

Initial
Deliverability

NEW MEXICO OIL CONSERVATION COMMISSION WELL DELIVERABILITY TEST REPORT FOR 1970

Form C122-A
Revised 1-1-68

POOL NAME Undesignated	POOL SLOPE n = .75	FORMATION Chacra	COUNTY Rio Arriba
---------------------------	-----------------------	---------------------	----------------------

87-142

COMPANY El Paso Natural Gas			WELL NAME AND NUMBER Rincon Unit No. 189 CH		
UNIT LETTER D	SECTION 12	TOWNSHIP 26	RANGE 7	PURCHASING PIPELINE EPNG	
CASING O.D. - INCHES 2.875	CASING I.D. - INCHES 2.441	SET AT DEPTH - FEET 3761	TUBING O.D. - INCHES no tubing	TUBING I.D. - INCHES	TOP - TUBING PERF. - FEET
GAS PAY ZONE FROM 3594 TO 3686		WELL PRODUCING THRU CASING XX TUBING		GAS GRAVITY .728	GRAVITY X LENGTH 2616
DATE OF FLOW TEST FROM 5-5-70 TO 5-11-70			DATE SHUT-IN PRESSURE MEASURED 3-4-70		

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.) 226
(h) Corrected Meter Pressure (g+e) 226	(i) Avg. Wellhead Press. $P_f = (h+f)$ 226	(j) Shut-in Casing Pressure (DWt) 1015	(k) Shut-in Tubing Pressure (DWt) -	(l) $P_c =$ higher value of (j) or (k) 1015	(m) Del. Pressure $P_d = \frac{80}{812} P_c$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 207	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 207 MCF/D
----------------------------------	---	--	-----------------------------------

WORKING PRESSURE CALCULATION

$(1-e^{-s})$.173	$(F_c Q_m)^2 (1000)$ 1320	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 228	P_i^2 51076	$P_w^2 = P_i^2 + R^2$ 51304	$P_w = \sqrt{P_w^2}$ 227
----------------------	------------------------------	--	------------------	--------------------------------	-----------------------------

DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$	207	$\left[\frac{370881}{978921} \right]^n =$	$\left[.3788 \right]^n =$	.4828	$=$	100 MCF/D
--	-----	--	----------------------------	-------	-----	-----------

REMARKS: New well, 1st del. April 6, 1970.

SUMMARY

Item h 226 Psia
P_c 1015 Psia
Q 207 MCF/D
P_w 227 Psia
P_d 812 Psia
D 100 MCF/D

Company EL PASO NATURAL GAS COMPANY

By R E Stauffer

Title

Witnessed By

Company



