



**Cindy Herrera-Murillo**  
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Midcontinent BU

**Chevron North America**  
**Exploration and Production**  
**Company**  
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October 27, 2016

Re: Gravitas 2 State SWD  
SWD-1620  
Section 02, T26S, R27E,  
Eddy County, New Mexico

Oil Conservation Division  
Attn: Phillip Goetze/Engineering Department  
1220 S. St. Francis Drive  
Santa Fe, NM 87505

Dear Mr. Goetze,

Chevron U.S.A. Inc. respectfully gives notice of moving the Surface Hole Location of the above SWD. The new SHL will be M – Sect 2, T26S, R27E and 737' FSL and 1078' FWL in Eddy County, New Mexico. This move does not change the area review of the well. The well will remain in the Devonian-Silurian Formation. This change will not affect the offset operators nor any working or royalty owners. Therefore, no notification will be sent out. The offset operators and WI/RI owners remain the same.

Please note the change in the SWD -1620 Order of the SHL on the Gravitas 2 State SWD, API# 30-015-43892

Sincerely,

A handwritten signature in black ink that reads "Cindy Herrera-Murillo".

Cindy Herrera-Murillo  
Regulatory Specialist

**McMillan, Michael, EMNRD**

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**From:** Herrera-Murillo, Cindy O <CHerreraMurillo@chevron.com>  
**Sent:** Thursday, October 27, 2016 10:18 AM  
**To:** McMillan, Michael, EMNRD  
**Subject:** RE: Gravitas Amend letter

Mike,  
The reason we are moving the Gravitas is for Environmental issue.. There is some Chloride in the area to close to well and that is the reason we are moving the SFL. We do not want to have any issues with the Chloride once the well is drilled.  
Thanks,



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**From:** McMillan, Michael, EMNRD [mailto:Michael.McMillan@state.nm.us]  
**Sent:** Thursday, October 27, 2016 9:49 AM  
**To:** Herrera-Murillo, Cindy O  
**Subject:** **[\*\*EXTERNAL\*\*]** RE: Gravitas Amend letter

What is the reason for moving the location-I need to justify it in the letter.  
Mike

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**From:** Goetze, Phillip, EMNRD  
**Sent:** Thursday, October 27, 2016 9:36 AM  
**To:** Herrera-Murillo, Cindy O <CHerreraMurillo@chevron.com>  
**Cc:** McMillan, Michael, EMNRD <Michael.McMillan@state.nm.us>  
**Subject:** RE: Gravitas Amend ltr

Cindy:

Just heading out. The letter is fine. Mike will prepare an amended SWD order sometime next week that has the new location. All other aspects of the order including the approval date will remain the same. PRG

Phillip Goetze, PG  
Engineering Bureau, Oil Conservation Division, NM EMNRD  
1220 South St. Francis Drive, Santa Fe, NM 87505  
Direct: 505.476.3466

State of New Mexico  
Energy, Minerals and Natural Resources Department

Susana Martinez  
Governor

David Martin  
Cabinet Secretary

Tony Delfin  
Deputy Cabinet Secretary

David R. Catanach, Division Director  
Oil Conservation Division



Administrative Order SWD-1620  
March 22, 2016

**ADMINISTRATIVE ORDER  
OF THE OIL CONSERVATION DIVISION**

Pursuant to the provisions of Division Rule 19.15.26.8B, NMAC, Chevron U S A Inc. (the "operator") seeks an administrative order for its proposed Gravitas 2 State SWD Well No. 2 with a proposed location 400 feet from the South Line and 1560 feet from the West line, Unit N of Section 2, Township 26 South, Range 27 East, NMPM, Eddy County, New Mexico, for disposal of produced water.

**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:**

Chevron U S A Inc. (OGRID 4323), is hereby authorized to utilize its Gravitas 2 State SWD Well No. 2 (API 30-015-pending) with a proposed location of 400 feet from the South Line and 1560 feet from the West line, Unit N of Section 2, Township 26 South, Range 27 East, NMPM, Eddy County, for disposal of oil field produced water (UIC Class II only) through an open-hole interval within the Devonian and Silurian aged rocks from 13900 feet to 15100 feet. Injection will occur through internally-coated, 5½-inch or smaller tubing and a packer set within 100 feet of the uppermost perforation.

*Prior to commencing disposal, the operator shall submit mudlog and geophysical logs information to the Division's District geologist and Santa Fe Bureau Engineering office, showing evidence agreeable that only the permitted formations are open for disposal including a summary of depths (picks) for contacts of the formations which the Division shall use to amend this order for a final description of the depth for the injection interval.*

*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.*

*The operator shall supply the Division with a copy of a mudlog over the permitted disposal interval and an estimated insitu water salinity based on open-hole logs. If significant hydrocarbon shows occur while drilling, the operator shall notify the Division's District II office and the operator shall be required to receive written permission prior to commencing disposal.*

*The operator shall run a CBL (or equivalent) across the 6-5/8- inch liner through the top of the 8-5/8- inch casing to demonstrate a good cement bond between the liner and casing.*

*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 2780 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 II 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  
New Mexico State Land Office – Oil, Gas, and Minerals  
Application number - pMAM1601454134