

NEW MEXICO OIL CONSERVATION COMMISSION

WELL DELIVERABILITY TEST REPORT FOR 19 70

Form C122-A
Revised 1-1-68

POOL NAME Basin	POOL SLOPE $n = .75$	FORMATION DK	COUNTY SJ
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87-163

COMPANY El Paso Natural Gas Co.			WELL NAME AND NUMBER Huerfano Unit No. 204		
UNIT LETTER J	SECTION 27	TOWNSHIP 26	RANGE 9	PURCHASING PIPELINE EPNG	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 6740	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 6589
GAS PAY ZONE FROM 6398 TO 6596		WELL PRODUCING THRU CASING TUBING XX		GAS GRAVITY .713	GRAVITY X LENGTH 4698
DATE OF FLOW TEST FROM 8-11-70 TO 8-19-70			DATE SHUT-IN PRESSURE MEASURED 6-18-70		

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)	(f) Friction Loss (a-c) or (b-c)	(g) Average Meter Pressure (Integr.)
-	-	-	-	0	0	370
(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 (i) or (k)	(m) Del. Pressure $P_d = 50\% P_c$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only
370	370	2097	1538	2097	1049	

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
244	1.0000	1.0000	$Q = 244$ MCF/D

WORKING PRESSURE CALCULATION

$(1-e^{-s})$.289	$(F_c Q_m)^2 (1000)$ 5263	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 1521	P_t^2 136900	$P_w^2 = P_t^2 + R^2$ 138421	$P_w = \sqrt{P_w^2}$ 372
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n$	244	$\left[\frac{3297008}{4258988} \right]^n$	$(.7741)^n$	$.8253$	$= 201$ MCF/D
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REMARKS:

New well, 1st del July 13, 1970

SUMMARY

Item h 370 Psia
 P_c 2097 Psia
 Q 244 MCF/D
 P_w 372 Psia
 P_d 1049 Psia
 D 201 MCF/D

Company EL PASO NATURAL GAS COMPANY

By [Signature]

Title _____

Witnessed By _____

Company _____

