

OIL POLLUTION COMMISSION			
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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 Co. Lease Pierce Well No. 3
Unit A 5 1/2 Sec. 7 15.5 Twp. 30N R 5490 9W Pay Zone: From 4728 To 4863
Casing: OD 7 WT. 20 Set At 3145 Tubing: OD 2 WT. 4.7 T. Perf. 5375
Produced Through: Casing _____ Tubing X Gas Gravity: Measured _____ Estimated .660
Date of Flow Test: From 2/29 To 3/8 * Date S.I.P. Measures: 2/3/56
Meter Run Size 4 Orifice Size _____ Type Chart Sq. Rt. Type Taps Flange

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 (7.45) ² x sp. const. 10 _____ = 555 psia (g)
Corrected seven day ave. meter press. (p_f) (g) + (e) _____ = 555 psia (h)
P_t = (h) + (f) _____ = 555 psia (i)
Wellhead casing shut-in pressure (Dwt) 1021 psig + 12 = 1033 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1024 psig + 12 = 1036 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1036 psia (l)
Flowing Temp. (Meter Run) 91 °F + 460 _____ = 551 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 518 psia (n)

Q = 3029 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \frac{\text{ } }{\sqrt{(d)}} = \text{ } } \right)^* = \text{ } 3029 \text{ MCF/day}$
(Integrated)

DELIVERABILITY CALCULATION

D = 3029 $\left[\frac{(P_c^2 - P_w^2)}{(P_c^2 - P_w^2)} = \frac{804,972}{581,162} \right]^n \frac{1.3851}{1.2765} = \text{ } 3867 \text{ MCF/day}$

SUMMARY

P_c = 1036 psia Company El Paso Natural Gas Company
Q = 3029 Mcf/day By _____
P_w = 702 psia Title _____
P_d = 518 psia Witnessed by _____
D = 3867 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
3548	.227	811.053	184,109	308,025	492,134	702