

INDEX DIAGRAM

TOWNSHIP 31 NORTH, RANGE 10 EAST,

6	5	4	7 3	6 2	5 1 4
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

BOOK 5309

T. 31 N., R. 10 E., Gila and Salt River Meridian, Arizona

CHAINS

Following are the notes of the dependent resurvey of portions of the east and north boundaries of Township 31 North, Range 10 East, of the Gila and Salt River Meridian, Arizona.

The east and north boundaries were originally surveyed by Philip Contzen, in 1905

The survey was executed in accordance with the specifications as set forth in the Manual of Surveying Instructions, 1973, and the Special Instructions dated March 16, 1988, for Group No. 700, Arizona.

Preliminary to the resurvey, the lines of the original survey and resurveys were retraced and search was made for all corners and other calls of the record. Identified corners were remonumented in their original positions; lost corners were restored and monumented at proportionate positions based on the official record. The retracement data were thoroughly verified and only the true line field notes are given herein.

The directions of lines were determined by direct solar observations and refer to the true meridian. Distances and angles were measured using a Nikon NTD-4 electronic instrument.

The geographic positions of the northeast cor. of the Tp. and the 1/4 sec. cor. of secs. 3 and 34, on the N. bdy. of the Tp., as determined from ties made to U.S. Coast and Geodetic Survey triangulation station "Tuba City" and U.S. Geological Survey triangulation station "Moencopi", are respectively as follows:

NAD 27: Latitude: 36°06'14.88" N. Longitude: 111°15'53.13" W.

NAD 27: Latitude: 36°06'14.95" N. Longitude: 111°18'33.84" W.

The mean magnetic declination is 13 1/2° E.

BOOK 5309

Dependent Resurvey of a Portion of the E. Bdy.,
T. 31 N., R. 10 E., Gila and Salt River Meridian, Arizona

CHAINS	<p style="text-align: center;">Restoring of the survey executed by Philip Contzen, in 1905</p> <hr style="width: 20%; margin: auto;"/> <p>Beginning at the cor. of secs. 1, 6, 7 and 12, Tp. 31 N., Rs. 10 and 11 E., monumented with a sandstone, 18 x 6 x 5 ins., firmly set, projecting 6 ins. above the ground, clearly mkd. 10E 1/4 on N. face, 31N S7 on E. face, R11E on S. face, S8 on W. face, and X on top, with 1 notch on NE edge and 5 notches on SW edge. (Record: Limestone, 18 x 6 1/2 x 5 ins.)</p> <p>At the cor. point</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., encircled with a collar of stone, 24 ins. in the ground, with brass cap mkd.</p> <table style="margin: 10px auto; border-collapse: collapse;"> <tr><td colspan="2" style="text-align: center;">T31N</td></tr> <tr><td style="text-align: center;">R10E</td><td style="text-align: center;">R11E</td></tr> <tr><td style="text-align: center;">S 1</td><td style="text-align: center;">S 6</td></tr> <tr><td colspan="2" style="text-align: center;">-----</td></tr> <tr><td style="text-align: center;">S12</td><td style="text-align: center;">S 7</td></tr> <tr><td colspan="2" style="text-align: center;">1988</td></tr> </table> <p>Bury the original stone alongside the cor.</p> <p>Deposit a magnet enclosed in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post.</p> <p>N. 0°24' E., bet. secs. 1 and 6.</p> <p>Over rolling and broken land.</p> <p>39.97 Point for the 1/4 sec. cor. of secs. 1 and 6, at proportionate dist.; there is no remaining evidence of the original cor.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 25 ins. in the ground, with brass cap mkd.</p> <table style="margin: 10px auto; border-collapse: collapse;"> <tr><td colspan="2" style="text-align: center;">T31N</td></tr> <tr><td colspan="2" style="text-align: center;">1/4</td></tr> <tr><td style="text-align: center;">R10E</td><td style="text-align: center;">R11E</td></tr> <tr><td style="text-align: center;">S 1</td><td style="text-align: center;">S 6</td></tr> <tr><td colspan="2" style="text-align: center;">1988</td></tr> </table> <p>Deposit a magnet enclosed in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post.</p>	T31N		R10E	R11E	S 1	S 6	-----		S12	S 7	1988		T31N		1/4		R10E	R11E	S 1	S 6	1988	
T31N																							
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1988																							

5
BOOK 5309

Dependent Resurvey of a Portion of the E. Bdy.,
T. 31 N., R. 10 E., Gila and Salt River Meridian, Arizona

CHAINS	
	Set a steel fence post W. of the cor.
79.94	The cor. of Tps. 31 and 32 N., Rs. 10 and 11 E., described in the field note record of the dependent resurvey of a portion of the S. bdy. of T. 32 N., R. 11 E., executed concurrently under this same group.
	<hr/> <p style="text-align: center;">Dependent Resurvey of a Portion of the N. Bdy., T. 31 N., R. 10 E., Gila and Salt River Meridian, Arizona</p> <hr/>
	<p style="text-align: center;">Restoring the survey executed by Philip Contzen, in 1905</p> <hr/>
	From the cor. of Tps. 31 and 32 N., Rs. 10 and 11 E., hereinbefore described.
	N. 89°58' W., bet. secs. 1 and 36.
	Over nearly level land.
39.98	Point for the 1/4 sec. cor. of secs. 1 and 36, at proportionate dist.; there is no remaining evidence of the original cor. Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 25 ins. in the ground, with brass cap mkd.
	<p style="text-align: center;">T32N R10E S36 1/4 — S 1 T31N 1988</p>
	Deposit a magnet enclosed in a 1 x 1 x 2 5/8 in. white plastic case beneath the stainless steel post.
47.05	S. right-of-way fence, barbed wire, 5 strand, and a power line, parallel highway.
51.45	U.S. Highway 160, asphalt surfaced, 55 lks. wide, bears ENE and WSW.
57.37	N. right-of-way fence, barbed wire, 5 strand, parallels highway.
79.96	Point for the cor. of secs. 1, 2, 35 and 36, at proportionate dist.; there is no remaining evidence of the original cor.

BOOK 5309

Dependent Resurvey of a Portion of the N. Bdy.,
T. 31 N., R. 10 E., Gila and Salt River Meridian, Arizona

CHAINS																			
	<p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 12 ins. in the ground, to bedrock, in a supporting mound of stone, 4 ft. base, to top, with brass cap mkd.</p>																		
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	<p>N. 89°58' W., bet. secs. 2 and 35.</p>																		
	<p>Over gently rolling land.</p>																		
39.98	<p>Point for the 1/4 sec. cor. of secs. 2 and 35, at proportionate dist.; there is no remaining evidence of the original cor.</p>																		
	<p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.</p>																		
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79.96	<p>Point for the cor. of secs. 2, 3, 34 and 35, at proportionate dist.; there is no remaining evidence of the original cor.</p>																		
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S34	S35	S35																	
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	1988																		

BOOK 5309

Dependent Resurvey of a Portion of the N. Bdy.,
T. 31 N., R. 10 E., Gila and Salt River Meridian, Arizona

CHAINS	<p>Deposit a magnet enclosed in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post.</p> <hr/> <p>N. 89°58' W., bet. secs. 3 and 34.</p> <p>Over gently rolling land.</p> <p>39.98 The 1/4 sec. cor. of secs 3 and 34, monumented with a blue limestone, 18 x 8 x 5 ins., lying loose on a sandstone shelf, clearly mkd. 1/4 34 on one face, 3 on opposite face, and X on top. (Record: Limestone, 18 x 6 x 5 ins.)</p> <p>At the cor. point</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">T32N R10E S34 1/4 — S 3 T31N 1988</p> <p>Bury the original stone alongside the cor.</p> <p>Deposit a magnet enclosed in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post.</p> <p>Raise a mound of stone, 3 ft. base, 2 ft. high, to the N.</p> <p>From this cor., U.S.C.G.S. second order triangulation station "Tuba City", bears N. 67°23' E., 418.67 chs. dist., monumented with a standard brass tablet, 3 ins. diam., firmly set in concrete, flush with surface of bedrock, with brass tablet mkd. TUBA CITY 1951 and a triangle.</p> <p>From this same cor., U.S.G.S. third order triangulation station "Moencopi", bears S. 13°26' E., 291.47 chs. dist., monumented with a standard brass tablet, 3 ins. diam., firmly set in concrete, flush with surface of bedrock, with brass tablet mkd. MOENCOPI and a triangle.</p> <hr/>
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BOOK 5309

T. 31 N., R. 10 E., Gila and Salt River Meridian, Arizona

CHAINS	GENERAL DESCRIPTION
	<p>The area surveyed is 3 miles SW of the town of Tuba City, Arizona, within the Navajo Indian Reservation. The terrain is generally gently rolling land.</p> <p>Elevation varies from 4,500 ft. to 5,000 ft. above sea level. The soil is generally sandy and clay loam, with scattered sandstone surface rock, and exposed bedrock. The vegetation consists of native grasses, greasewood, rabbit brush, mormon tea, sage brush, and yucca cactus. Drainage is generally westerly.</p> <p>Access to the area is provided by U.S. Highway 160 on the north, with various trail roads and graded roads originating from the highway.</p> <p>Permanent residents are located throughout the area of this survey.</p>

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS-NAVAJO TRIBAL EMPLOYEES

NAMES	CAPACITY
Daniel Bryan	Engineering Technician
Alden Francisco	Engineering Technician

CERTIFICATE OF SURVEY

I, Daniel N. Patterson , Cadastral Surveyor, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 16th day of March, 1988, I have dependently resurveyed portions of the east and north boundaries of Township 31 North, Range 10 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.

Daniel N. Patterson is no longer assigned to this office and is not available for signature.

JAN 22 1991

(Date)

William F. Olver

(Project Manager)

CERTIFICATE OF APPROVAL

BUREAU OF LAND
MANAGEMENT
Arizona State Office
Phoenix, Arizona

The foregoing field notes of the dependent resurvey of a portion of the east and north boundaries of Township 31 North, Range 10 East, Gila and Salt River Meridian, Arizona, executed by Daniel N. Patterson , Cadastral Surveyor, having been critically examined and found correct, are hereby approved.

MAR 6 1991

(Date)

James P. Kelly

(Chief Cadastral Surveyor of Arizona)

~~CERTIFICATE OF TRANSCRIPT~~

~~I Certify that the foregoing transcript of the field notes of the above-described surveys in T. 31 N., R. 10 E., Gila and Salt River Meridian, Arizona is a true copy of the original field notes.~~

~~(Date)~~

~~(Chief Cadastral Surveyor of Arizona)~~