

Initial Deliverability Test

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

Form C122-A  
 Revised 1-1-68

POOL NAME <b>BASIN</b>	POOL SLOPE <b>n = .75</b>	FORMATION <b>DAKOTA</b>	COUNTY <b>RA</b>
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86-584

COMPANY <b>EL PASO NATURAL GAS CO</b>			WELL NAME AND NUMBER <b>SJ 28-5 UNIT #77</b>		
UNIT LETTER <b>H</b>	SECTION <b>27</b>	TOWNSHIP <b>28</b>	RANGE <b>5</b>	PURCHASING PIPELINE <b>EL PASO NATURAL GAS CO.</b>	
CASING O.D. - INCHES <b>4.500</b>	CASING I.D. - INCHES <b>4.052</b>	SET AT DEPTH - FEET <b>8365</b>	TUBING O.D. - INCHES <b>2.375</b>	TUBING I.D. - INCHES <b>1.995</b>	TOP - TUBING PERF. - FEET <b>8099</b>
GAS PAY ZONE		WELL PRODUCING THRU		GAS GRAVITY	GRAVITY X LENGTH
FROM <b>8124</b>	TO <b>8335</b>	CASING	TUBING <b>X</b>	<b>0.646</b>	<b>5232</b>
DATE OF FLOW TEST			DATE SHUT-IN PRESSURE MEASURED		
FROM <b>11/27/68</b>	TO <b>12/05/68</b>			<b>08/14/68</b>	

**PRESSURE DATA - ALL PRESSURES IN PSIA**

(a) Flowing Casing Pressure (DWt) <b>0</b>	(b) Flowing Tubing Pressure (DWt) <b>0</b>	(c) Flowing Meter Pressure (DWt) <b>0</b>	(d) Flow Chart Static Reading <b>0</b>	(e) Meter Error (Item c - Item d) <b>0</b>	(f) Friction Loss (a-c) or (b-c) <b>0</b>	(g) Average Meter Pressure (Integr.) <b>436</b>
(h) Corrected Meter Pressure (g+e) <b>436</b>	(i) Avg. Wellhead Press. P <sub>w</sub> = (h+f) <b>436</b>	(j) Shut-in Casing Pressure (DWt) <b>2609</b>	(k) Shut-in Tubing Pressure (DWt) <b>2611</b>	(l) P <sub>c</sub> = higher value of (i) or (k) <b>2611</b>	(m) Del. Pressure P <sub>d</sub> = <u>50</u> % P <sub>c</sub> <b>1306</b>	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

**FLOW RATE CORRECTION (METER ERROR)**

Integrated Volume - MCF/D <b>423</b>	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ <b>1.0000</b>	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ <b>1.0000</b>	Corrected Volume Q = <b>423</b> MCF/D
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**WORKING PRESSURE CALCULATION**

$(1-e^{-s})$ <b>.316</b>	$(F_c Q_m)^2 (1000)$ <b>15,817</b>	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ <b>4998</b>	$P_i^2$ <b>190096</b>	$P_w^2 = P_i^2 + R^2$ <b>195094</b>	$P_w = \sqrt{P_w^2}$ <b>442</b>
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**DELIVERABILITY CALCULATION**

$D = Q \left[ \frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$	<b>423</b>	$\left( \frac{5111685}{6622227} \right)^n =$	$(0.7718)^n =$	<b>0.8234</b>	$=$	<b>348</b> MCF/D
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REMARKS: **New Well First Delivered 11-8-68.**

**SUMMARY**

Item h	<b>436</b>	Psia
P <sub>c</sub>	<b>2611</b>	Psia
Q	<b>423</b>	MCF/D
P <sub>w</sub>	<b>442</b>	Psia
P <sub>d</sub>	<b>1306</b>	Psia
D	<b>348</b>	MCF/D

*coll*

Company **EL PASO NATURAL GAS CO**  
 By \_\_\_\_\_  
 Title \_\_\_\_\_  
 Witnessed By \_\_\_\_\_  
 Company \_\_\_\_\_



