

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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75-970

COMPANY El Paso Natural Gas			WELL NAME AND NUMBER Huerfano Unit No. 192		
UNIT LETTER P	SECTION 22	TOWNSHIP 26	RANGE 9	PURCHASING PIPELINE El Paso Natural Gas	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 6683	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 6582
GAS PAY ZONE FROM 6390 TO 6606		WELL PRODUCING THRU CASING TUBING XX		GAS GRAVITY .714	GRAVITY X LENGTH 4700
DATE OF FLOW TEST FROM 5-12-69 TO 5-20-69			DATE SHUT-IN PRESSURE MEASURED 3-20-69		

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.)
				0	0	429
(h) Corrected Meter Pressure (g+e)	(i) Avg. Wellhead Press. $P_t = (h+f)$	(j) Shut-in Casing Pressure (DWt)	(k) Shut-in Tubing Pressure (DWt)	(l) P_c = higher value of (j) or (k)	(m) Del. Pressure $P_d = \frac{50}{1024} \% P_c$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only
429	429	2033	2048	2048		

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D	Quotient of $\frac{\text{Item c}}{\text{Item d}}$	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$	Corrected Volume
531	1.0000	1.0000	$Q = 531$ MCF/D

WORKING PRESSURE CALCULATION

$(1-e^{-s})$	$(F_c Q_m)^2 (1000)$	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$	P_i^2	$P_w^2 = P_i^2 + R^2$	$P_w = \sqrt{P_w^2}$
.289	24924	7203	184041	191244	437

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{531}{\left[\frac{3145728}{4003060} \right]^n} = \frac{531}{(.7858)^n} = \frac{531}{.8345} = 443 \text{ MCF/D}$$

REMARKS:

New well first delivered 4-8-68

SUMMARY

Item h	429	Psia
P_c	2048	Psia
Q	531	MCF/D
P_w	437	Psia
P_d	1024	Psia
D	443	MCF/D

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

