

3 MOC
1 El Paso
1 Price
1 Roberts
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 Astec Extension Formation Fruitland County San Juan
Purchasing Pipeline El Paso Natural Gas Co. Date Test Filed 3-24-59
Operator Elvis Roberts Lease Grace Pearce Well No. 1
Unit 0 Sec. 22 Twp. 29N Rge. 11W Pay Zone: From 1380 To 1466
Casing: OD 4-1/2" WT. 11.5 Set At 1495 Tubing: OD 2-3/8" WT. 4.7 T. Perf. O.R.
Produced Through: Casing _____ Tubing X Gas Gravity: Measured 0.657 Estimated _____
Date of Flow Test: From _____ To _____ * Date S.I.P. Measured _____
Meter Run Size 4" Orifice Size 1.500 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 (7.10) ² x sp. const. 5 = 252 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 252 psia (h)
P_t = (h) + (f) _____ = 252 psia (i)
Wellhead casing shut-in pressure (Dwt) 600 psig + 12 = 612 psia (j)
Wellhead tubing shut-in pressure (Dwt) 600 psig + 12 = 612 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 612 psia (l)
Flowing Temp. (Meter Run) 53 °F + 460 _____ = 513 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 306 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{V(c)}{V(d)} \right)^* =$ _____ MCF/da
(integrated)

DELIVERABILITY CALCULATION

D = Q 481 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n \frac{.9170}{.903125} =$ 441 MCF/da.

SUMMARY

P_c = 612 psia Company Elvis Roberts
Q = 481 Mcf/day By J.A. Dwyer
P_w = 252 psia Title Consulting Engineer
P_d = 306 psia Witnessed by _____
D = 441 Mcf/day 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

