

CORRECTED COPY
Initial Delivery City
Test

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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 West Kutz Formation Picture Cliff County San Juan
Purchasing Pipeline Southern Union Gas Company Date Test Filed 4-24-63
Operator Ted White & Walter Piper Lease Eaton Well No. 77
Unit F Sec. 20 Twp. 29N Rge. 13W Pay Zone: From 1090 To 1117
Casing: OD 5 1/2 WT. 15.5 Set At 1090 Tubing: OD 1.315 WT. 1.68 T. Perf. 1114
Produced Through: Casing X Tubing _____ Gas Gravity: Measured .670 Estimated _____
Date of Flow Test: From 2-22-63 To 3-1-63 * Date S.I.P. Measured 3-9-63
Meter Run Size 4" Orifice Size .500 Type Chart Sq.Rt. Type Taps _____

OBSERVED DATA

Flowing casing pressure (Dwt) 126 psig + 12 = 138 psia (a)
Flowing tubing pressure (Dwt) 126 psig + 12 = 138 psia (b)
Flowing meter pressure (Dwt) 126 psig + 12 = 138 psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken):
Normal chart reading _____ psig + 12 = _____ psia (d)
Square root chart reading (5.2)² x spring constant 500 = 135 psia (d)
Meter error (c) - (d) or (d) - (c) ± = +3 psi (e)
Friction loss, Flowing column to meter:
(b) - (c) Flow through tubing: (a) - (c) Flow through casing = 0 psi (f)
Seven day average static meter pressure (from meter chart):
Normal chart average reading _____ psig + 12 = _____ psia (g)
Square root chart average reading (5.3)² x sp. const. 500 = 140 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 143 psia (h)
P_t = (h) + (f) = 143 psia (i)
Wellhead casing shut-in pressure (Dwt) 296 psig + 12 = 308 psia (j)
Wellhead tubing shut-in pressure (Dwt) 296 psig + 12 = 308 psia (k)
P_c = (j) or (k) whichever well flowed through = 308 psia (l)
Flowing Temp. (Meter Run) 39 °F + 460 = 499 ° Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 154 psia (n)

FLOW RATE CALCULATION

Q = 19 X $\left(\frac{\sqrt{(c)} = \underline{11.75} = \underline{1.0112}}{\sqrt{(d)} = \underline{11.62}} \right)^2 = \underline{19}$ MCF/da
(Integrated)

DELIVERABILITY CALCULATION

D = Q 19 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^{.85} = \underline{18}$ MCF/da.
 $\frac{71,148}{74,415} \cdot \frac{.9626}{.9561}$

SUMMARY

P_c = 308 psia
Q = 19 Mcf/day
P_w = 143 psia
P_d = 154 psia
D = 18 Mcf/day

Company Well Production Co.
By N.A. Neely
Title Agent & Tester
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 + P _w ²	P _w
			NONE			

RECEIVED
MAY 29 1963
OIL CON. DIST. 3

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