

APCC Antec
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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 Chona Mesa Formation Pictured Cliffs County Rio Arriba
Purchasing Pipeline EL PASO NATURAL GAS COMPANY Date Test Filed 2-14-58

Operator PACIFIC NORTHWEST PIPELINE Lease Indian "F" Well No. 1
Unit K B Sec. 31 Twp. 29N Rge. 3W Pay Zone: From 3688' To 3905'
Casing: OD 7" WT. Set At 3882' Tubing: OD 2-3/8" WT. 4.7 T. Perf. 3866'
Produced Through: Casing Tubing x x Gas Gravity: Measured .646 Estimated
Date of Flow Test: From 1-16-58 To 1-23-58 * Date S.I.P. Measured 5-24-55
Meter Run Size Orifice Size 1.750 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 (7.60) ² x sp. const. 10 = 578 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 578 psia (h)
P_t = (h) + (f) = 578 psia (i)
Wellhead casing shut-in pressure (Dwt) 1102 psig + 12 = 1114 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) 75 °F + 460 = 535 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 557 psia (n)

Q = 557 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \frac{\text{ } }{\sqrt{(d)}} \right) = 557$ MCF/day
(integrated)

DELIVERABILITY CALCULATION

D = Q 557 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{.85} = 571$ MCF/day
930,747 1.031 302,359 1.026

SUMMARY

P_c = 1114 psia
Q = 557 Mcf/day
P_w = 582 psia
P_d = 557 psia
D = 571 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
2497	0.166	27.426	4.553	334.084	338.637	582

