

NEW MEXICO OIL CONSERVATION COMMISSION
INITIAL WELL DELIVERABILITY TEST REPORT FOR 19 67

Form CI22-A
Revised 1-1-66

POOL NAME Basin	POOL SLOPE n = .75	FORMATION Dakota	COUNTY San Juan
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COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER Huerfanito 98 (DK)		
UNIT LETTER G	SECTION 35	TOWNSHIP 27	RANGE 9	PURCHASING PIPELINE El Paso Natural Gas Company	
CASING O.D. - INCHES 5.500	CASING I.D. - INCHES 4.950	SET AT DEPTH - FEET 6885	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 6648
GAS PAY ZONE FROM 6576 TO 6830		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY .655	GRAVITY X LENGTH 4354
DATE OF FLOW TEST FROM 4-25-67 TO 5-3-67			DATE SHUT-IN PRESSURE MEASURED 2-24-67		

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.) 476
(h) Corrected Meter Pressure (g + e) 476	(i) Avg. Wellhead Press. $P_i = (h + f)$ 476	(j) Shut-in Casing Pressure (DWt) -	(k) Shut-in Tubing Pressure (DWt) 1972	(l) $P_c =$ higher value of (j) or (k) 1972	(m) Del. Pressure $P_d = 50\% P_c$ 986	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 374	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 374 MCF/D
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WORKING PRESSURE CALCULATION

$(1 - e^{-s})$.271	$(F_c Q_m)^2 (1000)$ 12.362	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$ 3350	P_i^2 226576	$P_w^2 = P_i^2 + R^2$ 229926	$P_w = \sqrt{P_w^2}$ 480
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = 374$	$\left[\frac{2916588}{3658858} \right]^n = \frac{7971}{3658858} = .8435$	$= 315$ MCF/D
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REMARKS:

New Well First Delivered 3-21-67

SUMMARY

Item h	476	Psia
P_c	1972	Psia
Q	374	MCF/D
P_w	480	Psia
P_d	986	Psia
D	315	MCF/D

Company El Paso Natural Gas Company
By H. L. Kendrick
Title Regional Well Test Engineer
Witnessed By [Signature]
Company [Signature]



