

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO 87410 (505) 334-6178 PAX: (505) 334-6170

FAX TRANSMITTAL SHEET AND INVOICE

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O: DAVID CATANACH	FROM: ERNIE BUSCH
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PLEASE REMIT TO LETTERHEAD ADDRESS WHEN THERE IS A CHARGE

Richardson Operating Bushman Federal #6-1

Allocation Formula

- 1. Perform well tests on Fruitland Coal formation and on the total well production.
- 2. Determine the initial production rate from the Pictured Cliffs formation from the actual first months production from the following relation:
- Q_{PCi} = 1st Month Production * (Total Well Test FTC Well Test)/ Total Well Test.
- 3. Determine Pictured Cliff decline from the following equation:
- $D = (Q_{PCi} Q_{PCa}) / Estimated Total Pictured Cliffs Reserves$

where:

 Q_{PCa} = Pictured Cliffs rate at abandonment = 304 MCF/Mo. Total Pictured Cliffs Reserves = 87,770 MCF which is the average of the five offset wells.

4. Calculate Pictured Cliffs rate at any time from the following:

 $Q_{PC} = Q_{PCi}^* e ^ (-Dt)$ where t is any time in months.

5. The Fruitland Coal production can be calculated from the actual measured production for any month minus Q_{PC} .