

NEW MEXICO OIL CONSERVATION COMMISSION
WELL DELIVERABILITY TEST REPORT FOR 1971

Form C122-A
 Revised 1-1-66

POOL NAME SOUTH BLANCO	POOL SLOPE n= 85	FORMATION PICTURED CLIFFS	COUNTY RIO ARRIBA
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COMPANY CONTINENTAL OIL COMPANY			WELL NAME AND NUMBER AXI APACHE 'J' NO.2		
UNIT LETTER P	SECTION 5	TOWNSHIP 25N	RANGE 5W	PURCHASING PIPELINE SO UNION GAS CO	
CASING O.D. - INCHES 5.5000	CASING I.D. - INCHES 5.0120	SET AT DEPTH - FEET 2970	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 2900
GAS PAY ZONE FROM 2900 TO 2916		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY 0.680	GRAVITY X LENGTH 1972
DATE OF FLOW TEST FROM 09-18-71 TO 09-26-71			DATE SHUT-IN PRESSURE MEASURED 10/11/71		

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.)
210	199	342	345	-3	-143	384
(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 $P_d = \frac{80}{\%P_c}$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only
381	238	378	378	378	302	

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
170	0.99130	0.99564	Q = 169 MCF/D

WORKING PRESSURE CALCULATION

$(1 - e^{-R})$	$(F_c Q_m)^2 (1000)$	$R^2 = (1 - e^{-R}) (F_c Q_m)^2 (1000)$	P_t^2	$P_w^2 = P_t^2 + R^2$	$P_w = \sqrt{P_w^2}$
0.13359	2.52479	337.2877	56644.	56981.	239

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{169}{\left[\frac{51680.}{85763.} \right]^n \left(\frac{0.60}{0.650} \right)^n} = 110 \text{ MCF/D}$$

REMARKS:

FC= 9.402129

BEFORE THE
OIL CONSERVATION COMMISSION
 Santa Fe, New Mexico

CONTINENTAL Exhibit No. **10**

SUMMARY

Item h	<u>381</u>	Psia
P_c	<u>378</u>	Psia
Q	<u>169</u>	MCF/D
P_w	<u>239</u>	Psia
P_d	<u>302</u>	Psia
D	<u>110</u>	MCF/D

Case No. **4628**
 Company CONTINENTAL OIL COMPANY
 By W. G. HENDRICKSON
 Title SENIOR STAFF ASSISTANT
 Witnessed By _____
 Company _____

1-26-72 Hendrickson