Attachment 2

Site Reports
SITE NAME: Three Rivers Petroglyph National Historic Site
LOCATION: Otero Co., NM
SITE OWNED BY: Bureau of Land Management
ACCESS AUTHORIZED BY: Public access, fee paid
SITE VISIT DATE: 6/14/00
BY: A. Kuhn, K. Lickliter, S. Casey

MONUMENT DESCRIPTION: Petroglyph

ROCK DESCRIPTION: Porphyritic Andesite

AGE(S) OF PETROGLYPHS: Mogollon

INSCRIPTION TYPE OR METHOD: Pecked, some scraped

INSCRIBED SURFACE ASPECT
DIRECTIONS: All directions, mostly south and southwest
INCLINATIONS: 70 degrees to vertical

ROCK SURFACE FORM: Varies widely from flat to curved, moderately smooth-to-rough

INSCRIPTION GROOVE FORM
WIDTHS: 3-20mm
DEPTH: <2mm, most <1mm

WEATHERING: Rock surfaces patinated, petroglyphs not repatinated.

PHOTOS:

<table>
<thead>
<tr>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ThreeR~1 Assortment of superimposed figures including Aztec-like geometrics and a rabbit.</td>
</tr>
<tr>
<td>ThreeR~2 Images on adjacent boulders including representational fish, footprint, and circle with cross.</td>
</tr>
<tr>
<td>ThreeR~3 Concentric circles surrounded by dots; this figure appears many places.</td>
</tr>
<tr>
<td>ThreeR~4 Geometric patterns of multiple ages; pole pointing to oldest partly repatinated figure.</td>
</tr>
</tbody>
</table>

NOTES: This andesite has large (5-15mm) mafic phenocrysts that cause some of the
narrower inscriptions grooves to be partially obscured. The petroglyphs were made by pecking or scraping only deep enough to break through the patina. There are at least two generations of petroglyphs here, as shown by the superposition of petroglyphs. This site has suffered some vandalism in the form of recent scratching of petroglyph images.
SITE REPORT
WIPP PERMANENT MARKERS MONUMENT SURVEY

SITE NAME: Black Mesa
LOCATION: Doña Ana Co., NM
SITE OWNED BY: Stahmann Farms
ACCESS AUTHORIZED BY: Dave Lowry, Stahmann Farms
SITE VISIT DATE: 5/30/00, 6/2/00
BY: A. Kuhn, K. Lickliter

MONUMENT DESCRIPTION: Petroglyph

ROCK DESCRIPTION: Basalt

AGE(S) OF PETROGLYPHS: Archaic, Mogollon

INSCRIPTION TYPE OR METHOD: Scraped, some pecked

INSCRIBED SURFACE ASPECT
DIRECTIONS: Mostly north, east, and southeast
INCLINATIONS: 80 degrees to vertical

ROCK SURFACE FORM: Mostly wavy and smooth, some rough

INSCRIPTION GROOVE FORM
WIDTHS: 5-30mm
DEPTH: <1mm

WEATHERING: All old rock surfaces heavily repatinated, no apparent chemical weathering of the basalt minerals.

PHOTOS:

# Description
BlackM1 Mogollon spirit figure on wavy surface.
BlackM2 Archaic geometric barely visible on boulder face.
BlackM3 Zigzag line partly repatinated.
BlackM4 Barely visible images on boulders.
BlackM5 Archaic image obscured by patina and shadow.
BlackM6 Sunburst pattern on surface partly broken by spalling.
BlackM7 Same as BlackM6.
BlackM8 Totally repatinated image left of pencil point.
BlackM9  Zigzag pattern in shadow on boulder.
BlackM10 Very faint group of images to left of pointer.
BlackM11 Same as BlackM10.
BlackM12 Centipede image.
BlackM13 Same as BlackM12.
BlackM14 Orthogonal line pattern on curved rock face below shadow, heavily repatinated.
BlackM15 Orthogonal line pattern, repatinated, below and to right of pencil.
BlackM16 Rock face with partially repatinated zigzag lines and unpatinated scratches made by earthmoving equipment.

NOTES: This site is on Stahlmann Farms property at the foot of the east slope of Black Mesa. The petroglyphs are scattered among boulders at the foot of the slope, with heavy vegetation in many places obscuring the petroglyphs. The heavy patination makes most images difficult to see and even more difficult to photograph. All images are very shallow, made by scraping the surface which is patinated to a dark gray-black color. Some of the petroglyphs are pecked but have not broken through the patina completely. The unpatinated color of the rock is a medium-to-dark gray, so the patination does not produce a strong color contrast, which also makes many petroglyphs difficult to see.
SITE REPORT
WIPP PERMANENT MARKERS MONUMENT SURVEY

SITE NAME: City of Rocks State Park
LOCATION: Luna Co., NM
SITE OWNED BY: State of New Mexico
ACCESS AUTHORIZED BY: Brian Pender
SITE VISIT DATE: 6/2/00
BY: A. Kuhn, K. Lickliter

MONUMENT DESCRIPTION: Petroglyph

ROCK DESCRIPTION: Rhyolitic Welded Tuff

AGE(S) OF PETROGLYPHS: Mogollon

INSCRIPTION TYPE OR METHOD: Scraped

INSCRIBED SURFACE ASPECT
  DIRECTIONS: (see note)
  INCLINATIONS: Overhang surface

ROCK SURFACE FORM: Smooth, planar

INSCRIPTION GROOVE FORM
  WIDTHS: 10mm
  DEPTHS: <2mm

WEATHERING: Rock surface mostly patinated, petroglyph not repatinated

PHOTOS:

<table>
<thead>
<tr>
<th>#</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cityroc1</td>
<td>Unidentifiable image looking like an abstract hand or tree form.</td>
</tr>
<tr>
<td>Cityroc2</td>
<td>Same as Cityroc1.</td>
</tr>
<tr>
<td>Cityroc3</td>
<td>Same as Cityroc1&amp;2 using flash.</td>
</tr>
<tr>
<td>Cityrock4</td>
<td>Picture of rock surface showing three different levels of patination; pencil in right hand points to most recent, ruler points to intermediate age, darks areas have oldest patina.</td>
</tr>
</tbody>
</table>
NOTES: This site contains several pictographs but only one petroglyph, which is inscribed on an overhanging surface in a relatively sheltered location. Patterns of patination are informative; at least three ages or levels are present.
SITE REPORT
WIPP PERMANENT MARKERS MONUMENT SURVEY

SITE NAME: Conchas Lake State Park
LOCATION: San Miguel CO., NM
SITE OWNED BY: State of New Mexico
ACCESS AUTHORIZED BY: Park Superintendent
SITE VISIT DATE: 6/15/00
BY: A. Kuhn, K. Lickliter

MONUMENT DESCRIPTION: Petroglyph

ROCK DESCRIPTION: Sandstone

AGE(S) OF PETROGLYPHS: Archaic, some Anasazi

INSCRIPTION TYPE OR METHOD: Pecked

INSCRIBED SURFACE ASPECT
DIRECTIONS: West to south, one horizontal surface
INCLINATIONS: Vertical

ROCK SURFACE FORM: Curved, moderately rough; also one planar surface; horizontal surface is wavy

INSCRIPTION GROOVE FORM
WIDTHS: Up to 30mm
DEPTH: 1-5mm

WEATHERING: Some surfaces are patinated; others appear to be unweathered. Some petroglyphs are repatinated.

PHOTOS: # Description
Conchas1 Vertical face with concentric circles, comb patterns partly repatinated.
Conchas2 Partly repatinated dots, more recent curved line not repatinated.
Conchas3 Repatinated geometric figure, with fresh rock break to right.
Conchas4 Same as Conchas1.
Conchas5 Panel of geometric images partially repatinated except for more recent wavy line at right; high water indicated by top of grayish zone at bottom of photo.
Conchas6 Same view as Conchas5 shifted to the right.
Conchas7 Distant view of images in Conchas5&6.
Conchas8 Distant view of images just above high water mark.

NOTES: The south-facing petroglyph panel is fully repatinated. Patterns are all abstract geometrics except for one quadraped. Dominant patterns are concentric circles, diamonds cross patterns, wavy lines, dots, and parallel lines. Also, one animal form with pincers and one antlered head are probably Anasazi age. Some of the petroglyphs are below the high water line of the lake and are partially obscured with deposits from the lake water.
SITE REPORT
WIPP PERMANENT MARKERS MONUMENT SURVEY

SITE NAME: Cornudas Mountain
LOCATION: Doña Ana Co., NM
SITE OWNED BY: Stahmann Farms
ACCESS AUTHORIZED BY: Dave Lowry, Stahmann Farms
SITE VISIT DATE: 5/30/00, 6/2/00
BY: A. Kuhn, K. Lickliter

MONUMENT DESCRIPTION: Petroglyph

ROCK DESCRIPTION: Basalt

AGE(S) OF PETROGLYPHS: Archaic, Mogollon

INSCRIPTION TYPE OR METHOD: Scraped, Pecked

INSCRIBED SURFACE ASPECT
  DIRECTIONS: East, South and Southwest
  INCLINATIONS: 60 degrees to vertical

ROCK SURFACE FORM: Smooth

INSCRIPTION GROOVE FORM
  WIDTHS: 5-80mm
  DEPTHS: <2mm

WEATHERING: Older rock surfaces patinated to about 2mm. Extensive exfoliation in layers 2-10mm.

PHOTOS: # Description
  Cornud1 East-facing panel with Archaic and Mogollon images scraped and pecked through patina.
  Cornud2 Closeup of Cornud1 location, showing Archaic geometrics surrounded by Mogollon anthropomorphs.
  Cornud3 Southwest-facing surface with images partly lost to exfoliation.
  Cornud4 East-facing panel with several generations of images.
  Cornud5 Chain pattern on surface substantially exfoliated.
  Cornud6 Archaic pattern of parallel zigzag lines on partly exfoliated surface.
Cornud7  Panel of mixed images, mostly Archaic geometrics.
Cornud8  Same as Cornud7.
Cornud9&10 Pictographs.

NOTES: This site has extensive petroglyphs of both Archaic and Jornada (Mogollon) age, mostly scraped, some pecked, through a 2mm patina layer. Extensive exfoliation affects rock surface to depths of 5-10mm. All Jornada and older petroglyphs are at least partially repatinated. This site is exposed to the south quadrants, sheltered from the north quadrants. Phenocrysts of nepheline (?) appear to control the depth of exfoliation.
SITE NAME: Eby Ranch
LOCATION: Faywood, NM
SITE OWNED BY: Larry Eby
ACCESS AUTHORIZED BY: Larry Eby
SITE VISIT DATE: 6/1/00
BY: A. Kuhn, K. Lickliter

MONUMENT DESCRIPTION: Petroglyph

ROCK DESCRIPTION: Rhyolitic Welded Tuff

AGE(S) OF PETROGLYPHS: Archaic, Mogollon, maybe some Apache, recent

INSCRIPTION TYPE OR METHOD: Pecked

INSCRIBED SURFACE ASPECT
   DIRECTIONS: Northwest to southwest
   INCLINATIONS: 45 degrees to vertical

ROCK SURFACE FORM: Wavy, smooth to rough

INSCRIPTION GROOVE FORM
   WIDTHS: 2-80mm
   DEPTHS: Most <2mm, some up to 5mm

WEATHERING: Old rock surfaces heavily patinated, some petroglyphs completely repatinated.

PHOTOS:
   # Description
   EBY1 Concentric circles completely repatinated on wavy rough surface.
   EBY2 Hand patterns, one partly repatinated, on wavy surface.
   EBY3 Spirit form on rough, partially fractured surface.
   EBY4 Recent image of house on wavy rough surface.
   EBY5 Recent house image in lower right, recent donkey in center, and repatinated circle pattem in upper left, showing contrast in appearance of very old vs. recent inscriptions.
   EBY6 Partially repatinated geometric image.
EBY7  Pencil and pole point to limits of large circle with horizontal line, partially repatinated, with lichen growth.
EBY8  Intricate diamond pattern, repatinated, with some lichen growth.
EBY9  Wider view of EBY8 image, with recent inscription to left.
EBY10 Rough patinated surface with extensive scaling of patinated surface; pinwheel and other geometric patterns.
EBY11 Anthropomorph to right of pencil, mostly repatinated.
EBY12 Repatinated circle with cross right of pencil.
EBY13 Repatinated concentric circles right of pencil and above pencil.

NOTES:
This site is on private property at the crest of a low hill capped by the welded tuff. Petroglyphs face primarily toward the western quadrants and are fully exposed to sun, wind and rain from that direction. The Archaic images and some of the Mogollon images are completely repatinated; some Mogollon images are partly repatinated. Patina development is apparently more uniform here than at other sites with the same kind of rock. Recent images were apparently made by local school children within the last 50 years.
SITE REPORT
WIPP PERMANENT MARKERS MONUMENT SURVEY

SITE NAME: El Morro National Monument
LOCATION: Cibola Co., NM
SITE OWNED BY: National Park Service
ACCESS AUTHORIZED BY: Public access, fee paid
SITE VISIT DATE: 6/13/00
BY: A. Kuhn, K. Lickliter, S. Casey

MONUMENT DESCRIPTION: Petroglyph

ROCK DESCRIPTION: Sandstone

AGE(S) OF PETROGLYPHS: Anasazi to recent

INSCRIPTION TYPE OR METHOD: Chiseled, pecked

INSCRIBED SURFACE ASPECT
  DIRECTIONS: East, south, west, most north
  INCLINATIONS: Vertical

ROCK SURFACE FORM: Planar, smooth-to-rough

INSCRIPTION GROOVE FORM
  WIDTHS: Various, up to 50mm
  DEPTHS: Generally 3-10mm, some larger

WEATHERING: Repatinated completely on oldest petroglyphs. No repatination on historic age inscriptions. Some spalling. Lichens only on oldest petroglyph surfaces.

PHOTOS:

<table>
<thead>
<tr>
<th>#</th>
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<tbody>
<tr>
<td>ElMorro1</td>
<td>Patinated surface with fully-repatinated images of hands, quadrupeds, anthropomorphs.</td>
</tr>
<tr>
<td>ElMorro2</td>
<td>Line of mountain goats on unpatinated surface.</td>
</tr>
<tr>
<td>ElMorro3</td>
<td>Panel of unweathered surface with many quadruped forms.</td>
</tr>
<tr>
<td>ElMorro4</td>
<td>Zigzag pattern in unweathered surface.</td>
</tr>
<tr>
<td>ElMorro5</td>
<td>Same as ElMorro4.</td>
</tr>
<tr>
<td>ElMorro6</td>
<td>Concentric circles left of stick, scraped letters to right.</td>
</tr>
</tbody>
</table>
NOTES: This site has many generations of inscriptions from Anasazi to recent. Anasazi images include pecked handprints, anthropomorphic zigzag patterns, and concentric circles. Some historic age letters have dark gray-to-black lichens in them. The sandstone is very fine-grained and massive, making inscribing relatively easy compared to the other sites surveyed.
SITE REPORT
WIPP PERMANENT MARKERS MONUMENT SURVEY

SITE NAME: Hueco Tanks State Park
LOCATION: Hudspeth Co., TX
SITE OWNED BY: State of Texas
ACCESS AUTHORIZED BY: Public access – fee paid
SITE VISIT DATE: 5/31/00
BY: A. Kuhn, K. Lickliter

MONUMENT DESCRIPTION: Petroglyph

ROCK DESCRIPTION: Diorite

AGE(S) OF PETROGLYPHS: Mogollon

INSCRIPTION TYPE OR METHOD: Pecked

INSCRIBED SURFACE ASPECT
  DIRECTIONS: East, horizontal
  INCLINATIONS: 60 degrees to horizontal

ROCK SURFACE FORM: Wavy and smooth

INSCRIPTION GROOVE FORM
  WIDTHS: 5-20mm
  DEPTHS: <1mm

WEATHERING: Relatively uniform patination of exposed rock surfaces, exfoliation to depths of several mm.

PHOTOS: # Description
  Hueco1 Two x-shaped “bird tracks” pecked into patina.
  Hueco2 Images of tracks pecked into patina, with exfoliation at upper right corner.
  Hueco3 Very faint bird tracks pecked into patina, exfoliation visible at top of photo.
  Hueco4 Circle with inscribed cross, exfoliation to upper right.
  Hueco5 Daisy chain of circles and other geometrics superimposed by recent writing; images disrupted by exfoliation at lower right.
Hueco6      Same image as Hueco5.

NOTES: At this state park there are a few petroglyphs, shown above, and many pictographs not surveyed. The petroglyphs have been pecked into but not through the patina. Exfoliation is gradually removing the inscribed surfaces. Exfoliation layers are 2-5mm thick in most places, locally deeper.
SITE REPORT
WIPP PERMANENT MARKERS MONUMENT SURVEY

SITE NAME: I-X Ranch
LOCATION: Lincoln Co., NM
SITE OWNED BY: State of New Mexico, Bill Stephenson
ACCESS AUTHORIZED BY: State Land Office, Bill Stephenson
SITE VISIT DATE: 6/14/00
BY: A. Kuhn, K. Lickliter, S. Casey

MONUMENT DESCRIPTION: Petroglyph

ROCK DESCRIPTION: Porphyritic Andesite

AGE(S) OF PETROGLYPHS: Archaic, Mogollon

INSCRIPTION TYPE OR METHOD: Pecked, Scraped

INSCRIBED SURFACE ASPECT
  DIRECTIONS: Mostly south to southwest
  INCLINATIONS: 80 degrees

ROCK SURFACE FORM: Planar, rough

INSCRIPTION GROOVE FORM
  WIDTHS: 5-50mm
  DEPTHS: 1-2mm

WEATHERING: Oldest petroglyphs are fully repatinated. Successive generations partially repatinated. Some lichen growth in inscription grooves.

PHOTOS:

<table>
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<tr>
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<th>Description</th>
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<tbody>
<tr>
<td>Lincoln1</td>
<td>Multiple images of different ages.</td>
</tr>
<tr>
<td>Lincoln2</td>
<td>Multiple images in rough, broken surface; surface spalling older than images.</td>
</tr>
<tr>
<td>Lincoln3</td>
<td>Older repatinated images with superimposed unrepatinated images.</td>
</tr>
<tr>
<td>Lincoln4</td>
<td>Broken concentric circle pattern, partly repatinated.</td>
</tr>
<tr>
<td>Lincoln5</td>
<td>Multiple images on fractured, partially-spalled surface, older repatinated images predominate.</td>
</tr>
</tbody>
</table>
Lincoln6 Pencil pointing to Archaic repatinated circle; pole pointing to Archaic cone pattern; more recent spiral pattern at far right shows difference in patination.

Lincoln7 Totally repatinated concentric circles at left; more recent unrepatinated circles at right.

Lincoln8 Archaic comb pattern with some lichen growth.

Lincoln9 Wide angle of Lincoln8, including other comb patterns.

Lincoln10 Large south-facing panel with multiple images of at least two generations.

NOTES: This site is primarily the dip slope of an andesite dike, with the dip slope containing large panels of multigenerations of petroglyphs. The oldest are fully repatinated Archaic abstract geometrics. Typical Archaic images such as concentric circles, parallel lines, and connected circles are present in at least two generations and may also have been repeated by Mogollon Indians. The large panel faces are fully exposed to the sun and to wind and rain coming from the southern quadrants.
SITE REPORT
WIPP PERMANENT MARKERS MONUMENT SURVEY

SITE NAME: McNaughton (formerly Simmons) Ranch
LOCATION: Luna Co., NM
SITE OWNED BY: McNaughton
ACCESS AUTHORIZED BY: Russell Baker
SITE VISIT DATE: 6/1/00
BY: A. Kuhn, K. Lickliter

MONUMENT DESCRIPTION: Petroglyph

ROCK DESCRIPTION: Rhyolite (welded tuff)

AGE(S) OF PETROGLYPHS: Archaic, Mogollon, Apache, recent

INSCRIPTION TYPE OR METHOD: Pecked

INSCRIBED SURFACE ASPECT
DIRECTIONS: Primarily east to southeast, some southwest and northeast
INCLINATIONS: 60 degrees to vertical

ROCK SURFACE FORM: Rough wavy-to-curving surfaces

INSCRIPTION GROOVE FORM
WIDTHS: 5-40mm
DEPTHS: Most <1mm, some up to 3mm

WEATHERING: Rock surfaces moderately patinated, some spalling.

PHOTOS:

<table>
<thead>
<tr>
<th>#</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>Luna1-1</td>
<td>Horned lizard on patinated surface, fragment of rock in hand shows color of fresh unpatinated rock.</td>
</tr>
<tr>
<td>Luna1-2</td>
<td>Multiple images, including concentric circles, on southwest-facing surface.</td>
</tr>
<tr>
<td>Luna1-3</td>
<td>Southeast-facing weathered surface with mostly Archaic images including concentric circles, sunbursts, and fishnet patterns.</td>
</tr>
<tr>
<td>Luna1-4</td>
<td>East-facing surface, partially repatinated wavy lines.</td>
</tr>
<tr>
<td>Luna1-5</td>
<td>Panel of mostly Archaic images with recent spray-painted graffiti, facing northeast.</td>
</tr>
</tbody>
</table>
Luna1-6  Set of wavy parallel lines (Archaic) on curved rough surface, with other abstract and animal images nearby.
Luna1-7  Chain pattern of circles on patinated but partly eroded surface.
Luna1-8  Abstract image on east-facing rough surface.
Luna1-9  Panel with geometric abstractions, concentric circles at end of pointer, largely obscured by surface roughness.
Luna1-10 Archaic concentric circles and diamond patterns.
Luna1-11 Archaic wavy parallel lines on rough surface.

NOTES: This site contains both Archaic and Mogollon petroglyphs. The texture of the rhyolitic welded tuff makes some of the images difficult to see because the depth of inscription is less than the amplitude of surface roughness. Some vandalism has occurred recently. Pictures show that the rock is somewhat vuggy in places, making the rock more porous than it is in neighboring locations. The surfaces with petroglyphs are oriented in many different directions and seem to have no clear differences in degree of patination or amount of weathering; also no distinction in preservation of the petroglyphs based on aspect.
SITE NAME: Frying Pan Canyon
LOCATION: Luna Co., NM
SITE OWNED BY: Bureau of Land Management
ACCESS AUTHORIZED BY: Sara Schlanger
SITE VISIT DATE: 6/1/00
BY: A. Kuhn, K. Lickliter

MONUMENT DESCRIPTION: Petroglyph
ROCK DESCRIPTION: Sandstone
AGE(S) OF PETROGLYPHS: Archaic, Mogollon
INSCRIPTION TYPE OR METHOD: Pecked

INSCRIBED SURFACE ASPECT
DIRECTIONS: Northeast, southeast, south-to-west
INCLINATIONS: 30 degrees to vertical, horizontal, some overhangs

ROCK SURFACE FORM: Mostly planar and rough, some curved

INSCRIPTION GROOVE FORM
WIDTHS: 10-15mm
DEPTH: 2mm

WEATHERING: Rock surfaces heavily patinated, some spalling.

PHOTOS:
Luna2-1 Has relief cross forms through patina, not repatinated.
Luna2-2 Wolf tracks pecked through patina, on heavily fractured surface.
Luna2-3 Concentric circles in pinwheel form on rough surface.
Luna2-4 Archaic diagonal network, linked circles and comb forms overlain by Mogollon human footprints and other life forms on rough curved surface (note spall of rock left of pointer).
Luna2-5 Starburst and other geometrics on rough fractured surface.
Luna2-6 Concentric circles on horizontal surface, slightly repatinated.
Luna2-7 Southeast-facing rough fractured surface with animal forms.
Luna2-8  Flat surface, rough and fractured, with Archaic and Mogollon images.
Luna2-9  Archaic cross form, Mogollon footprints and bird tracks, on rough surface.
Luna2-10 Ghost image on rough horizontal surface.
Luna2-11 Mogollon images on remnant patinated surface surrounded by spalled and scoured surfaces.

NOTES: Site is located on the west slope of Frying Pan Canyon just north of an old stock tank dam. Petroglyphs are on intact rock outcrops and boulders of a hard ferruginous sandstone. All surfaces are relatively rough and fractured. Many petroglyphs on horizontal surfaces on the tops of boulders and outcrops. A combination of Archaic abstract geometrics, with Mogollon images of footprints, animals, anthropomorphs. Very few images are completely repatinated, but many are partially repatinated, especially Archaic images.
SITE REPORT
WIPP PERMANENT MARKERS MONUMENT SURVEY

SITE NAME: Mystery Stone
LOCATION: Valencia CO., NM
SITE OWNED BY: State of New Mexico
ACCESS AUTHORIZED BY: State Land Office
SITE VISIT DATE: 6/13/00
BY: A. Kuhn, K. Lickliter, S. Casey

MONUMENT DESCRIPTION: Petroglyph

ROCK DESCRIPTION: Andesite

AGE(S) OF PETROGLYPHS: Anasazi, recent

INSCRIPTION TYPE OR METHOD: Pecked, chiseled

INSCRIBED SURFACE ASPECT
DIRECTIONS: Northwest to northeast
INCLINATIONS: 10 degrees past vertical for Mystery Stone, 60-80 degrees elsewhere

ROCK SURFACE FORM: Wavy to planar, and smooth

INSCRIPTION GROOVE FORM
WIDTHS: Mystery Stone: V-shaped grooves 3-5mm at top
Others: 10-40mm
DEPTHS: Mystery Stone: 1-2mm
Others: <1mm

WEATHERING: Mystery Stone face slightly patinated, inscriptions unpatenated. Anasazi petroglyphs slightly repatinated.

PHOTOS:
# Description
Mystery1 The “Mystery Stone” inscription.
Mystery2 Quadraped with long tail on patinated surface with fragments of other images next to recent breaks in the rock surface.
Mystery3 Crude face on patinated surface.
NOTES: The Mystery Stone has V-shaped grooves with sharply-defined sides and edges, and some rock dust can still be seen in the bottoms of the grooves. This inscription was obviously made with a metallic tool and, therefore, can’t be older than historic age or not more than 400 years. The other petroglyphs in the vicinity are crudely done and penetrate only into the patina. These are consistent with Anasazi and older petroglyphs surveyed elsewhere.
SITE REPORT
WIPP PERMANENT MARKERS MONUMENT SURVEY

SITE NAME: Petroglyph National Monument
LOCATION: Albuquerque, NM
SITE OWNED BY: National Park Service
ACCESS AUTHORIZED BY: Public access
SITE VISIT DATE: 6/12/00
BY: A. Kuhn, K. Lickliter, S. Casey

MONUMENT DESCRIPTION: Petroglyph

ROCK DESCRIPTION: Basalt

AGE(S) OF PETROGLYPHS: Archaic, Anasazi

INSCRIPTION TYPE OR METHOD: Pecked, scraped

INSCRIBED SURFACE ASPECT
DIRECTIONS: Mostly south and southeast, some northwest
INCLINATIONS: 45 degrees to vertical

ROCK SURFACE FORM: Planar to curved, mostly rough, some smooth

INSCRIPTION GROOVE FORM
WIDTHS: Mostly 3-30mm, one image 40-110mm
DEPTHS: Most <1mm, none >2mm

WEATHERING: Natural rock surfaces extensively patinated. Petroglyphs unpatinated to partially repatinated.

PHOTOS: #
PETRNM1 Various geometric images on a curved, rough surface.
PETRNM2 Partially repatinated images on a rough surface.
PETRNM3 Circles scraped partly through the patina on a curved surface.
PETRNM4 Same as #3.
PETRNM5 Abstract images on a rough, curved surface, partially repatinated.
PETRNM6 Same as #5.
PETRNM7 Large geometric pattern between walking stick and scale obscured by repatination and light reflection.
PETRNM8  Rough surface obscuring repatinated image.
PETRNM9  Surface with variable texture and random line images with wedge-shaped piece spalled from surface.
PETRNM10 Image partially broken through patina surface.
PETRNM11 Circle with tree partially obscured by reflected sunlight.
PETRNM12 Various images pecked through patina on uneven surface.
PETRNM13 Closeup of cross form in previous photo.
PETRNM14 Geometric image partially repatinated.

NOTES:  Petroglyphs at this site, a side canyon of the Monument, are described by park personnel as being “a couple thousand years old.” The petroglyphs occur among scattered boulders in a narrow canyon. The level of exposure of the petroglyphs varies widely, depending on position in the canyon and orientation. Some of the photographs did not capture the image clearly, due to intense mid-day sunlight. Surfaces here are among the roughest seen at any of the surveyed sites. Several generations of petroglyphs are represented, some clearly Anasazi and others apparently older.
SITE REPORT
WIPP PERMANENT MARKERS MONUMENT SURVEY

SITE NAME: Rowe Mesa Site #1
LOCATION: San Miguel Co., NM
SITE OWNED BY: U.S. Forest Service
ACCESS AUTHORIZED BY: Brent Abel, USFS
SITE VISIT DATE: 6/16/00
BY: A. Kuhn, K. Lickliter

MONUMENT DESCRIPTION: Petroglyph

ROCK DESCRIPTION: Sandstone

AGE(S) OF PETROGLYPHES: Archaic

INSCRIPTION TYPE OR METHOD: Pecked

INSCRIBED SURFACE ASPECT
  DIRECTIONS: Horizontal
  INCLINATIONS: Horizontal

ROCK SURFACE FORM: Irregular, wavy

INSCRIPTION GROOVE FORM
  WIDTHS: 2-80mm
  DEPTHS: 1-4mm

WEATHERING: All petroglyphs are repatinated. Iron oxide concentrated in fossil crab burrows now form resistant knobs at the surface.

PHOTOS:
  #   Description
  Rowe A1  Figure that was half cover by soil (right half, below pencil) and half exposed. Except for soil in grooves of previously covered half, halves are identically preserved.
  Rowe A2  Cluster of petroglyphs previously covered with soil, prior to archeological excavation.
  Rowe A3  Cluster of petroglyphs not previously covered with soil.
  Rowe A4  Cluster of petroglyphs on surface that is part of water course.
  Rowe A5  Concentric circles, right of pencil, heavily repatinated.
NOTES: According to Brent Abel, soil over the petroglyphs is at least 3000 years old. Charcoal at the site has been dated at 5300 years, patina at 5970 years. In the area not previously covered by soil, some petroglyphs are repatinated, some not. Some repatinated petroglyphs have lichen growth. This site has a starburst pattern unlike patterns seen elsewhere. Solstice and equinox marks have been identified here. Site is in an area of P-J woodland with very little surface slope, but a shallow drainage course runs across this site. Most of the ground in the vicinity is soil-covered. Soil cover over the petroglyphs has been partially removed by archeologists to expose some of the buried petroglyphs, one of which was only half-buried by soil prior to excavation. The petroglyph shown in Photo #Rowe 1-1 was covered in the area next to the pencil in the photo, exposed in the other half. Petroglyphs are generally in fair condition.
SITE REPORT
WIPP PERMANENT MARKERS MONUMENT SURVEY

SITE NAME: Rowe Mesa Site #2
LOCATION: San Miguel Co., NM
SITE OWNED BY: U.S. Forest Service
ACCESS AUTHORIZED BY: Brent Abel, USFS
SITE VISIT DATE: 6/16/00
BY: A. Kuhn, K. Lickliter

MONUMENT DESCRIPTION: Petroglyph

ROCK DESCRIPTION: Sandstone

AGE(S) OF PETROGLYPHS: Archaic

INSCRIPTION TYPE OR METHOD: Pecked

INSCRIBED SURFACE ASPECT
  DIRECTIONS: Horizontal
  INCLINATIONS: Horizontal

ROCK SURFACE FORM: Knobby, wavy

INSCRIPTION GROOVE FORM
  WIDTHS: 10-30mm
  DEPTHS: 3-5mm

WEATHERING: All petroglyphs are repatinated. Rock surface is differentially weathered, leaving iron oxide concentrations around fossil crab burrows sticking up. This weathering predates the petroglyphs, as evidenced by the petroglyphs that include the fossil burrows as part of the petroglyph image.

PHOTOS:
Rowe B1 Cluster with “bird tracks”, sun burst, wavy lines, circle.
Rowe B2 Cluster with spiral, orthogonal lines, dendritic patterns extending under soil cover to lower left.
Rowe B3 Partially eroded petroglyphs with adjacent soil cover.
Rowe B4 Petroglyph with pencil in one groove, to illustrate depth.
Rowe B5 Petroglyph grooves across natural knob in rock.
NOTES: This site is similar in most respects to Rowe Mesa #1, except that there is no drainage course. Generally, the condition of the petroglyphs here is slightly poorer than at Rowe Mesa #1. The sandstone was identified by Brent Abel as the Santa Rosa Sandstone of Triassic age. It is well indurated and forms the cap rock of the mesa. The petroglyphs here, as at the nearby Rowe Mesa #1 site, may have been broadened and deepened by erosion or weathering, but the repatinated grooves of the inscriptions show that the weathering/erosion processes have been very slow.
SITE REPORT
WIPP PERMANENT MARKERS MONUMENT SURVEY

SITE NAME: Tonuco Mountain
LOCATION: Doña Ana Co., NM
SITE OWNED BY: Bureau of Land Management
ACCESS AUTHORIZED BY: Sara Schlanger
SITE VISIT DATE: 5/30/00
BY: A. Kuhn, K. Lickliter

MONUMENT DESCRIPTION: Petroglyph

ROCK DESCRIPTION: Sandstone

AGE(S) OF PETROGLYPHS: Archaic, Mogollon

INSCRIPTION TYPE OR METHOD: Pecked

INSCRIBED SURFACE ASPECT
DIRECTIONS: All compass points
INCLINATIONS: 20 degrees to vertical

ROCK SURFACE FORM: Flat to wavy, smooth, some fractures

INSCRIPTION GROOVE FORM
WIDTHS: 7-20mm
DEPTH: 1-5mm

WEATHERING: Old rock surfaces patinated to reddish-brown to steel gray color, mottled together in some places. Extensive growth of chartreuse colored lichens.

PHOTOS: # Description
Tonuco1 Concentric circles partly lost to spalling/erosion, repatinated.
Tonuco2 Diamond and orthogonal line patterns, partly repatinated.
Tonuco3 At least two generations of images, Archaic and Mogollon, latter less repatinated than former.
Tonuco4 Archaic patterns, including one dendritic pattern with lichens.
Tonuco5 Parallel wavy lines partly repatinated and lichens in grooves.
Tonuco6 Sunburst and other Archaic patterns, repatinated.
Tonuco7 Archaic geometrics, partly repatinated.
Tonuco8  Large boulder with mottled patination, Archaic and Mogollon images.

Tonuco9  Mogollon head with chartreuse lichens in inscription grooves.

NOTES: This site is in a steep-walled canyon that runs southeast to northwest. The sandstone cap rock has broken into boulders that line the north slope of the canyon, and the petroglyphs are concentrated on a group of these boulders. The patina varies randomly from reddish-brown to steel gray, with the latter being thicker. Petroglyphs are pecked through the patina to a depth of up to 5mm. The Archaic petroglyphs are mostly completely repatinated, and the Mogollon petroglyphs are at least partly repatinated. Chartreuse lichens are common.