



New Mexico Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

Harrison H. Schmitt
Cabinet Secretary-Designate

Daniel Sanchez
Acting Division Director
Oil Conservation Division



Administrative Order IPI-390
January 25, 2010

EnerVest Operating, L.L.C.
1001 Fannin Street, Suite 800
Houston, Texas 77002-3500

Attention: Ms. Shirley Galik

RE: Injection Pressure Increase Request

West Loco Hills G4S Unit No. 34 (API No. 30-015-37017) Sand Unit (R-13128)
Unit N, Sec 11, T18 South, R 29 East NMPM, Eddy County, New Mexico
Loco Hills; Queen-Grayburg-San Andres Pool (39520)

Reference is made to your request on behalf of EnerVest Operating, L.L.C. (OGRID 143199) received by the Division January 10, 2011, to increase the surface injection pressure limit on the West Loco Hills G4S Unit Well No. 34 (API 30-015-37017).

The well was permitted to inject produced water into the unitized formation and governed by Division Order No. R-13128 Case No. 14243 issued in May, 2009, and the maximum surface injection pressure was limited to 510 psi.

Administrative Order No. IPI-377 was approved on June 22, 2010 allowing a surface pressure increase to 880 psi.

It is our understanding the well needs additional surface injection pressure to balance injection and withdrawal rates in order to optimize waterflood operations. The basis for granting this pressure increase is the step rate test run by Cardinal Surveys Company in December 2010.

EnerVest Operating, L.L.C. is hereby authorized to utilize the maximum surface injection pressures on the well of **1,006 psi**, provided the tubing, size, type, setting depth and perforation depths do not change, but is prohibited from injecting at pressures that would induce fracturing in individual wells.

This approval is subject to your being in compliance with all other Division rules, including but not limited to Division Rule 5.9.



The Division Director may rescind this injection pressure increase if it becomes apparent that the injected fluid is not being confined to the injection zone or is endangering any fresh water aquifers, or is causing waste of oil and gas.

Sincerely,

A handwritten signature in black ink, appearing to read 'Daniel Sanchez', with a long horizontal flourish extending to the right.

Daniel Sanchez
Acting Division Director

DS/tw

cc: Oil Conservation Division - Artesia
File: R-13128