

COST SUMMARY WORK

Task description: Technical Revision 101 Summary Sheet

Site: Colowyo Coal Mine Permit Action: Technical Revision 101 Permit/Job#: C1981019

PROJECT IDENTIFICATION

Task #: 0AA State: Colorado Abbreviation: None
Date: 4/8/2014 County: Moffat Filename: C019-0AA
User: JRS

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
08A	Doze West Pit Spoil from Technical Revision 101	DOZER	4	1,678.94	\$2,987,695.94
<u>SUBTOTALS:</u>				1678.94	\$2,987,695.94

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02%	Total =	<u>\$60,351.46</u>
Performance bond:	1.05%	Total =	<u>\$31,370.81</u>
Job superintendent:	0.00 hrs	Total =	<u>\$0.00</u>
Profit:	10.00%	Total =	<u>\$298,769.59</u>
		TOTAL O & P =	<u>\$390,491.86</u>
		CONTRACT AMOUNT (direct + O & P) =	<u>\$3,378,187.80</u>

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs):	<u>0.00</u>	Total =	<u>0.00</u>
Engineering work and/or contract/bid preparation:	<u>2.00%</u>	Total =	<u>\$67,563.76</u>
Reclamation management and/or administration:	<u>1.91%</u>		<u>\$64,523.39</u>

CONTINGENCY: 0.00 Total = \$0.00

TOTAL INDIRECT COST = \$522,579.00

TOTAL BOND AMOUNT (direct + indirect) = \$3,510,274.94

BULLDOZER WORKTask description: **Doze West Pit Spoil from Technical Revision 101**

Site: **Colowyo Coal Mine** Permit Action: **Technical Revision 101** Permit/Job#: **C1981019**

PROJECT IDENTIFICATION

Task #: **08A** State: **Colorado** Abbreviation: **None**
 Date: **4/8/2014** County: **Moffat** Filename: **C019-08A**
 User: **JRS**

Agency or organization name: **DRMS****HOURLY EQUIPMENT COST**

Basic Machine: **Cat D11R - 11U**
 Horsepower: **850**
 Blade Type: **Universal**
 Attachment: **NA**
 Shift Basis: **1 per day**
 Data Source: **(CRG)**

Cost Breakdown:

		<u>Utilization %</u>
Ownership Cost/Hour:	<u>\$126.54</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$280.92</u>	<u>100</u>
Ripper op. Cost/Hour:	<u>\$0.00</u>	<u>0</u>
Operator Cost/Hour:	<u>\$37.41</u>	<u>NA</u>

Total unit Cost/Hour: **\$444.88**
 Total Fleet Cost/Hour: **\$1,779.52**

MATERIAL QUANTITIES

Initial Volume: **9,678,071**
 Swell factor: **1.000**
 Loose volume: **9,678,071 LCY**

Source of estimated volume: **Division of Reclamation, Mining & Safety**
 Source of estimated swell factor: **Cat Handbook**

HOURLY PRODUCTION

Average push distance: **250 feet**
 Unadjusted hourly production: **1,264.9 LCY/hr**

Materials consistency description: **Partly consolidated stockpile 1.1**

Average push gradient: **-25 %**
 Average site altitude: **7,600 feet**

Material weight: **2,572 lbs/LCY**Weight description: **User Provided**

<u>Job Condition Correction Factor</u>	<u>Source</u>
Operator Skill: <u>0.900</u>	<u>(AB.AVG.)</u>
Material consistency: <u>1.100</u>	<u>(CAT HB)</u>

Dozing method:	1.100	(50% SL)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	1.000	(DOZ-OC)
Push gradient:	1.516	(CAT HB)
Altitude:	0.930	(CAT HB)
Material Weight:	0.894	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 1.1393

Adjusted unit production: 1,441.10 LCY/hr

Adjusted fleet production: **5764.4 LCY/hr**

JOB TIME AND COST

Fleet size: 4 Dozer(s)

Unit cost: \$0.309/LCY

Total job time: **1,678.94 Hours**

Total job cost: **\$2,987,695.94**