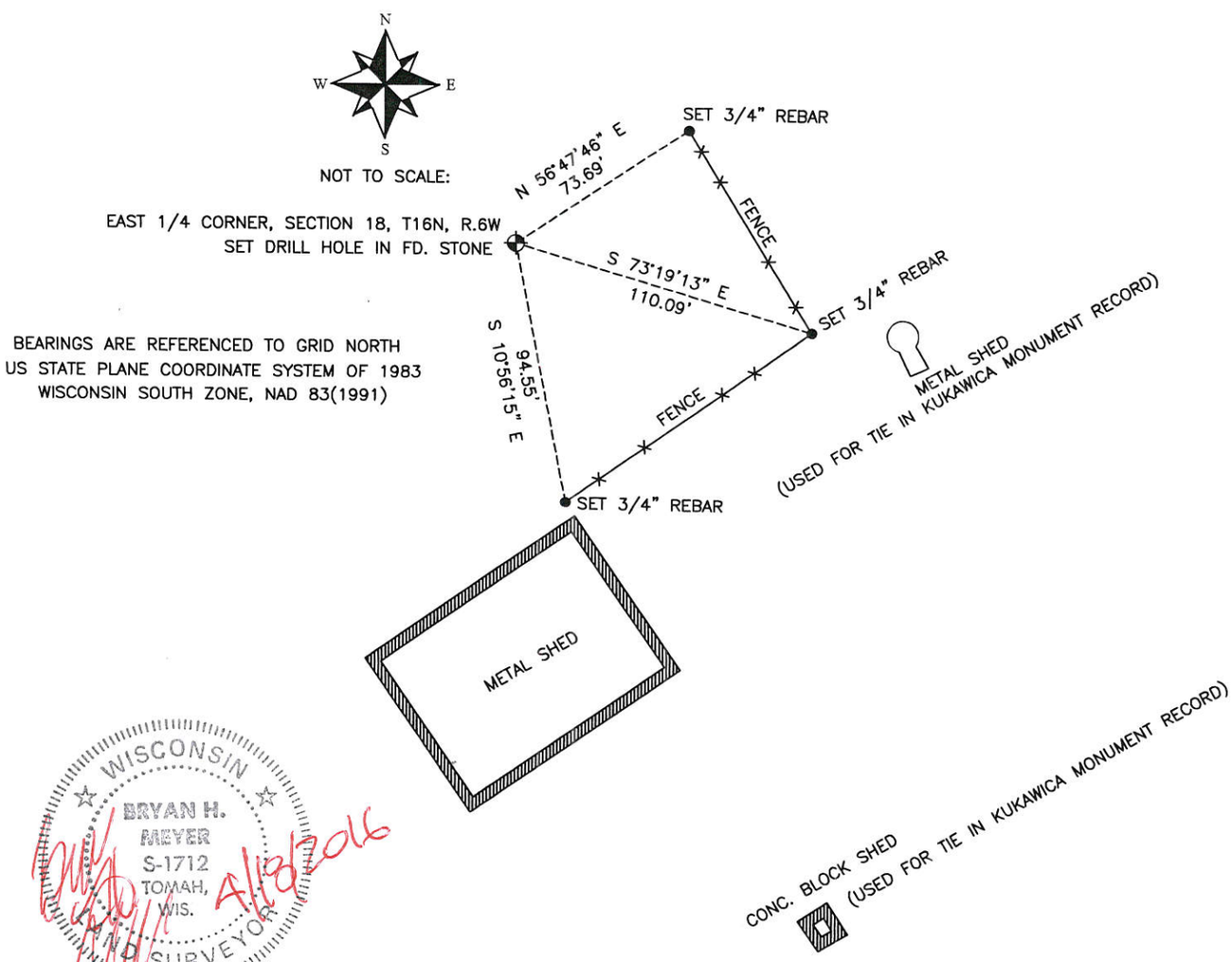
Tie sheet Update – 21606182000 (La Crosse County Index 68E)

In March of 2016, the County Surveyor's Office received a call from Norm Hurlburt, a Professional Land Surveyor from Black River Falls. Norm had found the stone at this corner but indicated that there were ties missing. John Krage and I performed maintenance work for this corner on March 9, 2016. We found the stone of record down 1.8 feet in a corn field. We set a ¼" drill hole at the center of the stone. We searched for the ties shown on the tie sheet submitted by Michael Kukawica and dated 10/12/2000. We found the "Metal shed" to the Southeast and the concrete block shed to the Southeast. The other two ties appeared to be gone. John and I set three new ties as follows (based on grid North):

N56°47'46"E, 73.69 feet to a ¾" x 24" rebar 1'± Easterly of fence corner
S73°19'13"E, 110.09 feet to a ¾" x 24" rebar 1.4'± Easterly of fence corner
S10°56'15"E, 94.55 feet to a ¾" x 24" rebar in East-West fence on line with the Northeasterly edge of a newer shed projected Northwesterly.

We acquired GPS State Plane coordinate values on the corner.



WISCONSIN
BRYAN H. MEYER
S-1712
TOMAH, WIS.
LAND SURVEYOR

4/18/2016

Bryan H. Meyer – La Crosse County Surveyor
April 18, 2016

068E

21606182000

U.S. PUBLIC LAND SURVEY MONUMENT RECORD

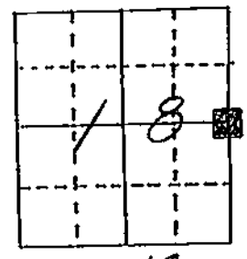
Note: This form is intended and designed to fulfill all requirements of Wisconsin Administrative Code, Chapter A-E 5.02, U.S. Public Land Survey Monument Record (3) (a) (b) (c) (d) (e) (f) (g) (h) (i). An additional sheet may be added if necessary to conform with said requirements.

(a) Corner location: Township 16 North

Range 6 W

Town/City/Village BARRE

County LA CROSSE

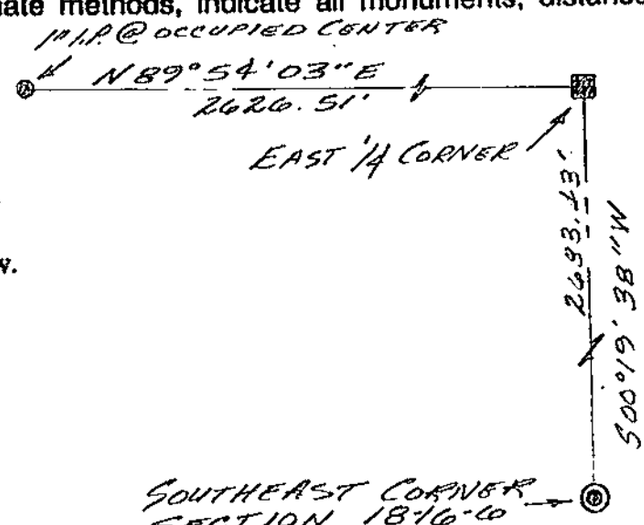


Section 18

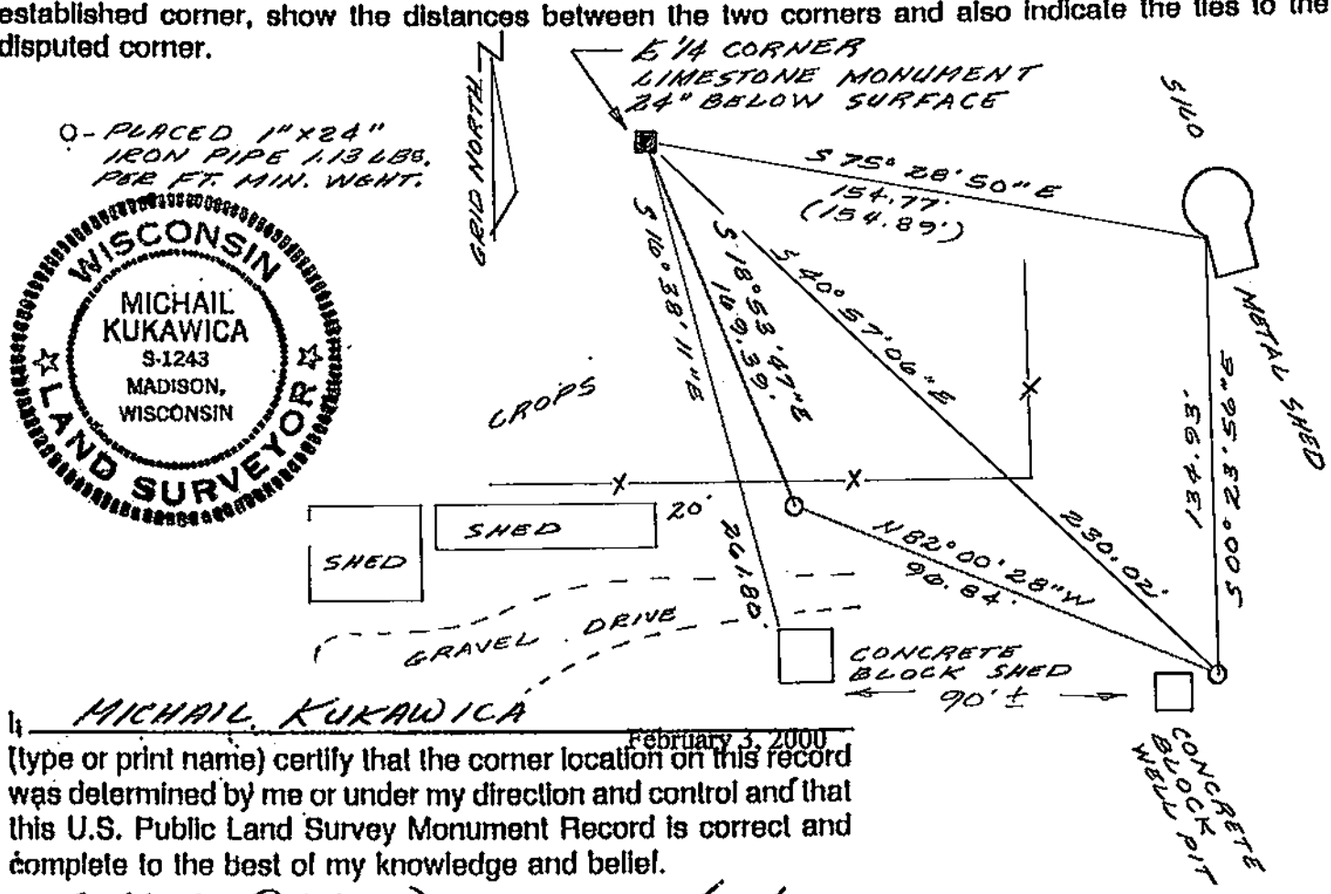
(b) (f) (g) (h) Description of monument found at this corner and if it was accepted, state all evidence (material, testimonial, occupational, plats, records, other monuments) used as a basis for accepting. If not accepted or if nothing was found, state evidence used as basis for establishing location. If reestablished through lost corner proportionate methods, indicate all monuments, distances and directions used to establish.

I found the Stone of Record as shown on previous Tie Sheet dated July 22, 1980, by Ray P. Pelishek.

I placed new Reference Monuments as show below.



(c) (d) (e) Plan view of corner with ties to at least 4 witness monuments. If in disagreement with previously established corner, show the distances between the two corners and also indicate the ties to the disputed corner.



(i) I, MICHAIL KUKAWICA (type or print name) certify that the corner location on this record was determined by me or under my direction and control and that this U.S. Public Land Survey Monument Record is correct and complete to the best of my knowledge and belief.

February 3, 2000

Michail Kukawica 10/12/00

Signature Date

RECORD OF LAND CORNER PERPETUATION

No. _____

STATE OF WISCONSIN
County of La Crosse } ss.

I, Ray P. Pelishek, hereby certify that the information shown hereon correctly describes the original corner, resurvey information, evidence found, type of monument found or placed, and witness monuments and accessories used to perpetuate the location of the original or established corner.

Dated this 22nd day of July, 1980

at La Crosse, Wisconsin.

Ray P. Pelishek

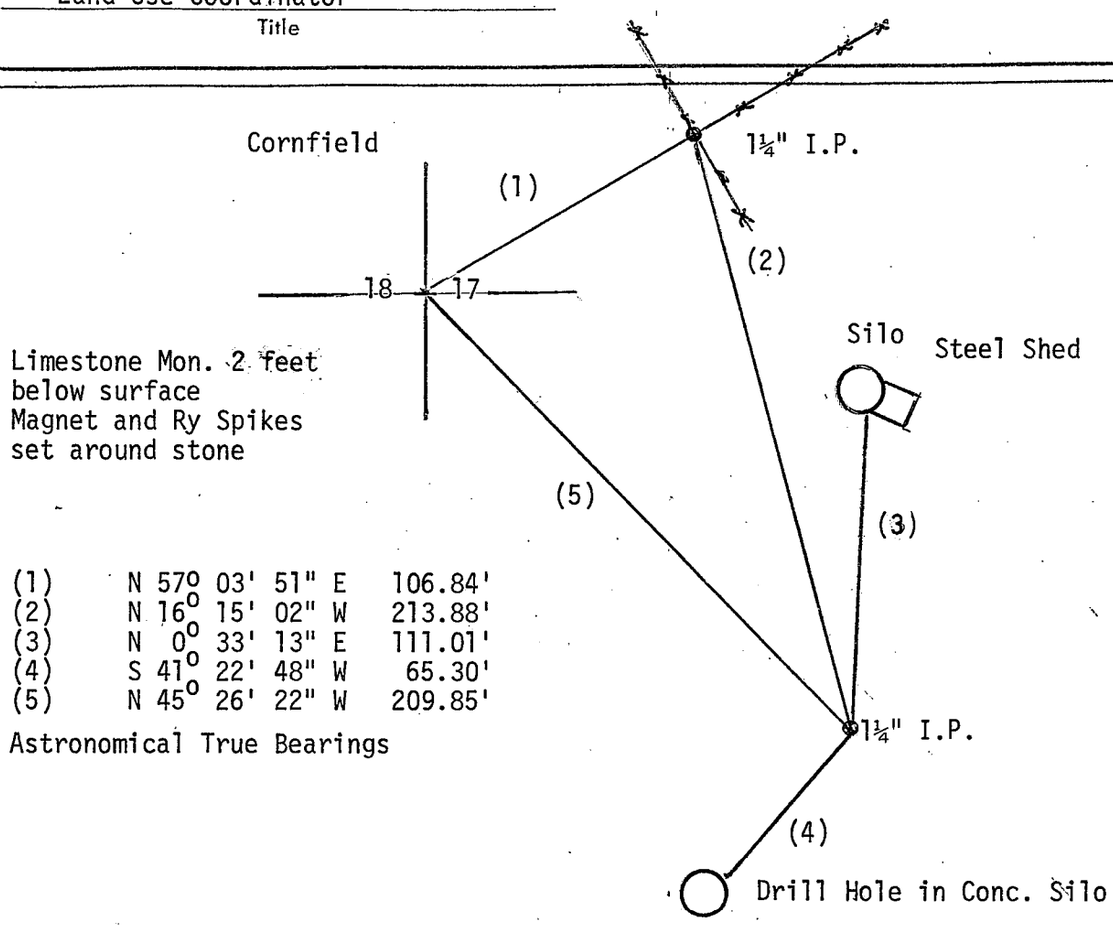
Land Use Coordinator
Title

COUNTY: LA CROSSE		
TOWN: HAMILTON - BARRE		
HIGHWAY: CTH "B"		
SECTION: 17 - 18	TOWNSHIP: 16 N	RANGE: 6 W
TYPE OF LANDMARK: 7 x 7 x 36 Limestone		

Date of Survey July 18, 1980

Drafted by RPP

Date July 22, 1980



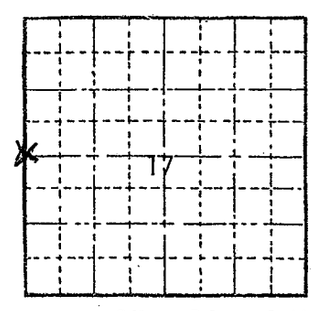
(1)	N 57° 03' 51" E	106.84'
(2)	N 16° 15' 02" W	213.88'
(3)	N 0° 33' 13" E	111.01'
(4)	S 41° 22' 48" W	65.30'
(5)	N 45° 26' 22" W	209.85'

Astronomical True Bearings

WISCONSIN COORDINATE SYSTEM	
North	Zone
East	
Elevation	Theta Angle
Vertical control order	
Horizontal control order	

REMARKS:

WISCONSIN
RAY P. PELISHEK
S-188
ONALASKA, WIS.
LAND SURVEYOR



Sec. 17 - 16 - 6 W

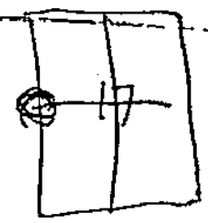
LOCATION SKETCH
(Location of landmark indicated by "x")

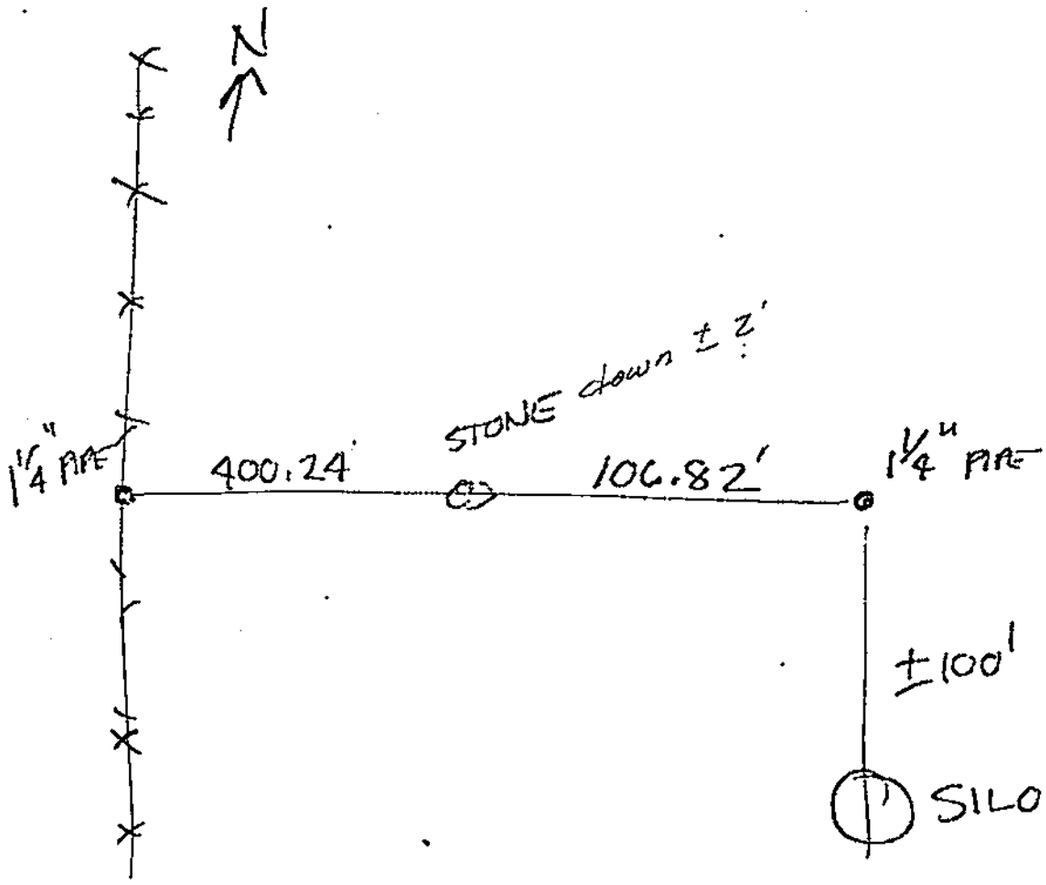
HA-20

West 1/4 corner Section 17
T16N R6W

SILO

Fence line to west
106.82
400.24





PADMASTER® / Made in U.S.A.

Set # 2

AZIMUTH BY SUN OR A STAR, ALTITUDE METHOD

	TEL.	OBJECT		TIME HR.	TIME MIN.	TIME SEC.	HORIZONTAL ANGLE °	HORIZONTAL ANGLE '	HORIZONTAL ANGLE "	VERTICAL ANGLE °	VERTICAL ANGLE '	VERTICAL ANGLE "
SET UP AT												
CELESTIAL BODY S												
MARK	D	MARK		—	—	—	0	00	00	—	—	—
DATE	D	+	APPARENT SUN POSITION									—
LATITUDE (Lat)	D	+										—
LONGITUDE	D	+										—
TIME ZONE	R	+										—
WATCH F(−) OR S(+) SECONDS	R	+										—
WATCH CHECKED AGAINST	R	+										—
LOCALITY	R	MARK		—	—	—				—	—	—
WEATHER	MEAN			14	38	06	173	34	38	52	17	38
TEMPERATURE	WATCH CORR.				1	18	PARALLAX + (sun only)					6
INSTRUMENT NUMBER	TIME ZONE CORR.			6			REFRACTION −					39
GREENWICH DATE	GCT			20	36	48	ALTITUDE h			52	17	05

DECLINATION d AT 0h GCT ±			GCT × d VARIATION PER HOUR ±			CORRECTED DECLINATION d ±		
21°	22.6'	"	°	0.42'	"	21°	13'	57"

OBSERVER

RECORDER

p	68°	46'	03"
Lat	43	51	47
h	52	17	05
SUM 2)			

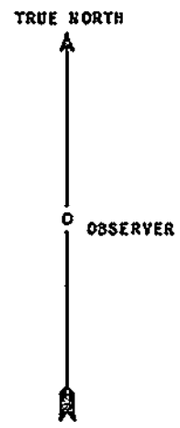
$P = 90° - d$ $\quad s = \frac{1}{2}(p + Lat + h)$

A = Azimuth of S East or West of True North

$$\tan \tfrac{1}{2}A = \sqrt{\frac{\sin(s - Lat)\,\sin(s - h)}{\cos s\,\cos(s - p)}}$$

s	82	27	28	COLOG COS	0.8818783
s − p	13	41	25	COLOG COS	0.0125173
s − Lat	38	35	41	LOG SIN	9.7950507
s − h	30	10	23	LOG SIN	9.7012341
SUM 2)					
LOG TAN ½A					0.1953402
½A					57° 28' 18"
A (E or W of North)					114 56 36
AZIMUTH TO S					245 03 24
MINUS ANGLE, MARK TO S					173 34 38
TRUE AZIMUTH TO MARK					71 28 46
GRID CORRECTION					
GRID AZIMUTH TO MARK					

SKETCH



DATE OF COMPUTATION

COMPUTED BY

DA AGO FORM 1 JAN 48 6-11 REPLACES FAS FORM 11, 16 JUNE 1944, WHICH IS OBSOLETE.

AZIMUTH BY SUN OR A STAR, ALTITUDE METHOD

SET UP AT TAUSCHER FARM	TEL.	OBJECT		TIME			HORIZONTAL ANGLE			VERTICAL ANGLE		
CELESTIAL BODY S SUN				HR.	MIN.	SEC.	°	'	"	°	'	"
MARK PK - Hwy B	D	MARK		—	—	—	0	00	00	—	—	—
DATE July 16, 1980	D	+	APPARENT SUN POSITION									—
LATITUDE (Lat) 43-51-47	D	+										—
LONGITUDE	D	+										—
TIME ZONE	R	+										—
WATCH (F(-)) OR S(+) 1' 18." SECONDS	R	+										—
WATCH CHECKED AGAINST RADIO.	R	+										—
LOCALITY BARRE - HAMILTON	R	MARK		—	—	—				—	—	—
WEATHER	MEAN			14	29	56	171	38	10	53	26	30
TEMPERATURE	WATCH CORR.				1	18	PARALLAX + (sun only)					6
INSTRUMENT NUMBER D. White	TIME ZONE CORR.			6			REFRACTION −					39
GREENWICH DATE	GCT			20	28	38	ALTITUDE h			53	25	57

DECLINATION d AT 0h GCT ±			GCT × d VARIATION PER HOUR ±			CORRECTED DECLINATION d ±		
N 21°	22.6'	"	°	0.42'	"	21°	14'	00"

OBSERVER

RECORDER

P	68°	46'	00"
Lat	43	51	47
h	53	25	57
SUM 2)			

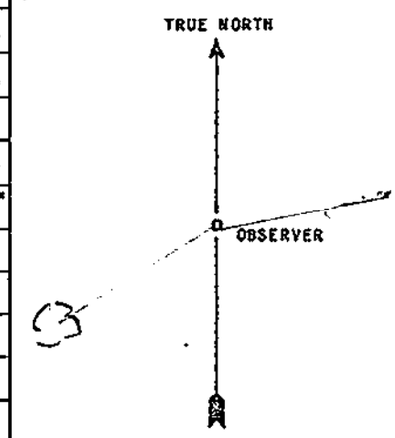
$P = 90° - d$ $\quad s = \frac{1}{2}(p + Lat + h)$

A = Azimuth of S East or West of True North

$$\tan \tfrac{1}{2}A = \sqrt{\frac{\sin(s - Lat)\,\sin(s - h)}{\cos s\,\cos(s - p)}}$$

s	83	01	52	COLOG COS	0.9160304
s − p	14	15	52	COLOG COS	0.0136006
s − Lat	39	10	05	LOG SIN	9.8004402
s − h	29	35	55	LOG SIN	9.6936573
SUM 2)					
LOG TAN ½A					0.2118642
½A					58° 27' 07"
A (E or W of North)					116 54 14
AZIMUTH TO S					243 05 46
MINUS ANGLE, MARK TO S					171 38 10
TRUE AZIMUTH TO MARK					71 27 36
GRID CORRECTION					
GRID AZIMUTH TO MARK					

SKETCH



DATE OF COMPUTATION July 17, 1980

COMPUTED BY RP

DA AGO FORM 1 JAN 48 6-11 REPLACES FAS FORM 11, 16 JUNE 1944, WHICH IS OBSOLETE.