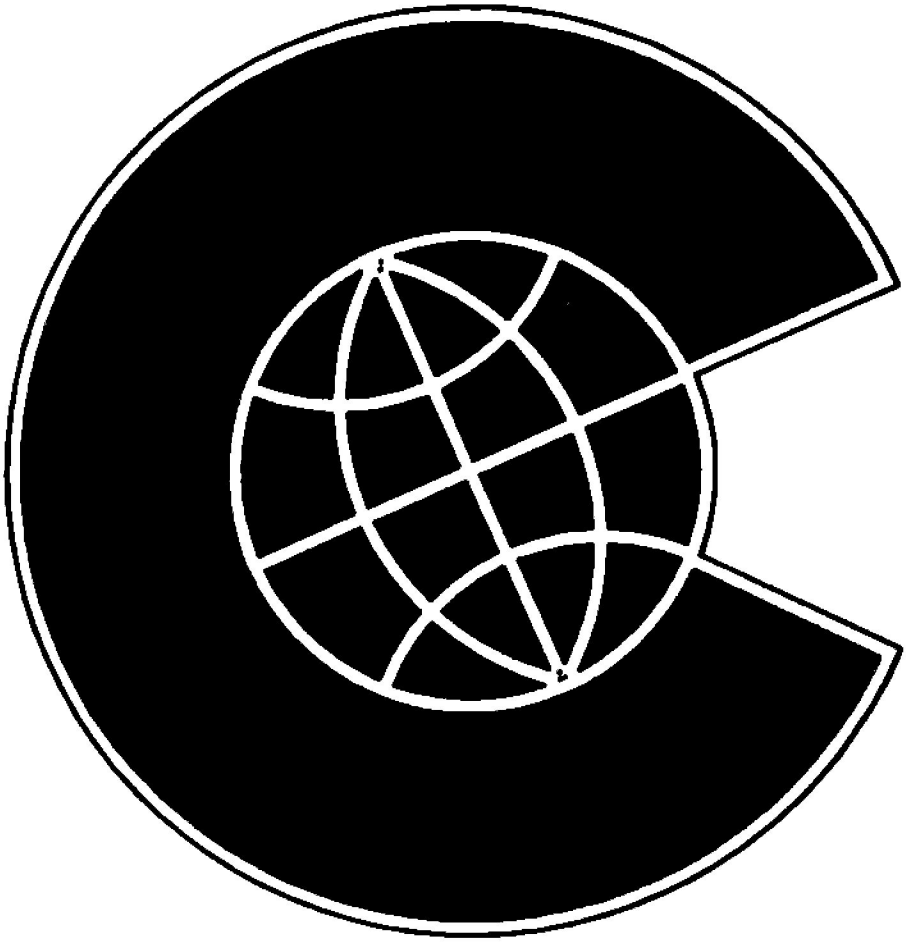
SOLDIER CREEK COAL

ANNUAL REPORT

1994

ANNUAL REPORT

SOLDIER CREEK COAL COMPANY



1994

Coastal
The Energy People

April 12, 1995

James Carter
Utah Coal Regulatory Program
Division of Oil, Gas & Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Re: Annual Report - Soldier Creek Coal Company

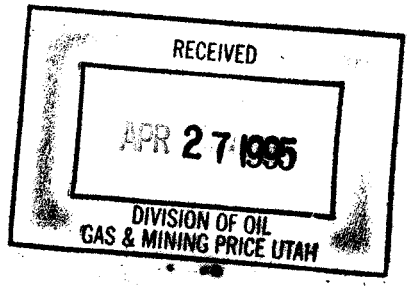
Dear Mr. Carter:

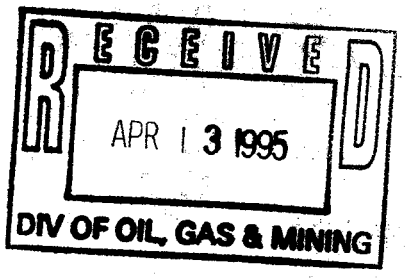
Attched is a copy of the 1994 Annual Report for the Soldier Creek Coal Company Soldier Canyon Mine and Banning Loadout. The information included is thought to be complete as requested. If there are any questions please contact Barry Barnum at (801) 636-2669.

Sincerely,

Barry Barnum for

Rick Olsen
President,
Soldier Creek Coal Company





Utah Fuel Company
A SUBSIDIARY OF THE COASTAL CORPORATION
P O BOX 719 • HELPER UT 84526-0719 • 801 637-7925 • FAX 801 637-7929 • SALT LAKE 801 596-7111

COAL MINING AND RECLAMATION OPERATIONS FOR 1994

(Must be submitted to the Division by April 14, 1995)

State of Utah
Department of Natural Resources
Division of Oil, Gas and Mining
3 Triad Center, Suite 350
355 West North Temple
Salt Lake City, Utah 84180-1203
(801) 538-5340

Permittee: Soldier Creek Coal Company

Mine Name: Soldier Canyon Mine & Banning Loadout

Mailing Address: P.O. Box 1029, Wellington, UT 84542

Company Representative: R.T. Olsen

Resident Agent: C.T. Corporation System

Permit Number: Act/007/018, Act/007/034

MSHA ID Number: 42 - 00077, 42 - 01756

Date of Initial Permanent Program Permit: June 10, 1985, Revised February 3, 1987

Date of Permit Renewal: February 3, 1997

Quantity of Coal Mined (tonnage) 1994: 583,696

Attach Updated Mine Sequence Map(s) showing mine development through December 31, 1994. (Same as Lease Royalty Payment Map and/or MSHA Progress Map)

All monitoring activities during the report period to be submitted with this report (including, but not limited to):

A. General

1. **Discuss anomalies, missing data and monitoring changes made throughout the year.**
2. **Summarize any corrective actions and the results that may have occurred during the year.**

B. Water Monitoring Data:
Groundwater Summary

1. **Mine Discharge**
   a. **Summarize the total annual discharge from mine water discharge points and breakdown on a monthly basis for each site.**
   b. **Discuss the past five years of data comparing changes in discharge. (Include in the discussion elements encountered during the year such as mining rate, location of faults or large in-mine flows during the year.)**
   c. **Discuss trends, if existent, and exceedence in water quality parameters. A correlation with flow could provide additional information.**

A. General

1. No anomalies, missing data or monitoring changes were know to have occured during 1994.

B. Water Monitoring Data:
Water Monitoring data for the Soldier Canyon Mine and Banning Loadout are contained on the enclosed diskette in Lotus format.

Gave Dick to Ken Wyatt
4/9/95

C. Summarized Water Monitoring Data:

Summaries of the water monitoring data are contained on the diskette located in Section B. of this report.

D. Climatological Data:

The Soldier Canyon Mine and Banning Loadout do not collect climatological data. However, annual Air Pollution Source Evaluation Reports for both Soldier Canyon Mine and Banning Loadout are contained in Section J. of this report.

E. Subsidence Monitoring:

Attached is the report of the annual subsidence survey at Soldier Canyon. The results of the survey were used to develop two maps which show subsidence; Drawing C179 for the Sunnyside Seam and Drawing D378 for the Rock Canyon Seam. A copy of each of these maps will be forwarded to the Division under separate cover for insertion into this report. Sheet protectors have been provided in this section to hold the maps.

CF - 10/6/94

October 15, 1994

David Spillman
Coastal States Corporation
Soldier Canyon Mine
P.O. Box I
Price, Utah 84501

Dear Dave,

Enclosed please find the results of our 1994 Subsidence Monitoring Survey and the results of our Aerial Photography Control Survey. I have also enclosed a print out from the SDR of the entire 1994 survey and an Invoice for all work performed.

Not listed with either set of coordinates are the coordinates and elevation of the control point # 135 on the concrete ditch near the truck loadout the coordinates and elevation are as follows:
Northing = 99,490.448 Easting = 51,107.533 El. = 6713.70

We enjoyed seeing everyone again and appreciate the opportunity that you have given us to work for you. If there is anything else you need or if there is any problem with the information we have provided please call us at (801) 423-1040.

Sincerely,

Barry L. Prettyman

Barry L. Prettyman
R.L.S. 166406

COASTAL STATES CORPORATION
SOLDIER CANYON MINE
1994 SUBSIDENCE MONITORING SURVEY

POINT NO.	NORTHING	EASTING	ELEVATION	COMMENTS
92-1SS	103,218.315	43,526.189	7816.48	
113-SS	102,787.415	44,216.472	7755.74	
93-1SS	101,962.348	44,206.627	7734.25	
93-2SS	101,119.858	44,511.421	7739.32	
112-SS	100,663.911	44,629.446	7691.61	
92-3SS	106,594.076	52,863.582	6989.59	
15-SS	99,262.782	51,474.378	6877.09	
87-0SS	100,460.335	51,558.248	6776.08	
87-1SS	101,584.857	52,049.851	6873.83	
3044	103,268.100	52,399.602	6931.11	
106-SS	102,617.959	52,214.477	6864.18	
36-SS	104,940.490	52,460.190	6999.71	
87-47SS	102,402.594	55,048.003	7479.92	
92-2SS	103,573.878	54,788.110	7802.79	
3046	104,115.702	55,479.559	8052.38	

F. Vegetation Data or Revegetation Success Monitoring:

Soldier Creek Coal Company

1. Field Sites

On August 31, 1994, the "New Fan Site Field Trial" was monitored by Paul Baker of UDOGM and Keith Zobell of Coastal States Energy Company. Transects 1, 4, 5, 8, and 10 were monitored with 100 readings per transect being taken. Results of this monitoring are presented in Tables 1 and 2.

The field trial sites for the "Sewage Lagoon" and "Topsoil Stockpile" were also visited. However, no monitoring was done at these sites.

At the conclusion of the monitoring at the "New Fan Site" and the visit to the "Sewage Lagoon" and "Topsoil Stockpile" sites the following conclusions were mutually agreed upon:

- The "New Fan Site Field Trial" should be terminated since the site has demonstrated that the area is reclaimable and the vegetation is approaching the high stages of plant succession.

- The "Sewage Lagoon Field Trial" should be terminated. The sewage lagoon site itself has an excellent stand of vegetation and shows no sign of erosion. The field trial area located outside the fenced in sewage lagoon area has been basically destroyed as it is located in a livestock driveway.

- The "Topsoil Stockpile Site Field Trial" should be terminated. The topsoil stockpile is well vegetated and shows no sign of erosion and it is intuitive that this site is also approaching the upper stages of plant succession.

Overall it was felt that all of these sites have done well and have served their intended purpose.

TABLE 1

SPECIES	TRANSECT				
	1	4	5	8	10
Crested Wheatgrass	40	27	28	41	35
Bluebunch Wheatgrass	1	-	2	-	-
Ranger Alfalfa	24	18	21	15	15
Mountain Big Sagebrush	-	-	-	2	-
Rabbitbrush	-	-	-	-	4
Kochia	-	-	-	2	-
Poverty Weed	-	-	-	-	3
Litter	22	34	28	26	26
Rock	11	18	11	8	10
Bare Ground	2	3	10	6	7

TABLE 2

SPECIES	% OF TOTAL OBSERVATIONS	% OF TOTAL VEGETATIVE COVER
Crested Wheatgrass	34.2	62.0
Bluebunch Wheatgrass	0.6	1.0
Ranger Alfalfa	18.6	33.0
Mountain Big Sagebrush	0.4	1.0
Rabbitbrush	0.8	1.0
Kochia	0.4	1.0
Poverty Weed	0.6	1.0
Subtotal Vegetative Cover	55.6	100.0
Litter	27.2	
Rock	5.8	
Bare Ground	11.4	

2. Anderson Ranch Reservoir Exploration Road

This exploration road was reclaimed during September 1994. The seeding method, seed mix, and reclamation techniques used are shown in the attached plan entitled "Reclamation and Enhancement Plan, Soldier Creek Coal Company: Anderson Ranch Reservoir Exploration Road." Approximately 1.9 acres were seeded. The area received good moisture shortly after the work was done. Inspection of the site in mid-October showed good germination.

Banning Loadout

The area located adjacent to and north of the substation was reseeded in the late fall of 1994. The area was classified as a ASCA area and containes 0.43 acres. The area was roughened and then seeded with the seed mix approved in the Banning M&RP. The area was mulched with approximately 2,000 pounds per acre of wood fiber and anchored with a chemical tacifier. The area received good moisture which resulted in good germination during the late fall.

RECLAMATION AND ENHANCEMENT PLAN

SOLDIER CREEK COAL COMPANY: ANDERSON RANCH RESERVOIR EXPLORATION ROAD

RECLAMATION AND ENHANCEMENT PLAN

SOLDIER CREEK COAL COMPANY: ANDERSON RANCH RESERVOIR EXPLORATION ROAD

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OBJECTIVE

LOCATION AND SITE DESCRIPTION

SCOPE

METHODOLOGY

TABLE 1 SEED MIXES

RECLAMATION AND ENHANCEMENT PLAN

Objective: The implementation of reclamation on 1.9 acres of disturbance associated with the abandoned Anderson Ranch Reservoir exploration road

The road branches off on the west side of the access road leading from the Dead Man road, north of Wellington in Carbon County. 1.9 acres comprises the total extent of reclamation scheduled for the fall season of 1994.

The primary objective of the actual reclamation is to establish a diverse vegetative cover that will blend into the existing topography and will accomplish the following:

1. A site stable enough to allow the establishment of vegetation.
2. Minimize the loss of material from the disturbed area and thus decreasing adverse sediment to adjacent drainages and the reservoir.
3. To provide a valuable source of forage for both domestic and wildlife grazing.
4. To eliminate an aesthetically negative image of the area and replace it with an enhanced area or at least an anonymous landscape which blends into the surrounding undisturbed areas.
5. Return disturbance to approximate original contour.

In order to accomplish all of the above, each of the following areas are addressed:

The hydrology of the area and associated remedial action necessary to insure stability.

What probably existed on the site prior to disturbance.

Top soil requirements: fertilization and redistribution.

Recontouring: road cut eradication and soil placement.

Revegetation: methodologies, materials and procedures.

Each of the above will be addressed in Phase 1, Earthwork or Phase 2, Revegetation. It is important to note that each is an integral part of the others and should not be considered independently, but must be considered as progressive steps to accomplish the total end results.

Location and Site Description:

The site is located in southeastern Utah approximately 4 miles northeast of Wellington (see Exhibit 1). The disturbance constitutes 1.9 acres, 2112 linear feet of exploration road ranging in width from 20 to 40 feet. The entire area has a distinct characteristic in that it is in the same ecological zone, described as Pinyon-Juniper, bordering on transitional on the north aspects, elevation range from 5,900 feet to 6,200 feet and as such can be addressed with a single prescription relative to both earthwork and revegetation. The only exception to this is a small portion of the road that is more mesic due to the elevated water table associated with its close proximity to the reservoir

In order to achieve the desired reclamation, the entire site will need the balance of the grading implemented, a suitable growth media spread over the surface, and revegetation.

SCOPE:

The area is to be reclaimed in such a manner as to achieve a diverse vegetative cover compatible with the adjacent undisturbed area. At the same time, reclamation is to be accomplished to facilitate the landowner's desires for future use for wildlife and domestic grazing, while eliminating all adverse effects of run off into undisturbed adjacent drainages and the reservoir. While accomplishing these goals, the end result is geared toward enhancement both for productivity and diversity for wildlife and

domestic animal use.

In the shortest possible time frame, (1 growing season), the negative visible impacts of the construction should be totally alleviated and in a relatively short time (2 to 3 growing seasons) the area should not only be compatible with adjacent undisturbed areas, but should be more attractive in that the intent of reclamation will be to emphasize the more productive and aesthetically pleasing varieties of indigenous vegetation.

To achieve these goals, Mr. Dave Spillman and Mr. Keith Zobell of Soldier Creek Coal Company and Mr. Mel Coonrod from Environmental Industrial Services, inspected the property on August 16, 1994. The following reclamation plan is a result of that inspection and the composite input of all parties.

METHODOLOGY

Phase 1 - Earth Work: Road Disturbance

The road (2112 linear feet) will involve the use of a 220 K trackhoe. The road surface will be pulled back to the pre-construction grade. The earth work will be accomplished by utilizing a large track hoe in combination with the hydromulcher. Starting at the top of the road, the trackhoe will pull the downcast material up onto the road surface attempting to eliminate the the cut bank for approximately 200 feet in a single stretch. This area will be hand seeded. Utilizing a hose line from the hydroseeder, the "pock" marked road will then be hydromulched using the ratio of materials as described under the revegetation section. The progress will continue in 200 foot stretches to the end of the road. This is done in such a manner as to maximize both the stability of the denuded area as well as salvage as much existing vegetation as possible. This will be accomplished by leaving the area "rough" maximizing highs

and lows to trap surface runoff. This methodology maximizes the establishment of vegetation in as much as it creates a favorable microclimate in offering solar protection while at the same time trapping surface water. The roughened area will naturally level itself over a period of 3 to 4 years and will effectively blend back into the pre-disturbance topography to such a degree that all evidence of the road should be effectively mitigated. The trackhoe will also be utilized to plant clumps of existing vegetation adjacent to the road onto the recontoured road. This serves to greatly increase species diversification, instant revegetation and a viable seed source that will supplement the next phase of reclamation.

The area can be further stabilized with large rocks pulled back to form a natural appearing surface, these rocks can be placed to facilitate landscaping and help modify the microclimate for some of the more tolerant plant species. This work will have to be implemented with a trackhoe with a minimum of 16 feet boom. The entire site will then be ripped to a depth of 12 to 18 inches and scarified with the teeth of the hoe. A crawler tractor will be utilized to rip the surface to a depth of 12 inches in order to minimize surface compaction. On slopes of excess of 30 degrees, the trackhoe will be used to scarify and "pock" mark the top 6 inches to 8 inches of soil. This roughing of the soil effectively reduces the potential for erosion in creating small catch basins. This in turn traps moisture both rain and snow creating a more mesic site that facilitates both plant establishment and growth.

All natural drainages will be reestablished to their aprroximate original configurations. Wherever feasible, logs, large rocks, dead limbs etc., will be dragged onto

the reclaimed road surface to act as a barrier to domestic stock, motor vehicles etc. After hydromulching, a number of large rocks (M-D50 12") will be placed in the drainage to dissipate potential erosion. The existing lower silt fences will remain and be maintained until vegetation is established.

Phase 2 - Revegetation

Working in conjunction with the tractors will be a 2,000 gallon Bowie hydroseeder. Seed (as prescribed by the UDOGM and Soldier Creek Coal Company) will be broadcast at twice the drill rate over the recontoured road, then oversprayed with a minimum of 2,000 lbs. of wood fiber mulch per acre. The mulch will incorporate 100 lbs. of a dry Tac per acre and 100 lbs. of 16-16-8 fertilizer per acre. In addition to the above, on the more severe sites, pine boughs will be strewn over the mulch. The boughs enhance moisture retention through solar protection and discourage overgrazing by both domestic stock and wildlife for up to 3 years.

The seed mix is composed of a diverse mixture of fast growing grasses and forbs plus yellow sweet clover to act as a cover crop and a stabilizing force to prevent erosion. The cover crop is designed to provide shade for the permanent seed mix to become established; in this area it is also necessary to form a root mass that will stabilize and bind the soil to lessen potential erosion (see Table 1; Seed Mix).

Summation:

The goal of the reclamation is to not only restore the area to a pre-disturbance condition, but to a large degree, enhance the land to better serve its principle purpose as a mule deer habitat. The steps outlined above have proven successful on a number of areas similar to this one and offers an excellent chance of total

reclamation on a one time application. Success of this project to some degree will depend on favorable weather, and to a large degree on protection from adverse grazing by domestic sheep for a period of one year.

Schedule of Completion of Contract:

Mobilization - 2 days of notification
Work Commence - 3 days of notification
Average 200 linear feet per calendar day (weather permitting) to completion.
Reclamation completed - 13 days from notification

Total time - 15 calendar days

Weather will be a limiting factor. Excessive snow and/or rain, resulting in overly wet conditions will delay or stop the project.

Prepared by:
Environmental Industrial Services
4855 N. Spring Glen Road
Helper, Utah 84526

TABLE 1
SEED MIX

SPECIES	POUNDS PLS/ ACRE
Shadscale	3.0
Black Sage	0.5
Rabbitbrush	1.0
Fourwing Saltbrush	2.0
Western Wheatgrass	2.0
Indian Ricegrass	2.0
Slender Wheatgrass	1.0
Intermediate Wheatgrass	1.0
Gooseberry Globemallow	0.5
Lewis Flax	0.5
Pacific Aster	0.25
Great Basin Wildrye	1.0
Yellow Sweet Clover	0.5

If available approximately 250 pinyon pine tublings per acre may be planted at a later date.

G. Annual Impoundment Certification:

There are three impoundments associated with the Soldier Canyon Mine and Banning Loadout: the mine sediment pond, the sewage lagoon and the loadout sediment pond. Inspection certifications for all three impoundments are included herein.

March 30, 1995

I, Barry J. Barnum, do certify that on March 28, 1995, I personally inspected the sedimentation pond located at the Soldier Canyon Mine, and it:

1. Has been basically constructed and maintained as designed, and in accordance with the approved plan and R645-301-533.

2. This impoundment meets the SCS Class A criteria in TR60.

3. Is monitored according to UPDES Permit No. UT-0023680

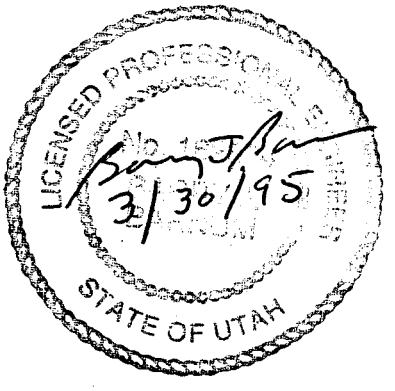
4. The overflow elevation is 6649.5 feet. The maximum observed depth of water for the past year 1.5 feet.

5. The capacity of the pond is 3.3 acre feet.

6. No fires have occurred in the construction material.

7. No hazardous conditions or instability of the dam or embankment have been detected.

Barry J. Barnum
Registered Professional Engineer
Utah Registration No. 162604



March 30, 1995

I, Barry J. Barnum, do certify that on March 28, 1995, I personally inspected the sedimentation pond located at the Banning Loadout associated with the Soldier Canyon Mine, and it:

1. Has been basically constructed and maintained as designed, and in accordance with the approved plan and R645-301-533.

2. This impoundment meets the SCS Class A criteria in TR60.

3. Is monitored according to UPDES Permit No. UT-0040000.

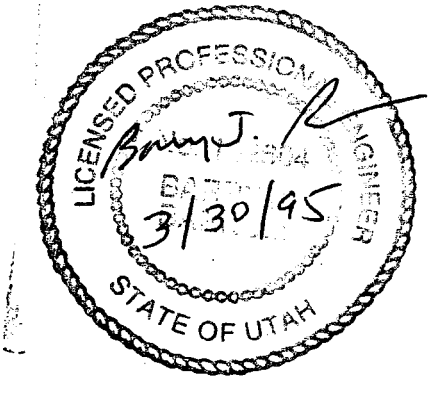
4. The overflow elevation is 5495.2 feet. The maximum observed depth of water for the past year 0.0 feet.

5. The capacity of the pond is 1.45 acre feet.

6. No fires have occurred in the construction material.

7. No hazardous conditions or instability of the dam or embankment have been detected.

Barry J. Barnum
Registered Professional Engineer
Utah Registration No. 162604



March 30, 1995

I, Barry J. Barnum, do certify that on March 28, 1995, I personally inspected the sewage lagoon associated with the Soldier Canyon Mine, and it:

1. Has been basically constructed and maintained as designed, and in accordance with the approved plan and R645-301-533.

2. This impoundment meets the SCS Class A criteria in TR60.

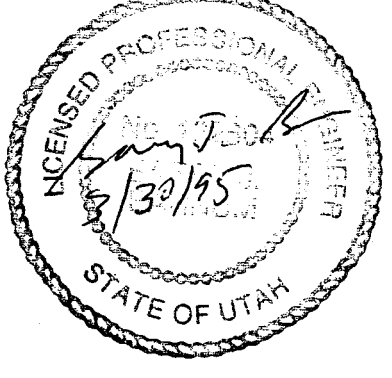
3. The top of impounded water is approximately 3.8 feet below the top of the dike.

4. The capacity of the pond is 2.1 acre feet.

5. No fires have occurred in the construction material.

6. No hazardous conditions or instability of the dam or embankment have been detected. Large brush growing on the dike, especially around the south-west corner of the pond should be removed.

Barry J. Barnum
Registered Professional Engineer
Utah Registration No. 162604



H. Annual Overburden, Spoil, Refuse, Roof, Floor, and Mid-Seam Data:

The Banning permit requires that samples of coal be analyzed for toxicity on an annual basis. The sample analyses for 1994 are contained herein.

COMMERCIAL TESTING & ENGINEERING CO.
GENERAL OFFICES: 1919 SOUTH HIGHLAND AVE., SUITE 210-B, LOMBARD, ILLINOIS 60148 • TEL: 708-953-9300 FAX: 708-953-9306

NCE 1908

Member of the SGS Group (Société Générale de Surveillance)

PLEASE ADDRESS ALL CORRESPONDENCE TO:
P.O. BOX 1020, HUNTINGTON, UT 84528
TEL: (801) 653-2311
FAX: (801) 653-2436

December 13, 1994

SOLDIER CREEK COAL CO.
P.O. Box 1029
Wellington, UT 84542

Sample identification by
SOLDIER CREEK COAL CO.

DEC 15 1994

SOLDIER CREEK COAL CO

Kind of sample reported to us	Coal
Sample taken at	Banning Rail Site
Sample taken by	Soldier Creek
Date sampled	------
Date received	November 4, 1994

Coal Sample
2000 grams
1 Bag

Analysis report no. 59-174732

SOIL ANALYSIS

pH	8.44 units
Conductivity	280 umhos/cm
Saturation %	67.75
Nitrate-nitrogen	<0.4%
Non-Sulfate Sulfur	0.42%
Total Organic Sulfur	<0.01%
Calcium carbonate	1.70%
ACID BASE POTENTIAL	
Neutralization potential	17.0 tons $CaCO_3$/ 1000 tons
Maximum Acid Potential	12.8 tons $CaCO_3$/ 1000 tons
Net Acid Base Potential	4.20 tons $CaCo_3$/ 1000 tons

Respectfully submitted,
COMMERCIAL TESTING & ENGINEERING CO.

Manager, Huntington Laboratory

COMMERCIAL TESTING & ENGINEERING CO.

GENERAL OFFICES: 1919 SOUTH HIGHLAND AVE., SUITE 210-B, LOMBARD, ILLINOIS 60148 • TEL: 708-953-9300 FAX: 708-953-9306

ACE 1908

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December 13, 1994

SOLDIER CREEK COAL CO.
P.O. Box 1029
Wellington, UT 84542

Sample identification by
SOLDIER CREEK COAL CO.

DEC 15 1994

SOLDIER CREEK COAL CO.

Kind of sample reported to us Coal

Coal Sample
2000 grams
1 Bag

Sample taken at Banning Rail Site

Sample taken by Soldier Creek

Date sampled ------

Date received November 4, 1994

Analysis report no. 59-174732

TRACE ELEMENTS, WATER EXTRACTABLE

Arsenic, As	0.03 ppm	**Lead, Pb**	<0.05 ppm
Barium, Ba	0.35 ppm	**Mercury, Hg**	<0.0002 ppm
Boron, B	0.13 ppm	**Molybdenum, Mo**	<0.05 ppm
Cadmium, Cd	<0.01 ppm	**Selenium, Se**	<0.01 ppm
Copper, Cu	<0.01 ppm	**Zinc, Zn**	<0.01 ppm

Respectfully submitted,
COMMERCIAL TESTING & ENGINEERING CO.

Manager, Huntington Laboratory

I. The list of officers and control information which were submitted and approved during 1994 are still current.

J. Other Information

The Soldier Creek Coal Company permit and the Banning Loadout permit require an Air Pollution Source Evaluation Report each year. The reports for the mine site and the loadout for 1994 are attached.

STATE OF UTAH DEPARTMENT OF HEALTH
DIVISION OF ENVIRONMENTAL HEALTH
BUREAU OF AIR QUALITY
AIR POLLUTION SOURCE EVALUATION REPORT

TYPE OF INSPECTION: INITIAL ( ) STACK TEST ( ) CEM ( )
FOLLOW-UP ( ) ANNUAL (X) SURVEILLANCE ( ) COMPLAINTS ( )

DATE 10-31-94 TIME ARR 10:00 TIME DPT 12:00 PAGE 1 of 2

COMPANY: Soldier Creek Coal Co.
CONTACT: Dave Spillman
LOCATION: Mine Site
PHONE #: (801) 637-6360
INDUSTRY: Coal Mining CDS CLASS.
SOURCE: Fugitive Emissions Only
HEIGHT OF DISCHARGE POINT: DIMENSIONS:

OPERATING PARAMETERS OF SOURCE-NORMAL (YES X) (NO)
ACTUAL: DESIGN:
TYPE BURNER FUEL:
CONTROL FACILITY:

APPLICABLE REGULATIONS/APPROVAL ORDER(S)/LIMITATIONS/ CONDITIONS MET:

Opacity < 20% (Y) N
Y/N
Y/N
Y/N
Y/N
Y/N

STACK TEST INFORMATION

MAXIMUM ALLOWABLE EMISSION RATE:
LAST TEST DATE: NEXT TEST DUE DATE: 10-95
OBSERVER: Keith Welch, Keith Zobell
OBSERVER CERTIFICATION DATE: 10-19-94
OBSERVER SIGNATURE: Keith Welch, Keith Zobell
COPY OF REPORT GIVEN TO:
CONTACT SIGNATURE:

COMMENTS:

- Facility in normal operation with coal tranfer at all points
- Trucks loading at both bins
- Loader pushing coal to stacking tube reclain system

OBSERVATION & WEATHER CONDITIONS

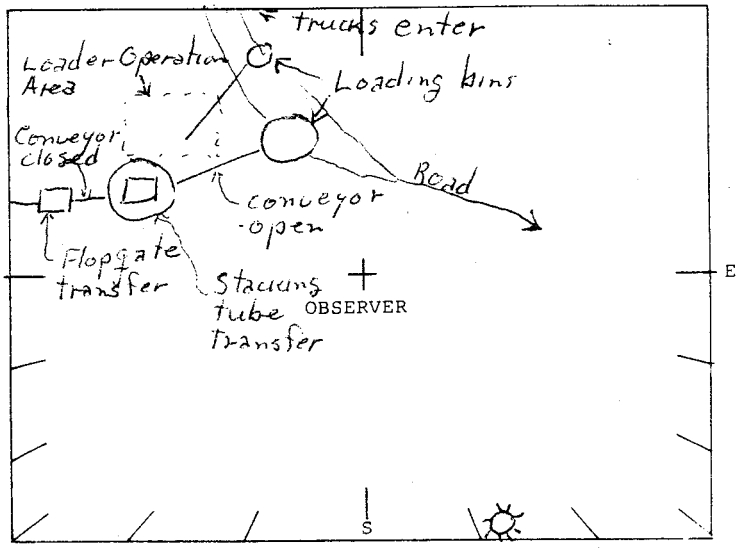
OBSERVERS DISTANCE TO SOURCE: 120 – 200 feet
BACKGROUND DESCRIPTION: Mostly vegetated sandstone Hillside - Flopgate transfer was blue sky

PLUME DESCRIPTION:

COLOR: LENGTH:
STEAM PLUME: Y (N) ATTACHED: Y/N LENGTH OF STEAM
PLUME:

Wx CONDITION:

WIND DIRECTION: SSE WIND SPEED: 3 mph
AMBIENT TEMP: 13°C RELATIVE HUMIDITY: -



OPACITY READINGS
Mobile Sources - Trucks

No.	Hr:Min.	SECONDS 0	15	30	45	AVG.
1	10 : 20	10	20	5	0	
2	10 : 21	0	0	0	0	0
3	10 : 22	5	5	0	0	3.3
4	10 : 23	0	5	5	10	
5	10 : 24	20	5	0	0	
6	10 : 25	0	0	0	0	
1	:					
2	:					
3	:					
4	:					
5	:					
6	:					

SOURCE: Drop from flopgate
HGHT. OF DISCHG ____ DIMENSION ____

OPERATING PARAMETERS NORMAL (Y/N)
ACTUAL: ____
DESIGN: ____
CONTROL FACILITY: ____
TYPE BURNER FUEL: ____

APPLICABLE REG/A.O. LIMIT/COND. MET:
____ Y/N
____ Y/N
____ Y/N
____ Y/N
____ Y/N

ALLOWABLE EMISSION RATE ____
LAST TEST DATE ____ DUE DATE ____
DISTANCE TO SOURCE ____
BACKGROUND DESCRIPTION ____
PLUME COLOR ____ /LENGTH ____
STEAM PLUME Y/N ATTACHED Y/N
LENGTH OF STEAM PLUME ____
WIND SPEED ____ /DIRECTION ____
AMB. TEMP. ____ R.H. ____ %

See Page 1

W + E
S

#	HR:MIN	SECONDS 0	15	30	45	AVG.
1	10:28	10	10	5	5	1.9%
2	10:29	0	0	0	0	
3	10:30	0	0	0	5	
4	10:31	0	5	5	0	
5	10:32	0	0	0	0	
6	10:33	0	0	0	0	
1						
2						
3						
4						
5						
6						

SOURCE: Loader Operation
HGHT. OF DISCHG ____ DIMENSION ____

OPERATING PARAMETERS NORMAL (Y/N)
ACTUAL: ____
DESIGN: ____
CONTROL FACILITY: ____
TYPE BURNER FUEL: ____

APPLICABLE REG/A.O. LIMIT/COND. MET:
____ Y/N
____ Y/N
____ Y/N
____ Y/N
____ Y/N

ALLOWABLE EMISSION RATE ____
LAST TEST DATE ____ DUE DATE ____
DISTANCE TO SOURCE ____
BACKGROUND DESCRIPTION ____
PLUME COLOR ____ /LENGTH ____
STEAM PLUME Y/N ATTACHED Y/N
LENGTH OF STEAM PLUME ____
WIND SPEED ____ /DIRECTION ____
AMB. TEMP. ____ R.H. ____ %

See Page 1

W + E
S

#	HR:MIN	SECONDS 0	15	30	45	AVG.
1	10:35	0	0	5	0	0.6%
2	10:36	0	5	0	0	
3	10:37	0	0	0	5	
4	10:38	0	0	0	5	
5	10:39	0	0	0	0	
6	10:40	0	5	0	0	
1						
2						
3						
4						
5						
6						

SOURCE: Flopgate transfer
HGHT. OF DISCHG ____ DIMENSION ____

OPERATING PARAMETERS NORMAL Y/N
ACTUAL: ____
DESIGN: ____
CONTROL FACILITY: ____
TYPE BURNER FUEL: ____

APPLICABLE REG/A.O. LIMIT/COND. MET:
____ Y/N
____ Y/N
____ Y/N
____ Y/N
____ Y/N

ALLOWABLE EMISSION RATE ____
LAST TEST DATE ____ DUE DATE ____
DISTANCE TO SOURCE ____
BACKGROUND DESCRIPTION ____
PLUME COLOR ____ /LENGTH ____
STEAM PLUME Y/N ATTACHED Y/N
LENGTH OF STEAM PLUME ____
WIND SPEED ____ /DIRECTION ____
AMB. TEMP. ____ R.H. ____ %

See Page 1

W + E
S

#	HR:MIN	SECONDS 0	15	30	45	AVG.
1	10:44	0	0	0	0	0%
2	10:45	0	0	0	0	
3	10:46	0	0	0	0	
4	10:47	0	0	0	0	
5	10:48	0	0	0	0	
6	10:49	0	0	0	0	
1						
2						
3						
4						
5						
6						

SOURCE: Open Conveyor
HGHT. OF DISCHG ____ DIMENSION ____

OPERATING PARAMETERS NORMAL (Y/N)
ACTUAL: ____
DESIGN: ____
CONTROL FACILITY: ____
TYPE BURNER FUEL: ____

APPLICABLE REG/A.O. LIMIT/COND. MET:
____ Y/N
____ Y/N
____ Y/N
____ Y/N
____ Y/N

ALLOWABLE EMISSION RATE ____
LAST TEST DATE ____ DUE DATE ____
DISTANCE TO SOURCE ____
BACKGROUND DESCRIPTION ____
PLUME COLOR ____ /LENGTH ____
STEAM PLUME Y/N ATTACHED Y/N
LENGTH OF STEAM PLUME ____
WIND SPEED ____ /DIRECTION ____
AMB. TEMP. ____ R.H. ____ %

SOURCE: Stacking tube transfer
HGHT. OF DISCHG ____ DIMENSION ____

OPERATING PARAMETERS NORMAL (Y/N)
ACTUAL: ____
DESIGN: ____
CONTROL FACILITY: ____
TYPE BURNER FUEL: ____

APPLICABLE REG/A.O. LIMIT/COND. MET:
____ Y/N
____ Y/N
____ Y/N
____ Y/N
____ Y/N

ALLOWABLE EMISSION RATE ____
LAST TEST DATE ____ DUE DATE ____
DISTANCE TO SOURCE ____
BACKGROUND DESCRIPTION ____
PLUME COLOR ____ /LENGTH ____
STEAM PLUME Y/N ATTACHED Y/N
LENGTH OF STEAM PLUME ____
WIND SPEED ____ /DIRECTION ____
AMB. TEMP. ____ R.H. ____ %

SOURCE: Conveyor - Covered
HGHT. OF DISCHG ____ DIMENSION ____

OPERATING PARAMETERS NORMAL Y/N
ACTUAL: ____
DESIGN: ____
CONTROL FACILITY: ____
TYPE BURNER FUEL: ____

APPLICABLE REG/A.O. LIMIT/COND. MET:
____ Y/N
____ Y/N
____ Y/N
____ Y/N
____ Y/N

ALLOWABLE EMISSION RATE ____
LAST TEST DATE ____ DUE DATE ____
DISTANCE TO SOURCE ____
BACKGROUND DESCRIPTION ____
PLUME COLOR ____ /LENGTH ____
STEAM PLUME Y/N ATTACHED Y/N
LENGTH OF STEAM PLUME ____
WIND SPEED ____ /DIRECTION ____
AMB. TEMP. ____ R.H. ____ %

See Page 1

W + E
S

#	HR:MIN	SECONDS 0	15	30	45	AVG.
1	10:52	0	0	0	0	0%
2	10:53	0	0	0	0	
3	10:54	0	0	0	0	
4	10:55	0	0	0	0	
5	10:56	0	0	0	0	
6	10:57	0	0	0	0	
1						
2						
3						
4						
5						
6						

See Page 1

W + E
S

#	HR:MIN	SECONDS 0	15	30	45	AVG.
1	11:00	0	0	0	0	0%
2	11:01	0	0	0	0	
3	11:02	0	0	0	0	
4	11:03	0	0	0	0	
5	11:04	0	0	0	0	
6	11:05	0	0	0	0	
1						
2						
3						
4						
5						
6						

See Page 1

W + E
S

#	HR:MIN	SECONDS 0	15	30	45	AVG.
1	11:08	0	0	0	0	0%
2	11:09	0	0	0	0	
3	11:10	0	0	0	0	
4	11:11	0	0	0	0	
5	11:12	0	0	0	0	
6	11:13	0	0	0	0	
1						
2						
3						
4						
5						
6						

STATE OF UTAH DEPARTMENT OF HEALTH
DIVISION OF ENVIRONMENTAL HEALTH
BUREAU OF AIR QUALITY
AIR POLLUTION SOURCE EVALUATION REPORT

TYPE OF INSPECTION: INITIAL ( ) STACK TEST ( ) CEM ( )
FOLLOW-UP ( ) ANNUAL (X) SURVEILLANCE ( ) COMPLAINTS ( )

DATE 10-31-94 TIME ARR 13.00 TIME DPT 14:20 PAGE 1 of 3

COMPANY: Soldier Creek Coal Co.
CONTACT: Dave Spillman
LOCATION: Banning Loadout
PHONE #: (801) 637-6360
INDUSTRY: Coal Transfer - truck to trains SIC CLASS.
SOURCE: Fugitive Emissions Only
HEIGHT OF DISCHARGE POINT: DIMENSIONS:

OPERATING PARAMETERS OF SOURCE-NORMAL (YES__) (NO__)
ACTUAL: DESIGN:
TYPE BURNER FUEL:
CONTROL FACILITY:

APPLICABLE REGULATIONS/APPROVAL ORDER(S)/LIMITATIONS/ CONDITIONS MET:

Opacity < 30% (Y)N
Y/N
Y/N
Y/N
Y/N
Y/N

STACK TEST INFORMATION

MAXIMUM ALLOWABLE EMISSION RATE:
LAST TEST DATE: NEXT TEST DUE DATE: 10-95

OBSERVER: Keith Welch, Keith Zobell
OBSERVER CERTIFICATION DATE: 10-19-94
OBSERVER SIGNATURE: Keith Welch, Ludwig Zobell
COPY OF REPORT GIVEN TO:
CONTACT SIGNATURE:

COMMENTS:

- Machinery in Continous operation except reclaim system to trains
- trucks dumped during minutes 1, 3 and 6 with coal moving through system during all observations

OBSERVATION & WEATHER CONDITIONS

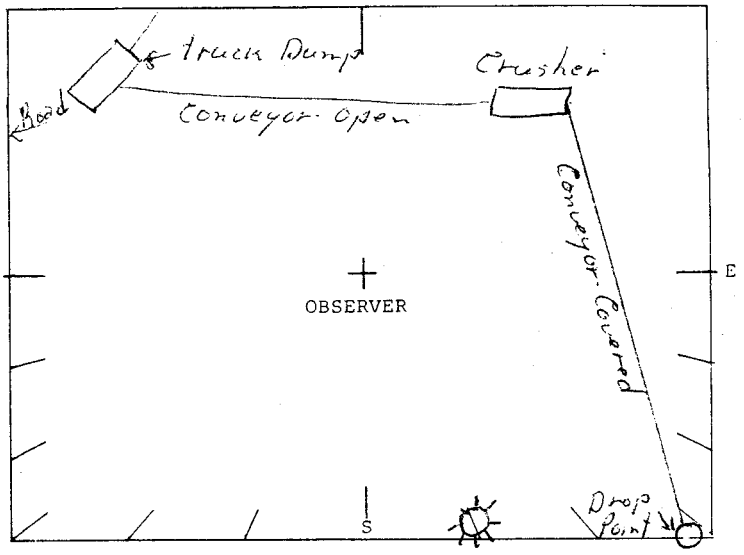
OBSERVERS DISTANCE TO SOURCE: Approx 110 ft
BACKGROUND DESCRIPTION: Sky - light overcast

PLUME DESCRIPTION:

COLOR: LENGTH:
STEAM PLUME: Y/N ATTACHED: Y/N LENGTH OF STEAM PLUME:

Wx CONDITION:

WIND DIRECTION: NA WIND SPEED: 0
AMBIENT TEMP: 11°C RELATIVE HUMIDITY: -



OPACITY READINGS

Truck Dump

No.	Hr:Min.	SECONDS 0	15	30	45	AVG.
1	13 : 04	0	5-	5-	5-	
2	13 : 05	5-	0	5-	10	6/0
3	13 : 06	0	5-	0	5-	3/0
4	13 : 07	0	0	0	0	0
5	13 : 08	0	0	0	0	
6	13 : 09	0	5-	0	5-	
1	:					
2	:					
3	:					
4	:					
5	:					
6	:					

SOURCE: Conveyor - Open

HGHT. OF DISCHG _____ DIMENSION ____

OPERATING PARAMETERS NORMAL (Y/N)

ACTUAL: _____

DESIGN: _____

CONTROL FACILITY: _____

TYPE BURNER FUEL: _____

APPLICABLE REG/A.O. LIMIT/COND. MET:

_____ Y/N

_____ Y/N

_____ Y/N

_____ Y/N

_____ Y/N

ALLOWABLE EMISSION RATE _____

LAST TEST DATE _____ DUE DATE ____

DISTANCE TO SOURCE _____

BACKGROUND DESCRIPTION _____

PLUME COLOR _____ /LENGTH _____

STEAM PLUME Y/N ATTACHED Y/N

LENGTH OF STEAM PLUME _____

WIND SPEED _____ /DIRECTION _____

AMB. TEMP. R.H. %

SOURCE: Crusher

HGHT. OF DISCHG _____ DIMENSION ____

OPERATING PARAMETERS NORMAL (Y/N)

ACTUAL: _____

DESIGN: _____

CONTROL FACILITY: _____

TYPE BURNER FUEL: _____

APPLICABLE REG/A.O. LIMIT/COND. MET:

_____ Y/N

_____ Y/N

_____ Y/N

_____ Y/N

_____ Y/N

ALLOWABLE EMISSION RATE _____

LAST TEST DATE _____ DUE DATE ____

DISTANCE TO SOURCE _____

BACKGROUND DESCRIPTION _____

PLUME COLOR _____ /LENGTH _____

STEAM PLUME Y/N ATTACHED Y/N

LENGTH OF STEAM PLUME _____

WIND SPEED _____ /DIRECTION _____

AMB. TEMP. R.H. %

SOURCE: Conveyor Covered

HGHT. OF DISCHG _____ DIMENSION ____

OPERATING PARAMETERS NORMAL Y/N

ACTUAL: _____

DESIGN: _____

CONTROL FACILITY: _____

TYPE BURNER FUEL: _____

APPLICABLE REG/A.O. LIMIT/COND. MET:

_____ Y/N

_____ Y/N

_____ Y/N

_____ Y/N

_____ Y/N

ALLOWABLE EMISSION RATE _____

LAST TEST DATE _____ DUE DATE ____

DISTANCE TO SOURCE _____

BACKGROUND DESCRIPTION _____

PLUME COLOR _____ /LENGTH _____

STEAM PLUME Y/N ATTACHED Y/N

LENGTH OF STEAM PLUME _____

WIND SPEED _____ /DIRECTION _____

AMB. TEMP. R.H. %

See Page 1

W E S

See Page 1

W E S

Conveyor Covered Drop Point

W E S

#	HR:MIN	SECONDS 0	15	30	45	AVG.
1	13:11	0	0	0	6	0%
2	13:12	0	0	0	0	
3	13:13	0	0	0	0	
4	13:14	0	0	0	0	
5	13:15	0	0	0	0	
6	13:16	0	0	0	0	
1						
2						
3						
4						
5						
6						

#	HR:MIN	SECONDS 0	15	30	45	AVG.
1	13:18	0	0	30	20	0%
2	13:19	20	0	15	10	
3	13:20	15	15	10	20	
4	13:21	15	10	10	5	
5	13:22	5	5	5	0	
6	13:23	0	0	0	0	
1						
2						
3						
4						
5						
6						

#	HR:MIN	SECONDS 0	15	30	45	AVG.
1	13:30	0	0	0	0	0%
2	13:31	0	0	0	0	
3	13:32	0	0	0	0	
4	13:33	0	0	0	0	
5	13:34	0	0	0	0	
6	13:35	0	0	0	0	
1						
2						
3						
4						
5						
6						

SOURCE: Drop Point to Stockpile
HGHT. OF DISCHG _____ DIMENSION ____

OPERATING PARAMETERS NORMAL (Y/N)
ACTUAL: _____
DESIGN: _____
CONTROL FACILITY: _____
TYPE BURNER FUEL: _____

APPLICABLE REG/A.O. LIMIT/COND. MET:
_____ Y/N
_____ Y/N
_____ Y/N
_____ Y/N
_____ Y/N

ALLOWABLE EMISSION RATE _____
LAST TEST DATE _____ DUE DATE ____
DISTANCE TO SOURCE _____
BACKGROUND DESCRIPTION _____
PLUME COLOR _____/LENGTH _____
STEAM PLUME Y/N ATTACHED Y/N
LENGTH OF STEAM PLUME _____
WIND SPEED _____/DIRECTION _____
AMB. TEMP. R.H. %

SOURCE: _____
HGHT. OF DISCHG ____ DIMENSION ____

OPERATING PARAMETERS NORMAL (Y/N)
ACTUAL: _____
DESIGN: _____
CONTROL FACILITY: _____
TYPE BURNER FUEL: _____

APPLICABLE REG/A.O. LIMIT/COND. MET:
_____ Y/N
_____ Y/N
_____ Y/N
_____ Y/N
_____ Y/N

ALLOWABLE EMISSION RATE _____
LAST TEST DATE _____ DUE DATE ____
DISTANCE TO SOURCE _____
BACKGROUND DESCRIPTION _____
PLUME COLOR _____/LENGTH _____
STEAM PLUME Y/N ATTACHED Y/N
LENGTH OF STEAM PLUME _____
WIND SPEED _____/DIRECTION _____
AMB. TEMP. R.H. %

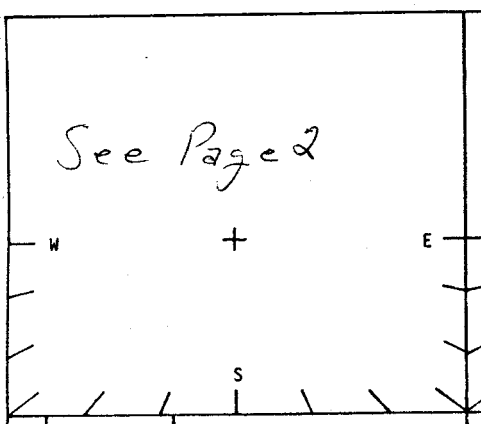
SOURCE: _____
HGHT. OF DISCHG ____ DIMENSION ____

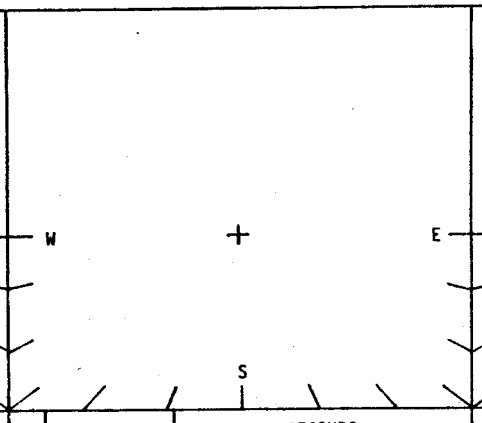
OPERATING PARAMETERS NORMAL Y/N
ACTUAL: _____
DESIGN: _____
CONTROL FACILITY: _____
TYPE BURNER FUEL: _____

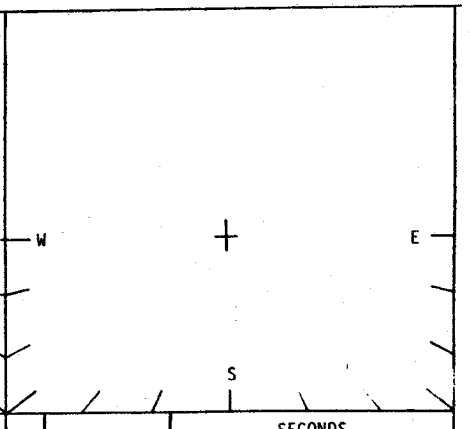
APPLICABLE REG/A.O. LIMIT/COND. MET:
_____ Y/N
_____ Y/N
_____ Y/N
_____ Y/N
_____ Y/N

ALLOWABLE EMISSION RATE _____
LAST TEST DATE _____ DUE DATE ____
DISTANCE TO SOURCE _____
BACKGROUND DESCRIPTION _____
PLUME COLOR _____/LENGTH _____
STEAM PLUME Y/N ATTACHED Y/N
LENGTH OF STEAM PLUME _____
WIND SPEED _____/DIRECTION _____
AMB. TEMP. R.H. %

See Page 2







#	HR:MIN	SECONDS 0	15	30	45	AVG.
1	13:37	5	5	5	5	
2	13:38	0	5	5	0	
3	13:39	0	5	0	5	2.3%
4	13:40	0	5	0	0	
5	13:41	5	5	0	0	
6	13:42	0	0	0	0	
1						
2						
3						
4						
5						
6						

#	HR:MIN	SECONDS 0	15	30	45	AVG.
1						
2						
3						
4						
5						
6						
1						
2						
3						
4						
5						
6						

#	HR:MIN	SECONDS 0	15	30	45	AVG.
1						
2						
3						
4						
5						
6						
1						
2						
3						
4						
5						
6						