

New Mexico Energy, Minerals and Natural Resources Department

Bill Richardson
Governor

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Mark Fesmire
Division Director
Oil Conservation Division



Administrative Order PMX-164-A **August 11, 2009**

APPLICATION OF CONOCOPHILLIPS COMPANY TO ADD PERFORATIONS WITHIN THE LOWER SAN ANDRES IN ORDER TO INCREASE INJECTION CAPACITY IN THE MCA UNIT WELL No. 386 IN LEA COUNTY, NEW MEXICO

ADMINISTRATIVE ORDER **OF THE OIL CONSERVATION DIVISION**

Under the provisions of Division Order R-6157, as amended, ConocoPhillips Company (OGRID No. 217817) has made application to the Division on July 24, 2009 for permission to add perforations to expand its MCA Unit Pressure Maintenance/Enhanced Recovery Project in the Maljamar Grayburg San Andres Pool in Lea County, New Mexico.

THE DIVISION DIRECTOR FINDS THAT:

The application was filed in due form. No objections have been filed within the waiting period prescribed by Division Rule 26.8(C). The proposed well(s) are eligible for conversion to injection under the terms of Rule 26.8. The current operator is in compliance with Rule 5.9.

The proposed expansion of the above-referenced Pressure Maintenance Project will not cause waste nor impair correlative rights and should be approved.

IT IS THEREFORE ORDERED THAT:

The operator is hereby authorized to inject water for purposes of secondary recovery into Grayburg San Andres formation within the unitized interval [see Division Order No R-6157] of the MCA Unit in the following-described well. This well shall be equipped with plastic-lined tubing set in a packer located within 100 feet of the top of the actual injection interval. The maximum allowed surface injection pressure is specified below.



MCA Unit Well No. 386 (API No. 30-025-31100)

1921' FNL, 1995' FWL, Unit F, Sec 29, T17S, R32E, NMPM

Injection Interval (Perforated): 3,755 to 4,290 feet

Maximum Surface Injection Pressure = 2,150 psi

IT IS FURTHER ORDERED THAT:

The operator shall take all steps necessary to ensure that the injected water enters only the permitted injection interval and is not permitted to escape to other formations or onto the surface.

Prior to commencing injection operations into the well, injection casing shall be pressure tested from the surface to the packer setting depth to assure casing integrity.

The casing-tubing annulus shall openly extend to within 100 feet of the top of the injection interval and shall be loaded with an inert fluid and equipped with a pressure gauge at the surface or left open to the atmosphere to facilitate detection of leakage in the casing, tubing or packer.

The injection well or injection system shall be equipped with pressure limiting devices which will limit the wellhead pressure to the maximum surface injection pressure described above.

The Director of the Division may authorize an increase in injection pressure upon a proper showing by the operator that such higher pressure will not result in waste of oil and gas or migration of the injected fluid from the permitted injection interval. Such proper showing shall be accompanied by valid step-rate test(s) run in accordance with and acceptable to this office.

The operator shall notify the supervisor of the Division's district office of the date and time of the installation of injection equipment and of all mechanical integrity tests so that the same may be inspected and witnessed.

The operator shall immediately notify the supervisor of the Division's district office of any failure of tubing, casing, or packer and shall take such steps as may be timely and necessary to correct such failure or leakage.

The subject well(s) shall be governed by all provisions of Division Order No. R-6157, as amended and Rules 26.9-26.13 of the Division Rules and Regulations not inconsistent herewith.

PROVIDED FURTHER THAT, jurisdiction is retained by the Division for the entry of such further orders as may be necessary for the prevention of waste and/or protection of correlative rights or upon failure of the operator to conduct operations (1) to protect fresh water or (2) consistent with the requirements in this order, whereupon the Division may, after notice and hearing, terminate the injection authority granted herein.

The injection authority granted herein shall terminate one year after the effective date of this order if the operator has not commenced injection operations into the subject well, provided however, the Division, upon written request by the operator mailed prior to the one year deadline, may grant an extension thereof for good cause shown.



MARK E. FESMIRE, P.E.
Director

MEF/tw

cc: Oil Conservation Division – Hobbs
Bureau of Land Management - Carlsbad

Injection Permit Checklist (7/8/08)

Case _____ R- _____ SWD _____ WFX _____ PMX 164 API _____ Permit Date 8-4-09 UIC Qtr JAS
 # Wells 386 Well Name: MCA UNIT well NO. 386
 API Num: (30-) 025-31100 Spud Date: 1-7-91 New/Old: _____ (UIC primacy March 7, 1982)
 Footages 1921FWL 1995FWL Unit F Sec 29 Tsp 17S Rge 32E County Lea
 Operator: ConocoPhillips Company Contact Jalyn Fiske
 OGRID: 217817 RULE 40 Compliance (Wells) 6/4509 (Finan Assur) -OK-
 Operator Address: 3300N "A" ST. BLD. 6 Midland TX 79705
 Current Status of Well: injecting under PMX-164

Planned Work to Well:

Planned Tubing Size/Depth:

	Sizes Hole.....Pipe	Setting Depths	Cement Sx or Cf	Cement Top and Determination Method
Existing _____ Surface	<u>17 1/2 13 3/8</u>	<u>960'</u>	<u>850</u>	<u>Circulated</u>
Existing _____ Intermediate	<u>11 8 5/8</u>	<u>3650'</u>	<u>1000</u>	<u>"</u>
Existing _____ Long String	<u>7 7/8 5 1/2</u>	<u>4350</u>	<u>1200</u>	<u>"</u>

DV Tool _____ Liner _____ Open Hole _____ Total Depth 4350 PBDT _____

Well File Reviewed several times

Diagrams: Before Conversion ☒ After Conversion ☒ Elogs in Imaging File: ☒

Intervals:	Depths	Formation	Producing (Yes/No)
Above (Name and Top)			
Above (Name and Top)	<u>3064</u>	<u>Queen</u>	
Injection..... Interval TOP:	<u>4102</u>	<u>Grayburg-</u>	
Injection..... Interval BOTTOM:	<u>4290</u>	<u>SAN-ANDRES</u>	
Below (Name and Top)	<u>PBD 4295' or 4294'</u>		

4303'

R- 6157
PMX-164

2150 PSI Max. WHIP

NO Open Hole (Y/N)

NO Deviated Hole?

Grayburg 6
San Andres 7
San Andres 9

Sensitive Areas: Capitan Reef _____ Cliff House _____ Salt Depths _____

.... Potash Area (R-111-P) _____ Potash Lessee _____ Noticed? _____

Fresh Water: Depths: _____ Wells(Y/N) _____ Analysis Included (Y/N): _____ Affirmative Statement _____

Salt Water: Injection Water Types: _____ Analysis? _____

Injection Interval: Water Analysis: yes Hydrocarbon Potential _____

CO2 Injector
1991-1993

Notice: Newspaper(Y/N) ☒ Surface Owner _____ Mineral Owner(s) ☒

RULE 701B(2) Affected Parties: ConocoPhillips (only)

well was
returned
to water
injection
1-2003

Area of Review: Adequate Map (Y/N) ☒ and Well List (Y/N) ☒

Active Wells 14 Num Repairs 0 Producing in Injection Interval in AOR yes

..P&A Wells 11 Num Repairs 0 All Wellbore Diagrams Included? no

Questions to be Answered:

Required Work on This Well: _____ Request Sent _____ Reply: _____

AOR Repairs Needed: _____ Request Sent _____ Reply: _____

Request Sent _____ Reply: _____