

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)

72-344-01

Pool North Lee Flinn Formation Dakota County San Juan
Purchasing Pipeline El Paso Natural Gas Date Test Filed _____

Operator El Paso Natural Gas Lease Allison Unit Well No. 16 (B)
Unit H Sec. 13 Twp. 32 Rge. 7 Pay Zone: From 8310 To 8430
Casing: OD 9-3/2 WT. 13.5 Set At 8488 Tubing: OD 2" WT. 4.7 T. Perf. 8390
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .796 Estimated _____
Date of Flow Test: From 10/30/58 To 11/7/58 * Date S.I.P. Measured 7/14/58 (B)
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: _____ = _____ 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 (6.75)² x sp. const. 10 = 436 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 436 psia (h)
P_t = (h) + (f) = 436 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (j)
Wellhead tubing shut-in pressure (Dwt) 2498 psig + 12 = 2510 psia (k)
P_c = (j) or (k) whichever well flowed through = 2510 psia (l)
Flowing Temp. (Meter Run) 64 °F + 460 = 504 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 1255 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} = \frac{\text{_____}}{\text{_____}} = \text{_____} \right)^* = \text{727} \text{ MCF/da}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 727 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{2510^2 - 1255^2}{2510^2 - 599^2} = \frac{4725075}{6051437} \right]^n = \frac{.7808}{.8708} = \text{604} \text{ MCF/da.}$

SUMMARY

P_c = 2510 psia
Q = 727 Mcf/day
P_w = 599 psia
P_d = 1255 psia
D = 604 Mcf/day

Company El Paso Natural Gas
Original Signed _____
By _____
Title Harold L. Kendrick
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
2"	.234	46.717	10,932	207,936	248,663	599
1-1/4"	.093	380.374	29,795			

+ Also 1-1/4 6150 - 8406 or 2256'

B at 500 = 722



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