

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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75-847

COMPANY EL PASO NATURAL GAS CO			WELL NAME AND NUMBER SJ 27-5 UNIT #109		
UNIT LETTER B	SECTION 3	TOWNSHIP 27	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 7890	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 7649
GAS PAY ZONE FROM 7660 TO 7860		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY 0.631	GRAVITY X LENGTH 4827
DATE OF FLOW TEST FROM 10/02/68 TO 10/10/68			DATE SHUT-IN PRESSURE MEASURED 07/03/68		

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. $P_i = (h+f)$ 463	(j) Shut-in Casing Pressure (DWt) 2691	(k) Shut-in Tubing Pressure (DWt) 2731	(l) $P_c =$ higher value of (j) or (k) 2731	(m) Del. Pressure $P_d = 50\% P_c$ 1366	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 544	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume $Q =$ 544 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$.296	$(F_c Q_m)^2 (1000)$ 26.163	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 7744	P_t^2 214369	$P_w^2 = P_t^2 + R^2$ 222113	$P_w = \sqrt{P_w^2}$ 471
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DELIVERABILITY CALCULATION

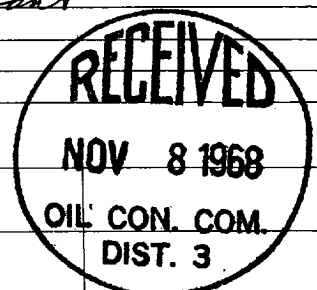
$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 544	$\left[\frac{5592405}{7236248} \right]^n =$ 0.7728	$=$ 0.8242	$=$ 448 MCF/D
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REMARKS: New Well - First Delivered 9-6-68

SUMMARY

Item h **463** Psia
P_c **2731** Psia
Q **544** MCF/D
P_w **471** Psia
P_d **1366** Psia
D **448** MCF/D

Company **EL PASO NATURAL GAS CO**
By **J. B. Grant**
Title
Witnessed By
Company



WELLS, J. E. 1963. *Journal of the Royal Society of Medicine* 56: 101-102.

100-44388-1

YFAN: MUD

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