

O-57-932 NGS SOLUTION REPORT

DATE: January 25, 2011
TIME: 18:34:39 UTC

SOFTWARE: page5 1009.28 master28.pl 121510 START: 2010/11/30 14:23:00
EPHEMERIS: igs16122.eph [precise] STOP: 2010/11/30 21:17:00
NAV FILE: brdc3340.10n OBS USED: 17485/17785 : 98%
ANT NAME: TPSPG_A1 #FIXED AMB: 76/77 : 99%
ARP HEIGHT: 1.7875 OVERALL RMS: 0.012(m)

REF FRAME: NAD_83(CORS96)(EPOCH:2002.0000) ITRF00 (EPOCH:2010.9144)

X: -565037.727(m) 0.007(m) -565038.469(m) 0.007(m)
Y: -5098547.989(m) 0.024(m) -5098546.604(m) 0.024(m)
Z: 3777968.035(m) 0.013(m) 3777967.885(m) 0.013(m)

LAT: 36 33 17.44324 0.007(m) 36 33 17.46435 0.007(m)
E LON: 263 40 33.96058 0.005(m) 263 40 33.92479 0.005(m)
W LON: 96 19 26.03942 0.005(m) 96 19 26.07521 0.005(m)
EL HGT: 239.855(m) 0.026(m) 238.725(m) 0.026(m)
ORTHO HGT: 268.182(m) 0.045(m) [NAVD88 (Computed using GEOID09)]

	UTM COORDINATES	STATE PLANE COORDINATES
	UTM (Zone 14)	SPC (3501 OK N)
Northing (Y) [meters]	4048824.608	173812.725
Easting (X) [meters]	739515.254	750045.463
Convergence [degrees]	1.59462179	0.98914560
Point Scale	1.00030684	0.99996820
Combined Factor	1.00026919	0.99993056

US NATIONAL GRID DESIGNATOR: 14SQF3951548824(NAD 83)

BASE STATIONS USED				
PID	DESIGNATION	LATITUDE	LONGITUDE	DISTANCE(m)
AF9518	LMNO LAMONT CORS ARP	N364107.584	W0972850.621	104493.5
DG9769	OKPR PERRY CORS ARP	N361634.464	W0971917.976	94680.1
DE8101	OKTU TULSA CORS ARP	N361238.113	W0955115.783	56870.4

NEAREST NGS PUBLISHED CONTROL POINT
GH0031 D 136 N363327. W0961934. 355.6

O-57-933 NGS SOLUTION REPORT

DATE: January 25, 2011
TIME: 17:03:06 UTC

SOFTWARE: page5 1009.28 master2.pl 121510 START: 2010/11/18 15:25:00
EPHEMERIS: igs16104.eph [precise] STOP: 2010/11/18 21:32:00
NAV FILE: brdc3220.10n OBS USED: 15087/15423 : 98%
ANT NAME: TPSPG_A1 #FIXED AMB: 62/67 : 93%
ARP HEIGHT: 1.4206 OVERALL RMS: 0.012(m)

REF FRAME: NAD_83(CORS96)(EPOCH:2002.0000) ITRF00 (EPOCH:2010.8816)

X: -564671.555(m) 0.020(m) -564672.296(m) 0.020(m)
Y: -5098346.616(m) 0.014(m) -5098345.231(m) 0.014(m)
Z: 3778286.252(m) 0.033(m) 3778286.102(m) 0.033(m)

LAT: 36 33 30.38170 0.017(m) 36 33 30.40281 0.017(m)
E LON: 263 40 47.70308 0.019(m) 263 40 47.66734 0.019(m)
W LON: 96 19 12.29692 0.019(m) 96 19 12.33266 0.019(m)
EL HGT: 236.220(m) 0.032(m) 235.090(m) 0.032(m)
ORTHO HGT: 264.550(m) 0.055(m) [NAVD88 (Computed using GEOID09)]

	UTM COORDINATES	STATE PLANE COORDINATES
	UTM (Zone 14)	SPC (3501 OK N)
Northing (Y) [meters]	4049232.922	174217.385
Easting (X) [meters]	739845.868	750380.261
Convergence [degrees]	1.59703366	0.99139841
Point Scale	1.00030880	0.99996863
Combined Factor	1.00027171	0.99993156

US NATIONAL GRID DESIGNATOR: 14SQF3984549232(NAD 83)

BASE STATIONS USED				
PID	DESIGNATION	LATITUDE	LONGITUDE	DISTANCE(m)
AF9518	LMNO LAMONT CORS ARP	N364107.584	W0972850.621	104774.9
DG9769	OKPR PERRY CORS ARP	N361634.464	W0971917.976	95132.3
DE8101	OKTU TULSA CORS ARP	N361238.113	W0955115.783	56886.2

NEAREST NGS PUBLISHED CONTROL POINT
GH0031 D 136 N363327. W0961934. 549.1

O-57-934 NGS SOLUTION REPORT

DATE: January 25, 2011
TIME: 17:03:58 UTC

SOFTWARE: page5 1009.28 master2.pl 121510 START: 2010/11/18 15:47:00
EPHEMERIS: igs16104.eph [precise] STOP: 2010/11/18 21:40:00
NAV FILE: brdc3220.10n OBS USED: 14442/14789 : 98%
ANT NAME: TPSPG_A1 #FIXED AMB: 63/69 : 91%
ARP HEIGHT: 1.4915 OVERALL RMS: 0.012(m)

REF FRAME: NAD_83(CORS96)(EPOCH:2002.0000) ITRF00 (EPOCH:2010.8816)

X: -564378.459(m) 0.015(m) -564379.200(m) 0.015(m)
Y: -5098092.193(m) 0.019(m) -5098090.808(m) 0.019(m)
Z: 3778678.603(m) 0.025(m) 3778678.453(m) 0.025(m)

LAT: 36 33 46.11498 0.008(m) 36 33 46.13609 0.008(m)
E LON: 263 40 58.29160 0.014(m) 263 40 58.25585 0.014(m)
W LON: 96 19 1.70840 0.014(m) 96 19 1.74415 0.014(m)
EL HGT: 240.905(m) 0.031(m) 239.775(m) 0.031(m)
ORTHO HGT: 269.239(m) 0.053(m) [NAVD88 (Computed using GEOID09)]

	UTM COORDINATES	STATE PLANE COORDINATES
	UTM (Zone 14)	SPC (3501 OK N)
Northing (Y) [meters]	4049725.205	174706.832
Easting (X) [meters]	740095.623	750635.119
Convergence [degrees]	1.59895247	0.99313418
Point Scale	1.00031027	0.99996915
Combined Factor	1.00027246	0.99993135

US NATIONAL GRID DESIGNATOR: 14SQF4009549725(NAD 83)

BASE STATIONS USED				
PID	DESIGNATION	LATITUDE	LONGITUDE	DISTANCE(m)
AF9518	LMNO LAMONT CORS ARP	N364107.584	W0972850.621	104968.7
DG9769	OKPR PERRY CORS ARP	N361634.464	W0971917.976	95539.4
DE8101	OKTU TULSA CORS ARP	N361238.113	W0955115.783	57023.2

NEAREST NGS PUBLISHED CONTROL POINT
GH0031 D 136 N363327. W0961934. 996.3

O-57-935 NGS SOLUTION REPORT

DATE: January 27, 2011
TIME: 15:38:25 UTC

SOFTWARE: page5 1009.28 master28.pl 121510 START: 2010/12/21 14:41:00
EPHEMERIS: igs16152.eph [precise] STOP: 2010/12/21 20:46:00
NAV FILE: brdc3350.10n OBS USED: 14593/15306 : 95%
ANT NAME: TPSPG_A1 #FIXED AMB: 72/78 : 92%
ARP HEIGHT: 1.4267 OVERALL RMS: 0.012(m)

REF FRAME: NAD_83(CORS96)(EPOCH:2002.0000) ITRF00 (EPOCH:2010.9719)

X: -564122.071(m) 0.005(m) -564122.813(m) 0.005(m)
Y: -5097724.274(m) 0.033(m) -5097722.889(m) 0.033(m)
Z: 3779200.520(m) 0.017(m) 3779200.370(m) 0.017(m)

LAT: 36 34 7.32591 0.012(m) 36 34 7.34703 0.012(m)
E LON: 263 41 6.91197 0.008(m) 263 41 6.87619 0.008(m)
W LON: 96 18 53.08803 0.008(m) 96 18 53.12381 0.008(m)
EL HGT: 235.471(m) 0.035(m) 234.341(m) 0.035(m)
ORTHO HGT: 263.808(m) 0.059(m) [NAVD88 (Computed using GEOID09)]

	UTM COORDINATES	STATE PLANE COORDINATES
	UTM (Zone 14)	SPC (3501 OK N)
Northing (Y) [meters]	4050384.963	175364.256
Easting (X) [meters]	740291.696	750838.089
Convergence [degrees]	1.60060273	0.99454732
Point Scale	1.00031143	0.99996987
Combined Factor	1.00027447	0.99993291

US NATIONAL GRID DESIGNATOR: 14SQF4029150384(NAD 83)

BASE STATIONS USED				
PID	DESIGNATION	LATITUDE	LONGITUDE	DISTANCE(m)
AF9518	LMNO LAMONT CORS ARP	N364107.584	W0972850.621	105094.5
DG9769	OKPR PERRY CORS ARP	N361634.464	W0971917.976	95957.8
DE8101	OKTU TULSA CORS ARP	N361238.113	W0955115.783	57317.1

NEAREST NGS PUBLISHED CONTROL POINT
GH0032 C 136 N363418. W0961815. 1001.8

O-57-936 NGS SOLUTION REPORT

DATE: January 25, 2011
TIME: 18:40:47 UTC

SOFTWARE: page5 1009.28 master50.pl 121510 START: 2010/12/01 13:22:00
EPHEMERIS: igs16123.eph [precise] STOP: 2010/12/01 20:34:00
NAV FILE: brdc3350.10n OBS USED: 17070/17735 : 96%
ANT NAME: TPSPG_A1 #FIXED AMB: 79/81 : 98%
ARP HEIGHT: 1.7967 OVERALL RMS: 0.012(m)

REF FRAME: NAD_83(CORS96)(EPOCH:2002.0000) ITRF00 (EPOCH:2010.9170)

X: -563558.081(m) 0.007(m) -563558.823(m) 0.007(m)
Y: -5097177.166(m) 0.034(m) -5097175.781(m) 0.034(m)
Z: 3780019.389(m) 0.023(m) 3780019.239(m) 0.023(m)

LAT: 36 34 40.36922 0.011(m) 36 34 40.39035 0.011(m)
E LON: 263 41 27.03842 0.006(m) 263 41 27.00263 0.006(m)
W LON: 96 18 32.96158 0.006(m) 96 18 32.99737 0.006(m)
EL HGT: 236.881(m) 0.036(m) 235.752(m) 0.036(m)
ORTHO HGT: 265.226(m) 0.062(m) [NAVD88 (Computed using GEOID09)]

	UTM COORDINATES	STATE PLANE COORDINATES
	UTM (Zone 14)	SPC (3501 OK N)
Northing (Y) [meters]	4051417.438	176391.328
Easting (X) [meters]	740763.568	751320.693
Convergence [degrees]	1.60428454	0.99784664
Point Scale	1.00031423	0.99997100
Combined Factor	1.00027704	0.99993383

US NATIONAL GRID DESIGNATOR: 14SQF4076351417(NAD 83)

BASE STATIONS USED				
PID	DESIGNATION	LATITUDE	LONGITUDE	DISTANCE(m)
AF9518	LMNO LAMONT CORS ARP	N364107.584	W0972850.621	105464.5
DG9769	OKPR PERRY CORS ARP	N361634.464	W0971917.976	96772.4
DE8101	OKTU TULSA CORS ARP	N361238.113	W0955115.783	57670.3

NEAREST NGS PUBLISHED CONTROL POINT
GH0032 C 136 N363418. W0961815. 823.0

O-57-937 NGS SOLUTION REPORT

DATE: January 25, 2011
TIME: 18:40:35 UTC

SOFTWARE: page5 1009.28 master40.pl 121510 START: 2010/11/30 14:06:00
EPHEMERIS: igs16122.eph [precise] STOP: 2010/11/30 20:58:30
NAV FILE: brdc3340.10n OBS USED: 17138/17533 : 98%
ANT NAME: TPSPG_A1 #FIXED AMB: 74/74 : 100%
ARP HEIGHT: 1.4359 OVERALL RMS: 0.012(m)

REF FRAME: NAD_83(CORS96)(EPOCH:2002.0000) ITRF00 (EPOCH:2010.9143)

X: -563266.429(m) 0.010(m) -563267.171(m) 0.010(m)
Y: -5096654.016(m) 0.017(m) -5096652.631(m) 0.017(m)
Z: 3780772.668(m) 0.015(m) 3780772.518(m) 0.015(m)

LAT: 36 35 10.66429 0.006(m) 36 35 10.68543 0.006(m)
E LON: 263 41 36.38667 0.008(m) 263 41 36.35089 0.008(m)
W LON: 96 18 23.61333 0.008(m) 96 18 23.64911 0.008(m)
EL HGT: 242.536(m) 0.023(m) 241.407(m) 0.023(m)
ORTHO HGT: 270.887(m) 0.040(m) [NAVD88 (Computed using GEOID09)]

	UTM COORDINATES	STATE PLANE COORDINATES
	UTM (Zone 14)	SPC (3501 OK N)
Northing (Y) [meters]	4052357.722	177329.054
Easting (X) [meters]	740969.781	751536.775
Convergence [degrees]	1.60615186	0.99937910
Point Scale	1.00031545	0.99997206
Combined Factor	1.00027738	0.99993400

US NATIONAL GRID DESIGNATOR: 14SQF4096952357(NAD 83)

BASE STATIONS USED				
PID	DESIGNATION	LATITUDE	LONGITUDE	DISTANCE(m)
AF9518	LMNO LAMONT CORS ARP	N364107.584	W0972850.621	105588.2
DG9769	OKPR PERRY CORS ARP	N361634.464	W0971917.976	97312.6
DE8101	OKTU TULSA CORS ARP	N361238.113	W0955115.783	58169.9

NEAREST NGS PUBLISHED CONTROL POINT
GH0032 C 136 N363418. W0961815. 1642.5