

State of New Mexico
Energy, Minerals and Natural Resources Department

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Oil Conservation Division



Administrative Order WFX-925
July 14, 2014

**ADMINISTRATIVE ORDER
OF THE OIL CONSERVATION DIVISION**

Under the provisions of Division Order R-12981, Apache Corporation (OGRID No. 873) has made application to the Division for permission to add four new injection wells to its West Blinebry-Drinkard Unit (WBDU) Waterflood Project in the North Eunice Blinebry-Tubb-Drinkard Pool (Pool code 22900) in Lea County, New Mexico. These wells are being proposed for injection into the Unitized interval that includes the Blinebry, Tubb, and Drinkard formations of the WBDU. These wells are proposed to complement existing injection wells in the south end of the Unit to complete uniform 40-acre, five-spot waterflood patterns.

THE DIVISION DIRECTOR FINDS THAT:

The application has been duly filed under the provisions of Division Rule 19.15.26.8B. NMAC and satisfactory information has been provided that affected parties as defined in said rule have been notified and no objections remain outstanding. The applicant has presented satisfactory evidence that all requirements prescribed in Rule 19.15.26.8 NMAC have been met and the operator is in compliance with Rule 19.15.5.9 NMAC.

The proposed expansion of the above-referenced waterflood project, will prevent waste, is in the best interests of conservation, will not impair correlative rights, and should be approved.

IT IS THEREFORE ORDERED THAT:

Apache Corporation, as operator, is hereby authorized to inject water into the following new wells for the purpose of secondary recovery through plastic-lined tubing set into a packer:

API No.	Well	Unit	Sec	Twp	Rng	Footage N/S	Footage E/W
30-025-Pending	West Blinebry Drinkard Unit No. 130W	A	17	21 S	37 E	780 FNL	540 FEL
30-025-Pending	West Blinebry Drinkard Unit No. 185W	O	8	21 S	37 E	695 FSL	1760 FEL
30-025-Pending	West Blinebry Drinkard Unit No. 188W	N	9	21 S	37 E	640 FSL	2170 FWL
30-025-Pending	West Blinebry Drinkard Unit No. 192W	J	8	21 S	37 E	1865 FSL	1985 FEL

The approved injection interval for the four wells will be the **Unitized Formation as approved in Ordering Paragraph (3)** of Division Order No. R-12981 dated August 11, 2008. The Unitized Formation is described as the interval from a depth of 75 feet above the stratigraphic Blinbry marker to the top of the Abo formation, as found on the Type Log from the Hawk B-1 Well No. 34 (API No. 30-025-36344), which is that interval correlative to the interval from 5584 feet to 6690 feet below the surface measured from the derrick floor as shown on the Type Log. These four wells are approved for initial perforations in the Drinkard formation from approximately 6100 feet to 6700 feet and, under this Order, shall be authorized for the addition of perforations for the remaining interval of the Unitized Formation.

The operator has also satisfied the requirement for notification of affected parties with the original application for the addition of perforations within approved injection interval, the Unitized Formation. As part of the Form C-103 to be submitted under Division Rule 19.15.7.14A.(f) NMAC to Division's District I office for approval of changes in the perforation interval, the operator shall include with this form documentation (such as a correlation of geophysical logs) that demonstrates the new perforated interval is within the Unitized Formation.

The approved maximum surface injection pressure shall be **1120 psig or 0.2 psig per foot of depth to the uppermost perforation in the injection well, whichever is less, as approved in Ordering Paragraph (13)** of Division Order No. R-12981 dated August 11, 2008. The operator shall set the injection packer in individual wells no more than 100 feet above the shallowest perforation for the permitted injection interval.

IT IS FURTHER ORDERED THAT:

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

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

The well shall pass an initial mechanical integrity test ("MIT") prior to initially commencing injection and prior to resuming injection each time any injection packer is unseated. All MIT testing procedures and schedules shall follow the requirements in Rule 19.15.26.11A. NMAC. The Division Director retains the right to require at any time wireline verification of completion and packer setting depths in this well.

The wellhead injection pressure on these wells shall be limited as listed above. In addition, the injection well or header system shall be equipped with a pressure limiting device in workable condition which shall, at all times, limit surface tubing pressures to the maximum allowable pressures for these wells.

Subject to the limitations within the hearing order permitting this project, the Director of the Division may authorize an increase in tubing pressure upon a proper showing by the operator of said well that such higher pressure will not result in migration of the injected fluids from the approved injection interval. Such proper showing shall be demonstrated by sufficient evidence

including but not limited to an acceptable Step-Rate Test.

The operator shall notify the supervisor of the Division's District I office of the date and time of the installation of injection equipment and of any MIT test so that the same may be inspected and witnessed. The operator shall provide written notice of the date of commencement of injection to the District I office. The operator shall submit monthly reports of the disposal operations on Division Form C-115, in accordance with Rules 19.15.26.13 and 19.15.7.24 NMAC.

Without limitation on the duties of the operator as provided in Rules 19.15.29 and 19.15.30 NMAC, or otherwise, the operator shall immediately notify the District I office of any failure of the tubing, casing or packer in the approved injection well, or of any leakage or release of water, oil or gas from around any produced or plugged and abandoned well in the area, and shall take such measures as may be timely and necessary to correct such failure or leakage.

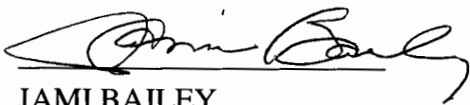
The injection authority granted under this order is not transferable except upon division approval. The division may require the operator to demonstrate mechanical integrity of any injection well that will be transferred prior to approving transfer of authority to inject.

The division may revoke this injection permit after notice and hearing if the operator is in violation of 19.15.5.9 NMAC.

Compliance with this order does not relieve the operator of the obligation to comply with other applicable federal, state or local laws or rules, or to exercise due care for the protection of fresh water, public health and safety and the environment.

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 or protectable waters or (2) consistent with the requirements in this order, whereupon the Division may, after notice and hearing, terminate the disposal authority granted herein. The subject wells shall be governed by all provisions of Division Order No. R-12981 and associated administrative orders.

The injection authority granted herein shall terminate two (2) years after the effective date of this order if the operator has not commenced injection operations into at least one of the subject wells, provided however, the Division, upon written request by the operator received prior to the two-year deadline, may grant an extension thereof for good cause shown.



JAMI BAILEY
Director

JB/prg

cc: New Mexico Oil Conservation Division – Hobbs Office
Bureau of Land Management – Carlsbad Field Office
Case File 14126

[Administrative Application No. pMAM1410738932]