

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 Mesa Verde Formation Mesa Verde County RA
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed February 6, 1956
Operator Blackwood & Nichols Lease NE Elance Unit Well No. 23-6
Unit N Sec. 6 Twp. 30N Rge. 7W Pay Zone: From _____ To _____
Casing: OD _____ WT. _____ Set At _____ Tubing: OD 2 WT. _____ T. Perf. 545
Produced Through: Casing _____ Tubing 2 Gas Gravity: Measured .650 Estimated _____
Date of Flow Test: From 1/9/56 To 1/17/56 * Date S.I.P. Measured _____
Meter Run Size 4" Orifice Size _____ Type Chart S4 R2 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 (8.00) ² x sp. const. 10.00 _____ = _____ psia (g)
Corrected seven day avg. 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) _____ psig + 12 = _____ psia (k)
P_c = (j) or (k) whichever well flowed through _____ = _____ psia (l)
Flowing Temp. (Meter Run) 86 °F + 460 _____ = _____ °Abs (m)
P_d = ½ P_c = ½ (l) _____ = _____ psia (n)

FLOW RATE CALCULATION

Q = 3552 X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) =$ _____ MCF/da
(Integrated)

DELIVERABILITY CALCULATION

D = Q 3552 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n$ 1.4392 = 3079 MCF/da.

SUMMARY

P_c = 1114 psia
Q = 3552 Mcf/day
P_w = 815 psia
P_d = 397 psia
D = 3079 Mcf/day

Company Geological, Inc
By W. J. McCoskey W. J. McCoskey
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
<u>3552</u>	<u>.228</u>	<u>1114.54</u>	<u>254.972</u>	<u>409.400</u>	<u>644.172</u>	<u>815</u>



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