BW - ____36____

ANNUAL REPORTS

HRC, INC.

P. O. Box 5102 Hobbs, NM 88241-5102 Phone # (575) 393-6662 Fax # (575) 393-6662

January 21, 2020

Jim Griswold Senior Hydrologist ENMRD/Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87508

Ref: 2019 Annual Report Schubert Farms No. 1 (API # 30-025-37548)

Dear Mr. Griswold.

Enclosed please find the monthly freshwater injection and brine production numbers for the Hobbs facility for the year of 2019. Included also are Cardinal Laboratories' results of analyses for samples for the month of June 2019 and December, 2019 and the production amounts for January 2019 through December 2019 for your reference.

Thank you,

Sincerely,

Gary M. Schubert

GMS/br

Enclosure

ANNUAL CLASS III WELL REPORT H.R.C., INC.

YEARLY REPORT (BW-036)

API 30-025-37548

February 27, 2020

DAVID ALVARADO

(ACTING AGENT FOR H.R.C., INC.)

20.6.2.3107 NMAC MONITORING, REPORTING, AND OTHER REQUIERMENTS

SUMMARY OF CLASS III OPERATIONS 2019

Schubert Farms Well # 1 operations in 2019 recorded no leaks had occurred during the year. The fresh water systems well insulated protected the fresh water from freezing. All meters and valves were well protected and are in good working conditions.

H.R.C., Inc. Preventive maintenance scheduled plan is to replace any connections or valves that could be showing wear. This will continue as a safe operating condition and it will continue in 2020 as needed. Connections are changed out when the first sign of salt is seen behind the threaded end.

During 2019 the transfer pump that transports brine to the sales tanks had the mechanical seals replaced in the month of November this is a common task due to the abrasion of the 9.98 PPG brine. In 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.

Daily inspections of all lines and connections are visually looked at during a walk around of the facility tanks. All lines are each walked and visually inspected that lead to the pump house. Readings on pressure gauges are recorded with the reading of the brine output meter and the injection of fresh water are recorded on the day to month logs. Safety shut off mechanisms are tested to insure if high or low pressures were to occur all systems would shut down.

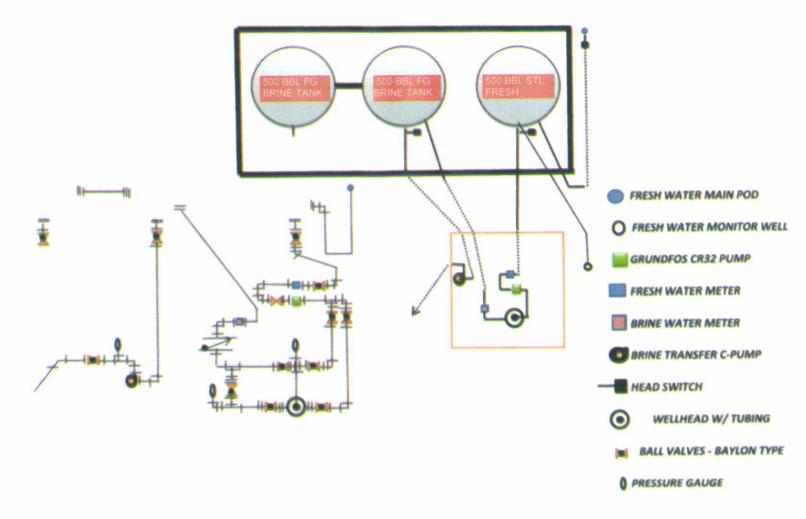
A total of 263,276 Bbl. of brine was extracted and weighed at an average of 9.89 PPG or a SG of 1.1851 in 2019. Production of brine slowed down due to demand of brine during the months of July, August and September attributed to the slight slowdown of the oil Industry. Brine sales rebounded in October and held steady at a means of 25,074 bbl. per month for the rest of 2019. Compared with the 306,806 bbl. produced in 2018.

H.R.C., Inc. Schubert Farms #1 is an asset and continues to assist in the needs of the Industry.

Please find below a schematic of the facility operations of equipment on the BW-36

SCHUBERT FARMS No. 1 API # 30-025-37548 UL: B, SEC 25, T198, R34E

FACILITY ISOTOPE



2019 FLUID INJECTION & BRINE PRODUCTION VOLUME

MONTH	BRIINE	FRESH WATER	
JANUARY	33,307	33,197	
FEBRUARY	32,545	32,279	
MARCH	31,057	30,864	
APRIL	23,006	22,861	
MAY	22,428	22,233	·
JUNE	20,388	20,252	
JULY	10,459	10,366	
AUGUST	8,009	7,924	
SEPTEMBER	6,854	6,790	
OCTOBER	25,640	25,500	·
NOVEMBER	22,023	21,933	
DECEMBER	27,560	27,459	
YEAR TOTAL	263,276	261,658	

YEARLY TOTALS BRINE & FRESH

YEAR	BRINE	FRESH	
2017	153,518	148,678	
2018	306,806	303,899	
2019	263,276	261,658	
TOTAL	723,600	714,235	

Semi-Annual Monitor Well Analytical Data Results

Monitor well for the BW-36 last testing for 2018 is on record with OCD, Cardinal Laboratories performed and sampled water from the monitor well on November 21, 2018 for your review. Cardinal Laboratories is accredited through Texas NELAP under certificate number T10470439-18-11.

Cardinal Laboratories is accredited 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)

Please find the Table below comparison of the June 2019 sample and December 2019 sample for Inorganic Compounds and Total Recovery Metals by ICP (E200.7) full detail of the Analytical results are attached at the end of this report for your viewing.

Analyte	Result	MDL	Reporting	Units	Analyzed	Method
			Limit		Date	

INORGANIC COMPOUNDS JUNE 2019

Alkalinity, Bicarbonate	254	5.00	mg/L	6-12-19	310.1
Alkalinity					
Carbonate	<1.00	1.00	mg/L	6-12-19	310.1
Chloride	356	4.00	mg/L	6-13-19	4500-C1-B
Conductivity	1900	1.0	uS/cm	6-12-19	120.1
рН	7.49	0.100	pH Units	6-12-19	150.1
Sulfate	272	50.0	mg/L	6-11-19	375.4
TDS	1160	5.0	mg/L	6-13-19	160.1
Alkalinity					
Total	208	4.0	mg/L	6-12-19	310.1

Continued Report for June 2019

Analyte	Result	MDL	Reporting Limit	Units	Analyzed Date	Method
Calcium	189		0.500	mg/L	6-18-19	EPA200.7
Magnesium	49.6		0.500	mg/L	6-18-19	EPA200.7
Potassium	5.79	0.339	5.00	mg/L	6-18-19	EPA200.7
Sodium	150		5.00	mg/L	6-18-19	EPA200.7

DECEMBER 2019 RESULTS

Analyte	Result	MDL	Reporting	Units	Analyzed	Method
			Limit		Date	

INORGANIC COMPOUNDS

Alkalinity, Bicarbonate	229	5.0	mg/L	12-20-19	310.1
Alkalinity					
Carbonate	<1.00	1.00	mg/L	12-20-19	310.1
Chloride	404	4.0	mg/L	12-19-19	4500-C1-B
Conductivity	2140	1.00	uS/cm	12-20-19	120.1
pН	7.60	0.100	pH Units	12-20-19	150.1
Sulfate	266	50.0	mg/L	12-23-19	150.1
TDS	1250	5.00	mg/L	12-23-19	160.1
Alkalinity					
Total	188	4.0	mg/L	12-20-19	310.1

TOTAL RECOVERABLE METALS by ICP (E220.7)

Calcium	208		5.00	mg/L	12-27-19	EPA200.7
Magnesium	55.9		5.00	mg/L	12-27-19	EPA200.7
Potassium	<3.39	0.339	50.00	mg/L	12-27-19	EPA200.7
Sodium	165		50.00	mg/L	12-27-19	EPA200.7

INJECTION PRESSURE

1

Injection pressure still runs the same the annulus average is 20 PSIG and the tubing average is at 240 PSIG the RFD pump runs at 56.3 Hz. with a yield of 28 GPM. The lease operator checks the pressure daily and records it on his daily logs.

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 ANITZ sales facility located 0.8 miles east of WHY 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' tank 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 ANITZ 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 Inspections Monitoring

H.R.C., Inc. Operation personnel walks each line that is above ground and inspects all connecting points for any sign of leaks or sweating of threads on connections daily.

The Lease Operator drives out the lines that are underground and below frost level for any signs of compromised line integrity. This is done up to four times a day.

Quarterly Chemical Analyses

Cardinal Laboratories is accredited through Texas NELAP under certificate number T10470439-18-11.

Cardinal Laboratories is accredited 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)

Depicted below is Cardinals Analytical Results for Brine and Fresh water at the BW-31.

With this reports is attached the Cardinals results for your viewing.

BRINE ANALYTICAL RESULTS: JUNE 2019

	Analyte	Result	MDL	Reporting	Units	Analyzed	Method
Ì				Limit		Date	

Alkalinity, Bicarbonate	234	5.0	mg/L	6-12-19	310.1
Alkalinity					
Carbonate	<1.00	1.00	mg/L	6-12-19	310.1
Chloride	188,000	4.00	mg/L	6-13-19	4500-C1-B
Conductivity	236,000	1.00	uS/cm	6-12-19	120.1
pН	6.93	0.100	pH Units	6-12-19	150.1
Sulfate	2540	500	mg/L	6-11-19	375.4
TDS	284,000	5.00	mg/L	6-14-19	160.1

H.R.C., Inc.

Alkalinity					
Total	192	4.0	mg/L	6-12-19	310.1

TOTAL RECOVERABLE METALS by ICP (E220.7)

Continued Brine Report for June 2019

Analyte	Result	MDL	Reporting Limit	Units	Analyzed Date	Method
Calcium	705		25.0	mg/L	6-18-19	EPA200.7
Magnesium	303		25.0	mg/L	6-18-19	EPA200.7
Potassium	606	16.9	250	mg/L	6-18-19	EPA200.7
Sodium	145,000		1000	mg/L	6-19-19	EPA200.7

BRINE ANALYTICAL RESULTS: DECEMBER 2019

Analyte	Result	MDL	Reporting	Units	Analyzed	Method
			Limit		Date	

Alkalinity, Bicarbonate	234	5.0	mg/L	12-20-19	310.1
Alkalinity Carbonate	<1.00	1.00	mg/L	12-20-19	310.1
Chloride	176,000	4.00	mg/L	12-19-19	4500-C1-B
Conductivity	263,000	1.00	uS/cm	12-20-19	120.1
рH	7.16	0.100	pH Units	12-20-19	150.1
Sulfate	2660	500	mg/L	12-23-19	375.4
TDS	283,000	5.00	mg/L	12-23-19	160.1
Alkalinity					
Total	192	4.0	mg/L	12-20-19	310.1

Continued Brine Report for December 2019

Analyte	Result	MDL	Reporting Limit	Units	Analyzed Date	Method
Calcium	744		100.0	mg/L	12-27-19	EPA200.7
Magnesium	233		100.0	mg/L	12-27-19	EPA200.7
Potassium	340	67.7	1000	mg/L	12-27-19	EPA200.7
Sodium	118,000		1000	mg/L	12-27-19	EPA200.7

FRESH WATER ANALYTICAL RESULTS: JUNE 2019

Analyte	Result	MDL	Reporting	Units	Analyzed	Method
			Limit		Date	

Alkalinity, Bicarbonate	224	5.00	mg/L	6-12-19	310.1
Alkalinity					
Carbonate	<1.00	1.00	mg/L	6-12-19	310.1
Chloride	140	4.00	mg/L	6-13-19	4500-C1-B
Conductivity	1040	1.00	uS/cm	6-12-19	120.1
рН	7.82	0.100	pH Units	6-12-19	150.1
Sulfate	190	25.00	mg/L	6-11-19	375.4
TDS	675	5.00	mg/L	6-13-19	160.1
Alkalinity					
Total	184	4.00	mg/L	6-12-19	310.1

Continued F/W Report for June 2019

Analyte	Result	MDL	Reporting Limit	Units	Analyzed Date	Method
Calcium	102		0.500	mg/L	6-18-19	EPA200.7
Calcium						
Magnesium	28.2		0.500	mg/L	6-18-19	EPA200.7
Magnesium Potassium	28.2 4.15	0.339	0.500 5.00	mg/L mg/L	6-18-19 6-18-19	EPA200.7 EPA200.7

FRESH WATER ANALYTICAL RESULTS: DECEMBER 2019

Analyte	Result	MDL	Reporting	Units	Analyzed	Method
•			Limit		Date	

Alkalinity, Bicarbonate	298	5.00	mg/L	12-20-19	310.1
Alkalinity Carbonate	<1.00	1.00	mg/L	12-20-19	310.1
Chloride	248	4.00	mg/L	12-19-19	4500-C1-B
Conductivity	1,640	1.00	uS/cm	12-20-19	120.1
pH	7.65	0.100	pH Units	12-20-19	150.1
Sulfate	206	50.0	mg/L	12-23-19	375.4
TDS	979	5.00	mg/L	12-23-19	160.1
Alkalinity Total	244	4.00	mg/L	12-20-19	310.1

Continued F/W Report for December 2019

Analyte	Result	MDL	Reporting Limit	Units	Analyzed Date	Method
Calcium	144		5.00	mg/L	12-27-19	EPA200.7
Magnesium	27.6		5.00	mg/L	12-27-19	EPA200.7
Potassium	20.8	3.39	50.00	mg/L	12-27-19	EPA200.7
Sodium	176		50.00	mg/L	12-27-19	EPA200.7

MECHANICAL INTEGRITY TEST CHART

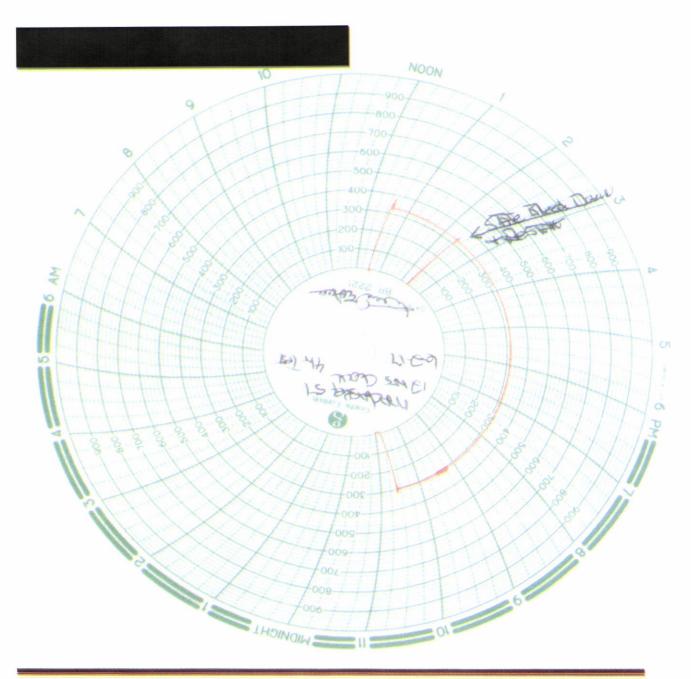
A formation mechanical test was performed on 2/23/17 on the BW-36. The Salado Formation was pressured up to 320 psi and was witnessed by a district officer and C-103 approved by Mark Whitaker in Hobbs on 11/15/17.

Recorder was removed and well was bled back to tanks. Nipple up connections and placed well back into operation producing brine at 230-240 psi. Please find the subsequent report C-103 and the Chart below for your viewing.

Next formation integrity test will be scheduled in February of 2022 H.R.C., Inc. will notify Santa Fe and Hobbs District Office to set up a time and date of the BW-36 Formation MIT.

Please find a copy of the MIT Chart on page 13 on page 14, 15 the C-103 Subsequent Report.

MIT BW-36 CHART 6-2-17



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Feb 9, 2017

ting up Capitan Wireline and set (18P to 2567; above previous CIBP and rement plug that was set to 2750° on June 21, 2016. (CIBP above top of coment was required to set whip stock by Baker Hughes).

Feb. 20, 2017

Rig up Lucky Services and Baker Hughes reverse unit Set BOP; run in hole with 2 7/8° tubing and csp. scraper, circulate, tag CIBP to 2660 Run in hole with whipstock and set, lay down 2 joints SDFN.

Feb. 21, 2017

Rig up swivel; milt csg. from 2651 to 2661", come out of hale and rig up with bit assembly. POOH with mill, lay down, make up bit assy. Run in hole begin drill into salt, drill from 2661" to 2715. Rig down swivel and pull up into csg. SDFN.

Feb 22, 2017

RILL tag @ 2703, wash to 2715, circulate; space out tbg. with sub-Set bottom of tbg / bit assembly @ 2680 Rig down swivel and pulling unit Install well head Hook up reverse unit. Circulate and pressure to 275 ps. SDFN

Feb. 23, 2017

Pressure to 300 ps; make chart; Curulate 5 hours at 150 to 200 ps; Water turns salty. Tig down reverse unit; Shut well in Begin installing surface equipment

April 17, 2017

Beem injecting water to produce brine water

H.R.C., Inc. has updated the AOR for the Schubert Farms Well # 1 (BW-36) showing no new permits have been plotted on the NM OCD GIS program in the half mile AOR. H.R.C., Inc. will give notice to the Department if any future staking transpires within the AOR.

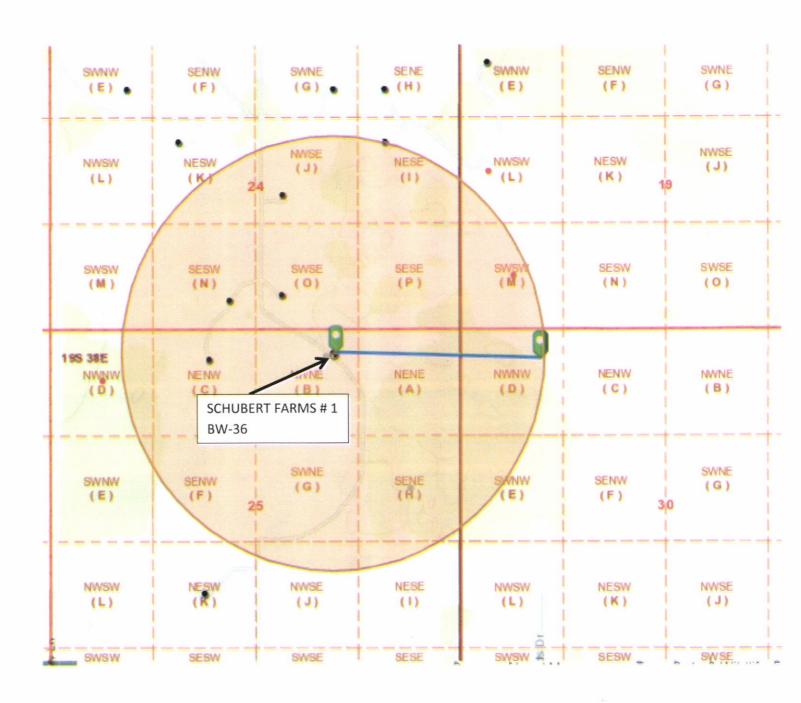
Please find on page 17 a half mile AOR review map showing no new permits nor has there been any new wells drilled at this point.

Please find on page 18 a two mile AOR review showing three new permits below are the APDs in the two mile AOR.

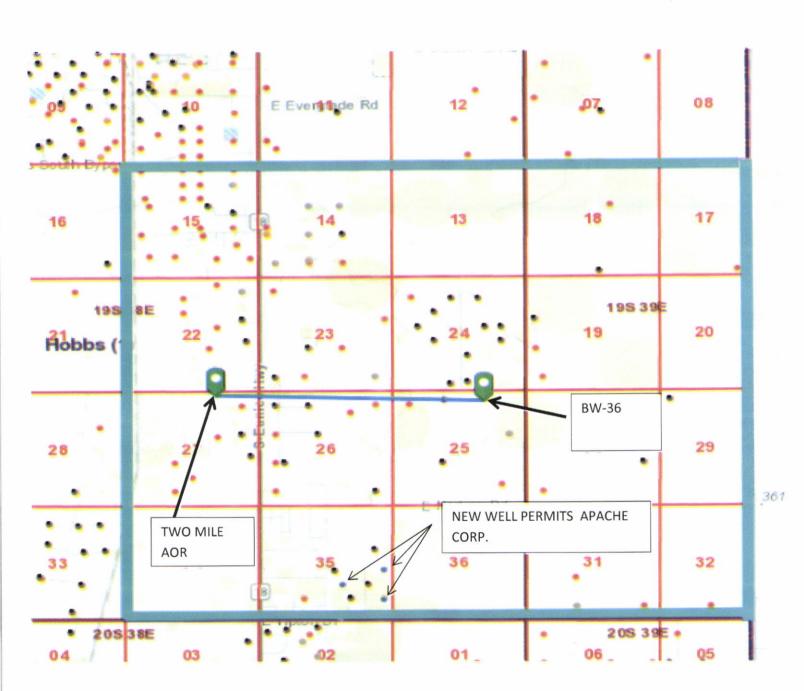
New Permits to Drill in Two Mile AOR

30-025-	Werta	Apache	I-35-19S-	32.61576	-103.11174	Oil
42532	Federal #	Corp.	38E			House
	006	i				Drinker
30-025-	Plow Boy	Apache	J-35-19S-	32.61394	-103-11716	Oil
42530	Federal #	Corp.	38E			House
	002					Blinebry
30-025-	Werta	Apache	P-35-19S-	32.61213	-103.11175	Oil
42531	Federal #	Corp.	38E			House
	005					Blinebry

HALF MILE AOR SCHUBERT FARMS WELL # 1 (BW-36)



TWO MILE AOR SCHUBERT FARMS WELL # 1 (BW-36)



MITS, SURFACE SUBSIDENCE SURVEYS, CAVERN SIZE AND SHAPE AND VOLUME

Please see page 13 through page 15 for last MIT conducted and C-103 Subsequent Report on 6-2-17 held 300 psi and passed with OCD witnesses.

Surface Subsidence Surveys were conducted by Basin Surveys certified by Gary L. Jones. Three Elevation markers are in place. Please find below where the EM markers are located for BW-36.

NEW MEXICO STATE PLANE COORDINATES (NAD83)

WELL	NORTHING	EASTING	LATITUDE	LONGITUDE	ELEVATION
EM-1	597952.32	921529.98	32°38′15.88″	103°05′53.79″	3581.27
EM-2	597849.72	921532.48	32°38′14.86″	103°05′53.77″	3581.58
EM-3	598024.36	921313.69	32°38′16.62″	103°05′56.30″	3582.37

Three Surveys were conducted by Basin Surveys during the 2019 period with the description stating there were no changes in elevations that had occurred also one survey that was conducted in January 2020. H.R.C., Inc. has depicted the 2019 reports of the surveys for your review in the table below. Please find the plats of the Surveys at the end of this report for your viewing.

REVISION #	DATE	DESCRIPTION
6	January 15, 2019	Resurvey-No Change in Elevations
7	May 7, 2019	Resurvey-No Change in Elevations
8	October 14, 2019	Resurvey-No Change in Elevations
9	January 31, 2020	Resurvey-No Change in Elevations

Cavern Characterization

BW-36 has extracted an estimated total of 1,104,720 ft.³ of Halite from the Salado formation from March, 2017 to December 31, 2019. This calculates to 88,377,610 lbs. of Halite that has produced 723,600 Bbl. of brine within this period stated above.

The Litho Density Compensated Neutron log shown on page 21 has approximately 51' of good Halite net pay showing less than 4 API units on the Gama Ray side of the log that is presently being mined. This interval is from 2661'-2715'

Without a true means of running a log that would allow us to see a true picture behind the anhydrite rock would be questionable. The characterization of the cavern can be mathematically calculated using $V=\Pi R^2h/3$ where $[V=(3.14159*139.771^2)*(54')/3]$

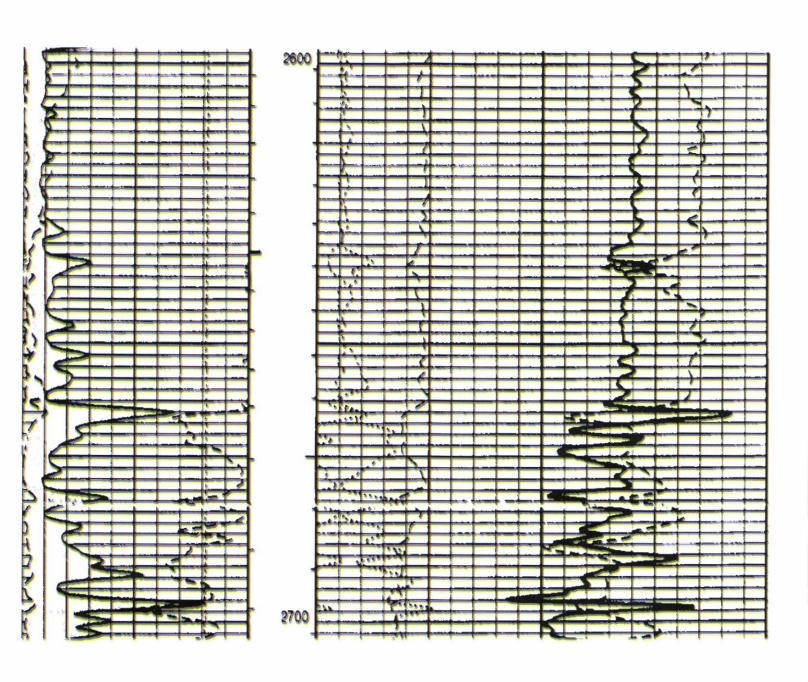
V = 1,104,730 ft.³ of Halite has been extracted to date respectively. This amount of volume calculated correlates with the total of brine produced from 2017 through December 31, 2019 of 1,104,720 Bbl.

It takes 122.136 Lbs. of salt to produce one barrel of quality brine yielding a Specific Gravity of 1.1959. Multiplying salt ratio to total fluid bbl. total of 723,600 (extracted fluid bbl.) equals 88,377,610 Lbs. of salt mined from 2017 to the end of December 31, 2019.

Taking the amount of Halite mined of 88,377,610 Lbs. and dividing the amount by 80 (Lbs. salt per ft. 3) will equal 1,104,720 ft. 3 . In respect to the cavern safety factor of 0.45 % the Schubert Farms Well No. 1 (BW-36) has a factor value of (279.54′ W / 955′ H) = 0.29 well below the States warning factor. New horizons above 2661′ will yield greater opportunities.

BW-36 has a lot of life to continue mining for Halite that is used throughout our needs for the oil industry in Southeastern New Mexico.

SCHUBERT FARMS WELL # 001 LITHO DENSITY COMPENSATED NEUTRON LOG WINDOW @ 2661' TD OH 2715'



SUMMARY RATIO INJECTION VS. EXTRACTION

2019 FLUID INJECTION & BRINE PRODUCTION VOLUME RATIO %

MONTH	BRIINE	PSI	FRESH	PSI	RATIO	RATIO
			WATER			%
JANUARY	33,307	230-240	33,197	20	33307:33197	1.003314
FEBRUARY	32,545	230-240	32,279	20	32545:32279	1.008241
MARCH	31,057	230-240	30,864	20	31057:30864	1.006253
APRIL	23,006	230-240	22,861	20	23006:22861	1.006343
MAY	22,428	230-240	22,233	20	7476:7411	1.008771
JUNE	20,388	230-240	20,252	20	5097:5063	1.006715
JULY	10,459	230-240	10,366	20	10459:10366	1.008972
AUGUST	8009	230-240	7,924	20	8009:7924	1.010727
SEPTEMBER	6,854	230-240	6,790	20	3427:3395	1.009426
OCTOBER	25,640	230-240	25,500	20	1282:1275	1.00549
NOVEMBER	22,023	230-240	21,933	20	2447:2437	1.004103
DECEMBER	27,560	230-240	27,459	20	27560:27459	1.003678

MAJOR FACILITY ACTIVITY OR EVENTS

No major activities or events have taken place during 2019 on location.

SURFACE SUBSIDENCE MONITORING PLAN

Surface Subsidence Surveys were conducted by Basin Surveys certified by Gary L. Jones. Three Elevation markers are in place. Please find below where the EM markers are located for BW-36.

NEW MEXICO STATE PLANE COORDINATES (NAD83)

WELL	NORTHING	EASTING	LATITUDE	LONGITUDE	ELEVATION
EM-1	597952.32	921529.98	32°38′15.88″	103°05′53.79″	3581.27
EM-2	597849.72	921532.48	32°38′14.86″	103°05′53.77″	3581.58
EM-3	598024.36	921313.69	32°38′16.62″	103°05′56.30″	3582.37

Three Surveys were conducted by Basin Surveys during the 2019 period with the description stating that there were no changes in elevations also there was a survey that was conducted in January 2020.

Depicted below are the 2019 reports of the surveys for your review with the survey done in January 2020. Please find the plats of the Surveys at the end of this report for your viewing.

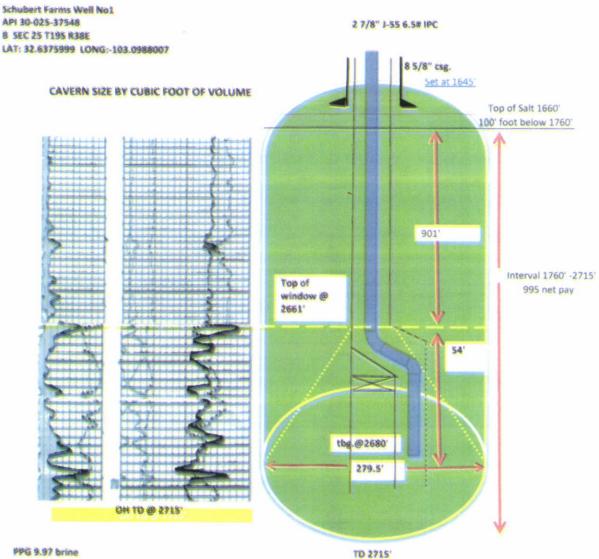
REVISION #	DATE	DESCRIPTION
6	January 15, 2019	Resurvey-No Change in Elevations
7	May 7, 2019	Resurvey-No Change in Elevations
8	October 14, 2019	Resurvey-No Change in Elevations
9	January 31, 2020	Resurvey-No Change in Elevations

CAVERN CHARACTERIZATION DATA RESULTS.

Please refer to page 20 and page 21 for data results.

On Page 25; please find the characterization of the Schubert Farms Well No. 1 (BW-36)

We have attached a copy for your viewing at the end of this yearly report.



PPG 8.34 fresh SG 1.1951

> 2017 thru Dec. 2019 Total Brine bbl. 723,600 122.136 LBS / BBL = 88,377,610 LBS HALITE (88,377,610 LBS) / (808LS per ft³) = 1,104,720 ft³

Est. hight is 54'
Est. cavern floor diameter is 279.5'
Cavern Ratio 279.5' / 955 = 0.29 Factor



HRC, INC.

P. O. Box 5102 Hobbs, NM 88241-5102 Phone # (575) 393-6662 Fax # (575) 393-6662

January 17, 2019

Jim Griswold Senior Hydrologist **ENMRD/Oil Conservation Division** 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Ref: 2018 Annual Report

Schubert Farms No. 1 (API # 30-025-37548) (BW-34)

Dear Mr. Griswold,

Enclosed please find the monthly freshwater injection and brine production numbers for the Hobbs facility for the year of 2018. Included also are Cardinal Laboratories' results of analyses for samples for the month of December 2017 and the production amounts for December 2017 and the 2017 production totals for your reference.

Thank you,

Sincerely,

Gary M. Schubert

GMS/br

Schubert Farms Well No. 1

Year 2018

MONTH	BRINE PRODUCTION (BY Meter)	FRESH WATER INJECTED (By Meter)	
January	25,912	25,360	
February	21,338	21,124	
March	26,609	26,407	
April	20,459	20,102	
May	18,030	17,831	
June	24,897	24,719	
July	23,761	23,557	
August	23,511	23,319	
September	24,333	24,114	
October	29,826	29,631	
November	31,826	31,614	
December	36,304	36,121	





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

December 18, 2018

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 11/21/18 8:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

Method EPA 552.2

Total Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B

Total Coliform and E. coli (Colilert MMO-MUG)

Method EPA 524.2

Regulated VOCs and Total Trihalomethanes (TTHM)

Method EPA 552.2

Total Haloacetic Acids (HAA-5)

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

Celing & Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Project Number: FARMS #1 WATER SAMPLES

Project Manager: BEN DONAHUE

Fax To:

Reported: 18-Dec-18 11:46

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	
BRINE WATER	H803420-01	Water	21-Nov-18 06:15	21-Nov-18 08:15	
FRESH WATER	H803420-02	Water	21-Nov-18 06:15	21-Nov-18 08:15	
MONITOR WELL	H803420-03	Water	21-Nov-18 06:15	21-Nov-18 08:15	

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 11



ETZ WATER STATION

Project: SCHUBERT

Reported: 18-Dec-18 11:46

PO BOX 6056 HOBBS NM, 88241 Project Number: FARMS #1 WATER SAMPLES

Project Manager: BEN DONAHUE

Fax To:

BRINE WATER

H803420-01 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Note
	,		Cardin	al Laborat	ories					
norganic Compounds	5. A									
Alkalinity, Bicarbonate	478		5.00	mg/L	1	8112610	AC	26-Nov-18	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	8112610	AC	26-Nov-18	310.1	
Chloride*	s 152000		4.00	mg/L	1	8112601	AC	26-Nov-18	4500-CI-B	
Conductivity*	237000		1.00	uS/cm	1	8112118	AC	21-Nov-18	120.1	
pH*	6.87		0.100	pH Units	1	8112118	AC	21-Nov-18	150.1	
Sulfate*	4190		833	mg/L	83.3	8112713	AC	27-Nov-18	375.4	
ΓDS*	254000		5.00	mg/L	1	8112718	AC	28-Nov-18	160.1	
Alkalinity, Total*	392		4.00	my/L	1	8112610	AC	26-Nov-18	310.1	
	2		Green Ana	lytical Lab	oratories					
Total Recoverable Metals by	ICP (E200.7)									
Calcium*	820		50.0	mg/L	500	B812008	AES	05-Dec-18	EPA200.7	
Magnesium*	507		50.0	mg/L	500	B812008	AES	05-Dec-18	EPA200.7	
Potassium*	830		500	mg/L	500	B812008	AES	05-Dec-18	EPA200.7	
Sodium*	94700		500	mg/L	500	B812008	AES	05-Dec-18	EPA200.7	

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Celey D. Keine



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

Project Number: FARMS #1 WATER SAMPLES

Project Manager: BEN DONAHUE

Fax To:

Reported:

18-Dec-18 11:46

FRESH WATER H803420-02 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Inorganic Compounds	4									
Alkalinity, Bicarbonate	327		5.00	mg/L	1	8112610	AC	26-Nov-18	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	8112610	AC	26-Nov-18	310.1	
Chloride*	260		4.00	mg/L	1	8112601	AC	26-Nov-18	4500-CI-B	
Conductivity*	1490		1.00	uS/cm	1	8112118	AC	21-Nov-18	120.1	
pH*	7.53		0.100	pH Units	1	8112118	AC	21-Nov-18	150.1	
Sulfate*	165		50.0	mg/L	5	8112713	AC	27-Nov-18	375.4	
TDS*	702		5.00	mg/L	1	8112718	AC	28-Nov-18	160.1	
Alkalinity, Total*	268		4.00	mg/L	1	8112610	AC	26-Nov-18	310.1	4
	-									
	-		Green Ana	lytical Lab	oratories					
Total Recoverable Metals by	ICP (E200.7)									
Calcium*	110		0.100	mg/L	1	B812008	AES	05-Dec-18	EPA200.7	
Magnesium*	21.6		0.100	mg/L	1	B812008	AES	05-Dec-18	EPA200.7	
Potassium*	14.6		1.00	mg/L	1	B812008	AES	05-Dec-18	EPA200.7	
Sodium*	150		1.00	mg/L	1	B812008	AES	05-Dec-18	EPA200.7	

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

Project Number: FARMS #1 WATER SAMPLES

Project Manager: BEN DONAHUE

Fax To:

Reported:

18-Dec-18 11:46

MONITOR WELL H803420-03 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Pe			Cardin	al Laborate	ories					
Inorganic Compounds	6									
Alkalinity, Bicarbonate	288		5.00	mg/L	1	8112610	AC	26-Nov-18	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	8112610	AC	26-Nov-18	310.1	
Chloride*	320		4.00	mg/L	1	8112601	AC	26-Nov-18	4500-C1-B	
Conductivity*	1800		1.00	uS/cm	1	8112118	AC	21-Nov-18	120.1	
pH*	7.58		0.100	pH Units	1	8112118	AC	21-Nov-18	150.1	
Sulfate*	298		50.0	mg/L	5	8112713	AC	27-Nov-18	375.4	
TDS*	982		5.00	mg/L	1	8112718	AC	28-Nov-18	160.1	
Alkalinity, Total*	236		4.00	mg/L	1	8112610	AC	26-Nov-18	310.1	***
	P									-6-76
	3				1					
47	Ne		Green Ana	lytical Lab	oratories					
Total Recoverable Metals by	ICP (E200.7)									
Calcium*	172		0.100	mg/L	I	B812009	AES	07-Dec-18	EPA200.7	
Magnesium*	× 44.3		0.100	mg/L	1	B812009	AES	07-Dec-18	EPA200.7	* 1
Potassium*	4.95		1.00	mg/L	1	B812009	AES	07-Dec-18	EPA200.7	
Sodium*	124		1.00	mg/L	1	B812009	AES	07-Dec-18	EPA200.7	

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Celez D. Keine



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

Project Number: FARMS #1 WATER SAMPLES

Reported: 18-Dec-18 11:46

Project Manager: BEN DONAHUE

Fax To:

Inorganic Compounds - Quality Control

Cardinal Laboratories

		Caran	iiiii Dalbi	or acorres						
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8112118 - General Prep - Wet Cl	nem									
LCS (8112118-BS1)				Prepared &	Analyzed:	21-Nov-18	3			
Conductivity	100000		uS/cm	100000		100	80-120			
pH a	7.12		pH Units	7.00		102	90-110			
Duplicate (8112118-DUP1)	Sou	rce: H803419	-01	Prepared &	Analyzed:	21-Nov-18	3			
Conductivity	236000	1.00	uS/cm		237000			0.338	20	
Нq	7.07	0.100	pH Units		7.02			0.710	20	
Batch 8112601 - General Prep - Wet Cl	hem									
Blank (8112601-BLK1)				Prepared &	k Analyzed:	26-Nov-18	3			
Chloride	ND	4.00	mg/L							
				D 16		06 N 16				
LCS (8112601-BS1)					z Analyzed:	26-Nov-18				
Chloride	100	4.00	mg/L	100		100	80-120			
LCS Dup (8112601-BSD1)				Prepared &	k Analyzed:	26-Nov-18	3			
Chloride	100	4.00	mg/L	100		100	80-120	0.00	20	Andrew Marrier or Common
Batch 8112610 - General Prep - Wet Cl	hem									
Blank (8112610-BLK1)				Prepared &	k Analyzed:	: 26-Nov-18	3			
Alkalinity, Carbonate	ND	1.00	mg/L							
Alkalinity, Bicarbonate	5.00	5.00	mg/L							
Alkalinity, Total	4.00	4.00	mg/L							
LCS (8112610-BS1)				Prepared &	k Analyzed	26-Nov-18	3			
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			

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Celeg & Keine



ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241

Project: SCHUBERT

Project Number: FARMS #1 WATER SAMPLES

Reported: 18-Dec-18 11:46

Project Manager: BEN DONAHUE

Fax To:

Inorganic Compounds - Quality Control

Cardinal Laboratories

			Reporting		Spike	Source		%REC		RPD	
Analyte		Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 8112610 - General Prep -	Wet Chem										
LCS Dup (8112610-BSD1)	T.				Prepared &	Analyzed:	26-Nov-18				,
Alkalinity, Carbonate	*	ND	2.50	mg/L				80-120		20	
Alkalinity, Bicarbonate		305	12.5	mg/L				80-120	4.02	20	
Alkalinity, Total	-	250	10.0	mg/L	250		100	80-120	3.92	20	
Batch 8112713 - General Prep -	Wet Chem										
Blank (8112713-BLK1)	990				Prepared &	Analyzed:	27-Nov-18	1			
Sulfate	24	ND	10.0	mg/L							
LCS (8112713-BS1)	4				Prepared & Analyzed: 27-Nov-18						
difate	31	23.3	10.0	mg/L	20.0		117	80-120			
LCS Dup (8112713-BSD1)					Prepared &	k Analyzed:	27-Nov-18	3			
Sulfate	4 *	19.6	10.0	mg/L	20.0	AMA AMA	98.0	80-120	17.5	20	
Batch 8112718 - Filtration	*										
Blank (8112718-BLK1)					Prepared:	27-Nov-18	Analyzed: 2	28-Nov-18			
TDS	×	ND	5.00	mg/L							
LCS (8112718-BS1)					Prepared: 2	27-Nov-18	Analyzed: 2	28-Nov-18			
ites	ţ	574		mg/L	672	ment attended manual partiest opposite a	85.4	80-120			
Buplicate (8112718-DUP1)	bAI	Sou	rce: H803420	-01	Prepared:	27-Nov-18	Analyzed: 2	28-Nov-18			
FDS .		265000	5.00	mg/L		254000			3.95	20	

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Celeg D. Keine



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

Project Number: FARMS #1 WATER SAMPLES

Reported: 18-Dec-18 11:46

Project Manager: BEN DONAHUE

Fax To:

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

Green Analytical Laboratories

Analyte		Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Malyte		Result	Limit	Omis	Level	Result	70KEC	Limits	KID	Linux	140103
atch B812008 - Total Rec. 20	0.7/200.8/20	0.2									
Blank (B812008-BLK1)					Prepared: (03-Dec-18 A	Analyzed: 0	5-Dec-18			
odium	7	ND	1.00	mg/L							
alcium	i-	ND	0.100	mg/L							
agnesium	-1	ND	0.100	mg/L							
otassium	34	ND	1.00	mg/L							
CS (B812008-BS1)					Prepared: (03-Dec-18 A	Analyzed: 0	5-Dec-18			
Calcium		3.94	0.100	mg/L	4.00		98.6	85-115			
Sodium	33	3.51	1.00	mg/L	3.24		108	854115			
Magnesium		19.5	0.100	mg/L	20.0		97.5	85-115			
Potassium	3	8.22	1.00	mg/L	8.00		103	85-115			
CS Dup (B812008-BSD1)	± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ±				Prepared: (03-Dec-18 A	Analyzed: 0	5-Dec-18			
Potassium	-	8.08	1.00	mg/L	8.00		101	85-115	1.65	20	
Sodium) .	3.40	1.00	mg/L	3.24		105	85-115	3.01	20	
Calcium	-	3.98	0.100	mg/L	4.00		99.5	85-115	0.907	20	
Jagnesium		19.7	0.100	mg/L	20.0		98.4	85-115	0.965	20	
D-4-1 D012000 T-4-1 D 20	00 7/200 0/20	0.2									
Batch B812009 - Total Rec. 20	JU. //200.8/20	0.2									
Blank (B812009-BLK1)	*				Prepared:	03-Dec-18 A	Analyzed: 0	7-Dec-18		The same of the sa	
Magnesium		ND	0.100	mg/L							
Sódium	i _{pm}	ND	1.00	mg/L							
Potassium	1=	ND	1.00	mg/L							
Calcium		ND	0.100	mg/L							
LCS (B812009-BS1)	1				Prepared:	03-Dec-18	Analyzed: I	1-Dec-18			
Potassium		8.21	1.00	mg/L	8.00		103	85-115			
Magnesium	,	20.7	0.100	mg/L	20.0		104	85-115			
Calcium	146	4.17	0.100	mg/L	4.00		104	85-115			
Sodium	1	3.38	1.00	mg/L	3.24		104	85-115			
12'-											
	1										
D.	-										

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Celey D. Keine

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

Project Number: FARMS #1 WATER SAMPLES

Reported: 18-Dec-18 11:46

Project Manager: BEN DONAHUE

Fax To:

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

Green Analytical Laboratories

Änalyte	1	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B812009 - Total Rec. 200.7	//200.8/200.	2									
ECS Dup (B812009-BSD1)	1				Prepared: 0	3-Dec-18 A	nalyzed: 1	1-Dec-18			
Potassium	- 14	8.16	1.00	mg/L	8.00		102	85-115	0.686	20	
alcium	4	4.19	0.100	mg/L	4.00		105	85-115	0.480	20	
Sodium	1	3.34	1.00	mg/L	3.24		103	85-115	1.13	20	
Magnesium	ill s	20.8	0.100	mg/L	20.0		104	85-115	0.586	20	

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference
Samples not received at prope

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

Insufficient time to reach temperature.

Chloride by SM4500Cl- $\frac{B}{4}$ 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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*=Accredited Analyte

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Celley D. Kring

Celey D. Keene, Lab Director/Quality Manager

Page 10 of 11



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

ompany Name	Company Name: ETS Cooker Status	-						٩	BILLTO	9	1000			ANALYSIS	YSIS	REQUEST	EST			
roject Manage	Project Manager: Ben Denahung						P.O. #:	4												
ddress: P.O.	Address: P.O. By 5162						Omo	Company:										_		
Sity: Hobbss	State: NVM		Zip: 8824	3	-		Attn:									-				
hone #: 375	Phone #: 375 343 3194 Fax #:						Address:	SS:										_		
roject #:	Project Owner: Caco	mer: Gaz		K	Shusher		City:					U								
roject Name:	Project Name: Strubed Forms 41	Work	An	8	Samples		State:		Zip:			O								
roject Location	Project Location: Schubbea Forms 641	Bing well	3	12	_		Phone #:	#				n								
Sampler Name:	Ben Donahue						Fax #:				V	4								
FOR LAB LISE ONLY			-		MATRIX	×	PR	PRESERV.		SAMPLING	1					_				
Lab I.D.	Sample I.D.	G)RAB OR (C)OMP.	3ROUNDWATER	MASTEWATER	OIF SOIF	ernbee	OTHER:	CE / COOF	отнек:	DATE		Cation								
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uptions, loss of use, or loss of profits incurred by client, its subsidiaries arvice. In no event shall Cardinal be fiable for incidental

affiliates or successors arising out of or related to the Refinquished By:

Sample Condition Sample Condition Cool Intact Sample - UPS - Bus - Other: 0.32 #97 | Prest Pres Delivered By: (Circle One) Relinquished By:

verhal channes Disable valvaintes a channel warratt and group discharge



June 04, 2018

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 05/18/18 15:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.htm.

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)

Celey Theene

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B Tot Method EPA 524.2 Reg

Total Coliform and E. coli (Colilert MMO-MUG)
Regulated VOCs and Total Trihalomethanes (TTHM)

Method EPA 552.2

Total Haloacetic Acids (HAA-5)

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

J-ARN (0-4-18)

Page 1 of 11



ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241

Project: SCHUBERT

Reported: 04-Jun-18 12:06

Project Number: FARMS #1 WATER SAMPLES- BRIN

Project Manager: BEN DONAHUE

Fax To:

FRESH WATER H801390-01 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	ial Laborat	ories					
Inorganic Compounds										
Alkalinity, Bicarbonate	229		5.00	mg/L	1	8050906	AC	21-May-18	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	8050906	AC	21-May-18	310.1	
Chloride*	124		4.00	mg/L	1	8051614	AC	21-May-18	4500-Cl-B	
Conductivity*	1020		1.00	uS/cm	1	8052104	AC	21-May-18	120.1	
pH*	7.87		0.100	pH Units	1	8052104	AC	21-May-18	150.1	
Sulfate*	206		50.0	mg/L	5	8052201	AC	22-May-18	375.4	
TDS*	656		5.00	mg/L	1	8052105	AC	23-May-18	160.1	
Alkalinity, Total*	188		4.00	mg/L	1	8050906	AC	21-May-18	310.1	
			Green Ana	lytical Lab	oratories					
Total Recoverable Metals by	ICP (E200.7)									
Calcium*	85.3		1.00	mg/L	10	B805178	JDA	29-May-18	EPA200.7	
Magnesium*	24.7		1.00	mg/L	10	B805178	JDA	29-May-18	EPA200.7	
Potassium*	<10.0		10.0	mg/L	10	B805178	JDA	29-May-18	EPA200.7	
Sodium*	92.3		10.0	mg/L	10	B805178	JDA	29-May-18	EPA200.7	

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Celegate trans-



ETZ WATER STATION

Project: SCHUBERT

Reported:

PO BOX 6056 HOBBS NM, 88241 Project Number: FARMS #1 WATER SAMPLES- BRIN

04-Jun-18 12:06

Project Manager: BEN DONAHUE

Fax To:

BRINE WATER H801390-02 (Water)

				-						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	ial Laborat	ories					
Inorganic Compounds										
Alkalinity, Bicarbonate	256		5.00	mg/L	1	8050906	AC	21-May-18	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	8050906	AC	21-May-18	310.1	
Chloride*	166000		4.00	mg/L	1	8051614	AC	21-May-18	4500-CI-B	
Conductivity*	236000		1.00	uS/cm	1	8052104	AC	21-May-18	120.1	
pH*	6.95		0.100	pH Units	1	8052104	AC	21-May-18	150.1	
Sulfate*	4490		833	mg/L	83.33	8052201	AC	22-May-18	375.4	
TDS*	263000		5.00	mg/L	1	8052105	AC	23-May-18	160.1	
Alkalinity, Total*	210		4.00	mg/L	1	8050906	AC	21-May-18	310.1	
			Green Ana	lytical Lab	oratories					
Total Recoverable Metals by I	CP (E200.7)									
Calcium*	814		50.0	mg/L	500	B805178	JDA	29-May-18	ETAZ00.7	
Magnesium*	401		50.0	mg/L	500	B805178	JDA	29-May-18	EPA200.7	
Potassinm*	667		500	mg/L	500	B805178	JDA	29-May-18	EPA200.7	
Sodium*	98200		500	mg/L	500	B805178	JDA	29-May-18	EPA200.7	

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ETZ WATER STATION

PO BOX 6056 HOBBS NM, 88241 Project: SCHUBERT

SCHUBERT

Reported: 04-Jun-18 12:06

Project Number: FARMS #1 WATER SAMPLES- BRIN

Project Manager: BEN DONAHUE

Fax To:

MONITOR WELL H801390-03 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes :
			Cardin	al Laborat	ories					
Inorganic Compounds										
Alkalinity, Bicarbonate	249		5.00	mg/L	1	8050906	AC	21-May-18	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	8050906	AC	21-May-18	310.1	
Chloride*	328		4.00	mg/L	1	8052107	AC	21-May-18	4500-CI-B	
Conductivity*	1860		1.00	uS/cm	i	8052104	AC	21-May-18	120.1	
pH*	7.56		0.100	pH Units	1	8052104	AC	21-May-18	150.1	
Sulfate*	273		50.0	mg/L	5	8052201	AC	22-May-18	375.4	
TDS*	1170		5.00	mg/L	1	8052105	AC	23-May-18	160.1	
Alkalinity, Total*	204		4.00	mg/L	1	8050906	AC	21-May-18	310.1	
			Green Ana	lytical Labo	oratories					
Total Recoverable Metals by	ICP (E200.7)									
Calcium*	176		1.00	mg/L	10	B805178	JDA	29-May-18	EPA200.7	
Magnesium*	46.5		1.00	mg/L	10	B805178	JDA	29-May-18	EPA200.7	
Potassium*	<10.0		10.0	mg/L	10	B805178	JDA	29-May-18	EPA200.7	
Sodium*	127		10.0	mg/L	10	B805178	JDA	29-May-18	EPA200.7	

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ETZ WATER STATION

PO BOX 6056 HOBBS NM, 88241 Project: SCHUBERT

SCHUBERT

Project Number: FARMS #1 WATER SAMPLES- BRIN

Project Manager: BEN DONAHUE

Fax To:

Reported: 04-Jun-18 12:06

Inorganic Compounds - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 8050906 - General Prep - Wet Chem										
Blank (8050906-BLK1)				Prepared &	Analyzed:	09-May-18	3			
Alkalinity, Carbonate	ND	1.00	mg/L							
Alkalinity, Bicarbonate	5.00	5.00	ing/L							
Alkalinity, Total	4.00	4.00	mg/L							
LCS (8050906-BS1)				Prepared &	Analyzed:	09-May-18	3			
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 (8050906-BSD1)				Prepared &	Analyzed:	09-May-18	3			
Alkalinity, Carbonate	ND	2.50	mg/L				80-120		20	
Alkalinity, Bicarbonate	365	12.5	mg/L				80-120	13.9	20	
Alkalinity, Total	300	10.0	mg/L	250		120	80-120	14.3	20	
Batch 8051614 - General Prep - Wet Chem										
Blank (8051614-BLK1)				Prepared &	: Analyzed:	16-May-18	3			
Chloride	ND	4.00	mg/L		, , , , , , , , , , , , , , , , , , , ,					
LCS (8051614-BS1)				Prepared &	Analyzed:	16-May-18	3			
Chloride	100	4.00	mg/L	100		100	80-120			
LCS Dup (8051614-BSD1)				Prepared &	Analyzed:	16-May-18	3			
Chloride	104	4.00	mg/L	100		104	80-120	3.92	20	
Batch 8052104 - General Prep - Wet Chem										
LCS (8052104-BS1)				Prepared &	Analyzed:	21-May-18	3			
Conductivity	501		uS/cm	500		100	80-120			
Hq	7.20		pH Units	7.00		103	90-110			

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ETZ WATER STATION

PO BOX 6056 HOBBS NM, 88241 Project: SCHUBERT

Project Number: FARMS #1 WATER SAMPLES- BRIN

Project Manager: BEN DONAHUE

Fax To:

Reported: 04-Jun-18 12:06

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8052104 - General Prep - Wet Chem										
Duplicate (8052104-DUP1)	Soui	се: Н801389	-01	Prepared &	Analyzed:	21-May-18	3			
Conductivity	1020	1.00	uS/cm		1020			0.0984	20	
pH	7.54	0.100	pH Units		7.53			0.133	20	
Batch 8052105 - Filtration										
Blank (8052105-BLK1)				Prepared: 2	21-May-18	Analyzed: 2	23-May-18			
TDS	NĐ	5.00	mg/L							
LCS (8052105-BS1)				Prepared: 2	21-May-18	Analyzed: 2	23-May-18			
TDS	518	5.00	mg/L	527		98.3	80-120			
Duplicate (8052105-DUP1)	Sour	ce: H801385	-01	Prepared: 2	21-May-18	Analyzed: 2	23-May-18			
TDS	996	5.00	mg/L	, , , , , , , , , , , , , , , , , , , ,	1000			0.800	20	
Batch 8052107 - General Prep - Wet Chem										
Blank (8052107-BLK1)				Prepared &	Analyzed:	21-May-18	3			
Chloride	ND	4.00	mg/L							
LCS (8052107-BS1)				Prepared &	Analyzed:	21-May-18	3			
Chloride	100	4.00	mg/L	100		100	80-120		2 2 1 2 1 2	
LCS Dup (8052107-BSD1)				Prepared &	z Analyzed:	21-May-18	3			
Chloride	104	4.00	mg/L	100		104	80-120	3.92	20	

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Carey to trains -



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

Analytical Results For:

ETZ WATER STATION

PO BOX 6056 HOBBS NM, 88241 Project: SCHUBERT

SCHUBERI

Project Number: FARMS #1 WATER SAMPLES- BRIN

Reported: 04-Jun-18 12:06

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 8052201 - General Prep - Wet Chem										
Blank (8052201-BLK1)				Prepared &	Analyzed:	22-May-18	3			
Sulfate	ND	10.0	mg/L	// /						
LCS (8052201-BS1)				Prepared &	Analyzed:	22-May-18	3			
Sulfate	19.6	10.0	mg/L	20.0		98.2	80-120			
LCS Dup (8052201-BSD1)				Prepared &	Analyzed:	22-May-18	3			
Sulfate	20.8	10.0	mg/L	20.0		104	80-120	5.88	20	

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Carry trains -

Celey D. Keene, Lab Director/ Quality Manager

%REC

Reported:

04-Jun-18 12:06

RPD



Analytical Results For:

ETZ WATER STATION

PO BOX 6056 HOBBS NM, 88241

Magnesium

Project: SCHUBERT

Project Number: FARMS #1 WATER SAMPLES- BRIN

Spike

Source

Project Manager: BEN DONAHUE

Fax To:

Reporting

0.100

mg/L

20.0

103

85-115

1.60

20

20.6

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

Green Analytical Laboratories

1		11-F		_,						
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B805178 - Total Rec. 200.7/20	0.8/200.2									
Blank (B805178-BLK1)				Prepared: 2	24-May-18	Analyzed: 2	29-May-18			
Potassium	ND	1.00	mg/L							
Magnesium	ND	0.100	mg/L							
Calcium	ND	0.100	mg/L							
Sodium	ND	1.00	mg/L							
LCS (B805178-BS1)				Prepared: 2	24-May-18	Analyzed: 2	29-May-18			
Magnesium	20.2	0.100	mg/L	20.0		101	85-115			
Potassium	8.17	1.00	mg/L	8.00		102	85-115			
Calcium	4.00	0.100	mg/L	4.00		100	85-115			
Sodium	3.21	1.00	mg/L	3.24		99.2	85-115			
LCS Dup (B805178-BSD1)				Prepared: 2	24-May-18	Analyzed: 2	29-May-18			
Calcium	4.07	0.100	mg/L	4.00		102	85-115	1.63	20	
Potassium	8.34	1.00	mg/L	8.00		104	85-115	2.03	20	
Sodium	3.26	1.00	mg/L	3.24		101	85-115	1.43	20	

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Celling Intreme -

Celey D. Keene, Lab Director/Quality Manager



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

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Calley Tistians -



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Nami	Company Name: FTZ Water Station	-	9	BILL TO	ANALYSIS REQUEST
Project Manager: Buch	11: Ben Donohue		P.O. #:		
Address: PO.	2. Box 5/02		Company:		
City: Hobbs	State: NM	Zp: 8824	Attn:	and the second s	
Phone #: 575 373 3,94	393 3/04 Fax#:		Address:	se	
Project #:	Project Owner:	er:	City:		
Project Name:	Project Name: Schulzed Forms 41 Worker Schoole	2 Samples	State:	Zip:	
Project Locatio	Project Location: Shubself Forms # 1 B	Brice Well	Phone #:		
Sampler Name:	Sampler Name: Pen De name		Fax #:	/	
FOR LAB USE ONLY		MATRIX	PRESERV	V. SAMPLING	
Lab I.D.	Sample I.D.	G)RAB OR (C)OMP GCOUTAINERS GROUNDWATER MASTEWATER SOIL JIC	CE / COOL	DATE TIME	
Jun 1	Fresh Uzeter		2	8	
-1	Brine Water		>		
140	Monitor Well	\ - -1		5/16/18 10:45a L	
PLEASE NOTE: Liability analyses. All claims inclus service. In no evert shell	PLEASE NOTE: Librilly and Demages. Cardinal's liability and clients enclosive remady for any claim anishing whether based in contract and it included to the amount paid by the ident for the applicable analyses. All claims including those for negligence and any other cases whethere whethere welved in whiting and reselved by Cardinal Within 30 days after completion of the applicable assisted. In one work staff Cardinal be librilly in underliable or consequented integers includingly, believes the integers of the cardinal assistance of a subsidiarity of the applicable and the above or the action of the applicable and	for any claim anising whether based in con- be deemed waved unless made in writing ding without limitation, business interruptor to Cardinal constitues of whether such and	and or tort, shall be firm and received by Cardini na, tons of use, or loss o	ather based in contrast or tort, shall be limited to the amount paid by the client for the rest made in writing and received by Cardinal within 30 days after completion of the applicable unities interruption. It may be use, of bee of potter incurred by befall the landstellers, divisiting and cardinal potters are not of the above contrast of the above or stated resource or stated to the contrast of the stated ones are of the above catalog resource or stated to the contrast of the contrast of the stated ones are of the above catalog resource or stated to the contrast of the contrast of the stated ones.	
Relinquished By	VI Date: 18-1	& Received By:	Jelly.	Phone Result: Fax Result: REMARKS:	☐ Yes ☐ No Add'l Phone#:
Relinquished By:	Date:	Received By:	The state of the s	Envir (1234175 to	pary modulated Ogman 1-com
		The second secon		7	

+ Caminal rannot arrant varhal rhances Diages for written rhances to 15751 199,0106

CHECKED BY: (Initials)

Cool Infact

Delivered By: (Circle One) Sampler - UPS - Bus - Other:

Schubert Farms Well No. 1

Year 2017

MONTH

BRINE PRODUCTION (BY Meter) FRESH WATER INJECTED (By Meter)

January
February
March
April
May
June
July
August
September
October
November
December

24,921

24,360



December 05, 2017

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 11/16/17 10:22.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-9. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab-accred-certif.html.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B Total Coliform and E. coli (Colilert MMO-MUG)

Method EPA 524.2 Regulated VOCs and Total Trihalomethanes (TTHM)

Method EPA 552.2 Total Haloacetic Acids (HAA-5)

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





ETZ WATER STATION

Project: SCHUBERT

Reported:

PO BOX 6056

Project Number: FARMS #1

05-Dec-17 14:36

HOBBS NM, 88241

Project Manager: BEN DONAHUE

Fax To:

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BRINE WATER	H703207-01	Water	16-Nov-17 09:00	16-Nov-17 10:22
MONITOR WELL	H703207-02	Water	16-Nov-17 09:00	16-Nov-17 10:22
FRESH WATER	H703207-03	Water	16-Nov-17 09:00	16-Nov-17 10:22

*=Accredited Analyte Cardinal Laboratories

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Celay There-



ETZ WATER STATION PO BOX 6056

Project: SCHUBERT

Project Number: FARMS #1

Reported: 05-Dec-17 14:36

HOBBS NM, 88241

Project Manager: BEN DONAHUE

Fax To:

BRINE WATER H703207-01 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Inorganic Compounds										
Alkalinity, Bicarbonate	476		5.00	mg/L	1	7110705	AC	17-Nov-17	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	7110705	AC	17-Nov-17	310.1	
Chloride*	162000		4.00	mg/L	1	7112001	AC	20-Nov-17	4500-Cl-B	
Conductivity*	475000		1.00	uS/cm	1	7111701	AC	17-Nov-17	120.1	
pH*	6.96		0.100	pH Units	i	7 111701	AC	16-Nov-17	150,1	
Sulfate*	6580		833	mg/L	83.3	7112201	AC	22-Nov-17	375.4	
TDS*	266000		5.00	mg/L	1	7111608	AC	17-Nov-17	160.1	
Alkalinity, Total*	390		4.00	mg/L	1	7110705	AC	17-Nov-17	310.1	
			Green Ana	lytical Labo	oratories					
Total Recoverable Metals by	ICP (E200.7)									
Calcium*	844		1.00	mg/L	10	B711206	JDA	29-Nov-17	EPA200.7	
Magnesium*	455		1.00	mg/L	10	B711206	JDA	29-Nov-17	EPA200.7	
Potassium*	1420		10.0	mg/L	10	B711206	JDA	29-Nov-17	EPA200.7	
Sodium*	91100		200	mg/L	200	B711206	JDA	29-Nov-17	EPA200.7	

*=Accredited Analyte Cardinal Laboratories

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Celley Takiena -



ETZ WATER STATION PO BOX 6056

HOBBS NM, 88241

Project: SCHUBERT

BERT

Project Number: FARMS #1
Project Manager: BEN DONAHUE

Fax To:

Reported:

05-Dec-17 14:36

MONITOR WELL

H703207-02 (Water)

			22.00							
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	ial Laborat	ories					
Inorganic Compounds										
Alkalinity, Bicarbonate	327		5.00	mg/L	1	7110705	AC	17-Nov-17	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	I	7110705	AC	17-Nov-17	310.1	
Chloride*	356		4.00	mg/L	1	7112001	AC	20-Nov-17	4500-CI-B	
Conductivity*	1790		1.00	uS/cm	ł	7111701	AC	17-Nov-17	120.1	
pH*	7.60		0.100	pH Units	1	7111701	AC	16-Nov-17	150.1	
Sulfate*	264		50.0	mg/L	5	7112201	AC	22-Nov-17	375.4	
TDS*	1180		5.00	mg/L	1	7111608	ΛC	17-Nov-17	160.1	
Alkalinity, Total*	268		4.00	mg/L	1	7110705	AC	17-Nov-17	310,1	
			Green Ana	lytical Lab	oratories					
Total Recoverable Metals by	ICP (E200.7)									
Calcium*	171		1.00	mg/L	10	B711206	JDA	29-Nov-17	EPA200.7	
Magnesium*	45.3		1.00	mg/L	10	B711206	JDA	29-Nov-17	EPA200.7	
Potassium*	<10.0		10.0	mg/L	10	B711206	JDA	29-Nov-17	EPA200.7	
Sodium*	125		10.0	$\Gamma_{\rm gra}$	10	B711206	JDA	29-Nov-17	EPA200,7	

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Celly T. Kiene-



ETZ WATER STATION

PO BOX 6056 HOBBS NM, 88241 Project: SCHUBERT

Project Number: FARMS #1
Project Manager: BEN DONAHUE

Fax To:

Reported:

05-Dec-17 14:36

FRESH WATER

H703207-03 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	ial Laborat	ories					
Inorganic Compounds										
Alkalinity, Bicarbonate	283		5.00	mg/L	1	7110705	AC	17-Nov-17	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	7110705	AC	17-Nov-17	310.1	
Chloride*	224		4.00	mg/L	1	7112001	AC	20-Nov-17	4500-CI-B	
Conductivity*	1420		1.00	uS/cm	1	7111701	AC	17-Nov-17	120.1	
pH*	7.98		0.100	pH Units	1	7111701	AC	16-Nov-17	150.1	
Sulfate*	195		25.0	mg/L	2.5	7112201	AC	22-Nov-17	375.4	
TDS*	896		5.00	mg/L	1	7111608	AC	17-Nov-17	160.1	
Alkalinity, Total*	232		4.00	mg/L	1	7110705	AC	17-Nov-17	310.1	
			Green Ana	lytical Lab	oratories					
Total Recoverable Metals by	ICP (E200.7)									·
Calcium*	119		5.00	mg/L	50	B711172	JDA	22-Nov-17	EPA200.7	
Magnesium*	25.6		5.00	mg/L	50	B711172	JDA	22-Nov-17	EPA200.7	
Potassium*	<50.0		50.0	mg/L	50	B711172	JDA	22-Nov-17	EPA200.7	
Sodium*	130		50.0	mg/L	50	B711172	JDA	22-Nov-17	EPA200.7	

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College Theme -



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

Project Manager: BEN DONAHUE

Fax To:

Reported:

05-Dec-17 14:36

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7110705 - General Prep - Wet Chem										
Blank (7110705-BLK1)				Prepared &	Analyzed:	07-Nov-17	7			
Alkalinity, Carbonate	ND	1.00	mg/L							
Alkalinity, Bicarbonate	5.00	5.00	mg/L							
Alkalinity, Total	4.00	4.00	mg/I .							
LCS (7110705-BS1)				Prepared &	Analyzed:	07-Nov-17	7			
Alkalinity, Carbonate	ND	2.50	mg/L		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		80-120			
Alkalinity, Bicarbonate	330	12.5	mg/L				80-120			
Alkalinity, Total	270	10.0	mg/L	250		108	80-120			
LCS Dup (7110705-BSD1)				Prepared &	Analyzed:	07-Nov-17	7			
Alkalinity, Carbonate	ND	2.50	mg/L				80-120		20	
Alkalinity, Bicarbonate	355	12.5	mg/L				80-120	7.30	20	
Alkalinity, Total	290	10.0	mg/L	250		116	80-120	7,14	20	
Batch 7111608 - Filtration										
Blank (7111608-BLK1) -				Prepared: 1	6-Nov-17	Analyzed: 1	7-Nov-17			
TDS	ND	5.00	mg/L							
LCS (7111608-BS1)				Prepared: 1	6-Nov-17	Analyzed: 1	7-Nov-17			
TDS	228	5.00	mg/L	213		107	80-120			
Duplicate (7111608-DUP1)	Sou	rce: H703199	-01	Prepared: 1	6-Nov-17	Analyzed: 1	7-Nov-17			
TDS	9630	5.00	mg/L		9890			2.64	20	
Batch 7111701 - General Prep - Wet Chem										
LCS (7111701-BS1)				Prepared: 1	6-Nov-17	Analyzed: 1	7-Nov-17			
Conductivity	507		uS/cm	500		101	80-120			
pH	6.97		pH Units	7.00		99.6	90-110			

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Ceregi Kiene -





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

Project Manager: BEN DONAHUE

Fax To:

Reported:

05-Dec-17 14:36

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7111701 - General Prep - Wet Chem										
Duplicate (7111701-DUP1)	Sou	rce: H703206-	10	Prepared: 1	16-Nov-17 A	\nalyzed: 1'	7-Nov-17			
Conductivity	501000	1.00	uS/cm		494000			1.46	20	
pH	7.07	0.100	pH Units		7.06			0.142	20	
Batch 7112001 - General Prep - Wet Chem										
Blank (7112001-BLK1)				Prepared &	k Analyzed:	20-Nov-17	-			
Chloride	ND	4.00	mg/L							
LCS (7112001-BS1)				Prepared &	2 Analyzed:	20-Nov-17				
Chloride	100	4.00	mg/L	100		100	80-120			
LCS Dup (7112001-BSD1)				Prepared &	ż Analyzed:	20-Nov-17				
Chloride	100	4.00	mg/L	100	and the transmitter	100	80-120	0.00	20	
Batch 7112201 - General Prep - Wet Chem										
Blank (7112201-BLK1)				Prepared &	k Analyzed:	22-Nov-17				
Sulfate	ND	10.0	mg/L							
LCS (7112201-BS1)				Prepared &	& Analyzed:	22-Nov-17				
Sulfate	23.2	10.0	mg/L	20.0		116	80-120			
LCS Dup (7112201-BSD1)				Prepared &	k Analyzed:	22-Nov-17				
Sulfate	23.6	10.0	mg/L	20.0		118	80-120	1.79	20	

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Celegit time -



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

Project Manager: BEN DONAHUE

Fax To:

Reported: 05-Dec-17 14:36

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

Green Analytical Laboratories

		Reporting		Spike	Source		%REC		KPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Satch B711172 - Total Rec. 200.7/200.8/200.2										
Blank (B711172-BLK1)				Prepared: 2	20-Nov-17 /	Analyzed: 2	2-Nov-17			
Sodium	ND	1.00	mg/L						W	
Magnesium	ND	0.100	mg/L							
Calcium	ND	0.100	mg/L							
otassium	ND	1.00	mg/L							
.CS (B711172-BS1)				Prepared 2	20-Nov-17	Analyzed, 2	2-Nov-17			
Magnesium	20.8	0.100	mg/L	20.0		104	85-115			
Calcium	4.23	0.100	mg.L	4.00		106	85-115			
odium	6.68	1.00	mg/L	6.48		103	85-115			
otassium	8.07	1.00	mg1	8.00		101	85-115			
CS Dup (B711172-BSD1)				Prepared 2	20-Nov-17	Analyzed: 2	2-Nov-17			
fagnesium	20.8	0.100	mg/L	20.0		104	85-115	0.0742	20	
otassium	8.22	1.00	mg/L	8.00		103	85-115	1,77	20	
alcium	4.24	0.100	mg/L	4.00		106	85-115	0.215	20	
odium	6.66	1.00	mg/L	6.48		103	85-115	0.224	20	
Batch B711206 - Total Rec. 200.7/200.8/200.2										
Blank (B711206-BLK1)				Prepared: 2	27-Nov-17 A	Analyzed: 2	9-Nov-17			
alcium	ND	0.100	mg L							
odium	ND	1.00	mg/L							
lagnesium	ND	0.100	mg T.							
otassium	ND	1.00	mg/L							
CS (B711206-BS1)				Prepared 2	27-Nov-17	Analyzed: 2	9-Nov-17			
Magnesium	20.7	0.100	mg/L	20.0		104	85-115			
otassium	8.35	1.00	mg/L	8.00		104	85-115			
Calcium	4.15	0.100	mg/L	4.00		104	85-115			
odium	6.64	1.00	mg/L	6.48		102	85-115			

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Celegi treme

Celey D. Keene, Lab Director/Quality Manager





ETZ WATER STATION PO BOX 6056

Project: SCHUBERT

Reported: 05-Dec-17 14:36

HOBBS NM, 88241

Project Number: FARMS #1

Project Manager: BEN DONAHUE

Fax To:

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

Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B711206 - Total Rec. 200.7/200.8/200.2										
LCS Dup (B711206-BSD1)				Prepared: 2	27-Nov-17	\nalyzed: 2	9-Nov-17			
Potassium	8.07	1.00	mg/L	8.00		101	85-115	3.36	20	
Magnesium	20 0	0.100	mg/L	20.0		100	85-115	3.34	20	
Sodium	6.43	1,00	mg/L	6.48		99.2	85-115	3.28	20	
Calcium	3.99	0.100	mg/L	4.00		99.7	85-115	4.11	20	

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Celegate treens -

Celey D. Keene, Lab Director/Quality Manager



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 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

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Celleg T. Kiene -



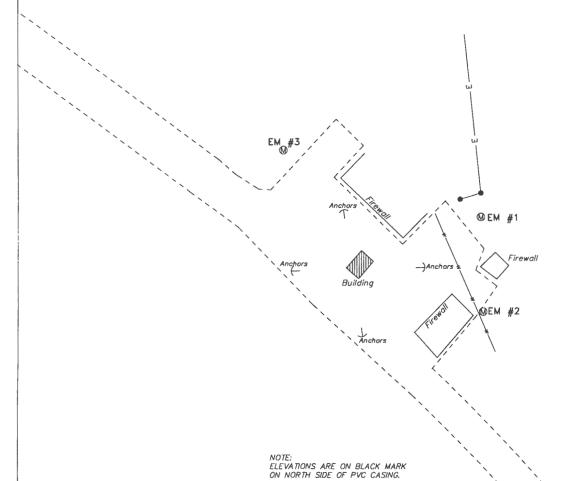
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

88240	2476	
Z	393-	ŀ
1, Hobbs, NM 88240	FAX (575) 393-2476	
101 East Marland,	326 FA	
East M.	575) 393-2326	
101	(575)	

Company Name: CTA Note Store	(BILL TO	ANALYSIS REQUEST
Project Manager: Ben Donahue		P.O. #:	
Address:		Company:	
City: State:	Zip:	Attn:	
Phone #: 575 3A3 3A4 Fax #:	1	Address:	5
Project #: Project Owner:	vner:	City:	· · · · · · · · · · · · · · · · · · ·
Project Name: Schutzed Farms &		State: Zip:	mu
Project Location:		Phone #:	7
Sampler Name: Ben Dunche		Fax #:	1/
	MATRIX	PRESERV. SAMPLING	
Lab I.D. Sample I.D. Sample I.D. Sample I.D. Shine Water Country of Count	POLL CONTRINERS CONTRINERS CONTRINERS SOIL SOIL OIL CONTRINERS SOIL SOIL OIL CONTRINERS SOIL CONTRINES SOIL CONTRINES SOIL	SCIDGE OTHER OTHER OTHER OTHER ACID/BASE ICE / COOL II/I/I/I SLUDGE ACID/GASE TIME ACID/GASE TOTHER ACID/GASE TOTHER ACID/GASE ACID	ways)

service. In no event shall Cardinal be liable for

Phone Result: Ses No Add'l Phone #:	email to: goymschuber & grail.con			
Date C Received By:	Time: 22 Am Received By: UNG W. Ulland	Time:	6.3 c Cool Intact (Initials)	Contraction No. 1 No. 1: Contraction
Relinquished By	Relinquished By:		Delivered By: (Circle One) Sampler DPS - Bus - Other:	

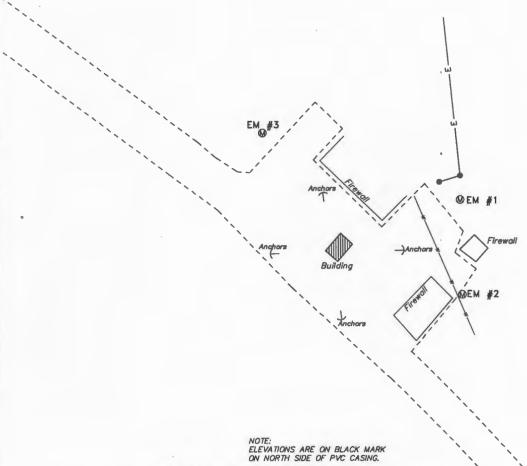


NEW MEXICO STATE PLANE COORDINATES (NAD83)

WELL	NORTHING	EASTING	LATITUDE	LONGITUDE	ELEVA TION
EM-I	597952.32	921529.98	32*38*15.88**	103°05'53.79"	3581.27
EM-2	597849.72	921532.48	32'38'14.86"	103°05'53.77"	3581.58
EM-3	598024.36	921313.69	32'38'16.62"	103°05'56.30"	3582.37

REVISION #	DATE DESCRIPTION	
1	MAY 11, 2017	ORIGINAL SURVEY
2	AUGUST 30, 2017	RESURVEY-NO CHANGE IN ELEVATIONS
3	JANUARY 10, 2018	RESURVEY-NO CHANGE IN ELEVATIONS



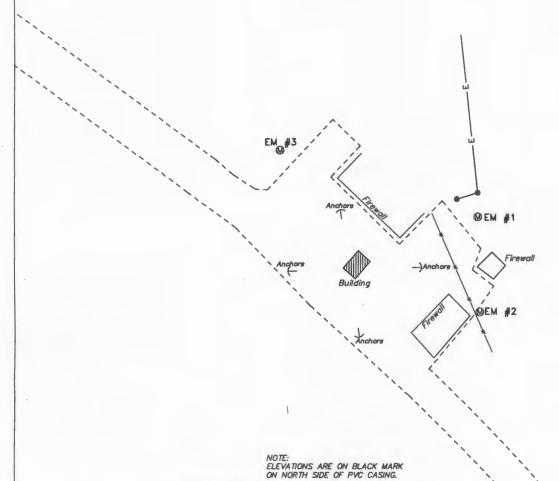


NEW MEXICO STATE PLANE COOPDINATES (MADRE)

		IVE W MEXICO	STATE FLANE COL	KUNVATES (NADOS)	/
WELL	NORTHING	EASTING	LATITUDE	LONGITUDE	ELEVATION
EM-1	597952.32	921529.98	32'38'15.88"	103'05'53.79"	3581.27
EM-2	597849.72	921532.48	32'38'14.86"	103'05'53.77"	3581.58
EM-3	598024.36	921313.69	32'38'16.62"	103°05'56.30"	3582.37

		DESCRIPTION	
		ORIGINAL SURVEY	
2	AUGUST 30, 2017	RESURVEY-NO CHANGE IN FLEVATIONS	
3	JANUARY 10, 2018	RESURVEY-NO CHANGE IN ELEVATIONS	
4	MAY 1, 2018	RESURVEY-NO CHANGE IN ELEVATIONS	



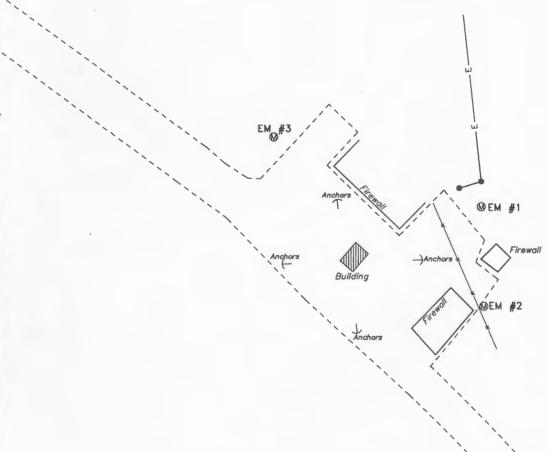


NEW MEXICO STATE PLANE COORDINATES (NAD83)

WELL	NORTHING	EASTING	LATITUDE	LONGITUDE	ELEVATION
EM-1	597952.32	921529.98	32'38'15.88"	103°05'53.79"	3581.27
EM-2	597849.72	921532.48	32'38'14.86"	103°05'53.77"	3581.58
EM-3	598024.36	921313.69	32'38'16.62"	103°05'56.30"	3582.37

REVISION # DATE		DESCRIPTION		
1	MAY 11, 2017	ORIGINAL SURVEY		
2	AUGUST 30, 2017	RESURVEY-NO CHANGE IN ELEVATIONS		
3	JANUARY 10, 2018	RESURVEY-NO CHANGE IN ELEVATIONS		
4	MAY 1, 2018	RESURVEY-NO CHANGE IN ELEVATIONS		
5	SEPTEMBER 5, 2018	RESURVEY-NO CHANGE IN ELEVATIONS		





NOTE: ELEVATIONS ARE ON BLACK MARK ON NORTH SIDE OF PVC CASING.

NEW MEXICO STATE PLANE COORDINATES (NAD83)

		THE THE MICHIGO	STATE TENNE DOG	וואווייייייייייייייייייייייייייייייייי	
WELL	NORTHING	EASTING	LATITUDE	LONGITUDE	ELEVATION
EM-1	597952.32	921529.98	32'38'15.88"	103°05'53.79"	3581.27
EM-2	597849.72	921532.48	32'38'14.86"	103°05'53.77"	3581.58
EM-3	598024.36	921313.69	32'38'16.62"	103°05'56.30"	3582.37

REVISION #	DATE	DESCRIPTION		
1	MAY 11, 2017	ORIGINAL SURVEY		
2	AUGUST 30, 2017	RESURVEY-NO CHANGE IN ELEVATIONS		
3	JANUARY 10, 2018	RESURVEY-NO CHANGE IN ELEVATIONS		
4	MAY 1, 2018	RESURVEY-NO CHANGE IN ELEVATIONS		
5	SEPTEMBER 5, 2018	RESURVEY-NO CHANGE IN ELEVATIONS		
6	JANUARY 15, 2019	RESURVEY-NO CHANGE IN ELEVATIONS		



Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD

Sent: Thursday, January 4, 2018 10:37 AM

'Gary Schubert' To:

Cc: Griswold, Jim, EMNRD

BWs 31 and 36 Annual Reports **Subject:**

Gary:

Good morning. The New Mexico Oil Conservation Division (OCD) has completed its review of the above subject Annual Reports.

Regarding injection and production data, HRC, Inc. also needs to include injection well pressure data or information. Does HRC have an explanation for the relative percent difference in injection vol. (lower vol.) vs. production (higher vol.) exceeding 10%?

Regarding the subsidence well monitoring survey submittal, HRC, Inc. also needs to include information on the elevation transect with close-out elevation for every survey, which demonstrates the accuracy of every survey is required. The table of actual monument elevations per well over time to the nearest 0.01 ft. should definitely be provided. A graph of each monument survey elevation from the table is recommended, but optional, and will assist the operator in providing the data necessary to substantiate request for a reduction in the frequency of surveys in the future.

Regarding the lack of MIT information, HRC, Inc. also needs to provide any MIT information conducted over the year.

Please take some time to review the annual report criteria, and provide a response and/or information requested above to the OCD within 60-days from the date of this message.

Please contact me if you have questions. Thank you.

Mr. Carl J. Chavez, CHMM (#13099) New Mexico Oil Conservation Division Energy Minerals and Natural Resources Department 1220 South St Francis Drive Santa Fe, New Mexico 87505

Ph. (505) 476-3490

E-mail: CarlJ.Chavez@state.nm.us

"Why not prevent pollution, minimize waste to reduce operating costs, reuse or recycle, and move forward with the rest of the Nation?" (To see how, go to: http://www.emnrd.state.nm.us/OCD and see "Publications")

HRC, INC.

P. O. Box 5102 Hobbs, NM 88241-5102 2017 DEC 27 P 3: 10 Fax # (575) 393-6662



December 05, 2017

Jim Griswold Senior Hydrologist **ENMRD/Oil Conservation Division** 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Ref: 2017 Annual Report

Schubert Farms No. 1 (API # 30-025-37548) (BW-36)

Dear Mr. Griswold,

Enclosed please find the monthly freshwater injection and brine production numbers for the Hobbs facility for the year of 2017. Included also are Cardinal Laboratories' results of analyses for samples for the month of April and November, 2017.

Thank you,

Sincerely,

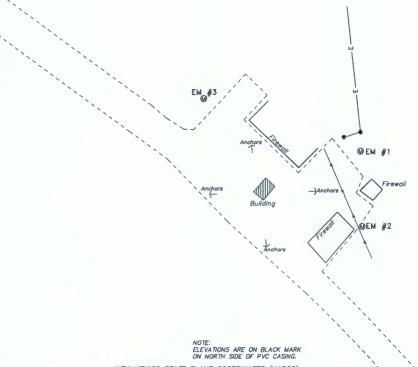
M. Schubert

Schubert Farms Well No. 1

Year 2017

MONTH	BRINE PRODUCTION	FRESH WATER INJECTED	
	(BY Meter)	(By Meter)	
	•		
January	0	0	
February	0	0	
March	13,011	12,833	
April	5,636	5,238	
May	11,060	10,143	
June	9,831	9,902	
July	14,400	14,362	
August	11,962	10,340	
September	20,945	21,183	
October	21.988	20,795	
November	19,764	19,522	
December			





EW MEXICO STATE PLANE COORDINATES (NAD83)

WELL	NORTHING	EASTING	LATITUDE	LONGITUDE	ELEVATION
EM-1	597952.32	921529.98	32'38'15.88"	103'05'53.79"	3581.27
EM-2	597849.72	921532.48	32'38'14.86"	103'05'53.77"	3581.58
EM-3	598024.36	921313.69	32'38'16.62"	103705'56.30"	3582.37

REVISION # DATE		DESCRIPTION	
1	MAY 11, 2017	ORIGINAL SURVEY	
2	AUGUST 30, 2017	RESURVEY-NO CHANGE IN ELEVATIONS	



BASIN SURVEYS P.O. BOX 1786-HOBBS, NEW MEXICO

W.O. Number: 33294 Drawn By: K. GOAD

Date: 09-15-2017 Disk: KJG - SCHUBERT FARMS 33294 Survey Date: 08-30-2017

100 100 200 FEET SCALE: 1" = 100'

H.R.C. INC.

ELEVATION MARKERS

ELEVATION MARKERS LOCATED IN SECTION 25, TOWNSHIP 19 SOUTH, RANGE 38 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO.

Sheets

Sheet



May 04, 2017

BEN DONAHUE

ETZ WATER STATION

PO BOX 6056

HOBBS, NM 88241

RE: SCHUBERT FARMS

Enclosed are the results of analyses for samples received by the laboratory on 04/20/17 12:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

Method EPA 552.2 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)

Celeg & 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



ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241 Project: SCHUBERT FARMS
Project Number: NONE GIVEN
Project Manager: BEN DONAHUE

Reported: 04-May-17 14:52

Fax To:

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FRESH WATER	H701043-01	Water	20-Apr-17 08:00	20-Apr-17 12:00
BRINE WATER	H701043-02	Water	20-Apr-17 08:00	20-Apr-17 12:00
MONITOR WELL	H701043-03	Water	20-Apr-17 08:00	20-Apr-17 12:00

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

Project Number: NONE GIVEN
Project Manager: BEN DONAHUE

Fax To:

Reported: 04-May-17 14:52

FRESH WATER

H701043-01 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Inorganic Compounds										
Alkalinity, Bicarbonate	244		5.00	mg/L	1	7041918	AC	24-Apr-17	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	7041918	AC	24-Apr-17	310.1	
Chloride*	510		4.00	mg/L	1	7042103	AC	25-Apr-17	4500-CI-B	
Conductivity*	2710		1.00	uS/cm	1	7042105	AC	21-Apr-17	120.1	
pH*	7.32		0.100	pH Units	1	7042007	AC	20-Apr-17	150.1	
Sulfate*	579		125	mg/L	12.5	7042613	AC	26-Apr-17	375.4	QM-07
TDS*	1870		5.00	mg/L	1	7042114	AC	25-Арғ-17	160.1	
Alkalinity, Total*	200		4.00	mg/L	ì	7041918	AC	24-Apr-17	310.1	
			Green Ana	lytical Lab	oratories					
Total Recoverable Metals by	ICP (E200.7)									
Calcium*	254		0.100	mg/L	1	B704200	JDA	01-May-17	EPA200.7	
Magnesium*	86.9		0.100	mg/L	1	B704200	JDA	01-May-17	EPA200.7	
Potassium*	7.62		1.00	mg/L	1	B704200	JDA	01-May-17	EPA200.7	
Sodium*	228		1.00	nig/L	1	B704200	JDA	01-May-17	EPA200.7	

Cardinal Laboratories *=Accredited Analyte

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ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241 Project: SCHUBERT FARMS
Project Number: NONE GIVEN

Project Manager: BEN DONAHUE

Fax To:

Reported: 04-May-17 14:52

BRINE WATER H701043-02 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	nal Laborat	ories					. ,
Inorganic Compounds										
Alkalinity, Bicarbonate	268		5.00	mg/L	1	7041918	AC	24-Apr-17	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	7041918	AC	24-Apr-17	310.1	
Chloride*	122000		4.00	mg/L	1	7042103	AC	25-Apr-17	4500-CI-B	
Conductivity*	357000		1.00	uS/cm	1	7042105	AC	21-Apr-17	120.1	
pH*	6.85		0.100	pH Units	1	7042007	AC	20-Apr-17	150.1	
Sulfate*	4430		833	mg/L	83.3	7042613	AC	26-Apr-17	375.4	
TDS*	198000		5.00	mg/L	1	7042114	AC	25-Apr-17	160.1	
Alkalinity, Total*	220		4.00	mg/L	1	7041918	AC	24-Apr-17	310.1	
			Green Ana	lytical Lab	oratories					
Total Recoverable Metals by	1CP (E200.7)									
Calcium*	920		10.0	mg/L	100	B704200	JDA	01-May-17	EPA200.7	
Magnesium*	524		10.0	mg/L	100	B704200	JDA	01-May-17	EPA200.7	
Potassium*	950		100	mg/L	100	B704200	JDA	01-May-17	EPA200.7	
Sodium*	80100		100	mg/L	100	B704200	JDA	01-May-17	EPA200.7	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Kreene



ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241 Project: SCHUBERT FARMS
Project Number: NONE GIVEN

Project Manager: BEN DONAHUE

Fax To:

Reported: 04-May-17 14:52

MONITOR WELL H701043-03 (Water)

				(
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	nal Laborat	ories					
Inorganic Compounds										
Alkalinity, Bicarbonate	244		5.00	mg/L	1	7041918	AC	24-Apr-17	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	I	7041918	AC	24-Apr-17	310.1	
Chloride*	316		4.00	mg/L	1	7042103	AC	25-Apr-17	4500-CI-B	
Conductivity*	1700		1.00	uS/cm	1	7042105	AC	21-Apr-17	120.1	
pH*	7.58		0.100	pH Units	1	7042007	AC	20-Apr-17	150.1	
Sulfate*	221		50.0	mg/L	5	7042613	AC	26-Apr-17	375.4	
TDS*	1090		5.00	mg/L	1	7042114	AC	25-Apr-17	160.1	
Alkalinity, Total*	200		4.00	mg/L	1	7041918	AC	24-Apr-17	310.1	
			Green Ana	alytical Lab	oratories					
Total Recoverable Metals by	ICP (E200.7)									
Calcium*	161		2.00	mg/L	20	B704200	JDA	01-May-17	EPA200.7	
Magnesium*	46.3		2.00	mg/L	20	B704200	JDA	01-May-17	EPA200.7	
Potassium*	<20.0		20.0	mg/L	20	B704200	JDA	01-May-17	EPA200.7	
Sodium*	131		20.0	mg/L	20	B704200	JDA	01-May-17	EPA200.7	

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Celeg Z. Kana



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

Project Number: NONE GIVEN
Project Manager: BEN DONAHUE

Fax To:

Reported: 04-May-17 14:52

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	. Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7041918 - General Prep - Wet Chem										
Blank (7041918-BLK1)				Prepared &	Analyzed:	19-Apr-17				
Alkalinity, Carbonate	ND	1.00	mg/L							
Alkalinity, Bicarbonate	10.0	5.00	mg/L							
Alkalinity, Total	8.00	4.00	mg/L							
LCS (7041918-BS1)				Prepared &	Analyzed:	19-Apr-17				
Alkalinity, Carbonate	ND	1.00	mg/L				80-120			
Alkalinity, Bicarbonate	132	5.00	mg/L				80-120			
Alkalinity, Total	108	4.00	mg/L	100		108	80-120			
LCS Dup (7041918-BSD1)				Prepared &	k Analyzed:	19-Apr-17				
Alkalinity, Carbonate	ND	1.00	mg/L				80-120		20	
Alkalinity, Bicarbonate	127	5.00	mg/L				80-120	3.86	20	
Alkalinity, Total	104	4.00	mg/L	100		104	80-120	3.77	20	
Batch 7042007 - General Prep - Wet Chem										
LCS (7042007-BS1)				Prepared &	2 Analyzed	20-Apr-17				
pH	7.23		pH Units	7.00		103	90-110			
Duplicate (7042007-DUP1)	Sou	rce: H701041	-04	Prepared &	k Analyzed	20-Apr-17				
pH	7.83	0.100	pH Units		7.82			0.128	20	
Batch 7042103 - General Prep - Wet Chem										
Blank (7042103-BLK1)				Prepared &	2 Analyzed	: 21-Apr-17				

Cardinal Laboratories

Chloride

*=Accredited Analyte

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ND

4.00

mg/L

Celey D. Keine



ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241 Project: SCHUBERT FARMS
Project Number: NONE GIVEN

Project Manager: BEN DONAHUE

Fax To:

Reported: 04-May-17 14:52

Inorganic Compounds - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 7042103 - General Prep - Wet Chem							- her			
LCS (7042103-BS1)				Prepared &	Analyzed:	21-Apr-17				
Chloride	104	4.00	mg/L	100		104	80-120			
LCS Dup (7042103-BSD1)				Prepared &	Analyzed:	21-Apr-17				
Chloride	100	4.00	mg/L	100		100	80-120	3.92	20	
Batch 7042105 - General Prep - Wet Chem										
LCS (7042105-BS1)				Prepared &	Analyzed:	21-Apr-17				
Conductivity	498		uS/cm	500		99.6	80-120			
Duplicate (7042105-DUP1)	Sou	rce: H701041-	-01	Prepared &	k Analyzed:	21-Apr-17				
Conductivity	707	1.00	uS/cm		703			0.567	20	
Batch 7042114 - Filtration										
Blank (7042114-BLK1)				Prepared:	21-Apr-17	Analyzed: 2	7-Apr-17			
TDS	ND	5.00	mg/L							
LCS (7042114-BS1)				Prepared:	21-Apr-17 /	Analyzed: 2	7-Apr-17			
TDS	229	5.00	mg/L	240		95.4	80-120			
Duplicate (7042114-DUP1)	Sou	rce: H701021-	-01	Prepared:	21-Apr-17 A	Analyzed: 2	7-Apr-17			
TDS	2260	5.00	mg/L		2310			1.84	20	
Batch 7042613 - General Prep - Wet Chem										
Blank (7042613-BLK1)				Prepared &	& Analyzed:	26-Apr-17				
Sulfate	ND	10.0	mg/L		-					

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Celey D. Kuns



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

Analytical Results For:

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

Project Number: NONE GIVEN

Project Manager: BEN DONAHUE

Fax To:

Reported: 04-May-17 14:52

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7042613 - General Prep - Wet Chem										
LCS (7042613-BS1)				Prepared &	: Analyzed:	26-Apr-17			_	
Sulfate	20.1	10.0	mg/L	20.0		101	80-120			
LCS Dup (7042613-BSD1)				Prepared &	Analyzed:	26-Apr-17				
Sulfate	19.8	10.0	mg/L	20.0		99.0	80-120	1.55	20	

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Celey D. Keene



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

Project Number: NONE GIVEN

Project Manager: BEN DONAHUE

Fax To:

Reported:

04-May-17 14:52

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

Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B704200 - Total Rec. 200.7/20	0.8/200.2									
Blank (B704200-BLK1)				Prepared: 2	28-Apr-17 A	nalyzed: 0	1-May-17			
Sodium	ND	1.00	mg/L							
Magnesium	ND	0.100	mg/L							
Potassium	ND	1.00	mg/L							
Calcium	ND	0.100	mg/L							
LCS (B704200-BS1)				Prepared: 2	28-Арг-17 А	nalyzed: 0	1-May-17			
Magnesium	20.7	0.100	mg/L	20.0		104	85-115			
Sodium	6.81	1.00	mg/L	6.48		105	85-115			
Potassium	8.36	1.00	mg/L	8.00		104	85-115			
Calcium	4.07	0.100	mg/L	4.00		102	85-115			
LCS Dup (B704200-BSD1)				Prepared: 2	28-Арг-17 А	nalyzed: 0	1-May-17			
Calcium	4.07	0.100	mg/L	4.00		102	85-115	0.0739	20	
Sodium	6.83	1.00	mg/L	6.48		105	85-115	0.275	20	
Magnesium	20.8	0.100	mg/L	20.0		104	85-115	0.274	20	
Potassium	8.32	1.00	mg/L	8.00		104	85-115	0.396	20	

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Notes and Definitions

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

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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FOR LAB USE CHA.Y		_	H		MATRIX		a.	PRESERV	L	SAMPLING							-			-			
Lab I.D. HT0 DH3	Sample I.D.	(G)RAS OR (C)OMP.	# CONTAINERS	GROUNDWATER	rios	SEUDGE	OTHER:	ICE / COOL		DATE	TIME	Maited											
-	Fresh water	-	7	>					1/2/1	-	3:00	7								-			
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† Cardinal cannot accept verbal changes. Please fax written changes to (575) 3932326



December 05, 2017

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 11/16/17 10:22.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-9. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

Method EPA 552.2 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)

Celeg & Keens

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



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

Analytical Results For:

ETZ WATER STATION PO BOX 6056

HOBBS NM, 88241

Project: SCHUBERT

Project Number: FARMS #1

Project Manager: BEN DONAHUE

Fax To:

Reported:

05-Dec-17 14:36

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BRINE WATER	H703207-01	Water	16-Nov-17 09:00	16-Nov-17 10:22
MONITOR WELL	H703207-02	Water	16-Nov-17 09:00	16-Nov-17 10:22
FRESH WATER	H703207-03	Water	16-Nov-17 09:00	16-Nov-17 10:22

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*=Accredited Analyte

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

Project Number: FARMS #1

Project Manager: BEN DONAHUE

Fax To:

Reported: 05-Dec-17 14:36

BRINE WATER

H703207-01 (Water)

			42.00.	,	,					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Inorganic Compounds										
Alkalinity, Bicarbonate	476		5.00	mg/L	1	7110705	AC	17-Nov-17	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	7110705	AC	17-Nov-17	310.1	
Chloride*	162000		4.00	mg/L	1	7112001	AC	20-Nov-17	4500-CI-B	
Conductivity*	475000		1.00	uS/cm	1	7111701	AC	17-Nov-17	120.1	
pH*	6.96		0.100	pH Units	1	7111701	AC	16-Nov-17	150.1	
Sulfate*	6580		833	mg/L	83.3	7112201	AC	22-Nov-17	375.4	
TDS*	266000		5.00	mg/L	1	7111608	AC	17-Nov-17	160.1	
Alkalinity, Total*	390		4.00	mg/L	1	7110705	AC	17-Nov-17	310.1	
			Green Ana	lytical Labo	oratories					
Total Recoverable Metals by	ICP (E200.7)									
Calcium*	844		1.00	mg/L	10	B711206	JDA	29-Nov-17	EPA200.7	
Magnesium*	455		1.00	mg/L	10	B711206	JDA	29-Nov-17	EPA200.7	
Potassium*	1420		10.0	mg/L	10	B711206	JDA	29-Nov-17	EPA200.7	
Sodium*	91100		200	mg/L	200	B711206	JDA	29-Nov-17	EPA200.7	

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Celey D. Kuna



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

Project Manager: BEN DONAHUE

Fax To:

Reported:

05-Dec-17 14:36

MONITOR WELL H703207-02 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Inorganic Compounds		-								
Alkalinity, Bicarbonate	327		5.00	mg/L	1	7110705	AC	17-Nov-17	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	7110705	AC	17-Nov-17	310.1	
Chloride*	356		4.00	mg/L	1	7112001	AC	20-Nov-17	4500-CI-B	
Conductivity*	1790		1.00	uS/cm	1	7111701	AC	17-Nov-17	120.1	
pH*	7.60		0.100	pH Units	1	7111701	AC	16-Nov-17	150.1	
Sulfate*	264		50.0	mg/L	5	7112201	AC	22-Nov-17	375.4	
TDS*	1180		5.00	mg/L	1	7111608	AC	17-Nov-17	160.1	
Alkalinity, Total*	268		4.00	mg/L	1	7110705	AC	17-Nov-17	310.1	
			Green Ana	lytical Lab	oratories					
Total Recoverable Metals by	ICP (E200.7)									
Calcium*	171		1.00	mg/L	10	B711206	JDA	29-Nov-17	EPA200.7	
Magnesium*	45.3		1.00	mg/L	10	B711206	JDA	29-Nov-17	EPA200.7	
Potassium*	<10.0		10.0	mg/L	10	B711206	JDA	29-Nov-17	EPA200.7	
Sodium*	125		10.0	mg/L	10	B711206	JDA	29-Nov-17	EPA200.7	

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Celey D. Keine



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

Project Manager: BEN DONAHUE

Fax To:

Reported: 05-Dec-17 14:36

FRESH WATER H703207-03 (Water)

Alkalinity, Carbonate <1.00											
Note	Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Alkalinity, Bicarbonate 283 5.00 mg/L 1 7110705 AC 17-Nov-17 310.1				Cardin	ial Laborat	ories					
Alkalinity, Carbonate <1.00	Inorganic Compounds										
Chloride* 224 4.00 mg/L 1 7112001 AC 20-Nov-17 4500-CI-B Conductivity* 1420 1.00 uS/cm 1 7111701 AC 17-Nov-17 120.1 pH* 7.98 0.100 pH Units 1 7111701 AC 16-Nov-17 150.1 Sulfate* 195 25.0 mg/L 2.5 7112201 AC 22-Nov-17 375.4 TDS* 896 5.00 mg/L 1 7110705 AC 17-Nov-17 160.1 Alkalinity, Total* 232 4.00 mg/L 1 7110705 AC 17-Nov-17 310.1 Green Analytical Laboratories Total Recoverable Metals by ICP (E200.7) Calcium* 119 5.00 mg/L 50 B711172 JDA 22-Nov-17 EPA200.7 Magnesium* 25.6 5.00 mg/L 50 B711172 JDA 22-Nov-17 EPA200.7	Alkalinity, Bicarbonate	283		5.00	mg/L	1	7110705	AC	17-Nov-17	310.1	
Conductivity* 1420 1.00 uS/cm 1 7111701 AC 17-Nov-17 120.1 pH* 7.98 0.100 pH Units 1 7111701 AC 16-Nov-17 150.1 Sulfate* 195 25.0 mg/L 2.5 711201 AC 22-Nov-17 375.4 TDS* 896 5.00 mg/L 1 7111608 AC 17-Nov-17 160.1 Alkalinity, Total* 232 4.00 mg/L 1 7110705 AC 17-Nov-17 310.1 Green Analytical Laboratories Total Recoverable Metals by ICP (E200.7) Calcium* 119 5.00 mg/L 50 B711172 JDA 22-Nov-17 EPA200.7 Magnesium* 25.6 5.00 mg/L 50 B711172 JDA 22-Nov-17 EPA200.7 Potassium* <50.0 50.0 mg/L 50 B711172 JDA 22-Nov-17 EPA200.7	Alkalinity, Carbonate	<1.00		1.00	mg/L	1	7110705	AC	17-Nov-17	310.1	
pH* 7.98 0.100 pH Units 1 7111701 AC 16-Nov-17 150.1 Sulfate* 195 25.0 mg/L 2.5 7112201 AC 22-Nov-17 375.4 TDS* 896 5.00 mg/L 1 7111608 AC 17-Nov-17 160.1 Alkalinity, Total* 232 4.00 mg/L 1 7110705 AC 17-Nov-17 310.1 Green Analytical Laboratories Total Recoverable Metals by ICP (E200.7) Calcium* 119 5.00 mg/L 50 B711172 JDA 22-Nov-17 EPA200.7 Magnesium* 25.6 5.00 mg/L 50 B711172 JDA 22-Nov-17 EPA200.7 Potassium* <50.0 50.0 mg/L 50 B711172 JDA 22-Nov-17 EPA200.7	Chloride*	224		4.00	mg/L	1	7112001	AC	20-Nov-17	4500-CI-B	
Sulfate* 195 25.0 mg/L 2.5 7112201 AC 22-Nov-17 375.4 TDS* 896 5.00 mg/L 1 7111608 AC 17-Nov-17 160.1 Alkalinity, Total* Green Analytical Laboratories Green Analytical Laboratories Total Recoverable Metals by ICP (E200.7) Calcium* 119 5.00 mg/L 50 B711172 JDA 22-Nov-17 EPA200.7 Magnesium* 25.6 5.00 mg/L 50 B711172 JDA 22-Nov-17 EPA200.7 Potassium* < 50.0 50.0 mg/L 50 B711172 JDA 22-Nov-17 EPA200.7	Conductivity*	1420		1.00	uS/cm	1	7111701	AC'	17-Nov-17	120.1	
TDS* 896 5.00 mg/L 1 7111608 AC 17-Nov-17 160.1 Alkalinity, Total* 232 4.00 mg/L 1 7110705 AC 17-Nov-17 310.1 Green Analytical Laboratories Total Recoverable Metals by ICP (E200.7) Calcium* 119 5.00 mg/L 50 B711172 JDA 22-Nov-17 EPA200.7 Magnesium* 25.6 5.00 mg/L 50 B711172 JDA 22-Nov-17 EPA200.7 Potassium* <50.0 50.0 mg/L 50 B711172 JDA 22-Nov-17 EPA200.7	pH*	7.98		0.100	pH Units	1	7111701	AC	16-Nov-17	150.1	
Calcium* Calcium*	Sulfate*	195		25.0	mg/L	2.5	7112201	AC	22-Nov-17	375.4	
Calcium* Solution Solution	TDS*	896		5.00	mg/L	1	7111608	AC	17-Nov-17	160.1	
Total Recoverable Metals by ICP (E200.7) Calcium* 119 5.00 mg/L 50 B711172 JDA 22-Nov-17 EPA200.7 Magnesium* 25.6 5.00 mg/L 50 B711172 JDA 22-Nov-17 EPA200.7 Potassium* < 50.0 50.0 mg/L 50 B711172 JDA 22-Nov-17 EPA200.7	Alkalinity, Total*	232		4.00	mg/L	1	7110705	AC	17-Nov-17	310.1	
Calcium* 119 5.00 mg/L 50 B711172 JDA 22-Nov-17 EPA200.7 Magnesium* 25.6 5.00 mg/L 50 B711172 JDA 22-Nov-17 EPA200.7 Potassium* < 50.0 50.0 mg/L 50 B711172 JDA 22-Nov-17 EPA200.7				Green Ana	lytical Lab	oratories					
Magnesium* 25.6 5.00 mg/L 50 B711172 JDA 22-Nov-17 EPA200.7 Potassium* <50.0	Total Recoverable Metals by	ICP (E200.7)									
Potassium* <50.0 50.0 mg/L 50 B711172 JDA 22-Nov-17 EPA200.7	Calcium*	119		5.00	mg/L	50	B711172	JDA	22-Nov-17	EPA200.7	
	Magnesium*	25.6		5.00	mg/L	50	B711172	JDA	22-Nov-17	EPA200.7	
Sodium* 130 50.0 mg/L 50 B711172 JDA 22-Nov-17 EPA200.7	Potassium*	<50.0		50.0	mg/L	50	B711172	JDA	22-Nov-17	EPA200.7	
	Sodium*	130		50.0	mg/L	50	B711172	JDA	22-Nov-17	EPA200.7	

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

Project Manager: BEN DONAHUE

Fax To:

Reported: 05-Dec-17 14:36

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7110705 - General Prep - Wet Chem										
Blank (7110705-BLK1)				Prepared &	Analyzed:	07-Nov-17				
Alkalinity, Carbonate	ND	1.00	mg/L							
Alkalinity, Bicarbonate	5.00	5.00	mg/L							
Alkalinity, Total	4.00	4.00	mg/L							
LCS (7110705-BS1)				Prepared &	Analyzed:	07-Nov-17				
Alkalinity, Carbonate	ND	2.50	mg/L				80-120			
Alkalinity, Bicarbonate	330	12.5	mg/L				80-120			
Alkalinity, Total	270	10.0	mg/L	250		108	80-120			
LCS Dup (7110705-BSD1)				Prepared &	Analyzed:	07-Nov-17	,			
Alkalinity, Carbonate	ND	2.50	mg/L				80-120		20	
Alkalinity, Bicarbonate	355	12.5	mg/L				80-120	7.30	20	
Alkalinity, Total	290	10.0	mg/L	250		116	80-120	7.14	20	
Batch 7111608 - Filtration										
Blank (7111608-BLK1)				Prepared:	16-Nov-17	Analyzed: 1	7-Nov-17			
TDS	ND	5.00	mg/L							
LCS (7111608-BS1)				Prepared:	16-Nov-17	Analyzed:	7-Nov-17			
TDS	228	5.00	mg/L	213		107	80-120			
Duplicate (7111608-DUP1)	Sou	rce: H703199	-01	Prepared:	16-Nov-17	Analyzed:	7-Nov-17			
TDS	9630	5.00	mg/L		9890			2.64	20	
Batch 7111701 - General Prep - Wet Chem										
LCS (7111701-BS1)				Prepared:	16-Nov-17	Analyzed:	17-Nov-17			
Conductivity	507		uS/cm	500		101	80-120			
pH	6.97		pH Units	7.00		99.6	90-110			

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Celey D. Keine



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

Analytical Results For:

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

Project Manager: BEN DONAHUE

Fax To:

Reported: 05-Dec-17 14:36

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7111701 - General Prep - Wet Chem										
Duplicate (7111701-DUP1)	Sou	rce: H703206	-01	Prepared:	16-Nov-17	Analyzed: 1	7-Nov-17			
Conductivity	501000	1.00	uS/cm		494000			1.46	20	
pH	7.07	0.100	pH Units		7.06			0.142	20	
Batch 7112001 - General Prep - Wet Chem										
Blank (7112001-BLK1)				Prepared &	& Analyzed:	20-Nov-17	,			
Chloride	ND	4.00	mg/L							
LCS (7112001-BS1)				Prepared &	& Analyzed:	20-Nov-17				
Chloride	100	4.00	mg/L	100		100	80-120			
LCS Dup (7112001-BSD1)				Prepared &	& Analyzed:	20-Nov-17	,			
Chloride	100	4.00	mg/L	100		100	80-120	0.00	20	
Batch 7112201 - General Prep - Wet Chem							·			
Blank (7112201-BLK1)				Prepared &	& Analyzed:	22-Nov-17	7			
Sulfare	ND	10.0	mg/L							
LCS (7112201-BS1)				Prepared &	& Analyzed:	22-Nov-17	7			
Sulfate	23.2	10.0	mg/L	20.0		116	80-120			
LCS Dup (7112201-BSD1)				Prepared &	& Analyzed:	22-Nov-17	7			
Sulfate	23.6	10.0	mg/L	20.0		118	80-120	1.79	20	

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Celeny D. Keene



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

Project Manager: BEN DONAHUE

Fax To:

Reported: 05-Dec-17 14:36

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

Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B711172 - Total Rec. 200.7/200.	8/200.2									
Blank (B711172-BLK1)				Prepared: 2	20-Nov-17	Analyzed: 2	2-Nov-17			
Sodium	ND	1.00	mg/L							
Magnesium	ND	0.100	mg/L							
Calcium	ND	0.100	mg/L							
Potassium	ND	1.00	mg/L							
LCS (B711172-BS1)				Prepared: 2	20-Nov-17	Analyzed: 2	2-Nov-17			
Magnesium	20.8	0.100	mg/L	20.0		104	85-115			
Calcium	4.23	0.100	mg/L	4.00		106	85-115			
Sodium	6.68	1.00	mg/L	6.48		103	85-115			
Potassium	8.07	1.00	mg/L	8.00		101	85-115			
LCS Dup (B711172-BSD1)				Prepared: 2	20-Nov-17	Analyzed: 2	2-Nov-17			
Magnesium	20.8	0.100	mg/L	20.0		104	85-115	0.0742	20	
Potassium	8.22	1.00	mg/L	8.00		103	85-115	1.77	20	
Calcium	4.24	0.100	mg/L	4.00		106	85-115	0.215	20	
Sodium	6.66	1.00	mg/L	6.48		103	85-115	0.224	20	
Batch B711206 - Total Rec. 200.7/200.	8/200.2									
Blank (B711206-BLK1)				Prepared: 2	27-Nov-17	Analyzed: 2	9-Nov-17			
Calcium	ND	0.100	mg/L							
Sodium	ND	1.00	mg/L							
Magnesium	ND	0.100	mg/L							
Potassium	ND	1.00	mg/L							
LCS (B711206-BS1)				Prepared: 2	27-Nov-17	Analyzed: 2	29-Nov-17			
Magnesium	20.7	0.100	mg/L	20.0		104	85-115			
Potassium	8.35	1.00	mg/L	8.00		104	85-115			
Calcium	4.15	0.100	mg/L	4.00		104	85-115			
Sodium	6.64	1.00	mg/L	6.48		102	85-115			

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Celeg D. Keene



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

Project Manager: BEN DONAHUE

Fax To:

Reported:

05-Dec-17 14:36

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

Green Analytical Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B711206 - Total Rec. 200.7/200.8/20	0.2									
LCS Dup (B711206-BSD1)				Prepared: 2	27-Nov-17 A	Analyzed: 2	9-Nov-17			
Potassium	8.07	1.00	mg/L	8.00		101	85-115	3.36	20	
Magnesium	20.0	0.100	mg/L	20.0		100	85-115	3.34	20	
Sodium	6.43	1.00	mg/L	6.48		99.2	85-115	3.28	20	
Calcium	3.99	0.100	mg/L	4.00		99.7	85-115	4.11	20	

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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

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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