Initial Deliverability

NEW MEXICO OIL CONSERVATION COMMISSION

WELL DELIVERABILITY TEST REPORT FOR 19 70

Form C122-A
Revised 1-1-68

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

71-023

COMPANY			WELL NAME AND NUMBER		
El Paso Natural Gas Co.			San Juan 32-9 Unit No. 33		
UNIT LETTER	SECTION	TOWNSHIP	RANGE	PURCHASING PIPELINE	
M	6	31	9	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	6139	2.375	1.995	5996
GAS PAY ZONE		WELL PRODUCING THRU		GAS GRAVITY	GRAVITY X LENGTH
FROM 5228 TO 6004		CASING	TUBING XX	.659	3951
DATE OF FLOW TEST			DATE SHUT-IN PRESSURE MEASURED		
FROM 7-31-70 TO 8-8-70			6-12-70		

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.)
-	-	-	-	-	-	404
(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**
404	404	962	411	962	P_d= 80 = .08 P_c 770	

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
835	1.0000	1.0000	Q = 835 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	$P_w^2 = P_t^2 + R^2$	$P_w = \sqrt{P_w^2}$
.250	61635	15408	163216	178624	423

DELIVERABILITY CALCULATION

$$D = Q\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2}\right]^n = 835 \left[\left(\frac{332544}{746819\ 746820}\right)^n = (.4452)^n = .5450\right] = 455 \text{ MCF/D}$$

REMARKS:

OWWO 1st del. 6-15-70.

SUMMARY

Item h	404	Psia
P_c	962	Psia
Q	835	MCF/D
P_w	423	Psia
P_d	770	Psia
D	455	MCF/D

Company EL PASO NATURAL GAS COMPANY
By
Title
Witnessed By
Company

RECEIVED
AUG 20 1970
OIL CON. COM.
DIST. 3