STATE OF NEW MEXICO
DEPARTMENT OF ENERGY, MINERALS AND NATURAL RESOURCES
OIL CONSERVATION DIVISION

APPLICATION OF NGL WATER SOLUTIONS PERMIAN, LLC FOR APPROVAL OF SALT WATER DISPOSAL WELL IN LEA COUNTY, NEW MEXICO

Case No. 20896
[Original Case No. 16507]

Table of Contents

Exhibit 1

Application and C-108 Documents

STATE OF NEW MEXICO
DEPARTMENT OF ENERGY, MINERALS AND NATURAL RESOURCES
OIL CONSERVATION DIVISION

APPLICATION OF NGL WATER SOLUTIONS PERMIAN, LLC FOR APPROVAL OF SALT WATER DISPOSAL WELL IN LEA COUNTY, NEW MEXICO

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[Original Case No. 16507]

AMENDED APPLICATION

NGL Water Solutions Permian, LLC ("NGL"), OGRID No. 372338, through its undersigned attorneys, hereby makes this application to the Oil Conservation Division pursuant to the provisions of NMSA 1978, Section 70-2-12, for an order approving drilling of a salt water disposal well in Lea County, New Mexico. In support of this application, NGL states as follows:

1. NGL originally submitted its application proposing to drill the Moab SWD #1 in October of 2018. The original application was assigned OCD Case No. 16507.

2. NGL is providing this amended application to update the proposed location for drilling the well.

3. NGL proposes to drill the Moab SWD #1 well at a surface location 892 feet from the North line and 150 feet from the West line of Section 25, Township 24 South, Range 33 East, NMPM, Lea County, New Mexico for the purpose of operating a salt water disposal well.

4. NGL is proposing this change in location to accommodate the operations of an offset oil and gas operator.

5. A revised plat, revised map of the area of review, and a revised list of wells and operators within the one-mile area of review are attached hereto as Exhibit A. These materials were provided to the Division by letter dated June 3, 2019.

6. NGL seeks authority to inject salt water into the Devonian-Silurian formation at a depth of 16,900' to 18,600'. A revised C-108 form and supporting documents reflecting the changes to the injection interval are included as Exhibit B.

7. Apart from the change in location of the well and the change to the depth of the injection interval, NGL makes no further changes to the application currently on file with the Division in Case No. 16507, a copy of which is attached hereto as Exhibit C.

8. The granting of this application will avoid the drilling of unnecessary wells, will prevent waste, and will protect correlative rights.

9. Case No. 16507 is currently set on the October 17, 2019 continuance docket.

10. NGL requests that this amended application be consolidated with, and relate back to, the original application and pleadings in Case No. 16507, and that the cases be heard on the November 14, 2019 hearing docket.

WHEREFORE, NGL requests that this application be set for hearing before an Examiner of the Oil Conservation Division on November 14, 2019; and that after notice and hearing, the Division enter its order approving this application.

Respectfully submitted,

ABADIE & SCHILL, P.C.

By: /s/ Lara Katz

Lara Katz
Darin C. Savage
214 McKenzie Street
Santa Fe, New Mexico 87501
(970) 385-4401
lara@abadieschill.com
darin@abadieschill.com

Attorneys for NGL Water Solutions Permian, LLC

CASE NO. _____ [Original Case No. 16507]: Amended Application of NGL Water Solutions Permian, LLC for approval of salt water disposal well in Lea County, New Mexico. Applicant seeks an order approving disposal into the Silurian-Devonian formation through the Moab SWD #1 well at a surface location 892 feet from the North line and 150 feet from the West line of Section 25, Township 24 South, Range 33 East, NMPM, Lea County, New Mexico for the purpose of operating a salt water disposal well. NGL seeks authority to inject salt water into the Silurian-Devonian formation at a depth of 16,900' – 18,600'. NGL further seeks approval of the use of 7 inch tubing inside the surface and intermediate casings and 5½ inch tubing inside the liner and requests that the Division approve a maximum daily injection rate for the well of 50,000 bbls per day. Said location is approximately 22 miles west of Jal, New Mexico.

LONQUIST & CO. LLC
PETROLEUM ENGINEERS | ENERGY ADVISORS
AUSTIN · HOUSTON · WICHITA · DENVER · CALGARY

June 3, 2019

New Mexico Energy, Minerals, and Natural Resources Department
Oil Conservation Division District IV
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
(505) 476-3440

RE: MOAB SWD NO. 1 AUTHORIZATION TO INJECT
UPDATED 1-MILE AOR and NOTICE PARTY DETERMINATION
NGL WATER SOLUTIONS PERMIAN, LLC

Dear Mr. Goetze:

The proposed Moab SWD No. 1 well location has been relocated from Unit N, Section 24-T24S-R33E to Unit D, Section 25-T24S-R33E to accommodate the operations of an offset oil and gas operator. The new location is shown in the attached C-102.

The 1-Mile AOR evaluated for offset wellbores penetrating the injection formation and to determine notice parties as part of the C-108 Application has been updated for the new location. The revised maps and list are attached. Relocation of the proposed wellbore did not result in any material changes in the AOR.

Any questions can be directed towards NGL Water Solutions Permian, LLC's agent Lonquist & Co., LLC.

Regards,

John A. Moltz
Petroleum Engineer
Lonquist & Co., LLC

(720) 221-8654
john.moltz@lonquist.com

EXHIBIT
A
4

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate District Office

☑ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
	97869	SWD; Devonian-Silurian

[4] Property Code	[5] Property Name	[6] Well Number
	MOAB SWD	1

[7] OGRID No.	[8] Operator Name	[9] Elevation
372338	NGL WATER SOLUTIONS PERMIAN, LLC	3572.00'±

[10] Surface Location

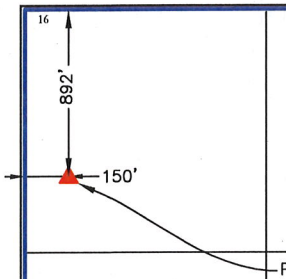
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	25	24 S	33 E	N/A	892'	NORTH	150'	WEST	LEA

[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



[17] OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature — Date: 6/3/2019

John Moltz
Printed Name

john.moltz@lonquist.com
E-mail Address

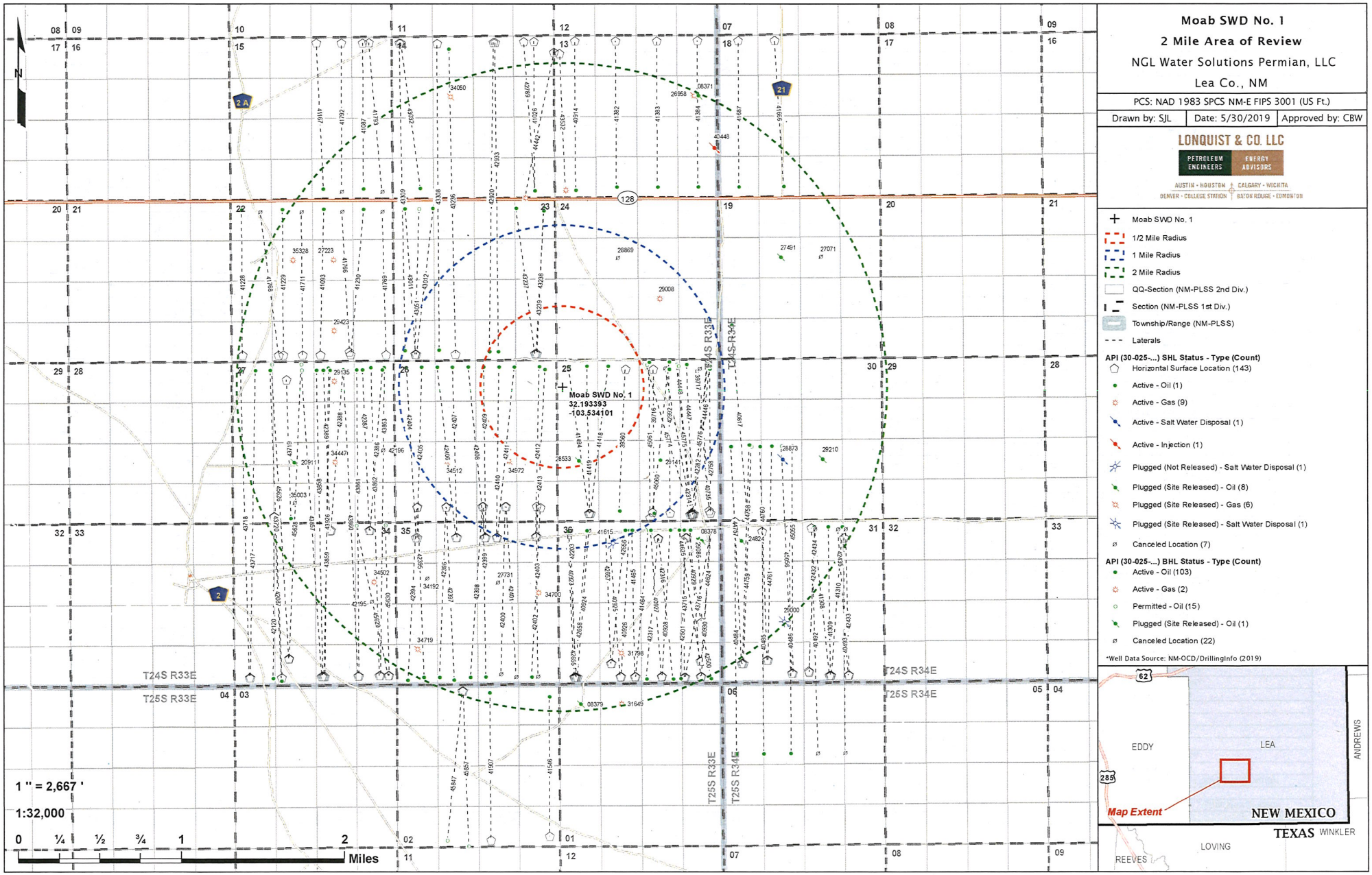
[18] SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

05/22/19
Date of Survey

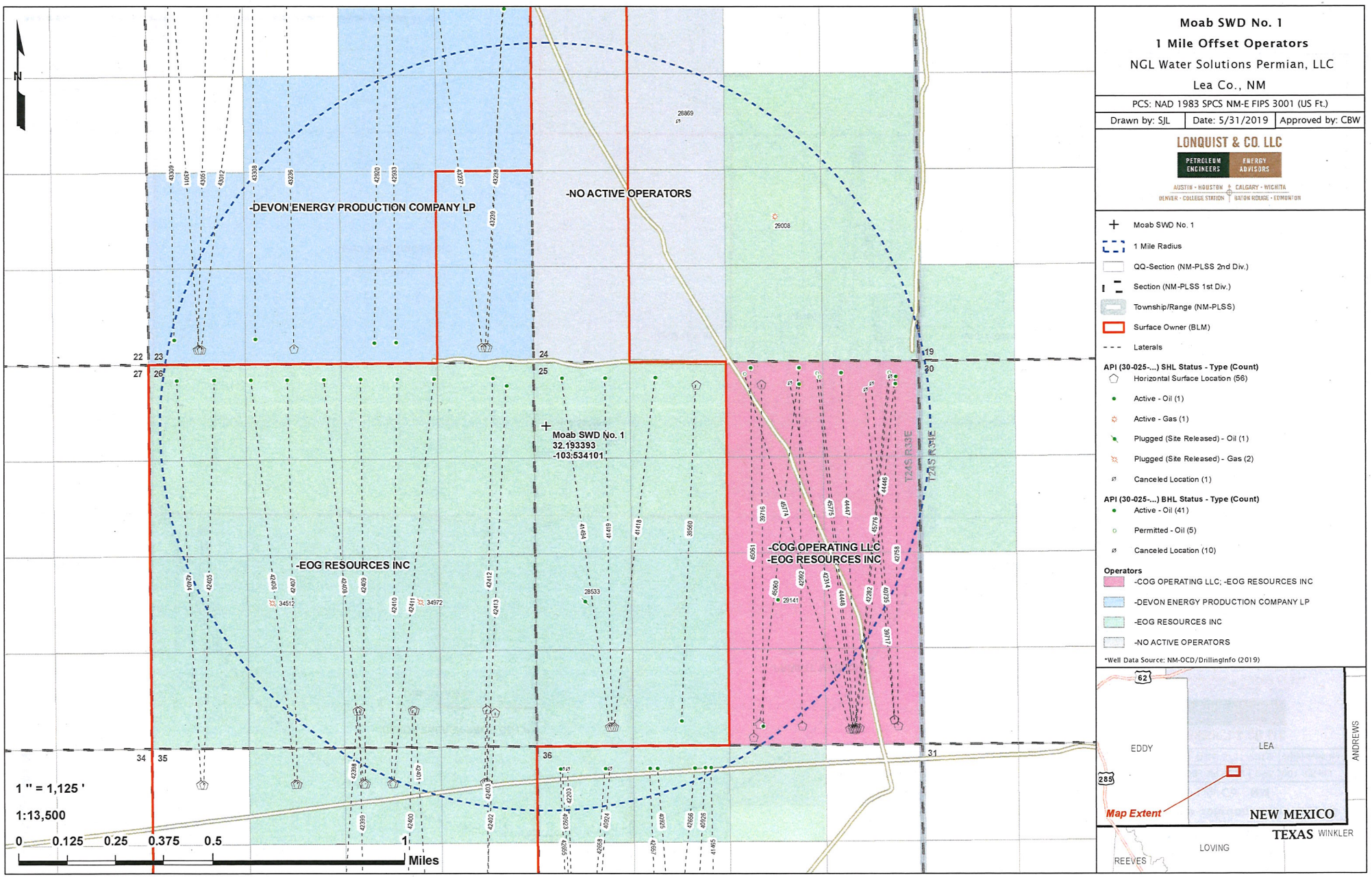
Signature and Seal of Professional Surveyor: Billy W. Barr Jr. NEW MEXICO 25114 PROFESSIONAL SURVEYOR

25114
Certificate Number


Moab SWD No. 1
2 Mile Area of Review
NGL Water Solutions Permian, LLC
Lea Co., NM
PCS: NAD 1983 SPCS NM-E FIPS 3001 (US Ft.)
Drawn by: SJL
Date: 5/30/2019
Approved by: CBW
LONQUIST & CO. LLC
PETROLEUM ENGINEERS
ENERGY ADVISORS
AUSTIN · HOUSTON · CALGARY · WICHITA
DENVER · COLLEGE STATION · BATON ROUGE · EDMONTON
Moab SWD No. 1
1/2 Mile Radius
1 Mile Radius
2 Mile Radius
QQ-Section (NM-PLSS 2nd Div.)
Section (NM-PLSS 1st Div.)
Township/Range (NM-PLSS)
Laterals
API (30-025-...) SHL Status - Type (Count)
Horizontal Surface Location (143)
Active - Oil (1)
Active - Gas (9)
Active - Salt Water Disposal (1)
Active - Injection (1)
Plugged (Not Released) - Salt Water Disposal (1)
Plugged (Site Released) - Oil (8)
Plugged (Site Released) - Gas (6)
Plugged (Site Released) - Salt Water Disposal (1)
Canceled Location (7)
API (30-025-...) BHL Status - Type (Count)
Active - Oil (103)
Active - Gas (2)
Permitted - Oil (15)
Plugged (Site Released) - Oil (1)
Canceled Location (22)
*Well Data Source: NM-OCD/DrillingInfo (2019)
Moab SWD No. 1
32.193393
-103.534101
T24S R33E
T25S R33E
T24S R34E
T25S R34E
1 " = 2,667 '
1:32,000
0 ¼ ½ ¾ 1 2 Miles
EDDY
LEA
ANDREWS
Map Extent
NEW MEXICO
TEXAS
WINKLER
LOVING
REEVES

Moab SWD No. 1
1 Mile Area of Review List

API (30-025-...)	WELL NAME	WELL TYPE	STATUS	OPERATOR	TVD (FT.)	LATITUDE (NAD83 DD)	LONGITUDE (NAD83 DD)	DATE DRILLED	FIELD
28533	MADERA RIDGE 25 FEDERAL #001	O	P	EOG RESOURCES INC	15750	32.1867676000	-103.532424900	9/8/1986	[82950] PITCHFORK RANCH, WOLFCAMP, W (GAS); [96434] RED HILLS, BONE SPRING, NORTH
28869	PRE-ONGARD WELL #001	O	C	PRE-ONGARD WELL OPERATOR	0	32.2049075781	-103.528132144	-	
29008	MADERA RIDGE 24 #001	G	A	EOG RESOURCES INC	15600	32.2012711000	-103.523864700	11/7/1984	[82927] PITCHFORK RANCH, ATOKA, WEST (GAS); [96434] RED HILLS, BONE SPRING, NORTH
29141	RED RAIDER BKS STATE #001	O	A	COG OPERATING LLC	15360	32.1867561000	-103.523864700	3/29/1985	[96434] RED HILLS, BONE SPRING, NORTH
34512	TRISTE DRAW 26 FEDERAL #001	G	P	EOG RESOURCES INC	13868	32.1867790000	-103.546302800	11/8/1998	[79335] JOHNSON RANCH, WOLFCAMP (GAS)
34972	TRISTE DRAW 26 FEDERAL #002	G	P	EOG RESOURCES INC	13850	32.1867752000	-103.539733900	3/27/2000	[96838] DRY AND ABANDONED
39560	FALCON 25 FEDERAL #001	O	A	EOG RESOURCES INC	9444	32.1949272000	-103.527412400	11/30/2009	[96434] RED HILLS, BONE SPRING, NORTH
39716	RED RAIDER BKS STATE #002H	O	A	COG OPERATING LLC	9455	32.1949234000	-103.524513200	4/1/2010	[96434] RED HILLS, BONE SPRING, NORTH
39717	RED RAIDER BKS STATE #003C	O	C	EOG Y RESOURCES, INC.	0	32.1822172425	-103.518738673	-	[96434] RED HILLS, BONE SPRING, NORTH
40735	RED RAIDER BKS STATE #003C	O	C	EOG Y RESOURCES, INC.	0	32.1822089824	-103.518728927	-	[96434] RED HILLS, BONE SPRING, NORTH
40923	DRAGON 36 STATE #001C	O	C	EOG RESOURCES INC	0	32.1674080000	-103.532775900	-	[97900] RED HILLS, UPPER BONE SPRING SHALE
40924	DRAGON 36 STATE #002C	O	C	EOG RESOURCES INC	0	32.1674080000	-103.532676700	-	[97900] RED HILLS, UPPER BONE SPRING SHALE
40925	DRAGON 36 STATE #003H	O	A	EOG RESOURCES INC	9464	32.1674042000	-103.528198200	12/24/2014	[97900] RED HILLS, UPPER BONE SPRING SHALE
40926	DRAGON 36 STATE #004H	O	A	EOG RESOURCES INC	9460	32.1674042000	-103.528099100	1/8/2015	[97900] RED HILLS, UPPER BONE SPRING SHALE
41418	FALCON 25 FEDERAL #002H	O	A	EOG RESOURCES INC	9730	32.1820107000	-103.531158400	2/18/2014	[96434] RED HILLS, BONE SPRING, NORTH
41419	HAWK 25 FEDERAL #002H	O	A	EOG RESOURCES INC	9453	32.1820107000	-103.531257600	1/30/2014	[96434] RED HILLS, BONE SPRING, NORTH
41465	DRAGON 36 STATE #009H	O	A	EOG RESOURCES INC	9460	32.1674042000	-103.526702900	12/11/2014	[97900] RED HILLS, UPPER BONE SPRING SHALE
41494	HAWK 25 FEDERAL #001H	O	A	EOG RESOURCES INC	9453	32.1820107000	-103.531356800	1/8/2014	[96434] RED HILLS, BONE SPRING, NORTH
42203	DRAGON 36 STATE #012C	O	C	EOG RESOURCES INC	0	32.1674041146	-103.532862018	-	[97900] RED HILLS, UPPER BONE SPRING SHALE
42282	RED RAIDER BKS STATE #003C	O	C	COG OPERATING LLC	0	32.1818540219	-103.520466616	-	[96434] RED HILLS, BONE SPRING, NORTH; [98092] WC-025 G-09 S243336I, UPPER WOLFCAMP
42314	RED RAIDER BKS STATE #004C	O	C	EOG Y RESOURCES, INC.	0	32.1818541562	-103.520564060	-	[96434] RED HILLS, BONE SPRING, NORTH; [98092] WC-025 G-09 S243336I, UPPER WOLFCAMP
42398	HAWK 26 FEDERAL #705H	O	A	EOG RESOURCES INC	12539	32.1827019230	-103.542560130	12/12/2017	[97900] RED HILLS, UPPER BONE SPRING SHALE; [98092] WC-025 G-09 S243336I, UPPER WOLFCAMP
42399	HAWK 26 FEDERAL #706H	O	A	EOG RESOURCES INC	12546	32.1827144000	-103.542448600	12/17/2017	[97900] RED HILLS, UPPER BONE SPRING SHALE; [98092] WC-025 G-09 S243336I, UPPER WOLFCAMP
42400	HAWK 26 FEDERAL #007C	O	C	EOG RESOURCES INC	0	32.1827006640	-103.540107790	-	[97900] RED HILLS, UPPER BONE SPRING SHALE; [98092] WC-025 G-09 S243336I, UPPER WOLFCAMP
42401	HAWK 26 FEDERAL #708C	O	C	EOG RESOURCES INC	0	32.1827006140	-103.540010350	-	[97900] RED HILLS, UPPER BONE SPRING SHALE; [98092] WC-025 G-09 S243336I, UPPER WOLFCAMP
42402	HAWK 26 FEDERAL #709H	O	A	EOG RESOURCES INC	12569	32.1825854000	-103.536417800	6/11/2016	[97900] RED HILLS, UPPER BONE SPRING SHALE; [98092] WC-025 G-09 S243336I, UPPER WOLFCAMP
42403	HAWK 26 FEDERAL #710C	O	C	EOG RESOURCES INC	0	32.1827095600	-103.536795600	-	[97900] RED HILLS, UPPER BONE SPRING SHALE; [98092] WC-025 G-09 S243336I, UPPER WOLFCAMP
42404	HAWK 35 FEDERAL #701H	O	A	EOG RESOURCES INC	12431	32.1799723000	-103.549543900	12/18/2017	[97900] RED HILLS, UPPER BONE SPRING SHALE; [98092] WC-025 G-09 S243336I, UPPER WOLFCAMP
42405	HAWK 35 FEDERAL #702H	O	A	EOG RESOURCES INC	12474	32.1799566440	-103.549413330	12/20/2017	[97900] RED HILLS, UPPER BONE SPRING SHALE; [98092] WC-025 G-09 S243336I, UPPER WOLFCAMP
42406	HAWK 35 FEDERAL #003H	O	A	EOG RESOURCES INC	9428	32.1799545070	-103.545340810	6/5/2017	[97900] RED HILLS, UPPER BONE SPRING SHALE
42407	HAWK 35 FEDERAL #004H	O	A	EOG RESOURCES INC	9420	32.1799544540	-103.545243380	6/8/2017	[97900] RED HILLS, UPPER BONE SPRING SHALE
42408	HAWK 35 FEDERAL #005H	O	A	EOG RESOURCES INC	9430	32.1799529020	-103.542317540	5/18/2017	[97900] RED HILLS, UPPER BONE SPRING SHALE
42409	HAWK 35 FEDERAL #006H	O	A	EOG RESOURCES INC	9434	32.1799528520	-103.542220120	5/21/2017	[97900] RED HILLS, UPPER BONE SPRING SHALE
42410	HAWK 35 FEDERAL #007H	O	A	EOG RESOURCES INC	9440	32.1799522640	-103.541073700	3/23/2015	[97900] RED HILLS, UPPER BONE SPRING SHALE
42411	HAWK 35 FEDERAL #008H	O	A	EOG RESOURCES INC	9457	32.1799522140	-103.540976280	4/7/2015	[97900] RED HILLS, UPPER BONE SPRING SHALE
42412	HAWK 35 FEDERAL #009H	O	A	EOG RESOURCES INC	9424	32.1799611700	-103.536917700	3/20/2015	[97900] RED HILLS, UPPER BONE SPRING SHALE
42413	HAWK 35 FEDERAL #010H	O	A	EOG RESOURCES INC	9434	32.1799619700	-103.536820200	4/4/2015	[97900] RED HILLS, UPPER BONE SPRING SHALE
42655	DRAGON 36 STATE #706H	O	A	EOG RESOURCES INC	15200	32.1674203600	-103.533017400	7/12/2015	[98092] WC-025 G-09 S243336I, UPPER WOLFCAMP
42656	DRAGON 36 STATE #703H	O	A	EOG RESOURCES INC	12475	32.1686001320	-103.529075761	7/26/2015	[98092] WC-025 G-09 S243336I, UPPER WOLFCAMP
42657	DRAGON 36 STATE #704H	O	A	EOG RESOURCES INC	12500	32.1686001980	-103.529173190	8/19/2015	[98092] WC-025 G-09 S243336I, UPPER WOLFCAMP
42658	DRAGON 36 STATE #705H	O	A	EOG RESOURCES INC	12495	32.1674199600	-103.532921300	8/7/2015	[98092] WC-025 G-09 S243336I, UPPER WOLFCAMP
42758	RED RAIDER BKS STATE #005H	O	A	COG OPERATING LLC	9331	32.1819897000	-103.518572000	9/21/2015	[96434] RED HILLS, BONE SPRING, NORTH
42920	BOOMSLANG 14 23 FEDERAL #001H	O	A	DEVON ENERGY PRODUCTION COMPANY, LP	9517	32.2243153000	-103.541004700	7/28/2017	[96434] RED HILLS, BONE SPRING, NORTH
42933	BOOMSLANG 14 23 FEDERAL #004H	O	A	DEVON ENERGY PRODUCTION COMPANY, LP	11274	32.2243151000	-103.540843200	7/5/2017	[96434] RED HILLS, BONE SPRING, NORTH
42992	RED RAIDER BKS STATE #004H	O	A	COG OPERATING LLC	9342	32.1819974000	-103.522837700	1/21/2017	[96434] RED HILLS, BONE SPRING, NORTH
43011	BLUE KRAIT 23 14 FEDERAL #001H	O	A	DEVON ENERGY PRODUCTION COMPANY, LP	9370	32.1963998000	-103.549444800	7/8/2017	[96434] RED HILLS, BONE SPRING, NORTH
43012	BLUE KRAIT 23 14 FEDERAL #005H	O	A	DEVON ENERGY PRODUCTION COMPANY, LP	9398	32.1963998000	-103.549347800	7/12/2017	[96434] RED HILLS, BONE SPRING, NORTH
43051	BLUE KRAIT 23 FEDERAL #010H	O	N	DEVON ENERGY PRODUCTION COMPANY, LP	0	32.1963998000	-103.549509500	-	[96434] RED HILLS, BONE SPRING, NORTH
43236	BLUE KRAIT 23 14 FEDERAL #002H	O	A	DEVON ENERGY PRODUCTION COMPANY, LP	11851	32.1963990000	-103.545243200	6/18/2017	[96434] RED HILLS, BONE SPRING, NORTH
43237	BLUE KRAIT 23 FEDERAL #003H	O	A	DEVON ENERGY PRODUCTION COMPANY, LP	9399	32.1963982000	-103.536861200	7/1/2017	[96434] RED HILLS, BONE SPRING, NORTH
43238	BLUE KRAIT 23 FEDERAL #004H	O	A	DEVON ENERGY PRODUCTION COMPANY, LP	11130	32.1963981000	-103.536622800	6/21/2017	[96434] RED HILLS, BONE SPRING, NORTH
43239	BLUE KRAIT 23 FEDERAL #006H	O	A	DEVON ENERGY PRODUCTION COMPANY, LP	9408	32.1963980000	-103.536719800	6/26/2017	[96434] RED HILLS, BONE SPRING, NORTH
43308	BOOMSLANG 14 23 FEDERAL #002H	O	A	DEVON ENERGY PRODUCTION COMPANY, LP	9485	32.2242469000	-103.546969700	8/18/2017	[96434] RED HILLS, BONE SPRING, NORTH
43309	BOOMSLANG 14 23 FEDERAL #003H	O	A	DEVON ENERGY PRODUCTION COMPANY, LP	11451	32.2243125000	-103.550904200	8/7/2017	[96434] RED HILLS, BONE SPRING, NORTH
44446	RED RAIDER 25 STATE #701H	O	A	EOG RESOURCES INC	12316	32.1819145000	-103.520302900	3/14/2018	[98092] WC-025 G-09 S243336I, UPPER WOLFCAMP
44447	RED RAIDER 25 STATE #702H	O	A	EOG RESOURCES INC	12373	32.1819053000	-103.520409100	3/11/2018	[98092] WC-025 G-09 S243336I, UPPER WOLFCAMP
44448	RED RAIDER 25 STATE #703H	O	N	EOG RESOURCES INC	0	32.1818960000	-103.520515000	-	[98092] WC-025 G-09 S243336I, UPPER WOLFCAMP
45060	RED RAIDER 25 STATE #704H	O	A	EOG RESOURCES INC	12359	32.1820840000	-103.524718400	10/15/2018	[98092] WC-025 G-09 S243336I, UPPER WOLFCAMP
45061	RED RAIDER 25 STATE #705H	O	A	EOG RESOURCES INC	12431	32.1815893000	-103.524982100	10/13/2018	[98092] WC-025 G-09 S243336I, UPPER WOLFCAMP
45774	RED RAIDER 25 STATE #501H	O	N	EOG RESOURCES INC	0	32.1818771000	-103.520727900	-	[96434] RED HILLS, BONE SPRING, NORTH
45775	RED RAIDER 25 STATE #502H	O	N	EOG RESOURCES INC	0	32.1818865000	-103.520621800	-	[96434] RED HILLS, BONE SPRING, NORTH
45776	RED RAIDER 25 STATE #503H	O	N	EOG RESOURCES INC	0	32.1818959000	-103.520515700	-	[96434] RED HILLS, BONE SPRING, NORTH



Moab SWD No. 1

1 Mile Offset Operators

NGL Water Solutions Permian, LLC

Lea Co., NM

PCS: NAD 1983 SPCS NM-E FIPS 3001 (US Ft.)

Drawn by: SJL	Date: 5/31/2019	Approved by: CBW

LONQUIST & CO. LLC
PETROLEUM ENGINEERS | ENERGY ADVISORS
AUSTIN · HOUSTON · CALGARY · WICHITA
DENVER · COLLEGE STATION · BATON ROUGE · EDMONTON

- Moab SWD No. 1
- 1 Mile Radius
- QQ-Section (NM-PLSS 2nd Div.)
- Section (NM-PLSS 1st Div.)
- Township/Range (NM-PLSS)
- Surface Owner (BLM)
- Laterals

API (30-025-...) SHL Status - Type (Count)

- Horizontal Surface Location (56)
- Active - Oil (1)
- Active - Gas (1)
- Plugged (Site Released) - Oil (1)
- Plugged (Site Released) - Gas (2)
- Canceled Location (1)

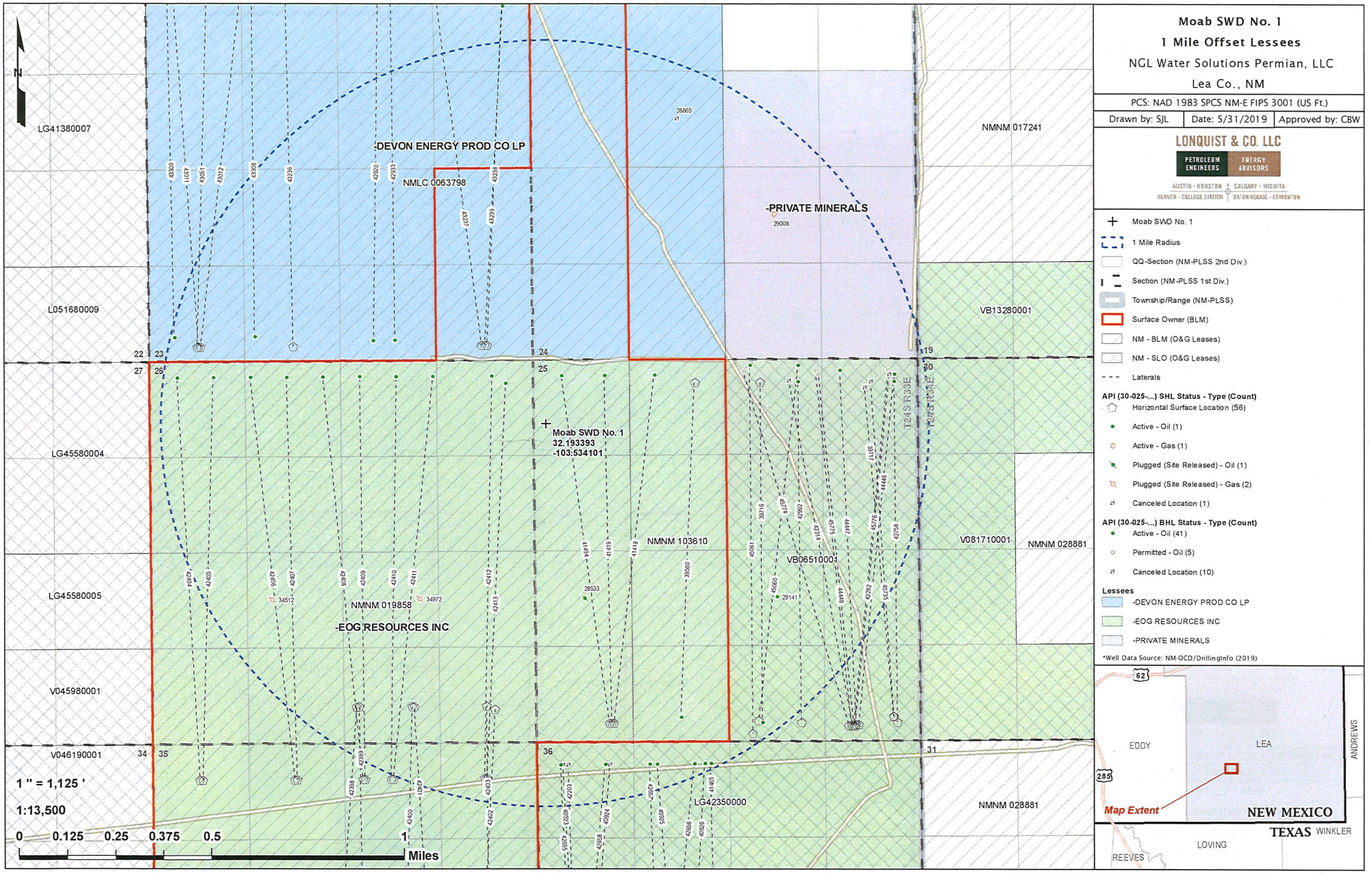
API (30-025-...) BHL Status - Type (Count)

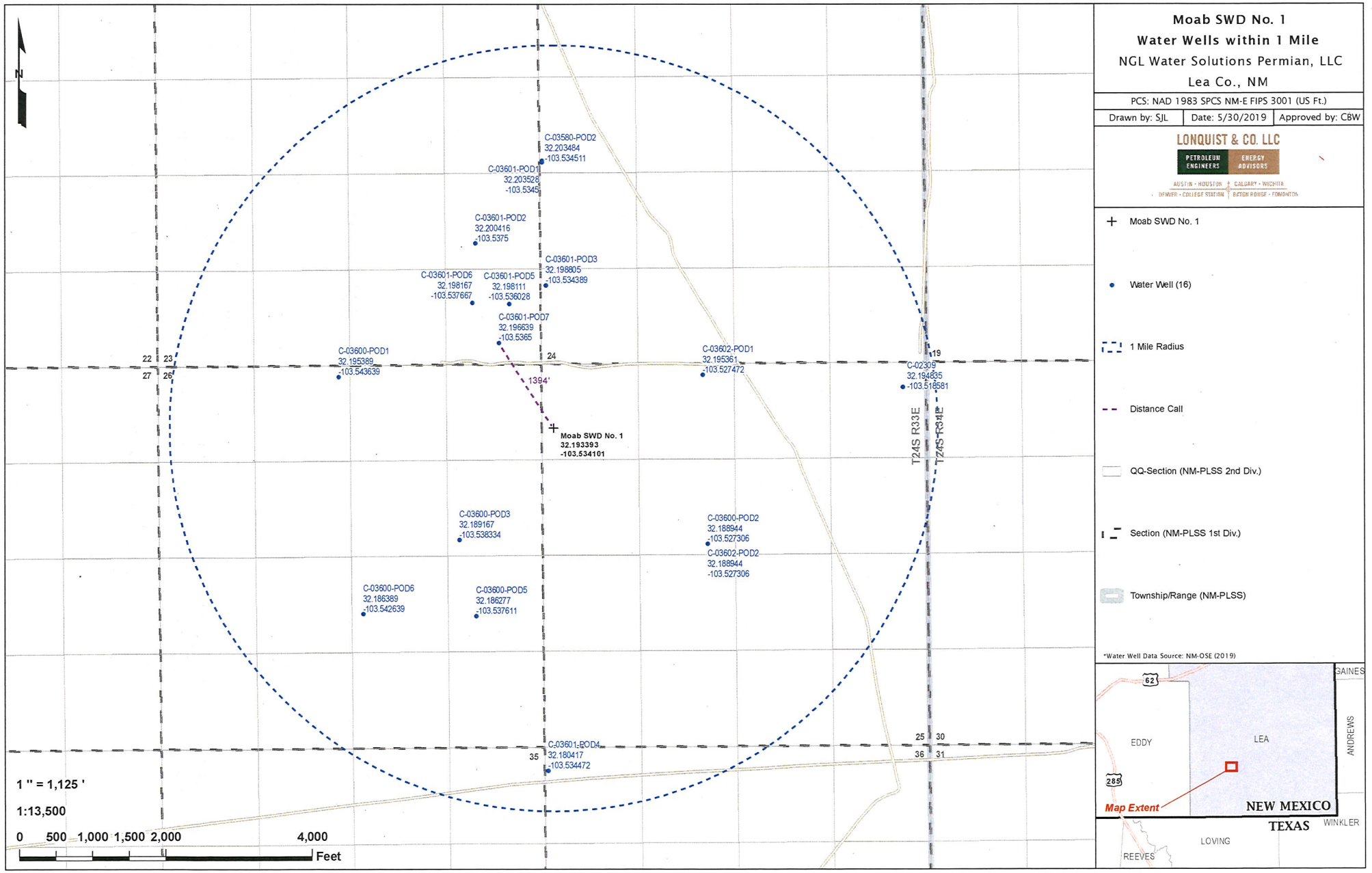
- Active - Oil (41)
- Permitted - Oil (5)
- Canceled Location (10)

Operators

- -COG OPERATING LLC; -EOG RESOURCES INC
- -DEVON ENERGY PRODUCTION COMPANY LP
- -EOG RESOURCES INC
- -NO ACTIVE OPERATORS

*Well Data Source: NM-OCD/DrillingInfo (2019)


Moab SWD No. 1
1 Mile Offset Lessees
NGL Water Solutions Permian, LLC
Lea Co., NM
PCS: NAD 1983 SPCS NM-E FIPS 3001 (US Ft.)
Drawn by: SJL
Date: 5/31/2019
Approved by: CBW
LONQUIST & CO. LLC
PETROLEUM ENGINEERS
ENERGY ADVISORS
AUSTIN · HOUSTON · CALGARY · WICHITA
DENVER · COLLEGE STATION · BATON ROUGE · EDMONTON
-DEVON ENERGY PROD CO LP
NMLC 0063798
-PRIVATE MINERALS
NMNM 017241
VB13280001
V081710001
NMNM 028881
NMNM 103610
VB06510001
NMNM 019858
-EOG RESOURCES INC
LG41380007
L051680009
LG45580004
LG45580005
V045980001
V046190001
LG42350000
Moab SWD No. 1
32.193393
-103.534101
T21S R33E
1 " = 1,125 '
1:13,500
0 0.125 0.25 0.375 0.5 1 Miles
Moab SWD No. 1
1 Mile Radius
QQ-Section (NM-PLSS 2nd Div.)
Section (NM-PLSS 1st Div.)
Township/Range (NM-PLSS)
Surface Owner (BLM)
NM - BLM (O&G Leases)
NM - SLO (O&G Leases)
Laterals
API (30-025-...) SHL Status - Type (Count)
Horizontal Surface Location (56)
Active - Oil (1)
Active - Gas (1)
Plugged (Site Released) - Oil (1)
Plugged (Site Released) - Gas (2)
Canceled Location (1)
API (30-025-...) BHL Status - Type (Count)
Active - Oil (41)
Permitted - Oil (5)
Canceled Location (10)
Lessees
-DEVON ENERGY PROD CO LP
-EOG RESOURCES INC
-PRIVATE MINERALS
*Well Data Source: NM-OCD/DrillingInfo (2019)
62
285
EDDY
LEA
ANDREWS
Map Extent
NEW MEXICO
TEXAS
WINKLER
LOVING
REEVES



Moab SWD No. 1
Water Wells within 1 Mile
NGL Water Solutions Permian, LLC
Lea Co., NM

PCS: NAD 1983 SPCS NM-E FIPS 3001 (US Ft.)

Drawn by: SJL	Date: 5/30/2019	Approved by: CBW

LONQUIST & CO. LLC
PETROLEUM ENGINEERS | ENERGY ADVISORS
AUSTIN · HOUSTON · CALGARY · WICHITA
DENVER · COLLEGE STATION | BATON ROUGE · EDMONTON

- Moab SWD No. 1
- Water Well (16)
- 1 Mile Radius
- Distance Call
- QQ-Section (NM-PLSS 2nd Div.)
- Section (NM-PLSS 1st Div.)
- Township/Range (NM-PLSS)

*Water Well Data Source: NM-OSE (2019)

XII. Affirmative Statement of Examination of Geologic and Engineering Data

Based on the available engineering and geologic data we find no evidence of open faults or any other hydrologic connection between the disposal zone (in the proposed **Moab SWD #1**) and any underground sources of drinking water.

NAME: Todd Reynolds TITLE: Consulting Geologist/Geophysicist

SIGNATURE: _____ DATE: 11-13-19

Revised March 23, 2017

RECEIVED:	REVIEWER:	TYPE:	APP NO:

ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
- Geological & Engineering Bureau -
1220 South St. Francis Drive, Santa Fe, NM 87505

ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Applicant: NGL WATER SOLUTIONS PERMIAN LLC **OGRID Number:** 372338
Well Name: MOAB SWD #1 **API:** TBD
Pool: SWD; SILURIAN-DEVONIAN **Pool Code:** 96101

SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED BELOW

1) **TYPE OF APPLICATION:** Check those which apply for [A]
A. Location – Spacing Unit – Simultaneous Dedication
☐ NSL ☐ NSP (PROJECT AREA) ☐ NSP (PRORATION UNIT) ☐ SD

B. Check one only for [I] or [II]
[I] Commingling – Storage – Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM
[II] Injection – Disposal – Pressure Increase – Enhanced Oil Recovery
☐ WFX ☐ PMX ☒ SWD ☐ IPI ☐ EOR ☐ PPR

FOR OCD ONLY
☐ Notice Complete
☐ Application Content Complete

2) **NOTIFICATION REQUIRED TO:** Check those which apply.
A. ☒ Offset operators or lease holders
B. ☐ Royalty, overriding royalty owners, revenue owners
C. ☒ Application requires published notice
D. ☒ Notification and/or concurrent approval by SLO
E. ☒ Notification and/or concurrent approval by BLM
F. ☒ Surface owner
G. ☐ For all of the above, proof of notification or publication is attached, and/or,
H. ☐ No notice required

3) **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

CHRIS WEYAND
Print or Type Name

09/25/2018
Date

512-600-1764
Phone Number

Signature

CHRIS@LONQUIST.COM
e-mail Address

EXHIBIT
tabbies
B

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL
RESOURCES DEPARTMENT

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

FORM C-108
Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

I. PURPOSE: _____Secondary Recovery _____Pressure Maintenance ___X___Disposal _____Storage
Application qualifies for administrative approval? ___X___Yes _____No

II. OPERATOR: NGL WATER SOLUTIONS PERMIAN, LLC

ADDRESS: 1509 W WALL ST // STE 306 // MIDLAND, TX 79701

CONTACT PARTY: SARAH JORDAN PHONE: (432) 685-0005 x1989

III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.

IV. Is this an expansion of an existing project? _____Yes ___X___No
If yes, give the Division order number authorizing the project: _____

V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.

VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.

VII. Attach data on the proposed operation, including:

1. Proposed average and maximum daily rate and volume of fluids to be injected;
2. Whether the system is open or closed;
3. Proposed average and maximum injection pressure;
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).

*VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.

IX. Describe the proposed stimulation program, if any.

*X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).

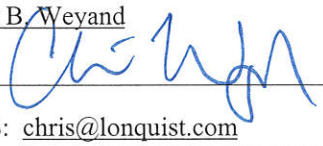
*XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.

XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.

XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

NAME: Christopher B. Weyand TITLE: Consulting Engineer

SIGNATURE:  DATE: 11/13/2019

E-MAIL ADDRESS: chris@lonquist.com

* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: _____

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office

Side 2

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

(1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.

(2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.

(3) A description of the tubing to be used including its size, lining material, and setting depth.

(4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

(1) The name of the injection formation and, if applicable, the field or pool name.

(2) The injection interval and whether it is perforated or open-hole.

(3) State if the well was drilled for injection or, if not, the original purpose of the well.

(4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.

(5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

(1) The name, address, phone number, and contact party for the applicant;

(2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;

(3) The formation name and depth with expected maximum injection rates and pressures; and,

(4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

Side 1

INJECTION WELL DATA SHEET

OPERATOR: NGL WATER SOLUTIONS PERMIAN, LLC

WELL NAME & NUMBER: MOAB SWD #1

WELL LOCATION: 892' FNL & 150' FWL | D | 25 | 24S | 33E

FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 24.000"

Casing Size: 20.000"

Cemented with: 1,602 sx. *or* _____ ft^3

Top of Cement: Surface

Method Determined: Circulation

1st Intermediate Casing

Hole Size: 17.500"

Casing Size: 13.375"

Cemented with: 3,113 sx. *or* _____ ft^3

Top of Cement: Surface

Method Determined: Circulation

2nd Intermediate Casing

Hole Size: 12.250"

Casing Size: 9.625"

Cemented with: 3,268 sx. *or* _____ ft^3

Top of Cement: Surface

Method Determined: Circulation

Production Liner

Hole Size: 8.500"

Casing Size: 7.625"

Cemented with: 350 sx.

or _____ ft^3

Top of Cement: 11,900'

Method Determined: Calculation

Total Depth: 18,600'

Injection Interval

16,900 feet to 18,600 feet

(Open Hole)

INJECTION WELL DATA SHEET

Tubing Size: 7", 26 lb/ft, P-110, TCPC from 0'- 11,800' and 5.500", 17 lb/ft, P-110 TCPC from 11,800' - 16,850'
Lining Material: Duoline

Type of Packer: 7-5/8" x 5-1/2" TCPC Permanent Packer with High Temp Elastomer and Full Inconel

Packer Setting Depth: 16,850'

Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

1. Is this a new well drilled for injection? ___X___Yes _____No

   If no, for what purpose was the well originally drilled? N/A

2. Name of the Injection Formation: Devonian, Silurian, Fusselman and Montoya (Top 100')

3. Name of Field or Pool (if applicable): SWD; Devonian-Silurian

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. No, new drill.

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:
   Bone Spring: 9,205'
   Wolfcamp: 12,187'
   Atoka: 13,984'
   Morrow: 14,470'

Moab SWD **Lea County NM** **TD: 18600**

Energy Partners LP

Vertical Injection - Devonian, Silurian, Fusselman, Montoya **GL/KB: 3572**

Directions to Site - Travel 23.2 miles from Jal NM along NM 128W. Turn South at Vaca Lane onto locations. Lat/Long - 32° 11' 36.22", - 103° 32' 2.76"

Geologic Tops (MD ft)	Section	Casing	Logging	Cement (HOLD)	Injection String
Rustler 1248 **Surface TD - 1260**	**Surface** Drill 24" 0' - 1260 Set and Cement 20" Casing	1260' of 20" 94# J55 BTC Centralizers - bottom 2 joints and every 3rd jt thereafter, Cement basket 5th jt from surface	No Logs	Lead - 685sx of HES Extenda Cem, 13.7ppg, 4.5hrs TT Tail - 917sx of Halcem 3hr TT 25% Excess 1000psi CSD after 10hrs	
Salado 1,814' Delaware 5278 **1st Int TD - 5225**	**1st Intermediate** Drill 3965' of 17-1/2" Hole 1260' - 5225' Set and Cement 13-3/8" Casing	5M A Section Casing Bowl 5225' of 13-3/8" 68# L80 BTC Centralizers - bottom jt, every 3rd joint in open hole and 2 jt inside the surface casing	Mudlogger on site by 1250'	Lead - 1659 sx of Neocem 12.9ppg, 5hr TT Tail - 1454sx of Halcem, 14.8ppg 15% Excess 1000psi CSD after 10 hrs Cement to Surface	11,800' of 7" P110 26# TCPC
ECP DV Tool - 5200 Cherry Canyon - 6311 Brushy Canyon - 7972 **DV Tool - 9000** Bone Spring - 9205 **3rd Int Liner Top - 11,900** Wolfcamp - 12187 **2nd Int TD - 12,400**	**2nd Intermediate** Drill 7175' of 12-1/4" Hole 5225' - 12400' Set 9-5/8" Intermediate Casing and Cement in 3 Stages	10M B Section 12400' of 9-5/8" 53.5# HCL80 BTC **Special Drift to 8.535"** **Externally Coat 4820' Between DV Tools** DV tool at at 9000' ECP DV Tool 15' Inside Previous Casing Centralizers - bottom jt, 100' aside of DV tool, every 3rd joint in open hole and 5 within the surface casing	MWD GR Triple combo + CBL of 13-3/8" Casing	**Stage 3: 0% Excess** Lead 773sx Neocem 12.9 ppg Tail 397sx Halcem 14.8ppg 1000psi CSD after 10 hrs Cement to Surface **Stage 2: 25% Excess** Lead 779sx Neocem 12.9 ppg Tail 295sx Halcem 14.8ppg 1000psi CSD after 10 hrs **Stage 1: 25% Excess** Lead 553sx Neocem 12.9 ppg Tail 471sx Halcem 14.8ppg. 1000psi CSD after 10hrs	5050' of 5-1/2" P110 17# TCPC Duoline Internally Coated Injection Tubing
Strawn - 13788 Atoka - 13984 Morrow - 14470 Miss Lst - 16143 Woodford - 16796 Perm Packer - 16850 **3rd Int TD - 16900**	**3rd Intermediate** Drill 4000' of 8-1/2" Hole 12400' - 16400' Set 7-5/8" Liner and Cement in Single Stage	4500' of 7-5/8" 39# Q125 - **DTL (FJ4) FJ (Gas Tight) VersaFlex Packer Hanger** Centralizers on and 1 jt above shoe jt and then every 2nd jt.	MWD GR Triple combo, CBL of 9-5/8" Casing	Lead 90sx Neocem 12.9 ppg Tail 260sx Halcem 14.8ppg. 1000psi CSD after 10hrs 8hr TT 10% Excess 1000psi CSD after 10hrs	7-5/8" x 5-1/2" TCPC Permanent Packer with High Temp Elastomer and full Inconel 925 trim
Devonian - 17,015 **Fusselman - 17997** **Montoya - 18,500'** **TD - 18,600**	**Injection Interval** Drill 1700' of 6-1/2" hole 16900' - 18600'	Openhole completion	MWD GR Triple Combo with FMI, CBL of 7-5/8"	Displace with 3% KCl (or heavier brine if necessary)	

NGL Water Solutions Permian, LLC

Moab SWD No. 1

FORM C-108 Supplemental Information

III. Well Data

A. Wellbore Information

1.

Well information	
Lease Name	Moab SWD
Well No.	1
Location	S-25 T-24S R-33E
Footage Location	892’ FNL & 150’ FWL

2.

a. Wellbore Description

Casing Information				
Type	Surface	Intermediate	Production	Liner
OD	20”	13.375”	9.625”	7.625”
WT	0.438”	0.480”	0.545”	0.500”
ID	19.124”	12.415”	8.535”	6.625”
Drift ID	18.937”	12.259”	8.535”	6.500”
COD	21.00”	14.375”	10.625”	7.625”
Weight	94 lb/ft	68 lb/ft	53.5 lb/ft	39 lb/ft
Grade	J-55	L80	HCL-80	Q-125
Hole Size	24”	17.5"	12.25”	8.5"
Depth Set	1,260’	5,225’	12,400’	16,900’

b. Cementing Program

Cement Information				
Casing String	Surface	Intermediate	Production	Liner
Lead Cement	C	C	H,H,C	H
Lead Cement Volume	685	1,659	Stage 1: 553 sks Stage 2: 779 sks Stage 3: 773 sks	90
Tail Cement	C	C	H,H,C	H
Tail Cement Volume	917	1,454	Stage 1: 471 sks Stage 2: 295 sks Stage 3: 397 sks	260
Cement Excess	25%	15%	25%, 25%, 0%	10%
TOC	Surface	Surface	Surface	11,900’
Method	Circulate to Surface	Circulate to Surface	Circulate to Surface	Logged

3. Tubing Description

Tubing Information		
OD	7"	5.5”
WT	0.362”	0.304”
ID	6.276"	4.892”
Drift ID	7.875”	6.050”
COD	6.151”	4.767”
Weight	26 lb/ft	17 lb/ft
Grade	P-110 TCPC	P-110 TCPC
Depth Set	0’-11,800’	11,800’-16,850’

Tubing will be lined with Duoline.

4. Packer Description

7-5/8” x 5-1/2” TCPC Permanent Packer with High Temp Elastomer and Full Inconel

B. Completion Information

1. Injection Formation: Devonian, Silurian, Fusselman, Montoya (Top 100’)
2. Gross Injection Interval: 16,900’ – 18,600’

Completion Type: Open Hole

3. Drilled for injection.
4. See the attached wellbore schematic.
5. Oil and Gas Bearing Zones within area of well:

Formation	Depth
Bone Spring	9,205’
Wolfcamp	12,187’
Atoka	13,984’
Morrow	14,470’

VI. Area of Review

No wells within the area of review penetrate the proposed injection zone.

VII. Proposed Operation Data

1. Proposed Daily Rate of Fluids to be Injection:

   Average Volume: 40,000 BPD
   Maximum Volume: 50,000 BPD

2. Closed System

3. Anticipated Injection Pressure:

   Average Injection Pressure: 2,460 PSI (surface pressure)
   Maximum Injection Pressure: 3,380 PSI (surface pressure)

4. The injection fluid is to be locally produced water. Attached are produced water sample analyses taken from the closest wells that feature samples from the Atoka, Bone Spring, Delaware, and Wolfcamp formations. Water is expected to be predominantly sourced from the Bone Spring and Wolfcamp formations.

5. The disposal interval is non-productive. No water samples are available from the surrounding area.

VIII. Geological Data

The Devonian formation is a dolomitic ramp carbonate that occurs below the Woodford shale and above the Fusselman formation. Strata found in the Devonian formation include two major groups, the Wristen Buildups and the Thirtyone Deepwater Chert, with the Wristen being more abundant. The Wristen Groups is composed of mixed limestone and dolomites with mudstone to grainstone and boundstone textures. Porosity in the Wristen group is a result of both primary and secondary development. Present are moldic, vugular, karstic (including collapse breccia) features that allow for higher porosities and permeabilities. The Thirtyone Formation contains two end-member reservoir facies, skeletal packstones/grainstones and spiculitic chert, with most of the porosity and permeability found in the coarsely crystalline cherty dolomite. These particular characteristics allow for this formation to be a tremendous Salt Water Disposal horizon.

A. Injection Zone: Siluro-Devonian Formation

Formation	**Depth**
Rustler	1,248’
Salado	1,814’
Delaware	5,278’
Bone Spring	9,205’
Wolfcamp	12,187’
Strawn	13,788’
Atoka	13,984’
Morrow	14,470’
Mississippian Lime	16,431’
Woodford	16,796’
Devonian	17,015’
Fusselman	17,997’

B. Underground Sources of Drinking Water

Within 1-mile of the proposed Moab SWD #1 location, there are multiple water wells with depths ranging from 95 ft to 550 ft (average 360 ft) and water depths ranging from 81 ft to 575 ft (average 229 ft). These wells are generally producing from the Santa Rosa formation, but the upper Rustler formation may be another USDW, which will be protected.

IX. Proposed Stimulation Program

Stimulate with up to 50,000 gallons of acid.

X. Logging and Test Data on the Well

There are no logs or test data on the well. During the process of drilling and completion resistivity, gamma ray, and density logs will be run.

XI. Chemical Analysis of Fresh Water Wells

There are multiple water wells that exist within one mile of the well location, but none of the wells are active and available for sampling. A map and Water Right Summaries from the New Mexico Office of the State Engineer are attached for wells C-03600 POD 1,2,3 and C-03601-POD 1.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-101
Revised July 18, 2013

☒AMENDED REPORT

Location & Casing Program

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address	2. OGRID Number
NGL WATER SOLUTIONS PERMIAN, LLC 1509 W WALL ST, STE 306 MIDLAND, TX 79701	372338
	3. API Number TBD

4. Property Code	5. Property Name	6. Well No.
	MOAB SWD	1

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
D	25	24S	33E	N/A	892'	NORTH	150'	WEST	LEA

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
	-	-	-		-	-	-	-	-

9. Pool Information

Pool Name	Pool Code
SWD; Silurian-Devonian	96101

Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation
N	SWD	R	BLM	3,572'
16. Multiple	**17. Proposed Depth**	**18. Formation**	**19. Contractor**	**20. Spud Date**
N	18,600'	Siluro-Devonian	TBD	ASAP

Depth to Ground water	Distance from nearest fresh water well	Distance to nearest surface water
229'	718'	> 1 mile

☐ **We will be using a closed-loop system in lieu of lined pits**

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surface	24"	20"	94 lb/ft	1,200'	1,602	Surface
Intermediate	17.5"	13.375"	68 lb/ft	5,200'	3,113	Surface
Production	12.25"	9.625"	53.5 lb/ft	12,400'	3,268	Surface
Prod. Liner	8.5"	7.625"	39 lb/ft	16,900'	350	11,900'

Casing/Cement Program: Additional Comments

See attached schematic.

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Hydraulic/Blinds, Pipe	10,000 psi	8,000 psi	TBD – Schaffer/Cameron

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. **I further certify that I have complied with 19.15.14.9 (A) NMAC ☐ and/or 19.15.14.9 (B) NMAC ☒, if applicable.** Signature:		OIL CONSERVATION DIVISION	
		Approved By:	
Printed name: Christopher B. Weyand		Title:	
Title: Consulting Engineer		Approved Date:	Expiration Date:
E-mail Address: chris@lonquist.com			
Date: 11/13/2019	Phone: (512) 600-1764	Conditions of Approval Attached	

STATE OF NEW MEXICO
DEPARTMENT OF ENERGY, MINERALS AND NATURAL RESOURCES
OIL CONSERVATION DIVISION

APPLICATION OF NGL WATER SOLUTIONS PERMIAN, LLC TO APPROVE SALT WATER DISPOSAL WELL IN LEA COUNTY, NEW MEXICO.

CASE NO. 16507

APPLICATION

NGL Water Solutions Permian, LLC ("NGL"), OGRID No. 372338, through its undersigned attorneys, hereby makes this application to the Oil Conservation Division pursuant to the provisions of N.M. Stat. Ann. § 70-2-12, for an order approving drilling of a salt water disposal well in Lea County, New Mexico. In support of this application, NGL states as follows:

(1) NGL proposes to drill the Moab SWD #1 well at a surface location 255 feet from the South line and 1,538 feet from the West line of Section 24, Township 24 South, Range 33 East, NMPM, Lea County, New Mexico for the purpose of operating a salt water disposal well.

(2) NGL seeks authority to inject salt water into the Siluro-Devonian formation at a depth of 16,400' – 18,004'.

(3) NGL further seeks approval of the use of 7 inch tubing inside the surface and intermediate casings and 5 ½ inch tubing inside the liner and requests that the Division approve a maximum daily injection rate for the well of 50,000 bbls per day.

(4) NGL anticipates using an average pressure of 2,460 psi for this well, and it requests that a maximum pressure of 3,280 psi be approved for the well.

(5) A proposed C-108 for the subject well is attached hereto in Attachment A.

EXHIBIT
tabbies
C

(6) The granting of this application will avoid the drilling of unnecessary wells, will prevent waste, and will protect correlative rights.

WHEREFORE, NGL requests that this application be set for hearing before an Examiner of the Oil Conservation Division on November 1, 2018; and that after notice and hearing, the Division enter its order approving this application.

Respectfully submitted,

MODRALL, SPERLING, ROEHL, HARRIS
& SISK, P.A.

By: _____
Jennifer Bradfute
Deana Bennett
Post Office Box 2168
Bank of America Centre
500 Fourth Street NW, Suite 1000
Albuquerque, New Mexico 87103-2168
Telephone: 505.848.1800
Attorneys for Applicant

CASE NO. 16507: Application of NGL Water Solutions Permian, LLC for approval of salt water disposal well in Lea County, New Mexico. Applicant seeks an order approving disposal into the Siluro-Devonian formation through the Moab SWD #1 well at a surface location 255 feet from the South line and 1,538 feet from the West line of Section 24, Township 24 South, Range 33 East, NMPM, Lea County, New Mexico for the purpose of operating a salt water disposal well. The target injection interval is the Siluro-Devonian formation at a depth of 16,400' – 18,004'. NGL further seeks approval of the use of 7 inch tubing inside the surface and intermediate casings and 5 ½ inch tubing inside the liner and requests that the Division approve a maximum daily injection rate for the well of 50,000 bbls per day. Said area is located approximately 22 miles west of Jal, New Mexico.

Revised March 23, 2017

RECEIVED:	REVIEWER:	TYPE:	APP NO:

ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
- Geological & Engineering Bureau –
1220 South St. Francis Drive, Santa Fe, NM 87505

ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Applicant: NGL WATER SOLUTIONS PERMIAN LLC **OGRID Number:** 372338
Well Name: MOAB SWD #1 **API:** TBD
Pool: SWD; SILURIAN-DEVONIAN **Pool Code:** 96101

SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED BELOW

1) **TYPE OF APPLICATION:** Check those which apply for [A]
A. Location – Spacing Unit – Simultaneous Dedication
☐NSL ☐NSP(PROJECT AREA) ☐NSP(PRORATION UNIT) ☐SD

B. Check one only for [I] or [II]
[I] Commingling – Storage – Measurement
☐DHC ☐CTB ☐PLC ☐PC ☐OLS ☐OLM
[II] Injection – Disposal – Pressure Increase – Enhanced Oil Recovery
☐WFX ☐PMX ☒SWD ☐IPI ☐EOR ☐PPR

FOR OCD ONLY
☐ Notice Complete
☐ Application Content Complete

2) **NOTIFICATION REQUIRED TO:** Check those which apply.
A. ☒ Offset operators or lease holders
B. ☐ Royalty, overriding royalty owners, revenue owners
C. ☒ Application requires published notice
D. ☒ Notification and/or concurrent approval by SLO
E. ☒ Notification and/or concurrent approval by BLM
F. ☒ Surface owner
G. ☐ For all of the above, proof of notification or publication is attached, and/or,
H. ☐ No notice required

3) **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

CHRIS WEYAND
Print or Type Name

09/25/2018
Date

512-600-1764
Phone Number

Signature

CHRIS@LONQUIST.COM
e-mail Address

EXHIBIT
tabbies
A

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL
RESOURCES DEPARTMENT

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

FORM C-108
Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

I. PURPOSE: ____ Secondary Recovery ____ Pressure Maintenance __X__ Disposal ____ Storage
Application qualifies for administrative approval? __X__ Yes ____ No

II. OPERATOR: NGL WATER SOLUTIONS PERMIAN, LLC

ADDRESS: 1509 W WALL ST // STE 306 // MIDLAND, TX 79701

CONTACT PARTY: SARAH JORDAN PHONE: (432) 685-0005 x1989

III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.

IV. Is this an expansion of an existing project? ____ Yes __X__ No
If yes, give the Division order number authorizing the project: _____

V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.

VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.

VII. Attach data on the proposed operation, including:

1. Proposed average and maximum daily rate and volume of fluids to be injected;
2. Whether the system is open or closed;
3. Proposed average and maximum injection pressure;
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).

*VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.

IX. Describe the proposed stimulation program, if any.

*X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).

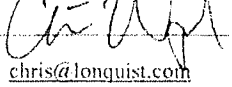
*XI Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.

XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.

XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

NAME: Christopher B. Wevand TITLE: Consulting Engineer

SIGNATURE:  DATE: 9/24/2018

E-MAIL ADDRESS: chris@lonquist.com

* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: _____

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office

Side 2

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

(1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.

(2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.

(3) A description of the tubing to be used including its size, lining material, and setting depth.

(4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

(1) The name of the injection formation and, if applicable, the field or pool name.

(2) The injection interval and whether it is perforated or open-hole.

(3) State if the well was drilled for injection or, if not, the original purpose of the well.

(4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.

(5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

(1) The name, address, phone number, and contact party for the applicant;

(2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;

(3) The formation name and depth with expected maximum injection rates and pressures; and,

(4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

Side 1

INJECTION WELL DATA SHEET

OPERATOR: NGL WATER SOLUTIONS PERMIAN, LLC

WELL NAME & NUMBER: MOAB SWD #1

WELL LOCATION: 255 FSL & 1,538' FWL (FOOTAGE LOCATION) | N (UNIT LETTER) | 24 (SECTION) | 24S (TOWNSHIP) | 33E (RANGE)

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 24.000" Casing Size: 20.000"

Cemented with: 1,602 sx. *or* _____ ft³

Top of Cement: Surface Method Determined: Circulation

1st Intermediate Casing

Hole Size: 17.500" Casing Size: 13.375"

Cemented with: 3,113 sx. *or* _____ ft³

Top of Cement: Surface Method Determined: Circulation

2nd Intermediate Casing

Hole Size: 12.250" Casing Size: 9.625"

Cemented with: 3,268 sx. *or* _____ ft³

Top of Cement: Surface Method Determined: Circulation

Production Liner

Hole Size: 8.500"

Casing Size: 7.625"

Cemented with: 318 sx.

or _____ ft³

Top of Cement: 11,900'

Method Determined: Calculation

Total Depth: 18,004'

Injection Interval

16,400 feet to 18,004 feet

(Open Hole)

Side 2

INJECTION WELL DATA SHEET

Tubing Size: 7", 26 lb/ft, P-110, TCPC from 0'- 11,800' and 5.500", 17 lb/ft, P-110 TCPC from 11,800' - 16,380'
Lining Material: Duoline

Type of Packer: 7-5/8" x 5-1/2" TCPC Permanent Packer with High Temp Elastomer and Full Inconel

Packer Setting Depth: 16,380'

Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

1. Is this a new well drilled for injection? ___X___ Yes _____ No

   If no, for what purpose was the well originally drilled? N/A

2. Name of the Injection Formation: Devonian, Silurian, Fusselman and Montova (Top 100')

3. Name of Field or Pool (if applicable): SWD; Silurian-Devonian

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. No, new drill.

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:
   Bone Spring: 9,205'
   Wolfcamp: 12,187'
   Atoka: 13,984'
   Morrow: 14,470'

NGL Water Solutions Permian, LLC

Moab SWD No. 1

FORM C-108 Supplemental Information

III. Well Data

A. Wellbore Information

1.

Well information	
Lease Name	Moab SWD
Well No.	1
Location	S-24 T-24S R-33E
Footage Location	255' FSL & 1,538' FWL

2.

a. Wellbore Description

Casing Information				
Type	Surface	Intermediate	Production	Liner
OD	20"	13.375"	9.625"	7.625"
WT	0.438"	0.480"	0.545"	0.500"
ID	19.124"	12.415"	8.535"	6.625"
Drift ID	18.937"	12.259"	8.535"	6.500"
COD	21.00"	14.375"	10.625"	7.625"
Weight	94 lb/ft	68 lb/ft	53.5 lb/ft	39 lb/ft
Grade	J-55	L80	HCL-80	Q-125
Hole Size	24"	17.5"	12.25"	8.5"
Depth Set	1,260'	5,225'	12,400'	16,400'

b. Cementing Program

Cement Information				
Casing String	Surface	Intermediate	Production	Liner
Lead Cement	C	C	H,H,C	H
Lead Cement Volume	685	1,659	Stage 1: 553 sks Stage 2: 779 sks Stage 3: 773 sks	81
Tail Cement	C	C	H,H,C	H
Tail Cement Volume	917	1,454	Stage 1: 471 sks Stage 2: 295 sks Stage 3: 397 sks	237
Cement Excess	25%	15%	25%, 25%, 0%	10%
TOC	Surface	Surface	Surface	11,900'
Method	Circulate to Surface	Circulate to Surface	Circulate to Surface	Logged

3. Tubing Description

Tubing Information		
OD	7"	5.5"
WT	0.362"	0.304"
ID	6.276"	4.892"
Drift ID	7.875"	6.050"
COD	6.151"	4.767"
Weight	26 lb/ft	17 lb/ft
Grade	P-110 TCPC	P-110 TCPC
Depth Set	0'-11,800'	11,800'-16,380'

Tubing will be lined with Duoline.

4. Packer Description

7-5/8" x 5-1/2" TCPC Permanent Packer with High Temp Elastomer and Full Inconel

B. Completion Information

1. Injection Formation: Devonian, Silurian, Fusselman, Montoya (Top 100')
2. Gross Injection Interval: 16,400' – 18,004'

   Completion Type: Open Hole
3. Drilled for injection.
4. See the attached wellbore schematic.
5. Oil and Gas Bearing Zones within area of well:

Formation	Depth
Bone Spring	9,205'
Wolfcamp	12,187'
Atoka	13,984'
Morrow	14,470'

VI. Area of Review

No wells within the area of review penetrate the proposed injection zone.

VII. Proposed Operation Data

1. Proposed Daily Rate of Fluids to be Injection:

   Average Volume: 40,000 BPD
   Maximum Volume: 50,000 BPD

2. Closed System

3. Anticipated Injection Pressure:

   Average Injection Pressure: 2,460 PSI (surface pressure)
   Maximum Injection Pressure: 3,280 PSI (surface pressure)

4. The injection fluid is to be locally produced water. Attached are produced water sample analyses taken from the closest wells that feature samples from the Atoka, Bone Spring, Delaware, and Wolfcamp formations. Water is expected to be predominantly sourced from the Bone Spring and Wolfcamp formations.

5. The disposal interval is non-productive. No water samples are available from the surrounding area.

VIII. Geological Data

The Devonian formation is a dolomitic ramp carbonate that occurs below the Woodford shale and above the Fusselman formation. Strata found in the Devonian formation include two major groups, the Wristen Buildups and the Thirtyone Deepwater Chert, with the Wristen being more abundant. The Wristen Groups is composed of mixed limestone and dolomites with mudstone to grainstone and boundstone textures. Porosity in the Wristen group is a result of both primary and secondary development. Present are moldic, vugular, karstic (including collapse breccia) features that allow for higher porosities and permeabilities. The Thirtyone Formation contains two end-member reservoir facies, skeletal packstones/grainstones and spiculitic chert, with most of the porosity and permeability found in the coarsely crystalline cherty dolomite. These particular characteristics allow for this formation to be a tremendous Salt Water Disposal horizon.

A. Injection Zone: Siluro-Devonian Formation

Formation	Depth
Rustler	1,248'
Salado	1,814'
Delaware	5,278'
Bone Spring	9,205'
Wolfcamp	12,187'
Strawn	13,788'
Atoka	13,984'
Morrow	14,470'
Mississippian Lime	15,760'
Woodford	16,165'
Devonian	16,380'

B. Underground Sources of Drinking Water

Within 1-mile of the proposed Moab SWD #1 location, there are multiple water wells with depths ranging from 95 ft to 550 ft (average 360 ft) and water depths ranging from 81 ft to 575 ft (average 229 ft). These wells are generally producing from the Santa Rosa formation, but the upper Rustler formation may be another USDW, which will be protected.

IX. Proposed Stimulation Program

Stimulate with up to 50,000 gallons of acid.

X. Logging and Test Data on the Well

There are no logs or test data on the well. During the process of drilling and completion resistivity, gamma ray, and density logs will be run.

XI. Chemical Analysis of Fresh Water Wells

There are multiple water wells that exist within one mile of the well location, but none of the wells are active and available for sampling. A map and Water Right Summaries from the New Mexico Office of the State Engineer are attached for wells C-03600 POD 1,2,3 and C-03601-POD 1.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone (575) 393-6161 Fax (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone (575) 748-1283 Fax (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone (505) 334-6178 Fax (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone (505) 476-3460 Fax (505) 476-3462

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-101
Revised July 18, 2013

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

[1] Operator Name and Address	[2] OGRID Number
NGL WATER SOLUTIONS PERMIAN, LLC 1509 W WALL ST, STE 306 MIDLAND, TX 79701	372338
	[3] API Number TBD

[4] Property Code	[5] Property Name	[6] Well No
	MOAB SWD	1

[7] Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
N	24	24S	33E	N/A	255'	SOUTH	1,538'	WEST	LEA

[8] Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
	-	-	-		-	-	-	-	-

[9] Pool Information

Pool Name	Pool Code
SWD; Silurian-Devonian	96101

Additional Well Information

[11] Work Type	[12] Well Type	[13] Cable/Rotary	[14] Lease Type	[15] Ground Level Elevation
N	SWD	R	Private	3,570'
[16] Multiple	**[17] Proposed Depth**	**[18] Formation**	**[19] Contractor**	**[20] Spud Date**
N	18,004'	Siluro-Devonian	TBD	ASAP

Depth to Ground water	Distance from nearest fresh water well	Distance to nearest surface water
229'	718'	> 1 mile

☐ We will be using a closed-loop system in lieu of lined pits

[21] Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surface	24"	20"	94 lb/ft	1,260'	1,602	Surface
Intermediate	17.5"	13.375"	68 lb/ft	5,225'	3,113	Surface
Production	12.25"	9.625"	53.5 lb/ft	12,400'	3,268	Surface
Prod. Liner	8.5"	7.625"	39 lb/ft	16,400'	318	11,900'
Tubing	N/A	7"	26 lb/ft	0' – 11,800'	N/A	N/A
Tubing	N/A	5.5"	17 lb/ft	11,800' – 16,380'	N/A	N/A

Casing/Cement Program: Additional Comments

See attached schematic.

[22] Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Hydraulic/Blinds, Pipe	10,000 psi	8,000 psi	TBD – Schaffer/Cameron

[23] I hereby certify that the information given above is true and complete to the best of my knowledge and belief. **I further certify that I have complied with 19.15.14.9 (A) NMAC ☐ and/or 19.15.14.9 (B) NMAC ☒ if applicable.** Signature:		OIL CONSERVATION DIVISION	
		Approved By:	
Printed name: Christopher B. Weyand		Title:	
Title: Consulting Engineer		Approved Date:	Expiration Date:
E-mail Address: chris@lonquist.com			
Date: 9/20/2018	Phone: (512) 600-1764	Conditions of Approval Attached	

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
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District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-10
Revised August 1
201
Submit one copy to appropriat
District Offic

☐ AMENDED REPOR

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
	96101	SWD; Silurian-Devonian

[4] Property Code	[5] Property Name	[6] Well Number
	MOAB SWD	1

[7] OGRID No.	[8] Operator Name	[9] Elevation
372338	NGL WATER SOLUTIONS	3570.00'±

[10] Surface Location

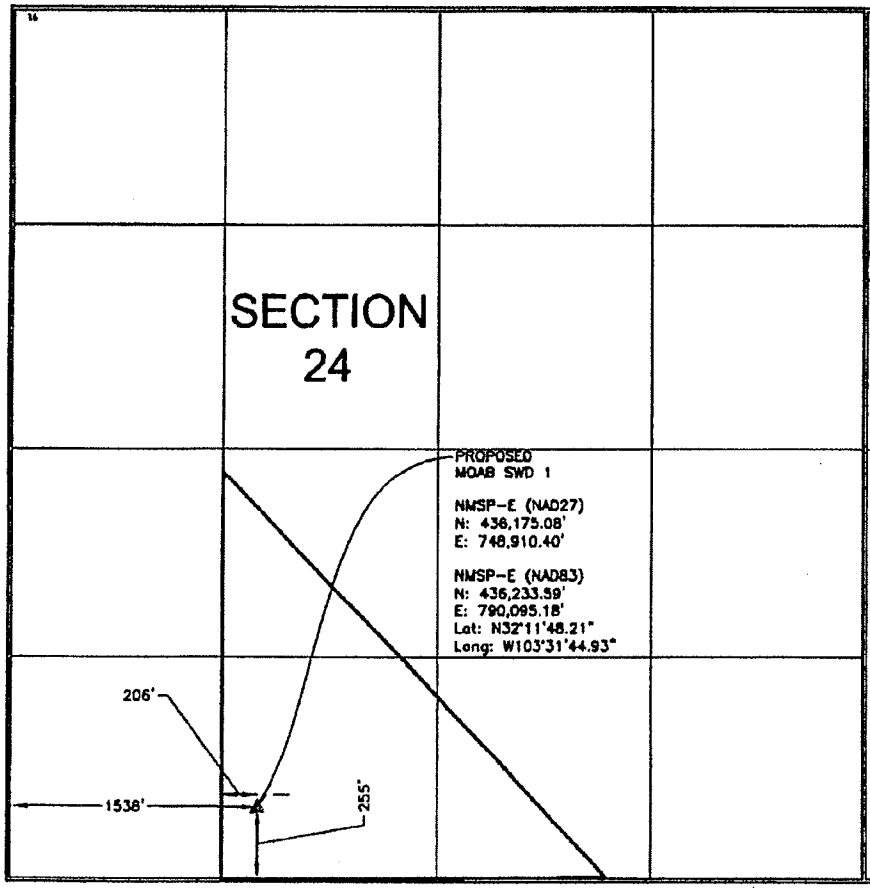
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	24	24 S	33 E	N/A	255'	SOUTH	1538'	WEST	LEA

[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



[16] OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this locatio pursuant to a contract with an owner of such a mineral or working interest or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature — Date: 9/24/2018

Chris Weyand
Printed Name

chris@lonquist.com
E-mail Address

[17] SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat wa plotted from field notes of actual surveys made by me o under my supervision, and that the same is true and correct to the best of my belief.

8/17/18
Date of Survey

Signature and Seal of Professional Surveyor

CODY C. CLARK
NEW MEXICO
23001
PROFESSIONAL SURVEYOR

23001
Certificate Number

New Mexico Office of the State Engineer
Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) Q64	Q16	Q4	Sec	Twn	Rng	(NAD83 UTM in meters) X	Y
	C 03600 POD1	2	2	1	26	24S	33E	637275	3563023

Driller License: 1186 **Driller Company:** ENVIRO-DRILL, INC.

Driller Name: RODNEY HAMMER

Drill Start Date: 01/07/2013 **Drill Finish Date:** 01/07/2013 **Plug Date:**

Log File Date: 01/30/2013 **PCW Rcv Date:** **Source:** Shallow

Pump Type: **Pipe Discharge Size:** **Estimated Yield:**

Casing Size: **Depth Well:** **Depth Water:**

New Mexico Office of the State Engineer
Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) Q64	Q16	Q4	Sec	Tws	Rng	(NAD83 UTM in meters) X	Y
	C 03600 POD2	4	4	1	25	24S	33E	638824	3562329

Driller License: 1186 **Driller Company:** ENVIRO-DRILL, INC.

Driller Name: RODNEY HAMMER

Drill Start Date: 01/07/2013 **Drill Finish Date:** 01/08/2013 **Plug Date:**

Log File Date: 01/30/2013 **PCW Rcv Date:** **Source:** Shallow

Pump Type: **Pipe Discharge Size:** **Estimated Yield:**

Casing Size: **Depth Well:** **Depth Water:**

New Mexico Office of the State Engineer
Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) Q64	Q16	Q4	Sec	Twp	Rng	(NAD83 UTM in meters) X	Y
	C 03600 POD3	3	4	2	26	24S	33E	637784	3562340

Driller License: 1186 **Driller Company:** ENVIRO-DRILL, INC.
Driller Name: RODNEY HAMMER

Drill Start Date: 01/16/2013 **Drill Finish Date:** 01/16/2013 **Plug Date:**
Log File Date: 01/30/2013 **PCW Rcv Date:** **Source:** Shallow
Pump Type: **Pipe Discharge Size:** **Estimated Yield:**
Casing Size: **Depth Well:** **Depth Water:**

New Mexico Office of the State Engineer
Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) Q64	Q16	Q4	Sec	Tws	Rng	(NAD83 UTM in meters) X	Y
	C 03601 POD1	4	4	2	23	24S	33E	638124	3563937

Driller License: 1186 **Driller Company:** ENVIRO-DRILL, INC.

Driller Name: RODNEY HAMMER

Drill Start Date: 12/21/2012 **Drill Finish Date:** 12/21/2012 **Plug Date:**

Log File Date: 01/08/2013 **PCW Rcv Date:** **Source:** Shallow

Pump Type: **Pipe Discharge Size:** **Estimated Yield:**

Casing Size: **Depth Well:** **Depth Water:**