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 #6		
UNIT LETTER	SECTION	TOWNSHIP	RANGE	PURCHASING PIPELINE	
L	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	3040	1.660	1.380	2870
GAS PAY ZONE FROM 2910 TO 2968		WELL PRODUCING THRU CASING	TUBING X	GAS GRAVITY .651	GRAVITY X LENGTH 1868
DATE OF FLOW TEST FROM 3-10-67 TO 3-18-67			DATE SHUT-IN PRESSURE MEASURED 12-14-66		

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.)
						219
(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**
219	219	886		886	710	

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
286			286 Q = MCF/D

P_b = 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	$P_w^2 = P_t^2 + R^2$	$P_w = \sqrt{P_w^2}$
.127	49576	6296	47961	54257	233

DELIVERABILITY CALCULATION

$$D = Q\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2}\right]^n = \text{~~233~~ 286}\left[\left(\frac{284444}{734287}\right)^n = (.3874)^n = .4466\right] = \text{~~184~~ 128 MCF/D}$$

REMARKS:

SUMMARY

Item h	219	Psia
P_c	886	Psia
Q	286	MCF/D
P_w	233	Psia
P_d	710	Psia
D	~~184~~ 128	MCF/D

Company D. J. SIMMONS et al
By Ashton B. Gahen, Jr.
Title SUPT.
Witnessed By
Company

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