

Initial deliverability

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

Form CI 22-A
Revised 1-1-68

POOL NAME Basin	POOL SLOPE n = .75	FORMATION Dakota	COUNTY Rio Arriba
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75-890

COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER San Juan 27-4 Unit No. 44		
UNIT LETTER H	SECTION 18	TOWNSHIP 27	RANGE 4	PURCHASING PIPELINE El Paso Natural Gas Company	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 7974	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 7668
GAS PAY ZONE FROM 7702 TO 7928		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY .667	GRAVITY X LENGTH 5115
DATE OF FLOW TEST FROM 11-19-68 TO 11-27-68			DATE SHUT-IN PRESSURE MEASURED 8-23-68		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 470	(b) Flowing Tubing Pressure (DWt) 470	(c) Flowing Meter Pressure (DWt) 2482	(d) Flow Chart Static Reading 2493	(e) Meter Error (Item c - Item d) 0	(f) Friction Loss (a-c) or (b-c) 0	(g) Average Meter Pressure (Integr.) 470
(h) Corrected Meter Pressure (g+e) 470	(i) Avg. Wellhead Press. P _w = (h+f) 470	(j) Shut-in Casing Pressure (DWt) 2482	(k) Shut-in Tubing Pressure (DWt) 2493	(l) P _c = higher value of (j) or (k) 2493	(m) Del. Pressure P _d = $\frac{50}{\%P_c} P_c$ 1247	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 2619	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 2619 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-5})$.311	$(F_c Q_m)^2 (1000)$ 606532	$R^2 = (1-e^{-5}) (F_c Q_m)^2 (1000)$ 188569	P_t^2 220900	$P_w^2 = P_t^2 + R^2$ 409469	$P_w = \sqrt{P_w^2}$ 640
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n$	$\frac{2619}{\left[\frac{4660040}{5805530} \right]^n} = \frac{2619}{.8026^n} = .8478$	$= 2220 \text{ MCF/D}$
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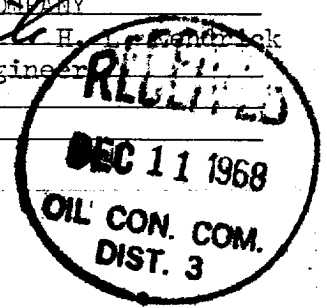
REMARKS:

New well first delivered 10-21-68.

SUMMARY

Item h	470	Psia
P _c	2493	Psia
Q	2619	MCF/D
P _w	640	Psia
P _d	1247	Psia
D	2220	MCF/D

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



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