

Initial
Deliverability

NEW MEXICO OIL CONSERVATION COMMISSION WELL DELIVERABILITY TEST REPORT FOR 19 68

Form C122-A
Revised 1-1-68

POOL NAME SO BLANCO	POOL SLOPE $n = .85$	FORMATION PC	COUNTY SJ
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75-707

COMPANY EL PASO NATURAL GAS CO			WELL NAME AND NUMBER RUSSELL #6 PC		
UNIT LETTER M	SECTION 25	TOWNSHIP 28	RANGE 8	PURCHASING PIPELINE EL PASO NATURAL GAS CO.	
CASING O.D. - INCHES 2.875	CASING I.D. - INCHES 2.441	SET AT DEPTH - FEET 2491	TUBING O.D. - INCHES 0.000	TUBING I.D. - INCHES 0.000	TOP - TUBING PERF. - FEET 0
GAS PAY ZONE		WELL PRODUCING THRU		GAS GRAVITY	GRAVITY X LENGTH
FROM 2360	TO 2388	CASING X	TUBING	0.658	1553
DATE OF FLOW TEST FROM 01/06/68 TO 01/14/68			DATE SHUT-IN PRESSURE MEASURED 09/27/67		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 0	(b) Flowing Tubing Pressure (DWt) 0	(c) Flowing Meter Pressure (DWt) 0	(d) Flow Chart Static Reading 0	(e) Meter Error (Item c - Item d) 0	(f) Friction Loss (a-c) or (b-c) 0	(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) 1058	(k) Shut-in Tubing Pressure (DWt) 0	(l) $P_c =$ higher value of (j) or (k) 1058	(m) Del. Pressure $P_d = 80\% P_c$ 846	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 369	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume $Q =$ 369 MCF/D
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5.551

WORKING PRESSURE CALCULATION

$(1-e^{-s})$.107	$(F_c Q_m)^2 (1000)$ 4.194	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 449	P_t^2 233289	$P_w^2 = P_t^2 + R^2$ USE PT2	$P_w = \sqrt{P_w^2}$ 483
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 369	$\left[\frac{403648}{886075} \right]^n =$ 0.4555	$\left[\frac{0.5125}{0.4555} \right]^n =$ 0.5125	189 MCF/D
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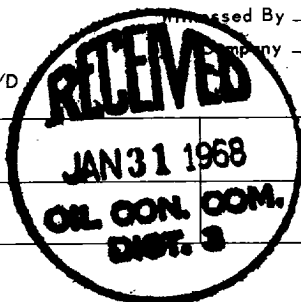
REMARKS:

New Well - First Delivered 12-8-67

SUMMARY

Item h **483** Psia
 P_c **1058** Psia
 Q **369** MCF/D
 P_w **483** Psia
 P_d **846** Psia
 D **189** MCF/D

Company **EL PASO NATURAL GAS CO**
 By **H.L. Kendrick**
 Title **Regional Well Test Engineer**
 Witnessed By
 Company



NEW MEXICO OIL CONSERVATION COMMISSION

REPORT OF THE COMMISSION FOR THE YEAR 1938

1938

