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
Blanco	n= .75	Mesa Verde	San Juan

75457

COMPANY			WELL NAME AND NUMBER		
EL PASO NATURAL GAS COMPANY			Mansfield No. 9		
UNIT LETTER	SECTION	TOWNSHIP	RANGE	PURCHASING PIPELINE	
A	29	30	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	5016	2.375	1.995	4941
GAS PAY ZONE		WELL PRODUCING THRU		GAS GRAVITY	GRAVITY X LENGTH
FROM 4846	TO 4970	CASING	TUBING X	.675	3335
DATE OF FLOW TEST			DATE SHUT-IN PRESSURE MEASURED		
FROM 12-11-66	TO 12-19-66		9-1-66		

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.)
						519
(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**
519	519	875	868	875	P_d = 80 / 700 %P_c	

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
1233	1.0000	1.0000	Q = 1233 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	$P_w^2 = P_t^2 + R^2$	$P_w = \sqrt{P_w^2}$
.215	134398 40	28896 94	269361	298257 5	546

DELIVERABILITY CALCULATION

$$D = Q\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2}\right]^n = 1233\left[\left(\frac{275625}{467350}\right)^n = .5897^n = .6727\right] = 829 \text{ MCF/D}$$

REMARKS:

New Well First Delivered 11-18-66.

OK

SUMMARY

Item h	519	Psia
P_c	875	Psia
Q	1233	MCF/D
P_w	546	Psia
P_d	700	Psia
D	829 830	MCF/D

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

RECEIVED
JAN 3 967
OIL CON. COM.
DIST. 3