

in deliverability

NEW MEXICO OIL CONSERVATION COMMISSION **WELL DELIVERABILITY TEST REPORT FOR 19 69**

Form C122-A
Revised 1-1-68

POOL NAME Otero	POOL SLOPE n = .75	FORMATION Chacra	COUNTY Rio Arriba
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87079

COMPANY El Paso Natural Gas Co.			WELL NAME AND NUMBER Jicarilla 67 No. 12		
UNIT LETTER D	SECTION 19	TOWNSHIP 25	RANGE 5	PURCHASING PIPELINE EPNG	
CASING O.D. - INCHES 2.875	CASING I.D. - INCHES 2.441	SET AT DEPTH - FEET 3565	TUBING O.D. - INCHES no tubing	TUBING I.D. - INCHES	TOP - TUBING PERF. - FEET
GAS PAY ZONE FROM 3390 TO 3498		WELL PRODUCING THRU CASING XX TUBING		GAS GRAVITY .728	GRAVITY X LENGTH 2468
DATE OF FLOW TEST FROM 10-27-69 TO 11-04-69			DATE SHUT-IN PRESSURE MEASURED 8-21-69		

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.) 519
(h) Corrected Meter Pressure (g+e) 519	(i) Avg. Wellhead Press. $P_i = (h+f)$ 519	(j) Shut-in Casing Pressure (DWt) 697	(k) Shut-in Tubing Pressure (DWt) --	(l) P_c = higher value of (j) or (k) 697	(m) Del. Pressure $P_d = \frac{80}{558} \% P_c$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 56	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 56 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$.164	$(F_c Q_m)^2 (1000)$ friction neg. use P_t^2	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 269361	P_i^2 269361	$P_w^2 = P_i^2 + R^2$ 519	$P_w = \sqrt{P_w^2}$
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 56	$\left[\frac{174445}{216448} \right]^n =$.8059	$\left[\frac{.8059}{.8506} \right]^n =$.8506	$=$ 48 MCF/D
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REMARKS: **New Well 1st Delivery Oct. 2, 1969.**

SUMMARY

Item h **519** Psia
 P_c **697** Psia
 Q **56** MCF/D
 P_w **519** Psia
 P_d **558** Psia
 D **48** MCF/D

Company **El Paso Natural Gas Co.**
 By **R. E. Stauffer**
 Title _____
 Witnessed By _____
 Company _____

