



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON

Governor

Joanna Prukop

Cabinet Secretary

Mark E. Fesmire, P.E.

Director

Oil Conservation Division

ADMINISTRATIVE ORDER SWD-993

APPLICATION OF LATIGO PETROLEUM, INC. FOR PRODUCED WATER DISPOSAL, EDDY COUNTY, NEW MEXICO.

ADMINISTRATIVE ORDER OF THE OIL CONSERVATION DIVISION

Under the provisions of Rule 701(B), Latigo Petroleum, Inc. made application to the New Mexico Oil Conservation Division on August 29, 2005, for permission to utilize for produced water disposal its Kimball Federal Well No. 1 (API No. 30-015-10746) located 720 feet from the North line and 790 feet from the West line of Section 6, Township 22 South, Range 25 East, NMPM, Eddy County, New Mexico.

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:

The applicant is hereby authorized to utilize its Kimball Federal Well No. 1 (API No. 30-015-10746) located 720 feet from the North line and 790 feet from the West line of Section 6, Township 22 South, Range 25 East, NMPM, Eddy County, New Mexico, in such manner as to permit the injection of produced water for disposal purposes into the Devonian formation through perforations from approximately 11,200 feet to 11,400 feet and through plastic-lined tubing set in a packer located within 100 feet of the top of the injection interval.

IT IS FURTHER ORDERED THAT:

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

As preparation and prior to injection, the operator shall:

- 1) Drill out cement plugs to 2,550 feet.
- 2) Run a Cement Bond Log on the 8-5/8 inch casing to determine the cement top. The cement top shall be reported to the Artesia District office of the Division and a copy of the log sent to both the District and the Division.
- 3) The operator shall then attempt to raise the cement top on the 8-5/8 inch casing by squeeze cementing operations to the surface.
- 4) Drill out all plugs, deepen the well into the Devonian, and run 5-1/2 inch casing.
- 5) The cementing of the 5-1/2 inch casing shall be designed to raise cement to the surface.
- 6) The Devonian shall be perforated and tested. The test results and the static fluid level shall be reported to the Division on a sundry form.
- 7) The operator shall supply any newly run electric logs to the Artesia District office.

After installing injection tubing, the casing shall be pressure tested from the surface to the packer setting depth to assure the integrity of said casing.

The casing-tubing annulus shall be loaded with an inert fluid and equipped with a pressure gauge or an approved leak detection device in order to determine leakage in the casing, tubing, or packer.

The wellhead injection pressure on the well shall be limited to **no more than 2,240 psi**. In addition, the injection well or system shall be equipped with a pressure limiting device in workable condition which shall, at all times, limit surface injection pressure to the maximum allowable pressure for this well.

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 fluid from the injection formation. Such proper showing shall 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 Division 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 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 provide written notice of the date of commencement of injection to the Artesia district office of the Division.

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.

Approved at Santa Fe, New Mexico, on this 21st day of September 2005.


MARK E. FESMIRE, P.E.
Director

MEF/wvj

cc: Oil Conservation Division – Artesia
Bureau of Land Management – Carlsbad