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The Garrison Study Unit

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2008

The Missouri valley in North Dakota upriver from Garrison dam to the Montana border has witnessed all of the state's prehistory. Diagnostic artifacts are reported dating from Clovis times. The long east-west segment of the valley has vast areas of north-facing wooded slopes and draws which provide cover for an abundance of game animals and furbearers. This setting, including the river, tributary stream valleys, and upland grasslands, may have offered the most reliable resource base in the state for hunting and gathering peoples.

Description of the Garrison Study Unit

The Garrison Study Unit (GSU) is located in the northwestern part of North Dakota. Montana and Saskatchewan border it to the west and north. It covers an area of 8,063 mi², comprising all or parts of eight counties: Burke, Divide, Dunn, McKenzie, McLean, Mercer, Mountrail, Ward, and Williams. Figures 6.1 and 6.1A are maps illustrating the Study Unit. A complete listing of townships included in the Study Unit is presented in Table 6.1.

Physiography

The Study Unit lies within the glaciated Missouri Plateau Subsection of the Missouri Plateau Section of the Great Plains Physiographic Province (Fenneman 1931; Hunt 1974). Missouri River valley portions of the Study Unit are included in the Missouri River Trench District. But most of the Study Unit is made up of Missouri Coteau and Coteau Slope terrain. Land outside of the Trench beyond the right bank of the river is part of an unnamed district of the Glaciated Missouri Plateau Subsection (Fenneman 1931; Wyckoff and Kuehn 1983:Figure 4.11).

Topographically, the Coteau Slope is characterized by gently rolling hills dissected by numerous river and creeks which drain to the Missouri River (now referred to as Garrison Reservoir or Lake Sakakawea). Knob-and-kettle glaciated terrain with many sloughs and potholes and other glacial features are typical on the Missouri Coteau proper. These features were formed by stagnation moraines, end moraines, and ground moraines during glacial times.

The Missouri River valley has been modified by the man-made impoundment of the waters of Lake Sakakawea behind Garrison Dam. Construction of the dam was completed in 1953. The Missouri River Trench once consisted of floodplain, older river terraces, breaks terrain, and uplands. These features can still be found today in the extreme western portion of the Study Unit at the headwaters of the reservoir where low-lying alluvial landforms remain above pool level. However, in most parts of the valley along the Lake Sakakawea

Figure 6.1: Map of the Garrison Study Unit.

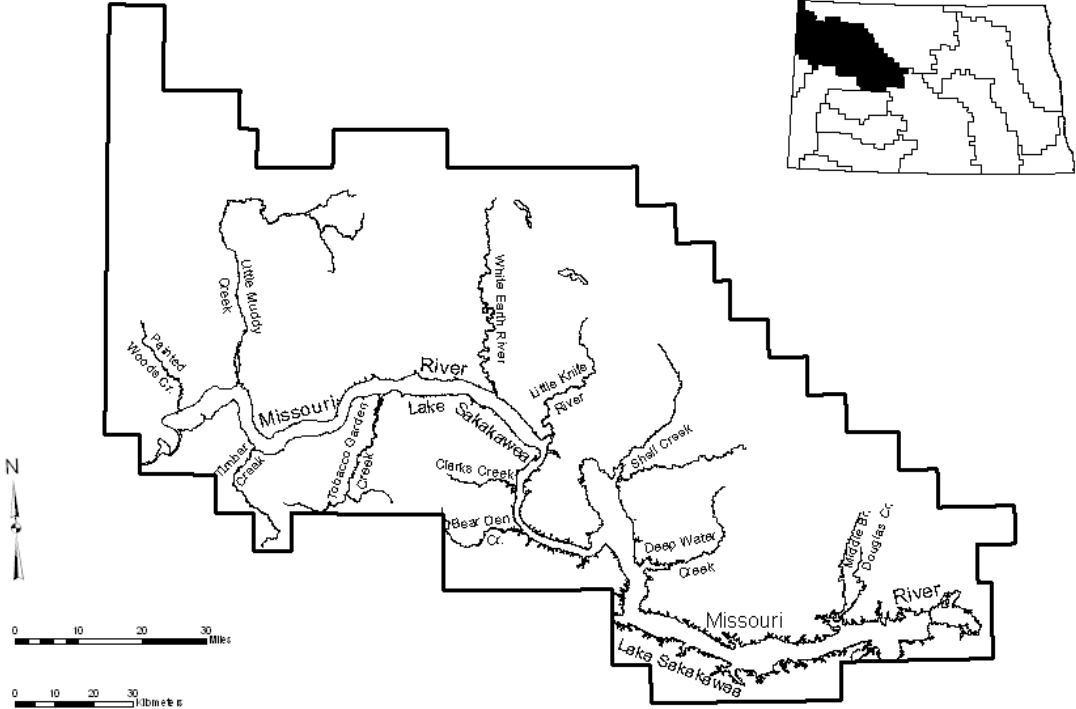


Figure 6.1A: Shaded relief map of the Garrison Study Unit.

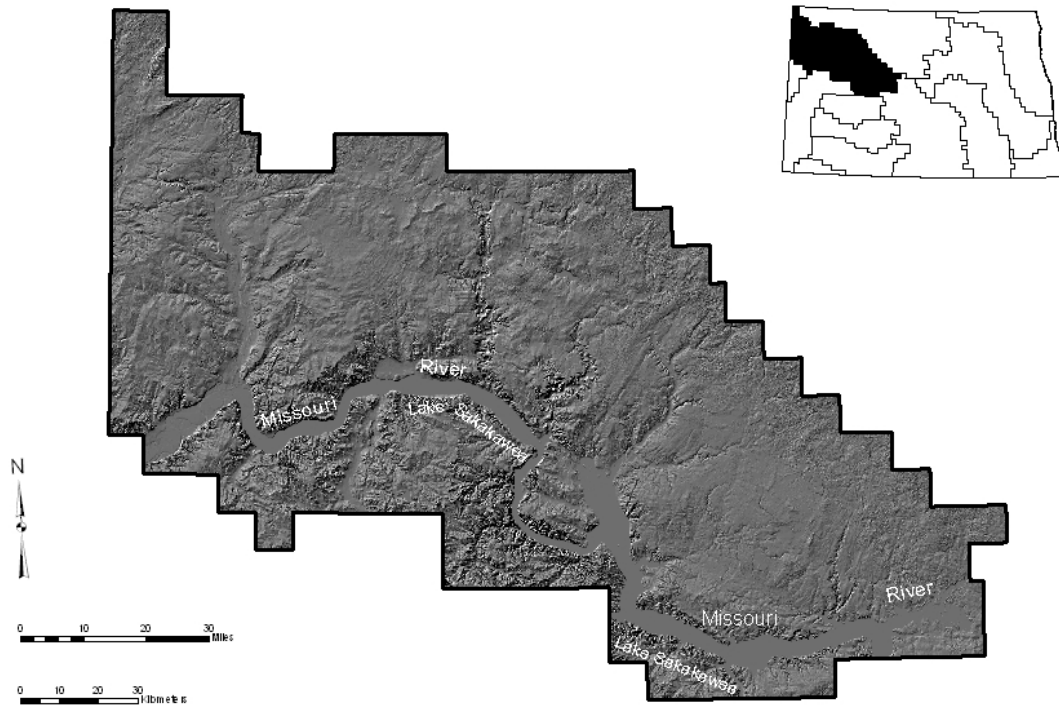


Table 6.1: Townships in the Garrison Study Unit.

TOWNSHIP	RANGE
146	86
146	87
146	88
146	89
146	90
147	82
147	83
147	84
147	85
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147	87
147	88
147	89
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TOWNSHIP	RANGE
150	87
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151	83
151	84
151	85
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TOWNSHIP	RANGE
152	100
152	101
152	102
152	103
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153	91
153	92
153	93
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TOWNSHIP	RANGE
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TOWNSHIP	RANGE
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157	97
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TOWNSHIP	RANGE
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164	103

shoreline, only portions of the breaks and uplands have not been flooded (cf. Reid et al. 1988).

Drainage

The westernmost portion of the GSU is within the Big Muddy Creek basin (of Montana), but the Big Muddy drains southward to the Missouri, so, even though the Big Muddy basin may be somewhere near the size of basins such as the Knife which are considered individually as Study Units, only a small part of the Big Muddy basin is within North Dakota, and it is categorized as part of the GSU. Drainage along the northern edge of the Garrison Study Unit is demarcated a little to the south and west of the Missouri Escarpment in a zone which approximates the location of the subcontinental divide. All streams and creeks located south and west of this zone flow southward to the Missouri River and the Mississippi River system, ultimately draining to the Gulf of Mexico. Major named streams tributary to the left bank of the river, from west to east, include Painted Woods Creek (yes, another Painted Woods Creek), the Little Muddy River, White Earth River, Little Knife River, Shell Creek, Deepwater Creek, and the three main branches of Douglas Creek. This Study Unit also has several significant named drainages lying south and west of the Missouri River that are tributary to its right bank. These include (from west to east) Timber Creek, Tobacco Garden Creek, Clear Creek, and Bear Den Creek.

The Missouri Coteau portion of the Study Unit is essentially “undrained” or “internally” drained. Water collects from rainfall, snowmelt, and ground water in the plentiful sloughs and potholes. Several of the larger named water bodies are White Lake and Powers Lake.

Climate

The present-day climate is of the northern continental type. Temperatures fluctuate extremely by season with warm summers and cold winters. Temperatures in Mercer County have reached 108°F during summer hot spells and have fallen to as low as -48° F during winter as the result of frigid Arctic air pushing southward over the region (cf. Jensen 1972). The average winter temperature is 12° F, while the summer mean hovers around 67° F.

Precipitation averages about 16 inches annually, most of which falls as rain during the spring and summer (NDSPB 1939a). Prevailing winds are from the west-northwest throughout the year with the highest average readings around 13 mph. Brief periods of stronger winds and gusts to 35 or 40 mph are not uncommon. The frost-free growing season averages about 115 days.

Landforms and Soils

The landforms in the Study Unit consist of glaciated uplands, breaks terrain, valley wall sideslopes and footslopes, draws (or coulees), alluvial terraces, and floodplains in the bottomlands of the Missouri and some of the larger tributaries. Archeological sites are found on all of these landforms.

Natural Resources Conservation Service (NRCS) official soil survey resources are available on the internet (NRCS 2007a, b, c). The Web Soil Survey in particular may be useful, as it has replaced the traditional county soil survey books.

Electronic Field Office Technical Guide:

<http://www.nrcs.usda.gov/technical/efotg/>

Soil Data Mart: <http://soildatamart.nrcs.usda.gov>

Web Soil Survey: <http://websoilsurvey.nrcs.usda.gov/app/>

Flora and Fauna

Descriptions of the Missouri valley by early explorers such as Lewis and Clark, and later by Maximilian, provide first hand accounts of the natural environment of the Study Unit for times prior to the massive modifications caused by European immigrants. Detailed reconstructions of floral and faunal resource availability can be calculated by studying those sources in combination with the works of the ecological, botanical, and zoological specialists of the mid-1900s.

The GSU lies within the Northern Temperate Grassland biome (Shelford 1963:329). The semiarid climate results in the development of a mixed grass prairie association here (Dodds 1979; Whitman and Wali 1975). The mixed grass prairie is dominated by blue grama grass, needle-and-thread grass, and western wheatgrass. This grassland provided good habitat for bison and pronghorns (Shelford 1963:344). Gallery forests grew along the Missouri River on the floodplain and provided habitat for white-tailed deer and small mammals such as otters and porcupines. Transition zones between the grasslands and floodplain forests offered additional habitat diversity. Hardwood draws, for example, provide conditions for the growth of bur oak, green ash, and juniper. This vegetation provides cover for a variety of game animals.

Overstory vegetation on the floodplain was typically dominated by cottonwoods, box elder, elm, and willows in pioneer and early succession situations. Oak and ash would come to dominate mature stands on the floodplains and along the edges of terraces (Burgess et al. 1973:36). Understory vegetation included the food plants chokecherry, buffaloberry, gooseberry, and serviceberry.

Overall, the faunal diversity in the GSU at contact time was as great or greater than anywhere in the state. The reliability of the Missouri River as a water source combined with the floral diversity and cover of the gallery forests and breaks zones provided habitats for many kinds of animals. Creatures which could be hunted for meat, hides, feathers, teeth, bones, etc., included bison, elk, pronghorns, white-tailed deer, mule deer, grizzly bears, mountain lions, bighorn sheep, wolves, coyotes, foxes, bobcats, otters, badgers, porcupines, prairie dogs, weasels, mink, cottontail rabbits, jackrabbits, ground squirrels, golden eagles, bald eagles, hawks, owls, pelicans, magpies, prairie chickens, grouse, and a variety of waterfowl, fish, turtles, and mussels (cf. Brown et al. 1983).

Other Natural Resource Potential

Glacial fill and alluvially transported gravels abound in important stone resources at places within the GSU. Depending on the location, there can be KRF, quartzites, jaspers and cherts, agatized woods, Yellowstone agate, porcellanite, basalt, granite, and even limestone. Bedrock materials such as pigment stones and sandstone are also found. A detailed description of the lithic resources of the Mondrian Tree site locality in the western portion of the GSU can be found in Toom (1983c).

Overview of Previous Archeological Work

As of 13 September 2007, there were 2,357 archeological sites and 2,016 archeological site leads and isolated finds in the state computerized site data file for this Study Unit. With its area of 8,063 mi², there is one site recorded for every 3.4 mi². The GSU ranks fourth out of all of the study units in site density. As of 5 September 2007, 902 cultural resource inventories are on file at the SHSND manuscript collection. Therefore, one archeological site has been recorded for every 2.6 inventories.

Inventory Projects

Table 6.2 presents the recorded feature types by landform for the GSU. It is striking that stone circles and other rock features account for well over one-half of the site records. The diversity of sites here is as great as in any other Study Unit. The scant few sites recorded in floodplain settings cannot be representative of the actual intensity of use of that landform in prehistory. The biased record can be accounted for by (1) destruction of floodplain sites by river meandering, (2) deep site burial in alluvial floodplain sediments, and (3) inundation of sites beneath the waters of Lake Sakakawea.

The GSU has a long history of archeological investigation paralleling in many ways that of the Southern Missouri River Study Unit. Among the first reports of archeological reconnaissance was the summary work of Will and Hecker (1944). Based on some 20 years of inquiry, their work provides initial

Table 6.2: Feature Type by Landform for Archeological Sites in the Garrison Study Unit, 13-Sept-2007.

	Conical Timber Lodge	Cultural Material Scatter	Earthlodge Village	Earthworks	Fortification	Grave	Hearth	Jump	Mound	Other Rock Features	Pit	Quarry or Mine	Rock Art	Rock Shelter	Stone Circle	Trail	Misc	Total
Beachline (glacial)		1											1					2
Beach or riverbank		31					1			1	1	2			5		1	42
Canyon		5													2			7
Island		3													1			4
Delta		1																1
Draw		24					1	1		5					13		2	46
Upland plain		69				3	2		4	58	16				97		7	256
Floodplain		12	3			2	1		2	1					1			22
Hill - Knoll - Bluff	1	228		1		3	14	1	6	212	29	1	5		288	1	4	794
Ridge		291		3	1	1	14		3	377	55	2		2	585	1	6	1341
Saddle		11					2			20	1	1			25			60
Sandbar										1					1			2
Spur		47		1			4			59	2				129		1	243
Swale		2													4			6
Terrace	1	173	8	1		1	30	1	2	29	9			1	83	3	3	345
Alluvial fan		1																1
Butte		13	1				1			18	8		2		5			48
Foot slope		27	3			1	5		1	4	6		1		12	1		61
Other		11				1			1	2					7			22
Total	2	950	15	6	1	12	75	3	19	787	127	6	9	3	1258	6	24	3303

descriptions of prominent earthlodge villages such as Midipadi Butte (32DU2) which were subsequently investigated in greater detail.

Following World War II and the proposed construction of earthen dams along the Missouri River, there was resurgence in archeological activity. Kivett (1948) provided a preliminary statement concerning archeological and paleontological resources in the proposed Garrison Reservoir. A total of 70 archeological sites were reported. This initiated a long-term research program conducted by the Smithsonian Institution River Basin Surveys. Follow up studies by George Metcalf and others (Metcalf 1951; Metcalf et al. 1953) inventoried known cultural resources in the reservoir.

A period of some two decades elapsed before the renewal of survey work in the Study Unit. The next mention of inventory work is a brief citation credited to the St. Paul Science Museum (1969).

During the mid-1970s, there was a resurgence of survey work along stretches of the eroding Garrison Reservoir shoreline. In the summer of 1974, 51 sites were found during shoreline survey work (Haberman and Schneider 1975). The following year additional survey work was completed at Lake Sakakawea. Gary Leaf (1976) reported on 15 new sites around the reservoir.

Survey work conducted between 1979 and 1981 along the route of the Northern Border Pipeline resulted in the recording of eight previously unknown archeological sites and four find spots in McKenzie and Williams counties (Root 1983y:626). A ca. 20 km long segment of the pipeline transects the GSU. Results of the survey indicated, not surprisingly, that prehistoric use of the immediate Missouri River valley area was more intensive than areas away from the valley. "Permanent water supply, the gallery forests, hardwood draws in the river breaks, and abundant plant and animal resources are factors which led to the relatively extensive settlement in this region" (ibid.:657). The most important site found by this survey was the Mondrian Tree site (32MZ58) along the right bank of the river at a location where an ephemeral tributary stream valley enters the main valley (cf. Toom and Gregg 1983).

In 1981, 24 prehistoric sites were recorded in 4,000 acres of recreation area land along the Garrison shoreline (Van Hoy et al. 1982). During 1983, Overland Associates recorded 22 archeological sites in some 16,000 acres along Lake Sakakawea shoreline in Williams and McKenzie counties (Noisat et al. 1986).

The Bureau of Land Management's (BLM) sampling survey of western North Dakota coal study areas (CSAs) covered 63 sampling units (each 160 acres in size) in the GSU within the Hanks and Sand Creek CSAs. The surveyed areas lie north of the Missouri River northwest of Williston, primarily in Williams County, but including two sample units in extreme southwestern Divide County

(Metcalf et al. 1988:5). There were 100 sites recorded yielding a site density of one per 100 acres; 41 isolated artifacts were also recorded.

In a 1987 intensive survey of the federal “take area” along the Lake Sakakawea shoreline in Mercer County, 154 sites were recorded in 9,200 acres yielding one site per 60 acres overall (Floodman 1988). The area surveyed was primarily “upland rim” terrain and not river bottomlands or terraces.

During 1986 and 1987, an approximate 35 mi² area along Lake Sakakawea in Dunn County was surveyed. Winham et al. (1987) recorded 163 new sites and revisited 32 previously known ones. A number of these sites fall within the Knife River Study Unit (see maps and lists of legal descriptions for study unit boundaries). A variety of cultural properties were evaluated including cultural material scatters, lithic scatters, earthlodge villages, isolated historic Native American trunk burials, and former cemetery locations.

Ethnoscience, Inc. has conducted several block inventories for The Coteau Properties Company’s expansion of mining operations in Mercer County (Boughton et al. 1994, 2000; Strait et al. 2003; Walker-Kuntz et al. 1998). Table 6.3 provides a snapshot of these projects.

Table 6.3: A Brief Overview of the Large-scale Class III Inventories Conducted in the Garrison River Study Unit (5-Sept-2007).

Block Survey	Area (Acres)	Date	Number of New Archeological Sites	Manuscript #
North Mine Extension	4,520	1994	59	6245
North Mine Extension	360	1998	6	7191
Permit Area D	1,840	2000	130	7610
Permit Area H	2,380			
West Permit Area	18,600	2003	16	8464
Area 2 North	6,510			

The pace of archeological investigation in off-Trench locations within the GSU accelerated at a great rate between the mid-1970s and the late 1980s. Since 1990, there have been over 380 inventories conducted within the GSU (Table 6.4). Of this total, transportation projects account for approximately 39%, energy production and transmission approximately 25%, agricultural activities/natural resources approximately 25%, communications approximately 5%, and the remainder consists of uncategorized projects.

Table 6.4: Inventory Projects in the Garrison Study Unit, 5-Sept-2007.

Year	First Author	Second Author	Title	Ms #
1947	Bauxar, J.		Preliminary Appraisal of the Archeological & Paleontological Resources of Crosby Reservoir, Divide Co., ND	7
1948	Kivett, M.		Appendices A & B to Accompany Report on Historical Aspects of the Garrison Reservoir Area, Missouri River	111
1951	Metcalf, G.		Report of Survey Activities in Garrison Reservoir, 1951 (and) Summary of Archaeological Survey of Ft. Berthold Reservation, August-October, 1950	114
1953	Metcalf, G.	T. White et al.	Appraisal of the Archeological and Paleontological Resources of the Garrison Reservoir, ND, Supplement	112
1969	St. Paul Science Museum		Shoreline Survey of Garrison Reservoir, Lake Garrison, ND	227
1975	Adamczyk, T.		Archaeological Inventory Missouri River Reach Between Fort Benton, MT & Sioux City, IA	80
1975	Haberman, T.	F. Schneider	1974 Archaeological Survey of Portions of the Garrison Reservoir Shoreline, ND	113
1975	Schneider, F.		Archaeological Investigations of Municipal & Industrial Water Supply Projects For Fessenden, Harvey, & Garrison, Wells & McLean Co., ND	145
1976	Dill, C.		L. W. Veigel & Co. P.C., Project No. CRS 933(2), McKenzie Co. Negative Declaration Survey Report	268
1976	Dill, C.		ND Highway Department Project No. F-7-002 ()020, Williams Co., Negative Declaration Survey Report	266
1976	Franke, N.		Basin Electric Power Cooperative Transmission Line Right of Way Negative Declaration Survey Report, McLean, Ward, & Mountrail Co., ND	258
1976	Franke, N.		ND Highway Department Project No. F-4-083 () 156 Negative Declaration Survey Reports, McLean Co., ND	249
1976	Franke, N.		ND Highway Department Projects No. F-7-002 () 054 and F-4-002 () 089 Negative Declaration Survey Report	261
1976	Johnson, D.		Shoreline Survey of Lake Sakakawea from Wild Cow Bay to Tobacco Garden Bay, McKenzie Co., ND	17
1977	Bailey, W.		Economic Development Administration EDW-LPW Project ND 5037 (Lake Sakakawea State Park Campground Expansion) Negative Declaration Survey Report, Mercer Co., ND	284
1977	Bailey, W.		Economic Development Administration Garrison Airpark Survey Report, McLean Co., ND	297
1977	Chatters, J.		Pasture 12, Allotment 2 Pipeline Project Survey, McKenzie Co., ND	181
1977	Fox, R.	F. Schneider	Mandaree Water Supply Pipeline Survey, McKenzie Co. & Dunn Co., ND	158
1977	Gregg, M.		Hanson-Consolidated Crude Oil Company # 1-2 Federal Oil Drill Site and Access Road Survey, Dunn Co., ND	206
1978	Dill, C.		1977 Cultural Resources Inventory: Antelope Valley Station/A.NGCGC Gasification Plant Site, Associated Mining Areas and Ancillary Facilities, Mercer Co., ND	225
1978	Dill, C.		ND Highway Department Project No. F-FLH-7-022()141, McKenzie Co., Negative Declaration Survey Report	290
1978	Dill, C.		ND Highway Department White Earth River Crossing of US Highway 2, Mountrail Co., Negative Declaration Survey Report	285
1978	Fox, R.		Jellestad-Federal #1-14 Oil Well & Access Road Survey, Mountrail Co., ND	311
1978	Fox, R.		New Town Municipal Golf Course Survey, Mountrail	150

Year	First Author	Second Author	Title	Ms #
			Co., ND	
1978	Good, C.		Little Muddy Boat Ramp Cultural Resource Survey, Williams Co., ND	940
1978	Good, C.		McKenzie Electric Cooperative, Inc., Right of Way Easement, Cultural Resource Survey, McKenzie Co., ND	945
1978	Good, C.		West River Mutual Aid Telephone Corporation Easement Cultural Resource Survey, Mercer Co., ND	944
1978	Good, C.		Williams Rural Water Co-op Water Line Survey & Williams Co., Highway Department Bridge Replacement Survey	943
1978	Good, C.		Wolf Creek Boat Ramp Cultural Resource Survey, McLean Co., ND	941
1978	Loendorf, L.		Cultural Resource Inventory, Proposed Site of Sewage Lagoon, Riverdale, McLean Co., ND	146
1978	Loendorf, L.		Preliminary Report on the Archaeological Investigations of 110 Site Locations, Little Missouri Grasslands, Custer National Forest, Western ND	299
1978	Murray, A.		Cultural Resource Inventories on Proposed Drilling Locations, Pipelines & Access Roads on the Little Missouri National Grasslands, McKenzie Co., ND	558
1978	Schreiner, M.		Cultural Resource Inventory of the Proposed Sunflot Heirs No. 1 Well Line, Divide & Burke Co., ND	161
1978	Snortland, J.		The 1978 US Hwy 83, Max Cultural Resources Inventory SHD Project F-4-083()160, Ward & McLean Co., ND	302
1978	Woolworth, A.	N. Woolworth	A Report on an Archaeological & Historical Reconnaissance Survey of the Great Lakes Gas Transmission Company Pipeline Route in ND and MN	306
1978	Woolworth, A.	N. Woolworth	Cultural Resources Survey Along the Basin Electric Power Cooperative's "Draw Down" Pipeline Route in Mercer Co.	411
1979	Dill, C.		Cultural Resources Inventory of Project No. F-1-083()126: Washburn North to Coleharbor, McLean Co., ND	952
1979	Fosberg, S.		Archeological Survey of Proposed Tobacco Garden Road, McKenzie Co., ND	1025
1979	Kenyon, J.		Northern Border TUP (Little Missouri Crossing) Cultural Resources Class III Inventory Report, Dunn Co., ND	685
1979	Kuehn, D.		Pasture 12, Allotment 2, Water Pipeline Survey McKenzie District Report, McKenzie Co., ND	802
1979	Kuehn, D.		Texaco Silurian Unit #9 Well Site Survey, McKenzie Co., ND	670
1979	Kuehn, D.		USFS Compliance Survey Relative to Texaco Silurian Unit #9, McKenzie Co., ND	1927
1979	Loendorf, L.		Cultural Resource Survey for the Proposed Mosbacher-Pruet No. 3-1 Heffelfinger Well Pipeline, Williams Co., ND	842
1979	Metcalf, M.	C. Zier	Adobe Oil and Gas #34-31 Federal Well Pad & Access Route Survey Report, McKenzie Co., ND	837
1979	Metcalf, M.		Texaco Devonian Battery #8 Tank Battery Survey, McKenzie Co., ND	578
1979	Metcalf, M.	C. Zier	Texaco Tank Battery & Seven Short Pipelines Survey, McKenzie District, McKenzie Co., ND	678
1979	Metcalf, M.	C. Zier	Texaco, Inc., Proposed 0.5 Mile Pipeline at Blue Buttes Survey Report, McKenzie Co., ND	773
1979	Metcalf, M.	C. Zier	Texaco, Inc., Section 10, T153N, R95W, Proposed Well Pad Location and Access Route Survey Report, McKenzie Co., ND	776
1979	Metcalf, M.	C. Zier	Texaco, Inc., Section 9, T153N, R95W, Proposed Well Pad & Access Route Survey Report, McKenzie Co., ND	775

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1979	Metcalf, M.	C. Zier	Texaco, Inc., Section 4, T153N, R95W, Proposed Well Pad & Access Route Survey Report, McKenzie Co., ND	774
1979	Metcalf, M.		Texaco, Inc., Silurian Unit #11, Well #1 Well Pad & Access Route Survey, McKenzie Co., ND	581
1979	Metcalf, M.	C. Zier	Texaco, Inc., SU 12 Well Pad & Access Route Survey Report, McKenzie Co., ND	745
1979	Metcalf, M.	C. Zier	Texaco, Inc., SU 13 Well Pad & Access Route Survey, McKenzie Co., ND	744
1979	Robson, L.		Agricultural Leasing (a) Section 19, T147N, R89W, Mercer Co., (b) Section 14, T147N, R94W, Dunn Co.,	640
1979	Robson, L.		ANG Coal Gasification Co. License Addition, Mercer Co., ND	2992
1979	Robson, L.		Ardell Moe Land Exchange, Mountrail Co., ND	3002
1979	Robson, L.		KRHEMP Waterline, Williams Co., ND	3014
1979	Robson, L.		National Guard Construction (License No. DA-32-015-CIVENG-58-8), Site 32 ML58	2981
1979	Robson, L.		National Guard Loading Ramp Cultural Resource Survey, McLean Co., ND	946
1979	Robson, L.		Permit #78-18 (US Highway 83 Culvert), McLean Co., ND	2980
1979	Robson, L.		Survey for Tree Plantings in Wolf Creek & Douglas Creek Areas, McLean and Mountrail Co., ND	1526
1979	Robson, L.		Tract #Y2235E Building Disposal, Williams Co., ND	3033
1979	Robson, L.		Whiteshield Public Park, McLean Co., ND	3025
1979	Savini, J.		Texaco, Inc., Silurian Unit #10 Well #1, Well Pad & Access Route Survey, McKenzie Co., ND	490
1979	Savini, J.		Texaco, Inc., Silurian Unit #5 Well & #1 Well Pad & Access Route Survey, McKenzie Co., ND	492
1979	Savini, J.		Texaco, Inc., Silurian Unit #7 Well #1, Well Pad & Access Route Survey, McKenzie Co., ND	491
1979	Savini, J.		Texaco, Inc., Silurian Unit #8 Well #1, Well Pad & Access Route Survey, McKenzie Co., ND	489
1979	Savini, J.		Texaco, Inc., Silurian Unit #9 Well #1 Well Pad & Access Route Survey, McKenzie Co., ND	488
1979	Schreiner, M.		Cultural Resource Inventory of a Proposed Lee Techni-Coal Drill Pad in McKenzie Co., ND	468
1979	Schreiner, M.		Cultural Resource Inventory of the Proposed Impoundments 1, 2, 3, 5, McLean Co., ND	3334
1979	Weston, T.	S. Ahler	Cultural Resources Survey & Test Excavations in the Path of Proposed Widening & Upgrading of Co., Route FAS 2910 in Mercer Co., ND	924
1980	Brechtel, J.		Cultural Resource Survey of a 1040-Acre Block in Williams Co., ND	1426
1980	Fox, R.		Class III Inventory for All Cultural Resources at Proposed Sewage & Water System Areas for Ross, Mountrail Co., ND	2225
1980	Fox, R.		Cultural Resource Inventory of the Proposed Saskatchewan, Canada, Intertie Transmission Line Right of Way, Northwestern ND, Vol. 1, Ward, Mountrail, Williams, Divide, & Burke Co.	970
1980	Gregg, M.		Tioga Airport Expansion Williams Co., ND: Class Inventory for All Cultural Resources	1541
1980	Harris, V.		Cultural Resource Investigations for Areas of Proposed Underground Powerline Construction by Williams Electric Coop., Williams Co., ND	1529
1980	Harris, V.		Cultural Resource Investigations for Proposed Road Improvements, Wegley's Resort Recreation Area, Williams Co., ND	1532
1980	Harris, V.		McLean Electric Cooperative, Underground Power	4200

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			Cable, McLean Co., ND	
1980	Loendorf, L.		Evaluation of the Potential For Cultural Resources in the Path of the Proposed Sovereign Engineering Pipeline, McKenzie Co., ND	1736
1980	MacDonald, L.		Class III Intensive Inventory for all Cultural Resources of the Antelope Tribal #19-31 Location, Restake, McKenzie Co., ND	2267
1980	Maul, D.		Pasture 14, Allotment 1, Dam Repair Survey, McKenzie Co., ND	1559
1980	Maul, D.		Pasture 14, Allotment 1, Spring Development Survey, McKenzie Co., ND	1560
1980	Maul, D.		US Forest Service D8-81-23 Road Improvement Survey, McKenzie Co., ND	1310
1980	Maul, D.		USFS 22 70, ND Water Commission Well Survey, McKenzie Co., ND	1888
1980	Maul, D.		USFS CP #08-16-81, Kellog Water Well Survey, McKenzie Co., ND	1887
1980	Maul, D.		USFS CP #80-15-81, Pasture 12, Allotment 2, Pipeline Survey, McKenzie Co., ND	1886
1980	Metcalf, M.	C. Zier	Amerada Hess Well Pads Survey, McKenzie Co., ND	1435
1980	Metcalf, M.	C. Zier	McKenzie Co., Proposed SOS 27(7) Bridge Site Survey, McKenzie Co., ND	1108
1980	Rippeteau, B.		Apache Corporation Berthold Prospect #1 Well Pad & Access Route Survey, McLean Co., ND	1470
1980	Rippeteau, B.		Archaeological Survey for Mercer Co., (Interstate Engineering) Barrow Pit for Hazen Bay Road, Mercer Co., ND	2298
1980	Rippeteau, B.		Archaeological Survey for Mercer Co., Hazen Bay Road and Addendum Testing Report	1279
1980	Rippeteau, B.		Archeological Survey for Mercer Co., Beulah Bay Road	1280
1980	Rippeteau, B.		Geo Resources, Inc., Coal Mine Survey, Williams Co., ND	1598
1980	Rippeteau, B.		Hunt Energy Well Pad Survey, Mountrail Co., ND	1402
1980	Rippeteau, B.		Shell Oil Company 12-7 Packineau Project Addendum Report, Dunn Co., ND	1869
1980	Rippeteau, B.		Shell Oil Company Pinkineau 12-7 Well Pad & Access Route Survey, Dunn Co., ND	1456
1980	Rippeteau, B.		Slawson Oil Tribal #4-1 Well Pad & Access Route Survey, Williams Co., ND	2309
1980	Rippeteau, B.		States Exploration, 41-28 Hall Prospect, Well Pad & Access Road Survey, McKenzie Co., ND	2303
1980	Rippeteau, B.		Texaco Oil Company #1 Red River #2 Well Location Survey, McKenzie Co., ND	1277
1980	Rippeteau, B.		Texaco Oil Company 160-Acre Block Survey, McKenzie Co., ND	1417
1980	Rippeteau, B.		Texaco Oil Company 160-Acre Block Survey, McKenzie Co., ND	1418
1980	Rippeteau, B.		Texaco Oil Company 320-Block Survey in Section 8, McKenzie Co., ND	1486
1980	Rippeteau, B.		Texaco Oil Company Block Survey, McKenzie Co., ND	1238
1980	Rippeteau, B.		Texaco Oil Company CMNU A303X Well Pad Survey, McKenzie Co., ND	1817
1980	Rippeteau, B.		Texaco Oil Company Survey of Section 10, McKenzie Co., ND	1457
1980	Rippeteau, B.		Texaco Oil Company Survey of Section 9, Charlson Oil Field, McKenzie Co., ND	1421
1980	Rippeteau, B.		Texaco Silurian #17 Well Pad and Access Route Survey, McKenzie Co., ND	1075
1980	Rippeteau, B.		Texas Oil Company 640-Acre Block Survey in Charlson Oil Field, McKenzie Co., ND	1408

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1980	Robson, L.		Agricultural Outlease - Tract G-686 Survey, McKenzie Co., ND	1525
1980	Robson, L.		Aminoil USA, Inc., Underground Oil Pipeline Survey, McKenzie Co., ND	1528
1980	Robson, L.		Class III Intensive Inventory for all Cultural Resources Young Life International Youth Camp Mercer Co., ND	2991
1980	Robson, L.		Class III Intensive Inventory For All Cultural Resources, White Earth Cottage Site, Roadways & Boat Ramp, Mountrail Co., ND	1954
1980	Robson, L.		Evelyn S. Jermiason Land & Easement Acquisition, McKenzie Co., ND	1036
1980	Robson, L.		Evenson Land Exchange Survey, Mountrail Co., ND	1731
1980	Robson, L.		Hafner Intake Structure Survey, Mercer Co., ND	1285
1980	Robson, L.		Helen E. Hurly Bank Protection Project, Mercer Co., ND	1027
1980	Robson, L.		Johnson Land Exchange Survey, McKenzie Co., ND	1732
1980	Robson, L.		Key's Cove Land Disturbance Survey, Williams Co., ND	1533
1980	Robson, L.		Little Beaver Bay-Tree Planting Survey, Williams Co., ND	1537
1980	Robson, L.		Little Muddy River-Tree Planting Survey, Williams Co., ND	1534
1980	Robson, L.		Oliver-Mercer Electric Cooperative Power Line Easement Survey Report, Mercer Co., ND	1284
1980	Robson, L.		Sorenson Land Exchange Survey, McKenzie Co., ND	1531
1980	Robson, L.		Stoner Land Exchange, Tract AA2500, Survey, Williams Co., ND	1530
1980	Robson, L.		Thronson Ag. Lease Survey: W-2023(D), Mountrail Co., ND	1049
1980	Rydalch, B.	K. McConnell	An Intensive Cultural Resource Survey of the Tenneco Olive #1-6 Well Location, McKenzie Co., ND	893
1980	Simon, A.	L. Loendorf	Apache Oil Corporation Bear Den #1 Well Location Survey, McKenzie Co., ND	1608
1980	Simon, A.	L. Loendorf	Helmerich-Tayne Matthews #1 Well Location Survey, McKenzie Co., ND	1609
1980	Simon, A.	L. Loendorf	Home Petroleum Corporation Survey of Sand Creek Prospect Well Location & Access Route, McKenzie Co., ND	1370
1980	Simon, A.	L. Loendorf	Home Petroleum Sand Creek Prospect 15-2 and 10-1 & Access Survey, McKenzie Co., ND	1302
1980	Simon, A.	L. Loendorf	Home Petroleum Survey of Sand Creek Prospects #15-3, 15-4, 15-5 & 15-6, McKenzie Co., ND	1391
1980	Simon, A.		Monitoring for Cultural Resources During Removal of Snow and Topsoil for the Proposed Amerada-Hess Well Location, McKenzie Co., ND	1172
1980	Simon, A.	L. Loendorf	South Antelope Tribal #19-1 Well Location & Access Survey, McKenzie Co., ND	3772
1980	Tate, M.		Adobe Oil and Gas Fed. 34-31 Well Pad & Access Route Survey, McKenzie Co., ND	1078
1980	Tate, M.		Texaco Oil Company Block Survey of Section 5, McKenzie Co., ND	1419
1980	Tate, M.		Texaco Oil Company Silurian #17 Well Pad Survey, McKenzie Co., ND	1266
1980	Tate, M.		Texaco Oil Company Silurian Unit 7-1X Survey, McKenzie Co., ND	2296
1981	Allen, W.		USFS Gravel Borrow Area Survey, McKenzie Co., ND	1911
1981	Allen, W.		USFS P13 - A1 Pipeline C. P. Survey, McKenzie Co., ND	1919
1981	Allen, W.		USFS Survey of Gravel Pit, McKenzie Co., ND	1908
1981	Greer, J.		An Intensive Cultural Resource Survey of the Mosbacher Production Company Charles A. Bowen 21-1 Well Pad & Access Road, Williams Co., ND	2038

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1981	Kuehn, D.		A Class II Reconnaissance Inventory of the Proposed Gulf Sand Creek 1-24-3A Oil Well Site in Williams Co., ND	2260
1981	Kuehn, D.	B. Rippeteau	Monitoring of Buford East/West Highway Project Williams Co., Highway Department Project Number CRS-5344(51)	5743
1981	Loscheider, M.	J. Greer	Mosbacher Production Company James F. Martin 22-1 Well Pad & Access Route Survey, Williams Co., ND	1656
1981	Pearson, J.	A. Simon	A Class III Intensive Inventory of the Proposed Route of MDU Trenton Plant Line in Williams Co., ND	1686
1981	Rippeteau, B.		Cotton Petroleum, Cotton Polaris H.C. Smith 5-18 Well Pad & Access Route Survey, Williams Co., ND	1712
1981	Rippeteau, B.		Dome Petroleum Hanson 14-14 Access Route Survey Report, McKenzie Co., ND	2390
1981	Rippeteau, B.		Eagle Nest, Inc., Allotment 1689 and 1775, Well Pad Surveys, McKenzie Co., ND	1644
1981	Rippeteau, B.		Texaco Charlson Deep Unit 2 Survey Report, McKenzie Co., ND	2432
1981	Rippeteau, B.		W. C. Kirkwood, Tribal 21-16 Well Location Survey, McKenzie Co., ND	1720
1981	Rippeteau, B.		Williams Exploration, #1-18 Heart Relocation, Well Pad & Access Route Survey, McKenzie Co., ND	2430
1981	Rippeteau, B.		Williams Exploration, #1-18 Heart, Well Pad & Access Route Survey, McKenzie Co., ND	2429
1981	Rippeteau, B.		Wold Engineering, CRS 3137 (51) Upgrading of Mountrail Co., Road FAS 3137 Survey, Mountrail Co., ND	1169
1981	Robson, L.		Beaver Creek Bay-Tree Planting, Mercer Co., ND	3027
1981	Robson, L.		Beulah Park Board Boat Ramp, Mercer Co., ND	2990
1981	Robson, L.		Class III Intensive Inventory Wayne Renvold Dredging Activity, Williams Co., ND	3013
1981	Robson, L.		Fort Stevenson State Park Marina McLean Co., ND	2978
1981	Robson, L.		Fred Krueger Irrigation Intake Section 10 Permit Application, McLean Co., ND	1794
1981	Robson, L.		Helmer Hoglund Easement Request McLean Co., ND	2979
1981	Robson, L.		Lake Sakakawea State Park Wastewater Treatment Improvement Areas, Mercer Co., ND	1793
1981	Robson, L.		Michael Wiedrich Irrigation Intake Mercer Co., ND	3026
1981	Robson, L.		Mountrail Co., Electric Co-op, Underground Powerline Installation White Earth Cottage Site, Mountrail Co., ND	3029
1981	Robson, L.		ND Game and Fish Department Section 10/404 Permit Requests Mallard Island, De Trobriand and Wolf Creek Management Areas; McLean Co., ND	2975
1981	Robson, L.		Oliver County Sportsmans Club Road Relocation Survey, Mercer Co., ND	1796
1981	Robson, L.		Phillips Petroleum Company, Pipeline Easement Williams and McKenzie Counties, ND	1999
1981	Robson, L.		Wegley's Resort Recreation Area--Land Exchange Tracts BB2504A & BB2580, Williams Co., ND	3015
1981	Robson, L.		Williams Electric Co-op Electric Powerline Easement, Williams Co., ND	1795
1981	Root, M.		Archeological Site Survey & Testing Along the Northern Border Pipeline, ND: Annual Progress Report, 1980, McKenzie, Mercer, Dunn, Stark, Morton, Emmons, McIntosh, & Williams Counties	2564
1981	Root, M.		Northern Plains Natural Gas Company Williston Pipe Storage Addition Survey, Williams Co., ND	2191
1981	Sheldon, C.		A Class III Intensive Inventory of a Proposed Drill Pad Location in Dunn Co., ND	2248

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1981	Sheldon, C.		A Class III Intensive Inventory of the Proposed Snake Pipeline, Roosevelt Co., MT, and Williams Co., ND	2247
1981	Sheldon, C.		A Class III Intensive Inventory of the Proposed Tioga Sewage Lagoon in Williams Co., ND (Prepared Under Federal Sewage Works Grant Project No. C38052-01)	5730
1981	Sheldon, C.		Getty Oil Co. Wing Drill Pad Survey, Williams Co., ND	1748
1981	Sheldon, C.		Texas Gas and Exploration Ellis Fed. 1-5 Well Location & Access Route Survey, Williams Co., ND	1747
1981	Simon, A.		Getty Federal Wing 4-14 Survey, Williams Co., ND	1744
1981	Stanley, L.	S. Montgomery et al.	A Class III Cultural Resource Inventory for the Proposed Home Petroleum Section 15 Well Location, Dunn Co., ND	2250
1981	Stanley, L.		Huskey Federal 11-11 Well Pad & Access Route Survey, Mountrail Co., ND	2281
1981	Stanley, L.	A. Simon	McKenzie Electric Cooperative, Inc. Blue Buttes Line Survey, McKenzie Co., ND	2134
1981	Tate, M.		Amerada Hess M.W. Zok 1-22 Survey Report, Williams Co., ND	2449
1982	Borchert, J.		Cultural Resource Survey of an Access Route for the Amarex Oscar Berg Location, McKenzie Co., ND	2745
1982	Borchert, J.		Phillips Gas Pipeline Survey Report, Williams Co., ND	2746
1982	Good, K.		Class II Cultural Resource Inventory of the Proposed Co., Highway 1806 Right of Way in Mercer Co., ND	2539
1982	Good, K.		Cultural Resource Inventory for Identified Locations Along US Highway 2 Between Junctions of Highways 2 & 85 & Highways 2 and 52 in Mountrail, Ward & Williams Counties, ND	2528
1982	Good, K.		Texaco, Inc., Proposed Injection Line Right of Way Survey, McKenzie Co., ND	2051
1982	Good, K.		Texaco, Inc., Proposed Water Pipeline Right of Way Survey, McKenzie Co., ND	2052
1982	Greer, J.		An Intensive Cultural Resource Survey of the Mosbacher & Pruet Galaxy 16-1 Well Pad & Access Road, Williams Co., ND	2039
1982	Keim, K.	J. Borchert	The Results of the Class III Cultural Resource Survey for the BIA Fox 1 Drill Pad, McKenzie Co., ND	2744
1982	Kjos, J.	J. Dahlberg et al.	Scenic East Site, AML (84) Cultural Resource Site Study, Near Williston, Williams Co., ND	4188
1982	Klein, A.		Garrison and Bueckler Projects AML Projects to Abate Subsistence Hazards, Ward & McLean Co., ND	2874
1982	Kuehn, D.		A Class III Cultural Resource Survey for the Proposed Flying J. Westland #1 Oil Well Pad, Williams Co., ND	2258
1982	Metcalf, M.		Cultural Resource Inventory for Grace Petroleum Corp. Coffee 12-1 Well Pad, Surrounding 20 Acres & Access, McLean Co., ND	2970
1982	Metcalf, M.		Cultural Resource Inventory for Grace Petroleum Corp. Well Pad (No Name Assigned), Surrounding 20 Acres & Access, McLean Co., ND	2969
1982	Metcalf, M.		Grace Petroleum Bear's Tail 12-1 Well Pad Survey Report, McLean Co., ND	2957
1982	Montgomery, S.	R. Birnie et al.	A Class III Intensive Inventory for the Proposed Cantera Star No. 2-24 Well Location in McKenzie Co., ND	2246
1982	Rippeteau, B.	M. Tate	Skyline Oil Company Big Bend Prospect Alternate Access Route Survey, Mountrail Co., ND	2799
1982	Rippeteau, B.		Skyline Oil Company Big Bend Prospect Well Pad and Access Route Survey, Mountrail Co., ND	2793
1982	Rippeteau, B.		Texaco Blue Buttes Saltwater Transfer Line Survey Report, McKenzie Co., ND	2792

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1982	Rippeteau, B.		Texaco Silurian Unit 19-1 Survey Report, McKenzie Co., ND	2808
1982	Roberson, W.		Cultural Resources Inventory of Thirty-Four Proposed Seismic Test Lines in Dunn, McLean, Mercer, & Mountrail Counties, ND	4053
1982	Robson, L.		Proposed Land Sales Along McClusky Canal, Burleigh, Sheridan, & McLean Counties ND	2848
1982	Schreiner, M.		AHL 31(5) Road Improvement Project--HASI Project No. 8209 (Road Improvement ROW Survey), Mountrail Co., ND	3172
1982	Science Applications, Inc.	Overland Archeology, Inc.	A Cultural Resources Inventory of Eastern Portions of Lake Sakakawea, ND (Mercer & McLean Counties)	3315
1982	Sheldon, C.		A Class III Intensive Inventory of the Proposed Benedict Step I Facility Plan in McLean Co., ND	2561
1982	Sheldon, C.		A Class III Intensive Inventory of the Proposed Bratlen 22-23 Drill Pad & Access in Williams Co., ND	2249
1982	Zier, C.		Cultural Resource Inventory for Williams Exploration Goodall 13-19 Well Pad & 1800' of Proposed Access, McKenzie Co., ND	2207
1982	Zier, C.		Cultural Resource Inventory for Williams Exploration Goodall 22-19 Well Pad & Approximately 2,700' of Access, McKenzie Co., ND	3354
1982	Zier, C.		Cultural Resource Inventory for Williams Exploration Heart 22-18 Well Location, 600'X600', McKenzie Co., ND	3355
1982	Zier, C.		Cultural Resource Inventory for Williams Exploration Heart 42-18 Well Location, 600'X800', McKenzie Co., ND	3353
1983	Aivazian, B.		Cultural Resources Inventory & Testing of the Shell Creek Project, Mountrail Co., ND	3131
1983	Bass, S.		American Colloid Lease Readjustment, Williams Co., ND	2903
1983	Borchert, J.	K. Keim	Class III Intensive Inventory of the Proposed Gulf West Nesson Federal 1-25-4A Well Location & Access & Preliminary Testing of 32MZ675, McKenzie Co., ND	3138
1983	Borchert, J.		Cultural Resource Inventory for Proposed Trans-Texas Well TTE #2 Chase, et al. in Mercer Co., ND	2779
1983	Branning R.		ND State Highway Department, Staking of Site 32WI67, (UW#594) at Proposed Gravel Quarry Area B, Section 15, T154N, R97W, White Tail Bay, Lake Sakakawea, Williams Co., ND	3826
1983	Dahlberg, J.	M. Schreiner	Cultural Resource Inventory and Evaluation of Four Historic Sites, Coteau Properties Mine Areas D & E, Mercer Co., ND	3121
1983	Dockter, S.	L. Loendorf	Class III Intensive Inventory for the Proposed Southwest Pipeline Project Through Portions of the Fort Berthold Reservation, Dunn and Mercer Counties, ND	3150
1983	Floodman, M.		Getty Trading & Transportation Company McKenzie Co., Gathering System, McKenzie Co., ND	3313
1983	Floodman, M.		Reservation Telephone Cooperative Buried Cable Survey Report, McKenzie Co., ND	2821
1983	Floodman, M.		Section 11 Block Survey, McKenzie Co., ND	3054
1983	Floodman, M.		Texaco Block, Section 15, McKenzie Co., ND	3064
1983	Floodman, M.		Texaco G-208 Survey Report, McKenzie Co., ND	2814
1983	Floodman, M.		Texaco Inc. Access Road Corridor McKenzie Co., ND	3183
1983	Floodman, M.		Texaco Inc. Block Survey, N 1/2 Section 14, McKenzie Co., ND	3047
1983	Floodman, M.		Texaco Inc. Block Survey, Sections: 17 and 18, McKenzie Co., ND	3048
1983	Floodman, M.		Texaco, Inc. BMU F-228 Powerline, McKenzie Co., ND	3049

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1983	Floodman, M.		Texaco, Inc., Silurian Unit 19-1, McKenzie Co., ND	3299
1983	Floodman, M.		Williams Exploration Goodall 13-19, McKenzie Co., ND	3298
1983	Gnabasik, V.		BLM Title Request to No. M53064, ND Cultural Resources Survey, Lake Sakakawea, Mountrail Co., ND	3385
1983	Gnabasik, V.		Boeshans Land Exchange, Tracts Nos. H-823 and H823-2 for a Portion of US Government Tract No. H-749-2 Lake Sakakawea, Mercer Co., ND	3386
1983	Gnabasik, V.		Garrison Sportsmen's Club Proposed New Recreation Area Survey, McLean Co., ND	3378
1983	Gnabasik, V.		Hardy-Papineau #1 Oil Well After-the-Fact Additional Lands Survey, Williams Co., ND	3423
1983	Gnabasik, V.		Mental Health Association of ND Proposed Recreation Camp Lease, Mercer Co., ND	3348
1983	Gnabasik, V.		Monitoring Hazen Bay Recreation Area Boat Ramp Access Road Upgrade Mercer Co., Commission, Lake Sakakawea, Mercer Co., ND	3358
1983	Gnabasik, V.		Pick City Public Park Survey, Mercer Co., ND	3379
1983	Gnabasik, V.		Pouch Point Recreation Area Proposed Access Road Right-of-Way Survey, Bureau of Indian Affairs, Lake Sakakawea, Mountrail Co., ND	3387
1983	Gnabasik, V.		Proposed Boat Ramp and Access Road Garrison Creek Cottage Site Lake Sakakawea, McLean Co., ND	3422
1983	Gnabasik, V.		Raums Recreational Area Williston American Legion Proposed Plans and Lease Amendment Cultural Resources Survey of Proposed Softball/Baseball Diamond Area, McKenzie Co., ND	3174
1983	Gnabasik, V.		Rocky Mountain Geophysical, Inc. Proposed Seismic Survey--Segments DD, GG, HH, and KK Lake Sakakawea, Williams & McKenzie Counties, ND	3381
1983	Gnabasik, V.		Van Hook Recreation Area 300' Setback & Olson's Second Addition Survey Mountrail Co., ND	3376
1983	Gnabasik, V.		Water Supply Facilities and Borrow Fill and Dumping Areas Survey Riverdale Vicinity, McLean Co., ND	3380
1983	Gnabasik, V.		Waterline Easement--Reuben Ellwein Cultural Resources Survey, Lake Sakakawea, Mercer Co., ND	3382
1983	Gnabasik, V.		Williams Co., Water Management District Requested Outgrant of White Trail Bay Survey, Williams Co., ND	3377
1983	Good, K.		Class III Cultural Resource Inventory of the Proposed Route of the Pouch Point Bay Access Road, Mountrail Co., ND	3113
1983	Keim, K.	A. Simon	Class III Intensive Inventory of Land for Trans-Texas in Care of IEC, Mercer Co., ND	3261
1983	Keim, K.	D. Kuehn	Class III Intensive Inventory of Proposed WTRI Sandberg Trust #1 Drill Pad & Access in Portions of Sections 29 and 30, T154N, R100W, Williams Co., ND	3157
1983	Kinney, J.	M. Schreiner	Cultural Resource Inventory of Fifty-Five Proposed Seismic Test Lines in Dunn, McKenzie, McLean, Mercer, & Mountrail Counties, ND	4055
1983	Kinney, J.	C. Kinney et al.	Cultural Resource Inventory of Forty-Six Proposed Seismic Test Lines in Dunn, McKenzie, McLean, Mercer, Mountrail, & Williams Counties, ND	4054
1983	Kuehn, D.		Class III Intensive Inventory of Proposed WTRI Sandburg Trust #1 Drill Pad in Portions of the NW & the SW of Section 29, T154N, R100W, Williams Co., ND	3272
1983	Moore, G.		Mosbacher Production Company Galaxy 16-1, Williams Co., ND, Corps of Engineers, Riverdale District.	3822
1983	Phillips, B.		Cultural Resource Surveys: Billings Microwave System in Golden Valley, Morton, Oliver, Mercer, Slope, Stark, & Billings Counties ND	3347

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1983	Rippeteau, B.		Sotrana - Texas Corporation Federal S.C. 10-1 Survey Report, McKenzie Co., ND	2812
1983	Rippeteau, B.		Texaco F-208X Survey Report, McKenzie Co., ND	2807
1983	Rippeteau, B.		Texaco, Inc. Silurian Unit 19-1, McKenzie Co., ND	3036
1983	Root, M.	M. Gregg	Archeology of the Northern Border Pipeline, ND: Vol. 2, Pts. 1-3 Survey and Background Information, McIntosh, Emmons, Morton, Stark, Mercer, Dunn, McKenzie, & Williams Co., ND	3455
1983	Simon, A.		Class III Intensive Inventory Gulf West Nesson 1-25-4D Access Road (Portions of Sections 25 and 26, T153N, R97W) McKenzie Co., ND	3159
1983	Simon, A.		Class III Intensive Inventory of Proposed Palermo Step I Facility, Mountrail Co., ND	2751
1983	Simon, A.	K. Keim	Class III Intensive Inventory Proposed Trenton Gas Pipeline and Substation in Portions of Sections 9, 10, 16, 17, T153N R102W--Williams Co., ND, and Addendum	3147
1983	Van Hoy, T.	R. Nathan et al.	Phase I Intensive Cultural Resource Inventory of Selected Recreational Areas in the West Portion of Lake Sakakawea, ND, Dunn, McKenzie, Mountrail, and Williams Counties (Contract No. DACW 45-81-C-0222)	3821
1984	Bass, S.		McKenzie Co., Land Status Survey 84-MT030-B	2224
1984	Bass, S.		McKenzie Co., Land Status Survey, 84-MT030-21 (C).	3780
1984	Bass, S.		McKenzie Co., Land Status Survey, 84-MT030-21 (D).	3781
1984	Bass, S.		McKenzie Co., Land Status Survey, 84-MT030-21 (A)	3543
1984	Bass, S.		McKenzie-Williams Land Status Survey, 84-MT030-21 (F), McKenzie Co., ND	3783
1984	Bass, S.		McKenzie-Williams Land Status Survey, 84-MT030-21 (H), McKenzie Co., ND	3784
1984	Bass, S.		McKenzie-Williams Land Status Survey, 84-MT030-21 (I), McKenzie Co., ND	3785
1984	Bass, S.		McKenzie-Williams Land Status Survey, 84-MT030-21 (J), McKenzie Co., ND	3786
1984	Bass, S.		McKenzie-Williams Land Status Survey, 84-MT030-21 (M), McKenzie Co., ND	3788
1984	Bass, S.		McKenzie-Williams Land Status Survey, 84-MT030-21 (N), McKenzie Co., ND	3789
1984	Borchert, J.		Cultural Resource Survey 11-21 Berwald Federal Section 21, T150N, R95W, McKenzie Co., ND	3469
1984	Borchert, J.		Cultural Resource Survey Buckshot Prospect, Section 11, T153N, R96W, McKenzie Co., ND	3464
1984	Borchert, J.		Cultural Resource Survey, Gulf Phoenix Prospect #1-5-3C, McKenzie Co., ND (UW#734).	3594
1984	Borchert, J.		Gulf Exploration & Production NOE 1-17-4C, UW #702, McKenzie Co., ND	3429
1984	Borchert, J.		Portal Pipeline Crude Oil Line to Deer Pass 20-1 and Page 30-1 Leases, McKenzie Co., ND	3588
1984	Enders, R.		Tenneco Oil Exploration and Production, Carroll Smith #1-31 Well Location and Access Road, Dunn Co., ND	3488
1984	Evans, D.	M. Linnabery	A Class III Inventory of the Williston Gas Company Pipeline Right of Way Segments Northern Gathering System, McKenzie Co., ND	3756
1984	Floodman, M.		Arco Oil and Gas Company ARCO #1-26 Harmon, Williams Co., ND	3436
1984	Floodman, M.		Arco Oil & Gas Company Arco 3-27 Irgens Williams Co., ND	3450
1984	Floodman, M.		Columbia Gas Development Corporation, Sovig #13-1, Williams Co., ND	3680
1984	Floodman, M.		Columbia Oil Development Corporation Federal 32-1,	3440

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			McKenzie Co., ND	
1984	Floodman, M.		Conoco, Inc., Wiser 21-8, Divide Co., ND	3312
1984	Floodman, M.		Cotton Petroleum Link 1-31, McKenzie Co., ND	3303
1984	Floodman, M.		Ecological Engineering Systems, Inc. Pipeline, Williams Co., ND	3307
1984	Floodman, M.		Georesources, Inc., Surface Coal Mine Survey, Williams Co., ND	3306
1984	Floodman, M.		Sun Exploration & Production Company Patch Federal #1, Williams Co., ND	3506
1984	Floodman, M.		Tenneco Oil Company 240 Acre Block Survey, Williams Co., ND	3514
1984	Floodman, M.		Tenneco Oil Company, Hardscrabble Field Block Survey, Williams Co., ND	3518
1984	Floodman, M.		Texaco Inc. Block Survey 160 Acres, McKenzie Co., ND	3304
1984	Floodman, M.		Texaco Inc. One-Half Mile Pipeline Right-of-Way, McKenzie Co., ND	3444
1984	Floodman, M.		Texaco Inc. Pipeline Survey, McKenzie Co., ND	3437
1984	Floodman, M.		Texaco Inc. Silurian Unit #35, McKenzie Co., ND	3442
1984	Floodman, M.		Texaco Inc. Silurian Unit #33, McKenzie Co., ND	3441
1984	Floodman, M.		Texaco Inc. Silurian Unit 40, 400 Acre Block Survey, McKenzie Co., ND	3679
1984	Fox, G.		A Class II Cultural Resource Inventory of ND Highway 22: From Lost Bridge to the Junction of ND Highway 23 in Dunn & McKenzie Counties, ND	3223
1984	Gnabasik, V.		Garrison Project Tree Plantings, Tract F152, McLean Co., and Tract F578, Mercer Co., ND	3481
1984	Gnabasik, V.		Les Engstrom, Domestic Waterline and Electric Transmission Line Easements, Pick City #2 Cottage Area, Garrison Project, Lake Sakakawea, Mercer Co., ND	3371
1984	Gnabasik, V.		Little Field Bay Access Road Right-of-Way Cultural Resources Survey and Subsequent Testing at Prehistoric Site 32MN156, Garrison Dam/Lake Sakakawea Project, Mountrail Co., ND	3393
1984	Gnabasik, V.		McKenzie Co. Gravel Removal Request, Garrison Dam/Lake Sakakawea Project, McKenzie Co., ND	3391
1984	Gnabasik, V.		Pick City Cottage Area #2, Cultural Resources Survey, Garrison Dam/Lake Sakakawea Project, Mercer Co., ND	5339
1984	Gnabasik, V.		Pick City Cabin Area, Powerline Easement No. DA-25-066-CIVENG-63-215 Garrison Project, Lake Sakakawea, Mercer Co., ND	3373
1984	Gnabasik, V.		Pouch Point Recreation Area, Updated Access Road Right-of-Way and Parking Lot, Vault Toilets, & Boat Ramp Areas Survey, Bureau of Indian Affairs and ND Parks and Recreation Dept., Garrison Project, Lake Sakakawea, Mountrail Co.	3370
1984	Gnabasik, V.		Proposed Boat Ramp & Access Road, Good Bear Bay, Lake Sakakawea, McLean Co., ND	3349
1984	Gnabasik, V.		Reunion Bay Access Road Right-of-Way Cultural Resources Survey, Garrison Dam/Lake Sakakawea Project, Mountrail Co., ND	3372
1984	Gnabasik, V.		Robert A. Barnett, Buried Domestic Waterline Easement, Pick City Cottage Area #2, Lot 8, Garrison Project, Lake Sakakawea, Mercer Co., ND	3388
1984	Gnabasik, V.		White Earth Bay Recreation Area Road Reroute Easement Cultural Resources Survey, Garrison Dam/Lake Sakakawea, Mountrail Co., ND	3480
1984	Gnabasik, V.		William T. Love Powerline Easement Garrison-Oliver Mercer Electrical Co-op Garrison Project, Lake Sakakawea, Mercer Co., ND	3374
1984	Gnabasik, V.		Wolfcreek Sportsman Club Proposed Lease Area Cultural Resources Survey, Wolf Creek Bay, Lake	3392

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			Sakakawea, McLean Co., ND	
1984	Kuehn, D.		A Class I & II Inventory of the Proposed Aminoil Lake Sakakawea Crossing (North Shore), Williams Co., ND	3333
1984	Kuehn, D.		A Class I & II Inventory of the Proposed Aminoil USA Lake Sakakawea Crossing (South Shore) McKenzie Co., ND	3282
1984	Kuehn, D.		An Intensive Cultural Resource Inventory of a Proposed Phillips Natural Gas Pipeline, Section 24, T153N, R102W, Williams Co., ND	3283
1984	Kuehn, D.		An Intensive Cultural Resource Inventory of a Proposed Phillips Natural Gas Pipeline, Sections 20, 29, & 30, T153N, R101W, McKenzie Co., ND	3284
1984	Kuehn, D.	J. Borchert	Archaeological Investigations Along the Portal Beaver Lodge to Alexander Pipeline Williams & McKenzie Counties, ND	3251
1984	Kuehn, D.		Class III Intensive Inventory of the Pennzoil Raub 2-44 Well Pad & Access Road SE/SE Section 2, E½/E½ Section 11, & W½W½ Section 12, T148N, R89W, McLean Co., ND	3259
1984	Larson, T.		Charlson 69 KV Transmission Line (SHSND Case #84-381), McKenzie Co., ND	3484
1984	Linnabery, M.		A Class III Inventory of the Williston Gas Company Pipeline Right of Way Segments Northern Gathering System, McKenzie & Billings Counties, ND, and Supplemental Survey No. 3.	3758
1984	North American Consultants		Cultural Resources Survey of Mine Areas 1, 2 & 4, the Coteau Properties Company, Mercer Co., ND (Volume I)	3231
1984	Peterson, J.		Summary of a Cultural Resources Field Inspection Undertaken For the State Park Service, McLean Co., ND	4727
1985	Blikre, L.		A Cultural Resources Inventory of the Sun-Columbia Gas & Louisiana Land & Exploration-Gulf Pipelines in Williams Co., ND	3658
1985	Borchert, J.		Cultural Resource Survey, Ensearch Energy Medicine Stone Seismic Line, Lines 2 and 3, Dunn & Mercer Counties, ND	3621
1985	Borchert, J.		Cultural Resource Survey, Portal Pipeline Company Hardscrabble Field Pipeline, Williams Co., ND	3640
1985	Christensen, R.	D. Kuehn	A Cultural Resource Inventory of Arma Geophysical Antelope and Spotted Horn Prospects, Fort Berthold Indian Reservation, McKenzie Co., ND	3857
1985	Christensen, R.	D. Kuehn	A Cultural Resource Inventory of the Proposed Matador Trenton Pipeline, Williams Co., ND	3869
1985	Christensen, R.	D. Kuehn	A Prehistoric Resource Inventory of the Proposed Skogen, Olmstead and Hauge RAMP Sites, Mountrail Co., ND	3865
1985	Christensen, R.	D. Kuehn	Class II Cultural Resource Survey Results of Three Tracts on the Fort Berthold Indian Reservation, McKenzie Co., ND	3877
1985	Cultural & Resource Management		A Cultural Resource Survey of the Skogen, Olmstead and Hauge Ramp Sites, Mountrail Co., ND: Historical Investigations	4035
1985	Floodman, M.		Baker Services Dawson Geophysical Company Seismic Line #4, Mountrail Co., ND	3913
1985	Floodman, M.		Baker Services Dawson Geophysical Company Seismic Lines #5 and #6, Mountrail Co., ND	3919
1985	Floodman, M.		Baker Services Dawson Geophysical Company Seismic Lines, McLean Co., ND	3929
1985	Floodman, M.		Baker Services Dawson Geophysical Company, Seismic Line I85-2, McKenzie Co., ND	3908

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1985	Floodman, M.		Baker Services Dawson Geophysical Company, Seismic Line I85-3, McKenzie Co., ND	3909
1985	Floodman, M.		Columbia Gas Development Corp. Federal-Wegley #20-1, McKenzie Co., ND	3695
1985	Floodman, M.		Columbia Gas Development Corporation Federal Star #25-1, Dunn Co., ND	3907
1985	Floodman, M.		Columbia Gas Development Corporation Sovig 13-1 (New Access), Williams Co., ND	3682
1985	Floodman, M.		Cotton Petroleum Corporation Johnson 1-30, McKenzie Co., ND	3696
1985	Floodman, M.		Digicon Geophysical, Inc. Seismic Line, Williams Co., ND	3906
1985	Floodman, M.		E.P. Operating Company Fort Berthold Tribes 1-13, McKenzie Co., ND	3709
1985	Floodman, M.		Edwin L. Cox and Berry R. Cox Martin Federal #15-1, Williams Co., ND	3711
1985	Floodman, M.		Gruss Petroleum Management, Inc. #19-1 Sterud, McKenzie Co., ND	3705
1985	Floodman, M.		Louisiana Land & Exploration Company #1 Haberman 33-13, Williams Co., ND	3703
1985	Floodman, M.		Louisiana Land & Exploration Company #1 Stepanek 43-18, McKenzie Co., ND	3912
1985	Floodman, M.		Mosbacher Production Company Martin Federal 15-1, Williams Co., ND	3704
1985	Floodman, M.		Phillips Petroleum Company Texaco-Silurian Unit Pipeline, McKenzie Co., ND	3694
1985	Floodman, M.		Sheehan Exploration Sonat Seismic Line 85-7, McKenzie Co., ND	3915
1985	Floodman, M.		Sun Exploration & Production Company 160 Acre Block Survey, Williams Co., ND	3693
1985	Floodman, M.		Sun Exploration & Production Company Bergstrom Federal #1 - Restake, Williams Co., ND	3691
1985	Floodman, M.		Sun Exploration & Production Company Bergstrom Federal #1, Williams Co., ND	3690
1985	Floodman, M.		Sun Exploration & Production Company Gannaway Federal #1, Williams Co., ND	3720
1985	Floodman, M.		Sun Exploration & Production Company Oyloe-State-Federal #1, Williams Co. & McKenzie Co., ND	3688
1985	Floodman, M.		Sun Exploration & Production Company Rider Federal State #1, Williams Co., ND	3689
1985	Floodman, M.		Sun Exploration & Production Company Tofte Federal #1, Williams Co., ND	3687
1985	Floodman, M.		Tenneco Oil Company Block Survey, Section 25, Williams Co., ND	3710
1985	Floodman, M.		Texaco Inc. 120 Acre Block Survey, McKenzie Co., ND	3728
1985	Floodman, M.		Texaco Inc. 160 Acre Block Survey for Silurian Unit #46-1, McKenzie Co., ND	3716
1985	Floodman, M.		Texaco Inc. 160 Acre Block Survey, McKenzie Co., ND	3700
1985	Floodman, M.		Texaco Inc. 80 Acre Block Survey, McKenzie Co., ND	3699
1985	Floodman, M.		Texaco Inc. Access Road to Silurian Unit #44-1, McKenzie Co., ND	3714
1985	Floodman, M.		Texaco, Inc. Silurian Unit #48-1 Block Survey, McKenzie Co., ND	3722
1985	Floodman, M.		Texaco Inc. Silurian Unit 39-1, McKenzie Co., ND	3698
1985	Floodman, M.		Texaco Inc. Silurian Unit 39-1, McKenzie Co., ND	3712
1985	Floodman, M.		Texaco Inc. Silurian Unit 49-1, McKenzie Co., ND	3721
1985	Floodman, M.		Western Gas Processors, Ltd. Pipeline, McKenzie Co., ND	3920

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1985	Friedman, P.		Phillips Petroleum Company Pipeline from Columbia #13-1 Sovig, Williams Co., ND	3708
1985	Gnabasik, V.		Aerial Electric Service Line Easement, Mountrail Electric Cooperative, Inc., Garrison Dam/Lake Sakakawea Project, Mountrail Co., ND	3984
1985	Gnabasik, V.		Cemetery with a Partly Exposed Coffin in W½, SW, Section 31, T148N, R89W, McLean Co., ND	4001
1985	Gnabasik, V.		Dedrick Iverson Irrigation Easement, Garrison Dam/Lake Sakakawea Project, McKenzie Co., ND	3987
1985	Gnabasik, V.		Deep Water Creek Cabin Site Area, Cultural Resources Survey, Garrison Dam/Lake Sakakawea Project, McLean Co., ND	3973
1985	Gnabasik, V.		Garrison Cottage Area, Cultural Resources Survey, Garrison Dam/Lake Sakakawea Project, McLean Co., ND	3971
1985	Gnabasik, V.		Long Creek Cottage Area, Cultural Resources Survey, Garrison Dam/Lake Sakakawea Project, Williams Co., ND	3976
1985	Gnabasik, V.		Lower Yellowstone REA, Proposed Buried Electric Distribution Line, Garrison Dam/Lake Sakakawea Project, Williams Co., ND	3986
1985	Gnabasik, V.		McKenzie Electric Cooperative, Inc., Aerial Electric Line ROW, Section 17, 20 and 30, T153N, R101W, Garrison Dam/Lake Sakakawea Project, McKenzie Co., ND	3988
1985	Gnabasik, V.		New Town Colony Site, Cultural Resources Survey, Garrison Dam/Lake Sakakawea Project, Mountrail Co., ND	3972
1985	Gnabasik, V.		ND State Water Commission, Southwest Pipeline Project, Cultural Resources Survey, Garrison Dam/Lake Sakakawea Project, Mercer Co., ND	4004
1985	Gnabasik, V.		Phillips Natural Gas Company, Pipeline Easements, Section 24, T153N, R102W, Williams Co., ND--Garrison Dam/Lake Sakakawea Project	3983
1985	Gnabasik, V.		Proposed Arrowhead Resort, Lucky Mound Creek Bay, Garrison Dam/Lake Sakakawea Project, McLean Co., ND	3977
1985	Gnabasik, V.		Proposed Buried Domestic Waterline/Electric Line with Pump, Private Boat Dock, and Bank Stabilization, Joe Vetter, Jr. & Kurt F. Zerr, Oahe Project, Emmons Co., ND	3993
1985	Gnabasik, V.		Proposed Seidler Slough Drainage Pipeline Route to Lake Audubon, Garrison Dam/Lake Sakakawea Project, McLean Co., ND	3989
1985	Gnabasik, V.		Snake Creek Cottage Area, Cultural Resources Survey, Lake Audubon, Garrison Dam/Lake Sakakawea Project, McLean Co., ND	4000
1985	Gnabasik, V.		Tower Site, Department of Energy, Western Area Power Administration, Garrison Dam/Lake Sakakawea Project, Mercer Co., ND	3990
1985	Greer, J.	M. Greer	An Intensive Cultural Resource Survey of the Basic Earth Science Systems, Inc. Game & Fish 14-2 & 34-3 Well Locations, McKenzie Co., ND	4026
1985	Greer, J.	M. Greer	An Intensive Cultural Resource Survey of the Basic Earth Science Systems, Inc. Rosebud 22-11 Well Location, McKenzie Co., ND (ND-1628)	4024
1985	Greer, J.	M. Greer	An Intensive Cultural Resource Survey of the Williston Gas Company Texaco Silurian 44-1 Pipeline, McKenzie Co., ND (ND-1889)	4031
1985	Gregg, M.	C. Kordecki et al.	Southwest Pipeline Archeology: Initial Survey of Selected Tracts, Adams, Bowman, Hettinger, Grant, Stark, Billings, Golden Valley, Dunn, & Mercer Co., ND	3554

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1985	Kuehn, D.		A Class II Cultural Resource Reconnaissance Inventory of Turtle Mountain Indian Reservation Trust Lands in Williams & Divide Counties, ND	3903
1985	Kuehn, D.		A Class III Intensive Inventory of Segment 1 of the Medicine Stone Seismic Project, Dunn & Mercer Counties, ND	3620
1985	Kuehn, D.		A Class III Inventory of the Twin Buttes Road Improvement Project, Fort Berthold Reservation, Dunn & Mercer Counties, ND	3646
1985	Kuehn, D.		A Cultural Resource Inventory of the Portal-Cotton Johnson Crude Oil Pipeline, McKenzie Co., ND	3881
1985	Kuehn, D.		McKenzie Co., Road Improvement, Survey and Testing	3634
1985	Metcalf, M.		Cultural Resources Inventory for Tenneco Exploration Company's Oleta 1-23 & Cherry 1-26 Block Survey, Williams Co., ND	3770
1985	Metcalf, M.		Cultural Resources Inventory for Tenneco Exploration Company's State 1-19, 2-19, & 3-19 Block Survey, McKenzie Co., ND	3769
1985	Persinger, P.		Results of an Intensive Cultural Resource Survey for a Co., Road Improvement Project in Mountrail Co., ND	3844
1985	Smith, G.		Alkali Lake Ducks Unlimited Project (Job Code: 4410), Williams Co., ND	4114
1985	Smith, G.		Williams Co., Land Sale (Case M-66975 ND)	4116
1986	Blikre, L.	D. Kuehn	A Cultural Resource Inventory of Petty Ray Geophysical Seismic Lines on the Fort Berthold Indian Reservation, McKenzie Co., ND	4133
1986	Blikre, L.	D. Kuehn	A Cultural Resource Survey of the Proposed High Country-National Oil of Virginia Silurian 2-13C Well Location & Access Road, McKenzie Co., ND	4084
1986	Brechtel, J.		Raymond T. Duncan #1 Rose, McKenzie Co., ND	4120
1986	Christensen, R.	D. Kuehn	A Cultural Resource Inventory of the Ecosis-Garrison Project Fort Berthold Indian Reservation, Dunn, Mountrail, & McKenzie Co., ND	4158
1986	Floodman, M.		Broschat Engineering Management Service Edwin L. and Barry Cox, Hagen 1-13, McKenzie Co., ND	3939
1986	Floodman, M.	M. Tate	EP Operating Company Monitor of Fort Berthold Tribes 1-13 Access Road McKenzie Co., ND	4014
1986	Floodman, M.	M. Tate	E.P. Operatng Company Chicago Federal 1-35, Mountrail Co., ND	4121
1986	Floodman, M.	M. Tate	EP Operating Company Chicago Federal 1-35 Relocation, Mountrail Co., ND	4127
1986	Floodman, M.		EP Operating Company New Access to Fort Berthold Tribes 1-13 Well, McKenzie Co., ND	3934
1986	Floodman, M.		Koch Gathering Systems, Inc. E. and B. Cox, #15-1 Martin Federal, Williams Co., ND	3940
1986	Floodman, M.	M. Tate	Louisiana Land & Exploration Company Habermeyer #2 32-13, Williams Co., ND	3935
1986	Floodman, M.		ND State Highway Department Highway 1804 Borrow Areas Williams Co., ND	2063
1986	Floodman, M.		Prairie Eagle Exploration Seismic Line Monitor, McKenzie Co., ND	3931
1986	Floodman, M.		Texaco Inc. Silurian Unit 53-1, Alternate #1, McKenzie Co., ND	4122
1986	Floodman, M.		Texaco Inc. Silurian Unit 53-1, Alternate #3, McKenzie Co., ND	4123
1986	Floodman, M.	M. Tate	Texaco Inc. Silurian Unit 53-1, Alternate #4, McKenzie Co., ND	4124
1986	Floodman, M.	M. Tate	Texaco Inc. Silurian Unit 54-1, McKenzie Co., ND	4125

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1986	Gnabasik, V.		Archeological Review of Proposed Texaco Seismic Program, Texaco USA, Garrison Dam/Lake Sakakawea Project, McKenzie, Mountrail & Williams Counties, ND	3994
1986	Gnabasik, V.		Little Knife Cottage Site, Cultural Resources Survey, Garrison Dam/Lake Sakakawea Project, Mountrail Co., ND	4007
1986	Gnabasik, V.		Proposed Arikara Lodge Resort Cultural Resources Survey, ND Parks & Recreation Department, Garrison Dam/Lake Sakakawea Project, Mercer Co., ND	3996
1986	Gnabasik, V.		Proposed Boat Basin and Parking Lot with Access Road, Indian Hills Recreation Area, Good Bear Bay, Garrison Dam/Lake Sakakawea Project, McLean Co., ND	3995
1986	Gnabasik, V.		Proposed Tree Plantings & Seedings, Tracts F579, F581 and F582A, Garrison Dam/Lake Sakakawea Project, Mercer Co., ND	3998
1986	Gnabasik, V.		Sewer Force Main Cultural Resources Survey, Three Affiliated Tribes, Garrison Dam/Lake Sakakawea Project, McKenzie Co., ND	4012
1986	Gnabasik, V.		West River Mutual Aid Telephone Corp., Buried Telephone Cable Easement Request, Garrison Dam/Lake Sakakawea Project, Mercer Co., ND	3999
1986	Gnabasik, V.		White Earth Bay Cottage Site, Cultural Resources Survey, Garrison Dam/Lake Sakakawea Project, Mountrail Co., ND	3974
1986	Greer, J.	M. Greer	An Intensive Cultural Resource Survey of the Basic Earth Science Systems, Inc. Basic Corps of Engineers 31-10 Well Pad and Access Road, McKenzie Co., ND	4032
1986	Greer, J.	M. Greer	An Intensive Cultural Resource Survey of the Basic Earth Science Systems, Inc. Basic Game & Fish 24-3 Well Pad & Access Road, McKenzie Co., ND	4189
1986	Kuehn, D.		A Cultural Resource Inventory of One Mile of Proposed Road Improvement Along Forest Service Road 57, McKenzie Co., ND	4106
1986	Kuehn, D.		A Cultural Resource Inventory of the General Atlantic Energy (Spotted Bear 24-6 Well Location & Access Road), Fort Berthold Reservation, McKenzie Co., ND	4075
1986	Kuehn, D.		A Cultural Resource Inventory of the Skunk Creek Bay Recreation Area US Army Corps of Engineers Portion, Dunn Co., ND	4148
1986	Kuehn, D.		A Cultural Resource Inventory of the Soil Conservation Service's McNamara & Ehler RAMP Sites, Mountrail Co., ND	4079
1986	Kuehn, D.		A Cultural Resource Inventory of Two Portions of a Koch Natural Gas Pipeline in Sections 25, T149N, R96W; Section 30, T149N, R95W; Sections 1 & 2, T149N, R97W, McKenzie Co., ND	4142
1986	LaPoint, H.		Reservation Telephone Line, McKenzie Co., ND	4218
1986	Noisat, B.	J. Campbell et al.	A Reconnaissance Survey and Preliminary Assessment of the Cultural Resources of Lake Sakakawea in Williams and McKenzie Counties, North Dakota, Vols. 1 & 2	4294
1986	Tate, M.		SeisPros Services, Inc. HC-1-86 & HC-2-86 Dunn Co., ND	1883
1987	Artz, J.	C. Haury et al.	Southwest Pipeline Archeology: An Intensive Survey for Cultural Resources in Ten Counties of Southwestern ND, Adams, Bowman, Hettinger, Grant, Stark, Billings, Morton, Golden Valley, Dunn, & Mercer	4247
1987	Banks, K.		A Cultural Resources Inventory of a Proposed Above-Ground Power Line on the Benson Allotment, Ft. Berthold Agency, Dunn Co., ND	4412

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1987	Banks, K.		A Cultural Resources Inventory of a Proposed Buried Telephone Cable on the Harmon Allotment, Ft. Berthold Agency, Dunn Co., ND	4411
1987	Banks, K.		A Cultural Resources Inventory of a Proposed Farm Breakout on the Ida Beston Allotment, Ft. Berthold Agency, McLean Co., ND	4487
1987	Banks, K.		A Cultural Resources Inventory of a Proposed Gravel Quarry on the Benson Family Allotment, Ft. Berthold Agency, Dunn Co., ND	4414
1987	Banks, K.		A Cultural Resources Inventory of a Proposed Gravel Quarry on the Virgil Eagle Allotment, Ft. Berthold Agency, Dunn Co., ND	4413
1987	Banks, K.		A Cultural Resources Inventory of an Extension to a Proposed Gravel Quarry on the Virgil Eagle Allotment, Ft. Berthold Agency, Dunn Co., ND	4415
1987	Banks, K.		A Cultural Resources Inventory of the Proposed Twin Buttes Community Center, Ft. Berthold Agency, Dunn Co., ND	4416
1987	Blikre, L.	D. Kuehn	A Cultural Resource Inventory of Select Areas Along Highway 1804, Williams Co., ND	4232
1987	Blikre, L.	D. Kuehn	A Cultural Resource Inventory of Sonics Exploration Seismic Lines on the Fort Berthold Indian Reservation, McKenzie Co., ND	4300
1987	Blikre, L.	D. Kuehn	A Cultural Resource Inventory of Two Phillips Pipeline Routes on the Fort Berthold Indian Reservation McKenzie Co., ND	4236
1987	Borchert, J.		The Red Wing Creek Extension Cultural Resources Inventory, McKenzie Co., ND	4316
1987	Brechtel, J.		Cultural Resource Survey Report Mildred #1 Well Location and Access, McKenzie Co., ND	4585
1987	Floodman, M.		John L. Cox M.G. 14-2 McKenzie Co., ND	4289
1987	Floodman, M.		Koch Gathering Systems, Inc. Pipelines (Segments #1, #2, and Reroute) Williams Co., ND	4387
1987	Floodman, M.		Raymond T. Duncan #1 Fox McKenzie Co., ND	4384
1987	Floodman, M.		Texaco, Inc. CMNUD #3-34 McKenzie Co., ND	4380
1987	Floodman, M.		Wesley Energy Company Ella Many Ribs #2-B McKenzie Co., ND	4386
1987	Floodman, M.		Western Gas Processors, Ltd. Pipeline to French Penny 24-3 McKenzie Co., ND	4383
1987	Gnabasik, V.		Garrison Creek Cottage Area, Cultural Resources Survey, Garrison Dam/Lake Sakakawea Project, McLean Co., ND	5336
1987	Hill, M.		P13 A1 Rangewater Pipeline, McKenzie Co., ND	4491
1987	Hill, M.		Sand Creek Road, McKenzie Co., ND	4362
1987	Hill, M.		State Water Well, McKenzie Co., ND	4363
1987	Metcalf, M.	K. Schweigert	Cultural Resources Investigations on the ND Segment of the Exxon Company, USA Bairoil - Dakota CO2 Pipeline Project, Golden Valley, Billings, Stark, Dunn, McKenzie, & Williams Co., Western ND, Vols 1 & 2	4319
1987	Schweigert, K.	R. Persinger	Results of a Cultural Resource Inventory & Evaluation the Lovejoy AML Project, Williams Co., ND	4420
1987	Smith, G.		1987 McKenzie Co., Class III Inventory No. 1	4195
1987	Winham, R.	K. Lippincott et al.	Cultural Resource Reconnaissance of US Army Corps of Engineers Land Alongside Lake Sakakawea in Dunn Co., ND Vols. 1 & 2, Appendices	4293
1987	Winham, R.	K. Lippincott et al.	Cultural Resource Reconnaissance of US Army Corps of Engineers Land Alongside Lake Sakakawea in Mountrail Co., ND	5325
1988	Banks, K.		A Cultural Resources Inventory of Four Cluster Low-Rent and Five Prototype Scattered Mutual Self-Help Homesites, Ft. Berthold Agency, Dunn, McKenzie, McLean, & Mountrail Counties, ND	4539

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1988	Banks, K.		A Cultural Resources Inventory of Three Utility Line Rights-Of-Way Ft. Berthold Agency, Dunn & Mountrail Counties, ND	4551
1988	Banks, K.		By The Sea, The Beautiful Sea: A Cultural Resources Inventory of the Pouch Point Trailer Park, Ft. Berthold Agency, Mountrail Co., ND	4653
1988	Banks, K.		Got Rocks In Your Head?: A Cultural Resources Inventory of a Proposed Gravel Pit, Ft. Berthold Agency, McKenzie Co., ND	4590
1988	Banks, K.		I'll Huff & I'll Puff & HUD Will Blow These Houses Down: A Cultural Resources Inventory of 27 Mutual Self-Help Homesites, Ft. Berthold Agency, Dunn, McKenzie, McLean, Mercer, & Mountrail Counties ND	5778
1988	Banks, K.		Let Their Be Light: A Cultural Resources Inventory of the Proposed Brochlin Utility Line, Ft. Berthold Agency, McLean Co., ND	4650
1988	Banks, K.		Let Their Be More Light: A Cultural Resources Inventory of the Romero & Benoit Homesites, Ft. Berthold Agency, McLean Co., ND	4649
1988	Banks, K.		Long Distance Information, Give Me Memphis, Tennessee: A Cultural Resource Inventory of Three Telephone Utility Lines, Ft. Berthold Agency, McKenzie Co., ND	4659
1988	Banks, K.		Somewhere Over The Rainbow: A Cultural Resources Inventory of the Proposed Quale Water Well & Utility Line, Ft. Berthold Agency, McKenzie Co., ND	4643
1988	Banks, K.		The Long and Winding Road: A Cultural Resources Inventory of Three Road Projects, Ft. Berthold Agency, Dunn and McKenzie Counties, ND	4698
1988	Banks, K.		The Singing Wire: A Cultural Resources Inventory of a Utility Line Right-Of-Way and Homesite, Ft. Berthold Agency, McLean Co., ND	4589
1988	Banks, K.		Through The Glass Darkly: A Cultural Resources Inventory of the Gertrude Sillitti Homesite, Ft. Berthold Agency, Mountrail Co., ND	4640
1988	Banks, K.		Through The Glass Lightly: A Cultural Resources Inventory of the Arlie Knight Homesite, Ft. Berthold Agency, McKenzie Co., ND	4641
1988	Blikre, L.	J. Borchert	Two Crow #1-5 Oil Well Pad & Access Cultural Resource Inventory Fort Berthold Indian Reservation, Dunn Co., ND	4522
1988	Borchert, J.	D. Kuehn	Koch Hydrocarbons Pipeline Cultural Resource Inventory in McKenzie Co., ND	4776
1988	Borchert, J.	D. Kuehn	Koch-Berger 23-14 Well Pad Cultural Resources Inventory Williams Co., ND	4620
1988	Borchert, J.		MDU-Basin Charlie Creek to Williston 230 KV Electric Transmission Line, Williams & McKenzie Co., ND	4506
1988	Burbidge, G.	D. Kuehn	John Iverson Powerline & Buried Telephone Cable Cultural Resource Inventory on the Fort Berthold Indian Reservation, McKenzie Co., ND	4456
1988	Coutant, B.	T. Del Bene	Report of Class III Cultural Resource Surveys of Improvements to Water Systems at Twin Buttes and Mandaree, Fort Berthold Indian Reservation, McKenzie Co., ND	5561
1988	Fiege, M.	F. Quivik et al.	Final Report of Reconnaissance Surveys in Williston, Kenmare, & Eight Smaller Communities in Mountrail, Williams, Ward, & Renville Counties in Northwestern ND	4540
1988	Floodman, M.		A Cultural Resources Inventory of the Proposed Northern Border Connection Pipeline McKenzie Co., ND Vols. I & II	4724
1988	Floodman, M.		ARMA Geophysical Company, Inc. Seismic Line McLean Co., ND	4664
1988	Floodman, M.	M. Tate	Cabot Petroleum Corporation 42-20 Gjorven Federal Williams Co., ND	4543

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1988	Floodman, M.		Draft Final Report of a Cultural Resources Inventory of Lands Owned by the Omaha District, Along the Shoreline of Lake Sakakawea, Mercer Co., ND	4601
1988	Floodman, M.		John L. Cox Mildred #1 McKenzie Co., ND	4623
1988	Ford, D.	D. Kuehn	West Rock Slough/Dike Project Lostwood National Wildlife Refuge Burke Co., ND	4534
1988	Fox, R.		Results of the Class III Inventory of the Koch Hydrocarbons' Plaza to Bear Den Pipeline on the Fort Berthold Indian Reservation, McKenzie & Mountrail Counties, ND	4694
1988	Gnabasik, V.		Mahto Bay Cottage Area, Cultural Resources Survey, Garrison Dam/Lake Sakakawea Project, Mercer Co., ND	5337
1988	Gnabasik, V.		Pick City #1 Cottage Area, Cultural Resources Survey, Garrison Dam/Lake Sakakawea Project, Mercer Co., ND	5338
1988	Kuehn, D.		Phillips R. T. Duncan Fox No. 1 Natural Gas Pipeline Cultural Resource Inventory, Fort Berthold Reservation, McKenzie Co., ND	4476
1988	Metcalf, M.	A. McKibbin et al.	A Class II Cultural Resource Survey of Five Coal Study Areas, Williams, Divide, Hettinger, Slope, Bowman, Grant, & Adams Counties, Western ND	4557
1988	Newberry, G.		SeisPros Services, Inc. Seismic Lines 1, 3, & 4 McKenzie Co., ND	5779
1988	Persinger, R.		Trenton Gravel Pit Archeological Survey, Williams Co., ND	4630
1988	Schweigert, K.		Cultural Inventory of a Farmstead Near Emmet, McLean Co., ND	4598
1988	Welch, J.		Class III Cultural Resource Inventory of Wessely Energy Company Ella Many Ribs #1A-2 Amended Access Road Route, McKenzie Co., ND	4462
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1988	Welch, J.		Class III Cultural Resource Inventory of Wessely Energy Company Harvey Hopkins #3A-2 Well & Access Road, McKenzie Co., ND	4464
1989	Banks, K.		The White Shields and Four Bears Geotechnical Drilling Project: A Cultural Resources Inventory, Ft. Berthold Indian Reservation, McLean & McKenzie Counties, ND	4871
1989	Borchert, J.	J. Foster	McLean-Sheridan Water Pipeline Additional Cultural Resource Inventory in McLean Co., ND	4826
1989	Borchert, J.	D. Kuehn	Mountrail Co., Road Improvement Project CDE-E111(801)311 Cultural Resource Inventory	4784
1989	Borchert, J.	D. Kuehn	Mountrail Co., Road Project CDE-M111(801)311 Cultural Resource Inventory	4690
1989	Borchert, J.	J. Foster	New Town Transmission Piping Project Cultural Resource Inventory Mountrail Co., ND	4786
1989	Burbidge, G.	J. Borchert	Sherwood Shoreline Survey Seis Pro Line 305, McLean Co., ND	4881
1989	Christensen, R.		A Class III Intensive Survey and Inventory of Kock Hydrocarbon Company's Proposed Natural Gas Flow-line, Section 16, T152N, R88W, Mountrail Co., ND	5081
1989	Christensen, R.		Archaeological Survey of ND State Highway Department Stockpile Area in SE 1/4, Section 3, T153 N, R102 W, Williams Co., ND, & Archaeological Significance Testing of Site 32WI310	4707

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1989	Floodman, M.		A Cultural Resources Inventory of the Proposed Kneeling Moose Area, Ramsey Co. & Wildlife Development Areas in Fence Construction Contract, Cavalier, Nelson, Benson, Wells, Sheridan, McLean & Burleigh Co., ND	4850
1989	Floodman, M.		A Cultural Resources Inventory of the Proposed Northern Border Connection Pipeline, Survey of Re-Routes McKenzie Co., ND	4750
1989	Floodman, M.		Des Lacs Sand & Gravel Proposed Gravel Pit Location Mercer Co., ND	4764
1989	Floodman, M.		Frontier Exploration, Inc. Dodge Trend Prospect, Seismic Lines F, G & Shot Points McLean Co., ND	4765
1989	Floodman, M.		Koch Hydrocarbon Company Hanson 1-24 Flowline McKenzie Co., ND	4892
1989	Floodman, M.		Long Petroleum, Inc. Emma Coffee #1 McLean Co., ND	4778
1989	Floodman, M.		Seismographic Line McKenzie Co., ND T153 R102 S34 & T152 R102 Section 6	4729
1989	Foster, J.	D. Kuehn	McLean-Sheridan Rural Water Pipeline Cultural Resources Survey Report	4897
1989	Foster, J.	J. Borchert	Ross Road Survey CRS 3115(15) Mountrail Co., ND	4822
1989	Fox, R.		Charlson Road Project Cultural Resource Inventory McKenzie Co., ND	4898
1989	Good, K.		ND State Highway Department Highway 37 Improvement Project-Barrow Pit, McLean Co.: A Class III Cultural Resources Survey	4861
1989	Hill, M.		A Cultural Resources Inventory for the Proposed Charlson Dugout Stockpond on the McKenzie Ranger District in McKenzie Co., ND	4751
1989	Hill, M.		Rolfsrud Pipeline, McKenzie Co., ND	5020
1989	Melton, D.		Low Rent Rendezvous: A Cultural Resources Inventory of 67 Mutual Self-Help Homesites, Ft. Berthold Agency, Dunn, McKenzie, McLean, Mercer & Mountrail Counties, ND	5040
1989	Schweigert, K.	R. Persinger	Delvin Driver Homesite Class III Inventory Fort Berthold Reservation, Mountrail Co., ND	4867
1989	Schweigert, K.	R. Persinger	Fort Berthold Housing Authority House Location and Utility Lines Cultural Resource Survey, Mountrail, McKenzie & Dunn Counties Fort Berthold Reservation, ND	4927
1989	Schweigert, K.	R. Persinger	Koch Gathering Systems Plaza to Bear Den Pipeline Class III Inventory, Testing, & Site Evaluation McKenzie and Mountrail Counties, ND	4734
1989	Welch, J.		Class I Cultural Resource Inventory of Raymond T. Duncan Oil Properties Spotted Horn Unit Area, McKenzie Co., ND	4797
1989	Welch, J.		Class III Cultural Resource Inventory of Raymond T. Duncan Oil Properties Olive Wells #1-6 Re-entry Well & Access Road, McKenzie Co., ND	4939
1989	Welch, J.		Class III Cultural Resource Inventory of Raymond T. Duncan Oil Properties Wolf Federal #1 Well & Access Road, McKenzie Co., ND	4747
1989	Wenker, C.	J. Borchert	Charlson Road Improvement Cultural Resource Inventory McKenzie Co., ND	4944
1989	Wenker, C.	J. Borchert	Texaco Seismic Testing Class III Cultural Resource Inventory in McLean Co., ND	4745
1990	Banks, K.		Snake Creek Pumping Station: A Cultural Resources Inventory, McLean Co., ND	5328
1990	Burbidge, G.	J. Borchert	Frontier Exploration's BIA Case No. AAO-208/FB/90 McLean Co., ND	5113
1990	Burbidge, G.	J. Brownell et al.	Parshall Road Evaluative Work Mountrail Co., ND	4828
1990	Burbidge, G.	J. Borchert	The Tom Yellow Wolf Store, Cultural Resource Inventory Mandaree, McKenzie Co., ND	4969

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1990	Chevance, N.		A Gravel Pit Near Belcourt & a Gaming Hall at the State Line: Intensive Cultural Resources Inventories of Proposed Projects For the Turtle Mountain Agency, Rolette & Williams Counties, ND	5204
1990	Chevance, N.		The Roger Bird Bear Homesite & the Fort Berthold Communications Enterprises Newspaper Facility: Intensive Cultural Resources Inventories of Proposed Projects For the Fort Berthold Agency, McKenzie Co., ND	5043
1990	Christensen, R.	R. Persinger	Select FMHA Tracts in Mercer Co., ND, Class III Cultural Resource Inventory	5310
1990	Emerson, A.	J. Borchert	Class III Cultural Resource Inventory of the Four Bears Distribution System, Fort Berthold Indian Reservation, McKenzie Co., ND	5268
1990	Floodman, M.		Pasture 12-1 Spring Development Little Missouri National Grasslands McKenzie Ranger District Section 11 T153N R96W, McKenzie Co., ND	5183
1990	Floodman, M.		Pasture 13-1A Range Water Pipeline Replacement McKenzie District, Little Missouri National Grasslands Sections 8 & 9 T153N R96W McKenzie Co., ND	5248
1990	Floodman, M.		PWA #31 FDR 780 Road Improvement Project McKenzie District, Little Missouri National Grasslands Section 31 T154N R96W & Section 6 T153N R96W McKenzie Co., ND	5178
1990	Klinner, D.	J. Borchert	HKM White Shield Distribution System, McLean Co., ND	5275
1990	Klinner, D.	J. Borchert	Interstate Engineering's Grading North of Golden Valley Project B88-49 Cultural Resource Inventory Mercer Co., ND	5108
1990	Klinner, D.	L. Peterson	KLJ Project CBRS-3110(51) Cultural Resource Inventory Mountrail Co., ND	5276
1990	Lewis, R.		Miller Lake, Divide Co., ND	5238
1990	Olson, B.		Amerada Hess Corporation Pipeline between Texaco Silurian 44-1 & Texaco Silurian 37-1 McKenzie Co., ND	5151
1990	Olson, B.		Frontier Exploration, Inc. Seismic Lines: #90-BY9-101, #90-BY9-102, #90-BY9-103, #90-BY9-104, & #90-BY9-105 Cultural Resources Inventory McKenzie Co., ND	5220
1990	Olson, B.		McKenzie Electric Cooperative, Inc. Powerline Relocation along Figure 4 Road Cultural Resources Inventory Dunn and McKenzie Counties, ND	5158
1990	Olson, B.		McKenzie Electric Cooperative, Inc. Powerline Relocation on ND State Highway 22 Cultural Resources Inventory McKenzie Co., ND	5223
1990	Olson, B.		McKenzie Electric Cooperative, Inc. Proposed Overhead Powerline to the Fort Berthold Buffalo Herd Handling Facility Dunn Co., ND	5427
1990	Olson, B.		Texaco, Inc. Silurian Unit 23, Well #2, Cultural Resources Inventory McKenzie Co., ND	5225
1990	Olson, B.		Three Affiliated Tribes Tribal Buffalo Herd Handling Facility Cultural Resources Inventory Dunn Co., ND	5226
1990	Peterson, L.	J. Borchert	A Class III Cultural Resource Inventory of a Proposed Presidio Oil Well Pad, Access Road & Pipeline in the SE/SW of Section 14, T149N, R89W, McLean Co., ND	5355
1990	Peterson, L.		Class III Cultural Resource Inventory of the Parshall Road Improvement (DE-E111(801)312) in the NE¼ of Section 35, T145, R90W, Mountrail Co., ND	5116
1990	Peterson, L.	G. Wermers et al.	Mountrail Co. Electric Cooperative's Alteration of Electric Distribution System	5292
1990	Pool, K.		A Class III Inventory of the Proposed Fort Berthold Community College Multipurpose Education Center, New Town, Mountrail Co., ND	5306

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1990	Sanders, P.	D. Penny et al.	Results of a Class III Cultural Resource Inventory of Selected Bureau of Land Management Parcels, Ward, Renville, Cavalier, Mountrail, McKenzie, Williams, Ward, Golden Valley, Dunn, & McHenry Counties, ND, Vol. 1	5499
1990	Späth, C.		Balcron Oil Company #42-35 Zahnow Cultural Resource Inventory McLean Co., ND	5215
1990	Späth, C.	N. Ross et al.	Dakota Star Reserve Cultural Resource Inventory, Mercer Co., ND	5455
1990	Späth, C.		Fort Berthold Housesites, Class III Cultural Resource Inventory, Dunn Co., ND	5214
1990	Wermers, G.	J. Borchert	A Class III Cultural Resource Inventory for Twenty-Seven Additional Miles of the McLean-Sheridan Rural Water Supply Project	5122
1990	Wermers, G.	J. Borchert	US West Buried Cable Class III Cultural Resource Inventory Williams Co., ND	5300
1991	Blikre, L.		Century Geophysical Seismic Line For Oryx and Amerada Hess, Williams Co., Class III Cultural Resource Inventory	5708
1991	Blikre, L.	J. Borchert	Estevan Coal Corporation Exploration Program in the Fortuna Region, Divide Co.: Class III Cultural Resource Inventory	5650
1991	Blikre, L.		Reliable Exploration/Axem Resources Seismic Line, Dunn and Mercer Co., BIA Case No. AAO-298/FB/91	5610
1991	Blikre, L.	J. Borchert	Texaco Charlson 3-D Seismic Project #30161 US Forest Service Property, McKenzie Co., ND	5654
1991	Blikre, L.		Western Gas Monitoring McKenzie Co., ND UW #1454	5569
1991	Borchert, J.		Amoco Pipeline Company Connecting the Dorough #9 Well to the Keene Station, McKenzie Co., Cultural Resource Inventory	5656
1991	Borchert, J.		Reliable Exploration Cultural Resource Inventory of Portions of a Seismic Line For Presidio Mercer Co., ND	5344
1991	Borchert, J.		Reliable Exploration Cultural Resource Inventory of Portions of Seismic Lines for the Coastal Oil Cremerville & Deepwater Creek Prospects McLean Co., ND	5345
1991	Borchert, J.		Resurvey-White Shield Distribution System, McLean Co.	5667
1991	Borchert, J.		Texaco Charlson 3-D Seismic Project #30161 Corps of Engineers Property Cultural Resource Inventory McKenzie Co., ND	5712
1991	Borchert, J.		Western Gas Processors Pipeline in Northeastern McKenzie Co., ND	5574
1991	Christensen, R.		Balcron Oil Federal 44-35 Zahnow, McLean Co.: A Class III Cultural Resource Inventory	5589
1991	Christensen, R.		ND 23: A Class III Cultural Resources Inventory West of New Town: McKenzie and Mountrail Counties F-7-023(010)035	5684
1991	Christensen, R.		ND 23: A Class III Cultural Resources Inventory West of New Town: Mountrail Co., F-7-023(011)046	5685
1991	Christensen, R.		Results of an Intensive, Class III Cultural Resource Inventory of Divide Co., Highway 21 (CRS-1249) Project	5393
1991	Floodman, M.		Mogen Land Exchange McKenzie District, Little Missouri National Grasslands Section 14, 23 T153N, R96W McKenzie Co., ND	5892
1991	Floodman, M.		Nelson Allotment Water Projects McKenzie District, Little Missouri National Grasslands Sections 8, 27, 28, 33 T151N, R95W McKenzie Co., ND	5533
1991	Good, K.		US 85 - Watford City West, McKenzie Co., Class III Cultural Resources Inventory Report	5412

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1991	Lueck, E.	K. Lippincott et al.	Cultural Resource Reconnaissance of US Army Corps of Engineers Land Alongside Lake Sakakawea & Audubon Lake in McLean Co., ND Vols. 1 & 2	5706
1991	Newberry, G.		A Cultural Resources Inventory For Geolinear Company #2-17 Soward Well Location & Access Dunn Co., ND	5414
1991	Newberry, G.		Geolinear Company 4-17 Clark, Cultural Resources Inventory Dunn Co., ND	5415
1991	Olson, B.		Diamond Resources, Inc. Amerada Hess Corporation Government Dorough #9 Gasline Cultural Resources Inventory, McKenzie Co., ND	5627
1991	Olson, B.		Diamond Resources, Inc. Pipeline to the Gudbronsen Well, Cultural Resources Inventory, McKenzie Co., ND	5421
1991	Olson, B.		Geolinear Company 3-17 Fox (Alternate Access Road) Cultural Resources Inventory Dunn Co., ND	5521
1991	Olson, B.		Geolinear Company 3-17 Fox, Cultural Resources Inventory Dunn Co., ND	5422
1991	Otto, R.		Cultural Resources Investigation of the Proposed Little Egypt Recreational Area Williams Co., ND	5465
1991	Peterson, L.	J. Borchert	Western Gas Processors Pipeline Through Portions of Sections 14, 15, 23 & 24, T153N, R96W, McKenzie Co., ND	5581
1991	Stine, E.		Des Lacs Sand and Gravel Missile Access Gravel Pit Class III Cultural Resource Inventory Mountrail Co., ND	5602
1991	Stine, E.		Fisher Sand and Gravel Pit T152N, R101W, Section 26, McKenzie Co., for ND Highway Project #F-7-085(018)-162 Cultural Resource Inventory	5603
1991	Welch, J.	D. Day, Jr.	Class III Cultural Resource Inventory of Duncan Energy Company Bluestone #44-25 Well & Access Road, McLean Co., ND	5634
1992	Blikre, L.	J. Borchert	Des Lacs Sand and Gravel, Gravel Pit, McKenzie Co., Class III Cultural Resource Inventory (Project #NH-7-085-(022)152)	5782
1992	Blikre, L.		White Earth River Bridge Replacement Mountrail Co., Structure No. 107-04 Class III Cultural Resource Inventory	5843
1992	Borchert, J.	L. Blikre	Axem Resources Sakakawea #7-29 Well Pad & Access Class III Cultural Resource Inventory Mercer Co., ND	5907
1992	Chevance, N.		Intensive Cultural Resources Inventories of the Marty Benson Home Site & Two Proposed Powerline Projects, Fort Berthold Agency, Dunn & McKenzie Counties, ND	5680
1992	Driscoll, P.	M. Gregg	1992 Wildlife Development Area Surveys in Ramsey, Sheridan, Sargent, & McLean Counties, Central & Eastern North Dakota	5881
1992	Floodman, M.		Brenna Dam McKenzie District, Little Missouri National Grasslands Section 8 & 17 T153N, R94W, McKenzie Co., ND	5751
1992	Floodman, M.		Mogen Land Exchange II McKenzie District, Little Missouri National Grasslands Section 21 & 28 T153N, R96W McKenzie Co., ND	5893
1992	Floodman, M.		Nelson Spring Developments Section 9 & 23 T151N R95W McKenzie District, Little Missouri National Grasslands McKenzie Co., ND	5761
1992	Floodman, M.		Pasture 12-5 Fence McKenzie District, Little Missouri National Grasslands Section 8, 9, 17, T153N R94W McKenzie Co., ND	5768
1992	Floodman, M.		Pasture 12-7 Fences McKenzie District, Little Missouri National Grasslands Section 31 & 32 T153N R93W McKenzie Co., ND	5769
1992	Floodman, M.		Rolfsrud Pasture 13 Fencelines McKenzie District, Little Missouri National Grasslands McKenzie Co., ND	5771
1992	Floodman, M.		Thompson Land Exchange McKenzie District, Little Missouri National Grasslands Section 25 & 26 T153N	6171

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1992	Foster, J.	G. Wermers et al.	Burke Co. Road Improvement Class III Cultural Resource Inventory Final Report (Project #DPI-0182(001)0701)	5728
1992	Good, K.		Highway 23, Box Culvert Replacement in Mountrail Co., ND, Project BR-7-023(012)053	5691
1992	Johnson, L.	M. Hufstetler et al.	Historic Bridges in ND	5920
1992	Kinney, J.		Larson Tibesar Associates, Inc., Cultural Resource Inventory Report for the Grandview AML Site at Williston, Williams Co., ND	5737
1992	Kinney, J.	T. Larson et al.	Results of the 1991-1992 Class III Cultural Resource Inventory of Selected Bureau of Land Management Tracts, Divide, McHenry, Williams, Pierce, McKenzie, Ward, Benson, Grant, Sheridan, & McLean Co., ND, Vols. I & II	5904
1992	Lubinski, P.		Tioga To Stanley Water Pipeline In Mountrail and Williams Counties, ND: A Class III Cultural Resource Inventory	5986
1992	Olson, B.		Amerada Hess Corporation, 10 Inch Natural Gas Pipeline Project Cultural Resources Inventory McKenzie and Williams Counties, ND & Final Report	5749
1992	Olson, B.		Amerada Hess Corporation, 10 Inch Natural Gas Pipeline Project Cultural Resources Inventory Revised Report Addendum McKenzie & Williams Counties, ND	5748
1992	Olson, B.		Condor Petroleum, Inc. #2-1 Federal Cultural Resources Inventory Divide Co., ND	5675
1992	Olson, B.		Conoco, Inc. Interlake #21 Cultural Resources Inventory Divide Co., ND	5676
1992	Olson, B.		Geolinear Company #1-20 Thorton Cultural Resources Inventory Dunn Co., ND	5678
1992	Olson, B.		Geolinear Company #1-28 Corrin, #2-21 Lonefight, & #3-21 Tony Cultural Resources Inventories McKenzie Co., ND	5828
1992	Olson, B.		Geolinear Company #2-20 Dennis Cultural Resources Inventory Dunn Co., ND	5679
1992	Stine, E.		Dakota Star Reserve-1991 A Class III Cultural Resource Inventory Mercer Co., ND	6205
1992	Stine, E.		Skjermo Lake A Proposed Vaulted Toilet Location A Class III Cultural Resource Inventory Divide Co., ND	5998
1992	Wermers, G.	J. Borchert	Burke Co., 80 Acre Wetlands Class III Cultural Resource Inventory	5780
1993	Banks, K.		The Four Bears Operation and Maintenance Shed & Yard: A Cultural Resources Inventory Ft. Berthold Indian Reservation, McKenzie Co., ND	6078
1993	Blikre, L.		Schriock Construction CDE-M111(801)313 & CDE-E111(801)314 Road Construction Gravel Source Class III Cultural Resource Inventory Mountrail Co., ND	6037
1993	Borchert, J.		Highway 1804 Borrow Area at Gamache Creek, Williams Co., Class III Cultural Resource Inventory	6219
1993	Borchert, J.		McKenzie Electric Cooperative, Inc. 1993-1994 Construction Routes in Dunn & McKenzie Counties, Class III Cultural Resource Inventory	6051
1993	Floodman, M.		Pasture 12-7 Water Well McKenzie District, Little Missouri National Grasslands Section 23, T153N, R94W McKenzie Co., ND D8-93-23	5976
1993	Floodman, M.		Pasture 12-7 Water Well Relocation McKenzie District, Little Missouri National Grasslands Section 23, T153N, R94W McKenzie Co., ND	5977
1993	Lahren, L.		Cultural Resource Evaluations of the Custer AML Area,	6188

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			McLean Co., ND	
1993	Larson, T.	W. Kinney et al.	Report of Findings From An Intensive Cultural Resource Inventory Conducted For the Garrison Rural Water Project, McLean Co., ND	5924
1993	Light, P.		Class III Cultural Resource Inventory of Duncan Energy Company Mollie #1 Well, Tank Battery, & Access Road, McLean Co., ND	6130
1993	Olson, B.		Edwards, Stevick, & Osdahl Gravel Pits Cultural Resources Inventory Mountrail Co., ND	5950
1993	Olson, B.		Highway 23 Borrow Area Cultural Resources Inventory Mountrail Co., ND	6096
1993	Olson, B.		Williams Co., Highway #5 Reconstruction Cultural Resources Inventory Williams Co., ND	6098
1993	Stine, E.		Burke Divide Electric Cooperative Utility Line Upgrade: A Class III Cultural Resource Inventory Divide Co., ND	6163
1993	Stine, E.		Des Lacs Garrison Gravel Pit: A Class III Cultural Resource Inventory in McLean Co., ND	6166
1993	Stine, E.		Lignite To Ramberg Canadian Crude Project Cultural Resource Reconnaissance, Burke and Mountrail Counties, ND	5995
1994	Borchert, J.		Fort Berthold Indian Reservation, Stock Dam Locations in McKenzie, Mountrail and Dunn Counties, Class III Cultural Resource Inventory	6297
1994	Boughton, J.	J. Brownell et al.	Coteau: A Cultural Resource Inventory of the North Mine Extension Area, Mercer Co., ND	6245
1994	Good, K.		Tobacco Garden Creek Culvert Replacement Project, Williams Co.: A Class III Cultural Resource Inventory Report	6206
1994	Kulevsky, A.		Halliday to Twin Buttes Fiber Optics Route: A Class III Cultural Resource Inventory in Dunn Co., ND	6334
1994	Kulevsky, A.		McKenzie Co., Grazing Association's 12-7 Rangeland Development Project: A Class III Cultural Resource Inventory in McKenzie Co., ND	6307
1994	Kulevsky, A.		Minot Paving Company's Willard Hanson Gravel Pit: A Class III Cultural Resource Inventory in Mountrail Co., ND	6308
1994	Larson, T.		Larson-Tibesar Associates, Inc. Cultural Resource Inventory Report for a McKenzie Co., Electric, Underground Power Line, Texaco D234PL	6403
1994	Maginniss, H.	J. Hess et al.	Historical & Architectural Inventory of Eighteen Rural Roman Catholic Churches in the Diocese of Bismarck, ND	6248
1994	Olson, B.		Pfenning Gravel Source Mercer Co., ND	6216
1994	Stine, E.		Lunds Valley Gravel Pit: A Class III Cultural Resource Inventory Mountrail Co., ND	6304
1994	Tate, M.		Duce Oil LTD Proposed Reroute T153N, R96W Sec 10 Tobacco Garden Bay McKenzie Co., ND	6241
1994	Wermers, G.		Aggregate Construction Inc. Proposed Gravel Pit Class III Cultural Resource Inventory Williams Co., ND	6250
1995	Borchert, J.		Hwy 1804 from 4400' E of the Marley Crossing to the Montana Border, Williams Co., Class III Cultural Resource Inventory	6578
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1999	Wermers, G.		Road Improvement Project in Portions of T154N, R88W, T155N, R88W & T156N, R88W, Mountrail Co., ND	8162
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2005	Springer, K.		05-061-085 Wildlife Watering Facility Project, Cultural Resources Inventory, Mountrail Co., ND	9570
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2005	Stine, E.		Sheldon Pit: A Class III Cultural Resource Inventory in Williams Co, ND	9215
2005	Turck, T.		Kellogg Tank Removal, McKenzie Co., ND	9046
2005	Wermers, G.		ROW-121 Class III Inventory Report, Mountrail Co., ND	9190
2005	Wermers, G.		ROW-122.a & ROW-122.b Class III Inventory Report, Mountrail Co., ND	9189
2005	Wermers, G.		ROW-156 Class III Inventory Report, Williams Co., ND	9483

Year	First Author	Second Author	Title	Ms #
2005	Wermers, G.		ROW-157 Class III Inventory Report, Williams Co., ND	9482
2005	Wermers, G.		ROW-158 Class III Inventory Report, Williams Co., ND	9484
2005	Wermers, G.		STATEOP-0448 Class III Inventory Report, Mountrail Co., ND	9191
2005	Wermers, G.		STATEOP-0449 Class III Inventory Report, Ward Co., ND	9245
2005	Wermers, G.		STATEOP-0452 Class III Inventory Report, Williams Co., ND	9521
2006	Bleier, A.		Bauer Pit Expansion: A Class III Cultural Resource Inventory in McLean Co., ND	9669
2006	Bleier, A.	W. Bluemle	Four Bears North 2005: Results of the Cultural Resource Inventories in McKenzie Co., ND	9622
2006	Bleier, A.	W. Bluemle	White Shield 2005: Results of the Cultural Resource Inventories in McLean Co., ND	9623
2006	Bluemle, W.	A. Bleier	Four Bears 2005: Results of the Cultural Resource Inventories in McKenzie Co., ND	9618
2006	Burns, C.		The Bombach Survey of Well Pad & Access Road in McKenzie Co., ND: A Class III Cultural Resource Inventory	9886
2006	Burns, C.		The Brown Survey, Mountrail Co.: A Class III Cultural Resource Inventory, DOT Project #: AC-NH-7-002(062)065 & AC-NH-7-002(064)077	9635
2006	Burns, C.		The Jackman Survey, Williams Co.: A Class III Cultural Resource Inventory	9707
2006	Burns, C.		The Price Pit: A Class III Cultural Resource Inventory, Ward Co., ND	9741
2006	Burns, C.		The Ray West Survey, Williams Co.: A Class III Cultural Resource Inventory	9706
2006	Burns, W.		The Folbag Survey, Williams Co.: A Class III Cultural Resource Inventory	9747
2006	Burr, J.		Bakewell Borrow: A Class III Cultural Resource Inventory in Williams Co., ND	9825
2006	Burr, J.		Roen Pit Expansion: A Class III Cultural Resource Inventory in Ward Co., ND	9824
2006	Floodman, M.		Hepper Fence Project, McKenzie Co., ND	9701
2006	Harty, J.	P. Heiner et al.	Enbridge Pipelines (ND) LLC, ND Pipeline Expansion Project: A Class II & III Cultural Resource Inventory and Evaluative Testing of Three Sites, Williams Co., ND	9856
2006	Harty, J.		Folvag 4D-2-2H Well Pad and Access Road: A Class III Cultural Resource Inventory, Williams Co., ND	9867
2006	Harty, J.		Roggenbuck Gravel Pit Expansion: A Class III Cultural Resource Inventory, Mountrail Co., ND	9729
2006	Heiner, P.		Roughrider Wind Farm Energy Project: A Class III Cultural Resource Inventory, Mountrail Co., ND	10116
2006	Hiemstra, D.		Community Transportation Enhancement Grant Program: A Class III Cultural Resource Inventory in Burleigh, Grand Forks, Ward & Williams Co., ND	9894
2006	Hiemstra, D.		Rice Lake Lagoon: A Cultural Resource Inventory of a Proposed Lagoon, Access Road & Two Borrow Areas in Ward Co., ND	9606
2006	Hiemstra, D.	W. Bluemle	Twin Buttes 2005: A Class III Cultural Resource Inventory in Dunn Co., ND	9619
2006	Kinney, W.		Three Proposed Borrow Pits Near Max, ND for NDDOT Project Number SNH-4-083(067)159. A Class III Cultural Resource Report	9718
2006	Klinner, D.		Bear Den Federal 4-30H Well Pad: A Class III Cultural Resource Inventory, McKenzie Co., ND	9852
2006	Klinner, D.		Charlson Field Block: A Class III Cultural Resource Inventory, McKenzie Co., ND	9923

Year	First Author	Second Author	Title	Ms #
2006	Klinner, D.	J. Morrison	Enbridge Pipelines (ND) LLC, Phase 4 Pipeline Expansion Project Pumping Stations: A Class III Cultural Resource Inventory, Grand Forks, McHenry, Mountrail, & Ramsey Counties, ND	9855
2006	Klinner, D.		Enderud 1-17R Pipeline Monitoring Project, McKenzie Co., ND	9574
2006	Klinner, D.		Reservation Telephone Coop. Cable Improvements: A Class II Cultural Resource Inventory, McKenzie Co., ND	9613
2006	Klinner, D.		Steven M. Jenson Borrow Area: A Class III Cultural Resource Inventory, Mountrail Co., ND	9544
2006	Morrison, J.	J. Harty	Black Rock Resources: A Class III Cultural Resource Inventory, McKenzie Co., ND	9832
2006	Pezzoni, J.	M. Eades	Aberdeen Area Indian Health Service Historic Resources Survey Project Report: Abridged Version for ND State Historic Preservation Office, Mountrail, Benson, Sioux, Rolette Co.	9914
2006	Rom, L.		Cultural Resources Inventory & Documentation for Northwest Communication Cooperative's Ray Guyed Communication Tower, Williams Co., ND T156N, R96W, Sec 14	9790
2006	Stine, E.		Four Bears North Segment: A Class III Cultural Resources Inventory of Six Plus Miles in McKenzie Co, ND	9712
2006	Stine, E.		Living Snow Fence Projects: A Class III Cultural Resource Inventory in Adams, Benson, Bottineau, Emmons, Griggs, McLean, Mountrail & Stutsman Counties, ND	9888
2006	Stine, E.		Twin Buttes South Segment Intake: Addendum to Twin Buttes Intake Expansion: A Class III Cultural Resource Inventory in Mercer Co., ND	9713
2006	Stine, E.		White Shield Intake Replacement: A Class III Cultural Resource Inventory in McLean Co., ND	9714
2006	Wermers, G.		STATEOP-0458.a & STATEOP-0458.b Class III Inventory Report, Mountrail & McKenzie Counties, ND	9841
2006	Wermers, G.		STATEOP-0462.a & STATEOP-0462.b Class III Inventory Report, McLean Co., ND	9911
2007	Burns, C.		Petro Hunt USA #12B-2-1H and USA #1D-4-1H Well Pads and Access Road: A Class III Cultural Resource Inventory, McKenzie Co., ND	10078
2007	Burns, C.		The Rice Lake Borrow Area: A Class III Cultural Resource Inventory, Ward Co., ND	9990
2007	Burns, W.		The Neshem Survey, Mountrail Co.: A Class III Cultural Resource Inventory	9997
2007	Burns, W.		The T. Brown Survey, Mountrail Co.: A Class III Cultural Resource Inventory	10052
2007	Curran, M.		Short Format Cultural Resources Inventory & Documentation for the Verizon Wireless ND01 Custer Mine Alternate #1 Mautz Communication Tower McLean Co., ND T148N, R84W, Sections 3, 10	10074
2007	Curran, M.		Short Format Cultural Resources Inventory for the Verizon Wireless ND01 Ryder Alternate #1A Kronbach Communication Tower, Ward Co., ND	10091
2007	Gilbert, S.		Negative Survey Report: A Class III Cultural Resource Inventory for the Parshall Low Water Boat Ramp at Van Hook Arm, Mountrail Co., ND	10039
2007	Harty, J.		Bottleson Well Pad & Access Road: A Class III Cultural Resource Inventory, Mountrail Co., ND	10145
2007	Harty, J.		Rehak State 31-25H Well Pad & Access Road: A Class III Cultural Resource Inventory, Mountrail Co., ND	10063
2007	Harty, J.		Shobe 24-20 Well Pad & Access Road: A Class III Cultural Resource Inventory, Mountrail Co., ND	10144

Year	First Author	Second Author	Title	Ms #
2007	Harty, J.		Slingshot Federal 1-35H & Huckel Federal 1-2 Well Pads and Access Roads: A Cultural Resource Inventory in Roosevelt Co., MT & Williams Co., ND	10062
2007	Hiemstra, D.		ND01 Garrison Alt 2: A Class III Cultural Resource Survey for a Proposed Cell Phone Tower & Ancillary Facilities in McLean Co., ND	10086
2007	Hiemstra, D.		ND01 Raub Alt: A Class III Cultural Resource Inventory for a Proposed Cell Phone Tower & Ancillary Facilities in McLean Co., ND	10098
2007	Klinner, D.		Shell Creek State 44-16H Well Pad: A Class III Cultural Resource Inventory, Mountrail Co., ND	10120
2007	Metzger, P.	E. Bank	Short Format Cultural Resources Inventory for the Verizon Wireless ND01 Zahl Alternate #1 Floyd Olson Communication Tower, Williams Co., ND	10094
2007	Springer, K.		06-061-077 Spring Development Project Cultural Resources Inventory, Mountrail Co., ND	9943
2007	Springer, K.		07-105-029 Tree Planting Project Cultural Resources Inventory, Williams Co., ND	10047
2007	Springer, K.		The 06-061-048, -051 & -055 Fences & Tank Project, Cultural Resources Inventory, Mountrail Co., ND	9981

Test Excavation Projects

The formal beginnings of test excavation in the GSU are unclear. The first listing of testing work is that undertaken at the Moe site (32MN101). Schneider (1975) could not find evidence of intact Paleo-Indian cultural deposits at this location where Folsom and other Paleo-Indian age artifacts had been collected from the beach of Lake Sakakawea.

The next round of testing work was undertaken at 32DU2, the “Highway 8 site” (Good and Hauff 1977) later renamed the Midipadi Butte site (Lippincott 2007). Excavation of two test units and limited hand probing revealed intact cultural deposits along with the surface-visible remains of at least 15 depression features. A preliminary Plains Woodland cultural affiliation was ascribed to the site based on the recovery of a Besant Side-Notched point and thick cord roughened potsherds. Five years later, more in-depth testing was conducted. As a result of these investigations, Kuehn et al. (1982) renamed the site “Midipadi Butte” more in accord with its probable Hidatsa cultural affiliation (cf. Will and Hecker 1944:116). Cultural materials recovered included predominantly Knife River phase ceramics along with various chipped and ground stone tools, and metal and glass trade materials of Euro-American origin. Unfortunately, deep tests were not dug to bedrock to prospect for earlier Plains Archaic and Plains Woodland components. Incidentally, Midipadi Butte may have been the scene of some of the earliest testing work conducted in the GSU. Kuehn et al. (1982:11, citing Metcalf 1963:28-29) allude to vague descriptions of prior testing by SIRBS researchers.

In 1979 and 1980, there was testing at the Mondrian Tree site (32MZ58) in an alluvial fan-Missouri River terrace setting near the Missouri-Yellowstone confluence along the proposed route of the Northern Border pipeline. Roberson (1980) reported shallowly buried cultural deposits of prehistoric and historic age.

However, subsequent testing and major excavations revealed a complex, deeply stratified site containing Plains Archaic, Late Plains Woodland/Plains Village, and Euro-American components (see Major Excavation Projects section below). Testing was also undertaken at five additional sites along the route at the Northern Border pipeline in the GSU (Root 1983k, m, p, r, u).

Preliminary cultural resource inventories along the Southwest Water Pipeline project were conducted for the State Water Commission and the Bureau of Reclamation. A number of sites were recorded along the segment of the pipeline right-of-way falling within the GSU. Testing was carried out at several of these including 32ME788. Artz (1986:63) suggests the site represents low-density cultural deposits associated with ephemeral camps. The most significant site tested along this pipeline route was the Boeckel-Renner site (32ME799) situated high atop the divide between the Missouri and Knife River basins (Artz 1989b).

Site 32ME254 is situated on grassy uplands in the GSU and the Knife River Study Unit and was tested in 1990. Five clusters of features cover the site. The clusters consist of 77 stone circles, one stone arc, seven cairns, and one petroform (Späth and Christensen 1991). Testing within and outside the features included auger probes and excavation of 10 formal test units. The site contains at least two components, Paleo-Indian and Besant, as represented by diagnostic chipped stone tools (*ibid.*).

Boughton and Peterson (1994) report on survey and testing in the North Mine Extension Area for The Coteau Properties Company. Sixty-one prehistoric sites were investigated, including: two lithic scatters, 31 stone circle sites, 13 stone circle/cairn sites, 14 cairn sites, and one stone circle/cairn/alignment site (*ibid.*:Table 2). Testing consisted of 115 shovel probes and 36 test units. Twenty-three test units were within stone circles and 13 were within cairns. Fifteen sites were recommended eligible for the NRHP. Archeologists suggest that many of the sites recommended as not eligible might be viewed together as contributing elements to a larger district (*ibid.*).

Eleven archeological sites along a proposed pipeline corridor were tested for NRHP eligibility in 1998 (Olson and Newberry 1999). Project archeologists evaluated site eligibility based on 1) the presence of cultural deposits, 2) retention of site integrity, and 3) significant amounts of cultural material at a site (*ibid.*:1). Four of the sites are within the GSU. Site 32ME1444, a stone circle and cairn site, is located on an upland overlooking a drainage with natural springs to the west. Investigators suggest 32ME1444 is related to a turtle effigy site (32ME1270) 200 m southwest (*ibid.*:3). In addition to stone features, a lithic scatter covering approximately 1,000 m² is present (*ibid.*:9). The site has been recommended eligible for the NRHP based on its potential to expand archeological knowledge of KRF reduction activities in and out of stone circles. Site 32WI132 also was tested. It is on upland which slopes east to a south-southeast trending drainage north of the Missouri River trench. Site testing and evaluation confirmed the presence of eight stone circles and an abundance of lithic materials. The lithic assemblage

included scrapers, retouched shatter, a preform, and debitage. The majority of the artifacts were grey porcellanite but red porcellanite, KRF, and Swan River chert also were present (ibid.:43). Two hearths were recorded at the site. Feature 4a contained debitage, calcined bone, a biface fragment, and charcoal. A charcoal sample was radiocarbon dated to the Middle Plains Woodland (ibid.:45). The site was recommended eligible for listing on the NRHP. The other two sites (32MZ791 and 32WI354) tested within the GSU were recommended not eligible for the NRHP due to the paucity of cultural material.

Testing was undertaken at It's a Beautiful Day site (32MN514) in 1998. The site, located on a ridge overlooking the White Earth River, consists of 27 stone circles and two cairns (Morrison 1999a). Seventy-two shovel test probes and five test units were excavated. A total of 141 artifacts were recovered, 60% from Rock Cairn 1. Lithic raw material types included quartzite, TRSS, chert, chalcedony, KRF, granite, and porcellanite (ibid.:15). A biface, scrapers, cores, and tested raw material, bone fragments, and a hearth with fire-cracked rock and burnt earth were recorded. A Prairie Side-Notched projectile point was found in the waterscreen sample of Rock Cairn 1. Based on artifactual evidence, the site has been dated to 1380-600 BP (ibid.:16).

In 2000 a large test excavation project was undertaken to examine 179 previously unevaluated sites within three mining expansion areas in central Mercer County (Boughton et al. 2001). Testing involved the excavation of 403m² from test units, shovel tests, shove probes, and soil cores (ibid.). Thirty-five prehistoric sites were recommended eligible for listing on the NRHP. Further, archeologists suggest 13 sites have the potential to expound on research questions presented in the State Plan, particularly those concerning stone circles and prehistoric hunting strategies.

The mine expansion areas are in the GSU and the Knife River Study Unit. Within the GSU, the sites include 10 stone circle sites, four cairn sites, three stone circle/cairn sites, one stone circle/cairn/alignment site, and three lithic scatters (ibid.). Of the 21 sites in the GSU, two were recommended eligible for listing on the NRHP. Site 32ME1463, a lithic scatter, is located north of Lake Sakakawea and east of a major drainage. Archeologists noted that the lithic assemblage reveals the site's potential to contain diagnostic artifacts and/or datable deposits (ibid.:10.176). Site 32ME1528, a stone circle site, is located on a ridge above Beaver Creek Bay. A variety of artifacts were recovered, including: the basal portion of a KRF Plains Side-Notched projectile point, a KRF preform, bone fragments, and debitage (ibid.:10.262). The site was recommended as eligible for listing on the NRHP because of cultural/temporal context and the possibility for further research.

Sites 32MZ1474 and 32MZ1475 were tested by the US Forest Service (Floodman 2001). Site 32MZ1474 consists of five stone circles located northwest of a meander in Clear Creek. Site 32MZ1475, a cultural material scatter, is across the creek to the southeast of 32MZ1474. Animal bone comprise the majority of

cultural materials from the sites, however lithic artifacts and hearth features also were recorded. Interiors of stone circles at 32MZ1474 contained a fair amount of bone, leading Floodman (*ibid.*) to suggest bison bone processing activities occurred within the stone circles. Three side-notched arrow points, the total of the diagnostic artifacts, were recovered from Stone Circle #2 at 32MZ1474 (*ibid.*:20). The points' style indicates an occupation dating to the Old Women's complex of the Late Plains Woodland or the late Plains Village. Stone Circle #5 contained one modified bone digging tool (*ibid.*:26) and a hearth radiocarbon dated to AD 1720-1950 (*ibid.*:70). The cultural zone at 32MZ1474 extends to a depth of approximately 10 cm, indicating the presence of one component. Across the creek, 32MZ1475 contains a hearth eroding out of a cutbank. Tests on a charcoal sample from the hearth resulted in a date that corresponds to the Old Women's complex, late Plains Village, or the Equestrian Nomadic (*ibid.*:59). The amount of fractured bison bone suggests this may have been a location of bison bone processing and grease manufacture (*ibid.*:38). In general, the faunal analysis suggests that the site was occupied from late autumn through early spring. This assumption is based on the large amount of fetal bone fragments and the large size of the hearth (*ibid.*:38). Seasonality of both sites is further supported by the arrangement of the stone circles with an apparent concern for wind patterns, and evidence of activities within the stone circles (*ibid.*:72). A single cultural component is present at each site. Floodman (*ibid.*) notes that it is not common to test single component sites within the Little Missouri National Grasslands. The two sites may be related remnants of one occupation (*ibid.*:72).

Twenty-one archeological sites were evaluated along US Highway 2 in Mountrail and Williams counties for the North Dakota Department of Transportation in 2002. Six sites, all in Mountrail County, retain good integrity and have been recommended as eligible for listing on the NRHP. All six sites are located within the White Earth River valley, south of US Highway 2 (Wiltberger 2002). Five sites (32MN110, 32MN116, 32MN119, 32MN522, 32MN533) contain stone features with associated artifacts. Commonalities of the stone feature sites include small size and artifact assemblages comprising lithics, floral material, and fauna specimens. Hearths were uncovered at sites 32MN110 and 32MN119 dating to the Plains Equestrian Nomadic period and the Late Plains Archaic/Early Plains Woodland transition, respectively (*ibid.*:6-8,6-12). Additionally, a Plains Woodland projectile point base was recovered from 32MN522 (*ibid.*:6-13). Site 32MN525, located in the floodplain of the White Earth River, has two components. The surface component consists of a lithic scatter, age unknown. The second component is located in buried alluvium atop a paleosol. Further, the top of a cairn was uncovered approximately 15 cm below surface (*ibid.*:6-13). Charcoal sampled from the base of the cairn dates to the Plains Woodland period (*ibid.*:6-14). Investigators propose these six sites could answer questions concerning prehistoric/protohistoric subsistence patterns and lithic technology.

The Beacon Island Agate Basin site (32MN234) is one of the most significant sites recorded within the GSU to date (Ahler 2003c). The site is located on Beacon Island in Lake Sakakawea (Garrison Reservoir), presently

managed by the US Army Corps of Engineers. Before construction of the Garrison Dam and Garrison Reservoir in 1967, the site was situated on a terrace overlooking the Missouri River valley to the southwest, the Little Knife River to the east, and the confluence of these rivers to the southeast (ibid.:4). In recent years more of the island has been exposed due to low lake levels. Unfortunately fluctuating lake levels have caused rapid erosion, endangering the site. Realizing the imminent fate of the site, archeologists have documented, surveyed, and tested in four areas (ibid.). Remote sensing techniques also have been utilized (Spurr et al. 2007). The Beacon Island Agate Basin site has been determined eligible for nomination to the NRHP by the Keeper of the Register.

Testing of the site indicates that intact deposits are present. In particular, Area A, located in the north-central portion of the island, includes a bone bed of *Bison antiquus* with associated hearths and lithic assemblage with diagnostic materials. In addition to numerous Agate Basin projectile points, Clovis and Folsom points have been recovered from the site (Ahler 2003c). Absolute dating techniques also have been used. Four samples of identifiable bone and charred wood have been radiocarbon dated. The mean date of the samples is 10,331±44 radiocarbon years BP (ibid.:87). Ahler (ibid.:126) writes, “[T]his very precise date is one of the most significant and immediate contributions of the current project to the understanding of early human adaptations on the Northern Plains. There is no question that the Agate Basin component in Area A deserves a great deal of research and attention.” *Bison antiquus* were surrounded, killed, and processed at the site (ibid.). The lithic assemblage indicates tool production and maintenance also were local prehistoric activities.

Table 6.5: Test Excavation Projects in the Garrison Study Unit, 5-Sept-2007.

Year	First Author	Second Author	Title	Ms #
1977	Good, K.	J. Hauff	Archaeological Test Excavation of the Highway 8 Site, 32DU2, Garrison Reservoir, ND	10
1979	Good, K.	J. Dahlberg	Archaeological Excavations at the Garrison Tipi Ring Site, 32ML117, McLean Co., ND: An Archaeological Salvage Project	2514
1980	Rippeteau, B.		Shell Packineau 12-7 Limited Shovel Testing for Well Pad Area, Addendum Report, Dunn Co., ND	2335
1980	Rippeteau, B.		Texaco CMNU A303X Addendum, A Report on Limited Testing, McKenzie Co., ND	2431
1980	Roberson, W.		Archaeological Test Excavations at the Mondrian Tree Site (32MZ58) McKenzie Co., ND	1475
1981	Peterson, J.		An Archeological Test Excavation of a Stone Circle in the Path of US Highway 83 Construction., McLean Co., ND	2478
1981	Roberson, W.		Northern Border Pipeline Historic Sites Testing Data, Morton, Dunn, McKenzie & Williams Counties, ND	2588
1981	Robeson, W.	C. Parish	Northern Border Pipeline, ND: Historic Sites Testing and Evaluation, Morton, Dunn, McKenzie & Williams Counties	2566
1982	Schreiner, M.		Archeological Test Excavations-Sites 32ME503 and 32ME506--Mercer Co., Highway 1806	3171
1983	Bass, S.		Testing Stone Circle Site 32MN140	2861
1983	Root, M.	M. Gregg	Archeology of the Northern Border Pipeline, ND: Vol. 3, Test Excavations, McIntosh, Emmons, Morton, Stark, Mercer, Dunn, McKenzie, & Williams Co., ND	3456

Year	First Author	Second Author	Title	Ms #
1984	Floodman, M.		Texaco Inc. Silurian 26-1 Archaeological Testing at Site 32MZ173 Preliminary Report	3438
1984	Kuehn, D.	J. Hodny et al.	National Register Evaluations of 12 Archaeological Sites & 8 Historical Sites in the Coteau Mine Areas D & J, Mercer Co., ND	3548
1985	Artz, J.		An Interim Report on Archeological Investigations at 32ME788, South Shore, Lake Sakakawea.	3571
1985	Floodman, M.		Archaeological Investigations at 32MZ173 & 32MZ233 in the Charlson Oil Field, Northeastern McKenzie Co., ND	3673
1985	Kuehn, D.		A Report on Archaeological Evaluative Testing at Site 32ME812, Twin Buttes Road Improvement Project, Fort Berthold Indian Reservation, ND	3871
1986	Artz, J.	K. Schweigert	Southwest Pipeline Archeology: Testing & Evaluation of 15 Sites in Mercer and Dunn Counties, ND (Segments A, B-1, & B-2), Contribution No. 229	3898
1986	Borchert, J.		Test Excavations at 32ME812 & 32ME813, Fort Berthold Reservation, Mercer Co., ND	4099
1986	Christensen, R.	D. Kuehn	The Results of Archaeological Construction Monitoring on Twin Buttes Road, & Salvage Operations Conducted on the Harrier's Three Site (32ME841)	4154
1986	Floodman, M.		E.P. Operating Company Fort Berthold Tribes 1-13: Final Report of Archaeological Testing at 32MZ798, McKenzie Co., ND	3928
1986	Floodman, M.		Final Report of the Archaeological Testing of a Portion of Site 32MZ721 at the Texaco Inc. Silurian Unit #40-1 Well Location, McKenzie Co., ND	3925
1986	Floodman, M.		Final Report: Test Excavations at Site 32MZ748 on the Fort Berthold Indian Reservation, Eastern McKenzie Co., ND	3930
1986	Floodman, M.		Preliminary Report Texaco, Inc., Silurian Unit 40-1: 32MZ721 Testing McKenzie Co., ND	1849
1986	Floodman, M.		Preliminary Testing of Stone Circle Site 32MZ727 for the Texaco Inc., Silurian Unit #45-1 Well Location, Northeastern McKenzie Co., ND	3927
1986	Gnabasik, V.		Testing at Site 32WI50 Within the Proposed Campground Renovation Area at Lewis & Clark State Park, Garrison Dam/Lake Sakakawea Project, Williams Co., ND	4182
1987	Persinger, R.	K. Schweigert	Archaeological Testing of Site 32WI40 & Historical Evaluation of Sites 32WI203 & 32WI205 Near Trenton, Williams Co., ND	4423
1987	Shaw, T.	D. Kuehn	Results of Testing at 32MZ839, an Historic Site on USFS Land near Lake Sakakawea	4314
1988	Haury, C.	P. Picha et al.	Evaluation of Four Cultural Resources on the Southwest Pipeline, Dunn, Mercer, and Stark Co., ND	4711
1988	Winham, R.	E. Lueck et al.	Archeological Testing of Sites 32MN228 & 32MN331, White Earth Bay Area of Lake Sakakawea, Mountrail Co., ND	4608
1989	Banks, K.		Monitoring of Geotechnical Drilling at Site 32DU32/32ME617 Twin Buttes Water Treatment Facility & a Reassessment of 32MZ605 Four Bears Water Treatment Facility	4870
1989	Fox, R.		An Evaluation of Testing at 32WI309, the Site of Koch Exploration's Proposed Berger 23-14 Well Pad	4709
1989	Newberry, G.	G. Tucker Jr.	Results of Evaluative Testing At Archaeological Sites 32MZ936 and 32DU909 Along the Figure 4 Road, Fort Berthold Indian Reservation, McKenzie and Dunn Counties, ND	5053
1989	Sanders, P.	K. Kempton	Archeological Evaluation of Fifteen Sites Located Along Lake Sakakawea, Dunn Co., ND	4924
1990	Persinger, R.	R. Christensen	Archaeological Test Excavation at Skunk Creek Bay, Dunn Co., ND	5059
1990	Wermers, G.	J. Borchert	Evaluation of Four Sites Ross Road, Mountrail Co., ND	4800
1991	Lahren, L.		Evensvold: A Prehistoric Stone Circle & Cairn Site in Mountrail Co., ND (32MN448 & 32MN449)	5563

Year	First Author	Second Author	Title	Ms #
1991	Sanders, P.	T. Larson	The 1989 Archaeological Investigations at 32ME797, 32ME799 & 32ME847 Along the Southwest Pipeline Project, Mercer Co., ND	5463
1991	Späth, C.	R. Christensen	32ME254, Evaluation & Intensive Testing	5798
1991	Späth, C.		The Bees Nest Ring Site (32ME175): Inventory of 80 Acres T145N R88W Section 2 Mercer Co. & Documentation & Limited Testing of 32ME175	5799
1992	Christensen, R.		ND Highway 23 Archaeology: Evaluative Testing at 32MN395	5964
1992	Christensen, R.		ND Highway 23 Archaeology: Evaluative Testing at 32MZ1089	5965
1992	Olson, B.		Amerada Hess Corporation Natural Gas Pipeline Project Evaluative Testing, Monitored Grading & Emergency Salvage at Site 32MZ679 McKenzie Co., ND	6613
1992	Olson, B.		Evaluative Testing at Site 32MZ679 For the Amerada Hess Pipeline McKenzie Co., ND	5746
1992	Olson, B.		Evaluative Testing at Site 32WI139 For the Amerada Hess Pipeline Williams Co., ND	5747
1993	Peterson, L.		Evaluative Testing of Site 32ME1299 for Coteau Properties, Beulah, ND	6193
1994	Boughton, J.	L. Peterson	Testing & Evaluation of Prehistoric Sites Within the North Mine Extension Area, Mercer Co., ND	6347
1994	Stine, E.	A. Kulevsky	Garrison Wets, McLean Co., ND: Test Excavations of Twelve Sites	6395
1995	Christensen, R.		32MN508 Evaluation	6616
1995	Klinner, D.		Results of the Evaluative Testing of Site 32MN509 Mountrail Co., ND	6407
1995	Kulevsky, A.	E. Stine	Limited Testing at 32DU80 Dunn Co., ND	6497
1995	Larson, T.	R. Hilman et al.	Results of Test Excavations at 32ME588, Mercer Co., ND	6638
1996	Molyneaux, B.	N. Hodgson et al.	National Register Site Testing at Sites 32ML229, 32ML237, 32ML239, & 32ML243 at the National Guard Recreation Area, Lake Sakakawea, McLean Co., ND	6831
1996	Peterson, L.		Additional Testing at Six Prehistoric Sites Located Within the North Mine Extension Area in Mercer Co., ND	6652
1996	Porter, D.	D. Klinner	Results of the Evaluative Testing of a Portion of Site 32MN512, Mountrail Co., ND	6795
1996	Späth, C.		Skunk Creek Bay Access Road Improvement, Evaluative Testing of Five Sites on Tribal & Private Lands, Dunn Co., ND	9508
1999	Good, K.		Evaluative Testing 32ME544	7418
1999	Morrison, J.		It's a Beautiful Day: Limited Testing of 32MN514, Mountrail Co, ND	7359
1999	Olson, B.	G. Newberry	Final Report of Evaluative Testing of Sites Impacted by the Dakota Gasification Company CO ₂ Pipeline: Mercer, Dunn, McKenzie, & Williams Counties, ND	7299
2000	Newberry, G.		Evaluative Testing at Site 32MZ1444 & an Isolate Location, McKenzie Co., ND	7559
2000	Olson, B.		Dakota Gasification CO ₂ Pipeline Project: Evaluative Testing of Site 32WI305	7529
2001	Boughton, J.	B. Fandrich et al.	Coteau Properties Company: Testing & Criterion D Evaluation of Prehistoric Sites Located in Permit Extension Areas D & H & the West Permit Area, Mercer Co., ND	8531
2001	Floodman, M.		The Clear Creek Project: Test Excavation at Archeological Sites 32MZ1474 & 32MZ1475, McKenzie Co., ND	8117
2002	Wiltberger, C.		Archaeological Evaluations of 26 Sites Along US Highway 2 in Mountrail and Williams Counties, ND, Vols. 1 & 2 & Architectural History Evaluations for Sites 32WD20 & 32WI477 in Ward & Williams Counties, ND, Vol. 3	8388
2003	Ahler, S.		Resurvey and Test Excavations at Beacon Island in Lake Sakakawea, Mountrail Co., ND	8697
2005	Jennings, S.	J. Lee	Evaluative Testing of 32WD1548, Ward Co., ND	9166
2005	Morrison, J.		Little Knife River Overlook Site: Evaluative Testing of 32MN693 in Mountrail Co., ND	9267

Year	First Author	Second Author	Title	Ms #
2006	Harty, J.	J. Morrison	Enbridge Pipelines (ND) LLC, ND Pipeline Expansion Project: Evaluative Testing of 32WI76 & 32WI960 Williams Co., ND	9940

NRHP and NDSHSR

Writing Rock (32DV4) is listed on both the National Register of Historic Places (NRHP) and the State Registry (NDSHSR). This site was described by Will and Hecker (1944). It includes two large granite boulders covered with pecked glyphs plus three or more associated stone circle features (SHSND, site form). Joyes (1978) describes the thunderbird motif glyph on the rock. The Evans site (cf. Schneider and Kinney 1978) is also listed on the National Register. The Beacon Island Agate Basin site (32MN234) and 32DU2 have had formal determinations of eligibility for the NRHP by the Keeper of the Register.

The current list of archeological sites in North Dakota listed in the NRHP is available on the National Park Service internet website. The following internet links are useful (NPS 2008a, b):

General information and links to specific information: <http://www.nps.gov/nr/>
National Register Information System: <http://www.nr.nps.gov/>

Major Excavation Projects

Major excavation work can be divided into two periods of investigation: (1) SIRBS (and cooperating institutions), and (2) post-SIRBS. It was known that the construction of Garrison Dam was going to affect a number of prominent earthlodge villages and other historic properties. Major salvage excavations were undertaken at a number of these sites by the SIRBS. Following Lehmer (1971:Appendix 1), these are listed in the major excavation table below. Included were Star Village (Metcalf 1963), Rock Village (Hartle 1960; Lehmer et al. 1978), Night Walker's Butte (Lehmer et al. 1978), Grandmother's Lodge (Woolworth 1956), and Like-A-Fishhook Village (Smith 1972). With the exception of Grandmother's Lodge, a prehistoric Plains Village site, all of the others are post-contact earthlodge villages. Salvage excavations were also carried out at two historic sites: Kipp's post, a fur trade post (Woolworth and Wood 1960, 1962), and Fort Stevenson, a military post (Smith 1960a).

A period of nearly 25 years elapsed before the second round of major excavation commenced in the GSU. In 1979, 32ME117, a stone circle site was excavated (Good and Dahlberg 1979). The following year, major excavations were carried out at the multiple component Mondrian Tree site (Toom and Gregg 1983). Some 250 m³ of site matrix was processed by controlled hand excavation. Since 1991 reports of major excavation projects within the GSU have occurred at a fairly consistent rate (see Table 6.6).

Downriver from the Mondrian Tree site (32MZ58) is 32MN395. Excavation at the latter revealed at least 12 cultural levels dating from the Early Plains Archaic through the Late Woodland period (Larson and Penny 1994, 1995). Investigators note, "The upper third of these deposits may be one of the best preserved examples of stratified Woodland occupation in the Garrison Study Unit...the presence of multiple Woodland components at the same site offers a unique opportunity to trace the development of the Plain [*sic*] Woodland through time and possibly link these changes to fluctuations in the natural environment, technological changes, the presence of new cultural groups in the area, and pressures brought on by increases in population" (Larson and Penny 1994:111). Dates and paleoenvironmental data for the site result from the recovery of diagnostic materials, radiocarbon samples, geological studies, pollen analysis, phytolith analysis, and floral and faunal analyses (Larson and Penny 1994, 1995).

Results of investigation at the Twin Buttes site (32DU32/32ME617) reveal the site was occupied at least twice. Absolute and relative techniques date the site to the Besant Phase (radiocarbon dates) and the Protohistoric period (a metal projectile point) (Deaver 1991). Based on the high density of unifaces, investigators suggest that primary site activities were bison processing and hide preparation (*ibid.*:i). Projectile point styles include nine Pelican Lake points, 56 Besant points, and one Samantha point (*ibid.*:110). Awls, graters, bifaces, bone tools, and Besant-type ceramics account for other artifact classes (*ibid.*). Features encountered during excavation include 14 hearths, 11 stone boiling pits, seven toss-out scatters containing fire-cracked rock, 15 bone uprights, four cairns, two buried stone circles, and two or three exposed stone circles (*ibid.*:121-125). Investigators conclude that the site may have been a base camp related to smaller, outlying campsites in the area.

During the field seasons of 1995 and 1996, excavations were conducted in the Little Missouri National Grasslands as part of the US Forest Service's *Passport in Time* volunteer program (Floodman et al. 1997). The excavations occurred at the Boots site (32MZ732) located in the Missouri River breaks. Site occupation extends from the Early Plains Archaic through AD 1943. The various archeological materials recovered include a copper awl, Besant/Sonata complex and Plains Village ceramics, 30 projectile points, bifaces, scrapers, retouched flake tools, utilized flakes, cores, hammerstones, a mano, debitage, and faunal remains. The copper awl, the sole copper artifact documented and dated within the Little Missouri National Grasslands, dates to 770-375 BC (*ibid.*:119). Moreover, investigators note that "The dated copper awl from the Boots site is a rare occurrence for the region and a valuable contribution to the knowledge of the use and distribution of this rare resource type in western North Dakota" (*ibid.*). Diagnostic projectile points include a Duncan point base, an Archaic stemmed dart point, a Pelican Lake point, and a Besant dart point (*ibid.*:78). The site has been evaluated as eligible for listing on the NRHP under Criterion D.

Mitigation was conducted at two sites along an access road to Lake Sakakawea (Graham et al. 1998). Sites 32DU396 and 32DU1154 were located on

ridgetops overlooking the lake to the north. Both sites are thought to have been seasonal hunter-gatherer camps indicated by bison bone and macrofloral remains. The lithic assemblages suggest that tool production and maintenance also were important activities. A radiocarbon date of 6100 ± 70 RYBP (Early Plains Archaic) was obtained for 32DU396 (ibid.:131). Additionally, projectile points recovered at that site are Late Archaic forms. Though 32DU1154 was deflated, cultural materials indicate that the site had a longer occupational history than 32DU396. Chipped stone tools recovered at the site included a Goshen spearpoint fragment, two Folsom point fragments, and an Avonlea point fragment (ibid.:132).

Since the early 1990s, a series of major excavation projects have been undertaken by Ethnoscience, Inc. to mitigate the effects of expanding coal strip mining operations by Coteau Properties Company in central Mercer County. The sites are within the Beulah Trench which is characterized by rolling grasslands with intermittent ridges and drainages. Stone feature and lithic scatters are common site types in the area. Primary research questions posed by investigators have focused on chronology, settlement and site function, diet and subsistence, lithic technology, and paleoenvironmental conditions (Boughton et al. 1994; Winzler et al. 1998). A brief summary of the projects follows.

Mitigative measures were undertaken in 1993 in the North Mine Extension Area. Within the GSU, 12 archeological sites were destroyed. The sites were located at the convergence of several ecozones. Eighteen stone circles, one stone circle with an associated cairn, and two cairns were investigated (Boughton et al. 1996:7.1). Materials recovered included over 10,000 pieces of debitage, projectile points, patterned and unpatterned tools, cores, bone fragments, ceramics, hearths, an ash lens, a charcoal concentration, fire-cracked rock, and a possible cache pit (ibid.). Traditional excavation techniques and laboratory procedures were supplemented by analyses of ^{14}C samples, pollen, flotation, obsidian, and blood residue (ibid.). Though sampling bias is a possibility, investigators drew several conclusions regarding the research topics. First, five cultural components have been identified across the North Mine Extension Area, including the "Archaic Besant" (AD330-890), the Besant complex, the Avonlea complex, the Late Prehistoric (AD 960-1390), and the Late Prehistoric/Plains Village (ibid.:7.2). Second, stone circle size and placement suggest length of stay and seasonality of occupations (ibid.:7.3). Third, subsistence strategies consisted of the exploitation of bison, smaller mammals, birds, and berries (ibid.:7.4).

More mine expansion led to mitigation of 32ME254 in 1997. The 130-acre multi-component site consisted of 81 stone circles and seven cairns located in glaciated upland plains (Winzler et al. 1998:5.1). Eight stone circles, three cairns, and one possible petroform were excavated. Investigators identified five components at the site: Oxbow, McKean, Pelican Lake, Besant, and Plains Village or Late Prehistoric. Chronological indicators included two radiocarbon samples, two oxidizable carbon ratio (OCR) samples, and diagnostic artifacts. The radiocarbon dates are AD 695-995 for Feature 58A and AD 130-395 for Feature

87A (ibid.:6.1). The OCR results are AD 1529 (without deflation) and AD 525 (with deflation) for Feature 58A and AD 1726 (without deflation) and AD 1339 (with deflation) for Feature 87A (ibid.). The investigators note that the results of the two techniques do not correlate and conclude that “the assignment of dates based solely on the OCR method may prove unreliable” (ibid.). Identifiable projectile point styles from the site include Oxbow (n=3), McKean (n=3), Duncan (n=1), Hanna (n=1), Pelican Lake (n=1), Besant (n=10), and Late Prehistoric (n=5) (ibid.). The conclusions for this project reiterate those of Boughton et al. (1994; summarized above).

In 1998, mitigation was conducted at 32ME797 and 32ME1456 in response to impacts of expansion in the North Mine Extension Area (Walker-Kuntz and Boughton 1999). A relatively small amount of cultural material was recovered from 32ME797. In addition to the stone circle and cairn present at the site, lithic debitage indicates reduction activities occurred here (ibid.:7.3). One Pelican Lake projectile point provided cultural/temporal affiliation. No other conclusions were drawn about 32ME797. Similarly, 32ME1456 consisted of one stone circle and has been dated to the Besant complex based on the recovery of a Besant-type projectile point (ibid.:8.1). Blood residue analysis of stone tools indicates that bison and deer were part of the occupants’ subsistence strategy (ibid.). Investigators suggest that the site functioned as an outlier to a larger base camp.

Data recovery was conducted at nine sites that were to be destroyed by proposed expansion in the Freedom Mine Area 2 North, Mercer County (Bales et al. 2006). Seven stone feature sites, one cairn, and one lithic scatter were excavated. Radiocarbon dating of 11 samples from across the sites indicates two Middle Plains Archaic occupations and nine Plains Woodland occupations (ibid.:6.4). This finding is consistent with other stone circle sites in the Beulah Trench (ibid.:6.6). Diagnostic artifacts were recovered from five sites. The styles include two McKean points, four Besant points, and nine Plains/Prairie Side-Notched points (ibid.). Ceramics recovered during excavation were typed to Plains Woodland and Plains Village. Several post-excavation observations made by investigators are worth noting. First, within the project area smaller stone circles tended to contain charcoal features and larger stone circles tended to contain diagnostic artifacts (ibid.:6.8). Second, during previous testing faunal remains were uncovered in two stone circles. Upon further investigation, neither of the stone circles contained diagnostic artifacts. The features were carbon dated using bone. Investigators suggest that the virtual absence of lithic material at a stone feature likely indicates that no tools will be recovered (ibid.:6.11). Third, based on a small sample size, it appears that there is not a correlation between rock density of a stone circle and the presence of centrally located hearths (ibid.). That is, the hearths located within the project area were excavated from stone circles with low rock densities. Finally, as stated after previous testing, the features that yielded the least amount of archeological information were those containing faunal remains (ibid.:6.13).

Table 6.6: Major Excavation Projects in the Garrison Study Unit, 5-Sept-2007.

Year	First Author	Second Author	Title	Ms #
n.d.	Kleinsasser, G.		Report on the Excavations at the Fort Berthold Indian Village Site, McLean Co., ND	21
1950	Woolworth, A.		Grandmother's Lodge (32ME59) Field Notes	28
1951	Hartle, D.		Excavation Field Notes, Rock Village Site (32ME15)	34
1951	Hartle, D.		Field Notes from Survey Files: Star Village (32ME16)	37
1951	Malouf, C.		Archaeological Studies of Aboriginal Occupation Sites in Northwestern ND, Mercer Co., ND	3745
1951	Smith, G.		Kipp's Post, 32MN1, Field Notes	45
1952	Hartle, D.		Excavation Field Notes, Rock Village Site (32ME15)	35
1952	Smith, G.		Fort Stevenson Field Notes (32ML1)	24
1953	Hartle, D.		The Rock Village Site, Mercer Co., ND	33
1953	Howard, J.		The Like-A-Fishhook Village Site, Old Fort Berthold, McLean Co., ND	19
1954	Smith, G.	A. Woolworth	Excavation of the Site of Fort Berthold I (32ML2), Interim Report	20
1955	Woolworth, A.		The Archeology of Grandmother's Lodge, Site 32ME59	29
1956	Woolworth, A.		The Archeology of Fort Berthold I & Explorations at Like-A-Fishhook Village (32ML2) in 1954	22
1957	Woolworth, A.	W. Wood	The Archeology of 32MN1, Kipp's Post	44
1960	Hartle, D.		Rock Village: An Ethnohistorical Approach to Hidatsa Archaeology, Mercer Co., ND	36
1975	Schneider, F.		The Results of Archaeological Investigations at the Moe Site 32MN101, ND	46
1979	O'Brien, L.		Archaeological Test Excavations at 32WD117 & 32WD119, Ward Co., ND: A Cultural Resource Study in the Path of Proposed US Highway 83	681
1980	Robson, L.		Beulah Bay Burial Shoreline Recovery, July, 1980, Mercer Co., ND	3824
1981	Toom, D.		Archeological Investigations at the Mondrian Tree Site (32MZ58), McKenzie Co., ND: Annual Progress Report, 1980	2565
1982	Borchert, J.	S. Montgomery et al.	The Tollefson Homestead Site (32MZ144), McKenzie Co., ND	2570
1982	Kuehn, D.	C. Falk et al.	Archeological Data Recovery at Midipadi Butte, 32DU2, Dunn Co., ND	2757
1983	Aivazian, B.		Archaeological Excavations at 32MN143, 32MN147, & 32MN150, Mountrail Co., ND	3316
1983	Toom, D.	M. Gregg	Archeology of the Northern Border Pipeline, ND: Vol. 1, Pts. 1-3 Archeology of the Mondrian Tree Site 32MZ58	3454
1985	Gnabasik, V.		Relocation of Remaining Eleven Burials from the Wash Family Cemetery to the Congregational Cemetery, Thompson Funeral Home, Garrison Dam/Lake Sakakawea Project, McLean Co., ND.	4003
1985	Gnabasik, V.		Relocation of Three Burials from the Wash Family Cemetery to the Congregational Cemetery, Thompson Funeral Home, Garrison Dam/Lake Sakakawea Project, McLean Co., ND	4002
1989	Artz, J.	E. Hayden et al.	Southwest Pipeline Archeology: The 1987 Survey and Test Excavation Programs at Prehistoric Sites in Mercer & Dunn Counties, ND (Segments A and B2)	5097
1991	Deaver, K.		Excavations at the Twin Buttes Site 32DU32/32ME617 in West Central ND, Vol. 1 & 2	5565
1992	Olson, B.		The White Owl Site (32DU621): A Late Prehistoric-Protohistoric Campsite and Knife River Flint Procurement Locality On the Fort Berthold Indian Reservation, Dunn Co., ND	5832

Year	First Author	Second Author	Title	Ms #
1992	Tucker, G.	B. Olson	The Figure Four Road Project: Data Recovery at Two Archaeological Sites on the Fort Berthold Indian Reservation, McKenzie & Dunn Counties, ND	5931
1994	Larson, T.	D. Penny	Results of the 1993 Archaeological Investigations at 32MN395, Mountrail Co., ND	6207
1995	Peterson, L.	L. Peterson et al.	The Bees Nest Site, Mercer Co., Mitigation of a Multi-Component Stone Ring Site in Central ND, Vol. 2	6270
1996	Boughton, J.	K. VanderSteen et al.	Data Recovery of 13 Sites Located in the North Mine Extension Area, Mercer Co., ND	6689
1996	Christensen, B.		32WI346 Evaluation Project No. NH-7-002(041)052	6792
1996	Christensen, B.		Archaeological Evaluation Site 32MN508	6753
1997	Floodman, M.	M. Bergstrom et al.	1995-96 Passport in Time: Archeological Investigations at the Boots Site, 32MZ732 McKenzie Co., ND	7109
1998	Graham, C.	L. Cummings et al.	Prehistoric Occupation of the Missouri River Uplands: Excavations at 32DU396 & 32DU1154 Dunn Co., ND	7179
1998	Winzler, S.	J. Boughton et al.	Data Recovery at 32ME254 Mercer Co., ND	7180
1999	Walker-Kuntz, S.	J. Boughton	Data Recovery at 32ME797 & 32ME1456 Mercer Co, ND	7304
2000	Morrison, J.		Road to Greasy Grass: Data Recovery Excavations at 32WI349, Williams Co., ND	7596
2001	Bales, J.	C. Jackson, et al.	Garrison Local Training Area 1999 Archeological Test Excavations, McLean Co., ND	8921
2001	Olson, B.		The Lorenz and Buffalo Hill Sites: Mitigation of Two Stone Circle Sites Along the Dakota Gasification CO ₂ Pipeline, Dunn & Mercer Counties, ND	8030
2003	Morrison, J.		Little Beaver Bay Recreation Area: Impact Analysis at 32WI15, Williams Co., ND	8418
2005	Jackson, M.	D. Toom et al.	Site 32MZ1353 Archeological Test Excavations, McKenzie Ranger District, Little Missouri National Grasslands, McKenzie Co., ND	9467
2006	Bales, J.	J. Boughton et al.	Coteau Properties: Data Recovery at Nine Sites in Mine Area 2 North, Mercer Co., ND	9598
2006	Lee, J.		Data Recovery Results of 32MN525, Mountrail Co., ND	9691

Other Work

Most of the other works relate to Lake Sakakawea inundation and shoreline erosion after the lake was filled. Exceptions to the work necessitated by site destruction include Joyes' (1978) thunderbird glyph study and research conducted by the SHSND and the Mandan-Hidatsa-Arikara Nation at Grandmother's Second Lodge (Reed and Grinnell 2004).

Table 6.7: Other Work in the Garrison Study Unit, 5-Sept-2007.

Year	First Author	Second Author	Title	Ms #
n.d.	Hecker, T.		List of Known Earth Lodge Village Sites Above the Grand River	94
n.d.	Hecker, T.		Survey of Indian Campsites in T160N, R95W - T160N, R96W – T161N, R95W - T161N, R96W, all West of the 5th PM in Divide Co., ND	7574
n.d.	Hecker, T.		Survey of Indian Trails and Campsites in Divide Co., ND Townships 160, 161, 162, 163 & Fractional Township 164 North Ranges 95, 96, 97, 98, 99, 100, 101, 102 & Part of Range 103, all West of 5th PM	7575
n.d.	Rose, J.	M. Kay et al.	Analysis of Human Osteological Remains Multi-County Areas, Emmons, Sioux, Bowman & Mercer Counties, ND	2755
1951	Mattison, R.		Appendices A & B to Accompany Report on Historical Aspects of the Garrison Reservoir Area, Missouri River, McLean Co., ND	110
1951	Mattison, R.		Report on Historical Aspects of the Garrison Reservoir Area, Missouri River	109
1965	Anonymous		Historic Sites Under the Authority of the State Historical Society of ND As Established by The Thirty-Ninth Legislative Assembly	2011
1977	Econ, Inc.		Interpretive Guide: Archaeological Photo Interpretation and Feasibility Study of a Five County Area in West Central ND Using Small Scale (1:80,000) Aerial False Color Infrared	79
1977	Schneider, F.		Archaeological and Historical Investigations in the Garrison Diversion Unit, ND: Central & Southern Sections	99
1977	Schneider, F.	F. Holland	Preliminary Field Recon. & Lit. Search of Cultural Resources in the Burlington Dam Project; Preliminary Cult. Resource Investigation of the Upper Souris River Basin, ND	136
1978	Joyes, D.		The Thunderbird Motif at Writing Rock State Historic Site	--
1978	Loendorf, L.		An Evaluation of 110 Archaeological and Historical Sites, McKenzie, Billings, Golden Valley, Bowman, & Slope Counties in the Little Missouri Grasslands of ND	5466
1981	Good, K.	J. Dahlberg	Mitigation Plan Phase I for the Proposed Saskatchewan, Canada, Intertie Transmission Line Right-of-Way, Northwestern ND, Divide, Williams, Burke, Mountrail & Ward Counties	2524
1982	Snortland, J.		Inventory and Archeological Assessment of the State Historical Society of ND's State Historic Sites	1814
1983	Friedman, P.		Reservation Telephone Cooperative Buried Telephone Cable Letter, McKenzie Co., ND	3035
1984	Kuehn, D.	C. Falk et al.	Recent Investigations at Midipadi Butte	--
1987	Schweigert, K.		National Register of Historic Places Evaluation of the Birdhead Ranch (32MZ826), McKenzie Co., ND	6453
1988	Reid, J.	B. Sandberg et al.	Bank Recession Processes, Rates, and Prediction, Lake Sakakawea, North Dakota, USA	--
1989	Penny, D.	T. Larson	Results of a Cultural Resource Inventory of Six Farmers Home Administration Parcels, Stark, Sioux, Mountrail, Williams, Morton, and Burleigh Co., ND	4911

Year	First Author	Second Author	Title	Ms #
1990	Gregg, M.	P. Picha	Des Lacs-Souris Drainage Basin Erosion Control Study Area Cultural Resources Review Part 1: Prehistoric Cultural Resources Overview & Part 2: Prehistoric & Historic Archeological Sites on Primary Sample Units & Potential Impacts	5036
1991	Deaver, K.	J. Brownell	Cultural Resources Management Plan for the Coteau East Mine Area (Life-of-Mine Area), Mercer Co., ND	5673
1991	Ross, N.		Report of Task II: Evaluations & Recommendations For Five Historic Properties In the Coteau Freedom Mine Life-of-Mine Area, Sites 32ME710, 32ME712, 32ME713, 32ME714 & 32ME780	5457
1991	Williams, J.		Human Skeletal Remains Recovered From Site 32ME399	5583
1992	Williams, J.		Miscellaneous Human Skeletal Remains Recovered From Williams Co., ND	5701
1994	Peterson, L.		Interim Report Mitigation of the Bees Nest Site, Mercer Co., ND	6194
1995	Good, K.		Ray Underpass in Williams Co. -Historic Documentation NDDOT Bridge Replacement Project No. NH-7-002(041)052 Bridge No. 2-053.731B SITS No. 32WI321	6676
1995	Larson, T.	D. Penny	Results of the 1994 Archaeological Investigations at 32MN395, Mountrail Co., ND	6472
1995	Molyneaux, B		Analysis of the 1990 Collections from the Gamache Site (32WI50) Williams Co., ND	2728
2001	Fandrich, B.		The Renner Site (32ME2179): An Historical Farmstead Located in the W/SE/SE of Section 22, T146N R88W Mercer Co., ND	7901
2002	Madson, M.		Architectural History Review for Proposed ND1 Downtown Williston-Alt. 1 Communications Tower, Williston, Williams Co., ND	8410
2003	Kadmas Lee & Jackson		History of the Four Bears Bridges From Elbowoods to New Town, McLean Co., ND	8882
2004	Fandrich, B.		A Brief History of the Settlement of Germans from Russia into Eastern Mercer Co., ND	8984
2004	Reed, T.	C. Grinnell	"Grandmother's Second Lodge" (32ME2221): A Stone Feature Site located in Mercer Co., ND	8965
2005	Hufstetler, M.	J. Goff	Historic Bridges in ND 2004 Revision	10128
2006	Bluemle, W.	A. Bleier	Mandaree 2005: Results of Cultural Resource Inventories and Monitoring in Dunn and McKenzie Co., ND	9617
2007	Spurr, K.	R. Nickel et al.	Remote Sensing Investigations in 2006 at Area A of Beacon Island, Lake Sakakawea, Mountrail Co., ND	10043

Cultural/Temporal Affiliation

Table 6.8: Cultural/Temporal Affiliation of Archeological Resources in the Garrison Study Unit, 13-Sept-2007.

Paleo-Indian	
Unspecified	7
Folsom	1
Plano	6
Total	14
Archaic	
Unspecified	31
Early Large Side-Notched	4
Oxbow	4
McKean/Duncan/Hanna	23
Pelican Lake	34
Total	96
Woodland	
Unspecified	119
Early Woodland	1
Middle Woodland	4
Besant/Sonota	37
Late Woodland	16
Avonlea	6
Devilslake/Sourisford	1
Total	184
Plains Village	
Total	15
Plains Nomadic	
Total	15
Historic	
Unspecified	21
Arikara	1
Chippewa	1
Hidatsa	5
Mandan	1
Euro-American	8
Total	37
Unknown	4,075

Paleo-Indian Period

Surely, the upper Missouri River area was used by the earliest people to come to North Dakota. The most Paleo-Indian projectile point finds in the state have been at places near the river (Schneider 1982d). Remains of terminal Pleistocene-early Holocene megafauna are also found scattered throughout this Study Unit. The Beacon Island site with its *Bison antiquus* skeletal remains and associated Agate Basin component (Ahler 2003c) indicates this property type is indeed represented in the Study Unit. More components of this sort should be anticipated.

Paleo-Environmental Modeling

Because of the great amount of erosion and deposition that has taken place across the landscape since Paleo-Indian times, it has proven just as difficult to locate an intact Paleo component in this Study Unit as elsewhere in the state. Paleo-environmental modeling and Paleo-Indian archeology are intimately related research topics. Ancient cultural deposits hold a wealth of information concerning environmental conditions at the time of the occupation(s). But just as significantly, it is important to know something about the effects of environmental conditions subsequent to the time of ancient occupation in order to gain insights into where deposits of similar antiquity might be found. Based on the discovery of Folsom and later Paleo remains at the Moe site (32MN101) (Schneider 1975), it is known that such ancient deposits can be anticipated above today's reservoir water level on some landforms within the Missouri valley. They can also be expected outside the valley, especially in areas which were once peripheral to playa lakes that are now dried up. Along the shoreline of Lake Sakakawea, properties such as the Moe site which have lain undisturbed for thousands of years are being lost to shoreline erosion (cf. Reid et al. 1988). The annual rate of bank recession ranges from 0-4.4 m per year and averages about 1.6 m (ibid.:187). There is a glaring absence of models that are useful for predicting Paleo-Indian site locations and the kinds of erosional settings along Lake Sakakawea where such exposures can be expected. How did the rate of flow of the Missouri River vary through the Paleo-Indian period, and could torrential meltwater flow have inhibited people from crossing the river?

Settlement Behavior

A KRF Clovis point base, with one face "totally patinated" is reported from 32ME946 (Floodman 1988:220). This site covers 2 ha on the crest of a high ridge between Beaver Creek on the south and an unnamed tributary on the north (ibid.:108). The same project reported an isolated find of a KRF Agate basin point with "about 20% patina" on each face. This isolated find location was on the beach along the lower reaches of present-day Lake Sakakawea near an intermittent tributary stream (Floodman 1988:201). This would probably have been an upland, valley rim or valley side slope overlook setting before the lake was there. What was the most favorable setting for residential base settlements in

the upper Missouri valley in early Holocene times? Should a distinction between residential bases and field camps be expected for Paleo-Indian hunter-gatherers as for later Archaic peoples?

Native Subsistence Practices

Beacon Island (32MN243A) is the first Agate Basin site identified through controlled excavation in North Dakota (Ahler 2003c). The site contains intact, unmixed, and datable remains of *Bison antiquus*. Taphonomic and seasonality research questions could be more fully studied with a larger sample size from this significant site.

What subsistence resources were available in the GSU, and how did that availability vary through the 4,000 years of the Paleo-Indian period? Dan Aird reported the discovery of mammoth skeletal remains unearthed in building construction in 1988 at a place near Powers Lake near the Burke-Mountrail county border (Dan Aird, personal communication to M. Gregg, December 1989). Although the find has not been radiocarbon dated, the shallowly buried context indicates a postglacial, Holocene age. Remnant Pleistocene megafauna should have been present throughout the Study Unit during the early Holocene, at least during the early centuries of the Paleo-Indian period. Materials such as gastropods and pollen from early Holocene paleontological sites should be studied to generate information about climate and vegetation.

Technologies

Two lithic technological procedures prominently represented at sites in the GSU are Folsom fluting and blade production (cf. Ahler 2003c; Schneider 1982d:35-36, 1982c). There are better prospects for collecting information concerning these procedures from campsites outside the quarry area than from the quarry sites themselves where debris from advanced stages of toolmaking, if present, is typically mixed with debitage from raw material testing, bifacial reduction, core preparation, and other earlier stage procedures. Was blade core preparation characteristically carried out at the quarries with blade production carried out at residential sites outside the quarries?

Ahler and Geib (2000) provide a well-developed explanation for Folsom point design and adaptation. They recommend the model be “tested and refined through studies of finished point and preform length, artefact [*sic*] proportions and fracture patterns, basal margin treatment, use-wear in archaeological specimens and through actualistic studies of experimental point/haft arrangements” (Ahler and Geib 2000:817).

The collection of Agate Basin points from Beacon Island (32MN234A) and other well-dated sites could provide an in-depth assessment of technological contrasts and similarities in the production, haft technology, and use of Agate

Basin versus Folsom points and the culture-historic relationship between these two cultures (Ahler 2003c).

Artifact Styles

The Moe site (32MN101) near New Town has yielded eight Folsom points. It has also yielded Plainview (or Goshen; n=7), Agate Basin (n=7), Parallel-Oblique Flaked (n=1), Scottsbluff (n=1), and “numerous parallel and obliquely-flaked midsections” (Schneider 1982d:17). Winham et al. (1987:Figure 208) illustrate an Agate Basin point fragment from 32DU662. Metcalf et al. (1988:170) illustrate a probable Alberta point surface collected from an isolated find spot near Scorio Creek close to the headwaters of the Little Muddy River basin. Is there anything about any of the Paleo-Indian point styles represented by finds from the GSU which differ from the Northern Plains norms? Stylistic attributes of mid-blade morphology should be identified to enable identification of Paleo-Indian point fragments.

Regional Interaction

The most productive areas for the discovery of Paleo-Indian remains has been in the KRF primary source area and in or near the Missouri River valley (cf. Root et al. 1986:466; Schneider 1982d:37). Knife River flint was a big attraction, sought by people throughout most of the Plains. Did some of the major travel routes to and from the KRF quarries cut through the GSU, and could such travel routes be reconstructed through analysis of archeological sites and find spots? Some of the biface fragments from the Moe site near New Town in the Missouri valley are production failures and unfinished pieces (cf. Schneider 1982d:29). This is the sort of material that would be expected in the lithic assemblage at a campsite of people traveling away from the quarries with a supply of stage 4 bifaces for making points.

Historic Preservation Goals, Priorities, and Strategies

During the summer of 1989, with the level of Lake Sakakawea at an all-time low due to drought, numerous Folsom and other Paleo points were rumored to have been collected by nonprofessional unpermitted individuals from sites exposed along the shorelines at the edge of the lake and on islands. These were very significant finds which may never become public knowledge because such collecting is illegal. Some sort of arrangement should be worked out with the US Army Corps of Engineers to document the finds and record the sites. The great number of Paleo point finds from the Garrison reservoir shoreline which are rumored, combined with those which have been authenticated, clearly indicates that these specimens have eroded from sites within the big valley. Coring or augering should be conducted upslope from these discovery locations in an attempt to identify the depositional contexts of the previously intact sites. Testing and research projects such as Beacon Island (32MN234A) should be undertaken

in order to salvage significant information prior to their destruction due to erosion and inundation.

Also, a high priority should be to test excavate the proboscidian site reported by Dan Aird. This site remains partially intact near the town of Powers Lake. It is the second find of an intact, possibly complete mammoth skeleton in North Dakota, and neither has been appraised for potential for association of artifacts. (The other is in the James River Study Unit near Millarton.) Excavations should involve archeological and paleontological specialists, and a minimum of a pair of radiocarbon dates should be run on bone samples.

Plains Archaic Period

The GSU vies with the Little Missouri River and Knife River study units in having large numbers of Plains Archaic components dated and test excavated. As elsewhere, however, it is only the post-Altithermal components which are well represented. The deeply stratified sequence at the Mondrian Tree site (32MZ58) provides a reference point for considerations of Middle and Late Archaic cultural developments.

Paleo-Environmental Modeling

Sites in alluvial fan and valley wall footslope contexts along the margins of the Missouri River valley have potential to provide a wealth of information concerning environmental conditions during the Archaic periods. As in similar settings in other parts of the state, Middle and Late Archaic deposits are found in relatively rapidly deposited sedimentary context in comparison with later Middle Woodland, Late Woodland, Plains Village, and Equestrian period remains. Times of rapid deposition in such contexts correlate with erosion in the uplands resultant from drought. Studies of gastropod, rodent, and insectivore remains from dated Archaic contexts can also provide environmental information for the site locality as well as the region [e.g., at the Mondrian Tree site, 32MZ58 (Brine et al. 1983)]. All intact Archaic deposits should be analyzed for paleo-environmental data as part of testing and major excavations.

Cultural Chronology

Excavations at the Moe site did not encounter Paleo-Indian remains as hoped, but intact Archaic deposits were samples which yielded radiocarbon dates indicating occupations at ca. 4320 BC or 4045 BC (Schneider 1975:17, 25). Such dates would be reasonable for a Logan Creek/Mummy Cave component, but no diagnostic artifacts were recovered from this excavated sample of dated site matrix.

The most extensive battery of Archaic radiocarbon dates from any site in the state is from the Mondrian Tree site (32MZ58) where 24 samples were dated

from seven cultural zones spanning the years from ca. 2200-200 BC (Toom and Gregg 1983:Chapter 8). Represented in the Mondrian Tree site excavations were: (1) a Pelican Lake component with apparent relationships to Sonota/Besant, (2) an undetermined number of unclassified Middle-to-Late Plains Archaic components, and (3) an undetermined number of Middle Archaic components including one assigned to the Duncan complex (ibid.:8.72). Why is it so difficult to classify Late Archaic components in the GSU to the level of a cultural complex?

Settlement Behavior

Plains Archaic artifacts have been identified most often in upland settings in the GSU (Table 6.2). A large percentage has been identified in terrace and riverbank locations as well, but those sorts of locations near permanent water were surely occupied more often than indicated by the site file data. This is a reflection of the higher sedimentation rates and deeper burial of Archaic sites in the river bottomlands than in the uplands. Many stone circle sites in the uplands are probably attributable to the Late Archaic period when settlement appears to have been fairly heavy here as it was throughout most of the state. A corner-notched dart point found at 32WI270 indicates occupation at this stone circle site situated 10 mi (16 km) north of the Missouri River (cf. Metcalf et al. 1988:132). How extensive were the core territories of Late Plains Archaic peoples who used the GSU, and how do the sizes of these territories compare with those of the Early and Middle Archaic?

Native Subsistence Practices

The Middle and Late Archaic components at the Mondrian Tree site (32MZ58) yielded bone remains of canids (probably dogs), beaver, pronghorns, deer, elk, and bison (Falk 1983). The Middle/Late Archaic Cultural Zone 4 dated to the 1080-905 BC time range yielded a fragmentary sandstone grinding slab along with a quartzite mano or pestle. Associated with the grinding tools were a circular surface hearth, chipped stone flaking debris, a few chipped stone tools, and charred seeds of goosefoot, marsh elder, knotweed, dogbone, wild rose, wild grape, strawberry, hedge nettle, and mallow. The association of these remains indicates summertime collecting and processing of plant foods (Gregg 1983d:23.32). How much more fruitful is it to study subsistence practices based on remains from buried bottomland sites rather than upland sites?

Technologies

The earliest Early Archaic chipped stone technologies should be expected to exhibit vestigial traits from Paleo-Indian times. At the Cherokee site in Iowa (Anderson 1980; Shutler et al. 1974), late Paleo-Indian and Early Archaic remains were essentially indistinguishable. Frison et al. (1976:55) said the points from the Hawken site near the Black Hills “could be regarded as nothing more than late, local Paleo-Indian styles such as Frederick and Lusk with added side

notches.” A parallel flaked, side-notched point isolated find reported by Metcalf et al. (1988:173) from a location in the BLM’s Sand Creek Coal Study Area a few miles west of Williston fits in this mold. Other close similarities between late Paleo-Indian and pre-Oxbow Archaic chipped stone technological traits should be anticipated.

With regard to Middle Archaic technologies, stratified sites with several Middle Archaic cultural zones are ideally suited for investigating differences in the chipped stone technologies of the McKean Lanceolate, Duncan, and Hanna complexes as suggested by the statewide chronological model.) What differences are there in the lithic technologies represented in McKean Lanceolate, Duncan, and Hanna components, and do these differences support the proposition that this sequence of three complexes represents an evolutionary continuum?

Artifact Styles

There is a range of variation in side-notched dart points with incurvate bases which takes in the Early Archaic Oxbow style (cf. Dyck 1977:72-86) and Late Archaic Yonkee (cf. Bentzen 1962a) and Sandy Creek (cf. Wettlaufer 1955:Plate 10) styles. The outline morphologies of these three point types overlap, and although these three styles have been used as if they are diagnostic, this is not the case based on current type style descriptions. Points such as the one identified as Oxbow from 32DU769 (Winham et al. 1988:471) have provided the basis for identifying Early Archaic components when Late Archaic components may actually be represented. More rigid and non-overlapping type style definitions need to be formulated for the various diagnostic forms of Archaic side-notched, incurvate base, and chipped stone dart points. These definitions should be formulated based on large samples from contexts with multiple unproblematic radiocarbon dates.

Regional Interaction

The copper artifact from a Late Archaic deposit at the Boots site contributes additional support to the proposition that inter-regional exchange rates were greatest during the Paleo-Indian, Late Archaic, and Plains Village periods.

Groups with Pelican Lake material culture interacted with others whose archeological remains we identify as Besant/Sonota. These two archeological cultures were contemporary in North Dakota and other parts of the Northern Plains for several centuries. In fact, Plains Woodland cultures in North Dakota may have evolved from a Pelican Lake cultural base somewhere east of the Missouri River sometime around 500 BC (cf. Reeves 1983:149, 161, 185). After that time, people of the NAPIKWAN “cultural tradition” (Besant/Sonota-Old Women’s) were separate from those of the TUNAXA “cultural tradition” (Pelican Lake-Avonlea). Reeves suggests that after the inception of Besant/Sonota, there was little interaction between NAPIKWAN and TUNAXA peoples. However, finds

of Pelican Lake points in Besant/Sonota components and Besant Side-Notched and Samantha points in Pelican Lake components evinces some degree of interaction. At what times in prehistory did the boundary between Pelican Lake and Besant/Sonota territories cut through the GSU?

Historic Preservation Goals, Priorities, and Strategies

As with the archeological records of most other times and places, it would benefit research as well as cultural resource management to know more about the landforms and depths of burial where components of the Early, Middle, and Late Plains Archaic periods are likely to be found. Secondly, the GSU probably matches the Knife River Study Unit in potential to yield information concerning Late Plains Archaic stylistic variation in projectile points. The sample of four straight-based, side-notched flake points from the ca. 1000 BC. Archaic deposit at the Mondrian Tree site (32MZ58) is a case in point (cf. Toom 1983b:10.104). Reeves (1983:50) suggested that there may be nearly 50 “lower order types” of the Pelican Lake Corner-Notched style. Many of the makers of these numerous types of points probably traversed the GSU en route to and from the KRF quarries.

Plains Woodland Period

Besant/Sonota components are very well represented in the GSU. In the Mercer County, Lake Sakakawea shoreline survey, sites of the Middle Plains Woodland period were found in greater numbers than those of any other period. Temporally diagnostic remains included Besant Side-Notched points, ceramics, and possibly the one burial mound that was identified (Floodman 1988:314). Late Woodland cultures are represented by Avonlea and Mortlach. Numerous components attributable to the Old Women’s complex also should be anticipated. Some of the components identified as Late Woodland in the site file database may be Old Women’s. If the Old Women’s complex evolved from Besant/Sonota in the NAPIKWAN “cultural tradition” as hypothesized by Reeves (1983:45, 185), and Besant/Sonota is prominently represented in the GSU, then the culture into which it evolved should also be represented.

Paleo-Environmental Modeling

Environmentally favorable conditions --those fostering the buildup of regional biomass--appear to have peaked twice during Woodland times in the GSU. These favorable mesic times are represented in stratigraphic sequences by two prominent paleosols (cf. Clayton et al. 1976:11). The older paleosol is identified as the upper Thompson paleosol in the Lower Submember of the Riverdale Member of the Oahe Formation (ibid.). It correlates in time with the Sonota/Besant cultural climax of the Middle Woodland period. The more recent paleosol is in the Upper Submember of the Riverdale Member of the Oahe Formation. It correlates in time with the Neo-Atlantic climatic episode and a florescence of Plains Village cultures early in the Plains Village period. But this

time of favorable climate began during the Late Woodland period. In stratified sequences spanning the Plains Woodland periods, these should be the two most prominent paleosols, and other thinner buried soils should be represented as well. Two questions regarding these paleosols and paleo-environmental conditions in the GSU are: (1) How accurately can the beginning dates and ending dates of these episodes of soil development be determined? and (2) Did mesic climatic conditions prevail uniformly over the entire GSU during these periods of soil development?

Cultural Chronology

Small corner-notched dart points such as the one from 32DU132 near the Lake Sakakawea shoreline are stylistically similar to, and perhaps contemporary with, small corner-notched points from the Early Woodland cultural zone at the Naze site (32SN246) in the James River Study Unit (cf. Gregg 1987d:Figure 8.2c, d). Besant/Sonota Middle Woodland components are relatively common (cf. Artz 1989b:150; Good and Hauff 1977; Lehmer et al. 1978). Late Woodland components attributable to the Avonlea and Mortlach complexes are also numerous (cf. Metcalf 1963; Schneider and Kinney 1978). Does the Late Woodland culture history of the GSU fit the statewide chronological model, or did Woodland lifeways persist and dominate in the GSU throughout much of the Plains Village period?

Settlement Behavior

People with Middle Woodland Sonota/Besant material culture had core territories within (or which included) the GSU. This is inferred from the presence of mortuary sites of apparent Sonota/Besant origin such as at the Boeckel-Renner site (32ME799; cf. Artz 1989b) combined with the large number of Sonota/Besant sites indicating a strong presence of the sort that would result from permanent occupation of a territory. Cold season residential bases with remains of lodges should be anticipated in south-facing wooded draw settings. Such settlements surely were numerous in floodplain forest locations as well.

Native Subsistence Practices

32ME947 is a stratified multiple component bison kill and processing site. The lower component in the bone bed, which is exposed in a cutbank, is identified as Middle Woodland, with the later component being Late Plains Woodland attributed to the Old Women's complex (Floodman 1988:320). Continuity in the mere hunting of bison is a fact of Northern Plains prehistory, but use of the same kill spot by people with cultural complexes which have been hypothesized to be genetically related in the NAPIKWAN "cultural tradition" suggests the possibility of continuity in very specific aspects of subsistence practices. Were there similarities in bison processing practices between Besant/Sonota components and Old Women's components indicative of closer evolutionary relationships than would be expected for unrelated cultures?

Subsistence remains from the Mortlach component at the Evans site (32MN301) include bison, swift fox, dog/coyote, deer, duck, and a charred plum seed (Schneider and Kinney 1978:31). Bison scapula digging tools were also recovered, but not any remains of garden crops. The diversity of subsistence remains chipped stone artifacts, bone tools, and ceramics from the test excavation suggests some fairly settled type of encampment, perhaps on the order of a field camp. Seasonality data indicated occupation from late summer to early winter (ibid.). What should be expected in the way of subsistence remains at Mortlach sites that were occupied during different seasons of the year?

Technologies

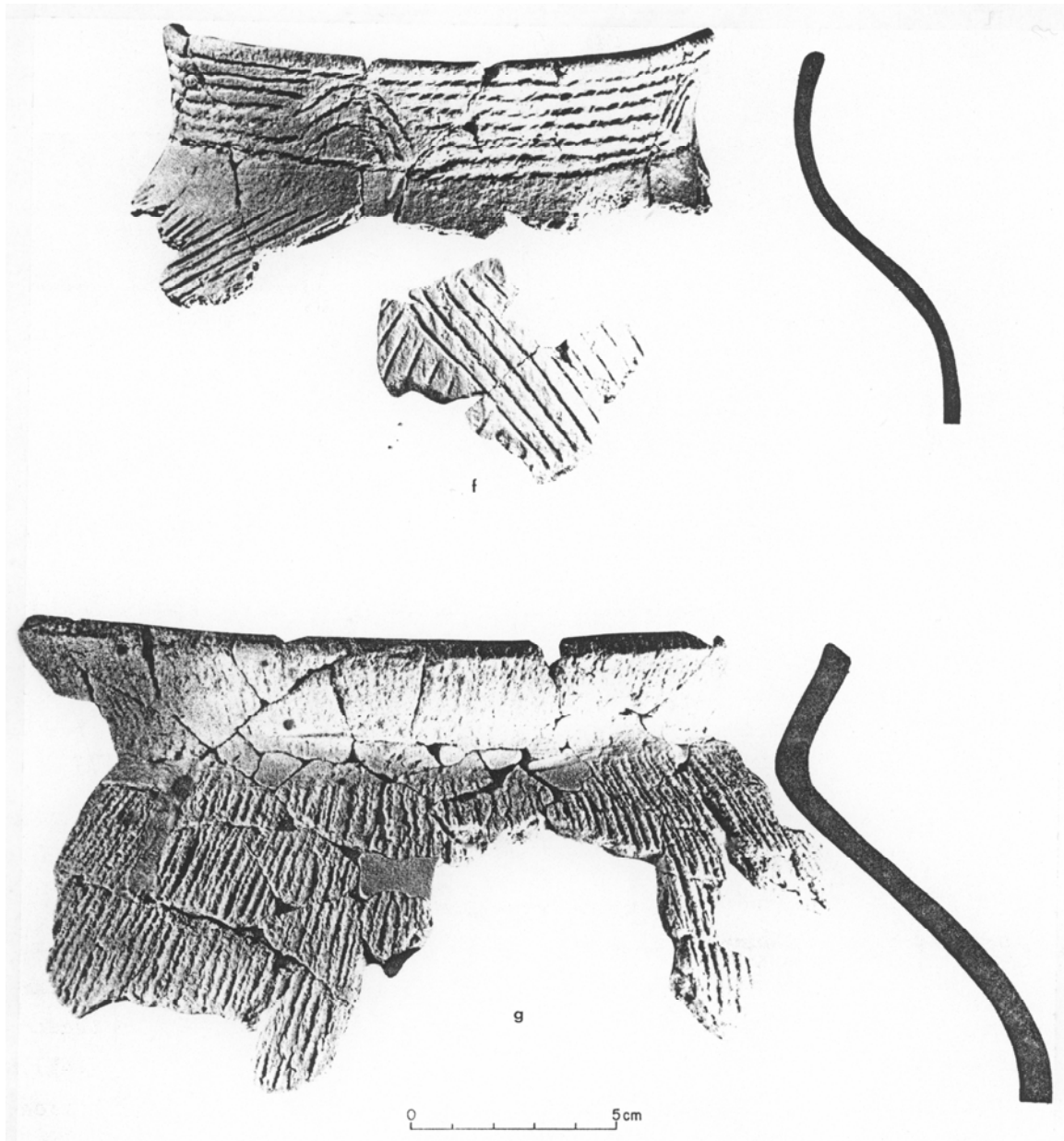
Ceramic technologies were operative in the GSU from at least as early as the Middle Woodland period as represented at sites such as Nightwalker's Butte (32ML39) (Lehmer et al. 1978:125; Wood and Johnson 1973:64). There are potsherd samples from later Woodland excavated contexts at the Evans site (32MN301) (Schneider and Kinney 1978) and the Mondrian Tree site (32MZ58) (Craig Johnson 1983). Such samples have been described with reference to larger collections from surrounding areas. For example, a Late Plains Woodland vessel from the Mondrian Tree site estimated to postdate AD 1200 was appraised by Craig Johnson to share closest affinities with Duck Bay materials found in southern Manitoba and Initial Middle Missouri ceramics from along the Missouri River in South Dakota (Figure 6.2, lower illustration). How do attributes of Woodland ceramics in the GSU differ from those found in surrounding regions and subareas?

Artifact Styles

Prairie Side-Notched arrowpoints, a variety of untyped side- and corner-notched forms, and Avonlea arrowpoints were recovered in test excavations at the Evans site (32MN301) from a cultural zone dated to the AD 600-800 time range (Schneider and Kinney 1978:15). This discovery indicates quite a bit of arrowpoint stylistic variation early in the Late Woodland period. What is the meaning of great stylistic variation in a single component deposit, and what does such variation signify with respect to Late Woodland cultural developments in the GSU?

Mortlach ceramics display considerable variability in decorations as well as vessel forms (Johnson 1977b:41-48; Schneider and Kinney 1978; Syms 1977:125, 1980:376). Straight, excurvate, and S-shaped rims are known. Exterior surface treatment is variable: plain, cordmarked, fabric impressed, smoothed over fabric impressed, simple stamped, or check stamped. Decorative techniques include dentate stamping, oblique incising on the lip, cord impression on the lip, tool impressions, cord wrapped rod impressions, punctates, tool gouging, finger impressions, exterior lip notching, and trailing. Do these traits indicate closer

Figure 6.2: Ceramic vessel and body sherd photos, Mondrian Tree site (32MZ58); f: cord impressed vessel; g: cord roughened vessel (from C. Johnson 1983:9.11).



ceramic affinities to the Heart River phase and Scattered Village complex than to Blackduck, Sandy Lake, or other contemporary Woodland archeological cultures?

Regional Interaction

Obsidian of probable Sonota cultural affiliation was recovered from the Boeckel-Renner site (32ME799) high atop the Missouri-Knife divide with its astonishing view northward across the Missouri valley (Artz 1986, 1989b; Gregg et al. 1985). Two pieces of this obsidian were identified with a Meland, Idaho source. This southeastern Idaho source is not as well represented in North Dakota components as north-central Idaho sources (i.e., Camas Creek-Centennial Mountains and northwestern Wyoming Yellowstone Park) (cf. Baugh and Nelson 1988). Besant/Sonota sites along the Missouri River may have been situated directly upon a waterway travel route which was used to transport exotic stones eastward into the Hopewellian Interaction sphere. Were there “transaction sites,” “exchange centers,” or any other sorts of central communities in Sonota/Besant culture which functioned in Middle Woodland exchange in any way analogous to similar specialized settlements in Midwestern Middle Woodland societies?

Historic Preservation Goals, Priorities, and Strategies

There is probably no North Dakota Study Unit with greater potential for revealing significant correlations between Woodland archeological complexes and the named (and yet-to-be named) sedimentary strata of the Oahe Formation. As these associations are worked out, it may become possible to identify archeological deposits as dating to one of the three Woodland periods merely by properly determining its chronostratigraphic context. Working toward this goal will have the additional benefit of revealing more about places across the landscape which should be considered to possibly hold archeological deposits of Woodland period antiquity.

Another high priority in the GSU is to refine the chronology of Woodland cultural complexes represented in the archeological record. Did any other cultural complex extend its range into the GSU during the era of Besant/Sonota? What Late Woodland complexes are represented which might have provided a material cultural milieu out of which Village cultures might have evolved?

Plains Village Period

Prior to ca. AD 1780 when the villages in the southern half of the Knife-Heart region were abandoned, the Garrison region was mainly an area of hunting camps and other temporary settlements with very few permanent settlements (Lehmer 1971:39). Thereafter, the Garrison region became a refuge for the Villagers (ibid.). Nothing has been discovered to indicate that Lehmer's generalizations on this matter are in need of revision.

Paleo-Environmental Modeling

Two paleosols in the Upper Submember of the Riverdale Member of the Oahe Formation date to early and late Plains Village times (cf. Clayton et al. 1976:11). Between these two paleosols, and dating sometime within the middle of the Plains Village period, there is often a zone of undeveloped sediments representing a droughty era when the land was blowing. This droughty era may correlate with a time in the prehistory of the Middle Missouri subarea during which the subsistence resource base was diminished, and conflicts broke out between neighboring groups (cf. Lehmer 1971:105). How did paleoclimatic conditions affect human land use during the Plains Village period in the GSU?

Cultural Chronology

The chronology of Plains Village archeological cultures in the GSU is often drawn directly from the well-grounded culture-historical framework developed for the upper Knife-Heart region (cf. Lovick and Ahler 1982). The sequence begins with the Clark's Creek phase (AD 1000-1200) when long rectangular houses were built in unfortified village residential bases and pottery vessels were often made in conformance with Riggs ware and Fort Yates ware styles. Also dating to this phase are vessels such as one recovered from the Mondrian Tree site (32MZ58) (Figure 6.2, lower illustration; cf. Johnson 1983) which evince Initial Middle Missouri and Late Woodland influences in vessel form and surface treatment. This earliest portion of the Plains Village chronological sequence is not yet represented in the archeology of the GSU by any residential base settlements. Was any part of the GSU permanently occupied by Villagers during the early centuries of the Plains Village period?

Settlement Behavior

During prehistoric and early protohistoric times, the Villagers with core areas in the Knife-Heart and perhaps Cannonball regions used the territory of the Garrison Study Unit as a secondary area, one which they visited regularly for specific purposes and resources (cf. Syms 1977:5-6). Sites such as White Earth Creek (32MN101) with a fortification ditch, palisade wall with bastions, but lacking earthlodge depressions (cf. Muller 1968), may represent use of this secondary area by Villagers at a time when such use was contested by Woodland people who held it as a core area or who used it regularly as a secondary area. The range of Plains Village settlement types known in this unit needs to be spelled out. Aside from large fortified earthlodge village settlements, what other site types known in the core areas are not represented for prehistoric Plains Village times in this Study Unit?

Intensive site identification work in a restricted locality can result in the documentation of Plains Village components in a variety of settings indicative of varied activities. Such is the case at the Missouri River crossing of the Northern Border pipeline where Plains Village field camps were established in a sheltered

tributary stream valley setting at the Mondrian Tree site (32MZ58) and special purpose activities went on in an adjacent open upland rim setting at the Edna Mae site (32MZ369) (Root 1983m). Localities such as this present an opportunity to explicate a range of settlement behavior if not quotidian activities. In Binfordian terms, how many different kinds of special purpose “locations” might reasonably be expected to be archeologically identifiable out afield in the GSU away from the earthlodge village residential bases?

Native Subsistence Practices

The Villagers living along the Missouri River (in the Southern Missouri River Study Unit) who were visited by La Verendrye in AD 1738 grew corn, melons, pumpkins, and beans. In the late 1800s and early 1900s, after the survivors of the epidemics moved northwestward into the realm of the Garrison Study Unit, their crops included corn, beans, squash, sunflowers, and tobacco (Meyer 1977:63; Will and Hyde 1917; Wilson 1917). How were horticultural practices changed by the volatile cultural events spanning late prehistoric, protohistoric, and historic times? What sorts of archeological contexts must be sampled, and what sorts of recovery techniques must be employed to enable collecting data to answer such questions?

Technologies

Sites that witnessed multiple occupations during this period, and where deposits from the multiple occupations are stratified, have potential to hold information concerning changes in technologies. This was the case at the Mondrian Tree site (32MZ58) where Plains Village remains attributed to the Scattered Village complex were recovered from the two uppermost excavation levels. Several temporal trends were noted in studying the ceramic bodysherd samples (cf. Johnson 1983). Through time, there was an increase in the percentage of sherds with smoothed exterior surfaces and a decrease in simple stamping. Body sherd thickness increased. Are these trends characteristic of middle-to-late Plains Village times throughout the GSU?

Artifact Styles

Ceramic vessel forms and kinds of decoration combine to yield “wares” which, next to radiocarbon dates, provide the most useful material for determining when sites were occupied. For example at Midipadi Butte (32DU2), all of the Plains Village pottery recovered by excavations was attributable to the Knife River phase (AD 1780 to 1845). Knife River ware made up 80%, Transitional S-Rim ware 10%, and Deapolis Collared ware 10% (Kuehn et al. 1982:48). These wares were defined from Knife River phase components in the lower Garrison and upper Knife-Heart regions (Lehmer, Wood, and Dill 1978). Do Knife River phase ceramic vessel styles have a more limited distribution within the GSU than earlier Plains Village vessel styles?

Regional Interaction

Exotic nonlocal shell artifacts are often found in Plains Village sites where fine-mesh recovery procedures are employed during excavation. Dentalium and abalone shell decorative objects were found in association with Scattered Village ceramics at the Mondrian Tree site (32MZ58) (Brine et al. 1983). The cultural mechanisms by which Pacific Coast materials such as these were moved into the Northern Plains are discussed by Wood (1972, 1980). However, Pacific Coast shells are less common in prehistoric Plains Village contexts than historic (ibid.:18.7). At Like-a-Fishhook Village (32ML2), the final earthlodge village occupied by the Mandans, Hidatsas, and Arikaras from AD 1845-1885, pendants and cut slabs of abalone plus “hundreds of fragments of *Dentalium*” were archeologically recovered from lodge floors and caches (Smith 1972:72). Were interactions between Plains Village groups and Pacific Coast peoples more intensive during late Plains Village times than during early and middle Plains Village times?

Historic Preservation Goals, Priorities, and Strategies

Most of the Plains Village residential sites in the GSU have been inundated by the waters of Garrison Reservoir. While the effects of inundation on these archeological deposits have been debated in the past, investigations during low water levels reveal site destruction due to inundation. In addition, there is no question that they suffer from pilferage and looting when reservoir levels drop. The community of concerned archeologists should work with the Three Affiliated Tribes and the US Army Corps of Engineers to safeguard these archeological sites until they can be properly inventoried and evaluated for National Register eligibility.

Equestrian/Fur Trade Period

The GSU is better known for Plains Village tradition sites dating to this period than it is for sites of the Equestrian tradition. Mandans, Hidatsas, and Arikaras moved to this area as a refuge from the hostile Equestrian Nomads during this period, and here the Fort Berthold Reservation was established for them in AD 1870 (Meyer 1977:112). But the Equestrian tradition is also very well represented by archeological sites here, especially in the western portions of the unit in proximity to the Fort Union and Fort Buford trading sites. There is a very rich ethnohistoric record for these contexts from explorers, traders, and military men. The ethnographic and oral historic record is very rich as well (cf. Bowers 1948, 1950, 1965; Wilson 1910, 1916, 1917, 1924, 1928, 1934, 1971).

Paleo-Environmental Modeling

The records of early explorers and trading post journals provide eyewitness accounts of weather conditions which can be studied to fairly accurately model the climate changes of this period (cf. Ball 1984). But the

Indians also had a hand in enhancing some environmental conditions to further their purposes. There is evidence of recurrent burning across the surface of the Mondrian Tree site (32MZ58) which may have been done intentionally in the fall of the year to promote a rapid “greening up” in the spring in order to attract grazing herds of bison to a particular location for hunting (Toom and Gregg 1983).

Cultural Chronology

Mandan and Hidatsa sites occupied between AD 1780 and 1845 in the Southern Missouri River and Garrison Study Units are assigned to the Knife River phase (Lehmer et al. 1978:419). No particular complex or phase name has been proposed for any of the Equestrian remains in the GSU. The beginning of the Knife River phase is placed at 1780 because that was the time of a smallpox epidemic which slashed the population of Mandans and Hidatsas by over 50% (ibid.:427). This precipitous population drop is thought to have been the reasons for a sudden change in technological and stylistic attributes of Plains Village ceramics. Knife River phase pottery is the product of less adept potters than that of the preceding Heart River phase (ibid.:426).

Some protohistoric sites of Villagers and Nomads predating AD 1780 are, by definition, assigned to the Plains Village period until the GSU chronology is refined. Some of these will be pre-horse and some post-horse. An example may be the Jim Harp site (32WI49), a stone circle site, yielded a tri-notched arrowpoint and a gunflint (Root 1983r). Should there be a special chronology for protohistoric times in the GSU?

Settlement Behavior

Site 32WI178, in the BLM's Sand Creek Coal Study Area, lies near Camp Creek, a tributary of the Little Muddy River (Metcalf et al. 1988:10, 115). This location is about 9 mi (14 km) north of the Missouri River. This is a stone circle site with one or more occupations dating to this period as evidenced by the surface collection of metal arrowpoints. There are 10 stone circles and several dozen cairns which form an alignment across the site. Two aspects of the site which support its assignment to the Equestrian period are the large size of some of the stone circles (up to 8 m in diameter) and the total lack of chipped stone artifacts observed on the surface. Because of the GSU's abundance of stone circle sites and sites with trade goods from exchange activities at the Fort Union and Fort Buford trading posts, this would be a good Study Unit in which to test the proposition that domestic stone circles with diameters of 6 m or greater were typically constructed only by equestrian groups who had horses to haul the long poles required to erect such large lodges.

Native Subsistence Practices

Hidatsa gardening and hunting practices and uses of wild plant resources in the GSU during the 1800s are chronicled in wonderful detail in the works of Alfred Bowers (1965) and Gilbert Wilson (1916, 1917, 1924, 1928). A great deal more has been documented by this ethnographic work than ever will be documented archeologically for this time and place. However, the challenge for Equestrian period archeology in the GSU presented by this ethnographic database is to confirm some of these documented practices archeologically. In this way, the interpretive power of Plains Village archeology may be improved for application to prehistoric deposits in the GSU. Looking to the adjacent Little Missouri River Study Unit, Walt Allen (1982) used this sort of ethnoarcheological approach to identify complexes of sites and features which were archeological representations of ethnographically recorded eagle trapping practices. What sorts of archeological remains should be expected as indicators of ethnographically recorded subsistence practices of Equestrian period groups in the GSU?

Technologies

The material culture of Knife River phase Plains Village sites are described in great detail by Lehmer, Wood, and Dill (1978). Native technologies of both the Villagers and Nomads were in decline throughout the Equestrian period. Did the Villagers divest themselves of their traditional technologies at approximately the same rates through the Equestrian period?

Artifact Styles

A number of different classes of artifacts of both Native and Euro-American manufacture were made following styles which changed during the Equestrian period. Tri-notched arrowpoints which became prominent perhaps as early as the 1500s may have persisted into this period (cf. Reher and Frison 1980:25-28). Gunflints of different styles and materials may have probably changed in availability during the first half of the period. Influxes of different kinds of glass trade beads changed leading to the datability of occupation episodes at sites such as Mondrian Tree (32MZ58). Styles of factory-made iron and brass arrowpoints changed although recovered samples are seldom big enough to enable dating a deposit by study of metal points only (cf. Kuehn et al. 1982, 1984). What stylistic attributes of archeologically recoverable material culture could possibly be used to identify ethnic or tribal affiliation of Equestrian period components in the GSU?

Regional Interaction

Intertribal trade that took place during the Equestrian period had its inception in prehistoric times (cf. Wood 1972, 1974). The Hidatsas traded with the Crows, Dakotas, Cheyennes, and others to the south and southwest (Lehmer et al. 1978:5).

Fur trading directly between Indians and non-Indians within the GSU began by at least 1826 when James Kipp of the Columbia Fur Company constructed a trading post in the White Earth Creek valley north of the Missouri in western Mountrail County (Woolworth and Wood 1960). Fort Kipp was established for trade with the Assiniboines whose territory extended from this Upper Missouri county northward into Canada. Did the increased intensity of intertribal interactions during the course of the Equestrian period result in any loss of tribal identity for groups in the GSU? Is increased uniformity or similarity in assemblages of artifacts any indication of ethnic or tribal uniformity or cultural mixing?

Historic Preservation Goals, Priorities, and Strategies

People of the Three Affiliated Tribes (Hidatsa, Mandan, and Arikara) now reside on the Fort Berthold Indian Reservation which lies entirely within the GSU. During the Equestrian period, these people lived lifeways which combined Plains Village and Equestrian adaptive strategies. The Three Affiliated Tribes was approved as a Tribal Historic Preservation Office (THPO) by the National Park Service in 2007. The THPO and the SHSND should continue the close cooperative relationship established earlier.