

NEW MEXICO OIL CONSERVATION COMMISSION
WELL DELIVERABILITY TEST REPORT FOR 19 70

Form C122-A
Revised 1-1-68

POOL NAME Basin	POOL SLOPE n = .75	FORMATION DK	COUNTY RA
---------------------------	------------------------------	------------------------	---------------------

87-158

COMPANY El Paso Natural Gas Co.			WELL NAME AND NUMBER Rosa Unit No. 53		
UNIT LETTER B	SECTION 8	TOWNSHIP 31	RANGE 5	PURCHASING PIPELINE EPNG	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 8141	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 7794
GAS PAY ZONE FROM 7900 TO 8090		WELL PRODUCING THRU CASING TUBING XX		GAS GRAVITY .595	GRAVITY X LENGTH 4637
DATE OF FLOW TEST FROM 8-3-70 TO 8-11-70			DATE SHUT-IN PRESSURE MEASURED 3-25-70		

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.) 451
(h) Corrected Meter Pressure (g+e) 451	(i) Avg. Wellhead Press. $P_i = (h+f)$ 451	(j) Shut-in Casing Pressure (DWt) 1039	(k) Shut-in Tubing Pressure (DWt) 2812	(l) $P_c =$ higher value of (i) or (k) 2812	(m) Del. Pressure $P_d =$ 50 % P_c 1406	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 421	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 421 MCF/D
---	--	---	--

WORKING PRESSURE CALCULATION

$(1-e^{-s})$.286	$(F_c Q_m)^2 (1000)$ 15668	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 4481	P_i^2 203401	$P_w^2 = P_i^2 + R^2$ 207882	$P_w = \sqrt{P_i^2}$ 456
-----------------------------	--------------------------------------	--	--------------------------	--	------------------------------------

DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$	421	$\left[\frac{5930508}{7699462} \right]^n =$	$(.7702)^n =$	.8222	$=$	346 MCF/D
--	------------	--	---------------	--------------	-----	------------------

REMARKS:

New well, 1st del. 7-15-70.

SUMMARY

Item h	451	Psia
P_c	2812	Psia
Q	421	MCF/D
P_w	456	Psia
P_d	1406	Psia
D	346	MCF/D

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

