

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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87072

COMPANY El Paso Natural Gas Co.			WELL NAME AND NUMBER S. J. 27-5 Unit No. 114		
UNIT LETTER A	SECTION 17	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 7768	TUBING O.D. - INCHES 1.990	TUBING I.D. - INCHES 1.610	TOP - TUBING PERF. - FEET 7691
GAS PAY ZONE FROM 7496 TO 7713		WELL PRODUCING THRU CASING XX TUBING XX		GAS GRAVITY .678	GRAVITY X LENGTH 5214
DATE OF FLOW TEST FROM 9-19-69 TO 9-27-69			DATE SHUT-IN PRESSURE MEASURED 8-6-69		

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.) 439
(h) Corrected Meter Pressure (g+e) 439	(i) Avg. Wellhead Press. $P_f = (h+f)$ 439	(j) Shut-in Casing Pressure (DWt) 2624	(k) Shut-in Tubing Pressure (DWt) 1434	(l) $P_c =$ higher value of (j) or (k) 2624	(m) Del. Pressure $P_d = 50$ % P_c 1312	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 2109	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume $Q = 2109$ MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$.316	$(F_c Q_m)^2 (1000)$ 1205072	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 380803	P_t^2 192721	$P_w^2 = P_t^2 + R^2$ 573524	$P_w = \sqrt{P_w^2}$ 757
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 2109	$\left[\frac{5164032}{6311852} \right]^n =$.8181	$=$.8602	$=$ 1814 MCF/D
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REMARKS: 1st Del. September 17, 1969.

SUMMARY

Item h **439** Psia
 P_c **2624** Psia
 Q **2109** MCF/D
 P_w **757** Psia
 P_d **1312** Psia
 D **1814** MCF/D

Company **El Paso Natural Gas Co.**By **RE Shaffer**

Title

Witnessed By

Company

