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
Basin	n= .75	Dakota	Rio Arriba

75632

COMPANY			WELL NAME AND NUMBER		
El Paso Natural Gas Company			Navajo Unit No. 162		
UNIT LETTER	SECTION	TOWNSHIP	RANGE	PURCHASING PIPELINE	
D	19	26	9	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
4.500	4.052	6790	2.375	1.995	6569
GAS PAY ZONE		WELL PRODUCING THRU		GAS GRAVITY	GRAVITY X LENGTH
FROM 6580 TO 6695		CASING	TUBING	.678	4454
DATE OF FLOW TEST			DATE SHUT-IN PRESSURE MEASURED		
FROM 7-11-67 TO 7-19-67			6-7-67		

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.)
						443
(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 = 50 %P_c**	**(n) Separator or Dehydrator Pr. (DWt) for critical flow only**
443	443	1892	1894	1894	947	

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
642	1.0000	1.0000	Q = 642 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	$P_w^2 = P_t^2 + R^2$	$P_w = \sqrt{P_w^2}$
.277	36433	10092	196249	206341	454

DELIVERABILITY CALCULATION

$$D = Q\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2}\right]^n = 642 \left[\left(\frac{2690427}{3380895}\right)^n = (.7957)^n = .8424\right] = 541 \text{ MCF/D}$$

REMARKS:

New Well First Delivered 6-26-67.

OK

SUMMARY

Item b	443	Psia
P_c	1894	Psia
Q	642	MCF/D
P_w	454	Psia
P_d	947	Psia
D	541	MCF/D

Company El Paso Natural Gas Company

By H. Kendrick

Title Regional Well Test Engineer

Witnessed By

Company

RECEIVED
SEP 1 1967
OIL CON. COM.
DIST. 3