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NEW MEXICO OIL CONSERVATION COMMISSION

INITIAL WELL DELIVERABILITY TEST REPORT FOR 19 78

Form C122-A
Revised 1-1-66

POOL NAME	POOL SLOPE	FORMATION	COUNTY
S. Blanco	n=.85	Pictured Cliff	Rio Arriba

COMPANY			WELL NAME AND NUMBER		
Continental Oil Company			AXI APACHE N 13		
UNIT LETTER	SECTION	TOWNSHIP	RANGE	PURCHASING PIPELINE	
G	2	25N	4W	Gas Co. of N. Mex.	
CASING O.D. - INCHES	CASING I.D - INCHES	SET AT DEPTH - FEET	TUBING O.D - INCHES	TUBING I.D. - INCHES	TOP - TUBING PERF. - FEET
5.5	4.95	6256	1.25	1.380	3861
GAS PAY ZONE		WELL PRODUCING THRU		GAS GRAVITY	GRAVITY X LENGTH
FROM 3838 TO 3894		CASING	TUBING X	.690	2664 ✓
DATE OF FLOW TEST			DATE SHUT-IN PRESSURE MEASURED		
FROM 1-9-78 TO 1-17-78			1-25-78		

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.)
272	266	264	252	12 ✓	2 ✓	252
(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**
264 ✓	266 ✓	540	540	540 ✓	432 ✓	

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
120	1.0476 ✓	1.0235 ✓	Q = 122 ✓ MCF/D

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	$P_w^2 = P_t^2 + R^2$	$P_w = \sqrt{P_w^2}$
.176 ✓	~~29544~~ 9021	~~519974~~ 1587	~~69696~~ 70756	70216 72343	~~265~~ 269

DELIVERABILITY CALCULATION

$$D = Q\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2}\right]^n = 122\left[\left(\frac{104976}{\text{~~221384~~ 219257}}\right)^n = \left(\frac{\text{~~.47448~~}}{.47958}\right)^n = \text{~~.53034~~ .5347}\right] = \text{~~64~~ 65 MCF/D}$$

REMARKS:

Fe = 24.62

OK

SUMMARY

Item h	264 ✓	Psia
P_c	540 ✓	Psia
Q	122 ✓	MCF/D
P_w	~~265~~ 269	Psia
P_d	432 ✓	Psia
D	~~64~~ 65	MCF/D

Company Continental Oil Company
By Dennis L. Moore
Title Production Tech.
Witnessed By
Company

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