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Canyon Fuel Company, LLC

Dugout Canyon Mine

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Wellington, Utah 84542

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TO: PRISCILLA BURTON

COMPANY: UDOGM

FROM: Vicky Miller

REMARKS: IML

WASTEROCK AND SUBSOIL ANALYSIS

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DIV. OF OIL, GAS & MINING

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Inter-Mountain Laboratories, Inc.

Report ID: 010417135

Soil Analysis Report

Canyon Fuel Co

Dugout Mine

P.O. Box 1029

Wellington, UT 84542

1673 Terra Avenue  
Sheridan, WY 82801

Page 1 of 3

Client Project ID: Dugout Canyon Mine

Date Received: 12/10/04

Set #0104S17135

Report Date: 12/28/04

Lab Id	Sample Id	pH	Saturation	EC	Calcium	Magnesium	Sodium	SAR	Sand	Silt	Clay	Texture
		a.u.	%	@ 25°C dS/m	meq/L	meq/L	meq/L		%	%	%	
0104S17135	128204 WR	7.2	38.7	1.32	2.76	3.70	4.23	2.35	87.0	7.0	6.0	LOAMY SAND
0104S17136	12804 SS	7.4	28.6	1.14	1.01	0.75	9.37	10.0	32.0	42.0	26.0	LOAM

These results only apply to the samples tested.

Abbreviations for extractants: PE= Saturated Paste Extract, H<sub>2</sub>O<sub>sol</sub>= water soluble, AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate

Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur, Neut. Pot.= Neutralization Potential

Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage

Reviewed By:

Joey Sheeley, Soils Lab Supervisor

## Inter-Mountain Laboratories, Inc.

Report ID: 010417135

## Soil Analysis Report

1673 Terra Avenue  
Sheridan, WY 82801

Canyon Fuel Co

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Set #0104S17135

Date Received: 12/10/04

Report Date: 12/28/04

Lab Id	Sample Id	Coarse Fragments %	Field Capacity %	Wilt Point %	Available Sodium meq/100g	Exchangeable Sodium meq/100g	Boron ppm	Nitrogen Nitrate ppm	Selenium ppm	TKN %
0104S17135	128204 WR	33.4	23.4	5.5	0.35	0.19	0.74	0.28	<0.02	1.98
0104S17136	12804 SS	31.0	17.8	10.6	0.36	0.09	0.23	0.30	<0.02	0.05

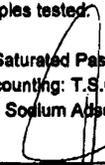
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Set #0104S17135

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Lab Id	Sample Id	TOC %	Total Sulfur %	T.S. AB /1000t	Neutral. Pot. /1000t	T.S. ABP /1000t	Sulfate- Sulfur %	Pyritic- Sulfur %	Organic- Sulfur %	PyrS AB /1000t	PyrS ABP /1000t
0104S17135	128204 WR	69.6	0.73	22.8	16.3	-6.49	0.02	0.71	<0.01	22.2	-5.87
0104S17136	12804 SS	0.2	<0.01	0.00	175	175					

These results only apply to the samples tested.

Abbreviations for extractants: PE= Saturated Paste Extract, H2Osol= water soluble, AB-DTPA= Ammonium Bicarbonate-DTPA, AAC= Acid Ammonium Oxalate

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