

NEW MEXICO OIL CONSERVATION COMMISSION
INITIAL WELL DELIVERABILITY TEST REPORT FOR 19 67

Form C122-A
Revised 1-1-66

POOL NAME Basin	POOL SLOPE n = .75	FORMATION Dakota	COUNTY Rio Arriba
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86560

COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER SJ 27-5 Unit No. 106		
UNIT LETTER G	SECTION 1	TOWNSHIP 27	RANGE 5	PURCHASING PIPELINE El Paso Natural Gas Company	
CASING O.D. - INCHES 5.500	CASING I.D. - INCHES 4.950	SET AT DEPTH - FEET 8348	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 8397
GAS PAY ZONE FROM 8430 TO 8628		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY .678	GRAVITY X LENGTH 5693
DATE OF FLOW TEST FROM 9-6-67 TO 9-14-67			DATE SHUT-IN PRESSURE MEASURED 6-5-67		

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.) 456
(h) Corrected Meter Pressure (g + e) 456	(i) Avg. Wellhead Press. $P_t = (h + f)$ 456	(j) Shut-in Casing Pressure (DWt) 2448	(k) Shut-in Tubing Pressure (DWt) 2488	(l) P_c = higher value of (j) or (k) 2488	(m) Del. Pressure $P_d = 50\% P_c$ 1244	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 662	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 662 MCF/D
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WORKING PRESSURE CALCULATION

$(1 - e^{-s})$.339	$(F_c Q_m)^2 (1000)$ 38738	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$ 13132	P_t^2 207936	$P_w^2 = P_t^2 + R^2$ 221068	$P_w = \sqrt{P_w^2}$ 470
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = 662$	$\left[\frac{4642608}{5969076} \right]^{.7777} = .8281$	$= 548 \text{ MCF/D}$
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REMARKS:

New Well First Delivered 8/18/67

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SUMMARY

Item h	456	Psia
P_c	2488	Psia
Q	662	MCF/D
P_w	470	Psia
P_d	1244	Psia
D	548	MCF/D

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

