Initi-
Deliverability

NEW MEXICO OIL CONSERVATION COMMISSION

WELL DELIVERABILITY TEST REPORT FOR 19 70

Form C122-A
Revised 1-1-68

POOL NAME	POOL SLOPE	FORMATION	COUNTY
So. Blanco	n = .85	PC	SJ

70-625

COMPANY			WELL NAME AND NUMBER		
El Paso Natural Gas			Filan No. 1		
UNIT LETTER	SECTION	TOWNSHIP	RANGE	PURCHASING PIPELINE	
H	5	27	8	EPNG	
CASING O.D. - INCHES	CASING I.D. - INCHES	SET AT DEPTH - FEET	TUBING O.D. - INCHES	TUBING I.D. - INCHES	TOP - TUBING PERF. - FEET
2.875	2.441	2246	No tubing		
GAS PAY ZONE		WELL PRODUCING THRU		GAS GRAVITY	GRAVITY X LENGT-
FROM 2157	TO 2196	CASING xx	TUBING	.640	1.380
DATE OF FLOW TEST			DATE SHUT-IN PRESSURE MEASURED		
FROM 2-19-70	TO 2-27-70		12-4-69		

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	165
(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 = 80 %P_c**	**(n) Separator or Dehydrator Pr. (DWt) for critical flow only**
165	165	633	-	633	506	

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
335	1.0000	1.0000	Q = 335 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_t^2	$P_w^2 = P_t^2 + R^2$	$P_w = \sqrt{P_w^2}$
.095	3458	329	27225	27554	166

DELIVERABILITY CALCULATION

$$D = Q\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2}\right]^n = 335 \left[\left(\frac{144653}{373135}\right)^n = (.3876)^n = .4468\right] = 150 \text{ MCF/D}$$

REMARKS:

OWWO, 1st del. 1-19-70

SUMMARY

Item h	165	Psia
P_c	633	Psia
Q	335	MCF/D
P_w	166	Psia
P_d	506	Psia
D	150	MCF/D

Company El Paso Natural Gas Co.
By W. E. [illegible]
Title
Witnessed By
Company

RECEIVED
DIST. 3