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 #2		
UNIT LETTER	SECTION	TOWNSHIP	RANGE	PURCHASING PIPELINE	
B	26	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	2522	1.660	1.380	2330
GAS PAY ZONE		WELL PRODUCING THRU		GAS GRAVITY	GRAVITY X LENGTH
FROM 2380 TO 2438		CASING	TUBING X	.632	1473
DATE OF FLOW TEST			DATE SHUT-IN PRESSURE MEASURED		
FROM 3-17-67 TO 3-25-67			10-5-66		

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.)
						233
(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**
233	233	895		895	716	

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
594			Q = 594 MCF/D

P_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	$P_w^2 = P_t^2 + R^2$	$P_w = \sqrt{P_w^2}$
.101	213861	21600	54289	75889	275

DELIVERABILITY CALCULATION

$$D = Q\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2}\right]^n = 594\left[\left(\frac{288369}{725136}\right)^n = .3977^{\,n} = .4568\right] = 271 \text{ MCF/D}$$

REMARKS:

0.16

SUMMARY

Item h	233	Psia
P_c	895	Psia
Q	594	MCF/D
P_w	275	Psia
P_d	716	Psia
D	271	MCF/D

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

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