

NEW MEXICO OIL CONSERVATION COMMISSION
WELL DELIVERABILITY TEST REPORT FOR 19 69Form C122-A
Revised 1-1-68

POOL NAME Basin	POOL SLOPE n = .75	FORMATION Dakota	COUNTY Rio Arriba
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86610

COMPANY El Paso Natural Gas Co.			WELL NAME AND NUMBER S. J. 27-5 Unit No. 113		
UNIT LETTER A	SECTION 10	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 8642	TUBING O.D. - INCHES 1.660	TUBING I.D. - INCHES 1.380	TOP - TUBING PERF. - FEET 8551
GAS PAY ZONE FROM 8368 TO 8585		WELL PRODUCING THRU CASING TUBING xx		GAS GRAVITY .678	GRAVITY X LENGTH 5798
DATE OF FLOW TEST FROM 9-19-69 TO 9-27-69			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) 0	(f) Friction Loss (a-c) or (b-c) 0	(g) Average Meter Pressure (Integr.) 451
(h) Corrected Meter Pressure (g+e) 451	(i) Avg. Wellhead Press. $P_f = (h+f)$ 451	(j) Shut-in Casing Pressure (DWt) 2504	(k) Shut-in Tubing Pressure (DWt) 2507	(l) $P_c =$ higher value of (j) or (k) 2507	(m) Del. Pressure $P_d = 50$ % P_c 1254	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 700	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume $Q =$ 700 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$.344	$(F_c Q_m)^2 (1000)$ 297011	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 102172	P_i^2 203,401	$P_w^2 = P_i^2 + R^2$ 305,573	$P_w = \sqrt{P_w^2}$ 553
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 700	$\left[\frac{4712533}{5979476} \right]^n =$.7881	$=$.8365	$=$ 586 MCF/D
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REMARKS: **New Well 1st Del. August 21, 1969.**

SUMMARY

Item h	451	Psia
P_c	2507	Psia
Q	700	MCF/D
P_w	553	Psia
P_d	1254	Psia
D	586	MCF/D

Company **El Paso Natural Gas Co.**
 By **[Signature]**
 Title _____
 Witnessed By _____
 Company _____

