

3-00C
1-EPNG Proration Dept.
1-D
1-F

Form C-122-A
Revised April 20, 1955

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 Basin Dakota Formation Dakota County SJ
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed 4/11/61
Operator Southwest Production Co. Lease Edgar Federal Well No. 4
Unit K Sec. 15 Twp. 27N Rge. 12W Pay Zone: From 6038 To 6085
Casing: OD 5 1/2 WT. 15.5 Set At 6209 Tubing: OD 2 3/8 WT. 4.70 T. Perf. 6076
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .685 Estimated _____
Date of Flow Test: From 3/21/61 To 3/29/61 * Date S.I.P. Measured 4/5/61
Meter Run Size _____ Orifice Size _____ Type Chart _____ Type Taps _____

OBSERVED DATA

Flowing casing pressure (Dwt) _____ psig + 12 = _____ psia (a)
Flowing tubing pressure (Dwt) 520 psig + 12 = 532 psia (b)
Flowing meter pressure (Dwt) 507 psig + 12 = 519 psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken):
Normal chart reading _____ psig + 12 = _____ psia (d)
Square root chart reading (7.2)² x spring constant 1000 = 518 psia (d)
Meter error (c) - (d) or (d) - (c) _____ ± _____ = 1 psi (e)
Friction loss, Flowing column to meter: _____ = 14 13 psi (f)
(b) - (c) Flow through tubing: (a) - (c) Flow through casing
Seven day average static meter pressure (from meter chart):
Normal chart average reading _____ psig + 12 = _____ psia (g)
Square root chart average reading (7.15)² x sp. const. 1000 = 511 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 512 psia (h)
P_t = (h) + (f) _____ = 526 525 psia (i)
Wellhead casing shut-in pressure (Dwt) 1970 psig + 12 = 1982 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1970 psig + 12 = 1982 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1982 psia (l)
Flowing Temp. (Meter Run) 84 °F + 460 _____ = 544 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 991 psia (n)

Q = 765 (Integrated) X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{519}{518} = 1.001} \right)^* = \underline{766} \text{ MCF/da}$

DELIVERABILITY CALCULATION
D = Q 766 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} = \frac{2,946,243}{3,602,588} \right]^n \frac{(.8178)}{(.8690)} .8534 = \underline{659} \text{ MCF/da.}$
3,639,161 654

SUMMARY
P_c = 1982 psia
Q = 766 Mcf/day
P_w = 571 psia
P_d = 991 psia
D = 766 Mcf/day
Company Southwest Production Company
By George L. Hoffman, Jr.
Title Production Foreman
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
4162	.261	18,797	49,060	276,676	325,736	571
		51869	13,538	275625	289,163	538

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