

Initial
deliverability Te-

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

Form C122-A
Revised 1-1-68

POOL NAME Basin	POOL SLOPE n = .75	FORMATION Dakota	COUNTY Rio Arriba
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87052

COMPANY El Paso Natural Gas Co.		WELL NAME AND NUMBER S. J. 27-5 Unit No. 116			
UNIT LETTER A	SECTION 24	TOWNSHIP T-27-N	RANGE R-5-W	PURCHASING PIPELINE	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 7045	TUBING O.D. - INCHES 1.990	TUBING I.D. - INCHES 1.610	TOP - TUBING PERF. - FEET 7787
GAS PAY ZONE FROM 7618 TO 7822		WELL PRODUCING THRU CASING TUBING XX		GAS GRAVITY .683	GRAVITY X LENGTH 5319
DATE OF FLOW TEST FROM 9-27-69 TO 10-5-69			DATE SHUT-IN PRESSURE MEASURED 7-1-69		

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)	(f) Friction Loss (a-c) or (b-c)	(g) Average Meter Pressure (Integr.)
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(h) Corrected Meter Pressure (g+e)	(i) Avg. Wellhead Press. $P_w = (h+f)$	(j) Shut-in Casing Pressure (DWt)	(k) Shut-in Tubing Pressure (DWt)	(l) P_c = higher value of (i) or (k)	(m) Del. Pressure $P_d = 50$ MPc	(n) Separator or Dehydrator Pr. (DWt) for critical flow only
431	431	2503	2322	2503	1252	

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D	Quotient of $\frac{\text{Item c}}{\text{Item d}}$	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$	Corrected Volume
471	1.0000	1.0000	Q = 471 MCF/D

WORKING PRESSURE CALCULATION

$(1-s)^2$. 321	$(F_c Q_m)^2 (1000)$ 60104	$R^2 = (1-s)^2 (F_c Q_m)^2 (1000)$ 19293	P_i^2 185,761	$P_w^2 = P_i^2 + R^2$ 205054	$P_w = \sqrt{P_w^2}$ 453
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n$	471	$\left(\frac{4697505}{6059955} \right)^n$	$(.7752)^n$	.8261	389 MCF/D
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REMARKS: **New Well 1st Del. August 22, 1969.**

SUMMARY

Item h **431** Psia
 P_c **2503** Psia
 Q **471** MCF/D
 P_w **453** Psia
 P_d **1252** Psia
 D **389** MCF/D

Company **El Paso Natural Gas**

By **[Signature]**

Title **[Signature]**

Witnessed By **[Signature]**

Company **[Signature]**

