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# FIELD NOTES

OF THE

DEPENDENT RESURVEY OF THE

BOUNDARIES OF INSCRIPTION HOUSE RUIN,

NAVAJO NATIONAL MONUMENT

IN UNSURVEYED

TOWNSHIP 38 NORTH, RANGE 14 EAST

Of the GILA AND SALT RIVER Meridian,

In the State of ARIZONA

## EXECUTED BY

LEONARD W. MURPHY

CADASTRAL SURVEYOR

Under special instructions dated October 14, 19 68, which provided for the surveys  
included under Group Number 504, approved October 16, 1968,  
and assignment instructions dated October 14, 19 68.

Survey commenced October 17, 19 68

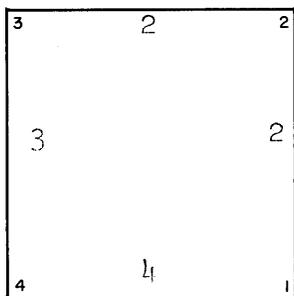
Survey completed October 21, 19 68

# INDEX DIAGRAM

Township \_\_\_\_\_, Range \_\_\_\_\_,

6	5	4	3	2	1
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Unsurveyed Township 38 North, Range 14 East  
 Inscription House Ruin, Navajo National Monument



Township 38 North, Range 14 East  
Gila and Salt River Meridian, Arizona

CHAINS

The boundaries of Inscription House Ruin, Navajo National Monument were originally surveyed by W. B. Douglass, in 1909.

The following field notes are those of a dependent re-survey of the boundaries of Inscription House Ruin, Navajo National Monument in unsurveyed Township 38 North, Range 14 East, Gila and Salt River Meridian, Arizona.

The surveys were executed in accordance with the specifications set forth in the Manual of Surveying Instructions, 1947, and the special instructions dated October 14, 1968.

The directions of all lines were determined by solar observations and all lines refer to the true meridian. The adjusted horizontal distances, only, are entered in this field note record.

The geographic position of Corner No. 1 of Inscription House Ruin, Navajo National Monument derived from a tie to U. S. Coast and Geodetic Survey Triangulation Station "Coal Mine" is: Latitude: 36° 40.4' N., Longitude: 110° 49.2' W.

The magnetic declination as derived from the U. S. Coast and Geodetic Survey Isogonic Chart 1960 is 14½° E.

Memorandum

The positions of the Ruins as depicted on the plat and hereinafter described were calculated, and are in agreement with the record of the 1909 survey by William B. Douglass.

Dependent Resurvey of the Boundaries of the  
Inscription House Ruin, Navajo National Monument  
Township 38 North, Range 14 East  
Gila and Salt River Meridian, Arizona

Re-establishment of the Survey Executed by  
W. B. Douglass, in 1909

Beginning at the point for Corner No. 1, monumented with a sandstone, 30x17x8 ins., firmly set, mkd. COR NO. 1 on the N., NIR on the S., USNM on the W. faces, substantiated by an original bearing object:

A point on projecting sandstone spur, bears WEST, 6.48 chs. dist., mkd. B+O.

There is no evidence of the original bearing objects to the N. and SE.

At the corner point

Set an iron post, 30 ins. long, 2½ ins. in diam., 25 ins. in the ground, with brass cap mkd.

IHNM |  
COR 1 |  
NIR  
1968

bury the original stone alongside the iron post.

from which

Dependent Resurvey of the Boundaries of the  
Inscription House Ruin, Navajo National Monument  
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CHAINS										
	<p>An iron post, 30 ins. long, 2½ ins. in diam., set 25 ins. in the ground, for a reference monument, bears N. 45° E., 50 lks. dist., with brass cap mkd. COR 1 IHNM 33 FT RM 1968 and an arrow pointing to the true corner point.</p> <p>An iron post, 30 ins. long, 2½ ins. in diam., set 25 ins. in the ground, for a reference monument, bears N. 45° W., 50 lks. dist., with brass cap mkd. COR NO 1 IHNM 33 FT RM 1968 and an arrow pointing to the true corner point.</p> <p>From this corner point the U.S.C. &amp; G.S. Triangulation Station "Coal Mine", monumented with a regulation bronze tablet, set in a concrete monument, bears S. 64° 12' 30" E., 1,619.20 chs. dist.</p> <p>From this corner point Inscription House Ruins, bears N. 63° 27' W., 11.50 chs. dist.; Ruins "A" bears N. 34° 22' W., 12.88 chs. dist.; Ruins "B" bears N. 5° 00' W., 17.00 chs. dist.</p>									
<p>6.95</p> <p>19.87</p>	<p>N. 0° 01' E., along the E. boundary of Inscription House Ruin, Navajo National Monument.</p> <p>Over nearly level bottom land.</p> <p>Sandstone spur, 40 ft. high, projecting SE. from the main cliff. Ascend nearly vertical wall.</p> <p>The point for Corner No. 2, monumented with a cross (+) chiseled on a sandstone ledge rock, mkd. CORNER NO. 2 on the S., NIR on the E., USNM on the W., substantiated by the original bearing objects:</p> <p style="padding-left: 40px;">A point on the surface of sandstone, bears S. 54° 10' E., 12½ lks. dist., mkd. B+O.</p> <p style="padding-left: 40px;">A point on the surface of sandstone, bears N. 75° 36' W., 55 lks. dist., mkd. B+O.</p> <p style="padding-left: 40px;">A point on the surface of sandstone, bears N. 54° 24' W., 14 lks. dist., mkd. B+O.</p> <p>At the corner point</p> <p>Set a regulation brass tablet, 3½ ins. in diam., 3 in. stem, seated at the center of cross (+), with brass tablet mkd.</p> <div style="text-align: center; margin: 10px 0;"> <table border="0"> <tr> <td></td> <td style="border-right: 1px solid black; padding-right: 5px;">NIR</td> </tr> <tr> <td style="border-right: 1px solid black; padding-right: 5px;">COR 2</td> <td style="border-right: 1px solid black; padding-right: 5px;"> </td> </tr> <tr> <td style="border-right: 1px solid black; padding-right: 5px;">IHNM</td> <td style="border-right: 1px solid black; padding-right: 5px;"> </td> </tr> <tr> <td></td> <td style="padding: 0 5px;">1968</td> </tr> </table> </div> <p>rebuild the original mound of stone, 3 ft. base, 3 ft. high, 4 lks. E. of the corner. This mound of stone is visible from Corner No. 1.</p> <p>The corner point is located on edge of precipice bearing E. and W. and on the E. side of a deep wash cut in the solid sandstone ledge.</p>		NIR	COR 2		IHNM			1968	
	NIR									
COR 2										
IHNM										
	1968									
	<p>N. 89° 59' W., along the N. boundary of Inscription House Ruin, Navajo National Monument.</p> <p>Over rolling sandstone mesa.</p>									

Dependent Resurvey of the Boundaries of the  
Inscription House Ruin, Navajo National Monument  
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Gila and Salt River Meridian, Arizona

CHAINS				
20.07	<p>The point for Corner No. 3, monumented with a cross (+) chiseled on a sandstone surface, mkd. CORNER NO. 3 on the E., NIR on the N., USNM on the S., substantiated by original bearing trees, and object:</p> <p>A juniper, 14 ins. in diam., bears N. 78° 15' E., 115 lks. dist., mkd. COR NO. 3 NIR BT, (record 116 lks. dist.)</p> <p>Old stump, bears S. 77° 45' E., 120 lks. dist., no scribe marks visible, however stump is record bearing and distances.</p> <p>Old stump, bears N. 54° 40' W., 96 lks. dist., no scribe marks visible, however stump is record bearing and distance.</p> <p>A point on the surface of sandstone, bears S. 41° 55' W., 44 lks. dist., mkd. B+O.</p> <p>At the corner point</p> <p>Set a regulation brass tablet, 3½ ins. in diam., 3 in. stem, seated at the center of cross (+), with brass tablet mkd.</p> <div style="text-align: center;"> <table border="1" style="margin: auto;"> <tr> <td style="padding: 2px;">COR 3</td> </tr> <tr> <td style="padding: 2px;">NIR   IHNM</td> </tr> <tr> <td style="padding: 2px;">1968</td> </tr> </table> </div> <p>rebuild the original mound of stone, 3 ft. base, 3 ft. high, 3 lks. N. of the corner.</p> <p>from which</p> <p>A pinyon pine, 9 ins. in diam., bears N. 56½° W., 98 lks. dist., mkd. COR 3 NIR BT.</p> <p>The corner point is located about 2.20 chs. E. of precipice bearing SE. and NW. and 3.19 chs. N. of same precipice. This corner point is visible from the surrounding mesas and the valley floor.</p>	COR 3	NIR   IHNM	1968
COR 3				
NIR   IHNM				
1968				
	<p>S. 0° 06' E., along the W. boundary of Inscription House Ruin, Navajo National Monument.</p>			
3.19	<p>Rim, edge of precipice approximately 500 ft. above the valley floor, bears NW. and SE.</p>			
12.00	<p>Base of descent, bears NW. and SE., over nearly level land.</p>			
19.88	<p>The point for Corner No. 4, monumented with a sandstone, 18x14x5 ins., firmly set, 14 ins. in the ground, mkd. COR NO. 4 on the N. face, no other markings visible. This stone is somewhat smaller than size as per original field notes, substantiated by the original bearing objects:</p> <p>A point on sandstone spur projecting W., bears NORTH 8.19 chs. dist., mkd. NIR + USNM B+O.</p> <p>A point on sandstone ridge rock, bears S. 2° 25' E., 100 lks. dist., mkd. B+O.</p>			

Dependent Resurvey of the Boundaries of the  
 Inscription House Ruin, Navajo National Monument  
 Township 38 North, Range 14 East  
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CHAINS	<p>A point on sandstone ridge rock, bears S. 26° 10' W., 72½ lks. dist., mkd. B+O.</p> <p>No remaining evidence of bearing object to the EAST.</p> <p>At the corner point</p> <p>Set an iron post, 30 ins. long, 2½ ins. in diam., 24 ins. in the ground, with brass cap mkd.</p> <div style="text-align: center; margin: 10px 0;"> <table border="1" style="margin: auto;"> <tr> <td style="padding: 2px;">IHNM</td> </tr> <tr> <td style="padding: 2px;">COR 4</td> </tr> </table> <p>NIR 1968</p> </div>	IHNM	COR 4
IHNM			
COR 4			
10.50	<p>EAST, along the S. boundary of Inscription House Ruin, Navajo National Monument.</p> <p>Over nearly level land.</p> <p>W. face of spur, slopes S.</p>		
13.50	<p>Sandstone spur projects from the N. and approximately 2 chs. S.</p>		
20.03	<p>The point for Corner No. 1, and place of beginning.</p>		
<p>General Description</p> <p>Inscription house Ruin, Navajo National Monument is located in the unsurveyed Township 38 North, Range 14 East, Gila and Salt River Meridian, Arizona, within the Navajo Indian Reservation, it is located near the head of Navajo Creek, which has drainage to the northwest, to a junction with the Colorado River. The area is principally mesa, rims, to broken ledges; soil, sand to sandstone. Timber, juniper and pinyon pine; undergrowth oak brush, young trees, brush and grasses.</p>			



CERTIFICATE OF SURVEY

I, Leonard W. Murphy, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 14th day of October, 19 68 I have dependently resurveyed the boundaries of Inscription House Ruin, Navajo National Monument in unsurveyed Township 38 North, Range 14 East

of the Gila and Salt River Meridian, in the State of Arizona, which are represented in the foregoing field notes as having been executed by me and under my direction; and that said survey has been made in strict conformity with said special instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in specific manner described in the foregoing field notes.

December 10, 1968  
(Date)

*Leonard W. Murphy*  
(Cadastral Surveyor)  
Leonard W. Murphy

(Date)

(Cadastral Surveyor)

CERTIFICATE OF APPROVAL

SUBMITTED FOR APPROVAL  
Date JAN 20 1969

BUREAU OF LAND MANAGEMENT,  
Washington, D. C.

The foregoing field notes of the dependent resurvey of the boundaries of Inscription House Ruin, Navajo National Monument in unsurveyed Township 38 North, Range 14 East, Gila and Salt River Meridian, Arizona

executed by Leonard W. Murphy  
having been critically examined and found correct, are hereby approved.

JUL 22 1969  
(Date)

~~(Chief, Division of Engineering)~~  
Chief, Division of Cadastral Survey

CERTIFICATE OF TRANSCRIPT

~~I CERTIFY That the foregoing transcript of the field notes of the above-described surveys in  
is a true copy of the original field notes.~~

~~(Date)~~

~~(Chief, Division of Engineering)~~