

NEW MEXICO OIL CONSERVATION COMMISSION
WELL DELIVERABILITY TEST REPORT FOR 1970

Form C122-A
 Revised 1-1-68

POOL NAME Basin	POOL SLOPE n = .75	FORMATION DK	COUNTY RA
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COMPANY El Paso Natural Gas Co.			WELL NAME AND NUMBER 87-155 Rosa Unit No. 52		
UNIT LETTER D	SECTION 33	TOWNSHIP 31	RANGE 5	PURCHASING PIPELINE EPNG	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.000	SET AT DEPTH - FEET 8160	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 7897
GAS PAY ZONE FROM 7992 TO 8150		WELL PRODUCING THRU CASING TUBING xx		GAS GRAVITY .593	GRAVITY X LENGTH 4683
DATE OF FLOW TEST FROM 8-3-70 TO 8-11-70			DATE SHUT-IN PRESSURE MEASURED 2-27-70		

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)	(f) Friction Loss (a-c) or (b-c)	(g) Average Meter Pressure (Integr.)
-	-	-	-	0	0	451
(h) Corrected Meter Pressure (g+e)	(i) Avg. Wellhead Press. $P_i = (h+f)$	(j) Shut-in Casing Pressure (DWt)	(k) Shut-in Tubing Pressure (DWt)	(l) $P_c =$ higher value of (j) or (k)	(m) Del. Pressure $P_d = \frac{50}{100} P_c$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only
451	451	1695	2717	2717	1359	

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D	Quotient of $\frac{\text{Item c}}{\text{Item d}}$	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$	Corrected Volume
548	1.0000	1.0000	Q = 548 MCF/D

WORKING PRESSURE CALCULATION

$(1-e^{-s})$	$(F_c Q_m)^2 (1000)$	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$	P_i^2	$P_w^2 = P_i^2 + R^2$	$P_w = \sqrt{P_w^2}$
.289	26546	7672	203401	211073	459

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{548}{\left[\frac{553208}{7171016} \right]^n} = \left(\frac{.7718}{.8234} \right)^n = 451 \text{ MCF/D}$$

REMARKS:

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

SUMMARY

Item h 451 Psia
 P_c 2717 Psia
 Q 548 MCF/D
 P_w 459 Psia
 P_d 1359 Psia
 D 451 MCF/D

Company EL PASO NATURAL GAS COMPANY
 By A. E. McDermally
 Title _____
 Witnessed By _____
 Company _____



