



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON

Governor

Joanna Prukop

Cabinet Secretary



Lori Wrotenberg

Director

Oil Conservation Division

AMENDED ADMINISTRATIVE ORDER SWD-838-B

APPLICATION OF DUKE ENERGY FIELD SERVICES, LP FOR ACID GAS DISPOSAL, EDDY COUNTY, NEW MEXICO

ADMINISTRATIVE ORDER OF THE OIL CONSERVATION DIVISION

Under the provisions of Rule 701(B), Duke Energy Field Services, LP (DEFS) made application to the New Mexico Oil Conservation Division on May 7, 2002, for permission to complete for acid gas disposal its Duke AGI Well No. 1 to be located 1232 feet from the South line and 1927 feet from the East line (Unit O) of Section 7, Township 18 South, Range 28 East, NMPM, Eddy County, New Mexico. **On January 17, 2003, DEFS asked for an amended order with language as follows.**

THE DIVISION DIRECTOR FINDS THAT:

- (1) The application has been duly filed under the provisions of Rule 701(B) of the Division Rules and Regulations;
- (2) Satisfactory information has been provided that all offset operators and surface owners have been duly notified;
- (3) The applicant has presented satisfactory evidence that all requirements prescribed in Rule 701 will be met; and
- (4) No objections have been received within the waiting period prescribed by said rule.

IT IS THEREFORE ORDERED THAT:

Duke Energy Field Services, LP is hereby authorized to complete its Duke AGI Well No. 1 to be located 1232 feet from the South line and 1927 feet from the East line (Unit O) of Section 7, Township 18 South, Range 28 East, NMPM, Eddy County, New Mexico, in such a manner as to permit the injection of acid gas for disposal purposes into the Devonian formation from a depth of 11200 feet to 11500 feet through 2 7/8 inch tubing set in a packer located at approximately 11100 feet.

IT IS FURTHER ORDERED THAT:

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

Prior to commencing injection operations into the well and at least once per year thereafter, the casing shall be pressure tested from the surface to the packer setting depth to assure the integrity of said casing.

During drilling operations, the operator shall monitor the well for hydrocarbon shows. Any hydrocarbon shows within the Devonian shall be reported to the Division prior to commencing injection operations into the well.

The operator shall obtain native formation water samples from the Devonian formation subsequent to completion of drilling operations. These water samples shall be analyzed and the results sent to the Santa Fe Office of the Division.

The casing-tubing annulus shall be loaded and equipped with a pressure gauge at the surface to facilitate detection of leakage in the casing, tubing, or packer.

The operator shall ensure that injected acid gas is properly dehydrated prior to entering the Devonian injection zone.

The injection well or system shall be equipped with a pressure limiting device which will limit the wellhead pressure on the injection well to no more than 3240 psi while injecting Acid Gas with an approximate specific gravity of 0.8. The wellhead pressure on the injection well shall be no more than 2240 psi while injecting water. The operator shall attempt to maintain the injected fluid in the non-corrosive phase with minimum pressure regulating devices as necessary.

The Director of the Division may authorize an increase in injection pressure upon a proper showing by the operator of said well that such higher pressure will not result in migration of the injected gases from the Devonian formation. Such proper showing shall at least consist of a valid step-rate test run in accordance with and acceptable to this office.

The operator shall notify the supervisor of the Artesia District Office of the date and time of the installation of disposal equipment and of any mechanical integrity test so that the same may be inspected and witnessed.

The operator shall immediately notify the supervisor of the Artesia District Office of the Division of the failure of the tubing, casing, or packer in said well or the leakage of water, oil or gas from or around any producing or plugged and abandoned well within the area, and shall take such steps as may be timely and necessary to correct such failure or leakage.

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 operator shall submit monthly reports of the disposal operations on Division Form C-115, in accordance with Rule Nos. 706 and 1120 of the Division Rules and Regulations.

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, may grant an extension thereof for good cause shown.

Originally approved at Santa Fe, New Mexico, on the 29th day of May 2002. **Amended in Santa Fe, New Mexico, on this 22nd day of January 2003.**



LORI WROTENBERY, Director

LW/wvjj

cc: Oil Conservation Division – Artesia ✓