

PHONE 334-6191
P. O. BOX "B"



JERRY WAYNE SANDEL
PRESIDENT

AZTEC, NEW MEXICO 87401

HOLE DEVIATION AFFIDAVIT

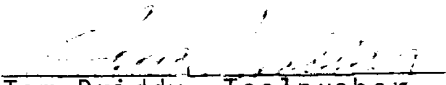
OPERATOR: William C. Russell
WELL NAME: Russell #95 Marron
DESCRIPTION OF LEASE: 1988' Fr S In. and 1960' Fr W In.,
Section 23- Township 27N- Range 8W,
San Juan County, New Mexico

<u>FROM</u>	<u>TO</u>	<u>DEVIATION</u>
0'	242'	3/4°
242'	800'	3/4°
800'	1230'	1/2°
1230'	1699'	1/2°
1699'	2385'	1/2°
2385'	2746'	1/2°
2746'	3360'	3/4°

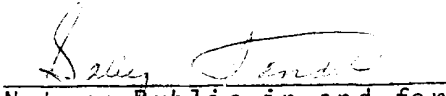


I hereby swear or (affirm) that the statements made on a full and correct report.

AZTEC WELL SERVICING CO.


Tom Priddy, Toolpusher

SWORN TO AND SUBSCRIBED BEFORE ME by Tom Priddy Toolpusher for AZTEC WELL SERVICING CO., this 10th day of November, 1980. To certify which witness my hand and seal of office.


Notary Public in and for
San Juan County
State of New Mexico

My commission expires January 3, 1983.

OPEN FLOW TEST DATA

Date: 12-1-80

Operator: W. C. Paulson

Lease: MAYRON #95

Location: Sec 23 T27N R8W

County: SAN JUAN State: N.M.

Formation: CR 2012

Pool: Monte Largo

Casing: 4 1/2 " Set @ 3300

Tubing: 1 1/2 " Set @ 3105

Pay Zone: 3055 ' To: 3062

Total Depth: 3350

Choke Size: 3/4 + 5/8

" Choke Constant = C = 12.365

Stimulation Method: None

Flow Through: Casing Tubing ✓

Shut-in Pressure Casing: 430 psig / 12 = 442 psia (Shut-in 8 days)

Shut-in Pressure Tubing: 430 psig / 12 = 442 psia

Flowing Pressure: P : 50 psig / 12 = 62 psia

Working Pressure: P_w : 200 psig / 12 = 212 psia

Temperature: T : 58° °F / 460 = 518 °Absolute

F_{pv} (from tables) : 1.011 Gravity est. 670 n 75

$$\text{Choke Volume} = Q = C \times P_c \times F_t \times F_g \times F_{pv}$$

$$12.365 \times 62 \times 1.0019 \times .9443 \times 1.011$$

$$Q = \underline{233} \text{ MCF/D}$$

Open Flow - Aof = Q

$$Aof = \left[\frac{P_c^2 - P_w^2}{195,364 - 150,420} \right]^{1/2} = 1.2988 - 1.2166$$

$$Aof = \underline{891} \text{ MCF/D}$$

Tested By: Paulson

Witnessed By: W. C. Paulson