

# Additional Information

Injection Extension Request  
3/30/20



March 26, 2020

New Mexico Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Attention: Adrienne Sandoval

Re: Injection Permit Extension  
SWD-2094

Ms. Sandoval:

Solaris Water Midstream is requesting an extension on our Injection Permit (SWD-2094) John Wayne 26 SWD #1 in Eddy Co., NM. This permit is due to expire on May 7, 2020. We began working with the BLM to obtain the necessary APD shortly after receiving the approved injection permit. Once we have obtained the necessary APD from the BLM, we will begin working on a plan to add this well to our drilling plan. Without knowing the timing for approval of the APD, it is difficult for us to provide an exact plan for when we would spud this well.

According to the GIS on the NMOCD website the AOR for the above referenced well has not changed.

I have enclosed a copy of the approved permit for your convenience. If you need additional information I can be contacted at [whitney.mckee@solarismidstream.com](mailto:whitney.mckee@solarismidstream.com) or 432-203-9020.

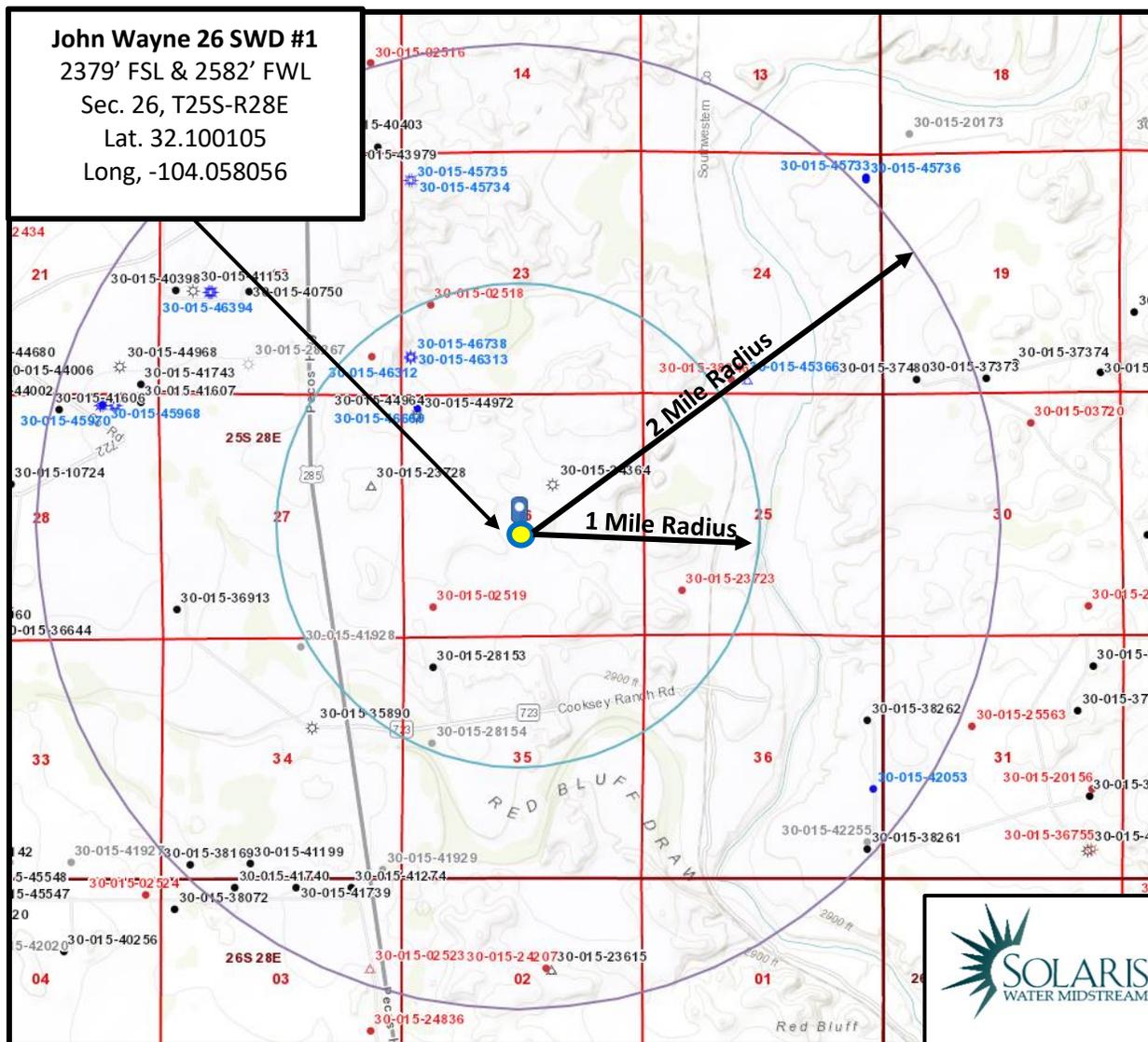
Thank you.

Sincerely,

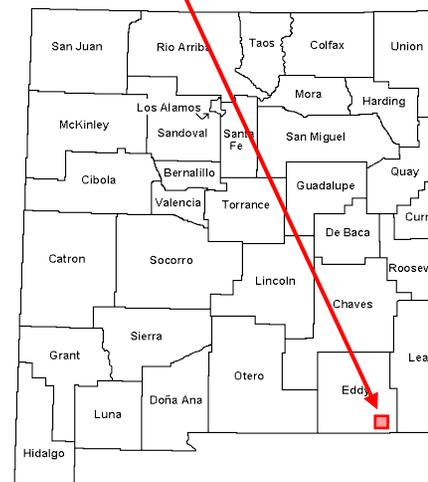
A handwritten signature in blue ink that reads "Whitney McKee".

Whitney McKee  
Regulatory Specialist

# John Wayne 26 SWD #1 – AOR Overview Map



13 miles southeast of Loving, NM  
 8 miles south of Malaga, NM



Eddy County, New Mexico

**Solaris Water Midstream, LLC  
John Wayne 26 SWD #1**

AOR Tabulation - 2 Miles (top of injection interval is 14,610')

OPERATOR	WELL NAME	API	WELL TYPE	WELL STATUS	LOCATION	SPUD DATE	MD	TVD	PENETRATE INJ. ZONE ?
COLGATE OPERATING, LLC	S MALAGA 35 STATE #001	30-015-28153	Oil	Active	D-35-25S-28E	10/4/1995	6530	6530	No
EOG Y RESOURCES, INC.	PINOCHLE BNP STATE COM #001H	30-015-36891	Oil	Plugged (site released)	22-25S-28E	1/30/2009	9	9	No
MEWBOURNE OIL CO	OXBOW 23 24 B2MP FEDERAL COM #001H	30-015-46458	Oil	New	D-26-25S-28E	12/31/1999	0	0	No
MEWBOURNE OIL CO	OXBOW 23 24 B2MP FEDERAL COM #001Y	30-015-46751	Oil	New	D-26-25S-28E	12/31/1999	0	0	No
MEWBOURNE OIL CO	OXBOW 23 24 W0LI FEDERAL COM #001H	30-015-46313	Gas	New	M-23-25S-28E	12/31/1999	0	0	No
MEWBOURNE OIL CO	OXBOW 23 24 W0MP FEDERAL COM #001H	30-015-46738	Gas	New	M-23-25S-28E	12/31/1999	0	0	No
MEWBOURNE OIL CO	OXBOW 23 24 W1MP FEDERAL COM #001H	30-015-46312	Gas	New	M-23-25S-28E	12/31/1999	0	0	No
MEWBOURNE OIL CO	OXBOW 26 25 B2DA FEDERAL COM #001H	30-015-46660	Oil	New	D-26-25S-28E	12/31/1999	0	0	No
MEWBOURNE OIL CO	OXBOW 26 25 W0DA FEDERAL COM #002H	30-015-44972	Gas	Active	D-26-25S-28E	7/8/2018	19495	9758	No
MEWBOURNE OIL CO	OXBOW 26 25 W1DA FEDERAL COM #001H	30-015-44964	Gas	Active	D-26-25S-28E	5/26/2018	19925	10038	No
OXY USA INC	SAM FEDERAL #002	30-015-24364	Gas	Active	G-26-25S-28E	12/26/1982	13460	13460	No
Permian Water Solutions, LLC	DORSTATE SWD #001	30-015-23728	Salt Water Disposal	Active	H-27-25S-28E	6/21/2010	8000	8000	No
POGO PRODUCING CO	S MALAGA 35 STATE #002	30-015-28154	Oil	Cancelled	E-35-25S-28E	12/31/1999	0	0	Unknown
PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL #001	30-015-23723	Oil	Plugged (site released)	M-25-25S-28E	1/1/2000	0	0	Unknown
PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL #001	30-015-02519	Oil	Plugged (site released)	M-26-25S-28E	1/1/2000	0	0	Unknown

State of New Mexico  
Energy, Minerals and Natural Resources Department

Michelle Lujan Grisham  
Governor

Sarah Cottrell Propst  
Cabinet Secretary

Todd E. Leahy, JD, PhD  
Deputy Secretary

Adrienne Sandoval, Director  
Oil Conservation Division



Administrative Order SWD-2094  
May 7, 2019

**ADMINISTRATIVE ORDER  
OF THE OIL CONSERVATION DIVISION**

Pursuant to the provisions of Division Rule 19.15.26.8(B) NMAC, Solaris Water Midstream, LLC (the “operator”) seeks an administrative order for its John Wayne 26 SWD Well No. 1 (the “proposed well”) with a location of 2379 feet from the South line and 2582 feet from the West line, Unit letter K of Section 26, Township 25 South, Range 28 East, NMPM, Eddy County, New Mexico, for the purpose of commercial disposal of produced water.

The injection authority for this proposed well was approved by the Director under administrative order SWD-1815 dated February 8, 2019. However, field inspection by the Bureau of Land Management identified surface issues requiring the relocation of the proposed well to approximately 37 feet southwest of the original surface location. This order supersedes order SWD-1815 which is rescinded upon approval of this order by the Director.

**THE DIVISION DIRECTOR FINDS THAT:**

The application has been duly filed under the provisions of Division Rule 19.15.26.8(B) NMAC and satisfactory information has been provided that affected parties have been notified. The applicant has presented satisfactory evidence that all requirements prescribed in Division Rule 19.15.26.8 NMAC for a radius of one mile from the surface location of the proposed well and an expanded Area of Review for wells penetrating the disposal interval for a radius of one mile have been met. Further, the operator is in compliance with Division Rule 19.15.5.9 NMAC.

**Application for Disposal in Devonian and Silurian Formations:** Due to the potential for the projected injection volume of the proposed well to impact an area greater than the one-half mile radius applied in Division Form C-108 and Division rule, the applicant has provided the following supplementary information:

1. Notification following Division Rule 19.15.26.8(B) NMAC for a radius of one mile from the surface location of the proposed well; and
2. An expanded Area of Review for wells penetrating the disposal interval for a radius of one mile from the surface location of the proposed well.
3. A statement by a qualified person assessing the potential of induced-seismic events associated with the disposal activities for the predicted service life of the proposed well.

**IT IS THEREFORE ORDERED THAT:**

The applicant, Solaris Water Midstream, LLC (OGRID 371643), is hereby authorized to utilize its John Wayne 26 SWD Well No. 1 (API 30-015-Pending) with a location of 2379 feet from the South line and 2582 feet from the West line, Unit letter K of Section 26, Township 25 South, Range 28 East, NMPM, Eddy County, for disposal of oil field produced water (UIC Class II only) through open-hole completion into an interval consisting of the Devonian and Silurian formations from approximately 14610 feet to approximately 15830 feet. Injection will occur through either an internally-coated, 5-<sup>1/2</sup>-inch or smaller tubing inside the surface and intermediate casings, and a 5-inch or smaller tubing inside the liner (39 pound or less). **Further, a packer shall be set within 100 feet of the disposal interval.** This permit does not allow disposal into:

1. The Woodford Shale and formations above the lower contact of the Woodford Shale;
2. Formations below the Devonian and Silurian formations including the Montoya formation and the Ellenburger formation (lower Ordovician); and
3. Any lost circulation intervals directly on top and obviously connected to these formations.

*The operator shall provide to the Division's District a Notice of Intent on Division Form C-103 with the anticipated date and time for the well to be spud. This initial Notice shall be filed with the District at least 72 hours prior to commencing drilling.*

*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 formation is 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. If significant hydrocarbon shows occur while drilling, the operator shall notify the Division's District I office and the operator shall be required to receive written permission prior to commencing disposal.*

*If cement does not circulate on any casing string, the operator shall run a CBL or other log to determine top of cement and shall notify the Division's District II office with the top of cement on the emergency phone number prior to continuing with any further cement activity with the proposed well. If cement did not tie back in to next higher casing shoe, the operator shall perform remedial cement job to bring cement, at a minimum, 200 feet above the next higher casing shoe. Further, the operator is expected to run a CBL from the base of the 7-5/8-inch liner to 500 feet above the top of the liner to ensure good cement across the liner, and good cement across liner and intermediate casing*

*Prior to commencing disposal, the operator shall obtain a bottom-hole pressure measurement representative of the open-hole completion. This information shall be provided with the written notice of the date of commencement of disposal.*

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 completion and construction of the well as described in the application and, if necessary, as modified by the District Supervisor.

*Within two years after commencing disposal, the operator shall conduct an injection survey, consisting of a temperature log or equivalent, over the entire injection interval using representative disposal rates. Copies of the survey results shall be provided to the Division's District II office and Santa Fe Engineering Bureau office.*

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 19.15.26.11(A) NMAC. The Division Director retains the right to require at any time wireline verification of completion and packer setting depths in this well.

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.

If the disposal well fails a MIT or if there is evidence that the mechanical integrity of said well is impacting correlative rights, the public health, any underground sources of fresh water, or the environment, the Division Director shall require the well to be shut-in within 24 hours of discovery and the operator shall redirect all disposal waters to another facility. The operator shall take the necessary actions to address the impacts resulting from the mechanical integrity issues in accordance with Division Rule 19.15.26.10 NMAC, and the well shall be tested pursuant to Rule 19.15.26.11 NMAC prior to returning to injection.

The wellhead injection pressure on the well shall be limited to **no more than 2922 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 formations. 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 II office. The operator shall submit monthly reports of the disposal operations that includes number of days of operation, injection volume, and injection pressure on Division Form C-115, in accordance with Division Rules 19.15.26.13 and 19.15.7.24 NMAC.

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 order after notice and hearing if the operator is in violation of Rule 19.15.5.9 NMAC.

The disposal authority granted herein shall terminate one (1) year 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.



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ANDRIENNE SANDOVAL  
Director

AS/prg

cc: Oil Conservation Division – Artesia District Office  
Bureau of Land Management – Carlsbad Field Office  
Administrative Application – pPRG1912745491