

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 PC	COUNTY San Juan
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COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER Pierce No. 8		
UNIT LETTER 0	SECTION 8	TOWNSHIP 30	RANGE 9	PURCHASING PIPELINE EPNG	
CASING O.D. - INCHES 2.875	CASING I.D. - INCHES 2.441	SET AT DEPTH - FEET 3087	TUBING O.D. - INCHES no tubing	TUBING I.D. - INCHES	TOP - TUBING PERF. - FEET
GAS PAY ZONE		WELL PRODUCING THRU		GAS GRAVITY	GRAVITY X LENGTH
FROM 3024 TO 3044		CASING XXX TUBING		.674	2038
DATE OF FLOW TEST FROM 8-13-69 TO 8-21-69			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) 0-	(f) Friction Loss (a-c) or (b-c) 0	(g) Average Meter Pressure (Integr.) 250 270
(h) Corrected Meter Pressure (g+e) 270	(i) Avg. Wellhead Press. $P_f = (h+f)$ 270	(j) Shut-in Casing Pressure (DWt) 780	(k) Shut-in Tubing Pressure (DWt)	(l) $P =$ higher value of (j) or (k) 780	(m) Del. Pressure $P_d = \frac{80}{624} \% P_c$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 285	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume $Q = 285$ MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$.138	$(F_c Q_m)^2 (1000)$ 2503	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 345	P_t^2 72900	$P_w^2 = P_t^2 + R^2$ 73245	$P_w = \sqrt{P_w^2}$ 271
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$	285	$\left[\frac{219024}{535155} \right]^n =$	$(0.4092)^n =$	0.4679	$=$	133 MCF/D
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REMARKS:

New Well first delivery July 18, 1969.

SUMMARY

Item h 270 Psia
P_c 780 Psia
Q 285 MCF/D
P_w 271 Psia
P_d 624 Psia
D 133 MCF/D

Company El Paso Natural Gas Company

By

Title

Witnessed By

Company

1.007Q

