

Initial
Deliverability

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

Form C122-A
Revised 1-1-68

POOL NAME Basin	POOL SLOPE n = .75	FORMATION Dakota	COUNTY San Juan
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75-825

COMPANY El Paso Natural Gas Co.			WELL NAME AND NUMBER Huerfano Unit No. 179		
UNIT LETTER F	SECTION 14	TOWNSHIP 26	RANGE 10	PURCHASING PIPELINE El Paso Natural Gas Co.	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 6964	TUBING O.D. - INCHES 2375	TUBING I.D. - INCHES 1995	TOP - TUBING PERF. - FEET 6649
GAS PAY ZONE FROM 6678 TO 6836		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY .705	GRAVITY X LENGTH 4688
DATE OF FLOW TEST FROM 9/15/68 TO 9/23/68			DATE SHUT-IN PRESSURE MEASURED 6-5-68		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 449	(b) Flowing Tubing Pressure (DWt) 449	(c) Flowing Meter Pressure (DWt) 1941	(d) Flow Chart Static Reading 1969	(e) Meter Error (Item c - Item d) 1969	(f) Friction Loss (a-c) or (b-c) 985	(g) Average Meter Pressure (Integr.) 449
(h) Corrected Meter Pressure (g+e) 449	(i) Avg. Wellhead Press. $P_i = (h+f)$ 449	(j) Shut-in Casing Pressure (DWt) 1941	(k) Shut-in Tubing Pressure (DWt) 1969	(l) P_c = higher value of (i) or (k) 1969	(m) Del. Pressure $P_d = \frac{50}{985} P_c$ 985	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 707	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume $Q = \frac{707}{1.0000}$ 707 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$.289	$(F_c Q_m)^2 (1000)$ 44185	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 12769	P_i^2 201601	$P_w^2 = P_i^2 + R^2$ 214370	$P_w = \sqrt{P_w^2}$ 463
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 707	$\left[\frac{2906736}{3662591} \right]^n =$.7936	$\left[\frac{.7936}{.8406} \right]^n =$.8406	$=$ 594 MCF/D
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REMARKS:

New Well First Delivered 8-13-68

SUMMARY

Item h **449** Psia
 P_c **1969** Psia
 Q **707** MCF/D
 P_w **463** Psia
 P_d **985** Psia
 D **594** MCF/D

Company **El Paso Natural Gas Co.**
 By **H. L. Hendrick**
 Title **By CDR**
 Witnessed By _____
 Company _____

