

Initial Deliverability
Test

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 El Paso Natural Gas Company Date Test Filed March 13, 1957
Operator Pacific Northwest Pipeline Lease 5 x Jan 20-5 Well No. 14-27
Unit 6 Sec. 27 Twp. 30N Rge. 9W Pay Zone: From 5696 To 6148
Casing: OD 5 1/2 WT. 14 Set At 6059 Tubing: OD 2 3/8 WT. 4.7 T. Perf. 6136
Produced Through: Casing _____ Tubing 2X Gas Gravity: Measured .645 Estimated _____
Date of Flow Test: From 2-22-57 To 2-22-57 * Date S.I.P. Measured 3-4-56
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 (7.35) ² x sp. const. 510 = 510 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = _____ psia (h)
P_t = (h) + (f) _____ = 510 psia (i)
Wellhead casing shut-in pressure (Dwt) 1065 psig + 12 = 1077 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1060 psig + 12 = 1072 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1072 psia (l)
Flowing Temp. (Meter Run) 55 °F + 460 _____ = 515 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 536 psia (n)

FLOW RATE CALCULATION

Q = 135 X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \underline{135}$ MCF/day
(Integrated)

DELIVERABILITY CALCULATION

D = Q .135 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^{.75} = \underline{134}$ MCF/day
 $\frac{(0.9998) \cdot 75}{0.9946}$

SUMMARY

P_c = 1072 psia
Q = 135 Mcf/day
P_w = 510 psia
P_d = 516 psia
D = 134 Mcf/day

Company Pacific Northwest Pipeline Corp.
By Original signed by G. H. Pepp'n
Title District Production Engineer
Witnessed by _____
Company _____

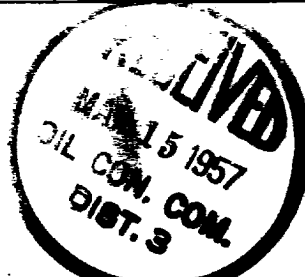
* This is date of completion test.
* Meter error correction factor

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
3958	0.250	1.610	.4025	291.6	292	540

3-N.M.O.C.C.-Artes
1-El Paso Natural Gas(Galloway)
1GL. G. Truby
2-File

OK



OIL CONSERVATION COMMISSION		
AZTEC DISTRICT OFFICE		
No. Copies Received		3
DISTRIBUTION		
	NO. FURNISHED	
Operator		
Santa Fe	1	
Proration Office		
State Land Office		
U. S. G. S.	1	
Transporter		
File	1	✓