

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	
87-015					
COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER Pierce No. 7		
UNIT LETTER G	SECTION 7	TOWNSHIP 30	RANGE 9	PURCHASING PIPELINE EPIC	
CASING O.D. - INCHES 2.875	CASING I.D. - INCHES 2.441	SET AT DEPTH - FEET 3276	TUBING O.D. - INCHES no tubing	TUBING I.D. - INCHES	TOP - TUBING PERF. - FEET
GAS PAY ZONE FROM 3200 TO 3220		WELL PRODUCING THRU CASING XX TUBING		GAS GRAVITY .665	GRAVITY X LENGTH 2122
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.) 273 285
(h) Corrected Meter Pressure (g+e) 285	(i) Avg. Wellhead Press. $P_1 = (h+f)$ 285	(j) Shut-in Casing Pressure (DWt) 793	(k) Shut-in Tubing Pressure (DWt) --	(l) P_c = higher value of (i) or (k) 793	(m) Del. Pressure $P_d = 80$ $634 \rightarrow P_c$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 2264	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume $Q = 2264$ MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$.143	$(F_c Q_m)^2 (1000)$ 157940	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 22585	P_t^2 81225	$P_w^2 = P_t^2 + R^2$ 103810	$P_w = \sqrt{P_w^2}$ 322
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DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = 2264 \left[\frac{226893}{525039} \right]^n = 0.4321^n = 0.4901 = 1110 \text{ MCF/D}$$

REMARKS:

New Well first Delivery July 14, 1969

SUMMARY

Item h 285 Psia
 P_c 793 Psia
 Q 2264 MCF/D
 P_w 322 Psia
 P_d 634 Psia
 D 1110 MCF/D

Company El Paso Natural Gas Company
 By R. E. Stauffer
 Title _____
 Witnessed By _____
 Company _____

