

State of New Mexico  
Energy, Minerals and Natural Resources Department

**Susana Martinez**  
Governor

**David Martin**  
Cabinet Secretary

**Tony Delfin**  
Deputy Cabinet Secretary

**David R. Catanach, Division Director**  
Oil Conservation Division



Administrative Order IPI-505

May 23, 2016

Administrative Application Reference No. pMAM1612760386

Ms. Denise Pinkerton  
Chevron U.S.A. Inc.  
15 Smith Road  
Midland, TX 79705

**RE: Injection Pressure Increase**  
Vacuum Grayburg San Andres Unit Tertiary Recovery Project  
Vacuum Grayburg San Andres Pool (62180)

Dear Sir or Madame:

Reference is made to your request on behalf of Chevron U.S.A. Inc. (OGRID 4323) received on May 5, 2016, to increase the maximum allowed surface tubing pressure on the following well(s):

Well No.	API Number	ULSTR	Order Allowing Injection	Existing Pressure Limit, Psi	Existing Tubing OD, In.
VGSAU #439	30-025-38786	B-1-18S-34E	R-4442-C (Case 14114)	1500	2-3/8
VGSAU #440	30-025-38787	C-1-18S-34E	R-4442-C (Case 14114)	1500	2-3/8

It is our understanding that the requested pressure increase is needed in order to increase the rate of injection and this pressure increase will not result in the fracturing of the formation and confining strata.

Based on the results of the submitted step rate injection test(s), the following shall be the new pressure limit(s) while equipped with **injection** tubing:

Well No.	Step Rate Test Date	New Pressure Limit	While Injecting	Injection Interval, Feet	Pressure Gradient (in psi/ft)
VGSAU #439	4/26/16	2050	water	4390 to 5002	0.47
VGSAU #440	4/28/16	2000	water	4294 to 4860	0.47

This approval is based on the provision that the tubing size, packer setting depth and completion interval for the well(s) does not change. Any future requested pressure increase will require resubmission of additional data and/or 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 the well(s). 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 any injection permit 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

Director

DRC/wvjj

cc: Oil Conservation Division – Hobbs District Office  
State Land Office - Oil, Gas, and Minerals Division  
Well File, Case 14114