

MOE Artee
Artler
Galloway
1 - Smith
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 Alamosa Formation Mesa Verde Count San Arriba
Purchasing Pipeline PACIFIC SOUTHERN PIPELINE CORP. Date Test Filed 1-9-58
Operator PACIFIC SOUTHERN PIPELINE Lease San Juan 89-5 Well No. 37-31
Unit 1 Sec. 31 Twp. 29 Rge. 5 Pay Zone: From 5696' To 5192'
Casing: OD 5-1/2" WT. 14.0 Set At 5740' Tubing: OD 1-1/4" WT. 2.4 T. Perf. 5690'
Produced Through: Casing ^ Tubing 21 Gas Gravity: Measured .690 Estimated
Date of Flow Test: From 12-8-57 To 12-16-57 * Date S.I.P. Measured 6-26-57
Meter Run Size 4.000 Orifice Size 1.250 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 580 psig + 12 = 592 psia (g)
Square root chart average reading () ² x sp. const. = psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 592 psia (h)
P_t = (h) + (f) = 592 psia (i)
Wellhead casing shut-in pressure (Dwt) 1078 psig + 12 = 1090 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1070 psig + 12 = 1082 psia (k)
P_c = (j) or (k) whichever well flowed through = 1082 psia (l)
Flowing Temp. (Meter Run) 65 °F + 460 = 505 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 541 psia (n)

FLOW RATE CALCULATION

$$Q = \frac{940}{(\text{integrated})} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \text{MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \frac{\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n}{(1.2519)^{-75}} = 1,112 \text{ MCF/da.}$$

SUMMARY

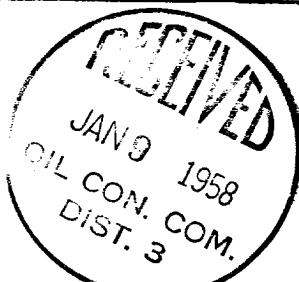
P_c = 1090 psia
Q = 940 Mcf/day
P_w = 690 psia
P_d = 541 psia
D = 1,112 Mcf/day

Company PACIFIC SOUTHERN PIPELINE CORP.
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 ⁻⁸)	(F _c Q) ²	(F _c Q) ² (1-e ⁻⁸) R ²	P _t ² (Column i)	P _t ² + R ²	P _w
3692	0.235	535.998	125.866	350.464	476.330	690



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