

NEW MEXICO OIL CONSERVATION COMMISSION
GAS WELL TEST DATA SHEET -- SAN JUAN BASIN

(To be used for Fruitland, Pictured Cliffs, Mesa Verde, & all Dakota except Barker Dome Storage Area)

POOL Blanco FORMATION Mesaverde COUNTY San Juan

PURCHASING PIPELINE Southern Union Gathering System DATE TEST FILED July 19, 1960

OPERATOR Astec Oil & Gas Company LEASE Richardson WELL NO. 5
UNIT G SEC. 21 TWP. 31 RGE. 12 PAY ZONE: From 4876 To 5155
CASING: OD 7 WT. .20 & .23 SET AT 5186 TUBING: OD 2 WT. .47 T.Perf. .5116-03
PRODUCED THROUGH: CASING X TUBING X GAS GRAVITY: MEASURED 0.685 ESTIMATED 0.685
DATE OF FLOW TEST: From 5/31 To 6/7 *Date S.I.P. MEASURED 6/14/60
METER RUN SIZE 4 ORIFICE SIZE .050 TYPE CHART S-B TYPE TAPS F1

OBSERVED DATA

Flowing casing pressure (Dwt)	555	psig + 12 =	567	psia	(a)
Flowing tubing pressure (Dwt)	525	psig + 12 =	537	psia	(b)
Flowing meter pressure (Dwt)	564	psig + 12 =	576	psia	(c)
Flowing meter pressure (meter reading when Dwt. measurement taken: Normal chart reading		psig + 12 =		psia	(d)
Square root chart reading (7.25) $\sqrt{}$ spring constant 10 =			526	psia	(d)
Meter error (c) - (d) or (d) - (c) \pm			plus/minus 10	psi	(e)
Friction loss, Flowing column to meter: (b) - (c) Flow through tubing: (a) - (c) Flow through casing... = 1 psi					(f)
Seven day average static meter pressure (from meter chart): Normal chart average reading 536 psig + 12 = 548 psia					(g)
Square root chart average reading () $\sqrt{}$ sp. const. =					(g)
Corrected seven day avge. meter press. (p _f) (g) + (e) = 558 psia					(h)
P _t = (h) + (f) = 559 psia					(i)
Wellhead casing shut-in pressure (Dwt) 807 psig + 12 = 819 psia					(j)
Wellhead tubing shut-in pressure (Dwt) 767 psig + 12 = 779 psia					(k)
P _c = (j) or (k) whichever well flowed through. = 779 psia					(l)
Flowing Temp. (Meter Run) 76 °F + 460 = 536 °Abs					(m)
P _d = $\frac{1}{2}$ P _c = $\frac{1}{2}$ (l) = 398 psia					(n)

FLOW RATE CALCULATION

$$Q = \frac{670}{(\text{integrated})} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \left(\frac{1.0199}{1.0099} \right)^{0.5} = 1.0099 \right) = 676 \text{ MCP/da.}$$

DELIVERABILITY CALCULATION

$$D = Q \quad 676$$

$\left \frac{P_c^2}{c} - \frac{P_d^2}{d} \right =$	42474.2	0.75
$\left \frac{P_o^2}{o} - \frac{P_w^2}{w} \right =$	285870	$\frac{34486}{?} = ?$ MCF/da.

SUMMARY

P_c = 779 psia
 Q = 676 Mof/day
 P_w = 567 psia
 P_d = 390 psia
 P_n = Mof/day

Company Aztec Oil & Gas Company
 By ORIGINAL SIGNED BY L. M. STEVENS
 Title L. M. Stevens, Dist. Engt.
 Witnessed by _____
 Company _____

* This is date of completion test.

* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-s})$	$(F_c Q)2$	$\frac{(F_c Q)^2}{R^2} (1-e^{-s})$	P_t^2 (Column 1)	$P_t^2 + R^2$	P_w	
3504	0.225	40.399	0.025	RFPA	312.461	321.571	567

4-221-0 1109
2201 02 High density

NEW MEXICO AIR COMMUNICATIONS CORPORATION
CABIN CREW - SAN JUAN PEZIN

stated Mr. A., who was at 411110 between 11 and 12 hours ago and off
(and again) said nothing Jueyse

TEST NO. 100 DATE 10-10-68 BY W.H. BROWN IN CHAMBER 1
TESTER W.H. BROWN REC'D. 10-10-68 BY W.H. BROWN IN CHAMBER 1

АТАД СИЧИЯНДО

ПОЛТАВСКАЯ ГРАДУСА

MCK/gp

INCITANDIAS EST DÆCUM ET

~~Jeep kaitseleidmata ei saanud ei olnud ega põletatud~~

s	$s_A + s_B$	$\frac{s_A}{s_A + s_B}$ (in mmol/L)	$(s_A - s_B)$	$(s_A + s_B)$	s_A	$s(s_A)$	$(s_A - s_B)$	s_B
100	100	100	0	100	50	50	0	50