

Initial
Deliverability Test

NEW MEXICO OIL CONSERVATION COMMISSION **WELL DELIVERABILITY TEST REPORT FOR 19 68**

Form C122-A
Revised 1-1-68

POOL NAME Undesignated	POOL SLOPE n = .75	FORMATION Chacra	COUNTY Rio Arriba
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COMPANY El Paso Natural Gas			WELL NAME AND NUMBER Carter Mesa Com. No. 1		
UNIT LETTER E	SECTION 36	TOWNSHIP 26	RANGE 6	PURCHASING PIPELINE El Paso Natural Gas	
CASING O.D. - INCHES 2.875	CASING I.D. - INCHES 2.441	SET AT DEPTH - FEET 3823	TUBING O.D. - INCHES 1.660	TUBING I.D. - INCHES 1.380	TOP - TUBING PERF. - FEET 3710
GAS PAY ZONE FROM 3664 TO 3772		WELL PRODUCING THRU CASING TUBING XX		GAS GRAVITY .728	GRAVITY X LENGTH 2701
DATE OF FLOW TEST FROM 12-21-68 TO 12-29-68			DATE SHUT-IN PRESSURE MEASURED 1-14-69		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 218	(b) Flowing Tubing Pressure (DWt) 218	(c) Flowing Meter Pressure (DWt) 721	(d) Flow Chart Static Reading 719	(e) Meter Error (Item c - Item d) 0	(f) Friction Loss (a-c) or (b-c) 0	(g) Average Meter Pressure (Integr.) 218
(h) Corrected Meter Pressure (g+e) 218	(i) Avg. Wellhead Press. $P_i = (h+f)$ 218	(j) Shut-in Casing Pressure (DWt) 721	(k) Shut-in Tubing Pressure (DWt) 719	(l) P_e = higher value of (j) or (k) 721	(m) Del. Pressure $P_d = 80 \% P_e$ 577	(n) Separator or Dehydrator Pr. (DWt) for critical flow only ---

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 319	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 319 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$.178	$(F_c Q_m)^2 (1000)$ 61685	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 10980	P_i^2 47524	$P_w^2 = P_i^2 + R^2$ 58504	$P_w = \sqrt{P_w^2}$ 242
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DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{319}{\left[\frac{186,912}{461,337} \right]^n} = \left[\frac{0.4051}{1} \right]^n = .5075 = 162 \text{ MCF/D}$$

REMARKS:

New Well First Delivered 11-22-68

SUMMARY

Item h **218** Psia
 P_c **721** Psia
 Q **319** MCF/D
 P_w **242** Psia
 P_d **577** Psia
 D **162** MCF/D

Company **EL PASO NATURAL GAS COMPANY 3**
 By **H. L. Kendrick**
 Title **Regional Well Test Engineer**
 Witnessed By _____
 Company _____



