

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
---------------------	-----------------------	-----------------	--------------

70-378

COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER San Juan 30-6 Unit No. 84		
UNIT LETTER M	SECTION 11	TOWNSHIP 30	RANGE 7	PURCHASING PIPELINE EPNG	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 5863	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 5815
GAS PAY ZONE FROM 5090 TO 5804		WELL PRODUCING THRU CASING TUBING XX		GAS GRAVITY .644	GRAVITY X LENGTH 3745
DATE OF FLOW TEST FROM 9-1-70 TO 9-9-70			DATE SHUT-IN PRESSURE MEASURED 7-15-70		

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.) 429
(h) Corrected Meter Pressure (g+e) 429	(i) Avg. Wellhead Press. $P_i = (h+f)$ 429	(j) Shut-in Casing Pressure (DWt) 714	(k) Shut-in Tubing Pressure (DWt) 515	(l) P_c = higher value of (j) or (k) 714	(m) Del. Pressure $P_d = \frac{80}{\%P_c}$ 571	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 1655	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 1655 MCF/D
-----------------------------------	---	--	------------------------------------

WORKING PRESSURE CALCULATION

$(1-e^{-s})$.238	$(F_c Q_m)^2 (1000)$ 242123	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 57625	P_i^2 184041	$P_w^2 = P_i^2 + R^2$ 241666	$P_w = \sqrt{P_w^2}$ 492
----------------------	--------------------------------	--	-------------------	---------------------------------	-----------------------------

DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n$	1655	$\left[\frac{183755}{268130} \right]^n$	$(.6853)^n$	$.7532$	1247 MCF/D
--	------	--	-------------	---------	------------

REMARKS:

OWWO, 1st del. 7-23-70.

SUMMARY

Item h	429	Psi	Company	EL PASO NATURAL GAS COMPANY
P _c	714	Psi	By	H. E. M. S. D. Mally
Q	1655	MCF/D	Title	
P _w	492	Psi	Witnessed By	
P _d	571	Psi	Company	
D	1247	MCF/D		

