CULTURAL RESOURCE INVESTIGATIONS: HAULWAY FROM EFN MILL SITE TO PLATEAU RESOURCES STOCKPILE, SAN JUAN COUNTY, UTAH

Prepared for Energy Fuels Nuclear, Inc.

by

Plano Archaeological Consultants

Larry D. Agenbroad 1980

LIST OF FIGURES

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Table 1: Sites encountered, not on EFN Maps.

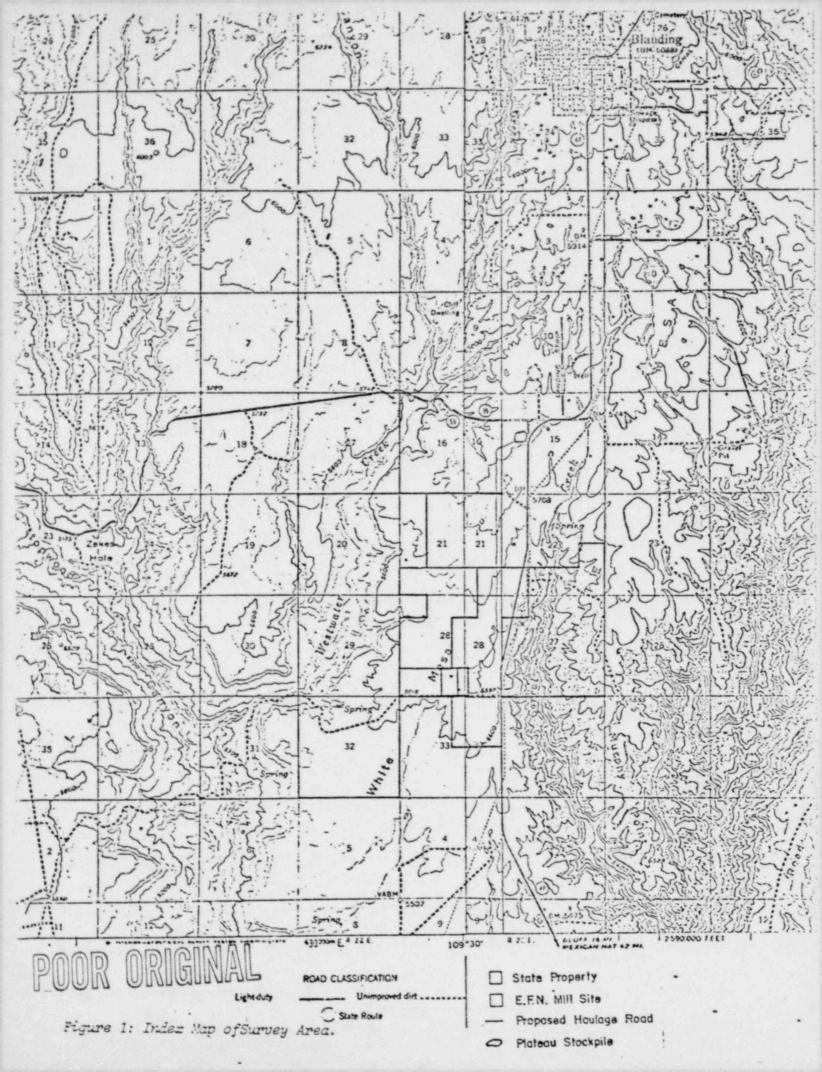
ABSTRACT: On September 12, 13, 1980 Dr. Larry Agenbroad conducted an intensive cultural resource survey of the alignment for an ore haulway in sections 16, 21, 28 of township 37S, R22E, San Juan County, Utah. In compliance with the Memorandum of Agreement of 5/1/79 with the Nuclear Regulatory Commission, the haulway was routed to provide a least 100 feet of clearance from prehistoric sites. It is recommended that the project proceed without further cultural resource work.

INTRODUCTION

On September 12 and 13, at the request of Energy Fuels Nuclear, Inc., Blanding, Utah, a cultural resource survey was conducted in sections 16, 21, and 28 of Township 37S, Range 22E, San Juan County, Utah. The alignment for an ore haulway from a Plateau Resources stockpile in the NW4, of section 15 to the SE4 of section 28 was surveyed, with a clearance corridor of at least 100 feet on each side of the haulway.

RECORDS SEARCH AND PRIOR SURVEYS

The route was realigned, to prevent impact with several known sites, and new locations made during the survey. The property involved belongs to Energy Fuels Nuclear, Inc., several private property owners, and the state of Utah (Sec. 16). Published data was consulted (references cited) plus maps were made available by Energy Fuels Nuclear. Previous contact had been made with the landowners, and Mr. Wilcox of the Utah Department of Land. Phone contact prior to the survey attempted with the Utah State Historic Preservations Officer's office in Salt Lake City, however, those persons were attending a professional meeting. Phone contact with James Dykman, State Preservation Archaeologist was made on 9/5, and attempted on 9/22, and 9/23/80 in an effort to get the available survey data on section 16, belonging to the State of Utah. I have included a smaller scale map of section 16, locating the sites (with field numbers) encountered in the haul road survey. The final alignment was routed to be more than 100 feet from any site.



METHODOLOGY

Dean Roberts and Lynn Laws, of Energy Fuels Nuclear accompanied the investigator, during the entire survey. Route changes and reallignments were made, in the field, by consultation with these personnel to avoid impact on known sites, and on sites discovered during the survey. Both sides of centerline of the haul way were surveyed, for a distance of approximately two hundred feet, each side of centerline, on foot.

The proposed and final alignments for the haul road are indicated on the index map and strip maps for sections 21 and 28, T37S, R22E.

No detailed data for section 16, T37S, R22E was available during the field survey. The proposed route would impact sites (#6, 7, 8) encountered during the survey. A potential realignment would have encountered an additional site (#9). At that point, the route through sections 21 and 16 was realigned to provide non-impact potential for the haul road. A small site (#12) was located along an existing road in section 16, so the haul road was realigned to prevent impact.

No additional sites were encountered in the haul road corridor until the north-south line for section 15 was encountered. A pueblo ruin (#13) was avoided by running the road south of the site, into Plateau Resources property.

Field numbers, 1-13, were assigned to sites encountered in the survey which were not recorded on the large scale maps provided by Energy Fuels Nuclear. No large scale map was available for section 16. The final alignment and locations of sites encountered were located on a small scale map of that section.

Site density is high in the three sections involved. Since the purpose of the survey was to clear a haul road alignment and provide the impact clearance provided for in the Memorandum of Agreement (EFN-1979), no intensive survey was attempted outside a haul road corridor. The alignment of the haul way was re-routed, several times, to avoid site impact.

SUMMARY AND CONCLUSIONS

Although White Mesa is an area of high site density, prior surveys (Fike, et al., 1976; Lindsay, 1978, and Nielson, 1979) plus maps of the Archaeological Sites, White Mesa Uranium Project, Blanding, Utah (D'Appolonia-revised 3-31-80) were consulted to route the alignment in such manner as to provide more than the 100 foot minimum clearance, as stated in the Memorandum of Agreement (EFN/NRC, 1979). New sites were field numbered and briefly described (table 1) as well as located on large scale maps of sections 21, 28 and a smaller scale map of section 16. The route was adjusted to prevent impact with sites encountered in the field.

RECOMMENDATIONS

Since the final route alignment provides impact clearance as stated in the 1979 Memorandum of Agreement between Energy Fuels

Nuclear and the Nuclear Regulatory Commission, I recommend clearance for this haul road corridor.

Table 1

Sites encountered in Haul Road for EFN Survey, Sec. 16, 21, 28 T37S, R22E, San Juan County, Utah

- Site #1

 (sheet 2/3)

 Located approximately 150 feet north and downslope of #6443.

 It consists of a small concentration of stone and fire cracked rock. It may reflect a structure site avoided by routing haulway to the west.

 Site #2

 (figure 2)

 Located approximately 500 feet west of fence corner, approximately 1000 feet east of #6445. It consists of a larger surface scatter of stone, ground stone, lithic waste and black and white and corrugated ceramics. A large depression suggests a pit structure. The site was avoided by routing
- Site #3

 (sheet 4)

 Located on a ridge near the center of section 21, approximately 600 feet north of fence intersection. Lithic waste and ceramic scatter.

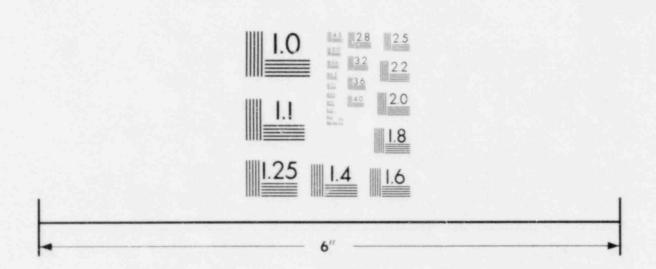
the haulway near the fence line, east of the site.

- Site #4 Approximately 200 feet southeast of site #3; fire cracked (sheet 4) rocks and lithic waste on a low ridge in cleared land.
- Site #5 Approximately 500 feet northeast of #4, 700 feet east of (sheet 4) #3; ceramic scatter and ground stone in cleared land.
- Site #6 Approximately 300 feet northwest of southeast corner Section (figure 4) 16; in the edge of chained ground/juniper forest. Ground stone and corrugated ceramic scatter on flank of ridge rising to the northwest.
- Site #7 Located approximately 300 feet west of the east fence line of Section 16 at & corner, southeast quadrant. At the edge of chained ground; black on white and black on red ceramics, lithic waste flakes and ground stone scatter.
- Site #8

 Approximately 200 feet northeast of #7 just west of ½ corner on east line of Section 16, in chained ground. Ground stone, lithic waste and Chapin Grey ceramic scatter.
- Site #9
 Pueblo ruin at top of knoll at approximate center of southeast
 (figure 4) Section 16. Walled enclosure with room blocks on north
 Nall. Ceramic and lithic scatter.
- Site #10 Burned rock concentration on trail road just south of Section (sheet 5) 16 fence line. Lithic waste flakes.
- Site #11 Low ridge top concentration (south of #10) of ground stone, (figure 2) lithic waste, scattered corrugated and black on white ceramics.
- Site #12 Stone alignment and concentration suggestive of small pueblo (figure 4) structure just east of trail road in Section 16.

1.0 1.1 1.25 1.4 1.8

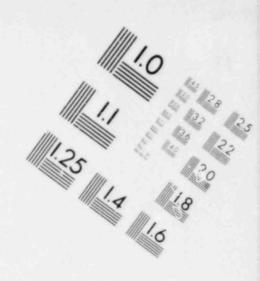
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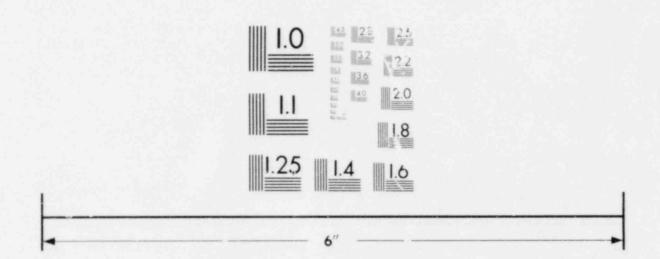


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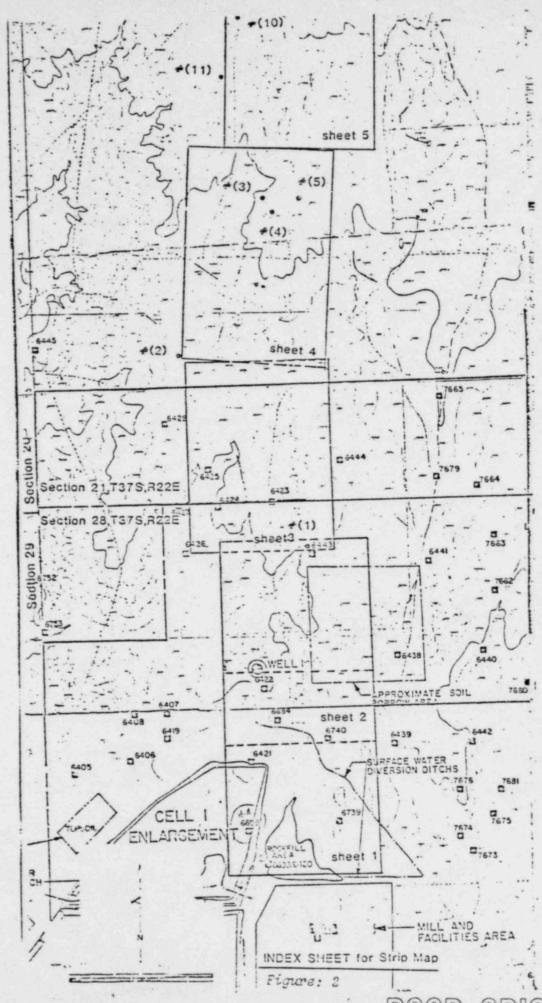
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MICROCOPY RESOLUTION TEST CHART

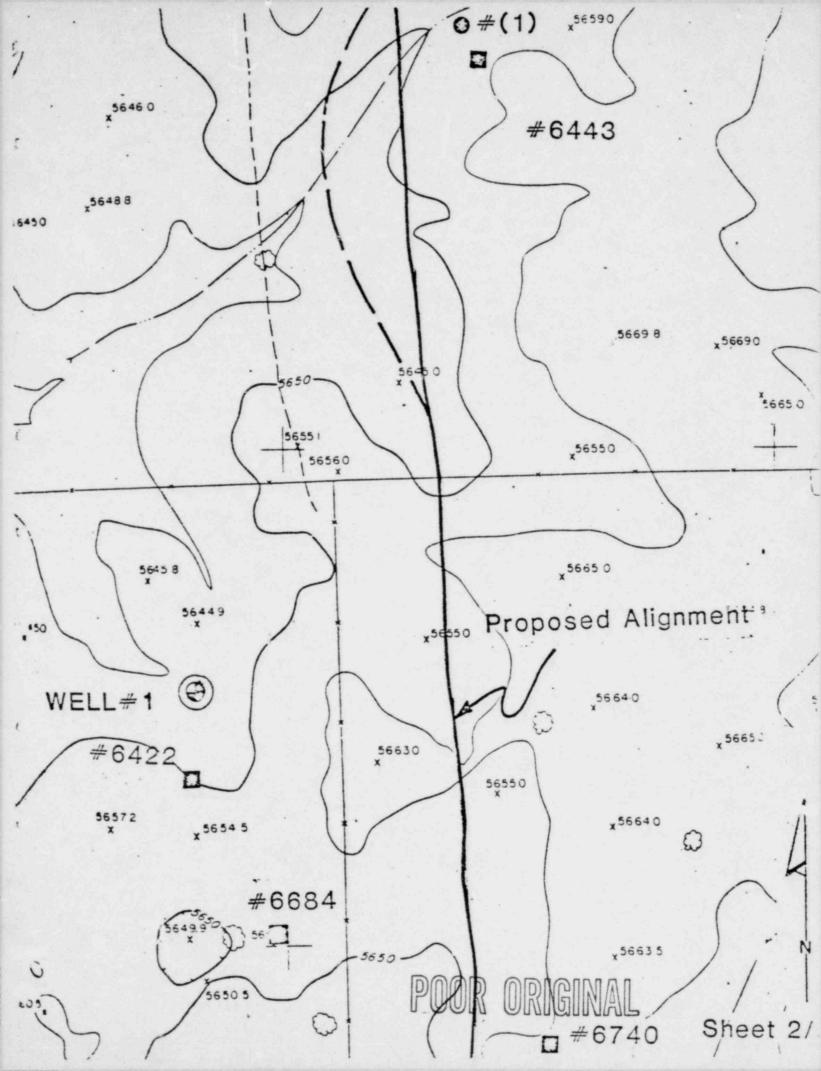
Site #13 Pueblo ruin near east line in northeast % Section 16. Large (figure 4) ruin mound with lithic and ceramic scatter.

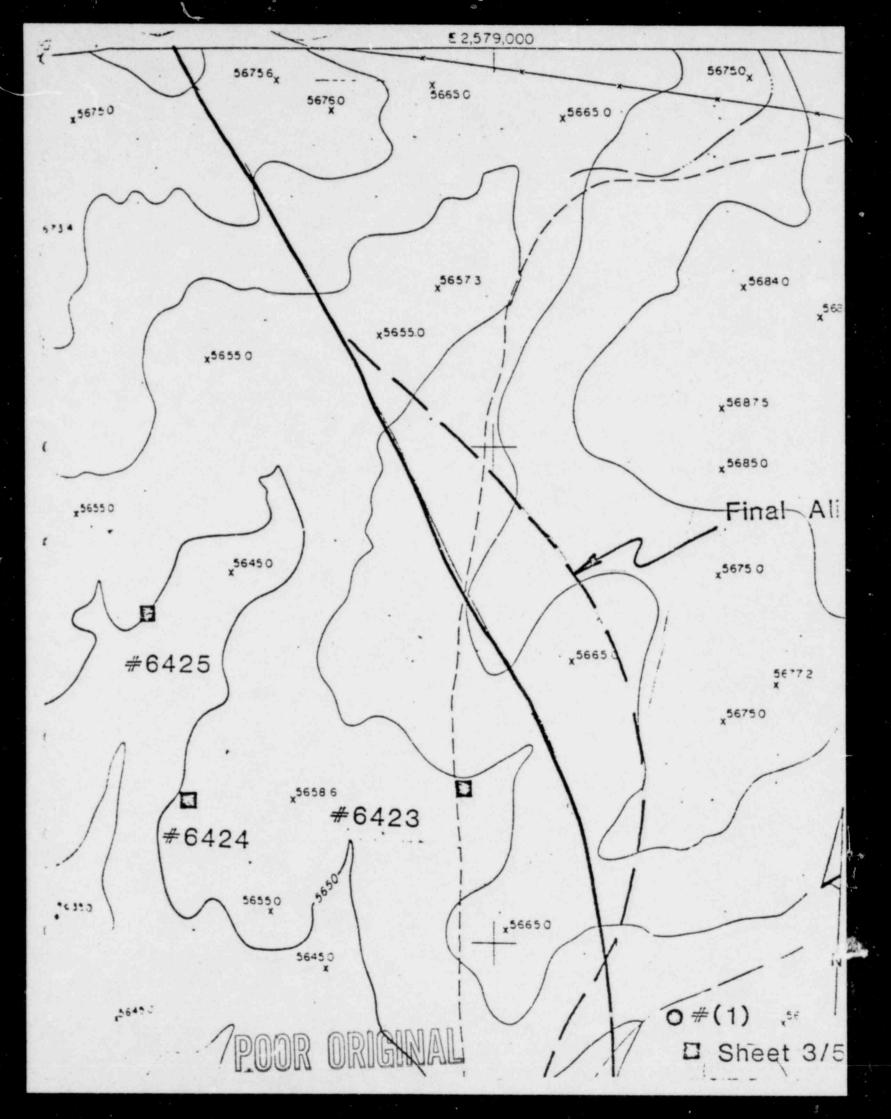


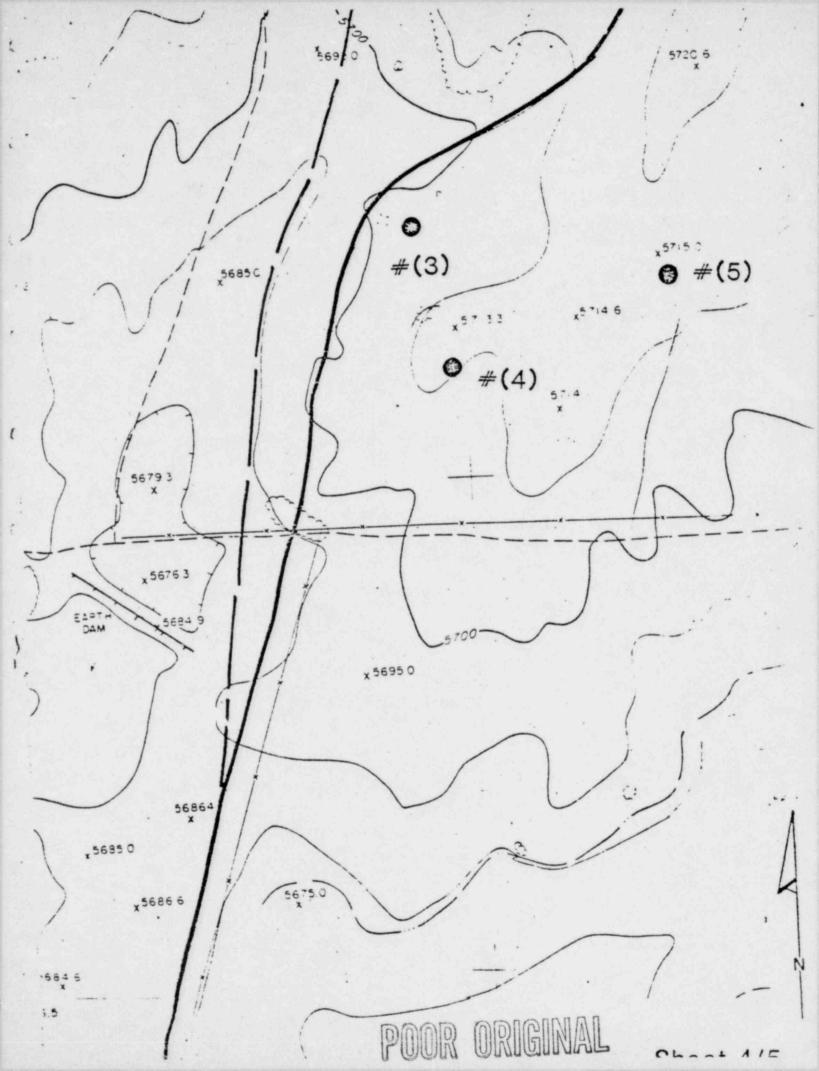
POOR ORIGINAL

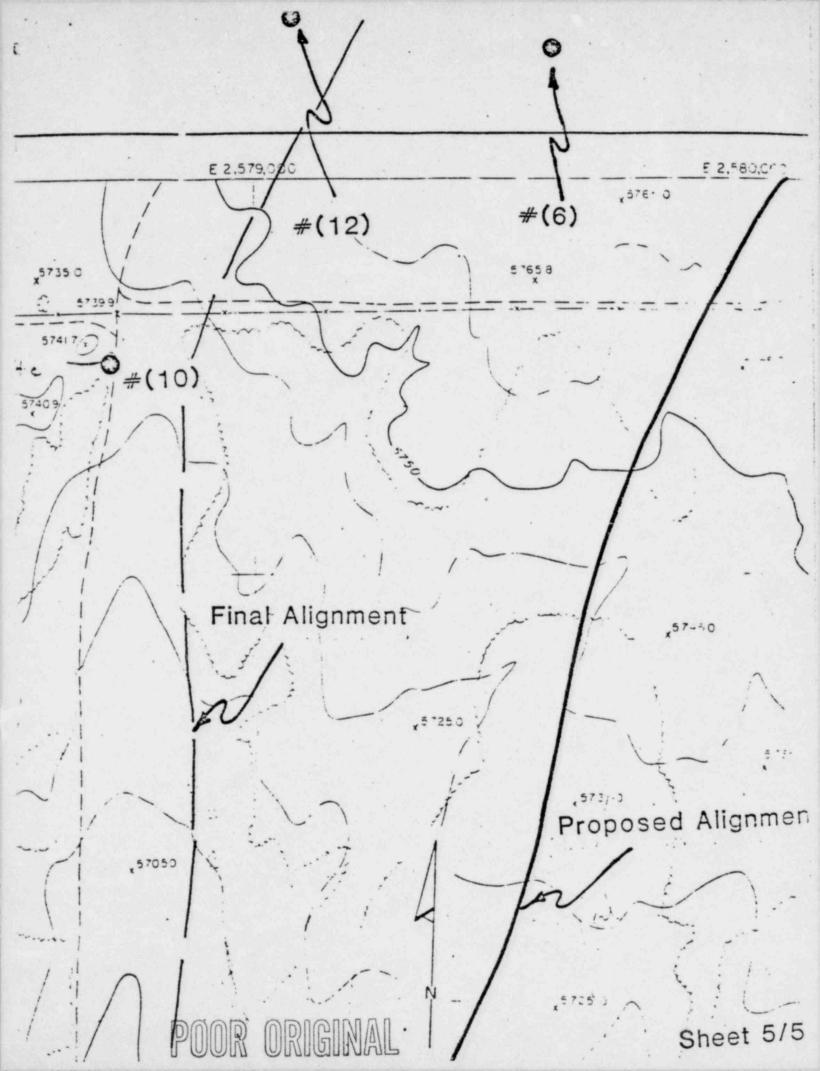
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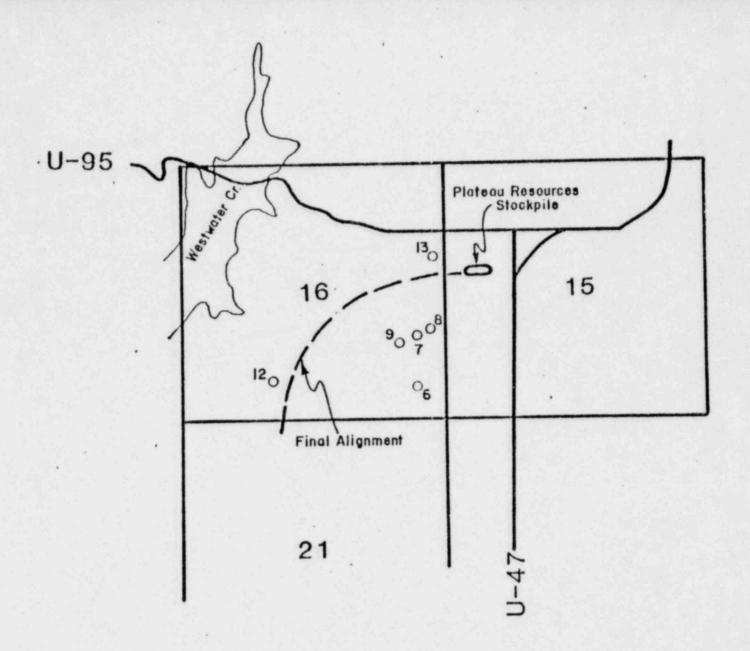
STRIP MAP LEGEND











Section 16 T37S,R22E

Figure: 4 EFN Haul Road Survey

REFERENCES

D'Appolonia

1978 Archaeological Sites: White Mesa Uranium Project, Blanding, Utah. Map on File, Energy Fuels Nuclear, Inc., Denver, Colorado.

Fike

Archaeological Survey of the Bluff Bench/San Juan River and White Mesa Areas, San Juan County, Utah. 1973-1974.

Antiquities Section Selected Papers, Vol. III, No. 9, Salt Lake City.

Lindsay, L. W., J. L. Dykman, A. S. N. Nielson, and K. Sargent

1978 Archaeological Test Excavations on White Mesa, San Juan County, Southeastern Utah, Manuscript on File, Antiquities Section, Division of State History, State of Utah. Salt Lake City.

Nielson, A. S.

1979 Additional Archaeological Test Excavations and Inventory on White Mesa, San Juan County, Southeastern Utah. Manuscript on File, Antiquities Section, Division of State History, State of Utah. Salt Lake City.

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