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Vertical Control Processing "Blue Book"

WinDesc

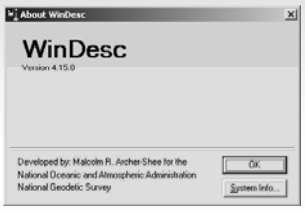


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Data Processing Steps

Two different steps:

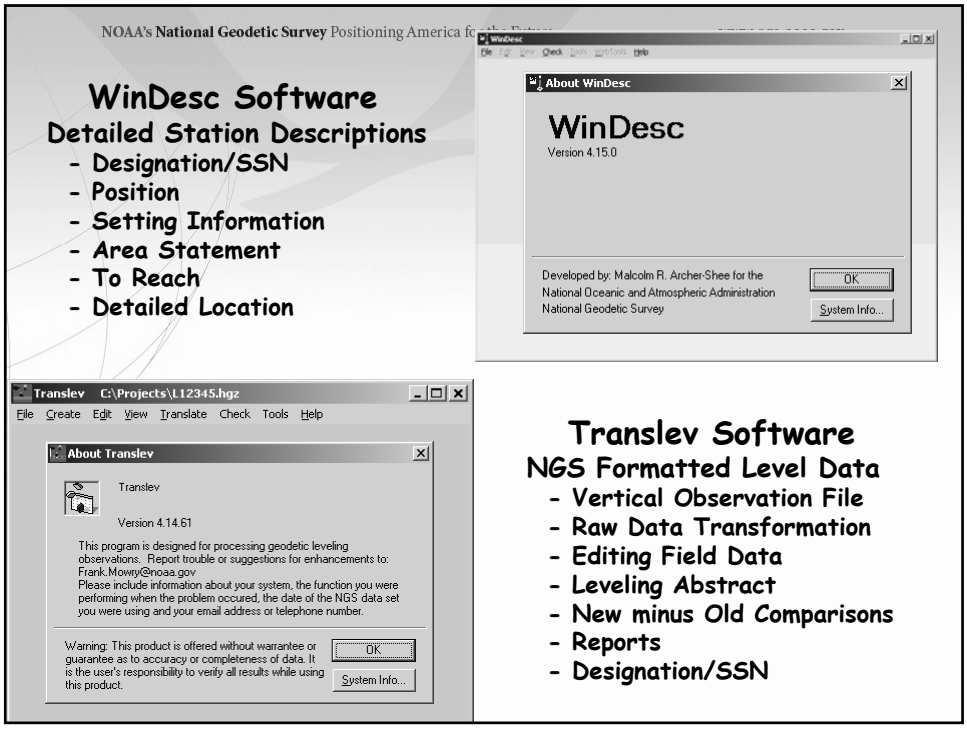
1. Descriptions ⇨

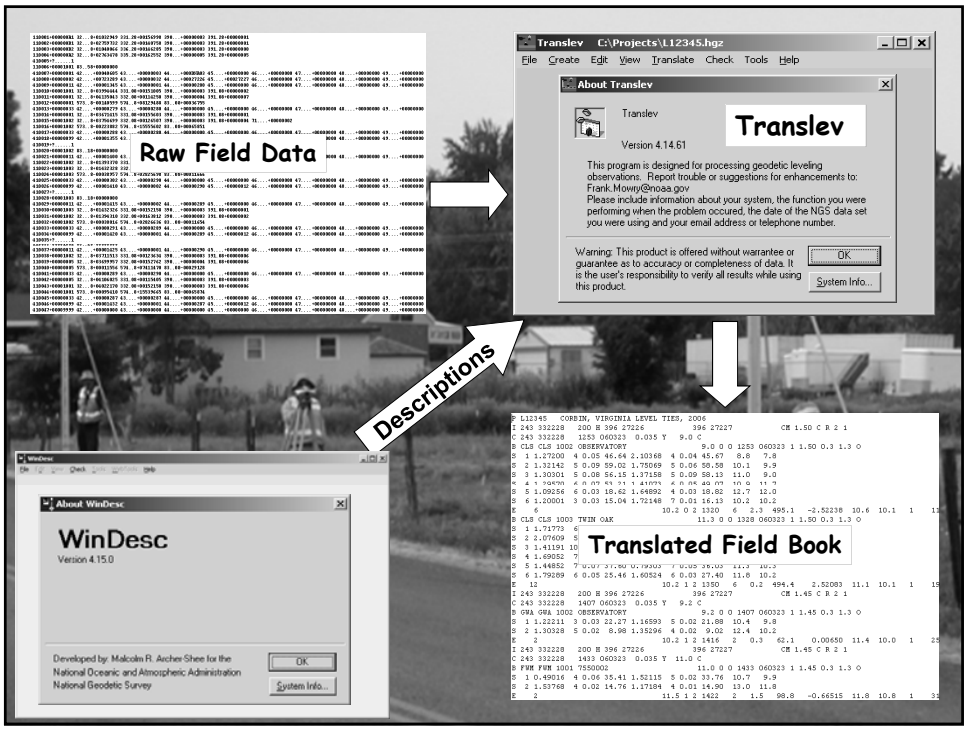


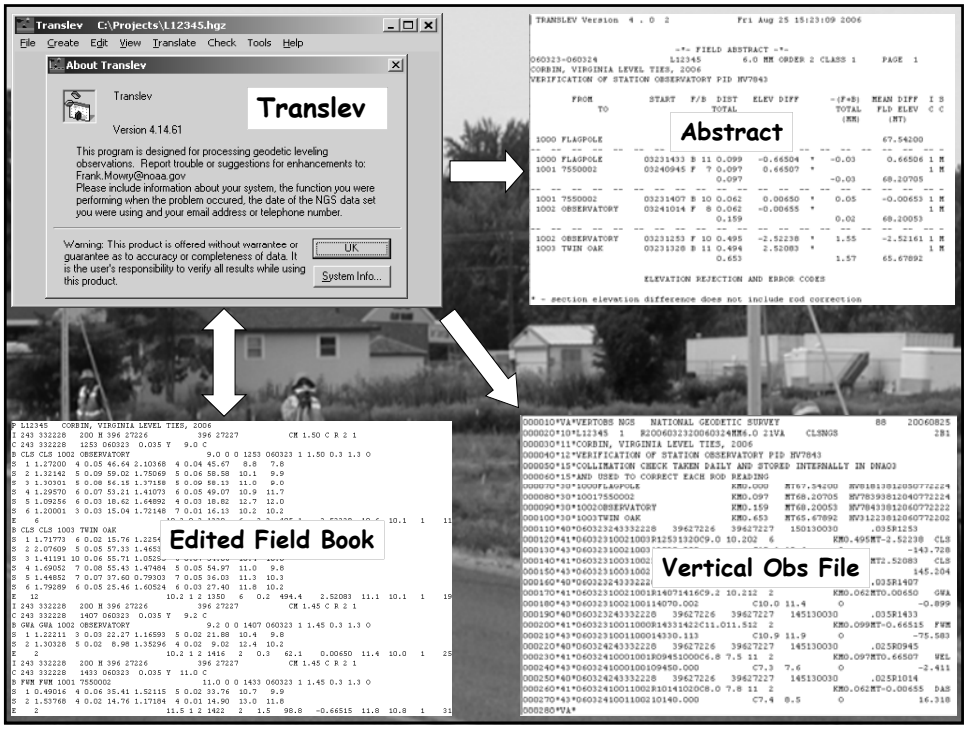
2. Field Data ⇨

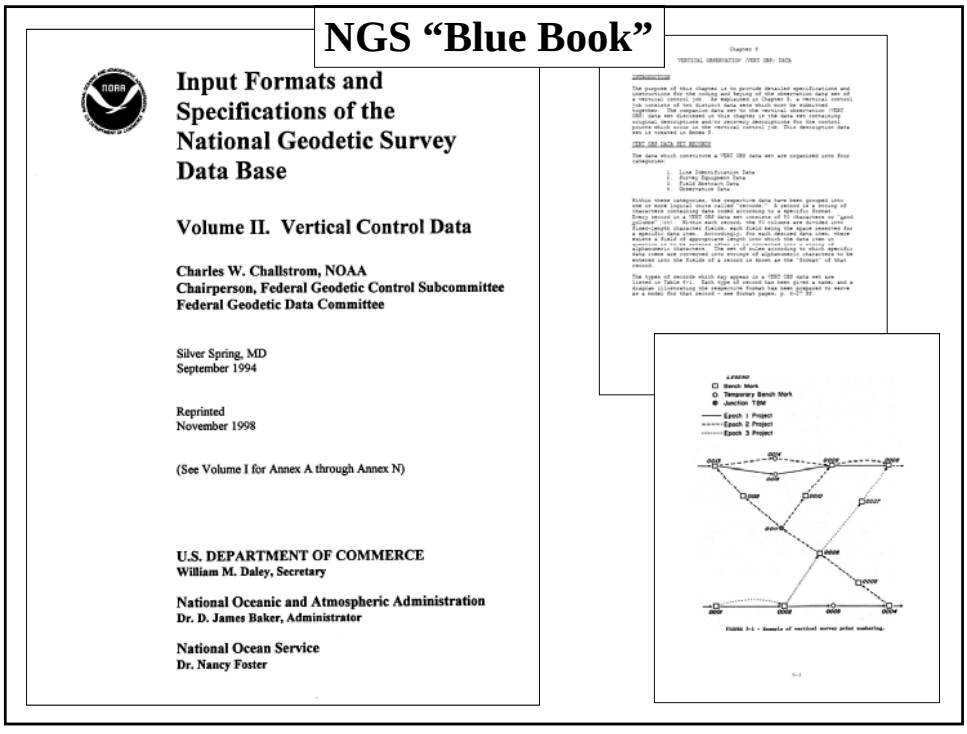


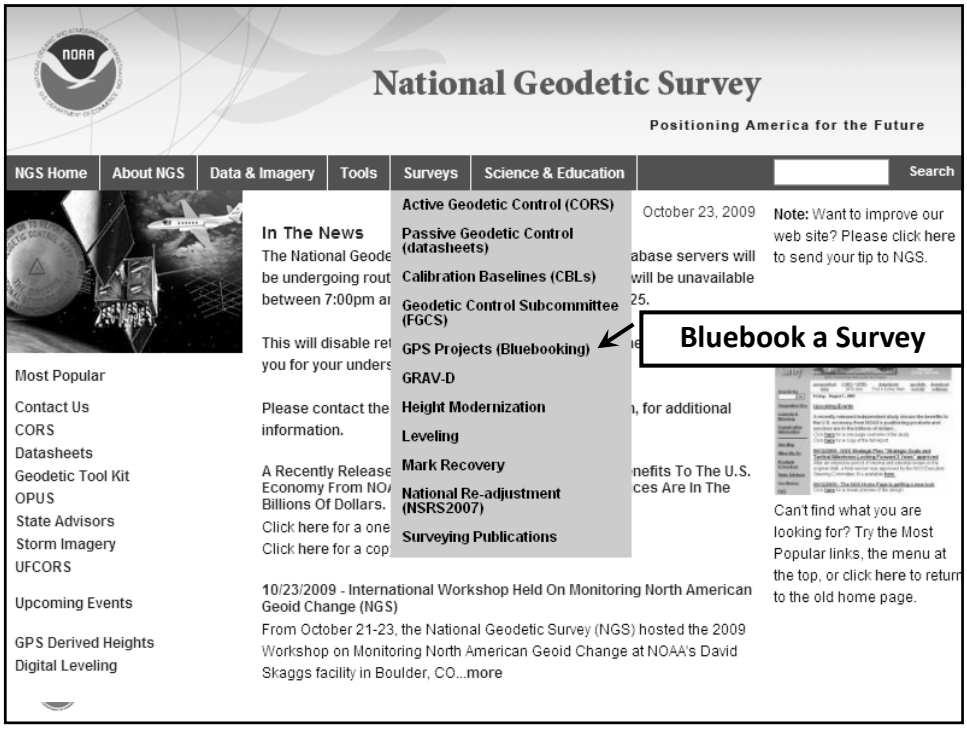
Note: Translev uses the output from WinDesc

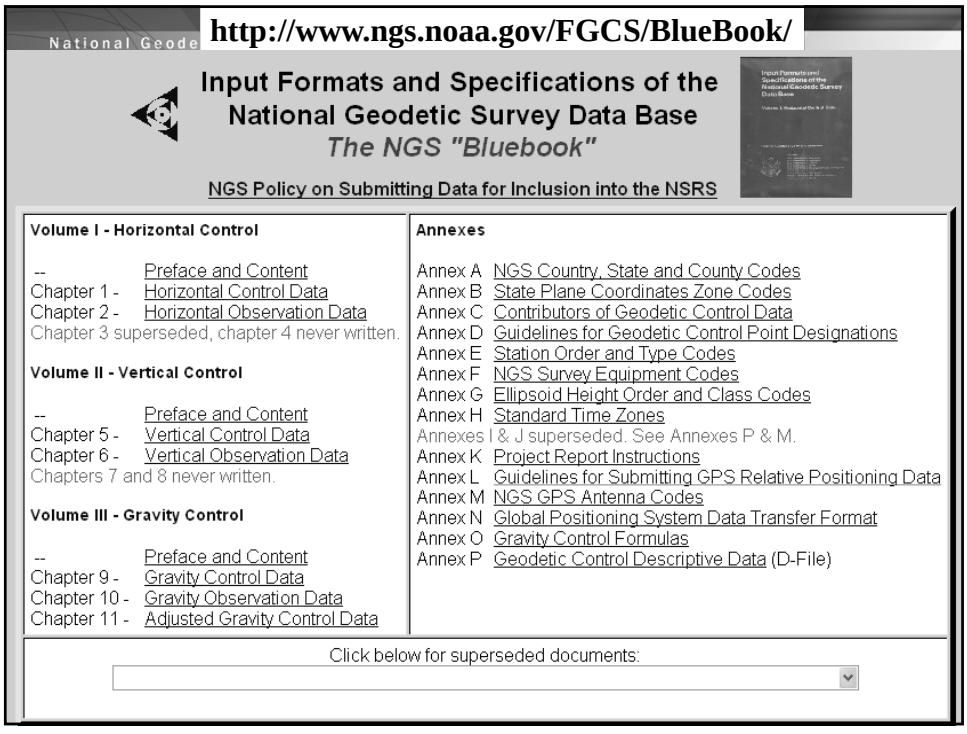

NOAA's National Geodetic Survey Positioning America fo
WinDesc Software
Detailed Station Descriptions
- Designation/SSN
- Position
- Setting Information
- Area Statement
- To Reach
- Detailed Location
WinDesc
About WinDesc
WinDesc
Version 4.15.0
Developed by: Malcolm R. Archer-Shee for the National Oceanic and Atmospheric Administration National Geodetic Survey
OK
System Info...
Translev C:\Projects\L12345.hgz
File Create Edit View Translate Check Tools Help
About Translev
Translev
Version 4.14.61
This program is designed for processing geodetic leveling observations. Report trouble or suggestions for enhancements to: Frank.Mowry@noaa.gov
Please include information about your system, the function you were performing when the problem occured, the date of the NGS data set you were using and your email address or telephone number.
Warning: This product is offered without warrantee or guarantee as to accuracy or completeness of data. It is the user's responsibility to verify all results while using this product.
OK
System Info...
Translev Software
NGS Formatted Level Data
- Vertical Observation File
- Raw Data Transformation
- Editing Field Data
- Leveling Abstract
- New minus Old Comparisons
- Reports
- Designation/SSN


Raw Field Data
Translev
Descriptions
Translated Field Book
WinDesc
Version 4.15.0
Developed by: Malcolm R. Archer-Shee for the National Oceanic and Atmospheric Administration National Geodetic Survey
OK
System Info...


Translev
Abstract
Edited Field Book
Vertical Obs File


NGS "Blue Book"
Input Formats and Specifications of the National Geodetic Survey Data Base
Volume II. Vertical Control Data
Charles W. Challstrom, NOAA
Chairperson, Federal Geodetic Control Subcommittee
Federal Geodetic Data Committee
Silver Spring, MD
September 1994
Reprinted
November 1998
(See Volume I for Annex A through Annex N)
U.S. DEPARTMENT OF COMMERCE
William M. Daley, Secretary
National Oceanic and Atmospheric Administration
Dr. D. James Baker, Administrator
National Ocean Service
Dr. Nancy Foster


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10/23/2009 - International Workshop Held On Monitoring North American Geoid Change (NGS)
From October 21-23, the National Geodetic Survey (NGS) hosted the 2009 Workshop on Monitoring North American Geoid Change at NOAA's David Skaggs facility in Boulder, CO...more


http://www.ngs.noaa.gov/FGCS/BlueBook/
Input Formats and Specifications of the National Geodetic Survey Data Base
The NGS "Bluebook"
NGS Policy on Submitting Data for Inclusion into the NSRS
Volume I - Horizontal Control
-- Preface and Content
Chapter 1 - Horizontal Control Data
Chapter 2 - Horizontal Observation Data
Chapter 3 superseded, chapter 4 never written.
Volume II - Vertical Control
-- Preface and Content
Chapter 5 - Vertical Control Data
Chapter 6 - Vertical Observation Data
Chapters 7 and 8 never written.
Volume III - Gravity Control
-- Preface and Content
Chapter 9 - Gravity Control Data
Chapter 10 - Gravity Observation Data
Chapter 11 - Adjusted Gravity Control Data
Annexes
Annex A NGS Country, State and County Codes
Annex B State Plane Coordinates Zone Codes
Annex C Contributors of Geodetic Control Data
Annex D Guidelines for Geodetic Control Point Designations
Annex E Station Order and Type Codes
Annex F NGS Survey Equipment Codes
Annex G Ellipsoid Height Order and Class Codes
Annex H Standard Time Zones
Annexes I & J superseded. See Annexes P & M.
Annex K Project Report Instructions
Annex L Guidelines for Submitting GPS Relative Positioning Data
Annex M NGS GPS Antenna Codes
Annex N Global Positioning System Data Transfer Format
Annex O Gravity Control Formulas
Annex P Geodetic Control Descriptive Data (D-File)
Click below for superseded documents:

JOB CODE AND SURVEY POINT NUMBERING

The basic unit or grouping of data to be submitted is given the name "job." A vertical control job consists of data for a maximum of 9999 survey points, as "survey point" is defined below. A job may consist of a single project (i.e., one unit of field work), or a number of projects may be included in one job. It is suggested that geographic proximity be the determining factor in selecting vertical control projects for inclusion in any one job. This approach eliminates duplicate keying of DESC data for co-located geodetic projects intended for inclusion in the National Geodetic Survey Data Base, such as two leveling projects in the same area done at different epochs or simultaneous leveling and GPS projects.

Each survey point in a vertical control job must be assigned a unique four-digit serial number (not necessarily consecutive) in the range 0001 through 9999. If the number of survey points exceeds 9999, the vertical control data in question must be divided and submitted as two or more jobs. In general, level lines should not be subdivided. Figure 5-1 illustrates the assignment of station serial numbers (SSNs). This numbering system provides a unique identifier for every survey point in a vertical control job. The same SSN must be used consistently to refer to the same point in the OBS and DESC data sets of a vertical control job.

Descriptive data should be submitted for all survey points, including temporary bench marks (TBMs). The text "No description available" is acceptable for TBMs as long as other elements of the description such as the position, state and county have been entered.

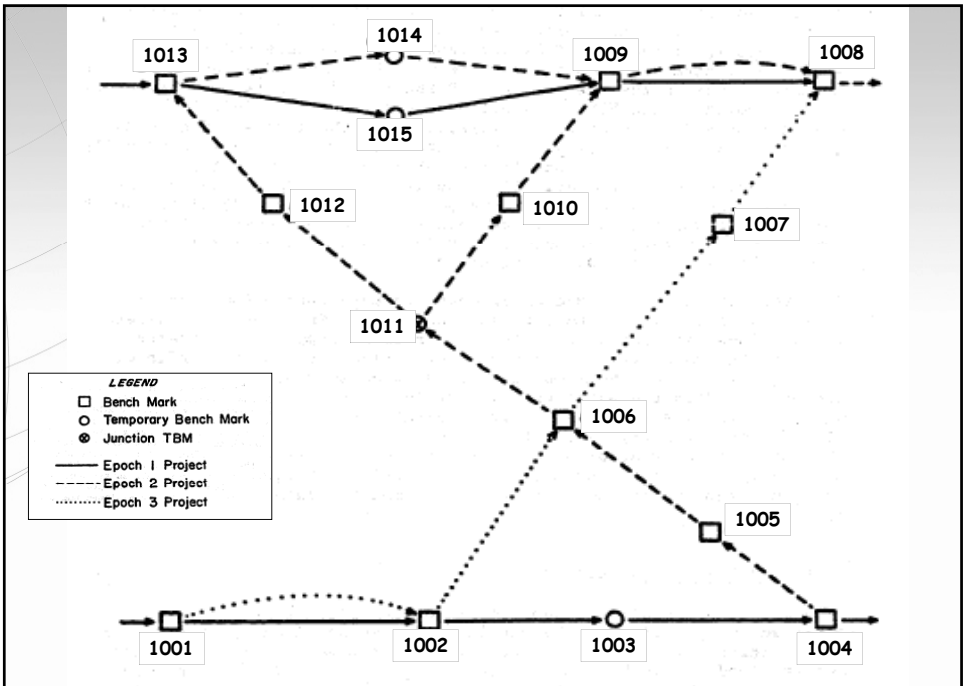
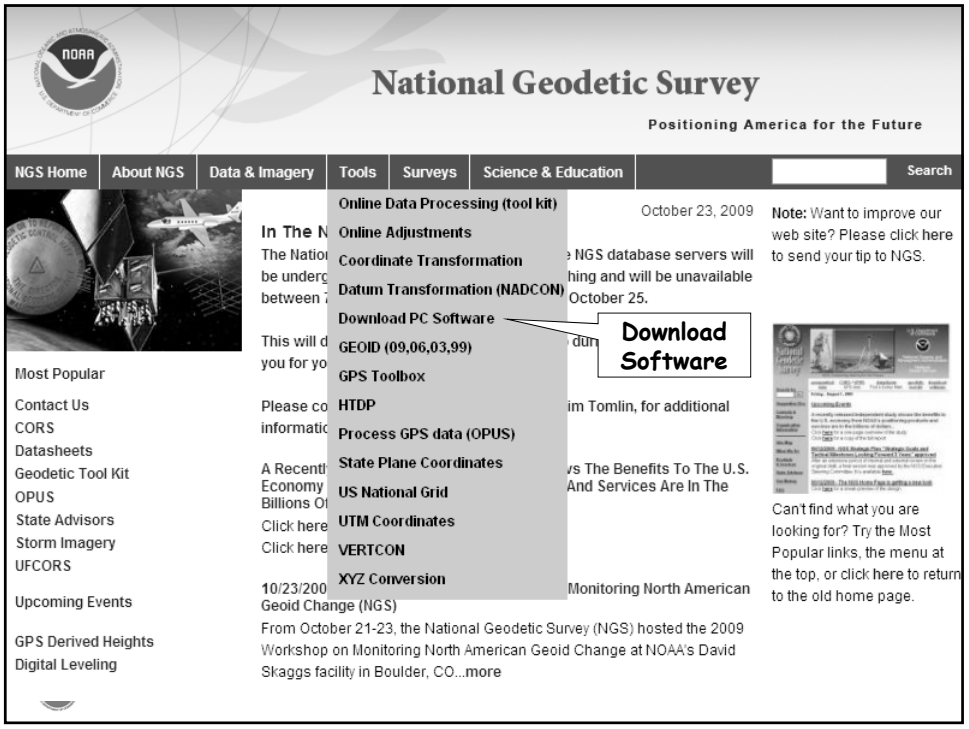
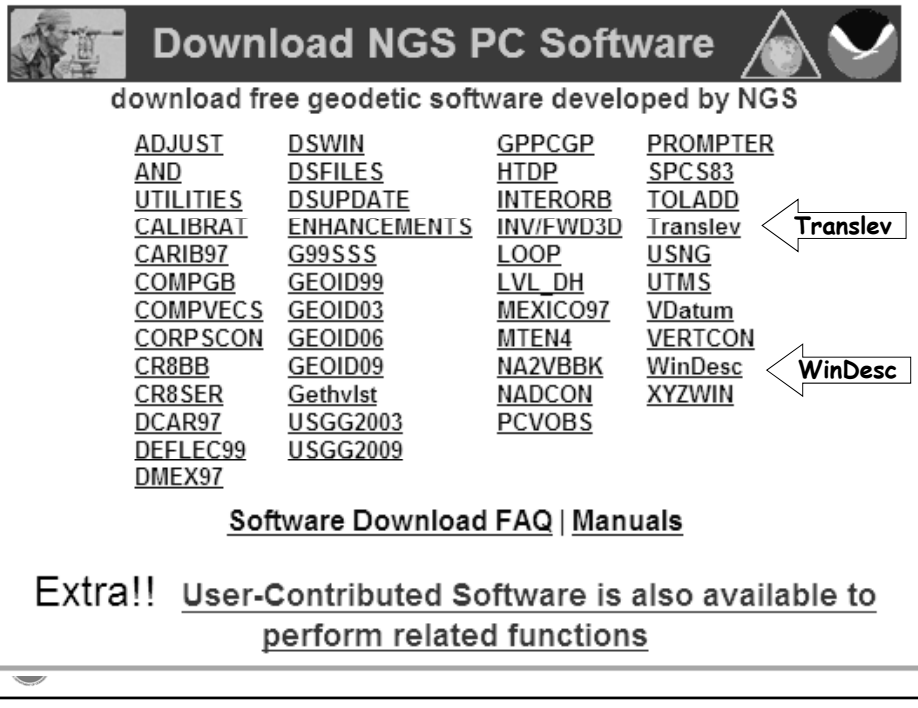
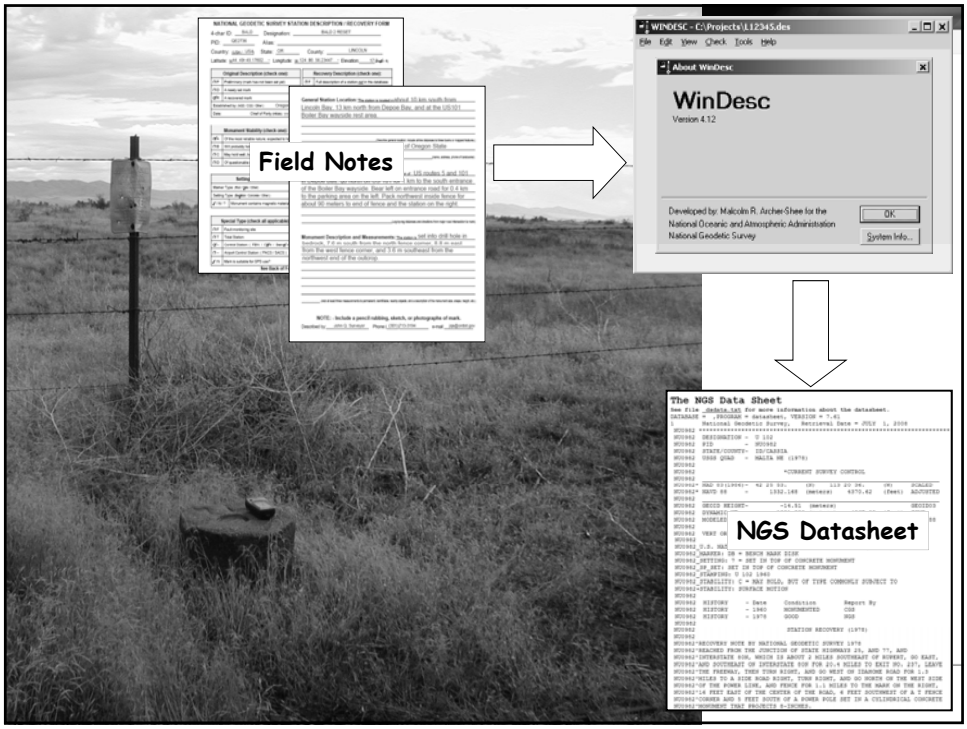


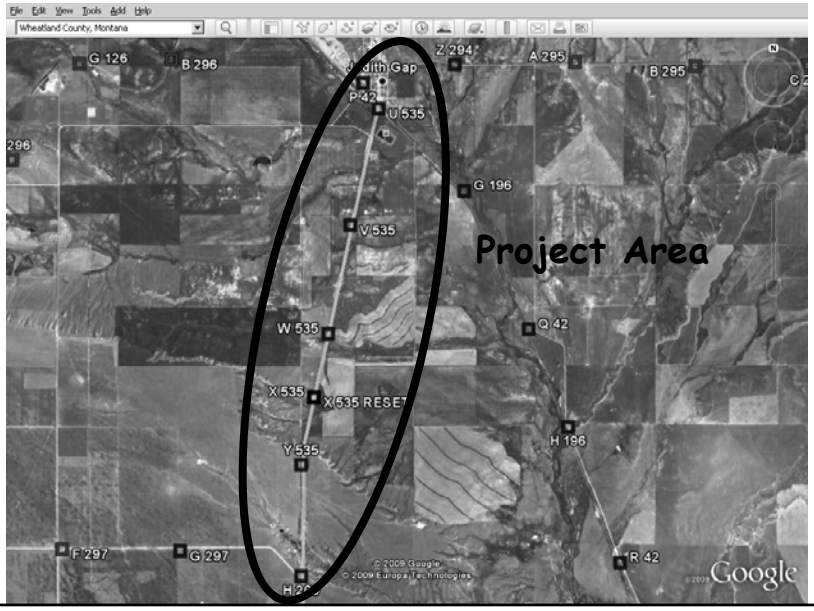
FIGURE 5-1 - Example of vertical survey point numbering.

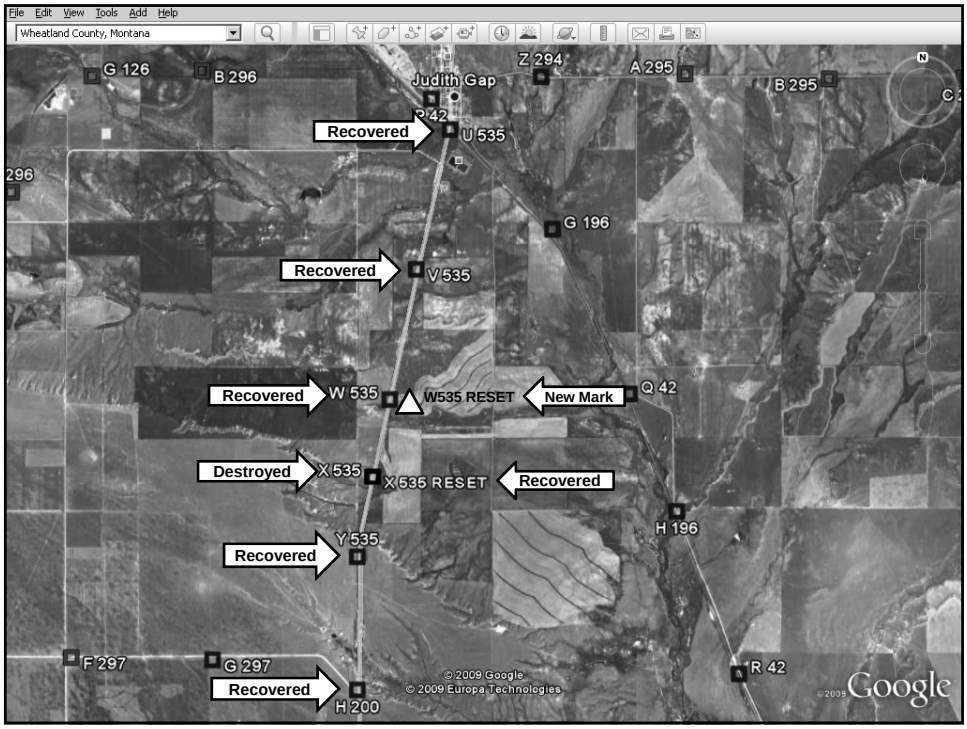

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Project Planning





NOTE: This form intended for field use. Unsolicited data submitted to NGS must be converted to bluebook format.

NATIONAL GEODETIC SURVEY STATION DESCRIPTION / RECOVERY FORM

4-char ID: 1003 Designation: W 535
PID: RV0625 Alias:
Country: (USA /) State: MT County: WHEATLAND
Latitude: N 46 ◦ 38 ' 48 " Longitude: W 109 ◦ 45 ' 41 " Elevation: 1401.106 (m / ft)

Original Description (check one):		Recovery Description (check one):	
❒ P	Preliminary (mark has not been set yet)	❒ F	Full description of a station *not* in the database
❒ D	A newly set mark	❒ T	Full description of a station *in* the database
❒ R	A recovered mark	X M	*Partial* description of a station in the database
Established by: (NGS / CGS / Other)		Recovered by: (NGS / Other)	MTDOT
Date:	Chief of Party (initials):	Date: 03/04/09	Chief of Party (initials): CLS

Monument Stability (check one):		Recovery Condition (check one):	
❒ A	Of the most reliable nature; expected to hold well	X G	Recovered in good condition
X B	Will probably hold position and elevation well	❒ N	Not recovered or not found
❒ C	May hold well, but subject to ground movement	❒ P	Poor, disturbed, or mutilated
❒ D	Of questionable or unknown reliability	❒ X	Surface mark known destroyed

Setting Information:		Stamping:	W 535 1980
Marker Type: (Rod / Disk / Other)		Agency Inscription: (NGS / CGS / Other:)	NGS
Setting Type: (Bedrock / Concrete / Other)	ROD MARK	Rod Depth: (m/ft)	Sleeve Depth: (m/ft)
Y / N (N)	Monument contains magnetic material?	Monument is: (flush / projecting / recessed)	(cm/ft)

Special Type (check all applicable):		Transportation (check one):	
❒ F	Fault monitoring site	❒ C	Car
❒ T	Tidal Station	X P	Light truck (pickup, carry-all, etc.)
❒ --	Control Station: (FBN / CBN / Bench mark)	❒ X	Four-Wheel Drive Vehicle
❒ --	Airport Control Station: (PACS / SACS)	❒ _	Other (SnowCat, Plane, Boat; describe)
(Y) N	Mark is suitable for GPS use?	Y (N)	Pack Time (hike) to mark? (hh:mm):

See Back of Form to add Text Description

Existing Mark

W 535

(PID# RV0625)

NOAA's National Geodetic Surve

Existing Mark

W 535

(PID# RV0625)

General Station Location: The station is located in

RECOVERED AS DESCRIBED
STATION WILL BE DESTROYED IN ROAD CONSTRUCTION LATE APRIL, 2009.

(Describe general location; include airline distances to three towns or mapped features.)

Ownership:

(name, address, phone of landowner)

To Reach Narrative: To reach the station from the intersection of

(Leg-by-leg distances and directions from major road intersection to mark)

Monument Description and Measurements: The station is

(Add at least three measurements to permanent, identifiable, nearby objects; and a description of the monument size, shape, height, etc.)

NOTE: - Include a pencil rubbing, sketch, or photographs of mark.

Described by: CURT SMITH Phone: (208) 332-7197 e-mail: curt.smith@itd.idaho.gov

NOTE: This form intended for field use. Unsolicited data submitted to NGS must be converted to bluebook format.

www.ngs.noaa.gov

New Mark

W 535 RESET

NATIONAL GEODETIC SURVEY STATION DESCRIPTION / RECOVERY FORM

4-char ID: 1004 Designation: W 535 RESET

PID: Alias:

Country: (USA /) State: MT County: WHEATLAND

Latitude: N 46 ° 38 · 49.0· Longitude: W 109 ° 45 · 38.5· Elevation: (meter / ft)

Original Description (check one):	
☐ P	Preliminary (mark has not been set yet)
☒ D	A newly set mark
☐ R	A recovered mark
Established by: (NGS / CGS / Other:)	MTDOT
Date: 3/04/09	Chief of Party (initials): CLS

Recovery Description (check one):	
☐ F	Full description of a station *not* in the database
☐ T	Full description of a station *in* the database
☐ M	*Partial* description of a station in the database
Recovered by: (NGS / Other:)	
Date:	Chief of Party (initials):

Monument Stability (check one):	
☐ A	Of the most reliable nature; expected to hold well
☒ B	Will probably hold position and elevation well
☐ C	May hold well, but subject to ground movement
☐ D	Of questionable or unknown reliability

Recovery Condition (check one):	
☐ G	Recovered in good condition
☐ N	Not recovered or not found
☐ P	Poor, disturbed, or mutilated
☐ X	Surface mark known destroyed

Setting Information:	
Marker Type: (Rod) Disk / Other)	
Setting Type: (Bedrock / Concrete (Other) ROD MARK	
Y (N) ?	Monument contains magnetic material?

Stamping:	W 535 RESET 2009
Agency Inscription: (NGS / CGS / Other:)	MTDOT
Rod Depth: 2.85 (m/ft)	Sleeve Depth: N/A (m/ft)
Monument is: (flush) / projecting / recessed)	(cm/ft)

Special Type (check all applicable):	
☐ F	Fault monitoring site
☐ T	Tidal Station
☐ --	Control Station: (FBN / CBN / Bench mark)
☐ --	Airport Control Station: (PACS / SACS)
(Y) N	Mark is suitable for GPS use?

Transportation (check one):	
☐ C	Car
☒ P	Light truck (pickup, carry-all, etc.)
☐ X	Four-Wheel Drive Vehicle
☐ __	Other (SnowCat, Plane, Boat; describe)
Y (N)	Pack Time (hike) to mark? (hh:mm):

See Back of Form to add Text Description

NOAA's National Geodetic Surv

New Mark

W 535 RESET

General Station Location: The station is located in ABOUT 2.1 MI. SOUTH OF JUDITH GAP, 0.1 MI. SOUTH OF HWY MILE POST 16.

(Describe general location; include airline distances to three towns or mapped features.)

Ownership: HIGHWAY RIGHT OF WAY.

(name, address, phone of landowner)

To Reach Narrative: To reach the station from the intersection of U.S. HIGHWAY 191 AND MONTANA AVENUE ON THE SOUTH SIDE OF JUDITH GAP, GO SOUTH ON HIGHWAY 191 FOR 2.0 MI. TO THE STATION ON THE LEFT.

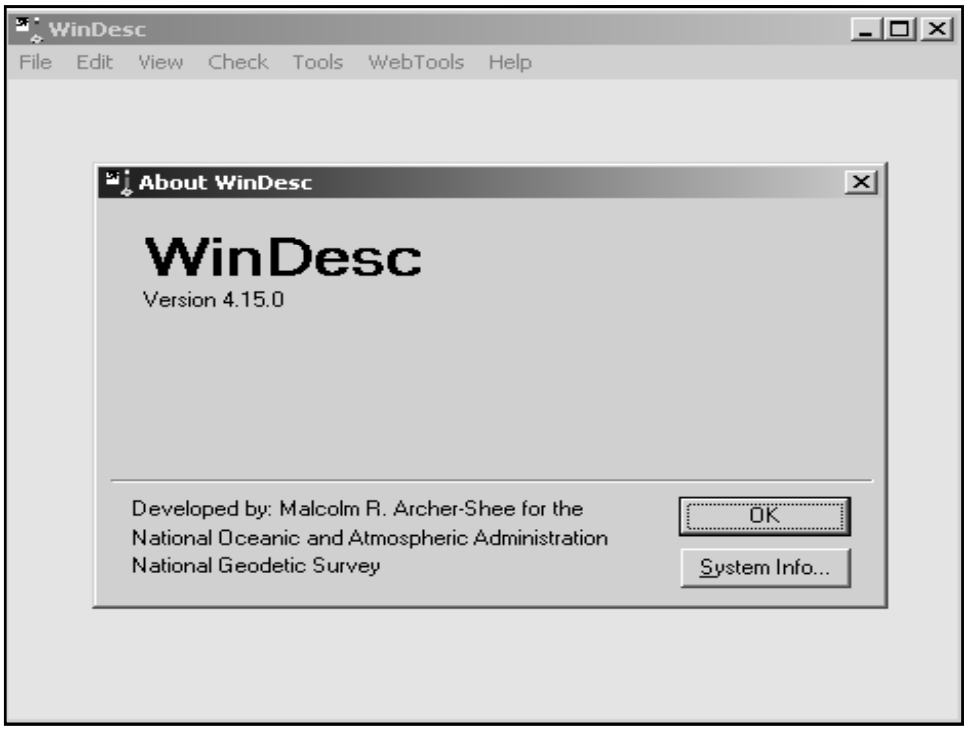
(Leg-by-leg distances and directions from major road intersection to mark)

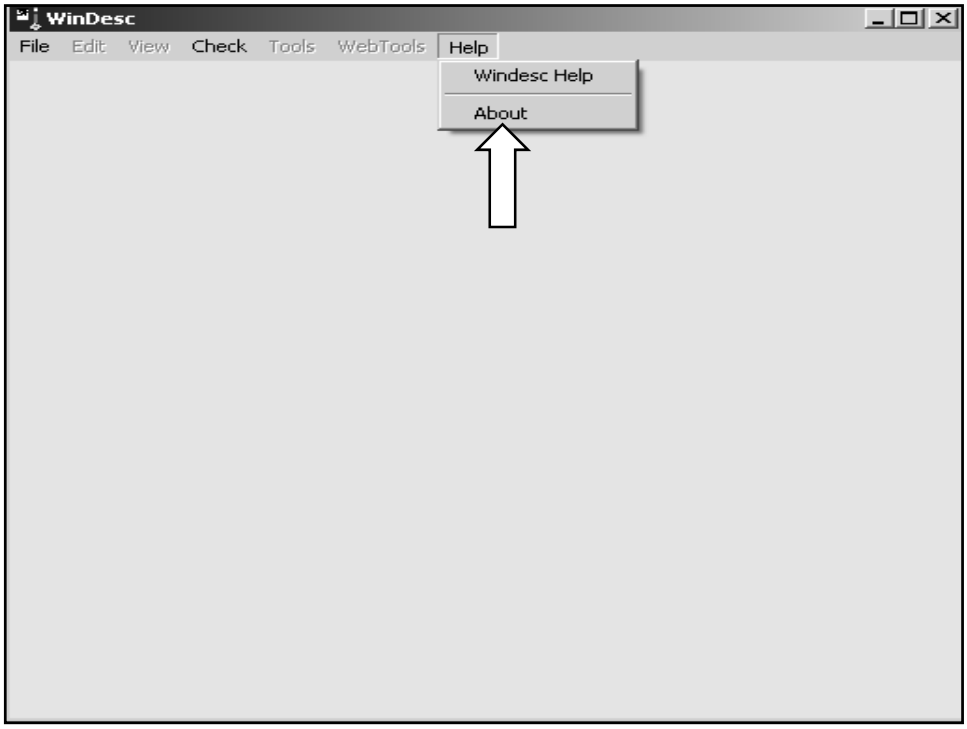
Monument Description and Measurements: The station is THE TOP CENTER OF A STAINLESS STEEL ROD DRIVEN TO REFUSAL ENCASED IN A 5 INCH PVC PIPE WITH ALUMINUM LOGO CAP SURROUNDED BY CONCRETE AND FLUSH WITH THE GROUND. IT IS 39.0 M EAST FROM THE ℄ OF HIGHWAY, 80.8 M SOUTH FROM ℄ OF A FIELD APPROACH, 0.9 M EAST FROM A METAL WIT. POST, AND 0.5 M WEST FROM A CARSONITE WIT. POST

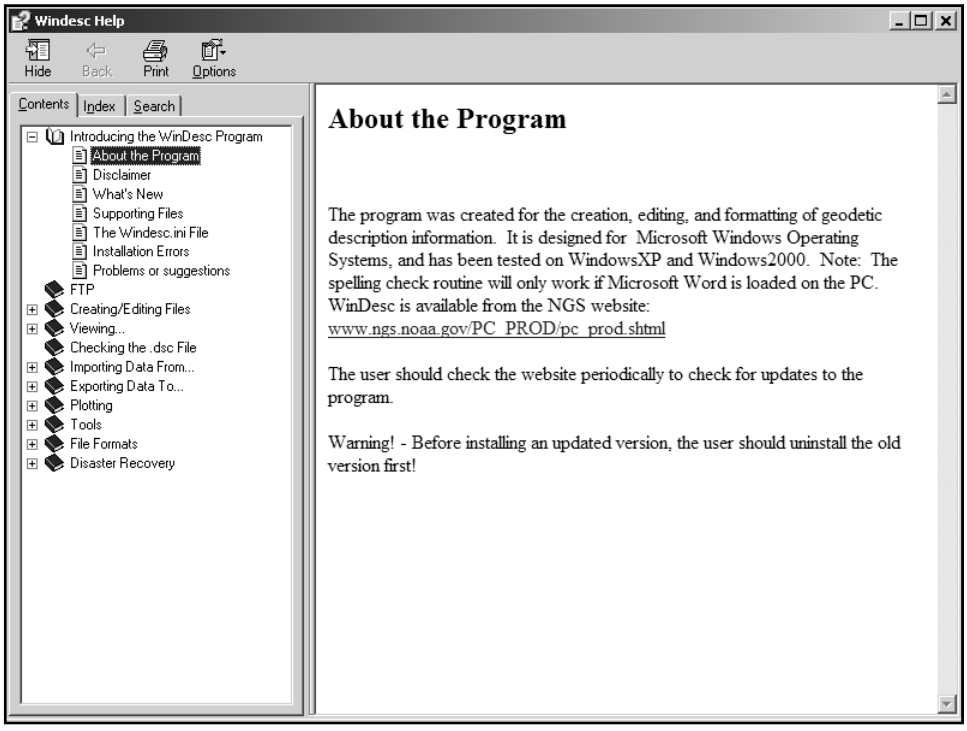
(Add at least three measurements to permanent, identifiable, nearby objects; and a description of the monument size, shape, height, etc.)

NOTE: - Include a pencil rubbing, sketch, or photographs of mark.

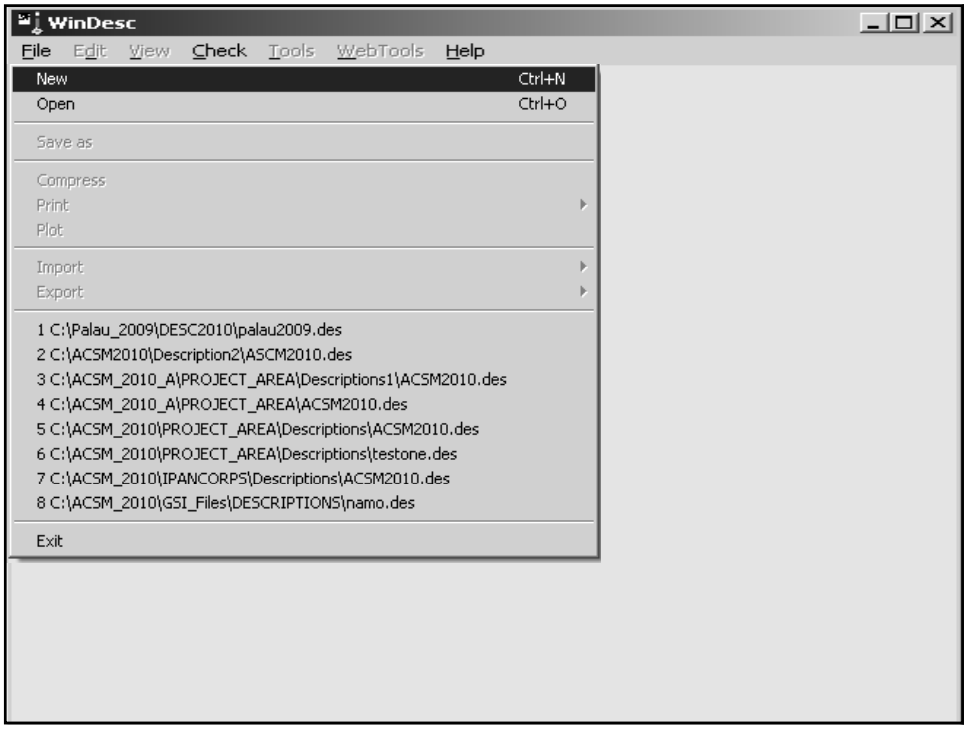
Described by: CURT SMITH Phone: (208) 332-7197 e-mail: curt.smith@noaa.gov

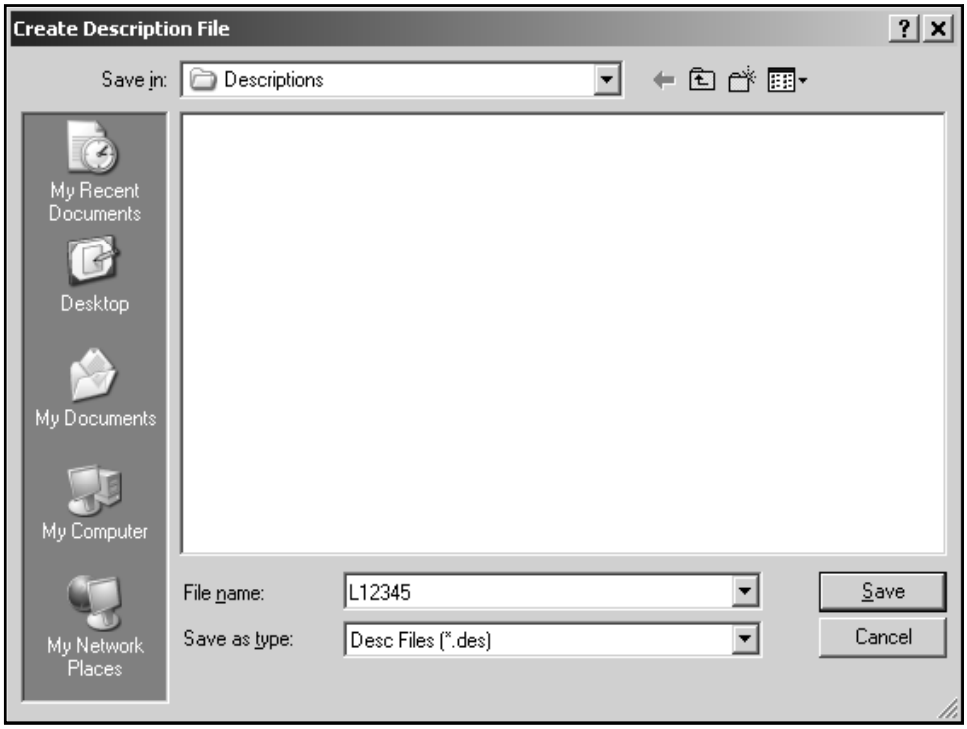


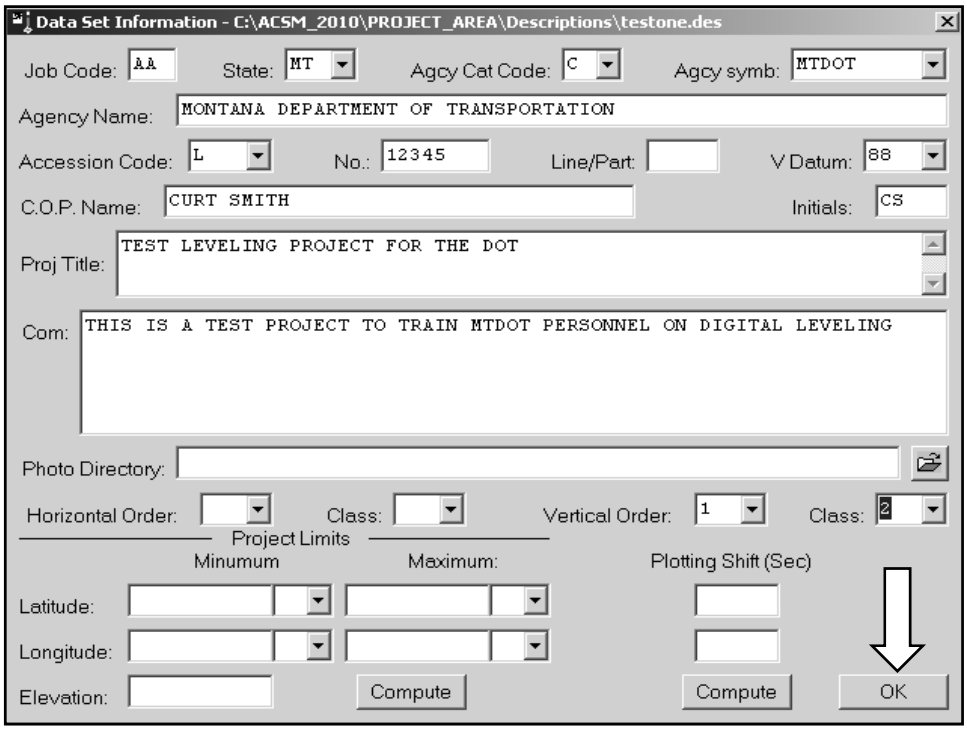

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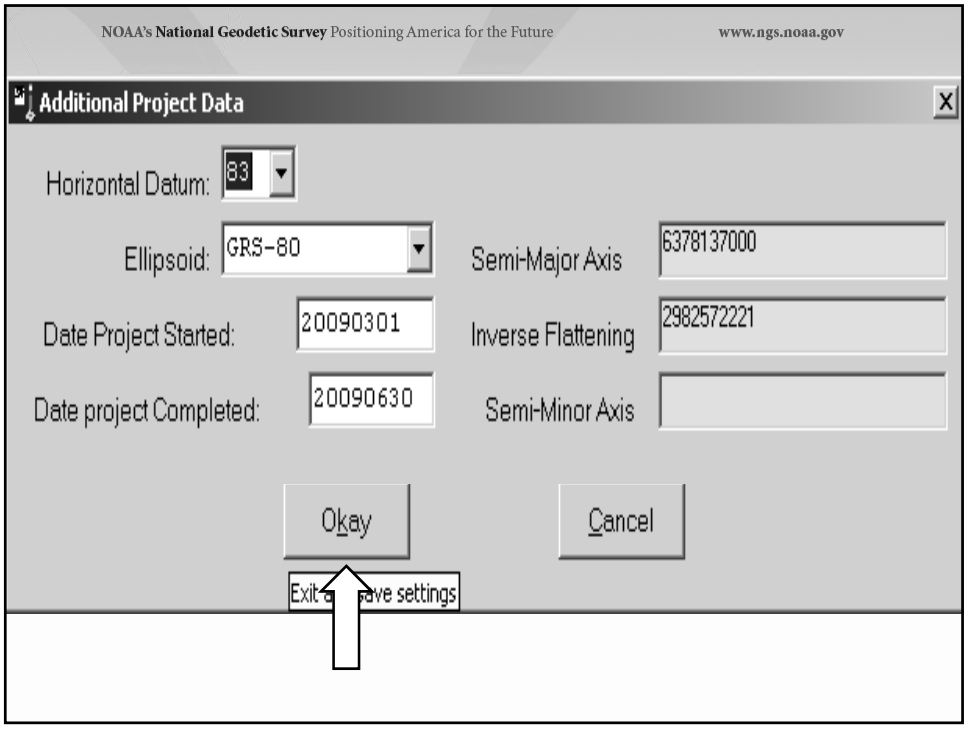

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What's New
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Viewing...
Checking the .dsc File
Importing Data From...
Exporting Data To...
Plotting
Tools
File Formats
Disaster Recovery
About the Program
The program was created for the creation, editing, and formatting of geodetic description information. It is designed for Microsoft Windows Operating Systems, and has been tested on WindowsXP and Windows2000. Note: The spelling check routine will only work if Microsoft Word is loaded on the PC. WinDesc is available from the NGS website:
www.ngs.noaa.gov/PC_PROD/pc_prod.shtml
The user should check the website periodically to check for updates to the program.
Warning! - Before installing an updated version, the user should uninstall the old version first!


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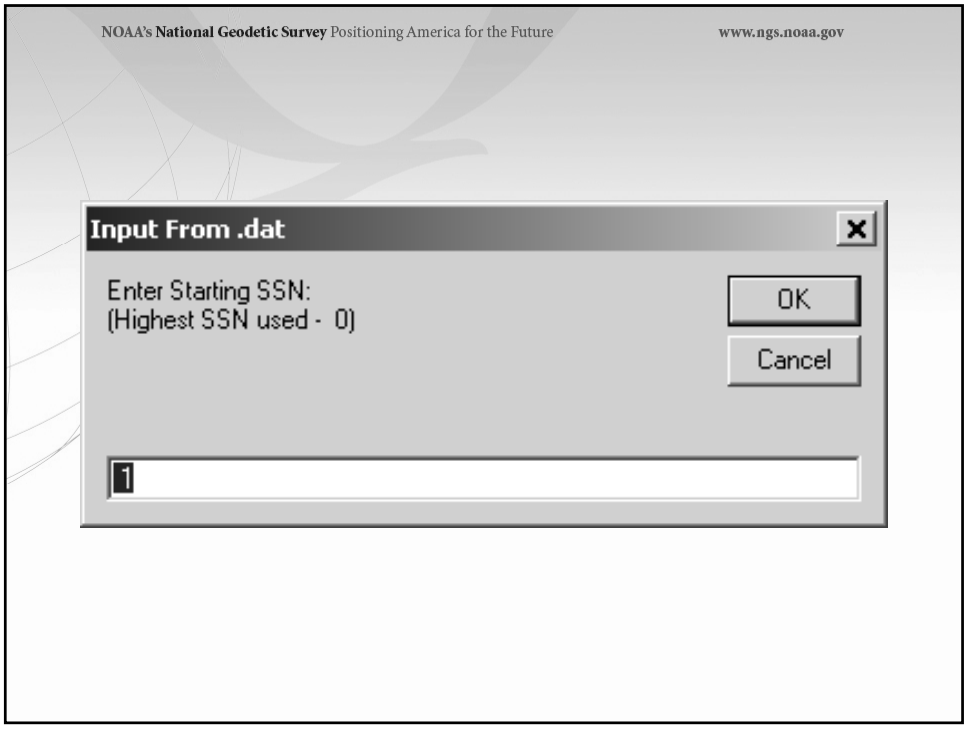

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Open Ctrl+O
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1 C:\Palau_2009\DESC2010\palau2009.des
2 C:\ACSM2010\Description2\ASCM2010.des
3 C:\ACSM_2010_A\PROJECT_AREA\Descriptions1\ACSM2010.des
4 C:\ACSM_2010_A\PROJECT_AREA\ACSM2010.des
5 C:\ACSM_2010\PROJECT_AREA\Descriptions\ACSM2010.des
6 C:\ACSM_2010\PROJECT_AREA\Descriptions\testone.des
7 C:\ACSM_2010\IPANCORPS\Descriptions\ACSM2010.des
8 C:\ACSM_2010\GSI_Files\DESCRIPTIONS\namo.des
Exit


Create Description File
Save in:
Descriptions
My Recent Documents
Desktop
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My Computer
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File name:
L12345
Save as type:
Desc Files (*.des)
Save
Cancel

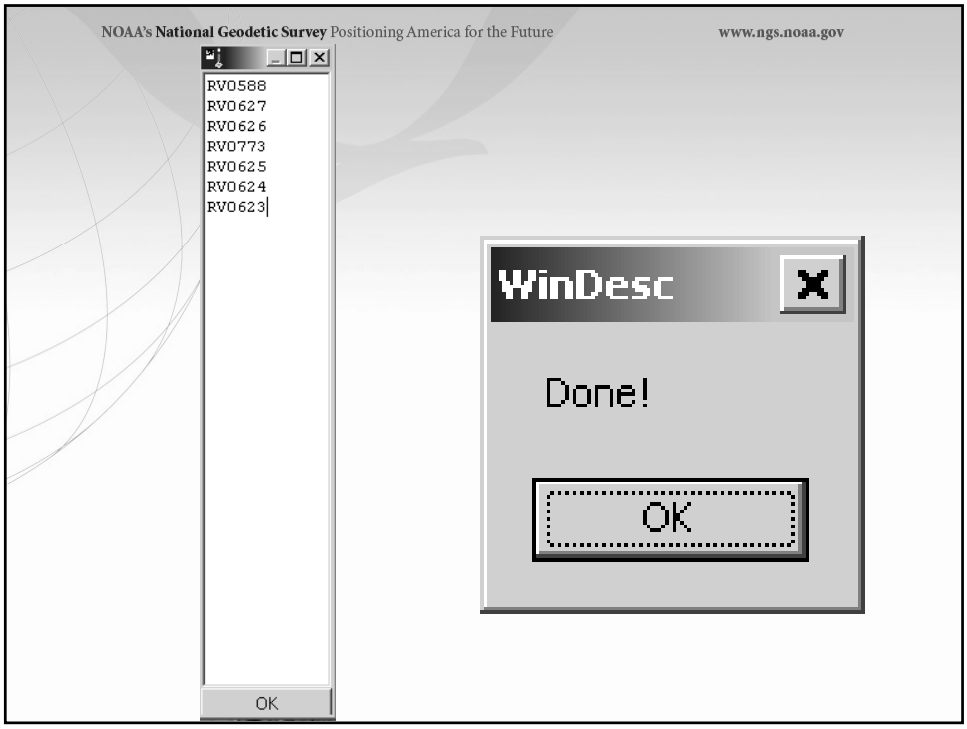

Data Set Information - C:\ACSM_2010\PROJECT_AREA\Descriptions\testone.des
Job Code: AA
State: MT
Agcy Cat Code: C
Agcy symb: MTDOT
Agency Name: MONTANA DEPARTMENT OF TRANSPORTATION
Accession Code: L
No.: 12345
Line/Part:
V Datum: 88
C.O.P. Name: CURT SMITH
Initials: CS
Proj Title: TEST LEVELING PROJECT FOR THE DOT
Com: THIS IS A TEST PROJECT TO TRAIN MTDOT PERSONNEL ON DIGITAL LEVELING
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Additional Project Data
Horizontal Datum:
83
Ellipsoid:
GRS-80
Semi-Major Axis
6378137000
Date Project Started:
20090301
Inverse Flattening
2982572221
Date project Completed:
20090630
Semi-Minor Axis
Okay
Cancel
Exit
ave settings

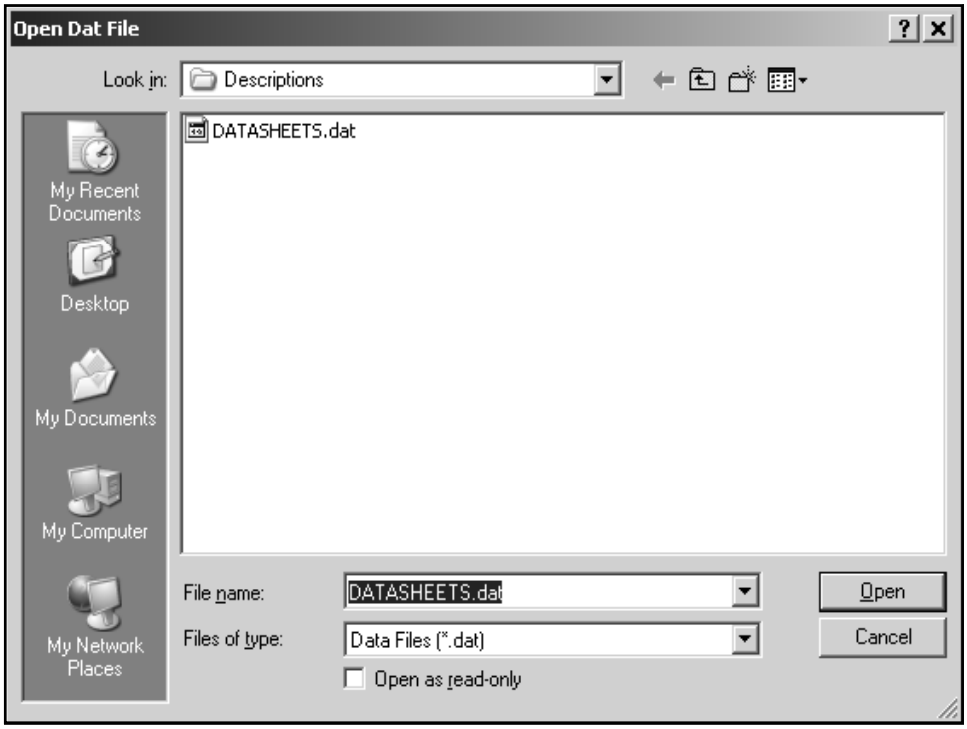

WINDESC - C:\Palau_2009\DESC2010\test.des
File
Edit
View
Check
Tools
WebTools
Help
New
Ctrl+N
Open
Ctrl+O
Save as
Compress
Print
Plot
Import
Export
1 C:\Palau_2009\DESC2010\test.des
2 C:\Palau_2009\DESC2010\palau2009.des
3 C:\ACSM2010\Description2\ASCM2010.des
4 C:\ACSM_2010_A\PROJECT_AREA\Descriptions1\ACSM2010.des
5 C:\ACSM_2010_A\PROJECT_AREA\ACSM2010.des
6 C:\ACSM_2010\PROJECT_AREA\Descriptions\ACSM2010.des
7 C:\ACSM_2010\PROJECT_AREA\Descriptions\testone.des
8 C:\ACSM_2010\IPANCORPS\Descriptions\ACSM2010.des
Exit
Dsdata (.dat)
HZTLOBS (B-File)
Unified (.ha, .lst)
From Internet
By County
By Lat, Lon, Radius
By Project Limits
By Project
By List of PIDs


NOAA's National Geodetic Survey Positioning America for the Future
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Input From .dat
Enter Starting SSN:
(Highest SSN used - 0)
OK
Cancel
1

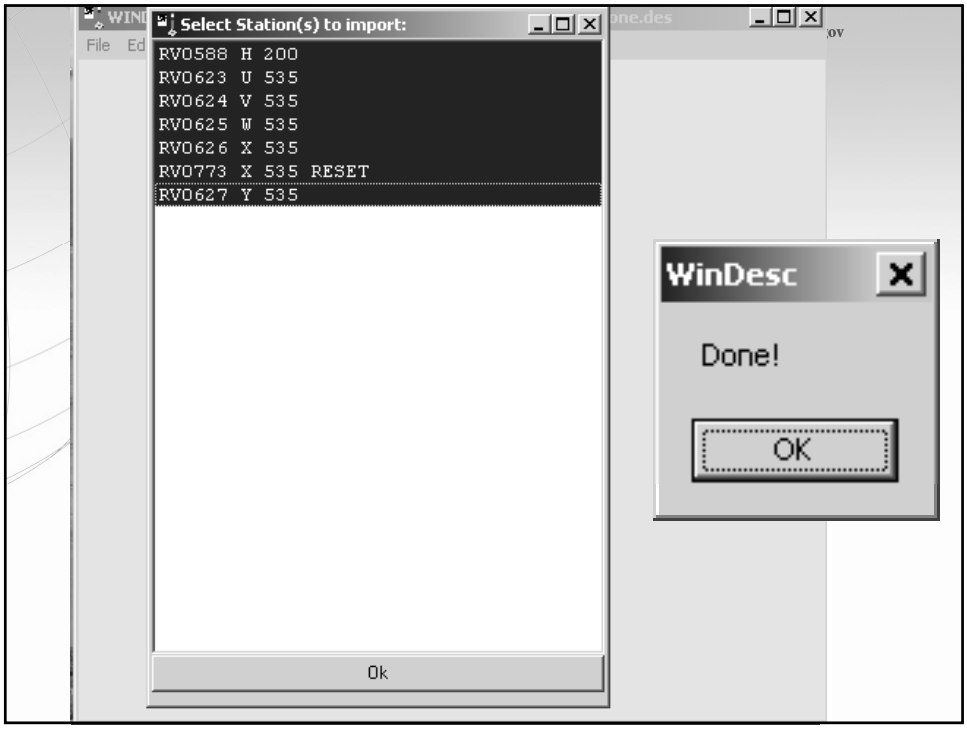

Download Options
What do you want to import?
Position
Heading
Text
Okay
Cancel

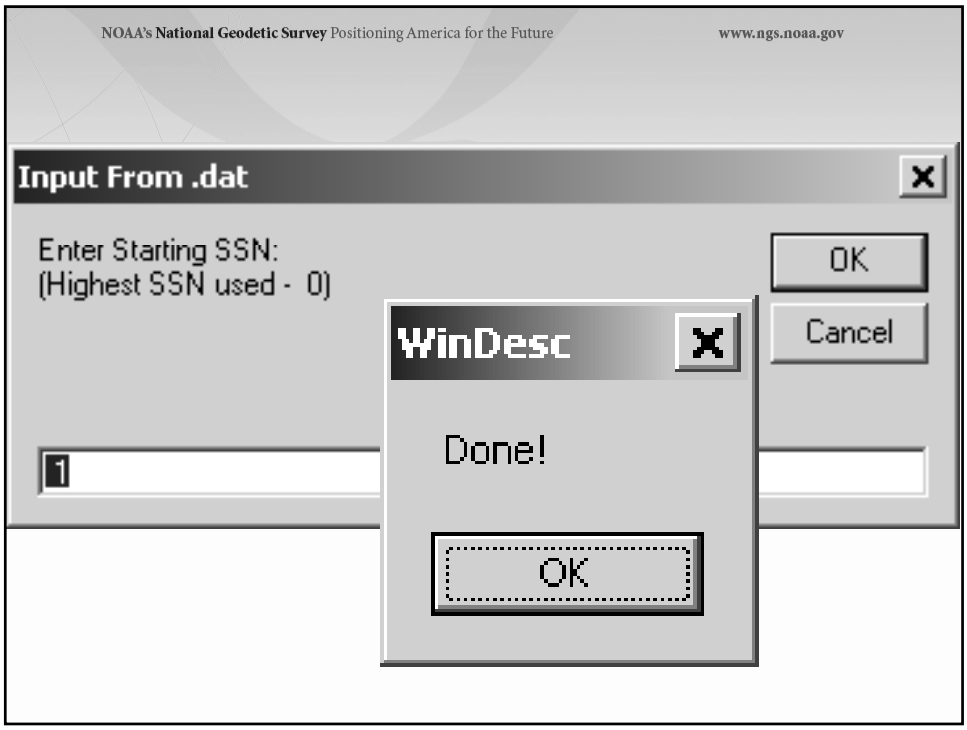

NOAA's National Geodetic Survey Positioning America for the Future
www.ngs.noaa.gov
RV0588
RV0627
RV0626
RV0773
RV0625
RV0624
RV0623
OK
WinDesc
Done!
OK

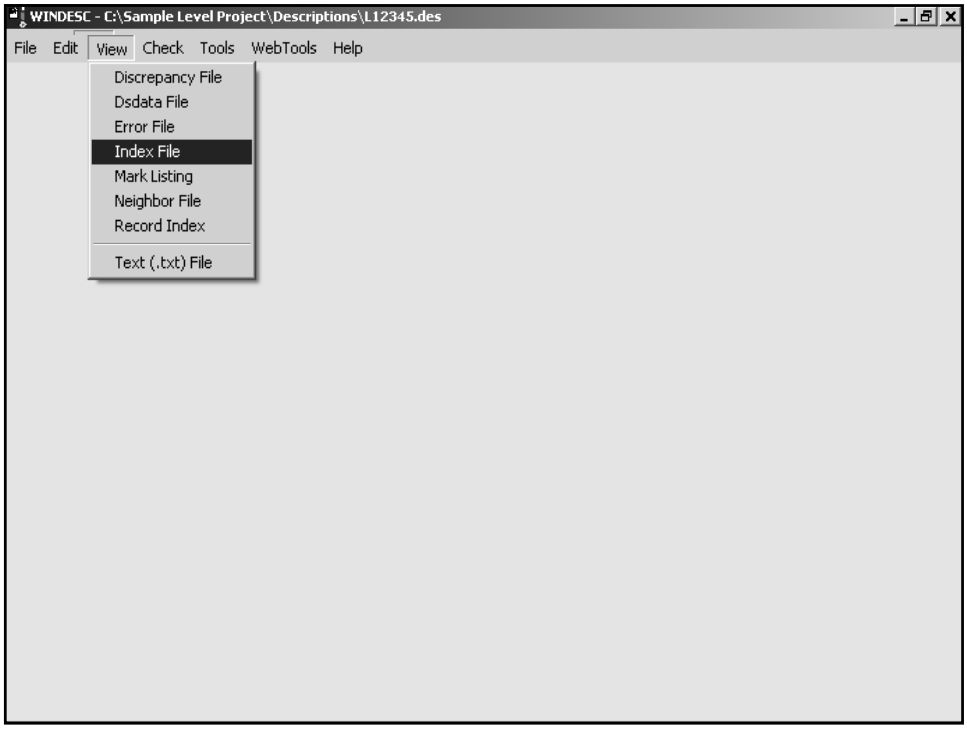

WINDESC - C:\Sample Level Project\Descriptions\L12345.des
File Edit View Check Tools WebTools Help
New Ctrl+N
Open Ctrl+O
Save as
Compress
Print
Plot
Import
Export
Dsdata (.dat)
HZTLOBS (B-File)
Unified (.ha, .lst)
From Internet
1 C:\Palau_2009\DESC2010\test.des
2 C:\Palau_2009\DESC2010\palau2009.des
3 C:\ACSM2010\Description2\ASCM2010.des
4 C:\ACSM_2010_A\PROJECT_AREA\Descriptions1\ACSM2010.des
5 C:\ACSM_2010_A\PROJECT_AREA\ACSM2010.des
6 C:\ACSM_2010\PROJECT_AREA\Descriptions\ACSM2010.des
7 C:\ACSM_2010\PROJECT_AREA\Descriptions\testone.des
8 C:\ACSM_2010\IPANCORPS\Descriptions\ACSM2010.des
Exit

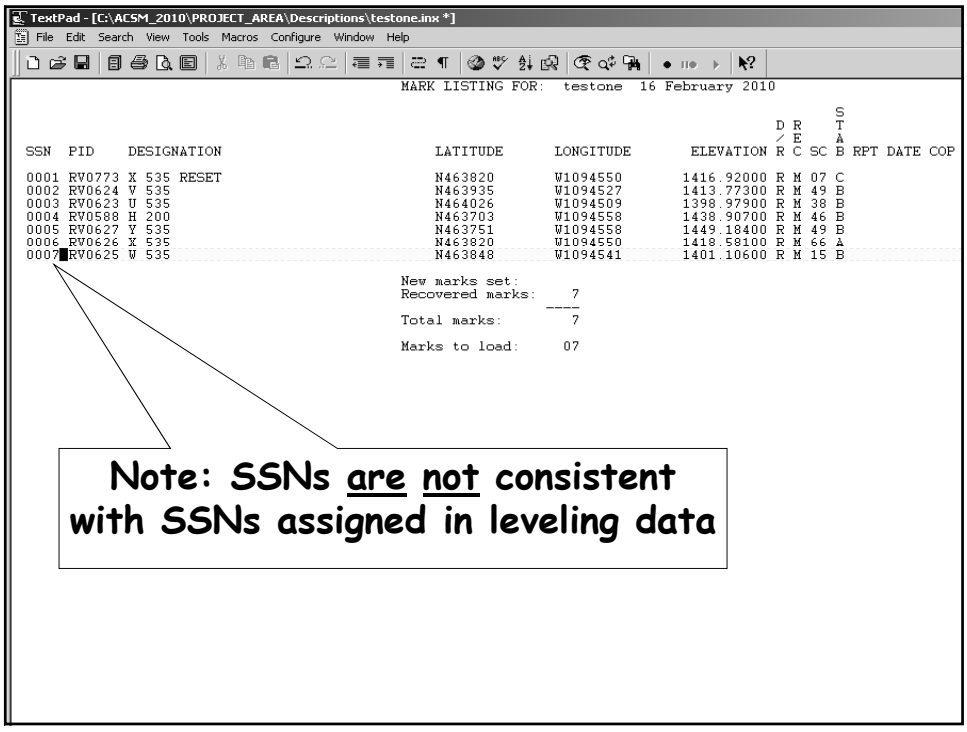

Open Dat File
Look in:
Descriptions
DATASHEETS.dat
My Recent Documents
Desktop
My Documents
My Computer
My Network Places
File name:
DATASHEETS.dat
Files of type:
Data Files (*.dat)
Open as read-only
Open
Cancel

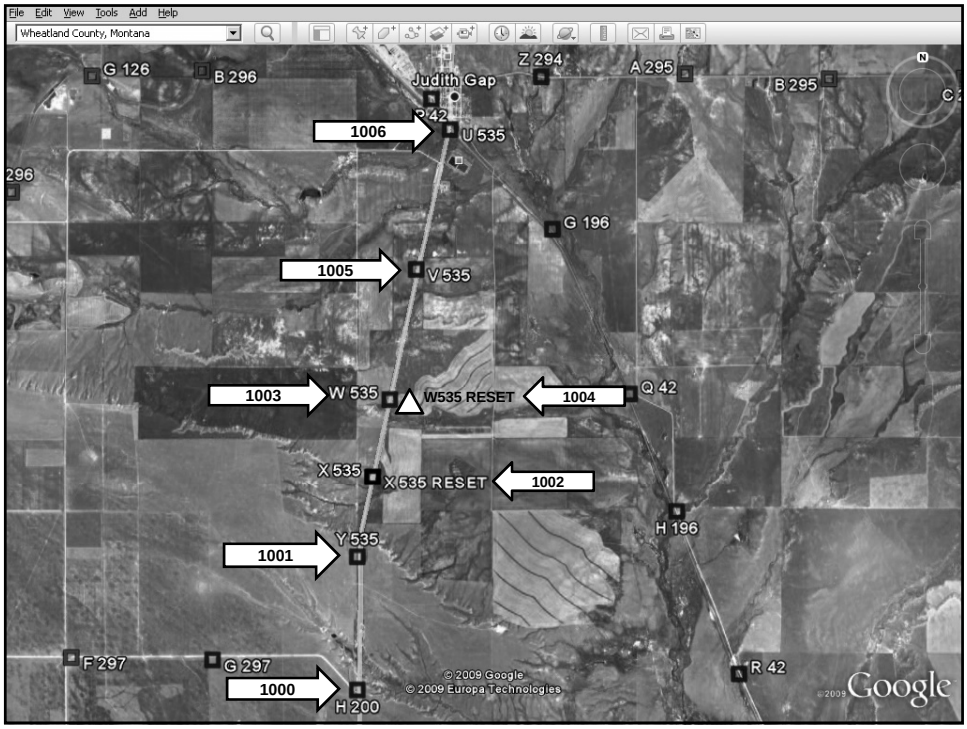

Download Options
What do you want to import?
Position
Heading
Text
Okay
Cancel

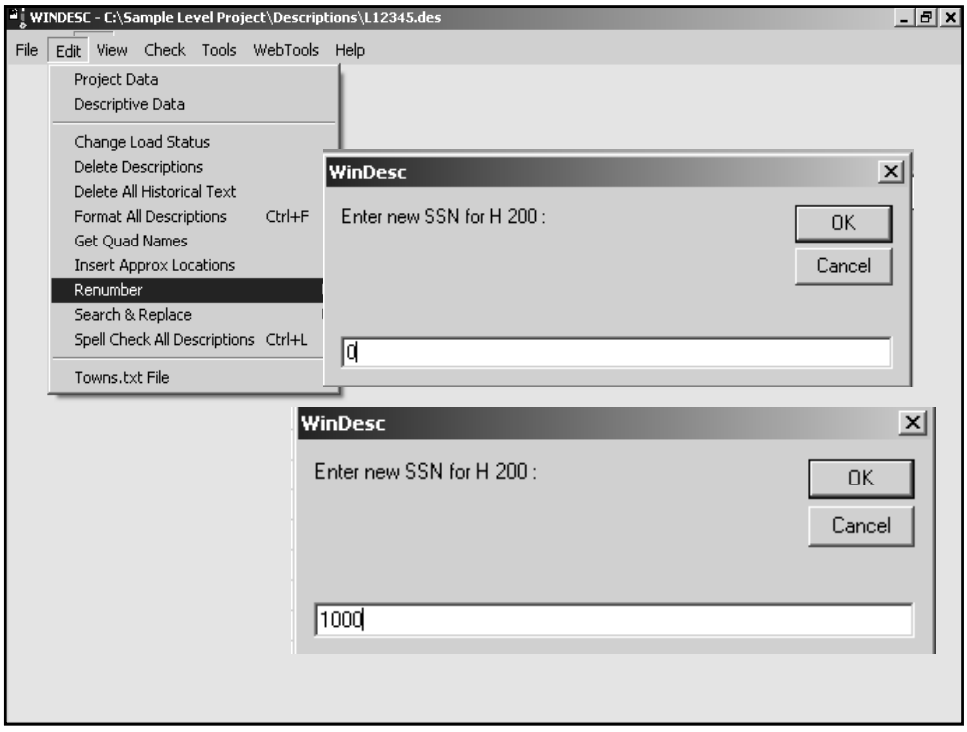

Select Station(s) to import:
RV0588 H 200
RV0623 U 535
RV0624 V 535
RV0625 W 535
RV0626 X 535
RV0773 X 535 RESET
RV0627 Y 535
Ok
WinDesc
Done!
OK

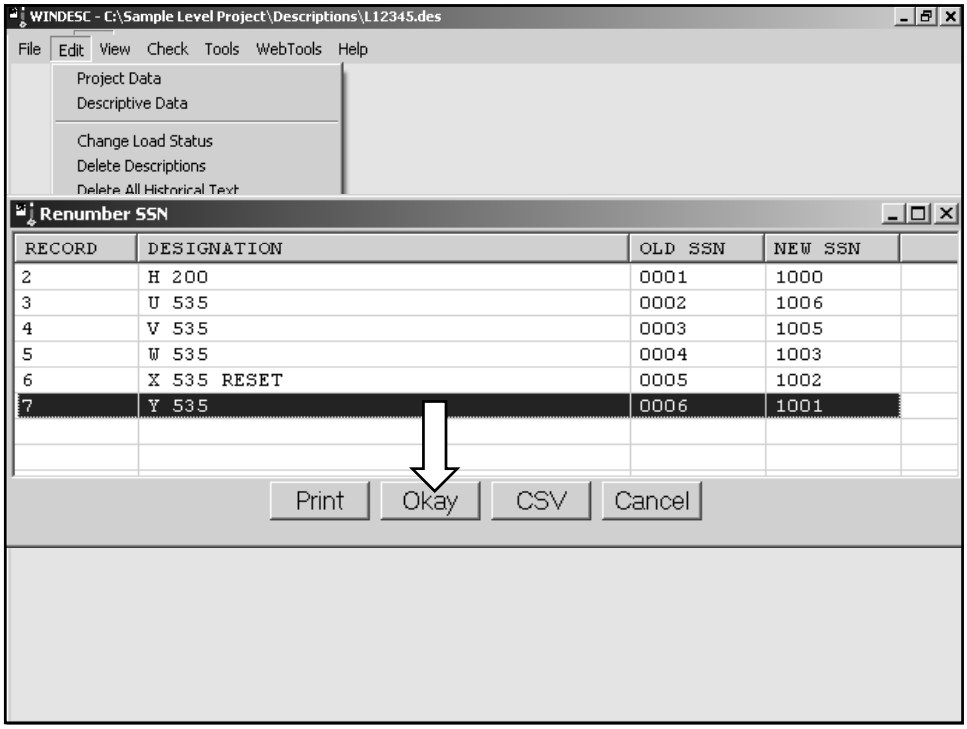

NOAA's National Geodetic Survey Positioning America for the Future
www.ngs.noaa.gov
Input From .dat
Enter Starting SSN:
(Highest SSN used - 0)
OK
Cancel
1
WinDesc
Done!
OK

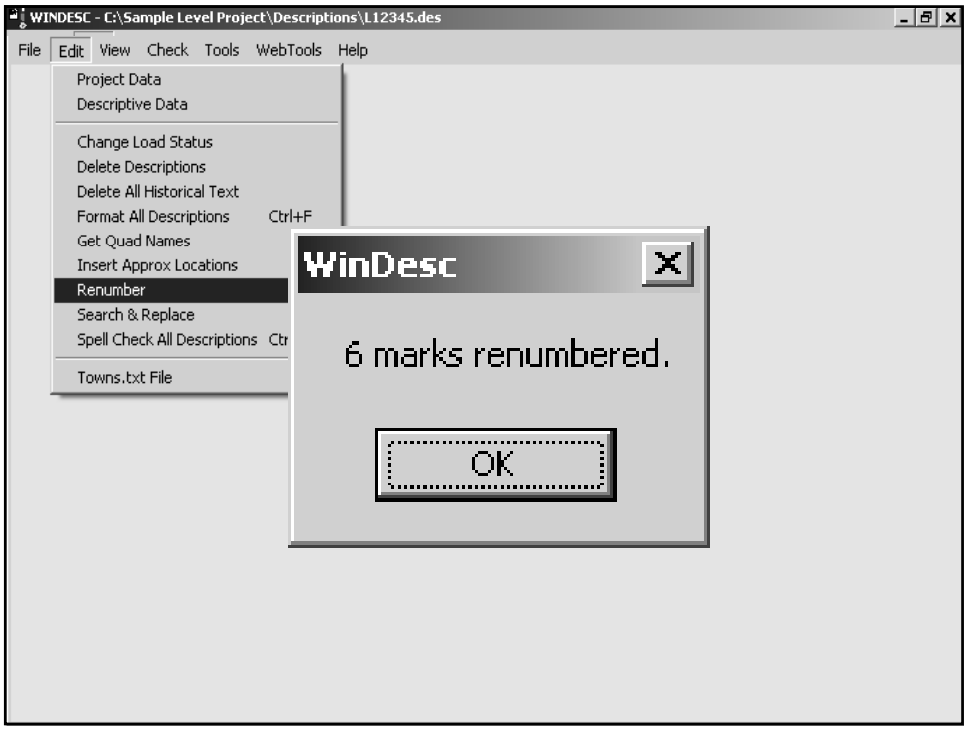

WINDESC - C:\Sample Level Project\Descriptions\L12345.des
File Edit View Check Tools WebTools Help
Discrepancy File
Dsdata File
Error File
Index File
Mark Listing
Neighbor File
Record Index
Text (.txt) File

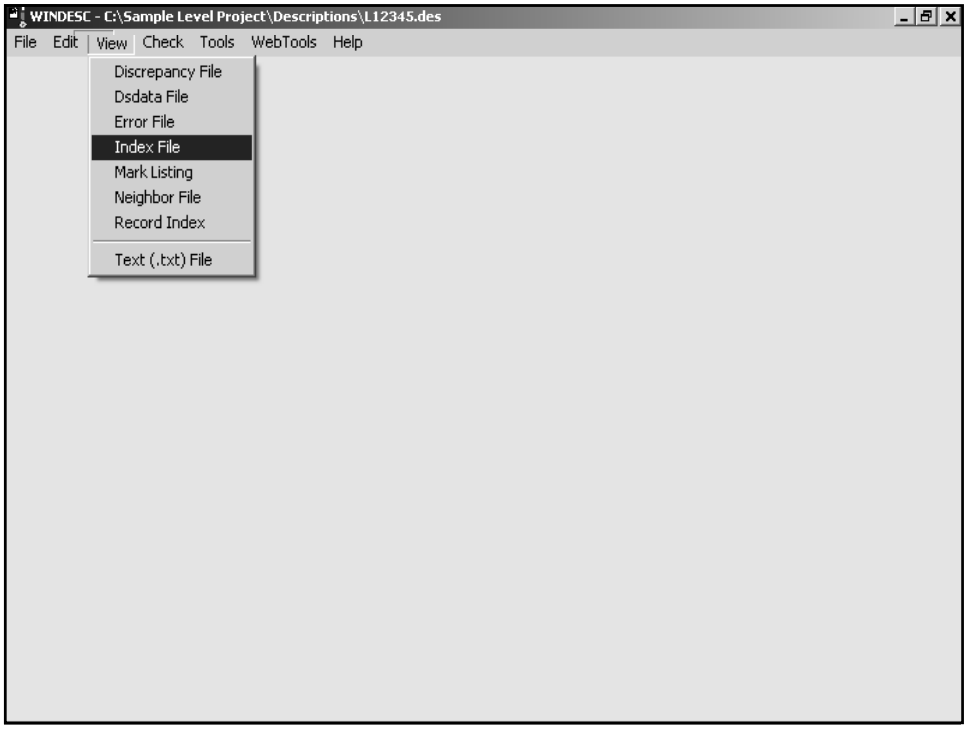

TextPad - [C:\ACSM_2010\PROJECT_AREA\Descriptions\testone.inx *]
File Edit Search View Tools Macros Configure Window Help
MARK LISTING FOR: testone 16 February 2010
SSN PID DESIGNATION LATITUDE LONGITUDE ELEVATION D/E R C SC STAB RPT DATE COP
0001 RV0773 X 535 RESET N463820 W1094550 1416.92000 R M 07 C
0002 RV0624 V 535 N463935 W1094527 1413.77300 R M 49 B
0003 RV0623 U 535 N464026 W1094509 1398.97900 R M 38 B
0004 RV0588 H 200 N463703 W1094558 1438.90700 R M 46 B
0005 RV0627 Y 535 N463751 W1094558 1449.18400 R M 49 B
0006 RV0626 X 535 N463820 W1094550 1418.58100 R M 66 A
0007 RV0625 W 535 N463848 W1094541 1401.10600 R M 15 B
New marks set:
Recovered marks: 7
Total marks: 7
Marks to load: 07
Note: SSNs are not consistent with SSNs assigned in leveling data

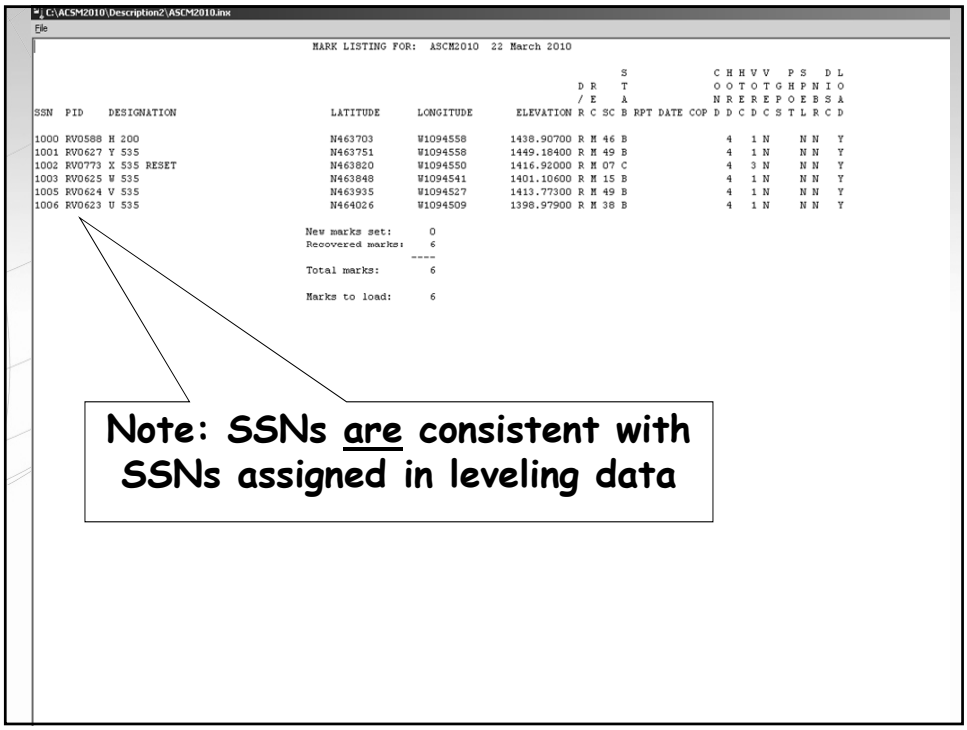

File Edit View Tools Add Help
Wheatland County, Montana
G 126
B 296
Judith Gap
Z 294
A 295
B 295
R 42
1006
U 535
296
G 196
1005
V 535
1003
W 535
W535 RESET
1004
Q 42
X 535
X 535 RESET
1002
H 196
Y 535
1001
F 297
G 297
1000
H 200
R 42
© 2009 Google
© 2009 Europa Technologies
Google

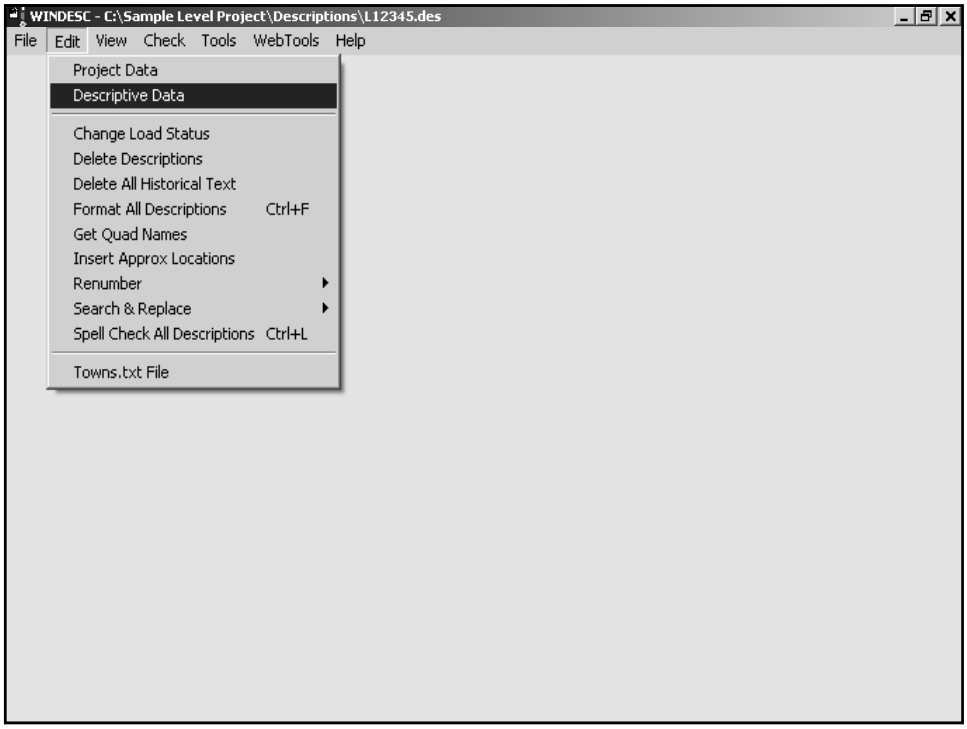

WINDESC - C:\Sample Level Project\Descriptions\L12345.des
File Edit View Check Tools WebTools Help
Project Data
Descriptive Data
Change Load Status
Delete Descriptions
Delete All Historical Text
Format All Descriptions Ctrl+F
Get Quad Names
Insert Approx Locations
Renumber
Search & Replace
Spell Check All Descriptions Ctrl+L
Towns.txt File
WinDesc
Enter new SSN for H 200 :
OK
Cancel
0
WinDesc
Enter new SSN for H 200 :
OK
Cancel
1000

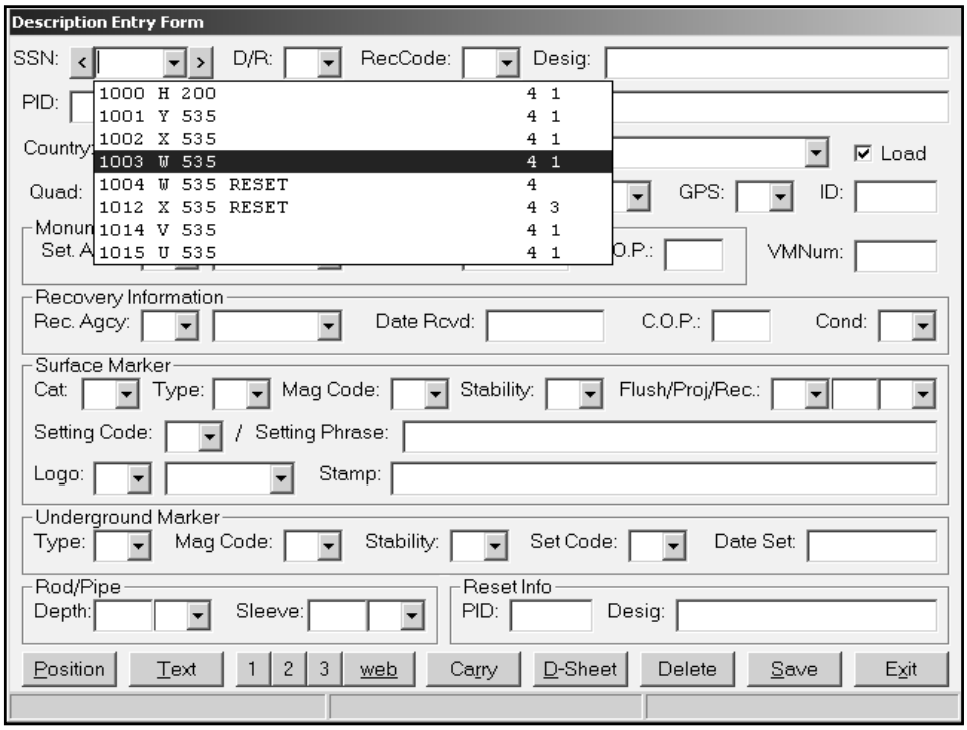

WINDESC - C:\Sample Level Project\Descriptions\L12345.des
File Edit View Check Tools WebTools Help
Project Data
Descriptive Data
Change Load Status
Delete Descriptions
Renumber SSN
RECORD DESIGNATION OLD SSN NEW SSN
2 H 200 0001 1000
3 U 535 0002 1006
4 V 535 0003 1005
5 W 535 0004 1003
6 X 535 RESET 0005 1002
7 Y 535 0006 1001
Print
Okay
CSV
Cancel

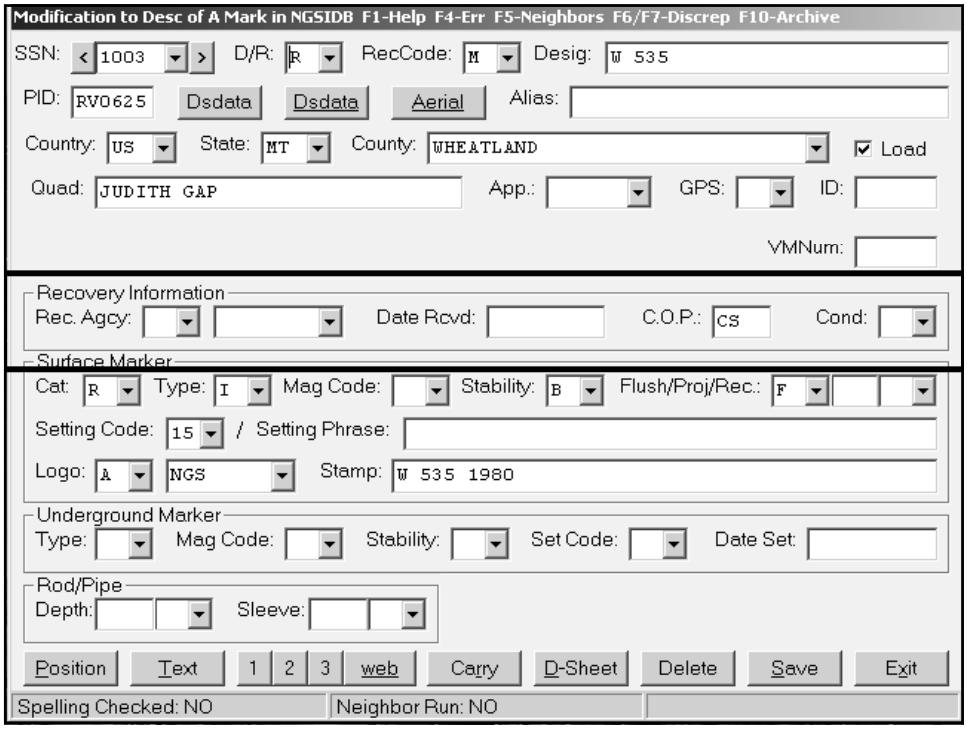

WINDESC - C:\Sample Level Project\Descriptions\L12345.des
File Edit View Check Tools WebTools Help
Project Data
Descriptive Data
Change Load Status
Delete Descriptions
Delete All Historical Text
Format All Descriptions Ctrl+F
Get Quad Names
Insert Approx Locations
Renumber
Search & Replace
Spell Check All Descriptions
Towns.txt File
WinDesc
6 marks renumbered.
OK

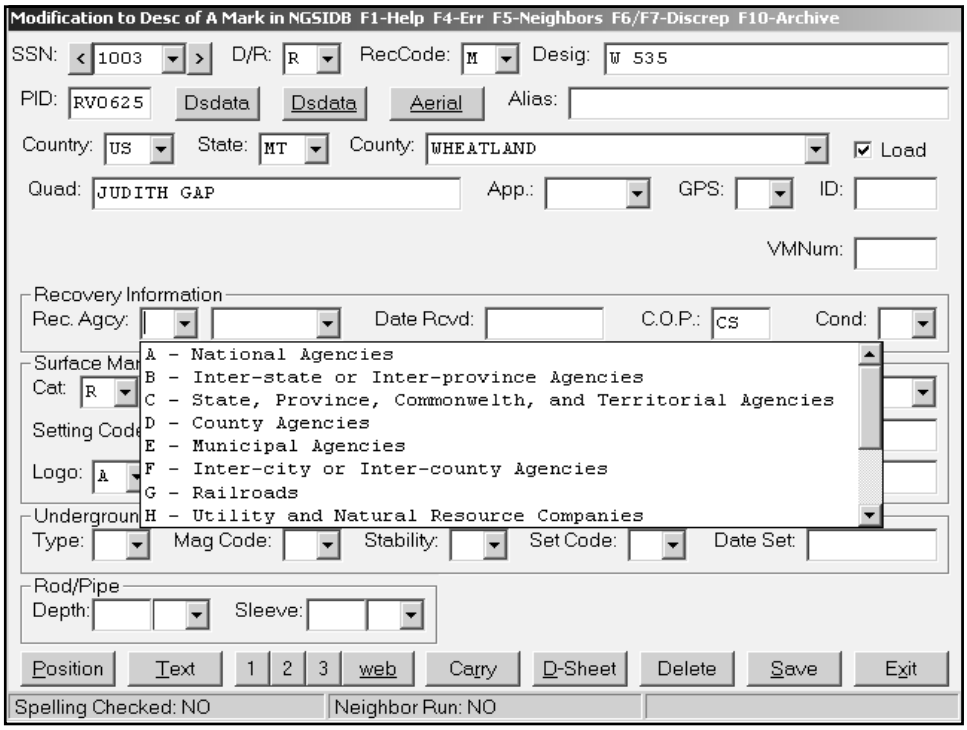

WINDESC - C:\Sample Level Project\Descriptions\L12345.des
File
Edit
View
Check
Tools
WebTools
Help
Discrepancy File
Dsdata File
Error File
Index File
Mark Listing
Neighbor File
Record Index
Text (.txt) File

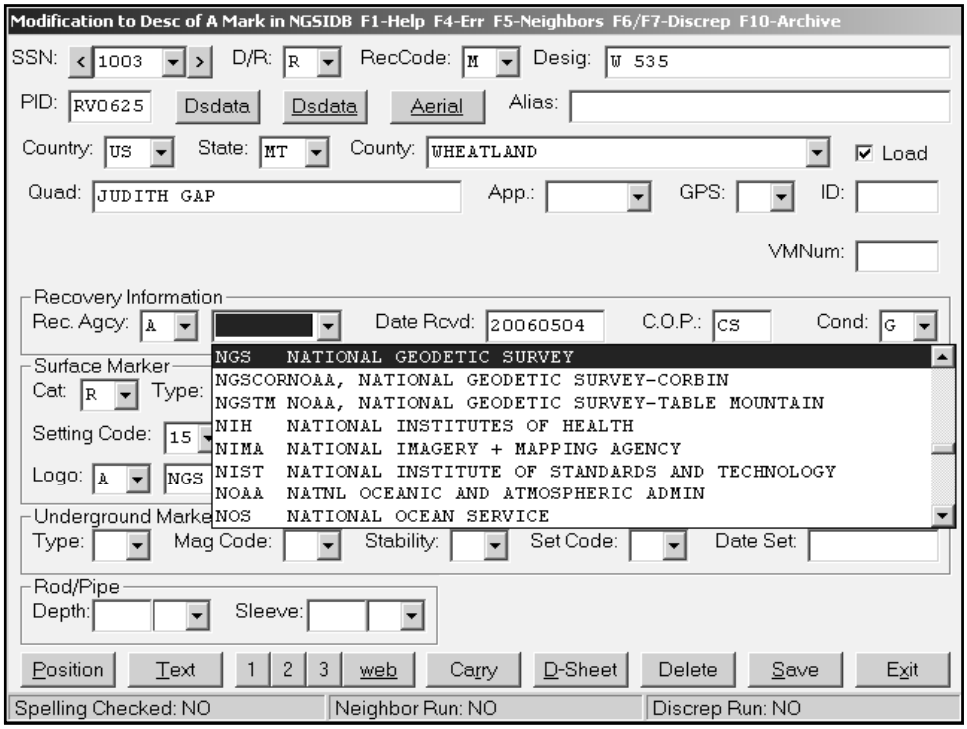

C:\ACSM2010\Description2\ASCM2010.lnx
File
MARK LISTING FOR: ASCM2010 22 March 2010
SSN PID DESIGNATION LATITUDE LONGITUDE ELEVATION R C SC B RPT DATE COP D D C D C S T L R C D
1000 RV0588 H 200 N463703 W1094558 1438.90700 R M 46 B 4 1 N N N Y
1001 RV0627 Y 535 N463751 W1094558 1449.18400 R M 49 B 4 1 N N N Y
1002 RV0773 X 535 RESET N463820 W1094550 1416.92000 R M 07 C 4 3 N N N Y
1003 RV0625 W 535 N463848 W1094541 1401.10600 R M 15 B 4 1 N N N Y
1005 RV0624 V 535 N463935 W1094527 1413.77300 R M 49 B 4 1 N N N Y
1006 RV0623 U 535 N464026 W1094509 1398.97900 R M 38 B 4 1 N N N Y
New marks set: 0
Recovered marks: 6
Total marks: 6
Marks to load: 6
Note: SSNs are consistent with SSNs assigned in leveling data

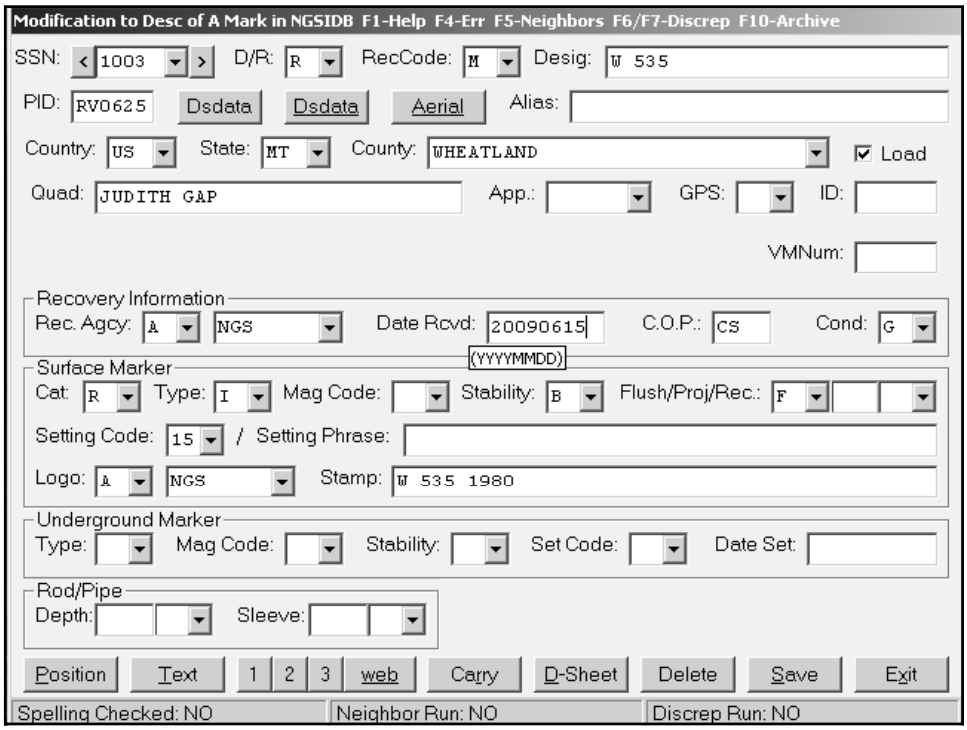

WINDESC - C:\Sample Level Project\Descriptions\L12345.des
File
Edit
View
Check
Tools
WebTools
Help
Project Data
Descriptive Data
Change Load Status
Delete Descriptions
Delete All Historical Text
Format All Descriptions Ctrl+F
Get Quad Names
Insert Approx Locations
Renumber
Search & Replace
Spell Check All Descriptions Ctrl+L
Towns.txt File

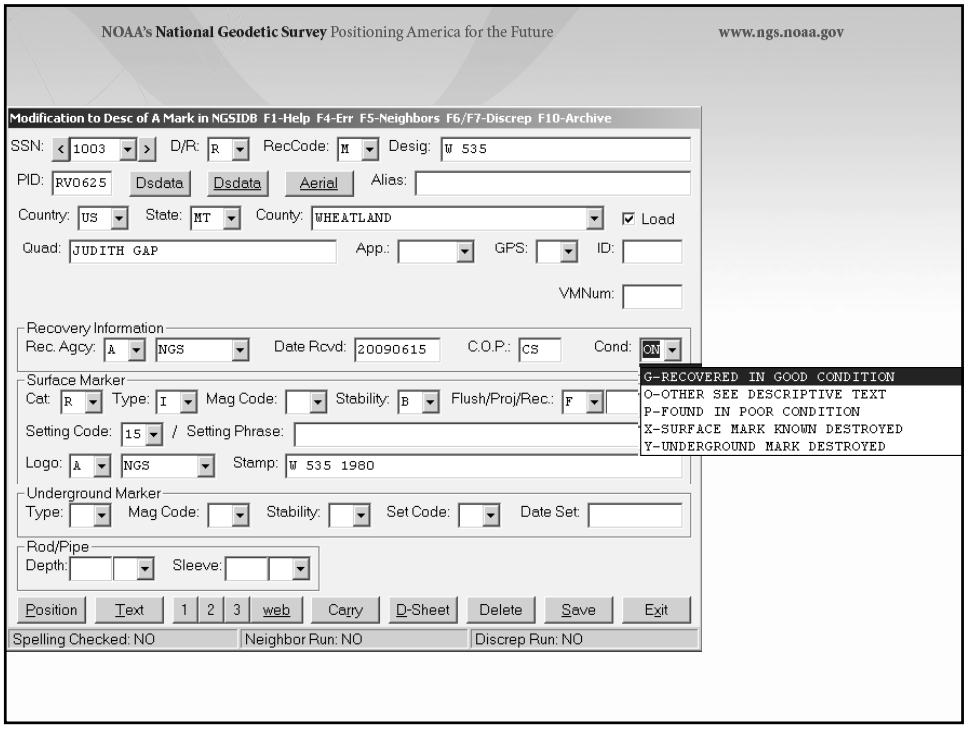

Description Entry Form
SSN:
D/R:
RecCode:
Desig:
PID:
1000 H 200 4 1
1001 Y 535 4 1
1002 X 535 4 1
1003 W 535 4 1
1004 W 535 RESET 4
1012 X 535 RESET 4 3
1014 V 535 4 1
1015 U 535 4 1
Country:
Load
Quad:
GPS:
ID:
VMNum:
Recovery Information
Rec. Agcy:
Date Rcvd:
C.O.P.:
Cond:
Surface Marker
Cat:
Type:
Mag Code:
Stability:
Flush/Proj/Rec.:
Setting Code:
/ Setting Phrase:
Logo:
Stamp:
Underground Marker
Type:
Mag Code:
Stability:
Set Code:
Date Set:
Rod/Pipe
Depth:
Sleeve:
Reset Info
PID:
Desig:
Position
Text
1
2
3
web
Carry
D-Sheet
Delete
Save
Exit

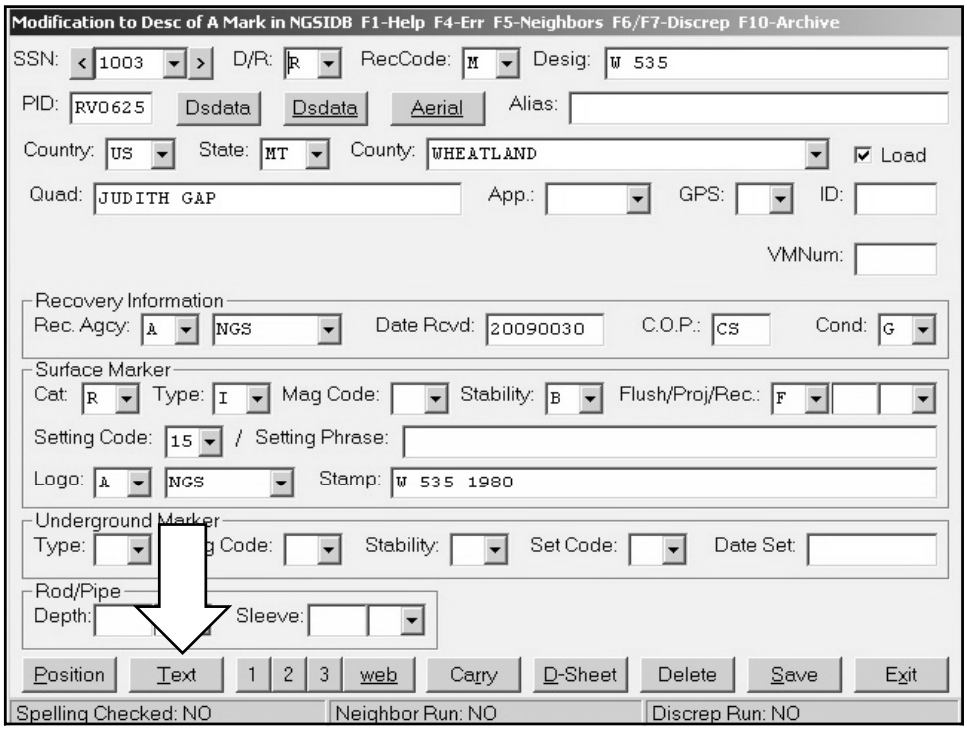

Modification to Desc of A Mark in NGSIDB F1-Help F4-Err F5-Neighbors F6/F7-Discrep F10-Archive
SSN: 1003 D/R: R RecCode: M Desig: W 535
PID: RV0625 Dsdata Dsdata Aerial Alias:
Country: US State: MT County: WHEATLAND Load
Quad: JUDITH GAP App.: GPS: ID:
VMNum:
Recovery Information
Rec. Agcy: Date Rcvd: C.O.P.: CS Cond:
Surface Marker
Cat: R Type: I Mag Code: Stability: B Flush/Proj/Rec.: F
Setting Code: 15 / Setting Phrase:
Logo: A NGS Stamp: W 535 1980
Underground Marker
Type: Mag Code: Stability: Set Code: Date Set:
Rod/Pipe
Depth: Sleeve:
Position Text 1 2 3 web Carry D-Sheet Delete Save Exit
Spelling Checked: NO
Neighbor Run: NO

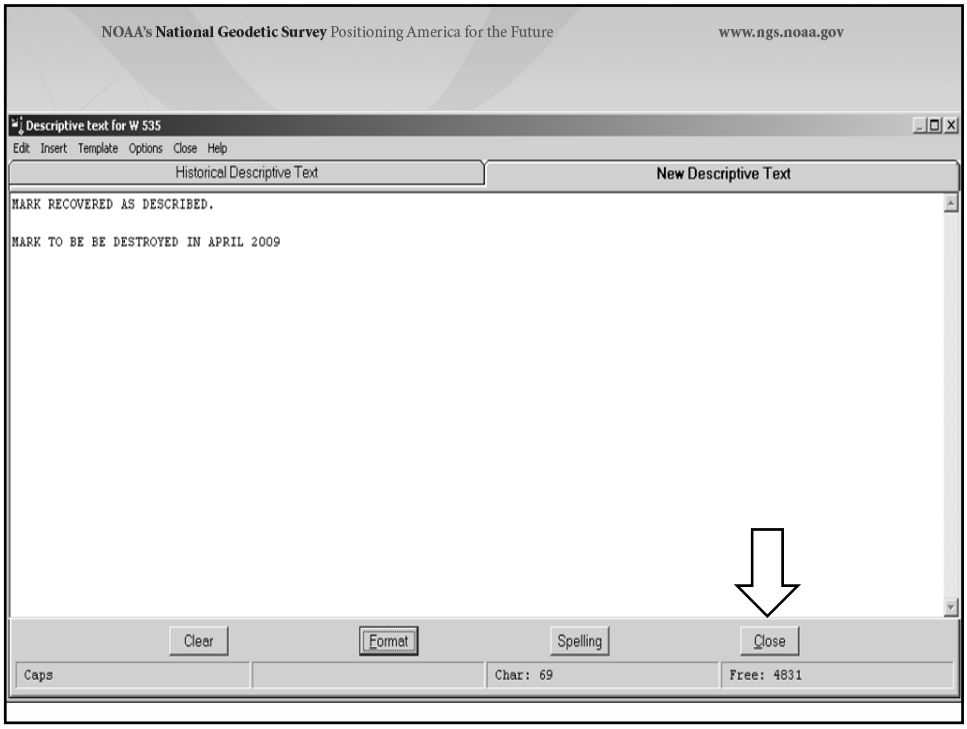

Modification to Desc of A Mark in NGSIDB F1-Help F4-Err F5-Neighbors F6/F7-Discrep F10-Archive
SSN: 1003 D/R: R RecCode: M Desig: W 535
PID: RV0625 Dsdata Dsdata Aerial Alias:
Country: US State: MT County: WHEATLAND Load
Quad: JUDITH GAP App.: GPS: ID:
VMNum:
Recovery Information
Rec. Agcy: Date Rcvd: C.O.P.: CS Cond:
A - National Agencies
B - Inter-state or Inter-province Agencies
C - State, Province, Commonwealth, and Territorial Agencies
D - County Agencies
E - Municipal Agencies
F - Inter-city or Inter-county Agencies
G - Railroads
H - Utility and Natural Resource Companies
Type: Mag Code: Stability: Set Code: Date Set:
Rod/Pipe
Depth: Sleeve:
Position Text 1 2 3 web Carry D-Sheet Delete Save Exit
Spelling Checked: NO
Neighbor Run: NO

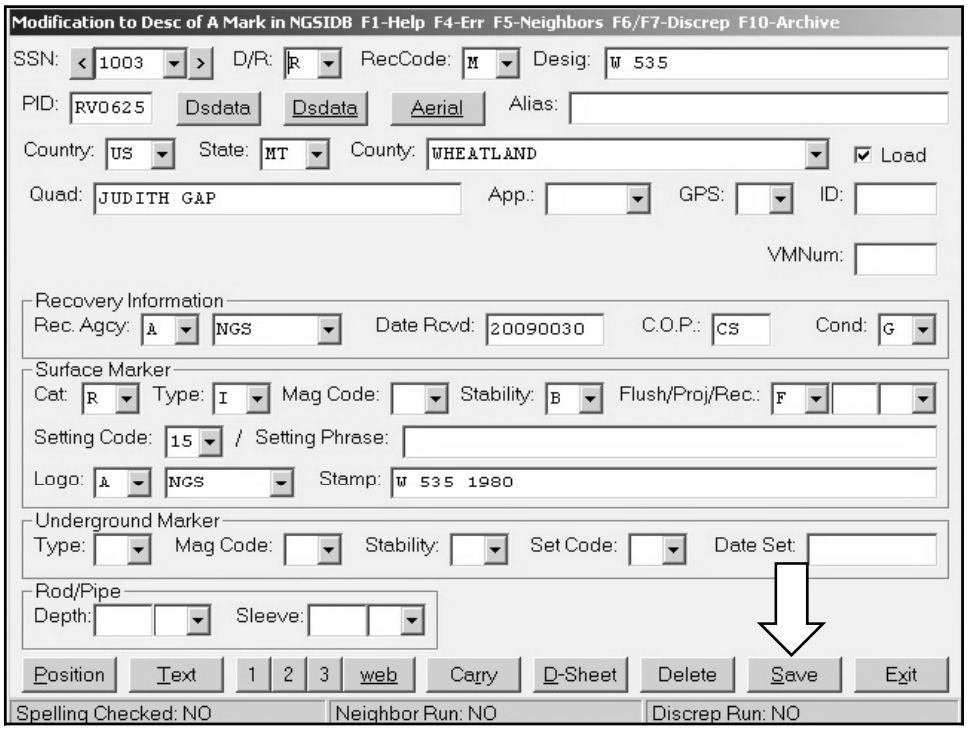

Modification to Desc of A Mark in NGSIDB F1-Help F4-Err F5-Neighbors F6/F7-Discrep F10-Archive
SSN: 1003 D/R: R RecCode: M Desig: W 535
PID: RV0625 Dsdata Dsdata Aerial Alias:
Country: US State: MT County: WHEATLAND Load
Quad: JUDITH GAP App.: GPS: ID:
VMNum:
Recovery Information
Rec. Agcy: A Date Rcvd: 20060504 C.O.P.: CS Cond: G
NGS NATIONAL GEODETIC SURVEY
NGSCORNOAA, NATIONAL GEODETIC SURVEY-CORBIN
NGSTM NOAA, NATIONAL GEODETIC SURVEY-TABLE MOUNTAIN
NIH NATIONAL INSTITUTES OF HEALTH
NIMA NATIONAL IMAGERY + MAPPING AGENCY
NIST NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY
NOAA NATNL OCEANIC AND ATMOSPHERIC ADMIN
NOS NATIONAL OCEAN SERVICE
Surface Marker
Cat: R Type:
Setting Code: 15
Logo: A NGS
Underground Marke
Type: Mag Code: Stability: Set Code: Date Set:
Rod/Pipe
Depth: Sleeve:
Position Text 1 2 3 web Carry D-Sheet Delete Save Exit
Spelling Checked: NO Neighbor Run: NO Discrep Run: NO

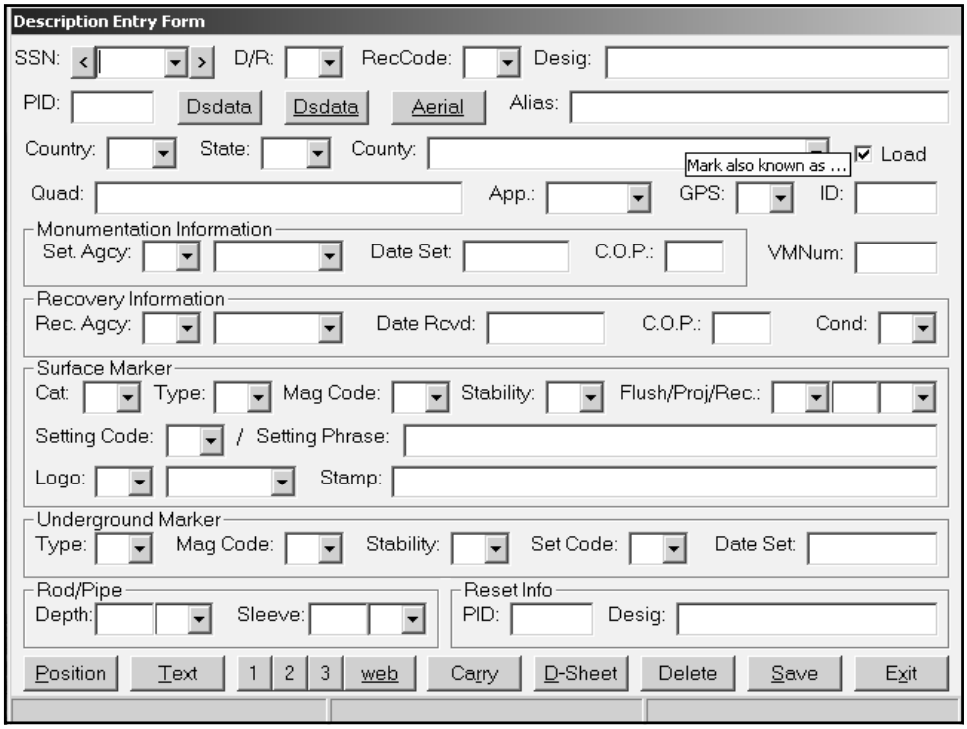

Modification to Desc of A Mark in NGSIDB F1-Help F4-Err F5-Neighbors F6/F7-Discrep F10-Archive
SSN: 1003 D/R: R RecCode: M Desig: W 535
PID: RV0625 Dsdata Dsdata Aerial Alias:
Country: US State: MT County: WHEATLAND Load
Quad: JUDITH GAP App.: GPS: ID:
VMNum:
Recovery Information
Rec. Agcy: A NGS Date Rcvd: 20090615 C.O.P.: CS Cond: G
(YYYYMMDD)
Surface Marker
Cat: R Type: I Mag Code: Stability: B Flush/Proj/Rec.: F
Setting Code: 15 / Setting Phrase:
Logo: A NGS Stamp: W 535 1980
Underground Marker
Type: Mag Code: Stability: Set Code: Date Set:
Rod/Pipe
Depth: Sleeve:
Position Text 1 2 3 web Carry D-Sheet Delete Save Exit
Spelling Checked: NO Neighbor Run: NO Discrep Run: NO

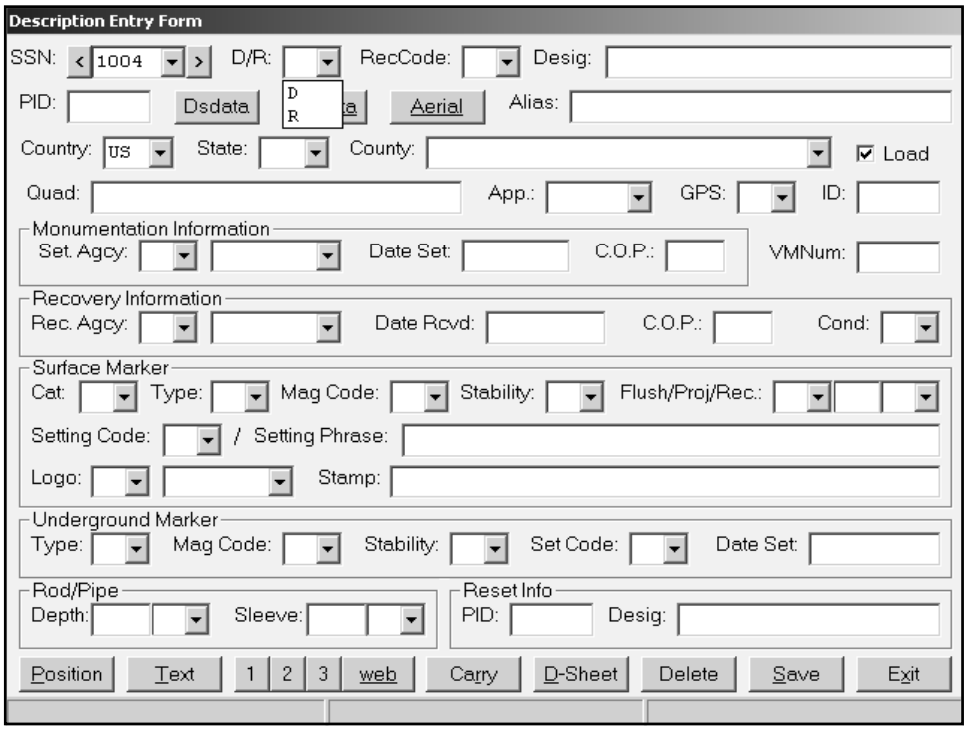

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www.ngs.noaa.gov
Modification to Desc of A Mark in NGSIDB F1-Help F4-Err F5-Neighbors F6/F7-Discrep F10-Archive
SSN: 1003 D/R: R RecCode: M Desig: W 535
PID: RV0625 Dsdata Dsdata Aerial Alias:
Country: US State: MT County: WHEATLAND Load
Quad: JUDITH GAP App.: GPS: ID:
VMNum:
Recovery Information
Rec. Agcy: A NGS Date Rcvd: 20090615 C.O.P.: CS Cond: ON
G-RECOVERED IN GOOD CONDITION
O-OTHER SEE DESCRIPTIVE TEXT
P-FOUND IN POOR CONDITION
X-SURFACE MARK KNOWN DESTROYED
Y-UNDERGROUND MARK DESTROYED
Surface Marker
Cat: R Type: I Mag Code: Stability: B Flush/Proj/Rec.: F
Setting Code: 15 / Setting Phrase:
Logo: A NGS Stamp: W 535 1980
Underground Marker
Type: Mag Code: Stability: Set Code: Date Set:
Rod/Pipe
Depth: Sleeve:
Position Text 1 2 3 web Carry D-Sheet Delete Save Exit
Spelling Checked: NO
Neighbor Run: NO
Discrep Run: NO

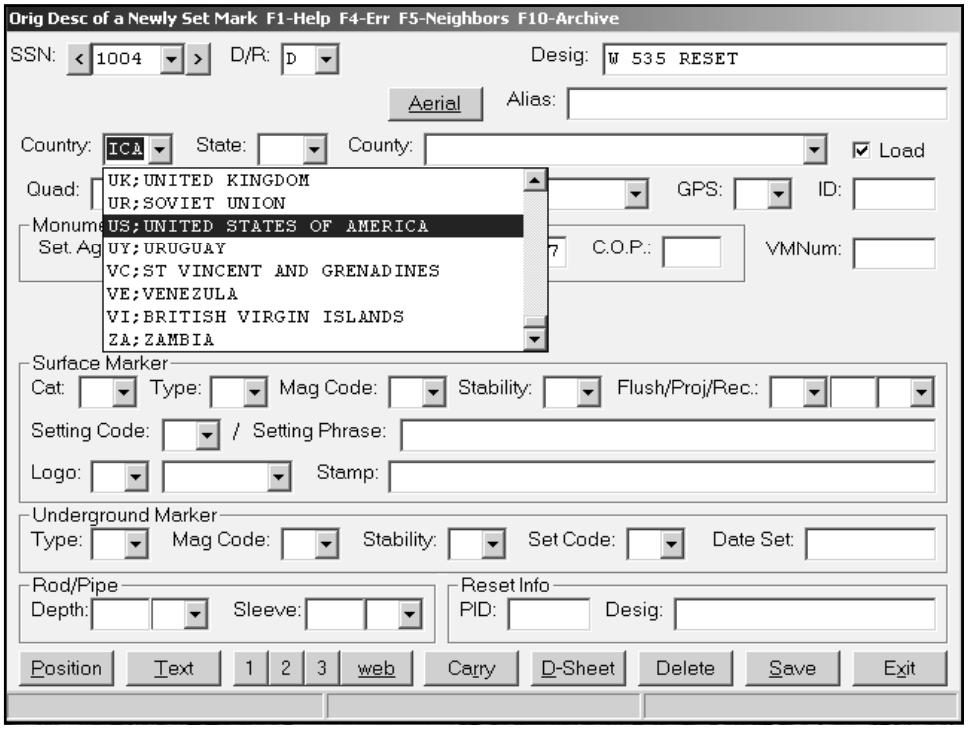

Modification to Desc of A Mark in NGSIDB F1-Help F4-Err F5-Neighbors F6/F7-Discrep F10-Archive
SSN: 1003 D/R: R RecCode: M Desig: W 535
PID: RV0625 Dsdata Dsdata Aerial Alias:
Country: US State: MT County: WHEATLAND Load
Quad: JUDITH GAP App.: GPS: ID:
VMNum:
Recovery Information
Rec. Agcy: A NGS Date Rcvd: 20090030 C.O.P.: CS Cond: G
Surface Marker
Cat: R Type: I Mag Code: Stability: B Flush/Proj/Rec.: F
Setting Code: 15 / Setting Phrase:
Logo: A NGS Stamp: W 535 1980
Underground Marker
Type: Code: Stability: Set Code: Date Set:
Rod/Pipe
Depth: Sleeve:
Position Text 1 2 3 web Carry D-Sheet Delete Save Exit
Spelling Checked: NO
Neighbor Run: NO
Discrep Run: NO

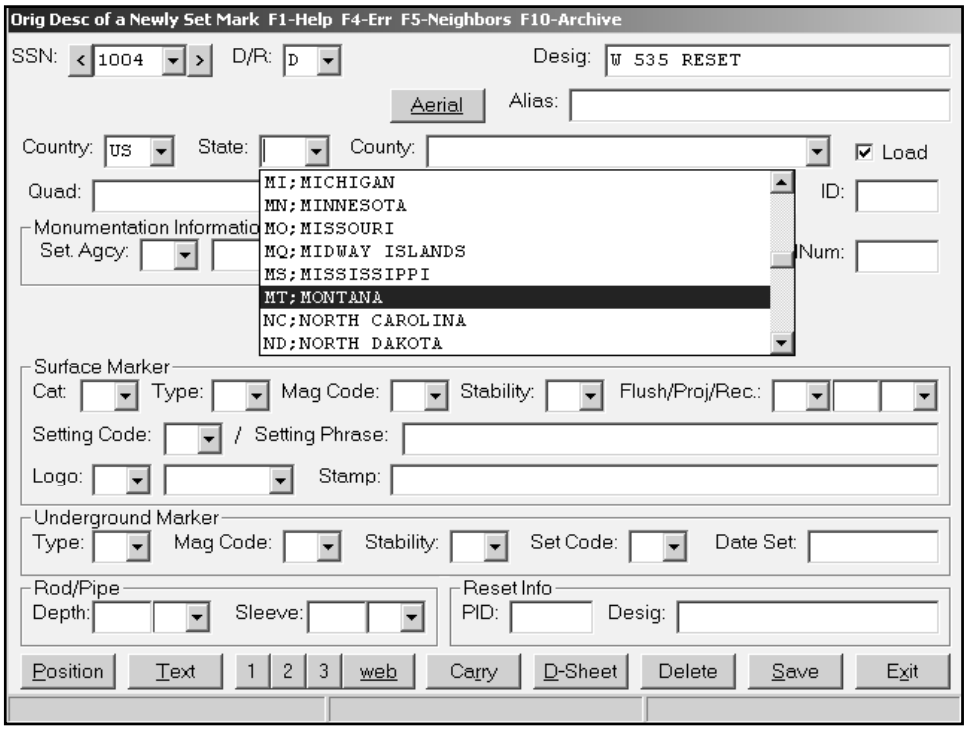

NOAA's National Geodetic Survey Positioning America for the Future
www.ngs.noaa.gov
Descriptive text for W 535
Edit Insert Template Options Close Help
Historical Descriptive Text
New Descriptive Text
MARK RECOVERED AS DESCRIBED.
MARK TO BE BE DESTROYED IN APRIL 2009
Clear
Format
Spelling
Close
Caps
Char: 69
Free: 4831

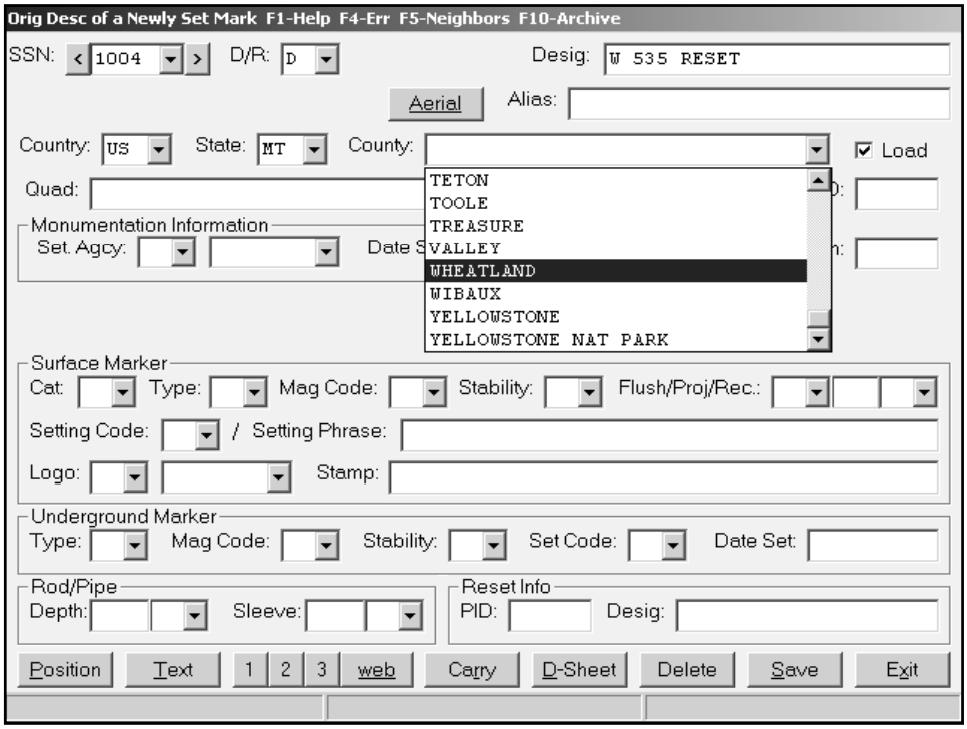

Modification to Desc of A Mark in NGSIDB F1-Help F4-Err F5-Neighbors F6/F7-Discrep F10-Archive
SSN: 1003 D/R: R RecCode: M Desig: W 535
PID: RV0625 Dsdata Dsdata Aerial Alias:
Country: US State: MT County: WHEATLAND Load
Quad: JUDITH GAP App.: GPS: ID:
VMNum:
Recovery Information
Rec. Agcy: A NGS Date Rcvd: 20090030 C.O.P.: CS Cond: G
Surface Marker
Cat: R Type: I Mag Code: Stability: B Flush/Proj/Rec.: F
Setting Code: 15 / Setting Phrase:
Logo: A NGS Stamp: W 535 1980
Underground Marker
Type: Mag Code: Stability: Set Code: Date Set:
Rod/Pipe
Depth: Sleeve:
Position Text 1 2 3 web Carry D-Sheet Delete Save Exit
Spelling Checked: NO
Neighbor Run: NO
Discrep Run: NO

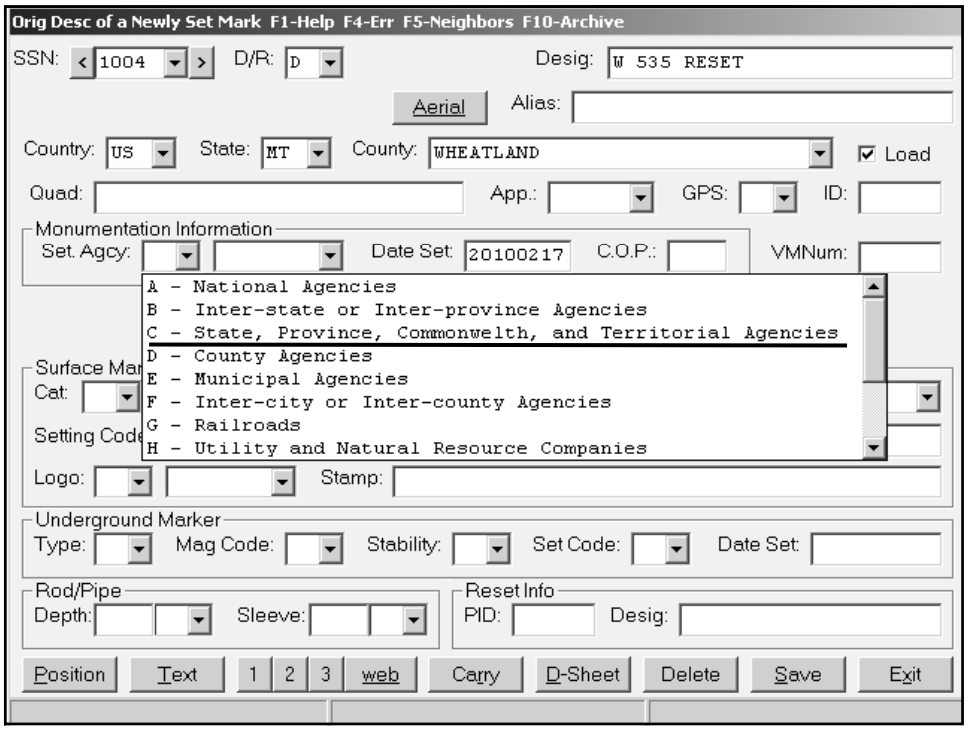

Description Entry Form
SSN:
D/R:
RecCode:
Desig:
PID:
Dsdata
Dsdata
Aerial
Alias:
Country:
State:
County:
Mark also known as ...
Load
Quad:
App.:
GPS:
ID:
Monumentation Information
Set. Agcy:
Date Set:
C.O.P.:
VMNum:
Recovery Information
Rec. Agcy:
Date Rcvd:
C.O.P.:
Cond:
Surface Marker
Cat:
Type:
Mag Code:
Stability:
Flush/Proj/Rec.:
Setting Code:
/ Setting Phrase:
Logo:
Stamp:
Underground Marker
Type:
Mag Code:
Stability:
Set Code:
Date Set:
Rod/Pipe
Depth:
Sleeve:
Reset Info
PID:
Desig:
Position
Text
1
2
3
web
Carry
D-Sheet
Delete
Save
Exit

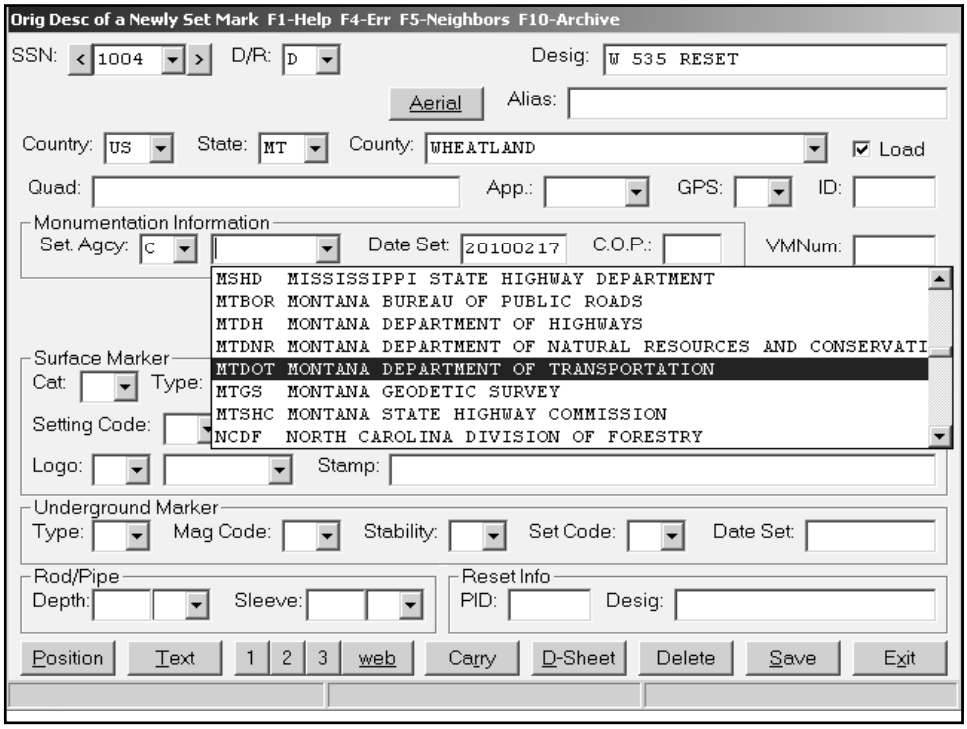

Description Entry Form
SSN:
1004
D/R:
RecCode:
Desig:
PID:
Dsdata
D
R
Aerial
Alias:
Country:
US
State:
County:
Load
Quad:
App.:
GPS:
ID:
Monumentation Information
Set. Agcy:
Date Set:
C.O.P.:
VMNum:
Recovery Information
Rec. Agcy:
Date Rcvd:
C.O.P.:
Cond:
Surface Marker
Cat:
Type:
Mag Code:
Stability:
Flush/Proj/Rec.:
Setting Code:
/ Setting Phrase:
Logo:
Stamp:
Underground Marker
Type:
Mag Code:
Stability:
Set Code:
Date Set:
Rod/Pipe
Depth:
Sleeve:
Reset Info
PID:
Desig:
Position
Text
1
2
3
web
Carry
D-Sheet
Delete
Save
Exit

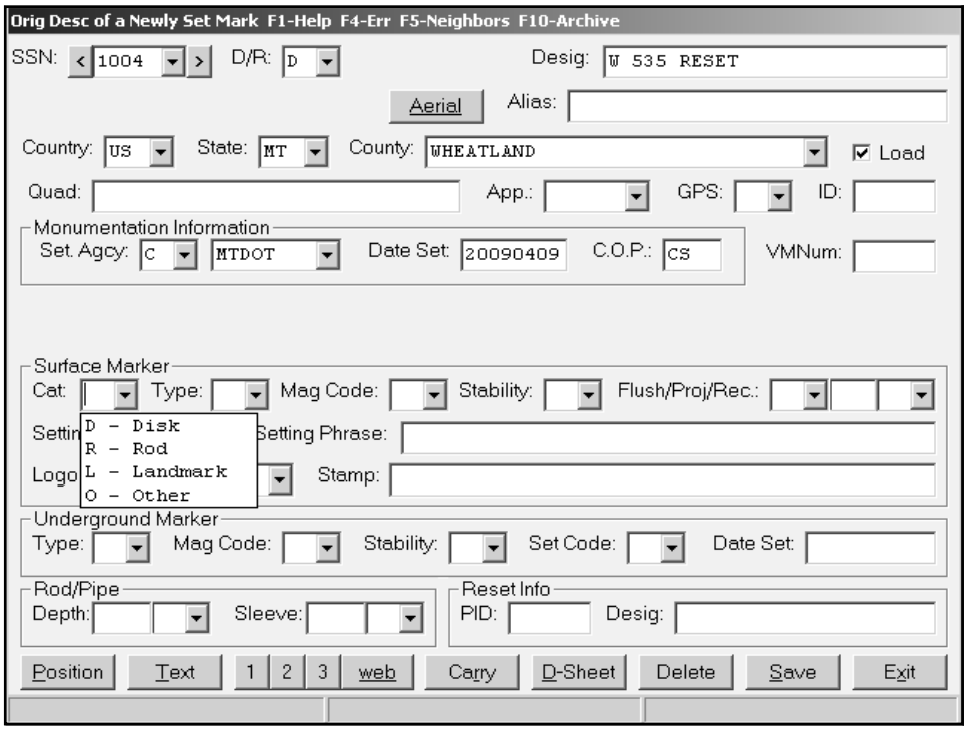

Orig Desc of a Newly Set Mark F1-Help F4-Err F5-Neighbors F10-Archive
SSN: 1004 D/R: D Desig: W 535 RESET
Aerial Alias:
Country: ICA State: County: Load
Quad: GPS: ID:
Monume
Set. Ag
C.O.P.: VMNum:
UK;UNITED KINGDOM
UR;SOVIET UNION
US;UNITED STATES OF AMERICA
UY;URUGUAY
VC;ST VINCENT AND GRENADINES
VE;VENEZULA
VI;BRITISH VIRGIN ISLANDS
ZA;ZAMBIA
Surface Marker
Cat: Type: Mag Code: Stability: Flush/Proj/Rec.:
Setting Code: / Setting Phrase:
Logo: Stamp:
Underground Marker
Type: Mag Code: Stability: Set Code: Date Set:
Rod/Pipe
Depth: Sleeve:
Reset Info
PID: Desig:
Position Text 1 2 3 web Carry D-Sheet Delete Save Exit

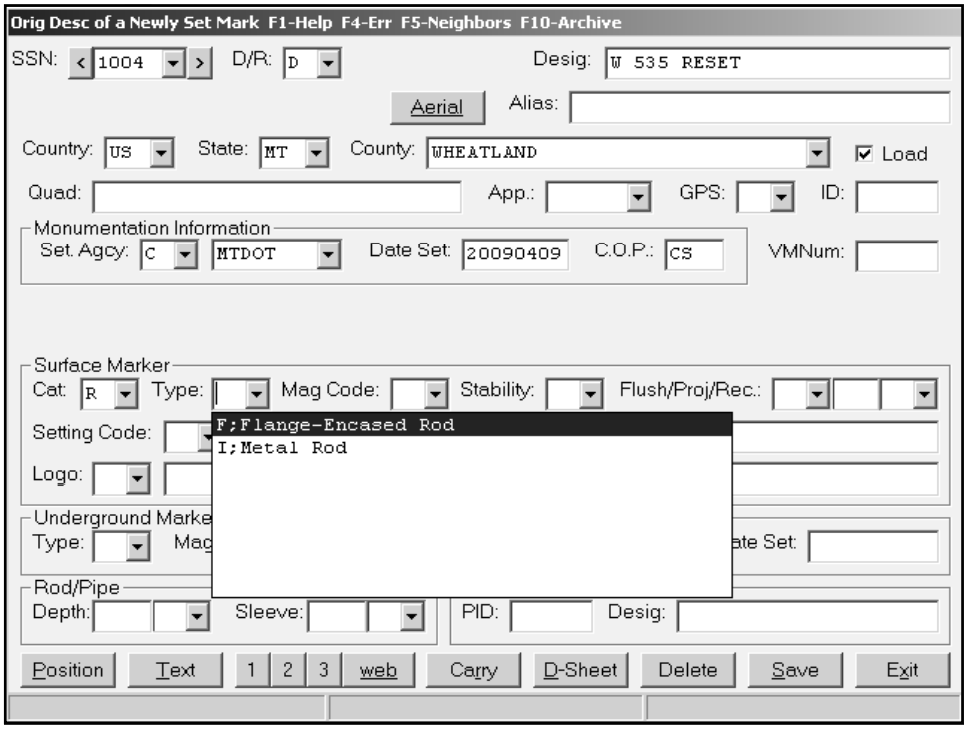

Orig Desc of a Newly Set Mark F1-Help F4-Err F5-Neighbors F10-Archive
SSN: 1004 D/R: D Desig: W 535 RESET
Aerial Alias:
Country: US State: County: Load
Quad: ID:
Monumentation Informatio
Set. Agcy: Num:
MI;MICHIGAN
MN;MINNESOTA
MO;MISSOURI
MQ;MIDWAY ISLANDS
MS;MISSISSIPPI
MT;MONTANA
NC;NORTH CAROLINA
ND;NORTH DAKOTA
Surface Marker
Cat: Type: Mag Code: Stability: Flush/Proj/Rec.:
Setting Code: / Setting Phrase:
Logo: Stamp:
Underground Marker
Type: Mag Code: Stability: Set Code: Date Set:
Rod/Pipe
Depth: Sleeve:
Reset Info
PID: Desig:
Position Text 1 2 3 web Carry D-Sheet Delete Save Exit

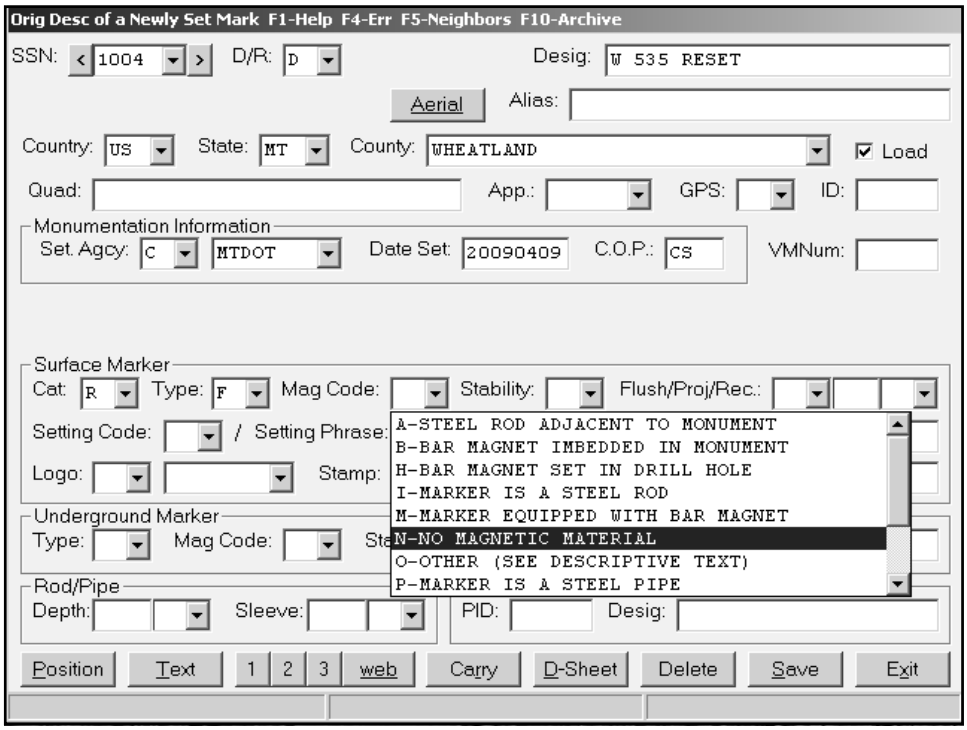

Orig Desc of a Newly Set Mark F1-Help F4-Err F5-Neighbors F10-Archive
SSN: 1004 D/R: D Desig: W 535 RESET
Aerial Alias:
Country: US State: MT County:
Load
Quad:
TETON
TOOLE
TREASURE
VALLEY
WHEATLAND
WIBAUX
YELLOWSTONE
YELLOWSTONE NAT PARK
Monumentation Information
Set. Agcy:
Surface Marker
Cat: Type: Mag Code: Stability: Flush/Proj/Rec.:
Setting Code: / Setting Phrase:
Logo: Stamp:
Underground Marker
Type: Mag Code: Stability: Set Code: Date Set:
Rod/Pipe
Depth: Sleeve:
Reset Info
PID: Desig:
Position Text 1 2 3 web Carry D-Sheet Delete Save Exit

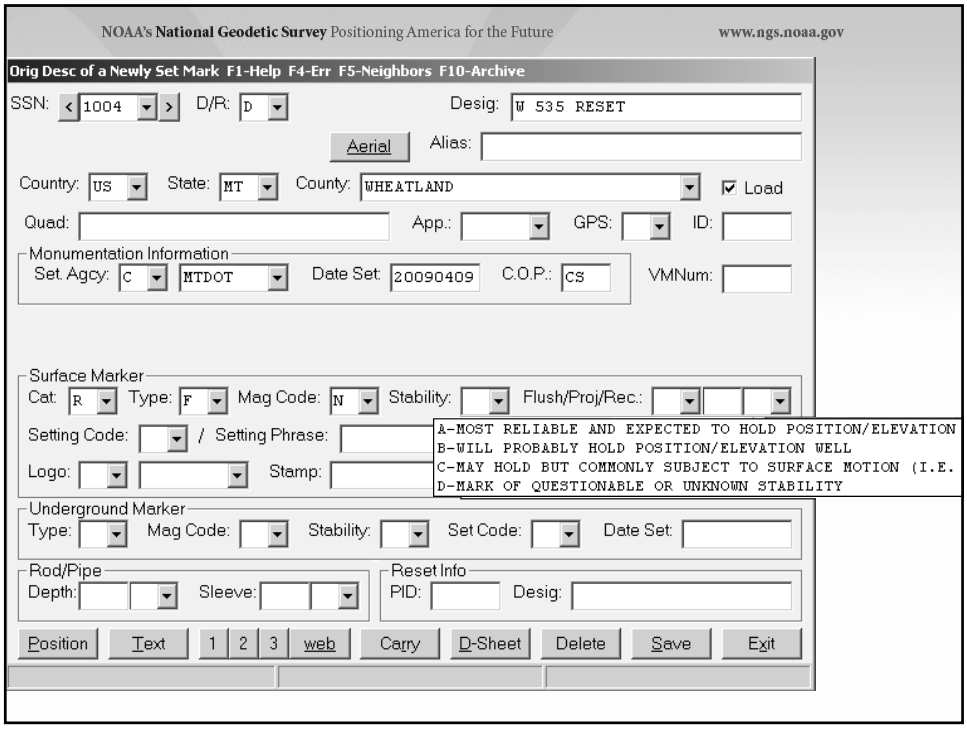

Orig Desc of a Newly Set Mark F1-Help F4-Err F5-Neighbors F10-Archive
SSN: 1004 D/R: D Desig: W 535 RESET
Aerial Alias:
Country: US State: MT County: WHEATLAND
Load
Quad:
App.: GPS: ID:
Monumentation Information
Set. Agcy:
Date Set: 20100217 C.O.P.: VMNum:
A - National Agencies
B - Inter-state or Inter-province Agencies
C - State, Province, Commonwelth, and Territorial Agencies
D - County Agencies
E - Municipal Agencies
F - Inter-city or Inter-county Agencies
G - Railroads
H - Utility and Natural Resource Companies
Cat:
Logo: Stamp:
Underground Marker
Type: Mag Code: Stability: Set Code: Date Set:
Rod/Pipe
Depth: Sleeve:
Reset Info
PID: Desig:
Position Text 1 2 3 web Carry D-Sheet Delete Save Exit

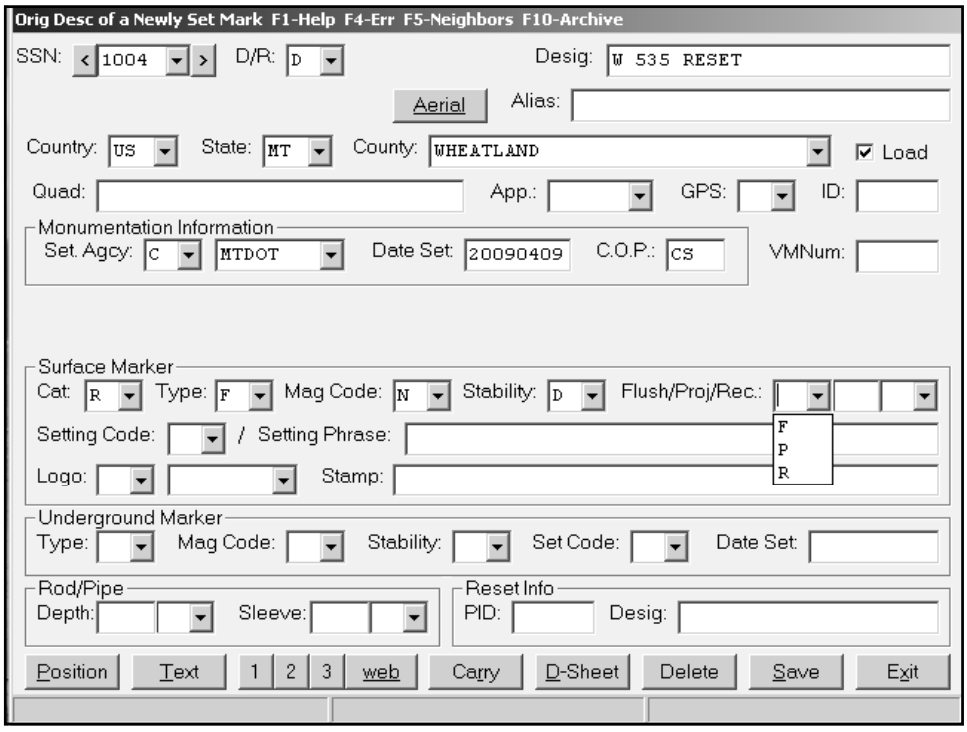

Orig Desc of a Newly Set Mark F1-Help F4-Err F5-Neighbors F10-Archive
SSN: 1004 D/R: D Desig: W 535 RESET
Aerial Alias:
Country: US State: MT County: WHEATLAND Load
Quad: App.: GPS: ID:
Monumentation Information
Set. Agcy: C Date Set: 20100217 C.O.P.: VMNum:
MSHD MISSISSIPPI STATE HIGHWAY DEPARTMENT
MTBOR MONTANA BUREAU OF PUBLIC ROADS
MTDH MONTANA DEPARTMENT OF HIGHWAYS
MTDNR MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATI
MTDOT MONTANA DEPARTMENT OF TRANSPORTATION
MTGS MONTANA GEODETIC SURVEY
MTSHC MONTANA STATE HIGHWAY COMMISSION
NCDF NORTH CAROLINA DIVISION OF FORESTRY
Surface Marker
Cat: Type:
Setting Code:
Logo: Stamp:
Underground Marker
Type: Mag Code: Stability: Set Code: Date Set:
Rod/Pipe
Depth: Sleeve:
Reset Info
PID: Desig:
Position Text 1 2 3 web Carry D-Sheet Delete Save Exit

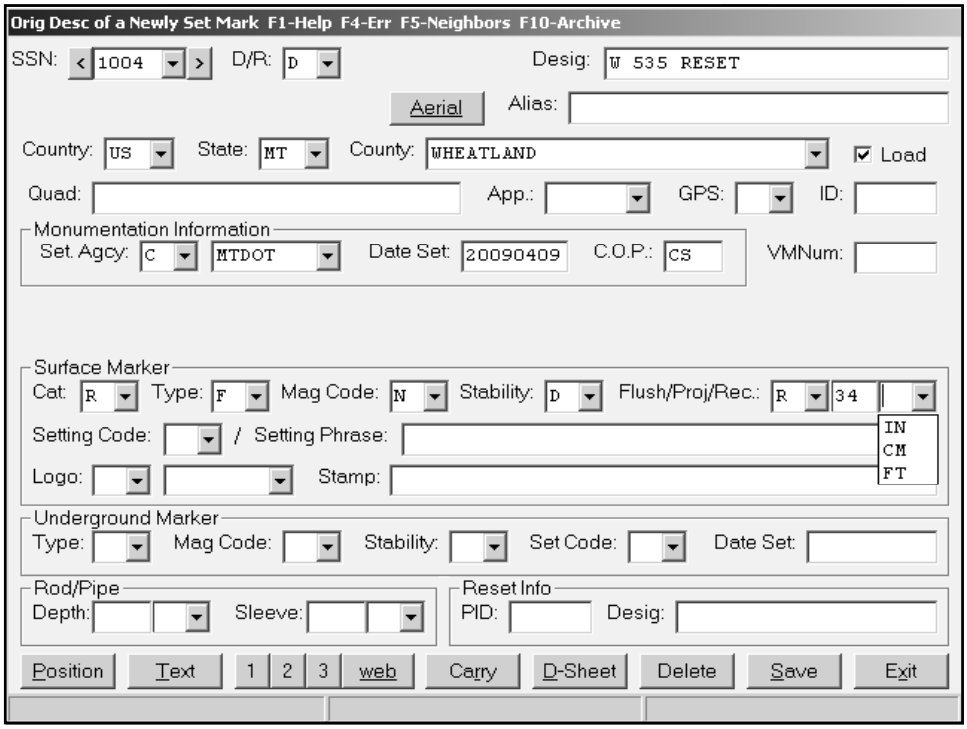

Orig Desc of a Newly Set Mark F1-Help F4-Err F5-Neighbors F10-Archive
SSN: 1004 D/R: D Desig: W 535 RESET
Aerial Alias:
Country: US State: MT County: WHEATLAND Load
Quad: App.: GPS: ID:
Monumentation Information
Set. Agcy: C MTDOT Date Set: 20090409 C.O.P.: CS VMNum:
Surface Marker
Cat: Type: Mag Code: Stability: Flush/Proj/Rec.:
D - Disk
R - Rod
L - Landmark
O - Other
Setting Phrase:
Stamp:
Underground Marker
Type: Mag Code: Stability: Set Code: Date Set:
Rod/Pipe
Depth: Sleeve:
Reset Info
PID: Desig:
Position Text 1 2 3 web Carry D-Sheet Delete Save Exit

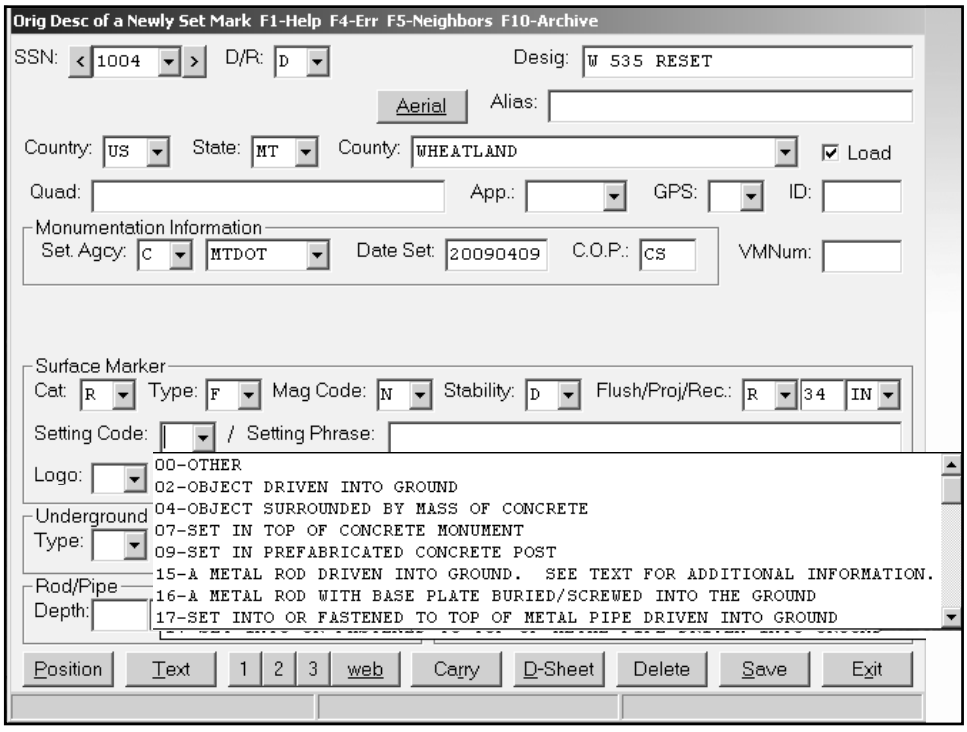

Orig Desc of a Newly Set Mark F1-Help F4-Err F5-Neighbors F10-Archive
SSN: 1004 D/R: D Desig: W 535 RESET
Aerial Alias:
Country: US State: MT County: WHEATLAND Load
Quad: App.: GPS: ID:
Monumentation Information
Set. Agcy: C MTDOT Date Set: 20090409 C.O.P.: CS VMNum:
Surface Marker
Cat: R Type: Mag Code: Stability: Flush/Proj/Rec.:
Setting Code:
Logo:
F;Flange-Encased Rod
I;Metal Rod
Underground Marke
Type: Mag
ate Set:
Rod/Pipe
Depth: Sleeve: PID: Desig:
Position Text 1 2 3 web Carry D-Sheet Delete Save Exit

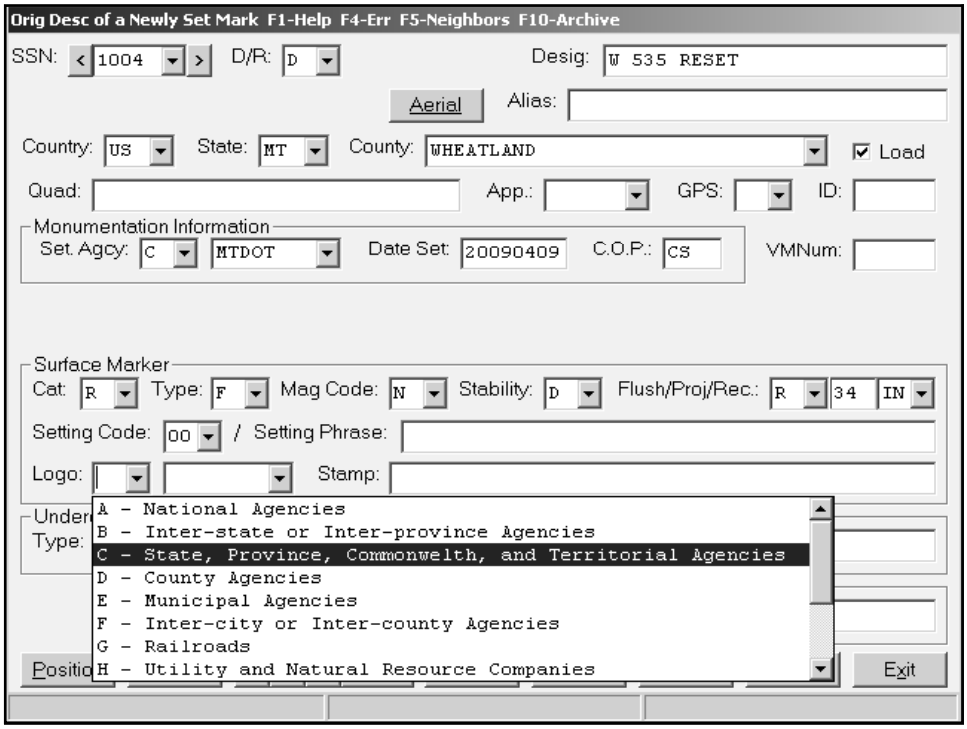

Orig Desc of a Newly Set Mark F1-Help F4-Err F5-Neighbors F10-Archive
SSN: 1004 D/R: D Desig: W 535 RESET
Aerial Alias:
Country: US State: MT County: WHEATLAND Load
Quad: App.: GPS: ID:
Monumentation Information
Set. Agcy: C MTDOT Date Set: 20090409 C.O.P.: CS VMNum:
Surface Marker
Cat: R Type: F Mag Code: Stability: Flush/Proj/Rec.:
Setting Code: / Setting Phrase:
Logo: Stamp:
A-STEEL ROD ADJACENT TO MONUMENT
B-BAR MAGNET IMBEDDED IN MONUMENT
H-BAR MAGNET SET IN DRILL HOLE
I-MARKER IS A STEEL ROD
M-MARKER EQUIPPED WITH BAR MAGNET
N-NO MAGNETIC MATERIAL
O-OTHER (SEE DESCRIPTIVE TEXT)
P-MARKER IS A STEEL PIPE
Underground Marker
Type: Mag Code:
Rod/Pipe
Depth: Sleeve: PID: Desig:
Position Text 1 2 3 web Carry D-Sheet Delete Save Exit

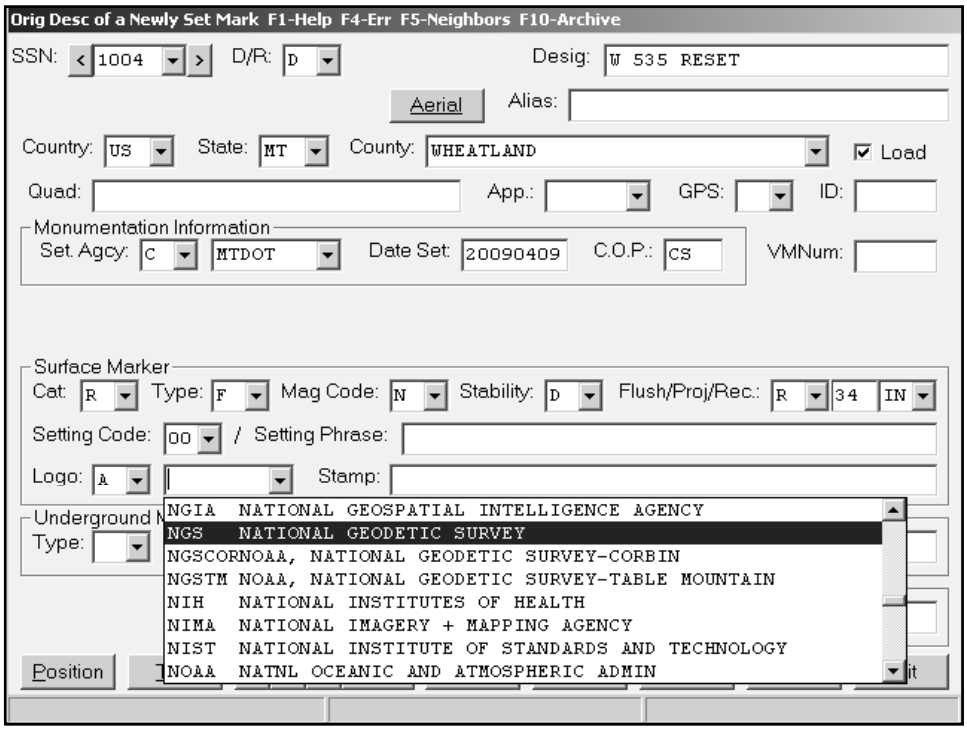

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Orig Desc of a Newly Set Mark F1-Help F4-Err F5-Neighbors F10-Archive
SSN: 1004
D/R: D
Desig: W 535 RESET
Aerial
Alias:
Country: US
State: MT
County: WHEATLAND
Load
Quad:
App.:
GPS:
ID:
Monumentation Information
Set. Agcy: C MTDOT
Date Set: 20090409
C.O.P.: CS
VMNum:
Surface Marker
Cat: R
Type: F
Mag Code: N
Stability:
Flush/Proj/Rec.:
Setting Code:
/ Setting Phrase:
Logo:
Stamp:
A-MOST RELIABLE AND EXPECTED TO HOLD POSITION/ELEVATION
B-WILL PROBABLY HOLD POSITION/ELEVATION WELL
C-MAY HOLD BUT COMMONLY SUBJECT TO SURFACE MOTION (I.E.
D-MARK OF QUESTIONABLE OR UNKNOWN STABILITY
Underground Marker
Type:
Mag Code:
Stability:
Set Code:
Date Set:
Rod/Pipe
Depth:
Sleeve:
Reset Info
PID:
Desig:
Position
Text
1
2
3
web
Carry
D-Sheet
Delete
Save
Exit

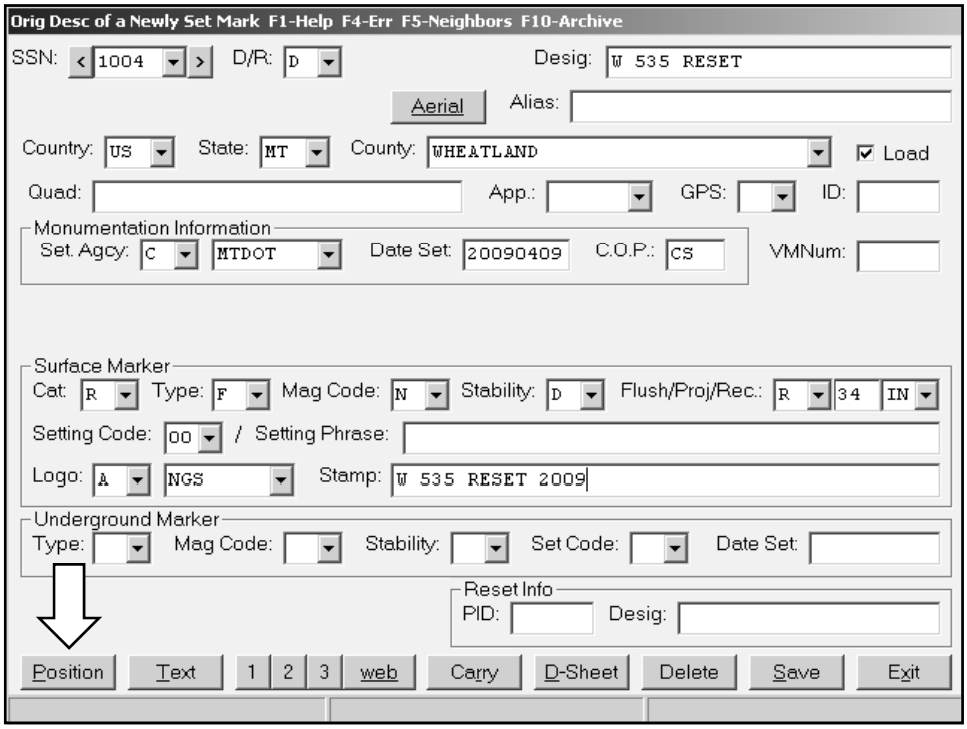

Orig Desc of a Newly Set Mark F1-Help F4-Err F5-Neighbors F10-Archive
SSN: 1004
D/R: D
Desig: W 535 RESET
Aerial
Alias:
Country: US
State: MT
County: WHEATLAND
Load
Quad:
App.:
GPS:
ID:
Monumentation Information
Set. Agcy: C MTDOT
Date Set: 20090409
C.O.P.: CS
VMNum:
Surface Marker
Cat: R
Type: F
Mag Code: N
Stability: D
Flush/Proj/Rec.:
F
P
R
Setting Code:
/ Setting Phrase:
Logo:
Stamp:
Underground Marker
Type:
Mag Code:
Stability:
Set Code:
Date Set:
Rod/Pipe
Depth:
Sleeve:
Reset Info
PID:
Desig:
Position
Text
1
2
3
web
Carry
D-Sheet
Delete
Save
Exit

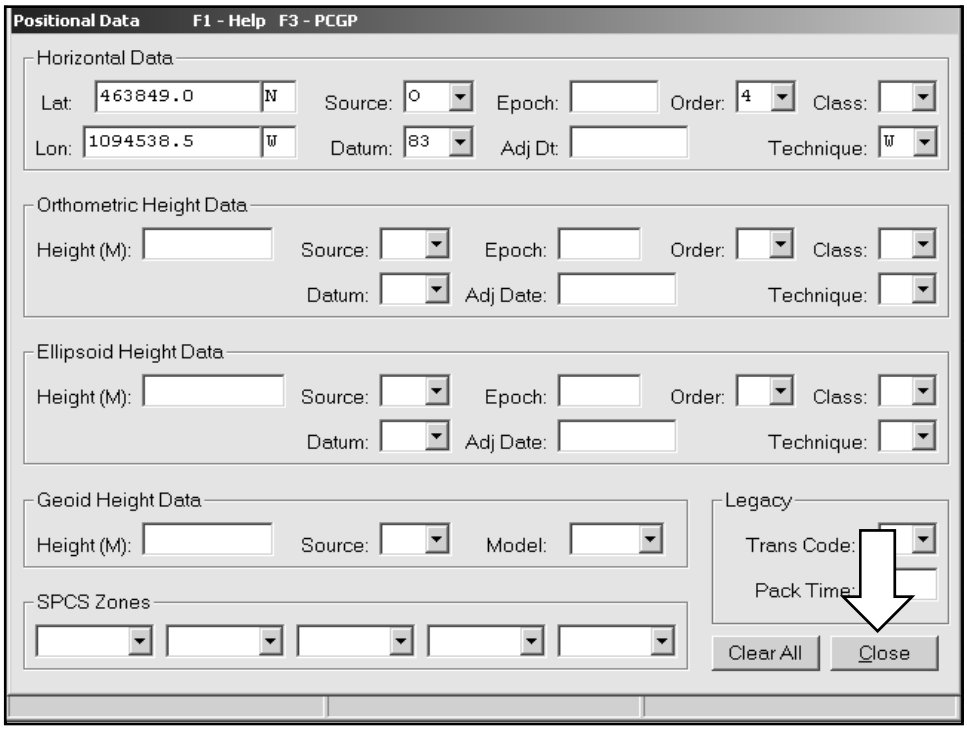

Orig Desc of a Newly Set Mark F1-Help F4-Err F5-Neighbors F10-Archive
SSN: 1004 D/R: D Desig: W 535 RESET
Aerial Alias:
Country: US State: MT County: WHEATLAND Load
Quad: App.: GPS: ID:
Monumentation Information
Set. Agcy: C MTDOT Date Set: 20090409 C.O.P.: CS VMNum:
Surface Marker
Cat: R Type: F Mag Code: N Stability: D Flush/Proj/Rec.: R 34
IN
CM
FT
Setting Code: / Setting Phrase:
Logo: Stamp:
Underground Marker
Type: Mag Code: Stability: Set Code: Date Set:
Rod/Pipe
Depth: Sleeve:
Reset Info
PID: Desig:
Position Text 1 2 3 web Carry D-Sheet Delete Save Exit

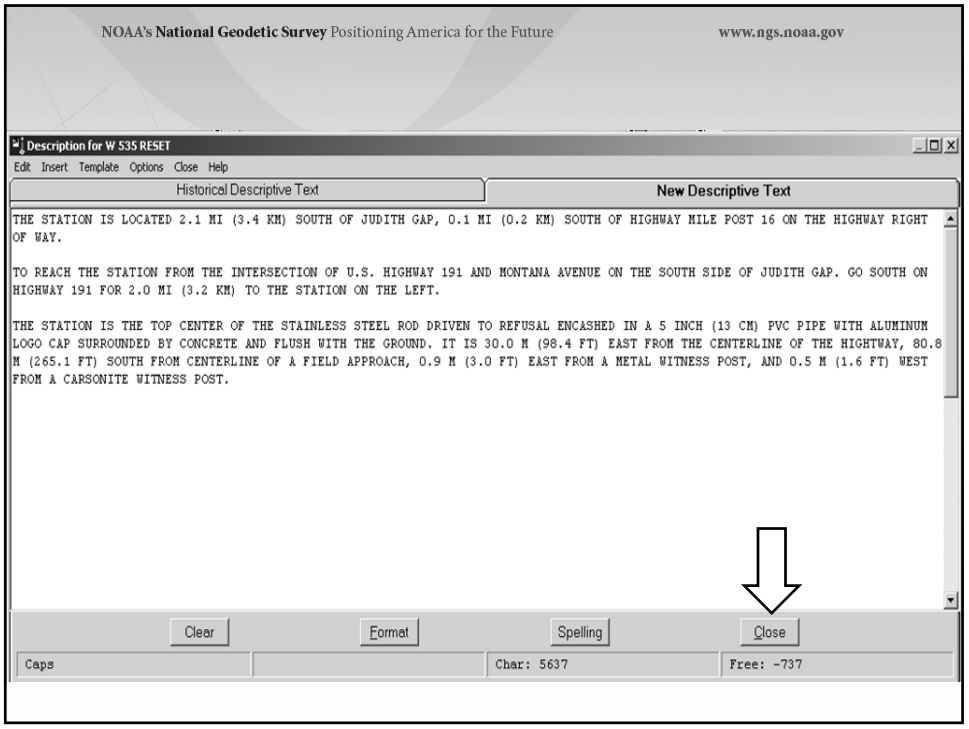

Orig Desc of a Newly Set Mark F1-Help F4-Err F5-Neighbors F10-Archive
SSN: 1004 D/R: D Desig: W 535 RESET
Aerial Alias:
Country: US State: MT County: WHEATLAND Load
Quad: App.: GPS: ID:
Monumentation Information
Set. Agcy: C MTDOT Date Set: 20090409 C.O.P.: CS VMNum:
Surface Marker
Cat: R Type: F Mag Code: N Stability: D Flush/Proj/Rec.: R 34 IN
Setting Code: / Setting Phrase:
Logo:
00-OTHER
02-OBJECT DRIVEN INTO GROUND
04-OBJECT SURROUNDED BY MASS OF CONCRETE
07-SET IN TOP OF CONCRETE MONUMENT
09-SET IN PREFABRICATED CONCRETE POST
15-A METAL ROD DRIVEN INTO GROUND. SEE TEXT FOR ADDITIONAL INFORMATION.
16-A METAL ROD WITH BASE PLATE BURIED/SCREWED INTO THE GROUND
17-SET INTO OR FASTENED TO TOP OF METAL PIPE DRIVEN INTO GROUND
Underground
Type:
Rod/Pipe
Depth:
Position Text 1 2 3 web Carry D-Sheet Delete Save Exit

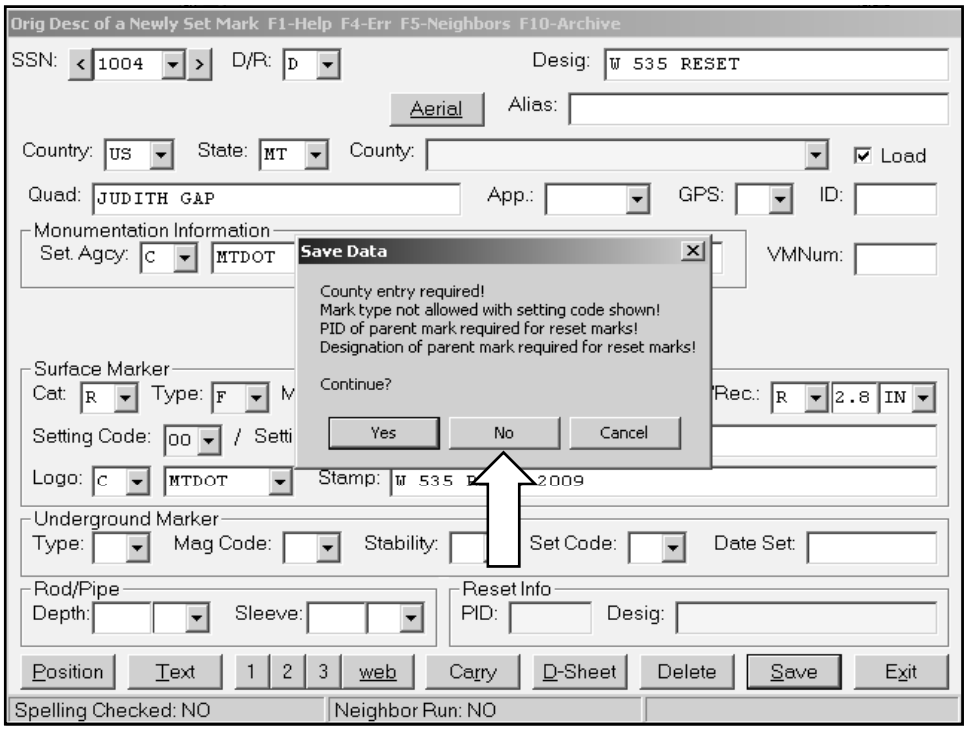

Orig Desc of a Newly Set Mark F1-Help F4-Err F5-Neighbors F10-Archive
SSN: 1004 D/R: D Desig: W 535 RESET
Aerial Alias:
Country: US State: MT County: WHEATLAND Load
Quad: App.: GPS: ID:
Monumentation Information
Set. Agcy: C MTDOT Date Set: 20090409 C.O.P.: CS VMNum:
Surface Marker
Cat: R Type: F Mag Code: N Stability: D Flush/Proj/Rec.: R 34 IN
Setting Code: 00 / Setting Phrase:
Logo: Stamp:
A - National Agencies
B - Inter-state or Inter-province Agencies
C - State, Province, Commonwelth, and Territorial Agencies
D - County Agencies
E - Municipal Agencies
F - Inter-city or Inter-county Agencies
G - Railroads
H - Utility and Natural Resource Companies
Exit

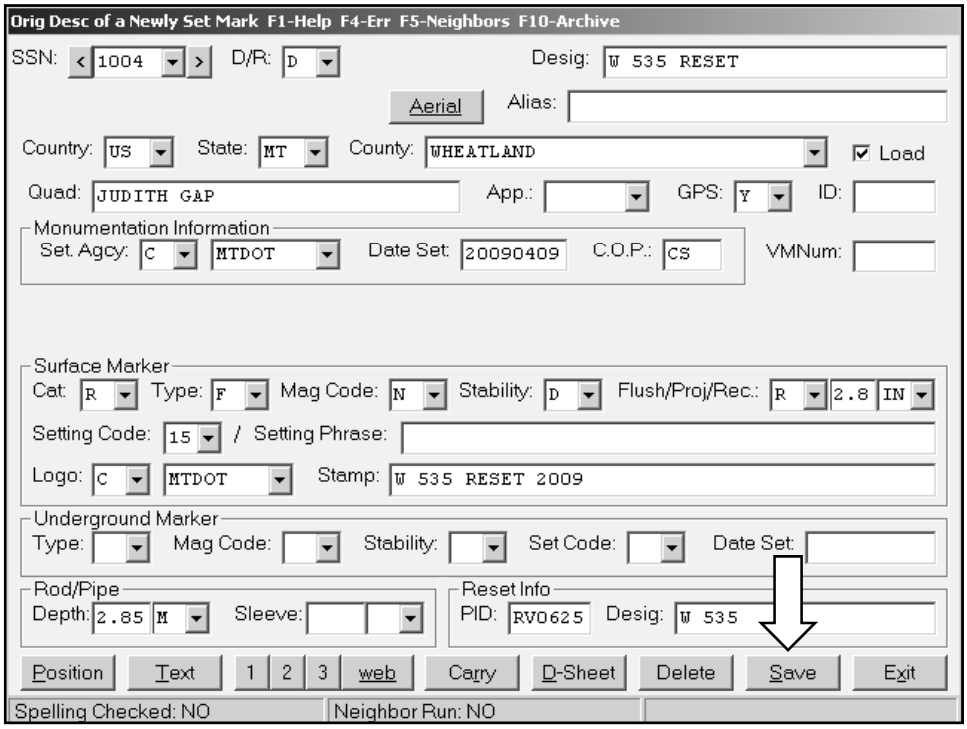

Orig Desc of a Newly Set Mark F1-Help F4-Err F5-Neighbors F10-Archive
SSN: 1004 D/R: D Desig: W 535 RESET
Aerial Alias:
Country: US State: MT County: WHEATLAND Load
Quad: App.: GPS: ID:
Monumentation Information
Set. Agcy: C MTDOT Date Set: 20090409 C.O.P.: CS VMNum:
Surface Marker
Cat: R Type: F Mag Code: N Stability: D Flush/Proj/Rec.: R 34 IN
Setting Code: 00 / Setting Phrase:
Logo: A Stamp:
NGIA NATIONAL GEOSPATIAL INTELLIGENCE AGENCY
NGS NATIONAL GEODETIC SURVEY
NGSCORNOAA, NATIONAL GEODETIC SURVEY-CORBIN
NGSTM NOAA, NATIONAL GEODETIC SURVEY-TABLE MOUNTAIN
NIH NATIONAL INSTITUTES OF HEALTH
NIMA NATIONAL IMAGERY + MAPPING AGENCY
NIST NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY
NOAA NATNL OCEANIC AND ATMOSPHERIC ADMIN
Position

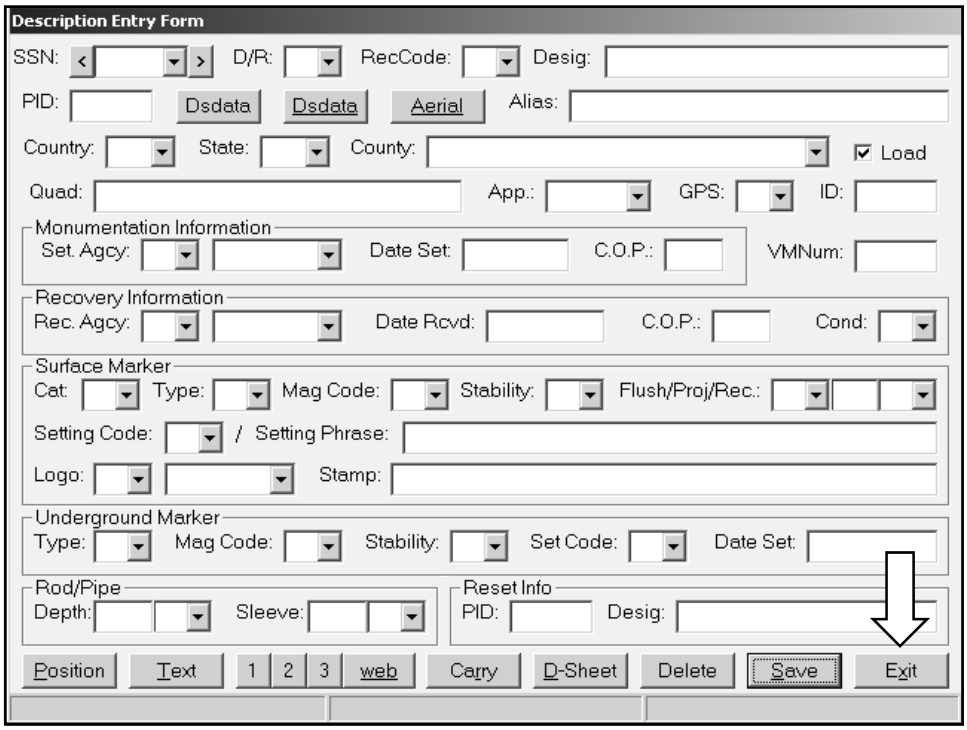

Orig Desc of a Newly Set Mark F1-Help F4-Err F5-Neighbors F10-Archive
SSN: 1004 D/R: D Desig: W 535 RESET
Aerial Alias:
Country: US State: MT County: WHEATLAND Load
Quad: App.: GPS: ID:
Monumentation Information
Set. Agcy: C MTDOT Date Set: 20090409 C.O.P.: CS VMNum:
Surface Marker
Cat: R Type: F Mag Code: N Stability: D Flush/Proj/Rec.: R 34 IN
Setting Code: 00 / Setting Phrase:
Logo: A NGS Stamp: W 535 RESET 2009
Underground Marker
Type: Mag Code: Stability: Set Code: Date Set:
Reset Info
PID: Desig:
Position Text 1 2 3 web Carry D-Sheet Delete Save Exit

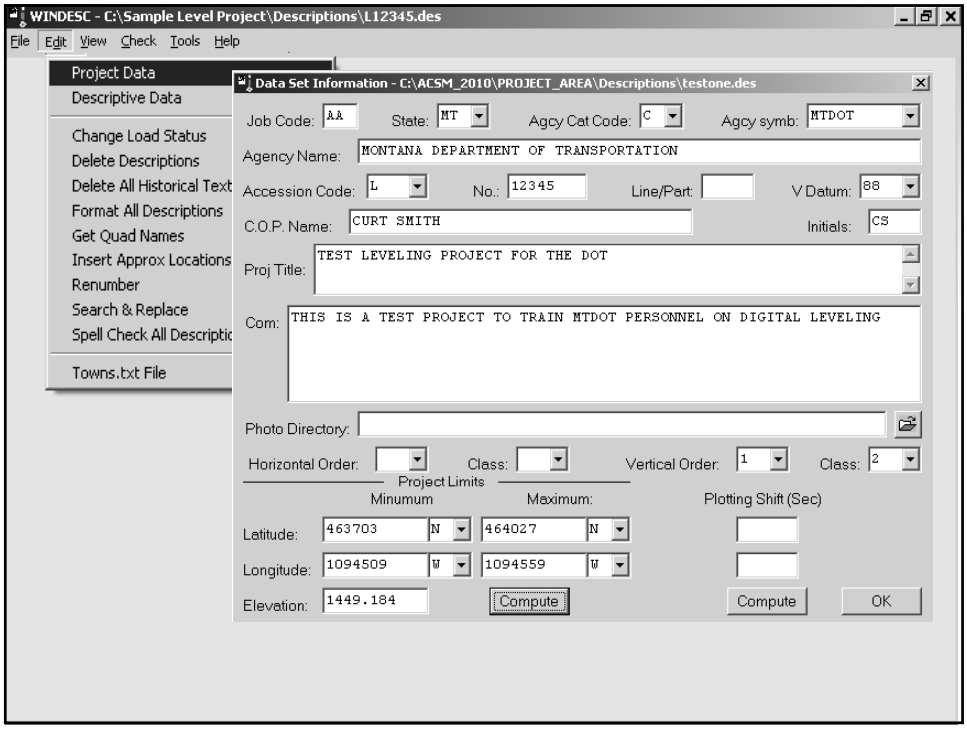

Positional Data F1 - Help F3 - PCGP
Horizontal Data
Lat: 463849.0 N Source: O Epoch: Order: 4 Class:
Lon: 1094538.5 W Datum: 83 Adj Dt: Technique: W
Orthometric Height Data
Height (M): Source: Epoch: Order: Class:
Datum: Adj Date: Technique:
Ellipsoid Height Data
Height (M): Source: Epoch: Order: Class:
Datum: Adj Date: Technique:
Geoid Height Data
Height (M): Source: Model:
SPCS Zones
Legacy
Trans Code:
Pack Time:
Clear All Close

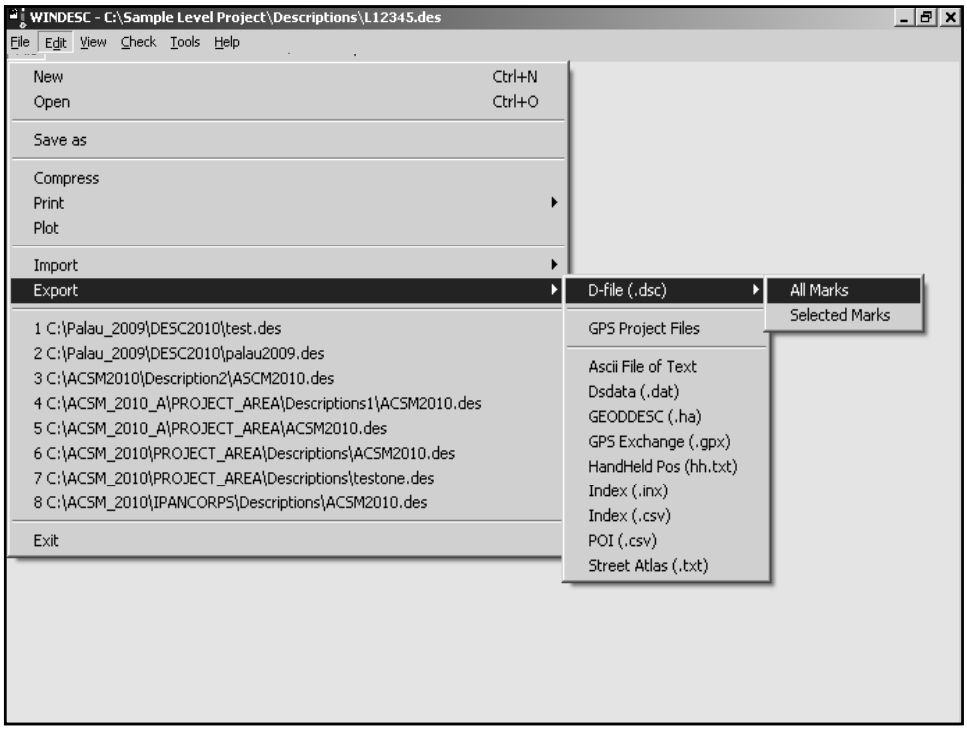

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www.ngs.noaa.gov
Description for W 535 RESET
Edit Insert Template Options Close Help
Historical Descriptive Text
New Descriptive Text
THE STATION IS LOCATED 2.1 MI (3.4 KM) SOUTH OF JUDITH GAP, 0.1 MI (0.2 KM) SOUTH OF HIGHWAY MILE POST 16 ON THE HIGHWAY RIGHT OF WAY.
TO REACH THE STATION FROM THE INTERSECTION OF U.S. HIGHWAY 191 AND MONTANA AVENUE ON THE SOUTH SIDE OF JUDITH GAP. GO SOUTH ON HIGHWAY 191 FOR 2.0 MI (3.2 KM) TO THE STATION ON THE LEFT.
THE STATION IS THE TOP CENTER OF THE STAINLESS STEEL ROD DRIVEN TO REFUSAL ENCASHED IN A 5 INCH (13 CM) PVC PIPE WITH ALUMINUM LOGO CAP SURROUNDED BY CONCRETE AND FLUSH WITH THE GROUND. IT IS 30.0 M (98.4 FT) EAST FROM THE CENTERLINE OF THE HIGHTWAY, 80.8 M (265.1 FT) SOUTH FROM CENTERLINE OF A FIELD APPROACH, 0.9 M (3.0 FT) EAST FROM A METAL WITNESS POST, AND 0.5 M (1.6 FT) WEST FROM A CARSONITE WITNESS POST.
Clear
Format
Spelling
Close
Caps
Char: 5637
Free: -737

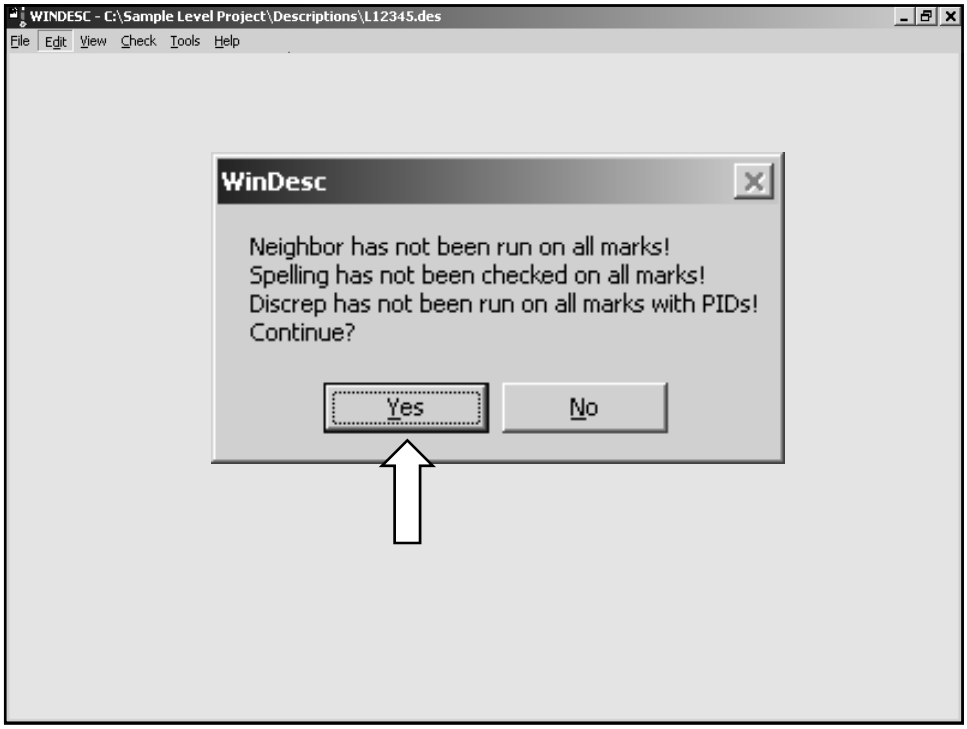

Orig Desc of a Newly Set Mark F1-Help F4-Err F5-Neighbors F10-Archive
SSN: 1004
D/R: D
Desig: W 535 RESET
Aerial
Alias:
Country: US
State: MT
County:
Load
Quad: JUDITH GAP
App.:
GPS:
ID:
Monumentation Information
Set. Agcy: C
MTDOT
VMNum:
Save Data
County entry required!
Mark type not allowed with setting code shown!
PID of parent mark required for reset marks!
Designation of parent mark required for reset marks!
Continue?
Yes
No
Cancel
Surface Marker
Cat: R
Type: F
Rec.: R 2.8 IN
Setting Code: 00
Logo: C
MTDOT
Stamp:
Underground Marker
Type:
Mag Code:
Stability:
Set Code:
Date Set:
Rod/Pipe
Depth:
Sleeve:
Reset Info
PID:
Desig:
Position
Text
1
2
3
web
Carry
D-Sheet
Delete
Save
Exit
Spelling Checked: NO
Neighbor Run: NO

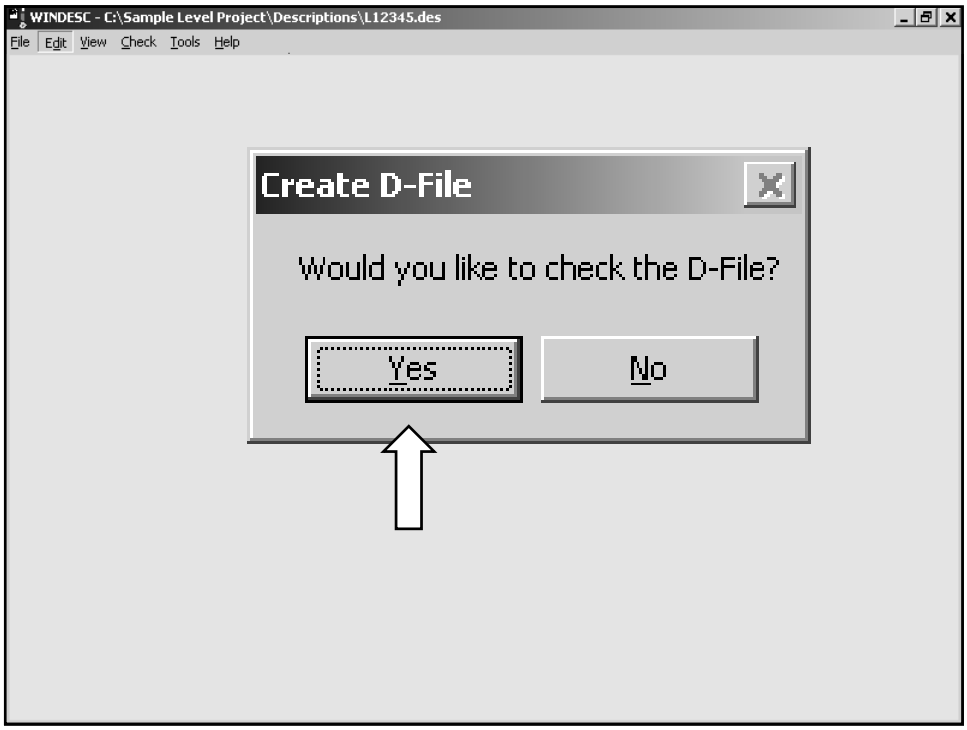

Orig Desc of a Newly Set Mark F1-Help F4-Err F5-Neighbors F10-Archive
SSN: 1004 D/R: D Desig: W 535 RESET
Aerial Alias:
Country: US State: MT County: WHEATLAND Load
Quad: JUDITH GAP App.: GPS: Y ID:
Monumentation Information
Set. Agcy: C MTDOT Date Set: 20090409 C.O.P.: CS VMNum:
Surface Marker
Cat: R Type: F Mag Code: N Stability: D Flush/Proj/Rec.: R 2.8 IN
Setting Code: 15 / Setting Phrase:
Logo: C MTDOT Stamp: W 535 RESET 2009
Underground Marker
Type: Mag Code: Stability: Set Code: Date Set:
Rod/Pipe
Depth: 2.85 M Sleeve:
Reset Info
PID: RV0625 Desig: W 535
Position Text 1 2 3 web Carry D-Sheet Delete Save Exit
Spelling Checked: NO
Neighbor Run: NO

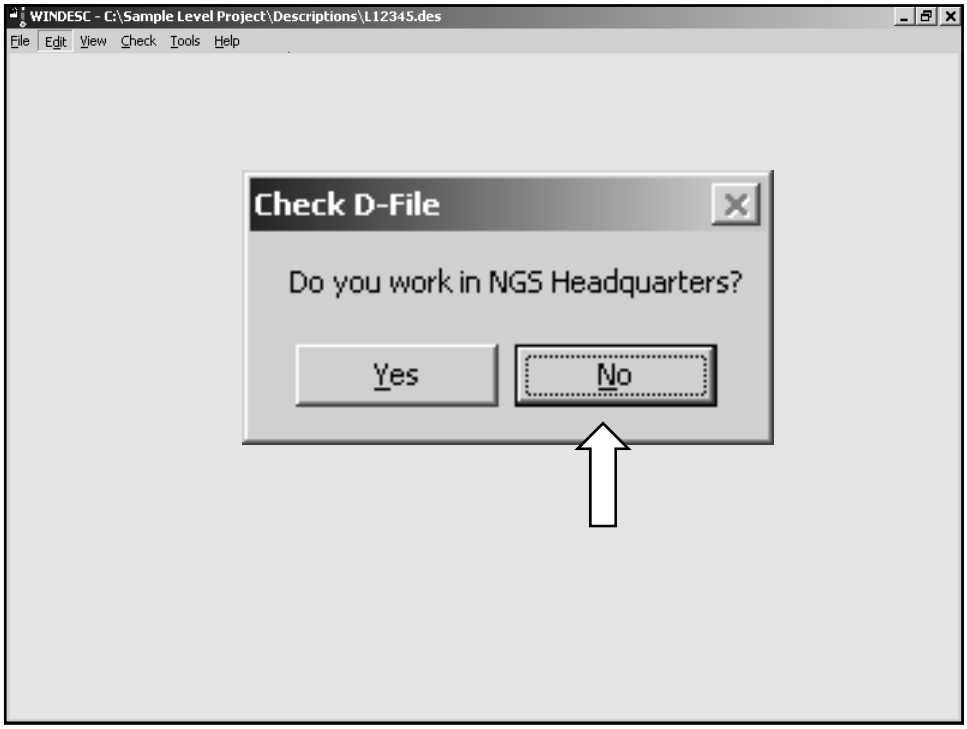

Description Entry Form
SSN: D/R: RecCode: Desig:
PID: Dsdata Dsdata Aerial Alias:
Country: State: County: Load
Quad: App.: GPS: ID:
Monumentation Information
Set. Agcy: Date Set: C.O.P.: VMNum:
Recovery Information
Rec. Agcy: Date Rcvd: C.O.P.: Cond:
Surface Marker
Cat: Type: Mag Code: Stability: Flush/Proj/Rec.:
Setting Code: / Setting Phrase:
Logo: Stamp:
Underground Marker
Type: Mag Code: Stability: Set Code: Date Set:
Rod/Pipe
Depth: Sleeve:
Reset Info
PID: Desig:
Position Text 1 2 3 web Carry D-Sheet Delete Save Exit

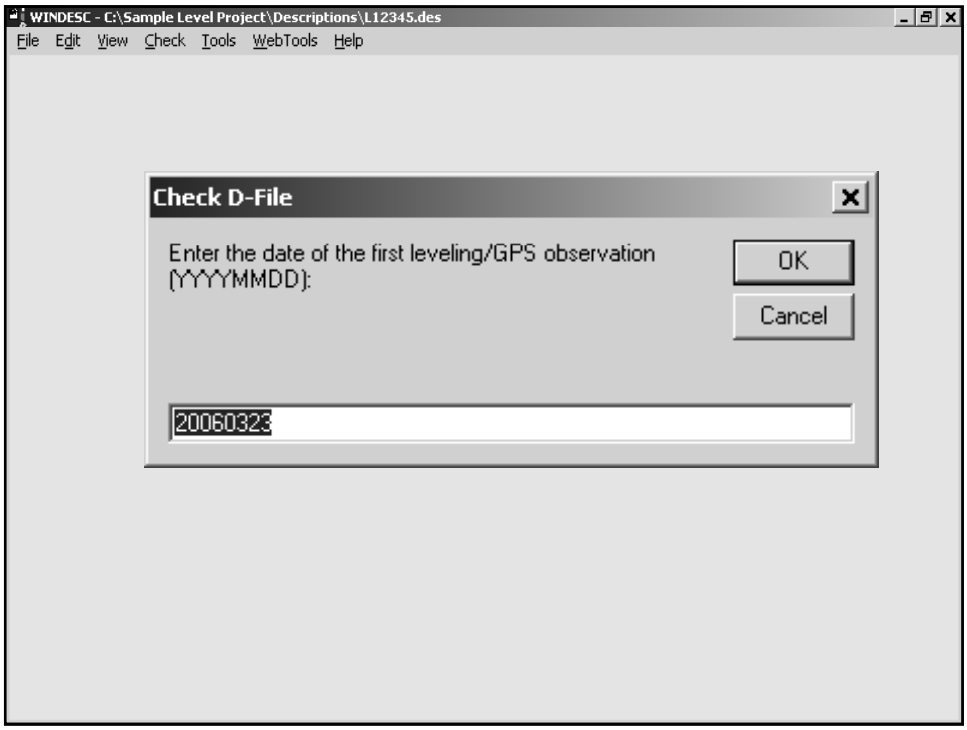

WINDESC - C:\Sample Level Project\Descriptions\L12345.des
File Edit View Check Tools Help
Project Data
Descriptive Data
Change Load Status
Delete Descriptions
Delete All Historical Text
Format All Descriptions
Get Quad Names
Insert Approx Locations
Renumber
Search & Replace
Spell Check All Descriptic
Towns.txt File
Data Set Information - C:\ACSM_2010\PROJECT_AREA\Descriptions\testone.des
Job Code: AA
State: MT
Agcy Cat Code: C
Agcy symb: MTDOT
Agency Name: MONTANA DEPARTMENT OF TRANSPORTATION
Accession Code: L
No.: 12345
Line/Part:
V Datum: 88
C.O.P. Name: CURT SMITH
Initials: CS
Proj Title: TEST LEVELING PROJECT FOR THE DOT
Com: THIS IS A TEST PROJECT TO TRAIN MTDOT PERSONNEL ON DIGITAL LEVELING
Photo Directory:
Horizontal Order:
Class:
Vertical Order: 1
Class: 2
Project Limits
Minumum
Maximum:
Plotting Shift (Sec)
Latitude: 463703 N 464027 N
Longitude: 1094509 W 1094559 W
Elevation: 1449.184
Compute
Compute
OK

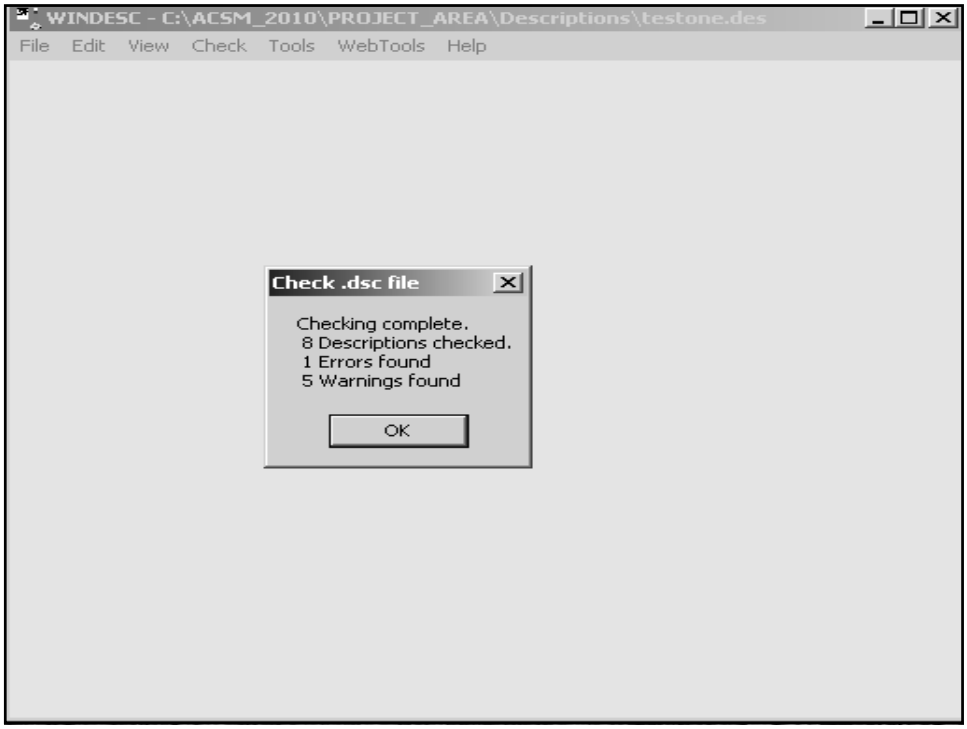

WINDESC - C:\Sample Level Project\Descriptions\L12345.des
File Edit View Check Tools Help
New Ctrl+N
Open Ctrl+O
Save as
Compress
Print
Plot
Import
Export
1 C:\Palau_2009\DESC2010\test.des
2 C:\Palau_2009\DESC2010\palau2009.des
3 C:\ACSM2010\Description2\ASCM2010.des
4 C:\ACSM_2010_A\PROJECT_AREA\Descriptions1\ACSM2010.des
5 C:\ACSM_2010_A\PROJECT_AREA\ACSM2010.des
6 C:\ACSM_2010\PROJECT_AREA\Descriptions\ACSM2010.des
7 C:\ACSM_2010\PROJECT_AREA\Descriptions\testone.des
8 C:\ACSM_2010\IPANCORPS\Descriptions\ACSM2010.des
Exit
D-file (.dsc)
GPS Project Files
Ascii File of Text
Dsdata (.dat)
GEODDESC (.ha)
GPS Exchange (.gpx)
HandHeld Pos (hh.txt)
Index (.inx)
Index (.csv)
POI (.csv)
Street Atlas (.txt)
All Marks
Selected Marks

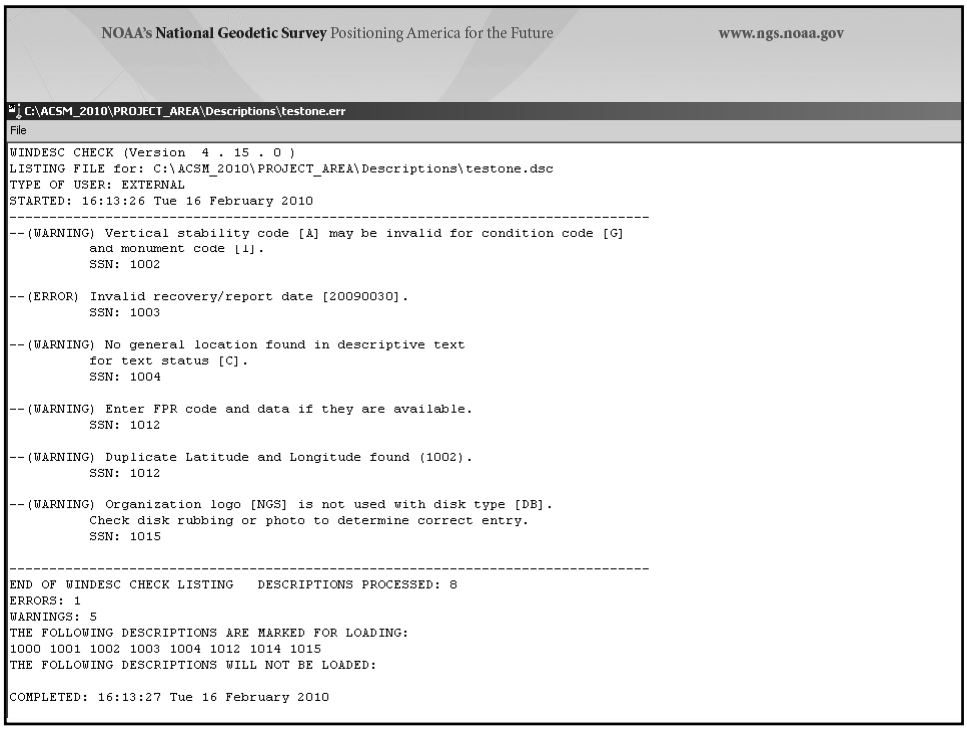

WINDESC - C:\Sample Level Project\Descriptions\L12345.des
File Edit View Check Tools Help
WinDesc
Neighbor has not been run on all marks!
Spelling has not been checked on all marks!
Discrep has not been run on all marks with PIDs!
Continue?
Yes
No

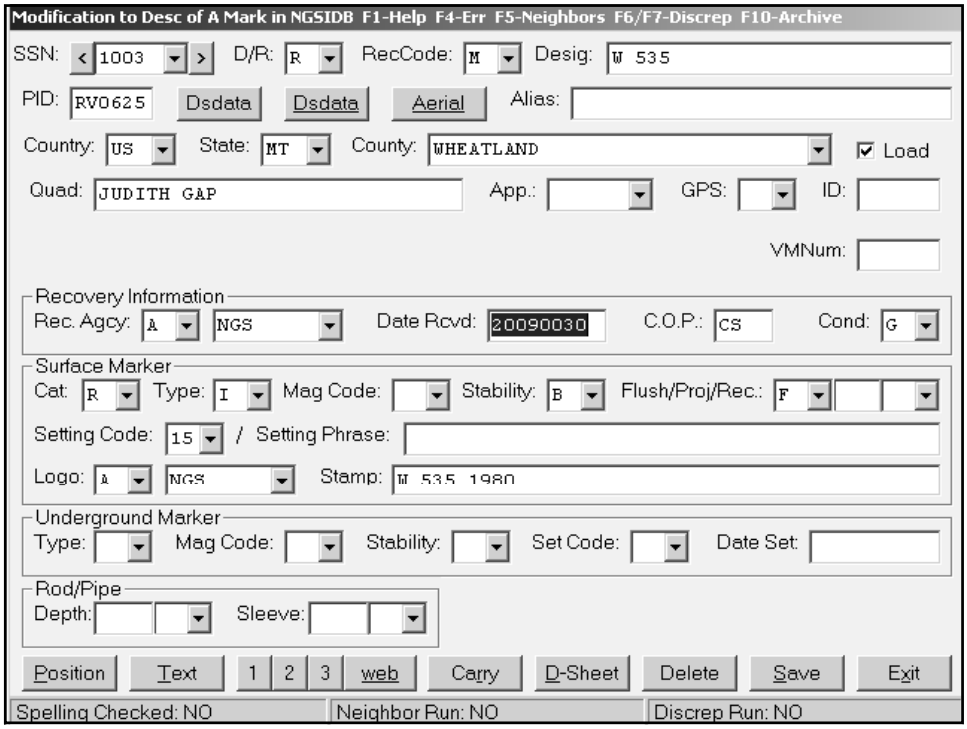

WINDESC - C:\Sample Level Project\Descriptions\L12345.des
File Edit View Check Tools Help
Create D-File
Would you like to check the D-File?
Yes
No


WINDESC - C:\Sample Level Project\Descriptions\L12345.des
File Edit View Check Tools Help
Check D-File
Do you work in NGS Headquarters?
Yes
No

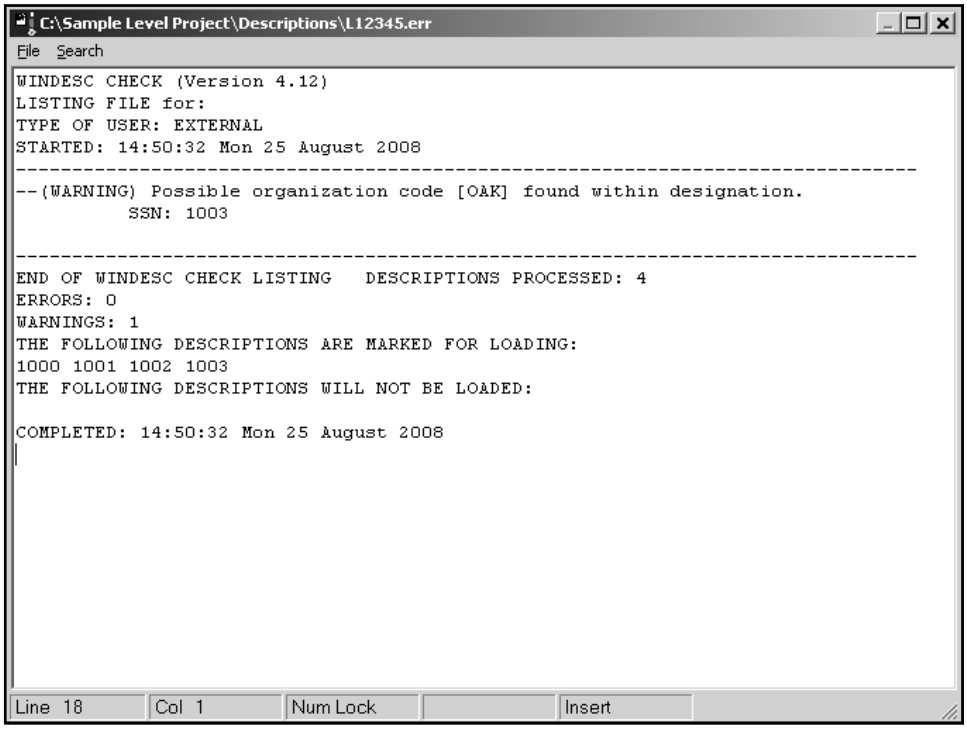

WINDESC - C:\Sample Level Project\Descriptions\L12345.des
File Edit View Check Tools WebTools Help
Check D-File
Enter the date of the first leveling/GPS observation (YYYYMMDD):
OK
Cancel
20060323

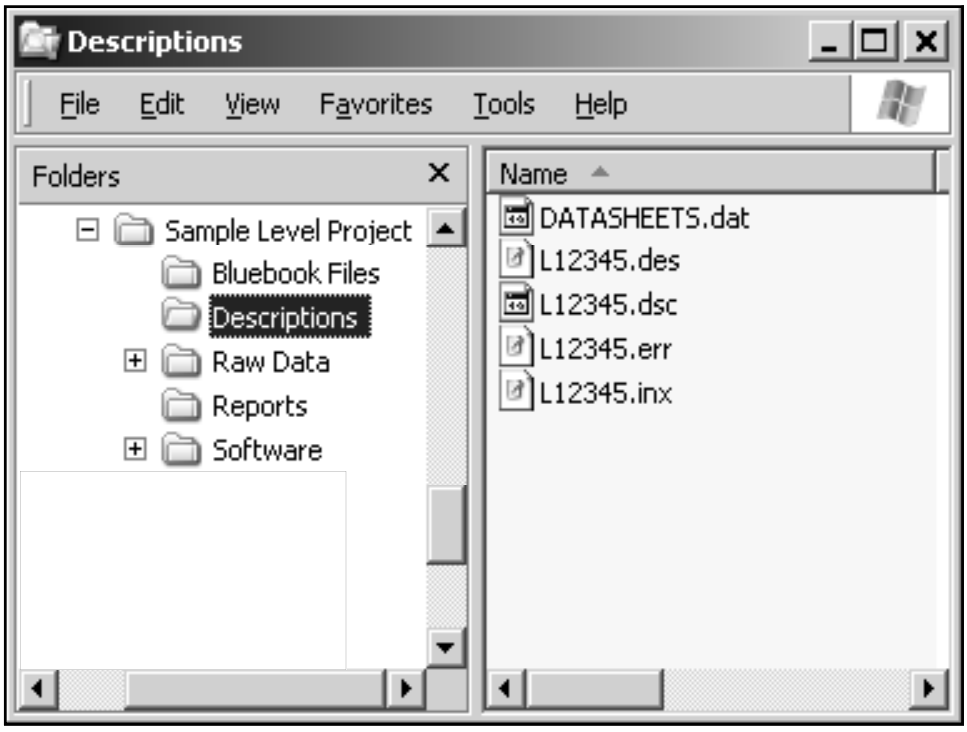

WINDESC - C:\ACSM_2010\PROJECT_AREA\Descriptions\testone.des
File Edit View Check Tools WebTools Help
Check .dsc file
Checking complete.
8 Descriptions checked.
1 Errors found
5 Warnings found
OK


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C:\ACSM_2010\PROJECT_AREA\Descriptions\testone.err
File
WINDESC CHECK (Version 4 . 15 . 0)
LISTING FILE for: C:\ACSM_2010\PROJECT_AREA\Descriptions\testone.dsc
TYPE OF USER: EXTERNAL
STARTED: 16:13:26 Tue 16 February 2010
--(WARNING) Vertical stability code [A] may be invalid for condition code [G]
and monument code [1].
SSN: 1002
--(ERROR) Invalid recovery/report date [20090030].
SSN: 1003
--(WARNING) No general location found in descriptive text
for text status [C].
SSN: 1004
--(WARNING) Enter FPR code and data if they are available.
SSN: 1012
--(WARNING) Duplicate Latitude and Longitude found (1002).
SSN: 1012
--(WARNING) Organization logo [NGS] is not used with disk type [DB].
Check disk rubbing or photo to determine correct entry.
SSN: 1015
END OF WINDESC CHECK LISTING DESCRIPTIONS PROCESSED: 8
ERRORS: 1
WARNINGS: 5
THE FOLLOWING DESCRIPTIONS ARE MARKED FOR LOADING:
1000 1001 1002 1003 1004 1012 1014 1015
THE FOLLOWING DESCRIPTIONS WILL NOT BE LOADED:
COMPLETED: 16:13:27 Tue 16 February 2010


Modification to Desc of A Mark in NGSIDB F1-Help F4-Err F5-Neighbors F6/F7-Discrep F10-Archive
SSN: 1003 D/R: R RecCode: M Desig: W 535
PID: RV0625 Dsdata Dsdata Aerial Alias:
Country: US State: MT County: WHEATLAND Load
Quad: JUDITH GAP App.: GPS: ID:
VMNum:
Recovery Information
Rec. Agcy: A NGS Date Rcvd: 20090030 C.O.P.: CS Cond: G
Surface Marker
Cat: R Type: I Mag Code: Stability: B Flush/Proj/Rec.: F
Setting Code: 15 / Setting Phrase:
Logo: A NGS Stamp: W 535 1980
Underground Marker
Type: Mag Code: Stability: Set Code: Date Set:
Rod/Pipe
Depth: Sleeve:
Position Text 1 2 3 web Carry D-Sheet Delete Save Exit
Spelling Checked: NO
Neighbor Run: NO
Discrep Run: NO


WINDESC - C:\Sample Level Project\Descriptions\L12345.des
File Edit View Check Tools WebTools Help
Check .dsc file
Checking complete.
4 Descriptions checked.
0 Errors found
1 Warnings found
OK


C:\Sample Level Project\Descriptions\L12345.err
File Search
WINDESC CHECK (Version 4.12)
LISTING FILE for:
TYPE OF USER: EXTERNAL
STARTED: 14:50:32 Mon 25 August 2008
--(WARNING) Possible organization code [OAK] found within designation.
SSN: 1003
END OF WINDESC CHECK LISTING DESCRIPTIONS PROCESSED: 4
ERRORS: 0
WARNINGS: 1
THE FOLLOWING DESCRIPTIONS ARE MARKED FOR LOADING:
1000 1001 1002 1003
THE FOLLOWING DESCRIPTIONS WILL NOT BE LOADED:
COMPLETED: 14:50:32 Mon 25 August 2008
Line 18
Col 1
Num Lock
Insert


Descriptions
File Edit View Favorites Tools Help
Folders
Sample Level Project
Bluebook Files
Descriptions
Raw Data
Reports
Software
Name
DATASHEETS.dat
L12345.des
L12345.dsc
L12345.err
L12345.inx

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MARK LISTING FOR: testone 17 February 2010

SSN	PID	DESIGNATION	LATITUDE	LONGITUDE	ELEVATION	D/E	R	C	SC	STA B	RPT DATE	COP
1000	RV0588	H 200	N463703	W1094558	1438.90700	R	M	46	B		20090715	CS
1001	RV0627	Y 535	N463751	W1094558	1449.18400	R	M	49	B		20090715	CS
1002	RV0626	X 535	N463820	W1094550	1418.58100	R	M	66	B		20090715	CS
1003	RV0625	W 535	N463848	W1094541	1401.10600	R	M	15	B		20090615	CS
1004		W 535 RESET	N463849.0	W1094538.5		D		15	D		20090409	CS
1012	RV0773	X 535 RESET	N463820	W1094550	1416.92000	R	M	07	C		20090715	CS
1014	RV0624	V 535	N463935	W1094527	1413.77300	R	M	49	B		20090715	CS
1015	RV0623	U 535	N464026	W1094509	1398.97900	R	M	38	B		20090715	CS

New marks set: 1
Recovered marks: 7
Total marks: 8

Marks to load: 8

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Questions?

WinDesc Exercise
(30/40 minutes)

