

NEW MEXICO OIL CONSERVATION COMMISSION
INITIAL WELL DELIVERABILITY TEST REPORT FOR 19 73

Form C122-A
 Revised 1-1-66

POOL NAME Blanco	POOL SLOPE $n = .85$	FORMATION Pictured Cliffs	COUNTY San Juan
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COMPANY Tenneco Oil Company			WELL NAME AND NUMBER Riddle #8x		
UNIT LETTER I	SECTION 7	TOWNSHIP 30	RANGE 9	PURCHASING PIPELINE El Paso Natural Gas Co.	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 3313	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 3167
GAS PAY ZONE FROM 3234 TO 3260		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY .672	GRAVITY X LENGTH 2128
DATE OF FLOW TEST FROM 7-15-73 TO 7-23-73			DATE SHUT-IN PRESSURE MEASURED 7-30-73		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 162	(b) Flowing Tubing Pressure (DWt) 157	(c) Flowing Meter Pressure (DWt) 157	(d) Flow Chart Static Reading 152	(e) Meter Error (Item c - Item d) 5	(f) Friction Loss (a - c) or (b - c) 0	(g) Average Meter Pressure (Integr.) 161
(h) Corrected Meter Pressure (g + e) 166	(i) Avg. Wellhead Press. $P_t = (h + f)$ 166	(j) Shut-in Casing Pressure (DWt) 472	(k) Shut-in Tubing Pressure (DWt) 442	(l) $P_c =$ higher value of (j) or (k) 472	(m) Del. Pressure $P_d = \frac{80}{378} \% P_c$ 378	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 614	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0329	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0164	Corrected Volume $Q = \frac{614}{1.0164} = \mathbf{624}$ MCF/D
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WORKING PRESSURE CALCULATION

$(1 - e^{-s})$.143	$(F_c Q_m)^2 (1000)$ 34,420	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$ 4,922	P_t^2 27,556	$P_w^2 = P_t^2 + R^2$ 32,478	$P_w = \sqrt{P_w^2}$ 180
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{624}{1} = \mathbf{624}$	$\left[\frac{79,900}{190,306} \right]^n = \frac{.4199}{.4783} = \mathbf{.4783}$	$\mathbf{298}$ MCF/D
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REMARKS:

SUMMARY

Item h	166	Psia	 Company Tenneco Oil Company By _____ Title _____ Witnessed By Jack D. Cook Company Engineering & Production Service, Inc.
P _c	472	Psia	
Q	624	MCF/D	
P _w	180	Psia	
P _d	378	Psia	
D	298	MCF/D	

OK

