

State of New Mexico
Energy, Minerals and Natural Resources Department

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Oil Conservation Division



Administrative Order SWD 645 A
April 24 2017

**ADMINISTRATIVE ORDER
OF THE OIL CONSERVATION DIVISION**

Pursuant to the provisions of Division Rule 19 15 26 8 (B) NMAC EOG Y Resources Inc (the operator) seeks an administrative order for its Mimosa Federal SWD Well No 3Y with a location 635 feet from the South Line and 330 feet from the East line Unit P of Section 4 Township 20 South Range 24 East NMPM Eddy County New Mexico for disposal of produced water

This Order supersedes and replaces Administrative Order SWD 645 issued on October 26 1996 which permitted injection in the Devonian and Ellenburger formations from 9700 feet to 11300 feet The amended Administrative Order changes the injection interval in the Mississippian Devonian and Montoya formations **to 9100 feet to 10530 feet** Next a CIBP plug shall be placed approximately 50 feet above the existing Ellenburger perforations with 520 feet of cement on top Lastly the approved injection pressure decreased **to 1820 psi**

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 have been received within the prescribed waiting period The applicant has presented satisfactory evidence that all requirements prescribed in Division Rule 19 15 26 8 NMAC have been met and the operator is in compliance with Division Rule 19 15 5 9 NMAC

IT IS THEREFORE ORDERED THAT

EOG Y Resources Inc (OGRID 25575) is hereby authorized to utilize its Mimosa Federal SWD Well No 3Y (API 30 015 29123) with a location 635 feet from the South Line and 330 feet from the East line Unit P of Section 4 Township 20 South Range 24 East NMPM Eddy County for disposal of oil field produced water (UIC Class II only) through a perforated interval within the Mississippian Devonian and Montoya formations from **9100 feet to 10530 feet** Injection will occur through either an internally coated 3 1/2 inch or smaller tubing and a packer set within 100 feet of the uppermost perforation

The operator shall set a CIBP at approximately at 11050 feet and spot sufficient cement to create a cement plug from approximately 11050 feet to 10530 feet

The operator shall set the plug back total depth of approximately 10530 feet

This permit does not permit disposal into the Ellenburger formation (lower Ordovician) or lost circulation intervals directly on top and obviously connected to this formation

Within one year after commencing disposal the operator shall submit to the Division copies of an injection survey run on this well consisting of a temperature log or equivalent run under representative disposal rates

IT IS FURTHER ORDERED THAT

The operator shall take all steps necessary to ensure that the disposed water enters only the approved disposal interval and is not permitted to escape to other formations or onto the surface. This includes the well construction proposed and described in the application.

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 disposal and prior to resuming disposal each time the disposal packer is unseated. All MIT procedures and schedules shall follow the requirements in Division 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 the well shall be limited to **no more than 1820 psi**. In addition the disposal well or system shall be equipped with a pressure limiting device in workable condition which shall at all times limit surface tubing pressure to the maximum allowable pressure for this well.

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 disposed fluid from the target formation. 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 II office of the date and time of the installation of disposal equipment and of any MIT so that the same may be inspected and witnessed. The operator shall provide written notice of the date of commencement of disposal to the Division's District office. The operator shall submit monthly reports of the disposal operations on Division Form C 115 in accordance with Division Rules 19 15 26 13 and 19 15 7 24 NMAC.

Without limitation on the duties of the operator as provided in Division Rules 19 15 29 and 19 15 30 NMAC or otherwise the operator shall immediately notify the Division's District I office of any failure of the tubing casing or packer in the 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

The disposal authority granted herein shall terminate two (2) years after the effective date of this order if the operator has not commenced injection operations into the subject well One year after the last date of reported disposal into this well the Division shall consider the well abandoned and the authority to dispose will terminate *ipso facto* The Division upon written request mailed by the operator prior to the termination date may grant an extension thereof for good cause

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

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



DAVID R CATANACH
Director

DRC/mam

cc Oil Conservation Division – Artesia District Office
Well File 30 015 29137
Bureau of Land Management Carlsbad