

WELL DELIVERABILITY TEST REPORT FOR 19 70

Form C122-A
Revised 1-1-68

POOL NAME Blanco	POOL SLOPE n = .75	FORMATION MV	COUNTY SJ
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70-996

COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER Lucerne "A" No. 3		
UNIT LETTER M	SECTION 3	TOWNSHIP 31	RANGE 10	PURCHASING PIPELINE EPNG	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 5656	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 5565
GAS PAY ZONE FROM 4794 TO 5610		WELL PRODUCING THRU CASING TUBING XX		GAS GRAVITY .678	GRAVITY X LENGTH 3775
DATE OF FLOW TEST FROM 5-9-70 TO 5-17-70			DATE SHUT-IN PRESSURE MEASURED 4-13-70		

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	416
(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 $P_d = 80\% P_c$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only
416	416	772	441	772	618	

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
993	1.0000	1.0000	Q = 993 MCF/D

WORKING PRESSURE CALCULATION

$(1-e^{-s})$.240	$(F_c Q_m)^2 (1000)$ 87164	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 20919	P_t^2 173056	$P_w^2 = P_t^2 + R^2$ 193975	$P_w = \sqrt{P_w^2}$ 440
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DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = 993 \left[\frac{214060}{402009} \right]^n = (.5324)^n = .6233 = 619 \text{ MCF/D}$$

REMARKS:

OWWO, 1st del. April 20, 1970.

SUMMARY

Item h	416	Psia
P_c	772	Psia
Q	993	MCF/D
P_w	440	Psia
P_d	618	Psia
D	619	MCF/D

Company EL PASO NATURAL GAS COMPANY
By *RE Stuyffer*
Title
Witnessed By
Company



