

NEW MEXICO OIL CONSERVATION COMMISSION
INITIAL WELL DELIVERABILITY TEST REPORT FOR 19 66

Form C128-A
Revised 1-1-66

POOL NAME Basin		POOL SLOPE n = .75	FORMATION Dakota		COUNTY Rio Arriba
86-546					
COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER San Juan 29-6 Unit No. 93		
UNIT LETTER B	SECTION 16	TOWNSHIP 29	RANGE 6	PURCHASING PIPELINE El Paso Natural Gas Company	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.000	SET AT DEPTH - FEET 8090	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 8042
GAS PAY ZONE FROM 8024 TO 8076		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY .596	GRAVITY X LENGTH 4793 ✓
DATE OF FLOW TEST FROM 6-18-66 TO 6-26-66			DATE SHUT-IN PRESSURE MEASURED 11-08-65		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 477	(b) Flowing Tubing Pressure (DWt) 477	(c) Flowing Meter Pressure (DWt) 2495	(d) Flow Chart Static Reading 2492	(e) Meter Error (Item c - Item d) 2495	(f) Friction Loss (a - c) or (b - c) 1248	(g) Average Meter Pressure (Integr.) 477
(h) Corrected Meter Pressure (g + e) 477	(i) Avg. Wellhead Press. $P_t = (h + f)$ 477	(j) Shut-in Casing Pressure (DWt) 2495	(k) Shut-in Tubing Pressure (DWt) 2492	(l) P_c = higher value of (j) or (k) 2495	(m) Del. Pressure $P_d = \frac{50}{1248} \% P_c$ 1248	(n) Separator or Dehydrator Pr. (DWt) for critical flow only -

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 319	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 319 MCF/D
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WORKING PRESSURE CALCULATION

$(1 - e^{-s})$.294	$(F_c Q_m)^2 (1000)$ 8,994	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$ 2,644	P_t^2 227,529	$P_w^2 = P_t^2 + R^2$ 230,173	$P_w = \sqrt{P_w^2}$ 480
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 319	$\left[\frac{4667521}{5994852} \right]^n =$.7785	$\left[\frac{4667521}{5994852} \right]^n =$.8288	$=$ 264 MCF/D
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REMARKS:

New Well.
First Delivered 5-17-66.

SUMMARY

Item h	477	Psia
P_c	2495	Psia
Q	319	MCF/D
P_w	480	Psia
P_d	1248	Psia
D	264	MCF/D

Company **EL PASO NATURAL GAS COMPANY**
By **[Signature]**
Title **Regional Gas Well Test Engineer**
Witnessed By _____
Company _____

