

initial
Deliverability

NEW MEXICO OIL CONSERVATION COMMISSION WELL DELIVERABILITY TEST REPORT FOR 1968

Form C122-A
Revised 1-1-68

POOL NAME Blanco	POOL SLOPE n = .85	FORMATION Pictured Cliffs	COUNTY San Juan
---------------------	-----------------------	------------------------------	--------------------

75868

COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER Day "A" No. 9		
UNIT LETTER E	SECTION 8	TOWNSHIP 29	RANGE 8	PURCHASING PIPELINE El Paso Natural Gas Company	
CASING O.D. - INCHES 2.875	CASING I.D. - INCHES 2.441	SET AT DEPTH - FEET 3250	TUBING O.D. - INCHES No Tubing	TUBING I.D. - INCHES	TOP - TUBING PERF. - FEET
GAS PAY ZONE FROM 3062 TO 3082		WELL PRODUCING THRU CASING X TUBING		GAS GRAVITY .631	GRAVITY X LENGTH 1932
DATE OF FLOW TEST FROM 10-23-68 TO 10-31-68			DATE SHUT-IN PRESSURE MEASURED 7-22-68		

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.) 305
(h) Corrected Meter Pressure (g+e) 305	(i) Avg. Wellhead Press. $P_t = (h+f)$ 305	(j) Shut-in Casing Pressure (DWt) 953	(k) Shut-in Tubing Pressure (DWt) -	(l) P_c = higher value of (j) or (k) 953	(m) Del. Pressure $P_d = \frac{80}{762} P_c$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 400	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 400 MCF/D
----------------------------------	---	--	-----------------------------------

WORKING PRESSURE CALCULATION

$(1-e^{-5})$ 0.131	$(F_c Q_m)^2 (1000)$ 4928	6	$R^2 = (1-e^{-5}) (F_c Q_m)^2 (1000)$ 646	P_t^2 93025	$P_w^2 = P_t^2 + R^2$ 93671	$P_w = \sqrt{P_w^2}$ 306
-----------------------	------------------------------	---	--	------------------	--------------------------------	-----------------------------

DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n$	400	$\left[\frac{327565}{814538} \right]^n$	$(0.4021)^n$	0.4610	184 MCF/D
--	-----	--	--------------	--------	-----------

REMARKS: New well first delivered 9-28-68.

SUMMARY

Item h 305 Psia
P_c 953 Psia
Q 400 MCF/D
P_w 306 Psia
P_d 762 Psia
D 184 MCF/D

Company El Paso Natural Gas Company
By H.E. McAnally H.E. McAnally
Title Well Test Engineer
Witnessed By
Company

