



STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT  
OIL CONSERVATION DIVISION

BRUCE KING  
GOVERNOR  
LARRY KEHOE  
SECRETARY

POST OFFICE BOX 2088  
STATE LAND OFFICE BUILDING  
SANTA FE, NEW MEXICO 87501  
(505) 827-2434

November 17, 1981

Conoco Inc.  
Production Department  
P. O. Box 460  
Hobbs, New Mexico 88240

IPI-371

Attention: Mark K. Mosley

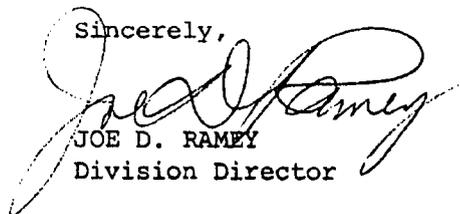
Re: Order No. WFX-491  
MCA Well No. 161, Unit J,  
Section 30, Township 17 South,  
Range 32 East, NMPM, Lea County,  
New Mexico

Gentlemen:

Based upon information and test data submitted by your letter of October 1, 1981, the maximum authorized wellhead injection pressure for the subject well is hereby increased from 730 psi to 2100 psi.

Please note that it remains the responsibility of the well operator to promptly report any of disposal well failures or indications that injected fluid is "out-of-zone" to the supervisor of the Division's Hobbs District Office.

Sincerely,



JOE D. RAMEY  
Division Director

JDR/MS/og

cc: Oil Conservation Division  
Hobbs, New Mexico

30-025-12781



Production Department  
Hobbs Division  
Western Hemisphere Petroleum Division

Conoco Inc.  
P.O. Box 460  
726 E. Michigan  
Hobbs, NM 88240  
(505) 393-4141

October 1, 1981

New Mexico Oil Conservation Division  
Department of Energy and Minerals  
P.O. Box 2088  
Santa Fe, New Mexico 87501

Attention Mr. Joe D. Ramey

Gentlemen:

Administrative Order No. WFX-491

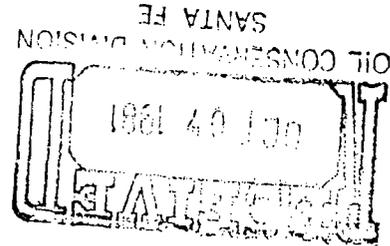
New Mexico Oil Conservation Division Administrative Order No. WFX-491 dated September 18, 1981, authorized Conoco Inc to inject water into the Grayburg and San Andres formations in the MCA well No. 161 located in Unit J of Section 30, Township 17 South, Range 32 East, NMPM, Lea County, New Mexico.

It was further ordered that the injection well or system be equipped with a pressure limiting device which will limit the wellhead pressure to a maximum of 730 pounds per square inch. It further provided that the Division Director may administratively authorize a pressure limitation in excess of the above, upon the operator establishing that such higher pressure will not result in fracturing of the confining strata.

By your letter dated August 12, 1980 (copy attached), Conoco was granted permission to increase the maximum surface injection pressure to 2100 psi on seven MCA Unit wells, within 1/2 mile of the subject well.

A breakdown pressure test in the MCA Unit well No. 256 (copy attached) indicated that the surface injection pressure would have to exceed 2300 psi to initiate fracture in the confining strata. The MCA Unit well No. 161 is located at 969 feet southeast of the MCA well No. 162, and at 898 feet northwest of the MCA Unit well No. 166; both are injection wells with surface injection pressure of 1800 psi. MCA Unit well No. 166 has been shut-in since December 1980 due to downhole mechanical problems.

It is our intention to utilize the MCA well No. 161 as a replacement to the shut-in MCA injection well No. 166, which had surface injection pressure of 1800 psi. In order to achieve an injection rate in the subject well comparable to the injection rates in the offset injection wells and to provide for secondary recovery efficiency in this area of



491

NMOCD

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October 1, 1981

the waterflood, it is respectfully requested that Conoco Inc be permitted to inject water into the MCA Unit well No. 161 at a pressure consistent with other injection wells in the same waterflood project, but not to exceed 2100 psi surface pressure.

Your consideration of this request will be appreciated.

Very truly yours,



AMS/HAI:rej

*M. K. Mosley*

*Mark K. Mosley* )

MCA #256

FRACTURE GRADIENT TEST  
PRESSURE AND RATE VS. TIME  
PERFORATIONS: 3539'-45'  
TEST RUN: JUNE 20, 1979

SCALE

Time: Each Major Div. ~ 15 min.

Pressure: Each Major Div. ~ 250 psig

Rate: Each Major Div. ~ 50 BPD

2250 psig

2000 psig

1750 psig

1500 psig

1250 psig

1000 psig

750 psig

100 BWPD

500 psig

50 BWPD

250 psig

0 BWPD

0 psig

11:40

11:17

11:12

10:42

10:52

10:27

10:05

10:20

Rate

Start of Test

Tubing-Fillup

