

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)

72-271

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 28-7 Well No. 94 (N)
Unit H Sec. 30 Twp. 28N Rge. 7W Pay Zone: From 2470 To 2540
Casing: OD 5.5 WT. 15.5 Set At 4887 Tubing: OD 2" WT. 4.7 T. Perf. 4796
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .665 Estimated _____
Date of Flow Test: From 9/21/58 To 10/1/58 Date S.I.P. Measured 2/5/58
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 (7.10) ² x sp. const. 10 = 504 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 504 psia (h)
P_t = (h) + (f) = 504 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (j)
Wellhead tubing shut-in pressure (Dwt) 1056 psig + 12 = 1068 psia (k)
P_c = (j) or (k) whichever well flowed through = 1068 psia (l)
Flowing Temp. (Meter Run) 64 °F + 460 = 524 °Abs (m)
P_d = ½ P_c = ½ (l) = 534 psia (n)

FLOW RATE CALCULATION

$$Q = \text{(integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \frac{167}{1} = 167 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \times \left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = 167 \times \left[\frac{855468}{886098} \right]^{.9740} = 163 \text{ MCF/da.}$$

SUMMARY

P _c =	<u>1068</u>	psia	Company	<u>El Paso Natural Gas</u>
Q =	<u>167</u>	Mcf/day	By	<u>Original Sign-d</u>
P _w =	<u>505</u>	psia	Title	<u>Harold L. Kendrick</u>
P _d =	<u>534</u>	psia	Witnessed by	
D =	<u>163</u>	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
3189	.207	2.465	510	254.016	254526	505

D at 500 = 166



11. 12. 13. 14. 15. 16. 17. 18. 19. 20.

21. 22. 23. 24. 25. 26. 27. 28. 29. 30.

31. 32. 33. 34. 35. 36. 37. 38. 39. 40.

41. 42. 43. 44. 45. 46. 47. 48. 49. 50.

51. 52. 53. 54. 55. 56. 57. 58. 59. 60.

61. 62. 63. 64. 65. 66. 67. 68. 69. 70.

