Musick - DNR, Jason <jason.musick@state.co.us>

Peabody NOI Status Update Request

1 message

Musick - DNR, Jason <jason.musick@state.co.us> To: Jerry Nettleton <jnettleton@peabodyenergy.com> Fri, May 5, 2017 at 9:33 AM

Good morning Jerry,

As a part of the Division's on-going review of currently inactive NOIs, the Division has compiled a list of NOIs that are currently expired and have inadequate bond. Attached is a list of the NOIs associated with Peabody operations that will require action.

Please let me know if you have any questions or comments.

Thanks, Jason

Jason Musick Environmental Protection Specialist III Coal Regulatory Program



COLORADO Division of Reclamation, Mining and Safety

Department of Natural Resources

P 303.866.3567 x 8134 | F 303.832.8106 1313 Sherman Street, Room 215, Denver, CO 80203 jason.musick@state.co.us | http://mining.state.co.us

2017_Status_Update.pdf 1300K



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

1313 Sherman Street, Room 215 Denver, CO 80203

May 5, 2017

Jerry Nettleton Twentymile Coal, LLC. 29515 Routt County Road #27 Oak Creek, CO 80467

RE: Notice of Intent No(s). X-1983-159-05, X-1983-169-08, X-1985-159-09, X-1987-168-20, X-1988-198-22, X1990-168-23, X-1993-168-27, X-1994-214-00, X-1996-219-00, X-1996-219-01, X-1998-219-03, X-1999-205-06, X-2011-231-02 Expiration Date and Update of Cost Estimates

Dear Mr. Nettleton,

In accordance with Rule 3.05.2(4) of the Rules and Regulations of the Colorado Mined Land Reclamation Board for Coal Mining, the amount of performance bond required shall be adjusted by the Division from time to time for good cause in accordance with 3.02.2(4). Rule 3.02.2(4) requires the performance bond to be adjusted every two and one-half years.

In addition, the above noted Notice of Intent(s) (NOI) have expired. As such, the NOIs are no longer ACTIVE. An NOI will remain active until such time that the activities associated with the NOI have been completed and bond release granted. In order for the NOI to be brought back into active status, an amendment to the NOI requesting a change in the expiration date is required.

Below is a list of the now INACTIVE NOI's and the NOI's current status, along with the requirements to ensure that the NOI is in compliance and ACTIVE.

X-1983-159-05 - Expired January 1, 2016. One monitoring well remains un-reclaimed under this NOI. The Division currently holds a corporate surety for \$58,500.00. Based on the Division's 2017 Reclamation Cost Estimate (RCE) the required liability is \$359.37. If it is the intention of Peabody to continue to leave the well un-reclaimed, Please provide the Division with an amendment request extending the expiration date to such time that all reclamation activities have been completed.

X-1983-159-08 - Expired January 1, 2016. Six monitoring wells remains un-reclaimed under this NOI. The Division currently holds a corporate surety for \$12,008.00. Based on the Division's 2017 Reclamation Cost Estimate (RCE) the required liability is \$11,944.83. If it is the intention of Peabody to continue to leave the wells un-reclaimed, Please provide the Division with an amendment request extending the expiration date to such time that all reclamation activities have been completed.



Peabody Energy, LLC Page 2 5/5/2017

X-1985-159-09 - Expired January 1, 2016. Fourteen monitoring wells remains un-reclaimed under this NOI. The Division currently holds a corporate surety for \$22,678.00. Based on the Division's review, the BLM noted that their agency would take over the responsibility of the wells. If it is the case that BLM will be responsible for the reclamation of the wells, Peabody will be required to work with the BLM and provide the Division with a Succession of Operators to transfer the NOI to BLM or BLM reclaim the wells and then Peabody request bond release. If it is the intention of Peabody to continue to leave the wells un-reclaimed, Please provide the Division with an amendment request extending the expiration date to such time that all reclamation activities have been completed.

X-1987-168-20 - Expired January 1, 2016. Five monitoring wells remains un-reclaimed under this NOI. The Division currently holds a corporate surety for \$483.46. Based on the Division's 2017 Reclamation Cost Estimate (RCE) the required liability is \$380.86. If it is the intention of Peabody to continue to leave the wells un-reclaimed, Please provide the Division with an amendment request extending the expiration date to such time that all reclamation activities have been completed.

X-1988-168-22 - Expired January 1, 2016. Five monitoring wells remains un-reclaimed under this NOI. The Division currently holds a corporate surety for \$8,426.91. Based on the Division's 2017 Reclamation Cost Estimate (RCE) the required liability is \$9,515.06. If it is the intention of Peabody to continue to leave the wells un-reclaimed, Please provide the Division with an amendment request extending the expiration date to such time that all reclamation activities have been completed and provide the Division with an updated bond instrument to reflect the updated required liability.

X-1990-168-23 - Expired January 1, 2016. Twenty monitoring wells remains un-reclaimed under this NOI. The Division currently holds a corporate surety for \$27,832.61. Based on the Division's 2017 Reclamation Cost Estimate (RCE) the required liability is \$33,413.87. If it is the intention of Peabody to continue to leave the wells un-reclaimed, Please provide the Division with an amendment request extending the expiration date to such time that all reclamation activities have been completed and provide the Division with an updated bond instrument to reflect the updated required liability.

X-1993-168-27 - Expired January 1, 2016. Two monitoring wells remains un-reclaimed under this NOI. The Division currently holds a corporate surety for \$4,579.30. Based on the Division's 2017 Reclamation Cost Estimate (RCE) the required liability is \$5,581.34. If it is the intention of Peabody to continue to leave the wells un-reclaimed, Please provide the Division with an amendment request extending the expiration date to such time that all reclamation activities have been completed and provide the Division with an updated bond instrument to reflect the updated required liability.

X-1994-214-00 - Expired January 1, 2016. Four monitoring wells remains un-reclaimed under this NOI. The Division currently holds a corporate surety for \$8,568.00. Based on the Division's 2017 Reclamation Cost Estimate (RCE) the required liability is \$21,642.98. If it is the intention of Peabody to continue to leave the wells un-reclaimed, **Please provide the Division with an amendment request extending the**

Peabody Energy, LLC Page 3 5/5/2017

expiration date to such time that all reclamation activities have been completed and provide the Division with an updated bond instrument to reflect the updated required liability.

X-1996-219-00 - Expired January 1, 2016. Six monitoring wells remains un-reclaimed under this NOI. The Division currently holds a corporate surety for \$21,725.41. Based on the Division's 2017 Reclamation Cost Estimate (RCE) the required liability is \$32,016.38. If it is the intention of Peabody to continue to leave the wells un-reclaimed, Please provide the Division with an amendment request extending the expiration date to such time that all reclamation activities have been completed and provide the Division with an updated bond instrument to reflect the updated required liability.

X-1996-219-01 - Expired January 1, 2016. Twenty monitoring wells remains un-reclaimed under this NOI. The Division currently holds a corporate surety for \$48,292.25. Based on the Division's 2017 Reclamation Cost Estimate (RCE) the required liability is \$69,988.06. If it is the intention of Peabody to continue to leave the wells un-reclaimed, Please provide the Division with an amendment request extending the expiration date to such time that all reclamation activities have been completed and provide the Division with an updated bond instrument to reflect the updated required liability.

X-1998-219-02 - Expired January 1, 2016. Nine monitoring wells remains un-reclaimed under this NOI. The Division currently holds a corporate surety for \$382.23. Based on the Division's 2017 Reclamation Cost Estimate (RCE) the required liability is \$724.79. If it is the intention of Peabody to continue to leave the wells un-reclaimed, Please provide the Division with an amendment request extending the expiration date to such time that all reclamation activities have been completed and provide the Division with an updated bond instrument to reflect the updated required liability.

X-1998-219-03 - Expired January 1, 2016. Twelve monitoring wells remains un-reclaimed under this NOI. The Division currently holds a corporate surety for \$477.00. Based on the Division's 2017 Reclamation Cost Estimate (RCE) the required liability is \$933.42. If it is the intention of Peabody to continue to leave the wells un-reclaimed, Please provide the Division with an amendment request extending the expiration date to such time that all reclamation activities have been completed and provide the Division with an updated bond instrument to reflect the updated required liability.

X-1999-205-06 - Expired January 1, 2016. One monitoring well remains un-reclaimed under this NOI. The Division currently holds a corporate surety for \$3,599.85. Based on the Division's 2017 Reclamation Cost Estimate (RCE) the required liability is \$4,824.39. If it is the intention of Peabody to continue to leave the wells un-reclaimed, Please provide the Division with an amendment request extending the expiration date to such time that all reclamation activities have been completed and provide the Division with an updated bond instrument to reflect the updated required liability.

X-2011-231-02 - Expired January 1, 2016. One monitoring well remains un-reclaimed under this NOI. The Division currently holds a corporate surety for \$4,946.00. Based on the Division's 2017 Reclamation Cost Estimate (RCE) the required liability is \$5,191.68. If it is the intention of Peabody to continue to

Peabody Energy, LLC Page 4 5/5/2017

leave the wells un-reclaimed, Please provide the Division with an amendment request extending the expiration date to such time that all reclamation activities have been completed and provide the Division with an updated bond instrument to reflect the updated required liability.

If you have any questions or comments feel free to contact me. (303) 866-3567 ext 8134

Sincerely,

mit

Jason Musick Environmental Protection Specialist Jason.musick@sate.co.us

Enclosers

COST SUMMARY WORK

	cription: Su	mmary of Tasks Remaini	ing Under X1983	15905		
Site: Iles M	ountain	Permit Action:	2017 Review		Permit/Jol	o#: X198315905
PROJEC	T IDENTIFICAT	ION				
Task #	t: 000	State: Colorado		A	Abbreviation:	None
Date		County: Moffat			Filename:	X159-000
User	:: JDM	-				
A	Agency or organization	n name: DRMS				
TASK LI	ST (DIRECT COS	<u>STS)</u>				
		<u>_</u>	Form	Fleet	Task	
	ription		Used	Size	Hours	Cost
01 Seal	and Abandon Remain	ing Water Well	BOREHOLE	1	3.00	\$194.35
			SUBTO)TALS:	3	\$194
			50010			
		OJECT MANAGEMENT			$Total = \frac{\$}{Total} = \frac{\$}{\$}$ $C \& P = \frac{\$}{\$}$ $O \& P) = \frac{\$}{\$}$	2.04 109.58 19.40 134.94 328.94
		ing (legal/related costs):	0.00	_		00
Luis.		contract/bid preparation	4.20		Total = \$.00
	clamation management	contract/bid preparation: nt and/or administration:	4.25 5.00	_		00 13.98 16.45
	clamation managemen			_	\$	13.98
	clamation managemen	nt and/or administration:	5.00 0.00	- - NDIRECT	\$	13.98 16.45 0.00

BOREHOLE SEALING WORK

	Task description:	Seal and Abandon Remaining	g Water Well		
Site:	Iles Mountain	Permit Action: 20	017 Review P	Permit/Job#:	X198315905
	PROJECT IDENTIFIC	CATION			
	Task 001	Stata: Colorado	Abbraviation	Nona	

Task #:	001	State:	Colorado	Abbreviation:	None
Date:	5/1/2017	County:	Moffat	Filename:	X159-001
User:	JDM				

Agency or organization name: DRMS

UNIT COSTS

Borehole Description	Sealing/Item Method	Diameter	Length	Quantity	Unit	Unit Cost	Total Cost
Plug Well 035-83-35	PVC plug - 6 in. diameter borehole	6.00	NA	1.00	EA	\$54.14	\$54.14
Seal Well 035-83-35	Portland cement grout (Bag, material cost only94 lb. bag)	6.00	60.00	6.00	bag	\$10.55	\$63.30
Labor	General laborer - Colorado (total incl. fringes, empl. burden)	NA	NA	3.00	HR	\$23.53	\$70.59
Borehole Marker	Borehole location/identification marker (EA, material cost only)	NA	NA	1.00	EA	\$3.67	\$3.67
Cut Casing at Surface	Exposed casing removal - Calculate Circumference in Linear Feet	6.00	1.5	1.50	LF	\$1.77	\$2.66

 Job Hours:
 3.00
 Total Cost:
 \$194.00

COST SUMMARY WORK

]	Task description:	Summary of Rer	naining Rec	lamation Tasks			
Site:	Twentymile Fish Cree	k Per	rmit Action:	2017 Review		Permit/Job	#: <u>X198316908</u>
<u>P</u>]	ROJECT IDENTIFIC	CATION					
	Task #: 000 Date: 5/1/2017 User: JDM	County:	Colorado Routt		#	Abbreviation: _ Filename: _	None X169-000
	Agency or organi	zation name: DR	RMS				
<u>T</u>	ASK LIST (DIRECT	COSTS)					
Task	Description	· ·		Form Used	Fleet Size	Task Hours	Cost
001 002	Seal and Abandon Re Mobilize/Demobilize			BOREHOLE MOBILIZE	1 1	21.00 2.30	\$8,066.79 \$850.00
				<u>SUBTO</u>	TALS:	23.3	\$8,917
	I <mark>DIRECT COSTS</mark> VERHEAD AND PROFI	í T .					
<u>u</u>	Liability insurar Performance bo Job superintendo	nce: 2.02 ond: 1.05	CONTR	RACT AMOUNT		$Total = \frac{\$9}{Total} = \frac{\$8}{Total} = \frac{\$8}{\$8}$ $Total = \frac{\$8}{\$2} O \& P = \frac{\$2}{\$2}$	80.12 3.63 51.03 91.70 016.48 0,933.48
LI	EGAL - ENGINEERING	- PROJECT MANA	AGEMENT:				
	Financial warranty pr Engineering work an Reclamation manag	d/or contract/bid pr	eparation:	0.00 4.25 5.00			00 64.67 46.67
		CONTIN	IGENCY:	0.00		Total =\$0	.00
				TOTAL IN	DIRECT	COST = 33	,027.83
		Т	TOTAL BON	ND AMOUNT (di	irect + in	direct) = <u>\$1</u>	1,944.83

BOREHOLE SEALING WORK

Task d	escription:	Seal and Abandon	Remain	ing Boreholes			
ite: Twent	ymile Fish Creek	Permit A	Action:	2017 Review	P	ermit/Job#:	X198316908
PROJE	ECT IDENTIFIC	CATION					
Tasl #		State: Col	orado		Abbreviation:	None	
	ŧ:	State: Colo			Abbreviation: Filename:	None X169-001	

UNIT COSTS

Borehole Description	Sealing/Item Method	Diamete r	Lengt h	Quantit v	Uni t	Unit Cost	Total Cost
Plug wells FBR- 12A,12B,13,14,15A,1 5B	PVC plug - 4 in. diameter borehole	4.33	NA	6.00	EA	\$29.95	\$179.70
Seal wells FBR- 12A,12B,13,14,15A,1 5B	Portland cement grout (Bag, material cost only94 lb. bag)	4.33	2619.0 0	135.00	bag	\$10.55	\$1,424.2 5
Drill Rig and Labor	SCHRAMM T450WS	NA	NA	21.00	EA	\$262.1 9	\$5,505.9 9
Water Truck	Water Tanker, 2,500 Gal.	NA	NA	21.00	EA	\$44.01	\$924.21
Borehole Marker	Borehole location/identificati on marker (EA, material cost only)	NA	NA	6.00	EA	\$3.67	\$22.02
Cut Casing	Exposed casing removal - Calculate Circumference in Linear Feet	4.33	1.0	6.00	LF	\$1.77	\$10.62

 Job Hours:
 21.00
 Total Cost:
 \$8,067.00

Task # 000

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EQUIPMENT MOBILIZATION/DEMOBILIZATION

: Twentymile	Fish Creek	Permit	Action:	2017 Review	Р	ermit/Job#:	X198316908
· · · · ·			-			· _	
PROJECT IDI	<u>ENTIFICATI</u>	<u>ON</u>					
Task #: 00)2	State: Co	olorado		Abbrev	viation: Nor	ne
Date: 5/	1/2017	County: Ro	outt		Fil	ename: X1	69-002
User: JE	DM						
Agency	or organization	n name: DRMS					
EQUIPMENT	TRANSPOR'	T RIG COST					
					01.0.1	. 1	1
					Shift bas Cost Data Sourc	- F -	
Truc	ck Tractor Descr	ription: GENE	RIC ON-				EL POWERED,
т	ak Trailar Dese	ription:	ENEDIC		(2ND HALF, 2		MENT
1 ru	ck Trailer Desc	ription: G	ENERIC	FOLDING GOO TRAILER	(25T, 50T, AN		UIPWIENI
				TRALLER	(251, 501, 711)	D 1001)	
Cost Breakdown:							
Available Rig	Capacities	0-25 Tons	26-50	Tons 51	+ Tons		
	ip Cost/Hour:	\$16.63	\$18	.37 \$	22.33		
	ng Cost/Hour:	\$44.38	\$46		50.07		
	or Cost/Hour:	\$27.66	\$27		27.66		
1	er Cost/Hour:	\$0.00	\$25		25.39		
Total Un	it Cost/Hour:	\$88.67	\$117	7.55 \$1	25.45		
NON ROADAI	BLE EQUIPN	AENT:					
Machine	Weight/	Owner ship	Haul R	ig Fleet	Haul Trip	Return Trip	DOT Permit
Description	Unit	Cost/hr/ unit	Cost/h	-	Cost/hr/	Cost/hr/ fleet	
Desemption	(TONS)		t		fleet		
SCHRAMM T450WS	0.00	\$83.42	\$88.67	1	\$172.09	\$88.67	\$250.00
				Subtotals	\$172.09	\$88.67	\$250.00
	EQUIPMENT	<u>'•</u>					
ROADABLE F	ption	Total Cost/hr/	Fl	eet Size	Haul Trip	Return Tri	
					Cost/hr/ fleet	Cost/hr/ fle	
Machine Descri		unit					
		unit \$44.01	1		\$44.01	\$44.01	

Nearest Major City or Town within project area region: Total one-way travel distance: Average Travel Speed:	HAYDEN 23.00 40.00	miles mph
Total Non-Roadable Mob/Demob Cost * '* two round trips with haul rig:	\$799.87	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$50.61	

Transportation Cycle Time:

	Non- Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.58	0.58
Return Time (Hours):	0.58	0.58
Loading Time (Hours):	0.00	NA
Unloading Time (Hours):	0.00	NA
Subtotals:	1.15	1.15

JOB TIME AND COST

Total job time:	2.30	Hours
Total job cost:	\$850	

COST SUMMARY WORK

	ask description: Summ	nary of remaining Rec	lamation Tasks				
te:	Peabody Seneca II Alluvial Wells	Permit Action:	2017 Review		Permit	/Job#	: X198716820
<u>PF</u>	OJECT IDENTIFICATIO	N					
	Task #: 000	State: Colorado		I	Abbreviatio	n:	None
	Date: 5/1/2017	County: Routt			Filenam	e:	X168-000
	User: JDM						
	Agency or organization na	ame: DRMS					
<u>T</u> /	ASK LIST (DIRECT COSTS	<u>S)</u>					
ask	Description		Form Used	Fleet Size	Task Hours		Cost
)1	Seal and Abandon Remaining Well	g Water Monitoring	BOREHOLE	1	1.00		\$275.95
			<u>SUBTO</u>	TALS:		1	\$276
IN	DIRECT COSTS						
	ZERHEAD AND PROFIT: Liability insurance: 2 Performance bond: 1 Job superintendent: 0	2.02 .05 0.50 0.00 CONTI	RACT AMOUNT		Total = $Total =$ $Total =$ $Total =$ $O & P =$ $O & P =$	\$5.: \$2.9 \$36 \$27 \$72 \$34	90 5.53 6.60
01	ZERHEAD AND PROFIT: Liability insurance: 2 Performance bond: 1 Job superintendent: 0	.05 0.50 0.00 CONTI			Total = Total = Total = $z O & P = $	\$2.9 \$36 \$27 \$72	90 .53 .60 .61
01	VERHEAD AND PROFIT: Liability insurance: 2 Performance bond: 1 Job superintendent: 0 Profit: 1 GAL - ENGINEERING - PROJI	.05 0.50 0.00 CONTI ECT MANAGEMENT:			Total = Total = Total = $z O & P = $	\$2.9 \$36 \$27 \$72	90 .53 .60 .61 8.61
<u>0\</u>	VERHEAD AND PROFIT: Liability insurance: 2 Performance bond: 1 Job superintendent: 0 Profit: 1 GAL - ENGINEERING - PROJJ Financial warranty processing Engineering work and/or con	.05 0.50 0.00 ECT MANAGEMENT: g (legal/related costs): utract/bid preparation:	0.00 4.25		Total = Total = Total = $C & P = O & P) = $	\$2.9 \$36 \$27 \$72 \$34 0.00 \$14	90 .53 .60 .61 8.61 0 .82
<u>0\</u>	VERHEAD AND PROFIT: Liability insurance: 2 Performance bond: 1 Job superintendent: 0 Profit: 1 GAL - ENGINEERING - PROJJ Financial warranty processing	.05 0.50 0.00 ECT MANAGEMENT: g (legal/related costs): utract/bid preparation:	0.00		Total = Total = Total = 0 & P = 0 & P = Total = Tota	\$2.9 \$36 \$27 \$72 \$34 0.00	90 .53 .60 .61 8.61 0 .82
<u>0\</u>	VERHEAD AND PROFIT: Liability insurance: 2 Performance bond: 1 Job superintendent: 0 Profit: 1 GAL - ENGINEERING - PROJJ Financial warranty processing Engineering work and/or con	.05 0.50 0.00 ECT MANAGEMENT: g (legal/related costs): utract/bid preparation:	0.00 4.25		Total = Total = Total = 0 & P = 0 & P = Total = Tota	\$2.9 \$36 \$27 \$72 \$34 0.00 \$14	90 53 60 61 8.61 0 82 43
01	VERHEAD AND PROFIT: Liability insurance: 2 Performance bond: 1 Job superintendent: 0 Profit: 1 GAL - ENGINEERING - PROJJ Financial warranty processing Engineering work and/or con	.05 0.50 0.00 ECT MANAGEMENT g (legal/related costs): ntract/bid preparation: nd/or administration:	0.00 4.25 5.00	(direct + - -	Total = $Total =$ $Total =$ $O & P =$ $O & P) =$ $Total =$ $Total =$ $Total =$	\$2.9 \$36 \$27 \$34 0.00 \$14 \$17 \$0.0	90 53 60 61 8.61 0 82 43

Task # 000

BOREHOLE SEALING WORK

	•	Seneca II Alluv	ial Pe	ermit Action:				
ite:	Wells				2017 Review	P	Permit/Job#:	X198716820
	<u>PROJEC</u> Task	2 T IDENTIFIC 001	CATION State:	Colorado		Abbreviation:	None	
	#: Date:	5/1/2017 JDM	County:	Routt		Filename:	X168-001	

UNIT COSTS

Borehole Description	Sealing/Item Method	Diameter	Length	Quantity	Unit	Unit Cost	Total Cost
Seal Well GWS-68	Portland cement grout (Bag, material cost only94 lb. bag)	12.00	18.00	7.00	bag	\$10.55	\$73.85
Seal Borehole #2	Portland cement grout (Bag, material cost only94 lb. bag)	10	50	14.00	bag	\$10.55	\$147.70
Borehole Marker	Borehole location/identification marker (EA, material cost only)	NA	NA	2.00	EA	\$3.67	\$7.34
Labor	General laborer - Colorado (total incl. fringes, empl. burden)	NA	NA	2.00	HR	\$23.53	\$47.06

 Job Hours:
 1.00
 Total Cost:
 \$276.00

COST SUMMARY WORK

Task description:		Summary of Remaining Reclamation Tasks					
Site:	Peabody	Yoast/Seneca	Pei	mit Action:	2017 Review	Permit/Joł	o#: X198816822
<u>P</u>	ROJECT] Task #:	DENTIFIC	ATION State:	Colorado		Abbreviation:	None
	Date: User:	5/1/2017 JDM	County:	Routt		Filename:	X168-000
	Age	ncy or organiz	ation name: DR	RMS			

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Seal and Abandon Remaining Water Monitoring Wells	BOREHOLE	1	12.00	\$6,288.05
002	Mobilize/Demobilize for Remaining Reclamation Tasks	MOBILIZE	1	2.85	\$935.00
		<u>SUBTO</u>	TALS:	14.85	\$7,223

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$145.90
Performance bond:	1.05	Total =	\$75.84
Job superintendent:	7.43	Total =	\$542.40
Profit:	10.00	Total =	\$722.30
		TOTAL O & P =	\$1,486.44
		CONTRACT AMOUNT (direct + O & P) = $($	\$8,709.44

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): Engineering work and/or contract/bid preparation: Reclamation management and/or administration:	$ \begin{array}{r} 0.00 \\ 4.25 \\ 5.00 \end{array} $	Total = Total =	0.00 \$370.15 \$435.47
CONTINGENCY:	0.00	Total =	\$0.00
		TOTAL INDIRECT COST =	\$2,292.06

TOTAL BOND AMOUNT (direct + indirect) = _____\$9,515.06

BOREHOLE SEALING WORK

	Task description: Seal and Abandon Remaining Water Monitoring Wells								
Site:	Peabody `	Yoast/Seneca	Pe	rmit Action:	2017 Review	P	ermit/Job#:	X198816822	
	PROJEC	<u>r identific</u>	CATION						
	Task #:	001	State:	Colorado		Abbreviation:	None		
	Date:	5/1/2017	County:	Routt		Filename:	X168-001		
	User:	JDM gency or organi		DRMS					

UNIT COSTS

Borehole Description	Sealing/Item Method	Diameter	Length	Quantity	Unit	Unit Cost	Total Cost
Seal Well 2879B	Portland cement grout (Bag, material cost only94 lb. bag)	5.125	760.40	54.00	bag	\$10.55	\$569.70
Seal Well 2880B	Portland cement grout (Bag, material cost only94 lb. bag)	9.00	780.00	172.00	bag	\$10.55	\$1,814.60
Seal Wells GWS-69, GWS-70, and GWS-71	Portland cement grout (Bag, material cost only94 lb. bag)	12.00	51.75	20.00	bag	\$10.55	\$211.00
Borehole Markers	Borehole location/identification marker (EA, material cost only)	NA	NA	5.00	EA	\$3.67	\$18.35
Drill Rig and Labor	SCHRAMM T450WS	NA	NA	12.00	EA	\$262.19	\$3,146.28
Water Truck	Water Tanker, 2,500 Gal.	NA	NA	12.00	EA	\$44.01	\$528.12

Job Hours: 12.00

Total Cost: \$6,288.00

Task # 000

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EQUIPMENT MOBILIZATION/DEMOBILIZATION

Peabody Yoa	st/Seneca	Permi	t Action:2017	7 Review	P	ermit/Job#: X1	98816822
ROJECT IDE	ENTIFICATI	ON					
Task #: 00	12	State: C	olorado		Abbrey	viation: None	
	1/2017		outt			ename: X168-	002
	0M						
Agency	or organization	n name: DRM	5				
OUIPMENT	TRANSPOR	T RIG COST					
•••••					Shift bas	is: 1 per day	17
					Cost Data Sour		
Truc	k Tractor Desc	ription: GENI	ERIC ON-HIGH			R, 6X4, DIESEL	POWERED,
T		:			(2ND HALF, 2		
Tru	ck Trailer Desc	cription: C				OP DECK EQUI	PMENT
				IKAILEK	(25T, 50T, AN	D 1001)	
ost Breakdown:							
Available Rig (0-25 Tons	26-50 Tons	51-	- Tons		
	p Cost/Hour:	\$16.63	\$18.37		22.33		
	g Cost/Hour:	\$44.38	\$46.13		50.07		
	or Cost/Hour:	\$27.66	\$27.66		27.66		
	er Cost/Hour:	\$0.00	\$25.39		25.39		
Total Un	it Cost/Hour:	\$88.67	\$117.55	\$1	25.45		
ON ROADAI	BLE EQUIPN	MENT:					
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		
SCHRAMM F450WS	0.00	\$83.42	\$88.67	1	\$172.09	\$88.67	\$250.00
				Subtotals:	\$172.09	\$88.67	\$250.00
OADABLE E	OUIDMENT	٦.					
				T	U 177	Dotum Tri	
Machine Descri	ption	Total Cost/hr, unit	Fleet Si	ze	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet	
Water Tanker, 2,5	500 Gal.	\$44.01	1		\$44.01	\$44.01	-
		ψ	-	Subtotals:	\$44.01	\$44.01	
				SUDIORAIS	344.01	544.01	1

Nearest Major City or Town within project area region: Total one-way travel distance: Average Travel Speed:	HAYDEN 25.00 35.00	miles mph
Total Non-Roadable Mob/Demob Cost * '* two round trips with haul rig:	\$872.51	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$62.87	

Transportation Cycle Time:

	Non- Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.71	0.71
Return Time (Hours):	0.71	0.71
Loading Time (Hours):	0.00	NA
Unloading Time (Hours):	0.00	NA
Subtotals:	1.43	1.43

JOB TIME AND COST

Total job time:	2.86	Hours
Total job cost:	\$935	

COST SUMMARY WORK

	Peabody Monitor	Seneca II-W Wells	/Yoast Pe	ermit Action:	2017 Review	Permit/Job	o#: X199016823
PD	OIECT	IDENTIFI	CATION				
	OULCI						
	Task #:	000	State:	Colorado		Abbreviation:	None
				Colorado Routt		Abbreviation: Filename:	None X168-000

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Seal and Abandon Remaining Water Monitoring Wells	BOREHOLE	1	22.00	\$11,090.73
002	Regrade Drill Pads	DOZER	1	22.94	\$2,988.00
003	Regrade Access Road	DOZER	1	31.55	\$4,109.00
004	Replace Topsoil on Drillpads and Access Road	DOZER	1	21.70	\$2,826.00
005	Reseed Drill Pads and Access Road	REVEGE	1	1.20	\$1,455.00
006	Mobilize/Demobilize Equipment	MOBILIZE	1	1.14	\$1,333.00
SUBTOTALS: 100.53					\$23,802

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$480.80
Performance bond:	1.05	Total =	\$249.92
Job superintendent:	50.27	Total =	\$3,671.86
Profit:	10.00	Total =	\$2,380.20
		TOTAL O & P =	\$6,782.78
		CONTRACT AMOUNT (direct + $O \& P$) =	\$30,584.78

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): Engineering work and/or contract/bid preparation: Reclamation management and/or administration:	0.00 4.25 5.00	Total = Total =	0.00 \$1,299.85 \$1,529.24
CONTINGENCY:	0.00	Total =	\$0.00
	TOTAL I	NDIRECT COST =	\$9,611.87
TOTAL BO	\$33,413.87		

BOREHOLE SEALING WORK

e:	Peabody Monitor	Seneca II-W/Yo Wells	past Pe	ermit Action:	2017 Review	P	ermit/Job#:	X199016823
	<u>PROJEC</u>	<u>T IDENTIFIC</u>	CATION					
	Task #:	001	State:	Colorado		Abbreviation:	None	
	Date: User:	5/2/2017 JDM	County:	Routt		Filename:	X168-001	

UNIT COSTS

Borehole Description	Sealing/Item Method	Diameter	Length	Quantity	Unit	Unit Cost	Total Cost
Seal Wells A1 through A9	Portland cement grout (Bag, material cost only94 lb. bag)	10.50	230.50	69.00	bag	\$10.55	\$727.95
Seal (11) 6.75" Wells	Portland cement grout (Bag, material cost only94 lb. bag)	6.75	2713.50	337.00	bag	\$10.55	\$3,555.35
Borehole Markers	Borehole location/identification marker (EA, material cost only)	NA	NA	20.00	EA	\$3.67	\$73.40
Drill Rig and Labor	SCHRAMM T450BH	NA	NA	22.00	EA	\$272.57	\$5,996.54
Water Truck and Labor	Water Tanker, 2,500 Gal.	NA	NA	22.00	EA	\$29.58	\$650.76
Cut Casings A1 through A9	Exposed casing removal - Calculate Circumference in Linear Feet	10.50	27	27.00	LF	\$1.77	\$47.79
Cut Casings 6.75" Wells	Exposed casing removal - Calculate Circumference in Linear Feet	6.75	22	22.00	LF	\$1.77	\$38.94

Job Hours: 22.00

Total Cost: \$11,091.00

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BULLDOZER WORK

Task description:	egrade Drill Pads			
Peabody Seneca II-W/Yoa ite: Monitor Wells	Ast Permit Action:	2017 Review	Permit/Jo	b#: <u>X199016823</u>
PROJECT IDENTIFICAT	TION			
Task #: 002	State: Colorado		Abbreviation:	None
Date: $5/2/2017$	County: Routt		Filename:	X168-002
User: JDM				
Agency or organization	on name: DRMS			
HOURLY EQUIPMENT	<u>COST</u>			
Basic Machine: Cat D67	T XL			
Horsepower: 185				
Blade Type: Semi-U	niversal	_		
Attachment: NA Shift Basis: 1 per da	*7			
Data Source: (CRG)	У			
Cost Breakdown:				
Ownership Cost/Hour:	\$46.87	<u>Utilization %</u> NA		
Operating Cost/Hour:	\$40.87	100		
Ripper own.	-			
Cost/Hour:	\$0.00	NA		
Ripper op. Cost/Hour:	\$0.00	0		
Operator Cost/Hour:	\$41.85	NA		
Total unit Cost/Hour: \$1	30.24			
	30.24			
MATERIAL QUANTITIE	<u>.</u>			
Initial Volume: 3,704				
Swell factor: 1.125				
Loose volume: 4,167 LC	Y			
Source of estimated volume:	Division of Reclamat	ion, Mining & Safety		
Source of estimated swell	Cat Handbook			
factor:				
HOURLY PRODUCTION	_			
Average push distance:	50 feet			
Unadjusted hourly	444.6 LCY/hr			
production:				
Materials consistency descrip	tion: Compacted fill or e	mbankment 0.9		
Average push 0.9	%			
gradient: Average site altitude: 7,0	000 feet			
Material weight: 2,6	550 lbs/LCY			

b Condition Correction Factor		Source
Operator Skill:	0.900	(AB.AVG.)
Material consistency:	0.900	(CAT HB))
Dozing method:	1.000	(GEN.)
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:	0.868	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.4085	

Weight description: Decomposed rock - 25% Rock, 75% Earth

production: Adjusted fleet production: 181.62 LCY/hr 181.62 LCY/hr

JOB TIME AND COST

Fleet size:	1 Dozer(s)
Unit cost:	\$0.717/LCY
Fotal job time:	22.94 Hours

Total job time:22.94 HoursTotal job cost:\$2,988

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BULLDOZER WORK

Task description:	Regrade Access I	Road			
Peabody Seneca II-W Site: Monitor Wells	/Yoast Per	mit Action:	2017 Review	Permit/Jol	p#: <u>X199016823</u>
PROJECT IDENTIFI	CATION				
Task #: 003	State:	Colorado		Abbreviation:	None
Date: $5/2/2017$	County:	Routt		Filename:	X168-003
User: JDM					
Agency or organ	ization name: DR	MS			
HOURLY EQUIPMEN	<u>NT COST</u>				
	D6T XL		_		
Horsepower: 185			_		
Blade Type: Sen Attachment: NA	ni-Universal		_		
	er day		_		
Data Source: (CR	,		_		
Cost Breakdown:	,		_		
Cost Dicardowii.			Utilization %		
Ownership Cost/Hour:		\$46.87	NA		
Operating Cost/Hour:		\$41.52	100		
Ripper own.		\$0.00	NA		
Cost/Hour: Ripper op. Cost/Hour:		\$0.00	0		
Operator Cost/Hour:		\$41.85	NA		
-		ψ11.05	INA		
Total unit Cost/Hour:	\$130.24				
Total Fleet Cost/Hour:	\$130.24				
MATERIAL QUANTI	TIES				
Initial Volume: 1,76					
Swell factor: 1.12		_			
	0 LCY	_			
Source of estimated volu	mai Division a	– f Daalamati	on, Mining & Safety		
Source of estimated swel			on, whiling & Salety		
factor:		, oon			
HOURLY PRODUCT	ION				
Average push distance:	200 feet				
Unadjusted hourly	153.6 LCY/	hr			
production:					
Materials consistency de	scription: <u>Compac</u>	ted fill or er	nbankment 0.9		
Average push	0 %				
gradient:	0 /0				
Average site altitude:	7,000 feet				
Motorial waisht	2 650 lbc/I CV				
Material weight:	2,650 lbs/LCY				

Weight description:	Decomposed rock - 25% Rock,	75% Earth
Job Condition Correction Fac	tor	Source
Operator Skil	11: 0.900	(AB.AVG.)
Material consistence	y: 0.900	(CAT HB))
Dozing metho	d: 1.000	(GEN.)
Visibilit	y:1.000	(AVG.)
Job efficienc	y: 0.830	(1 SHIFT/DAY)
Spoil pil	e: 0.700	(FND-MF)
Push gradien	nt: 1.000	(CAT HB)
Altitud	e: 1.000	(CAT HB)
Material Weigh	nt: 0.868	(CAT HB)
Blade typ	e: 1.000	(PAT)
Net correction	n: 0.4085	
Adjusted unit production:	62.75 LCY/hr	
Adjusted fleet	62-75 I CY/hr	

62.75 LCY/hr

JOB TIME AND COST

production:

	1 Dozer(s) \$2.075/LCY
Fotal job time:	31 55 Hours

Total job time:**31.55** HoursTotal job cost:**\$4,109**

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BULLDOZER WORK

Task description:	Replace Topso	il on Drillpad	s and Access Road		
Peabody Seneca II-V e: Monitor Wells	W/Yoast P	ermit Action:	2017 Review	Permit/Jol	b#: <u>X199016823</u>
PROJECT IDENTIF	ICATION				
Task #: 004	State:	Colorado		Abbreviation:	None
Date: $5/2/2017$	County:			Filename:	X168-004
User: JDM	County.	Routt		T fieldanie.	
Agency or orga	nization name. I	ORMS			
HOURLY EQUIPME					
	at D6T XL		_		
Horsepower: 18					
	emi-Universal		_		
Attachment: NA			_		
	per day		_		
Data Source: (C	CRG)		_		
Cost Breakdown:					
			Utilization %		
Ownership Cost/Hour:		\$46.87	NA		
Operating Cost/Hour:		\$41.52	100		
Ripper own.		\$0.00	NA		
Cost/Hour:					
Ripper op. Cost/Hour:		\$0.00	0		
Operator Cost/Hour:		\$41.85	NA		
Total unit Cost/Hour:	\$130.24				
Total Fleet Cost/Hour:	\$130.24				
MATERIAL QUANT	TTIFS				
Initial Volume: $2,7$					
Swell factor: 1.0					
Loose volume: 2,7	32 LCY				
Source of estimated vol	ume: Divisio	n of Reclamati	on, Mining & Safety		
Source of estimated swe			- •		
factor:					
HOURLY PRODUCT	ΓΙΟΝ				
Average push distance:		X7 /1			
Unadjusted hourly	303.3 LC	r/nr			
production:					
Materials consistency d	escription: <u>Partly</u>	consolidated	stockpile 1.1		
Average push	0 %				
gradient:	0 /0				
Average site altitude:	7,000 feet				
i iverage site annual.	7,000 1001				
	2,550 lbs/LCY				

i.)
3)
AY)
F)
3)
3)
3)

JOB TIME AND COST

Fleet size:	1 Dozer(s)
Unit cost:	\$1.034/LCY
Total job time:	21.70 Hours
Total job cost:	\$2,826

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REVEGETATION WORK

	eabody \$ Ionitor \	Seneca II-W/Y Vells	Zoast Pe	ermit Action:	2017 Review	Permit/Jol	b#: <u>X199016823</u>
DDO	TECT	DENTIFICA	TION				
<u>PRO</u>	JECI		AHON				
	GECT Task #:	005	State:	Colorado		Abbreviation:	None
				Colorado Routt		Abbreviation: Filename:	None X168-005

FERTILIZING

Materials

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

Application

Description		Cost /Acre
		\$
	Total Fartilizer Application Cost/Acre	\$0.00
	Total Fertilizer Application Cost/Acre	\$0.00

TILLING

Description	Cost /Acre
	\$
Total Tilling Cost/Acre	\$0.00

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Russian Wildrye - VNS	8.00	32.14	\$46.24
Smooth Brome - Manchar	16.00	53.26	\$68.00
Slender Wheatgrass - Native	12.00	43.80	\$33.84
Western Wheatgrass - Native	16.00	40.40	\$112.00
Totals Seed Mix	52.00	169.61	\$260.08

	Cost /Acre
	\$267.22
Total Seed Application Cost/Acre	\$267.22
	Total Seed Application Cost/Acre

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				

JOB TIME AND COST

No. of Acres:	2.3	Cost /Acre:	\$527.30
Estimated Failure Rate:	20%	Cost /Acre*:	\$527.30
*Selected Replanting Work Items:	SEEDING		

Initial Job Cost:	\$1,212.79
Reseeding Job Cost:	\$242.56
Total Job Cost:	\$1,455
Job Hours:	1.20

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Monitor Wel	eca II-W/Yoas ls	t Permit	Action:2017	Review	P	Permit/Job#: X	199016823
ROJECT IDE	ENTIFICATI	<u>ON</u>					
Task #: 00)6	State: Co	olorado		Abbre	viation: None	
Date: 5/2	2/2017	County: Ro	outt		Fil	lename: X168-	-006
User: JE	DM						
Agency	or organization	n name: DRMS					
QUIPMENT	TRANSPOR	T RIG COST					
					Shift bas	sis: 1 per da	v
				(Cost Data Sour	A ·	
Tens	Tractor Dece	minitiant CENIE	DIC ON LUCH				DOWEDED
Iruc	ck Tractor Desc	npuon: GENE	KIC UN-HIGH		(2ND HALF, 2	R, 6X4, DIESEL 2006)	L POWEKED,
Tru	ck Trailer Desc	ription: G	ENERIC FOU			OP DECK EQUI	IPMENT
110	ex franci Dese				(25T, 50T, AN		
					- 1 1	,	
Cost Breakdown:							
Available Rig (Capacities	0-25 Tons	26-50 Tons	51-	- Tons		
	p Cost/Hour:	\$16.63	\$18.37		22.33		
Operatin	g Cost/Hour:	\$44.38	\$46.13	.\$4	50.07		
Operato	or Cost/Hour:	\$27.66	\$27.66	\$2	27.66		
Öperato Helpe	or Cost/Hour: er Cost/Hour:		\$27.66 \$25.39	\$2			
Öperato Helpe	or Cost/Hour:	\$27.66		\$2 \$2	27.66		
Öperato Helpe	or Cost/Hour: er Cost/Hour:	\$27.66 \$0.00	\$25.39	\$2 \$2	27.66 25.39		
Operato Helpe Total Un	or Cost/Hour: er Cost/Hour: it Cost/Hour:	\$27.66 \$0.00 \$88.67	\$25.39	\$2 \$2	27.66 25.39		
Öperato Helpe Total Un	or Cost/Hour: er Cost/Hour: it Cost/Hour: BLE EQUIPN	\$27.66 \$0.00 \$88.67 //ENT:	\$25.39 \$117.55	\$2 \$2 \$1	27.66 25.39 25.45	Return Trip	DOT Permi
Operato Helpe Total Un JON ROADAI Machine	or Cost/Hour: er Cost/Hour: it Cost/Hour: BLE EQUIPN Weight/	\$27.66 \$0.00 \$88.67 MENT: Owner ship	\$25.39 \$117.55 Haul Rig	\$2 \$2 \$1 Fleet	27.66 25.39 25.45 Haul Trip	Return Trip Cost/hr/ fleet	DOT Permi Cost/ fleet
Operato Helpe Total Un ION ROADAI Machine	or Cost/Hour: er Cost/Hour: it Cost/Hour: BLE EQUIPN Weight/ Unit	\$27.66 \$0.00 \$88.67 //ENT:	\$25.39 \$117.55 Haul Rig Cost/hr/uni	\$2 \$2 \$1	27.66 25.39 25.45 Haul Trip Cost/hr/		
Operato Helpe Total Un NON ROADAI Machine Description	or Cost/Hour: er Cost/Hour: it Cost/Hour: BLE EQUIPN Weight/ Unit (TONS)	\$27.66 \$0.00 \$88.67 MENT: Owner ship Cost/hr/ unit	\$25.39 \$117.55 Haul Rig Cost/hr/uni t	\$2 \$2 \$1 Fleet	27.66 25.39 25.45 Haul Trip Cost/hr/ fleet	Cost/hr/ fleet	Cost/ fleet
Operato Helpe Total Un JON ROADAI Machine	or Cost/Hour: er Cost/Hour: it Cost/Hour: BLE EQUIPN Weight/ Unit	\$27.66 \$0.00 \$88.67 MENT: Owner ship	\$25.39 \$117.55 Haul Rig Cost/hr/uni	S2 \$2 \$1 Fleet Size	27.66 25.39 25.45 Haul Trip Cost/hr/		
Operato Helpe Total Un NON ROADAI Machine Description Cat D6T LGP	or Cost/Hour: er Cost/Hour: it Cost/Hour: BLE EQUIPN Weight/ Unit (TONS) 26.87	\$27.66 \$0.00 \$88.67 MENT: Owner ship Cost/hr/ unit \$43.25	\$25.39 \$117.55 Haul Rig Cost/hr/uni t \$117.55	Fleet Size	27.66 25.39 25.45 Haul Trip Cost/hr/ fleet \$160.80	Cost/hr/ fleet \$117.55	\$250.00
Operato Helpe Total Un NON ROADAI Machine Description Cat D6T LGP SCHRAMM	or Cost/Hour: er Cost/Hour: it Cost/Hour: BLE EQUIPN Weight/ Unit (TONS) 26.87	\$27.66 \$0.00 \$88.67 MENT: Owner ship Cost/hr/ unit \$43.25	\$25.39 \$117.55 Haul Rig Cost/hr/uni t \$117.55	\$2 \$1 Fleet Size 1	27.66 25.39 25.45 Haul Trip Cost/hr/ fleet \$160.80 \$172.09	Cost/hr/ fleet \$117.55 \$88.67	Cost/ fleet \$250.00 \$250.00
Operato Helpe Total Un NON ROADAI Machine Description Cat D6T LGP SCHRAMM	or Cost/Hour: er Cost/Hour: it Cost/Hour: BLE EQUIPN Weight/ Unit (TONS) 26.87 0.00	\$27.66 \$0.00 \$88.67 MENT: Owner ship Cost/hr/ unit \$43.25 \$83.42	\$25.39 \$117.55 Haul Rig Cost/hr/uni t \$117.55	Fleet Size	27.66 25.39 25.45 Haul Trip Cost/hr/ fleet \$160.80 \$172.09	Cost/hr/ fleet \$117.55	Cost/ fleet \$250.00
Operato Helpe Total Un NON ROADAI Machine Description Cat D6T LGP SCHRAMM T450WS	or Cost/Hour: er Cost/Hour: it Cost/Hour: BLE EQUIPM Weight/ Unit (TONS) 26.87 0.00 CQUIPMENT	\$27.66 \$0.00 \$88.67 MENT: Owner ship Cost/hr/ unit \$43.25 \$83.42	\$25.39 \$117.55 Haul Rig Cost/hr/uni t \$117.55 \$88.67	\$2 \$1 Fleet Size 1 1 Subtotals:	27.66 25.39 25.45 Haul Trip Cost/hr/ fleet \$160.80 \$172.09 \$332.89	Cost/hr/ fleet \$117.55 \$88.67 \$206.22	Cost/ fleet \$250.00 \$250.00
Operato Helpe Total Un Machine Description Cat D6T LGP SCHRAMM T450WS	or Cost/Hour: er Cost/Hour: it Cost/Hour: BLE EQUIPM Weight/ Unit (TONS) 26.87 0.00 CQUIPMENT	\$27.66 \$0.00 \$88.67 MENT: Owner ship Cost/hr/ unit \$43.25 \$83.42 : Total Cost/hr/	\$25.39 \$117.55 Haul Rig Cost/hr/uni t \$117.55 \$88.67	\$2 \$1 Fleet Size 1 1 Subtotals:	27.66 25.39 25.45 Haul Trip Cost/hr/ fleet \$160.80 \$172.09 \$332.89 Haul Trip	Cost/hr/ fleet \$117.55 \$88.67 \$206.22 Return Trip	Cost/ fleet \$250.00 \$250.00 \$500.00
Operato Helpe Total Un NON ROADAI Machine Description Cat D6T LGP SCHRAMM T450WS	or Cost/Hour: er Cost/Hour: it Cost/Hour: BLE EQUIPN Weight/ Unit (TONS) 26.87 0.00 CQUIPMENT ption	\$27.66 \$0.00 \$88.67 MENT: Owner ship Cost/hr/ unit \$43.25 \$83.42	\$25.39 \$117.55 Haul Rig Cost/hr/uni t \$117.55 \$88.67	\$2 \$1 Fleet Size 1 1 Subtotals:	27.66 25.39 25.45 Haul Trip Cost/hr/ fleet \$160.80 \$172.09 \$332.89	Cost/hr/ fleet \$117.55 \$88.67 \$206.22	Cost/ fleet \$250.00 \$250.00 \$500.00

Nearest Major City or Town within project area region: Total one-way travel distance:	HAYDEN 10.00	miles
Average Travel Speed:	35.00	mph
Total Non-Roadable Mob/Demob Cost *	\$1,308.06 \$25.15	

Transportation Cycle Time:

	Non- Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.29	0.29
Return Time (Hours):	0.29	0.29
Loading Time (Hours):	0.00	NA
Unloading Time (Hours):	0.00	NA
Subtotals:	0.57	0.57

JOB TIME AND COST

Total job time:	1.14	Hours
Total job cost:	\$1,333	_

COST SUMMARY WORK

: 2017 Review 2017 Review Form Used BOREHOLE MOBILIZE SUBTO	Fleet Size 1	Abbreviation: Filename: Task Hours 8.00	#: <u>X19931682</u> None X168-000 Cost \$3,548.71
Form Used BOREHOLE MOBILIZE	Fleet Size 1	Filename: Task Hours 8.00	X168-000
Form Used BOREHOLE MOBILIZE	Fleet Size 1	Filename: Task Hours 8.00	X168-000
Used BOREHOLE MOBILIZE	Size 1	Task Hours 8.00	Cost
Used BOREHOLE MOBILIZE	Size 1	Hours 8.00	
Used BOREHOLE MOBILIZE	Size 1	Hours 8.00	
Used BOREHOLE MOBILIZE	Size 1	Hours 8.00	
MOBILIZE			\$3,548.71
	1	1.1.4	
- I	1	1.14	\$674.00
			5.30 4.34
			33.84
			22.30
RACT AMOUNT			85.78 ,108.78
			, · · -
		Total = 0.0	00
4.25	_		17.12
5.00	_	\$2	55.44
0.00		Total = \$0	00
0.00		<u></u>	.00
		$\frac{0.00}{4.25}$	$Total = \frac{\$4}{Total} = \frac{\$4}{\$3}$ $Total = \frac{\$4}{Total} = \frac{\$4}{\$5}$ $TOTAL O \& P = \frac{\$8}{\$5}$ $TOTAL O \& P = \frac{\$8}{\$5}$ $TOTAL O \& P = \frac{\$8}{\$5}$ $Total = \frac{\$5}{\$5}$ $T:$ $\frac{0.00}{4.25} \qquad Total = \frac{0.0}{\$2}$ $Total = \frac{0.0}{\$2}$

Task # 000

BOREHOLE SEALING WORK

ite:	Peabody Project	1993 Dry Creek	Pe	ermit Action:	2017 Review	I	Permit/Job#:	X199316827
	PROJEC	T IDENTIFIC	ATION					
	Task #:	001	State:	Colorado		Abbreviation:	None	

UNIT COSTS

Borehole Description	Sealing/Item Method	Diameter	Length	Quantity	Unit	Unit Cost	Total Cost
Seal Well 3314C	Portland cement grout (Bag, material cost only94 lb. bag)	6.00	498.00	49.00	bag	\$10.55	\$516.95
Seal Well 3317C	Portland cement grout (Bag, material cost only94 lb. bag)	5.625	480.00	41.00	bag	\$10.55	\$432.55
Borehole Marker	Borehole location/identification marker (EA, material cost only)	NA	NA	2.00	EA	\$3.67	\$7.34
Drill Rig and Labor	SCHRAMM T450BH	NA	NA	8.00	EA	\$272.57	\$2,180.56
Water Truck and Labor	Water Tanker, 2,500 Gal.	NA	NA	8.00	EA	\$50.75	\$406.00
Cut Casings	Exposed casing removal - Calculate Circumference in Linear Feet	6.00	3.0	3.00	LF	\$1.77	\$5.31

Job Hours: 8.00

Total Cost: \$3,549.00

Task # 000

EQUIPMENT MOBILIZATION/DEMOBILIZATION

_	Peabody 1993 D Project	Ory Creek	Permit	Action:2017	Review]	Permit/Job#: X	199316827
PR	ROJECT IDEN	TIFICATI	<u>ON</u>					
	Task #: 002		State: Co	olorado		Abbre	eviation: None	
	Date: 5/2/2 User: JDM		County: Ro	outt		Fi	ilename: X168	-002
	Agency or	organization	n name: DRMS					
(QUIPMENT TH	RANSPOR'	<u>T RIG COST</u>					
						Shift ba		
					C	Cost Data Sour	rce: CRG Da	ta
	Truck 7	Fractor Desc	ription: GENE	RIC ON-HIGH		UCK TRACTO	OR, 6X4, DIESEL	POWERED,
					400 HP	(2ND HALF.	2006)	
	Truck '	Trailer Desc	ription: G	ENERIC FOLD		(2ND HALF, SENECK, DF		IPMENT
	Truck '	Trailer Desc	ription: G		ING GOO		ROP DECK EQU	IPMENT
0	Truck ⁷ st Breakdown:	Trailer Desc	ription: G		ING GOO	SENECK, DF	ROP DECK EQU	IPMENT
			ription: G		ING GOO	SENECK, DF	ROP DECK EQU	IPMENT
	<u>st Breakdown:</u> Available Rig Caj Ownership C	pacities Cost/Hour:	0-25 Tons \$16.63	26-50 Tons \$18.37	PING GOO ΓRAILER 51+ \$2	SENECK, DF (25T, 50T, AN Tons (2.33	ROP DECK EQU	IPMENT
	st Breakdown: Vailable Rig Cap Ownership C Operating C	Dacities Cost/Hour: Cost/Hour:	0-25 Tons \$16.63 \$44.38	26-50 Tons \$18.37 \$46.13	DING GOO <u>TRAILER</u> 51+ \$2 \$5	SENECK, DF (25T, 50T, AN Tons (2.33 (0.07	ROP DECK EQU	IPMENT
	st Breakdown: Vailable Rig Cap Ownership C Operating C Operator C	Dacities Cost/Hour: Cost/Hour: Cost/Hour:	0-25 Tons \$16.63 \$44.38 \$27.66	26-50 Tons \$18.37 \$46.13 \$27.66	PING GOO <u>FRAILER</u> 51+ \$2 \$5 \$2	SENECK, DF (25T, 50T, AN Tons (2.33 (0.07 (27.66)	ROP DECK EQU	IPMENT
	st Breakdown: vailable Rig Cag Ownership C Operating C Operator C Helper C	Dacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00	26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39	PING GOO TRAILER (51+ \$2 \$5 \$2 \$2 \$2 \$2	SENECK, DF (25T, 50T, AN 22.33 00.07 27.66 25.39	ROP DECK EQU	IPMENT
	st Breakdown: Vailable Rig Cap Ownership C Operating C Operator C	Dacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	0-25 Tons \$16.63 \$44.38 \$27.66	26-50 Tons \$18.37 \$46.13 \$27.66	PING GOO TRAILER (51+ \$2 \$5 \$2 \$2 \$2 \$2	SENECK, DF (25T, 50T, AN Tons (2.33 (0.07 (27.66)	ROP DECK EQU	IPMENT
A	st Breakdown: vailable Rig Cag Ownership C Operating C Operator C Helper C	Dacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00 \$88.67	26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39	PING GOO TRAILER (51+ \$2 \$5 \$2 \$2 \$2 \$2	SENECK, DF (25T, 50T, AN 22.33 00.07 27.66 25.39	ROP DECK EQU	IPMENT
	st Breakdown: Vailable Rig Cap Ownership (Operating (Operator (Helper (Total Unit (Dacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: E EQUIPN	0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00 \$88.67 MENT:	26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39 \$117.55	PING GOO TRAILER (51+ \$2 \$5 \$2 \$2 \$2 \$2	SENECK, DF (25T, 50T, AN 22.33 50.07 27.66 25.39 25.45	ROP DECK EQU	DOT Permit
	st Breakdown: Vailable Rig Cap Ownership (Operating (Operator (Helper (Total Unit (ON ROADABL	Dacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00 \$88.67	26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39	PING GOO FRAILER (51+ \$2 \$5 \$2 \$2 \$1 \$1	SENECK, DF (25T, 50T, AN 22.33 00.07 27.66 25.39	ROP DECK EQU	
	st Breakdown: Vailable Rig Cap Ownership C Operating C Operator C Helper C Total Unit C ON ROADABL Machine	Dacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: E EQUIPN Weight/	0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00 \$88.67 MENT: Owner ship	26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39 \$117.55 Haul Rig	Fleet	SENECK, DF (25T, 50T, AN 22.33 50.07 27.66 25.39 25.45 Haul Trip	ROP DECK EQU	DOT Permit
	st Breakdown: Vailable Rig Cap Ownership C Operating C Operator C Helper C Total Unit C ON ROADABL Machine	Dacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: E EQUIPN Weight/ Unit	0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00 \$88.67 MENT: Owner ship	26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39 \$117.55 Haul Rig Cost/hr/uni	Fleet	SENECK, DF (25T, 50T, AN 2.33 30.07 27.66 25.39 25.45 Haul Trip Cost/hr/	ROP DECK EQU	DOT Permit

Return Trip Cost/hr/ fleet Total Cost/hr/ Fleet Size Haul Trip Machine Description Cost/hr/ fleet unit Water Tanker, 2,500 Gal. \$44.01 1 \$44.01 \$44.01 \$44.01

Subtotals: \$44.01

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region: Total one-way travel distance: Average Travel Speed:	HAYDEN 10.00 35.00	miles mph
Total Non-Roadable Mob/Demob Cost * '* two round trips with haul rig:	\$649.01	
Total Roadable Mob/Demob Cost **	\$25.15	

** one round trip, no haul rig:

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.29	0.29
Return Time (Hours):	0.29	0.29
Loading Time (Hours):	0.00	NA
Unloading Time (Hours):	0.00	NA
Subtotals:	0.57	0.57

JOB TIME AND COST

Total job time: **1.14** Hours

Total job cost: ______\$674_____

COST SUMMARY WORK

Task description: Summary of Remaining Reclamation Tasks											
Site:	BTU Empire 1994-96 D	rilling	Permit Action:	2017 Review		Permit/J	ob#:	X199421400			
<u>P</u>]	ROJECT IDENTIFICA	ATION									
	Task #: 000 Date: 5/2/2017 User: JDM	Sta	ate: Colorado hty: Moffat			Abbreviation: Filename		one 214-000			
	Agency or organiz	ation name:	DRMS								
TASK LIST (DIRECT COSTS)											
Task	Description			Form Used	Fleet Size	Task Hours		Cost			
001	Seal and Abandon Ren	U	r Wells	BOREHOLE	1	30.00		\$15,419.36			
002	Mobilize/Demobilize I	Equipment		MOBILIZE	1	3.42	9	\$1,022.00			
SUBTOTALS: 33								\$16,441			
	I <mark>DIRECT COSTS</mark> VERHEAD AND PROFIT	<u>.</u>									
Liability insurance: 2.02				Total =\$332.11							
	Performance bond: 1.05				$\begin{array}{r} \text{Total} = & \frac{\$172.63}{\$1,220.67} \end{array}$						
Job superintendent: 16.71 Profit: 10.00					Total = Total =	\$1,22 \$1,64					
P10111: 10.00					ΤΟΤΑΙ	LO&P =	\$3,36				
CONTRACT AMOUNT (direct + O & P) =							\$19,810.51				
LI	EGAL - ENGINEERING -	PROJECT N	IANAGEMENT:								
Financial warranty processing (legal/related costs):			0.00 Total =			0.00					
Engineering work and/or contract/bid preparation:			4.25 Total = T			\$841.95					
Reclamation management and/or administration:			5.00 \$990.53			53					
	CONTINGENCY:			0.00 Total =			\$0.00				
TOTAL INDIRECT COST =							\$5,201.98				
			TOTAL BO	ND AMOUNT (d	irect + in	ndirect) =	\$21,6	42.98			

BOREHOLE SEALING WORK

	Task desc	ription:	Seal and Aba	eal and Abandon Remaining Water Wells						
Site:	BTU Em	pire 1994-96 Dril	lling P	ermit Action:	2017 Review	P	ermit/Job#:	X199421400		
	PROJEC	T IDENTIFICA	ATION							
	Task #:	001	State:	Colorado		Abbreviation:	None			

Filename:

X214-001

Agency or organization name: DRMS

County: Moffat

UNIT COSTS

-Date:

User: JDM

5/2/2017

Borehole Description	Sealing/Item Method	Diameter	Length	Quantity	Unit	Unit Cost	Total Cost
Seal Wells 94001, 95001, and 95012	Portland cement grout (Bag, material cost only94 lb. bag)	6.25	5525.00	589.00	bag	\$10.55	\$6,213.95
Borehole Marker	Borehole location/identification marker (EA, material cost only)	NA	NA	3.00	EA	\$3.67	\$11.01
Cut Casing	Exposed casing removal - Calculate Circumference in Linear Feet	6.25	4.75	4.75	LF	\$1.77	\$8.41
Drill Rig and Labor	SCHRAMM T450WS	NA	NA	30.00	EA	\$262.19	\$7,865.70
Water Tanker	Water Tanker, 2,500 Gal.	NA	NA	30.00	EA	\$44.01	\$1,320.30

Job Hours: 30.00

Total Cost: \$15,419.00

Page 3 of 4

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description:	Mol	oilize/Demobilize	Equipment				
e: BTU Empire	1994-96 Drilliı	ng Permit	Action: _ 2017	Review	F	Permit/Job#: X	199421400
PROJECT IDE	NTIFICATI	<u>ON</u>					
Task #: 002	2	State: Co	olorado		Abbre	viation: None	
	/2017		offat			lename: X214	-002
User: JDI	М						
Agency	or organization	name: DRMS					
EQUIPMENT 1	RANSPORT	FRIG COST					
					Shift bas	sis: 1 per da	V
				(Cost Data Sour	1	
Truck	Tractor Descr	iption: GENE	RIC ON-HIGH		JCK TRACTO (2ND HALF, 1	0R, 6X4, DIESEI 2006)	L POWERED,
Truc	k Trailer Descr	iption: Gl	ENERIC FOLD			OP DECK EQU	IPMENT
1100		-prioni O			(25T, 50T, AN		
					(-))		
Cost Breakdown:							
Available Rig C	apacities	0-25 Tons	26-50 Tons	51-	+ Tons		
	Cost/Hour:	\$16.63	\$18.37	\$2	22.33		
	cost/Hour:	\$44.38	\$46.13		50.07		
		\$27.66			27.66		
	Cost/Hour:	\$0.00	\$25.39		25.39		
Total Unit	t Cost/Hour:	\$88.67	\$117.55	\$1	25.45		
NON ROADAB	LE EQUIPM	IENT:					
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
I. I.	(TONS)		t		fleet		
SCHRAMM T450WS	0.00	\$83.42	\$88.67	1	\$172.09	\$88.67	\$250.00
				Subtotals:	\$172.09	\$88.67	\$250.00
				Subtotals:	\$172.09	\$00.0 <i>1</i>	\$250.00
ROADABLE E	QUIPMENT	<u>.</u>					
Machine Descrip	tion	Total Cost/hr/	Fleet Siz	e	Haul Trip	Return Trip	
Machine Desemp		unit	1 1000 512		Cost/hr/ fleet	Cost/hr/ fleet	t
Water Tanker, 2,50	00 Gal.	\$44.01	1		\$44.01	\$44.01	
				Subtotals:	\$44.01	\$44.01	
EQUIPMENT H	HAUL DISTA	NCE and Tim		Jubioluis.	ψττιυι	ψτιυι	
Ν	learest Major C	City or Town with	in project area 1	region:	HAYD	EN	
		Total on	e-way travel dis	stance:	30.00		iles
		A	Average Travel	Speed:	35.00	0 mj	ph
	Т	otal Non-Roadab	le Mob/Demob	Cost *	ውር ለግ (7 2	
			and trips with ha		\$947.0	JZ	
			e Mob/Demob C		\$75.4	5	
		** one r	ound trip, no ha	aul rig:	φ/3.4		

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.86	0.86
Return Time (Hours):	0.86	0.86
Loading Time (Hours):	0.00	NA
Unloading Time (Hours):	0.00	NA
Subtotals:	1.71	1.71

JOB TIME AND COST

Total job time: **3.43** Hours

Total job cost: \$1,022

Cottonwood LandPermit Action:Exploration	2017 Review		Permit	/Job#	: <u>X199621900</u>
ROJECT IDENTIFICATION					
Task #: 000 State: Colorado					None
			Filenam	e:	X219-000
ASK LIST (DIRECT COSTS)					
	Form	Fleet	Task		Cast
Seal and Abandon Remaining Monitoring Wells					Cost \$22,945.93
	MOBILIZE	1	1.14		\$674.00
	<u>SUBTO</u>	TALS:	71	.14	\$23,620
DIRECT COSTS					
VERHEAD AND PROFIT:					
Liability insurance: 2.02			Total =	\$47	7.12
Performance bond: 1.05			Total =		8.01
					598.39
Profit: 10.00				-	362.00
					685.52
CONT	RACT AMOUNT	(direct +	O & P) =	\$29	9,305.52
GAL - ENGINEERING - PROJECT MANAGEMENT	:				
Financial warranty processing (legal/related costs):	0.00		Total =	0.0	0
Engineering work and/or contract/bid preparation:	4.25	_	Total =	\$1,	245.48
Reclamation management and/or administration:	5.00	_		\$1,4	465.28
CONTINGENCY:	0.00		Total =	\$0.	00
	TOTAL IN	NDIRECT	COST =	\$8,	396.28
TOTAL BO	ND AMOUNT (d	irect + ir	direct) =	\$32	2,016.28
	Exploration ROJECT IDENTIFICATION Task #: 000 State: Colorado Date: 5/2/2017 County: Routt User: JDM Agency or organization name: DRMS Agency or organization name: DRMS Agency or organization name: DRMS Ask LIST (DIRECT COSTS) Mobilize/Demobilize Equipment Mobilize/Demobilize Equipment Mobilize/Demobilize Equipment SURECT COSTS VERHEAD AND PROFIT: Liability insurance: 2.02 Performance bond: 1.05 Job superintendent: 35.57 Profit: 10.00 CONT EGAL - ENGINEERING - PROJECT MANAGEMENT Financial warranty processing (legal/related costs): Engineering work and/or contract/bid preparation: Reclamation management and/or administration: CONTINGENCY:	Exploration 2017 Review ROJECT IDENTIFICATION Task #: 00 Date: 5/2/2017 County: Routt User: JDM Agency or organization name: DRMS SEX LIST (DIRECT COSTS) BOREHOLE Mobilize/Demobilize Equipment MOBILIZE SDIRECT COSTS SuBTO VERHEAD AND PROFIT: Liability insurance: 2.02 Performance bond: 1.05 Job superintendent: 35.57 Profit: 10.00 CONTRACT AMOUNT EGAL - ENGINEERING - PROJECT MANAGEMENT: Financial warranty processing (legal/relate	Exploration 2017 Review ROJECT IDENTIFICATION Task #: 00 Date: 5/2/2017 County: Routt User: JDM Agency or organization name: DRMS Ask LIST (DIRECT COSTS) Form Description Fleet Seal and Abandon Remaining Monitoring Wells BOREHOLE Mobilize/Demobilize Equipment MOBILIZE DESCRET COSTS VERHEAD AND PROFIT: Liability insurance: 2.02 Performance bond: 1.05 Job superintendent: 35.57 Profit: 10.00 TOTAI CONTRACT AMOUNT (direct + GAL - ENGINEERING - PROJECT MANAGEMENT: Financial warranty processing (legal/related costs): 0.00 Engineering work and/or contract/bid preparation: 4.25 Reclamation management and/or administration: 5.00 CONTINGENCY: 0.00 TOTAL INDIRECT	Exploration 2017 Review Permit ROJECT IDENTIFICATION Task #: 000 State: Colorado Abbreviatio Date: 5/2/2017 County: Routt Filenam User: JDM Agency or organization name: DRMS Form Fleet Task Hours Agency or organization name: DRMS State: Colorado Size Task Agency or organization name: DRMS Size Task Hours Seal and Abandon Remaining Monitoring Wells BOREHOLE 1 70.00 Mobilize/Demobilize Equipment MOBILIZE 1 1.14 SUBTOTALS: 71 CHEHEAD AND PROFIT: Itability insurance: 2.02 Total = Performance bond: 1.05 Total = Profit: 10.00 Total = Profit: 10.00 Total = CONTRACT AMOUNT (direct + O & P) = CONTRACT AMOUNT (direct + O & P) = CGAL - ENGINEERING - PROJECT MANAGEMENT: Total = Total = Engineering work and/or contract/bid preparation: <u>4.25</u> ///	Exploration 2017 Review Permit/Job# ROJECT IDENTIFICATION Task #: 000 State: Colorado Abbreviation: Filename: Filen

BOREHOLE SEALING WORK

ite:	Cottonw Explorat	ood Land ion	Pe	rmit Action:	2017 Review]	Permit/Job#:	X199621900
	<u>PROJEC</u>	T IDENTIF	ICATION					
	Task #:	001	State:	Colorado		Abbreviation:	None	
	Date: User:	5/2/2017 JDM	County:	Routt		Filename:	X219-001	

UNIT COSTS

Borehole Description	Sealing/Item Method	Diameter	Length	Quantity	Unit	Unit Cost	Total Cost
Seal (6) 2" Wells	Portland cement grout (Bag, material cost only94 lb. bag)	2.00	8755.25	96.00	bag	\$10.55	\$1,012.80
Cut Casings	Exposed casing removal - Calculate Circumference in Linear Feet	2.00	3	3.00	LF	\$1.77	\$5.31
Borehole Markers	Borehole location/identification marker (EA, material cost only)	NA	NA	6.00	EA	\$3.67	\$22.02
Drill Rig and Labor	SCHRAMM T450WS	NA	NA	70.00	EA	\$262.19	\$18,353.30
Water Truck and Labor	Water Tanker, 2,500 Gal.	NA	NA	70.00	EA	\$50.75	\$3,552.50

Job Hours: 70.00

Total Cost: \$22,946.00

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Cottonwood I : Exploration	Land	Permit		Review	1	Permit/Job#:	K199621900
PROJECT IDE	NTIFICATI	ON					
Task #: 00 Date: 5/2	2/2017		lorado outt			eviation: <u>Non</u> ilename: X21	e 9-002
User: JD		County. <u>K</u>	pull		FI		9-002
Agency	or organization	n name: DRMS					
EQUIPMENT '	TRANSPOR	T RIG COST					
					Shift ba	sis: 1 per d	av
				C	Cost Data Sour		
-		rintion: CENE				DR, 6X4, DIESE	
Truc	k Tractor Desc	Inpuoli. GENE					ETOWERED,
				400 HP	(2ND HALF,	2006)	
	ck Tractor Desc		ENERIC FOLD	400 HP DING GOO	(2ND HALF,	2006) ROP DECK EQU	
Truc			ENERIC FOLD	400 HP DING GOO	(2ND HALF, SENECK, DF	2006) ROP DECK EQU	
Truc Cost Breakdown:	ck Trailer Desc	ription: G	ENERIC FOLD	400 HP DING GOO FRAILER	(2ND HALF, SENECK, DF (25T, 50T, AN	2006) ROP DECK EQU	
Truc Cost Breakdown: Available Rig (ck Trailer Desc C apacities	ription: Gl	ENERIC FOLD	400 HP DING GOO FRAILER 51+	(2ND HALF, SENECK, DF (25T, 50T, AN Tons	2006) ROP DECK EQU	
Truc <u>Cost Breakdown:</u> Available Rig (Ownershi	ck Trailer Desc C apacities p Cost/Hour:	ription: Gl	ENERIC FOLD 7 26-50 Tons \$18.37	400 HP DING GOO ΓRAILER (51+ \$2	(2ND HALF, SENECK, DF (25T, 50T, AN 	2006) ROP DECK EQU	
Truc <u>Cost Breakdown:</u> <u>Available Rig (</u> <u>Ownershi</u> Operatin	ck Trailer Desc C apacities p Cost/Hour: g Cost/Hour:	ription: Gl	ENERIC FOLD 7 26-50 Tons \$18.37 \$46.13	400 HP DING GOO ΓRAILER (51+ \$2 \$5	(2ND HALF, SENECK, DF (25T, 50T, AN 2.33 0.07	2006) ROP DECK EQU	
Truc Cost Breakdown: Available Rig C Ownershi Operatin Operatin	ck Trailer Desc C apacities p Cost/Hour: g Cost/Hour: or Cost/Hour:	ription: Gl	ENERIC FOLD 7 26-50 Tons \$18.37	400 HP PING GOO ΓRAILER (51+ \$2 \$5 \$2 \$2	(2ND HALF, SENECK, DF (25T, 50T, AN 	2006) ROP DECK EQU	
Truc Cost Breakdown: Available Rig (Ownershi Operatin Operato Helpe	ck Trailer Desc C apacities p Cost/Hour: g Cost/Hour:	ription: Gl	ENERIC FOLD 7 26-50 Tons \$18.37 \$46.13 \$27.66	400 HP PING GOO FRAILER (51+ \$2 \$5 \$2 \$2 \$2 \$2	(2ND HALF, SENECK, DF (25T, 50T, AN 2.33 0.07 7.66	2006) ROP DECK EQU	
Truc <u>Cost Breakdown:</u> <u>Available Rig (</u> Ownershi Operatin Operatio Helpe Total Uni	ck Trailer Desc Capacities p Cost/Hour: g Cost/Hour: or Cost/Hour: er Cost/Hour: it Cost/Hour:	0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00 \$88.67	ENERIC FOLD 7 26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39	400 HP PING GOO FRAILER (51+ \$2 \$5 \$2 \$2 \$2 \$2	(2ND HALF, SENECK, DF (25T, 50T, AN 2.33 0.07 7.66 (5.39	2006) ROP DECK EQU	
Truc <u>Cost Breakdown:</u> <u>Available Rig (</u> Ownershi Operatin Operatio Helpe Total Uni	ck Trailer Desc Capacities p Cost/Hour: g Cost/Hour: or Cost/Hour: er Cost/Hour: it Cost/Hour:	0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00 \$88.67	ENERIC FOLD 7 26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39	400 HP PING GOO FRAILER (51+ \$2 \$5 \$2 \$2 \$2 \$2	(2ND HALF, SENECK, DF (25T, 50T, AN 2.33 0.07 7.66 (5.39	2006) ROP DECK EQU	
Truc <u>Cost Breakdown:</u> <u>Available Rig (</u> Ownershi Operatin Operatio Helpe Total Uni	ck Trailer Desc Capacities p Cost/Hour: g Cost/Hour: or Cost/Hour: er Cost/Hour: it Cost/Hour: BLE EQUIPN	o-25 Tons Gi \$16.63 \$44.38 \$27.66 \$0.00 \$88.67 \$	ENERIC FOLD 7 26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39 \$117.55	400 HP PING GOO FRAILER (51+ \$2 \$5 \$2 \$2 \$2 \$2	(2ND HALF, SENECK, DF (25T, 50T, AN 2.33 0.07 7.66 (5.39) 25.45	2006) ROP DECK EQU ND 100T) Return Trip	JIPMENT
Truc <u>Cost Breakdown:</u> <u>Available Rig (</u> Ownershi Operatin Operato Helpe Total Uni NON ROADAE	ck Trailer Desc Capacities p Cost/Hour: g Cost/Hour: or Cost/Hour: er Cost/Hour: it Cost/Hour:	0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00 \$88.67	ENERIC FOLD 7 26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39	400 HP PING GOO FRAILER (51+ \$2 \$5 \$2 \$2 \$1 \$1	(2ND HALF, SENECK, DF (25T, 50T, AN 2.33 0.07 7.66 (5.39	2006) ROP DECK EQU ND 100T)	
Truc <u>Cost Breakdown:</u> <u>Available Rig (</u> Ownershi Operatin Operato Helpe Total Uni NON ROADAH Machine	ck Trailer Desc Capacities p Cost/Hour: g Cost/Hour: or Cost/Hour: er Cost/Hour: it Cost/Hour: BLE EQUIPN Weight/	0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00 \$88.67 MENT: Owner ship	ENERIC FOLD 26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39 \$117.55 Haul Rig	400 HP PING GOO FRAILER (51+ \$2 \$5 \$2 \$12 \$12 \$12 \$12 \$12 \$12 \$12	(2ND HALF, SENECK, DF (25T, 50T, AN 2.33 0.07 7.66 5.39 25.45 Haul Trip	2006) ROP DECK EQU ND 100T) Return Trip	JIPMENT
Truc Cost Breakdown: Available Rig (Ownershi Operatin Operato Helpe Total Uni NON ROADAH Machine	ck Trailer Desc Capacities p Cost/Hour: g Cost/Hour: or Cost/Hour: er Cost/Hour: it Cost/Hour: BLE EQUIPN Weight/ Unit	0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00 \$88.67 MENT: Owner ship	ENERIC FOLD 7 26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39 \$117.55 Haul Rig Cost/hr/uni	400 HP PING GOO FRAILER (51+ \$2 \$5 \$2 \$12 \$12 \$12 \$12 \$12 \$12 \$12	(2ND HALF, SENECK, DF (25T, 50T, AN 2.33 0.07 7.66 5.39 25.45 Haul Trip Cost/hr/	2006) ROP DECK EQU ND 100T) Return Trip	JIPMENT

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Water Tanker, 2,500 Gal.	\$44.01	1	\$44.01	\$44.01
		Subtotals:	\$44.01	\$44.01

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	HAYDEN	
Total one-way travel distance:	10.00	miles
Average Travel Speed:	35.00	mph
Total Non-Roadable Mob/Demob Cost *	\$640.01	

* two round trips with haul rig: \$649.01

Total Roadable Mob/Demob Cost **	\$25.15
** one round trip, no haul rig:	\$23.13

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.29	0.29
Return Time (Hours):	0.29	0.29
Loading Time (Hours):	0.00	NA
Unloading Time (Hours):	0.00	NA
Subtotals:	0.57	0.57

JOB TIME AND COST

Total job time:	1.14	Hours
Total job cost:	\$674	

Cotton model and /ECEL Demuit Action				
Cottonwood Land/F.C.E.L. Permit Action: te: Area	2017 Review		Permit/Jo	ob#: X19962190
PROJECT IDENTIFICATION				
Task #: 000 State: Colorado			Abbreviation:	None
Date: 5/2/2017 County: Routt			Filename:	X219-000
User: JDM				
Agency or organization name: DRMS				
TASK LIST (DIRECT COSTS)				
sk p	Form	Fleet	Task	
Description I Seal and Abandon Remaining Water Monitoring	Used BOREHOLE	Size	Hours 155.00	Cost \$50,834.28
Wells	DOREHULE	1	155.00	\$30,834.28
Mobilize/Demobilize Equipment	MOBILIZE	1	1.71	\$761.00
INDIRECT COSTS				
INDIRECT COSTS OVERHEAD AND PROFIT: Liability insurance: 2.02 Performance bond: 1.05 Job superintendent: 78.36			$\begin{array}{r} \text{Total} = & \$ \\ \text{Total} = & \$ \end{array}$	61,042.22 5541.75 55,723.83
OVERHEAD AND PROFIT: Liability insurance: 2.02 Performance bond: 1.05		TOTAL	Total = $Total = $ $Total =$	6541.75 65,723.83 65,159.50
OVERHEAD AND PROFIT:Liability insurance:2.02Performance bond:1.05Job superintendent:78.36Profit:10.00	RACT AMOUNT		Total = $Total = $ $Total = $ $Total = $ $CO & P =$	5541.75 55,723.83 55,159.50 512,467.30
OVERHEAD AND PROFIT: Liability insurance: 2.02 Performance bond: 1.05 Job superintendent: 78.36 Profit: 10.00 CONT	RACT AMOUNT		Total = $Total = $ $Total = $ $Total = $ $CO & P =$	6541.75 65,723.83 65,159.50
OVERHEAD AND PROFIT: Liability insurance: 2.02 Performance bond: 1.05 Job superintendent: 78.36 Profit: 10.00 CONT LEGAL - ENGINEERING - PROJECT MANAGEMENT	:		Total = $Total = $ $Total = $ S $Total = $ S $O & P = $ S $O & P) =$	5541.75 55,723.83 55,159.50 612,467.30 664,062.30
OVERHEAD AND PROFIT: Liability insurance: 2.02 Performance bond: 1.05 Job superintendent: 78.36 Profit: 10.00 CONT			$Total = \frac{9}{5}$ $Total = \frac{9}{5}$ $Total = \frac{9}{5}$ $O \& P = \frac{9}{5}$ $O \& P) = \frac{9}{5}$ $Total = -0$	5541.75 55,723.83 55,159.50 512,467.30
OVERHEAD AND PROFIT: Liability insurance: 2.02 Performance bond: 1.05 Job superintendent: 78.36 Profit: 10.00 CONT LEGAL - ENGINEERING - PROJECT MANAGEMENT Financial warranty processing (legal/related costs):	: 0.00		$Total = \frac{9}{5}$ $Total = \frac{9}{5}$ $Total = \frac{9}{5}$ $O \& P = \frac{9}{5}$ $O \& P) = \frac{9}{5}$ $Total = \frac{0}{5}$	3541.75 35,723.83 35,159.50 312,467.30 364,062.30 0.00
OVERHEAD AND PROFIT: Liability insurance: 2.02 Performance bond: 1.05 Job superintendent: 78.36 Profit: 10.00 CONT LEGAL - ENGINEERING - PROJECT MANAGEMENT Financial warranty processing (legal/related costs): Engineering work and/or contract/bid preparation:	: 0.00 4.25		$Total = \frac{9}{5}$ $Total = \frac{9}{5}$ $Total = \frac{9}{5}$ $O \& P = \frac{9}{5}$ $O \& P) = \frac{9}{5}$ $Total = \frac{0}{5}$ $Total = \frac{9}{5}$	3541.75 35,723.83 35,159.50 312,467.30 364,062.30 0.00 32,722.65
OVERHEAD AND PROFIT: Liability insurance: 2.02 Performance bond: 1.05 Job superintendent: 78.36 Profit: 10.00 CONT LEGAL - ENGINEERING - PROJECT MANAGEMENT Financial warranty processing (legal/related costs): Engineering work and/or contract/bid preparation: Reclamation management and/or administration:	: 0.00 4.25 5.00	(direct +	$Total = \frac{9}{5}$ $Total = \frac{9}{5}$ $Total = \frac{9}{5}$ $O \& P = \frac{9}{5}$ $O \& P) = \frac{9}{5}$ $Total = \frac{9}{5}$ $Total = \frac{9}{5}$ $Total = \frac{9}{5}$	5541.75 55,723.83 55,159.50 512,467.30 564,062.30 0.00 52,722.65 53,203.12
OVERHEAD AND PROFIT: Liability insurance: 2.02 Performance bond: 1.05 Job superintendent: 78.36 Profit: 10.00 CONT LEGAL - ENGINEERING - PROJECT MANAGEMENT Financial warranty processing (legal/related costs): Engineering work and/or contract/bid preparation: Reclamation management and/or administration: CONTINGENCY:	: 0.00 4.25 5.00 0.00	(direct + - - - NDIRECT	$Total = \frac{9}{5}$ $Total = \frac{9}{5}$ $Total = \frac{9}{5}$ $O \& P = \frac{9}{5}$ $O \& P = \frac{9}{5}$ $Total = \frac{9}{5}$ $Total = \frac{9}{5}$ $Total = \frac{9}{5}$ $Total = \frac{9}{5}$	5541.75 55,723.83 55,159.50 512,467.30 564,062.30 0.00 52,722.65 53,203.12 50.00 518,393.06

BOREHOLE SEALING WORK

	Cottonwo Area	ood Land/F.C.F	E.L. Pe	ermit Action:	2017 Review		Permit/Job#:	X199621901
D	DOIEC	T IDENTIFI(CATION					
<u>P</u>	KUJEU		CATION					
<u>P</u>]	Task #:	001	State:	Colorado		Abbreviation	: None	

UNIT COSTS

Borehole Description	Sealing/Item Method	Diameter	Length	Quantity	Unit	Unit Cost	Total Cost
Seal (20) 2" Wells	Portland cement grout (Bag, material cost only94 lb. bag)	2.00	19428.00	212.00	bag	\$10.55	\$2,236.60
Cut Casing	Exposed casing removal - Calculate Circumference in Linear Feet	2.00	10.5	10.50	LF	\$1.77	\$18.59
Borehole Markers	Borehole location/identification marker (EA, material cost only)	NA	NA	20.00	EA	\$3.67	\$73.40
Drill Rig and Labor	SCHRAMM T450WS	NA	NA	155.00	EA	\$262.19	\$40,639.45
Water Truck and Labor	Water Tanker, 2,500 Gal.	NA	NA	155.00	EA	\$50.75	\$7,866.25

Job Hours: 155.00

Total Cost: \$50,834.00

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Cottonwo Area	ood Land/F.C.E.L.	Permit		Review]	Permit/Job#: <u>X</u>	199621901
ROJECT	IDENTIFICATI	<u>ON</u>					
Task #:	002	State: Co	lorado		Abbre	eviation: None	
Date:	5/2/2017		outt		Fi	ilename: X219	-002
User:	JDM						
Age	ency or organizatior	n name: DRMS					
QUIPME	NT TRANSPOR	T RIG COST					
					Shift ba	sis: 1 per da	IV
				C	Cost Data Sour		
	Truck Tractor Desc	ription: GENE	KIC UN-HIGH'	WAYIKU	UK IKAUI	DR, 6X4, DIESEI	POWERED,
	Truck Trailer Desc	·	ENERIC FOLD	400 HP ING GOO	(2ND HALF, SENECK, DF	2006) ROP DECK EQU	
ost Breakdo	Truck Trailer Desc	ription: G	ENERIC FOLD	400 HP ING GOO FRAILER ((2ND HALF, SENECK, DF (25T, 50T, AN	2006) ROP DECK EQU	
ost Breakdo Available F	Truck Trailer Desc wn: Rig Capacities	ription: G	ENERIC FOLD	400 HP PING GOO FRAILER (51+	(2ND HALF, SENECK, DF (25T, 50T, AN	2006) ROP DECK EQU	
ost Breakdo Available F Owne	Truck Trailer Desc <u>wn:</u> Rig Capacities ership Cost/Hour:	ription: G	ENERIC FOLD 7 26-50 Tons \$18.37	400 HP PING GOO FRAILER (51+ \$2	(2ND HALF, SENECK, DF (25T, 50T, AN Tons (2.33	2006) ROP DECK EQU	
ost Breakdo Available F Owne Oper	Truck Trailer Desc wn: Rig Capacities ership Cost/Hour: rating Cost/Hour:	ription: G	ENERIC FOLD 7 26-50 Tons \$18.37 \$46.13	400 HP ING GOO TRAILER (51+ \$2 \$5	(2ND HALF, SENECK, DF (25T, 50T, AN 	2006) ROP DECK EQU	
ost Breakdo Available F Owne Oper Oper	Truck Trailer Desc <u>wn:</u> Rig Capacities ership Cost/Hour:	ription: G	ENERIC FOLD 7 26-50 Tons \$18.37	400 HP FING GOO FRAILER (51+ \$2 \$5 \$2 \$2	(2ND HALF, SENECK, DF (25T, 50T, AN Tons (2.33	2006) ROP DECK EQU	
ost Breakdo Available F Owne Oper Oper H	Truck Trailer Desc wn: Rig Capacities ership Cost/Hour: rating Cost/Hour: erator Cost/Hour:	ription: G	ENERIC FOLD 7 26-50 Tons \$18.37 \$46.13 \$27.66	400 HP ING GOO TRAILER (51+ \$2 \$5 \$2 \$2 \$2	(2ND HALF, SENECK, DF (25T, 50T, AN 2.33 0.07 7.66	2006) ROP DECK EQU	
Cost Breakdo Available F Owne Oper Oper Oper H Tota	Truck Trailer Desc wn: Rig Capacities ership Cost/Hour: rating Cost/Hour: erator Cost/Hour: Ielper Cost/Hour:	ription: G	ENERIC FOLD 26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39	400 HP ING GOO TRAILER (51+ \$2 \$5 \$2 \$2 \$2	(2ND HALF, SENECK, DF (25T, 50T, AN 2.33 0.07 7.66 (5.39	2006) ROP DECK EQU	
Cost Breakdo Available F Owne Oper Oper Oper H Tota	Truck Trailer Desc wn: Rig Capacities ership Cost/Hour: rating Cost/Hour: erator Cost/Hour: lelper Cost/Hour: l Unit Cost/Hour:	ription: G	ENERIC FOLD 26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39	400 HP ING GOO TRAILER (51+ \$2 \$5 \$2 \$2 \$2	(2ND HALF, SENECK, DF (25T, 50T, AN 2.33 0.07 7.66 (5.39	2006) ROP DECK EQU ND 100T) Return Trip	IPMENT DOT Permit
Cost Breakdo Available F Owne Ope Ope H Tota KON ROAL	Truck Trailer Desc wn: Rig Capacities ership Cost/Hour: rating Cost/Hour: erator Cost/Hour: lelper Cost/Hour: l Unit Cost/Hour: DABLE EQUIPM Weight/ Unit	0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00 \$88.67	ENERIC FOLD 7 26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39 \$117.55	400 HP PING GOO TRAILER (51+ \$2 \$5 \$2 \$2 \$12	(2ND HALF, SENECK, DF (25T, 50T, AN 2.33 0.07 7.66 5.39 25.45 Haul Trip Cost/hr/	2006) ROP DECK EQU ND 100T)	IPMENT
Cost Breakdo Available F Owne Oper Oper Oper H Total Non ROAL Machine Description	Truck Trailer Desc wn: Rig Capacities ership Cost/Hour: rating Cost/Hour: erator Cost/Hour: lelper Cost/Hour: I Unit Cost/Hour: DABLE EQUIPN Weight/ Unit (TONS)	0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00 \$88.67 MENT: Owner ship Cost/hr/ unit	ENERIC FOLD 7 26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39 \$117.55 Haul Rig Cost/hr/uni t	400 HP ING GOO TRAILER (51+ \$2 \$5 \$2 \$2 \$12 \$12 Fleet Size	(2ND HALF, SENECK, DF (25T, 50T, AN 2.33 0.07 7.66 5.39 25.45 Haul Trip Cost/hr/ fleet	2006) ROP DECK EQU ND 100T) Return Trip Cost/hr/ fleet	IPMENT DOT Permit Cost/ fleet
Cost Breakdo Available F Owne Oper Oper H Tota NON ROAL Machine	Truck Trailer Desc wn: Rig Capacities ership Cost/Hour: rating Cost/Hour: erator Cost/Hour: lelper Cost/Hour: I Unit Cost/Hour: DABLE EQUIPN Weight/ Unit (TONS)	0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00 \$88.67 MENT: Owner ship	ENERIC FOLD 26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39 \$117.55 Haul Rig Cost/hr/uni	400 HP PING GOO TRAILER (51+ \$2 \$5 \$2 \$2 \$12 \$12 \$12	(2ND HALF, SENECK, DF (25T, 50T, AN 2.33 0.07 7.66 5.39 25.45 Haul Trip Cost/hr/	2006) ROP DECK EQU ND 100T) Return Trip	IPMENT DOT Permit

Machine Description Total Cost/hr/ Haul Trip Fleet Size

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Water Tanker, 2,500 Gal.	\$44.01	1	\$44.01	\$44.01
		Subtotals:	\$44.01	\$44.01

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region: Total one-way travel distance: Average Travel Speed:	HAYDEN 15.00 35.00	_ miles _ mph
Total Non-Roadable Mob/Demob Cost *	\$723.51	_
Total Roadable Mob/Demob Cost **	\$37.72	

** one round trip, no haul rig:

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.43	0.43
Return Time (Hours):	0.43	0.43
Loading Time (Hours):	0.00	NA
Unloading Time (Hours):	0.00	NA
Subtotals:	0.86	0.86

JOB TIME AND COST

Total job time: **1.71** Hours

Total job cost: **\$761**

Г	Summary of Remaining Re	clamation Tasks				
te:	Cottonwood Land Co Big ElkPermit Action:Project	2017 Review		Permit	/Job#	: X199821902
<u>P</u>]	ROJECT IDENTIFICATION					
	Task #:000State:ColoradoDate:5/2/2017County:RouttUser:JDM		#	Abbreviation Filenam		None
	Agency or organization name: DRMS					
T	ASK LIST (DIRECT COSTS)					
nsk	Description	Form Used	Fleet Size	Task Hours		Cost
)1	Seal and Abandon Remaining Water Monitoring Wells	BOREHOLE	1	9.00		\$295.85
		SUBTO	DTALS:		9	\$296
<u>0'</u>	VERHEAD AND PROFIT: Liability insurance: 2.02 Performance bond: 1.05 Job superintendent: 4.50 Profit: 10.00 CONT	RACT AMOUNT		Total = $Total =$ $Total =$ $Total =$ $O & P =$ $O & P) =$	\$29 \$36	
LF	GAL - ENGINEERING - PROJECT MANAGEMENT	:				
	Financial warranty processing (legal/related costs): Engineering work and/or contract/bid preparation: Reclamation management and/or administration:	0.00 4.25 5.00	-	Total = Total =	0.0 \$28 \$33	3.20
	CONTINGENCY:	0.00		Total =	\$0.	00
		TOTAL IN	NDIRECT	COST =	\$42	28.79

BOREHOLE SEALING WORK

te:	Cottonw Project	ood Land Co Big	Elk Pe	ermit Action:	2017 Review	р	ermit/Job#:	X199821902
	1 i oject				2017 100100	1		111// 521/02
	PROJEC	T IDENTIFICA	ATION					
	Task	001	State:	Colorado		Abbreviation:	None	
	#:							
	Date:	5/2/2017	County:	Routt		Filename:	X219-001	
		JDM						

UNIT COSTS

Borehole Description	Sealing/Item Method	Diameter	Length	Quantity	Unit	Unit Cost	Total Cost
Seal (4) .75" Wells	Portland cement grout (Bag, material cost only94 lb. bag)	.75	200.00	1.00	bag	\$10.55	\$10.55
Seal (5) 2" Wells	Portland cement grout (Bag, material cost only94 lb. bag)	2.00	250.00	3.00	bag	\$10.55	\$31.65
Borehole Markers	Borehole location/identification marker (EA, material cost only)	NA	NA	9.00	EA	\$3.67	\$33.03
Labor	General laborer - Colorado (total incl. fringes, empl. burden)	NA	NA	9.00	HR	\$23.53	\$211.77
Cut Casing	Exposed casing removal - Calculate Circumference in Linear Feet	2.00	5	5.00	LF	\$1.77	\$8.85

 Job Hours:
 9.00
 Total Cost:
 \$296.00

Т	ask description: Sun	nmary of Remaining Rec	lamation Tasks				
Site:	Cottonwood Alluvial GW Monitoring Program	Permit Action:	2017 Review		Permit	Job#	t: X199821903
<u> PI</u>	ROJECT IDENTIFICATI	<u>ON</u>					
	Task #: 000	State: Colorado		1	Abbreviatio	n:	None
	Date: 5/2/2017 User: JDM	County: Routt			Filenam	ie:	X219-000
	Agency or organization	name: DRMS					
<u>T</u>	ASK LIST (DIRECT COS	<u>TS)</u>					
Task	Description		Form Used	Fleet Size	Task Hours		Cost
001	Seal and Abandon Remain Wells	ing Water Monitoring	BOREHOLE	1	12.00		\$368.22
			<u>SUBTO</u>	TALS:		12	\$368
<u>01</u>	DIRECT COSTS /ERHEAD AND PROFIT: Liability insurance: Performance bond: Job superintendent: Profit: CGAL - ENGINEERING - PRO Financial warranty processi	DJECT MANAGEMENT:	0.00		Total =	\$36 \$48 \$85 0.0	86 38.30 5.80 36.39 54.39 0
	Engineering work and/or c	ontract/bid preparation:	4.25	_	Total =		5.31
	Reclamation managemen	t and/or administration:	5.00	-		\$42	2.72
		CONTINGENCY:	0.00		Total =	\$0.	00
			TOTAL IN	NDIRECT	r cost =	\$56	55.42
		TOTAL BON	ND AMOUNT (d	irect + ir	ndirect) =	\$93	33.42

BOREHOLE SEALING WORK

te:		ood Alluvial GW ing Program	Pe	ermit Action:	2017 Review	F	Permit/Job#:	X199821903
	<u>PROJEC</u>	T IDENTIFIC	ATION					
	Task #:	001	State:	Colorado		Abbreviation:	None	
	Date:	5/2/2017	County:	Routt		Filename:	X219-001	
	User:	JDM						

UNIT COSTS

Borehole Description	Sealing/Item Method	Diameter	Length	Quantity	Unit	Unit Cost	Total Cost
Seal (7) .75" Wells	Portland cement grout (Bag, material cost only94 lb. bag)	.75	191.00	1.00	bag	\$10.55	\$10.55
Seal (5) 2" Wells	Portland cement grout (Bag, material cost only94 lb. bag)	2.00	124.00	2.00	bag	\$10.55	\$21.10
Borehole Markers	Borehole location/identification marker (EA, material cost only)	NA	NA	12.00	EA	\$3.67	\$44.04
Labor	General laborer - Colorado (total incl. fringes, empl. burden)	NA	NA	12.00	HR	\$23.53	\$282.36
Cut Casings	Exposed casing removal - Calculate Circumference in Linear Feet	2.00	5.75	5.75	LF	\$1.77	\$10.18

 Job Hours:
 12.00
 Total Cost:
 \$368.00

Т	Summary of Remain	ing Rec	lamation Tasks				
Site:	TCC Coal Exploration Permit	Action:	2017 Review		Permit/J	lob#:	X199920506
<u>P</u>]	ROJECT IDENTIFICATION						
		olorado			Abbreviation		Vone
	Date: <u>5/2/2017</u> County: <u>Ro</u> User: JDM	outt			Filename	:	X205-000
	Agency or organization name:						
<u>T</u> 4	ASK LIST (DIRECT COSTS)						
Task			Form	Fleet	Task		
	Description		Used	Size	Hours		Cost
001	Seal and Abandon Remaining Water Monitor Well	ring	BOREHOLE	1	6.00		\$2,790.24
002	Mobilize/Demobilize Equipment		MOBILIZE	1	2.28		\$848.00
			<u>SUBTO</u>	TALS:	8.2	28	\$3,638
	IDIRECT COSTS VERHEAD AND PROFIT: Liability insurance: 2.02 Performance bond: 1.05 Job superintendent: 4.14 Profit: 10.00	CONTR	ACT AMOUNT		Total = - $Total = -$ $Total = -$ $Total = -$ $O & P = -$ $O & P = -$	\$73.4 \$38.2 \$302 \$363 \$777 \$4,4	20 2.43 3.80
LE	GAL - ENGINEERING - PROJECT MANAGE	EMENT:					
	Financial warranty processing (legal/related c	osts):	0.00		Total =	0.00	
	Engineering work and/or contract/bid prepar		4.25			\$187	
	Reclamation management and/or administr	ation:	5.00	_	_	\$220	0.80
	CONTINGE	NCY:	0.00		Total =	\$0.0	0
			TOTAL IN	NDIRECT	COST = _	\$1,1	86.39
	TOT	AL BON	D AMOUNT (d	irect + in	direct) =	\$4,82	24.39

BOREHOLE SEALING WORK

Task desci	ription:	Seal and Aba	ndon Remaiı	ning Water Mo	nitoring Well		
TCC Coa	l Exploration	Pe	ermit Action:	2017 Review	H	Permit/Job#:	X199920506
PROJEC	T IDENTIFIC	ATION State:	Colorado		Abbreviation:	None	
#: Date: User:	5/2/2017 JDM	County:	Routt		Filename:	X205-001	
,	TCC Coa ROJEC Task #: Date:	Task 001 #: Date: 5/2/2017	FCC Coal Exploration Performed State ROJECT IDENTIFICATION State: Task 001 State: #:	TCC Coal Exploration Permit Action: ROJECT IDENTIFICATION Permit Action: Task 001 State: Colorado #:	TCC Coal Exploration Permit Action: 2017 Review ROJECT IDENTIFICATION Task 001 State: Colorado #:	TCC Coal Exploration Permit Action: 2017 Review I ROJECT IDENTIFICATION Image: Colorado Abbreviation: Task 001 State: Colorado Abbreviation: #:	TCC Coal Exploration Permit Action: 2017 Review Permit/Job#: ROJECT IDENTIFICATION Task 001 State: Colorado Abbreviation: None #:

UNIT COSTS

Borehole Description	Sealing/Item Method	Diameter	Length	Quantity	Unit	Unit Cost	Total Cost
Seal Well 99CH01	Portland cement grout (Bag, material cost only94 lb. bag)	6.25	750.00	80.00	bag	\$10.55	\$844.00
Cut Casing	Exposed casing removal - Calculate Circumference in Linear Feet	6.25	1.5	1.50	LF	\$1.77	\$2.66
Borehole Marker	Borehole location/identification marker (EA, material cost only)	NA	NA	1.00	EA	\$3.67	\$3.67
Drill Rig and Labor	SCHRAMM T450BH	NA	NA	6.00	EA	\$272.57	\$1,635.42
Water Truck and Labor	Water Tanker, 2,500 Gal.	NA	NA	6.00	EA	\$50.75	\$304.50

 Job Hours:
 6.00
 Total Cost:
 \$2,790.00

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EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description:	Mo	bilize/Demobilize	Equip	oment				
: _ TCC Coal Exp	loration	Permit	Action	: 2017	Review	P	Permit/Job#: X	199920506
PROJECT IDEN	NTIFICATI	<u>ON</u>						
Task #: 002		State: Co	lorado			Abbre	viation: None	
Date: 5/2/ User: JDN	2017 /		outt				ename: X205-	-002
Agency o	r organizatior	n name: DRMS						
EQUIPMENT T	RANSPOR	<u>T RIG COST</u>						
					(Shift bas Cost Data Sourc	1	
Truck	Tractor Desc	ription: GENE	RIC OI	N-HIGH	WAY TRU		R, 6X4, DIESEL	
Truck	Trailer Desc	ription: Gl	ENERI		ING GOC		OP DECK EQUI	IPMENT
Cost Breakdown:								
Available Rig Ca		0-25 Tons		50 Tons		+ Tons		
	Cost/Hour:	\$16.63		18.37		22.33		
	Cost/Hour:	\$44.38		46.13		50.07		
	Cost/Hour:	\$27.66		27.66		27.66		
	Cost/Hour: Cost/Hour:	\$0.00 \$88.67		25.39 17.55		25.39 25.45		
			<u>٦1</u>	17.55	\$1	23.43		
NON ROADABI	LE EQUIPN	<u>AENT:</u>						
Machine	Weight/	Owner ship	Haul	Rig	Fleet	Haul Trip	Return Trip	DOT Permit
Description	Unit (TONS)	Cost/hr/ unit		/hr/uni	Size	Cost/hr/ fleet	Cost/hr/ fleet	Cost/ fleet
SCHRAMM T450WS	0.00	\$83.42	\$88.6	57	1	\$172.09	\$88.67	\$250.00
					Subtotals:	\$172.09	\$88.67	\$250.00
ROADABLE E()UIPMENT	<u>•</u>						
Machine Descript	tion	Total Cost/hr/		Fleet Siz	e	Haul Trip	Return Trip	
2 courp		unit			-	Cost/hr/ fleet	Cost/hr/ fleet	
Water Tanker, 2,50	0 Gal.	\$44.01		1		\$44.01	\$44.01	

		Subtotals:	\$44.01	\$44.01
Water Tanker, 2,500 Gal.	\$44.01	1	\$44.01	\$44.01
Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Cost/hr/ fleet

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region: Total one-way travel distance: Average Travel Speed:	HAYDEN 20.00 35.00	miles mph
Total Non-Roadable Mob/Demob Cost * '* two round trips with haul rig:	\$798.01	

Total Roadable Mob/Demob Cost **	\$50.30
** one round trip, no haul rig:	\$30.30

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.57	0.57
Return Time (Hours):	0.57	0.57
Loading Time (Hours):	0.00	NA
Unloading Time (Hours):	0.00	NA
Subtotals:	1.14	1.14

JOB TIME AND COST

Total job time:	2.29	Hours
Total job cost:	\$848	

Т	ask description: Sun	nmary of Remaining Rec	lamation Tasks			
Site:	Peabody Sage Creek 2011 Exploration Project	Permit Action:	2017 Review		Permit/Job#	#: X201123102
<u>PF</u>	ROJECT IDENTIFICATI	<u>ON</u>				
	Task #: 000 Date: 5/2/2017	State:ColoradoCounty:Routt		A	Abbreviation: Filename:	None X231-000
	User: JDM Agency or organization	n name: DRMS				
TA	ASK LIST (DIRECT COS	<u>TS)</u>			1	1
ask	Description		Form Used	Fleet Size	Task Hours	Cost
01 02	Seal and Abandon Remaini		BOREHOLE MOBILIZE	1	5.00 2.95	\$2,953.86 \$992.00
JZ	Mobilization/Demobilization	on of Equipment	MOBILIZE	1	2.95	\$992.00
			<u>SUBTO</u>	TALS:	7.95	\$3,946
IN	DIRECT COSTS					
	DIRECT COSTS /ERHEAD AND PROFIT: Liability insurance: Performance bond: Job superintendent: Profit:	2.02 1.05 3.98 10.00 CONTH	RACT AMOUNT		$\begin{array}{r} \text{Total} = & $41 \\ \text{Total} = & $29 \\ \text{Total} = & $39 \\ \text{C} \& P = & $80 \\ \end{array}$	9.71 1.43 90.37 94.60 96.11 752.11
<u>0\</u>	/ERHEAD AND PROFIT: Liability insurance: Performance bond: Job superintendent:	1.05 3.98 10.00 CONTR			$\begin{array}{r} \text{Total} = & $41 \\ \text{Total} = & $29 \\ \text{Total} = & $39 \\ \text{C} \& P = & $80 \\ \end{array}$	1.43 00.37 04.60 06.11
<u>0\</u>	/ERHEAD AND PROFIT: Liability insurance: Performance bond: Job superintendent: Profit:	1.05 3.98 10.00 CONTE DJECT MANAGEMENT: ng (legal/related costs): ontract/bid preparation:			$\begin{array}{rcl} Total = & $$41$\\ Total = & $$22$\\ Total = & $$32$\\ O \& P = & $$80$\\ O \& P) = & $$4,$\\ Total = & 0.0\\ Total = & $$20$\\ \end{array}$	1.43 00.37 04.60 06.11 752.11
<u>0\</u>	And PROFIT: Liability insurance: Performance bond: Job superintendent: Profit: CGAL - ENGINEERING - PRO Financial warranty processi Engineering work and/or c	1.05 3.98 10.00 CONTE DJECT MANAGEMENT: ng (legal/related costs): ontract/bid preparation:	0.00 4.25		$\begin{array}{rcl} Total = & $$41$\\ Total = & $$22$\\ Total = & $$32$\\ O \& P = & $$80$\\ O \& P) = & $$4,$\\ Total = & 0.0\\ Total = & $$20$\\ \end{array}$	1.43 >00.37 >4.60 >6.11 752.11 0 >01.96 37.61
<u>ov</u>	And PROFIT: Liability insurance: Performance bond: Job superintendent: Profit: CGAL - ENGINEERING - PRO Financial warranty processi Engineering work and/or c	1.05 3.98 10.00 DJECT MANAGEMENT: ng (legal/related costs): ontract/bid preparation: t and/or administration:	0.00 4.25 5.00	(direct +	$Total = \frac{$41}{$70tal} = \frac{$42}{$70tal} = \frac{$29}{$39}$ $Total = \frac{$39}{$70tal} = \frac{$80}{$80ta}$ $Total = \frac{$0.0}{$70tal} = \frac{$20ta}{$22ta}$ $Total = \frac{$0.0}{$22ta}$	1.43 >00.37 >4.60 >6.11 752.11 0 >01.96 37.61

BOREHOLE SEALING WORK

ite:	•	Sage Creek 201 ion Project	1 Pe	rmit Action:	2017 Review	I	Permit/Job#:	X201123102
	<u>PROJEC</u>	T IDENTIFIC	ATION					
	Task #:	001	State:	Colorado		Abbreviation:	None	
	Date: User:	5/2/2017 JDM	County:	Routt		Filename:	X231-001	

UNIT COSTS

Borehole Description	Sealing/Item Method	Diameter	Length	Quantity	Unit	Unit Cost	Total Cost
Plug Well CCU069	PVC plug - 8 in. diameter borehole	8.625	NA	1.00	EA	\$74.16	\$74.16
Seal Well CCU069	Portland cement grout (Bag, material cost only94 lb. bag)	8.625	586.00	119.00	bag	\$10.55	\$1,255.45
Drill Rig and Labor	SCHRAMM T450BH	NA	NA	5.00	EA	\$272.57	\$1,362.85
Water Truck	Water Tanker, 2,500 Gal.	NA	NA	5.00	EA	\$50.75	\$253.75
Borehole Marker	Borehole location/identification marker (EA, material cost only)	NA	NA	1.00	EA	\$3.67	\$3.67
Cut Casing	Exposed casing removal - Calculate Circumference in Linear Feet	8.625	2.25	2.25	LF	\$1.77	\$3.98

Job Hours: 5.00

Total Cost: \$2,954.00

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description							
Peabody Sag Exploration	ge Creek 2011 Project	Permit		Review]	Permit/Job#: <u>X</u>	201123102
PROJECT ID	ENTIFICATI	<u>ON</u>					
	02		olorado			eviation: <u>Non</u>	
	/2/2017 DM	County: <u>Ro</u>	outt		Fi	ilename: X23	1-002
Agency	y or organizatio	n name: DRMS					
EQUIPMENT	TRANSPOR	T RIG COST					
		1110 0001			Shift ba	usis: 1 per d	av
				C	Cost Data Sou		
Tru	ck Tractor Desc	ription: GENE	RIC ON-HIGH	WAY TRI		OR, 6X4, DIESE	
	CK Hactor Desc		Kie on-mon				LIOWERED,
				400 HP	(2ND HALF,	2006)	
	ick Trailer Desc		ENERIC FOLI	400 HP DING GOO	(2ND HALF,	2006) ROP DECK EQU	
Trı	ick Trailer Desc		ENERIC FOLI	400 HP DING GOO	(2ND HALF, SENECK, DF	2006) ROP DECK EQU	
Tru Cost Breakdown	ıck Trailer Desc <u>:</u>	ription: G	ENERIC FOLI	400 HP DING GOO TRAILER	(2ND HALF, SENECK, DF (25T, 50T, AN	2006) ROP DECK EQU	
Tru Cost Breakdown Available Rig	ıck Trailer Desc <u>:</u> Capacities	ription: G	ENERIC FOLI	400 HP DING GOO TRAILER 51+	(2ND HALF, SENECK, DF (25T, 50T, AN	2006) ROP DECK EQU	
Tru <u>Cost Breakdown</u> Available Rig Ownersh	ick Trailer Desc <u>:</u> Capacities ip Cost/Hour:	ription: G 0-25 Tons \$16.63	ENERIC FOLI 26-50 Tons \$18.37	400 HP DING GOO TRAILER (51+ \$2	(2ND HALF, SENECK, DF (25T, 50T, AN Tons 2.33	2006) ROP DECK EQU	
Tru <u>Cost Breakdown</u> Available Rig Ownersh Operatin	ick Trailer Desc <u>:</u> Capacities ip Cost/Hour: ng Cost/Hour:	ription: G 0-25 Tons \$16.63 \$44.38	ENERIC FOLI 26-50 Tons \$18.37 \$46.13	400 HP DING GOO TRAILER (51+ \$2 \$5	(2ND HALF, SENECK, DF (25T, 50T, AN 2.33 0.07	2006) ROP DECK EQU	
Tru Cost Breakdown Available Rig Ownersh Operati Operati	ick Trailer Desc Capacities ip Cost/Hour: ng Cost/Hour: or Cost/Hour:	ription: G 0-25 Tons \$16.63 \$44.38 \$27.66	ENERIC FOLI 26-50 Tons \$18.37 \$46.13 \$27.66	400 HP DING GOO TRAILER (51+ \$2 \$5 \$2 \$2	(2ND HALF, SENECK, DF (25T, 50T, AN 2.33 0.07 7.66	2006) ROP DECK EQU	
Tru Cost Breakdown Available Rig Ownersh Operati Operati Help	ick Trailer Desc <u>:</u> Capacities ip Cost/Hour: ng Cost/Hour:	ription: G 0-25 Tons \$16.63 \$44.38	ENERIC FOLI 26-50 Tons \$18.37 \$46.13	400 HP DING GOO TRAILER (51+ \$2 \$5 \$2 \$2 \$2 \$2	(2ND HALF, SENECK, DF (25T, 50T, AN 2.33 0.07	2006) ROP DECK EQU	
Tru Cost Breakdown Available Rig Ownersh Operati Operati Help	Capacities Capacities ip Cost/Hour: ng Cost/Hour: or Cost/Hour: er Cost/Hour:	ription: G 0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00	ENERIC FOLI 26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39	400 HP DING GOO TRAILER (51+ \$2 \$5 \$2 \$2 \$2 \$2	(2ND HALF, SENECK, DF (25T, 50T, AN 2.33 0.07 7.66 (5.39	2006) ROP DECK EQU	
Tru Cost Breakdown Available Rig Ownersh Operatin Operat Help Total Un	Capacities ip Cost/Hour: ng Cost/Hour: or Cost/Hour: per Cost/Hour: nit Cost/Hour:	ription: G 0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00 \$88.67	ENERIC FOLI 26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39	400 HP DING GOO TRAILER (51+ \$2 \$5 \$2 \$2 \$2 \$2	(2ND HALF, SENECK, DF (25T, 50T, AN 2.33 0.07 7.66 (5.39	2006) ROP DECK EQU	
Tru Cost Breakdown Available Rig Ownersh Operatin Operat Help Total Un	Capacities Capacities ip Cost/Hour: or Cost/Hour: or Cost/Hour: int Cost/Hour: hit Cost/Hour:	ription: G 0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00 \$88.67 MENT:	ENERIC FOLI 26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39	400 HP DING GOO TRAILER (51+ \$2 \$5 \$2 \$2 \$2 \$2	(2ND HALF, SENECK, DF (25T, 50T, AN 2.33 0.07 7.66 (5.39) 25.45	2006) ROP DECK EQU ND 100T) Return Trip	JIPMENT
Tru Cost Breakdown Available Rig Ownersh Operatin Operat Help Total Un NON ROADA	Capacities ip Cost/Hour: ng Cost/Hour: or Cost/Hour: per Cost/Hour: nit Cost/Hour:	ription: G 0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00 \$88.67	ENERIC FOLI 26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39 \$117.55	400 HP DING GOO TRAILER (51+ \$2 \$5 \$2 \$2 \$1 \$1	(2ND HALF, SENECK, DF (25T, 50T, AN 2.33 0.07 7.66 (5.39	2006) ROP DECK EQU ND 100T)	
Tru Cost Breakdown Available Rig Ownersh Operatin Operat Help Total Un NON ROADA Machine	Capacities Capacities ip Cost/Hour: ng Cost/Hour: or Cost/Hour: nit Cost/Hour: ber Cost/Hour: Mer Cost/Hour: BLE EQUIPN Weight/	0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00 \$88.67 MENT: Owner ship	ENERIC FOLI 26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39 \$117.55 Haul Rig	400 HP DING GOO TRAILER (51+ \$2 \$5 \$2 \$2 \$11 \$11 \$11	(2ND HALF, SENECK, DF (25T, 50T, AN 2.33 0.07 7.66 (5.39) 25.45 Haul Trip	2006) ROP DECK EQU ND 100T) Return Trip	JIPMENT
Tru Cost Breakdown Available Rig Ownersh Operatin Operat Help Total Un NON ROADA Machine	Capacities ip Cost/Hour: ng Cost/Hour: or Cost/Hour: er Cost/Hour: nit Cost/Hour: BLE EQUIPM Weight/ Unit	0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00 \$88.67 MENT: Owner ship	ENERIC FOLI 26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39 \$117.55 Haul Rig Cost/hr/uni	400 HP DING GOO TRAILER (51+ \$2 \$5 \$2 \$2 \$11 \$11 \$11	(2ND HALF, SENECK, DF (25T, 50T, AN 2.33 0.07 7.66 5.39 25.45 Haul Trip Cost/hr/	2006) ROP DECK EQU ND 100T) Return Trip	JIPMENT

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Water Tanker, 2,500 Gal.	\$50.75	1	\$50.75	\$50.75
		Subtotals:	\$50.75	\$50.75

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	HAYDEN	
Total one-way travel distance:	9.50	miles
Average Travel Speed:	40.00	mph
Total Non-Roadable Mob/Demob Cost *	\$968.04	

Total Roadable Mob/Demob Cost **	\$24.11
** one round trip, no haul rig:	\$24.11

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.24	0.24
Return Time (Hours):	0.24	0.24
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.48	0.48

JOB TIME AND COST

Total job time:	2.95	Hours
Total job cost:	\$992	_