

NEW MEXICO OIL CONSERVATION COMMISSION
Initial WELL DELIVERABILITY TEST REPORT FOR 19 78

Form C122-A
Revised 1-1-66

POOL NAME Tapacito Pictured Cliffs	POOL SLOPE n = .85	FORMATION Pictured Cliffs	COUNTY Rio Arriba
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COMPANY Amoco Production Company			WELL NAME AND NUMBER Jicarilla Apache 102 #27		
UNIT LETTER J	SECTION 10	TOWNSHIP 26	RANGE 4	PURCHASING PIPELINE Gas Co of N.M.	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.092	SET AT DEPTH - FEET 3692	TUBING O.D. - INCHES 1.660	TUBING I.D. - INCHES 1.380	TOP - TUBING PERF. - FEET 3561
GAS PAY ZONE FROM 3518 TO 3548		WELL PRODUCING THRU CASING TUBING XX		GAS GRAVITY .690	GRAVITY X LENGTH 2457 ✓
DATE OF FLOW TEST FROM 4-16-78 TO 4-23-78			DATE SHUT-IN PRESSURE MEASURED 10-19-77		

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.)
						255
(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 $P_d = \frac{80}{100} P_c$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only
255	255	640	640	640	512	

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
278			$Q = 278$ MCF/D

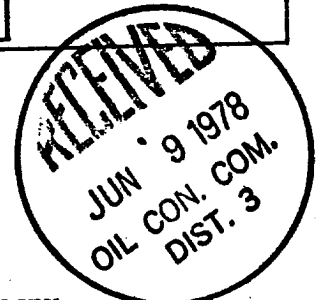
WORKING PRESSURE CALCULATION

$(1 - e^{-R^2})$ 0.164	$(P_c Q_m)^2 (1000)$ 46845	$R^2 = (1 - e^{-R^2}) (P_c Q_m)^2 (1000)$ 7683	P_t^2 65025	$P_w^2 = P_t^2 + R^2$ 72708	$P_w = \sqrt{P_w^2}$ 270
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DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = 278 \left[\frac{147456}{336892} \right]^n = \frac{.4377}{.4954} = 138 \text{ MCF/D}$$

REMARKS: "BLUE TEST"



SUMMARY

Item b 640 Poin
 P_c 278 Poin
 Q 270 MCF/D
 P_w 512 Poin
 P_d 138 Poin
 D 138 MCF/D

Company Amoco Production Company

By [Signature]
Title Area Engineer

Witnessed By _____

Company _____

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

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 Revised 1-1-66

POOL NAME	POOL SLOPE n =	FORMATION	COUNTY
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COMPANY			WELL NAME AND NUMBER		
UNIT LETTER	SECTION	TOWNSHIP	RANGE	PURCHASING PIPELINE	
CASING O.D. - INCHES	CASING I.D. - INCHES	SET AT DEPTH - FEET	TUBING O.D. - INCHES	TUBING I.D. - INCHES	TOP - TUBING PERF. - FEET
GAS PAY ZONE FROM TO		WELL PRODUCING THRU CASING TUBING		GAS GRAVITY	GRAVITY X LENGTH
DATE OF FLOW TEST FROM TO			DATE SHUT-IN PRESSURE MEASURED		

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.)
(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 $P_d = \text{_____} \% P_c$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

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 Q = _____ MCF/D
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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	$P_w^2 = P_t^2 + R^2$	$P_w = \sqrt{P_w^2}$
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{\frac{1}{n}} = \left[\left(\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right)^{\frac{1}{n}} \right]^n = \text{_____} = \text{_____} \text{ MCF/D}$
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REMARKS:

SUMMARY

Item h _____ Psia
 P_c _____ Psia
 Q _____ MCF/D
 P_w _____ Psia
 P_d _____ Psia
 D _____ MCF/D

Company _____
 By _____
 Title _____
 Witnessed By _____
 Company _____