

NEW MEXICO OIL CONSERVATION COMMISSION
INITIAL WELL DELIVERABILITY TEST REPORT FOR 1967

Form C122-A
Revised 1-1-66

POOL NAME Basin	POOL SLOPE n = .75	FORMATION Dakota	COUNTY Rio Arriba
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86-552

COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER San Juan 28-6 Unit No. 124		
UNIT LETTER K	SECTION 22	TOWNSHIP 28	RANGE 6	PURCHASING PIPELINE El Paso Natural Gas Company	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.050	SET AT DEPTH - FEET KB	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 7807
GAS PAY ZONE FROM 7611 TO 7822		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY .627	GRAVITY X LENGTH 4895
DATE OF FLOW TEST FROM 3-15-67 TO 5-23-67			DATE SHUT-IN PRESSURE MEASURED 12-13-66		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 497	(b) Flowing Tubing Pressure (DWt) 497	(c) Flowing Meter Pressure (DWt) 2487	(d) Flow Chart Static Reading 2508	(e) Meter Error (Item c - Item d) 2508	(f) Friction Loss (a - c) or (b - c) 1254	(g) Average Meter Pressure (Integr.) 497
(h) Corrected Meter Pressure (g + e) 497	(i) Avg. Wellhead Press. $P_t = (h + f)$ 497	(j) Shut-in Casing Pressure (DWt) 2487	(k) Shut-in Tubing Pressure (DWt) 2508	(l) $P_c =$ higher value of (j) or (k) 2508	(m) Del. Pressure $P_d = \frac{50}{1254} \% P_c$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 1033	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 1033 MCF/D
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WORKING PRESSURE CALCULATION

$(1 - e^{-s})$.299	$(F_c Q_m)^2 (1000)$ 74328 84131	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$ 28204 25.155	P_t^2 247009	$P_w^2 = P_t^2 + R^2$ 275213 272164	$P_w = \sqrt{P_w^2}$ 522
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = 1033 \left[\frac{4717548}{6017900} \right]^n = \frac{7843}{.7839} = \frac{8335}{.8331} = 861$ MCF/D
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REMARKS:

New Well First Delivered 2-28-67.

SUMMARY

Item h 497 Psia
P_c 2508 Psia
Q 1033 MCF/D
P_w 525 522 Psia
P_d 1254 Psia
D 861 MCF/D

Company El Paso Natural Gas Company
By M. L. Kendrick
Title Regional Well Test Engineer
Witnessed By
Company

