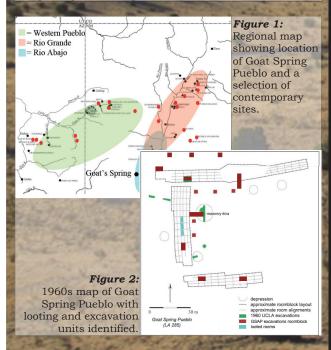
# At a Crossroads: The Goat Spring Archaeology Project, NM

## Background

- + Goat Spring Pueblo was located along the trail connecting Western Pueblo and Rio Abajo villages (Figure 1).
- + Goat Spring Archaeological Project (GSAP) explores late Pueblo period (A.D. 1300 - 1680) cultural continuity and transformation during. . . .
  - + a period of demographic reorganization and expansion of regional networks in the 1300s
  - + the early Spanish Colonial period
  - + the Pueblo Revolt of 1680

# **Objectives**

+Petrographic analysis to help explore production, identity, and participation in regional networks over time.



## The Sample

- + All rims (N=##) examined binocularly to identify temper categories
- + One to three sherds from each temper category thin sectioned for petrographic analysis (N=30)
- + Ten local rock samples thin sectioned for comparison
- + Quantitative and qualitative analysis to determine petrographic temper groups and other temper attributes

# 300+ years of Pottery Production and Exchange

Figure 3:
Glaze painted pottery produced at Goat Spring Pueblo



Figure 4:

rhyolite temper typical of locally produced pottery

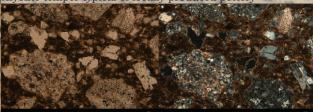
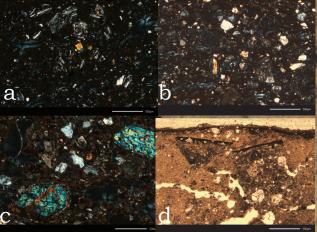


Figure 5:

examples of nonlocal tempers



#### Acknowledgments

David Killick played a vital role in producing images; Evan Giomi and Suzanne Vukobratovich helped with initial sherd sort; Dick Franta provided valuable research support; samples prepared by Quality Thin Section

www.qualitythinsections.com

Arizona State Museum

Deborah L. Huntley, Ph.D.

Tetra Tech, Inc.

### Production

- +Local potters produced both glaze painted and plain wares based on paste color and criteria of abundance (Figure 3)
- +Locally produced pottery was tempered with locally available intermediate volcanic rocks including tuff/ rhyolite (Figure 4)
- +relatively large grain size, void frequency, and poor clay mixing in some sherds suggests expedient production (Capone 2006 in *The Social Life of Pots*) by at least some village potters.

## Identity

- +Goat Spring Pueblo was located on the border of traditional Zuni and Piro territories leading to questions of village affiliation through time
- +All locally produced pottery was rock-tempered (a Rio Abajo Pueblo tradition) rather than sherd-tempered (a Zuni tradition)
- +Based on this diachronically consistent rock temper tradition, we infer at no time in its occupation was Goat Spring Pueblo a Zuni village

## Regional Networks

+9% of pottery recovered appear to be nonlocal and appear to come from multiple provenances (Table 1)

appear to come from multiple provenances (rable 1)		
Temper	Count	Region?
basalt (Figure 5a)	8	Central Rio Grande or Upper Rio Abajo
basalt & diabase	7	Rio Puerco
diabase	3	Central Rio Grande or Upper Rio Abajo
intermediate volcanics with rounded quartz (Figure 5b)	6	Lower Rio Abajo
gabbro? (Figure 5c)	1	Salinas
schist?	1	Albuquerque
quartz-plag sands	2	Central Rio Grande
grog (Figure 5d)	1	Western Pueblo

## **Future Directions**

- +Examine possibility of expedient technology more closely through further quantitative analysis on a larger
- sample size and determine frequency through time
- +Compare nonlocal samples with comparative slides
- from other regions to help tighten provenance +Explore whether regional networks change over time
- +Lead isotope analysis on glaze paint to understand
- resource procurement through time