NEW MEXICO OIL CONSERVATION COMMISSION

INITIAL WELL DELIVERABILITY TEST REPORT FOR 19 67

Form C122-A
Revised 1-1-65

POOL NAME	POOL SLOPE	FORMATION	COUNTY
Aztec	n= .85	Pictured Cliffs	San Juan

75676

COMPANY			WELL NAME AND NUMBER		
El Paso Natural Gas Company			Lackey A No. 4		
UNIT LETTER	SECTION	TOWNSHIP	RANGE	PURCHASING PIPELINE	
K	11	29	10	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	2349	NO TUBING		
GAS PAY ZONE		WELL PRODUCING THRU		GAS GRAVITY	GRAVITY X LENGTH
FROM 2210 TO 2282		CASING X TUBING		.658	1474
DATE OF FLOW TEST			DATE SHUT-IN PRESSURE MEASURED		
FROM 10-30-67 TO 11-7-67			8-10-67		

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.)
						221
(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**
221	221	658		658	P_d = 80 %P_c = 526	

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
523	1.0000	1.0000	Q = 523 MCF/D

WORKING PRESSURE CALCULATION

$(1-e^{-s})$	$(F_c Q_m)^2 (1000)$	$R^2 = \frac{(F_c Q_m)^2(1000)}{(1-e^{-s})}$	P_t^2	$P_w^2 = P_t^2 + R^2$	$P_w = \sqrt{P_w^2}$
.101	8427	851	48841	49692	223

DELIVERABILITY CALCULATION

$$D = Q\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2}\right]^n = 523\left[\left(\frac{156288}{383272}\right)^n = (.4077)^n = .4663\right] = 244 \text{ MCF/D}$$

REMARKS:

New Well. First Delivered 10-11-67.

SUMMARY

Item h	221	Psia
P_c	658	Psia
Q	523	MCF/D
P_w	223	Psia
P_d	526	Psia
D	244	MCF/D

Company El Paso Natural Gas Company

By H. L. Kendrick

Title Regional Well Test Engineer

Witnessed By

Company

RECEIVED
DEC 3 1967
OIL CON. COM.
DIST. 3