



STATE OF
COLORADO

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

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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>



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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 As such, the NOIs are no longer ACTIVE.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.**



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**

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,

A handwritten signature in blue ink, appearing to read "Jason Musick", written in a cursive style.

Jason Musick

Environmental Protection Specialist

Jason.musick@sate.co.us

Enclosers

COST SUMMARY WORK

Task description: Summary of Tasks Remaining Under X198315905

Site: Iles Mountain

Permit Action: 2017 Review

Permit/Job#: X198315905

PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 5/1/2017

County: Moffat

Filename: X159-000

User: JDM

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Seal and Abandon Remaining Water Well	BOREHOLE	1	3.00	\$194.35
<u>SUBTOTALS:</u>				3	\$194

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02

Total = \$3.92

Performance bond: 1.05

Total = \$2.04

Job superintendent: 1.50

Total = \$109.58

Profit: 10.00

Total = \$19.40

TOTAL O & P = \$134.94

CONTRACT AMOUNT (direct + O & P) = \$328.94

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): 0.00

Total = 0.00

Engineering work and/or contract/bid preparation: 4.25

Total = \$13.98

Reclamation management and/or administration: 5.00

\$16.45

CONTINGENCY: 0.00

Total = \$0.00

TOTAL INDIRECT COST = \$165.37

TOTAL BOND AMOUNT (direct + indirect) = \$359.37

BOREHOLE SEALING WORK

Task description: Seal and Abandon Remaining Water Well

Site: Iles Mountain

Permit Action: 2017 Review

Permit/Job#: X198315905

PROJECT IDENTIFICATION

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 only...94 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 Remaining Reclamation Tasks

Site: Twentymile Fish Creek

Permit Action: 2017 Review

Permit/Job#: X198316908

PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 5/1/2017

County: Routt

Filename: X169-000

User: JDM

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Seal and Abandon Remaining Boreholes	BOREHOLE	1	21.00	\$8,066.79
002	Mobilize/Demobilize of Equipment	MOBILIZE	1	2.30	\$850.00
<u>SUBTOTALS:</u>				23.3	\$8,917

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02

Total = \$180.12

Performance bond: 1.05

Total = \$93.63

Job superintendent: 11.65

Total = \$851.03

Profit: 10.00

Total = \$891.70

TOTAL O & P = \$2,016.48

CONTRACT AMOUNT (direct + O & P) = \$10,933.48

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): 0.00

Total = 0.00

Engineering work and/or contract/bid preparation: 4.25

Total = \$464.67

Reclamation management and/or administration: 5.00

\$546.67

CONTINGENCY: 0.00

Total = \$0.00

TOTAL INDIRECT COST = \$3,027.83

TOTAL BOND AMOUNT (direct + indirect) = \$11,944.83

BOREHOLE SEALING WORK

Task description: Seal and Abandon Remaining Boreholes

Site: Twentymile Fish Creek Permit Action: 2017 Review Permit/Job#: X198316908

PROJECT IDENTIFICATION

Task # 001 State: Colorado Abbreviation: None
 #: _____
 Date: 5/1/2017 County: Routt Filename: X169-001
 User: JDM
 Agency or organization name: DRMS

UNIT COSTS

Borehole Description	Sealing/Item Method	Diameter	Length	Quantity	Unit	Unit Cost	Total Cost
Plug wells FBR-12A,12B,13,14,15A,15B	PVC plug - 4 in. diameter borehole	4.33	NA	6.00	EA	\$29.95	\$179.70
Seal wells FBR-12A,12B,13,14,15A,15B	Portland cement grout (Bag, material cost only...94 lb. bag)	4.33	2619.00	135.00	bag	\$10.55	\$1,424.25
Drill Rig and Labor	SCHRAMM T450WS	NA	NA	21.00	EA	\$262.19	\$5,505.99
Water Truck	Water Tanker, 2,500 Gal.	NA	NA	21.00	EA	\$44.01	\$924.21
Borehole Marker	Borehole location/identification 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

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description: Mobilize/Demobilize of Equipment

Site: Twentymile Fish Creek Permit Action: 2017 Review Permit/Job#: X198316908

PROJECT IDENTIFICATION

Task #: 002 State: Colorado Abbreviation: None
 Date: 5/1/2017 County: Routt Filename: X169-002
 User: JDM
 Agency or organization name: DRMS

EQUIPMENT TRANSPORT RIG COST

Shift basis: 1 per day
 Cost Data Source: CRG Data

Truck Tractor Description: GENERIC ON-HIGHWAY TRUCK TRACTOR, 6X4, DIESEL POWERED, 400 HP (2ND HALF, 2006)
 Truck Trailer Description: GENERIC FOLDING GOOSENECK, DROP DECK EQUIPMENT TRAILER (25T, 50T, AND 100T)

Cost Breakdown:

Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons
Ownership Cost/Hour:	\$16.63	\$18.37	\$22.33
Operating Cost/Hour:	\$44.38	\$46.13	\$50.07
Operator Cost/Hour:	\$27.66	\$27.66	\$27.66
Helper Cost/Hour:	\$0.00	\$25.39	\$25.39
Total Unit Cost/Hour:	\$88.67	\$117.55	\$125.45

NON ROADABLE EQUIPMENT:

Machine Description	Weight/ Unit (TONS)	Owner ship Cost/hr/ unit	Haul Rig Cost/hr/unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
SCHRAMM T450WS	0.00	\$83.42	\$88.67	1	\$172.09	\$88.67	\$250.00

Subtotals: **\$172.09** **\$88.67** **\$250.00**

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: 23.00 miles
 Average Travel Speed: 40.00 mph

Total Non-Roadable Mob/Demob Cost * \$799.87
 * two round trips with haul rig:
 Total Roadable Mob/Demob Cost ** \$50.61
 ** one round trip, no haul rig:

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable 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

Task description: Summary of remaining Reclamation Tasks

Site: Peabody Seneca II Alluvial Wells

Permit Action: 2017 Review

Permit/Job#: X198716820

PROJECT IDENTIFICATION

Task #: 000 State: Colorado Abbreviation: None
Date: 5/1/2017 County: Routt Filename: X168-000
User: JDM

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Seal and Abandon Remaining Water Monitoring Well	BOREHOLE	1	1.00	\$275.95
<u>SUBTOTALS:</u>				1	\$276

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	<u>\$5.58</u>
Performance bond:	1.05	Total =	<u>\$2.90</u>
Job superintendent:	0.50	Total =	<u>\$36.53</u>
Profit:	10.00	Total =	<u>\$27.60</u>
		TOTAL O & P =	<u>\$72.61</u>
		CONTRACT AMOUNT (direct + O & P) =	<u>\$348.61</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>4.25</u>	Total =	<u>\$14.82</u>
Reclamation management and/or administration:	<u>5.00</u>		<u>\$17.43</u>

CONTINGENCY: 0.00 Total = \$0.00

TOTAL INDIRECT COST = \$104.86

TOTAL BOND AMOUNT (direct + indirect) = \$380.86

BOREHOLE SEALING WORK

Task description: Seal and Abandon Remaining Water Monitoring Well

Site: Peabody Seneca II Alluvial Wells Permit Action: 2017 Review Permit/Job#: X198716820

PROJECT IDENTIFICATION

Task #: 001 State: Colorado Abbreviation: None
 Date: 5/1/2017 County: Routt Filename: X168-001
 User: JDM

Agency or organization name: DRMS

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 only...94 lb. bag)	12.00	18.00	7.00	bag	\$10.55	\$73.85
Seal Borehole #2	Portland cement grout (Bag, material cost only...94 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

Permit Action: 2017 Review

Permit/Job#: X198816822

PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 5/1/2017

County: Routt

Filename: X168-000

User: JDM

Agency or organization name: DRMS

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>SUBTOTALS:</u>				14.85	\$7,223

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	<u>\$145.90</u>
Performance bond:	1.05	Total =	<u>\$75.84</u>
Job superintendent:	7.43	Total =	<u>\$542.40</u>
Profit:	10.00	Total =	<u>\$722.30</u>

TOTAL O & P = \$1,486.44

CONTRACT AMOUNT (direct + O & P) = \$8,709.44

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>4.25</u>	Total =	<u>\$370.15</u>
Reclamation management and/or administration:	<u>5.00</u>		<u>\$435.47</u>

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 Permit Action: 2017 Review Permit/Job#: X198816822

PROJECT IDENTIFICATION

Task # 001 State: Colorado Abbreviation: None
 #: _____
 Date: 5/1/2017 County: Routt Filename: X168-001
 User: JDM
 Agency or organization name: 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 only...94 lb. bag)	5.125	760.40	54.00	bag	\$10.55	\$569.70
Seal Well 2880B	Portland cement grout (Bag, material cost only...94 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 only...94 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

EQUIPMENT MOBILIZATION/DEMobilIZATION

Task description: Mobilize/Demobilize for Remaining Reclamation Tasks

Site: Peabody Yoast/Seneca Permit Action: 2017 Review Permit/Job#: X198816822

PROJECT IDENTIFICATION

Task #: 002 State: Colorado Abbreviation: None
 Date: 5/1/2017 County: Routt Filename: X168-002
 User: JDM
 Agency or organization name: DRMS

EQUIPMENT TRANSPORT RIG COST

Shift basis: 1 per day
 Cost Data Source: CRG Data

Truck Tractor Description: GENERIC ON-HIGHWAY TRUCK TRACTOR, 6X4, DIESEL POWERED, 400 HP (2ND HALF, 2006)

Truck Trailer Description: GENERIC FOLDING GOOSENECK, DROP DECK EQUIPMENT TRAILER (25T, 50T, AND 100T)

Cost Breakdown:

Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons
Ownership Cost/Hour:	\$16.63	\$18.37	\$22.33
Operating Cost/Hour:	\$44.38	\$46.13	\$50.07
Operator Cost/Hour:	\$27.66	\$27.66	\$27.66
Helper Cost/Hour:	\$0.00	\$25.39	\$25.39
Total Unit Cost/Hour:	\$88.67	\$117.55	\$125.45

NON ROADABLE EQUIPMENT:

Machine Description	Weight/ Unit (TONS)	Owner ship Cost/hr/ unit	Haul Rig Cost/hr/unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
SCHRAMM T450WS	0.00	\$83.42	\$88.67	1	\$172.09	\$88.67	\$250.00

Subtotals: **\$172.09** **\$88.67** **\$250.00**

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: 25.00 miles
 Average Travel Speed: 35.00 mph

Total Non-Roadable Mob/Demob Cost * \$872.51
 * two round trips with haul rig:
 Total Roadable Mob/Demob Cost ** \$62.87
 ** one round trip, no haul rig:

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable 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

Task description: Summary of Remaining Reclamation Tasks

Site: Peabody Seneca II-W/Yoast
Monitor Wells

Permit Action: 2017 Review

Permit/Job#: X199016823

PROJECT IDENTIFICATION

Task #: 000 State: Colorado Abbreviation: None
Date: 5/2/2017 County: Routt Filename: X168-000
User: JDM

Agency or organization name: DRMS

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
<u>SUBTOTALS:</u>				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):	<u>0.00</u>	Total =	<u>0.00</u>
Engineering work and/or contract/bid preparation:	<u>4.25</u>	Total =	<u>\$1,299.85</u>
Reclamation management and/or administration:	<u>5.00</u>		<u>\$1,529.24</u>

CONTINGENCY: 0.00 Total = \$0.00

TOTAL INDIRECT COST = \$9,611.87

TOTAL BOND AMOUNT (direct + indirect) = \$33,413.87

BOREHOLE SEALING WORKTask description: Seal and Abandon Remaining Water Monitoring WellsSite: Peabody Seneca II-W/Yoast
Monitor WellsPermit Action: 2017 ReviewPermit/Job#: X199016823**PROJECT IDENTIFICATION**

Task #: 001 State: Colorado Abbreviation: None
 Date: 5/2/2017 County: Routt Filename: X168-001
 User: JDM

Agency or organization name: DRMS**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 only...94 lb. bag)	10.50	230.50	69.00	bag	\$10.55	\$727.95
Seal (11) 6.75" Wells	Portland cement grout (Bag, material cost only...94 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: 22.00Total Cost: \$11,091.00

BULLDOZER WORKTask description: Regrade Drill Pads

Site: Peabody Seneca II-W/Yoast Permit Action: 2017 Review Permit/Job#: X199016823
Monitor Wells

PROJECT IDENTIFICATION

Task #: 002 State: Colorado Abbreviation: None
 Date: 5/2/2017 County: Routt Filename: X168-002
 User: JDM

Agency or organization name: DRMSHOURLY EQUIPMENT COST

Basic Machine: Cat D6T XL
 Horsepower: 185
 Blade Type: Semi-Universal
 Attachment: NA
 Shift Basis: 1 per day
 Data Source: (CRG)

Cost Breakdown:

		<u>Utilization %</u>
Ownership Cost/Hour:	\$46.87	NA
Operating Cost/Hour:	\$41.52	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:	\$130.24	
Total Fleet Cost/Hour:	\$130.24	

MATERIAL QUANTITIES

Initial Volume: 3,704
 Swell factor: 1.125
 Loose volume: 4,167 LCY

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

HOURLY PRODUCTION

Average push distance: 50 feet
 Unadjusted hourly
 production: 444.6 LCY/hr

Materials consistency description: Compacted fill or embankment 0.9

Average push
 gradient: 0 %
 Average site altitude: 7,000 feet

Material weight: 2,650 lbs/LCY

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

<u>Job Condition</u>	<u>Correction Factor</u>	<u>Source</u>
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

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

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.717/LCY

Total job time: **22.94 Hours**
Total job cost: **\$2,988**

BULLDOZER WORKTask description: Regrade Access Road

Site: Peabody Seneca II-W/Yoast Permit Action: 2017 Review Permit/Job#: X199016823
Monitor Wells

PROJECT IDENTIFICATION

Task #: 003 State: Colorado Abbreviation: None
 Date: 5/2/2017 County: Routt Filename: X168-003
 User: JDM

Agency or organization name: DRMSHOURLY EQUIPMENT COST

Basic Machine: Cat D6T XL
 Horsepower: 185
 Blade Type: Semi-Universal
 Attachment: NA
 Shift Basis: 1 per day
 Data Source: (CRG)

Cost Breakdown:

		<u>Utilization %</u>
Ownership Cost/Hour:	\$46.87	NA
Operating Cost/Hour:	\$41.52	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:	\$130.24	
Total Fleet Cost/Hour:	\$130.24	

MATERIAL QUANTITIES

Initial Volume: 1,760
 Swell factor: 1.125
 Loose volume: 1,980 LCY

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

HOURLY PRODUCTION

Average push distance: 200 feet
 Unadjusted hourly
 production: 153.6 LCY/hr

Materials consistency description: Compacted fill or embankment 0.9

Average push
 gradient: 0 %
 Average site altitude: 7,000 feet

Material weight: 2,650 lbs/LCY

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

<u>Job Condition</u>	<u>Correction Factor</u>	<u>Source</u>
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

Adjusted unit
production: 62.75 LCY/hr
Adjusted fleet
production: **62.75 LCY/hr**

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$2.075/LCY

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

BULLDOZER WORKTask description: Replace Topsoil on Drillpads and Access RoadSite: Peabody Seneca II-W/Yoast
Monitor WellsPermit Action: 2017 ReviewPermit/Job#: X199016823PROJECT IDENTIFICATIONTask #: 004 State: Colorado Abbreviation: None
Date: 5/2/2017 County: Routt Filename: X168-004
User: JDMAgency or organization name: DRMSHOURLY EQUIPMENT COSTBasic Machine: Cat D6T XL
Horsepower: 185
Blade Type: Semi-Universal
Attachment: NA
Shift Basis: 1 per day
Data Source: (CRG)Cost Breakdown:

		<u>Utilization %</u>
Ownership Cost/Hour:	<u>\$46.87</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$41.52</u>	<u>100</u>
Ripper own. Cost/Hour:	<u>\$0.00</u>	<u>NA</u>
Ripper op. Cost/Hour:	<u>\$0.00</u>	<u>0</u>
Operator Cost/Hour:	<u>\$41.85</u>	<u>NA</u>
Total unit Cost/Hour:	<u>\$130.24</u>	
Total Fleet Cost/Hour:	<u>\$130.24</u>	

MATERIAL QUANTITIESInitial Volume: 2,732
Swell factor: 1.000
Loose volume: 2,732 LCYSource of estimated volume: Division of Reclamation, Mining & Safety
Source of estimated swell
factor: Cat HandbookHOURLY PRODUCTIONAverage push distance: 100 feet
Unadjusted hourly
production: 303.3 LCY/hrMaterials consistency description: Partly consolidated stockpile 1.1Average push
gradient: 0 %
Average site altitude: 7,000 feetMaterial weight: 2,550 lbs/LCY

Weight description: Earth - Dry packed

<u>Job Condition</u>	<u>Correction Factor</u>	<u>Source</u>
Operator Skill:	0.900	(AB.AVG.)
Material consistency:	1.100	(CAT HB)
Dozing method:	1.000	(GEN.)
Visibility:	0.800	(POOR)
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:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4151

Adjusted unit
production: 125.90 LCY/hr
Adjusted fleet
production: **125.9** LCY/hr

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**

REVEGETATION WORK

Task description: Reseed Drill Pads and Access Road

Site: Peabody Seneca II-W/Yoast Permit Action: 2017 Review Permit/Job#: X199016823
Monitor Wells

PROJECT IDENTIFICATION

Task #: 005 State: Colorado Abbreviation: None
 Date: 5/2/2017 County: Routt Filename: X168-005
 User: JDM

Agency or organization name: DRMS

FERTILIZING

Materials

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

Application

Description	Cost /Acre
	\$
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

Application

Description	Cost /Acre
Broadcast seeding [DMG]	\$267.22
Total Seed Application Cost/Acre	\$267.22

MULCHING and MISCELLANEOUS**Materials**

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

Application

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

NURSERY STOCK PLANTING

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

JOB TIME AND COST

No. of Acres:	<u>2.3</u>	Cost /Acre:	<u>\$527.30</u>
Estimated Failure Rate:	<u>20%</u>	Cost /Acre*:	<u>\$527.30</u>
*Selected Replanting Work Items:	<u>SEEDING</u>		
Initial Job Cost:	<u>\$1,212.79</u>		
Reseeding Job Cost:	<u>\$242.56</u>		
Total Job Cost:	<u>\$1,455</u>		
Job Hours:	<u>1.20</u>		

EQUIPMENT MOBILIZATION/DEMobilIZATION

Task description: Mobilize/Demobilize Equipment

Site: Peabody Seneca II-W/Yoast
Monitor Wells

Permit Action: 2017 Review

Permit/Job#: X199016823

PROJECT IDENTIFICATION

Task #: 006
Date: 5/2/2017
User: JDM

State: Colorado
County: Routt

Abbreviation: None
Filename: X168-006

Agency or organization name: DRMS

EQUIPMENT TRANSPORT RIG COST

Shift basis: 1 per day
Cost Data Source: CRG Data

Truck Tractor Description: GENERIC ON-HIGHWAY TRUCK TRACTOR, 6X4, DIESEL POWERED, 400 HP (2ND HALF, 2006)

Truck Trailer Description: GENERIC FOLDING GOOSENECK, DROP DECK EQUIPMENT TRAILER (25T, 50T, AND 100T)

Cost Breakdown:

Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons
Ownership Cost/Hour:	\$16.63	\$18.37	\$22.33
Operating Cost/Hour:	\$44.38	\$46.13	\$50.07
Operator Cost/Hour:	\$27.66	\$27.66	\$27.66
Helper Cost/Hour:	\$0.00	\$25.39	\$25.39
Total Unit Cost/Hour:	\$88.67	\$117.55	\$125.45

NON ROADABLE EQUIPMENT:

Machine Description	Weight/ Unit (TONS)	Owner ship Cost/hr/ unit	Haul Rig Cost/hr/unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
Cat D6T LGP	26.87	\$43.25	\$117.55	1	\$160.80	\$117.55	\$250.00
SCHRAMM T450WS	0.00	\$83.42	\$88.67	1	\$172.09	\$88.67	\$250.00

Subtotals: **\$332.89** **\$206.22** **\$500.00**

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 * \$1,308.06
** two round trips with haul rig:
Total Roadable Mob/Demob Cost ** \$25.15
** one round trip, no haul rig:

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

Task description: Summary of Remaining Reclamation Tasks

Site: Peabody 1993 Dry Creek Project Permit Action: 2017 Review Permit/Job#: X199316827

PROJECT IDENTIFICATION

Task #: 000 State: Colorado Abbreviation: None
 Date: 5/2/2017 County: Routt Filename: X168-000
 User: JDM

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Seal and Abandon Remaining Water Monitoring Wells	BOREHOLE	1	8.00	\$3,548.71
002	Mobilize/Demobilize Drilling Equipment	MOBILIZE	1	1.14	\$674.00
<u>SUBTOTALS:</u>				9.14	\$4,223

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02	Total =	<u>\$85.30</u>
Performance bond: 1.05	Total =	<u>\$44.34</u>
Job superintendent: 4.57	Total =	<u>\$333.84</u>
Profit: 10.00	Total =	<u>\$422.30</u>

TOTAL O & P = \$885.78

CONTRACT AMOUNT (direct + O & P) = \$5,108.78

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>4.25</u>	Total =	<u>\$217.12</u>
Reclamation management and/or administration: <u>5.00</u>		<u>\$255.44</u>

CONTINGENCY: 0.00 Total = \$0.00

TOTAL INDIRECT COST = \$1,358.34

TOTAL BOND AMOUNT (direct + indirect) = \$5,581.34

BOREHOLE SEALING WORK

Task description: Seal and Abandon Remaining Water Monitoring Wells

Site: **Peabody 1993 Dry Creek Project** Permit Action: 2017 Review Permit/Job#: X199316827

PROJECT IDENTIFICATION

Task #: 001 State: Colorado Abbreviation: None
 Date: 5/2/2017 County: Routt Filename: X168-001
 User: JDM

Agency or organization name: DRMS

UNIT COSTS

Borehole Description	Sealing/Item Method	Diameter	Length	Quantity	Unit	Unit Cost	Total Cost
Seal Well 3314C	Portland cement grout (Bag, material cost only...94 lb. bag)	6.00	498.00	49.00	bag	\$10.55	\$516.95
Seal Well 3317C	Portland cement grout (Bag, material cost only...94 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

EQUIPMENT MOBILIZATION/DEMobilIZATION

Task description: Mobilize/Demobilize Drilling Equipment

Site: Peabody 1993 Dry Creek Project Permit Action: 2017 Review Permit/Job#: X199316827

PROJECT IDENTIFICATION

Task #: 002 State: Colorado Abbreviation: None
 Date: 5/2/2017 County: Routt Filename: X168-002
 User: JDM

Agency or organization name: DRMS

EQUIPMENT TRANSPORT RIG COST

Shift basis: 1 per day
 Cost Data Source: CRG Data

Truck Tractor Description: GENERIC ON-HIGHWAY TRUCK TRACTOR, 6X4, DIESEL POWERED, 400 HP (2ND HALF, 2006)

Truck Trailer Description: GENERIC FOLDING GOOSENECK, DROP DECK EQUIPMENT TRAILER (25T, 50T, AND 100T)

Cost Breakdown:

Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons
Ownership Cost/Hour:	\$16.63	\$18.37	\$22.33
Operating Cost/Hour:	\$44.38	\$46.13	\$50.07
Operator Cost/Hour:	\$27.66	\$27.66	\$27.66
Helper Cost/Hour:	\$0.00	\$25.39	\$25.39
Total Unit Cost/Hour:	\$88.67	\$117.55	\$125.45

NON ROADABLE EQUIPMENT:

Machine Description	Weight/ Unit (TONS)	Owner ship Cost/hr/ unit	Haul Rig Cost/hr/unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
SCHRAMM T450WS	0.00	\$83.42	\$88.67	1	\$172.09	\$88.67	\$250.00

Subtotals: **\$172.09** **\$88.67** **\$250.00**

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 * \$649.01
 * two round trips with haul rig:
 Total Roadable Mob/Demob Cost ** \$25.15

** one round trip, no haul rig: _____

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: \$674

COST SUMMARY WORK

Task description: Summary of Remaining Reclamation Tasks

Site: BTU Empire 1994-96 Drilling

Permit Action: 2017 Review

Permit/Job#: X199421400

PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 5/2/2017

County: Moffat

Filename: X214-000

User: JDM

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Seal and Abandon Remaining Water Wells	BOREHOLE	1	30.00	\$15,419.36
002	Mobilize/Demobilize Equipment	MOBILIZE	1	3.42	\$1,022.00
<u>SUBTOTALS:</u>				33.42	\$16,441

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02

Total = \$332.11

Performance bond: 1.05

Total = \$172.63

Job superintendent: 16.71

Total = \$1,220.67

Profit: 10.00

Total = \$1,644.10

TOTAL O & P = \$3,369.51

CONTRACT AMOUNT (direct + O & P) = \$19,810.51

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): 0.00

Total = 0.00

Engineering work and/or contract/bid preparation: 4.25

Total = \$841.95

Reclamation management and/or administration: 5.00

\$990.53

CONTINGENCY: 0.00

Total = \$0.00

TOTAL INDIRECT COST = \$5,201.98

TOTAL BOND AMOUNT (direct + indirect) = \$21,642.98

BOREHOLE SEALING WORK

Task description: Seal and Abandon Remaining Water Wells

Site: BTU Empire 1994-96 Drilling Permit Action: 2017 Review Permit/Job#: X199421400

PROJECT IDENTIFICATION

Task # 001 State: Colorado Abbreviation: None
 #: _____
 Date: 5/2/2017 County: Moffat Filename: X214-001
 User: JDM
 Agency or organization name: DRMS

UNIT COSTS

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 only...94 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

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description: Mobilize/Demobilize Equipment

Site: BTU Empire 1994-96 Drilling Permit Action: 2017 Review Permit/Job#: X199421400

PROJECT IDENTIFICATION

Task #: 002 State: Colorado Abbreviation: None
 Date: 5/2/2017 County: Moffat Filename: X214-002
 User: JDM

Agency or organization name: DRMS

EQUIPMENT TRANSPORT RIG COST

Shift basis: 1 per day
 Cost Data Source: CRG Data

Truck Tractor Description: GENERIC ON-HIGHWAY TRUCK TRACTOR, 6X4, DIESEL POWERED, 400 HP (2ND HALF, 2006)

Truck Trailer Description: GENERIC FOLDING GOOSENECK, DROP DECK EQUIPMENT TRAILER (25T, 50T, AND 100T)

Cost Breakdown:

Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons
Ownership Cost/Hour:	\$16.63	\$18.37	\$22.33
Operating Cost/Hour:	\$44.38	\$46.13	\$50.07
Operator Cost/Hour:	\$27.66	\$27.66	\$27.66
Helper Cost/Hour:	\$0.00	\$25.39	\$25.39
Total Unit Cost/Hour:	\$88.67	\$117.55	\$125.45

NON ROADABLE EQUIPMENT:

Machine Description	Weight/ Unit (TONS)	Owner ship Cost/hr/ unit	Haul Rig Cost/hr/unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
SCHRAMM T450WS	0.00	\$83.42	\$88.67	1	\$172.09	\$88.67	\$250.00

Subtotals: **\$172.09** **\$88.67** **\$250.00**

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: 30.00 miles
 Average Travel Speed: 35.00 mph

Total Non-Roadable Mob/Demob Cost * \$947.02
 * two round trips with haul rig:
 Total Roadable Mob/Demob Cost ** \$75.45
 ** one round trip, no haul rig:

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable 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

COST SUMMARY WORK

Task description: Summary of Remaining Reclamation Tasks

Site: Cottonwood Land Exploration Permit Action: 2017 Review Permit/Job#: X199621900

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)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Seal and Abandon Remaining Monitoring Wells	BOREHOLE	1	70.00	\$22,945.93
002	Mobilize/Demobilize Equipment	MOBILIZE	1	1.14	\$674.00
<u>SUBTOTALS:</u>				71.14	\$23,620

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	<u>\$477.12</u>
Performance bond:	1.05	Total =	<u>\$248.01</u>
Job superintendent:	35.57	Total =	<u>\$2,598.39</u>
Profit:	10.00	Total =	<u>\$2,362.00</u>
		TOTAL O & P =	<u>\$5,685.52</u>
		CONTRACT AMOUNT (direct + O & P) =	<u>\$29,305.52</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>4.25</u>	Total =	<u>\$1,245.48</u>
Reclamation management and/or administration:	<u>5.00</u>		<u>\$1,465.28</u>

CONTINGENCY: 0.00 Total = \$0.00

TOTAL INDIRECT COST = \$8,396.28

TOTAL BOND AMOUNT (direct + indirect) = \$32,016.28

BOREHOLE SEALING WORK

Task description: Seal and Abandon Remaining Monitoring Wells

Site: Cottonwood Land Exploration Permit Action: 2017 Review Permit/Job#: X199621900

PROJECT IDENTIFICATION

Task #: 001 State: Colorado Abbreviation: None
 Date: 5/2/2017 County: Routt Filename: X219-001
 User: JDM

Agency or organization name: DRMS

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 only...94 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

Task description: Mobilize/Demobilize Equipment

Site: Cottonwood Land Exploration Permit Action: 2017 Review Permit/Job#: X199621900

PROJECT IDENTIFICATION

Task #: 002 State: Colorado Abbreviation: None
 Date: 5/2/2017 County: Routt Filename: X219-002
 User: JDM

Agency or organization name: DRMS

EQUIPMENT TRANSPORT RIG COST

Shift basis: 1 per day
 Cost Data Source: CRG Data

Truck Tractor Description: GENERIC ON-HIGHWAY TRUCK TRACTOR, 6X4, DIESEL POWERED, 400 HP (2ND HALF, 2006)

Truck Trailer Description: GENERIC FOLDING GOOSENECK, DROP DECK EQUIPMENT TRAILER (25T, 50T, AND 100T)

Cost Breakdown:

Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons
Ownership Cost/Hour:	\$16.63	\$18.37	\$22.33
Operating Cost/Hour:	\$44.38	\$46.13	\$50.07
Operator Cost/Hour:	\$27.66	\$27.66	\$27.66
Helper Cost/Hour:	\$0.00	\$25.39	\$25.39
Total Unit Cost/Hour:	\$88.67	\$117.55	\$125.45

NON ROADABLE EQUIPMENT:

Machine Description	Weight/ Unit (TONS)	Owner ship Cost/hr/ unit	Haul Rig Cost/hr/unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
SCHRAMM T450WS	0.00	\$83.42	\$88.67	1	\$172.09	\$88.67	\$250.00

Subtotals: **\$172.09** **\$88.67** **\$250.00**

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 * \$649.01
 ** two round trips with haul rig:

Total Roadable Mob/Demob Cost **
 ** one round trip, no haul rig: \$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: **\$674**

COST SUMMARY WORK

Task description: Summary of Remaining Reclamation Tasks

Cottonwood Land/F.C.E.L.
Site: Area

Permit Action: 2017 Review

Permit/Job#: X199621901

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)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Seal and Abandon Remaining Water Monitoring Wells	BOREHOLE	1	155.00	\$50,834.28
002	Mobilize/Demobilize Equipment	MOBILIZE	1	1.71	\$761.00
<u>SUBTOTALS:</u>				156.71	\$51,595

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	<u>\$1,042.22</u>
Performance bond:	1.05	Total =	<u>\$541.75</u>
Job superintendent:	78.36	Total =	<u>\$5,723.83</u>
Profit:	10.00	Total =	<u>\$5,159.50</u>
		TOTAL O & P =	<u>\$12,467.30</u>
		CONTRACT AMOUNT (direct + O & P) =	<u>\$64,062.30</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>4.25</u>	Total =	<u>\$2,722.65</u>
Reclamation management and/or administration:	<u>5.00</u>		<u>\$3,203.12</u>

CONTINGENCY: 0.00 Total = \$0.00

TOTAL INDIRECT COST = \$18,393.06

TOTAL BOND AMOUNT (direct + indirect) = \$69,988.06

BOREHOLE SEALING WORK

Task description: Seal and Abandon Remaining Water Monitoring Wells

Site: Cottonwood Land/F.C.E.L. Area Permit Action: 2017 Review Permit/Job#: X199621901

PROJECT IDENTIFICATION

Task #: 001 State: Colorado Abbreviation: None
 Date: 5/2/2017 County: Routt Filename: X219-001
 User: JDM

Agency or organization name: DRMS

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 only...94 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

Task description: Mobilize/Demobilize Equipment

Site: Cottonwood Land/F.C.E.L. Area Permit Action: 2017 Review Permit/Job#: X199621901

PROJECT IDENTIFICATION

Task #: 002 State: Colorado Abbreviation: None
 Date: 5/2/2017 County: Routt Filename: X219-002
 User: JDM

Agency or organization name: DRMS

EQUIPMENT TRANSPORT RIG COST

Shift basis: 1 per day
 Cost Data Source: CRG Data

Truck Tractor Description: GENERIC ON-HIGHWAY TRUCK TRACTOR, 6X4, DIESEL POWERED, 400 HP (2ND HALF, 2006)

Truck Trailer Description: GENERIC FOLDING GOOSENECK, DROP DECK EQUIPMENT TRAILER (25T, 50T, AND 100T)

Cost Breakdown:

Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons
Ownership Cost/Hour:	\$16.63	\$18.37	\$22.33
Operating Cost/Hour:	\$44.38	\$46.13	\$50.07
Operator Cost/Hour:	\$27.66	\$27.66	\$27.66
Helper Cost/Hour:	\$0.00	\$25.39	\$25.39
Total Unit Cost/Hour:	\$88.67	\$117.55	\$125.45

NON ROADABLE EQUIPMENT:

Machine Description	Weight/ Unit (TONS)	Owner ship Cost/hr/ unit	Haul Rig Cost/hr/unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
SCHRAMM T450WS	0.00	\$83.42	\$88.67	1	\$172.09	\$88.67	\$250.00

Subtotals: **\$172.09** **\$88.67** **\$250.00**

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: 15.00 miles
 Average Travel Speed: 35.00 mph

Total Non-Roadable Mob/Demob Cost * \$723.51
 * two round trips with haul rig:
 Total Roadable Mob/Demob Cost ** \$37.72

** one round trip, no haul rig: _____

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable 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

COST SUMMARY WORK

Task description: Summary of Remaining Reclamation Tasks

Site: Cottonwood Land Co Big Elk Project Permit Action: 2017 Review Permit/Job#: X199821902

PROJECT IDENTIFICATION

Task #: 000 State: Colorado Abbreviation: None
Date: 5/2/2017 County: Routt Filename: _____
User: JDM

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Seal and Abandon Remaining Water Monitoring Wells	BOREHOLE	1	9.00	\$295.85
<u>SUBTOTALS:</u>				9	\$296

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	<u>\$5.98</u>
Performance bond:	1.05	Total =	<u>\$3.11</u>
Job superintendent:	4.50	Total =	<u>\$328.73</u>
Profit:	10.00	Total =	<u>\$29.60</u>
		TOTAL O & P =	<u>\$367.42</u>
		CONTRACT AMOUNT (direct + O & P) =	<u>\$663.42</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>4.25</u>	Total =	<u>\$28.20</u>
Reclamation management and/or administration:	<u>5.00</u>		<u>\$33.17</u>

CONTINGENCY: 0.00 Total = \$0.00

TOTAL INDIRECT COST = \$428.79

TOTAL BOND AMOUNT (direct + indirect) = \$724.79

BOREHOLE SEALING WORK

Task description: Seal and Abandon Remaining Water Monitoring Wells

Site: Cottonwood Land Co Big Elk Project Permit Action: 2017 Review Permit/Job#: X199821902

PROJECT IDENTIFICATION

Task #: 001 State: Colorado Abbreviation: None
 Date: 5/2/2017 County: Routt Filename: X219-001
 User: JDM
 Agency or organization name: DRMS

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 only...94 lb. bag)	.75	200.00	1.00	bag	\$10.55	\$10.55
Seal (5) 2" Wells	Portland cement grout (Bag, material cost only...94 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

COST SUMMARY WORK

Task description: Summary of Remaining Reclamation Tasks

Site: Cottonwood Alluvial GW Permit Action: 2017 Review Permit/Job#: X199821903
Monitoring Program

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)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Seal and Abandon Remaining Water Monitoring Wells	BOREHOLE	1	12.00	\$368.22
<u>SUBTOTALS:</u>				12	\$368

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	<u>\$7.43</u>
Performance bond:	1.05	Total =	<u>\$3.86</u>
Job superintendent:	6.00	Total =	<u>\$438.30</u>
Profit:	10.00	Total =	<u>\$36.80</u>
		TOTAL O & P =	<u>\$486.39</u>
		CONTRACT AMOUNT (direct + O & P) =	<u>\$854.39</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>4.25</u>	Total =	<u>\$36.31</u>
Reclamation management and/or administration:	<u>5.00</u>	Total =	<u>\$42.72</u>

CONTINGENCY: 0.00 Total = \$0.00

TOTAL INDIRECT COST = \$565.42

TOTAL BOND AMOUNT (direct + indirect) = \$933.42

BOREHOLE SEALING WORK

Task description: Seal and Abandon Remaining Water Monitoring Wells

Site: Cottonwood Alluvial GW Monitoring Program Permit Action: 2017 Review Permit/Job#: X199821903

PROJECT IDENTIFICATION

Task #: 001 State: Colorado Abbreviation: None
 Date: 5/2/2017 County: Routt Filename: X219-001
 User: JDM

Agency or organization name: DRMS

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 only...94 lb. bag)	.75	191.00	1.00	bag	\$10.55	\$10.55
Seal (5) 2" Wells	Portland cement grout (Bag, material cost only...94 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

COST SUMMARY WORK

Task description: Summary of Remaining Reclamation Tasks

Site: TCC Coal Exploration

Permit Action: 2017 Review

Permit/Job#: X199920506

PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 5/2/2017

County: Routt

Filename: X205-000

User: JDM

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Seal and Abandon Remaining Water Monitoring Well	BOREHOLE	1	6.00	\$2,790.24
002	Mobilize/Demobilize Equipment	MOBILIZE	1	2.28	\$848.00
<u>SUBTOTALS:</u>				8.28	\$3,638

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02
Performance bond: 1.05
Job superintendent: 4.14
Profit: 10.00

Total = \$73.49

Total = \$38.20

Total = \$302.43

Total = \$363.80

TOTAL O & P = \$777.92

CONTRACT AMOUNT (direct + O & P) = \$4,415.92

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): 0.00

Total = 0.00

Engineering work and/or contract/bid preparation: 4.25

Total = \$187.68

Reclamation management and/or administration: 5.00

\$220.80

CONTINGENCY: 0.00

Total = \$0.00

TOTAL INDIRECT COST = \$1,186.39

TOTAL BOND AMOUNT (direct + indirect) = \$4,824.39

BOREHOLE SEALING WORK

Task description: Seal and Abandon Remaining Water Monitoring Well

Site: TCC Coal Exploration Permit Action: 2017 Review Permit/Job#: X199920506

PROJECT IDENTIFICATION

Task # 001 State: Colorado Abbreviation: None
 #: _____
 Date: 5/2/2017 County: Routt Filename: X205-001
 User: JDM
 Agency or organization name: DRMS

UNIT COSTS

Borehole Description	Sealing/Item Method	Diameter	Length	Quantity	Unit	Unit Cost	Total Cost
Seal Well 99CH01	Portland cement grout (Bag, material cost only...94 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

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description: Mobilize/Demobilize Equipment

Site: TCC Coal Exploration Permit Action: 2017 Review Permit/Job#: X199920506

PROJECT IDENTIFICATION

Task #: 002 State: Colorado Abbreviation: None
 Date: 5/2/2017 County: Routt Filename: X205-002
 User: JDM
 Agency or organization name: DRMS

EQUIPMENT TRANSPORT RIG COST

Shift basis: 1 per day
 Cost Data Source: CRG Data

Truck Tractor Description: GENERIC ON-HIGHWAY TRUCK TRACTOR, 6X4, DIESEL POWERED, 400 HP (2ND HALF, 2006)
 Truck Trailer Description: GENERIC FOLDING GOOSENECK, DROP DECK EQUIPMENT TRAILER (25T, 50T, AND 100T)

Cost Breakdown:

Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons
Ownership Cost/Hour:	\$16.63	\$18.37	\$22.33
Operating Cost/Hour:	\$44.38	\$46.13	\$50.07
Operator Cost/Hour:	\$27.66	\$27.66	\$27.66
Helper Cost/Hour:	\$0.00	\$25.39	\$25.39
Total Unit Cost/Hour:	\$88.67	\$117.55	\$125.45

NON ROADABLE EQUIPMENT:

Machine Description	Weight/ Unit (TONS)	Owner ship Cost/hr/ unit	Haul Rig Cost/hr/unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
SCHRAMM T450WS	0.00	\$83.42	\$88.67	1	\$172.09	\$88.67	\$250.00
Subtotals:					\$172.09	\$88.67	\$250.00

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: 20.00 miles
 Average Travel Speed: 35.00 mph

Total Non-Roadable Mob/Demob Cost * \$798.01
 ** two round trips with haul rig:

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

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable 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**

COST SUMMARY WORK

Task description: Summary of Remaining Reclamation Tasks

Site: Peabody Sage Creek 2011
Exploration Project

Permit Action: 2017 Review

Permit/Job#: X201123102

PROJECT IDENTIFICATION

Task #: 000 State: Colorado Abbreviation: None
Date: 5/2/2017 County: Routt Filename: X231-000
User: JDM

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Seal and Abandon Remaining Monitoring Well	BOREHOLE	1	5.00	\$2,953.86
002	Mobilization/Demobilization of Equipment	MOBILIZE	1	2.95	\$992.00
<u>SUBTOTALS:</u>				7.95	\$3,946

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	<u>\$79.71</u>
Performance bond:	1.05	Total =	<u>\$41.43</u>
Job superintendent:	3.98	Total =	<u>\$290.37</u>
Profit:	10.00	Total =	<u>\$394.60</u>

TOTAL O & P = \$806.11

CONTRACT AMOUNT (direct + O & P) = \$4,752.11

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>4.25</u>	Total =	<u>\$201.96</u>
Reclamation management and/or administration:	<u>5.00</u>		<u>\$237.61</u>

CONTINGENCY: 0.00 Total = \$0.00

TOTAL INDIRECT COST = \$1,245.68

TOTAL BOND AMOUNT (direct + indirect) = \$5,191.68

BOREHOLE SEALING WORK

Task description: Seal and Abandon Remaining Monitoring Well

Site: Peabody Sage Creek 2011 Exploration Project Permit Action: 2017 Review Permit/Job#: X201123102

PROJECT IDENTIFICATION

Task # 001 State: Colorado Abbreviation: None
 #: _____
 Date: 5/2/2017 County: Routt Filename: X231-001
 User: JDM
 Agency or organization name: DRMS

UNIT COSTS

Borehole Description	Sealing/Item Method	Diameter	Length	Quantity	Unit	Unit Cost	Total Cost
Plug Well 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 only...94 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: Mobilization/Demobilization of Equipment

Site: Peabody Sage Creek 2011 Exploration Project Permit Action: 2017 Review Permit/Job#: X201123102

PROJECT IDENTIFICATION

Task #: 002 State: Colorado Abbreviation: None
 Date: 5/2/2017 County: Routt Filename: X231-002
 User: JDM

Agency or organization name: DRMS

EQUIPMENT TRANSPORT RIG COST

Shift basis: 1 per day
 Cost Data Source: CRG Data

Truck Tractor Description: GENERIC ON-HIGHWAY TRUCK TRACTOR, 6X4, DIESEL POWERED, 400 HP (2ND HALF, 2006)

Truck Trailer Description: GENERIC FOLDING GOOSENECK, DROP DECK EQUIPMENT TRAILER (25T, 50T, AND 100T)

Cost Breakdown:

Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons
Ownership Cost/Hour:	\$16.63	\$18.37	\$22.33
Operating Cost/Hour:	\$44.38	\$46.13	\$50.07
Operator Cost/Hour:	\$27.66	\$27.66	\$27.66
Helper Cost/Hour:	\$0.00	\$25.39	\$25.39
Total Unit Cost/Hour:	\$88.67	\$117.55	\$125.45

NON ROADABLE EQUIPMENT:

Machine Description	Weight/ Unit (TONS)	Owner ship Cost/hr/ unit	Haul Rig Cost/hr/unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
SCHRAMM T450WS	0.00	\$83.42	\$88.67	1	\$172.09	\$88.67	\$250.00

Subtotals: **\$172.09** **\$88.67** **\$250.00**

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
 ** two round trips with haul rig:

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

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable 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**