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# ARCHEOLOGICAL - ENVIRONMENTAL RESEARCH CORPORATION

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July 7, 1995

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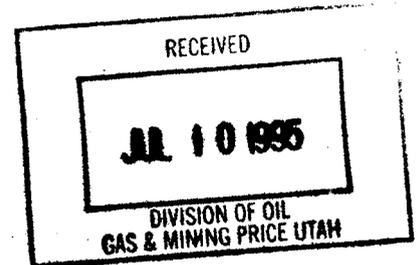
*Subject:* **A CLASS II (SAMPLE SURVEY) CULTURAL RESOURCE  
EVALUATION OF THE ALKALI TRACT AREA IN THE  
BOOK CLIFFS LOCALITY OF CARBON COUNTY, UTAH**

*Project:* Coastal Energy Corporation/Utah Fuel Company/Soldier Creek Coal  
Company

*Project No.:* CSEC-95-2

*Permit No.:* Dept. of Interior Permit - Ut-95-54937

*State Project No:* UT-95-AF-114p



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**A CLASS II (SAMPLE SURVEY)  
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CARBON COUNTY, UTAH**

Report Prepared for  
Coastal Energy Corporation/Utah Fuel Company/  
Soldier Creek Coal Company



**ARCHEOLOGICAL-ENVIRONMENTAL RESEARCH  
CORPORATION (AERC)**

Principal Investigator & Author of Report  
F. Richard Hauck, Ph.D.

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Dept. of Interior (BLM-Utah) Permit No.: UT-95-54937  
AERC Project 1484 (CSEC-95-2)

Utah State Project No.: UT-95-AF-114p

Principal Investigator & Author of Report  
F. Richard Hauck, Ph.D.



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July 6, 1995

## **ABSTRACT**

An intensive cultural resource evaluation has been conducted for Coastal Energy Corporation/Utah Fuel Company/Soldier Creek Coal Company of the Alkali Tract locality situated on private lands in the Book Cliffs locality of Carbon County, Utah. The client's proposed coal lease development program in this locality requires archaeological evaluations of 10% of the total 3060 acre study zone in order to assess its potential for containing significant resources that could be adversely affected by future subsidence activities related to the proposed mining program.

This evaluation therefore consists of a Class II or stratified sample survey of the 3060 acre study zone. That 3060 study zone contains 2060 acres in the Alkali Lease Tract, 400 acres within the Section 2 tract, and 600 acres within a .25 mile-wide buffer zone around the western and northern peripheries of the Alkali Tract.

Of these 3060 total acres, AERC archaeologists, Glade Hadden and F.R. Hauck intensively examined 335 acres or 11% of the total study area between June 26 and 30, 1995. Records in the Utah State Antiquities Section indicate that an additional 40 acres in the study area have been previously inventoried (Utah Permit G-700-4); the original report of that early survey is missing from the State files and cannot be examined or further cited.

The Class II sample survey of the 3060 acres was non-randomly developed due to the limited amount of acreage that is accessible for archaeological evaluation; perhaps 80% of the surfaces within the study area consists of escarpments associated with the Book Cliffs. Thus, AERC's intensive evaluations were confined to the upper ridges and escarpment crests -- those accessible localities where prehistoric and historic activities could have occurred.

No previously recorded significant or National Register eligible cultural resources were identified within the study area.

Two isolated artifacts were observed during the evaluation. Both artifacts consist of single lithic flakes that cannot be culturally identified or associated with activity loci.

No historic or prehistoric cultural resource activity loci were discovered and recorded during the examination. Camping debris observed within the study area is generally of modern derivation.

No paleontological loci were identified during the evaluation.

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## GENERAL INFORMATION

From June 26 through 29, 1995, AERC archaeologists F. Richard Hauck and Glade Hadden conducted a Class II sample survey within the 3060 acre study area associated with the Alkali Tract potential lease area in the Book Cliffs locality of Carbon County, Utah (see Maps 1 and 2). This sample survey involved an intensive investigation of 10% of the 3060 acre study area for Coastal Energy Corporation/Utah Fuel Company/Soldier Creek Coal Company of Price, Utah.

Utah Fuel Company's proposed coal lease development program in the Alkali Tract locality requires archaeological evaluations of at least 10% of the total 3060 acre study zone in order to assess its potential for containing significant resources that could be adversely affected by future subsidence activities related to the proposed mining program.

This evaluation therefore consists of a Class II or stratified sample survey of the 3060 acre study zone. That 3060 study zone subdivides into three separate units. These units include 2060 acres in the Alkali Lease Tract, 400 acres within the Section 2 tract, and 600 acres within a .25 mile-wide buffer zone around the western and northern peripheries of the Alkali Tract.

Of these 3060 total acres, AERC archaeologists, Glade Hadden and F.R. Hauck intensively examined 335 acres or 11% of the total study area. Records in the Utah State Antiquities Section indicate that an additional 40 acres in the study area have been previously inventoried (Utah Permit G-700-4); the original report of that early survey is missing from the State files and cannot be examined or further cited. With the addition of this 40 acre parcel (see Map 3 for location), the total evaluated acreage increases to 375 acres or 12.25% of the 3060 acre study zone.

AERC's Class II sample survey of the 3060 acre study zone was non-randomly selected due to the limited amount of acreage that is accessible for archaeological evaluation; perhaps 80% of the surfaces within the study area consists of escarpments associated with the Book Cliffs. Thus, AERC's intensive evaluations were confined to the upper ridges and escarpment crests -- those accessible localities where prehistoric and historic activities could have occurred (cf., Maps 3 and 4).

All evaluated areas are situated on privately owned land. The majority of the survey area acreage is owned by the Iriart brothers of Price, Utah.

The purpose of the field study and this report is to identify and document cultural resource presence and assess National Register potential significance relative to established criteria

**MAP 1: GENERAL PROJECT  
LOCALITY IN CARBON COUNTY  
UTAH**

**PROJECT:** CSEC - 95 - 2  
**SCALE:** see below  
**QUAD:** UG & MS Map 43  
**DATE:** July 5, 1995



T. multiple

R. multiple

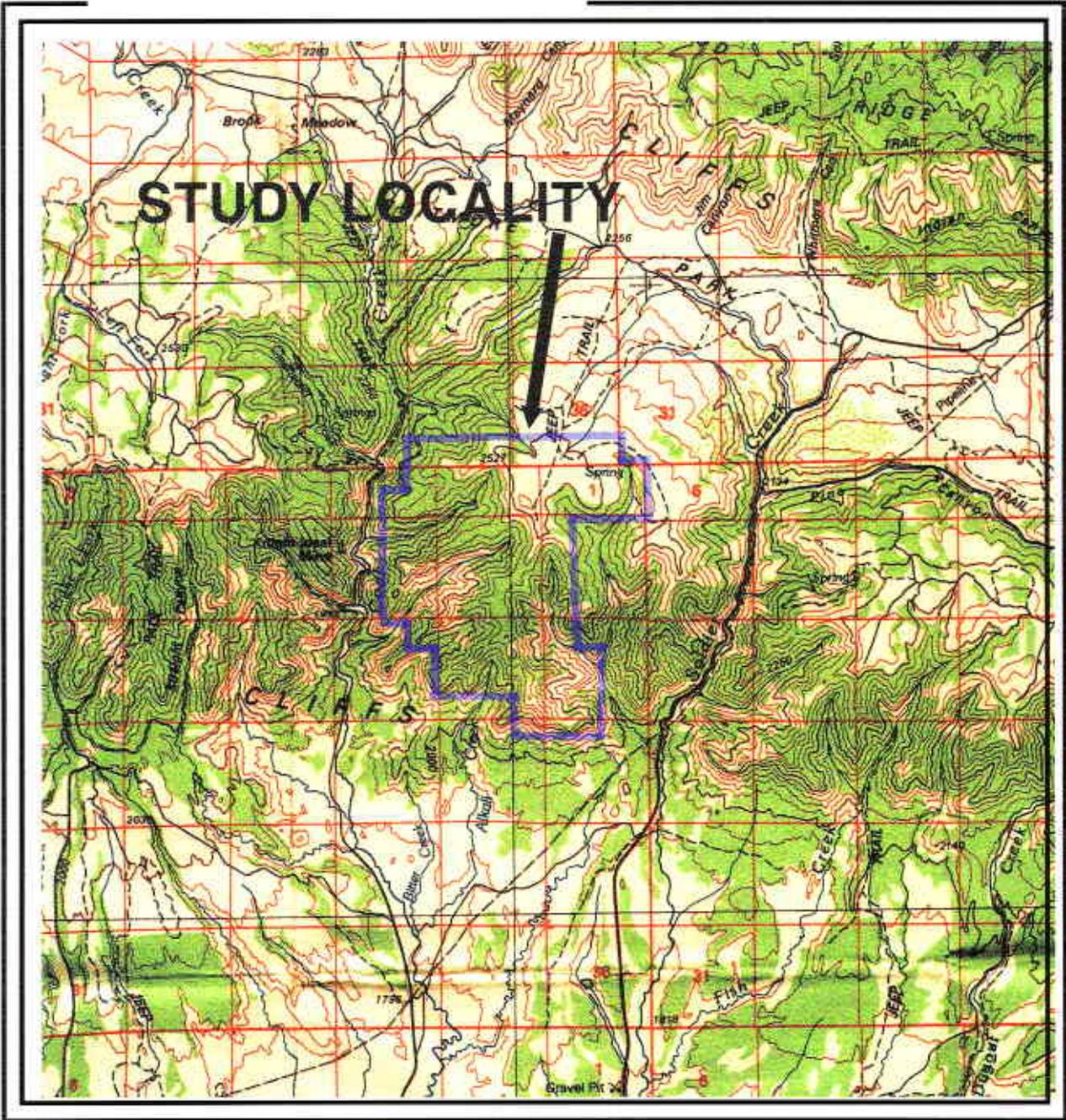
Meridian: Salt Lake B & M

(After PHYSIOGRAPHIC SUBDIVISIONS  
OF UTAH by W.L. Stokes)

**MAP 2: GENERAL STUDY AREA  
IN THE BOOK CLIFFS  
LOCALITY OF CARBON  
COUNTY, UTAH**



**PROJECT:** CSEC - 95 - 2  
**SCALE:** 1: 100,000  
**QUAD:** Price - U.S. Geological Survey  
**DATE:** July 5, 1995



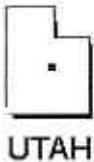
**LEGEND:**

T. 12 & 13 South

R. 11 & 12 East

(see above)

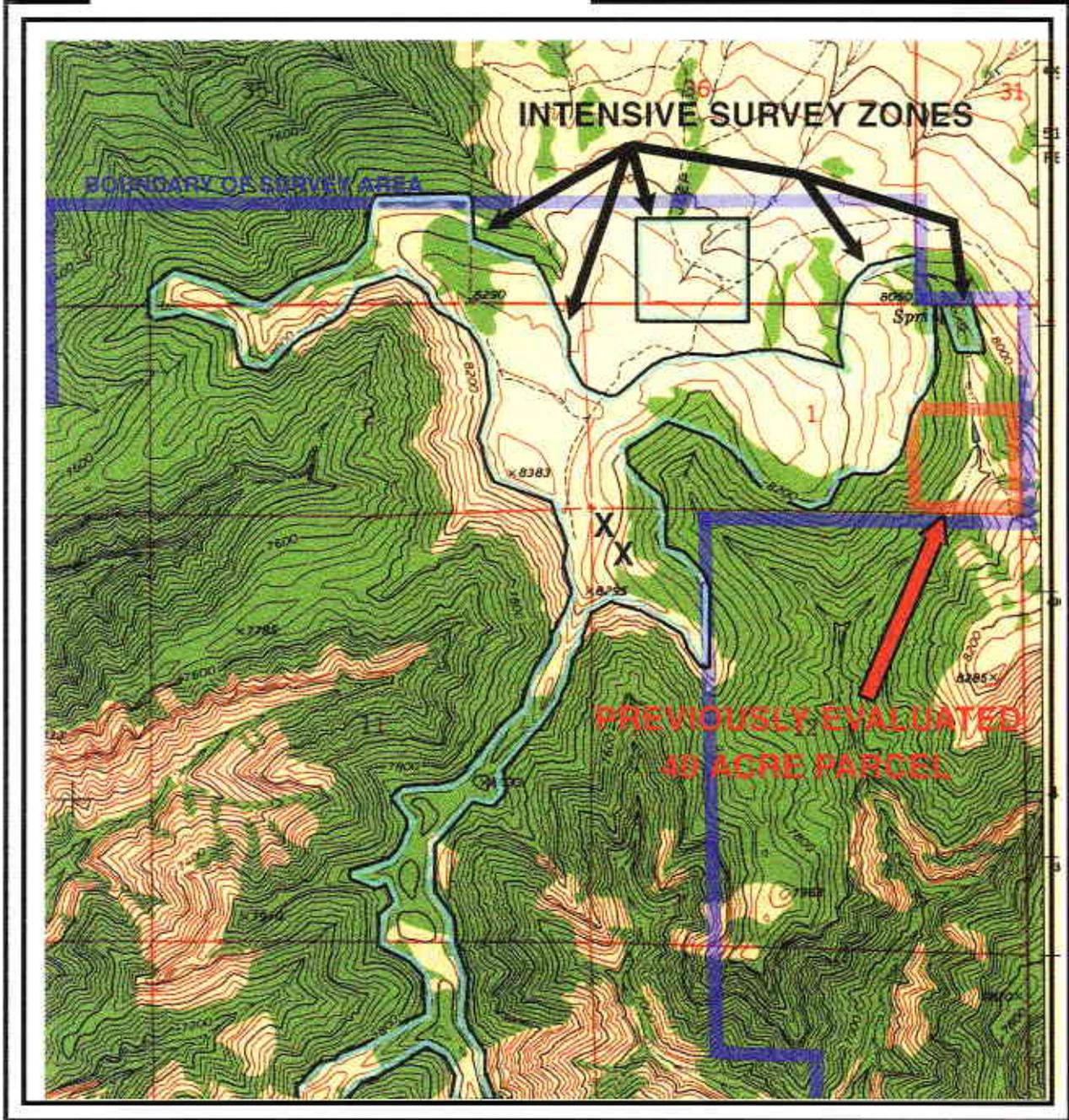
Meridian: Salt Lake B & M



**MAP 3: CULTURAL RESOURCE SURVEY  
OF SELECTED SURFACES WITHIN THE  
ALKALI TRACT IN THE BOOK CLIFFS  
LOCALITY OF CARBON  
COUNTY, UTAH**

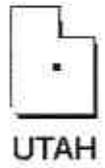


**PROJECT:** CSEC - 95 - 2  
**SCALE:** 1: 24,000  
**QUAD:** Deadman Canyon, Utah  
**DATE:** July 5, 1995



**LEGEND:**

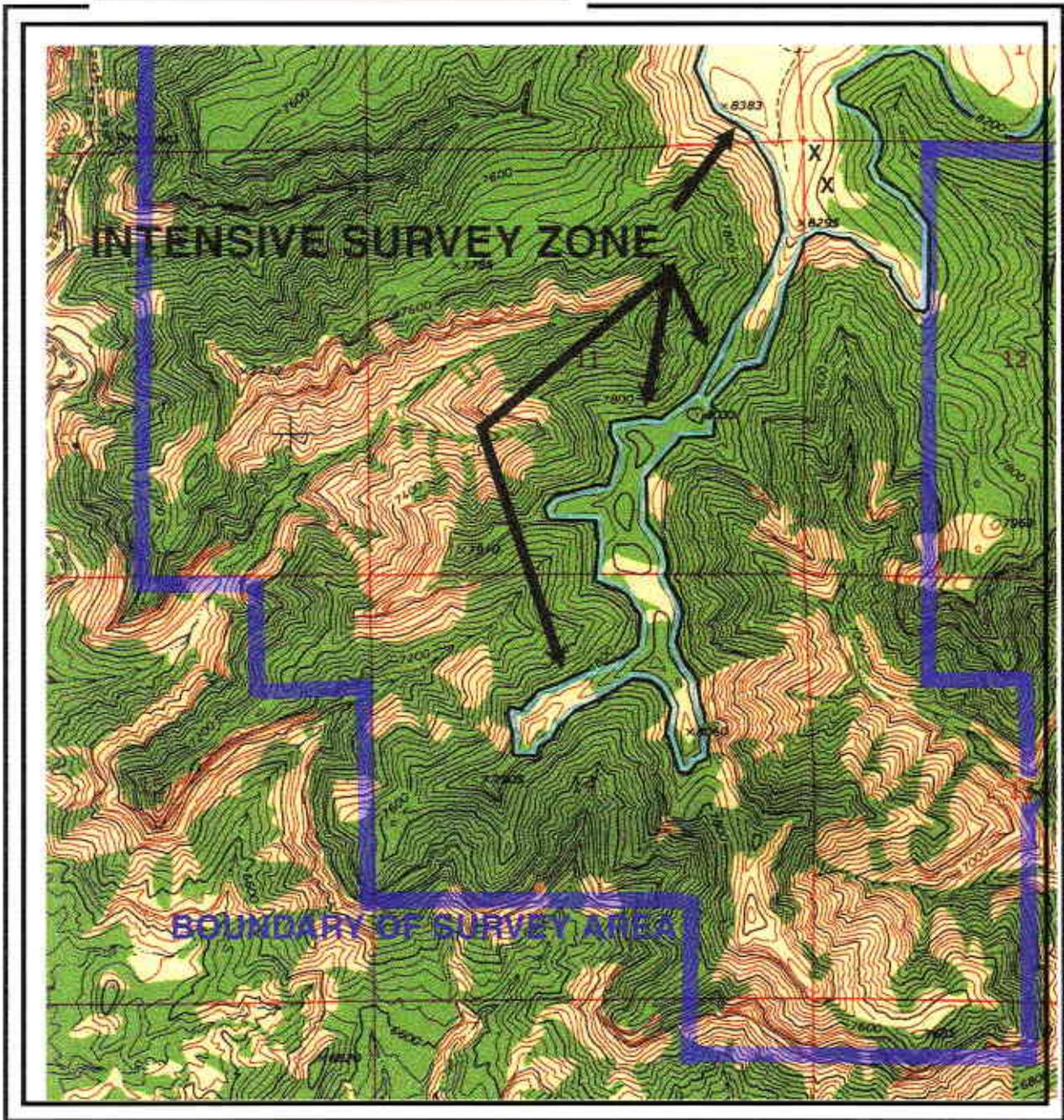
- T. 12 & 13 South
- R. 11 & 12 East
- Meridian: Salt Lake B & M
- Isolated Artifact X



**MAP 4: CULTURAL RESOURCE SURVEY  
OF SELECTED SURFACES WITHIN THE  
ALKALI TRACT IN THE BOOK CLIFFS  
LOCALITY OF CARBON  
COUNTY, UTAH**



**PROJECT:** CSEC - 95 - 2  
**SCALE:** 1: 24,000  
**QUAD:** Deadman Canyon, Utah  
**DATE:** July 5, 1995



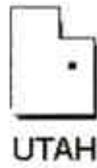
**LEGEND:**

T. 13 South

R. 11 East

Meridian: Salt Lake B & M

Isolated Artifact X



(cf., Title 36 CFR 60.6). The proposed development of the coal reserves within the Alkali Tract requires an archaeological evaluation in compliance with U.C.A. 9-8-404, the Federal Antiquities Act of 1906, the Reservoir Salvage Act of 1960-as amended by P.L. 93-291, Section 106 of the National Historic Preservation Act of 1966-as amended, the National Environmental Policy Act of 1969, the Federal Land Policy and Management Act of 1979, the Archaeological Resources Protection Act of 1979, the Native American Religious Freedom Act of 1978, the Historic Preservation Act of 1980, and Executive Order 11593.

In addition to documenting cultural identity and significance, mitigation recommendations relative to the preservation of cultural data and materials can be directed to the Utah State Antiquities Section. This work was done under U.S. Department of Interior Permit for Utah UT-95-54937 which expires on January 31, 1996.

### **Project Location**

The project area is located in the Book Cliff escarpment and canyon complex northeast of Price in Carbon County, Utah (see Maps 1-4). The study zone is situated on the Deadman Canyon, Utah 7.5 minute topographic quad.

The Class II sample survey area was confined to the top and upper ridgelines associated with the Book Cliffs simply because that locality was the most accessible of the entire Alkali Tract lease area and because that is the only locality where significant prehistoric and historic occupations are likely to occur within the entire permit area; the majority of the Alkali Tract area contains escarpments associated with Coal Creek and Alkali Creek canyons to the west and southwest and an unnamed canyon to the east.

Portions of the sample survey area are in the southern half of Sections 35 and 36, Township 12 South Range 11 East (see Map 3). The majority of the evaluated area is on the top and crest of the Book Cliffs in Sections 1, 2, 11, and 12 of Township 13 South, Range 11 East (see Map 3). Narrow ridge tops were also examined in Section 35 (Township 12 South, Range 11 East), and Sections 11, and 14 of Township 13 South, Range 11 East as shown on Maps 3 and 4.

### **Environmental Description**

The Alkali Tract general study area ranges in elevation between 6900 and 8383 feet above sea level. The sample survey area was confined to the 7800 to 8383 elevations.

The vegetation in the project area is characterized by Aspen communities on the upper well-watered terraces and ridges. Pinyon/Juniper woodland and associated rangeland vegetation including Chrysothamnus spp., Artemisia spp., and a variety of grasses and flowers are most common on the south-facing slopes. Cliffrose (Cowania stansburiana), Ash (Fraxinus spp.), Squawbush (Rhus trilobata), Oak (Quercus spp.) and Sarvisberry (Amelanchier utahensis) are the dominant species encountered within the drainages and sandstone ledges.

The geological association within this project area consists of the Cretaceous age Price River Formation, Castlegate Sandstone Formation, and Blackhawk Group (Hintze 1973; Stokes 1986).

## **PREVIOUS RESEARCH IN THE LOCALITY**

### **File Search**

A records search of the site files and maps at the Antiquities Section of the State Historic Preservation Office in Salt Lake City was conducted on March 21, 1995. The National Register of Historic Places has been consulted and no registered historic or prehistoric properties will be affected by the proposed development.

Previous archaeological research in the region has revealed the presence of extensive archaeological loci in Ninemile Canyon. AERC's 1979-1980 evaluations in nearby Sage Point-Dugout Creek locality identified a fairly high density of prehistoric activity loci in those lower elevations at the base of the Book Cliffs (Hauck and Weder 1980). More recently, various archaeologists have conducted evaluations related to the Soldier Creek Coal Mine development (see Berry 1984 and Black and Metcalf 1986). Those examinations included canyon floors and highland crests and ridges. Sites recorded during those inventories were also found to be associated with the lower elevations in the canyon bottoms below the Book Cliff escarpments.

## **Prehistory and History of the Cultural Region**

Currently available information indicates that the northern Colorado Plateau Cultural Region has been occupied by a variety of cultures beginning perhaps as early as 10,000 B.C. These cultures, as identified by their material remains, demonstrate a cultural developmental process that begins with the earliest identified Paleoindian peoples (10,000 -- 7,000 B.C.) and extends through the Archaic (ca. 7,000 B.C. -- A.D. 300), and Formative (ca. A.D. 400 -- 1200) Stages, and the Late Prehistoric-Protohistoric periods

(ca. A.D. 1200 -- 1850) to conclude in the Historic-Modern period which was initiated with the incursion of the Euro-American trappers, explorers, and settlers. Basically, each cultural stage -- with the possible exception of the Late Prehistoric hunting and gathering Shoshonean bands -- features a more complex life-way and social order than occurred during the earlier stage of development (Hauck 1991:53).

For a more comprehensive treatment of the prehistory and history of this region see Archaeological Evaluations in the Northern Colorado Plateau Cultural Area (Hauck 1991), Prehistory of Utah and the Eastern Great Basin (Jennings 1978), and Cultural Resource Evaluation in Central Utah -- 1977 (Hauck 1979).

## **FIELD EVALUATIONS**

### **Methodology**

Since the study area was determined to consist of 3060 acres with at least 80% of those surfaces inaccessible escarpments and narrow canyon channels, the 10% sample acreage (ca. 306 acres) was directed toward the more accessible highlands that are situated in the northern portion of the Alkali Tract (see Maps 2 and 3). AERC's past experience in similar highland terrains on the Book Cliffs, Tavaputs Plateau, and Wasatch Plateau has demonstrated that canyon rims and associated seep locations have the greatest potential for containing prehistoric activity loci; thus, the sample survey acreage was coordinated with those general surface conditions in the Alkali Tract on the top of the Book Cliffs.

The intensive evaluation of the Class II sample area was accomplished by the archaeologists walking a series of 5 to 25 meter wide transects across the surface within the sample survey area as shown on Maps 3 and 4. The width of the transects varied depending on slope, aspect, and ground cover. Localities having a moderate potential for containing cultural resource presence were subjected to transects of less than 12 meters in width.

Between 60 and 70% of the surface within the sample area was found to be obscured by the dense ground cover resulting from a long, damp spring. In addition, road blading along the canyon rim, rodent bioturbation, and agricultural activities, e.g., sheep bedding, have further altered certain surfaces which may have once contained limited archaeological materials. Because of these difficulties, much of the sample survey area was not easily evaluated for general archaeological presence.

Surface subsidence is the primary concern relative to Utah Fuel Company's future mining activities in the Alkali Tract.

Surface subsidence is most disruptive to those types of historic and prehistoric sites that contain complex associations of cultural context, i.e., standing architecture, spatially displayed activity units, and/or buried stratigraphic sequences including materials, features, and occupation levels. Although the ground cover and surface conditions complicated the sample survey, the archaeologists were able to easily ascertain the presence and potential for these types of significant cultural remains.

Observation of cultural materials results in intensive examinations to determine the nature of the resource (isolate or activity locus). The analysis of each specific cultural site results in its subsequently being sketched, photographed, and appropriately recorded on the standard Intermountain Antiquities Computer System (IMACS) forms. Cultural sites are then evaluated for significance utilizing the standards described below and mitigation recommendations are considered as a means of preserving significant resources which may be situated within the sample survey area.

### **Site Significance Criteria**

Prehistoric and historic cultural sites which can be considered as eligible for nomination to the National Register of Historic Places have been outlined as follows in the National Register's Criteria for Evaluation as established in Title 36 CFR 60.6: *The quality of significance in American ... archaeology ... and culture is present in ... sites ... that possess integrity of location, design, setting, materials, workmanship, feeling, and association and:*

- a. *That are associated with events that have made a significant contribution to the broad patterns of our history; or*
- b. *that are associated with the lives of persons significant in our past; or*
- c. *that embody the distinctive characteristics of a type, period, or method of construction ... ; or*
- d. *that have yielded, or may be likely to yield, information important in prehistory or history.*

In addition to satisfying one or more of these general conditions, a significant cultural resource site in Utah will generally be considered as being eligible for inclusion in the National Register if it should advance our current state of knowledge relating to chronology, cultural relationships, origins, and cultural life ways of prehistoric or historic groups in the area.

In a final review of any site's cultural significance, the site must possess integrity and at least one of the above criteria to be considered eligible for nomination to the National Record of Historic Places.

### **Results of the Inventory**

No prehistoric or historic cultural resource activity loci were observed and recorded during AERC's current archaeological evaluations.

Two isolated artifacts were observed within the development area (see Maps 3 and 4). These isolates are a white-gray chert primary flake exhibiting cortex and a white chert secondary flake. Both artifacts are found on the east-facing slope directly above the loci where other similar identifications were made during an earlier archaeological survey that was conducted outside but immediately adjacent to the present Alkali Tract survey area (cf., Berry 1984). The presence of four isolated artifacts on the same ridge complex suggests that this terrain feature may have been anciently utilized as a transportation corridor linking the lower elevations with the Whitmore Park highland directly to the north. Both isolates were left in their original position as agreed with the local landowners.

No paleontological loci were observed or recorded during the evaluation.

### **CONCLUSION AND RECOMMENDATIONS**

No significant historic or prehistoric cultural resources that could be susceptible to surface subsidence were observed within the sample survey area during the archaeological inventory.

The limited surveys conducted to-date in the highland environments on the top of the Book Cliffs have tended to produce negative results; the prehistoric inhabitants of the Price River basin and Ninemile Canyon localities evidently utilized the highlands associated with the top of the Book Cliff escarpments as occasional and specific resource procurement zones and not as base camps or summer occupation areas.



F. Richard Hauck, Ph.D.  
President and Principal  
Investigator

## REFERENCES

Berry, Claudia F.

- 1984 "A Cultural Resource Survey of Selected Portions of the Soldier Canyon Mine Lease Area." International Learning and Research, Inc., Cedar City.

Black, Kevin D. and Michael D. Metcalf

- 1986 "Cultural Resources [783.129b0]." Soldier Creek Coal Mine Environmental Impact Statement, Metcalf Archaeological Consultants, Eagle, Colorado.

Hauck, F. Richard

- 1979 Cultural Resource Evaluation in Central Utah -- 1977. Cultural Resource Series, No. 3, Bureau of Land Management, Salt Lake City.

- 1980 Intensive Archaeological Surface Evaluations of the Proposed Sage Point-Dugout Canyon Project in Carbon County, Utah. AERC Paper No. 19, Archeological-Environmental Research Corporation, Bountiful.

- 1991 Archaeological Evaluations on the Northern Colorado Plateau Cultural Area, AERC Paper No. 45, Archeological-Environmental Research Corporation, Bountiful.

Hintze, Lehi F.

- 1973 "Geologic History of Utah." Brigham Young University Geology Studies, Vol. 20, Pt. 3, Provo.

Jennings, Jesse D.

- 1978 "Prehistory of Utah and The Eastern Great Basin." University of Utah Anthropological Papers Number 98. University of Utah Press, Salt Lake City.

- 1989 Prehistory of North America. Third Edition, Mayfield Publishing Company, Mountain View, California.

Stokes, W.L.

- 1977 Physiographic Subdivisions of Utah. Map 43, Utah Geological and Mineral Survey, Salt Lake City.

- 1986 "Geology of Utah." Occasional Paper Number 6 of the Utah Museum of Natural History, University of Utah, Salt Lake City.

**CULTURAL RESOURCE EVALUATION  
OF PROPOSED DRILLHOLES &  
SEISMIC LINE CORRIDORS IN THE  
UPPER HUNTINGTON CANYON &  
WINTERQUARTERS RIDGE LOCALITIES OF  
SANPETE & CARBON COUNTIES, UTAH**

Report Prepared for  
Coastal Energy Corporation/Utah Fuel Company



**ARCHEOLOGICAL-ENVIRONMENTAL RESEARCH  
CORPORATION (AERC)**

Principal Investigator & Author of Report  
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**CULTURAL RESOURCE EVALUATION  
OF PROPOSED DRILLHOLES &  
SEISMIC LINE CORRIDORS IN THE  
UPPER HUNTINGTON CANYON &  
WINTERQUARTERS RIDGE LOCALITIES OF  
SANPETE & CARBON COUNTIES, UTAH**

Report Prepared for  
Coastal Energy Corporation/Utah Fuel Company

Manti-LaSal National Forest Special-Use Permit  
AERC Project 1470 (CSEC-95-1)

Utah State Project No.: UT-95-AF-252pf

Principal Investigator & Author of Report  
F. Richard Hauck, Ph.D.



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July 5, 1995

## **ABSTRACT**

An intensive cultural resource evaluation has been conducted for Coastal Energy Corporation/Utah Fuel Company of three potential drillhole locations (**95-21-1**, **95-28-1**, and **95-33-1**) in the Upper Huntington Canyon locality and three proposed seismic line corridors (**A**, **B**, and **C**) in the adjacent Winterquarters Ridge locality of Sanpete and Carbon Counties, Utah. This evaluation involved one acre associated with the three drillhole sites and 24.8 acres associated with the three seismic line corridors which range in length from 1.5 miles (Line A), and .83 mile (Line B), to 1.78 miles (Line C).

These evaluations were conducted by F. Richard Hauck of AERC on June 28, 1995.

No previously recorded significant or National Register eligible cultural resources will be adversely effected by the proposed developments.

No isolated artifacts were observed during the evaluation.

No paleontological loci were identified during the evaluation.

No newly identified cultural resource activity loci were discovered and recorded during the examination.

AERC recommends project clearance based on adherence to the stipulations noted in the final section of this report.

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## **GENERAL INFORMATION**

On June 28, 1995, AERC archaeologist F. Richard Hauck conducted an intensive cultural resource evaluation within the Winterquarters Ridge and Upper Huntington Canyon localities of Carbon and Sanpete Counties Utah (see Maps 1 through 5). This project was initiated for Coastal Energy Corporation/Utah Fuel Company of Helper, Utah.

This examination involved three proposed drillhole locations (95-21-1, 95-28-1, and 95-33-1) in the Upper Huntington Canyon locality and three proposed seismic line corridors (A, B, and C) in the adjacent Winterquarters Ridge locality of Sanpete and Carbon Counties, Utah. This evaluation involved one acre associated with the three drillhole sites and 24.8 acres associated with the three seismic line corridors which range in length from 1.5 miles (Line A), and .83 mile (Line B), to 1.78 miles (Line C) (see Map).

All evaluated areas are situated on both private lands and National Forest lands administered by the Price Ranger District of the Manti-LaSal National Forest.

The purpose of the field study and this report is to identify and document cultural resource presence and assess National Register potential significance relative to established criteria (cf., Title 36 CFR 60.6). The development of the proposed drillholes and seismic corridors requires an archaeological evaluation in compliance with U.C.A. 9-8-404, the Federal Antiquities Act of 1906, the Reservoir Salvage Act of 1960-as amended by P.L. 93-291, Section 106 of the National Historic Preservation Act of 1966-as amended, the National Environmental Policy Act of 1969, the Federal Land Policy and Management Act of 1979, the Archaeological Resources Protection Act of 1979, the Native American Religious Freedom Act of 1978, the Historic Preservation Act of 1980, and Executive Order 11593.

In addition to documenting cultural identity and significance, mitigation recommendations relative to the preservation of cultural data and materials are directed to the Manti-LaSal National Forest, for federal lands, and to the Utah State Antiquities Section. This work was done under a Forest Service Special-Use Permit.

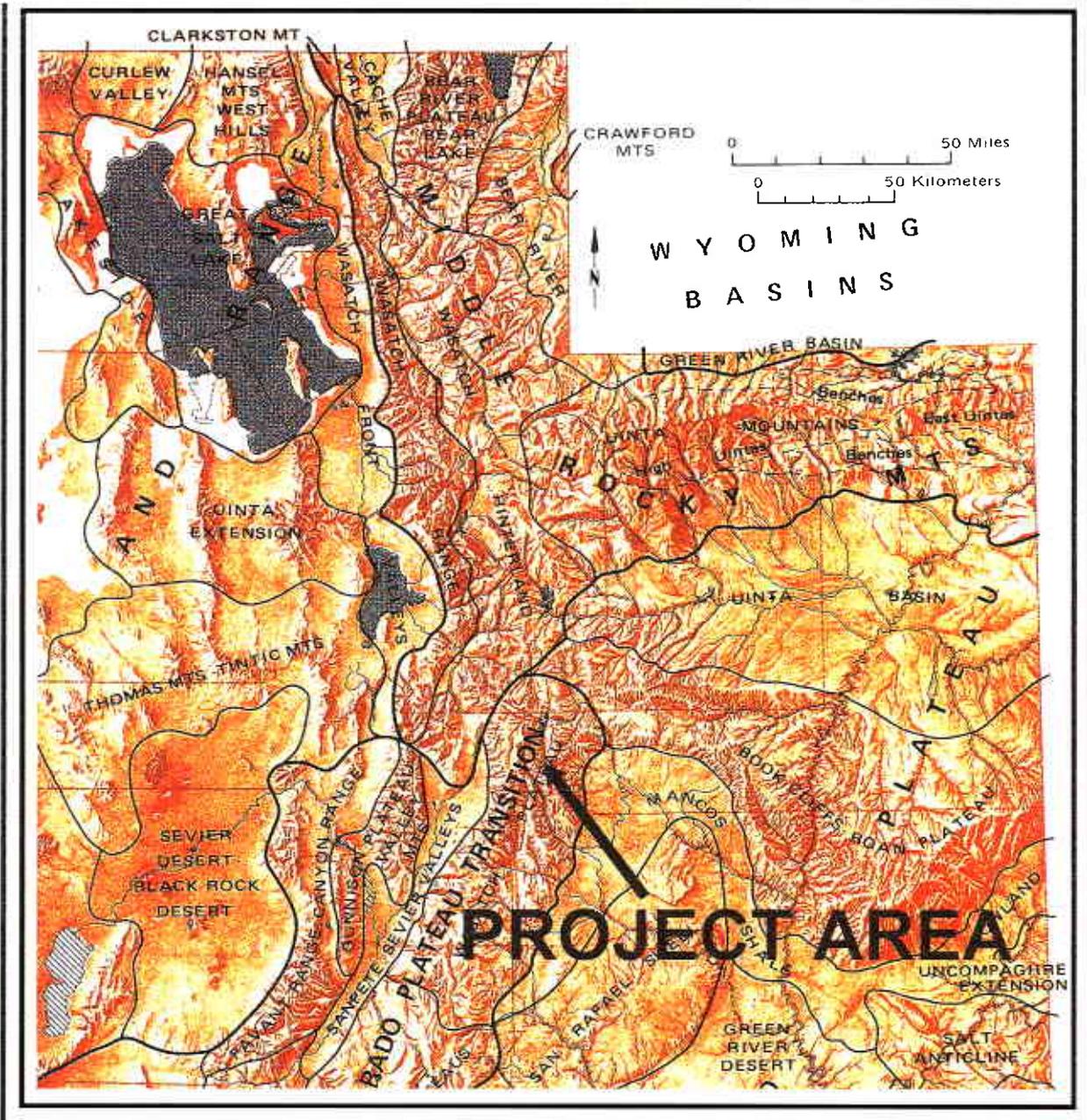
## **Project Location**

The three drillholes are situated on the tributary canyon floors and/or slopes associated with the Upper Huntington Canyon complex. Drill Unit 95-21-1 is in Little Swens Canyon in the NE of the SW of Section 21, Township 13 South, Range 6 East. This location is above the existing roadway on the north slope of

**MAP 1: GENERAL PROJECT  
LOCALITY IN  
CARBON & SANPETE COUNTIES  
UTAH**



**PROJECT: CSEC - 95 - 1**  
**SCALE: see below**  
**QUAD: UG & MS Map 43**  
**DATE: July 5, 1995**



**UTAH**

**T. multiple**

**R. multiple**

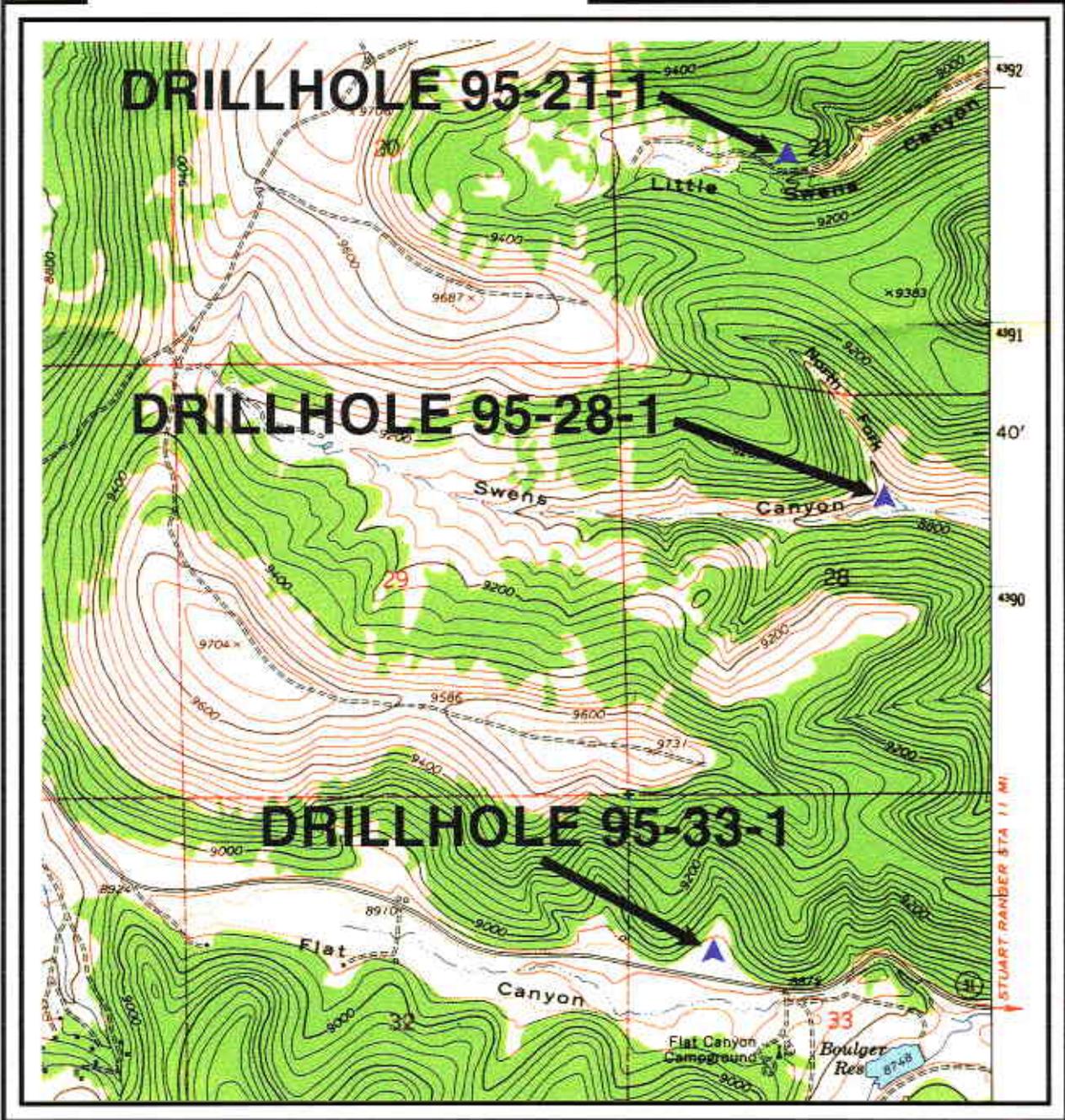
**Meridian: Salt Lake B & M**

**(After PHYSIOGRAPHIC SUBDIVISIONS  
OF UTAH by W.L. Stokes)**

**MAP 2: CULTURAL RESOURCE SURVEY  
 OF PROPOSED DRILLHOLE  
 LOCATIONS 95-21-1, 95-28-1 & 95-33-1  
 IN THE UPPER HUNTINGTON CANYON  
 LOCALITY OF  
 SANPETE COUNTY, UTAH**



**PROJECT:** CSEC - 95 - 1  
**SCALE:** 1: 24,000  
**QUAD:** Fairview Lakes, Utah  
**DATE:** July 5, 1995



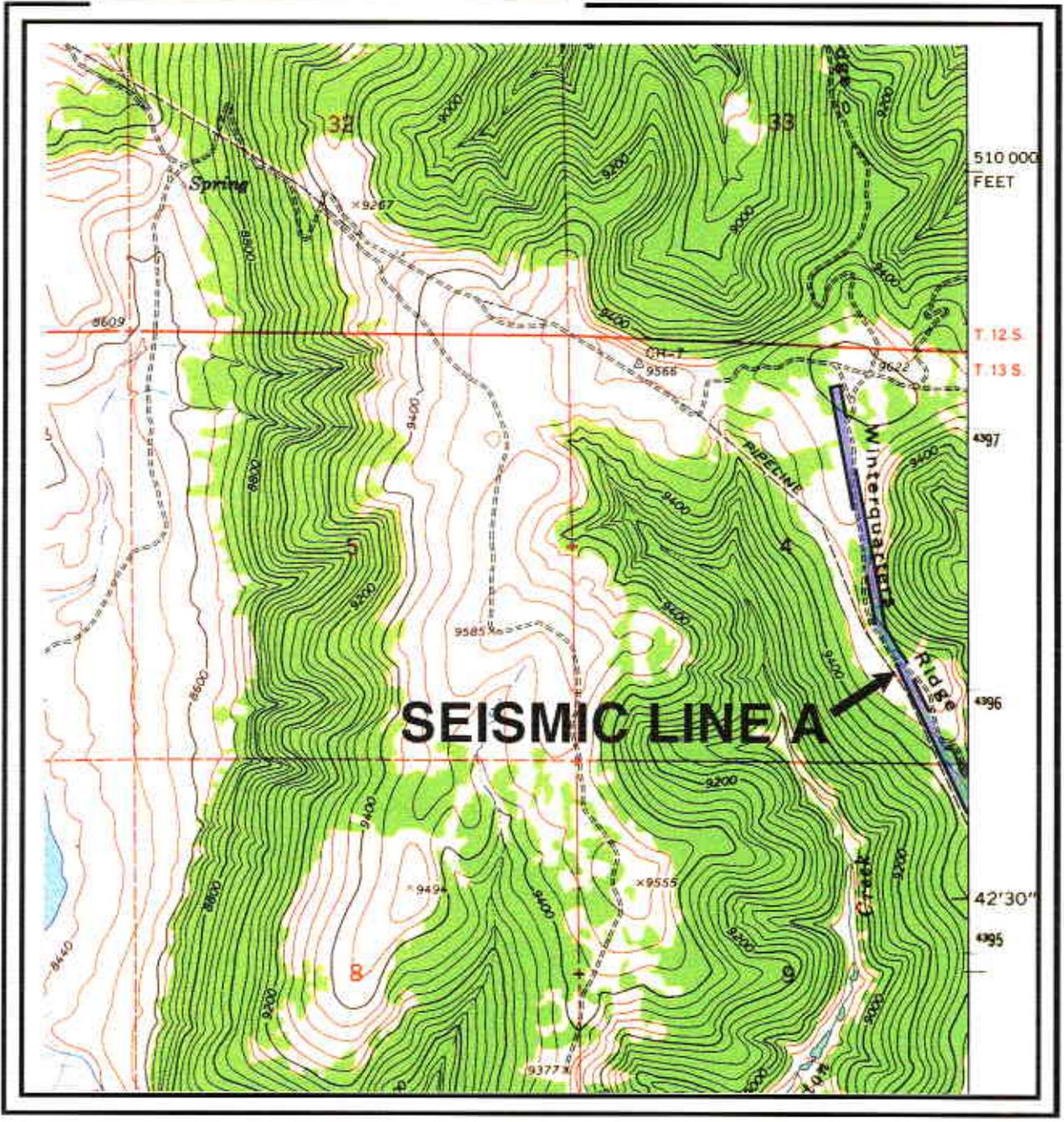
T. 13 South  
 R. 6 East  
 Meridian: Salt Lake B & M

**LEGEND:**  
 Drillhole Location ▲

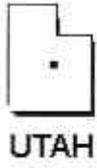
**MAP 3: CULTURAL RESOURCE SURVEY  
OF PROPOSED SEISMIC LINE A  
IN THE WINTERQUARTERS RIDGE  
LOCALITY OF  
SANPETE COUNTY, UTAH**



**PROJECT:** CSEC - 95 - 1  
**SCALE:** 1: 24,000  
**QUAD:** Fairview Lakes, Utah  
**DATE:** July 5, 1995



**LEGEND:**  
 (see above)

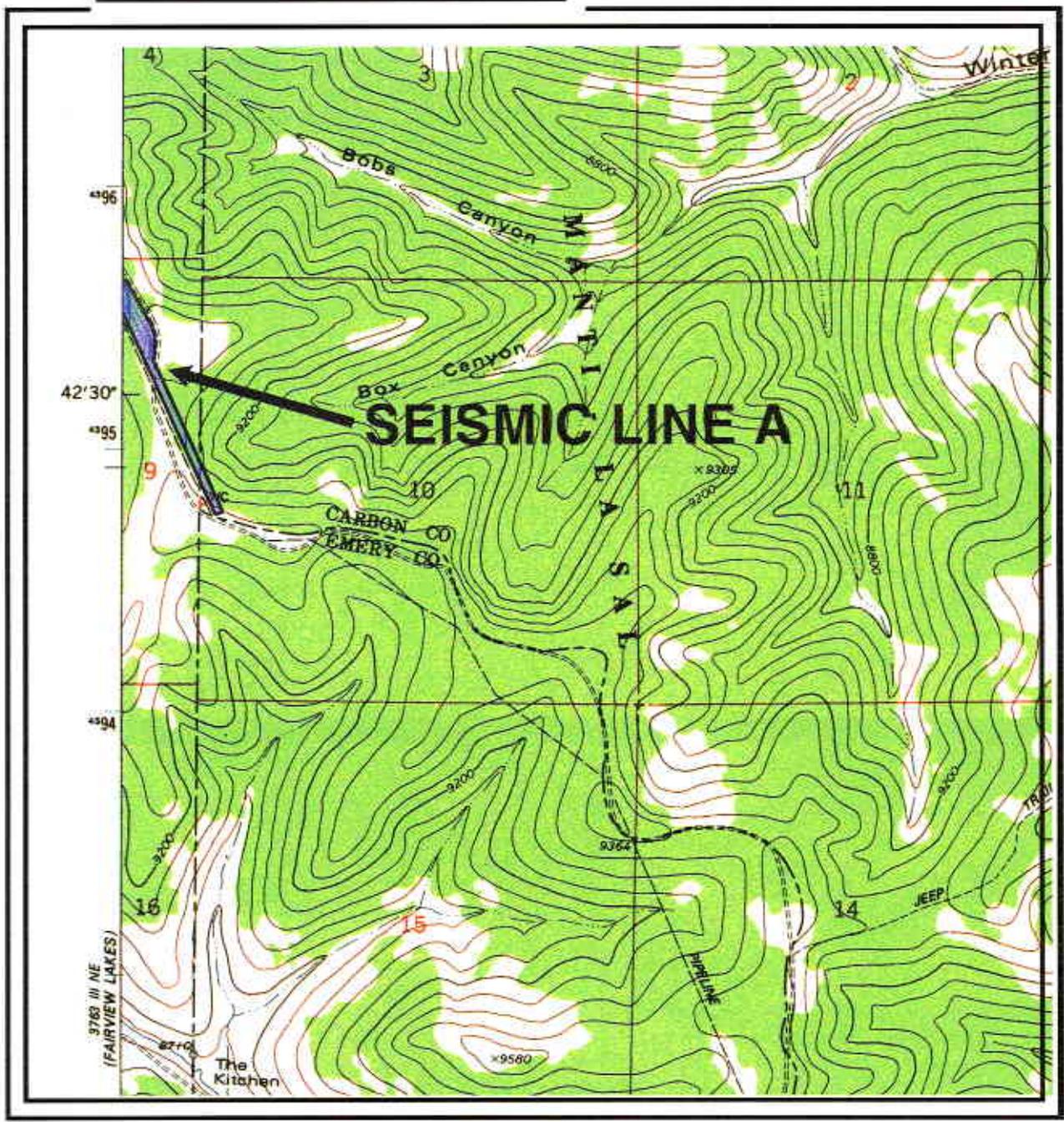


T. 13 South  
 R. 6 East  
 Meridian: Salt Lake B & M

**MAP 4: CULTURAL RESOURCE SURVEY  
OF PROPOSED SEISMIC LINE A  
IN THE WINTERQUARTERS RIDGE  
LOCALITY OF CARBON &  
SANPETE COUNTIES, UTAH**



**PROJECT:** CSEC - 95 - 1  
**SCALE:** 1: 24,000  
**QUAD:** Scofield, Utah  
**DATE:** July 5, 1995



**LEGEND:**

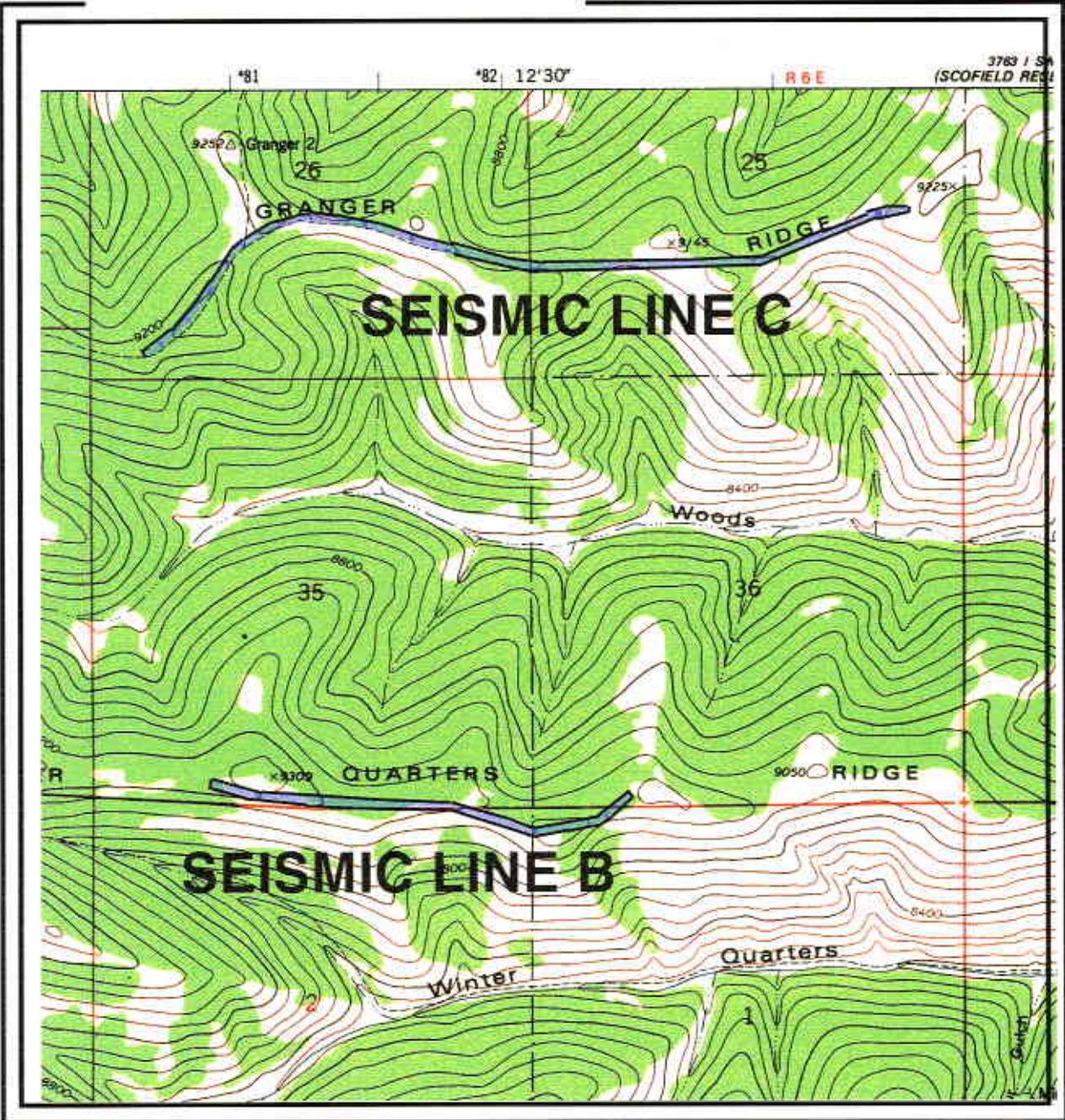


T. 13 South  
R. 6 East  
Meridian: Salt Lake B & M

(see above)

**MAP 5: CULTURAL RESOURCE SURVEY  
OF PROPOSED SEISMIC LINES B & C  
IN THE WINTERQUARTERS RIDGE  
LOCALITY OF CARBON  
COUNTY, UTAH**

**PROJECT:** CSEC - 95 - 1  
**SCALE:** 1: 24,000  
**QUAD:** Scofield, Utah  
**DATE:** July 5, 1995



**LEGEND:**

T. 12 & 13 South

(see above)

R. 6 East

Meridian: Salt Lake B & M



UTAH

the canyon wall. A 35 meter radius around the staked drillhole position was examined for cultural resource presence (see Map 2).

Drill Unit 95-28-1 is in Swens Canyon in the SW of the NE of Section 28, Township 13 South, Range 6 East. This location is above the existing roadway at the entrance of a side canyon. A 35 meter radius around the staked drillhole position was examined for cultural resource presence (see Map 2).

Drill Unit 95-33-1 is in Flat Canyon in the SW of the NW of Section 33, Township 13 South, Range 6 East. This location is on a flat ca. 40 meters north of the paved highway (see Map 2). A 20 meter-wide access route linking the staked drillhole center with the existing roadway (not shown on the attached map) was also examined. A 35 meter radius around the staked drillhole position was examined for cultural resource presence.

The three proposed seismic lines (A, B, and C) are situated to the northwest of the drillholes on top of the Winterquarters Ridge complex (see Maps 3, 4 and 5). Seismic Line A extends for ca. 1.5 miles on the top of Winterquarters Ridge in a northwest to southeast orientation; this line is in both Sanpete and Carbon Counties. Line A begins in the NE quarter of Section 4 (Township 13 South, Range 6 East) and passes through the eastern half of adjacent Section 9 to terminate in the NW of the SW of adjacent Section 10. The width of the evaluation for this line varied according to topographic factors and ground visibility from a standard 20 meter-wide corridor to a width of 45 meters (see Maps 3 and 4).

Seismic Line B is to the east and down-slope from Line A; it also is on Winterquarters Ridge (see Map 5). This line extends for ca. .83 mile and an east-west orientation along the top of the razorback ridge. Line B begins in the SE of the SW of Section 35 and parallels the section line between Section 35 and adjacent Section 2 (Township 13 South) passing through the NW corner of Section 1 to terminate in the SW of the SW of Section 36. A 20 meter-wide corridor was evaluated on this surface which has been previously examined by AERC during two earlier archaeological evaluations (see Hauck 1978 and Hauck 1991a).

Seismic Line C covers ca. 1.78 miles in length running in a west to east orientation along the top of Granger Ridge (see Map 5). This line begins in the SW of the SW of Section 26, Township 12 South, Range 6 East. It extends to the northeast paralleling the existing roadway then passes through the SE quarter of that section and the southern half of adjacent Section 25 to terminate in the NE of the SE of Section 25. A 20 to 40 meter-wide corridor was examined along this line, survey width dependent on ground cover visibility and topography.

The three drillhole locations and the northwestern portion of Seismic Line A are on the Fairview Lakes 7.5 minute topographic quad. The southeastern portion of Seismic Line A and Lines b and C are all on the Scofield 7.5 minute quad.

### **Environmental Description**

The drillhole portions of the project area are situated between the 8750 and 9100 foot elevation zones above sea level. Narrow canyon wall and floor terrain surfaces are associated with these three locations (see Map 2). The three seismic line corridors are situated between the 9000 and 9600 foot elevations.

The vegetation in the project area is characterized by assorted Douglas Fir, Ponderosa, and Aspen woodland and associated vegetation usually found within the Canadian ecozone.

The geological association within this project area consists of the Cretaceous age Price River, Castlegate Sandstone and Blackhawk Group (Hintze 1973; Stokes 1986).

### **PREVIOUS RESEARCH IN THE LOCALITY**

#### **File Search**

A records search of the site files and maps at the Antiquities Section of the State Historic Preservation Office in Salt Lake City was conducted on March 21, 1995. The National Register of Historic Places has been consulted and no registered historic or prehistoric properties will be affected by the proposed developments.

Previous archaeological research in the locality has revealed the presence of very few archaeological loci. AERC has been conducting archaeological evaluations within this project area since 1975; historic sites associated with mining or travel through the canyons have been found; isolated prehistoric artifacts have occasionally been identified and recorded (cf., Hauck and Weder 1980, Hauck 1991b).

### **Prehistory and History of the Cultural Region**

Currently available information indicates that the Wasatch Plateau has been occupied by a variety of cultures beginning perhaps as early as 10,000 B.C. These cultures, as identified by their material remains, demonstrate a cultural developmental

process that begins with the earliest identified Paleoindian peoples (10,000 -- 7,000 B.C.) and extends through the Archaic (ca. 7,000 B.C. -- A.D. 300), and Formative (ca. A.D. 400 -- 1200) Stages, and the Late Prehistoric-Protohistoric periods (ca. A.D. 1200 -- 1850) to conclude in the Historic-Modern period which was initiated with the incursion of the Euro-American trappers, explorers, and settlers. Basically, each cultural stage -- with the possible exception of the Late Prehistoric hunting and gathering Shoshonean bands -- features a more complex life-way and social order than occurred during the earlier stage of development (Hauck 1991c:53).

For a more comprehensive treatment of the prehistory and history of this region see Archaeological Evaluations in the Northern Colorado Plateau Cultural Area (Hauck 1991c), Prehistory of Utah and the Eastern Great Basin (Jennings 1978), and Cultural Resource Evaluation in Central Utah -- 1977 (Hauck 1979).

## **FIELD EVALUATIONS**

### **Methodology**

The intensive evaluation associated with the three proposed drillhole sites and associated access route consisted of the archaeologist walking a series of 5 to 10 meter wide transects across the surface within a 35 meter radius around the proposed development zone. In order to evaluate the three proposed seismic line corridors, the archaeologist walked a series of 10 to 20 meter-wide transects along those staked routes.

Observation of cultural materials results in intensive examinations to determine the nature of the resource (isolate or activity locus). The analysis of each specific cultural site results in its subsequently being sketched, photographed, and appropriately recorded on the standard Intermountain Antiquities Computer System (IMACS) forms. Cultural sites are then evaluated for significance utilizing the standards described below and mitigation recommendations are considered as a means of preserving significant resources which may be situated within the development zone.

### **Site Significance Criteria**

Prehistoric and historic cultural sites which can be considered as eligible for nomination to the National Register of Historic Places have been outlined as follows in the National Register's Criteria for Evaluation as established in Title 36 CFR 60.6:

*The quality of significance in American ... archaeology ... and culture is present in ... sites ... that possess integrity of location, design, setting, materials, workmanship, feeling, and association and:*

- a. That are associated with events that have made a significant contribution to the broad patterns of our history; or*
- b. that are associated with the lives of persons significant in our past; or*
- c. that embody the distinctive characteristics of a type, period, or method of construction ... ; or*
- d. that have yielded, or may be likely to yield, information important in prehistory or history.*

In addition to satisfying one or more of these general conditions, a significant cultural resource site in Utah will generally be considered as being eligible for inclusion in the National Register if it should advance our current state of knowledge relating to chronology, cultural relationships, origins, and cultural life ways of prehistoric or historic groups in the area.

In a final review of any site's cultural significance, the site must possess integrity and at least one of the above criteria to be considered eligible for nomination to the National Record of Historic Places.

### **Results of the Inventory**

No prehistoric or historic cultural resource activity loci were observed and recorded during the archaeological evaluations.

No paleontological loci were observed or recorded during the evaluation.

No isolated artifacts were observed within the development area.

## CONCLUSION AND RECOMMENDATIONS

No cultural or paleontological resources were observed within the various development areas during the archaeological survey.

AERC recommends that a cultural resource clearance be granted to Coastal Energy Corporation/Utah Fuel Company for the development of these three drillholes (95-21-1, 95-28-1, and 95-33-1) and **Seismic Lines A, B, and C** upon adherence to the following stipulations:

1. all vehicle traffic, personnel movement, and construction should be confined to the flagged development areas as examined, and to existing roads;
2. all personnel should refrain from collecting artifacts or from disturbing any cultural resources in the area; and
3. the principal authority should be consulted should cultural remains from subsurface deposits be exposed during exploratory and developmental work or if the need arises to relocate or otherwise alter the development area.



F. Richard Hauck, Ph.D.  
President and Principal  
Investigator

## REFERENCES

Hauck, F. Richard

1975 "A Summary of Archaeological Reconnaissance Carried out during the 1975 Field Season in the Scofield, Utah Locality for Sanders Associates, Inc." Archeological-Environmental Research Corporation, Salt Lake City.

1979 Cultural Resource Evaluation in Central Utah -- 1977. Cultural Resource Series, No. 3, Bureau of Land Management, Salt Lake City.

1991a "Cultural Resource Evaluation of Three Proposed Coal Exploratory Well Locations and Associated Access Routes in the Winter Quarters Canyon and Granger Ridge Locality of Carbon County, Utah." Report prepared for Utah Fuel Company (UFC-91-1), Archeological-Environmental Research Corporation, Bountiful.

1991b "Archaeological Evaluations in the Winter Quarters Locality of Carbon, Emery, & Sanpete Counties, Utah." AERC Paper No. 49, Archeological-Environmental Research Corporation, Bountiful.

1991c "Archaeological Evaluations on the Northern Colorado Plateau Cultural Area." AERC Paper No. 45, Archeological-Environmental Research Corporation, Bountiful.

Hauck, F. Richard and Dennis G. Weder

1980 "Archaeological Surface Evaluations in the Skyline Project in Carbon and Emery Counties, Utah." AERC Paper No. 23, Archeological-Environmental Research Corporation, Bountiful.

Hintze, Lehi F.

1973 "Geologic History of Utah." Brigham Young University Geology Studies, Vol. 20, Pt. 3, Provo.

Jennings, Jesse D.

1978 Prehistory of Utah and The Eastern Great Basin." University of Utah Anthropological Papers Number 98. University of Utah Press, Salt Lake City.

1989 Prehistory of North America. Third Edition, Mayfield Publishing Company, Mountain View, California.

Stokes, W.L.

1977 Physiographic Subdivisions of Utah. Map 43,  
Utah Geological and Mineral Survey, Salt Lake City.

1986 "Geology of Utah." Occasional Paper Number 6 of the Utah  
Museum of Natural History, University of Utah, Salt Lake  
City.

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855 P02 JUL 10 '95 12:31

**SECTION EIGHT  
NOTICES**

Any notice provided for or concerning this Agreement shall be in writing and shall be deemed sufficiently given when sent by certified or registered mail if sent to the respective address of each party as set forth at the beginning of this Agreement.

**SECTION NINE  
ASSIGNMENT OF RIGHTS**

The rights of Licensee under this Agreement are personal to it and may not be assigned or transferred to any other person, firm, corporation, or other entity without the prior, express, and written consent of Licensor.

WITNESS the following signatures as of the day and year first above written.

WITNESS:

LICENSOR:

L. Craig Hutto 6/15/95

Bury Allred

ATTEST:

LICENSEE:

COASTAL STATES ENERGY COMPANY

BY: William S. Hedgcock Jr.  
ITS: Assistant Secretary

BY: John E. Van Zonen  
ITS: President

copy 2



# ARCHEOLOGICAL - ENVIRONMENTAL RESEARCH CORPORATION

P. O. Box 853 Bountiful, Utah 84011-0853  
Tel: (801) 292-7061, 292-9668

July 17, 1995

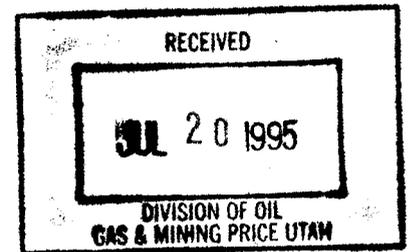
*Subject:* **Addendum to CULTURAL RESOURCE EVALUATION OF  
PROPOSED DRILLHOLES AND SEISMIC LINE CORRIDORS  
IN THE UPPER HUNTINGTON CANYON AND  
WINTERQUARTERS RIDGE LOCALITIES OF SANPETE  
AND CARBON COUNTIES, UTAH**

*Project:* Coastal Energy Corporation/ Utah Fuel Company Development

*Project No.:* CSEC-95-3

*Permit No.:* Forest Service Special Use Permit

*State Project No.:* UT-95-AF-252pf



*To:* Mr. Wendell A. Koontz, **Utah Fuel Company**, P.O. Box 719, Helper, Utah  
84526-0719

Mr. Steve Demczak, College of Eastern Utah, **Utah Division of Oil, Gas, &  
Mining**, 451 East 400 North, P.O. Box 169, Price, Utah 84501

Mr. Stan McDonald, **Manti-LaSal National Forest**, 599 West Price River Drive,  
Price, Utah 84501

*Info:* **Antiquities Section**, Division of State History, 300 Rio Grande, Salt Lake City,  
Utah 84101

ADDENDUM TO: CSEC-95-1 (CSEC-95-3)

On July 12, 1995, AERC archaeologists Glade Hadden and F. Richard Hauck returned to the 95-21-1 drillhole location in the Little Swens Canyon locality of Sanpete County to conduct an evaluation of the new location for this drillhole site (see attached map). This drill site is situated on private land immediately west and adjacent to the National Forest boundary.

In order to ascertain the potential for adverse effect the new drillhole location may pose for any cultural resource in the disturbance zone, the archaeologists intensively evaluated a 35 meter radius from the well center location. The drillhole location is situated adjacent to an existing road which will provide access for the rig; hence, an access route for the location was not examined.

The archaeologists determined that the new location for drillhole 95-21-1 will have no adverse effect on any cultural resources; no historic or prehistoric artifacts or features were observed in the development zone. No known cultural sites including National Register eligible loci are situated in the development zone. The closest known potential site to this development area is an historic sawmill location shown on the 1891 General Land Office plat. This potential site is situated on private land in the basin at the head of Little Swens Canyon ca. 400 meters to the southwest of the new drillhole position (see Janette S. Kaiser's [Manti-La Sal Forest Supervisor's Office] letter to Max Evans [Division of State History] dated July 10, 1995). This potential cultural site is not endangered by the proposed drilling operation; it is situated on privately owned lands outside the traffic zone and potential impact area. Accordingly, the archaeologists did not conduct a search for the location of the old sawmill.

AERC recommends that the new location for drillhole 95-21-1 be granted a cultural resource clearance. All recommendations defined within the original report (CSEC-95-1 -- dated July 7, 1995) are pertinent to the new location.

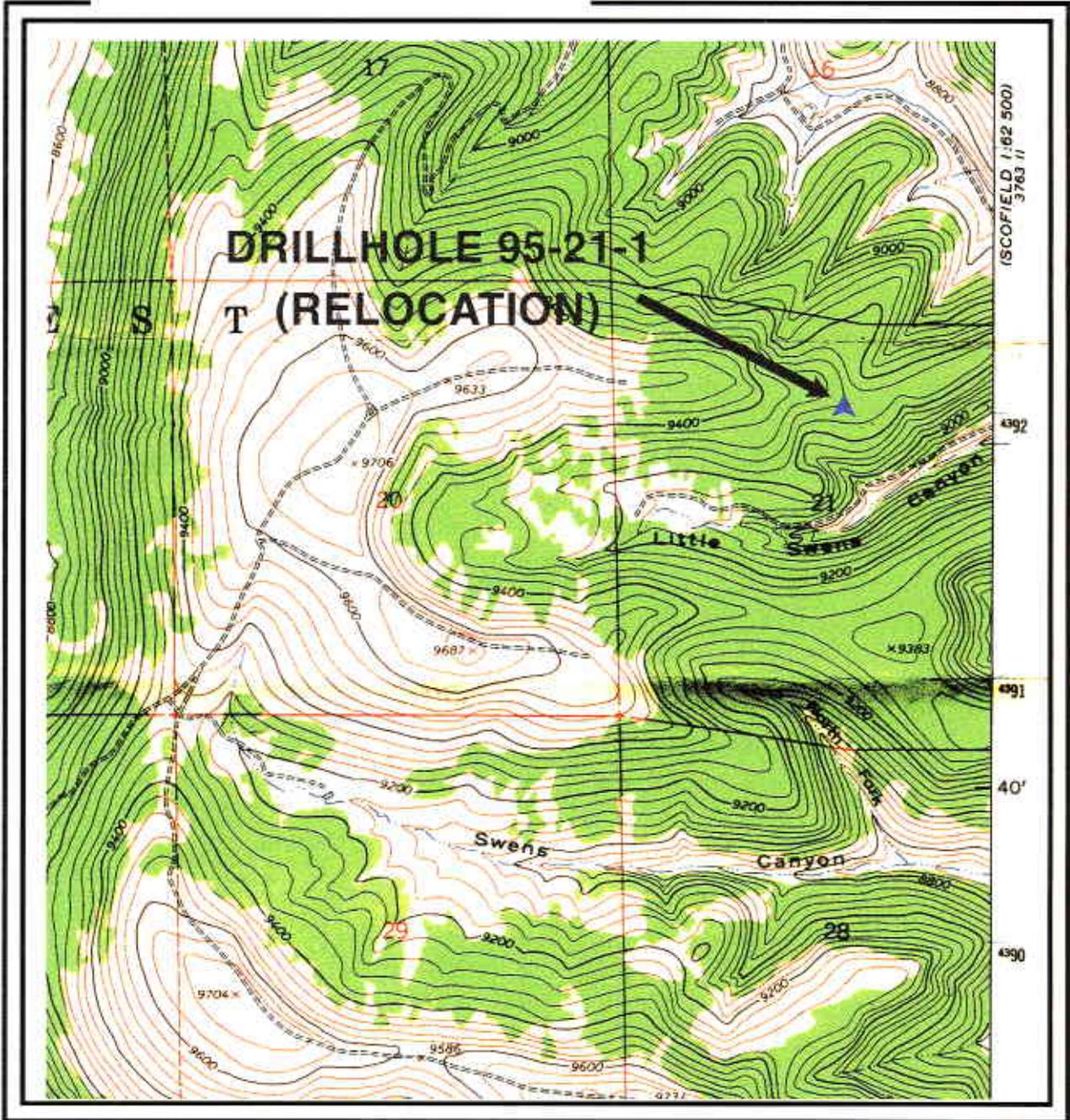
A handwritten signature in black ink, appearing to read "F. Richard Hauck". The signature is written in a cursive style with a large initial "F" and "H".

F. Richard Hauck, Ph.D.  
Principal Investigator

**MAP 6: CULTURAL RESOURCE SURVEY  
OF PROPOSED DRILLHOLE  
RELOCATION 95-21-1 IN THE  
LITTLE SWENS CANYON  
LOCALITY OF SANPETE COUNTY, UTAH**



**PROJECT:** CSEC - 95 - 3  
**SCALE:** 1:24,000  
**QUAD:** Fairview Lakes, Utah  
**DATE:** July 17, 1995



**T. 13 South**  
**R. 6 East**  
**Meridian: Salt Lake B. & M.**

**LEGEND:**

**Drillhole Location**



U.S.D.A. - FOREST SERVICE

ROAD USE PERMIT  
(Ref: F.S.M. 7731.16)

Authority: Acts of 4/24/50, 10/13/64, 8/17/74, 9/9/66  
10/22/76, 12/02/80 (16 U.S.C. 504a, 571c, 580c-580l, 581,  
581l, and 532-538, and 1608, and 3210) and (P.L. 88-657,  
P.L. 89-564, P.L. 93-378 and P.L. 94-588, P.L. 96-487);  
Federal Aid Highway Act of 1968 (P.L. 90-495); Surface  
Transportation Assistance Act of 1978 and 1982 (23 U.S.C.  
101a, 201-205) (P.L. 95-599, P.L. 97-424)

ATTN: Vernal Mortensen  
801-596-7111 BusinessCoastal States Energy Co.  
175 East 400 South, Suite 800  
S.L.C., Utah 84111

May 15, 1995

(Name)

(Address &amp; Zip Code)

(hereafter called the permittee) is hereby granted use of the following road(s) or road segments:

The Granger Ridge Road FDR (Forest Development Road) #50221 from State Route 264 northly to private lands in T. 12 S., R. 6 E., Section 34 for a distance of 7.30 miles.

on the Manti - La Sal National Forest, subject to the provisions of this permit including clauses 1 through 17, on page(s) 1 through 3 for the purpose of road maintenance, transporting personnel, equipment, supplies and materials for coal exploration activities on private or U.S. Government Lands.

The exercise of any of the privileges granted in this permit constitutes acceptance of all the conditions of the permit.

1. **USE PLANS.** Prior to June 15 each year this permit is in effect, permittee shall notify the Price District Ranger in writing of the approximate time when such use will commence, the anticipated duration of such use, the names and addresses of permittee's contractors or agents who will use the road on behalf of permittee, the estimated extent of use, and such other information relative to permittee's anticipated use as the Forest Service may from time to time reasonably request. If and when during the year there is any significant change with respect to the information so supplied by permittee, the permittee will notify the Price District Ranger promptly in writing of such change. Plans and changes will be approved by the Manti-La Sal Forest Supervisor before use may commence.

2. **COMPLIANCE WITH LAWS AND REGULATIONS.** The Permittee, in exercising the privileges granted by this permit, shall comply with the regulations of the Department of Agriculture and all Federal, State, county and municipal laws, ordinances or regulations which are applicable to the area or operations covered by this permit.

3. **USE NONEXCLUSIVE.** The privileges granted in this permit to use this road are not exclusive. The Forest Service may use this road and authorize others to use it at any and all times. The permittee shall use said road in such manner as will not unreasonably or unnecessarily interfere with the use thereof by other authorized persons, including Forest Service.

4. **RULES GOVERNING USE.** The permittee, its agents, employees, contractors or employees of contractors, shall comply with all reasonable rules prescribed by the Forest Service for control and safety in the use of this road and to avoid undue damage to the road. Such rules will include:

- (1) Upon reasonable notice, closing the road or restricting its use when, due to weather conditions or the making of alterations or repairs, unrestricted use would in Forest Service judgement, cause excessive damage, or create hazardous conditions;
- (2) Upon reasonable notice, closing the road during periods when, in Forest Service judgement, there is extraordinary fire danger;
- (3) Traffic controls, which in Forest Service judgement, are required for safe and effective use of the road by authorized users thereof;
- (4) Prohibition upon the loading of logs on trucks while such trucks are standing on the roadway surface, except to recover lost logs; and
- (5) Prohibition on the operation on this road of any vehicles or equipment having cleats or other tracks which will injure the surface thereof;
- (6) Prohibition on the operation of hauling vehicles of a width in excess of 96-inches and a gross weight of vehicles and load in excess of 80,000 #.
- (7) Regulation of the number of vehicles so as to prevent undue congestion of this road.
- (8) The Permittee shall not use an "active ingredient" as defined in Section 2 of the Federal Insecticide, Fungicide, and Rodenticide Act, as amended (86 Stat. 973), in violation of said act on the Land described in this permit.

(9) Other - Materials hauling or heavy equipment may not be moved on Forest Development Roads on the following dates:

July 22-24, 1995  
September 1-3, 1995  
October 4-8, 1995  
October 20-23, 1995

Use after October 1, 1995 and prior to June 1, 1996 shall occur only when the subgrade is in dry or frozen and with a letter of extension..

5. **INSURANCE.** Permittee or his contractors and assigns shall be required to carry public liability and property damage insurance for the operation of vehicles in the amounts established by applicable state laws, cooperative agreements, or easements issued on the subject road or roads. In any event, the permittee must carry liability insurance and property damage insurance of not less than \$100,000 for injury or death to one person, \$300,000 for injury or death to two or more persons, and \$100,000 for damage to property. The permittee itself shall be responsible for furnishing to the Manti-La Sal Forest Supervisor proof of satisfactory insurance when said insurance is to be furnished by other than the permittee. Proof of satisfactory insurance may be required by the Price District Ranger prior to hauling over the road(s) and will be for the duration of the permit and such insurance policy shall bear an endorsement requiring the issuing company to give 10 days prior written notice to the Manti-La Sal National Forest Supervisor, of cancellation or material change.

6. **MAINTENANCE.** The permittee shall bear the expense of maintenance proportionate to his use. This expense will be borne by

Recurring maintenance of FDR 50221 of 7.30 miles.

When deposit or payments are required in lieu of performance of maintenance the rate will be N/A which is agreed to be the cost of such works; the deposits or payments to be made at such times and in such amounts as requested by the Price District Ranger Provided, however, that the rate shall be revised upward or downward on June 15 of each every third year hereafter, based on estimated costs and uses anticipated; Provided further, that payment shall not relieve the permittee from liability for repair of damages due to carelessness or negligence on its part or on the part of its contracts or agents.

Maintenance shall be performed in accordance with Forest Service specifications or requirements for maintenance as hereinafter listed, or as may be mutually agreed upon from time to time and shall consist of (1) current maintenance as necessary to preserve, repair, and protect the roadbed, surface and all structures and appurtenances, and (2) re-surfacing equivalent in extent to the wear and loss of surfacing caused by operations authorized by this permit.

6a. **MAINTENANCE AND RE-SURFACING REQUIREMENTS AND SPECIFICATIONS.**

Recurring Maintenance:

FDR 50221

$\$0.018/\text{MI}/\text{ESU} \times 317 \text{ ESU} \times 7.30 \text{ MI} = \$ 41.65$

Deferred Maintenance:

FDR 50221

$\$0.069/\text{MI}/\text{ESU} \times 317 \text{ MBF} \times 7.30 \text{ MI} = \$ 159.67$

TOTAL PAYMENT REQUIRED      \$201.32

7. **PERFORMANCE BOND.** In the event the permittee is to perform his proportionate share of road maintenance, road re-surfacing, or betterment, as determined and within time periods established by the Forest Supervisor, the Forest Service may require as a further guarantee of the faithful performance of such work that the permittee furnish and maintain a surety bond satisfactory to the Forest Service in the sum of Thirteen-thousand and two hundred dollars (\$13,200), or in lieu of a surety bond, deposit into a Federal depository, as directed by the Forest Service, and maintain therein cash in the sum of Thirteen-thousand and two hundred dollars (\$13,200), or negotiable securities of the United States having market value at time of deposit of not less than Thirteen-thousand and two hundred dollars (\$13,200). As soon as security for the performance of road maintenance (and betterment) requirements or the settlement of claims incident thereto is completed, un-encumbered cash guarantees or negotiable securities deposited in lieu of surety bond will be returned to the permittee.

8. **FIRE PREVENTION AND SUPPRESSION.** The permittee shall take all reasonable precautions to prevent and suppress Forest fires. No material shall be disposed of by burning in open fires during the closed season established by law or regulation without a permit from the Forest Service.

9. **DAMAGES.** The permittee shall exercise diligence in protecting from damage the land and property of the United States covered by and used in connection with this permit, and promptly upon demand shall pay the United States for any damage resulting from negligence, or from violation of the terms of this permit or of any law or regulation applicable to the National Forests, by the permittee, or by his agents, contractors, or employees of the permittee acting within the scope of their agency, contract, or employment.

10. **OFFICIALS NOT TO BENEFIT.** No Member of or Delegate to Congress or Resident Commissioner shall be admitted to any share or part of this agreement or to any benefit that may arise here-from unless it is made with a corporation for its general benefit.

11. **OUTSTANDING RIGHTS.** This permit is subject to all outstanding rights.

12. **SUSPENSION.** Upon the failure of the permittee, its agents, employees or contractors to comply with any of the requirements of this permit, the officer issuing the permit may suspend operations in pursuance of this permit.

13. **TERMINATION.** This permit shall terminate on October 1, 1995 unless extended in writing by the Forest Service. It may be terminated upon breach of any conditions herein.

14. In the event of any conflict between any of the preceding printed clauses or any provision thereof and any of the following clauses or any provisions thereof, the following clauses will control.

15. **SAFETY.**

Unless otherwise agreed in writing, when Permittee's Operations are in progress adjacent to or on Forest Service controlled roads and trails open to public travel, Permittee shall provide the use with adequate warning of hazardous or potentially hazardous conditions associated with Permittee's Operation. A specific traffic control plan for each individual project shall be agreed to by Permittee and Forest Service prior to commencing operations. Devices shall be appropriate to current conditions and shall be covered or removed when not needed. Except as otherwise agreed, flagger and devices shall be as specified in the "Manual on Uniform Traffic Control Devices for Streets and Highways" (MUTCD), and in specifications attached hereto.

16. **WORK REQUIRE TO ACCOMMODATE PERMITTED USE.** In accordance with this use, the permittee shall perform the work described below and in accordance with plans and specifications hereto:

None

17. Drivers of all vehicles hauling shall have a copy of page 1 of this agreement in their possession. This agreement will be presented, on request, to any Forest Officer.

This permit is accepted subject to all of its terms and conditions.

ACCEPTED	Permittee (Name & Signature) <i>Wendell L. Hunt</i>	Date <i>7-24-95</i>
APPROVED	ISSUING OFFICER (Name & Signature) <i>ARCON L. HOWE</i> <i>ARCON L. HOWE</i> T.V.G. Forest Supervisor	Date <i>7/24/95</i>

UNITED STATES DEPARTMENT OF AGRICULTURE  
FOREST SERVICE

PROSPECTING PERMIT  
(Geophysics, Oil and Gas, Geothermal, Acquired Minerals)  
(Act of June 4, 1987) (Ref: FSM 2821)

FILE REFERENCE/SERIAL NO.
NAME OF PERMITTEE
DATE OF APPLICATION

Permission is hereby granted to Coastal States Energy (Skyline Mine)  
of Helper, Utah

to use the following-described lands: (Line A) T6E R13S Secs 4,9,10 & (Line B) Secs 1,2  
(Describe the lands to be occupied with referenc  
and (Line C) T6E R12S Secs 25,26 \*\*\* Please See Attached Map \*\*\*  
to a Government survey, State-grant road, stream, or well-known landmark)

for the purpose of conducting geophysical surveys, necessary for determining whether there are mineral deposits of such quantity and value as would warrant application to the Bureau of Land Management, Department of the Interior, for:

- a. A prospecting permit granting a preference right to lease, or
- b. A lease authorizing exploration and development of mineral or energy resources and the erection of such temporary structures and/or facilities as are requisite thereto.

This permit is granted subject to all valid claims to the described lands, and to the following conditions:

- 1a. The permittee shall pay in advance to the Forest Service, U.S. Department of Agriculture, an annual rental in the sum of \$XXXXXXXXXXXXXXXXXXXXXXX
- 1b. The permittee shall pay to the Forest Service, U.S. Department of Agriculture, the sum of \$ 800 for 3-1/3 miles Seismic Line @ \$200/mi

\*Strike out 1a or 1b, whichever is inapplicable.

2. The permittee, in exercising the privileges granted by this permit, shall comply with the regulations of the Department of Agriculture and all Federal, State, county, and municipal laws, ordinances, or regulations which are applicable to the area or operations covered by this permit, including, but not limited to, those pertaining to fire, sanitation, fish, and game.

3. This permit is accepted subject to the conditions set forth herein, and to conditions 1 to 17 attached hereto and made a part of this permit.

PERMITTEE	NAME OF PERMITTEE <u>WENDELL A. KOONTZ</u>	SIGNATURE OF AUTHORIZED OFFICER <u>Wendell A. Koontz</u>	DATE <u>7-24-95</u>
		TITLE <u>Min. Geologist</u>	
ISSUING OFFICER	NAME AND SIGNATURE <u>Chas. J. Johnson</u>	TITLE <u>DFR</u>	DATE <u>7/24/95</u>

4. This permit does not grant any exclusive right to the use of the described lands for prospecting, or other purposes; the area herein described shall be subject at all times to any other lawful uses by the United States, its lessees, permittees, licensees, and assigns.
5. This permit does not grant any rights of any kind in minerals; nor does it grant an preference right of any nature whatsoever in the issuance of a permit or lease for exploration, removal, or development of the mineral resources in the described land
6. The permittee shall take all reasonable precaution to prevent and suppress forest fires. Particularly in connection with operations under this permit, fire preventi and fire-fighting equipment as required by the Forest Supervisor shall be provided, and the burning or other disposal of brush and other flammable debris shall be done the permittee in accordance with written stipulations to be issued by the Forest Supervisor.
7. No national forest timber may be cut or destroyed without first obtaining a permit from the forest officer in charge.
8. The permittee will exercise diligence in protecting from damage the land and proper of the United States covered by and used in connection with this permit and will pa the United States for any damage resulting from the violation of the terms of this permit or any law or regulation applicable to the national forests by the permittee his agents, or employees, or through negligence of the permittee, his agents, or employees, when acting within the scope of their employment.
9. The permittee shall safeguard with fences, barriers, fills, covers or other effecti devices, any shafts, pits, tunnels, cuts, and other excavations which otherwise wou unduly imperil the lives, safety, or property of other persons.
10. Upon abandonment, termination, or revocation of this permit, the permittee shall remove all structures and facilities which have been placed on the premises by him, and shall restore the site, unless otherwise agreed upon in writing or in this perm
11. This permit may be revoked by the Forest Supervisor upon determination that permittee's operations have violated any of the terms and conditions set forth in t permit.
12. The permittee shall fully repair all damage, other than ordinary wear and tear, to roads and trails in the national forests caused by the permittee in the exercise of the privilege granted by this permit.
13. In case of change of address, permittee shall immediately notify the Forest Supervisor.
14. No Member of or Delegate to Congress or Resident Commissioner shall be admitted to share or part of this permit or to any benefit that may arise therefrom, but this provision shall not be construed to extend to this permit if made with a corporatio for its general benefit.
15. The conditions of this permit are completely set forth herein and none of its terms can be varied or modified except in writing by the forest officer issuing the permi his successor, or superior, and in accordance with applicable law and the regulatio of the Secretary of Agriculture.

16. WENDELL A. KOONTZ MINE GEOLOGIST  
 (Name) (Title)

P.O. Box 719 HELPER UT 801-636-2668  
 (Address) (Business Phone)

84526 801-489-8059  
 (ZIP) (Home Phone)

is designated as the authorized field representative of the permittee to be in char and responsible for operations under the permit and for compliance with the terms a conditions thereof.

17. Reclamation bond of \$600 for disturbed areas to be refilled, raked and seeded during 1995 field season. J.F. 24/7/95  
 CJK

## DECISION MEMO

### Skyline Mine's 1995 Seismic Survey

#### Near Winter Quarters Ridge

Manti-La Sal National Forest  
Ferron-Price Ranger District  
Emery County, Utah

I have decided to approve Skyline Mine's proposal to conduct a 3 line seismic survey for coal exploration on lands within the Ferron-Price Ranger District of the Manti-La Sal National Forest in Emery County, Utah.

Skyline proposes to conduct this survey during the 1995 field season. The survey would total approximately 17,600 feet (3 and 1/3 miles) on National Forest lands. This exploration would be off of their current leaseholding. The proposed survey lines are shown on the attached map. The lines would be surveyed on the ground and marked with stakes and flagging which would be removed upon completion of the survey. All vehicular traffic would be limited to existing roads. The line requiring the drill and shoot method will be accessed from the adjacent Allred property, and the light auger is to be towed in by horse, across Forest Service lands. The 5 feet deep, shot holes would be loaded with half-pound explosive charges then backfilled with the cuttings. After detonation, a small shallow depression would usually occur over the holes. The depression is to be filled and raked out and seeded with an approved mix. The application and operating plan contained in the case file fully explain the proposal and are available for review.

Through project scoping, the Forest Service has determined that there are no new unmitigated issues for the project (see Scoping Document in the case file). This type of geophysical survey is a routine practice on the Wasatch Plateau. Many holes have been drilled on the Price Ranger District in the past with little or no resource damage, and the sites have been successfully rehabilitated. The proposed action would then fall within Section 31.2 Category 8 (a, b) Short-term mineral, energy or geophysical and no extraordinary circumstances exist that might cause the action to have significant effects; therefore, the action is categorically excluded from documentation in an environmental impact statement or an environmental assessment (FSH 1909.15 Section 26). Through separate Biological Evaluations, the Forest Service has determined that there would be no adverse impacts to Threatened, Endangered, or Sensitive floral or faunal species.

Questar Pipeline Company responded to our public scoping and expressed concern over the proximity of seismic lines to their pipeline. They requested that any seismic work in the vicinity would be closely coordinated between Skyline mine and Questar. I received confirmation from Questar on July 18, that the appropriate contacts had been made.

The proposal is consistent with management direction including the standards and guidelines of the Manti-La Sal National Forest Land and Resource Management Plan. The management prescriptions for the project area emphasizes Wood Fiber Production and Harvest (TBR) and Production of Forage (RNG). Mineral activities are allowed with mitigation: to assure continued livestock access and use and where those authorized to conduct developments will be required to replace losses through appropriate mitigations, where a site-specific development adversely affects long-term production or management.

There are no known prime or unique farmlands, wetlands, timber lands, rangelands, or alluvial valley floors within the project area. There will be no impacts to floodplains or cultural resources (see Cultural Resources Report in the case file).

This decision is not subject to appeal under 36 CFR 215. This decision is subject to administrative review in accordance with 36 CFR 251, as is the case of decisions regarding written instruments authorizing occupancy and use of National Forest System lands. Any appeal of this decision must include the information required by 36 CFR 251.90 (Content of Notice of Appeal), including the reasons for appeal and must be sent to Janette S. Kaiser, Forest Supervisor, 599 West Price River Drive, Price, Utah 84501 within 45 days of the date of this decision. A copy of the Notice of Appeal must be filed simultaneously with the Ferron-Price District Ranger, at the same address.

This decision may be implemented immediately.

We are willing to meet with you to discuss any concerns or issues related to this decision. Please contact Jeff DeFreest, Ferron-Price District Geologist or me at phone 801-637-2817.

  
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Charles J. Jankiewicz  
Ferron-Price District Ranger

7/24/85  
Date