

Additional Information

Extension Request 3/29/21

March 25, 2021

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

Subject: Blackbuck Resources, LLC – Elizabeth Federal SWD #2 (Administrative Order No. SWD-2016) Injection Permit Extension Request

To Whom It May Concern,

On behalf of Blackbuck Resources, LLC (Blackbuck), ALL Consulting, LLC (ALL) is requesting an extension of the Injection Permit for the Elizabeth Federal SWD #2, a proposed saltwater disposal well, in Eddy County, NM. Per Administrative Order No. SWD-2016 (attached), the current disposal authority for the Elizabeth Federal SWD #2, is due to expire on May 1st, 2021. Blackbuck plans to drill the well by May 2022 but based on the ongoing Covid-19 pandemic and various other industry considerations, it is difficult to provide an exact date when this well will be spudded.

According to a review of the most recent NMOCD GIS well data records, there are no new Affected Parties within the 1-mile Area of Review (AOR) for the Elizabeth Federal SWD #2. There are additional drilled and proposed wells within the 1-mile AOR that were not present at the time of the original application; however, none of these additional wells penetrate the top of the proposed injection interval (16,425' below ground surface). The updated AOR Table and Map are attached.

If you have any questions, or if I may clarify any specific points, please feel free to call me at (918) 382-7581 or e-mail me at nalleman@all-llc.com.

Sincerely,
ALL Consulting



Nate Alleman
Sr. Regulatory Specialist

Attachment

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-2016
May 1, 2020

**ADMINISTRATIVE ORDER
OF THE OIL CONSERVATION DIVISION**

Pursuant to the provisions of Division Rule 19.15.26.8(B) NMAC, Blackbuck Resources LLC (“the Operator”) seeks an administrative order for its Elizabeth Federal SWD Well No. 2 (“the Proposed Well”) with a location of 175 feet from the South line and 1397 feet from the West line, Unit letter N of Section 27, Township 23 South, Range 31 East, NMPM, Eddy County, New Mexico, for the purpose of commercial disposal of produced water.

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 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.

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;
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; and
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, Blackbuck Resources LLC (OGRID 373619), is hereby authorized to utilize its Elizabeth Federal SWD Well No. 2 (API 30-015-Pending) with a location of 175 feet from the South line and 1397 feet from the West line, Unit letter N of Section 27, Township 23 South, Range 31 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 16,425 feet to approximately 17,695 feet. Injection will occur through internally-coated, 7-inch or smaller tubing within the 9 $\frac{5}{8}$ -inch production casing and 5 $\frac{1}{2}$ inch or smaller tubing within the 7 $\frac{5}{8}$ -inch liner with a packer set within 100 feet of the top 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 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.

Prior to commencing disposal, the operator shall submit mudlog and geophysical logs information, to the Division's District geologist and Santa Fe Engineering Bureau, 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 office and the operator shall be required to receive written permission prior to commencing disposal.

The operator shall set surface casing 25 feet below the top of the Rustler anhydrite in order to seal off protectable water.

The operator shall circulate to surface the cement for the 9 $\frac{5}{8}$ -inch production casing.

If cement does not circulate on any casing string, the operator shall run a cement bond log ("CBL") or other log to determine top of cement and shall notify the Artesia District 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 into the 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.

The operator shall run a CBL (or equivalent) for the 7 $\frac{5}{8}$ -inch liner to demonstrate the placement of cement and the cement bond with the tie-in with 9 $\frac{5}{8}$ -inch production casing string. The operator shall provide a copy of the CBL to the Division's District office prior to commencing disposal.

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.

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 3285 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.



ANDRIENNE SANDOVAL
Director

AS/dhr

cc: Oil Conservation Division – Artesia District Office
Admin. Appl. No. pMAM1908536708

Attachment: C-108 well completion diagram

MUD LOGGING E LOGGING/ DIRECTIONAL	CASING SIZE (IN.) CEMENT (SACKS)	DEPTH MD TVD	BOPE	FORMATION	HOLE SIZE (IN.)	MUD WT.	FRAC GRAD	TUBING
					SET AND GROUTED			
	30" GROUT TO SURFACE	120 / 120	OPEN		32"	8.8		
					24"	8.4		
	20" 133# J-55 BTC	655 780 / 780		PERMIAN RUSTLER FM (USDW)				
	800 SACKS, CEMENTED TO SURFACE		26-3/4"-3M ANNULAR/DIVERTER			8.4		
						9.5		
MUD LOGGING TO BEGIN AT 2500'					14 3/4"	9.5 to 10.0		
	13 3/8" 68# N-80 LTC	4,295 4,300 / 4,300		PERMIAN DELAWARE MTN. GROUP				
	1,000 SACKS, CEMENTED TO SURFACE		21-3/4" -5M ANNULAR			10.0		
			21-3/4" -5M BOP			9.4		
DV TOOL AT ±3,300'IN 9 5/8" OPEN HOLE, ECP BELOW		8,230		PERMIAN BONE SPRING FM.				
		11,595		PERMIAN WOLFCAMP FM.	12 1/4"	9.4 to 10.0		
	TOL	13,165/ 13,165						
	9 5/8" 53.5# L-80 LTC	13,365/ 13,365		13-5/8" -10M ANNULAR		10.0		
	5,250 SACKS, CEMENTED TO SURFACE IN TWO STAGES	13,365	13-5/8" -10M BOP			12.5		
		13,510		PENNSYLVANIAN STRAWN FM.				
		14,390		PENNSYLVANIAN ATOKA FM.	8 1/2"	12.5 to 14.6		
		16,035		PENNSYLVANIAN MORROW FM.				
	7 5/8" 39# P-110, ULTRA FJ	16,265 16,425		MISSISSIPPIAN LIME FM. WOODFORD SHALE FM. DEVONIAN				
	265 SACKS, EST. TOC 13,165' BACK UP INTO THE 9 5/8" CASING (VERIFIED WITH RADIAL CEMENT BOND LOG)	16,425 / 16,425	13-5/8" -10M ANNULAR			14.6	LOK-SET PACKER (OR EQUIV.) AT 16,405'	
			13-5/8" -10M BOP					
RUN #1 GR/NEUTRON 17,795- 0 USIT/CBL 16,425- 0	DUAL 0"	17,695	13-5/8" -10M ANNULAR	Base of FUSSELMAN FM	6 1/2"	9.0		
		TD 17,795/ 17,795	13-5/8" -10M BOP					

7" IPC TUBING

13,155

5 1/2" IPC TUBING

16,405'

ELIZABETH SWD FED 2

EDDY COUNTY, NEW MEXICO

PN # 1715.NM.00

FEBRUARY 2019



ALLCONSULTING
GOVERNMENT RELATIONS - ENERGY - PLANNING - TECHNOLOGY
ENGINEERING - ENVIRONMENTAL

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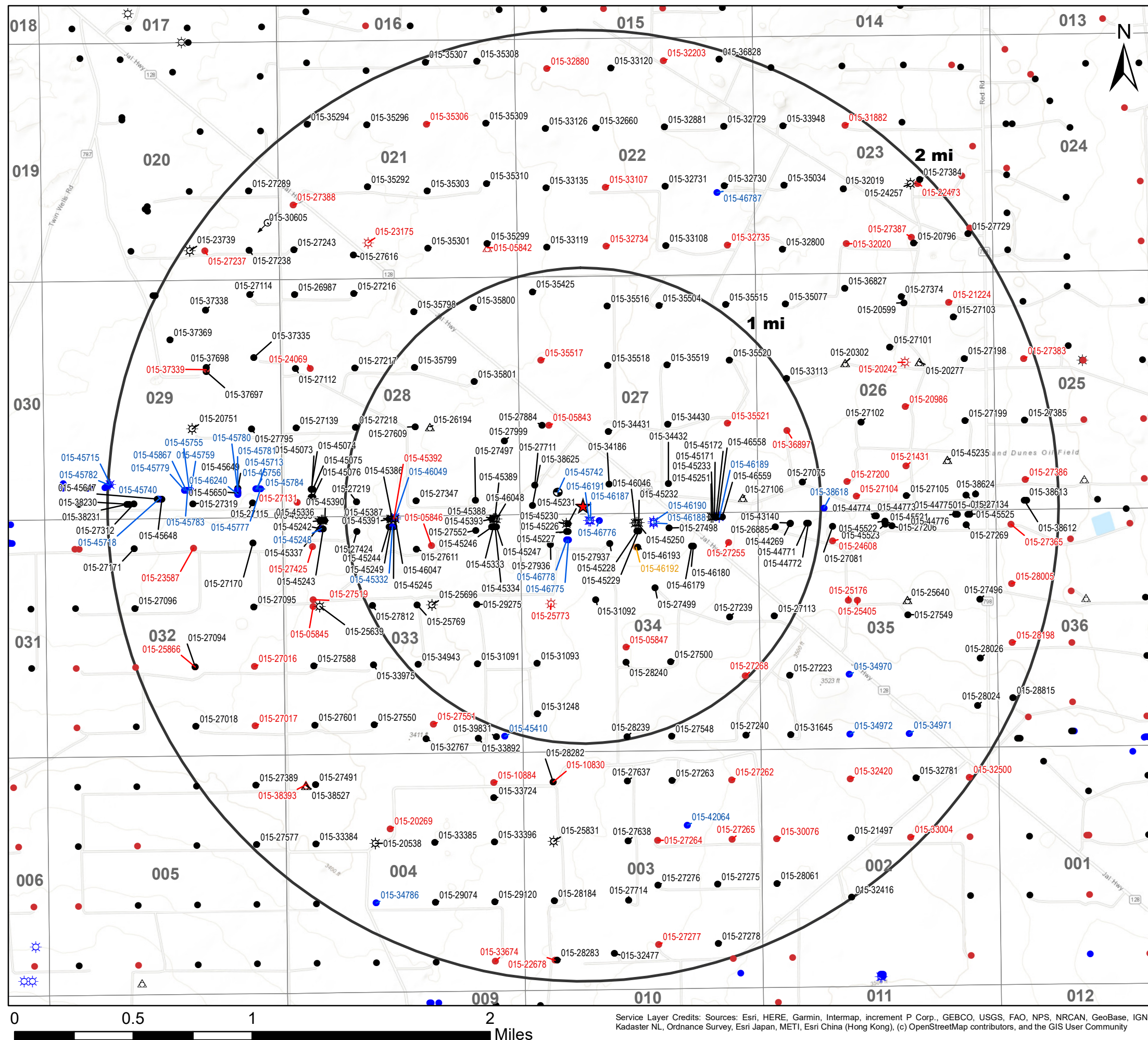
SIZE

A

SCALE

NTS

WELL BORE DATA SHEET



Legend

- ★ Elizabeth Federal SWD #2
- Miscellaneous (1)
- ☀ Gas, Active (24)
- ☀ Gas, New (12)
- ☀ Gas, Plugged (3)
- 📍 Injection, Active (1)
- Oil, Active (298)
- Oil, New (59)
- Oil, Plugged (108)
- Oil, Temporarily Abandoned (1)
- △ Salt Water Injection, Active (10)
- △ Salt Water Injection, Plugged (2)

Source Info: NMOCD O&G Wells updated 3/8/2021
(<http://www.emnrd.state.nm.us/OCD/ocdgis.html>)

O&G Wells Area of Review

Elizabeth Federal SWD #2 Eddy County, New Mexico

Proj Mgr:
Dan Arthur

March 25, 2021

Mapped by:
Ben Bockelmann



AOR Tabulation for Elizabeth Federal SWD #2 Continued (Top of Injection Interval: 16,425)									
Well Name	API#	Well Type	Operatore	Spud Date	Location (Sec., Tn., Rng.)	Total Vertical Depth (feet)	Pool Code	Penetrate Inj. Zone	Additional Drilled or Proposed Well
PLATINUM MDP1 34 3 FEDERAL COM #007H	30-015-45250	G	OXY USA INC	11/9/2018	C-34-23S-31E	10282	[13367] COTTON DRAW, BONE SPRING; [98220] PURPLE SAGE, WOLFCAMP (GAS)	No	No
PLATINUM MDP1 34 3 FEDERAL COM #011H	30-015-46776	O	OXY USA INC	Not Drilled	C-34-23S-31E	Proposed (9349)	[13367] COTTON DRAW, BONE SPRING	No	Yes
PLATINUM MDP1 34 3 FEDERAL COM #013H	30-015-46179	O	OXY USA INC	1/3/2020	B-34-23S-31E	9416	[13367] COTTON DRAW, BONE SPRING	No	Yes
PLATINUM MDP1 34 3 FEDERAL COM #014H	30-015-46180	O	OXY USA INC	1/4/2020	B-34-23S-31E	9513	[13367] COTTON DRAW, BONE SPRING	No	Yes
PLATINUM MDP1 34 3 FEDERAL COM #021H	30-015-46778	O	OXY USA INC	Not Drilled	D-34-23S-31E	Proposed (8843)	[13367] COTTON DRAW, BONE SPRING	No	Yes
PLATINUM MDP1 34 3 FEDERAL COM #022H	30-015-46775	O	OXY USA INC	Not Drilled	D-34-23S-31E	Proposed (8854)	[13367] COTTON DRAW, BONE SPRING	No	Yes
PLATINUM MDP1 34 3 FEDERAL COM #023H	30-015-46192	O	OXY USA INC	12/31/2019	C-34-23S-31E	9493	[13367] COTTON DRAW, BONE SPRING	No	Yes
PLATINUM MDP1 34 3 FEDERAL COM #024H	30-015-46193	O	OXY USA INC	1/1/2020	C-34-23S-31E	8901	[13367] COTTON DRAW, BONE SPRING	No	Yes
PLATINUM MDP1 34 3 FEDERAL COM #025H	30-015-46558	O	OXY USA INC	1/15/2020	A-34-23S-31E	8829	[13367] COTTON DRAW, BONE SPRING	No	Yes
PLATINUM MDP1 34 3 FEDERAL COM #026H	30-015-46559	O	OXY USA INC	1/14/2020	A-34-23S-31E	8935	[13367] COTTON DRAW, BONE SPRING	No	Yes
PLATINUM MDP1 34 3 FEDERAL COM #041H	30-015-46191	G	OXY USA INC	Not Drilled	C-34-23S-31E	Proposed (12675)	[98220] PURPLE SAGE, WOLFCAMP (GAS)	No	Yes
PLATINUM MDP1 34 3 FEDERAL COM #042H	30-015-46187	G	OXY USA INC	Not Drilled	C-34-23S-31E	Proposed (12665)	[98220] PURPLE SAGE, WOLFCAMP (GAS)	No	Yes
PLATINUM MDP1 34 3 FEDERAL COM #043H	30-015-46188	G	OXY USA INC	Not Drilled	B-34-23S-31E	Proposed (12643)	[98220] PURPLE SAGE, WOLFCAMP (GAS)	No	Yes
PLATINUM MDP1 34 3 FEDERAL COM #044H	30-015-46190	G	OXY USA INC	Not Drilled	B-34-23S-31E	Proposed (12612)	[98220] PURPLE SAGE, WOLFCAMP (GAS)	No	Yes
PLATINUM MDP1 34 3 FEDERAL COM #045H	30-015-46189	G	OXY USA INC	Not Drilled	A-34-23S-31E	Proposed (12649)	[98220] PURPLE SAGE, WOLFCAMP (GAS)	No	Yes
PLATINUM MDP1 34 3 FEDERAL COM #171H	30-015-45230	G	OXY USA INC	5/31/2019	D-34-23S-31E	11780	[98220] PURPLE SAGE, WOLFCAMP (GAS); [98236] WC-015 G-08 S233135D, WOLFCAMP	No	No
PLATINUM MDP1 34 3 FEDERAL COM #172H	30-015-45231	O	OXY USA INC	5/30/2019	D-34-23S-31E	11247	[13367] COTTON DRAW, BONE SPRING; [98220] PURPLE SAGE, WOLFCAMP (GAS)	No	No
PLATINUM MDP1 34 3 FEDERAL COM #174H	30-015-45232	G	OXY USA INC	6/4/2019	C-34-23S-31E	11805	[98220] PURPLE SAGE, WOLFCAMP (GAS); [98236] WC-015 G-08 S233135D, WOLFCAMP	No	No
PLATINUM MDP1 34 3 FEDERAL COM #175H	30-015-45251	G	OXY USA INC	5/29/2019	A-34-23S-31E	11638	[98220] PURPLE SAGE, WOLFCAMP (GAS); [98236] WC-015 G-08 S233135D, WOLFCAMP	No	No
PLATINUM MDP1 34 3 FEDERAL COM #176H	30-015-45233	G	OXY USA INC	5/28/2019	A-34-23S-31E	11808	[98220] PURPLE SAGE, WOLFCAMP (GAS); [98236] WC-015 G-08 S233135D, WOLFCAMP	No	No
PLATINUM MDP1 34 3 FEDERAL COM #177H	30-015-46046	G	OXY USA INC	6/9/2019	C-34-23S-31E	11642	[98220] PURPLE SAGE, WOLFCAMP (GAS); [98236] WC-015 G-08 S233135D, WOLFCAMP	No	Yes
PURE GOLD D #018	30-015-27999	O	OXY USA INC	8/24/1994	I-28-23S-31E	8180	[53815] SAND DUNES, DELAWARE, WEST	No	No
Pure Gold D Fed #010	30-015-35799	O	OXY USA INC	7/29/2009	G-28-23S-31E	8109	[53815] SAND DUNES, DELAWARE, WEST	No	No
Pure Gold D Fed #013	30-015-35800	O	OXY USA INC	9/2/2009	A-28-23S-31E	8120	[53815] SAND DUNES, DELAWARE, WEST	No	No
Pure Gold D Fed #014	30-015-35801	O	OXY USA INC	7/1/2009	H-28-23S-31E	8300	[53815] SAND DUNES, DELAWARE, WEST	No	No
PURE GOLD D FEDERAL #008	30-015-27219	O	OXY USA INC	2/10/1993	N-28-23S-31E	8130	[53815] SAND DUNES, DELAWARE, WEST	No	No
PURE GOLD D FEDERAL #011	30-015-27609	O	OXY USA INC	3/16/1994	28-23S-31E	8120	[53815] SAND DUNES, DELAWARE, WEST	No	No
PURE GOLD D FEDERAL #012	30-015-27347	O	OXY USA INC	3/22/1993	O-28-23S-31E	8134	[53815] SAND DUNES, DELAWARE, WEST	No	No
PURE GOLD D FEDERAL #016	30-015-27497	O	OXY USA INC	7/2/1993	P-28-23S-31E	8162	[53815] SAND DUNES, DELAWARE, WEST	No	No
SAND DUNES 28 FEDERAL #001	30-015-26194	S	OXY USA INC	10/17/1989	J-28-23S-31E	15057	[96100] SWD, DELAWARE	No	No

AOR Tabulation for Elizabeth Federal SWD #2 Continued (Top of Injection Interval: 16,425)									
Well Name	API#	Well Type	Operatore	Spud Date	Location (Sec., Tn., Rng.)	Total Vertical Depth (feet)	Pool Code	Penetrate Inj. Zone	Additional Drilled or Proposed Well
STERLING SILVER 33 FEDERAL #005	30-015-27424	O	OXY USA INC	6/1/1993	33-23S-31E	8134	[53815] SAND DUNES, DELAWARE, WEST	No	No
STERLING SILVER 33 FEDERAL #006	30-015-27812	O	OXY USA INC	9/1/1994	33-23S-31E	8170	[53815] SAND DUNES, DELAWARE, WEST	No	No
STERLING SILVER 33 FEDERAL #011	30-015-27611	O	OXY USA INC	8/29/1993	B-33-23S-31E	8115	[53815] SAND DUNES, DELAWARE, WEST	No	No
STERLING SILVER 33 FEDERAL #012	30-015-34943	O	OXY USA INC	7/9/2006	J-33-23S-31E	8180	[53815] SAND DUNES, DELAWARE, WEST	No	No
STERLING SILVER 33 FEDERAL #014	30-015-27552	O	OXY USA INC	9/18/1993	A-33-23S-31E	8176	[53815] SAND DUNES, DELAWARE, WEST	No	No
STERLING SILVER 33 FEDERAL #015	30-015-29275	O	OXY USA INC	12/10/1996	H-33-23S-31E	8200	[53815] SAND DUNES, DELAWARE, WEST	No	No
STERLING SILVER 33 FEDERAL #016	30-015-31091	O	OXY USA INC	5/24/2000	I-33-23S-31E	8200	[53815] SAND DUNES, DELAWARE, WEST	No	No
STERLING SILVER 34 FEDERAL #001	30-015-25773	Plugged	OXY USA INC	8/12/1987	E-34-23S-31E	Plugged (15220)	[84720] SAND DUNES, MORROW, WEST (GAS)	No	No
STERLING SILVER 34 FEDERAL #002	30-015-27936	O	OXY USA INC	7/24/1994	34-23S-31E	8225	[33745] INGLE WELLS, DELAWARE	No	No
STERLING SILVER 34 FEDERAL #003	30-015-27937	O	OXY USA INC	7/8/1994	C-34-23S-31E	8245	[33745] INGLE WELLS, DELAWARE	No	No
STERLING SILVER 34 FEDERAL #004	30-015-31092	O	OXY USA INC	3/8/2001	F-34-23S-31E	8300	[33745] INGLE WELLS, DELAWARE	No	No
STERLING SILVER 34 FEDERAL #005	30-015-28240	O	OXY USA INC	1/21/1995	K-34-23S-31E	8290	[33745] INGLE WELLS, DELAWARE	No	No
STERLING SILVER 34 FEDERAL #006	30-015-28239	O	OXY USA INC	12/5/1994	N-34-23S-31E	8310	[33745] INGLE WELLS, DELAWARE	No	No
STERLING SILVER 34 FEDERAL #007	30-015-31248	O	OXY USA INC	12/17/2000	M-34-23S-31E	8290	[33745] INGLE WELLS, DELAWARE	No	No
STERLING SILVER 34 FEDERAL #008	30-015-31093	O	OXY USA INC	5/8/2000	L-34-23S-31E	8270	[33745] INGLE WELLS, DELAWARE	No	No
STERLING SILVER MDP1 33 4 FEDERAL COM #003H	30-015-45391	O	OXY USA INC	11/12/2018	C-33-23S-31E	9938	[33740] INGLE WELLS, BONE SPRING	No	No
STERLING SILVER MDP1 33 4 FEDERAL COM #004H	30-015-45392	Plugged	OXY USA INC	11/15/2018	C-33-23S-31E	Plugged (9988)	[33740] INGLE WELLS, BONE SPRING	No	No
STERLING SILVER MDP1 33 4 FEDERAL COM #005H	30-015-45393	O	OXY USA INC	11/3/2018	A-33-23S-31E	9940	[33740] INGLE WELLS, BONE SPRING	No	No
STERLING SILVER MDP1 33 4 FEDERAL COM #006H	30-015-45386	G	OXY USA INC	11/13/2018	C-33-23S-31E	10272	[33740] INGLE WELLS, BONE SPRING; [98220] PURPLE SAGE, WOLFCAMP (GAS)	No	No
STERLING SILVER MDP1 33 4 FEDERAL COM #007H	30-015-45389	G	OXY USA INC	11/4/2018	A-33-23S-31E	10228	[33740] INGLE WELLS, BONE SPRING; [98220] PURPLE SAGE, WOLFCAMP (GAS)	No	No
STERLING SILVER MDP1 33 4 FEDERAL COM #008H	30-015-45387	G	OXY USA INC	1/28/2019	C-33-23S-31E	11570	[33740] INGLE WELLS, BONE SPRING; [98220] PURPLE SAGE, WOLFCAMP (GAS); [98236] WC-015 G-08 S233135D, WOLFCAMP	No	No
STERLING SILVER MDP1 33 4 FEDERAL COM #175H	30-015-45388	G	OXY USA INC	7/6/2019	A-33-23S-31E	11631	[98220] PURPLE SAGE, WOLFCAMP (GAS); [98236] WC-015 G-08 S233135D, WOLFCAMP	No	No
STERLING SILVER MDP1 33 4 FEDERAL COM #177H	30-015-46047	G	OXY USA INC	6/12/2019	C-33-23S-31E	11747	[98220] PURPLE SAGE, WOLFCAMP (GAS); [98236] WC-015 G-08 S233135D, WOLFCAMP	No	Yes
STERLING SILVER MDP1 33 4 FEDERAL COM #178H	30-015-46048	G	OXY USA INC	7/7/2019	A-33-23S-31E	10779	[33740] INGLE WELLS, BONE SPRING; [98220] PURPLE SAGE, WOLFCAMP (GAS); [98236] WC-015 G-08 S233135D, WOLFCAMP	No	Yes
STERLING SILVER MDP1 33 4 FEDERAL COM #179H	30-015-46049	G	OXY USA INC	Not Drilled	C-33-23S-31E	Proposed (11585)	[98220] PURPLE SAGE, WOLFCAMP (GAS); [98236] WC-015 G-08 S233135D, WOLFCAMP	No	Yes
TRIPLE S 33 FEDERAL #001	30-015-25769	O	OXY USA INC	7/19/1987	G-33-23S-31E	9655	[33740] INGLE WELLS, BONE SPRING; [53815] SAND DUNES, DELAWARE, WEST	No	No
PRE-ONGARD WELL #001 (Marland Oil Co.)	30-015-05847	Plugged	PRE-ONGARD WELL OPERATOR	Unknown*	K-34-23S-31E	Plugged (Unknown*)	Unknown*	No	No
PRE-ONGARD WELL #001 (Patoil Corp.)	30-015-05843	Plugged	PRE-ONGARD WELL OPERATOR	Unknown*	L-27-23S-31E	Plugged (4386)	Wildcat	No	No
PRE-ONGARD WELL #003 (Patoil Corp.)	30-015-05846	Plugged	PRE-ONGARD WELL OPERATOR	Unknown*	B-33-23S-31E	Plugged (4358)	Wildcat	No	No
Notes: No wells within the 1-mile AOR penetrate the injection interval.									
* Data not available from the OCD Database									