

NEW MEXICO OIL CONSERVATION COMMISSION
WELL DELIVERABILITY TEST REPORT FOR 1972Form C122-A
Revised 1-1-68

POOL NAME Basin	POOL SLOPE n = .75	FORMATION Dakota	COUNTY Rio Arriba
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87-330

COMPANY El Paso Natural Gas Company		WELL NAME AND NUMBER San Juan 28-7 Unit No. 151			
UNIT LETTER B	SECTION 21	TOWNSHIP 27	RANGE 7	PURCHASING PIPELINE El Paso Natural Gas Co.	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 7589	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 7511
GAS PAY ZONE FROM 7322 TO 7502		WELL PRODUCING TUBING CASING TUBING XX		GAS GRAVITY .696	GRAVITY X LENGTH 5228
DATE OF FLOW TEST FROM 1-3-72 TO 1-11-72			DATE SHUT-IN PRESSURE MEASURED 10-15-71		

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) 0	(f) Friction Loss (a-c) or (b-c) 0	(g) Average Meter Pressure (Integr.) 497
(h) Corrected Meter Pressure (g+e) 497	(i) Avg. Wellhead Press. $P_t = (h+f)$ 497	(j) Shut-in Casing Pressure (DWt) 2387	(k) Shut-in Tubing Pressure (DWt) 1334	(l) P_c = higher value of (i) or (k) 2387	(m) Del. Pressure $P_d = \frac{50}{1194} \% P_c$ 1194	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 347	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume q = 347 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$ 0.316	$(F_c Q_m)^2 (1000)$ 10644	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 3363	P_t^2 247009	$P_w^2 = P_t^2 + R^2$ 250372	$P_w = \sqrt{P_w^2}$ 500
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = 347$	$\left[\frac{4272133}{5447397} \right]^n = 0.7843$	$\left[\frac{0.7843}{0.8334} \right]^n = 0.8334$	$= 289$ MCF/D
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REMARKS:

New Well 1st Del. 12-9-71

SUMMARY

Item h 497 Psia
 P_c 2387 Psia
 Q 347 MCF/D
 P_w 500 Psia
 P_d 1194 Psia
 D 289 MCF/D

Company EL PASO NATURAL GAS COMPANY
 By H. E. McNally
 Title
 Witnessed By
 Company

