

NEW MEXICO OIL CONSERVATION COMMISSION
INITIAL WELL DELIVERABILITY TEST REPORT FOR 19 69

Form C122-A
 Revised 1-1-66

POOL NAME Ballard P.C.	POOL SLOPE n = .85	FORMATION Pictured Cliffs	COUNTY Rio Arriba
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COMPANY John E. Schalk			WELL NAME AND NUMBER Cinco Diablos Y #2		
UNIT LETTER D	SECTION 9	TOWNSHIP 23N	RANGE 4W	PURCHASING PIPELINE EPNG Co.	
CASING O.D. - INCHES 4 1/2"	CASING I.D. - INCHES	SET AT DEPTH - FEET 2325'	TUBING O.D. - INCHES 1 1/4"	TUBING I.D. - INCHES 1.380	TOP - TUBING PERF. - FEET 2762'
GAS PAY ZONE FROM 2752' TO 2782'		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY .658	GRAVITY X LENGTH 1817 ✓
DATE OF FLOW TEST FROM 7/8/69 TO 7/16/69			DATE SHUT-IN PRESSURE MEASURED 3/28/69		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt)	(b) Flowing Tubing Pressure (DWt)	(c) Flowing Meter Pressure (DWt)	(d) Flow Chart Static Reading	(e) Meter Error (Item c - Item d)	(f) Friction Loss (a - c) or (b - c)	(g) Average Meter Pressure (Integr.)
220 ✓	169	168	$\frac{5.6}{157}$	+11 ✓	+1 ✓	175
(h) Corrected Meter Pressure (g + e)	(i) Avg. Wellhead Press. $P_t = (h + f)$	(j) Shut-in Casing Pressure (DWt)	(k) Shut-in Tubing Pressure (DWt)	(l) P_c = higher value of (j) or (k)	(m) Del. Pressure $P_d = \frac{80}{\%P_c}$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only
186 ✓	187 ✓	424	425 424	425 ✓	340 ✓	

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D	Quotient of $\frac{\text{Item c}}{\text{Item d}}$	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$	Corrected Volume
491 ✓	1.0701 ✓	1.0345	Q = 508 MCF/D ✓

WORKING PRESSURE CALCULATION

$(1 - e^{-s})$	$(F_c Q_m)^2 (1000)$	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$	P_t^2	$P_w^2 = P_t^2 + R^2$	$P_w = \sqrt{P_w^2}$
.124 ✓	156,424 ✓	19,397 ✓	34,969 ✓	54,366 ✓	233 ✓

DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$	508 ✓	$\left[\frac{65,025}{126,259} \right]^n \left(\frac{.5150}{.85} \right)^n =$	.5589 ✓	$=$	289 MCF/D ✓
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REMARKS:

SUMMARY		
Item h	186 ✓	Psia
P_c	425 ✓	Psia
Q	508 ✓	MCF/D
P_w	233 ✓	Psia
P_d	340 ✓	Psia
D	289 ✓	MCF/D

Company John E. Schalk
 By John L. Jacob
 Title Agent
 Witnessed By _____
 Company _____

