

NEW MEXICO OIL CONSERVATION COMMISSION
INITIAL WELL DELIVERABILITY TEST REPORT FOR 19 68

Form CI22-A
Revised 1-1-66

POOL NAME <u>Basin</u>	POOL SLOPE n = <u>.75</u>	FORMATION <u>DK</u>	COUNTY <u>Rio Arriba</u>
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75690

COMPANY <u>El Paso Natural Gas Company</u>			WELL NAME AND NUMBER <u>San Juan 28-5 Unit No. 45</u>		
UNIT LETTER <u>G</u>	SECTION <u>36</u>	TOWNSHIP <u>28</u>	RANGE <u>5</u>	PURCHASING PIPELINE <u>El Paso Natural Gas Company</u>	
CASING O.D. - INCHES <u>4.500</u>	CASING I.D. - INCHES <u>4.052</u>	SET AT DEPTH - FEET <u>8104</u>	TUBING O.D. - INCHES <u>2.375</u>	TUBING I.D. - INCHES <u>1.995</u>	TOP - TUBING PERF. - FEET <u>7863</u>
GAS PAY ZONE FROM <u>7886</u> TO <u>8072</u>		WELL PRODUCING THRU CASING _____ TUBING <u>X</u>		GAS GRAVITY <u>.678</u>	GRAVITY X LENGTH <u>5331</u>
DATE OF FLOW TEST FROM <u>12-19-67</u> TO <u>12-27-67</u>			DATE SHUT-IN PRESSURE MEASURED <u>9-14-67</u>		

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.) <u>548</u>
(h) Corrected Meter Pressure (g * e) <u>548</u>	(i) Avg. Wellhead Press. $P_t = (h + f)$ <u>548</u>	(j) Shut-in Casing Pressure (DWt) <u>2551</u>	(k) Shut-in Tubing Pressure (DWt) <u>2549</u>	(l) P_c = higher value of (j) or (k) <u>2551</u>	(m) Del. Pressure $P_d = \frac{50}{1276} \% P_c$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D <u>290</u>	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ <u>1.0000</u>	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ <u>1.0000</u>	Corrected Volume Q = <u>290</u> MCF/D
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WORKING PRESSURE CALCULATION

$(1 - e^{-s})$ <u>.321</u>	$(F_c Q_m)^2 (1000)$ <u>7437</u>	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$ <u>2387</u>	P_t^2 <u>300304</u>	$P_w^2 = P_t^2 + R^2$ <u>302691</u>	$P_w = \sqrt{P_w^2}$ <u>550</u>
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$	<u>290</u>	$\left[\frac{4879425}{6204910} \right]^n =$	$\left(\frac{.7863}{.8350} \right)^n =$	<u>.3350</u>	$=$	<u>242</u> MCF/D
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REMARKS:

New Well First Delivered 11-2-67. Well shut in during original flow week due to Gasbuggy detonation.

SUMMARY

Item h 548 Psia
P_c 2551 Psia
Q 290 MCF/D
P_w 550 Psia
P_d 1276 Psia
D 242 MCF/D

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

