

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 Mesaverde	COUNTY San Juan
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COMPANY PUBCO PETROLEUM CORP.			WELL NAME AND NUMBER Federal 16		
UNIT LETTER M	SECTION 9	TOWNSHIP 27 North	RANGE 8 West	PURCHASING PIPELINE El Paso Natural Gas Co.	
CASING O.D. - INCHES 5.5	CASING I.D. - INCHES 4.950	SET AT DEPTH - FEET 7,140	TUBING O.D. - INCHES 1.660	TUBING I.D. - INCHES 1.380	TOP - TUBING PERF. - FEET 5,286
GAS PAY ZONE FROM 5,157 TO 5,270		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY .625	GRAVITY X LENGTH 3,303 3304
DATE OF FLOW TEST FROM 12-11-67 TO 12-19-67			DATE SHUT-IN PRESSURE MEASURED 8,14-67		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 576	(b) Flowing Tubing Pressure (DWt) 516	(c) Flowing Meter Pressure (DWt) 516	(d) Flow Chart Static Reading 516	(e) Meter Error (Item c - Item d) 0 ✓	(f) Friction Loss (a - c) or (b - c) 0 ✓	(g) Average Meter Pressure (Integr.) 514
(h) Corrected Meter Pressure (g + e) 514 ✓	(i) Avg. Wellhead Press. $P_t = (h + f)$ 514 ✓	(j) Shut-in Casing Pressure (DWt) 879	(k) Shut-in Tubing Pressure (DWt) 716	(l) P_c = higher value of (j) or (k) 879 ✓	(m) Del. Pressure $P_d = \frac{580}{703}$ 703 ✓	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 536	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ $\frac{516}{516}$	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.000	Corrected Volume Q = 536 ✓
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f_c = 24.62

WORKING PRESSURE CALCULATION

$(1 - e^{-s})$.213 .214	$(F_c Q_m)^2 (1000)$ 174,134 25,396	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$ 5,409 37265	P_t^2 264,196 ✓	$P_w^2 = P_t^2 + R^2$ 269,605 301461	$P_w = \sqrt{P_w^2}$ 619 549
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n$ $\frac{536}{\frac{278,432}{503,036}}$ 536	$\left(\frac{278,432}{503,036} \right)^n = \frac{.5535}{.5909}$.6739	$\left(\frac{.5535}{.5909} \right)^n = \frac{.6739}{.6739}$.6739	361 MCF/D
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REMARKS:

1st del 11-24-67

SUMMARY

Item h **514** ✓ Psia
 P_c **879** ✓ Psia
 Q **536** ✓ MCF/D
 P_w **549** ✓ Psia
 P_d **703** ✓ Psia
 D **361** **343** MCF/D

Company **PUBCO PETROLEUM CORP**
 By **Glen O. Rhodes**
 Title **Field Foreman**
 Witnessed By **Jack Dunning**
 Company **Pubco Petroleum Corp.**



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