

3 NMOC
5 Austral
1 EPNG
1 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 Blanco - Mesaverde Formation Mesaverde County San Juan
Purchasing Pipeline El Paso Natural Gas Co. Date Test Filed 8-10-65
Operator Austral Oil Co. Lease Bunny Well No. 1
Unit P Sec. 10 Twp. 27N Rge. 9W Pay Zone: From 4357 To 4443
Casing: OD 4 1/2 WT. 10.5 Set At 6732 Tubing: OD 1 1/4 WT. 2.1# T. Perf. 4325
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .708 Estimated _____
Date of Flow Test: From 7-6-65 To 7-14-65 * Date S.I.P. Measured 2-3-65
Meter Run Size 4" Orifice Size 1.500 Type Chart S.R. Type Taps Flange

OBSERVED DATA

Flowing casing pressure (Dwt) 705 psig + 12 = 717 psia (a)
Flowing tubing pressure (Dwt) 496 psig + 12 = 508 psia (b)
Flowing meter pressure (Dwt) 484 psig + 12 = 496 psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken:
Normal chart reading _____ psig + 12 = _____ psia (d)
Square root chart reading (7.0)² x spring constant 10 = 490 psia (d)
Meter error (c) - (d) or (d) - (c) ± = +6 psi (e)
Friction loss, Flowing column to meter:
(b) - (c) Flow through tubing: (a) - (c) Flow through casing = +12 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. = 483 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 489 psia (h)
P_t = (h) + (f) = 501 psia (i)
Wellhead casing shut-in pressure (Dwt) 1094 psig + 12 = 1106 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1094 psig + 12 = 1106 psia (k)
P_c = (j) or (k) whichever well flowed through = 1106 psia (l)
Flowing Temp. (Meter Run) _____ °F + 460 = _____ °Abs (m)
P_d = 1/2 P_c = 1/2 (l) 80% = 885 psia (n)

FLOW RATE CALCULATION

Q = 1220 X $\left(\frac{\sqrt{(c)} = \sqrt{1.0122} = 1.0061}{\sqrt{(d)}} \right)^* = \underline{1227} \text{ MCF/da}$
(Integrated)

DELIVERABILITY CALCULATION

D = Q 1227 $\left[\frac{(P_c^2 - P_d^2) = \underline{440,011}}{(P_c^2 - P_w^2) = \underline{789,722}} \right]^{.75} \frac{.6450}{(.5572)^{.75}} = \underline{791} \text{ MCF/da.}$

SUMMARY

P_c = 1106 psia
Q = 1227 Mcf/day
P_w = 658 psia
P_d = 885 psia
D = 791 Mcf/day

Company Austral Oil Co.
By J. A. Angen (J & J)
Title Consulting Engineer
Witnessed by _____
Company _____

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

REMARKS OR FRICTION CALCULATIONS

GL	(1-e ^{-S})	(FcQ) ²	(FcQ) ² (1-e ^{-S}) R ²	P _t ² (Column i)	P _t ² + R ²	P _w
3062	.200	912.566	182.513	251.001	433.514	658

Fc = 24.62



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