NEW MEXICO OIL CONSERVATION COMMISSION

INITIAL WELL DELIVERABILITY TEST REPORT FOR 19 67

Form C122-A
Revised 1-1-66

POOL NAME	POOL SLOPE	FORMATION	COUNTY
Blanco	n= .75	Mesa Verde	Rio Arriba

72428

COMPANY			WELL NAME AND NUMBER		
El Paso Natural Gas Company			SJ 29-7 Unit No. 71		
UNIT LETTER	SECTION	TOWNSHIP	RANGE	PURCHASING PIPELINE	
A	24	29	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
5.500	5.012	5420	1.660	1.380	5338
GAS PAY ZONE		WELL PRODUCING THRU		GAS GRAVITY	GRAVITY X LENGTH
FROM 4860 TO 5420		CASING	TUBING X	.674	3598
DATE OF FLOW TEST			DATE SHUT-IN PRESSURE MEASURED		
FROM 2-1-67 TO 2-9-67			4-26-66		

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.)
						497
(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**	**(n) Separator or Dehydrator Pr. (DWt) for critical flow only**
497	497	726	714	726	P_d = 80 %P_c = 581	

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
442	1.0000	1.0000	Q = 442 MCF/D

WORKING PRESSURE CALCULATION

24.62

$(1-e^{-s})$	$(F_c Q_m)^2 (1000)$	$R^2 = (1-e^{-s})(F_c Q_m)^2(1000)$	P_t^2	$P_w^2 = P_t^2 + R^2$	$P_w = \sqrt{P_w^2}$
.230	118418	27236	247009	274245	524

DELIVERABILITY CALCULATION

$$D = Q\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2}\right]^n = 442\left[\left(\frac{189515}{252831}\right)^n = (.7495)^n = .8055\right] = 356 \text{ MCF/D}$$

REMARKS:

Installed intermitter 12-21-66.

SUMMARY

Item h	497	Psia
P_c	726	Psia
Q	442	MCF/D
P_w	524	Psia
P_d	581	Psia
D	356	MCF/D

Company El Paso Natural Gas Company

By H. L. Kendrick

Title Regional Well Test Engineer

Witnessed By

Company

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FEB 1 1967
OIL CON. COM.
DIST. 3