

Department of Natural Resources

1313 Sherman Street, Room 215 Denver, CO 80203

June 27, 2018

Katie Conrado Meeker Sand & Gravel, Inc. P.O. Box 1550 Meeker, CO 81641

Re: Meeker Pit, Acreage and Surety Reduction Approval, Permit No. M-1976-038, Revision No. AR-1 and SR-1

Dear Ms. Conrado:

On June 27, 2018, the Colorado Division of Reclamation, Mining and Safety approved your request for release of a portion of the permit area from further reclamation responsibility.

The permit area was reduced to 61.69 acres, through the release of 17.11 acres in this permit action. Because the permit is not totally released, you are still liable for filing annual reports and fees.

Due to a reduction in reclamation liability the required reclamation bond has been reduced to \$113,352.46 from the currently held \$150,316.90. A rider to the existing bond is required to reduce the amount currently held by the Division. If you have any questions regarding placement of the revised bond amount please contact Barbara Coria at (303) 866-3567 extension 8148.

If you need additional information, please contact me at the Division of Reclamation, Mining and Safety, Grand Junction Field Office, 101 S. 3rd St., Suite 301, Grand Junction, Colorado 81501, telephone no. 970.241.2042.

Sincerely,

Travis Marshall

Environmental Protection Specialist

Enclosure(s): Updated Reclamation Cost Estimate

cc: Barbara Coria, DRMS



COST SUMMARY WORK

Task description:

Final Reclamation Cost Estimate

Site: Meeker Pit

Permit Action: AR-1

Permit/Job#: M1976038

PROJECT IDENTIFICATION

Task #:

001

State:

Colorado

Abbreviation:

None

Date: User:

6/26/2018 THM

County: Rio Blanco

Filename:

M038-001

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Re-grade Highwall to 3H:1V Slopes	DOZER	2	19.74	\$7,573.00
02a	Distribute topsoil over 50 acres maximum disturbance	SCRAPER1	2	11.66	\$32,163.00
03a	Revegetate a maximum disturbance of 50 acres	REVEGE	1	16.00	\$41,296.00
04a	Mobilization	MOBILIZE	1	2.53	\$10,107.00
	\$91,139				

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: Performance bond:

Job superintendent:

2.02

1.05

24.97

10.00

Total = Total =

\$1,841.01 \$956.96

Total = \$1,823.69

Total = \$9,113.90

TOTAL O & P = \$13,735.56

CONTRACT AMOUNT (direct + O & P) = \$104,874.56

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Profit:

Financial warranty processing (legal/related costs):

500.00 0.00

500.00 Total =

Total =

Engineering work and/or contract/bid preparation: Reclamation management and/or administration:

5.00

\$0.00 \$5,243.73

CONTINGENCY:

3.00

Total = \$2,734.17

TOTAL INDIRECT COST = \$22,213.46

TOTAL BOND AMOUNT (direct + indirect) = \$113,352.46

BULLDOZER WORK

200				
: Meeker Pit	Permit Action:	AR-1	Permit/Job#:	M1976038
PROJECT IDENTIF	FICATION			
Task #: 01A	State: Colorado		Abbreviation:	None
Date: 6/26/2018	County: Rio Blanco		Filename:	01a
User: THM				
Agency or orga	anization name: DRMS			
HOURLY EQUIPM	ENT COST		1900	
	at D8T - 8SU			
Horsepower: 31		_		
	emi-Universal	_		
Attachment: NA		_		
Shift Basis: 1	per day			
Data Source: (C	RG)	_		
Cost Breakdown:				
Cost Divardowii.		Utilization %		
Ownership Cost/Hour:	\$83.81	NA		
Operating Cost/Hour:		100		
Ripper own. Cost/Hour:		NA		
Ripper op. Cost/Hour:	\$0.00	0		
Operator Cost/Hour:	\$41.85	NA		
T . 1 . 2 . 0 / 11	#101.00			
Total unit Cost/Hour: Total Fleet Cost/Hour:	\$191.83			
Total Fleet Cost/Hour.	\$383.65			
MATERIAL OHAN	PITIES			
MATERIAL QUAN	TITIES .			
MATERIAL QUANT				
Initial Volume: 20, Swell factor: 1.12	000			
Initial Volume: 20, Swell factor: 1.12	000		×	
Initial Volume: 20, Swell factor: 1.12 Loose volume: 22,	000 20 400 LCY	on. Mining & Safety	×	
Initial Volume: 20, Swell factor: 1.12	000 20 400 LCY ume: Division of Reclamation	on, Mining & Safety	*	
Initial Volume: 20, Swell factor: 1.12 Loose volume: 22, Source of estimated volumes Source of estimated swell.	000 20 400 LCY Ime: Division of Reclamatic Cat Handbook	on, Mining & Safety	ж	
Initial Volume: 20, Swell factor: 1.12 Loose volume: 22, Source of estimated volume	000 20 400 LCY Ime: Division of Reclamatic Cat Handbook	on, Mining & Safety	*	
Initial Volume: 20, Swell factor: 1.12 Loose volume: 22, Source of estimated volumes Source of estimated swell.	000 20 400 LCY Ime: Division of Reclamatic Cat Handbook	on, Mining & Safety	ec.	
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Initial Volume: 20,4 Swell factor: 1.12 Loose volume: 22,4 Source of estimated volu Source of estimated swe HOURLY PRODUC Average push distance:	000 20 400 LCY Ime: Division of Reclamatic Cat Handbook CTION 80 feet 984.2 LCY/hr		*	
Initial Volume: 20,4 Swell factor: 1.12 Loose volume: 22,4 Source of estimated volumes of estimated swell source of estimated swell to the source of estimated swell	000 20 400 LCY Ime: Division of Reclamatic Cat Handbook CTION 80 feet 984.2 LCY/hr		*	
Initial Volume: 20, Swell factor: 1.12 Loose volume: 22, Source of estimated volumes of estimated swell source of estimated swell hours produced a verage push distance: Unadjusted hourly produced average push gradient:	000 20 400 LCY Ime: Division of Reclamatic Cat Handbook Cat Handbook STION 80 feet 984.2 LCY/hr escription: Compacted fill or en -20 %			
Initial Volume: 20,4 Swell factor: 1.12 Loose volume: 22,4 Source of estimated volumes of estimated swell source of estimated swell such such such such such such such such	000 20 400 LCY Ime: Division of Reclamatic Cat Handbook TION 80 feet 984.2 LCY/hr escription: Compacted fill or en -20 % 6,565 feet			
Initial Volume: 20,6 Swell factor: 1.12 Loose volume: 22,6 Source of estimated volumes of estimated swell source of estimated swell stance: Materials consistency definition of estimated swell stance: Weight description:	000 20 400 LCY Ime: Division of Reclamatic Cat Handbook Cat Handbook CTION 80 feet 984.2 LCY/hr escription: Compacted fill or en -20 % 6,565 feet 2,550 lbs/LCY Gravel - Dry	nbankment 0.9		
Initial Volume: 20,4 Swell factor: 1.12 Loose volume: 22,4 Source of estimated volumes of estimated swell source of estimated swell such such such such such such such such	000 20 400 LCY Ime: Division of Reclamatic Cat Handbook CTION 80 feet 984.2 LCY/hr escription: Compacted fill or en -20 % 6,565 feet 2,550 lbs/LCY Gravel - Dry n Factor	nbankment 0.9		
Initial Volume: 20,4 Swell factor: 1.12 Loose volume: 22,4 Source of estimated volumes of estimated swell factor of estimated swell for the source of estimated swell for the so	Division of Reclamation	nbankment 0.9 Source (AVG.)		
Initial Volume: 20,4 Swell factor: 1.12 Loose volume: 22,4 Source of estimated volumes of estimated swell source of estimated swell such such such such such such such such	Division of Reclamation	nbankment 0.9		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.426	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.5765

Adjusted unit production: 567.39 LCY/hr

Adjusted fleet production: 1134.78 LCY/hr

JOB TIME AND COST

Fleet size: 2 Dozer(s)
Unit cost: \$0.338/LCY

Total job time: 19.74 Hours

Total job cost: \$7,573

SCRAPER TEAM WORK

Task description: Distribute to	psoil over 50 acres maximum disturba	nce
Site: Meeker Pit	Permit Action: AR-1	Permit/Job#: M1976038
PROJECT IDENTIFICATION		
Task #: $02A$ Standard County User: THM	ate: Colorado aty: Rio Blanco	Abbreviation: None Filename: 02a
Agency or organization name:	DRMS	
HOURLY EQUIPMENT	COSTShift bas	s: 1 per day
	Equipment Description	
-Sc	raper: Cat 627G w/push-pull	
- <u>-</u> -	ozer: Cat D8T - 8SU	
Support Equipment -Load	Area: Cat D8T - 8SU	
-Dump	Area: Cat D8T - 8SU	
Road Maintenance - Motor G	rader: CAT 120M	
-Water T	ruck: Water Tanker, 7,000 Gal.	

Cost Breakdown:	Scraper Wor	k Team	Support Equip	ment	Maintenance 1	Equipment
	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	100	100	100	100	100
Ownership cost/hour:	\$99.75	\$83.81	\$83.81	\$83.81	\$32.40	\$38.58
Operating cost/hour:	\$118.23	\$66.17	\$66.17	\$66.17	\$28.16	\$61.11
%Utilization-ripper:	NA	NA	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Ripper op. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Operator cost/hour:	\$31.26	\$41.85	\$41.85	\$41.85	\$28.90	\$0.00
Unit Subtotals:	\$249.24	\$191.83	\$191.83	\$191.83	\$89.46	\$99.69
Number of Units:	8	1	1	1	1	1
Group Subtotals:	Work:	\$2,185.75	Support:	\$383.66	Maint:	\$189.15

Total work team cost/hour: \$2,758.56

MATERIAL QUANTITIES

Initial volume: 30,403 CCY Swell factor: 1.125
Loose volume: 34,203 LCY

Source of estimated volume: Division of Reclamation, Mining & Safety

Source of estimated swell factor: Cat Handbook

HOURLY PRODUCTION

Scraper Bowl (volume) Basis:

Material weight:2,550 lbs/LCYStruck Volume:15.70LCYMaterial description:Earth - Dry packedHeaped Volume:22.00LCYRated Payload:52,800 poundsAverage Volume:18.85LCYPayload Capacity:20.71 LCYAdjusted Capacity:18.85LCY

Cycle Time:

Scraper Loading Time: Maneuver and Spread Time: 0.90 Minutes 0.60 Minutes

Job Condition Correction:

Site Altitude: 6565 feet

	Scraper	Push Dozer	Source
Altitude Adj:	1.000	1.000	(CAT HB)
Job Efficiency:	0.830	0.830	(CAT HB)
Net Correction:	0.830	0.830	

Travel Time:

Road Condition: Firm, smooth, rolling, dirt/lt. surfaced, watered, maintained 3.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res	Velocity (fpm)	Travel Time (min)
1	1000.00	2.00	3.00	5.00	2218	0.62

Haul Time: 0.62 minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1000.00	-2.00	3.00	1.00	2913	0.44

Return Time: 0.44 minutes Total Scraper team cycle time: 2.56 minutes Adjusted for job conditions: 733.38 LCY/Hour Selected Number of Scrapers: 4 Scraper(s) Adjusted single scraper team (unit) hourly production: 1,466.77 LCY/Hour Adjusted multiple scraper team (fleet) hourly production: 2,933.53 LCY/Hour

Unadjusted unit production/hour: 883.59 LCY/Hour Optimal Number of Scrapers per push dozer:

JOB TIME AND COST

Fleet size:	2 Team(s)		Total job time: _	11.66	_ Hours
Unit cost:	\$0.940	/LCY	Total job cost:	\$32,163	

REVEGETATION WORK

e:	ask description: Ro	Perm	it Action: AR-	1	Pe	ermit/Job#	: M1976038
PR	ROJECT IDENTIFICAT	TION					
	Task #: 03A Date: 6/26/2018 User: THM	State:	Colorado Rio Blanco		Abbrev File	viation: _ ename: _	None 03a
	Agency or organization	on name:DRM	IS	179-			
Œ	<u>CRTILIZING</u>						
	nterials						
	Description		Units / Acre	Unit	Cost / U	J nit	Cost /Acre
					\$		\$
					N	Tertilizer Taterials ost/Acre	\$0.00
Г	plication Description	4.47	20				Cost /Acre
Γ							Cost /Acre
Г			Total	Fertilizer A	pplication C	ost/Acre	
			Total	Fertilizer A	pplication C	ost/Acre	\$
	Description LLING Description			Fertilizer A	pplication C	ost/Acre	\$ \$0.00 Cost /Acre
	Description LLING	IEANS 32 91 13.2		Fertilizer A	pplication C	ost/Acre	\$ \$0.00
	Description LLING Description	IEANS 32 91 13.2			pplication Co		\$ \$0.00 Cost /Acre
	Description LLING Description	IEANS 32 91 13.2					\$ \$0.00 Cost /Acre \$106.29
	Description LLING Description Disc harrowing, 6" deep (M	IEANS 32 91 13.2		Тс	Rate – PLS SLBS / P		\$ \$0.00 Cost /Acre \$106.29
	Description LLING Description Disc harrowing, 6" deep (M	IEANS 32 91 13.2		To	Rate – PLS SLBS / F	ost/Acre	\$0.00 Cost /Acre \$106.29
	Description Description Disc harrowing, 6" deep (M EDING Seed Mix Meadow Brome - Regar Russian Wildrye - Bozoisky	/		To	Rate – PLS SPLBS / PF	ost/Acre Seeds Ser SQ.	\$0.00 Cost /Acre \$106.29 \$106.29
	Description LLING Description Disc harrowing, 6" deep (M EDING Seed Mix Meadow Brome - Regar	/ odar		To	Rate – PLS S LBS / P Acre 1.30 1 2.00 8 2.20 7	ost/Acre Geeds eer SQ. T	\$0.00 Cost /Acre \$106.29 \$106.29 Cost /Acre

Totals Seed Mix

Application

\$71.15

32.26

10.90

Description		Cost /Acre
-110		\$0.00
	Total Seed Application Cost/Acre	\$0.00

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered {MEANS 31 25 14.16 1200}	1.50	TON	\$261.00	\$391.50
Total Mulch Materials Cost/Acre				\$391.50

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$66.02
Power mulcher (MEANS 32 91 13.16 0350)		\$99.32
Weed spray, truck, non-aquatic area, nox. [DMG]		\$71.50
	Total Mulch Application Cost/Acre	\$236.84

NURSERY STOCK PLANTING

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

JOB TIME AND COST

No. of Acres: 41 Cost /Acre: \$805.78

Estimated Failure Rate: 25% Cost /Acre*: \$805.78

*Selected Replanting Work Items: TILLING, SEEDING, MULCHING

Initial Job Cost: **\$33,036.98**

Reseeding Job Cost: \$8,259.25

Total Job Cost: \$41,296

Job Hours: 16.00

EQUIPMENT MOBILIZATION/DEMOBILIZATION

,	Task description:	Mobilization			
Site:	Meeker Pit	Permit Action:	AR-1	Permit/Job#:	M1976038

PROJECT IDENTIFICATION

Task #:04AState:ColoradoAbbreviation:NoneDate:6/26/2018County:Rio BlancoFilename:04a

User: THM

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	3	\$604.08	\$352.65	\$750.00
Cat 627G w/push- pull	43.48	\$99.75	\$117.55	4	\$869.20	\$470.20	\$1,000.00
CAT 120M	15.53	\$32.40	\$88.67	1	\$121.07	\$88.67	\$250.00
Water Tanker, 3,500 Gal.	6.25	\$11.45	\$88.67	1	\$100.12	\$88.67	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$12.22	\$88.67	1	\$100.89	\$88.67	\$250.00
Power Mulcher (Bowie LD-90)	6.00	\$7.03	\$88.67	1	\$95.70	\$88.67	\$250.00

Subtotals: \$1,891.06 \$1,177.53 \$2,750.00

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	2	\$24.52	\$24.52

5uviviais. 524.52 524.52	Subtotals:	\$24.52	\$24.52
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EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region: MEEKER

Total one-way travel distance: 4.00 miles

Average Travel Speed: 30.00 mph

Total Non-Roadable Mob/Demob Cost *
 '* two round trips with haul rig:
Total Roadable Mob/Demob Cost **
 ** one round trip, no haul rig:

\$6.54

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.13	0.13
Return Time (Hours):	0.13	0.13
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.27	0.27

JOB TIME AND COST

Total job time:	2.53	Hours
Total job cost:	\$10,107	