

PERMIT REPORT ON THE 1980 ARCHAEOLOGICAL SURVEY ALONG THE NWA PIPELINE FROM DELTA JUNCTION TO PRUDHOE BAY

by

Jean S. Aigner & B. Gannon

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PERMIT* REPORT ON THE 1980 ARCHAEOLOGICAL SURVEY ALONG THE NORTHWEST ALASKAN PIPELINE COMPANY NATURAL GAS PIPELINE, FROM DELTA JUNCTION TO PRUDHOE BAY**

Submitted to Fluor Northwest, Inc. for transmittal to:

Heritage Conservation Recreational Service Bureau of Land Management State Historic Preservation Office Bureau of Indian Affairs U.S. Fish and Wildlife Service Advisory Commission on Historic Preservation Office of the Federal Inspector State Pipeline Coordinator

By: Jean S. Aigner, Principal Investigator Brian L. Gannon, Research Associate Anthropology Program & Institute of Arctic Biology' University of Alaska, Fairbanks November 30, 1980

*With additional work between Delta Junction and the Canadian border. **Alaska archaeology permit 80-3, State MLUP/NC 80-18, Federal TUP F-65185 (BLM), and HCRS (antiquities) permit 79-AK-137 (BLM F-37488).

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TABLE OF CONTENTS

ABSTRACT	1
SCOPE OF WORK	4
SURVEY METHODOLOGY	7
THEORETICAL PERSPECTIVES EMPLOYED IN ARCHAEOLOGICAL ASSESSMENTS	
WORK COMPLETED	
1980 SURVEY RESULTS AND RECOMMENDATIONS .	· · · · · · · · · · · · · · · · · 19
REFERENCES CITED	
4: Summary of Monitored Backhoe 5: Field Personnel	
0	

LIST OF TABLES

Table 1.	Summary of Assessments & Recommendations	-
	for 74 Cultural Resources & Finds	3
Table 2.	Summary of 1980 Survey Results	03

1

LIST OF FIGURES

*

4

,

.

.

ABSTRACT

Background

From June 28 to August 29, 1980, an on-the-ground archaeological survey from Delta Junction to Prudhoe Bay was undertaken by the University of Alaska, Fairbanks. The work was mandated by the National Historic Preservation Act of 1966 (PL. 89-665), the National Environmental Policy Act of 1969 (PL. 91-190), the Advisory Council's Procedures for the Protection of Historic and Cultural Properties (36 CFR 800), Federal Executive Order 11593, PL. 93-291 (the Moss-Bennett Act of 1974) and the Alaska Historic Preservation Act of 1975.

Research was conducted under the sponsorship of Northwest Alaskan Pipeline (NWA) Company (Master Agreement A78-065) acting through Fluor Norhtwest, Inc. (Contract No. 478085-9-K050), Work Order No. 8 and amendments. Work was undertaken with Alaska field archaeology permit 80-3, state multiple land use permit (MLUP)/NC 80-18, federal temporary use permit (TUP) F-65185 (Bureau of Land Management case file), and Heritage Conservation Recreational Service antiquities permit 79-AK-137, BLM case file F-37488. Principal investigator responsible for the work and in charge is Dr. Jean S. Aigner, Anthropology Program and Institute of Arctic Biology, University of Alaska, Fairbanks.

This permit report complies with stipulations in the several permits under which the work was conducted. It is submitted to the following pertinent state and federal agencies and representatives: Heritage Conservation Recreation Service (HCRS), Bureau of Land Management (BLM - state and district offices in Alaska), State Historic Preservation Office (SHPO - Alaska), Bureau of Indian Affairs (BIA), U.S. Fish and Wildlife Service, Advisory Council on Historic Preservation and Office of the Federal Inspector.

Work Undertaken

Work completed includes the survey of 227.1 miles of NWA (proposed) project corridor (discontinuous segments), five borehole localities and their accesses, five trench stability plots and their access, and 4009 acres on 72 exploratory material sites (EMS's). In addition, visual inspection or aerial photographic examination of an additional 67 EMS's was undertaken. Four crews of five-six archaeologists and two backhoe monitors completed the field work between June 28 and August 29, 1980.

One hundred percent coverage of foot surveyed centerline and EMS's was completed with an average intensity of 40 worker days per square mile. Intensity was 33 on centerline, primarily in tundra areas, and 50 on EMS's, largely in tundra. Intensity in forested areas in previous years was 43-46 worker days per square mile. Systematic shovel clearing of vegetation and more intensive probing (shovel clearing, testing) in high probability areas was part of the field methodology.

Cultural Resources Identified

Some 74 potential cultural resources were identified during the course of the field season. These include 38 newly identified cultural resources, two of which are less than 50 years old, eight finds with dubious or no context, 25 previously reported archaeological sites and several other loci with modern materials (one) or of unknown status (two). Each of the potential cultural resources was assessed in terms of eligibility for nomination to the National Register, based upon potential for revealing pertinent scientific information, historic importance and other established criteria.* Based upon this assessment and the potential for adverse impact, as a result of proposed construction and operational activities, recommendations for mitigation are provided to the sponsor.

Recommendations

Proposed construction activities (as of November 1980) will <u>directly</u> impact 48 of the new and previously reported cultural resources as these lie directly on the NWA route, its proposed EMS's and other ancillary localities. Of these, 20 resources appear to have significant scientific information associated with them and therefore are deemed potentially eligible for nomination to the National Register of Historic Places. It is our recommendation that these resources be mitigated by avoidance or scientific excavation (see individual discussions and Table 1).

A number (nine) of the potential resources identified are directly impacted but are not considered to contain sufficient information potential to warrant nomination to the National Register. Nonetheless, it is recommended that salvage of these (remaining) archaeological materials be undertaken prior to commencement of construction activities (see Table 1).

Indirect impacts will affect 15 cultural resources. In eight cases we recommend that the sponsor take responsibility for mitigation consisting of: preserving (fencing, posting), backfilling (to lessen erosion), and education of personnel regarding cultural resource management (see Table 1).

During the field operations in 1980, several cultural resources identified or visited did not produce sufficient information for an assessment of potential Register eligibility. In these six cases, additional testing in 1981 is recommended. In addition, further testing is recommended for these find areas (see Table 1).

^{*}Criteria and draft revisions "to quide the States, Federal agencies, and the Secretary of the Interior in evaluating potential entries...for the National Register." 36 CFR part 60, 1976 Draft Revisions (see King et al. 1977:235 ff.).

Cultural Resources	Judged Register eligible because of potential in- formation or historic impu REC: Avoid or Preserve/Exc		Not Register quality but contains useful information REC: Avoid or Salvage	Insufficient data to assess REC: Avoid or Test/Assess	Not Register eligible REC: No Action No	Action (Mod
DIRECTLY IMPACTED: 1) Newly Reported Sites 2) Known Sites	3 J 0	11 6	4 5	6 1	· 1 9'	2 0
TOTAL 48						
NDIRECTLY IMPACTED:* 1) Newly Reported Sites 2) Known Sites	REC: Avoid/Maintain O 1		REC: Avoid/Stabilize 1 1	REC: Avoid/Protect 6 0	REC: Avoid (No Action) 4 2	
TOTAL 15						
EW FINDS IRECTLY IMPACTED:	Insufficient Data to Asses REC: Avoid/Test/Asses 3	55	Not Register Eligible No Action Modern 5 1	Non-Cultural		
TOTAL 11						

Table 1. Summary of Assessments and Recommendations for 74 Cultural Resources and Finds

*See individual discussion for assessment.

SCOPE OF WORK

Introduction

Archaeological survey was conducted from June 28 to August 29, 1980, by crews from the University of Alaska along Northwest Alaskan Pipeline Company's (NWA's) proposed alignment and ancillary locations from Prudhoe Bay to the Yukon Border. The work was executed under contract between the University of Alaska (IAB 78-42), Jean S. Aigner, Principal Investigator, and the Northwest Alaskan Pipeline Company (Master Agreement A78-065) acting through Fluor Northwest, Inc. (Contract No. 478085-9-K050). The research was undertaken in accordance with Alaska field archaeology permit 80-3, state multiple land use permit NC 80-18, federal temporary use permit F-65185 (Bureau of Land Management), and Heritage Conservation Resources Service antiquities permit 79-AK-137 (BLM F-37488).

Prior to the field season extensive literature reviews were conducted, producing an extensive inventory and analysis of known cultural resources in the general study area. Results are presented in Historic and Prehistoric Land Use in the Upper Tanana Valley (Shinkwin and Aigner 1979), Historic and Prehistoric Land Use in the Upper Tanana Valley II (supplement, Aigner 1979), and for the northern segments which figure prominently in the present report, Historic and Prehistoric Land Use in Interior Alaska (Aigner and Gannon 1980).

Objectives of the Present Study

The field research was undertaken with several basic premises. It is critical for contract archaeology to gather and analyze data in order to contribute substantively and methodologically/theoretically to anthropological knowledge. At the same time, the area of survey for cultural resources is defined by management needs of the sponsor in order to comply with federal and state stipulations. The concerns of the sponsor are mandated by the National Historic Preservation Act of 1966 (NHPA, PL. 89-665), the National Environmental Policy Act of 1969 (NEPA, PL. 91-190), the Advisory Council's Procedures for the Protection of Historic and Cultural Properties (36 CFR 800), Executive Order 11593 (1971), the Archaeological and Historic Preservation Act of 1974 (Moss-Bennett bill, PL. 93-291), and the Alaska Historic Preservation Act of 1975. It is the premise of our work that the needs of the sponsor and professional responsibility to the interests of the discipline can both be met. Towards this end, a research framework which sees cultural resources in terms of land use models with a wider study area (than the corridor defined by the sponsor) is employed in data gathering and analysis. For a discussion see Shinkwin and Aigner 1979, Aigner 1979, and Aigner and Gannon 1980.

It should also be reiterated that the use of local informants is considered basic to the success of the project. Preparation of the background reports has utilized these sources in order to augment as well as to add to archaeological and traditional historic data. Key to the background study in preparation for the 1980 fieldwork were the many recent land use studies sponsored by various native groups, corporations, and state governments. These have been especially important in understanding native (and non-native) patterns of land use, community location, and organization for economic pursuits in the recent and distant past (Aigner and Gannon 1980).

Nature of the 1980 Work

The 1980 field work consisted of both intensive on-the-ground survey of selected portions of the proposed route between Prudhoe Bay and the Yukon Border, and of visual survey. Intensive survey was to be performed on centerline segments of the proposed NWA route, a centerline borehole location and its over-land access, selected exploration material sites (EMS's) and accesses, and the locations of backhoe trenches in selected EMS's and their over-land access routes. Visual inspection was performed on certain EMS sites. Clearance (or non-clearance) for <u>construction</u> was provided for the intensively surveyed alignment segments and EMS's (and for certain added localities described below). Clearance (or non-clearance) for backhoe <u>trenches</u> only, for borehole <u>drilling</u> only or for EMS <u>sampling</u> and drilling only was provided in those other cases.

Work Order No. 8 from Northwest Alaskan Pipeline Company, acting through Fluor Northwest, Inc. originally outlined work consisting of survey along 231 miles of centerline in discontinuous segments, one borehole location (and access) covering an area 260 x 200 feet (plus 30' access), and 67 EMS's totalling approximately 3,959 acres, and field monitoring of 28 EMS's during backhoe trenching activities. In addition there were 64 proposed EMS's designated for visual examination.

Programmatic changes occurred during the course of the field season. Except for a series of EMS's south of Livengood (to the border) all were accommodated within existing W.O. No: 8 (the southern work was handled as an amendment). Changes included the addition of 26 EMS's (and 79 trenches) requiring backhoe monitoring (constituting the only work carried out south of Delta Junction), additions and deletions from the remainder of the backhoe program resulting in a total of 58 (rather than 28) EMS's (and 223 trenches) requiring backhoe monitoring, the addition of five trench stability and four borehole sites (103.3 acres) needing on-the-ground survey, changes in the EMS survey including the deletion of some EMS's (and acres) and the addition of other EMS's (and acres) for a total of 4009 acres surveyed, and changes in the centerline survey segments resulting in 0.4 miles of (completed) additions for a total of 227.1 miles. Changes in the EMS survey schedule included deletions of inaccessible sites and sites in active stream channels. Appendices 1, 2, 3 and 4 detail the work completed during the 1980 field season reported herein.

Survey Methodology Outlined by the Sponsor

Work Order No. 8 calls for visual or cursory survey of selected EMS's, meaning examining the topographic location of the EMS and clearing those in active stream channels or which are heavily disturbed and have low/no probability of historic and prehistoric cultural resources. In cases where the potential for cultural resources exists, clearance is not provided.

Intensive survey (EMS's, centerline, etc.) calls for on-the-ground examination. One hundred percent coverage is required, with periodic clearing and shovel testing to implement observation and evaluation. Limited test excavations, meaning more extensive shovel testing, is to be undertaken on cultural resources in order to determine vertical and horizontal extent. This is to gather the information necessary for an evaluation of significance, based upon the criteria of eligibility for nomination to the National Register of Historic Places (set forth in 36 CFR 800.10). Resources are to be classified as eligible for nomination, ineligible or needing additional data for a determination of eligibility. Resources are to be related to the larger cultural-historical context. Project impact is also to be assessed.

In order to comply with the scope of Work Order No. 8 the field survey methodology and operationalization of concepts (site, impact, significance, mitigation) provided below structured our research operations.

SURVEY METHODOLOGY

The summer 1980 NWA archaeological survey was accomplished by four field crews, each comprising (basically) five persons, including a crew chief. This search for cultural resources occurred in three principal modes: 1) intensive (100%) systematic coverage of selected potential exploratory material sites (EMS's); 2) visual inspection of certain material sites in marginal environments and with anticipated negligible cultural resource potential; and 3) intensive (100%) coverage of selected segments of proposed NWA gasline corridor.

Survey methodology was consistent with that employed in previous seasons but modified on the basis of past experience in order to ensure maximum results. Variables dictating these modifications comprised general terrain character, geomorphic features, stratigraphic units, potential subsistence/commercial resource availability and the knowledge of historic and prehistoric land use gleaned through an extensive review of the literature (Aigner and Gannon 1980). The aspect of the survey which varied most in response to these environmental variables was intensity of shovel testing and surface clearing.

The work order for 1980, as in prior years, called for periodic clearing of the ground surface possessing any appreciable 'vegetative mat. Previous surveys where surface clearing has been conducted have resulted in marked increases in located cultural resources. During the 1980 field season a systematic program of clearing/testing involved removing the vegetative mat (typically 1 ft²), probing several inches to a foot (or more when warranted by circumstances), examining the mat and soil for anomolies (e.g., charcoal, flakes, bone), noting soil characteristics, refilling the hole and replacing the mat. No fewer than three persons were engaged in this activity in areas with considered moderate and high cultural resource potential. The remaining crew members simultaneously scanned the immediate vicinity for surficial anomolies (e.g., structures). Between surface tests, tasks consisted of navigating, visual examination of the ground surface and vicinity and note keeping. In addition to documenting cultural resources, notes were taken regarding such items as the amount of standing water, terrain, and flora and fauna. All crew members maintained independent notes. Despite the fact that 'environment' guided such testing, test pitting and surface clearing was conducted in certain considered low potential areas in order to gauge the efficacy of the technique and allow for better evaluation of survey results.

All cultural resources encountered during the 1980 field survey, and evidence of modern activity as well, were thoroughly photographed, mapped and described in notes and on pre-printed forms. This approach applied to sites formerly worked by Alyeska archaeologists as well. In the case of historic and prehistoric sites, subsurface testing delimited the extent of the activity area within constraints of time, and aimed to provide data adequate for assessment of eligibility for nomination to the National Register.

EMS Survey

For exploratory material sites requiring intensive coverage, transects were made with an average spacing of 60 feet between surveyors. In most cases each EMS was surveyed by way of a compass-oriented rectilinear grid system superimposed on the locality, using maps prepared by Michael Baker as a base. This allowed for controlled 100% coverage of each EMS and its periphery as well. This method was adopted in 1979 as it was found easier to follow compass bearings on large or heavily forested EMS's rather than follow the commonly irregular or unmarked boundaries.

A particular EMS would be entered at and along a specific bearing (using Brunton-style compasses) with appropriate spacing of crew members. Passes and turns were then made within the EMS using the 'pace and compass' technique. Paced distances were incremented normally at 100 foot intervals with pacing determined by from one to all crew members, depending on the crew chief's decision. At each 100 foot interval surface testing was conducted. A variation on the pacing and testing routine was employed by some crews and consisted of pacing the specified distance, dropping a marker, then wandering back over the area previously covered up to the last station, testing at the individual's discretion. This technique was advantageous by maintaining navigation control yet allowing each crew member to be more attentive to the surroundings rather than preoccupied with pace counting. Variations also occurred on some large EMS's which were not amenable to gridding by surveying in a spiral manner. In high potential areas, surface testing was catagorically done at less than 100 foot intervals and commonly left to individual discretion (testing at will). In all cases, bedrock exposures, rodent burrow throwout, frost boils, channel banks, uprooted tree root balls and other areas void of vegetation were examined.

Those EMS's requiring visual inspection were approached on foot as closely as possible, but many would have required helicopter support to actually reach them. Each such EMS was visually scanned by all crew members with the aid of binoculars. In many of these cases, distance, large size of the EMS and frequent inclement weather precluded more than just a fraction of the site from being directly observed. The unobserved portions have subsequently been evaluated with the aid of low altitude (1:24,000) color aerial photographs. All the EMS's specified for visual examination are in geologically active areas such as river channels and modern floodplains, and are considered to have little or no cultural resource potential. The primary intent of this survey mode was to verify their topographic and geologic setting.

Alignment Segments

The bulk of scheduled proposed alignment segments surveyed were adjacent to the Alyeska oil pipeline or the Prudhoe Bay Haul Road, thereby facilitating navigation. Those segments passing 'overland' or adjacent to the Alyeska pipeline were surveyed by transects 500 feet wide, and segments adjacent to the Haul Road by transects 150 feet wide. Spacing between crew members (five) averaged 30 feet on 150 foot transects and 100 feet on the 500 foot transects. Shovel testing and surface clearing was normally conducted at 100 or 150 foot increments, more rarely at 200 foot increments, or less than 100 feet when cultural resource potential was considered high. In other aspects, survey methodology and documentation was comparable with that employed on the material sites. In both cases, certain settings known to have a higher potential for harboring archaeological materials (e.g., promontories and river confluences) were examined more intensively. For the northern (tundra) segments, five miles of alignment per day per crew was found to be the practical maximum to achieve thorough examination of those segments with even moderate potential. This does not include the time required to document any more than minimal cultural resources. It was found that surveying more than five miles of tundra terrain per day severely impaired the alacrity of most crew members.

Trench Stability Plots and Borehole Locations

Both of these categories of location, akin to small EMS's, were surveyed in the mode described for exploration material sites.

Backhoe Monitoring

The flagged access into the proposed backhoe test site was walked by the archaeologist before the CAT was driven through the area. A visual, surface clearance was given for fifteen feet on either side of the flagged access. At each proposed backhoe test site a twenty-five foot radius was also surveyed for any visual indication of archaeological remains. If none were encountered the backhoe then proceeded to excavate the trench. The operator initially removed only the sod and the first couple of inches of the soil for close examination by the archaeologist. The sod was thoroughly checked for any archaeological remains. The archaeologist then monitored the excavation for any archaeological evidence and for changes in soil deposition. If the CAT was exiting along its path of entry (and no clearance was therefore necessary), then the archaeologist followed behind the CAT checking for any archaeological remain's in the areas disturbed by the CAT's tracks.

THEORETICAL PERSPECTIVES EMPLOYED IN ARCHAEOLOGICAL ASSESSMENTS*

The present report relates the available information on cultural resources identified within the confines of the alignment and exploratory material sites surveyed in 1980. From the available information an assessment of National Register eligibility for identified sites is made. Potential impacts resulting from the effects of planning, construction and operational stages of the project upon these resources are also assessed.

The theoretical perspectives which apply, that is, the philosophy regarding cultural resources, their identification and management, must be explicated. This chapter aims to provide the background necessary to understanding the assessments of impact, significance, Register eligibility and viable mitigation alternatives which are made - in short, the application of the theoretical perspectives to the cultural resources identified and predicted in the immediate project area.

Site Definition

The basic definition of a site used in this project for purposes of reporting to the state is "a locality with any evidence of past human activity" (Shinkwin and Aigner 1979:90). Thus, a site may be found in primary or in secondary deposits; it may consist of a feature without artifacts or of a cluster of artifacts alone. Operational problems arise in the field with such a general site definition. Indeed, during the 1979 field survey we identified one locality which consisted of a depression with a (probable) hearth and one find of an obsidian artifact in a recent and disturbed context.

During the past several years archaeologists have come to rethink the concept of "site" and some have introduced "non-site" as a unit of consideration, particularly in the context of site survey (c.f. Shinkwin and Aigner 1979:90-91). The profession continues to deal with the question of decision making in the field concerning site status. There has been a general bias for workers toward the identification and favoring of large "sites," often defined in terms of artifact density and multiple loci of past human activity. Such a preoccupation excludes many manifestations of less spectacular land use by non-sedentary populations who traditionally occupied the interior of Alaska. Rather than leaving large locations with definable limits and multiple definable activity loci, interior peoples have left scanty evidence which is often widely scattered. They are not "sites" in the sense traditionally used in archaeology.

Plog et al. (1979) note that professionals working in areas of this kind, where humans leave a diffuse trail of past activities for us to follow, are increasingly cognizant of the value of loci of cultural material which are both sparse and diffuse (i.e. "non-sites"). Furthermore, they argue for the retention of both the concept of "site" and of "non-site" (p. 388).

*From Aigner 1979 with minor changes.

In this project the site concept has been operationalized for analytical purposes as a discrete and potentially interpretable locus of cultural materials. Following Plog et al. (1979) <u>discrete</u> means spatially bounded with those boundaries marked by at least relative changes in artifact densities. <u>Interpretable</u> means materials of sufficient quality and/or quantity to permit behavioral inferences. <u>Cultural materials</u> include artifacts, ecofacts and features. The non-site is potentially interpretable but it is a diffuse, rather than a spatially discrete locus of cultural materials.

For purposes of analysis, given the research framework which emphasizes human adaptation and land use, the depression which a hearth was reported to the state as a site (because it is a locus of past human activity; because it is discrete, interpretable, and the locus of a feature). The isolated obsidian artifact which may be redeposited in a recent context was not reported to the state as a site and is not considered as an analytic unit in this analysis (it is not a non-site). Its presence was noted; further testing was done but the artifact could not be associated with evidence of past human activity or a discrete locus of activity in the area from which it may derive.

<u>Summary</u>. A site is defined as a locality (spatially bounded and discrete) with evidence (artifacts, ecofacts, features) of past human activity (interpretable in terms of behavioral inferences). Such loci are considered sites for purposes of analysis and for purposes of reporting to the state. Non-sites are potentially interpretable but are spatially diffuse loci of cultural material. Although not reported to the state as sites, such loci are recorded and used for analytical purposes. Isolated artifacts lacking context (uninterpretable) are recorded but do not constitute analytical units for purposes of this research report.

Determining Effects and Impacts

Information about impacts is extremely important for management purposes. Responsible proposals for mitigation rest upon the reliable predictions of <u>impacts</u>. Impacts may be direct or indirect: "Direct impacts occur from the immediate physical consequences of a project's planning, construction, or use, while indirect impacts are those that are not directly caused by the project's activities but that would not occur otherwise" (Schiffer and Gumerman 1977:291; also see McGimsey and Davis 1977:111; Lipe and Lindsay 1974). It is not the concern of this report to draw a strict distinction between direct and indirect impact. Due to advisory regulations, because an impact as indirect does not relieve the sponsor of developing a viable mitigation plan.

Assessment of impacts is predicated upon evidence which indicates that damage to the archaeological resource base can "reasonably be predicted as a result of some activity or process set in motion or accelerated by the land modification project being considered" (Schiffer and Gumerman 1977: 291-292). In order to assess impacts, it is necessary to delineate the <u>effects</u> of all activities that occur during a project's planning, construction, and operation, to have knowledge of the nature and significance of the archaeological resources in the affected area, and to understand the relationships between the resources and expected effects.

Since it is agreed that archaeological clearance is required preparatory to engineering studies which may impinge upon archaeological resources (such as tree clearance, core drilling, track vehicles on the tundra), planning stage effects upon the archaeological resource base are being taken into account by project management. The analysis of effects may, therefore, be considered within the same framework as that occurring in the construction stage of the project.

Primary, secondary, and tertiary <u>effects</u> are recognized as potentially having adverse impacts on archaeological resources. Primary effects include obvious activities such as bulldozing, coring, digging, operation of track vehicles over the land surface, and removal of material from a borrow area. Secondary effects are associated with support activities such as construction of access roads, establishment of control centers, and the like. Both directly affect the cultural resource. Tertiary effects are not the direct result of construction or support activities; for example, artifact collecting by construction personnel would constitute a tertiary effect (Schiffer and Gumerman 1977:294). Primary, secondary, and tertiary effects also must be considered when the construction is completed and the operational phase of the pipeline is begun. Additional tertiary effects would include projectinduced changes in demography and land use, including opening the haul road to commercial traffic.

At this point, also in reference to tertiary effects, the position cited in Schiffer and Gumerman (1977:294) is stressed that "construction personnel <u>will vandalize archaeological sites</u> unless strong negative sanctions are maintained against such activities" (emphasis ours). Given the scope of the gasline project and length in miles of the work area, it is not believed likely that adequate measures are enforceable. In addition to construction personnel, support personnel and truckers supplying camps cannot be adequately monitored. Although the sponsor is aware of the potential problem of artifact collecting and has initiated steps to educate personnel in order to lessen the potential adverse impacts from tertiary effects, the position taken here is that such a program is to be recommended but it does not constitute a mitigation alternative.

Assessment of impacts and recommendations for mitigation require an evaluation of the significance of the endangered archaeological resource. This is somewhat apart from a determination of eligibility for the National Register. Register eligibility and significance are not strictly synonymous in the view of the contractor. "Adverse impacts to the archaeological resource base are not simply land disturbance or even modifications of cultural deposits; instead they are losses of values related to significance" (Schiffer and Gumerman 1977:299). <u>Summary</u>. Primary and secondary effects of project planning, construction and operation may have direct adverse impacts on archaeological resources. Tertiary effects may have indirect adverse impacts.

Significance

"The assessment of significance is central to archaeological research and management planning" (Moratto and Kelly 1979:1). Significance may be arrayed within a hierarchy of cultural phenomena (intrasite, site and intersite levels are commonly recognized). But it may be interpreted only in relation to a frame of reference. The types of significance commonly recognized include scientific, historical, ethnic, public and legal (Schiffer and Gumerman 1977:249-257; King, Hickman and Berg 1977:95-104; Moratto and Kelly 1979:1-24). A cultural resource is historically significant if it can be associated with a specific individual event or aspect of history.

Ethnic significance is associated with a cultural resource that has religious, mythological, spiritual or other symbolic importance to a group. As generally applied, the resource is a (conventional) cultural/archaeological one. Examples given by Moratto and Kelly (1979:11) are structures, settlements and other "cultural properties." Thus, in the forgoing context, the hill associated with an Athapaskan winter settlement (known from ethnographic studies) probably would not receive an evaluation of significance by most archaeologists, at least for purposes of Register eligibility. Nonetheless, "religious" significance to the native group is a consideration recently reiterated (R. Leicht, oral communication).

The assessment of scientific significance is based upon the potential of the site (or some aspect of the site, or the site within some larger context) to answer research questions. A resource has scientific or research significance if there is potential for establishing reliable facts and generalizations about the past. Thus, the resource may reveal data relevant to specific events and times, or may allow the testing of anthropological principles relating to long-term culture change and human adaptation, or may relate to theoretical concerns of the discipline, or may permit technical or methodological innovations. Determinations of Register eligibility are based upon considerations of significance.

In 1976 the Society for American Archaeology prepared an informational paper on determinations of eligibility to the National Register of Historic Places: "Any archaeological resource is potentially eligible if it can legitimately be argued that it is associated with a cultural pattern, process, or activity important to the history or prehistory of its locality, the United States, or humanity as a whole, provided its study can contribute to the understanding of that pattern, process, or activity" (Society for American Archaeology 1976:1). Furthermore, some properties which cannot be shown to be significant individually "may be eligible as segments of archaeological districts" (Society for American Archaeology 1976:1). Resources should be evaluated in relation to a regional or areal research design. It is not a priori acceptable to judge a small, surface site insignificant - it must be a decision made in light of the regional, cultural historical frameworks. At the same time, the Society suggests that "properties that have lost their integrity by being completely excavated or otherwise totally disturbed do not normally quality[sic], unless they are of particularly noteworthy historical significance for the data they have yielded" (Ibid., p. 1). They are not excluded a priori. A statement of significance must be based upon adequate data from and information about a site. "It is not sufficient to simply assert one's professional opinion that the property does or does not contain information important to history or prehistory" (Ibid., p. 3).

<u>Summary</u>. The significance of a cultural or archaeological resource is determined in light of its relationship to some framework. Significance may be historic, ethnic, public, legal or scientific. Scientific significance is a judgement, based upon the resource in light of a regional perspective of its research potential.

Mitigation

<u>Mitigation</u> is the alleviation of adverse impacts (McGimsey and Davis 1977:111; Schiffer and Gumerman 1977:321). Mitigation activities include <u>avoidance</u> and <u>preservation</u> of archaeological resources. The aim of conservation archaeology is to explore possible ways to preserve or avoid destruction of archaeological resources. This will depend upon the scope of the project, its current stage, and predicted impacts on and significance of the archaeological resource. However, as Schiffer and Gumerman note, when factors of significance and on-going destructive processes (including impacts) are considered, the conservation model becomes complicated. <u>Excavation</u> is a mitigation alternative which may be most viable in some cases.

It should be emphasized that care alone, or negative sanctions against off-road activities, do not protect sites. Active preservation of sites along the gasline is also another possible mitigative alternative. However, it should be noted that most arctic sites lack the materials which mark them for "public use" (through development of parks and the like). Stockpiling sites by burying them under fill, similarly, is sometimes recommended. In the arctic, however, burial under yards of gravel (to make sites inaccessible) will change the environment of the sites and thus the geomorphic processes affecting them. The potential impact of these newly created effects may be highly adverse in themselves. Altering the landscape may damage the integrity of the site.

Movement of the centerline to avoid impact of a known archaeological resource may result in greater site destruction than some other mitigation alternative. This is because impacts include those resulting from secondary and tertiary effects and because in avoiding one known site there is no guarantee that two new sites will not be potentially impacted. On the other hand, mitigation of a site by excavation will require not only money, but more important from a management consideration, time. The management decision must be based on a consideration of both the cost of moving the line (far more expensive than excavation) versus the time lost in construction along the preferred route while mitigation is carried out.

This brings us finally to excavation as an alternative. If and only if avoidance and active preservation alternatives cannot guarantee the integrity of the archaeological resource, then scientific archaeological excavation, that is, multistage research, problem oriented research design, rigorous sampling programs, multidisciplinary cooperation, rapid publication and wide dissemination of results, may be a viable alternative. Excavation is justifiable, however, only if it makes a solid research contribution: salvage work as formerly undertaken does not constitute a viable mitigation alternative. Thus, when we recommend multistage mitigative excavation, we propose exploratory testing, literature review, and the like first, then development of the research program which warrants intensive excavation.

Summary. Mitigation, whether by avoidance, preservation or excavation, aims to alleviate adverse impacts to cultural resources.

WORK COMPLETED

Four crews averaging 5-6 persons each completed the survey of 227.1 miles of centerline, 4009 acres on 72 EMS's, 5 boreholes and 5 trench stability plots totalling 103.3 acres between June 28 and August 12, 1980. Two backhoe monitors oversaw the excavation of 390 trenches on 84 EMS's between July 30 and August 29, 1980. The latter worked the same schedule as the backhoe program, namely ten hours per day, seven days per week, for a total of 27 field days. Survey crews averaged 5.5, 8-10 hour field days per week with a minimum of one day per week devoted to preparation of notes and maps, equipment maintenance, and housekeeping. Crew chiefs (Gannon, Fetter, Cannon, Leitgeb) worked slightly longer daily hours and took more responsibility for mapping, scheduling, decision making and the like. Visual inspection on 52 EMS's was made and areal photo inspection of 15 others completed during the field season.

Centerline Segments Completed

Some 227.1 miles of centerline segments (discontinuous) were foot surveyed between Delta Junction and Prudhoe Bay. The sponsor assigned 231 miles in Work Order No. 8 and 0.4 miles were added in the field. Owing to permitting problems which precluded flagging by surveyors, or to access problems on short segments, 4.3 miles were deleted in the field as per verbal instructions (NWA MP 247.7-248.5, 528-525.5, 537-539.3). All other segments were surveyed by field crews during the course of the 1980 season (Appendix 1). It is estimated that some 285 worker days were required to complete the 8.7 square miles of segments for an intensity of 33 worker days per square This compares with slightly more than 40 worker days per square mile mile. along 1978 and 1979 segments which were all located in forested areas. Open terrain characterized much of the northern centerline and contributed to more rapid survey there using the same methodology employed in previous seasons. In fact, spacing of field personnel was similar, for the most part, during the 1980 season as previously, and shovel probing was at least as frequent.

Detailed information on the terrain surveyed will be provided in the final report to the sponsor and permitting agencies. In a section which follows the cultural resources identified along the centerline segments in 1980 are summarized. The significance of these resources, potential impacts from proposed construction and associated activities, and mitigation alternatives are provided.

Exploratory Material Sites: Survey

Work Order No. 8 outlined the intensive on-the-ground survey of some 67 EMS's totalling approximately 3959 acres, plus their accesses. Prior to the start of the field season, it was agreed to delete several EMS's which were not readily accessible (parts of EMS 16-1, all of 16-2, 19-2A, 30-3, and 33-1). In the field conditions permitted access to several of these (19-2A and 33-1) and they were reincorporated into the program. In addition, we field examined several unscheduled EMS's which were part of the visual program* (but accessible and with archaeological potential) and several viable alternative EMS's to others with known associated cultural resources (1-4*, 12-2A, 12-2B, 20-3B*, 45-1*, 60-1.1). Parts of several EMS's scheduled for intensive survey were partially inaccessible and therefore partially visually examined (29-1C, 32-1, 32-3).

A total of 4009 acres on 72 EMS's was intensively surveyed during the 1980 field season by four crews of 5-6 archaeologists (Appendix 2). Several of the intensively surveyed EMS's were also monitored during the backhoe program (see below).

Prior to commencement of the 1980 field season an in-depth background review of previously recorded cultural resources in the vicinity of EMS's alerted field crews to high probability areas and to EMS's which might contain extant materials of known sites. In most cases reported sites did produce additional materials during our reassessments of them (even in cases where total excavation was reported in the literature). Several of the known resources contain significant information and are treated below in our assessments of eligibility for nomination to the National Register. In all but a few cases, owing to poor or inaccurate locational information in the literature, we were able to assign the state AHRS number to these resources.

We identified a number of new cultural resources on or immediately adjacent to the EMS's surveyed during 1980 (see below). In all but the few cases indicated sufficient information was obtained during our limited field testing to provide for an assessment of significance (and eligibility for nomination to the Register). Detailed site maps and descriptions will appear in the final report to the sponsor and permitting agencies on the 1980 work. This permit report presents AHRS data and assessments, briefly, below.

Exploratory Material Sites: Visual Examination

Work Order No. 8 listed some 64 EMS's (the actual number is larger as adjacent EMS's bear the same numbers and are differentiated by letter), mainly inaccessible from the haul road or in active stream channels, for visual examination and determination of potential for revealing cultural resources. We visually examined 52 EMS's in the field and interpreted aerial photos for an additional 15 EMS's (Appendix 2). As noted above, several of the EMS's were intensively surveyed since they were accessible and had some potential for revealing cultural resources.

Borehole Locations and Trench Stability Plots

Work Order No. 8 marked one borehole location and its access for intensive survey. During the course of the field season four additional locations and five trench stability plots were added to the program. Borehole locations varied in size from $150 \times 150'$ to $260 \times 200'$ plus accesses and totalled 4.6 acres. Five trench stability plots were added to the program; they were the size of small EMS's and totalled 98.7 acres (Appendix 3).

Backhoe Program: Archaeological Monitoring of Trenching

Work Order No. 8 outlined archaeological monitoring of approximately 28 EMS's which were to be trenched during the course of the field season. Two archaeologists were assigned as monitors, one with each of the two backhoes. They were responsible for examining the access routes and areas to be disturbed by backhoe activities. During the course of the program a number of field deletions and additions were made (Appendix 4, end) and a number of EMS's were added to the field program north of Delta Junction. South of Delta Junction an amendment to Work Order No. 8 expanded the original number of EMS's to be monitored to 84 and the number of trenches to be examined to 302 (see Appendix 4).

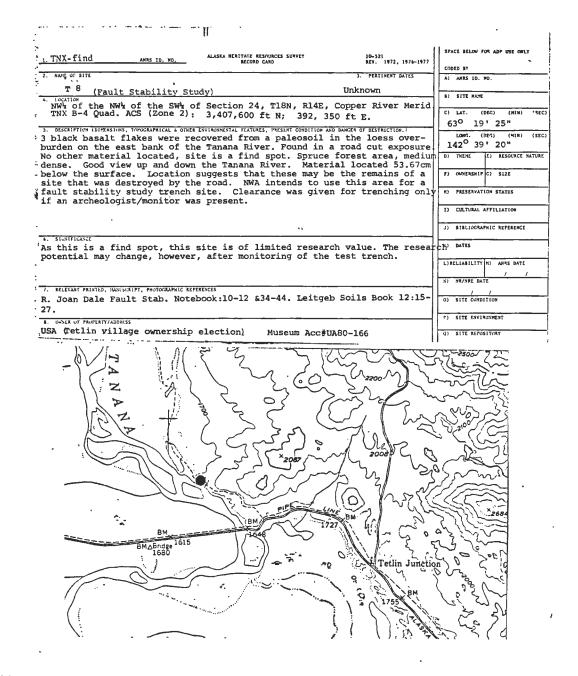
As noted above, several EMS's were both intensively surveyed and monitored as part of the backhoe program. In only two cases where cultural resources were identified (EMS 21-1 and 27-1) was their danger that the CAT would adversely impact a newly reported resource. In these examples indistinct or confused* flagging of cultural resources by survey crews was compensated for by field notes supplied the monitor which allowed the CAT to avoid the known site area both during access and trenching activities. The backhoe program did reveal several cultural resources and find areas reported in a later section.

*Flagging by several NWA programs and flagging remaining from Alyeska archaeological surveys posed interpretive problems for the backhoe operator.

1980 SURVEY RESULTS AND RECOMMENDATIONS

The descriptions of cultural resources and finds identified during the 1980 field season are presented below. For newly reported and previously recorded cultural resources (and finds with AHRS designations), facsimiles of AHRS cards are presented and map locations (1:63,360) provided. addition, a summary of assessments, to be expanded in the final report to the sponsor and permitting agencies, is provided. This includes a summary assessment of significance in terms of Register criteria. Not all resources are considered potentially Register eligible but some with information to reveal about historic or prehistoric land use in interior Alaska are noted as a separate category. When the impacts upon Register eligible resources are direct, mitigation alternatives recommended are avoidance or scientific excavation. For resources with some potential for adding useful substantive information, avoidance or salvage of remaining materials may be recommended. In cases where available data are insufficient to permit an assessment of Register eligibility, further testing of the resource or find area is recommended. Some resources and finds are judged to have no significant information to yield and no mitigation is recommended. In the case of indirectly impacted resources, our view is that the sponsor has some responsibility for lessening potential adverse effects, especially when construction and operation-related activities will increase the likelihood of such indirect impacts. Protection and stabilization (posting, fencing, filling in eroding Alyeska test pits, etc.) are potential efforts the sponsor may take towards management.

The resources and finds are presented from south to north. At the end of the review of 74 localities (newly recorded and previously recorded cultural resources and finds) Table 2 summarizes each in a tabular format.



Significance: None. Presumably the resource was destroyed earlier by road construction. Reconnaissance and subsequent testing revealed no additional materials.

Impact: Directly on access but no adverse effect will occur.

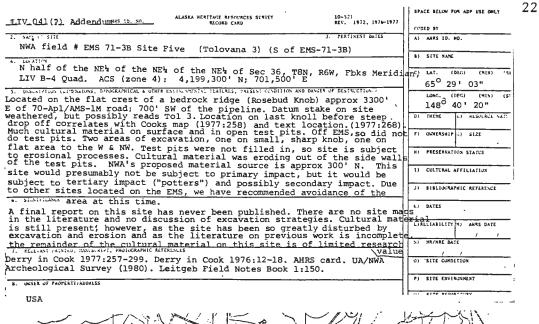
Mitigation: None

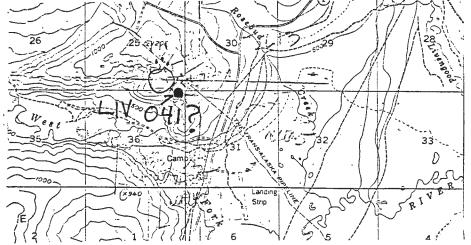
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Low. This isolated (cache?) is unlikely significant to reveal information on historic land use, though some Significance: data may be forthcoming.

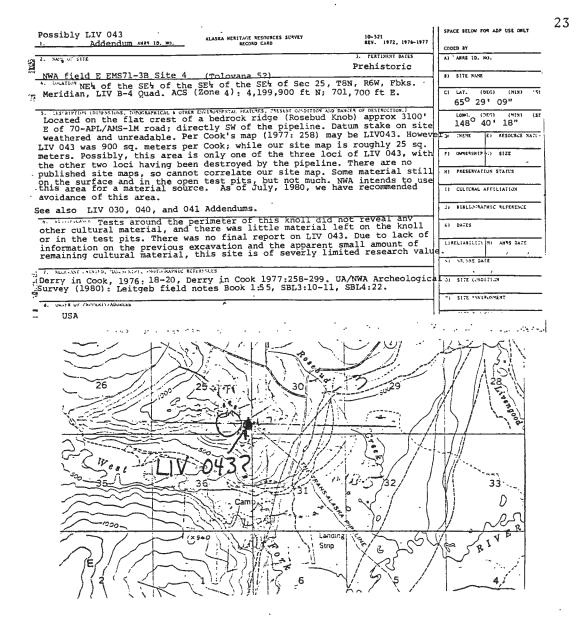
Impact: Directly on proposed centerline.

Mitigation: Avoid or salvage.





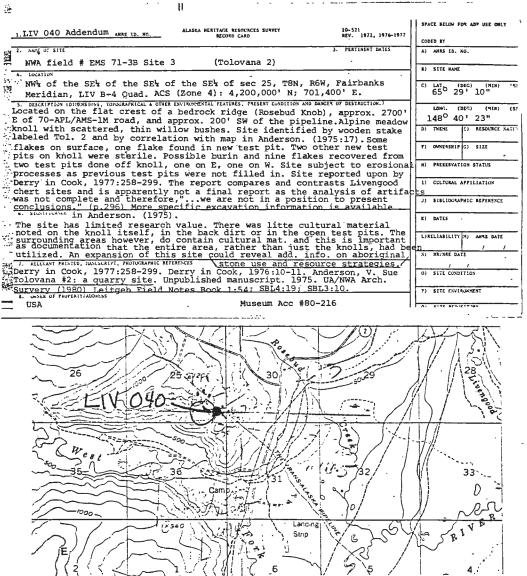
Significance:	Low. Extensive site damage and erosion suggest little pertinent information on past land use exists.
Impact:	Indirect. Proposed EMS is 300' distant.
Mitigation:	Avoid and fill in Alyeska test pits to curtail erosion.



Significance: Low. Presumably this is a partially extant locus of LIV-043. Some limited data remain in test pits and on the surface.

Impact: Directly on a proposed EMS.

Mitigation: Avoid or salvage.



- Significance: Medium. As part of the wider phenomenon of Livengood workshops and lookouts, what remains of LIV-040 has information of interest to yield and could be considered eligible for Register nomination in that wider context.
- Impact: Directly on proposed EMS.
- Mitigation: Avoid and fill in Alyeska test pits to curtail erosion or excavate.

1. LTV-105 ANRS 10. 50. ALASKA HERITAGE RESOURCES SUVEY 10-521 RECOND CARD REV. 1972, 1976-1977	SPACE BELOW FOR ADP USE COLLY
2. VALL J., PERTINENT DATES	A) ARRS (D. NO.
-	
EMS 71-3A Site 5 (The Animal Truck Site)	8) SITE NAME
Center of the western half of the SW% of the SW% of Sec 30, T8N, SW,, Fbks. Meridian, ACS (Zone 4): 4,200,000' N; 701,900 ft E	C) LAT. (DEG) (NIN) "SECI
TUNES MELITIANI, ACS (2018-4): 4,200,000 N; 101,500 LC E	650 291 10"
Site 100' SW of LIV-046 (Tolovana 9)* on a narrow, E-W trending bedrock knoll	LONG. (DEA) (MEN) (SEC)
1 mi SW of Rosebud Creek & 2 mi NE of the Tolovana River. Knoll completely	148 ⁰ 40' 12"
vegetated on crest with some exposures on the steeply sloping eastern edges.	D) THENE E) RESOURCE NATURE
Some outcrops of Livengood Chert. On west, knoll truncated by Alyeska pipe pad. Birch, spruce, willow, alder, moss/lichen veg. mat. Cultural mat. scat-	E) OWNERSHIP () SIZE
tered sporadically up to 132' E of summit. Site 50' wide at crest, fanning out	
wider in E. 30cm x 30cm test pit on crest yielded 14 chert flakes. Most like-	H) PRESERVATION STATUS
ly another Livengood workshop/possible quarry site. Condition of site good, as	· · ·
it has a vegetation cover and has not been potted or previously excavated.	1) CULTURAL APPILIATION
NWA intends to use this knoll as a material source. As of July, 1980 avoidance of the entire knoll has been recommended.	3) BEBLINGRAPHIC REFERENCE
• • • • As this is the only Livengood chert locality (lithic reduction	
site) that has been found not yet potted or excavated, it is highly significant	K) DATES
This general site type has been documented by Alyeska archaeologists.	LINELLABLLETT MI ANRS DATE
(Derry in Cook 1976:257-299).	
7. RELEVANT PRINTED, HUUSSLATPT, PHOTOGRAPHIC REFERENCES	S) SR/SRE DATE
	0) SITE CONDITION
UA/NWA Archaeology Survey (1980): Leitgeb Notes Book 1:57-58/Soils Book L4:29-33; Museum Accession #UA80-221.	
b CONSTRUCT REPORT AND A DECEMBER AND A DECEMBER AND A DECEMBER	P) SITE ENVIRONMENT
*Assumed to Tolovana 9 as a 2" x 2" wooden stake labeled Federal so was found at the site.	U) SITE REPUSITORY
so was found at the site.	
·	
26 26 2000 25 (200) 107 107 107 107 108 108 108 108 108 108 108 108	28 28 28 28 28 28 28 28 28 28 28 28 28 2
(2) (1) ((1) (6) (5)	4/

Significance: High. This site potentially eligible for Register nomination as part of the Livengood site complex. Furthermore, LIV-105 is intact.

Impact: Directly on proposed EMS.

Mitigation: Avoid or excavate.

ALASKA RESCU OF LIDARY U.S. Department of the Interior

1. LIV 046 Addendum ANRS 10. NO. ALASKA HERITAGE RESOLUTES SURVEY	10-521	SPACE BELOW FOR ADP USE ONLT
1. LIV U46 Addendum ARKS 10. NO. RECORD CARD	REV. 1972, 1976-1977	CODED BY
2. NAUE OF SITE	3. PERTINENT DATES	A) ANRS ID. NO.
NWA field # 71-3A site 3 (Tolovana 9)* Preh:	istoric	B) SITE NAME
6. LOCATION		a) SITE AGE
Center of the western half of the SW4 of the SW4 of Sec R5W, Fbks Meridian, LIV B-4Quad. ACS (Zone 4): 4,200,100 5. DESCRIPTION (DIRENSIONS, INFOCRATICAL + OTHER ENVIRONMENTAL FRATERIS, PRISENT CONDITION AND DAMA	N; 701,950'E	c) LAT (DEG) (MIN) 'SE 65° 29' 10"
Located on the flat crest of a bedrock ridge (Rosebud Knol		LONG. (DEG) (MIN) (SE
T D OF 70 ADT /ANGULM AND MONTH FOL AND A FALLS AND AND A		148 ⁰ 40' 12"
Alyeska, However, the total information on the site consist	sts of only an	D) THEME E) RESOURCE NATI -
Alyeska. However, the total information on the site consi: AHRS card which has listed under Description "Single Bi listed are "Alyeska Notes". Site consists of 3 knolls, kr Knoll 1A has 3 one ft. + test pits; knoll 2 has 5 small es	face". References noll 1, 1A & 2.	F) OWNERSHIP C) SIZE
Site does not appear to have been excavated. Lithic scatte	er on all three	N) PRESERVATION STATUS
pits had been filled in.) NWA intends to use this area for	previous test	1) CULTURAL AFFILIATION
material source. As of July, 1980, avoidance of this area	has been recomm	ended.
and perhaps slightly "potted". The potential exists for va to be gathered regarding aboriginal stone working practice	merely tested luable informatio	NI DATES
to be gathered regarding aboriginal stone working practice	s. (See LIV-103,	
2. RELEVANT TRINTED, HUNDORWIT, FHOTOWRAPHIC REFERENCES		S) S2/NRE DATE
Previous AHRS card. UA/NWA Archeological Survey (1999)		O) SITE CONDITION
Book 1:57-58. Soils Book L4:30-33	eitgeb rield note	s
4. UNALK OF PROPERTY/ALDRESS MUSEUM ACC # UA80-210 *& 2 wooden st	Tpl. 9 as. a. 2"	C) SITE ENVIRONMENT
Museum Acc # UA80-210 * \$2 ⁰ wooden st USA was found at th	cake so labeled	··· ··································
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Significance: Medium to High. This site has potential for Register eligibility in the wider context of Livengood sites. There is little evidence of previous disturbance.

Impact: Directly on proposed EMS.

Mitigation: Avoid or excavate.

1.I.IV_050_Addendum_um	ALASKA MERITAGE RESONACES SURVEY	10-521 REV. 1972, 1976-1977	CODED BY
2. NAVE OF SITE		3. PERTINENT DATES	A) ANRS 10. NO.
	(Tolovana 13) (On EMS-71-3A)	Prehistoric	
4. LOCATION	(1010/111 10)		B) SITE NAME
SEt of the NET Meridian, the Pud Ourd	of the SEt of the SEt of Sec 25 ACS (Zone 4): 4,200,300 ft N.;	, T8N, R6W, Fbks	C) LAT. (DEG) (NIN) 'SE
			65 ⁰ 29' 12"
	CAL & OTHER ENVIRONMENTAL FEATURES, PRESENT CONDITION AND		LONG. (DEG) (MED) (SE
Located on the flat cres	t of a bedrock ridge (Rosebud Kno	ob), approximately	1480 40' 18"
Labeled MOL 12 Deveded	road, 225' NE of pipeline is a 2	X 2" wooden stake	D) THESE (E) RESOURCE NATUS
no excavations. no sign	of any disturbance. Absolutely no	hing published	
on LIV 050, Tol 13. Tota	Into spongy moss vegetative mat. of any disturbance. Absolutely no l information available is an AHR	RS card with	F) OWNERSHIP C) SIZE
the listed reference "Al			N) PRESERVATION STATUS
			A) PRESERVATION STATUS
•	,		U CULTURAL AFFILIATION
	·		J) BIBLIOGRAPHIC REFERENCE
9. STUNIFICANCE		•	K) DATES .
	and the standard to a second	tant	
٠		· .	L) BELIABILITY H) ANS DATE
	~		
7. RELEVANT PRIMIED, SUGLACATET, PROTO			N) SRINRE DATE
AHRS card. NA/NWA Arch	eological Survey (1980): Soils Bo	ook Leitgeb 3:12-13	() SITE CONDITION
A. UNIXER OF PROPERTY/ADDRESS			P) SITE ENVIRONMENT
USA	•		
26	25	299 Ne 050	281 Live magaz
	Camp 31 31 Carter Camp 31 Carter Cart		PRIVER RIVER

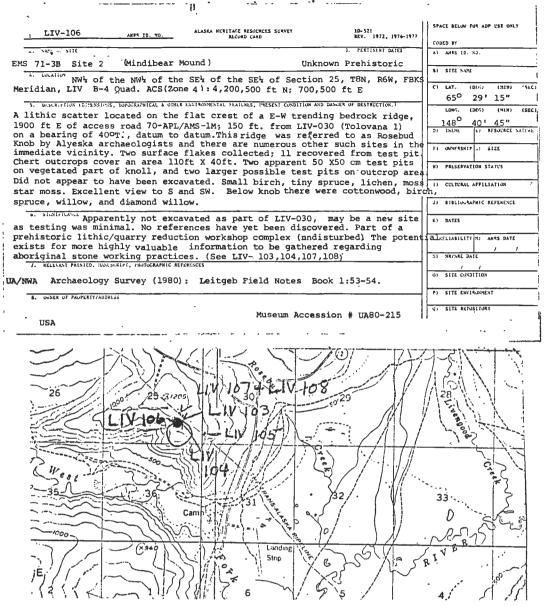
8

Significance: Unknown. Potentially the site is important in the wider context of Livengood sites.

Impact: Directly on proposed EMS.

1

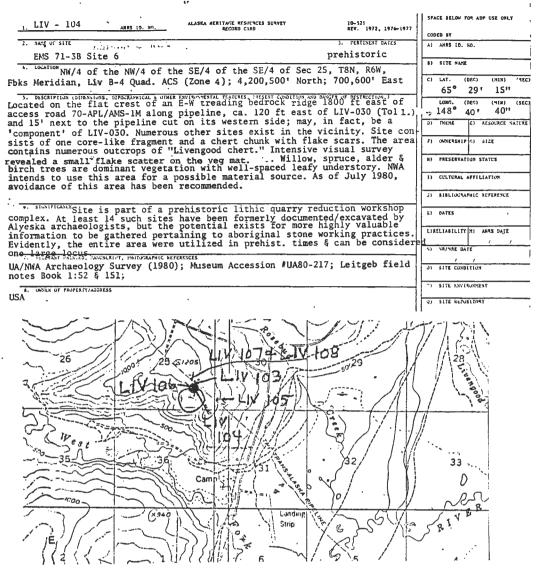
Mitigation: Avoid or test further and assess.



Significance: Medium to High. The site has potential for Register eligibility in the wider context of Livengood sites. The site appears intact.

Impact: Directly on proposed EMS.

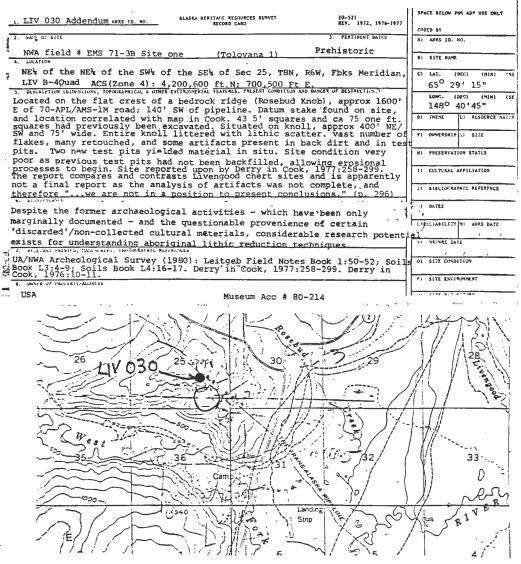
Mitigation: Avoid or excavate.



Significance: Medium to High. The site has potential for Register eligibility when considered in the wider context of Livengood sites. The site is apparently small but intact.

Impact: Directly on proposed EMS.

Mitigation: Avoid or excavate.

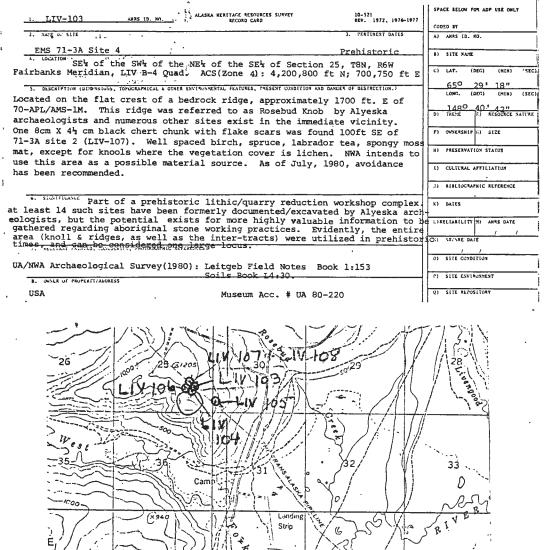


Ð

Significance: Medium. There is evidence remaining which indicates potential Register eligibility when considered in the wider (Livengood) context. Some in situ material remains.

Impact: Directly on proposed EMS.

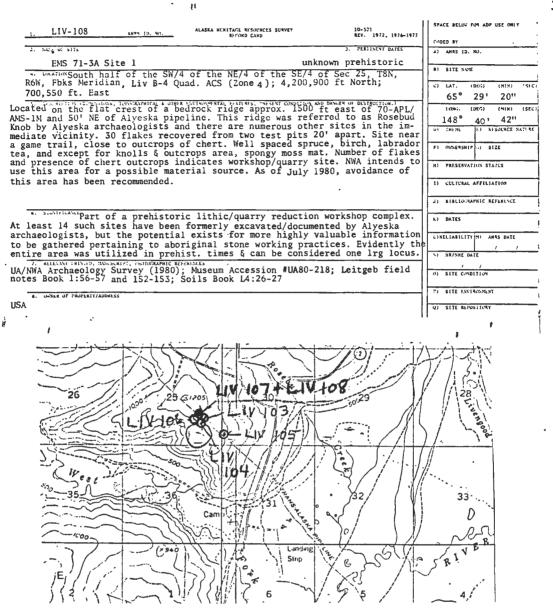
Mitigation: Avoid and fill Alyeska test pits to curtail erosion or excavate.



Significance: Medium. Potential for Register eligibility exists at this site when considered as part of the larger Livengood context (see LIV-103, 104, 108). Vegetative cover suggests associated in situ materials.

Impact: Directly on proposed EMS.

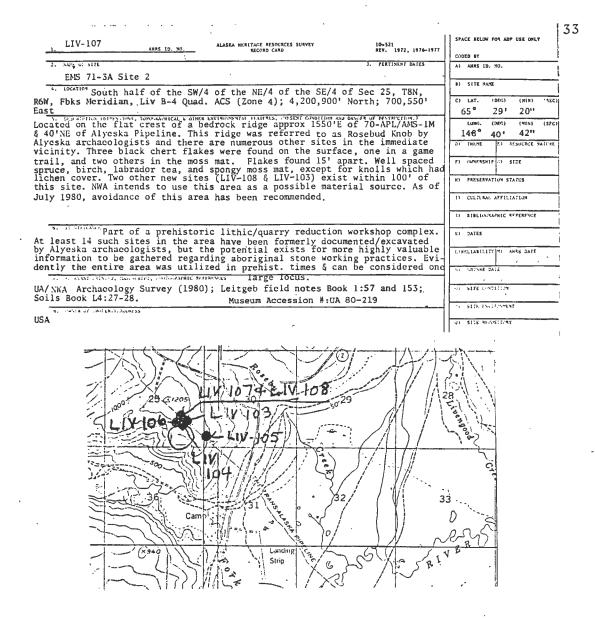
Mitigation: Avoid or excavate.



Significance: Medium to High. This site has potential for Register eligibility in the context of Livengood quarry and lookout sites. Materials are in situ.

Impact: Directly on proposed EMS.

Mitigation: Avoid or excavate.



Significance: Medium. This locus has potential for Register eligibility in the context of other Livengood quarry and lookout sites. Some in situ materials are anticipated.

Impact: Directly on proposed EMS.

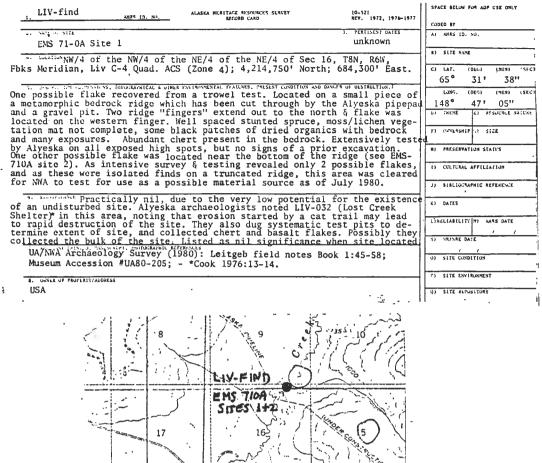
Mitigation: Avoid or excavate.

۰.		ŧ) -		
LIV-039	AHRS 15, WO.	- ALASKA NERITAGE RESOURCES SURVEY Record Card	10+521 REV. 1972, 1976-1977	SPACE BELOW FOR ADP USE ONLY
Cabin at L	ost Creek		3. PERTINENT DATES Historic	A) ANRS ID. NO.
Fairbanks M ft E.	eridian, LIV-C-	alf of the NW4 of the NE 4 Quad. ACS(Zone 4) 4,2	13,500 ft N, 683,700	B) SITE NAME C) LAT. (DEG) (NIN) 'SEC) 65° 31° 27"
Cabin with 71-31. Re structure.	walls only par portedly, trees The structure	A ENTIMMENTAL FEATURES, PAISINT CONDITION tially standing is locat 4" in diameter are grow 2 is some 500' from the r 1680-14-00-B-H-71 Rev. 6.	75' w ed 7of NWA borehole ring inside the evised NWA centerline	LONT. (1967) (MIN) (SEC) 1480 481 20" D) ТИЕЧЕ //) RESOURCE NATURE P) OWNERSHIP () SIZE
~	is not in dange	r from proposed pipeline	activities.	N) PRESERVATION STATUS I) CELTURAL AFFILIATION J) BIBLIOGRAPHIC REFERENCE
-		historic settlement of	the Livengood area	KI DATES
Verbal rep		anson of the OFI (Fairba Tield personnel.	nks) 10/80 and veri-	
USA	JJJKE.35	<u> </u>		(*) \$175 Resonance)
مع ب ل	17	EMS 7.3 Editor		ĩ

Significance:	Medium to High. The site has potential for Register eligibility in relation to early historic mining activities in the area.
Impact:	Indirect (500 feet from revised centerline on AS-071-REV. 6).

20

Mitigation: Avoid, stabilize and post. Fencing may also be advisable.



22

Significance: None. Present are isolated flakes without context.

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Impact: Directly on proposed EMS.

135

20

Mitigation: None

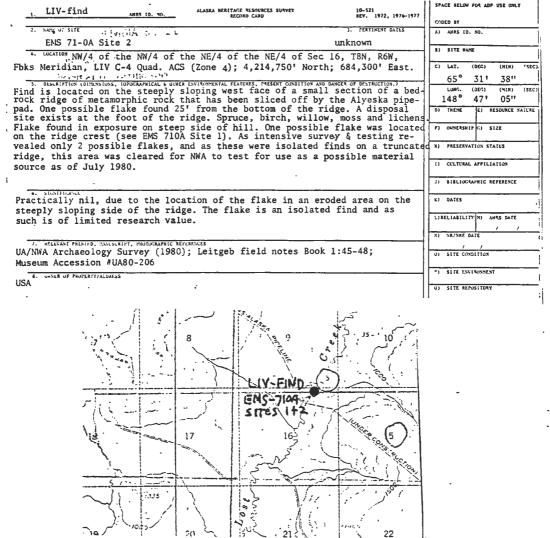
LIV-032 (see LIV-Find EMS 71-0A Site 1)

This site no longer exists.

Significance: None. The site was destroyed by Alyeska construction activities.

Impact: Directly on proposed EMS.

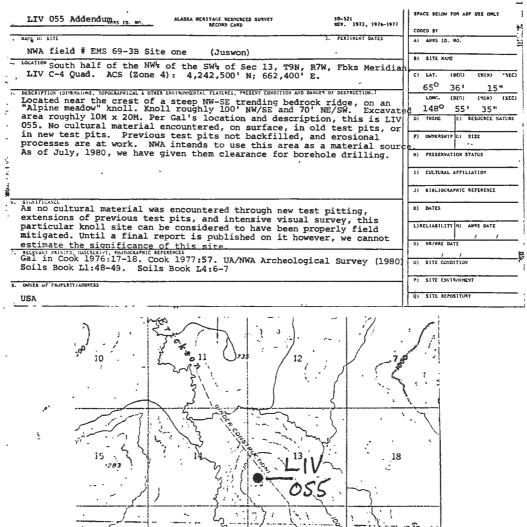
Mitigation: None



Significance: None. This find is isolated and lacks interpretable context.

Impact: Directly on proposed EMS.

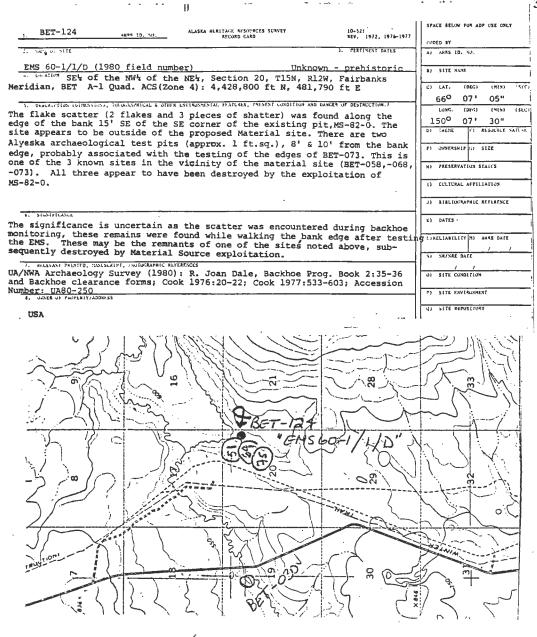
Mitigation: None



Significance: None. The site was mitigated by Alyeska archaeological salvage operations.

Impact: Directly on proposed EMS.

Mitigation: None



Significance: Unknown, probably low or none. The lack of materials despite testing suggests little if any information remains.

Impact: Directly on or immediately adjacent to a proposed EMS.

Mitigation: None

39

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BET-006 Addendum AMAS 10. NO.	ALASKA HERITAGE RESOURCES SURVEY Record Card	10-521 REV. 1972, 1976-1977-	E BELOW FOR ADP USE ONLY
EMS 54-1B/1/L	- , . linknow		ANRS 1D. NO.
Meridian, BET B-2 Quad. ACS	4,565,500N,396,200E(Zone 4	19N, RISW, FDKs	SITE WAYE LAT. (TEG) (XIX) 'SEC) 6° 29' 33''
Description to be the second s	when the flake and one 3 k obsidian flake and one 3 ed near a distinctive huge stern end of a roughly E-W eau area with huge outcrop. rising rapidly in the W to cm moss mat on top of gra e remains of BET-D06.* NWA ial source. As intensive : exposed areas, as test pit ka had already tested & po	xxXXX or DESYNCTION.) x X 2 cm basalt bedrock outcrop. trending ridge. s, gently sloping ba very high peak. vels and scattered intends to use survey revealed no ssibly excavated 	LONG. (DEG) (413) (SEC) 50° 42' 35'' INENE - (2) RESULTO SATURE DENERSHIP (3) SIZE PRESERVATION STATUS (EULTURAL AFFILIATION
locality, there is little lik existing there. However, gre area characterized by a flat yielded negative survey resul	exposed arcas & rugged na elihood of substantial arc atcr potential may exist i plateau near a stream alth ts.	ture of the flake haeological materials n a nearby lower ough this area	AIBLIOGRAPHIC REFERENCE UARES LIABILITY M) ANS DATE ',' YNE DATE ' ' ' ' ' ' ' ' ' ' '
U.A/MMA Archieology Survey (19 Museum Accession #UA80-204 -	"per Cook's location - Coo		STE ENTREMENT
5 4		HAUTE ROAD	A de la segente
8 0194	EMS.54-1014 BET-006 ADDENDUM		12 × 2070
	15	14	13

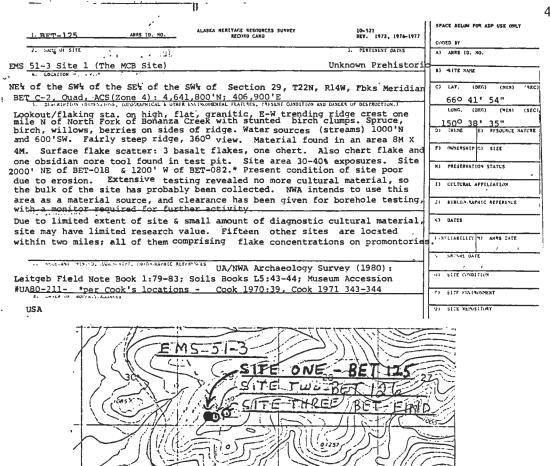
Significance: Low or none. This site is considered to have been mitigated during Alyeska operations. No information potential remains.

~

Impact: Directly on a proposed EMS.

Mitigation: None

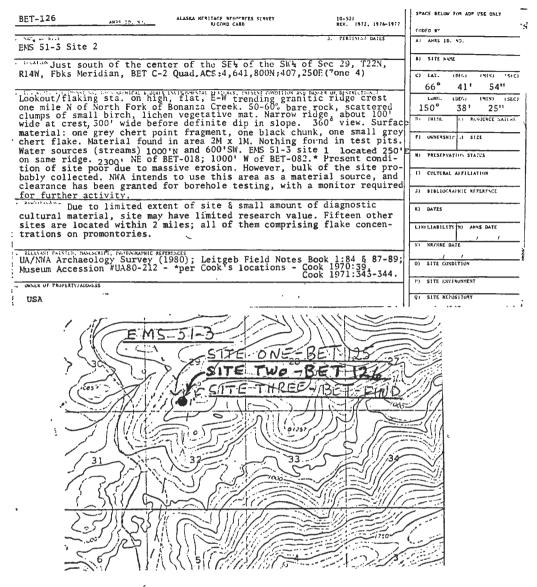
.



Significance: Medium to Low. Surface erosion and lack of in situ materials suggests low potential for significant information yield. However, some data are present and relate to wider activities in the immediate area.

Impact: Directly on proposed EMS.

Mitigation: Avoid or salvage.



Significance: Medium to Low. Surface erosion and lack of in situ materials suggests low potential for significant information yield. However, some data are present and relate to wider activities in the immediate area.

Impact: Directly on proposed EMS.

Mitigation: Avoid or salvage.

, BET-find (BET-0822)	ALASKA HERITAGE RESOURCES SURVEY	10-521	SPACE BELOW FOR ADP USE ONLY
1. BEI-TING (BEI COMAS ID. SO.	RECORD CARD	REV. 1972, 1976-1977	CODED BY
2. SATE CLISTE Charles to the state		3. PERTINENT DATES	A) ANRS ID. NO.
EMS 51-3 Site 3		cnown prehistoric	1) SITE NAME
Fbks Meridian, BET, C-2 Quad. ACS	(7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7)	29, T22N, R14W,	C) LAT. (DEG) (MIN) 'SEC)
			66° 41' 55"
3. Discription (Diversions, topolarmical Lookout/flaking station on high, mile N of North Fork of Bonanza (flat. E-W trending granit	tic ridge crest one	LONG, (DEG) (MEN) (SEC)
mile N of North Fork of Bonanza C	reek. 40-50% bare rock,	scattered birch clum	
moss/lichen vegetation mat. Wide break to S, northern break within	200'. 700' E of EMS 51	-3 site 2. 950' E of	D) THEME E) RESOURCE NATURE
EMS 51-3 site 1 (BET-125) with a three and the other two. Massive	high, massive rocky prom:	inence between site	F) OWNERSHIP C) SIZE
			W) PRESERVATION STATUS
flake on surface. Nothing encount poor due to erosion. There is pro	bably not much else there	e. NWA intends to	
use this area as a material source testing, with a monitor required		red for borehole	1) CULTURAL APPILIATION
1	•		J) BIBLIOGNAPHIC REFERENCE
. SIGNIFICANCE Due to the limited e	extent of the site and the	e lack of diagnostic	K) DATES
cultural material, the site may h sites are located within two mile	lave fimited research valu	ie. Fiiteen other	
tions on promontories. Site 3 may	possibly be the remains	of BET-082 per	LIRELIABILITY H) ANRS DATE
Cook's map locations.	15×7×2		N) SR/NRE DATE 4
UA/NWA Archaeology Survey (1980); Accession #UA80-213; Cook 1970:39	Leitgeb field notes Bool	< 1:99-100; Museum	0) SITE CONDITION
Accession #UA80-213; Cook 1970:39	; Cook 19/1:343-344.	Ŧ	P) SITE ENVIRONMENT
8. UNNER OF PROFERITIADORESS			L
usa		· · ·	Q) SITE REPUSITORY
۰۰		-	
EMS	-51-3		
2 MC CAN	C CIEC DALE	Din E	
> 3d	STE DIVE	-131-1-12.22	
	SITE TWO	- BE1-126	
(Ces	LUSSITE THRE	BET END	200
	Seiter I Impin	110-1.11 00	
	T SUMILIC		
	5005-100	57 11 1	
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1000 / John M		1750-	Crit
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	IN FUMEE	100	Contraction of the second seco
	NI THANK ST		

Significance: Low or None. Erosion and the single find of a (surface) flake suggest no data remain. If this was BET-082 it may be considered mitigated.

Impact: Directly on proposed EMS.

Mitigation: None 43 ·

BET-083, 018 (see BET-Find (BET-082?) EMS 51-3 Site 3)

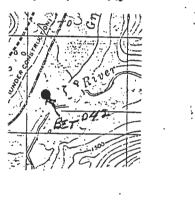
Sites completely destroyed.

Significance: None. No materials from either site remain. Published data on these loci is very limited but no additional information can be recovered.

Impact: Directly on or near a proposed EMS.

Mitigation: None

	1. BET-042 ANRS 10. NO.	ALASKA HERITAGE RESOURCES SURVEY	10-521	SPACE BELOW FOR ADP USE ONLY
		RECORD CARD	REV. 1972, 1976-1977	CODED BY
趨	2. SAUG OF SITE		). PERTINENT DATES	A) AMES ID. NO.
34	BET-042; Alyeska # 54-28		Prehistoric	B) SITE HAME
	NW 4 of the SE4 of the NW4,	Sec 9 TOAN DIGHT Designed	· · ·	
15	D-1 Quad. ACS: (Zone 4):4,72	2,500'N: 438.300'F. Top o	f knoll	C) LAT. (DEG) (HUH) 'SE.
	5. DESCRIPTION GALIENSIONS, TOPOGRAPHICAL & OTHER	R ENVIRONMENTAL FEATURES, PRESENT CONDITION .	AND DANGER OF DESTRUCTION.)	
÷	The site is located on a kno	ll with a small run-off s	tream on the SE. The	W 150° 25' 45"
:	Jim River is ca 1000' to the	SE. BET-042 was excavate	d in 1974 and it	D) THEME E) RESOURCE NATUR
i.	appears to be about 20m x 30 backfilled. We located addit	m. It was difficult to te	ll if the site was	F) OWNERSHIP () SIZE
·	in the excavated portion and	a lanceoloate obsidian p	idian, chert flakes)	F) GINERSHIP () SIZE
•	by game train (much or this )	material was collected)	Deepite these finis	N) PRESERVATION STATUS
	we were unable to locate ne	W material in our tests o	steide of the owned	() CELTURAL AFFILIATION
	valed area suggesting that m	OSt Of the site has in fa	of been removed my	
	site is not currently endang	ered by construction plan	s.	D BIBLIOGRAPHIC REFERENCE
	Since the material has not be			KI DATES
	determine but a site as large	een analyzed its signific: e as this should be quite	ance is difficult to	
-	ineacing the culture history	y and past land use patter	Ins in the Graving	LIRELIABILITY Y) ANRS DATE
	Dake/old River valley.	معدود ما معاد	the drugting	N) SRIDRE DATE
14	T. RELEVANT FRINTED, HOUSCALPT, PROTOGRAPHIC RE	FERENCES		J) SITE CONDITION
	UA/NWA Archaeological Survey P21-22: Photos Poll F-1 #26-1	(1980) Fieldnotes: Fetter	pl18-123;Jordan	
	P21-22: Photos Roll F-1 #26-	29. Gal Alveska Fieldnote 74-3/68-115;74-4/1-5,	and the second	P) SITE ENVIRONMENT
	USA Museum # UA 80-22		**************************************	15 CTT 28110 1345
	•			
			-	



Significance: Medium. There are published data available and materials are still present but with dubious context. Register eligibility is unlikely but some information may remain of interest.

Impact: Indirect

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Mitigation: None

20 SPACE BELOW FOR ADD USE ALASKA NERITAGE RESOURCES SURVEY BET-054 10-521 REV. 1972, 1976-1977 ..... CODED BY PERTIMENT DATES SAN-A) ANRS 10. NO. 3 PREHISTORIC EMS-48-0/1/F ; BET-054; Alyeska # S4-35 8) SITE NAME 37, NW4 of the SE4 of the NE4, Sec. 5, T24N, R13W, Fairbanks Meridian; BET LAT. (DEG) **c**} D-1 Ouad; ACS: (Zone 4)4,729,250'N; 441,250'E; on the SE end of a kame 3. DESAUTION (DIMENSIONS, IDVOLUMENTAL & OTHER ENVIRONMENTAL FLATCRES, PRESENT CONDITION AND BANKER OF DESTRUCTION.) 66 56 17" N (413) (DEC) ( 51 LONG - The site is located on the SE end of a kame just above Grayling Creek. The <u>150</u> 24 45" site was excavated in 1974. Much of it appears to have been backfilled but W parts were apparently not filled in. Erosion is actively changing the site area and has exposed many flakes in the backdirt of the excavation. We lo-F) OWNERSHIP (.) SIZE cated flakes of chert (we collected none) in the backdirt. Our tests turn--ed up nothing new which suggests that most of the site has in fact been N) PRESERVATION STATUS excavated. If NWA uses the area for a proposed material source the site 1) CULTURAL AFFILIATION will finally be destroyed. It was cleared for termination by the Alyeska archaeologists. Contrary to reports about this site (by Gal) this site is J) BIBLIOGRAPHIC REFERENCE not located on the valley floor "Since the site has not been analyzed its significance is difficult to K) DATES assess. Studied in conjunction with the other sites in the area it should LIRELIABILITY (M) ANKS DATE mreveal much about past land use patterns and the culture history of the Grayling Lake/Jim River Valley. Grayling Lake/Jim River Valley. ¹/ Hillust Hists, Buschtr, Muschark Hintsch ²/UA/NWA Archaeological Survey (1980) Fieldnotes:Fetter pl23-123;Jordan p26; 0) SITE CONDITION Villa p36; Photos Roll F-2 #21-23. Gal 1976:97; Gal Fieldnotes 1974: P) SITE ENVIRONMENT. 8. UNNER OF PROPERTY/ADDRESS 74-4/10-11, 74-5/19-20 Museum # UA 75-173 USA ... . . . . . . . · 1) BET-054 2) BET-123; Betts site Grayling, Lake 3) BET. 122 Gibbins Site BET-055

Significance: Low to Medium. Considered in the wider context of Grayling Lake human occupation this site has some potential for Register eligibility. Some data do remain and excavated (Alyeska) materials are available for restudy.

Impact: Direct

Mitigation: Avoid and backfill to curtail erosion or excavate.

 $\tilde{f}_{i}$ SPACE BELOW FOR ADP USE ONLY ALASKA HERITAGE RESINCES SURVEY RECORD CARD 10-521 REV. 1972, 1976-1977 **BET-122** CODED IN SAUC OF STIE PERTINENT DATE A) AHRS ED. NO EMS 48-0/3/F; Borehole B - Gibbins Site prehistoric B) SITE MAME Location SE/4 of the SE/4 of the SE/4 of Sec 33, T25N, R13W, Fbks Meridian
 BET D-1 Quad. ACS (Zone 4); 4,730,900' north, 442,000' east; east side of () [AT (DEC) (313) A flake and scraper were located on the east side of a kame below which Grayling Creek 130 ft east of Borehole B. The chert flake was in the back-dirt of an old (Alyeska) test pit and was not collected. The scraper was a subsurface find; it was black chert & was collected. Tests were made 66° 56' 32" (DEG) ("EN) (SEC) 150° 24' 10" TVENE RESOURCE SATI to locate more material over an area about  $12m \ge 14m$  but nothing else was located so the status of this site is uncertain. Downslope creep, erosion and animals are affecting the area. The game trails here are exceptionally PRESERVATION STATUS large & noticeable. Proposed NWA work in this area would cause damage. They were therefore issued a non-clearance for any work August 1980. 1) CELTURAL AFFILIATION J) BIBLIOGRAPHIC REFERENCE The significance of this is difficult to assess. As with other kame sites in the area (BET-055, BET-026) it may take extensive testing to find the con-centration of material. In conjunction with the other sites in the Grayling Lake/Jim River Valley however, it will aid in delineating past land use patterns and culture history. K) DATES . AHAS DATE LIRELLASILITY M UA/NWA Archaeology Survey (1980); Fetter field notes:149-151 & 106-108; Villa field notes: 37; Museum Accession #UA80-229 STER ESVIRONMENT 8. UNLER OF PROPERTY ADDRESS 85.0051708 USA-Federal 1) BET-054 2) BET-123; Betts site Grayling. Lake 3) BET. 122 Gibbins Site 4) BET-055 BETE D-1 Quad

Significance: Unknown, possibly medium. While the presumed concentration of materials was not located it is believed to exist in situ. In the context of Grayling Lake occupation BET-122 assumes potential significance (and therefore may be Register eligible).

Impact: Directly on proposed EMS.

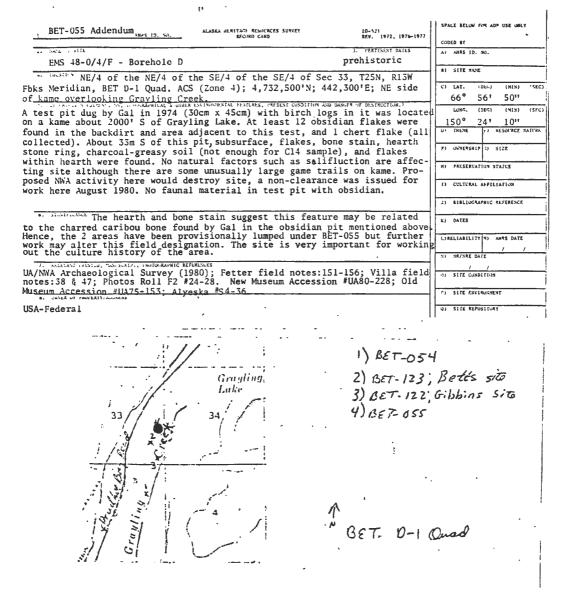
Mitigation: Avoid or test further and assess.

ANG OF SITE     AND A COLOR OF SITE     ADDRESSION FUARED SATES     AND A COLOR OF SITE     ADDRESSION FUARED SATES     ADDRESSION FUARED			
Long of sill     ENS 48-0/2/F; Borehole C Betts Memorial Site     Tentissin Buff     ENS 48-0/2/F; Borehole C Betts Memorial Site     Tentissin Buff     Significance is difficult to assess. As with other kame sites     the area (BET-026, BET-055) it may take extensive testing to locate the     centration of material. In conjunction with the other sites in the Gray-     take/ BIN/er Value however it will aid in delineating past land     the Gray-     the area (BET-026, BET-055) it may take extensive testing to locate the     centration of material. In conjunction with the other sites in the Gray-     take/ BIN/er Value however it will aid in delineating past land     the Gray-     the site of Borchouse     Tentistore     Tentis	1. BET-123 ANRS 1D. NO. ALASKA MERITAGE RESOURCES SURVEY	10-521 359. 1972, 1976-1977	SPACE BELOW FOR ADP USE ONLY
ENS 48-0/2/F; Borehole & Betts Memorial Site       prehistoric         Lundard MEX 0 the NW/4 of the SE/4 of the SE/4 of Sec 33, T2SN, RI3W,       In stream         Startfix that BET D-1 Quad. ACS (Cone 4); 4, 732,000 north, 442,000 east;       In att wat         Startfix that BET D-1 Quad. ACS (Cone 4); 4, 732,000 north, 442,000 east;       In att wat         Startfix that above, a large rhyolite flake was located (subsurface). An 8m x       In att wat         area was tested but nothing else found. Both artifacts collected. Product was instanded admage site, and non-clearance for work this area was issued August 1980.       In antegrad a flakewas harts         *       in stream was tested but nothing else found. Both artifacts collected the contration of material. In conjunction with the other sites in the Gray.       In antegrad afficial attents that         the All Reaction thread attent of material. In conjunction with the other sites in the Gray.       In antegrad afficial entersore         terms and culture history.       In attent thread of the stread in the Gray.         WAA Archaeology Survey (1980); Fetter field notes:147-148; Villa field       In stread was the stread of the			
<ul> <li>Lumino NE/A of the NW/A of the SE/A of the SE/A of Sec 33, 725N, RL3W, s Meridian BET D-1 Quad. ACS (Zone 4): 4,732.000' north, 442,000' east; i side of kame crest above small Lake on NW side of kame. origit located 20 ft. NE of Borchole C. A black chert scraper came out a frost heave, a large rhyolite flake was located (subsurface). An 8m x area was tested but nothing else found. Both artifacts collected. Pro- d NA work in this area would damage site, and non-clearance for work this area was issued August 1980.</li> <li>I correat afficience is difficult to assess. As with other kame sites the area (BET-026, BET-055) it may take extensive testing to locate the centration of material. In conjunction with the other sites in the Gray- g Lake/Jim River Valley however it will aid in delineating past land use terns and culture history. NMA Archaeology Survey (1980); Fetter field notes:147-148; Villa field es:37-38; Nuseum Accession #UA80-227. - Architecture Accession #UA80-227.</li></ul>	•		A) ANRS ID. NO.
s Meridian BET D-1 Quad. ACS (Zone 4); 4,732,000' north, 442,000' east; t side of kame cress above small Lake on NW side of kame. - Bisantho thread 20 ft. NE of Borchole C. A black chert scraper came out a frost heave, a large rhyolite flake was located (subsurface). AN Bm x area was tested but nothing else found. Both artifacts collected. Pro- ed MWA work in this area would damage site, and non-clearance for work this area was issued August 1980. - Maximum Significance is difficult to assess. As with other kame sites the area (BET-026, BET-055) it may take extensive testing to locate the centration of material. In conjunction with the other sites in the Gray- g Lake/Jim River Valley however it will aid in delineating past land use terns and culture history. MA Archaeology Survey (1980); Fetter field notes:147-148; Villa field e: Advised at the constant of the constant of the constant of the state (in ulture, 1980); Fetter field notes:147-148; Villa field e: Advised at the constant of the constant of the constant of the state - Advised at the constant of the constant of the constant of the state - Advised at the constant of the con	EMS 48-0/2/F; Borehole G Betts Memorial Site		B) SITE NAME
Bestering Creating and the second secon	oks Meridian BET D-1 Quad. ACS (Zone 4); 4,732,000' nort	h, 442,000'east;	C) LAT. (DEG) (NIS) "SEC)
A share the area of the first object. "A black control solution of the so	st side of kame crest above small Lake on NW side of ka	me.	66° 56' 45"
a frost heave, a large myolite flake was located (subsurface). At Sm x area was tested but nothing else found. Both artifacts collected. Pro- ed NWA work in this area would damage site, and non-clearance for work this area was issued August 1980.	terial located 20 ft. NE of Borchole C. A black chert	scraper came out	
<ul> <li>Alexander Significance is difficult to assess. As with other kame sites the area (BET-026, BET-055) it may take extensive testing to locate the centration of material. In conjunction with the other sites in the Gray-g Lake/Jun River Valley however it will aid in delineating past land use terns and culture history.</li> <li>NNA Archaeology Survey (1980); Fetter field notes:147-148; Villa field es: 37-38; Museum Accession #UA80-227.</li> <li>Autor Autoson - Federal</li> <li>BET-054</li> <li>BET-054</li> <li>BET-123; Bett's site</li> <li>Site information site site</li> <li>Site information site site</li> </ul>	a frost heave, a large rhyolite flake was located (sub	surface). An 8m x	150° 24' 10"
this area was issued August 1980.	area was tested but nothing else found. Both artifact sed NWA work in this area would damage site, and non-cl	s collected. Pro-	D) INFINE IE) RESOURCE NATURE
<ul> <li>A definition of material. In conjunction with the other sites in the Gray- g Lake/Jim River Valley however it will aid in delineating past land use terns and culture history.</li> <li>MAA Archaeology Survey (1980); Fetter field notes:147-148; Villa field es:37-38; Museum Accession #UA80-227.</li> <li>Anstantin homes and the sites of the delineating past land use to site of our second and the sites of the delineating past land use terns and culture history.</li> <li>MAA Archaeology Survey (1980); Fetter field notes:147-148; Villa field es:37-38; Museum Accession #UA80-227.</li> <li>Anstantin homes and the sites of the delineating past land use to site of our second and the delineating past land use the site of the delineating base is the delineating past land use the site of the delineating base is the delineating past land use the site of the delineating base is the delineating past land use the site of the delineating base is the delineating base</li></ul>	this area was issued August 1980.		F1 OWNERSHIP C) SIZE
<ul> <li>Harris Significance is difficult to assess. As with other kame sites the area (BET-026, BET-055) it may take extensive testing to locate the centration of material. In conjunction with the other sites in the Gray-glack/Jim River Valley however it will aid in delineating past land use terns and culture history.</li> <li>WA Archaeology Survey (1980); Fetter field notes:147-148; Villa field es: 57-38; Museum Accession #UA80-227.</li> <li>Hort of the American Provide Archaeology Survey (1980); Fetter field notes:147-148; Villa field es: 57-38; Museum Accession #UA80-227.</li> <li>Hort of the American Provide Archaeology Survey (1980); Fetter field notes:147-148; Villa field es: 57-38; Museum Accession #UA80-227.</li> <li>Hort of the American Provide Archaeology Survey (1980); Fetter field notes:147-148; Villa field es: 57-38; Museum Accession #UA80-227.</li> <li>Hort of the American Provide Archaeology Survey (1980); Fetter field notes:147-148; Villa field es: 57-38; Museum Accession #UA80-227.</li> <li>Hort of the American Provide Archaeology Survey (1980); Fetter field notes:147-148; Villa field es: 57-38; Museum Accession #UA80-227.</li> <li>Hort of the American Provide Archaeology Survey (1980); Fetter field notes:147-148; Villa field es: 57-38; Museum Accession #UA80-227.</li> <li>Hort of the American Provide Archaeology Survey (1980); Fetter field notes:147-148; Villa field es: 57-38; Museum Accession #UA80-227.</li> <li>J BET-054</li> <li>J BET-054</li> <li>J BET-123; Better site is a field estimation for the American Provide Archaeology Survey (1980); Fetter field estimation for the American Provide Archaeology Survey (1980); Fetter field estimation for the American Provide Archaeology Survey (1980); Fetter field estimation for the American Provide Archaeology Survey (1980); Fetter field estimation for the American Provide Archaeology Survey (1980); Fetter field estimation for the American Provide Archaeology Survey (1980); Fetter field estimation for the American Provide Archaeology Survey (1980);</li></ul>			H) PRESERVATION STATUS
<ul> <li>Identified is difficult to assess. As with other kame sites the area (BET-026, BET-055) it may take extensive testing to locate the centration of material. In conjunction with the other sites in the Gray-glake/Jim River Valley however it will aid in delineating past land use testing to locate the other sites in the Gray-glake/Jim River Valley however it will aid in delineating past land use testing to locate the other sites in the Gray-glake/Jim River Valley however it will aid in delineating past land use testing to locate the other sites in the Gray-glake/Jim River Valley however it will aid in delineating past land use testing to locate the other sites in the Gray-glake/Jim River Valley however it will aid in delineating past land use testing to locate the other sites in the Gray-glake/Jim River Valley however it will aid in delineating past land use testing to locate the other sites in the Gray-glake/Jim River Valley however it will aid in delineating past land use testing to locate the other sites in the Gray-glake/Jim River Valley however it will aid in delineating past land use testing to locate the other sites in the Gray-glake/Jim River Valley however it will aid in delineating past land use testing to locate the other sites in the Gray-glake/Jim River Valley however it will aid in delineating past land use testing to locate the other sites in the Gray-glake/Jim River Valley however it will aid in delineating past land use testing to locate the other sites in the Gray-glaw and the other sites in the other sites in the Gray-glaw and the other sites in the Gray-glaw and the other sites in the</li></ul>			1) CTITURAL AFFILIATION
the area (BET-026, BET-055) it may take extensive testing to locate the centration of material. In conjunction with the other sites in the Gray- glake/Jim River Valley however it will aid in delineating past land use terns and culture history. NNA Archaeology Survey (1980); Fetter field notes:147-148; Villa field es:37-38; Museum Accession #UA80-227. - dented for the Analysis -Federal (irrugling, Luke 33 34 4 1) BET-054 2) BET-123; Bett's site 4) BET-054 33 4) BET-055			J) BIBLEOGRAPHIC REFERENCE
centration of material. In conjunction with the other sites in the Gray- g Lake/Jim River Valley however it will aid in delineating past land use terns and culture history. NWA Archaeology Survey (1980); Fetter field notes:147-148; Villa field es:37-38; Museum Accession #UA80-227. -Federal	the area (BFT-026 BFT-055) it may take extensive test	other kame sites	K) DATES
terns and culture history.       Image: Superior State of the Superior	ncentration of material. In conjunction with the other	sites in the Gray-	LINELIABILITS NO ANNS DATE
NWA Archaeology Survey (1980); Fetter field notes: 147-148; Villa field es: 37-38; Museum Accession #UA80-227. • Site (W1400991 • Site (W140091 • Site (W14009	tterns and culture history.	ting past fand use	NE NY NRE DATE
-Federal $ \begin{array}{c}                                     $	/NWA Archaeology Survey (1980); Fetter field notes:147-	148; Villa field	a y
-Federal 1) BET-054 (irayling, Luke 3) BET-123; Betts ste 3) BET-122; Gibbins Site 4) BET-055			TH STEE FALLS WEEKT
1) BET-054 (irrunling, 2) BET-123; Betts site 3) BET-122; Gibbins Site 4) BET-055		,	L
(irugling, Luke 2) BET-123; Betts ste 3) BET-122; Gibbins Site 4) BET-055	SA-Federal		4) SETE REPOSITORY
State in the second sec	Lake	2) BET-123, 2 3) BET-122, G 4) BET-055	ibbins Site
			•

Significance: Unknown, possibly medium. While the presumed concentration of materials was not located it is believed to exist in situ. In the context of Grayling Lake occupation BET-123 assumes potential significance (and therefore may be Register eligible).

Impact: Directly on proposed EMS.

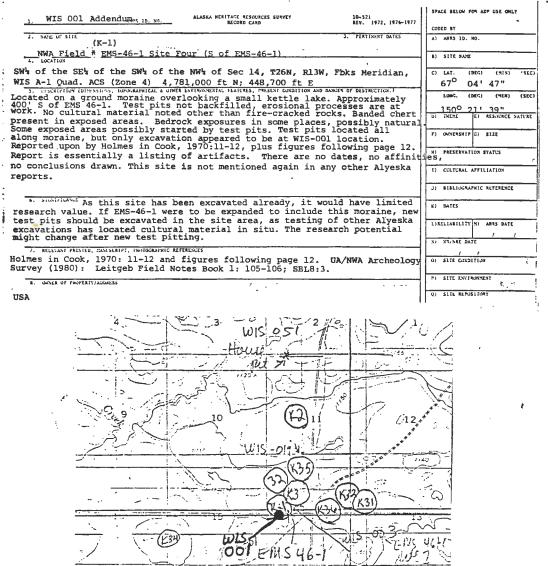
Mitigation: Avoid or test further and assess.



Significance: High. Potential Register eligibility is considered good based upon evidence of human occupation in the form of features and artifacts which are in situ in an interpretable context.

Impact: Directly on proposed EMS.

Mitigation: Avoid or excavate.



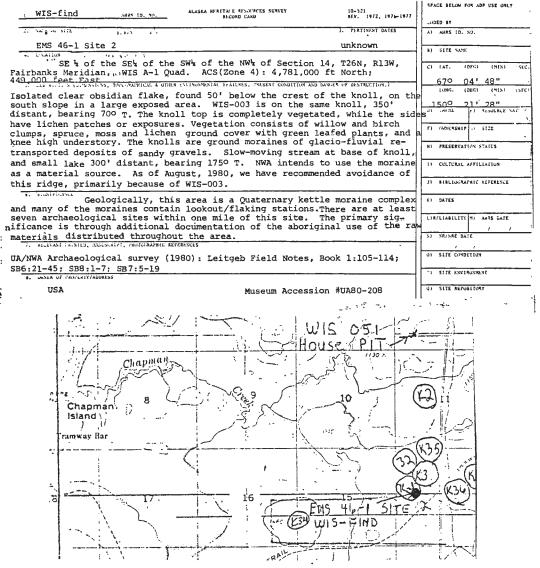
Significance: Low. Previous Alyeska excavation, present erosion and lack of published information limit but do not negate the modest information potential of WIS-001.

FILL

Impact: Directly on proposed EMS.

TP

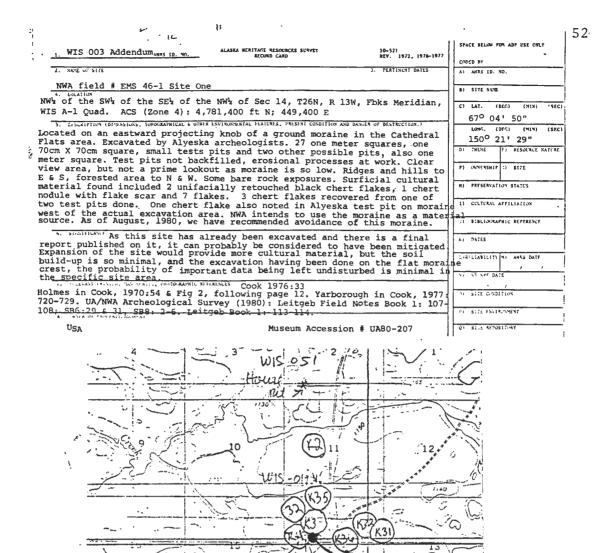
Mitigation: Avoid and backfill Alyeska pits to curtail erosion or salvage.



Significance: Unknown. The isolated find of WIS-Find (46-1 Site 2), an obsidian flake in area largely undisturbed by natural erosion and previous testing suggests unrevealed potential.

Impact: Directly on proposed EMS.

Mitigation: Avoid or test and assess.



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Significance: Low. Previous excavation and publication provides some information on this complex of human activity loci. Some data remain perhaps in situ.

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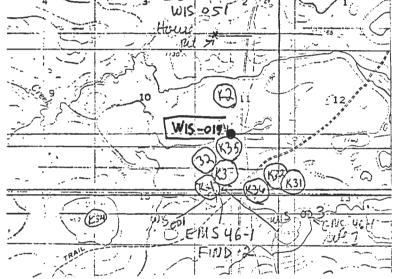
EMS46

Impact: Directly on proposed EMS.

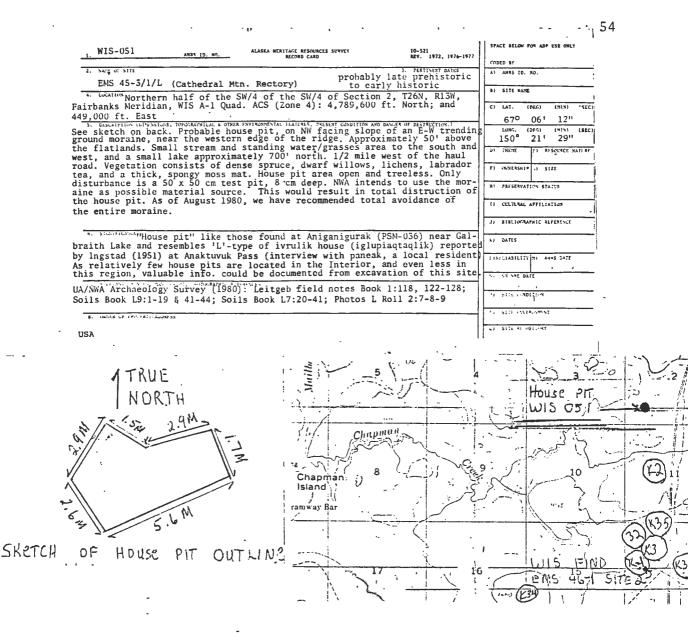
Mitigation: Avoid or salvage.

WIS 019 Addendum was (2. 5).	ALASKA HERITAGE RESOURCES SURVEY RECORD CARD	10-521 REV. 1972, 1976-1977	SPACE BEI	W FOR AD	P USE UNLY	-
. seguestik		3. PERTINENT DATES	A) ANRS	15. 10.		
NWA field # EMS 46-1 site three			8) SITE	NOIE		
North half of the SE4 of the SW4 A-1 Quad. ACS (Zone 4): 4,784,25		bks Meridian, WIS	C) LAT.		(915)	'SEC)
Located on the NE edge of a groun Site excavated by Alyeska. Site	nd moraine in the Cathedra	l Flats area.	LUNG	0 05 (300) 21	(*(2))	(SEC)
flakes were recovered by Alyeska next to Alyeska pit contained 88	. One new 50cm X 50cm test	pit excavated	D) THEM	: EF 1	RESULTCE S	ATURE
on back dirt pile or in old test and one bifacial trimming flake.	pits, including one micro	blade type flake	EL MANE	ISHEP (D)	S (ZE	
moraine is too low for site to be	e prime lookout area. Loca	tion on moraine		WATION ST		
provides dry, flat camping area not backfilled, erosional phenome for a material source. As of Augu	ena is at work. NWA intend	s to use this morainended avoidance	en ceru	RAL AFFIL	NUTAI	
of the moraine			23 BIBL	OGRAPHIC	REFERENCE	
". statifican There is obviously m			NJ DATES	i		
and more raw data could be colle undisturbed areas. At this time, station, which would have limite	it appears that the site d research value. Expansion	the site into the is a lookout/flaking on of the site	LIRELIAS	LITY SD	ANTS DATE	
could change the research potent		-	\$2.587.59	E DATE		
Varborough in Cook, 1977:734. Co UA/NWA Field Notes Leitgeb Book	ok 76:32. Alyeska site sta	tus report.	0) SIFE	CONDUCTION		i
215-19. • OWNER OF PROPERTY ADDRESS	1:109 & 113-114; SBL0:40-4	and 45; SBL/:11-12	r) stre	ENVIRONMES	NT	—
USA	Museum Accesion # U	A80-209	ą) sitė	REPOSITOR	¥	
	3 -0 -0 -2	10 N				ľ

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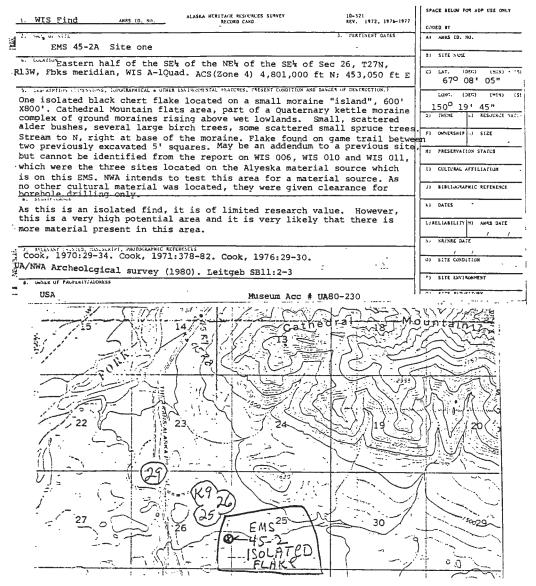
- Significance: Medium. Although tested by Alyeska, our work here revealed substantial in situ materials are present with good potential to reveal information on wider land use activities in this locale. Potential for Register eligibility cannot be discounted.
- Impact: Directly on proposed EMS.
- Mitigation: Avoid and backfill Alyeska pits to curtail erosion or excavate.



Significance: Medium to High. This house pit is undisturbed and affords an unusual opportunity for better understanding prehistoric interior land use. Potential for Register eligibility is considered likely owing to uniqueness and pristine context.

Impact: Directly on proposed EMS.

Mitigation: Avoid or excavate.



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Significance: Unknown. Additional materials are anticipated and Alyeska recorded several sites on this EMS.

Impact: Directly on proposed EMS.

Mitigation: Avoid or test and assess.

WIS-Find (EMS 45-1)

Flake located in rip-rap along access. Non-cultural. Significance: None. The find cannot be considered cultural. Impact: Directly on proposed access to EMS. Mitigation: None WIS-006 (see WIS-Find, EMS 45-2A Site 1)

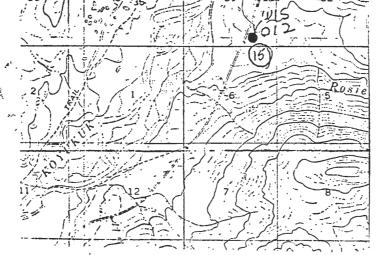
No materials remain.

Significance: None. The site no longer has extant material.

Impact: Directly on proposed EMS.

Mitigation: None

L. WIS 012 Addendum ARRS ID. NO. ALASEA KERITACE RESOLUCES SURVEY, 30-521 RECORD CARD REV. 1970.	-1977 SPACE BELOW FOR ADP USE ONLY
2. NATE 3. PERTINENT DATES	A) ANRS ID. NO.
NWA field $*$ - Milepost 250, AS 44 (Rev 1/4-7-80) - LOCATION NWA of the SWA of the SEA of the SEA of Sec 31, T28N, R12W, Fbk Meridian, WIS A-1 Quad. ACS (Zone 4) 4,826,000N; 462,600E.	B) SITE HAVE C) LAT. (DEC) (NIN) '5 67 ⁰ 12' 12"
. DESCRIPTION IDEALIONS, TOPORAPHICAL CONFIGNED AND FAILURES, MESENT CONDITION AND DANCH OF DESTRUCTION.) Located on a small knob of glacial till approx 100° N of Rosie Creek. Excavation had been dug in 5' squares. Test pits not backfilled, erosic processes are at work. Good view of the Koyukuk Valley on the N through W. E view blocked by trees and mountains. Site is approx 200' E of pipe Intensive visual survey did not reveal any cultural material. This site is approximately 50' outside the proposed NWA centerline corridor. NWA was given clearance for an area from the Alyeska pipeline to 150' E of pipeline. WIS 012 was noted on the clearance form with instructions to avoid the knoll it is on."	LOWG.         (DEG.)         (MILN)         (S)           0) TAL         TSOO 15 1 53"         (S)         (S)         (S)         (S)           0) THEME         (L) KESOURCE XATE         (L) KESOURCE XATE         (L) KESOURCE XATE         (S)         (S)           1         (S) THEME         (L) KESOURCE XATE         (L) KESOURCE XATE         (L) KESOURCE XATE           1         (S) THEME         (L) KESOURCE XATE         (L) KESOURCE XATE         (L) KESOURCE           1         (S) OWNERSHIP         (S) SIZE         (L) KESOURCE         (L) KESOURCE           1         (K) PRESERVATION STATUS         (L) KESOURCE         (L) KESOURCE         (L) KESOURCE
From Gal's report, it would appear that this site was a short term campsite where a few tools were manufactured and used. No features were found. Limited research value, mainly as documentation of the use of the raw materials of the area. 7. HUMAN FREND, RESERVED, PRODUCENT REFERENCE Gal in Cook, 1977:735-746. Cook, 1976:34. UA/NWA Archeological Survey	K) DATES 
(1980): Soils Book L9:30; SBL10:7-8.	P) SITE ENVIRONMENT
35	



Significance: Low. The site probably has no significant additional information to reveal. Published accounts suggest WIS-012 was a small camp site.

Impact: Indirect though near the NWA route.

Mitigation: None (avoid the knoll)

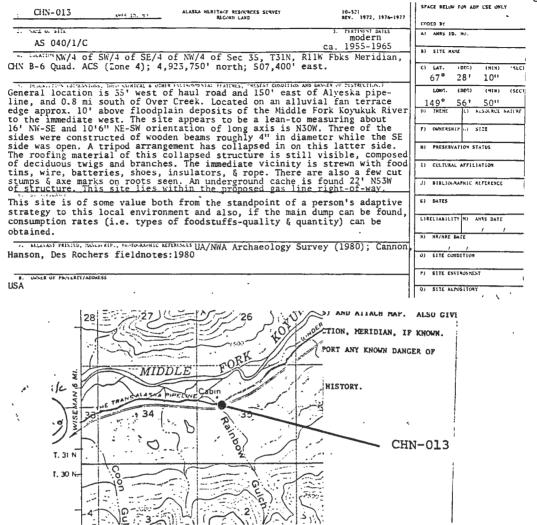
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		-		SPACE BELIN FOR ADD USE ONLY 59
1. WIS-050	ANES ID. NO.	ALASKA HERITAGE RESOURCES SURVEY RECORD CARD	10-521 REV. 1972, 1976-1977	
2. SATE US SETE			3. PERTINENT DATES	CODED RY
	Vinnia Creek (	Gold Mine Shaft	historic	A) ANKS [D. N].
1				B) SETE NAME
NE/4 Of	the NW/4 of the $(7 \text{ or } 4) + 4 \text{ of } 6$	ne NW/4 of Sec 20, T30N, 03,600' north; 492,250' e	RIIW, FDKS Meridian	C) LAT. (DEG) (MIN) -SEC)
bank Minnie Creek.	-			67° 24' 55"
Site consists of a	a mine shaft 8'	deep, 5' square, lined	with logs; related	LONG. (DEG) (MIN) (SEC)
trash such as "Pe:	arl Oil" kerose	ene 5 gal. can; an area l	100-150' from the ea	st 150° 03' 30"
least a 1000' Long	g. The mine sha	ene 5 gal. can; an area 1 rees have been cut down; ift is on the periphery of	of the proposed NWA	D' INCHE F) RESOURCE VATURE
whereas the area	nd as such it i containing the	cut trees will be threat	ened with destructi	P) GASERSHEP (3) SIZE
		ed in the mine shaft and k. The area was cleared		
8/80.			•	13 CULTURAL AFFILIATION
				J) SIBLINGAPHIC REFERENCE
3. Sumericana Doch	abo abofa and	the trace are probably	art of Alaskals	1
gold mining histor	ry, the shaft p	the trees are probably p probably being dug during	the heyday of the	K) DATES
Wiseman mining per	riod.			TIRELIASILLETY NO ANRS DATE
		•		NI SUNNE DATE
7. RELEVANT PRINTED, DOG			20. 22	· · · ·
UA/NWA Archaeolog	ical Survey (19	980); Fetter field notes:	:00-02	OI SITE CONDITION
S. UNITER OF PROPERTY/AUG	455			CI SITE ENVIRONMENT
USA & Wisenak Inc	. Contestants		•	Q) SITE REPOSITORY
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	Minnie	No. In a straight	$\wedge$	5
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		Creek-		
	R. 1			
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	Is S/A	ye		
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	K 1	and the second second		
		e statue	WIS B-1	Quad
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- Significance: Medium. The general area contains several associated historic features relating to mining activities in the area.
- Impact: Indirect though some features lie near the proposed EMS borders.

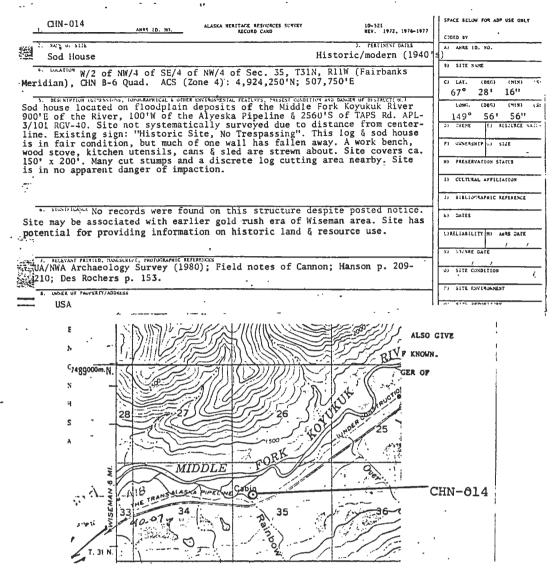
Mitigation: Avoid



Significance: Low. This lean-to is considered modern based upon apparently associated trash. It is not potentially eligible for Register nomination but does possess useful information on land use.

Impact: Directly on proposed EMS.

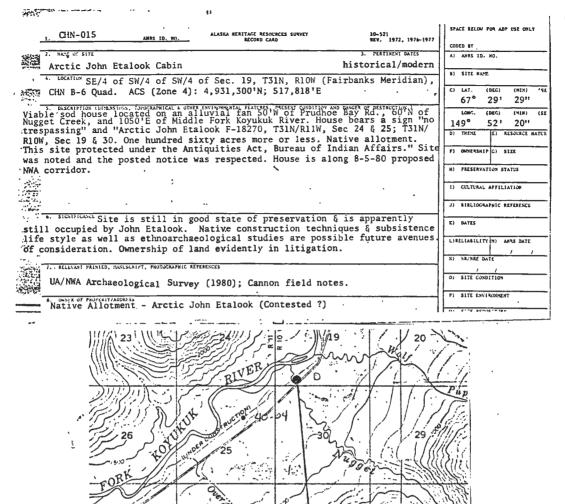
Mitigation: Record fully if this EMS is to be used.



Significance: Medium to High. This sod house and associated refuse and material has potential Register eligibility for the information it contains on traditional and/or mining activities in the area.

Impact: Indirect

Mitigation: Avoid, perhaps post and fence or fully document in case of vandalism.



Significance:	High.	This	cabin	and	l as	ssoci	iated	features	record
	tradit	ional	land	use	in	the	area.	•	

CHN-015

Impact: Directly on proposed (8/5/80) centerline

Mitigation: Avoid and protect area fully.

• CHN-009* 4425 12, 50	ALASKA HERITAAT, RESOURCES SURVEY	10-521 REV. 1972, 1976-1977	SPACE BELOW FOR ADP USE ONLY
(*card 1 of 6)			CODED BY
EMS 39-3/1/F	Gold Creek Cabin 2	J. PERTINENT DATES historic	A) ARRS ID. NO.
	f the SE/4 of the NW/4 of Sec	17. T31N. R10W.	B) SITE MARE
Fbks Meridian; CIN C-6 Quad.	ACS (Zone 4); 4,939,000'N; 52	2,750'E	C) LAT. (DEG) (MIN) 'SEC)
	UTHER ENVIRONMENTAL FEATURES, PRESENT CONDITION AND D		67° 30' 43''
Site is spread out within an	area 1300' long and 900' wide	both north &	LONG. (DEG) (MIN) (SEC) 149° 50' 15"
creek) a 5.7m x 5.3m deterio	the floodplain (between the ol rated log cabin and associated	refuse such as a	D) THENE (c) RESOURCE NATURE
log cabin shaped syrup can (	Log Cabin) and Edgeworth tobac	co tins; five ca.	F) OWNERSHIP () SIZE
an area extending 2500' W of	ting pits used to search for a cabin, 1000' S of cabin where	there were num-	VY OUSERANIY OF SILE
crous cut trees. (The area o floodnlain of Gold Creek). T	f cut trecs & pits extends sou he area was in danger of destr	th beyond the uction because of	N) PRESERVATION STATUS -
a proposed NNA material sour	ce. A non-clearance was issued	to them for this	1) CULTURAL AFFILIATION
area August 1980.			3) RIBLIOGRAPHIC REFERENCE
9. S	· · · · · · · · · · · · · · · · · · ·		NI DATES
These features form part of	the Gold Rush heritage of Alas	ka.	
	•		CORELIANCELTY NO ANRS DATE
J. R-LEIRS PRENTY, LL NERLYC, 1985, BRAPHE	( H. S )		NE NT WAS BASE
UA/NWA Archaeological Survey	(1980): Fetter field notes:15	6-160 & 114-117;	01 SATE CONDITION
Thorsen field notes: 14-17; V 36. Leitgeb field notes: 131-	illa field notes:41-46; Jordan 137, SB 12:1-13; SB 13:1-21 Ph	field notes:29- otos_Roll_F2 =2-20	I STE ENVIRONMENT
3. Unick of trictallyAudates		and F1 #30-3	\$8
USA-Federal			CO SULL OF NUMBER
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Eachs	N	CHN C-6	Quad

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Significance: Medium to High. This cabin, refuse, cut over area, and pits relate to historic mining in the area. As a unit the group of features have significant information to reveal and may be Register eligible.

Impact: Directly on proposed EMS.

Mitigation: Avoid. Complete probing and recording would probably be very costly in terms of time.

.... SPACE BELOW FOR ADP USE UNLY CHN-009* ALASKA HERITAGE RESOURCES SURVEY RECORD CARD 10-521 REV. 1972, 1976-1977 ANTS 10. (*card 2 of 6) CODED BY PERTINENT DATES A) ARRS 10. NO. EMS 39-3/1/F Prospecting Pit 1 . historic B) SITE RAME 4. LOCATION NE/4 of the NE/4 of the SW/4 of Sec 17, T31N, R10W Fbks Meridian, CHN C-6 Quad. ACS (Zone 4); 4,938,750'N; 523,200'E C) LAT. (DEC) (313) SEC) 67° 30' 39" 5. DESCRIPTION TOTIS MINNS, TOPOGRAFRICAL & OTHER ENVIRONMENTAL PLATURES, PRESENT CONDITION AND DAMIER OF DESTRUCTION. LONG. (DEG) 149° 50 (413) (SEC) 50' 05" : See card #1 D) INEME E) RESOURCE MATCH W. Leve F) OWNERSHIP () SIZE ۰., N) PRESERVATION STATUS 1) CULTURAL AFFILIATION J) BIBLIOGRAPHIC REFERENCE SIGNIFICAM K) DATES See card #1 LIRELIABILITY N ANAS DATE 1 7. RELEVANT PRINTED, MAN SURTPE, PROTOGRAPHIC REFERENCES 0) SITE CONDITION See card #1 ۰. TI SITE ENVIRONMENT See card #1 Sila Refestions 37 1CHN-009 2.241-009 3CHN-009 4 CAN-009 2 5 CHN-009 beface find - CHN-010 i ng Strip Cache - (HN-008 "

Cabins

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E.S

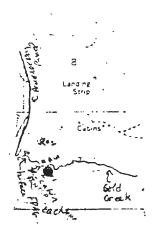
Greek

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cabin - CHN-009

N CHN C-6 Quad

<u>: CHN-009* and 17 50</u> (*card 3 of 6)	ALASKA HERITAGE RESURCES SURVEY Recurd Land	10-521 REV. 1972, 1976-1977	SPACE BELOW FOR ADP USE ONLY CODED BY
1. SAL OF SITE		J. PERTINENT DATES historic	A) ANAS ID. NO.
EMS 39-3/1/F Prospectin to totation NE/4 of the NE/4 of			B) SETE SAME
N C-6 Quad. ACS (Zone 4); 4,	938,800'N; 523,000'E		C) LAT. (DEG) (NIN) (SFC) 67° 301 40"
See card #1	A ENTRONYMAL FRATERES, AREENT CONDITION	AND DANGER OF DESTRUCTION.)	LONG. (DEG) (MEN) (SEC) 149° 50' 10" DJ TAEME EJ RESOURCE SATCRE
			F) UGNERSH(P=1) SIZE H) PRESERVATION STATUS
			1) CULTURAL AFFILIATION
			J) BIBLIDGRAPHIC REFERENCE
e. assisteticance			X) DATES
See card #1			LIRFLIABILITY MI ANNS DATE
A. ALLEVANT FRINTED, MANLSCHIPT, PROTOGRAPHIC R	FERENCES		• • • • • •
See card #1			0) SITE CONDITION
8. OWNER OF PROPERTY/ADDRESS		·····	P) SITE ENVIRONMENT
See card #1		· ·	U SLIE KEINSLÄIKI



1CHN-009 2CHN-009 3CHN-009 4CHN-009 5CHN-009

beface find - (HN-010 Cache - (HN-00B Cabin - (HN-009

N CHN C-6 Quad

1. CHN-009*     AMARK ID. NO.     ALASEA RERITAGE RESOURCES SURVEY     10-521 REV. 1972, 1974-197       (*card 4 of 6)     3. FREE NOTED DATES     3. FREE NEW DATES       2. Nate with     Sign 39-3/1/F     Prospecting Pit 3	SPACE BELOW FOR ADP USE ONLY CODED BY A) ANRS 10. NO.
EMS 53-571/F Prospecting Fit 5 historic Lucation SE/4 of the SE/4 of the NW/4 of Sec 17, T31N, R10W Fbks Meridian CHN C-6 Quad. ACS (Zone 4); 4,939,250'N; 529,000'E 3. DESCRIPTION (BI-9:NSIDAX, TOPO: ADMICAL & OTHER ENVIRONMENTAL PLATCHES, PHYSINT CONDITION AND DAMER OF DESTRUCTION.) See card #1	a)         SITE NOT           c)         LAT.         (DEC)         (NIN)         'SEC)           67°         30°         44"           LONG.         (DEC)         (MIN)         (SEC)           149°         50°         10"         DI           DI         THENE         L1         ALSOURCE NATION           F)         OWNERSHIP         SIZE         H)           H)         PRESERVATION STATUS         TATUS           L)         CULTURAL AFFILICATION         J)         BIBLIONARMIC REFERENCE
See card #1  . Million PRIND, DO SCRIFT, PROTO-MAPRIC REFERENCES See card #1	E) DATES         I           I ) RELIASILITE (1) ARKS DATE         I           V) NT. NEE DATE         I           V) NT. NEE DATE         I           V) ST. NEE DATE         I           V) ST. NEE DATE         I
See card #1	DI SITE ENVIRONMENT

Stric ĉ... Geld Græk :

C

1CHN-009 2 CHN-009 3 CHN-009 4 CHN-009 5 CHN-009 balace find - (HN-010 Cache - (HN - 00B Cabin - (HN - 009

N CHN C-6 Quad

<u>1. CHN-009* ANRS ID. NO.</u> (*card 5_of 6)	ALASKA HERITAGE RESOURCES SURVEY Record Card	10-521 REV. 1972, 1976-1977	SPACE BELOW FOR ADP USE ONLY CODED BY
2. XAUE OF SITE	a Dit 4	J. FERTIMENT DATES historic	A) ANRS LD. NO.
EMS 39-3/1/F Prospectin 4. LOCATION SE/4 of the NE/4 of			8) SITE NAME
CHN C-6 Quad. ACS (Zone 4); 4	,940,500'N; 523,000'E	······	C) LAT. (DEG) (HIN) 'SEC) 67° 30' 52"
5. DESCRIPTION (DISENSIONS, TOPOGRAPHICAL & OTH	ER ENVIRONMENTAL FEATURES, PRESENT CUNDITION A	NO DANGER OF DESTRUCTION.	LONG. (DEG) (MIN) (SEC)
See card #1			149° 50' 10" D) THENE (E) RESOURCE NATURE
		·	F) OWNERSHEP C) SIZE
•			W) PRESERVATION STATUS
			1) CULTURAL AFFILIATION
6. SIGHTUANUR			J) SIBLIOGRAPHIC REFERENCE
See card #1			K) DATES'-
			L)RELIABILITY N) ANYS DATE
7. RELEVANT PRINTED, MANUSLRIPT, PROTOGRAPHIC R	EFERENCES	· · · · · · · · · · · · · · · · · · ·	- <u> </u>
See card #1			0) SITE CONDITION
8. UNNER OF PROPERTY/ADDRESS	• •	· · · · · · · · · · · · · · · · · · ·	P) SITE ENVIRONMENT
See card #1			Q) SITE KEPOSITONY
		10 HAL-MAG	- 1
_		1CHN-009 ZCHN-009	1
24		3 5HN- 009	l t



U

4 CAN-009 5 CHN-009 beface find - CHN-010 Cache - CHN-008 Cabin - CHN-009

N CHN C-6 Quad

CHN-009* AMR5 ID. NO AT	LASKA HERITAGE REGOURCES SURVEY Record Card	10-521 REV. 1972, 1976-1977	CODED BY	W FOR ADP	USE ONLY	•
EMS 39-3/1/F Prospecting Pi	t 5 ·	J. PERTINENT DATES	AJ ARRS			
The Artist SW/4 of the NE/4 of the CHN C-6 Quad. ACS (Zone 4); 4,940,	NW/4 of Sec 17, T31N, 500'N; 522,900'E	R10W Fbks Meridian,	E) SITE :	(DFG)	(313)	· 5E
5. DESCRIPTION COMPANYINS, CONSTRUCTE & OTHER ENVI	KONTENTIAL FRATURES, PRESENT CONDITION A	NU DANGER OF DESTRUCTION.)	67° LONG. 149°	301 (NEG) 501	52" (***) 15"	
See card #1				L) RE		ATUR
				AL AFFILIA		_
See card #1			K) DATES	TTY N) AN	S DATE	
7. RELEVANT PRINTER, MANISCRIPT, PHOTOGRAPHIC REFERENC	ES	· · · · · · · · · · · · · · · · · · ·	N) ST/NR		. ,	
See card #1		•	O) SITE	CONDITION		
See card #1	•		Q) SITE	LEPUSI FORY		 -

Stru Cacins Gold Greek

1CHN-009 ZCHN-009 3 CHN-009 4 CHN-009 5 CHN-009 beface find . CHN-010 Cache - (HN - 008 Cabin - (HN - 009 N CHN C-6 Quad

, 68

1. CHN-008 ANRS 1D. NO.	ALASKA HERITAGE RESOURCES SURVEY Record Caro	10-521 BEV. 1972, 1976-1977	SPACE BELOW FOR ADP USE ONLY : (
2. SANG OF SITE		3. PERTINENT DATES	A) ANRS 10. NO
EMS 39-3/3/F - Cache . wearing SE/4 of the NW/4 of th			B) SITE NOT
CHN C-6 Quad. ACS (Zone 4); 4,93	9,000' North; 522,250' East		C) LAT. (DEG) (MIN) (SEC) 67° 30' 42"
3. Execution of the second sec	idhoe Bay haul road. It had a ting within revealed a soil s	i moss berm similar to the	LONG. (DEG) (418) (SEC) 149° 50° 30" D) THENE E) RESURCE NATLAE
surrounding soil with bits of characteristic was also found within this area.	arcoal and rich black color.	A buried log	F) OWNERSHIP () SIZE
			H) PRESERVATION STATUS
			1) COLTURAL AFFILIATION
			3)_ BIBLIOGRAPHIC REFERENCE
It is difficult to determine if		or historic	K) DATES .
and related to the mining activi	ty in the area.		UNELIABILITY N) ANS DATE
7. RELEVANT PRINTED, TWOLSLATET, MOTOGRAPHIC REF	RENCES	· · · · · · · · · · · · · · · · · · ·	N) NR/NRE DATE
· UA/NWA Archaeology Survey (1980)		135-137	0) SITE CONDITION
8. OWNER OF PROPERTY ADDRESS	· · · · · · · · · · · · · · · · · · ·		P) SITE ENVIRONMENT
USA-Federal			() SITE REPOSITORY
	* * **		1
		HN-009	7 5
· · · ·		CHN-009	t
in the second	-	CHN-009	1
187 8		14N-009 CHN-009	
Land.r	2		
	· · ·	reface find . c	
7		ache = CHN -	
to a set of the set	cins** *<	tin - CHN	- 009
	fild . A		
		CHN C-L	. Quad

Significance: Unknown. This is probably a cultural feature and requires further testing to assess.

Impact: Directly on a proposed EMS.

Mitigation: Avoid or test and assess.

1 CHN-010 AHRS 1D. NO.	ALASKA HERITAGE RESOURCES SURVEY Recurd Card	10-521 NEV. 1972, 1976-1977	SPACE BELOW FOR ADP USE ONLY
2. NATE U. SITE		1. PERTIMENT DATES	AJ ANRS ID. NJ.
EMS 39-3/2/F - Find Locat . LOCATION SW/4 of the SW/4 of		*	B) SITE NAME
C-6 Quad. ACS (Zone 4); 4,9 eck terrace, 150' east of Pru	39,500' north; 521,750' eas Idhoe Bay haul road.	t; N bank Gold	C) LAT. (DEG) (NIN) 'SEC 67° 30' 47''
<ol> <li>EAST PERSON OF THE STORY OF THE</li></ol>	on the downslope outwash (T	orth bank) of an	B/         SU         47           LONG.         (DEC)         (MEN)         (SEC)           149°         50'         42''           D)         THEME         E)         RESOURCE NATION
biface frag. and Gal's repo different parts of the Alyes	ort (1974 field notes) of fi ska material source (CHN-005	nding two flakes , CHN-006) suggest	F) OWNERSHIP () SIZE
presence of a site; but who	ose limits are as yet unknow	n.	H) PRESERVATION STATUS
			D CULTURAL APPILIATION
			J) BIBLIOGRAPHIC REFERENCE
• sustricate e provenience of the biface f	fragment is questionable due	to downslope	K) DATES
ep.		· - •	LIRELIABILITY 4) ANRS DATE
			S) SR/SRE DATE
NWA Archaeology Survey (193 ald notes:46; Jordan field no . OALE OF PROFENT/ADDAESS A-Federal	u); retter field notes:160 ( otes:29 & 36; Museum Accessi	on #UA80-226.	0) SITE CONDITION F) SITE EXVIRUNMENT Q) SITE REPASE TORY
417. ¹⁰ .		· ·	• •
	• •• •	· · · · · · · · · · · · · · · · · · ·	
•		1CHN-009	
		ICHNENNG	•
· · · ·		2 CHN - 009	₽ 
Party		3CHN-009	
1 June Bris	الى . 1 يا يە	3 CHN- 009 4 CAN- 009	
A Lan	i . 3 <u>i</u> . 1ding . Strip .	3 <i>CHN-009</i> 4 <i>CHN-009</i> 5 CHN-009	
Lan	l i I i	3 CHN - 009 4 CAN - 009 5 CHN - 009 beface find - C	
Lan	l i I i	3 CHN - 009 4 CAN - 009 5 CHN - 009 beface find - C Cache - CHN -	008
Lan	l i I i	3 CHN - 009 4 CAN - 009 5 CHN - 009 beface find - C	008
	l i I i	3 CHN - 009 4 CAN - 009 5 CHN - 009 beface find - C Cache - CHN -	008
Lan	l i I i	3 CHN - 009 4 CAN - 009 5 CHN - 009 beface find - C Cache - CHN -	008

Significance: Unknown. Potential for a concentration of materials on the EMS is considered good based on the 1980 find and previous Alyeska finds here.

¢.

Impact: Directly on a proposed EMS.

Mitigation: Avoid or test and assess.

This site is representative of an early modern prospector's bor miner's home, and may shed light in related land/resource use of that	and the second	**		
Cold Creek Cabin     Cold Creek Cabin     Construction     Constructi	1. CHN-007 AHRS TO, NO.	ALASKA HERITAGE RESOURCES SURVEY	10-521	SPACE BELOW FOR ADP USE OWLT
Bistoric/modern         Instantion of the second of the secon		SCORP CINE		
- usating Between NV/4 and SW/4 of SE/4 of NE/4 of Sec 18, T3IN, RIOW     (Fairbanks Meridian), GIN C-6 Quad. ACS (Zone 4): 4,339,800'N; 520,000'E     (att tear) that set the set of	2343			A) ANRS ID. NO.
Detreen nov. and solve of guad. Act Store 4, 353; 6001, 520,0001 The autorium intervent parameter, and private intervent parameter and solve and	· · · · · · · · · · · · · · · · · · ·			B) SITE NAME
T addition of the set		of SE/4 of NE/4 of Sec 18	, T31N, R10W	
The subset of the second secon			1	
of Haul Rd., and 950°E of confluence of Gold Creek and Middle Fork Koyukit hiver. Door on end, long axis of house 525%. One window centrally located in rear wall. Sod roofing. 2"x 8" floor planks. Center celling height 6'6'. Store je in celling. Remnants of 2 bed frames within 6 along with sheling 6 a table in good condition. Associated refuse dump covered by flaul Rd. Site sit- in roof. Except for dump, site was avoided during pipeline construction 6 thould be avoided in the future. Earliest name carved in cabin is Reed Kelley in miner's home, and may shed light in related land/resource use of that period.       If Witthat Affiliation in the state of an early modern prospector's remnants for the state of an early modern prospector's remnants home, and may shed light in related land/resource use of that period.         Interverties: WAWA Archaeology Survey (1980); Field notes of Cannon; Hanson p. 204- in the state of the state of the state of the state of the state of the state of the state in the state of the state in the state of the state of the state of the state of the state of the state in the state	5. DESCRIPTION (DISPNSIONS, TOPOGRAPHICAL & OTHER	ENVIRONMENTAL FEATURES, PRESENT CONDITION AND	DANGER OF DESTRUCTION.)	
<pre>Siver. Door on end, long axis of house S25W. One window centrally located in tear wall. Sod roofing. 2"x 8" floor planks. Center ceiling hoight 6'6". Store ip in ceiling. Remnants of 2 bed frames within 6 along with shelving 6 a table in good condition. Associated refuse dump covered by Haul Rd. Site sit- nated on a large alluvial fan truncated by Gold Creek. Cabin is within 150°E for proposed NWA centerline 6 is structurally sound with only a small (4") Creat in roof. Except for dump, site was avoided during pipeline construction 6 should be avoided in the future. Earliest name carved in cabin is Reed Kelley lan. 19, 1946.</pre>	of Haul Rd., and 950'E of conflue	nce of Gold Creek and Midd	le Fork Koyukuk	
<pre>bipe in ceiling. Remaints of 2 bed frames within 6 along with shelving 6 a cable in good condition. Associated refused dump covered by Haul Rd. Site sit- nated on a large alluvial fan truncated by Gold Creek. Cabin is within 150°E for proposed NWA centerline 6 is structurally sound with only a small (4") Creat bould be avoided in the future. Earliest name carved in cabin is Reed Kelley fam. 19. 1946. ************************************</pre>	River, Door on end, long axis of	house S25W. One window cen	trally located in	
Allo in control condition. Associated refuse a dump covered by flau Rd. Site site ated on a large alluvial fan truncated by Gold Creck. Cabin is within 150°E if proposed NWC centerline § is structurally sound with only a small (4") crack affiliation in root. Except for dump, site was avoided during pipeline construction § the during is evolved in the future. Earliest name carved in cabin is Reed Kelley in the future. Earliest name carved in cabin is Reed Kelley in the future. Earliest name carved in cabin is Reed Kelley in the future. Earliest name carved in cabin is Reed Kelley in the future. Earliest name carved in cabin is Reed Kelley in the future. Earliest name carved in cabin is Reed Kelley in the future. Earliest name carved in cabin is Reed Kelley in the set and in the future. Earliest name carved in cabin is Reed Kelley in the set and in the future. Earliest name carved in cabin is Reed Kelley in the set and in the future. Earliest name carved is cabin is Reed Kelley in the set and in the future. Earliest name carved in cabin is Reed Kelley in the set and in the future. Earliest name carved is cabin is Reed Kelley in the set and in the future. Earliest name carved is cabin is Reed Kelley in the set and in	rear wall. Sod roofing. 2"x 8" fl	oor planks. Center ceiling	height 6'6". Stove	EL CONFRONTE CA. ST.T.E.
<pre>inited on a large alluvial fan truncated by Gold Creek. Cabin is witchin 150'E forpoposed NMA centerline &amp; is structurally sound with only a small (4") creat in root. Except for dump, site was avoided during pipeline construction &amp; bould be avoided in the future. Earliest name carved in cabin is Reed Kelley fam. 19. 1946. ************************************</pre>	table in good condition. Associat	ed refuse dump covered by	Haul Rd. Site sit-	
In roof. Except for dump, site was avoided during pipeline construction 6 should be avoided in the future. Earliest name carved in cabin is Reed Kelley an. 19, 1946. This site is representative of an early modern prospector's pr miner's home, and may shed light in related land/resource use of that period. The construct This is, non-strict memory (1980); Field notes of Cannon; Hanson p. 204- 207; Dos Rochers p. 145-149. Gal 74-3/91-92. The construct This construct Description of the construction of	uated on a large alluvial fan tru	incated by Gold Creek. Cabi	n is within 150'E	H) PRESERVATION STATUS
In 1007. Except for damp, site was avoided uning piperine constitution of the future. Earliest name carved in cabin is Reed Kelley in the future. Earliest name carved in cabin is Reed Kelley in this site is representative of an early modern prospector's presentative of an early modern prospector's numer's home, and may shed light in related land/resource use of that infinite treaser in an any shed light in related land/resource use of that infinite treaser in an any shed light in related land/resource use of that infinite treaser in an any shed light in related land/resource use of that infinite treaser infi	of proposed NWA centerline & is s	tructurally sound with only	y a small (4") crac	1) CULTURAL AFFILIATION
Jan. 19. 1946.				
Dr miner's home, and may shed light in related land/resource use of that period.          Interior Highler, monosubsid Highler, monosubsi	Jan. 19, 1946.	-		J) BIBLIOGRAPHIC REFERENCE
August Hishib, Rokader, Monoward Herenhaed DA/NWA Archaeology Survey (1980); Field notes of Cannon; Hanson p. 204- 207; Des Rochers p. 145-149. Gal 74-3/91-92. There will differ the second	. and This site is repres	entative of an early moder	n prospector's	KJ DATES
7. Archiver Faisher, Fischer, Formandel Structure (1980); Field notes of Cannon; Hanson p. 204- 207; Des Rochers p. 145-149. Gal 74-3/91-92.     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11<		int in related land/resourc	e use or that	
Anisher Histord, Tablandick, Parindhard         UA/NMA Archaeology Survey (1980); Field notes of Cannon; Hanson p. 204- 207; Des Rochers p. 145-149. Gal 74-3/91-92.         I. UNING or Cabriel' (ADURANCE)         III III IIII (ADURANCE)         IIII IIIII (ADURANCE)         IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII				
UA/NRA Archaeology Survey (1980); Field notes of Cannon; Hanson p. 204- 207; Des Rochers p. 145-149. Gal 74-3/91-92.				
207; Des Rochers p. 145-149. Gal 74-3/91-92.	UA/NWA Archaeology Survey (1	980): Field notes of Canno	n: Hanson p. 204-	· · ·
L UNAL OF ADPLET, ADPLAS	207; Des Rochers p. 145-149.	Gal 74-3/91-92.	,	5) SITE CONDITION
T T T T T T T T T T T T T T	B. UNALA UF PROPERTY ADDRESS			Ty SITE FAVLAUNMENT
T T T T T T T T T T T T T T				
CHN-007	24 112 12 12 12 12 12 12 12 12 12 12 12 12	19 Sheep (Creek 20	ding Strip Cabina	
		CHN-00	7	

Significance: Medium to High. This still viable cabin may have late historic information to offer.

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Impact: Indirect but near proposed centerline.

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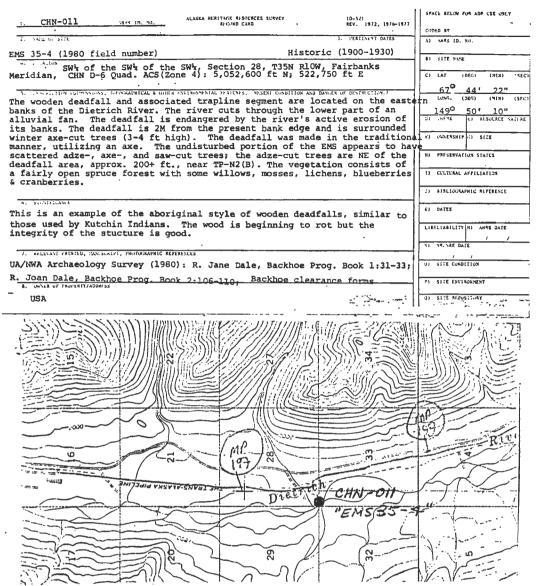
Mitigation: Avoid, maintain? CHN-Find/Wood (EMS 36-5)

Frozen wood sample, 8 feet deep in organic layer at EMS 36-5 backhoe trench. Non-cultural.

Significance: None. There is no evidence this wood is associated with human activities.

Impact: Directly on proposed EMS.

Mitigation: None



Significance: Medium. Early trapping activities may be relatable to known natives and to material culture associated with traditional activities in the area. Potential eligibility of this behavioral complex for nomination to the National Register should be considered.

Impact: Directly on proposed EMS.

Mitigation: Avoid or document and record fully.

,	1. CHN-012	ANRS 10. 50.	ALASKA NERITAGE RESOURCES SURVEY RECORD CARD	10-521 NEV. 1972, 1976-1977	CODED BY
·	2. NAUL OF SITE			3. PERTINENT DATES	A) AHRS ID. NO.
;	EMS 36-3 (1980 field	l number)	<u> </u>	Possibly Prehistoric	B) STTE HAME
	Border of	SEL & NEL, Meridian.	border of NE ¹ & SE ¹ of CHN D-6 Quad. ACS(Zone	the NW4, Section 15 4): 5,035,750 ft N,	C) LAT. (DEG) (NIX) 'SEC)
	5. DESCRIPTION (DIDDANIONS, 10		ENVIRONMENTAL FEATURES, PRESENT CONDITIO		67° 46° 37"
	the possible house pi the summit, with no s	t is on the surficial in	"southern" side of a k dication of this featur , blueberries & cranber	noll just downslope o: e. The ground cover	149° 47' 10"
	consists of mosses, 1 willows. Wood fragme	abrador tea	, blueberries & cranber countered in the semi-f	ries with spruce &	D) THEME E) RESOURCE NATURE
-	beneath the sod and a One caribou bone grag	re also app ., a right,	arent in the permafrost distal humeral frag.,	zone, 12-15" down. was the only potentia	
١.	faunal/artifactual re	main encour	tered. Three parallel ch may be possible stru	log fragments were	N) PRESERVATION STATUS
ŧ		· ••••••	on may be possible sets	course memorrow .	-1) CULTURAL AFFILIATION
1	•		<u> </u>	· · · · · · · · · · · · · · · · · · ·	J) BIBLIOGRARHIC REFERENCE
	The significance is u		s the feature was encou		E) DATES
	monitoring, further t can be made.	esting is r	ecommended before posit	ive determination	LIRELIABILETY H) ANRS DATE
	_				N) NR/NRE DATE
	UA/NWA Archaeology Su			Prog Book 2.104	0) SITE CONDITION
	Backhoe Clearance for	ms; Accessi	: R. Joan Dale, Backhoe on Number: UA80-251	1109. DOX 1.104)	P) SITE ENVIRONMENT
÷	- USA		•		
					Q) SITE REPOSITORY
•	······				
		Sold Sold			
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	TO STONE				
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		enk	E-115-36-8		
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		Mart-			
			River		Contraction of the second seco
		The second second	Mar P	1 /0-1/	
		AA			
			7		
					A COMPANY AND AND AND A COMPANY

Significance: Unknown, possibly medium to high. This site may prove to be a (prehistoric?) traditional structure with associate refuse, etc.

Impact: Directly on proposed EMS.

Mitigation: Avoid or test and assess.

CHN-Find (NWA MP 194 - AS 035)

Neck of a glass bottle associated with a modern (pipeline construction?) hearth.

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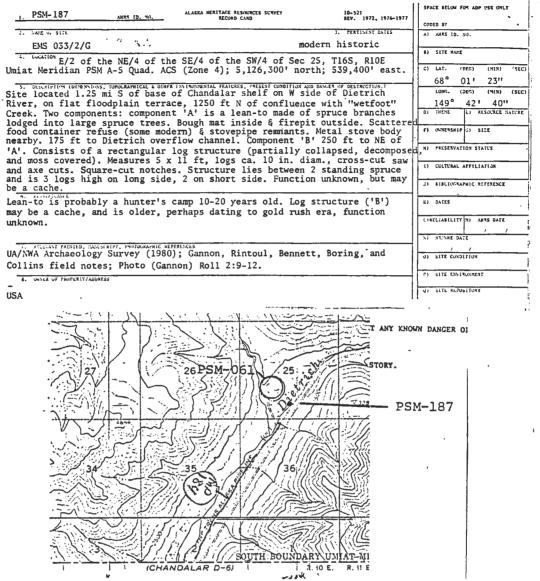
Significance:	None. These finds are modern.
Impact:	Directly on proposed centerline.
Mitigation:	None

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V PSM-188 AN75	ALASKA HENITAGE RESOURCES SURVEY	10-521	SPACE BELOW FOR ADP USE ONLY
AS 033/3/G	13. RECORD CARD	92, 1972, 1976-1977 J. PERTINENT DATES modern	CODED BY A) ANRS ID. NO.
the lies ca. 1.25 mis iver on flat floodplat f "wetfoot" creek. Pro- f a rectilinear config tones nearby appear pu -1/2 x 3 inches are on	SE/4 of the SE/4 of the SW/4 of S Quad. ACS (Zone 4); 5,126,000' r MICAL + OTHER ENTENDED ALL PLATERS, PERSIST CONDITION Outh of base of Chandalar shelf of n, 100 ft from river, and ca. 750 posed Borehole 33-31 ca. 39 ft to uration of fallen/cut logs and por rposely placed. Five cut & stacks a log pallet within confines of 16 x 16 ft. Many cut trees (buck n.	Sec 25, T165, R10E north, 539,100' east AND DAVEL OF DESTRUCTION.) On W side of Dietrich O ft N of confluence o east. Site consists oles. Several large ed spruce poles ca. configuration.	b)         SITE HORE           C)         LAT.         (DEC)         (NIN)         'SEC           68         01         17''         LONG.         (DET)         (NIN)         'SEC           149         42'         52''         O         THENE         E)         RESOURCE NATIVE           0)         THENE         E)         RESOURCE NATIVE         NATIVE           H)         PRESERVATION STATES         D)         CULTURAL APPLICATION
ssociated with stockpi verall significance is A/NWA Archaeology Surv		ructural enterprise.	J) BIBLINGAPHIC REFERENCE K) DATES L)AFLIABILITY N) ANRS DATE (N) NATURE DATE (N) SITE CODITION
SA	26 PSM-061 25 000 35 35 36	X 3266	P) SITE EXPLANENT 9. SITE REPORTING PANGER OF 1-188

Significance: Low to none. Modern feature of unknown function. Impact: Directly in proposed centerline.

Mitigation: None



Significance: Low. The historic component consists of a possible log cache. No further associations were identified. The information potential is considered modest. Register eligibility is unlikely.

Impact: Directly on proposed EMS.

Mitigation: Avoid or salvage.

## PSM-061 (see PSM-187)

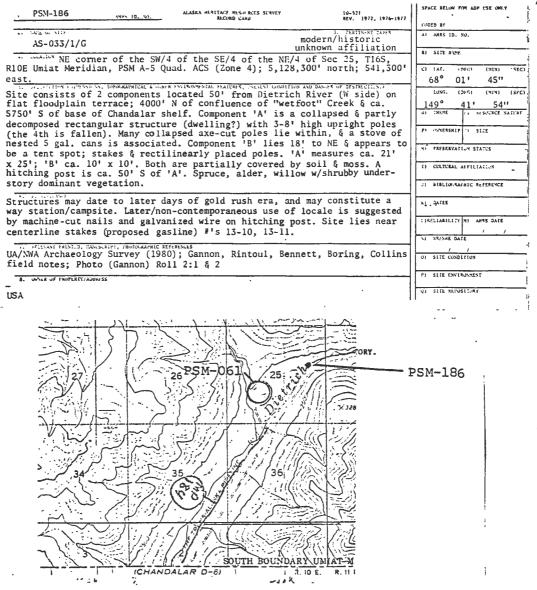
¢

No materials remain on EMS 33-1.

Significance: None. No materials from this site remain.

Impact: Directly on proposed EMS.

Mitigation: None



14

Significance: Unknown, possibly medium or high. The historic structures may relate significant information.

Impact: Directly on proposed EMS.

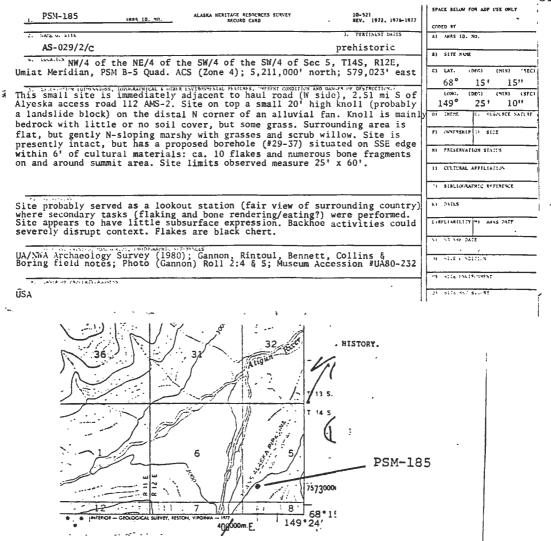
Mitigation: Avoid or test and assess.

0	
1. PSM-find ARRS 19, 20. ALASKA HERITAGE RESOURCES 1 NECURD CARD	SURVEY 10-521 BEV. 1972, 1976-1977 CODED BY
2. NATE UT SITE	3. PERTINENT DATES A) ARRS 1D. NO.
EMS 30-1	Unknown
4. LOCATION SW's of the SE's of the NE's Section 20	B) SITE HAME
SW% of the SE% of the NE% Section 20 PSM A-4 Quad. ACS (Zone 4): 5,197,500 ft. N;	582,590 ft. E. (DEG) (NIN) (SEC)
5. DESCRIPTION IDIPENSIONS, TOPOGRAPHICAL & OTHER ENVIRONMENTAL FEATURES, DRESE	ST CONDITION AND DANGER OF DESTRUCTION.) - 68° 13" 02" LONG. (DFC) (NIN) (SEC)
This isolated find is a chi-tho-tablular bou bifacial working. The artifact also shows b The area where the "chi-tho" was found is an location was twenty-five feet south and slig area (between N4(D) and N5(E)) is an extant which is near the edge of an existing (activ	Ider frag ment with bipolar,     149° 23' 30"       attering along worked edge.     D) THEME       alluvial fan. Its exact     P) THEME       htly east of N4(D). This     P) ONVERSHIP       seasonal river channel,     P) GRAVEL pit.
	1) CULTURAL APPILIATION
n, studtickur	K) DATES
The significance of this isolated find is un location and lack of provenience.	ale Book 2: 1-2.; Backhoe
Program Clearance forms. Accession Number:	UA80-249 Gannon 1980 field
8. INTER IT CANTERIES ANDRESS	notes
U.S.A.	Q1 5172 4EPUS. 1. 47
CHI-THO'ZO N EMS-30-1 Haul Road	9 var el vile 9 var el vile 9 var et vile 10 c tracking 10 c t

Significance: None. The isolated find cannot be interpreted.

Impact: Directly on proposed EMS.

Mitigation: None



11

Significance: Low to medium. This small locus of stone and bone material represents a lookout. Information of interest to past land use activities is present though probably is insufficient to warrant Register eligibility.

Impact: Directly on proposed EMS.

Mitigation: Avoid or salvage.

1. PSM-194 ARRS 10. 10.	ALASKA HERITAGE RESOURCES SURVEY	10-521 REV. 1972, 1974-1977	SPACE BELUW FOR ADP USE ONLY
2. SATE of Sile		possible Nunamuit	CODED BY
AS 029/1/C	/4 of NW/4 of Sec 28, T135	late? prehistoric	a) SETE NUE
PSM B-4 Quad. ACS (Zone 4);			C) LAT. (9E4) (NIS) (SEC)
General location is at 70's Greek. This site consists of spaced 12' apart (center to granular alluvial fan origin Mts. to the east. These two runoff (ephemeral) to the in the surface inside one of th two in side one of the tent vicinity near the rings. One	two stone tent rings, app center) on a broad relativ ating from the northern ex tent rings are on a small mediate east and SE. A car he tent rings. Five test pi rings while the other thre test pit located 5' south	rox. 7' in diameter, ely flat poorly draine tension of Philip Smit elevated mound with ibou ulna is found on ts were excavated; e were placed in the of possible entrance	LONG. (DEG.) (MINI (SEC) 149° 21' 52" D) THEME (2) RESOURCE SATURE
to tent ring contained conce epiphyses. This was mapped a	ntration of caribou ribs, nd left in situ.	vertebra, scapula, &	J) BIBLIOGRAPHIC REFERENCE
selective testing was perfor bones in association with te about aboriginal adaptation	nt rings, offer good poten and resource utilization.	minimized. The Caribou tial to learn more	NJ DATES
notes of Cannon; Hanson: ] Miller:60-61, 65-66; Des Roc	C REFERENCES UA/NWA Archaeology 39-141, 152-153; Alloway:B chers:99-102, 110-111; Muse	Survey (1980); Field ook II:6-7, 12-14; um Accession #UA80- 241	/ / 01 SITE CONDITION
4. OWNER OF PROPERTY ADDRESS			Q) SITE REPUSITORY
11-2	28	PSM-	LOT AND .
	K TICTER	TION, MERIDIAN, IF KNO	WN.,

ANY KNOWN DANGER OF

ISTORY.

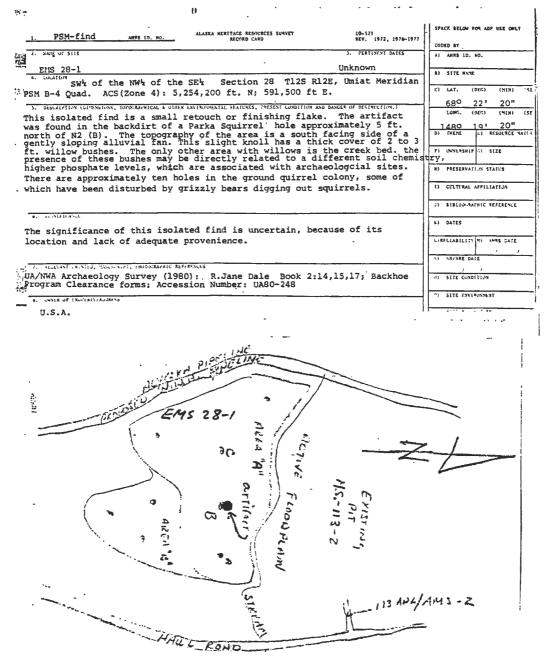
Significance: High. Two stone tent rings are intact and contain interpretable organic remains. The information potential regarding traditional land use activities warrants consideration of Register nomination.

Impact: Directly on NWA centerline.

5 220 000

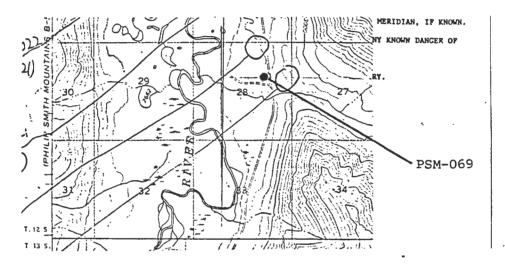
FEE

Mitigation: Avoid or excavate/record fully.



Significance: Unknown. The find could relate to additional materials. Impact: Directly on proposed EMS. Mitigation: Avoid or test and assess.

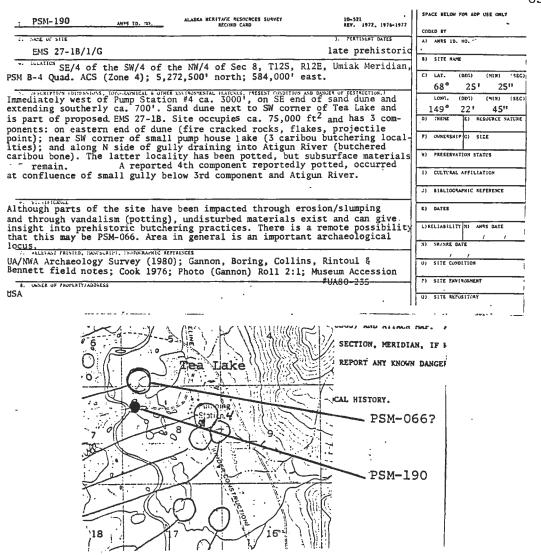
1. PSM-069 ANRS 10, 50.	ALASKA HERITAGE RESOURCES SURVEY RECORD GARD	10-521 REV. 1972, 1976-1977	SPACE BELOW FOR ADP USE ONLY
AS 028/1/C	late pr		AN ANS ID. NO.
4. LULATION SW/4 of NW/4 of SE/4	of NE/4 extending into SE/4	of NE/4 of SW/4	a) SITE NAME
of NE/4 of Sec 28, T125, R12E 5,255,875' north; 592,500' ea	.st.	11	68° 22' 37"
General location is 300' nort			1040. (DEG) (414) (SEC)
which consists of two tent ri bone in association lies on a larger granular alluvial fan.	. small granular alluvial fan	overlying an older	149° 18' 25"
is 8-10 ⁷ above the earlier fa	n, which is still actively d e was extensively tested, es	rained by Mainline	D OWNFASHIP CO SIZE
around the tent rings. The to and the caribou bones concent	rate near the center with so	me scatter, whereas	I PRESERVATION STATUS
the two tent rings are found within the proposed gas line	on the southern end. This si right-of-way and avoidance i	s recommended.	CULTURAL AFFILIATION
Burnary of the Mark	<u> </u>	[	a BIBLINNAFHIC REFERENCE
Although this site was previo tested, one ring partially te	sted & the third untouched),	insufficient doc-	> "ATES
umentation warrents further s on aboriginal social organiza	tudy. The potential exists f	or information	RELIASILIES IN ANRS DATE
utilization.	**************************************	vey (1980); Field	. Se see late
notes of Des Rochers:90c-90d, Hanson:123-130,152; Cook 1976	89,109-110; Miller:53-54,65; 2121; Museum Accession #UA80	-240	A STE ANDITION
B. OWNER OF TRUTEREST ADJRESS			A SITE FALLONMENT
			a bile ++ dil 44Y



Significance: Medium to High. Despite previous (Alyeska) testing the information potential of these tent rings and associated organic remains is considerable. Register eligibility is likely.

Impact: Directly on proposed NWA centerline.

Mitigation: Avoid and preserve or excavate/record fully.

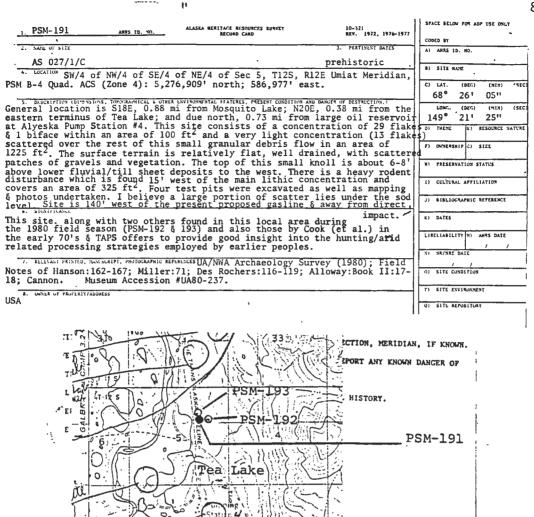


11

Significance: High. This series of loci has considerable informational potential in two intact, interpretable loci and one partially disturbed locus. Butchering and other practices are recorded. This site is considered to contain sufficient information to warrant Register eligibility determination.

Impact: Directly on proposed EMS.

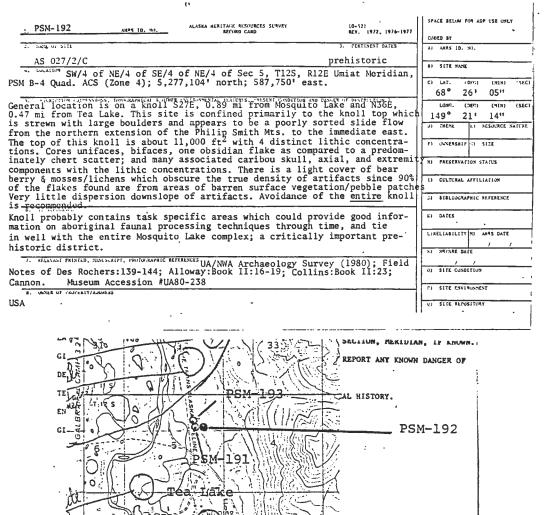
Mitigation: Avoid or excavate.



Significance: Medium to High. The site contains lithic detritus and tools in an undisturbed locality. Associated with two other nearby sites (PSM-192, PSM-193) and the various Mosquito Lake sites. The localities have potential for significant informational return and should be considered as potential Register quality.

Impact: Indirect but near the proposed centerline.

Mitigation: Avoid and protect, perhaps by fencing.

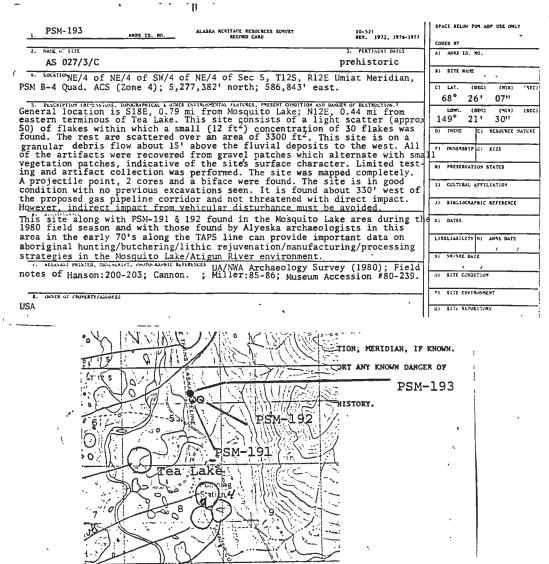


Significance: High. This large, multicomponent site contains a wide range of lithic and organic materials in good context. This site is key and in conjunction with PSM-191, 193, and other Mosquito Lake sites is clearly of Register quality.

Impact: Indirect

Mitigation: Avoid and protect.

. 87



Significance: Medium. The scatter of materials should be considered in conjunction with nearby PSM-191 and PSM-192 as well as the numerous and important Mosquito Lake sites. The group has the quality to assume Register potential.

Impact: Indirect (330' west of proposed NWA centerline).

Mitigation: Avoid and protect from vehicular disturbance.

	0		•	• • • •
, PSM-181	ANRS ID. NO. ALASKA HERI	TAGE RESOURCES SURVEY	10-521 REV. 1972, 1976-1977	SPACE BELOW FOR ADP USE ONLY
		RECORD CARB		CODED BY
Z. NAME OF SITE			3. PERTINENT DATES	A) ANRS ID. NO.
	- Theresa's Knoll		prehistoric	B) SITE NAME
Lucation N/2 of	the S/2 of the SE/4 of	the SE/4 of Sec	21, TIIS, RIIE,	
Umiat Meridian, PS	M B-5 Quad. ACS (Zone ka pit west of Galbrai	4); 5,289,500' no:	rth; 561,250' east;	C) LAT. (DEG) (N(X) 'SI
NW border of Alves	ka pit west of Galbrai to Bocarnical & other ENVROYMENTAL knoll on the northwes	TH LAKE ALTPOIL.	DANGER OF DESTRUCTION.	
Site situated on a	knoll on the northwes	t border of an ex	isting pit. A small	149° 32' 40"
microblade frags.	the base of the knoll. (all of chert were loc	ated both surfici	ally and subsurface	D) THEME E) RESOURCE SATUR
Some of each artif	act type was collected laced therein. Two mai	. Tests backfille	d and orange flag of material. Dimen-	F) OWNERSHIP (C) SIZE
cione - roughly ci	rcular Sm diameter, C	urrent (9/80) NWA	plans will not	
disturb site (pit	area cleared for use 8 and machines on the s	(/80) but the pote ite is great as t	ntial for secondary he site is on the	N) PRESERVATION STATUS
border of the prop	osed material source.	<b>-</b>		E) CULTURAL APPELIATION
			•	3) AIBLIG-MAPHIC REPERENCE
eating the prehist	is flaking station/cam oric culture history c	of the area. With	the other sites	KJ DATES
located in the are	a important data conce	erning past land u	se can also be	LIFELIABILITY NI ARRS DATE
obtained.				NA NAUNRE DATE
IN ARA Archaoologi	cal Survey (1980); Fet	ter field notes:1	29-132 & 64-69:	
Jordan field notes	:10-12; Villa field no	tes:15-16: Museum	Accession #UA80-	Or SITE CONDITION
			222	TO SIDE ENVIRONMENT
8. Heard of faitheric ADDR	.22			
USA-Federal				Q) SITE REPOSITORY
••	• • • • • · ····			
	•			<b>A</b> . I
ζι.	CA SI N.		1) PSM-131	Theresa's Knell
			7-) PSM-184	; Zombie Villa
	Auto Internet		22 181-182	Skywulker site
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	AIPPONS	1		
	( JU 3 .	•	4)psm-197	", Spike site
	)= smith alment			•
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Borrow		N.		,
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			0 - <i>(</i>	
NA A		•	PSIN B-5 6	mad
			1	.
		•	•	
				1

- Significance: Medium. The materials occur in situ in two loci and should reveal pertinent data on traditional land use activities. The quality of potential information is considered good and Register eligibility is possible.
- Impact: Indirect but open to vehicular damage as it is adjacent to a proposed material source.

Mitigation: Avoid and protect, possibly by posting or fencing.

PSM-184 ARRS 1D., NO. ALASKA HFRITAGE RESOURCES SURVEY 10-521 RECORD CARD REV. 1972, 1974-1977	SPACE BELOW FOR ADP USE ONLY
2. Say of site ENS 26-1/2/F - Zombie Villa prehistoric	A) ANRS 1D. NO.
4. DOLATICS NE/4 of the NW/4 of the SW/4 of Sec 22, T11S, R11E, Umiat Meri- dian, PSM B-5 Quad. ACS (Zone 4); 5,291,250' north; 562,850' east; on a knoll NW of Galbraith airport.	
3. BEARTING TRIVENESS, TOPOLOGICAL TOWN ENTIONMENT FAILURES, PRESERVOSTING AND BARGET OF DESTINCTION.) Site situated on flat portion of knoll on north central border of an existing Alyeska pit. Only surficial materials were noted, but subsurface material may exist as well. Chert biface frags., flakes & cryptocrystalline chert point frags. found, some of which were collected. Dimensions - 35m x 25m, possibly larger. Downslope creep does not seem to be affecting the site. Current NWA	LONG. (DEG) (MIN) (SEC)
plans (9/80) do not endanger site directly (material source proposed was cleared 8/80) but indirect impact from people and machines could be great. Also, there is a small stream near the base of the knoll.	R) PRESERVATION STATUS
	1) CULTURAL APPILLATION
• Successful Further work here should reveal a rather large flaking station/ campsite which could provide much data about land use and culture history in	K) DATES
this area.	
<ul> <li>T. RELECTOR PAINTED, RULLING REFERENCES</li> <li>UA/NWA Archaeology Survey (1980); Fetter field notes:133-136; Museum Accession #UA80-223; Photos Roll F-1 #11-19.</li> <li>USALE OF PROPERTY AUDRESS</li> </ul>	N) SAFARE DATE , , O) SITE CONDITION ) P) SITE ENVIRONMENT
USA	Q) SITE REPOSITORY
· · · · · · · · · ·	
5 1 1 1 A 1 1 5 1 1 1 PSM-1	SI; Theresa's Enell
$= \sum_{n=1}^{\infty} \sum_{i=1}^{\infty} \sum_{j=1}^{\infty} \sum_{i=1}^{\infty} \sum_$	24; Zombie Villa 13; Skywulker site
4)ps/1-1	sz', Spike site
Boirou vectore striker 23	-
psin B-5	Quad

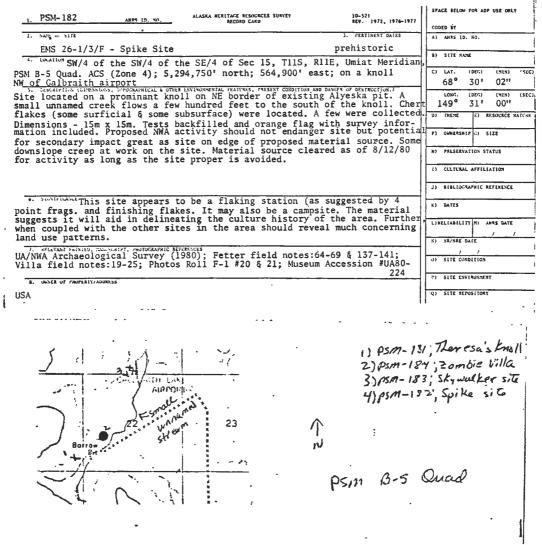
· · · p

Significance: Medium to High. The potential for information is good given the nature and quality of the flakes and retouched tools. Eligibility for Register nomination is likely.

Impact: Indirect but subject to impacts from vehicles.

Mitigation: Avoid and protect, possibly by posting or fencing.

, 90



Significance: Medium. This possible camp site contains sufficient informational potential in the form of diagnostic artifacts and undisturbed context to suggest Register eligibility.

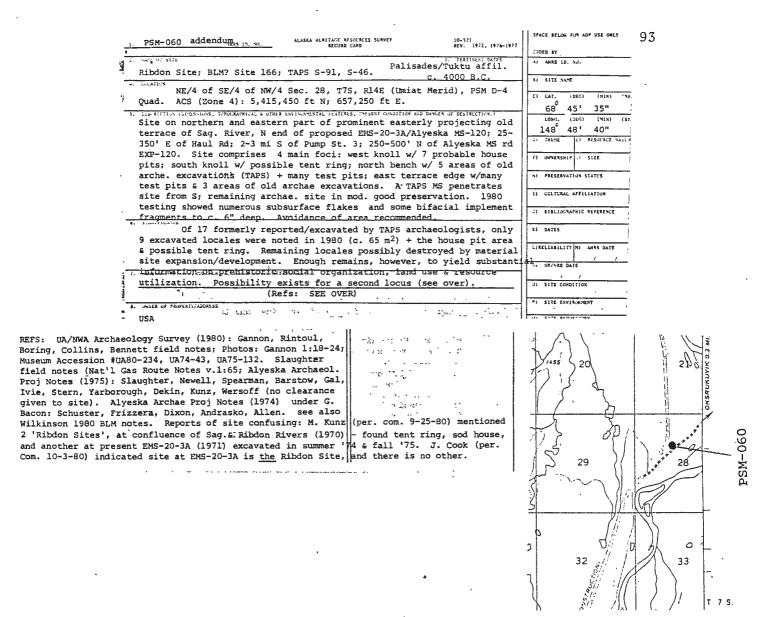
Impact: Indirect, some soil creep noted.

Mitigation: Avoid

. PSM-183	ANKS ID. KO.	ALASKA WERITAGE RESOURCES SURVEY RECORD CARD	10-521 NEV. 1972. 1976-1977	SPACE BELOW FOR ADP USE CALLY 92
2. MATE UL SITE			3. PERTINENT DATES	CODED BY
•	<b>et</b>		ļ	A) AHRS 10. SQ.
	- Skywalker Si	ne SE/4 of Sec 15, T11S,	prehistoric RILE, Umiat Meridian	S) SITE NAME
PSM B-5 Ouad, ACS	(Zone 4): 5.29	4,750' North; 564,850' Ea	st; on a knoll NW	C) LAT. (DEG) (N(H) 'SFC)
of Galbraith airpo	ort			68° 30' 02"
Site is situated of	on a small, low	knoll north of PSM-182.	A low swale separ-	LONG. (DEG) (MIN) (SEC)
ates the two sites	s. Material was	located both surficially face. Artifact types: ste	and at least 1 majo	149° 31' 02"
flakes, biface fra	igs., blades. M	aterial: all chert or oth	er cryptocrystalling	DI INERE ILI RESOURCE NATURI
Samples of each ty orange flag/survey	vpc and materia	l were collected. Tests b . Dimensions - about 12 m	ackfilled with x 30 m, possibly	F) OWNERSHIP () SIZE
larger. Current (	0/80) construct:	ion plans do not endanger y people and machines gre	site directly but	N) PRESERVATION STATUS
is affecting site	particularly of	n east edge. NWA given cl	earance for their	1) CULTURAL AFFILIATION
EMS, providing the	site is not a	isturbed.		J) BIBLIN-SAPHIC REFERENCE
site is an importa	nse concentration	on of point frags. and fl tion/campsite with the po	akes suggest the tential for reveal-	E) DATES
ing a great deal a	about the prehi	storic culture history an	d land use patterns	LIRELIANTLET: NO ANKS DATE
or the area, espec	cially along wi	th the other sites locate	d in the area.	NI NUME DATE
A RELEVANT PRENDOU, 124	KIPT, PROTOGRAPHIC REF	REACES	146 5 64 60:	
Photos NWA Roll F	1 #22-25. Muse	; Fetter field notes:142- um Accession #UA80-225.	140 q 04-05;	OF SITE - SUITION
A. UNITE OF PROPERTY ADD	6618			The matter evolution the state of the state
USA				NE STE KLUSET BY
•		• •	I	'
- 1				
$\boldsymbol{\zeta}$ + :	( A)	$\sim$ ,	1) PSM-13	, Theresa's Enoll
		°(	Z) PSM-18.	Y; Zombie Villa ; Skywulker site
	- CALL ATH LAN	1	310511-18	Skywelker site
	AIRPON	· · · · · · · · · · · · · · · · · · ·	$M \wedge M = 13$	2' Spike site
$\sim$	( roll-	A		-, sprite site
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~17		е и -	PS/11 B-5 (	Quad
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ХТ		. # 1		
		•		

- Significance: Medium to High. Diagnostic artifacts and debris from tests at this site, and association with PSM-182, indicate high information potential and likely Register eligibility.
- Impact: Indirect though potential damage from soil creep on eastern edge and machinery is noted.

Mitigation: Avoid and perhaps fence or post.

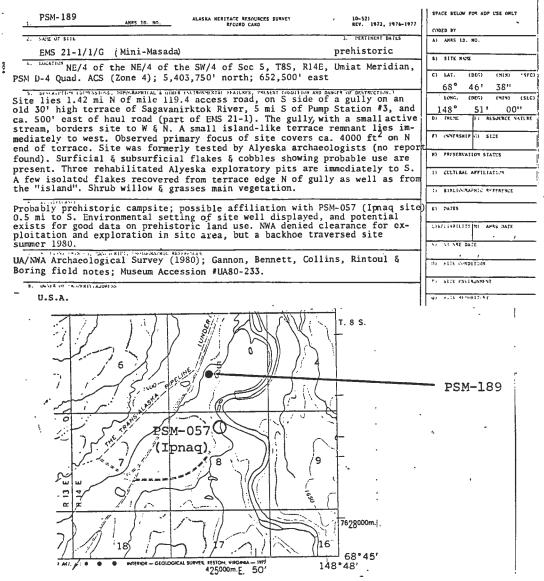


Significance: Medium. This known Alyeska site still contains a considerable amount of information in its several loci. Register eligibility is possible given the published data, extant house pits and new evidence of additional in situ subsurface materials.

Impact: Site is directly on proposed EMS.

Mitigation: Avoid or salvage*(impacted area); areas off directly impacted zones should be carefully avoided.

*Additional study may suggest scientific excavation rather than salvage is called for. The entire Ribdon site is involved.

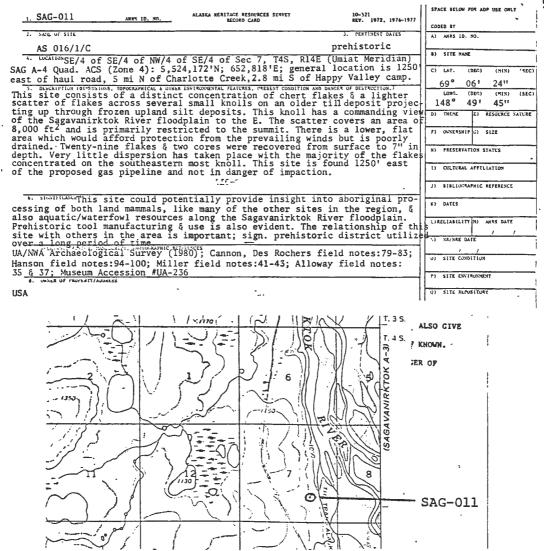


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Significance: Medium. This extensive locale contains a sufficient distribution of flake remains to suggest a potentially significant informational yield. Register eligibility is defendable.

Impact: Directly on proposed EMS.

Mitigation: Avoid or excavate.



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Significance: High or medium. The site has several in situ concentrations of lithic materials and should relate important information on several exploitational foci.

Impact: Indirect

Mitigation: Avoid

SAG-006 addendums ID. HO.	ALASKA NERITAGE RESOURCES SURVEY Record Card	10-521 REV, 1972, 1976-1977	SPACE BELOW FOR ADP USE ONLY
			CODED BY
2. SAN OF STR		3. PERTINENT DATES	A) AMRS ID. NO.
Alyeska S~9	Nodorn 11	Skimo; prehistoric?	
4. LUCATION	Modern	iskind; premistoric?	B) SITE HAME
	E E's of NE's, Sec. 30, T	S. PIAF Umiat Mar	<u> </u>
SAG A-4 Quad.; ACS (Zone 4	$1) \cdot 5 542 400 $	S, RIGE, OMIAL Mer.;	C) LAT. (DEG) (HIH) "SEC)
5. DESCRIPTION (DEPENDIONS, TOPOCRAPHICAL & OTHER			69 09' 20"
			LONG. (DEG) (MIN) (SEC)
Site lies along a 2900 for	st long, 50 ft high term	ace remnant of Saga-	148" 49' 35"
vanirktok River incised by	D) THENE E) RESOURCE NATURE		
Cr. to south, immediately	east of and adjacent to	Prudhoe Bay Rd., and	
immediately north of Happy	Valley Camp. Overloo)	s Sag. River valley.	7) OWNERSHIP C) SIZE
Limits of site vague, espe	cially in width, but mi	nimally between east	
edge and Haul Rd. Typical	tundra vegetation (tu	socke graces east	N) PRESERVATION STATUS
willow). Site may have 2 of	components l sound too	Sours, grasses, scrub	1
by "recent bustors" 1	omponents: I sawed bone	, possibly produced	1) CULTURAL AFFILIATION
by "recent hunters" ca.	mi. north of H.V. Camp	Derry in Cook 1970:	
95); and 3 scattered subs	urrace flakes found alo	ng terrace in 1980.	J) BIBLIOGRAPHIC REFERENCE
Although limits of site an	a manual and material -	allested br 3 -	K) DATES
scattered aspect and appar	e vague, and material c	offected had a	
scattered aspect and appar	ent low density, site c	loes occupy a high	LIRELIABILITY H) ANRS DATE
potential setting: terrace	overlook, fresh water,	e.g. As site seems	
to exhibit 2 components,	further examination is	recommended. The	N) NR/NRE DATE
7. RETEVANT PRESERVE, MASCHIEF, PROTOGRAPHIC REP	MALNULS proposed NWA cente	rline passes thru sit	e
UA/NWA Archaeological Surv	ey (1980), Cannon field	notes; ,	0) SITE CONDITION
Derry in Cook 1970:95.			C) SITE ENVIRONMENT
8. UNDER OF PROFERTY/ADDRESS			·/ ····
USA	UA accession #	: UA80-242 ·	Q) SITE REPOSITORY
	11-11-661		
	ie III	SIBLE. ALSO, IF IN TO	WETTE CIVE LOT AN
24	HAPPY MALLEY A10'	SIBLE. ALSO, IF IN IO	WASTIE, GIVE LOI AN.
	AUGSTRID	1:63,360 USCS) AND ATT	ACH MAP. ALSO GIVE
التحييج المسكر	NUM N	, QUARTER SECTION, MER	IDIAN, IF KNOWN.
		SIBLE AND REPORT ANY K	NOWN DANGER OF
		· ·	
- Ling o	DE INSTALSA		
SAG-0		TE, OR LOCAL HISTORY.	l
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		ITEN.	
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) Happy Va	lley.		•
		$\mathbf{A} = artifact$	locations
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	I Altank / smpt		
36.	31 14 1 4 32		1
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Significance: Unknown. Potentially considered high.

Impact: Directly in proposed NWA centerline.

Mitigation: Avoid or test further.

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## Discussion

Since materials and localities will be described more fully in the final report to the sponsor and permitting agencies, only a few additional notes are provided here.

In the Livengood area we verified several reported sites. Among these is LIV-032. The site produced no additional materials and presumably was collected by Alyeska archaeologists (although they reportedly did not excavate the 15 m x 15 m shelter locus). The finds we made after careful testing in the area (two are reported above) are not considered indicative of additional materials of significance at this locality.

Sites on outcrops of Livengood chert (LIV-030-50, 103-108, cited above) have significant potential for revealing data relating to both the exploitation of animals and raw materials, and to the production or manufacture systems of peoples in the area over the millennia. Even small loci have the potential to reveal significant information, and as a group, the Livengood localities are especially important in interior Alaska.

PSM-060 reportedly was excavated by Alyeska (see Aigner and Gannon 1980, Appendices, with references) but our testing in 1980 revealed some salvageable data which are of interest remaining at the site. The several Ribdon site loci relate, for the most part, to (typological) Palisades and/or Tuktu materials; one locus relates to (typological) Denbigh. A discussion of these cultural-historic units is provided in Aigner and Gannon 1980. A reportedly associated C-14 determination of 1780 ± 150 B.P. serves to highlight the fact that the cultural historical background of the materials called Palisades/Tuktu, if not Denbigh as well, still are open to various temporal interpretations. Cultural-ecological understanding of the remains is even more limited.

The Mosquito Lake-Atigun River area (PSM localities) has been heavily used by native peoples over the millennia. The complex of loci and sites attests to the importance of ecological factors in configuring land use activities. Our finds and record of resources in this area only highlight this point. The cultural-historic relations of the materials and the land-use activities which they represent are poorly known despite previous work (reported in Aigner and Gannon 1980, with references). Since it is likely that some resources will be subject to adverse impacts, carefully thought out research strategies for mitigation will contribute significantly to our understanding of land use activities in interior Alaska.

We recorded and recovered materials from 74 sites and find areas in the Sagavanirktok, Philip Smith Mountains, Chandalar, Wiseman, Bettles, Livengood, Big Delta, and Tanacross quadrangles. A total of 998 lithic artifacts and 365 faunal elements (including fragments) were recovered from the various sites encountered during the 1980 survey. Numerous samples of charcoal, soil and other organic materials were collected as well. While sampling procedures were not rigidly fixed, artifacts from most sites were collected insofar as to yield a representative sample, both above and below surface, suitable for analysis, and to determine the limits of the sites. However, a general rule for sampling was to collect conservatively under the assumption that further more controlled work would follow. In many cases, it would have been possible, if not easy, to inadvertently exhaust a site of its cultural materials through sampling.

In all cases, proveniences of lithic, faunal and other samples were carefully noted and mapped so that they may be fitted into future investigative activities.

Of the lithic materials, a broad spectrum of styles and material was collected and observed (Appendix 6). Objects relegated to the class of 'waste flakes' are the most commonly occurring form, but many of these comprise blades or blade-like specimens. Sizes of the latter range from less than 1 cm to over 6 cm in length. Core fragments, chunks, and some indeterminent pieces make up the remaining portion. A number of specimens can be considered implements, comprising chiefly bifaces (including projectile points), preforms and blanks, utilized flakes and blades, possible burins, and unifacially flaked objects with probable scraper-like functions. A number of the other specimens appear to be naturally formed (e.g., frost shattered or hydraulically spalled). Preliminary inspection of the various collections reveals percussion flaking, pressure flaking manifested in primary and secondary retouch, and suggestive of both 'hard' and 'soft' hammer production. Unifacial flaking is also fairly common. The vast majority of lithic materials are composed of various types (colors and grades) of chert, varying broadly as to their isomorphism and flaking quality. A small number of pieces are obsidian.

Although these collections have not yet undergone thorough analysis, several of the more diagnostic pieces were selected for examination. Of these, twelve are shown and described in Figure 1.

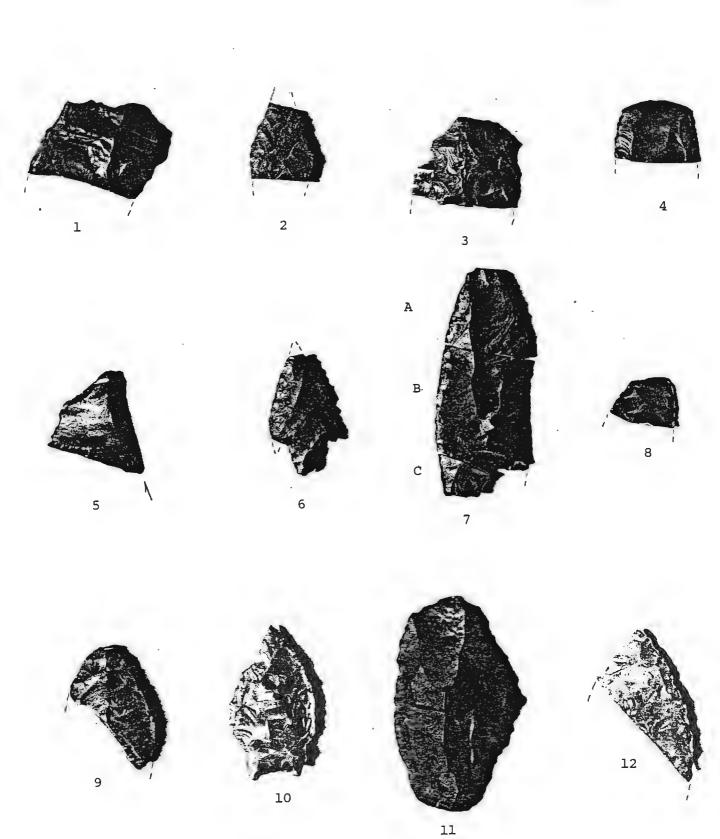


Figure 1. Selected diagnostic artifacts (actual size)

- UA80-227-1 (BET-123): Black chert interior flake fragment (implement), unifacially retouched along margins. Ends terminated by snap break and hinge fracture.
- UA80-225-267 (PSM-183): Blackish chert 'projectile point' midsection, convex borders, biconvex cross section. Some of retouching is diagonal parallel.
- 3) UA80-223-5 (PSM-184): Grey chert biface fragment (preform?) with transverse perverse fracture and missing tip on opposite end. Most of flaking appears to be percussive and object appears utilized.
- UA80-207-2 (WIS-003): Black chert interior distal fragment of flake with peripheral unifacial edge retouch. Object has transverse snap break. One larger primary retouch scar has hinge fracture. Possible 'scraper.'
- 5) UA80-236-1 (SAG-011): Thick black chert flake fragment showing possible burin facet and marginal utilization scars.
- 6) UA80-235-1 (PSM-190): Stemmed projectile point, black chert. Bifacially flaked with primary and secondary retouch. Barbs and stem created by corner notching. One barb and tip missing. Some secondary retouch is parallel diagonal. Crude diamond cross section.
- 7) UA80-234-32A, B. C (PSM-060): Large black chert unifacially retouched blade implement in three pieces (found in situ in contiguous association). Retouch on both margins. Proximal ventral surface shows prominent lip and diffuse bulb suggesting soft hammer or pressure mode of detachment. Considered a blade due to evidence of platform preparation and arris. Transverse snap break between two proximal fragments longitudinally traversed by 4 cm - long thinning flake down midline. An incongruous scar appears on ventral side of middle fragment between the two proximal fragments suggesting retouch after breakage. Break between proximal fragments indicates hinging away from ventral surface. Distal end of middle fragment shows a hinge fracture extending onto distal fragment, indicating two breaking events.
- 8) UA80-231-3 (BET-042): Obsidian biface fragment with some edge retouch. Transverse snap break and small termination break present.
- 9) UA80-239-4 (PSM-193): Greenish grey chert biface fragment (tip or butt) with termination missing, and showing primary and secondary retouch. Diagonal helical perverse fracture is present. Some primary retouch is crudely parallel.
- 10) UA80-239-3 (PSM-193): Grey green chert projectile point with missing lateral tip, broad stemmed and corner notched. Cortex present on one face. Flaking is irregular and basal thinning is crude. Biconvex cross section.

- 11) UA80-238-7 (PSM-192): Bluish black interior flake (blade?) blank: has dorsal arris and evidence of platform preparation. Some localized preliminary marginal nibbling present (through retouch or use). 33 x 55 mm.
- 12) UA80-237-4 (PSM-191): Grey chert bifacially flaked implement 'tip' with diagonal perverse fracture (snap break). Shows preform with primary retouch and some marginal secondary retouch (probably percussive). Vague evidence of thermal alteration (potlid and differential luster) shows on surface. Plano-convex cross section.

## Summary of Recommendations

Seventy-four localities were identified during the 1980 field survey along the proposed NWA route, EMS's and other facilities. These include 48 directly impacted cultural resources (27 newly identified) and 11 finds, and 15 indirectly impacted cultural resources (11 newly reported).

Of the directly impacted cultural resources, 14 newly reported and six known sites are judged to be of potential Register quality. Avoidance or scientific excavation are recommended alternatives. Four new and five known sites are directly impacted but contain insufficient data to qualify for Register nomination. Nonetheless, substantive information in the areas of assemblage completeness, manufacturing techniques and environmental data are forthcoming through salvage of these materials if they cannot be avoided. Six new and one known site are insufficiently known to permit an assessment of Register eligibility at this time. If these resources cannot be avoided then further testing and assessment are recommended. In the case of three new and nine old sites no mitigation is required. Two new sites are modern and the third has little or no information potential. In the case of nine known sites (three associated with 1980 finds described below), Alyeska work or previous construction has rendered them of no further archaeological interest.

Eleven finds directly impacted include eight non-sites. Three are potentially interpretable and further study is recommended if they cannot be avoided. One find is clearly modern and two are considered non-cultural.

Fifteen indirectly impacted localities are included in the present study. They lie near or directly adjacent to the proposed NWA centerline or EMS's. For 11 newly reported resources we recommend avoidance (which should be <u>pro</u><u>forma</u>) and stabilization or protection (by fencing, posting, etc.) in seven cases. Preservation and/or stabilization of two known sites is recommended. The 74 cases are listed below in Table 2. .

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AHRS Number New Sites	AHRS Number Known Sites	Quad. 1:250000 New Finds	Significance	Impac - Indirect		Mitigation Alternatives
		TNX-find	None	19 19 1	Direct	No action
XBD-042			Low*		Direct	Avoid or Salvage
	LIV-041		Low	Indirect		Avoid & Stabilize
,	LIV-043		Low		Direct	Avoid or Salvage
	LIV-040	ł	Medium		Direct	Avoid & Stabilize or Excavate
LIV-105			High		Direct	Avoid or Excavate
	LIV-046		Medium-High		Direct	Avoid or Excavaté
	LIV-050		Unknown		Direct	Avoid or Test & Assess
LIV-106			Medium-High		Direct	Avoid or Excavate
LIV-104			Medium-High		Direct	Avoid or Excavate
	LIV-030		Medium		Direct	Avoid & Stabilize or Excavate
LIV-103			Medium-High		Direct	Avoid or Excavate
LIV-108		•	Medium-High		Direct	Avoid or Excavate
LIV-107 .	•		Medium		Direct	Avoid or Excavate
LIV-039			Medium-High	Indirect		Avoid/Stabilize & Post
		LIV-find #1	None		Direct	No Action
	LIV-032		None		Direct	No Action
		LIV-find #2	None	•	Direct	No Action
	LIV-055		None		Direct	No Action
BET-124			Unknown (None-Low)	ł	Direct	No Action
	.BET-006		None-Low		Direct	No Action
BET-125			Low-Medium(?)		Direct	Avoid or Salvage
BET-126		•	Low-Medium(?)		Direct	Avoid or Salvage
	BET-083	•	None		Direct	No Action
	BET-018		None		Direct	No Action
		BET-find/082	None-Low		Direct	No Action
	BET-082		None ·		Direct	No Action
	BET-042		Medium	Indirect		No Action
	BET-054		Medium		Direct	Avoid & Stabilize or Excavate
BET-122	•		Unknown		Direct	Avoid or Test & Assess
BET-123			Unknown		Direct	Avoid on Teat C Access
	BET-055		High		Direct	Avoid or lest 6 Assess Avoid or Excavate
	WIS-001		Low		Direct	Avoid & Stabilize or Salvage
		WIS-find #2	Unknown		Direct	Avoid or Test & Assess

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AHRS Number New Sites	AHRS Number Quad. 1:250000 Known Sites New Finds		Significance	Impa Indirect		Mitigation Alternatives
	WIS-003		Low	•	Direct	Avoid or Salvage
	WIS-019		Medium		Direct	Avoid & Stabilize or Excavate
WIS-051			Medium-High		Direct	Avoid or Excavate
		WIS-find #1/006	Unknown		Direct	Avoid or Test & Assess
	WIS-006		None		Direct	No Action
		WIS-find	Non-Cultural		Direct	No Action
	WIS-012		Low	Indirect		Avoid
WIS-050			Medium	Indirect		Avoid
CHN-013			Low		Direct	No Action after recording (modern)
CHN-014			Medium-High	Indirect		Avoid & Protect
CHN-015			High		Direct	Avoid & Protect
CHN-009			Medium-High		Direct	Avoid
CHN-008			Unknown		Direct	Avoid or Test & Assess
CHN-010			Unknown		Direct	Avoid or Test & Assess
	CHN-007		Medium-High	Indirect		Avoid & Maintain
		CHN-find/wood	Non-Cultural		Direct	No action
CHN-011			Medium		Direct	Avoid & Document Fully
CHN-012			Unkņown	5.a	Direct	Avoid or Test & Assess
		CHN-find/MP 194	None		Direct	No Action (modern)
PSM-188			Low-None		Direct	No Action (modern)
PSM-187			Low		Direct	Avoid or Salvage
	PSM-061		None		Direct	No Action
PSM-186			Unknown (MedH	igh?)	Direct	Avoid or Test & Assess
		PSM-find 30-1	None		Direct	No Action
PSM-185			Low-Medium		Direct	Avoid or Salvage
PSM-194			High		Direct	Avoid or Excavate & Record
		PSM-find 28-1	Unknown		Direct	Avoid or Test & Assess .
	PSM-069		Medium		Direct	Avoid or Excavate
PSM-190			High		Direct	Avoid & Preserve or Excavate
PSM-191			Medium-High	Indirect		Avoid & Protect
PSM-192			High	Indirect		Avoid & Protect

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AHRS Number New Sites	AHRS Number Known Sites	Quad. 1:250000 New Finds	Significance	Impa Indirect		Mitigation Alternatives
PSM-193		, , , , , , , , , , , , , , , , , , ,	Medium	Indirect		Avoid & Protect
PSM-181			Medium	Indirect		Avoid & Protect
PSM-184			Medium-High	Indirect		Avoid & Protect
PSM-182			Medium	Indirect		Avoid
PSM-183			Medium-High	Indirect		Avoid
	PSM-060		Medium-Low(?)		Direct	Avoid or Salvage
SM-189			Medium-High(?)		Direct	Avoid or Excavate
SAG-011			High-Medium	Indirect		Avoid
	SAG-006		Unknown (High?)		Direct	Avoid or Test & Assess

*Low and Low-Medium, not considered Register eligible but demonstrated to possess some useful data; Medium-High, considered Register eligible as a single property or as part of a wider exploitational area or system and to contain important historic or prehistoric data. For a further brief discussion of terms, refer to the text.

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Segment Width	Segment Width		If Not,
150 ft.	500 ft.	Work Completed	Reason
	0 10 2		
10.2-12.2	0-10.2	+ +	
10.2-12.2	- 12.2-24		
- 2 / / /	12.2-24	+	
24-44	- 44-45	+	
45-96	44-40	+ 、	
45-96		+ +	
123-132	(149.6-150)	+	
150-247	(149.0-130)	-	
150-247	- 247-248.5	+	Net flagged considered
uit-	24/-240.5	-	Not flagged, considered
			to hold high potential
240 E 2E4			for cultural resources.
248.5-254		+	
- · 507 ( 515 5	499-503.6	·+	
503.6-515.5		+	
-	515.5-519.4	÷	
519.4-522		+	
528-528.5	-	-	Deleted as per verbal
			instructions from
			A. Cranmer
528.5-534.5	-	+	
	534.5-537	+	
-	537-539.3	-	Partly lacking permis-
			sions, partly deleted
			as per verbal instructions
			from A. Cranmer
539.3-548	-	+	
		_	
	med in W.O. = 231 mil		
Total miles added	l in field = 0.4 mil	les	
			signed = 231.4 miles
	eted = 227.1 miles		mpleted = 227.1 miles
Total miles not c	completed = 4.3 miles		re miles = 8.7 miles
		Estimated work	er days = 285-290 days
		•	•
Survey intensity:			d to 43-46 worker days
	for 1978 and 1979 s	surveys in forest	ed areas; 1980 segments
	were both forest ar	nd tundra vegetat	ion, permitting easier

## APPENDIX 1

Work Completed: Centerline Segments

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were both forest and tundra vegetation, permitting easier survey in the latter areas).

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## APPENDIX 2

## Summary of EMS's: 1980 Survey

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Intensive Walkover	Acres	Visual	Acres	Total Acres	Notes
·1-4	40	1-1 1-2 1-3	88 101 63	88 101. 63 40	Some archaeological
					potential, scheduled for visual but inten- sively surveyed
	-	2-1	754	754	
		3-1	346	346	
		3-2	384	384	
~		4-1	459	459	
		4-2	688	688	
		4 – 3A 4 – 3B	.355 42	355 42	
		4-36 5-1	622	622	
		5-2	217	÷217	i
		5-3A	158	158	
		5-3B	213	213 .	
		6-1	388	388	
		6-2	194	194	
		7-1	258	258	
		8-1A	121	121	
		8-1B	181	181	
		8-2	370	370	
		8-3	354	. 354	
		9-0	259	- 259	
		9-1 10-1A	718 121	718 121	
		10-1A 10-1B	363	363	
		10-10	439	439	
		10-3	155	155	
		11-1	325	325	
11-2	98			98	
		12-1	320	320	
12-2A	37			37	Not scheduled but
12-2B	10			10	examined since has
					potential and were accessible
		14-1	421	421	
14-2	40	14-2	41	81	•
		14-3	43	43	
16 1	7.0	15-2	288	288	
16-1	30	16-1 16-2	80 29	110 29	Potentially no access Visual scheduled for intensive survey but inaccessible

# Summary of EMS's - Continued

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Intensive. Walkover	Acres	Visual	Acres	Total Acres	Notes
16-3	. 96			96	r
		17-2	28	28	Į
18-1A	. 19			19	
10 10	110	18-1B	17	17	ſ
· 18-1C	112	18-1.1	94	112 94	
		18-1.1	94 67	94 67	
		19-1.1A	59	59	\$
		19-1.1B	133	133	
19-2A	86			86	
		19-2B	26	26	
20-3A	32			32	
20-3B	50			50	Not scheduled but done since near known site on 20-3A
21-6	240			246	
21-2	128			128	
22-1	37			37 *	
22-2 24-1A	18 69			· 18 69	
24-1A 24-1B	41			41	
25-1	75			• 75	
25-2	50	•		50	
26-0	153`			153	•
26-1	169			169	•
27-1A	54			54	
27-1B	27			27	
27-2 28-1A	56 46			56 46	
28-1A 28-1B	15			40 15	
28-4A	14			14	
28-4B	8			8	
29-1A	10			10	
29-1B	21			21	
29-1C	33	29-1C 29-2	20	53	Partially inaccessibl€ Examined aerial photo
29-3A	5	29-3A	15	20	
29-3B	13			13	
30-1 30-3	31			31	Deleted from W O #9
30-3					Deleted from W.O.#8, no access
31-1	8			8	no access
31-2	8			8	
31-3A	43			43	
<b>31-3</b> B	39			39	
32-1	30	32-1	12	42	Partially inaccessible
32-2	111	70 7		111	
32-3	. 80	32-3	39	119	Partially inaccessible

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# Summary of EMS's - Continued

Intensive Walkover	Acres	Visual	Acres	Total Acres	Notes
33-1	21	34-0 to 39-	1	21	Deleted from W.O.#8 but done as it was accessible & requested by L. Ericson Did not do visually in field, examined air photos
39-3	201			201	photos .
41-1	48			48	
41-2A	54			54	
41-2R	54	41-2B	35	35	
41-3	31	41 20	Ş.	31	
42-3	41			41	
42 0	11	43-2	86	86	
		43-3	144	144	
		44-1	208	208	
		44-4	147	. 147	
44-5	27			27,	
45-1	73			73	Scheduled as visual: added since accessible
45-2A	62		• -	62	
45-3	191			191	
46-1	118			118	
48-0	66			66	
48-2A	28			28	
48-2B	56			56	
48-3	100			100	
48-4	139			. 139	
51-1A	37			37	
51-3	88			88	
52-3B	9			9	
54-1B	19			19	
55-1B	18			18	
55-2A	47			47	
60-1	85	•		85	
60-1.1	69			69	Not scheduled but done since near 60-1
		64-1	201	201	Cleared for hand sample only, not accessible for survey.
69-3A	14			14	Helicopter access.
69 <b>-</b> 3B	15			15	Helicopter access.
71-0A	9	-		9	······
71-1	15			15	
71-3A	23		-	23	
71-3B	17			17	

## Summary of EMS's - Continued

Intensive Walkover	Acres	Visual	Acres	Total Acres	Notes
GRAND TOTAL 72	4009	52	11289	15298	
WORKERDAYS	315				
INTENSITY (workerdays/ square mile)	50				

# Aerial photo interpretation:

EMS's	29-2	
	.30-2	
	30-3	•
1	30-4	
	34-0	
	34-2	
	34-3	
	34-4	
	35-2.1	
	36-1	
	36-2	
	36-4	
	37-2	
	38-2	
	39-1	

## APPENDIX 3

Miscellaneous	Work	-	1980,	Requested	in	Field

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Work	Acres
Trench stability plot TS-Al, 1300 x 600 ft. 5 persons @ 100 ft. spacing	17.9
Trench stability plot TS-D4, 1000 x 1000 ft. 4 persons @ 100 ft. spacing	23.0
Trench stability plot TS-E4, 700 x 1200 ft. 5 persons @ 80 ft. spacing	19.3
Trench stability plot TS-I5, 1100 x 800 ft. 5 persons @ 100 ft. spacing	20.2
Trench stability plot TS-B4, 1000 x 800 ft. 5 persons @ 80 ft. spacing	18.3
Borehole 41-32 + vicinity 260 x 200 ft., 5 persons	1.2
Borehole 42-35 + vicinity 260 x 200 ft., 5 persons	1.2
Borehole 42-37 + vicinity 260 x 200 ft., 5 persons	1.2
Borehole 27-32 + vicinity 150 x 150 ft., 5 persons	0.5
Borehole 27-33 + vicinity 150 x 150 ft., 5 persons	0.5
TOTAL	103.3 ACRES

### APPENDIX 4

## Summary of Monitored Backhoe Trenches on EMS's

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Southern Portion - Canadian border to Yukon River; amended to W.O. #8

EMS Number	Number of Trenches
125-3	3
120-3	
117-2	3 2 2 4
116-1	2
114-1	4
113-1	3
112-2	3 3 3 3 3 3
112-1	3
111-2	3
110-2	3
.106-1	1
105-2	. 1
105-1	2
103-2B	2 . F
102-1 99-2	5 7
98-2	2 . 5 . 3 . 5 .
98-1	3
95-5	8
92-1	, 5
86-3.1A	1
86-2A	2 .
86-2B	5
76-1	1
72-3B	1 2
71-0C	_2
Total 26 EMS's	77 Trenches
Northern Portion - Exhibit E; W.O. #8	
·	
68-4D	4
68-4B	3
67-2 60-3	4 7
60-2	4
60-1	3
59-2	5
56-1	9
54-2	8
50-1B	8
49-3	- 3
49-2	3

# Northern Portion - Continued

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EM	IS Number	Number	of	Trenches
	47-2		6	
	46-2C		1	
	46-2A		3	
	45-2B		4	
	45-2A		3	
	45-1		4	
	44-5		4	
	43-4		20	
	43-1		10	
	42-3		5	
	42-1		8	
	40-2B		0	access cleared but could
				not get through muskeg
	40-2A		3	
	39-3		5	
	38-4		12	
	38-3		8	
	37-3	,	8 7	
	36-5	3	7	
	36-3		7	
	35-4		8	-
	35-2A		4	
	35-2B	-	8	
Total	34 EMS's	:	119	Trenches

Sites north of the area in Exhibit E; added to program in the field.

33-3 32-2	3 9
32-1	4
31-3	. 5
31-2	2
31-1	5
30-3	6
30-1	9
29-3	5
29-1	11
28-4A	3
28-4B	. 2
28-1A	4
28-1B	3
27-2	7
27-1	7
26-1A	12
26-0	2
25-1	3
24-1	4

Sites north of Exhibit E - Continued

EMS Number	Number of Trenches
22-2	3
21-2	2
21-1	2
<u>18-1A</u>	1
Total 24 EMS's	114 Trenches
TOTAL OF SITES: 84	TOTAL OF TRENCHES: 390

### Field Changes to the Work Order:

Deleted in field:

34-1	4
38-2	3
39-4	. 2
40-B	7 inaccessible
41-3.1	12 .
41-5	12
42-2A, B, C	12 ~
43-3	6
50-2	. 5
51-A	· _

Added in field:

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39-3	. 5	
42-3	5	
44-5	4	
45-2A	3	
45-2B	4	
46-2A	3	
46-2C	1	
49-3	3	
54-2	8	
56-1	9	
67-2	4	

#### APPENDIX 5

#### Field Personnel, 1980

Jean S. Aigner, Ph.D., in general charge of the program. Brian L. Gannon, M.A., in charge of the field crews.

Crew: P. Bennett, B.S. L. Boring, M.A. D. Rintoul, M.A. J. Dale,* M.A. N. Collins, B.A.

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Brian Cannon, B.A., crew leader.

Crew: S. Alloway,* A.A. K. Miller, B.A. D. Hanson, B.A. T. DesRochers, B.A.

Kathy Leitgeb, B.A., crew leader.

Crew: J. Dale,* M.A. M. Wright, B.A. R. Timian, B.A. P. Rissman, M.A.

Sharon Fetter, M.A., crew leader.

Crew: L. Litwinionek,* B.A. J. Thorsen, B.A. J. Jordan, B.A. R. Fox, B.A. T. Villa, A.

*Also served as backhoe program monitors.

Other participants: B. Byington, M.A. P. Book, Ph.D. L. Heartfield, Ph.D. ł

APPENDIX 6

## Artifact Catalog

SAG-011

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AAS 016 Site #1

B. Cannon Date Collected: 7-23-80

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Artifact No.	UA80 Provenience/Description	Significance	Comments
236-1	(Surface find - 47'2" N8W from datum - Lot #4 - BC) large black chert flake with possible use wear		See Figure 1
236-2	(Surface find – 130' N30E of datum – Book 3 p. 100 – Lot #5 – DH) veined chert core with battering		
236-3	(Pit #1, 8-10" below surface - S51E 81'8" from datum - Lot #6 - KM) thin grey translucent chert flake		
236-4	(Pit #1, 8-10" below surface - S51E 81'8" from datum - Lot #6 - KM) thin grey translucent chert flake		
236-5	(Pit #1, 8-10" below surface - S51E 81'8" from datum - Lot #6 - KM) thin grey translucent flake		
236-6 to 12	(Pit #1, 8-10" below surface - S51E 81'8" from datum - Lot #6 - KM) 7 small grey translucent chert flakes		
236-13	(Pit #2, 3" below surface - S56E 73'1" from datum Lot #7 - KM) tiny grey translucent chert flake		
236-14	(Pit #4, 1" below surface, S46E 122'8" from datum - Lot #8 - TDesR) light grey opaque chert flake		
236-15	(Pit #5, 8" below surface, N4E 65'3" from datum - Lot #9 - SA) dark grey (thin) flake		
236-16	(Pit #7, 1-1/2" below surface, S46E 77-1/2" from datum - Lot #8 - KM) small grey chert flake		
236-17 to 22	(Pit #10, 3-6" in depth, S33E 36'3" from datum - Lot #11 - KM) 6 small black chert flake		

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AAS 016 Site #1

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Artifact No.	UA80 Provenience/Description	Significance	Comments
236-23	(Pit #10, 3-6" in depth, S33E 36'3" from datum - KM - Lot #11) small black chert flake - thin		
236-24	(Pit #10, 3-6" in depth, S33E 36'3" from datum - KM - Lot #11) black chert flake		
236-25	(Pit #10, 3-6" in depth, S33E 36'33" from datum - KM - Lot #11) black chert flake		
236-26	(Pit #12, 2-6" in depth, S57E 44'6" from datum - KM - Lot #12) black chert pebble		
236-27	(Pit #13, 2" below surface, S60W 18'9" from datum - BC - Lot #13) very small black flake	· 、	
236-28 *	(Pit #13, 2" below surface, S60W 18'9" from datum - BC - Lot #13) blade-like black chert flake		
236-29	(Pit #14, 4" below surface, N4OW 11'2" from datum – DH – Lot #14, note in Book 3 pp. 98-99) grey chert core fragment with battering along an edge (unifacial)		
236-30	(Pit #16, 2" deep, N58E 44'0" from datum – TDesR – Lot #15) small black chert flake		
236-31	(Pit #6, 2" deep, N58E 44'0" from datum – TDesR – Lot #15) small grey chert chunk		
*Note these a	re in envelop.		

*Note these are in envelop.

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AAS 016 - MP 87.13/April 80

B. Cannon Date Collected: 7-18-80

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Artifact No.	UA80 Provenience/Description	Significance	Comments
242-1	(Random pit (no exact location) 3 cm below surface - 300' east of centerline; north end of terrace; lower edge towards the east - DH - Lot #1) black chert chunky flake		
242-2 .	(Random pit (no exact location) approximately 4 cm below surface - 200' east of centerline; near south end of terrace; east edge - DH - see permanent Book #2 pp. 77-78 - Lot #2) chunky black chert flake		
242-3	(Random pit - about 5-6 cm depth - on centerline segment south end of terrace on downslope (note Book #1 p. 34) - KM - Lot #3) thin black chert flake		
PSM-060	, <u>-</u>		
EMS 20-3A Site #1	• •	B. C Date Collected: 7-	annon 17-80
Artifact No.	UA80 Provenience/Description	Significance	Comments
234-1	(TP #1, Alyeska Excavation Area I, BLG) small black chert flake	·	
234-2	(TP #1, Alyeska Excavation Area I, BLG) black chert flake		
234-3	(TP #1, Alyeska Excavation Area I, BLG) sandy-brown sand stone fragment		
234-4	(TP #1, Alyeska Excavation Area I, BLG) black chert flake		
234-5	(TP #1, Alyeska Excavation Area I, BLG) black chert flake - curved		

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Artifact No.	JA80 Provenience/Description	Significance	Comments
234-6	(TP #1, Alyeska Excavation Area I, BLG) thin black chert flake		
234-7	(TP #1, Alyeska Excavation Area I, BLG) black chert fragment		
234-8	(TP #1, Alyeska Excavation Area I, BLG) mottled grey/brown chert flake		
234-9	(Surface find, Alyeska Excavation Area I, BLG) grey chert flake		
234-10	(Surface find, Alyeska Excavation Area I, BLG) dark grey chert chunk		
234-11	(Surface find, Alyeska Excavation Area I, BLG) thin black chert flake	·	
234-12	(TP #2, 0-15 cm depth, Alyeska Excavation Area I, NC) · grey quartzite possible flake		
234-13	(TP #2, 0-15 cm depth, Alyeska Excavation Area I, NC) translucent grey chert flake fragment		
234-14	(TP #2, 0-15 cm depth, Alyeska Excavation Area I, NC) translucent grey chert flake fragment		
234-15	(TP #2, 0-15 cm depth, Alyeska Excavation Area I, NC) thin black chert flake	·	
234-16	(TP #2, 0-15 cm depth, Alyeska Excavation Area I, NC) small black chert flake - curved		
234-17	(TP #2, 0-15 cm depth, Alyeska Excavation Area I, NC) thin black chert flake		

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Artifact No.	UA80 Provenience/Description	Significance	Comments
234-18	(TP #2, 0-15 cm depth, Alyeska Excavation Area I, NC) black chert fragment		
234-19	(TP #2, 0-15 cm depth, Alyeska Excavation Area I, NC) 、 tiny black chert flake		
234-20	(TP #2, 0-15 cm depth, Alyeska Excavation Area I, NC) small, thin black chert flake		
234-21	(TP #3, Alyeska Excavation Area I, LB) light tan chert flake fragment		
234-22	(TP #3, Alyeska Excavation Area I, LB) black chert flake fragment		
234-23	(TP #3, Alyeska Excavation Area I, LB) black chert flake		
234-24	(TP #3, Alyeska Excavation Area I, LB) black chert chunk		
234-25	(TP #3, Alyeska Excavation Area I, LB) mottled brown/grey chert flake		
234-26	(TP #3, Alyeska Excavation Area I, LB) thin black chert flake		
234-27	(TP #3, Alyeska Excavation Area I, LB) small black chert flake		
234-28	(TP #3, Alyeska Excavation Area I, LB) thin, small black chert flake `		
234-29	(TP #4, Alyeska Excavation Area II, PLB) translucent grey chert flake		
234-30	(TP #4, Alyeska Excavation Area II, PLB) translucent striated grey chert flake		

Artifact No.	JA80 Provenience/Description	Significance	Comments
234-31	(TP #4, Alyeska Excavation Area II, PLB) translucent grey chert flake		
234-32A	(TP #5, Alyeska Excavation Area II, RJD) proximal end of large black chert biface trimming flake that has been unifacially worked		See Figure 1
234-32B	(Beside west side of TP #5, Alyeska Excavation Area II, RJD) medial section of large black chert biface trimming flake that has been unifacially worked		See Figure 1
234-32C	(TP #5, Alyeska Excavation Area II, RJD) distal end of large black chert biface trimming flake that has been bifacially worked	2	See Figure 1
234-33	(TP #5, Alyeska Excavation Area II, RJD p. 46) chalky grey chert flake		
234-34	(TP #5, Alyeska Excavation Area II, RJD p. 46) translucent grey chert flake		
234-35	(TP #5, Alyeska Excavation Area II, RJD p. 46) translucent rosey chert flake - twisted		
234-36	(TP #5, Alyeska Excavation Area II, RJD p. 46) translucent rosey/grey chert flake		
234-37	ITP #5, Alyeska Excavation Area II, RJD p. 46) tiny grey chert flake		
234-38	(TP #5, Alyeska Excavation Area II, RJD p. 46) small translucent rosey/grey chert flake		
234-39	(TP #5, Alyeska Excavation Area II, RJD p. 46) grey chert flake		

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Artifact No.	UA80 Provenience/Description	Significance	Comments
234-40	(TP #5, Alyeska Excavation Area II, RJD p. 46) translucent grey chert blade-like flake		
234-41	(TP #5, Alyeska Excavation Area II, RJD p. 46) translucent grey chert fragment		
234-42			
234-43	(TP #5, Alyeska Excavation Area II, RJD p. 46) thin translucent grey chert flake		
234-44	(TP #5, Alyeska Excavation Area II, RJD p. 46) thin translucent rosey/grey chert flake		
234-45	(TP #5, Alyeska Excavation Area II, RJD p. 46) small translucent grey chert flake		
234-46	(Surface find, Alyeska Excavation Area II, RJD p. 46) large thin patinated black chert biface trimming flake		
234-47	(TP #6 (NE corner), Alyeska Excavation Area II, DR- RJD p. 46) large thin black chert biface trimming flake		
234-48	(TP #7, Alyeska Excavation Area I, NC) grey chert chunk		
234-49	(TP #7, Alyeska Excavation Area I, NC) white quartzite chunk		
234-50	(Surface find, Alyeska Excavation Area I, BLG) trans- lucent light grey chert blade-like flake		
234-51	(Surface find, Alyeska Excavation Area I, BLG) trans- lucent grey chert flake fragment		
234-52	(Surface find, Alyeska Excavation Area I, BLG) tan opaque chert flake		

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Artifact No.	UA80 Provenience/Description	Significance	Comments
234-53	(Surface find - frost boil, RJD p. 37) black chert flake fragment		
234-54	(Surface find, 3 m W and 3 m N of TP #1, 2 and 7, terrace edge, BLG) opaque grey chert flake - curved		
234-55	(Surface find, 3 m W and 3 m N of TP #1, 2 and 7, terrace edge, BLG) translucent grey chert flake - curved		
234-56	(Surface find, 3 m W and 3 m N of TP #1, 2 and 7, terrace edge, BLG) opaque grey biface trimming flake		
234-57	(Surface find, 3 m W and 3 m N of TP #1, 2 and 7, terrace edge, BLG) chalky grey chert flake		•
234-58	(Surface find, 3 m W and 3 m N of TP #1, 2 and 7, terrace edge, BLG) opaque grey chert flake – curved		
234-59	(Surface find, 3 m W and 3 m N of TP #1, 2 and 7, terrace edge, BLG) light grey blade-like biface trimming flake		
234-60	(Surface find, 3 m W and 3 m N of TP #1, 2 and 7, terrace edge, BLG) light grey chert flake		
234-61	(Surface find, 3 m W and 3 m N of TP #1, 2 and 7, terrace edge, BLG) translucent grey-white chert flake		
234-62	(Surface find, 3 m W and 3 m N of TP #1, 2 and 7, terrace edge, BLG) black chert flake fragment		
234-63	(Surface find, 3 m W and 3 m N of TP #1, 2 and 7, terrace edge, BLG) small light grey chert fragment		
234-64	(Surface find, 3 m W and 3 m N of TP #1, 2 and 7, terrace edge, BLG) thin black chert flake		

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Artifact No.	UA80 Provenience/Description	Significance	Comments
234-65	(Surface find, 3 m W and 3 m N of TP #1, 2 and 7, terrace edge, BLG) light grey chert flake		
234-66	(Surface find, 3 m W and 3 m N of TP #1, 2 and 7, terrace edge, BLG) white/grey chert fragment		
234-67	(Surface find, 3 m W and 3 m N of TP #1, 2 and 7, terrace edge, BLG) thin black chert flake		
234-68	(Surface find, 3 m W and 3 m N of TP #1, 2 and 7, terrace edge, BLG) thin translucent grey chert flake		
234-69	(TP #E, RJD) grey chert flake		
234-70	(TP #H, 15' E of TP #6, 5 and 4, RJD p. 43) chunky black chert flake		
234-71	(TP #H 15' W of TP #6, 5 and 4, RJD p. 43) black chert fragment		
234-72	(TP #K, possibly windblown flake, at edge of cat tracks, RJD p. 44) black chert fragment		
234-73	(TP #"O", RJD p. 49) black chert flake		
234-74	(TP #"0", RJD p. 49) black chert fragment		
234-75	(TP #'d', in test trench of possible housepit, RJD p. 52) black chert fragment		
234-76	(Found in accidently dumped quarried gravel, RJD pp. 39-40) grey chert fragment		
234-77	(Test Trench 1, Housepit 'd', Area 1, LB, RJD p. 51) organic sample		

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Artifact No.	UA80	Provenience/Description	Significance	Comments
234-78		corner), Housepit 'd', Area 1, RJD hick compact humic mat		
234-79	(Test Trench 1 (S RJD p. 51) sandy h	end), Housepit 'd', Area l, LB,		
PSM-189				
EMS 21-1 (MP Site #1	114 + 3760/April 80)			Gannon -16, 7-29, 8-24-80
Artifact No.	UA80	Provenience/Description	Significance	Comments
233-1		line, terrace edge T8S R14E section 5; f SW 1/4 of NE 1/4 - TDesR, BC - Lot #6	9)	
233-2	(TP #1, ridge top black chert flake	S of gully - NE corner of terrace) smal	1	
233-3	(TP #1, ridge top chunky black chert	S of gully - NE corner of terrace) flake fragment		
233-4	(TP #1, ridge top chunk of black che	S of gully - NE corner of terrace) rt		
233-5	(TP #1, ridge top black chert flake	S of gully - NE corner of terrace) with cortex		
233-6	(TP #1, ridge top small blade-like b	S of gully - NE corner of terrace) lack chert flake		
233-7	(Surface of previo striated grey cher	us excavation - NE corner of S terrace) t flake		
233-8	(Surface of previo striated grey cher	us excavation - NE corner of S terrace) t chunk		

Artifact No. UA	80 Provenience/Description	Significance	Comments
	(Surface of previous excavation - NE corner of S terrace) black chert flake		
	(Surface of previous excavation - NE corner of S terrace) small black chert flake		
	(Surface of previous excavation - NE corner of S terrace) small black chert flake		
	(Surface of previous excavation - NE corner of S terrace) small black chert chunk		
	(Surface of previous excavation - NE corner of S terrace) small black chert flake fragment		
	(Surface of previous excavation - NE corner of S terrace) small black chert chunk		
	(Surface of previous excavation - NE corner of S terrace) small black chert flake fragment		
	(Subsurface test pit N3 (A) from summer backhoe program in S terrace, RJaD) chunky black chert fragment		
÷	(Subsurface test pit N4 (C) from summer backhoe program in N terrace, RJaD) chunky black chert fragment with cortex		

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128

#### PSM-181

EMS 26-1 Site #1

Artifact No. UA80

Sharon Fetter Date Collected: 7-23-80

Significance

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Comments

222-1	(TP #1, Lot #1) grey (Jasper?) flake with cortex on dorsal surface - use wear along left vertical surface
222-2	(TP #1, Lot #1) grey (Jasper?) flake fragment
222-3	(TP #4, Lot #2) grey chert flake fragment
222-4	(Next to TP #6, Lot #3 surface) grey chert fragment of a bifacially worked piece
222-5	(From S-1 concentration, Lot #4) grey/black chert chunk
222-6	(From S-1 concentration, Lot #4), grey/black striated chert chunk - possible core fragment
222-7	(From S-1 concentration, Lot #4) grey/black striated chert flake
222-8	(From S-1 concentration, Lot #4) grey/black striated chert flake

Provenience/Description

222-9 (From S-1 concentration, Lot #4) grey/black striated chert flake

222-10 (From S-1 concentration, Lot #4) sandy-grey chert flake

222-11 (From S-1 concentration, Lot #4) two small grey/black striated chert flakes

222-12 (S-2 concentration, Lot #5) grey chert flake

222-13 (S-2 concentration, Lot #5) grey quartzite flake

222-14 (S-2 concentration, Lot #5) dark grey chert flake

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Artifact No. UA80	Provenience/Description	Significance	Comments
222-15 (S-	-2 concentration - Lot #5) grey chert flake		
222-16 (S-	-2 concentration - Lot #5) grey chert flake		
222-17 (S-	-2 concentration - Lot #5) grey chert flake		
222-18 (S-	-2 concentration - Lot #5) grey chert chunk		
222-19 (S-	-2 concentration - Lot #5) grey chert flake		
222-20 (S-	-2 concentration - Lot #5) dark grey chert flake		
222-21 (S-	-2 concentration - Lot #5) dark grey chert flake		
222-22 (S-	-2 concentration - Lot #5) grey chert flake		
222-23 (S-	-2 concentration - Lot #5) grey chert flake		·
222-24 (Pi	it #7 - Artifact #A - Lot #6) large biface fragment		
uni	it #7 - Artifact #B - Lot #7) grey chert flake with ifacial retouch and heavy use wear bifacially on ght lateral edge		
	it #7 – Lot #8) dark grey chert unifacially worked agment with heavy lateral use wear		
222-27 (Pi	it #7 - Lot #9) grey chert flake fragment with cortex		
222-28 (Pi	it #7 – Lot #10) dark grey chert blade-like flake	<i>.</i>	,
222-29 (Pi	it #7 - Lot #11) grey chert flake		
222-30 (Pi	it #7 - Lot #12) dark grey chert flake (blade-like)		

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Artifact No. UA80		Provenience/Description	Significance	Comments
222-31 (Pi	it #7 - Lot #13)	grey chert blade-like flake		
222-32 (Pi bla	it #7 – Lot #14, ade-like flakes	15, 16, 17) 4 small grey chert	en la companya de la Nova	
	it #7 - Lot #18) agment	grey chert chunk possible core		
	it #7 - Lot #18) ake - large	grey chert biface trimming		
	it #7 - Lot #18) ake - large	dark grey chert biface trimming	g	
222-36 (Pi	it #7 - Lot #18)	large grey chert flake		
222-37 (Pi	it #7 - Lot #18)	large thick grey chert flake		
222-38 (Pi	it #7 - Lot #18)	large thin grey chert flake		
-	it #7 - Lot #18) agment	large thin grey chert flake	• •	
222-40 (Pi	it #7 - Lot #18)	grey chert flake fragment		
	it #7 - Lot #18) th hinge fracture	grey (dark) chert flake fragmer	nt .	
222-42 (Pi	it #7 - Lot #18)	grey chert flake (thin)		
	t #7 - Lot #18) th hinge fracture	grey chert flake fragment		
	t #7 - Lot #18) agment	large thin grey (dark) chert f	lake	

Artifact No.	UA80	Provenience/Description	Significance	Comments
222-45	(Pit #7 - Lot #18)	large thin grey chert flake fragment		X
222-46	(Pit #7 - Lot #18)	brown/grey chert flake fragment		
222-47	(Pit #7 - Lot #18)	grey chert blade-like flake		
222-48	(Pit #7 - Lot #18)	grey chert blade-like flake		
222-49	(Pit #7 - Lot #18)	thin grey chert flake		
222-50	(Pit #7 - Lot #18)	large thin grey chert flake		
222-51	(Pit #7 - Lot #18)	grey chert biface trimming flakes		
222-52	(Pit #7 - Lot #18)	large thin grey chert flake		
222-53	(Pit #7 - Lot #18)	thin grey chert flake		
222-54	(Pit #7 - Lot #18)	thin grey chert flake		
222-55	(Pit #7 - Lot #18)	thin grey chert flake		
222-56	(Pit #7 - Lot #18)	thin grey chert flake		
222-57	(Pit #7 - Lot #18)	thin grey chert flake		
222-58	(Pit #7 - Lot #18) hinge fracture	thin grey chert flake with curved		
222-59	(Pit #7 - Lot #18)	thin grey chert flake		
222-60	(Pit #7 - Lot #18)	thin grey chert flake		
222-61	(Pit #7 - Lot #18)	grey chert flake fragment		
222-62	(Pit #7 - Lot #18)	thin dark grey chert flake		

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Artifact No.	UA80 Provenier	nce/Description	Significance	Comments
222-63	(Pit #7 - Lot #18) grey chert	fragment		
222-64	(Pit #7 - Lot #18) grey chert	flake (curved)		
222-65	(Pit #7 - Lot #18) thin dark	grey chert		
222-66	(Pit #7 - Lot #18) brown cher	rt flake		
222-67	(Pit #7 - Lot #18) grey chert	: flake		
222-68	(Pit #7 - Lot #18) brown cher	rt flake		
222-69	(Pit #7 - Lot #18) brown cher	rt flake		
222-70	(Pit #7 - Lot #18) grey chert	: fragment		
222-71	(Pit #7 - Lot #18) grey chert	flake fragment		
222-72	(Pit #7 - Lot #18) grey chert	flake (curved)		
222-73	(Pit #7 - Lot #18) grey chert	flake		
222-74	(Pit #7 - Lot #18) thin grey	chert flake		
222-75	(Pit #7 - Lot #18) light grey	chert flake (thin)		
222-76	(Pit #7 - Lot #18) grey chert	flake fragment (curved)		
222-77	(Pit #7 - Lot #18) grey chert	flake		
222-78	(Pit #7 - Lot #18) grey chert	flake fragment		
222-79	(Pit #7 - Lot #18) grey chert	flake fragment		

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133

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222-80 (Pit #7 - Lot #18) grey chert flake

Artifact No.	UA80	Provenience/Description	Significance	Comments
222-81	(Pit #7 - Lot #18)	thin grey chert flake		
222-82	(Pit #7 - Lot #18)	thin grey chert flake		
222-83	(Pit #7 - Lot #18)	thin grey chert flake		
222-84	(Pit #7 - Lot #18)	grey chert flake		
222-85	(Pit #7 - Lot #18)	grey chert flake		
222-86	(Pit #7 - Lot #18)	light grey chert flake	· .	
222-87	(Pit #7 - Lot #18)	grey chert flake		
222-88	(Pit #7 - Lot #18)	grey chert flake with hinge fracture	·	
222-89	(Pit #7 - Lot #18)	grey chert flake		
222-90	(Pit #7 - Lot #18)	thin grey chert flake		
222-91	(Pit #7 - Lot #18)	light grey chert flake (curved)		
222-92	(Pit #7 - Lot #18)	thin light grey chert flake		
222-93	(Pit #7 - Lot #18)	grey chert flake		
222-94	(Pit #7 - Lot #18)	thin grey chert flake		
222-95	(Pit #7 - Lot #18)	grey chert flake (curved)		
222-96	(Pit #7 - Lot #18)	grey biface trimming flake		
222-97	.(Pit #7 - Lot #18)	grey chert flake		

222-98 (Pit #7 - Lot #18) thin grey chert flake

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134

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Artifact No. UA80	Provenience/Description	Significance	Comments
222-99 (Pit #7 - Lot #1	3) grey chert flake		
222-100 (Pit #7 - Lot #1	3) thin grey chert flake (slight curve)		
222-101 (Pit #7 - Lot #1	3) thin grey chert flake (slight curve)		
222-102 (Pit #7 - Lot #1	3) thin grey chert flake		
222-103 (Pit #7 - Lot #1	3) grey chert flake (curved)		
222-104 (Pit #7 - Lot #1	3) thin grey chert flake		1
222-105 (Pit #7 - Lot #1)	3) thin grey chert flake		
222-106 (Pit #7 - Lot #1	3) grey chert flake		
222-107 (Pit #7 - Lot #18	3) dark grey chert flake		
222-108 (Pit #7 - Lot #18	3) thin dark grey chert flake		
222-109 (Pit #7 - Lot #18	3) grey chert flake		
222-110 (Pit #7 - Lot #18	3) thin dark grey chert flake		
222-111 (Pit #7 - Lot #18	3) thin grey biface trimming flake		
222-112 (Pit #7 - Lot #18	3) grey chert flake fragment		
222-113 (Pit #7 - Lot #18	) thin light grey chert flake		
222-114 (Pit #7 - Lot #18	) thin dark grey chert flake		
222-115 (Pit #7 - Lot #18	E) light grey biface trimming flake		

222-116 (Pit #7 - Lot #18) light grey chert flake fragment (thin and curved) .

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Artifact No. I	A80 <u>Provenience</u>	Description	Significance	Comments
222-117	(Pit #7 - Lot #18) thin grey bi:	face trimming flake		
222-118	(Pit #7 - Lot #18) grey chert f	lake (curved)	<b>X</b>	
222-119	(Pit #7 - Lot #18) thin grey che	ert flake		
222-120	(Pit #7 - Lot #18) thin grey che	ert flake		
222-121	(Pit #7 - Lot #18) light brown : fracture	flake – hinge-like		
222-122	(Pit #7 - Lot #18) thin grey che	ert flake (curved)		
222-123	(Pit #7 - Lot #18) thin grey che with hinge fracture	ert flake fragment		
222-124	(Pit #7 - Lot #18) thin dark gro	ey flake (curved)		
222-125	(Pit #7 - Lot #18) dark grey che	ert flake fragment		
222-126	(Pit #7 - Lot #18) light grey cl	nert flake fragment	,	
222-127	(Pit #7 - Lot #18) thin grey che	ert flake		
222-128	(Pit #7 - Lot #18) thin dark gro	ey chert flake		
222-129	(Pit #7 - Lot #18) light grey cl	nert flake		
222-130	(Pit #7 - Lot #18) light grey cl	nert flake		
222-131	(Pit #7 - Lot #18) thin grey che	ert flake		
222-132	(Pit #7 - Lot #18) thin grey che	ert flake		
222-133	(Pit #7 - Lot #18) thin grey che twisted)	ert flake (curved,		

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Artifact No.	UA80	Provenience/Description	Significance	Comments
222-134	(Pit #7 - Lot #18)	thin dark grey chert flake		,
222-135	(Pit #7 - Lot #18)	dark grey chert flake		
222-136	(Pit #7 - Lot #18)	grey chert flake		
222-137	(Pit #7 - Lot #18) twisted)	dark grey chert flake (curved,		
222-138	(Pit #7 – Lot #18) fracture	black chert flake with hinge		
222-139	(Pit #7 - Lot #18) hinge fracture	grey chert flake fragment with		
222-140	(Pit #7 - Lot #18)	dark grey chert flake		
222-141	(Pit #7 - Lot #18)	grey chert flake		
222-142	(Pit #7 - Lot #18)	grey chert biface trimming flake		
222-143	(Pit #7 - Lot #18)	grey chert flake		
222-144	(Pit #7 - Lot #18)	grey chert flake		
222-145	(Pit #7 - Lot #18)	light grey chert flake		
222-146	(Pit #7 - Lot #18)	brown chert flake		
222-147	(Pit #7 - Lot #18) (twisted)	dark grey chert flake fragment		
222-148	(Pit #7 - Lot #18)	brown chert flake		
222-149	(Pit #7 - Lot #18)	thin grey chert flake (curved)		

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137

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Artifact No.	UA80	Provenience/Description	Significance	Comments
222-150	(Pit #7 - Lot #18)	grey chert flake (thick)		
222-151	(Pit #7 - Lot #18)	thin dark grey chert flake	· · ·	
222-152	(Pit #7 - Lot #18)	dark grey chert flake fragment		
222-153	(Pit #7 - Lot #18)	thin grey chert flake		
222-154	(Pit #7 - Lot #18)	light grey chert chunk		
222-155	(Pit #7 - Lot #18)	grey chert flake fragment		
222-156	(Pit #7 - Lot #18)	grey chert flake (thin)		
222-157	(Pit #7 - Lot #18)	thin grey flake fragment (chert)		
222-158	(Pit #7 - Lot #18)	light grey chert flake (curved)		
222-159	(Pit #7 - Lot #18)	grey chert flake (curved)		
222-160	(Pit #7 - Lot #18)	grey chert flake fragment		
222-161	(Pit #7 - Lot #18)	thin grey chert flake fragment		
222-162	(Pit #7 - Lot #18) (twisted)	thin light grey chert flake		
222-163	(Pit #7 - Lot #18)	dark grey chert fragment		
222-164	(Pit #7 - Lot #18)	dark grey chert chunk		
222-165	(Pit #7 - Lot #18) spauling on ventra	grey chert fragment with frost 1 surface		
	<b>.</b>			

222-166 (Pit #7 - Lot #18) grey chert fragment (curved)

138

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<u>Artifact No.</u> U	A80	Provenience/Description	S
222-167	(Pit #7 - Lot #18)	grey chert flake	
222-168	(Pit #7 - Lot #18)	grey chert flake fragment	
222-169	(Pit #7 - Lot #18)	thin grey chert flake fragment	
222-170	(Pit #7 - Lot #18)	dark grey chert flake (twisted)	
222-171	(Pit #7 - Lot #18)	thin dark grey chert flake (twisted)	
222-172	(Pit #7 - Lot #18)	thin dark grey chert flake	
222-173	(Pit #7 - Lot #18)	thin light grey chert flake fragment	
222-174	(Pit #7 - Lot #18)	light grey chert flake fragment	
222-175	(Pit #7 - Lot #18)	grey chert flake fragment (twisted)	
222-176	(Pit #7 - Lot #18)	thin grey chert flake fragment	
222-177	(Pit #7 - Lot #18)	thin grey chert flake (curved)	
222-178	(Pit #7 - Lot #18)	grey chert fragment (twisted)	
222-179	(Pit #7 - Lot #18) fracture	thin grey chert flake with hinge	
222-180	(Pit #7 - Lot #18)	brown chert flake fragment	
222-181	(Pit #7 - Lot #18)	grey chert flake fragment	
222-182	(Pit #7 - Lot #18)	thin grey chert flake	
222-183	(Pit #7 - Lot #18)	light grey chert fragment (chunk)	

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222-184 (Pit #7 - Lot #18) grey chert flake

## Significance

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Artifact No.	UA80	Provenience/Description	Significance	Comments
222-185	(Pit #7 - Lot #18	) grey chert flake chunk (curved)		
222-186	(Pit #7 - Lot #18	) grey chert flake chunk		
222-187	(Pit #7 - Lot #18	) thin light grey chert flake		
222-188	(Pit #7 - Lot #18	) grey chert flake fragment		
222-189	(Pit #7 - Lot #18	) grey chert biface trimming flake		
222-190	(Pit #7 - Lot #18	) brown chert flake		
222-191	(Pit #7 - Lot #18	) grey chert flake fragment (curved)		
222-192	(Pit #7 - Lot #18	) thin brown chert flake		
222-193	(Pit #7 - Lot #18	) grey chert flake fragment (curved)		
222-194	(Pit #7 - Lot #18	) grey chert biface trimming flake		
222-195	(Pit #7 - Lot #18	) thin grey chert flake		
222-196	(Pit #7 - Lot #18	) thin dark grey chert flake (twisted)		
222-197	(Pit #7 - Lot #18	) thin light grey chert flake fragment		
222-198	(Pit #7 - Lot #18	) thin brown chert flake (curved)		
222-199	(Pit #7 - Lot #18	) thin grey chert flake		
222-200	(Pit #7 - Lot #18	) thin grey chert flake		
222-201	(Pit #7 - Lot #18	) brown chert flake		
222-202	(Pit #7 - Lot #18	) grey chert biface trimming flake		

Artifact No.	UA80	Provenience/Description	Significance	Comments
222-203	(Pit #7 - Lot #18)	thin grey chert flake		
222-204	(Pit #7 - Lot #18)	grey chert flake fragment		
222-205	(Pit #7 ⁻ - Lot #18)	thin grey chert flake (twisted)		
222-206	(Pit #7 - Lot #18)	dark grey chert flake fragment		
222-207	(Pit #7 - Lot #18)	curved grey chert flake fragment		
222-208	(Pit #7 - Lot #18)	thin grey chert flake		
222-209	(Pit #7 - Lot #18)	grey chert flake		
222-210	(Pit #7 - Lot #18)	thin grey chert flake (curved)		
222-211	(Pit #7 - Lot #18)	thin dark grey chert flake		
222-212	(Pit #7 - Lot #18)	grey chert flake fragment (twisted)		
222-213	(Pit #7 - Lot #18)	grey chert flake fragment		
222-214	(Pit #7 - Lot #18)	98 small grey flakes		
PSM-184 EMS 26-1 Site #2				Fetter 7-22-80
Artifact No.	UA80	Provenience/Description	Significance	Comments
223-1	(Artifact #G - Lot	#2*) grey chert flake fragment		
223-2	(Artifact #G - Lot	#2) grey chert flake fragment		
223-3	(Artifact #G - Lot	#2) grey_chert_flake_fragment		

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141

Artifact No.	JA80 Provenience/Description	Significance	Comments
223-4	(Artifact #G - Lot #2) grey chert flake fragment		
223-5	(Artifact #E - Lot #3) grey chert biface fragment with heavy use wear along the lateral edges - battered		See Figure 1
223-6	(Artifact #E - Lot #4) grey chert biface fragment - it may be part of the same biface as 223-5 but the grain within the raw material do not appear to be the same		
223-7	(Artifact #D - Lot #5) dark grey chert with patination - possible retouch along dorsal edge and use wear?	3	
223-8A ,	(Artifact #C - Lot #6) grey quartzite flake		
223-8B	(Artifact #C - Lot #6) grey quartzite flake fragment - right dorsal-distal lateral edge retouch and in vial		
223-9	(Artifact #F - Lot #7) large thick grey chert flake with battering along lateral edge		
223-10	(Artifact #F - Lot #8) 4 small grey quartzite flakes		
223-11	(Artifact #F - Lot #8) grey quartzite biface trimming flake		
223-12	(Artifact #F - Lot #8) grey quartzite biface trimming flake		
223-13	(Artifact #F - Lot #8) grey quartzite biface trimming flake		
223-14	(Artifact #F - Lot #8) grey quartzite biface trimming flake		
223-15	(Artifact #F - Lot #8) grey quartzite biface trimming flake		

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PSM-184 cont	inued		
Artifact No.	. UA80 Provenience/Description	Significance	Comments
223-16	(Artifact #F - Lot #8) grey chert flake		
223-17	(Artifact #F - Lot #8) grey chert (banded) flake		
223-18	(Artifact #F - Lot #8) grey quartzite flake fragment		
223-19	(Artifact #F - Lot #8) grey quartzite flake fragment		
PSM-182	- -		
EMS 26-1 Site #3		Date Collected	S. Fetter d: 7-22-80
Artifact No.	. UA80 Provenience/Description	Significance	Comments
224-1	(Artifact #C - Lot #1) green-grey chalky chert burin fragment		
224-2	(Artifact #F – Lot #2) light grey chalky chert flake fragment		
224-3	(Artifact #D - Lot #3) light grey chalky chert flake fragment		
224-4	(Artifact #E - Lot #4) mottled grey (chalky) chert flake - possible lateral use wear		
224-5	(Artifact #B - Lot #5) chalky grey chert flake with possible unifacial retouch		
224-6	(Artifact #A - Lot #6) chalky grey chert flake with unifacial retouch and use wear	· .	143
224-7A and 7B	(Pit #1, bottom of 2nd level - Lot #7) varigrade grey chert very large flake		κ <b>υ</b>

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Artifact No.	UA80 Provenience/Description	Significance	Comments
224-8	(Pit #1, bottom of 2nd level - Lot #7) light sandy brown flake		
PSM-183			
EMS 26-1 Site #4	· ·	Date Collected	S. Fetter : 7-22-80
Artifact No.	UA80 Provenience/Description	Significance	Comments
225-1	(Artifact #1 - Lot #1) thin black biface trimming flake - curved		
225-2	(Artifact #2 - Lot #2) light grey flake - twisted		
225-3	(Artifact #3 - Lot #3) grey translucent chert blade- like flake		
225-4	(Artifact #4 - Lot #4) grey chert long flake		
225-5	(Artifact #5 - Lot #5) grey-brown flake with something happening on the bottom	1	
225-6	(Artifact #A - Pit #A - Lot #6) grey chert blade-like flake	•	
225 <b>-7</b>	(Pit #C - Lot #7) large grey chert blade-like flake*		
225-8	(Pit #C - Lot #8) large grey chert chunk fragment - twisted		
225-9	(Pit #C - Lot #8) large grey chert chunk fragment - twisted	ι.	
*This is an e	ktremely large flake similar to UA80 224-1.		

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Artifact No.	UA80 Provenience/Description	Significance	Comments
225-10	(Pit #C - Lot #8) large quite thin grey chert flake - curved		
225-11	(Pit #C - Lot #8) large grey chert chunk fragment with hinge fracture		
225-12	(Pit #C - Lot #8) large grey chert chunk fragment		
225-13	(Pit #C - Lot #8) light grey chert chunk		
225-14	(Pit #C - Lot #8) thin patinated grey chert flake - twisted with hinge fracture		
225-15	(Pit #C - Lot #8) grey chert flake		
225-16	(Pit #C - Lot #8) large grey chert chunk with hinge fracture		
225-17	(Pit #C - Lot #8) large grey chert flake fragment		
255-18	(Pit #C - Lot #8) thin grey chert flake with long thin flake removed along bottom		
255-19	(Pit #C - Lot #8) thin grey chert flake		
255-20	(Pit #C - Lot #8) patinated grey chert blade-like. flake		
225-21	(Pit #C - Lot #8) thin grey chert flake - curved		
225-22	(Pit #C - Lot #8) thin grey chert blade-like		
225-23	(Pit #C - Lot #8) thin grey chert flake		

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145

Artifact No. UA	A80	Provenience/Description	Significance	Comments
225-24	(Pit #C - Lot #8)	grey chert flake - twisted		
225-25	(Pit #C - Lot #8)	grey chert flake		
225-26	(Pit #C - Lot #8)	grey chert flake		
225-27	(Pit #C - Lot #8)	grey chert chunk		
225-28	(Pit #C - Lot #8)	light grey translucent chert flake		
225-29	(Pit #C - Lot #8)	grey chert chunk	· · · ·	
225-30 .	(Pit #C - Lot #8)	light grey chert flake		
225-31	(Pit #C - Lot #8)	patinated grey chert flake - curved		
225-32	(Pit #C - Lot #8)	thin grey chert flake		
225-33	(Pit #C - Lot #8)	thin grey chert flake fragment		
225-34	(Pit #C - Lot #8)	grey chert flake fragment		
225-35	(Pit #C - Lot #8)	thin grey chert flake fragment	•	
225-36	(Pit #C - Lot #8)	grey chert flake fragment		
225-37	(Pit #C - Lot #8)	thin light grey chert flake fragment	,	
225-38	(Pit #C - Lot #8) twisted	thin grey chert flake fragment -		
225-39	(Pit #C - Lot #8)	patinated grey chert, flake		
225-40	(Pit #C - Lot #8)	brown chert flake fragment -		
225-41	(Pit #C - Lot #8)	light grey chert flake fragment		

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PSM-183

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Artifact No.	UA80	Provenience/Description		Significance	Comments
225-42	(Pit #C - Lot #8	) light grey translucent fragment	-		
225-43	(Pit #C - Lot #8	) grey (patinated) chert fragment	<b>*</b> .		
225-44	(Pit #C - Lot #8	) black chert flake - curved			
225-45	(Pit #C - Lot #8	) black chert flake fragment			
225-46	(Pit #C - Lot #8	) black chert flake			
225-47	(Pit #C - Lot #8	) black chert flake (thin)			
225-48	(Pit #C - Lot #8	) black chert flake - curved			
225-49	(Pit #C - Lot #8	) black chert flake			
225-50	(Pit #C - Lot #8	) black chert fragment			
225-51	(Pit #C - Lot #8	) thin grey chert flake			
225-52	(Pit #C - Lot #8	) thin grey chert flake - curved			
225-53	(Pit #C - Lot #8	) grey chert fragment			
225-54	(Pit #C - Lot #8	) thin grey chert flake			
225-55	(Pit #C - Lot #8	) grey chert fragment			
225-56	(Pit #C - Lot #8	) black chert flake			
225-57	(Pit #C - Lot #8	) black chert flake	rie -		
225-58	(Pit #C - Lot #8	) black chert flake (blade-like)			
225-59	(Pit #C - Lot #8	) black chert flake	,		

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Artifact No. l	JA80	Provenience/Description	Significance	Comments
225-60	(Pit #C - Lot #8)	black chert flake		
225-61	(Pit #C - Lot #8)	thin black chert flake		
225-62	(Pit #C - Lot #8)	thin black chert flake		
225-63	(Pit #C - Lot #8)	black chert flake - thin and curved		
225-64	(Pit #C - Lot #8)	thin black chert flake		
225-65*	(Pit #C - Lot #8)	grey chert flake		
225-66	(Pit #C - Lot #8)	grey chert flake fragment		
225-67	(Pit #C - Lot #8) fragment	thin grey chert (translucent) flake		
225-68	(Pit #C - Lot #8)	thin black chert flake		
225-69	(Pit #C - Lot #8)	black chert flake - curved		
225-70	(Pit #C - Lot #8)	black chert fragment - curved		
225-71	(Pit #C - Lot #8)	black chert biface trimming flake		
225-72	(Pit #C - Lot #8)	black chert flake - curved		
225-73	(Pit #C - Lot #8)	thin black chert flake		
225-74	(Pit #C - Lot #8)	black chert flake - curved		
225-75	(Pit #C - Lot #8)	black chert flake		
225-76	(Pit #C - Lot #8)	black chert flake		
*From this num	ber onwards, the i	tems will be found in envelops.		

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Artifact No. UA80	Provenience/Description
225-77 (Pit	#C - Lot #8) black chert flake - curved
225-78 (Pit	#C - Lot #8) black chert flake - curved
225-79 (Pit	#C - Lot #8) thin black chert flake
225-80 (Pit	#C - Lot #8) black chert flake
225-81 (Pit	#C - Lot #8) grey chert fragment
225-82 (Pit	#C - Lot #8) grey chert flake
225-83 (Pit	#C - Lot #8) black chert flake - curved
225-84 (Pit	#C - Lot #8) black chert fragment
225-85 (Pit	#C - Lot #8) grey chert flake - curved
225-86 (Pit	#C - Lot #8) black chert flake
225-87 (Pit	#C - Lot #8) grey chert flake
225-88 (Pit	#C - Lot #8) black chert flake - slight curve
225-89 (Pit	#C - Lot #8) grey chert flake
225-90 (Pit	#C - Lot #8) thin black chert flake
225-91 (Pit	#C - Lot #8) grey chert fragment
225-92 (Pit	#C - Lot #8) grey chert flake fragment
225-93 (Pit	#C - Lot #8) thin black chert flake

(Pit #C - Lot #8) black chert flake - twisted 225-94

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Artifact No. UA8	30	Provenience	e/Description	Significance	Comments
225-95 (	(Pit #C - Lot	#8) thin black cl	nert flake - twisted		
225-96 (	(Pit #C - Lot	#8) thin black cl	nert flake - twisted		
225-97	(Pit #C - Lot	#8) thin grey che	ert flake	•	
225-98	(Pit #C - Lot	#8) creamy brown	chert flake - twisted	-	
225-99	(Pit #C - Lot	#8) black chert	flake - curved		
225-100	(Pit #C - Lot	#8) black chert	flake fragment		
225-101	(Pit #C - Lot	#8) thin black cl	nert flake		
225-102	(Pit #C - Lot	#8) black chert	flake		
225-103	(Pit #C - Lot	#8) thin black cl	nert flake		
225-104	(Pit #C - Lot	#8) grey chert f	lake fragment		
225-105	(Pit #C - Lot	#8) black chert :	flake - curved		
225-106	(Pit #C - Lot	#8) thin black cl	hert flake		
225-107	(Pit #C - Lot	#8) black chert	flake		
225-108 (	(Pit #C - Lot	#8) black chert :	flake - curved		
225-109	(Pit #C - Lot	#8) black chert	flake - curved		
225-110	(Pit #C - Lot	#8) black chert	flake		
225-111	(Pit #C - Lot	#8) black chert	flake 🗳		
225-112 (	(Pit #C - Lot	#8) black chert			
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(Pit #C - Lot #8) grey chert flake

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224-114(Pit #C - Lot #8) grey chert flake225-115(Pit #C - Lot #8) black chert blade-like flake225-116(Pit #C - Lot #8) thin black chert flake225-117(Pit #C - Lot #8) blade-like grey chert fragment225-118(Pit #C - Lot #8) thin grey chert flake225-119(Pit #C - Lot #8) thin black chert flake225-120(Pit #C - Lot #8) black chert flake - curved225-121(Pit #C - Lot #8) black chert flake - curved225-122(Pit #C - Lot #8) black chert flake - curved225-123(Pit #C - Lot #8) black chert flake - curved225-124(Pit #C - Lot #8) black chert flake - curved225-125(Pit #C - Lot #8) black chert flake - curved225-126(Pit #C - Lot #8) black chert flake - curved225-127(Pit #C - Lot #8) black chert flake fragment225-128(Pit #C - Lot #8) black chert flake fragment225-129(Pit #C - Lot #8) black chert flake225-129(Pit #C - Lot #8) black chert flake225-130(Pit #C - Lot #8) black chert flake with hinge fracture	Artifact No. UA	<b>\80</b>				Provenience/Description	Significance
225-116(Pit #C - Lot #8) thin black chert flake225-117(Pit #C - Lot #8) blade-like grey chert fragment225-118(Pit #C - Lot #8) thin grey chert flake225-119(Pit #C - Lot #8) thin black chert flake225-120(Pit #C - Lot #8) black chert flake - curved225-121(Pit #C - Lot #8) black chert fragment225-122(Pit #C - Lot #8) black chert flake - curved225-123(Pit #C - Lot #8) black chert flake - curved225-124(Pit #C - Lot #8) black chert flake - curved225-125(Pit #C - Lot #8) black chert flake - curved225-126(Pit #C - Lot #8) black chert flake - curved225-127(Pit #C - Lot #8) black chert flake fragment225-128(Pit #C - Lot #8) black chert flake fragment225-128(Pit #C - Lot #8) black chert flake225-129(Pit #C - Lot #8) black chert flake	224-114	(Pit	#C	- Lo	ot #8)	grey chert flake	
225-117(Pit #C - Lot #8) blade-like grey chert fragment225-118(Pit #C - Lot #8) thin grey chert flake225-119(Pit #C - Lot #8) thin black chert flake225-120(Pit #C - Lot #8) black chert flake - curved225-121(Pit #C - Lot #8) black chert fragment225-122(Pit #C - Lot #8) black chert flake - curved225-123(Pit #C - Lot #8) black chert flake - curved225-124(Pit #C - Lot #8) black chert flake - curved225-125(Pit #C - Lot #8) black chert flake - curved225-126(Pit #C - Lot #8) black chert flake - curved225-127(Pit #C - Lot #8) black chert flake fragment225-128(Pit #C - Lot #8) grey chert blade-like flake225-129(Pit #C - Lot #8) black chert flake	225-115	(Pit	#C	- Lo	ot #8)	black chert blade-like flake 🦯 🝾	
225-118(Pit #C - Lot #8) thin grey chert flake225-119(Pit #C - Lot #8) thin black chert flake225-120(Pit #C - Lot #8) black chert flake - curved225-121(Pit #C - Lot #8) black chert fragment225-122(Pit #C - Lot #8) black chert biface trimming flake225-123(Pit #C - Lot #8) black chert flake - curved225-124(Pit #C - Lot #8) black chert flake - curved225-125(Pit #C - Lot #8) black chert flake - curved225-126(Pit #C - Lot #8) black chert flake fragment225-127(Pit #C - Lot #8) black chert flake fragment225-128(Pit #C - Lot #8) grey chert biface trimming flake225-129(Pit #C - Lot #8) black chert flake	225-116	(Pit	#C	- Lo	ot #8)	thin black chert flake	
225-119(Pit #C - Lot #8) thin black chert flake225-120(Pit #C - Lot #8) black chert flake - curved225-121(Pit #C - Lot #8) black chert fragment225-122(Pit #C - Lot #8) black chert biface trimming flake225-123(Pit #C - Lot #8) black chert flake - curved225-124(Pit #C - Lot #8) black chert flake - curved225-125(Pit #C - Lot #8) black chert flake - curved225-126(Pit #C - Lot #8) black chert flake fragment225-127(Pit #C - Lot #8) black chert flake fragment225-128(Pit #C - Lot #8) black chert blade-like flake225-129(Pit #C - Lot #8) black chert flake	225-117	(Pit	#C	- Le	ot #8)	blade-like grey chert fragment	
225-120(Pit #C - Lot #8) black chert flake - curved225-121(Pit #C - Lot #8) black chert fragment225-122(Pit #C - Lot #8) black chert biface trimming flake225-123(Pit #C - Lot #8) black chert flake - curved225-124(Pit #C - Lot #8) black chert blade-like flake225-125(Pit #C - Lot #8) black chert flake - curved225-126(Pit #C - Lot #8) black chert flake fragment225-127(Pit #C - Lot #8) black chert flake fragment225-128(Pit #C - Lot #8) black chert blade-like flake225-129(Pit #C - Lot #8) black chert flake	225-118	(Pit	#C	- Lo	ot #8)	thin grey chert flake	
225-121(Pit #C - Lot #8) black chert fragment225-122(Pit #C - Lot #8) black chert biface trimming flake225-123(Pit #C - Lot #8) black chert flake - curved225-124(Pit #C - Lot #8) black chert blade-like flake225-125(Pit #C - Lot #8) black chert flake - curved225-126(Pit #C - Lot #8) black chert flake fragment225-127(Pit #C - Lot #8) black chert flake fragment225-128(Pit #C - Lot #8) black chert blade-like flake225-129(Pit #C - Lot #8) black chert flake	225-119	(Pit	#C	- Lo	ot #8)	, thin black chert flake	
<ul> <li>(Pit #C - Lot #8) black chert biface trimming flake</li> <li>(Pit #C - Lot #8) black chert flake - curved</li> <li>(Pit #C - Lot #8) black chert blade-like flake</li> <li>(Pit #C - Lot #8) black chert flake - curved</li> <li>(Pit #C - Lot #8) black chert flake fragment</li> <li>(Pit #C - Lot #8) grey chert biface trimming flake</li> <li>(Pit #C - Lot #8) black chert blade-like flake</li> <li>(Pit #C - Lot #8) black chert blade-like flake</li> <li>(Pit #C - Lot #8) black chert flake fragment</li> <li>(Pit #C - Lot #8) black chert blade-like flake</li> <li>(Pit #C - Lot #8) black chert blade-like flake</li> <li>(Pit #C - Lot #8) black chert flake</li> </ul>	225-120	(Pit	#C	- Lo	ot #8)	black chert flake - curved	
225-123(Pit #C - Lot #8) black chert flake - curved225-124(Pit #C - Lot #8) black chert blade-like flake225-125(Pit #C - Lot #8) black chert flake - curved225-126(Pit #C - Lot #8) black chert flake fragment225-127(Pit #C - Lot #8) grey chert biface trimming flake225-128(Pit #C - Lot #8) black chert flake225-129(Pit #C - Lot #8) black chert flake	225-121	(Pit	#C	- Lo	ot #8)	black chert fragment	
<ul> <li>(Pit #C - Lot #8) black chert blade-like flake</li> <li>(Pit #C - Lot #8) black chert flake - curved</li> <li>(Pit #C - Lot #8) black chert flake fragment</li> <li>(Pit #C - Lot #8) grey chert biface trimming flake</li> <li>(Pit #C - Lot #8) black chert blade-like flake</li> <li>(Pit #C - Lot #8) black chert flake</li> <li>(Pit #C - Lot #8) black chert flake</li> </ul>	225-122	(Pit	#C	- Lo	ot #8)	black chert biface trimming flake	
<ul> <li>(Pit #C - Lot #8) black chert flake - curved</li> <li>(Pit #C - Lot #8) black chert flake fragment</li> <li>(Pit #C - Lot #8) grey chert biface trimming flake</li> <li>(Pit #C - Lot #8) black chert blade-like flake</li> <li>(Pit #C - Lot #8) black chert flake</li> <li>(Pit #C - Lot #8) black chert flake</li> </ul>	225-123	(Pit	#C	- Lo	ot #8)	black chert flake - curved	
<ul> <li>(Pit #C - Lot #8) black chert flake fragment</li> <li>(Pit #C - Lot #8) grey chert biface trimming flake</li> <li>(Pit #C - Lot #8) black chert blade-like flake</li> <li>(Pit #C - Lot #8) black chert flake</li> <li>(Pit #C - Lot #8) black chert flake</li> </ul>	225-124	(Pit	#C	- Lo	ot #8)	black chert blade-like flake	
225-127(Pit #C - Lot #8) grey chert biface trimming flake225-128(Pit #C - Lot #8) black chert blade-like flake225-129(Pit #C - Lot #8) black chert flake	. 225-125	(Pit	#C	- Lo	ot #8)	black chert flake - curved	
225-128(Pit #C - Lot #8) black chert blade-like flake225-129(Pit #C - Lot #8) black chert flake	225-126	(Pit	#C	- Lo	ot #8)	black chert flake fragment	
225-129 (Pit #C - Lot #8) black chert flake	225-127	(Pit	#C	- L	ot #8)	grey chert biface trimming flake	
	225-128	(Pit	#C	- Lo	ot #8)	black chert blade-like flake	
225-130 (Pit #C - Lot #8) black chert flake with hinge fracture	225-129	(Pit	#C	- Lo	ot #8)	black chert flake	
	225-130	(Pit	#C	- Lo	ot #8)	black chert flake with hinge fracture	

225-131 (Pit #C - Lot #8) black chert biface trimming flake

Comments

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DCM_183	continued
104-102	Concinaca

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Artifact No.	JA80 Provenience/Description	Significance	Comments
225-132	(Pit #C - Lot #8) black chert flake fragment		
225-133	(Pit #C - Lot #8) black chert flake - curved		
225-134	(Pit #C - Lot #8) grey chert flake fragment		
225-135 to 265	(Pit #C – Lot #8) 130 very small grey/black chert flakes and flake fragments		
Note: one mor	re flake from this test pit Artifact #300.		
225-266A	(Pit #C - Lot #9) black chert projectile point - base		
225-266B	(Pit #C - Lot #10) black chert projectile point - mid section		
225-267	(Pit #C - Lot #11) mid-section of a projectile point - black chert		See Figure 1
225-268	(Pit #C - Artifact #D - Lot #12) basal section of a black chert projectile point		
225-269	(Pit #D - Lot #13) grey chert flake - curved		
225-270	(Pit #D - Lot #13) grey chert flake - curved		
225-271	(Pit #D - Lot #13) grey chert flake		
225-272	(Pit #D - Lot #13) grey chert fragment		
225-273	(Pit #D - Lot #13) grey chert flake - curved		
225-274	(Pit #D - Lot #13) brown chert fragment		
225-275	(Pit #D - Lot #13) grey chert flake fragment -		
225-276	(Pit #D - Lot #13) grey chert flake fragment		

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Artifact No.	UA80	Provenience/Description	Significance	Comments
225-277	(Pit #D - Lot #13) g	grey chert flake		
225-278	(Pit #F - Lot #14) s	small grey chert flake		
225-279	(Pit #F - Lot #14) s	small grey chert flake - curved		
225-280	(Pit #F - Lot #14) s	small grey chert flake - curved		
225-281	(Pit #F - Lot #14) 1	light grey chert fragment		
225-282	(Pit #F - Lot #14) g	grey chert flake - curved		
225-283	(Pit #F - Lot #14) d	lark chert flake		
225-284	(Pit #F - Lot #14) 1 - curved	light grey translucent chert flake		
225-285	(Pit #F - Lot #14) g	grey chert fragment		
225-286	(Pit #F - Lot #14) 1	light grey chert flake fragment		
225-287	(Pit #F - Lot #14) g	grey chert fragment		
225-288	(Pit #F - Lot #14) b	prown chert flake fragment		
225-289	(Pit #F - Lot #14) g	grey chert flake		
225-290	(Pit #F - Lot #14) d	lark grey chert fragment		
225-291	(Pit #F - Lot #14) g	grey translucent chert flake		
225-292	(Pit #F - Lot #14) d	lark grey biface trimming flake		
225-293	(Pit #F - Lot #14) g	grey translucent chert flake		

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225-294 (Pit #F - Lot #14) light grey chert flake

Artifact No. UA80	Provenience/Description	Significance
225-294 (Pit #F -	Lot #14) light grey chert flake	
225-295 (Pit #F -	Lot #14) light grey chert flake	
	Lot #14) small grey chert flake fragment cent brown chert flake fragment	
225-297 (Pit #F -	Lot #14) brown chert flake fragment	
225-298 (Pit #F -	Lot #14) tiny translucent grey chert flake	
225-299 (Pit #F -	Lot #14) small translucent grey chert flake	
225-300 (Pit #C -	Lot #8) grey chert flake	
225-301 (Pit #F - blade-like	Lot #15) dark grey translucent chert chunky e flake	
	Lot #16) grey chert biface trimming flake rge portion of the edge	
225-303 (Pit #H -	Lot #17) light grey chert flake	

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#### PSM-190

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EMS 27-1B

#### B. Gannon Date Collected: 7-22, 7-23-80

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Artifact No.	UA80 Provenience/Description	Significance	Comments
235-1	(Surface, Area I, BLG) black chert stemmed and eared projectile point		See Figure 1
235-2	(Bank edge - confluence of a stream and the Atigun River, RJD p. 59) long bone shaft fragment		
235-3	(TP? - found above Pothunter's screen and disturbed bone concentration - just below sod layer - approximately 5 cm deep - Area II, LB) long bone shaft fragment		·
235-4	(Test Trench l extension, surface to 5 cm depth, Area III, LB) 5 small bone fragments		
	UA80 Faunal Remains	Number of Indi Minimum	viduals Maximum
	Area III - Pothunter's		
•	70 Phalanges - <u>Rangifer</u> tarandus (caribou)	3	12
	13 Carpals/tarsals and 1 platella - <u>Rangifer tarandus</u> (caribou)	-	- ,
	11 Metatarsals - <u>Rangifer tarandus</u> (caribou)	5	9
	10 Metacarpals - <u>Rangifer</u> tarandus (caribou)	5	10
	47 Long bone shaft fragment - <u>Rangifer tarandus</u> (caribou)	-	-
	28 Long bone Epiphyseal fragment - <u>Rangifer</u> tarandus (caribou)	-	-
	10 Scapula/scapulae fragments - <u>Rangifer</u> tarandus (caribou)	3	4
	15 Rib and sternum fragments - <u>Rangifer tarandus</u> (caribou)	-	-
	l Immature vertebra - <u>Rangifer tarandus</u> (caribou)	1 ,	1
	21 Unidentified bone fragments	-	_

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PSM-190 continued	•	
UA80 Faunal Remains	Number of I Minimum	Individuals Maximum
OROU Faunal Remains		Maximum
Area III - Pothunter's (continued)		,
Small mammal bones:		
3 Right femurs	3	3
3 Left humeri 2 Right humeri	3	5
l Right tibia	1	2
l Left tibia		
2 Right innominates (different sizes)	3	3
l Left innominate		
l Left scapula	1	1
4 Complete skulls (ground squirrel)	5	8
4 Skull fragments (unidentified)		
2 Bird humeri	1	2
Possible sheep:		
11 Unidentified phalanges	-	-
Test Trench I, Area III - Surficial Bone Scatter		
16 Miscellaneous bones/fragments	-	-

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PSM-191

237-7

237-8

237-9

237-10

237-11

chert flake

chert flake

chert flake

grey chert flake

chert flake - curved

rom-191				
AAS 027 Site #1			Date Collected	B. Cannon : 8-5-80
Artifact No. UA	480	Provenience/Description	Significance	Comments
237-1	(Surface find, N44E grey chert flake	7'5" from datum, Lot #16) small	- . *	
237-2	(Surface find, N34E grey chert flake	12'2" from datum, Lot #17) smal	l thin	
237-3	(Surface find, N40E grey chert flake	12'6" from datum, Lot #18) smal	1	
237-4	(Surface find, N41E chert biface tip	13'6" from datum, Lot #19) grey	,	See Figure 1
237-5	(Surface find, N46E grey chert	15'3" from datum, Lot #20) larg	je	
237-6	(Surface find, N60E chert blade-like fla	16'1" from datum, Lot #21) grey ake		
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237-12 (Surface find, N85E 18'9" from datum, Lot #27) thin grey chert flake

(Surface find, N66E 15'0" from datum, Lot #22) grey

(Surface find, N70E 16'7" from datum, Lot #23) grey -

(Surface find, N74E 17'9" from datum, Lot #24) grey

(Surface find, N76E 17'5" from datum, Lot #25) grey

(Surface find, N82E 17'2" from datum, Lot #26) thin

#### PSM-191 continued

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Artifact No.	UA80 Provenience/Description	Significance	Comments
237-13	(Surface find, N89E 18'8" from datum, Lot #28)		
237-14	(Surface find, S89E 19'1" from datum, Lot #29) grey chert flake		·
237-15	(Surface find, S82E 24'11" from datum, Lot #30) small grey chert flake		
237-16	(Surface find, S69E 28'1" from datum, Lot #31) grey chert bifacial trimming flake		
237-17	(Surface find, S31E 4'9" from datum, Lot #32) grey chert flake		
237-18	(Surface find, S27E 28'2" from datum, Lot #33) dark grey chert flake		
237-19	(Surface find, S23W 27'1" from datum, Lot #34) long bone shaft fragment		
237-20	(Surface find, S8E 4'3" from datum, Lot #35) long bone shaft fragment		
237-21	(Surface find, N65W 2'9" from datum, Lot #30) ulna of small rodent		
237-22 to 24	(Pit #1, 1" depth, S75E 13'5" from datum, SA, Lot #37) three small grey chert flakes		
237-25	(Pit #2, 2-3" depth, N54E 9'0" from datum, SA, Lot #38) grey chert flake		
237-26	(Pit #2, 2-3" depth, N54E 9'0" from datum, SA, Lot #38) grey chert flake		
237-27 to 29	(Pit #2, 2-3" depth, N54E 9'0" from datum, SA, Lot #38) three small grey chert flakes		

PSM-192

AAS 027 Site #2

Artifact No. UA80	Provenience/Description	Significance	Comments
238-1 (Surface find, S06 black chert flake	W 21'2" from datum, Lot #39) thick 🚿		
238-2 (Surface find, S08 grey chert flake	E 19'2" from datum, Lot #40) light		
238-3 (Surface find, S14 black chert flake	E 76'1" from datum, Lot #41) chunky		
238-4 (Surface find, S09 grey chert flake -	E 88'2" from datum, Lot #42) translucent curved		
238-5 (Surface find, N76 grey chert flake	E 61'6" from datum, Lot #43) mottled		
238-6 (Surface find, N53 obsidian flake - s	E 54'6" from datum, Lot #44) black mall and thin		
•	E 65'4" from datum, Lot #45) unifacially sal (distal and lateral) edge] blue/blac se wear		See Figure 1
238-8 (Surface find, N63 grey chert flake -	E 67' from datum, Lot #46) small dark curved		
238-9 (Surface find, N51 flake	E 73' from datum, Lot #47) grey chert		
-	W 33'6" from datum, Lot #48) light ucent) flake fragment		
238-11 (Surface find, N35 grey angular debri	W 46'l" from datum, Lot #49) small s		

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PSM-192 continued

Artifact No. UA	80 .	Provenience/Descri	iption		Significance	Comments
	(Surface find, N60W blade-like black ch		Lot #50)	small		
	(Surface find, S82W black chert nodule		Lot #51)	small		
PSM-193						
AAS 027 Site #3					Date Collected	B. Cannon 8-9-80
<u>Artifact No.</u> UA	80	Provenience/Descri	ption		Significance	Comments
	(Surface find, S63W (blue) grey chert w		Lot #52)	veined		
	(Surface find, N28W chunk	15'6" from datum,	Lot #53)	quartz	•	
	(Surface find, N22E complete projectile base					See Figure 1
	(Surface find, N26E fragment - grey/grey	-	Lot #55)	biface		See Figure 1
	(Surface find, S40E fragment with possil			core	-	
	(Surface find, N61W chert pebble with sr		•	dark grey		
	(Pit #5, 1-1/2" belo Lot #58) brown chert	-	5'5" from	datum,		

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PSM-069

AAS 028 Site #1 B. Cannon Date Collected: 7-30-80

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Artifact No.	UA80	Provenience/Description	Significance	Comments
240-1	•	ska/Cook backdirt pile, S43E 66 all grey chert angular debris	from	
240-2	(Surface find, 8 c burned wood	m SW of Pit #1, DKH note 118, L	ot #60)	
240-3	(Pit #2, humic lay	er, DKH notes pp. 126-127) humi	c charcoal	
240-4 to 28	(Pit #2, in turf/h 25 bone fragments	umus, DKH notes pp. 126-127, Lo	; #28)	
240-29	(Pit #19, N3OE 5'2 below surface	" from datum, Lot #68) bone fra	yment	,
240-Bones	AAS 028/1/C, Lot #	oone shaft fragments - caribou ( 67 bone concentration old Alyeska/Cook test pits)	32)	
240-Bones	AAS 028/1/C, Lot #	ble longbone shaft fragment - ca 67 bone concentration old Alyeska/Cook test pits)	ıribou (15)	
PSM-FIND				
EMS 28-1 (Bac) Site #1	khoe)		Da	R.Jane Dale te Collected: 8-22-80
Artifact No.	08AU	Provenience/Description	Significance	Comments
248-1	(Backdirt of parke grey/black chert f	r squirrel colony – at N #21B) n lake	nottled	

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PSM-194				
AAS 029 Site #1			E Date Collected:	3. Cannon 8-3-80
Artifact No.	UA80	Provenience/Description	Significance	Comments
241-1	(Pit #2, 1-2" depth, small clear chert f]	S5E 2'9" from datum, KM, Lot #63) ake fragment		
241-2	•	12'9" from datum, located in south H Book #3 p. 139, Lot #64) caribou		
241-3A and 3B ·		12'5" from datum, located in south H Book #3 p. 139, Lot #65) right a large rodent		
PSM-185				
AAS 029 (MP ) Site #2	.63 & 150/April 80)		E Date Collected:	3. Gannon 8-2, 8-5-80
Artifact No.	UA80	Provenience/Description	Significance	Comments
232-1	(Surface find, on hi flake	11, DKH pp. 146-147) tiny grey chert		
232-2	(Flake scatter A, DF	) small black chert flake		
232-3	(Flake scatter A, DF	) black chert flake		
232-4	(Flake scatter A, DR	) tiny black chert flake		
232-5	(Flake scatter A, DF	) black chert flake		

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232-6 (Flake scatter B, DR) grey chert flake

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PSM-FIND					
EMS 30 Site #1				R. Jan Date Collected: 8-21	
Artifact No.	UA80	Provenience/Description	and the second sec	Significance	Comments
249-1	pit, 25' south of	ost heave adjacent to Alyeska backhoe trench N #4(D), RJaD bifacially worked flat river	Book #2		
CHN-FIND					
AAS 035 (MP 1 Site #1	94.26/April 80)			B. Can Date Collected: 8-7-	
Artifact No.	UA80	Provenience/Description		Significance	Comments
245-1	Lot #66) tobasco s	west of centerline, DH Book auce bottle neck - found nea pipeline construction) heart	r modern		
CHN-012			•		
EMS 36-3 Site #1				R. Jan Date Collected: 8-19	
Artifact No.	UA80	Provenience/Description		Significance	Comments
251-1	(Hole N5(B) distal - right side, no c	end of caribou humerus frag bvious cut marks	ment		
	(N6) l tin of orga 8 feet	nic soil sample, from a dept	h of		

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CHN-010				
EMS 39-3			S. Date Collected:	Fetter
Site #2			Date Collecteu:	0-11-00
Artifact No.	UA80	Provenience/Description	Significance	Comments
226-1	(Lot #1) banded gro	ey chert biface fragment (large)		
WIS-FIND				
EMS 45-1 Site #1			S. Date Collected:	Alloway , 8-14-80
Artifact No.	UA80	Provenience/Description	Significance	Comments
247-1	(Rip-rap on access possible tool	road) bifacially worked pebble -		
WIS-FIND				
EMS 45-2A Site #1 (Knol	l top of island)		K. Date Collected:	Leitgeb 8-7-80
Artifact No.	UA80	Provenience/Description	Significance	Comments
230-1	Flake (possible) -			
WIS-051				
EMS 45-3 Site #1			K. Date Collected:	Leitgeb 8-9-80
Artifact No.	UA80	Provenience/Description	Significance	Comments
246-1	(Eastern half of so housepit	quare) greasy soil sample from possible		
246-2	Soil sample from po bone and charcoal	ossible housepit - may contain burned		
246-3	Charcoal from possi	ble housepit		

Artifact No.	_ UA80	Provenience/Description	Significance	Comments
246-4	Charcoal sampl	e from possible housepit	·	
264-5	Burned bone fr	om possible housepit	ъ.	
WIS-003 ADDE	NDUM			
EMS 46-1 Site #1			Date Coll	K. Leitgeb lected: 7-29-80
Artifact No.	UA80	Provenience/Description	Significance	Comments
207-1		ace collection) black chert retouch fla of a broken scraper)	ke	
207-2		ace collection) black chert unifacially g all edges (knife?)		See Figure 1
207-3	(Bag #7 – surf flake	ace collection) striated grey-black che	ert	
207-4	(Bag #7 – surf	ace collection) grey-black chert chunk		
207-5		ce of TP - nothing in TP #1, RGT) black th possible use wear		
207-6	(TP #1 – surfa fragment	ce of TP, RGT) grey (quartzite?) flake		
207-7	(TP #1 - surfa	ce of TP, RGT) black obsidian flake		
207-8	(TP #2 - KL) b	lack chert flake fragment		
207-9	(TP #2 - KL) 1	small black chert flake	•,	
207-10	(TP #2 - KL) 1	small grey chert flake fragment		

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WIS-FIND			
EMS 46-1 Site #2		Date Collected	K. Leitgeb 1: 7-29-80
Artifact No.	UA80 Provenience/Description	Significance	Comments
208-1	(Isolated find) small obsidian flake - cortex and possible use wear along both lateral edges		
WIS-019 ADDEN	IDUM		
EMS 46-1 Site #3		. Date Collected	K. Leitgeb 1: 8-2-80
Artifact No.	UA80 Provenience/Description	Significance	Comments
209-1	(Surface collection) grey chert micro-blade fragment - medial section		
209-2	(TP #2 - NE Quad) l chunk quartz criptal, l chunk quartz, l chunk black chert		
209-3*	(TP #2 - NE Quad) striated grey (black) flake		
209-4*	(TP #2 - NE Quad) grey chert flake		
209-5*	(TP #2 - NE Quad) grey chert flake fragment		
209-6	(TP #2 - NE Quad) grey and black chert flakes - one may be a "long thin microblade waste flake?" (KL on the bag) - 18 flakes		
209-7*	(TP #2 - NE Quad) black chert flake fragment		
209-8	(TP #2 - NW Quad) 6 small grey chert flake fragments and 5 small black chert flake fragments		
*These flates	ware given concrete numbers because they were large enough	to unite on	

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*These flakes were given separate numbers because they were large enough to write on.

166

## WIS-019 ADDENDUM continued

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Artifact No. I	UA80	Provenience/Description	Significance	e <u>Comments</u>
209-9	(TP #2 – SW Quad) gr grey soil	cey chert flake fragment - foun	d in	
209-10	(TP #2 – SW Quad) gi soil	rey quartzite? flake - found in	grey	
209-11	(TP #2 – SW Quad) gi soil	rey quartzite? flake - found in	grey	
209-12		grey (and a few black) chert a gments – found in grey soil	nd	
209-13	(TP #2 - SE Quad) gr	rey chert flake fragment		
209-14	(TP #2 - SE Quad) gr	rey chert flake fragment		
209-15	(TP #2 - SE Quad) 1 flakes grey and blac	chunk of grey chert and 18 sma k chert	11	
209-16	(TP #2 – SE Quad) 6 be identifiable)	pieces of bone (Note: some ma	У.	
BET-123				
EMS 48-0 Site #2			Date Co	S. Fetter ollected: 8-8-80
<u>Artifact No.</u> l	JA80	Provenience/Description	Significance	<u>Comments</u>
227-1		Lot #1) frost heave – bipolar use wear along distal end	lateral	See Figure 1
227-2A	(Borehole C - TP #F2	, Lot #2) large flake sand sto	ne?	
227-2B	(Borehole C - TP #F2 with 227-2A	, Lot #2) flake fragment - it	fits	

BF	ET-	1	2	2

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#### EMS 48-0 Site #3

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S. Fetter

Date Collected: 8-12-80

Artifact No.	UA80 Provenience/Description	Significance	Comments
229-1A	(Borehole #B, Lot #1) black chert with cortex possibly retouched flake fragment (3 pieces total) - proximal part		
229-1B	(Borehole #B, Lot #1) medial segment of flake fragment with what Sharon refers to as a graver on distal end		
229-1C	(Borehole #B, Lot #1) distal segment of flake fragment with possible retouch along the distal edge		
BET-055		1	
EMS 48-0 Site #4		Date Collected:	S. Fetter 8-12-80
Artifact No.	UA80 Provenience/Description	Significance	Comments
228-1	(Borehole #D - TV's pit) l obsidian flake removed for INAA by John Cook		
228-2	(Borehole #D - TV's pit) l obsidian flake removed for INAA by John Cook		
228-3	(Borehole #D - TV's pit, Lot #3) 13 small black obsidian flakes and 1 small black chert flake		
228-4	(Borehole #D - original pit, Lot #5) blue-grey banded chert possible blade fragment - retouch along left dorsal edge		
228-5	(Borehole #D - original pit, Lot #4) blue-grey banded chert possible flake fragment		
228-6*	(Borehole #D - original pit, Lot #5) sandy colored sand- stone? with frost spauls on ventral surface		

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*A note was written on the bag - "white possibly fits what was left in pit".

DL1-042	BET	-042
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EMS 48-2A Site #1 S. Fetter Date Collected: 8-5-80

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169

Artifact No.	UA80 Provenience/Description	Significance	Comments
231-1	(Artifact #9, Lot #1) black obsidian flake fragment		
231-2	(Artifact #2, Lot #2) white chalky sandstone chunk		
231-3	(Artifact #3, Lot #3) black obsidian point fragment - possibly the base	S	See Figure 1
231-4	(Artifact #4, Lot #4) white sandstone flake		
231-5	(Artifact #10, Lot #5) quartz crystal flake fragment with possible use wear		
231-6	(Artifact #13, Lot #6) quartz crystal flake fragment		
231-7	(Artifact #14, Lot #7) large basalt biface trimming flake – heavily patinated		
BET-125	· · · ·		
EMS 51-3 Site #1	• •	Date Collect	K. Leitgeb ed: 7-23-80
Artifact No.	UA80 <u>Provenience/Description</u>	Significance	Comments
211-1	RJaD - surface find - grey quartzite flake (patinated?)		
211-2	KL – surface find – grey quartzite/chert? possible flake with frost spauls		
211-3	KL – surface find – grey quartzite flake (same material as in 211-1)		
211-4	KL – surface find – grey quartzite – it may be heavily patinated chert		
211-5	(MW - Test Pit - first flake found) brown/red quartzite flake		

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Artifact No.	UA80	Provenience/Description	Significance	Comments		
211-6	(MW - Test Pit - 2n bifacially worked	d flake) obsidian cortex and				
BET-126		۴.				
EMS 51-3 Site #2			K. Date Collected:	Leitgeb 7-26-80		
Artifact No.	UA80	Provenience/Description	Significance	Comments		
212-1	(KL - surface find)	lateral edge of projectile point				
212-2	(KL - surface find)	grey chert flake fragment				
212-3	(KL - surface find)	grey-black chert chunk				
BET-FIND - Pos	BET-FIND - Possibly 082 Addendum					
EMS 51-3 Site #3	ı	•	K. Date Collected:	Leitgeb 7-23-80		
Artifact No.	08AU	Provenience/Description	Significance	Comments		
213-1	(Surface find, RGT) with hinge fracture	grey-black fine ground chert				
BET-006 ADDENI	DUM					
EMS 54-1B Site #1			K. Date Collectéd:	Leitgeb 7-2 <b>8-</b> 80		
Artifact No. 1	08AL	Provenience/Description	Significance	Comments		
204-1	(Isolated flake - K	L) basalt flake fragment				
204-2	(Isolated flake - F - broken for Cook	PR) large obsidian (black) flake				

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BET-058

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EMS 60-1 Site #1

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R. J. Dale Date Collected: 9-8-80

Artifact No.	UA80	Provenience/Description	Significance	Comments
250-1		e of previously (Alyeska?) tested area ting materials pit) possible flake of		
250-2		e of previously (Alyeska?). tested area ting materials pit) grey igneous chunk		
250-3		e of previously (Alyeska?) tested area ting materials pit) possible flake gneous rock		
250-4		e of previously (Alyeska?) tested area ting materials pit) flake of grey		
250-5		e of previously (Alyeska?) tested area ting materials pit) grey igneous flake		
LIV-FIND				
EMS 71-0A Site #1			K. Date Collected:	Leitgeb 7-14-80
Artifact No.	UA80	Provenience/Description	Significance	Comments
205-1	(On top of knoll)	- Lost Creek black chert flake		
Site #2				
206-1	(Lost Creek slope - grey chert fragment	- 25' up from gravel pit – Area #B) : with cortex		

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<b>DIA-100</b>	LI	٧-	1	80
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EMS 71-3A Site #1 K. Leitgeb Date Collected: 7-15-80

Artifact No.	JA80 Provenience/Description	Significance	Comments
218-1	(Surface - half buried in moss - KL) black chert core fragment - patinated		
218-2	(NE/4 of TP #1 - MW) grey chert fragment		
218-3	(NW/4 of TP #1 - PR) grey chert flake fragment - patinated		
218-4	(SE/4 of TP #1 - RGT) two small grey chert flakes	,	ı
218-5	(SE/4 of TP #1 - RGT) coarse black chert flake fragment		
218-6	(SE/4 of TP #1 - RGT) coarse black chert flake fragment		
218-7	(SE/4 of TP #1 - RGT) black chert flake fragment		•
218-8 .	(TP #2 - 26' from TAPS) 13 small black chert flakes		·
218-9	(TP #3 - RJaD) black chert chunk		
218-10	(TP #2 - RJaD) black chert flake fragment		
218-11	(TP #2 - RJaD) black chert chunk		
218-12	(TP #2 - RJaD) black chert chunk - patinated		
218-13	(TP #2 - RJaD) black chert chunk		
218-14	(TP #2 - RJaD) grey black chert chunk		
218-15	(TP #2 - RJaD) grey black chert - patinated		
218-16	(TP #2 - RJaD) black chert flake fragment		
218-17	(TP #2 - RJaD) black chert flake fragment - patinated		

LIV-107	· ·			
EMS 71-3A Site #2			Date Collecte	K. Leitgeb ed: 7-15-80
Artifact No.	UA80 Provenience/Description	Signific	ance	Comments
219-1	(60' SE of Site #1 - surface - game trail - Bag #1) black chert flake fragment			
219-2	(60' SE of Site #1 - surface - Bag #2) black chert chunk			
219-3	(60' SE of Site #1 - surface - Bag #2) black chert chunk			
LIV-046				
EMS 71-3A - To Site #3	olovana 9		Date Collecte	K. Leitgeb ed: 7-18-80
Artifact No.	JA80 Provenience/Description	Signific	ance	Comments
210-1	(Knoll #1 - MW - surface collection) grey-black chert flake fragment			
210-2	(Knoll #1 - MW - surface collection) banded grey and black quartzite flake			
210-3	(Knoll #1 - MW - surface collection) black chert flake fragment			
210-4	(Knoll_#1 - MW - surface collection) black chert flake fragment			
210-5	(Knoll #1 – MW – surface collection) black chert flake fragment			
210-6	(Knoll #1 - MW - surface collection) black chert flake fragment			
210-7	(Knoll #2 - PR - surface collection) grey-black chert flake			

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LIV-046 continued

Artifact No.	UA80 Provenience/Description	Significance	Comments
210-8	(Knoll #2 - PR - surface collection) black chert flake - blade-like		
210-9	(Knoll #2 - PR - surface collection) black chert flake fragment - patinated		
210-10	(Knoll #2 - PR - surface collection) black chert flake - possible lateral use wear - retouch?		
210-11	(Knoll #2 - PR - surface collection) black chert flake - retouched?		
210-12	(Knoll #1 - KL's TP #1) 3 small black chert flake fragments		
210-13	(Knoll #2 - KL's TP #2) 1 large grey chert chunk		
210-14	(Knoll #1 - RJaD's TP #1) 3 small flake fragments - one may be a small microblade fragment (grey one)		
210-15	(Knoll #1 - RJaD's TP #2 - 50' NE of KL's TP #1) banded grey-brown chert fragment		
210-16	(Knoll #1 - RJaD's TP #2 - 50' NE of KL's TP #1) black chert flake fragment		
210-17	(Knoll #1 - RJaD's TP #2 - 50' NE of KL's TP #1) black chert chunk		
210-18	(Knoll #1 - RJaD's TP #2 - 50' NE of KL's TP #1) grey chert fragment (very small)	-	
	Sample of lichen taken from one of the knolls.		`

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LIV-103			
EMS 71-3A Site #4		Date Collecte	K. Leitgeb ed: 7-15-80
Artifact No.	JA80 Provenience/Description	Significance	Comments
220-1	(Isolated find along TAPS - approximately 100' S of Site #2) black chert core fragment		
LIV-105	۲.		
EMS 71-3A Site #5		Date Collecte	K. Leitgeb ed: 7-19-80
Artifact No. U	JA80 Provenience/Description	Significance	Comments
221-1	(Slope side - RJaD - return traverse #8-9) isolated find - core fragment - black chert - patinated		
221-2	(RJaD – isolated find #2 and #3) black chert chunk – patinated – it looks frost shattered		
221-3	(RJaD - isolated find #2 and #3) black chert chunk - possible retouch along unpatinated edge		
221-4	(RGT) grey-black chert core fragment		
221-5	(RGT) grey-black chert flake		
221-6	(RGT) black chert flake fragment		
221-7	(RGT) grey-black flake fragment		
221-8	(RGT) black chert chunk (blockish)		
221-9	(RGT) black chert flake fragment - possible use wear		
221-10	(RGT) black chert core fragment		
221-11	(RGT) mottled grey-black chert flake fragment		

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# LIV-105 continued

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Artifact No.	UA80 Provenience/Description	Significance	Comments
221-12	(RGT) black chert fragment		
221-13	(RGT) grey-black chert flake fragment		
221-14	(RGT) grey-black chert fragment		
221-15	(RGT) grey-black chert fragment		
221-16	(RGT) black chert fragment		
221-17	(RGT) grey-black chert chunk		
LIV-030 Adden	dum		
EMS 71-3B Site #1		Date Collecter	K. Leitgeb d: 7-14-80
Artifact No.	UA80 Provenience/Description	Significance	Comments
214-1	(Bag #1) black chert unifacially worked chunk		
214-2	(Bag #2 - RGT) grey-black chert flake (possible use wear) - blade-like		
214-3	(Bag #3 - MW) black chert flake with lateral use wear		
214-4	(Bag #4 - RJaD - surface) black chert chunk		
214-5	(Bag #4 - RJaD - surface) black chert chunk		
214-6	(Bag #4 - RJaD - surface) black chert core fragment		
214-7	(Bag #4 - RJaD - surface) large grey-black chert flake with possible use wear		
214-8	(Bag #4 - RJaD - surface) banded grey chert flake		

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LIV-030 continued

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Artifact No.	UA80 Provenience/Description	Significance	Comments
214-9	(Bag #4 - RJaD - surface) black chert flake		
214-10	(Bag #4 - RJaD - surface) black chert chunk - patinated		
214-11	(Bag #4 - RJaD - surface) black chert flake - patinated		
214-12	(Bag #4 - RJaD - surface) black chert core fragment		
214-13	(Bag #4 - RJaD - surface) black chert flake - patinated	,	
214-14	(Bag #4 - RJaD - surface) black chert fragment		
214-15	(Bag #4 - RJaD - surface) black chert fragment		
214-16	(Bag #4 - RJaD - surface) black chert flake fragment - patinated		
214-17	(Bag #4 - RJaD - surface) black chert flake - patinated - blade-like		
214-18	(Bag #4 - RJaD - surface) black chert flake fragment - possible use wear - blade-like		
214-19	(Bag #4 - RJaD - surface) black chert fragment with cortex		
214-20	(Bag #4 - RJaD - surface) black chert flake fragment - blade-like		
214-21	(Bag #4 - RJaD - surface) black chert flake fragment		
214-22	(Bag #4 - RJaD - surface) black chert flake fragment - blade-like		
214-23	(Bag #4 - RJaD - surface) black chert flake		

#### LIV-030 continued

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Artifact No.	JA80 Provenience/Description	Significance	Comments
214-24	(Bag #4 - RJaD - surface) black chert flake - blade-like		
214-25	(Bag #4 - RJaD - surface) black chert flake fragment		
214-26	(Bag #4 - RJaD - surface) black chert flake fragment		
214-27	(Bag #4 - RJaD - surface) black chert chunk - blockish		
214-28	(Bag #4 - RJaD - surface) black chert flake fragment		
214-29	(Bag #4 - RJaD - surface) black chert chunk - possible use wear along one edge		
214-30	(Bag #4 - RJaD - surface) black chert flake - use wear along lateral edge _	·	
214-31	(Bag #4 - RJaD - surface) black chert flake - possible use wear		
214-32	(Bag #4 - RJaD - surface) black chert flake fragment - possible use wear		
214-33	(Bag #4 - RJaD - surface) black chert chunk (flake scars on dorsal surface)		
214-34	(Bag #4 - RJaD - surface) black chert flake fragment - patinated - blade-like		
214-35	(Bag #4 - RJaD - surface) black chert flake fragment		
214-36	(Bag #4 - RJaD - surface) black chert flake		
214-37	(Bag #4 - RJaD - surface) black chert flake fragment		
214-38	(Bag #4 - RJaD - surface) black chert flake fragment - small		
214-39	(Bag #5 – RGT 2nd pit) large grey-black chert flake fragment	,	

# LIV-030 continued

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Artifact No.	UA80 Provenience/Description	Significance	Comments
214-40	(Bag #5 - RGT 2nd pit) black chert flake fragment with hinge fracture		
214-41	(Bag #5 - RGT 2nd pit) black chert flake - patinated		
214-42	(Bag #5 - RGT 2nd pit) black chert flake - patinated		
214-43	(Bag #5 - RGT 2nd pit) black chert flake with possible use wear		
214-44	(Bag #5 - RGT 2nd pit) black chert flake with possible retouch		
LIV-106			
EMS 71-3B			K. Leitgeb
Site #2		Date Collecte	d: 7-15-80
Site #2 Artifact No.	UA80 Provenience/Description	Date Collecte <u>Significance</u>	d: 7-15-80 <u>Comments</u>
	UA80 <u>Provenience/Description</u> (Flake #1 - surface collection - MW) black chert chunky flake with lateral possible use wear		
Artifact No.	(Flake #1 - surface collection - MW) black chert chunky		
<u>Artifact No.</u> 215-1	(Flake #1 - surface collection - MW) black chert chunky flake with lateral possible use wear		
<u>Artifact No.</u> 215-1 215-2	(Flake #1 - surface collection - MW) black chert chunky flake with lateral possible use wear (Flake #2 - MW - surface collection) black chert flake		
Artifact No. 215-1 215-2 215-3	(Flake #1 - surface collection - MW) black chert chunky flake with lateral possible use wear (Flake #2 - MW - surface collection) black chert flake (TP #1) grey chert flake fragment		

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LIV-040 Addendum

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EMS 71-3B Tolovana 2 Site #3

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K. Leitgeb Date Collected: 7-19, 8-25-80

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Artifact No.	UA80 Provenience/Description	Significance	Comments
216-1	(TP #23 - 1st traverse - RJaD) black chert burin - patinated		
216-2	(TP #23 - 1st traverse - RJaD) grey chert flake		
216-3	(Isolated surface - RGT) black chert flake		
216-4	(S corner of TP #1 - DKH - 5 cm) black chert flake		
LIV-104			
EMS 71-3B Site #6	·	K. Date Collected:	Leitgeb 7-19-80
Artifact No.	JA80 Provenience/Description	Significance	Comments
217-1	(Edge of cut - 1300' from W) black chert core fragment		
217-2	(Edge of cut - 1300' from W) black chert flake - blade-like	9	
XBD-042 MP 517.5 - AA Site #1	5 092	K. Date Collected:	Leitgeb 7-2-80
Artifact No.	JA80 Provenience/Description	Significance	Comments
	Samples from possible cache 600' NW of Alyeska gravel pit at mile post 517.5 – refer to Leitgeb Book #1 pp. 25–26 and Soils Notebook #1 p. 15		
243.1	Soil sample (dark/black soil)		
243.2	Bone sample (extremely small amount)		

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#### TNX-FIND

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#### AAS 118 - Test Area #8 Fault Stability Study Site #1

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R. J. Dale Date Collected: 9-28-80

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Artifact No	. UA80	Provenience/Description	Significance	Comments
166-1	road cut - lower	ess route to site in bank of existin of 2 palaeosol in loess deposits - urface) black igneous flake	َرُّ Ig	
166-2	road cut - lower	ess route to site in bank of existin of 2 palaeosol in loess deposits - urface) black igneous flake	ng	
166-3	road cut - lower	ess route to site in bank of existin of 2 palaeosol in loess deposits - urface) small black igneous flake	ng	

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