Initial Deliverability

NEW MEXICO OIL CONSERVATION COMMISSION

WELL DELIVERABILITY TEST REPORT FOR 19 69

Form C122-A
Revised 1-1-68

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

75-921

COMPANY			WELL NAME AND NUMBER		
El Paso Natural Gas Co.			Tapp No. 6		
UNIT LETTER	SECTION	TOWNSHIP	RANGE	PURCHASING PIPELINE	
A	22	28	8	El Paso Natural Gas	
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	2964	No tubing		
GAS PAY ZONE		WELL PRODUCING THRU		GAS GRAVITY	GRAVITY X LENGTH
FROM 2841 TO 2866		CASING XX TUBING		.677	1924
DATE OF FLOW TEST		DATE SHUT-IN PRESSURE MEASURED			
FROM 1-19-69 TO 1-27-69		11-12-68			

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.)
				0	0	449
(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**
449	449	1053		1053	P_d = 80 %P_c = 842	

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
817	1.0000	1.0000	Q = 817 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	$P_w^2 = P_t^2 + R^2$	$P_w = \sqrt{P_w^2}$
.131	20566	2694	201601	204295	452

DELIVERABILITY CALCULATION

$$D = Q\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2}\right]^n = 817 \left[\left(\frac{399845}{904514}\right)^n = (.4420)^n = .4997\right] = 408 \text{ MCF/D}$$

REMARKS:

New well first delivered 12-20-68

MC

SUMMARY

Item h	449	Psia
P_c	1053	Psia
Q	817	MCF/D
P_w	452	Psia
P_d	842	Psia
D	408	MCF/D

Company EL PASO NATURAL GAS COMPANY
By [signature] J. Kendrick
Title Regional Well Test Engineer
Witnessed By
Company

RECEIVED
FEB 3 1969
OIL CON. COM.
DIST. 3