

3-Bob X Artec
1-Bill Cutler
1-L. D. Galloway
1-Wayne Smith
2-File

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 6-30-58
Operator PACIFIC NORTHWEST PIPELINE Lease San Juan 28-4 Well No. 13-20
Unit N Sec. 20 Twp. 28N Rge. 4W Pay Zone: From 6630' To 6096'
Casing: OD 5 1/2" WT. 15.5 Set At 6712' Tubing: OD 2-3/8" WT. 4.74 T. Perf. 6622'
Produced Through: Casing Tubing xx Gas Gravity: Measured 0.677 Estimated
Date of Flow Test: From 6-7-58 To 6-15-58 * Date S.I.P. Measured 12-3-57
Meter Run Size 4" Orifice Size 1.250 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 (7.30) ² x sp. const. 10.00 = 533 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = psia (h)
P_t = (h) + (f) = 533 psia (i)
Wellhead casing shut-in pressure (Dwt) 1138 psig + 12 = 1150 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1102 psig + 12 = 1114 psia (k)
P_c = (j) or (k) whichever well flowed through = 1114 psia (l)
Flowing Temp. (Meter Run) 82 °F + 460 = 542 ° Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 557 psia (n)

Q = 585 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)} = \text{ } = \text{ }} \right)^* = \text{ } \text{585 MCF/da}$
(integrated) $\sqrt{(d)} = \text{ }$

DELIVERABILITY CALCULATION

D = Q 585 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{930,747}{948,197} \right]^n \frac{(0.9813)^{-0.75}}{0.9859} = \text{ } \text{577 MCF/da.}$

SUMMARY

P_c = 1114 psia
Q = 585 Mcf/day
P_w = 541 psia
P_d = 557 psia
D = 577 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
4483	0.278	30.250	8.410	284.089	292.499	541

