BW-038

ANNUAL REPORT

2019

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2019 Annual Class III Well Report Llano Disposal, LLC **BW-38** API – 30-25-20592

Submitted by: Laura Angell, 10/26/22

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Summary of Class III Well Operations

BW3 (State 27 # 1) was put into service in the last quarter 2018 after a successful re-entry and recompletion. After re-entry was accomplished, a production string was run into the Salado. Fresh water was then circulated to test brine quality. Brine quality from this well has been excellent at 10.00 and 10.00+ lbs. per gallon. The amount of fresh water injected to brine recovered has been within expected ratio and in agreement with known cavern development. Injection pressure required to raise brine to surface has been approximate to anticipated (calculated) value.

Initially, there was not a great demand for brine water in the Maljamar area. However, that market has evolved as horizontal shale drilling continues to migrate northward from southern Lea and Eddy counties. Brine demand has increased accordingly. This well is situated perfectly to service changing industry needs. Currently this well is the only brine producer in the Maljamar area.

No changes have been made to the well/surface connection. Also, no changes have been made to the physical plant since the well was first put into operation. Trucks load on a one-foot-thick concrete pad. The loading pad is curbed, and has a sump for catching any brine incidentally spilled in handling hoses, etc. A heavy gauge plastic liner has been maintained under the storage tank and dike areas.

MITs have been performed on this well when required and have all been Hobbs OCD witnessed. Test pressure charts are found in **APPENDIX A** at the end of this report.

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.

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Llano Disposal, LLC BW-38 API 30-025-20592

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2019						
	Brine	Brine	Fresh	Fresh		Percent
	Monthly	Cumulative	Monthly	Cumulative		Fresh/
Month	BBLS	BBLS	BBLS	BBLS	PSI	Brine
Jan						
Feb						
Mar						
Apr	4,962	4,962	5,466	5,466	265	1.1015
May	15,495	20,457	17,058	22,524	265	1.1009
June	7,178	27,635	7,904	30,428	265	1.1011
July	14,456	42,091	15,929	46,357	265	1.1019
Aug	22,280	64,371	24,512	70,869	265	1.1002
Sep	8,260	72,631	9,103	79,973	265	1.1021
Oct	3,464	76,095	3,813	83,786	265	1.1008
Nov	2,685	78,780	2,955	86,741	265	1.1006
Dec	7,030	85,810	7,744	94,485	265	1.1016

Monthly Fluid Injection and Brine Production

	Brine	Brine	Fresh	Fresh
	Yearly	Cumulative	Yearly	Cumulative
Year	BBLS	BBLS	BBLS	BBLS
2019	85,810	85,810	94,485	94,485

Annual Monitor Well Analytical Data Results

Please see page 8 of this report for deviations.

Injection Pressure Data

Injection pressure at the well (tubing) averages 265/PSI. The brine well casing pressure (brine to battery), averages about 22 PSI. The field operator checks the pressures daily and records them on the daily log.

Pipeline Hydrostatic Test Results

Service piping carrying fresh water to BW38, is a combination of 2" steel and 2" SDR11 HD poly piping. This line is tested accordingly to 160 psi. The feeder line (fresh water) runs due north from the freshwater pump The distance is approximately 145'. 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 line is visually inspected. The 3" SDR11 HD poly line leading from BW38 due west approximately 2500' 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 BW38 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, observing 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 SDR11 high density poly. These lines carry normal head pressure of 0 psi (emptied tanks) to 17 psi (full tankage) but are virtually always under positive pressure. These lines are under continual live camera observation and viewed in person daily, both by truckers and by Llano field personnel. All tanks are 30' fiberglass and are manifolded together with 6" SDR11 HD poly line. Valving is installed on the outlet of each tank so that any one, or all 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

Reported: 16-Jul-18 09:40

Analytical Results For:

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

Project: CAPROCK BSW Project Number: NONE GIVEN Project Manager: MARVIN BURROWS Fax To: NONE

SAM	IPLE	A	

H801855-01 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborate	ories					
Inorganic Compounds					^					
Alkalinity, Bicarbonate	190		5.00	mg/L	1	8062505	AC	10-Jul-18	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	8062505	AC	10-Jul-18	310.1	
Chloride*	36.0		4.00	mg/L	1	8070501	AC	10-Jul-18	4500-Cl-B	
Conductivity*	480		1.00	uS/cm	1	8071001	AC	10-Jul-18	120.1	
pH*	7.73		0.100	pH Units	1	8071001	AC	10-Jul-18	150.1	
Sulfate*	34.3		10.0	mg/L	1	8071002	AC	10-Jul-18	375.4	
TDS*	324		5.00	mg/L	1	8070311	AC	11-Jul-18	160.1	
Alkalinity, Total*	156		4.00	mg/L	1	8062505	AC	10-Jul-18	310.1	

			Green Ana	lytical Labo	ratories					
Total Recoverable Metal	ls by ICP (E200.7)									
Calcium*	70.9		1.00	mg/L	10	B807085	JDA	12-Jul-18	EPA200.7	
Magnesium*	8.93		1.00	mg/L	10	B807085	JDA	12-Jul-18	EPA200.7	
Potassium*	2.86	0.677	10.0	mg/L	10	B807085	JDA	12-Jul-18	EPA200.7	

mg/L

10

B807085

JDA

12-Jul-18

EPA200.7

10.0

Cardinal Laboratories

Sodium*

*=Accredited Analyte

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Analytical Results For:

Llano Disposal, LLC BW-38 API 30-025-20592

LLANO DISPOSAL, LLC				roject: CAP		v			Reported:	~~~~
125 W. ST. ANNE	W. ST. ANNE Project Number: NONE GIVEN								16-Jul-18 09:4	10
HOBBS NM, 88240			Project Mar	nager: MAR	RVIN BURR	ROWS				
			Fa	ax To: NOM	NE .					
	100									
			S	AMPLE B						
			H801	855-02 (Wa	ter)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Note
			Cardin	nal Laborat	ories	х.				
Inorganic Compounds					-					
Alkalinity, Bicarbonate	181		5.00	mg/L	1	8062505	AC	10-Jul-18	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	8062505	AC	10-Jul-18	310.1	
Chloride*	48.0		4.00	mg/L	1	8070501	AC	10-Jul-18	4500-CI-B	
Conductivity*	468		1.00	uS/cm	1	8071001	AC	10-Jul-18	120.1	
oH*	7.86		0.100	pH Units	1	8071001	AC	10-Jul-18	150.1	
Sulfate*	34.0		10.0	mg/L	1	8071002	AC	10-Jul-18	375.4	
ГDS*	310		5.00	mg/L	1	8070311	AC	11-Jul-18	160.1	
Alkalinity, Total*	148		4.00	mg/L	1	8062505	AC	10-Jul-18	310.1	

Total Recoverable Metal	ls by ICP (E200.7)									
Calcium*	47.0		1.00	mg/L	10	B807085	JDA	12-Jul-18	EPA200.7	
Magnesium*	9.14		1.00	mg/L	10	B807085	JDA	12-Jul-18	EPA200.7	
Potassium*	2.49	0.677	10.0	mg/L	10	B807085	JDA	12-Jul-18	EPA200.7	I
Sodium*	38.4		10.0	mg/L	10	B807085	JDA	12-Jul-18	EPA200.7	5

Green Analytical Laboratories

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Celeg & treene

Celey D. Keene, Lab Director/Quality Manager

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Mechanical Integrity Test

A MIT was performed on 9/26/19: Llano scheduled, then ran a MIT on BW38 using a calibrated chart recorder and the well passed the pressure test requirement. See the chart in **APPENDIX A**.

Deviations from normal Operations

1. 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.

2. Quarterly Chemical Analysis

Additional analysis was not done in 2019 since the well had only been in operation a short period of time.

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 a short period of time.

Leaks and Spills Corrective Action Reports

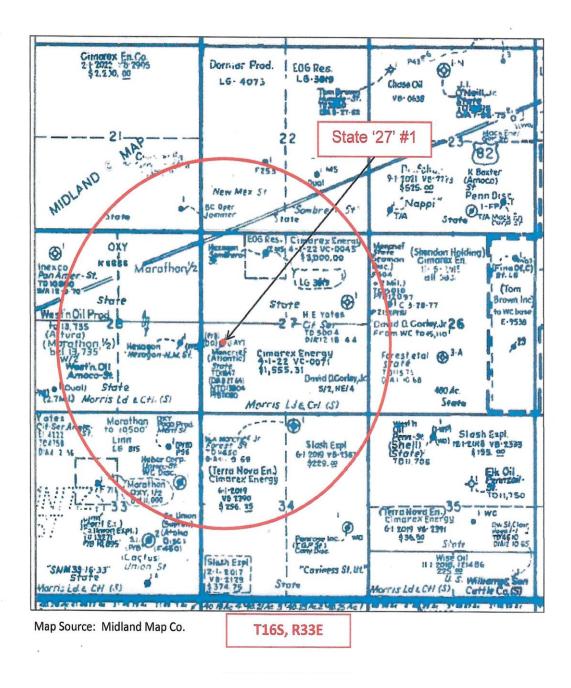
There were no leaks, spills, or corrective action during this period.

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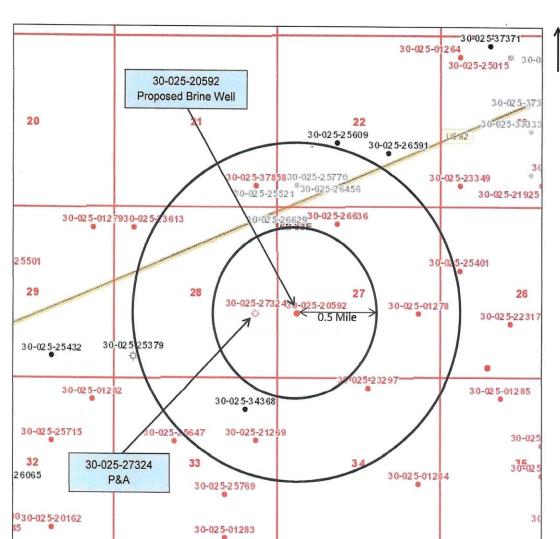
2019

Area of Review Update Summary

Please see below, the original AOR document that was submitted as part of the original application for BW38. 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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Map Source: NMOCD GIS

0.005.040

T16S, R33E

Lea County, New Mexico

0.5 miles

2019

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2019

Llano Disposal, LLC State 27 #1 API # 30-025-20592 Offset Wells Located within 0.5 and 1 Mile Areas of Review

There is only one offset well located within the 0.5 mile AOR.

UL, Sec, T, R	API Well No.	Well Name	TVD	Operator	Status	Salt Plugs or Covered with Casing/Cement
I-28-16S-33E	30-025-27324	Hexagon NM 28 State #1	13848'	Hexagon Oil & Gas Inc	Drilled 1981, P&A 1991	Cmt plug @ TOS and below salt, 8-5/8" csg/cmt cover salt

There are six additional offset wells located outside the 0.5 mile AOR, but within the 1 mile AOR.

UL, Sec, T, R	API Well No.	Well Name	TVD	Operator	Status	Salt Plugs or Covered with Casing/Cement
P-21-16S-33E	30-025-37858	Jammer #1	10902'	Legacy Reserves Operating, LP	Drilled 2006, P&A 2010	Cmt plugs @ TOS and below salt, 8-5/8" csg/cmt cover salt
C-27-16S-33E	30-025-26636	Sombrero MS State #2	11730'	I&W Inc	Drilled 1980, P&A 1998	Cmt plugs @ TOS and below salt, 8-5/8" csg/cmt cover salt
I-27-16S-33E	30-025-01278	Cities Service State #1	5004'	Harvey E. Yates	Drilled 1944, P&A 1946	Bridge plugs at TOS and at BOS, no csg/cmt cover salt
A-33-16S-33E	30-025-34368	Merit 33 State #1	15094'	Oxy USA Inc	Drilled 1998, active WC producer	9-5/8" csg/cmt cover salt
H-33-16S-33E	30-025-21269	Union State #1	11650'	J. M. Huber Corp	Drilled 1965, P&A 1972	Cmt plugs above and below salt, 8-5/8" csg covers salt
B-34-16S-33E	30-025-23297	Apple State #1	11650'	Manzano Oil Corp	D&A 1969, Re-entered 1986, P&A 1987	Cmt plugs above and below salt, 8-5/8" csg covers salt

2019

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

A <u>MIT</u> was performed on 9/26/19. Llano scheduled, then ran the MIT on BW38 using a calibrated chart recorder. Subsequent pressure test was successful to 320 psi. See the chart in **APPENDIX A**.

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 BW38 could be described as "good", meaning that the well has performed very well in producing 10# brine. There are <u>no recommendations</u> at this time.

Injected Fluids to Brine Ratio

Ratio of Fresh to Brine	1.1011
Total Fresh for the year	94,485
Total Brine for the year	85,810

Summary of Major Facility Activities

There were no major activities during this period.

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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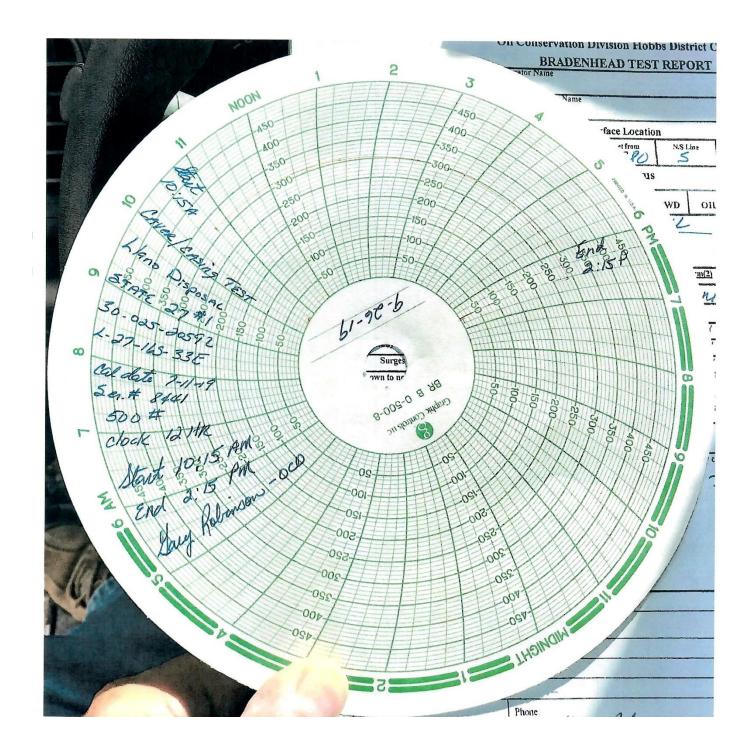
APPENDIX A

MITs



Llano Disposal, LLC BW-38 API 30-025-20592

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APPENDIX B

Cavern Characterization

2019

Cavern Characterization

For 2019, 94,485 bbls of fresh water have been injected into salt strata for the purpose of brine generation (3,968,370 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, 6,587,494 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 47,919 cubic feet of halite has gone into solution this year. The amount of fresh water injected (94,485 bbls) as compared to the amount of brine produced (85,810 bbls) shows that water is being used to fill the cavity as the cavity increases in volume:

121,118 bbls / 133,338 bbls = 90.8% of water is being recovered as brine, 9.2% is being used to fill the brine cavity.

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 total tubing 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 formula to calculate the volume of a truncated cone is:

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

Where:

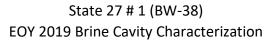
- 1) r equals the radius of the small end cone diameter in feet
- 2) R equals the radius of the large end cone diameter in feet
- 3) Rsq is "R squared". rsq is "r squared".
- 4) H is depth in feet from tubing depth to top of salt (casing shoe).

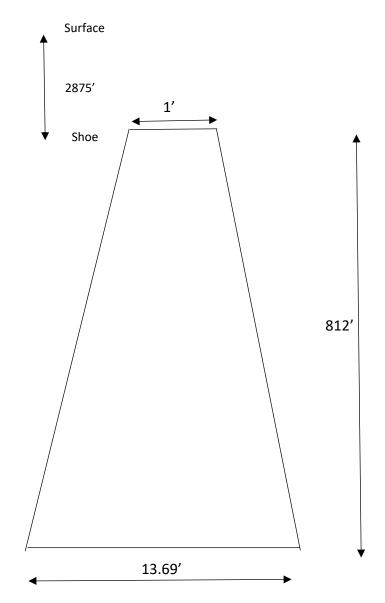
Fresh water used at BW38 for the purpose of brine generation is known to weigh 8.4 lbs. per gallon. Therefore 1.6 lbs. of salt must be taken up by each gallon of fresh water so injected to result in 10 ppg brine water, which is the known industry standard. It follows then that each barrel of brine water (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.

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

Llano Disposal, LLC BW-38 API 30-025-20592

Cavern Size, Shape, & Volume Estimate





Estimated height (H) to Casing Shoe is 2875' Estimated cavern floor diameter (D) is 13.69' Estimated * Cavern Collapse Ratio is **.0047** where 13.69/2875 = .0047

Inserted formula values: .3330 x 3.1415(6.982sq + 7.982) 812 or 47,919 cu ft of halite solution mined (by rounding to the third decimal).

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

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APPENDIX C

Subsidence Survey Results

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1 TOMISSIS

Lovington, New Mexico, 88260

& ASSOCIATES PA Engineering Surveying Testing Defining Quality Since 1965

Marvin Burrows Llano Disposal LLC

806-471-5628

March 14, 2019

RE: Survey Report

2019.1018

TIGREW

Llano Disposal LLC'S State 27 BSW #1 (BW-38) Project

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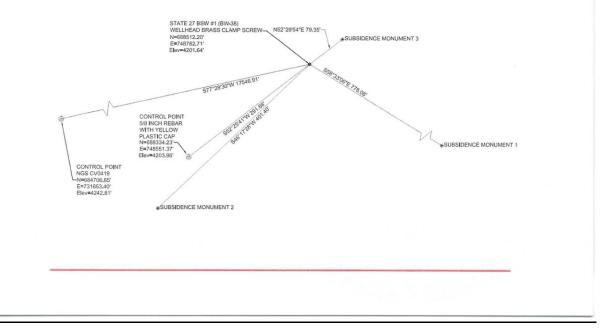


SUBSIDENCE MONUMENT SURVEY

On February 27, 2019 a field survey was conducted to set and observe positions of three new subsidence monuments for the State 27 BSW #1 (BW-38) Llano Wellhead located at: N33°13'21.03893", W103°18'55.69480". The well location and associated subsidence monuments can be accessed from Highway 82, approximately 6.5 miles East of Maljamar, NM in Lea County.

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





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The discussion was to set at least three monuments at varying distances from the well head. The three monuments were set at differing distances in three separate directions.

This survey was conducted using Trimble R10 GNSS Receivers and a Trimble S6. 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 CV0419 is located approximately 17,546.91 feet or 3.31 miles southwest of the well site. A Control Point (10-A 5/8-inch rebar with a yellow plastic cap) was set close to the project's location. A GNSS base was setup over the point and static data was observed for nearly two hours. The data was then submitted to an online positioning service to firmly establish the horizontal coordinates:

Latitude: N32°53'25.53739", Longitude: W103°39'29.79702" with an elevation of 4203.96 feet. Once this position was established, the NGS Monument (CV0419) was verified for accuracy.

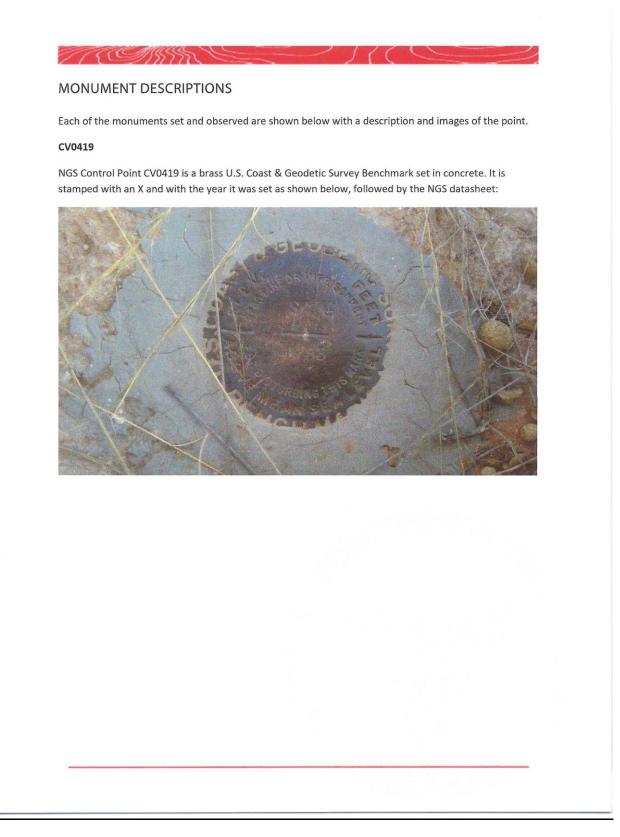
While, the accepted elevation for the point was used. The Trimble S6 was then used to accurately establish the elevation of the monuments and the wellhead in relation to the NGS control point featured above in the Google Maps screenshot. The data is stored onboard and may be transferred directly into the computer software at the office for analysis of results, ensuring greater accuracy.

SUBSIDENCE MONITORING PLAN

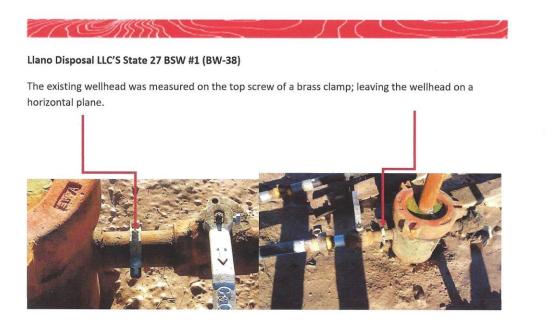
The NGS Control Point CV0419, with an observed elevation of 4242.79 feet above mean sea level (MSL), will be used as the Reference Control Point for determining the elevations of the newly placed Subsidence Monuments. The elevations of these monuments will be observed semi-annually by a level loop run with the DiNi level to ensure accuracy and precision.

Future observations made on all available points and tabulated to compare the elevations to the base elevations were established on February 27, 2019. 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.

2019



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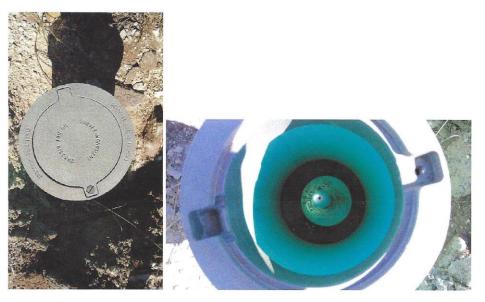


2019



Subsidence Monument 1

A Berntsen three quarter inch Aluminum Top Security Sleeve Monument was set. 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:



2019



Subsidence Monument 2

A Berntsen three quarter inch Aluminum Top Security Sleeve Monument was set. 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:



2019



Subsidence Monument 3

A Berntsen three quarter inch Aluminum Top Security Sleeve Monument was set. 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



2019

STATE PLANE POINT REPORT FROM TRIMBLE BUSINESS CENTER

Project file data	and the second second second	Coordinate System	Landard and a second second second
Name:	Z:\2019.1018\Field Data	Name:	United States/State Plane 1983
Size:	\LianoDisposal_BSW#1.vce 74 KB	Datum:	NAD 1983 (Conus)
Modified:	3/12/2019 8:08:14 AM (UTC:-6)	Zone:	New Mexico East 3001
Time zone:	Mountain Standard Time	Geoid:	GEOID12B (Conus)
Reference number:	Mountain olandara mino	Vertical datum:	
Description:		Calibrated site:	Default
Comment 1:			
Comment 2:			
Comment 3:			

Additional Coordinate System Details

Local Site Settings				
Project latitude:	N32.89043	Ground scale factor:	1.00023945679565	
Project longitude:	W 103.65826	False northing offset:	0.000	
Project height:	4131.494	False easting offset:	0.000	

Point List

ID	Northing (US survey foot)	Easting (US survey foot)	Elevation (US survey foot)	Feature Code
1	684706.851	731653.399	4242.814	CV0419
500	688512.204	748782.710	4201.637	WELLHEAD BRASS CLAMP SCREW
501	688106.256	749446.501	4198.647	SUBSIDENCE MONUMENT 1
502	688234.839	748492.553	4205.138	SUBSIDENCE MONUMENT 2
503	688560.510	748845.660	4201.367	SUBSIDENCE MONUMENT 3

3/12/2019 2:29:32 PM	Z:\2019.1018\Field Data	Trimble Business Center
	\LianoDisposal_BSW#1.vce	

2019

LAT/LONG POINT REPORT FROM TRIMBLE BUSINESS CENTER

Project file data		Coordinate System	
Name:	Z:\2019.1018\Field Data \LianoDisposal BSW#1.vce	Name:	United States/State Plane 1983
Size:	74 KB	Datum:	NAD 1983 (Conus)
Modified	3/12/2019 8:08:14 AM (UTC:-6)	Zone:	New Mexico East 3001
Time zone:	Mountain Standard Time	G eoid:	GEOID12B (Conus)
Reference number:		Vertical datum:	
Description:		Calibrated site:	Default
Comment 1:			
Comment 2:			
Comment 3:			

Additional Coordinate System Details

Local Site Settings			
Project latitude:	N32.89043	Ground scale factor:	1.00023945679565
Project longitude:	W 103.65826	False northing offset:	0.000
Project height:	4131.494	False easting offset:	0.000

Point List Height (Local) (US survey foot) ID Latitude (Local) Longitude (Local) Feature Code N32.88074 W103.71338 4170.055 CV0419 WELLHEAD BRASS CLAMP SCREW 500 N32.89091 W103.65752 4129.175 SUBSIDENCE 501 N32.88978 W103.65537 4126.189 MONUMENT 1 SUBSIDENCE MONUMENT 2 502 N32.89015 W103.65847 4132.669 503 N32.89104 W103.65731 4128.905 SUBSIDENCE MONUMENT 3

3/12/2019 2:28:27 PM	Z:\2019.1018\Field Data \LianoDisposal BSW#1.vce	Trimble Business Center

2019 **Annual Report** Llano Disposal, LLC BW-38 API 30-025-20592 1 5 CONSSENT NATIONAL GEODETIC SURVEY DATA SHEET: The information used in this report was obtained using the benchmark search engine http://benchmarks.scaredycatfilms.com/index.php## to locate the benchmark and the https://www.geocaching.com/play website to generate a pdf copy of the original datasheet shown below. The NGS Data Sheet See file dsdata.pdf for more information about the datasheet. PROGRAM = datasheet95, VERSION = 8.12.5.2 National Geodetic Survey, Retrieval Date = JANUARY 24, 2019 CV0419 CV0419 DESIGNATION - S 34 - CV0419 CV0419 PID CV0419 STATE/COUNTY- NM/LEA CV0419 COUNTRY - US CV0419 USGS QUAD - BUCKEYE NW (1985) CV0419 CV0419 *CURRENT SURVEY CONTROL CV0419 CV0419* NAD 83(2011) POSITION- 32 52 50.67906(N) 103 42 48.16824(W) ADJUSTED CV0419* NAD 83(2011) ELLIP HT- 1271.020 (meters) (06/27/12) ADJUSTED CV0419* NAD 83(2011) EPOCH - 2010.00 CV0419* NAVD 88 ORTHO HEIGHT - 1293.204 (meters) 4242.79 (feet) ADJUSTED CV0419 CV0419 GEOID HEIGHT --22,177 (meters) GEOID12B CV0419 NAD 83(2011) X - -1,271,316.646 (meters) CV0419 NAD 83(2011) Y - -5,209,862.727 (meters) COMP COMP CV0419 NAD 83(2011) Z - 3,443,549.027 (meters) CV0419 LAPLACE CORR - 1.99 (seconds COMP CV0419 LAPLACE CORR 1.99 (seconds) DEFLEC12B 1291.396 (meters) 4236.85 (feet) COMP CV0419 DYNAMIC HEIGHT -CV0419 DINAMIC HEIGHT - 1291.596 (meters CV0419 MODELED GRAVITY - 979,194.1 (mgal) NAVD 88 CV0419 CV0419 VERT ORDER - FIRST CLASS II CV0419 CV0419 Network accuracy estimates per FGDC Geospatial Positioning Accuracy

 CV0419
 Standards:

 CV0419
 FGDC (95% conf, cm)
 Standard deviation (cm)
 CorrNE

 CV0419
 Horiz Ellip
 SD_N
 SD_E
 SD_h
 (unitless)

 CV0419
 NETWORK
 0.65
 1.76
 0.28
 0.25
 0.90
 -0.06077748

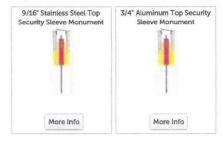
Page | 31

Llano Disposal, LLC BW-38 API 30-025-20592

2019



Top Security Sleeve Rod Monuments



Berntsen Sectional Rod Monument with Floating Sleeve

Berntsen's exclusive Top Security™ Sleeve 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,

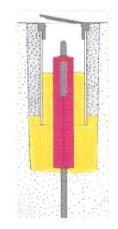


ofour

NGS-Style monuments

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 SecurityTM finned 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. Annual Report

2019

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APPENDIX D

Sundries

2019

Submit 1 Copy To Appropriate District	State of New M		Form C-103
District 1 - (575) 393-6161	Energy, Minerals and Na	atural Resources	Revised July 18, 2013
625 N. French Dr., Hobbs, NM 88240		CV	WELL API NO.
District II - (575) 748-1283 811 S. First St., Artesia, NM 88210	OIL CONSERVATIO	ON DIVISION	30-025-20592
District III - (505) 334-6178	1220 South St. Fr	rancia Or.	5. Indicate Type of Lease
000 Rio Brazos Rd., Aztec, NM 87410 District IV - (505) 476-3460	Santa Fe, NM	8305 020	STATE
220 S. St. Francis Dr., Santa Fe, NM 37505		APR IN	State Off & Gas Lease No.
SUNDRY NO	TICES AND REPORTS ON WEL	LS	7. Lease Name or Unit Agreement Name
DO NOT USE THIS FORM FOR PROP DIFFERENT RESERVOIR. USE "APPI PROPOSALS.)	POSALS TO DRILL OR TO DEEPEN OR LICATION FOR PERMIT" (FORM C-101	PLUG BACKAAA) FOR SUCH	State 27
I. Type of Well: Oil Well	Gas Well 🛛 Other - PxA We	II Re-entry	8. Well Number 1
2. Name of Operator	Llano Disposal, LLC	-	9. OGRID Number 370661
3. Address of Operator			10. Pool name or Wildcat
	ox 190, Lovington, NM 88260		BSW; Salado
 Well Location 			
Unit Letter L		South line and	660 feet from the West line
Section 27	Township 16S	Range 33E	NMPM Lea County
	11. Elevation (Show whether L		
	420	01' GL	
12 Charle	Anneopeliata Davida Indianda	Net CNL C	D ol D
12. Check	Appropriate Box to Indicate	Nature of Notice,	Report or Other Data
NOTICE OF I	NTENTION TO:	SUB	SEQUENT REPORT OF
ERFORM REMEDIAL WORK		REMEDIAL WOR	
EMPORARILY ABANDON	-		
ULL OR ALTER CASING		CASING/CEMEN	
		CASING/CEWEN	іт јов
		CASING/CEMEN	II JOB
OWNHOLE COMMINGLE			
OOWNHOLE COMMINGLE]] NL and caliper log 🛛	OTHER:	
DOWNHOLE COMMINGLE CLOSED-LOOP SYSTEM DTHER: Re-entry to run CBL, C 13. Describe proposed or com]] NL and caliper log 🛛 🖂 upleted operations. (Clearly state a	OTHER:	id vive pertinent dates, including estimated data
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A notice of intent. This form was submitted by Llano Agent, Danny Holcomb, for the purpose of notifying OCD that Llano intended to prepare the location for a re-entry attempt; reestablish the original roadway and pad; excavate the original casing; remove the dry hole marker; and then install BOP equipment. Based on previously submitted well files, Llano described how the re-entry was anticipated to be accomplished and what other actions would be taken.

2019

Office <u>District I</u> – (575) 1625 N. French D <u>District II</u> – (575)	202 (1/1		State of New 1			
1625 N. French D		Energ	y, Minerals and N			Form C-103 Revised July 18, 2013
District II - (575)	or., Hobbs, NM 8824		y, minerals and r	anarar resources	WELL API NO.	
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	Rd., Aztec, NM 874	10	1220 South St. F	rancioBBS O	STATE D	FEE
District IV - (505) 476-3460		Santa Fe, NM	87505	6. State Oil & Gas	Lease No.
1220 S. St. Franci 87505	is Dr., Santa Fe, NM	(JUN 01 2018		
	SUNDRY N	NOTICES AND F	REPORTS ON WEI	LS PLURECEIVED	7. Lease Name or	Unit Agreement Name
(DO NOT USE T	HIS FORM FOR PF	ROPOSALS TO DRI	LL OR TO DEEPEN OR	PLUCIECEN		/ \
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2. Name of O				ch Re-end y	9. OGRID Numbe	T (Panding
		Llano Dispos	al, LLC		3	370661
Address of		Por 100 Louing	ton NIA 88260		10. Pool name or V	
4. Well Locat		Box 190, Loving	gion, NM 88200		BS	W; Salado (96173)
	Letter L	. 1090	6			
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Section	on 27		Township 16S	Range 33E DR, RKB, RT, GR, etc.)	NMPM Le	ea County
i i de la com		11. Eleval		DR, RKB, RT, GR, etc.) 01' GL	r_{γ}	Sec. Strategy and sec.
					612-6-12-5	
	12. Che	ck Appropriate	e Box to Indicate	Nature of Notice,	Report or Other I	Data
	NOTICE OF			- SUR	SEQUENT REP	
PERFORM R	EMEDIAL WORK		DABANDON	REMEDIAL WORK		
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CLOSED-LOC OTHER:	PSTSTEN		· · · · · · · · · · · · · · · · · · ·	OTUTO		
	he proposed on a			OTHER: Re-entry	to run CBL, CNL an	d caliper log , including estimated date
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This C103 was submitted after accomplishing the work outlined in the previous C103. All plugs were encountered as listed by the previous operator and were drilled out accordingly. As agreed, Llano ran a CBL log, Compensated Neutron Log, and casing caliper log from 4511' to surface. These logs were submitted to NMOCD for review.

Llano Disposal, LLC BW-38 API 30-025-20592

District I – (575) 393-6161 Energy, Minerals and Natural	Resources Revised July 18, 2013
1625 N. French Dr., Hobbs, NM 8824900000000000000000000000000000000000	WELL API NO.
District I - (575) 393-6161 1625 N. French Dr., Hobbs, NM 88240 District II - (575) 748-1283 811 S. First St., Artesia, NM 88210 District III - (505) 334-6178 LOUI A A and 200 South St. Exercise	VISION 31-025-20592
District III - (505) 334-6178	5. Indicate Type of Lease
1000 Bio Brance Bd. Artes MA 97410 NUV 0 6 7/18 220 South St. Flancis	DI. STATE DY FEE
District IV - (505) 476-3460 Santa Fe, NM 8750	5 6. State Oil & Gas Lease No.
District IV – (505) 476-3460 1220 S. St. Francis Dr., Santa Fe, NM RECEIVED	
SUNDRY NOTICES AND REPORTS ON WELLS	7 Long Name of Dail American
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG B	7. Lease Name or Unit Agreement Name
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SI	UCH STATE 27
PROPOSALS.)	
1. Type of Well: Oil Well Gas Well Other Brine	
2. Name of Operator	9. OGRID Number 3769661
2. Name of Operator 1. Address of Operator 3. Address of Operator 3. Address of Operator	378661
3. Address of Operator 88	2.60 10. Pool name or Wildcat
A.D. Box 250 LOVINGTON	nm Brine (96173)
4. Well Location	1111 DILLO (14-13)
Unit Letter L : 1980 feet from the 5	line and 660 feet from the 162 line
192	
11. Elevation (Show whether DR, RK	B, RT, GR, etc.)
4201	
12. Check Appropriate Box to Indicate Nature	re of Notice, Report or Other Data
NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK DLUG AND ABANDON D TEMPORARILY ABANDON CHANGE PLANS C	SUBSEQUENT REPORT OF: EMEDIAL WORK
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I hereby certify that the information above is true and complete to the best of my knowledge and belief.

11/5/18

Rig Release Date:

A notice of intent form notifying OCD that Llano planned to rig up to proceed with completion activities as approved under permit.

Spud Date:

Released to Imaging: 11/9/2022 1:56:40 PM

Llano Disposal, LLC BW-38 API 30-025-20592

Submit 1 Copy To Appropriate District State of New Mexico Office District J - (575) 393-6161 Energy, Minerals and Natural Resources	Form C-103 Revised July 18, 2013
I625 N. French Dr., Hobbs, NM 88240 District II - (375) 748-1283 Bill S. First St., Artesia, NM 88210 District III - (505) 334-6178 1000 Rio Brazos Rd, Aztec, NM 8740 District IV - (305) 476-3460 1220 S. S. Francis Dr., Santa Fe, NM 87505	WELL API NO. 30 - 025 - 20592 5. Indicate Type of Lease STATE FEE 6. State Oil & Gas Lease No. RS W
87505 SUNDRY NOTICES ANTEREPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSAL COMPLUE AND FOR PERMIT'S ON WELLS DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.) 1. Type of Well: Oil Well Gas Well Other BS W	7. Lease Name or Unit Agreement Name STATE Z 7 8. Well Number
2. Name of Operator 3. Address of Operator	9. OGRID Number 3 7 0 66/ 10. Pool name or Wildcat
170x 250, Loving-ron M.M., 88260 4. Well Location	SALANO
Unit Letter <u>27</u> <u>1980</u> feet from the <u>5</u> line and <u>1880</u> Section <u>27</u> Township <u>165</u> Range <u>33</u> <u>15</u> 11. Elevation (Show whether DR, RKB, RT, GR, etc.,	hereform the wine line NMPM County Len

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

NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK PLUG AND ABANDON TEMPORARILY ABANDON CHANGE PLANS PULL OR ALTER CASING MULTIPLE COMPL DOWNHOLE COMMINGLE	SUBSEQUENT REPORT OF: REMEDIAL WORK ALTERING CASING COMMENCE DRILLING OPNS. P AND A CASING/CEMENT JOB
CLOSED-LOOP SYSTEM	OTHER: RC-Enray COMPLETE,
 Describe proposed or completed operations. (Clearly state all p of starting any proposed work). SEE RULE 19.15.7.14 NMAC proposed completion or recompletion. 	ertinent details, and give pertinent dates, including estimated date 2. For Multiple Completions: Attach wellbore diagram of
Per plan ourlineo in	nmocos pennir 135w038,
CUT A window in The	e 95/8" CASING, then
Drilles into The SALI	
SALT BEARING STRAFA.	Run temp propuerion n (Fresh Down tubins, Brine up
STRING TO CIRCULATE CLEAN	
Spud Date: Rig Release Date	e: 12/6/18 (HSink),
I hereby certify that the information above is true and complete to the best	st of my knowledge and belief.
SIGNATURE A Canin Burrow PITLE A	Gent for DATE 12/14/11
Type or print name MARVIN BURNUWE-mail address; For State Use Only	BUMMOWS MANNINPHONE: 631-8067 GMAILICON
Car Car	
APPROVED BY:	Petroleum Engineer DATE 12/17/18

A subsequent report of work done notifying OCD that Llano had accomplished completion work as prescribed BW38 permit as issued.

2019

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Llano Disposal, LLC BW-38 API 30-025-20592

2019

Submit 1 Copy To Appropriate District Office	State of New Me			Form C-103	
District 1 - (575) 393-6161 1625 N. French Dr., Hobbs, NM 88240	Energy, Minerals and Natu	Г	Revised July 18, 2013	, ,	
District II (575) 748-1283 811 S. First St., Artesia, NM 88210 District III (505) 334-6178	OIL CONSERVATION		WELLAPINO. 30-025	- 20592	
1000 Rio Brazos Rd., Aztec, NM 87410	1220 South St. Fran Santa Fe, NM 82		5. Indicate Type of Lease STATE FEE		
1220 S. St. Francis Dr., Santa Fe, NM 87505	Santa Fe, NM 8	JAN 1 1 2019	. State Oil & G	as Lease No.	1
		JAN ENE	STATE	SALADD	
SUNDRY NOTIC (DO NOT USE THIS FORM FOR PROPOS DIFFERENT RESERVOIR. USE "APPLIC, PROPOSALS.) 1. Type of Well: Oil Well Gas	SES AND REPORTS ON WELLS ALS TO DRILL OR TO DEEPEN OR PLI ATION FOR PERMIT" (FORM C-101) FC	UG BOOK TO A	7. Lease Name o	or Unit Agreement Name	1
PROPOSALS.) 1. Type of Well: Oil Well Gas	Well Other X BSu	>	8. Well Number		-
2 Name of Operator			0 OGRID Num		-
LLAND DISP	os AL, LLC		370	661	
3. Address of Operator		88260	10. Pool name or		1
P.O. Box	OSAL, LLC 250, Lovingroun n	м,	SALA	DD BSW	
4. Well Location					٦.
Unit Letter :	1980 feet from the 5			om the <u>ω</u> line	11
Section 27	Township 165 Ra	inge 38E	NMPM	County Le #	
	11. Elevation (Show whether DR,	RKB, RT, GR, etc.)			
					6
12. Check Ap	propriate Box to Indicate Na	I	Report or Other		
PERFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WOR	ĸ	ALTERING CASING	95
TEMPORARILY ABANDON	CHANGE PLANS	COMMENCE DRI	LLING OPNS.	P AND A	
PULL OR ALTER CASING	MULTIPLE COMPL	CASING/CEMEN	Г JOB		
DOWNHOLE COMMINGLE					
CLOSED-LOOP SYSTEM	une Test.	OTHER:			
Describe proposed or complet	ed operations. (Clearly state all po.). SEE RULE 19.15.7.14 NMAC.	ertinent details and	give pertinent date	es, including estimated dat	e
proposed completion or recon	ipletion.	. For Muniple Con		A CAS	se.
ELAND Dispi	use for The	Ke TD	Schedul	e i cita	1.00
CAVITY PRESS.	une for T	hir wel	lon,	rniony)	
JAN 11, 20	19, AT 10:0	0 Am			
oud Date:	Rig Release Dat				
hereby certify that the information ad	ove is a use and complete to the bes	st of my knowncage	and bener.		
GNATURE Man To un	rous TITLE A	sent fo	A DA	TE 14/19	
pe or print name MANVIN Jo or State Use Only	unnous E-mail address:	BURROWS	MARVINPH	ONE: 575-6.	31-
PPROVED BY Grand	TITLE	Petroleum En	ngineer DA	TE 1/ 15/2019	>
$\mathcal{O}\mathcal{O}\mathcal{O}$	· · · · · · · · · · · · · · · · · · ·				

A notice of intent notifying OCD that Llano planned to run a brine cavity pressure test. Stipulated date and time in notice. This test was cancelled due to a lack of available service equipment.

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Annual Report Llano Disposal, LLC BW-38 API 30-025-20592

2019

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	OIL CONSERVATION DIVISION	30.825 20584
811 S. First St., Artesia, NM 88210 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 STATE
District IV – (505) 476-3460 1220 S. St. Francis Dr., Santa Fe, NM	Channel 1 0, 1414 07505	State Oil & Gas Lease No.
87505	IOPC AND BEBODES ON WELLS	
	ICES AND REPORTS ON WELLS DISALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A	7. Lease Name or Unit Agreement Name
DIFFERENT RESERVOIR. USE "APPL	CATION FOR PERMIT" (FORM C-101) FOR SUCH	State 27
PROPOSALS.) 1. Type of Well: Oil Well	Gas Well A Other RSW	8. Well Number ((2.56) 38%
2. Name of Operator 1 S	21110	9. OGRID Number
Lland D' Spi	sar uc	370661
3 Address of Operator	lin in the line Acrica	10. Pool name or Wildcat
4. Well Location	Vovington UniO8260	Brine (gleits)
4. Wen Location Unit Letter L	1980 feet from the 5 line and 4	2 (c) feet from the W line
Section 27	Township 16 S Range 332	NMPM County Lea
al	11. Elevation (Show whether DR, RKB, RT, GR, etc.	
	4201	LECTY EVEN AND A
12. Check	Appropriate Box to Indicate Nature of Notice,	Report or Other Data
NOTICE OF I	VTENTION TO: SUE	SEQUENT REPORT OF:
PERFORM REMEDIAL WORK	PLUG AND ABANDON REMEDIAL WOR	
TEMPORARILY ABANDON		ILLING OPNS.
PULL OR ALTER CASING	MULTIPLE COMPL	IT JOB
CLOSED-LOOP SYSTEM	1	
OTHER: COS, NO/CO	WILL TEST BI OTHER:	
 Describe proposed or com 	pleted operations. (Clearly state all pertinent details, ar	d give pertinent dates, including estimated date
of starting any proposed w proposed completion or re	ork). SEE RULE 19.15.7.14 NMAC. For Multiple Co	mpletions: Attach wellbore diagram of
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Lano NiSPO	sal LLC Would i uits pressure fest e 28 2019 @ 8.	ill to trekule
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in Carsing/Cer	Jotg pressure test	Forth's well
	10 0 6	1 O.) A 40
ON DUM	0 18 2017 @ 0.	oram
	- 0 0 0	
Spud Date:	Rig Release Date:	
L		
I hereby certify that the information	above is true and complete to the best of my knowledge	ge and belief.
Pec		1 11 10
SIGNATURE	ins THE Agent	DATE (0-21-19
FILL FILL	all Constring Sources	
Type or print name Elitat	concerts in the mail address: Der Vile	0 [19 NO PHONE: 171002 1903
1	eth Cacilin SE-mail address: Service (Charles Environdry Eng	DI ine com
APPROVED BY: Carl J.	UK TITLE Environdry Eng	V. DATE 6/21/19
Conditions of Approval (if any).		

A notice of intent form submitted to the prior C103 that had to be cancelled due to inability to secure pump truck services. This test was also not performed – weather related.

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Llano Disposal, LLC BW-38 API 30-025-20592

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20	-	-

Submit 1 Copy To Appropriate District	State of New Mexico	Form C 102
Office		Form C-103
District I - (575) 393-6161	Energy, Minerals and Natural Resour	Ces Revised July 18, 2013 WELL API NO.
1625 N. French Dr., Hobbs, NM 88240 District II - (575) 748-1283		
811 S. First St., Artesia, NM 88210	OIL CONSERV HOBBS 190	
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 19750 2019	STATE S FEE
District IV (505) 476-3460 1220 S. St. Francis Dr., Santa Fe, NM	Salla PC, Midd Soft Lord	6. State Oil & Gas Lease No.
87505		
	ICES AND REPORTS ON WELLS	7. Lease Name or Unit Agreement Name
(DO NOT USE THIS FORM FOR PROPO	DSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO	
DIFFERENT RESERVOIR. USE "APPLI	CATION FOR PERMIT" (FORM C-101) FOR SUCH	", ", The ", J + "
PROPOSALS.)		8. Well Number 1 / On St > 2.9.3
1. Type of Well: Oil Well	Gas Well & Other BSW	8. Well Number (\$ 5 38)
2. Name of Operator	0.1.0	9. OGRID Number
Llano DiSPOSO	I LLC	370661
3. Address of Operator		10. Pool name or Wildcat
POBOX 250 Loui 4. Well Location	ngton NM 88260	Brine (94173)
	1980 feet from the S line :	and 660 feet from the W line
Section 27	Township 165 Range 33	E NMPM County La
	11. Elevation (Show whether DR, RKB, RT,	GR. etc.)
	4201	
12. Check	Appropriate Box to Indicate Nature of N	lotice, Report or Other Data
NOTICE OF I	NTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK		
TEMPORARILY ABANDON		ICE DRILLING OPNS. P AND A
PULL OR ALTER CASING		CEMENT JOB
DOWNHOLE COMMINGLE		
CLOSED-LOOP SYSTEM		
OTHER: Casing/Caus	the test DI OTHER:	П
Describe proposed or composed or composed	pleted operations. (Clearly state all pertinent de	tails, and give pertinent dates, including estimated date
of starting any proposed w	ork). SEE RULE 19.15.7.14 NMAC. For Mult	iple Completions: Attach wellbore diagram of
proposed completion or m	normalistican	
0 0	٨	
AD 0	1220	1 1: Koto Nohodure a
dlang Ding	ALL WOULD	a mus a part
	And CO	s well on July 31
and to the	1. 1 Pott	ALVELOY JULY Y
asing/ Cality 71	estive base 100000	
51000 3 1		2019
		0011
00.20		
(0) (3) (3) (0)		
C C		
	······	
Spud Date:	Rig Release Date:	
I hereby certify that the information	above is true and complete to the best of my kr	owledge and belief.
	······································	
CALL.		
SIGNATURE	TITLE fgent	DATE + - 24-19
mana Elisatio	. (
Type or print name Eli Zabet	LOQSK: nS E-mail address: Serv	1 ce la la no PHONE: 575-602-250
For State Use Only	L 69.5K : SET E-mail address: Set v	brine.com
APPROVED BY: Kenny 7	T I I	Offin A DATE 7-25-19
APPROVED BY: 14/10 T	when TITLE Compliance	Uffin A DATE 1-63-19
Conditions of Approval (if(any):		

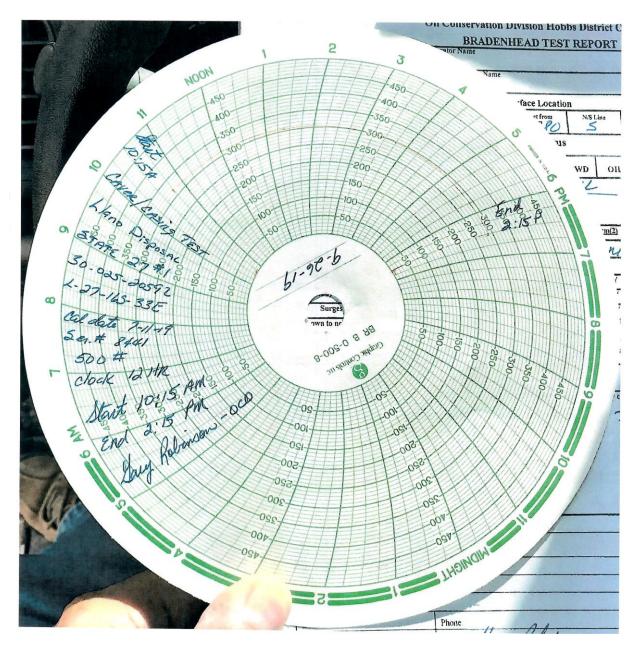
A notice of intent form to give notice again, of a brine cavity test to be performed on this well.

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2019



Llano Disposal, LLC BW-38 API 30-025-20592



Subsequent to previous notices, resolution of procedure, and in coordination with OCD, a brine cavity pressure test was run on 7/11/19 with NMOCD Gary Robinson witness. The well passed the 3-hour pressure test requirement, and so resumed brine operation.

2019

APPENDIX E

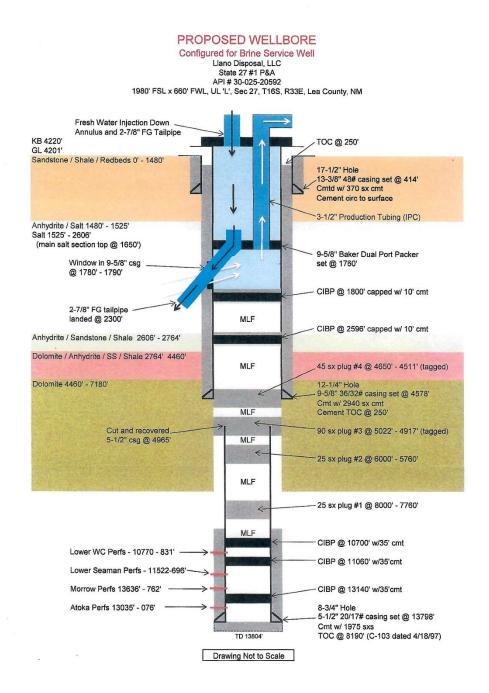
Well Diagrams

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Llano Disposal, LLC BW-38 API 30-025-20592

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2019

APPENDIX F

Chemical Analysis

.

Llano Disposal, LLC BW-38 API 30-025-20592

2019



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

July 16, 2018

MARVIN BURROWS

LLANO DISPOSAL, LLC

125 W. ST. ANNE HOBBS, NM 88240

RE: CAPROCK BSW

Enclosed are the results of analyses for samples received by the laboratory on 07/09/18 15:30.

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.tccq.texas.gov/field/ga/lab_accred_certif.html.

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. Keine

Celey D. Keene Lab Director/Quality Manager

Page 1 of 9

Annual Report Llano Disposal, LLC BW-38 API 30-025-20592



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

Analytical Results For:

LLANO DISPOSAL, LLC 125 W. ST. ANNE HOBBS NM, 88240		oject Number:	MARVIN BURROWS	Reported: 16-Jul-18 09:40
Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Sample a Sample B	H801855-01 H801855-02	Water Water	09-Jul-18 14:45 09-Jul-18 14:45	09-Jul-18 15:30 09-Jul-18 15:30

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Celey D. Keene, Lab Director/Quality Manager

Page 2 of 9

Llano Disposal, LLC BW-38 API 30-025-20592



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	roject: CAP mber: NON nager: MAR ax To: NON	ie given Vin Burr				Reported: 16-Jul-18 09:4	10
SAMPLE A H801855-01 (Water)										
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardir	al Laborat	ories					
Inorganic Compounds					^					
Alkalinity, Bicarbonate	190		5.00	mg/L	1	8062505	AC	10-Jul-18	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	8062505	AC	10-Jul-18	310.1	
Chloride*	36.0		4.00	mg/L	1	8070501	AC	10-Jul-18	4500-Cl-B	
Conductivity*	480		1.00	uS/cm	1	8071001	AC	10-Jul-18	120.1	
pH*	7.73		0.100	pH Units	1	8071001	AC	10-Jul-18	150.1	
Sulfate*	34.3		10.0	mg/L	1	8071002	AC	10-Jul-18	375.4	
TDS*	324		5.00	mg/L	1	8070311	AC	11-Jul-18	160.1	
Alkalinity, Total*	156		4.00	mg/L	1	8062505	AC	10-Jul-18	310.1	
			Green Ana	lytical Labo	oratories					
Total Recoverable Metals by	ICP (E200.7)									
Calcium*	70.9		1.00	mg/L	10	B807085	JDA	12-Jul-18	EPA200.7	
Magnesium*	8.93		1.00	mg/L	10	B807085	JDA	12-Jul-18	EPA200.7	
Potassium*	2.86	0.677	10.0	mg/L	10	B807085	JDA	12-Jul-18	EPA200.7	
Sodium*	15.2		10.0	mg/L	10	B807085	JDA	12-Jul-18	EPA200.7	

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Celey D. Keene, Lab Director/Quality Manager

Page 3 of 9

CARDINAL Laboratories

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

Analytical Results For:

Llano Disposal, LLC BW-38 API 30-025-20592

LLANO DISPOSAL, LLC 125 W. ST. ANNE HOBBS NM, 88240	Project: CAPROCK BSW Project Number: NONE GIVEN Project Manager: MARVIN BURROWS Fax To: NONE							Reported: 16-Jul-18 09:40		
	12			AMPLE B 855-02 (Wa						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Inorganic Compounds					~					
Alkalinity, Bicarbonate	181		5.00	mg/L	1	8062505	AC	10-Jul-18	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	8062505	AC	10-Jul-18	310.1	
Chloride*	48.0		4.00	mg/L	1	8070501	AC	10-Jul-18	4500-CI-B	
Conductivity*	468		1.00	uS/cm	1	8071001	AC	10-Jul-18	120.1	
pH*	7.86		0.100	pH Units	1	8071001	AC	10-Jul-18	150.1	
Sulfate*	34.0		10.0	mg/L	1	8071002	AC	10-Jul-18	375.4	
TDS*	310		5.00	mg/L	1	8070311	AC	11-Jul-18	160.1	
Alkalinity, Total*	148		4.00	mg/L	1	8062505	AC	10-Jul-18	310.1	

			Green Ana	lytical Labo	ratories					
Total Recoverable Metals	by ICP (E200.7)									
Calcium*	47.0		1.00	mg/L	10	B807085	JDA	12-Jul-18	EPA200.7	
Magnesium*	9.14		1.00	mg/L	10	B807085	JDA	12-Jul-18	EPA200.7	
Potassium*	2.49	0.677	10.0	mg/L	10	B807085	JDA	12-Jul-18	EPA200.7	J
Sodium*	38.4		10.0	mg/L	10	B807085	JDA	12-Jul-18	EPA200.7	5

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Llano Disposal, LLC BW-38 API 30-025-20592



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

Analytical Results For:

Project:	CAPROCK BSW	Reported:
Project Number:	NONE GIVEN	16-Jul-18 09:40
Project Manager:	MARVIN BURROWS	
Fax To:	NONE	
	Project Number: Project Manager:	Project: CAPROCK BSW Project Number: NONE GIVEN Project Manager: MARVIN BURROWS Fax To: NONE

Inorganic Compounds - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 8062505 - General Prep - Wet Chem										
Blank (8062505-BLK1)				Prepared &	Analyzed:	25-Jun-18				
Alkalinity, Carbonate	ND	1.00	mg/L							
Alkalinity, Bicarbonate	5.00	5.00	mg/L							
Alkalinity, Total	4.00	4.00	mg/L							
LCS (8062505-BS1)				Prepared &	Analyzed:	25-Jun-18				
Alkalinity, Carbonate	ND	2.50	mg/L				80-120			
Alkalinity, Bicarbonate	305	12.5	mg/L				80-120			
Alkalinity, Total	250	10.0	mg/L	250		100	80-120			
LCS Dup (8062505-BSD1)				Prepared &	Analyzed:	25-Jun-18				
Alkalinity, Carbonate	ND	2.50	mg/L				80-120		20	
Alkalinity, Bicarbonate	355	12.5	mg/L				80-120	15.2	20	
Alkalinity, Total	290	10.0	mg/L	250		116	80-120	14.8	20	
Batch 8070311 - Filtration										
Blank (8070311-BLK1)				Prepared: 0	3-Jul-18 A	nalyzed: 09	-Jul-18			
TDS	ND	5.00	mg/L							
LCS (8070311-BS1)				Prepared: 0	3-Jul-18 A	nalyzed: 05	-Jul-18			
TDS	482	5.00	mg/L	527		91.5	80-120			
Duplicate (8070311-DUP1)	Sou	rce: H801800-	02	Prepared: 0	3-Jul-18 A	nalyzed: 05	-Jul-18			
TDS	1730	5.00	mg/L		1720			0.348	20	
Batch 8070501 - General Prep - Wet Chem										
Blank (8070501-BLK1)				Prepared &	Analyzed:	05-Jul-18				
Chloride	4.00	4.00	mg/L						7 1/200	2

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Annual Report	Llano Disposal, LLC BW-38 API 30-025-20592	
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2019

Labora	llorie	S	_	РНО	NE (575) 39	3-2326 ° 1	01 E. MAR	LAND ° HOI	3BS, NM 88	240
		Analyt	ical Res	sults For						
LLANO DISPOSAL, LLC			Project:	CAPROCK B	SW				Reported:	
125 W. ST. ANNE				NONE GIVE				16-	Jul-18 09	:40
HOBBS NM, 88240			anager: Fax To:	Marvin Bu None	RROWS					
ь. -	Ino	rganic Con	npounds	- Ouality	Control					
				oratories						
Analyte	Result	Reporting		Spike	Source	1	%REC	Auropa na	RPD	
		Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Not
Batch 8070501 - General Prep - Wet (LCS (8070501-BS1)	Chem									-
Chloride	100	4.00	mall	Prepared &	Analyzed:		00.100			
	100	4.00	mg/L	100		100	80-120			
LCS Dup (8070501-BSD1)				Prepared &	Analyzed:	05-Jul-18				
Chloride	96.0	4.00	mg/L	100		96.0	80-120	4.08	20	
Batch 8071001 - General Prep - Wet C	Chem									
LCS (8071001-BS1)				Prepared &	Analyzed:	10-Jul-18				
pH	7.06		pH Units	7.00		101	90-110			
Conductivity	478		uS/cm	500		95.6	80-120			
Duplicate (8071001-DUP1)	Sou	rce: H801855	-01	Prepared &	Analyzed:	10-Jul-18				
Conductivity	483	1.00	uS/cm	•	480			0.623	20	
pH	7.77	0.100	pH Units		7.73			0.516	20	
Batch 8071002 - General Prep - Wet C	Chem									
Blank (8071002-BLK1)				Prepared &	Analyzed:	10-Jul-18				
Sulfate	ND	10.0	mg/L		,,					
LCS (8071002-BS1)				Prepared &	Analyzed	10-Jul-18				
Sulfate	22.1	10.0	mg/L	20.0	. maryzou.	110	80-120			
Sunate	22.1	10.0	mg/L	20.0		110	00-120			
LCS Dup (8071002-BSD1)	22.1	10.0	mg/L	Prepared &			80-120			

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Annual Report Llano Disposal, LLC BW-38 API 30-025-20592



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

Analytical Results For:

LLANO DISPOSAL, LLC		CAPROCK BSW	Reported:
125 W. ST. ANNE	Project Number:	NONE GIVEN	16-Jul-18 09:40
HOBBS NM, 88240	Project Manager:	MARVIN BURROWS	
	Fax To:	NONE	.*

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

Green Analytical Laboratories

Analyte	D I.	Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B807085 - Total Rec. 200.7/200.8/200	.2									
Blank (B807085-BLK1)				Prepared: 1	11-Jul-18 A	nalyzed: 12	-Jul-18			
Calcium	ND	0.100	mg/L							
Sodium	ND	1.00	mg/L							
Potassium	ND	1.00	mg/L							
Magnesium	ND	0.100	mg/L							
LCS (B807085-BS1)				Prepared: 1	1-Jul-18 A	nalyzed: 12	-Jul-18			
Sodium	3.50	1.00	mg/L	3.24		108	85-115			
Potassium	8.13	1.00	mg/L	8.00		102	85-115			
Magnesium	19.5	0.100	mg/L	20.0		97.4	85-115			
Calcium	4.01	0.100	mg/L	4.00		100	85-115			
LCS Dup (B807085-BSD1)				Prepared: 1	1-Jul-18 Ai	nalyzed: 12	-Jul-18			
Potassium	8.33	1.00	mg/L	8.00		104	85-115	2.43	20	
Sodium	3.48	1.00	mg/L	3.24		107	85-115	0.713	20	
Calcium	4.09	0.100	mg/L	4.00		102	85-115	1.84	20	
Magnesium	19.9	0.100	mg/L	20.0		99.6	85-115	2.24	20	

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Llano Disposal, LLC BW-38 API 30-025-20592

2019



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

Notes and Definitions

 J
 Estimated conentration. Analyte concentration between MDL and RL.

 ND
 Analyte NOT DETECTED at or above the reporting limit

 RPD
 Relative Percent Difference

 Samples not received at proper temperature of 6°C or below.

 Insufficient time to reach temperature.

 Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

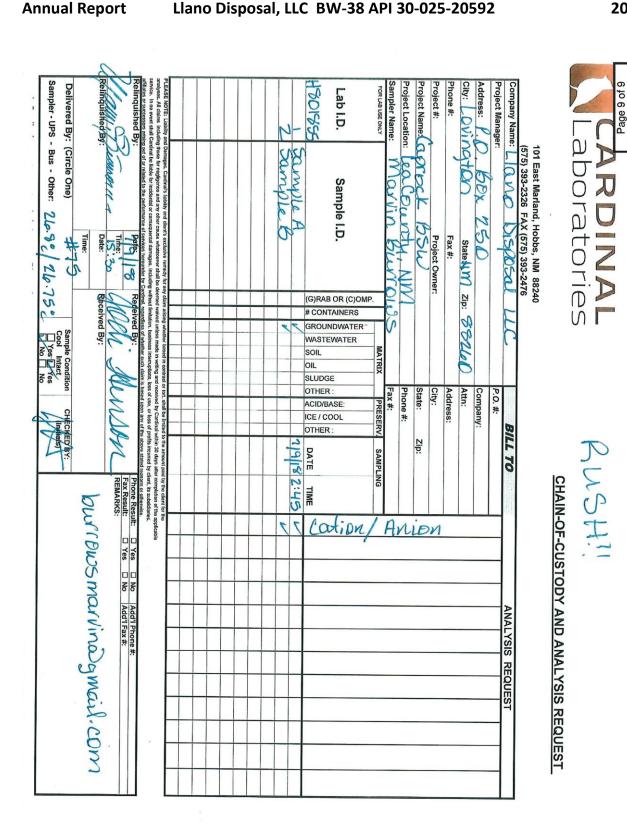
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2019

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APPENDIX G

Certification

.

Annual Report Llano Disposal, LLC BW-38 API 30-025-20592

Llano Disposal, LLC 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

Signature

Owner/Permittee Holder Title

Darr Angell

10/26/22

Date

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Released to Imaging: 11/9/2022 1:56:40 PM

2019

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	153924
	Action Type:
	[UF-DP] Discharge Permit (DISCHARGE PERMIT)

COMMENTS

Created By		Comment Date
cchavez	Annual Report 2019	11/8/2022

COMMENTS

Page 57 of 58

Action 153924

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

ററ	ND	ITIC	DNS

Operator:	OGRID:
LLANO DISPOSAL, L.L.C.	370661
P.O. Box 250	Action Number:
Lovington, NM 88260	153924
	Action Type:
	[UF-DP] Discharge Permit (DISCHARGE PERMIT)

CONDITIONS

Created By	Condition	Condition Date
cchavez	Conditions of Approval are as follows: 1) Submitted reports must contain deliverables specified and required in the Permit; 2) Appendices must contain complete and comprehensive information for the reporting period; and 3) Implement well construction changes via OCD Form C-103 NOI in order to satisfy OCD permit conditions.	11/9/2022

CONDITIONS

Action 153924