Init.-Deliverability

NEW MEXICO OIL CONSERVATION COMMISSION

WELL DELIVERABILITY TEST REPORT FOR 1970

Form C122-A
Revised 1-1-68

POOL NAME	POOL SLOPE	FORMATION	COUNTY
Blanco	n = .75	MV	RA

87-183

COMPANY			WELL NAME AND NUMBER		
El Paso Natural Gas Company			San Juan 29-7 Unit No. 76-Y		
UNIT LETTER	SECTION	TOWNSHIP	RANGE	PURCHASING PIPELINE	
L	18	29	7	EPNG	
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	6060	2.375	1.995	5973
GAS PAY ZONE		WELL PRODUCING THRU		GAS GRAVITY	GRAVITY X LENGTH
FROM 5260 TO 5966		CASING TUBING xx		.652	~~5973~~ 3894
DATE OF FLOW TEST			DATE SHUT-IN PRESSURE MEASURED		
FROM 9-20-70 TO 9-28-70			7-24-70		

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	400
(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**
400	400	956	523	956	P_d= 80 %P_c = 765	

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
1782	1.0000	1.0000	Q = 1782 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	$P_w^2 = P_t^2 + R^2$	$P_w = \sqrt{P_w^2}$
.247	280709	69335	160000	229335	479

DELIVERABILITY CALCULATION

$$D = Q\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2}\right]^n = 1782 \left[\left(\frac{328711}{684601}\right)^n = (.4801)^n = .5768\right] = 1028 \text{ MCF/D}$$

REMARKS:

New Well, 1st del. September 3, 1970.

SUMMARY OK

Item h	400	Psia
P_c	956	Psia
Q	1782	MCF/D
P_w	479	Psia
P_d	765	Psia
D	1028	MCF/D

Company EL PASO NATURAL GAS COMPANY
By D. E. Mills
Title
Witnessed By
Company

RECEIVED
OCT 16 1970
OIL CON. COM.
DIST. 3