

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:
Red Rock Pit	M-1978-315	Sand and gravel	Routt
INSPECTION TYPE:	INSPECTOR(S):	INSP. DATE:	INSP. TIME:
Preoperation Inspection	Dustin M. Czapla	April 17, 2012	11:30
OPERATOR:	<b>OPERATOR REPRESENTATIVE:</b>	TYPE OF OPERATION:	
Peabody Sage Creek Mining LLC	Jay James	110c - Construction Limited Impact	

<b>REASON FOR INSPECTION:</b>	<b>BOND CALCULATION TYPE:</b>	BOND AMOUNT:
Pre-operation Inspection	Complete Bond	\$31,550.00
DATE OF COMPLAINT:	POST INSP. CONTACTS:	JOINT INSP. AGENCY:
NA	None	None
WEATHER:	<b>DASPECTOR'S SIGNATURE:</b>	SIGNATURE DATE:
Clear	Anthe Curk	April 20, 2012

# **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. 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 <u>N</u>	(RD) ROADS <u>N</u>
(HB) HYDROLOGIC BALANCE <u>N</u>	(BG) BACKFILL & GRADING <u>N</u>	(EX) EXPLOSIVES <u>N</u>
(PW) PROCESSING WASTE/TAILING <u>N</u>	(SF) PROCESSING FACILITIES <u>N</u>	(TS) TOPSOIL <u>N</u>
(MP) GENL MINE PLAN COMPLIANCE- <u>N</u>	(FW) FISH & WILDLIFE <u>N</u>	(RV) REVEGETATION <u>N</u>
(SM) SIGNS AND MARKERS <u>N</u>	(SP) STORM WATER MGT PLAN <u>N</u>	(SB) COMPLETE INSP Y
(ES) OVERBURDEN/DEV. WASTE <u>N</u>	(SC) EROSION/SEDIMENTATION <u>N</u>	(RS) RECL PLAN/COMP <u>N</u>
(AT) ACID OR TOXIC MATERIALS $\underline{N}$		

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

# **OBSERVATIONS**

This pre-operation inspection was conducted by the Division of Reclamation, Mining and Safety (Division) as part of the review process for the 112c Conversion application (CN-1), which was submitted on May 9, 2011. Jay James, Jim Rolando, Dennis Bugay and Jen Hunt, representing the Operator, were present during this inspection. Photographs are included with this report in order to illustrate some of the conditions observed during this inspection.

The Red Rock Pit is located approximately 10 miles south of Hayden and accessed from CR53. The proposed 112c operation will increase the permitted acreage from 5 acres to 41.8 acres. The Division currently holds a financial warranty amount of \$31,550.00 for this site. The Division has reevaluated the reclamation costs for this site, in order to reflect the operational changes proposed through CN1, and determined that the current financial warranty amount held is sufficient at this time.

The topography at the site consists of fairly steep slopes, ranging from approximately 1H:1V to 2H:1V. The amount of vegetation on the undisturbed slopes at the site varies from bare to well vegetated (see photos). The dominant species appeared to be Gambel oak, Rabbitbrush, Indian ricegrass, and wheat grasses. Noxious weeds were not noted at the site.

No problems or violations were noted during this inspection.

Responses to this inspection report should be directed to Dustin Czapla at the Division of Reclamation, Mining and Safety, Grand Junction Field Office, 101 South 3rd Street, Room 301, Grand Junction, Colorado 81501, phone number (970) 243-6299.

# **PHOTOGRAPHS**

(All photographs were taken from CR53, beginning at the west end of the CN1 permit area and ending at the east end.)









# **Inspection Contact Address**

Jay James Peabody Sage Creek Mining LLC PO Box 250 36600 RCR 27 Hayden, CO 81639-0250

Enclosure: CIRCES Reclamation Cost Summary worksheets (4/20/2012)

CC:

# COST SUMMARY WORK

Red Roc	k Pit	Permit Action:	CN1	Permit/Job#:	M1978315
	<u>r identifi</u>				
Task #:	000	State: Colorado	and the second	Abbreviation:	None
1 ask #.				<b>C</b> '1	1115 000
Date:	4/20/2012	County: Routt		Filename:	M315-000

#### TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Finish grade mined 1H:1V slopes, spread fines	DOZER	1	23.16	\$4,629.03
02a	Rip base area in Phase 1	RIPPER	1	6.06	\$1,292.00
03a	Spread topsoil over base area	DOZER	1	1.15	\$230.62
04a	Revegetate base area in Phase 1	REVEGE	1	3.00	\$3,270.00
04b	Revegetate slopes in Phase 1	REVEGE	1	5.00	\$7,792.06
05a			4.22	\$2,258.43	
		\$19,472.14			

# **INDIRECT COSTS**

#### OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$393.34
Performance bond:	1.05	Total =	\$204.46
Job superintendent:	21.30	Total =	\$1,262.79
Profit:	10.00	Total =	\$1,947.21
		TOTAL O & $P =$	\$3,807.80
		CONTRACT AMOUNT (direct + O & P) =	\$23,279.94

#### LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): Engineering work and/or contract/bid preparation: Reclamation management and/or administration:	500.0 0.00 5.00	0 Total = Total =	500.00 \$0.00 \$1,164.00
CONTINGENCY:	0.00	Total =	\$0.00
		TOTAL INDIRECT COST =	\$5,471.80

# TOTAL BOND AMOUNT (direct + indirect) = <u>\$24,943.94</u>

#### BULLDOZER WORK

Task description:	Finish grade mined 1H:1V sl	opes, spread fines		
Red Rock Pit	Permit Action:	CNI	Permit/Job#:	M1978315
PROJECT IDENTIF	ICATION			
Task #: 01A	State: Colorado		Abbreviation:	None
Date: 4/20/2012	County: Routt		Filename:	M315-01a
User: DMC				
Agency or organ	nization name: DRMS			
HOURLY EQUIPME	<u>ENT COST</u>			
Basic Machine: Cat	D8T - 8U			
Horsepower: 310				
	iversal			
Attachment: NA				
	er day			
	RG)			
Cost Breakdown:				
<u>COSt Dicardown</u> .		Utilization %		
Ownership Cost/Hour:	\$58.56	NA		
Operating Cost/Hour:	\$102.84	100		
Ripper op. Cost/Hour:	\$0.00	0		
Operator Cost/Hour	\$28.40	D.T.A.		
Operator Cost/Hour:	\$38.49	NA		
Operator Cost/Hour: Total unit Cost/Hour:	\$38.49	NA		
-		NA		
Total unit Cost/Hour:	\$199.89	NA		
Total unit Cost/Hour:	\$199.89 <b>\$199.89</b>	NA		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT	\$199.89 <b>\$199.89</b> <u>TTIES</u>	NA		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume:13,3	\$199.89 <b>\$199.89</b> <b>`ITIES</b> 91	NA		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 13,3 Swell factor: 1.00	\$199.89 <b>\$199.89</b> <b>TITIES</b> 91 0	NA		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 13,3 Swell factor: 1.00	\$199.89 <b>\$199.89</b> <b>`ITIES</b> 91	NA		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 13,3 Swell factor: 1.00	\$199.89 <b>\$199.89</b> <b>TITIES</b> 91 0 <b>91</b> LCY	NA material in Phase 1 (8.3	ac.)	
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 13,3 Swell factor: 1.00 Loose volume: 13,3	\$199.89 <b>\$199.89</b> <b>TITIES</b> 91 0 <b>91</b> LCY me: Grade upper 1 foot of		ac.)	
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 13,3 Swell factor: 1.00 Loose volume: 13,3 Source of estimated volu	\$199.89 <b>\$199.89</b> <b>TITIES</b> 91 0 <b>91</b> LCY me: Grade upper 1 foot of		ac.)	
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       13,3         Swell factor:       1.00         Loose volume:       13,3         Source of estimated volu       Source of estimated swel	\$199.89 <b>\$199.89</b> <b>TTIES</b> 91 0 91 LCY me: Grade upper 1 foot of 1 factor: Cat Handbook		ac.)	
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       13,3         Swell factor:       1.00         Loose volume:       13,3         Source of estimated volu       Source of estimated swel         HOURLY PRODUCC	\$199.89 <b>\$199.89</b> <b>`ITIES</b> 91 0 <b>91</b> LCY me: Grade upper 1 foot of 1 factor: Cat Handbook <b>TION</b>		ac.)	
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 13,3 Swell factor: 1.00 Loose volume: 13,3 Source of estimated volu Source of estimated volu Source of estimated swel HOURLY PRODUCT Average push distance:	\$199.89 <b>\$199.89</b> <b>TITIES</b> 91 0 91 LCY me: Grade upper 1 foot of 1 factor: Cat Handbook <b><u>FION</u></b> 50 feet		ac.)	
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       13,3         Swell factor:       1.00         Loose volume:       13,3         Source of estimated volu       swell         Source of estimated swell         HOURLY PRODUCC	\$199.89 <b>\$199.89</b> <b>TITIES</b> 91 0 91 LCY me: Grade upper 1 foot of 1 factor: Cat Handbook <b><u>FION</u></b> 50 feet		ac.)	
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       13,3         Swell factor:       1.00         Loose volume:       13,3         Source of estimated volu       Source of estimated swel         HOURLY PRODUCC       Average push distance:	\$199.89 <b>\$199.89</b> <b>TTIES</b> 91 0 <b>91</b> LCY me: Grade upper 1 foot of 1 factor: Cat Handbook <b>TION</b> 50 feet ction: 1,627.0 LCY/hr	material in Phase 1 (8.3	ac.)	
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       13,3         Swell factor:       1.00         Loose volume:       13,3         Source of estimated volu       Source of estimated swel         HOURLY PRODUC'         Average push distance:         Unadjusted hourly produ         Materials consistency dest	\$199.89 <b>\$199.89</b> <b>TTIES</b> 91 0 91 LCY me: Grade upper 1 foot of 1 factor: Cat Handbook <b>FION</b> 50 feet ction: 1,627.0 LCY/hr scription: Compacted fill or en	material in Phase 1 (8.3	ac.)	
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       13,3         Swell factor:       1.00         Loose volume:       13,3         Source of estimated volu       Source of estimated swel         HOURLY PRODUCT       Average push distance:         Unadjusted hourly produ       Materials consistency deal         Average push gradient:       Stationary	\$199.89 <b>\$199.89</b> <b>\$171ES</b> 91 0 91 LCY me: Grade upper 1 foot of 1 factor: Cat Handbook <b>FION</b> ction: 1,627.0 LCY/hr scription: Compacted fill or e 0 %	material in Phase 1 (8.3	ac.)	
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       13,3         Swell factor:       1.00         Loose volume:       13,3         Source of estimated volu       Source of estimated swel         HOURLY PRODUC'         Average push distance:         Unadjusted hourly produ         Materials consistency dest	\$199.89 <b>\$199.89</b> <b>TTIES</b> 91 0 91 LCY me: Grade upper 1 foot of 1 factor: Cat Handbook <b>FION</b> 50 feet ction: 1,627.0 LCY/hr scription: Compacted fill or en	material in Phase 1 (8.3	ac.)	
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       13,3         Swell factor:       1.00         Loose volume:       13,3         Source of estimated volu       3         Source of estimated volu       3         MOURLY PRODUCT       Average push distance:         Unadjusted hourly produ       3         Materials consistency deal       4         Average push gradient:       4         Average site altitude:       1	\$199.89 <b>\$199.89</b> <b>\$199.89</b> <b>\$17TIES</b> 91 0 91 LCY me: Grade upper 1 foot of 1 factor: Cat Handbook <b>FION</b> 50 feet ction: 1,627.0 LCY/hr scription: Compacted fill or e 0 % 6,300 feet	material in Phase 1 (8.3	ac.)	
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       13,3         Swell factor:       1.00         Loose volume:       13,3         Source of estimated volu       Source of estimated swel         HOURLY PRODUCT       Average push distance:         Unadjusted hourly produ       Materials consistency deal         Average push gradient:       Stationary	\$199.89 <b>\$199.89</b> <b>\$171ES</b> 91 0 91 LCY me: Grade upper 1 foot of 1 factor: Cat Handbook <b>FION</b> ction: 1,627.0 LCY/hr scription: Compacted fill or e 0 %	material in Phase 1 (8.3	ac.)	
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       13,3         Swell factor:       1.00         Loose volume:       13,3         Source of estimated volu       3         Source of estimated volu       3         MOURLY PRODUCT       Average push distance:         Unadjusted hourly produ       3         Materials consistency deal       4         Average push gradient:       4         Average site altitude:       1	\$199.89 <b>\$199.89</b> <b>\$199.89</b> <b>\$17TIES</b> 91 0 91 LCY me: Grade upper 1 foot of 1 factor: Cat Handbook <b>FION</b> 50 feet ction: 1,627.0 LCY/hr scription: Compacted fill or e 0 % 6,300 feet	material in Phase 1 (8.3 mbankment 0.9	ac.)	
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       13,3         Swell factor:       1.00         Loose volume:       13,3         Source of estimated volu       Source of estimated volu         Source of estimated swel       HOURLY PRODUCC         Average push distance:       Unadjusted hourly produ         Materials consistency des       Average push gradient:         Average site altitude:       Material weight:         Weight description:       Verage	\$199.89 <b>\$199.89</b> <b>\$199.89</b> <b>TTIES</b> 91 0 91 LCY me: Grade upper 1 foot of 1 factor: Cat Handbook <b>TION</b> <u>50 feet</u> ction: 1,627.0 LCY/hr scription: Compacted fill or e <u>0 %</u> <u>6,300 feet</u> 2,900 lbs/LCY Decomposed rock - 50% Rock	material in Phase 1 (8.3) mbankment 0.9	ac.)	
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       13,3         Swell factor:       1.00         Loose volume:       13,3         Source of estimated volu       Source of estimated volu         Source of estimated swel       HOURLY PRODUCT         Average push distance:       Unadjusted hourly produ         Materials consistency des       Average push gradient:         Average site altitude:       Material weight:         Weight description:       Job Condition Correction	\$199.89 <b>\$199.89</b> <b>\$199.89</b> <b>TTIES</b> 91 0 91 LCY me: Grade upper 1 foot of 1 factor: Cat Handbook <b>TION</b> <b>50</b> feet 1,627.0 LCY/hr scription: Compacted fill or end 0 % 6,300 feet 2,900 lbs/LCY Decomposed rock - 50% Rock <b>1</b> Factor	material in Phase 1 (8.3 methydronymetry 1 (8.3 methydronymetry 2 (8	ac.)	
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       13,3         Swell factor:       1.00         Loose volume:       13,3         Source of estimated volu       Source of estimated volu         Source of estimated swel       HOURLY PRODUCC         Average push distance:       Unadjusted hourly produ         Materials consistency des       Average push gradient:         Average site altitude:       Material weight:         Weight description:       Verage	\$199.89 <b>\$199.89</b> <b>TTIES</b> 91 0 91 LCY me: Grade upper 1 foot of 1 factor: Cat Handbook <b>TION</b> 50 feet ction: 1,627.0 LCY/hr scription: Compacted fill or e 0 % 6,300 feet 2,900 lbs/LCY Decomposed rock - 50% Rock 1 Factor Skill: 0.750	material in Phase 1 (8.3) mbankment 0.9	ac.)	

1.000	(AVG.)
0.000	(1 SHIFT/DAY)
0.800	(FND-RF)
1.000	(CAT HB)
1.000	(CAT HB)
0.793	(CAT HB)
1.000	(PAT)
0.3554	
	1.000 1.000 0.793 1.000

#### JOB TIME AND COST

Adjusted fleet production: 578.24 LCY/hr

Fleet size:	1 Dozer(s)	
Unit cost:	\$0.346/LCY	
Total job time:	23 16 Hours	

Total job time:	<b>23.10</b> Hours
Total job cost:	\$4,629.03

# BULLDOZER RIPPING WORK

	Task description	Rip base	area in Phase 1			
Site:	Red Rock Pit	NG 1 N ANANY	Permit Action:	CN1	Permit/Job#:	M1978315
	PROJECT ID	<b>ENTIFICATION</b>				
	Task #: 02	A	State: Colorado		Abbreviation:	None
			County: Routt		Filename:	M315-02a
	User: DN	МС				
	Agency	or organization nan	ne: DRMS			
	HOURLY EQ	UIPMENT COST	-			
	Basic	Machine: Cat D8	T - 8U	]	Horsepower:	310
	Ripper Attachment: 3-Shank Ripper				er day	
				]	Data Source: (C	CRG)
	Cost Breakdown	<u>.</u>				
					Itilization %	
		Ownership Cost/H			NA	
	Dia	Operating Cost/H			100	
	Kip	per Operating Cost/H Operator Cost/H			NA	
		Total Unit Cost/H			INA	
		Total Fleet Cost/H				
	MATERIAL (		Selec	cted estimating m	ethod: Area	
	Alternate Metho	<u>ds:</u>				
Seismic:	NA			NA		NA
Area:	3.00	acres	Rip Depth (ft):	2.00	Volume: 9,680	BCY or CCY
		Source of estimate	d quantity: Mine/R	ec. Plan Maps		
	HOURLY PR	ODUCTION				
	Seismic:					
	<u>Beisinie.</u>	Seis	mic Velocity:	NA	feet/second	
			J			
	Area:	Augrage D	inning Donth	2.56	mah	
			ipping Depth:	7.08	mph	
			pping Width:	50.00	degrees feet	
			Dozer Speed:	88.00	feet	
		Ų	neuver Time:	0.25	feet	
		-	per unit area:	0.596	acres/hour	
	Job Condition C	orrection Factors				
	U	nadjusted Hourly Un	it Production:	0.596	Acres/hr	
			Site Altitude:	6,300	feet	
			Altitude Adj:	1.00	(CAT HB)	
		Jo	b Efficiency:	0.83	(1 shift/day)	
			et Correction:	0.83	multiplier	
		A dinated II.	urly Unit Production:	0.49	Acres/hr	
		-	rly Fleet Production:	0.49	Acres/hr	
	JOB TIME A	·	-			
	Fleet size:		rader(s)	Total job time:	6.06	Hours
	_			-		
	Unit cost:	\$430.813 P	er acre	Total job cost:	\$1,292.00	

#### BULLDOZER WORK

Task description:	Spread topsoil over base area	l		
Red Rock Pit	Permit Action:	CN1	Permit/Job#:	M1978315
PROJECT IDENTI	FICATION			
Task #: 03A	State: Colorado		Abbreviation:	None
Date: 4/20/2012	County: Routt		Filename:	M315-03a
User: DMC			-	
Agency or org	anization name: DRMS			
HOURLY EQUIPM	ENT COST			
Basic Machine:C	at D8T - 8U	_		
Horsepower: 31				
51	niversal			
Attachment: N				
	per day			
Data Source: (C	CRG)			
Cost Breakdown:				
		Utilization %		
Ownership Cost/Hour:		NA		
Operating Cost/Hour:		100		
Ripper op. Cost/Hour:		0		
Operator Cost/Hour:	\$38.49	NA		
Total unit Cost/Hour:	\$199.89			
Total Fleet Cost/Hour:	\$199.89			
MATERIAL QUAN	TITIES			
Initial Volume: 1,6				
Swell factor: 1.0				
Loose volume: 1,6	13 LCY			
Source of estimated vol	ume: Approx. 3 ac. @ 4" de	pth		
Source of estimated swe				
HOURLY PRODUC	TION			
Average push distance:	50 feet			
Unadjusted hourly prod	uction: 1,627.0 LCY/hr			
Materials consistency de	escription: Loose stockpile 1.2			
Average push gradient:	0 %			
Average site altitude:	6,300 feet			
5				
Material weight:	1,600 lbs/LCY			
Weight description:	Top Soil			
Job Condition Correction		Source		
Operato		(AVG.)		
Material consis		(CAT HB)		
Dozing m	nethod: 1.000	(GEN.)		

Visibili	ty: 1.000	(AVG.)
Job efficient	cy: 0.830	(1 SHIFT/DAY)
Spoil pi	le: 0.800	(FND-RF)
Push gradie	nt: 1.000	(CAT HB)
Altitud	le: 1.000	(CAT HB)
Material Weig	ht: 1.438	(CAT HB)
Blade typ	be: 1.000	(PAT)
Net correction	on: 0.8593	
Adjusted unit production:	1,398.08 LCY/hr	
Adjusted fleet production:	1398.08 LCY/hr	

#### JOB TIME AND COST

Fleet size:	1 Dozer(s)	
Unit cost:	\$0.143/LCY	
Total job time:	1.15 Hours	

i otal job time.	1.15 110415	
Total job cost:	\$230.62	

# **REVEGETATION WORK**

Task description:	Revegetate base ar	ea in Phase I			
Red Rock Pit	Permit Action:   CN1   Permit/Job#:		: <u>M1978315</u>		
PROJECT IDENT	<b>IFICATION</b>				
Task #: 04A	State:	Colorado		Abbreviation:	None
Date: 4/20/201	2 County:	Routt		Filename:	M315-04a
User: DMC					
Agency or or	ganization name:DRM	15			
ERTILIZING					
Materials					
Description		Units / Acre	Unit	Cost / Unit	Cost /Acre
				\$	\$
		То	tal Fertilizer	• Materials Cost/Acre	\$0.00
Application					
Description					Cost /Acre
					\$
		Total	l Fertilizer A	pplication Cost/Acre	\$0.00
TILLING					
Description					Cost /Acre
Chisel plowing {DM					\$86.71
Weed control spraying	ng (MEANS 31 31 16.13	3100)			\$145.20

#### **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Bitterbrush, Antelope	1.00	0.31	\$19.83
Indian Ricegrass - Native	2.50	8.09	\$16.50
Intermediate Wheatgrass - Oahe	3.00	6.40	\$6.42
Slender Wheatgrass - Native	3.00	10.95	\$6.60
Western Wheatgrass - Arriba	2.50	6.31	\$9.00
Sagebrush, Mountain or Big	0.25	13.20	\$8.25
Bluebunch Wheatgrass - Goldar	5.00	16.07	\$26.90
Totals Seed Mix	17.25	61.34	\$93.50

\$231.91

**Total Tilling Cost/Acre** 

# Application

Description		Cost /Acre
Drill seeding {DMG}		\$90.11
Т	otal Seed Application Cost/Acre	\$90.11

#### **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - 2,4D @ 2.0 pt/ac	1.00	ACRE	\$2.40	\$2.40
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$164.00	\$328.00
	\$330.40			

# Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$65.89
Weed spray, truck, non-aquatic area, nox. [DMG]		\$60.19
	Total Mulch Application Cost/Acre	\$126.08

### **NURSERY STOCK PLANTING**

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

#### JOB TIME AND COST

	No. of Acres:	3	Cost /Acre:	\$872.00	
Estimated Failure Rate:		25%	Cost /Acre*:	\$872.00	
*Selected Replanting Work Items:		TILLING, SEEDING	G, MULCHING		
Initial Job Cost: Reseeding Job Cost:					

Total Job Cost:	\$3,270.00	
Job Hours:	3.00	

# **REVEGETATION WORK**

Task description: Revegeta	te slopes in Phase 1	1				
Red Rock Pit	Permit Action:	_CN1			Permit/Job#:	M1978315
PROJECT IDENTIFICATION						
Task #: 04B	State: Colorado				Abbreviation:	None
Date: 4/20/2012 C User: DMC	ounty: Routt				Filename:	M315-04b
Agency or organization nam	e: DRMS					
FERTILIZING						
Materials						
Description	Un Ac	its / re	Unit	Cos	t / Unit	Cost /Acre
				\$		\$
		Tot	tal Fertilize	er Material	s Cost/Acre	\$0.00
Application Description			20 T			Cost /Acre
	MARC					\$
		Total	Fertilizer	Applicatio	n Cost/Acre	\$0.00
TILLING Description Chiral advantage (DMC)						Cost /Acre
Chisel plowing {DMG} Weed control spraying (MEANS 31	31 16 13 3100)					\$86.71 \$145.20
	51 10:15 51007		1	fotal Tillin	g Cost/Acre	\$231.91
SEEDING						
Seed Mix				Rate –	Seeds	Cost /Acre

Seed Mix	PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Bitterbrush, Antelope	2.00	0.62	\$39.66
Indian Ricegrass - Native	5.00	16.18	\$33.00
Intermediate Wheatgrass - Oahe	6.00	12.81	\$12.84
Slender Wheatgrass - Native	6.00	21.90	\$13.20
Western Wheatgrass - Arriba	5.00	12.63	\$18.00
Sagebrush, Mountain or Big	0.50	26.40	\$16.50
Bluebunch Wheatgrass - Goldar	10.00	32.14	\$53.80
Totals Seed Mix	34.50	122.68	\$187.00

#### Application

Description		Cost /Acre
Broadcast seeding [DMG]		\$255.76
	Total Seed Application Cost/Acre	\$255.76

#### **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - 2,4D @ 2.0 pt/ac	1.00	ACRE	\$2.40	\$2.40
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$164.00	\$328.00
	Total Mulch Materials Cost/Acre			

#### Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$65.89
Weed spray, hand, non-aquatic area, nox. [DMG]		\$175.77
	Total Mulch Application Cost/Acre	\$241.66

# **NURSERY STOCK PLANTING**

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

#### JOB TIME AND COST

	No. of Acres:	5	Cost /Acre:	\$1,246.73
Estimate	ed Failure Rate:	25%	Cost /Acre*:	\$1,246.73
*Selected Replanti	ng Work Items:	TILLING, SEEDING, MU	LCHING	
Initial Job Cost:	\$6,233.65			
Reseeding Job Cost:	\$1,558.41			

Reseeding Job Cost:	\$1,558.41	
Total Job Cost:	\$7,792.06	
Job Hours:	5.00	

# EQUIPMENT MOBILIZATION/DEMOBILIZATION

Red Rock Pit		Permit A	ction: CN1		Pe	rmit/Job#:	M197	78315
PROJECT IDE	NTIFICATI	ION						
Task #: 05A		State: Co	lorado		Abbr	eviation:	None	
	/2012		outt			ilename:	M315	-05a
User: DMC	2							
Agency o	r organizatior	n name: DRMS						
EQUIPMENT 1	RANSPOR	T RIG COST						
					Shift ba	asis: 1	1 per da	y
					Cost Data Sou	rce: C	CRG Da	ta
Truck	Tractor Desc	ription GENI	ERIC ON-HIGH	WAY TR	UCK TRACTO	DR 6X4 D	DIESEL	POWFRED
Truck	1140101 2000				(2ND HALF,		/ LOLL	I O W LICED,
Truck	Trailer Desc	ription: GENE	RIC FOLDING	GOOSEN	ECK, DROP I	DECK EOU	UIPME	NT TRAILER
Truck	Trailer Desc	ription: GENE	RIC FOLDING		IECK, DROP I , 50T, AND 10		UIPMEI	NT TRAILER
	t Trailer Desc	ription: GENE	RIC FOLDING				UIPME	NT TRAILER
	x Trailer Desc	ription: GENE 	RIC FOLDING				UIPMEN	NT TRAILER
<u>Cost Breakdown:</u> Available Rig Caj	oacities	0-25 Tons	RIC FOLDING	(25T				NT TRAILER
<u>Cost Breakdown:</u> Available Rig Caj Ownership	oacities Cost/Hour:	- 	<b>26-50 Tons</b> \$18.37	(25T 51 \$	+ Tons 22.33		UIPME	NT TRAILER
Cost Breakdown: Available Rig Caj Ownership Operating	oacities Cost/Hour: Cost/Hour:	<b>0-25 Tons</b> \$16.63 \$44.38	<b>26-50 Tons</b> \$18.37 \$46.13	(25T 51 \$ \$	+ Tons 22.33 50.07		UIPME	NT TRAILER
<u>Cost Breakdown:</u> Available Rig Caj Ownership Operating Operator	Dacities 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	(25T 51 \$ \$ \$ \$	+ Tons 22.33 50.07 27.66		UIPME	NT TRAILER
Cost Breakdown: Available Rig Caj Ownership Operating Operator Helper	Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	<b>0-25 Tons</b> \$16.63 \$44.38 \$27.66 \$0.00	<b>26-50 Tons</b> \$18.37 \$46.13 \$27.66 \$25.39	(25T 51 \$ \$ \$ \$ \$ \$ \$	+ Tons 22.33 50.07 27.66 25.39		UIPME	NT TRAILER
Cost Breakdown: Available Rig Caj Ownership Operating Operator Helper	Dacities 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	(25T 51 \$ \$ \$ \$ \$ \$ \$	+ Tons 22.33 50.07 27.66			NT TRAILER
Cost Breakdown: Available Rig Caj Ownership Operating Operator Helper Total Unit	Cost/Hour: 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	(25T 51 \$ \$ \$ \$ \$ \$ \$	+ Tons 22.33 50.07 27.66 25.39			NT TRAILER
Cost Breakdown: Available Rig Caj Ownership Operating Operator Helper Total Unit	Cost/Hour: 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	(25T 51 \$ \$ \$ \$ \$ \$ \$	+ Tons 22.33 50.07 27.66 25.39			NT TRAILER
Cost Breakdown: Available Rig Caj Ownership Operating Operator Helper Total Unit	<b>Dacities</b> Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: <b>LE EQUIP</b>	0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00 \$88.67 MENT:	<b>26-50 Tons</b> \$18.37 \$46.13 \$27.66 \$25.39 \$117.55	(25T 51 \$ \$ \$ \$ \$ \$ \$	+ Tons 22.33 50.07 27.66 25.39 125.45	<u>00T)</u>		
Cost Breakdown: Available Rig Caj Ownership Operating Operator Helper Total Unit NON ROADAB Machine	Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPI Weight/	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	(25T 51 \$ \$ \$ \$ \$ \$ \$ \$	+ Tons 22.33 50.07 27.66 25.39 125.45 Haul Trip		Trip	
Cost Breakdown: Available Rig Caj Ownership Operating Operator Helper Total Unit NON ROADAB Machine	Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPI Weight/ Unit	0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00 \$88.67 MENT:	<b>26-50 Tons</b> \$18.37 \$46.13 \$27.66 \$25.39 \$117.55	(25T 51 \$ \$ \$ \$ \$ \$ \$	+ Tons 22.33 50.07 27.66 25.39 125.45 Haul Trip Cost/hr/	Return 7	Trip	DOT Permi
Cost Breakdown: Available Rig Cap Ownership Operating Operator Helper Total Unit NON ROADAB Machine Description	Acities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPI Weight/ Unit (TONS)	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	(25T 51 \$ \$ \$ \$ \$ \$ \$ \$	+ Tons 22.33 50.07 27.66 25.39 125.45 Haul Trip	Return 7	Trip	DOT Permi
Cost Breakdown: Available Rig Cap Ownership Operating Operator Helper Total Unit NON ROADAB Machine Description Cat D8T - 8U Drill/Broadcast	Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPI Weight/ Unit	0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00 \$88.67 MENT: Owner ship Cost/hr/ unit	<b>26-50 Tons</b> \$18.37 \$46.13 \$27.66 \$25.39 \$117.55 Haul Rig Cost/hr/unit	(25T	+ Tons 22.33 50.07 27.66 25.39 125.45 Haul Trip Cost/hr/ fleet	Return 7 Cost/hr/	Trip	DOT Permi Cost/ fleet
<u>Cost Breakdown:</u> Available Rig Caj Ownership Operating Operator Helper	Acities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPI Weight/ Unit (TONS) 53.70	0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00 \$88.67 MENT: Owner ship Cost/hr/ unit \$65.28	<b>26-50 Tons</b> \$18.37 \$46.13 \$27.66 \$25.39 \$117.55 Haul Rig Cost/hr/unit \$125.45	(25T 51 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	+ Tons 22.33 50.07 27.66 25.39 125.45 Haul Trip Cost/hr/ fleet \$190.73	Return 7 Cost/hr/ \$125.45	Trip	DOT Permi Cost/ fleet \$250.00

# **ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Light Duty Pickup, 4x4, 1 T. Crew	\$25.30	1	\$25.30	\$25.30
		Subtotals:	\$25.30	\$25.30

#### **EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region:	CRAIG	
Total one-way travel distance:	25.00	miles
Average Travel Speed:	45.00	mph
Total Non-Roadable Mob/Demob Cost * '* two round trips with haul rig:	\$2,230.32	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$28.11	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.56	0.56
Return Time (Hours):	0.56	0.56
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	2.11	1.11

#### JOB TIME AND COST

Total job time: 4.22 Hours

Total job cost: \$2,258.43