

Deliverability

NEW MEXICO OIL CONSERVATION COMMISSION
WELL DELIVERABILITY TEST REPORT FOR 1970

Form C122-A
Revised 1-1-68

POOL NAME Basin	POOL SLOPE 0.75	FORMATION DK	COUNTY SJ
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87-141

COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER Huerfano Unit No. 207		
UNIT LETTER P	SECTION 20	TOWNSHIP 26	RANGE 10	PURCHASING PIPELINE EPNG	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 6636	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 6517
GAS PAY ZONE FROM 6434 TO 6546		WELL PRODUCING THRU CASING TUBING XX		GAS GRAVITY .678	GRAVITY X LENGTH 4419
DATE OF FLOW TEST FROM 4-21-70 TO 4-29-70			DATE SHUT-IN PRESSURE MEASURED 2-16-70		

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) 0	(f) Friction Loss (a-c) or (b-c) 0	(g) Average Meter Pressure (Integr.) 396
(h) Corrected Meter Pressure (g+e) 396	(i) Avg. Wellhead Press. $P_t = (h+f)$ 396	(j) Shut-in Casing Pressure (DWt) 1711	(k) Shut-in Tubing Pressure (DWt) 1656	(l) P_c = higher value of (j) or (k) 1711	(m) Del. Pressure $P_d = 50\% P_c$ 856	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 1486	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume $Q =$ 1486 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$.275	$(F_c Q_m)^2 (1000)$ 195199	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 53680	P_t^2 156816	$P_w^2 = P_t^2 + R^2$ 210496	$P_w = \sqrt{P_w^2}$ 459
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 1486	$\left(\frac{2194785}{2717025} \right)^n =$.8077	$=$.8520	$=$ 1266 MCF/D
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REMARKS:

New Well 1st del. 3-25-70.

SUMMARY

Item h **396** Psia
P **1711** Psia
Q **1486** MCF/D
P_w **459** Psia
P_d **856** Psia
D **1266** MCF/D

Company **El Paso Natural Gas Co.**

By

Title

Witnessed By

Company



