



30-039-23134

Analytical Report

Report Summary

Client: Epic Energy

Samples Received: 10/25/2019

Job Number: 18012-0006

Work Order: P910174

Project Name/Location: Lindrith #110 E

NMOC

NOV 06 2019

DISTRICT III

Report Reviewed By:

Date: 11/1/19

Walter Hinchman, Laboratory Director



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Envirotech, Inc. holds the Texas TNI certification T104704557-19-2 for the data reported.



Epic Energy
7420 Main Street
Farmington NM, 87402

Project Name: Lindrith #110 E
Project Number: 18012-0006
Project Manager: Vanessa Fields

Reported:
11/01/19 09:56

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Bradenhead Lindrith 110E	P910174-01A	Aqueous	10/24/19	10/25/19	Poly 500mL
Casing 1 Lindrith 110E	P910174-02A	Aqueous	10/24/19	10/25/19	Poly 500mL

WMCO
NOV 06 2019
DISTRICT III

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Epic Energy	Project Name:	Lindrith #110 E	Reported: 11/01/19 09:56
7420 Main Street	Project Number:	18012-0006	
Farmington NM, 87402	Project Manager:	Vanessa Fields	

**Bradenhead Lindrith 110E
P910174-01 (Water)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Wet Chem/Gravimetric

Total Dissolved Solids	4640	10.0	mg/L	1	1944003	10/28/19	10/31/19	SM2540C	
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Dissolved Metals by 6010

Sodium Absorption Ratio	14.0		N/A	1	1944022	10/31/19	10/31/19	[CALC]	
Calcium	429	1.00	mg/L	1	1944012	10/30/19	10/30/19	EPA 6010C	
Iron	ND	2.00	mg/L	1	1944012	10/30/19	10/30/19	EPA 6010C	
Magnesium	ND	1.00	mg/L	1	1944012	10/30/19	10/30/19	EPA 6010C	
Potassium	4.91	1.00	mg/L	1	1944012	10/30/19	10/30/19	EPA 6010C	
Sodium	1050	20.0	mg/L	10	1944012	10/30/19	10/30/19	EPA 6010C	

Anions by 300.0/9056A

Fluoride	ND	2.50	mg/L	10	1943042	10/25/19	10/28/19	EPA 300.0/9056A	
Chloride	ND	20.0	mg/L	10	1943042	10/25/19	10/28/19	EPA 300.0/9056A	
Nitrite-N	ND	2.50	mg/L	10	1943042	10/25/19 17:56	10/28/19 15:19	EPA 300.0/9056A	H4
Nitrate-N	ND	2.50	mg/L	10	1943042	10/25/19 17:56	10/28/19 15:19	EPA 300.0/9056A	H4
o-Phosphate-P	ND	2.50	mg/L	10	1943042	10/25/19 17:56	10/28/19 15:19	EPA 300.0/9056A	H4
Sulfate	3210	20.0	mg/L	10	1943042	10/25/19	10/28/19	EPA 300.0/9056A	

Wet Chemistry

pH @25°C	8.73		pH Units	1	1944002	10/28/19 14:33	10/29/19 17:01	9040C/4500 H+B	H1
Specific Conductance (@ 25 C)	5470	10.0	uS/cm	1	1944014	10/30/19	10/30/19	9050A/2510 B	
Total Alkalinity (as CaCO3 at pH 4.5)	15.8	10.0	mg/L	1	1944033	10/31/19	10/31/19	SM2320B	

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Epic Energy 7420 Main Street Farmington NM, 87402	Project Name: Lindrith #110 E Project Number: 18012-0006 Project Manager: Vanessa Fields	Reported: 11/01/19 09:56
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**Casing 1 Lindrith 110E
P910174-02 (Water)**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Wet Chem/Gravimetric

Total Dissolved Solids	4920	10.0	mg/L	1	1944003	10/28/19	10/31/19	SM2540C	
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Dissolved Metals by 6010

Sodium Absorption Ratio	18.6		N/A	1	1944022	10/31/19	10/31/19	[CALC]	
Calcium	387	1.00	mg/L	1	1944012	10/30/19	10/30/19	EPA 6010C	
Iron	ND	2.00	mg/L	1	1944012	10/30/19	10/30/19	EPA 6010C	
Magnesium	1.33	1.00	mg/L	1	1944012	10/30/19	10/30/19	EPA 6010C	
Potassium	4.95	1.00	mg/L	1	1944012	10/30/19	10/30/19	EPA 6010C	
Sodium	1330	20.0	mg/L	10	1944012	10/30/19	10/30/19	EPA 6010C	

Anions by 300.0/9056A

Fluoride	ND	2.50	mg/L	10	1943042	10/25/19	10/28/19	EPA 300.0/9056A	
Chloride	20.5	20.0	mg/L	10	1943042	10/25/19	10/28/19	EPA 300.0/9056A	
Nitrite-N	ND	2.50	mg/L	10	1943042	10/25/19 17:56	10/28/19 15:42	EPA 300.0/9056A	H4
Nitrate-N	ND	2.50	mg/L	10	1943042	10/25/19 17:56	10/28/19 15:42	EPA 300.0/9056A	H4
o-Phosphate-P	ND	2.50	mg/L	10	1943042	10/25/19 17:56	10/28/19 15:42	EPA 300.0/9056A	H4
Sulfate	3410	20.0	mg/L	10	1943042	10/25/19	10/28/19	EPA 300.0/9056A	

Wet Chemistry

pH @25°C	8.26		pH Units	1	1944002	10/28/19 14:33	10/29/19 17:01	9040C/4500 H+B	H1
Specific Conductance (@ 25 C)	5890	10.0	uS/cm	1	1944014	10/30/19	10/30/19	9050A/2510 B	
Total Alkalinity (as CaCO3 at pH 4.5)	21.8	10.0	mg/L	1	1944033	10/31/19	10/31/19	SM2320B	

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Epic Energy
7420 Main Street
Farmington NM, 87402

Project Name: Lindrith #110 E
Project Number: 18012-0006
Project Manager: Vanessa Fields

Reported:
11/01/19 09:56

Wet Chem/Gravimetric - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1944003 - Wet Chemistry Preparation

Blank (1944003-BLK1)

Prepared: 10/28/19 | Analyzed: 10/31/19 |

Total Dissolved Solids ND 10.0 mg/L

LCS (1944003-BS1)

Prepared: 10/28/19 | Analyzed: 10/31/19 |

Total Dissolved Solids 107 10.0 mg/L 100 107 50-150

Duplicate (1944003-DUP1)

Source: P910174-01

Prepared: 10/28/19 | Analyzed: 10/31/19 |

Total Dissolved Solids 4680 10.0 mg/L 4640 0.923 5

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Project Number: 18012-0006
Project Manager: Vanessa Fields

Reported:
11/01/19 09:56

Dissolved Metals by 6010 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1944012 - Metals Water Hotblock Digestion EPA 3010A/200.2

Blank (1944012-BLK1)

Prepared: 10/30/19 0 Analyzed: 10/30/19 1

Calcium	ND	1.00	mg/L
Iron	ND	2.00	"
Magnesium	ND	1.00	"
Potassium	ND	1.00	"
Sodium	ND	2.00	"

LCS (1944012-BS1)

Prepared: 10/30/19 0 Analyzed: 10/30/19 1

Calcium	46.9	1.00	mg/L	50.0	93.9	80-120
Iron	92.6	2.00	"	100	92.6	80-120
Magnesium	47.3	1.00	"	50.0	94.5	80-120
Potassium	4.97	1.00	"	5.00	99.3	80-120
Sodium	18.0	2.00	"	20.0	90.1	80-120

Matrix Spike (1944012-MS1)

Source: P910140-01

Prepared: 10/30/19 0 Analyzed: 10/30/19 1

Calcium	146	1.00	mg/L	50.0	96.2	98.7	75-125
Iron	107	2.00	"	100	11.1	95.8	75-125
Magnesium	148	1.00	"	50.0	100	96.1	75-125
Potassium	61.1	10.0	"	5.00	52.9	165	75-125
Sodium	3310	20.0	"	20.0	3240	355	75-125

M3
M3

Matrix Spike Dup (1944012-MSD1)

Source: P910140-01

Prepared: 10/30/19 0 Analyzed: 10/30/19 1

Calcium	146	1.00	mg/L	50.0	96.2	99.9	75-125	0.411	20
Iron	110	2.00	"	100	11.1	99.0	75-125	2.95	20
Magnesium	147	1.00	"	50.0	100	93.7	75-125	0.814	20
Potassium	61.0	10.0	"	5.00	52.9	162	75-125	0.278	20
Sodium	3280	20.0	"	20.0	3240	190	75-125	1.00	20

M3
M3

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Epic Energy
7420 Main Street
Farmington NM, 87402

Project Name: Lindrith #110 E
Project Number: 18012-0006
Project Manager: Vanessa Fields

Reported:
11/01/19 09:56

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1943042 - Anion Extraction EPA 300.0/9056A

Blank (1943042-BLK1)

Prepared: 10/25/19 | Analyzed: 10/28/19 |

Fluoride	ND	0.250	mg/L							
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 (1943042-BS1)

Prepared: 10/25/19 | Analyzed: 10/28/19 |

Fluoride	2.55	0.250	mg/L	2.50		102	90-110			
Chloride	25.5	2.00	"	25.0		102	90-110			
Nitrite-N	2.46	0.250	"	2.50		98.5	90-110			
Nitrate-N	2.48	0.250	"	2.50		99.1	90-110			
o-Phosphate-P	12.7	0.250	"	12.5		102	90-110			
Sulfate	25.3	2.00	"	25.0		101	90-110			

LCS Dup (1943042-BSD1)

Prepared: 10/25/19 | Analyzed: 10/28/19 |

Fluoride	2.57	0.250	mg/L	2.50		103	90-110	0.469	20	
Chloride	25.5	2.00	"	25.0		102	90-110	0.0823	20	
Nitrite-N	2.47	0.250	"	2.50		99.0	90-110	0.486	20	
Nitrate-N	2.47	0.250	"	2.50		99.0	90-110	0.162	20	
o-Phosphate-P	12.7	0.250	"	12.5		101	90-110	0.386	20	
Sulfate	25.2	2.00	"	25.0		101	90-110	0.0990	20	

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Project Name: Lindrith #110 E
Project Number: 18012-0006
Project Manager: Vanessa Fields

Reported:
11/01/19 09:56

Wet Chemistry - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1944002 - Wet Chemistry Preparation

LCS (1944002-BS1)

Prepared: 10/28/19 | Analyzed: 10/29/19 |

pH	7.98		pH Units	8.00		99.9	98.75-101.25			
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Duplicate (1944002-DUP1)

Source: P910140-01

Prepared: 10/28/19 | Analyzed: 10/29/19 |

pH	6.68		pH Units	6.65				0.450	20	
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Epic Energy
7420 Main Street
Farmington NM, 87402

Project Name: Lindrith #110 E
Project Number: 18012-0006
Project Manager: Vanessa Fields

Reported:
11/01/19 09:56

Notes and Definitions

- M3 Matrix spike recovery was outside quality control limits due to matrix interference. The associated LCS spike recovery was acceptable.
- H4 Initial analysis was within holding time. Re-analysis was past holding time.
- H1 Sample was received past holding time and analyzed per client request.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- ** Methods marked with ** are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

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Client: <u>EPSC Energy</u>				Report Attention				Lab Use Only				TAT		EPA Program								
Project: <u>Lindeth #110E</u>				Report due by: <u>Standard</u>				Lab WO# <u>P910174</u>		Job Number <u>18042.0006</u>		1D	3D	RCRA	CWA	SDWA						
Project Manager: <u>Vanessa Fields</u>				Attention: <u>Vanessa Fields</u>				Analysis and Method										State				
Address: <u>7415 E. Main Street</u>				Address: <u>7415 E. Main Street</u>																		
City, State, Zip: <u>Farmington NM 87402</u>				City, State, Zip: <u>Farmington NM 87402</u>																		
Phone: <u>505-787-9100</u>				Phone: <u>505-787-9100</u>																		
Email: <u>Vanessa@walsheng.net</u>				Email: <u>Vanessa@walsheng.net</u>																		
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	Cat/Ana						NM	CO	UT	A	
2:03	10/24/19		1	Bradonhead Lindeth 110E	1							X										
2:00	10/24/19		1	Pasing / Lindeth 110E	2							X										
Additional Instructions:																						
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: <u>Sunny McHenry</u>												Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6°C on subsequent days.										
Relinquished by: (Signature) <u>[Signature]</u>		Date	Time	Received by: (Signature) <u>Adrienne</u>		Date	Time	Lab Use Only														
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Received on ice: <u>Y</u> N														
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3														
		Date	Time			Date	Time	AVG Temp °C <u>4</u>														
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other												Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA										
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																						