State of New Mexico
Energy, Minerals and Natural Resources Department

Administrative Order IPI-487
May 13, 2015

Ms. Cindy Herrera-Murillo
Chevron Midcontinent BU
1616 W. Bender, Rm 134
Hobbs FMT, NM 88240

RE: **Injection Pressure Increase**
Injection Permit: Administrative Order WFX-835
Pool: Vacuum; Grayburg-San Andres Pool (Pool code: 62180)

1. **Central Vacuum Unit Well No. 456** API 30-025-38638
Unit F, Sec 36, T17S, R34E, NMPM, Lea County, New Mexico
Approved Injection Interval: 4300 ft to 4800 ft

2. **Central Vacuum Unit Well No. 457** API 30-025-38639
Unit G, Sec 36, T17S, R34E, NMPM, Lea County, New Mexico
Approved Injection Interval: 4300 ft to 4800 ft

Dear Ms. Herrera-Murillo:

Reference is made to your request on behalf of Chevron, USA, Inc. (OGRID 4323) received by the Division on March 27, 2015, to increase the maximum allowed surface tubing pressure on the above named wells.

These wells were permitted by the Division for tertiary recovery in the San Andres formation by Division Order R-5530-E and, specifically, Administrative Order WFX-835 approved April 14, 2008. The Order permitted the expansion of the Central Vacuum Unit Tertiary Recovery Project and approved the injection of produced water alternating with gas (carbon dioxide and produced gases) into the San Andres formation from approximately 4300 feet to 4800 feet. The Order allowed a maximum surface injection pressure of 1500 pounds per square inch gauge (psig) for water and 1850 psig for gas.

It is our understanding that the applicant is requesting an increase in the maximum surface injection pressure in order to enhance the tertiary recovery process. It is also understood that this increase will not result in the fracturing of the formation and confining strata.

Based on the step-rate tests for this wells completed on March 17, 2015, through 2 3/8-inch tubing, you are hereby authorized to inject at the following maximum surface tubing pressures:

Central Vacuum Unit Well No. 456	**API 30-025-38638**	**2210 psig for water**
Central Vacuum Unit Well No. 457	**API 30-025-38639**	**1900 psig for water**

The maximum surface injection pressure for gases (carbon dioxide and produced gas) in both wells shall not exceed 2200 psig as provided in Division Order R-5530-F.

This approval is based on the provision that the tubing size, packer setting depth and completion interval for each well does not change. Any future requested pressure increase will require resubmission of additional data and a new step-rate test. The Division Director retains the right to require at any time wireline verification of completion and packer setting depths in this well. This approval is subject to your being in compliance with all other Division rules, including but not limited to Division Rule 19.15.5.9 NMAC.

The Division Director may rescind this permitted injection pressure increase if it becomes apparent that the injected fluid is not being confined to the permitted disposal interval or is endangering any fresh water aquifer.

Sincerely,

David R. Catanach

DAVID R. CATANACH
Director

DRC/prg

cc: Oil Conservation Division – Hobbs District Office
State Land Office – Oil, Gas and Minerals Division
Well File 30-025-38638
Well File 30-025-38639