

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

Form C122-A
 Revised 1-1-66

POOL NAME Astec	POOL SLOPE n= .85	FORMATION Pictured Cliffs	COUNTY San Juan
---------------------------	-----------------------------	-------------------------------------	---------------------------

COMPANY D.J. Simmons et al			WELL NAME AND NUMBER Simmons #12		
UNIT LETTER 0	SECTION 29	TOWNSHIP 29N	RANGE 9W	PURCHASING PIPELINE EPH	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.090	SET AT DEPTH - FEET 2429	TUBING O.D. - INCHES 1.660	TUBING I.D. - INCHES 1.380	TOP - TUBING PERF. - FEET 2250
GAS PAY ZONE FROM 2275 TO 2350		WELL PRODUCING THRU CASING TUBING I		GAS GRAVITY .642	GRAVITY X LENGTH 1445
DATE OF FLOW TEST FROM 4-21-67 TO 4-29-67			DATE SHUT-IN PRESSURE MEASURED 12-1-66		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 235	(b) Flowing Tubing Pressure (DWt) 235	(c) Flowing Meter Pressure (DWt) 693	(d) Flow Chart Static Reading	(e) Meter Error (Item c - Item d) 693	(f) Friction Loss (a - c) or (b - c) 554	(g) Average Meter Pressure (Integr.) 235
(h) Corrected Meter Pressure (g + e) 235	(i) Avg. Wellhead Press. $P_t = (h + f)$ 235	(j) Shut-in Casing Pressure (DWt) 693	(k) Shut-in Tubing Pressure (DWt)	(l) P_c = higher value of (j) or (k) 693	(m) Del. Pressure $P_d = .80 \% P_c$ 554	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 525	Quotient of $\frac{\text{Item c}}{\text{Item d}}$	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$	Corrected Volume Q = 525 MCF/D
---	---	--	--

$P_o = 24.62$

WORKING PRESSURE CALCULATION

$(1 - e^{-s})$.100	$(F_c Q_m)^2 (1000)$ 167081	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$ 16708	P_t^2 55225	$P_w^2 = P_t^2 + R^2$ 71933	$P_w = \sqrt{P_w^2}$ 268
-------------------------------	---------------------------------------	---	-------------------------	---------------------------------------	------------------------------------

DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 525	$\left[\frac{173333}{408316} \right]^n =$.4245	$\left[\frac{173333}{408316} \right]^n =$.4924	$=$ 254 MCF/D
--	--	--	-------------------------

REMARKS:

SUMMARY

Item h **235** Psia
 P_c **693** Psia
 Q **525** MCF/D
 P_w **268** Psia
 P_d **554** Psia
 D **254** MCF/D

Company **D.J. Simmons et al**
 By **Ashton B. Helen, Jr**
 Title **Supt.**
 Witnessed By _____
 Company _____

