

Initial
Deliverability

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

Form C122-A
Revised 1-1-68

POOL NAME BASIN	POOL SLOPE n = .75	FORMATION DAKOTA	COUNTY RA
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75-898

COMPANY EL PASO NATURAL GAS CO.			WELL NAME AND NUMBER SJ 28-5 UNIT #78		
UNIT LETTER M	SECTION 25	TOWNSHIP 28	RANGE 5	PURCHASING PIPELINE EL PASO NATURAL GAS CO.	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 8274	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 8040
GAS PAY ZONE FROM 8054 TO 8248		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY 0.641	GRAVITY X LENGTH 5154
DATE OF FLOW TEST FROM 11/27/68 TO 12/05/68			DATE SHUT-IN PRESSURE MEASURED 08/14/68		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 0	(b) Flowing Tubing Pressure (DWt) 0	(c) Flowing Meter Pressure (DWt) 0	(d) Flow Chart Static Reading 0	(e) Meter Error (Item c - Item d) 0	(f) Friction Loss (a-c) or (b-c) 0	(g) Average Meter Pressure (Integr.) 463
(h) Corrected Meter Pressure (g+e) 463	(i) Avg. Wellhead Press. $P_t = (h+f)$ 463	(j) Shut-in Casing Pressure (DWt) 2715	(k) Shut-in Tubing Pressure (DWt) 2721	(l) P_c = higher value of (j) or (k) 2721	(m) Del. Pressure $P_d = 50\% P_c$ 1361	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 481	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 481 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$.313	$(F_c Q_m)^2 (1000)$ 20,448	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 6400	P_t^2 214369	$P_w^2 = P_t^2 + R^2$ 220769	$P_w = \sqrt{P_w^2}$ 470
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n$	481	$\left[\frac{5551520}{7183072} \right]^n$	$\left[0.7728 \right]^n$	0.8242	396 MCF/D
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REMARKS: **New Well First Delivered 11-1-68.**

SUMMARY

Item h **463** Psia
 P_c **2721** Psia
 Q **481** MCF/D
 P_w **470** Psia
 P_d **1361** Psia
 D **396** MCF/D

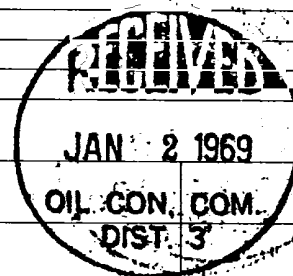
Company **EL PASO NATURAL GAS CO**

By _____

Title _____

Witnessed By _____

Company _____



68/12/24

3591 75-898

New Mexico Oil Conservation Board 11-1-69

