

From: [Montgomery, Kelley A](#)
To: [Murphy, Kathleen A, EMNRD](#)
Cc: [Gago, Jose L](#)
Subject: [EXT] RE: OXY PMXs
Date: Tuesday, June 22, 2021 2:54:10 PM

Thanks Kathleen. We'll get an answer for you.

Also, we have obtained two water samples and are waiting on the analysis. I will forward them to you as soon as I get them.

Thank you for your help.

Kelley

From: Murphy, Kathleen A, EMNRD <KathleenA.Murphy@state.nm.us>
Sent: Tuesday, June 22, 2021 3:22 PM
To: Montgomery, Kelley A <Kelley_Montgomery@oxy.com>
Cc: Gago, Jose L <Jose_Gago@oxy.com>
Subject: [EXTERNAL] RE: OXY PMXs

WARNING - This message is from an EXTERNAL SENDER - be CAUTIOUS, particularly with links and attachments.

Kelley,

PMX 294 for wells 312 and 632. The C-108 says on P 5 and 9 the "proposed operations data sheet is attached". I did not see this data sheet attached or find the answers to the questions for #7 found on P3 of the C-108. I understand some of this data may already be answered in R-6199 F or elsewhere, but I need a better answer for #7. Please reference other orders or cases and pages if necessary.

When I looked at PMX 295, which is for well 813, question #7 had a more complete answer: injection rates, surface pressures, water analyses.

Thanks

Kathleen Murphy

Petroleum Specialist- Advanced
Geologist/GIS Analyst
New Mexico Oil Conservation Division
1200 South St Francis Drive
Santa Fe, New Mexico 87505

505-365-3161

Email: kathleena.murphy@state.nm.us

** Please use email during this stressful time**



From: Montgomery, Kelley A <Kelley_Montgomery@oxy.com>
Sent: Monday, June 14, 2021 4:09 PM
To: Murphy, Kathleen A, EMNRD <KathleenA.Murphy@state.nm.us>
Cc: Gago, Jose L <Jose_Gago@oxy.com>
Subject: [EXT] RE: OXY PMXs

Hi Kathleen,

The NHU order allows for injection of produced gases, CO2 and water. We consider purchased CO2 to be CO2. Produced gases includes produced/recycled CO2, and other gases produced from the wellbore.

We are seeking authority to inject produced gases in these wells.

Please let me know if you need further clarification.

Thanks and have a nice evening!

Kelley

From: Murphy, Kathleen A, EMNRD <KathleenA.Murphy@state.nm.us>
Sent: Monday, June 14, 2021 4:13 PM
To: Montgomery, Kelley A <Kelley_Montgomery@oxy.com>
Cc: Gago, Jose L <Jose_Gago@oxy.com>
Subject: [EXTERNAL] RE: OXY PMXs

WARNING - This message is from an EXTERNAL SENDER - be CAUTIOUS, particularly with links and attachments.

One other question to clarify:

In the C-108 on the cover letter it says OXY will be injecting *produced CO2*.

On P7 and 10 I believe it says OXY will be injecting *produced gas*.

Is OXY now getting the administrative approval to inject *produced gas* as a single component, since these wells are already injecting CO2 and water?

Thanks.

From: Montgomery, Kelley A <Kelley_Montgomery@oxy.com>
Sent: Monday, June 14, 2021 1:26 PM
To: Murphy, Kathleen A, EMNRD <KathleenA.Murphy@state.nm.us>
Cc: Gago, Jose L <Jose_Gago@oxy.com>
Subject: [EXT] RE: OXY PMXs

Hi Kathleen,

We are working with our field personnel to obtain water well analyses and are also checking our other C108 submissions to obtain analyses where there is a water well within 1 mile. I apologize for the inconvenience and appreciate your patience.

Kelley

From: Montgomery, Kelley A
Sent: Wednesday, June 9, 2021 2:37 PM
To: Murphy, Kathleen A, EMNRD <KathleenA.Murphy@state.nm.us>
Cc: Gago, Jose L <Jose_Gago@oxy.com>
Subject: RE: OXY PMXs

Will do.

From: Murphy, Kathleen A, EMNRD <KathleenA.Murphy@state.nm.us>
Sent: Wednesday, June 9, 2021 2:35 PM
To: Montgomery, Kelley A <Kelley_Montgomery@oxy.com>
Cc: Gago, Jose L <Jose_Gago@oxy.com>
Subject: [EXTERNAL] RE: OXY PMXs

WARNING - This message is from an EXTERNAL SENDER - be CAUTIOUS, particularly with links and attachments.

So is there someplace in previous NHU case exhibits where the water wells are discussed, and samples taken of wells in the unit, or a discussion of the wells being on city water systems? This would be similar to how you reference the geology section. I just don't know specifically where to find this and it would be useful for the review of the rest of the PMXs.

From: Montgomery, Kelley A <Kelley_Montgomery@oxy.com>
Sent: Wednesday, June 9, 2021 1:30 PM
To: Murphy, Kathleen A, EMNRD <KathleenA.Murphy@state.nm.us>
Cc: Gago, Jose L <Jose_Gago@oxy.com>
Subject: [EXT] RE: OXY PMXs

Hi Kathleen,

We pulled all of the historical water wells within 1 mile on the engineering website and attached two excel files. There is a lot of overlap between the two wells as they are located near each other. The majority of these wells are within the city limits or very close and the residents are all on city water. A 2014 city ordinance (below)

required all domestic water wells within the city and those residences on city water to be P&A'd. I spoke with our operations personnel and they do not know of any active water wells within 1 mile of the wells. I found two wells on the list (highlighted) that were drilled after 2014 that could potentially still be active. I can have our operations folks check on these two if necessary? Please let me know. Kelley

Chapter 13.28 - WATER WELLS

13.28.010 - Restrictions upon drilling of water wells within the City limits.

A.

It shall be unlawful for any person, firm, or entity to drill, deepen, or cause to be drilled, any water well or any well capable of producing water within the City of Hobbs without written consent of the Hobbs City Commission for good and sufficient cause shown.

B.

Pursuant to the Safe Drinking Water Act (SDWA) and applicable State and Federal rules and regulations governing cross connections, cross contamination, and physical separation of conflicting water systems, all water wells located on premises or property connected to the City's water distribution system shall be properly plugged and abandoned in accordance with New Mexico Environment Department (NMED) rules and regulations. It shall be unlawful for the owner of any premises or property connected to the City's water distribution system to allow any water well to remain in operation and not properly plugged and abandoned.

C.

Upon violation of this section, any person, firm or entity found guilty shall be punishable by fine not to exceed five hundred dollars (\$500.00) per violation and the City of Hobbs may, at its discretion, seek injunctive relief in a court of competent jurisdiction against any person violating this section.

([Ord. No. 1079](#), 11-3-2014)

From: Murphy, Kathleen A, EMNRD <KathleenA.Murphy@state.nm.us>

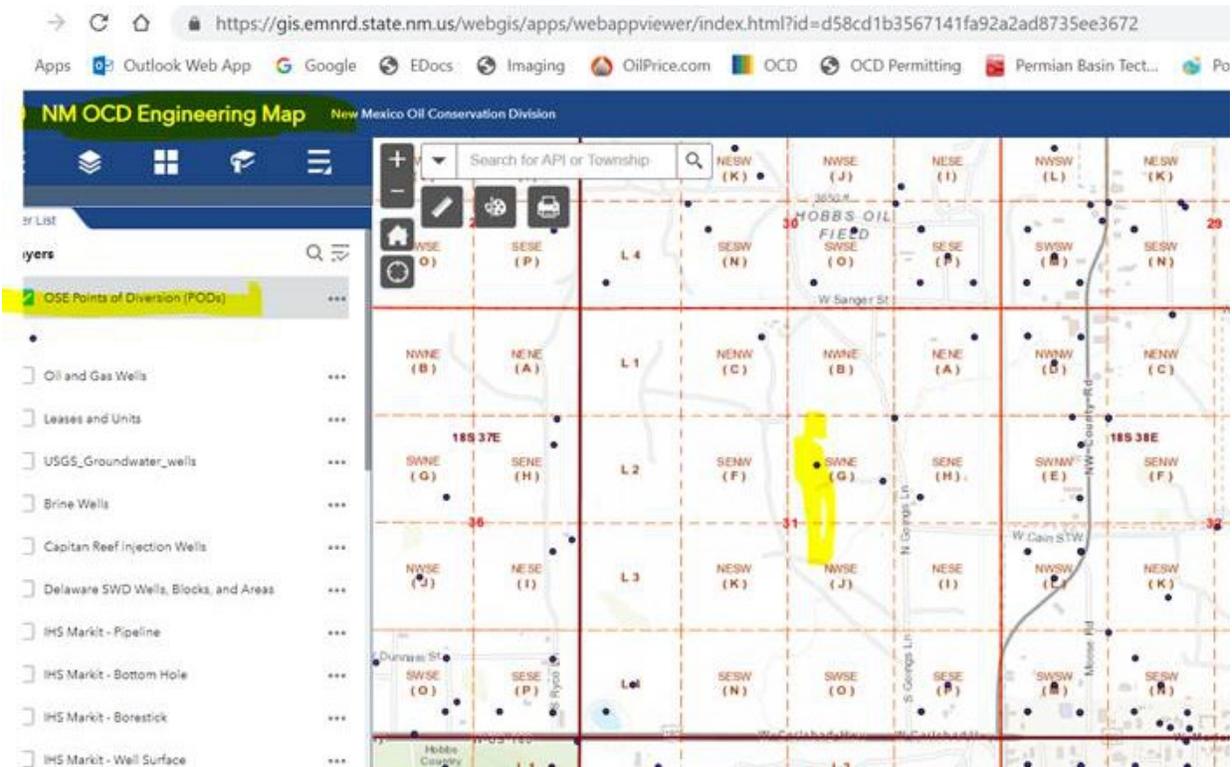
Sent: Tuesday, June 8, 2021 10:48 AM

To: Montgomery, Kelley A <Kelley_Montgomery@oxy.com>

Subject: [EXTERNAL] RE: OXY PMXs

WARNING - This message is from an EXTERNAL SENDER - be CAUTIOUS, particularly with links and attachments.

I would look at the OCD Engineering webpage and turn on the OSE PODs. I would determine how many water wells are within a mile and then determine if any are active. I thought I saw a couple that were domestic and active.



From: Montgomery, Kelley A <Kelley_Montgomery@oxy.com>
Sent: Tuesday, June 8, 2021 9:26 AM
To: Murphy, Kathleen A, EMNRD <KathleenA.Murphy@state.nm.us>
Cc: Gago, Jose L <Jose_Gago@oxy.com>
Subject: [EXT] RE: OXY PMXs

Hi Kathleen,

We pulled up the GIS map and did not see any active water wells. Can you tell how you pulled up water well information?

Thank you for your help.

Kelley

From: Murphy, Kathleen A, EMNRD <KathleenA.Murphy@state.nm.us>
Sent: Monday, June 7, 2021 4:22 PM
To: Montgomery, Kelley A <Kelley_Montgomery@oxy.com>
Subject: [EXTERNAL] RE: OXY PMXs

WARNING - This message is from an EXTERNAL SENDER - be CAUTIOUS, particularly with links and attachments.

Kelly,

I am reviewing PMX 294 which are the NHU SA/G 632 and 312 wells, and applied for in October 2020.

Questions thus far:

On P 9 of the application, the 632 well will need to be edited that it is located in unit J, not B.

Also, the application states (pages 4, 8) there are no fresh water wells within a mile of the injection wells per field personnel. When I look on GIS at the OSE pods there are many wells within a mile, and several that are domestic. Please review this and advise.

Sincerely,

Kathleen Murphy

From: Murphy, Kathleen A, EMNRD
Sent: Thursday, June 3, 2021 1:40 PM
To: Montgomery, Kelley A <Kelley_Montgomery@oxy.com>
Subject: OXY PMXs

Kelly,

I am going to start working on the OXY PMXs—there are 10 I believe. I will do the NHU 312 and 632 first—PMX-294-- as it was submitted in October of last year. Is there any preferred order of the batch that you submitted in April, I believe.

thanks

Kathleen Murphy

Petroleum Specialist- Advanced
Geologist/GIS Analyst
New Mexico Oil Conservation Division
1200 South St Francis Drive
Santa Fe, New Mexico 87505

505-365-3161

Email: kathleena.murphy@state.nm.us

** Please use email during this stressful time**



June 25, 2021

Dusty Armstrong
Laboratory Services, Inc.
2609 W. Marland
Hobbs, NM 88240

RE: OXY

Enclosed are the results of analyses for samples received by the laboratory on 06/18/21 10:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Total Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:Laboratory Services, Inc.
2609 W. Marland
Hobbs NM, 88240Project: OXY
Project Number: NONE GIVEN
Project Manager: Dusty Armstrong
Fax To: (505) 397-3713Reported:
25-Jun-21 17:23

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WELL # 1L-4920 X	H211573-01	Water	18-Jun-21 10:15	18-Jun-21 10:45
WELL # 2L-4920	H211573-02	Water	18-Jun-21 10:30	18-Jun-21 10:45

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Laboratory Services, Inc.
 2609 W. Marland
 Hobbs NM, 88240

 Project: OXY
 Project Number: NONE GIVEN
 Project Manager: Dusty Armstrong
 Fax To: (505) 397-3713

 Reported:
 25-Jun-21 17:23

WELL # 1L-4920 X
H211573-01 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Inorganic Compounds

Alkalinity, Bicarbonate	220		5.00	mg/L	1	1060808	AC	18-Jun-21	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	1060808	AC	18-Jun-21	310.1	
Chloride*	100		4.00	mg/L	1	1061604	GM	21-Jun-21	4500-Cl-B	
Conductivity*	770		1.00	umhos/cm @ 25°C	1	1061814	AC	18-Jun-21	120.1	
pH*	7.49		0.100	pH Units	1	1061814	AC	18-Jun-21	150.1	
Temperature °C	17.7			pH Units	1	1061814	AC	18-Jun-21	150.1	
Resistivity	13.0			Ohms/m	1	1061814	AC	18-Jun-21	120.1	
Specific Gravity @ 60° F	1.003		0.000	[blank]	1	1061801	AC	18-Jun-21	SM 2710F	
Sulfate*	61.6		10.0	mg/L	1	1061811	AC	18-Jun-21	375.4	
TDS*	453		5.00	mg/L	1	1061813	GM	21-Jun-21	160.1	
Alkalinity, Total*	180		4.00	mg/L	1	1060808	AC	18-Jun-21	310.1	
Sulfide, total	<0.0100		0.0100	mg/L	1	1062103	AC	21-Jun-21	376.2	

Green Analytical Laboratories
Total Recoverable Metals by ICP (E200.7)

Barium*	0.064		0.050	mg/L	1	B211388	JDA	25-Jun-21	EPA200.7	
Calcium*	80.3		0.100	mg/L	1	B211388	JDA	25-Jun-21	EPA200.7	
Iron*	<0.050		0.050	mg/L	1	B211388	JDA	25-Jun-21	EPA200.7	
Magnesium*	14.2		0.100	mg/L	1	B211388	JDA	25-Jun-21	EPA200.7	
Potassium*	2.41		1.00	mg/L	1	B211388	JDA	25-Jun-21	EPA200.7	
Sodium*	45.0		1.00	mg/L	1	B211388	JDA	25-Jun-21	EPA200.7	

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Laboratory Services, Inc.
 2609 W. Marland
 Hobbs NM, 88240

 Project: OXY
 Project Number: NONE GIVEN
 Project Manager: Dusty Armstrong
 Fax To: (505) 397-3713

 Reported:
 25-Jun-21 17:23

WELL # 2L-4920
H211573-02 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Inorganic Compounds

Alkalinity, Bicarbonate	224		5.00	mg/L	1	1062105	AC	21-Jun-21	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	1062105	AC	21-Jun-21	310.1	
Chloride*	92.0		4.00	mg/L	1	1061604	GM	21-Jun-21	4500-CI-B	
Conductivity*	773		1.00	umhos/cm @ 25°C	1	1061814	AC	18-Jun-21	120.1	
pH*	7.49		0.100	pH Units	1	1061814	AC	18-Jun-21	150.1	
Temperature °C	17.7			pH Units	1	1061814	AC	18-Jun-21	150.1	
Resistivity	12.9			Ohms/m	1	1061814	AC	18-Jun-21	120.1	
Specific Gravity @ 60° F	1.001		0.000	[blank]	1	1061801	AC	18-Jun-21	SM 2710F	
Sulfate*	66.9		10.0	mg/L	1	1061811	AC	18-Jun-21	375.4	
TDS*	461		5.00	mg/L	1	1061813	GM	21-Jun-21	160.1	
Alkalinity, Total*	184		4.00	mg/L	1	1062105	AC	21-Jun-21	310.1	
Sulfide, total	<0.0100		0.0100	mg/L	1	1062103	AC	21-Jun-21	376.2	

Green Analytical Laboratories
Total Recoverable Metals by ICP (E200.7)

Barium*	0.067		0.050	mg/L	1	B211388	JDA	25-Jun-21	EPA200.7	
Calcium*	74.4		0.100	mg/L	1	B211388	JDA	25-Jun-21	EPA200.7	
Iron*	<0.050		0.050	mg/L	1	B211388	JDA	25-Jun-21	EPA200.7	
Magnesium*	11.7		0.100	mg/L	1	B211388	JDA	25-Jun-21	EPA200.7	
Potassium*	2.41		1.00	mg/L	1	B211388	JDA	25-Jun-21	EPA200.7	
Sodium*	67.5		1.00	mg/L	1	B211388	JDA	25-Jun-21	EPA200.7	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Laboratory Services, Inc.
 2609 W. Marland
 Hobbs NM, 88240

 Project: OXY
 Project Number: NONE GIVEN
 Project Manager: Dusty Armstrong
 Fax To: (505) 397-3713

 Reported:
 25-Jun-21 17:23

Inorganic Compounds - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1060808 - General Prep - Wet Chem
Blank (1060808-BLK1)

Prepared & Analyzed: 08-Jun-21

Alkalinity, Carbonate	ND	1.00	mg/L							
Alkalinity, Bicarbonate	5.00	5.00	mg/L							
Alkalinity, Total	4.00	4.00	mg/L							

LCS (1060808-BS1)

Prepared & Analyzed: 08-Jun-21

Alkalinity, Carbonate	ND	2.50	mg/L				80-120			
Alkalinity, Bicarbonate	305	12.5	mg/L				80-120			
Alkalinity, Total	250	10.0	mg/L	250		100	80-120			

LCS Dup (1060808-BSD1)

Prepared & Analyzed: 08-Jun-21

Alkalinity, Carbonate	ND	2.50	mg/L				80-120		20	
Alkalinity, Bicarbonate	305	12.5	mg/L				80-120	0.00	20	
Alkalinity, Total	250	10.0	mg/L	250		100	80-120	0.00	20	

Batch 1061604 - General Prep - Wet Chem
Blank (1061604-BLK1)

Prepared & Analyzed: 16-Jun-21

Chloride	ND	4.00	mg/L							
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LCS (1061604-BS1)

Prepared & Analyzed: 16-Jun-21

Chloride	104	4.00	mg/L	100		104	80-120			
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LCS Dup (1061604-BSD1)

Prepared & Analyzed: 16-Jun-21

Chloride	100	4.00	mg/L	100		100	80-120	3.92	20	
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Batch 1061801 - General Prep - Wet Chem
Duplicate (1061801-DUP1)

Source: H211562-01

Prepared & Analyzed: 18-Jun-21

Specific Gravity @ 60° F	1.003	0.000	[blank]		1.010			0.701	20	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Laboratory Services, Inc.
 2609 W. Marland
 Hobbs NM, 88240

 Project: OXY
 Project Number: NONE GIVEN
 Project Manager: Dusty Armstrong
 Fax To: (505) 397-3713

 Reported:
 25-Jun-21 17:23

Inorganic Compounds - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1061811 - General Prep - Wet Chem

Blank (1061811-BLK1)				Prepared & Analyzed: 18-Jun-21						
Sulfate	ND	10.0	mg/L							
LCS (1061811-BS1)				Prepared & Analyzed: 18-Jun-21						
Sulfate	23.4	10.0	mg/L	20.0		117	80-120			
LCS Dup (1061811-BSD1)				Prepared & Analyzed: 18-Jun-21						
Sulfate	23.3	10.0	mg/L	20.0		116	80-120	0.257	20	

Batch 1061813 - Filtration

Blank (1061813-BLK1)				Prepared: 18-Jun-21 Analyzed: 23-Jun-21						
TDS	ND	5.00	mg/L							
LCS (1061813-BS1)				Prepared: 18-Jun-21 Analyzed: 21-Jun-21						
TDS	527		mg/L	500		105	80-120			
Duplicate (1061813-DUP1)				Source: H211552-02 Prepared: 18-Jun-21 Analyzed: 23-Jun-21						
TDS	571	5.00	mg/L		571			0.00	20	

Batch 1061814 - General Prep - Wet Chem

LCS (1061814-BS1)				Prepared & Analyzed: 18-Jun-21						
pH	7.10		pH Units	7.00		101	90-110			
Conductivity	501		uS/cm	500		100	80-120			
Duplicate (1061814-DUP1)				Source: H211572-01 Prepared & Analyzed: 18-Jun-21						
pH	6.83	0.100	pH Units		6.80			0.440	20	
Conductivity	7450	1.00	umhos/cm @ 25°C		7200			3.41	20	
Resistivity	1.34		Ohms/m		1.39			3.41	20	
Temperature °C	17.6		pH Units		17.7			0.567	200	

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Laboratory Services, Inc.
 2609 W. Marland
 Hobbs NM, 88240

 Project: OXY
 Project Number: NONE GIVEN
 Project Manager: Dusty Armstrong
 Fax To: (505) 397-3713

 Reported:
 25-Jun-21 17:23

Inorganic Compounds - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1062103 - General Prep - Wet Chem
Blank (1062103-BLK1)

Prepared & Analyzed: 21-Jun-21

Sulfide, total ND 0.0100 mg/L

Duplicate (1062103-DUP1)

Source: H211572-01

Prepared & Analyzed: 21-Jun-21

Sulfide, total 0.0329 0.0100 mg/L 0.0344 4.54 20

Batch 1062105 - General Prep - Wet Chem
Blank (1062105-BLK1)

Prepared & Analyzed: 21-Jun-21

Alkalinity, Carbonate ND 1.00 mg/L

Alkalinity, Bicarbonate 5.00 5.00 mg/L

Alkalinity, Total 4.00 4.00 mg/L

LCS (1062105-BS1)

Prepared & Analyzed: 21-Jun-21

Alkalinity, Carbonate ND 2.50 mg/L 80-120

Alkalinity, Bicarbonate 292 12.5 mg/L 80-120

Alkalinity, Total 240 10.0 mg/L 250 96.0 80-120

LCS Dup (1062105-BSD1)

Prepared & Analyzed: 21-Jun-21

Alkalinity, Carbonate ND 2.50 mg/L 80-120 20

Alkalinity, Bicarbonate 330 12.5 mg/L 80-120 12.0 20

Alkalinity, Total 270 10.0 mg/L 250 108 80-120 11.8 20

Matrix Spike (1062105-MS1)

Source: H211573-02

Prepared & Analyzed: 21-Jun-21

Alkalinity, Total 264 4.00 mg/L 100 184 80.0 70-130

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence or any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Laboratory Services, Inc. 2609 W. Marland Hobbs NM, 88240	Project: OXY Project Number: NONE GIVEN Project Manager: Dusty Armstrong Fax To: (505) 397-3713	Reported: 25-Jun-21 17:23
---	--	------------------------------

Total Recoverable Metals by ICP (E200.7) - Quality Control

Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B211388 - Total Rec. 200.7/200.8/200.2

Blank (B211388-BLK1)

Prepared: 24-Jun-21 Analyzed: 25-Jun-21

Potassium	ND	1.00	mg/L							
Calcium	ND	0.100	mg/L							
Sodium	ND	1.00	mg/L							
Magnesium	ND	0.100	mg/L							
Barium	ND	0.050	mg/L							
Iron	ND	0.050	mg/L							

LCS (B211388-BS1)

Prepared: 24-Jun-21 Analyzed: 25-Jun-21

Potassium	8.22	1.00	mg/L	8.00		103	85-115			
Barium	2.00	0.050	mg/L	2.00		99.8	85-115			
Sodium	2.91	1.00	mg/L	3.24		89.9	85-115			
Magnesium	20.6	0.100	mg/L	20.0		103	85-115			
Calcium	4.00	0.100	mg/L	4.00		100	85-115			
Iron	4.00	0.050	mg/L	4.00		100	85-115			

LCS Dup (B211388-BSD1)

Prepared: 24-Jun-21 Analyzed: 25-Jun-21

Magnesium	20.6	0.100	mg/L	20.0		103	85-115	0.00238	20	
Barium	1.97	0.050	mg/L	2.00		98.6	85-115	1.13	20	
Potassium	8.08	1.00	mg/L	8.00		101	85-115	1.71	20	
Iron	4.03	0.050	mg/L	4.00		101	85-115	0.696	20	
Sodium	2.89	1.00	mg/L	3.24		89.2	85-115	0.817	20	
Calcium	4.00	0.100	mg/L	4.00		100	85-115	0.0699	20	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence or any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

CARDINAL LABORATORIES
SCALE INDEX WATER ANALYSIS REPORT

Company : LABORATORY SERVICES
 Lease Name : OXY
 Well Number : WELL #1 1L-4920 X (H211573-01)
 Location : NOT GIVEN

Date Sampled : 06/18/21
 Company Rep. : DUSTY ARMSTRONG

ANALYSIS

1. pH	7.49		
2. Specific Gravity @ 60/60 F.	1.0030		
3. CaCO3 Saturation Index @ 80 F.	-0.200		
@ 140 F.	+0.500		'Calcium Carbonate Scale Possible'

Dissolved Gasses

4. Hydrogen Sulfide	0.000	PPM
5. Carbon Dioxide	ND	PPM
6. Dissolved Oxygen	ND	PPM

Cations

		/	Eq. Wt.	=	MEQ/L
7. Calcium (Ca++)	80.30	/	20.1	=	4.00
8. Magnesium (Mg++)	14.20	/	12.2	=	1.16
9. Sodium (Na+)	45	/	23.0	=	2.52
10. Barium (Ba++)	0.064	/	68.7	=	0.00

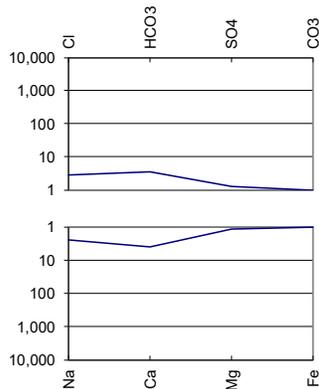
Anions

11. Hydroxyl (OH-)	0	/	17.0	=	0.00
12. Carbonate (CO3=)	0	/	30.0	=	0.00
13. Bicarbonate (HCO3-)	220	/	61.1	=	3.60
14. Sulfate (SO4=)	62	/	48.8	=	1.26
15. Chloride (Cl-)	100	/	35.5	=	2.82

Other

16. Total Iron (Fe)	0.000	/	18.2	=	0.00
17. Total Dissolved Solids	453				
18. Total Hardness As CaCO3	259.0				
19. Calcium Sulfate Solubility @ 90 F.	1,426				
20. Resistivity (Measured)	13.000	Ohm/Meters	@ 77	Degrees (F)	

Logarithmic Water Pattern



PROBABLE MINERAL COMPOSITION

COMPOUND	Eq. Wt.	X	MEQ/L	=	mg/L
Ca(HCO3)2	81.04	X	3.60	=	292
CaSO4	68.07	X	0.39	=	27
CaCl2	55.50	X	0.00	=	0
Mg(HCO3)2	73.17	X	0.00	=	0
MgSO4	60.19	X	0.00	=	0
MgCl2	47.62	X	1.16	=	55
NaHCO3	84.00	X	0.00	=	0
NaSO4	71.03	X	0.87	=	62
NaCl	58.46	X	1.65	=	97

ND = Not Determined

CARDINAL LABORATORIES
SCALE INDEX WATER ANALYSIS REPORT

Company : LABORATORY SERVICES
 Lease Name : OXY
 Well Number : WELL #2 L-4920 X (H211573-02)
 Location : NOT GIVEN

Date Sampled : 06/18/21
 Company Rep. : DUSTY ARMSTRONG

ANALYSIS

1. pH	7.49		
2. Specific Gravity @ 60/60 F.	1.0010		
3. CaCO3 Saturation Index @ 80 F.	-0.226		
	@ 140 F.	+0.474	'Calcium Carbonate Scale Possible'

Dissolved Gasses

4. Hydrogen Sulfide	0.000	PPM
5. Carbon Dioxide	ND	PPM
6. Dissolved Oxygen	ND	PPM

Cations

		/	Eq. Wt.	=	MEQ/L
7. Calcium (Ca++)	74.40	/	20.1	=	3.70
8. Magnesium (Mg++)	11.70	/	12.2	=	0.96
9. Sodium (Na+)	68	/	23.0	=	2.97
10. Barium (Ba++)	0.067	/	68.7	=	0.00

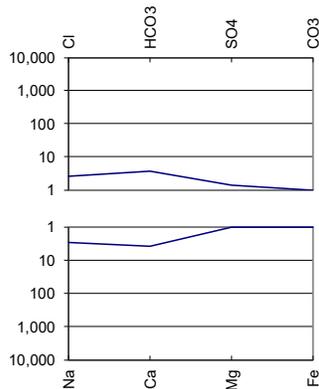
Anions

11. Hydroxyl (OH-)	0	/	17.0	=	0.00
12. Carbonate (CO3=)	0	/	30.0	=	0.00
13. Bicarbonate (HCO3-)	224	/	61.1	=	3.67
14. Sulfate (SO4=)	67	/	48.8	=	1.37
15. Chloride (Cl-)	92	/	35.5	=	2.59

Other

16. Total Iron (Fe)	0.000	/	18.2	=	0.00
17. Total Dissolved Solids	461				
18. Total Hardness As CaCO3	234.0				
19. Calcium Sulfate Solubility @ 90 F.	1,439				
20. Resistivity (Measured)	12.900	Ohm/Meters	@ 77	Degrees (F)	

Logarithmic Water Pattern



PROBABLE MINERAL COMPOSITION

COMPOUND	Eq. Wt.	X	MEQ/L	=	mg/L
Ca(HCO3)2	81.04	X	3.67	=	297
CaSO4	68.07	X	0.04	=	2
CaCl2	55.50	X	0.00	=	0
Mg(HCO3)2	73.17	X	0.00	=	0
MgSO4	60.19	X	0.00	=	0
MgCl2	47.62	X	0.96	=	46
NaHCO3	84.00	X	0.00	=	0
NaSO4	71.03	X	1.34	=	95
NaCl	58.46	X	1.63	=	95

ND = Not Determined



C-108 APPLICATION FOR AUTHORIZATION TO INJECT ADMINISTRATIVE COMPLETENESS FORM

Well Name: _____

Applicant: _____

PO Number: _____

Admin. App. No: _____

C-108 Item	Description of Required Content	Yes	No
I. PURPOSE	Selection of proper application type.		
II. OPERATOR	Name; address; contact information.		
III. WELL DATA	Well name and number; STR location; footage location within section.		
	Each casing string to be used, including size, setting depth, sacks of cement, hole size, top of cement, and basis for determining top of cement.		
	Description of tubing to be used including size, lining material, and setting depth.		
	Name, model, and setting depth of packer to be used, or description of other seal system or assembly to be used.		
	Well diagram: Existing (if applicable).		
	Well diagram: Proposed (either Applicant's template or Division's Injection Well Data Sheet).		
IV. EXISTING PROJECT	For an expansion of existing well, Division order number authorizing existing well (if applicable).		
V. LEASE AND WELL MAP	AOR map identifying all wells and leases within 2 mile radius of proposed well, and depicting a 1/2 mile radius circle around any another projected injection well and a 1 mile radius circle around any other projected injection well in the Devonian formation.		
VI. AOR WELLS	Tabulation of data for all wells of public record within AOR which penetrate the proposed injection zone, including well type, construction, date drilled, location, depth, and record of completion.		
	Schematic of each plugged well within AOR showing all plugging detail.		
VII. PROPOSED OPERATION	Proposed average and maximum daily rate and volume of fluids to be injected.		
	Statement that the system is open or closed.		
	Proposed average and maximum injection pressure.		
	Sources and analysis of injection fluid, and compatibility with receiving formation if injection fluid is not produced water.		
	A chemical analysis of the disposal zone formation water if the injection is for disposal and oil or gas is not produced or cannot be produced from the formation within 1 mile of proposed well. Chemical analysis may be based on sample, existing literature, studies, or nearby well.		
VIII. GEOLOGIC DATA	Proposed injection interval, including appropriate lithologic detail, geologic name, thickness, and depth.		
	USDW of all aquifers overlying the proposed injection interval, including geologic name and depth to bottom.		
	USDW of all aquifers underlying the proposed injection interval, including including the geologic name and depth to bottom.		



C-108 (SWD) APPLICATION FOR AUTHORIZATION TO INJECT ADMINISTRATIVE COMPLETENESS FORM

Well Name: _____

Applicant: _____

PO Number: _____

Admin. App. No: _____

C-108 Item	Description of Required Content	Yes	No
IX. PROPOSED STIMULATION	Description of stimulation process or statement that none will be conducted.		
X. LOGS/WELL TESTS	Appropriate logging and test data on the proposed well or identification of well logs already filed with OCD.		
XI. FRESH WATER	Chemical analysis of fresh water from two or more fresh water wells (if available and producing) within 1 mile of the proposed well, including location and sampling date(s).		
XII. AFFIRMATION STATEMENT	Statement of qualified person endorsing the application, including name, title, and qualifications.		
XIII. PROOF OF NOTICE	Identify of all " <i>affected persons</i> " identified on AOR map in Section V, including all affected persons within 1/2 mile radius circle around any another projected injection well and a 1 mile radius circle around any other projected injection well in the Devonian formation.		
	Identification and notification of all surface owners.		
	BLM and/or NMSLO notified per 19.15.2.7(A)(8)(d) NMAC.		
	Notice of publication in local newspaper in county where proposed well is located with the following specific content:		
	<ul style="list-style-type: none"> • Name, address, phone number, and contact party for Applicant; 		
	<ul style="list-style-type: none"> • Intended purpose of proposed injection well, including exact location of a single well, or the section, township, and range location of multiple wells; 		
	<ul style="list-style-type: none"> • Formation name and depth, and expected maximum injection rates and pressures; and 		
	<ul style="list-style-type: none"> • Notation that interested parties shall file objections or requests for hearing with OCD no later than 15 days after the admin completeness determination. 		
XIV. CERTIFICATION	Signature by operator or designated agent, including date and contact information.		

Review Date*:

Reviewer:

Administratively COMPLETE

Administratively INCOMPLETE

NOTES:

C-108 Application
Occidental Permian Ltd.
NORTH HOBBS G/SA UNIT #312
Lea County, NM

- I. This is a pressure maintenance project. The project qualifies for administrative approval.
- II. OCCIDENTAL PERMIAN Ltd.
P.O. Box 4294 Houston, TX 77210-4294
Contact Party: Jose Gago, 832-646-4450
- III. Injection well data sheet and wellbore schematic has been attached for NORTH HOBBS G/SA UNIT #312.
- IV. This is an expansion of an existing project authorized under Order No. R-6199-F.
- V. The map with a two-mile radius surrounding the injection well and a one-half mile radius for area of review is attached.
- VI. In accordance to Order No. R-6199-F Section 4 OCCIDENTAL PERMIAN Ltd certifies that: The area of review for well "NORTH HOBBS G/SA UNIT #312" (API: 30-25-27060) shows no substantive changes in the information furnished in support of Order No. R-6199-F concerning the status of construction of any well that penetrates the injection interval within the one-half (1/2) mile around the injection well.
- VII. The proposed operations data sheet is attached.
- VIII. The information was previously submitted as part of Order No. R-6199-F application
- IX. This is an existing injection well. No stimulation is planned at this point.
- X. CBL, Neutron Porosity Log, and Laterolog were filed at the time of drilling.
- XI. Water analysis from PODs L-04920 X and L-04920 are included with the application.
- XII. N/A. This is not a disposal well.
- XIII. Section 3 of Order No. R-6199-F allows the administrative approval, from the Division Director, of additional injection wells without notice and hearing. Notices to producers and surface owners for the water/CO2 flood area were provided at the time of the application and hearing for Order No. R-6199-F.

C-108 Application
Occidental Permian Ltd.
NORTH HOBBS G/SA UNIT #632
Lea County, NM

- I. This is a pressure maintenance project. The project qualifies for administrative approval.
- II. OCCIDENTAL PERMIAN Ltd.
P.O. Box 4294 Houston, TX 77210-4294
Contact Party: Jose Gago, 832-646-4450
- III. Injection well data sheet and wellbore schematic has been attached for NORTH HOBBS G/SA UNIT #632.
- IV. This is an expansion of an existing project authorized under Order No. R-6199-F.
- V. The map with a two-mile radius surrounding the injection well and a one-half mile radius for area of review is attached.
- VI. In accordance to Order No. R-6199-F Section 4 OCCIDENTAL PERMIAN Ltd certifies that: The area of review for well "NORTH HOBBS G/SA UNIT #632" (API: 30-25-37214) shows no substantive changes in the information furnished in support of Order No. R-6199-F concerning the status of construction of any well that penetrates the injection interval within the one-half (1/2) mile around the injection well.
- VII. The proposed operations data sheet is attached.
- VIII. The information was previously submitted as part of Order No. R-6199-F application
- IX. This is an existing injection well. No stimulation is planned at this point.
- X. Compensated Neutron log filed at the time of drilling.
- XI. Water analysis from PODs L-04920 X and L-04920 are included with the application.
- XII. N/A. This is not a disposal well.
- XIII. Section 3 of Order No. R-6199-F allows the administrative approval, from the Division Director, of additional injection wells without notice and hearing. Notices to producers and surface owners for the water/CO2 flood area were provided at the time of the application and hearing for Order No. R-6199-F.

OPERATIONS DATA SHEET

Occidental Permian Ltd.
NORTH HOBBS G/SA UNIT #632 &
NORTH HOBBS G/SA UNIT #312
Lea County, NM

1. Average Injection Rate: 4,000 BWPD / 15,000 MCFGPD
Maximum Injection Rate: 9,000 BWPD / 20,000 MCFGPD
- 2 This will be a closed system.
3. Average Surface Injection Pressure: 1,100 PSIG
Maximum Surface Injection Pressure:
 - Produced Water: 1,100 PSIG
 - CO2: 1,250 PSIG
 - CO2 w/produced gas: 1,770 PSIG(In accordance with Order No. R-6199-G, effective 7/18/13)
4. Source Water – San Andres Produced Water
(Analysis previously provided at hearing, Case No. 14981)

INJECTION WELL DATA SHEET

OPERATOR: _____

WELL NAME & NUMBER: _____

WELL LOCATION: _____

FOOTAGE LOCATION

UNIT LETTER

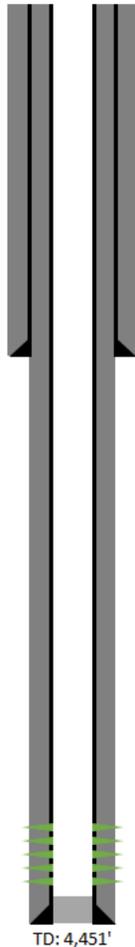
SECTION

TOWNSHIP

RANGE

WELLBORE SCHEMATIC

NORTH HOBBS G/SA UNIT #632
 2118' FSL 1335' FEL, SEC 31, T-18S, R-38E
 LEA COUNTY, NEW MEXICO
 30-025-37214



12" hole, 8 5/8" 24# J55 casing
 Casing set at 1,503'
 Cmtd w/ 850 sxs. Circulated

7 7/8" hole, 5 1/2" 15.5# J55 casing
 Casing set at 4,451'
 Cmtd w/ 900 sxs. Circulated

Perfs 4,211' to 4,310'

PB: 4,391'

TD: 4,451'

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: _____ Casing Size: _____

Cemented with: _____ sx. **or** _____ ft³

Top of Cement: _____ Method Determined: _____

Intermediate Casing

Hole Size: _____ Casing Size: _____

Cemented with: _____ sx. **or** _____ ft³

Top of Cement: _____ Method Determined: _____

Production Casing

Hole Size: _____ Casing Size: _____

Cemented with: _____ sx. **or** _____ ft³

Top of Cement: _____ Method Determined: _____

Total Depth: _____

Injection Interval

_____ feet to _____

(Perforated or Open Hole; indicate which)



FORM C-108 Technical Review Summary [Prepared by reviewer and included with application; V17]

DATE RECORD: First Rec: _____ Admin Complete: _____ or Suspended: _____ Add. Request/Reply: _____

ORDER TYPE: _____ Number: _____ Order Date: _____ Legacy Permits/Orders: _____

Well No. _____ Well Name(s): _____

API : 30-0 _____ Spud Date: _____ New or Old (EPA): _____ (UIC Class II Primacy 03/07/1982)

Footages _____ Lot _____ or Unit _____ Sec _____ Tsp _____ Rge _____ County _____

Latitude: _____ Longitude _____ Pool: _____ Pool No.: _____

Operator: _____ OGRID: _____ Contact: _____ Email: _____

COMPLIANCE RULE 5.9: Total Wells: _____ Inactive: _____ Fincl Assur: _____ Compl. Order? _____ IS 5.9 OK? _____ Date: _____

WELL FILE REVIEWED Current Status: _____

WELL DIAGRAMS: NEW: Proposed or RE-ENTER: Before Conv. After Conv. Logs in Imaging: _____

Planned Rehab Work to Well: _____

Well Construction Details	Sizes (in) Borehole / Pipe	Setting Depths (ft)	Cement Sx or Cf	Cement Top and Determination Method	
Planned _____ or Existing _____ Surface			Stage Tool		
Planned _____ or Existing _____ Interm/Prod					
Planned _____ or Existing _____ Interm/Prod					
Planned _____ or Existing _____ Prod/Liner					
Planned _____ or Existing _____ Liner					
Planned _____ or Existing _____ OH / PERF			Inj Length	Completion/Operation Details: Drilled TD _____ PBSD _____ NEW TD _____ NEW PBSD _____ NEW Open Hole _____ NEW Perfs _____ Tubing Size _____ in. Inter Coated? _____ Proposed Packer Depth _____ ft Min. Packer Depth _____ (100-ft limit) Proposed Max. Surface Press. _____ psi Admin. Inj. Press. _____ (0.2 psi per ft)	
Injection Lithostratigraphic Units:	Depths (ft)	Injection or Confining Units	Tops		
Adjacent Unit:Litho. Struc. Por.					
Confining Unit:Litho. Struc. Por.					
Proposed Inj Interval TOP:					
Proposed Inj Interval BOTTOM:					
Confining Unit:Litho. Struc. Por.					
Adjacent Unit:Litho. Struc. Por.					
AOR: Hydrologic and Geologic Information					
POTASH: R-111-P _____ Noticed? _____ BLM Sec Ord WIPP Noticed? _____ Salt/Salado T: _____ B: _____ NW: Cliff House fm _____					
USDW: Aquifer(s) _____ Max Depth _____ HYDRO AFFIRM STATEMENT By Qualified Person					
NMOSE Basin: _____ CAPITAN REEF: thru _____ adj _____ NA _____ No. GW Wells in 1-Mile Radius? _____ FW Analysis? _____					
Disposal Fluid: Formation Source(s) _____ Analysis? _____ On Lease <input type="radio"/> Operator Only <input type="radio"/> Commercial <input type="radio"/>					
Disposal Interval: Inject Rate (Avg/Max BWPD): _____ Protectable Waters? _____ Source: _____ System: Closed or Open					
HC Potential: Producing Interval? _____ Formerly Producing? _____ Method:Logs /DST /P&A /Other _____ 2-Mi Radius Pool Map _____					
AOR Wells: 1/2-M _____ or ONE-M _____ RADIUS MAP/WELL LIST: Total Penetrating Wells: _____ [AOR Hor: _____ AOR SWDs: _____]					
Penetrating Wells: No. Active Wells _____ No. Corrective? _____ on which well(s)? _____ Diagrams? _____					
Penetrating Wells: No. P&A Wells _____ No. Corrective? _____ on which well(s)? _____ Diagrams? _____					
Induced-Seismicity Risk Assess: analysis submitted _____ historical/catalog review _____ fault-slip model _____ probability _____					
NOTICE: 1/2-M _____ or ONE-M _____ : Newspaper Date _____ Mineral Owner* _____ Surface Owner _____ N. Date _____					
RULE 26.7(A): Identified Tracts? _____ Affected Persons*: _____ N. Date _____					

* new definition as of 12/28/2018 [any the mineral estate of United States or state of New Mexico; SWD operators within the notice radius]

Order Conditions: Issues: _____

Additional COAs: _____



FORM C-108 Technical Review Summary [Prepared by reviewer and included with application; V17]

DATE RECORD: First Rec: _____ Admin Complete: _____ or Suspended: _____ Add. Request/Reply: _____

ORDER TYPE: _____ Number: _____ Order Date: _____ Legacy Permits/Orders: _____

Well No. _____ Well Name(s): _____

API : 30-0 _____ Spud Date: _____ New or Old (EPA): _____ (UIC Class II Primacy 03/07/1982)

Footages _____ Lot _____ or Unit _____ Sec _____ Tsp _____ Rge _____ County _____

Latitude: _____ Longitude _____ Pool: _____ Pool No.: _____

Operator: _____ OGRID: _____ Contact: _____ Email: _____

COMPLIANCE RULE 5.9: Total Wells: _____ Inactive: _____ Fincl Assur: _____ Compl. Order? _____ IS 5.9 OK? _____ Date: _____

WELL FILE REVIEWED Current Status: _____

WELL DIAGRAMS: NEW: Proposed or RE-ENTER: Before Conv. After Conv. Logs in Imaging: _____

Planned Rehab Work to Well: _____

Well Construction Details	Sizes (in) Borehole / Pipe	Setting Depths (ft)	Cement Sx or Cf	Cement Top and Determination Method	
Planned _____ or Existing _____ Surface			Stage Tool		
Planned _____ or Existing _____ Interm/Prod					
Planned _____ or Existing _____ Interm/Prod					
Planned _____ or Existing _____ Prod/Liner					
Planned _____ or Existing _____ Liner					
Planned _____ or Existing _____ OH / PERF			Inj Length	Completion/Operation Details: Drilled TD _____ PBSD _____ NEW TD _____ NEW PBSD _____ NEW Open Hole _____ NEW Perfs _____ Tubing Size _____ in. Inter Coated? _____ Proposed Packer Depth _____ ft Min. Packer Depth _____ (100-ft limit) Proposed Max. Surface Press. _____ psi Admin. Inj. Press. _____ (0.2 psi per ft)	
Injection Lithostratigraphic Units:	Depths (ft)	Injection or Confining Units	Tops		
Adjacent Unit:Litho. Struc. Por.					
Confining Unit:Litho. Struc. Por.					
Proposed Inj Interval TOP:					
Proposed Inj Interval BOTTOM:					
Confining Unit:Litho. Struc. Por.					
Adjacent Unit:Litho. Struc. Por.					
AOR: Hydrologic and Geologic Information					
POTASH: R-111-P _____ Noticed? _____ BLM Sec Ord WIPP Noticed? _____ Salt/Salado T: _____ B: _____ NW: Cliff House fm _____					
USDW: Aquifer(s) _____ Max Depth _____ HYDRO AFFIRM STATEMENT By Qualified Person _____					
NMOSE Basin: _____ CAPITAN REEF: thru _____ adj _____ NA _____ No. GW Wells in 1-Mile Radius? _____ FW Analysis? _____					
Disposal Fluid: Formation Source(s) _____ Analysis? _____ On Lease <input type="radio"/> Operator Only <input type="radio"/> Commercial <input type="radio"/>					
Disposal Interval: Inject Rate (Avg/Max BWPD): _____ Protectable Waters? _____ Source: _____ System: Closed or Open					
HC Potential: Producing Interval? _____ Formerly Producing? _____ Method:Logs /DST /P&A /Other _____ 2-Mi Radius Pool Map _____					
AOR Wells: 1/2-M _____ or ONE-M _____ RADIUS MAP/WELL LIST: Total Penetrating Wells: _____ [AOR Hor: _____ AOR SWDs: _____]					
Penetrating Wells: No. Active Wells _____ No. Corrective? _____ on which well(s)? _____ Diagrams? _____					
Penetrating Wells: No. P&A Wells _____ No. Corrective? _____ on which well(s)? _____ Diagrams? _____					
Induced-Seismicity Risk Assess: analysis submitted _____ historical/catalog review _____ fault-slip model _____ probability _____					
NOTICE: 1/2-M _____ or ONE-M _____ : Newspaper Date _____ Mineral Owner* _____ Surface Owner _____ N. Date _____					
RULE 26.7(A): Identified Tracts? _____ Affected Persons*: _____ N. Date _____					

* new definition as of 12/28/2018 [any the mineral estate of United States or state of New Mexico; SWD operators within the notice radius]

Order Conditions: Issues: _____

Additional COAs: _____