Well 2

NEW MEXICO OIL CONSERVATION COMMISSION

INITIAL WELL DELIVERABILITY TEST REPORT FOR 19 66

Form C122-A
Revised 1-1-66

POOL NAME	POOL SLOPE	FORMATION	COUNTY
South Blanco	n= .85	Pictured Cliffs	Rio Arriba

70-079

COMPANY			WELL NAME AND NUMBER		
El Paso Natural Gas Company			Harrington No. 1		
UNIT LETTER	SECTION	TOWNSHIP	RANGE	PURCHASING PIPELINE	
M	31	27	7	El Paso Natural Gas Company	
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	2225	No Tubing	-	-
GAS PAY ZONE		WELL PRODUCING THRU		GAS GRAVITY	GRAVITY X LENGTH
FROM 2114 TO 2158		CASING X	TUBING	.653	1380
DATE OF FLOW TEST			DATE SHUT- N PRESSURE MEASURED		
FROM 7-06-66 TO 7-14-66			3-15-66		

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.)
						231
(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**
231	231	364	000	364	291	

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
377	1.0000	1.0000	Q = 377 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	4381	416	53361	53777	232

DELIVERABILITY CALCULATION

$$D = Q\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2}\right]^n = 377 \left[\left(\frac{47815}{78719}\right)^n \left(\quad\right)^n = .6074 = .6546\right] = 247 \text{ MCF/D}$$

REMARKS:

SUMMARY

Item h	231	Psia
P_c	364	Psia
Q	377	MCF/D
P_w	232	Psia
P_d	291	Psia
D	247	MCF/D

Company EL PASO NATURAL GAS COMPANY
By R. L. Kendrick by JBG
Title Regional Well Test Engineer
Witnessed By
Company

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