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

70171

COMPANY			WELL NAME AND NUMBER		
El Paso Natural Gas Company			Mudge No. 2		
UNIT LETTER	SECTION	TOWNSHIP	RANGE	PURCHASING PIPELINE	
A	10	31	11	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	5256	2.375	1.995	4297
GAS PAY ZONE		WELL PRODUCING THRU		GAS GRAVITY	GRAVITY X LENGTH
FROM 4297 TO 5004		CASING	TUBING X	.685	2943
DATE OF FLOW TEST			DATE SHUT-IN PRESSURE MEASURED		
FROM 7-13-66 TO 7-21-66			6-01-66		

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.)
-	-	-	-	-	-	563
(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**
563	563	891	733	891	713	-

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
1575	1.0000	1.0000	Q = 1575 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	$P_w^2 = P_t^2 + R^2$	$P_w = \sqrt{P_w^2}$
.193	9.402 (1575) 219277	42320	316969	359289	599

DELIVERABILITY CALCULATION

$$D = Q\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2}\right]^n = 1575 \left[\left(\frac{285512}{434592}\right)^n = .6569^{\,n} = .7300\right] = 1150 \text{ MCF/D}$$

REMARKS:

First Delivery after OWWO: 6-16-66.

SUMMARY

Item h	563	Psia
P_c	891	Psia
Q	1575	MCF/D
P_w	599	Psia
P_d	713	Psia
D	1150	MCF/D

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

RECEIVED
AUG 15 1966
OIL CON. COM.
DIST. 3