

State of New Mexico
Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

David Martin
Cabinet Secretary

Brett F. Woods, Ph.D.
Deputy Cabinet Secretary

David R. Catanach, Division Director
Oil Conservation Division



Administrative Order IPI-496

August 26, 2015

Administrative Application Reference No. pMAM1523753455

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

RE: Injection Pressure Increase
Central Vacuum 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 August 17, 2015, 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.
CVU #61	30-025-25819	G-1-18S-34E	R-5530-E (Case 11650)	2775	2-3/8
CVU #199	30-025-32804	E-6-18S-35E	R-5530-E (Case 11650)	1540	2-7/8
CVU #256	30-025-41154	F-36-17S-34E	WFX-916	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)
CVU #61	6/26/15	2375	water	4352 to 4712	0.55
CVU #199	6/10/15	2050	water	4452 to 4956	0.46
CVU #256	8/6/15	2400	water	4238 to 4621	0.57

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,

A handwritten signature in black ink, reading "David R. Catanach". The signature is fluid and cursive, with the first name "David" and last name "Catanach" clearly legible.

DAVID R. CATANACH
Director

DRC/wvj

cc: Oil Conservation Division – Hobbs District Office
State Land Office - Oil, Gas, and Minerals Division
Well File(s), Case 11650, WFX-916