

Initial Deliverability
Test

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 Formation Pictured Cliff County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____

Operator El Paso Natural Gas Lease Hughes Well No. 3-29
Unit H Sec. 29 Twp. 26 Rge. 7 Pay Zone: From 2962 To 2979
Casing: OD 5 1/2 WT. 15.5 Set At 3051 Tubing: OD 1 1/4 WT. 2.3 T. Perf. 2967
Produced Through: Casing X Tubing _____ Gas Gravity: Measured .675 Estimated _____
Date of Flow Test: From 4/30 To 5/9/57 * Date S.I.P. Measured 11/13/56
Meter Run Size 4 Orifice Size .500 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) 698 psig + 12 = 710 psia (j)
Wellhead tubing shut-in pressure (Dwt) 699 psig + 12 = 711 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 710 psia (l)
Flowing Temp. (Meter Run) 54 °F + 460 _____ = 514 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 355 psia (n)

FLOW RATE CALCULATION

$$Q = \text{_____} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \text{_____} \text{ MCF/da}$$

(integrated)

DELIVERABILITY CALCULATION

$$D = Q \text{_____} \left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n \text{_____} = \text{_____} \text{ MCF/da.}$$

66 378,075 .8620 58
1,38,564 .6815

SUMMARY

P_c = 710 psia
Q = 66 Mcf/day
P_w = 256 psia
P_d = 355 psia
D = 58 Mcf/day

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

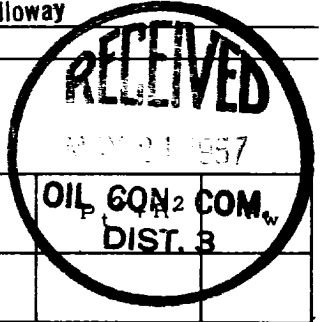
* This is date of completion test.
* Meter error correction factor _____

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)	

FRICTION NEGLIGIBLE

D @ 250 = 66



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