



ECKHOFF, WATSON and PREATOR ENGINEERING

PRO/007/035 #2

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October 19, 1992

Mr. Jim Dykman
State Historic Preservation Officer
300 Rio Grande
Salt Lake City, UT 84101

Dear Mr. Dykman,

I am writing to request that the area outlined in the enclosed map and described in the enclosed legal description be analyzed to determine whether or not there are historic places in the area. The parcel of land is located in Carbon County, Utah, which is located in the southern half of Section 6 and the northern half of Section 7, Township 15 South, Range 14 East, Salt Lake Base and Meridian.

We are currently working with the Division of Oil, Gas and Mining (DOG M) preparing a Coal Mine Permit for the Sunnyside Mines. We are updating information from previous permits and compiling the information in order to bring the new permit application into compliance with current regulations. One of the requirements of the permit is that a letter be provided from SHPO stating the existence or nonexistence of potentially eligible historic sites and presently listed historic sites within the permit area.

I visited SHPO in June of this year to determine whether there were any new listings in the permit area. I reviewed existing maps and documents provided by SHPO and determined that the only historic site within the permit boundary was Site 42Cb325, Coke Ovens. I have included the section of the permit application that discusses Cultural and Historic Resources Sites. I would appreciate it if you could review this section and comment on its accuracy.

It would be extremely helpful if a letter could be provided addressing the above mentioned requests. If there are any questions, please feel free to contact either Alane Boyd or Jessica Smith at 261-0090. I appreciate your assistance and look forward to hearing from you soon.

Sincerely,

Alane E. Boyd
Alane E. Boyd, P.E.

JWS:jws

Enclosure:

cc: Brian Burnett -SCA
Pamela Grubaugh-Littig- DOGM

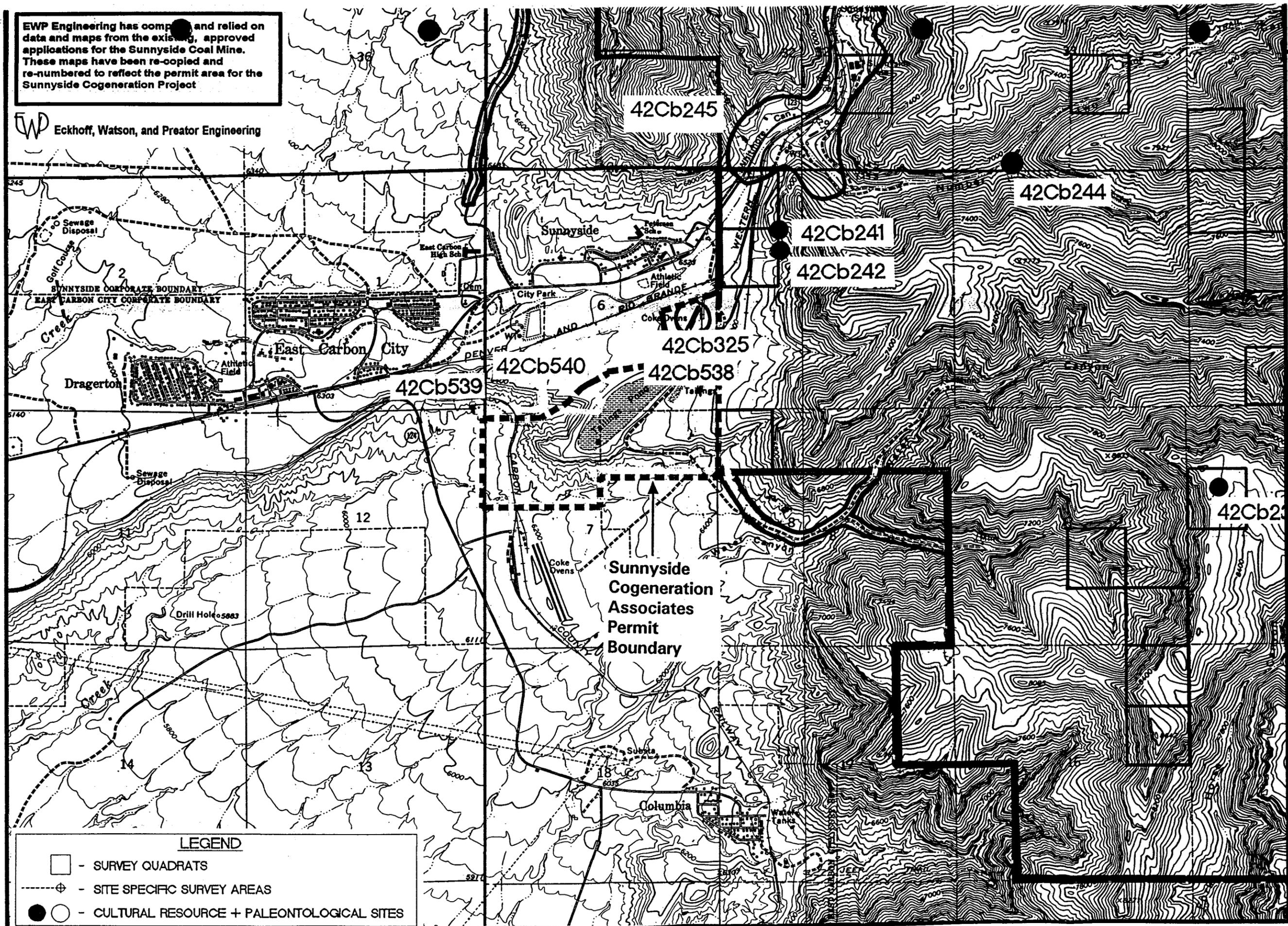
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DIVISION OF
OIL GAS & MINING

EWP Engineering has compiled and relied on data and maps from the existing, approved applications for the Sunnyside Coal Mine. These maps have been re-copied and re-numbered to reflect the permit area for the Sunnyside Cogeneration Project

EWP Eckhoff, Watson, and Preator Engineering



LEGEND

- - SURVEY QUADRATS
- ⊕ - SITE SPECIFIC SURVEY AREAS
- ○ - CULTURAL RESOURCE + PALEONTOLOGICAL SITES

SURVEY AREA AND SITE LOCATIONS

REVISIONS	
NO.	DATE

SUNNYSIDE COGENERATION	DRAWN BY	DATE
	CHECKED BY	DATE
SUNNYSIDE, UTAH	APPROVED	SCALE 1" = 2000'

FORM FOR ADVERTISEMENT OF APPLICATION FILING

Notice is hereby given that Sunnyside Cogeneration Associates, of

Sunnyside Cogeneration Associates
 Attention: David Pearce
 P.O. Box 58087
 Salt Lake City, Utah 84158-0087

OR

Sunnyside Cogeneration Associates
 c/o Environmental Power Corporation
 200 State Street, 13th Floor
 Boston, Massachusetts 02129

has submitted an application to the State of Utah, Department of Natural Resources, Division of Oil, Gas and Mining, for transfer of a portion of Permit No. ACT/007/007 to Sunnyside Cogeneration Associates under the provisions of the Utah Coal Mining and Reclamation Act (Utah Code Ann. 40-10-1, et seq.) and the Utah Coal Mining Rule R645. The previous permittee was Sunnyside Coal Company, of The Registry, 1122 Spruce Street, Boulder, Colorado, 80302.

The permit area is located in Carbon County, Utah as follows:

PARCEL B:

Describing a parcel of land located in Carbon County, Utah, which is located in the east half of Section 6, Township 15 South, Range 14 East, Salt Lake Base and Meridian and being more particularly described according to the following courses and distances, to wit:

Beginning at the East one quarter corner of Section 6, Township 15 South, Range 14 East, Salt Lake Base and Meridian and running thence S 0°13'39" W, 1818.48 feet along the east section line of Section 6 to the south right of way line of an existing railroad track; thence northwesterly along a curve to the right with a radius of 450.00 feet, through an angle of 83°37'47", for a distance of 656.83 feet having a chord that bears N 40°27'18" W, 600.05 feet; thence N 1°21'36" E, 68.00 feet along the westerly right of way line of an existing railroad track; thence S 57°11'02" W, 338.86 feet to an existing 5/8 inch rebar; thence S 66°14'45" W, 220.17 feet to an existing 5/8 inch rebar; thence S 86°11'30" W, 261.34 feet to a metal fence post; thence N 4°41'13" W, 264.09 feet to a

roof bolt on the west side of a gate in a fence line; thence N 10°54'48" W, 189.49 feet to a metal fence post; thence N 0°39'10" W, 254.39 feet to a metal fence post; thence N 10°09'48" W, 315.48 feet to a metal fence post; thence N 6°32'57" W, 232.70 feet to a roof bolt in an existing fence line; thence N 6°32'57" W, 65.24 feet to the south right of way line of a Denver and Rio Grande Railroad as described in a certain deed dated July 29, 1912; thence N 71°27'00" E, 1209.07 feet along the south line of a 50 foot wide right of way for the Denver and Rio Grande Railroad; thence northeasterly along a curve to the left with a radius of 979.93 feet, through an angle of 9°19'48", for a distance of 159.57 feet, having a chord that bears N 66°47'06" E, 159.40 feet to the east line of said Section 6; thence S 0°13'39" W, 174.12 feet along the east line of Section 6, to the point of beginning.

Containing 42.316 acres more or less.

PARCEL C:

Describing a parcel of land located in Carbon County, Utah, which is located in the south half of Section 6, Township 15 South, Range 14 East, Salt Lake Base and Meridian, and being more particularly described according to the following courses and distances, to-wit:

Beginning at the southeast corner of Section 6, Township 15 South, Range 14 East, Salt Lake Base and Meridian which is a brass cap; and running thence N 89°57'59" W, 2646.97 feet along the south line of said Section 6 to the south one-quarter corner of said Section 6; thence S 89°27'59" W, 1321.87 feet along the south line of said Section 6 to the southwest corner of the SE1/4SW1/4 of said Section 5; thence N 59°40'32" E, 666.58 feet to a metal fence post; thence N 44°13'50" E, 430.53 feet to a roof bolt; thence N 59°09'24" E, 167.86 feet to a metal fence post; thence N 63°51'14" E, 188.19 feet to a metal fence post; thence N 60°15'43" E, 335.60 feet to a metal fence post; thence N 21°00'31" W, 34.15 feet to an east brace post in a barbed wire fence; thence N 81°18'59" E, 1270.98 feet along an existing fence line to a roof bolt; thence N 36°40'17" E, 152.88 feet along a fence line to a roof bolt; thence S 4°41'13" E, 264.09 feet to a metal fence post; thence N 86°11'30" E, 261.34 feet to an existing 5/8 inch rebar; thence N 66°15'45" E, 220.17 feet to an existing rebar; thence N 57°11'01" E, 338.86 feet to the west right of way line of an existing railroad right of way; thence S 1°21'36" W, 68.00 feet along the westerly right of way line of an existing railroad track; thence southeasterly along a curve to the left with

a radius of 450.00 feet, through an angle of $83^{\circ}37'47''$, for a distance of 656.83 feet having a chord that bears $S 40^{\circ}27'18'' E$ 600.05 feet to a point on the east line of said Section 6; thence $S 0^{\circ}13'39'' W$, 818.01 feet along the section line to the point of beginning

Containing 79.085 acres, more or less.

ALSO:

Describing a parcel of land located in Carbon County, Utah, which is located in the north half of Section 7, Township 15 South, Range 14 East, Salt Lake Base and Meridian and being more particularly described according to the following courses and distances to-wit:

Beginning at the northwest corner of Section 7, Township 15 South, Range 14 East, Salt Lake Base and Meridian, which is a brass cap; and running thence $N 89^{\circ}27'59'' E$, 1253.27 feet along the north line of said Section 7 to the northeast corner of the NW1/4NW1/4 of said Section 7; thence $N 89^{\circ}27'59'' E$, 1321.87 feet along the north line of said Section 7 to the north one quarter corner of said Section 7; thence $S 89^{\circ}57'59'' E$, 2646.97 feet along the north line of said Section 7 to the northeast corner of said Section 7 to the northeast corner of said Section 7 which is a brass cap; thence $S 0^{\circ}15'54'' W$, 1322.37 feet along the east line of said Section 7 to the southeast corner of the NE1/4NE1/4 of said Section 7; thence $S 89^{\circ}53'03'' W$, 2656.91 feet along the south line of the north one half of the northeast one quarter of said Section 7 to the southwest corner of the NW1/4NE1/4 of said Section 7; thence $S 0^{\circ}41'30'' W$, 664.69 feet along the east line of the SE1/4NW1/4 of said Section 7 to the southeast corner of the NE1/4SE1/4NW1/4 of said Section 7; thence $S 89^{\circ}40'06'' W$, 2560.98 feet along the south line of the north one half of the south one half of the northwest one quarter of said Section 7 to the southwest corner of the NW1/4SW1/4NW1/4 of said Section 7; thence $N 0^{\circ}17'17'' E$, 1984.79 feet along the west section line of said Section 7 to the point of beginning.

Containing 197.987 acres, more or less.

Less a strip of land 200 feet wide for an existing railroad right of way lying in the west half of Section 7, Township 15 South, Range 14 East, Salt Lake Base and Meridian, the boundaries of which are parallel to the 100 feet distant at right angles from the following described center line:

Beginning at a point on the north boundary line of said Section 7, which point is Station 102+50.0 P.O.C. of the Railroad Center Line Survey, said point being N 89°27'59", 633.0 feet, more or less, along the north line of said Section 7, said point being on a curve to the right with a radius of 572.96 feet through an angle of 114°43' for a distance of 1147.2 feet and having chord bearing of S 1°24'18" E and a distance of 443.97 feet, the tangent to curve at this point bearing S 24°12' E; thence continuing on the same curve right 455.9 feet in a southerly direction to Station 107+05.9 P.T.; thence S 21°21' W, 245.5 feet to Station 109+51.4 P.C., which point is the beginning of a curve to the left with a radius of 716.20 feet through an angle of 28°20' for a distance of 354.2 feet and having a chord bearing of S 7°13' W and a distance of 350.57 feet to Station 113+05.6 P.T.; thence S 6°57' E, 973.89 feet to Station 122+79.49, said point begin on the south line of the north one half of the south one half of the northwest one quarter of said Section 7.

Containing 9.318 acres, more or less.

Written Comments: Pursuant to R645-303-330, any person having an interest which is or may be adversely affected by a decision on the transfer, assignment, or sale of permit rights, including an official of any federal, state, or local government agency, may submit written comments on the Application to the Division, within 30 days of the date of this advertisement, at the following address:

DIVISION OF OIL, GAS AND MINING
Attn: Dianne R. Nielson, Director
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Premining land-use information is further outlined in the following sections. The descriptions include cultural and historic resources information, complete narratives of the land-use capabilities, and descriptions of the existing land uses and land-use classifications under local law as required by regulations R645-301-411.120 through R645-301-411.140.

411.110 Maps and Narratives Describing Existing Land Uses

The reclamation activities following mining are designed to allow the area to revert to the type of activity that occurred prior to mining. Plate 4-6 is a map showing the boundaries of ownership and existing land uses.

The information on land status and land use has been obtained primarily from SCC's records and internal sources as well as from Carbon County records.

Information on regional land use and socioeconomic considerations has been derived impart for the "Final Environment Statement, Development of Coal Resources in Central Utah" by the U.S. Geological Survey (1978) which covers quite fully the subject matter for the area of interest. It is assumed that the socioeconomic conditions of the area have not changed dramatically over the past decade and that the SCA activities will have much of the same impact as the SCC mines to the surrounding communities.

411.120 thru 411.130 Land Use Narrative

Regionally, about 76% of the surface lands are Federal. Only a small part of the total acreage is irrigated farmland. Prime farmland has not been identified adjacent to or within the SCA Permit Area. The SCA Permit Area land use is dominated by a refuse pile. It is estimated that approximately 175 acres (or 57%) of the SCA Permit Area has been disturbed by mining operations (refuse pile and drainage facilities). The disturbed areas contained mostly Pinion-Juniper/grass type vegetation.

The SCA cogeneration operations constitute a major factor in the local economy. The operations are of significant importance to the socioeconomic well being of the area.

Productivity of the land use areas adjacent to and within the SCA Permit Area has been rated by the U.S. Soil Conservation Service as "Fair to Poor". Figure 4-3 states the condition of existing coal mine waste ponds, impoundments, banks, dams, and embankments. It also includes the results of an inspection done in response to the Rules and Regulations of the Utah Board and Division of Oil, Gas, and Mining (DOG M) concerning slope stability.

411.140 Cultural and Historic Resources Information

The consulting Services Branch of the Antiquities Section, Division of State History, conducted a cultural resource inventory for SCC. The survey consisted of a 10% stratified, random sampling of the mining area and three site specific examinations of future mine surface expansion locations.

A literature search of all regional (secondary) archeological and historical literature, as well as essential primary (site specific) literature was made. A partial survey of the SCA Permit Area was completed by the Utah Historical Society Preservation Office Survey and Planning staff. Presently, there are two sites potentially eligible for nomination with the National Register within the SCA Permit Area and adjacent

area: the coke ovens located on Site 42Cb325 (within the SCA Permit Area) and a cemetery located on Site 42Cb538 (adjacent to the SCA Permit Area). Site descriptions are included in Appendix 4-1. Plate 4-2 shows the location of the coke ovens, the cemetery, and other sites adjacent to the SCA Permit Area which are mentioned in the following paragraphs.

Included are brief descriptions of the coke ovens (Site 42Cb325) and the cemetery (Site 42Cb538). It should also be noted that no prehistoric sites were recorded prior to this study.

Located in Section 6, Township 15 South, Range 14 East are approximately 26 coke ovens remaining from the original 800. Coal from the mine was brought down by rail into the top of the coke ovens, and the oven was given a "charge" through a hole in the top. After 72 hours, the coked coal was removed from an opening on the side and loaded onto another rail car. These coke ovens are the only physical remains from the era when Sunnyside coke was used widely throughout the western United States for smelting.

The site containing the cemetery consists of a badly disturbed cemetery located in the approximate center of the SCA cogeneration power plant site. It is completely riddled with prairie dog holes and vandals have been quite active, tipping over headstones. An unknown number of graves are present. The few headstones present (ca. 20, including fragments) appear to be handmade out of a variety of substances (cement, wood, wrought iron). No complete death notices are present and most of the headstones are weathered beyond recognition. What few are partially readable appear to be Hispanic names with deaths during the first decade of this century. Several graves are enclosed by bedsteads and commercial wrought iron fencing material. SCA has erected a chain-link fence around the perimeter of the cemetery to protect it from disturbance.

There are two other sites that are listed as non-significant by the National Register and consequently, are not considered to be potentially eligible for registration as Historical Places. The first of these consists of a diffuse, non-patterned scatter of plus or minus 50 interior and secondary flakes and one possible biface fragment (Site 42Cb539) located above the head and north of Icelander Creek. The second site consists of an extensive distribution of burned coal slag and clinkers and domestic and industrial trash situated on a broad sage covered flat (Site 42Cb540). This site is located on the outskirts of East Carbon City. Complete descriptions of these sites are shown in Appendix 4-1.

A historical and cultural resources survey of the original SCC permit area by the Consulting Services Branch, Antiquities Section of the Utah Division of State History has revealed no previously recorded sites in the listings of the National Register of Historic Places. However, sixteen prehistoric or historic sites were recorded during the survey, ten of which are eligible for nomination with the National Register. Nevertheless, none of these sites lie within the SCA Permit Area boundaries.

411.141 Cultural and Historic Resources Sites

As stated previously, the only historic site within the SCA Permit Area is the coke ovens site which is located in Site 42Cb325. The coke ovens are located about 400 meters east of Sunnyside on the edge of the refuse pile (see Plate 4-2). At the present time, twenty-six of the ovens remain. Several have been destroyed in the north end to accommodate the expansion of the refuse pile. The ovens are beehive-shaped with level roofs for "charging". The door openings, which all face east, are large enough to walk into a cavern about 2.3 meters high and 3 meters in diameter. Varying amounts of vandalism has occurred to the ovens and they remain in uncertain states of stability.

There were a total of twenty-one prehistoric artifacts collected in the original SCC permit area, but none were found within the SCA Permit Area.

Within the SCA Permit Area, there are no units of the National System of Trails or the Wild and Scenic Rivers System.

The map and figure showing historic and/or cultural resources within the SCA Permit Area are listed below.

Figure 4-1 Survey Location
Plate 4-2 Historic Sites

411.142 thru 411.144 Possible Impacts and Preventative Measures

Projected Impacts to Historical Resources

These identified sites have coexisted with the Sunnyside mines for over ninety years and have not been deleteriously affected by the mining operation. According to the Research Design Study, no Archaic affiliated sites were positively identified, nor were isolated Archaic style artifacts found.

One of the purposes of the research was to ascertain potential site density for use in future mine development. The entire mining area was originally divided into five sample universes based on topography. The results of this show that Site 42Cb325, the area containing the coke ovens, encompasses a total of .75 square miles and 1 site (i.e. 1.3 sites per square mile).

Projected Impacts to Cultural Resources

There are three potential types of impacts that could affect the cultural resources in the SCA Permit Area. The first type includes naturally occurring events such as erosion, flooding, fire, landslides, earthquakes, etc.

The second type is vandalism. This occurs in the form of illegal excavations (relic hunting), destroying standing walls, defacing rock art or architecture with paint, target practice, etc., or illegally removing surface artifacts. Vandalism cannot be totally prevented, but can be curbed. SCA will be constantly on the alert for, and remove people from, the sites that are of National Register quality. Vandalism to cultural resources can be prosecuted under existing state law that protects private property. SCA has erected a chain-link fence around the cemetery to protect it from vandalism.

A third type of impact results from construction, gaining access to specific area (roads and trails), or any other human related ground disturbance. SCA will either avoid the National Register quality sites or undergo specific mitigation procedures prior to the impact of the site. At the present time, planned ground disturbance within the SCA Permit Area will not impact any known cultural resources.