

# ELEVATION CERTIFICATE

OMB No. 1660-0008  
Expires March 31, 2012

Important: Read the instructions on pages 1-9.

## SECTION A - PROPERTY INFORMATION

A1. Building Owner's Name Michelle Mace		For Insurance Company Use: Policy Number
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 5721 Preserve Dr.		Company NAIC Number

City Flora Vista State NM ZIP Code 87415

A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.)  
Bk1501/Pg47

A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) Residential

A5. Latitude/Longitude: Lat. 36°46'58.46844"N Long. 108°06'31.61086"W Horizontal Datum:  NAD 1927  NAD 1983

A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.

A7. Building Diagram Number n/a

A8. For a building with a crawlspace or enclosure(s):

a) Square footage of crawlspace or enclosure(s) n/a sq ft

b) No. of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade n/a

c) Total net area of flood openings in A8.b n/a sq in

d) Engineered flood openings?  Yes  No

A9. For a building with an attached garage:

a) Square footage of attached garage n/a sq ft

b) No. of permanent flood openings in the attached garage within 1.0 foot above adjacent grade n/a

c) Total net area of flood openings in A9.b n/a sq in

d) Engineered flood openings?  Yes  No

## SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

B1. NFIP Community Name & Community Number Unincorporated Areas 35045C0715F		B2. County Name San Juan		B3. State NM	
B4. Map/Panel Number 0715	B5. Suffix F	B6. FIRM Index Date Preliminary 8/28/08	B7. FIRM Panel Effective/Revised Date	B8. Flood Zone(s) X	B9. Base Flood Elevation(s) (Zone AO, use base flood depth) N/A

B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9.  
 FIS Profile  FIRM  Community Determined  Other (Describe) \_\_\_\_\_

B11. Indicate elevation datum used for BFE in Item B9:  NGVD 1929  NAVD 1988  Other (Describe) \_\_\_\_\_

B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)?  Yes  No  
Designation Date \_\_\_\_\_  CBRS  OPA

## SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

C1. Building elevations are based on:  Construction Drawings\*  Building Under Construction\*  Finished Construction  
\*A new Elevation Certificate will be required when construction of the building is complete.

C2. Elevations – Zones A1-A30, AE, AH, A (with BFE), VE, V1-V30, V (with BFE), AR, AR/A, AR/AE, AR/A1-A30, AR/AH, AR/AO. Complete Items C2.a-h below according to the building diagram specified in Item A7. Use the same datum as the BFE.  
Benchmark Utilized opus Vertical Datum NAVD88  
Conversion/Comments \_\_\_\_\_

Check the measurement used.

a) Top of bottom floor (including basement, crawlspace, or enclosure floor) n/a  feet  meters (Puerto Rico only)

b) Top of the next higher floor n/a  feet  meters (Puerto Rico only)

c) Bottom of the lowest horizontal structural member (V Zones only) n/a  feet  meters (Puerto Rico only)

d) Attached garage (top of slab) n/a  feet  meters (Puerto Rico only)

e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments) n/a  feet  meters (Puerto Rico only)

f) Lowest adjacent (finished) grade next to building (LAG) n/a  feet  meters (Puerto Rico only)

g) Highest adjacent (finished) grade next to building (HAG) n/a  feet  meters (Puerto Rico only)

h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support n/a  feet  meters (Puerto Rico only)

## SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION

This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information. I certify that the information on this Certificate represents my best efforts to interpret the data available. I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.

Check here if comments are provided on back of form. Were latitude and longitude in Section A provided by a licensed land surveyor?  Yes  No

Certifier's Name Scott Andrae		License Number 9625	
Title Owner	Company Name Intermountain Mapping Serices, LLC		
Address 1875 Hwy 170	City La Plata	State NM	ZIP Code 87418
Signature	Date 11/17/10	Telephone 505-325-5244	

PLACE  
SEAL  
HERE

<b>IMPORTANT: In these spaces, copy the corresponding information from Section A.</b>	For Insurance Company Use:
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 2525 Glade Road	Policy Number
City FarmingtonState NM ZIP Code 87410	Company NAIC Number

**SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION (CONTINUED)**

Copy both sides of this Elevation Certificate for (1) community official, (2) insurance agent/company, and (3) building owner.

Comments This is for permitting only. Proposed structure is in Flood zone X by elevation and positioning. Lat, Long, and Elevation were determined from GPS observations and submitted to NGS for OPUS processing. BFE would be 5439.47 in the adjacent flood zone. Zone was determined from Lat and Long. A 5/8" rebar with cap was set for a benchmark at a fence, elevation is 5442.78.

Signature	Date 11/17/10	<input checked="" type="checkbox"/> Check here if attachments
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**SECTION E - BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO AND ZONE A (WITHOUT BFE)**

For Zones AO and A (without BFE), complete Items E1-E5. If the Certificate is intended to support a LOMA or LOMR-F request, complete Sections A, B, and C. For Items E1-E4, use natural grade, if available. Check the measurement used. In Puerto Rico only, enter meters.

- E1. Provide elevation information for the following and check the appropriate boxes to show whether the elevation is above or below the highest adjacent grade (HAG) and the lowest adjacent grade (LAG).  
 a) Top of bottom floor (including basement, crawlspace, or enclosure) is \_\_\_\_\_.  feet  meters  above or  below the HAG.  
 b) Top of bottom floor (including basement, crawlspace, or enclosure) is \_\_\_\_\_.  feet  meters  above or  below the HAG.
- E2. For Building Diagrams 6-9 with permanent flood openings provided in Section A Items 8 and/or 9 (see pages 8-9 of Instructions), the next higher floor (elevation C2.b in the diagrams) of the building is \_\_\_\_\_.  feet  meters  above or  below the HAG.
- E3. Attached garage (top of slab) is \_\_\_\_\_.  feet  meters  above or  below the HAG.
- E4. Top of platform of machinery and/or equipment servicing the building is \_\_\_\_\_.  feet  meters  above or  below the HAG.
- E5. Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community's floodplain management ordinance?  Yes  No  Unknown. The local official must certify this information in Section G.

**SECTION F - PROPERTY OWNER (OR OWNER'S REPRESENTATIVE) CERTIFICATION**

The property owner or owner's authorized representative who completes Sections A, B, and E for Zone A (without a FEMA-issued or community-issued BFE) or Zone AO must sign here. *The statements in Sections A, B, and E are correct to the best of my knowledge.*

Property Owner's or Owner's Authorized Representative's Name			
Address	City	State	ZIP Code
Signature	Date	Telephone	
Comments			

Check here if attachments

**SECTION G - COMMUNITY INFORMATION (OPTIONAL)**

The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections A, B, C (or E), and G of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in Items G8 and G9.

- G1.  The information in Section C was taken from other documentation that has been signed and sealed by a licensed surveyor, engineer, or architect who is authorized by law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.)
- G2.  A community official completed Section E for a building located in Zone A (without a FEMA-issued or community-issued BFE) or Zone AO.
- G3.  The following information (Items G4-G9) is provided for community floodplain management purposes.

G4. Permit Number	G5. Date Permit Issued	G6. Date Certificate Of Compliance/Occupancy Issued
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- G7. This permit has been issued for:  New Construction  Substantial Improvement
- G8. Elevation of as-built lowest floor (including basement) of the building: \_\_\_\_\_.  feet  meters (PR) Datum \_\_\_\_\_
- G9. BFE or (in Zone AO) depth of flooding at the building site: \_\_\_\_\_.  feet  meters (PR) Datum \_\_\_\_\_
- G10. Community's design flood elevation: \_\_\_\_\_.  feet  meters (PR) Datum \_\_\_\_\_

Local Official's Name	Title
Community Name	Telephone
Signature	Date
Comments	

Check here if attachments

Scott W Andrae <[scottandrae@wildblue.net](mailto:scottandrae@wildblue.net)>

## OPUS-RS solution : 59353200.DAT 000167053

1 message

opus <[opus@ngs.noaa.gov](mailto:opus@ngs.noaa.gov)>

Tue, Nov 16, 2010 at 5:26 PM

Reply-To: [ngs.opus@noaa.gov](mailto:ngs.opus@noaa.gov)To: [scottandrae@wildblue.net](mailto:scottandrae@wildblue.net)

FILE: 59353200.DAT 000167053

2005 NOTE: The IGS precise and IGS rapid orbits were not available  
 2005 at processing time. The IGS ultra-rapid orbit was/will be used to  
 2005 process the data.

2005

6011 Warning - OPUS-RS was able to find a set of reference stations  
 6011 with data suitable for use with your dataset. However, your  
 6011 position does not fall within the polygon enclosing these reference  
 6011 stations. This means that the geographic interpolation algorithms  
 6011 performed within OPUS-RS must instead perform extrapolation.  
 6011 Extrapolation, especially if your position is far from the  
 6011 reference stations, is prone to error. Use this solution with  
 6011 caution.

Your station is 2.7 KM outside the polygon enclosing the reference stations.

### NGS OPUS-RS SOLUTION REPORT

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USER: [scottandrae@wildblue.net](mailto:scottandrae@wildblue.net)

DATE: November 17, 2010

RINEX FILE: 5935320s.10o

TIME: 00:26:05 UTC

SOFTWARE: rsgps 1.35.1 RS11.prl 1.62 START: 2010/11/16 18:17:55

EPHEMERIS: igu16102.eph [ultra-rapid] STOP: 2010/11/16 18:37:20

NAV FILE: brdc3200.10n OBS USED: 780 / 780 : 100%

ANT NAME: TRM5800 QUALITY IND. 27.00/ 27.26

ARP HEIGHT: 2.072 NORMALIZED RMS: 0.250

REF FRAME: NAD\_83(CORS96)(EPOCH:2002.0000)

ITRF00 (EPOCH:2010.87608)

X: -1590093.535(m) 0.020(m) -1590094.290(m) 0.020(m)

Y: -4862373.727(m) 0.026(m) -4862372.395(m) 0.026(m)

Z: 3799105.846(m) 0.025(m) 3799105.730(m) 0.025(m)

LAT: 36 46 58.46844 0.005(m) 36 46 58.48546 0.005(m)

E LON: 251 53 28.38914 0.011(m) 251 53 28.34351 0.011(m)

W LON: 108 6 31.61086 0.011(m) 108 6 31.65649 0.011(m)

EL HGT: 1637.945(m) 0.039(m) 1637.050(m) 0.039(m)

ORTHO HGT: 1658.981(m) 0.042(m) [NAVD88 (Computed using GEOID09)]

### UTM COORDINATES STATE PLANE COORDINATES

UTM (Zone 12) SPC (3003 NM W)

Northing (Y) [meters] 4074689.930 641426.656

Easting (X) [meters] 758010.064 805414.455

Convergence [degrees] 1.73217311 -0.16493455

Point Scale 1.00042019 0.99992411

Combined Factor 1.00016310 0.99966714

US NATIONAL GRID DESIGNATOR: 12SYF5801074689(NAD 83)

BASE STATIONS USED

PID	DESIGNATION	LATITUDE	LONGITUDE	DISTANCE(m)
AI0265	AZCN AZTEC CORS ARP	N365023.235	W1075439.422	18753.7
DI2245	P011 SPIDERROCKAZ2005 CORS ARP	N360859.363	W1093109.175	144658.3
DI0438	NMGR GRANTS NMDOT CORS ARP	N351259.649	W1075548.368	174589.5
DJ8977	ABQ5 ALBUQUERQUE 5 CORS ARP	N345726.546	W1062940.037	249606.9

NEAREST NGS PUBLISHED CONTROL POINT

GO0229	K 431	N364713.	W1080634.	453.2
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This position and the above vector components were computed without any knowledge by the National Geodetic Survey regarding the equipment or field operating procedures used.

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