

Initial
Deliverability

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 Pictured Cliffs	COUNTY San Juan
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87032

COMPANY El Paso Natural Gas Co.			WELL NAME AND NUMBER Pierce No. 5		
UNIT LETTER F	SECTION 17	TOWNSHIP 30 N	RANGE 9 W	PURCHASING PIPELINE	
CASING O.D. - INCHES 2.875	CASING I.D. - INCHES 2.441	SET AT DEPTH - FEET 3113	TUBING O.D. - INCHES	TUBING I.D. - INCHES	TOP - TUBING PERF. - FEET
GAS PAY ZONE FROM 3043 TO 3055		WELL PRODUCING THRU CASING XX TUBING		GAS GRAVITY .664	GRAVITY X LENGTH 2021
DATE OF FLOW TEST FROM 9-20-69 TO 9-28-69			DATE SHUT-IN PRESSURE MEASURED 6-27-69		

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)	(f) Friction Loss (a-c) or (b-c)	(g) Average Meter Pressure (Integr.)
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(h) Corrected Meter Pressure (g+e)	(i) Avg. Wellhead Press. $P_f = (h+f)$	(j) Shut-in Casing Pressure (DWt)	(k) Shut-in Tubing Pressure (DWt)	(l) P_c = higher value of (i) or (k)	(m) Del. Pressure $P_d = \frac{80}{\%P_c}$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only
240	240	629	---	629	503	

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D	Quotient of $\frac{\text{Item c}}{\text{Item d}}$	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$	Corrected Volume
572	1.0000	1.0000	q = 572 MCF/D

WORKING PRESSURE CALCULATION

$(1-e^{-s})$.137	$(F_c Q_m)^2 (1000)$ 10081	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 1381	P_i^2 57600	$P_w^2 = P_i^2 + R^2$ 58981	$P_w = \sqrt{P_i^2}$ 243
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$	572	$\left[\frac{142632}{336660} \right]^n =$	$.4237^n =$	.4820	$=$	276 MCF/D
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REMARKS: New Well 1st Del. July 22, 1969.

SUMMARY

Item h	240	Psia
P_c	629	Psia
Q	572	MCF/D
P_w	243	Psia
P_d	503	Psia
D	276	MCF/D

Company **El Paso Natural Gas Co.**

By *[Signature]*

Title

Witnessed By

Company

