

PINE RIVER COAL COMPANY

P.O. BOX 629 HELPER, UTAH 84526 (801) 472-3411

0023

October 17, 1980

Mr. John Nadolski
Office of Surface Mining
Brooks Towers
1020-15th Street
Denver, Colorado 80202

Re: Crandall Canyon Bonding

Dear Mr. Nadolski:

Our estimated numbers for reclamation of the Crandall Canyon site were derived as follows:

Fill and seal shafts - Nominal 20' dia. = 22' dia. excavation;

$$\frac{\text{Pi} \times 11^2 \times 1450}{27} = 20,415 \text{ cu. yds.}$$

Nominal 26' dia. = 28' dia. excavation;

$$\frac{\text{Pi} \times 14^2 \times 1450}{27} = 33,069 \text{ cu. yds.}$$

Cu. Yds. Excavated	=	53,484
Swell 50%	=	26,742
Cu. Yds. to Fill	=	<u>80,226</u>

80,226 Cu. Yds. @ \$2 = \$160,456

Concrete Cap - 20 + 8 = 28' dia.; $\text{Pi} \times 14^2 \times 1 = 616 \text{ Cu. Ft.}$

26 + 8 = 34' dia.; $\text{Pi} \times 17^2 \times 1 = 908 \text{ Cu. Ft.}$

1,524 Cu. Ft.

$\frac{1524}{27} \pm 34 \text{ yds. reinforced concrete @ } \$200 = \underline{\underline{\$6,800}}$

	\$160,456	
	6,800	
	<u>167,256</u>	
10% Cont.	16,723	
	<u>\$183,975</u>	Say: <u>\$185,000</u>



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Buildings & Structures - Removal (Salvage Value) plus.....\$10,000
 Drill & Blast Foundations -
 2 Men @ \$150 x 20 days = \$ 6,000
 Powder = 1,000
 Caps = 1,000
 Bits = 700
 Miscellaneous = 300
 \$ 9,000
 Cont. 10% = 900
 \$ 9,900
 Say: \$10,000

Rip Black Top - Dozer 100 hours @ \$100.....\$10,000
 Scrape & load blacktop - Scraper - 20 days x 8 hrs.
 @ \$60 = \$ 9,600
 F.E. Loader - 100 hrs.
 @ \$54 = 5,400
 \$15,000 \$15,000

Haul Blacktop to Disposal Area -
 12.3 acres x 43,560 x 0.5 x 150# = 1,340 tons
 2000
 1340 tons x 22 miles x 0.65/ton mile = \$19,162 Say: \$20,000

Cover Blacktop with 4' incombustible material -
 12.3 acres x 43,560 = 53,579 sq. ft.
 10' Ht.
 53,579 x 4 = 7,938 cu. yds.
 27
 7,938 x \$3.50 = 27,783 Say: \$30,000

Spread Topsoil & Grade -
 + 1.15 acres x 43,560 x 0.5 x \$8 = \$9,680 Say: \$10,000
 27

Lime & Fertilize (est.) - \$10,000
 Seed, 30#/acre @ 0.8 germ. x 12.3 x \$10/lb. 5,000
 Sow seed, 2 Men x \$150 x 6 Days = 1,800
 Cont. = 180
 1,980 Say: 2,000

Mulch (est.) 2,000
 Track in w/dozer - 40 hrs. @ \$50/hr. 2,000
 126,000

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Maint. & Patching (est.)	\$126,000
	<u>20,000</u>
	146,000
Cont.	<u>19,000</u>
	165,000
Shafts	<u>185,000</u>
TOTAL	\$350,000

It must be obvious that we have estimated the amount of bond to cover the entire planned Crandall Canyon facility (12.3 acres to be disturbed), rather than the initial phase of work for which we have requested expedited clearance.

We do carry liability insurance in the amount of \$500,000 bodily injury, and \$500,000 property damage.

I trust the above information will answer your question. If you have any further questions, do not hesitate to call.

Very truly yours,

PRICE RIVER COAL COMPANY



K. B. Hutchinson
Chief Engineer

KBH:ga