

NEW MEXICO OIL CONSERVATION COMMISSION
INITIAL WELL DELIVERABILITY TEST REPORT FOR 1978

Form CI22-A
 Revised 1-1-66

POOL NAME Blanco	POOL SLOPE n = .75	FORMATION Mesaverde	COUNTY San Juan
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COMPANY Southland Royalty Company			WELL NAME AND NUMBER Reese Mesa #1A		
UNIT LETTER 0	SECTION 12	TOWNSHIP 32 North	RANGE 8 West	PURCHASING PIPELINE Northwest Pipeline Corporation	
CASING O.D. - INCHES 7.000 4.500	CASING I.D. - INCHES 6.456 4.052	SET AT DEPTH - FEET 3992' 3845' - 6305'	TUBING O.D. - INCHES 1.900	TUBING I.D. - INCHES 1.610	TOP - TUBING PERF. - FEET 6173
GAS PAY ZONE FROM 6063 TO 6198		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY .581	GRAVITY X LENGTH 3587 ✓
DATE OF FLOW TEST FROM 02/19/78 TO 02/27/78			DATE SHUT-IN PRESSURE MEASURED 09/26/77		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 320	(b) Flowing Tubing Pressure (DWt) 259	(c) Flowing Meter Pressure (DWt) 256	(d) Flow Chart Static Reading 259	(e) Meter Error (Item c - Item d) -3 ✓	(f) Friction Loss (a - c) or (b - c) +3 ✓	(g) Average Meter Pressure (Integr.) 251
(h) Corrected Meter Pressure (g + e) 248 ✓	(i) Avg. Wellhead Press. $P_t = (h + f)$ 251 ✓	(j) Shut-in Casing Pressure (DWt) 1283	(k) Shut-in Tubing Pressure (DWt) 967	(l) P_c = higher value of (j) or (k) 1283 ✓	(m) Del. Pressure $P_d = 80\%$ P_c 1026 ✓	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 539	Quotient of $\frac{\text{Item c}}{\text{Item d}}$.9884 ✓	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$.9942 ✓	Corrected Volume Q = 536 ✓ MCF/D
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WORKING PRESSURE CALCULATION

$(1 - e^{-s})$.230 ✓	$(F_c Q_m)^2 (1000)$ 77,838 ✓	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$ 17,903 ✓	P_t^2 63,001 ✓	$P_w^2 = P_t^2 + R^2$ 80,904 ✓	$P_w = \sqrt{P_w^2}$ 284 ✓
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DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = 536 \left[\frac{593,413}{1,565,185} \right]^n = (.3791)^n = .4832 = 259 \text{ MCF/D}$$

REMARKS:

OK

SUMMARY

Item h 248 ✓ Psia
 P_c 1283 ✓ Psia
 Q 536 ✓ MCF/D
 P_w 284 ✓ Psia
 P_d 1026 ✓ Psia
 D 259 ✓ MCF/D

Company Southland Royalty Company
 By *[Signature]*
 Title District Production Manager
 Witnessed By _____
 Company _____

March 21, 1978



