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
So. Blanco	n = .85	Pictured Cliffs	San Juan

87-003

COMPANY			WELL NAME AND NUMBER		
El Paso Natural Gas			Bolack "B" No. 7		
UNIT LETTER	SECTION	TOWNSHIP	RANGE	PURCHASING PIPELINE	
B	33	28	8	El Paso Natural Gas Co.	
CASING O.D. - INCHES	CASING I.D. - INCHES	SET AT DEPTH - FEET	TUBING I.D. - INCHES	TUBING O.D. - INCHES	PERF. - TUBING DEPTH - FEET
2.875	2.441	2258	No tubing		
GAS PAY ZONE		WELL PRODUCING THRU		GAS GRAVITY	GRAVITY LENGTH
FROM 2099 TO 2170		CASING XX TUBING		.658	1381
DATE OF FLOW TEST			DATE SHUT-IN PRESSURE MEASURED		
FROM 7-2-69 TO 7-10-69			4-24-69		

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	186
(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 746**	**(n) Separator or Dehydrator Pr. (DWt) for critical flow only**
186	186	932	-	932		

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
136	1.0000	1.0000	Q = 136 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	$P_w^2 = P_t^2 + R^2$ Use P_t^2	$P_w = \sqrt{P_w^2}$
Friction Neg.					186

DELIVERABILITY CALCULATION

$$D = Q\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2}\right]^n = 136 \left[\left(\frac{312108}{834028}\right)^n = (0.3742)^n = 0.4339\right] = 59 \text{ MCF/D}$$

REMARKS:

New well 1st. del. June 9, 1969

SUMMARY

Item h	186	Psia
P_c	932	Psia
Q	136	MCF/D
P_w	186	Psia
P_d	746	Psia
D	59	MCF/D

Company: EL PASO NATURAL GAS COMPANY

By: H. E. McArell

Title: Well Test Engineer

Witnessed By:

Company:

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DIST. 3