

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 Ballard Pictured Cliff Formation Pictured Cliff County San Juan
Purchasing Pipeline El Paso Natural Gas Date Test Filed _____
Operator El Paso Natural Gas Lease McConnell Well No. 5
Unit C Sec. 24 Twp. 26N Rge. 9W Pay Zone: From 1996 To 2042
Casing: OD 5 1/2 WT. 15 1/2 Set At 2082 Tubing: OD 1 1/2 WT. 2.3 T. Perf. 1952
Produced Through: Casing X Tubing _____ Gas Gravity: Measured .675 Estimated _____
Date of Flow Test: From 1/23 To 1/31/57 * Date S.I.P. Measured 9/7/56
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 (7.15) ² x sp. const. 5 = 256 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 256 psia (h)
P_t = (h) + (f) = 256 psia (i)
Wellhead casing shut-in pressure (Dwt) 617 psig + 12 = 629 psia (j)
Wellhead tubing shut-in pressure (Dwt) 617 psig + 12 = 629 psia (k)
P_c = (j) or (k) whichever well flowed through = 629 psia (l)
Flowing Temp. (Meter Run) 60 °F + 460 = 520 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 315 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{P_c}}{\sqrt{P_d}} \right) = \frac{\sqrt{P_c}}{\sqrt{P_d}} = \frac{\sqrt{629}}{\sqrt{315}} = \frac{25.06}{17.75} = 1.412$ * 1361 MCF/day
(Integrated)

DELIVERABILITY CALCULATION

D = Q 1361 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{296,416}{329,839} = .901$ * 1243 MCF/day

SUMMARY

P_c = 629 psia
Q = 1361 Mcf/day
P_w = 257 psia
P_d = 315 psia
D = 1243 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}) R ²	P _t ² (Column i)	P _t ² + R ²	P _w
1318	.091	2.928	266	65,536	65,802	257

D @ 250 = 1350

OK

REPUBLICAN PARTY OF THE STATE OF NEW YORK
COUNTY OF ALBANY

STATE OF NEW YORK
COUNTY OF ALBANY

IN SENATE,
January 11, 1911.

REPORT OF THE COMMISSIONERS OF THE LAND OFFICE
IN RESPONSE TO A RESOLUTION PASSED BY THE SENATE
JANUARY 11, 1911.

ALBANY: J. B. LEECH, STATE PRINTER, 1911.

ALBANY: J. B. LEECH, STATE PRINTER, 1911.

ALBANY: J. B. LEECH, STATE PRINTER, 1911.

ALBANY: J. B. LEECH, STATE PRINTER, 1911.

ALBANY: J. B. LEECH, STATE PRINTER, 1911.

ALBANY: J. B. LEECH, STATE PRINTER, 1911.

ALBANY: J. B. LEECH, STATE PRINTER, 1911.

ALBANY: J. B. LEECH, STATE PRINTER, 1911.

ALBANY: J. B. LEECH, STATE PRINTER, 1911.

ALBANY: J. B. LEECH, STATE PRINTER, 1911.

ALBANY: J. B. LEECH, STATE PRINTER, 1911.

ALBANY: J. B. LEECH, STATE PRINTER, 1911.

ALBANY: J. B. LEECH, STATE PRINTER, 1911.

ALBANY: J. B. LEECH, STATE PRINTER, 1911.

ALBANY: J. B. LEECH, STATE PRINTER, 1911.

ALBANY: J. B. LEECH, STATE PRINTER, 1911.

ALBANY: J. B. LEECH, STATE PRINTER, 1911.

ALBANY: J. B. LEECH, STATE PRINTER, 1911.

ALBANY: J. B. LEECH, STATE PRINTER, 1911.

ALBANY: J. B. LEECH, STATE PRINTER, 1911.

ALBANY: J. B. LEECH, STATE PRINTER, 1911.

ALBANY: J. B. LEECH, STATE PRINTER, 1911.

ALBANY: J. B. LEECH, STATE PRINTER, 1911.

ALBANY: J. B. LEECH, STATE PRINTER, 1911.

ALBANY: J. B. LEECH, STATE PRINTER, 1911.

ALBANY: J. B. LEECH, STATE PRINTER, 1911.

ALBANY: J. B. LEECH, STATE PRINTER, 1911.

ALBANY: J. B. LEECH, STATE PRINTER, 1911.

ALBANY: J. B. LEECH, STATE PRINTER, 1911.

ALBANY: J. B. LEECH, STATE PRINTER, 1911.

ALBANY: J. B. LEECH, STATE PRINTER, 1911.

ALBANY: J. B. LEECH, STATE PRINTER, 1911.

ALBANY: J. B. LEECH, STATE PRINTER, 1911.

ALBANY: J. B. LEECH, STATE PRINTER, 1911.

ALBANY: J. B. LEECH, STATE PRINTER, 1911.

ALBANY: J. B. LEECH, STATE PRINTER, 1911.

ALBANY: J. B. LEECH, STATE PRINTER, 1911.

ALBANY: J. B. LEECH, STATE PRINTER, 1911.

ALBANY: J. B. LEECH, STATE PRINTER, 1911.

ALBANY: J. B. LEECH, STATE PRINTER, 1911.

ALBANY: J. B. LEECH, STATE PRINTER, 1911.