

1313 Sherman St. Room 215 Denver, CO 80203

November 9, 2017

Cecil C Powell P.O. Box 23 Dinosaur, CO 81610

Re:

Powell's Gravel Pit, Permit No. M-1995-012, Financial Warranty Reduction Approval,

Revision No. SR-1

Cork,

I'm sorry we could not connect to do an onsite inspection. I understand it was fall cow roundup and that takes up a lot of time and effort. Enclosed is a lengthy packet, please do not be overwhelmed by it. There is an inspection report that outlines what needs to be done to finish reclamation and release the permit. I used maps and a narrative to explain the process of pit closure. Bottom line is that next fall you can ask for release of around 7 or 8 acres if the vegetation keeps on track. I recommend you try to keep livestock off of the area if at all possible. Also, if the dirt work and seeding on the approximate 2 acres noted is completed by next fall you can ask for another reduction. That would drop off another \$5 to \$6,000 +/-.

On November 9, 2017 the Division of Reclamation, Mining and Safety approved your request for a Financial Warranty Reduction to \$9,946.00. This is a reduction of \$2,381.91. In reviewing the estimate, I took into account work completed and what needs to be done. I also combined a few tasks to reduce mobilization costs to help bring it down some. I took the liberty of including a new financial warranty document for you to sign and send to Denver. When Barbara Coria, our bonding specialist, receives the new signed form she can submit it and the State will send you a check for \$2381.91.

If you have any questions, please contact me.

G. Russell Means

Senior Environmental Protection Specialist

**Enclosures:** 

Sincerely

October 18, 2107 Inspection Report, GRM

November 9, 2017, Reclamation Liability Estimate, GRM

November 9, 2017, Surety Reduction Approval Letter, GRM

Financial Warranty - Check For Deposit in State Treasury





1313 Sherman St. Room 215 Denver, CO 80203

November 9, 2017

Cecil C. Powell Cecil C Powell P.O. Box 23 Dinosaur, CO 81610

Re:

Powell's Gravel Pit, Permit No. M-1995-012, Financial Warranty Reduction Approval,

Revision No. SR-1

#### Cecil Powell:

On November 9, 2017 the Division of Reclamation, Mining and Safety approved your request for a Financial Warranty Reduction to \$9,946.00. This is a reduction of \$2,381.91. This decision reduces the amount of the financial warranty, and does not approve any release of reclamation responsibility for the tasks associated with this request.

Please submit a new Financial Warranty document (enclosed) reflecting this reduction. If you wish to submit a different type of Financial Warranty, please contact our office for the applicable form.

If you have any questions, please contact me.

Sincerely,

G. Russell Means

Senior Environmental Protection Specialist

cc:

Barbara J. Coria,

Division of Reclamation, Mining and Safety

M-FW-13





# MINERALS PROGRAM INSPECTION REPORT PHONE: (303) 866-3567

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:
Powell Gravel Pit		M1995012	Gravel	Moffat
INSPECTION TYPE:		INSPECTOR(S):	INSP. DATE:	INSP. TIME:
Surety Related SR-01		Russ Means	October 18, 2017	11:03
OPERATOR:		OPERATOR REPRESENTATIVE:	TYPE OF OPERA	TION:
Cecil Powell		none	110c	
REASON FOR INSPECTION:		BOND CALCULATION TYPE:	BOND AMOUNT:	
SR-01		To be reviewed	12,327.91	
DATE OF COMPLAINT:		POST INSP. CONTACTS:	JOINT INSP. AGENCY:	
NA		None	None	
WEATHER: Clear	INSPE	CTOR'S SIGNATURE:	SIGNATURE DAT November 8, 2017	E:

# **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>N</u>	(FN) FINANCIAL WARRANTY N	(RD) ROADS <u>N</u>
(HB) HYDROLOGIC BALANCE <u>Y</u>	(BG) BACKFILL & GRADING $\underline{Y}$	(EX) EXPLOSIVES N
(PW) PROCESSING WASTE/TAILING <u>N</u>	(SF) PROCESSING FACILITIES $\underline{N}$	(TS) TOPSOIL <u>N</u>
(MP) GENL MINE PLAN COMPLIANCE- Y	(FW) FISH & WILDLIFE <u>N</u>	(RV) REVEGETATION <u>Y</u>
(SM) SIGNS AND MARKERS <u>Y</u>	(SP) STORM WATER MGT PLAN $\underline{Y}$	(RS) RECL PLAN/COMP Y
(ES) OVERBURDEN/DEV. WASTE <u>N</u>	(SC) EROSION/SEDIMENTATION $\underline{Y}$	(ST) STIPULATIONS <u>N</u>
(AT) ACID OR TOXIC MATERIALS N	(OD) OFF-SITE DAMAGE <u>N</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 inspection was conducted by the Division of Reclamation Mining and Safety (Division) in regard to a surety reduction request by the operator. The Powell Gravel Pit is a 110c with approximately 9.9 acres permitted. Several attempts were made to contact the operator Cecil "Cork" Powell for an onsite visit. However, there was no way to leave a message and the inspection was required to be completed within statutory deadlines. Mrs. Arlene Powell did make contact with the inspector, Russ Means onsite.

The operator in his reduction request has indicated a desire to do final reclamation for permit release. Due to some miscommunications between the Division and operator portions of the pit have been disturbed and reclaimed while other sections have work yet to be done. This inspection report will outline areas within the permitted area that may be releasable in Fall of 2018. It will also outline final tasks necessary to finish total reclamation for a full release in 2019 or 2020 depending on when work is completed and vegetation meets acceptable standards. A recalculation of the Financial Surety will be done to reflect work done and needed for complete release.

The attached Map 1 is a copy of the map supplied by the operator in the 2017 Annual Report. Per this inspection areas outlined and crossed over on the map may be eligible for a partial release in fall of 2018 or Spring of 2019. The laydown storage area is stable and either graveled or revegetated with rabbit brush and natural grasses. At the time of the inspection no noxious weeds were observed. The operator should spray in the spring of 2018 to ensure no unwanted weed species try to establish. The upper ridge area has been reclaimed. Hay waddles and erosion features are functioning as designed. Grass and forbes are beginning to become established. With a good growing season and no impacts from wildlife or livestock this area may be releasable in fall of 2018 or spring 2019. No noxious weeds were observed in this area and spraying should be conducted in spring 2018 as well. Please see Photos 2, 8 through 12

The Attached Map 2 shows areas requiring reclamation work. The inspector advises the operator to do the following:

- 1) Grade out and blend in areas of mining disturbances Area A. Photos 4 and 5
- 2) Push overburden / topsoil from Area B over regraded Area A and slope bench to 3:1. Current vegetation will help establish new vegetation across entire area. Photo 3
- 3) Push topsoil berms in Area C to Area A and blend in slopes to 3:1. Photos 6 and 7

The Attached Map 3 shows the approximate 2 acres that needs to be reseeded with the approved seed mix from TR-01.

If the above earth work and revegetation are completed by fall of 2018 an additional surety reduction request could be requested. The final bond amount at that time would only need to reflect vegetation monitoring and secondary seeding costs.

Attached Map 4 shows the final acreage that may possible be releasable in 2019 or 2020. The release will depend on several factors including when the final work is completed and how well and quickly the vegetation becomes established. The operator is advised to report work done on the annual report.

PERMIT #: M-1995-012 INSPECTOR'S INITIALS: GRM INSPECTION DATE: October18, 2017

Responses to this report should be directed to Russ Means, Senior Environmental Protection Specialist, at the Colorado Division of Reclamation, Mining and Safety at 1313 Sherman Street, Room 215, Denver, CO 80203, by phone at (970)-241-1117 or by email at russ.means@state.co.us.

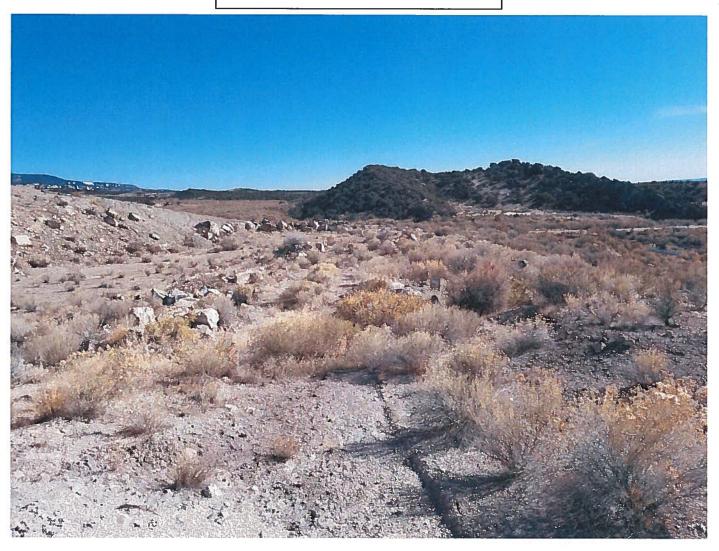
Signage at Pit Entrance Photo 1



Access Road and Storage and Laydown yard Photo 2



Overburden / Soil Stockpile Bench Area B - Map 2 Photo 3



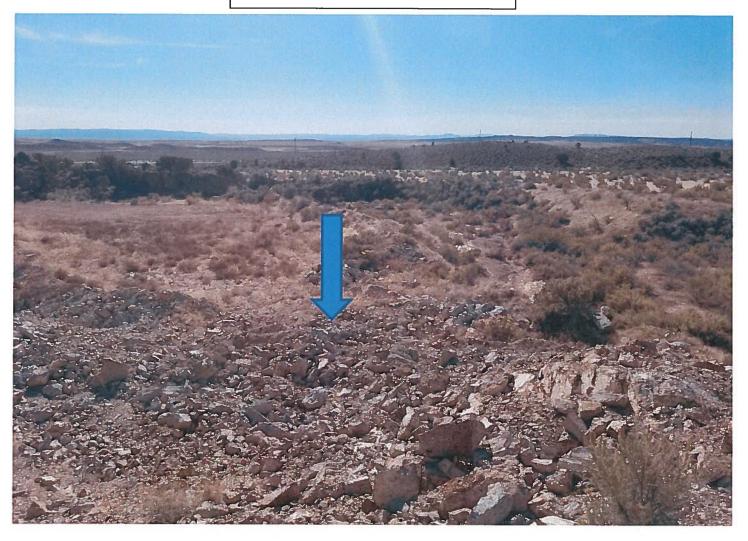
Disturbed mining Area to be graded Area A - Map 2 Photo 4



Upper View of disturbed area A to be regraded Map 2 Photo 5



Topsoil Berm - Area C - Map 2 to be pushed over Area A Photo 6



Higher view disturbed Area A and Push Topsoil C Map 2 Photo 7

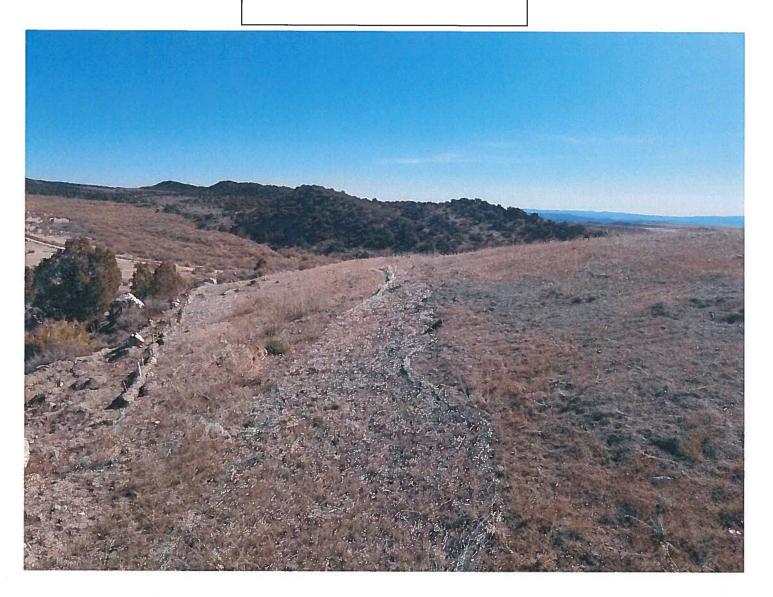


Historic Slope to be left as is
Photo 8











PERMIT #: M-1995-012 INSPECTOR'S INITIALS: GRM INSPECTION DATE: October18, 2017

## **Inspection Contact Address**

Cecil Powell PO Box 23 Dinosaur, CO 81610

Enclosure:

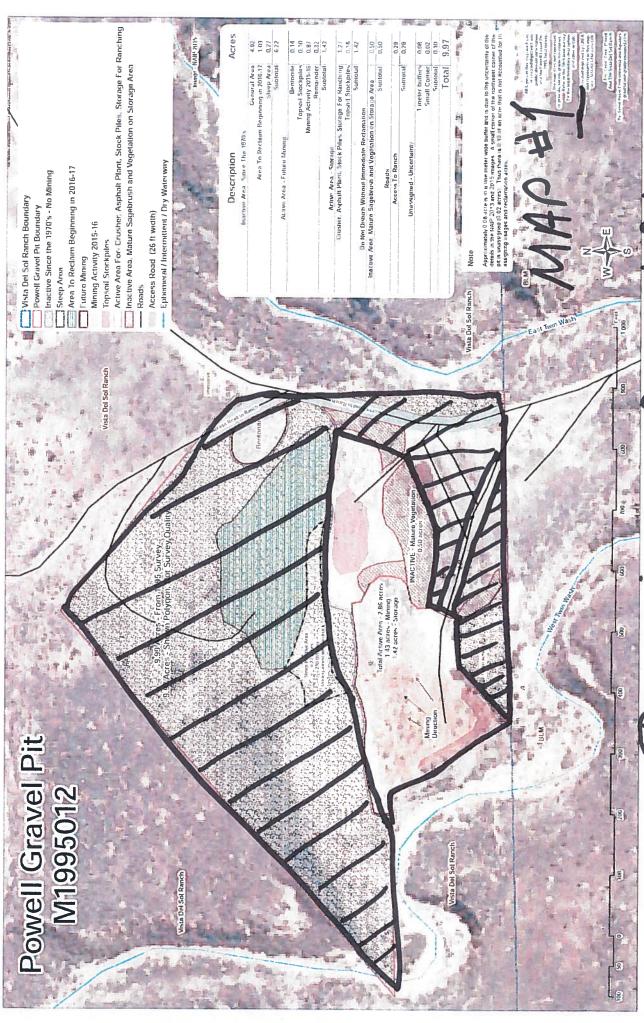
Map 1----Potential Release Area - 2018~2019

Map 2---Disturbed Area Work Zones

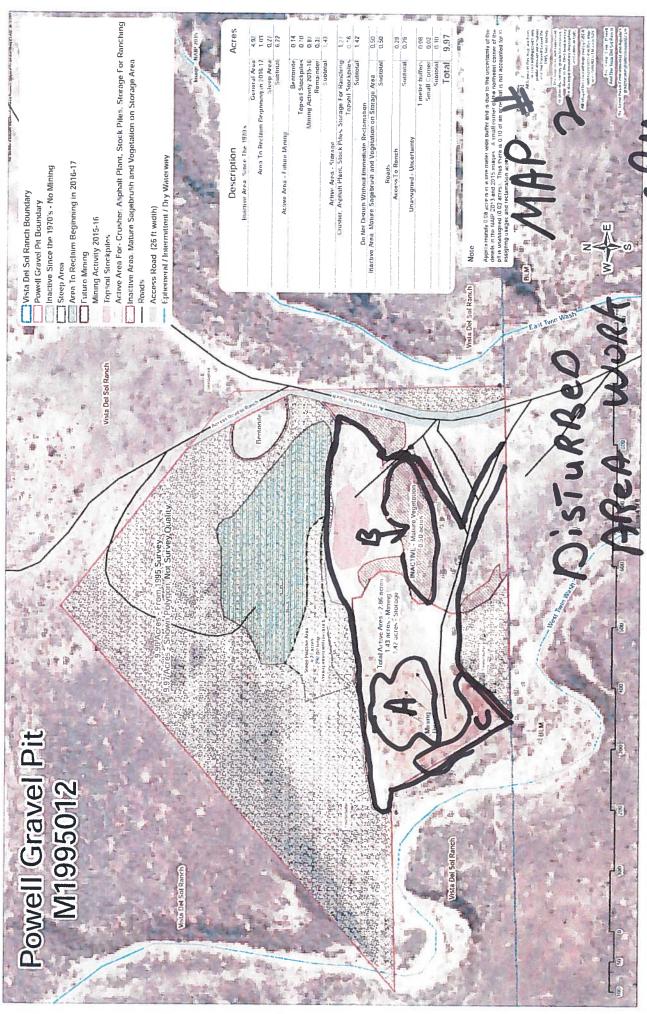
Map 3---Revegetation Area

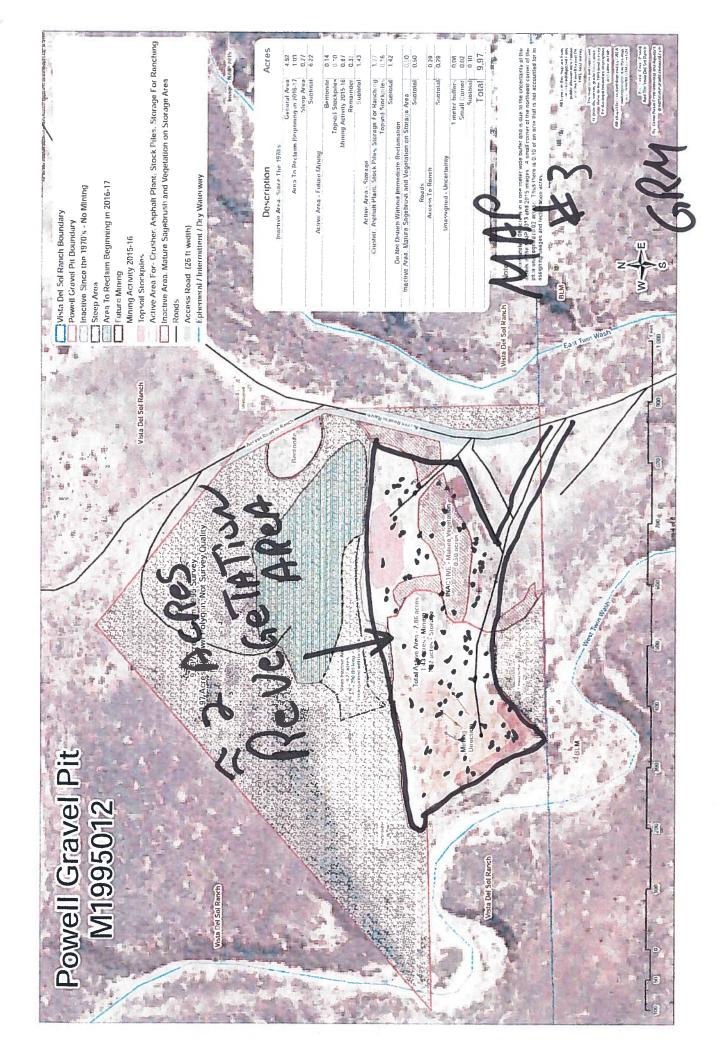
Map 4---Final Release Area 2019~2020

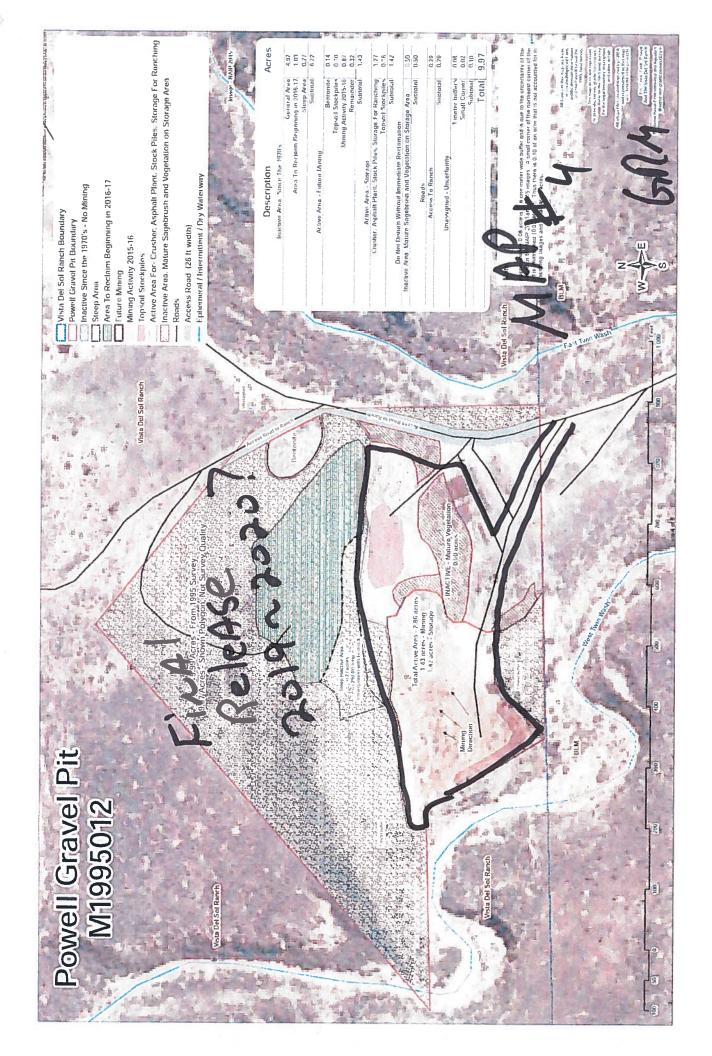
Financial Warranty Recalculation---GRM



Release FAIL 2018 - PSTENTIA







## **COST SUMMARY WORK**

Task description:

Grade slopes to 2:1

Site: Powell's Gravel Pit

Permit Action: SR-01

Permit/Job#: M1995012

## **PROJECT IDENTIFICATION**

Task #:

01A

State: County: Colorado

Abbreviation:

None

Date: 11/9/2017 User:

**GRM** 

Moffat

Filename:

SR-01-01a

Agency or organization name: DRMS

# TASK LIST (DIRECT COSTS)

Task	Description	Form	Fleet	Task Hours	Cost
	Description	Used	Size		
01a	Grade slopes to 2:1	DOZER	] 1	4.42	\$847.00
02a	Rip compacted areas	RIPPER	] 1	0.45	\$94.00
03a	Apply available topsoil	DOZER	] 1	1.54	\$251.00
04c	reveg of 2 acres	REVEGE	1	8.00	\$5,226.00
05a	Initial mobilization and early fall planting	MOBILIZE	1	2.57	\$1,753.00
		SUBTO	OTALS:	16.98	\$8,171

## **INDIRECT COSTS**

#### **OVERHEAD AND PROFIT:**

Liability insurance: Performance bond:

Job superintendent:

2.02

1.05

0.00 10.00 Total = \$165.05

Total = \$85.80

Total = \$0.00 Total = \$817.10

TOTAL O & P = \$1,067.95

CONTRACT AMOUNT (direct + O & P) = \$9,238.95

#### LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Profit:

Financial warranty processing (legal/related costs):

Engineering work and/or contract/bid preparation:

Reclamation management and/or administration:

0.00 0.00 5.00 Total = Total =

0.00 \$0.00 \$461.95

**CONTINGENCY:** 

3.00

Total = \$245.13

TOTAL INDIRECT COST = \$1,775.03

TOTAL BOND AMOUNT (direct + indirect) = \$9,946.03

GM

Material consistency:

Dozing method:

Visibility:

## **BULLDOZER WORK**

Task description: Grade slopes to 2:1 Site: Powell's Gravel Pit Permit Action: SR-01 Permit/Job#: M1995012 **PROJECT IDENTIFICATION** Task #: 01A State: Colorado Abbreviation: None 11/9/2017 Date: County: Moffat SR-01-01a Filename: User: **GRM** Agency or organization name: **DRMS HOURLY EQUIPMENT COST** Basic Machine: Cat D8T - 8SU 310 Horsepower: Blade Type: Semi-Universal Attachment: NA Shift Basis: 1 per day Data Source: (CRG) Cost Breakdown: **Utilization** % Ownership Cost/Hour: \$83.81 NA Operating Cost/Hour: \$66.17 100 Ripper own. Cost/Hour: \$0.00 NA Ripper op. Cost/Hour: \$0.00 0 Operator Cost/Hour: \$41.85 NA Total unit Cost/Hour: \$191.83 Total Fleet Cost/Hour: \$191.83 **MATERIAL QUANTITIES** Initial Volume: 2,000 Swell factor: 1.250 Loose volume: 2,500 LCY Source of estimated volume: Operator provided 10'H 350'L Source of estimated swell factor: Cat Handbook **HOURLY PRODUCTION** Average push distance: 50 feet Unadjusted hourly production: 1,400.0 LCY/hr Materials consistency description: Compacted fill or embankment 0.9 0 % Average push gradient: Average site altitude: 6,070 feet Material weight: 2,550 lbs/LCY Weight description: Earth - Dry packed Job Condition Correction Factor Source Operator Skill: 0.750 (AVG.)

0.900

1.000

1.000

(CAT HB))

(GEN.)

(AVG.)

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction:

0.4043

Adjusted unit production:

566.02 LCY/hr

Adjusted fleet production:

566.02 LCY/hr

# **JOB TIME AND COST**

Fleet size: 1 Dozer(s)

Unit cost: \$0.339/LCY

Total job time:

**4.42** Hours

Total job cost:

\$847

# **BULLDOZER RIPPING WORK**

7	Task description:	Rip comp	acted areas				
Site:	Powell's Gravel P	it	Permit Action:	SR-01	Perm	nit/Job#:	M1995012
<u> 1</u>	PROJECT IDENT	<b>IFICATION</b>					
	Task #: 02A		State: Colorado		Abbrev	viation:	None
	Date: 11/9/20	17 C	ounty: Moffat				SR-01-02a
	User: GRM		•				
	Agency or o	rganization name	e: DRMS				
<u>I</u>	HOURLY EQUIP	MENT COST					
	Basic Macl	nine: Cat D8T	- 8SU		Horsepower:	31	.0
	Ripper Attachn	nent: 3-Shank	Ripper		Shift Basis:	1 per	
					Data Source:	(CR	kG)
<u>C</u>	Cost Breakdown:						
	0	11.0.77		000.04	Utilization %		
		wnership Cost/Ho		\$83.81	NA		
		perating Cost/He		\$66.17	100		
		wnership Cost/He		\$7.55	NA 100		
		perating Cost/Ho Operator Cost/Ho		\$7.21 \$41.85	100 NA		
		otal Unit Cost/H		\$206.59	NA NA		
		otal Fleet Cost/He		6.59			
			Jui. <u>\$20</u>	0.39			
N	MATERIAL QUA	<u>NTITIES</u>	Sel	ected estimating	g method: Area		
A	Alternate Methods:						
nic:	NA		Bank Volume:	NA	BCY	N	A
rea:	0.25	acres	Rip Depth (ft):	2.00	Volume: 807		BCY o
	Sou	arce of estimated	quantity: Rip co	mpacted areas	18-24" deep - Opera	tor provide	ed
<u>F</u>	HOURLY PRODU	<u>ICTION</u>					
S	Seismic:						
_		Seism	ic Velocity:	NA	feet/secon	d	
	\ waa.		-				
<u>P</u>	Area:	Average Rip	ning Denth:	2.56	mnh		
		Average Rip		7.08	mph degrees		
		Average Ripp		75.00	feet		
			ozer Speed:	88.00	feet		
		Average Man		0.25	feet		
		Production p		0.664	acres/hour		
<u>J</u> (	ob Condition Correct	tion Factors					
	Unadjus	sted Hourly Unit	Production:	0.664	Acres/hr		
		S	ite Altitude:	6,070	feet		
			Ititude Adj:	1.00	(CAT HB)	)	
			Efficiency:	0.83	(1 shift/da		
			Correction:	0.83	multiplier		
		Adjusted Hour	ly Unit Production:	0.55	Acres/hr		
		-	y Fleet Production:	0.55	Acres/hr		
<u>J</u>	OB TIME AND C	COST			<del></del>		
	Fleet size:	1 Gra	ider(s)	Total job tin	ne: <b>0.4</b>	5	Hours
	Linit cost: #3	375.113 Per		Total :-1			
	Unit cost: \$3	773.113 Pet	acre	Total job co	st: \$9	4	

# **BULLDOZER WORK**

Powell's Gravel	l Pit	Permit Action:	SR-01	Permit/Job#:	M199501
		<del></del> -			1.1177501
PROJECT IDE	NTIFICATION OF THE PROPERTY OF	<u>ON</u>			
Task #: 03A		State: Colorado		Abbreviation:	None
	2017	County: Moffat		Filename:	SR-01-03a
User: GRM	1				
Agency o	r organization	name: DRMS			
HOURLY EQU	IPMENT CO	<u>OST</u>			
Basic Machine:	OBSOLET	E-Cat D8T - 8U			
Horsepower:	305				
Blade Type:	Universal				
Attachment:	NA				
Shift Basis:	1 per day				
Data Source:	(CRG)		_		
Cost Breakdown:					
	-		Utilization %		
Ownership Cost/I		\$52.86	NA 100		
Operating Cost/I		\$68.35	100		
Ripper own. Cost/I		\$0.00	NA		
Ripper op. Cost/I		\$0.00	0		
Operator Cost/I	Hour:	\$41.85	NA		
			INA .		
Total unit Cost/Hor	ur: \$163.0		NA NA		
Total unit Cost/Hor Total Fleet Cost/Hor	the second secon	06	INA INA		
		06	NA NA		
	our: \$163.0	06	NA NA		
Total Fleet Cost/Ho	JANTITIES	06	NA NA		
Total Fleet Cost/Ho	our: \$163.0	06	NA NA		
MATERIAL QU Initial Volume:	JANTITIES  1,000 1.125	06	NA NA		
MATERIAL OU  Initial Volume: Swell factor: Loose volume:	JANTITIES  1,000  1.125  1,125 LCY	06	NA NA		
MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated	JANTITIES  1,000  1.125  1,125 LCY  d volume:	2 ac @ 2-3"	NA		
MATERIAL OU  Initial Volume: Swell factor: Loose volume:	JANTITIES  1,000  1.125  1,125 LCY  d volume:	06	NA .		
MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated	JANTITIES  1,000 1.125 1,125 LCY d volume: d swell factor:	2 ac @ 2-3"	NA .		
MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated	JANTITIES  1,000 1.125 1,125 LCY d volume: d swell factor:  DUCTION	2 ac @ 2-3"	NA		
MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated	JANTITIES  1,000 1.125 1,125 LCY d volume: d swell factor:  DUCTION nce:	2 ac @ 2-3" Cat Handbook	NA NA		
MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push dista	JANTITIES  1,000  1.125  1,125 LCY d volume: d swell factor:  DUCTION  nce: production:	2 ac @ 2-3" Cat Handbook  50 feet 1,627.0 LCY/hr			
MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push dista Unadjusted hourly Materials consistent	JANTITIES  1,000 1.125 1,125 LCY d volume: d swell factor:  DUCTION  nce: production:  ncy description:	2 ac @ 2-3" Cat Handbook  50 feet 1,627.0 LCY/hr			
MATERIAL QU  Initial Volume:    Swell factor:    Loose volume: Source of estimated Source of estimated HOURLY PROD Average push dista Unadjusted hourly Materials consistent Average push grad	JANTITIES  1,000 1.125 1,125 LCY d volume: d swell factor:  DUCTION  nce: production:  acy description:  ient: 0 %	2 ac @ 2-3" Cat Handbook  50 feet 1,627.0 LCY/hr Consolidated stock			
MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push dista Unadjusted hourly Materials consistent	JANTITIES  1,000 1.125 1,125 LCY d volume: d swell factor:  DUCTION  nce: production:  ncy description  ient: 0 %	2 ac @ 2-3" Cat Handbook  50 feet 1,627.0 LCY/hr Consolidated stock			
MATERIAL QU  Initial Volume:    Swell factor:    Loose volume: Source of estimated Source of estimated HOURLY PROD Average push dista Unadjusted hourly Materials consistent Average push grad	JANTITIES  1,000 1.125 1,125 LCY d volume: d swell factor:  DUCTION  nce: production: cy description: de: 0 % 6,070	2 ac @ 2-3" Cat Handbook  50 feet 1,627.0 LCY/hr Consolidated stock			
MATERIAL QU  Initial Volume:    Swell factor:    Loose volume:  Source of estimated Source of estimated HOURLY PROD Average push dista Unadjusted hourly Materials consistent Average push grad Average site altitud	JANTITIES  1,000  1.125  1,125 LCY  d volume: d swell factor:  DUCTION  nce: production:  cy description: de: 6,070  2,550	2 ac @ 2-3" Cat Handbook  50 feet 1,627.0 LCY/hr Consolidated stock			
MATERIAL QU  Initial Volume:    Swell factor:    Loose volume:  Source of estimated Source of estimated  HOURLY PROD  Average push dista Unadjusted hourly  Materials consistent  Average push grad:    Average site altitud  Material weight:  Weight description	\$163.0   \$163.0     \$163.0     \$163.0     \$1,000     \$1,125	2 ac @ 2-3" Cat Handbook  50 feet 1,627.0 LCY/hr Consolidated stock feet lbs/LCY	pile 1.0		
MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push dista Unadjusted hourly Materials consistent Average push grad Average site altitud Material weight: Weight description Job Condition Core	\$163.0   \$163.0     \$163.0     \$163.0     \$1,000     \$1,125	2 ac @ 2-3" Cat Handbook  50 feet 1,627.0 LCY/hr Consolidated stock feet lbs/LCY			

1.000 1.000

(GEN.) (AVG.)

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4492

Adjusted unit production: 730.85

730.85 LCY/hr

Adjusted fleet production: 730

730.85 LCY/hr

# **JOB TIME AND COST**

Fleet size: 1 Dozer(s)
Unit cost: \$0.223/LCY

Total job time:

**1.54** Hours

Total job cost: \$251

# **REVEGETATION WORK**

7	Task description:	Reveg of 2 acres				
Site:	Powell's Gravel Pit	Permit Action:	SR-01	Permit/Job#:	M1995012	
-						

# PROJECT IDENTIFICATION

Task #:	04C	State:	Colorado	Abbreviation:	None
Date:	11/9/2017	County:	Moffat	Filename:	M012-04c
User:	GRM			-	

Agency or organization name: DRMS

# **FERTILIZING**

## Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Materials Cost/Acre	\$0.00

Application

Description		Cost /Acre
		\$
	Total Fertilizer Application Cost/Acre	\$0.00

# **TILLING**

Description		Cost /Acre
Hand raking (MEANS 32 91 13.23 0250)		\$1,328.58
	Total Tilling Cost/Acre	\$1,328.58

# **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Russian Wildrye - Bozoisky	8.00	32.14	\$50.64
Yellow Sweet Clover - Madrid	1.00	5.97	\$2.83
Slender Wheatgrass - Native	6.00	21.90	\$16.92
Siberian Wheatgrass	28.00	70.71	\$111.16
Kochia, Forage (Prostrate)	4.00	561.80	\$35.92
Totals Seed Mix	47.00	692.51	\$217.47

Application	

Description		Cost /Acre
Broadcast seeding [DMG]		\$267.22
	Total Seed Application Cost/Acre	***
	Total Seed Application Cost/Acre	\$267.22

# **MULCHING and MISCELLANEOUS**

#### **Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - 2,4D @ 1.0 pt/ac	1.00	ACRE	\$2.74	\$2.74
Total Mulch Materials Cost/Acre				\$2.74

Application

Description		Cost /Acre
Weed spray, truck, non-aquatic area, nox. [DMG]		\$71.50
	Total Mulch Application Cost/Acre	\$71.50

## **NURSERY STOCK PLANTING**

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

## **JOB TIME AND COST**

No. of Acres: 2

Cost /Acre: \$1,887.51

Estimated Failure Rate: 40%

\*Selected Replanting Work Items: TILLING, SEEDING

Cost /Acre\*: \$1,813.27

Initial Job Cost: \$3,775.02

Reseeding Job Cost: \$1,450.62

Total Job Cost: \$5,226
Job Hours: 8.00

# **EQUIPMENT MOBILIZATION/DEMOBILIZATION**

Task description:

Initial mobilization and early fall planting

Site: Powell's Gravel Pit

Permit Action: SR-01

Permit/Job#: M1995012

PROJECT IDENTIFICATION 05A

Task #: Date:

State: County:

Colorado Moffat

Abbreviation:

None

Filename: SR-01-05a

User:

**GRM** 

11/9/2017

Agency or organization name: DRMS

**EQUIPMENT TRANSPORT RIG COST** 

Shift basis:

1 per day

Cost Data Source:

**CRG** Data

Truck Tractor Description:

GENERIC ON-HIGHWAY TRUCK TRACTOR, 6X4, DIESEL POWERED,

400 HP (2ND HALF, 2006)

Truck Trailer Description:

GENERIC FOLDING GOOSENECK, DROP DECK EQUIPMENT

TRAILER (25T, 50T, AND 100T)

#### Cost Breakdown:

Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons
Ownership Cost/Hour:	\$16.63	\$18.37	\$22.33
Operating Cost/Hour:	\$44.38	\$46.13	\$50.07
Operator Cost/Hour:	\$27.66	\$27.66	\$27.66
Helper Cost/Hour:	\$0.00	\$25.39	\$25.39
Total Unit Cost/Hour:	\$88.67	\$117.55	\$125.45

#### **NON ROADABLE EQUIPMENT:**

Machine	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return Trip	DOT Permit
Description	Unit	Cost/hr/ unit	Cost/hr/uni	Size	Cost/hr/	Cost/hr/ fleet	Cost/ fleet
	(TONS)		t		fleet		
Cat D8T - 8SU	47.71	\$83.81	\$117.55	1	\$201.36	\$117.55	\$250.00
Drill/Broadcast	25.00	\$12.22	\$88.67	1	\$100.89	\$88.67	\$250.00
Seeder with							
Tractor							

Subtotals: \$302.25 \$206.22 \$500.00

#### **ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Light Duty Pickup, 4x4, 3/4 T.	\$12.26	1	\$12.26	\$12.26

Subtotals:

\$12.26

\$12.26

# **EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region:

Total one-way travel distance:

Average Travel Speed:

DINOSAUR

5.00
miles
mph

Total Non-Roadable Mob/Demob Cost \*

'\* two round trips with haul rig:

Total Roadable Mob/Demob Cost \*\*

\$1,749.78

\*\* one round trip, no haul rig:

\$3.50

# Transportation Cycle Time:

	Non- Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.14	0.14
Return Time (Hours):	0.14	0.14
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.29	0.29

## **JOB TIME AND COST**

Total job time: 2.57 Hours

Total job cost: \_\_\_\_\_\_\$1,753