

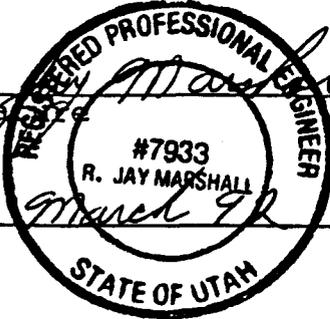
CERTIFICATION REPORT

On 23 March 92, 1992, an inspection of General Coal Companies, sedimentation pond # 1 revealed the following:

- A. The pond has been constructed and maintained in accordance with the approved plan.
- B. The pond's dam appeared sound with no signs of instability or hazardous condition.
- C. The ~~water~~^{ICE} evaluation was 7776 feet. The water depth was FROZEN feet.
- D. The existing storage capacity is 1.04 acre-feet which is greater than the .95 acre-feet required by the approved plan.
- E. The pond is inspected weekly for structural problems.
- F. Comments: A) Pond needs cleaning, will be scheduled during construction season 1992
B) Fresh snow covering pond and adjacent areas.
C) Some spring runoff into west end of pond.

I have performed the above inspection on this pond and do hereby certify it to be a true and accurate representation of the pond at this time.

Signature R. Jay Marshall
Date 30 March 92



REGISTERED PROFESSIONAL ENGINEER
#7933
R. JAY MARSHALL
STATE OF UTAH

ANNUAL MAINTENANCE INSPECTION CERTIFICATION

This certification shall be submitted to the Division as part of the "Annual Report".

1. I hereby certify, in accordance with R645-301-514.310 through R645-301-514.313 and others as applicable, that with respect to the following facility.

Name of Permittee GENWAL COAL CO. Permit No. ACT/015/032

Mine Name CRANDALL CANYON MINE

which is a (check one)

- temporary water impoundment
- permanent water impoundment
- processing waste impoundment

2. I, or persons under my supervision, have conducted adequate inspections of the maintenance of the structure; and
3. The maintenance has been performed in accordance with the Utah State Coal Program; and
4. The attached report is certified in accordance with the rules of professional conduct promulgated by the Utah Board of Examiners for Engineers; and
5. The attached report addresses the following points:
 - a. any appearances of instability, structural weaknesses or other hazardous conditions;
 - b. depth and elevation of impoundment water;
 - c. existing storage capacity;
 - d. existing or required monitoring procedures and instrumentation; and
 - e. any other aspects of the structure affecting stability.

CERTIFICATION REPORT

On 15 Jan, 199~~2~~³, an inspection of Genwal
Coal Companies, Area No. ___'s sedimentation pond #1 revealed
the following:

- A. The pond has been constructed and maintained in accordance with the approved plan.
- B. The pond's dam appeared sound with no signs of instability or hazardous conditions.
- C. The ~~water~~^{ICE} elevation was 7778 feet. The water depth was Frozen feet.
- D. The existing storage capacity is 1.04 acre-feet which is greater than the .95 acre-feet required by the approved plan.
- E. Ponds are inspected weekly for structural problems and pH levels. Bi-monthly sampling of discharge is performed with analysis results submitted monthly. U.P.D.E.S. and DOGM requirements are followed during sampling, analysis, and reporting.

Based on this field inspection, pond #1 has been certified as required by R645-301-514.310 through R645-301-514.313. A "Certification of Maintenance of Dams and Embankments" is attached.

Affix seal of engineer making this certification. All data in the seal must be legible.



12/31/92

POND INSPECTION

DATE	TIME	DECANT		CONTROL		INSPECTED BY	IRRIGA.	PRECIP.
		LEVEL	DISCHARGE	DEVICE	DIKE			
10-14-91	800	OK	OK	OK	OK	L.B.		
10-21-91	800	OK	OK	OK	OK	L.B.		
10-28-91	830	OK	OK	OK	OK	L.B.		
11-4-91	800	OK	OK	OK	OK	L.B.		
11-11-91	800	OK	OK	OK	OK	L.B.		
11-18-91	800	OK	OK	OK	OK	L.B.		
12-2-91	830	OK	Frozen			L.B.		
12-9-91	830		Frozen			L.B.		
12-16-91	800		Frozen			L.B.		
12-23-91	800		Frozen			L.B.		
12-30-91	800		Frozen			L.B.		
1-2-92	800		Frozen			L.B.		
1-6-92	800"		Frozen			L.B.		
1-13-92	800"		Frozen			L.B.		
1-20-92	800"		Frozen			L.B.		
1-27-92	800"		Frozen			L.B.		
2-3-92	800"		Frozen			L.B.		
2-10-92	800"		Frozen			L.B.		
2-17-92	800"		Frozen			L.B.		
2-24-92	800"		Frozen			L.B.		
3-2-92	800"		Frozen			L.B.		
3-9-92	800"		Frozen			L.B.		
3-16-92	830"		Frozen			L.B.		
3-23-92	800"	OK	OK	OK	OK	L.B.		
3-30-92	800"	OK	OK	OK	OK	L.B.		
4-6-92	800"	OK	OK	OK	OK	L.B.		
4-13-92	800"	OK	OK	OK	OK	L.B.		
4-20-92	830"	OK	OK	OK	OK	L.B.		
4-27-92	800	OK	OK	OK	OK	L.B.		
5-4-92	800"	OK	OK	OK	OK	L.B.		
5-11-92	830	OK	OK	OK	OK	L.B.		
5-18-92	800	OK	OK	OK	OK	L.B.		
5-26-92	800"	OK	OK	OK	OK	L.B.		
6-1-92	800"	OK	OK	OK	OK	L.B.		
6-8-92	800"	OK	OK	OK	OK	L.B.		
6-15-92	800"	OK	OK	OK	OK	L.B.		
6-22-92	830"	OK	OK	OK	OK	L.B.		
6-29-92	8:00	OK	OK	OK	OK	L.B.		
- Vacation -								
7-13-92	800"	OK	OK	OK	OK	L.B.		
7-20-92	800"	OK	OK	OK	OK	L.B.		
7-27-92	800"	OK	OK	OK	OK	L.B.		
8-3-92	800"	OK	OK	OK	OK	L.B.		
8-17-92	830AM	OK	OK	OK	OK	L.B.		
8-25-92	830AM	OK	OK	OK	OK	L.B.		
ID#42-01718-31	92	OK	OK	OK	OK	L.B.		

015/032

PIEZOMETER READINGS

DATE	WATER LEVEL	WATER DEPTH	INITIALS
June 10-1989	33'	13"	L.B.
Sept 5-1989	33'	13 1/2"	L.B.
Dec 15-1989	33'	13"	L.B.
Feb 7-1990	33'	12 1/2"	L.B.
April 23-1990	33'	13"	L.B.
July 14-1990	33'	12"	L.B.
Oct 18-1990	33'	11"	L.B.
Jan 20-1991	33'	11"	L.B.
May 25-91	33'	12 1/2"	L.B.
Sept 12-91	33'	13 1/2"	L.B.
Jan 15-92	33'	13"	L.B.
April 13-92	33'	13 1/2"	L.B.

~~from~~ We are using a new measuring device
 Slope Indicator
 Water level indicator June 11-92

DATE	WATER LEVEL	WATER DEPTH	INITIALS	
June 11-92	33'	31.8	1.2	L.B.
June 16-92	33'	31.9	1.1	L.B.
June 23-92	33'	31.9	1.1	L.B.
6-29-92	33'	31.9	1.1	L.B.
7-7-92	33'	31.7	1.3	L.B.
July 17-92	33'	31.2	1.8	L.B.
July 31-92	33'	31.3	1.7	L.B.
July 27-92	33'	31.5	1.5	L.B.
Aug 7-92	33'	31.5	1.5	L.B.
Aug 17-92	"	31.75	"	L.B.
Aug 25-92	"	31.8	1.5	L.B.
8-31-92	"	31.5	1.5	L.B.
9-14-92	"	31.4	1.6	L.B.
9-23-92	"	31.4	1.6	L.B.
10-5-92	"	31.4	1.6	L.B.
10-12-92	"	31.6	1.4	L.B.
10-20-92	"	31.5	1.5	L.B.
10-26-92	"	31.5	1.5	L.B.
11-2-92	"	31.6	1.4	L.B.
11-9-92	"	31.7	1.3	L.B.
11-16-92	"	31.7	1.3	L.B.
11-23-92	"	31.6	1.4	L.B.
11-30-92	"	31.6	1.4	L.B.
12-7-92	"	31.6	1.4	L.B.
12-15-92	"	31.6	1.4	L.B.
12-21-92	"	31.5	1.5	L.B.
12-29-92	"	31.6	1.4	L.B.
1-4-92	"	31.6	1.4	L.B.