

RICE *Operating Company*

112 West Taylor • Hobbs, New Mexico 88240

Phone: (575) 393-9174 • Fax: (575) 397-1471

April 1, 2023

REVIEWED*By Mike Buchanan at 10:57 am, Jul 03, 2023***Nelson Velez**

New Mexico Oil Conservation Division

1220 So. St. Francis Drive

Santa Fe, New Mexico 87505

Review of the 2022 ROC 2022 Annual Groundwater Report BD H-35 Emergency Overflow Pit: **Content Satisfactory.**

1. Continue to groundwater monitor per plan in report.
2. Submit 2023 Annual GW Report by April 1, 2024.

RE: 2022 Annual Groundwater Report**Rice Operating Company – BD SWD System****BD H-35 Emergency Overflow Pit (AP-71): UL/H, Section 35, T22S, R37E**

Mr. Velez:

ROC is the service provider (agent) for the BD Saltwater Disposal System and has no ownership of any portion of pipeline, well or facility. The BD SWD System is owned by a consortium of oil producers, System Parties, who provide all operating capital on a percentage ownership/usage basis.

The site is located approximately 6.5 miles southeast of Eunice, New Mexico at UL/H, Section 35, T22S, R37E as shown on the Geographic Location Map. Groundwater sampling at the site indicated the depth to groundwater is approximately 45 ft below ground surface (bgs).

One monitoring well was installed on December 21st, 2005, following the approval of the Investigation and Characterization Work Plan on November 9th, 2004. The well has been sampled regularly since installation. The most recent sampling event resulted in a chloride concentration of 1,420 mg/L in MW-1. On February 4th, 2022, NMOCD granted approval to cease sulfate analysis from MW-1. ROC will continue quarterly sampling in 2023.

Attached is the Appendix, which contains:

1. A Geographic Location Map.
2. A map showing the well location.
3. A table presenting all laboratory results and depth to groundwater for MW-1, and a graph showing recent laboratory results.
4. The laboratory analytical results for 2022.

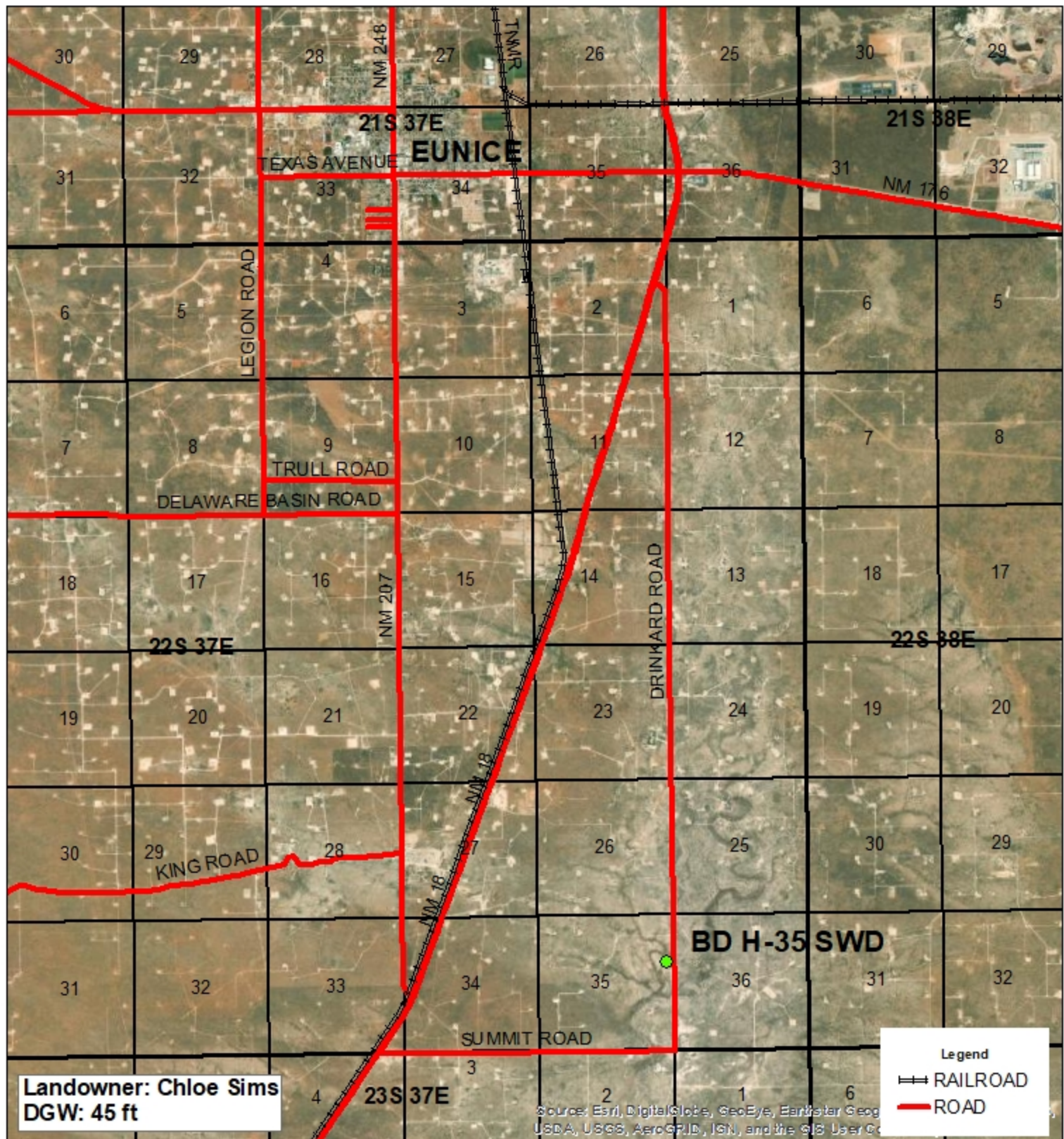
Rice Operating Company appreciates the opportunity to work with you on this project. Please contact me at (575) 393-9174 if you have any questions or wish to further discuss this site. Thank you for your time and consideration.

Sincerely,

A handwritten signature in black ink that reads "Katie Davis". The signature is written in a cursive, flowing style.

Katie Davis
Environmental Manager
RICE Operating Company (ROC)

appendix



BD H-35 SWD EMERGENCY OVERFLOW PIT

AP-71

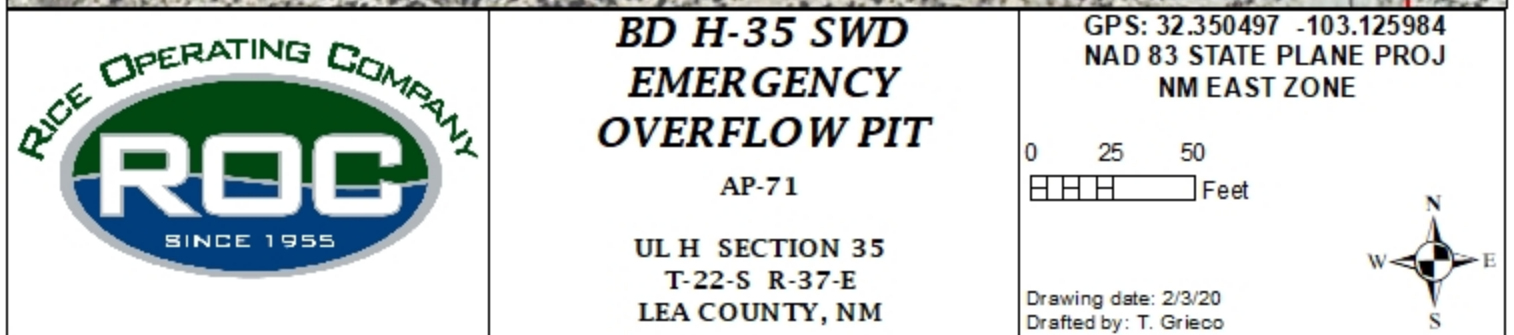
UL H SECTION 35
T-22-S R-37-E
LEA COUNTY, NM

GPS: 32.350497 -103.125984
NAD 83 STATE PLANE PROJ

0 0.5 1
Miles

Drawing date: 3/13/17
Drafted by: T. Grieco





ROC - BD H-35 (AP-71)

Unit Letter H, Section 35, T22S, R37E

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate	Comments
1	43.64	57.2	8.8	30	1/4/2006	1,880	4,290	<0.001	<0.001	<0.001	<0.001	383	Clear No odor
1	43.79	57.2	8.7	30	4/24/2006	2,360	5,380	<0.001	<0.001	<0.001	<0.001	405	XXX
1	43.92	57.2	8.6	35	7/19/2006	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
1	43.83	57.2	8.7	30	10/11/2006	2,880	7,460	<0.001	<0.001	<0.001	<0.001	561	Clear
1	44.1	57.16	8.5	30	1/25/2007	3,240	5,300	<0.001	<0.001	<0.001	<0.001	556	XXX
1	44.2	57.16	8.4	30	4/4/2007	3,220	8,680	<0.001	<0.001	<0.001	<0.001	381	XXX
1	43.99	57.16	8.6	30	8/24/2007	4,749	12,345	0.003	0.003	0.003	0.008	565	Clear No odor
1	44.13	57.16	8.5	30	10/31/2007	3,400	7,028	<0.002	<0.002	<0.002	<0.006	499	Clear No odor
1	44.22	57.2	8.4	30	1/15/2008	4,800	9,194	<0.001	<0.001	<0.001	<0.003	665	Clear No odor
1	44.26	57.2	8.4	30	4/7/2008	4,600	9,350	<0.001	<0.001	<0.001	<0.003	888	Clear No odor
1	44.34	57.2	8.4	30	7/22/2008	4,400	9,580	<0.002	<0.002	<0.002	<0.006	714	Clear No odor
1	44.4	57.2	8.3	30	10/2/2008	3,950	9,350	<0.001	<0.001	<0.001	<0.003	675	Clear No odor
1	44.47	57.2	8.3	30	1/14/2009	3,650	7,600	<0.001	<0.001	<0.001	<0.003	657	Clear No odor
1	44.52	57.2	8.2	30	4/14/2009	3,400	6,550	<0.001	<0.001	<0.001	<0.003	629	Clear No odor
1	44.56	57.23	8.2	30	7/13/2009	2,380	4,800	<0.001	<0.001	<0.001	<0.003	522	Clear No odor
1	44.62	57.23	8.2	30	10/7/2009	3,050	6,900	<0.001	<0.001	<0.001	<0.003	519	Clear No odor
1	44.66	57.23	8.2	30	1/13/2010	3,050	6,300	<0.001	<0.001	<0.001	<0.003	490	Clear No odor
1	44.68	57.23	8.2	30	4/9/2010	2,850	5,480	<0.001	<0.001	<0.001	<0.003	618	Clear No odor
1	44.6	57.23	8.2	30	7/9/2010	2,650	4,970	<0.001	<0.001	<0.001	<0.003	526	Clear No odor
1	44.55	57.23	8.2	30	10/7/2010	2,750	6,430	<0.001	<0.001	<0.001	<0.003	512	Clear No odor
1	44.76	57.24	8.1	30	1/13/2011	2,650	5,160	<0.001	<0.001	<0.001	<0.003	598	Clear No odor
1	44.77	57.24	8.1	30	4/11/2011	3,050	5,480	<0.001	<0.001	<0.001	<0.003	567	Clear No odor
1	44.86	57.24	8	30	7/13/2011	4,050	6,590	<0.001	<0.001	<0.001	<0.003	597	Clear No odor
1	44.94	57.24	8	30	10/12/2011	3,400	5,890	<0.001	<0.001	<0.001	<0.003	607	Clear No odor
1	44.99	57.24	8	30	1/17/2012	2,470	5,070	<0.001	<0.001	<0.001	<0.003	558	Clear No odor
1	45.08	57.24	7.9	30	4/16/2012	2,570	5,100	<0.001	<0.001	<0.001	<0.003	437	Clear No odor
1	45.1	57.24	7.9	30	7/12/2012	2,430	4,940	<0.001	<0.001	<0.001	<0.003	504	Clear No odor
1	45.12	57.24	7.9	30	10/4/2012	2,700	5,380	<0.001	<0.001	<0.001	<0.003	615	Clear No odor
1	45.18	57.24	7.8	30	1/7/2013	2,200	4,290	<0.001	<0.001	<0.001	<0.003	501	Clear No odor

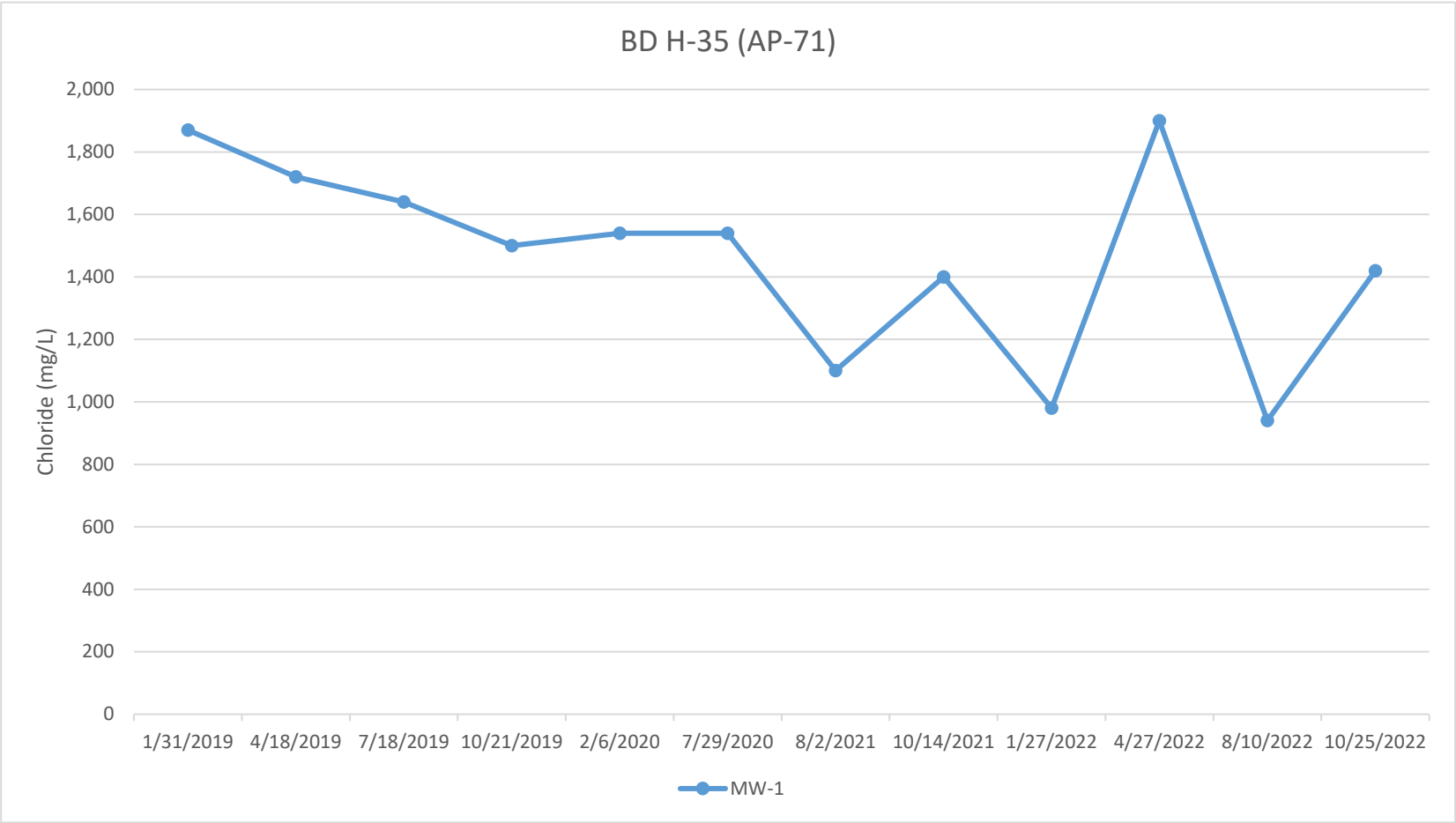
ROC - BD H-35 (AP-71)

Unit Letter H, Section 35, T22S, R37E

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate	Comments
1	45.25	57.24	7.8	30	4/18/2013	2,080	4,100	<0.001	<0.001	<0.001	<0.003	504	Clear No odor
1	45.24	57.24	7.8	30	7/15/2013	1,980	4,240	XXX	XXX	XXX	XXX	456	Clear No odor
1	45.32	57.24	7.7	30	10/16/2013	1,800	4,080	XXX	XXX	XXX	XXX	418	Clear No odor
1	45.37	57.24	7.7	30	1/15/2014	2,000	3,680	XXX	XXX	XXX	XXX	401	Clear No odor
1	45.44	57.24	7.7	30	4/4/2014	1,970	3,890	XXX	XXX	XXX	XXX	363	Clear No odor
1	45.45	57.24	7.7	30	7/15/2014	1,660	4,360	XXX	XXX	XXX	XXX	224	Clear No odor
1	42.22	57.24	9.8	100	12/16/2014	13,800	24,600	XXX	XXX	XXX	XXX	1610	Clear No odor
1	42.19	57.24	9.8	100	1/30/2015	9,600	16,800	XXX	XXX	XXX	XXX	1110	Clear No odor
1	42.47	57.24	9.6	100	4/20/2015	6,700	12,700	XXX	XXX	XXX	XXX	629	Clear No odor
1	42.18	57.24	9.79	100	7/20/2015	5,900	10,800	XXX	XXX	XXX	XXX	497	Clear No odor
1	43.03	57.24	9.24	100	10/21/2015	5,800	11,000	XXX	XXX	XXX	XXX	621	Clear No odor
1	43.08	57.24	9.2	100	1/27/2016	6,400	11,000	XXX	XXX	XXX	XXX	644	Clear No odor
1	43.26	57.24	9.1	100	4/20/2016	5,400	9,600	XXX	XXX	XXX	XXX	586	Clear No odor
1	43.39	57.24	9.1	100	7/20/2016	5,000	9,960	XXX	XXX	XXX	XXX	615	Clear No odor
1	43.25	57.24	9.1	100	10/19/2016	4,600	8,180	XXX	XXX	XXX	XXX	765	Clear No odor
1	43.43	57.24	8.9	100	1/27/2017	3,260	7,210	XXX	XXX	XXX	XXX	755	Clear No odor
1	43.48	57.24	8.9	100	4/3/2017	3,750	6,550	XXX	XXX	XXX	XXX	678	Clear No odor
1	43.47	57.24	9	100	9/28/2017	3,500	7,160	XXX	XXX	XXX	XXX	690	Clear No odor
1	43.46	57.24	9	100	10/19/2017	5,200	9,020	XXX	XXX	XXX	XXX	332	Clear No odor
1	43.45	57.24	9	100	1/15/2018	2,530	5,310	XXX	XXX	XXX	XXX	632	Clear No odor
1	43.92	57.24	8.7	100	4/25/2018	2,330	4,980	XXX	XXX	XXX	XXX	528	Clear No odor
1	44.03	57.24	8.6	100	8/1/2018	2,250	4,620	XXX	XXX	XXX	XXX	493	Clear No odor
1	44.07	57.24	8.6	100	10/29/2018	2,220	3,900	XXX	XXX	XXX	XXX	469	Clear No odor
1	44.08	57.24	9	100	1/31/2019	1,870	3,600	XXX	XXX	XXX	XXX	408	Clear No odor
1	44.2	57.24	9	100	4/18/2019	1,720	3,610	XXX	XXX	XXX	XXX	461	Clear No odor
1	44.27	57.24	9	100	7/18/2019	1,640	3,570	XXX	XXX	XXX	XXX	495	Clear No odor
1	44.33	57.24	9	100	10/21/2019	1,500	3,070	XXX	XXX	XXX	XXX	452	Clear No odor
1	44.46	57.24	8.3	100	2/6/2020	1,540	3,080	XXX	XXX	XXX	XXX	391	Clear No odor
1	44.62	57.24	8.2	100	7/29/2020	1,540	3,130	XXX	XXX	XXX	XXX	360	Clear No odor

ROC - BD H-35 (AP-71)**Unit Letter H, Section 35, T22S, R37E**

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate	Comments
1	44.86	57.24	8	100	2/4/2021	1,040	2,460	XXX	XXX	XXX	XXX	413	Clear No odor
1	44.9	57.24	8	100	4/19/2021	1,160	2,680	XXX	XXX	XXX	XXX	260	Clear No odor
1	44.96	57.24	8	100	8/2/2021	1,100	2,460	XXX	XXX	XXX	XXX	442	Clear No odor
1	44.98	57.24	8	100	10/14/2021	1,400	2,830	XXX	XXX	XXX	XXX	289	Clear No odor
1	45.15	57.24	8	100	1/27/2022	980	2,320	XXX	XXX	XXX	XXX	381	Clear No odor
1	45.18	57.24	8	100	4/27/2022	1,900	3,570	XXX	XXX	XXX	XXX	XXX	Clear No odor
1	45.24	57.24	8	100	8/10/2022	940	2,150	XXX	XXX	XXX	XXX	XXX	Clear No odor
1	45.26	57.24	8	100	10/25/2022	1,420	2,960	XXX	XXX	XXX	XXX	XXX	Clear No odor





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

November 02, 2022

KATIE JONES

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: BD H-35 SWD

Enclosed are the results of analyses for samples received by the laboratory on 10/31/22 8:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Rice Operating Company
 KATIE JONES
 112 W. Taylor
 Hobbs NM, 88240
 Fax To: (575) 397-1471

Received:	10/31/2022	Sampling Date:	10/25/2022
Reported:	11/02/2022	Sampling Type:	Water
Project Name:	BD H-35 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	T22S R37E SEC35 H-LEA CTY., NM		

Sample ID: MONITOR WELL #1 (H225108-01)

Chloride, SM4500Cl-B		mg/L		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride*	1420	4.00	10/31/2022	ND	100	100	100	0.00		
TDS 160.1		mg/L		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS*	2960	5.00	11/02/2022	ND	538	108	500	3.30		

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 and 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 damages, 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

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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 and 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 damages, 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.

A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

Email Results: kjones@riceswd.com
rozanne@sdacres.com



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

August 18, 2022

KATIE JONES

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: BD H-35 SWD

Enclosed are the results of analyses for samples received by the laboratory on 08/15/22 15:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Rice Operating Company
 KATIE JONES
 112 W. Taylor
 Hobbs NM, 88240
 Fax To: (575) 397-1471

Received:	08/15/2022	Sampling Date:	08/10/2022
Reported:	08/18/2022	Sampling Type:	Water
Project Name:	BD H-35 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	T22S R37E SEC35 H-LEA CTY., NM		

Sample ID: MONITOR WELL #1 (H223718-01)

Chloride, SM4500Cl-B		mg/L		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride*	940	4.00	08/17/2022	ND	100	100	100	3.92		
TDS 160.1		mg/L		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS*	2150	5.00	08/18/2022	ND	833	83.3	1000	2.21		

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 and 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 damages, 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



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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 and 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 damages, 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.

A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

Cardinal Laboratories, Inc.

LAB Order ID # H223718

ANALYSIS REQUEST
(Circle or Specify Method No.)[illegible]

MTBE 8021B/602

BTEX 8021B/602

TPH 418.1/TX1005 / TX1005 Extended (C35)

PAH 8270C

Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7

TCLP Metals Ag As Ba Cd Cr Pb Se Hg

FCLP Volatiles

TCLP Semi Volatiles

TCIP Pesticides

CLP Pesticides

RCI

GC/MS Vol. 8260B/624

GC/MS Semi. Vol. 8270C/625

CB's 8082/608

Pesticides 8081A/608

BOD, TSS, pH

Moisture Content

Anions (Cl, SO₄, CO₃, HCO₃)

Cations (Ca, Mg, Na, K)

Sulfates (SO₄)

Total Dissolved Solids

Chlorides
Total Dissolved Solidschlorides
Turn Around Time ~ 24 Hours

(Initials)

Email Results: kjones@riceswd.com
rozanne@sdacres.com



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

May 05, 2022

KATIE JONES

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: BD H-35 SWD

Enclosed are the results of analyses for samples received by the laboratory on 05/03/22 13:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Rice Operating Company
 KATIE JONES
 112 W. Taylor
 Hobbs NM, 88240
 Fax To: (575) 397-1471

Received:	05/03/2022	Sampling Date:	04/27/2022
Reported:	05/05/2022	Sampling Type:	Water
Project Name:	BD H-35 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	T22S R37E SEC35 H-LEA CTY., NM		

Sample ID: MONITOR WELL #1 (H221836-01)

Chloride, SM4500Cl-B		mg/L		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride*	1900	4.00	05/04/2022	ND	100	100	100	3.92		
TDS 160.1		mg/L		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS*	3570	5.00	05/05/2022	ND	536	107	500	2.53		

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 and 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 damages, 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

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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 and 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 damages, 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.

A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

Cardinal Laboratories, Inc.

Delivered By: (Circle One)  Sampler - UPS - Bus - Other:	Sample Condition <table border="1"> <thead> <tr> <th></th> <th>Cool</th> <th>Intact</th> </tr> </thead> <tbody> <tr> <td>Yes</td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>No</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </tbody> </table>		Cool	Intact	Yes	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	<input type="checkbox"/>	CHECKED BY:  (Initials)
	Cool	Intact									
Yes	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									
No	<input type="checkbox"/>	<input type="checkbox"/>									

LAB Order ID # _____

(Circle or Specify Method No.)

[illegible]

Phone Results	Yes	No
Fax Results	Yes	No Additional Fax Number:

REMARKS:	
Email Results:	kjones@riceswd.com rozanne@sdacres.com



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

February 04, 2022

KATIE JONES

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: BD H-35 SWD

Enclosed are the results of analyses for samples received by the laboratory on 02/02/22 11:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Rice Operating Company
 KATIE JONES
 112 W. Taylor
 Hobbs NM, 88240
 Fax To: (575) 397-1471

Received:	02/02/2022	Sampling Date:	01/27/2022
Reported:	02/04/2022	Sampling Type:	Water
Project Name:	BD H-35 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	T22S R37E SEC35 H-LEA CTY., NM		

Sample ID: MONITOR WELL #1 (H220392-01)

Chloride, SM4500Cl-B		mg/L		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride*	980	4.00	02/02/2022	ND	100	100	100	0.00		
Sulfate 375.4		mg/L		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Sulfate*	381	83.3	02/04/2022	ND	18.5	92.4	20.0	2.72		
TDS 160.1		mg/L		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS*	2320	5.00	02/03/2022	ND	519	104	500	3.07		

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 and 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 damages, 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

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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 and 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 damages, 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.

A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

Cardinal Laboratories, Inc.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # _____

(Circle or Specify Method No.)

0	MTBE 8021B/602	
	BTEX 8021B/602	
	TPH 418.1/TX1005 / TX1005 Extended (C35)	
	PAH 8270C	
	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	
	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	
	TCLP Volatiles	
	TCLP Semi Volatiles	
	TCLP Pesticides	
	RCI	
	GC/MS Vol. 8260B/624	
	GC/MS Semi. Vol. 8270C/625	
	PCB's 8082/608	
	Pesticides 8081A/608	
	BOD, TSS, pH	
	Moisture Content	
	Anions (Cl, SO4, CO3, HCO3)	
	Cations (Ca, Mg, Na, K)	
	Sulfates (SO4)	X
	Total Dissolved Solids	X
	Chlorides	X
	Turn Around Time ~ 24 Hours	

Received by: Tamara P. [Signature] Date: 2-2-22 Time: 1140
Received By: (Laboratory Staff) Date: _____ Time: _____

Phone Results	Yes	No
Fax Results	Yes	No Additional Fax Number:

Email Results: kjones@riceswd.com
rozanne@sdacres.com

CHECKED BY:

Sampler - UPS - Bus - Other:

(Initials)

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 Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 202244

CONDITIONS

Operator: RICE OPERATING COMPANY 122 W Taylor Hobbs, NM 88240	OGRID: 19174
	Action Number: 202244
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Review of the 2022 ROC 2022 Annual Groundwater Report BD H-35 Emergency Overflow Pit: Content Satisfactory. 1. Continue to groundwater monitor per plan in report. 2. Submit 2023 Annual GW Report by April 1, 2024.	7/3/2023