

Initial
Deliverability

NEW MEXICO CONSERVATION COMMISSION
WELL DELIVERABILITY TEST REPORT FOR 19 71

Form C122-A
Revised 1-1-68

87-262

POOL NAME Basin	POOL SIZE n = .75	FORMATION DK	COUNTY RA
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COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER San Juan 27-5 Unit No. 79		
UNIT LETTER B	SECTION 27	TOWNSHIP 27	RANGE 5	PURCHASING PIPELINE EPNG	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 7741	TUBING O.D. - INCHES 1.900	TUBING I.D. - INCHES 1.610	TOP OF TUBING DEPTH - FEET 7660
GAS PAY ZONE FROM 7454 TO 7676		WELL PRODUCING THRU CASING TUBING XXX		GAS GRAVITY .646	GRAVITY X LENGTH 4948
DATE OF FLOW TEST FROM 8-8-71 TO 8-16-71			DATE SHUT-IN PRESSURE MEASURED 5-18-71		

PRESSURE - 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.) 348
(h) Corrected Meter Pressure (g+e) 348	(i) Avg. Wellhead Press. $P_t = (h + f)$ 348	(j) Shut-in Casing Pressure (DWt) 2547	(k) Shut-in Tubing Pressure (DWt) 2616	(l) $P =$ higher value of (j) or (k) 2616	(m) Del. Pressure $P_d = 50\% P_c$ 1308	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 895	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 895 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$.302	$(F_c Q_m)^2 (1000)$ 217023	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 65541	P_t^2 121104	$P_w^2 = P_t^2 + R^2$ 186645	$P_w = \sqrt{P_w^2}$ 432
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DELIVERABILITY CALCULATION

$D = C \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$	895	$\left[\frac{5132592}{6656411} \right]^n = (.7710)^n =$	$.8228^1 =$	736 MCF/D
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REMARKS:

New well, 1st del. 7-19-71/

SUMMARY 0^K

Item h 348 Psia
P_c 2616 Psia
Q 895 MCF/D
P_w 432 Psia
P_d 1308 Psia
D 736 MCF/D

Company _____
By *H. E. McAnally*
Title _____
Witnessed By _____
Company _____

