BW-036

ANNUAL REPORT

2022

2022 ANNUAL CLASS III WELL REPORT

H.R.C. INC.

Schubert Farms Well # 1 (BW-036)

API 30-025-37548

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GARY M. SCHUBERT

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SUMMARY OF CLASS III OPERATIONS 2022

Schubert Farms Well # 1 (BW-36) production operations in 2022 recorded an upward trend as the industry grew from the year 2021. An annual total of 318,549 bbl. of brine was extracted at an average weight of 9.89 PPG (1.1851 SG), an increase of 7.8% over 2021. Sales are expected to remain steady through 2023 based on an increased demand for brine water.

Analysis of water samples from the designated monitor well showed no changes in water quality.

All facility lines and connections receive a daily visual inspection. Readings on pressure gauges are recorded daily, along with the produced brine and injected water volumes. Safety shut off mechanisms are tested to ensure that the high and low pressure shut down systems are fully functional. In 2022 there were no leaks that occurred during the year. The fresh water systems and well are insulated to protect the fresh water system from freezing. All meters and valves were protected and are in good working condition.

H.R.C., Inc. preventive maintenance plan is to replace any connections or valves that could be showing wear. This will continue as a safe operating procedure in 2023. Connections are changed when the first sign of salt is seen behind the threaded end. During 2022 the transfer pump that transports brine to the sales tanks required a mechanical seal replaced in the month of February as well as November. The rotating assembly for the pump was also replaced during the November service work by Odessa Pumps of Hobbs. The seal replacement is a common task due to the abrasion of the 9.98 PPG brine. When replacing the seals, fresh water was used to clean out the lines, and valves were shut in allowing the connecting unions to be broken to prevent any impact to the ground within the pump shop where the pump resides. A new irrigation valve was installed in March to replace the one that had been in use for the previous several years. This irrigation valve is used in tandem with a float switch to control the filling of the injection water tank and usually has a life of about two years.

At the beginning of August the location experienced an electrical meter failure and was down for approximately twelve days while waiting on Xcel Energy to replace the meter that failed. This downtime is reflected in the lower production volume from the month of August. Other than the loss of power there were no deviations from normal operations of the well.

Surface subsidence monitoring results show no changes in elevations at the designated monitoring points.

Solution cavern characterization results show that the cavern size and shape remain within NMOCD recommended limits.

H.R.C., Inc. has continued its COVID protection plan for employees, requiring hand sanitizers, aerosols and nitrile gloves in the field and office. Field tickets are stored in plastic bags and handled diligently for the least exposure possible to its employees.

H.R.C., Inc. Schubert Farms # 1 is an asset to industry and continues to support oil & gas production operations in New Mexico.

FLUID INJECTION & BRINE PRODUCTION VOLUMES

2022 MONTHLY TOTALS PRODUCED BRINE & INJECTED FRESH WATER

MONTH	PROD. BRINE	INJ. FRESH WATER
JANUARY	28,945	28,617
FEBRUARY	30,073	29,679
MARCH	29,474	29,107
APRIL	26,784	26,500
MAY	26,507	26,226
JUNE	26,191	25,964
JULY	24,625	24,367
AUGUST	20,126	19,902
SEPTEMBER	27,199	26,888
OCTOBER	28,306	28,005
NOVEMBER	24,740	24,464
DECEMBER	25,579	25,288
TOTAL	318,549	315,007

ANNUAL TOTALS PRODUCED BRINE & INJECTED FRESH WATER

YEAR	PROD. BRINE	INJ. FRESH WATER
2017	153,518	148,678
2018	306,806	303,899
2019	264,276	261,658
2020	223,625	221,247
2021	295,614	292,663
2022	318,549	315,007
TOTAL	1,562,388	1,543,152

EXTRACTION VS. INJECTION RATIOS

2021 FLUID INJECTION & BRINE PRODUCTION VOLUME RATIO

MONTH	BRINE	BRINE PSI	FRESH	FW PSI	RATIO	RATIO
			WATER		(RAW)	(CALC)
JANUARY	28,945	20	28,617	255	28945:28617	1.011462
FEBRUARY	30,073	22	29,679	259	30073:29679	1.013275
MARCH	29,474	21	29,107	259	29474:29107	1.012609
APRIL	26,784	19	26,500	257	26784:26500	1.010717
MAY	26,507	19	26,226	258	26507:26226	1.010715
JUNE	26,191	20	25,964	257	26191:25964	1.008743
JULY	24,625	20	24,367	258	24625:24367	1.010588
AUGUST	20,126	19	19,902	257	20126:19902	1.011255
SEPTEMBER	27,199	21	26,888	259	27199:26888	1.011566
OCTOBER	28,306	20	28,005	259	28306:28005	1.010748
NOVEMBER	24,740	19	24,464	257	24740:24464	1.011282
DECEMBER	25,579	21	25,288	259	25579:25288	1.011507

INJECTION PRESSURE

Injection pressure remains consistent with 2021. Annulus average is 20.08 PSIG and the tubing average is at 257.83 PSIG. RFD pump runs at 54.8 Hz. with a yield of 30 to 34 GPM. The lease operator checks the pressure daily and records it on his daily logs.

Please find production & injection pressure and volume data attached in Appendix A, and can be seen in the table above.

MONITOR WELL WATER SAMPLE CHEMICAL ANALYSIS DATA

The BW-36 order requires that the specified monitor well be sampled quarterly and chemical analysis results be reported to the OCD. H.R.C. Inc. had been performing this sampling on a semi-annual basis prior to 2022. However, quarterly sampling and analysis for the produced brine and injected fresh water has been instituted as of January 2022 and the monitor well will be sampled at the same time and same interval, so therefore will also begin and then remain on a quarterly basis going forward. Cardinal Laboratories sampled water from the designated monitor well on 12/27/21, 04/01/2022, 7/1/2022, and 10/5/22.

Summary of the analyses from for Inorganic Compounds and Total Recovery Metals by ICP (E200.7) are shown below. There were no appreciable changes in the designated monitor well water quality throughout 2022, and as compared to 2021.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14 for 12/27/21, T104704398-21-14 for 04/01/22, T104704398-22-15 for 07/01/22, and certificate number T104704398-22-15 for 10/5/22.

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

Method EPA 552.2 Total Halo acetic 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 Halo acetic Acids (HAA-5)

Full details of the analytical results are attached at the end of this report in Appendix B.

DECEMBER 2021 / JANUARY 2022 RESULTS

MONITOR WELL INORGANIC COMPOUNDS

Analyte	Result	MDL	Reporting Limit	Units	Analyzed Date	Method
Alkalinity, Bicarbonate	259		5.00	MG/L	12-20-21	310.1
Alkalinity, Carbonate	<1.00		1.00	MG/L	12-20-21	310.1
Chloride	364		4.00	MG/L	12-20-21	4500. C1.B
Conductivity	1970		1.00	UMHOS/CM	12-17-21	120.1
рН	7.42		0.100	pH units	12-17-21	150.1
Sulfate	264		50.0	MG/L	12-20-21	375.4
TDS	1160		5.0	MG/L	12-21-21	160.1
Alkalinity Total	212		4.00	MG/L	12-20-21	310.1

MONITOR WELL TOTAL RECOVERABLE METALS by ICP (E220.7)

Analyte	Result	MDL	Reporting Limit	Units	Analyzed Date	Method
Calcium	182		1.00	MG/L	1-6-22	EPA 200.7
Magnesium	50.7		1.00	MG/L	1-5-22	EPA 200.7
Potassium	5.36	4.58	10.00	MG/L	1-5-22	EPA 200.7
Sodium	127		10.00	MG/L	1-5-22	EPA 200.7

APRIL 2022 RESULTS

MONITOR WELL INORGANIC COMPOUNDS

Analyte	Result	MDL	Reporting Limit	Units	Analyzed Date	Method
Alkalinity, Bicarbonate	205		5.00	MG/L	04-04-22	310.1
Alkalinity, Carbonate	<1.00		1.00	MG/L	04-04-22	310.1
Chloride	400		4.00	MG/L	04-05-22	4500. C1.B
Conductivity	2150		1.00	UMHOS/CM	04-04-22	120.1
рН	7.42		0.100	pH units	04-04-22	150.1
Sulfate	267		50.0	MG/L	04-06-22	375.4
TDS	1220		5.0	MG/L	04-06-22	160.1
Alkalinity Total	168		4.00	MG/L	04-04-22	310.1

MONITOR WELL TOTAL RECOVERABLE METALS by ICP (E220.7)

Analyte	Result	MDL	Reporting Limit	Units	Analyzed Date	Method
Calcium	211		1.00	MG/L	04-08-22	EPA 200.7
Magnesium	57.1		1.00	MG/L	04-08-22	EPA 200.7
Potassium	5.58	.355	2.00	MG/L	04-08-22	EPA 200.7
Sodium	125		2.00	MG/L	04-08-22	EPA 200.7

JULY 2022 RESULTS

MONITOR WELL INORGANIC COMPOUNDS

Analyte	Result	MDL	Reporting Limit	Units	Analyzed Date	Method
Alkalinity, Bicarbonate	220		5.00	MG/L	07-06-22	310.1
Alkalinity, Carbonate	<1.00		1.00	MG/L	07-06-22	310.1
Chloride	412		4.00	MG/L	07-06-22	4500. C1.B
Conductivity	1970		1.00	UMHOS/CM	07-01-22	120.1
рН	7.52		0.100	pH units	07-01-22	150.1
Sulfate	342		50.0	MG/L	07-06-22	375.4
TDS	1230		5.00	MG/L	07-07-22	160.1
Alkalinity Total	180		4.00	MG/L	07-06-22	310.1

MONITOR WELL TOTAL RECOVERABLE METALS by ICP (E220.7)

Analyte	Result	MDL	Reporting Limit	Units	Analyzed Date	Method
Calcium	184		1.00	MG/L	07-13-22	EPA 200.7
Magnesium	50.9		1.00	MG/L	07-13-22	EPA 200.7
Potassium	5.03	1.78	10.00	MG/L	07-13-22	EPA 200.7
Sodium	116		10.00	MG/L	07-13-22	EPA 200.7

OCTOBER 2022 RESULTS

MONITOR WELL INORGANIC COMPOUNDS

Analyte	Result	MDL	Reporting Limit	Units	Analyzed Date	Method
Alkalinity, Bicarbonate	215		5.00	MG/L	10-09-22	310.1
Alkalinity, Carbonate	<1.00		1.00	MG/L	10-09-22	310.1
Chloride	480		4.00	MG/L	10-06-22	4500. C1.B
Conductivity	2250		1.00	UMHOS/CM	10-09-22	120.1
рН	7.50		0.100	pH units	10-07-22	150.1
Sulfate	262		50.0	MG/L	10-12-22	375.4
TDS	1250		5.00	MG/L	10-06-22	160.1
Alkalinity Total	176		4.00	MG/L	10-09-22	310.1

MONITOR WELL TOTAL RECOVERABLE METALS by ICP (E220.7)

Analyte	Result	MDL	Reporting Limit	Units	Analyzed Date	Method
Calcium	192		1.00	MG/L	10-11-22	EPA 200.7
Magnesium	52.4		1.00	MG/L	10-11-22	EPA 200.7
Potassium	<10.0		10.00	MG/L	10-11-22	EPA 200.7
Sodium	119		10.00	MG/L	10-11-22	EPA 200.7

PRODUCED BRINE & INJECTED FRESH WATER CHEMICAL ANALYSIS DATA

The BW-36 order requires that the produced brine and injected fresh water be sampled quarterly and chemical analysis results be reported to the OCD. H.R.C. Inc. had been erroneously performing this sampling on a semi-annual basis instead of quarterly. Quarterly sampling and analysis has been instituted as of January 2022, and will remain on a quarterly basis going forward. Cardinal Laboratories sampled produced brine and injected fresh water from the BW-36 on 12/27/21, 04/01/2022, 7/1/2022, and 10/5/22. Summary of the analyses for Inorganic Compounds and Total Recovery Metals by ICP (E200.7) are shown below. There were only no appreciable changes in both the produced brine chemistry and injected fresh water chemistry throughout 2022, and as compared to 2021.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14 for 12/27/21, T104704398-21-14 for 04/01/22, T104704398-22-15 for 07/01/22, and certificate number T104704398-22-15 for 10/5/22.

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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 Halo acetic Acids (HAA-5)

Full details of the analytical results are attached at the end of this report in Appendix B.

DECEMBER 2021 / JANUARY 2022 RESULTS

BRINE WATER INORGANIC COMPOUNDS

Analyte	Result	MDL	Reporting Limit	Units	Analyzed Date	Method
Alkalinity, Bicarbonate	317		5.00	MG/L	12-20-21	310.1
Alkalinity, Carbonate	<1.00		1.00	MG/L	12-20-21	310.1
Chloride	176000		4.00	MG/L	12-20-21	4500. C1.B
Conductivity	270000		1.00	UMHOS/CM	12-17-21	120.1
рН	6.73		0.100	pH units	12-17-21	150.1
Sulfate	8040		1250	MG/L	12-20-21	375.4
TDS	296000		5.0	MG/L	12-20-21	160.1
Alkalinity Total	260		4.00	MG/L	12-20-21	310.1

BRINE WATER TOTAL RECOVERABLE METALS by ICP (E220.7)

Analyte	Result	MDL	Reporting Limit	Units	Analyzed Date	Method
Calcium	708		20.0	MG/L	1-5-22	EPA 200.7
Magnesium	148		20.0	MG/L	1-5-22	EPA 200.7
Potassium	176	36.6	200	MG/L	1-5-22	EPA 200.7
Sodium	100000		200	MG/L	1-6-22	EPA 200.7

APRIL 2022 RESULTS

BRINE WATER INORGANIC COMPOUNDS

Analyte	Result	MDL	Reporting Limit	Units	Analyzed Date	Method
Alkalinity, Bicarbonate	234		5.00	MG/L	04-04-22	310.1
Alkalinity, Carbonate	<1.00		1.00	MG/L	04-04-22	310.1
Chloride	178000		4.00	MG/L	04-05-22	4500. C1.B
Conductivity	267000		1.00	UMHOS/CM	04-04-22	120.1
pН	6.75		0.100	pH units	04-04-22	150.1
Sulfate	2230		500	MG/L	04-06-22	375.4
TDS	297000		5.00	MG/L	04-05-22	160.1
Alkalinity Total	192		4.00	MG/L	04-04-22	310.1

BRINE WATER TOTAL RECOVERABLE METALS by ICP (E220.7)

Analyte	Result	MDL	Reporting Limit	Units	Analyzed Date	Method
Calcium	770		50.0	MG/L	04-08-22	EPA 200.7
Magnesium	164		50.0	MG/L	04-08-22	EPA 200.7
Potassium	122	88.8	500	MG/L	04-08-22	EPA 200.7
Sodium	108000		500	MG/L	04-08-22	EPA 200.7

JULY 2022 RESULTS

BRINE WATER INORGANIC COMPOUNDS

Analyte	Result	MDL	Reporting Limit	Units	Analyzed Date	Method
Alkalinity, Bicarbonate	254		5.00	MG/L	07-06-22	310.1
Alkalinity, Carbonate	<1.00		1.00	MG/L	07-06-22	310.1
Chloride	176000		4.00	MG/L	07-06-22	4500. C1.B
Conductivity	268000		1.00	UMHOS/CM	07-01-22	120.1
рН	6.83		0.100	pH units	07-01-22	150.1
Sulfate	3710		833	MG/L	07-06-22	375.4
TDS	299000		5.00	MG/L	07-06-22	160.1
Alkalinity Total	208		4.00	MG/L	07-06-22	310.1

BRINE WATER TOTAL RECOVERABLE METALS by ICP (E220.7)

Analyte	Result	MDL	Reporting Limit	Units	Analyzed Date	Method
Calcium	695		20.0	MG/L	07-13-22	EPA 200.7
Magnesium	141		20.0	MG/L	07-13-22	EPA 200.7
Potassium	90.0	36.6	200	MG/L	07-13-22	EPA 200.7
Sodium	105000		200	MG/L	07-13-22	EPA 200.7

OCTOBER 2022 RESULTS

BRINE WATER INORGANIC COMPOUNDS

Analyte	Result	MDL	Reporting Limit	Units	Analyzed Date	Method
Alkalinity, Bicarbonate	254		5.00	MG/L	10-09-22	310.1
Alkalinity, Carbonate	<1.00		1.00	MG/L	10-09-22	310.1
Chloride	174000		4.00	MG/L	10-06-22	4500. C1.B
Conductivity	230000		1.00	UMHOS/CM	10-07-22	120.1
рН	6.87		0.100	pH units	10-07-22	150.1
Sulfate	2820		833	MG/L	10-12-22	375.4
TDS	292000		5.00	MG/L	10-10-22	160.1
Alkalinity Total	208		4.00	MG/L	10-09-22	310.1

BRINE WATER TOTAL RECOVERABLE METALS by ICP (E220.7)

Analyte	Result	MDL	Reporting Limit	Units	Analyzed Date	Method
Calcium	683		50.0	MG/L	10-11-22	EPA 200.7
Magnesium	138		50.0	MG/L	10-11-22	EPA 200.7
Potassium	<500		500	MG/L	10-11-22	EPA 200.7
Sodium	100000		500	MG/L	10-11-22	EPA 200.7

DECEMBER 2021 / JANUARY 2022 RESULTS

INJECTION WATER INORGANIC COMPOUNDS

Analyte	Result	MDL	Reporting Limit	Units	Analyzed Date	Method
Alkalinity, Bicarbonate	322		5.00	MG/L	12-20-21	310.1
Alkalinity, Carbonate	<1.00		1.00	MG/L	12-20-21	310.1
Chloride	276		4.00	MG/L	12-20-21	4500. C1.B
Conductivity	1610		1.00	UMHOS/CM	12-17-21	120.1
рН	7.74		0.100	pH units	12-17-21	150.1
Sulfate	160		25.0	MG/L	12-20-21	375.4
TDS	976		5.00	MG/L	12-20-21	160.1
Alkalinity Total	264		4.00	MG/L	12-20-21	310.1

INJECTION WATER TOTAL RECOVERABLE METALS by ICP (E220.7)

Analyte	Result	MDL	Reporting Limit	Units	Analyzed Date	Method
Calcium	123		.100	MG/L	1-5-22	EPA 200.7
Magnesium	24.2		.100	MG/L	1-5-22	EPA 200.7
Potassium	12.6	.183	1.00	MG/L	1-5-22	EPA 200.7
Sodium	153		1.00	MG/L	1-5-22	EPA 200.7

APRIL 2022 RESULTS

INJECTION WATER INORGANIC COMPOUNDS

Analyte	Result	MDL	Reporting Limit	Units	Analyzed Date	Method
Alkalinity, Bicarbonate	254		5.00	MG/L	04-04-22	310.1
Alkalinity, Carbonate	<1.00		1.00	MG/L	04-04-22	310.1
Chloride	450		4.00	MG/L	04-05-22	4500. C1.B
Conductivity	2810		1.00	UMHOS/CM	04-04-22	120.1
pН	7.26		0.100	pH units	04-04-22	150.1
Sulfate	529		125	MG/L	04-06-22	375.4
TDS	1780		5.00	MG/L	04-05-22	160.1
Alkalinity Total	208		4.00	MG/L	04-04-22	310.1

INJECTION WATER TOTAL RECOVERABLE METALS by ICP (E220.7)

Analyte	Result	MDL	Reporting Limit	Units	Analyzed Date	Method
Calcium	246		.500	MG/L	04-08-22	EPA 200.7
Magnesium	77.2		.500	MG/L	04-08-22	EPA 200.7
Potassium	8.99	.888	5.00	MG/L	04-08-22	EPA 200.7
Sodium	230		5.00	MG/L	04-08-22	EPA 200.7

JULY 2022 RESULTS

INJECTION WATER INORGANIC COMPOUNDS

Analyte	Result	MDL	Reporting Limit	Units	Analyzed Date	Method
Alkalinity, Bicarbonate	259		5.00	MG/L	07-06-22	310.1
Alkalinity, Carbonate	<1.00		1.00	MG/L	07-06-22	310.1
Chloride	280		4.00	MG/L	07-06-22	4500. C1.B
Conductivity	1660		1.00	UMHOS/CM	07-01-22	120.1
рН	7.56		0.100	pH units	07-01-22	150.1
Sulfate	20.8		50.0	MG/L	07-06-22	375.4
TDS	1040		5.00	MG/L	07-06-22	160.1
Alkalinity Total	212		4.00	MG/L	07-06-22	310.1

INJECTION WATER TOTAL RECOVERABLE METALS by ICP (E220.7)

Analyte	Result	MDL	Reporting Limit	Units	Analyzed Date	Method
Calcium	121		1.00	MG/L	07-13-22	EPA 200.7
Magnesium	30.1		1.00	MG/L	07-13-22	EPA 200.7
Potassium	8.82	1.78	10.0	MG/L	07-13-22	EPA 200.7
Sodium	145		10.0	MG/L	07-13-22	EPA 200.7

OCTOBER 2022 RESULTS

INJECTION WATER INORGANIC COMPOUNDS

Analyte	Result	MDL	Reporting Limit	Units	Analyzed Date	Method
Alkalinity, Bicarbonate	264		5.00	MG/L	10-09-22	310.1
Alkalinity, Carbonate	<1.00		1.00	MG/L	10-09-22	310.1
Chloride	550		4.00	MG/L	10-06-22	4500. C1.B
Conductivity	3280		1.00	UMHOS/CM	10-09-22	120.1
рН	7.29		0.100	pH units	10-07-22	150.1
Sulfate	771		250	MG/L	10-12-22	375.4
TDS	2210		5.00	MG/L	10-08-22	160.1
Alkalinity Total	216		4.00	MG/L	10-09-22	310.1

INJECTION WATER TOTAL RECOVERABLE METALS by ICP (E220.7)

Analyte	Result	MDL	Reporting Limit	Units	Analyzed Date	Method
Calcium	260		1.00	MG/L	10-11-22	EPA 200.7
Magnesium	88.4		1.00	MG/L	10-11-22	EPA 200.7
Potassium	<10		10.0	MG/L	10-11-22	EPA 200.7
Sodium	250		10.0	MG/L	10-11-22	EPA 200.7

PIPE LINE HYDROSTATIC TEST RESULTS

Lines that lead to the storage tanks from the wellhead have a hydrostatic pressure of 8.3 pounds of pressure at the base of the line at the fill tank when idle. The operating static pressure average is 11.7 psi respectively. The operating pressure is at around 20 psig. Discharge line is of 3" Polyethylene SDR 11 with a max operating pressure of 160 PSI.

Brine Water transfer line from storage tanks at the Schubert Farms Well # 1 facility to the storage point located 1.5 miles south of the Schubert Farms Well # 1 has an operating pressure of 130 psi. The second point of diversion is the transfer of brine from the storage tanks known as the Peanut Shed to the A.N. ETZ sales facility located 0.8 miles east of HWY 18 on Nadine Rd. (P-26-19S-38E) this line is constructed of 2" SDR 11 Polyethylene Line with a max pressure of 160 psi the line enters into the west 16' holding tank at the top and has a hydrostatic pressure at the base of the line of 0 pounds of pressure at the base of the line due to the (Peanut Shed) storage tanks being higher in elevation. In the transferring operation of brine from the storage tanks (Peanut Shed) it takes 20 to 30 static pounds to move fluid through the 2" line to the A.N. ETZ sales point. Pump # 1 runs at 26 GPM and Pump # 2 runs at 42 GPM depending on demand both pumps can be run together.

VISUAL LEAK INSPECTION MONITORING

H.R.C. Inc. operations personnel walks each above ground facility line daily, and inspects all lines and connections for any sign of leaks or sweating of threads.

The H.R.C. lease operator drives out the lines that are underground and below frost level and visually inspects for any signs of compromised line integrity. This is done up to four times daily, but at a minimum once daily.

No leaks were detected in 2022. Because there were no leaks or spills detected in 2022, there are no leak or spill corrective action reports required.

MECHANICAL INTEGRITY TESTS

A mechanical integrity test was completed on February 25, 2022. Please find a copy of the MIT Chart, Procedure Report, and C-103 in Appendix C.

AREA OF REVIEW (AOR) UPDATE

H.R.C., Inc. has updated the 2022 AOR for the Schubert Farms Well # 1 (BW-36), showing no new permits or new drilled wells have been located within the ½ or 2 mile AOR since the 2022 report.

Please find a copy of the ½ and 2 mile AOR review map in Appendix D.

DEVIATIONS FROM NORMAL FLOW CONFIGURATION

H.R.C. Inc. certifies that the well was operated in compliance with its permitted normal flow configuration throughout 2022 (inject fresh water down tubing, produce brine up annulus). The well ran smoothly for the entire year and did not require any change in flow operation.

MAJOR FACILITY ACTIVITIES OR EVENTS

There were no major facility activities or events in 2022. There are still currently four 500 bbl fiberglass brine water holding tanks and two 750 bbl fiberglass freshwater holding tanks. Normal operations have continued out of these tanks and no changes are anticipated to the facility in 2023. Please find a copy of the BW-36 facility schematic in Appendix E for the current tank configuration.

SURFACE SUBSIDENCE MONITORING PLAN RESULTS

Surface subsidence surveys were conducted in March 2022, July 2022, and September 2022, by Basin Surveys, certified by Gary L. Jones, Texas PLS. Three elevation markers are in place. No changes in elevation have been found.

Please find a copy of the BW-36 surveyor's plat in Appendix F, with locations of the BW-36 EM markers, and stating no changes found as of September 30, 2022.

SOLUTION CAVERN CHARACTERIZATION DATA RESULTS

The characterization of the cavern can be mathematically calculated using $V=\Pi R^2 h/3$, where the cavern is assumed to be conical in shape, V=v olume of salt removed in ft 3 , R=v cavern radius in ft at bottom, and v = height of cavern in ft.

The Litho Density Compensated Neutron logs showed approximately 54' of good Halite net pay showing less than 4 API units on the Gamma Ray side of the log that is presently being mined. This interval is from 2661'-2715'. Height of cavern, h=54 ft.

BW-36 has produced 1,562,388 Bbl. of brine from the Salado formation from March, 2017 to December 31, 2022. It takes 122.136 Lbs. of salt to produce one barrel of quality brine yielding a Specific Gravity of 1.195. Multiplying salt ratio to total fluid bbl. equals 190,823,820 lbs of salt mined during this period. The amount of salt mined, 190,823,820 lbs, divided by 80 lbs salt/ft. ³ equals 2,385,298 ft.³ volume of salt removed through December 31, 2022. Volume of cavern, V=2,385,298 ft ³.

Substituting into $V=\Pi R^2 h/3$ for V and h, and solving for R shows that the radius of the cavern, R=205 ft. Diameter of cavern, D=2R=410 ft.

Depth of cavern is taken to be depth of casing window, 2661 ft.

In respect to the recommended maximum allowable D/depth cavern size factor of 0.5, the Schubert Farms Well No. 1 (BW-36) has a factor value of (410'/2661') = 0.154, which is well below the maximum allowable.

BW-36 has years of remaining life to continue mining for the salt that is used throughout the oil and gas industry in Southeastern New Mexico. New horizons above 2661' can be considered in the future to increase the lifespan of this facility.

Please find a copy of the BW-36 wellbore schematic and input data for the cavern characterization calculations in Appendix G.

CONCLUSIONS & RECOMMENDATIONS

This well and facility are in good working order and maintained regularly. The cavern diameter/depth ratio is well within recommended maximum limits, and will not cause cavern collapse. There has been no evidence of surface subsidence. The nearby monitor well shows no evidence of contamination of USDW's. H.R.C. Inc. has worked to stay in compliance with all reporting and monitoring since last year and will continue to do so. H.R.C. Inc. will continue to operate this well in a safe and clean manner and will make weed control a priority during 2023.

ANNUAL CERTIFICATION

H.R.C. Inc. certifies that continued salt solution mining of the Schubert Farms Well #1 (BW-36) will not cause cavern collapse, surface subsidence, property damage, or otherwise threaten public health and the environment, based on geologic and engineering data.

Signature ______ for H.R.C., Inc. Date 1/30/23

APPENDIX A

BW-36 Injection / Production

2022 Production & Injection Pressures and Volumes

Month	Brine Production (Bbls) Average Pressure (psi)	Fresh Injection (Bbls) Average Pressure (psi)
January	28,945	28,617
	20	255
February	30,073	29,679
	22	259
March	29,474	29,107
	21	259
April	26,784	26,500
	19	257
May	26,507	26,226
	19	258
June	26,191	25,964
	20	257
July	24,625	24,367
	20	258
August	20,126	19,902
	19	257
September	27,199	26,888
	21	259
October	28,306	28,005
	20	259
November	24,740	24,464
	19	257
December	25,579	25,288
	21	259
		2
Yearly Total	318,549	315,007
	20.08	257.83

Running Totals	Brine Production (Bbls)	Fresh Injection (Bbls)
	1,562,388	1,543,152

APPFNDIX B



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

January 10, 2022

BEN DONAHUE

ETZ WATER STATION

PO BOX 6056

HOBBS, NM 88241

RE: SCHUBERT

Enclosed are the results of analyses for samples received by the laboratory on 12/17/21 12:22.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceo.texas.gov/field/ga/lab.accredited.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)

Celey D. Keine

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ETZ WATER STATION Project: SCHUBERT Reported:
PO BOX 6056 Project Number: SHUBERTFARMS #1 WATER SAMPI 10-Jan-22 12:15
HOBBS NM, 88241 Project Manager: BEN DONAHUE
Fax To:

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FRESH WATER	H213654-01	Water	17-Dec-21 08:30	17-Dec-21 12:22
BRINE WATER	H213654-02	Water	17-Dec-21 08:35	17-Dec-21 12:22
MONITOR WELL	H213654-03	Water	17-Dec-21 08:50	17-Dec-21 12:22

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Page 2 of 10



Analytical Results For:

ETZ WATER STATION Project: SCHUBERT Reported:
PO BOX 6056 Project Number: SHUBERTFARMS #1 WATER SAMPI 10-Jan-22 12:15
HOBBS NM, 88241 Project Manager: BEN DONAHUE
Fax To:

FRESH WATER H213654-01 (Water)

			177.22		,					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Bach	Asalys	Asulyzed	Method	Note
			Cardi	inal Laborato	ries					
Inorganic Compounds										
Alkalinity, Bicarbonate	322		5.00	mg.L.	1	1120308	AC	20-Dec-21	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	1120308	AC	20-Dec-21	310.1	
Chloride*	276		4.00	mg/L.	1	1121717	GM	20-Dec-21	4500-CI-B	
Conductivity*	1610		1.00	unhovien@. 25°C	1	1121716	GM	17-Dec-21	120.1	
pH*	7.74		0.100	pH Units	1	1121716	GM	17-Dec-21	150.1	
Temperature °C	21.5			pH Units	1	1121716	GM	17-Dec-21	150.1	
Sulfate*	160		25.0	mg/L	2.5	1122003	AC	20-Dec-21	375.4	
TDS*	976		5.00	mg/L	1	1120903	AC	20-Dec-21	160.1	
Alkalinity, Total*	264		4.00	Lym	1	1120308	AC	20-Dec-21	310.1	
			Green An	alytical Labo	ratories					
Total Recoverable Metals by	ICP (E200.7)									
Calcium*	123		0.100	mg/L.	1	B213157	,TDA	05-Jan-22	EPA200.7	
Magnesium*	24.2		0.100	mg.L	1	B213157	,TDA	05-Jan-22	EPA200,7	
Potassium*	12.6	0.183	1.00	Jan.	1	B213157	IDA.	05-Jan-22	EPA200.7	
Sodium*	153		1.00	mg/L.	1	B213157	JDA.	05-Jan-22	EPA200.7	

Cardinal Laboratories *=Accredited Analyte

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Analytical Results For:

ETZ WATER STATION Project: SCHUBERT Reported:
PO BOX 6056 Project Number: SHUBERTFARMS #1 WATER SAMPI 10-Jan-22 12:15
HOBBS NM, 88241 Project Manager: BEN DONAHUE
Fax To:

BRINE WATER H213654-02 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Card	inal Laborato	ries					
Inorganic Compounds										
Alkalinity, Bicarbonate	317		5.00	mg/L.	1	1120308	AC	20-Dec-21	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	1120308	AC	20-Dec-21	310.1	
Chloride*	176000		4.00	mg/L	1	1121717	GM	20-Dec-21	4500-C1-B	
Conductivity*	270000		1.00	unhoven @	1	1121716	GM	17-Dec-21	120.1	
pH*	6.73		0.100	pH Units	1	1121716	GM	17-Dec-21	150.1	
Temperature °C	21.6			pH Units	1	1121716	GM	17-Dec-21	150.1	
Sulfate*	8040		1250	mgt.	125	1122003	AC	20-Dec-21	375.4	
TDS*	296000		5.00	Asm.	1	1120903	AC	20-Dec-21	160.1	
Alkalinity, Total*	260		4.00	mg/L	1	1120308	AC	20-Dec-21	310.1	
			Green An	alytical Labo	ratories					
Total Recoverable Metals by	ICP (E200.7)									
Calcium*	708		20.0	Aym.	200	B213157	JDA	05-Jan-22	EPA200.7	
Magnetium*	148		20.0	mg/L	200	B213157	JDA	05-Jan-22	EPA200.7	
Potassium*	176	36.6	200	Aym.	200	B213157	IDA.	05-Jan-22	EPA200.7	
Sodium*	100000		500	Jum.	500	B213157	IDA.	06-Jan-22	EPA200.7	

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

ETZ WATER STATION Project: SCHUBERT Reported:
PO BOX 6056 Project Number: SHUBERTFARMS #1 WATER SAMPI 10-Jan-22 12:15
HOBBS NM, 88241 Project Manager: BEN DONAHUE
Fax To:

MONITOR WELL

	H213654-03 (Water)										
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
			Card	inal Laborate	ries						
Inorganic Compounds											
Alkalinity, Bicarbonate	259		5.00	mg/L	1	1120308	AC	20-Dec-21	310.1		
Alkalinity, Carbonate	<1.00		1.00	mg1.	1	1120308	AC	20-Dec-21	310.1		
Chloride*	364		4.00	mg/L	1	1121717	GM	20-Dec-21	4500-CI-B		
Conductivity*	1970		1.00	umbos/em @ 25°C	t	1121716	GM	17-Dec-21	120.1		
pH*	7.42		0.100	pH Units	1	1121716	GM	17-Dec-21	150.1		
Temperature °C	21.7			pH Units	1	1121716	GM	17-Dec-21	150.1		
Sulfate*	264		50.0	mg/L	5	1122003	AC	20-Dec-21	375.4		
TDS*	1160		5.00	mg/L	1	1120903	GM	21-Dec-21	160.1		
Alkalimity, Total*	212		4.00	mg-L	1	1120308	AC	20-Dec-21	310.1		
			Green An	alytical Labo	ratories						
Total Recoverable Metals by	ICP (E200.7)										
Calcium*	182		2.50	Agm	25	B213157	IDA.	05-Jan-22	EPA200.7		
Magnetium*	50.7		2.50	Agm	25	B213157	JDA.	05-Jun-22	EPA200.7		
Potassium*	5.36	4.58	25.0	mg/L	25	B213157	JDA .	05-Jan-22	EPA200.7	- 3	
Sodium*	127		25.0	me L	25	B213157	IDA	05-Jan-22	EPA200.7		

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

ETZ WATER STATION Project: SCHUBERT Reported:
PO BOX 6056 Project Number: SHUBERTFARMS #1 WATER SAMPI 10-Jan-22 12:15
HOBBS NM, 88241 Project Manager: BEN DONAHUE
Fax To:

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyse	Result	Reporting Limit	Units	Spike Level	Source Result	NARC	NAREC Limits	RPD	RPD Limit	Notes
Batch 1120308 - General Prep - Wet Chem										
Blank (1120308-BLK1)				Prepared &	Analyzed	03-Dec-21				
Alkalinity, Carbonate	ND	1.00	mg1.							
Alkalinity, Bicarbonate	5.00	5.00	mgl							
Alkalinity, Total	4.00	4.00	mg1							
LCS (1120308-BS1)				Prepared &	Analyzed	03-Dec-21				
Alkalinity, Carbonate	ND	2.50	mg1				80-120			
Alkalinity, Bicarbonate	292	12.5	mg1.				80-120			
Alkalimity, Total	240	10.0	mgt.	250		96,0	80-120			
LCS Dup (1120308-BSD1)				Prepared &	Analyzed	03-Dec-21				
Alkalinity, Carbonate	ND	2.50	mgL				80-120		20	
Alkalinity, Bicarbonate	305	12.5	mgL				80-120	4.18	20	
Alkalinity, Total	250	10.0	mg1.	250		100	80-120	4.08	30	
Batch 1120903 - Filtration										
Blank (1120903-BLK1)				Prepared: (09-Dec-21	Analyzed: 1	3-Dec-21			
TDS	ND	5.00	mg/L							
LCS (1120903-BS1)				Prepared:	09-Dec-21	Analyzed: 1	3-Dec-21			
TDS	523		mg1.	500		105	80-120			
Duplicate (1120903-DUP1)	Son	rce: H213532	.06	Prepared: 09-Dec-21 Analyzed: 13-Dec-21						
TDS	613	5.00	mgt.		591			3.65	20	

Batch 1121716 - General Prep - Wet Chem

LCS (1121716-BS1)			Prepared & Analy	yzed: 17-Dec-21		
Conductivity	105000	uS/cm	100000	105	80-120	
pit	7.11	pH Units	7.00	102	90-110	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Page 6 of 10



Analytical Results For:

PO BOX 6056 HOBBS NM, 88241 Project: SCHUBERT
Project Number: SHUBERTFARMS #1 WATER SAMPI

Project Manager: BEN DONAHUE

Fax To:

Reported: 10-Jan-22 12:15

Inorganic Compounds - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		NREC		RPD	
Analyte	Result	Limit	Units	Level	Result	*WREC	Limits	RPO	Limit	Notes

Batch 1121710 - Gener:	u rrep -	wet	Chem
------------------------	----------	-----	------

Duplicate (1121716-DUP1)	Sour	re: H213653-0	Prepar	red & Analyzed: 17-Dec-21			
Conductivity	1610	1.00 uni	hovicm @ 25°C	1630	1.17	20	
Hq	7.47	0.100 p	H Units	7.44	0.402	20	
Temperature °C	21.3		H Units	21.2	0.471	200	

Batch 1121717 - General Prep - Wet Chem

Blank (1121717-BLK1)				Prepared & Ana	lyzed: 17-Dec-21				
Chloride	ND	4.00	mg¶.						
LCS (1121717-BS1)				Prepared & Ana	hyzed: 17-Dec-21				
Chloride	100	4.00	mgt	100	100	80-120			
LCS Dup (1121717-BSD1)				Prepared & Ana	lyzed: 17-Dec-21				
Chloride	104	4.00	mg1.	100	104	80-120	3.92	20	

Batch 1122003 - General Prep - Wet Chem.

Blank (1122003-BLK1)				Prepared & Anal	lyzed: 20-Dec-21				
Sulfate	ND	10.0	mgT.						Т
LCS (1122003-BS1)				Prepared & Anal	yzed: 20-Dec-21				
Sulfate	22.4	10.0	mgt	20.0	112	80-120			
LCS Dup (1122003-BSD1)				Prepared & Anal	yzed: 20-Dec-21				
Sulfate	23.1	10.0	mg/L	20.0	116	80-120	3.21	20	

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

ETZ WATER STATION Project: SCHUBERT Reported:
PO BOX 6056 Project Number: SHUBERTFARMS #1 WATER SAMPI 10-Jan-22 12:15
HOBBS NM, 88241 Project Manager: BEN DONAHUE
Fax To:

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

Green Analytical Laboratories

Analyte	Result	Reporting	Units	Spike Level	Source Result	NAEC	NAREC Limits	RPD	RPD Limit	Notes
Batch B213157 - Total Rec. 200.7/20	0.8/200.2									
Blank (B213157-BLK1)				Prepared:	28-Dec-21	Analyzed: 0	5-Jan-22			
Magnesium	ND	0.100	mg L							
Calcium	ND	0.100	.Tom							
Sodium	ND	1.00	mgT.							
Potassium	ND	1.00	mgL							
LCS (B213157-BS1)				Prepared:	28-Dec-21	Analyzed: 0	5-Jan-22			
Sodium	3.15	1.00	mg1.	3.24		97.1	85-115			
Potassium	7.86	1.00	mg1.	8.00		98.3	85-115			
Magnesium	20.2	0.100	mg%.	20.0		101	85-115			
Calcium	3.93	0.100	mg L	4.00		98.3	85-115			
LCS Dup (B213157-BSD1)				Prepared:	28-Dec-21	Analyzed: 0	5-Jan-22			
Magnesium	20.2	0.100	J'gm	20.0		101	85-115	0.397	20	
Potamium	7.86	1.00	mg1.	8.00		98.2	85-115	0.0388	20	
Sodium	3,14	1,00	mgL	3.24		96.8	85-115	0.252	20	
Calcium	3.93	0.100	mg*L	4.00		98.3	85-115	0.00694	20	

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

3	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.
ž.	Chloride by SM4500Cl-8 does not require samples be received at or below 6℃
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Page 9 of 10

	(675) 393-2326 FAX (575) 393-2476	2476	BILL TO		ANALYSIS REQUEST	
Project Manager: Ben De			P.O. #:			
city: Hobbs		State: V/M Zip: 882-11	Attn:			
Phone #575 343 354	70		Address:			
Project #:	Project Owner	5	City:			-
Project Name: Schudaga Favrys	shed Farms 4 Water	4 Water Samples	State: Zip:			
Project Location: S	Project Location: Soluber Forms " Bring Lie!	has well	Phone #:	90		
Sampler Name: Pan	on Donahung		Fax #:	L		
KON DRIVING ANX		S ER	PRESERV	,		
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMI # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	Cation		
-	Fresh Water		יקחקה יקחקה	8:354		
	Warran meri	22	144a	2500		
PUDAR NOTE: Labelly and Demayor analyses. All deline including from for		111	and the second property of the second property of the second part by the administration and the second part by the administration of the second part by the administration of the second part and the second p	O'ny the client for the or completion of the explication direct, to authoritiestes,		
Relinquished By:	Continues leading and clearly exclusion serve oughpress and any other cause wholesees at the fee systemal or consequented cleanups, is	Receive	Molathe	Verbal Result: Dives Di No Add'i Phone 8: All Results are emailed. Phone grovide Emait address: Guir (an Schuulte and Cyrodin. Com RESULTING.	No Add Phone #: ase grovide Email address: 4 Cyrnail. Com	
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Colored Boy (Clarks Cons)	Combath leading and doubt sectuation were undiginated and that the contract of the district of the contract of	Receive	*		1	

Page 10 of 10



April 12, 2022

BEN DONAHUE

ETZ WATER STATION

PO BOX 6056

HOBBS, NM 88241

RE: SCHUBERT

Enclosed are the results of analyses for samples received by the laboratory on 04/01/22 15:09.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceg.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 Tribalomethanes (TTHM)

Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Celey D. Keene

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

Page 1 of 10



Analytical Results For:

PO BOX 6056 HOBBS NM, 88241 Project: SCHUBERT
Project Number: SHUBERT FARMS #1
Project Manager: BEN DONAHUE

Reported: 12-Apr-22 16:15

Sample ID Laboratory ID Matrix **Date Sampled Date Received** 01-Apr-22 08:05 H221319-01 Water 01-Apr-22 15:09 FRESH WATER 01-Apr-22 08:10 H221319-02 BRINE WATER Water 01-Apr-22 15:09 01-Apr-22 08:00 H221319-03 Water 01-Apr-22 15:09 MONITOR WELL

Fax To:

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: LIGHTY and Country: Cardinar's liability and chiefs accounted rememby for any claim inclined, amend in operand not count, shall be immoble to the amount easy by ment for assignment all claims, including those for negligence at any other cross exhibits assignment assignment

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Celey D. Keene, Lab Director/Quality Manager

Page 2 of 10



Analytical Results For:

ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241 Project: SCHUBERT
Project Number: SHUBERT FARMS #1
Project Manager: BEN DONAHUE

Fax To:

Reported: 12-Apr-22 16:15

FRESH WATER H221319-01 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardi	inal Laborate	ories					
Inorganic Compounds										
Alkalinity, Bicarbonate	254		5.00	mg/L	1	2040415	GM	04-Apr-22	310,1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	2040415	GM	04-Apr-22	-310,1	
Chloride*	450		4.00	mg/L	T	2040418	AC	05-Apr-22	4500-CI-B	
Conductivity*	2810		1.00	umbos/em @ 25°C	Ĭ.	2040417	GM	04-Apr-22	120.1	
pH*	7.26		0.100	pH Units	1	2040417	GM	04-Apr-22	150.1	
Temperature °C	23.3			pH Units	L	2040417	GM	04-Apr-22	150.1	
Sulfate*	529		125	mg/L	12.5	2040416	GM	06-Apr-22	375.4	
TDS*	1780		5.00	mg/L	1	2040104	GM	05-Apr-22	160.1	
Alkalinity, Total ^s	208		4.00	mg/L	Ţ	2040415	GM	04-Apr-22	310.1	
			Green An	alytical Labo	ratorics					
Total Recoverable Metals by	ICP (E200.7)									
Calcium*	246		0,500	rag/L	5	B220889	AES	08-Apr-22	EPA 200.7	
Magnesium*	77.2		0.500	mg/L	5	B220889	AES	08-Apr-22	EPA200.7	
Potassium*	8.99	0.888	5.00	mg/L	5	B220889	AES	08-Apr-22	EPA200.7	
Sodium*	230		5.00	rog/L	5	B220889	AES	08-Apr-22	EPA200.7	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: LIGHTY and Country: Cardinary Balancy and Union's source rememby for any claim pricing, weether leased in coveract or lost, shall be immobile to the amount easy by ment for sources. All claims including those for negligence at any other cause exhibitions are the applicable service. To his water stall Current not independ to consciousness, considering, which immobile service, transportations, loss at use, or loss of price incurred by vient, its subdefines, animates or successors around cut of or visited to the performance of the services Hermited by Cardinal, regardless at whether out down is based upon any of the amount stated reason or or otherwise. Resulter rather only for the control of cardinal purposes of Cardinal purposes of Cardinal purposes.

Celley T. Kreens -

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 10



Reported:

12-Apr-22 16:15

Analytical Results For:

ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241

Project: SCHUBERT Project Number: SHUBERT FARMS #1 Project Manager: BEN DONAHUE

Fax To:

BRINE WATER

			H22	1319-02 (Wat	er)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardi	inal Laborato	ories					
Inorganic Compounds										
Alkalinity, Bicarbonate	234		5.00	mg/L	T	2040415	GM	04-Apr-22	310.4	
Alkalinity, Carbonate	<1.00		1.00	mg/L	- (2040415	GM	04-Apr-22	310.1	
Chloride*	178000		4.00	mg/L	I	2040418	AC	05-Apr-22	4500-C1-B	
Conductivity*	267000		1.00	umhos/cm @ 25°C	1	2040417	GM	04-Apr-22	120.E	
pH*	6.75		0.100	pH Units	I	2040417	GM	04-Apr-22	150,1	
Temperature °C	23.3			pH Units	r	2040417	GM	04-Apr-22	150.1	
Sulfate*	2230		500	mg L	50	2040416	GM	06-Apr-22	375.4	
TDS*	297000		5.00	mg/L	1	2040104	GM	05-Apr-22	160,1	
Alkalinity, Total*	192		4.00	mg/L	1	2040415	GM.	04-Apr-22	310.1	
			Green An	alytical Labo	ratories					
Total Recoverable Metals by	ICP (E200.7)									
Calcium*	770		50.0	mg/L	500	B220889	AES	08-Apr-22	EPA200.7	
Magnesium*	164		50.0	rog/L	500	B220889	AES	08-Apr-22	EPA200.7	
Potassium*	122	88.8	500	mg/L	500	B220889	AES	08-Apr-22	EPA200-7	
Sodium*	108000		500	mg/L	500	B220889	AES	08-Apr-22	EPA200.7	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: LIGHTY and Country: Cardinary Balatry and Union's source remedy for any claim inclining, weether based in coverant or total, shall be immediate to the amount easy by ment for sources. All claims including those for negligence at any other cross exhibits express. The source is a source of the source of the source of the control of the performance of the source of the control of the performance of the source of the source

Celley & Keine

Celey D. Keene, Lab Director/Quality Manager

Page 4 of 10



Analytical Results For:

ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241 Project: SCHUBERT
Project Number: SHUBERT FARMS #1
Project Manager: BEN DONAHUE

Fax To:

Reported: 12-Apr-22 16:15

MONITOR WELL H221319-03 (Water)

Analyte	Résult	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardi	nal Laborato	ries					
Inorganic Compounds										
Alkalinity, Bicarbonate	205		5.00	mg/L	T	2040415	GM	04-Apr-22	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	. (2040415	GM	04-Apr-22	310.1	
Chloride*	400		4.00	mg/L	I	2040418	AC	05-Apr-22	4500-C1-B	
Conductivity*	2150		1.00	umhos/cm @ 25°C	1	2040417	GM	04-Apr-22	120.E	
pH*	7.42		0.100	pH Units	1	2040417	GM	04-Apr-22	150,1	
Temperature °C	23.3			pH Units	1	2040417	GM	04-Apr-22	150.1	
Sulfate*	267		50.0	mg/L	5	2040416	GM	06-Apr-22	375.4	
TDS*	1220		5.00	mg/L	1	2040104	GM	06-Apr-22	160.1	
Alkalinity, Total*	168		4.00	.mg/L	1	2040415	GM.	04-Apr-22	310.1	
			Green An	alytical Labo	ratories					
Total Recoverable Metals by	ICP (E200.7)		V V							
Calcium*	211		1.00	mg/L	1.0	B220889	AES	08-Apr-22	EPA200.7	

mg/L

mg/L

B220889

B220889

B220889

AES

AES

AES

08-Apr-22

08-Apr-22

08-Apr-22

EPA200.7

EPA200.7

EPA200.7

1.00

2.00

2.00

0.355

Cardinal Laboratories

Magnesium*

Potassium*

Sodium*

*=Accredited Analyte

PLEASE NOTE: LIGHTY and Country: Cardinary Balatry and Union's source remedy for any clum pricing, weether leased in operant or out, shall be immode to the amount easy by ment for source. All claims, including those for negligence at any other cross exhibits everyor. By the source source in the service interesting in the service in th

Celley T. Kreens -

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Celey D. Keene, Lab Director/Quality Manager

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Reported:

12-Apr-22 16:15

Analytical Results For:

ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241 Project; SCHUBERT Project Number: SHUBERT FARMS #1 Project Manager: BEN DONAHUE

Fax To:

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2040104 - Filtration										
Blank (2040104-BLK1)				Prepared: ()1-Apr-22 A	Analyzed: 0	4-Apr-22			
TDS	ND	5.00	mg/f_							
LCS (2040104-BS1)				Prepared: (11-Apr-22 A	Analyzed: 0	5-Apr-22			
TDS	532		mg/L	500		106	80-120			
Duplicate (2040104-DUP1)	Sou	rce: H221301-	-02	Prepared: (11-Apr-22 /	Analyzed: 0	4-Apr-22			
TDS	531	5.00	mg/L		501			5.81	20	
Batch 2040415 - General Prep - Wet Chem										
Blank (2040415-BLK1)				Prepared &	Analyzed:	04-Apr-22				
Alkalinity, Carbonate	ND	1.00	mg/L							
Alkalinity, Bicarbonate	5.00	5.00	mg/L							
Alkalinity. Total	4,00	4.00	mg/L							
LCS (2040415-BS1)				Prepared &	Analyzed;	04-Apr-22				
Alkalinity, Carbonate	ND	2.50	mg/L				80-120			
Alkalinity, Bicarbonate	280	12,5	mg/f				80-120			
Alkalinity, Total	230	10,0	mg/L	250		92.0	80-120			
LCS Dup (2040415-BSD1)				Prepared &	: Analyzed:	04-Apr-22				
Alkalinity. Carbonate	ND	2,50	mg/L			-	80-120		20	
Alkalinity, Bicarbonate	292	12.5	mg/L				80-120	4.37	20	
Alkalinity, Total	240	10,0	mg/L	250		96,0	80-120	4,26	20	
Batch 2040416 - General Prep - Wet Chem										
Blank (2040416-BLK1)				Prepared: (14-Apr-22 A	Analyzed: 0	6-Apr-22			
Sulfate	ND	16.0	mg/L							

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE LIGHTY and Country's Contract liability and chiefs advising and chiefs advising reserved to any state of contract and contr

Celley T. Kreene -

Celey D. Keene, Lab Director/Quality Manager

Page 6 of 10



Reported:

12-Apr-22 16:15

Analytical Results For:

ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241 Project: SCHUBERT
Project Number: SHUBERT FARMS #1
Project Manager: BEN DONAHUE

lanager: BEN DONAHU Fax To:

Inorganic Compounds - Quality Control

Cardinal Laboratories

		Residence of the Property of t									
Anslyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch 2040416 - General Prep - Wet Che	m										
LCS (2040416-BS1)	Prepared: 04-Apr-22 Analyzed: 06-Apr-22										
Sulfate	19.5	10.0	mg/L	20,0		97.6	80-120				
LCS Dup (2040416-BSD1)	Prepared: 04-Apr-22 Analyzed: 06-Apr-22										
Sulfate	19.1	10.0	mg/L	20.0		95.6	80-120	2.17	20		
Batch 2040417 - General Prep - Wet Che	m.										
LCS (2040417-BS1)	Prepared & Analyzed: 04-Apr-22										
plq 1fq	7,11		pH Units	7.00		102:	90-110				
Conductivity	101000		aS/cm	100000		101	80-120				
Duplicate (2040417-DUP1)	Sou	Source; H221318-01			Prepared & Analyzed: 04-Apr-22						
PH	7.19	0.100	pH Units		7/15			0.558	20		
Conductivity	2770	1.00	umhos/cm (a 25°C		2760			0.362	20		
Temperature °C'	23.4		pH Units		23.3			0.428	200		
Batch 2040418 - General Prep - Wet Che	m										
Blank (2040418-BLK1)				Prepared &	Prepared & Analyzed: 05-Apr-22						
Chloride	ND	4,00	mg/L								
LCS (2040418-BS1)				Prepared & Analyzed: 05-Apr-22							
Chloride	100	≢,00	mg/L	100		100	80-120				
LCS Dup (2040418-BSD1)			Prepared & Analyzed: 05-Apr-22								
Chloride	104	4.00	mg/L	100		104	80-120	3.92	20		

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE LIGHTY and Country's Contract liability and chiefs accounted removal for any claim and one country and country to account the amount easy by ment for account liability, and chiefs maked in westig and recolored by Cardinal primer they (33) days after connected accountry to account source. In the service increasing the country liabilities increased accountry liabilities intermediate, and accountry liabilities intermediate.

Celey & Keine

Celey D. Keene, Lab Director/Quality Manager

Page 7 of 10



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Analytical Results For:

PO BOX 6056 HOBBS NM, 88241 Project: SCHUBERT
Project Number: SHUBERT FARMS #1
Project Manager: BEN DONAHUE

Spike

Source

Fax To:

Reported: 12-Apr-22 16:15

RPD

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

Green Analytical Laboratories

Reporting

Analyte	Result	Limit	Units	Level	Result	79KLC	Lamus	KPD	rantiti	Notes
Batch B220889 - Total Recoverable	by ICP									
Blank (B220889-BLK1)				Prepared: (07-Apr-22 An	alyzed: 0	8-Apr-22			
Magnesium	ND	0.100	mg/L							
Calcium	ND	0.100	mg/L							
Sodium	ND	1.00	mg/L							
Potassium	ND	1,00	mg/L							
LCS (B220889-BS1)				Prepared:	07-Apr-22 An	alyzed: 0	8-Apr-22			
Sodium	1.55	1.00	mg/L	1.62		95.7	85-115			
Potassium	4,07	1.00	mg/L	4.00		102	85-115			
Magnesium	10.3	0.100	mg/L	10.0		103	85-115			
Calcium	1.97	0.100	mg/L	2.00		98.6	85-115			
LCS Dup (B220889-BSD1)				Prepared: (07-Apr-22 An	alyzed: 0	8-Apr-22			
Magnesium	9.95	0.100	mg/L	10.0		99.5	85-115	2.98	20	
Potassium	4.00	1.00	mg/f	4.00		100	85-115	1.68	20	
Sodium	1.50	4,00	mg/L	1.62		92,4	85-115	3,57	20	
Calcium	1.91	0.100	mg/L	2.00		95.4	85-115	3.33	20	

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: LIGHTY and Country: Cardinary Balancy and clinics accounts remembly for any clum pricing, weeting inspect or count, shall be immoble to the amount exist by ment for somption. All claims including those for negligence as any other cross exhibits express. The source inspect in the source in the source inspect in the source in the s

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Celey D. Keene, Lab Director/Quality Manager

Page 8 of 10



Notes and Definitions

3	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
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.
60.0	Insufficient time to reach temperature.

Chloride by SM4500Ci-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report.

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE LIGHTLY and Damages. Currishare liability and Unions source remedy for any data present in overant or ton, shall be immed to the amount early by ment for source. All takins, including those for negligence at any other crusic exhibitions are the septicable service. To no work that Common no index no consciousness exemply, which immediate, survives when the production of the services interruptions, loss at use, or ose of profits incurred by vient, its substitutions, which immediate, and any other course or exemptions, loss at use, or ose of profits incurred by vient, its substitutions, and the profits incurred by the content of the services are considered easing or otherwise. Resulter indirectly for the complex interfield grown. The region shall not be personally any or of the asset of content of contents.

Celley & Kreene

Celey D. Keene, Lab Director/Quality Manager

Page 9 of 10

pg. 37

d. Hobbs. NM 88240 FAX (575) 333-2476 State: PM) Zip: CB24 Attn: Fax #: Address: Project Owner: Fax #: Address: Project Owner: Fig. # Water Samples Register Owner: Fig. # Project Owner: City: Fig. # Address: Fig. # Project Owner: City: Fig. # Address: Fig. # Project Owner: City: Fig. # Address: Fig. # Address: Fig. # Project Owner: City: Fig. # Address: Fig. # Address:	88240 88240 88240 8 2476 8	PLEASE NOTE: Liability and Damages. Cardinal's liability and diserts earliance pages. All dains including broat for negligence and any other cause with service. In the reset and cardinal be liability for incidental or consequence and affiliation or successor a string and of or relatind to the portormance of service. Relinquished By: Pages Relinquished By: Circle One) Date Delivered By: (Circle One) Corrected FORMITODO R 3.2 (Date 2)	H221319 H221319 Rosh water 2 Brine water 3 Monitor well	15 343 3 Buy ation: Schubert The: Ban Park	Address: P.A. Bat 5102 City: Hubby	101 East Marland, Hobbs, NM (575) 393-2326 FAX (575) 39;
	Yes D No Addition Please provide En Rush	and client's entitlative removaly for any claim stating, whether issued in continued or tort, shall be limited other causes whetherower shall be desired valenced unless made in writing and received by Continual transport, including without immaters, its clients interruptions, loss of one, or less or particular transport in the continued transp	(G)RAP OR (C) WASTEWATE SOIL OIL SLUDGE OTHER: ACID/BASE:	Fax #: AN Project Owner: C: A! Wate: Samples St. A. W.		101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Page 10 of 10



July 18, 2022

BEN DONAHUE

ETZ WATER STATION

PO BOX 6056

HOBBS, NM 88241

RE: SCHUBERT

Enclosed are the results of analyses for samples received by the laboratory on 07/01/22 10:12.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceg.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 Tribalomethanes (TTHM)

Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Celey D. Keine

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

Page 1 of 10



Analytical Results For:

PO BOX 6056 HOBBS NM, 88241 Project: SCHUBERT
Project Number: SHUBERT FARMS #1 WATER SAM

Project Manager: BEN DONAHUE

Fax To:

Reported: 18-Jul-22 14:57

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Laboratory ID	Matrix	Date Sampled	Date Received
H222827-01	Water	01-Jul-22 05:50	01-Jul-22 10:12
H222827-02	Water	01-Jul-22 05:45	01-Jul-22 10:12
H222827-03	Water	01-Jul-22 05:55	01-Jul-22 10:12
	H222827-02	H222827-01 Water H222827-02 Water	H222827-01 Water 01-Jul-22 05:50 H222827-02 Water 01-Jul-22 05:45

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE LIGHTY and Country's Contract liability and chiefs accounted remove to may claim and one cased in contract or court, shall be immode to the amount easy by mant for account and some cased in weeting and recolored by Cardinal period by a days after connection on the applicable service. In the weet that Cardinal period is conceived and conceived a consequent cardinal period in the applicable service. In the weet that Cardinal period is conceived a consequent cardinal period in the period contract of the contract

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Celey D. Keene, Lab Director/Quality Manager

Page 2 of 10

pg. 40



Analytical Results For:

ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241

Project: SCHUBERT

Project Number: SHUBERT FARMS #1 WATER SAM

Project Manager: BEN DONAHUE

Fax To:

Reported: 18-Jul-22 14:57

BRINE WATER H222827-01 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardi	inal Laborato	ries					
Inorganic Compounds										
Alkalinity, Bicarbonate	254		5.00	mg/L	1	2042827	GM	06-Jul-22	310.1	
Alkalimity, Carbonate	<1.00		1.00	mg/L	ă.	2042827	GM	06-Jul-22	310.1	
Chloride*	176000		4.00	mg/L	I	2063022	GM	06-Jul-22	4500-CI-B	
Conductivity*	268000		1.00	umbos/cm (a. 25°C	Ĭ.	2070119	AC	01-Jul-22	120,1	
pH*	6.83		0.100	pH Units	1	2070119	AC	01-Jul-22	150.1	
Temperature °C	20,8			pH Units	1.	2070119	AC	01-Jul-22	150.1	
Sulfate*	3710		833	mg/L	83.3	2063006	GM	06-Jul-22	375.4	
TDS*	299000		5.00	mg/L	r	2070520	GM	06-Jul-22	160.1	
Alkalinity, Total ^s	208		4.00	mg/L	1	2042827	GM	06-Jul-22	310.1	
			Green An	alytical Labo	ratories					
Total Recoverable Metals by	ICP (E200.7)									
Calcium*	695		50.0	mg/L	500	B221831	AES	13-Jul-22	EPA200.7	
Maguesium*	141		50.0	mg/L	500	B221831	AES	13-Jul-22	EPA200.7	
Potassium*	90.0	88.8	500	mg/L	500	B221831	AES	13-Jul-22	EPA200.7	
Sodium*	105000		500	mg/L	500	B22183)	AES	i 3-Jul-22	EPA200.7	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: LIGHTY and Country: Cardinary Balatry and Union's source remedy for any claim inclining, weether based in coverant or total, shall be immediate to the amount easy by ment for sources. All claims including those for negligence at any other cross exhibits express. The source is a ware small consequent as consequent as exempts, which immediate, survives increased assumpts, to the services interruptions, loss at use, or loss of profits incurred by views, it is subdictable, and and other assumpts are consequently assumptions, loss at use, or loss of profits incurred by views, it is subdictable, and and other assumptions, loss are use, or loss of profits incurred by views, it is subdictable, and and other assumptions of the services terruptions.

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Celey D. Keene, Lab Director/Quality Manager

Page 3 of 10



Result

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

Analyst

Reported:

18-Jul-22 14:57

Analytical Results For:

ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241

Analyte

Project: SCHUBERT

Project Number: SHUBERT FARMS #1 WATER SAM

Dilution

Project Manager: BEN DONAHUE

Fax To:

Reporting

MDL

MONITOR WELL H222827-02 (Water)

Units

		Card	inal Laborator	ies					
Inorganic Compounds									
Alkalinity, Bicarbonate	220	5.00	mg/L	T	2042827	GM	06-Jul-22	310.1	
Alkalinity, Carbonate	<1.00	1.00	mg/L	- (2042827	GM	06-Jul-22	310.1	
Chloride*	412	4.00	mg/L	I	2063022	GM	06-Jul-22	4500-C1-B	
Conductivity*	1970	1.00	umhos/cm @ 25°C	1	2070119	AC	01-Jul-22	120.E	
oH*	7.52	0.100	pH Unus	I	2070119	AC	01-Jul-22	150,1	
Temperature °C	20.8		pH Units	Y	2070119	AC.	01-Jul-22	150.1	
Sulfate*	342	50.0	mg/L	5	2063006	GM	06-Ли1-22	375.4	
TDS*	1230	5.00	mg/L	1	2070520	GM	07-Jul-22	160.1	
Alkalinity, Total*	180	4.00	mg/L	1	2042827	GM	06-Jul-22	310.1	

Green Analytical Laboratories

Total Recoverable Metal	s by ICP (E200.7)									_
Calcium*	184		1.00	mg/L	10	B221831	AES	13-Jul-22	EPA200.7	
Magnesium*	50.9		1.00	mg/L	10	B22183)	AES	13-Jul-22	EPA200.7	
Potassium*	5.03	1.78	10.0	mg/L	10	B221831	AES	13-Jul-22	EPA200.7	1
Sodium*	116		10.0	mg/L	10	B221831	AES	13-Jul-22	EPA200.7	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE LIGHTLY and Damages. Currishare liability and Union's source remedy for any claim pricing, weetler leased in coveract or that, shall be immediate to the amount exist by ment for source. All claims including those for negligence at any other cruse exhibition, source that including structure is supplicable service. In no worse shall Curring not inspection, considering whiteout invitation, business mentioning, loss at use, or oss of profits incurred by vient, its substitutions, business mentioning control of the performance of the services Hermited by Cardinal, regardless at whether all claims is beard upon any of the above tasked reasoning or otherwise. Resulter rather only for the control of cardinal purposes of Cardinal purposes of Cardinal purposes.

Celley Theme-

Celey D. Keene, Lab Director/Quality Manager

Page 4 of 10



Result

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

Analyst

Analyzed

Reported:

18-Jul-22 14:57

Analytical Results For:

ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241

Analyte

Project: SCHUBERT

Project Number: SHUBERT FARMS #1 WATER SAM Project Manager: BEN DONAHUE

Dilution

Fax To:

INJECTION WATER

Units

H222827-03 (Water)

Reporting Limit

MDL

		Card	linal Laborator	ies					
Inorganic Compounds									
Alkalinity, Bicarbonate	259	5.00	mg/L	T	2042827	GM	06-Jul-22	310.1	
Alkalinity, Carbonate	<1.00	1.00	mg/L	. (2042827	GM	06-Jul-22	310.1	
Chloride*	280	4.00	mg/L	I	2063022	GM.	06-Jul-22	4500-C1-B	
Conductivity*	1660	1.00	umhos/cm @ 25°€	1	2070119	AC	01-Jul-22	120.E	
pH*	7.56	0.100	pH Units	I	2070119	AC	01-Jail-22	150.1	
Temperature °C	20.8		pH Units	Y	2070119	AC	01-Jul-22	150.1	
Sulfate*	248	50.0	mg/L	5	2063006	GM	06-Jul-22	375.4	
TDS*	1040	5.00	mg/L	1	2070520	GM	06-Jul-22	160.1	
Alkalinity, Total*	212	4.00	mg/L	1	2042827	GM	06-Jul-22	310.1	

Green Analytical Laboratories

Total Recoverable Metal	ls by ICP (E200.7)									_
Calcium*	121		1.00	mg/L	10	B221831	AES	13-Jul-22	EPA200.7	
Magnesium*	30.1		1.00	mg/L	10	B22183)	AES	13-Jul-22	EPA200.7	
Potassium*	8.82	1.78	10.0	mg/L	10	B221831	AES	13-Jul-22	EPA200.7	1
Sodium*	145		10.0	mg/L	10	B221831	AES	13-Jul-22	EPA200.7	

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PLEASE NOTE LIGHTLY and Damages. Currishare liability and Union's source remedy for any claim pricing, weetler leased in coveract or that, shall be immediate to the amount exist by ment for source. All claims including those for negligence at any other cruse exhibition, source that including structure is supplicable service. In no worse shall Curring not inspection, considering whiteout invitation, business mentioning, loss at use, or oss of profits incurred by vient, its substitutions, business mentioning control of the performance of the services Hermited by Cardinal, regardless at whether all claims is beard upon any of the above tasked reasoning or otherwise. Resulter rather only for the control of cardinal purposes of Cardinal purposes of Cardinal purposes.

Celley Z. Keen

Celey D. Keene, Lab Director/Quality Manager

Page 5 of 10



Analytical Results For:

ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241 Project: SCHUBERT
Project Number: SHUBERT FARMS #1 WATER SAM

Project Manager: BEN DONAHUE

Fax To:

Reported: 18-Jul-22 14:57

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2042827 - General Prep - Wet Chem										
Blank (2042827-BLK1)				Prepared &	Analyzed:	29-Apr-22				
Alkalinity, Carbonate	ND	1.00	mg/L							
Alkalinity, Bicarbonate	5.00	5.00	mg/L							
Alkalinity, Total	4.00	4.00	mg/L							
LCS (2042827-BS1)				Prepared &	Analyzed:	29-Apr-22				
Alkalinity, Carbonate	ND	2:50	rug/L				80-120			
Alkalinity, Bicarbonate	292	12.5	mg/L				80-120			
Alkalinity, Total	240	10.0	mg/L	250		95.0	80-120			
LCS Dup (2042827-BSD1)				Prepared &	Analyzed:	29-Apr-22				
Alkalinity, Carbonate	ND	2,50	mg/L	7. 7			80-120		20	
Alkalinity, Bicarbonate	305	12.5	mg/L				80-120	4.18	20	
Alkalinity, Total	250	10.0	mg/L	250		100	80-120	4.08	20	
Batch 2063006 - General Prep - Wet Chem										
Blank (2063006-BLK1)				Prepared: 3	30-Jun-22 A	nalyzed: 0	5-Jul-22			
Sulfate	ND	10.0	mg/L							
LCS (2063006-BS1)				Prepared: 3	30-Jun-22 A	nalyzed: 00	5-Jul-22			
Sulfate	20.4	100.0	mg/L	20.0		102	80-120			
LCS Dup (2063006-BSD1)				Prepared: 3	30-Jun-22 A	nalyzed: 0	5-Jul-22			
Sulfate	19.7	10,0	mg/L	20.0		98,4	80-120	3,74	20	
Batch 2063022 - General Prep - Wet Chem										
Blank (2063022-BLK1)				Prepared &	Analyzed:	30-Jun-22				
Chloride	ND	4.00	mg/L.							

Cardinal Laboratories

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PLEASE NOTE LIGHTLY and Country's Contract liability and chiefs advising and chiefs advising model for any claim and one country many to contract or court, shall be tended to the amount easy by mant for seasyeer. All states, including those for negligence at any other cause incloses many across accountry to any claim and the amount of t

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Celey D. Keene, Lab Director/Quality Manager

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Reported:

18-Jul-22 14:57

Analytical Results For:

PO BOX 6056 HOBBS NM, 88241 Project: SCHUBERT

Project Number: SHUBERT FARMS #1 WATER SAM

Project Manager: BEN DONAHUE

Fax To:

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2063022 - General Prep - Wet Chem										
LCS (2063022-BS1)				Prepared &	Analyzed:	30-Jun-22				
Chloride	100	4.00	mg/L	100		100	80-120			
LCS Dup (2063022-BSD1)				Prepared &	Analyzed:	30-Jun-22				
Chloride	100	4,00	mg/L	100		100	80-120	0.00	20	
Batch 2070119 - General Prep - Wet Chem										
LCS (2070119-BS1)				Prepared &	Analyzed:	01-Jul-22				
Conductivity	100000		u\$/cm	100000		100	80-120			
pH	7.13		pH Units	7.00		102.	90-110			
Duplicate (2070119-DUP1)	Sou	rce: H222826	i-01	Prepared &	Analyzed:	91-Jul-22				
Conductivity	275000	1.00	umhos/em @ 25°C		276000			0.508	20	
pH	6.57	0.100	pH Units		6.54			0.458	20	
Temperature °C	20.8		pH Units		20.8			0.00	200	
Batch 2070520 - Filtration										
Blank (2070520-BLK1)				Prepared: (5-Jul-22 A	nalyzed: 06	-Jul-22			
TDS	ND	5.00	mg/L							
LCS (2070520-BS1)				Prepared: (5-Jul-22 A	nalyzed: 06	-Jul-22			
TOS	851		rag/L	1000		85.1	80-120			
Duplicate (2070520-DUP1)	Sou	rce: H222826	5-03	Prepared: (5-Jul-22 A	nalyzed: 06	-Jul-22			
TDS	1060	5.00	mg/L		1080			1.88	20	

Cardinal Laboratories

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PLEASE NOTE LIGHTY and Country's Contract liability and chiefs accounted removal for any claim and one country and country to account the amount easy by ment for account liability, and chiefs make in weeting and recolored by Cardinal primer they (33) days after connected accountry to account source. In this water stall Contract to the contract of the applicable source. In this water stall Contract to consciousness accountry, which invitation, business mental contractions, liabilities internations, loss at use, or ose of profits incurred by vient, as subdictance, animates or accountry, business international, business mental contractions, loss at use, or ose of profits incurred by vient, as subdictance, animates or accountry at the contract of the services terminate or profits incurred by the contraction of the contraction of contractions of contractions and contractions.

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Celey D. Keene, Lab Director/Quality Manager

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%REC

Analytical Results For:

ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241

Project: SCHUBERT

Project Number: SHUBERT FARMS #1 WATER SAM Project Manager: BEN DONAHUE

Spike

Source

Fax To:

Reported: 18-Jul-22 14:57

RPD

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

Green Analytical Laboratories

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B221831 - Total Recoverable h	y ICP									
Blank (B221831-BLK1)				Prepared: 1	H-Jul-22 A	nalyzed: 13	-Jul-22			
Magnesium	ND	0.100	mg/L							
Potassium	ND	1.00	mg/L							
Calcium	ND	0.100	mg/L							
Sodium	ND	1.00	mg/L							
LCS (B221831-BS1)				Prepared:	11-Jul-22 A	nalyzed: 13	-Jul-22			
Magnesium	9.62	0.100	mg/L	10.0	-	96,2	85-115			
Potassium	3.98	1.00	mg/L	4.00		99.5	85-115			
Sodium	1.65	1.00	mg/L	1.62		102	85-115			
Calcium	1.87	0.100	mg/L	2.00		93.6	85-115			
LCS Dup (B221831-BSD1)				Prepared:	1-Jul-22 A	nalyzed: 13	-Jul-22			
Calcium	1.79	0.100	mg/L	2.00		89.3	85-115	4.66	20	
Magnesium	9,17	0.100	mg/f	10.0		91.7	85-115	4,85	20	
Sodium	1.72	1.00	mg/L	1:62		106	85-115	4.15	20	
Potassium	3.69	1.00	mg/L	4.00		92.4	85-115	7.48	20	

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PLEASE NOTE: LIGHTY and Country: Cardinary Balancy and clinics accounts remembly for any clum pricing, weeting inspect or count, shall be immoble to the amount exist by ment for somption. All claims including those for negligence as any other cross exhibits express. The source inspect in the source in the source inspect in the source in the s

Celley & Keen

Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

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 SM4500Ci-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report.

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PLEASE NOTE LIGHTLY and Damages. Currisance liability and clinics accounts remembly for any clum prising, weether leased in contract or core, shall be immediate to the amount exist by ment for seasyeen. All claims, including those for negligence as any other cross exhibits contract to the service. To no service that Curring to the consciousness companies are considered in the performance in the services to the service of the services interesting contract to the services of the services interesting contract to the services of whether our claims is based upon any of the service stated reasons or otherwise. Results related upon any of the service stated reasons or otherwise. Results related upon any of the service stated reasons or otherwise.

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Celey D. Keene, Lab Director/Quality Manager

Page 9 of 10

pg. 47

	~	
101 East Marland, Hobbs, NM 8824 (575) 393-2326 FAX (575) 393-247	Laboratories	CARDINAL
n 0	01	

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	Project Manager: Ben Donahus Address: Po Bu 5102 City: Hobby Phone #: 5715 363 3194 Fax #: Project Name: Schubea Frams #1 Brig Wolf Samples Project Location: Schubea Frams #1 Brig Wolf Sampler Name: Ben Donahus Project Name: Ben Donahus		Zib:
	Si	# CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: SAMPL
9	Jechen	N X	
1		Received By:	All REM
Relinquished By: Date: Received By: Received By: Received By: Received By: Received By: Remarks: Email - Gary State	Delivered By: (Circle One) Observed Temp. °C 3.6 Sampler - UPS - Bus - Other: Corrected Temp. °C 3.1	Sample Condition Cool Intact Thes Pres No I No	CHECKED BY: Turnaround Time: (Initials) Thermometer Batts A Sec

Page 10 of 10



October 17, 2022

BEN DONAHUE

ETZ WATER STATION

PO BOX 6056

HOBBS, NM 88241

RE: SCHUBERT

Enclosed are the results of analyses for samples received by the laboratory on 10/05/22 13:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceg.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 Tribalomethanes (TTHM)

Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Celey D. Keene

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

Page 1 of 11



05-Oct-22 10:00

Analytical Results For:

PO BOX 6056 HOBBS NM, 88241

BRINE WATER

Project; SCHUBERT
Project Number: SCHUBERT FARMS #1 WATER SAM

Project Manager: BEN DONAHUE

Reported: 17-Oct-22 15:23

05-Oct-22 13:45

 Sample ID
 Laboratory ID
 Matrix
 Date Sampled
 Date Received

 MONITOR WELL
 H224652-01
 Water
 05-Oct-22 09:50
 05-Oct-22 13:45

 INJECTION WATER
 H224652-02
 Water
 05-Oct-22 09:55
 05-Oct-22 13:45

Water

H224652-03

Fax To:

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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pg. 50



Analytical Results For:

ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241 Project: SCHUBERT

Project Number: SCHUBERT FARMS #1 WATER SAM

Project Manager: BEN DONAHUE

Fax To:

Reported: 17-Oct-22 15:23

MONITOR WELL H224652-01 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardi	inal Laborato	ories					
Inorganic Compounds										
Alkalinity, Bicarbonate	215		5.00	mg/L	1	2100726	GM	09-Oct-22	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/E.	1	2100726	GM	09-Oct-22	310.1	
Chloride*	480		4.00	mg/L	I	2092901	AC	06-Oct-22	4500-CI-B	
Conductivity*	2250		1.00	umhos/cm (a. 25°C	ı	2100727	GM	09-Oct-22	120,1	
pH*	7.50		0,100	pH Units	1	2100727	GM	07-Oct-22	150.1	
Temperature °C	22.4			pH Units	1	2100727	GM	07-Oct-22	150.1	
Sulfate*	262		50.0	mg/L	5	2100725	GM	12-Oct-22	375.4	
TDS*	1250		5.00	rog/L	Y	2093001	AC.	06-Oct-22	1.00.1	
Alkalinity, Total*	176		4.00	mg/L	1	2100726	GM	09-Oct-22	310.1	
			Green An	alytical Labo	oratorics					
Total Recoverable Metals by	ICP (E200.7)									
Calcium*	192		1.00	rag/L	10	B222803	AES	11-Qet-22	EPA200.7	
Magnesium*	52.4		1.00	mg/L	10	B222803	AES	11-Oct-22	EPA200.7	
Potassium*	<10.0		10.0	mg/L	10	B222803	AES	11-Oct-22	EPA200.7	
Sodium*	119		10.0	mg/L	10	B222803	AES	11-Oct-22	EPA200.7	

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PLEASE NOTE: LIGHTY and Country: Cardinary Balatry and Union's source remedy for any claim inclining, weether based in coverant or total, shall be immediate to the amount easy by ment for sources. All claims including those for negligence at any other cross exhibits express. The source is a source of the source of the source of the control of the performance of the source of the control of the performance of the source of the source

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Celey D. Keene, Lab Director/Quality Manager

Page 3 of 11



Analytical Results For:

ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241 Project: SCHUBERT

Project Number: SCHUBERT FARMS #1 WATER SAM Project Manager: BEN DONAHUE

Fax To:

Reported: 17-Oct-22 15:23

INJECTION WATER H224652-02 (Water)

Reporting

Analyte	Result	MDL	Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Card	linal Laborato	ories					
Inorganic Compounds										
Alkalinity, Bicarbonate	264		5.00	mg/L	τ	2100726	GM	(19-Oct-22	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	- (2100726	GM	09-Oct-22	310.1	
Chloride*	550		4.00	mg/L	Ī	2092901	AC	06-Oct-22	4500-C1-B	
Conductivity*	3280		1.00	umhos/cm @ 25°C	1	2100727	GM	09-Oet-22	120.E	
pH*	7.29		0.100	pH Unus	I	2100727	GM	07-Oct-22	150,1	
Temperature °C	22.3			pH Units	Y	2100727	GM	07-Oct-22	150.1	
Sulfate*	771		250	mg/L	25	2100725	GM	12-Oct-22	375.4	
TDS*	2210		5.00	mg/L	1	2093001	AC	06-Oct-22	160,1	
Alkalinity, Total*	216		4.00	mg/L	1	2100726	GM	09-Oct-22	310.1	

Green Analytical Laboratories

Total Recoverable Metal	ls by ICP (E200.7)								
Calcium*	260	1.00	mg/L	10	B222803	AES	11-Oct-22	EPA200.7	
Magnesium*	88.4	1.00	mg/L	10	B222803	AES	11-Oct-22	EPA200.7	
Potassium*	<10.0	10.0	mg/L	10	B222803	AES	11-Oct-22	EPA200.7	
Sodium*	250	10.0	mg/L	10	B222803	AES	11-Oct-22	EPA200.7	

Cardinal Laboratories

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PLEASE NOTE LIGHTLY and Damages. Currishare liability and Union's source remedy for any claim pricing, weetler leased in coveract or that, shall be immediate to the amount exist by ment for source. All claims including those for negligence at any other cruse exhibition, source that including studies make in weetle and in weetle and in vestig and recolved by Cardinal weetle that produces the applicable service. In his weet that Currinal no index no exhibition, which immediate, business meaning sets of one of produces are meaning sets of one of produces are meaning sets of one of the services terror of the services. Hereful restricting to the remoderate control of control of

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241 Project: SCHUBERT

Project Number: SCHUBERT FARMS #1 WATER SAM

B222803

B222803

B222803

B222803

500

500

500

AES

AES

AES

AES

11-Oct-22

11-Oct-22

11-Oct-22

11-Oct-22

EPA200.7

EPA200.7

EPA200:7

EPA200.7

Project Manager: BEN DONAHUE

Fax To:

Reported: 17-Oct-22 15:23

BRINE WATER H224652-03 (Water)

Analyte	Résult	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Total Barrier			Card	inal Laborato	ories					
Inorganic Compounds										
Alkalinity, Bicarbonate	254		5.00	mg/L	τ	2100726	GM	(19-Oct-22	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	4	2100726	GM	09-Oct-22	310.1	
Chloride*	174000		4.00	mg/L	I	2092901	AC	06-Oct-22	4500-C1-B	
Conductivity*	230000		1.00	umhos/cm @ 25°C	1	2100727	GM	07=Oet-22	120.E	
pH*	6.87		0.100	pH Unus	I	2100727	GM	07-Oct-22	150,1	
Temperature °C	22.3			pH Units	r	2100727	GM	07-Oct-22	150.1	
Sulfate*	2820		833	rog/L	83.3	2100725	GM	12-Oct-22	375.4	
TDS*	292000		5.00	mg/L	1	2100724	GM	10-Oct-22	160,1	
Alkalinity, Total*	208		4.00	mg/L	- L	2100726	GM	09-Oct-22	310()	
			Green An	alytical Labo	ratories					
Total Recoverable Metals by	ICP (E200.7)									

mg/L

mg/L

mg/L

50.0

50.0

500

500

Cardinal Laboratories

Calcium*

Magnesium*

Potassium*

Sodium*

*=Accredited Analyte

PLEASE NOTE: Lightly and Causings: Curritance liability and clients accounted entering to any claim inclined, weether leased in operant or out, shall be immode to the amount exist by ment for somption. All claims, including those for negligence at plane, including white crowded in the applicable service. To the service that Curring to the consequential consequential consequential including, which inhibitors, business internations, loss at use, or sees of profits including which crowded to the performance of the services internations, loss at use, or sees of profits including which crowded to the performance of the services international consequential c

Celley Thema-

683

138

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Celey D. Keene, Lab Director/Quality Manager

Page 5 of 11



Analytical Results For:

ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241

Project: SCHUBERT Project Number: SCHUBERT FARMS #1 WATER SAM

Reported: 17-Oct-22 15:23

Project Manager: BEN DONAHUE

Fax To:

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2092901 - General Prep - Wet Chem				140.5		4				
Blank (2092901-BLK1)				Prepared &	Analyzed:	29-Sep-22	8			
Chloride	ND	4.00	mg/L							
LCS (2092901-BS1)				Prepared &	Analyzed:	29-Sep-22	2			
Chloride	104	4.00	mg/L	100		104	80-120			
LCS Dup (2092901-BSD1)				Prepared &	Analyzed;	29-Sep-22	2			
Chloride	100	4.00	mg/L	100		100	80-120	3.92	20	
Batch 2093001 - Filtration										
Blank (2093001-BLK1)				Prepared: 3	0-Sep-22 A	Analyzed: (04-Oct-22			
TDS	ND	5.00	mg/L							
LCS (2093001-BSI)				Prepared: 3	0-Sep-22 A	Analyzed: (03-Oct-22			
TDS	492		mg/f	500		98.4	80-120			
Duplicate (2093001-DUP1)	Sou	ree: H224512	-04	Prepared: 3	0-Sep-22 /	nalyzed: (03-Oct-22			
TDS	584	5:00	mg/L		569			2,60	-20	
Batch 2100724 - Filtration										
Blank (2100724-BLK1)				Prepared: (7-Oct-22 A	malyzed: I	1-Oct-22			
TDS	ND	5.00	mg/L.							
LCS (2100724-BS1)				Prepared: (7-Oct-22 A	malyzed: 1	0-Oct-22			
ROT	534		mg/L	500		107	80-120			

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE LIGHTY and Country's Contract liability and colours excused to represent the contract of the contract colours and the country country country colours by country country (25) days after connection of the amount except some representations to consciourned commands, including these many colourned by contract of the contract of the applicable service. In the water that Contract on the contract of contract of the contra

Celley & Keine

Celey D. Keene, Lab Director/Quality Manager

Page 6 of 11



Analytical Results For:

ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241

Project: SCHUBERT

Project Number: SCHUBERT FARMS #1 WATER SAM Project Manager: BEN DONAHUE

Fax To:

Reported: 17-Oct-22 15:23

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2100724 - Filtration										
Duplicate (2100724-DUP1)	Sou	rce: H224652-	-03	Prepared: (07-Oct-22 A	analyzed: 1	0-Oct-22			
TDS	293000	5.00	mg/L		292000			0.262	20	
Batch 2100725 - General Prep - Wet Chem										
Blank (2100725-BLK1)				Prepared: (07-Oct-22 A	malyzed: L	2-Oct-22			
Sulfate	ND	10.0	mg/L							
LCS (2100725-BS1)				Prepared: (07-Oct-22 A	malyzed; L	2-Oct-22			
Sulfate	19.2	10.0	mg/L	20.0		95.9	80-120			
LCS Dup (2100725-BSD1)				Prepared: (07-Oct-22 A	malyzed: L	2-Oct-22			
Sulfate	21.4	0.00	mg/L	20.0		107	80-120	10.8	20	
Batch 2100726 - General Prep - Wet Chem Blank (2100726-BLK1)				Prepared: (7-Oct-22 A	malyzed: 0	9-Oct-22			
Alkalinity, Carbonate	ND	1,00	mg/L							
Alkalinity, Bicarbonate	5.00	5.00	mg/L							
Alkalinity, Total	4.00	4.00	mg/L							
LCS (2100726-BS1)				Prepared: (7-Oct-22 A	analyzed: 0	9-Oct-22			
Alkalinity, Carbonate	ND	2,50	mg/L				80-120			
Alkalinity, Bicarbonate	318	12.5	mg/L				80-120			
Alkalinity. Total	260	10.0	mg/L	250		104	80-120			
LCS Dup (2100726-BSD1)				Prepared: ()7-Oct-22 A	malyzed; 0	9-Oct-22			
Alkalinity, Carbonate	ND	2.50	mg/L				80-120		20	
Alkalinity, Ricarbonate	318	12.5	mg/I				80-120	0.00	20	
Alkalinity, Total	260	10.0	mg/L	250		104	80-120	0.00	20	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE LIGHTY and Country's Contract liability and chiefs accounted removal for any claim and one country and country to account the amount easy by ment for account liability, and chiefs make in weeting and recolored by Cardinal primer they (33) days after connected accountry to account source. In this water stall Contract to the contract of the applicable source. In this water stall Contract to consciousness accountry, which invitation, business mental contractions, liabilities internations, loss at use, or ose of profits incurred by vient, as subdictance, animates or accountry, business international, business mental contractions, loss at use, or ose of profits incurred by vient, as subdictance, animates or accountry at the contract of the services terminate or profits incurred by the contraction of the contraction of contractions of contractions and contractions.

Celey & Keens

Celey D. Keene, Lab Director/Quality Manager

Page 7 of 11



Analytical Results For:

ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241 Project; SCHUBERT

Project Number: SCHUBERT FARMS #1 WATER SAM Project Manager: BEN DONAHUE

Fax To:

Reported: 17-Oct-22 15:23

Inorganic Compounds - Quality Control

Cardinal Laboratories

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

LCS (2100727-BS1)			Prepared: 07-Oct-	22 Analyzed: 0	9-Oct-22		
Conductivity	99200	uS/em	100000	99.2	80-120		
pII	7.08	pH Units	7.00	101	90-110		
Duplicate (2100727-DUP1)	Source	: H224651-01	Prepared: 07-Oct-	22 Analyzed: 0	9-Oct-22		
Conductivity	655	1.00 umhos/cm @	64	(2.16	20

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: LIGHTY and Country: Cardinar's liability and chiefs accounted rememby for any claim inclined, amend in operand not count, shall be immoble to the amount easy by ment for assignment all claims, including those for negligence at any other cross exhibits assignment assignment

Celey T. Keene

Celey D. Keene, Lab Director/Quality Manager

Page 8 of 11



%REC

Limits

RPD

0.148

0.00174

2.62

0.0177

85-115

85-115

85-115

85-115

96,0

97.9

92.9

Reported:

17-Oct-22 15:23

RPD

Limit

20

20

20

20

Notes

Analytical Results For:

ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241

Analyte

Magnesium

Potassium

Sodium

Calcium

Project: SCHUBERT

Project Number: SCHUBERT FARMS #1 WATER SAM Project Manager: BEN DONAHUE

Spike

Level

10.0

4.00

1.62

2.00

Source

Result

%REC

Fax To:

Reporting

Limit

0.100

1.00

1.00

0.100

Result

9.55

3.84

1.59

1.86

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

Green Analytical Laboratories

Units

Blank (B222803-BLK1)				Prepared: 10-Oct	-22 Analyzed: I	1-Oct-22	
Magnesium	ND	0.100	mg/L				
Calcium	ND	0.100	mg/L				
Sodium	ND	1.00	mg/L				
Potassium	ND	1.00	mg/L				
LCS (B222803-BS1)				Prepared: 10-Oct	-22 Analyzed: 1	1-Oct-22	
LCS (B222803-BS1) Sodium	1.63	1.00	mg/L	Prepared: 10-Oct	-22 Analyzed: 1	1-Oct-22 85-115	
	1.63 3.84	1.00	mg/L mg/L				
Sodium			(1) Z. (1)	1.62	101	85-115	

mg/L

mg/l

mg/L

mg/L

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liberty and Gallages. Contracts libitary and others source remedy for any claim incline, weether leased in operact or out, shall be immode to the amount exist by ment for source. All claims, including those for negligence at any other cross exhibits assume these major as were strict. Contract in the applicable service. To the service that contract in concentration are applicable service. To the service the contract in the applicable service. To the service the contract in the applicable service to the service interest interest interest in the contract in the service interest interest. In the service interest interest interest in the service interest in the service interest. In the service interest in the service interest in the service interest interest.

Celley & Kreens

Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

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

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE LIGHTLY and Country's Edulary and Union's solvicine remedy for any state pricing, weether leased in contract or lost, shall be immedia to the account and shall be deemed waves unless made in winting and recolored by Cardinal weether thing (35) days after completion or this applicable service. To no worse that Common no liable to destinate all concountrial conscipulations, which immediate, business meaning units are one-processors, around upon any of the above tasked reasoning or otherwise. Resulter lattice by to the complex interfield price. This report shall not be personally concerned or contract and personal contractives.

Celey & Keene

Celey D. Keene, Lab Director/Quality Manager

Page 10 of 11

pg. 58

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

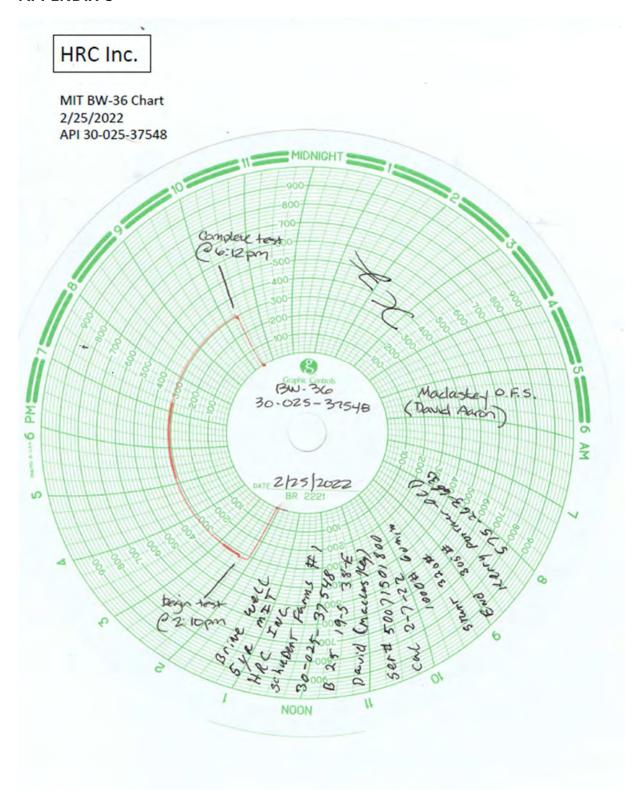
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Relinquished By	affinites or successors arising Relinquished By	PLEASE NOTE: Listility and Dam analyses. All claims including thos		a)	2	-	Lab I.D.	FOR LAB USE DNLY	Sampler Name:	Project Location	Project Name	Project #:	Phone #: 515	City: Hubbas	Address: P.O., Oyu	Project Manager: 1365	Company Name: E72
rcle One) Bus - Other:	1	shall Cardinal be fiative for incidental ors arising out of or inclased to the perfuse ed By:	d Damages. Cardinal's liability g those for negligence and a		V. 1	/	Moritor W	Samp		Ben Du	-	chubes h		Phone #: 575 343 3144	7	ST TO		ETZ West
Corrected Temp. °C 0.3	Time:	refuse, in no event shall Controlla the lattite for incidental or consequential damages, including without limitation, business detemptions, loss of use, or loss of profits incurried by class it is subscribed. Relinquished By: Date: Received/BY: All Results a	PLEASE NOTE: Labelity and Damages, Cardina's liability and disent's earbeave remark for any claim arising whether based in contract or lot, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and societies the Cardinal within 30 days after completion of the applicable		180	white	WEY	Sample I.D.		Deschare	#	A IA	Project Owner:	Fax #:	State: NA	10	Denabure	NAPAN SAMUN
	Received	Received By:	or any claim arising who deemed waived un		52	-	62V	(G)RAB OR (C)OM # CONTAINERS GROUNDWATER	Ρ.		Brico Well	dwg 10	ner:		MESSE SOIL			
Sample Condition Cool Intact Yes Tyes No No	Received By:	pureful demanges, including without limitation, business interruptions, loss of up of services hereunder by Cardinal, regardloss of whether such claim is based Date: Received By:	hether based in contract or hess made in writing and r					WASTEWATER SOIL OIL SLUDGE	MATRIX	L								
n CHECKED BY:	Month	based upon erry of the abo	riort, shall be limited to the eceived by Cardinal wittin		10	۵.	à	OTHER: ACID/BASE: ICE / COOL OTHER:	PRESERV.	Fax #:	Phone #:	State: Zip:	City:	Address:	Attn:	Company:	P.O. #:	BILL
BY: Turnaround Time:) Thermometer ID #113 Correction Factor -0.6°C	SO-10	reurred by clant. Its subectasias, ve stated reactors or otherwise. Verbal Result: All Results are a	amount paid by the client for 30 days after completion of the		4	5	15/229 Soon	DATE TIME	SAMPLING			Ď.						TO
1000	GOTIM SCHUNZER+	Yes	ha applicable		~	_	2	Carion /	An	10	2							
Standard 1	10 BM	□ No Add	F															ANA
Bacteria (only) \$ Cool Intact Yes Yes No	gonail can	Add'I Phone #:																SISAT
Bacteria (only) Sample Condition Cool Intact Observed Temp. °C Yes Yes Yes No Corrected Temp. °C																		REQUEST
င်္ဂ ဂိ			E															

Page 11 of 11

APPENDIX C



BW-36

API # 30-025-37548

2/25/2022 MIT Test

2/25/2022

8:00 AM: Rig up Maclaskey Oil Field Service (David Aaron); Shut in discharge @ casing & begin pumping down tubing to reach test pressure. Well required approx. 260 bbl. pumped down tubing to bring cavern pressure from normal working pressure (approx. 245 psig) to cavern test pressure (approx. 318 psig).

2:00 PM: Install chart on chart recorder; open valve to chart recorder & isolate chart recorder from pump truck.

2:10 PM: Begin Test (cavern pressure approx. 318 psig)

6:12 PM: Complete Test (cavern pressure approx. 309 psig); bleed pressure off of chart recorder

6:30 PM: Rig down/release Maclaskey Pump Truck

7:20 PM: Open casing to production tanks and bleed off pressure overnight

2/26/2022

8:15 AM: Put well back on production (cavern pressure approx. 240 psig)

*Chart recorder was set on 12 hour clock setting, see American Valve certification page for chart recorder calibration.

American Valve & Meter, Inc.

1113 W. BROADWAY

P.O. BOX 166 HOBBS,NM 88240

T0: Maclaskey Oilfield Services

DATE: 2/7/22

This is to certify	that:
--------------------	-------

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

08" Pressure recorder

S/N: 50071501800

at these points.

Remarks:

	Pressure #10	000	Tempera	ture *or Pressur	e #
Test	Found	Left	Test	Found	Left
- 0	-	- 0		-	-
- 500	-	- 500	-	-	-
- 700	-	- 700	-	-	-
- 1000	-	- 1000	-	-	-
- 200		- 200	-	-	-
- 0		- 0			

Signature:

Submit 1 Copy To Appropriate District Office	State of New Mexico	Form C-103
District I = (575) 393-6161 Effers 1625 N. French Dr., Hobbs, NM 88240 District II = (575) 748-1283	y, Minerals and Natural Resources	WELL API NO. 30-025-37548
811 S. First St., Artesia, NM 88210 OIL District III – (505) 334-6178	CONSERVATION DIVISION	5. Indicate Type of Lease
1000 Rio Brazos Rd., Aztec, NM 87410	1220 South St. Francis Dr.	STATE FEE
District IV – (505) 476-3460 1220 S. St. Francis Dr., Santa Fe, NM 87505	Santa Fe, NM 87505	6. State Oil & Gas Lease No.
SUNDRY NOTICES AND I (DO NOT USE THIS FORM FOR PROPOSALS TO DRI	LL OR TO DEEPEN OR PLUG BACK TO A	7. Lease Name or Unit Agreement Nama Schubes Farms (316329)
DIFFERENT RESERVOIR. USE "APPLICATION FOR PROPOSALS.)		8. Well Number 601
Type of Well: Oil Well Gas Well Name of Operator	Other Brine Well	9. OGRID Number
HRC Inc.		131652
3. Address of Operator P.O. Pox 5102 Hobbs	NA 88241	10. Pool name or Wildcat Salado
4. Well Location	1	
	eet from the N line and 1	
	Township 19-5 Range 38-E	NMPM County Lea
II. Eleval	ion (Show whether DR, RKB, RT, GR, etc.	c)
Check Appropriate	Box to Indicate Nature of Notice	, Report or Other Data
NOTICE OF INTENTION	ITO: SIII	BSEQUENT REPORT OF:
	D ABANDON REMEDIAL WO	
TEMPORARILY ABANDON CHANGE	PLANS COMMENCE DE	RILLING OPNS. PAND A
PULL OR ALTER CASING MULTIPLE	COMPL CASING/CEME	NT JOB
CLOSED-LOOP SYSTEM		
OTHER:	□ OTHER:	Ø
Describe proposed or completed operati	ons. (Clearly state all pertinent details, a	nd give pertinent dates, including estimated date
of starting any proposed work). SEE RI proposed completion or recompletion.	ULE 19.15.7.14 NMAC. For Multiple Co	ompletions: Attach wellbore diagram of
Performed 5-year M	IT on Brice Well	
		·
* SEE ATTICHED W	IORKOVER PROCEDURE	E CONCRETION REPORT
_		
Spud Date:	Rig Release Date:	
Spud Date.	Rig Release Date.	
I hereby certify that the information above is true	and complete to the best of my knowled	ge and belief.
· Cul		
SIGNATURE COLL PURIL	TITLE Owner	DATE 2 25 2022
Tomas Marine	Barrier decimark	A Parros (515)
Type or print name Good (1) Solution	E-mail address: gor mschus	PHONE: 343-6662
	TITLE	
APPROVED BY: Conditions of Approval (if any):	TITLE	DATE
Conditions of Approval (II any):		

District 1 1625 N. Fresch Dr., Hobbs, NM 88200 Phone: (575) 393-6461 Fax: (175) 391-0720 State of New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division Hobbs District Office BRADENHEAD TEST REPORT Name 30-025-HRC Property Name Schubert tarms 00 1. Surface Location 19-5 Range N/S Line 330 Feet From EAV Line County 38-€ 5 2 Lea N 1650 Well Status Brine Well TA'D WELL INJECTOR PRODUCER YES OIL 250 YES INJ NO SWD GAS 2-25-22 No Packer OBSERVED DATA (A)Surface (B)Interm(1) (C)Interm(2) (E)Tubing (D)Prod Csng Pressure NA 260 Flow Characteristics Puff CO2 YIN Y/N WTR___ Steady Flow YIN Y/N GAS Surges Y/N Y/N YIN Type of Plaid Down to nothing Y/N Y/N Y / N falcont for Waterfreid W Gas or Oil Y / 0 YIN Y/N YIN Water YIN Y/N YIN Remarks - Please state for each string (A,B,C,D,E) pertinent information regarding bleed down or continuous build up if applies. Annual Maclas Key (Pavid)

Start \$ 320#

Ser# 50671501800

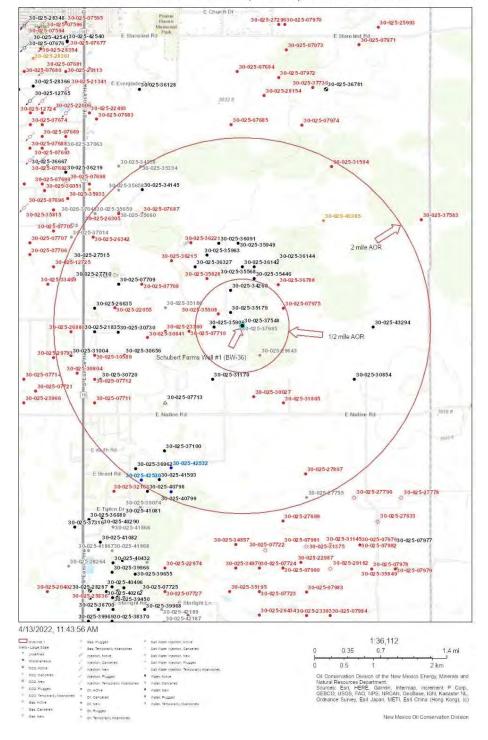
ENd 305# Cal 2-7-22

	OIL CONSERVATION DIVISION				
	Entered into RBDMS				
	Re-test				
)(1				
Phone:	1				
Witness Kerry ForTwer- OCD					
	V				

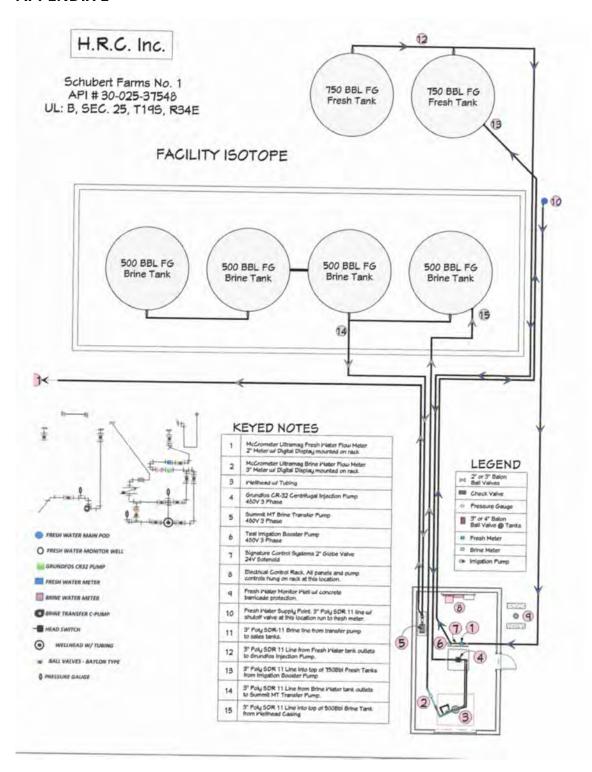
INSTRUCTIONS ON BACK OF THIS FORM

APPENDIX D

Schubert Farms Well #1 (BW-36) 1/2 & 2 Mi AOR

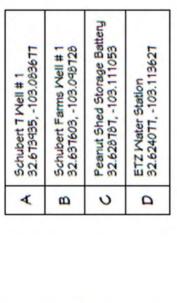


APPENDIX E



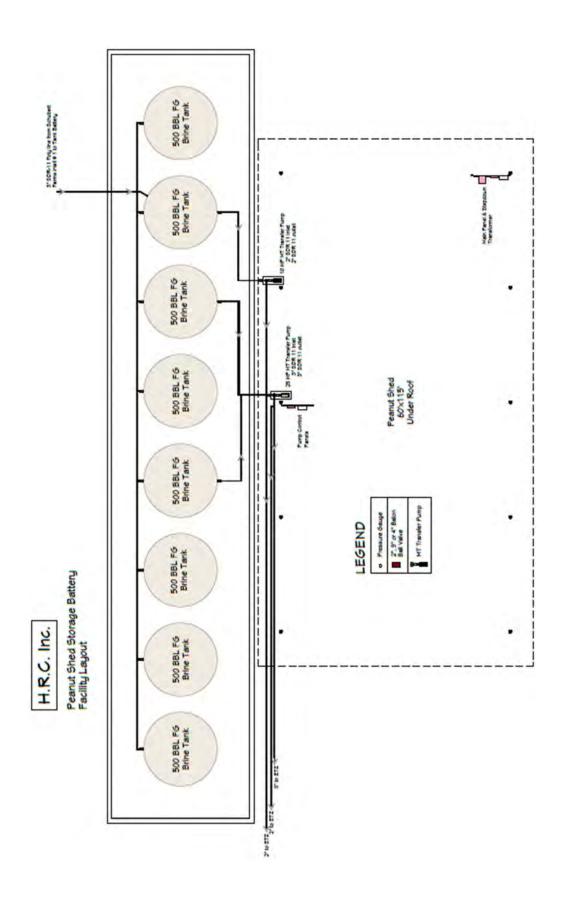
H.R.C. Inc.

Pipeline Overlay Map

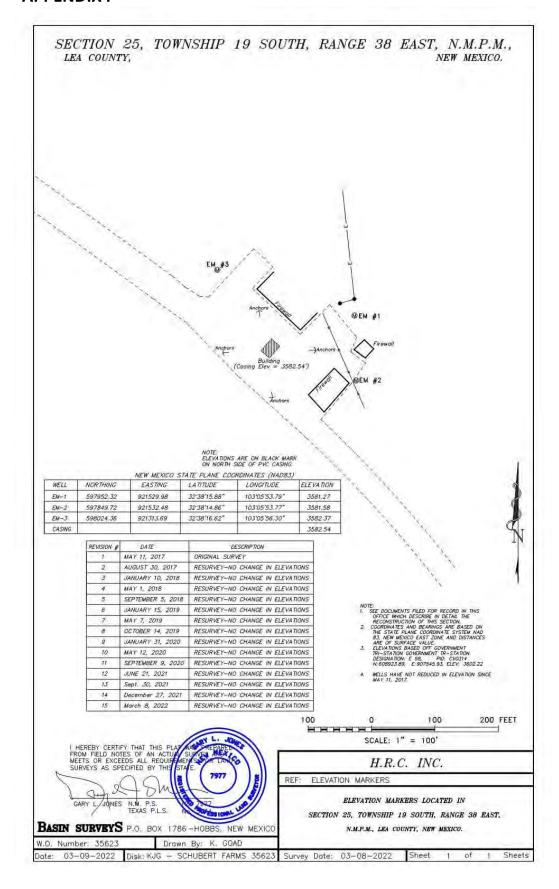


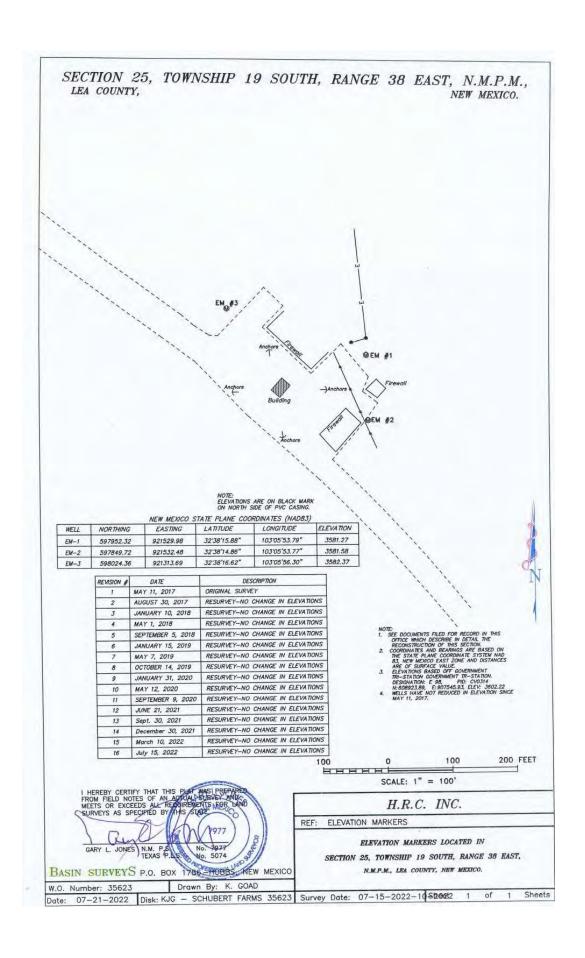
3" SDR 11 Poly pipeline from Schubert 7 Well # 1 to ETZ Water Station 3" SDR 11 Poly pipeline from Schubert Farms Well # 1 to Peanut Shed Storage Battery 3" SDR 11 Poly pipeline from transfer pump at Peanut Shed to ETZ Water Station 2" SDR 11 Poly pipeline from transfer pump at Peanut Shed to ETZ Water Station 2" SDR 11 Poly pipeline from transfer pump at Peanut Shed to ETZ Water Station at Peanut Shed to ETZ Water Station
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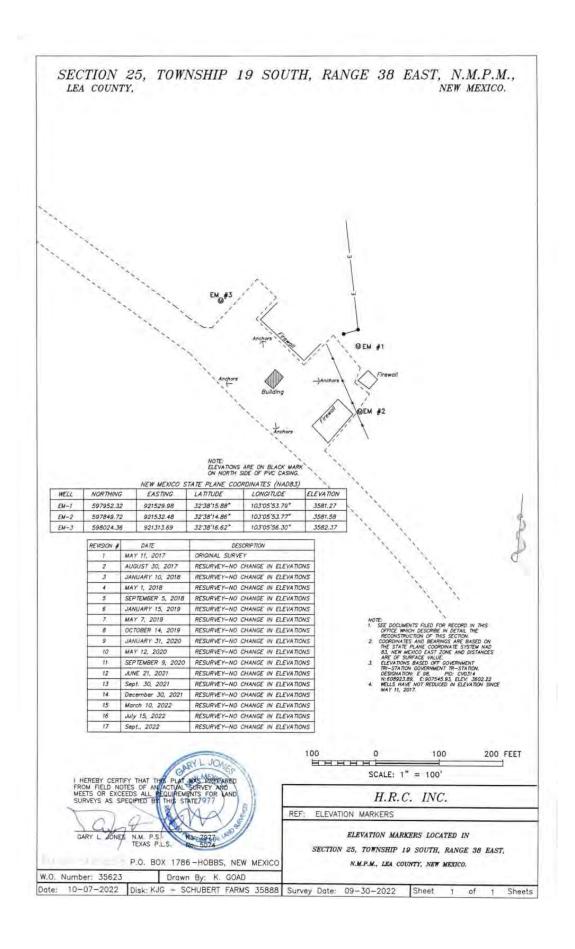




APPENDIX F

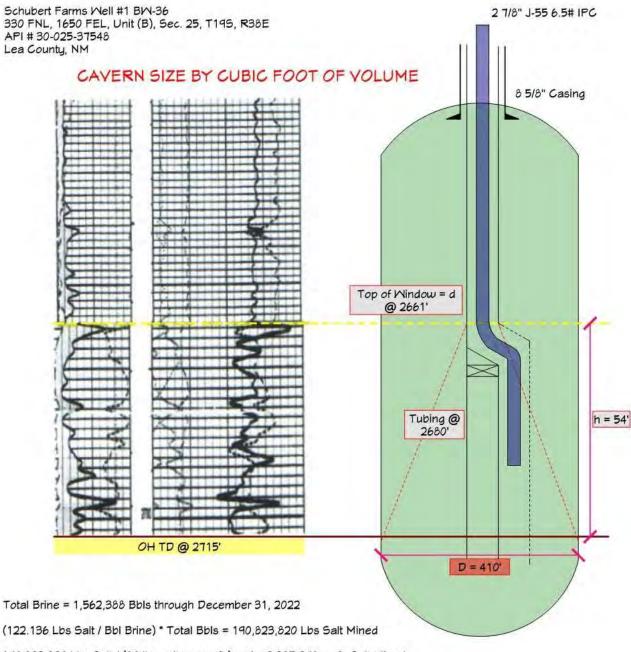






APPENDIX G

H.R.C. Inc.



190,823,820 Lbs Salt / (80 lbs salt per cu ft.) = V = 2,385,298 cu ft. Salt Mined

Using V= Π R ²h/3 where V = 2,385,298 cu ft. h = 54 ft.

Cavern Radius R = 205 ft. Diameter of Cavern D = 2R = 410 ft. Cavern Depth d = 2661 ft.

The Diameter to depth ratio D/d = Cavern size factor 410' / 2661' = 0.154 , <0.5 max

PPG 9.98 Brine PPG 8.34 Fresh SG 1.1951

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 190411

COMMENTS

Operator:	OGRID:
HRC INC	131652
P.O. Box 5102	Action Number:
Hobbs, NM 88241	190411
	Action Type:
	[UF-DP] NOI Brine Facility Discharge Plan (DISCHARGE PLAN BRINE EXTRACTION NOI)

COMMENTS

Created By		Comment Date
cchavez	BW-36 Annual Report 2022	2/24/2023

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**

CONDITIONS

Action 190411

CONDITIONS

Operator:	OGRID:
HRC INC	131652
P.O. Box 5102	Action Number:
Hobbs, NM 88241	190411
	Action Type:
	[UF-DP] NOI Brine Facility Discharge Plan (DISCHARGE PLAN BRINE EXTRACTION NOI)

CONDITIONS

Created By		Condition Date
cchavez	None	2/24/2023