

NEW MEXICO OIL CONSERVATION COMMISSION
WELL DELIVERABILITY TEST REPORT FOR 19 71

Form C122-A
 Revised 1-1-66

POOL NAME SOUTH PLANCO	POOL SLOPE n= 85	FORMATION PICTURED CLIFFS	COUNTY RIO ARRIBA
----------------------------------	----------------------------	-------------------------------------	-----------------------------

COMPANY CONTINENTAL OIL COMPANY			WELL NAME AND NUMBER AXI APACHE O NO. 1		
UNIT LETTER A	SECTION 10	TOWNSHIP 25N	RANGE 4W	PURCHASING PIPELINE SO UNION GAS CO	
CASING O.D. - INCHES 5.5000	CASING I.D. - INCHES 5.0120	SET AT DEPTH - FEET 3860	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 3738
GAS PAY ZONE FROM 3741 TO 3811		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY 0.651	GRAVITY X LENGTH 2433
DATE OF FLOW TEST FROM 11-01-71 TO 11-08-71			DATE SHUT-IN PRESSURE MEASURED 11/15/71		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 212	(b) Flowing Tubing Pressure (DWt) 190	(c) Flowing Meter Pressure (DWt) 282	(d) Flow Chart Static Reading 284	(e) Meter Error (Item c - Item d) -2	(f) Friction Loss (a - c) or (b - c) -92	(g) Average Meter Pressure (Integr.) 303
(h) Corrected Meter Pressure (g + e) 301	(i) Avg. Wellhead Press. $P_t = (h + f)$ 209	(j) Shut-in Casing Pressure (DWt) 447	(k) Shut-in Tubing Pressure (DWt) 447	(l) P_c = higher value of (j) or (k) 447	(m) Del. Pressure $P_d = \frac{80}{\%P_c}$ 358	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 108	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 0.99295	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 0.99647	Corrected Volume Q = 108 MCF/D
---	---	--	--

WORKING PRESSURE CALCULATION

$(1 - e^{-R^2})$ 0.16217	$(F_c Q_m)^2 (1000)$ 1.03109	$R^2 = (1 - e^{-R^2}) (F_c Q_m)^2 (1000)$ 167.2231	P_t^2 43681.	$P_w^2 = P_t^2 + R^2$ 43848.	$P_w = \sqrt{P_w^2}$ 209
------------------------------------	--	--	--------------------------	--	------------------------------------

DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 108	$\left[\frac{71645.}{156128.} \right]^n (0.45)^n =$ 0.515	56 MCF/D
--	--	-----------------

REMARKS:

FC = 9.402129

SUMMARY

Item h 301 Psia
 P_c 447 Psia
 Q 108 MCF/D
 P_w 209 Psia
 P_d 358 Psia
 D 56 MCF/D

Company CONTINENTAL OIL COMPANY
 By W. G. HENDRICKSON
 Title SENIOR STAFF ASSISTANT
 Witnessed By _____
 Company _____

1-26-72