

3 NMOCC ✓
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 Basin = Dakota Formation Dakota 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 6432 To 6670
Casing: OD 4 1/2" WT. 10.5# Set At 6732 Tubing: OD 1 1/4" WT. 2.1# T. Perf. 6400
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .658 Estimated _____
Date of Flow Test: From 7-6-65 To 7-14-65 * Date S.I.P. Measured 1-27-65
Meter Run Size 4" Orifice Size 1.500 Type Chart S.R. Type Taps Flange

OBSERVED DATA

Flowing casing pressure (Dwt) Packer psig + 12 = - - psia (a)
Flowing tubing pressure (Dwt) 498 psig + 12 = 510 psia (b)
Flowing meter pressure (Dwt) 477 psig + 12 = 489 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) ± = -1 psi (e)
Friction loss, Flowing column to meter:
(b) - (c) Flow through tubing; (a) - (c) Flow through casing = +21 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. = 490 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 489 psia (h)
P_t = (h) + (f) = 510 psia (i)
Wellhead casing shut-in pressure (Dwt) - - psig + 12 = - - psia (j)
Wellhead tubing shut-in pressure (Dwt) 2058 psig + 12 = 2070 psia (k)
P_c = (j) or (k) whichever well flowed through = 2070 psia (l)
Flowing Temp. (Meter Run) _____ °F + 460 = _____ °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 1035 psia (n)

FLOW RATE CALCULATION

Q = 976 X $\left(\frac{V_{(c)}}{V_{(d)}} = \frac{\sqrt{.9980}}{\sqrt{.9990}} = .9990 \right) = \underline{975} MCF/da
(integrated)$

DELIVERABILITY CALCULATION

D = Q 975 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^{.75} = \underline{848} MCF/da.
 $\left[\frac{3,213,675}{3,872,679} \right]^{.75} = (.8694 / (.8298))^{.75}$$

SUMMARY

P_c = 2070 psia
Q = 975 Mcf/day
P_w = 642 psia
P_d = 1035 psia
D = 848 Mcf/day

Company Austral Oil Co.
By T. A. Dugan (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})	(F _c Q) ²	(F _c Q) ² (1-e ^{-s}) R ²	P _t ²	P _t ² + R ²	P _w
<u>4211</u>	<u>.264</u>	<u>576.216</u>	<u>152.121</u>	<u>412.221</u>	<u>642</u>	

F_c = 24.62



1. *Chlorophyll a* (Chl *a*)
 2. *Chlorophyll b* (Chl *b*)
 3. *Chlorophyll c* (Chl *c*)
 4. *Chlorophyll d* (Chl *d*)
 5. *Chlorophyll e* (Chl *e*)
 6. *Chlorophyll f* (Chl *f*)
 7. *Chlorophyll g* (Chl *g*)
 8. *Chlorophyll h* (Chl *h*)
 9. *Chlorophyll i* (Chl *i*)
 10. *Chlorophyll j* (Chl *j*)
 11. *Chlorophyll k* (Chl *k*)
 12. *Chlorophyll l* (Chl *l*)
 13. *Chlorophyll m* (Chl *m*)
 14. *Chlorophyll n* (Chl *n*)
 15. *Chlorophyll o* (Chl *o*)
 16. *Chlorophyll p* (Chl *p*)
 17. *Chlorophyll q* (Chl *q*)
 18. *Chlorophyll r* (Chl *r*)
 19. *Chlorophyll s* (Chl *s*)
 20. *Chlorophyll t* (Chl *t*)
 21. *Chlorophyll u* (Chl *u*)
 22. *Chlorophyll v* (Chl *v*)
 23. *Chlorophyll w* (Chl *w*)
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 26. *Chlorophyll z* (Chl *z*)
 27. *Chlorophyll aa* (Chl *aa*)
 28. *Chlorophyll ab* (Chl *ab*)
 29. *Chlorophyll ac* (Chl *ac*)
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