			Water Well Sampling Table		
Water Well ID	OSE Status	Owner	Available Contact Information	Use	Notes
L-12029-POD1	Active	MURTY EUBANKS	5709 W. STILES, HOBBS, NM 88240	Domestic	Inactive, per field visit on 03/27/2024
L-03181	Plugged	HUMBLE OIL AND REFINING CO.	BOX 1287, HOBBS, NM	Prospecting	Doesn't meet sampling criteria.
L-03208	Plugged	OSCAR BOURG DRLG. CO.	C/O O.R. MUSSLEWHITE BOX 56 HOBBS, NM	Prospecting	Doesn't meet sampling criteria.
L-03234	Plugged	MAKIN DRILLING COMPANY	BOX 1628, HOBBS, NM	Prospecting	Doesn't meet sampling criteria.
L-03403	Plugged	OSCAR BOURG DRILLING COMPANY	C/O O.R. MUSSLEWHITE BOX 56 HOBBS, NM	Prospecting	Doesn't meet sampling criteria.
L-06125-POD1	Active	OXY USA, INC.	6 DESTA DRIVE, MIDLAND, TX 79710 915-685-5600	Commercial	Doesn't meet sampling criteria.
L-05466	Active	HARRY HUSTON	P.O. BOX 1082, HOBBS, NM	Domestic	Inactive, per field visit on 03/27/2024
L-01752	Active	HARRY HUSTON	BOX 1082, HOBBS, NM	Irrigationn	Sample collected 3/27/2024
L-06814	Capped	MORAN OIL PROD & DILLING CORP	BOX 1919, HOBBS, NM 88240	Exploration	Doesn't meet sampling criteria.
Notes:	-			-	

Water Well Sampling Narrative

XI. Groundwater Wells. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

Based on data obtained from the New Mexico Office of the State Engineer (OSE), a total of 9 groundwater wells are located within 1 mile of the proposed SWD location. Status and use information provided in OSE data indicated that only three water wells may meet C-108 sampling criteria; however, a field visit conducted on 3/27/2024 indicated that two of those water wells are no longer active and, therefore, does not meet the C-108 sampling criteria. During the field visit, it was observed that water well L-01752 was active. A sample was collected and the associated sampling results are attached.





April 11, 2024

NATE ALLEMAN ACE ENERGY ADVISORS 501 E. FRANK PHILLIPS BLVD. SUITE 201 BARTLESVILLE, OK 74003

RE: HEISMAN

Enclosed are the results of analyses for samples received by the laboratory on 03/27/24 12:26.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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)

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

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



H241597-03

27-Mar-24 12:26

26-Mar-24 17:20

Analytical Results For:

	ACE ENERGY ADVISORS 501 E. FRANK PHILLIPS BLVD. SUITE 201 3ARTLESVILLE OK, 74003		HEISMAN NONE GIVEN NATE ALLEMAN	Reported: 11-Apr-24 11:31
Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
L - 01752	H241597-01	Water	26-Mar-24 18:30	27-Mar-24 12:26
L - 01610	H241597-02	Water	26-Mar-24 17:45	27-Mar-24 12:26

Water

Cardinal Laboratories

L - 01611

*=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



332

184

< 2.00

Analytical Results For:

ACE ENERGY ADVISORS 501 E. FRANK PHILLIPS B BARTLESVILLE OK, 74003		Project: HEISMAN Reported:)1 Project Number: NONE GIVEN 11-Apr-24 11:31 Project Manager: NATE ALLEMAN Fax To:								
				L - 01752						
			H241	1597-01 (Wat	er)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardi	inal Laborato	ories					
Inorganic Compounds										
Alkalinity, Bicarbonate	224		5.00	mg/L	1	4031332	AC	28-Mar-24	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	4031332	AC	28-Mar-24	310.1	
Chloride*	44.0		4.00	mg/L	1	4032702	AC	28-Mar-24	4500-Cl-B	
Conductivity*	598		1.00	umhos/cm @ 25°C	1	4032803	AC	28-Mar-24	120.1	
pH*	7.39		0.100	pH Units	1	4032803	AC	28-Mar-24	150.1	
Temperature °C	18.9			pH Units	1	4032803	AC	28-Mar-24	150.1	
Resistivity	16.7			Ohms/m	1	4032803	AC	28-Mar-24	120.1	
Sulfate*	48.0		10.0	mg/L	1	4040105	AC	01-Apr-24	375.4	

Green Analytical Laboratories

mg/L

mg/L

mg/L

5.00 4.00

2.00

1

1

1

4040106

4031332

4032832

AC

AC

AC

02-Apr-24

28-Mar-24

02-Apr-24

160.1

310.1

160.2

Total Recoverable Metals b	y ICP (E200.7)								
Barium*	0.095	0.050	mg/L	1	B240759	AES	09-Apr-24	EPA200.7	
Calcium*	60.6	0.200	mg/L	1	B240759	AES	09-Apr-24	EPA200.7	
Hardness as CaCO3	190	0.911	mg/L	1	[CALC]	AES	09-Apr-24	2340 B	
Iron*	< 0.050	0.050	mg/L	1	B240759	AWG	10-Apr-24	EPA200.7	
Magnesium*	9.34	0.100	mg/L	1	B240759	AES	09-Apr-24	EPA200.7	
Potassium*	2.48	1.00	mg/L	1	B240759	AES	09-Apr-24	EPA200.7	
Sodium*	39.8	1.00	mg/L	1	B240759	AES	09-Apr-24	EPA200.7	
Strontium*	0.557	0.100	mg/L	1	B240759	AES	09-Apr-24	EPA200.7	

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Alkalinity, Total*

TDS*

TSS*

*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ACE ENERGY ADVISORS 501 E. FRANK PHILLIPS B BARTLESVILLE OK, 74003		Project: HEISMAN Project Number: NONE GIVEN Project Manager: NATE ALLEMAN Fax To:					Reported: 11-Apr-24 11:31			
			1124	L - 01610)					
			H24	1597-02 (Wat	er)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Card	inal Laborato	ories					
Inorganic Compounds										
Alkalinity, Bicarbonate	215		5.00	mg/L	1	4031332	AC	28-Mar-24	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	4031332	AC	28-Mar-24	310.1	
Chloride*	40.0		4.00	mg/L	1	4032702	AC	28-Mar-24	4500-Cl-B	
Conductivity*	546		1.00	umhos/cm @ 25°C	1	4032803	AC	28-Mar-24	120.1	
pH*	7.51		0.100	pH Units	1	4032803	AC	28-Mar-24	150.1	
Temperature °C	18.8			pH Units	1	4032803	AC	28-Mar-24	150.1	
Resistivity	18.3			Ohms/m	1	4032803	AC	28-Mar-24	120.1	
Sulfate*	50.5		10.0	mg/L	1	4040105	AC	01-Apr-24	375.4	
TDS*	338		5.00	mg/L	1	4040106	AC	02-Apr-24	160.1	
Alkalinity, Total*	176		4.00	mg/L	1	4031332	AC	28-Mar-24	310.1	
TSS*	<2.00		2.00	mg/L	1	4032832	AC	02-Apr-24	160.2	
			Green An	alytical Labo	ratories					
Total Recoverable Metals by	ICP (E200.7)									
Barium*	0.076		0.050	mg/L	1	B240759	AES	09-Apr-24	EPA200.7	

Barium*	0.076	0.050	mg/L	1	B240759	AES	09-Apr-24	EPA200.7
Calcium*	61.8	0.200	mg/L	1	B240759	AES	09-Apr-24	EPA200.7
Hardness as CaCO3	187	0.911	mg/L	1	[CALC]	AES	09-Apr-24	2340 B
Iron*	0.054	0.050	mg/L	1	B240759	AWG	10-Apr-24	EPA200.7
Magnesium*	7.83	0.100	mg/L	1	B240759	AES	09-Apr-24	EPA200.7
Potassium*	2.26	1.00	mg/L	1	B240759	AES	09-Apr-24	EPA200.7
Sodium*	31.9	1.00	mg/L	1	B240759	AES	09-Apr-24	EPA200.7
Strontium*	0.482	0.100	mg/L	1	B240759	AES	09-Apr-24	EPA200.7

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



AES

AWG

AES

AES

AES

AES

09-Apr-24

10-Apr-24

09-Apr-24

09-Apr-24

09-Apr-24

09-Apr-24

2340 B

EPA200.7

EPA200.7

EPA200.7

EPA200.7

EPA200.7

Analytical Results For:

ACE ENERGY ADVISORS 501 E. FRANK PHILLIPS B BARTLESVILLE OK, 74003			Project: HEISMAN Project Number: NONE GIVEN Project Manager: NATE ALLEMAN Fax To:						Reported: 11-Apr-24 11:31			
			H24	L - 01611 1597-03 (Wat	er)							
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes		
			Cardi	inal Laborato	ories							
Inorganic Compounds												
Alkalinity, Bicarbonate	259		5.00	mg/L	1	4031332	AC	28-Mar-24	310.1			
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	4031332	AC	28-Mar-24	310.1			
Chloride*	92.0		4.00	mg/L	1	4032702	AC	28-Mar-24	4500-Cl-B			
Conductivity*	884		1.00	umhos/cm @ 25°C	1	4032803	AC	28-Mar-24	120.1			
pH*	7.23		0.100	pH Units	1	4032803	AC	28-Mar-24	150.1			
Temperature °C	18.8			pH Units	1	4032803	AC	28-Mar-24	150.1			
Resistivity	11.3			Ohms/m	1	4032803	AC	28-Mar-24	120.1			
Sulfate*	160		25.0	mg/L	2.5	4040105	AC	01-Apr-24	375.4			
TDS*	530		5.00	mg/L	1	4040106	AC	02-Apr-24	160.1			
Alkalinity, Total*	212		4.00	mg/L	1	4031332	AC	28-Mar-24	310.1			
TSS*	<2.00		2.00	mg/L	1	4032832	AC	02-Apr-24	160.2			
			Green An	alytical Labo	oratories							
Total Recoverable Metals by	ICP (E200.7)											
Barium*	0.073		0.050	mg/L	1	B240759	AES	09-Apr-24	EPA200.7			
Calcium*	88.7		0.200	mg/L	1	B240759	AES	09-Apr-24	EPA200.7			

Sodium*	50.9	1.00	mg/L	1	B240759
Strontium*	0.894	0.100	mg/L	1	B240759

283

< 0.050

14.9

3.29

0.911

0.050

0.100

1.00

Cardinal Laboratories

Magnesium*

Potassium*

Iron*

Hardness as CaCO3

*=Accredited Analyte

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mg/L

mg/L

mg/L

mg/L

1

1

1

1

[CALC]

B240759

B240759

B240759

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Page 8 of 14

Analytical Results For:

ACE ENERGY ADVISORS 501 E. FRANK PHILLIPS BLVD. SUITE 201 BARTLESVILLE OK, 74003	Project: Project Number: Project Manager: Fax To:	NATE ALLEMAN	Reported: 11-Apr-24 11:31
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Inorganic Compounds - Quality Control

Cardinal Laboratories

Aucher	Dlt	Reporting	T.L.: An	Spike	Source	0/DEC	%REC	DDD	RPD Limit	Natas
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4031332 - General Prep - Wet Chem										
Blank (4031332-BLK1)				Prepared &	Analyzed:	13-Mar-24				
Alkalinity, Carbonate	ND	1.00	mg/L							
Alkalinity, Bicarbonate	5.00	5.00	mg/L							
Alkalinity, Total	4.00	4.00	mg/L							
LCS (4031332-BS1)				Prepared &	Analyzed:	13-Mar-24				
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 (4031332-BSD1)				Prepared &	Analyzed:	13-Mar-24				
Alkalinity, Carbonate	ND	2.50	mg/L				80-120		20	
Alkalinity, Bicarbonate	330	12.5	mg/L				80-120	3.86	20	
Alkalinity, Total	270	10.0	mg/L	250		108	80-120	3.77	20	
Batch 4032702 - General Prep - Wet Chem										
Blank (4032702-BLK1)				Prepared &	Analyzed:	27-Mar-24				
Chloride	ND	4.00	mg/L							
LCS (4032702-BS1)				Prepared &	Analyzed:	27-Mar-24				
Chloride	100	4.00	mg/L	100		100	80-120			
LCS Dup (4032702-BSD1)				Prepared &	Analyzed:	27-Mar-24				
Chloride	104	4.00	mg/L	100		104	80-120	3.92	20	
Batch 4032803 - General Prep - Wet Chem										
LCS (4032803-BS1)				Prepared &	Analyzed:	28-Mar-24				
pH	7.10		pH Units	7.00		101	90-110			
Conductivity	501		uS/cm	500		100	80-120			

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*=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



ACE ENERGY ADVISORS 501 E. FRANK PHILLIPS BLVD. SUITE 201 BARTLESVILLE OK, 74003		Project N Project Ma		HEISMAN NONE GIVE NATE ALLEN					Reported: Apr-24 11	:31
	Inor	rganic Con Cardi	-	- Quality (oratories	Control					
					6		N/DEC		DDD	
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4032803 - General Prep - Wet Chem										
Duplicate (4032803-DUP1)	Sou	rce: H241596	-01	Prepared &	Analyzed:	28-Mar-24				
Conductivity	3470	1.00	umhos/cm @ 25°C	1	3350			3.52	20	
рН	7.08	0.100	pH Units		6.97			1.57	20	
Resistivity	2.88		Ohms/m		2.99			3.52	20	
Temperature °C	19.0		pH Units		18.9			0.528	200	
Batch 4032832 - Filtration										
Blank (4032832-BLK1)				Prepared &	Analyzed:	02-Apr-24				
TSS	ND	2.00	mg/L							
Duplicate (4032832-DUP1)	Sou	rce: H241570	-02	Prepared &	Analyzed:	02-Apr-24				
TSS	ND	2.00	mg/L		ND				52.7	
Batch 4040105 - General Prep - Wet Chem										
Blank (4040105-BLK1)				Prepared &	Analyzed:	01-Apr-24				
Sulfate	ND	10.0	mg/L							
LCS (4040105-BS1)				Prepared &	Analyzed:	01-Apr-24				
Sulfate	18.9	10.0	mg/L	20.0		94.4	80-120			
LCS Dup (4040105-BSD1)				Prepared &	Analyzed:	01-Apr-24				
Sulfate	17.5	10.0	mg/L	20.0		87.4	80-120	7.76	20	
Batch 4040106 - Filtration										
Blank (4040106-BLK1)				Prepared: ()1-Apr-24 A	analyzed: 02	-Apr-24			
TDS	ND	5.00	mg/L							

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

ACE ENERGY ADVISORS 501 E. FRANK PHILLIPS BLVD. SUITE 201 BARTLESVILLE OK, 74003		Project Nu Project Ma	umber:	HEISMAN NONE GIVEI NATE ALLEN					Reported: -Apr-24 11	:31
Inorganic Compounds - Quality Control Cardinal Laboratories										
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4040106 - Filtration										
LCS (4040106-BS1)				Prepared: 0	01-Apr-24 A					
TDS	896		mg/L	1000		89.6	80-120			
Duplicate (4040106-DUP1)	Sou	rce: H241596-	02	Prepared: 01-Apr-24 Analyzed: 02-Apr-24						
TDS	599	5.00	mg/L		631			5.20	20	

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*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

ACE ENERGY ADVISORS 501 E. FRANK PHILLIPS BLVD. SUITE 201 BARTLESVILLE OK, 74003	Project: Project Number: Project Manager: Fax To:		Reported: 11-Apr-24 11:31
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Total Recoverable Metals by ICP (E200.7) - Quality Control

Green Analytical Laboratories

		Denertie		C 11	C		0/DEC		DDD	
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Datah D240750 Tatal Dagayanahla bu ICD										
Batch B240759 - Total Recoverable by ICP										
Blank (B240759-BLK1)				Prepared: (03-Apr-24 A	nalyzed: 08	8-Apr-24			
Magnesium	ND	0.100	mg/L							
Calcium	ND	0.200	mg/L							
Strontium	ND	0.100	mg/L							
Iron	ND	0.050	mg/L							
Sodium	ND	1.00	mg/L							
Potassium	ND	1.00	mg/L							
Barium	ND	0.050	mg/L							
LCS (B240759-BS1)				Prepared: ()3-Apr-24 A	nalyzed: 08	8-Apr-24			
Strontium	1.96	0.100	mg/L	2.00		98.2	85-115			
Sodium	1.68	1.00	mg/L	1.62		104	85-115			
Potassium	3.93	1.00	mg/L	4.00		98.3	85-115			
Barium	0.968	0.050	mg/L	1.00		96.8	85-115			
Iron	1.85	0.050	mg/L	2.00		92.6	85-115			
Calcium	1.91	0.200	mg/L	2.00		95.4	85-115			
Magnesium	10.1	0.100	mg/L	10.0		101	85-115			
LCS Dup (B240759-BSD1)				Prepared: ()3-Apr-24 A	nalyzed: 08	8-Apr-24			
Magnesium	10.0	0.100	mg/L	10.0		100	85-115	0.699	20	
Strontium	1.94	0.100	mg/L	2.00		97.2	85-115	0.998	20	
Iron	1.83	0.050	mg/L	2.00		91.4	85-115	1.36	20	
Potassium	3.92	1.00	mg/L	4.00		98.1	85-115	0.239	20	
Calcium	1.90	0.200	mg/L	2.00		94.8	85-115	0.702	20	
Sodium	1.68	1.00	mg/L	1.62		104	85-115	0.254	20	
Barium	0.975	0.050	mg/L	1.00		97.5	85-115	0.721	20	

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*=Accredited Analyte

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Celey 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 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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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Received by OCD: 5/9/2024 10:19:44 AM

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

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District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Operator:	OGRID:
Pilot Water Solutions SWD LLC	331374
20 Greenway Plaza, Suite 500	Action Number:
Houston, TX 77046	342537
	Action Type:
	[IM-SD] Admin Order Support Doc (ENG) (IM-AAO)

CONDITIONS

Created By		Condition Date
mgebremichael	None	5/9/2024

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Action 342537