BW - ____31____

BRINE PRODUCTION

SCHUBERT 7 - WELL # 1

Year 2019

MONTH	PRODUCTION (BY Meter)	FRESH WATER INJECTED (By Meter)	
January February March April May June July August September	30,031 28,726 27,971 16,717 18,123 27,630 23,990	29,719 28,492 27,860 16,621 13,967 27,447 23,812	
October November December			

BW 31

FRESH WATER WATER WATER WATER WATER WATER WATER WATER WATER BBLS WATER WATER WATER BY GALLONS (X 100) (X 10) (X 100) (X 10) (X 100) (X 10	### FRESHINE TOTAL BRINE FRESH WATER DATE BRINE FRESH WATER WATER				25%	SCHUBERI / WEEE # -		FREELI WATER	COECL	TOTAL
30,031 30,031 29,719 01/31/19 1,297,613 12,482 28,726 28,492 02/28/19 1,309,580 11,967 37,971 27,860 03/30/19 1,322,222 6,981 14,701 37,630 27,630 23,990 23,812 23,990 23,812 23,990 23,812 23,812 23,990 23,812 23,812 23,812 23,990 23,812 23,812 23,990 23,812 23,812 23,990 23,812 23,812 23,990 23,812 23,812 23,990 23,812 23,812 23,990 23,812 23	30,031 30,031 29,719 01/31/19 1,297,613 12,482 28,726 28,492 02/28/19 1,309,580 11,967 37,971 27,860 03/30/19 1,321,281 11,701 27,803 18,123 13,967 05/31/19 1,325,282 6,981 27,630 27,630 23,990 23,812 06/30/19 1,355,808 7,546 39,99 23,812 07/31/19 1,355,337 10,001	2019	ETZ BRINE WATER BBLS	PATE BRINE WATER BBLS	TOTAL BRINE WATER BBLS	FRESH WATER INJECTED BBLS	DATE FRESH WATER METER READ	METER READING BY GALLONS (X 100)	WATER USED BY GALLONS (X 100)	FRESH WATER BBLS
28,726 28,492 02/28/19 1,309,580 11,967 28,726 28,492 28,726 03/30/19 1,321,281 11,701 27,971 16,621 04/30/19 1,328,262 6,981 11,701 27,630 27,630 27,447 06/30/19 1,335,808 7,546 23,990 23,812 07/31/19 1,357,337 10,001 199 199 199 199 199 199 199 199 199	28,726 28,492 02/28/19 1,309,580 11,967 27,971 27,860 03/30/19 1,321,281 11,701 27,971 16,621 04/30/19 1,328,262 6,981 27,630 27,630 27,630 23,990 23,812 07/31/19 1,357,337 10,001 99	0.000	30.034		30,031	29,719	01/31/19		12,482	29,719
16.717	16.717	JANUARY, 2019	TEN'OS		28.726	28,492	02/28/19	1,309,580	11,967	28,492
16, 2019 20, 2019 20, 2019	16,717 16,621 04,30/19 1,328,262 6,981 1,31,328 1,328,326 1,328,326 1,328,326 1,328,326 1,328,326 1,328,336 1,328,336 1,328,336 1,328,336 1,3399 1,3399 1,347,336 1,347,347,347,347,347,347,347,347,347,347	FEBRUARY, 2019	97 074		27,971	27,860	03/30/19		11,701	27,860
18,123 18,123 13,967 05/31/19 1,335,808 7,546 11,528 27,630 23,990 23,812 07/31/19 1,357,337 10,001 11,528	18,123 13,967 05/31/19 1,335,808 7,546 12,23,990 23,812 06/30/19 1,347,336 11,528 11,528 12,2019 23,990 23,812 07/31/19 1,357,337 10,001 13,2019 1,301 13,20	MARCH, 2019	416/17		16.717	16,621	04/30/19		6,981	16,621
1, 2019 2, 2019 2, 2019 2, 2019 2, 2019 2, 2019 2, 2019 2, 2019 3, 2019 4, 2019 5, 2019	10.153 27,630 23,990 10.34/19 10,001 2019 10,001 10,001 10,001 10,001 10,001 10,001 10,001 10,001 10,001 10,001 10,001 10,001 10,001 10,001 10,001	APRIL, 2019	10,717		18.123	13,967	05/31/19		7,546	13,967
23,990 23,812 007/31/19 1,357,337 10,001 23,990 23,812 007/31/19 1,357,337 10,001 8, 2019 1,3019 1	27,630 23,990 23,990 23,990 23,990 23,990 23,2019 2,2019 3,2019 3,2019	MAY, 2019	18,173		000 000		06/30/19		11,528	27,447
8, 2019 8, 2019 8, 2019 1, 2019	8, 2019 8, 2019 8, 2019 3, 2019	JUNE, 2019	27,630	0.0	23,990		07/31/19		10,001	23,812
		AUGUST, 2019								
		SEPTEMBER, 2019								
5	5	OCTOBER, 2019								
		NOVEMBER, 2019								
		DECEMBER, 2019								
				No.						
						0				



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

B-31 Schubert 7 - Well # 1 (BW-31)

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

BW - 31

SCHUBERT 7 - WELL # 1

Year 2018

MONTH	BRINE PRODUCTION (BY Meter)	FRESH WATER INJECTED (By Meter)	
Iamuam:	25,912	25,981	
January February	23,395	22,926	
March	9,552	9,402	
April	11,771	11,674	
May	15,573	15,216	
June	21,761	21,459	
July	18,602	18,409	
August	17,971	17,854	
Septem ber	22,200	21,959	
October	21,614	21,369	
November	24,652	24,502	
December	28,007	27,876	



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)

Celeg L. 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 HOBBS NM, 88241

Project Number: #7 BRINE WATER SAMPLES

18-Dec-18 11:24

Project Manager: BEN DONAHUE

Fax To:

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BRINE WATER	H803419-01	Water	21-Nov-18 06:00	21-Nov-18 08:15
FRESH WATER	H803419-02	Water	21-Nov-18 06:00	21-Nov-18 08:15
MONITOR WELL	H803419-03	Water	21-Nov-18 06:00	21-Nov-18 08:15

Cardinal Laboratories

*=Accredited Analyte

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Celegit Kiene



ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241

Project: SCHUBERT

Reported: 18-Dec-18 11:24

Project Number: #7 BRINE WATER SAMPLES

Project Manager: BEN DONAHUE

Fax To:

BRINE WATER H803419-01 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	nal Laborat	ories					
Inorganic Compounds										
Alkalinity, Bicarbonate	303		5.00	mg.L	1	8112610	ΛC	26-Nov-18	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	8112610	AC	26-Nov-18	310.1	
Chloride*	176000		4.00	mg/L	i	8112601	AC	26-Nov-18	4500-CI-B	
Conductivity*	237000		1.00	uS/cm	1	8112118	AC	21-Nov-18	120.1	
pH*	7.02		0.100	pH Units	1	8112118	AC	21-Nov-18	150.1	
Sulfate*	3810		833	mg/L	83.3	8112713	AC	27-Nov-18	375.4	
TDS*	271000		5.00	mg/L	1	8111901	AC	27-Nov-18	160.1	
Alkalinity, Total*	248		4.00	mg/L	1	8112610	AC	26-Nov-18	310.1	
			Green Ana	lytical Lab	oratories					
Total Recoverable Metals by	ICP (E200.7)									
Calcium*	1280		25.0	mg/L	250	B812009	AES	07-Dec-18	EPA200.7	
Magnesium*	322		25.0	mg/L	250	B812009	AES	07-Dec-18	EPA200.7	
Potassium*	114	16.9	250	mg/L	250	B812009	AES	11-Dec-18	EPA200.7	J
Sodium*	99500		250	mg/L	250	B812009	AES	07-Dec-18	EPA200 7	

Cardinal Laboratories

*=Accredited Analyte

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Celegit time

Reported:

18-Dec-18 11:24



Analytical Results For:

ETZ WATER STATION

PO BOX 6056 HOBBS NM, 88241 Project: SCHUBERT

Project Number: #7 BRINE WATER SAMPLES

Project Manager: BEN DONAHUE

Fax To:

FRESH WATER

H803419-02 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Inorganic Compounds										
Alkalinity, Bicarbonate	312		5.00	mg/L	1	8112610	AC	26-Nov-18	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	i	8112610	AC	26-Nov-18	310.1	
Chloride*	280		4.00	mg/L	1	8112601	AC	26-Nov-18	4500-CI-B	
Conductivity*	1450		1.00	uS/cm	1	8112118	AC	21-Nov-18	120.1	
pH*	7.58		0.100	pH Units	I	8112118	ΔC	21-Nov-18	150 1	
Sulfate*	199		50.0	mg/L	5	8112713	AC	27-Nov-18	375.4	
TDS*	694		5.00	mg/L	1	8111901	AC	28-Nov-18	160.1	
Alkalinity, Total*	256		4.00	mg/L	1	8112610	AC	26-Nov-18	310.1	
1										
			Green Ana	lytical Labo	oratories					
Total Recoverable Metals by	ICP (E200.7)									
Calcium*	117		0.100	mg/L	1	B812009	AES	07-Dec-18	EPA200.7	
Magnesium*	23.4		0 100	mg/L	1	B812009	AES	07-Dec-18	EPA2007	
Potassium*	13.3	0.068	1.00	mg/L	I	B812009	AES	11-Dec-18	EPA200.7	
Sodium*	154		1.00	mgL	1	B812009	AES	07-Dec-18	EPA200.7	

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Reported:

18-Dec-18 11:24



Analytical Results For:

ETZ WATER STATION

PO BOX 6056 HOBBS NM, 88241 Project: SCHUBERT

Project Number: #7 BRINE WATER SAMPLES

Project Manager: BEN DONAHUE

Fax To:

MONITOR WELL

H803419-03 (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	8112610	AC	26-Nov-18	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	8112610	AC	26-Nov-18	310.1	
Chloride*	64.0		4.00	mg/L	1	8112601	AC	26-Nov-18	4500-C1-B	
Conductivity*	647		1.00	uS/cm	1	8112118	AC	21-Nov-18	120.1	
pH*	7.75		0.100	pH Units	1	8112118	AC	21-Nov-18	150.1	
Sulfate*	62.5		10.0	mg/L	1	8112713	AC	27-Nov-18	375.4	
TDS*	170		5.00	mg/L	1	8111901	AC	28-Nov-18	160.1	
Alkalinity, Total*	204		4.00	mg/L	1	8112610	AC	26-Nov-18	310.1	
			Green Ana	lytical Labo	oratories					
Total Recoverable Metals by	ICP (E200.7)									
Calcium*	55.0		0.100	mg/L	1	B812009	AES	07-Dec-18	EPA200.7	
Magnesium*	16.6		0.100	mg/L	1	B812009	AES	07-Dec-18	EPA200.7	
Potassium*	2.00	0.068	1.00	mg/L	1	B812009	AES	11-Dec-18	EPA200.7	
Sodium*	58.7		1.00	nig.L	1	B812009	AES	07-Dec-18	EPA200.7	

*=Accredited Analyte Cardinal Laboratories

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

Project Number: #7 BRINE WATER SAMPLES

Project Manager: BEN DONAHUE

Fax To:

Reported: 18-Dec-18 11:24

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8111901 - Filtration										
Blank (8111901-BLK1)				Prepared:	19-Nov-18	Analyzed:	20-Nov-18			
TDS	ND	5.00	mg/L							
LC\$ (8111901-BS1)				Prepared:	19-Nov-18	Analyzed:	20-Nov-18			
TDS	522		mg/L	672		77.7	80-120			
Duplicate (8111901-DUP1)	Son	urce: H803351	-01	Prepared:	19-Nov-18	Analyzed:	20-Nov-18			
TDS	562	5.00	mg/L		452			21.7	20	QR-03
Batch 8112118 - General Prep - Wet Chem LCS (8112118-BS1)				Prepared	& Analyzed:	21-Nov-	8			
					& Analyzed:					
Conductivity	100000		uS/cm	100000		100	80-120			
рН	7.12		pH Units	7.00		102	90-110			
Duplicate (8112118-DUP1)	Ser	urce: H803419	-01	Prepared	& Analyzed:	21-Nov-	8			
pH	7.07	0.100	pH Units		7.02			0.710	20	
Conductivity	236000	1.00	uS/cm		237000			0.338	20	
Batch 8112601 - General Prep - Wet Chem									· · · · · · · · · · · · · · · · · · ·	
Blank (8112601-BLK1)				Prepared	& Analyzed:	26-Nov-1	8			
Chloride	ND	4.00	mg/L							
LCS (8112601-BS1)				Prepared	& Analyzed:	26-Nov-	8			
Chloride	100	4.00	mg/L	100		100	80-120			

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keene



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

SCHUBERT

Reported: 18-Dec-18 11:24

Project Number: #7 BRINE WATER SAMPLES

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 8112601 - General Prep - Wet Chem										
LCS Dup (8112601-BSD1)				Prepared &	: Analyzed:	26-Nov-18				
Chloride	100	4.00	mg/L	100		100	80-120	0.00	20	
Batch 8112610 - General Prep - Wet Chem										
Blank (8112610-BLK1)				Prepared &	Analyzed:	26-Nov-18				
Alkalinity, Carbonate	ND	1 00	mg/L							
Alkalinity, Bicarbonate	5.00	5.00	mg/L							
Alkalinity, Total	4.00	4 00	mgL							
LCS (8112610-BS1)				Prepared &	Analyzed:	26-Nov-18				
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 (8112610-BSD1)				Prepared &	Analyzed:	26-Nov-18				
Alkalinity, Carbonate	ND	2.50	mg/L				80-120		20	
Alkalinity, Bicarbonate	305	12.5	mgI.				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)				Prepared &	Analyzed:	27-Nov-18				
Sulfate	ND	10.0	mg/L							
LCS (8112713-BS1)				Prepared &	Analyzed:	27-Nov-18				
Sulfate	23.3	10.0	mg/L	20.8		117	80-120			

Cardinal Laboratories

*=Accredited Analyte

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alex to treme



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

Analytical Results For:

ETZ WATER STATION

Project: SCHUBERT

Reported:

PO BOX 6056

Project Number: #7 BRINE WATER SAMPLES

18-Dec-18 11:24

HOBBS NM, 88241

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 8112713 - General Prep - Wet Chem										

LCS Dup (8112713-BSD1) Prepared & Analyzed: 27-Nov-18

Sulfate 10.0 mg/L 80-120 20

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Analytical Results For:

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

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Reported: 18-Dec-18 11:24

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Project Number: #7 BRINE WATER SAMPLES

Project Manager: BEN DONAHUE

Spika

Fax To:

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 B812009 - Total Rec. 200.7/20	0.8/200.2									
Blank (B812009-BLK1)				Prepared: (03-Dec-18 A	Analyzed: 0	7-Dec-18			
Magnesium	ND	0.100	mg/L							
Calcium	ND	0.100	mg/L							
Sodium	ND	1.00	mg/L							
Potassium	ND	1.00	mg/L							
LCS (B812009-BS1)				Prepared: ()3-Dec-18/	Analyzed. 1	1-Dec-18			
Potassium	8.21	1.00	mg/L	8.00		103	85-115			
Magnesium	20.7	0.100	mgT.	20,0		104	85-115			
Calcium	4.17	0.100	mg/L	4.00		104	85-115			
Sodium	3,38	1.00	mg/L	3.24		104	85-115			
LCS Dup (B812009-BSD1)				Prepared: (03-Dec-18 A	Analyzed: 1	1-Dec-18			
Potassium	8.16	1.00	mg/L	8.00		102	85-115	0.686	20	
Calcium	4.19	0.100	mg/L	4.00		105	85-115	0.480	20	
Sodium	3.34	1.00	mg/L	3.24		103	85-115	1.13	20	
Magnesium	20.8	0.100	mg/L	20.0		104	85-115	0.586	20	

Cardinal Laboratories *=Accredited Analyte

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Notes and Definitions

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

J Estimated conentration. Analyte concentration between MDL and RL.

ND Analyte NOT DETECTED at or above the reporting limit

Relative Percent Difference

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

*** Insufficient time to reach temperature.

RPD

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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Celeg T. Kiena



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	: ETZ Water Station								3	BI	LL TO					1	ANA	YSIS	S RE	QUE	ST			
Project Manage	Ben Donahue							P.O.	恭															
Address: P.O.	POX 5102							Com	pan	y:							1			1.				
city: Holds	5 State: NM	Zip	: 6	38	110	dali trprvram		Attn			3													
Phone #: 515	393 3K4 Fax#:							Addı	ress	:			5											
Project #:	Project Owne	er: G	XLS	45	che	in	ch	City:																
Project Name:	Schubert 47 water	300	mo	le				State			Zip:		Anion											
	: Schulmus 47 Brine							Pho	ne#	•	Additional days and an annual statement of the statement		. 3											
Sampler Name:	Ben Donahe							Fax	#:				3											
FOR LAB USE ONLY					M/	TRE	X	P	RES	ERV.	SAMPL	ING	1	-										
Lab I.D. H803419	Sample I.D.	(G)RAB OR (C)OMF	# CONTAINERS	GROUNDWATER	WASTEWATER	OIL	SLUDGE	OTHER:	ICE / COOI	OTHER:	DATE	TIME	lations											
1	Brine Water		1								11/2/18	GOLAN												
2	Fresh water monitor well		1								11/21/19	6:00Am												
3	monitor well		1								1721/18	Ma00:e)												
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service. In no event shall C	ng those for negligence and any other cause whatsoever shall b ardinal be liable for incidental or consequental damages, includi	ing witho	ut limit	milon, t	usiness	interru	ptions, I	oes of u	se, or l	ous of p	roffs incurred by	client, its subsidi-	aries,	le)										
Relinquished B	and out of or related to the performance of services hereunder by	3 Re		ved		-	11				e above stated (Phone Re Fax Resu REMARK	sult: lt:	☐ Yes				Phone Fax #:						
Relinquished B		Po	cei	ved	By:	1	4			000		em	ail:	doci	Det:	0	am.	غرا.	(4)	~		•		
Sampler - UPS	: (Circle One) - Bus - Other: 0-3c / 4		7		Samp Cool	Intes of	Yes			4	O V	1					3			,				



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.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

6-4-18





ETZ WATER STATION

Project: SCHUBERT

Reported: 04-Jun-18 11:50

PO BOX 6056 HOBBS NM, 88241 Project Number: #7 WATER SAMPLES - BRINE WEL

Project Manager: BEN DONAHUE

Fax To:

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FRESH WATER	H801389-01	Water	18-May-18 10:00	18-May-18 15:50
BRINE WATER	H801389-02	Water	18-May-18 10:05	18-May-18 15:50
MONITOR WELL	H801389-03	Water	18-May-18 10:10	18-May-18 15:50

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ETZ WATER STATION PO BOX 6056

HOBBS NM, 88241

Project: SCHUBERT

Project Number: #7 WATER SAMPLES - BRINE WEL

Project Manager: BEN DONAHUE

Fax To:

Reported: 04-Jun-18 11:50

FRESH WATER

H801389-01 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Inorganic Compounds										
Alkalinity, Bicarbonate	220		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*	120		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	
рН*	7.53		0.100	pH Units	1	8052104	AC	21-May-18	150.1	
Sulfate*	208		50.0	mg/L	5	8052201	AC	22-May-18	375.4	
TDS*	672		5.00	mg/L	F	8052105	AC	23-May-18	160.1	
Alkalinity, Total*	180		4.00	mg/L	1	8050906	AC	21-May-18	310.1	
			Green Ana	lytical Labo	ratories					
Total Recoverable Metals by	ICP (E200.7)									
Calcium*	86.3		1.00	mg/L	10	B805178	JDA	29-May-18	EPA200.7	
Magnesium*	24.8		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*	92.9		10.0	mg/L	10	B805178	JDA	29-May-18	EPA200.7	

*=Accredited Analyte Cardinal Laboratories

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ETZ WATER STATION

Project: SCHUBERT

Reported: 04-Jun-18 11:50

PO BOX 6056 HOBBS NM, 88241 Project Number: #7 WATER SAMPLES - BRINE WEL

Project Manager: BEN DONAHUE

Fax To:

BRINE WATER H801389-02 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Inorganic Compounds										
Alkalinity, Bicarbonate	122		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*	190000		4.00	mg/L	1	8051614	AC	21-May-18	4500-CI-B	
Conductivity*	253000		1.00	uS/cm	1	8052104	AC	21-May-18	120.1	
pH*	6.91		0.100	pH Units	1	8052104	AC	21-May-18	150.1	
Sulfate*	5000		833	mg/L	83.33	8052201	AC	22-May-18	375.4	
TDS*	305000		5.00	mg/L	1	8052105	AC	23-May-18	160.1	
Alkalinity, Total*	100		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*	1300		50.0	mg/L	500	B805178	JDA	29-May-18	EPA200.7	
Magnesium*	359		50.0	mg/L	500	B805178	JDA	29-May-18	EPA200.7	
Potassium*	<500		500	mg/L	500	B805178	JDA	29-May-18	EPA200.7	
Sodium*	108000		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 11:50

Project Number: #7 WATER SAMPLES - BRINE WEL

Project Manager: BEN DONAHUE

Fax To:

MONITOR WELL H801389-03 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Inorganic Compounds										
Alkalinity, Bicarbonate	234		5.00	mg/L	1	8050906	AC	21-May-18	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	I	8050906	AC	21-May-18	310.1	
Chloride*	72.0		4.00	mg/L	3	8051614	AC	21-May-18	4500-CI-B	
Conductivity*	696		1.00	uS/cm	ì	8052104	AC	21-May-18	120.1	
pH*	8.00		0.100	pH Units	1	8052104	AC	21-May-18	150.1	
Sulfate*	83.7		25.0	mg/L	2.5	8052201	AC	22-May-18	375.4	
TDS*	408		5.00	mg/L	1	8052105	AC	23-May-18	160.1	
Alkalinity, Total*	192		4.00	mg/L	1	8050906	AC	21-May-18	310.1	
			Green Ana	lytical Labo	oratories					
Total Recoverable Metals by IC	CP (E200.7)									
Calcium*	47.0		1.00	mg/L	10	B805178	JDA	29-May-18	EPA200.7	
Magnesium*	14.2		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*	72.2		10.0	mg/L	10	B805178	JDA	29-May-18	EPA200.7	

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Analytical Results For:

ETZ WATER STATION

Project: SCHUBERT

Reported:

PO BOX 6056

Project Number: #7 WATER SAMPLES - BRINE WEL

04-Jun-18 11:50

DDD

HOBBS NM, 88241

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 8050906 - General Prep - Wet Chem										
Blank (8050906-BLK1)				Prepared &	Analyzed:	09-May-18				
Alkalinity, Carbonate	ND	1.00	mg/L							
Alkalinity, Bicarbonate	5.00	5.00	mg/L							
Alkalinity, Total	4.00	4.00	mg/L							
LCS (8050906-BS1)				Prepared &	Analyzed	09-May-18				
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				
Alkalinity, Carbonate	ND	2.50	ing/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				
Chloride	ND	4.00	mg/L							
LCS (8051614-BS1)				Prepared &	Analyzed:	16-May-18				
Chloride	100	4.00	mg/L	100		100	80-120			
LCS Dup (8051614-BSD1)				Prepared &	Analyzed:	16-May-18				
Chloride	104	4.00	mg/L	100		104	80-120	3.92	20	
Batch 8052104 - General Prep - Wei Chem										
LCS (8052104-BS1)				Prepared &	Analyzed:	21-May-18				
рН	7.20		pH Units	7.00		103	90-110			
	501									

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ETZ WATER STATION

Project: SCHUBERT

Reported:

PO BOX 6056 HOBBS NM, 88241 Project Number: #7 WATER SAMPLES - BRINE WEL

04-Jun-18 11:50

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 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	ND	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 8052201 - General Prep - Wet Chem										
Blank (8052201-BLK1)				Prepared &	k Analyzed:	22-May-18	3			
Sulfate	ND	10.0	mg/L							
LCS (8052201-BS1)				Prepared &	k Analyzed:	22-May-18	3			
Sulfate	19.6	10.0	mg/L	20.0		98.2	80-120			
LCS Dup (8052201-BSD1)				Prepared &	2 Analyzed:	22-May-18	3			
Sulfate	20.8	10.0	mg/L	20.0		104	80-120	5.88	20	

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ETZ WATER STATION

Project: SCHUBERT

Reported:

PO BOX 6056

Project Number: #7 WATER SAMPLES - BRINE WEL

04-Jun-18 11:50

HOBBS NM, 88241

Project Manager: BEN DONAHUE

Fax To:

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 B805178 - Total Rec. 200.7/200.8/200.2										
Blank (B805178-BLK1)				Prepared: 2	4-May-18 A	\nalyzed: 2	9-May-18			
Calcium	ND	0.100	mg/L							
Sodium	ND	1.00	mg/L							
Potassium	ND	1.00	mg/L							
Magnesium	ND	0.100	mg/L							
LCS (B805178-BS1)				Prepared: 2-	4-May-18 A	\nalyzed: 2	9-May-18			
Sodium	3.21	1.00	mg/L	3.24		99.2	85-115			
Potassium	8.17	1.00	ing/L	8.00		102	85-115			
Magnesium	20.2	0.100	mg/L	20.0		101	85-115			
Calcium	4.00	0.100	mg/L	4.00		100	85-115			
LCS Dup (B805178-BSD1)				Prepared: 2	4-May-18 A	Inalyzed: 2	9-May-18			
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	
Calcium	4.07	0.100	mg/L	4.60		102	85-115	1.63	20	
Magnesium	20.6	0.100	mg/L	20.0		103	85-115	1.60	20	

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ND

Notes and Definitions

Analyte NOT DETECTED at or above the reporting limit Relative Percent Difference RPD ** Samples not received at proper temperature of 6°C or below. Insufficient time to reach temperature. Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

*=Accredited Analyte Cardinal Laboratories

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Celly to treen -



Company Name: ETZ Libiter Station

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ANALYSIS REQUEST

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

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city: Hubbs		State: NM	Zip:	: 0	المراجعة	24			Attı	n:							٦																
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FOR LAB USE ONLY				П		MA.	TRIY			PRE	SE	₹٧,	SAMPL	ING]																	
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BILL TO

PO #.

SCHUBERT 7 - WELL # 1

Year 2017

MONTH	BRINE	FRESH WATER	
	PRODUCTION	INJECTED	
	(BY Meter)	(By Meter)	
January			
February			
March			
April			
May			
June			
July			
August			
September			
October			
November			
December	25,690	25,079	



November 28, 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 10:19.

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.tceg.texas.gov/field/ga/lab accred certif.html.

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

Method EPA 552.2

Total Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Celeg D. Keine

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

Method SM 9223-B

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

Method EPA 524.2

Regulated VOCs and Total Trihalomethanes (TTHM)

Method EPA 552.2

Total Haloacetic Acids (HAA-5)

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

11-28-17





ETZ WATER STATION

PO BOX 6056 HOBBS NM, 88241 Project: SCHUBERT

Project Number: #7

Project Manager: BEN DONAHUE

Fax To:

Reported: 28-Nov-17 18:13

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BRINE WATER	H703206-01	Water	16-Nov-17 07:45	16-Nov-17 10:19
MONITOR WELL	H703206-02	Water	16-Nov-17 07:45	16-Nov-17 10:19
FRESH WATER	H703206-03	Water	16-Nov-17 07:45	16-Nov-17 10:19

Cardinal Laboratories *=Accredited Analyte

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ETZ WATER STATION PO BOX 6056 Project: SCHUBERT

Reported:

PO BOX 6056 HOBBS NM, 88241 Project Number: #7

28-Nov-17 18:13

Project Number:

Project Manager: BEN DONAHUE

Fax To:

BRINE WATER H703206-01 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	ial Laborat	ories					
Inorganic Compounds										
Alkalinity, Bicarbouate	195		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*	172000		4.00	mg/L	1	7112001	AC	20-Nov-17	4500-Ci-B	
Conductivity*	494000		1.00	uS/cm	1	7111701	AC	17-Nov-17	120.1	
pH*	7.06		0.100	pH Units	1	7111701	AC	16-Nov-17	150.1	
Sulfate*	3960		500	mg/L	50	7112201	AC	22-Nov-17	375.4	
TDS*	257000		5.00	mg/L	1	7111608	AC	17-Nov-17	160.1	
Alkalinity, Total*	160		4.00	mg/L	I	7110705	AC	17-Nov-17	310.1	
			Green Ana	lytical Lab	oratories					
Total Recoverable Metals by I	CP (E200.7)									
Calcium*	1220	9.12	30.0	mg/L	300	B711172	JDA	22-Nov-17	EPA200.7	
Magnesium*	285	22.6	30.0	mg/L	300	B711172	JDA	22-Nov-17	EPA200.7	
Potassium*	<63.0	63.0	300	mg/L	300	B711172	JDA	22-Nov-17	EPA200.7	
Sodium*	93500	51.4	300	mg/L	300	B711172	JDA	22-Nov-17	EPA200.7	

Cardinal Laboratories

*=Accredited Analyte

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ETZ WATER STATION

PO BOX 6056 HOBBS NM, 88241 Project: SCHUBERT

Project Number: #7

Project Manager: BEN DONAHUE

Fax To:

Reported:

28-Nov-17 18:13

MONITOR WELL H703206-02 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Inorganic Compounds								T		
Alkalinity, Bicarbonate	220		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*	204		4.00	mg/L	1	7112001	AC	20-Nov-17	4500-CI-B	
Conductivity*	1210		1.00	uS/cm	1	7111701	AC	17-Nov-17	120.1	
pH*	7.82		0.100	pH Units	1	7111701	AC	16-Nov-17	150.1	
Sulfate*	170		25.0	mg/L	2.5	7112201	AC	22-Nov-17	375.4	
TDS*	794		5.00	mg/L	1	7111608	AC	17-Nov-17	160.1	
Alkalinity, Total*	180		4.00	mg/L	1	7110705	AC	17-Nov-17	310.1	
			Green Ana	lytical Labo	ratories					
Total Recoverable Metals by IC	CP (E200.7)									
Calcium*	92.2	1.52	5.00	mg/L	50	B711172	JDA	22-Nov-17	EPA200.7	
Magnesium*	25.1	3.77	5.00	mg/L	50	B711172	JDA	22-Nov-17	EPA200.7	
Potassium*	<10.5	10.5	50.0	mg/L	50	B711172	JDA	22-Nov-17	EPA200.7	
Sodium*	123	8.57	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: #7

Project Manager: BEN DONAHUE

Fax To:

Reported: 28-Nov-17 18:13

FRESH WATER H703206-03 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al 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	1.52	5.00	mg/L	50	B711172	JDA	22-Nov-17	ETA200.7	
Magnesium*	25.6	3.77	5.00	mg/L	50	B711172	JDA	22-Nov-17	EPA200.7	
Potassium*	<10.5	10.5	50.0	mg/L	50	B711172	JDA	22-Nov-17	EPA200.7	
Sodium*	130	8.57	50.0	nig/L	50	B711172	JDA	22-Nov-17	EPA200.7	

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ETZ WATER STATION

PO BOX 6056 HOBBS NM, 88241 Project: SCHUBERT

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Project Number: #7

Project Manager: BEN DONAHUE

Fax To:

Reported:

28-Nov-17 18:13

Inorganic Compounds - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	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/L							
.CS (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			
CS 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: 1	6-Nov-17	Analyzed: I	7-Nov-17			
FDS	ND	5.00	mg/L							
CS (7111608-BS1)				Prepared: 1	6-Nov-17	Analyzed: 1	7-Nov-17			
TDS	228	5.00	mg/l.	213		107	80-120			,
Ouplicate (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				www.						
LCS (7111701-BS1)				Prepared &	Analyzed	16-Nov-17				
pH	6.97		pH Units	7.00		99.6	90-110			
Conductivity	507		uS/cm	500		101	80-120			

Cardinal Laboratories

*=Accredited Analyte

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Celeg T. Frence



ETZ WATER STATION PO BOX 6056 Project: SCHUBERT

Reported:

PO BOX 6056

Project Number: #7

28-Nov-17 18:13

HOBBS NM, 88241

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 7111701 - General Prep - Wet Chem										
Duplicate (7111701-DUP1)	Soi	urce: H703206	-01	Prepared &	Analyzed:	16-Nov-17				
pH	7.07	0.100	pH Units		7.06			0.142	20	
Conductivity	501000	1.00	uS/cm		494000			1.46	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 &	Analyzed:	20-Nov-17				
Chłoride	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				
Sulfate	ND	100	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 &	Analyzed:	22-Nov-17				
Sulfate	23.6	10.0	mg/L	20.0		118	80-120	1.79	20	

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ETZ WATER STATION

Project: SCHUBERT

Reported:

PO BOX 6056

Project Number: #7

28-Nov-17 18:13

HOBBS NM, 88241

Project Manager: BEN DONAHUE

Fax To:

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

Blank (B711172-BLK1)				Prepared: 20-No	v-17 Analyzed:	22 Nov 17			
	N. 175			Frepared, 20-140	V-17 Allalyzed.	22-140V-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 (B711172-BS1)				Prepared: 20-No	v-17 Analyzed:	22-Nov-17			
Magnesium	20.8	0.100	mg/L	20.0	104	85-115			
Potassium	8.07	1.00	mg/L	8.00	101	85-115			
Sodium	6.68	1.00	mg/L	6.48	103	85-115			
Calcium	4.23	0.100	mg/L	4.00	106	85-115			
LCS Dup (B711172-BSD1)				Prepared: 20-No	v-17 Analyzed:	22-Nov-17			
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	
Magnesium	20.8	0.100	ing/L	20.0	104	85-115	0.0742	20	

Cardinal Laboratories *=Accredited Analyte

any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage indusing, without limitation, business interruptions, loss of use, or loss of use, or loss of use, or loss of profits incurred by client, its substriaries, affiliates or successors arising out of or related to the performance of the services benevinder by Cardinal, regardless of whether suc claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Clary I street



ND

Notes and Definitions

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

Analyte NOT DETECTED at or above the reporting limit

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Celegit Keens -



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: ET3 Worker Station	BILL TO	ANALYSIS REQUEST
Project Manager: Ben Donahue	P.O. #:	
Address:	Company:	
City: State: Zip:	Attn:	
Phone #: 515 343 3194 Fax #:	Address:	
Project #: Project Owner:	City:	
Project Name: Schwaert = 7		
Project Location:	Phone #:	
Sampler Name: Ben Benance	Fax #:	
FOR LAB USE ONLY . MATRIX	PRESERV. SAMPLING .	
Lab I.D. Sample I.D. H103216 Soll Brine Water Soll Bresh Water Soll Bresh Water	ACID/BASE. ACID/BASE. ICE / COOL OTHER: CALLO	
PLEASE NOTE: Liability and Damages: Cardinal's klability and client's exclusive remedy for any claim anking whether based in cor analyses. All claims including those for negligance and any other cause whatsoever shall be deemed welved unless reads in writing service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation business interruption	and received by Cerdinal within 30 days after completion of the applicable ors loss of use or loss of profits incurred by client its subsidianes.	
Relinquished By: Relinquished By: Relinquished By: Date: Reserved By: Received By:	Phone Result: Yes Fax Result: Yes REMARKS:	No Add'I Phone #: No Add'I Fax #: Saryon Schubes @ gmail com

CHECKED BY:

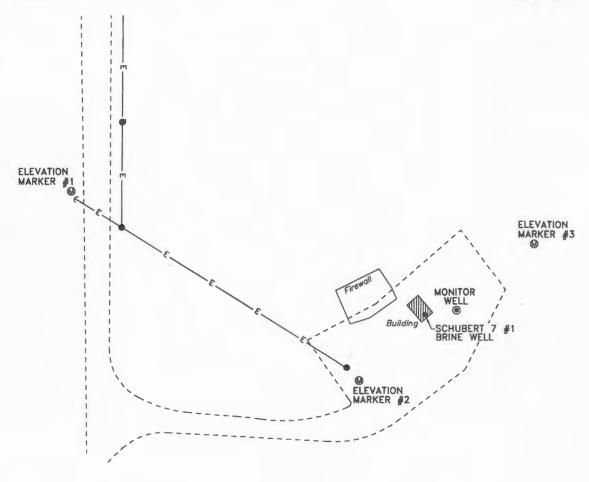
10. 47

Sample Condition
Cool Intact
Yes Yes
No No

Delivered By: (Circle One) 0.32

Sampler - UPS - Bus - Other:

⁺ Cardinal cannot accent verbal channes Please fav written channes to (575) 303-2328



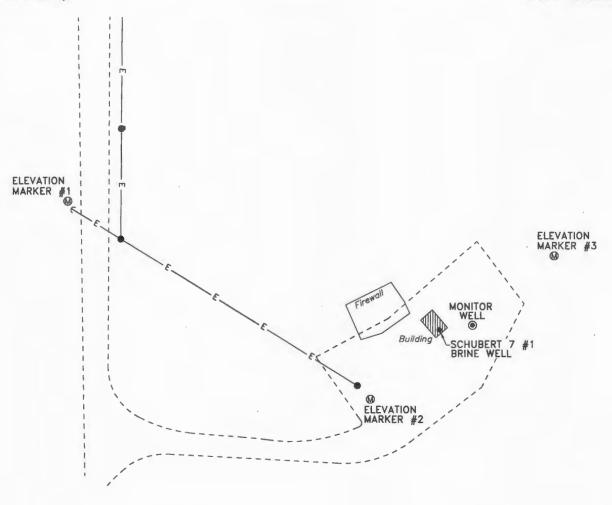
ELEVATION MARKER #4

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

WELL	NORTHING	EASTING	LATITUDE	LONGITUDE	ELEVA TION
EM-1	611304.81	925484.92	32'40'27.52"	103°05'05.71"	3591.65
EM-2	611100.65	925800.11	32'40'25.46"	103'05'02.05"	3586.37
EM-3	611248.41	925991.42	32'40'26.90"	103'04'59.79"	3586.23
EM-4	610926.15	925561.84	32'40'23.76"	103°05'04.86"	3586.94

REVISION #	DATE	DESCRIPTION
1	SEPT. 9, 2015	ORIGINAL SURVEY
2	DEC. 15, 2015	RESURVEY-NO CHANGE IN ELEVATIONS
3	APRIL 12, 2016	RESURVEY-NO CHANGE IN ELEVATIONS
4	JULY 26, 2016	RESURVEY-NO CHANGE IN ELEVATIONS
5	OCTOBER 27, 2016	RESURVEY-NO CHANGE IN ELEVATIONS
6	February 6, 2017	RESURVEY-NO CHANGE IN ELEVATIONS
7	May 11, 2017	RESURVEY-NO CHANGE IN ELEVATIONS
8	AUGUST 30, 2017	RESURVEY-NO CHANGE IN ELEVATIONS
9	JANUARY 10, 2018	RESURVEY-NO CHANGE IN ELEVATIONS





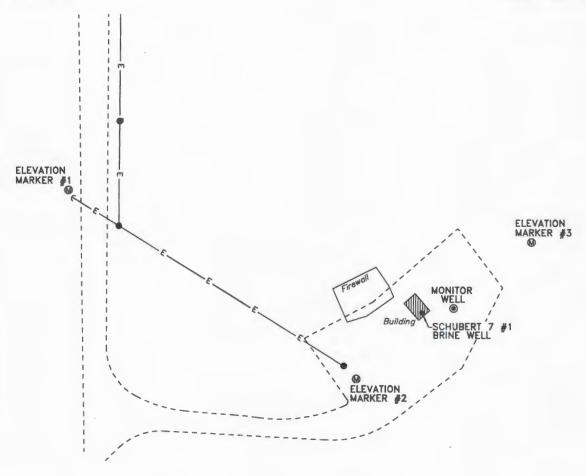
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9	JANUARY 10, 2018	RESURVEY-NO CHANGE ELEVATIONS
10	MAY 1, 2018	RESURVEY-NO CHANGE IN ELEVATIONS
,1,1	SEPTEMBER 5, 2018	RESURVEY -NO CHANGE IN ELEVATIONS





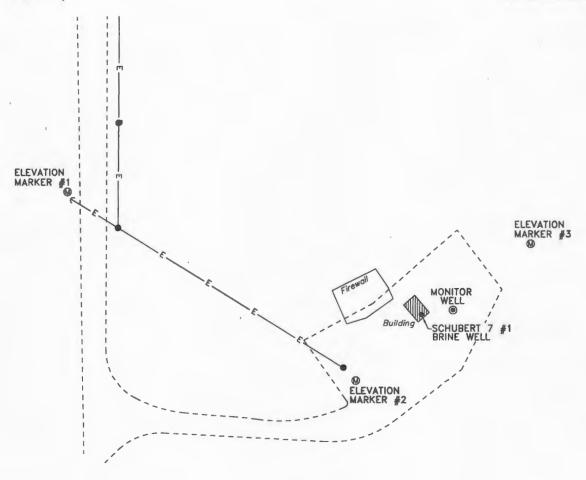
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10	MAY 1, 2018	RESURVEY-NO CHANGE IN ELEVATIONS





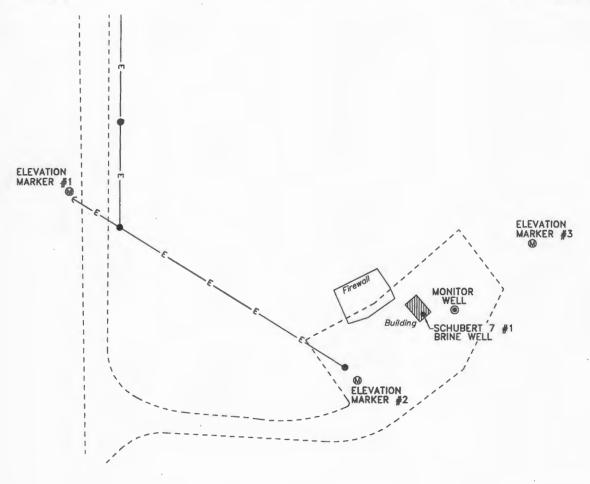
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9	JANUARY 10, 2818	RESURVEY-NO CHANGE IN ELEVATIONS
10	MAY 1, 2018	RESURVEY-NO CHANGE IN ELEV.'A TIONS
11	SEPTENBER 5, 2018	RESURVEY-NO CHANGE IN ELEV. ATIONS



Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD

Sent: Friday, May 4, 2018 8:50 AM

To: 'Gary Schubert'

Cc: Griswold, Jim, EMNRD; 'David Alvarado'

Subject: RE: BW-31 & BW-36

Gary:

Good morning. The New Mexico Oil Conservation Division (OCD) has received documents from Mr. David Alvarado including applications for renewal for both BWs 31 and 36. OCD believes the submittal for BW-36 was unnecessary, as the DP does not expired until 9/30/2021, and could be the records package submitted to meet OCD's May 4, 2018 records request deadline? OCD requires the \$100 filing fee for BW-31 in order to begin reviewing the submittal, since it was not submitted or has not to my knowledge been received by OCD.

Yes, OCD received information from Mr. Alvarado that may be added to the administrative record by COB today for our review. I will make sure this new info. is also added to the records for final review.

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")

From: Gary Schubert <garymschubert@gmail.com>

Sent: Friday, May 4, 2018 8:25 AM

To: Chavez, Carl J, EMNRD < CarlJ.Chavez@state.nm.us> **Cc:** Griswold, Jim, EMNRD < Jim.Griswold@state.nm.us>

Subject: BW-31 & BW-36

Carl,

Please see monthly volume reports on the above mentioned wells for the first four months of 2018.

Also as you are aware I have engaged David Alvarado review the files of both wells and scrutinize same to be sure we are in total compliance with all reporting, etc. You have recently received his reports to you regarding that and to my knowledge all information is up to date including the renewal application on BW-31 which is set to renew in September. If you are aware of any items that have been mistakenly omitted please let David or myself know and we will immediately get that information to you.

Thanks,

Gary

--

Gary M. Schubert

Chavez, Carl J, EMNRD

Gary M. Schubert

From:	Gary Schubert < garymschubert@gmail.com>
Sent:	Friday, May 4, 2018 8:25 AM
То:	Chavez, Carl J, EMNRD
Cc:	Griswold, Jim, EMNRD
Subject:	BW-31 & BW-36
Attachments:	.pdf05042018_00000.pdf
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Gary	

SCHUBERT 7 – WELL # 1

Year 2018

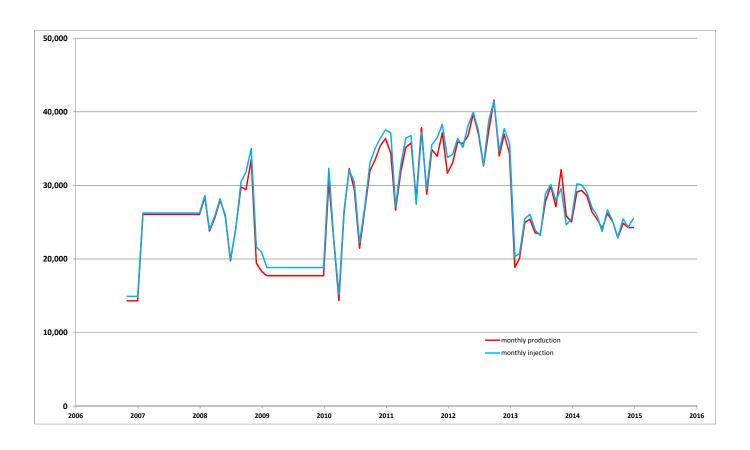
MONTH	BRINE PRODUCTION (BY Meter)	FRESH WATER INJECTED (By Meter)	
January	25,912	25,981	
February	23,395	22,926	
March	9,552	9,402	
April	11,771	11,674	
May	,	11,071	
June			
July			
August			
September			
October			
November			
December			

BW – 31 SCHUBERT 7 – WELL # 1

YEAR 2013

MONTH	BRINE PRODUCTION (BY Motor)	FRESH WATER INJECTED		
	(BY Meter)	(By Meter)		
January	18,870	20,333		
February	20,100	20,714		
March	24,960	25,460	•	
April	25,410	26,048		
May	23,530	23,910		
June	23,400	23,190		
July	27,820	28,862		
August	29,900	30,119		
September	27,110	27,919		
October	,	,		
November				
December				

Total



			monthly	monthly	annual	annual	total historic
year	month	date	production	injection	production	injection	production
2006	Oct	10/31/06	14317	14933			
	Nov	11/30/06	14317	14933			
	Dec	12/31/06	14317	14933	42950	44800	
2007	Jan	1/31/07	26067	26250			
	Feb	2/28/07	26067	26250			
	Mar	3/31/07	26067	26250			
	Apr	4/30/07	26067	26250			
	May	5/31/07	26067	26250			
	Jun	6/30/07	26067	26250			
	Jul	7/31/07	26067	26250			
	Aug	8/31/07	26067	26250			
	Sep	9/30/07	26067	26250			
	Oct	10/31/07	26067	26250			
	Nov	11/30/07	26067	26250			
	Dec	12/31/07	26067	26250	312800	315000	
2008	Jan	1/31/08	28370	28600			
	Feb	2/28/08	23800	24000			
	Mar	3/31/08	25640	25900			
	Apr	4/30/08	27980	28200			
	May	5/31/08	25890	25700			
	Jun	6/30/08	19770	19900			
	Jul	7/31/08	24100	24000			
	Aug	8/31/08	29810	30500			
	Sep	9/30/08	29400	31800			
	Oct	10/31/08	33500	35000			
	Nov	11/30/08	19430	21600			
	Dec	12/31/08	18300	20900	305990	316100	
2009	Jan	1/31/09	17732	18838			
	Feb	2/28/09	17732	18838			
	Mar	3/31/09	17732	18838			
	Apr	4/30/09	17732	18838			
	May	5/31/09	17732	18838			
	Jun	6/30/09	17732	18838			
	Jul	7/31/09	17732	18838			
	Aug	8/31/09	17732	18838			
	Sep	9/30/09	17732	18838			
	Oct	10/31/09	17732	18838			
	Nov	11/30/09	17732	18838			
	Dec	12/31/09	17732	18838	212779	226058	
2010	Jan	1/31/10	30568	32311			
	Feb	2/28/10	22730	22921			
	Mar	3/31/10	14360	15169			
	Apr	4/30/10	26238	26616			
	May	5/31/10	32273	32066			

	Jun	6/30/10	29490	30433		
	Jul	7/31/10	21476	22216		
	Aug	8/31/10	26778	27145		
	Sep	9/30/10	31989	33038		
	Oct	10/31/10	33476	35023		
	Nov	11/30/10	35402	36404		
	Dec	12/31/10	36354	37545	341134	350887
2011	Jan	1/31/11	34390	37121		
	Feb	2/28/11	26653	27131		
	Mar	3/31/11	31870	32821		
	Apr	4/30/11	35172	36426		
	May	5/31/11	35766	36794		
	Jun	6/30/11	28147	27429		
	Jul	7/31/11	37842	37155		
	Aug	8/31/11	28805	29498		
	Sep	9/30/11	34852	35519		
	Oct	10/31/11	33969	36438		
	Nov	11/30/11	37140	38305		
	Dec	12/31/11	31672	33800	396278	408437
2012		1/31/2012	33081	34225		
	Feb	2/29/2012	35895	36376		
	Mar	3/31/2012	35674	35190		
	Apr	4/30/12	36731	38109		
	May	5/31/12	39746	39940		
	Jun	6/30/12	37005	37479		
	Jul	7/31/12	32640	32729		
	Aug	8/31/12	37467	38874		
	Sep	9/30/12	41586	41448		
	Oct	10/31/12	33998	34657		
	Nov	11/30/12	36936	37710		
	Dec	12/31/12	34281	35690	435040	442427
2013		1/31/2013	18870	20333		
	Feb	2/28/2013	20100	20714		
	Mar	3/31/2013	24960	25460		
	Apr	4/30/13	25410	26048		
	May	5/31/13	23530	23910		
	Jun	6/30/13	23400	23190		
	Jul	7/31/13	27820	28862		
	Aug	8/31/13	29900	30119		
	Sep	9/30/13	27110	27919		
	Oct	10/31/13	32134	29557		
	Nov	11/30/13	25865	24643		
	Dec	12/31/13	25037	25510	304136	306265
2014		1/31/2014	29097	30200	551250	230203
	Feb	2/28/2014	29322	30100		
	Mar	3/31/2014	28619	29100		
	Apr	4/30/14	26417	27017		
	, ,b,	7, 30, 17	2041/	2,01/		

May	5/31/14	25381	25876		
Jun	6/30/14	24195	23755		
Jul	7/31/14	26167	26657		
Aug	8/31/14	25077	25138		
Sep	9/30/14	22883	22907		
Oct	10/31/14	24867	25436		
Nov	11/30/14	24267	24321		
Dec	12/31/14	24276	25500	310568	316007