

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 Blanco Formation Mesa Verde County San Juan

Purchasing Pipeline El Paso Natural Gas Date Test Filed _____

Operator El Paso Natural Gas Lease Sumray Well No. No. 2-D
Unit H Sec. 21 Twp. 30N Rge. 10W Pay Zone: From 5046 To 5280
Casing: OD 5-1/2" WT. 15.5 Set At 5385 Tubing: OD 2" WT. 4.7 T. Perf. 5179
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .685 Estimated _____
Date of Flow Test: From 3/9/58 To 3/17/58 * Date S.I.P. Measured 1-9-58
Meter Run Size _____ Orifice Size 1.500 Type Chart _____ Type Taps _____

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 (6.75)² x sp. const. 10 = 456 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 456 psia (h)
P_t = (h) + (f) = 456 psia (i)
Wellhead casing shut-in pressure (Dwt) 1033 psig + 12 = 1045 ~~1048~~ psia (j)
Wellhead tubing shut-in pressure (Dwt) 1036 psig + 12 = 1048 ~~1048~~ psia (k)
P_c = (j) or (k) whichever well flowed through = 1048 ~~1048~~ psia (l)
Flowing Temp. (Meter Run) 63 °F + 460 = 523 ~~524~~ °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 524 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} = \frac{\text{_____}}{\text{_____}} = \text{_____} \right)^* = \text{631} \text{ MCF/da}$

(Integrated)

DELIVERABILITY CALCULATION

D = Q 631 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} = \frac{823728}{882378} \right]^n \frac{.9335}{.9497} = \text{599} \text{ MCF/da.}$

SUMMARY

P_c = 1048 psia
Q = 631 Mcf/day
P_w = 524 465 psia
P_d = 522 524 psia
D = 599 Mcf/day

Company El Paso Natural Gas
By _____ Original Signed
Title _____
Witnessed by Lewis D. Galloway
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
3548	.227	35.200	7,990	207936	215926	465

D at 500 = 602



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