

Initial Deliverability

NEW MEXICO OIL CONSERVATION COMMISSION
WELL DELIVERABILITY TEST REPORT FOR 19 71

Form C122-A
Revised 1-1-68

POOL NAME Blanco	POOL SLOPE n = .75	FORMATION MV	COUNTY Rio Arriba
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70-392

COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER San Juan 30-6 Unit No. 77		
UNIT LETTER K	SECTION 24	TOWNSHIP 30	RANGE 7	PURCHASING PIPELINE El Paso Natural Gas Co.	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 5619	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 5584
GAS PAY ZONE FROM 4942 TO 5582		WELL PRODUCING THRU CASING TUBING XX		GAS GRAVITY .644	GRAVITY X LENGTH 3596
DATE OF FLOW TEST FROM 9-4-71 TO 9-12-71			DATE SHUT-IN PRESSURE MEASURED 7-2-71		

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.) 416
(h) Corrected Meter Pressure (g+e) 416	(i) Avg. Wellhead Press. P _i = (h+f) 416	(j) Shut-in Casing Pressure (DWt) 870	(k) Shut-in Tubing Pressure (DWt) 718	(l) P _c = higher value of (j) or (k) 870	(m) Del. Pressure P _d = $\frac{80}{\%P_c}$ 696	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 1256	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 1256 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$ 0.230	$(F_c Q_m)^2 (1000)$ 139450	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 32074	P_t^2 173056	$P_w^2 = P_t^2 + R^2$ 205130	$P_w = \sqrt{P_w^2}$ 453
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 1256	$\left(\frac{272484}{551770} \right)^n =$ 0.4938	$=$ 0.5890	$=$ 740 MCF/D
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REMARKS: OWWO Re-1st del. 8-12-71

SUMMARY

Item h	416	Psia
P _c	870	Psia
Q	1256	MCF/D
P _w	453	Psia
P _d	696	Psia
D	740	MCF/D

Company EL PASO NATURAL GAS COMPANY

By _____
Title _____

