

# 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:
4406 Alaska, LLC Pit #1		M-2010-036	Clay (general), grave	Phillips
<b>INSPECTION TYPE:</b>		INSPECTOR(S):	INSP. DATE:	INSP. TIME:
Surety-Related Inspection		Brock Bowles	January 12, 2022	13:00
OPERATOR:		<b>OPERATOR REPRESENTATIVE:</b>	<b>TYPE OF OPERAT</b>	TION:
4406 Alaska LLC		Chris Eisenhard	112c - Construction H	Regular Operation
<b>REASON FOR INSPECTION:</b>		BOND CALCULATION TYPE:	<b>BOND AMOUNT:</b>	
Surety Related		Complete Bond	\$59,000.00	
DATE OF COMPLAINT:		POST INSP. CONTACTS:	JOINT INSP. AGEN	NCY:
NA		None	None	
WEATHER:	INSPE	CTOR'S SIGNATURE:	SIGNATURE DATI	E:
Clear	Br	al Sauls	January 26, 2022	

The following inspection topics were identified as having Problems or Possible Violations. OPERATORS SHOULD READ THE FOLLOWING PAGES CAREFULLY IN ORDER TO ASSURE COMPLIANCE WITH THE TERMS OF THE PERMIT AND APPLICABLE RULES AND REGULATIONS. If a Possible Violation is indicated, you will be notified under separate cover as to when the Mined Land Reclamation Board will consider possible enforcement action.

### **INSPECTION TOPIC:** Sediment Control

**PROBLEM/POSSIBLE VIOLATION:** Problem: Erosion gullies and ruts were observed on-site. This is a problem at this time for failure to protect the affected land from erosion pursuant to C.R.S. 34-32.5-116 (4) (j). **CORRECTIVE ACTIONS:** The operator shall provide photo documentation to the Division verifying erosion gullies and ruts have been repaired, and that the site has have been reconstructed and stabilized to prevent erosion damage by the corrective action date.

**CORRECTIVE ACTION DUE DATE:** 3/28/22

### **INSPECTION TOPIC:** Signs & Markers

**PROBLEM/POSSIBLE VIOLATION:** Problem: The mine identification sign was not posted at the entrance of the mine site. This is a problem for failure to post a mine identification sign as required by Section 3.1.12(1) of the rule. The Operator shall, at the entrance of the mine site post a sign, which shall be clearly visible from the

access road, with a minimum size equaling one hundred and eighty-seven (187) square inches, such as eleven (11) inches in height and seventeen (17) inches in width, with appropriate font size, with the following: the name of the Operator, a statement that a reclamation permit for the operation has been issued by the Colorado Mined Land Reclamation Board; and the permit number.

**CORRECTIVE ACTIONS:** The operator shall, at the entrance of the mine site, post a sign which shall be clearly visible from the access road with the following: the name of the operator, a statement that a reclamation permit for the operation has been issued by the Colorado Mined Land Reclamation Board; and the permit number. The operator shall submit photo documentation that a proper sign has been posted by the corrective action date.

**CORRECTIVE ACTION DUE DATE:** 3/28/22

# **OBSERVATIONS**

This inspection was conducted by Brock Bowles of the Division of Reclamation, Mining and Safety (Division). Chris Eisenhard of 4406 Alaska, LLC (Operator) was present for the inspection. The pit is located about 7 miles south of Haxtun. The site is an active 112c operation with 108 acres permitted and the post-mining land use is wildlife. At the time of the inspection it was partly cloudy, cool, and the ground was dry.

This inspection was conducted as part of the SO3 application process. The operator changed from Rick Ensminger to 4406 Alaska, LLC. The application was approved on December 27,2021. This inspection looked at the site conditions for the purpose of evaluating the reclamation cost estimate as required by Rule 1.12.1(2).

The mine entrance sign was missing. Mr. Eisenhard said that the former operator took the sign down when SO3 was approved. A new sign with the required information needs to be installed within 60 days of this report. See corrective action box above for more information.

The northern permit boundary is CR 16. The eastern boundary is 130 feet west of CR 3 and is marked with a tpost. The southern boundary is marked by t-posts along the creek bank and agriculture field. The western boundary is 200 feet east of CR 97 but was not checked as it is more than 3,000 feet from current mining operations. Mining operations are approved to take place in 7 areas as shown on Exhibit C of the CN1 application. Mining is currently only bonded to take place in areas 1 and 2. The western side of area 2 was marked with t-posts (photo 1).

Pit area 2 is about 4-6 feet deep (photo 2). No mining was taking place and no equipment was on site. The sides of the pit were sloped to about 1h:1v. The area 2 pit is separated from the creek by a berm that was left in place by the mining operations. No standing water was in the pit, although there are water marks on the pit walls (photo 3) indicating the pit was filled with water, most likely during the heavy rains of the previous summer. The upstream end of the berm was breached during the rain events and water entered the pit area on the western side of the pit. The water was able to exit the pit area on the eastern, downstream side of the pit which is open to the creek.

The main topsoil stock pile is located north of pit area 2. The pile is well vegetated and appears to be stable (photo 4). A second topsoil stock pile is located on the west side of area 2, is well vegetated and appears stable.

The pit in area 1 is about 1 acre is area, 4-6 feet deep and the pit walls are 1h:1v. There was no standing water in the pit but there was debris from the flood event (photo 5). A small excavation is in the eastern side of area 1. This pit is well vegetated and did not contain water. The topsoil pile for this pit is on the southern edge of the pit and is also well vegetated and stable (photo 6).

In the northern part of area 1 there are a couple of gullies about 12" deep that are close to CR 16 (photo 7). These gullies need to be repaired to prevent further erosion within 60 days of this report. See corrective action box above for more information.

The cost estimate for reclaiming the 21.1 disturbed acres (areas 1 and 2) was calculated as \$58,184. The Division currently holds a bond for \$59,000 which is adequate to cover reclamation costs. The cost estimate is attach to this report.



# **PHOTOGRAPHS**

Photo 1 – Western marker of area 2



Photo 2 – Pit area 2 facing southeast



Photo 3 – Pit area 2 facing south west



Photo 4 – Topsoil stockpile



Photo 5 – Area 1 pit



Photo 6 – Small excavation (red), topsoil pile (green)



Photo 7 – Gullies in area 1

### **GENERAL INSPECTION TOPICS**

The following list identifies the environmental and permit parameters inspected and gives a categorical evaluation of each

(AR) RECORDS <u>N</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 N
(SM) SIGNS AND MARKERS <u>PB</u>	(SP) STORM WATER MGT PLAN <u>N</u>	(RS) RECL PLAN/COMP <u>N</u>
(ES) OVERBURDEN/DEV. WASTE <u>N</u>	(SC) EROSION/SEDIMENTATION PB	(ST) STIPULATIONS <u>N</u>
(AT) ACID OR TOXIC MATERIALS <u>N</u>	(OD) OFF-SITE DAMAGE <u>N</u>	

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

Inspection Contact Address Chris Eisenhard 4406 Alaska LLC 5210 Getaway Drive Berthoud, CO 80513

Enclosure: 2022 cost estimate

# COST SUMMARY WORK

4406 Ala	ska, LLC Pit #1	Per	mit Action:	2022 SO3	Permit/Jol	b#: <u>M2010036</u>
ROJECT	IDENTIFICAT	<u>FION</u>				
Task #:	000	State:	Colorado		Abbreviation:	None
Date:	1/26/2022	County:	Phillips		Filename:	M036-000
User	BFB					

### TASK LIST (DIRECT COSTS)

Tool		Form	Fleet	Task	
Task	Description	Used	Size	Hours	Cost
001	Backfilling and Grading	DOZER	1	69.17	\$17,573
002	Replace Topsoil	DOZER	1	37.32	\$9,483
003	Revegetate (-2 acres for creek)	REVEGE	1	20.00	\$16,401
004	Mobilization/Demobilization	MOBILIZE	1	4.11	\$2,198
		<u>SUBTO</u>	TALS:	130.6	\$45,655

### **INDIRECT COSTS**

#### OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$922
Performance bond:	1.05	Total =	\$479
Job superintendent:	46.02	Total =	\$3,315
Profit:	10.00	Total =	\$4,566
		TOTAL O & P =	\$9,282
		CONTRACT AMOUNT (direct + O & P) = $($	\$54,937

#### LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): Engineering work and/or contract/bid preparation:	\$500	Total = Total =	\$500 \$0
Reclamation management and/or administration:	5.00	-	\$2,747
CONTINGENCY:	0.00	Total =	\$0
	TOTAL IN	DIRECT COST =	\$12,529
TOTAL BO	OND AMOUNT (di	irect + indirect) =	\$58,184

### BULLDOZER WORK

4406 Alaska	Permit Act	tion:	2022 SO3	Permit/Job#:	M2010036
PROJECT IDENTIFI	ICATION				
Teal: #: 001	Stata Cala	mada		Abbroviation	None
$\frac{1}{26/2022}$	State. Colo	line			M026 001
Date: $1/26/2022$	County: Phill	ips		Filename:	M036-001
User: BFB					
Agency or organ	nization name: DRMS				
HOURLY EQUIPME	<u>ENT COST</u>				
Basic Machine: Cat	D8T - 8SU				
Horsepower: 310					
Blade Type: Sen	ni-Universal				
Attachment: 3-sł	hank ripper				
Shift Basis: 1 pe	er dav				
Data Source: (CF	RG)				
<u> </u>	,				
Cost Breakdown:		1	<b></b>		
			Utilization %		
Ownership Cost/Hour:	\$97	7.46	NA		
Operating Cost/Hour:	\$97	7.63	100		
Ripper own. Cost/Hour:	\$15	5.19	NA		
Ripper op. Cost/Hour:	\$2	2.49	25		
Operator Cost/Hour:	\$41	1.30	NA		
Total Fleet Cost/Hour:	\$254.07 TTIFS				
MATERIAL QUANT	<u> </u>				
Initial Volume: 17,02					
Initial Volume: 17,02 Swell factor: 1.122	<b>SET US</b> <b>SET U</b>				
Initial Volume:       17,02         Swell factor:       1.122         Loose volume:       19,12	<b>TTIES</b> 20 4 <b>24</b> LCY				
Iotal Fleet Cost/Hour: <u>MATERIAL QUANT</u> Initial Volume: 17,02 Swell factor: 1.122 Loose volume: 19,12 Source of estimated volur	\$254.07         TTIES         20         4         24 LCY         ne:       Application (6")	Overb	burden on 21.1 acres)		
Initial Volume:       17,02         Swell factor:       1.122         Loose volume:       19,12         Source of estimated volur         Source of estimated swell	\$254.07         TTIES         20         4         24 LCY         ne:       Application (6", factor:         Cat Handbook	Overb	burden on 21.1 acres)		
Initial Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       17,0%         Swell factor:       1.12%         Loose volume:       19,1%         Source of estimated volur       Swell         Source of estimated swell       100%	\$254.07           TTIES           20           4           24 LCY           ne:         Application (6")           factor:         Cat Handbook	Overb	ourden on 21.1 acres)		
Initial Volume:       17,02         Initial Volume:       17,02         Swell factor:       1.122         Loose volume:       19,12         Source of estimated volur       Source of estimated swell         HOURLY PRODUCT	\$254.07         TTIES         20         4         24 LCY         ne:       Application (6" (6")         factor:       Cat Handbook         CION	Overb	ourden on 21.1 acres)		
Initial Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       17,02         Swell factor:       1.122         Loose volume:       19,12         Source of estimated volum       Source of estimated swell         HOURLY PRODUCT       Average push distance:	\$254.07         TTIES         20         4         24 LCY         ne:       Application (6", Cat Handbook         factor:       Cat Handbook         TION         150 fact	Overb	ourden on 21.1 acres)		
Initial Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       17,0%         Swell factor:       1.12%         Loose volume:       19,1%         Source of estimated volur       Source of estimated swell         HOURLY PRODUCT       Average push distance:	\$254.07         TTIES         20         4         24 LCY         ne:       Application (6", Cat Handbook         factor:       Cat Handbook         Construction       150 feet         tion:       634.3 LCY/br	Overb	ourden on 21.1 acres)		
Initial Volume:       17,02         Initial Volume:       17,02         Swell factor:       1.124         Loose volume:       19,12         Source of estimated volur         Source of estimated volur         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product	\$254.07         TTIES         20         4         24 LCY         ne:       Application (6"         factor:       Cat Handbook         Cat Handbook         Construction:       150 feet         ction:       634.3 LCY/hr	Overb	ourden on 21.1 acres)		
Initial Volume:       17,02         Initial Volume:       17,02         Swell factor:       1.122         Loose volume:       19,12         Source of estimated volur         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency destributed	\$254.07         TTIES         20         4         24 LCY         ne:       Application (6".         factor:       Cat Handbook         FION         extion:       150 feet         634.3 LCY/hr         cription:       Compacted fil	Overb Il or er	ourden on 21.1 acres)		
Initial Volume:       17,02         Initial Volume:       17,02         Swell factor:       1.122         Loose volume:       19,12         Source of estimated volur         Source of estimated volur         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency dest	\$254.07         TTIES         20         4         24 LCY         ne:       Application (6", Cat Handbook         factor:       Cat Handbook         FION         ction:       150 feet         ction:       634.3 LCY/hr         cription:       Compacted fil         -5 %	Overb ll or er	ourden on 21.1 acres)		
Initial Volume:       17,02         Initial Volume:       17,02         Swell factor:       1.122         Loose volume:       19,12         Source of estimated volur         Source of estimated volur         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency dest         Average push gradient:	\$254.07         TTIES         20         4         24 LCY         ne:       Application (6", factor:         factor:       Cat Handbook         FION         ction:       150 feet         ction:       634.3 LCY/hr         cription:       Compacted fil         -5 %       4.060 feet	Overb Il or er	ourden on 21.1 acres)		
Initial Volume:       17,07         Initial Volume:       17,07         Swell factor:       1.122         Loose volume:       19,12         Source of estimated volur         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency desense         Average push gradient:         Average site altitude:	\$254.07         TTIES         20         4         24 LCY         ne:       Application (6", factor:         factor:       Cat Handbook         FION         cription:       150 feet         cription:       634.3 LCY/hr         cription:       Compacted fil         -5 %       4,069 feet	Overb	ourden on 21.1 acres)		
Initial Volume:       17,07         Initial Volume:       17,07         Swell factor:       1,122         Loose volume:       19,12         Source of estimated volur         Source of estimated volur         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency dest         Average site altitude:         Material weight:	\$254.07         TTIES         20         4         24 LCY         ne:       Application (6", factor:         factor:       Cat Handbook         FION         cription:       150 feet         cription:       634.3 LCY/hr         cription:       Compacted fil         -5 %       4,069 feet         2,900 lbs/LCY       2,900 lbs/LCY	Overb Il or et	ourden on 21.1 acres)		
Initial Volume:       17,07         Initial Volume:       17,07         Swell factor:       1.124         Loose volume:       19,12         Source of estimated volur         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency dest         Average site altitude:         Material weight:         Weight description:	\$254.07         TTIES         20         4         24 LCY         ne:       Application (6", factor:         factor:       Cat Handbook         FION         cription:       634.3 LCY/hr         cription:       Compacted fil         -5 %       4,069 feet         2,900 lbs/LCY       Sand and gravel - Dry	Overb	ourden on 21.1 acres)		
Iotal Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       17,00         Swell factor:       1.12         Loose volume:       19,12         Source of estimated volur         Source of estimated volur         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency dest         Average push gradient:         Average site altitude:         Material weight:         Weight description:         Job Condition Correction	3254.07         TTIES         20         4         24 LCY         ne:       Application (6", factor:         factor:       Cat Handbook         Cat Handbook         Compacted fil         -5 %         4,069 feet         2,900 lbs/LCY         Sand and gravel - Dry         Factor	Overb	ourden on 21.1 acres) mbankment 0.9		
Initial Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       17,0:         Swell factor:       1.12         Loose volume:       19,1:         Source of estimated volur         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency destance:         Average push gradient:         Average site altitude:         Material weight:         Weight description:         Iob Condition Correction	S254.07         TTIES         20         4         24 LCY         ne:       Application (6", factor:         factor:       Cat Handbook         CION         cription:       150 feet         cription:       Compacted fil         -5 %       4,069 feet         2,900 lbs/LCY       Sand and gravel - Dry         Factor       Skill:       0.750	Overb	mbankment 0.9		
Initial Volume:       17,0''         Swell factor:       1,12'         Loose volume:       19,1'         Source of estimated volur         Source of estimated volur         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency dest         Average push gradient:         Average site altitude:         Material weight:         Weight description:         Iob Condition Correction         Operator S         Material consistent	\$254.07         TTIES         20         4         24 LCY         ne:       Application (6", factor:         factor:       Cat Handbook <b>CION</b> etion:       150 feet         ction:       634.3 LCY/hr         cription:       Compacted fil         -5 %       4,069 feet         2,900 lbs/LCY       Sand and gravel - Dry         Factor       Skill:       0.750         ency:       0.900	Overb	mbankment 0.9		
Initial Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       17,0'         Swell factor:       1.12'         Loose volume:       19,1'         Source of estimated volur         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency dest         Average push gradient:         Average site altitude:         Material weight:         Weight description:         Iob Condition Correction         Operator S         Material consiste         Dozing met	\$254.07         TTIES         20         4         24 LCY         ne:       Application (6")         factor:       Cat Handbook <b>CION</b> tion: $150$ feet         cription:       Compacted fil         -5 %         4,069 feet         2,900 lbs/LCY         Sand and gravel - Dry         Factor         Skill:       0.750         ency:       0.900         thod:       1.100	Overb			

Job efficiency	y: 0.830	(1 SHIFT/DAY)
Spoil pile	e: 0.800	(FND-RF)
Push gradien	t: 1.115	(CAT HB)
Altitude	e: 1.000	(CAT HB)
Material Weight	t: 0.793	(CAT HB)
Blade type	e: 1.000	(PAT)
Net correction	n: 0.4359	
Adjusted unit production:	276.49 LCY/hr	
Adjusted fleet production:	276.49 LCY/hr	

# JOB TIME AND COST

Fleet size:	1 Dozer(s)
Unit cost:	\$0.919/LCY
Total job time:	<b>69.17</b> Hours
Total job cost:	\$17,573

### BULLDOZER WORK

rusk desemption.	кер					
4406 Alaska		Peri	mit Action:	2022 SO3	Permit/Job#:	M2010036
PROJECT IDE	NTIFICAT	ION				
Task #• 002		State:	Colorado		Abbreviation.	None
Date: $1/26/$	2022	County:	Phillins		Filename:	M036-002
User: BFB	2022	county.	1 11111115		<u> </u>	11030 002
Agency	r organization	name' DR	RMS			
HOURLY EQU	<u>IPMENT C</u>	<u>OST</u>				
Basic Machine:	Cat D8T -	8SU				
Horsepower:	310					
Blade Type:	Semi-Univ	versal				
Attachment:	3-shank rij	pper				
Shift Basis:	1 per day					
Data Source:	(CRG)					
Cost Breakdown:						
				Utilization %		
Ownership Cost/I	Hour:		\$97.46	NA		
Operating Cost/I	Hour:		\$97.63	100		
Ripper own. Cost/I	Hour:		\$15.19	NA		
Ripper op. Cost/I	Hour:		\$2.49	25		
Operator Cost/I	Lann		\$41.20	NT A		
Total unit Cost/Ho Total Fleet Cost/Ho	10ur: \$254 our: <b>\$254</b>	.07 .07	541.30	NA		
Total unit Cost/Ho Total Fleet Cost/Ho MATERIAL QU Initial Volume:	ur: <u>\$254</u> our: <b>\$254</b> J <b>ANTITIES</b> 14,600	.07 .07	\$41.30	NA		
Total unit Cost/Ho Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor:	ur: <u>\$254</u> our: <b>\$254</b> J <b>ANTITIES</b> 14,600 1.215	.07 .07		NA		
Total unit Cost/Ho Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor: Loose volume:	ur:       \$254         ur:       \$254         JANTITIES         14,600         1.215         17,739 LCY	.07 .07 <u>5</u>		NA		
Total unit Cost/Ho Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated	ur:       \$254         ur:       \$254         JANTITIES         14,600         1.215         17,739 LCY         l volume:         swell factor	.07 .07 5 7 7 <u>Applicatio</u> Cat Hand	 	.1 acres) -2 acres for cr	reekbed	
Total unit Cost/Ho Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated	ur:       \$254         our:       \$254         JANTITIES         14,600         1.215         17,739 LCS         l volume:         swell factor         DUCTION	.07 .07 2 2 4 4 5 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	  on (6" on 18 book	.1 acres) -2 acres for cr	reekbed	
Total unit Cost/Ho Total Fleet Cost/Ho Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PRO	ur:       \$254         our:       \$254         JANTITIES         14,600         1.215         17,739 LCY         i volume:         i swell factor         DUCTION         nce:	.07 .07 2 2 2 200 feet	  on (6" on 18 book	.1 acres) -2 acres for cr	reekbed	
Total unit Cost/Ho Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PRO Average push dista Unadjusted hourly	ur:       \$254         ur:       \$254         JANTITIES         14,600         1.215         17,739 LCY         d volume:         d swell factor         DUCTION         nce:         production:	.07 .07 2 2 2 2 3 4 4 200 feet 491.9 LCY/	 on (6" on 18 book	.1 acres) -2 acres for cr	reekbed	
Total unit Cost/Ho Total Fleet Cost/Ho Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PRO Average push dista Unadjusted hourly Materials consister	ar:       \$254         pur:       \$254         pur:       \$254         JANTITIES       14,600         1.215       17,739 LCY         1 volume:       1 swell factor         DUCTION       nce:         production:       acy descriptio	.07 .07 2 2 2 200 feet 491.9 LCY/ n: Partly c	541.30  on (6" on 18 book /hr consolidated		reekbed	
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Total unit Cost/Ho Total Fleet Cost/Ho Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PRO Average push dista Unadjusted hourly Materials consister Average push grad Average site altitud Material weight: Weight description	ar: $$254$ pur: $$254$ pur: $$254$ JANTITIES         14,600         1.215         17,739 LCS         d volume:         d swell factor         DUCTION         nce:         production:         acy description         dent: $-5 \%$ le: $4,069$ :       Top	.07 .07 .07 .07 			reekbed	
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Task # 002

Job efficienc	y: 0.830	(1 SHIFT/DAY)
Spoil pil	e: 0.800	(FND-RF)
Push gradier	it: 1.115	(CAT HB)
Altitud	e: 1.000	(CAT HB)
Material Weigh	it: 1.438	(CAT HB)
Blade typ	e: 1.000	(PAT)
Net correctio	n: 0.9662	
Adjusted unit production:	475.27 LCY/hr	
Adjusted fleet production:	475.27 LCY/hr	

# JOB TIME AND COST

Fleet size:	1 Dozer(s)	
Unit cost:	\$0.535/LCY	
Total job time:	<b>37.32</b> Hours	
Total job cost:	\$9,483	

# **REVEGETATION WORK**

Task description: <b>Re</b>		Revegetate (-2 a	evegetate (-2 acres for creek)					
Site:	4406 Ala	ska	Pe	Permit Action: 2022 SO3		Permit/Job#: M2010036		
<u>P</u> ]	ROJECT Task #:	IDENTIFIC	CATION State:	Colorado		Abbreviation:	None	
	Date: User:	1/26/2022 BFB	County:	Phillips		Filename:	M036-003	
	Age	ency or organiz	zation name:	RMS				

# **FERTILIZING**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Ammonium nitrate, 33-0-0	121.20	pound	\$0.36	\$43.63
Triple superphosphate, 0-46-0	86.90	pound	\$0.46	\$39.97
			Total Fertilizer Materials Cost/Acre	\$83.61

### Application

Description		Cost /Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)		\$38.77
	<b>Total Fertilizer Application Cost/Acre</b>	\$38.77

# **TILLING**

Description	Cost /Acre
Weed control spraying (MEANS 31 31 16.13 3100)	\$290.40
Total Tilling Cost/Acre	\$290.40

### **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Big Bluestem - Kaw	2.20	6.57	\$29.37
Indiangrass - Cheyenne	1.00	3.05	\$11.30
Switchgrass - Nebraska 28	2.00	17.86	\$27.00
Alfalfa - Ladak (inoculated)	0.80	3.86	\$2.04
Western Wheatgrass - Arriba	1.60	4.04	\$10.40
Totals Seed Mix	7.60	35.37	\$80.11

Application

Description	Со	st /Acre
Drill Seeding (DRMS Survey Cost)	\$23	32.00
Total Seed	Application Cost/Acre \$23	32.00

### **MULCHING and MISCELLANEOUS**

#### Materials

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

Application

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

### NURSERY STOCK PLANTING

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

### JOB TIME AND COST

	No. of Acres:	18.1	Cost /Acre:	\$724.89
Estimate	ed Failure Rate:	25%	Cost /Acre*:	\$724.89
*Selected Replanti	ng Work Items:	FERTILIZING, TII	LLING,SEEDING	
Initial Job Cost:	\$13,120.51			
Reseeding Job Cost:	\$3,280.13			
Total Job Cost:	\$16,401			
Job Hours:	20.00			

# EQUIPMENT MOBILIZATION/DEMOBILIZATION

Т	ask descrip	otion:	Mob	oilization/Demob	ilization						
Site:	4406 Alas	ska		Permit	Action:	2022 SC	)3		Permit/Job	#: <u>M</u>	2010036
PF	<u>ROJECT</u>	IDENTIF	ICATIO	<u>ON</u>							
	Task #:	004		State: Co	olorado			Abbre	eviation:	None	
	Date: User:	1/26/2022 BFB		County: Ph	illips			Fi	ilename:	M036	5-004
	Age	ency or orga	nization	name: DRMS							
<u>E(</u>	QUIPME	NT TRAN	SPORT	T RIG COST							
							(	Shift ba Cost Data Sou	rce: 1	per da RG Da	ta
	,	Truck Tracto	or Descri	iption: GENE	RIC ON-H	IIGHW A	AY TRU 400 HP	JCK TRACTO (2ND HALF,	DR, 6X4, E 2006)	DIESEI	L POWERED,
		Truck Trail	er Descri	iption: G	ENERIC F	FOLDIN TR.	G GOO AILER	SENECK, DF (25T, 50T, AN	ROP DECH ND 100T)	K EQU	IPMENT
<u>Co</u>	st Breakdo	wn:									
A	Available F	Rig Capacit	ies	0-25 Tons	26-50 T	ons	51+	- Tons			
	Owne	ership Cost/l	Hour:	\$21.28	\$37.9	94	\$4	7.67			
	Oper	ating Cost/l	Hour:	\$26.55	\$50.4	18	\$5	6.21			
	Ope	erator Cost/l	Hour:	\$20.54	\$20.5	54	\$20.54				
	H	lelper Cost/l	Hour:	\$0.00	\$23.5	53	\$2	23.53			
	Tota	Unit Cost/	Hour:	\$68.37	\$132.	49	\$1	47.95			
<u>N(</u>	NON ROADABLE EQUIPMENT:										
Ν	Machine	We	eight/	Owner ship	Haul Rig	g F	Fleet	Haul Trip	Return 7	Trip	DOT Permit
Ι	Description	Un (TC	it DNS)	Cost/hr/ unit	Cost/hr/ t	uni S	Size	Cost/hr/ fleet	Cost/hr/	fleet	Cost/ fleet
0	Cat D8T - 8S	U 53.	08	\$112.65	\$147.95	1		\$260.60	\$147.95		\$250.00
E S T	Drill/Broadca Seeder with Fractor	ast 25.	00	\$7.98	\$68.37	1		\$76.35	\$68.37		\$250.00

Subtotals: \$336.95 \$216.32 \$500.00

# **ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/	Total Cost/hr/ Fleet Size		Return Trip
	unit	unit		Cost/hr/ fleet
		Subtotals:	\$0.00	\$0.00

# **EQUIPMENT HAUL DISTANCE and Time**

YUMA	
35.00	miles
45.00	mph
\$2,197.59	
\$0.00	
-	YUMA 35.00 45.00 \$2,197.59 \$0.00

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.78	0.78
Return Time (Hours):	0.78	0.78
Loading Time (Hours):	0.25	NA
Unloading Time (Hours):	0.25	NA
Subtotals:	2.06	1.56

# JOB TIME AND COST

Total job time: 4.11 Hours

Total job cost: \$2,198