

Document Information Form

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To: DOGM

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Person N/A

Company N/A

Date Sent: N/A

Explanation:

Banning Siding Loadout - Bond Cost Estimate

cc:

File in: C/007, 034, Internal

- Refer to:
- Confidential
 - Shelf
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Folder # 5
ACT 10/15/034

SOLDIER CREEK COAL COMPANY, BANNING SIDING LOAOUT - BOND COST ESTIMATE
ACT/015/034 - SEPTEMBER, 1988 - JRH

BREAKDOWN OF RECLAMATION ACTIVITIES

ITEM	JOB	MATERIAL	EQUIPMENT	ACRES	QUANTITY	UNITS	PROD.	UNITS	COST/UNIT	TOTAL COST
I. DEMOLITION AND REMOVAL										
A. COAL REMOVAL										
				15						
		CAT D8L			12100	YD3	302.5	YD3/HR	\$129.54/HOUR	\$5,181.68
		CAT 950B			12100	YD3	302.5	YD3/HR	\$97.62/HOUR	\$3,904.77
		40T TRAILER			80	HOURS		1	\$64.68/HOUR	\$5,174.09
		LABORER			80	HOURS		1	\$23.65/HOUR	\$1,892.00
		FOREMAN			40	HOURS		1	\$33.65/HOUR	\$1,346.00
SUBTOTAL A. COAL REMOVAL										\$17,498.55
B. STRUCTURES REMOVAL										
CONVEYORS		STEEL			2225	YD3		1	\$4.59/YD3	\$10,212.75
SILOS		STEEL			1785	YD3		1	\$4.59/YD3	\$8,193.15
PLATE ARCHES/TUNNELS		STEEL			1450	YD3		1	\$4.59/YD3	\$6,655.50
TANKS/GARD RAILS/ETC		STEEL			330	YD3		1	\$4.59/YD3	\$1,514.70
SILO FOOTERS/FOUNDATIONS		CONCRETE			100	YD3		1	\$5.94/YD3	\$594.00
BUILDINGS		CONCRETE			170	YD3		1	\$5.94/YD3	\$1,009.80
PADS/CONVEYOR FOOTERS		CONCRETE			110	YD3		1	\$5.94/YD3	\$653.40
RECLAIM TUNNELS		CONCRETE			80	YD3		1	\$5.94/YD3	\$475.20
CONCRETE DISPOSAL ON SITE					460	YDS		1	\$5.10/YD3	\$2,346.00
ASPHALT REMOVAL/DISPOSAL					40000	FT2		1	\$1.48/FT2	\$59,200.00
FENCING					3900	FT		1	\$1.22/FT	\$4,758.00
SUBTOTAL B. STRUCTURES REMOVAL										\$95,612.50
SUBTOTAL I. DEMOLITION AND REMOVAL										\$113,111.05

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ITEM	JOB	MATERIAL	EQUIPMENT	ACRES	QUANTITY	UNITS	PROD.	UNITS	COST/UNIT	TOTAL COST
=====										
II. BACKFILLING AND GRADING										
=====										
BACKFILLING AND GRADING				21.4						
		CAT D8L/RIPPER			40	HOURS		1	\$129.54/HOUR	\$5,181.68
		CAT 950B			40	HOURS		1	\$68.14/HOUR	\$2,725.68
		LS-3400			40	HOURS		1	\$86.80/HOUR	\$3,472.09
		DEERE 410B			40	HOURS		1	\$49.13/HOUR	\$1,965.14
		10YD3 TRUCK			120	HOURS		1	\$59.73/HOUR	\$7,167.14
		LABORERS			80	HOURS		1	\$23.65/HOUR	\$1,892.00
		FOREMAN			40	HOURS		1	\$33.65/HOUR	\$1,346.00
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SUBTOTAL II. BACKFILLING AND GRADING										\$23,749.73
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III. TOPSOIL DISTRIBUTION AND REVEGETATION										
=====										
A. TOPSOIL DISTRIBUTION				21.4						
	RIPPING	CAT D8L/RIPPER		21.4	ACRES		2.33	ACRES/HOUR	\$129.54	\$1,189.79
	SOIL ANALYSIS			21.4	ACRES		1	SAMPLE/ACRE	\$100.00	\$2,140.00
	DISCING	DEERE 301A		21.4	ACRES		3.33	ACRES/HOUR	\$37.37	\$240.15
=====										
SUBTOTAL A. TOPSOIL DISTRIBUTION										\$3,569.94
=====										
B. REVEGETTION				21.4						
	FERTILIZER			21.4	ACRES		0.025	ACRES/LB	\$0.35/ACRE	\$299.60
	SEED			21.4	ACRES		1		\$275.00/ACRE	\$5,885.00
	MULCH			21.4	ACRES		1	ACRES/TON	\$140.00/TON	\$2,996.00
	BROADCAST FERTILIZER			21.4	ACRES		3	ACRES/HOUR	\$35.88/HOUR	\$255.92
	HAND SEEDING			21.4	ACRES		2	ACRES/HOUR	\$23.65/HOUR	\$253.06
	DRILL SEEDING			21.4	ACRES		2	ACRES/HOUR	\$39.08/HOUR	\$418.15
	MULCHING			21.4	ACRES		2	ACRES/HOUR	\$112.17/HOUR	\$1,200.19
	CRIMPING			21.4	ACRES		2	ACRES/HOUR	\$39.08/HOUR	\$418.15
	FOREMAN				16	HOURS		1	\$33.65/HOUR	\$538.40
=====										
SUBTOTAL B. REVEGETATION										\$12,264.46
=====										
SUBTOTAL III. TOPSOIL DISTRIBUTION AN REVEGETATION										\$15,834.40
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 IV. MOBILIZATION AND DEMOILIZATION
 =====

MOBILIZATION AN DEMOBILIZATION 1 LUM SUM 1 \$10,000.00/LS \$10,000.00

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 SUBTOTAL IV. MOBILIZATION AND DEMOBILIZATION \$10,000.00
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 SUBTOTAL FOR ALL ACTIVITIES - \$162,695.17
 =====

 10% MAINTENANCE AND MONITORING COSTS \$16,269.52

 10% CONTINGENCY AND ENGINEERING COSTS \$17,896.47

 SUBTOTAL IN 1988 DOLLARS \$196,861.16

 SUBTOTAL WITH ESCALATION @ 2.3% /YR FOR 3 YEARS (1991 DOLLARS) - \$210,759.39

 TOTAL BOND AMOUNT ESTIMATED TO THE NEAREST \$1,000 IN 1991\$ - \$211,000.00

 III. UNIT COST REFERENCE FOR BOND ESTIMATE:

JOB	COST /UNIT	MEANS # OR REF.	
MISC. DEMOLITION & REMOVAL	\$4.59 /YD3	2.20400100	\$4.59 MISC
CONCRETE	\$5.94 /YD3	2.20400050	\$5.94 CONC
PAVEMENT	\$1.48 /YD2	2.14501700	\$1.48 PAVE
POWERLINES	\$3.62 /FT	[OSM EST.]	\$3.62 POWERLINE
FENCE REMOVAL	\$1.22 /FT	2.14500700	\$1.22 FENCE
GUARDRAIL REMOVAL	\$4.45 /FT	2.14500800	\$4.45 GUARDRAIL
OFF-SITE DISPOSAL	\$8.80 /YD3	2.14505600	\$8.80 DISP
ON-SITE DISPOSAL	\$5.10 /YD3	2.14505500	\$5.10 ONSITE
BROADCAST SEED COST	\$550.00 /ACRE	[DOGM EST.]	\$550.00 BROAD
DRILL SEED COST	\$275.00 /ACRE	[DOGM EST.]	\$275.00 DRILL
HYDRO MULCH	\$140.00 /TON	[DOGM EST.]	\$140.00 HAY
FERTILIZER	\$0.35 /LB	[DOGM EST.]	\$0.35 FERT
MULCH NETTING(INCL. LABOR)	\$1,050.00 /ACRE	[DOGM EST.]	*****NET
SEEDLINGS INCL. LABOR	\$2.25 /STEM	[DOGM EST.]	\$2.50 SEEDLINGS
CUTTINGS INCL. LABOR	\$1.50 /STEM	[DOGM EST.]	\$1.50 CUTTINGS
SOIL ANALYSIS	\$100.00 /SAMPLE	[DOGM EST.]	\$100.00 SOIL
WATER ANALYSIS	\$100.00 /SAMPLE	[DOGM EST.]	\$100.00 WATER
RIPRAP MATERIALS	\$22.00 /YD3	2.33600100	\$22.00 RIPRAP

EQUIPMENT COSTS INCLUDING OPERATOR [BLUE BOOK EQPT. RATES; MEANS OPERATOR COSTS]:

EQUIPMENT	MONTHLY RATE	ADJ. RATE /HR	MAINT /HR	OPERATOR/HR	TOTAL COST/HR
D8 DOZER CAT D8L	\$10,805.00	\$61.39 /HR	\$28.50 /HR	\$28.65	\$118.54
RIPPER ATTACHMENT	\$1,540.00	\$8.75 /HR	\$2.25 /HR		\$11.00
D6 DOZER CAT D6D	\$5,920.00	\$33.64 /HR	\$13.70 /HR	\$28.65	\$75.99
BROADCAST SEEDER/FERTILIZER	\$735.00	\$4.18 /HR	\$3.05 /HR	\$28.65	\$35.88
LOADER CAT. 950-B	\$4,245.00	\$24.12 /HR	\$42.00 /HR	\$31.50	\$97.62
LOADER CAT. 955L	\$4,865.00	\$27.64 /HR	\$11.85 /HR	\$28.65	\$68.14
LOADER CAT. 953	\$4,710.00	\$26.76 /HR	\$11.65 /HR	\$28.65	\$67.06
12YD3 TRUCK	\$3,155.00	\$17.93 /HR	\$16.55 /HR	\$25.25	\$59.73
FARM TRACTOR DEERE 301A	\$945.00	\$5.37 /HR	\$3.35 /HR	\$28.65	\$37.37
DISC ATTACHMENT	\$125.00	\$0.71 /HR	\$1.00 /HR		\$1.71
DRILL ATTACHMENT	\$125.00	\$0.71 /HR	\$1.00 /HR		\$1.71
CRIMPER ATTACHMENT	\$125.00	\$0.71 /HR	\$1.00 /HR		\$1.71
LOADER BACKHOE DEERE 410B	\$2,425.00	\$13.78 /HR	\$6.70 /HR	\$28.65	\$49.13
EXCAVATOR LINK-BELT LS-3400	\$7,410.00	\$42.10 /HR	\$16.05 /HR	\$28.65	\$86.80
GROVE MODEL 68 CRANE	\$5,230.00	\$29.72 /HR	\$12.75 /HR	\$31.00	\$73.47
TRACTOR-TRAILER 40TON CAP.	\$4,475.00	\$25.43 /HR	\$15.00 /HR	\$24.25	\$64.68
MULCH BLOWER (W/3 LABORERS)	\$1,235.00	\$7.02 /HR	\$5.55 /HR	\$99.60	\$112.17
HYDO SEEDER W/LABOR	\$3,750.00	\$21.31 /HR	\$8.00 /HR	\$70.95	\$100.26
COMMON LABORER				\$23.65	\$23.65
FOREMAN				\$33.65	\$33.65
PICKUP	\$575.00	\$3.27 /HR	\$3.70 /HR		\$6.97