

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 **TAPACITO** Formation **PICTURED CLIFFS** County **RIO ARRIADA**
Purchasing Pipeline **NL PASO NATURAL GAS COMPANY** Date Test Filed **MAY 27, 1963**

Operator **NORTHWEST PRODUCTION CORP.** Lease **"H"** Well No. **12-8**
Unit **D** Sec. **8** Twp. **26N** Rge. **4W** Pay Zone: From **3878** To **3898**
Casing: OD **5** WT. **11.5** Set At **4100** Tubing: OD **1-1/4** WT. **2.3** T. Perf. **3876**
Produced Through: Casing **X** Tubing _____ Gas Gravity: Measured **.678** Estimated _____
Date of Flow Test: From **4-27-63** To **5-5-63** * Date S.I.P. Measured **11-7-63**
Meter Run Size **4** Orifice Size **0.875** Type Chart **L-10** Type Taps **F1**

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 (_____) ² x sp. const. **10.00** = **540** psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = **540** psia (h)
P_t = (h) + (f) _____ = **540** psia (i)
Wellhead casing shut-in pressure (Dwt) **600** psig + 12 = **601** psia (j)
Wellhead tubing shut-in pressure (Dwt) **600** psig + 12 = **601** psia (k)
P_c = (j) or (k) whichever well flowed through _____ = **601** psia (l)
Flowing Temp. (Meter Run) _____ °F + 460 _____ = _____ °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = **341** ~~300~~ psia (n)

Q = **300** X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} = \frac{\text{_____}}{\text{_____}} = \text{_____} \right)^* = \text{_____ MCF/da}$

(Integrated)

DELIVERABILITY CALCULATION

D = Q **300** $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{347,480}{172,005} \right]^n \frac{1.8170}{(2.0191)^n} = \frac{670}{200} \text{ MCF/da.}$

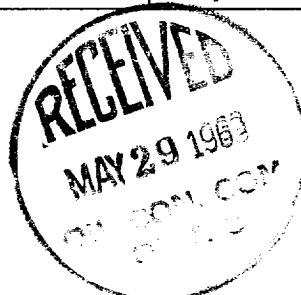
SUMMARY
P_c = **601** psia Company **NORTHWEST PRODUCTION CORPORATION**
Q = **300** Mcf/day By **Ray Phillips, Mgr., Prod. Oper.**
P_w = **540** psia Title _____
P_d = **341** psia Witnessed by _____
D = **200** **670** Mcf/day Company _____

* 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 l)	P _t ² + R ²	P _w
3887	0.178	0.371	06	291,000	291,006	540.1

P_c = 1.680



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