

=====

DATE: 11.09.2017
TIME: 15:27:06.105 GPS time

```

SOFTWARE: DPOS(6/29/2017 2:10:02 PM)          START: 2017/08/19 06:37:06.000 PM
EPHEMERIS: brdc                                STOP: 2017/08/19 08:44:54.000 PM
OBS USED: 5532 / 5650                        TIME SPAN: 128 min
ANT NAME:                                     Geometry factor: 0.9
ANT HEIGHT: Slant(SHMP) - 1.490 meters        FIXED AMB: Yes
ANT DELTA N/E/H: 0.000/0.000/0.000           OVERALL RMS: 0.028 meters

```

REF FRAME: NAD83(2011) (EPOCH:2010.0000) IGS08 (EPOCH:2017.6315)

| | | | | |
|----|------------------|-----------|------------------|-----------|
| X: | 857608.136 (m) | 0.016 (m) | 857607.263 (m) | 0.016 (m) |
| Y: | -4806519.622 (m) | 0.016 (m) | -4806518.201 (m) | 0.016 (m) |
| Z: | 4090620.396 (m) | 0.016 (m) | 4090620.333 (m) | 0.016 (m) |

| | | | | | |
|----------------|-------------|-----------|-----------------------------------|-------------|-----------|
| LAT: N 40 08 | 47.97408 | 0.016(m) | N 40 08 | 48.00495 | 0.016(m) |
| E LON:E 280 06 | 59.75014 | 0.016(m) | E 280 06 | 59.72439 | 0.016(m) |
| W LON: W 79 53 | 00.24986 | 0.016(m) | W 79 53 | 00.27561 | 0.016(m) |
| EL HGT: | 269.244 (m) | 0.016 (m) | | 268.016 (m) | 0.016 (m) |
| ORTHO HGT: | 302.502 (m) | 0.016 (m) | [NAVD88 (Computed using GEOD12B)] | | |

| | UTM COORDINATES | STATE PLANE COORDINATES |
|-----------------------|-----------------|---|
| | UTM (Zone 17) | SPC (NAD83 (2011) /3702 Pennsylvania South) |
| Northing (Y) [meters] | 4444632.757 | 92502.939 |
| Easting (X) [meters] | 17595109.213 | 418233.359 |
| Convergence [degrees] | 0.71997587 | -1.38413709 |
| Point Scale | 0.99971136 | 0.99997350 |
| Combined Factor | 0.99966913 | 0.99993127 |

US NATIONAL GRID DESIGNATOR: NONE

BASE STATIONS USED

| PID | DESIGNATION | LATITUDE | | LONGITUDE | | DISTANCE (m) |
|------|-------------|----------|--------------|-----------|---------------|--------------|
| NONE | PAAP (CORS) | N | 40 26 40.255 | W | 79 57 32.1291 | 33693.1 |
| NONE | PAFU (CORS) | N | 39 55 35.688 | W | 79 41 50.5101 | 29143.4 |
| NONE | PAGW (CORS) | N | 39 53 56.119 | W | 80 09 36.3777 | 36258.9 |
| NONE | PAII (CORS) | N | 40 36 20.248 | W | 79 11 09.3284 | 78142.8 |
| NONE | PAWG (CORS) | N | 40 18 19.242 | W | 79 30 22.3773 | 36622.4 |

RESIDUALS OF POSITION

| VECTOR | dX | dY | dZ | dN | dE | dU |
|-----------------|--------|--------|--------|--------|--------|--------|
| PAAP - log0819b | -0.008 | -0.022 | -0.008 | -0.019 | -0.012 | 0.011 |
| PAFU - log0819b | -0.008 | -0.004 | -0.001 | -0.002 | -0.009 | 0.001 |
| PAGW - log0819b | 0.019 | -0.049 | -0.021 | -0.049 | 0.010 | 0.026 |
| PAII - log0819b | -0.006 | -0.027 | -0.013 | -0.027 | -0.011 | 0.011 |
| PAWG - log0819b | -0.001 | 0.104 | 0.044 | 0.100 | 0.018 | -0.050 |