

Initial Deliverability

NEW MEXICO OIL CONSERVATION COMMISSION
WELL DELIVERABILITY TEST REPORT FOR 19

Form C122-A
Revised 1-1-68

POOL NAME Blanco	POOL SLOPE n = .75	FORMATION MV	COUNTY RA
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70-398

COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER San Juan 30-6 Unit No. 52		
UNIT LETTER K	SECTION 21	TOWNSHIP 30	RANGE 6	PURCHASING PIPELINE EPNG	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 5800	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 5742
GAS PAY ZONE FROM 5164 TO 5738		WELL PRODUCING THRU CASING TUBING XX		GAS GRAVITY .627	GRAVITY X LENGTH 3600
DATE OF FLOW TEST FROM 9-26-70 TO 10-4-70			DATE SHUT-IN PRESSURE MEASURED 8-21-70		

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) 0	(f) Friction Loss (a-c) or (b-c) 0	(g) Average Meter Pressure (Integr.) 470
(h) Corrected Meter Pressure (g+e) 470	(i) Avg. Wellhead Press. P _i = (h+f) 470	(j) Shut-in Casing Pressure (DWt) 674	(k) Shut-in Tubing Pressure (DWt) 499	(l) P _c = higher value of (j) or (k) 674	(m) Del. Pressure P _d = 80 % P _c 539	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 1182	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 1182 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-5})$.230	$(F_c Q_m)^2 (1000)$ 123502	$R^2 = (1-e^{-5}) (F_c Q_m)^2 (1000)$ 28406	P_t^2 220900	$P_w^2 = P_t^2 + R^2$ 249306	$P_w = \sqrt{P_w^2}$ 499
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DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = 1182 \left[\frac{163755}{204970} \right]^n = (.7989)^n = .8450 = 999 \text{ MCF/D}$$

REMARKS:

OWWO, 1st del. September 4, 1970.

SUMMARY

Item h	470	Psia
P _c	674	Psia
Q	1182	MCF/D
P _w	499	Psia
P _d	539	Psia
D	999	MCF/D

Company EL PASO NATURAL GAS COMPANY
By *A. E. M. Analyst*
Title
Witnessed By
Company

