

ON

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

Form C122-A
Revised 1-1-66

POOL NAME Basin	POOL SLOPE n = 75	FORMATION Dakota	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 7,462	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 7,140
GAS PAY ZONE FROM 7,212 TO 7,352		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY .678	GRAVITY X LENGTH 4,840 ✓
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) 525	(b) Flowing Tubing Pressure (DWt) 525	(c) Flowing Meter Pressure (DWt) 525	(d) Flow Chart Static Reading 524	(e) Meter Error (Item c - Item d) +1 ✓	(f) Friction Loss (a-c) or (b-c) 0 ✓	(g) Average Meter Pressure (Integr.) 521
(h) Corrected Meter Pressure (g + e) 522 ✓	(i) Avg. Wellhead Press. $P_t = (h + f)$ 522 ✓	(j) Shut-in Casing Pressure (DWt) Packer	(k) Shut-in Tubing Pressure (DWt) 1,985	(l) $P_c =$ higher value of (j) or (k) 1,985 ✓	(m) Del. Pressure $P_d =$ 50 % P_c 992 ✓	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 180	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ $\frac{525}{524}$ 1.0019	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.00096 ✓	Corrected Volume $Q =$ 180 ✓ MCF/D
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WORKING PRESSURE CALCULATION

$(1 - e^{-s})$.297 ✓	$(F_c Q_m)^2 (1000)$ 2,862 ✓	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$ 850 ✓	P_t^2 272,484	$P_w^2 = P_t^2 + R^2$ 273,334 ✓	$P_w = \sqrt{P_w^2}$ 523 ✓
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$	$\frac{180}{\frac{2,956,161}{3,666,891}} =$	$\left[\frac{2,956,161}{3,666,891} \right]^n =$	$\frac{.80617}{.85073} =$	$\frac{153}{180}$ MCF/D
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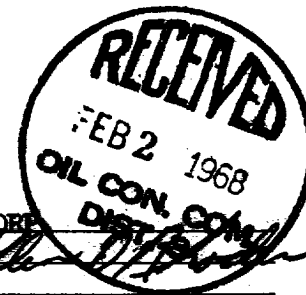
REMARKS:

1-AR del 11-24-67

SUMMARY

Item h 522 Psia
 P_c 1,985 1985 Psia
 Q 180 MCF/D
 P_w 523 Psia
 P_d 992 Psia
 D 153 153 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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