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Initial Deliverability
Test

Form C-122-A
Revised April 20, 1955

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 Rio Arriba
Purchasing Pipeline PACIFIC NORTHWEST PIPELINE CORPORATION Date Test Filed 1-28-58

Operator PACIFIC NORTHWEST PIPELINE Lease San Juan 32-7 Well No. 19-4
Unit H Sec. 4 Twp. 31N Rge. 7W Pay Zone: From _____ To _____
Casing: OD 5" WT. _____ Set At 6020' Tubing: OD 1-1/4" WT. _____ T. Perf. 5963'
Produced Through: Casing _____ Tubing 2 2 Gas Gravity: Measured .623 Estimated _____
Date of Flow Test: From 12-31-57 To 1-8-58 * Date S.I.P. Measured 10-29-57
Meter Run Size _____ Orifice Size _____ 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 423 psig + 12 = 435 psia (g)
Square root chart average reading (_____) ² x sp. const. _____ = _____ psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 435 psia (h)
P_t = (h) + (f) = 435 psia (i)
Wellhead casing shut-in pressure (Dwt) 1131 psig + 12 = 1143 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1100 psig + 12 = 1112 psia (k)
P_c = (j) or (k) whichever well flowed through = 1143 psia (l)
Flowing Temp. (Meter Run) 62 °F + 460 = 502 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 571.5 psia (n)

Q = 609 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)} = \frac{\sqrt{(d)}}{\sqrt{(d)}}} \right)^* = \text{_____ MCF/da}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 609 $\left[\frac{(P_c^2 - P_d^2) = \frac{979,837}{1,063,942}}{(P_c^2 - P_w^2) = \frac{1,063,942}{1,063,942}} \right]^n \frac{(0.9209)^{.75}}{0.9400} = \text{_____ 572 MCF/da.}$

SUMMARY

P_c = 1143 psia
Q = 609 Mcf/day
P_w = 492 psia
P_d = 571.5 psia
D = 572 Mcf/day

Company PACIFIC NORTHWEST PIPELINE
By Original signed by G. H. Peppin
Title District Production Engineer
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
3715	0.237	224.826	53.262	189,225	194,307	492

OK

