

**AZ\_NavajoNation\_D22**  
**Survey Report**

Contract Number: G16PC00044  
Task Order Number: 140G0221D0017



**Contractor Point-of-Contact (POC)**

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# Overview

Digital Aerial Solutions, LLC (DAS) with contract number G16PC00044 was contracted by the United States Geological Survey under task order number 140G0221D0017 to collect a high-resolution LiDAR data set covering 6,054 square miles in Arizona. Each of these categories was spread out as evenly as possible throughout the Area of Interest (AOI). The geodetic survey for AZ\_NavajoNation\_D22 was conducted in two phases. The first phase comprised of a static network, involving thirty (30) control points and seven (7) NGS-benchmarks, well distributed in the entire defined project area (DPA). GPS observations were collected on these established points to establish a baseline connection among all points within the geodetic network. The survey was completed using three Leica Global Positioning System (LEIGS15) collecting data concurrently at 1-hz epoch. All data was processed using Leica Grafnet Version 8.90.2124 software. The data processing involved two levels of network adjustment; namely minimally constrained adjustment followed by a multiple constrained adjustment. Final output result for the network was evaluated to ensure that horizontal and vertical solution network result was within the project accuracy requirements.

The second phase of the geodetic survey involved the use of RTK (Base & Rover) methodology to perform checkpoint surveys using all the established geodetic control points in phase one as base-station points. The RTK was conducted using Leica-GS15 as base station and Leica-GS18 as rover. A SATEL-TA18 long range radio Modem was utilized for radio communication between the Base and Rover GPS units. Each observation was identified in the field and surveyed in accordance with section C.1.e.(i)(d) of the task order, the spatial reference system used was:

## **Spatial Reference System:**

Coordinate System: Universal Transverse Mercator UTM Zone 12

Horizontal Datum: North American Datum 1983 (2011)

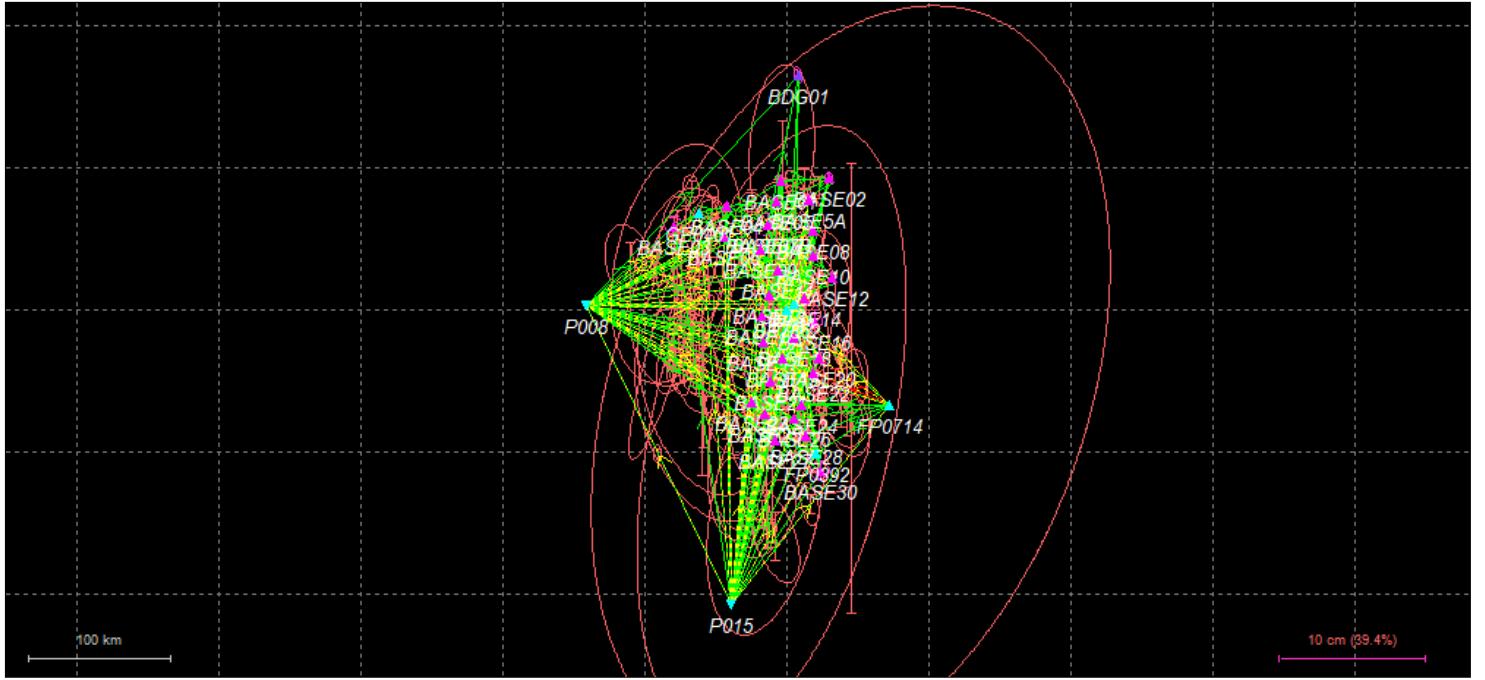
Vertical Datum: North American Vertical Datum of 1988

Units: Meters

Geoid Model: Geoid 18

Section C.1.b.(viii) of the task order outlines the ground control minimum requirements and specifications for this LiDAR project. 68 Supplemental ground control points were collected and used to support the airborne GPS solution and positional accuracy. DAS also collected more than the required number of Non-Vegetated Vertical Accuracy (NVA) and Vegetated Vertical Accuracy (VVA) Quality Checkpoints as stated in the task order. These checkpoints serve as an independent delivery to the client and were not incorporated into the vertical solution.

Network solution results is shown below;



**Table 1: Station Coordinates**

Coordinate datum is NAD83(2011)  
Grid coordinates in UTM, Zone 12

ID	Latitude (D M S)	Longitude (D M S)	Ell-Hgt (m)	Type	Hz-SD (m)	Vt-SD (m)	Grid-X (m)	Grid-Y (m)
BASE01	36 55 30.24327	-109 36 54.93240	1491.018	NET-SOL	0.004	0.005	623332.978	4087455.398
BASE02	36 56 21.13435	-109 14 45.22967	1611.746	NET-SOL	0.004	0.005	656204.187	4089565.328
BASE03	36 37 55.43325	-110 27 00.42937	1884.944	NET-SOL	0.006	0.012	549161.175	4054198.149
BASE04	36 45 49.61487	-110 02 19.84637	1582.402	NET-SOL	0.002	0.003	585784.656	4069099.127
BASE05	36 47 27.90503	-109 39 04.01544	1545.122	NET-SOL	0.002	0.003	620349.176	4072545.655
BASE06	36 34 35.53582	-110 03 36.00881	1686.336	NET-SOL	0.003	0.004	584099.908	4048309.116
BASE07	36 38 52.50110	-109 43 26.06498	1648.664	NET-SOL	0.004	0.005	614065.840	4056574.088
BASE07B	36 38 52.52869	-109 43 26.05927	1648.617	NET-SOL	0.017	0.014	614065.971	4056574.940
BASE08	36 36 40.09247	-109 22 15.61210	1752.123	NET-SOL	0.003	0.004	645682.186	4052971.205
BASE09	36 29 21.86453	-109 46 53.32860	1758.554	NET-SOL	0.003	0.005	609142.159	4038923.269
BASE10	36 27 14.75169	-109 22 30.09255	1782.384	NET-SOL	0.003	0.006	645616.641	4035543.565
BASE11	36 21 42.57832	-109 38 47.83352	1659.064	NET-SOL	0.004	0.007	621420.640	4024931.911
BASE12	36 18 40.48328	-109 13 00.12334	2130.544	NET-SOL	0.003	0.007	660098.366	4019946.674
BASE13	36 12 26.92889	-109 42 51.94780	1806.532	NET-SOL	0.007	0.016	615564.069	4007727.365
BASE14	36 11 02.37552	-109 26 28.54787	1949.608	NET-SOL	0.003	0.006	640163.460	4005482.071
BASE15	36 04 14.46500	-109 45 59.68081	1774.093	NET-SOL	0.006	0.013	611068.760	3992492.424
BASE16	36 02 27.06501	-109 21 40.16661	2062.779	NET-SOL	0.006	0.015	647635.022	3989721.960
BASE17	35 54 34.29378	-109 45 38.45979	1843.684	NET-SOL	0.004	0.008	611826.858	3974623.041
BASE18	35 56 26.46488	-109 30 53.07295	1780.546	NET-SOL	0.003	0.007	633967.608	3978388.858
BASE19	35 48 23.87997	-109 36 40.08346	1889.548	NET-SOL	0.002	0.004	625483.941	3963391.506

BASE20	35 48 41.59758	-109 19 35.23268	2202.216	NET-SOL	0.004	0.008	651197.631	3964339.719
BASE21	35 39 24.34189	-109 42 04.16814	1849.843	NET-SOL	0.004	0.007	617569.972	3946656.280
BASE22	35 43 09.84696	-109 22 06.26286	2162.376	NET-SOL	0.004	0.008	647577.225	3954053.695
BASE23	35 31 44.81952	-109 51 03.37435	1783.983	NET-SOL	0.003	0.003	604176.723	3932329.743
BASE24	35 30 49.01941	-109 27 43.40615	2032.297	NET-SOL	0.004	0.005	639462.744	3931091.042
BASE25	35 27 26.65173	-109 44 59.63698	1875.478	NET-SOL	0.004	0.005	613438.313	3924487.215
BASE26	35 25 40.88784	-109 30 56.27358	1913.516	NET-SOL	0.002	0.003	634746.947	3921522.959
BASE27	35 17 40.28652	-109 39 49.86555	1764.331	NET-SOL	0.004	0.006	621490.958	3906524.023
BASE28	35 19 02.64846	-109 25 53.72047	1890.396	NET-SOL	0.004	0.008	642571.198	3909370.964
BASE30	35 05 51.01396	-109 18 44.27375	1825.175	NET-SOL	0.006	0.013	653830.269	3885158.839
BASE5A	36 48 14.21533	-109 24 14.92728	1635.975	NET-SOL	0.004	0.005	642361.737	4074312.029
BDG01	37 34 51.96410	-109 28 57.39199	1748.967	NET-SOL	0.006	0.005	633981.169	4160421.144
DR7362	36 06 33.53023	-109 34 36.38048	1667.626	GCP-3D	0.000	0.000	628098.925	3997010.806
FP0392	35 12 32.94101	-109 20 52.31068	1760.469	GCP-3D	0.000	0.000	650382.566	3897487.719
FP0714	35 30 50.90025	-108 46 56.88777	1949.587	GCP-3D	0.000	0.000	701095.989	3932322.813
GP0401	36 43 22.27439	-110 15 25.23479	1712.184	GCP-3D	0.000	0.000	566348.052	4064385.620
P008	36 08 34.13974	-111 07 48.12588	1522.876	GCP-HZ	0.000	0.001	488301.422	3999796.920
P011	36 08 59.36363	-109 31 09.17513	1729.382	GCP-3D	0.000	0.000	633211.257	4001581.827
P015	34 15 49.70276	-110 00 34.10226	1931.058	GCP-HZ	0.000	0.001	591190.970	3791850.744

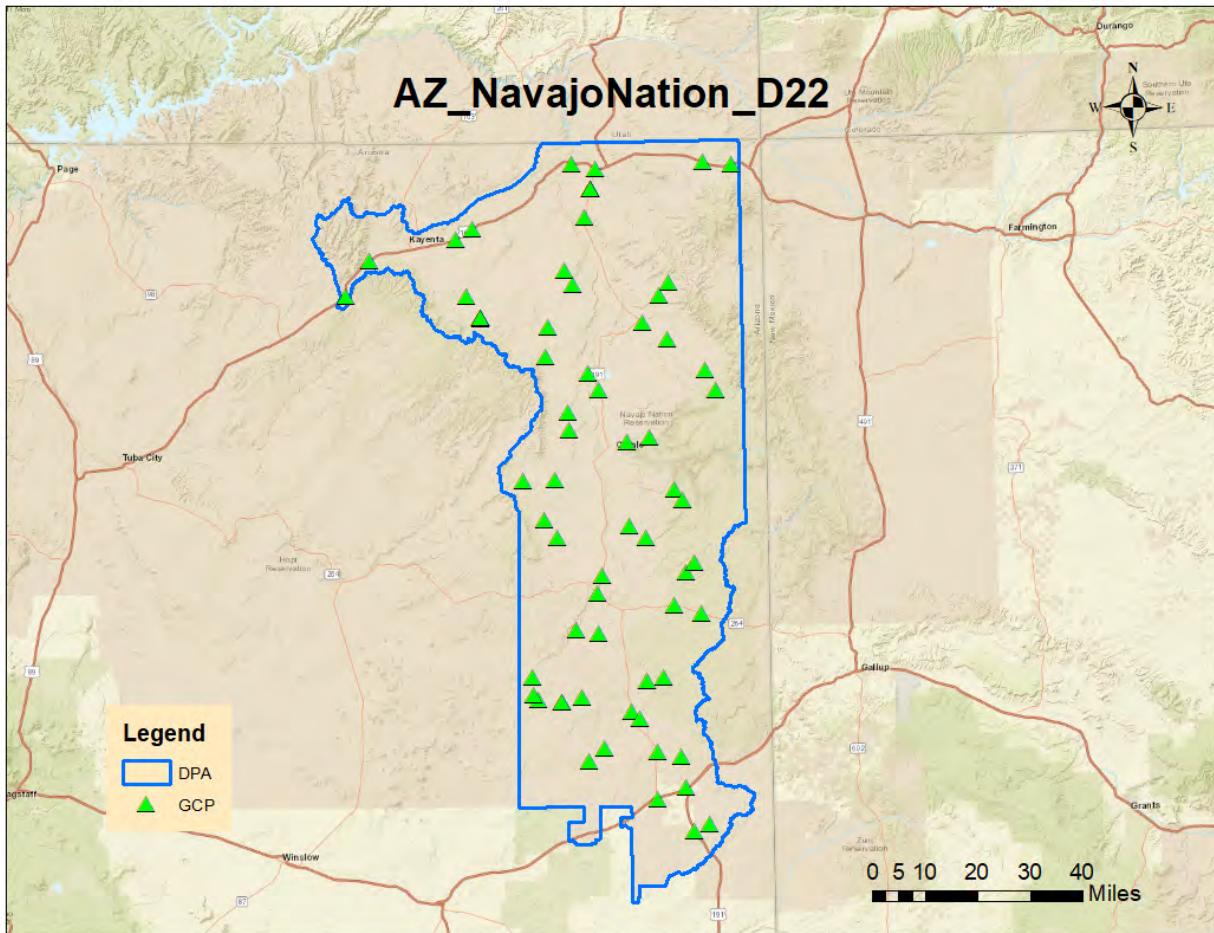
# Glossary of Terms

## Term - Definition

ATTN	- Attention
BE	- Bare Earth Checkpoint (see NVA)
CTRL	- Control
DAS	- Digital Aerial Solutions, LLC
Ellip	- Ellipsoid Height
FIPS	- Federal Information Processing Standard
GPS	- Global Positioning Systems
UT	- Urban Terrain (see NVA)
HV	- High Vegetation (see VVA)
ID	- Identification
LV	- Low Vegetation (see VVA)
LiDAR	- Light Detection and Ranging
MV	- Medium Vegetation (see VVA)
NAD83	- North American Datum of 1983
NAVD88	- North American Vertical Datum of 1988
NGS	- National Geodetic Survey
NGTOC	- National Geospatial Technical Operations Center
NVA	- Non-Vegetated Vertical Accuracy
Ortho	- Orthometric Height
POC	- Point of Contact
RTK	- Real Time Kinematics
USGS	- United States Geological Survey
VP	- Vice President
VVA	- Vegetated Vertical Accuracy

## Supplemental Ground Control

The Map shows the overall distribution of the Supplemental Ground Control throughout the AOI. The following tables contain a list of the control using Easting, Northing, and Orthometric height. The coordinate system displayed is Universal Transverse Mercator UTM Zone 12, North American Datum 1983 (2011), North American Vertical Datum of 1988, Geoid 18 and using Meters for measurement.



**TABLE: Ground Control Points**

Point ID	Easting	Northing	Ortho
GS0005	624521.389	4019839.494	1627.75
GS0012	609138.076	4038924.35	1778.801
GS0027	588340.083	4041833.714	1818.347
GS0028	588349.167	4041807.246	1818.014
GS0029	588361.437	4041793.88	1818.662
GS0030	588320.391	4041836.367	1817.378
GS0045	585792.309	4069100.562	1603.166
GS0056	623325.263	4087432.782	1511.925
GS0071	664808.755	4088833.815	1585.844
GS0082	621918.639	4081391.545	1614.417
GS0083	621943.725	4081376.129	1613.175
GS0084	621929.85	4081356.973	1613.23
GS0085	621937.794	4081405.642	1613.396
GS0089	614055.21	4056562.989	1668.61
GS0093	616569.452	4052178.98	1621.04
GS0100	645668.958	4052973.255	1771.786
GS0107	642987.852	4048905.769	1767.679
GS0111	645614.881	4035538.702	1802.345
GS0122	660097.67	4019942.16	2149.629
GS0133	640178.995	4005497.268	1969.418
GS0137	633124.559	4003939.019	1782.532
GS0144	606126.055	3925333.281	1819.007
GS0147	619323.338	3925950.796	1950.083
GS0150	613460.572	3924479.945	1897.55
GS0151	613430.685	3924482.432	1897.446
GS0152	604171.294	3932319.771	1805.913
GS0155	604739.488	3926544.334	1795.368
GS0163	624679.156	3945558.442	1991.267
GS0168	651207.185	3964355.752	2222.789
GS0171	653815.475	3967205.521	2332.707
GS0177	647575.159	3954041.899	2182.734
GS0184	625479.851	3963383.952	1910.105
GS0194	611856.819	3974626.969	1863.517
GS0196	607991.422	3980265.579	1874.057
GS0202	653838.233	3885147.586	1848.129
GS0206	658364.664	3887238.433	1889.309
GS0214	642655.442	3895058.349	1754.234
GS0219	651396.637	3898539.356	1794.8
GS0226	642572.187	3909384.527	1912.761
GS0230	649676.747	3907968.813	1962.115
GS0238	621490.181	3906541.446	1786.731
GS0242	626391.492	3910437.268	1803.555

<b>GS0250</b>	634737.408	3921525.153	1935.466
<b>GS0254</b>	637179.731	3919603.695	1946.807
<b>GS0262</b>	639473.668	3931106.623	2054.145
<b>GS0266</b>	644213.609	3932002.275	2174.094
<b>GS0274</b>	633970.134	3978391.321	1800.7
<b>GS0278</b>	638818.551	3974906.894	1914.122
<b>GS0281</b>	615568.85	4007722.852	1826.818
<b>GS0286</b>	615037.999	4013213.211	1714.534
<b>GS0294</b>	611054.31	3992499.668	1794.49
<b>GS0299</b>	601362.894	3992164.456	1848.299
<b>GS0308</b>	647623.78	3989713.666	2082.398
<b>GS0313</b>	650196.108	3986323.523	2142.503
<b>GS0001</b>	621434.462	4024930.936	1679.955
<b>GS0020</b>	608342.962	4030096.388	1795.49
<b>GS0023</b>	584091.755	4048319.846	1706.969
<b>GS0038</b>	547243.989	4048566.449	1985.745
<b>GS0041</b>	554584.303	4059435.962	1839.919
<b>GS0049</b>	580884.778	4065845.1	1682.841
<b>GS0060</b>	616272.76	4088864.096	1480.754
<b>GS0067</b>	656197.829	4089569.888	1632.663
<b>GS0078</b>	620329.933	4072531.251	1565.679
<b>GS0115</b>	637780.142	4040598.425	1658.339
<b>GS0126</b>	657190.057	4025974.463	2022.86
<b>GS0160</b>	617593.411	3946652.717	1871.952
<b>GS0179</b>	655898.704	3951668.08	2283.214
<b>GS0187</b>	624229.19	3957672.514	1937.604

**GS0005**



GS0005\_North



GS0005\_East



GS0005\_West



GS0005\_South

**Point ID:** GS0005

**Northing:** 4019839.494 Meters

**Easting:** 624521.389 Meters

**Orthometric Height:** 1627.75 Meters

**Latitude:** 36 18 55.922485 N

**Longitude:** 109 36 46.375506 W

**Ellipsoid Height:** 1607.387 Meters

## GS0012



**Point ID:** GS0012

**Northing:** 4038924.35 Meters

**Easting:** 609138.076 Meters

**Orthometric Height:** 1778.801 Meters

**Latitude:** 36 29 21.901281 N

**Longitude:** 109 46 53.492123 W

**Ellipsoid Height:** 1758.314 Meters

**GS0027**



**Point ID:** GS0027

**Northing:** 4041833.714 Meters

**Easting:** 588340.083 Meters

**Orthometric Height:** 1818.347 Meters

**Latitude:** 36 31 04.032495 N

**Longitude:** 110 00 48.087786 W

**Ellipsoid Height:** 1797.941 Meters

**GS0028**



**Point ID:** GS0028

**Northing:** 4041807.246 Meters

**Easting:** 588349.167 Meters

**Orthometric Height:** 1818.014 Meters

**Latitude:** 36 31 03.170588 N

**Longitude:** 110 00 47.733476 W

**Ellipsoid Height:** 1797.608 Meters

## GS0029



**Point ID:** GS0029

**Northing:** 4041793.88 Meters

**Easting:** 588361.437 Meters

**Orthometric Height:** 1818.662 Meters

**Latitude:** 36 31 02.732785 N

**Longitude:** 110 00 47.245736 W

**Ellipsoid Height:** 1798.256 Meters

**GS0030**



**Point ID:** GS0030

**Northing:** 4041836.367 Meters

**Easting:** 588320.391 Meters

**Orthometric Height:** 1817.378 Meters

**Latitude:** 36 31 04.125123 N

**Longitude:** 110 00 48.878338 W

**Ellipsoid Height:** 1796.972 Meters

## GS0045



**Point ID:** GS0045

**Northing:** 4069100.562 Meters

**Easting:** 585792.309 Meters

**Orthometric Height:** 1603.166 Meters

**Latitude:** 36 45 49.658928 N

**Longitude:** 110 02 19.537142 W

**Ellipsoid Height:** 1582.358 Meters

## GS0056



**Point ID:** GS0056

**Northing:** 4087432.782 Meters

**Easting:** 623325.263 Meters

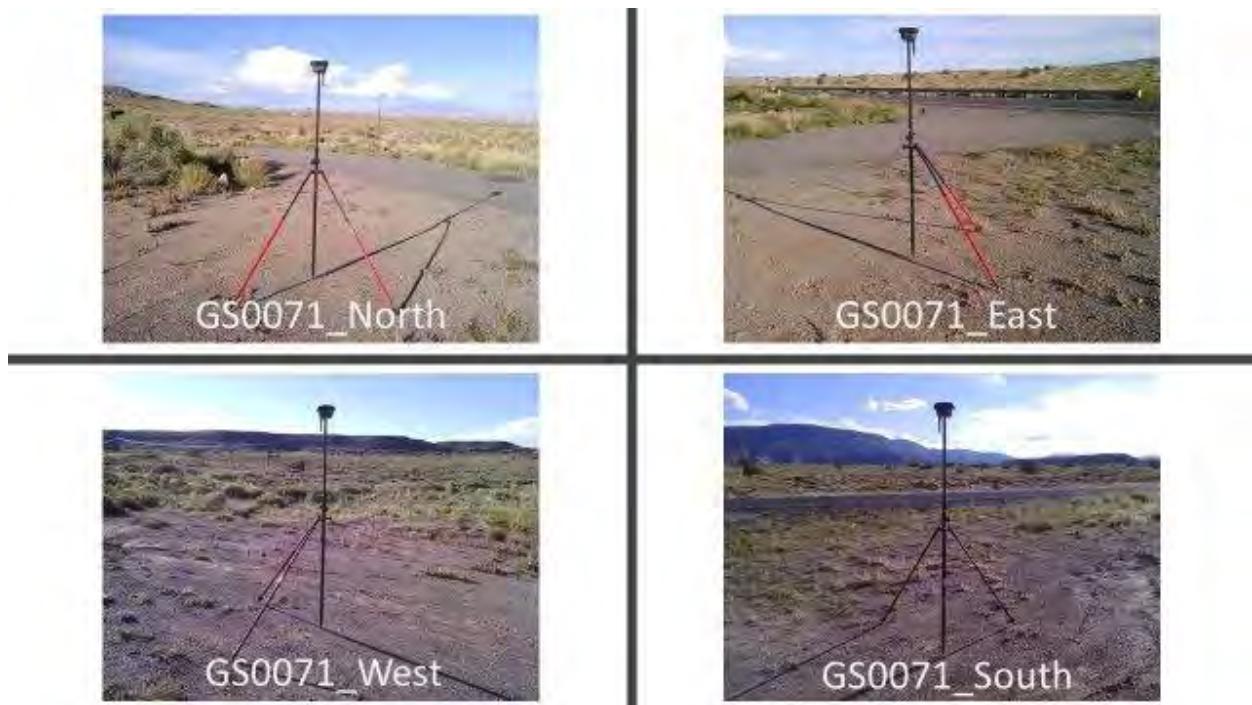
**Orthometric Height:** 1511.925 Meters

**Latitude:** 36 55 29.513185 N

**Longitude:** 109 36 55.257418 W

**Ellipsoid Height:** 1491.023 Meters

## GS0071



**Point ID:** GS0071

**Northing:** 4088833.815 Meters

**Easting:** 664808.755 Meters

**Orthometric Height:** 1585.844 Meters

**Latitude:** 36 55 52.129436 N

**Longitude:** 109 08 58.112623 W

**Ellipsoid Height:** 1565.256 Meters

## GS0082



GS0082\_North



GS0082\_East



GS0082\_West



GS0082\_South

**Point ID:** GS0082

**Northing:** 4081391.545 Meters

**Easting:** 621918.639 Meters

**Orthometric Height:** 1614.417 Meters

**Latitude:** 36 52 14.174897 N

**Longitude:** 109 37 55.597452 W

**Ellipsoid Height:** 1593.519 Meters

## GS0083



**Point ID:** GS0083

**Northing:** 4081376.129 Meters

**Easting:** 621943.725 Meters

**Orthometric Height:** 1613.175 Meters

**Latitude:** 36 52 13.663087 N

**Longitude:** 109 37 54.593400 W

**Ellipsoid Height:** 1592.278 Meters

**GS0084**



**Point ID:** GS0084

**Northing:** 4081356.973 Meters

**Easting:** 621929.85 Meters

**Orthometric Height:** 1613.23 Meters

**Latitude:** 36 52 13.048031 N

**Longitude:** 109 37 55.164738 W

**Ellipsoid Height:** 1592.333 Meters

## GS0085



**Point ID:** GS0085

**Northing:** 4081405.642 Meters

**Easting:** 621937.794 Meters

**Orthometric Height:** 1613.396 Meters

**Latitude:** 36 52 14.623331 N

**Longitude:** 109 37 54.815830 W

**Ellipsoid Height:** 1592.499 Meters

## GS0089



**Point ID:** GS0089

**Northing:** 4056562.989 Meters

**Easting:** 614055.21 Meters

**Orthometric Height:** 1668.61 Meters

**Latitude:** 36 38 52.145564 N

**Longitude:** 109 43 26.498940 W

**Ellipsoid Height:** 1647.919 Meters

**GS0093**



**Point ID:** GS0093

**Northing:** 4052178.98 Meters

**Easting:** 616569.452 Meters

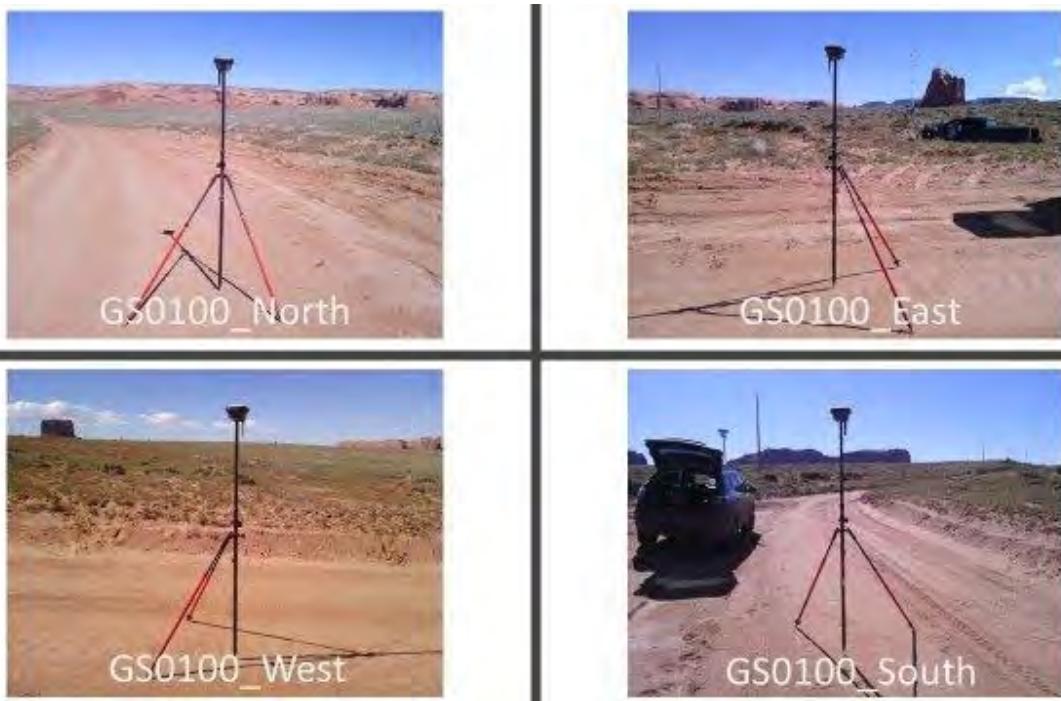
**Orthometric Height:** 1621.04 Meters

**Latitude:** 36 36 28.807441 N

**Longitude:** 109 41 47.659217 W

**Ellipsoid Height:** 1600.404 Meters

## GS0100



**Point ID:** GS0100

**Northing:** 4052973.255 Meters

**Easting:** 645668.958 Meters

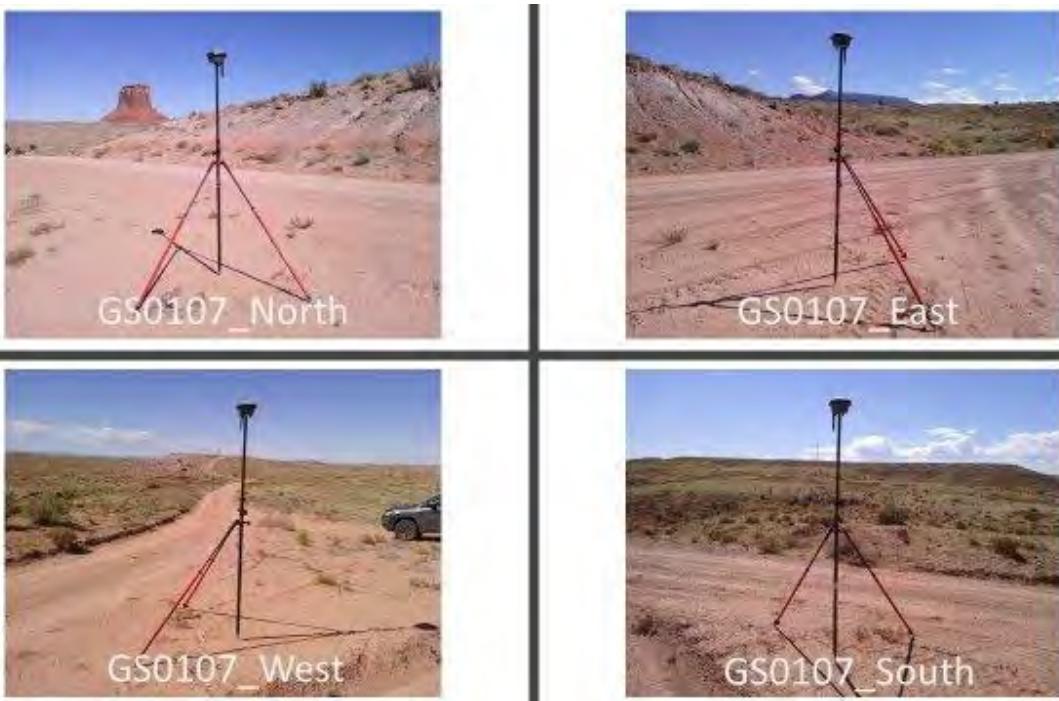
**Orthometric Height:** 1771.786 Meters

**Latitude:** 36 36 40.166255 N

**Longitude:** 109 22 16.142994 W

**Ellipsoid Height:** 1751.531 Meters

## GS0107



**Point ID:** GS0107

**Northing:** 4048905.769 Meters

**Easting:** 642987.852 Meters

**Orthometric Height:** 1767.679 Meters

**Latitude:** 36 34 29.672377 N

**Longitude:** 109 24 06.753922 W

**Ellipsoid Height:** 1747.382 Meters

## GS0111



**Point ID:** GS0111

**Northing:** 4035538.702 Meters

**Easting:** 645614.881 Meters

**Orthometric Height:** 1802.345 Meters

**Latitude:** 36 27 14.594897 N

**Longitude:** 109 22 30.166531 W

**Ellipsoid Height:** 1782.397 Meters

## GS0122



**Point ID:** GS0122

**Northing:** 4019942.16 Meters

**Easting:** 660097.67 Meters

**Orthometric Height:** 2149.629 Meters

**Latitude:** 36 18 40.337269 N

**Longitude:** 109 13 00.154565 W

**Ellipsoid Height:** 2130.316 Meters

## GS0133



**Point ID:** GS0133

**Northing:** 4005497.268 Meters

**Easting:** 640178.995 Meters

**Orthometric Height:** 1969.418 Meters

**Latitude:** 36 11 02.860506 N

**Longitude:** 109 26 27.916387 W

**Ellipsoid Height:** 1949.556 Meters

**GS0137**



**Point ID:** GS0137

**Northing:** 4003939.019 Meters

**Easting:** 633124.559 Meters

**Orthometric Height:** 1782.532 Meters

**Latitude:** 36 10 15.887177 N

**Longitude:** 109 31 11.205755 W

**Ellipsoid Height:** 1762.442 Meters

## GS0144



GS0144\_North



GS0144\_East



GS0144\_West



GS0144\_South

**Point ID:** GS0144

**Northing:** 3925333.281 Meters

**Easting:** 606126.055 Meters

**Orthometric Height:** 1819.007 Meters

**Latitude:** 35 27 57.016770 N

**Longitude:** 109 49 49.278003 W

**Ellipsoid Height:** 1796.869 Meters

**GS0147**



**Point ID:** GS0147

**Northing:** 3925950.796 Meters

**Easting:** 619323.338 Meters

**Orthometric Height:** 1950.083 Meters

**Latitude:** 35 28 11.667162 N

**Longitude:** 109 41 05.444667 W

**Ellipsoid Height:** 1928.086 Meters

## GS0150



**Point ID:** GS0150

**Northing:** 3924479.945 Meters

**Easting:** 613460.572 Meters

**Orthometric Height:** 1897.55 Meters

**Latitude:** 35 27 26.406673 N

**Longitude:** 109 44 58.757765 W

**Ellipsoid Height:** 1875.432 Meters

## GS0151



GS0151\_North



GS0151\_East



GS0151\_West



GS0151\_South

**Point ID:** GS0151

**Northing:** 3924482.432 Meters

**Easting:** 613430.685 Meters

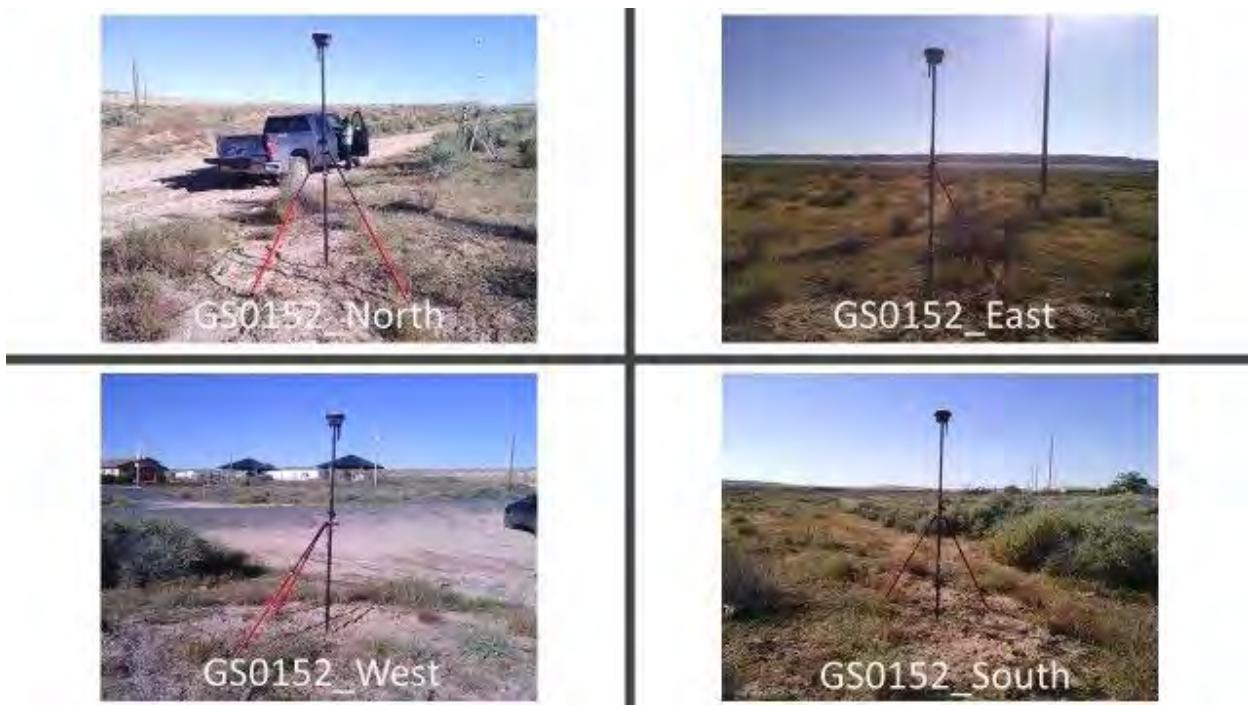
**Orthometric Height:** 1897.446 Meters

**Latitude:** 35 27 26.499651 N

**Longitude:** 109 44 59.941947 W

**Ellipsoid Height:** 1875.328 Meters

**GS0152**



**Point ID:** GS0152

**Northing:** 3932319.771 Meters

**Easting:** 604171.294 Meters

**Orthometric Height:** 1805.913 Meters

**Latitude:** 35 31 44.497944 N

**Longitude:** 109 51 03.594485 W

**Ellipsoid Height:** 1784.06 Meters

## GS0155



**Point ID:** GS0155

**Northing:** 3926544.334 Meters

**Easting:** 604739.488 Meters

**Orthometric Height:** 1795.368 Meters

**Latitude:** 35 28 36.849439 N

**Longitude:** 109 50 43.720409 W

**Ellipsoid Height:** 1773.279 Meters

## GS0163



**Point ID:** GS0163

**Northing:** 3945558.442 Meters

**Easting:** 624679.156 Meters

**Orthometric Height:** 1991.267 Meters

**Latitude:** 35 38 45.575950 N

**Longitude:** 109 37 22.114063 W

**Ellipsoid Height:** 1970.055 Meters

## GS0168



**Point ID:** GS0168

**Northing:** 3964355.752 Meters

**Easting:** 651207.185 Meters

**Orthometric Height:** 2222.789 Meters

**Latitude:** 35 48 42.112461 N

**Longitude:** 109 19 34.841189 W

**Ellipsoid Height:** 2202.446 Meters

**GS0171**



**Point ID:** GS0171

**Northing:** 3967205.521 Meters

**Easting:** 653815.475 Meters

**Orthometric Height:** 2332.707 Meters

**Latitude:** 35 50 13.111035 N

**Longitude:** 109 17 48.974003 W

**Ellipsoid Height:** 2312.473 Meters

## GS0177



**Point ID:** GS0177

**Northing:** 3954041.899 Meters

**Easting:** 647575.159 Meters

**Orthometric Height:** 2182.734 Meters

**Latitude:** 35 43 09.465323 N

**Longitude:** 109 22 06.352861 W

**Ellipsoid Height:** 2162.09 Meters

## GS0184



**Point ID:** GS0184

**Northing:** 3963383.952 Meters

**Easting:** 625479.851 Meters

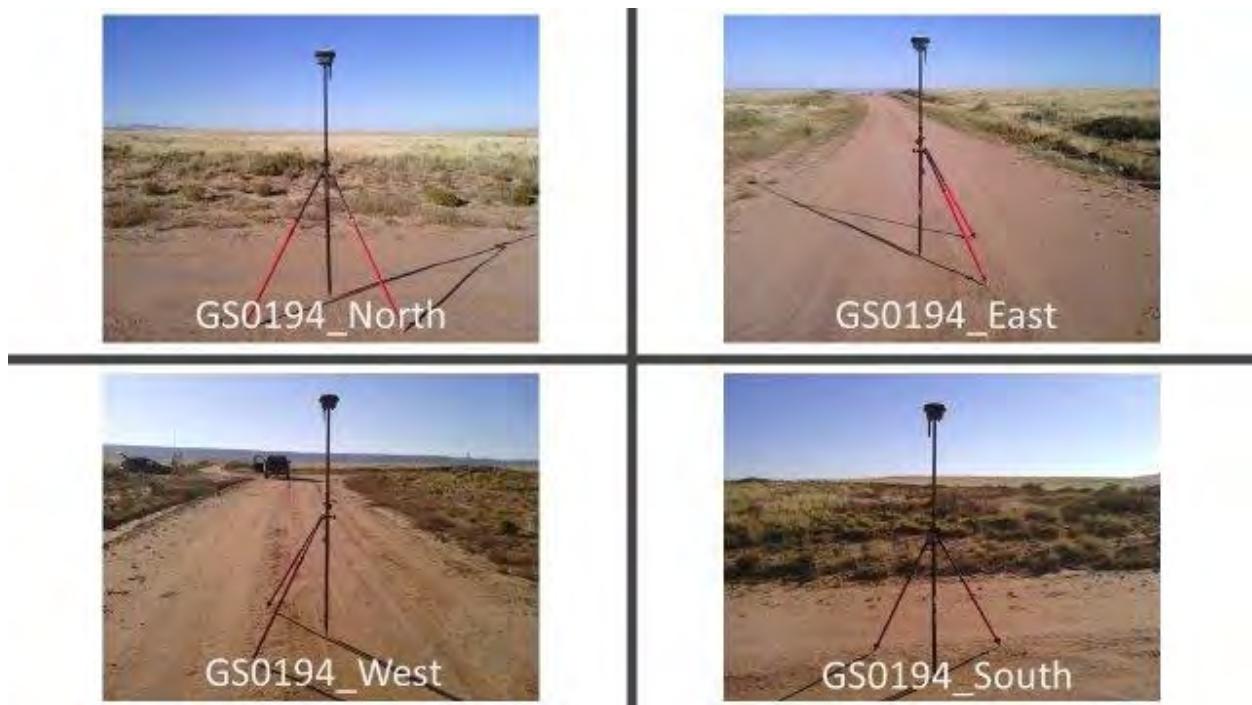
**Orthometric Height:** 1910.105 Meters

**Latitude:** 35 48 23.636741 N

**Longitude:** 109 36 40.250657 W

**Ellipsoid Height:** 1889.461 Meters

## GS0194



**Point ID:** GS0194

**Northing:** 3974626.969 Meters

**Easting:** 611856.819 Meters

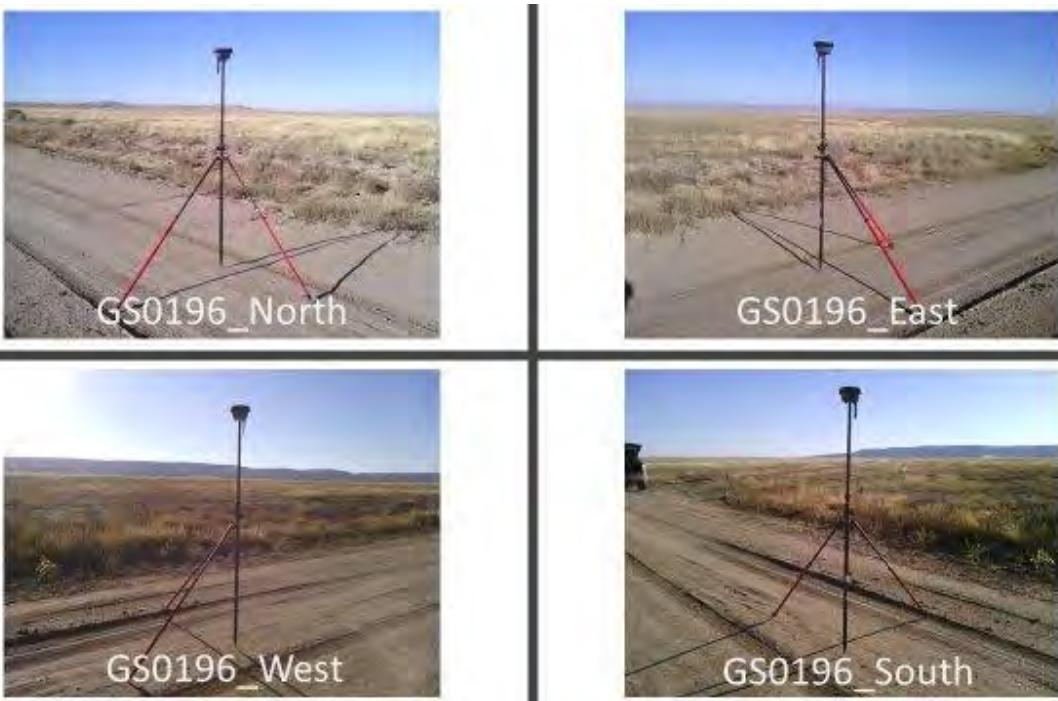
**Orthometric Height:** 1863.517 Meters

**Latitude:** 35 54 34.408893 N

**Longitude:** 109 45 37.262710 W

**Ellipsoid Height:** 1842.889 Meters

## GS0196



**Point ID:** GS0196

**Northing:** 3980265.579 Meters

**Easting:** 607991.422 Meters

**Orthometric Height:** 1874.057 Meters

**Latitude:** 35 57 38.949898 N

**Longitude:** 109 48 08.689786 W

**Ellipsoid Height:** 1853.513 Meters

## GS0202



**Point ID:** GS0202

**Northing:** 3885147.586 Meters

**Easting:** 653838.233 Meters

**Orthometric Height:** 1848.129 Meters

**Latitude:** 35 05 50.644432 N

**Longitude:** 109 18 43.966883 W

**Ellipsoid Height:** 1825.246 Meters

## GS0206



GS0206\_North



GS0206\_East



GS0206\_West



GS0206\_South

**Point ID:** GS0206

**Northing:** 3887238.433 Meters

**Easting:** 658364.664 Meters

**Orthometric Height:** 1889.309 Meters

**Latitude:** 35 06 55.961769 N

**Longitude:** 109 15 43.821551 W

**Ellipsoid Height:** 1866.579 Meters

## GS0214



**Point ID:** GS0214

**Northing:** 3895058.349 Meters

**Easting:** 642655.442 Meters

**Orthometric Height:** 1754.234 Meters

**Latitude:** 35 11 18.171712 N

**Longitude:** 109 25 59.331385 W

**Ellipsoid Height:** 1731.358 Meters

## GS0219



**Point ID:** GS0219

**Northing:** 3898539.356 Meters

**Easting:** 651396.637 Meters

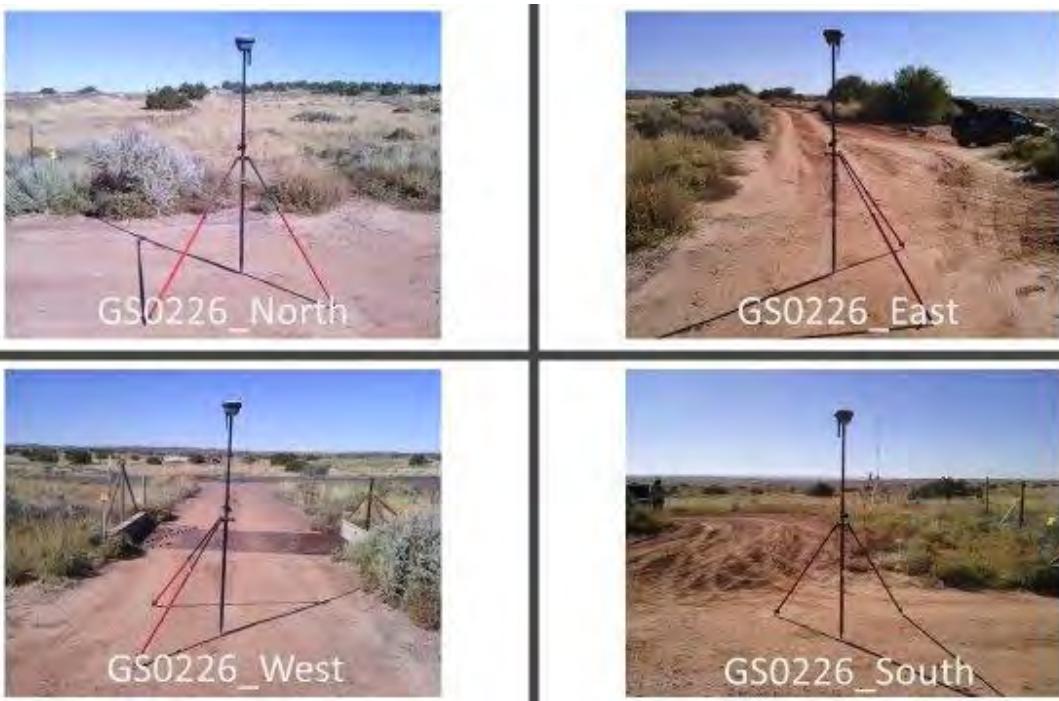
**Orthometric Height:** 1794.8 Meters

**Latitude:** 35 13 06.515401 N

**Longitude:** 109 20 11.522541 W

**Ellipsoid Height:** 1772.235 Meters

## GS0226



**Point ID:** GS0226

**Northing:** 3909384.527 Meters

**Easting:** 642572.187 Meters

**Orthometric Height:** 1912.761 Meters

**Latitude:** 35 19 03.088076 N

**Longitude:** 109 25 53.672828 W

**Ellipsoid Height:** 1890.412 Meters

## GS0230



**Point ID:** GS0230

**Northing:** 3907968.813 Meters

**Easting:** 649676.747 Meters

**Orthometric Height:** 1962.115 Meters

**Latitude:** 35 18 13.411417 N

**Longitude:** 109 21 13.341074 W

**Ellipsoid Height:** 1939.883 Meters

**GS0238**



**Point ID:** GS0238

**Northing:** 3906541.446 Meters

**Easting:** 621490.181 Meters

**Orthometric Height:** 1786.731 Meters

**Latitude:** 35 17 40.852293 N

**Longitude:** 109 39 49.887042 W

**Ellipsoid Height:** 1763.882 Meters

## GS0242



**Point ID:** GS0242

**Northing:** 3910437.268 Meters

**Easting:** 626391.492 Meters

**Orthometric Height:** 1803.555 Meters

**Latitude:** 35 19 45.090947 N

**Longitude:** 109 36 33.717466 W

**Ellipsoid Height:** 1780.913 Meters

## GS0250



**Point ID:** GS0250

**Northing:** 3921525.153 Meters

**Easting:** 634737.408 Meters

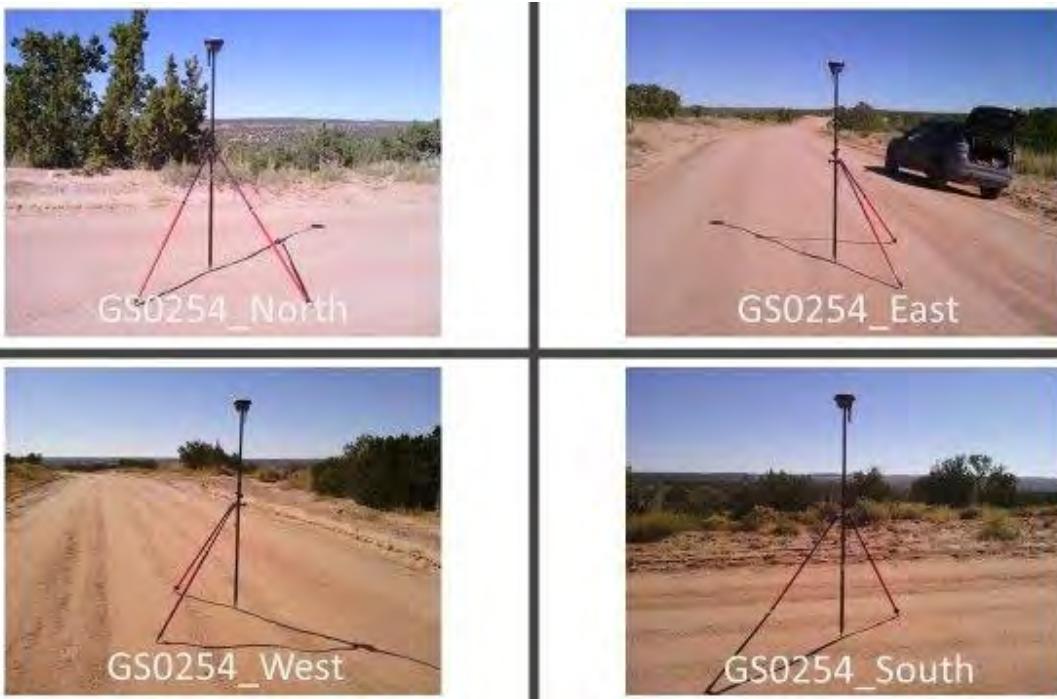
**Orthometric Height:** 1935.466 Meters

**Latitude:** 35 25 40.963674 N

**Longitude:** 109 30 56.650457 W

**Ellipsoid Height:** 1913.405 Meters

## GS0254



**Point ID:** GS0254

**Northing:** 3919603.695 Meters

**Easting:** 637179.731 Meters

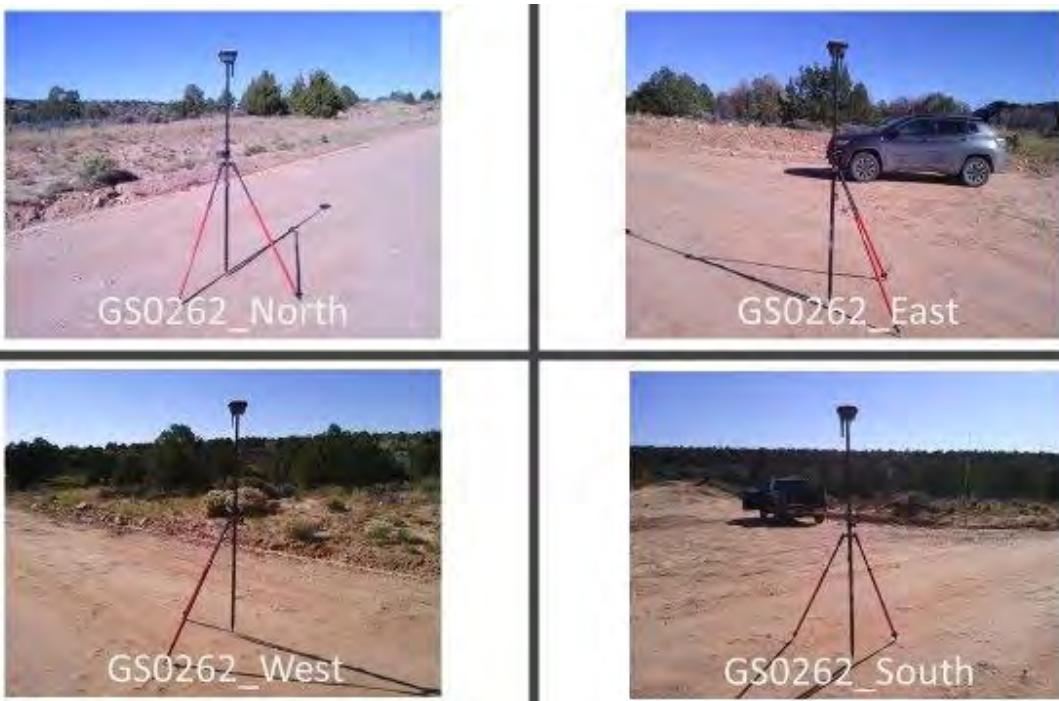
**Orthometric Height:** 1946.807 Meters

**Latitude:** 35 24 37.412698 N

**Longitude:** 109 29 20.988246 W

**Ellipsoid Height:** 1924.714 Meters

## GS0262



**Point ID:** GS0262

**Northing:** 3931106.623 Meters

**Easting:** 639473.668 Meters

**Orthometric Height:** 2054.145 Meters

**Latitude:** 35 30 49.519454 N

**Longitude:** 109 27 42.962968 W

**Ellipsoid Height:** 2032.605 Meters

## GS0266



**Point ID:** GS0266

**Northing:** 3932002.275 Meters

**Easting:** 644213.609 Meters

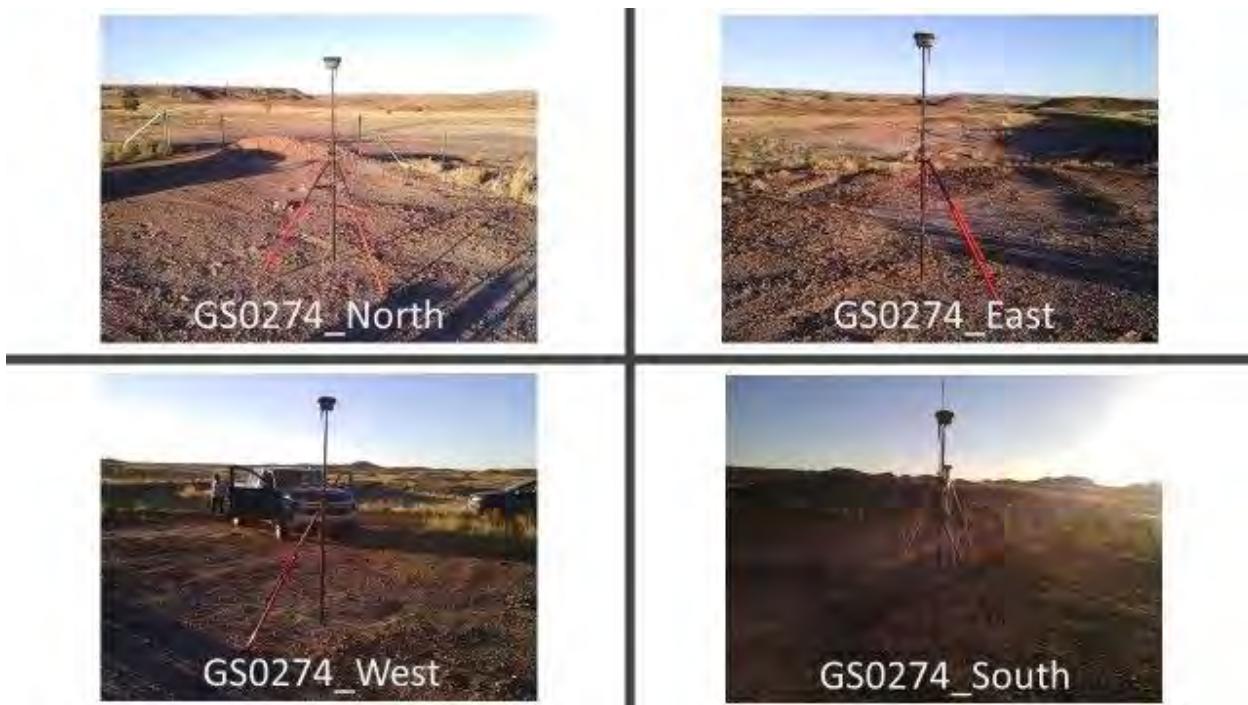
**Orthometric Height:** 2174.094 Meters

**Latitude:** 35 31 16.141403 N

**Longitude:** 109 24 34.279965 W

**Ellipsoid Height:** 2152.694 Meters

## GS0274



**Point ID:** GS0274

**Northing:** 3978391.321 Meters

**Easting:** 633970.134 Meters

**Orthometric Height:** 1800.7 Meters

**Latitude:** 35 56 26.543574 N

**Longitude:** 109 30 52.970638 W

**Ellipsoid Height:** 1780.419 Meters

**GS0278**



**Point ID:** GS0278

**Northing:** 3974906.894 Meters

**Easting:** 638818.551 Meters

**Orthometric Height:** 1914.122 Meters

**Latitude:** 35 54 31.050136 N

**Longitude:** 109 27 41.712434 W

**Ellipsoid Height:** 1893.804 Meters

## GS0281



GS0281\_North



GS0281\_East



GS0281\_West



GS0281\_South

**Point ID:** GS0281

**Northing:** 4007722.852 Meters

**Easting:** 615568.85 Meters

**Orthometric Height:** 1826.818 Meters

**Latitude:** 36 12 26.780412 N

**Longitude:** 109 42 51.758769 W

**Ellipsoid Height:** 1806.435 Meters

## GS0286



**Point ID:** GS0286

**Northing:** 4013213.211 Meters

**Easting:** 615037.999 Meters

**Orthometric Height:** 1714.534 Meters

**Latitude:** 36 15 25.159494 N

**Longitude:** 109 43 10.108895 W

**Ellipsoid Height:** 1694.121 Meters

## GS0294



**Point ID:** GS0294

**Northing:** 3992499.668 Meters

**Easting:** 611054.31 Meters

**Orthometric Height:** 1794.49 Meters

**Latitude:** 36 04 14.706013 N

**Longitude:** 109 46 00.254684 W

**Ellipsoid Height:** 1774.074 Meters

## GS0299



**Point ID:** GS0299

**Northing:** 3992164.456 Meters

**Easting:** 601362.894 Meters

**Orthometric Height:** 1848.299 Meters

**Latitude:** 36 04 07.640426 N

**Longitude:** 109 52 27.784035 W

**Ellipsoid Height:** 1827.838 Meters

## GS0308



**Point ID:** GS0308

**Northing:** 3989713.666 Meters

**Easting:** 647623.78 Meters

**Orthometric Height:** 2082.398 Meters

**Latitude:** 36 02 26.802078 N

**Longitude:** 109 21 40.621274 W

**Ellipsoid Height:** 2062.469 Meters

## GS0313



**Point ID:** GS0313

**Northing:** 3986323.523 Meters

**Easting:** 650196.108 Meters

**Orthometric Height:** 2142.503 Meters

**Latitude:** 36 00 35.397005 N

**Longitude:** 109 20 00.181530 W

**Ellipsoid Height:** 2122.548 Meters

## GS0001



**Point ID:** GS0001

**Northing:** 4024930.936 Meters

**Easting:** 621434.462 Meters

**Orthometric Height:** 1679.955 Meters

**Latitude:** 36 21 42.540411 N

**Longitude:** 109 38 47.279594 W

**Ellipsoid Height:** 1659.505 Meters

## GS0020



GS0020\_North



GS0020\_East



GS0020\_West



GS0020\_South

**Point ID:** GS0020

**Northing:** 4030096.388 Meters

**Easting:** 608342.962 Meters

**Orthometric Height:** 1795.49 Meters

**Latitude:** 36 24 35.779272 N

**Longitude:** 109 47 29.888686 W

**Ellipsoid Height:** 1775.018 Meters

**GS0023**



**Point ID:** GS0023

**Northing:** 4048319.846 Meters

**Easting:** 584091.755 Meters

**Orthometric Height:** 1706.969 Meters

**Latitude:** 36 34 35.886622 N

**Longitude:** 110 03 36.332607 W

**Ellipsoid Height:** 1686.49 Meters

## GS0038



**Point ID:** GS0038

**Northing:** 4048566.449 Meters

**Easting:** 547243.989 Meters

**Orthometric Height:** 1985.745 Meters

**Latitude:** 36 34 53.018628 N

**Longitude:** 110 28 18.871958 W

**Ellipsoid Height:** 1965.353 Meters

## GS0041



**Point ID:** GS0041

**Northing:** 4059435.962 Meters

**Easting:** 554584.303 Meters

**Orthometric Height:** 1839.919 Meters

**Latitude:** 36 40 44.347238 N

**Longitude:** 110 23 20.724734 W

**Ellipsoid Height:** 1819.613 Meters

## GS0049



**Point ID:** GS0049

**Northing:** 4065845.1 Meters

**Easting:** 580884.778 Meters

**Orthometric Height:** 1682.841 Meters

**Latitude:** 36 44 05.575075 N

**Longitude:** 110 05 38.703152 W

**Ellipsoid Height:** 1662.143 Meters

## GS0060



**Point ID:** GS0060

**Northing:** 4088864.096 Meters

**Easting:** 616272.76 Meters

**Orthometric Height:** 1480.754 Meters

**Latitude:** 36 56 19.178177 N

**Longitude:** 109 41 39.454457 W

**Ellipsoid Height:** 1459.792 Meters

## GS0067



**Point ID:** GS0067

**Northing:** 4089569.888 Meters

**Easting:** 656197.829 Meters

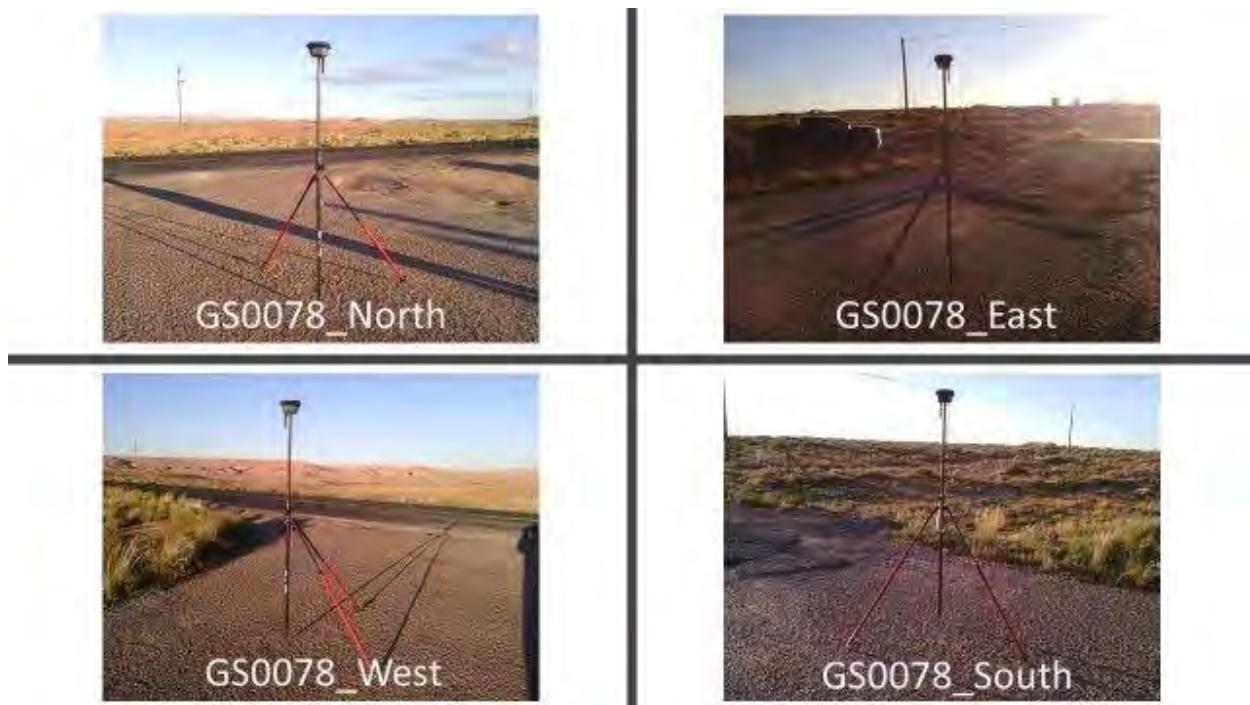
**Orthometric Height:** 1632.663 Meters

**Latitude:** 36 56 21.286069 N

**Longitude:** 109 14 45.483193 W

**Ellipsoid Height:** 1612.117 Meters

**GS0078**



**Point ID:** GS0078

**Northing:** 4072531.251 Meters

**Easting:** 620329.933 Meters

**Orthometric Height:** 1565.679 Meters

**Latitude:** 36 47 27.446529 N

**Longitude:** 109 39 04.799852 W

**Ellipsoid Height:** 1544.8 Meters

## GS0115



**Point ID:** GS0115

**Northing:** 4040598.425 Meters

**Easting:** 637780.142 Meters

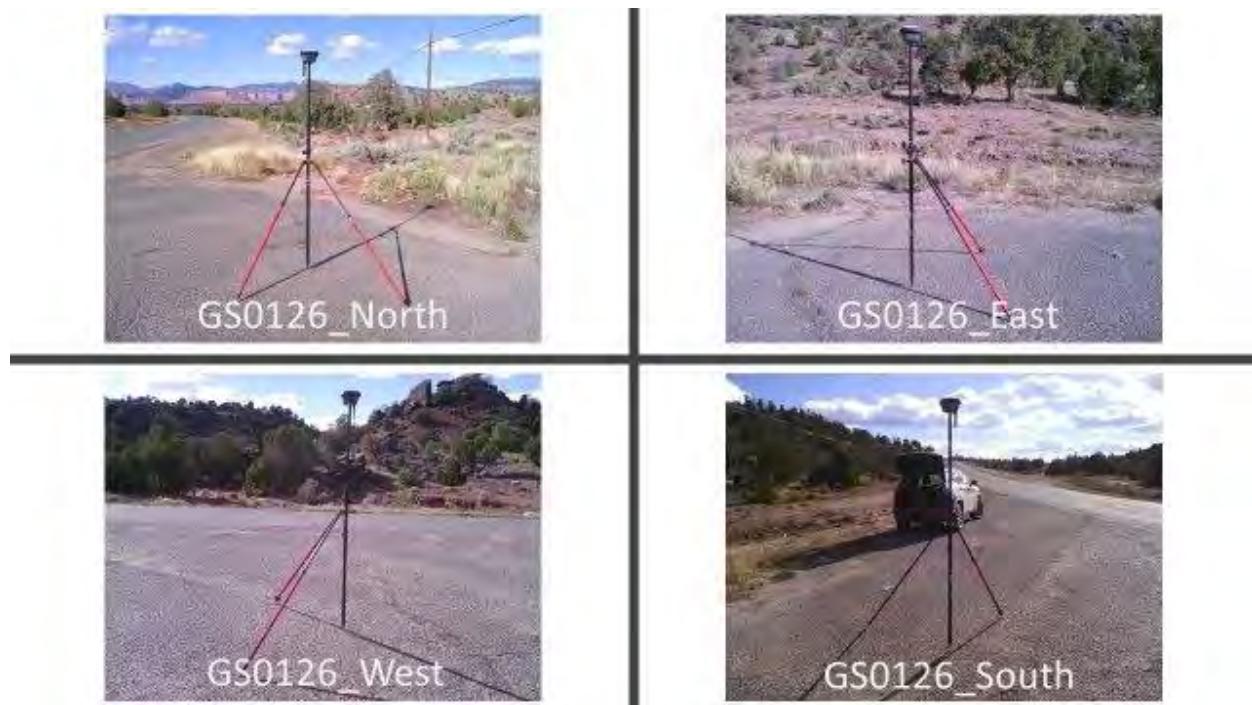
**Orthometric Height:** 1658.339 Meters

**Latitude:** 36 30 02.917056 N

**Longitude:** 109 27 41.564061 W

**Ellipsoid Height:** 1638.003 Meters

## GS0126



**Point ID:** GS0126

**Northing:** 4025974.463 Meters

**Easting:** 657190.057 Meters

**Orthometric Height:** 2022.86 Meters

**Latitude:** 36 21 57.750538 N

**Longitude:** 109 14 52.316110 W

**Ellipsoid Height:** 2003.459 Meters

## GS0160



**Point ID:** GS0160

**Northing:** 3946652.717 Meters

**Easting:** 617593.411 Meters

**Orthometric Height:** 1871.952 Meters

**Latitude:** 35 39 24.216210 N

**Longitude:** 109 42 03.238040 W

**Ellipsoid Height:** 1850.735 Meters

## GS0179



**Point ID:** GS0179

**Northing:** 3951668.08 Meters

**Easting:** 655898.704 Meters

**Orthometric Height:** 2283.214 Meters

**Latitude:** 35 41 47.831067 N

**Longitude:** 109 16 36.855830 W

**Ellipsoid Height:** 2262.633 Meters

**GS0187**



GS0187\_North



GS0187\_East



GS0187\_West



GS0187\_South

**Point ID:** GS0187

**Northing:** 3957672.514 Meters

**Easting:** 624229.19 Meters

**Orthometric Height:** 1937.604 Meters

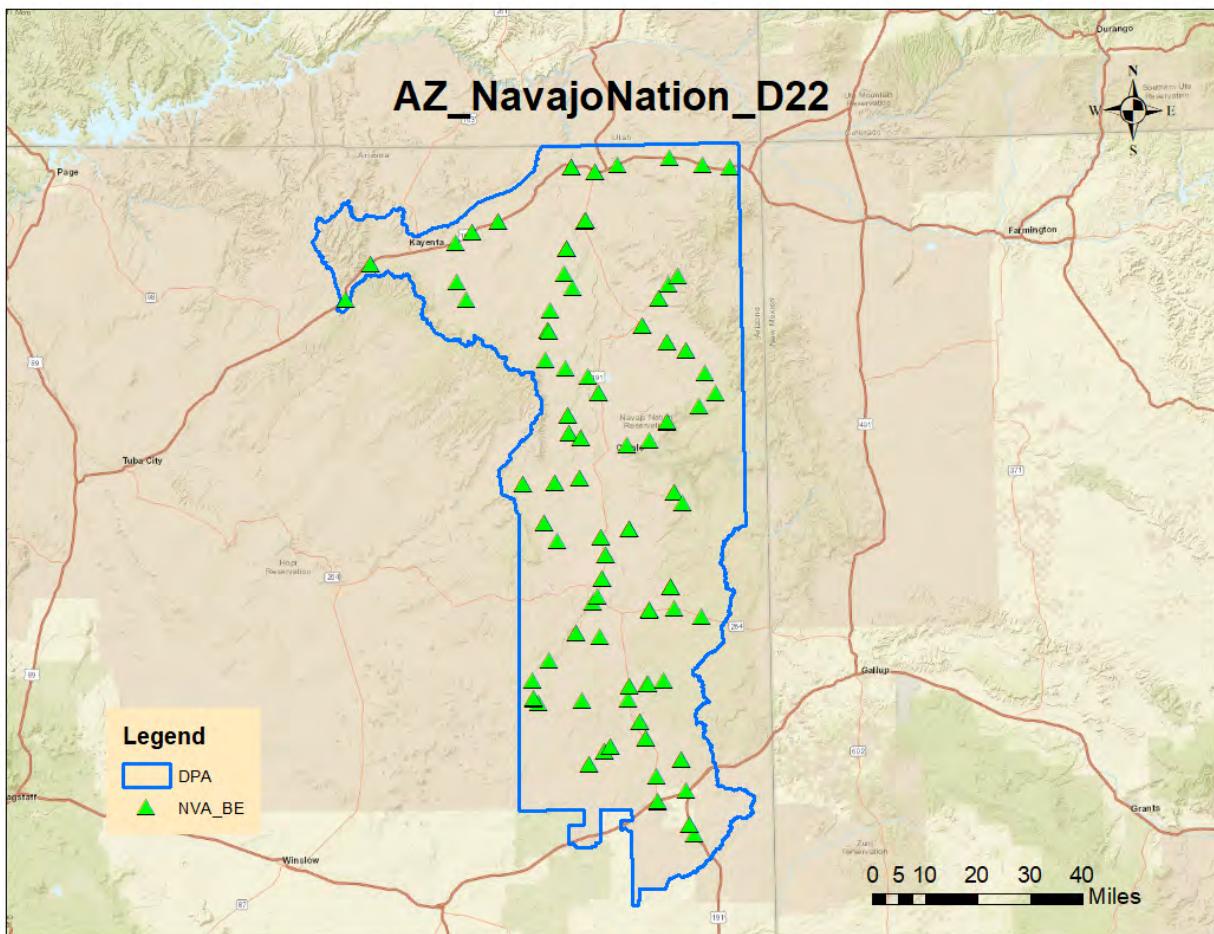
**Latitude:** 35 45 18.877814 N

**Longitude:** 109 37 33.261257 W

**Ellipsoid Height:** 1916.816 Meters

## Non-Vegetated Vertical Accuracy Checkpoints Bare Earth

The Map shows the overall distribution of the Non-Vegetated Vertical Accuracy Checkpoint, Bare Earth throughout the AOI. The following tables contain a list of the control using Easting, Northing, and Orthometric height. The coordinate system displayed is Universal Transverse Mercator UTM Zone 12, North American Datum 1983 (2011), North American Vertical Datum of 1988, Geoid 18 and using Meters for measurement.



**TABLE: Bare Earth**

Point ID	Easting	Northing	Ortho
GS0002	621410.154	4024941.86	1678.979
GS0007	624565.471	4019866.154	1627.431
GS0008	624529.422	4019879.145	1627.63
GS0010	614515.923	4027598.299	1720.054
GS0013	609117.531	4038936.88	1778.744
GS0014	609146.763	4038958.358	1778.359
GS0015	609153.543	4038900.766	1779.47
GS0018	609808.56	4045213.658	1709.512
GS0021	608340.812	4030070.551	1795.427
GS0026	584099.752	4048338.369	1706.588
GS0031	581096.094	4054044.425	1770.378
GS0039	547254.849	4048546.306	1986.199
GS0043	554602.12	4059389.046	1842.82
GS0044	554603.652	4059370.973	1843.233
GS0047	585828.534	4069135.716	1603.293
GS0048	585774.713	4069102.822	1603.281
GS0052	580841.651	4065862.773	1682.739
GS0054	593869.457	4072173.122	1571.132
GS0055	593837.853	4072152.371	1570.857
GS0057	623304.018	4087427.119	1511.843
GS0059	623283.492	4087384.023	1513.001
GS0061	616273.625	4088839.9	1480.721
GS0062	616269.72	4088816.143	1480.459
GS0063	616259.625	4088794.389	1480.584
GS0065	630373.453	4089664.762	1623.446
GS0068	656210.34	4089605.608	1631.819
GS0074	664791.647	4088850.112	1585.59
GS0077	646298.561	4091715.432	1651.613
GS0079	620368.13	4072533.426	1566.718
GS0080	620330.583	4072499.925	1565.301
GS0081	620353.595	4072566.146	1566.448
GS0091	614096.34	4056577.233	1669.53
GS0094	616586.493	4052194.227	1620.481
GS0097	614659.949	4063961.543	1632.026
GS0098	614683.509	4063947.773	1632.618
GS0099	614684.168	4063984.04	1631.733
GS0103	645710.42	4053001.701	1771.381
GS0105	648750.979	4055706.205	1772.151
GS0108	643003.057	4048887.742	1767.617
GS0109	643014.474	4048864.185	1767.943
GS0112	645596.056	4035529.669	1802.062
GS0113	645596.08	4035500.591	1802.662

<b>GS0116</b>	637755.205	4040584.631	1659.418
<b>GS0117</b>	637747.143	4040608.965	1658.719
<b>GS0119</b>	651324.666	4032974	1864.745
<b>GS0121</b>	651347.833	4033012.144	1865.811
<b>GS0125</b>	660108.742	4019909.194	2148.936
<b>GS0127</b>	657199.685	4025953.863	2022.876
<b>GS0131</b>	655096.045	4015795.543	2174.252
<b>GS0134</b>	640167.167	4005473.944	1969.31
<b>GS0140</b>	633160.131	4003976.88	1782.559
<b>GS0141</b>	645581.892	4011085.675	2077.927
<b>GS0143</b>	645603.691	4011093.785	2078.228
<b>GS0146</b>	606160.502	3925346.921	1819.077
<b>GS0149</b>	619309.981	3925917.757	1949.659
<b>GS0154</b>	604145.173	3932309.522	1805.994
<b>GS0156</b>	604760.598	3926533.182	1795.359
<b>GS0157</b>	604730.321	3926576.377	1794.842
<b>GS0158</b>	609487.36	3938132.412	1829.412
<b>GS0161</b>	617569.318	3946667.016	1871.456
<b>GS0162</b>	617543.735	3946673.576	1871.476
<b>GS0165</b>	624691.189	3945575.517	1990.82
<b>GS0166</b>	622877.746	3955832.625	1940.743
<b>GS0173</b>	646438.827	3960597.163	2162.402
<b>GS0174</b>	646452.331	3960616.645	2162.57
<b>GS0175</b>	646425.6	3960613.818	2162.386
<b>GS0178</b>	647549.912	3954047.118	2182.609
<b>GS0180</b>	655913.827	3951655.019	2283.014
<b>GS0182</b>	640095.648	3953645.809	2049.216
<b>GS0183</b>	640086.078	3953625.88	2049.14
<b>GS0185</b>	625502.584	3963382.462	1910.415
<b>GS0186</b>	625497.054	3963367.632	1910.957
<b>GS0189</b>	624188.083	3957710.353	1935.782
<b>GS0190</b>	626620.984	3970374.43	1949.339
<b>GS0192</b>	626634.964	3970331.238	1950.081
<b>GS0195</b>	611813.291	3974637.318	1864.251
<b>GS0197</b>	608007.443	3980241.148	1873.868
<b>GS0198</b>	608021.37	3980220.26	1873.649
<b>GS0200</b>	625401.55	3975829.499	1859.06
<b>GS0201</b>	625377.844	3975838.324	1859.271
<b>GS0203</b>	653853.475	3885170.444	1848.347
<b>GS0212</b>	652482.988	3888138.92	1888.615
<b>GS0213</b>	652468.063	3888129.221	1888.457
<b>GS0216</b>	642656.198	3895086.918	1754.308
<b>GS0217</b>	642652.704	3895115.483	1754.558
<b>GS0220</b>	651414.046	3898527.205	1794.818

<b>GS0225</b>	642138.668	3902721.316	1866.923
<b>GS0232</b>	649656.005	3907965.088	1961.937
<b>GS0233</b>	649633.674	3907961.909	1962.082
<b>GS0234</b>	638891.779	3914464.203	1924.374
<b>GS0237</b>	638886.729	3914482.112	1924.588
<b>GS0240</b>	621479.421	3906581.731	1787.071
<b>GS0241</b>	621474.183	3906533.833	1786.53
<b>GS0243</b>	626385.546	3910450.318	1804.566
<b>GS0245</b>	626418.36	3910454.556	1803.604
<b>GS0246</b>	628202.021	3912044.574	1816.337
<b>GS0247</b>	628217.704	3912063.637	1816.6
<b>GS0256</b>	637152.404	3919592.568	1946.467
<b>GS0257</b>	637132.292	3919583.291	1945.779
<b>GS0260</b>	633407.143	3926382.959	1998.016
<b>GS0263</b>	639489.433	3931116.756	2054.815
<b>GS0265</b>	639514.424	3931133.161	2056.223
<b>GS0267</b>	644233.297	3932011.819	2174.616
<b>GS0270</b>	634026.532	3930198.465	1958.387
<b>GS0271</b>	634047.251	3930201.649	1957.969
<b>GS0275</b>	633979.041	3978415.927	1799.809
<b>GS0276</b>	633996.581	3978430.182	1798.567
<b>GS0277</b>	634003.703	3978449.974	1798.284
<b>GS0282</b>	615556.17	4007704.071	1826.755
<b>GS0283</b>	615543.801	4007686.679	1826.762
<b>GS0287</b>	615027.656	4013192.993	1714.691
<b>GS0288</b>	615015.968	4013172.615	1714.744
<b>GS0290</b>	619050.031	4006367.934	1732.867
<b>GS0291</b>	619026.081	4006360.225	1733.128
<b>GS0295</b>	611024.202	3992504.389	1795.602
<b>GS0296</b>	611023.118	3992527.145	1795.548
<b>GS0300</b>	601380.278	3992161.075	1848.234
<b>GS0301</b>	601404.801	3992153.023	1848.42
<b>GS0304</b>	618611.889	3994051.111	1724.811
<b>GS0307</b>	618606.235	3994071.425	1724.711
<b>GS0309</b>	647649.863	3989716.425	2082.714
<b>GS0310</b>	647672.508	3989717.419	2082.871
<b>GS0314</b>	650200.963	3986348.181	2142.115

## GS0002



GS0002\_North



GS0002\_East



GS0002\_West



GS0002\_South

**Point ID:** GS0002

**Northing:** 4024941.86 Meters

**Easting:** 621410.154 Meters

**Orthometric Height:** 1678.979 Meters

**Latitude:** 36 21 42.905903 N

**Longitude:** 109 38 48.248574 W

**Ellipsoid Height:** 1658.529 Meters

## GS0007



**Point ID:** GS0007

**Northing:** 4019866.154 Meters

**Easting:** 624565.471 Meters

**Orthometric Height:** 1627.431 Meters

**Latitude:** 36 18 56.766956 N

**Longitude:** 109 36 44.592837 W

**Ellipsoid Height:** 1607.068 Meters

**GS0008**



GS0008\_North



GS0008\_East



GS0008\_West



GS0008\_South

**Point ID:** GS0008

**Northing:** 4019879.145 Meters

**Easting:** 624529.422 Meters

**Orthometric Height:** 1627.63 Meters

**Latitude:** 36 18 57.205262 N

**Longitude:** 109 36 46.030671 W

**Ellipsoid Height:** 1607.267 Meters

## GS0010



**Point ID:** GS0010

**Northing:** 4027598.299 Meters

**Easting:** 614515.923 Meters

**Orthometric Height:** 1720.054 Meters

**Latitude:** 36 23 12.144268 N

**Longitude:** 109 43 23.416626 W

**Ellipsoid Height:** 1699.553 Meters

**GS0013**



GS0013\_North



GS0013\_East



GS0013\_West



GS0013\_South

**Point ID:** GS0013

**Northing:** 4038936.88 Meters

**Easting:** 609117.531 Meters

**Orthometric Height:** 1778.744 Meters

**Latitude:** 36 29 22.316290 N

**Longitude:** 109 46 54.311357 W

**Ellipsoid Height:** 1758.257 Meters

## GS0014



**Point ID:** GS0014

**Northing:** 4038958.358 Meters

**Easting:** 609146.763 Meters

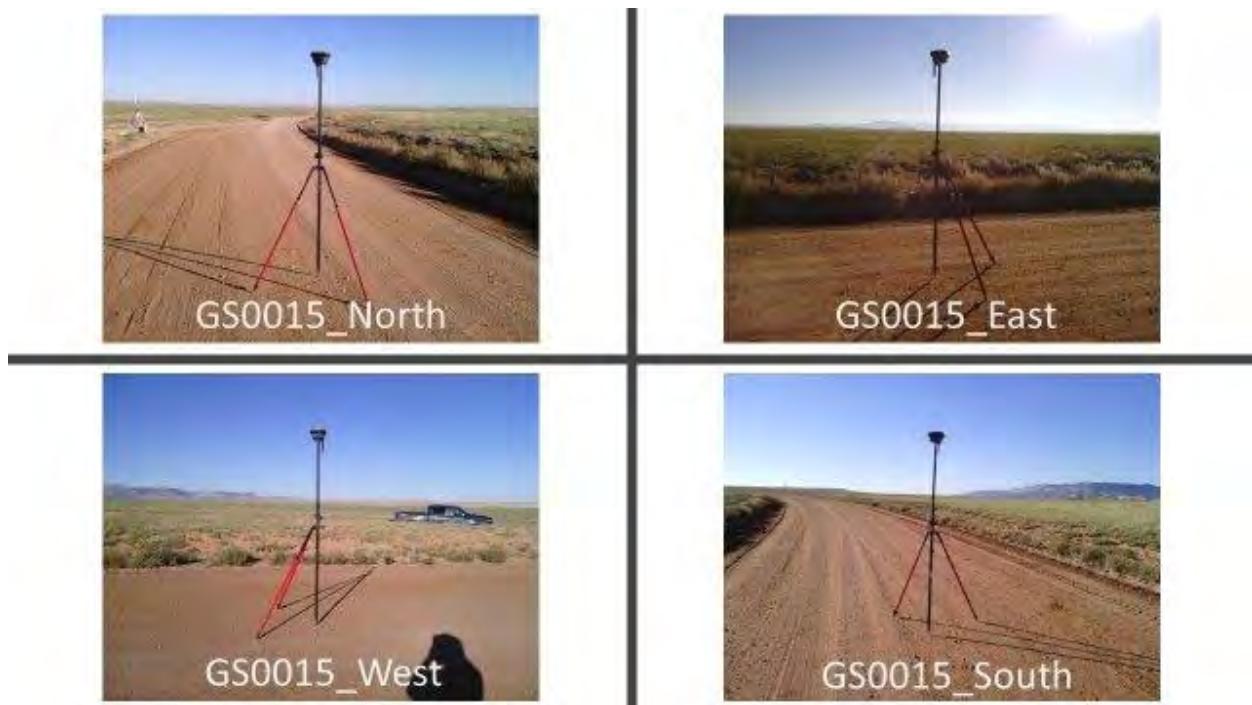
**Orthometric Height:** 1778.359 Meters

**Latitude:** 36 29 23.001186 N

**Longitude:** 109 46 53.125773 W

**Ellipsoid Height:** 1757.872 Meters

## GS0015



**Point ID:** GS0015

**Northing:** 4038900.766 Meters

**Easting:** 609153.543 Meters

**Orthometric Height:** 1779.47 Meters

**Latitude:** 36 29 21.129709 N

**Longitude:** 109 46 52.882598 W

**Ellipsoid Height:** 1758.983 Meters

## GS0018



**Point ID:** GS0018

**Northing:** 4045213.658 Meters

**Easting:** 609808.56 Meters

**Orthometric Height:** 1709.512 Meters

**Latitude:** 36 32 45.695242 N

**Longitude:** 109 46 23.328654 W

**Ellipsoid Height:** 1688.985 Meters

## GS0021



**Point ID:** GS0021

**Northing:** 4030070.551 Meters

**Easting:** 608340.812 Meters

**Orthometric Height:** 1795.427 Meters

**Latitude:** 36 24 34.941795 N

**Longitude:** 109 47 29.988000 W

**Ellipsoid Height:** 1774.955 Meters

## GS0026



**Point ID:** GS0026

**Northing:** 4048338.369 Meters

**Easting:** 584099.752 Meters

**Orthometric Height:** 1706.588 Meters

**Latitude:** 36 34 36.485141 N

**Longitude:** 110 03 36.003572 W

**Ellipsoid Height:** 1686.108 Meters

## GS0031



**Point ID:** GS0031

**Northing:** 4054044.425 Meters

**Easting:** 581096.094 Meters

**Orthometric Height:** 1770.378 Meters

**Latitude:** 36 37 42.582892 N

**Longitude:** 110 05 34.683257 W

**Ellipsoid Height:** 1749.887 Meters

## GS0039



**Point ID:** GS0039

**Northing:** 4048546.306 Meters

**Easting:** 547254.849 Meters

**Orthometric Height:** 1986.199 Meters

**Latitude:** 36 34 52.363007 N

**Longitude:** 110 28 18.439416 W

**Ellipsoid Height:** 1965.807 Meters

## GS0043



**Point ID:** GS0043

**Northing:** 4059389.046 Meters

**Easting:** 554602.12 Meters

**Orthometric Height:** 1842.82 Meters

**Latitude:** 36 40 42.821058 N

**Longitude:** 110 23 20.018930 W

**Ellipsoid Height:** 1822.515 Meters

## GS0044



GS0044\_North



GS0044\_East



GS0044\_West



GS0044\_South

**Point ID:** GS0044

**Northing:** 4059370.973 Meters

**Easting:** 554603.652 Meters

**Orthometric Height:** 1843.233 Meters

**Latitude:** 36 40 42.234224 N

**Longitude:** 110 23 19.961864 W

**Ellipsoid Height:** 1822.928 Meters

**GS0047**



**Point ID:** GS0047

**Northing:** 4069135.716 Meters

**Easting:** 585828.534 Meters

**Orthometric Height:** 1603.293 Meters

**Latitude:** 36 45 50.787818 N

**Longitude:** 110 02 18.061958 W

**Ellipsoid Height:** 1582.484 Meters

## GS0048



**Point ID:** GS0048

**Northing:** 4069102.822 Meters

**Easting:** 585774.713 Meters

**Orthometric Height:** 1603.281 Meters

**Latitude:** 36 45 49.738016 N

**Longitude:** 110 02 20.245889 W

**Ellipsoid Height:** 1582.473 Meters

## GS0052



**Point ID:** GS0052

**Northing:** 4065862.773 Meters

**Easting:** 580841.651 Meters

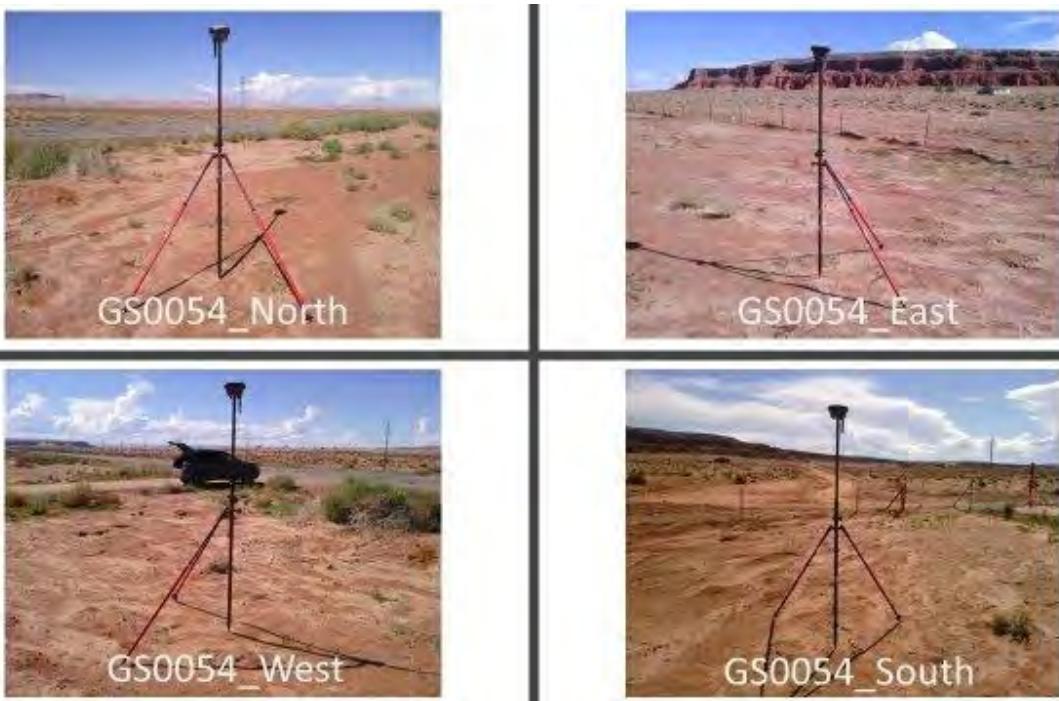
**Orthometric Height:** 1682.739 Meters

**Latitude:** 36 44 06.161781 N

**Longitude:** 110 05 40.435112 W

**Ellipsoid Height:** 1662.041 Meters

## GS0054



**Point ID:** GS0054

**Northing:** 4072173.122 Meters

**Easting:** 593869.457 Meters

**Orthometric Height:** 1571.132 Meters

**Latitude:** 36 47 26.600585 N

**Longitude:** 109 56 52.427782 W

**Ellipsoid Height:** 1550.204 Meters

## GS0055



**Point ID:** GS0055

**Northing:** 4072152.371 Meters

**Easting:** 593837.853 Meters

**Orthometric Height:** 1570.857 Meters

**Latitude:** 36 47 25.938529 N

**Longitude:** 109 56 53.712022 W

**Ellipsoid Height:** 1549.929 Meters

## GS0057



**Point ID:** GS0057

**Northing:** 4087427.119 Meters

**Easting:** 623304.018 Meters

**Orthometric Height:** 1511.843 Meters

**Latitude:** 36 55 29.339476 N

**Longitude:** 109 36 56.119250 W

**Ellipsoid Height:** 1490.941 Meters

## GS0059



**Point ID:** GS0059

**Northing:** 4087384.023 Meters

**Easting:** 623283.492 Meters

**Orthometric Height:** 1513.001 Meters

**Latitude:** 36 55 27.951007 N

**Longitude:** 109 36 56.973950 W

**Ellipsoid Height:** 1492.099 Meters

## GS0061



**Point ID:** GS0061

**Northing:** 4088839.9 Meters

**Easting:** 616273.625 Meters

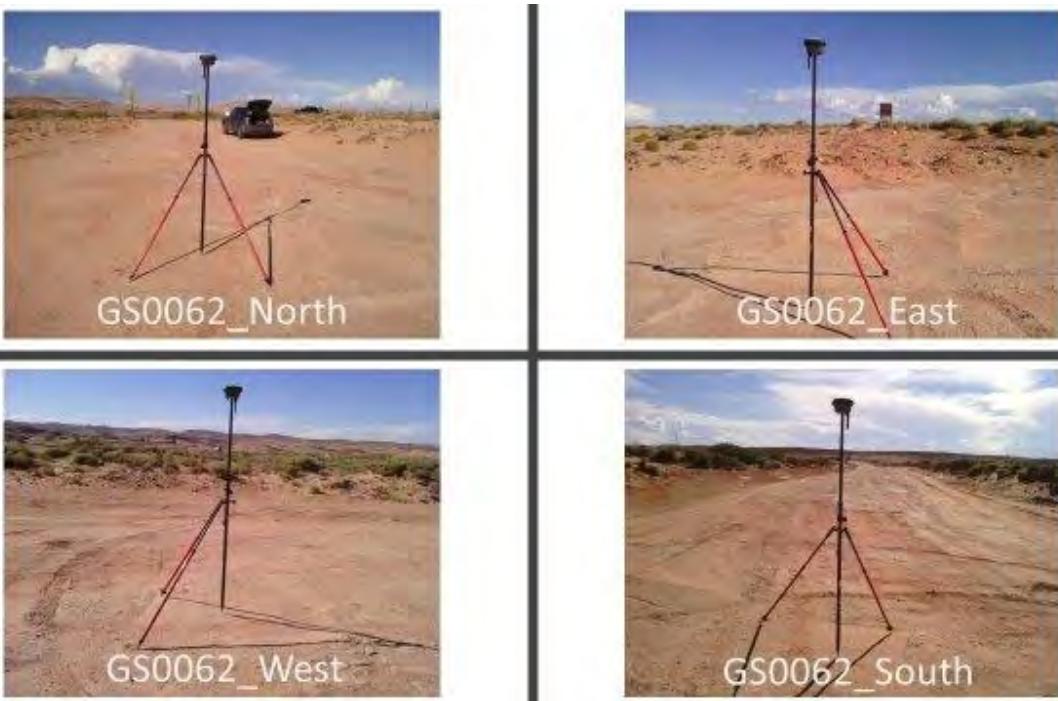
**Orthometric Height:** 1480.721 Meters

**Latitude:** 36 56 18.392797 N

**Longitude:** 109 41 39.432895 W

**Ellipsoid Height:** 1459.759 Meters

## GS0062



**Point ID:** GS0062

**Northing:** 4088816.143 Meters

**Easting:** 616269.72 Meters

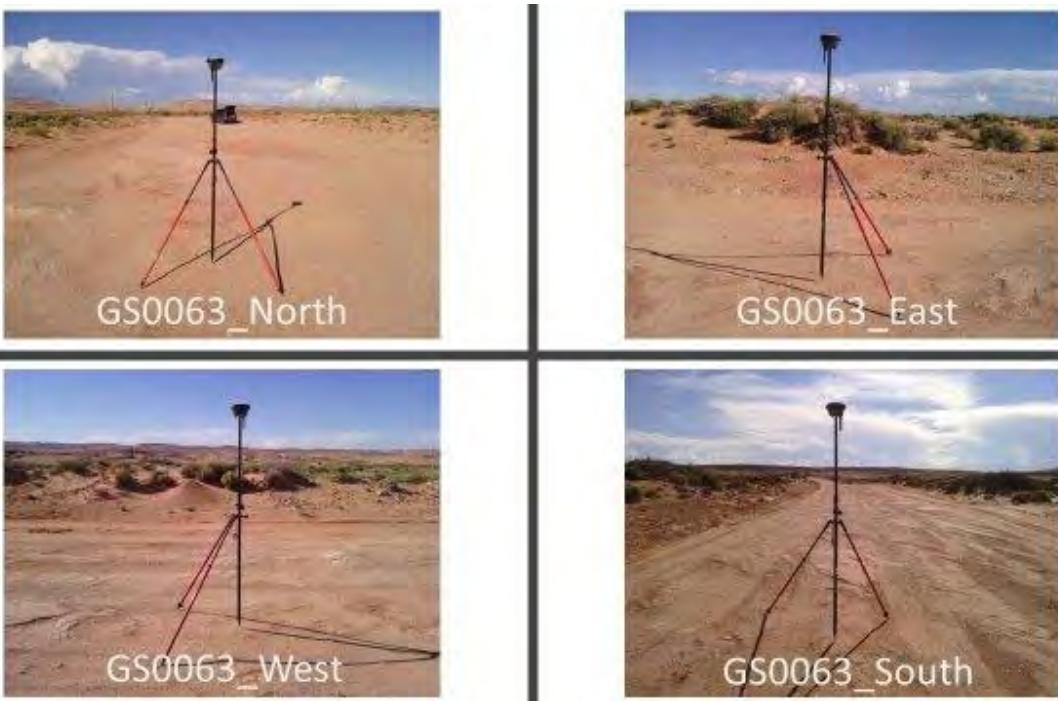
**Orthometric Height:** 1480.459 Meters

**Latitude:** 36 56 17.623744 N

**Longitude:** 109 41 39.603866 W

**Ellipsoid Height:** 1459.497 Meters

## GS0063



**Point ID:** GS0063

**Northing:** 4088794.389 Meters

**Easting:** 616259.625 Meters

**Orthometric Height:** 1480.584 Meters

**Latitude:** 36 56 16.922456 N

**Longitude:** 109 41 40.023929 W

**Ellipsoid Height:** 1459.622 Meters

## GS0065



**Point ID:** GS0065

**Northing:** 4089664.762 Meters

**Easting:** 630373.453 Meters

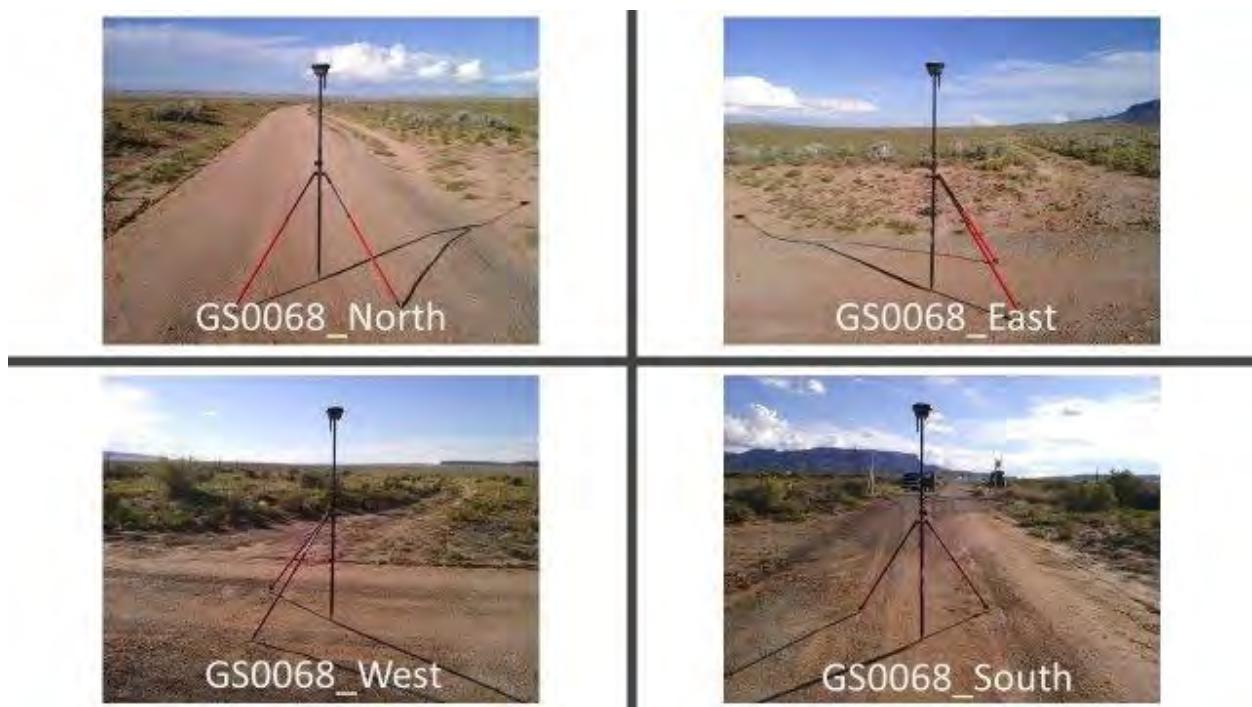
**Orthometric Height:** 1623.446 Meters

**Latitude:** 36 56 38.507068 N

**Longitude:** 109 32 09.070356 W

**Ellipsoid Height:** 1602.648 Meters

## GS0068



**Point ID:** GS0068

**Northing:** 4089605.608 Meters

**Easting:** 656210.34 Meters

**Orthometric Height:** 1631.819 Meters

**Latitude:** 36 56 22.437255 N

**Longitude:** 109 14 44.951072 W

**Ellipsoid Height:** 1611.273 Meters

## GS0074



GS0074\_North



GS0074\_East



GS0074\_West



GS0074\_South

**Point ID:** GS0074

**Northing:** 4088850.112 Meters

**Easting:** 664791.647 Meters

**Orthometric Height:** 1585.59 Meters

**Latitude:** 36 55 52.668821 N

**Longitude:** 109 08 58.791045 W

**Ellipsoid Height:** 1565.002 Meters

## GS0077



GS0077\_North



GS0077\_East



GS0077\_West



GS0077\_South

**Point ID:** GS0077

**Northing:** 4091715.432 Meters

**Easting:** 646298.561 Meters

**Orthometric Height:** 1651.613 Meters

**Latitude:** 36 57 36.607466 N

**Longitude:** 109 21 24.025026 W

**Ellipsoid Height:** 1631.012 Meters

## GS0079



GS0079\_North



GS0079\_East



GS0079\_West



GS0079\_South

**Point ID:** GS0079

**Northing:** 4072533.426 Meters

**Easting:** 620368.13 Meters

**Orthometric Height:** 1566.718 Meters

**Latitude:** 36 47 27.499605 N

**Longitude:** 109 39 03.257780 W

**Ellipsoid Height:** 1545.839 Meters

**GS0080**



**GS0080\_North**



**GS0080\_East**



**GS0080\_West**



**GS0080\_South**

**Point ID:** GS0080

**Northing:** 4072499.925 Meters

**Easting:** 620330.583 Meters

**Orthometric Height:** 1565.301 Meters

**Latitude:** 36 47 26.429873 N

**Longitude:** 109 39 04.791445 W

**Ellipsoid Height:** 1544.422 Meters

## GS0081



GS0081\_North



GS0081\_East



GS0081\_West



GS0081\_South

**Point ID:** GS0081

**Northing:** 4072566.146 Meters

**Easting:** 620353.595 Meters

**Orthometric Height:** 1566.448 Meters

**Latitude:** 36 47 28.567842 N

**Longitude:** 109 39 03.825523 W

**Ellipsoid Height:** 1545.569 Meters

## GS0091



**Point ID:** GS0091

**Northing:** 4056577.233 Meters

**Easting:** 614096.34 Meters

**Orthometric Height:** 1669.53 Meters

**Latitude:** 36 38 52.589994 N

**Longitude:** 109 43 24.835199 W

**Ellipsoid Height:** 1648.839 Meters

## GS0094



**Point ID:** GS0094

**Northing:** 4052194.227 Meters

**Easting:** 616586.493 Meters

**Orthometric Height:** 1620.481 Meters

**Latitude:** 36 36 29.294653 N

**Longitude:** 109 41 46.965077 W

**Ellipsoid Height:** 1599.845 Meters

**GS0097**



**Point ID:** GS0097

**Northing:** 4063961.543 Meters

**Easting:** 614659.949 Meters

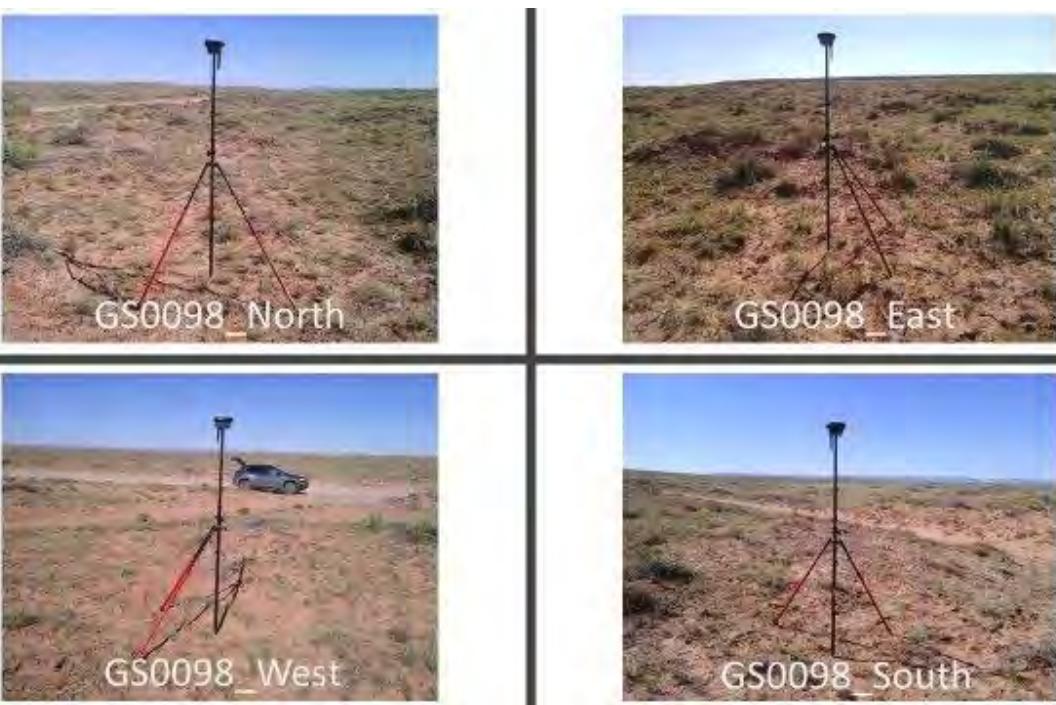
**Orthometric Height:** 1632.026 Meters

**Latitude:** 36 42 51.934033 N

**Longitude:** 109 42 58.160804 W

**Ellipsoid Height:** 1611.237 Meters

## GS0098



**Point ID:** GS0098

**Northing:** 4063947.773 Meters

**Easting:** 614683.509 Meters

**Orthometric Height:** 1632.618 Meters

**Latitude:** 36 42 51.476995 N

**Longitude:** 109 42 57.218774 W

**Ellipsoid Height:** 1611.829 Meters

## GS0099



**Point ID:** GS0099

**Northing:** 4063984.04 Meters

**Easting:** 614684.168 Meters

**Orthometric Height:** 1631.733 Meters

**Latitude:** 36 42 52.653414 N

**Longitude:** 109 42 57.172650 W

**Ellipsoid Height:** 1610.944 Meters

## GS0103



**Point ID:** GS0103

**Northing:** 4053001.701 Meters

**Easting:** 645710.42 Meters

**Orthometric Height:** 1771.381 Meters

**Latitude:** 36 36 41.066259 N

**Longitude:** 109 22 14.455125 W

**Ellipsoid Height:** 1751.127 Meters

## GS0105



**Point ID:** GS0105

**Northing:** 4055706.205 Meters

**Easting:** 648750.979 Meters

**Orthometric Height:** 1772.151 Meters

**Latitude:** 36 38 07.110393 N

**Longitude:** 109 20 10.218490 W

**Ellipsoid Height:** 1751.968 Meters

## GS0108



**Point ID:** GS0108

**Northing:** 4048887.742 Meters

**Easting:** 643003.057 Meters

**Orthometric Height:** 1767.617 Meters

**Latitude:** 36 34 29.079340 N

**Longitude:** 109 24 06.154408 W

**Ellipsoid Height:** 1747.321 Meters

## GS0109



**Point ID:** GS0109

**Northing:** 4048864.185 Meters

**Easting:** 643014.474 Meters

**Orthometric Height:** 1767.943 Meters

**Latitude:** 36 34 28.308963 N

**Longitude:** 109 24 05.710965 W

**Ellipsoid Height:** 1747.648 Meters

## GS0112



**Point ID:** GS0112

**Northing:** 4035529.669 Meters

**Easting:** 645596.056 Meters

**Orthometric Height:** 1802.062 Meters

**Latitude:** 36 27 14.312134 N

**Longitude:** 109 22 30.928633 W

**Ellipsoid Height:** 1782.114 Meters

## GS0113



**Point ID:** GS0113

**Northing:** 4035500.591 Meters

**Easting:** 645596.08 Meters

**Orthometric Height:** 1802.662 Meters

**Latitude:** 36 27 13.368795 N

**Longitude:** 109 22 30.947345 W

**Ellipsoid Height:** 1782.715 Meters

## GS0116



GS0116\_North



GS0116\_East



GS0116\_West



GS0116\_South

**Point ID:** GS0116

**Northing:** 4040584.631 Meters

**Easting:** 637755.205 Meters

**Orthometric Height:** 1659.418 Meters

**Latitude:** 36 30 02.482466 N

**Longitude:** 109 27 42.575009 W

**Ellipsoid Height:** 1639.082 Meters

## GS0117



**Point ID:** GS0117

**Northing:** 4040608.965 Meters

**Easting:** 637747.143 Meters

**Orthometric Height:** 1658.719 Meters

**Latitude:** 36 30 03.276124 N

**Longitude:** 109 27 42.883350 W

**Ellipsoid Height:** 1638.382 Meters

## GS0119



**Point ID:** GS0119

**Northing:** 4032974 Meters

**Easting:** 651324.666 Meters

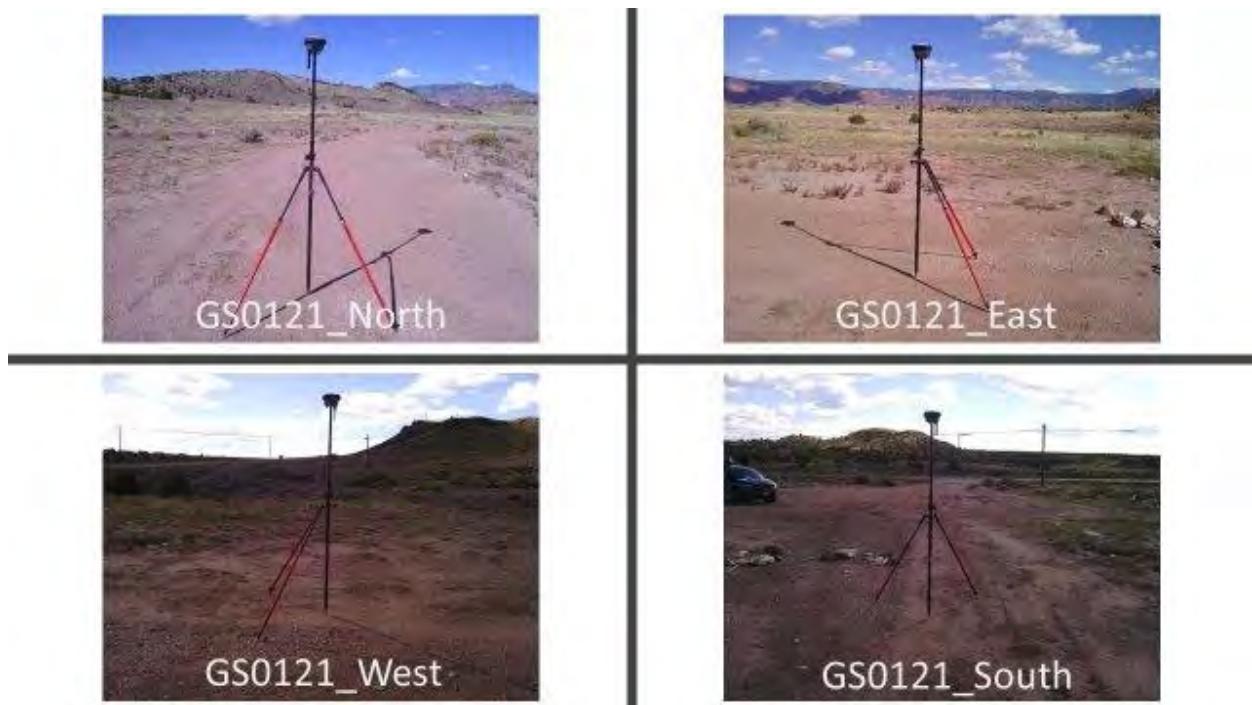
**Orthometric Height:** 1864.745 Meters

**Latitude:** 36 25 48.210282 N

**Longitude:** 109 18 42.676877 W

**Ellipsoid Height:** 1845.044 Meters

## GS0121



**Point ID:** GS0121

**Northing:** 4033012.144 Meters

**Easting:** 651347.833 Meters

**Orthometric Height:** 1865.811 Meters

**Latitude:** 36 25 49.434546 N

**Longitude:** 109 18 41.720027 W

**Ellipsoid Height:** 1846.11 Meters

## GS0125



**Point ID:** GS0125

**Northing:** 4019909.194 Meters

**Easting:** 660108.742 Meters

**Orthometric Height:** 2148.936 Meters

**Latitude:** 36 18 39.261233 N

**Longitude:** 109 12 59.735127 W

**Ellipsoid Height:** 2129.623 Meters

**GS0127**



**Point ID:** GS0127

**Northing:** 4025953.863 Meters

**Easting:** 657199.685 Meters

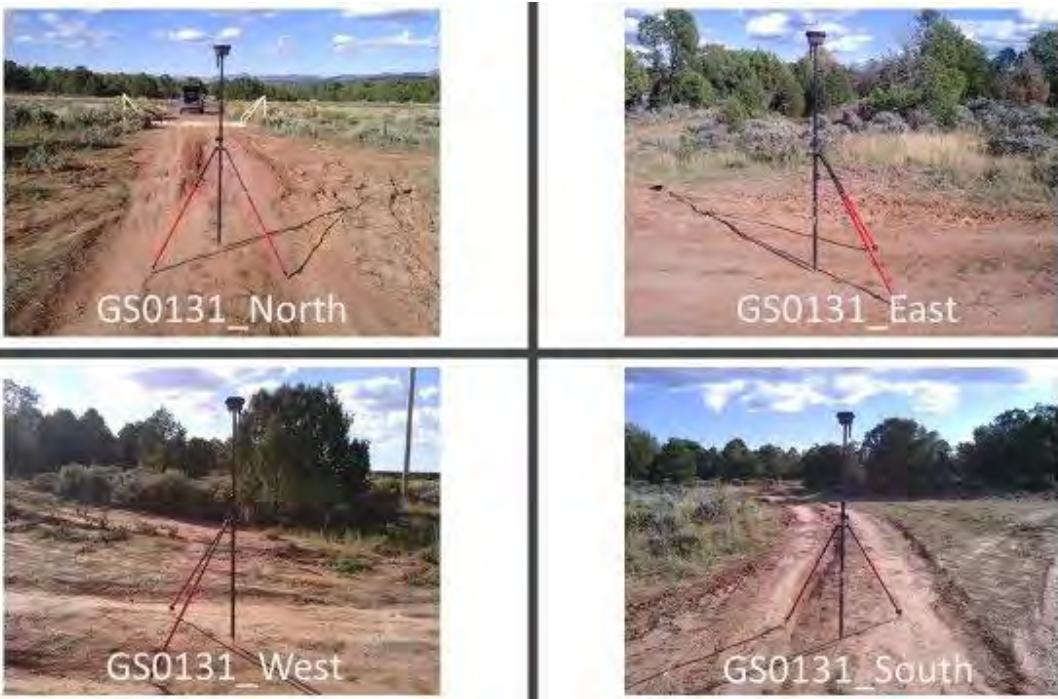
**Orthometric Height:** 2022.876 Meters

**Latitude:** 36 21 57.076604 N

**Longitude:** 109 14 51.944910 W

**Ellipsoid Height:** 2003.475 Meters

## GS0131



**Point ID:** GS0131

**Northing:** 4015795.543 Meters

**Easting:** 655096.045 Meters

**Orthometric Height:** 2174.252 Meters

**Latitude:** 36 16 28.761552 N

**Longitude:** 109 16 23.599893 W

**Ellipsoid Height:** 2154.87 Meters

## GS0134



GS0134\_North



GS0134\_East



GS0134\_West



GS0134\_South

**Point ID:** GS0134

**Northing:** 4005473.944 Meters

**Easting:** 640167.167 Meters

**Orthometric Height:** 1969.31 Meters

**Latitude:** 36 11 02.109929 N

**Longitude:** 109 26 28.404759 W

**Ellipsoid Height:** 1949.448 Meters

## GS0140



**Point ID:** GS0140

**Northing:** 4003976.88 Meters

**Easting:** 633160.131 Meters

**Orthometric Height:** 1782.559 Meters

**Latitude:** 36 10 17.098006 N

**Longitude:** 109 31 09.759165 W

**Ellipsoid Height:** 1762.47 Meters

## GS0141



GS0141\_North



GS0141\_East



GS0141\_West



GS0141\_South

**Point ID:** GS0141

**Northing:** 4011085.675 Meters

**Easting:** 645581.892 Meters

**Orthometric Height:** 2077.927 Meters

**Latitude:** 36 14 01.295959 N

**Longitude:** 109 22 47.950586 W

**Ellipsoid Height:** 2058.259 Meters

**GS0143**



GS0143\_North



GS0143\_East



GS0143\_West



GS0143\_South

**Point ID:** GS0143

**Northing:** 4011093.785 Meters

**Easting:** 645603.691 Meters

**Orthometric Height:** 2078.228 Meters

**Latitude:** 36 14 01.547277 N

**Longitude:** 109 22 47.072195 W

**Ellipsoid Height:** 2058.56 Meters

## GS0146



**Point ID:** GS0146

**Northing:** 3925346.921 Meters

**Easting:** 606160.502 Meters

**Orthometric Height:** 1819.077 Meters

**Latitude:** 35 27 57.446203 N

**Longitude:** 109 49 47.905094 W

**Ellipsoid Height:** 1796.94 Meters

## GS0149



**Point ID:** GS0149

**Northing:** 3925917.757 Meters

**Easting:** 619309.981 Meters

**Orthometric Height:** 1949.659 Meters

**Latitude:** 35 28 10.600767 N

**Longitude:** 109 41 05.991952 W

**Ellipsoid Height:** 1927.661 Meters

## GS0154



GS0154\_North



GS0154\_East



GS0154\_West



GS0154\_South

**Point ID:** GS0154

**Northing:** 3932309.522 Meters

**Easting:** 604145.173 Meters

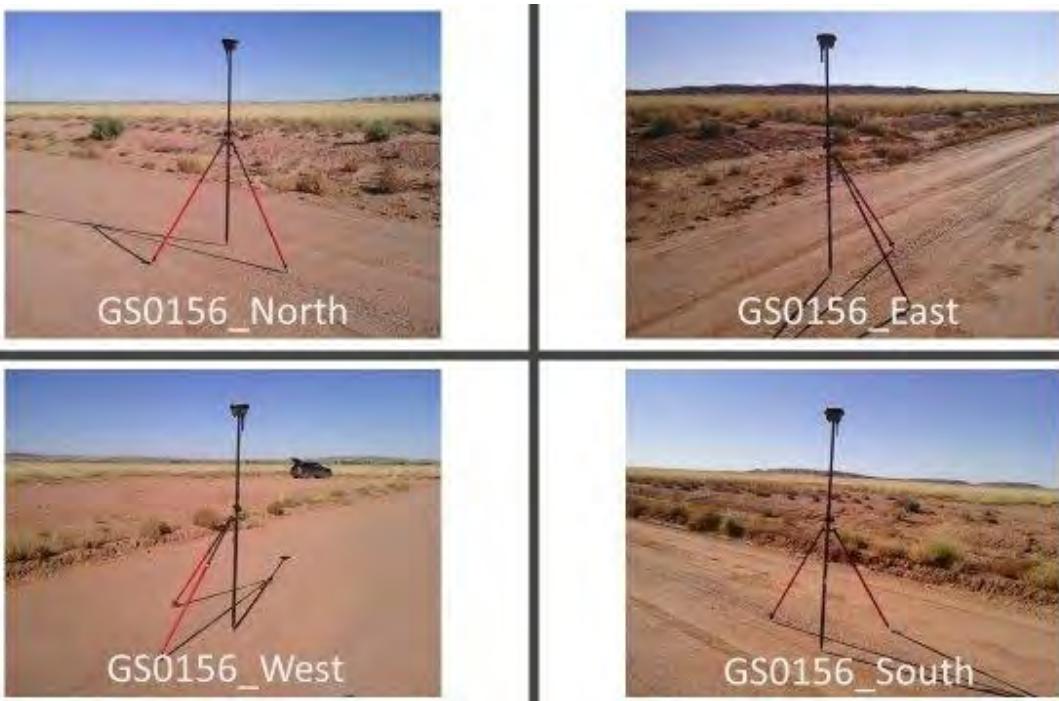
**Orthometric Height:** 1805.994 Meters

**Latitude:** 35 31 44.175203 N

**Longitude:** 109 51 04.636273 W

**Ellipsoid Height:** 1784.141 Meters

## GS0156



**Point ID:** GS0156

**Northing:** 3926533.182 Meters

**Easting:** 604760.598 Meters

**Orthometric Height:** 1795.359 Meters

**Latitude:** 35 28 36.479523 N

**Longitude:** 109 50 42.888064 W

**Ellipsoid Height:** 1773.27 Meters

**GS0157**



**Point ID:** GS0157

**Northing:** 3926576.377 Meters

**Easting:** 604730.321 Meters

**Orthometric Height:** 1794.842 Meters

**Latitude:** 35 28 37.892837 N

**Longitude:** 109 50 44.069255 W

**Ellipsoid Height:** 1772.754 Meters

**GS0158**



GS0158\_North



GS0158\_East



GS0158\_West



GS0158\_South

**Point ID:** GS0158

**Northing:** 3938132.412 Meters

**Easting:** 609487.36 Meters

**Orthometric Height:** 1829.412 Meters

**Latitude:** 35 34 51.071032 N

**Longitude:** 109 47 29.716085 W

**Ellipsoid Height:** 1807.812 Meters

## GS0161



**Point ID:** GS0161

**Northing:** 3946667.016 Meters

**Easting:** 617569.318 Meters

**Orthometric Height:** 1871.456 Meters

**Latitude:** 35 39 24.690551 N

**Longitude:** 109 42 04.188494 W

**Ellipsoid Height:** 1850.24 Meters

## GS0162



**Point ID:** GS0162

**Northing:** 3946673.576 Meters

**Easting:** 617543.735 Meters

**Orthometric Height:** 1871.476 Meters

**Latitude:** 35 39 24.914394 N

**Longitude:** 109 42 05.202258 W

**Ellipsoid Height:** 1850.26 Meters

## GS0165



**Point ID:** GS0165

**Northing:** 3945575.517 Meters

**Easting:** 624691.189 Meters

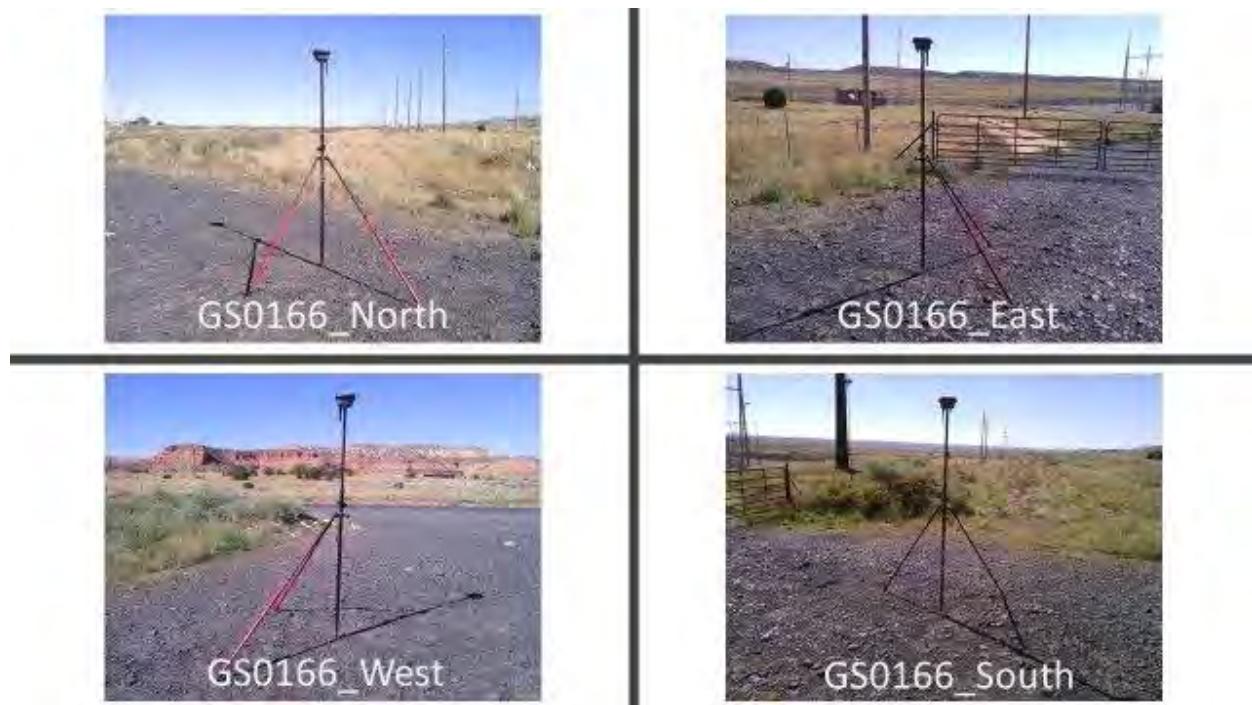
**Orthometric Height:** 1990.82 Meters

**Latitude:** 35 38 46.124567 N

**Longitude:** 109 37 21.626201 W

**Ellipsoid Height:** 1969.608 Meters

## GS0166



**Point ID:** GS0166

**Northing:** 3955832.625 Meters

**Easting:** 622877.746 Meters

**Orthometric Height:** 1940.743 Meters

**Latitude:** 35 44 19.785443 N

**Longitude:** 109 38 28.076413 W

**Ellipsoid Height:** 1919.893 Meters

## GS0173



**Point ID:** GS0173

**Northing:** 3960597.163 Meters

**Easting:** 646438.827 Meters

**Orthometric Height:** 2162.402 Meters

**Latitude:** 35 46 42.766573 N

**Longitude:** 109 22 47.253750 W

**Ellipsoid Height:** 2141.887 Meters

## GS0174



**Point ID:** GS0174

**Northing:** 3960616.645 Meters

**Easting:** 646452.331 Meters

**Orthometric Height:** 2162.57 Meters

**Latitude:** 35 46 43.391423 N

**Longitude:** 109 22 46.703261 W

**Ellipsoid Height:** 2142.056 Meters

## GS0175



**Point ID:** GS0175

**Northing:** 3960613.818 Meters

**Easting:** 646425.6 Meters

**Orthometric Height:** 2162.386 Meters

**Latitude:** 35 46 43.314035 N

**Longitude:** 109 22 47.769459 W

**Ellipsoid Height:** 2141.871 Meters

## GS0178



**Point ID:** GS0178

**Northing:** 3954047.118 Meters

**Easting:** 647549.912 Meters

**Orthometric Height:** 2182.609 Meters

**Latitude:** 35 43 09.648305 N

**Longitude:** 109 22 07.353896 W

**Ellipsoid Height:** 2161.964 Meters

## GS0180



**Point ID:** GS0180

**Northing:** 3951655.019 Meters

**Easting:** 655913.827 Meters

**Orthometric Height:** 2283.014 Meters

**Latitude:** 35 41 47.398676 N

**Longitude:** 109 16 36.263428 W

**Ellipsoid Height:** 2262.433 Meters

## GS0182



**Point ID:** GS0182

**Northing:** 3953645.809 Meters

**Easting:** 640095.648 Meters

**Orthometric Height:** 2049.216 Meters

**Latitude:** 35 43 00.546843 N

**Longitude:** 109 27 04.194010 W

**Ellipsoid Height:** 2028.407 Meters

## GS0183



**Point ID:** GS0183

**Northing:** 3953625.88 Meters

**Easting:** 640086.078 Meters

**Orthometric Height:** 2049.14 Meters

**Latitude:** 35 42 59.905096 N

**Longitude:** 109 27 04.587294 W

**Ellipsoid Height:** 2028.331 Meters

## GS0185



**Point ID:** GS0185

**Northing:** 3963382.462 Meters

**Easting:** 625502.584 Meters

**Orthometric Height:** 1910.415 Meters

**Latitude:** 35 48 23.577929 N

**Longitude:** 109 36 39.345937 W

**Ellipsoid Height:** 1889.771 Meters

## GS0186



**Point ID:** GS0186

**Northing:** 3963367.632 Meters

**Easting:** 625497.054 Meters

**Orthometric Height:** 1910.957 Meters

**Latitude:** 35 48 23.099272 N

**Longitude:** 109 36 39.574604 W

**Ellipsoid Height:** 1890.312 Meters

## GS0189



**Point ID:** GS0189

**Northing:** 3957710.353 Meters

**Easting:** 624188.083 Meters

**Orthometric Height:** 1935.782 Meters

**Latitude:** 35 45 20.124372 N

**Longitude:** 109 37 34.876578 W

**Ellipsoid Height:** 1914.995 Meters

## GS0190



**Point ID:** GS0190

**Northing:** 3970374.43 Meters

**Easting:** 626620.984 Meters

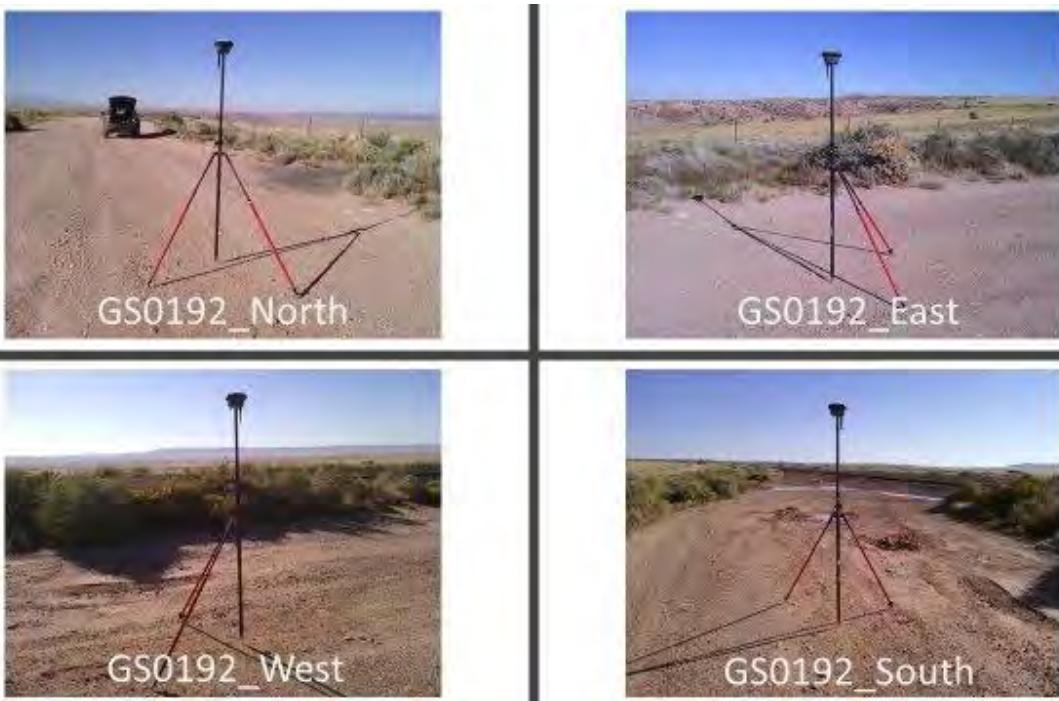
**Orthometric Height:** 1949.339 Meters

**Latitude:** 35 52 09.939909 N

**Longitude:** 109 35 50.802478 W

**Ellipsoid Height:** 1928.839 Meters

## GS0192



**Point ID:** GS0192

**Northing:** 3970331.238 Meters

**Easting:** 626634.964 Meters

**Orthometric Height:** 1950.081 Meters

**Latitude:** 35 52 08.531891 N

**Longitude:** 109 35 50.269868 W

**Ellipsoid Height:** 1929.581 Meters

## GS0195



**Point ID:** GS0195

**Northing:** 3974637.318 Meters

**Easting:** 611813.291 Meters

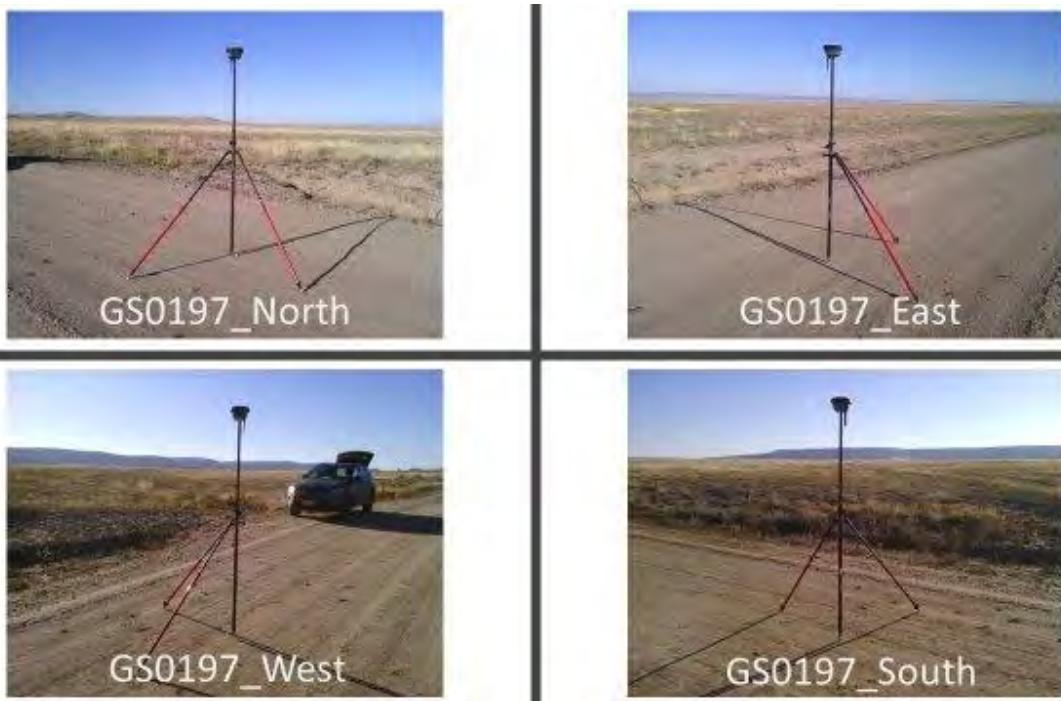
**Orthometric Height:** 1864.251 Meters

**Latitude:** 35 54 34.762636 N

**Longitude:** 109 45 38.993724 W

**Ellipsoid Height:** 1843.623 Meters

## GS0197



**Point ID:** GS0197

**Northing:** 3980241.148 Meters

**Easting:** 608007.443 Meters

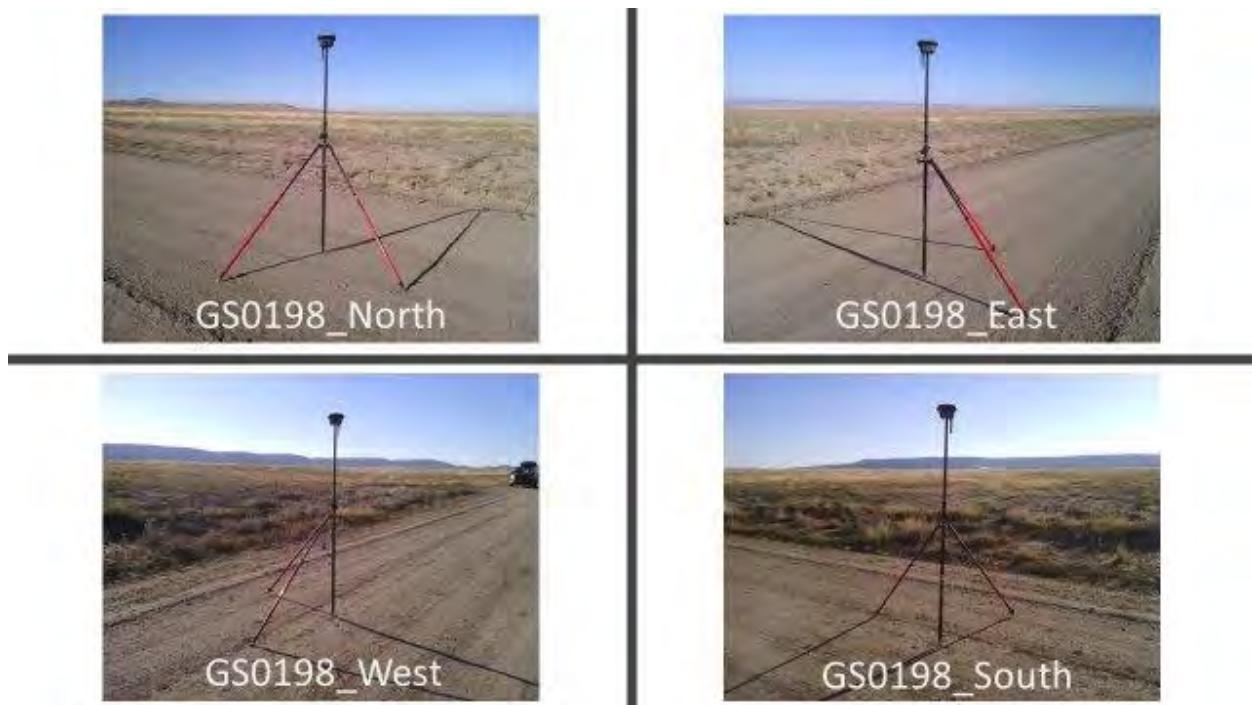
**Orthometric Height:** 1873.868 Meters

**Latitude:** 35 57 38.150697 N

**Longitude:** 109 48 08.062284 W

**Ellipsoid Height:** 1853.324 Meters

## GS0198



**Point ID:** GS0198

**Northing:** 3980220.26 Meters

**Easting:** 608021.37 Meters

**Orthometric Height:** 1873.649 Meters

**Latitude:** 35 57 37.467321 N

**Longitude:** 109 48 07.516606 W

**Ellipsoid Height:** 1853.105 Meters

## GS0200



**Point ID:** GS0200

**Northing:** 3975829.499 Meters

**Easting:** 625401.55 Meters

**Orthometric Height:** 1859.06 Meters

**Latitude:** 35 55 07.513085 N

**Longitude:** 109 36 36.322707 W

**Ellipsoid Height:** 1838.591 Meters

## GS0201



**Point ID:** GS0201

**Northing:** 3975838.324 Meters

**Easting:** 625377.844 Meters

**Orthometric Height:** 1859.271 Meters

**Latitude:** 35 55 07.810403 N

**Longitude:** 109 36 37.263350 W

**Ellipsoid Height:** 1838.802 Meters

### GS0203



**Point ID:** GS0203

**Northing:** 3885170.444 Meters

**Easting:** 653853.475 Meters

**Orthometric Height:** 1848.347 Meters

**Latitude:** 35 05 51.377762 N

**Longitude:** 109 18 43.349790 W

**Ellipsoid Height:** 1825.465 Meters

**GS0212**



**Point ID:** GS0212

**Northing:** 3888138.92 Meters

**Easting:** 652482.988 Meters

**Orthometric Height:** 1888.615 Meters

**Latitude:** 35 07 28.449940 N

**Longitude:** 109 19 35.488995 W

**Ellipsoid Height:** 1865.787 Meters

## GS0213



**Point ID:** GS0213

**Northing:** 3888129.221 Meters

**Easting:** 652468.063 Meters

**Orthometric Height:** 1888.457 Meters

**Latitude:** 35 07 28.143341 N

**Longitude:** 109 19 36.084872 W

**Ellipsoid Height:** 1865.628 Meters

## GS0216



**Point ID:** GS0216

**Northing:** 3895086.918 Meters

**Easting:** 642656.198 Meters

**Orthometric Height:** 1754.308 Meters

**Latitude:** 35 11 19.098367 N

**Longitude:** 109 25 59.283720 W

**Ellipsoid Height:** 1731.433 Meters

**GS0217**



**Point ID:** GS0217

**Northing:** 3895115.483 Meters

**Easting:** 642652.704 Meters

**Orthometric Height:** 1754.558 Meters

**Latitude:** 35 11 20.027090 N

**Longitude:** 109 25 59.404033 W

**Ellipsoid Height:** 1731.684 Meters

## GS0220



**Point ID:** GS0220

**Northing:** 3898527.205 Meters

**Easting:** 651414.046 Meters

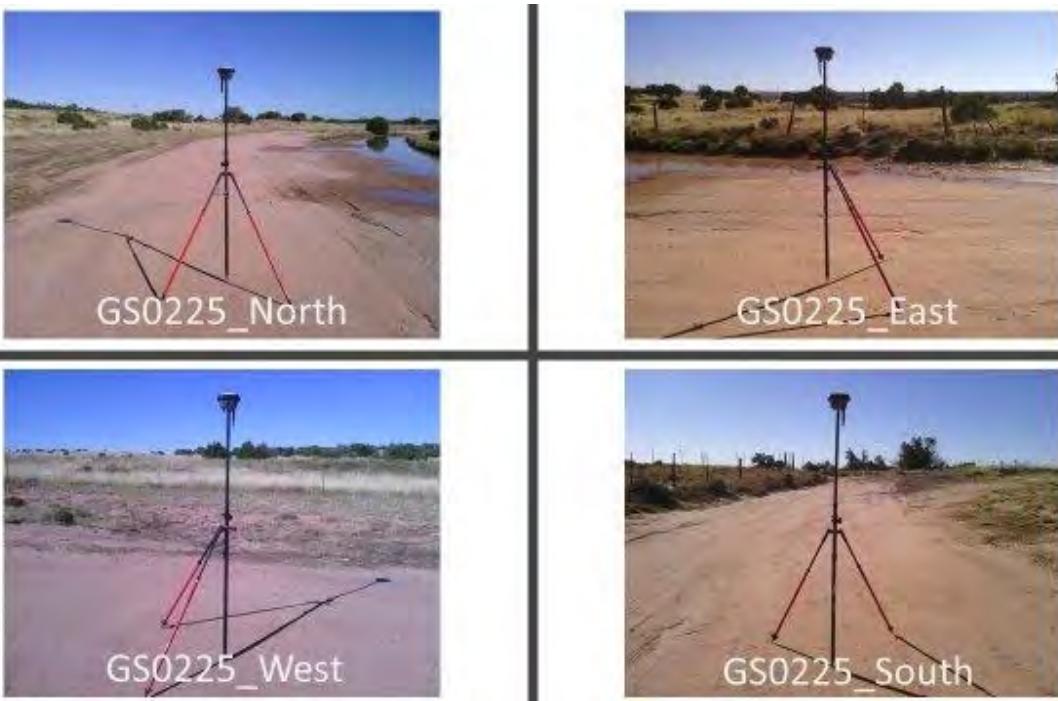
**Orthometric Height:** 1794.818 Meters

**Latitude:** 35 13 06.111660 N

**Longitude:** 109 20 10.842202 W

**Ellipsoid Height:** 1772.253 Meters

## GS0225



**Point ID:** GS0225

**Northing:** 3902721.316 Meters

**Easting:** 642138.668 Meters

**Orthometric Height:** 1866.923 Meters

**Latitude:** 35 15 27.094989 N

**Longitude:** 109 26 14.992746 W

**Ellipsoid Height:** 1844.306 Meters

## GS0232



**Point ID:** GS0232

**Northing:** 3907965.088 Meters

**Easting:** 649656.005 Meters

**Orthometric Height:** 1961.937 Meters

**Latitude:** 35 18 13.301737 N

**Longitude:** 109 21 14.164528 W

**Ellipsoid Height:** 1939.704 Meters

**GS0233**



**Point ID:** GS0233

**Northing:** 3907961.909 Meters

**Easting:** 649633.674 Meters

**Orthometric Height:** 1962.082 Meters

**Latitude:** 35 18 13.210613 N

**Longitude:** 109 21 15.050527 W

**Ellipsoid Height:** 1939.848 Meters

## GS0234



**Point ID:** GS0234

**Northing:** 3914464.203 Meters

**Easting:** 638891.779 Meters

**Orthometric Height:** 1924.374 Meters

**Latitude:** 35 21 49.786424 N

**Longitude:** 109 28 16.277510 W

**Ellipsoid Height:** 1902.13 Meters

**GS0237**



**Point ID:** GS0237

**Northing:** 3914482.112 Meters

**Easting:** 638886.729 Meters

**Orthometric Height:** 1924.588 Meters

**Latitude:** 35 21 50.370083 N

**Longitude:** 109 28 16.466597 W

**Ellipsoid Height:** 1902.345 Meters

## GS0240



GS0240\_North



GS0240\_East



GS0240\_West



GS0240\_South

**Point ID:** GS0240

**Northing:** 3906581.731 Meters

**Easting:** 621479.421 Meters

**Orthometric Height:** 1787.071 Meters

**Latitude:** 35 17 42.164356 N

**Longitude:** 109 39 50.291455 W

**Ellipsoid Height:** 1764.224 Meters

## GS0241



**Point ID:** GS0241

**Northing:** 3906533.833 Meters

**Easting:** 621474.183 Meters

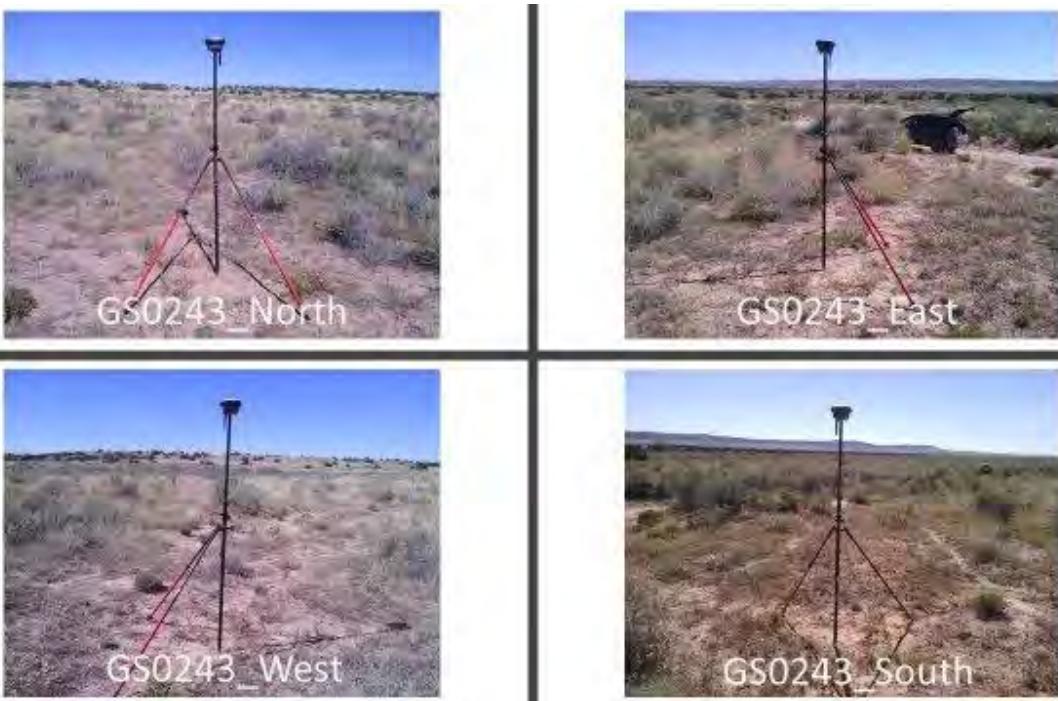
**Orthometric Height:** 1786.53 Meters

**Latitude:** 35 17 40.612217 N

**Longitude:** 109 39 50.524327 W

**Ellipsoid Height:** 1763.681 Meters

## GS0243



**Point ID:** GS0243

**Northing:** 3910450.318 Meters

**Easting:** 626385.546 Meters

**Orthometric Height:** 1804.566 Meters

**Latitude:** 35 19 45.517136 N

**Longitude:** 109 36 33.945657 W

**Ellipsoid Height:** 1781.925 Meters

## GS0245



**Point ID:** GS0245

**Northing:** 3910454.556 Meters

**Easting:** 626418.36 Meters

**Orthometric Height:** 1803.604 Meters

**Latitude:** 35 19 45.639732 N

**Longitude:** 109 36 32.643896 W

**Ellipsoid Height:** 1780.963 Meters

## GS0246



**Point ID:** GS0246

**Northing:** 3912044.574 Meters

**Easting:** 628202.021 Meters

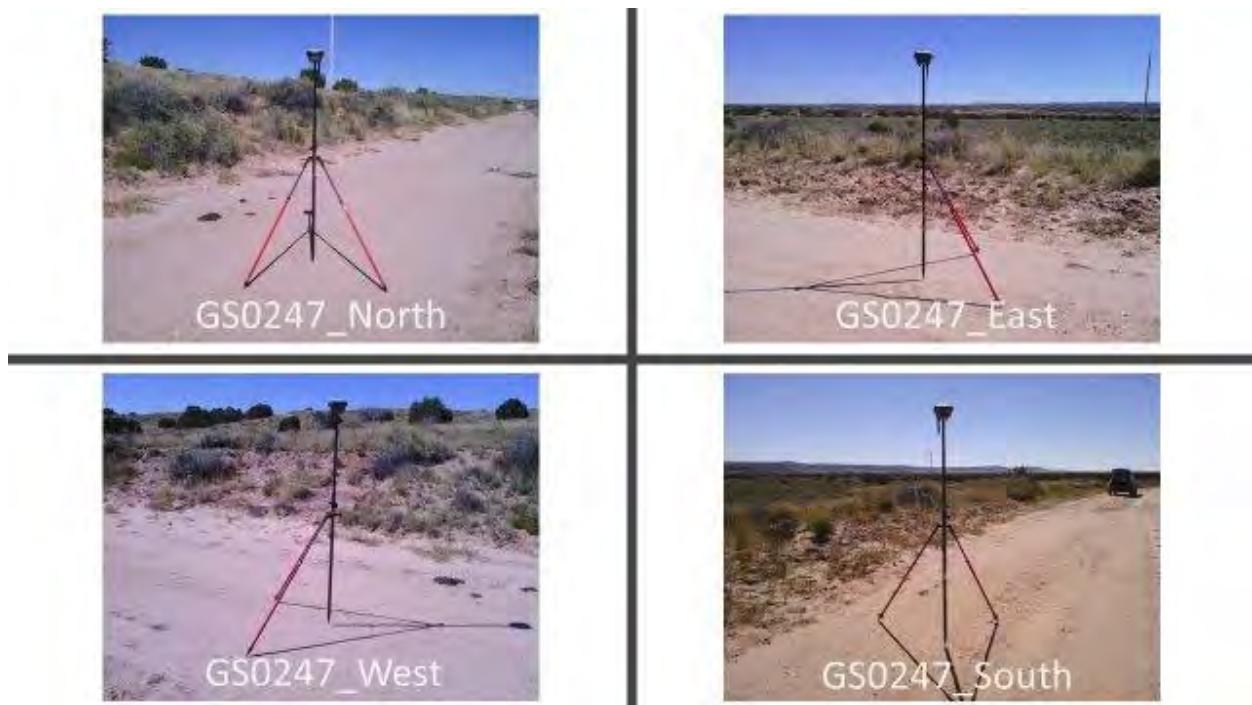
**Orthometric Height:** 1816.337 Meters

**Latitude:** 35 20 36.419101 N

**Longitude:** 109 35 21.116257 W

**Ellipsoid Height:** 1793.779 Meters

## GS0247



**Point ID:** GS0247

**Northing:** 3912063.637 Meters

**Easting:** 628217.704 Meters

**Orthometric Height:** 1816.6 Meters

**Latitude:** 35 20 37.030485 N

**Longitude:** 109 35 20.484358 W

**Ellipsoid Height:** 1794.042 Meters

**GS0256**



**Point ID:** GS0256

**Northing:** 3919592.568 Meters

**Easting:** 637152.404 Meters

**Orthometric Height:** 1946.467 Meters

**Latitude:** 35 24 37.065190 N

**Longitude:** 109 29 22.078129 W

**Ellipsoid Height:** 1924.372 Meters

**GS0257**



**Point ID:** GS0257

**Northing:** 3919583.291 Meters

**Easting:** 637132.292 Meters

**Orthometric Height:** 1945.779 Meters

**Latitude:** 35 24 36.774113 N

**Longitude:** 109 29 22.880910 W

**Ellipsoid Height:** 1923.684 Meters

## GS0260



**Point ID:** GS0260

**Northing:** 3926382.959 Meters

**Easting:** 633407.143 Meters

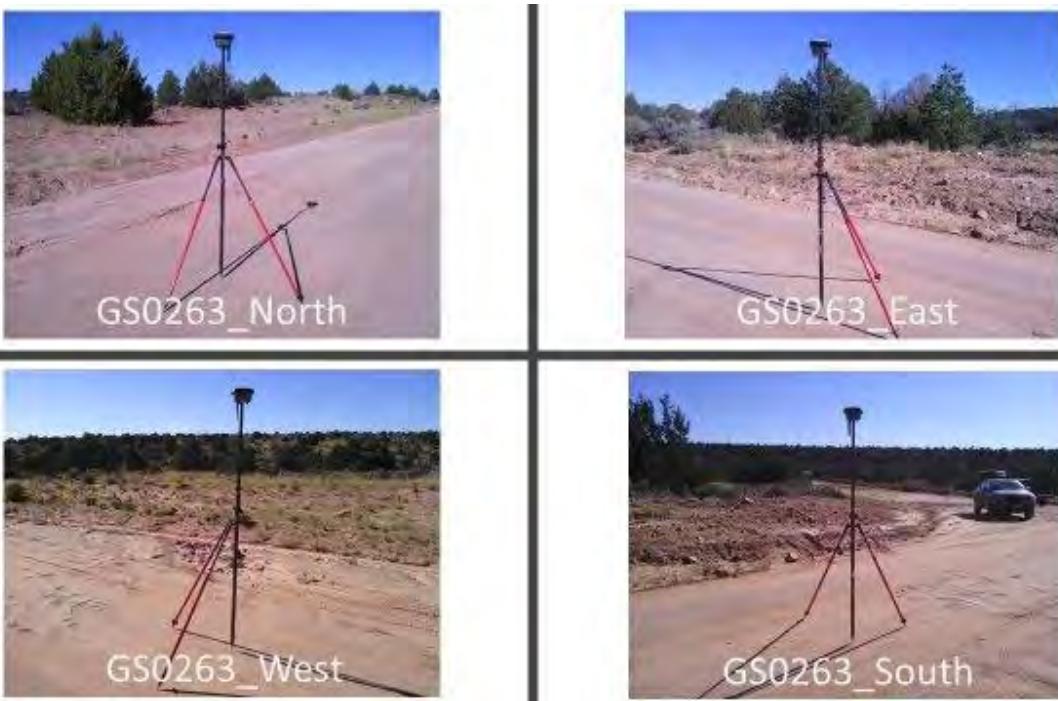
**Orthometric Height:** 1998.016 Meters

**Latitude:** 35 28 19.242970 N

**Longitude:** 109 31 46.522595 W

**Ellipsoid Height:** 1976.165 Meters

## GS0263



**Point ID:** GS0263

**Northing:** 3931116.756 Meters

**Easting:** 639489.433 Meters

**Orthometric Height:** 2054.815 Meters

**Latitude:** 35 30 49.840276 N

**Longitude:** 109 27 42.331020 W

**Ellipsoid Height:** 2033.276 Meters

## GS0265



**Point ID:** GS0265

**Northing:** 3931133.161 Meters

**Easting:** 639514.424 Meters

**Orthometric Height:** 2056.223 Meters

**Latitude:** 35 30 50.359929 N

**Longitude:** 109 27 41.329065 W

**Ellipsoid Height:** 2034.685 Meters

## GS0267



**Point ID:** GS0267

**Northing:** 3932011.819 Meters

**Easting:** 644233.297 Meters

**Orthometric Height:** 2174.616 Meters

**Latitude:** 35 31 16.440779 N

**Longitude:** 109 24 33.492441 W

**Ellipsoid Height:** 2153.217 Meters

## GS0270



**Point ID:** GS0270

**Northing:** 3930198.465 Meters

**Easting:** 634026.532 Meters

**Orthometric Height:** 1958.387 Meters

**Latitude:** 35 30 22.753532 N

**Longitude:** 109 31 19.686145 W

**Ellipsoid Height:** 1936.713 Meters

## GS0271



**Point ID:** GS0271

**Northing:** 3930201.649 Meters

**Easting:** 634047.251 Meters

**Orthometric Height:** 1957.969 Meters

**Latitude:** 35 30 22.846783 N

**Longitude:** 109 31 18.862036 W

**Ellipsoid Height:** 1936.295 Meters

**GS0275**



**Point ID:** GS0275

**Northing:** 3978415.927 Meters

**Easting:** 633979.041 Meters

**Orthometric Height:** 1799.809 Meters

**Latitude:** 35 56 27.337547 N

**Longitude:** 109 30 52.600305 W

**Ellipsoid Height:** 1779.529 Meters

**GS0276**



GS0276\_North



GS0276\_East



GS0276\_West



GS0276\_South

**Point ID:** GS0276

**Northing:** 3978430.182 Meters

**Easting:** 633996.581 Meters

**Orthometric Height:** 1798.567 Meters

**Latitude:** 35 56 27.791410 N

**Longitude:** 109 30 51.891805 W

**Ellipsoid Height:** 1778.287 Meters

**GS0277**



**GS0277\_North**



**GS0277\_East**



**GS0277\_West**



**GS0277\_South**

**Point ID:** GS0277

**Northing:** 3978449.974 Meters

**Easting:** 634003.703 Meters

**Orthometric Height:** 1798.284 Meters

**Latitude:** 35 56 28.430100 N

**Longitude:** 109 30 51.595601 W

**Ellipsoid Height:** 1778.005 Meters

**GS0282**



**Point ID:** GS0282

**Northing:** 4007704.071 Meters

**Easting:** 615556.17 Meters

**Orthometric Height:** 1826.755 Meters

**Latitude:** 36 12 26.176446 N

**Longitude:** 109 42 52.276420 W

**Ellipsoid Height:** 1806.372 Meters

## GS0283



**Point ID:** GS0283

**Northing:** 4007686.679 Meters

**Easting:** 615543.801 Meters

**Orthometric Height:** 1826.762 Meters

**Latitude:** 36 12 25.617436 N

**Longitude:** 109 42 52.780915 W

**Ellipsoid Height:** 1806.379 Meters

**GS0287**



**Point ID:** GS0287

**Northing:** 4013192.993 Meters

**Easting:** 615027.656 Meters

**Orthometric Height:** 1714.691 Meters

**Latitude:** 36 15 24.507906 N

**Longitude:** 109 43 10.533989 W

**Ellipsoid Height:** 1694.278 Meters

## GS0288



GS0288\_North



GS0288\_East



GS0288\_West



GS0288\_South

**Point ID:** GS0288

**Northing:** 4013172.615 Meters

**Easting:** 615015.968 Meters

**Orthometric Height:** 1714.744 Meters

**Latitude:** 36 15 23.851690 N

**Longitude:** 109 43 11.013014 W

**Ellipsoid Height:** 1694.331 Meters

## GS0290



GS0290\_North



GS0290\_East



GS0290\_West



GS0290\_South

**Point ID:** GS0290

**Northing:** 4006367.934 Meters

**Easting:** 619050.031 Meters

**Orthometric Height:** 1732.867 Meters

**Latitude:** 36 11 41.296572 N

**Longitude:** 109 40 33.119888 W

**Ellipsoid Height:** 1712.504 Meters

## GS0291



**Point ID:** GS0291

**Northing:** 4006360.225 Meters

**Easting:** 619026.081 Meters

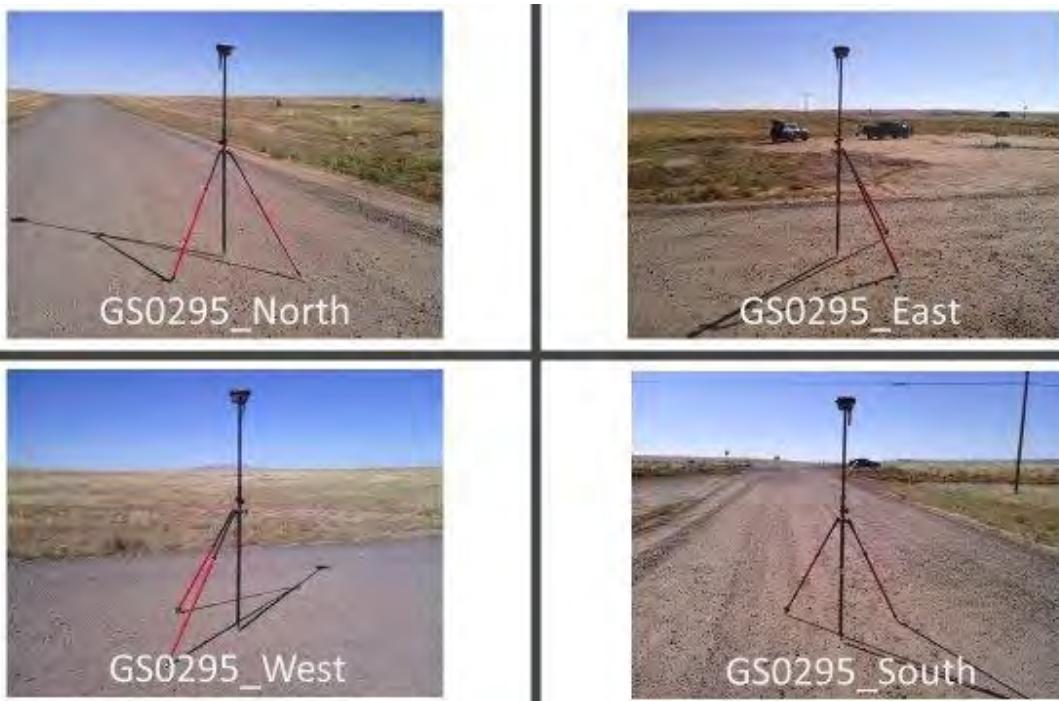
**Orthometric Height:** 1733.128 Meters

**Latitude:** 36 11 41.057017 N

**Longitude:** 109 40 34.082879 W

**Ellipsoid Height:** 1712.765 Meters

## GS0295



**Point ID:** GS0295

**Northing:** 3992504.389 Meters

**Easting:** 611024.202 Meters

**Orthometric Height:** 1795.602 Meters

**Latitude:** 36 04 14.871591 N

**Longitude:** 109 46 01.455726 W

**Ellipsoid Height:** 1775.186 Meters

## GS0296



**Point ID:** GS0296

**Northing:** 3992527.145 Meters

**Easting:** 611023.118 Meters

**Orthometric Height:** 1795.548 Meters

**Latitude:** 36 04 15.610455 N

**Longitude:** 109 46 01.487509 W

**Ellipsoid Height:** 1775.132 Meters

## GS0300



**Point ID:** GS0300

**Northing:** 3992161.075 Meters

**Easting:** 601380.278 Meters

**Orthometric Height:** 1848.234 Meters

**Latitude:** 36 04 07.524197 N

**Longitude:** 109 52 27.090773 W

**Ellipsoid Height:** 1827.773 Meters

## GS0301



**Point ID:** GS0301

**Northing:** 3992153.023 Meters

**Easting:** 601404.801 Meters

**Orthometric Height:** 1848.42 Meters

**Latitude:** 36 04 07.253682 N

**Longitude:** 109 52 26.114283 W

**Ellipsoid Height:** 1827.959 Meters

## GS0304



**Point ID:** GS0304

**Northing:** 3994051.111 Meters

**Easting:** 618611.889 Meters

**Orthometric Height:** 1724.811 Meters

**Latitude:** 36 05 01.833649 N

**Longitude:** 109 40 57.346533 W

**Ellipsoid Height:** 1704.437 Meters

## GS0307



GS0307\_North



GS0307\_East



GS0307\_West



GS0307\_South

**Point ID:** GS0307

**Northing:** 3994071.425 Meters

**Easting:** 618606.235 Meters

**Orthometric Height:** 1724.711 Meters

**Latitude:** 36 05 02.495296 N

**Longitude:** 109 40 57.561536 W

**Ellipsoid Height:** 1704.337 Meters

## GS0309



**Point ID:** GS0309

**Northing:** 3989716.425 Meters

**Easting:** 647649.863 Meters

**Orthometric Height:** 2082.714 Meters

**Latitude:** 36 02 26.877323 N

**Longitude:** 109 21 39.577480 W

**Ellipsoid Height:** 2062.785 Meters

## GS0310



**Point ID:** GS0310

**Northing:** 3989717.419 Meters

**Easting:** 647672.508 Meters

**Orthometric Height:** 2082.871 Meters

**Latitude:** 36 02 26.897224 N

**Longitude:** 109 21 38.672196 W

**Ellipsoid Height:** 2062.942 Meters

**GS0314**



**Point ID:** GS0314

**Northing:** 3986348.181 Meters

**Easting:** 650200.963 Meters

**Orthometric Height:** 2142.115 Meters

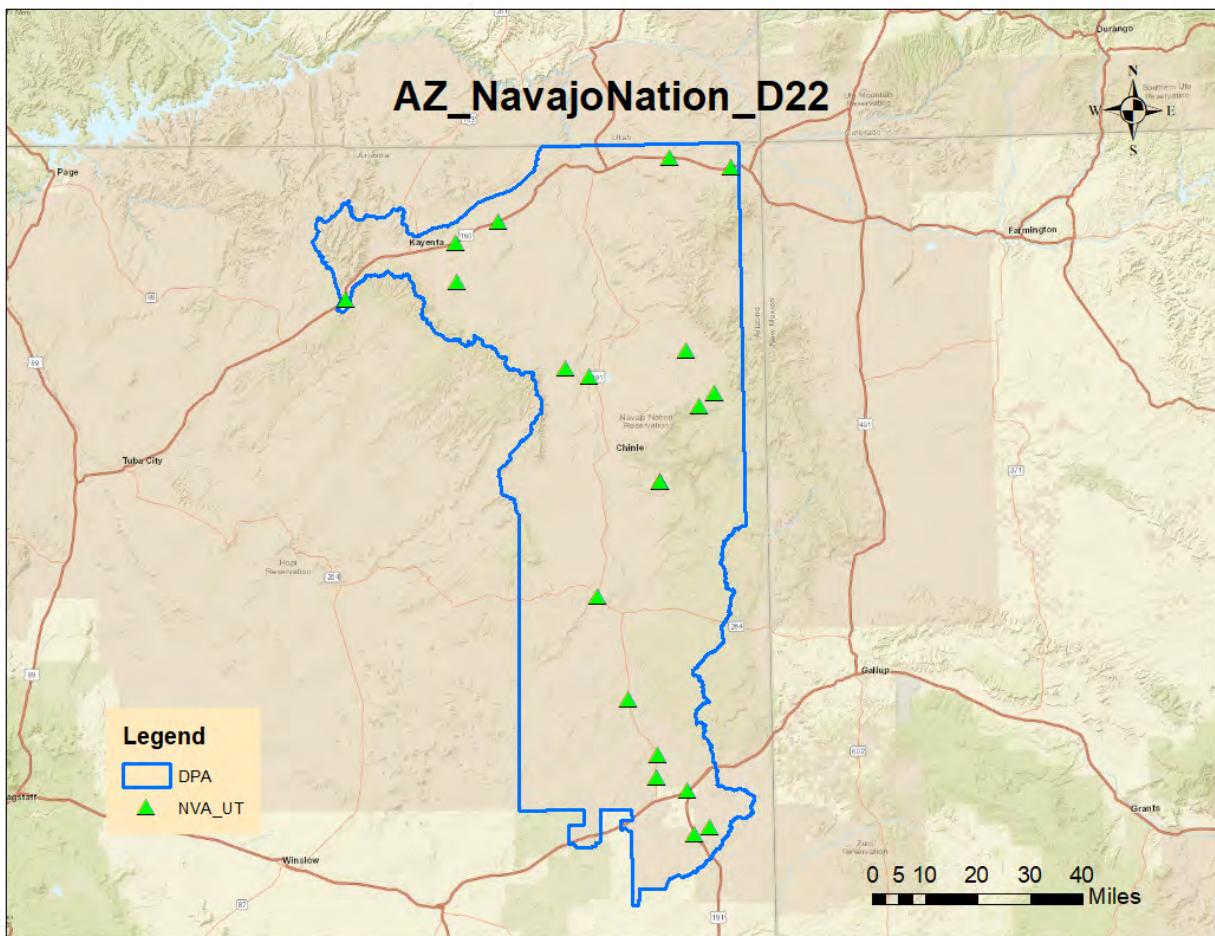
**Latitude:** 36 00 36.194305 N

**Longitude:** 109 19 59.970847 W

**Ellipsoid Height:** 2122.16 Meters

## Non-Vegetated Vertical Accuracy Checkpoints Urban Terrain

The Map shows the overall distribution of the Non-Vegetated Vertical Accuracy Checkpoint, Urban Terrain throughout the AOI. The following tables contain a list of the control using Easting, Northing, and Orthometric height. The coordinate system displayed is Universal Transverse Mercator UTM Zone 12, North American Datum 1983 (2011), North American Vertical Datum of 1988, Geoid 18 and using Meters for measurement.



**TABLE: Urban Terrain**

Point ID	Easting	Northing	Ortho
<b>GS0004</b>	621456.931	4024973.385	1680.426
<b>GS0009</b>	614495.395	4027608.876	1720.358
<b>GS0032</b>	581070.079	4054051.805	1770.207
<b>GS0040</b>	547278.881	4048555.759	1986.758
<b>GS0050</b>	580860.526	4065868.76	1682.435
<b>GS0053</b>	593855.588	4072163.186	1570.972
<b>GS0072</b>	664809.674	4088863.119	1584.931
<b>GS0075</b>	646299.989	4091748.434	1651.627
<b>GS0118</b>	651344.097	4032963.753	1865.04
<b>GS0124</b>	660088.238	4019898.939	2149.119
<b>GS0130</b>	655100.214	4015828.637	2173.55
<b>GS0188</b>	624211.218	3957696.328	1937.174
<b>GS0205</b>	653893.883	3885182.586	1849.266
<b>GS0209</b>	658390.984	3887239.954	1889.594
<b>GS0221</b>	651439.326	3898517.895	1794.559
<b>GS0222</b>	642102.698	3902674.318	1869.448
<b>GS0227</b>	642547.829	3909383.642	1912.416
<b>GS0258</b>	633396.811	3926358.24	1996.744
<b>GS0317</b>	643348.841	3992961.588	2039.166
<b>GS0318</b>	643336.602	3992942.316	2038.805

## GS0004



**Point ID:** GS0004

**Northing:** 4024973.385 Meters

**Easting:** 621456.931 Meters

**Orthometric Height:** 1680.426 Meters

**Latitude:** 36 21 43.907500 N

**Longitude:** 109 38 46.354335 W

**Ellipsoid Height:** 1659.976 Meters

**GS0009**



**Point ID:** GS0009

**Northing:** 4027608.876 Meters

**Easting:** 614495.395 Meters

**Orthometric Height:** 1720.358 Meters

**Latitude:** 36 23 12.496260 N

**Longitude:** 109 43 24.234818 W

**Ellipsoid Height:** 1699.857 Meters

## GS0032



**Point ID:** GS0032

**Northing:** 4054051.805 Meters

**Easting:** 581070.079 Meters

**Orthometric Height:** 1770.207 Meters

**Latitude:** 36 37 42.830323 N

**Longitude:** 110 05 35.727839 W

**Ellipsoid Height:** 1749.716 Meters

## GS0040



**Point ID:** GS0040

**Northing:** 4048555.759 Meters

**Easting:** 547278.881 Meters

**Orthometric Height:** 1986.758 Meters

**Latitude:** 36 34 52.665508 N

**Longitude:** 110 28 17.470311 W

**Ellipsoid Height:** 1966.367 Meters

## GS0050



**Point ID:** GS0050

**Northing:** 4065868.76 Meters

**Easting:** 580860.526 Meters

**Orthometric Height:** 1682.435 Meters

**Latitude:** 36 44 06.350241 N

**Longitude:** 110 05 39.671868 W

**Ellipsoid Height:** 1661.737 Meters

## GS0053



GS0053\_North



GS0053\_East



GS0053\_West



GS0053\_South

**Point ID:** GS0053

**Northing:** 4072163.186 Meters

**Easting:** 593855.588 Meters

**Orthometric Height:** 1570.972 Meters

**Latitude:** 36 47 26.283126 N

**Longitude:** 109 56 52.991711 W

**Ellipsoid Height:** 1550.044 Meters

## GS0072



GS0072\_North



GS0072\_East



GS0072\_West



GS0072\_South

**Point ID:** GS0072

**Northing:** 4088863.119 Meters

**Easting:** 664809.674 Meters

**Orthometric Height:** 1584.931 Meters

**Latitude:** 36 55 53.079356 N

**Longitude:** 109 08 58.052518 W

**Ellipsoid Height:** 1564.342 Meters

## GS0075



**Point ID:** GS0075

**Northing:** 4091748.434 Meters

**Easting:** 646299.989 Meters

**Orthometric Height:** 1651.627 Meters

**Latitude:** 36 57 37.677197 N

**Longitude:** 109 21 23.944311 W

**Ellipsoid Height:** 1631.026 Meters

## GS0118



**Point ID:** GS0118

**Northing:** 4032963.753 Meters

**Easting:** 651344.097 Meters

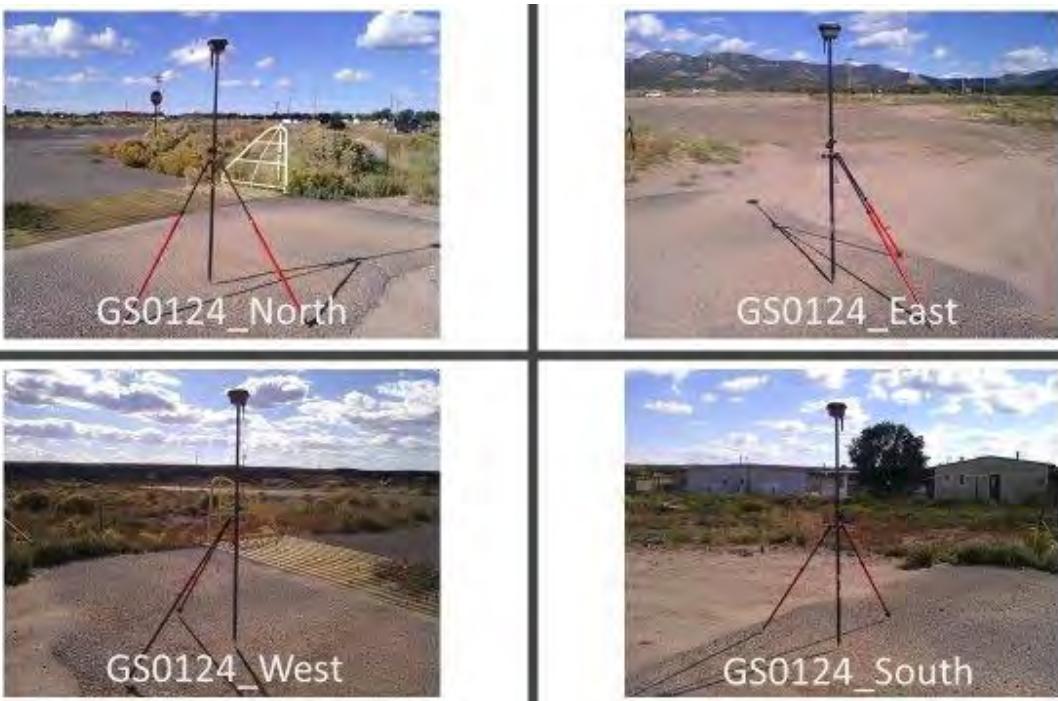
**Orthometric Height:** 1865.04 Meters

**Latitude:** 36 25 47.866802 N

**Longitude:** 109 18 41.904022 W

**Ellipsoid Height:** 1845.34 Meters

## GS0124



**Point ID:** GS0124

**Northing:** 4019898.939 Meters

**Easting:** 660088.238 Meters

**Orthometric Height:** 2149.119 Meters

**Latitude:** 36 18 38.940814 N

**Longitude:** 109 13 00.564540 W

**Ellipsoid Height:** 2129.806 Meters

## GS0130



**Point ID:** GS0130

**Northing:** 4015828.637 Meters

**Easting:** 655100.214 Meters

**Orthometric Height:** 2173.55 Meters

**Latitude:** 36 16 29.832738 N

**Longitude:** 109 16 23.409211 W

**Ellipsoid Height:** 2154.168 Meters

## GS0188



**Point ID:** GS0188

**Northing:** 3957696.328 Meters

**Easting:** 624211.218 Meters

**Orthometric Height:** 1937.174 Meters

**Latitude:** 35 45 19.658751 N

**Longitude:** 109 37 33.963428 W

**Ellipsoid Height:** 1916.387 Meters

## GS0205



**Point ID:** GS0205

**Northing:** 3885182.586 Meters

**Easting:** 653893.883 Meters

**Orthometric Height:** 1849.266 Meters

**Latitude:** 35 05 51.749507 N

**Longitude:** 109 18 41.746340 W

**Ellipsoid Height:** 1826.385 Meters

## GS0209



GS0209\_North



GS0209\_East



GS0209\_West



GS0209\_South

**Point ID:** GS0209

**Northing:** 3887239.954 Meters

**Easting:** 658390.984 Meters

**Orthometric Height:** 1889.594 Meters

**Latitude:** 35 06 55.996209 N

**Longitude:** 109 15 42.781152 W

**Ellipsoid Height:** 1866.865 Meters

**GS0221**



**Point ID:** GS0221

**Northing:** 3898517.895 Meters

**Easting:** 651439.326 Meters

**Orthometric Height:** 1794.559 Meters

**Latitude:** 35 13 05.795837 N

**Longitude:** 109 20 09.848799 W

**Ellipsoid Height:** 1771.994 Meters

**GS0222**



**Point ID:** GS0222

**Northing:** 3902674.318 Meters

**Easting:** 642102.698 Meters

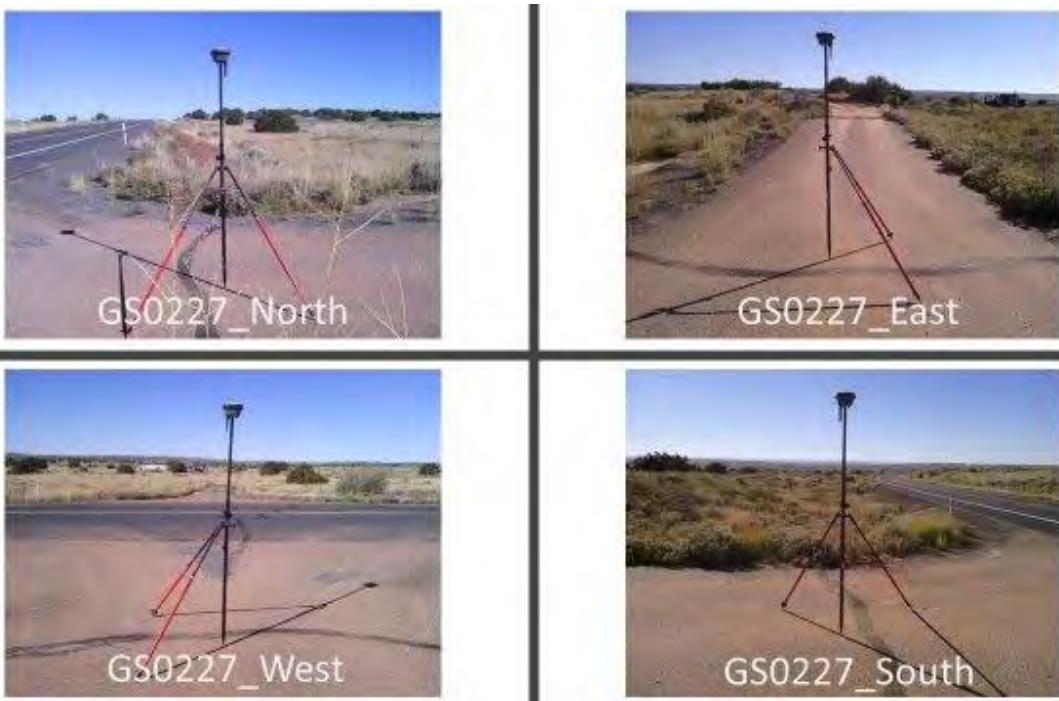
**Orthometric Height:** 1869.448 Meters

**Latitude:** 35 15 25.588316 N

**Longitude:** 109 26 16.445026 W

**Ellipsoid Height:** 1846.828 Meters

## GS0227



**Point ID:** GS0227

**Northing:** 3909383.642 Meters

**Easting:** 642547.829 Meters

**Orthometric Height:** 1912.416 Meters

**Latitude:** 35 19 03.071863 N

**Longitude:** 109 25 54.637728 W

**Ellipsoid Height:** 1890.067 Meters

**GS0258**



GS0258\_North



GS0258\_East



GS0258\_West



GS0258\_South

**Point ID:** GS0258

**Northing:** 3926358.24 Meters

**Easting:** 633396.811 Meters

**Orthometric Height:** 1996.744 Meters

**Latitude:** 35 28 18.445856 N

**Longitude:** 109 31 46.947016 W

**Ellipsoid Height:** 1974.892 Meters

**GS0317**



**Point ID:** GS0317

**Northing:** 3992961.588 Meters

**Easting:** 643348.841 Meters

**Orthometric Height:** 2039.166 Meters

**Latitude:** 36 04 14.480195 N

**Longitude:** 109 24 29.275014 W

**Ellipsoid Height:** 2019.27 Meters

## GS0318



**Point ID:** GS0318

**Northing:** 3992942.316 Meters

**Easting:** 643336.602 Meters

**Orthometric Height:** 2038.805 Meters

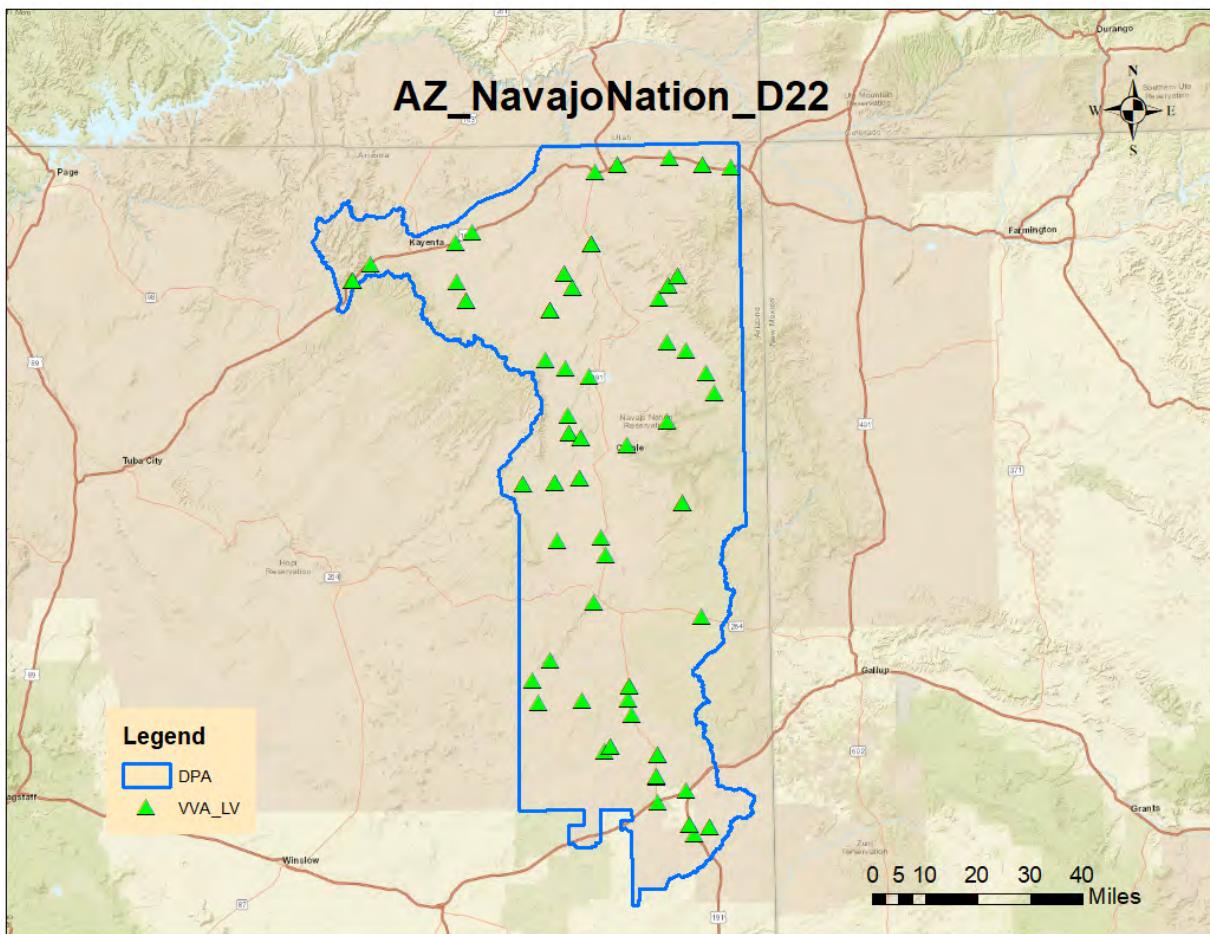
**Latitude:** 36 04 13.861426 N

**Longitude:** 109 24 29.776710 W

**Ellipsoid Height:** 2018.908 Meters

## Vegetated Vertical Accuracy Checkpoints Low Vegetation

The Map shows the overall distribution of the Vegetated Vertical Accuracy Checkpoint, Low Vegetation throughout the AOI. The following tables contain a list of the control using Easting, Northing, and Orthometric height. The coordinate system displayed is Universal Transverse Mercator UTM Zone 12, North American Datum 1983 (2011), North American Vertical Datum of 1988, Geoid 18 and using Meters for measurement.



**TABLE: Low Vegetation**

Point ID	Easting	Northing	Ortho
GS0003	621457.103	4024952.866	1680.074
GS0011	614471.161	4027626.699	1719.478
GS0016	609815.206	4045267.177	1707.218
GS0017	609821.301	4045232.788	1707.852
GS0019	609796.394	4045176.457	1710.578
GS0022	608345.176	4030050.611	1794.906
GS0024	584088.969	4048282.924	1706.764
GS0025	584088.831	4048258.293	1706.917
GS0033	581083.448	4054075.212	1769.876
GS0035	549168.223	4054212.505	1903.921
GS0036	549182.987	4054229.385	1902.953
GS0037	549192.536	4054242.072	1902.469
GS0042	554602.696	4059411.184	1841.933
GS0046	585814.65	4069118.926	1603.226
GS0051	580876.18	4065886.971	1682.082
GS0058	623295.906	4087402.475	1512.367
GS0064	630398.356	4089673.159	1624.186
GS0066	630421.96	4089690.91	1625.095
GS0069	656192.056	4089609.318	1632.256
GS0070	656224.542	4089580.635	1632.382
GS0073	664831.172	4088853.965	1585.067
GS0076	646284.093	4091732.394	1651.273
GS0086	622293.142	4065399.9	1524.19
GS0087	622301.226	4065373.933	1524.27
GS0088	622314.492	4065344.132	1524.328
GS0090	614078.809	4056556.297	1668.898
GS0092	614074.111	4056589.824	1669.289
GS0095	616584.586	4052215.461	1620.9
GS0096	616555.107	4052218.711	1621.223
GS0101	645697.639	4052952.685	1773.51
GS0102	645718.897	4052972.935	1773.7
GS0104	648759.776	4055687.92	1773.523
GS0106	648746.395	4055664.862	1772.318
GS0110	643033.693	4048863.387	1769.264
GS0114	645620.827	4035502.858	1803.153
GS0120	651329.3	4032996.807	1864.878
GS0123	660085.737	4019921.09	2149.007
GS0129	657229.317	4025943.751	2025.381
GS0139	633142.878	4003964.465	1782.057
GS0142	645591.962	4011110.215	2078.565
GS0145	606146.667	3925328.191	1819.395
GS0148	619302.099	3925939.736	1949.501

<b>GS0153</b>	604193.263	3932321.038	1805.509
<b>GS0159</b>	609518.455	3938145.565	1829.199
<b>GS0167</b>	622888.419	3955853.322	1940.275
<b>GS0181</b>	655875.651	3951666.449	2282.435
<b>GS0191</b>	626633.235	3970353.814	1949.959
<b>GS0193</b>	611834.131	3974615.852	1864.45
<b>GS0199</b>	625405.888	3975852.48	1858.665
<b>GS0204</b>	653880.102	3885161.732	1848.316
<b>GS0207</b>	658340.495	3887233.308	1888.525
<b>GS0208</b>	658321.378	3887227.569	1888.306
<b>GS0210</b>	652497.914	3888117.663	1888.259
<b>GS0211</b>	652506.86	3888098.053	1887.78
<b>GS0215</b>	642677.996	3895075.666	1754.232
<b>GS0218</b>	651375.627	3898550.045	1795.19
<b>GS0223</b>	642124.829	3902681.697	1868.127
<b>GS0224</b>	642128.241	3902703.618	1867.44
<b>GS0228</b>	642557.179	3909401.688	1911.86
<b>GS0229</b>	642557.638	3909420.249	1911.987
<b>GS0244</b>	626412.43	3910435.68	1803.955
<b>GS0248</b>	628230.55	3912054.798	1815.986
<b>GS0249</b>	628237.933	3912070.436	1816.56
<b>GS0253</b>	634763.44	3921545.415	1935.722
<b>GS0261</b>	633404.476	3926415.045	1999.107
<b>GS0272</b>	634053.274	3930187.994	1957.489
<b>GS0273</b>	634037.819	3930170.924	1957.277
<b>GS0284</b>	615563.612	4007673.132	1828.345
<b>GS0285</b>	615575.528	4007686.951	1828.446
<b>GS0289</b>	615022.33	4013148.958	1714.707
<b>GS0292</b>	619036.414	4006333.833	1733.766
<b>GS0293</b>	619063.276	4006342.885	1733.322
<b>GS0297</b>	611005.128	3992539.98	1795.468
<b>GS0298</b>	610997.535	3992513.037	1795.233
<b>GS0302</b>	601436.188	3992156.982	1847.775
<b>GS0303</b>	601428.315	3992173.262	1847.966
<b>GS0305</b>	618637.63	3994050.67	1724.683
<b>GS0306</b>	618643.162	3994069.856	1724.634
<b>GS0315</b>	650218.225	3986359.288	2141.962
<b>GS0316</b>	650214.089	3986340.169	2142.272

**GS0003**



GS0003\_North



GS0003\_East



GS0003\_West



GS0003\_South

**Point ID:** GS0003

**Northing:** 4024952.866 Meters

**Easting:** 621457.103 Meters

**Orthometric Height:** 1680.074 Meters

**Latitude:** 36 21 43.241647 N

**Longitude:** 109 38 46.358988 W

**Ellipsoid Height:** 1659.624 Meters

## GS0011



GS0011\_North



GS0011\_East



GS0011\_West



GS0011\_South

**Point ID:** GS0011

**Northing:** 4027626.699 Meters

**Easting:** 614471.161 Meters

**Orthometric Height:** 1719.478 Meters

**Latitude:** 36 23 13.084955 N

**Longitude:** 109 43 25.197878 W

**Ellipsoid Height:** 1698.977 Meters

**GS0016**



GS0016\_North



GS0016\_East



GS0016\_West



GS0016\_South

**Point ID:** GS0016

**Northing:** 4045267.177 Meters

**Easting:** 609815.206 Meters

**Orthometric Height:** 1707.218 Meters

**Latitude:** 36 32 47.429046 N

**Longitude:** 109 46 23.033922 W

**Ellipsoid Height:** 1686.69 Meters

**GS0017**



GS0017\_North



GS0017\_East



GS0017\_West



GS0017\_South

**Point ID:** GS0017

**Northing:** 4045232.788 Meters

**Easting:** 609821.301 Meters

**Orthometric Height:** 1707.852 Meters

**Latitude:** 36 32 46.310678 N

**Longitude:** 109 46 22.806488 W

**Ellipsoid Height:** 1687.324 Meters

## GS0019



**Point ID:** GS0019

**Northing:** 4045176.457 Meters

**Easting:** 609796.394 Meters

**Orthometric Height:** 1710.578 Meters

**Latitude:** 36 32 44.493220 N

**Longitude:** 109 46 23.836937 W

**Ellipsoid Height:** 1690.051 Meters

**GS0022**



GS0022\_North



GS0022\_East



GS0022\_West



GS0022\_South

**Point ID:** GS0022

**Northing:** 4030050.611 Meters

**Easting:** 608345.176 Meters

**Orthometric Height:** 1794.906 Meters

**Latitude:** 36 24 34.292992 N

**Longitude:** 109 47 29.822822 W

**Ellipsoid Height:** 1774.434 Meters

**GS0024**



**Point ID:** GS0024

**Northing:** 4048282.924 Meters

**Easting:** 584088.969 Meters

**Orthometric Height:** 1706.764 Meters

**Latitude:** 36 34 34.689380 N

**Longitude:** 110 03 36.459191 W

**Ellipsoid Height:** 1686.285 Meters

## GS0025



GS0025\_North



GS0025\_East



GS0025\_West



GS0025\_South

**Point ID:** GS0025

**Northing:** 4048258.293 Meters

**Easting:** 584088.831 Meters

**Orthometric Height:** 1706.917 Meters

**Latitude:** 36 34 33.890168 N

**Longitude:** 110 03 36.474438 W

**Ellipsoid Height:** 1686.438 Meters

**GS0033**



GS0033\_North



GS0033\_East



GS0033\_West



GS0033\_South

**Point ID:** GS0033

**Northing:** 4054075.212 Meters

**Easting:** 581083.448 Meters

**Orthometric Height:** 1769.876 Meters

**Latitude:** 36 37 43.585805 N

**Longitude:** 110 05 35.180686 W

**Ellipsoid Height:** 1749.384 Meters

## GS0035



GS0035\_North



GS0035\_East



GS0035\_West



GS0035\_South

**Point ID:** GS0035

**Northing:** 4054212.505 Meters

**Easting:** 549168.223 Meters

**Orthometric Height:** 1903.921 Meters

**Latitude:** 36 37 55.897810 N

**Longitude:** 110 27 00.142302 W

**Ellipsoid Height:** 1883.597 Meters

## GS0036



GS0036\_North



GS0036\_East



GS0036\_West



GS0036\_South

**Point ID:** GS0036

**Northing:** 4054229.385 Meters

**Easting:** 549182.987 Meters

**Orthometric Height:** 1902.953 Meters

**Latitude:** 36 37 56.442880 N

**Longitude:** 110 26 59.543932 W

**Ellipsoid Height:** 1882.629 Meters

**GS0037**



GS0037\_North



GS0037\_East



GS0037\_West



GS0037\_South

**Point ID:** GS0037

**Northing:** 4054242.072 Meters

**Easting:** 549192.536 Meters

**Orthometric Height:** 1902.469 Meters

**Latitude:** 36 37 56.852818 N

**Longitude:** 110 26 59.156477 W

**Ellipsoid Height:** 1882.146 Meters

**GS0042**



**Point ID:** GS0042

**Northing:** 4059411.184 Meters

**Easting:** 554602.696 Meters

**Orthometric Height:** 1841.933 Meters

**Latitude:** 36 40 43.539359 N

**Longitude:** 110 23 19.990051 W

**Ellipsoid Height:** 1821.627 Meters

## GS0046



**Point ID:** GS0046

**Northing:** 4069118.926 Meters

**Easting:** 585814.65 Meters

**Orthometric Height:** 1603.226 Meters

**Latitude:** 36 45 50.247531 N

**Longitude:** 110 02 18.628684 W

**Ellipsoid Height:** 1582.418 Meters

## GS0051



**Point ID:** GS0051

**Northing:** 4065886.971 Meters

**Easting:** 580876.18 Meters

**Orthometric Height:** 1682.082 Meters

**Latitude:** 36 44 06.936390 N

**Longitude:** 110 05 39.033823 W

**Ellipsoid Height:** 1661.383 Meters

## GS0058



**Point ID:** GS0058

**Northing:** 4087402.475 Meters

**Easting:** 623295.906 Meters

**Orthometric Height:** 1512.367 Meters

**Latitude:** 36 55 28.543768 N

**Longitude:** 109 36 56.461486 W

**Ellipsoid Height:** 1491.465 Meters

## GS0064



**Point ID:** GS0064

**Northing:** 4089673.159 Meters

**Easting:** 630398.356 Meters

**Orthometric Height:** 1624.186 Meters

**Latitude:** 36 56 38.767070 N

**Longitude:** 109 32 08.058641 W

**Ellipsoid Height:** 1603.388 Meters

## GS0066



GS0066\_North



GS0066\_East



GS0066\_West



GS0066\_South

**Point ID:** GS0066

**Northing:** 4089690.91 Meters

**Easting:** 630421.96 Meters

**Orthometric Height:** 1625.095 Meters

**Latitude:** 36 56 39.331181 N

**Longitude:** 109 32 07.093569 W

**Ellipsoid Height:** 1604.297 Meters

## GS0069



**Point ID:** GS0069

**Northing:** 4089609.318 Meters

**Easting:** 656192.056 Meters

**Orthometric Height:** 1632.256 Meters

**Latitude:** 36 56 22.568500 N

**Longitude:** 109 14 45.687155 W

**Ellipsoid Height:** 1611.71 Meters

## GS0070



**Point ID:** GS0070

**Northing:** 4089580.635 Meters

**Easting:** 656224.542 Meters

**Orthometric Height:** 1632.382 Meters

**Latitude:** 36 56 21.618740 N

**Longitude:** 109 14 44.395726 W

**Ellipsoid Height:** 1611.836 Meters

**GS0073**



**Point ID:** GS0073

**Northing:** 4088853.965 Meters

**Easting:** 664831.172 Meters

**Orthometric Height:** 1585.067 Meters

**Latitude:** 36 55 52.768890 N

**Longitude:** 109 08 57.191115 W

**Ellipsoid Height:** 1564.478 Meters

## GS0076



GS0076\_North



GS0076\_East



GS0076\_West



GS0076\_South

**Point ID:** GS0076

**Northing:** 4091732.394 Meters

**Easting:** 646284.093 Meters

**Orthometric Height:** 1651.273 Meters

**Latitude:** 36 57 37.165783 N

**Longitude:** 109 21 24.598035 W

**Ellipsoid Height:** 1630.672 Meters

## GS0086



GS0086\_North



GS0086\_East



GS0086\_West



GS0086\_South

**Point ID:** GS0086

**Northing:** 4065399.9 Meters

**Easting:** 622293.142 Meters

**Orthometric Height:** 1524.19 Meters

**Latitude:** 36 43 35.171827 N

**Longitude:** 109 37 49.722325 W

**Ellipsoid Height:** 1503.395 Meters

**GS0087**



**Point ID:** GS0087

**Northing:** 4065373.933 Meters

**Easting:** 622301.226 Meters

**Orthometric Height:** 1524.27 Meters

**Latitude:** 36 43 34.325591 N

**Longitude:** 109 37 49.411484 W

**Ellipsoid Height:** 1503.476 Meters

**GS0088**



**Point ID:** GS0088

**Northing:** 4065344.132 Meters

**Easting:** 622314.492 Meters

**Orthometric Height:** 1524.328 Meters

**Latitude:** 36 43 33.352552 N

**Longitude:** 109 37 48.893948 W

**Ellipsoid Height:** 1503.534 Meters

## GS0090



**Point ID:** GS0090

**Northing:** 4056556.297 Meters

**Easting:** 614078.809 Meters

**Orthometric Height:** 1668.898 Meters

**Latitude:** 36 38 51.918279 N

**Longitude:** 109 43 25.552322 W

**Ellipsoid Height:** 1648.207 Meters

## GS0092



**Point ID:** GS0092

**Northing:** 4056589.824 Meters

**Easting:** 614074.111 Meters

**Orthometric Height:** 1669.289 Meters

**Latitude:** 36 38 53.008095 N

**Longitude:** 109 43 25.723547 W

**Ellipsoid Height:** 1648.598 Meters

## GS0095



**Point ID:** GS0095

**Northing:** 4052215.461 Meters

**Easting:** 616584.586 Meters

**Orthometric Height:** 1620.9 Meters

**Latitude:** 36 36 29.984423 N

**Longitude:** 109 41 47.030231 W

**Ellipsoid Height:** 1600.264 Meters

## GS0096



**Point ID:** GS0096

**Northing:** 4052218.711 Meters

**Easting:** 616555.107 Meters

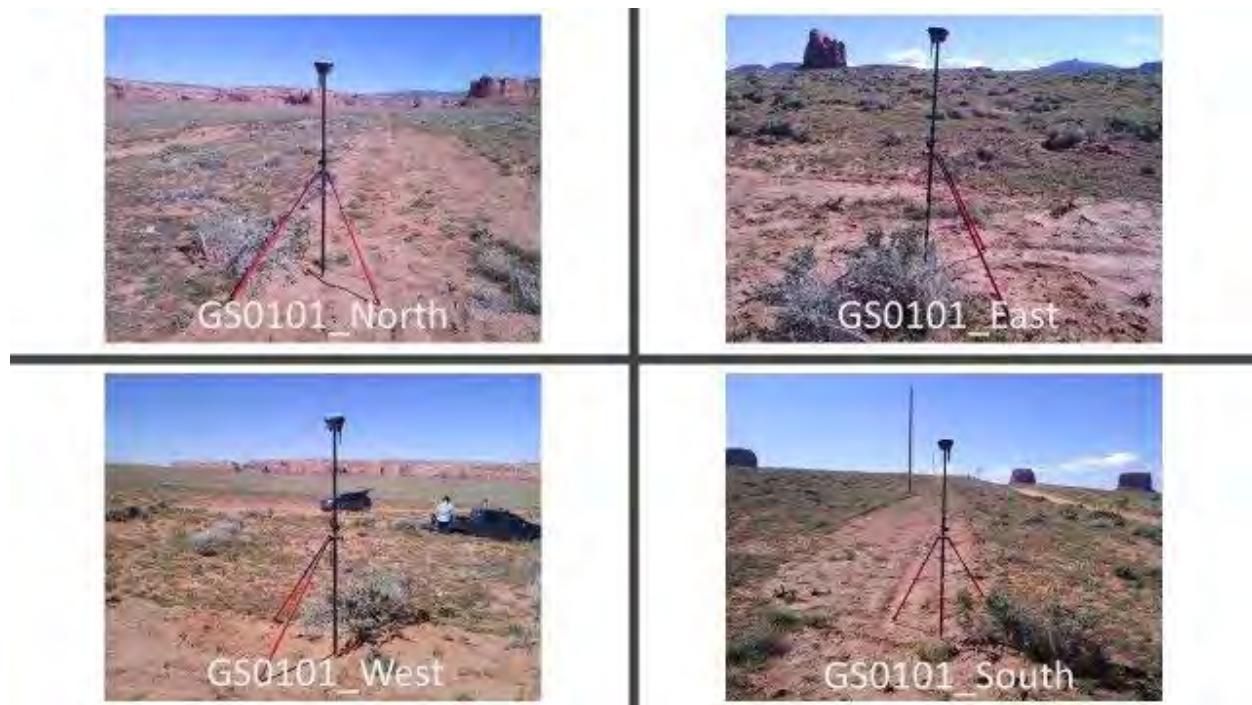
**Orthometric Height:** 1621.223 Meters

**Latitude:** 36 36 30.102874 N

**Longitude:** 109 41 48.214816 W

**Ellipsoid Height:** 1600.586 Meters

## GS0101



**Point ID:** GS0101

**Northing:** 4052952.685 Meters

**Easting:** 645697.639 Meters

**Orthometric Height:** 1773.51 Meters

**Latitude:** 36 36 39.483141 N

**Longitude:** 109 22 15.002929 W

**Ellipsoid Height:** 1753.256 Meters

## GS0102



GS0102\_North



GS0102\_East



GS0102\_West



GS0102\_South

**Point ID:** GS0102

**Northing:** 4052972.935 Meters

**Easting:** 645718.897 Meters

**Orthometric Height:** 1773.7 Meters

**Latitude:** 36 36 40.128388 N

**Longitude:** 109 22 14.133653 W

**Ellipsoid Height:** 1753.447 Meters

## GS0104



**Point ID:** GS0104

**Northing:** 4055687.92 Meters

**Easting:** 648759.776 Meters

**Orthometric Height:** 1773.523 Meters

**Latitude:** 36 38 06.512280 N

**Longitude:** 109 20 09.877123 W

**Ellipsoid Height:** 1753.34 Meters

## GS0106



**Point ID:** GS0106

**Northing:** 4055664.862 Meters

**Easting:** 648746.395 Meters

**Orthometric Height:** 1772.318 Meters

**Latitude:** 36 38 05.771813 N

**Longitude:** 109 20 10.431833 W

**Ellipsoid Height:** 1752.135 Meters

## GS0110



**Point ID:** GS0110

**Northing:** 4048863.387 Meters

**Easting:** 643033.693 Meters

**Orthometric Height:** 1769.264 Meters

**Latitude:** 36 34 28.272685 N

**Longitude:** 109 24 04.938484 W

**Ellipsoid Height:** 1748.969 Meters

## GS0114



**Point ID:** GS0114

**Northing:** 4035502.858 Meters

**Easting:** 645620.827 Meters

**Orthometric Height:** 1803.153 Meters

**Latitude:** 36 27 13.428787 N

**Longitude:** 109 22 29.952001 W

**Ellipsoid Height:** 1783.207 Meters

**GS0120**



**Point ID:** GS0120

**Northing:** 4032996.807 Meters

**Easting:** 651329.3 Meters

**Orthometric Height:** 1864.878 Meters

**Latitude:** 36 25 48.947503 N

**Longitude:** 109 18 42.474833 W

**Ellipsoid Height:** 1845.177 Meters

## GS0123



**Point ID:** GS0123

**Northing:** 4019921.09 Meters

**Easting:** 660085.737 Meters

**Orthometric Height:** 2149.007 Meters

**Latitude:** 36 18 39.660885 N

**Longitude:** 109 13 00.648410 W

**Ellipsoid Height:** 2129.694 Meters

**GS0129**



**Point ID:** GS0129

**Northing:** 4025943.751 Meters

**Easting:** 657229.317 Meters

**Orthometric Height:** 2025.381 Meters

**Latitude:** 36 21 56.731134 N

**Longitude:** 109 14 50.763735 W

**Ellipsoid Height:** 2005.981 Meters

## GS0139



**Point ID:** GS0139

**Northing:** 4003964.465 Meters

**Easting:** 633142.878 Meters

**Orthometric Height:** 1782.057 Meters

**Latitude:** 36 10 16.703717 N

**Longitude:** 109 31 10.457127 W

**Ellipsoid Height:** 1761.968 Meters

## GS0142



GS0142\_North



GS0142\_East



GS0142\_West



GS0142\_South

**Point ID:** GS0142

**Northing:** 4011110.215 Meters

**Easting:** 645591.962 Meters

**Orthometric Height:** 2078.565 Meters

**Latitude:** 36 14 02.086652 N

**Longitude:** 109 22 47.530877 W

**Ellipsoid Height:** 2058.897 Meters

## GS0145



GS0145\_North



GS0145\_East



GS0145\_West



GS0145\_South

**Point ID:** GS0145

**Northing:** 3925328.191 Meters

**Easting:** 606146.667 Meters

**Orthometric Height:** 1819.395 Meters

**Latitude:** 35 27 56.843676 N

**Longitude:** 109 49 48.462745 W

**Ellipsoid Height:** 1797.257 Meters

**GS0148**



GS0148\_North



GS0148\_East



GS0148\_West



GS0148\_South

**Point ID:** GS0148

**Northing:** 3925939.736 Meters

**Easting:** 619302.099 Meters

**Orthometric Height:** 1949.501 Meters

**Latitude:** 35 28 11.317427 N

**Longitude:** 109 41 06.293042 W

**Ellipsoid Height:** 1927.504 Meters

**GS0153**



**Point ID:** GS0153

**Northing:** 3932321.038 Meters

**Easting:** 604193.263 Meters

**Orthometric Height:** 1805.509 Meters

**Latitude:** 35 31 44.530750 N

**Longitude:** 109 51 02.721746 W

**Ellipsoid Height:** 1783.656 Meters

**GS0159**



GS0159\_North



GS0159\_East



GS0159\_West



GS0159\_South

**Point ID:** GS0159

**Northing:** 3938145.565 Meters

**Easting:** 609518.455 Meters

**Orthometric Height:** 1829.199 Meters

**Latitude:** 35 34 51.485486 N

**Longitude:** 109 47 28.474383 W

**Ellipsoid Height:** 1807.6 Meters

**GS0167**



**Point ID:** GS0167

**Northing:** 3955853.322 Meters

**Easting:** 622888.419 Meters

**Orthometric Height:** 1940.275 Meters

**Latitude:** 35 44 20.452263 N

**Longitude:** 109 38 27.640186 W

**Ellipsoid Height:** 1919.425 Meters

## GS0181



GS0181\_North



GS0181\_East



GS0181\_West



GS0181\_South

**Point ID:** GS0181

**Northing:** 3951666.449 Meters

**Easting:** 655875.651 Meters

**Orthometric Height:** 2282.435 Meters

**Latitude:** 35 41 47.791266 N

**Longitude:** 109 16 37.773875 W

**Ellipsoid Height:** 2261.854 Meters

## GS0191



**Point ID:** GS0191

**Northing:** 3970353.814 Meters

**Easting:** 626633.235 Meters

**Orthometric Height:** 1949.959 Meters

**Latitude:** 35 52 09.265227 N

**Longitude:** 109 35 50.325876 W

**Ellipsoid Height:** 1929.459 Meters

## GS0193



**Point ID:** GS0193

**Northing:** 3974615.852 Meters

**Easting:** 611834.131 Meters

**Orthometric Height:** 1864.45 Meters

**Latitude:** 35 54 34.057503 N

**Longitude:** 109 45 38.173334 W

**Ellipsoid Height:** 1843.821 Meters

## GS0199



**Point ID:** GS0199

**Northing:** 3975852.48 Meters

**Easting:** 625405.888 Meters

**Orthometric Height:** 1858.665 Meters

**Latitude:** 35 55 08.256783 N

**Longitude:** 109 36 36.136628 W

**Ellipsoid Height:** 1838.197 Meters

## GS0204



**Point ID:** GS0204

**Northing:** 3885161.732 Meters

**Easting:** 653880.102 Meters

**Orthometric Height:** 1848.316 Meters

**Latitude:** 35 05 51.080434 N

**Longitude:** 109 18 42.304376 W

**Ellipsoid Height:** 1825.434 Meters

**GS0207**



**GS0207\_North**



**GS0207\_East**



**GS0207\_West**



**GS0207\_South**

**Point ID:** GS0207

**Northing:** 3887233.308 Meters

**Easting:** 658340.495 Meters

**Orthometric Height:** 1888.525 Meters

**Latitude:** 35 06 55.809165 N

**Longitude:** 109 15 44.779510 W

**Ellipsoid Height:** 1865.794 Meters

**GS0208**



**GS0208\_North**



**GS0208\_East**



**GS0208\_West**



**GS0208\_South**

**Point ID:** GS0208

**Northing:** 3887227.569 Meters

**Easting:** 658321.378 Meters

**Orthometric Height:** 1888.306 Meters

**Latitude:** 35 06 55.633764 N

**Longitude:** 109 15 45.538350 W

**Ellipsoid Height:** 1865.575 Meters

## GS0210



**Point ID:** GS0210

**Northing:** 3888117.663 Meters

**Easting:** 652497.914 Meters

**Orthometric Height:** 1888.259 Meters

**Latitude:** 35 07 27.752024 N

**Longitude:** 109 19 34.913635 W

**Ellipsoid Height:** 1865.431 Meters

## GS0211



GS0211\_North



GS0211\_East



GS0211\_West



GS0211\_South

**Point ID:** GS0211

**Northing:** 3888098.053 Meters

**Easting:** 652506.86 Meters

**Orthometric Height:** 1887.78 Meters

**Latitude:** 35 07 27.110852 N

**Longitude:** 109 19 34.573340 W

**Ellipsoid Height:** 1864.951 Meters

**GS0215**



GS0215\_North



GS0215\_East



GS0215\_West



GS0215\_South

**Point ID:** GS0215

**Northing:** 3895075.666 Meters

**Easting:** 642677.996 Meters

**Orthometric Height:** 1754.232 Meters

**Latitude:** 35 11 18.722121 N

**Longitude:** 109 25 58.429112 W

**Ellipsoid Height:** 1731.357 Meters

**GS0218**



GS0218\_North



GS0218\_East



GS0218\_West



GS0218\_South

**Point ID:** GS0218

**Northing:** 3898550.045 Meters

**Easting:** 651375.627 Meters

**Orthometric Height:** 1795.19 Meters

**Latitude:** 35 13 06.873673 N

**Longitude:** 109 20 12.346202 W

**Ellipsoid Height:** 1772.625 Meters

**GS0223**



**Point ID:** GS0223

**Northing:** 3902681.697 Meters

**Easting:** 642124.829 Meters

**Orthometric Height:** 1868.127 Meters

**Latitude:** 35 15 25.816448 N

**Longitude:** 109 26 15.564923 W

**Ellipsoid Height:** 1845.508 Meters

## GS0224



**Point ID:** GS0224

**Northing:** 3902703.618 Meters

**Easting:** 642128.241 Meters

**Orthometric Height:** 1867.44 Meters

**Latitude:** 35 15 26.526034 N

**Longitude:** 109 26 15.416279 W

**Ellipsoid Height:** 1844.822 Meters

**GS0228**



**Point ID:** GS0228

**Northing:** 3909401.688 Meters

**Easting:** 642557.179 Meters

**Orthometric Height:** 1911.86 Meters

**Latitude:** 35 19 03.652629 N

**Longitude:** 109 25 54.256219 W

**Ellipsoid Height:** 1889.512 Meters

**GS0229**



GS0229\_North



GS0229\_East



GS0229\_West



GS0229\_South

**Point ID:** GS0229

**Northing:** 3909420.249 Meters

**Easting:** 642557.638 Meters

**Orthometric Height:** 1911.987 Meters

**Latitude:** 35 19 04.254692 N

**Longitude:** 109 25 54.226432 W

**Ellipsoid Height:** 1889.64 Meters

## GS0244



**Point ID:** GS0244

**Northing:** 3910435.68 Meters

**Easting:** 626412.43 Meters

**Orthometric Height:** 1803.955 Meters

**Latitude:** 35 19 45.029852 N

**Longitude:** 109 36 32.889204 W

**Ellipsoid Height:** 1781.314 Meters

## GS0248



**Point ID:** GS0248

**Northing:** 3912054.798 Meters

**Easting:** 628230.55 Meters

**Orthometric Height:** 1815.986 Meters

**Latitude:** 35 20 36.737683 N

**Longitude:** 109 35 19.980554 W

**Ellipsoid Height:** 1793.428 Meters

## GS0249



**Point ID:** GS0249

**Northing:** 3912070.436 Meters

**Easting:** 628237.933 Meters

**Orthometric Height:** 1816.56 Meters

**Latitude:** 35 20 37.241762 N

**Longitude:** 109 35 19.679341 W

**Ellipsoid Height:** 1794.003 Meters

**GS0253**



GS0253\_North



GS0253\_East



GS0253\_West



GS0253\_South

**Point ID:** GS0253

**Northing:** 3921545.415 Meters

**Easting:** 634763.44 Meters

**Orthometric Height:** 1935.722 Meters

**Latitude:** 35 25 41.608471 N

**Longitude:** 109 30 55.606340 W

**Ellipsoid Height:** 1913.663 Meters

## GS0261



GS0261\_North



GS0261\_East



GS0261\_West



GS0261\_South

**Point ID:** GS0261

**Northing:** 3926415.045 Meters

**Easting:** 633404.476 Meters

**Orthometric Height:** 1999.107 Meters

**Latitude:** 35 28 20.285430 N

**Longitude:** 109 31 46.609410 W

**Ellipsoid Height:** 1977.258 Meters

**GS0272**



GS0272\_North



GS0272\_East



GS0272\_West

**Point ID:** GS0272

**Northing:** 3930187.994 Meters

**Easting:** 634053.274 Meters

**Orthometric Height:** 1957.489 Meters

**Latitude:** 35 30 22.400768 N

**Longitude:** 109 31 18.631130 W

**Ellipsoid Height:** 1935.815 Meters

**GS0273**



**Point ID:** GS0273

**Northing:** 3930170.924 Meters

**Easting:** 634037.819 Meters

**Orthometric Height:** 1957.277 Meters

**Latitude:** 35 30 21.854368 N

**Longitude:** 109 31 19.254628 W

**Ellipsoid Height:** 1935.602 Meters

## GS0284



GS0284\_North



GS0284\_East



GS0284\_West



GS0284\_South

**Point ID:** GS0284

**Northing:** 4007673.132 Meters

**Easting:** 615563.612 Meters

**Orthometric Height:** 1828.345 Meters

**Latitude:** 36 12 25.169360 N

**Longitude:** 109 42 51.994870 W

**Ellipsoid Height:** 1807.962 Meters

## GS0285



GS0285\_North



GS0285\_East



GS0285\_West



GS0285\_South

**Point ID:** GS0285

**Northing:** 4007686.951 Meters

**Easting:** 615575.528 Meters

**Orthometric Height:** 1828.446 Meters

**Latitude:** 36 12 25.612637 N

**Longitude:** 109 42 51.510440 W

**Ellipsoid Height:** 1808.063 Meters

**GS0289**



**GS0289\_North**



**GS0289\_East**



**GS0289\_West**



**GS0289\_South**

**Point ID:** GS0289

**Northing:** 4013148.958 Meters

**Easting:** 615022.33 Meters

**Orthometric Height:** 1714.707 Meters

**Latitude:** 36 15 23.081350 N

**Longitude:** 109 43 10.770665 W

**Ellipsoid Height:** 1694.294 Meters

## GS0292



**Point ID:** GS0292

**Northing:** 4006333.833 Meters

**Easting:** 619036.414 Meters

**Orthometric Height:** 1733.766 Meters

**Latitude:** 36 11 40.196086 N

**Longitude:** 109 40 33.683652 W

**Ellipsoid Height:** 1713.403 Meters

## GS0293



GS0293\_North



GS0293\_East



GS0293\_West



GS0293\_South

**Point ID:** GS0293

**Northing:** 4006342.885 Meters

**Easting:** 619063.276 Meters

**Orthometric Height:** 1733.322 Meters

**Latitude:** 36 11 40.477918 N

**Longitude:** 109 40 32.603364 W

**Ellipsoid Height:** 1712.959 Meters

**GS0297**



**Point ID:** GS0297

**Northing:** 3992539.98 Meters

**Easting:** 611005.128 Meters

**Orthometric Height:** 1795.468 Meters

**Latitude:** 36 04 16.034335 N

**Longitude:** 109 46 02.200075 W

**Ellipsoid Height:** 1775.052 Meters

## GS0298



**Point ID:** GS0298

**Northing:** 3992513.037 Meters

**Easting:** 610997.535 Meters

**Orthometric Height:** 1795.233 Meters

**Latitude:** 36 04 15.163176 N

**Longitude:** 109 46 02.517231 W

**Ellipsoid Height:** 1774.817 Meters

## GS0302



GS0302\_North



GS0302\_East



GS0302\_West



GS0302\_South

**Point ID:** GS0302

**Northing:** 3992156.982 Meters

**Easting:** 601436.188 Meters

**Orthometric Height:** 1847.775 Meters

**Latitude:** 36 04 07.370378 N

**Longitude:** 109 52 24.857926 W

**Ellipsoid Height:** 1827.314 Meters

### GS0303



**Point ID:** GS0303

**Northing:** 3992173.262 Meters

**Easting:** 601428.315 Meters

**Orthometric Height:** 1847.966 Meters

**Latitude:** 36 04 07.901640 N

**Longitude:** 109 52 25.165090 W

**Ellipsoid Height:** 1827.505 Meters

## GS0305



**Point ID:** GS0305

**Northing:** 3994050.67 Meters

**Easting:** 618637.63 Meters

**Orthometric Height:** 1724.683 Meters

**Latitude:** 36 05 01.808019 N

**Longitude:** 109 40 56.317754 W

**Ellipsoid Height:** 1704.31 Meters

## GS0306



**Point ID:** GS0306

**Northing:** 3994069.856 Meters

**Easting:** 618643.162 Meters

**Orthometric Height:** 1724.634 Meters

**Latitude:** 36 05 02.428159 N

**Longitude:** 109 40 56.086217 W

**Ellipsoid Height:** 1704.261 Meters

**GS0315**



GS0315\_North



GS0315\_East



GS0315\_West

**Point ID:** GS0315

**Northing:** 3986359.288 Meters

**Easting:** 650218.225 Meters

**Orthometric Height:** 2141.962 Meters

**Latitude:** 36 00 36.545085 N

**Longitude:** 109 19 59.273939 W

**Ellipsoid Height:** 2122.007 Meters

## GS0316



**Point ID:** GS0316

**Northing:** 3986340.169 Meters

**Easting:** 650214.089 Meters

**Orthometric Height:** 2142.272 Meters

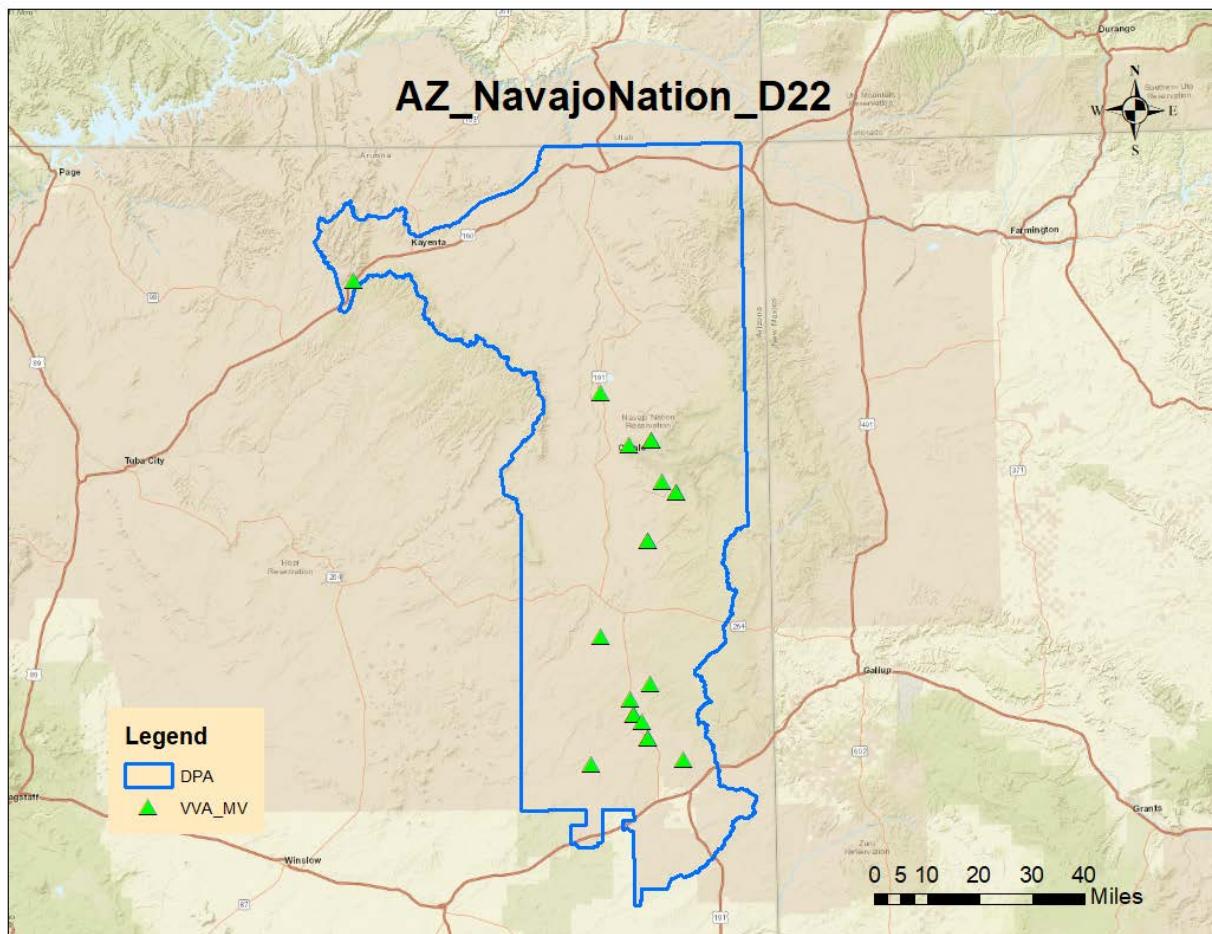
**Latitude:** 36 00 35.927078 N

**Longitude:** 109 19 59.452162 W

**Ellipsoid Height:** 2122.317 Meters

## **Vegetated Vertical Accuracy Checkpoints Medium Vegetation**

The Map shows the overall distribution of the Vegetated Vertical Accuracy Checkpoint, Medium Vegetation throughout the AOI. The following tables contain a list of the control using Easting, Northing, and Orthometric height. The coordinate system displayed is Universal Transverse Mercator UTM Zone 12, North American Datum 1983 (2011), North American Vertical Datum of 1988, Geoid 18 and using Meters for measurement.



**TABLE: Medium Vegetation**

Point ID	Easting	Northing	Ortho
<b>GS0006</b>	624574.335	4019839.252	1627.333
<b>GS0034</b>	549158.683	4054193.433	1905.762
<b>GS0135</b>	640157.321	4005446.509	1969.125
<b>GS0136</b>	640166.141	4005513.127	1969.807
<b>GS0138</b>	633119.687	4003915.287	1782.986
<b>GS0164</b>	624658.588	3945566.916	1990.764
<b>GS0231</b>	649679.464	3907984.503	1962.626
<b>GS0235</b>	638880.862	3914447.451	1923.99
<b>GS0236</b>	638863.966	3914448.129	1922.858
<b>GS0239</b>	621479.47	3906561.566	1786.851
<b>GS0251</b>	634734.223	3921546.997	1936.115
<b>GS0252</b>	634751.753	3921560.346	1935.982
<b>GS0255</b>	637173.833	3919584.085	1946.201
<b>GS0259</b>	633404.727	3926334.415	1995.904
<b>GS0264</b>	639508.895	3931114.297	2055.582
<b>GS0279</b>	638827.879	3974930.763	1914.488
<b>GS0280</b>	638843.177	3974937.694	1915.307
<b>GS0311</b>	647671.323	3989683.787	2081.774
<b>GS0312</b>	647621.358	3989689.356	2081.658
<b>GS0319</b>	643318.755	3992958.647	2038.579

## GS0006



GS0006\_North



GS0006\_East



GS0006\_West



GS0006\_South

**Point ID:** GS0006

**Northing:** 4019839.252 Meters

**Easting:** 624574.335 Meters

**Orthometric Height:** 1627.333 Meters

**Latitude:** 36 18 55.889973 N

**Longitude:** 109 36 44.252952 W

**Ellipsoid Height:** 1606.971 Meters

## GS0034



**Point ID:** GS0034

**Northing:** 4054193.433 Meters

**Easting:** 549158.683 Meters

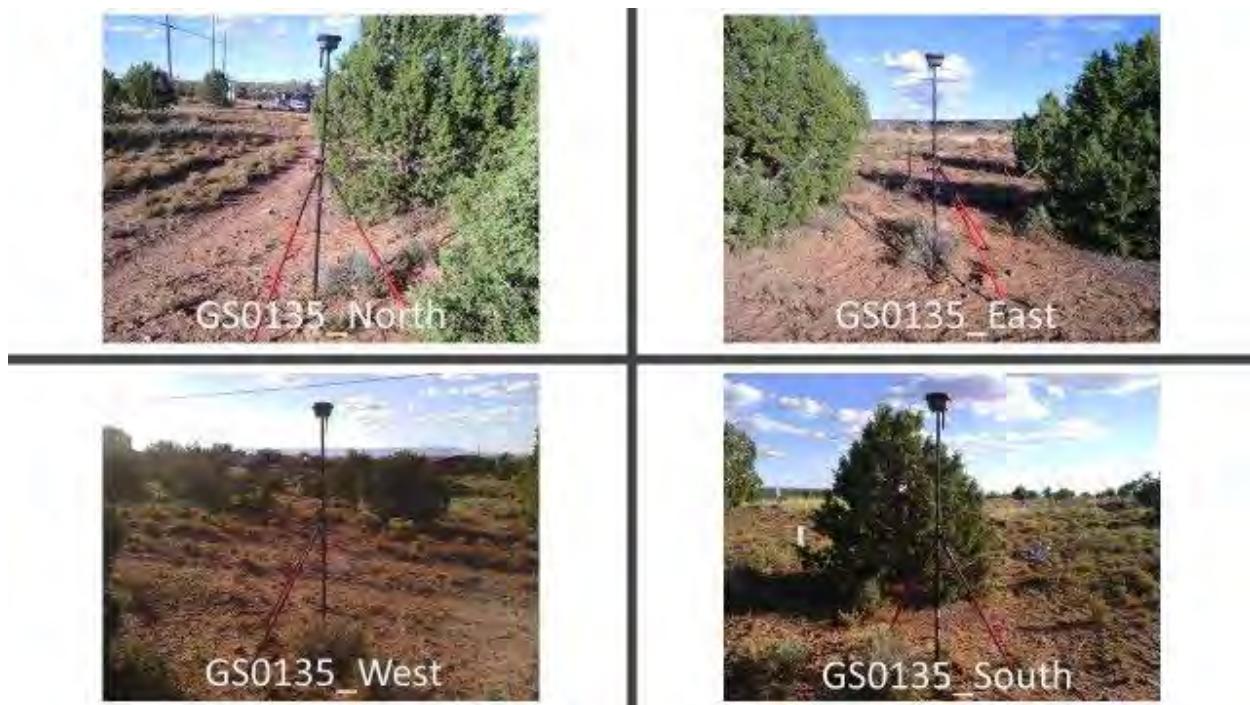
**Orthometric Height:** 1905.762 Meters

**Latitude:** 36 37 55.280651 N

**Longitude:** 110 27 00.530810 W

**Ellipsoid Height:** 1885.438 Meters

**GS0135**



**Point ID:** GS0135

**Northing:** 4005446.509 Meters

**Easting:** 640157.321 Meters

**Orthometric Height:** 1969.125 Meters

**Latitude:** 36 11 01.224959 N

**Longitude:** 109 26 28.816466 W

**Ellipsoid Height:** 1949.263 Meters

**GS0136**



**Point ID:** GS0136

**Northing:** 4005513.127 Meters

**Easting:** 640166.141 Meters

**Orthometric Height:** 1969.807 Meters

**Latitude:** 36 11 03.381726 N

**Longitude:** 109 26 28.420613 W

**Ellipsoid Height:** 1949.945 Meters

**GS0138**



**GS0138\_North**



**GS0138\_East**



**GS0138\_West**



**GS0138\_South**

**Point ID:** GS0138

**Northing:** 4003915.287 Meters

**Easting:** 633119.687 Meters

**Orthometric Height:** 1782.986 Meters

**Latitude:** 36 10 15.119614 N

**Longitude:** 109 31 11.415199 W

**Ellipsoid Height:** 1762.896 Meters

## GS0164



**Point ID:** GS0164

**Northing:** 3945566.916 Meters

**Easting:** 624658.588 Meters

**Orthometric Height:** 1990.764 Meters

**Latitude:** 35 38 45.860309 N

**Longitude:** 109 37 22.927041 W

**Ellipsoid Height:** 1969.552 Meters

**GS0231**



GS0231\_North



GS0231\_East



GS0231\_West



GS0231\_South

**Point ID:** GS0231

**Northing:** 3907984.503 Meters

**Easting:** 649679.464 Meters

**Orthometric Height:** 1962.626 Meters

**Latitude:** 35 18 13.919065 N

**Longitude:** 109 21 13.223210 W

**Ellipsoid Height:** 1940.395 Meters

## GS0235



**Point ID:** GS0235

**Northing:** 3914447.451 Meters

**Easting:** 638880.862 Meters

**Orthometric Height:** 1923.99 Meters

**Latitude:** 35 21 49.248313 N

**Longitude:** 109 28 16.720212 W

**Ellipsoid Height:** 1901.745 Meters

**GS0236**



**Point ID:** GS0236

**Northing:** 3914448.129 Meters

**Easting:** 638863.966 Meters

**Orthometric Height:** 1922.858 Meters

**Latitude:** 35 21 49.278758 N

**Longitude:** 109 28 17.389091 W

**Ellipsoid Height:** 1900.613 Meters

**GS0239**



**Point ID:** GS0239

**Northing:** 3906561.566 Meters

**Easting:** 621479.47 Meters

**Orthometric Height:** 1786.851 Meters

**Latitude:** 35 17 41.509919 N

**Longitude:** 109 39 50.300261 W

**Ellipsoid Height:** 1764.003 Meters

**GS0251**



GS0251\_North



GS0251\_East



GS0251\_West



GS0251\_South

**Point ID:** GS0251

**Northing:** 3921546.997 Meters

**Easting:** 634734.223 Meters

**Orthometric Height:** 1936.115 Meters

**Latitude:** 35 25 41.674045 N

**Longitude:** 109 30 56.763731 W

**Ellipsoid Height:** 1914.055 Meters

**GS0252**



**Point ID:** GS0252

**Northing:** 3921560.346 Meters

**Easting:** 634751.753 Meters

**Orthometric Height:** 1935.982 Meters

**Latitude:** 35 25 42.098692 N

**Longitude:** 109 30 56.060775 W

**Ellipsoid Height:** 1913.923 Meters

**GS0255**



**Point ID:** GS0255

**Northing:** 3919584.085 Meters

**Easting:** 637173.833 Meters

**Orthometric Height:** 1946.201 Meters

**Latitude:** 35 24 36.779285 N

**Longitude:** 109 29 21.233920 W

**Ellipsoid Height:** 1924.107 Meters

## GS0259



**Point ID:** GS0259

**Northing:** 3926334.415 Meters

**Easting:** 633404.727 Meters

**Orthometric Height:** 1995.904 Meters

**Latitude:** 35 28 17.668929 N

**Longitude:** 109 31 46.647106 W

**Ellipsoid Height:** 1974.051 Meters

## GS0264



GS0264\_North



GS0264\_East



GS0264\_West



GS0264\_South

**Point ID:** GS0264

**Northing:** 3931114.297 Meters

**Easting:** 639508.895 Meters

**Orthometric Height:** 2055.582 Meters

**Latitude:** 35 30 49.750623 N

**Longitude:** 109 27 41.560174 W

**Ellipsoid Height:** 2034.043 Meters

**GS0279**



**Point ID:** GS0279

**Northing:** 3974930.763 Meters

**Easting:** 638827.879 Meters

**Orthometric Height:** 1914.488 Meters

**Latitude:** 35 54 31.819835 N

**Longitude:** 109 27 41.325378 W

**Ellipsoid Height:** 1894.17 Meters

**GS0280**



**GS0280\_North**



**GS0280\_East**



**GS0280\_West**



**GS0280\_South**

**Point ID:** GS0280

**Northing:** 3974937.694 Meters

**Easting:** 638843.177 Meters

**Orthometric Height:** 1915.307 Meters

**Latitude:** 35 54 32.036902 N

**Longitude:** 109 27 40.710911 W

**Ellipsoid Height:** 1894.99 Meters

## GS0311



**Point ID:** GS0311

**Northing:** 3989683.787 Meters

**Easting:** 647671.323 Meters

**Orthometric Height:** 2081.774 Meters

**Latitude:** 36 02 25.806703 N

**Longitude:** 109 21 38.742163 W

**Ellipsoid Height:** 2061.844 Meters

**GS0312**



**Point ID:** GS0312

**Northing:** 3989689.356 Meters

**Easting:** 647621.358 Meters

**Orthometric Height:** 2081.658 Meters

**Latitude:** 36 02 26.014696 N

**Longitude:** 109 21 40.734353 W

**Ellipsoid Height:** 2061.728 Meters

## GS0319



**Point ID:** GS0319

**Northing:** 3992958.647 Meters

**Easting:** 643318.755 Meters

**Orthometric Height:** 2038.579 Meters

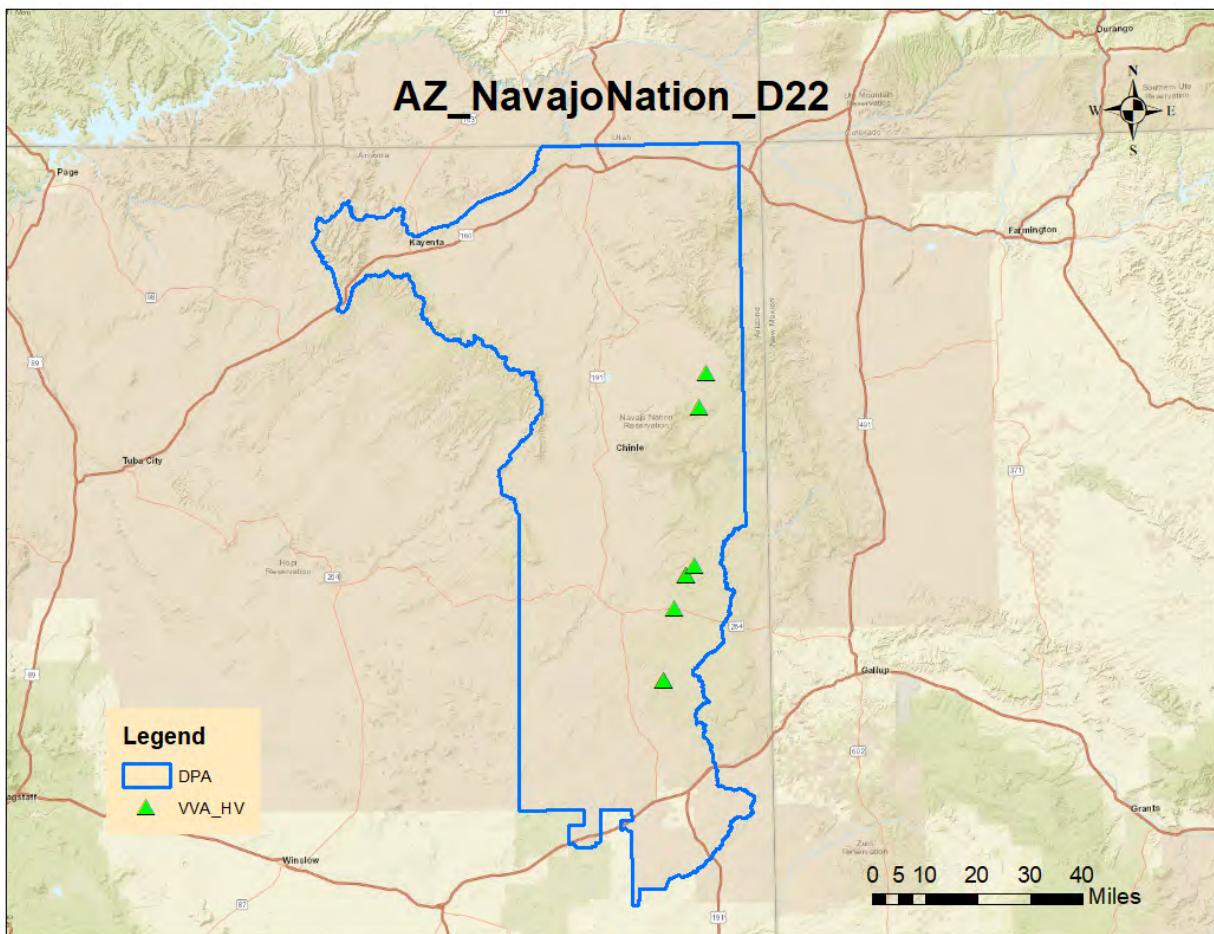
**Latitude:** 36 04 14.400768 N

**Longitude:** 109 24 30.479283 W

**Ellipsoid Height:** 2018.682 Meters

## Vegetated Vertical Accuracy Checkpoints High Vegetation

The Map shows the overall distribution of the Vegetated Vertical Accuracy Checkpoint, High Vegetation throughout the AOI. The following tables contain a list of the control using Easting, Northing, and Orthometric height. The coordinate system displayed is Universal Transverse Mercator UTM Zone 12, North American Datum 1983 (2011), North American Vertical Datum of 1988, Geoid 18 and using Meters for measurement.



**TABLE: High Vegetation**

Point ID	Easting	Northing	Ortho
<b>GS0128</b>	657216.833	4025965.577	2023.609
<b>GS0132</b>	655093.34	4015772.494	2175.163
<b>GS0169</b>	651229.126	3964355.428	2222.701
<b>GS0170</b>	651235.032	3964388.127	2223.771
<b>GS0172</b>	653818.595	3967180.031	2330.316
<b>GS0176</b>	647606.534	3954044.613	2182.8
<b>GS0268</b>	644239.793	3931998.154	2173.653
<b>GS0269</b>	644257.35	3932005.037	2173.732

**GS0128**



**GS0128\_North**



**GS0128\_East**



**GS0128\_West**



**GS0128\_South**

**Point ID:** GS0128

**Northing:** 4025965.577 Meters

**Easting:** 657216.833 Meters

**Orthometric Height:** 2023.609 Meters

**Latitude:** 36 21 57.446527 N

**Longitude:** 109 14 51.248595 W

**Ellipsoid Height:** 2004.208 Meters

**GS0132**



**GS0132\_North**



**GS0132\_East**



**GS0132\_West**



**GS0132\_South**

**Point ID:** GS0132

**Northing:** 4015772.494 Meters

**Easting:** 655093.34 Meters

**Orthometric Height:** 2175.163 Meters

**Latitude:** 36 16 28.015383 N

**Longitude:** 109 16 23.724759 W

**Ellipsoid Height:** 2155.781 Meters

## GS0169



**Point ID:** GS0169

**Northing:** 3964355.428 Meters

**Easting:** 651229.126 Meters

**Orthometric Height:** 2222.701 Meters

**Latitude:** 35 48 42.089796 N

**Longitude:** 109 19 33.967460 W

**Ellipsoid Height:** 2202.358 Meters

**GS0170**



GS0170\_North



GS0170\_East



GS0170\_West



GS0170\_South

**Point ID:** GS0170

**Northing:** 3964388.127 Meters

**Easting:** 651235.032 Meters

**Orthometric Height:** 2223.771 Meters

**Latitude:** 35 48 43.147429 N

**Longitude:** 109 19 33.709958 W

**Ellipsoid Height:** 2203.429 Meters

**GS0172**



GS0172 North



GS0172 East



GS0172 West



GS0172 South

**Point ID:** GS0172

**Northing:** 3967180.031 Meters

**Easting:** 653818.595 Meters

**Orthometric Height:** 2330.316 Meters

**Latitude:** 35 50 12.282288 N

**Longitude:** 109 17 48.867363 W

**Ellipsoid Height:** 2310.082 Meters

**GS0176**



**Point ID:** GS0176

**Northing:** 3954044.613 Meters

**Easting:** 647606.534 Meters

**Orthometric Height:** 2182.8 Meters

**Latitude:** 35 43 09.536455 N

**Longitude:** 109 22 05.102755 W

**Ellipsoid Height:** 2162.156 Meters

**GS0268**



GS0268\_North



GS0268\_East



GS0268\_West



GS0268\_South

**Point ID:** GS0268

**Northing:** 3931998.154 Meters

**Easting:** 644239.793 Meters

**Orthometric Height:** 2173.653 Meters

**Latitude:** 35 31 15.993985 N

**Longitude:** 109 24 33.243361 W

**Ellipsoid Height:** 2152.254 Meters

**GS0269**



GS0269\_N



GS0269\_East



GS0269\_West



GS0269\_South

**Point ID:** GS0269

**Northing:** 3932005.037 Meters

**Easting:** 644257.35 Meters

**Orthometric Height:** 2173.732 Meters

**Latitude:** 35 31 16.208129 N

**Longitude:** 109 24 32.542129 W

**Ellipsoid Height:** 2152.333 Meters