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SITE OPTIMIZATION AND FUTURE LAND USE SUBCOMMITTEE

TUESDAY, NOVEMBER 13, 2012 @ 6:30 P.M.

THE PURPOSE OF THIS MEETING IS TO PROVIDE THE SSAB SUBCOMMITTEE WITH INFORMATION ON OHIO BROWNFIELD REDEVELOPMENTS AND DISCUSS SIMILARITIES WITH THE PORTS D&D PROJECT IN ORDER TO PREPARE THE SUBCOMMITTEE TO CREATE A VISION BUILDING RECOMMENDATION

AGENDA

- REVIEW OF THE OCTOBER MEETING
- LESSONS LEARNED FROM BROWNFIELD REDEVELOPMENT PROJECTS-KAREN PRICE, FBP
- DISCUSSION

ADJOURN



SITE OPTIMIZATION AND FUTURE LAND USE SUBCOMMITTEE

MEETING SUMMARY

NOVEMBER 13, 2012 • 6:30 P.M.

THE OHIO STATE UNIVERSITY ENDEAVOR CENTER
1862 SHYVILLE ROAD, PIKETON, OH 45661

Subcommittee Members Present: Brian Huber, subcommittee chair; Brandon Wooldridge, subcommittee vice chair; Ervin Craft, Al Don Cisco, Frank Halstead, Dan Minter, Kathy Zimmerman-Woodburn

SSAB Subcommittee Members Absent: Sharon Manson, Michael Payton

Other SSAB Members Present: Will Henderson, Board Chair; Gene Brushart, Arian Harrison, Carl Hartley

U.S. Department of Energy (DOE) and contractors: Johnny Reising, Greg Simonton, DOE; Rick Greene, Restoration Services, Inc. (RSI); Dennis Carr, Karen Price, Jeff Wagoner, Fluor-B&W Portsmouth (FBP)

Liaisons: Maria Galanti, Ohio Environmental Protection Agency (EPA)

Support Staff: Eric Roberts, Julie Galloway, Cindy Lewis, EHI Consultants (EHI)

Public: None

Huber opened the meeting:

- 1. Review of the October Meeting**
- 2. Lessons Learned From Brownfield Redevelopment Projects-Karen Price, FBP**

| Question/Comment: | Answer: |
|---|---|
| <p>Francis: How recent are the case studies?</p> <p>Are they relevant to our site?</p> <p>I still think we need to try to bring some kind of government business here.</p> | <p>Price: EPA has some recent ones on its web site. Some of these are older.</p> <p>Our situation is a little different from these, but there are many comparable.</p> |

| | |
|---|--|
| <p>What is the timeframe for recycling?</p> | <p>Carr: You should have a decision on nickel in 40 to 60 days. We are focusing on recycling as much as we can.</p> |
| <p>Halstead: We have been to Mound before, but we might want to revisit because we have several new members.</p> | |
| <p>Wooldridge: Do we have a date for the cleanup to be completed?</p> <p>I grew up with the idea that the site was a bad place, but now I have learned it is not. If we get the word out about a Home Depot being built on top of a cell, maybe we could get the public ready.</p> | <p>Carr: 2024 is the date, but it will all depend on the budget. However, we could free up some space before that.</p> |
| <p>Cisco: Are the existing landfills not designed to be built on?</p> <p>You are looking at building the cell where they were talking about building a nuclear plant?</p> | <p>Price: These case studies were designed that way, but we are not designing that way.</p> <p>Carr: Yes, they had two sites picked out, but they did not think they could go inside Perimeter Road. Where the plant is now, you have groundwater to worry about, but the other site is a better choice to build a cell because it is a clay area.</p> |
| <p>Simonton: We could have the Miamisburg Mound person come and share their pains and successes.</p> | |
| <p>Roberts: How do you determine the timeframe for remediating 33 acres versus a thousand acres?</p> | <p>Galanti: 30 acres would take about seven years. You will never get the entire plume; you will have some groundwater issues forever.</p> |
| <p>Huber: I was hoping we would have time to go over these questions and discuss each one. I would like you to take them home and fill them out.</p> | <p>Roberts: Can you e-mail them to the office that way we can send them to the subcommittee electronically?</p> |

Huber: Meeting adjourned
Next meeting: December 11, 2012 6:30 p.m.

Action Items:

- EHI will request the cleanup levels from FBP
- EHI will request DOE to arrange for someone from Mound to provide a presentation
- Huber will e-mail the Vision Building questions to EHI to send out to the subcommittee electronically

PREHISTORIC ARCHAEOLOGICAL SITES WITHIN PORTS, PIKE COUNTY, OHIO

Phase II Investigations of Four Prehistoric Archaeological Sites

By Albert M. Pecora, Ph.D. and Jarrod Burks, Ph.D.

Ohio Valley Archaeology, Inc.

2012

Ohio's Timeline

| Period Names | Subperiods | Time | |
|-------------------------|--|----------------|----------------------|
| | Cultural Periods | Calendar Years | Years Before Present |
| Historic-Era | PORTS-Era Farmstead-Era Euro-American Settlement | A.D.2012 | Today |
| | | A.D.1800 | 212 |
| | | A.D.1650 | 362 |
| Late-Prehistoric | Fort Ancient | A.D.1000 | 1012 |
| | Late "Intrusive Mound" | A.D.450 | 1562 |
| Woodland | Middle Hopewell | 200 B.C. | 2212 |
| | Early Adena | 1000 B.C. | 3012 |
| | Late Glacial Kame/ Maple Creek | 3000 B.C. | 5012 |
| Archaic | Middle | 5000 B.C. | 7012 |
| | Early | 8000 B.C. | 10,012 |
| Paleoindian | Folsom/ Clovis | 12,000 B.C. | 14,012 |

Lithic Debris



Fire-Cracked Rock



Archaeological Survey Efforts

- Archaeological Surveys
 - 1997 ASC Group, Inc. Survey
 - Phase II Archaeological Surveys of 13 Historic-era Farmstead Sites
 - Reconnaissance Surveys of Additional Historically Mapped Farmsteads
 - Enhanced Phase I Surveys of Historic-era Farmsteads
 - **Phase I Prehistoric Settlement Surveys**

Combined Survey Results

- Documentation of 53 Archaeological Sites with Prehistoric Artifacts within PORTS
 - i.e., PORTS contains 53 prehistoric archaeological sites
 - 18 overlap with historic-era farmstead sites and cemeteries

Site Types?

- 29 Isolated Finds
 - Locations where a single prehistoric artifact was found
- 24 Lithic Scatters
 - Locations where multiple prehistoric artifacts were found

Survey Recommendations

- Phase II Surveys were Recommended for Four Prehistoric Sites
 - Site A
 - Site B
 - Site C
 - Site D
 - 33Pk210 (Duvall & Associates 2003)

Phase II Field Methods

- Geophysical Survey
 - Magnetometer Survey
 - Magnetic Susceptibility Survey
- 5-meter (15 ft) Interval Shovel Testing
- 1x1 m Unit Excavation (Artifact Sampling)
- Selected Feature Documentation and Excavation

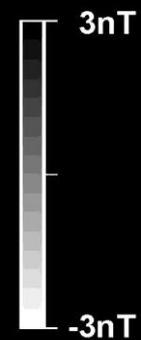
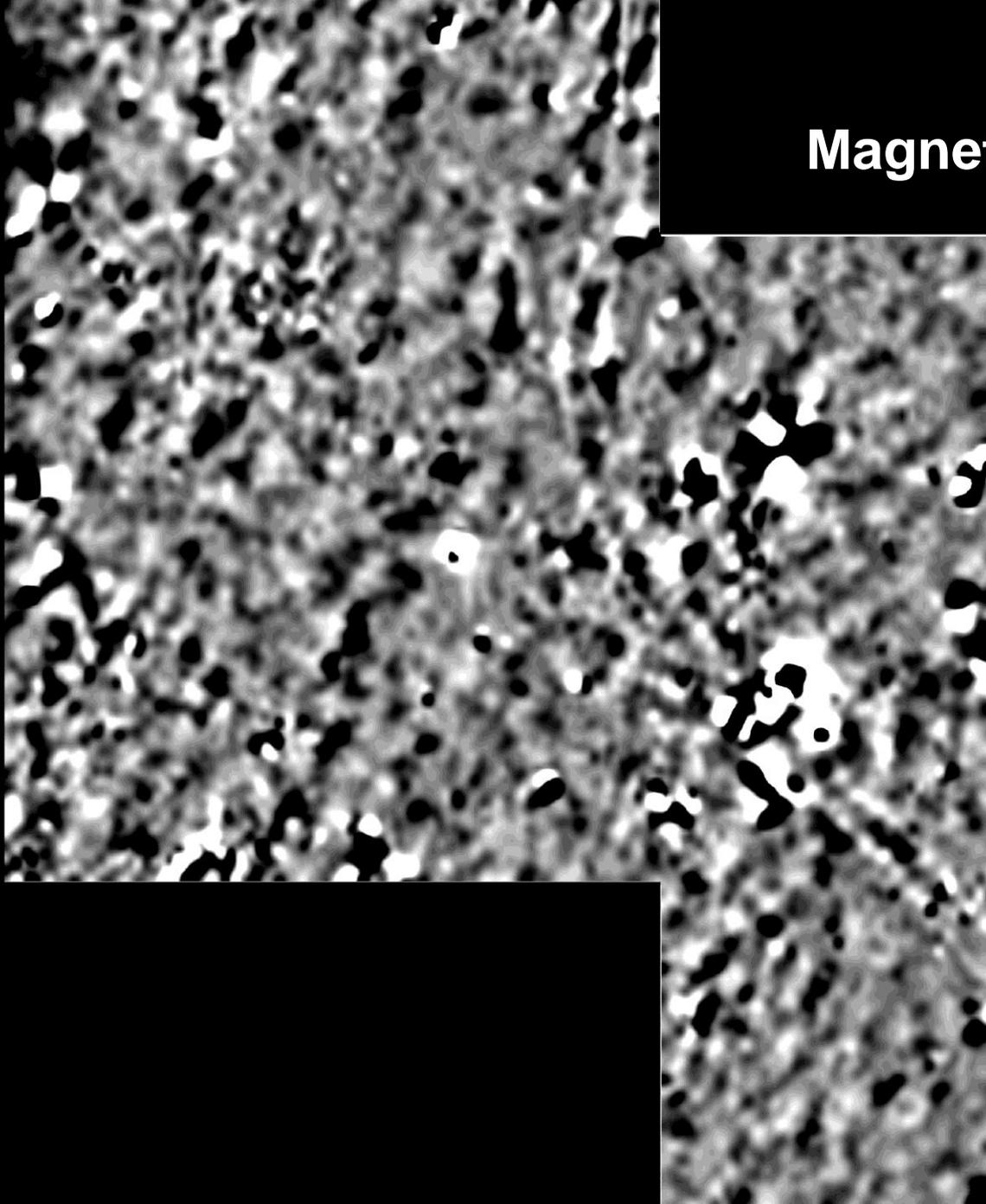
Archaeological Features

- The remains of below-ground “facilities”
- Examples
 - Earth Ovens
 - Hearths
 - Structural Post Molds
 - Storage Pits

Temporal Data

- **Temporally Diagnostic Artifacts**
 - **Projectile Point Typology**
 - **Pottery**
 - **Micro-Drill Technology?**
- **Radiometric Dates**
 - **Obtained from Carbon Samples Extracted from Features**

Site A Magnetic Survey Results



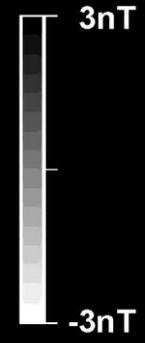
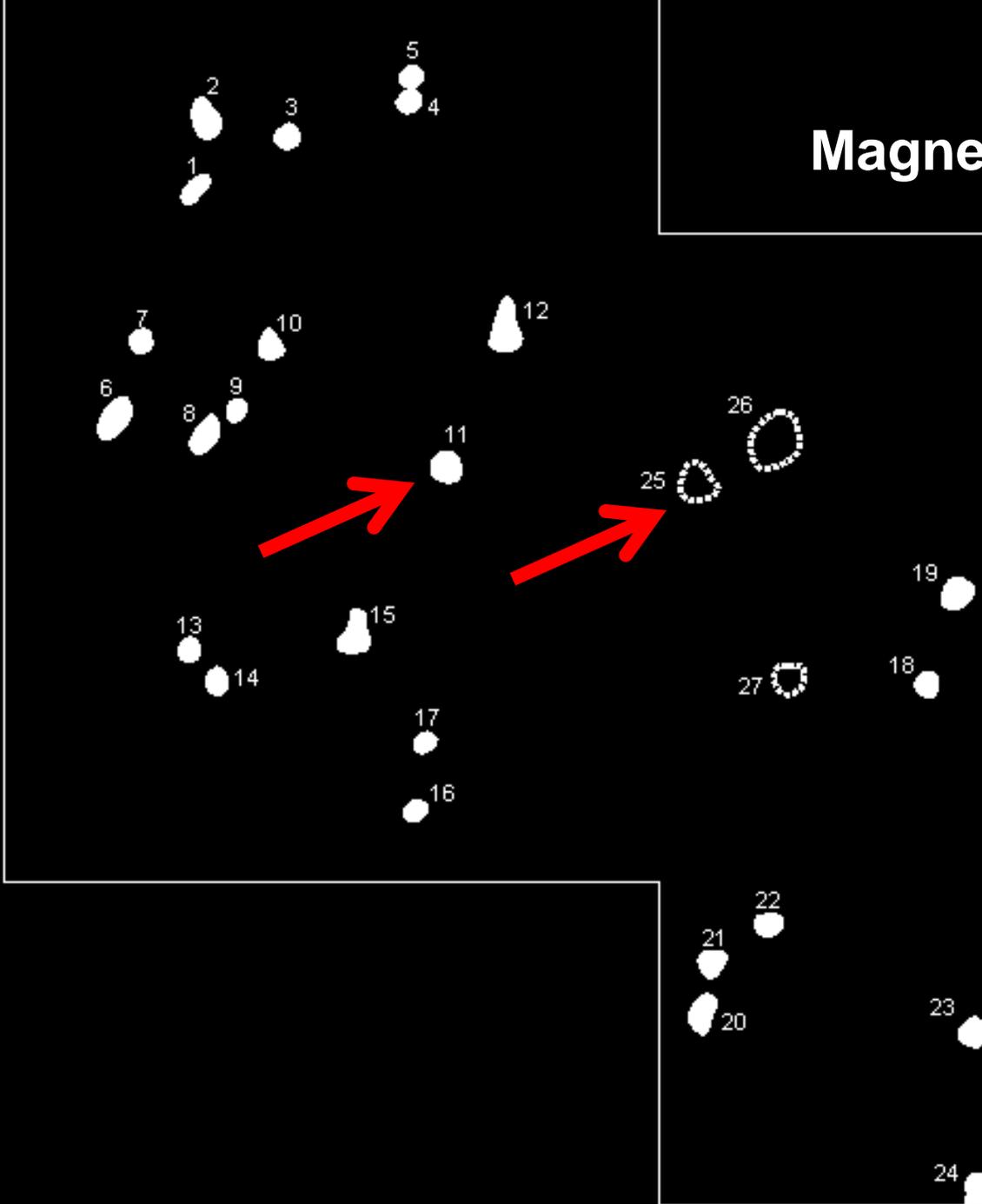
about 0.9 acres

65 feet

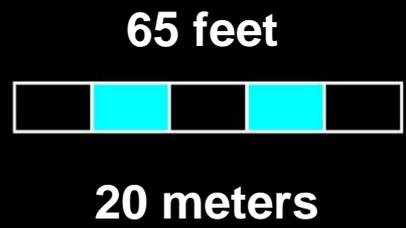


20 meters

Site A Magnetic Survey Results



about 0.9 acres



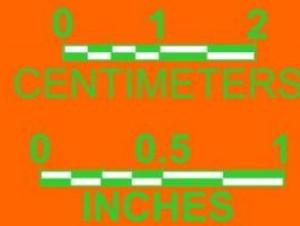
Site A Artifacts



**Projectile
Point**
A.D. 700-1200



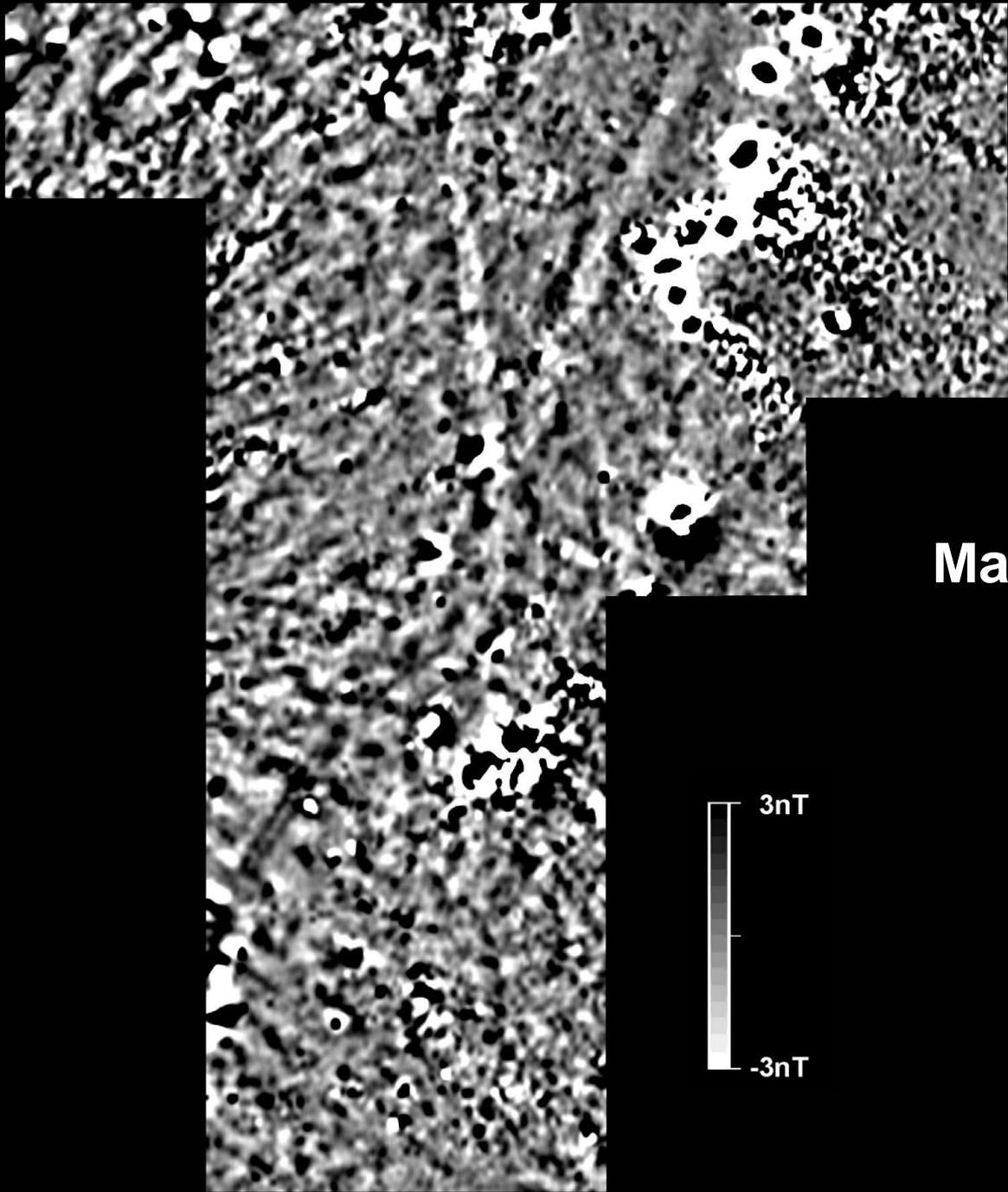
**Projectile
Point**
4000-1700 B.C.



Core

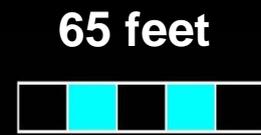
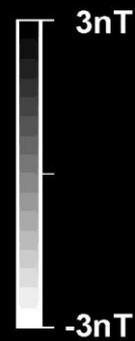


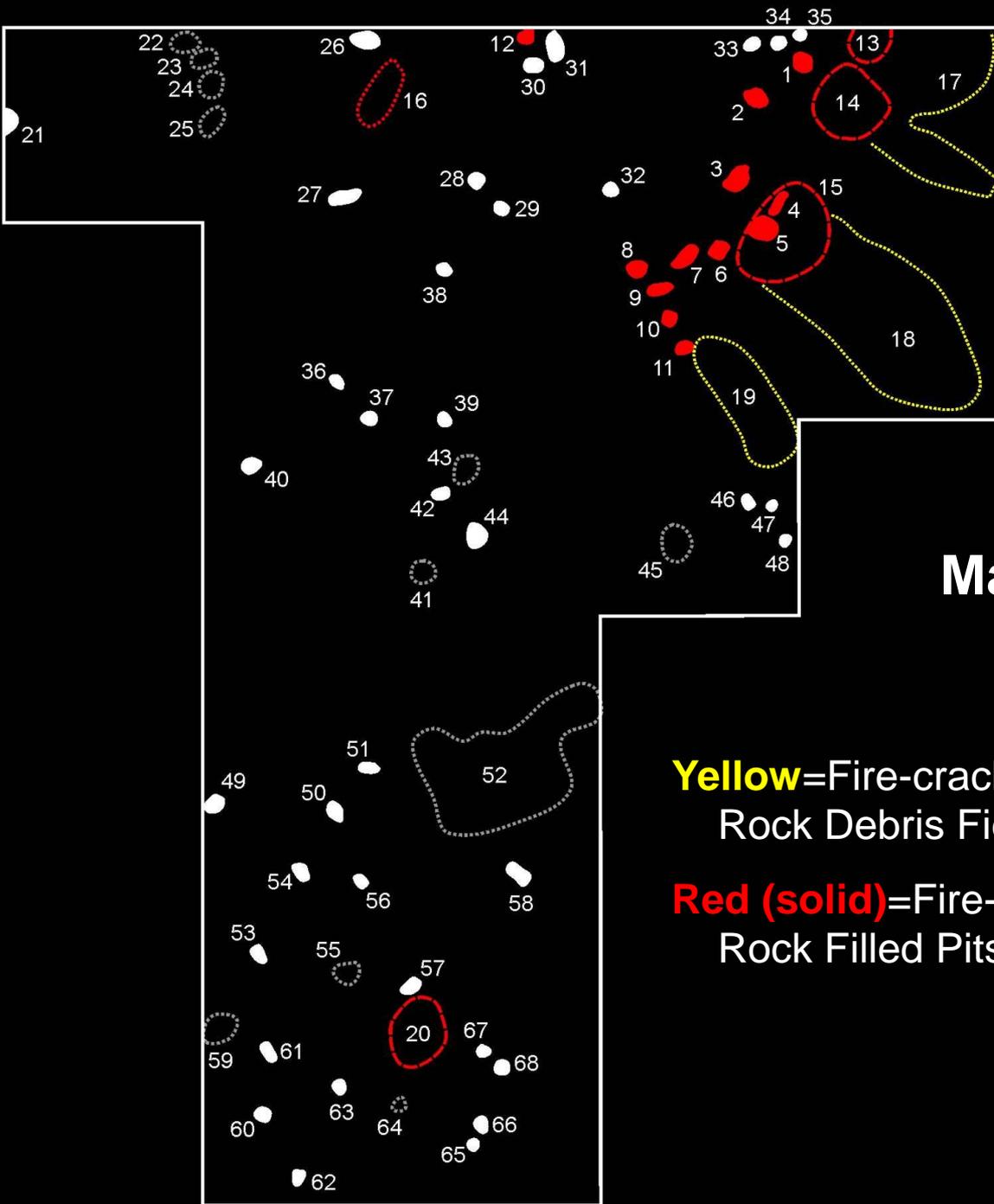
**Early Stage
Biface Blank**



Site B Magnetic Survey Results

about 1.8 acres



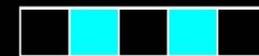


Site B Magnetic Survey Results

Yellow=Fire-cracked
Rock Debris Fields

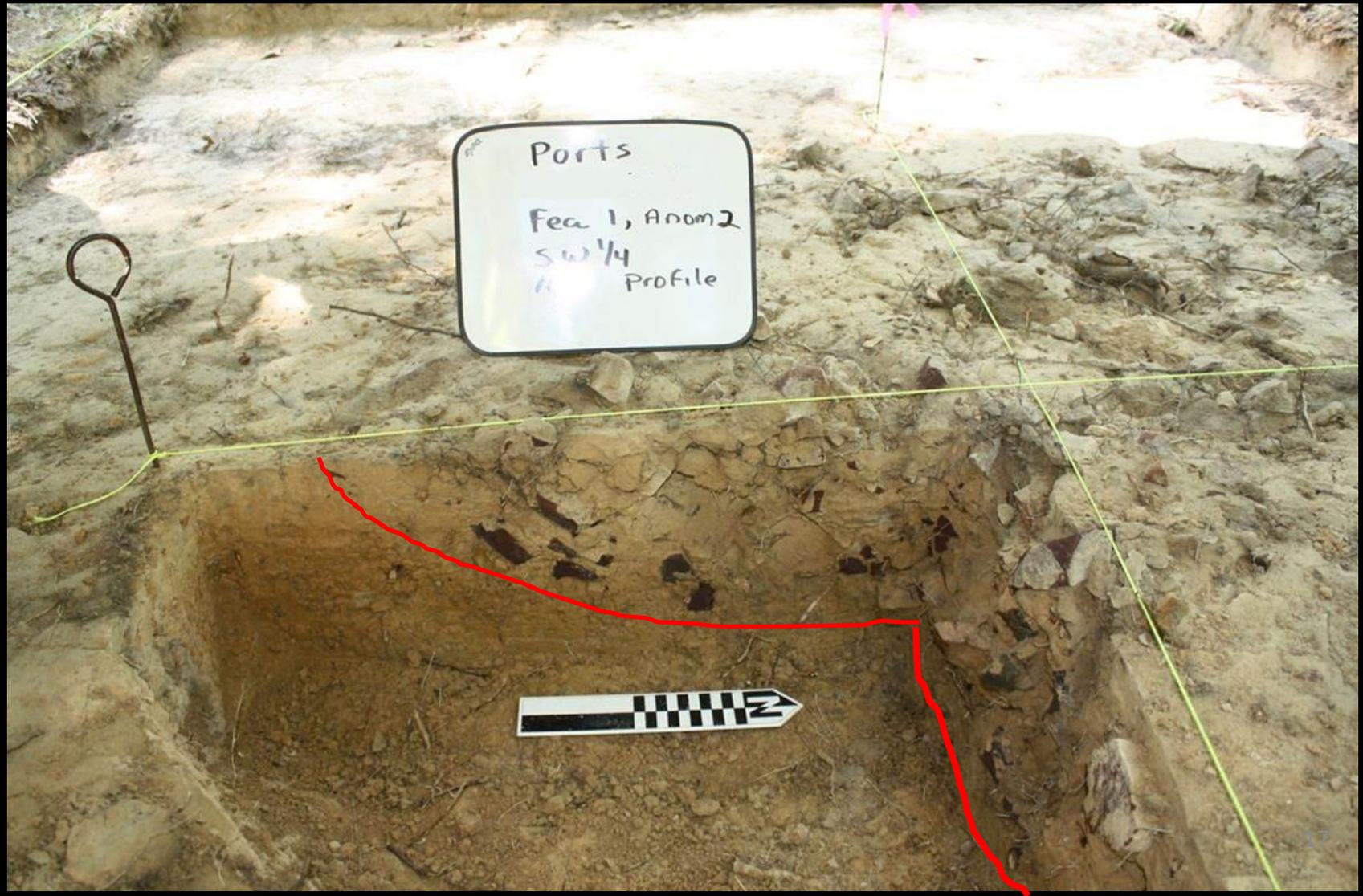
Red (solid)=Fire-cracked
Rock Filled Pits

65 feet



20 meters

Feature 1, Site B



Results

aces

:



rs

Site B Artifacts



Micro-Drill
Bits



Biface
Fragments



Flake
Tool



Chipped Sandstone
Hoe



Cup-stone/
Nutting Stone

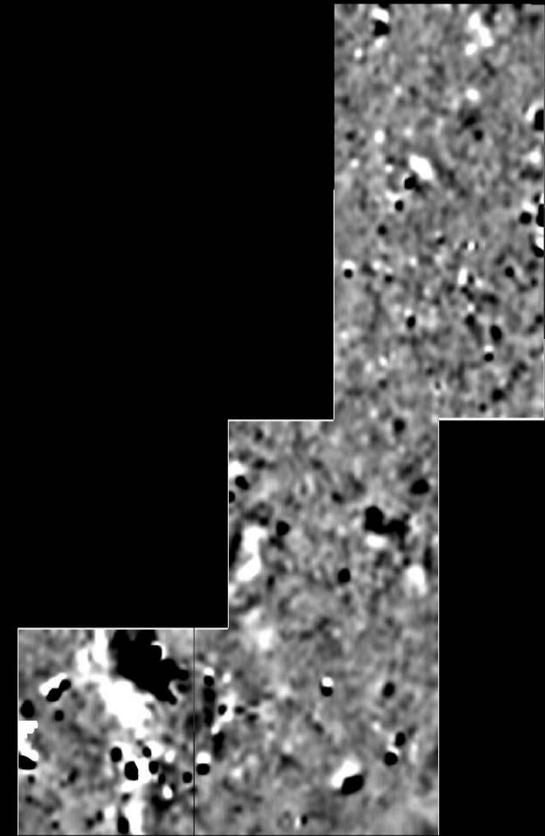
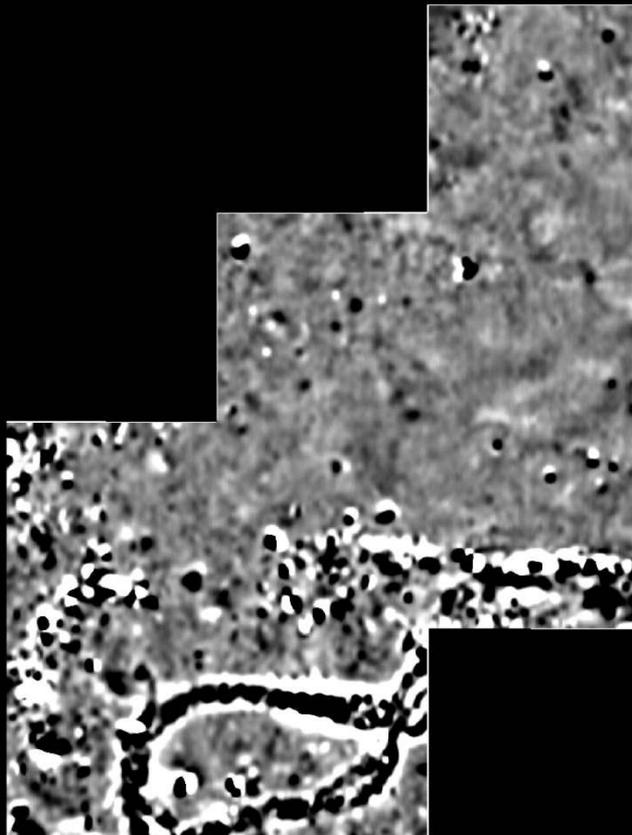


Core



Site C Magnetic Survey Results

about 1.3 acres



Mag. Gradient
Intensity



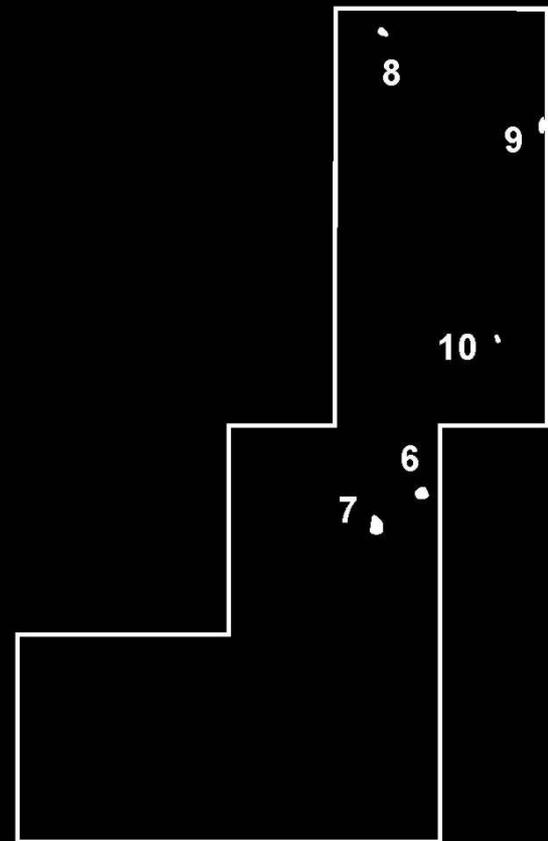
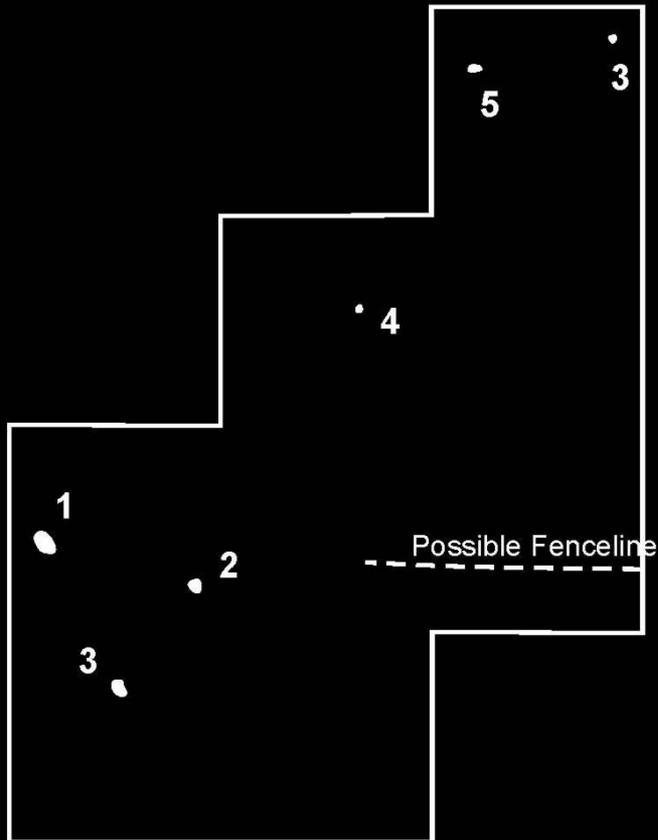
65 feet



20 meters

Site C Magnetic Survey Results

about 1.3 acres



65 feet

20 meters

Feature 2, Site C



Feature 2, Site C

Plan View @45 cmbs



+30 cmbs

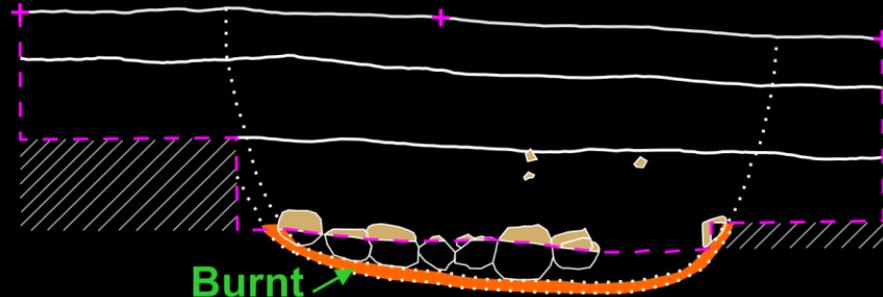
Planview @60 cmbs



Burnt Earth

+30 cmbs

East-West Profile

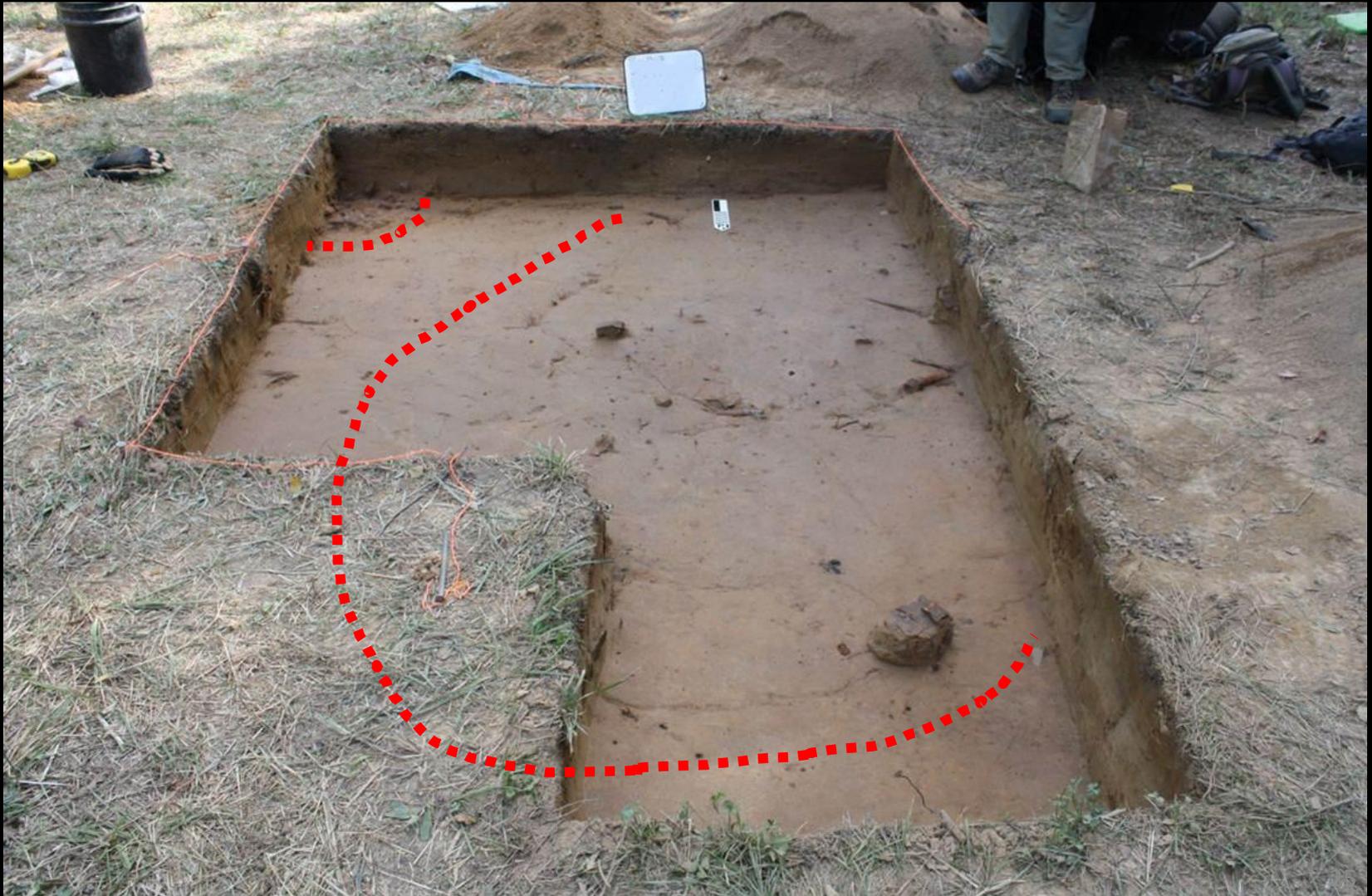


Burnt Earth

20 cm



Features 8 & 10, Site C



Feature 1, Site C



Site C Artifacts



Projectile Points
8000-6000 B.C.



**Burnt Biface
Fragments**
380-180 B.C.



**Grit-Tempered
Pottery
Fragments**
380-180 B.C.



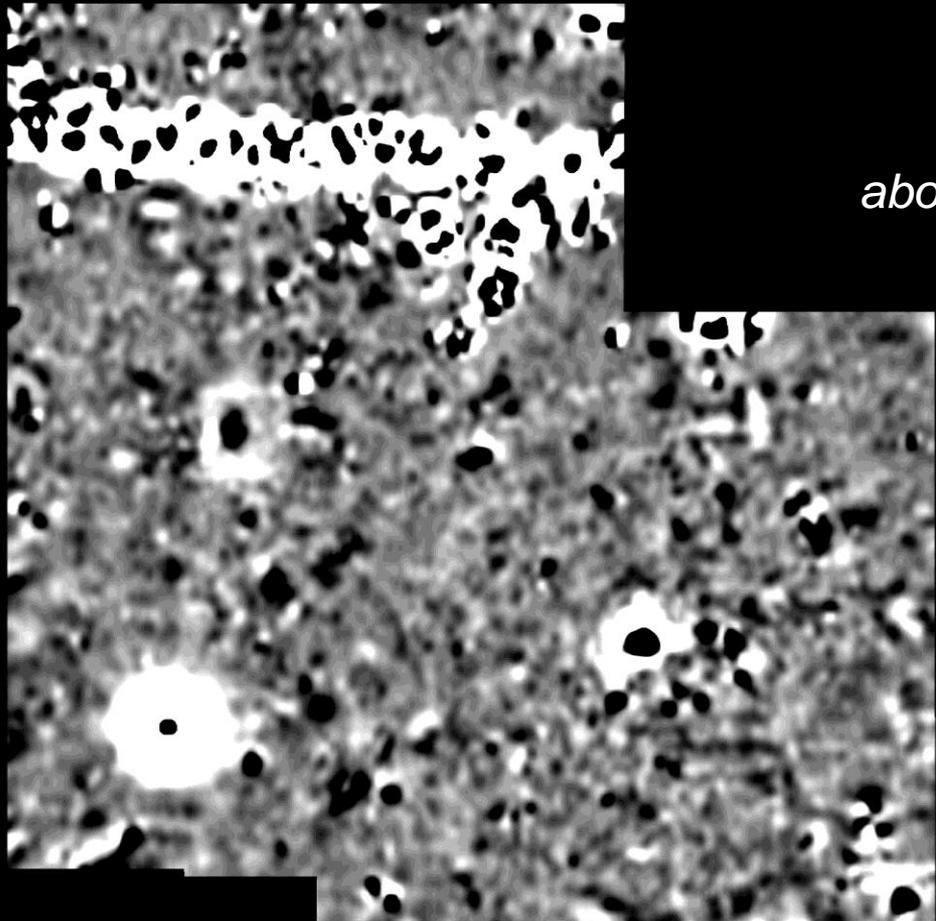
**Ground Stone
Celt Bit**
380-180 B.C.



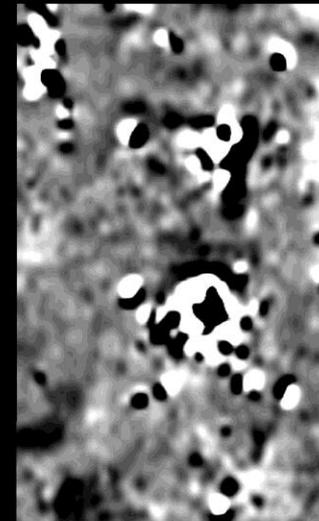
Core



Site D Magnetic Survey Results



about 1 acre



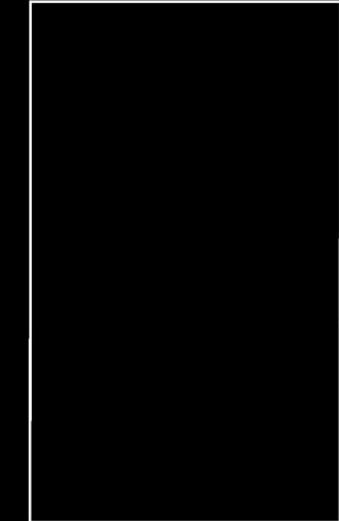
65 feet

20 meters

Site D Magnetic Survey Results



about 1 acre

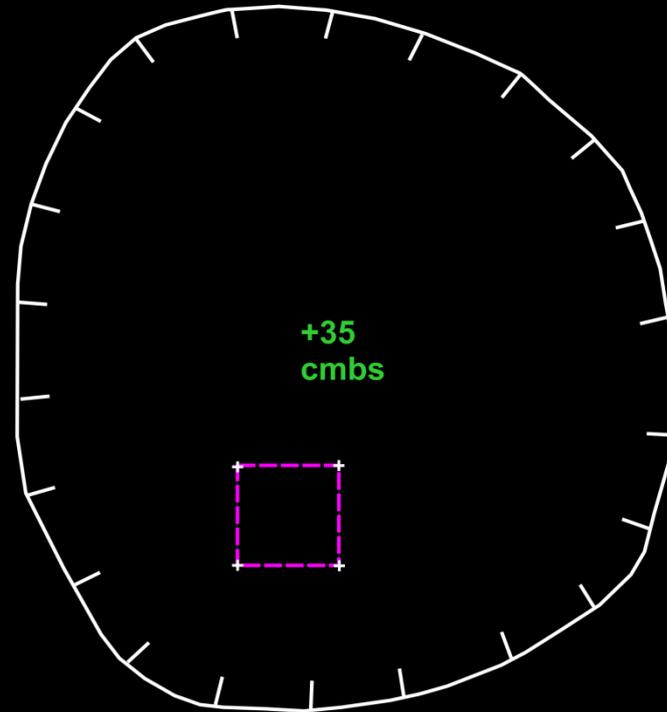


65 feet

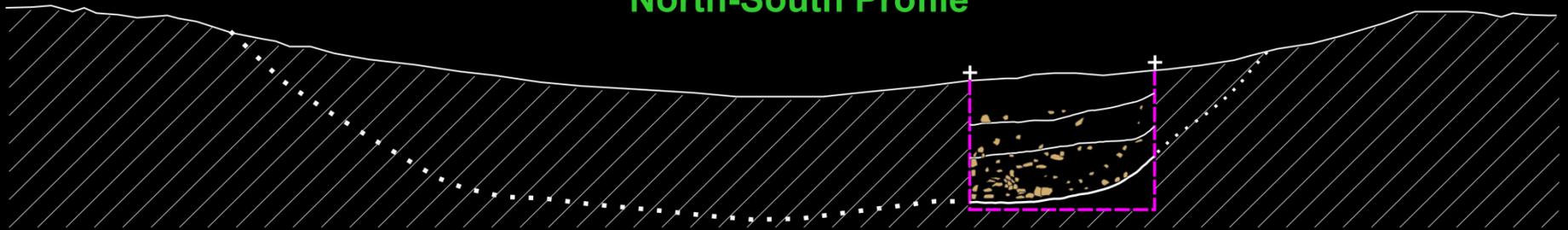
20 meters

Feature 8, Site D

Plan View



North-South Profile



Site D Artifacts



Core



Early & Late
Stage Biface Blanks



Cup-Stone/
Nutting Stone



Grit-Tempered
Pottery
Fragments
1500-300 B.C.



Flake Tools



Groundstone
Celt Fragments



Projectile
Point
Fragment



Hoe
Fragment



Unique Tools and Objects from Site D



Stone
Ball



Stone Cube
w/ Drilled Hole

Micro-Drill Technology



 = Actual Size

| Site | Temporal Diagnostic Artifacts | Radiometric Dates | Time Period |
|--------|--|--|--|
| Site A | Triangle Cluster P.Pt. (A.D. 700-1200) | A.D. 1260-1290 | Late Prehistoric |
| | Notched P.Pt. (4000-1700 B.C.) | | Late Archaic |
| Site B | Micro-Drill Technology (750-680 B.C.?) | 1000-840 B.C. 1010-900 B.C. | Late Archaic/ Early Woodland |
| | | 1290-1280 B.C. | Late Archaic |
| Site C | Thick, Grit-Tempered Pottery (1500-300 B.C.) | A.D. 660-780 380-180 B.C. 660-780 B.C. 810-760 B.C. | Late Woodland Early Woodland Late Archaic/ Early Woodland |
| | Projectile Points (8000-6000 B.C.) | 1010-830 B.C. 1210-1200 B.C. | Late Archaic Early Archaic |
| | Micro-Drill Technology (750-680 B.C.?) | | Early Woodland |
| | Thick, Grit-Tempered Pottery (1500-300 B.C.) | 750-680 B.C. 2460-2260 B.C. | Late Archaic |

Archaeological Interpretations

...based on about 1-2% excavation

- Unplowed Contexts
- Excellent Site Structure
- Intact Cultural Features
- Temporally Diagnostic Artifacts
- Datable Material (C-14 dates)
- Well-Defined Micro-Drill Technology

NRHP Eligibility

- **Criterion D:** *Sites that have yielded, or may be likely to yield, information important in prehistory...*