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Orr, Ellison

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Archives of Archaeology Number 20

### IOWA ARCHAEOLOGICAL REPORTS 1934 TO 1939

(TEN VOLUMES)

by Ellison Orr

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Volume II: State wide Reconnoissance Survey of Indian Mound Groups and Excavation of Camp Sites, 1935.

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Report of a State wide Reconnoissance Survey of Indian Mound Groups, and Excavation of Camp Sites, under Project 1047 of the Iowa Planning Board, by Party under Dr. Charles R. Keyes. Sept. 17, 1984 to Mar. 7, 1985.

Dr. Charles R. Keyes, Supervisor. Ellison Orr, Ass't Supervisor. Fred Orr, Field Worker. Harrison Toney, Field Worker.

THE BELL EY. C

By Ellison Orr

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Report of a trip to Examine and Survey Prehistoric Indian Mound Groups and Campsites, under the Iowa Planning Board's Project S3-A2-1047, for the purpose of selecting Desireable Groups and Sites to Recommend to the Iowa State Board of Conservation to be set aside and reserved for the use, education and enjoyment of the people of the State of Iowa, and to study and agreevate certain camp sites.

Dr. Charles R. Keyes, Supervisor of Project 83-A2-1047 Iowa Planning Board.

Dear Sir:

In pursuance of instructions, with two field workers, Harrison Toney who furnished and drove the car that carried the party, and who also assisted in excavation work, and Fred Orr, assistant in making surveys and excavations, we left Waukon, Iowa, on September 17th, reaching Spencer that evening via State High-

way No. 9.

The following day, the 18th, under the guidance of Mr. A. C. Thompson, with his car, we visited and examined a site on Sec. 24, T. 95, R. 36, on the top of a one hundred and fifty foot high spur of the upland running south into the valley of the Little Sicux - Gillet's Grove, Clay County, on which there was once four mounds now entirely obliterated by cultivation. On this site, Mr. Thompson and others had from time to time picked up many small pottery fragments of shell-tempered (Sicuan) pottery, arrow-heads and a few very small copper beads. While we were looking over the site, Mr. Thompson picked up a round copper bead about 1/8 in. in dispects.

In a pasture two miles northeast, on west side of Little Sioux in Sec. 25, T. 95, R. 36, are a few obscure scattered mounds

which we also visited.

From there we drove across the Little Sioux Valley and south to a similar site on the top of a spur of the upland south of that stream and running north into its valley, on Sec. 34, T. 95, R. 36, - same township and county, as the first one visited. Here we found small fragments of shell-tempered pottery and two mullers.

From there we drove to Sutherland via the Paul Braunschweig and Wittrock sites. After noon, Dr. T. D. Kas of Sutherland, drove us around to other camp sites and introduced us to their owners.

On the forencon of the 19th, we dug a pit five by five feet and five feet deep in the Paul Braunschweig site on the west side of the N. and S. highway that runs across its east half.

On Saturday, the 22nd, assisted by Boy Scouts from Spen-

cer, two additional pits were excavated.

This site is near the center of the SW. 1/4 of Sec. 23, T. 94, R. 59, Waterman Township, O'Brien County, on a "high spet" in the flood plain of Waterman Creek, and has an area of about 500 feet in diameter. Its elevation above the bottom land is 4 feet. At around 2 feet below the surface, we found many pottery frag-ments - not near so many were found above this level - of the Mill Creek culture, with many bones of the buffale and elk with those of the dog and deer occurring less plentifully. All these were found in varying numbers down to 5-1/2 feet. Both bone frag-ments and shords occurred in greater abundance, at all levels, in spots in connection with ash beds but there were no indications of fire pits.

the Mill Creek culture pottery is characterised by the great variety of its shapes and decorative designs and by its hardness and strength - only three or four times did we find a shord that crumbled in handling. All the designs are made with

straight incised parallel lines.

Ninety-two fragments of rims and necks of vessels taken from the three pits, with two exceptions, showed as many different designs either of shape or decoration.

Sufficient pieces of any one shape or having any one design were not found to show with any certainty the shape or the

complete decoration design of a single pot.

Both pottery shords and bones occurred apparently with some little attempt at arrangement in the burial of the pieces. The large bones, unlike those found in the northeastern part of the State, were not split lengthwise for the purpose of extracting the marrow but were broken short off. With these were found bone awls and times from deer antlers; an occasional celt; and very rarely lans-shaped polished greenstone pieces about two inches in diameter.

On Thursday, Sept. 20th, a survey was made of a group of 4 nearly obliterated round mounds on the glacial gravel train terrace on the north side of the Little Sioux river, on the Sw. 1/4 Sec. 24, T. 94, R. 39. Pottery fragments and flints found on this terrace, which is nearly a half mile long and half as wide. indicate an extensive camp site. On the south side of the river a half a mile away on a terrace remnant on the NW. 1/4 of Sec. 25. is another camp ground but no excavations were made on either site.

Mound Group) on the top of the plateau - bluff- lying between Waterman Creek on the west and the Little Sioux on the south, at their confluence, on the Se. of Sec. 26, T. 94, R. 39, were sur-

veyed.

The mounds of the first, a group of four, lying in the extreme northeast corner of the quarter section, are well preserved and have a height of around two feet in spite of the fact that they lie in a field that has been cultivated for many years. The second group of three, lying at the extreme end of the spur of of the plateau have a height of less than one foot.

One-half mile north of the Patterson mounds is a string of five round mounds along the west edge of the plateau bordering Waterman Creek on the east, on the NE. of Sec. 23, T. 95, R. 39.

This group and the enclosed area (camp site) on the NW. of Sec. 11, T. 95, R. 39, were surveyed on Friday, Sept. 21st, This last is the Wittrock site.

On Monday for encon, a survey was made of seven small, low round mounds lying along the plateau edge - the top of a low bluff,

on the west side of Mill Greek on Sec. 34. T. 95, R. 41.
Afternoon, we drove to Lake Okoboji, to examine some reported large mounds on the East shore of that Lake, which proved

to be small Morainic hills.

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Going west from there we spent the night at Lake Park. In the morning, a search along a roadside bank on the North side of Silver Lake, yielded some small pieces of sand-tempered stringdecorated pottery where we expected to find Signan.

The Blood Run Mound Group was reached the same evening in time for a look-over. Working out of Larchwood, 10 miles East, we made a survey of this, - one of the notable groups of Iowa Mounds, on the following two days.

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### The Blood Run Mound Group.

Flowing west then north in a valley 40 rods wide which it has out through a gravel train of the Wisconsin glacier, the Blood Run creek empties into the Big Sioux river in the SW. of Sec. 26. T.

100, R. 49, Lyon County.

The valleys of the two streams, one flowing north and the other south, enclose between them a northward projecting spur of this great, seventy feet thick, gravel train lying for miles along the foot of the bluffs bordering the valley of the Big Sioux on the East.

On the level top of the spur is the Blood Run group of fifty-

two round burial mounds.

Lying scattered over an area 2600 feet long and 600 feet wide. these mounds, before the wild beauty of the primitive prairie on which they were built, was destroyed by cultivation and pasturage and fenced across and around, must have presented a truly imposing sight, all things considered.

It is easily the best group of mounds in Northwestern Iowa. In area covered; in average size; in the characteristic surroundings of a prairie river - the high, rounded grass covered bordering bluffs and the fringes of trees along the streams; and in the

number of mounds, no other group approaches it.
All the tumuli are of the round or burial type. Here we may reasonably surmise lie the great of a numerous people. It may well

have been the Appian way of a powerful dominant race.

Many of the mounds have been mutilated by vandals in search of "relics", but all can be restored by a small outlay of money. We doubt if the primary burials - the real secrets of the mounds-were uncovered in more than a half dozen cases. To the East across the Blood Run on the terrace, at the same level, in one of the similar mounds of the much smaller Martin Johnson Group, implements were found at a depth of eight feet, a depth that would discourage the ordinary relic hunter.

The Group can be reached by good public roads from Larchwood and Granite, thattouch, except for the railroad between, the south

east corner of the mound crowned terrace.

We cannot recommend too highly, nor urge too strongly, the acquisition of this Group by the State of lows, to be set aside as a preserve. So far as we have any knowledge, it is the only mound group in Northwestern Iowa worth while considering. Besides, it is located within less than five miles by a good highway of Gitchee Manito Park - well worth a visit.

On the slope of the terrace a few rods west of the corner to Sections 23, 24, 25 and 26, T. 100, R. 49, in the center of the group is a large granite boulder on one face of which several hundred polished cup-shaped pits from the size of a quarter to a half dollar and one-eighth of an inch deep have been cut. One wonders by whom and why. We only know that making them required an immense amount of labor and that they are prehistoric.

To preserve these mounds with their proper surroundings, the

entire terrace comprising, with the addition of two or three acres of the bottom land of Mill Creek for parking and pionic use, approximately 60 acres should be purchased.

The land belongs to different owners, two of which are Estates. Prices could not be obtained but an estimated value is \$50.00 per

acre.

It is not known by what people these mounds were built, but tentatively they may be considered as Siouan as the abundant artifacts picked up on the surrounding terrace field were apparently

all made by some branch of that nation.

Scattered over the southern part of the Group, were formerly numbers of rock (boulder) enclosed areas which were, according to Kr. Martin Johnson who remembers them well, from eighteen to thirty feet in diameter with an entrance on the SE. side having a wing wall on Book side. Inside the grand on the SE. on Mast' side. Inside the ground was of the same level as outside and the boulders forming the circle were from eight inches to two feet in diameter.

A plat of this group and surroundings with photographs of the "pitted rock" and of mounds :23 and 12, which had never been disturbed and is still covered with the native blue-stem (turkey foot)

grass, follows.

Mrs. Rudt, who owns Sec. 26, says these circles were very numerous on her land and that they hauled off the rocks and heaped them along the W. edge of the terrace. We counted the boulders in this wind row, a total of 1450.
Such rock enclosed areas also occur in South Dakota along the

Big Sioux and Missouri rivers.

(A note appended to the previous page states:

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"Mr. Martin Johnson, at the request of Dr. Keyes, counted the pits on this rock, marking each with chalk as he counted. The total was 743. See also Page 101"

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on Thursday, Sept. 27th, the Martin Johnson group of 19 mounds on the terrace 1/2 mile HE. of the Blood Run Group, was surveyed. All but six of this group lie on cultivated ground. Only one, No. 8, has been excavated.

A plat of this group is attached to this report.

On the 28th, drove from Larchwood to Sioux City. On the way we watched closely the terrace field and bluff tops for mounds but saw none, nor could be learn of any or of camp sites at the farm

houses and towns where we made inquiries.

On Friday, and on Saturday forences, we examined closely the walls of a pit-cilo excavated in the NR. part of Broken Kettle Mound on the farm of Mr. S. T. Mosher, on Sec. 3, T. 90, R. 48, twelve miles north of Sicux City, and dug one pit, 5x5 feet, south of the center

On Saturday afternoon, we returned to Sutherland, spending

Sunday there.

In order to get all the information possible concerning the contents of the mound-like camp sites in the valleys of Waterman and Mill Greeks and of the Little Sioux, it was thought best to spend all the time available for the purpose of making excavations, in digging in these sites, and in the mounds on the bluff top, to determine what connection there might be that these two evidences of occupation were both made by people of the same culture.

No evidences of burials had been found at any time in the course of our excavations in the camp sites. Where then were the evidently numerous people of the culture of the camp sites buried? We felt that further efforts should be made to settle these questions.

On Monday and Tuesday, four pits were dug in the Magnussen camp site near the SB. corner of Sec. 5, T. 95, R. 39, in Cherokee County. This, like the Paul Braunschweig site, was situated on the bottom land of the Little Sioux, west of and near that stream. The "relies" found were of the same culture as those taken from the Braunschweig site.

On Wednesday we drove 15 miles south of Sutherland, to a group of mounds on the bluff top on the East side of the Little Sioux. which the owner of the land had promised to let us excavate, but

cound he had changed his mind.

Driving to the Fred Buitman farm on the SE. of Sec. 11. T. 98. B. 38, 2 miles west of Linn Grove in Buena Vista County, we spent the remainder of the day in making three exceptions in mainder of the day in making three excavations in a camp site on the 60 ft. high terrace north of the Little Sioux, and at about so rods from that stream.

One of the pits was of unusual interest, - containing at a depth of 30 in., unusual evidences of a fire in the shape of burned earth and a thick ash bed on two sides of which were logs of charred oak 5 in. in diameter, in and around which were four fine celts.
We were loath to leave this place and believe that further

work here might result in important discoveries.

Thursday was spent in surveying a group of 3 mounds, one of which we excavated, on the bluff top on the farm belonging to Mr. Lewis Martin on the SW. ME. Sec. 14, 7. 94, R. 39. The mound excavated was absolutely barren.

Mr. Martin's house, about one-fourth mile southwest, stands on a low terrace on the East side and along a bend in a former channel of Waterman Creek, and some years ago he found in his back yard a fine metate of quartsite which he presented to us.

At the Academy of the Quaker settlement eight miles north and west of Sutherland, is a collection of local "Indian relics", among which are two of these unique - for Iows - pieces.

On Friday, Oct. 5th, drove to Cherokee and spent the afternoon,

with Mr. Gilchrist as guide, in locating mound and camp sites.
On Saturday dug two pits on Matt Brewster camp site on south side of Mill Creek on low spur of bluffs to East, At 20 rods S. of creek near the center of Sec. 4, T. 92, R. 40. She material obtained was the same as that found in the Waterman and Little Sioux valleys.

The highway crosses this site and on the bluff top to the MB.

are two nearly obliterated mounds.

Down stream about 40 rods is what appears to be a very substan-

tial fish dam constructed of boulders. (See photograph.)

Monday and Tuesday were spent on Phipps site, a"high spot" west of center of bottom lands of Mill creek. Four pits were dug and same culture found as heretofore.

On the bluff top at and between the confluence of Silver Creek, running morth, and the Little Sioux, running south, on the south half of Sec. 32, T. 91, R. 40, eight miles south of Cherokee, is, or rather was, a solitary mound, now entirely cultivated out of existence. The owner of the land, Mr. R. L. Little, digging in this mound some years ago, found at 14 in. below the surface, a "floor" of small hand pebbles and coarse gravel, and in the next spading below this, two broken but nearly complete pots with a few badly decayed fragments of human bones. The two vessels were Mill Creek culture pottery, and show that atleast some of the people who used the camp sites in the valleys were buried in the mounds on the bluff tops. This pottery Mr. Little has given to the State Historical 30010 ty of the fragments of these two ressels were restored by the Milwankee Public Museum

Across the town line to the south on Sec. 5, was another soli-tary mound, also nearly obliterated, in which we dug but found only disturbed and much decayed bones. Some one had been there before us.

In the afternoon we made a survey of a group of seven small low mounds in a pasture on the N. side of the road along the south side Sec. 9, T. 90, R. 41, on a high bluff at the confluence of Rock Creek and the Little Sioux about two and one-half miles SW. of Quimby. This "high place" affords the grandest panoramic view in the valley of the Little Sioux.

On Thursday, the 11th, we drove down the valley of the Little

Sioux to Smithland and from there to Sioux City.

On the way down the river we made inquiries at every town, and at many farm houses, about camp sites and mounds but after passing Washta, were unable to get any information except at Anthon. No one knew of any nounds or camp sites or of any one who had "Indian relies".

At Anthon it was different. Several people had a few pieces of Sicuan pottery, a few mullers or flints, all apparently Sicuan. In the town, two mounds had been removed because of building operations.

A mile south, on the farm of Mr. Jacob Cross, on a low(4ft. high) terrace were two mounds, one of which Mr. Cross had excavated some years ago and in which he found Siouan pottery.

A short distance to the west of these mounds on a 20 ft. high

terrace along an old channel of the Little Sioux, was what he described as an area regularly laid out in squares 70x70 ft., bounded by "sidewalks" of boulders, there were 8 of these squares. At the foot of the terrace to the East, there was a small lake and a spring.

Unfortunately when Mr. Cross broke up the land it was necessary to remove the boulder "sidewalks", and afterwards the area was used for a gravel pit and all traces of the place destroyed. And now it is impossible to ascertain what really was there - not what Mr.

Cross thought he saw.

At Anthon we very evidently were outside of the Mill Creek Sulture area. Mr. H. L. Stiles at Chercken, who is well informed on this culture, told us that its most southerly camp site was five miles southeast of Washta on the East side of the river.

Besides a few pieces of Siouan pottery, Mr. Cross has a few

celts and flint pieces and a fine metate of red quartsite.

The fact that the latter was found on his farm outside the Mill Creek culture area and that within the Martin metate or the two at the Quaker school can with any certainty be connected with the Mill Creek sites, may mean that they are Sicuan.

Friday and Saturday, Oct. 12, and 13, working from Sioux City, we excavated four pits in the Broken Kettle Mound, two to the NE.

near the pit-silo and two a little SE. of the center.

In digging we had found a few shards of plain pottery that pussled us as they did not seem to be parts of the quite uniformly regular shapes of the vessels whose broken parts we had encountered. But in the last pit we found a complete vessel, except for a small piece out of the rim, shaped like an old fashioned milk pan or a wash basin with straight sides and a flat bottom. It was 10 in. in diameter across the top and 3-1/2 in. deep. Hear it we found nearly half of another.

These pans were found at 3 feet below the surface, and in the first spading of the same pit was a fine celt, the only one taken

by us from the Broken Kettle mound.

On Monday, the 15th, we drove to LeMars and down the valley of Floyd river to Sioux City, making diligent inquiry for mound sites and mounds but getting no information.

### The Mill Creek Culture.

Up to Oct. 16th, twenty days were spent in locating and surveying mounds and mound groups; in excavating scientifically camp sites; and interviewing many persons in the area occupied by the people of the Mill Greek culture.

The evidences of this occupation consist primarily of what has been called camp sites. These are areas on the bottom lands, and gravel trains and other terraces in the valley of the Little Sioux and its tributaries, Waterman, Mill, Rock and Silver creeks in the Counties of Cherokee, O'Brien, Buena Vista and Clay, and one solitary site, the "Broken Kettle Mound", twelve miles north of Sioux City at the mouth of Broken Kettle Creek a tributary of the Big Sioux, in Plymouth County, and sixty-five miles as the bird flies. from the center of the culture area in the valley of the Little Sioux. In addition to these there are the found burial mounds along the edge of the plateau, or bluff tops on both sides of the valley some of which like the mound on the Little farm at the mouth of Silver creek, but not all with certainty, contain the remains of people of the Mill Creek culture. Still another evidence is an earth-work on the NW. of Sec. 11, T. 94, R. 39, O'Brien County, on the farm of Mr. Wittrock, on the Bast bank of Waterman Creek, consisting of a less embankment enclosing a roughly quadrangular area approximately 185x165 ft. with a shallow ditch outside. The owners of the land on which this earthwork lies, have never permitted it to be disturbed by cultivation, and except for the work of possibing diggers, it is as it was at the time of the first white setalement of the country.

It is locally believed that this was a palisaded camp but we were unable to get the evidence of the existence of remains of posts

in the embankment that would certainly prove it.

The interior at the time of our survey, Sept. 21st, was so covered with a dense growth of weeds and prairie grass and flowers, that it was impossible to determine with any degree of accuracy what its surface was. We planned to come back later when the vegetation had to been killed by the frost and dried, and burn the ground over, but were prevented from doing this because of rains.

We saw pottery sherds and some other artifacts that had been found in the interior of the area by two different persons. The pot-

As this Wittrock site is the only certain Mill Creek oulture site not now under cultivation, and, except for desultory digging by "relic hunters", which might be restored, is intact, it is greatly to be desired that it be preserved, and we unhesitatingly recommend that all possible steps be taken, locally, and by the State Board

of Conservation, looking towards that end of this Site was acquired by the State, 1936.) These "camp sites" are roughly circular areas having diameters of 200 - 300 ft. and an elevation of 3 - 4 ft., except the Broken Kettle Mound - which is not a mound as we usually think of one, that is a burial mound, but a camp site - which has an elevation of 8 ft., located on the low - 3 -6 ft. high, - terraces forming the bottom lands, or on those 60 - 70 ft. high formed by outwash from the Wisconsin glacier, and on low spurgof the bordering bluffs.

The Braunschweig, Magnussen and Akers sites are examples of the first, the Hill and Buitman of the second, and the Matt Brew-

ster and Phipps of the third.

All consist of an accumulation of camp refuse consisting of mostly well preserved broken bones of buffalo, elk, deer, dog, turkey and other birds, and of fish and fish scales. With these are large numbers of pottery sherds; bone awls, often broken, and bones used for other purposes; and a very few inch long triangular notched arrow heads. One celt was found in the Broken Kettle mound and four were taken out of one pit in the Fred Buttman site. No axes, mullers or large flint pieces were found. A rare and characteristic artifact was a lens-shaped, pelished piece of greenstone or quarts, 2-1/2 in. in diameter and about 1 in. thick, probably used in graining, parting.

All this material was scattered through a deposit of different kinds of earth and clay, most of which was apparently taken from the soil in the immediate vicinity but with which was mixed deposits of clay that must have been brought from some distance, and thin layers

and lens-shaped deposits of ashes.

The pot shords of these sites are far and away the distinguishing characteristics of the Mill Creek culture. The smaller notched arrow heads and lens-shaped pieces may also be considered as such. Also various rare odd pieces not found elsewhere.

The absence of mortars, mullers, axes and pipes is noticeable. The grit-tempered pottery was apparently of all sizes from ves-cels having a diameter of 5 to those of 18 inches, with the walls of

corresponding thicknesses up to more than 1/4 inch.

The commonest general type was of vessels of all sizes with globular bowls and rounded bottoms, and necks and rims of many patterns. Necks and rims and some times the upper part of the bowl, were ornamented with innumerable designs of straight incised lines, - parallel, diagonal, cross batched, - forming triangles and other patterns. The bottoms of these pets were seldom other than plain.

At the end of one day's work, of 92 rim and neck shards found.

only two were of the same shape, or pattern of decoration.

Next in abundance were vessels of a light colored ware, from 6 to 10 inches in diameter with lew, outwardly recurved neck. These were ornamented by parallel incised lines running entirely around and covering the entire outside. Some of the finest shords were of this type.

A third type was a strong, fine grained ware, stained black probably slip was used - and polished both inside and out till shone. The only ornamentation was some large indentations in the low re-

curved neck.

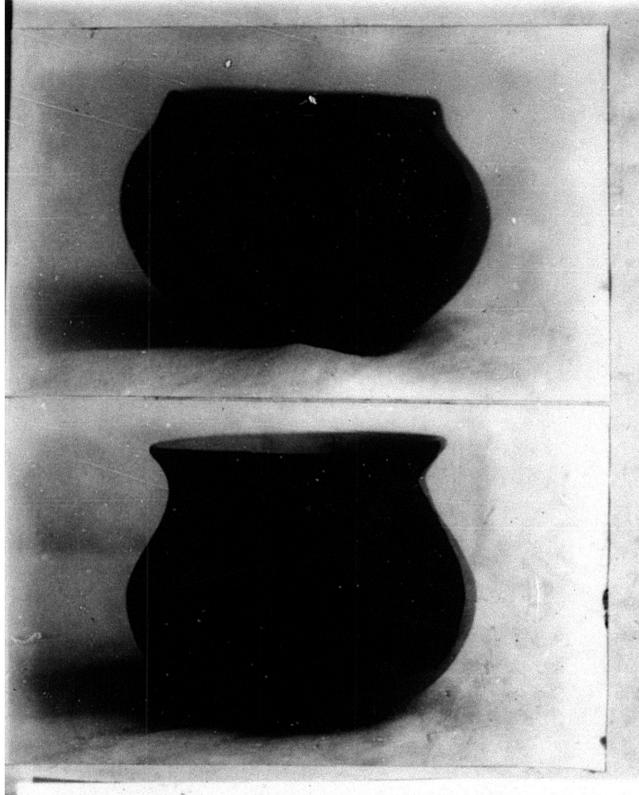
Some small - 3 in. in diameter - shapely vessels of this ware, of which we found a few large pieces, must have been real works of art.

Then there was the milk-pan type of rather coarse but strong material.

Actually bushels of sherds were found in the pits, usually in

greatest abundance in connection with deposits of sahes.

Although in spots there were local evidences of stratification of ashes and clay, these camp sites when considered as a whole were of a homogeneous nature, evidently built up of loads of earth from nearby, thrown down promiscuously, with fewer loads of different kinds of clay brought from remote distances. This was particularly true of



Mill Creek Pottery, restored by the Milwaukee Public Museum, from sherds collected by Rev. F. L. van Voorhis of Sutherland, Obrien County, Ia. The upper from the Braunschweig village site, the lower from the Magnussen site, both on the low terraces in the valley of the Little Sioux - the Braunschweig Site on Sec. 23, T. 94, R. 39, the Magnussen on Sec. 10, T. 93, R. 39. The upper vessel, Van Voorhis says "was a toy pot", and the photo probably shows it about actual size. The lower one was larger. The darker parts of the photo are of the actual sherds, the lighter are the plaster-of-paris restorations. Collected 1934-35.

Collection of Paul Braunschweig, OBrien county-Mill Creek culture. 3 rough grooved manls, 8-10 lbs
50 notched triangular arrow heads-1 in. long

I small irregular mortar

1 greenstone celt - 4 in. long.

2 lens-shaped pieces - door Knobs - I black, I green stone.

3 globular Thibbing stones

I quartite rupking Stones

I piece turtle carapace

5 shell beads

3 scrapers, - I bunt End", I flake, I irregular,

5 triangular large, 2-3 in., arrow heads.

I notched lance head. - 2 in. wide

2 Sye ends of bone meedles

from rim of pot, - 1 in. long.

piece hematite, - 1 in . long .

3 worn bot handles.

3 bone awls.

I bone smoother

part of Ing from rim of pot.

Market Contract of the Contrac

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Collection of M.E. Hill, Obrien Bounky Mill Creek Culture 1 muller -The state of the s

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b in greenstone colts.

1 greenstone maul 6"x 6", with groove.

2 in ball-not grooved.

axe - all round groove.

I inferior granite war club,

ten tropen grante star. Think of the con-

16 notched arrow heads [ >

Diese arrow shaft smoother - 1 in. long.

2' bone ands - I a bird's bill . .

chipped pieces - Knives - 4 in . long

broken Knife (?)

pot handles-fair

4 large pieces pottery, - mill Creek. 

at their accessors the exercise and the term

long bone awl

and the second of the second of the second

the Broken Kettle site. Those of the Little Sioux sites contained

much less clay.

of the bottom lands or terraces. To them earth and clay was carried in and added till, when they were abandoned, those in the Little Sioux valley had a depth of 3 -5 ft., and the Broken Kettle of 8 ft.

Scattered through the entire deposit is the ashes, camp refuse and implements. Though accumulations of ashes were abundant, they appear not to have been in pits as no evidences of walls of them were seen. Except in the East pit dug in the Buitman site, no decayed or burned pieces of logs were found.

When one considers the large amount of work done in building these camps and the other evidences of long continued occupation by a numerous people, the question arises of what disposal was made of their dead. We know that some at least were buried in the not very numerous mounds on the bluff tops - the edge of the plateau, but the resting places of by far the greater number is as yet undiscovered.

At one mile north of the Broken Kettle, on the rounded peak of a high bluff, commanding a wide outlook of the valleys of the Broken Kettle Greek and the Big Sioux and the Missouri rivers, a farmer in

Digging here, at a depth of ten inches, we uncovered an ossuary consisting of bundle burials thrown in "every which way". Under a surface area of roughly 8ft. square, they were packed solidly to a depth of 6 inches - with them we found one broken celt but no pottery or anything that would definitely connect them with the builders of the camp alto in the valley below. No mound had been erected over this ossuary.

Reports were brought to us of the plowing out of parts of skeletons on the upland fields on either side of the Broken Kettle Creek but all were indefinite as to exact location. Nor could we learn of

any mounds on the bluffs.

We were greatly assisted in our investigation of this culture by r. T. D. Kas of Stratford, and by Mr. Gilchrist and Mr. N. L. Stiles of Cherokee. With one exception we were given permission to enter on farms and make survers and excavations whenever and wherever requested.

For permission to excavate we are especially indebted to Mr. Paul Braunschweig, Mr. Lewis Martin, Mr. Magnussen, Mr. Akers, Mr. Phipps,

Mr. Matt Brewster, Mr. S. H. Mosher and Mr. R. L. Little.

On Nov. 12th, we returned again to the Broken Kettle Mound for further excavation, driving directly to Sioux City from Wanken. At this time eleven days were spent in digging a line of pits from the center to the SE, circumference of that site. The object of this work was to determine if there was any stratification of the artifacts yielded by this mound. We found no indications of any change in the culture. The pottery shreds, the implements and general construction of the mound were the same from the lowest level to its surface 8 ft. above. However, we did find somewhat of a concentration of material midway between the bottom and the top.

We wish here to express again our appreciation of the privilege given us by Mr. S. H. Mosher to dig anywhere in the mound which lies

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wholly in his barn yards.

Wednesday, Oct. 17, we spent on route from Glenwood to Strat-ford, Hamilton County, via Highway 734 to W. Hodaway river, then N. on \$71 to Carrell, then E. on #30, the Lincoln Highway, B. on #169 to Dayton and E. by county roads across the Des Moines river to Stratford.

West - SW. and NW. from this place on the bluff tops along the Des Moines, prehistorie Indian mounds are found singly and in groups on nearly every salient point on both sides of the river. Many of them have been destroyed, and others badly damaged, by emisivation, and enterprising amateur diggers have dug in most of the remainder, but their pits were shallow and we were unable to learn of anything being found.

In fields, where were mounds, now under cultivation, small pottery sherds, small scrapers, occasional arrow heads and flakes can be picked up, while on the terraces camp sites have been located none of which yield much in the way of pottery fragments or chipped material. An occasional ax or celt: is found. We were told of one that weighed

9 1bs.

On the 18th, Mr. E. H. Hawbaker very obligingly went with us around to the different promising sites and located others on the map. On Sec. 25, T. 97, R. 27, on top of a spur of the East bluff is the neatly kept Vegers cemetery. Here is buried the first white woman to die in Webster County. Her monument tells us that she "died of exposure at the time of the raid by the Sioux under Inkpaduta" that terminated with the Spirit Lake massacre.

In this cemetery is a string of five round mounds on four of

which are white burials.

We urged Mr. Hawbaker and others with whom we came in contact. to start a move to have an appropriate marker placed on the fifth, the uncocupied one and farthest back from the point of the spur - calling attention to these really fine mounds. This group at least is safe

from the plow and spade.

Next we visited and walked over the Brushy Creek site on the irregular plateau on top of the bluff lying between the valleys of the Des Moines river and Brushy Creek. This is on the NE. of Sec. 15, T. 97, R. 27, on land belonging to the Des Moines River Improvement Land Co. Both the plateau and the slopes and ravines on either side are heavily wooded.

The group consists of 38 linear and 9 round mounds in "strings"

of from 2 to 6 with two round and two linear singles.

The round mounds have elevations of from less than one foot up to two, while the average height of the linears is probably less than 6 inches.

If the mounds of this group compared with those of NE. Iowa in it, with its surroundings and outlook from the top of the 200 ft. high bluff, would be a magnificient group to preserve. This is known as the Brushy Greek Mound Group and is accessable from a public road

about 1/2 mile East.

Afternoon we hunted over the Engstrom camp(?) site on a 20 ft. high terrace on the E. side of the Des Moines, for field finds and dug two large pits but found only a handful of shords and a large scraper made from a boulder flake, with a very few bits of charcoal scattered through the black soil to a depth of 30 in. - certainly very little to indicate anything more than transient occupancy.

A few years ago, we were told, a skeleton was uncovered here by the plew and with it was a complete pot, badly broken up, and a sand-

stone pipe. This site is on Sec. 35 T. 87, R. 36.

One mile west of the Brushy Creek Group is the Hawbaker Group of mounds on the farm belonging to Mr. Wickwire. This group of 12 round and 9 linear mounds is located on the plateau - bluff top -Borth of the Des Moines River on the SW. SE, Sec. 9, and HW. HE. Sec. 16, 2. 67, R. 27. The two most westerly round mounds are separated from the remainder by a small field, but the entire group with the exception of two round mounds on the B. edge of this field, are on level clean pasture with scattering trees. All the round mounds are of goed sise, running from two to four feet high, very symmetrical, and and with three exceptions, not damaged by digging. It is certain that none of the burials have been disturbed.

The linear mounds are very distinct in the closely cropped pasture but have a height of not to exceed 8 in. This lack of height is characteristic of the linear mounds of the Boone - Pt. Dodge area of the Des Moine's River valley, in contrast to those of the Mississippi valley in N. Iowa, which were quite uniformly from 18 to 24 in.

in height.

Because of the level area on which they are located, this group shows up to good advantage; the view of the wooded Des Moines valley is fine; accessability by a dug-way from a public road on the river bottom below, 500 ft. south, would not be difficult.

A detailed survey of this group and its surroundings was made

on the Oct. 19th and 20th.

On Sec. 15, T. 87, R. 27, near its SE. corner, and 100 ft. S. of Mr. Wickwire's house, is a fine round mound just at the edge of the plateau. A deep ravine separates it from the group on the west. The diameter is 50 ft., the height 3 ft.

About 40 rods NW. of this mound in the field was a nearly obliterated round mound in which on the 22nd. we dug an exeft. pit 6 ft.

deep, but found no traces of a burial.

Afternoon surveyed a group of 3 large mounds on SE. Sec. 1. T. 98, R. 28, on edge of plateau, overlooking valley of Des Moines river to West. These mounds lie in a N. and S. string nearly touching each other. The one farthest south has a diameter of 65 ft., and a height of 7 ft. It has been extensively excavated but those with whom we talked thought only three skeletons had been found - no relies. The middle mound is 65 ft. in diameter and 7 ft. high. The one farthest North has a diameter of 50 ft., and a height of 5 ft. The town of Leheigh is one mile south of thi) group.

After survey of this group, looked over a plowed field on NE. Sec. 20, T. 89, R. 27, for field finds. One small piece of pottery and one 2 in. rough knife found. There is a mound 70 ft. in diameter and 5 ft. high in this field 500 ft. south of farm house at end of

road 40 rods E. of gravel pit.

On 23rd., surveyed the Eslick Mound Group. At this point the surface rises from the river bottoms with a gentle slope with three interfening terraces up to the level of the plateau on the south of the Des Moines river.

The first terrace is a well defined river valley terrace 1/4 mi. long and about the same average width. . On it Mr. Walter Eslick has picked up some pottery sherds but nothing else. He says that all of the eighteen axes in his collection have been found on the plateau or on the slopes of the bluffs leading down to the river. A search of this terrace yielded us only a nice bone awl - no pottery.

On the second terrace - glacial - are two round mounds just Bast of the 1/8 Sec. corner on the W. side of the SW. of Sec. 15, T.

87. R. 27.

On the third terrace are three round mounds, all of which have been excavated - one forty years ago and the others in recent years.
Mr. Eslick says that only skeletons were found in one - nothing in the others. To the west of these are 12 linears averaging 137 ft. in length, 15 ft. in width and 1 ft. in height. The entire group lies in the SW. corner of the SW. SW. Sec. 15, T. 87, R. 27. (See Plat)
On the plateau above, on the NE. NE. Sec. 22, are three linears.

To the SW of the Eslick group on the SE. of Sec. 16, and the ME. of Sec. 21. T. 87. R. 27, on plateau E. of Des Moines river, which here runs north, were a number of linear mounds a few of which are

now barely to be made out.

While we were looking over this site, which lies in an open field and pasture, a fine red fox came loping up over the crest of the plateau towards us but as soon as he got our scent turned off to one side -in no great hurry - and down into the valley. One of the men ran out to the edge and had another good look at him.

South of this group on the same section, is a large isolated mound and a group of three, also large, still farther SW, could be seen but were not visited. One of them is known as the Armstrong

mound.

On the Sw. Sec. 22, T. 87, R. 27, is a long mound through which the read cuts. This mound is 8 in. in height. Not far North en the

opposite side of the N. and S. road, is an old church.

On the NE. of Sec. 33, T. 87, R. 27, we were teld, was a quite large group, now cultivated out of existence, and on the N. side and close to the E. and W. road across Sec. 20, is a group of 3 round mounds in a pasture. This group is not far East of the W. line of Sec. 20, and has never been disturbed.

On a salient of the plateau on the E. side of the Des Moines River near the Sec. line between Secs. 3 and 10, T. 86, R. 27, was a group of mounds, two large ones 4 ft. high, of which, though badly mutilated, still remain. The remainder lying in what is now an or-

chard have disappeared under cultivation.

All these mounds and mound groups described, located in what may be called the Boone-Ft. Dodge area of the Des Moines valley,

were, with two exceptions, visited, examined, and surveyed as noted.
We would recommend for preservation: the group of mounds 1 mi. N. of Leheigh, which may be called the Leheigh Mound Group, because of the large size of the individual mounds; the compactness of the group; the scenic outlook; its nearness to a town and to Doliver State Park; and its accessability.

The Hawbaker (Wickwire) Group, because of the number of large well preserved round mounds and of linear mounds characteristic of the area; for its distribution and location on a perfectly level plateau surrounded on three sides by heavily timbered deep ravines, the one on the south being the valley of the Des Moines river; for its scenic outlook; for its fine scattering shade trees; and for its accessability from a public road 500 ft. away.

The Brushy Creek Group, because of the large number and characteristic layout of its linear mounds; for its scenic location; because of its location in the center of a large forested area of rough land suitable of itself for a forest preserve; because of its accessabil-

ity.

We were greatly assisted in locating these groups by Mr. E. H. Hawbaker of Sutherland, for which we desire here to express our appreciation.

On Oct. 25, we drove from Sutherland via Boone - crossing the

Northwestern railread just in time to see the first transcentinental stream lined train pass - to Ames and south through Des Moines to Enoxville. The next morning we returned to the historic "Red Rock" on the Des Moines river.

After Blackhawk was defeated at Bad Axe and his tribe nearly exterminated they were forced to give to the whites a large tract of land in East central Iowa, the west boundary line of this cession began at this "Red Rock of the White Breast".

We learn that "George Harrison, for the government, met here a delegation of the Indians and fixing upon a mound on one of the high red stone ledges north (East) of the river, ran a meridian north and south from thence through the Indian country", for the boundary line.

On the top of the wooded 150 to 200 ft. high bluff, with the river valley on the south and west and deep ravines on the north and

east, are five large mounds, one of which, probably No. 4 (See Plat) just above the Red Rock Ledges at the west end of the bluff, was the initial point of this boundary line survey. Across or near the east end of this bluff ran an old Indian trail.

From the now abandoned quarry at the SW angle of the bluff was taken the "Iewa Stone" in the Washington monument at the nation's capital. A survey of the group and surroundings was made. The parties owning the land will have out this winter the heavy growth of large, mostly elm, timber on the bottom land to the south of the bluff, and it is quite likely that another decade will witness the clearing off of the timber on the bluff top and the consequent destruction of the historic mound.

Because of the historic importance of the mounds; beautiful park like wooded area; fine scenic views; the historic old quarry; and its accessability, immediate steps should be taken to acquire for

the State, the entire Red Rock bluff.

Our next drive was to Burlington, working out of which surveys were made of the Patterson-Cornell and Malchon groups. The Patterson-Cornell group of thirteen sound and one long mounds are located along the bluff top about five miles south of the business center of Burlington and about 1/4 mile from highway No. 61.
Along the bluff tops between Burlington and the mouth of the

Iowa river a distance of eighteen miles, besides the Malchon Group, there are over one hundred mounds - singles and groups of two to four. A day was spent in looking some of these over to see if any should be

considered for preservation, but no surveys were made.

The Malchow Group, twelve miles north of Burlington and one

north of Kingston was surveyed on the 30th of Oct.

This fine group of forty-nine round and ten linear mounds is situated on the bluff top south of the center of Sec. 36, T. 72, R. 2

in Des Moines County.

Because of the large number; size and compactness of the mounds; their undisturbed condition; its park-like level area of scattering trees; magnificent scenic outlook across the wide bottom lands of the Mississippi river to the Illinois bluffs miles away; its accessability from a primary highway; and nearness to one of the large cities of the State, we regard this as far and away the outstanding group of burial mounds in Iowa.

The acquisition of a tract of seventeen or eighteen acres would include the mound group and all the heavily wooded bluff side to the Best at the foot of which runs the highway. The matter of its purchase should be taken up with the Commercial Cluber some other organisation of Burlington.

Preceeding the survey of the Malchow mounds, on October 26th, and 27th, spending the night at Wapello six miles northwest, we made

surveys of the Toolesbore and Hook mound groups.

Just outside the limits of the little old town of Toolsboro on the bluff top north of the opening of the valley of the Iowa River into that of the Mississippi, is a group of Six unusually large fee lows- mounds that have attracted more notice and are better known

to Archaeologists than perhaps any other group in Iowa.
About the year 1875 , Mr. W. H. Pratt and Mr. Charles E. Harrison for the Davenport Academy of Sciences, excavated three or perhaps four of this group which he says consisted of twelve mounds and in one of which-the 3rd. one opened with the help of teams and scrapers, they found 2 curved base effigy (bird) pipes and 4 copper axes. One effigy (bird) pipe and a copper awl were found in the second mound. The finding of curved base pipes and copper celts or axes indicate that these mounds were built by people of the Hopewell culture.

On making a survey of this group, we were able to find but half of the number found by the Pratt party, three lay along the edge of the bluff overlooking the valley of the Mississippi, or as Pratt says,

of the Iowa.

The three most northerly, numbers 4,5 and 6 of our survey, have been almost leveled by excavation. In the next one to the south, No. 3, a cistern has been dug in the center and a root cellar, now used for

a garage, in the southeast side.

Back of the yard surrounding the last house to the north in Teolesboroure numbers 2 and 1, their perimeters touching the edge of the bluff. Number 1, the most southerly of the group, has a diameter of 70 and height of 6 ft. Mound No. 2 has a diameter of 80 and height of 8 ft.

The remaining six mounds of this group as found by Pratt, lay, or at least four of them did, 3/4 milessouth of Toolesboro, all of which were excavated the same year by local parties, using teams and sorapers. From these were taken a copper "axe" (celt); five copper awls; a curved base pipe and a considerable quantity of broken pettery.

Mounds No. 1 and 2, are intact except for shallow pits less than

one foot deep in the center.

Because of their history; the culture which they represent; their size; scenic outlook; and their location right on a public road, every effort should be made to preserve the remaining two fine mounds of this group. They are located on or near the ME corner of Sec. lo. T. 73, R. 2.

The Hook Group of sixty nine low burial mounds, only nine of which have a height of 24 in. or over, scattered thickly over eight acres of level plateau or bluff top about one mile north of the Toolesboro Group. A field 24 rods wide separates it from the public road. The area occupied is in pasture with scattering shade trees and only one mound has been excavated.

About one mile to the north on the opposite side of the same road which here runs along the edge of the bluff, is a similar group of about the same number of mounds located on a piece of brushy ground

from which the timber was out some years ago.

Pratt says that at about one-fourth mile northwest of the Toolesboro mounds, was an embankment enclosing fifteen to twenty acres, of an octagonal form on which many small triangular unnotched arrow heads, scrapers and fragments of shell-tempered pottery, were found by his party on this site.

From Wapello we drove to Mt. Vernon via Muscatine and Davenport, at which latter place Mr. Putnam kindly showed us the pipes and axes taken from the Toolesboro mounds.

On Nov. 1st, we surveyed the Burge mounds, a procession of burial tumuli lying along the peak of an elongated, rounded glacial hill along the edge of the bottom lands and on the north side of the Cedar River.

T. 82 R. 5. about 3 miles south-Located on 300. west of Mt. Vernon. Highway No. 261 crosses the Cedar about half a mile to the south and "The Palisades" State Park is up that river

three and a half miles by road.

This is a fine undisturbed group, ranging in diameter from 20 to 40 ft., and in height from 8 to 36 inches. The hill now is, and probably will remain a closely cropped pasture with many scattering trees of several species - white oak, basswood, sugar maple. There is a fine outlook over the surrounding fields and the river valley.

Because of its nearness to the Palisades - within a quarter of a mile of a road which could be graveled, making a short out from #261 to the park, this group should be made an annex to the larger

Travelers north on #261, desiring to see the Palisades, could take this short cut and visit the mounds as well as the park, returning by a direct good hard surfaced road to #261 at Mt. Vernon, or, if after survey of Burge Mound Group, we returned home via Make-

queta and Dubuque for election.

After election worked on plats while field workers visited sites on Upper Iowa river where excavations were made and completed some unfinished restoration work.

From Nov. 7th to loth, inclusive, we worked on survey of effigy mound group, north of Marquette, returning to Waukon for over night.

A very complete survey was made of this group and some time spent in

McGregor in an effort to get an organised effort started to raise

funds to purchase this site.

This group of ten "bear", and three "bird" effigy mounds, with two linears, is located on the bluff top over 300 feet above and onefourth mile west of the Mississippi River, surrounded by precipitous bluffs separated by deep heavily wooded ravines. It is located on Government Lot 3, Sec. 3, T. 95, R. 3, now controlled by a trust under the direction of the court, and Government Lot 4 adjoining, in the same section, belonging to Mr. Lew Liebhardt of Denver, Colorado. Let 4 is covered with a heavy growth of white and red oak, sugar maple, basswood, white birch, poplar, ironwood, red cedar and many species of shrubs, as is also the rougher part of Lot 3.

The north part of the group in Lot 3 lies on a 70 ft. bigh

The north part of the group, in Lot 3, lies on a 70 ft. high spur of St. Peter sandstone running out northward on to the shord of Oneote terrace, from the higher ground to the south. The north end and east side of this spur is almost vertical, the north being covered with white birch underneath which in perpetual shade, is a luxuriant growth of ferns and mosses. The Old Military trail to Pt. Atkinson, coming up a steep ravine from the river, winds around this spur. my and many a six mule drawn army wagon loaded with supplies for the fort has passed over this trail when all about was yet "Indian country".

From the sandstone spur is a procession of the great earthen animals up the gentle wooded slope on Lot 4, almost to the general level of the upland peneplain, and just where the old trail leaves. the let are two of the flying birds - night-hawks perhaps.

The bear mounds are from seventy-five to one hundred feet in length, an average of 87 feet, with an average body width of 35 feet and a height of from two to three feet. The hind legs show a tendency to curve forward, quite decided in some cases, but the front ones are straight. Both decrease in height almost to the vanishing point at the (feet) end. The average length is 35 feet for the hind and 34 feet for the front, with a width next to the body of 24 feet for the front and 25 feet for the hind.

The three flying bird effigies have an average length of head, body and tail - a conventional form - of 18 feet. The extended rapier wings have an average distance from point to point of 84 feet. The

height at the junction of wings and body is 18 inches.

All the bears lie on the right side and all are headed in a

southerly direction. The birds also are flying south.

The two linear earthworks at the north end with lengths of 198 and 92 feet, respectively, a width of 19 feet, and height of 2 feet, lie in a northwest - southeast direction along the ridge of the spur.

With one trifling recent exception, no excavating has been done

in these mounds, they are intact.

Twenty-six acres from the East part of Lot 3, extending from the west side of the sandstone spur, East to the river, including all the mounds on that lot and the Old Military Road, can be purchased for \$25.00 per acre. A move is now on foot to raise the money to buy this. What the Liebhardt land can be bought for, cannot be learned. An effort will be made to induce the owners to donate it to the State.

The holders of Lot 5, desire to dispose of the property. Should some enterprising farmer buy this land, one of the first things he would be likely to do would be to plow up the top of the sandstone hill which is good corn land and the mounds on that would be destroyed. The State of Iowa cannot afford to let this group, the most important

in the State, go that way.

On November 12th, we left Waukon again to do additional excavating at the Broken Kettle Mound, the purpose of which was to determine if the culture of the lower strata, next to the natural flood plain surface, contained the same unlture as those at the top of the mound six or seven feet down. A practically continuous trench five to seven feet wide was dug for the full depth of the mound earth from the center to eircumference in the southeast part of the mound, but no difference was found in the culture. This work was completed on the 23rd, and on the 25th we made a survey of the Caldwell mounds.

This compact group of eleven linear mounds is located twelve miles southeast of lows Falls on the SE. Sec. 6, T. 88, R. 19, on the bluff top south of the Iowa river, in Hardin County. This fine group of all linear well grassed over mounds on perfectly

level pasture with scattering trees and some brush, in lenghts of from 66 to 113 feet, and heights of from 18 to 22 inches, with the 150 ft. deep valley of the Iowa river on the north and deep ravines East and West, presents an attractive nearby appearance and a fine scenic outlook.

A public road lies 1/4 mile south. We were unable to get either a price or option. The owner is Mr. Frank Sheldon, Bldors,

Iowa.

After completing this survey, we drove to Waukon, reaching there the same evening, completing our state wide work.

and anyone had been seen

Altogether surveys were made of twenty-one Mound Groups:

Lyon County Blood Run Martin Johnson Caulina O'Brien Lewis Martin H111 Hebb Complete and a law recommendation of the Patterson Quimby Cherokee " Woodbury Cross Broken Kettle Assessment of the assessment Leheigh Webster Hawbaker Brushy Creek THE PERSON ASSETS THAT OF Eslich Caldwell Hardin Red Rook Marion Pattorson-Cornell Des Moines an explicit law time a one Malchen Toolesboro Louisa Hook Burge Linn Jennings-Liebbardt Clayton

Of these, we have selected because of their location in different parts of the State; to show the characteristics of mound groups in the particular locality; compactness and number of mounds in group; size of individual mounds; state of preservation; character of area on which located and surroundings; scenic outlook; and accessability, we have selected the following which we recommend for acquisition by the State in the order named: 1 Jennings - Liebhardt

All the second of the second o

Malohow

Blood Run

Toolesboro Red Rook

Brushy Creek

Burge 6. Caldwell

Leheigh

10 Wittrock Enclosed area.

The Fish Farm Group in Allamakee County has been purchased and is now held in trust for donation to the State. The Turkey River Group in Clayton County has also been purchased by parties in Dubuque, we understand also for donation to the State. The owners of the Toolesboro group listed above, also contemplate a gift of the same to the State.

Except in one instance, that of the Wittrock area, we have been unable to get definite prices on sites quoted to us by the owners, or to get options. In the case of several the owners are

non-resident.

This fine group of fifty-two large burial mounds scattered irregularly for half a mile along the crest of the terrace spur, with the valley of the Big Sioux and bordering Dakota bluffs on the West, and that of Blood Run and the Iowa hills on the East, must have been before the white men came, without a peer in Iowa. Even now, with a part under cultivation and some of its mounds mutilated by relic hunters, it still stands unequaled in the State as an imposing monument to an unknown people, of whose history we in all probability will never know more than that these heaps of earth cover all that remains of them.

Briefly the following recommend this group for preservation: large group; large mounds; large area; some mutilated, but with three or four exceptions, easily restored; sightly location along crest of 60-70 ft. high terrace between two valleys; fine scenic outlook; only worth while group of prehistoric earthworks in north-

western Iowa.

Between 60 and 70 acres of the terrace spur should be acquired. Only the railroad right of way, to cross which an under crossing could be made, lies between the mound area and a highway.

Unable to get prices for which it could be bought, or options.

There are four different owners.

If entire area were fenced and put into pasturage, no maintenance, except to guard against excavations, required.

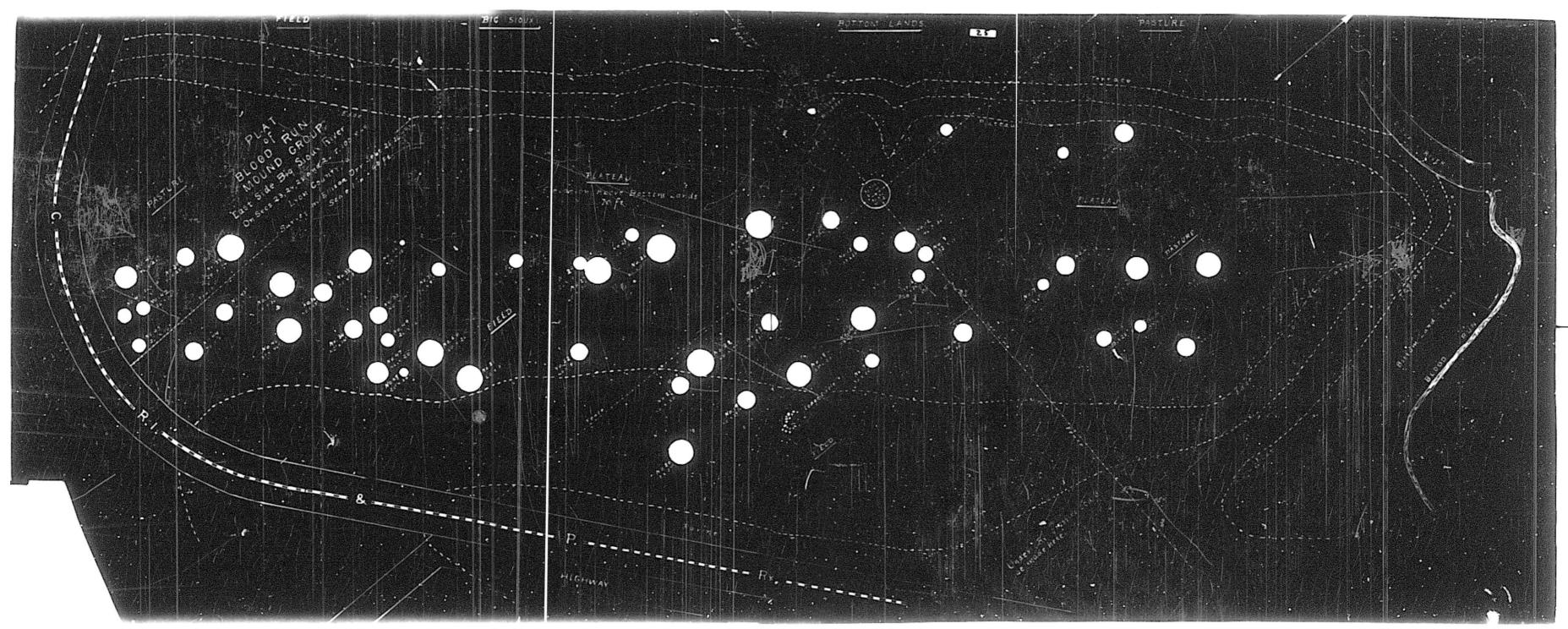
It is important that immediate steps be taken to acquire this

mound group. The sooner cultivation is stopped, the better.

If made a preserve, it would have a recreational as well as historic and scenic value. People of the prairies of Dakota as well as Iowa, resort to the Big Sioux, where there is native timber, for pienics and fishing. Often it is difficult to get permission to go in on private lands.

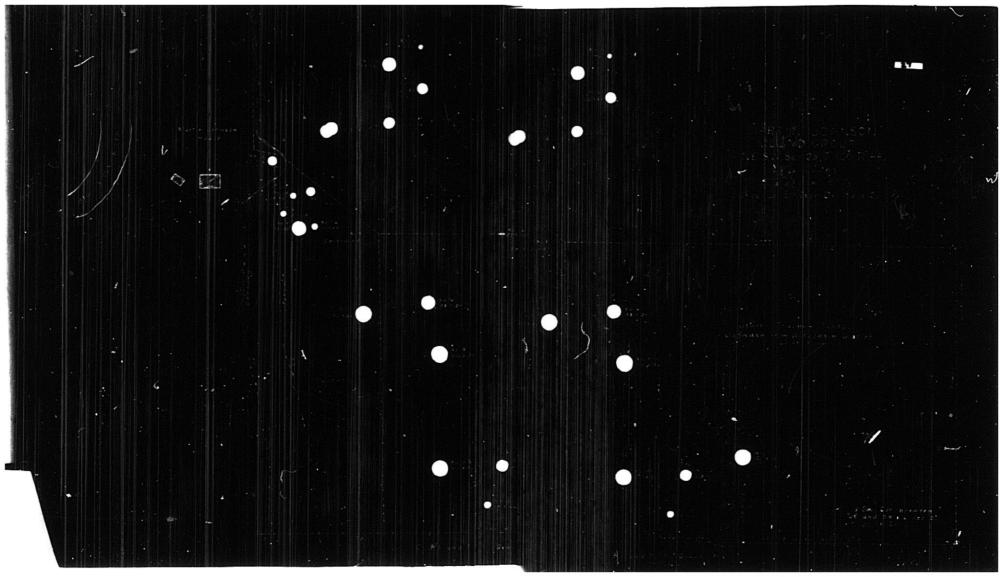
BLOOD RUN MOUND GROUP

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# Martin Johnson Mound Group





## See Retords of the Past" Vol. 1x. Page 209

The Broken Esttle Hound which has received considerable newspaper notoriety, is a heap of camp refuse and earth located in the south side and at a bend of Broken Esttle Creek, where this stream, coming from the north, makes an abrupt turn to the west on the farm belonging to Mr.S. H. Mosher, and near the 1/4 section corner on the west line of Section 5, Township 90, Range 48, West off the 5th P. M., in Remeast Township, Plymouth County, ship, Plymouth County, Iowa.

Broken Kettle Creek here flows in a self eroded ditch in its flood plain, forty feet wide at the top and twelve feet deep - a stream ten feet wide and a foot deep. Its flood plain, with the first and only terrace, is something better than a half mile

On either side the picturesque, loss hills covered with short prairie grass, rise in jumbled heaps to a height of one

hundred and fifty or more feet. The winding stream, fringed with box elder, elm and cottonwood trees, empties into the Big Sioux river a mile to the Southwest, along which is a very considerable growth of bottom-land timber.

With its undoubted abundance of game - buffalo, elk, deer and grouse on the prairies, wild turkeys along the timber fringed streams, and fish in the nearby river, this place must have formed a very attractive gathering place and habitation for a prehistorie people. two

The average diameter of the mound may be said to be there

hundred feet and its height at the center, eight feet.

Into its northwest part the creek has out out a section
like a hugh piece of ple, its apex reaching almost to the center of the mound, or, possibly it was built, or rather accumulated, as we now see it.

On it for many years has stood a much dilapidated cow and horse barn on the site of an older one. As the mound shows no wearing away around this barn it has probably been reduced but little in height, but the tramping of cattle has undoubtedly spread the sides out making the apparent diameter somewhat greater.

The discovery years ago that this mound contained "Indian Relice" was followed by desultory digging and considerable pottery should and some other material was found and carried away, of which Morningside College at Sioux City, secured a part.

Into the northeast part, Mr. Mosher dug a "pin" sile some three or four years ago and in the excavated earth was found much broken grit-tempered pottery, animal bones - principally of the buffalo - bone awls and a few other implements of bone, red stone used for paint, and rarely other artifacts , the absence of chipped material and of celts, ares or manls , was noticeable.

A nearby farmer, a life-long resident, told us that a Mr. --- secured an appropriation by the legislature or from other State source, to explore the mound and that with a force of laborers "he dug a trench entirely across the mound through the barn". Dr. Keyes a few years ago dug a little in the mound and secured some additional shords from Mr. Mosher in addition to what he himself may have found.

On Sept. 27th, and 28th, and again on Oct. 12th, and 13th, we with the help of two field workers. Fred Orr and Harrison Toney, dug a total of five pits, 5 by 5 feet, in the east part of the mound at about fifty feet from the center, to a depth of six feet.

The material encountered was principally black bottom land soil with which was mixed streaks and lens-shaped layers of ashes and areas of ash-colored soil; an occasional thin layer of yellow or greenish yellow clay, som running out horisontally, in which was found at any level, broken buffalo bones; a few bones and teeth of elk; a few bones of birds and fish scales; many pottery shreds of grit-tempered material including many pieces of necks and rims, decorated with patterns made in incised wholly straight lines in great variety.

Quite a few bone awls and bone implements for making the incised lines on pottery, as also a few that appear to have been used for rubbing or smoothing pottery, were found, in addition to which were some odd or unique pieces, as tips for ends of

bows, a lens shaped object, a large celt and others.

The pottery ranged in size from small nearly globular vessels less than four inches in diameter of fine clay with a scarcely discernable tempering of very fine sand, baked very hard, and the surface usually black and highly polished, up to those that, judging from size and shape of shreds, must have been eighteen inches in diameter. The bodies, necks and rims of these larger vessels were of an endless variety of shapes, the bodies usually being without decoration.

The lower part of the larger undecorated bodies appears to have usually approached the hemispherical in shape with a shoulder bendingquite abruptly inward to connect with the neck. Heek and rims of these were of an almost endless variety of

patterns, usually decorated.

One type of decoration of which we found a number of samples, consisted of parallel incised lines 1/16 to 1/8 inch apart running entirely around the neck on which had been superimposed two to four diagonal incised straight parallel lines running diagonally from the rim down to the base of the neck and then up again, forming a sig-sag pattern entirely around it.

and then up again, forming a sig-sag pattern entirely around it.

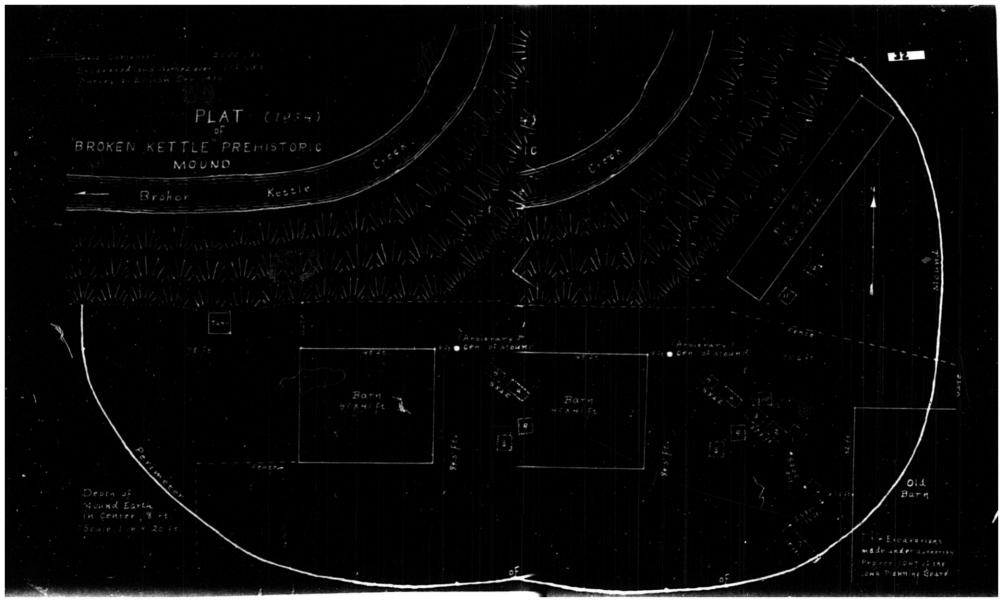
Another type of vessel of which we found a sufficient
number of shreds to establish definitely the shape, had a globular body with a low turned-out neck surrounding a rather small
orifice as compared with the other type of vessel. Except for
a small part of the bottom, this type was completely decorated
with closely parallel incised lines running entirely around body
and neck.

Still another type of vessel, without decoration was shaped like a wash basin with a flattened bottom. Of this type we secured one whole vessel except for a small triangular piece broken out of one side, and about one-fourth of another.

The wholly decorated type of pottery is also characteristic of the Mill Creek culture, and other types of form and decoration

appear to be duplicated at both localities. Small conventionalised heads of animals and birds, broken off or attached to the rims of pots for ornament or for handles are found at both localities.

Then the highly polished, lens-shaped, objects of diorite, the prevalence of bone implements and the almost entire absence of chipped flint - except a few small triangular notched arrowheads, seem to indicate that the people that occupied the camp sites on the Little Sioux and its tributaries between Lynn Grove and a point some ten miles southwest of Cherokee, were one and the same as those that built the Broken Kettle Hound.



#### Red Rock Mound Group.

Group of five good mounds, somewhat mutilated but can be restored.

The best reason for acquiring this group and surrounding area, is its historical value. After the Blackhawk war, the Sacs and Foxes were forced to give up a large tract of land in East central Iowa, extending from the Mississippi River west to "The Red Rock of the White Breast" on the Des Moines River. In 1845, George Harrison, for the government, met the Indians at this rook, and after selecting a point "near the summit of the bluff and within some fifty feet of the brink of the cliff". "established the starting point of the 'Boundary Line ' by erecting a piece of timber 12 inches nound of earth and soil 10 feet square at the base and 8 feet high on this timber placed a cross-piece - the arms of which point north and south". Two bearing (witness) trees were also marked. From this initial point he ran a meridian north and south for the west boundary line of the tract.

From the old quarry at the SW angle of the bluff was taken the

Iowa Stone in the Washington monument.

The whole bluff top, surrounded, except at the northeast corner, by deep ravines and the valley of the Des Moines river, is an open park on which are still standing some of the "primeval forest".

The scenic outlook, the historical background together with the fine park-like area, and accessability from a State road, make it very desirable that the State should acquire at least a twenty acre area. and right of way from public road.

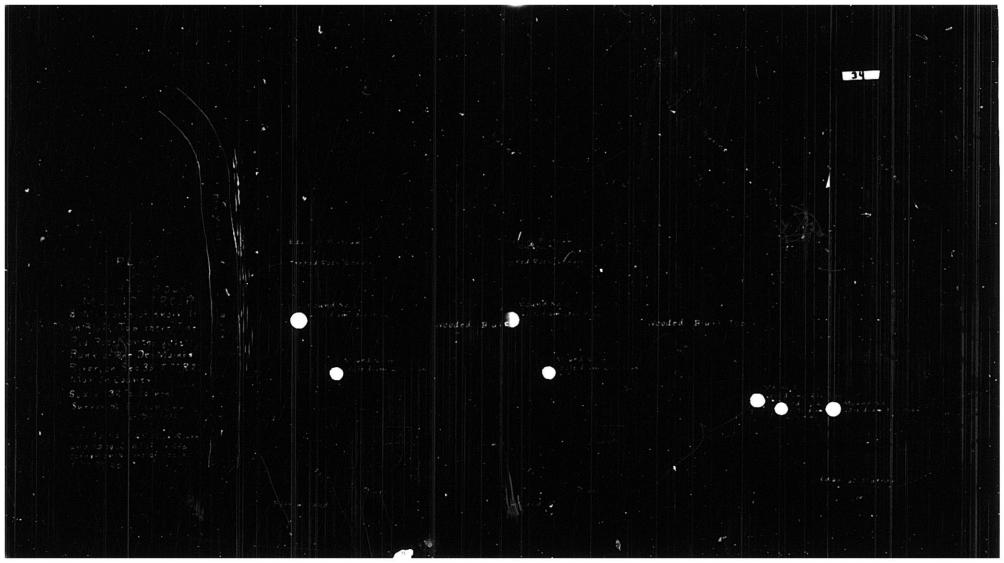
in old trail which afterwards became a much traveled stage road and over which supplies were hauled and dragoons marched to Fort Des Moines - still plainly to be traced - would cross this twenty acre

area.

It should be possible to buy this for from \$800.00 to \$1000.00.

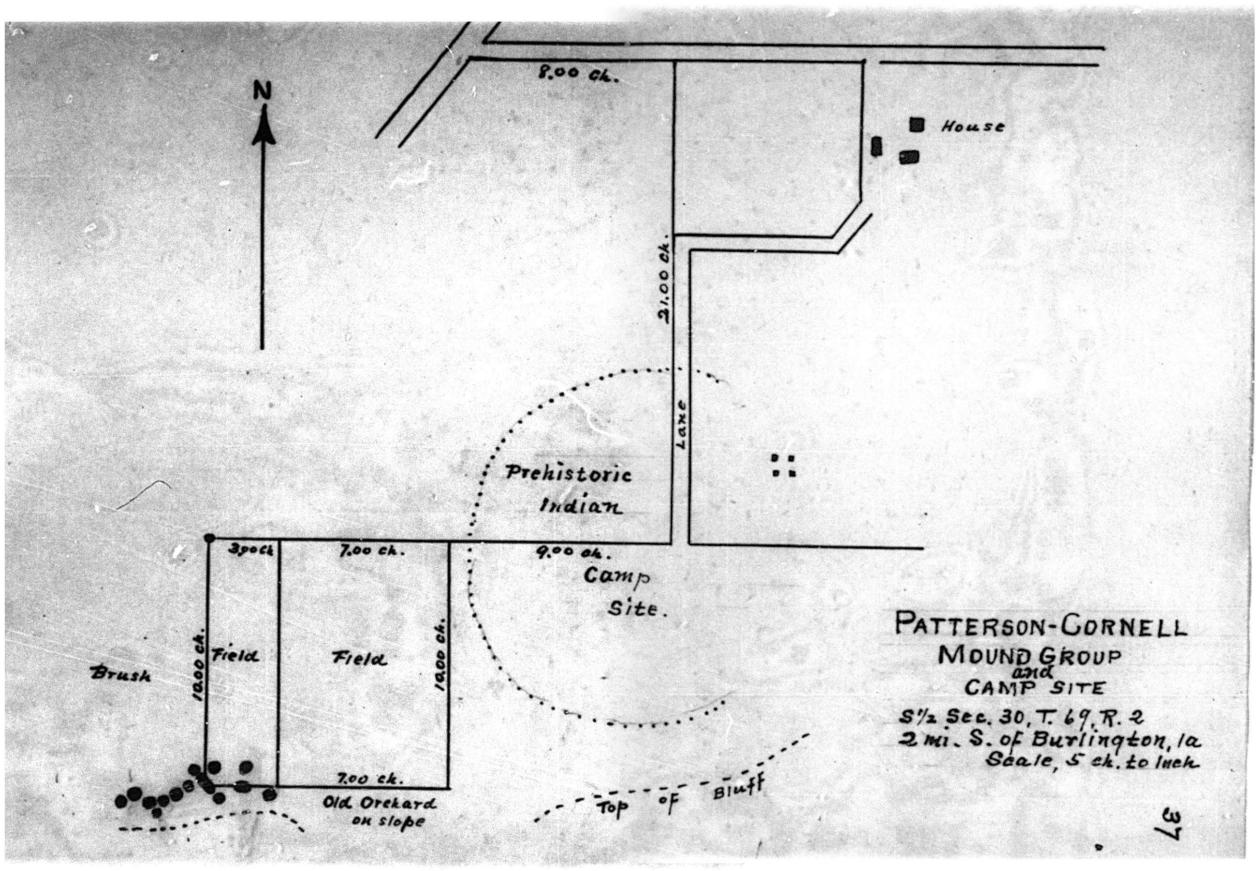
#### Dimensions of Mounds of Red Rock Group.

Number of Mound	Diameter	Height
	60 ft.	36 inches
	50 "	24 "
5	60	24 "
<b>.</b>	60 T .	24 "
5	60 "	36 "



## Patterson-Cornell Mound Group

Sarvey by Ellison Orr . Oct. 29 1934. Brush - Paseure



#### The Malchow Mound Group.

Situated on the level top of a promontory in the long line of bluffs running north and south to the limit of visibility, bounding the corn fields of the wide and rich bottom lands of the Mississippi, is the outstanding group of burial tumuli in Iows. - the Malchow Mound Group.

The owner of the farm on which they lie, Mr. Lewis H. Malchow, has cherished and protected these burial places of an ancient people to whom the rugged hills with the prairies and groves stretching far to the west, and across the wide valley to the misty outline of the land toward the rising sun, was home, and now they stand, complete and undisturbed, an ever enduring monument to those that built them.

Lying in a compact group - often overlapping each other - along the flattened crest of a narrow divide between the valley of the big river and a deep lateral ravine, that runs to a point at its south end, and occupying around nine acres in area, the symmetrically rounded grassy heaps, some higher than a tall man, there among the scattering shade trees with wooded valleys to east and west, present a sight well

worth going far to see.

The wood thrush sings down on the forested bluff side, a tanager flashes through the trees, a blue jay screams or a crow winging his way far overhead calls down. A downy woodpecker is at work on a dead limb. we glimpse a squirrel hunting for acorns, or the curious cattle come up to look over the strangers. It is quiet and peaceful here where rest these unknown people. Then we look far over the beautiful land that, teeming with game and all else that they could desire, was once theirs, and try to envision them as they lived and went about their daily occupations. Perhaps the same desires, the same passions, the same strivings in a measure motivated them as they do us. But we can not know, they left us no record, even no tradition, only the silent heaps around us are left.

Truly this is a historical spot. It should be acquired and protested by the State for the use and benefit of the people for all time. Twenty sores would include, besides the mound area, the wooded bluff side down to the public highway at its foot, and up which a hill side

road could be made to its top.

Its transfer would detract nothing from the value of the farm as a farm, - only a few less acres - and the owner is desirous of having the group become the property of the State. That he can afford to donate it is doubtful, but we believe that he would part with it for

a very reasonable price.

If either the Rotary, the Kiwanis or Lyon. Olubs, or the Burlington Chamber of Commerce, would take up the matter of raising by contribution the necessary amount to buy, we believe it could be done easily. \$5.00 each from two hundred business men of the city, we believe would buy this acreage which we have named - all that is necessary or even desirable.

Attached is a plat made from a detailed survey of the mounds and a reconnoissance survey of the surrounding area , and also a list giv-

ing the diameters.

Malchow Mound Group



#### Burne Mound Group.

A typical group of mounds of the area - no other group recommended in the valley of the Cedar River; well preserved condi-tion; good size of group; proximity to State Park - The Palisades, 5-1/2 miles; nearness to large city, Cedar Rapids, about twelve miles NW. and to State highway, 1/2 mile; nearness to College - 3 miles; easy accessability; good scenic outlook.

The land is now in pasture with scattering shade trees - has

never been in cultivation.

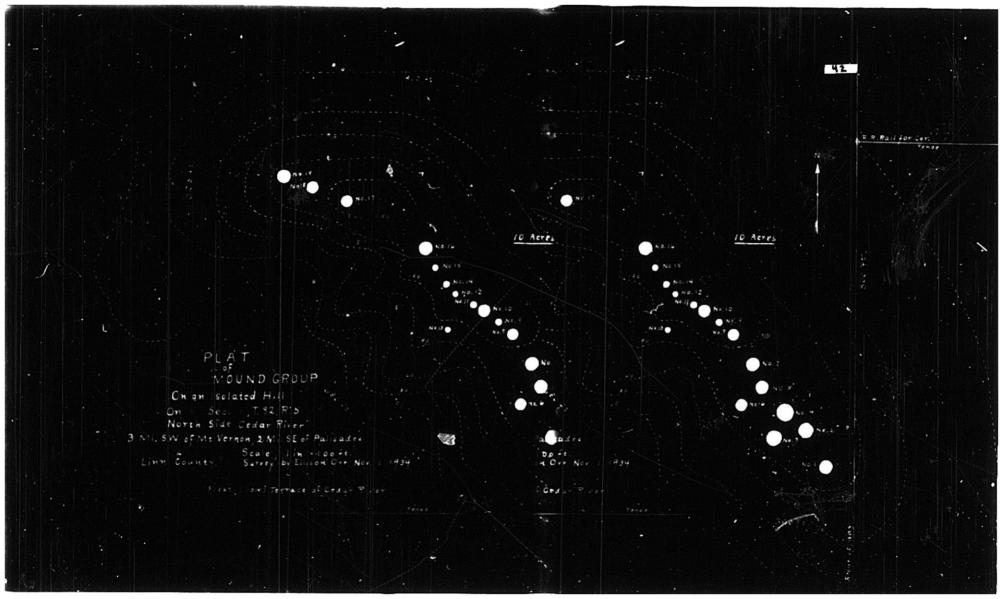
The entire hill, the area of which is approximately 10 A. as shown on plat in orayon lines, should be the least acreage acquired to which should be added right of way for access 3 to public road, approximately 1/4 mile.
Owner will not permit excavation.

Unable to get any information as to value or possibility of acquiring or securing long time option. Unable to give an appraised value.

If left as above, will require practically no maintenance to preserve mounds and land.

### Dimensions of Mounds of the Burge Group.

Mound No.	Diameter 40ft. 407 36" 46" 46" 40" 30" 40" 30" 20" 36" 20" 15" 20" 40" 30" 36" 20" 36" 20" 36" 30" 30"	Height 36 inches
5	eoit.	36 inches
8	•0	56 P
	26"	24 "
5	465	36 "
	40"	36 "
2	<b>20</b> **	18 "
	40"	24 " 36 " 36 " 18 " 20 "
	<b>30</b> "	10 "
	20*	10 "
	36"	24 "
	20"	8 "
12	16"	8 "
13	16*	8 "
114	20"	
15	201	10 .
16	467	10 1
17	901	80 "
18	***	20 "
10 11 12 13 14 15 16 17	2.	12 " 10 " 30 " 20 " 20 "
	•••	24 "



#### The Caldwell Mound Group

These mounds located on the level bluff top south of the Iowa river about twelve miles southeast of Iowa Falls, on ME. Sec. 6, eleven T. 88, R. 19, in Hardin County, form a compact group of nineteen un-usually good, well preserved linears. The average height is over 20 in. Plat is attached.

North is the 200 ft. deep valley of the Iowa river, while on

the cast and west are deep tributary ravines.

All of the SW. HB. Sec. 6, south of the Iowa river approximately 25 acres together with a right of way to the public road one-fourth

mile south, should be purchased.

Because this is the only good group in North central Iowa, and near to two large towns, from which it can be reached by a public road now graveled to within one mile, and because of scenic beauty of surrounding country and easy accessability, this is a very desirable group to acquire. At present the area is in closely cropped pasture with some brush and scattering small trees.

Except to grade a right of way - about one day's work with a tractor and grader outfit, fence the arec and post signs, no other immediate expenses would be necessary. The only maintenance expense

would be to make provision to keep the lot closely pastured.

We have been unable to get a reply from the owner to our request for information as to possibility of purchasing or price.

It is entirely possible that local interest in the matter of acquiring this group could be worked up in Iowa Falls or Eldora, or both.

### Caldwell Group of Linear Mounds.

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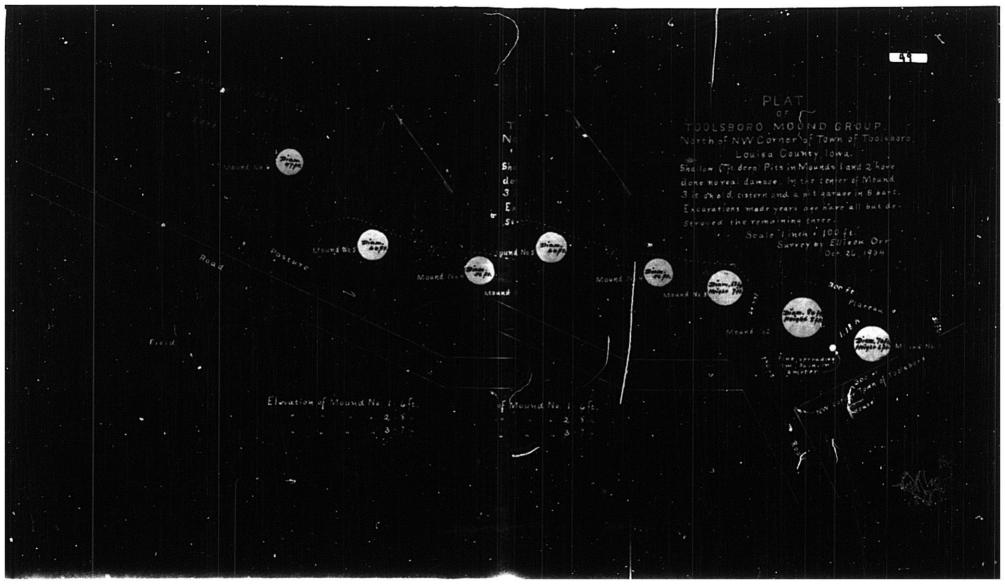
#### The Toolesboro Mound Group.

Originally twelve mounds - eight above Toolesboro, four below. Seven of them, including the four below the town, excavated and not restored, by members of Davenport Academy of Sciences and other parties and in which curved base pipes and copper celts were found, establishing their erection by people of the Hopewell culture, the center of which was Ohio.

Because of this historical association; size; excellent state of preservation; smallness of area to be maintained; situation along-side a public road which 400 ft. away connects with primary road along Mississippi river valley from Burlington to Wapello; and because of fine seemic outlook, and because of its historical association, the two remaining practically undisturbed mounds, No. 1 and 2, should be preserved. Not to exceed two acres along the bluffs edge and adjoining the highway need be acquired, this might include No. 3 if desired.

A part of this Mound group will very probably be presented to the State in the near future by the owners. Now in open commons.

If acquired should be fenced and some one found in village to keep moved and see that mounds are not dug into by relic hunters. Bo other maintenance required.



Hook Mound Group

		Mississippi River Battoms  Tool of But	31
HOOK MOUND GROUP  On See 33 T74 R2  [We Miles North of		Seece wooded Buff	
Footsboro/ Louisa Co  +Scale lin : 99 Ft  Sirie & Elisan Orr  Ver 26 27 984	Edic.		Fareau S O
		Passive	
	Field		

#### The Wittrock Camp Site.

In the southeast corner of O'Brien, the northwest corner of Buena Vista and north and south through the center of Cherokee counties, along and in the valleys of the Little Sioux, and its tributary streams, Naterman and Mill Creeks, are a number of rather unusual camp sites. These consist of an accumulation of camp refuse mixed with earth from the surrounding nearby, but sometimes distant, natural surface. These sites are roughly circular and have diameters of up to four hundred feet. It is quite likely that they were originally started on "high points" on the bottom lands and terraces, on which during long occupancy, sometimes as much as five feet - and in the Broken Kettle Mound twelve miles north of Sioux City, eight feet of "mound earth" and refuse has been built up.

Shetrone in his book, "The Mound Builders", on page 184, offers what is probably the correct explanation of how this great accumula-

tion of earth is made. He says:

"Instead of collecting and removing the garbage, they prefer
the much more laborious method, when the accumulation becomes so great
as to be unbearably obnexious, of carrying earth and burying the debris where it lies scattered about. As a result of this practice it is
apparent that the level of the village is raised at some points as much
as several feet above the original surface of the ground".
Because of this custom mound sites of this type are righ in material
showing the culture of the people that made them.

It is surmised that the sites in the area named were possibly surrounded by an embankment supporting a palisade. But as all these with an exception of one, are now in cultivated fields, all traces of an embankment, if there was one, have been destroyed, and no remnants

of palisade posts have been encountered in making excavations.

The one exception is the Wittrock site on the northwest quarter of Section 11, T. 94, R. 39, O'Brien County. This is a roughly rectangular area surrounded by an embankment with a shallow ditch on the outside from which the earth used to build it was evidently obtained. The tep of the embankment has now an elevation of from two to three feet above the bottom of the ditch.

This site alongside the W. line of Sec. 11 and its 3W corner out off from Waterman Creek, at the time of our visit, Oct. 19, 1934, was covered with a dense growth of grass, prairie flowers and weeds. Courses and distances around the top of the embankment were run and levels taken at the corners, but it was impossible to make a survey of the interior which is said to be covered with hut pits.

We had hopes to go back later in the fall and burn over the area

but because of continued wet weather, were not able to do it.

Mr. Wittrock, the owner, is asking \$1500.00 for five acres and a right of way along the west line of Sec. 11, to the northwest corner from which a right of way, 12.23 ch. North to the highway would have to be purchased from another party. This price we consider prohibitive.

#### The Reliek Mound Group.

This Group lies on two terraces of the glacial drift into which the Des Moines River has out its valley, and on the south side of that stream. At the point where they are found the surface of the blaff-side rises from the river bettem lands with a gentle slope with three intervening terraces up to the level of the general upland plateau.

The levest terrace is a well defined river valley terrace 1/4 mile long and about the same average width. On it Mr. Walter Reliek has picked up some pottery shords but nothing else. He says that all the eighteen axes in his collection have been found on the plateau or on the slopes of the bluffs leading down to the River - field finds.

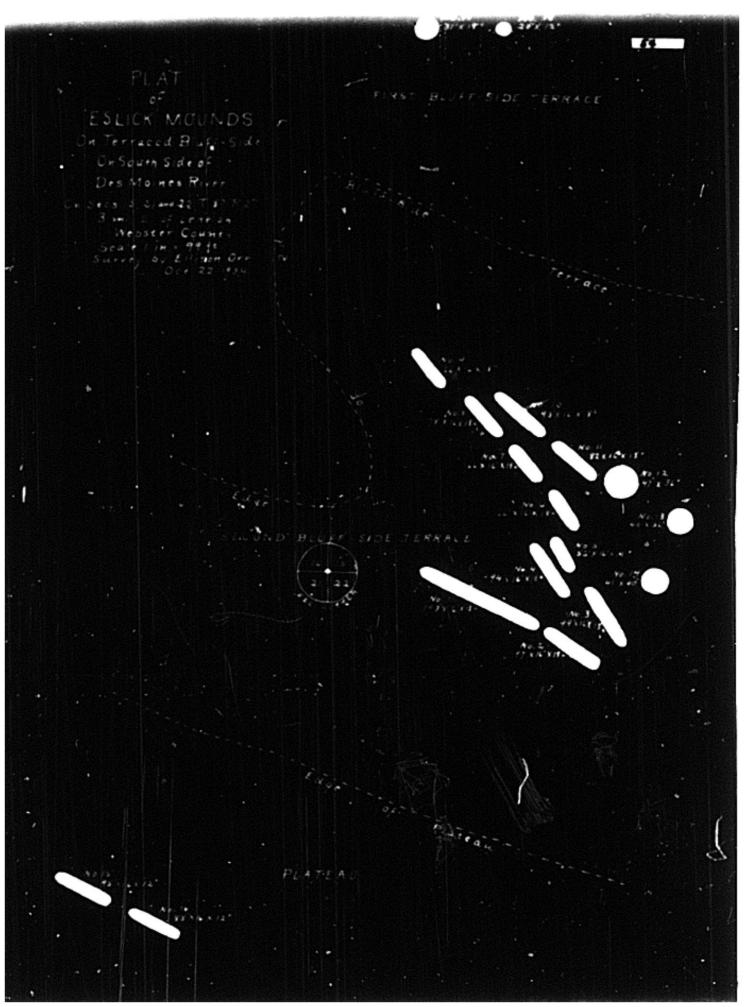
On the second terrace - glacial - are two round mounds just Reat of the 1/8 Sec. corner on the W. side of the SW. of Sec. 15, 7. 87, R.

On the third terrace are three round mounds, all of which have been badly mutilated - one forty years ago, and the others in recent years. Mr. Relick says, that only skeletons were found in one - noth-ing in the others.

To the west of those are twelve unusually good, undisturbed linear mounds, averaging 187 ft. in length, 15 ft. in width and 1 ft. in

The entire group lies in the SW corner of the SW. Sw. Sec. 15, and EW. EW. Sec. 22, 7. 67, R. 27.

On the plateau above and to the southwest, on the HE. HE., Sec. 22, are three low linears. Access to this group would be from the highway around 1/4 mile Southeast.



Survey of Witrock Earthwork NW NW 3cc. 11, T. 94, R. 39 W.

Stake #1 at cen. of SE cor - top of embankment .33 ch E to cen of ditch

N 11-30' W 2.78 ch. (var 5'E) to Stake #2 at cen. of top of embankment

at HE cor.

I to cen. of ditch .20 ch .24 ch

1.65ch. to stake #3 in cen. of top of embankment at angle

N to cen. of ditch .25 ch.

.85 ch. to stake #4 in cen. of top of embankment at NW cor.

3 80 W to cen. of ditch .32 ch.

natural level .45 edge of terrace 1.00 ch.

.28 N to cen. of ditch

3-1/2 E 1.02 ch. to Stake #5 in cen. of top of embankment W to cen of ditch .38 ch. (From here no ditck - natural slope from top of embank-

> ment to edge of torrace and down to its foot.) .76 ch. to Stake #6 in cen. of top of embankment

at angle

SW to edge of terrace.30 ch.
1.24 chs. to Stake #7 at SW cor in cen. of top of embankment

W to foot of embankment and edge of terrace .26 ch 3 to cen. of ditch

1.61 to Stake #1 N 72 E

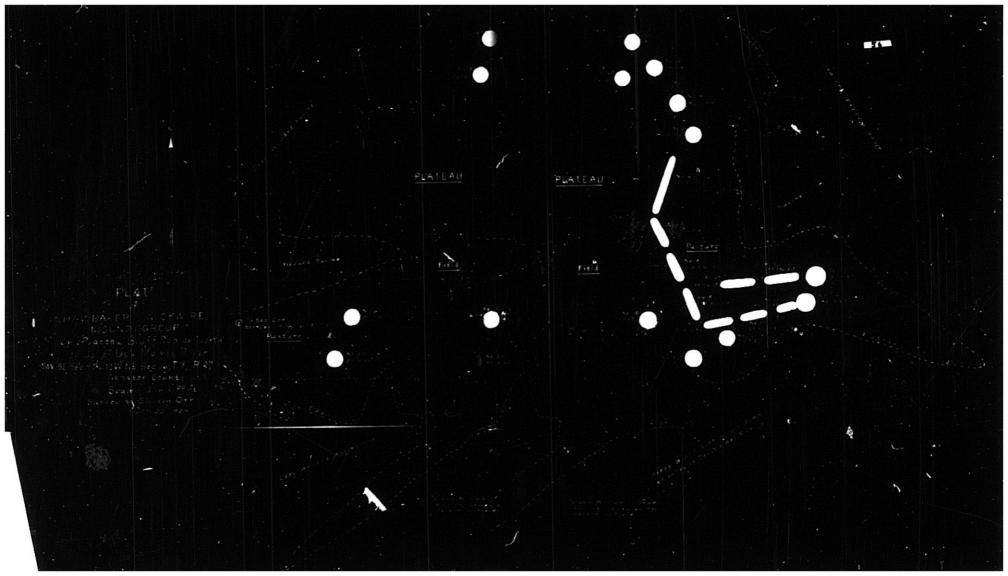
From Witrock's W. line at NW. cor. of Enclosed Area, N. along Sec. line 17.47 ch. to NW cor. of his farm at cor. to Secs. 2, 3, 10 and 11. T. 94. R. 39, and continuing N. along Sec. line 25.23 ch. to public road.

#### Levels of Wittrock Earthwork.

At Stake 1 3E cor.  " bottom of ditch E  " nat. level E  " 20 ft. NW. inside embankment	Rod reading 37" 58- 69 58 35	Elev 21" - 32" - 21" + 2"
At Stake 2 HE. cor  " bottom ditch E  " " " " " " " " " " " " " " " " " "	57" 69 65 55	- 32" - 28" - 18"

At Stake 3 - angle in N embank. " bottom of ditch N	Rod reading 48" 85-	Elev. - 27"
it Stake 4 NN cor.  " bottom of ditch N W.  " natural surface N W.  25 ft. SE inside embankment.	37" 69 66 57 39	- 32" - 29" - 20" - 2"
At Stake 5, angle in Embank. " bottom of ditch W	40" 64	- 24"
At Stake 6, angle in Embank. " bottom of ditch W	39" 64.	-25"
At Stake 7 SW cor. bottom of ditch S	36 <b>"</b> 74	- 38"

From cor. to Secs. 2.3.10 and 11, T. 94, R. 39 W
S. along Sec. line to intersect creek 1.00 ch.
" same 9.14 "
" point from which
stake #4 at NW cor. of Enclosed Area
bears East .94



#### The Brushy Creek Mound Group

This Group is located on the irrgular terrace - bluff top area lying between the Brushy Creek at its confluence with the Des
Moines River at 20 miles SE of Fort Dodge. The plateau as well as
the bluff sides are heavily timbered, making the area desirable for
a forest reservation as well as a Mound Group preserve.

This is the largest and best - only two or three of the mounds have been dug into - of this type of mound group, one of the two characteristic of this part of the Des Moines valley. A plat is attached.

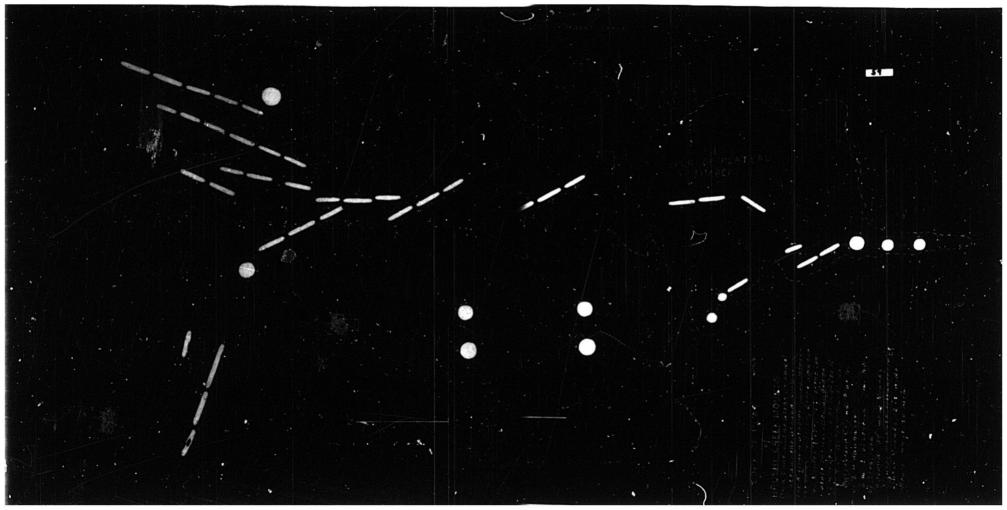
The land on which this group is located belongs to the Des Moines Land Improvement Company, and doubtless could be purchased at a fair price.

Because this might be considered a type group; because of its large area and rough, broken and wooded surroundings, suitable for a natural forest preserve, a very considerable area, 80 to 160 acres, should be acquired. It is now an unpastured wildwood.

There is considerable local interest in the numerous mounds along the river, but we doubt if it amounts to more than a general

desire to see them preserved.

Brazalte Crowl M



#### The Leheigh Mound Group.

There appears to be on the plateau-bluff tops - on either side of the Des Moines River, between Ft. Dodge and Boone, two types of mound groups. One consisting of a few large - 5 to 8 ft. high - mounds in close proximity and without accompaning linears. The other of somewhat scattered round mounds around 2 - 3 ft. in height, with which are associated many very low - 4-8 inches - linears, usually arranged in strings.

The Brushy Creek mounds are an outstanding illustration of the latter. The Biberg; the lone mound on Sec. 20, T. 87, R. 27; the Armstrong mound on SE. Sec. 21, T. 87, R. 27, and the Leheigh Group about one mile north of Leheigh on Sec. 6, T. 88, R. 27, of the for-

mer.

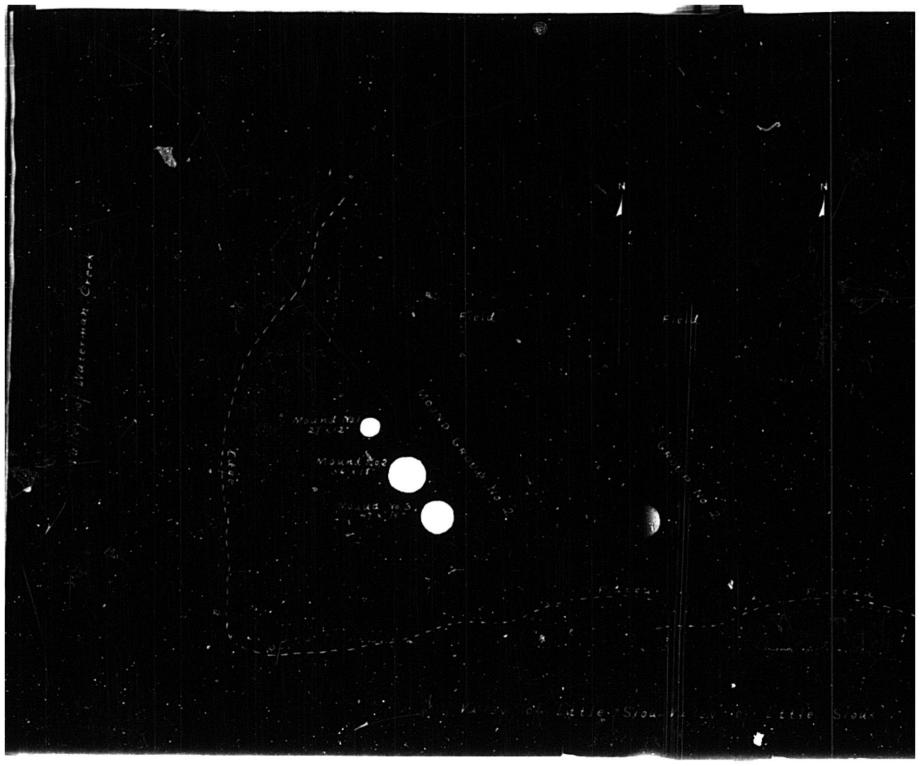
This Leheigh Group of three mounds, 5, 6, and 7 ft. in height, nearly touching each other, is located on a bare pasture spur of the bluff on the East side of the Des Moines river, about one-fourth mile over perfectly level ground from a public road.

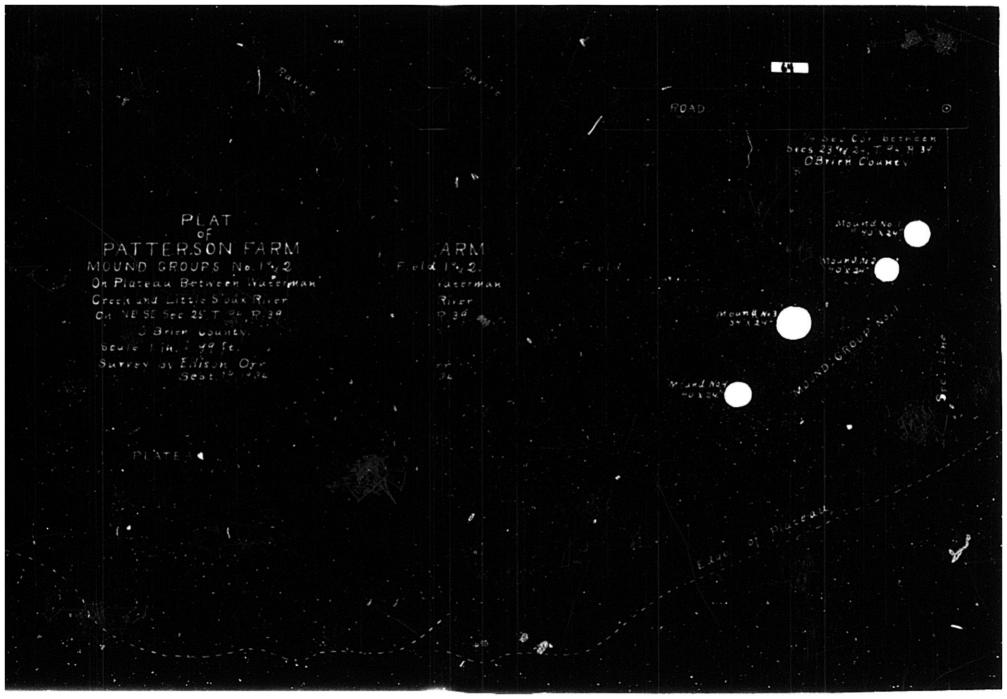
Excavation has been done in all of this group and some restoration would be necessary. The land is now in closely cropped clear

pasture.

One or two acres and 1/4 mile right of way for access would be the land required for a preserve. We were unable to get a price. Except for restoration and fencing, no other immediate expense needed.

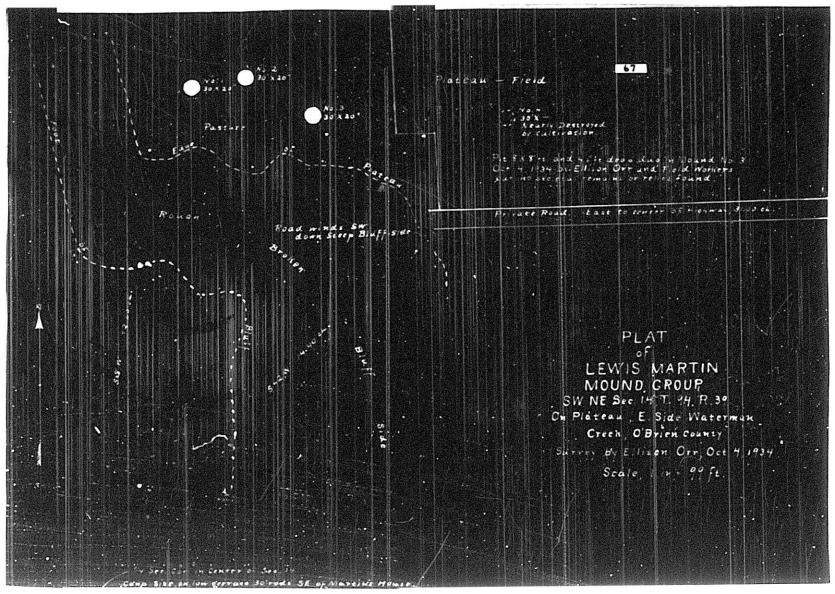
Only maintenance would be close pasturing.





Gravel Pit Lon Ground between Terrace and Bluffs PLAT Four Nearly Obliterated Mounds
ox E. End of Hill Terrace on the TERRACE FIELD SW of Sec 24, T. 94, R. 39 and SE of R.T. Grave Pit This LD ft high Terrace - a Gravel Train of the Wisconsin Glacier Durrey by Ellison Orr, Sept. 14 1984. Edge of Terrace Flood Plain of Little Sioux

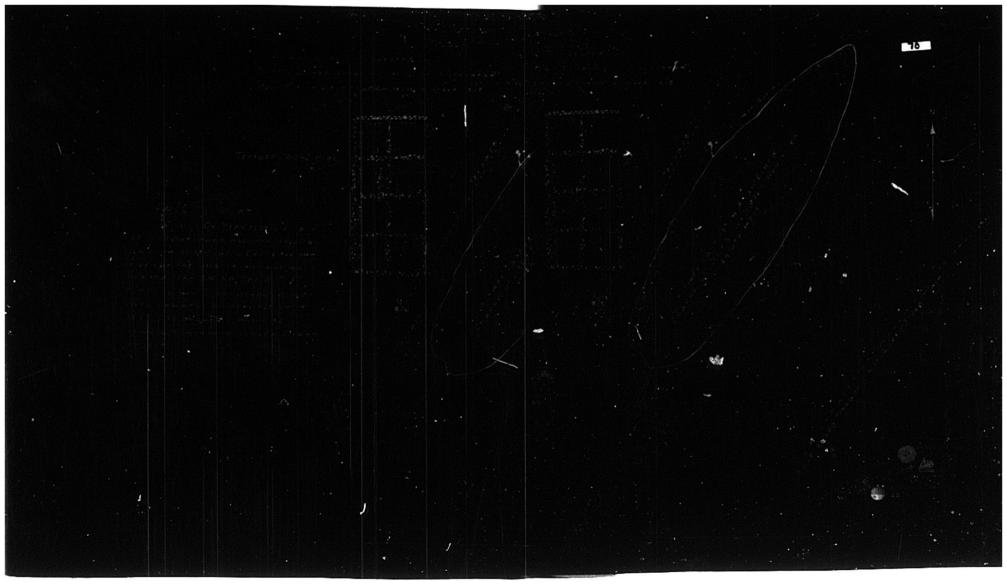
PLATEAU FIELD Pareau Mount No. 5 Oround No 4 PLAT WEBB MOUND GROUP . On Blaff Top East of Waterman Creek Mobril No.3 O'Brim County Survey by Ellison Orr Sept 20, 1984 Scale, Lin. . 99 ft. MOUNA No 2 Mount No. 1 Vi Sec Corner
L+ SH Corner of
NIV. SE Sec 23 Tomps of



68 PAULINA MOUND GROUP West Bank of Mill Creek, One Mile N. of Paulina, O'Brien County Survey by Ellison Drr, Sept 21, 1930 . Scale; I in . Poft These Mounds progest Signan : Sec Cor.

# Quinby Mound Group

GROUP SMALL LOW MOUNDS CI HIGH BLUFF S. of Confluence of Rock Creek and the Little Siour River on sw swifee . 4 T 90 1 . 40 2/2 m. W. of Quino, CHE-see The Financial County Valey of the Little Sloux Sketch by Ellison Orr. Der 11 10347 PLATEAU Little Sioux River 1/2 mi E. Sec. Cor. Puolic Road Stees Hill & Sec. Com



This survey was ware in increasing his start tops, especially the salient points, and six terraces.

The two field workers would part the coay is placed along the sevent biguing in reservoir to part the field with the coay of t

Of Reconneissance Surveys
along Bluffs of Mississippi River
from Pike's Peak to Green Island,
by Fred Orr and Harrison Toney,
from Feb. 1st, to Feb. 25, 1936.

Jul. 3 o stones a Refrency. This survey was made by inspecting all blaff tops, especially the salient points, and all terraces.

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AND THE TAXABLE CONSISTS CHARLEST AND AND ADDRESS OF A PARTY. Andread I tolerate at ometions of history and the design of history and the design of history and history and his or any of history and history and his or any of history and his or any of history and his or any of his or any or any of his or any of his or any o

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The two field workers would park their car in places along the nearest highway in condition to permit travel ever it, and walk out coross the fields to the edge of the bluff, and then on foet work up and down the river. Due to bad reads and the toy sides of the two to three hundred feet deep ravines, the work was laborious and slow. Then too, contion and circumspection was necessary to avoid running into the all too common illicit stills in operation in the out of the way places where they had to go. At least one very unpleasant contast was made with a bunch of four "tough guys". MTW CONTROLS RELEASED

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to the first of the retinance of part 10, so 40 years widely should be

- Pob. 1 41 mi. Wankon to McGregor, thence South of McGregor to Pike's
  Peak Park, on reconnoissance survey for Indian mound groups.

  Pob. 2 51 mi. Complete reconnoissance survey, McGregor to Sny Magill,
  located 2 mounds on backbone of bluff north of Sny Magill Greek,

  Pob. 5 Survey and notes of Sny Magill bluff. Group of 2 mounds.

  Pob. 5 Sunday McGregor.

  Pob. 4 39 mi. McGregor to Clayton. Reconnoissance survey; Sny Magill
  creek to Clayton bluff tope but no finds.

  From Pike's Peak to Clayton, we found plewed fields running out to brow of bluff, leaving no traces of mounds should there have been any originally.
- Peb. 5 50 mi. MeGregor to Guttenberg. Reconnoissance survey from
- Big Spring, Borth. Located 2 groups, one of 7 round and 1 linear; one of two round, (surveyed 2-25) 26 mi. Guttenberg to Bekard's Siding. Reconnoissance survey. Located group of 9 mounds on backbone of high bench. One large mound and one linear(large) mound on high bluff top. From this point to Clayton, bluffs, are covered with dense
- timber. 50 mi. Guttenberg to Clayton. Reconnoissance survey. Walked from Clayton south on bluff tops, as no roads near - heavy timber.
- Peb. 8 26 mi. Outtenborg to Bokard's Siding. Made survey and notes
- of mound groups north of Rekard's creek. 70 mi. Guttenberg. Reconnoissance survey. North of Big Spring. Peb. 10- Sunday - Wankon.
- Peb. 11- 80 mi. Waukem to Yellow River, to check up on some surface finds to McGregor (on Park assignment) and to Postville.
- Peb. 12- 82 mi. Wanken to Reinbedt-O'Regan resurvey, and to Harpers Ferry checking up on surface finds. Peb. 18- 89 mi. Wanken to Guttenberg. (Rain)
- Peb. 14- 74 mi. Guttenberg to Big Spring (North) A.M., and P. M. to Bellevue.
- Peb. 16- 21 mi. Bellevue North along Makoqueta River. Reconneisance survey. Gravel terrace of two different elevations with brow of high bluff back of river .5 to 1.mile. Surface finds of clam shells and arrow-points, indicating village sites - made survey and notes of Pleasant Creek group of 5 mounds.
- Surface finds of Pleasant Creek, by mail to Waukon.
- Feb. 17- Sunday. Bellevue. Feb. 18- 35 mi. Bellevue to Green Island. Reconnoissance survey. Survey and notes of group of S round mounds in Bellevue St. Park (Bluffs south of Bellevue close to river) Feb. 19- 44 mi. Bellevue to Makequeta River. Recommolesance survey.

- Lecated one group of 5 linear and 4 round; one group of 2 round; another group of 2 round mornds.

  Peb. 20- 35 mi. Bellovne to Makequeta River. Survey and notes of 3 groups of neunds north of Makequeta River on bluff top.

  Peb. 21- 59 mi. Bellovne north to Greek terrace all creeks have 60 to 70 ft. high terraces about 10 to 20 rods wide, thence to Dubuque, P.M.

Peb. 22- 44 mi. Dubuquo to Guttenberg. Reconneissance survey of Harvey Island.

Peb. 25- 60 mi. A.M. Survey and notes of 2 mound groups - one of 7 round and 1 linear - one of two round mounds, north of Buck Or. P.M. - to Waukon for Sunday.

(Transportation to Wankon and return to Guttenberg, about the same as hotel expense ever Sunday at Guttenberg)

Fred Orr

Respectfully submitted.

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Designation

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#### REPORT

Of Reconneissance Survey along Bluffs of Mississippi River in Jackson, Clinton and Scott Counties, Iowa, by Pred Crr and Harrison Toney, from Peb. 24th, to March 7th, 1986.

Dr. Charles B. Zayes, Supervisor, sep. 35 to Mar. T. 1886.

Dear Sir:

Herewith daily work report of reconnoisesance survey by field workers, Fred Crr and Harrison Toney, Feb. 25th to Mar. 7th, 1985; detailed report of location and kind of mounds found and platted; Feb. let to Mar. 7th; and Summary; Project 1047, Iowa Flanning Board.

we desire and the business as

Teta 28 - Glinten to Princeton.

Personalestone survey of black watt of Extragues and between Cinclesive Sirer and Logi Creek.

Mari I we Wilmand to Anther Ed Respectfully submitted,

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## Daily Report of Work Done.

Status Lat Language of Languages

## Reconnoissance Survey Feb. 25 to Har. 7, 1935.

Feb. 25 - Wankon to Dubuque enroute to Clinton - road blockaded.
Feb. 25 - Dubuque to Clinton.
Get additional field notes Mr. Lempe, Bellevue.
Feb. 27 - Clinton to Frinceton.
Group of 1 mound corporation of Frinceton between Srd. Peb. 27 - Olinton to Princeton.

Group of 1 mound corporation of Princeton Netwoom Sed.

and 4th St. on terrace, 74 Else. above river. Surface
finds indicate terrace for 1 mi. above Princeton used
as camp site and for burials.

Peb. 28 - Olinton to Princeton.

Beconnoissance survey of bluffs west of Princeton and
between Mississippi River and Lost Greek.

Mar. 1 - Olinton to Bulger Hellew Road.

Reconnoissance survey bluff west of Clanay Lake.
Group of 8 comical nounds Sec. 7, 2, 68, R.6.7-Surveyed.

Mar. 2 -- Olinton to Sulger Hellew Road.

Reconnoissance survey in Sec. 7.

Group of 12 comical and 10 linear nounds Sec. 7, 2. 62

Mar. 4 - Glinton to Goose Lake. Reconnoissance survey. Surface finds indicate terraced shores used as camp sites.

Mar. 5 - Clinton to Bellevne. Reconnoissance survey Clinton County. Group of 1 conical mound in Sec. 7, T. 82, R. 6 L. Group of 2 conical mounds in Sec. 18, 2. 62, R. 6. R. Group of 8 conical mounds in Sec. 18, 2, 82,R. 6 E. Indications lower terrace at base of bluffs used as camp sites. Because of lack of time, no survey or notes on these

four groups. - Bellevne to Green Island. Reconneissance survey - Jackson County. Group of 9 conical and 4 linear mounds Sec. 28.T. 85 R. 6.B.

ar. 7 - Ordered to return to Wankon - work suspended.

### Dotailed Report of Location and Eind of Mounds.

## Clayton County.

Reconneissance survey of Mound Groups, Feb. 1-March 7.

Completed from Pike's Peak to Tarkey River, Clayton Co., 25 mi. Sny Magill - Group 2 conical mounds on point of bluff Sec. 22, T. 96, R. 5.

Schard's Siding - Group on bluff top. Group 1 conical mound. Group 1 linear mound. Sec. 7, 7, 95, R. 2 W.

CONTROL FALLOW

Buck Creek- On bluff Group 7 conical, 1 linear mounds. Terrace Group 2 conical mounds. Sec. 29, T. 95, R. 2.

Clayton County, total of 5 mound: groups surveyed- 12 conical.

## Jackson County.

## Reconneissance Survey.

Completed from 6 miles North of Bellevue to 4 miles South of Green Island, 22 miles.

Bellevue - Group 1 linear mound.

1 round

Sec. 18, T. 86, R. 5 B.

Bellevue St. Park- Group S round mounds. Sec. 19, T. 86, R. 5 E.

Maquoketa R. No. Bluff- Group & deniesl, 5 linear mounds.

Sec. 14, T. 85, R. 6 B.

Green Island -SE. Twin Springs. Group 9 conical, 5 linear mounds. Sec. 28, T. 85, R. 6 E.

Jackson County 6 Mound Groups- 15 conical, 10 linear.

#### Clinton County.

Recognolesance survey of Hound Groups.

Princeton - Group 1 conical mound. 300. 2, T. 79, R. 5 E. Scott Co.

Clinton- Bluffs west of Clancy Lake.

1st- North backbone Group 12 conical, 10 linear - Sec. 7.
2nd- " Bnolosed area, 1 conical mound-Sec. 7.
4th- " Group 2 conical mounds Sec. 7.
5th- " 9 conical mounds Sec. 18.

" 9 conicel mounds Sec. 18.

Secs. 7 and 18, T. 82, R. 7 E.

Clinton County -51 conical , 10 linear, 1 enclosed area in 5 groups.

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#### Summary .

Of Reconneissance Survey on Iowa Bluffs and Terraces along Missistipp River in Clayton, Jackson, and Clinton Counties.

Total days	two Field	Workers	29
	miles transp	portation	1207
	BADE		\$ 60.35
" cost	per day per	man	2.07
" subs:	istence expe	ense	114.45
cost	per day per	man	1.07
" Ho. 1	mound eroupe	found in Clayton C	
,	monnda Conné	in Clayton Co.	
	nound excess	in orayeon co.	
	monte Reorbe	found in Jackson C	
	nounds Iound	in Jackson Co.	28
	mound groups	found in Clinton C	0. 5
	nounds found	in Clinton Co.	41
1.0	Enclosed are	a found in Clinton	Co. 1
	mound group	found in Scott Co.	1
	mounds found	in Scott Co.	ī
Miles bluf	f line surve	yed in Clayton Co.	25
		" Scott Co.	<b></b>
		" Jackson Co.	
		T Glitaten Co.	28
		" Clinton Co.	
		Total miles survey	ea 79

Respectfully submitted.

Fred On

83 MOR BACK Bottoms

84 ECKARDS ne Que 84 STORE QUARRY LOUND GA MOUND GROUP NW SEC 32 T. 93 P2 W. 9 Barra Mounds 1 9 Bar a Nounds 11 2 2 in High

Field Notes of Survey of Group of 8 Mounds on top of Bluff N. of Buck Creek and 3 mi. N. of Guttenberg, Clayton County, On NE. 1/4 of Sec. 30, T. 93, R. 2. Survey by Fred Orr, Feb. 23, 1935.

.25 to point of bluff 300 ft. high.

Linear measurements in chains. Heights in inches.

```
From center of Mound #1 - .40 x 10"
N 12 E 67 to S. end of long Md. 1.43 x .35 x 10"
N. end long Md. N 12 E .76 to Md 0 - .30 x 10"
Md #0 N 12 E - .92 to cor. field
```

" " #0

```
From Md #1 S 23 W - .78 ch. to Md. # 2 -
                                         .35 x 10"
        2
                   .78 ch. to Md.
                                    3 -
                                         .45 x 18"
        3
                   .77 "
                           **
                                    4 -
                                        .30 x 6"
       4
                   .75 "
                                    5 -
                                         .25 x 6"
                   .73 "
                                    6 -
                                        .25 x 6"
                  4.00 high point 75 W
                  8.45 to Sec. line bet. NE. and SE. Sec. 30
thence bet. Sec. 30 and 31 west to 16.31 to angle in road - runs NW.
pump SW .60
```

or Fred Orr 167

Field Notes of Survey of Buck Creek Bench Mound Group, (2 mounds) on N. side of Buck Creek 3 mi. N. of Guttenberg, by Fred Orr, Feb. 23, 1935. On SW. 1/4 Sec. 29, T. 93, R. 2.

Mound # 1 - 60' x 18'

W fence of road N 60 E 1.17 ch.

N to foot of bluff 2.00

From #1 S 25 E 2.50 to #2 - 40x6

on edge of bench

E 35 to W fence of road

From # 2 S 4 E 3.60 to cor. fence

S to E & W 1/4 Sec. line 1.10

Buck Creek road runs N 48 W terrace 25 ft. high.

SUPER OFRED ORR Scale 3 ch to Inch

# Field Notes of Survey of Mounds in Bellevue State Park.

Survey by Fred Orr, Feb. 1935.

3 round mounds - Bellevue State Park.

From NW. cor. of NE. 1/4 Sec. 19, T. 86, R. 5, 16.24 to SW. cor. of State Park

SW. cor. of Park. N 78 E - 21.97 to Mound # 1.

Mound # 1 ( .60 x 3') \$ 60 E - 1.31 to Mound # 2.

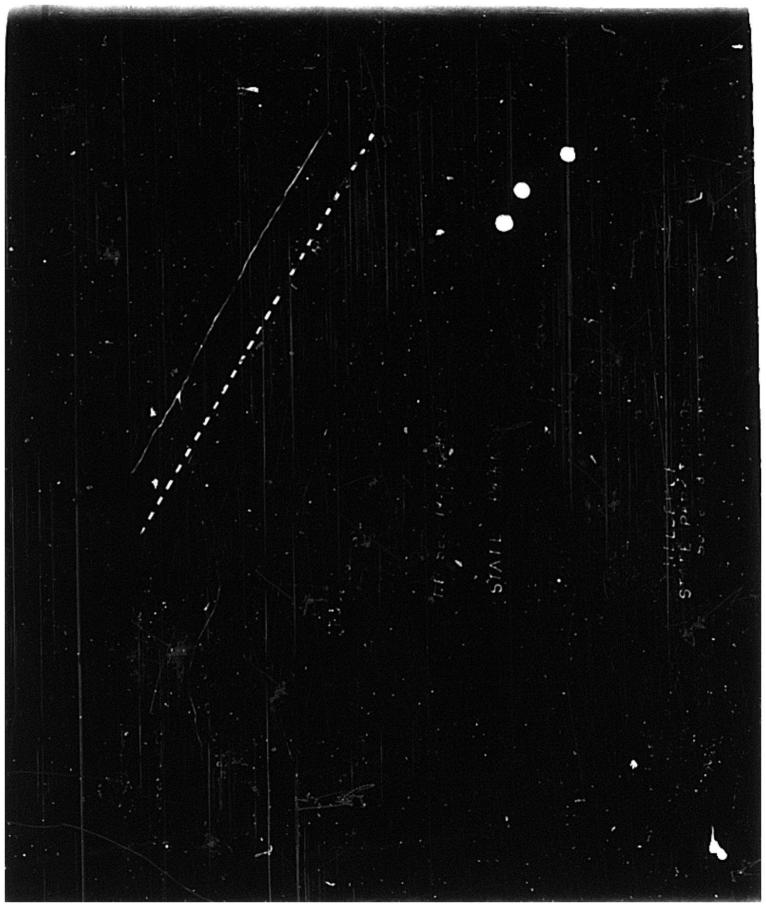
Mound # 1 - E .50 to bluff.

Mound # 2 - ( .50 x 2.5') S 45 E - 2.00 to Mound # 3

Mound # 2 - E .40 to bluff

Mound # 3 (.50 x 3')

All mounds excavated and restored by custodian.



Field Notes of Survey of Pleasant Creek Mound Group. Survey Feb. 16, 1935, by Fred Orr.

Washington Twn.

Jackson Co.

Group of 5 mounds.

Mounds 1-2-3-4 in SW. 1/4 of Sec. 4

" 5 in NW. 1/4 of Sec. 4

T. 85, N R. 5 E.

Course 4 to 5 intersects 1/2 Sec. Line.

Mound # 1 (1.15 x 3.5') N. 21 E - 2.12 to

Mound # 2 (1.00 x 4.0') N 22 W - 2.00 to Md. # 3.

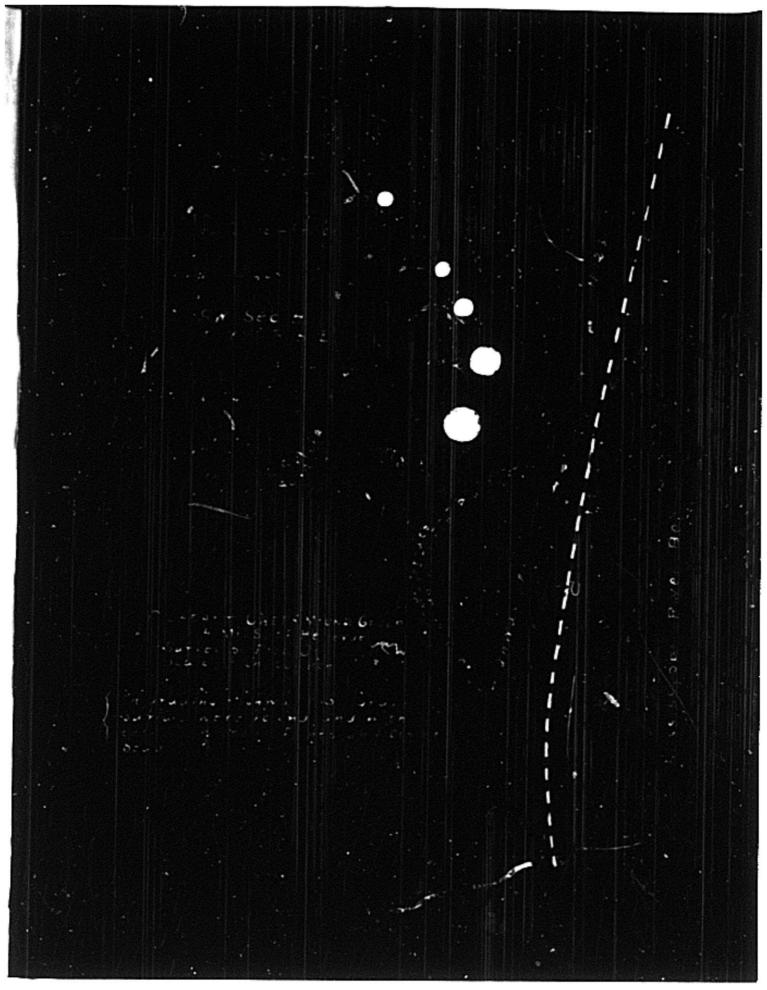
( " # 2 E 2.70 to center hwy.)

" # 3 ( .50 x 1.0') N 30 W - 1.44 to

" # 4 ( .40 x 1.0') N 38 W - 3.00 to Md. # 5

( " # 4 N 38 W 1.34 to 1/2 Sec. line)

" # 5 (.40 x 1.0)



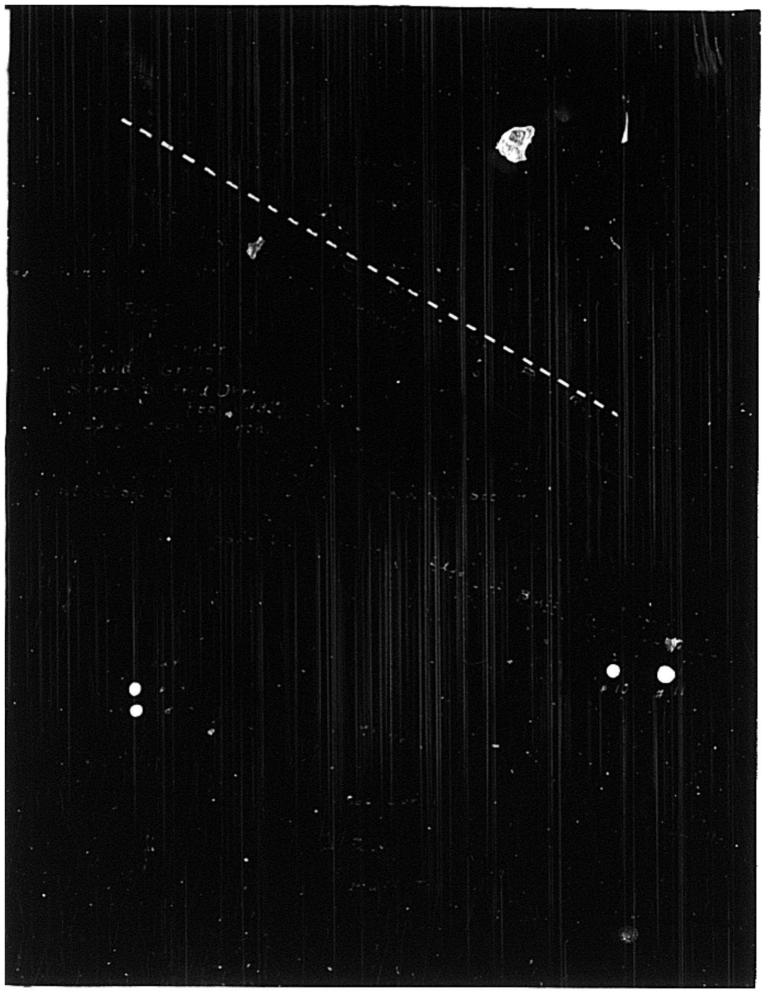
Field Notes of Survey of 4 Mounds on Bluff Top S. of cor. to Secs. 14, 15, 10 and 11, T. 85, R. 5, E.

Beg. at cor. to Secs. 14, 15, 10 and 11 - 85- 5, thence S. bet. 14 & 15 11.50 to top of Hog back. thence S. 70 E. 10.50 to Md. # 10 30 x 12" on end of Hog back 250' high where hog back joins bluff.

From t10 S 87 E 1.76 to #11 50x2-1/2'

From 1/8 cor. bet. NW. 14 and NE. 15-85-5
West 5.00 to back end at hog back
thence N 14 W 3.37 along Hog back to Md. #12 40x10".

From #12 N 4 W 64 to #13, 40x12"
N 50 to point of spur



Field Notes of Survey of Mound Group on Bluff N. of Makoqueta River.

> Survey by Fred Orr. Feb. 20, 1935.

From cor. to Secs. 13, 14, 23 and 24 West bet. 14 & 23 to highway (10.00 ch)

Thence N 65 W 7.10 ch. to Md. #1 on top backbone 250 ft. high 50 1ksx18" exc.

point of spur S 32 E 2.10- W. edge of backbone bears W 55 lks.

From Md. #1 N 13 W 2.00 to #2

Long Md 52 lks x 30" x 10" N 7 W

From Md #2 \$ 85 E 5.00 to end of spur backbone edge 50 1ks W.

N. end Md. #2 N 5 W 82 1ks to Md. 3

Long Md. 40x15x10" N 22 W near cen. of backbone 50 lks. wide.

From Md. #3 N 39 W 1.30 to #4 20x10"

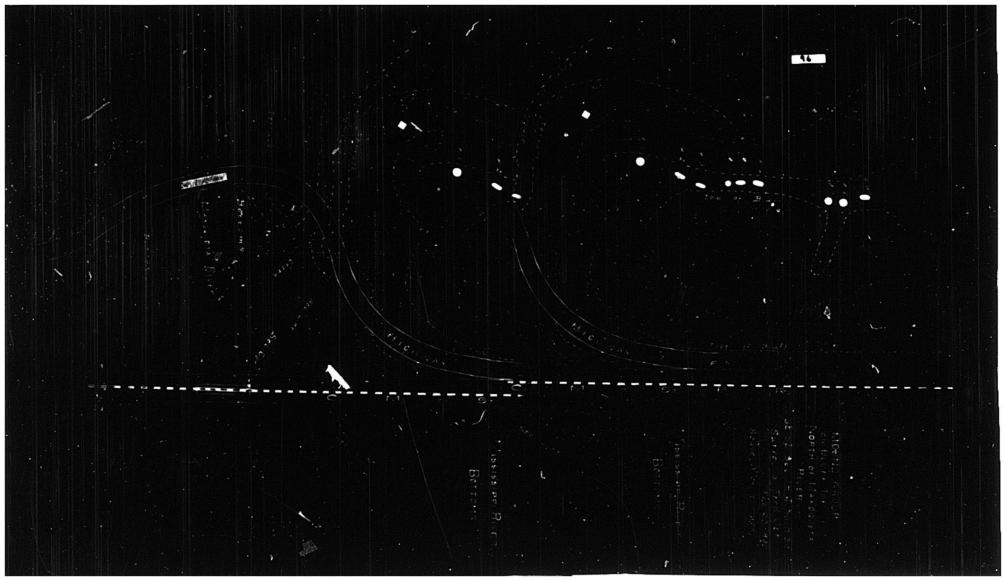
#4 N 36 W .50 to #5 long Md 45x20x10" N 34 W. N 18 W

.40 to #6 long Md 50x30x10 #5 N-W #6 N 19 W 3.67 to #7 40x18"

#7 N 28 W .85 to #8 40x10"

#8 N 52 W .93 to #9 long Md 40x20x10" Spur slopes toward point 100 ft N 28 W East 5.00 ch. In SE. Sec. 14, T. 85, R. 5.

> At bottom of bluff a terrace on north side of river many relics found.



Field Notes of Survey of North Group of Clancy Lake Mound Group, Feb. 1935, by Fred Orr. 2-1/2 mi. N. of Clinton, Ia. SE. Sec. 7, T. 82, R. 7, E.

From intersection West R.R. fence Northwestern B.F. and 1/4 Sec. Line N 13 W, 7.70 to Spring Branch

10.50 to Base of Bluff

15.31 to Mound #1.

(From Mound #1 E. to point of backbone, .40)

Mound #1 - .35 x 12 in. (exc)

From #1 - S 46 W - .29 to

Mound #2 - Long .94x.25x12 in., S 78 W, (exc.) 2 round mounds .35x18 in. built on each end of this mound.

From W. end of #2 - S 58 E - .62 to

Mound #3 - .50x3 ft. (exc.)

From #2 - S 54 W - .44 to

Mound #4 - .25x10 in. (exc.)

From #2 - N 12 E - .55 to

Mound #5 - Long - .50x.30x18 in - N 4 W

From #2 - N 2 W - 1.12 to

Mound #6 - Long .73x.30x10 in. - N 43 W

From # 2 - N 73 W - .75 to

Mound #7 - Long 1.10x35x2 ft. S 75 W - (exc.) - bone fragments.

From W. end # 7 - S 62 E - .50 to

Mound #8 - .30xlft. built on S. side of #7.

From W. end of #7 - S 32 W - .47 to

Mound #9 - S 12 W, .60x25x10 in. - Long mound. From W. end #7 - N .55 W - .64 to

Mound #10- .40x 2.5 ft. (exc.)

From W. end #7 - N 50 W - 1.36 to

Mound #11 - .35 x 2.5 ft. (exc.)

From W. end #7 - N 14 W - .64 to

Mound #12 - .40x3ft (exc.)

From W. end #7 - N 30 E - .73 to

Mound #13 - .20x10 in. (exc.)

From W. end #7 - N 20 E - 1.07 to

Mound #14 - .30x18in. (exc.)

From Mound #12 - N 3 W - 1.10 to

Mound #15 - .30x18in. (exc.)

From Mound #12 - N 42 W - .40 to

Mound #16 - Long N 36 W, .92x.30x10 in.

From W. end #16 - N 30 W - .20 to

Mound #17 - Long - N 42 W. .60x.30x10 in.

From W. end #17 - S 23 W - .45 to

Mound #18 - .40x3 ft. (exc)

From W. end #17 - N 67 E - .61 to

Mound #19 - Long, 3 52 E, .60 x .30 x 10in.

From W. end #17 - N 28 E- .62 to

Mound #20 - Long, N 58 W, .70x.30x10 in.

From W. end #17 - N 47 W - 15. to

Mound #21 - Long, N 47 W, 1.10x40x18 in.

From W. end #21 - N 65 W - .50 to

Mound #22 - .30 x 10 in. - inside plowed field

From W. end # 21 - N 58 W - 22 to fence corner

J. R. Woods, Tampico, Ill. - owner

Chas Peterson, Clinton, Ia. Route #3, tenant

98

Field Notes of Survey of South Group of Clancy Lake Mound Group, Feb. 1935, by Fred Orr. 2-1/2 mi. N. of Clinton, Iowa. SE. Sec. 7, T. 62, R. 7, E.

From R. R. right of way fence and 1/4 Sec. line
W - 1.00 to base of bluff.
3.07 to Rock ledge.
5.15 to Mound #1 - top of bluff.
(From Mound #1, E .50 to point of backbone)

Mound #1 - .35x12 in. (exc.)

From #1 - S 74 W - .40 to

Mound #2- .20x12in. (exc.)

From #2 - S 85 W - .50 to

Mound #3 - .25x10in. (exc.)

From #3 - N 80 W - .50 to

Mound #4 - .36x12in. (exc.) trench dug 1934, - bone fragments.

From #4 - N72W - .85 to

Mound #5 - .25x10in.

From #5 - N 85 W - 1.35 to

Mound #6 - 1.00x 2ft. (exc) large round mound

From #6 - S 76 W - 1.60 to

Mound #7 - .25x10in.

From #7 - S 72 W - 48 to

Mound #8 - .25x10in.

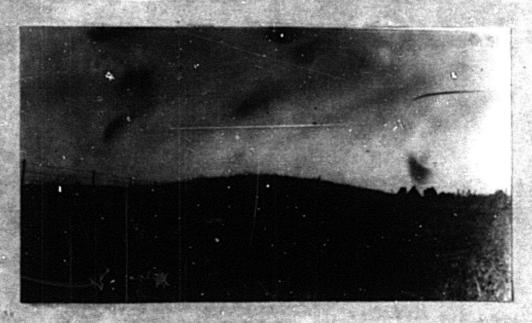
Except height of mounds, all measurements in chains and links.

11 A 1. SISSIPPI Niver Bottoms

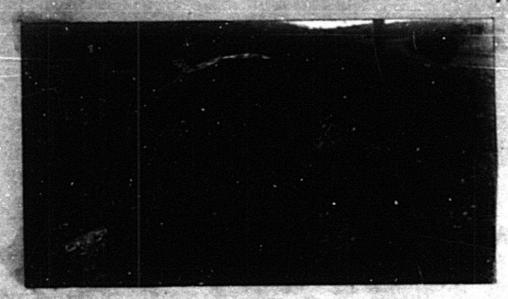


Mound \$25 of the Bleed Rum Mound Group lies in the northwest somer of Sec. 25 at 555 ft. south and 75 ft.E. of the corner to Secs. 25,24,25 and 26, T. 100, R. 49, about 1/2 mile E. of Big Sioux River in Lyon County, Is. The N. and S. Sec. line (wire) fence (here 50 ft. E. of true line,) runs across the west edge of the Mound.

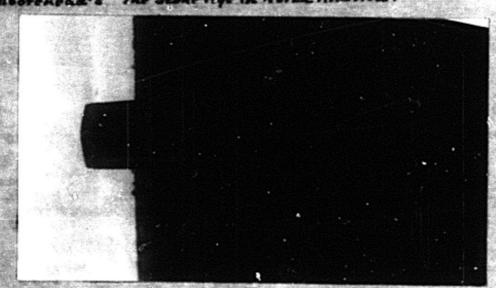
Looking North. This mound has never been disturbed and is covered with the wild blue-stem prairie grass.



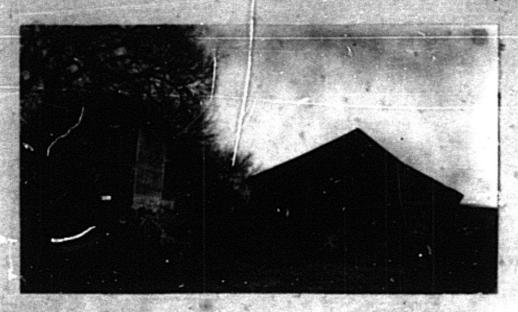
Mouna \$12 of the Blood Run Mound Group lies in the Northwest corner of Sec. 25 at 125 ft. h. of corner to Secs. 25,24, 25 and 26, T. 100, R. 49. Its north edge touches the wire fence on B. and W. Sec. line between Secs. 24 and 25. Like Mound \$25, it is undisturbed and covered with wild prairie grass.



The Pitted Stone is a large granite boulder on the line be- | Ser also | tween Sec. 25 and 26. - note fence - and 240 ft. down the | Page 124 | slope of the ferrace, west of the corner to Secs. 25. 24. | 25 and 26. T. 100. R. 49. Out in the surface of this hard rock are hundreds of polished oup shaped pits from the size of a quarter to that of a half dollar, and .2 inch deep. Looking Southwest. See Pages 3/7. 320 and 322, Fel. H of Meorekeas's 'The Stone Age in North America.

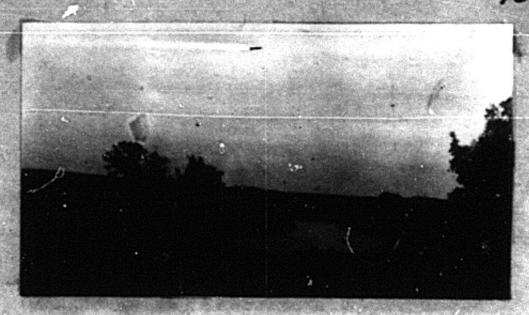


Iron post making the corner of Minnesota, S. Dakota and Iowa. 7-1/2 mi. 2. of the NW. corner of Iowa. Looking Morthwest.



Kroken Kettle Mound from the West. The Excken Kettle Mound lies on the bottom land of the Brekon Kettle Creek valley at something over a mile from where it opens into that of the Big Sloux, twelve miles north of Sloux Olty, and on the HE. 1/4 of Sec. 3, 2. 90, R. 48. This is not a burial mound but a camp site. It may have been surrounded by a palisade though in our excavations we found no trace of one. Except for the Northwest one-third, it is circular in area. having a diameter of approximately 200 ft. Either the HW. third was never built up or the creek has eaten it away. In profile it is rounded like the burial tumuli, with a height in the center of 8 ft. above the surrounding bottoms. It is composed of alluvial soil much mixed with deposits of different clays, often more or less lens shaped, with potchy ash strata, often reaching a thickness of 5 in. Scattered through this at all levels, is much broken pottery; well preserved fragments of bones, not split but broken; many bone implements especially awls; a very few celts and an occasional chipped iece. These occur in greatest abundance in connection with the ash becs. Stratification of the deposit is very obscure and the culture from top to bottom does not change.
Deposits of ashes indicate fire and refuse pits but the sides and consequent depth cannot be made out. Shetrone says these camp site accumulations were made by carrying in earth to cover up garbage and refuse that had become unbearable even to an Indian. Looking East. Opposite end of cow barn is approximate center of Mound.

A more probable explanation is given by H.C. Powers In Mecords of the Past, Vol. IX, Page 309. He ways: "The building of this Mound must have required the labor for many years of ... people who were settled in a village close to this work. The object of those who built it could not have been simply to dispose of the (village) refuse, but was probably to commemorate some important event ... some one or more of their chiefs may be buried under the mound.



The Jasper Pool in Gitche Manito State Park in the extreme MW corner of the State. Looking South. The rocks are Sioux Quartzite.



Broken Kettle Mound from the South-edge of Mound at gate in center. Back of white post East of gate, can be seen filled in expavation.



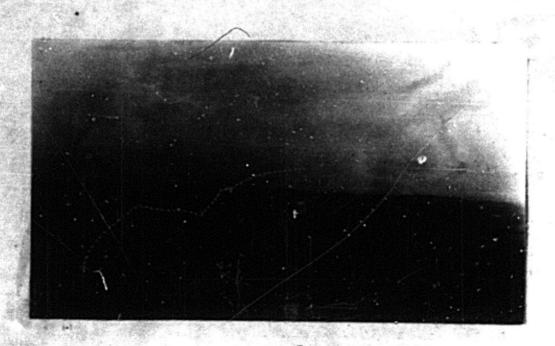
Broken Kettle Mound from the Best. Trees clong creek.



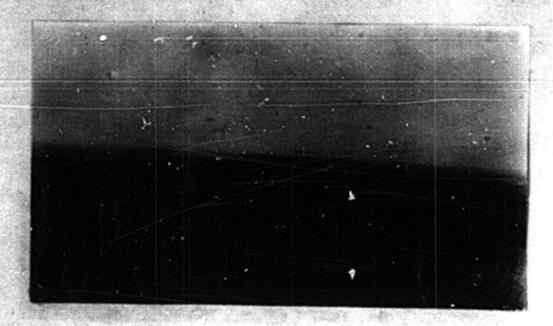
Pield Workers, Fred Orr, left, and Harrison Toney, right, with the owner, Mr. Mosher, standing about 15 ft. East of mound center of Broken Zettle Mound. Frees along creek.



Pit sile in the ME. part of Broken Kettle. This is entirely in mound earth, the end at 25 ft. ME of mound center is 8 ft. deep.



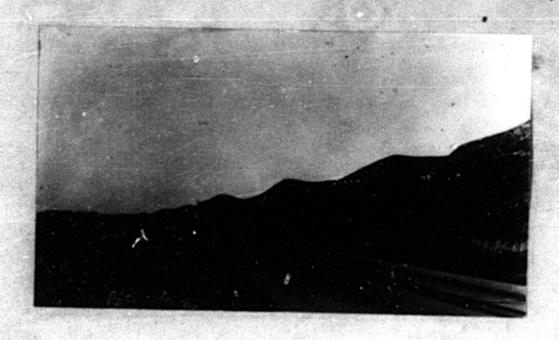
Valley of Broken Kettle creek, looking Southeast. Mosher farm buildings in center, Striped appearance of field is due to tenant's share of corn having been out.



Looking west from ossuary on high point of bluff NE of Broken Kettle Hound. This ossuary was a deposit of bundles of human bones in a pit 14 to 18 in. deep and covering area 8 ft. square to a depth of 4 to 6 inches. Except one shull, all the bones were badly decayed. A broken celt was found them. From this point there is an extensive outlook over the valleys of the Broken Kettle, the Big Sioux and the Missouri bottoms and the very broken bordering bluffs.



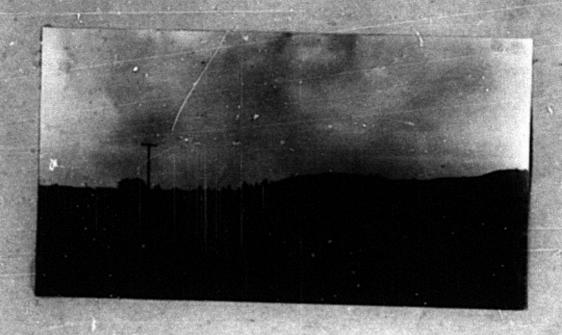
Looking North from bluff top ossuary N. of Broken Kettle Mound.



Missouri River bluffs South of Sioux City. Looking Borth.

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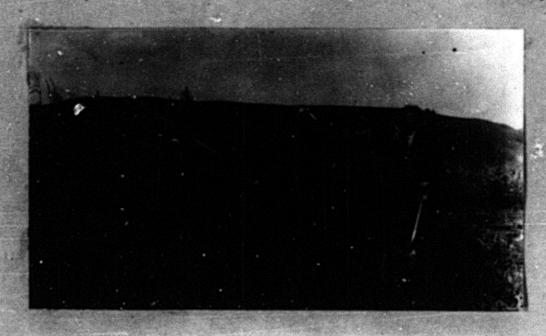


The Paul Braunschweig camp site, looking West. Car in road a little East of center of mound.

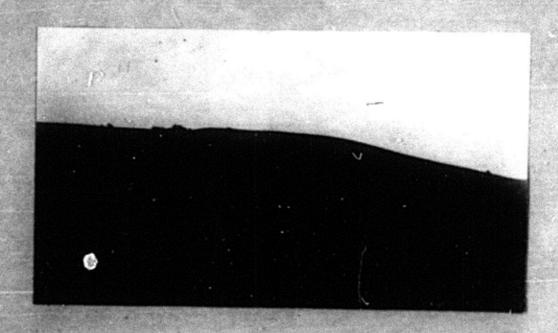
In valley of Little Sioux at mouth of Waterman Creek, on SW. Sec. 25, T. 94, R. S9, in O'Brien County.

There are in the valley of Waterman Creek, in O'Brien County, and of the Little Sioux in Buena Vista and Cherokee Counties, 12 known camp sites of the same cultures as the Breken Kettle Mound camp site and containing camp refuse of the same culture. They cover larger somewhat irregular areas - 300 to 400 ft. in approximate diameter - and have a maximum height of not over 4 ft. One of these, on Mill Creek, is located on a low spur of bluff; three, on 40 to 60 ft. high terraces; the remainder on first low (4-6ft.) terraces above the flood plain.

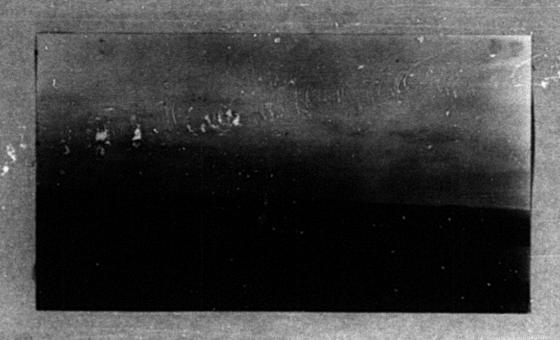
The Wittrock site on HW. Sec. 11, T. 94, R. 39, on Waterman Greek has never been cultivated, is roughly quadrangular in outline and surrounded by a low (18 in.) embankment with a very shallow ditch outside. May have been palisaded.



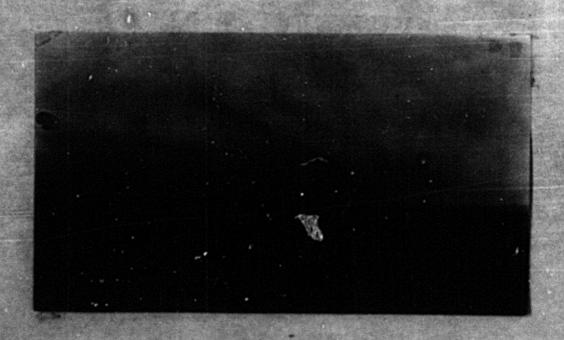
Excavating pit in Paul Braunschweig camp site near its center. Mr. Eraunschweig with hat off.



Looking East across valley of Waterman Creek. On top of bluff at right is located Group #2 of Patterson Farm Mound Groups.



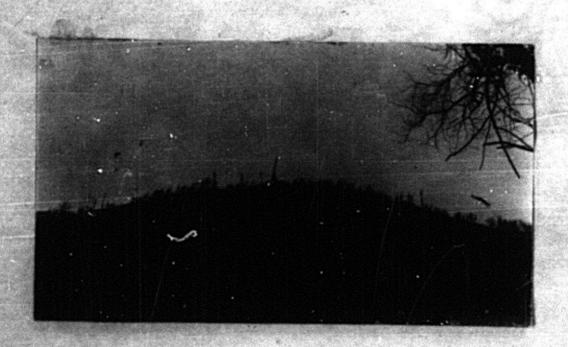
Looking HW of valley of Waterman Creek from near Group #2 of Patterson Farm Mound Groups.



Mocking north up valley of Little Sioux from blaff top between the valleys of Silver Greek and the Little Sioux and from site of mound from which Hr. E. L. Little took two Mill Greek culture note. On 200. 52, 7, 91, 8,60



Pish Dam (trap) on Hill Creek on Sec. 4, T. 92, R. 40. Looking West - down stream.



The central of a group of three large (6-7 ft. high)
Hounds lying in a H. and S. row - their perimeters almost
touching, - on point of bluff overlooking valley of Des
Hoines River to West. On Sec. 1, 2. 87, R. 28, 1/2 mf. H.
of Leheigh in Webster County. Looking West.



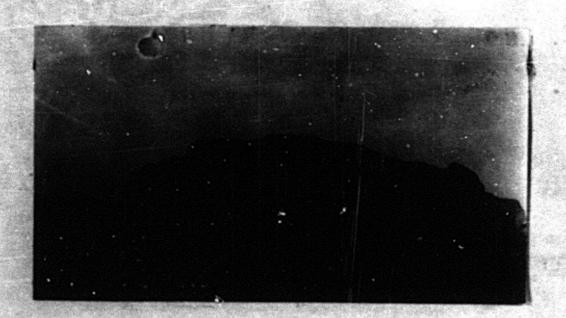
Mound #2 of Wickwire Mound Group on SW. SE. Sec. 9, T. 87, R. 27, in Webster County. Looking East.



Solitary Mound on edge of bluff 100 ft. south of Wickwire house on Sec. 9, T. 67, R 27, in Webster County. Looking East.



Mound #2 of Toolesbore Mound Group on edge of bluff overlooking valley of Mississippi River. On ME. Sec. 10, T. 75, R. 2. Just north of the village of Toolesbore, Louisa County. Looking East.



Pilot Rock, an immense erratic on the bluff top on the East side of the Little Siour 5 mi. S. of Cherekee on Sec. 15.
T. 91, R. 60. This boulder of Siour quartrite 60mio ft.
rising above the surface 16 ft. was a noted landmark of pioneer days.

"Turkey track" petroglyph out on top of Pilot Rook. 3 mi.



Prohistoric Fish Dan across Mill Greek, on Sec. 4, 7. 92, R. 40 W, Cherokee County. Looking West down stream



Heats - the small dots, the larger spots are Russian thistles - in readside out in losss, 10 mi. N. of Sioux City.



Monument erected in memory of Sergt. Floyd of the Lewis and Clark Expedition, 1904, who was buried nearby. In S. part of Sioux City. Looking West. 1934.



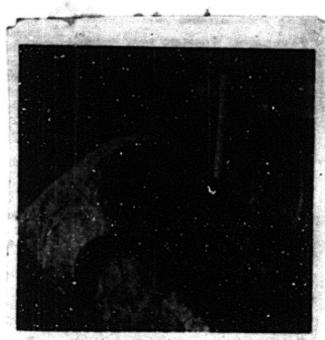
Rockuk dam, looks and Power House. Looking up stream from bridge. 1934 .



Old Stone House on site near old village site of Icwa tribe of Indians, destroyed by Sacs and Foxes under Chief Black-hawk, who was later, after the almost complete wiping out of Indians under him at Battle Island, Wis., allowed to live here and was buried not far from this stone building. On Sec. 7, T.70, R. 11 W. Van Buren County, on N. side of Des Moines River. Looking E.



The Old Hotel - all that is left of Iowaville - 1 mi. down stream from stone building - picture above - once a flourishing town on N. bank of Des Moines River, Sec. 7. T. 70, R. 11 B. Van Buren County. Looking N.



## INDIAN BLACKSMITH SHOP

Years of chipping arrowheads, by the squares of the Sious kedian Tribe, were the depressions on the slaping side of this red granite boulder, located in the northwest corner of the state. The old settlers know it as the "Indian Black-coally Shop,"—Plate by George Reseling, Red Retails.