

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 Tapacito Formation PC County RA
Purchasing Pipeline El Paso Natural Gas Co. Date Test Filed 9/9/65
Operator J. R. Abraham Lease Stevie Joe Federal Well No. 4
Unit I Sec. 6 Twp. 25N Rge. 3W Pay Zone: From 3864 To 3874
Casing: OD 4 1/2 WT. Set At 3912 Tubing: OD 2 3/8 WT. T. Perf. 3831
Produced Through: Casing Tubing X Gas Gravity: Measured .642 Estimated
Date of Flow Test: From 7-25 To 8-2 * Date S.I.P. Measured 8-9-65
Meter Run Size 4" Orifice Size .750 Type Chart SR Type Taps FLANGE

OBSERVED DATA

Flowing casing pressure (Dwt) 241 psig + 12 = 253 psia (a)
Flowing tubing pressure (Dwt) 220 psig + 12 = 232 psia (b)
Flowing meter pressure (Dwt) 218 psig + 12 = 230 psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken:
Normal chart reading psig + 12 = psia (d)
Square root chart reading (6.75)² x spring constant 5 = 228 psia (d)
Meter error (c) - (d) or (d) - (c) = 2 psi (e)
Friction loss, Flowing column to meter: = 24 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 (6.70)² x sp. const. 5 = 224 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 226 psia (h)
P_t = (h) + (f) = 230 psia (i)
Wellhead casing shut-in pressure (Dwt) 508 psig + 12 = 520 psia (j)
Wellhead tubing shut-in pressure (Dwt) 508 psig + 12 = 520 psia (k)
P_c = (j) or (k) whichever well flowed through = 520 psia (l)
Flowing Temp. (Meter Run) °F + 460 = °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 416 psia (n)

FLOW RATE CALCULATION

Q = 112 X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{1.0088}{1.0044} \right) = \underline{112} MCF/da
(Integrated)$

DELIVERABILITY CALCULATION

D = Q 112 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \underline{57} MCF/da.
 $\frac{97,344}{217,500}$
 $\frac{218,416}{218,416}$$

SUMMARY

P_c = 520 psia
Q = 112 Mcf/day
P_w = 230 psia
P_d = 416 psia
D = 57 Mcf/day

Company J. R. Abraham
By [Signature]
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
			Negligible			