

ER-2919

CARRIZO FIELD
BLOCK A
ENGINEERING REPORT

by

Barbara C. Bruce

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Abstract

This report on the Carrizo Field, fault block A evaluates the performance of the waterflood operation that started in August 1980. The report also compares results of previous studies, and recommends immediate action to improve the waterflood operation.

Fault block A had produced 45359 MBO (16.76% of OOIP) from the Helico Member as of August 1980. The study calculates high gas saturation at the start of the waterflood.

To improve the actual performance of the operation, it will be necessary to drill some producers and adjust present injection rates.

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Nomenclature

bbls	Barrels
Bbl/ac-ft	Barrels per acre-foot
BHP	Bottom Hole Pressure
Cps	Centipoise
FVF	Formation Volume Factor
Gp	Gas production
KTI	Permeability index
MBO	Thousands of barrels of oil
MMSCF	Million standard cubic feet
OIP	Oil in Place
OOIP	Original Oil in Place
PHI	Porosity
SwA	Water saturation, Archie's Equation
SwS	Water Saturation, Simandoux's Equation
VCL	Volume of Clay

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