

Initial Deliverability
Test

NEW MEXICO OIL CONSERVATION COMMISSION
GAS WELL TEST DATA SHEET - - SAN JUAN BASIN

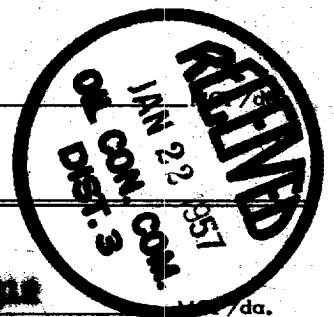
(TO BE USED FOR FRUITLAND, PICTURED CLIFFS, MESAVERDE, & ALL DAKOTA
EXCEPT BARKER DOME STORAGE AREA)

Pool SEANNO MESAVERDE Formation MESAVERDE County SAN JUAN
Purchasing Pipeline PACIFIC NORTHWEST PIPELINE CORPORATION Date Test Filed JANUARY 18, 1957
Operator Pacific Northwest Pipeline Lease San Juan 32-7 Well No. 19-16
Unit 1 Sec. 16 Twp. 32 Rge. 7 Pay Zone: From 2000 To 2400
Casing: OD 5 1/8 WT. 14 Set At 5716 Tubing: OD 2 1/8 WT. 4.7 T. Perf. 2227
Produced Through: Casing Tubing Gas Gravity: Measured .80 Estimated
Date of Flow Test: From 12-18-56 To 12-25-56 * Date S.I.P. Measured 1-8-57
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. = psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = psia (h)
P_t = (h) + (f) = psia (i)
Wellhead casing shut-in pressure (Dwt) 1160 psig + 12 = 1172 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1160 psig + 12 = 1172 psia (k)
P_c = (j) or (k) whichever well flowed through = 1172 psia (l)
Flowing Temp. (Meter Run) 60 °F + 460 = 500 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 586 psia (n)

Q = 337 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} \right) =$
(integrated)



D = Q 337 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{.9257} =$
 $\left[\frac{1,009,000}{1,118,726} \right]^{.9257} =$
1,118,726 .9257 337 /da.

SUMMARY
P_c = 1160 psia
Q = 337 Mcf/day
P_w = 700 psia
P_d = 586 psia
D = 337 Mcf/day

Company Pacific Northwest Pipeline Corp.
By
Title
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 R ²	(1-e ^{-S})	P _t ² (Column i)	P _t ² + R ²	P _w
3370	0.819	10,095	2.198	0.819	1172,016	1172,016	476

Fe 9.400

1-11-57
1-11-57
1-11-57
1-11-57

[Signature]

Page 1 of 1

RECEIVED
FEDERAL BUREAU OF INVESTIGATION
U.S. DEPARTMENT OF JUSTICE

RECEIVED
FEDERAL BUREAU OF INVESTIGATION
U.S. DEPARTMENT OF JUSTICE

TO : DIRECTOR, FBI (100-374301)

FROM : SAC, NEW YORK (100-100000)

SUBJECT: [REDACTED]

RE: [REDACTED]

DATE: [REDACTED]

CLASSIFICATION: [REDACTED]

REFERENCE: [REDACTED]

1. [REDACTED]

2. [REDACTED]

3. [REDACTED]

4. [REDACTED]

5. [REDACTED]

6. [REDACTED]

7. [REDACTED]

8. [REDACTED]

9. [REDACTED]

10. [REDACTED]

11. [REDACTED]

12. [REDACTED]

13. [REDACTED]

14. [REDACTED]

15. [REDACTED]

16. [REDACTED]

17. [REDACTED]

18. [REDACTED]

19. [REDACTED]

20. [REDACTED]

21. [REDACTED]

22. [REDACTED]



100-374301	100-100000	100-100000	100-100000	100-100000	100-100000
------------	------------	------------	------------	------------	------------

RECEIVED
FEDERAL BUREAU OF INVESTIGATION
U.S. DEPARTMENT OF JUSTICE