

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 Mesa Verde Formation Mesa Verde County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____
Operator El Paso Natural Gas Company Lease Lindsey Well No. 1-A
Unit H 21-11-19 Sec. 19 Twp. 39N Rge. 8W Pay Zone: From 4186 To 4358
Casing: OD 7" WT. 23 & 20 Set At 4420 Tubing: OD 2" WT. 4.7 T. Perf. 4734
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .695 Estimated _____
Date of Flow Test: From 4-30-56 To 5-8-56 * Date S.I.P. Measured 3-16-56
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 = _____ 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 (7.40)² x sp. const. 1000 = _____ psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = _____ psia (h)
P_t = (h) + (f) _____ = _____ psia (i)
Wellhead casing shut-in pressure (Dwt) 1102 psig + 12 = 1114 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1086 psig + 12 = 1098 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1098 psia (l)
Flowing Temp. (Meter Run) 88 °F + 460 _____ = _____ °Abs (m)
P_d = ½ P_c = ½ (l) _____ = 549 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right)^* = \underline{2155}$ MCF/da
(integrated)

DELIVERABILITY CALCULATION

D = Q 2155 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \underline{2323}$ MCF/da.
 $\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{904,203}{817,862}$ $\frac{1.1056}{1.0781}$

SUMMARY

P_c = 1098 psia
Q = 2155 Mcf/day
P_w = 623 psia
P_d = 549 psia
D = 2323 Mcf/day

Company El Paso Natural Gas Company
By Lewis D. Galloway
Title _____
Witnessed by _____
Company _____

- * This is date of completion test.
- * Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	(1-e ⁻⁸)	(F _c Q) ²	(F _c Q) ² (1-e ⁻⁸)	P _t ²	P _t ² + R ²	P _w
3290	.213	410.508	87.438	300,304	307,742	623

D @ 500 = 2223





OIL CONSERVATION COMMISSION		
AZTEC DISTRICT OFFICE		
No. Copies Received		3
DISTRIBUTION		
	NO. FURNISHED	
Operator		
Santa Fe	1	
Proration Office		
State Land Office		
U. S. G. S.	1	
Transporter		
File	1	✓