BW-035

ANNUAL REPORT

2018

Annual Class III
Well Report
Llano Disposal, LLC
BW-35

API - 30-25-30701

Submitted by: Laura Angell, 4/26/22

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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.

Changes to well construction: No changes were made to well construction as would concern the 2018 annual report. At a later time, the dual port Baker packer was omitted. Specifics will be included in later reports.

Changes to tankage/loading facility: During the time period that would include the 2018 report, some aspects of the facility were still under construction, so there are no changes to report for that period. See **Appendix E** for a well 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

2018

	Brine	Brine	Fresh	Fresh	
	Monthly	Cumulative	Monthly	Cumulative	9
Month	BBLS	BBLS	BBLS	BBLS	PSI
Jan	51,240	51,240	56,374	56,374	265
Feb	40,748	91,988	44,823	101,197	265
Mar	42,350	134,338	46,606	147,803	265
Apr	28,715	163,053	31,842	179,645	265
May	25,915	188,968	28,589	208,235	265
Jun	28,572	217,540	31,463	239,698	265
Jul	37,135	254,675	40,960	280,658	265
Aug	45,887	300,562	50,880	331,538	265
Sep	42,113	342,675	46,387	377,925	265
Oct	40,160	382,835	44,188	422,113	265
Nov	38,910	421,745	42,836	464,949	265
Dec	48,960	470,705	53,856	518,805	265

	Brine	Brine	Fresh	Fresh
	Yearly	Cumulative	Yearly	Cumulative
Year	BBLS	BBLS	BBLS	BBLS
2017	56,721	56,721	62,499	62,499
2018	470,705	527,426	518,805	581,304

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Annual Monitor Well Analytical Data Results

Please see page 7 of this report for deviations.

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.

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Quarterly Chemical Analysis

The full report can be viewed in **APPENDIX F** at the end of this report.



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

Analytical Results For:

LLANO BRINE DARR ANGELL P. O. BOX 250 LOVINGTON NM, 88260

Fax To:

Received: Reported: Project Name: Project Number:

Project Location:

04/26/2018 04/27/2018 WATER SAMPLES NONE GIVEN LEA COUNTY, NM Sampling Date: Sampling Type: Sampling Condition:

Sample Received By:

04/26/2018 Water ** (See Notes) Jodi Henson

Sample ID: FRESH WATER (H801168-01)

Chloride, SM4500CI-B	mg	/L	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	128	4.00	04/27/2018	ND	100	100	100	0.00	

Sample ID: BRINE WATER (H801168-02) Chloride, SM4500CI-B

			Analyzo	u by. Ck					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	188000	4.00	04/27/2018	ND	100	100	100	0.00	

Cardinal Laboratories

*=Accredited Analyte

within thirty (30) days subsidiaries, affiliates or

Ceder it treens -

Celey D. Keene, Lab Director/Quality Manager

Mechanical Integrity Test

A MIT was performed on 9/15/17: 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**.

Another MIT was ran on 7/2/18: A MIT was ran on the brine line used to carry brine from BW35 well to the tankage facility. The line was <u>disconnected and isolated</u> at each end, then was pressured to 195 psig. After the regulation test period, the observed test pressure had risen to 205 psig. Observed air temperature was 104 degrees F on a clear, windless day. Line is black poly, and is exposed to air temperature, and sunlight. See Chart No. 2 in **APPENDIX A**.

Deviations from normal Operations

1. Annual Monitor Well Analytical Data

There was no data for this period since the well had been in operation for a short period of time.

2. Quarterly Chemical Analysis

Analysis was done only for the first quarter of this year.

3. Surface Subsidence Monitoring Plan Data Results

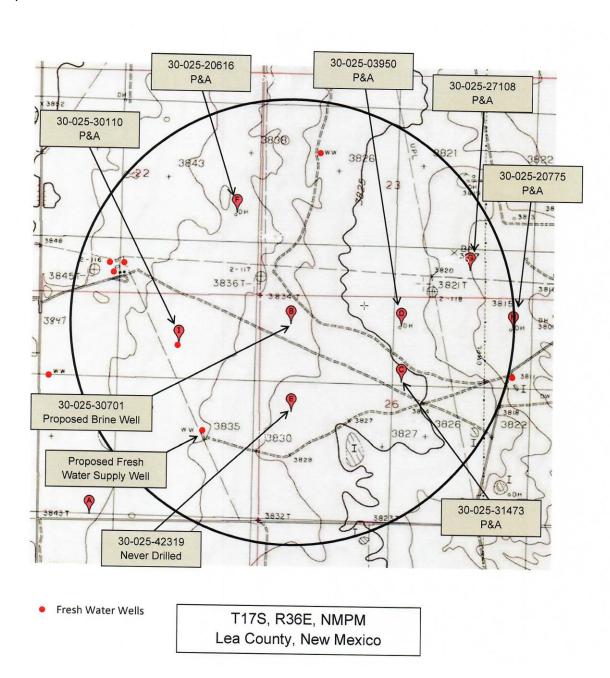
Other than the initial survey and plan creation, there was no other survey done, since the well had only been in operation for a very short period.

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.



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

There were two <u>MITs</u> issued thru 12/31/18. A MIT was performed on September 15, 2017 and witnessed by OCD after the installation of permanent injection equipment. There was no leak off. Another MIT was performed in July 2018 for Llano verification purposes. There was no leak off. See Chart No. 2 in **APPENDIX A** at the end of this report.

Please find the <u>Subsidence Plan and 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 year 470,705

Total Fresh for the year 518,805

Ratio of Fresh to Brine 1.10

Summary of Major Facility Activities

There were no major activities during this period. However, this is the first annual report for the well. All the startup C103s and their descriptions are included in **Appendix D** at the end of this report.

Surface Subsidence Monitoring Plan Data Results

The initial plan and survey were done and are 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.

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APPENDIX A

MITs

Chart No. 1

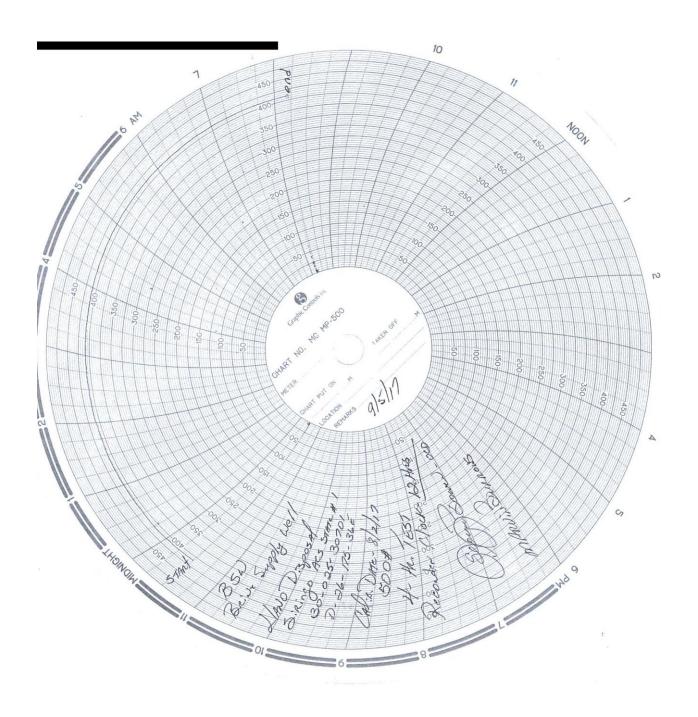
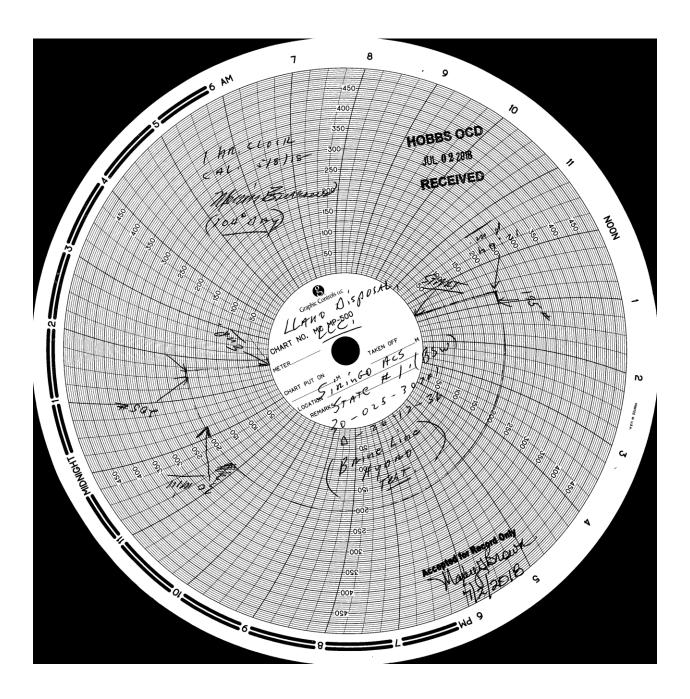


Chart No. 2



APPENDIX B

Cavern Characterization

Cavern Characterization

For 2018, 518,805 bbls of fresh water have been injected into salt strata for the purpose of brine generation (21,789,816 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, 36,171,094.6 pounds of halite have gone into solution this 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 263,119.91 cubic feet of halite has gone into solution this year. The amount of fresh water injected (518,805 bbls) as compared to the amount of brine produced (470,705 bbls) shows that water is being used to fill the cavity as the cavity increases in volume:

470,705 bbls / 518,805 bbls = 90.73% of water is being recovered as brine, 9.27 is being used to fill the brine cavity.

Total cu ft of salt that has gone into solution since operation of BW35 began, is 295,087.33 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 =
$$(1/3)$$
 x pi $(Rsq + (Rxr) + rsq)$ 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 depth in feet from tubing depth to top of salt (casing shoe).

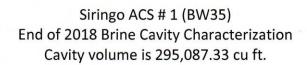
Fresh water used at BW35 fo9r the purpose of brine generation is known to weigh 8.4 lbs. per gallon. Therefore 1.6 lbs. of salt must be taken up by each gallon of fresh water so injected to result in 10 ppg brine water, which is the known industry standard. It follows then that each barrel of brine water (one API barrel = 42 gallons) contains 42×1.6 lbs. of salt, or 67.2 lbs. of salt. One cubic foot of salt weights 137.47 lbs. Continuing, the cubic feet of salt consumed in one year is equal to the total amount of salt that is calculated to have gone into solution divided by 137.47 lbs.

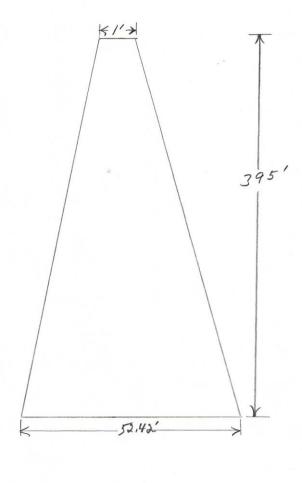
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The illustration on the following page, with dimensions shown, satisfies the number of cubic feet of halite in solution since operations began, hence size of cavern.

Cavern Size, Shape, & Volume Estimate





Estimated height (H) to Casing Shoe is 2043'

Estimated cavern floor diameter (D) is 52.42'

Estimated * Cavern Collapse Ratio is .03 where 52.42/2043 = .025658

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

APPENDIX C

Subsidence Survey Results





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

10 April, 2017

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

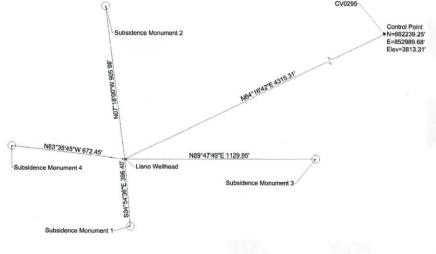


SUBSIDENCE MONUMENT SURVEY

On March 9, 2017 a field survey was conducted to set and observe positions of four new 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.







The positions for the four set monuments were placed based on a conversation with Carl Chavez from the Energy Minerals and Natural Resources Department. The discussion was to set at least three monuments at varying distances from the well head. The distances were to be kept to a minimum of 400 feet and a maximum of 1200 feet. The four monuments were set at differing distances in the given interval and in 4 separate directions.

This survey was conducted using Trimble R8 GNSS Receivers and a Trimble DiNi digital level. The GNSS Receivers were used to establish the locations of the monuments and the well head through Differential GNSS observations. In an effort to tie into an existing published control point, the National Geodetic Survey website was reference to find the nearest published benchmark. Vertical Control point CV0295 is located approximately 4,300 feet northeast of the well site. Once the monument was recovered, a GNSS base was setup over the point and static data was observed for over 5 hours. The data was then submitted to an online positioning service to firmly establish the horizontal coordinates: Latitude N32°48'40.92945", Longitude W103°19'53.77433". The published elevation of 3813.31 was held.

While the published/accepted elevation for the point was used. The Trimble DiNi was then used to accurately establish the elevation of the monuments and the wellhead in relation to the NGS control point. The DiNi reads a barcode off of a special rod in order to determine difference in elevation from a known control point. The accuracy of this level helps to eliminate human reading errors. The data is stored onboard and may be transferred directly into the computer software at the office for analysis of results, ensuring greater accuracy.

SUBSIDENCE MONITORING PLAN

The NGS Control Point CV0295, with an elevation of 3813.31 feet above mean sea level (MSL), will be used as the Reference Control Point for determining the elevations of the newly placed Subsidence Monuments. The elevations of these monuments will be observed semi-annually by a level loop run with the DiNi level to ensure accuracy and precision.

Future observations will made on all available points and tabulated to compare the elevations to the base elevations established on March 9, 2017. The results will be graphically represented by trend lines representing measurements made on each monument. The continual change will be monitored by P.A. and presented to you semi-annually.



MONUMENT DESCRIPTIONS

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

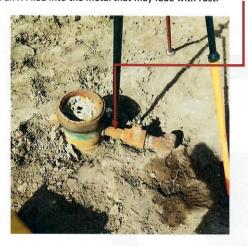
CV0295

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

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.





















STATE PLANE POINT REPORT FROM TRIMBLE BUSINESS CENTER

Project file data		Coordinate System	
Name: Size: Modified: Time zone:	Z:\2017.1006\Survey\Subsidence_Survey \Field Data\Llano Subsidence.vce 66 KB 3/31/2017 11:26:28 AM (UTC:-6) Mountain Standard Time	Name: Datum: Zone: Geold:	United States/State Plane 1983 NAD 1983 (Conus) Default GEOID12A (Conus)
Reference number: Description: Comment 1: Comment 2: Comment 3:		Vertical datum:	

Additional Coordinate System Details

Local Site Settings				
Project latitude:	N32*48'59.08897"	Ground scale factor:	1.00015857066738	
Project longitude:	W103°19'08.02301"	False northing offset:	0.000	
Project height:	3747.243	False easting offset:	0.000	

Point List

ID	Northing (US survey foot)	Easting (US survey foot)	Elevation (US survey foot)	Feature Code	Combined Scale Factor	Meridian convergence angle
100	660370.412	850231.908	3826.913	SUBSIDENCE MONUMENT 3	0.9999973961	0°32'41"
101	661265.048	848986.847	3827.323	SUBSIDENCE MONUMENT 2	0.9999964984	0°32'34"
102	660441.416	848433.714	3830.030	SUBSIDENCE MONUMENT 4	0.9999959805	0*32'30'
103	659971.468	849135,891	3828.318	SUBSIDENCE MONUMENT 1	0.9999965553	0"32'34"
104	660366.410	849101.963	3827.868	LLANO WELLHEAD	0.9999965626	0°32'34'
295	662239.254	852989.679	3813.310	7080 NGS CV0295	1.0000000000	0°32′59′

4/20/2017 9:09:47 AM	Z:\2017.1005\Survey\Subsidence Survey\Field	Trimble Business Center
	Data V Jano Subsidence v ce	



LAT/LONG POINT REPORT FROM TRIMBLE BUSINESS CENTER

Project file data		Coordinate System	
Name: Size: Modified: Time zone: Reference number: Description: Comment 1: Comment 2: Comment 3:	Z:\2017.1006\Survey\Subsidence_Survey \Field Data\Liano Subsidence.vce 66 KB 3/31/2017 11:26:28 AM (UTC:-6) Mountain Standard Time	Name: Datum: Zone: Geold: Vertical datum:	United States/State Plane 1983 NAD 1983 (Conus) Default GEOID12A (Conus)

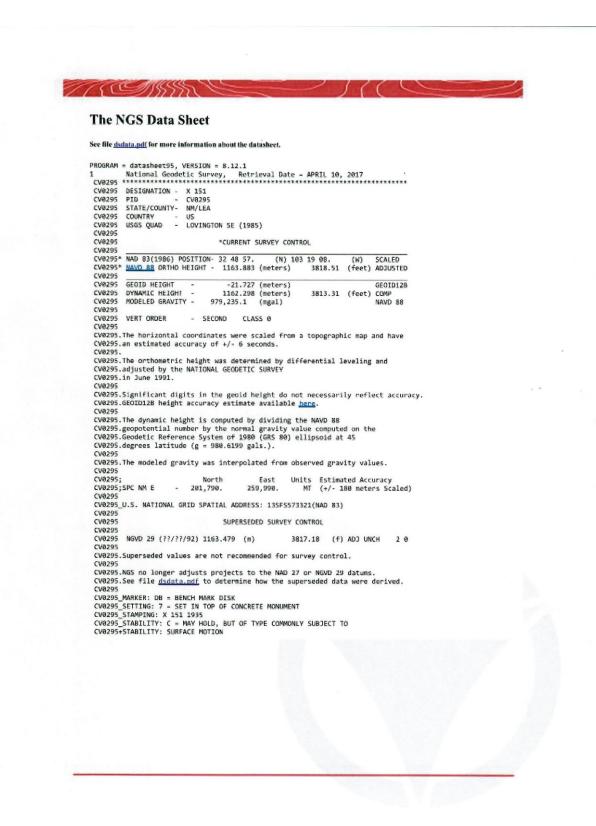
Additional Coordinate System Details

Local Site Settings	ON THE STREET,		
Project latitude:	N32*48'59.08897"	Ground scale factor:	1.00015857066738
Project longitude:	W103*19'08.02301"	False northing offset:	0.000
Project height:	3747.243	False easting offset:	0,000

Point List

ID	Latitude	Longitude	Height (US survey foot)	Feature Code
100	32.811351	103.327927	3760.741	Subsidence Monument 3
101	32.813842	103.331951	3761.132	Subsidence Monument 2
102	32.811593	103.333776	3763.824	Subsidence Monument 4
103	32.810283	103.331506	3762.14	Subsidence Monument 1
104	32.811369	103.331604	3761.696	Liano Wellhead
295	32.816414	103.318895	3747.243	7080 NGS CV0295

4/27/2017	Z:\2017.1005\Survey\Subsidence_Survey\Field	
3:53 PM	Data\Llano Subsidence.vce	Trimble Business Center
3100 1 111	Data (ciario Sabsiderice. Vee	- 11



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2018

```
CV0295
CV0295
CV0295
            HISTORY
HISTORY
                                 - Date
- 1935
                                                   Condition
                                                                                Report By
                                                   MONUMENTED
                                                                                CGS
                                                                                USGS
CV0295
CV0295
                                                     STATION DESCRIPTION
CV0295
CV0295'DESCRIBED BY COAST AND GEODETIC SURVEY 1935
CV0295'6.1 MI W FROM HUMBLE CITY.

CV0295'6.1 MI W ALONG ROADS TOWARDS BUCKEYE RANCH WEST OF HUMBLE CITY ON THE

CV0295'ROAD TO BUCKEYE RANCH, AND 15. FT. S. OF THE CENTER LINE OF THE ROAD.
CV0295
CV0295
                                                     STATION RECOVERY (1979)
CV0295'RECOVERY NOTE BY US GEOLOGICAL SURVEY 1979
CV0295'COURT HOUSE LOVINGTON, LEA CO. NEW MEXICO 12.6 MILES SE ALONG NM 18 CV0295'THENCE 1.3 MI. SE ALONG GRAVEL RD. TO KIMBOROUGH RANCH, THENCE FOLLOW
CV0295'SECTION LINE AND FENCE WEST FOR 3.3 MILES, 620 FEET NORTH OF A FENCE, CV0295'600 FEET EAST OF A PIPE LINE, 1500 FEET NW OF THE SE COR OF SEC. 23 T CV0295'175 R 36 E, IN A PATCH OF MESQUITE. A STANDARD DISK STAMPED X 151
CV0295'1935 AND SET IN THE TOP OF A CONCRETE POST PROJECTING 1.0 FEET.
Elapsed Time = 00:00:07
```



Top Security Sleeve Rod Monuments

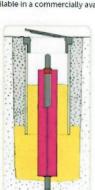


Berntsen Sectional Rod Monument with Floating Sleeve

Berntsen's exclusive Top SecurityTM Sieeve 3-Dimensional Rod Monument System is specifically designed for high-precision geodetic and GPS surveys. Its patented design helps protect against excessive movements in the control monument. The Berntsen extendible rods, when driven to refusal, provide excellent vertical stability. The unique Y-

when driven to refusal, provide excellent vertical stability. The unique Y-shaped design of the Top Security Sleeve adds the second and third dimension to provide the most stable 3-D survey monument available.

Eliminate most common and unexpected shifts in stability by eliminating most of the direct transfer of shifts in movement from ground level or surface movement. Here's how: Rod markers (driven to refusal) have good vertical stability but can be disturbed by the natural phenomenon known as frost heave. Rod markers, installed with a greased-filled PVC pipe surrounding the upper three or four feet (900 or 1200 mm) (or more) of rod, are known to be effective in combating movement caused by frost heave but offer little protection against possible horizontal movement of surrounding earth (another major cause of differences in readings on rod markers). For the first time, Berntsen's Top Security SleeveTM with the horizontal stability of the original Berntsen Top Security inned rod marker system, this is now available in a commercially available survey monument.



It's even extendible! 3' (914mm) lengths of Top Security Sleeves can also be connected together by Berntsen's exclusive End Cap

Alignment Bushings and a little PVC Cement. When used in combination(s), nearly any even-foot length over six feet long (1.83m) of support for the rod marker is possible. That's innovative and flexible design at work for you.

More good news! The Top Security Sleeves' greatest advantage at installation time is speed. Simply drive standard Berntsen round rods to refusal, slip on the grease-filled finned Top Security Sleeve (recommended sleeve length greater than maximum recorded local frost depth), back-fill around the fins with sand, tamp firmly. The color coded End Cap Alignment Bushings follow Berntsen's long established universal color codes for rod marker systems and tell other surveyor's at a glance what size rod is installed - 9/16" (14 mm) Yellow; 3/4" (19 mm) Blue. We recommend NO-TOX lubricating grease to fill the Top Security Sleeve. It is specially formulated to be non-toxic and environmentally safe. It is available in an easy to use cartridge that fits a standard "grease gun". One cartridge should be used for each 36" (915mm) long Top Security Sleeve.





2018

APPENDIX D

Sundries

Office	State of New Me		,	Form C-103	
<u>District I</u> – (575) 393-6161 1625 N. French Dr., Hobbs, NM 88240	Energy, Minerals and Natu			Revised July 18, 2013	
<u>District II</u> – (575) 748-1283 811 S. First St., Artesia, NM 88210	88210 OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Soute Fe, NM 87505		WELL API NO. 30-025-30701	V	
District III – (505) 334-6178 1000 Rio Brazos Rd., Aztec, NM 87410 District IV – (505) 476-3460			5. Indicate Type of Lease STATE x FEE		
220 S. St. Francis Dr., Santa Fe, NM 87505			6. State Oil & Gas Leas	e No.	
DO NOT USE THIS FORM FOR PROPOS	CES AND REPORTS ON WELLS SALS TO DRILL OR TO DEEPEN OR PLI CATION FOR PERMIT" (FORM C-101) FO	JG BACK TO A	7. Lease Name or Unit A Siringo ACS State	Agreement Name	
ROPOSALS.)			8. Well Number 1	/	
. Name of Operator lano Disposal, LLC ✓	1000	S OCD 2 8 2016	9. OGRID Number 370661		
Address of Operator PO Box 190, Lovington NM 8826	1	CEIVED	10. Pool name or Wildo Brine Supply Well (Sala		
. Well Location					
Unit LetterD:	660feet from theNorth_		60feet from the	_Westline \	
Section 26	Township 17S	Range 36E	NMPM Lea	County	
	11. Elevation (Show whether DR, 3831'MSL	RKB, RT, GR, etc.)			
And the second s	ppropriate Box to Indicate Na	1	•	T 05	
NOTICE OF IN ERFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WORK	SEQUENT REPOR		
EMPORARILY ABANDON		COMMENCE DRIL			
ULL OR ALTER CASING	TO SERVICE THE RESERVE THE RES		EMENT JOB		
OLL OTTALTER GAOING	MOETH EE COM E	CACING/OLINEIVI	000		
OWNHOLE COMMINGLE	X Re-enter well to run CBL				
LOSED-LOOP SYSTEM THER:		OTHER:			
	eted operations. (Clearly state all p k). SEE RULE 19.15.7.14 NMAC mpletion.				
r rig and reverse unit, then drill ou	at cellar, cut off P&A marker, weld but cement plugs to 2043'. We will pee by closed loop system, Lucky Ser	ressure test casing to	300 PSI, run a CBL, the	en shut down to	
nd Date:	Rig Release Dat				
ereby certify mar are mormadon a	dore is true and complete to the bes	st of my knowledge of	and benef.		
NATURE_ "aum"	Eurowe TITLE_Agent_		DATE_1/	27/16	
e or print nameMarv	in Burrows E-mail address:	ourrowsmarvin@gm	ail.com PHONE: _	575-631-8067	
PROVED BY:	TITLE Potro	leum Engineer	DATE 0	2/18/16	
aditions of Approval (if any):	- Four			R 19 7016	
			FF	n 13 /00	

The above C103 was filed to notify the OCD of Llano's intention to dig out cellar, install a wellhead, then drill cement to the original 8 5/8" casing set depth of 2043'. Drilling was halted, then a pressure test (MIT) and a CBL log were both ran. The pressure test indicated that the casing had no leaks. The bond log indicated that the 8 5/8" casing had indeed been cemented to surfa9ce, and that the bonding was good.

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

2018

Submit 1 Copy To Appropriate District Office District I – (575) 393-6161	State of New Mexico Energy, Minerals and Natural Resources	Form C-103 Revised July 18, 2013	
1625 N. French Dr., Hobbs, NM 88240 District II – (375) 748-1283 811 S. First St., Artesia, NM 88210 District III – (505) 334-6178 1000 Rio Brazos Rd., Aztec, NM 87410 District IV. – (505) 476-3460 1220 S. St. Francis Dr., Santa Fe, NM 87505	OIL CONSERVATION DIVISION	WELL API NO. 30-025-30701	
	1220 South St. Francis Dr. Santa Fe, NM 87505	Indicate Type of Lease STATE x FEE	
		6. State Oil & Gas Lease No. Salt lease.	
(DO NOT USE THIS FORM FOR PROPOSAL DIFFERENT RESERVOIR. USE "APPLICAT PROPOSALS.)	ES AND REPORTS ON WELLS LS TO DRILL OR TO DEEPEN OR PLUG BACK TO A TON FOR PERMIT" (FORM C-101) FOR SUCH	Lease Name or Unit Agreement Name Siringo ACS State	
Type of Well: Oil Well Gas V		8. Well Number 1	
2. Name of Operator Llano Disposal, LLC	HOBBS OCD	9. OGRID Number 370661	
3. Address of Operator PO Box 190, Lovington NM 88260	OCT 2 8 2016	10. Pool name or Wildcat Salado interval.	
4. Well Location	RECEIVED		
Unit LetterD:_ W line	660feet from theN line and	660feet from the	
Section 26	Township 17S Range 36	6E NMPM County Lea	
	11. Elevation (Show whether DR, RKB, RT, GR, etc. 1831 MSL	2.)	

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:		
PERFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WORK	ALTERING CASING	
TEMPORARILY ABANDON	CHANGE PLANS	COMMENCE DRILLING OPNS.	P AND A	
PULL OR ALTER CASING	MULTIPLE COMPL	CASING/CEMENT JOB		
DOWNHOLE COMMINGLE		Condition of Ap	proval: notify	
CLOSED-LOOP SYSTEM		OCD Hobbs of	ffice 24 hours	
OTHER: Complete re-entry.		other: prior of running N ertinent details, and give pertinent data	IIT Test & Chart	
13 Describe proposed or comple		DIEGE OF SCHRESSING AT	AR A BOOT OF CHILL	

It is the intention of Llano Disposal, LLC to rig up on our Siringo ACS State # 1 to continue re-entry operations. Previous re-entry was to the 8 5/8" casing shoe at which point re-entry was halted and a CBL was ran. The original bore into the Salado will be re-entered to a point 375' below the 8 5/8" shoe (to 2418'). At that point, the hole will be swept clean with brine. We will then POH and lay down drilling equipment and run production equipment as indicated on attached well bore schematic.

Win no	Tify 48+18efo	ne Risup.		
Spud Date: I hereby certify man a	e miormanon above 15 true	Rig Release Date:	owicage and ocner.	
SIGNATURE	ann	EAgent	DATE	10/27/16
Type or print name For State Use O		E-mail address: burrowsmarvin@		. 1
APPROVED BY:	. عمد	on TITLE Dist Suy	REWISOU	DATE 10 31 2016

This C103 was to notify OCD of impending re-entry into the open hole portion of the original well bore.

Submit 1 Copy To Appropriate District Office District 1 - (575) 393-6161 State of New Mexico Energy, Minerals and Natural Resou				Form C-10 Revised July 18, 201	
1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> – (575) 748-1283	1625 N. French Dr., Hobbs, NM 88240 District II – (575) 748-1283 BI S. First St., Artesia, District III – (505) 334-61 1000 Rio Brazos Rd., Aztec, NM 87410 District IV – (505) 476-3460 DEC 0 8 2016 September 10 1000 Rio Brazos Rd., Aztec, NM 87410 District IV – (505) 476-3460 DEC 0 8 2016			WELL API NO. 30-025-30701 5. Indicate Type of Lease X STATE FEE	
District III - (505) 334-61					
RECEIVED		State Oil & Gas Lease No. SLO Salt Lease for BSW Lease Name or Unit Agreement Name Siringo ACS State Well Number #1			
SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.) 1. Type of Well: Oil Well Gas Well Other *** BSW					
				Name of Operator Llano Disposal, LLC	
3. Address of Operator PO Box 190, Lovington NM 88260			10. Pool name or Wildo BSW in Salado	cat	
4. Well Location					
Unit LetterD		_N line and	660feet from the		
Section	Township 17	S Range 36E	NMPM Le	a County	
	11. Elevation (Show whether 13831' MSL	DR, KKB, KI, GR, etc.	,		
12. Check	Appropriate Box to Indicate	Nature of Notice,	Report or Other Data		
NOTICE OF I	NTENTION TO:	SUE	SEQUENT REPOR	RT OF:	
PERFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WOR	RK ALTERING CASING		
TEMPORARILY ABANDON	CHANGE PLANS	COMMENCE DR	ILLING OPNS. PAN	DA	
PULL OR ALTER CASING	MULTIPLE COMPL	CASING/CEMEN	CASING/CEMENT JOB		
DOWNHOLE COMMINGLE					
CLOSED-LOOP SYSTEM OTHER:		OTHER: ****	Finish re-entry/test salt for	BSW	
 Describe proposed or comp 1/21/16: Move in, rig up Lucky So bbls 10# brine water. Put on BO 	ervices rig. Move in and rig up ro DP. Picked up and ran bit, drill co ion, started drilling. Drilled cem-		string tubing in 8 5/8' 24#	casing to 2032' b	
ally. Tagged cement, broke circulatement. Reamed and cleaned out or 1/22/16: Ran tubing out of derrick lean. POH w/ tubing. Laid down brith 500 bbls fresh water. Set two enin to sweep clean of debri. Water 1/23/16: Tied pump back onto tub f tubing to surface via C/T annulus. emove BOP, release all equipment.	to previous clean out depth of 2- it and drill collars. Ran back in I mpty frac tanks to circulate in to. cleaned up after 80 bbls and starte ing. Started pumping fresh water At volume, water was 10#/gallo	w/ 14 stands tubing, se 405'. Dropped bit into hole w/ tubing w/ SN c. Circulated well down ed coming back 9.4# br down tubing at .82 bp on brine per mud engin	clean open hole to 2424'. Set from bottom to 2418'. Set from tubing w/170 bbls fresh trubing by scale weight. Sectom. Pumped volume to cited scales. POH, lay all elements of the control	Circulate hole ac tank and loaded water at 7.75 bbls/ ured well, SDON. rculate from botton	
ally. Tagged cement, broke circulatement. Reamed and cleaned out or 1/22/16: Ran tubing out of derrick lean. POH w/ tubing. Laid down brith 500 bbls fresh water. Set two e ini to sweep clean of debri. Water 1/23/16: Tied pump back onto tub f tubing to surface via C/T annulus. Emove BOP, release all equipment.	to previous clean out depth of 2- it and drill collars. Ran back in I mpty frac tanks to circulate in to. cleaned up after 80 bbls and starte ing. Started pumping fresh water At volume, water was 10#/gallo	w/ 14 stands tubing, se 405°. Dropped bit into hole w/ tubing w/ SN o Circulated well down ed coming back 9.4# b r down tubing at .82 bp on brine per mud engin and packer, then will r	clean open hole to 2424'. Set from bottom to 2418'. Set from tubing w/170 bbls fresh trubing by scale weight. Sectom. Pumped volume to cited scales. POH, lay all elements of the control	Circulate hole ac tank and loaded water at 7.75 bbls. ured well, SDON. rculate from botton	
ally. Tagged cement, broke circulatement. Reamed and cleaned out or 1/22/16: Ran tubing out of derrick lean. POH w/ tubing. Laid down by the food blass fresh water. Set two en in to sweep clean of debri. Water 1/23/16: Tied pump back onto tub f tubing to surface via C/T annulus.	to previous clean out depth of 2- it and drill collars. Ran back in I mpty frac tanks to circulate in to. cleaned up after 80 bbls and start- ing. Started pumping fresh water At volume, water was 10#/gallo Secure well. Will obtain tubing Rig Release	w/14 stands tubing, se 405°. Dropped bit into hole w/ tubing w/ SN o . Circulated well down ed coming back 9.4# b r down tubing at .82 by on brine per mud engin and packer, then will r Date:	clean open hole to 2424'. n bottom to 2418'. Set fr i tubing w/ 170 bbls fresh rine by scale weight. Sec m. Pumped volume to ci eer scales. POH, lay all e ig back up.	Circulate hole ac tank and loaded water at 7.75 bbls. ured well, SDON. rculate from botton	
ally. Tagged cement, broke circulatement. Reamed and cleaned out or 1/22/16: Ran tubing out of derrick lean. POH w/ tubing. Laid down brith 500 bbls fresh water. Set two en in to sweep clean of debri. Water 1/23/16: Tied pump back onto tub f tubing to surface via C/T annulus. Emove BOP, release all equipment. pud Date: hereby certily mar me information.	to previous clean out depth of 2- it and drill collars. Ran back in I mpty frac tanks to circulate in to. cleaned up after 80 bbls and start- ing. Started pumping fresh water At volume, water was 10#/gallo Secure well. Will obtain tubing Rig Release	w/14 stands tubing, se 405°. Dropped bit into hole w/ tubing w/ SN of the common control of the cont	clean open hole to 2424'. n bottom to 2418'. Set fr t tubing w/ 170 bbls fresh rine by scale weight. Sec m. Pumped volume to ci eer scales. POH, lay all e ig back up.	Circulate hole ac tank and loaded water at 7.75 bbls. ured well, SDON. rculate from botton quipment down,	
ally. Tagged cement, broke circulatement. Reamed and cleaned out or 1/22/16: Ran tubing out of derrick lean. POH w/ tubing. Laid down by the 500 bbls fresh water. Set two en in to sweep clean of debri. Water 1/23/16: Tied pump back onto tub f tubing to surface via C/T annulus. Emove BOP, release all equipment. pud Date: hereby certify mar me mormation. IGNATURE August Mar	to previous clean out depth of 2-4 it and drill collars. Ran back in I mpty frac tanks to circulate in to. cleaned up after 80 bbls and starting. Started pumping fresh water At volume, water was 10#/gallc Secure well. Will obtain tubing Rig Release	w/ 14 stands tubing, se 405'. Dropped bit into hole w/ tubing w/ SN c Circulated well dowr ed coming back 9.4# br r down tubing at .82 br n brine per mud engin and packer, then will r Date:	clean open hole to 2424'. n bottom to 2418'. Set fr i tubing w/ 170 bbls fresh rine by scale weight. Sec m. Pumped volume to ci eer scales. POH, lay all e ig back up.	Circulate hole ac tank and loaded water at 7.75 bbls. ured well, SDON. rculate from botton	
ally. Tagged cement, broke circulatement. Reamed and cleaned out or 1/22/16: Ran tubing out of derrick lean. POH w/ tubing. Laid down brith 500 bbls fresh water. Set two enin to sweep clean of debri. Water 1/23/16: Tied pump back onto tub f tubing to surface via C/T annulus. Emove BOP, release all equipment. pud Date: hereby certify mar are information.	to previous clean out depth of 2-4 it and drill collars. Ran back in I mpty frac tanks to circulate in to. cleaned up after 80 bbls and starting. Started pumping fresh water At volume, water was 10#/gallc Secure well. Will obtain tubing Rig Release	w/ 14 stands tubing, se 405'. Dropped bit into hole w/ tubing w/ SN c Circulated well dowr ed coming back 9.4# br r down tubing at .82 br n brine per mud engin and packer, then will r Date:	clean open hole to 2424'. n bottom to 2418'. Set fr i tubing w/ 170 bbls fresh rine by scale weight. Sec om. Pumped volume to ci eer scales. POH, lay all e ig back up. DATE	Circulate hole ac tank and loader water at 7.75 bbls ured well, SDON. reculate from botto quipment down,	

The C103 from the previous page was filed to report the results of reentry into the open hole section of the original well bore. Drilling was halted at 2424' because the interval of pure halite had been penetrated, and red clay/gray sand returns began circulating to surface. A temporary tubing string was run for the purpose of well testing, after a brief period of clean-up by circulating fresh water, clean 10# brine began circulating to surface.

District I – (575) 393-6161 Energy, Minerals and Natural Resources	Revised July 18, 2013
1625 N. French Dr., Hobbs, NM 88240	ELL API NO. 20-025-30701
811 S. First St., Artesia, NM 88210	Indicate Type of Lease
District III - (505) 334-61/8 1220 South St. Francis Dr.	STATE FEE /
1000 Rio Brazos Rd., Aztec, NM 87410 <u>District IV</u> – (505) 476-3460 Santa Fe, NM 87505 2017 6.	State Oil & Gas Lease No.
1220 S. St. Francis Dr., Santa Fe, NM 87505	SALT LEASE
	Lease Name or Unit Agreement Name
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A	- 1 1
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	SIRINGO ACS STATE
1. Type of Well: Oil Well Gas Well Other LSS W 8.	Well Number
2. Name of Operator 9.	OGRID Number
LLAND DISPOSAL LLC 1	370661
1	D. Pool name or Wildcat
P. O. BOX 190, LOVINGTON NM 88260	BSW in SALADO
4. Well Location	
Unit Letter 1 : 6 6 0 feet from the 1 line and	
Section Township 175 Range 366 11. Elevation (Show whether DR, RKB, RT, GR, etc.)	
3831 MSL	
12. Check Appropriate Box to Indicate Nature of Notice, Rep	port or Other Data
	•
	QUENT REPORT OF:
PERFORM REMEDIAL WORK PLUG AND ABANDON REMEDIAL WORK	ALTERING CASING
TEMPORARILY ABANDON	
PULL OR ALTER CASING MULTIPLE COMPL CASING/CEMENT JO DOWNHOLE COMMINGLE	DB 🗆
CLOSED-LOOP SYSTEM	
OTHER: Run BRING PROD. E.R. K. OTHER:	
13. Describe proposed or completed operations. (Clearly state all pertinent details, and give	
of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Comple	etions: Attach wellbore diagram of
proposed completion or recompletion.	
It is the intention of LLAN	O DISPOSAL, LLC
	2.1
TO RIG up on our SirinGo	# 1 Brine
	David And
Supply well to Run Tubina,	PALIZER, Pris
,	1 11
This pipe per permit i	e will tero of.
Monday 4/10/17, Commence u	DORIE 4/11/17.
Monday 4/10/17, Commence u	1111/1/
·	
Spud Date: Rig Release Date:	and the state of t
I hereby certify that the information above is true and complete to the best of my knowledge and	nd belief.
7	
SIGNATURE My coment vierous TITLE Hoent	DATE 4/9/17
11 12 1 7	
The service was IVI AD I like BUND A RE mail address V was A DUNCE M	^
Type or print name //////CVW Delectors E-mail address Durctows W	ARVM PHONE: 575-631-8067
Type or print name MARVM BUNNOWS E-mail address: BUNNOWS M For State Use Only	DATE 4/9/17 ARVM PHONE: 575-631-8067
Por State Ose Only	AR VM PHONE: 575-631-8067 com ingineer DATE 0 + 144/17

The above 103 was filed to notify of the intention to pull the test tubing string, then run the permanent injection string.

District I — (575) 393-6161 1625 N. French Dr., Hobbs, NM 88240 District III — (575) 748-1283 811 S. First St., Artesia, NM 88210 District III — (505) 334-6178 1000 Rio Brazos Rd., Aztec, NM 87410 District III — (505) 334-6178 1220 South St. Franci Santa Fe, NM 875 Sundry Notices and Reports on Wells (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUC DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR PROPOSALS.) 1. Type of Well: Oil Well Gas Well Other SSW 2. Name of Operator 1. Address of Operator 1. Well Location 1. Well Location 1. Township 1 7 5 Rance Township 1 7 5 Rance Township 1 7 5 Rance 11. Elevation (Show whether DR, Ferrica 11. Elevation (Show whether DR, Ferrica 1200)	WELL API NO. \$\frac{70 - 0 \ 75 - 30 \ 70\right)}{5 \text{ Indicate Type of Lease}}\$ STATE \(\frac{1000}{2000} \) 5. Indicate Type of Lease \(\frac{5000}{2000} \) 5. Indicate Type of Lease \(\frac{5000}{2000} \) 6. State Oil & Gas Lease No. \$\frac{5000}{2000} \) 7. Lease Name or Unit Agreement Name \$\frac{5000}{2000} \) 8. Well Number 9. OGRID Number \$\frac{5000}{2000} \) 10. Pool name or Wildcat \$\frac{5000}{2000} \) 10. Pool name or Wildcat
	(KB, KI, GK, elc.)
3831	
12. Check Appropriate Box to Indicate Nat	ture of Notice, Report or Other Data SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK PLUG AND ABANDON PLUG AND ABANDON MULTIPLE COMPL DOWNHOLE COMMINGLE CLOSED-LOOP SYSTEM	REMEDIAL WORK ALTERING CASING COMMENCE DRILLING OPNS. P AND A CASING/CEMENT JOB
OTHER: 13. Describe proposed or completed operations. (Clearly state all pe of starting any proposed work). SEE RULE 19.15.7.14 NMAC.	
proposed completion or recompletion.	
It is the Intention	n of LCAMO DisposAL, LCC
TO RIG UP A pump	Truck on the phone
WELL AT 9:00 Am, The	unsary, May 18, com,
To penform A MIT (BRINE CAUTY) 1851,
Spud Date: Rig Release Date	
I hereby certify that the information above is true and complete to the best	t of my knowledge and belief.
SIGNATURE HALLE FALLE OUT TITLE A	Gent DATE 5/15/17 BURLOWSMARVIN 575-631- BEMAIL, COM PHONE: 8067
Type or print name MANIN BULLOWS E-mail address:	G G M AIL, CO M PHONE: 8067
APPROVED BY: Conditions of Approval (if any):	10/II DATE 5/17/2017

This 103 was filed to notify the OCD of intention to run a MIT on the well post installation of injection equipment.

Ome		D 1 I-L 10 2012
District I - (575) 393-6161	Energy, Minerals and Natural Resources	Revised July 18, 2013 WELL API NO.
1625 N. French Dr., Hobbs, NM 88240		
<u>District II</u> – (575) 748-1283 811 S. First St., Artesia, NM 88210	OIL CONSERVATION DIVISION	30-025-30701
District III - (505) 334-6178	1220 South St. Francis Dr.	5. Indicate Type of Lease
1000 Rio Brazos Rd., Aztec, NM 87410	Santa Fe, NM 87505	STATE FEE
<u>District IV</u> – (505) 476-3460 1220 S. St. Francis Dr., Santa Fe, NM	Let	6. State Oil & Gas Lease No.
87505	MAY 1 6 2017	SALT
	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	
DIFFERENT RESERVOIR. USE "APPLIC	CATION FOR PERMIT" (FORM C-101) FOR SUCH V	SIRINGO ACS ST.
PROPOSALS.)	C-Will Modern PS3 3	8. Well Number
	Gas Well Other RSW	
2. Name of Operator	1'	9. OGRID Number
	DISPOSAL, LLC	370661
Address of Operator	1	10. Pool name or Wildcat
P.O. BOX 190.	LOVINGTON N.M. 88260	BSW in the SALT
4. Well Location		
Unit Letter /2 :	660 feet from the N line and	660 feet from the W line
	Township /75 Range 36 L=	NMPM County ZeA
Section 26		
	11. Elevation (Show whether DR, RKB, RT, GR, etc.	
	3831 msc	
12. Check A	appropriate Box to Indicate Nature of Notice,	Report or Other Data
NOTICE OF IN	TENTION TO: SUE	SEQUENT REPORT OF:
PERFORM REMEDIAL WORK	PLUG AND ABANDON REMEDIAL WOR	RK ALTERING CASING
TEMPORARILY ABANDON	CHANGE PLANS COMMENCE DR	ILLING OPNS. P AND A
PULL OR ALTER CASING	MULTIPLE COMPL CASING/CEMEN	T JOB
DOWNHOLE COMMINGLE		
CLOSED-LOOP SYSTEM		
OTHER:	OTHER: R	en Prop ER. X
	leted operations. (Clearly state all pertinent details, ar	d give pertinent dates including estimated date
	rk). SEE RULE 19.15.7.14 NMAC. For Multiple Co	
proposed completion of rec-	ompletion. OUS C-103 NOTICE AND RAN BRINE	(11/01.)
0 0	and Calpa notice	OT INTENT (4/4/17)
Per previ	ous circs	,
	1 DAN BRINE	WHTER GENERATION
me RIGGEDWI	T per Attached We	1
1	1	11 Fana Chematic
eduidmen	THER ATTACHED WE	LISORE JENCINITY
C 4 2017 111 111		
Spud Date:	Rig Release Date:	
Spud Date.	rug release Date.	
I hereby certify that the information	above is true and complete to the best of my knowledge	ge and belief.
		-1 -1:-
SIGNA'	TITLE MGent	DATE 5/15/17
n	TITLE <u>HGENT</u> BURNOWS E-mail address: BURNOW GMAIL	575-
Type or print name NARVIN	KURROWS E-mail address: BURROW	5 MARVIN PHONE: 631-8067
For State Use Only	@ Emili	. com
APPROVED BY:	Accepted for Record Only	DATE
Conditions of Approval (if any):	Missiown 5,	1
	MATHOUTH 5	23/2017
		7
	•	

The chronological placement of the C103 from the previous page, is reflective of the order these 103s were scanned into record by OCD District 1 office. However, the above 103 was filed to notify OCD that Llano had rigged up and had run permanent injection tubing.

Submit 1 Copy To Appropriate District Office District 1 – (575) 393-6161	State of New Me Energy, Minerals and Natu		Form C-103 Revised July 18, 2013
1625 N. French Dr., Hobbs, NM 88240 District II – (575) 748-1283			WELL API NO.
811 S. First St., Artesia, NM 88210 District III – (505) 334-6178	OIL CONSERVATION		30-025-30701
1000 Rio Brazos Rd., Aztec, NM 87410 <u>District IV</u> – (505) 476-3460 1220 S. St. Francis Dr., Santa Fe, NM	1220 South St. Fran Santa Fe, NM 87		5. Indicate Type of Lease STATE X FEE
87505			6. State Oil & Gas Lease No.
			SALADO
SUNDRY NOTIC (DO NOT USE THIS FORM FOR PROPOSA DIFFERENT RESERVOIR. USE "APPLICA PROPOSALS.)		UG BACK TO A	7. Lease Name or Unit Agreement Name Siningo ACS ST.
	Well Other 🗶		8. Well Number
2. Name of Operator	posal, uc	,	9. OGRID Number 37066/
3. Address of Operator	ous AL, LLC		
P.O. 130x 19	e, Lovinoron n	m 88260	BSW (Brine)
4. Well Location	160 fact from the	line and	660 feet from the W line
	Township 175 Ra		NMPM County Less
Section 26			
	11. Elevation (Show whether DR,	The state of the s	
	383/ /	736	
NOTICE OF INTERPORT REMEDIAL WORK TEMPORARILY ABANDON PULL OR ALTER CASING	TENTION TO: PLUG AND ABANDON CHANGE PLANS MULTIPLE COMPL	REMEDIAL WOR COMMENCE DR CASING/CEMEN	ILLING OPNS. PAND A
DOWNHOLE COMMINGLE 13	,		
	1. TEST.	OTHER:	
13. Describe proposed or complet of starting any proposed work	c). SEE RULE 19.15.7.14 NMAC	. For Multiple Cor	d give pertinent dates, including estimated date inpletions: Attach wellbore diagram of
We will	ise penfoni	n IT	Brine CAVITY
pressane SEptember	Jest on TI	his w	Brine CAVITY ele on Tuesony, A.M.
Spud Date: I hereby certify that the information ac	Rig Release Dat		e una ocner.
SIGNATURE amount	SurrourFITLE		FOR DATE 8/30/17
Type or print nam MAN in 13	BURNOWS E-mail address:	BURROWS	MARVIN PHONE: 631-8067
APPROVED BY:	400 WHILL	AO/IT	DATE 8 30 2017

The above 103 was filed to notify OCD that Llano intended to run a casing pressure test (MIT) on this well on September 5, 2017.

District I - (575) 393-6161	State of New Me Energy, Minerals and Nation		Form C-103 Revised July 18, 2013
1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> – (575) 748-1283 811 S. First St., Artesia, NM 88210 <u>District III</u> – (505) 334-6178 1000 Rio Brazos Rd., Aztec, NM <u>District IV</u> – (505) 476-3460	1220 South St. Fra Santa Fe, NM 8	ancis Dr.	WELL API NO. 30-025-30701 5. Indicate Type of Lease STATE X FEE
1220 S. St. Francis Dr., Santa 87505	Santa I C, WW 6	7303	6. State Oil & Gas Lease No. SALT Lease
(DO NOT USE THIS FORM FOR PROPO DIFFERENT RESERVOIR. USE "APPLIE	SALS TO DRILL OR TO DEEPEN OR PL CATION FOR PERMIT" (FORM C-101) F	LUG BACK TO A	7. Lease Name or Unit Agreement Name Siring ACS ST.
PROPOSALS.) 1. Type of Well: Oil Well Ga	as Well Other RSW		8. Well Number
2. Name of Operator LLANO 015p	osal, LLC	/	9. OGRID Number 3 7 0 6 6 /
3. Address of Operator	,	-8262	10. Pool name or Wildcat
4. Well Location Unit Letter : Section :	660 feet from the 75 R		660 feet from the W line NMPM County
	11. Elevation (Show whether DE		
PERFORM REMEDIAL WORK TEMPORARILY ABANDON PULL OR ALTER CASING	PLUG AND ABANDON CHANGE PLANS MULTIPLE COMPL	REMEDIAL WOO COMMENCE DE CASING/CEME	RILLING OPNS. P AND A
DOMAINOLE COMMINCLE			W1 30B
DOWNTOLE COMMININGLE			N1 30B
DOWNHOLE COMMINGLE CLOSED-LOOP SYSTEM OTHER:		OTHER: X	Brine CAVITY Tes
CLOSED-LOOP SYSTEM OTHER: 13. Describe proposed or compl of starting any proposed wo	ork). SEE RULE 19.15.7.14 NMAG	pertinent details, ar C. For Multiple Co	Brine CAVITY Test and give pertinent dates, including estimated dates ampletions: Attach wellbore diagram of
CLOSED-LOOP SYSTEM OTHER: 13. Describe proposed or compl of starting any proposed wo proposed completion or reco	ompletion.	pertinent details, ar C. For Multiple Co	BRINE CAVITY Test and give pertinent dates, including estimated dates ompletions: Attach wellbore diagram of the sense of
CLOSED-LOOP SYSTEM OTHER: 13. Describe proposed or compl of starting any proposed wo proposed completion or reco	ompletion.	pertinent details, ar C. For Multiple Co	Brine CHVITY Test and give pertinent dates, including estimated dates ampletions: Attach wellbore diagram of
CLOSED-LOOP SYSTEM OTHER: 13. Describe proposed or compl of starting any proposed wo proposed completion or reco	ompletion. US C-103 NOV VITY PRESSE 915/17, PLEN This Rig Release Di	pertinent details, ar C. For Multiple Co	BRINE CAVITY Tes and give pertinent dates, including estimated dat ampletions: Attach wellbore diagram of and enformed ST W/ Och and pressure
CLOSED-LOOP SYSTEM OTHER: 13. Describe proposed or compl of starting any proposed wo proposed completion or rece Per Previo 3 rine Ch Witness On Ch Ant ATT pud Date: hereby certify man are mormation.	ork). SEE RULE 19.15.7.14 NMAG completion. 145 C-103 Nov 145 C-1	pertinent details, ar C. For Multiple Co	Brine CAVITY Test and give pertinent dates, including estimated date of the properties of the properti
CLOSED-LOOP SYSTEM OTHER: 13. Describe proposed or compl of starting any proposed wo proposed completion or rece Per Previo 3 rine Ch Witness On Ch Ant ATT pud Date: hereby certify man are mormation.	ork). SEE RULE 19.15.7.14 NMAG completion. 145 C-103 Nov 145 C-1	pertinent details, ar C. For Multiple Co	BRINE CAVITY Testades give pertinent dates, including estimated date ampletions: Attach wellbore diagram of the senformed of

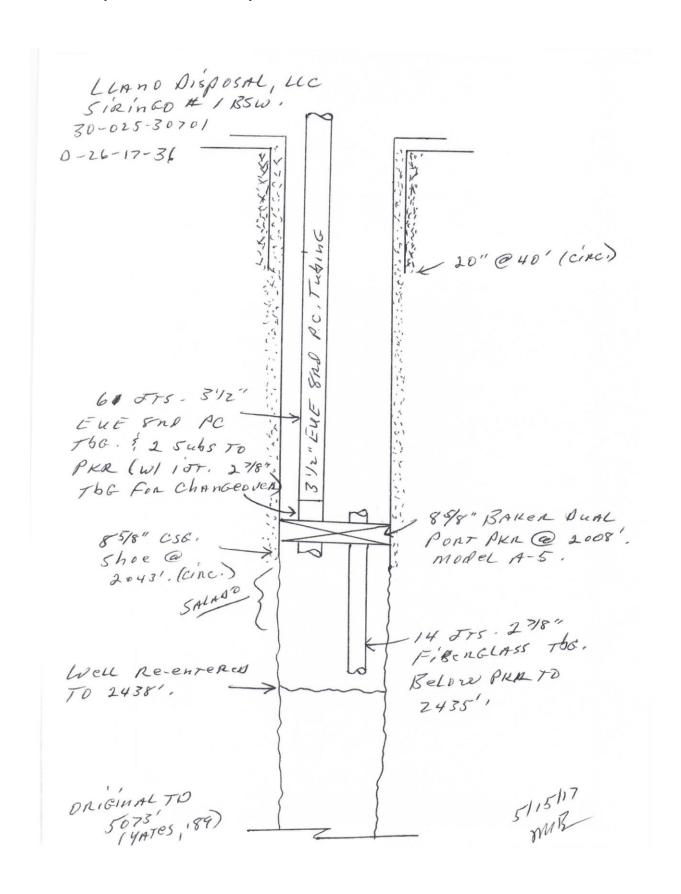
The above 103 was filed to notice the OCD that a OCD witnessed MIT had been performed on the well.

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

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APPENDIX E

Well Diagrams



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Annual Report

2018

APPENDIX F

Chemical Analysis



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

April 27, 2018

DARR ANGELL

LLANO BRINE

P. O. BOX 250

LOVINGTON, NM 88260

RE: WATER SAMPLES

Enclosed are the results of analyses for samples received by the laboratory on 04/26/18 16:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. 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 accreditated 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.

Celey & Keene

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



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

Analytical Results For:

LLANO BRINE DARR ANGELL P. O. BOX 250 LOVINGTON NM, 88260 Fax To:

Received: Reported: Project Name: 04/26/2018 04/27/2018 WATER SAMPLES NONE GIVEN

Sampling Date: Sampling Type:

Sampling Condition:

04/26/2018 Water ** (See Notes) Sample Received By: Jodi Henson

Project Number: Project Location:

LEA COUNTY, NM

Sample ID: FRESH WATER (H801168-01) Chloride, SM4500CI-B

emoriac, si-14300CI-B	mg	/L	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	128	4.00	04/27/2018	ND	100	100	100	0.00	

Sample ID: BRINE WATER (H801168-02) Chloride SM4500CL-R

	mg/	-	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	188000	4.00	04/27/2018	ND	100	100	100	0.00	

Cardinal Laboratories

*=Accredited Analyte

Ceder treene

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD

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

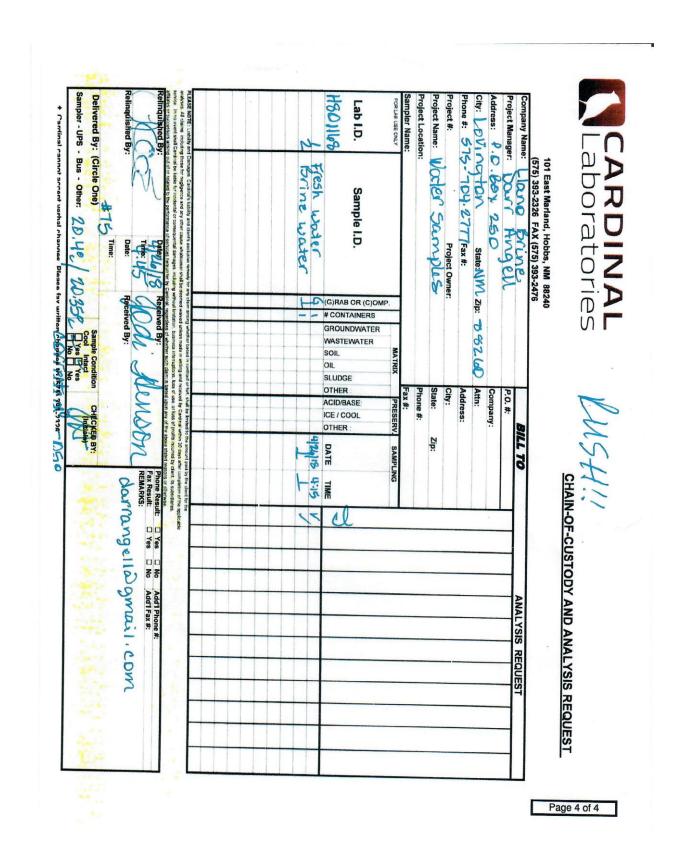
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

Celleg I treene

Celey D. Keene, Lab Director/Quality Manager



2018

APPENDIX G

Certification

Annual Report

Llano Disposal, LLC BW35 API 30-025-30701

2018

Annual Report

Llano Disposal, LLC BW35 API 30-025-30701

2018

<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

Owner/Permittee Holder

Name

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

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

Action 123447

COMMENTS

Operator:	OGRID:
LLANO DISPOSAL, L.L.C.	370661
P.O. Box 250	Action Number:
Lovington, NM 88260	123447
	Action Type:
	[UF-DP] Discharge Permit (DISCHARGE PERMIT)

COMMENTS

Created E	By Comment Comment	Comment Date
cchave	Annual Report 2018	7/13/2022

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

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CONDITIONS

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Operator:	OGRID:
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	Action Type:
	[UF-DP] Discharge Permit (DISCHARGE PERMIT)

CONDITIONS

Created By	Condition	Condition Date
cchavez	1) Environmental Analytical Laboratory Data Results Sheet "Sample ID" descriptors based on permit should include: Monitor Well (GW)- Annually, Injection Fresh Water- Quarterly and Brine- Quarterly. 2) AOR should include all wells within ½ mile of the brine well. 3) Appendix A MIT Chart(s) shall include Chart Recorder Calibration Sheet(s) with last date of calibration, calibration 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 assist in monitoring cavern height in algorithm calculations. 5) Appendix F permit sample frequency, sample parameters for monitor well (groundwater), injected freshwater, and brine quality shall be completed.	7/13/2022