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1-Bill Cutler
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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 EL PASO NATURAL GAS COMPANY Date Test Filed 9-25-58

Operator PACIFIC NORTHWEST PIPELINE Lease Indian "H" Well No. 1
Unit N 10 Sec. 15 Twp. 28N Rge. 3W Pay Zone: From 5812' To 6069'
Casing: OD 5 1/2" WT. Set At 5986' Tubing: OD 2-3/8" WT. 4.7# T. Perf. 5782'
Produced Through: Casing Tubing Gas Gravity: Measured .680 Estimated
Date of Flow Test: From 6/29/58 To 7/7/58 * Date S.I.P. Measured 8/26/55
Meter Run Size Orifice Size 1.000 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 psig + 12 = psia (g)
Square root chart average reading (7.35) ² x sp. const. 15.00 = 810 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 810 psia (h)
P_t = (h) + (f) = 810 psia (i)
Wellhead casing shut-in pressure (Dwt) psig + 12 = psia (j)
Wellhead tubing shut-in pressure (Dwt) 1500 psig + 12 = 1512 psia (k)
P_c = (j) or (k) whichever well flowed through = 1512 psia (l)
Flowing Temp. (Meter Run) 71 °F + 460 = 531 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 756 psia (n)

Q = 215 (integrated) x $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} \right)^* = \text{ } \text{ MCF/da}$

DELIVERABILITY CALCULATION

D = Q 215 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{1,714,608}{1,630,044} \right]^n \frac{(1.052)^{.75}}{1.039} = \text{223} \text{ MCF/da.}$

SUMMARY

P_c = 1512 psia
Q = 215 Mcf/day
P_w = 810 psia
P_d = 756 psia
D = 223 Mcf/day

Company PACIFIC NORTHWEST PIPELINE
By Original signed by G. H. Peppitt
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

