

NEW MEXICO OIL CONSERVATION COMMISSION WELL DELIVERABILITY TEST REPORT FOR 19 69

Form C122-A
Revised 1-1-68

POOL NAME Blanco	POOL SLOPE n = .85	FORMATION PC	COUNTY San Juan
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87-029

COMPANY El Paso Natural Gas Co.			WELL NAME AND NUMBER Woodriver No. 3		
UNIT LETTER E	SECTION 5	TOWNSHIP 30	RANGE 9	PURCHASING PIPELINE EPNG	
CASING O.D. - INCHES 2.875	CASING I.D. - INCHES 2.441	SET AT DEPTH - FEET 3153	TUBING O.D. - INCHES no tubing	TUBING I.D. - INCHES	TOP - TUBING PERF. - FEET
GAS PAY ZONE FROM 3060 TO 3092		WELL PRODUCING THRU CASING xx TUBING		GAS GRAVITY .662	GRAVITY X LENGTH 2026
DATE OF FLOW TEST FROM 9-14-69 TO 9-22-69			DATE SHUT-IN PRESSURE MEASURED 9-27-69		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) --	(b) Flowing Tubing Pressure (DWt) --	(c) Flowing Meter Pressure (DWt) --	(d) Flow Chart Static Reading --	(e) Meter Error (Item c - Item d) 0	(f) Friction Loss (a-c) or (b-c) 0	(g) Average Meter Pressure (Integr.) 248 260
(h) Corrected Meter Pressure (g+e) 260 ✓	(i) Avg. Wellhead Press. $P_t = (h+f)$ 260 ✓	(j) Shut-in Casing Pressure (DWt) 905	(k) Shut-in Tubing Pressure (DWt) --	(l) P_c = higher value of (j) or (k) 905 ✓	(m) Del. Pressure $P_d = \frac{80}{724} P_c$ 80 724	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 152	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 152 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$ Friction Neg.	$(F_c Q_m)^2 (1000)$	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$	P_t^2	$P_w^2 = P_t^2 + R^2$ Use P_t^2	$P_w = \sqrt{P_w^2}$ 260
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DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{152}{\left[\frac{294849}{751425} \right]^n} = \frac{152}{0.3923} = 69 \text{ MCF/D}$$

REMARKS:

New well 1st del. July 18, 1969

SUMMARY

Item h **260** Psia
 P_c **905** Psia
 Q **152** MCF/D
 P_w **260** Psia
 P_d **724** Psia
 D **69** MCF/D

Company **El Paso Natural Gas Co.**
 By **A. E. McInally**
 Title _____
 Witnessed By _____
 Company _____

