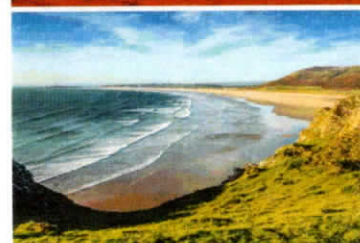


Report to:

John Hampton Jr.



5796 U.S. Hwy 64  
Farmington, NM 87401

Phone: (505) 632-1881  
Envirotech-inc.com



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

### Epic Energy

Project Name: Candado #2

Work Order: E204105

Job Number: 18012-0006

Received: 4/19/2022

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
4/26/22

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.  
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.  
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.  
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.  
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.  
Envirotech Inc. holds the NM SDWA certification for data reported. (Lab #NM00979)

Date Reported: 4/26/22

John Hampton Jr.  
7415 Main Street  
Farmington, NM 87402



Project Name: Candado #2  
Workorder: E204105  
Date Received: 4/19/2022 4:34:00PM

John Hampton Jr.,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/19/2022 4:34:00PM, under the Project Name: Candado #2.

The analytical test results summarized in this report with the Project Name: Candado #2 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

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**Sample Summary**

Epic Energy	Project Name:	Candado #2	<b>Reported:</b>
7415 Main Street	Project Number:	18012-0006	
Farmington NM, 87402	Project Manager:	John Hampton Jr.	04/26/22 16:12

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Candado #2 Bradenhead	E204105-01A	Aqueous	04/19/22	04/19/22	Poly 500mL
Candado #2 Casing	E204105-02A	Aqueous	04/19/22	04/19/22	Poly 500mL



## Sample Data

Epic Energy	Project Name:	Candado #2	<b>Reported:</b> 4/26/2022 4:12:49PM
7415 Main Street	Project Number:	18012-0006	
Farmington NM, 87402	Project Manager:	John Hampton Jr.	

## Candado #2 Bradenhead

## E204105-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Wet Chem/Gravimetric by SM2540C</b>						
	mg/L	mg/L	Analyst: CS			Batch: 2218018
Total Dissolved Solids	758	10.0	1	04/25/22	04/26/22	
<b>Wet Chemistry by 9040C/4500H+B</b>						
	pH Units	pH Units	Analyst: CS			Batch: 2217033
pH @25°C	9.31		1	04/21/22 08:52	04/21/22 13:09	H5
<b>Wet Chemistry by SM2320B</b>						
	mg/L	mg/L	Analyst: CS			Batch: 2218021
Total Alkalinity (as CaCO <sub>3</sub> at pH 4.5)	164	10.0	1	04/26/22	04/26/22	
<b>Wet Chemistry by 9050A/2510B</b>						
	uS/cm	uS/cm	Analyst: CS			Batch: 2217032
Specific Conductance (@ 25 C)	1480	10.0	1	04/21/22	04/21/22	
<b>Dissolved Metals by EPA 6010C</b>						
	mg/L	mg/L	Analyst: RKS			Batch: 2217035
Calcium	2.37	1.00	1	04/21/22	04/21/22	
Iron	ND	2.00	1	04/21/22	04/21/22	
Magnesium	ND	1.00	1	04/21/22	04/21/22	
Potassium	1.15	1.00	1	04/21/22	04/21/22	
Sodium	269	20.0	10	04/21/22	04/26/22	
Sodium Absorption Ratio (CALC)	48.1		1	04/26/22	04/26/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/L	mg/L	Analyst: CS			Batch: 2217034
Fluoride	1.57	0.250	1	04/21/22	04/21/22	
Chloride	5.92	2.00	1	04/21/22	04/21/22	
Nitrite-N	ND	0.250	1	04/21/22 09:07	04/21/22 12:35	
Nitrate-N	ND	0.250	1	04/21/22 09:07	04/21/22 12:35	
o-Phosphate-P	ND	0.250	1	04/21/22 09:07	04/21/22 12:35	
Sulfate	427	2.00	1	04/21/22	04/21/22	



## Sample Data

Epic Energy	Project Name:	Candado #2	<b>Reported:</b> 4/26/2022 4:12:49PM
7415 Main Street	Project Number:	18012-0006	
Farmington NM, 87402	Project Manager:	John Hampton Jr.	

## Candado #2 Casing

E204105-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Wet Chem/Gravimetric by SM2540C</b>						
	mg/L	mg/L		Analyst: CS		Batch: 2218018
Total Dissolved Solids	747	10.0	1	04/25/22	04/26/22	
<b>Wet Chemistry by 9040C/4500H+B</b>						
	pH Units	pH Units		Analyst: CS		Batch: 2217033
pH @25°C	9.07		1	04/21/22 08:52	04/21/22 13:09	H5
<b>Wet Chemistry by SM2320B</b>						
	mg/L	mg/L		Analyst: CS		Batch: 2218021
Total Alkalinity (as CaCO <sub>3</sub> at pH 4.5)	193	10.0	1	04/26/22	04/26/22	
<b>Wet Chemistry by 9050A/2510B</b>						
	uS/cm	uS/cm		Analyst: CS		Batch: 2217032
Specific Conductance (@ 25 C)	1430	10.0	1	04/21/22	04/21/22	
<b>Dissolved Metals by EPA 6010C</b>						
	mg/L	mg/L		Analyst: RKS		Batch: 2217035
Calcium	5.24	1.00	1	04/21/22	04/21/22	
Iron	ND	2.00	1	04/21/22	04/21/22	
Magnesium	ND	1.00	1	04/21/22	04/21/22	
Potassium	1.05	1.00	1	04/21/22	04/21/22	
Sodium	261	20.0	10	04/21/22	04/26/22	
Sodium Absorption Ratio (CALC)	31.4		1	04/26/22	04/26/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/L	mg/L		Analyst: CS		Batch: 2217034
Fluoride	1.56	0.250	1	04/21/22	04/21/22	
Chloride	5.79	2.00	1	04/21/22	04/21/22	
Nitrite-N	ND	0.250	1	04/21/22 09:07	04/21/22 12:56	
Nitrate-N	ND	0.250	1	04/21/22 09:07	04/21/22 12:56	
o-Phosphate-P	ND	0.250	1	04/21/22 09:07	04/21/22 12:56	
Sulfate	388	2.00	1	04/21/22	04/21/22	





## QC Summary Data

Epic Energy	Project Name:	Candado #2	Reported:
7415 Main Street	Project Number:	18012-0006	
Farmington NM, 87402	Project Manager:	John Hampton Jr.	4/26/2022 4:12:49PM

## Wet Chem/Gravimetric by SM2540C

Analyst: CS

Analyte	Result mg/L	Reporting Limit mg/L	Spike Level mg/L	Source Result mg/L	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2218018-BLK1)

Prepared: 04/25/22 Analyzed: 04/26/22

Total Dissolved Solids ND 10.0

## LCS (2218018-BS1)

Prepared: 04/25/22 Analyzed: 04/26/22

Total Dissolved Solids 110 10.0 100 110 55-134

## Duplicate (2218018-DUP1)

Source: E204105-02

Prepared: 04/25/22 Analyzed: 04/26/22

Total Dissolved Solids 762 10.0 747 1.99 5



## QC Summary Data

Epic Energy	Project Name:	Candado #2	<b>Reported:</b>
7415 Main Street	Project Number:	18012-0006	
Farmington NM, 87402	Project Manager:	John Hampton Jr.	4/26/2022 4:12:49PM

## Wet Chemistry by 9040C/4500H+B

Analyst: CS

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

## LCS (2217033-BS1)

Prepared: 04/21/22 Analyzed: 04/21/22

pH	8.00	8.00	100	98.75-101.25
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## Duplicate (2217033-DUP1)

Source: E204105-01

Prepared: 04/21/22 Analyzed: 04/21/22

pH	9.34	9.31	0.322	20
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## QC Summary Data

Epic Energy	Project Name:	Candado #2	Reported:
7415 Main Street	Project Number:	18012-0006	
Farmington NM, 87402	Project Manager:	John Hampton Jr.	4/26/2022 4:12:49PM

## Wet Chemistry by SM2320B

Analyst: CS

Analyte	Result mg/L	Reporting Limit mg/L	Spike Level mg/L	Source Result mg/L	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## LCS (2218021-BS1)

Prepared: 04/26/22 Analyzed: 04/26/22

Total Alkalinity (as CaCO <sub>3</sub> at pH 4.5)	248	10.0	250	99.2	70-130
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## Duplicate (2218021-DUP1)

Source: E204081-01

Prepared: 04/26/22 Analyzed: 04/26/22

Total Alkalinity (as CaCO <sub>3</sub> at pH 4.5)	67.0	10.0	62.0	7.75	20
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## QC Summary Data

Epic Energy	Project Name:	Candado #2	Reported:
7415 Main Street	Project Number:	18012-0006	
Farmington NM, 87402	Project Manager:	John Hampton Jr.	4/26/2022 4:12:49PM

## Wet Chemistry by 9050A/2510B

Analyst: CS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	uS/cm	uS/cm	uS/cm	uS/cm	%	%	%	%	

## Blank (2217032-BLK1)

Prepared: 04/21/22 Analyzed: 04/21/22

Specific Conductance (@ 25 C) ND 10.0

## LCS (2217032-BS1)

Prepared: 04/21/22 Analyzed: 04/21/22

Specific Conductance (@ 25 C) 1420 10.0 1410 101 98-102

## Duplicate (2217032-DUP1)

Source: E204105-01

Prepared: 04/21/22 Analyzed: 04/21/22

Specific Conductance (@ 25 C) 1490 10.0 1480 0.538 20



## QC Summary Data

Epic Energy	Project Name:	Candado #2	Reported:
7415 Main Street	Project Number:	18012-0006	
Farmington NM, 87402	Project Manager:	John Hampton Jr.	4/26/2022 4:12:49PM

## Dissolved Metals by EPA 6010C

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/L	mg/L	mg/L	mg/L	%	%	%	%	

## Blank (2217035-BLK1)

Prepared: 04/21/22 Analyzed: 04/21/22

Calcium	ND	1.00
Iron	ND	2.00
Magnesium	ND	1.00
Potassium	ND	1.00
Sodium	ND	2.00

## LCS (2217035-BS1)

Prepared: 04/21/22 Analyzed: 04/21/22

Calcium	49.8	1.00	50.0	99.6	80-120
Iron	103	2.00	100	103	80-120
Magnesium	53.6	1.00	50.0	107	80-120
Potassium	4.88	1.00	5.00	97.5	80-120
Sodium	18.4	2.00	20.0	91.8	80-120

## Matrix Spike (2217035-MS1)

Source: E204107-01

Prepared: 04/21/22 Analyzed: 04/21/22

Calcium	257	10.0	50.0	144	227	75-125	M1
Iron	462	20.0	100	252	210	75-125	M1
Magnesium	106	10.0	50.0	39.9	132	75-125	M1
Potassium	40.5	10.0	5.00	28.7	237	75-125	M4
Sodium	87.3	20.0	20.0	60.2	136	75-125	M1

## Matrix Spike Dup (2217035-MSD1)

Source: E204107-01

Prepared: 04/21/22 Analyzed: 04/21/22

Calcium	204	10.0	50.0	144	121	75-125	22.8	20	R3
Iron	367	20.0	100	252	116	75-125	22.8	20	R3
Magnesium	95.9	10.0	50.0	39.9	112	75-125	9.71	20	
Potassium	32.8	10.0	5.00	28.7	83.0	75-125	21.0	20	R3
Sodium	78.8	20.0	20.0	60.2	92.9	75-125	10.3	20	



## QC Summary Data

Epic Energy	Project Name:	Candado #2	Reported:
7415 Main Street	Project Number:	18012-0006	
Farmington NM, 87402	Project Manager:	John Hampton Jr.	4/26/2022 4:12:49PM

## Anions by EPA 300.0/9056A

Analyst: CS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/L	mg/L	mg/L	mg/L	%	%	%	%	

## Blank (2217034-BLK1)

Prepared: 04/21/22 Analyzed: 04/21/22

Fluoride	ND	0.250
Chloride	ND	2.00
Nitrite-N	ND	0.250
Nitrate-N	ND	0.250
o-Phosphate-P	ND	0.250
Sulfate	ND	2.00

## LCS (2217034-BS1)

Prepared: 04/21/22 Analyzed: 04/21/22

Fluoride	2.61	0.250	2.50	104	90-110
Chloride	24.7	2.00	25.0	98.8	90-110
Nitrite-N	2.58	0.250	2.50	103	90-110
Nitrate-N	2.52	0.250	2.50	101	90-110
o-Phosphate-P	12.4	0.250	12.5	98.9	90-110
Sulfate	24.5	2.00	25.0	97.8	90-110

## Matrix Spike (2217034-MS1)

Source: E204105-02

Prepared: 04/21/22 Analyzed: 04/21/22

Fluoride	4.13	0.250	2.50	1.56	103	80-120
Chloride	30.3	2.00	25.0	5.79	98.1	80-120
Nitrite-N	2.56	0.250	2.50	ND	102	80-120
Nitrate-N	2.52	0.250	2.50	ND	101	80-120
o-Phosphate-P	12.4	0.250	12.5	ND	98.9	80-120
Sulfate	388	2.00	25.0	388	NR	80-120

M2

## Matrix Spike Dup (2217034-MSD1)

Source: E204105-02

Prepared: 04/21/22 Analyzed: 04/21/22

Fluoride	4.14	0.250	2.50	1.56	103	80-120	0.399	20
Chloride	30.3	2.00	25.0	5.79	98.2	80-120	0.0557	20
Nitrite-N	2.54	0.250	2.50	ND	102	80-120	0.612	20
Nitrate-N	2.51	0.250	2.50	ND	101	80-120	0.0398	20
o-Phosphate-P	12.3	0.250	12.5	ND	98.5	80-120	0.404	20
Sulfate	392	2.00	25.0	388	17.0	80-120	1.15	20

M2

## QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



## Definitions and Notes

Epic Energy	Project Name:	Candado #2	
7415 Main Street	Project Number:	18012-0006	<b>Reported:</b>
Farmington NM, 87402	Project Manager:	John Hampton Jr.	04/26/22 16:12

H5	pH is specified to be performed in the field within 15 minutes of sampling. The sample was performed as quickly as possible.
M1	Matrix spike recovery was above acceptance limits. The associated LCS spike recovery was acceptable.
M2	Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
M4	Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
R3	The RPD exceeded the acceptance limit. LCS spike recovery met acceptance criteria.
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



### Project Information

### Chain of Custody

Page 1 of 1

[illegible]



## Envirotech Analytical Laboratory

Printed: 4/20/2022 9:59:29AM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client: Epic Energy	Date Received: 04/19/22 16:34	Work Order ID: E204105
Phone: (505) 327-4892	Date Logged In: 04/20/22 08:56	Logged In By: Caitlin Christian
Email: jdhampton@walsheng.net	Due Date: 04/26/22 17:00 (5 day TAT)	

**Chain of Custody (COC)**

1. Does the sample ID match the COC? Yes
  2. Does the number of samples per sampling site location match the COC? Yes
  3. Were samples dropped off by client or carrier? Yes
  4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
  5. Were all samples received within holding time? Yes
- Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: Cody Paris**Comments/Resolution****Sample Turn Around Time (TAT)**

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

**Sample Cooler**

7. Was a sample cooler received? Yes
  8. If yes, was cooler received in good condition? Yes
  9. Was the sample(s) received intact, i.e., not broken? Yes
  10. Were custody/security seals present? No
  11. If yes, were custody/security seals intact? NA
  12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes
- Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling
13. If no visible ice, record the temperature. Actual sample temperature: 4°C

**Sample Container**

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

**Field Label**

20. Were field sample labels filled out with the minimum information:
 

Sample ID?	Yes
Date/Time Collected?	Yes
Collectors name?	No

**Sample Preservation**

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? Yes

**Multiphase Sample Matrix**

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

**Subcontract Laboratory**

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: na

**Client Instruction**

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

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**District II**  
811 S. First St., Artesia, NM 88210  
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**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS  
  
Action 181174

CONDITIONS

Operator: EPIC ENERGY, L.L.C. 332 Road 3100 Aztec, NM 87410	OGRID: 372834
	Action Number: 181174
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	None	1/31/2023