

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	Mesa Verde	County	Rio Arriba
Purchasing Pipeline	El Paso Natural Gas			Date Test Filed	
Operator	El Paso Natural Gas			Lease	San Juan 28-5
Unit	M	Sec.	34	Twp.	28
				Rge.	5
				Pay Zone: From	5608
				To	5774
Casing: OD	5-1/2	WT.	15.5	Set At	5858
				Tubing: OD	2
				WT.	4.7
				T. Perf.	5740
Produced Through: Casing		Tubing	X	Gas Gravity: Measured	.690
				Estimated	
Date of Flow Test: From	12-24-57	To	12-31-57	* Date S.I.P. Measured	7-13-56
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 (<u>7.60</u>) ² x sp. const. <u>10</u> _____	= <u>578</u>	psia	(g)
Corrected seven day avge. meter press. (p _f) (g) + (e) _____	= <u>578</u>	psia	(h)
P _t = (h) + (f) _____	= <u>578</u>	psia	(i)
Wellhead casing shut-in pressure (Dwt) <u>953</u> _____	psig + 12 = <u>965</u>	psia	(j)
Wellhead tubing shut-in pressure (Dwt) <u>953</u> _____	psig + 12 = <u>965</u>	psia	(k)
P _C = (j) or (k) whichever well flowed through _____	= <u>965</u>	psia	(l)
Flowing Temp. (Meter Run) <u>62</u> °F + 460 _____	= <u>522</u>	°Abs	(m)
P _d = ½ P _C = ½ (l) _____	= <u>483</u>	psia	(n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} = \frac{\text{_____}}{\text{_____}} = \text{_____} \right)^* = \underline{689} \text{ MCF/day}$

(integrated)

DELIVERABILITY CALCULATION

$$D = Q \frac{689}{\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} = \frac{697,936}{586,650} \right]^n \frac{1.1896}{1.1391}} = \underline{785} \text{ MCF/da.}$$

SUMMARY

$P_c =$	965	psia
$Q =$	689	Mcf/day
$P_w =$	587	psia
$P_d =$	483	psia
$D =$	785	Mcf/day

Company El Paso Natural Gas
By Original Signed
Title _____
Witnessed by Lewis D. Galloway
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
3961	.250	41.964	10,491	334.084	344.575	587

$$D \text{ at } 500 = 750$$
