



*"Safety as a Value"*

Telephone: 970.385.4528  
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**GCC Energy, LLC**  
6473 County Road 120  
Hesperus, CO 81326

June 6, 2016

State of Colorado  
Division of Reclamation Mining & Safety  
1313 Sherman St, Room 215  
Denver, CO 80203

Attn: Janet Binns, Environmental Protection Specialist III

RE: King II Mine: ID# 05-04864  
Ventilation Plan Amendment: Roof Bolting Faces CFM

Ms Binns:

Attached is a report by Geomat, Inc. documenting results of annual compaction tests performed on 9/9/2021 at the King I Refuse Pile.

Please contact Jordan McCourt at 970.385.4528 x 6531 with questions or comments.

Sincerely,

A handwritten signature in black ink that reads 'Jordan McCourt' in a cursive script.

Jordan McCourt  
Project Coordinator  
GCC Energy, LLC



915 Malta Avenue  
Farmington, NM 87401  
Phone: 505-327-7928  
Fax: 505-326-5721

# Daily Observation Report

**Client:**

GCC Energy, LLC  
6473 County Road 120  
Hesperus, CO 81326

**Project:**

201-3529  
Refuse Pile Density Testing  
6473 CR 120  
Hesperus, CO 81326

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**Activity Number:** 2**Date:** 09/09/2021**Arrival Time:** 09:10**Specific Location:** King Coal I & II**Client Project Number:** Not applicable**Weather Conditions:** Sunny / Partly Cloudy / Dry / Calm**Equipment on site:** Loader**Unexpected site conditions:** None

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**Work in Progress / Remark:**

Tech arrived at King Coal II, for check in at dispatch building with Wade. Escorted to building to obtain hazard training for mine. Upon completion of hazard training, escorted to King Coal I for FDT's on refuse piles. 6 FDT's total were performed (3 on bottom refuse and 3 on upper refuse piles). Obtained in-place moisture densities for all FDT's taken. Composite sample of refuse piles was also obtained. FDT's are pending proctor results of sampled obtained.

**Persons Notified:** Wade

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**Number of Density Tests****Soils**

Pass: 0	Retest: 0	Fail: 0	Pending: 6	Total: 6
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**Asphalt**

None Performed

**Concrete Tests**

None Performed

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<b>Total Time:</b> 6.50	<b>Travel Time:</b> 1.50	<b>Standby/Retest Time:</b> 0.00	<b>Test Time:</b> 5.00
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**Reason For Standby:** N/A

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**Client Representative:** Wade**GEO MAT Technician:** Matthew Crockett

Test Results														
Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Remark
8		09/09/21	4873	C	--	11.0	80.8	6.9	77.1	82.4	8	95	90	DP
9		09/09/21	4873	C	--	11.0	80.8	6.7	76.0	81.1	8	94	90	DP
10		09/09/21	4873	C	--	11.0	80.8	8.0	77.6	83.8	8	96	90	DP
11		09/09/21	4873	C	--	11.0	80.8	7.4	78.2	84.0	8	97	90	DP
12		09/09/21	4873	C	--	11.0	80.8	7.1	77.3	82.8	8	96	90	DP
13		09/09/21	4873	C	--	11.0	80.8	6.4	80.2	85.3	8	99	90	DP
Test Information														
Test #	Test Location						Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician		
8	Other: 26' North & 69'E of SWC of Bottom GOB Pit						10.0	Feet below top of fill	Troxler / 3440 / 77984 / 02/02/2021			Matthew Crockett		
9	Other: 71' North & 130' East of SWC of Bottom GOB Pit						10.0	Feet below top of fill	Troxler / 3440 / 77984 / 02/02/2021			Matthew Crockett		
10	Other: 123' North & 212" East of SWC of Bottom GOB Pit						10.0	Feet below top of fill	Troxler / 3440 / 77984 / 02/02/2021			Matthew Crockett		
11	Other: 40' South & 446' East of NWC of Upper GOB Pit						10.0	Feet below top of fill	Troxler / 3440 / 77984 / 02/02/2021			Matthew Crockett		
12	Other: 103' South & 243' East of NWC of Upper GOB Pit						10.0	Feet below top of fill	Troxler / 3440 / 77984 / 02/02/2021			Matthew Crockett		
13	Other: 190' South & 44' East of NWC of Upper GOB Pit						10.0	Feet below top of fill	Troxler / 3440 / 77984 / 02/02/2021			Matthew Crockett		
Remarks				Comments										
DP: Density Pass				Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										