

NEW MEXICO OIL CONSERVATION COMMISSION
INITIAL WELL DELIVERABILITY TEST REPORT FOR 19 67

Form C122-A
 Revised 1-1-66

POOL NAME Blanco	POOL SLOPE n = .75	FORMATION Mesa Verde	COUNTY San Juan
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COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER Hughes No. 6 (OWWO)		
UNIT LETTER G	SECTION 21	TOWNSHIP 29N	RANGE 8W	PURCHASING PIPELINE El Paso Natural Gas Company	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 5500	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 5426
GAS PAY ZONE FROM 4738 TO 5440		WELL PRODUCING THRU CASING TUBING xx		GAS GRAVITY .714	GRAVITY X LENGTH 3874
DATE OF FLOW TEST FROM 3-10-67 TO 3-18-67			DATE SHUT-IN PRESSURE MEASURED 1-19-67		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 483	(b) Flowing Tubing Pressure (DWt) 483	(c) Flowing Meter Pressure (DWt) 892	(d) Flow Chart Static Reading 895	(e) Meter Error (Item c - Item d) -0-	(f) Friction Loss (a - c) or (b - c) -0-	(g) Average Meter Pressure (Integr.) 483
(h) Corrected Meter Pressure (g + e) 483	(i) Avg. Wellhead Press. $P_t = (h + f)$ 483	(j) Shut-in Casing Pressure (DWt) 892	(k) Shut-in Tubing Pressure (DWt) 895	(l) P_c = higher value of (j) or (k) 895	(m) Del. Pressure $P_d = \frac{80}{716} \% P_c$ 716	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 772	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 772 MCF/D
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WORKING PRESSURE CALCULATION

$(1 - e^{-R^2})$.245	$(F_c Q_m)^2 (1000)$ 52679	$R^2 = (1 - e^{-R^2}) (F_c Q_m)^2 (1000)$ 12906	P_t^2 233289	$P_w^2 = P_t^2 + R^2$ 246195	$P_w = \sqrt{P_w^2}$ 496
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 772	$\left[\frac{288369}{554830} \right]^n =$.5197	$\left[\frac{.5197}{.6120} \right]^n =$.472	473 MCF/D
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REMARKS:

First delivered after OWWO 2-1-67

SUMMARY

Item h	483	Psia
P_c	895	Psia
Q	772	MCF/D
P_w	496	Psia
P_d	716	Psia
D	472	MCF/D

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

