BW-035

ANNUAL REPORT

2021

2021 Annual Class III Well Report Llano Disposal, LLC **BW-35** API – 30-25-30701

Submitted by: Laura Angell, 4/26/22

TABLE OF CONTENTS

Page

- 3. Summary
- 4. Monthly fluid Injection and Brine Production
- 5. Annual Monitor Well Analytical Data
- 5. Injection Pressure Data
- 5. Pipeline Hydrostatic Test Results
- 6. Quarterly Chemical Analysis
- 9. Mechanical Integrity Test Including the Type of Test, i.e., Duration, Guage Pressure, etc.
- 9. Deviations From normal Operations
- 9. Corrective Action
- 10. Area of Review (AOR) Update Summary
- 11. Summary MITs, Surface Subsidence Surveys, Cavern Size & Shape, Cavern Volume and Geometry Measurements with Conclusion(s) and Recommendation(s)
- 12. Ratio of the Monthly Volume of Injected Fluids to Volume of Produced Brine
- 12. Major Facility Activities or Events with any Conclusions and Recommendations
- 12. Surface Subsidence Monitoring Plan Data Results
- 12. Solution Cavern Characterization Data Results
- 13. APPENDIX A MITs
- 17. APPENDIX B Annual Solution Cavern Characterization
- 20. APPENDIX C Subsidence Survey Results
- 30. APPENDIX D Sundries
- 41. APPENDIX E Well Diagrams
- 44. APPENDIX F Chemical Analysis
- 57. APPENDIX G Certification

2021

Summary of Class III Well Operations

BW35 (Siringo ACS State # 1) was put into operation in mid-2017. After initial circulation and cleanup of the newly re-entered wellbore, the well started producing good, commercial quality brine water of 10# per gallon. Well operation was as expected, with the psi of injected fresh water very close to the calculated pressure needed to force the heavier brine water to the surface. The amount of fresh water injected as compared to the amount of brine water recovered, considering the known use of injected water to fill the void created by the continual solution mining of halite, has been as planned. All numbers are reported monthly per OCD requirement and is also noted and used on the brine cavern characterization report. In general, the operation of BW35 has not been difficult, and has done a good job of servicing the requirements of industry in the Lea/Eddy County areas.

Two additional 500-barrell brine storage tanks were added to the tankage/loading facility. See **Appendix E** for a well and loading facility diagram.

A chronological list of C103 forms that Llano Disposal has filed on subject well can be found in **APPENDIX D** at the end of this report.

Monthly Fluid Injection and Brine Production

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	Brine	Brine	Fresh	Fresh		Percent
	Monthly	Cumulative	Monthly	Cumulative	9	Fresh/
Month	BBLS	BBLS	BBLS	BBLS	PSI	Brine
Jan	25,849	25,849	28,504	28,504	265	1.1027
Feb	29,656	55,505	32,696	61,199	265	1.1025
Mar	25,956	81,461	28,575	89,774	265	1.1009
Apr	17,960	99,421	19,783	109,557	265	1.1015
May	10,545	109,966	11,607	121,164	265	1.1007
Jun	22,238	132,204	24,529	145,693	265	1.1030
Jul	25,384	157,588	28,004	173,696	265	1.1032
Aug	32,510	190,098	35,774	209,470	265	1.1004
Sep	33,495	223,593	37,035	246,506	265	1.1057
Oct	35,215	258,808	38,782	285,288	265	1.1013
Nov	24,693	283,501	27,236	312,524	265	1.1030
Dec	34,889	318,390	39,043	351,567	265	1.1020

	Brine	Brine	Fresh	Fresh
	Yearly	Cumulative	Yearly	Cumulative
Year	BBLS	BBLS	BBLS	BBLS
2021	318,390	1,633,491	351,567	1,800,386

2021

Annual Monitor Well Analytical Data Results

Please see page 7 and **Appendix F** for results.

Injection Pressure Data

Injection pressure at the well (tubing) averages 260/PSI. The brine well casing pressure (brine to battery), averages about 35 PSI. The field operator checks the pressures daily and records them on the daily log.

Pipeline Hydrostatic Test Results

Service piping both to and from BW35 is 3" SDR11 high density poly. These 2 lines are tested accordingly to 160 psi. The feeder line (fresh water) runs due west from the fresh water well to BW35. Testing is accomplished by closing a steel ball valve on the well head, then allowing the freshwater pump to bring pressure up to 160 psi. The line is then isolated by valving installed at each end of the line. Pressure is held static on the line for 1 hour, during which time the entire line is visually inspected. The 3" SDR11 HD poly line leading from BW35 to the tankage facility, is tested in the same manner. A valve in the line is closed at the tankage facility. Then the freshwater line at the wellhead is allowed to pressure to 160 psi. A jumper line between the freshwater line and the brine line has been installed at BW35 well head to accomplish this. After brine line pressure has risen to 160 psi, the entire system is shut down, then the brine line is isolated by closing valving in place at each end of the line. Pressure is held for 1 hour, during which time the line is visually inspected. The freshwater line and the brine line run across land that is under the same ownership as Llano Disposal, LLC. Therefore, driving these lines for inspection during testing, and during normal operations, is frequent and at will. The lines between the storage tanks and the truck loading valves, are all 6" SDR11 high density poly. These lines carry normal head pressure of 0 psi (emptied tanks) to 8.4 psi (full tankage) but are virtually always under positive pressure. These lines are under continual live camera observation and viewed daily both by truckers and by Llano field personnel. All tanks are 16' fiberglass and are manifolded together with said 6" SDR11 HD poly line. Valving is installed on the outlet of each tank so that anyone, or all of the tanks can be closed off if needed. All valving and connections are plastic coated steel, stainless steel, poly, or fiberglass.

Pipeline Visual Inspections for leaks are done at minimum every other day, monitoring lines, joints, tanks, and recording volumes and pressure.

Quarterly Chemical Analysis

The full 2021 report can be viewed in APPENDIX F at the end of this report. No other analysis was done in 2021.



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

Analytical Results For:

LLANO DISPOSAL, LLC 125 W. ST. ANNE HOBBS NM, 88240

Project: SIRINGO ACS STATE #1 Project Number: U BAR BRINE Project Manager: ELIZABETH PICKEREL Fax To: NONE

Reported: 09-Feb-22 12:58

U BAR BRINE - FRESH WELL H220327-01 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Inorganic Compounds										
Chloride*	68.0		4.00	mg/L	1	2012501	GM	28-Jan-22	4500-CI-B	
pH*	7.31		0.100	pH Units	T	2012803	GM	28-Jan-22	150.1	
Temperature °C	20.9			pH Units	1	2012803	GM	28-Jan-22	150.1	
Specific Gravity @ 60° F	0.9984		0.000	[blank]	1	2012806	GM	28-Jan-22	SM 2710F	
TDS*	591		5.00	mg/L	1	2012426	AC	31-Jan-22	160.1	

Cardinal Laboratories

*=Accredited Analyte

PLENSE NOTE: Lability and Damages, Cardinal's lability and client's exclusive any other cause whatsover shall be deemed valved unless made in vertige including, without imitation, business interruptions, loss of use, or loss of profit dam in based upon yin of the above stated reasons or otherwise. Results relate only to the as client for analyses. All claims, including those for negli nt shall Cardinal be liable for incidental or consequential of the services hereunder by Cardinal, regardless of wh (30) In no evi

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Celey D. Keene, Lab Director/Quality Manager

2021



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

Analytical Results For:

LLANO DISPOSAL, LLC 125 W. ST. ANNE HOBBS NM, 88240 Project: SIRINGO ACS STATE #1 Project Number: U BAR BRINE Project Manager: ELIZABETH PICKEREL Fax To: NONE Reported: 09-Feb-22 12:58

U BAR BRINE - MONITOR WELL H220327-02 (Water)										
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Inorganic Compounds			Cardir	al Laborat	ories					
Chloride*	72.0		4.00	mg/L	1	2012501	GM	28-Jan-22	4500-CI-B	-
pH*	7.32		0.100	pH Units	1	2012803	GM	28-Jan-22	150.1	
Temperature °C	20.9			pH Units	1	2012803	GM	28-Jan-22	150.1	
Specific Gravity @ 60° F	0.9976		0.000	[blank]	1	2012806	GM	28-Jan-22	SM 2710F	
TDS*	603		5.00	mg/L	1	2012426	AC	31-Jan-22	160.1	

Cardinal Laboratories

*=Accredited Analyte

REAGE NOTE: Lability and barnages. Cardinal's lability and direct's exclusive remedy for any claim aniang, whether based in contract or tort, shull be limited to the amount paid by client for analyses. All claims, including those for negligence as any other cause whatbenever shall be deemed waived unless make in vetting and resolves by Cardinal weblin litter (20) days after completion of the applicable service. In no event shall Cardinal be liable for incidental to consequential damange including, without limitation, balance and use, or loss of portia incurred by client, its subsidianes, affiliates or successos atoming suct of or related to the performance of the services hereunder by Cardinal, regardless of whether su claim is based upon any of the above stated reasons or otherwise. Results robits only to the tamples including in the term for analysis in the term for analysis of an interview.

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Celey D. Keene, Lab Director/Quality Manager

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

Analytical Results For:

LLANO DISPOSAL, LLC 125 W. ST. ANNE HOBBS NM, 88240	Project: SIRINGO ACS STATE #1 Project Number: U BAR BRINE Project Manager: ELIZABETH PICKEREL Fax To: NONE					C	Reported: 09-Feb-22 12:58			
			U BAR BRI H220	NE - BRI 327-03 (Wa	NE WELI ter)	L				
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Inorganic Compounds			_		_					
Chloride*	156000		4.00	mg/L	1	2012501	GM	28-Jan-22	4500-CI-B	
pH*	7.09		0.100	pH Units	1	2012803	GM	28-Jan-22	150.1	
Temperature °C	20.8			pH Units	1	2012803	GM	28-Jan-22	150.1	
Specific Gravity @ 60° F	1.165		0.000	[blank]	1	2012806	GM	28-Jan-22	SM 2710F	
TDS*	268000		5.00	mg/L	1	2012805	AC	31-Jan-22	160.1	
			Green Ana	lytical Lab	oratories					
Total Recoverable Metals by I	CP (E200.7)				_			_		
Sodium*	89400		500	mg/L	500	B220346	AES	08-Feb-22	EPA200.7	

Cardinal Laboratories

*=Accredited Analyte

REASE NOTE: Lability and Damages. Contrinit's lability and direct's exclusive remedy for any claim anising, whether based in contract or tort, shall be limited to the answert paid by client for analyses. All claims, lixibiding those for negigence ar any other cause shutbower shall be deened waived unless make in witting and received by Candinal within thinty (20) days after coorplotion of the applicable service. In no avent, shall Candinal be lability for consequential damage including, whitto limitation, business informations. Analysis of the shutber of the services harband be the performance of the services harbander by Candinal, regardless of whether sau claim is based upon any of the above stated reasons or observice. Results relate above, this report data based above, this report data for her periodical actions.

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Celey D. Keene, Lab Director/Quality Manager

2021

Mechanical Integrity Test

A MIT was performed on 3/8/21: Llano scheduled, then ran a MIT on BW35 using a calibrated chart recorder with OCD witness (Hobbs OCD, George Bowers). Meter was within meter calibration date requirements (calibrated 8/2/17). The well was tested to regulation psig for the regulation period and exhibited no psig leak-off. See Chart No. 1 in **APPENDIX A**.

Deviations from normal Operations

1. Quarterly Chemical Analysis

Analysis was completed for the 3rd quarter only as the pandemic had everything chaotic and hard to deploy contractors. Normal operations with vendors, etc. were interrupted significantly.

Leaks and Spills Corrective Action Reports

There were no leaks, spills, or corrective action during this period.

Area of Review Update Summary

Please see below, the original AOR document that was submitted as part of the original application for BW-35. A current, location-by-location review of this brine permit has been completed, and it was found that there has been no oil or gas well development in the area since the original AOR document was created and submitted to NMOCD as part of the original brine permit.



Summary MITs, Surface Subsidence Surveys, Cavern Size & Shape, Cavern Volume and Geometry Measurements with Conclusion(s) and Recommendation(s)

A MIT was performed on 3/8/21: Llano scheduled, then ran a MIT on BW35 using a calibrated chart recorder with OCD witness (Hobbs OCD, George Bowers). Meter was within meter calibration date requirements (calibrated 8/2/17). The well was tested to regulation psig for the regulation period and exhibited no psig leak-off. See Chart No. 1 in **APPENDIX A**.

Please find the <u>Subsidence Report</u> in **APPENDIX C** at the end of this report, that was prepared for us by Pettigrew and Associates out of their Hobbs, NM office. The importance and purpose of the report is to closely monitor any geological shifting, either vertically or horizontally, in the earth surrounding the brine well. All parameters of Pettigrew's investigation are included in the report, along with a review of the monitoring points as installed and archived during the initial development of the well. The full report/plan is included in **APPENDIX C**.

A description of the <u>Cavern Size & Shape, Cavern Volume and Geometry Measurements</u>, are in **APPENDIX B** at the end of this report.

In <u>conclusion</u>, the operational history of BW35 could be described as "good", meaning that the well has performed very well in producing 10# brine. There are no recommendations at this time.

Injected Fluids to Brine Ratio

Total Brine for the year318,390Total Fresh for the year351,567Ratio of Fresh to Brine1.10

Summary of Major Facility Activities

Repairs were made to fiberglass tubing during this period (see **Appendix D & E)** and additional brine storage tanks were added (see **Appendix E)**.

Surface Subsidence Monitoring Plan Data Results

The annual plan survey was completed and is included in **Appendix C** at the end of this report.

Solution Cavern Characterization Data Results

Please see **APPENDIX B** at the end of this report for a full description.

APPENDIX A

MITs





Received by OCD: 3/8/2021 (1:49:0* 1M

Page 5 of 6

American Valve & Meter, Inc.

1113 W. BROADWAY

P.O. BOX 166 HOBBS, NM 88240

T0:McNabb

DATE: 2/9/21

This is to certify that:

I, Justin Harris, Technician for American Valve & Meter Inc. Has checked the calibration of the following instrument.

12"_Pressure recorder

Ser#202A-39965

at these points.

Pressure #

Temperature *or Pressure #

Test	Found	Left	Test	Found	Left
- 0	-	- 0	1.2		-
- 500	-	- 500	0 - /	-	-
- 700	-	- 700	(Q)	-	-
- 1000		- 1000	-	4	-
- 200	-	- 200	1040		-
- 0		- 0			

Remarks:

Signature: AL

APPENDIX B

Cavern Characterization

Cavern Characterization

For 2021, 351,567 bbls of fresh water have been injected into salt strata for the purpose of brine generation (14,765,814 gallons). Well production history has shown that the well reliably produces 10.0 + pound quality brine water. It therefore follows that each gallon of fresh water (testing 8.34 pounds per gallon) has dissolved 1.66 pounds of halite. By simple calculation, 24,571,251.20 pounds of halite have gone into solution during the past year. Halite has a SG of 2.17 (compared to fresh water), so is calculated and known to weigh 137.47 pounds per cubic foot. It follows then, that 178,302.54 cubic feet of halite has gone into solution. The amount of fresh water injected (351,567 bbls) as compared to the amount of brine produced (318,390 bbls) shows that water is being used to fill the cavity as the cavity increases in volume:

319,390 bbls / 351,567 bbls = 90.565% of water is being recovered as brine, 9.44 is being used to fill the brine cavity.

The grand total of halite that has gone into solution since operations began, is 913,329.79 cu ft.

Since it is impossible to know the exact dimensions of the cavity, some assumptions are reasonably made. OCD regulations require that fresh water be injected down a tubing string so that brine may be produced up the tubing/casing anulus. Therefore, brine generation begins at depth, and by the time water so circulated reaches that anulus, it has become saturated brine (or "10# brine"). It is logical then, that dissolution will be rapid at first, then tapers off as saturation is achieved. Such action would imply a cone shaped (inverted cone) cavity.

The teaching to calculate the volume of a truncated cone is :

Volume = $(1/3) \times pi (Rsq + (R \times r) + rsq) H$

Where :

- 1) r equals the radius of the small end cone diameter in feet
- 2) R equals the radius of the large end cone diameter in feet
- 3) Rsq is "R squared". rsq is "r squared".
- 4) H is height in feet from tubing depth to top of salt (casing shoe).

The illustration on the following page, with dimensions shown, satisfies the number of cubic feet of halite in solution since operations began, hence size of cavern.

2021

Cavern Size, Shape, & Volume Estimate



Estimated height (H) to Casing Shoe is 2043'

Estimated cavern floor diameter (D) is 92.97'

Estimated * Cavern Collapse Ratio is **.04** where 92.97/2043 = .045507

* Per the OCD, the Cavern Collapse Ratio is D/H

.

APPENDIX C

Subsidence Survey Results





DEFINING QUALITY SINCE 1965

Darr Angell, Llano Disposal LLC PO Box 190 Lovington, New Mexico, 88260 575-704-2777

10 February, 2022

RE: Survey Report Llano Well Subsidence Monitoring 2017.1005

100 E. Navajo Drive Suite 100 Hobbs NM 88240 T 575 393 9827 F 575 393 1543 Pettigrew.us



SUBSIDENCE MONUMENT SURVEY

On January 31, 2022 a field survey was conducted to observe positions of four subsidence monuments surrounding the Llano Wellhead located at N32°48'59.1", W103°19'08.02301". The well location and associated subsidence monuments can be accessed from NM 483 by turning East on the first road to the South of Buckeye Road, in Lea County.

The Google Earth image and the sketch below illustrate locations of the monuments.







MONUMENT DESCRIPTIONS

Each of the monuments observed are shown below with a description and images of the point.

CV0295 (PT 10)

NGS Control Point CV0295 is a brass U.S. Coast & Geodetic Survey Benchmark set in concrete projecting approximately one foot out of the ground. It is stamped with an X and with the year it was set as shown below, followed by the NGS datasheet:



Llano Wellhead (PT 104 & PT 204)

The existing wellhead was measured on the top of the First Flange leaving the wellhead on the horizontal plane. There is an X Filed into the metal that may fade with rust.





Subsidence Monument 1 (PT 103 & PT 203)

Subsidence Monument 1 is a Berntsen three quarter inch Aluminum Top Security Sleeve Monument. It consists of a rod driven till refusal into a pre drilled three-foot deep hole with a twelve inch diameter. The sleeved rod is encased in six-inch PVC filled with sand, then topped with a Datum Point and an Aluminum Floating Datum Cap. It is then capped with an Access Cover that must be removed with a flathead screw driver or similar tool. The Monument is pictured below:





Subsidence Monument 2 (PT 101 & PT 200)

Subsidence Monument 2 is a Berntsen three quarter inch Aluminum Top Security Sleeve Monument. It consists of a rod driven till refusal into a pre drilled three-foot deep hole with a twelve inch diameter. The sleeved rod is encased in six-inch PVC filled with sand, then topped with a Datum Point and an Aluminum Floating Datum Cap. It is then capped with an Access Cover that must be removed with a flathead screw driver or similar tool. The Monument is pictured below:





Subsidence Monument 3 (PT 100 & PT 202)

Subsidence Monument 3 is a Berntsen three quarter inch Aluminum Top Security Sleeve Monument. It consists of a rod driven till refusal into a pre drilled three-foot deep hole with a twelve inch diameter. The sleeved rod is encased in six-inch PVC filled with sand, then topped with a Datum Point and an Aluminum Floating Datum Cap. It is then capped with an Access Cover that must be removed with a flathead screw driver or similar tool. The Monument is pictured below:





Subsidence Monument 4 (PT 102 & PT 201)

Subsidence Monument 4 is a Berntsen three quarter inch Aluminum Top Security Sleeve Monument. It consists of a rod driven till refusal into a pre drilled three-foot deep hole with a twelve inch diameter. The sleeved rod is encased in six-inch PVC filled with sand, then topped with a Datum Point and an Aluminum Floating Datum Cap. It is then capped with an Access Cover that must be removed with a flathead screw driver or similar tool. The Monument is pictured below:





POINT COMPARISON REPORT FROM TRIMBLE BUSINESS CENTER

Project file data		Coordinate System	
Name:	Z:\2017.1005\Survey\Subsidence_Survey\F ield Data\Llano Subsidence_Re-	Name:	United States/State Plane 1983
Size:	72 KB	Zone:	New Mexico East 3001
Modified:	2/11/2022 10:12:46 AM (UTC:-7)	Datum:	NAD 1983 (Conus)
Time zone:	Mountain Standard Time	Global reference datum:	NAD83(2011)
Reference number:	2017.1005	Global reference epoch:	2010
Description:	Subsidence Monitoring	Geoid:	GEOID18 (Conus)
Comment 1:		Vertical datum:	
Comment 2:		Calibrated site:	Default
Comment 3:			

Additional Coordinate System Details

Local Site Settings			
Project latitude:	N32°48'59.08819"	Ground scale factor:	1.00015899506855
Project longitude:	W103°19'08.02316"	False northing offset:	0.000
Project height:	3747.225	False easting offset:	0.000

Point Comparison Report

Vertical sear Selected poi	ch: nts:	3.281 ft 12 / 13	Vertical tolerance: Point-pairs found:		0.164 ft * 5	
From Point	To Point	Δ Horizontal	North Azimuth	∆ Northing	Δ Easting	Δ Vertical
100	202	0.032 ft	345°00'23.9"	0.031 ft	-0.008 ft	0.018 ft
101	200	0.057 ft	50°32'34.8"	0.036 ft	0.044 ft	-0.021 ft
102	201	0.054 ft	30°37'43.7"	0.046 ft	0.027 ft	-0.021 ft
103	203	0.018 ft	123°47'23.3"	-0.010 ft	0.015 ft	-0.017 ft
104	204	0.033 ft	73°20'15.7"	0.010 ft	0.032 ft	-0.129 ft

7/15/2022 4:40:48 PM	Z:\2017.1005\Survey\Subsidence_Survey\Field	Trimble Business Center
	Data\Llano Subsidence_Re-Process.vce	
1		

The points 100–104 are the original set monitoring points and well from 10 April 2017 and the points 200–204 are the surveyed well and monitoring points from 31 January 2022. These points and their locations are described in the point report below.



NORTHING/EASTING POINT REPORT FROM TRIMBLE BUSINESS CENTER

Project file data		Coordinate System	
Name:	Z:\2017.1005\Survey\Subsidence_Survey\F	Name:	United States/State Plane 1983
Size:	72 KB	Zone:	New Mexico East 3001
Modified:	2/11/2022 10:12:46 AM (UTC:-7)	Datum:	NAD 1983 (Conus)
Time zone:	Mountain Standard Time	Global reference datum:	NAD83(2011)
Reference number:	2017.1005	Global reference epoch:	2010
Description:	Subsidence Monitoring	Geoid:	GEOID18 (Conus)
Project Manager:	B. Shafer	Vertical datum:	
Field Tech:	J. White	Calibrated site:	Default
Office Tech:	E. Roybal		

Additional Coordinate System Details

Local Site Settings			
Project latitude:	N32°48'59.08819"	Ground scale factor:	1.00015899506855
Project longitude:	W103°19'08.02316"	False northing offset:	0.000
Project height:	3747.225	False easting offset:	0.000

Point List						
ID	Northing	Easting	Elevation	Feature Code		
10	662239.176	852989.667	3818.510	7080 NGS CV0295		
100	660370.412	850231.907	3826.913	SUBSIDENCE MONUMENT 3		
101	661265.048	848986.845	3827.323	SUBSIDENCE MONUMENT 2		
102	660441.415	848433.712	3830.030	SUBSIDENCE MONUMENT 4		
103	659971.467	849135.890	3828.318	SUBSIDENCE MONUMENT 1		
104	660366.409	849101.962	3827.868	LLANO WELLHEAD		
200	661265.084	848986.889	3827.302	SUBSIDENCE MONUMENT 2		
201	660441.461	848433.740	3830.010	SUBSIDENCE MONUMENT 4		
202	660370.443	850231.899	3826.931	SUBSIDENCE MONUMENT 3		
203	659971.457	849135.904	3828.301	SUBSIDENCE MONUMENT 1		
204	660366.419	849101.993	3827.740	LLANO WELLHEAD		

7/15/2022 4:41:42 PM	Z:\2017.1005\Survey\Subsidence_Survey\Field	Trimble Business Center
	Data\Llano Subsidence_Re-Process.vce	

APPENDIX D

Sundries

Submit 1 Copy To Appropriate District Office District I – (575) 393-6161 1625 N. French Dr., Hobbs, NM 88240	State of New Mexico Energy, Minerals and Natural Resources	Form C-103 Revised July 18, 2013	
District II – (575) 748-1283 811 S. First St., Artesia, NM 88210 District III – (505) 334-6178	OIL CONSERVATION DIVISION	WELL API NO. 30-025-30701	
1000 Rio Brazos Rd., Aztec, NM 87410 District IV – (505) 476-3460 1220 S. St. Francis Dr., Santa Fe, NM 87505	1220 South St. Francis Dr. Santa Fe, NM 87505	5. Indicate Type of Lease STATE x FEE	
		6. State Oil & Gas Lease No. SLO Salt Lease Agreement	
SUNDRY NOTICE (DO NOT USE THIS FORM FOR PROPOSAL	S AND REPORTS ON WELLS	7. Lease Name or Unit Agreement Name	
DIFFERENT RESERVOIR. USE "APPLICAT PROPOSALS.)	ION FOR PERMIT" (FORM C-101) FOR SUCH	Siringo ACS State	
The second	Other BSW	8. Well Number 1	
2. Name of Operator Llano Disposal, LLC		9. OGRID Number 370661	
3. Address of Operator PO Box 190, Lovington NM 88260		10. Pool name or Wildcat BSW in Salado	
4. Well Location Unit LetterD: Section 26	660feet from theN line and Township 17S Range 36	660feet from theWline E NMPM County Lea	
11	1. Elevation (Show whether DR, RKB, RT, GR, etc., 831' MSL)	
		Management of the second se	

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

T.

NOTICE OF IN	TENTION TO:	SUBSEQUENT REPORT OF:		
PERFORM REMEDIAL WORK X TEMPORARILY ABANDON PULL OR ALTER CASING	PLUG AND ABANDON CHANGE PLANS MULTIPLE COMPL	REMEDIAL WORK COMMENCE DRILLING OPNS.	ALTERING CASING P AND A	
DOWNHOLE COMMINGLE CLOSED-LOOP SYSTEM OTHER:		OTHER:		
13 Describe proposed or comple	tod opportions (Classification 11			

 Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion.

It is our intention to rig up to pull production equipment, then repair unknown condition causing generated brine water to come up light. Suspect hole in tubing. Will RU as soon as equipment is available. Will notify NMOCD field agent via cell call or text.

Spud Date: I hereby certify mar are morma	Rig Release Da	ite: est of my knowledge and ocher	
SIGNATURE <u>Marv</u> Type or print name <u>Marv</u> For State Use Only	in Burrows E-mail address:	Agent for Llano _burrowsmarvin@gmail.com_	_DATE_1/19/21 _ PHONE:575-631-8067_
APPROVED BY: Conditions of Approval (if any):	TITLE		DATE

This 103 was filed to notify OCD that Llano planned to rig up and pull the well to investigate the reason for brine returning to the surface light (less than 10# per gallon).

Llano Disposal, LLC BW35 API 30-025-30701

Office	State of New Mexic	ю	Form C-103
<u>District 1</u> – (575) 393-6161 En	ergy, Minerals and Natural	Resources	Revised July 18, 2013
1625 N. French Dr., Hobbs, NM 88240 District II – (575) 748-1283			WELL API NO. 20.025.20701
811 S. First St., Artesia, NM 88210 O	IL CONSERVATION D	IVISION	5 Indicate Type of Lease
District III - (505) 334-6178 1000 Rio Brazos Rd. Aztec. NM 87410	1220 South St. Francis	s Dr.	STATE FEE
District IV – (505) 476-3460 1220 S. St. Francis Dr., Santa Fe, NM	Santa Fe, NM 8750	5	6. State Oil & Gas Lease No. SLO Salt Lease Agreement
SUNDRY NOTICES AN (DO NOT USE THIS FORM FOR PROPOSALS TO I DIFFERENT RESERVOIR USE "APPLICATION F	ID REPORTS ON WELLS DRILL OR TO DEEPEN OR PLUG F	BACK TO A	7. Lease Name or Unit Agreement Name
PROPOSALS.)		oon	Siringo ACS State
1. Type of Well: Oil Well Gas Wel	ll 🛛 Other BSW		8. wen Number 1
2. Name of Operator			9. OGRID Number
3. Address of Operator			10 Pool name or Wildcat
PO Box 250 Lovington NM 88260			BWS
4. Well Location			
Unit Letter D : 660 feet	from the N line and	660	feet from the W line
Section 26 Townshir	17 S Range 36 H		NMPM County Lea
11. Ele	evation (Show whether DR. RK	B. RT. GR. etc	c.)
3831'	MSL		
12 Check Appropr	iate Box to Indicate Natu	re of Notice	Report or Other Data
12. Check Appropr	fate Box to indicate Matu	ie of notice	, Report of Other Data
NOTICE OF INTENTI	ON TO:	SUE	BSEQUENT REPORT OF:
PERFORM REMEDIAL WORK D PLUG	AND ABANDON	EMEDIAL WO	RK 🛛 ALTERING CASING 🗌
TEMPORARILY ABANDON	GE PLANS 🔲 C	OMMENCE DF	RILLING OPNS. P AND A
PULL OR ALTER CASING MULTI		ASING/CEMEN	
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CLOSED-LOOP SYSTEM			
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This 103 was filed to notify OCD that the well had been pulled, and that the fiberglass portion of the tubing string had been lost (undoubtedly to falling salt). The lost tubing joints were replaced, the repaired string was ran back in without incident, then a MIT was scheduled as shown in the C103.

	-	State of N	lew Me	xico			Form	C-103
District I - (575) 393-6161	Energy.	, Minerals a	nd Natu	ral Resources	WELL AL	RE	evised July	18, 2013
District II – (575) 748-1283		ONGEDU	TION	DIVISION	30-025-30	0701		
811 S. First St., Artesia, NM 88210 District III – (505) 334-6178		220 South	St Eror	DIVISION	5. Indicat	e Type of Lease		
1000 Rio Brazos Rd., Aztec, NM 87410	12	Santa Fe	NM 87	7505	ST	ATE 🛛	FEE 🔲	
<u>District IV</u> – (505) 476-3460 1220 S. St. Francis Dr., Santa Fe, NM 87505		Santa I C,	14141 07	505	6. State C SLO Salt	Lease Agreemer	No. nt	
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1. Type of Well: Oil Well	Gas Well 🛛	Other BSW	/		8. Well N	lumber 1		
2. Name of Operator					9. OGRII	O Number		
Llano Disposal, LLC			_		370661	nama ar Wildoat		
PO Box 250 Lovington NM 8826	50				10. F001	BSW in S	alado	
4. Well Location		. C		1	(())	C . C . J		12
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These documents are presented in the order that they were scanned into OCD online files by OCD District 1 office. There were two notices of pending MIT testing. The first test was delayed by rain, muddy roads, and lack of available equipment.

	Submit 1 Copy To Appropriate District	State of New Mexico	Form C-103
	District I - (575) 393-6161	Energy, Minerals and Natural Resources	Revised July 18, 2013
	1625 N. French Dr., Hobbs, NM 88240		WELL APINO.
	811 S. First St., Artesia, NM 88210	OIL CONSERVATION DIVISION	5. Indicate Type of Lease
	District III – (505) 334-6178 1000 Rio Brazos Rd. Aztec. NM 87410	1220 South St. Francis Dr.	STATE FEE
	<u>District IV</u> – (505) 476-3460	Santa Fe, NM 87505	6. State Oil & Gas Lease No.
	1220 S. St. Francis Dr., Santa Fe, NM 87505		SID Sulting Adrenant
	SUNDRY NOTI	CES AND REPORTS ON WELLS	7. Lease Name or Unit Agreement Name
	(DO NOT USE THIS FORM FOR PROPOS	SALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A	S. Ass Sil
	PROPOSALS.)	ATION FOR PERMIT" (FORM C-101) FOR SUCH	Siringo ACS state
	1. Type of Well: Oil Well	Gas Well 🛛 Other BSW	8. WellNumber
	2, Name of Operator	110	9. OGRID Number
	2 Address of Operator		J7 De le I
	D. 2 DV 15 N L	1100 1110 Q81(0X	10. Pool name of windcat
	4 Well Location	gion Nurcesone o	DSW in strelo
	Linit Letter D	1010 D feet from the A	(10) fast from the 1, 1) line
	Section 21	Township 12 S Pange 310	S NMPM County Las
	section 26	11 Elevation (Show whether DR RKB RT GR e	County Co
		3831-1051	
	12. Check A	ppropriate Box to Indicate Nature of Notic	e, Report or Other Data
	NOTIOE OF IN		
	CLOSED-LOOP SYSTEM		
	OTHER:	OTHER:	
	 Describe proposed or compl 	eted operations. (Clearly state all pertinent details, a	and give pertinent dates, including estimated date
	of starting any proposed wo	rk). SEE RULE 19.15.7.14 NMAC. For Multiple C	completions: Attach wellbore diagram of
	proposed completion of reco	Supretion.	
	T_{1} is a		0.000
	IT. J OUR	intention torig WR	to full production
20			\cap
Du	irments in spect	tubing String Quiti	10 VII as Same
0		-1.3 JI.19. 000	u nu us suonas
(g)	Proset 'S Qual	able $bill$ 1	$1 \mathcal{A}_{0} \rightarrow \mathcal{N} \mathcal{C}_{1} \mathcal{A}_{1}$
U		usie: outil notify A) MUCD Field goons
11.	a Callo to	/L	gun
0 1		сс.	
	[
	Spud Date:	Rig Release Date:	
	Terre to the second		
	I hereby certify that the information a	above is true and complete to the best of my knowled	dge and belief.
	Q Pil		
	SIGNATURE	I TITLE BUING MONO	op for Una DATE 05-03-202
	- V - C		
	Type or print name L 1 Zabeth	Tickerel E-mail address: Service, la	mobine @ PHONE: 375-605-649
	For State Use Only		Smail. lom
	APPROVED BY:	TITI F	DATE

The well was not pulled in a timely manner because of heavy rains and muddy access roads. A subsequent 103 was filed to update OCD District 1 office.

	e en la service presidente	
Submit 1 Copy To Appropriate District	State of New Mexico	Form C 103
Office	Energy Minoral and Material Day	Powied July 18, 2013
<u>District 1</u> – (575) 393-6161	Energy, Minerals and Natural Res	WELL ADINO
1625 N. French Dr., Hobbs, NM 88240		30-635-30701
811 S. First St., Artesia, NM 88210	OIL CONSERVATION DIVIS	SION 5. Indicate Type of Lease
District III - (505) 334-6178	1220 South St. Francis Dr.	STATE STATE
1000 Rio Brazos Rd., Aztec, NM 87410	Santa Fe, NM 87505	6 State Oil & Coal Lange No.
1220 S. St. Francis Dr., Santa Fe, NM		0. State Off & Gas Lease No.
87505		SID Jaltlegse Agreement
SUNDRY NOT	CES AND REPORTS ON WELLS	7. Lease Name or Unit Agreement Name
(DO NOT USE THIS FORM FOR PROPO	SALS TO DRILL OR TO DEEPEN OR PLUG BACK	TOA SI NOSS A
DIFFERENT RESERVOIR. USE "APPLIC	CATION FOR PERMIT" (FORM C-101) FOR SUCH	Siringo ALS Hate
1 Type of Well: Oil Well	Gas Well PT Other RS	8. Well Number
2. Name of Operator		0 OGPID Number
2. Name of Operator Di Store	21/10	27 210/0
3 Address of Operator		10. Pool name or Wildcat
20 Radicess of Operator	1110 110 500100	DE L'O Sala
FU DOX 250 C	ovington up or a dec	BJWIN JARdo
4. Well Location		
Unit Letter V :	QQ() feet from the $()$ line	he and 000 feet from the 100 line
Section 01 10	Township 17 S Range	3105 NMPM County / PO
and a later	11 Elevation (Show whether DR RKB R	T GR etc.)
	38 31' ~5/~	1, ON, C.C.)
		DI DI DI
12. Check A	Appropriate Box to Indicate Nature o	f Notice, Report or Other Data
NOTICE OF IN	TENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK	PLUG AND ABANDON	
TEMPORARILY ABANDON	CHANGE PLANS	IENCE DRILLING OPNS. P AND A
PULL OR ALTER CASING	MULTIPLE COMPL CASIN	G/CEMENT JOB
OTHER:		R: 🗌
13 Describe proposed or comp	leted operations (Clearly state all pertinent	details, and give pertinent dates, including estimated date
of starting any proposed w	ork) SEE RULE 19 15 7 14 NMAC For M	lultiple Completions: Attach wellbore diagram of
proposed completion or rec	ompletion.	
P. P. 000 000 P. 000 000 000 000 000 000	T. T. S.	
_	allon la Cici	O TO DUDO III
TH'S ALL'A	Ention to right	ip the productio
IT IS OUT I'	9	1.55
	- thing St	and his of the sources
buildenat and r	spect lubing SIN	ing. Will higher as
ou inverse are in		. 1.0.0
	· · · · · · · · · · · · · · · · · · ·	L (1) II ANTICU NITIULD
Sonnas Kaule	ment ()) Quallab	le. com with joint of
Soon - Co - cyulin		0
CILL	O DA ON LINI	
FIDD agent Uia	Call OL TERE.	
Spud Date:	Rig Release Date:	
I haraby cartify that the information	above is true and complete to the best of my	Imovelades and halisf
Thereby certify that the information	above is the and complete to the best of my	knowledge and benef.
SIGNATURE CO'ALCO	TITLE Do' - A	Proprint 05-27. Juli
SIGNATURE TROPES	IIILE DA Nelle	reger torug ho DATE U JOT dod
Time or print news F (13 - least	P'r Kacal Friday Sa	a'calle burg Onton 515/05/190
Type or print name CI, Tabet	h Chere E-mail address: Den	VICE, Mano DI ME PHONE: ST SOSEY 10
For State Use Only		gmail.com
APPROVED BY:	TITLE	DATE
Conditions of Approval (if any):		

This is a second 103 notice of Llano's intentions to rig up and pull the well to investigate the cause of light brine circulation to surface.

.

	Enter L'Alexence automation	and the second se
Submit 1 Copy To Appropriate District Office	State of New Mexico	Form C-103
District I – (575) 393-6161 1625 N. French Dr., Hobbs, NM 88240	Energy, Minerals and Natural Resources	Revised July 18, 2013
District II – (575) 748-1283 811 S. First St., Artesia, NM 88210	OIL CONSERVATION DIVISION	30-02530701
District III – (505) 334-6178 1000 Rio Brazos Rd., Aztec, NM 87410	1220 South St. Francis Dr.	5. Indicate Type of Lease STATE X FEE
District IV – (505) 476-3460 1220 S. St. Francis Dr., Santa Fe, NM	Santa Fe, NM 87505	6. State Oil & Gas Lease No.
87505 SUNDRY NOT	ICFS AND REPORTS ON WELLS	7 Lesse Name or Unit Agreement Name
(DO NOT USE THIS FORM FOR PROPO DIFFERENT RESERVOIR. USE "APPLIP	SALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A CATION FOR PERMIT" (FORM C-101) FOR SUCH	S'ADD ACS St
PROPOSALS.) 1. Type of Well: Oil Well	Gas Well D Other BSW	8. Well Number 1
2. Name of Operator Lan	D'songel J. LC	9. OGRID Number
3. Address of Operator	La la gerde	10. Pool name or Wildcat
4. Well Location	Usuington un ooder	0 BOW (B(ine)
Unit Letter 1 :	<u>bleD</u> feet from the <u>U</u> line and <u>L</u>	100 feet from the line
Section 2	11. Elevation (Show whether DR, RKB, RT, GR, e	NMPM County Lea
	3831'MOL	
12. Check A	Appropriate Box to Indicate Nature of Notic	ce, Report or Other Data
	ITENTION TO: SU PLUG AND ABANDON REMEDIAL WO	
TEMPORARILY ABANDON	CHANGE PLANS COMMENCE D MULTIPLE COMPL CASING/CEMP	DRILLING OPNS. P AND A
	00	
OTHER: 13 Describe proposed or comp	leted operations. (Clearly state all pertinent details.	and give pertinent dates, including estimated date
of starting any proposed we proposed completion or rec	ork). SEE RULE 19.15.7.14 NMAC. For Multiple (Completions: Attach wellbore diagram of
Perearlier Clos	s notices, we rigged up	p to repair damaged fiberglass
tubing. Accomplished re	pairs, then han a Yhour	MFT test in Coordination
W/MR. Frotner/OCD	, HOBBS). Please Find	gressurchart & Current
Wellbore Schemati	c attached.	
Courd Data	Dia Delease Date:	
Spud Date:	Rig Release Date.	
I hereby certify that the information	above is true and complete to the best of my knowle	edge and belief.
SIGNATURE EFfold	TITLE Brine (MSI	DATE 03-08/2021
Type or print name £ 1: 20 be 1 For State Use Only	- ?' clerel E-mail address: Service.	la no, bine phone: 575-605-6490
APPROVED BY: Conditions of Approval (if any):	TITLE	DATE



Per earlier 103 notice, Llano rigged up on the well to investigate the cause of light brine circulation to surface. It was discovered that all but 2 joints of 2 7.8" fiberglass tubing had been lost to salt sluffing. The lost tubing was replaced, and the repaired string was run back into the well.





Llano Disposal, LLC BW35 API 30-025-30701

Page 5 of 6

Received by OCD: 3/8/2021 (1:49:0* 1M

American Valve & Meter, Inc.

1113 W. BROADWAY

P.O. BOX 166 HOBBS, NM 88240

T0:McNabb

DATE: 2/9/21

This is to certify that:

I, Justin Harris, Technician for American Valve & Meter Inc. Has checked the calibration of the following instrument.

12"_Pressure recorder

Pressure #

Ser#202A-39965

Temperature *or Pressure #

at these points.

Test	Found	Left	Test	Found	Left
- 0	-	- 0			-
- 500	-	- 500		-	-
- 700	-	- 700	. Q		-
- 1000		- 1000	-	4	-
- 200	-	- 200	L CAL	1 4	-
- 0	1.4	- 0			

Remarks:

Signature:

Per earlier 103 notice, Llano rigged up on the well to investigate the cause of light brine circulation to surface. It was discovered that all but 2 joints of 2 7.8" fiberglass tubing had been lost to salt sluffing. The lost tubing was replaced, and the repaired string was run back into the well.

The above pressure chart was run after the well was pulled. Of note is that all required MITs tests that have been performed on this well were with OCD witness. None of the tests exhibited any indication of cavern, casing, or wellhead leakage.

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2021

APPENDIX E

Well Diagrams

Llano Disposal, LLC BW35 API 30-025-30701



Llano Disposal, LLC BW35 API 30-025-30701

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APPENDIX F

Chemical Analysis



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

February 09, 2022

ELIZABETH PICKEREL

LLANO DISPOSAL, LLC

125 W. ST. ANNE

HOBBS, NM 88240

RE: SIRINGO ACS STATE #1

Enclosed are the results of analyses for samples received by the laboratory on 01/27/22 14:50.

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 <u>www.tceq.texas.gov/field/qa/lab_accred_certif.html</u>.

Cardinal Laboratories is accreditated 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. Kune

Celey D. Keene Lab Director/Quality Manager



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

Analytical Results For:

LIANO DISPOSAL, LLC 125 W. ST. ANNE HOBBS NM, 88240	Pr Pro	oject Number: oject Manager: Fax To:	U BAR BRINE ELIZABETH PICKEREL NONE	Reported: 09-Feb-22 12:58
Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
U BAR BRINE - FRESH WELL	H220327-01	Water	27-Jan-22 14:00	27-Jan-22 14:50
U BAR BRINE - MONITOR WELL	H220327-02	Water	27-Jan-22 14:05	27-Jan-22 14:50
U BAR BRINE - BRINE WELL	H220327-03	Water	27-Jan-22 14:14	27-Jan-22 14:50

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Page 2 of 12

Llano Disposal, LLC BW35 API 30-025-30701 Annual Report



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

Analytical Results For:

LLANO DISPOSAL, LLC 125 W. ST. ANNE HOBBS NM, 88240			Project Nu Project Mar Project Mar Fi	roject: SIR mber: U B nager: ELIZ ax To: NOM	INGO ACS AR BRINE ZABETH PI NE	STATE #1 CKEREL		C	Reported: 09-Feb-22 12:	58
)	U BAR BRI H220	NE - FRE: 327-01 (Wa	SH WEL ter)	L				
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	nal Laborat	ories					
Inorganic Compounds										
Chloride*	68.0		4.00	mg/L	1	2012501	GM	28-Jan-22	4500-CI-B	
pH*	7.31		0.100	pH Units	1	2012803	GM	28-Jan-22	150.1	
Temperature °C	20.9			pH Units	1	2012803	GM	28-Jan-22	150.1	
Specific Gravity @ 60° F	0.9984		0.000	[blank]	1	2012806	GM	28-Jan-22	SM 2710F	
TDS*	591		5.00	mg/L	1	2012426	AC	31-Jan-22	160.1	

mg/L

1

2012426

AC

31-Jan-22

160.1

5.00

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Di any other cause whatsoever sh es. All claims, including those for neglige be liable for incidental or consequential any other cause whatsoever shall be d including, without limitation, business inte-claim is based upon any of the above stated rea ial dan (30) In no e ed to the peri for incidental or o by Cardinal, regard lass ing out of or ess of wh

Celleg Z. Keine -

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 12



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

Analytical Results For:

LLANO DISPOSAL, LLC 125 W. ST. ANNE HOBBS NM, 88240	Project: SIRINGO ACS STATE #1 Project Number: U BAR BRINE Project Manager: ELIZABETH PICKEREL Fax To: NONE							(Reported: 09-Feb-22 12:	58
		U	BAR BRIN H220	E - MONI 327-02 (Wa	TOR WE ter)	LL				
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					-
Inorganic Compounds										
Chloride*	72.0		4.00	mg/L	1	2012501	GM	28-Jan-22	4500-CI-B	-
oH*	7.32		0.100	pH Units	i.	2012803	GM	28-Jan-22	150.1	
Temperature °C	20.9			pH Units	1	2012803	GM	28-Jan-22	150.1	
Specific Gravity @ 60° F	0.9976		0.000	[blank]	a –	2012806	GM	28-Jan-22	SM 2710F	
FDS*	603		5.00	mg/L	1	2012426	AC	31-Jan-22	160.1	

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REASE NOTE: Liability and Damages. Condinal's lability and client's exclusive remedy for any claim analog, whether based in contract or tort, shall be limited to the amount paid by client for analyzes. All claims, including those for negleptics are any other cause whitescree shall be deemed waved unless made in writing and resolved by Clinical within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without initiation, business interruptions, loss of use, or loss of profiles incurred by client, its subsidiaries, affiliase or excession arising and to or related to the performance of the sarvices hereunder by Clinical, regurdees of whether sus finite based could relate the initiation. This incort all node periodical cliential liable clientifies incurred.

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Celey D. Keene, Lab Director/Quality Manager

Page 4 of 12



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

Analytical Results For:

LLANO DISPOSAL, LLC 125 W. ST. ANNE HOBBS NM, 88240

Project: SIRINGO ACS STATE #1 Project Number: U BAR BRINE Project Manager: ELIZABETH PICKEREL Fax To: NONE

Reported: 09-Feb-22 12:58

U	BAR	BRINE -	BRINE	WELL
		1220227 0	2 (Watan	1

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Inorganic Compounds				1000		-	_			
Chloride*	156000		4.00	mg/L	1	2012501	GM	28-Jan-22	4500-Cl-B	
pH*	7.09		0.100	pH Units	1	2012803	GM	28-Jan-22	150,1	
Temperature °C	20.8			pH Units	1	2012803	GM	28-Jan-22	150.1	
Specific Gravity @ 60° F	1.165		0.000	[blank]	a, i	2012806	GM	28-Jan-22	SM 2710F	
TDS*	268000		5.00	mg/L)	2012805	AC	31-Jan-22	160.1	

Green Analytical Laboratories

Total Recoverable Metals	by ICP (E200.7)			_					
Sodium*	89400	500	mg/L	500	B220346	AES	08-Feb-22	EPA200.7	

Cardinal Laboratories

*=Accredited Analyte

ent for analyses. All claims, including those for negligence shall Cardinal be liable for incidental or consequential damag the a tin thirty (30) days sidiaries, affiliates or ion of the applicab sing out of or rela ble service. In no eve lated to the performance for incidental or consequential by Cardinal, regardless of whe loss of the services ed upon any of the at

Celleg Interne -

Celey D. Keene, Lab Director/Quality Manager

Page 5 of 12



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

Analytical Results For:

LLANO DISPOSAL, LLC 125 W. ST. ANNE HOBBS NM, 88240		Project N Project M	Project: 9 lumber: 1 anager: 1 Fax To: 1	SIRINGO AG J BAR BRIN ELIZABETH NONE	CS STATE IE PICKEREL	#1		09-	Reported: Feb-22 12	2:58
	Ino	rganic Con	npounds	- Quality	Control					
		Cardi	nal Lab	oratories						
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Límits	RPD	RPD Limit	Notes
Batch 2012426 - Filtration										
Blank (2012426-BLK1)				Prepared:	24-Jan-22 A					
ГDS	ND	5.00	mg/L							-
LCS (2012426-BS1)				Prepared:	24-Jan-22 A	nalvzed: 2	5-Jan-22			
rds	541		mg/L	500		108	80-120			
Duplicate (2012426-DUP1)	Sou	rce: H220238	3-06	Prepared:	24-Jan-22 A	nalvzed: 2	5-Jan-22			
rds	256000	5.00	mg/L	-	267000			4.42	20	_
Batch 2012501 - General Prep - Wet Chem										
Blank (2012501-BLK1)				Prepared: 2	25-Jan-22 A	nalvzed: 2	6-Jan-22			
Chloride	ND	4.00	mg/L							
LCS (2012501-BS1)				Prepared:	25-Jan-22 A	nalvzed: 2	6-Jan-22			
Chloride	100	4.00	mg/L	100		100	80-120			
LCS Dup (2012501-BSD1)				Prepared: 2	25-Jan-22 A	nalvzed: 2	6-Jan-22			
Chloride	100	4.00	mg/L	100		100	80-120	0.00	20	
Batch 2012803 - General Prep - Wet Chem										
LCS (2012803-BS1)				Prepared &	Analyzed	28-Jan-22		-		
ън	7.03	-	pH Units	7.00		100	90-110			
Duplicate (2012803-DUP1)	Sou	rce: H220327	-01	Prepared &	Analyzed:	28-Jan-22				
ы	7.35	0.100	pH Units		7.31			0.546	20	
Temperature °C	20.9		pH Units		20.9			0.00	200	

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Celey D. Keene, Lab Director/Quality Manager

Page 6 of 12



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

Analytical Results For:

LLANO DISPOSAL, LLC 125 W. ST. ANNE HOBBS NM, 88240		P Project Nu Project Ma F	roject: umber: nager: ax To:	SIRINGO AG U BAR BRIN ELIZABETH NONE	cs state Ie Pickerel	#1		1 09-	Reported: Feb-22 12	2:58
	Ino	rganic Com Cardir	pound	s - Quality	Control					
	_	Carun	Iai Lai	Joi atories						_
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2012805 - Filtration		_								
Blank (2012805-BLK1)				Prepared:	28-Jan-22 A	nalvzed: 3	1-Jan-22			
TDS	ND	5.00	mg/L							
LCS (2012805-BS1)				Prepared:	28-Jan-22 A	nalvzed: 3	1-Jan-22			
TDS	519		mg/L	500		104	80-120			
Duplicate (2012805-DUP1)	Sou	rce: H220327-	03	Prepared:	28-Jan-22 A	nalyzed: 3	I-Jan-22			
TDS	276000	5.00	mg/L		268000			3.07	20	
Batch 2012806 - General Prep - Wet Chem	-									
Duplicate (2012806-DUP1)	Sou	rce: H220327-	-01	Prepared &	Analyzed	28-Jan-22				
Specific Gravity @ 60° F	1.002	0.000	[blank]		0.9984		-	0.378	20	_

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Celey D. Keene, Lab Director/Quality Manager

Page 7 of 12

Llano Disposal, LLC BW35 API 30-025-30701 Annual Report



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

Analytical Results For:

LLANO DISPOSAL, LLC 125 W. ST. ANNE HOBBS NM, 88240		P Project Nu Project Ma F	roject: umber: nager: ax To;	SIRINGO AC U BAR BRIN ELIZABETH NONE	cs state Ie Pickerel	#1		09-	Reported: Feb-22 1	2:58
	Total Recove	rable Metals Green Ana	s by IC lytical	CP (E200.7) l Laborato	- Quality ries	Control				
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B220346 - Total Rec. 200.7/2	00.8/200.2									
Blank (B220346-BLK1)				Prepared: ()7-Feb-22 A	nalvzed: 0	8-Feb-22			
Sodium	ND	1.00	mg/L							
LCS (B220346-BS1)				Prepared: (7-Feb-22 A	nalvzed: 0	8-Feb-22			
Sodium	1.58	1.00	mg/L	1.62		97.3	85-115			
LCS Dup (B220346-BSD1)				Prepared: 0)7-Feb-22 A	analyzed: 0	8-Feb-22			
Sodium	1.52	1.00	mg/L	1.62		010	85-115	3.52	20	

1.52 1.00 mg/L 1.62 85-115 93.9 3.52 20

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tort, shall be limited to the answert paid by client for analyses. All claims, including those for negligence is plation of the applicable service. In no event shall Caudinal be lable for incidental or consequential damage atting out of or related to the performance of the services horework by Caudinal, repertiess of whether ne ultith writing report of Caudinal Laborations. PLEASE NOTE: Liability and Damages. any other cause whatsoever shall be de le in writing an loss of profits ite only to the or tort, shall be limi (30) days after con affiliates or successors including, without limitation, business interruptions, claim is based upon any of the above stated reasons or o is, loss of use, or

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Celey D. Keene, Lab Director/Quality Manager

Page 8 of 12



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

Notes and Definitions

Analyte NOT DETECTED at or above the reporting limit
Relative Percent Difference
Samples not received at proper temperature of 6°C or below.
Insufficient time to reach temperature.
Chloride by SM4500CI-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

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PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remoty for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including these for negloprice and any other cause whatcower shall contract and by dense what we wanted withing the above to the splitcable service. In no events, shall cardinal be limited to the same interruption, loss or loss of tensor of posts, policies of posts, policies, and policies, and analyse and complete or or relates to the post-manage of the splitcable services. In no events, shall cardinal be limited and or consequential canange including whether services are consequential canange including whether services in the services in the services hereunder by Cardinal, regardless of whether services in the services the services. This report shall not be reproduced except in full with writes approval of Cardinal Laboratories.

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Celey D. Keene, Lab Director/Quality Manager

Page 9 of 12





Page 10 of 12

Page 55 of 61



Page | 55

Page 11 of 12



Page 12 of 12

Released to Imaging: 7/19/2022 3:50:56 PM

APPENDIX G

Certification

Llano Disposal, LLC BW35 API 30-025-30701

<u>Llano Disposal, LLC</u> certifies that continued salt solution mining will not cause cavern collapse, surface subsidence, property damage, or otherwise threaten public health and the environment, based on geologic and engineering data provided herein.

Darr Angell

.

Name

Owner/Permittee Holder

Title

Signature

4/26/22

Date

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

COMMENTS

Operator:	OGRID:
LLANO DISPOSAL, L.L.C.	370661
P.O. Box 250	Action Number:
Lovington, NM 88260	126573
	Action Type:
	[UF-DP] Discharge Permit (DISCHARGE PERMIT)

COMMENTS

Created By	Comment	Comment Date
cchavez	Annual Report 2021	7/19/2022

COMMENTS

Page 60 of 61

Action 126573

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

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

CONDITIONS

Page 61 of 61

Action 126573

CONDITIONS

Operator:	OGRID:
LLANO DISPOSAL, L.L.C.	370661
P.O. Box 250	Action Number:
Lovington, NM 88260	126573
	Action Type:
	[UF-DP] Discharge Permit (DISCHARGE PERMIT)

CONDITIONS

l	Created By	Condition	Condition Date
	cchavez	General Conditions of Approval included in E-Permitting: 1) Environmental Analytical Laboratory Data Results Sheet "Sample ID" descriptors based on permit should include: MW (GW)- Annually, Injection Fresh H2O - Quarterly and Brine- Quarterly. Also, the complete QA/QC laboratory analytical laboratory report for all analytical data shall be provided in each annual report. 2) AOR should include all wells within ½ mile of the brine well on a map to scale. 3) Appendix A MIT Chart(s) shall include Chart Recorder Calibration Sheet(s) with last date of calib., calib. results, spring weight, and clock setting. 4) Appendix B "Right Circular Cone" volume algorithm "H" estimated cavern height value shall be the base of cavern depth minus the casing shoe depth value. A depth of salt cavern sounding shall be performed during well workovers to determine cavern height in algorithm calculations. 5) Appendix F permit sample frequency, sample parameters for MW (groundwater), injected freshwater, and b	7/19/2022