

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 Cliffs Formation Pictured Cliffs County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____
Operator J. Glenn Turner Lease Engels Well No. 6-1
Unit A Sec. 28A Twp. 7N Rge. 9W Pay Zone: From 2920 To 3020
Casing: OD 5 1/2 WT. 15.50 Set At 2946 Tubing: OD 1 1/2 WT. 2.3 T. Perf. 2902
Produced Through: Casing X Tubing _____ Gas Gravity: Measured .653 Estimated _____
Date of Flow Test: From 6/8 To 6/16 * Date S.I.P. Measured 6/1/56
Meter Run Size 1 Orifice Size _____ Type Chart Sq. Rl. 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 (7.30) ² x sp. const. 5 _____ = 266 psia (g)
Corrected seven day avge. meter press. (P_f) (g) + (e) _____ = 266 psia (h)
P_t = (h) + (f) _____ = 266 psia (i)
Wellhead casing shut-in pressure (Dwt) 707 psig + 12 = 719 psia (j)
Wellhead tubing shut-in pressure (Dwt) 707 psig + 12 = 719 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 719 psia (l)
Flowing Temp. (Meter Run) 69 °F + 460 _____ = 529 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 360 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right)^* = \underline{237} \text{ MCF/da}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 237 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \underline{210} \text{ MCF/da.}$
137,362
116,205
.0683
.8860

SUMMARY

P_c = 719 psia
Q = 237 Mcf/day
P_w = 266 psia
P_d = 360 psia
D = 210 Mcf/day

Company El Paso Natural Gas Company
By Original Signed
Title Lewis D. Galloway
Witnessed by _____
Company _____

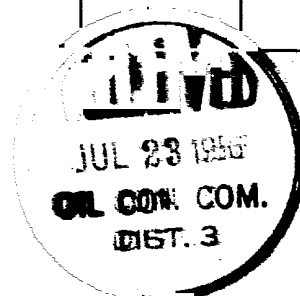
* This is date of completion test.
* Meter error correction factor

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

D = 210 = 210

OK



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