Initial Deliverability Test

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
Blanco	n = .85	Pictured Cliffs	San Juan

87-012

COMPANY			WELL NAME AND NUMBER		
El Paso Natural Gas Company			Grambling No. 6		
UNIT LETTER	SECTION	TOWNSHIP	RANGE	PURCHASING PIPELINE	
K	22	29	9	El Paso Natural Gas Co.	
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	2294	No tubing		
GAS PAY ZONE		WELL PRODUCING THRU		GAS GRAVITY	GRAVITY X LENGTH
FROM 2145 TO 2164		CASING XX TUBING		.658	1411
DATE OF FLOW TEST			DATE SHUT-IN PRESSURE MEASURED		
FROM 7-9-69 TO 7-17-69			5-8-69		

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	224
(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**
224	224	921	-	921	P_d= 80 / 737 %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
564	1.0000	1.0000	Q = 564 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	$P_w^2 = P_t^2 + R^2$	$P_w = \sqrt{P_w^2}$
0.098	9802	961	50176	51137	226

DELIVERABILITY CALCULATION

$$D = Q\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2}\right]^n = 564 \left[\left(\frac{305072}{797165}\right)^n = (0.3826)^n = 0.4419\right] = 249 \text{ MCF/D}$$

(797,104)

REMARKS: New well 1st del. June 13, 1969

SUMMARY

Item h	224	Psia
P_c	921	Psia
Q	564	MCF/D
P_w	226	Psia
P_d	737	Psia
D	249	MCF/D

Company EL PASO NATURAL GAS COMPANY
By H. E. McAnally H. E. McAnally
Title Well Test Engineer
Witnessed By
Company

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AUG 8 1969
OIL CON. COM.
DIST. 3