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
BASIN	n = .75	DAKOTA	RA

86-611

COMPANY			WELL NAME AND NUMBER		
EL PASO NATURAL GAS CO			SJ 29-6 UNIT #79		
UNIT LETTER	SECTION	TOWNSHIP	RANGE	PURCHASING PIPELINE	
M	24	29	6	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
4.500	4.052	8171	1.660	1.380	8106
GAS PAY ZONE		WELL PRODUCING THRU		GAS GRAVITY	GRAVITY X LENGTH
FROM 8042 TO 8146		CASING	TUBING X	0.678	5496
DATE OF FLOW TEST			DATE SHUT-IN PRESSURE MEASURED		
FROM 10/08/69 TO 10/16/69			07/31/69		

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	0	0	0	0	451
(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= 50 %P_c**	**(n) Separator or Dehydrator Pr. (DWt) for critical flow only**
451	451	2668	2668	2668	1334	

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
810	1.0000	1.0000	Q = 810 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	$P_w^2 = P_t^2 + R^2$	$P_w = \sqrt{P_w^2}$
.329	397,723	130851	203401	334252	578

DELIVERABILITY CALCULATION

$$D = Q\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2}\right]^n = 810\left[\left(\frac{5338668}{6783972}\right)^n = (0.7869)^n = 0.8355\right] = 677 \text{ MCF/D}$$

REMARKS: New Well 1st Del. Sept. 19, 1969.
POOL TABLE SLOPE OF .75 USED FOR N.

SUMMARY

Item h	451	Psia
P_c	2668	Psia
Q	810	MCF/D
P_w	578	Psia
P_d	1334	Psia
D	677	MCF/D

Company EL PASO NATURAL GAS CO
By R. E. Stauffer
Title
Witnessed By
Company

RECEIVED
NOV 26 1969

69/11/19 2280 86-611