UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

# FIELD NOTES

OF THE
DEPENDENT RESURVEY OF THE
BOUNDARIES OF THE KEET SEEL RUIN,
NAVAJO NATIONAL MONUMENT
IN UNSURVEYED
TOWNSHIP 39 NORTH, RANGE 17 EAST
Of theMeridian,
In the State ofARIZONA
EVECUTED BY
EXECUTED BY
LEONARD W. MURPHY CADASTRAL SURVEYOR
Under special instructions dated October 14 , 1968, which provided for the surveys
included under Group Number 504 , approved October 16, 1968 ,
and assignment instructions dated October 14 , 19 68 .
and assignment instructions dated
Survey commenced October 23 , 19 68
Survey completedOctober 29, 1968
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Unsurveyed Township 39 North, Range 17 East Keet Seel Ruin, Navajo National Monument

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### Township 39 North, Range 17 East Gila and Salt River Meridian, Arizona

CHAINS

Keet Seel Ruin, Navajo National Monument, was surveyed by W. B. Douglass, in November 1909.

The following field notes are those of a dependent resurvey of the boundaries of the Keet Seel Ruin, Navajo National Monument, located in the unsurveyed Township 39 North, Range 17 East, Gila and Salt River Meridian, Arizona.

The surveys were executed in accordance with the specifications set forth in the <u>Manual of Surveying Instructions</u>, 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 positions of Corner No. 1 of Keet Seel Ruin, Navajo National Monument derived from a tie to U. S. Geological Survey Triangulation Station "Parrish" is: Latitude: 36° 45.5' N., Longitude: 110° 29.5' W.

The magnetic declination as derived from the U. S. Coast and Geodetic Survey Isogonic Chart, 1960 is  $14\frac{1}{2}^{\circ}$  E.

### Memorandum

The numbering of the corners depicted upon the President' Proclamation, dated March 14, 1912, and the special instructions for the resurvey, dated October 14, 1968, is in error as evidences by the marking on the original corner monuments.

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

Dependent Resurvey of the Boundaries Keet Seel Ruin, Navajo National Monument Township 39 North, Range 17 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 cross (+) chiseled on a sandstone ledge, and mkd. CORNER NO. 1 on the N., USNM on the W., substantiated by the original bearing trees and objects:

A juniper, 18 ins. in diam., bears N. 41° 00' E., 132 lks. dist., mkd. COR NO. 1 PL BT.

A point on a sandstone ledge bears N. 45° 00' E.,  $33\frac{1}{2}$  lks. dist., mkd. B+O COR NO. 1.

A point on a sandstone ledge bears S. 24° 00' E.,  $11\frac{1}{2}$  lks. dist., mkd. B+O COR NO. 1.

A juniper, 16 ins. in diam., bears S. 2° 36' W., 119 lks. dist., mkd. COR NO. 1 PL BT.

Mound of stone, 5 lks. W. of the corner.

Dependent Resurvey of the Boundaries Keet Seel Ruin, Navajo National Monument Township 39 North, Range 17 East Gila and Salt River Meridian, Arizona

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CHAINS	At the corner point
	Set a regulation brass tablet, $3\frac{1}{2}$ ins. in diam., 3 in. stem, seated at the center of cross, with brass tablet mkd.
	KSNM COR 1 NIR
	1968
	rebuild the original mound of stone, 4 ft. base, 4 ft. high.
	This corner point is located near the east Keet Seel Canyon wall, a precipice approximately 500 ft. high.
	From this corner point Keet Seel Ruins, bears N. 43° 52' W., 25.44 chs. dist.
	N. 0° 02' W., along the E. boundary of the Keet Seel Ruin, Navajo National Monument.
37.10	Laguna Creek, from the N-NE., course S-SE., ascend over SE. slope.
39.98	The point for Corner No. 2, as determined from a bearing object and a bearing tree:
	A point at base of bluff, approximately 500 ft. high, bears S. 58° 06' E., 4.59 chs. dist., mkd. B+0.
	A boxelder, 14 ins. in diam., bears S. 27° 00' W., 2.58 chs. dist., mkd. COR NO. 2 USNM BT.
	There is no remaining evidence of original bearing trees to the NE. and NW.
	At the corner point
	Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. in diam., 25 ins. in the ground, with brass cap mkd.
	COR 2   NIR KSNM   1968
	from which
	A boxelder, ll ins. in diam., bears N. $61\frac{3}{4}$ ° W., 4.04 chs. dist., mkd. COR NO. 2 NIR BT.
	The corner point located on a bench W. of the Laguna Creek.
	N. 89° 53' W., along the N. boundary of the Keet Seel Ruin, Navajo National Monument.
5.00	Ascend 590 ft. over vertical cliffs.
19.62	Rim, at the center of the head of canyon, bears NE. and SE. Continue ascent over gently rolling E. slope, through timber.
39.86	The point for Corner No. 3, monumented with a sandstone, 20x13x6 ins., firmly set, mkd. COR NO. 3 on the E., NIR on the W., USNM on the S. faces, with a cross (+) mark on top, substantiated by the original bearing trees:

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Dependent Resurvey of the Boundaries Keet Seel Ruin, Navajo National Monument Township 39 North, Range 17 East Gila and Salt River Meridian, Arizona

CHAINS

A pinyon pine, 12 ins. in diam., bears N. 84° 00' E., 7 lks. dist., mkd. COR NO. 3 NIR BT.

A juniper, 12 ins. in diam., bears S.  $64^{\circ}$  30' E.,  $34\frac{1}{2}$  lks. dist., mkd. COR NO. 3 USNM BT.

A juniper, 14 ins. in diam., bears S. 63° 00' W., 15 lks. dist., mkd. COR NO. 3 NIR BT.

A pinyon pine, 12 ins. in diam., bears N. 26° 00' W., 49 lks. dist., mkd. COR NO. 3 NIR BT.

At the corner point

Set an iron post, 30 ins. long,  $2\frac{1}{2}$  ins. in diam., 15 ins. in the ground, to bedrock, over a cross (+), and in a mound of stone, 3 ft. base, to top, with brass cap mkd.

NIR COR 3 KSNM 1968

bury the original sandstone alongside the iron post and raise a mound of stone, 3 ft. base, 2 ft. high, S. of the corner.

SOUTH, along the W. boundary of the Keet Seel Ruin, Navajo National Monument.

Descend over rolling SE. slope, through juniper and pinyon pine timber.

39.97

The point for Corner No. 4, monumented with a wooden post, 3 ft. long, 4 ins. sq., firmly set, scribed COR 4 on the N., NIR on the S., and faint marks on the W. Record call was for a sandstone, 25x17x16 ins., however there are no stones available in the vicinity of this corner point, substantiated by the original bearing trees

A juniper, 26 ins. in diam., bears N. 43° 10' E.,  $59\frac{1}{2}$  lks. dist., mkd. COR NO. 4 USNM BT.

A pinyon pine, 12 ins. in diam., bears S. 75° E., 14 lks. dist., mkd. COR NO. 4 NIR BT.

A juniper, 30 ins. in diam., bears S.  $42^{\circ}$  00' W., 69 lks. dist., mkd. COR NO. 4 NIR BT.

A pinyon pine, 14 ins. in diam., bears N.  $25\frac{1}{2}^{\circ}$  W., 50 lks. dist., mkd. COR NO. 4 NIR BT.

At the corner point

Set an iron post, 30 ins. long,  $2\frac{1}{2}$  ins. in diam., 24 ins. in the ground, with brass cap mkd.

NIR COR 4

bury the wooden post alongside the iron post and raise a mound of earth E. of the corner.

Dependent Resurvey of the Boundaries Keet Seel Ruin, Navajo National Monument Township 39 North, Range 17 East Gila and Salt River Meridian, Arizona

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CHAINS	S. 89° 52' E., along the S. boundary of the Keet Seel Ruin, Navajo National Monument.
	Descend 240 ft. over SE. slope, through timber.
20.93	W. rim of Keet Seel Canyon, bears N. and S-SW., descend 520 ft. over rim and broken E. slope.
29.00	Laguna Creek, course S., ascend 440 ft. over rim and broken W. slope.
39.88	The point for Corner No. 1, and place of beginning.
	General Description
	Keet Seel Ruin, Navajo National Monument is located in the unsurveyed Township 39 North, Range 17 East, Gila and Salt River Meridian, Arizona, within the Navajo Indian Reservation. It is located on one of the southern reaches of Skeleton Mesa. Laguna Creek in Keet Seel Canyon traverses through the National Monument from a point near Corner No. 2 (the NE. cor.) and leaving on the south boundary. The area is principally mesa, rims to broken ledges, with an elevation of 6,680 ft. in Laguna Creek, on the south boundary to 7,600 ft. above sea level near Corner No. 3 (the NW. cor.). Timber, on the mesa top, consist of juniper and pinyon pine, the bottom and side hills are covered with boxelder, and oak brush; undergrowth, brush, vines, and grasses.  The Keet Seel Ruins are located near the center of the area of this monument along the western rim of the
	area of this monument along the western rim of the canyon, with a lesser in size ruins located some 15 chains distance, to the northeast. There are numerous ruins located along the rims of the canyons outside of this monument area.

Form 4-680 (June 1963)

# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

## FIELD ASSISTANTS

CAPACITY
Surveying Aid
Surveying Aid
Surveying Aid
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#### CERTIFICATE OF SURVEY

I, Leonard W. Murphy , HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the L4th day of October , 19 68,

I have dependently resurveyed the boundaries of the Keet Seel Ruin, Navajo

National Monument in unsurveyed Township 39 North, Range 17 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)

Sloward W. Murphy

(Cadastral Surveyor)

Leonard W. Murphy

(Cadastral Surveyor)

### CERTIFICATE OF APPROVAL

SUBMITTED FOR APPROVAL Date \_\_\_\_\_ JAN 2 0 1969

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BUREAU OF LAND MANAGEMENT, Washington, D. C.

The foregoing field notes of the dependent resurvey of the boundaries of the Keet Seel Ruin, Navajo National Monument in unsurveyed Township 39 North, Range 17 East, Gila and Salt River Meridian, Arizona

executed by Leonard W. Murphy

having been critically examined and found correct, are hereby approved.

JUL 2 2 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)