

Im-
deliverability

NEW MEXICO OIL CONSERVATION COMMISSION

WELL DELIVERABILITY TEST REPORT FOR 19 70

Form C122-A
Revised 1-1-68

POOL NAME West Kutz	POOL SLOPE n = .85	FORMATION PC	COUNTY SJ
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COMPANY El Paso Natural Gas Co.			WELL NAME AND NUMBER Huerfano Unit No. 63		
UNIT LETTER F	SECTION 4	TOWNSHIP 26	RANGE 10	PURCHASING PIPELINE EPNG	
CASING O.D. - INCHES 5.500	CASING I.D. - INCHES 5.012	SET AT DEPTH - FEET 2375	TUBING O.D. - INCHES 1.660	TUBING I.D. - INCHES 1.380	TOP - TUBING PERF. - FEET 2306
GAS PAY ZONE FROM 2304 TO 2335		WELL PRODUCING THRU CASING TUBING XX		GAS GRAVITY .596	GRAVITY X LENGTH 1374
DATE OF FLOW TEST FROM 3-5-70 TO 3-13-70			DATE SHUT-IN PRESSURE MEASURED 4-16-69		

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	113
(h) Corrected Meter Pressure (g+e)	(i) Avg. Wellhead Press. $P_i = (h+f)$	(j) Shut-in Casing Pressure (DWt)	(k) Shut-in Tubing Pressure (DWt)	(l) P_c = higher value of (i) or (k)	(m) Del. Pressure $P_d = \frac{80}{\%P_c}$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only
113	113	265	265	265	212	

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
254	1.0000	1.0000	Q = 254 MCF/D

WORKING PRESSURE CALCULATION

$(1-e^{-s})$.095	$(F_c Q_m)^2 (1000)$ 39106	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 3715	P_i^2 12769	$P_w^2 = P_i^2 + R^2$ 16484	$P_w = \sqrt{P_w^2}$ 128
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = 254$	$\left[\frac{25281}{53741} \right]^n = .4704$	$.5268$	134 MCF/D
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REMARKS: Installed gas lift valves 2-19-70

SUMMARY

Item h	113	Psia
P_c	265	Psia
Q	254	MCF/D
P_w	128	Psia
P_d	212	Psia
D	134	MCF/D

Company El Paso Natural Gas Co.

By

Title

Witnessed By

Company



