

Deliverable

NEW MEXICO OIL CONSERVATION COMMISSION WELL DELIVERABILITY TEST REPORT FOR 19 69

Form C122-A
Revised 1-1-68

POOL NAME South Blanco	POOL SLOPE n = .85	FORMATION Pictured Cliffs	COUNTY San Juan
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75-923

COMPANY El Paso Natural Gas			WELL NAME AND NUMBER Russell No. 7		
UNIT LETTER J	SECTION 25	TOWNSHIP 28	RANGE 8	PURCHASING PIPELINE El Paso Natural Gas	
CASING O.D. - INCHES 2.875	CASING I.D. - INCHES 2.441	SET AT DEPTH - FEET 2870	TUBING O.D. - INCHES No tubing	TUBING I.D. - INCHES	TOP - TUBING PERF. - FEET
GAS PAY ZONE FROM 2750 TO 2774		WELL PRODUCING THRU CASING XX TUBING		GAS GRAVITY .617	GRAVITY X LENGTH 1697
DATE OF FLOW TEST FROM 1-11-69 TO 1-19-69			DATE SHUT-IN PRESSURE MEASURED 11-12-68		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 511	(b) Flowing Tubing Pressure (DWt) 511	(c) Flowing Meter Pressure (DWt) 1027	(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.) 511
(h) Corrected Meter Pressure (g+e) 511	(i) Avg. Wellhead Press. $P_t = (h+f)$ 511	(j) Shut-in Casing Pressure (DWt) 1027	(k) Shut-in Tubing Pressure (DWt)	(l) P_m - higher value of (i) or (k) 1027	(m) Del. Pressure $P_d = \frac{80}{822} \% P_c$ 80	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 191	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 191 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$ Friction Neg.	$(F_c Q_m)^2 (1000)$	$(1-e^{-s}) (F_c Q_m)^2 (1000)$	P_t^2	$P_w^2 = P_t^2 + R^2$ Use P_t^2	$P_w = \sqrt{P_w^2}$ 511
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 191	$\left(\frac{379045}{793608} \right)^n =$.4776	$=$ 102 MCF/D
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REMARKS:

New well first delivered 12-20-68

SUMMARY

Item h **511** Psia
 P_c **1027** Psia
 Q **191** MCF/D
 P_w **511** Psia
 P_d **822** Psia
 D **102** MCF/D

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

