

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 Mesa Verde Formation Mesa Verde County Rio Arriba
Purchasing Pipeline Pacific Northwest Pipeline Corporation Date Test Filed January 7, 1957
Operator Pacific Northwest Pipeline Lease San Juan Unit 31-6 Well No. 5-31
Unit K Sec. 31 Twp. 31 Rge. 6 Pay Zone: From 5060 To 5569
Casing: OD 5 1/2 WT. 15.5 Set At 5569 Tubing: OD 2 3/8 WT. 4.7 T. Perf. 5542
Produced Through: Casing - Tubing - Gas Gravity: Measured .672 Estimated -
Date of Flow Test: From 11-18-56 To 11-18-56 Date S.I.P. Measured 11-8-55
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 (-) ² x sp. const. - = 577 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) - = - psia (h)
P_t = (h) + (f) - = 577 psia (i)
Wellhead casing shut-in pressure (Dwt) 1056 psig + 12 = 1068 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1030 psig + 12 = 1042 psia (k)
P_c = (j) or (k) whichever well flowed through - = 1042 psia (l)
Flowing Temp. (Meter Run) 66 °F + 460 - = 506 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) - = 521 psia (n)

FLOW RATE CALCULATION

Q = 993 X $\left(\frac{\sqrt{c}}{\sqrt{d}} \right)^2 = \text{MCF/day}$
(Integrated)

DELIVERABILITY CALCULATION

D = Q 993 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \text{MCF/day}$
 $\left[\frac{1042^2 - 521^2}{1042^2 - 732.786^2} \right]^n = 1.004$

SUMMARY

P_c = 1042 psia
Q = 993 Mcf/day
P_w = 732 psia
P_d = 521 psia
D = 1075 Mcf/day

Company Pacific Northwest Pipeline Corporation
By Donald G. Adams
Title Well Test Engineer
Witnessed by -
Company -

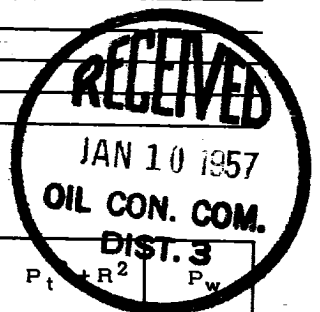
* This is date of completion test.
* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	(1-e ^{-S})	(F _c Q) ²	(F _c Q) ² (1-e ^{-S})	P _t ²	P _t ² + R ²	P _w
			R ²	(Column i)		
<u>362</u>	<u>.230</u>	<u>87161</u>	<u>20047</u>	<u>332589</u>	<u>352636</u>	<u>594</u>

3-D.M.G.C.C. - Adams
2-Phillips Petroleum-Wayne Smith
1-L.G. Tudy
1-File

OK



after (11) ... 11-2-41

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11-2-41

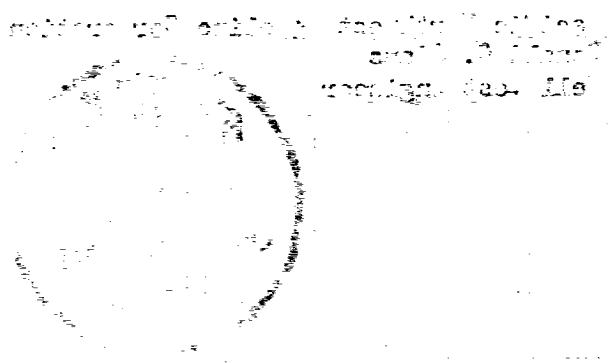
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