

**COLORADO** Division of Reclamation, Mining and Safety Department of Natural Resources

October 1, 2024

Harry Corkle Henry Corkle Construction 34612 Colorado State Highway 14 Walden, CO 80480

### Re: Henry Corkle Construction, Arapaho Pit, File No. M-2024-043, 112c Permit Application Adequacy Review

Mr. Corkle,

The Division of Reclamation, Mining and Safety (Division) is in the process of reviewing the above referenced application to ensure it adequately satisfies the requirements of the Colorado Land Reclamation Act for the Extraction of Construction Materials (Act) and the associated Mineral Rules and Regulations of the Colorado Mined Land Reclamation Board for the Extraction of Construction Materials (Rules). During review of the material submitted, the Division determined that the following issue(s) of concern shall be adequately addressed before the application can be considered for approval.

### **Application Form**

- 1. <u>On page six of the application</u>, item 10 refers to operations where a joint venture or partnership is planned to occur between the operator and another entity. If this is not planned for this operation please provide a corrected document without item 10 initialed.
- 2. <u>On page two of the application</u>, please correct the typo present under the "general description" section of item 9.

### 6.2 General Requirements of Exhibits

3. Please include the Applicant's name on all maps pursuant to Rule 6.2.1(2)(a)



### 6.4.3 Exhibit C - Pre-Mining and Mining Plan Maps of Affected Land

4. A ditch, titled "Arapaho Ditch" by the operator, is labelled within the northern portion of the affected area. Please update the structure agreement between the operator and Arapaho Ranch, LLC to include this structure.

### 6.4.4 Exhibit D - Mining Plan

- On page 12 of the application, the applicant states that the operator plans to store "specialty materials" on-site. Please provide a more detailed description of what type of materials are proposed, and include labelled locations of the proposed stockpiles in Exhibit C.
- 6. <u>On page 12 of the application</u>, the applicant states that portable processing equipment will be utilized. Please state if footers are planned to be constructed to support these structures or if they are planned to be placed as-is. Per conversations during the pre-operation inspection it is our understanding that footings are not planned, but please provide a statement regarding this in the application as well.
- 7. <u>On page 13 of the application</u>, the applicant states that phases A-1 and B-1 are planned to be completed first. Per rule 6.4.4(e), please clarify if phase A-1 is planned to be completed in its entirety before mining in phase B-1 will begin, or if they are planned to be mined simultaneously. This will affect the Division's initial bond calculation.

### 6.4.5 Exhibit E - Reclamation Plan

- 8. <u>On page 19 of the application</u>, the applicant states that the reclamation plan is in support of the incorrect mine, the Lindsay Pit. Please update this heading to reference the Arapaho Pit.
- 9. <u>On page 19 of the application</u>, the applicant references "Table 1, above," referring to the table included in Exhibit C of the application. Please reference an exact page number of the table to improve the clarity of the application.
- 10. Table 1, referenced in the previous comment, includes estimated timeframes for each phase of the operation. Per Rule 6.4.5(2)(e), please state if these timeframes include reclamation. If they do not include reclamation, please include estimated timeframes for reclamation in each phase.
- 11. As mentioned in item 6 of this letter, please clarify if phases A-1 and B-1 are intended to be performed simultaneously.
- 12. On page 29 of the application, under the section labelled item 3, the operator refers to their seed mix. This section appears to be referring to the incorrect section of the Mineral Rules and Regulations. Rule 3.1.10(3), the section referenced in this item, states that the operator will ensure "the land shall be restored to slopes commensurate with the proposed land use and shall not be too steep to be traversed by livestock." Please address this requirement in this section.



#### 6.4.5 Exhibit H – Wildlife Information

13. Please see the attached timely comments provided by CPW. Per Rule 6.4.8(2), please provide the Division information regarding how the operator will consider the provided comments.

#### 6.4.12 Exhibit L - Reclamation Costs

14. Per rule 3.1.9(6), please verify there is an adequate volume of topsoil or plant growth material present within the planned Phase A-1 area to sufficiently reclaim that section assuming complete abandonment without interaction with the following Phase B-1. This will affect the Division's initial bond calculation for phase A-1. If it is deemed to be inadequate an updated estimate will be provided.

#### 6.4.18 Exhibit S – Structure Agreements

- 15. Per Rule 6.4.19, please provide either:
  - a. A notarized structure agreement pertaining to each structure located within 200 feet of the permit boundary. In this case the document provided only mentioned the existing fences, but failed to mention the existing ranch road and ditch and was not notarized.
  - b. An engineering evaluation stating each structure shall not be damaged by activities occurring as part of the mining operation.

Please provide the division with a document addressing either requirement of the rule with each nearby structure included.

Please be advised the McClave Ranch Pit application may be deemed inadequate, and the application may be denied on **November 12, 2024**, unless the above-mentioned adequacy review items are addressed to the satisfaction of the Division. If more time is needed to complete the reply, the Division can grant an extension to the decision date. This will be done upon receipt of a written waiver of the Applicant's right to a decision by **November 12, 2024** and request for additional time. This must be received no later than the decision date.

If you have any questions, please contact me at <u>ben.hammar@state.co.us</u> or (720) 793-2988.

Sincerely,

Benjamin Hammar Environmental Protection Specialist

Ec: Zachary Trujillo, Division of Reclamation, Mining & Safety





## COST SUMMARY WORK

Т	ask description:	New Permit CO				
Site:	Arapaho Pit	Permit Action	n: Phase A-1 Reclamation		Permit/Job	#: <u>M2024043</u>
PR	ROJECT IDENTIFI	<u>CATION</u>				
	Task #:       000         Date:       8/22/2024         User:       BEH	State:         Colorado           County:         Jackson	)		Abbreviation: Filename:	None M043-000
	Agency or organ	ization name: DRMS				
TA	ASK LIST (DIRECT	<u>COSTS)</u>				
ask			Form	Fleet	Task	~
	Description		Used	Size	Hours	Cost
)1	3:1 Levelling		DOZER	1	1.12	\$360
)2	Topsoil Replacemen		DOZER	1	49.20	\$15,822
)4	Topsoil Replacemen	t	LOADER	1	172.30	\$15,122
)5	Reseeding		REVEGE	1	36.00	\$32,123
)6	Equipment Mobiliza	tion	MOBILIZE	1	6.60	\$4,241
			<u>SUBTC</u>	DTALS:	265.22	\$67,668
	DIRECT COSTS	IT:				
	Liability insura				Total = \$1	,367
	Performance b				$Total = \frac{\$1}{\$7}$ $Total = \frac{\$7}{\$7}$	
	Performance b	ona: 1.05			1  otal = \$/	11

bility insurance:	2.02	Total =	\$1,367
rformance bond:	1.05	Total =	\$711
superintendent:	134.44	Total =	\$10,657
Profit:	10.00	Total =	\$6,767
		TOTAL O & P =	\$19,501
		CONTRACT AMOUNT (direct + O & P) = $($	\$87,169

#### LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Job

Financial warranty processing (legal/related costs): Engineering work and/or contract/bid preparation: Reclamation management and/or administration:	\$500 4.25 5.00	_ Total = _ Total =	\$500 \$3,705 \$4,358
CONTINGENCY:	0.00	Total =	\$0
	TOTAL IN	NDIRECT COST =	\$28,064
TOTAL BO	ND AMOUNT (d	lirect + indirect) =	\$95,732

# BULLDOZER WORK

	ask description:	<u>3:1 Le</u>	velling				
:	Arapaho Pit		Per	mit Action:	Phase A-1 Reclamation	Permit/Job#:	M2024043
P	ROJECT IDEN	TIFICATIO	N				
-	Task #: 001		State:	Colorado		Abbreviation:	None
	Date: $\frac{8}{19/2}$	024	County:	Jackson		Filename:	M043-001
	User: BEH		e o unity i				
	Agency or	organization n	ame: DI	RMS			
H	OURLY EQUI	PMENT CO	<u>ST</u>				
	Basic Machine:	Cat D8T - 85	SU				
	Horsepower:	310					
	Blade Type:	Semi-Univer	sal				
	Attachment:	NA					
	Shift Basis:	1 per day					
	Data Source:	(CRG)					
C	ost Breakdown:						
	_				Utilization %		
	Ownership Cost/Ho			\$173.32	NA		
	Operating Cost/Ho			\$109.71	100		
	ipper own. Cost/Ho			\$0.00	NA		
	Ripper op. Cost/Ho			\$0.00	0		
	Operator Cost/Ho	our:		\$38.59	NA		
10	otal Fleet Cost/Hou	ır: <b>\$321.6</b> 2					
Μ	IATERIAL QUA	ANTITIES					
		<b>ANTITIES</b> 1,000					
	Initial Volume: Swell factor:	1,000 1.230					
	Initial Volume: Swell factor:	1,000					
	Initial Volume: Swell factor:	1,000 1.230 <b>1,230</b> LCY	Division	  of Reclamati	on, Mining & Safety		
So	Initial Volume: Swell factor: Loose volume:	1,000 1.230 <b>1,230</b> LCY volume:	Division Cat Hand		on, Mining & Safety		
So So	Initial Volume:	1,000 1.230 <b>1,230</b> LCY volume: swell factor:			on, Mining & Safety		
So So	Initial Volume: Swell factor: Loose volume: ource of estimated	1,000 1.230 <b>1,230</b> LCY volume: swell factor:			on, Mining & Safety		
So So <u>H</u>	Initial Volume:	1,000 1.230 <b>1,230</b> LCY volume: swell factor: UCTION			on, Mining & Safety		
So So <u>H</u>	Initial Volume:	1,000 1.230 <b>1,230</b> LCY volume: swell factor: <u>UCTION</u> ce:	Cat Hand	lbook	on, Mining & Safety		
So So <u>H</u> U	Initial Volume:	1,000 1.230 <b>1,230</b> LCY volume: swell factor: UCTION ce: roduction:	Cat Hand 50 feet 1,400.0 LC	lbook Y/hr	on, Mining & Safety   mbankment 0.9		
So So <u>H</u> U: M	Initial Volume:	1,000 1.230 1,230 LCY volume: swell factor: UCTION ce: roduction: y description:	Cat Hand 50 feet 1,400.0 LC	lbook Y/hr			
So So <u>H</u> A U M A	Initial Volume: Swell factor: Loose volume: ource of estimated source of estimated so	1,000 1.230 <b>1,230</b> LCY volume: swell factor: <u>UCTION</u> ce: roduction: y description: nt:30 %	Cat Hand 50 feet 1,400.0 LC Compa	lbook Y/hr			
So So <u>H</u> A U M A	Initial Volume:	1,000 1.230 <b>1,230</b> LCY volume: swell factor: <u>UCTION</u> ce: roduction: y description: nt:30 %	Cat Hand 50 feet 1,400.0 LC Compa	lbook Y/hr			
So So <u>H</u> A M A	Initial Volume: Swell factor: Loose volume: ource of estimated source of estimated so	1,000 1.230 <b>1,230</b> LCY volume: swell factor: <u>UCTION</u> ce: roduction: y description: nt:30 % :8,550 f	Cat Hand 50 feet 1,400.0 LC Compa	lbook Y/hr			
So So <u>H</u> A U M A	Initial Volume: Swell factor: Loose volume: ource of estimated source of estimated so	1,000 1.230 <b>1,230</b> LCY volume: swell factor: <u>UCTION</u> ce: roduction: y description: nt:30 % :8,550 f	Cat Hand 50 feet 1,400.0 LC Compa  eet bs/LCY	lbook Y/hr			
So So <u>H</u> A <sup>1</sup> A <sup>1</sup> A <sup>1</sup> M W	Initial Volume: Swell factor: Loose volume: ource of estimated a ource of estimated a <b>IOURLY PROD</b> verage push distance nadjusted hourly pu- laterials consistency verage push gradie verage site altitude laterial weight: /eight description: ob Condition Correct	1,000 1.230 <b>1,230</b> LCY volume: swell factor: <u>UCTION</u> ce: roduction: y description: nt:30 % :3550 f  2,100 I Earth - ction Factor	Cat Hand 50 feet 1,400.0 LC <u>Compa</u> eet bs/LCY Loam	lbook Y/hr 	mbankment 0.9		
So So <u>H</u> A <sup>1</sup> A <sup>1</sup> A <sup>1</sup> M W	Initial Volume: Swell factor: Loose volume: ource of estimated ource outcome	1,000 1.230 <b>1,230</b> LCY volume: swell factor: <u>UCTION</u> ce: roduction: y description: nt:30 % :3550 f 2,100 I Earth - ction Factor ator Skill:	Cat Hand 50 feet 1,400.0 LC <u>Compa</u> eet bs/LCY Loam	lbook Y/hr icted fill or e			
So So <u>H</u> A <sup>1</sup> A <sup>1</sup> A <sup>1</sup> M W	Initial Volume: Swell factor: Loose volume: ource of estimated ource of estimated outcome ource of estimated outcome outco	1,000 1.230 <b>1,230</b> LCY volume: swell factor: <u>UCTION</u> ce: roduction: y description: nt:30 % :3550 f 2,100 I Earth - ction Factor ator Skill:	Cat Hand 50 feet 1,400.0 LC Compa eet bs/LCY Loam 0 0	lbook Y/hr 	mbankment 0.9		

Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.601	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.095	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.7857	
Adjusted unit production:1,	099.98 LCY/hr	

# JOB TIME AND COST

Adjusted fleet production: 1099.98 LCY/hr

Fleet size:	1 Dozer(s)
Unit cost:	\$0.292/LCY

Total job time:	<b>1.12</b> Hours
Total job cost:	\$360

# BULLDOZER WORK

Τa	ask description:	Tops	oil Replacer	nent			
e: _	Arapaho Pit		Per	mit Action:	Phase A-1 Reclamation	Permit/Job#:	M2024043
P	ROJECT IDEN	TIFICATIO	<u>DN</u>				
	Task #: 002		State:	Colorado		Abbreviation:	None
	Date: $\frac{002}{8/19/2}$	024	County:	Jackson		Filename:	M043-002
	User: BEH		<b>. . .</b>			· · · · · ·	
	Agency or	organization	name: DF	RMS			
H	OURLY EQUI	PMENT CO	<u>DST</u>				
	Basic Machine:	Cat D8T - 8	SU				
	Horsepower:	310	~				
	Blade Type:	Semi-Unive	ersal				
	Attachment:	NA					
	Shift Basis:	1 per day					
	Data Source:	(CRG)					
C	ost Breakdown:	× /					
					Utilization %		
(	Ownership Cost/He	our:		\$173.32	NA		
	Operating Cost/H			\$109.71	100		
	ipper own. Cost/H			\$0.00	NA		
	Ripper op. Cost/H			\$0.00	0		
-	Operator Cost/He			\$38.59	NA		
M	otal Fleet Cost/Hou	ANTITIES	52				
	Initial Volume:	26,265					
	Swell factor:	1.000					
	Loose volume:	26,265 LCY					
Sc	ource of estimated	volume:	Division	of Reclamati	on, Mining & Safety		
Sc	ource of estimated	swell factor:	Cat Hand	book			
н	OURLY PROD	UCTION					
		0011011					
	versee nuch distan	CA.	75 feet				
A	verage push distan nadjusted hourly p		75 feet 1,017.1 LC	Y/hr			
Av Ui		roduction:	1,017.1 LC		stockpile 1.1		
Av Ui M	nadjusted hourly p laterials consistenc	roduction:	1,017.1 LC		stockpile 1.1		
Av Ui M	nadjusted hourly p	roduction: y description ent:0 %	1,017.1 LC		stockpile 1.1		
Av Ui M Av	nadjusted hourly p laterials consistenc verage push gradie	roduction: y description ent:0 % ext:8,550	1,017.1 LC		stockpile 1.1		
An Ui M An An M	nadjusted hourly p laterials consistenc verage push gradie verage site altitude	roduction: y description ent:0 % ext:8,550 2,100	1,017.1 LC		stockpile 1.1		
A' Ui M A' A' M W	nadjusted hourly p laterials consistenc verage push gradie verage site altitude laterial weight: Veight description: bb Condition Corre	roduction: _ y description ent:	1,017.1 LC Partly of feet lbs/LCY - Loam	consolidated	Source		
A' Ui M A' A' M W	nadjusted hourly p laterials consistenc verage push gradie verage site altitude laterial weight: /eight description: <u>bb Condition Corre</u> Oper	roduction: _ y description ent:	1,017.1 LC Partly of feet lbs/LCY - Loam 0.	consolidated	Source (AVG.)		
An Ui M An An M W	nadjusted hourly p laterials consistenc verage push gradie verage site altitude laterial weight: Veight description: <u>bb Condition Corre</u> Oper Material co	roduction: _ y description ent:	1,017.1 LC Partly of feet lbs/LCY - Loam 0. 1.	consolidated	Source		

Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.700	(FND-MF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.095	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.5249	

Adjusted unit production:	533.88 LCY/hr
Adjusted fleet production:	<b>533.88</b> LCY/hr

# JOB TIME AND COST

Fleet size:	1 Dozer(s)
Unit cost:	\$0.602/LCY

Total job time:	49.20 Hours
Total job cost:	\$15,822

### WHEEL LOADER - LOAD AND CARRY WORK

Task description:	Topsoil Replacement				
Arapaho Pit	Permit Action:	Phase A-1 Reclamation	P	ermit/Job#:	M2024043
PROJECT IDENTIFIC	CATION				
Task #: 004	State: Colorado			previation:	None
Date:         8/22/2024           User:         BEH	County: Jackson			Filename:	M043-004
Agency or organiz	zation name: DRMS				
HOURLY EQUIPMEN	T COST				
Basic Machine:	CAT 924H	Hor	sepower:	]	128
Attachment 1: R	OPS Cab		ift Basis:		er day
		Dat	a Source:	(C	CRG)
Cost Breakdown:					
Ownership Cost/Ho	ur: \$26.01	Utilization % NA			
Operating Cost/Ho		100			
Operator Cost/Ho		NA			
Total Unit Cost/Ho	our: \$87.76				
Total Fleet Cost/He	our: \$87.76				
MATERIAL QUANTI	<u>FIES</u>				
Initial volume: <u>26,2</u>		Swell factor:	1.000		
Loose volume:	<b>26,265</b> LCY				
		of Reclamation, Mini	ng & Safet	ty	
Source of estin	nated swell factor: Cat Han	ddook			
HOURLY PRODUCTI	ON				
Loader Cycle Time:	Unadjusted Basic Cycle Time	e (load, dump, maneuve	er):	0.475	minutes
Cycle Time Factors				or (min.)	Source
Material:		er 0.02		.020	(Cat HB)
Stockpile:		annlingh1, 0,00		.020	(Cat HB)
Truck Ownership: Operation:				.000	(Cat HB) (Cat HB)
Dump Target:	*			.000	(Cat HB)
Dump rurget.		cle Time Adjustment:		.000	minutes
		ted Basic Cycle Time:		.475	minutes
Rolling Resistance – Road	Conditions	-			
Konnig Kesistance – Koad					
Haul:	Rutted dirt, little maintenance	e, no water, 1" tire pen	etration 4.	0	

Return: Rutted dirt, little maintenance, no water, 1" tire penetration 4.0

#### Haul and Return Time

	Length (feet)	Grade Res. (%)	Rolling Res. (%)	Total Res. (%)	Travel Time (minutes)	Source
Haul Route:	400	0.00	4.00	4.00	0.2539	(Cat HB)
Return Route:	400	0.00	4.00	4.00	0.2539	(Cat HB)

			Total Travel Ti	ne: 0.5078	minutes
			Total Cycle Ti	ne: <b>0.9828</b>	minutes
Load Bucket Capacity					
Rated Capac	eity: 2.70	LCY (heap	ped)		
Bucket Fill Fac	tor: 1.050	Moist loan	n or sandy clay (1	00% - 110%) 1.050	
Adjusted Capac	eity: <b>2.84</b>	LCY			
Job Condition Correcti Site Altitude: <u>8550</u> fee					
		Source			
Altitude Adj:	1.00	(CAT HB)	)		
Job Efficiency:	0.83	(1 shift/day	7)		
Net Correction:	0.83	multiplier			
U	Inadjusted Hourly Un Adjusted Hourly Un		<u>173.08</u> 143.66	LCY/Hour LCY/Hour	
	Adjusted Hourly Flee		143.66	LCY/Hour	
JOB TIME AND C	<u>OST</u>				
Fleet size:	1 Loader(s	5)	Total job time:	182.83	Hours

 Unit cost:
 \$0.611
 /LCY
 Total job cost:
 \$16,045

## **REVEGETATION WORK**

e: Arapaho	Pit	Pe	rmit Action:	Phase A-1 Reclamation	Permit/Jol	o#: <u>M2024043</u>
PROJECT Task #:	IDENTIFIC	CATION State:	Colorado		Abbreviation:	None
Date: User:	8/22/2024 BEH	County:	Jackson		Filename:	M043-005

### **FERTILIZING**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Composted manure DRMS Survey	20.00	pound	\$0.43	\$8.56
			Total Fertilizer Materials Cost/Acre	\$8.56

#### Application

Description		Cost /Acre
Manure, tractor spreader (MEANS 32 91 13.23 4450)		\$77.10
	<b>Total Fertilizer Application Cost/Acre</b>	\$77.10

### **TILLING**

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
Weed control spraying (MEANS 31 31 16.13 3100)	\$338.80
Total Tilling Cost/Acre	\$456.41

#### **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Arizona Fescue - Redondo	5.00	57.39	\$75.32
Prairie Clover, Purple - Kaneb	0.50	3.42	\$22.45
Sandberg Bluegrass - VNS	4.00	84.94	\$57.79
Smooth Brome - Lincoln	4.00	13.31	\$19.43
Bluebunch Wheatgrass - Goldar	6.00	19.28	\$68.76
Totals Seed Mix	19.50	178.35	\$243.74

Application

Description		Cost /Acre
Broadcast seeding [DMG]		\$272.56
	Total Seed Application Cost/Acre	\$272.56

#### **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
					\$
Totals Nursery Stock Cost / Acre					\$0.00

#### JOB TIME AND COST

No. of Acres:	24.4	Cost /Acre:	\$1,058.37
Estimated Failure Rate:	50%	Cost /Acre*:	\$516.30
*Selected Replanting Work Items:	SEEDING		

Initial Job Cost:	\$25,824.23
Reseeding Job Cost:	\$6,298.86
Total Job Cost:	\$32,123
Job Hours:	36.00

## EQUIPMENT MOBILIZATION/DEMOBILIZATION

Arapaho Pit		Permit		Phase A-1 Reclamation		Permit/Job#: <u>M</u>	2024043
ROJECT IDI	ENTIFICATI	ON					
Task #: 00	)6	State: Co	olorado		Abbr	eviation: None	
Date: 8/	22/2024	County: Jac	ckson		F	ilename: M043	3-006
User: B	EH	·					
A							
Agency	or organization	n name: DRMS					
OUIPMENT	TRANSPOR	T RIG COST					
					Shift ba	sis: 1 per da	W
					Cost Data Sou		
True	ck Tractor Desc	ription: GENE	RIC ON-H			OR, 6X4, DIESEI	L POWERED,
					P (2ND HALF,	,	
Tru	ck Trailer Desc	ription: G	ENERIC F			ROP DECK EQU	IPMENT
				TRAILEF	R (25T, 50T, Al	ND 100T)	
Cost Breakdown:							
Cost Breakdown:		0-25 Tons	26-50 T	ons 51	+ Tons		
Available Rig	Capacities	<b>0-25 Tons</b> \$10.44	<b>26-50 T</b> \$22.1		1+ <b>Tons</b> \$23.94		
Available Rig Ownershi	C <b>apacities</b> ip Cost/Hour:	\$10.44	\$22.1	8 9	\$23.94		
Available Rig Ownersh Operatin	C <b>apacities</b> ip Cost/Hour: ig Cost/Hour:	\$10.44 \$26.48	\$22.1 \$54.5	8 9 5 9	\$23.94 \$55.65		
Available Rig ( Ownershi Operatin Operato	Capacities ip Cost/Hour: ag Cost/Hour: or Cost/Hour:	\$10.44 \$26.48 \$22.52	\$22.1 \$54.5 \$22.5	8 9 5 9 2 9	\$23.94 \$55.65 \$22.52		
Available Rig ( Ownershi Operatin Operato Helpo	Capacities ip Cost/Hour: ig Cost/Hour: or Cost/Hour: er Cost/Hour:	\$10.44 \$26.48 \$22.52 \$0.00	\$22.1 \$54.5 \$22.5 \$23.5	8 9 5 9 2 9 3 9	\$23.94 \$55.65 \$22.52 \$23.53		
Available Rig ( Ownershi Operatin Operato Helpo	Capacities ip Cost/Hour: ag Cost/Hour: or Cost/Hour:	\$10.44 \$26.48 \$22.52	\$22.1 \$54.5 \$22.5	8         9           5         9           2         9           3         9	\$23.94 \$55.65 \$22.52		
Available Rig ( Ownershi Operatin Operato Helpo	Capacities ip Cost/Hour: ig Cost/Hour: or Cost/Hour: er Cost/Hour: it Cost/Hour:	\$10.44 \$26.48 \$22.52 \$0.00 \$59.44	\$22.1 \$54.5 \$22.5 \$23.5	8         9           5         9           2         9           3         9	\$23.94 \$55.65 \$22.52 \$23.53		
Available Rig of Ownershi Operatin Operato Helpo Total Un	Capacities ip Cost/Hour: ig Cost/Hour: or Cost/Hour: er Cost/Hour: it Cost/Hour: BLE EQUIPN	\$10.44 \$26.48 \$22.52 \$0.00 \$59.44 MENT:	\$22.1 \$54.5 \$22.5 \$23.5 \$122.7	8     9       5     9       2     9       3     9       78     \$	\$23.94 \$55.65 \$22.52 \$23.53 1125.64	Return Trip	DOT Permit
Available Rig of Ownershi Operatin Operato Helpo Total Un NON ROADA	Capacities ip Cost/Hour: ig Cost/Hour: or Cost/Hour: er Cost/Hour: it Cost/Hour:	\$10.44 \$26.48 \$22.52 \$0.00 \$59.44	\$22.1 \$54.5 \$22.5 \$23.5	8 9 5 9 2 9 3 9 78 \$	\$23.94 \$55.65 \$22.52 \$23.53	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
Available Rig of Ownershi Operatin Operato Helpo Total Un	Capacities ip Cost/Hour: or Cost/Hour: er Cost/Hour: it Cost/Hour: BLE EQUIPN Weight/ Unit	\$10.44 \$26.48 \$22.52 \$0.00 \$59.44 MENT: Owner ship	\$22.1 \$54.5 \$22.5 \$23.5 \$122.7 Haul Rig	8 9 5 9 2 9 3 9 78 \$	\$23.94 \$55.65 \$22.52 \$23.53 \$125.64 Haul Trip	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
Available Rig of Ownershi Operatin Operato Helpo Total Un NON ROADA	Capacities ip Cost/Hour: ig Cost/Hour: or Cost/Hour: er Cost/Hour: it Cost/Hour: BLE EQUIPN Weight/	\$10.44 \$26.48 \$22.52 \$0.00 \$59.44 MENT: Owner ship	\$22.1 \$54.5 \$22.5 \$23.5 \$122.7 Haul Rig Cost/hr/v	8 9 5 9 2 9 3 9 78 \$	\$23.94 \$55.65 \$22.52 \$23.53 \$125.64 Haul Trip Cost/hr/	Return Trip Cost/hr/ fleet \$59.44	
Available Rig of Ownershi Operatin Operato Helpo Total Un NON ROADA	Capacities ip Cost/Hour: or Cost/Hour: er Cost/Hour: it Cost/Hour: BLE EQUIPN Weight/ Unit (TONS)	\$10.44 \$26.48 \$22.52 \$0.00 \$59.44 <b>MENT:</b> Owner ship Cost/hr/ unit	\$22.1 \$54.5 \$22.5 \$23.5 \$122.7 Haul Rig Cost/hr/t	8         9           5         9           2         9           3         9           78         \$           g         Fleet           mi         Size	\$23.94 \$55.65 \$22.52 \$23.53 \$125.64 Haul Trip Cost/hr/ fleet	Cost/hr/ fleet	Cost/ fleet
Available Rig of Ownershi Operatin Operato Helpo Total Un NON ROADA Machine Description CAT 924H Cat D8T - 8SU Drill/Broadcast	Capacities ip Cost/Hour: or Cost/Hour: er Cost/Hour: it Cost/Hour: BLE EQUIPN Weight/ Unit (TONS) 12.69	\$10.44 \$26.48 \$22.52 \$0.00 \$59.44 <b>MENT:</b> Owner ship Cost/hr/ unit \$26.01	\$22.1 \$54.5 \$22.5 \$23.5 \$122.7 Haul Rig Cost/hr/v t \$59.44	8     9       5     9       2     9       3     9       78     \$       g     Fleet       ni     Size       1	\$23.94 \$55.65 \$22.52 \$23.53 \$125.64 Haul Trip Cost/hr/ fleet \$85.45	Cost/hr/ fleet \$59.44	Cost/ fleet \$250.00
Available Rig of Ownershi Operatin Operato Helpo Total Un NON ROADA Machine Description CAT 924H Cat D8T - 8SU Drill/Broadcast Seeder with	Capacities ip Cost/Hour: ig Cost/Hour: or Cost/Hour: er Cost/Hour: it Cost/Hour: BLE EQUIPN Weight/ Unit (TONS) 12.69 53.08	\$10.44 \$26.48 \$22.52 \$0.00 \$59.44 <b>MENT:</b> Owner ship Cost/hr/ unit \$26.01 \$187.85	\$22.1 \$54.5 \$22.5 \$23.5 \$122.7 Haul Rig Cost/hr/u t \$59.44 \$125.64	8     9       5     9       2     9       3     9       78     \$       9     Fleet       1     1	\$23.94 \$55.65 \$22.52 \$23.53 \$125.64 Haul Trip Cost/hr/ fleet \$85.45 \$313.49	Cost/hr/ fleet \$59.44 \$125.64	Cost/ fleet \$250.00 \$250.00
Available Rig of Ownershi Operatin Operato Helpo Total Un NON ROADA Machine Description CAT 924H Cat D8T - 8SU Drill/Broadcast	Capacities ip Cost/Hour: ig Cost/Hour: or Cost/Hour: er Cost/Hour: it Cost/Hour: BLE EQUIPN Weight/ Unit (TONS) 12.69 53.08	\$10.44 \$26.48 \$22.52 \$0.00 \$59.44 <b>MENT:</b> Owner ship Cost/hr/ unit \$26.01 \$187.85	\$22.1 \$54.5 \$22.5 \$23.5 \$122.7 Haul Rig Cost/hr/u t \$59.44 \$125.64	8     9       5     9       2     9       3     9       78     \$       9     Fleet       1     1	\$23.94 \$55.65 \$22.52 \$23.53 \$125.64 Haul Trip Cost/hr/ fleet \$85.45 \$313.49	Cost/hr/ fleet \$59.44 \$125.64	Cost/ fleet \$250.00 \$250.00
Available Rig ( Ownershi Operatin Operato Helpo Total Un NON ROADA Machine Description CAT 924H Cat D8T - 8SU Drill/Broadcast Seeder with	Capacities ip Cost/Hour: ig Cost/Hour: or Cost/Hour: er Cost/Hour: it Cost/Hour: BLE EQUIPN Weight/ Unit (TONS) 12.69 53.08	\$10.44 \$26.48 \$22.52 \$0.00 \$59.44 <b>MENT:</b> Owner ship Cost/hr/ unit \$26.01 \$187.85	\$22.1 \$54.5 \$22.5 \$23.5 \$122.7 Haul Rig Cost/hr/u t \$59.44 \$125.64	8     9       5     9       2     9       3     9       78     \$       9     Fleet       1     1	\$23.94 \$55.65 \$22.52 \$23.53 \$125.64 Haul Trip Cost/hr/ fleet \$85.45 \$313.49 \$100.46	Cost/hr/ fleet \$59.44 \$125.64	Cost/ fleet \$250.00 \$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, 3/4 T.	\$13.77	1	\$13.77	\$13.77
		Subtotals:	\$13.77	\$13.77

## **EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region:	STEAMBOAT SPRINGS	
Total one-way travel distance:	46.00	miles
Average Travel Speed:	40.00	mph
Total Non-Roadable Mob/Demob Cost *	\$4,209.82	_
** one round trip, no haul rig:	\$31.67	

#### Transportation Cycle Time:

Non-	
Roadable	Roadable
Equipment	Equipment
1.15	1.15
1.15	1.15
0.50	NA
0.50	NA
3.30	2.30
	Roadable           Equipment           1.15           0.50           0.50

#### JOB TIME AND COST

Total job time:	6.60	Hours
Total job cost:	\$4,241	