

NEW MEXICO OIL CONSERVATION COMMISSION
WELL DELIVERABILITY TEST REPORT FOR 19 69

Form C122-A
 Revised 1-1-68

POOL NAME Basin	POOL SLOPE n = .75	FORMATION Dakota	COUNTY San Juan
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75-906

COMPANY El Paso Natural Gas			WELL NAME AND NUMBER Huerfano Unit No. 181		
UNIT LETTER C	SECTION 26	TOWNSHIP 26	RANGE 9	PURCHASING PIPELINE El Paso Natural Gas	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.012	SET AT DEPTH - FEET 6745	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 6421
GAS PAY ZONE FROM 6427 TO 6659		WELL PRODUCING THRU CASING TUBING XX		GAS GRAVITY .704	GRAVITY X LENGTH 4520
DATE OF FLOW TEST FROM 12-19-68 TO 12-27-68			DATE SHUT-IN PRESSURE MEASURED 8-28-68		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 436	(b) Flowing Tubing Pressure (DWt) 436	(c) Flowing Meter Pressure (DWt) 1976	(d) Flow Chart Static Reading 1971	(e) Meter Error (Item c - Item d) 1976	(f) Friction Loss (a-c) or (b-c) 988	(g) Average Meter Pressure (Integr.) 436
(h) Corrected Meter Pressure (g+e) 436	(i) Avg. Wellhead Press. $P_t = (h+f)$ 436	(j) Shut-in Casing Pressure (DWt) 1976	(k) Shut-in Tubing Pressure (DWt) 1971	(l) P_c = higher value of (j) or (k) 1976	(m) Del. Pressure $P_d = 50\% P_c$ 988	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 452	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 452 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$.280	$(F_c Q_m)^2 (1000)$ 18063	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 5058	P_t^2 190096	$P_w^2 = P_t^2 + R^2$ 195154	$P_w = \sqrt{P_w^2}$ 442
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 452	$\left[\frac{2928432}{3709422} \right]^n =$.8373	$\left[\frac{7894}{7894} \right]^n =$ 378 MCF/D
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REMARKS:

New well first delivered 11-21-68

SUMMARY

Item h **436** Psia
 P_c **1976** Psia
 Q **452** MCF/D
 P_w **442** Psia
 P_d **988** Psia
 D **378** MCF/D

Company **EL PASO NATURAL GAS**
 By **[Signature]** **OIL CON. COM.**
 Title **Regional Well Test Engineer**
 Witnessed By _____
 Company _____

RECEIVED
JAN 9 1969

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