NEW MEXICO OIL CONSERVATION COMMISSION

INITIAL WELL DELIVERABILITY TEST REPORT FOR 19 67

Form C122-A
Revised 1-1-66

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

COMPANY			WELL NAME AND NUMBER		
D.J. Simmons etal			Simmons #5		
UNIT LETTER	SECTION	TOWNSHIP	RANGE	PURCHASING PIPELINE	
E	24	29	9	EPNG	
CASING O.D. – INCHES	CASING I.D. – INCHES	SET AT DEPTH – FEET	TUBING O.D. – INCHES	TUBING I.D. – INCHES	TOP – TUBING PERF. – FEET
4.500	4.090	2640	1.660	1.380	2470
GAS PAY ZONE		WELL PRODUCING THRU		GAS GRAVITY	GRAVITY X LENGTH
FROM 2497 TO 2570		CASING	TUBING X	.640	1581
DATE OF FLOW TEST			DATE SHUT-IN PRESSURE MEASURED		
FROM 3-26-67 TO 4-4-67			12-30-66		

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.)
						253
(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 = .80 %P_c**	**(n) Separator or Dehydrator Pr. (DWt) for critical flow only**
253	253	873		873	698	

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
132			Q = 132 MCF/D

F_c = 24.62

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	$P_w^2 = P_t^2 + R^2$	$P_w = \sqrt{P_w^2}$
.109	10563	1151	64009	65160	255

DELIVERABILITY CALCULATION

$$D = Q\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2}\right]^n = 132 \left[\left(\frac{274925}{696969}\right)^n \left(\quad\right)^n = .3945 = .4536\right] = 60 \text{ MCF/D}$$

REMARKS:

OK

SUMMARY

Item h	253	Psia
P_c	873	Psia
Q	132	MCF/D
P_w	255	Psia
P_d	698	Psia
D	60	MCF/D

Company D.J. Simmons et al
By Ashton B. Yates, Jr.
Title Supt.
Witnessed By
Company

RECEIVED
MAY 1 2 1967
OIL CON. COM.
DIST. 3