

NEW MEXICO OIL CONSERVATION COMMISSION
GAS WELL TEST DATA SHEET - - SAN JUAN BASIN

DUAL COMPLETION

(TO BE USED FOR FRUITLAND, PICTURED CLIFFS, MESAVERDE, & ALL DAKOTA
EXCEPT BARKER DOME STORAGE AREA)

Pool Blanco Mesa Verde Formation Mesa Verde County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____

Operator El Paso Natural Gas Lease Allison Well No. 10-M
Unit E Sec. 20 Twp. 32N Rge. 6W Pay Zone: From 5500 To 5582
Casing: OD 5 1/2 WT. 15.5 Set At 7940 Tubing: OD 2 WT. 4.7 T. Perf. 7093
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .600 Estimated _____
Date of Flow Test: From 6/30 To 7/8 * Date S.I.P. Measured 4/5/56
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: _____ = _____ psi (f)
(b) - (c) Flow through tubing: (a) - (c) Flow through casing
Seven day average static meter pressure (from meter chart):
Normal chart average reading _____ psig + 12 = _____ psia (g)
Square root chart average reading (5.95) ² x sp. const. 1500 = 531 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 531 psia (h)
P_t = (h) + (f) = 531 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (j)
Wellhead tubing shut-in pressure (Dwt) 1154 psig + 12 = 1166 psia (k)
P_c = (j) or (k) whichever well flowed through = 1166 psia (l)
Flowing Temp. (Meter Run) 81 °F + 460 = _____ °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 583 psia (n)

FLOW RATE CALCULATION

Q = 992 X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right)^* =$ _____ MCF/da
(integrated)

DELIVERABILITY CALCULATION

D = Q 992 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 967 MCF/da.
 $\frac{1,019,667}{1,054,455}$ $\frac{.9670}{.9752}$

SUMMARY

P_c = 1166 psia
Q = 992 Mcf/day
P_w = 552 psia
P_d = 583 psia
D = 967 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
<u>4256</u>	<u>.266</u>	<u>86.993</u>	<u>23,140</u>	<u>281,961</u>	<u>305,101</u>	<u>552</u>

D @ 500 = 1006





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