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ACT/007/007 Folder # 200
\$ 15 w/maps etc.

**KAISER
COAL**

KAISER COAL CORPORATION
Sunnyside Coal Mines
P.O. Box 10
Sunnyside, Utah 84539
Telephone (801) 888-4421

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DIVISION OF
OIL, GAS & MINING

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February 17, 1987

Mr. Lowell P. Braxton, Administrator
Mineral Resource Development & Reclamation Program
Utah Division of Oil, Gas & Mining
355 W. North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Re: Diversion Ditch Repair
Sunnyside Mines
ACT/007/007

Dear Mr. Braxton:

A diversion ditch is in place from the main parking lot at the Sunnyside Mine site, around the main buildings area, past a storage area, and terminates near the preparation plant. As improved efforts have been made to direct surface runoff through this ditch, some erosion of the channel has occurred. Kaiser desires to rectify this matter in a proper, but cost containing, manner.

Organizational changes over the last few months have left Kaiser without fully qualified hydrology design personnel. To date, Division staff personnel have been very cooperative in providing limited assistance in this area. Although Kaiser personnel are becoming better qualified, periodically help is still desired. This letter is to request the assistance of Mr. James Fricke in the solution of the erosion problem described above.

Attached is a map and other information about the diversion ditch. Mr. Fricke, on a recent partial inspection, observed the situation and is, therefore, familiar with it. The help which is requested is in the design of check dams in the ditch - including the number of dams, their locations, their height, and the construction materials to be used.

Kaiser will appreciate the assistance and, once a proper design is reached, will promptly install the structures. Should you or Mr. Fricke have any questions on this, please do not hesitate to contact me.

Sincerely,

Carl W. Winters
Carl W. Winters

attach

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KAISER COAL CORPORATION
SUNNYSIDE COAL MINES
DIVERSION DITCH CALCULATIONS

1-15-87

STATION	STATION	RELATIVE BANK ELEVATION	SLOPE OF GROUND	RELATIVE DITCH ELEVATION	SLOPE OF DITCH	DEPTH OF DITCH	WIDTH OF DITCH
0+00	0+00	98.55		97.10		1.45	4.3
			-6.9		-2.0		
0+22	0+22	97.03		96.67			2.9
			-5.0				
0+32	0+32	96.53			-6.4		
0+36	0+36			95.77			7.0
			-5.5		-7.3		
0+65	0+65	94.71		93.64		1.07	2.1
			-2.5		-2.7		
1+00	1+00	93.84		92.71		1.13	2.8
			-2.2		-2.6		
1+50	1+50	92.75		91.40		1.35	2.9
			-3.7		-2.6		
2+00	2+00	90.88		90.11		0.77	1.7
					-71.0		
2+01	2+01			89.40			2.2
			-4.7		-5.1		
2+50	2+50	88.51		86.89		1.62	1.1
			-2.9		-4.0		
3+00	3+00	87.04		84.87		2.17	1.8
			-5.0		-4.2		
3+50	3+50	84.52		82.76		1.76	1.8
			-2.4		-3.8		
4+00	4+00	83.30		80.86		2.44	1.5
			-4.2		-1.8		
4+50	4+50	81.20		79.95		1.25	2.8
			-3.6		-2.0		
5+00	5+00	79.42		78.93		0.49	4.5
			-2.7		-3.9		
5+50	5+50	78.07		76.98		1.09	3.3
			-3.2		-3.7		
6+00	6+00	76.46		75.12		1.34	2.8
			-4.9		-3.6		
6+50	6+50	74.01		73.34		0.67	3.4
			-2.7		-3.8		
7+00	7+00	72.64		71.46		1.18	3.3
			-2.9		-2.4		
7+50	7+50	71.20		70.24		0.96	3.8
			-2.8		-3.0		
8+00	8+00	69.78		68.76		1.02	3.8

8+50	8+50	67.90	-3.8	66.71	-4.1	1.19	3.4
9+00	9+00	66.14	-3.5	65.06	-3.3	1.08	3.3
9+50	9+50	64.26	-3.8	63.56	-3.0	0.70	3.2
10+00	10+00	63.13	-2.3	61.92	-3.3	1.21	3.0
10+50	10+50	61.11	-4.0	60.03	-3.8	1.08	2.8
11+00	11+00	58.77	-4.7	58.06	-3.9	0.71	3.6
11+50	11+50	57.45	-2.6	56.54	-3.0	0.91	2.5
12+00	12+00	56.13	-2.6	55.31	-2.5	0.82	5.3

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