

Artes
D. Galloway
All Cattle
1-Hayne Smith
2-File

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 Elanco Formation Mesa Verde County Rio Arriba
Purchasing Pipeline EL PASO NATURAL GAS COMPANY Date Test Filed 2-14-58

Operator PACIFIC NORTHWEST PIPELINE Lease Rosa Well No. 18-22
Unit H Sec. 22 Twp. 31N Rge. 6W Pay Zone: From 5272' To 5678'
Casing: OD 5" WT. 14.0 Set At 5766' Tubing: OD 2" WT. 4.7 T. Perf. 5660'
Produced Through: Casing Tubing xx Gas Gravity: Measured .600 Estimated
Date of Flow Test: From 11-8-57 To 11-16-57 Date S.I.P. Measured 11-21-56
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 psig + 12 = psia (g)
Square root chart average reading (5.70) ² x sp. const. 15.000 = 487 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 487 psia (h)
P_t = (h) + (f) = 487 psia (i)
Wellhead casing shut-in pressure (Dwt) 1178 psig + 12 = 1190 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1172 psig + 12 = 1184 psia (k)
P_c = (j) or (k) whichever well flowed through = 1190 psia (l)
Flowing Temp. (Meter Run) 44 °F + 460 = 504 °Abs (m)
P_d = ½ P_c = ½ (l) = 595 psia (n)

Q = 321 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)} = \text{ } = \text{ }} \right)^* = \text{ } \text{321 MCF/da}$
(integrated) $\sqrt{(d)} = \text{ }$

DELIVERABILITY CALCULATION

D = Q 321 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} = \frac{1,062,075}{1,176,936} \right]^n \frac{(0.9024)^{.75}}{0.9259} = \text{ } \text{297 MCF/da.}$

SUMMARY

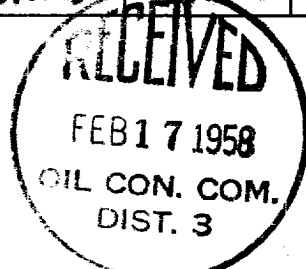
P_c = 1190 psia
Q = 321 Mcf/day
P_w = 489 psia
P_d = 595 psia
D = 297 Mcf/day

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
3396	0.219	9.108	1.995	237.169	239.164	489



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