

**CLASS I CULTURAL RESOURCE INVENTORY  
OF THE PRIVATE FUEL STORAGE FACILITY RAILROAD SPUR  
AND INTERMODAL TRANSFER POINT,  
SKULL VALLEY, TOOELE COUNTY, UTAH**

Cultural Resources Report 5117-01-9809

by

Jason R. Bright and Alan R. Schroedl

Submitted to

Stone and Webster Engineering Corporation  
7677 E. Berry Ave.  
Englewood, Colorado 80111-2137

Project U 98 PD 0213bi

Submitted by

P-III Associates, Inc.  
2759 South 300 West  
Salt Lake City, Utah 84115-2932

May, 1998

***P-III ASSOCIATES, INC.***



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## **Introduction**

At the request of Stone and Webster Engineering Corporation (SWEC), P-III Associates undertook a Class I cultural resource inventory in Skull Valley, Utah, in anticipation of the development of the Private Fuel Storage Facility (PFSF) project, which plans to store spent nuclear fuel in dry storage casks on the Goshute Indian Reservation in Skull Valley, Utah.

P-III Associates conducted a Class I inventory for two study areas (Figures 1-3). The first is the intermodal transfer point, which includes an area 600 feet wide and 330 feet long, located 1.8 miles west of Timpie Junction on the southern side of the Union Pacific Railroad in Skull Valley, Utah. P-III Associates evaluated a one-quarter-mile radius around the intermodal transfer point.

The second area is the Low transport corridor, which represents a proposed railroad spur beginning at Low Junction, Tooele County, Utah, proceeding southeast and around the northern tip of the Cedar Mountains, and then turning south along the western edge of Skull Valley and finally east into the Goshute Indian Reservation. The Class I cultural resource inventory focused on a half-mile-wide corridor centered over this proposed railroad spur. A Class I inventory is designed to locate previously inventoried areas and previously recorded sites in the area to help assess the effect of project development on cultural resources. The results of this inventory will be incorporated in an amendment to the license application for the PFSF project, which was submitted to the U.S. Nuclear Regulatory Commission on June 25, 1997.

## **Methods**

A comprehensive file search was performed at the Utah Division of State History, Antiquities Section between April 27 and 30, 1998, by Jason R. Bright. The geographic area searched covered one quarter mile in each direction of the proposed corridor and a one-quarter-mile radius around the intermodal transfer point. Previous inventories in the area were noted and any recorded archeological or historical sites were plotted. The description of the area evaluated is presented in Table 1, along with a summary of results by legal section. In addition, a search of the IMACS computer database was performed to identify any sites recorded within the Townships between T. 1N and T. 5S within R. 9W. The results of the computer search are discussed below.

## **Results**

A number of previous inventories intersect the corridor or the one-quarter-mile buffer zone. Most of them are long, linear surveys conducted for powerlines, pipelines, and other linear features. A few previous inventories were for fire rehabilitation. The locations of the inventory projects in relation to the study areas are plotted on Figures 1-3. Most



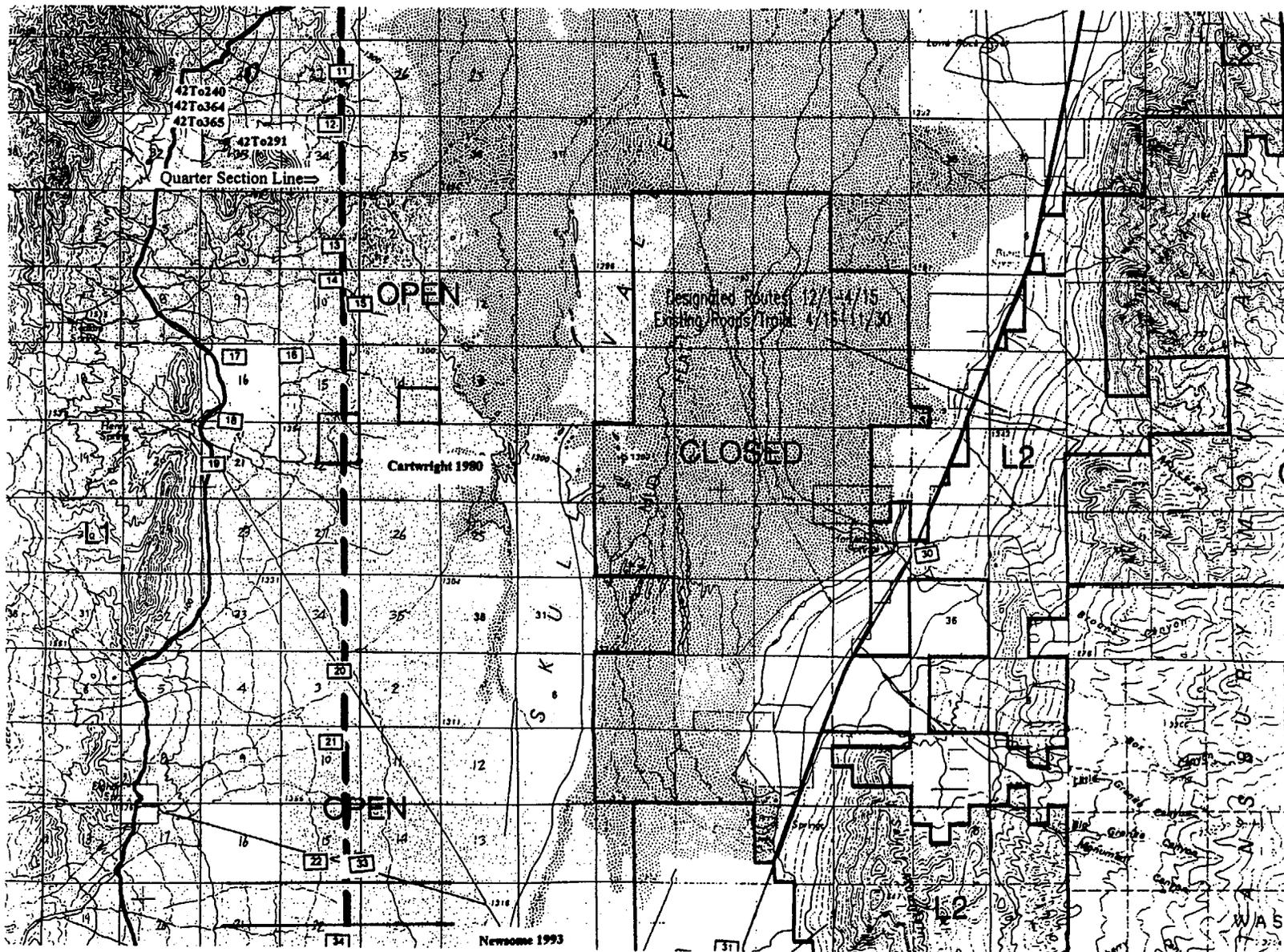


Figure 2. Map showing the central third of the railroad spur corridor, previous cultural resource inventories, and the location of known nearby sites.

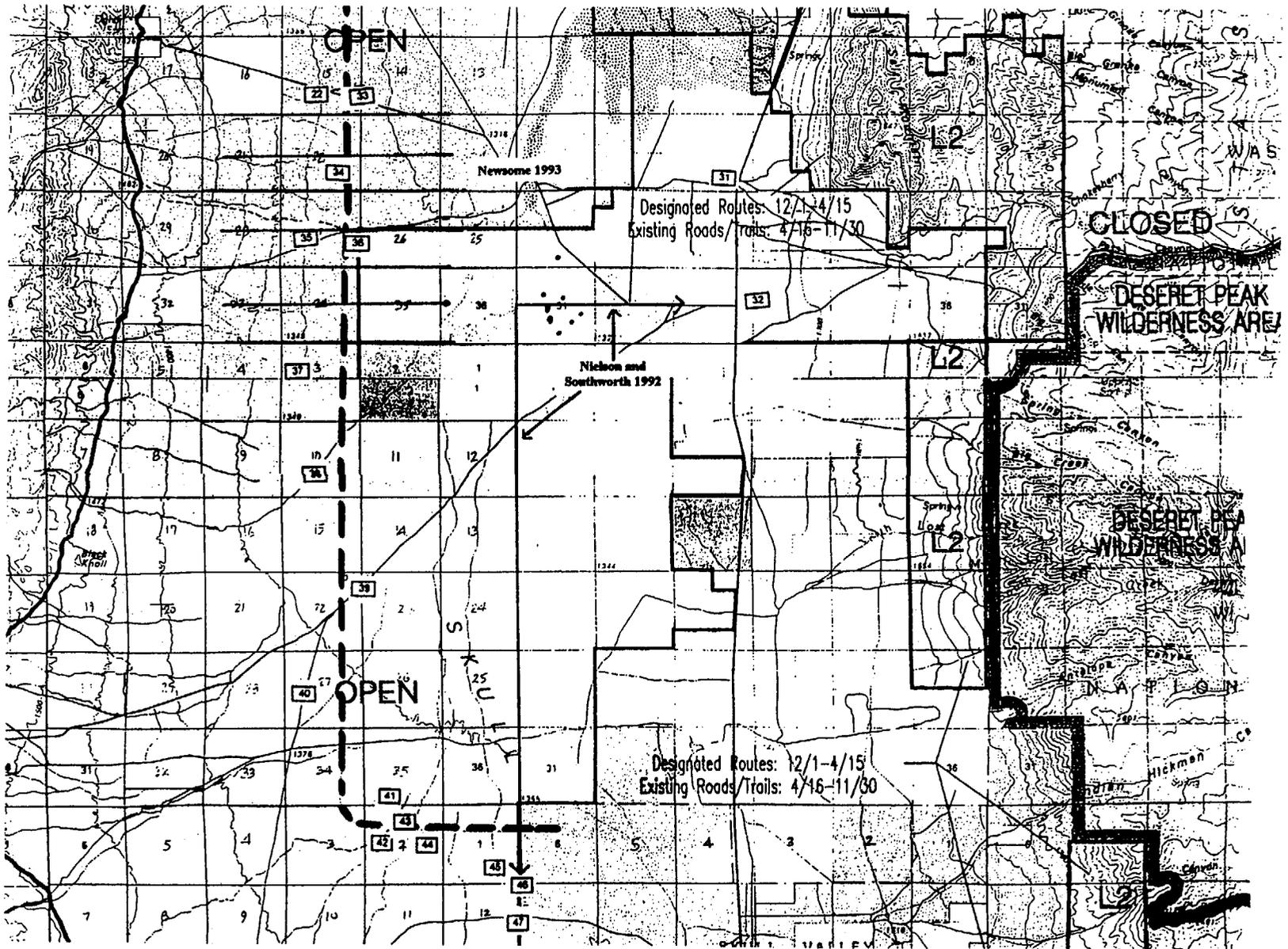


Figure 3. Map showing the southern third of the study area of the railroad spur corridor and previous cultural resource inventories in the area.

Table 1. Class I inventory results.

Township	Range	Section	Portion of Section	Previous Inventories	Number of Sites	Reference
1N	9W	18	Eastern half	Powerline corridor and fiber-optic cable corridor	0	Nielson 1986, 1992a, 1992b; Billat et. al 1986
1N	9W	17	Middle, diagonal	Powerline and pipeline corridors, and fiber-optic cable corridors	0	Nielson 1992a; Senulis 1987; Billat et. al 1986
1N	9W	16	SW quarter	Powerline and pipeline corridors	0	Nielson 1992a; Senulis 1987
1N	9W	21	Northern half	Powerline and pipeline corridors	0	Nielson 1992a; Senulis 1987
1N	9W	21	SE quarter	Pipeline corridor	0	Senulis 1987
1N	9W	22	SW quarter	Powerline and pipeline corridors	0	Nielson 1992a; Senulis 1987
1N	9W	27	Northern half	Powerline and pipeline corridors, and fire rehab	0	Nielson 1992a; Senulis 1987; Melton 1995a
1N	9W	27	SE quarter	Fire rehab	0	Melton 1995a
1N	9W	34	Eastern half	Fire rehab	0	Melton 1995a
1S	9W	3	Eastern half	Fire rehab	0	Melton 1995a
1S	9W	10	Eastern half	Fire rehab	0	Melton 1995b
1S	9W	15	Eastern half	Unsurveyed	0	—
1S	9W	22	Eastern half	Unsurveyed	0	—
1S	9W	27	Eastern half	Unsurveyed	0	—
1S	9W	34	Eastern half	Unsurveyed	0	—
2S	9W	3	Eastern half	Unsurveyed	0	—
2S	9W	10	Eastern half	Unsurveyed	0	—
2S	9W	15	Eastern half	Unknown	0	Cartwright 1980
2S	9W	22	Eastern half	Unknown	0	Cartwright 1980
2S	9W	27	Eastern half	Unsurveyed	0	—
2S	9W	34	Eastern half	Unsurveyed	0	—
3S	9W	3	Eastern half	Unsurveyed	0	—
3S	9W	10	Eastern half	Unsurveyed	0	—
3S	9W	15	Eastern half	Unsurveyed	0	—
3S	9W	22	Eastern half	Seismic line, patterned survey	0	Newsome 1993
3S	9W	27	Eastern half	Seismic line, patterned survey	0	Newsome 1993
3S	9W	34	Eastern half	Seismic line, patterned survey	0	Newsome 1993
4S	9W	3	Eastern half	Unsurveyed	0	—
4S	9W	10	Eastern half	Unsurveyed	0	—
4S	9W	15	Eastern half	Unsurveyed	0	—
4S	9W	22	Eastern half	Unsurveyed	0	—

Table 1. Class I inventory results (continued).

Township	Range	Section	Portion of Section	Previous Inventories	Number of Sites	Reference
4S	9W	27	Eastern half	Unsurveyed	0	—
4S	9W	34	Eastern half	Unsurveyed	0	—
5S	9W	3	NE quarter	Unsurveyed	0	—
5S	9W	2	Northern half	Unsurveyed	0	—
5S	9W	1	Northern half	Powerline corridor	0	Nielson and Southworth 1992
5S	8W	6	Northern half	Powerline corridor	0	Nielson and Southworth 1992
1S	8W	1	SE quarter	Powerline corridor and fiber-optic cable corridor	0	Nielson 1992b; Billat et. al 1986
1S	8W	12	NE quarter	Powerline corridor	0	Nielson 1992a

previous inventories in the area occur near the northern part of the railroad corridor, with a few occurring in the southern portion of the corridor.

Besides two historic trails that intersect the proposed corridor, no other recorded archeological or historical sites were located within the study area. The Hastings Trail, established in 1846 by Langsford W. Hastings (James and Singer 1980:181), runs along the southern edge of Interstate 80 and very likely runs along the northern portion of the proposed corridor, from Low, southeast along I-80 until the corridor turns sharply south in Section 27, T. 1N, R. 9W. The Donner-Reed Trail also crosses the proposed corridor, probably in Section 3, T. 1S, R. 9W. A faint line that is likely the trail is visible on a topographic orthomap (U.S.G.S. 7.5' Series, Delle Quadrangle, Utah, 1973).

The file search found no previously recorded sites in either of the two study areas. However, to assess the archeological and historical potential of the study areas, an IMACS computer database search was conducted. It covered areas in the Cedar Range, its benches, and the flats in Skull Valley. Only 22 sites were found within this larger geographic area (the 14 sites closest to the study area are discussed below). None of these sites occur below 4690 feet above sea level. Most sites occur at or near springs, and the rest occur along drainages. Some sites do occur on the valley floor east of the corridor. The 14 nearby archeological sites were evaluated as 2 groups, 1 in the Cedar Mountains and 1 set on the floor of Skull Valley.

Six sites are included in the Cedar Mountains group. One site, 42To731 (Section 21, T. 1N, R. 9W), may be within one quarter mile of the corridor, but it is located on the northern side of Interstate 80 and is, therefore, unlikely to be impacted by railroad construction regardless of where the final alignment is placed. The site is an open chipped stone scatter with tools and charcoal that is eligible for nomination to the National Register of Historic Places (NRHP).

Other nearby sites in this area include site 42To449 (Section 8, T. 1N, R. 9W), a chipped stone scatter with several tools on the site's surface and probable depth. It is eligible for nomination to the NRHP. Site 42To291 (Section 33, T. 1S, R. 9W) is another NRHP-eligible chipped stone and groundstone scatter with tools. Sites 42To240, 42To364, and 42To365 are stacked rock towers or cairns with associated rubble, probably constructed in the historic period by shepherders. It is difficult to identify their actual location based on the file search, although they are certainly outside of the study corridor. They are all in T. 1S, R. 9W, and the IMACS database indicates they are all in Section 28; however, site maps place the cairns in Sections 28, 29, and 32. This is how they are plotted on Figure 1.

The other cluster of sites (42To502-504 and 42To545-549) occurs on the valley floor (Section 31, T. 3S, R. 8W). All but 42To504 are chipped stone scatters ineligible for nomination to the NRHP. Site 42To504 is eligible for nomination to the NRHP and consists of a large scatter of chipped stone flakes and tools, and features that are likely hearths. These sites are plotted on Figure 3; site numbers have been excluded since they occur as a relatively tight cluster. Site 42To504 is located to the northeast of the center of the section.

## Recommendations

The Class I inventory has identified two trails, the Hastings Trail and the Donner-Reed Trail, that cross the proposed railroad corridor. No sites were located in the intermodal transfer point study area. One site, 42To731, lies within one quarter mile of the proposed railroad spur, but it is unlikely this site will be impacted by construction, as it lies on the northern side of Interstate 80.

While both trails are significant and eligible to the NRHP, it is likely, given the proximity to Interstate 80, that the Hastings Trail has already been severely impacted in the area of the railroad corridor. The Donner-Reed Trail, however, may have been less impacted in the area where it crosses the proposed corridor.

Given our thorough review of the cultural resources in the region and the environmental setting of other known sites in the area, there is only a low probability of encountering archeological or historical sites in the proposed railroad spur corridor or the intermodal transfer point. All sites listed in the IMACS database occur at higher elevations; furthermore, no springs or permanent water sources are indicated on topographic maps in the study areas. Given this low site potential, P-III Associates does not believe that a Class II inventory would be beneficial at this time. We do recommend that once a final corridor is selected and staked, a complete Class III inventory should be completed in all areas that will be subject to ground-disturbing activities.

We consulted Mr. Melvin Brewster, cultural resource representative of the Skull Valley Band of the Goshute Indian Reservation, since Mr. Brewster has extensive knowledge of cultural resources in the region. Mr. Brewster concurs with our

recommendation that a Class II inventory at this stage would not be beneficial given the low cultural resource probability in the study areas. He also supports a 100-percent Class III inventory of any impacted areas, once such areas are identified and staked.

## References Cited

- Billat, L., S. E. Billat, D. E. Newman, M. A. Overstreet, R. K. Talbot, and J. D. Wilde  
1987 *Class III Cultural Resource Inventory Along the U.S. Telecom Fiber Optic Cable Corridor Across Northern Utah, Northern Nevada and Northeastern California*. Report 86-45. Brigham Young University, Office of Public Archaeology, Provo, Utah.
- Cartwright, C.  
1980 Skull Valley Lakeside Class 2. Ms. on file, Utah Division of State History, Antiquities Section, Salt Lake City.
- James, S. R., and D. J. Singer  
1980 *Cultural Resources Existing Data Inventory: Salt Lake District, Utah*. Reports of Investigations 80-17. University of Utah Archeological Center, Salt Lake City.
- Melton, D.  
1995a Summary Report of Cultural Resources Inspection. Ms. on file, Utah Division of State History, Antiquities Section, Salt Lake City.  
1995b Summary Report of Cultural Resources Inspection. Ms. on file, Utah Division of State History, Antiquities Section, Salt Lake City.
- Newsome, D. K.  
1993 *Cultural Resource Inventory of a 3-D Seismic Exploration Line in Skull Valley, Tooele County, Utah*. Cultural Resources Report 5025-01-9310. P-III Associates, Salt Lake City. Submitted to Bureau of Land Management, Pony Express Resource Area, Salt Lake City.
- Nielson, A. S.  
1986 *An Archaeological Inventory of the Lakeside to Delle Substation Powerline Reconstruction*. Research Report U86-6. A. K. Nielson Associates, Orem.  
1992a *A Cultural Resource Inventory of the Proposed Utah Power & Light Horseshoe-Skunk Ridge 46KV Tap Line in Tooele County, Utah*. Research Report U92-25. Nielson Consulting Group, Orem.

Nielson, A. S.

1992b *A Cultural Resource Inventory of the Proposed Utah Power & Light Horseshoe-Skunk Ridge 46 KV Tap Line Alternative Location in Tooele County, Utah.* Research Report U92-37. Nilesen Consulting Group, Orem.

Nielson, A. S., and D. D. Southworth

1992 *A Cultural Resource Inventory of Proposed Alternative Power Line Corridors for Utah Power & Light Company for Dugway Proving Grounds, Tooele County, Utah.* Research Report U92-21. Nielson Consulting Group, Orem.

Senulis, J. A.

1987 *Intensive Cultural Resource Survey and Inventory of the Proposed Brine Pipeline.* SP-UT-107. Senco-Phenix, Salt Lake City.

**RESUMES OF PROJECT PERSONNEL**



- 1997 Archeologist, Utah Division of State History, Salt Lake City, Utah. Duties: see below.
- 1997 Laboratory Manager. Duties: responsible for preparing collections for curation, osteological inventory/analysis of human skeletal remains for projects in the Great Basin and Southwest.
- 1997 Crew Member. Duties: mapping and limited excavation of Juke Box Cave, in the eastern Great Basin.
- 1997 Archeologist, Utah State University, Logan, Utah. Duties: member of research team.
- 1997 Staff Archeologist, P-III Associates, Salt Lake City, Utah. Duties: varied, see below.
- 1997 Staff Archeologist. Duties: designed archeological exhibit, wrote text, obtained artifact replicas, and ordered archival photographs.
- 1997 Staff Archeologist. Duties: participated in several large inventory projects in northeastern Nevada and helped write reports.
- 1997 Ceramic Analyst. Duties: analyzed and wrote-up ceramic collections from 12 sites and conducted a study on the sexual division of labor using the data.
- 1997- Laboratory Director. Duties: supervising artifact processing and tracking, curation preparation, creation and maintenance of all project data base files, checking data, proofreading, and supervising and conducting artifact analyses. Analyzed groundstone artifacts from the N35(1) project, and tracked all project collections.

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### TEACHING EXPERIENCE:

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- 1993-1994 Teaching Assistant, Anthropology Program, Utah State University.
- 1995 Teaching Assistant, Anthropology Program, Utah State University.
- 1995-1996 Teaching Assistant, Anthropology Program, Utah State University.

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### PROFESSIONAL ACTIVITIES:

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- 1995-1996 Editor-in-chief of *Anthromation*, Newsletter of the Department of Anthropology, Utah State University.

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## PAPERS AND PRESENTATIONS:

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- 1994 (with S. R. Simms) X-Ray Differentiation of Ceramic Temper: Inferences About Mobility and Implications for Typology. Paper presented at the Great Basin Anthropological Conference, Elko, Nevada.
- 1995 Political Propaganda in the Classic Maya: The Accession of Bird-Jaguar. Paper presented at the O.C. Tanner Symposium, Logan, Utah.
- 1996 (with W. B. Fawcett) Prehistoric Agriculture at High Altitude on the Colorado Plateau. Paper presented at the 3rd Biennial Conference for Research on the Colorado Plateau, Flagstaff, Arizona.

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## HONORS AND AWARDS:

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- 1992-1993 Anthropology Scholarship, Utah State University
- 1992-1993 National Dean's List
- 1993-1994 National Dean's List
- 1995-1996 Student of the Year/Outstanding Senior in Anthropology, Utah State University
- 1996 National Dean's List
- 1997 National Dean's List

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## PUBLICATIONS:

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- 1993 (with S. R. Simms, S. Jackson, and A. Ugan) *Archaeological Test Excavations in the Great Salt Lake Wetlands*. Utah State University Contributions to Anthropology No. 14. Logan, Utah.
- 1996 (with W. B. Fawcett) *Archaeological Investigations of Site 42GR383, East of Moab, Utah: The 1995 Utah State University Field School*. Utah State University Contributions to Anthropology No. 19. Logan, Utah.
- 1997 (with S. R. Simms, and A. Ugan) Plainware Ceramics and Residential Mobility: A Case Study from the Great Basin. *Journal of Archaeological Science* 24:779-792.
- 1997 (with W. B. Fawcett) *Prehistoric Agriculture at High Altitude on the Colorado Plateau*. Proceedings of the 3rd Biennial Conference for Research on the Colorado Plateau.
- In press (with C. J. Loveland) A Biological Perspective on Prehistoric Human Adaptation in the Great Salt Lake Wetlands. In *Understanding Prehistoric Lifeways in the Great Basin Wetlands: Bioarchaeological Reconstruction and Interpretation*, edited by C. S. Larsen and B. E. Hemphill. University of Utah Press, Salt Lake City.

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## REPORTS AND MANUSCRIPTS:

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- 1998      Class III Cultural Resource Inventory of the Mike Addition, Eureka County, Nevada. Cultural Resources Report 5105-01-9702. Submitted to Newmont Gold Company, Carlin, Nevada. 29 pp. + appendices.

# ALAN R. SCHROEDL

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## EDUCATION:

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B.A., Sociology	1971	Macalester College
B.A., Anthropology	1971	Macalester College
M.A., Anthropology	1976	University of Utah
Ph.D., Anthropology	1976	University of Utah

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## PROFESSIONAL BACKGROUND:

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1971	Staff member, Associated Colleges of the Midwest, San Jose, Costa Rica.
1975-1977	Research Archeologist, Archeological Center, University of Utah, central Utah, southeastern Utah and northeastern Arizona.
1977-1979	Field and Research Archeologist, National Park Service, southeastern Utah and northeastern Arizona.
1977-1978	Visiting Lecturer in Anthropology, University of Saskatchewan.
1978-1979	Assistant Director, Laboratory of Archeology/Cultural Resource Facility, California State University at Fresno.
1978-1980	Assistant Professor of Anthropology, California State University at Fresno.
1980-1982	Adjunct Professor of Anthropology, California State University at Fresno.
1980-present	President and Principal Investigator, P-III Associates, Inc.

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## PRINCIPAL INVESTIGATOR (MAJOR PROJECTS):

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1977	Gowen Site Excavations, central Saskatchewan. Excavation of Early Plains Archaic bison processing site.
1977	1977 Glen Canyon Project, northeastern Arizona and southeastern Utah. Inventory, testing, and excavation of Anasazi and Archaic sites.

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- 1978-1979 1978 Glen Canyon Project, northeastern Arizona and southeastern Utah. Inventory, testing, and excavation.
- 1980-1981 MAPCO Rocky Mountain Pipeline Cultural Resource Program, Wyoming, Utah, Colorado, New Mexico, Arizona, and Texas. Overviews, inventory, testing, excavation, and monitoring.
- 1981-1982 Dinkey Creek Testing Program, central California. Inventory and testing of 12 Archaic and Late Prehistoric sites.
- 1981-1984 ETSI Pipeline Project Cultural Resource Program, Wyoming, South Dakota, Colorado, Kansas, Oklahoma, Arkansas, and Texas. Overviews, inventory, testing, and excavation.
- 1983 Rock Springs Excavations, southwestern Wyoming. Excavation of an Archaic campsite.
- 1983-1984 Tar Sands Inventory and Predictive Modelling Project, central and southeastern Utah. Class II inventory of 17,000 acres and predictive modeling.
- 1983-1984 Frontier Pipeline Data Recovery Program, southwestern Wyoming. Excavation of six Archaic and Late Prehistoric sites.
- 1984 Dirty Devil Inventory, central Utah. Inventory.
- 1984 Clear Creek Canyon Feasibility Study, central Utah. Feasibility evaluation of a Fremont museum and interpretive center.
- 1984-1985 Hodzana River Inventory, central Alaska. Inventory and testing.
- 1984-1985 Turquoise Trail Inventory and Ethnohistory Project, northeastern Arizona. Inventory and ethnohistoric investigations.
- 1984-1985 Riverton Rock Art Study, east-central Wyoming. Extensive documentation and interpretation of complex rock art panels.
- 1984-1985 Mesa Verde Cadastral Survey, Mesa Verde National Park, southwestern Colorado. Cadastral inventory of 900 archeological sites.
- 1984-1988 Highway Inventories, northern Utah. Inventory, limited testing, Native American consultation, and archival research on numerous projects.
- 1984-1994 Canyonlands Archeological Project, southeastern Utah. Six seasons of inventory, research design development, analyses of existing collections, and testing of prehistoric sites.
- 1985-1986 Predictive Modelling of Fremont Sites for the Central Utah Project, central Utah. Predictive modelling of site locations and field verification of model.

- 1985-1987 Hard Rocks Testing, Data Recovery, and Ethnohistory Program, northeastern Arizona. Testing of Anasazi and Navajo sites, data recovery at two Anasazi sites and one Navajo site, oral interviewing, and ethnohistoric research.
- 1985-1989 N-16 Data Recovery and Ethnohistory Project, northeastern Arizona. Excavation of 16 Anasazi sites, mapping and testing of six Navajo sites, and ethnographic research among local Navajos.
- 1986-1987 Big Mountain Inventory and Ethnohistory Project, northeastern Arizona. Inventory and ethnographic research among the Hopi and Navajo.
- 1986-1987 Little Boulder Basin Inventory and Testing Project, northern Nevada. Inventory and testing of lithic scatter sites.
- 1987 Post Office Inventories, northern Utah. Inventorying and recording historic buildings, HABS/HAER documentation, and archival research.
- 1987 Burr Trail Testing Project, south-central Utah. Testing at 11 Archaic, Fremont, and Numic sites.
- 1987-1988 Wilson Farmstead Archeology and History Project, northern Utah. Documentation of an early Mormon farmstead and archival research.
- 1987-1988 Highway 67 Data Recovery Project, north-central Arizona. Data recovery at six high-altitude Archaic and Late Prehistoric sites on the North Rim of Grand Canyon.
- 1987-1988 Central Utah Project Monitoring, central Utah. Monitoring 50 backhoe trenches for evidence of Fremont, Archaic, and Paleoindian materials.
- 1987-1988 Carorra's Camp Data Recovery Project, northern Nevada. Excavation of one Late Prehistoric and one Numic site.
- 1987-1988 5300 South Data Recovery Project, northern Utah. Inventory, testing, and excavation of a turn-of-the-century historic trash dump.
- 1987-1988 National Archeological Database Encoding Project—California and Arizona. Encoding bibliographic information on 1500 archeological reports.
- 1987-1988 Elko District and Winnemucca Districts Fire Rehabilitation Inventories, central Nevada. Inventory of burned tracts prior to rangeland rehabilitation.
- 1987-1989 Cottonwood Canyon Cliff Dwelling Excavation and Stabilization Project, southwestern Utah. Excavation and stabilization of a large Virgin Anasazi cliff dwelling.
- 1987-1989 Snyderville Historic Townsite Project, northern Utah. Inventory, documentation, archival research, and testing on a historic town dating to the 1850s.

- 1988 National Archeological Database Encoding Project—Nevada. Encoding bibliographic information on 4500 archeological and historical projects conducted in the state.
- 1988 Salt Lake City International Airport Expansion Inventory, northern Utah. Inventory and testing.
- 1988-1989 Grand Valley Inventory, western Colorado. Inventory of wildlife rehabilitation lands.
- 1988-1989 Bonneville Estates Rockshelter Excavations, eastern Nevada. Test excavation of a dry stratified rockshelter with deposits dating from 6000 B.P. to the historic period.
- 1988-1989 Anderson Junction Inventory, Testing, and Oral History Project, southwestern Utah. Inventory, archival, and historical research and limited testing.
- 1989 State Road 9 Testing Project, southwestern Utah. Testing of a Paiute rockshelter site and a Pueblo I village site and Native American consultation.
- 1989 McCoy Mine Inventory, central Nevada. Inventory of 9000 acres south of Battle Mountain, Nevada.
- 1989 State Road 21 Inventory, west-central Utah. Inventory of a road right-of-way.
- 1989-1991 Burr Trail Excavation Project, south-central Utah. Data recovery at nine Archaic, Fremont, and Paiute campsites and Native American consultation.
- 1990 Tucs-Mac Inventory Project, central Nevada. Inventory of 2500 acres north of Carlin, Nevada.
- 1990 GRB Seismic Line 1 Inventory Project, southwestern Wyoming. Inventory of 80 mi of right-of-way in Sweetwater County.
- 1990 Lower James Creek Inventory, north-central Nevada. Inventory of 1200 acres in Eureka County, Nevada.
- 1990-1991 North Block Testing Project, northeastern Nevada. Testing of 15 Archaic, Numic, and Late Prehistoric sites near Elko, Nevada.
- 1990-1991 Rodeo Creek Inventory, northern Nevada. Inventory of 2500 acres north of Carlin, Nevada.
- 1990-1991 The Betze Project, northern Nevada. Preparation of a treatment plan for archeological sites in Little Boulder Basin.
- 1990-1992 Santa Fe Site Data Recovery Project, north-central Nevada. Excavation of an Elko site north of Carlin.
- 1991 North Brady Vibroseis Project, Wyoming. Inventory.

- 1992 Pacific and Blue Bell Parcels Inventory, Humboldt County, Nevada. Inventory of 380 acres.
- 1992 King's Canyon Inventory. Inventory of 220 acres in west-central Utah.
- 1992-1993 Temple Mountain/Tomsich Butte Historic Mining Districts Evaluation, south-central Utah. Inventory and assessment of two mining districts.
- 1992-1995 Yaha Site Data Recovery Project, north-central Nevada. Data recovery at a small open lithic scatter.
- 1992-1995 Heap Leach Data Recovery Program, north-central Nevada. Data recovery of six historic properties.
- 1992-1995 Tailings Impoundment Data Recovery Project, Area I, north-central Nevada. Excavation of six prehistoric sites and one historic site and archival research.
- 1993 Roosters Comb Inventory, Lander County, Nevada. Inventory of 500 acres.
- 1993 Skull Valley 3-D Seismic Inventory, western Utah. Inventory of 511 acres.
- 1993 Emigrant Inventory, Area II, north-central Nevada. Inventory of 600 acres.
- 1993 Site 48LN1584 Reevaluation, southwest Wyoming. National Register reevaluation of an open site.
- 1993- Site 26EU1785 Data Recovery Project, north-central Nevada. Excavation of an open campsite.
- 1993-1995 Site 26EU1494 Data Recovery Project, north-central Nevada. Excavation of an open campsite.
- 1994 Worland Seismic Inventory, Areas 1 and 2, north-central Wyoming. Inventory of 50 mi of right-of-way, Washakie County.
- 1994-1997 East Basin Data Recovery Program, north-central Nevada. Excavation of three open lithic scatter sites.
- 1994 Gold Quarry Haul Road Inventory, Part II, north-central Nevada. Inventory of 6 mi of haul road.
- 1994 Marigold Inventory, Humboldt County, Nevada. Inventory of 1880 acres.
- 1994-1997 Gold Quarry Data Recovery Project, north-central Nevada. Data recovery excavations at four prehistoric sites.
- 1994-1996 Tailings Impoundment Data Recovery Project, Area II, north-central Nevada. Data recovery at six prehistoric sites.
- 1994 Emigrant 3-D Seismic Inventory, southwest Wyoming. Inventory of 30 mi of seismic line.

- 1994-1995 The N35(1) Cultural Resource Inventory and Ethnographic Assessment, north-east Arizona. Inventory and ethnographic assessment of 27 mi of road corridor.
- 1994 Tailings Modernization Historic Sites Reevaluation, northern Utah. Reassessment of National Register eligibility of four historic sites near Black Rock, Utah.
- 1994-1996 Leadville Historic Townsite Consultation, western Colorado. Consulting with client, archeologists, and government representatives regarding National Register significance and directions for future research and activities.
- 1994-1997 Boulder Creek Diversion Project, north-central Nevada. Excavation of two prehistoric sites.
- 1995 Secret Pass Inventory. Inventory of 400 acres in Nye County, Nevada.
- 1995 Site 26EU2124 Data Recovery Project. Excavation of an open campsite.
- 1995 Bootstrap/Capstone Cultural Resource Overview. Cultural resource overview, site evaluation, and treatment plans for cultural properties in a 5-mi<sup>2</sup> area in Elko County, Nevada.
- 1996-1997 Bootstrap Data Recovery Program. Excavation of six prehistoric sites.
- 1996-1997 Site 26EU1505 Data Recovery Project. Excavation of a small, open campsite.
- 1996-1997 Woodruff Creek Inventory. Inventory of 6000+ acres in Elko County, Nevada.
- 1997 GQX Inventory. Inventory of 2940 acres and preparation of an overview on 19 mi<sup>2</sup> in Elko and Eureka counties, Nevada.

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### TEACHING EXPERIENCE:

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- 1970 Macalester College, Teaching Assistant.
- 1971 Associated Colleges of the Midwest, San Jose, Costa Rica, Teaching Assistant.
- 1973-1976 University of Utah, Department of Anthropology, Field Instructor and Teaching Fellow.
- 1975-1976 University of Utah, Division of Continuing Education, Correspondence Study Advisor.
- 1976 University of Utah, Department of Anthropology and Division of Continuing Education, Instructor.
- 1977-1978 University of Saskatchewan, Department of Anthropology and Archeology, Assistant Professor.
- 1978-1980 California State University, Fresno, Department of Anthropology, Assistant Professor.
- 1980-1982 California State University, Fresno, Department of Anthropology, Adjunct Professor.

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Alan R. Schroedl 6

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## HONORS, AWARDS, AND FELLOWSHIPS:

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- 1967      Bloomington Police Officer's Association Scholarship.  
1967      Macalester College General Scholarship.  
1968      Barry T. Leithead Endowed Scholarship.  
1968      DeWitt Wallace Outward Bound Scholarship.  
1970      Macalester College General Scholarship.  
1971      Macalester College International Center Foreign Study Grant (Costa Rica).  
1973      University of Utah Teaching Fellowship.  
1974      University of Utah Teaching Fellowship.  
1974      University of Utah Academic Affairs Grant for Cinematography.  
1974      Utah Museum of Natural History Film Grant.  
1977      University of Saskatchewan College of Arts and Science Discretionary Fund Grant (Canada).  
1977      Canadian National Research Council Grant (Canada).  
1979      Seminar on Chinese Studies Grant, Ministry of Education, Republic of China (Taiwan).  
1980      California State University Faculty Research Grant.  
1980      National Academy of Sciences' Committee on Advanced Study in China Research Grant: Archeology (People's Republic of China).

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## PROFESSIONAL ACTIVITIES:

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- 1980      Plenary Speaker, Symposium on the Archeology of Southern Utah, Moab, Utah.  
1983      Chairperson, Session on Current Research in Wyoming. 41st Plains Conference, Rapid City, South Dakota.  
1983-1985    Committee member, Membership Committee, Utah Professional Archeological Council.  
1984      Discussant, Dust Devil Cave Symposium. 14th Annual Great Basin Conference, Boise, Idaho.  
1986-1988    President, Utah Professional Archeological Council.  
1988      Plenary speaker, "Survival Through Time in Canyonlands", Moab, Utah.  
1992      Member, Antiquities Task Force, Division of State History, Utah.

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## REVIEWS:

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- 1977, 1990    Reviewer, *American Antiquity*.  
1979, 1987    Reviewer, *Plains Anthropologist*.  
1980, 1984    Reviewer, Academic Press series, *Advances in Archeological Method and Theory*.  
1988      Reviewer, *Current Anthropology*.  
1989, 1993    Reviewer, *The Kiva*.  
1989, 1993    Reviewer, *Utah Archaeology*.
-

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## PAPERS AND PRESENTATIONS:

---

- 1975 "Cowboy Cave." 48th Annual Pecos Conference, Bloomfield, New Mexico. August.
- 1976 "Rivers and Prehistory." English Department, University of Utah, Salt Lake City. April.
- 1977 "The Gowen Site." Television interview. CFQC-TV. Saskatoon, Saskatchewan, Canada. September.
- 1977 "Ancient Site in the City." Newspaper interview. Star Phoenix Daily Newspaper. Saskatoon, Saskatchewan, Canada. October.
- 1977 "Our Prehistoric Ancestors." Radio interview on "Our Native Land." CBC-Radio. Winnipeg, Manitoba, Canada. November.
- 1977 "Year of the Buffalo Bones." Interview with Jason Schoonover. The *Westworld* magazine, Volume 13. Vancouver, British Columbia, Canada.
- 1978 "Cowboy Cave—An Archaic Site on the Northern Colorado Plateau." Saskatoon Archeological Society Meeting, Saskatoon, Saskatchewan, Canada. January.
- 1978 (with E. G. Walker) "The Gowen Site: An Early Middle Prehistoric Site on the Northwest Plains." The 16th Annual Meeting of the Saskatchewan Archeological Society, Saskatoon, Saskatchewan, Canada. April.
- 1978 (with E. G. Walker and E. H. Koster) "Procedures and Results of Geoarcheological Studies at the Gowen Site, Saskatoon, Saskatchewan." Annual Meeting of the Geological Association of Canada, Toronto, Ontario, Canada. April.
- 1978 "The Archaic Period People of the Colorado Plateau." Fresno County Archeological Association Meetings, Fresno, California. October.
- 1979 "Archeoastronomy in North America." Myths and Science Program, California State University, Fresno, California. April.
- 1979 "The Archeology of Glen Canyon National Recreation Area: Past, Present, and Future." 2nd Annual Conference on Scientific Research on the National Parks, San Francisco, California. November.
- 1980 "Multivariate Analysis of Early Plains Projectile Points." 13th Annual Meeting of the Canadian Archeological Association. Saskatoon, Saskatchewan, Canada. April.
- 1980 "The Archaic of the Northern Colorado Plateau." Symposium of the Archeology of Southern Utah, Moab, Utah. May.

- 1982 "Cultural Resource Management in the United States." University of Saskatchewan, Saskatoon, Saskatchewan, Canada. November.
- 1982 "Microcomputer Applications to Archeology." University of Saskatchewan, Saskatoon, Saskatchewan, Canada. November.
- 1983 "1983 Excavations in Southwestern Wyoming." 41st Plains Conference, Rapid City, South Dakota. November.
- 1986 "The Central Utah Project." Utah Professional Archeological Council Meetings, Zion National Park, Utah. July.
- 1986 "Canyonlands Survey Project 1986." Utah Professional Archeological Council Meetings, Salt Lake City, Utah. December.
- 1988 "Archaic Occupation on Colorado Plateau." Archeology Week Speaker, Salt Lake City, Utah. April.
- 1990 "The Canyonlands Archeological Project." Utah Statewide Archeological Society Speaker, Moab, Utah. September.
- 1993 "Current Status of Archeology in the Little Boulder Basin Area." Nevada Archeological Association Meetings, Elko, Nevada. May.
- 1994 "CRM Archeology in Little Boulder Basin." University of Nevada, Las Vegas Anthropology Society. November.
- 1994 "Open Site Archeology in Little Boulder Basin Poster Symposium." Great Basin Anthropological Conference, Elko, Nevada. October.
- 1994 "Open Site Archeology in Little Boulder Basin." Multimedia presentation at Great Basin Anthropological Conference, Elko, Nevada. October.

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**PUBLICATIONS:**

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- 1972 The Dish Ran Away with the Spoon: Ethnography of Kitchen Culture. In *The Cultural Experience: Ethnography in Complex Society*, edited by J. P. Spradley and D. W. McCurdy, pp. 177-189. Science Research Associates, Palo Alto, California.
- 1974 The Excavation of Innocents Ridge. *Utah Archeology* 20(3):2.
- 1975 A Relative Measure of Psychological Saliency. *Journal of the Steward Anthropological Society* 6(2):138-143.
- 1975 The Excavation of Cowboy Cave. *Utah Archeology* 21(1):1.

- 1975 *Innocents Ridge and the San Rafael Fremont*. Antiquities Section Selected Papers 1(2):29-66. Utah State Historical Society, Salt Lake City.
- 1976 The Bull Creek Excavations. *Utah Archeology* 22(2):1-4.
- 1977 The Paleo-Indian Period on the Colorado Plateau. *Southwestern Lore* 43(3):1-9.
- 1977 The Grand Canyon Figurine Complex. *American Antiquity* 42:254-265.
- 1978 (with E. G. Walker) A Preliminary Report on the Gowen Site: An Early Middle Prehistoric Site on the Northwest Plains. *Napao* 8(1 and 2):1-5.
- 1979 The Archaic Inhabitants of the Northern Colorado Plateau. *Utah Historical Quarterly* 47:344-360.
- 1979 *A Selected Bibliography of Utah Archeology*. Anthropological Papers 102. University of Utah, Salt Lake City.
- 1980 Cultural Features, Ground Stone, and Pottery and Clay. In *Sudden Shelter*, by J. D. Jennings, A. R. Schroedl, and R. N. Holmer, pp. 31-62, 125-142. Anthropological Papers 103. University of Utah, Salt Lake City.
- 1980 (with J. D. Jennings and R. N. Holmer) *Sudden Shelter*. Anthropological Papers 103. University of Utah, Salt Lake City.
- 1985 *Archaic and Late Prehistoric Adaptation in Southwestern Wyoming: The Frontier Pipeline Excavations*. Cultural Resource Series 3. Bureau of Land Management, Wyoming.
- 1988 Site Location and Predictive Modelling. In *The Tar Sands Project. An Inventory and Predictive Model for Central and Southern Utah*, by B. L. Tipps, pp. 113-134. Cultural Resource Series 22. Bureau of Land Management, Utah State Office, Salt Lake City.
- 1989 The Power and the Glory: Shamanistic Arts of the Archaic Period. *Canyon Legacy* 1(1):13-17.
- 1989 (with B. L. Tipps and N. J. Hewitt) Research Design. In *Cultural Resource Inventory and Testing in the Salt Creek Pocket and Devils Lane Areas, Needles District, Canyonlands National Park, Utah*. Selections from the Division of Cultural Resources 1. National Park Service, Rocky Mountain Region, Denver.
- 1991 Paleoindian Occupation in the Eastern Great Basin and Northern Colorado Plateau. *Utah Archaeology* 1991 4(1):1-15.
- 1993 Cultural Affiliation and Age of the Broadbent Cache Site. *Utah Archaeology* 6(1):95-100.

- 1994 (with S. D. Chaffee, M. Hyman, M. W. Rowe, N. J. Coulam, and K. Hogue) Radiocarbon Dates on the All American Man Pictograph. *American Antiquity* 59(4):769-781.
- 1994 (with N. J. Coulam) Cowboy Cave Revisited. *Utah Archaeology* 1994 7(1):1-34.
- 1996 (with N. J. Coulam) Early Archaic Clay Figurines from Cowboy and Walters Caves in Southeastern Utah. *Kiva* 61(4):401-412.
- 1996 Eastern Great Basin Archaic. In *Archeology of Prehistoric North America: An Encyclopedia*, edited by Guy Gibbons. Garland Publishing, Inc., New York. City.

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### REPORTS AND MANUSCRIPTS:

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- 1971 An Archeological Survey of the Playa Panama Region, Nicoya Peninsula, Guanacaste Province. Submitted to Associated Colleges of the Midwest, San Jose, Costa Rica.
- 1971 The Turrucars Mastodon Site. Submitted to Associated Colleges of the Midwest, San Jose, Costa Rica.
- 1972 (with J. P. Spradley) The Raw and the Cooked: Ethnography of Communicative Competence. Submitted to Macalester College, St. Paul, Minnesota.
- 1976 Archeological Survey of the Dangling Rope Area. National Park Service, Midwest Archeological Center, Lincoln.
- 1976 The Prehistoric Cultural Resources of Lake and Moqui Canyons, Glen Canyon National Recreation Area. Submitted to National Park Service, Midwest Archeological Center, Lincoln.
- 1976 The Archaic of the Northern Colorado Plateau. Ph.D. dissertation, Department of Anthropology, University of Utah, Salt Lake City.
- 1977 Archeological Research in Glen Canyon, 1977. Submitted to National Park Service, Midwest Archeological Center, Lincoln.
- 1980 The Northern Colorado Plateau: An Overview of the Fundamental Prehistoric Context. In Heritage Resource Study Series for the Mount Emmons Project of AMAX, Inc., Gunnison County, Colorado, by K. D. Black. Centuries Research, Inc., Montrose, Colorado. Submitted to State Historic Preservation Office, Denver.
- 1980 Cultural Resource Inventory: MAPCO's Rocky Mountain Liquid Hydrocarbons Pipeline, Utah. Woodward-Clyde Consultants, San Francisco. Submitted to Bureau of Land Management, Salt Lake City.

- 1980 Cultural Resources Survey for Seismograph Services, Inc., in the Wah Wah Mountains in Southwestern Utah. Centuries Research, Inc., Montrose, Colorado. Submitted to Bureau of Land Management, Cedar City, Utah.
- 1981 Cultural Resource Inventory: MAPCO's Rocky Mountain Liquid Hydrocarbons Pipeline, Utah. Addendum. Woodward-Clyde Consultants, San Francisco. Submitted to Bureau of Land Management, Salt Lake City.
- 1982 Archeological Evaluation and Site Inventory in Glen Canyon National Recreation Area, 1978. Submitted to Midwest Archeological Center, Lincoln.
- 1983 (with B. L. Tipps and C. S. Smith) Preliminary Report of a Class II Inventory in the San Rafael Swell, Circle Cliffs and White Canyon Tar Sands Study Tracts. P-III Associates, Inc., Salt Lake City. Submitted to Bureau of Land Management, Richfield, Utah.
- 1984 Site Locational Prediction and Modelling. In The Tar Sands Project: Cultural Resource Inventory and Predictive Modelling in Central and Southern Utah, by B. L. Tipps. Cultural Resources Report 405-1-8401. P-III Associates, Inc., Salt Lake City. Submitted to Bureau of Land Management, Richfield, Utah.
- 1984 Executive Summary of the Cultural Resource Program for the ETSI Pipeline Project. Cultural Resources Report 401-1-8411. P-III Associates, Inc., Salt Lake City. Submitted to ETSI Pipeline Company, Houston, Texas.
- 1984 Test Excavations at Site 48BO379. Cultural Resources Report 408-1-8415. P-III Associates, Inc., Salt Lake City. Submitted to Utah Department of Transportation, Ogden, Utah.
- 1984 Archaic and Late Prehistoric Adaptation: The Frontier Pipeline Excavations in Southwestern Wyoming. Cultural Resources Report 304-1-8418. P-III Associates, Inc., Salt Lake City. Submitted to Bureau of Land Management, Kemmerer, Wyoming.
- 1984 (with B. L. Tipps) Assessment of Cultural Resources for the Clear Creek Canyon Feasibility Study. Cultural Resources Report 408-4-8420. P-III Associates, Inc., Salt Lake City. Submitted to John Short and Associates, Salt Lake City.
- 1986 Fremont Habitation Sites: A Predictive Model of Site Location for the Irrigation and Drainage System, Bonneville Unit, Central Utah Project. Cultural Resources Report 415-1-8606. P-III Associates, Inc., Salt Lake City. Submitted to Bureau of Reclamation, Provo, Utah.
- 1986 Preliminary Report on the Excavation of the Five Sites Along the N-16 Road Project, Near Inscription House, Arizona. Cultural Resources Report 412-1-8607. P-III Associates, Inc., Salt Lake City. Submitted to Bureau of Indian Affairs, Navajo Area Office, Gallup, New Mexico.

- 1986 Preliminary Report on the Excavation and Ethnohistorical Research Along the N-16 Road Project, Near Inscription House, Arizona. Cultural Resources Report 412-1-8614. P-III Associates, Inc., Salt Lake City. Submitted to Bureau of Indian Affairs, Navajo Area Office, Gallup, New Mexico.
- 1986 (with K. W. Russell and A. M. Tratebas) Cultural Resource Inventory and Testing in Little Boulder Basin, Eureka County, Nevada: Final Report. Cultural Resources Report 416-27-8624. P-III Associates, Inc., Salt Lake City. Submitted to Bureau of Land Management, Elko District Office, Elko, Nevada.
- 1987 Cultural Resource Inventory of the Bailey Mountain Fire Rehabilitation Area, Elko County, Nevada. Cultural Resources Report 423-1-8726. P-III Associates, Inc., Salt Lake City. Submitted to Bureau of Land Management, Elko District Office, Elko, Nevada.
- 1988 (editor and compiler) Cultural Resource Investigations on the Kaibab Plateau, Northern Arizona: The Highway 67 Data Recovery Project. Cultural Resources Report 420-1-8819. P-III Associates, Inc., Salt Lake City. Submitted to National Park Service, Western Region, San Francisco.
- 1989 Historic and Prehistoric Resources in Grand Valley: Cultural Resource Inventory of the Grand Valley Wildlife Habitat Replacement Area. Cultural Resources Report 433-01-8905. P-III Associates, Inc., Salt Lake City. Submitted to Bureau of Reclamation, Upper Colorado Region, Salt Lake City.
- 1989 (with N. J. Coulam) Bonneville Estates Rockshelter. Cultural Resources Report 435-01-8906. P-III Associates, Inc., Salt Lake City. Submitted to Bureau of Land Management, Elko District Office, Elko, Nevada.
- 1989 (editor and compiler) Kayenta Anasazi Archeology and Navajo Ethnohistory on the Northwestern Shonto Plateau: The N-16 Project. Cultural Resources Report 412-01-8909. P-III Associates, Inc., Salt Lake City. Submitted to Bureau of Indian Affairs, Navajo Area Office, Gallup, New Mexico.
- 1989 (with G. M. Popek and T. T. Prince) Cultural Resource Inventory of the Little Valley Use Area After the Firex-88 Exercise, Tooele County, Utah. Cultural Resources Report 440-01-8910. P-III Associates, Inc., Salt Lake City. Submitted to Utah Division of State History, Antiquities Section, Salt Lake City.
- 1989 (with T. T. Prince) Cultural Resource Inventory of SR 21 from the Nevada Border to Millard/Beaver County Line. Cultural Resources Report 436-12-8911. P-III Associates, Inc., Salt Lake City. Submitted to Utah Division of State History, Antiquities Section, Salt Lake City.
- 1989 Addendum to Cultural Resource Inventory Along Road 9, I-15 to the Virgin River, Milepost 0 to 5, Washington County, Utah. Cultural Resources Report 436-11-8912. P-III Associates, Inc., Salt Lake City. Submitted to Utah Division of State History, Antiquities Section, Salt Lake City.

- 1989 (with T. T. Prince, G. M. Popek, and B. L. Tipps) Cultural Resource Inventory of SR 18, Snow Canyon to Veyo, From Milepost 12.67 to Milepost 19.8, Washington County, Utah. Cultural Resources Report 436-10-8913. P-III Associates, Inc., Salt Lake City. Submitted to Division of State History, Antiquities Section, Salt Lake City.
- 1989 Preliminary Report: Class II and Class III Cultural Resource Inventory In and Around McCoy Mine, Lander County, Nevada. Cultural Resources Report 443-01-8914. P-III Associates, Inc., Salt Lake City. Submitted to Bureau of Land Management, Battle Mountain District Office, Battle Mountain, Nevada.
- 1989 (with B. L. Tipps) Class II and III Cultural Resource Inventory in the Bootstrap Operations Area, Elko and Eureka Counties, Nevada. Cultural Resources Report 441-01- 8916. P-III Associates, Inc., Salt Lake City. Submitted to Bureau of Land Management, Elko District Office, Elko, Nevada.
- 1990 Culture History; Horse Canyon Rockshelter, Site 42GA3130; Site 42GA3127. In The Burr Trail Archeological Project: Small Site Archeology on the Escalante Plateau and Circle Cliffs, Garfield County, Utah, by B. L. Tipps. Cultural Resources Report 439-01-9102. P-III Associates, Inc., Salt Lake City. Submitted to Bureau of Land Management, Kanab Resource Area, Cedar City District, Kanab, Utah.
- 1991 (compiler) A Treatment Plan for Prehistoric and Protohistoric Cultural Resources in the Little Boulder Basin Area. Cultural Resources Report 452-01-9101. P-III Associates, Inc., Salt Lake City. Submitted to Bureau of Land Management, Elko District Office, Elko, Nevada.
- 1991 (with G. M. Popek) Cultural Resource Inventory of the North Brady Vibroseis Project, T. 17N, R. 100W. Cultural Resources Report 462-01-9103. P-III Associates, Inc., Salt Lake City. Submitted to Bureau of Land Management, Green River Resource Area, Rock Springs, Wyoming.
- 1991 Cultural Resource Inventory of the Green River Prospect Lines 20, 21, 22, 23, and 26, Sublette County, Wyoming. Cultural Resources Report 466-01-9106. P-III Associates, Inc., Salt Lake City. Submitted to Bureau of Land Management, Pinedale Resource Area, Pinedale, Wyoming.
- 1991 Cultural Resource Inventory of Western Geophysical UPR Seismic Lines in Carbon County, Wyoming. Cultural Resources Report 470-01-9113. P-III Associates, Inc., Salt Lake City. Submitted to Bureau of Land Management, Great Divide Resource Area, Rawlins, Wyoming.
- 1991 (compiled with B. L. Tipps) Cultural Resource Inventory, Monitoring, and National Register Evaluations in the Little Boulder Basin Area, Nevada. Cultural Resources Report 474-04-9121. P-III Associates, Inc., Salt Lake City. BLM Report 1-1342(P). Submitted to Bureau of Land Management, Elko District Office, Elko, Nevada.

- 1991 (compiled with B. L. Tipps) An Assessment of National Register Eligibility of 141 Cultural Properties Recorded by Desert Research Institute and P-III Associates, Inc., in the Western and Southern Portions of the North Block of Barrick Goldstrike Mines, Inc.'s Betze Project, Little Boulder Basin Area, Eureka County, Nevada. Cultural Resources Report 452-04-9124. P-III Associates, Inc., Salt Lake City. BLM Report 1-1523(P). Submitted to Bureau of Land Management, Elko District Office, Elko, Nevada.
- 1991 (with D. K. Newsome, K. M. Heath, B. L. Tipps, and D. W. Zeanah) An Assessment of National Register Eligibility of 29 Cultural Properties Recorded by Desert Research Institute and P-III Associates, Inc., in the Eastern Portion of the North Block of Barrick Goldstrike Mines, Inc.'s Betze Project, Little Boulder Basin Area, Eureka County, Nevada. Cultural Resources Report 452-05-9128. P-III Associates, Inc., Salt Lake City. BLM Report 1-1527(P). Submitted to Bureau of Land Management, Elko District Office, Elko, Nevada.
- 1992 (with B. L. Tipps) Cultural Resource Inventory of Two Well Pads and Access Routes in the Kane Springs Area, Grand County, Utah. Cultural Resources Report 499-01-9208. P-III Associates, Inc., Salt Lake City. Submitted to Bureau of Land Management, Grand Resource Area, Moab, Utah.
- 1992 Cultural Resource Inventory of Western Geophysical Seismic Line 92-3, Section 2, T. 23N, R. 114W, to Section 5, T. 23N, R. 115W. Cultural Resources Report 5002-01-9212. P-III Associates, Inc., Salt Lake City. Submitted to Bureau of Land Management, Kemmerer Resource Area, Kemmerer, Wyoming.
- 1992 (with D. A. Kice) Cultural Resource Inventory near King's Canyon, Millard County, Utah. Cultural Resources Report 5016-01-9234. P-III Associates, Inc., Salt Lake City. Submitted to Utah Division of State History, Antiquities Section, Salt Lake City.
- 1993 (with D. W. Zeanah, B. L. Tipps, and A. D. La Fond) Treatment Plan for Data Recovery at Four Historic Properties in the East Basin, Upper Boulder Creek, Nevada. Cultural Resources Report 489-01-9215. P-III Associates, Inc., Salt Lake City. Submitted to Bureau of Land Management, Elko District Office, Elko, Nevada.
- 1993 (with B. L. Tipps) Additional Cultural Resource Inventory Along the Access Road to Kane Springs Federal #10-1 Well, Grand County, Utah. Cultural Resources Report 5015-02-9303. P-III Associates, Inc., Salt Lake City. Submitted to Bureau of Land Management, Grand Resource Area, Moab, Utah, and Utah Division of State History, Antiquities Section, Salt Lake City.
- 1993 Evaluation of Seven Cultural Resource Properties Recorded by Desert Research Institute in or near Barrick Goldstrike's Clydesdale Parcel. Cultural Resources Report 5030-01-9315. P-III Associates, Inc., Salt Lake City. Submitted to Bureau of Land Management, Elko District Office, Elko, Nevada.

- 1993 (with A. D. La Fond) Backhoe Trench Monitoring at Sevier Valley Applied Technology Center near Backhoe Village (42SV667), Sevier County, Utah. Cultural Resources Report 5033-01-9318. P-III Associates, Inc., Salt Lake City. Submitted to Utah Division of State History, Antiquities Section, and Division of Facilities and Construction Management, Salt Lake City.
- 1995 (compiler and editor) Open Site Archeology in Little Boulder Basin: 1992 Data Recovery Excavations in the North Block Heap Leach Facility Area, North-Central Nevada. Cultural Resources Report 492-02-9317, Little Boulder Basin Series Number 3. P-III Associates, Inc., Salt Lake City.
- 1995 (with D. K. Newsome) Cultural Resource Inventory of Portions of Access Roads and a Borrow Location in the Oregon Gulch Area, Operable Unit 10, California Gulch, CERCLA Site, Lake County, Colorado. Cultural Resources Report 5058-01-9508. P-III Associates, Inc., Salt Lake City. Submitted to Resurrection Mining Company, Denver.
- 1996 (compiler and editor) Open Site Archeology in Little Boulder Basin: 1993-1994 Data Recovery Excavations in the North Block Tailings Impoundment Area, North-Central Nevada. Cultural Resources Report 5039-01-9601, Little Boulder Basin Series Number 7. Submitted to Bureau of Land Management, Elko District Office, Elko, Nevada. Draft.
- 1996 (with B. L. Tipps, R. I. Birnie, S. C. Kenzle, R. E. Walle, and A. D. La Fond) Archaic and Anasazi Archeology in the Sweetwater Area: A Treatment Plan for Data Recovery at Prehistoric Sites Along Navajo Route 35(1), Rock Point to Red Mesa, Apache County, Arizona. Cultural Resources Report 5060-04-9607. Submitted to Navajo Nation Historic Preservation Department, Roads Planning Program, Shiprock Field Office, Shiprock, New Mexico.
- 1996 Open Site Archeology Near Upper Boulder Creek: Data Recovery Excavations at Sites 26EK5270, 26EK5271, and 26EK5274 in the East Basin Development Area, Elko County, Nevada. Cultural Resources Report 5032-01-9609. Little Boulder Basin Series Number 8. P-III Associates, Salt Lake City. Submitted to Bureau of Land Management, Elko District Office, Elko, Nevada.
- 1997 Data Recovery Excavations at Site 26EK6232, Eureka County, Nevada. Cultural Resources Report 5063-01-9703. P-III Associates, Salt Lake City, Utah. Submitted to Newmont Gold Company, Carlin, Nevada.
- 1997 (with D. E. Tallman) Surface Collection, Mapping, and Testing of Site 26EK5278, Eureka County, Nevada. Cultural Resources Report 5063-02-9716. Little Boulder Basin Series Number 10. P-III Associates, Salt Lake City. Submitted to Newmont Gold Company, Carlin, Nevada.
- 1997 Two Penny Ridge: Numic Occupation Along Boulder Creek, North-Central Nevada. Cultural Resources Report 5063-03-9718. Little Boulder Basin Series Number 11. P-III Associates, Salt Lake City. Submitted to Newmont Gold Company, Carlin, Nevada. Draft.

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## PROFESSIONAL ORGANIZATIONS:

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Society of Professional Archeologists  
American Anthropological Association  
Society for Historical Archeology  
Canadian Archeological Association  
Society for Archeological Sciences  
Society for American Archeology  
New York Academy of Sciences  
Utah Professional Archeological Council

Arizona Archeological Council  
Council of Texas Archeologists  
Colorado Archeological Society  
North Dakota Archeological Association  
South Dakota Archeological Society  
Idaho Archeological Society  
Montana Archeological Society  
Society for Hawaiian Archeology

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## UNIVERSITY COURSES TAUGHT:

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Introduction to Archeology  
Introduction to Archeological Science  
Introduction to New World Prehistory  
Introduction to Cultural Anthropology  
General Anthropology  
North American Archeology

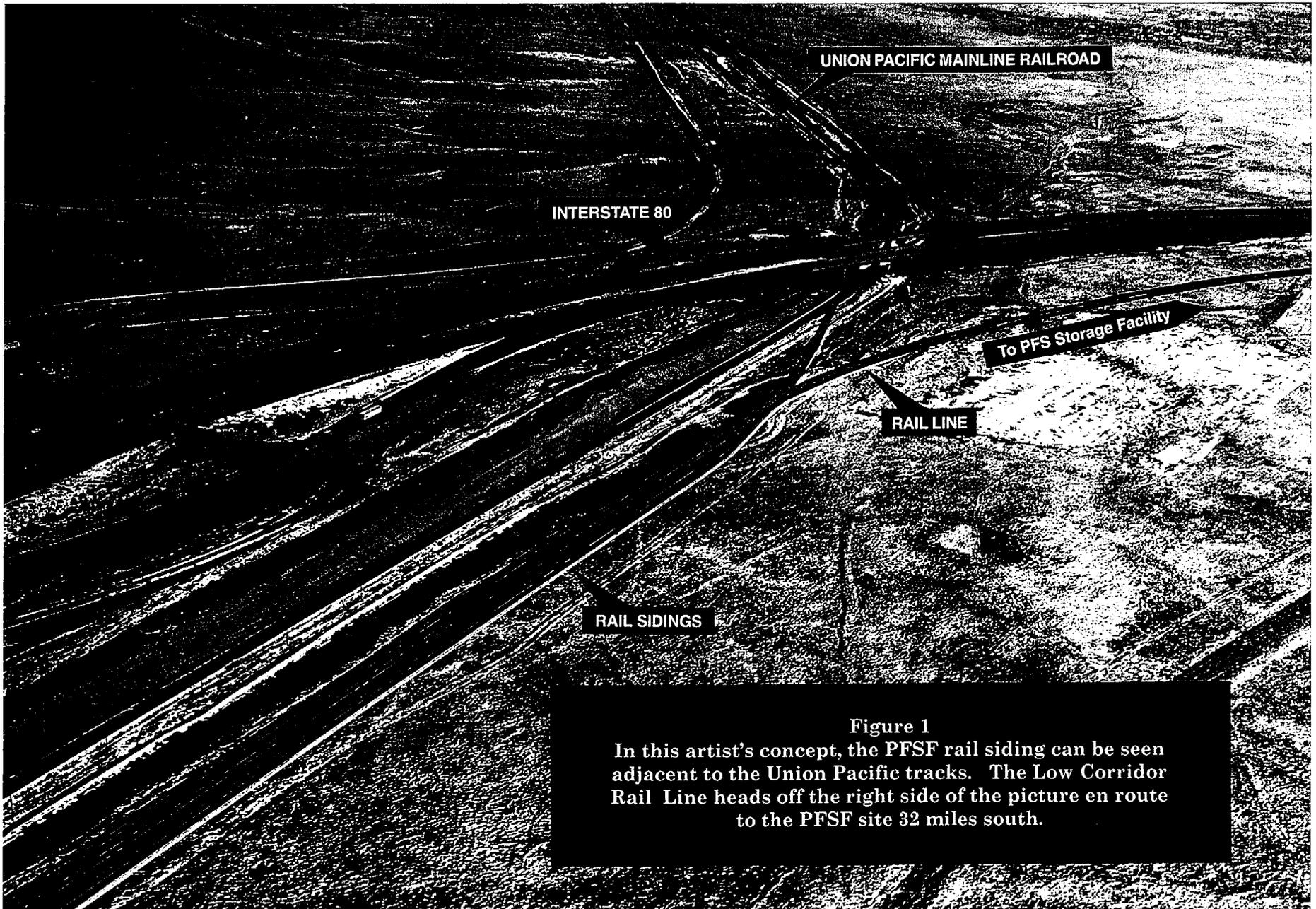
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America  
Southwestern Archeology  
Origins of Civilization  
Archeological Method and Theory  
Archeological Interpretations of Prehistory

**Attachment 14-1**

**EIS RAI 14-1**

**Artist's Concepts of the PFSF in Skull  
Valley, the Low Corridor Rail Line, and  
the Intermodal Transfer Facility at  
Full Development**

**15 Pages  
(Excluding this page)**



**Figure 1**  
In this artist's concept, the PFSF rail siding can be seen adjacent to the Union Pacific tracks. The Low Corridor Rail Line heads off the right side of the picture en route to the PFSF site 32 miles south.

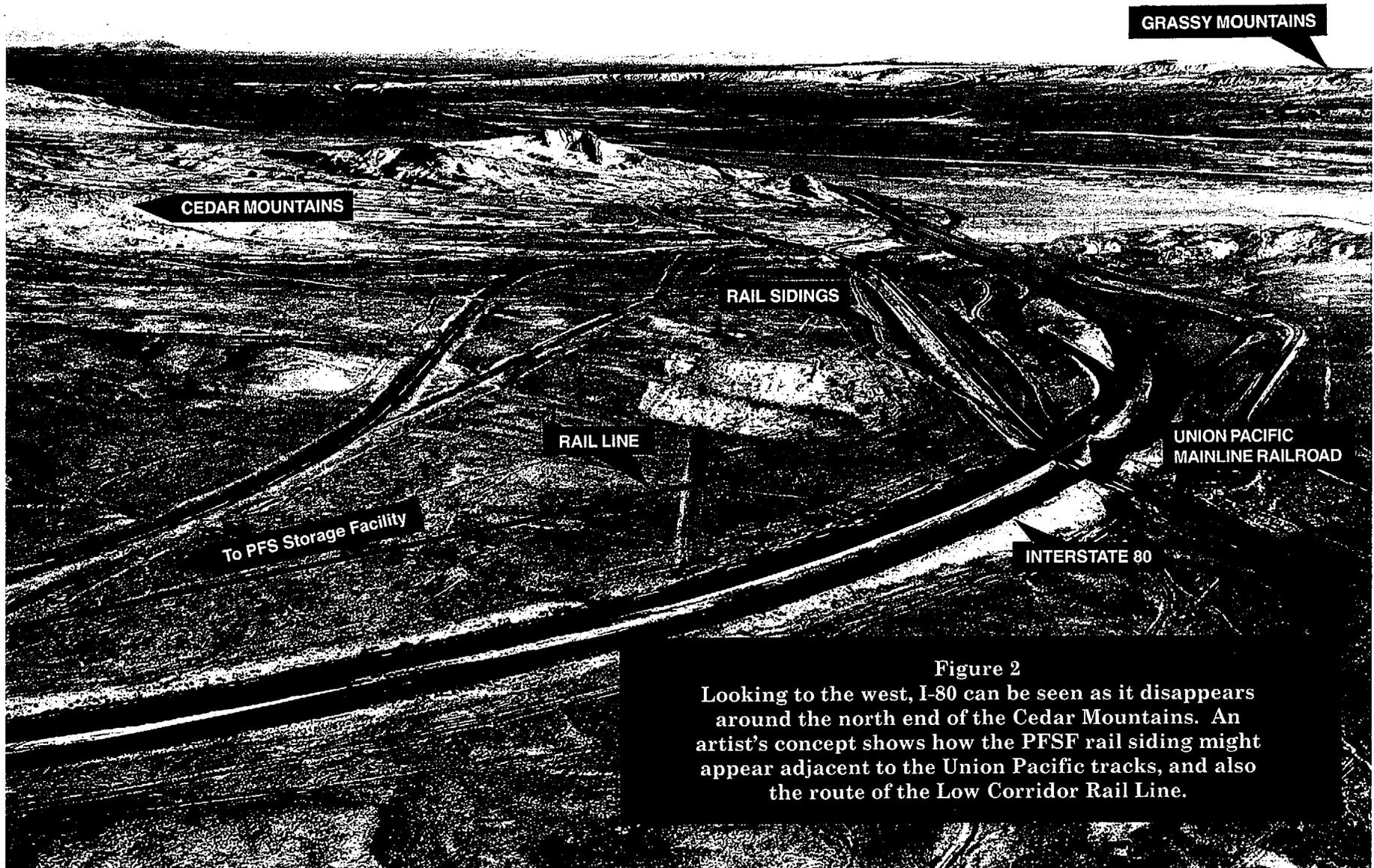
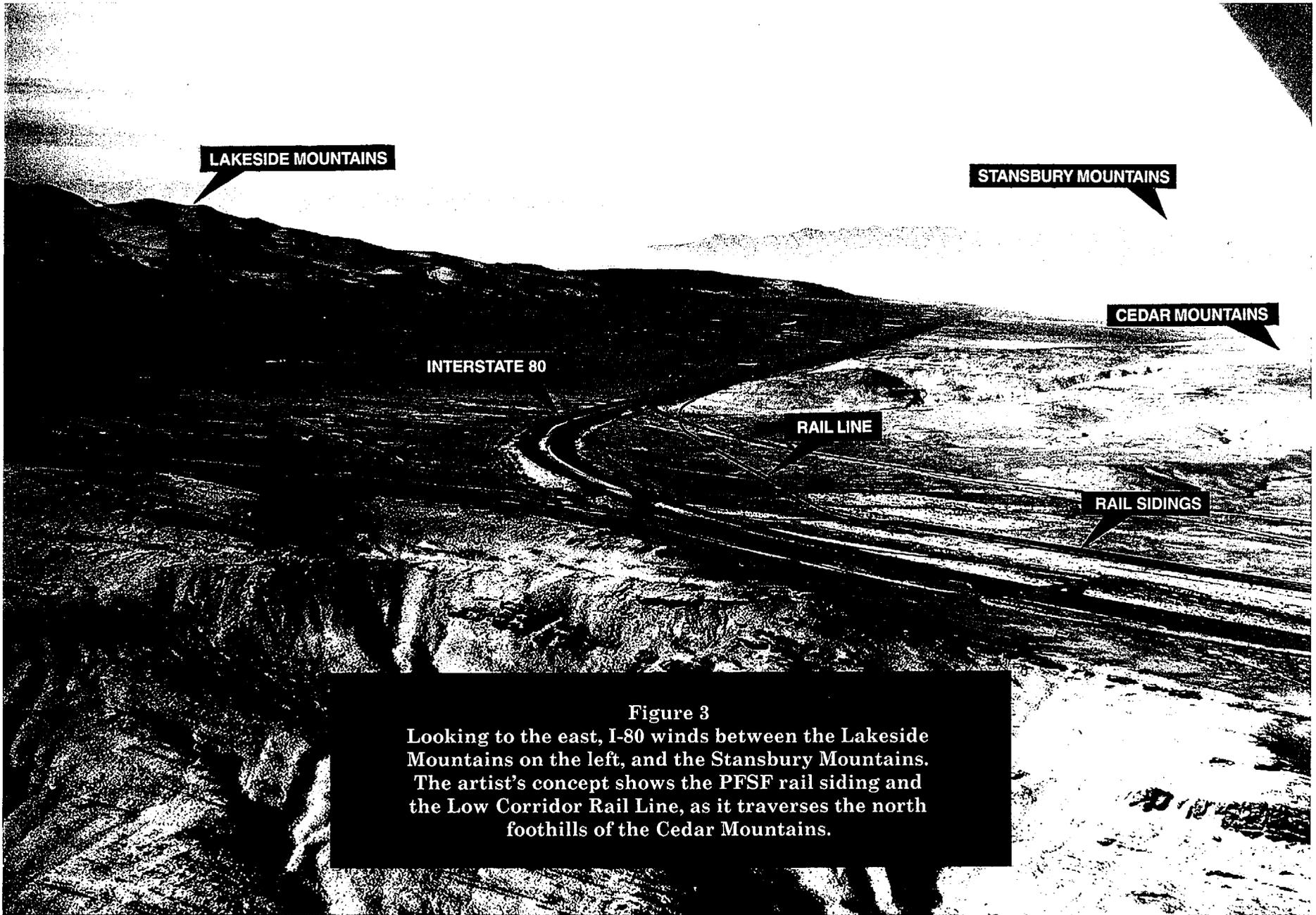
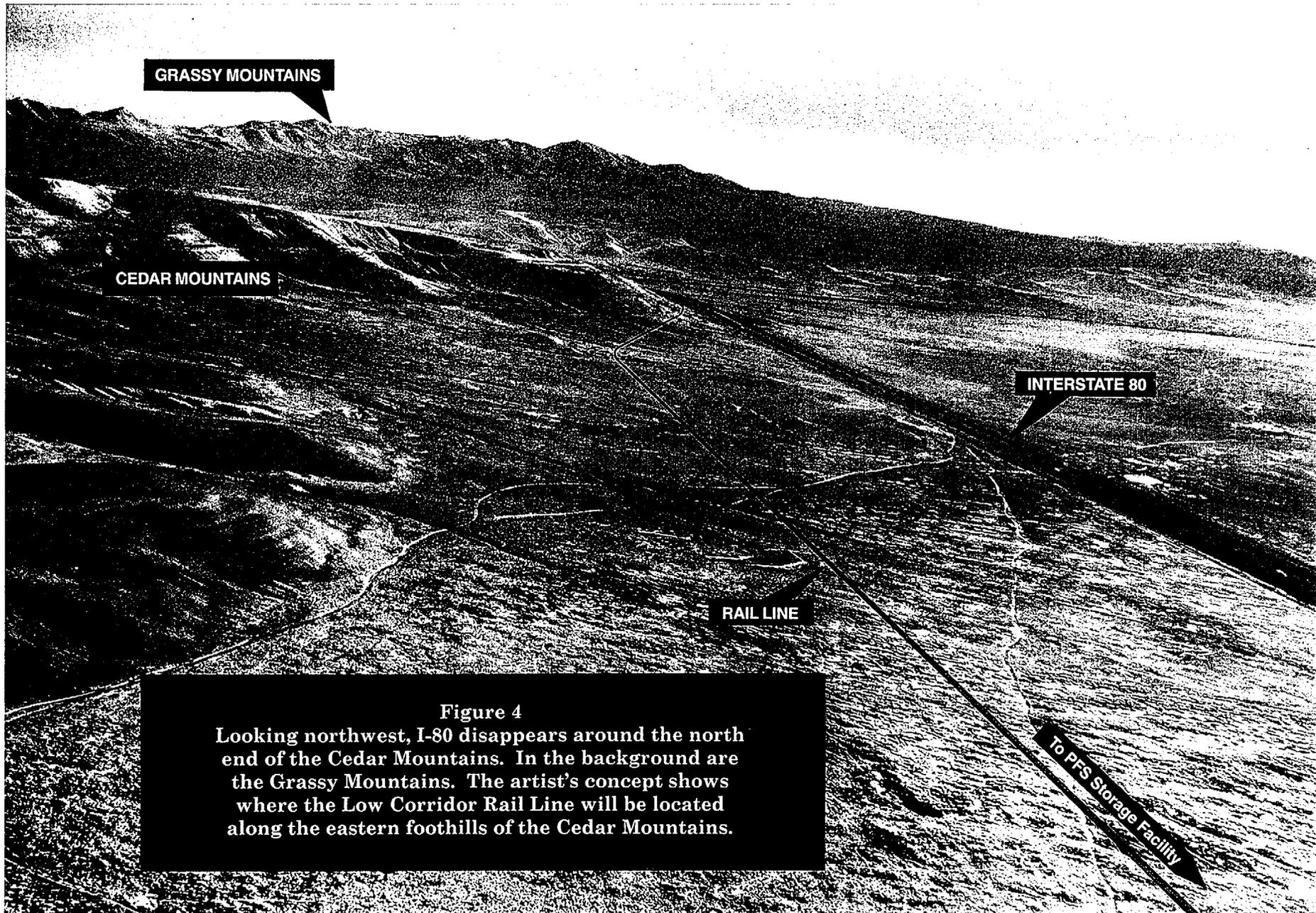


Figure 2

Looking to the west, I-80 can be seen as it disappears around the north end of the Cedar Mountains. An artist's concept shows how the PFSF rail siding might appear adjacent to the Union Pacific tracks, and also the route of the Low Corridor Rail Line.



**Figure 3**  
Looking to the east, I-80 winds between the Lakeside Mountains on the left, and the Stansbury Mountains. The artist's concept shows the PFSF rail siding and the Low Corridor Rail Line, as it traverses the north foothills of the Cedar Mountains.



GRASSY MOUNTAINS

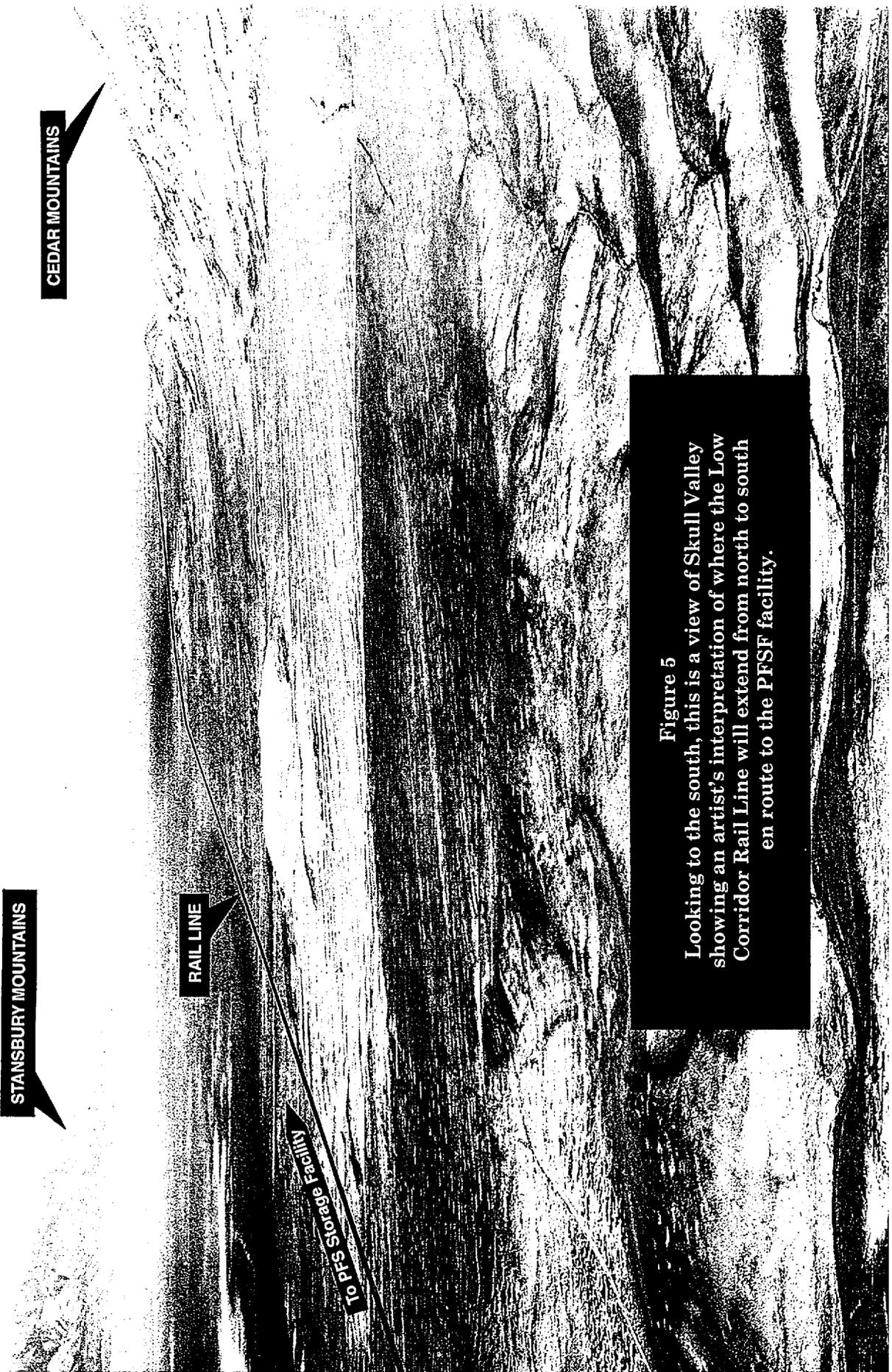
CEDAR MOUNTAINS

INTERSTATE 80

RAIL LINE

To PFS Storage Facility

**Figure 4**  
Looking northwest, I-80 disappears around the north end of the Cedar Mountains. In the background are the Grassy Mountains. The artist's concept shows where the Low Corridor Rail Line will be located along the eastern foothills of the Cedar Mountains.



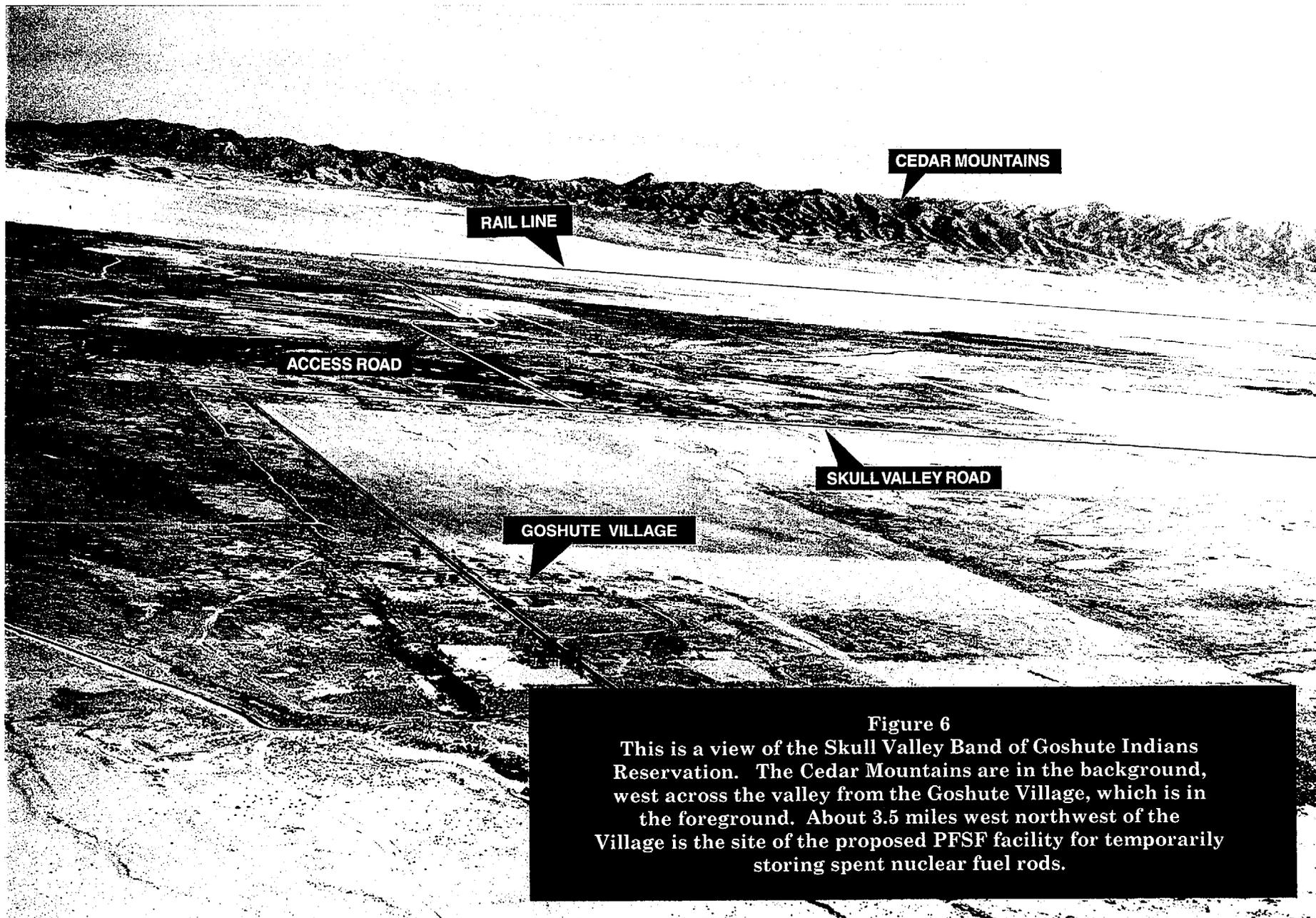
STANSBURY MOUNTAINS

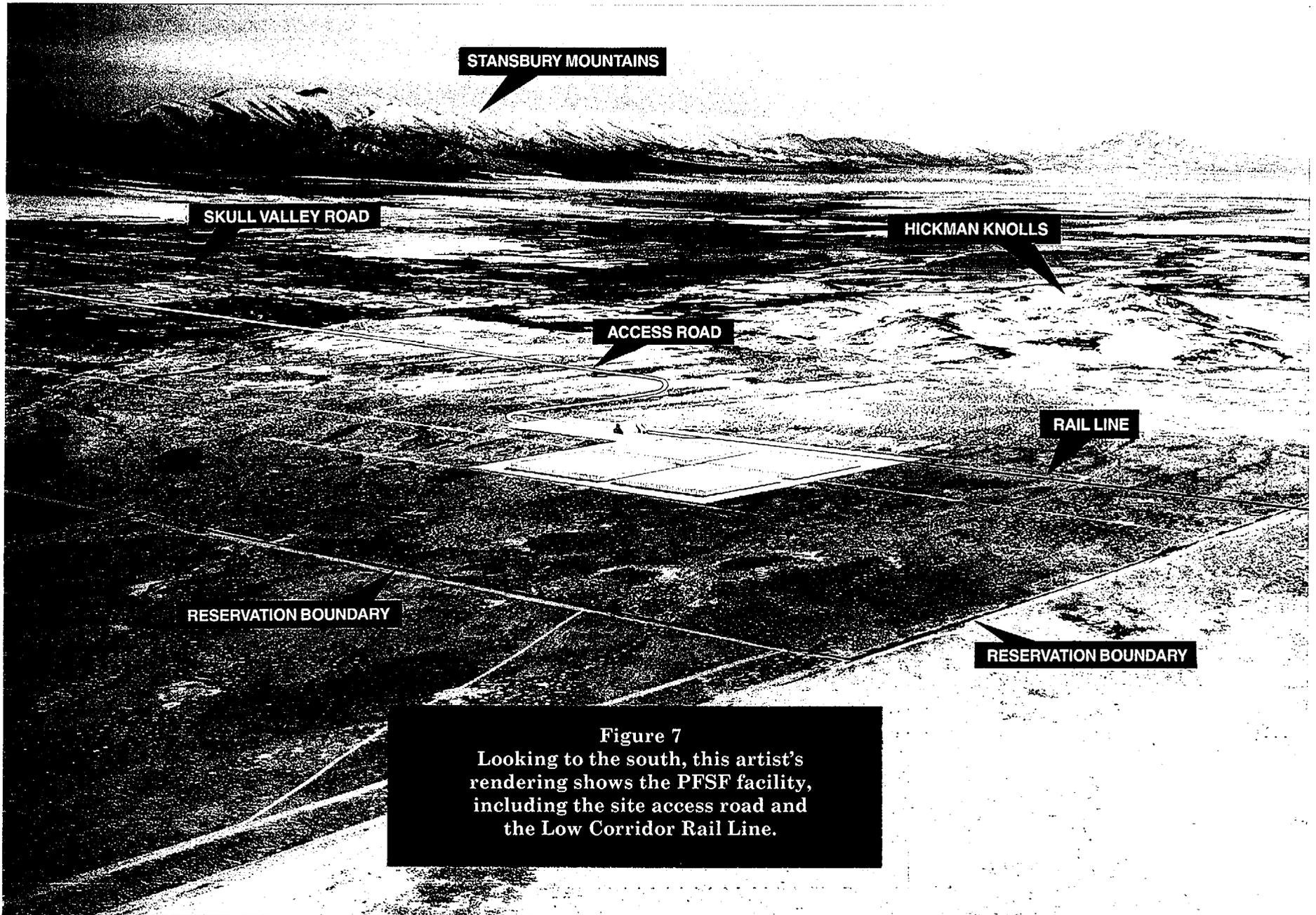
CEDAR MOUNTAINS

RAIL LINE

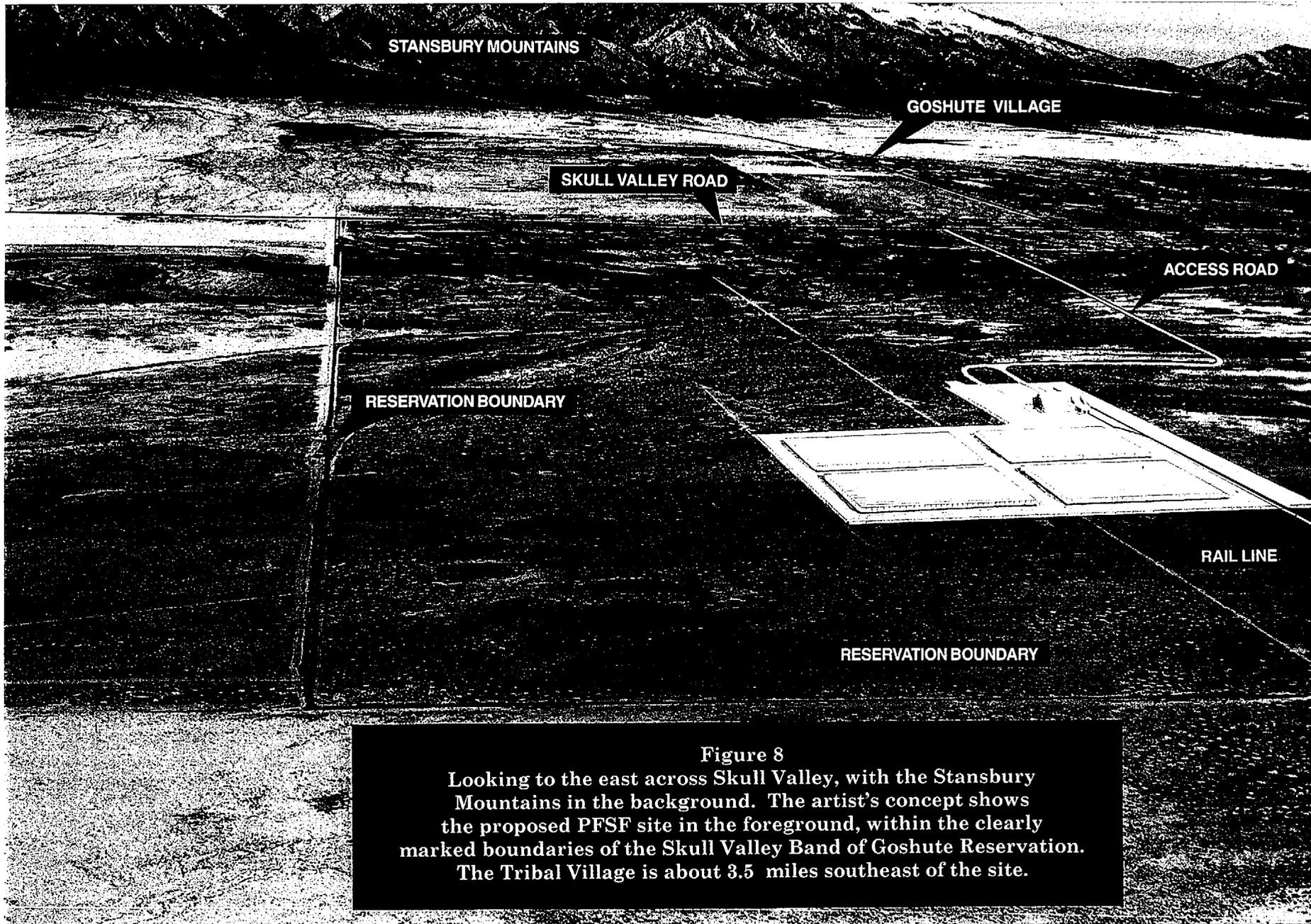
Mill Creek

Figure 5  
Looking to the south, this is a view of Skull Valley showing an artist's interpretation of where the Low Corridor Rail Line will extend from north to south en route to the PFSF facility.





**Figure 7**  
Looking to the south, this artist's rendering shows the PFSF facility, including the site access road and the Low Corridor Rail Line.



**Figure 8**  
Looking to the east across Skull Valley, with the Stansbury Mountains in the background. The artist's concept shows the proposed PFSF site in the foreground, within the clearly marked boundaries of the Skull Valley Band of Goshute Reservation. The Tribal Village is about 3.5 miles southeast of the site.



Figure 9  
Looking to the north, this artist's  
concept shows the PFSF facility,  
including the Low Corridor Rail Line  
and the site access road.

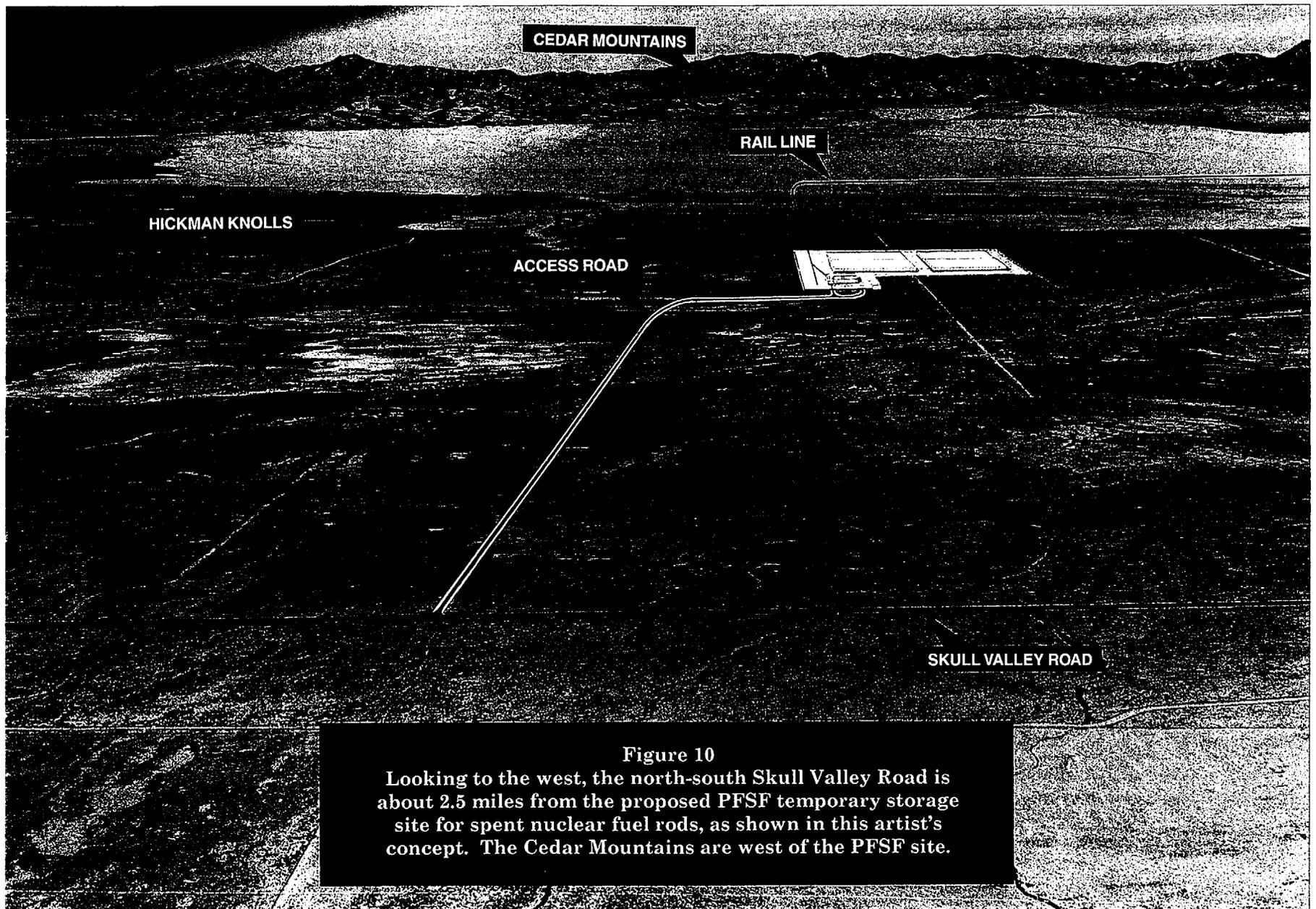
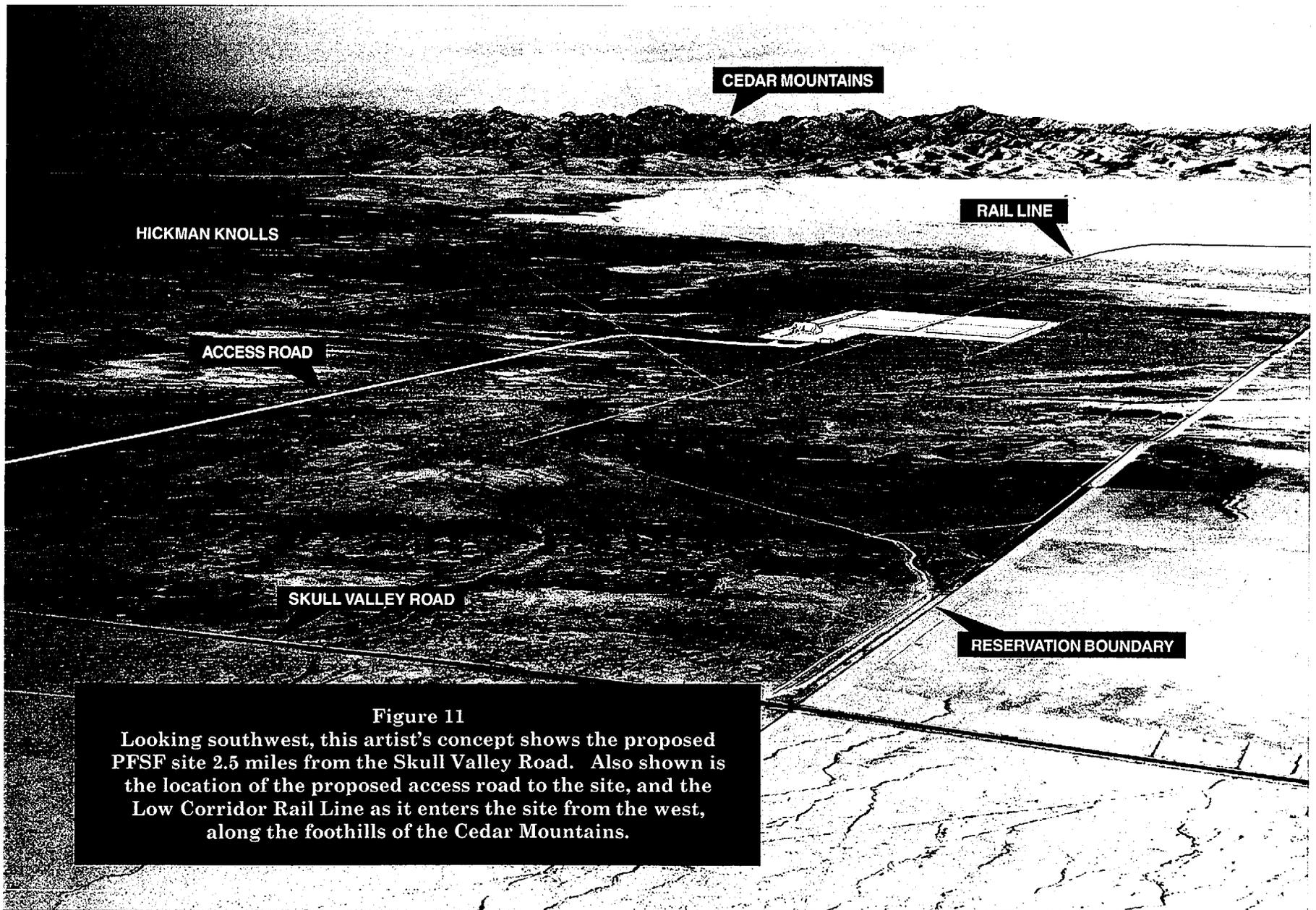


Figure 10

Looking to the west, the north-south Skull Valley Road is about 2.5 miles from the proposed PFSS temporary storage site for spent nuclear fuel rods, as shown in this artist's concept. The Cedar Mountains are west of the PFSS site.

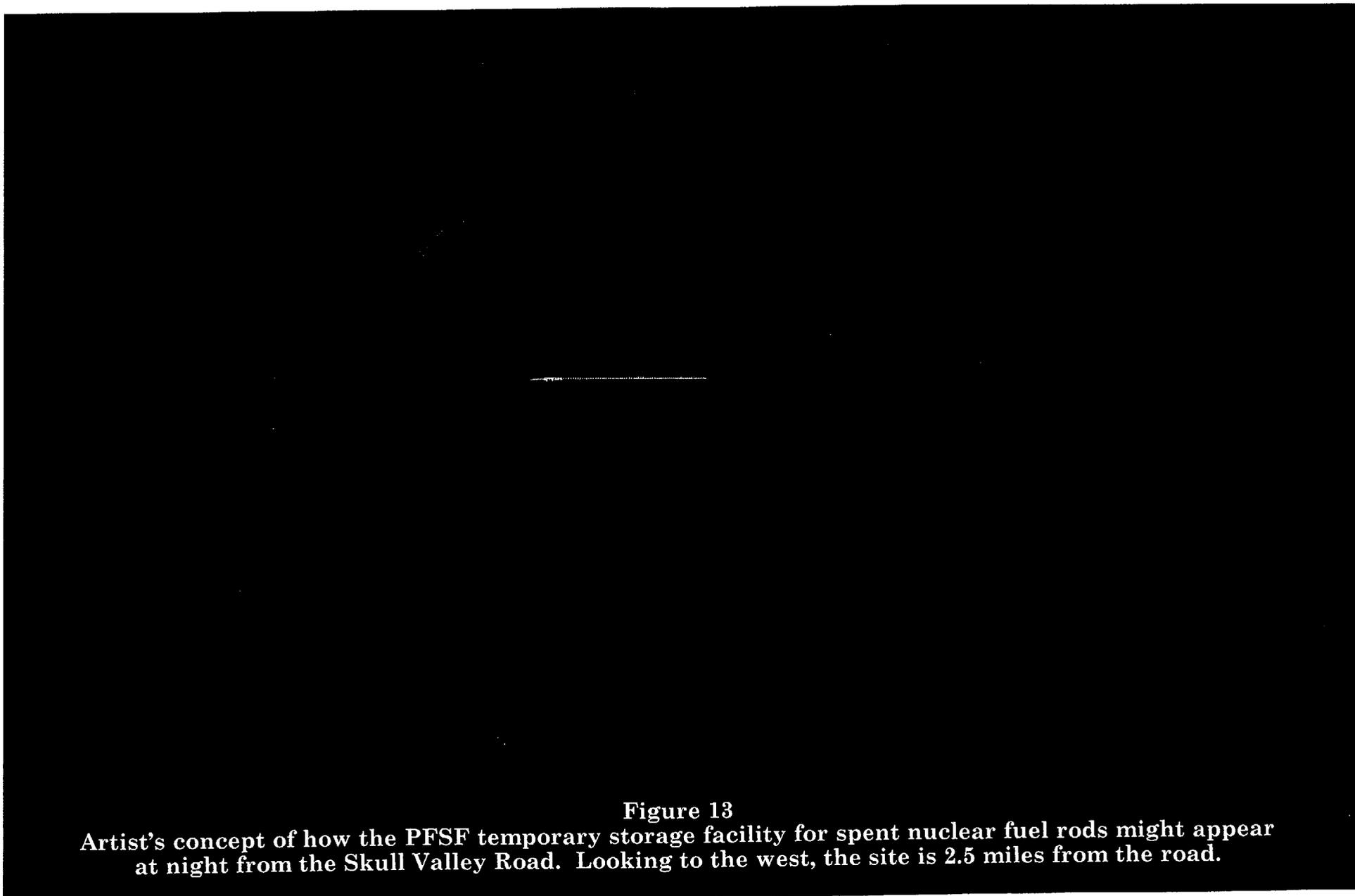


**Figure 11**  
Looking southwest, this artist's concept shows the proposed PFSF site 2.5 miles from the Skull Valley Road. Also shown is the location of the proposed access road to the site, and the Low Corridor Rail Line as it enters the site from the west, along the foothills of the Cedar Mountains.



**Figure 12**

**Artist's concept of how the PFSF temporary storage facility for spent nuclear fuel rods might appear from the Skull Valley Road. Looking to the west, the site is 2.5 miles from the road.**



**Figure 13**

**Artist's concept of how the PFSF temporary storage facility for spent nuclear fuel rods might appear at night from the Skull Valley Road. Looking to the west, the site is 2.5 miles from the road.**

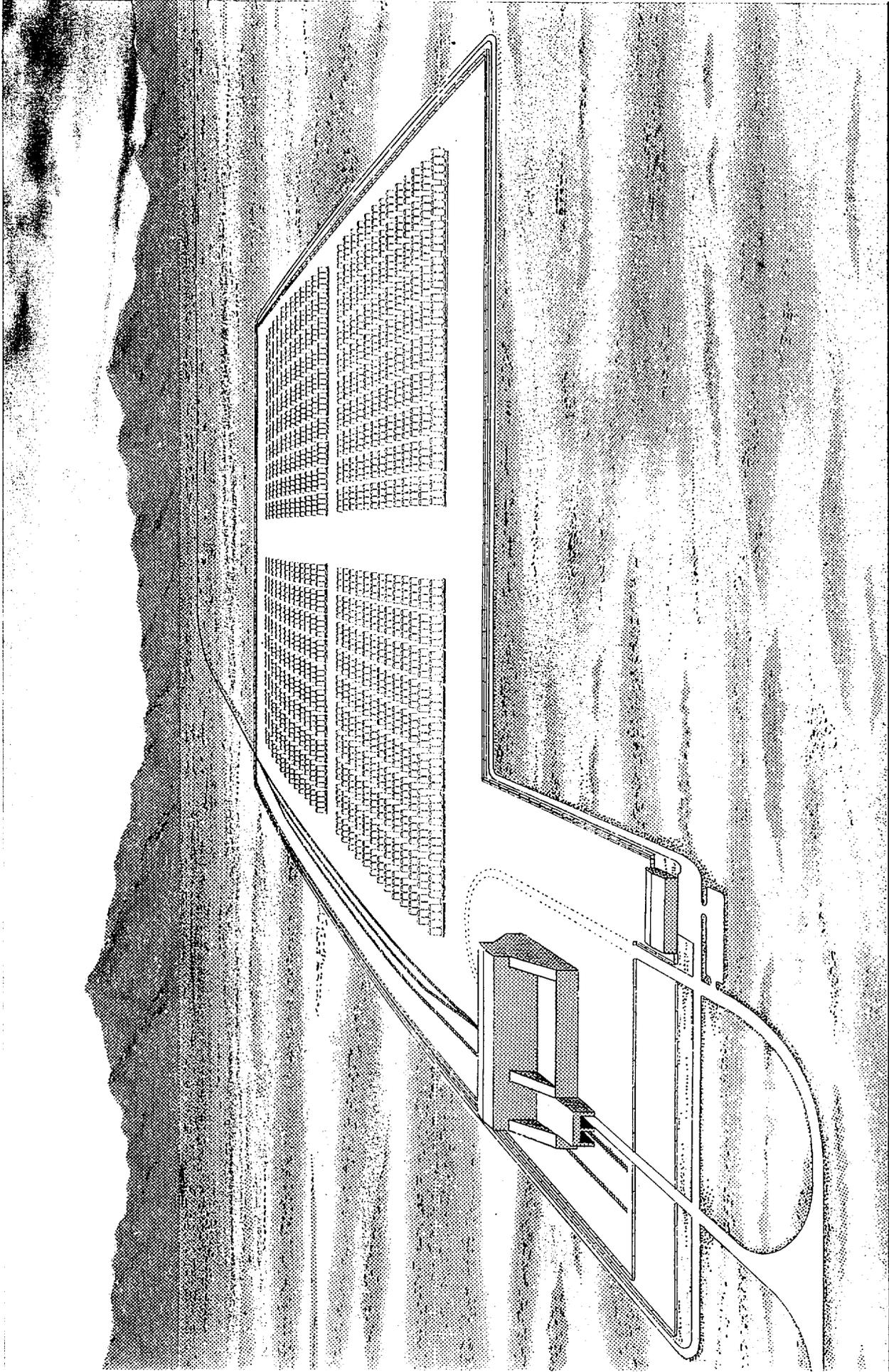


Figure 14

Artist's concept of how the PFSP facility for temporary storage of spent nuclear fuel rods might appear when constructed on the Skull Valley Band of Goshute Reservation in Tooele County, Utah.

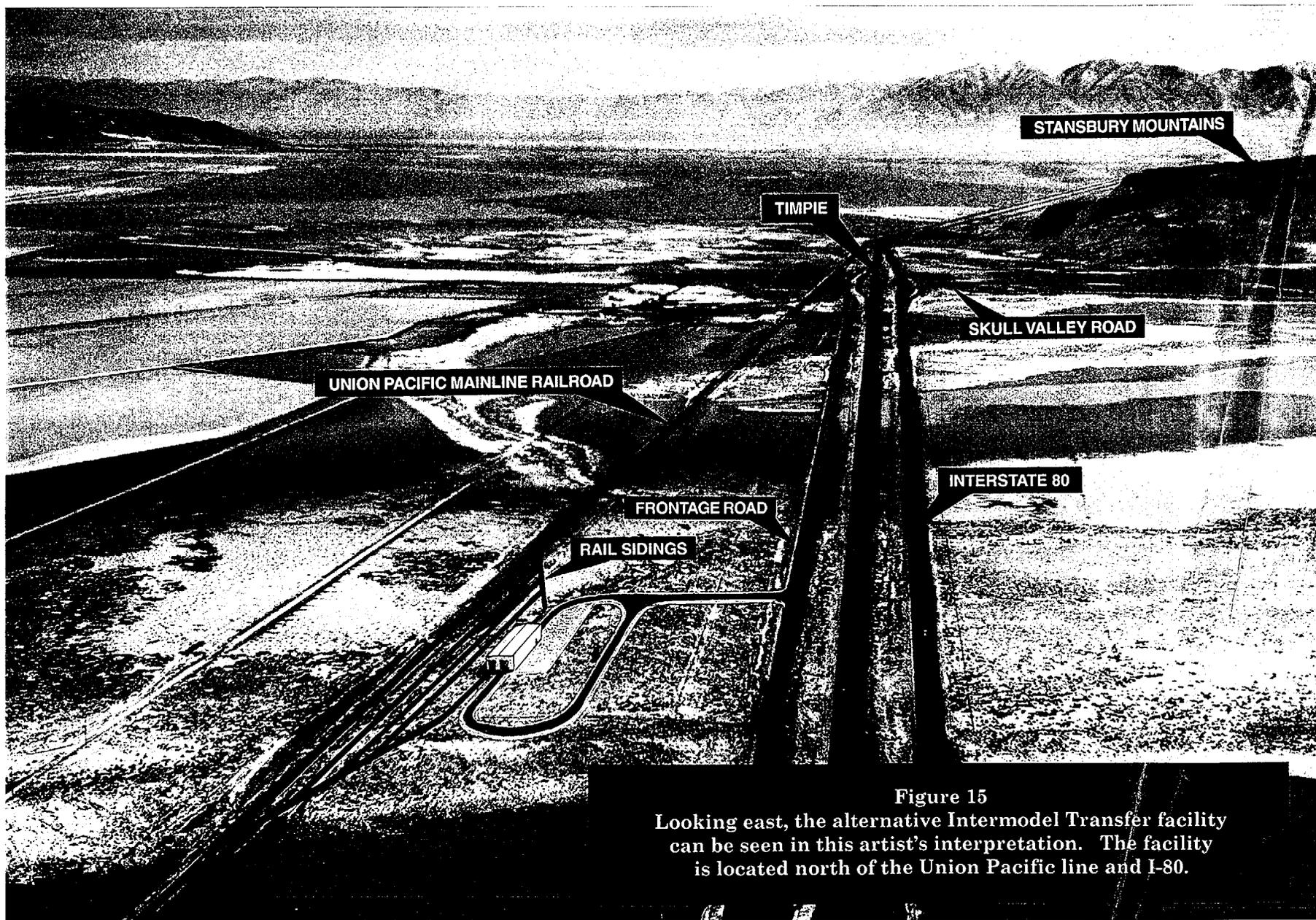


Figure 15  
Looking east, the alternative Intermodal Transfer facility  
can be seen in this artist's interpretation. The facility  
is located north of the Union Pacific line and I-80.