

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

Form C122-A
Revised 1-1-66

POOL NAME Tapacito	POOL SLOPE n= .85	FORMATION Pictured cliffs	COUNTY Rio Arriba
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86568

COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER Jicarilla 92 No. 5		
UNIT LETTER 0	SECTION 31	TOWNSHIP 27	RANGE 3	PURCHASING PIPELINE El Paso Natural Gas Company	
CASING O.D. - INCHES 2.875	CASING I.D. - INCHES 2.441	SET AT DEPTH - FEET 3944	TUBING O.D. - INCHES NO TUBING	TUBING I.D. - INCHES	TOP - TUBING PERF. - FEET
GAS PAY ZONE FROM 3808 TO 3882		WELL PRODUCING THRU CASING X TUBING		GAS GRAVITY .658	GRAVITY X LENGTH 2506
DATE OF FLOW TEST FROM 10-15-67 TO 10-23-67			DATE SHUT-IN PRESSURE MEASURED 9-9-67		

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.) 498
(h) Corrected Meter Pressure (g + e) 498	(i) Avg. Wellhead Press. $P_t = (h + f)$ 498	(j) Shut-in Casing Pressure (DWt) 1108	(k) Shut-in Tubing Pressure (DWt)	(l) P_c = higher value of (j) or (k) 1108	(m) Del. Pressure $P_d = \frac{80}{886} P_c$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 249	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 249 MCF/D
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WORKING PRESSURE CALCULATION

$(1 - e^{-s})$	$(F_c Q_m)^2 (1000)$	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$	P_t^2	$P_w^2 = P_t^2 + R^2$	$P_w = \sqrt{P_w^2}$ Use P_t^2
FRICTION NEGLIGIBLE					

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = 249 \left[\frac{442668}{979660} \right]^n \left(\frac{.4518}{.5085} \right)^n = 127 \text{ MCF/D}$$

REMARKS:

New well first delivered 9-27-67.

OK

SUMMARY

Item h 498 Psia
~~505~~
 P_c 1108 Psia
 Q 249 MCF/D
 P_w 498 Psia
 P_d 386 Psia
 D 127 MCF/D

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

