

Deliverability

NEW MEXICO OIL CONSERVATION COMMISSION

WELL DELIVERABILITY TEST REPORT FOR 19 70

Form C122-A
Revised 1-1-68

POOL NAME Blanco	POOL SLOPE $n = .75$	FORMATION MV	COUNTY RA
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71-081

COMPANY El Paso Natural Gas Co.			WELL NAME AND NUMBER San Juan 31-6 Unit No. 6		
UNIT LETTER L	SECTION 1	TOWNSHIP 30	RANGE 7	PURCHASING PIPELINE EPNG	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 6048	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 5988
GAS PAY ZONE FROM 5390 TO 5998		WELL PRODUCING THRU CASING TUBING XX		GAS GRAVITY .614	GRAVITY X LENGTH 3677 ✓
DATE OF FLOW TEST FROM 9-1-70 TO 9-9-70			DATE SHUT-IN PRESSURE MEASURED 6-29-70		

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.) 416
(h) Corrected Meter Pressure (g+e) 416 ✓	(i) Avg. Wellhead Press. $P_i = (h+f)$ 416 ✓	(j) Shut-in Casing Pressure (DWt) 789	(k) Shut-in Tubing Pressure (DWt) 789 ✓	(l) $P_c =$ higher value of (j) or (k) 789 ✓	(m) Del. Pressure $P_d =$ 80 ✓ 631 ✓	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 1014	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume $Q =$ 1014 ✓ MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$.235 ✓	$(F_c Q_m)^2 (1000)$ 90890 ✓	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 21359 ✓	P_i^2 173056 ✓	$P_w^2 = P_i^2 + R^2$ 194415 ✓	$P_w = \sqrt{P_w^2}$ 441 ✓
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$	1014 ✓	$\left(\frac{224360}{428106} \right)^n =$	$(.5240)^n =$	.6159 ✓	$=$	625 ✓ MCF/D
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REMARKS:

OWWO, 1st del., July 27, 1970.

SUMMARY

Item h	416 ✓	Psia	Company	EL PASO NATURAL GAS COMPANY
P _c	789 ✓	Psia	By	H. E. McNally
Q	1014 ✓	MCF/D	Title	
P _w	441 ✓	Psia	Witnessed By	
P _d	631 ✓	Psia	Company	
D	625 ✓	MCF/D		

