

NEW MEXICO OIL CONSERVATION COMMISSION
INITIAL WELL DELIVERABILITY TEST REPORT FOR 19 67

Form C122-A
 Revised 1-1-66

POOL NAME Blanco	POOL SLOPE n= .75	FORMATION Mesa Verde	COUNTY San Juan
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COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER Mudge No. 4-Y		
UNIT LETTER A	SECTION 1	TOWNSHIP 31	RANGE 11	PURCHASING PIPELINE El Paso Natural Gas Company	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 5400	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 5283
GAS PAY ZONE FROM 4626 TO 5066		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY .668	GRAVITY X LENGTH 3529 ✓
DATE OF FLOW TEST FROM 3-19-67 TO 3-27-67			DATE SHUT-IN PRESSURE MEASURED 12-16-66		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 483	(b) Flowing Tubing Pressure (DWt) 483	(c) Flowing Meter Pressure (DWt) 917	(d) Flow Chart Static Reading 917	(e) Meter Error (Item c - Item d) 917 ✓	(f) Friction Loss (a - c) or (b - c) 734 ✓	(g) Average Meter Pressure (Integr.) 483
(h) Corrected Meter Pressure (g + e) 483	(i) Avg. Wellhead Press. $P_t = (h + f)$ 483	(j) Shut-in Casing Pressure (DWt) 917	(k) Shut-in Tubing Pressure (DWt) 917	(l) P_c = higher value of (j) or (k) 917 ✓	(m) Del. Pressure $P_d = \frac{80}{734} \% P_c$ 734 ✓	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 1865	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 1865 ✓ MCF/D
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WORKING PRESSURE CALCULATION

$(1 - e^{-s})$.226 ✓	$(F_c Q_m)^2 (1000)$ 307476	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$ 69490	P_t^2 233289 ✓	$P_w^2 = P_t^2 + R^2$ 302779	$P_w = \sqrt{P_w^2}$ 550 ✓
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$	1865	$\left[\frac{302133}{538389} \right]^n =$	$\left(\frac{5614}{5611} \right)^n =$	.6483	$=$	1209 ✓ MCF/D
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REMARKS:

New Well First Delivered 3-3-67.

SUMMARY

Item h **483** ✓ Psia
 P_c **917** ✓ Psia
 Q **1865** ✓ MCF/D
 P_w **550** ✓ Psia
 P_d **734** ✓ Psia
 D **1209** ✓ MCF/D

Company **El Paso Natural Gas Company**
 By **H. L. Kendrick**
 Title **Regional Well Test Engineer**
 Witnessed By **[Signature]**
 Company **[Signature]**

