

The Division of Reclamation, Mining and Safety has conducted an inspection of the mining operation noted below. This report documents observations concerning compliance with the terms of the permit and applicable rules and regulations of the Mined Land Reclamation Board.

MINE NAME:	MINE/PROSPECTING ID#:	MINERAL:	COUNTY:
Cucharas Pit	M-2002-109	Borrow material	Huerfano
INSPECTION TYPE:	INSPECTOR(S):	INSP. DATE:	INSP. TIME:
Surety-Related Inspection	Amy Eschberger	May 21, 2015	11:30
OPERATOR:	<b>OPERATOR REPRESENTATIVE:</b>	<b>TYPE OF OPERATIO</b>	N:
A. Blasi & Son Trucking & Earthmoving, LLC	Anthony Blasi	110c - Construction Lim	ited Impact

<b>REASON FOR INSPECTION:</b>	BOND CALCULATION TYPE:	BOND AMOUNT:
Surety Related	Complete Bond	\$28,731.00
DATE OF COMPLAINT:	POST INSP. CONTACTS:	JOINT INSP. AGENCY:
NA	None	None
WEATHER:	<b>INSPECTOR'S SIGNATURE:</b>	SIGNATURE DATE:
Clear	anne Eichberger	June 11, 2015
	0. 0	

#### **GENERAL INSPECTION TOPICS**

This list identifies the environmental and permit parameters inspected and gives a categorical evaluation of each. No problems or possible violations were noted during the inspection. The mine operation was found to be in full compliance with Mineral Rules and Regulations of the Colorado Mined Land Reclamation Board for the Extraction of Construction Materials and/or for Hard Rock, Metal and Designated Mining Operations. Any person engaged in any mining operation shall notify the office of any failure or imminent failure, as soon as reasonably practicable after such person has knowledge of such condition or of any impoundment, embankment, or slope that poses a reasonable potential for danger to any persons or property or to the environment; or any environmental protection facility designed to contain or control chemicals or waste which are acid or toxic-forming, as identified in the permit.

(AR) RECORDS <u>Y</u>	(FN) FINANCIAL WARRANTY Y	(RD) ROADS <u>Y</u>
(HB) HYDROLOGIC BALANCE <u>Y</u>	(BG) BACKFILL & GRADING <u>Y</u>	(EX) EXPLOSIVES <u>NA</u>
(PW) PROCESSING WASTE/TAILING <u>Y</u>	(SF) PROCESSING FACILITIES NA	(TS) TOPSOIL <u>Y</u>
(MP) GENL MINE PLAN COMPLIANCE- <u>Y</u>	(FW) FISH & WILDLIFE <u>N</u>	(RV) REVEGETATION Y
(SM) SIGNS AND MARKERS <u>Y</u>	(SP) STORM WATER MGT PLAN Y	(SB) COMPLETE INSP Y
(ES) OVERBURDEN/DEV. WASTE <u>Y</u>	(SC) EROSION/SEDIMENTATION Y	(RS) RECL PLAN/COMP Y
(AT) ACID OR TOXIC MATERIALS <u>NA</u>	(OD) OFF-SITE DAMAGE <u>Y</u>	(ST) STIPULATIONS <u>NA</u>

Y = Inspected and found in compliance / N = Not inspected / NA = Not applicable to this operation / PB = Problem cited / PV = Possible violation cited

## **OBSERVATIONS**

This was a surety-related inspection of the Cucharas Pit (Permit No. M-2002-109) conducted by Amy Eschberger of the Division of Reclamation, Mining and Safety (Division) in response to a Surety Reduction request (SR-01) and an Acreage Reduction request (AR-01) that were received by the Division on 05/15/2015. Both of the requests submitted will be discussed in this report. Mr. Anthony Blasi of A. Blasi & Son Trucking & Earthmoving, LLC was present for the inspection. The site is located approximately 14 miles northeast of Walsenburg, Colorado in Huerfano County, on land owned by Mr. Jim Pace. Access to the site is off of Co Rd 121. The original access road was not used for this inspection, as it is being reclaimed per the landowner's request (Photo 1). The access road to the adjacent permitted site (Permit No. M-2011-003) operated by Huerfano County was used to access the Cucharas Pit (with their permission). In doing this, one must park on the county side and cross the barbed wire fence that runs north-south separating the two sites.

This is a 110c operation permitted for 9.97 acres to mine sand and gravel for use in road construction and maintenance. Mining consists of extracting approximately 8 feet of material from the top of a small plateau, leaving a relatively flat surface. Mined material is processed on site with mobile equipment. The approved reclamation plan calls for grading all mined slopes to 3H:1V or flatter, replacing topsoil at an average depth of 6 inches, and revegetating disturbed land to a post-mining land use of rangeland.

At the time of the inspection, the weather was partly cloudy and cool, and pools of standing water were present on the ground due to recent storm events. A permit sign was posted at the main entrance to the site off of Co Rd 121. The approved permit boundary was properly delineated by metal posts (Photo 2). The site was not active during the inspection, and no equipment was present on site. According to the annual report received by the Division on 01/21/2015, the site has been inactive since 2007. If mining activities (e.g., material extraction, processing, stockpile removal) do not occur at the site every year, the operator will need to either file for Temporary Cessation (if mining activities are expected to continue in the future; see enclosed form) or begin final reclamation of the entire affected area. Pursuant to C.R.S. 34-32.5-116(4)(q)(I), upon completion of mining, final reclamation shall be completed prior to the expiration of five (5) years after the date the operator reports that mining has been completed.

The Division estimates that the operation disturbed a total of approximately 5.5 acres, of which approximately 3.25 acres in the central and southern portions of the site have been reclaimed. The reclaimed areas were graded to nearly flat, retopsoiled, and seeded several years ago. Although the topsoil is fairly rocky in these areas, its vegetation is fairly well-established and diverse, comprised of native grasses, some forbs, fringed sagebrush, and yucca (Photos 3-7). The Division believes that these 3.25 acres have been reclaimed in accordance with the approved reclamation plan.

Disturbed (unreclaimed) areas include a small circular pit approximately 1.25 acres in size encircled by overburden berms approximately 3 feet in height (Photos 8 and 9), a small product stockpile located just southwest of the pit (Photo 10), a small topsoil stockpile located just southeast of the pit (Photo 11), and a larger topsoil stockpile located farther southeast of the pit (Photo 12). Mr. Blasi indicated the landowner may wish to have the small product stockpile remain for his personal use. As stated during the inspection, the stockpile can remain after reclamation if the operator submits a signed and dated letter from the landowner stating his desire to leave the stockpile.

During the inspection, the Division measured current disturbance with a handheld Trimble GPS unit and compared this data with a recent Google Earth image of the site. Based on this information, the Division estimates current (unreclaimed) disturbance to consist of approximately 2.25 acres, which includes the pit, the berms, and the topsoil stockpiles (see enclosed Google Earth image). To complete reclamation of the site, the

berms would need to be pushed into the pit and/or graded out to 3H:1V slopes or flatter, topsoil would need to be replaced at an average depth of 6 inches, and the disturbed land would need to be revegetated using the approved seed mixture. <u>Based on existing liability at this site, the Division estimates the required financial warranty to be in the amount of \$7,756.00 (see enclosed bond calculation). This is a reduction of \$20,975.00 from the currently held bond of \$28,731.00. No written comments or objections regarding SR-01 or AR-01 were received by the Division within the public comment period that ended on 06/11/2015. <u>Therefore, the Division will approve SR-01 for a reduction in the amount listed above.</u></u>

<u>The Division will also approve AR-01 for a reduction of 3.57 acres, giving a new total permit area of 6.4 acres</u> (see enclosed Google Earth image). The new permit boundary will utilize existing corner markers in the northern half of the site, with only one new marker required near the tree located just south of the topsoil stockpile. Although this new permit boundary is different than what was proposed in AR-01, it should allow the operator ample space to complete final reclamation of the site.

The approval letters for SR-01 and AR-01 are enclosed with this report.

#### PERMIT #: M-2002-109 INSPECTOR'S INITIALS: AME INSPECTION DATE: May 21, 2015

# **PHOTOGRAPHS**



Photo 1. View looking south from Co Rd 121, showing main access road in reclamation.



Photo 2. View of marker at southwest permit boundary corner (indicated).



**Photo 3.** View looking northeast from western edge of permit area, showing reclaimed portion with fairly well-established vegetation.



**Photo 4.** View looking east from western edge of permit area, showing reclaimed portion with fairly well-established vegetation. Note topsoil stockpile located on eastern edge of reclaimed area.



**Photo 5.** View looking north from southeastern edge of permit area, showing reclaimed portion with fairly well-established vegetation.



**Photo 6.** View looking northeast from southeastern edge of permit area, showing reclaimed portion with fairly well-established vegetation.



**Photo 7.** View looking west from southeastern edge of permit area, showing reclaimed portion with fairly well-established vegetation.



Photo 8. View looking east across southeastern portion of pit.



Photo 9. View looking northwest across western portion of pit.



Photo 10. View of small product stockpile located southwest of pit.



Photo 11. View of topsoil stockpile located just southeast of pit.



Photo 12. View of topsoil stockpile located farther southeast of pit.

#### PERMIT #: M-2002-109 INSPECTOR'S INITIALS: AME INSPECTION DATE: May 21, 2015

# **Inspection Contact Address**

Anthony Blasi A. Blasi & Son Trucking & Earthmoving, LLC 38043 CR 32.4 Trinidad, CO 81082

- Enclosure(s): Temporary Cessation form Google Earth image of permit area with Division markings Bond Calculation Approval Letter for SR-01 Approval Letter for AR-01
- CC: Wally Erickson, DRMS

**COLORADO DIVISION OF RECLAMATION, MINING AND SAFETY** 1313 Sherman Street, Room 215, Denver, Colorado 80203 Phone (303) 866-3567

# **TEMPORARY CESSATION NOTICE**

(mining activities temporarily cease for more than a one-year period)

Today's date:			
Permit number: M	Site name:		
County:		TC number:	(DRMS use only)
Permittee making request:			
Operator (if other than permittee)	:		
Date the initial five-year period o	f Temporary Cessation begins	S:	
Reason mining activities (materia	ls extraction, processing, hau	ling) have ceased:	
Description of plan to resume ope	erations:		
Description of plan to meet perfo monitoring, signs, markers, etc.):	rmance standards of Rule 3.1	during temporary cessation	n (reclamation, weed control
Number of affected acres:			
Amount of financial warranty (bo	ond) on deposit with the state:	\$	
Required fees for Temporary Ces for Temporary Cessation):	sation by permit type (please	mark the correct fee and su	bmit it with this request
Permit type Construction Materials	<b><u>Required 7</u></b> \$144	<u>FR fee</u> <u>Submit</u>	<u>ted</u> (mark only one)
Hard Rock/ Metal Mining	\$115		
The above-referenced permit h	as entered Temporary Cessa	ation. This site has reserv	ves remaining to be mined.
Operator's signature:			

Please note:

1. While in Temporary Cessation, the operator must continue to comply with the Rules and Act, including maintaining the site, and must continue to file an annual report and annual fee.

# M2002-109 / Cucharas Pit / A. Blasi & Son Trucking & Earthmoving, LLC

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Red Line = 9.97 acres = Approved Permit Boundary Blue Line = 6.40 acres = New Permit Boundary (recommended by DRMS to allow enough space for final reclamation) Green Line = 2.25 acres = Disturbed Area (as of 05/21/15 inspection) included in required FW Yellow Line = 900 feet = Overburden Berms

A N

# COST SUMMARY WORK

Task de	escription:	Cost Summary						
Site:	Cucharas	s Pit		P	ermit Action:	SR-01 201	5 Permit/	Job#: <u>M2002109</u>
Ī	PROJECT	<u>IDENTIFICAT</u>	ION					
	Task #:	000	State:	Colorado			Abbreviation:	None
	Date: User:	6/10/2015 AME	County:	Huerfand	)		Filename:	M109-000
	Ag	gency or organization	n name: DR	MS				
<u>]</u>	FASK LIS	ST (DIRECT CO)	<u>STS)</u>					
Task					Form	Fleet	Task	Cont
001	Descrip	<b>tion</b> erburden berms into	nit		Used DOZER	Size	<b>Hours</b> 0.76	Cost \$130.00
001		copsoil across 2.25 a	*	leen	DOZER	1	15.56	\$130.00 \$2,670.00
002	-	ate 2.25 acres to ran		icep	REVEGE	1	9.00	\$2,891.00
004	U	ation/Demobilizatio	0		MOBILIZE	1	2.62	\$842.00
					SUDTA	<b>ATAI 6</b> .	27.94	\$6,533
					SUBIC	<u> DTALS:</u>		<i><i><i><i>v</i></i>,<i><i>v</i>,<i>v</i>,<i>v</i>,<i>v</i>,<i>v</i>,<i>v</i>,<i>v</i>,<i>v</i></i></i></i>
	NDIDEC	T COSTS					<u> </u>	
_								
<u>(</u>		D AND PROFIT:						
		iability insurance:	2.02%					5131.97
		erformance bond:	1.05%					\$68.60
	J	bb superintendent: Profit:	0.00 hrs 10.00%					\$0.00 \$653.30
		FIOIII.	10.00%			тот		853.87
				CON	NTRACT AMOU			\$7,386.87
				_			/	
Ι	LEGAL - E	NGINEERING - PR	OJECT MANA	AGEMEN	Т:			
	г.	• 1	• (1 1/ 1 /	1	0.00		<b>T</b> (1)	0.00

Financial warranty processing (legal/related costs):	0.00	Total =	0.00
Engineering work and/or contract/bid preparation:	0.00%	Total =	\$0.00
Reclamation management and/or administration:	5.00%		\$369.34
CONTINGENCY:	0.00	Total =	\$0.00
	TOTAL I	NDIRECT COST =	\$1,223.21
	· · · · · · · · · · · · · · · ·		A

TOTAL BOND AMOUNT (direct + indirect) = \_\_\_\_\$7,756.21

Page 1 of 2

# BULLDOZER WORK

Task description:	Push	overburden	i berms into	pit		
Cucharas Pit		Perr	mit Action:	SR-01 2015	Permit/Job#	#: <u>M2002109</u>
PROJECT IDEN	TIFICATIO	<u>DN</u>				
Task #: 001		State:	Colorado		Abbreviation:	None
Date: 6/10/2		County:	Huerfano		Filename:	M109-001
User: AME						
Agency of	organization i	name: DR	RMS			
HOURLY EQU	PMENT CO	<u>ST</u>				
Basic Machine:	Cat D7R DS	S Series II LO	GP			
Horsepower:	238 Straight					
Blade Type: Attachment:	Straight 3-shank ripp					
Shift Basis:	1 per day	Jei				
Data Source:	(CRG)					
	(CKO)					
Cost Breakdown:			1			
	r.	<b># 10 01</b>		<u>Utilization 9</u>	<u>%</u>	
Ownership Cost/H		\$49.84		NA		
Operating Cost/H Ripper op. Cost/H		\$83.73 \$0.00		<u> </u>		
		\$0.00				
Operator Cost/H		\$38.01		NA		
Total unit Cost/Hou Total Fleet Cost/Ho MATERIAL QU	our: \$171.5	57				
Total Fleet Cost/Ho <u>MATERIAL OU</u> Initial Volume:	our: <b>\$171.5</b> [ANTITIES] 150	57				
Total Fleet Cost/Ho	our: \$171.5	57				
Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor:	\$171.5           ANTITIES           150           1.165           175 LCY           volume:			x 3'H x 3'D		
Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated	\$171.5           ANTITIES           150           1.165           175 LCY           volume:           swell factor:	DRMS; b		<u>x 3'H x 3'D</u>		
Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROI Average push distant	wr:       \$171.5         150       1.165         175 LCY       volume:         swell factor:       0         DUCTION       nce:	DRMS; b Cat Hand	book	<u>x 3'H x 3'D</u>		
Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROI	wr:       \$171.5         150       1.165         175 LCY       volume:         swell factor:       0         DUCTION       nce:	DRMS; b Cat Hand	book	<u>x 3'H x 3'D</u>		
Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROI Average push distant	\$171.5           ANTITIES           150           1.165           175 LCY           volume:           swell factor:           DUCTION           nce:           production:	DRMS; b Cat Hand 100 feet 496.4 LCY/	book hr	x 3'H x 3'D  stockpile 1.1		_
Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROI Average push distant Unadjusted hourly p	ANTITIES ANT	DRMS; b Cat Hand 100 feet 496.4 LCY/ Partly c	book hr			_
Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROI Average push distan Unadjusted hourly Materials consisten Average push gradi	wr:       \$171.5         150       150         1.165       175 LCY         volume:       \$well factor:         bwell factor:       DUCTION         nce:          production:          cy description:          ent:      5 %         e:      5,800	DRMS; b Cat Hand 100 feet 496.4 LCY/ Partly c	book hr			_
Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROI Average push distant Unadjusted hourly p Materials consisten Average push gradi Average site altitud	yur: $\$171.5$ ANTITIES1501.165175 LCYI volume:I swell factor:DUCTIONnce:production:	DRMS; b Cat Handl 100 feet 496.4 LCY/ Partly c feet lbs/LCY	book hr	stockpile 1.1		-
Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated MOURLY PROI Average push distant Unadjusted hourly p Materials consisten Average push gradi Average site altitud Material weight:	wr:       \$171.5         150       1.165         175 LCY       volume:         volume:       swell factor:         DUCTION	DRMS; b Cat Handl 100 feet 496.4 LCY/ Partly c feet lbs/LCY	book hr consolidated	stockpile 1.1		-
Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated Mourney PROI Average push distant Unadjusted hourly p Materials consisten Average push gradi Average site altitud Material weight: Weight description: Job Condition Corre Ope	ANTITIES ANT	DRMS; b Cat Handl 100 feet 496.4 LCY/ Partly c feet lbs/LCY nposed rock 0.	book hr consolidated - 50% Rock, 750		Б.)	_
Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated Mourly PROI Average push distant Unadjusted hourly p Materials consisten Average push gradi Average site altitud Material weight: Weight description: Job Condition Corr Ope Material c	ANTITIES ANT	DRMS; b Cat Hand 100 feet 496.4 LCY/ Partly c feet lbs/LCY nposed rock 0.7 1.	book hr consolidated - 50% Rock, 750 100		B.) HB)	-
Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated Mourly PROI Average push distant Unadjusted hourly p Materials consisten Average push gradi Average site altitud Material weight: Weight description: Job Condition Corr Ope Material c	ANTITIES ANT	DRMS; b Cat Handl 100 feet 496.4 LCY/ Partly c feet lbs/LCY nposed rock 0.7 1.	book hr consolidated - 50% Rock, 750 100 100		G.) HB) SL)	-
Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated MOURLY PROI Average push distan Unadjusted hourly p Materials consisten Average push gradi Average site altitud Material weight: Weight description: Job Condition Corr Ope Material c Dozi	ANTITIES ANT	DRMS; b Cat Handl 100 feet 496.4 LCY/ Partly c feet lbs/LCY nposed rock 0.' 1. 1.	book hr consolidated 	stockpile 1.1 stockpile 1.1 , 50% Earth <u>Source</u> (AVG (CAT F (50% S (AVG	6.) HB) SL) 6.)	
Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated MOURLY PROI Average push distan Unadjusted hourly p Materials consisten Average push gradi Average site altitud Material weight: Weight description: Job Condition Corr Ope Material c Dozi	ANTITIES ANT	DRMS; b Cat Handl 100 feet 496.4 LCY/ Partly c feet lbs/LCY nposed rock 0.' 1. 1.	book hr consolidated - 50% Rock, 750 100 100		6.) HB) SL) 6.)	-

Task # 001

Push gradient:	1.115	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4662					
Adjusted unit production:	231.42 LCY/hr				
Adjusted fleet production:	231.42 LCY/hr				

#### JOB TIME AND COST

Fleet size:	1 Dozer(s)
Unit cost:	\$0.741/LCY

Total job time:	<b>0.76</b> Hours
Total job cost:	\$130

# BULLDOZER WORK

Task description:	Sprea	d topsoil across 2.25 ac	cres, 6 inches deep		
Cucharas Pit		Permit Action:	SR-01 2015	Permit/Job#:	M2002109
PROJECT IDENT	FICATIO	<u>N</u>			
Task #:         002           Date:         6/10/201           User:         AME	5	State:ColoradoCounty:Huerfano		Abbreviation: Filename:	None M109-002
Agency or or	ganization r	ame: DRMS			
HOURLY EQUIPN	MENT CO	<u>ST</u>			
		Series II LGP			
	238 Straight				
	B-shank ripp	er			
	per day				
	CRG)				
Cost Breakdown:			Utilization %		
Ownership Cost/Hou	r:	\$49.84	NA		
Operating Cost/Hou		\$83.73	100		
Ripper op. Cost/Hou		\$0.00	100		
Operator Cost/Hou		\$38.01	NA		
•					
Total unit Cost/Hour:	0				
Total Fleet Cost/Hour:	\$171.5	7			
	494				
	215 815 LCY				
Source of estimated vo	lume:	Division of Reclamati	on, Mining & Safety		
Source of estimated sw		Cat Handbook			
HOURLY PRODU	<b>CTION</b>				
Average push distance	:	400 feet			
Unadjusted hourly pro		180.4 LCY/hr			
Materials consistency	description:	Consolidated stock	bile 1.0		
Average push gradient		<u></u>			
Average site altitude:	5,800				
Material weight:	1,600	bs/LCY		-	
Weight description:	Top So	pil			
Job Condition Correct	on Factor or Skill:	0.750	Source (AVG.)		
Material cons		1.000	(CAT HB)		
Dozing		1.000	(GEN.)		
	sibility:	1.000	(AVG.)		
	iciency:	0.830	(1 SHIFT/DAY)		
	-				
Sp	oil pile:	0.800	(FND-RF)		

Task # 002

Push gradient:	0.903	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0 6467	

Net correctio	on: 0.6467	
Adjusted unit production:	116.66 LCY/hr	
Adjusted fleet production:	116.66 LCY/hr	

#### JOB TIME AND COST

Fleet size:	1 Dozer(s)
Unit cost:	\$1.471/LCY

Total job time:	15.56 Hours
Total job cost:	\$2,670

# **REVEGETATION WORK**

Task descri	ption:	Revegetate 2.25	acres to ran	geland		
ite: Cuchara	s Pit	Per	mit Action:	SR-01 2015	Permit/Job#:	M2002109
	<u>F IDENTIFI</u> 003	CATION State:	Colorado		Abbreviation:	None
1 ack #•			Colorado		Abbie viation.	None
Task #: Date:	6/10/2015	County:	Huerfano		Filename:	M109-003

#### **FERTILIZING**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
0-10-20, 3-9-18	40.00	pound	\$0.19	\$7.60
			Total Fertilizer Materials Cost/Acre	\$7.60

#### Application

Description		Cost /Acre
Push rotary spreader (MEANS 32 01 90.13 0110)		\$87.56
Tractor towed spreader (MEANS 32 01 90.13 0120)		\$52.71
	Total Fertilizer Application Cost/Acre	\$140.27

#### **TILLING**

Description	Cost /Acre
	\$
Total Tilling Cost/Acre	\$0.00

# **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Nespar	12.00	38.84	\$84.96
Blue Grama - Lovington	3.00	48.97	\$32.58
Sideoats Grama - Vaughn	9.00	29.55	\$101.16
Western Wheatgrass - Arriba	16.00	40.40	\$58.88
Totals Seed Mix	40.00	157.76	\$277.58

#### Application

Description	Cost /Acre
Broadcast seeding [DMG]	\$261.28

#### **Total Seed Application Cost/Acre**

\$261.28

#### **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered {MEANS 31 25 14.16 1200}	1.50	TON	\$265.00	\$397.50
Total Mulch Materials Cost/Acre				\$397.50

#### Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$65.89
	<b>Total Mulch Application Cost/Acre</b>	\$65.89

## NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Totals	Nursery Stoc	ek Cost / Acre	\$0.00

#### JOB TIME AND COST

Estimate *Selected Replantir	No. of Acres: ed Failure Rate: ng Work Items:	25%		\$1,150.12       \$538.86
Initial Job Cost: Reseeding Job Cost: Total Job Cost: Job Hours:	\$303.11 \$2,891		-	

# EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description:	1110	bilization/Demobi						
: Cucharas Pit		Permit A	Action: <u>SR-01</u>	2015	Per	rmit/Job#:	M20021	109
PROJECT IDEN	NTIFICAT	ION						
Task #: 004		State: Co	olorado		Abbre	eviation:	None	
Date: 6/10/	2015	County: Hu	ierfano		Fi	ilename:	M109-00	)4
User: AME	3					=		
Agency o	r organizatio	n name: DRMS						
EQUIPMENT T	RANSPOF	<u>RT RIG COST</u>						
					Shift ba	sis <sup>.</sup> 1	l per day	
					Cost Data Sour		CRG Data	
Truck	Tractor Desc	cription: GENI	ERIC ON-HIGH				DIESEL PO	OWERED,
					(2ND HALF,			
Truck	Trailer Desc	cription: GENE	RIC FOLDING	GOOSEN	ECK, DROP D	ECK EQU	JIPMENT	TRAILER
Truck	Trailer Desc	cription: GENE	RIC FOLDING	GOOSEN		ECK EQU	JIPMENT	TRAILER
Truck <u>Cost Breakdown:</u>	Trailer Desc	cription: GENE	RIC FOLDING	GOOSEN	ECK, DROP D	ECK EQU	JIPMENT	TRAILER
Cost Breakdown:		·		GOOSEN (25T,	ECK, DROP D 50T, AND 10	ECK EQU	JIPMENT	TRAILER
Cost Breakdown: Available Rig Cap	pacities	0-25 Tons	26-50 Tons	GOOSEN (25T, 51+	ECK, DROP D 50T, AND 10 - Tons	ECK EQU	JIPMENT	TRAILER
Cost Breakdown: Available Rig Cap Ownership	oacities Cost/Hour:	0-25 Tons \$16.63	<b>26-50 Tons</b> \$18.37	GOOSEN (25T, 51-	ECK, DROP D 50T, AND 10 - Tons 22.33	ECK EQU	JIPMENT	TRAILER
Cost Breakdown: Available Rig Cap Ownership Operating	<b>Dacities</b> Cost/Hour: Cost/Hour:	<b>0-25 Tons</b> \$16.63 \$44.38	<b>26-50 Tons</b> \$18.37 \$46.13	GOOSEN (25T, 51+ \$2 \$3	ECK, DROP D 50T, AND 10 - Tons 22.33 50.07	ECK EQU	JIPMENT	TRAILER
<u>Cost Breakdown:</u> <u>Available Rig Cap</u> Ownership Operating Operator	oacities Cost/Hour:	0-25 Tons \$16.63	<b>26-50 Tons</b> \$18.37	GOOSEN (25T, 51+ \$2 \$5 \$2 \$2	ECK, DROP D 50T, AND 10 - Tons 22.33	ECK EQU	JIPMENT	TRAILER
<u>Cost Breakdown:</u> <u>Available Rig Cap</u> Ownership Operating Operator	Dacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	<b>0-25 Tons</b> \$16.63 \$44.38 \$27.66	<b>26-50 Tons</b> \$18.37 \$46.13 \$27.66	GOOSEN (25T) 51+ \$2 \$3 \$2 \$2 \$2 \$2 \$2 \$2	ECK, DROP D 50T, AND 10 - Tons 22.33 50.07 27.66	ECK EQU	JIPMENT	TRAILER
<u>Cost Breakdown:</u> Available Rig Cap Ownership Operating Operator Helper	Dacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	0-25 Tons           \$16.63           \$44.38           \$27.66           \$0.00	<b>26-50 Tons</b> \$18.37 \$46.13 \$27.66 \$25.39	GOOSEN (25T) 51+ \$2 \$3 \$2 \$2 \$2 \$2 \$2 \$2	ECK, DROP D 50T, AND 10 - Tons 22.33 50.07 27.66 25.39	ECK EQU	JIPMENT	TRAILER
<u>Cost Breakdown:</u> Available Rig Cap Ownership Operating Operator Helper	Dacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	0-25 Tons           \$16.63           \$44.38           \$27.66           \$0.00           \$88.67	<b>26-50 Tons</b> \$18.37 \$46.13 \$27.66 \$25.39	GOOSEN (25T) 51+ \$2 \$3 \$2 \$2 \$2 \$2 \$2 \$2	ECK, DROP D 50T, AND 10 - Tons 22.33 50.07 27.66 25.39	ECK EQU	JIPMENT	TRAILER
Cost Breakdown: Available Rig Cap Ownership Operating Operator Helper Total Unit	Dacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	0-25 Tons           \$16.63           \$44.38           \$27.66           \$0.00           \$88.67	<b>26-50 Tons</b> \$18.37 \$46.13 \$27.66 \$25.39	GOOSEN (25T) 51+ \$2 \$3 \$2 \$2 \$2 \$2 \$2 \$2	ECK, DROP D 50T, AND 10 - Tons 22.33 50.07 27.66 25.39	PECK EQU 0T)	Frip	DOT Perm
Cost Breakdown: Available Rig Cap Ownership ( Operating ( Operator ( Helper ( Total Unit ( NON ROADAB)	Dacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIP Weight/ Unit	0-25 Tons           \$16.63           \$44.38           \$27.66           \$0.00           \$88.67	<b>26-50 Tons</b> \$18.37 \$46.13 \$27.66 \$25.39 \$117.55	GOOSEN (25T, 51- \$2 \$2 \$2 \$2 \$1	ECK, DROP D 50T, AND 10 - Tons 22.33 50.07 27.66 25.39 25.45 Haul Trip Cost/hr/	DECK EQU	Frip	
Cost Breakdown: Available Rig Cap Ownership ( Operating ( Operator ( Helper ( Total Unit ( NON ROADAB Machine Description	Dacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIP Weight/ Unit (TONS)	0-25 Tons           \$16.63           \$44.38           \$27.66           \$0.00           \$88.67           MENT:           Owner ship           Cost/hr/ unit	26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39 \$117.55 Haul Rig Cost/hr/unit	GOOSEN (25T, (25T, 51- \$2 \$2 \$2 \$2 \$1 Fleet	ECK, DROP D 50T, AND 10 - Tons 22.33 50.07 27.66 25.39 25.45 Haul Trip Cost/hr/ fleet	Return T Cost/hr/	Frip fleet	DOT Perm Cost/ fleet
Cost Breakdown: Available Rig Cap Ownership ( Operating Operator ( Helper ( Total Unit ( NON ROADAB) Machine	Dacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIP Weight/ Unit	0-25 Tons         \$16.63         \$44.38         \$27.66         \$0.00         \$88.67         MENT:         Owner ship	<b>26-50 Tons</b> \$18.37 \$46.13 \$27.66 \$25.39 \$117.55 Haul Rig	GOOSEN (25T, (25T, 51- \$2 \$2 \$2 \$2 \$1 Fleet	ECK, DROP D 50T, AND 10 - Tons 22.33 50.07 27.66 25.39 25.45 Haul Trip Cost/hr/	PECK EQU 0T)	Frip fleet	DOT Perm

#### **ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Truck Tractor, 6x4, 50K GVW	\$59.88	1	\$59.88	\$59.88
		Subtotals:	\$59.88	\$59.88

# **EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region: Total one-way travel distance: Average Travel Speed:	WALSENBURG 14.00 50.00	miles mph
Total Non-Roadable Mob/Demob Cost *	\$807.98	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$33.53	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.28	0.28
Return Time (Hours):	0.28	0.28
Loading Time (Hours):	0.25	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.31	0.56

#### JOB TIME AND COST

Total job time: **2.62** Hours

Total job cost: \_\_\_\_\_\_\$842