

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 Blanco Formation MV County RA
Purchasing Pipeline EP Date Test Filed _____

Operator EP Lease San Juan 28-6 Well No. 55
Unit M Sec. 9 Twp. 28-N Rge. 6-W Pay Zone: From 5114 To 5912
Casing: OD 5-1/2 WT. 15.5 Set At 5999 Tubing: OD 2 WT. 4.7 T. Perf. 5889
Produced Through: Casing _____ Tubing X Gas Gravity: Measured 690 Estimated _____
Date of Flow Test: From 3/31/57 To 4/9/57 * Date S.I.P. Measured 8/27/56
Meter Run Size 4 Orifice Size 2.250 Type Chart Sq. Root Type Taps F

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 (7.45) ² x sp. const. 10 = 555 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 555 psia (h)
P_t = (h) + (f) _____ = 555 psia (i)
Wellhead casing shut-in pressure (Dwt) 1045 psig + 12 = 1057 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1041 psig + 12 = 1053 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1053 psia (l)
Flowing Temp. (Meter Run) 81 °F + 460 _____ = 541 ° Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 527 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \underline{2791}$ MCF/da

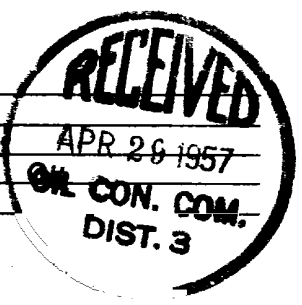
DELIVERABILITY CALCULATION

D = Q 2791 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \underline{3457}$ MCF/da.
n = $\frac{1.3307}{1.2388}$

SUMMARY

P_c = 1053 psia
Q = 2791 Mcf/day
P_w = 696 psia
P_d = 527 psia
D = 3457 Mcf/day

Company _____
By Lewis D. Gaffney
Title _____
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>4063</u>	<u>.256</u>	<u>688.590</u>	<u>176.279</u>	<u>308025</u>	<u>484304</u>	<u>696</u>

$\frac{846665}{800784} = 1.0572 = 1.0426$

D500 = 2910

OK

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