac{1.3497}{1.2815} = \underline{1056}$ MCF/da.

SUMMARY

P_c = 824 psia
Q = 823 Mcf/day
P_w = 517 psia
P_d = 412 psia
D = 1056 Mcf/day

Company El Paso Natural Gas Company

By Original Sign

Title Lewis D. Ball

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 _c ² + R ²	P _w
			R ²	(Column i)		
<u>1906</u>	<u>0.129</u>	<u>1720.507</u>	<u>221.945</u>	<u>77,204</u>	<u>299,249</u>	<u>517</u>

D = 250 = 833

OK

REPORT OF PROGRESS
OF THE SURVEY OF THE
LANDS OF THE UNITED STATES

IN THE DISTRICT OF NEW MEXICO
FOR THE YEAR 1900

Prepared by the Surveyors General of the District of New Mexico

Submitted to the Bureau of Land Management

Washington, D. C.

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