

NEW MEXICO OIL CONSERVATION COMMISSION
INITIAL WELL DELIVERABILITY TEST REPORT FOR 19 68

Form C122-A
Revised 1-1-66

70230

POOL NAME Blanco	POOL SLOPE n = .75	FORMATION Mesa Verde	COUNTY San Juan
---------------------	-----------------------	-------------------------	--------------------

COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER Hughes No. 3		
UNIT LETTER B	SECTION 20	TOWNSHIP 29	RANGE 8	PURCHASING PIPELINE El Paso Natural Gas Company	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 5525	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 5433
GAS PAY ZONE FROM 4678 TO 5484		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY .699	GRAVITY X LENGTH 3798
DATE OF FLOW TEST FROM 12-23-67 TO 12-31-67			DATE SHUT-IN PRESSURE MEASURED 11-30-67		

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.) 497
(h) Corrected Meter Pressure (g + e) 497	(i) Avg. Wellhead Press. $P_t = (h + f)$ 497	(j) Shut-in Casing Pressure (DWt) 820	(k) Shut-in Tubing Pressure (DWt) 598	(l) $P_c =$ higher value of (j) or (k) 820	(m) Del. Pressure $P_d = \frac{80}{656} \% P_c$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 1461	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 1461 MCF/D
-----------------------------------	---	--	------------------------------------

WORKING PRESSURE CALCULATION

$(1 - e^{-s})$.241	$(F_c Q_m)^2 (1000)$ 188678	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$ 45471	P_t^2 247009	$P_w^2 = P_t^2 + R^2$ 292480	$P_w = \sqrt{P_w^2}$ 541
------------------------	--------------------------------	--	-------------------	---------------------------------	-----------------------------

DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = 1461 \left[\frac{242064}{379920} \right]^n = (.6371)^n = .7133 = 1042$ MCF/D

REMARKS:

OWWO. First Delivered After OWWO 12-7-67

OK

SUMMARY

Item h	497	Psia
P_c	820	Psia
Q	1461	MCF/D
P_w	541	Psia
P_d	656	Psia
D	1042	MCF/D

Company El Paso Natural Gas Company
 By H. I. Kendrick H. I. Kendrick
 Title Regional Well Test Engineer
 Witnessed By _____
 Company _____

