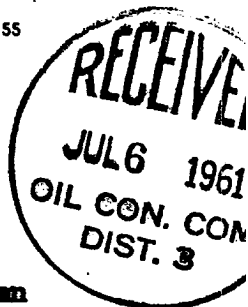


Initial Deliverability
Test
70418

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 Formation Mesaverde County San Juan
Purchasing Pipeline El Paso Natural Gas Date Test Filed _____

Operator El Paso Natural Gas Lease Heaton Well No. 3
Unit M Sec. 32 Twp. 31 Rge. 11 Pay Zone: From 3822 To 4698
Casing: OD 7 WT. 23 Set At 4150 Tubing: OD 2-3/8 WT. 4.7 T. Perf. 3841
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .712 Estimated _____
Date of Flow Test: From 5/6/61 To 5/14/61 * Date S.I.P. Measured 3/22/60
Meter Run Size _____ Orifice Size _____ Type Chart _____ Type Taps _____

OBSERVED DATA

Flowing casing pressure (Dwt) _____ psig + 12 = _____ psia (a)
Flowing tubing pressure (Dwt) _____ psig + 12 = 526 psia (b)
Flowing meter pressure (Dwt) _____ psig + 12 = 526 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: _____ = _____ 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 (_____) ² x sp. const. _____ = 526 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 526 psia (h)
P_t = (h) + (f) _____ = 526 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = 661 psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ psig + 12 = 802 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 802 psia (l)
Flowing Temp. (Meter Run) 76 °F + 460 _____ = 536 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 401 psia (n)

FLOW RATE CALCULATION

$$Q = \frac{V(c)}{V(d)} \times \left(\frac{V(c)}{V(d)} \right)^* = \frac{88}{1} \text{ MCF/day}$$

DELIVERABILITY CALCULATION

$$D = Q \frac{\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n}{\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n} = \frac{88 \times \left[\frac{1.82103}{3.66528} \right]^n}{\left[\frac{1.82103}{3.66528} \right]^n} = \frac{1.3161}{1.2292} = 108 \text{ MCF/day}$$

SUMMARY

P_c = 802 psia
Q = 88 Mcf/day
P_w = 526 psia
P_d = 401 psia
D = 108 Mcf/day

Company El Paso Natural Gas
By Original signed by
Title H. L. Kendrick
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
2735	.180	.684	123 Friction Negligible			

B at 500 = 91

Perforated tubing. Turned back on production 4/14/61.

OK