

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 S. Blanco Formation PC County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Co. Date Test Filed _____
Operator Sher-Alan Oil Co. Lease Edwards Well No. 1
Unit D Sec. 27 Twp. 24 N Rge. 1 W Pay Zone: From 2970 To 3003
Casing: OD 4 1/2 WT. _____ Set At 3029 Tubing: OD 1 WT. _____ T. Perf. 3000
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .680 Estimated _____
Date of Flow Test: From 12-28-62 To 1-6-63 * Date S.I.P. Measured 11-20-62
Meter Run Size 4" Orifice Size .750 Type Chart S R Type Taps Flange

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 (6.5) ² x sp. const. 5 _____ = 211 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 211 psia (h)
P_t = (h) + (f) _____ = 211 psia (i)
Wellhead casing shut-in pressure (Dwt) 824 psig + 12 = 836 psia (j)
Wellhead tubing shut-in pressure (Dwt) 824 psig + 12 = 836 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 836 psia (l)
Flowing Temp. (Meter Run) 40 °F + 460 _____ = 500 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 418 psia (n)

FLOW RATE CALCULATION

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

DELIVERABILITY CALCULATION

D = Q 148 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{524,172}{646,697} \right]^n \cdot (.8105) .8365 = \text{_____}$ MCF/day

SUMMARY

P_c = 836 psia
Q = 148 Mcf/day
P_w = 228 psia
P_d = 418 psia
D = 124 Mcf/day

Company Sher-Alan Oil Co.
By GoLentrie, Inc. C. H. Keyes
Title Agent
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
<u>2040</u>	<u>.138</u>	<u>55.640</u>	<u>7.678</u>	<u>44,521</u>	<u>52,199</u>	<u>228</u>