

Initial
Deliverability

NEW MEXICO OIL CONSERVATION COMMISSION
WELL DELIVERABILITY TEST REPORT FOR 19 69

Form C122-A
Revised 1-1-68

POOL NAME BASIN	POOL SLOPE $n = .75$	FORMATION DAKOTA	COUNTY RA
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87-051

COMPANY EL PASO NATURAL GAS CO			WELL NAME AND NUMBER SJ 28-5 UNIT #80		
UNIT LETTER G	SECTION 26	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 8621	TUBING O.D. - INCHES 1.660	TUBING I.D. - INCHES 1.380	TOP - TUBING PERF. - FEET 8538
GAS PAY ZONE FROM 8340 TO 8500		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY 0.673	GRAVITY X LENGTH 5789
DATE OF FLOW TEST FROM 09/16/69 TO 09/24/69			DATE SHUT-IN PRESSURE MEASURED 02 08/21/69		

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.) 440
(h) Corrected Meter Pressure (g+e) 440	(i) Avg. Wellhead Press. $P_i = (h+f)$ 440	(j) Shut-in Casing Pressure (DWt) 2588	(k) Shut-in Tubing Pressure (DWt) 2570	(l) P_c higher value of (i) or (k) 2588	(m) Del. Pressure $P_d = \frac{20}{100} P_c$ 1294	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 474	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 474 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$.344	$(F_c Q_m)^2 (1000)$ 130,169	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 46849	P_t^2 193600	$P_w^2 = P_t^2 + R^2$ 240449	$P_w = \sqrt{P_w^2}$ 490
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DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{474}{\left[\frac{5023308}{6457295} \right]^n} = \frac{474}{(0.7779)^n} = \frac{474}{0.8283} = 393 \text{ MCF/D}$$

REMARKS:

New Well 1st Delivery Aug. 18, 1969.

SUMMARY

Item h **440** Psia
 P_c **2588** Psia
 Q **474** MCF/D
 P_w **490** Psia
 P_d **1294** Psia
 D **393** MCF/D

Company **EL PASO NATURAL GAS CO**

By *R.E. Dwyer*

Title

Witnessed By

Company

RECEIVED

NOV 10 1969

**OIL CON. COM.
DIST. 3**

NEW MEXICO OIL CONSERVATION COMMISSION

RECEIVED
OCT 10 1969

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REPORT OF THE COMMISSIONER OF THE NEW MEXICO OIL CONSERVATION COMMISSION

FOR THE YEAR ENDING DECEMBER 31, 1968

THE COMMISSIONER OF THE NEW MEXICO OIL CONSERVATION COMMISSION

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New Well last Delivery Aug. 18, 1969.

SUMMARY

