PROJECT ENGINEERING
CONSULTANTS, LTD.
ENGINEERS • PLANNERS • SURVEYORS

Spook Hill ADMS

Survey Report

Larry Maldonado

REGISTERED LAND SURVEYOR
CERTIFICATE NO.
16863
LARRY M.
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Date Signed 10-13-00
ARIZONA, U.S.A.

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February 7, 2001

Spook Hill ADMS

Basis of Datum:
Accuracy and Order

The unit of measurement for this project is International Feet as defined by executive order of the United States on July 1, 1959.

The vertical datum is based on NAVD88 and meets the minimum 3rd Order vertical accuracy as defined in the Federal Geodetic Control Committee report titled "Standards and Specifications for Geodetic Control Networks", dated September 1984, and as required by FEMA Document 37 "Flood Insurance Study Guidelines and Specifications for Study Contractors," dated January 1995.

The exception to this are Elevation Reference Monuments 50 ("1262 AF"), 54 ("A365"), 56 ("S269") and 58 ("Z21"). These are NGS monuments with a published vertical accuracy of First Order, Class II, and as such, are listed with that accuracy.

It is also noted that Elevation Reference Monument 57 (NGS Monument "SGC 17") is listed by the NGS as a First Order, Class 2 vertical control monument. However, the published elevation for that monument does not agree vertically with the other First Order, Class 2 monuments listed above within the control network performed for this project. The elevation obtained utilizing the First Order, Class 2 monuments listed above is listed for this monument, and not the elevation provided by the NGS.

The horizontal datum is based on NAD83 Arizona State Plane Coordinates (Central Zone), which complies with Arizona Revised Statutes 33-131and 33-132 and meets first order accuracy as defined in the Federal Geodetic Control Committee report titled "Standards and Specifications for Geodetic Control Networks", dated September 1984.

The exception to this is Elevation Reference Monument 54. This is an NGS monument with a published horizontal accuracy of "A" and as such, is listed with that accuracy.

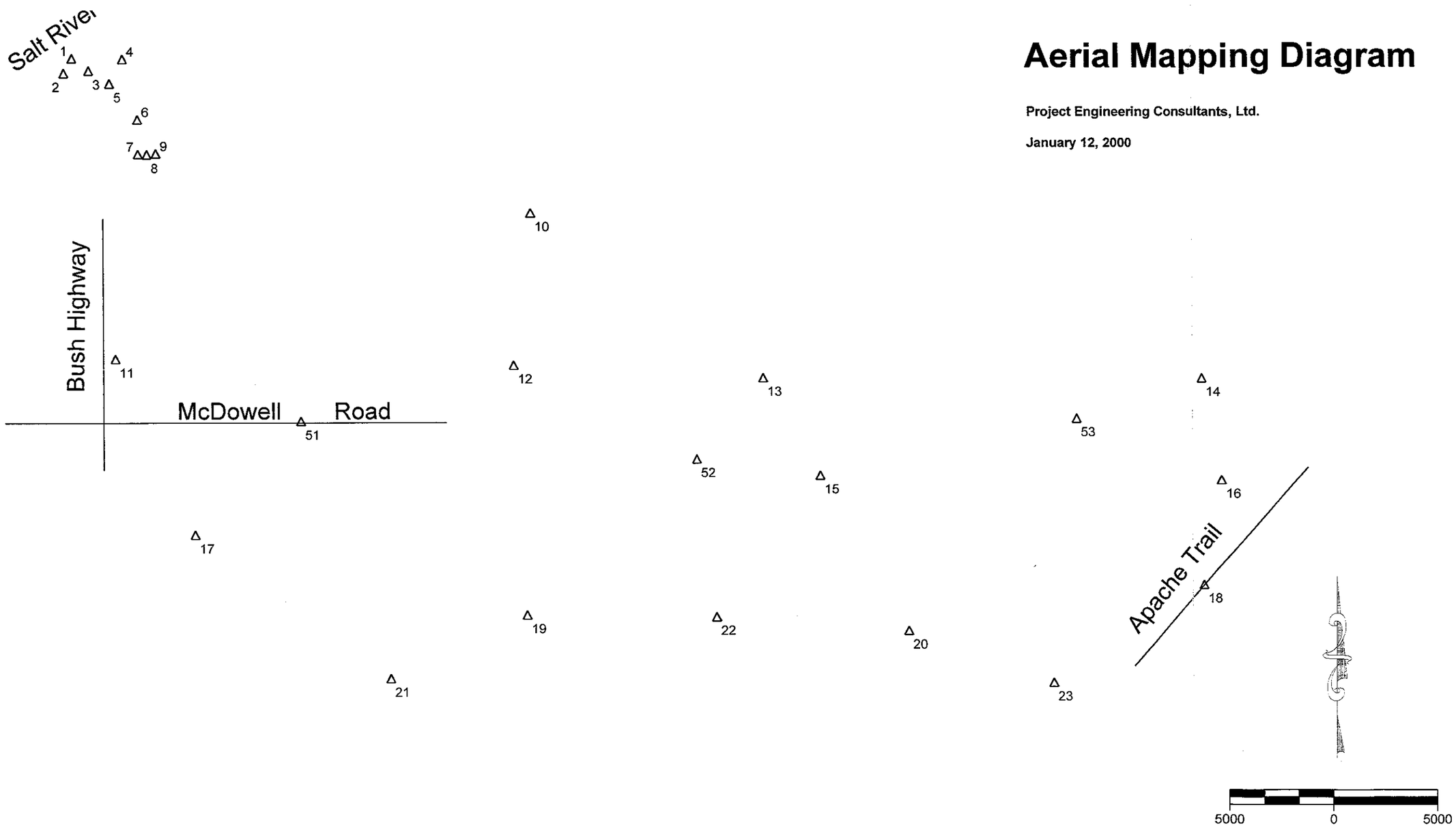
Aerial Panel Data

Spook Hill

Aerial Mapping Diagram

Project Engineering Consultants, Ltd.

January 12, 2000



Spook Hill ADMS
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Horizontal Control - NAD83
Vertical Control - NAVD88

1,	914842.65100,	769102.63100,	1317.66101,	Set Rebar
2,	914140.19000,	768711.00800,	1329.85596,	Set Rebar
3,	914253.66400,	769909.41700,	1325.11804,	Set Rebar
4,	914804.65700,	771545.91600,	1320.96497,	Set Rebar
5,	913632.08700,	770907.53900,	1359.97400,	Set PK Nail
6,	911895.71800,	772253.30800,	1447.19495,	Set Rebar
7,	910226.38100,	772265.97100,	1572.69397,	Set Rebar
8,	910210.23000,	772695.01100,	1527.96301,	Set Rebar
9,	910251.80700,	773124.17700,	1522.91296,	Set Rebar
10,	907348.22000,	791155.57200,	2118.34009,	Set PK Nail
11,	900286.08300,	771131.13900,	1573.28101,	Set Rebar
12,	899941.75400,	790309.06400,	1963.48804,	Set PK Nail
13,	899308.11800,	802364.25800,	2000.72205,	Set Rebar
14,	899271.16100,	823475.29200,	2149.36694,	Set Rebar
15,	894543.46500,	805081.35500,	1824.99304,	Set Rebar
16,	894311.37200,	824420.52900,	2009.07202,	Set Rebar
17,	891704.95700,	774926.57500,	1581.07605,	Set Rebar
18,	889229.26400,	823571.32000,	1914.28503,	Set PK Nail
19,	887792.22100,	790907.76700,	1690.02295,	BC Flush
20,	887003.72900,	809341.83900,	1758.01501,	Set Rebar
21,	884757.50200,	784320.80200,	1582.00806,	Set Rebar
22,	887681.45600,	800068.68900,	1692.24402,	Set Rebar
23,	884502.11600,	816285.64200,	1800.52502,	Set Rebar
51,	897243.30200,	780040.70800,	1724.26794,	Fd Ctn Spindle
52,	895346.37100,	799129.87400,	1817.84802,	Set Rebar
53,	897306.33300,	817401.39800,	2039.93396,	Set Rebar

ERM Data

Point No.	NAD 83 Horizontal Coordinates (Int'l Feet)	NAVD 88 Elevation (Feet)	NGVD 29 Elevation (Feet)	Elevation Datum Difference (Feet)	Section Data	Description
50	878819.729 780052.363	1486.808	1484.984	1.824		Arizona Highway Department Brass Cap cemented in outcropping of bedrock; 31.8' north of the north centerline of the westbound traffic lanes of Apache Trail (Main Street); +/-0.1 mile west of 83rd Place; Stamped "1262 AF"
54	890842.002 773936.791	1554.400	1552.523	1.877		Brass Cap cemented in rock outcropping in Falcon Park; +/-0.6 miles east of Power Road; +/-300' north of Jensen Street; stamped "A 365"
55	889821.499 781435.054	1632.585	1630.659	1.926		Arizona Department of Transportation Brass Cap flush w/concrete, stamped "KELL 1986"; +/-0.6 miles east of Ellsworth Road; +/-0.6 miles southwest of McKellips Road; +/-42' southeast of dirt road (Old Usery Pass Road)
56	885415.269 819230.477	1829.022	1827.080	1.942		Brass Cap stamped "S 269"; +/-1.8 miles northeast of Apache Trail/Old West Highway intersection; +/-69' southeast of centerline of State Highway 88; +/-0.3 miles southeast of Highway Milepost 198
57	868149.658 802086.284	1565.984	1564.193	1.791		Bureau of Reclamation Brass Cap flush w/concrete; +/-321' west of Meridian Road; +/-160' south of centerline of Superstition Freeway (U.S. 60); stamped "SGC 17"; NOTE - THIS ELEVATION DOES NOT AGREE WITH THE PUBLISHED NGS ELEVATION!
58	883058.133 816278.505	1792.172	1790.259	1.913		Brass Cap Stamped "Z 21"; +/-1.1 miles north of Apache Trail/old West Highway intersection; +/-57.5' northwest of centerline of State Highway 88; +/-225' southwest of Highway Milepost 197
1001	894510.040 776080.436	1619.147	1617.241	1.906	E¼ Corner Section 6 T1N, R7E	1" Iron Pipe in pavement @ intersection of Hermosa Vista Drive and 76th Street
1002	891872.561 776076.750	1587.454	1585.554	1.900	NE Corner Section 7 T1N, R7E	Brass Cap in Handhole @ intersection of 76th Street and McKellips Road
1003	891871.709 778719.410	1626.837	1624.918	1.919	N¼ Corner Section 8 T1N, R7E	Fd. ½" rebar flush w/pavement in center of McKellips Road, +/- ½ mile east of 76th Street
1004	891872.074 781359.387	1665.072	1663.133	1.939	NE Corner Section 8 T1N, R7E	Fd. 1" Iron Bar flush w/pavement @ intersection of McKellips Road and Hawes Road
1005	894510.760 781359.484	1706.903	1704.957	1.946	E¼ Corner Section 5 T1N, R7E	Brass Cap flush w/pavement @ intersection of Hawes Road and Hermosa Vista Drive
1006	891872.866 784000.765	1704.245	1702.303	1.942	N¼ Corner Section 9 T1N, R7E	1" Iron Pipe in pavement @ in center of McKellips Road, +/-½ mile east of Hawes Road
1007	891873.506 786642.204	1737.264	1735.315	1.949	NE Corner Section 9 T1N, R7E	1" Iron Bar in pothole (0.6' deep) in center of McKellips Road, +/- 500' east of Usery Pass
1010	889240.109 791929.160	1738.232	1736.290	1.942	E¼ Corner Section 10 T1N, R7E	General Land Office Brass Cap, +/-100' west of Crismon Road, +/-½ mile south of McKellips Road
1011	886601.603 791932.228	1673.100	1671.177	1.923	NE Corner Section 15, T1N, R7E	Brass Cap in Handhole @ intersection of Crismon Road and Brown Road
1012	886608.865 794577.750	1677.792	1675.863	1.929	N¼ Corner Section 14 T1N, R7E	Brass Cap in Handhole @ intersection of 104th Street and Brown Road
1013	886616.213 797222.393	1677.615	1675.683	1.932	NE Corner Section 14 T1N, R7E	Brass Cap in Handhole @ intersection of Brown Road and Signal Butte

Point No.	NAD 83 Horizontal Coordinates (Int'l Feet)	NAVD 88 Elevation (Feet)	NGVD 29 Elevation (Feet)	Elevation Datum Difference (Feet)	Section Data	Description
1014	889254.136 797217.234	1711.280	1709.328	1.952	E¼ Corner Section 11 T1N, R7E	1" Iron Bar (1.0' below surface) @ intersection of McLellan and Signal Butte
1015	889246.882 794572.062	1720.095	1718.149	1.946	Center of Section 11 T1N, R7E	PK Nail in center of 1" Iron Pipe @ intersection of 104th Street and McLellan
1016	886599.234 789291.071	1647.507	1645.591	1.916	N¼ Corner Section 15 T1N, R7E	Brass Cap in Handhole @ intersection of 96th Street and Brown Road
1017	889447.598 776020.080	1560.046	1558.163	1.883		Brass Cap flush w/pavement in center of cul-de-sac of McLellan Road, near center of Sossaman Road alignment)
1018	897274.768 770966.440	1554.311	1552.431	1.880	NW Corner Section 6 T1N R7E	Brass Cap in Handhole @ intersection of McDowell Road and Power Road
1020	902556.557 770961.389	1566.614	1564.718	1.896	NE Corner Section 36 T2N R6E	Brass Cap in Handhole @ intersection of Thomas Road and Power Road
1021	905197.190 770957.031	1575.751	1573.845	1.906	E¼ Corner Section 25 T2N R6E	Brass Cap in Handhole in center of median on Power Road, +/- ½ mile north of Thomas Road
1022	907837.613 770952.553	1535.607	1533.691	1.916	NE Corner Section 25 T2N R6E	Brass Cap in Handhole in center of Power Road, +/-1 mile north of Thomas Road (Indian School Road alignment)
1023	910474.061 770946.548	1507.402	1505.483	1.919	E¼ Corner Section 24 T2N R6E	Brass Cap in Handhole, +/-55' east of Power Road, +/-1½ mile north of Thomas Road
1024	913110.911 770940.383	1393.081	1391.168	1.913	NE Corner Section 24 T2N, R6E	General Land Office Brass Cap; Corner for Sections 13 & 24 (T2N, R6E) and 18 & 19 (T2N, R7E)
1026	891866.609 773567.134	1555.135	1553.255	1.880	N¼ Corner Section 7 T1N R7E	Brass Cap in Handhole @ intersection of McKellips Road and Terrapin
1027	886592.031 776062.872	1528.133	1526.273	1.860	NE Corner Section 18 T1N R7E	Brass Cap in Handhole in center of Brown Road, +/-1 mile east of Power Road
1028	886592.370 778709.159	1553.901	1552.021	1.880	N¼ Corner Section 17 T1N R7E	Brass Cap in Handhole @ intersection of 80th Street and Brown Road
1029	886591.988 781356.658	1584.757	1582.857	1.900	NE Corner Section 17 T1N R7E	Brass Cap in Handhole in center of Brown Road, +/-½ mile east of 80th Street
1030	886566.718 784001.910	1607.238	1605.335	1.903		Brass Cap in Handhole in median in center of Brown Road, +/-½ mile west of Ellsworth Road (NOT ¼ CORNER)
1031	889232.770 781357.128	1621.598	1619.679	1.919	E¼ Corner Section 8 T1N, R7E	Brass Cap flush w/concrete @ intersection of McLellan Road and 84th Street extended
1033	889235.714 786644.082	1683.944	1682.015	1.929	E¼ Corner Section 9 T1N, R7E	Fd RR Spike flush w/pavement @ intersection of McLellan Road and Ellsworth Road
1034	886597.801 786645.973	1632.621	1630.712	1.909	NE Corner Section 16 T1N, R7E	Fd RR Spike flush w/pavement @ intersection of Brown Road and Ellsworth Road
1035	883958.119 786647.102	1588.661	1586.771	1.890	E¼ Corner Section 16 T1N, R7E	Brass Cap flush w/pavement @ intersection of Ellsworth Road and Adobe Road

Point No.	NAD 83 Horizontal Coordinates (Int'l Feet)	NAVD 88 Elevation (Feet)	NGVD 29 Elevation (Feet)	Elevation Datum Difference (Feet)	Section Data	Description
1036	886623.138 799861.458	1678.734	1676.802	1.932	N¼ Corner Section 13 T1N, R7E	Brass Cap in Handhole @ intersection of Brown Road and Mountain Road (112th Street)
1037	886630.134 802500.549	1694.649	1692.720	1.929	NE Corner Section 13 T1N, R7E	Brass Cap flush w/concrete @ intersection of Brown Road (Lost Dutchman Boulevard) and Meridian Road
1038	886644.332 805116.009	1713.005	1711.076	1.929	N¼ Corner Section 18 T1N, R8E	Brass Cap in Handhole @ intersection of Lost Dutchman Boulevard and Delaware Drive
1039	886660.410 807757.582	1738.153	1736.224	1.929	NE Corner Section 18 T1N, R8E	Brass Cap flush w/pavement @ intersection of Lost Dutchman Boulevard and Ironwood Drive
1040	886663.591 810396.729	1762.156	1760.230	1.926	N¼ Corner Section 17 T1N R8E	Brass Cap flush w/pavement @ intersection of Lost Dutchman Boulevard and San Marcos Drive
1041	886669.130 813038.313	1813.806	1811.877	1.929	NE Corner Section 17 T1N, R8E	Fd Cotton Spindle flush w/pavement @ intersection of Lost Dutchman Boulevard and Idaho Road
1042	886698.008 818325.568	1833.474	1831.528	1.946	NE Corner Section 16 T1N, R8E	Brass Cap in pothole (1.0' below pavement) @ intersection of Lost Dutchman Boulevard and Tomahawk Road
1045	889306.814 813027.034	1820.787	1818.832	1.955	E¼ Corner Section 8 T1N, R8E	Brass Cap flush w/pavement in center of Idaho Road, +/-½ mile north of Lost Dutchman Boulevard
1047	889296.184 807748.106	1762.536	1760.584	1.952	E¼ Corner Section 7 T1N, R8E	Brass Cap flush w/pavement in center of Ironwood Drive, +/-½ mile north of Lost Dutchman Boulevard
1048	891933.959 807737.884	1791.298	1789.321	1.975	NE Corner Section 7 T1N, R8E	Fd 5/8" Rebar w/plastic L.S. Cap (markings illegible) in pavement @ intersection of Ironwood Drive and McKellips Road
1049	891920.931 805098.322	1775.351	1773.379	1.972	N¼ Corner Section 7 T1N, R8E	Fd Iron Bar flush w/pavement @ intersection of McKellips Road and Delaware Drive
1050	891907.375 802486.659	1774.852	1772.880	1.972	NW Corner Section 7, T1N, R8E	Brass Cap in Handhole @ intersection of McKellips Road and Meridian Road
1051	889269.185 802494.951	1721.214	1719.262	1.952	W¼ Corner Section 7, T1N, R8E	Brass Cap flush w/pavement in center of Meridian Road, +/-½ mile south of McKellips Road
1052	891935.938 770924.629	1523.638	1521.774	1.864		Brass Cap in Handhole @ intersection of McKellips Road and Power Road
1053	897256.789 776083.837	1649.629	1647.713	1.916	NE Corner Section 6 T1N, R7E	Brass Cap in Handhole @ intersection of McDowell Road and 76th Street
1054	894641.685 770945.285	1539.675	1537.805	1.870	E¼ Corner Section 1, T1N, R6E	Brass Cap in Handhole @ intersection of Power Road and Hermosa Vista Drive
1055	883953.104 781355.593	1542.313	1540.436	1.877	E¼ Corner Section 17, T1N, R7E	Brass Cap flush w/pavement in center of Hawes Road, +/-½ mile north of University Drive
1057	897265.825 773445.321	1599.705	1597.809	1.896	N¼ Corner Section 6, T1N, R7E	Brass Cap flush w/pavement in center of McDowell Road, +/-½ mile east of Power Road
1060	902548.989 768352.316	1504.741	1502.861	1.880	N¼ Corner Section 36, T2N, R6E	Brass Cap in Handhole @ intersection of 64th Street and Thomas Road

Airborne GPS Data

Photo Time (Greenwich Time)	GPS1 Northing	GPS1 Easting	GPS1 Elevation	GPS2 Northing	GPS2 Easting	GPS2 Elevation	GPS3 Northing	GPS3 Easting	GPS3 Elevation	GPS1-GPS2 Difference Northing	GPS1-GPS2 Difference Easting	GPS1-GPS2 Difference Elevation	GPS1-GPS3 Difference	GPS1-GPS3 Difference Easting	GPS1-GPS3 Difference	GPS2-GPS3 Difference	GPS2-GPS3 Difference Easting	GPS2-GPS3 Difference	Average Northing	Average Easting	Average Elevation
'17:56:44.020236	884473.68832	768436.00448	5373.55037	884473.29247	768434.75621	5375.48836	884474.07688	768437.14768	5375.49637	0.40	1.25	-1.94	-0.39	-1.14	-1.95	-0.78	-2.39	-0.01	884473.68589	768435.96946	5375.49237
'17:56:53.536429	884431.84901	770454.12264	5368.17095	884431.50058	770452.87599	5370.13136	884432.43768	770455.23148	5371.65604	0.35	1.25	-1.96	-0.59	-1.11	-3.49	-0.94	-2.36	-1.52	884431.92909	770454.07670	5369.98612
'17:57:03.055883	884392.77823	772468.36824	5379.92542	884392.54966	772466.97727	5381.49656	884393.61359	772469.48495	5384.39973	0.23	1.39	-1.57	-0.84	-1.12	-4.47	-1.06	-2.51	-2.90	884392.66395	772468.27682	5381.94057
'17:57:12.582174	884420.75877	774468.83582	5402.62738	884420.75279	774467.58078	5404.27060	884421.82094	774470.09602	5408.08210	0.01	1.26	-1.64	-1.06	-1.26	-5.45	-1.07	-2.52	-3.81	884420.75578	774468.83754	5404.99336
'17:57:22.254043	884420.78300	776491.46128	5404.31185	884420.99916	776490.56841	5406.14691	884422.07008	776492.90730	5410.70092	-0.22	0.89	-1.84	-1.29	-1.45	-6.39	-1.07	-2.34	-4.55	884420.89108	776491.64566	5407.05323
'17:57:31.996393	884415.74954	778546.04909	5390.15802	884416.02034	778545.20352	5392.10682	884417.08794	778547.36778	5396.86268	-0.27	0.85	-1.95	-1.34	-1.32	-6.70	-1.07	-2.16	-4.76	884415.88494	778546.20680	5393.04251
'17:57:41.822356	884379.45107	780647.32769	5375.68781	884378.07356	780644.97276	5369.98839	884379.41051	780647.27695	5375.24566	1.38	2.35	5.70	0.04	0.05	0.44	-1.34	-2.30	-5.26	884378.74204	780646.12486	5372.61703
'17:57:51.620804	884336.81190	782757.05275	5369.95154	884335.21430	782754.46289	5363.41309	884336.84068	782756.84929	5368.73565	1.60	2.59	6.54	-0.03	0.20	1.22	-1.63	-2.39	-5.32	884336.02749	782755.65609	5367.36676
'17:58:01.201156	884320.88196	784796.33333	5383.20426	884319.37172	784793.59165	5376.31498	884320.98264	784795.80765	5380.87900	1.51	2.74	6.89	-0.10	0.53	2.33	-1.61	-2.22	-4.56	884320.17718	784794.69965	5380.13275
'17:58:10.775131	884312.53074	786810.05473	5391.62944	884311.03387	786807.09192	5383.93476	884312.65903	786809.29168	5388.12712	1.50	2.96	7.69	-0.13	0.76	3.50	-1.63	-2.20	-4.19	884311.84645	786808.19180	5387.89711
'17:58:20.345982	884351.81141	788821.25554	5398.59481	884350.33384	788818.39531	5390.72713	884351.92952	788820.48404	5394.34518	1.48	2.86	7.87	-0.12	0.77	4.25	-1.60	-2.09	-3.62	884351.13168	788819.43968	5394.55571
'17:58:29.914811	884354.15444	790827.29602	5403.71472	884352.60090	790824.79288	5396.23991	884354.28004	790826.68550	5399.37017	1.55	2.50	7.47	-0.13	0.61	4.34	-1.68	-1.89	-3.13	884353.44047	790825.73919	5399.77493
'17:58:39.479334	884370.68274	792836.97418	5401.95215	884369.05005	792834.76204	5394.64315	884370.79453	792836.49081	5397.42297	1.63	2.21	7.31	-0.11	0.48	4.53	-1.74	-1.73	-2.78	884369.92229	792835.62643	5398.00609
'17:58:49.040970	884379.74359	794858.03843	5394.44170	884378.05269	794856.01300	5387.20599	884379.86570	794857.63977	5389.77676	1.69	2.03	7.24	-0.12	0.40	4.66	-1.81	-1.63	-2.57	884378.95920	794856.82639	5390.47482
'17:58:58.599700	884388.89473	796884.71300	5400.88043	884387.11356	796882.95745	5393.90824	884389.00249	796884.25505	5395.98600	1.78	1.76	6.97	-0.11	0.46	4.89	-1.89	-1.30	-2.08	884388.05803	796883.60625	5396.92489
'17:59:08.156597	884378.52792	798901.24568	5411.30326	884378.54298	798901.21343	5411.27803	884378.57802	798900.77943	5406.09084	-0.02	0.03	0.03	-0.05	0.47	5.21	-0.04	0.43	5.19	884378.53545	798901.22956	5411.29065
'17:59:17.735949	884378.98890	800906.74708	5412.30169	884379.00295	800906.71653	5412.29048	884379.03066	800906.21306	5406.69238	-0.01	0.03	0.01	-0.04	0.53	5.61	-0.03	0.50	5.60	884378.99593	800906.73181	5412.29609
'17:59:27.464251	884384.60168	802974.17350	5393.28628	884384.61672	802974.13786	5393.26785	884384.58159	802973.58882	5387.31933	-0.02	0.04	0.02	0.02	0.58	5.97	0.04	0.55	5.95	884384.60920	802974.15568	5393.27707
'17:59:37.189752	884401.84305	805059.02850	5389.21086	884401.86114	805058.99793	5389.19043	884401.74712	805058.44407	5383.03686	-0.02	0.03	0.02	0.10	0.58	6.17	0.11	0.55	6.15	884401.85210	805059.01322	5389.20065
'17:59:46.879080	884428.43031	807130.80090	5392.30267	884428.45242	807130.76523	5392.25901	884428.27962	807130.17429	5385.85393	-0.02	0.04	0.04	0.15	0.63	6.45	0.17	0.59	6.41	884428.44137	807130.78307	5392.28084
'17:59:56.565240	884436.64964	809207.51633	5385.44142	884436.67076	809207.48490	5385.41018	884436.44350	809206.94077	5378.87213	-0.02	0.03	0.03	0.21	0.58	6.57	0.23	0.54	6.54	884436.66020	809207.50062	5385.42580
'18:00:06.225249	884447.06383	811267.54717	5392.85615	884447.08492	811267.50642	5392.82130	884446.76702	811267.06517	5386.25722	-0.02	0.04	0.03	0.30	0.48	6.60	0.32	0.44	6.56	884447.07438	811267.52680	5392.83873
'18:00:15.883110	884436.65165	813323.89886	5387.11107	884436.67675	813323.85386	5387.06822	884436.23170	813323.47663	5380.41082	-0.03	0.04	0.04	0.42	0.42	6.70	0.45	0.38	6.66	884436.66420	813323.87636	5387.08965
'18:00:25.538384	884454.19365	815368.59304	5396.60757	884454.21877	815368.55227	5396.55590	884453.64652	815368.22215	5389.89050	-0.03	0.04	0.05	0.55	0.37	6.72	0.57	0.33	6.67	884454.20621	815368.57266	5396.58174
'18:00:35.192470	884502.78497	817420.06190	5374.90404	884502.81710	817420.00331	5374.88322	884502.21991	817419.76739	5368.16655	-0.03	0.06	0.02	0.57	0.29	6.74	0.60	0.24	6.72	884502.80104	817420.03261	5374.89363
'18:00:44.794565	884567.52360	819483.55891	5355.84337	884567.57387	819483.48838	5355.87982	884566.97272	819483.28133	5349.24525	-0.05	0.07	-0.04	0.55	0.28	6.60	0.60	0.21	6.63	884567.54874	819483.52365	5355.86160
'18:00:54.019576	884653.58905	821459.92644	5360.78065	884653.64637	821459.84910	5360.82070	884652.96836	821459.63221	5354.27464	-0.06	0.08	-0.04	0.62	0.29	6.51	0.68	0.22	6.55	884653.61771	821459.88777	5360.80068
'18:01:03.234857	884714.76944	823416.76365	5367.72720	884714.83787	823416.68712	5367.74403	884714.06581	823416.46131	5361.27406	-0.07	0.08	-0.02	0.70	0.30	6.45	0.77	0.23	6.47	884714.80366	823416.72539	5367.73562
'18:01:12.455725	884738.46379	825366.42152	5370.83743	884738.52109	825366.34333	5370.86907	884737.66810	825366.10263	5364.51565	-0.06	0.08	-0.03	0.80	0.32	6.32	0.85	0.24	6.35	884738.49244	825366.38243	5370.85325
'18:01:21.673217	884721.79028	827307.92702	5370.23669	884721.83749	827307.85310	5370.27314	884720.87639	827307.62560	5364.01984	-0.05	0.07	-0.04	0.91	0.30	6.22	0.96	0.23	6.25	884721.81389	827307.89006	5370.25492
'18:03:53.790967	888800.13820	828130.52915	5389.75913	888800.19944	828130.42637	5389.63058	888798.50743	828131.16277	5385.63606	-0.06	0.10	0.13	1.63	-0.63	4.12	1.69	-0.74	3.99	888800.16882	828130.47776	5389.69486
'18:04:03.200849	888824.54425	826329.80639	5393.04438	888824.59444	826329.71976	5392.95307	888823.00087	826330.56667	5389.11354	-0.05	0.09	0.09	1.54	-0.76	3.93	1.59	-0.85	3.84	888824.56935	826329.76308	5392.99873
'18:04:12.733720	888866.48772	824493.64292	5392.77925	888866.54498	824493.55373	5392.67793	888866.56707	824493.51551	5392.68514	-0.06	0.09	0.10	-0.08	0.13	0.09	-0.02	0.04	-0.01	888866.53326	824493.57072	5392.71411
'18:04:22.265280	888898.12617	822671.36297	5399.98372	888898.18041	822671.27463	5399.87639	888898.20249	822671.23557	5399.88400	-0.05	0.09	0.11	-0.08	0.13	0.10	-0.02	0.04	-0.01	888898.16969	822671.29106	5399.91470
'18:04:31.792300	888879.65095	820857.87135	5414.39066	888879.70520	820857.78471	5414.28293	888879.73034	820857.75242	5414.28133	-0.05	0.09	0.11	-0.08	0.12	0.11	-0.03	0.03	0.00	888879.69550	820857.80283	5414.31831
'18:04:41.357799	888873.73845	819033.04565	5407.83499	888873.79270	819032.95733	5407.71845	888873.80676	819032.93524	5407.72125	-0.05	0.09	0.12	-0.07	0.11	0.11	-0.01	0.02	0.00	888873.77930	819032.97941	5407.75823
'18:04:51.158403	888852.49517	817120.36659	5379.50771	888852.54945	817120.28504	5379.39958	888852.56453	817120.26465	5379.39357	-0.05	0.08	0.11	-0.07	0.10	0.11	-0.02	0.02	0.01	888852.53638	817120.30543	5379.43362
'18:05:00.954088	888837.85431	815195.24088	5384.03969	888837.90455	815195.15935	5383.93316	888837.92267	815195.13895	5383.93156	-0.05	0.08	0.11	-0.07	0.10	0.11	-0.02	0.02	0.00	888837.89384	815195.17973	5383.96814
'18:05:10.749314	888838.50675	813272.53481	5375.19840	888838.55802	813272.45667	5375.07826	888838.57616	813272.44136	5375.07665	-0.05	0.08	0.12	-0.07	0.09	0.12	-0.02	0.02	0.00	888838.54698	813272.47761	5375.11777
'18:05:20.540055	888783.27584	811347.71361	5376.76433	888783.32307	811347.63718	5376.64258	888783.33713	811347.61171	5376.63057	-0.05	0.08	0.12	-0.06	0.10	0.13	-0.01	0.03	0.01	888783.31201	811347.65417	5376.67916
'18:05:30.329751	888756.56072	809455.66566	5397.15504	888756.61504	809455.59091	5397.01166	888756.61798	809455.56378	5396.99805	-0.05	0.07	0.14	-0.06	0.10	0.16	0.00	0.03	0.01	888756.59791	809455.60678	5397.05492
'18:05:40.123739	888723.32345	807575.01803	5395.69604	888723.36362	807574.94079	5395.57069	888723.38175	807574.92463	5395.52984	-0.04	0.08	0.13	-0.06	0.09	0.17	-0.02	0.02	0.04	888723.35627	807574.96115	5395.59886
'18:05:50.012940	888695.73847	805673.44550	5391.37072	888695.77867	805673.37758	5391.24376	888695.79675	805673.34363	5391.18489	-0.04	0.07	0.13	-0.06	0.10	0.19	-0.02	0.03	0.06	888695.77130	805673.38890	5391.26646
'18:05:59.899572	888676.76089	803761.78527	5383.62478	888676.80816	803761.71394	5383.45377	888676.82628	803761.69185	5383.42654	-0.05	0.07	0.17	-0.07	0.09	0.20	-0.02	0.02	0.03	888676.79844	803761.73035	5383.50170
'18:06:09.784542	888663.31041	801850.59807	5381.73085	888663.35667	801850.52675	5381.55503	888663.36775	801850.51315	5381.53781	-0.05	0.07	0.18	-0.06	0.08	0.19	-0.01	0.01	0.02	888663.34494	801850.54599	5381.60790
'18:06:19.731766	888651.25944	799933.86487	5387.76908	888651.30976	799933.79862	5387.58165	888651.31074	799933.78845	5387.58606	-0.05	0.07	0.19	-0.05	0.08	0.18	0.00	0.01	0.00	888651.29331	799933.81731	5387.64560
'18:06:29.977417	888648.12325	797960.77351	5387.08024	888648.17056	797960.71151	5386.90202	888648.17759	797960.69708	5386.90242	-0.05	0.06	0.18	-0.05	0.08	0.18	-0.01	0.01	0.00	888648.15713	797960.72737	5386.96156
'18:06:40.222609	888606.54938	795977.02164	5369.73007	888606.61084	795976.95876	5369.54985	888606.60676	795976.94521	5369.53944	-0.06	0.06	0.18	-0.06	0.08	0.19	0.00	0.01	0.01	888606.58899	795976.97520	5369.60645
'18:06:50.469168	888589.08208	793987.60235	5373.95167	888589.13650	793987.54880	5373.76103	888589.14353	793987.53438	5373.75503	-0.05	0.05	0.19	-0.06	0.07	0.20	-0.01	0.01	0.01	888589.12070	793987.56184	5373.82258
'18:07:00.713640	888590.39055	792008.06719	5378.23454	888590.44800	792008.01280	5378.05272	888590.44798	792008.00771	5378.05552	-0.06	0.05	0.18	-0.06	0.06	0.18	0.00	0.01	0.00	888590.42884	792008.02923	5378.11426
'18:07:10.918797	888553.81638	790031.87810	5372.66889	888553.87787	790031.82200	5372.48106	888553.87483	790031.81862	5372.46464	-0.06	0.06	0.19	-0.06	0.06	0.20	0.00	0.00	0.02	888553.85636	790031.83957	5372.53820
'18:07:20.832390	888488.45960	788129.68732	5394.64835	888488.52111	788129.63461	5394.48215	888488.52109	788129.62783	5394.48936	-0.06	0.05	0.17	-0.06	0.06	0.16	0.00	0.01	-0.01	888488.50060	788129.64992	5394.53995
'18:07:30.735792	888456.71504	786249.89540	5403.59737	888456.78059	786249.84099	5403.42196	888456.77653	786249.83592	5403.41395	-0.07	0.05	0.18	-0.06	0.06	0.18	0.00	0.01	0.01	888456.75739	786249.85744	5403.47776
'18:07:40.645065	888444.97174	784346.98337	5382.08809	888445.03626	784346.92389	5381.90666	888445.03321	784346.91542	5381.89425	-0.06	0.06	0.18	-0.06	0.07	0.19	0.00	0.01	0.01	888445.01374	784346.94089	5381.96300
'18:07:50.555208	888415.69129	782424.47562	5368.75087	888415.75988	782424.42290	5368.57625	888415.75279	782424.41614	5368.54701	-0.07	0.05	0.17	-0.06	0.06	0.20	0.01	0.01	0.03	888415.73465	782424.43822	5368.62471
'18:08:00.526369	888398.61073	780490.56342	5374.52518	888398.68031	780490.50139	5374.33494	888398.68030	780490.49546	5374.31772	-0.07	0.06	0.19	-0.07	0.07	0.21	0.00	0.01	0.02	888398.65711	780490.52009	5374.39261
'18:08:10.493327	888378.30243	778562.66603	5372.27160	888378.37102	778562.60824	5372.08217	888378.37505	778562.60653	5372.05133	-0.07	0.06	0.19	-0.07	0.06	0.22	0.00	0.00	0.03	888378.34950	778562.62693	5372.13503

'18:08:20.473723	888361.65271	776643.07939	5380.17333	888361.71725	776643.01823	5379.99311	888361.71726	776643.01993	5379.96467	-0.06	0.06	0.18	-0.06	0.06	0.21	0.00	0.00	0.03	888361.69574	776643.03918	5380.04370
'18:08:30.661394	888351.17891	774688.97396	5385.52953	888351.24446	774688.91280	5385.34690	888351.31396	774688.81265	5385.20913	-0.07	0.06	0.18	-0.14	0.16	0.32	-0.07	0.10	0.14	888351.24578	774688.89980	5385.36185
'18:08:40.861117	888348.92543	772726.56269	5385.74179	888348.99099	772726.50322	5385.55756	888349.04557	772726.50310	5385.38535	-0.07	0.06	0.18	-0.12	0.06	0.36	-0.05	0.00	0.17	888348.98733	772726.52300	5385.56157
'18:08:51.182575	888352.68630	770734.49073	5377.41073	888352.74489	770734.47704	5377.32943	888352.80963	770734.49893	5377.11156	-0.06	0.01	0.08	-0.12	-0.01	0.30	-0.06	-0.02	0.22	888352.74694	770734.48890	5377.28391
'18:09:01.624473	888354.84773	768698.89645	5366.98469	888354.83372	768698.96003	5367.07400	888354.88134	768699.01500	5366.89258	0.01	-0.06	-0.09	-0.03	-0.12	0.09	-0.05	-0.05	0.18	888354.85426	768698.95716	5366.98376
'18:11:39.694273	892446.83331	768841.14177	5504.99663	892442.79594	768839.92545	5497.61915	892445.54647	768841.50887	5503.72106	4.04	1.22	7.38	1.29	-0.37	1.28	-2.75	-1.58	-6.10	892445.05857	768841.32532	5504.35885
'18:11:49.996975	892435.17427	771014.49900	5495.29869	892431.24596	771013.27509	5488.03855	892433.99258	771014.87443	5494.09000	3.93	1.22	7.26	1.18	-0.38	1.21	-2.75	-1.60	-6.05	892433.47094	771014.68672	5494.69435
'18:12:00.289760	892413.51998	773232.14138	5488.29807	892409.74416	773230.90299	5481.17049	892412.42631	773232.54210	5487.17949	3.78	1.24	7.13	1.09	-0.40	1.12	-2.68	-1.64	-6.01	892411.89682	773232.34174	5487.73878
'18:12:10.577537	892418.49633	775482.53799	5475.93765	892414.90653	775481.35703	5468.90499	892417.51500	775482.98935	5474.88556	3.59	1.18	7.03	0.98	-0.45	1.05	-2.61	-1.63	-5.98	892416.97262	775482.76367	5475.41161
'18:12:20.803048	892431.80194	777737.45623	5465.30616	892428.42653	777736.35973	5458.38924	892430.92998	777737.98365	5464.31053	3.38	1.10	6.92	0.87	-0.53	1.00	-2.50	-1.62	-5.92	892430.38615	777737.71994	5464.80835
'18:12:30.974339	892434.30752	779992.24056	5460.34926	892431.17184	779991.25044	5453.53927	892433.55912	779992.85245	5459.37205	3.14	0.99	6.81	0.75	-0.61	0.98	-2.39	-1.60	-5.83	892433.01283	779992.11448	5459.86066
'18:12:41.051916	892449.14734	782222.83136	5457.14131	892446.29999	782221.97796	5450.64851	892448.49838	782223.57860	5456.18973	2.85	0.85	6.49	0.65	-0.75	0.95	-2.20	-1.60	-5.54	892447.98190	782222.79597	5456.66552
'18:12:50.520726	892455.23768	784315.55892	5462.40619	892452.77568	784314.82753	5456.06678	892454.66491	784316.43309	5461.43780	2.46	0.73	6.34	0.57	-0.87	0.97	-1.89	-1.61	-5.37	892454.22609	784315.60651	5461.92200
'18:12:59.987864	892457.98460	786372.42475	5480.65466	892455.77752	786371.79196	5474.58799	892457.48083	786373.37502	5479.66224	2.21	0.63	6.07	0.50	-0.95	0.99	-1.70	-1.58	-5.07	892457.08098	786372.53058	5480.15845
'18:13:09.445180	892461.31968	788415.11602	5486.95602	892459.31295	788414.58193	5481.22376	892460.84953	788416.14248	5485.97922	2.01	0.53	5.73	0.47	-1.03	0.98	-1.54	-1.56	-4.76	892460.49405	788415.28014	5486.46762
'18:13:18.909715	892478.15099	790448.95875	5493.34589	892476.38505	790448.52323	5488.05297	892477.72865	790450.06983	5492.37069	1.77	0.44	5.29	0.42	-1.11	0.98	-1.34	-1.55	-4.32	892477.42156	790449.18394	5492.85829
'18:13:28.371246	892510.05675	792485.09530	5491.44274	892508.43660	792484.75436	5486.67447	892509.64881	792486.26566	5490.42950	1.62	0.34	4.77	0.41	-1.17	1.01	-1.21	-1.51	-3.76	892509.38072	792485.37177	5490.93612
'18:13:37.841793	892512.83949	794531.44061	5485.62157	892511.34688	794531.17056	5481.40638	892512.38837	794532.67891	5484.61634	1.49	0.27	4.22	0.45	-1.24	1.01	-1.04	-1.51	-3.21	892512.19158	794531.76336	5485.11896
'18:13:47.320965	892515.14572	796574.74715	5494.55257	892515.95778	796576.22563	5493.43600	892514.64030	796576.05342	5493.56055	-0.81	-1.48	1.12	0.51	-1.31	0.99	1.32	0.17	-0.12	892515.24793	796575.67540	5493.84971
'18:13:56.885827	892538.89874	798642.81223	5486.53510	892539.78409	798644.42768	5485.41732	892538.29863	798644.19508	5485.54708	-0.89	-1.62	1.12	0.60	-1.38	0.99	1.49	0.23	-0.13	892538.99382	798643.81166	5485.83317
'18:14:06.448052	892550.34322	800725.95345	5478.90450	892551.27958	800727.68476	5477.79113	892549.60892	800727.37913	5477.92690	-0.94	-1.73	1.11	0.73	-1.43	0.98	1.67	0.31	-0.14	892550.41057	800727.00578	5478.20751
'18:14:16.007763	892575.68189	802817.03936	5479.91455	892576.64499	802818.87388	5478.82360	892574.83864	802818.49933	5479.00903	-0.96	-1.83	1.09	0.84	-1.46	0.91	1.81	0.37	-0.19	892575.72184	802818.13752	5479.24906
'18:14:25.567211	892592.48862	804901.70466	5484.75331	892593.47447	804903.66020	5483.64554	892591.53331	804903.17353	5483.88263	-0.99	-1.96	1.11	0.96	-1.47	0.87	1.94	0.49	-0.24	892592.49880	804902.84613	5484.09383
'18:14:35.090820	892568.83432	806975.64474	5481.96467	892569.83781	806977.69674	5480.84690	892569.89226	806977.65759	5480.83488	-1.00	-2.05	1.12	-1.06	-2.01	1.13	-0.05	0.04	0.01	892569.86504	806977.67717	5480.84089
'18:14:44.600687	892580.23397	809049.63028	5478.93334	892581.23893	809051.77710	5477.81596	892581.29334	809051.72777	5477.78593	-1.00	-2.15	1.12	-1.06	-2.10	1.15	-0.05	0.05	0.03	892581.26614	809051.75244	5477.80095
'18:14:54.099643	892565.68910	811111.29530	5485.42413	892566.67939	811113.54039	5484.30756	892566.73785	811113.49443	5484.26430	-0.99	-2.25	1.12	-1.05	-2.20	1.16	-0.06	0.05	0.04	892566.70862	811113.51741	5484.28593
'18:15:03.605494	892572.52419	813177.10714	5480.42157	892573.50785	813179.43861	5479.29939	892573.56936	813179.39941	5479.27336	-0.98	-2.33	1.12	-1.05	-2.29	1.15	-0.06	0.04	0.03	892573.53861	813179.41901	5479.28638
'18:15:13.016182	892570.80500	815234.91946	5468.10360	892571.77095	815237.34074	5466.98583	892571.83645	815237.28797	5466.93617	-0.97	-2.42	1.12	-1.03	-2.37	1.17	-0.07	0.05	0.05	892571.80370	815237.31436	5466.96100
'18:15:22.296837	892577.60146	817269.56458	5466.82563	892578.53849	817272.05114	5465.69544	892578.60299	817272.00091	5465.66260	-0.94	-2.49	1.13	-1.00	-2.44	1.16	-0.06	0.05	0.03	892578.57074	817272.02603	5465.67902
'18:15:31.530360	892593.92465	819280.17279	5465.66240	892610.98996	819282.68422	5468.02471	892611.05547	819282.63314	5467.97424	-17.07	-2.51	-2.36	-17.13	-2.46	-2.31	-0.07	0.05	0.05	892611.02272	819282.65868	5467.99948
'18:15:40.648611	892593.03477	821234.04817	5493.12521	892593.88167	821236.66967	5491.98261	892593.95119	821236.61179	5491.93495	-0.85	-2.62	1.14	-0.92	-2.56	1.19	-0.07	0.06	0.05	892593.91643	821236.64073	5491.95878
'18:15:49.766940	892608.28124	823179.35662	5480.01187	892609.06691	823182.04609	5478.88368	892609.14252	823181.99665	5478.82561	-0.79	-2.69	1.13	-0.86	-2.64	1.19	-0.08	0.05	0.06	892609.10472	823182.02137	5478.85465
'18:15:58.887882	892654.15962	825134.88058	5479.77838	892654.89816	825137.62271	5478.64178	892654.96366	825137.57162	5478.59733	-0.74	-2.74	1.14	-0.80	-2.69	1.18	-0.07	0.05	0.04	892654.93091	825137.59717	5478.61956
'18:16:08.005524	892720.54483	827089.11564	5474.17308	892721.22508	827091.89693	5473.03528	892721.28749	827091.83229	5472.97881	-0.68	-2.78	1.14	-0.74	-2.72	1.19	-0.06	0.06	0.06	892721.25629	827091.86461	5473.00705
'18:16:17.134632	892747.21365	829057.40942	5459.20184	892747.84061	829060.21884	5458.05563	892747.90199	829060.15166	5457.98795	-0.63	-2.81	1.15	-0.69	-2.74	1.21	-0.06	0.07	0.07	892747.87130	829060.18525	5458.02179
'18:19:02.157853	896746.51903	828107.07149	5594.53689	896747.03313	828109.23043	5593.76153	896747.09143	828109.15311	5593.66221	-0.51	-2.16	0.78	-0.57	-2.08	0.87	-0.06	0.08	0.10	896747.06228	828109.19177	5593.71187
'18:19:11.687367	896734.74568	826256.36212	5602.65489	896735.26758	826258.48464	5601.89715	896735.32894	826258.40985	5601.79463	-0.52	-2.12	0.76	-0.58	-2.05	0.86	-0.06	0.07	0.10	896735.29826	826258.44725	5601.84589
'18:19:21.275524	896686.74244	824378.74664	5586.18621	896687.28934	824380.83182	5585.43768	896687.34361	824380.75198	5585.33316	-0.55	-2.09	0.75	-0.60	-2.01	0.85	-0.05	0.08	0.10	896687.31648	824380.79190	5585.38542
'18:19:30.939037	896692.93492	822453.19911	5575.38651	896693.51385	822455.23845	5574.63318	896693.56817	822455.17047	5574.53266	-0.58	-2.04	0.75	-0.63	-1.97	0.85	-0.05	0.07	0.10	896693.54101	822455.20446	5574.58292
'18:19:40.393908	896703.14620	820570.27488	5581.54449	896703.75121	820572.29043	5580.79236	896703.80855	820572.22075	5580.70706	-0.61	-2.02	0.75	-0.66	-1.95	0.84	-0.06	0.07	0.09	896703.77988	820572.25559	5580.74971
'18:19:49.953952	896707.75241	818676.20110	5576.90037	896708.39253	818678.18098	5576.16226	896708.44686	818678.11300	5576.08537	-0.64	-1.98	0.74	-0.69	-1.91	0.82	-0.05	0.07	0.08	896708.41970	818678.14699	5576.12382
'18:19:59.600194	896713.22935	816761.69383	5578.22320	896713.91672	816763.63714	5577.48990	896713.97106	816763.57171	5577.40579	-0.69	-1.94	0.73	-0.74	-1.88	0.82	-0.05	0.07	0.08	896713.94389	816763.60443	5577.44785
'18:20:09.205874	896695.10718	814864.67452	5585.08845	896695.83476	814866.58639	5584.36276	896695.89616	814866.51840	5584.29348	-0.73	-1.91	0.73	-0.79	-1.84	0.79	-0.06	0.07	0.07	896695.86546	814866.55240	5584.32812
'18:20:18.774661	896714.21663	812982.23662	5582.06473	896714.99455	812984.12632	5581.35386	896715.05595	812984.05494	5581.27856	-0.78	-1.89	0.71	-0.84	-1.82	0.79	-0.06	0.07	0.08	896715.02525	812984.09063	5581.31621
'18:20:28.407578	896758.86005	811088.15844	5578.66414	896759.69636	811090.01579	5577.94486	896759.74768	811089.95122	5577.88118	-0.84	-1.86	0.72	-0.89	-1.79	0.78	-0.05	0.06	0.06	896759.72202	811089.98351	5577.91302
'18:20:38.352167	896799.55220	809132.66779	5583.68312	896800.43479	809134.49792	5583.00229	896800.48615	809134.44353	5582.95022	-0.88	-1.83	0.68	-0.93	-1.78	0.73	-0.05	0.05	0.05	896800.46047	809134.47073	5582.97626
'18:20:48.208715	896766.80850	807205.66685	5590.27564	896767.72419	807207.45287	5589.61443	896767.77553	807207.39170	5589.55035	-0.92	-1.79	0.66	-0.97	-1.72	0.73	-0.05	0.06	0.06	896767.74986	807207.42229	5589.58239
'18:20:58.064997	896732.44942	805280.41407	5583.63306	896733.40135	805282.19240	5583.00669	896733.45570	805282.12191	5582.93100	-0.95	-1.78	0.63	-1.01	-1.71	0.70	-0.05	0.07	0.08	896733.42853	805282.15716	5582.96885
'18:21:07.918745	896700.74198	803339.28357	5570.91981	896701.72611	803341.04999	5570.32467	896701.78047	803340.98289	5570.24538	-0.98	-1.77	0.60	-1.04	-1.70	0.67	-0.05	0.07	0.08	896701.75329	803341.01644	5570.28503
'18:21:17.772836	896697.85598	801394.12799	5565.48832	896698.88851	801395.89178	5564.92042	896698.93884	801395.82724	5564.84232	-1.03	-1.76	0.57	-1.08	-1.70	0.65	-0.05	0.06	0.08	896698.91368	801395.85951	5564.88137
'18:21:27.623048	896665.29122	799445.96639	5569.67107	896666.34491	799447.74457	5569.14362	896666.39626	799447.68257	5569.07313	-1.05	-1.78	0.53	-1.11	-1.72	0.60	-0.05	0.06	0.07	896666.37059	799447.71357	5569.10838
'18:21:37.463290	896669.11559	797502.37500	5568.92535	896670.18736	797504.15235	5568.41713	896670.24175	797504.09119	5568.34904	-1.07	-1.78	0.51	-1.13	-1.72	0.58	-0.05	0.06	0.07	896670.21456	797504.12177	5568.38309
'18:21:47.316749	896622.78815	795565.73927	5586.66840	896623.88514	795567.53524	5586.20984	896623.93144	795567.47242	5586.13735	-1.10	-1.80	0.46	-1.14	-1.73	0.53	-0.05	0.06	0.07	896623.90829	795567.50383	5586.17360
'18:21:57.204134	896612.54296	793632.08478	5592.46674	896613.65505	793633.89941	5592.02740	896613.70136	793633.83489	5591.96292	-1.11	-1.81	0.44	-1.16	-1.75	0.50	-0.05	0.06	0.06	896613.67821	793633.86715	5591.99516
'18:22:07.083656	896587.58218	791683.26734	5584.89301	896588.71146	791685.12265	5584.49773	896588.76988	791685.05132	5584.40962	-1.13	-1.86	0.40	-1.19	-1.78	0.48	-0.06	0.07	0.09	896588.74067	791685.08699	5584.45368
'18:22:16.827915	896566.38441	789747.83908	5577.35814	896567.52480	789749.73424	5576.97647	896567.58323	789749.66546	5576.90958	-1.14	-1.90	0.38	-1.20	-1.83	0.45	-0.06	0.07	0.07	896567.55402	789749.69985	5576.94303
'18:22:26.559911	896572.31557	787810.41153	5577.69135	896573.46710	787812.35671	5577.31688	896573.52554	787812.28878	5577.24239	-1.15	-1.95	0.37	-1.21	-1.88	0.45	-0.06	0.07	0.07	896573.49632	787812.32275	5577.27964
'18:22:36.307905	896557.33939	785877.44780	5579.20040	896558.48785	785879.42355	5578.85678	896558.54935	785879.36748	5578.77508	-1.15	-1.98	0.34	-1.21	-1.92	0.43	-0.06	0.06	0.08	896558.51860	785879.39552	5578.81593
'18:22:46.126652	896527.55672	783935.21300	5578.32613	896528.70824	783937.24643	5577.99452	896528.75965	783937.19207	5577.92724	-1.15	-2.03	0.33	-1.20	-1.98	0.40	-0.05	0.05	0.07	896528.73395	783937.21925	5577.96088
'18:22:56.006590	896490.61852	781978.31387	5574.85185	896491.75488	781980.39484	5574.52465	896491.81335	781980.33539	5574.44895	-1.14	-2.08	0.33	-1.19	-2.02	0.40	-0.06	0.06	0.08	896491.78412	781980.36512	5574.48680
'18:23:05.885173	896461.23100	780018.64778	5568.39990	896462.35319	780020.77037	5568.08592	896462.41471	780020.72023	5568.02144	-1.12	-2.12	0.31	-1.18	-2.07	0.38	-0.06	0.05	0.06	896462.38395	780020.74530	5568.05368

'18:23:15.762823	896397.32273	778056.51458	5571.88860	896398.43478	778058.67623	5571.58583	896398.49227	778058.62950	5571.52495	-1.11	-2.16	0.30	-1.17	-2.11	0.36	-0.06	0.05	0.06	896398.46353	778058.65287	5571.55539
'18:23:25.629450	896332.32501	776107.77035	5574.05487	896333.43297	776109.96597	5573.73207	896333.49451	776109.91923	5573.68161	-1.11	-2.20	0.32	-1.17	-2.15	0.37	-0.06	0.05	0.05	896333.46374	776109.94260	5573.70684
'18:23:35.681481	896337.25992	774121.99749	5582.11960	896338.36375	774124.21860	5581.78839	896338.42228	774124.18034	5581.74954	-1.10	-2.22	0.33	-1.16	-2.18	0.37	-0.06	0.04	0.04	896338.39302	774124.19947	5581.76897
'18:23:45.889066	896341.43531	772107.54476	5585.33876	896342.51682	772109.79224	5585.00836	896342.57129	772109.74468	5584.97672	-1.08	-2.25	0.33	-1.14	-2.20	0.36	-0.05	0.05	0.03	896342.54406	772109.76846	5584.99254
'18:23:56.351132	896349.24153	770038.09081	5582.15444	896350.31588	770040.36379	5581.82283	896350.37035	770040.31623	5581.78559	-1.07	-2.27	0.33	-1.13	-2.23	0.37	-0.05	0.05	0.04	896350.34312	770040.34001	5581.80421
'18:24:06.921949	896357.75815	767943.74083	5575.81744	896358.81824	767946.03170	5575.49584	896358.89085	767945.95785	5575.52708	-1.06	-2.29	0.32	-1.13	-2.22	0.29	-0.07	0.07	-0.03	896358.85455	767945.99478	5575.51146
'18:26:47.242466	900327.78685	768613.98040	5691.66849	900328.68004	768616.18578	5691.18910	900328.75537	768615.96878	5691.45143	-0.89	-2.21	0.48	-0.97	-1.99	0.22	-0.08	0.22	-0.26	900328.71771	768616.07728	5691.32027
'18:26:58.252436	900290.00555	770993.73003	5684.79042	900290.88065	770995.90743	5684.29461	900290.95595	770995.68450	5684.55493	-0.88	-2.18	0.50	-0.95	-1.95	0.24	-0.08	0.22	-0.26	900290.91830	770995.79597	5684.42477
'18:27:08.909127	900315.75912	773344.22801	5675.34239	900316.61210	773346.38761	5674.82135	900316.69144	773346.16551	5675.09208	-0.85	-2.16	0.52	-0.93	-1.94	0.25	-0.08	0.22	-0.27	900316.65177	773346.27656	5674.95672
'18:27:18.750972	900307.03350	775521.32838	5691.70494	900307.85729	775523.47275	5691.17989	900307.93762	775523.24979	5691.44141	-0.82	-2.14	0.53	-0.90	-1.92	0.26	-0.08	0.22	-0.26	900307.89746	775523.36127	5691.31065
'18:27:28.603156	900312.03713	777698.32326	5689.49702	900312.84685	777700.44474	5688.95195	900312.93023	777700.23532	5689.21627	-0.81	-2.12	0.55	-0.89	-1.91	0.28	-0.08	0.21	-0.26	900312.88854	777700.34003	5689.08411
'18:27:38.446238	900308.04099	779888.76609	5682.02902	900308.83565	779890.86638	5681.46473	900308.91496	779890.65273	5681.74587	-0.79	-2.10	0.56	-0.87	-1.89	0.28	-0.08	0.21	-0.28	900308.87531	779890.75956	5681.60530
'18:27:48.207355	900303.52064	782077.05257	5677.82625	900304.29017	782079.15033	5677.26596	900304.37250	782078.93921	5677.53028	-0.77	-2.10	0.56	-0.85	-1.89	0.30	-0.08	0.21	-0.26	900304.33134	782079.04477	5677.39812
'18:27:57.566009	900287.50276	784174.38531	5683.42714	900288.25017	784176.47461	5682.87166	900288.32943	784176.25502	5683.13599	-0.75	-2.09	0.56	-0.83	-1.87	0.29	-0.08	0.22	-0.26	900288.28980	784176.36482	5683.00383
'18:28:06.844615	900326.01529	786253.98069	5683.29218	900326.74867	786256.05981	5682.73109	900326.83502	786255.85036	5682.99621	-0.73	-2.08	0.56	-0.82	-1.87	0.30	-0.09	0.21	-0.27	900326.79185	786255.95509	5682.86365
'18:28:16.121578	900381.52041	788331.89894	5684.26658	900382.23570	788333.96875	5683.70749	900382.31193	788333.76017	5683.99104	-0.72	-2.07	0.56	-0.79	-1.86	0.28	-0.08	0.21	-0.28	900382.27382	788333.86446	5683.84927
'18:28:25.388373	900439.93713	790407.98215	5683.05148	900440.63437	790410.05281	5682.51042	900440.71058	790409.84338	5682.77995	-0.70	-2.07	0.54	-0.77	-1.86	0.27	-0.08	0.21	-0.27	900440.67248	790409.94810	5682.64519
'18:28:34.516435	900481.91468	792452.33583	5685.46966	900482.59790	792454.40902	5684.93620	900482.67713	792454.19704	5685.19973	-0.68	-2.07	0.53	-0.76	-1.86	0.27	-0.08	0.21	-0.26	900482.63752	792454.30303	5685.06797
'18:28:43.543761	900486.55364	794470.79376	5683.42634	900487.22993	794472.87117	5682.90370	900487.30206	794472.65497	5683.16843	-0.68	-2.08	0.52	-0.75	-1.86	0.26	-0.07	0.22	-0.26	900487.26600	794472.76307	5683.03607
'18:28:52.369409	900494.31081	796443.41968	5686.57422	900494.99029	796445.50635	5686.04317	900495.05839	796445.29778	5686.30349	-0.68	-2.09	0.53	-0.75	-1.88	0.27	-0.07	0.21	-0.26	900495.02434	796445.40207	5686.17333
'18:29:00.569677	900498.64497	798278.26419	5677.25875	900499.31350	798280.36102	5676.74492	900499.38559	798280.14227	5677.00283	-0.67	-2.10	0.51	-0.74	-1.88	0.26	-0.07	0.22	-0.26	900499.34955	798280.25165	5676.87388
'18:29:08.035758	900509.77669	799956.72032	5675.78053	900510.43524	799958.82477	5675.27511	900510.51035	799958.60685	5675.51660	-0.66	-2.10	0.51	-0.73	-1.89	0.26	-0.08	0.22	-0.24	900510.47280	799958.71581	5675.39586
'18:33:38.544292	900374.00977	828158.48928	5879.53142	900374.67680	828160.47541	5879.04883	900373.14104	828159.61088	5879.81377	-0.67	-1.99	0.48	0.87	-1.12	-0.28	1.54	0.86	-0.76	900373.94254	828159.52519	5879.46467
'18:33:48.647258	900388.68894	826109.06271	5885.48956	900389.35983	826111.03701	5885.01617	900387.90844	826110.27707	5885.80074	-0.67	-1.97	0.47	0.78	-1.21	-0.31	1.45	0.76	-0.78	900388.65240	826110.12560	5885.43549
'18:33:58.464354	900371.99587	824123.99351	5909.08021	900372.66159	824125.96787	5908.60322	900371.35309	824125.29198	5909.37977	-0.67	-1.97	0.48	0.64	-1.30	-0.30	1.31	0.68	-0.78	900372.00352	824125.08445	5909.02107
'18:34:08.281721	900376.37250	822146.27998	5911.10470	900377.03199	822148.24339	5910.63852	900375.88343	822147.62017	5911.34820	-0.66	-1.96	0.47	0.49	-1.34	-0.24	1.15	0.62	-0.71	900376.42931	822147.38118	5911.03047
'18:34:18.099183	900371.49767	820158.31274	5903.19095	900372.15704	820160.27958	5902.72478	900371.14332	820159.75404	5903.37999	-0.66	-1.97	0.47	0.35	-1.44	-0.19	1.01	0.53	-0.66	900371.59934	820159.44879	5903.09857
'18:34:27.920371	900388.98937	818168.13745	5913.41995	900389.64050	818170.09334	5912.94617	900388.81307	818169.64581	5913.53649	-0.65	-1.96	0.47	0.18	-1.51	-0.12	0.83	0.45	-0.59	900389.14765	818169.29220	5913.30087
'18:34:37.762348	900359.36619	816170.83779	5906.58353	900360.00599	816172.77259	5906.11856	900359.35677	816172.40482	5906.55510	-0.64	-1.93	0.46	0.01	-1.57	0.03	0.65	0.37	-0.44	900359.57632	816172.00507	5906.41906
'18:34:47.601450	900361.83812	814168.79592	5901.11880	900362.47375	814170.72655	5900.65663	900362.01467	814170.38770	5900.97903	-0.64	-1.93	0.46	-0.18	-1.59	0.14	0.46	0.34	-0.32	900362.10885	814169.97006	5900.91815
'18:34:57.470909	900397.31470	812158.60119	5892.69923	900397.94003	812160.51241	5892.24588	900397.65895	812160.20085	5892.39846	-0.63	-1.91	0.45	-0.34	-1.60	0.30	0.28	0.31	-0.15	900397.63789	812159.77148	5892.44786
'18:35:07.391598	900407.76644	810127.58691	5881.27957	900408.38752	810129.47362	5880.83182	900408.26624	810129.18605	5880.83943	-0.62	-1.89	0.45	-0.50	-1.60	0.44	0.12	0.29	-0.01	900408.14007	810128.74886	5880.98361
'18:35:17.310594	900401.79491	808100.73156	5875.90415	900402.39861	808102.59549	5875.46041	900402.43403	808102.31331	5875.33225	-0.60	-1.86	0.44	-0.64	-1.58	0.57	-0.04	0.28	0.13	900402.20918	808101.88012	5875.56560
'18:35:27.208852	900409.70395	806089.89040	5875.35548	900410.29231	806091.73917	5874.92975	900410.48351	806091.48866	5874.64781	-0.59	-1.85	0.43	-0.78	-1.60	0.71	-0.19	0.25	0.28	900410.15992	806091.03941	5874.97768
'18:35:36.970526	900418.30998	804115.43781	5879.11771	900418.88402	804117.26973	5878.69078	900419.21775	804117.01876	5878.27187	-0.57	-1.83	0.43	-0.91	-1.58	0.85	-0.33	0.25	0.42	900418.80392	804116.57543	5878.69345
'18:35:46.730690	900399.18879	802158.52608	5890.63149	900399.74040	802160.33184	5890.22138	900400.20149	802160.08133	5889.67070	-0.55	-1.81	0.41	-1.01	-1.56	0.96	-0.46	0.25	0.55	900399.71023	802159.64642	5890.17452
'18:35:56.489668	900400.55240	800208.32501	5897.73704	900401.08970	800210.11561	5897.32613	900401.67812	800209.85456	5896.65450	-0.54	-1.79	0.41	-1.13	-1.53	1.08	-0.59	0.26	0.67	900401.10674	800209.43173	5897.23922
'18:36:06.089773	900397.45742	798297.50057	5892.92752	900397.96826	798299.26671	5892.51220	900398.66276	798298.98758	5891.74125	-0.51	-1.77	0.42	-1.21	-1.49	1.19	-0.69	0.28	0.77	900398.02948	798298.58495	5892.39366
'18:36:14.915812	900401.49180	796533.28300	5886.95857	900401.98125	796535.02636	5886.55607	900402.76970	796534.72750	5885.68179	-0.49	-1.74	0.40	-1.28	-1.44	1.28	-0.79	0.30	0.87	900402.08092	796534.34562	5886.39881
'18:36:23.825280	900408.77638	794749.99106	5890.98993	900409.24347	794751.72690	5890.58063	900410.10560	794751.38467	5889.61424	-0.47	-1.74	0.41	-1.33	-1.39	1.38	-0.86	0.34	0.97	900409.37515	794751.03421	5890.39493
'18:36:33.124115	900407.16959	792890.74989	5885.00896	900407.60821	792892.46212	5884.60206	900408.54608	792892.09261	5883.54076	-0.44	-1.71	0.41	-1.38	-1.34	1.47	-0.94	0.37	1.06	900407.77463	792891.76821	5884.38393
'18:36:42.544743	900407.78460	790991.50738	5882.40896	900408.18970	790993.19771	5882.01528	900409.19624	790992.79926	5880.87187	-0.41	-1.69	0.39	-1.41	-1.29	1.54	-1.01	0.40	1.14	900408.39018	790992.50145	5881.76537
'18:36:52.003561	900373.19458	789103.18179	5898.17317	900373.57430	789104.86798	5897.77789	900374.65052	789104.43975	5896.54397	-0.38	-1.69	0.40	-1.46	-1.26	1.63	-1.08	0.43	1.23	900373.80647	789104.16317	5897.49834
'18:42:02.012844	904574.09206	796563.18069	5779.85668	904574.03521	796564.75611	5779.43176	904575.69599	796564.14975	5778.19344	0.06	-1.58	0.42	-1.60	-0.97	1.66	-1.66	0.61	1.24	904574.60775	796564.02885	5779.16063
'18:42:10.472739	904544.57347	794840.95709	5768.62485	904544.52055	794842.52233	5768.21114	904546.18839	794841.90079	5767.00406	0.05	-1.57	0.41	-1.61	-0.94	1.62	-1.67	0.62	1.21	904545.09414	794841.79340	5767.94668
'18:42:19.072695	904533.32972	793091.37345	5777.70163	904533.25145	793092.94300	5777.31876	904534.91221	793092.30886	5776.14051	0.08	-1.57	0.38	-1.58	-0.94	1.56	-1.66	0.63	1.18	904533.83113	793092.20844	5777.05363
'18:42:27.898462	904508.41469	791307.79204	5786.57496	904508.35453	791309.36237	5786.15284	904510.03354	791308.73590	5784.96858	0.06	-1.57	0.42	-1.62	-0.94	1.61	-1.68	0.63	1.18	904508.93425	791308.63010	5785.89879
'18:42:37.061299	904504.79194	789445.95397	5776.24303	904504.72057	789447.52264	5775.82132	904506.40670	789446.89794	5774.63425	0.07	-1.57	0.42	-1.61	-0.94	1.61	-1.69	0.62	1.19	904505.30640	789446.79152	5775.56620
'18:42:46.207092	904512.85610	787570.49164	5775.25462	904512.76543	787572.05951	5774.83210	904514.47381	787571.42723	5773.67908	0.09	-1.57	0.42	-1.62	-0.94	1.58	-1.71	0.63	1.15	904513.36511	787571.32613	5774.58860
'18:42:55.220006	904523.10535	785733.11945	5784.13515	904523.00750	785734.68225	5783.71303	904524.72300	785734.05513	5782.59886	0.10	-1.56	0.42	-1.62	-0.94	1.54	-1.72	0.63	1.11	904523.61195	785733.95228	5783.48235
'18:43:04.259916	904517.17282	783897.35934	5787.90940	904517.05971	783898.91710	5787.48968	904518.79444	783898.28664	5786.38913	0.11	-1.56	0.42	-1.62	-0.93	1.52	-1.73	0.63	1.10	904517.67566	783898.18769	5787.26274
'18:43:13.434939	904484.71002	782009.16042	5772.03465	904484.59782	782010.71394	5771.59771	904486.34270	782010.08779	5770.53641	0.11	-1.55	0.44	-1.63	-0.93	1.50	-1.74	0.63	1.06	904485.21685	782009.98738	5771.38959
'18:43:23.021678	904489.18029	780016.34899	5777.03201	904489.05689	780017.91269	5776.62230	904490.81697	780017.28492	5775.55899	0.12	-1.56	0.41	-1.64	-0.94	1.47	-1.76	0.63	1.06	904489.68472	780017.18220	5776.40443
'18:43:32.608278	904448.05151	778041.59776	5780.10539	904447.91384	778043.15302	5779.67566	904449.68005	778042.53381	5778.64679	0.14	-1.56	0.43	-1.63	-0.94	1.46	-1.77	0.62	1.03	904448.54847	778042.42820	5779.47595
'18:43:42.195086	904430.85629	776065.19303	5786.81685	904430.69630	776066.74918	5786.39353	904432.48073	776066.12919	5785.38269	0.16	-1.56	0.42	-1.62	-0.94	1.43	-1.78	0.62	1.01	904431.34444	776066.02380	5786.19769
'18:43:51.784442	904409.13666	774090.27162	5788.06279	904408.96240	774091.82440	5787.64267	904410.76611	774091.21634	5786.65305	0.17	-1.55	0.42	-1.63	-0.94	1.41	-1.80	0.61	0.99	904409.62172	774091.10412	5787.45284
'18:44:01.425626	904386.58486	772096.15978	5781.86275	904386.39840	772097.71681	5781.42782	904388.21326	772097.11307	5780.46103	0.19	-1.56	0.43	-1.63	-0.95	1.40	-1.81	0.60	0.97	904387.06551	772096.99655	5781.25053
'18:44:11.228436	904366.31185	770041.47066	5775.72360	904366.10811	770043.03449	5775.30468	904367.93717	770042.43253	5774.35591	0.20	-1.56	0.42	-1.63	-0.96	1.37	-1.83	0.60	0.95	904366.78571	770042.31256	5775.12806
'18:44:21.632260	904380.37759	767840.25984	5775.09202	904380.15554	767841.81608	5774.65668	904381.99872	767841.17949	5773.79322	0.22	-1.56	0.44	-1.62	-0.92	1.30	-1.84	0.64	0.86	904380.84395	767841.08514	5774.51397
'18:46:39.840932	908385.49685	768494.53232	5767.61401	908385.06344	768496.02192	5767.18989	908386.83792	768495.40161	5766.43616	0.43	-1.49	0.42	-1.34	-0.87	1.18	-1.77	0.62	0.75	908385.79940	768495.31862	5767.08002
'18:46:50.159171	908419.59778	770875.74236	5788.34514	908419.14629	770877.22696	5787.89618	908420.92075	770876.62006	5787.15928	0.45	-1.48	0.45	-1.32	-0.88	1.19	-1.77	0.61	0.74	908419.88827	770876.52979	5787.80020

'18:08:20.473723	888361.65271	776643.07939	5380.17333	888361.71725	776643.01823	5379.99311	888361.71726	776643.01993	5379.96467	-0.06	0.06	0.18	-0.06	0.06	0.21	0.00	0.00	0.03	888361.69574	776643.03918	5380.04370
'18:08:30.661394	888351.17891	774688.97396	5385.52953	888351.24446	774688.91280	5385.34690	888351.31396	774688.81265	5385.20913	-0.07	0.06	0.18	-0.14	0.16	0.32	-0.07	0.10	0.14	888351.24578	774688.89980	5385.36185
'18:08:40.861117	888348.92543	772726.56269	5385.74179	888348.99099	772726.50322	5385.55756	888349.04557	772726.50310	5385.38535	-0.07	0.06	0.18	-0.12	0.06	0.36	-0.05	0.00	0.17	888348.98733	772726.52300	5385.56157
'18:08:51.182575	888352.68630	770734.49073	5377.41073	888352.74489	770734.47704	5377.32943	888352.80963	770734.49893	5377.11156	-0.06	0.01	0.08	-0.12	-0.01	0.30	-0.06	-0.02	0.22	888352.74694	770734.48890	5377.28391
'18:09:01.624473	888354.84773	768698.89645	5366.98469	888354.83372	768698.96003	5367.07400	888354.88134	768699.01500	5366.89258	0.01	-0.06	-0.09	-0.03	-0.12	0.09	-0.05	-0.05	0.18	888354.85426	768698.95716	5366.98376
'18:11:39.694273	892446.83331	768841.14177	5504.99663	892442.79594	768839.92545	5497.61915	892445.54647	768841.50887	5503.72106	4.04	1.22	7.38	1.29	-0.37	1.28	-2.75	-1.58	-6.10	892445.05857	768841.32532	5504.35885
'18:11:49.996975	892435.17427	771014.49900	5495.29869	892431.24596	771013.27509	5488.03855	892433.99258	771014.87443	5494.09000	3.93	1.22	7.26	1.18	-0.38	1.21	-2.75	-1.60	-6.05	892433.47094	771014.68672	5494.69435
'18:12:00.289760	892413.51998	773232.14138	5488.29807	892409.74416	773230.90299	5481.17049	892412.42631	773232.54210	5487.17949	3.78	1.24	7.13	1.09	-0.40	1.12	-2.68	-1.64	-6.01	892411.89682	773232.34174	5487.73878
'18:12:10.577537	892418.49633	775482.53799	5475.93765	892414.90653	775481.35703	5468.90499	892417.51500	775482.98935	5474.88556	3.59	1.18	7.03	0.98	-0.45	1.05	-2.61	-1.63	-5.98	892416.97262	775482.76367	5475.41161
'18:12:20.803048	892431.80194	777737.45623	5465.30616	892428.42653	777736.35973	5458.38924	892430.92998	777737.98365	5464.31053	3.38	1.10	6.92	0.87	-0.53	1.00	-2.50	-1.62	-5.92	892430.38615	777737.71994	5464.80835
'18:12:30.974339	892434.30752	779992.24056	5460.34926	892431.17184	779991.25044	5453.53927	892433.55912	779992.85245	5459.37205	3.14	0.99	6.81	0.75	-0.61	0.98	-2.39	-1.60	-5.83	892433.01283	779992.11448	5459.86066
'18:12:41.051916	892449.14734	782222.83136	5457.14131	892446.29999	782221.97796	5450.64851	892448.49838	782223.57860	5456.18973	2.85	0.85	6.49	0.65	-0.75	0.95	-2.20	-1.60	-5.54	892447.98190	782222.79597	5456.66552
'18:12:50.520726	892455.23768	784315.55892	5462.40619	892452.77568	784314.82753	5456.06678	892454.66491	784316.43309	5461.43780	2.46	0.73	6.34	0.57	-0.87	0.97	-1.89	-1.61	-5.37	892454.22609	784315.60651	5461.92200
'18:12:59.987864	892457.98460	786372.42475	5480.65466	892455.77752	786371.79196	5474.58799	892457.48083	786373.37502	5479.66224	2.21	0.63	6.07	0.50	-0.95	0.99	-1.70	-1.58	-5.07	892457.08098	786372.53058	5480.15845
'18:13:09.445180	892461.31968	788415.11602	5486.95602	892459.31295	788414.58193	5481.22376	892460.84953	788416.14248	5485.97922	2.01	0.53	5.73	0.47	-1.03	0.98	-1.54	-1.56	-4.76	892460.49405	788415.28014	5486.46762
'18:13:18.909715	892478.15099	790448.95875	5493.34589	892476.38505	790448.52323	5488.05297	892477.72865	790450.06983	5492.37069	1.77	0.44	5.29	0.42	-1.11	0.98	-1.34	-1.55	-4.32	892477.42156	790449.18394	5492.85829
'18:13:28.371246	892510.05675	792485.09530	5491.44274	892508.43660	792484.75436	5486.67447	892509.64881	792486.26566	5490.42950	1.62	0.34	4.77	0.41	-1.17	1.01	-1.21	-1.51	-3.76	892509.38072	792485.37177	5490.93612
'18:13:37.841793	892512.83949	794531.44061	5485.62157	892511.34688	794531.17056	5481.40638	892512.38837	794532.67891	5484.61634	1.49	0.27	4.22	0.45	-1.24	1.01	-1.04	-1.51	-3.21	892512.19158	794531.76336	5485.11896
'18:13:47.320965	892515.14572	796574.74715	5494.55257	892515.95778	796576.22563	5493.43600	892514.64030	796576.05342	5493.56055	-0.81	-1.48	1.12	0.51	-1.31	0.99	1.32	0.17	-0.12	892515.24793	796575.67540	5493.84971
'18:13:56.885827	892538.89874	798642.81223	5486.53510	892539.78409	798644.42768	5485.41732	892538.29863	798644.19508	5485.54708	-0.89	-1.62	1.12	0.60	-1.38	0.99	1.49	0.23	-0.13	892538.99382	798643.81166	5485.83317
'18:14:06.448052	892550.34322	800725.95345	5478.90450	892551.27958	800727.68476	5477.79113	892549.60892	800727.37913	5477.92690	-0.94	-1.73	1.11	0.73	-1.43	0.98	1.67	0.31	-0.14	892550.41057	800727.00578	5478.20751
'18:14:16.007763	892575.68189	802817.03936	5479.91455	892576.64499	802818.87388	5478.82360	892574.83864	802818.49933	5479.00903	-0.96	-1.83	1.09	0.84	-1.46	0.91	1.81	0.37	-0.19	892575.72184	802818.13752	5479.24906
'18:14:25.567211	892592.48862	804901.70466	5484.75331	892593.47447	804903.66020	5483.64554	892591.53331	804903.17353	5483.88263	-0.99	-1.96	1.11	0.96	-1.47	0.87	1.94	0.49	-0.24	892592.49880	804902.84613	5484.09383
'18:14:35.090820	892568.83432	806975.64474	5481.96467	892569.83781	806977.69674	5480.84690	892569.89226	806977.65759	5480.83488	-1.00	-2.05	1.12	-1.06	-2.01	1.13	-0.05	0.04	0.01	892569.86504	806977.67717	5480.84089
'18:14:44.600687	892580.23397	809049.63028	5478.93334	892581.23893	809051.77710	5477.81596	892581.29334	809051.72777	5477.78593	-1.00	-2.15	1.12	-1.06	-2.10	1.15	-0.05	0.05	0.03	892581.26614	809051.75244	5477.80095
'18:14:54.099643	892565.68910	811111.29530	5485.42413	892566.67939	811113.54039	5484.30756	892566.73785	811113.49443	5484.26430	-0.99	-2.25	1.12	-1.05	-2.20	1.16	-0.06	0.05	0.04	892566.70862	811113.51741	5484.28593
'18:15:03.605494	892572.52419	813177.10714	5480.42157	892573.50785	813179.43861	5479.29939	892573.56936	813179.39941	5479.27336	-0.98	-2.33	1.12	-1.05	-2.29	1.15	-0.06	0.04	0.03	892573.53861	813179.41901	5479.28638
'18:15:13.016182	892570.80500	815234.91946	5468.10360	892571.77095	815237.34074	5466.98583	892571.83645	815237.28797	5466.93617	-0.97	-2.42	1.12	-1.03	-2.37	1.17	-0.07	0.05	0.05	892571.80370	815237.31436	5466.96100
'18:15:22.296837	892577.60146	817269.56458	5466.82563	892578.53849	817272.05114	5465.69544	892578.60299	817272.00091	5465.66260	-0.94	-2.49	1.13	-1.00	-2.44	1.16	-0.06	0.05	0.03	892578.57074	817272.02603	5465.67902
'18:15:31.530360	892593.92465	819280.17279	5465.66240	892610.98996	819282.68422	5468.02471	892611.05547	819282.63314	5467.97424	-17.07	-2.51	-2.36	-17.13	-2.46	-2.31	-0.07	0.05	0.05	892611.02272	819282.65868	5467.99948
'18:15:40.648611	892593.03477	821234.04817	5493.12521	892593.88167	821236.66967	5491.98261	892593.95119	821236.61179	5491.93495	-0.85	-2.62	1.14	-0.92	-2.56	1.19	-0.07	0.06	0.05	892593.91643	821236.64073	5491.95878
'18:15:49.766940	892608.28124	823179.35662	5480.01187	892609.06691	823182.04609	5478.88368	892609.14252	823181.99665	5478.82561	-0.79	-2.69	1.13	-0.86	-2.64	1.19	-0.08	0.05	0.06	892609.10472	823182.02137	5478.85465
'18:15:58.887882	892654.15962	825134.88058	5479.77838	892654.89816	825137.62271	5478.64178	892654.96366	825137.57162	5478.59733	-0.74	-2.74	1.14	-0.80	-2.69	1.18	-0.07	0.05	0.04	892654.93091	825137.59717	5478.61956
'18:16:08.005524	892720.54483	827089.11564	5474.17308	892721.22508	827091.89693	5473.03528	892721.28749	827091.83229	5472.97881	-0.68	-2.78	1.14	-0.74	-2.72	1.19	-0.06	0.06	0.06	892721.25629	827091.86461	5473.00705
'18:16:17.134632	892747.21365	829057.40942	5459.20184	892747.84061	829060.21884	5458.05563	892747.90199	829060.15166	5457.98795	-0.63	-2.81	1.15	-0.69	-2.74	1.21	-0.06	0.07	0.07	892747.87130	829060.18525	5458.02179
'18:19:02.157853	896746.51903	828107.07149	5594.53689	896747.03313	828109.23043	5593.76153	896747.09143	828109.15311	5593.66221	-0.51	-2.16	0.78	-0.57	-2.08	0.87	-0.06	0.08	0.10	896747.06228	828109.19177	5593.71187
'18:19:11.687367	896734.74568	826256.36212	5602.65489	896735.26758	826258.48464	5601.89715	896735.32894	826258.40985	5601.79463	-0.52	-2.12	0.76	-0.58	-2.05	0.86	-0.06	0.07	0.10	896735.29826	826258.44725	5601.84589
'18:19:21.275524	896686.74244	824378.74664	5586.18621	896687.28934	824380.83182	5585.43768	896687.34361	824380.75198	5585.33316	-0.55	-2.09	0.75	-0.60	-2.01	0.85	-0.05	0.08	0.10	896687.31648	824380.79190	5585.38542
'18:19:30.939037	896692.93492	822453.19911	5575.38651	896693.51385	822455.23845	5574.63318	896693.56817	822455.17047	5574.53266	-0.58	-2.04	0.75	-0.63	-1.97	0.85	-0.05	0.07	0.10	896693.54101	822455.20446	5574.58292
'18:19:40.393908	896703.14620	820570.27488	5581.54449	896703.75121	820572.29043	5580.79236	896703.80855	820572.22075	5580.70706	-0.61	-2.02	0.75	-0.66	-1.95	0.84	-0.06	0.07	0.09	896703.77988	820572.25559	5580.74971
'18:19:49.953952	896707.75241	818676.20110	5576.90037	896708.39253	818678.18098	5576.16226	896708.44686	818678.11300	5576.08537	-0.64	-1.98	0.74	-0.69	-1.91	0.82	-0.05	0.07	0.08	896708.41970	818678.14699	5576.12382
'18:19:59.600194	896713.22935	816761.69383	5578.22320	896713.91672	816763.63714	5577.48990	896713.97106	816763.57171	5577.40579	-0.69	-1.94	0.73	-0.74	-1.88	0.82	-0.05	0.07	0.08	896713.94389	816763.60443	5577.44785
'18:20:09.205874	896695.10718	814864.67452	5585.08845	896695.83476	814866.58639	5584.36276	896695.89616	814866.51840	5584.29348	-0.73	-1.91	0.73	-0.79	-1.84	0.79	-0.06	0.07	0.07	896695.86546	814866.55240	5584.32812
'18:20:18.774661	896714.21663	812982.23662	5582.06473	896714.99455	812984.12632	5581.35386	896715.05595	812984.05494	5581.27856	-0.78	-1.89	0.71	-0.84	-1.82	0.79	-0.06	0.07	0.08	896715.02525	812984.09063	5581.31621
'18:20:28.407578	896758.86005	811088.15844	5578.66414	896759.69636	811090.01579	5577.94486	896759.74768	811089.95122	5577.88118	-0.84	-1.86	0.72	-0.89	-1.79	0.78	-0.05	0.06	0.06	896759.72202	811089.98351	5577.91302
'18:20:38.352167	896799.55220	809132.66779	5583.68312	896800.43479	809134.49792	5583.00229	896800.48615	809134.44353	5582.95022	-0.88	-1.83	0.68	-0.93	-1.78	0.73	-0.05	0.05	0.05	896800.46047	809134.47073	5582.97626
'18:20:48.208715	896766.80850	807205.66685	5590.27564	896767.72419	807207.45287	5589.61443	896767.77553	807207.39170	5589.55035	-0.92	-1.79	0.66	-0.97	-1.72	0.73	-0.05	0.06	0.06	896767.74986	807207.42229	5589.58239
'18:20:58.064997	896732.44942	805280.41407	5583.63306	896733.40135	805282.19240	5583.00669	896733.45570	805282.12191	5582.93100	-0.95	-1.78	0.63	-1.01	-1.71	0.70	-0.05	0.07	0.08	896733.42853	805282.15716	5582.96885
'18:21:07.918745	896700.74198	803339.28357	5570.91981	896701.72611	803341.04999	5570.32467	896701.78047	803340.98289	5570.24538	-0.98	-1.77	0.60	-1.04	-1.70	0.67	-0.05	0.07	0.08	896701.75329	803341.01644	5570.28503
'18:21:17.772836	896697.85598	801394.12799	5565.48832	896698.88851	801395.89178	5564.92042	896698.93884	801395.82724	5564.84232	-1.03	-1.76	0.57	-1.08	-1.70	0.65	-0.05	0.06	0.08	896698.91368	801395.85951	5564.88137
'18:21:27.623048	896665.29122	799445.96639	5569.67107	896666.34491	799447.74457	5569.14362	896666.39626	799447.68257	5569.07313	-1.05	-1.78	0.53	-1.11	-1.72	0.60	-0.05	0.06	0.07	896666.37059	799447.71357	5569.10838
'18:21:37.463290	896669.11559	797502.37500	5568.92535	896670.18736	797504.15235	5568.41713	896670.24175	797504.09119	5568.34904	-1.07	-1.78	0.51	-1.13	-1.72	0.58	-0.05	0.06	0.07	896670.21456	797504.12177	5568.38309
'18:21:47.316749	896622.78815	795565.73927	5586.66840	896623.88514	795567.53524	5586.20984	896623.93144	795567.47242	5586.13735	-1.10	-1.80	0.46	-1.14	-1.73	0.53	-0.05	0.06	0.07	896623.90829	795567.50383	5586.17360
'18:21:57.204134	896612.54296	793632.08478	5592.46674	896613.65505	793633.89941	5592.02740	896613.70136	793633.83489	5591.96292	-1.11	-1.81	0.44	-1.16	-1.75	0.50	-0.05	0.06	0.06	896613.67821	793633.86715	5591.99516
'18:22:07.083656	896587.58218	791683.26734	5584.89301	896588.71146	791685.12265	5584.49773	896588.76988	791685.05132	5584.40962	-1.13	-1.86	0.40	-1.19	-1.78	0.48	-0.06	0.07	0.09	896588.74067	791685.08699	5584.45368
'18:22:16.827915	896566.38441	789747.83908	5577.35814	896567.52480	789749.73424	5576.97647	896567.58323	789749.66546	5576.90958	-1.14	-1.90	0.38	-1.20	-1.83	0.45	-0.06	0.07	0.07	896567.55402	789749.69985	5576.94303
'18:22:26.559911	896572.31557	787810.41153	5577.69135	896573.46710	787812.35671	5577.31688	896573.52554	787812.28878	5577.24239	-1.15	-1.95	0.37	-1.21	-1.88	0.45	-0.06	0.07	0.07	896573.49632	787812.32275	5577.27964
'18:22:36.307905	896557.33939	785877.44780	5579.20040	896558.48785	785879.42355	5578.85678	896558.54935	785879.36748	5578.77508	-1.15	-1.98	0.34	-1.21	-1.92	0.43	-0.06	0.06	0.08	896558.51860	785879.39552	5578.81593
'18:22:46.126652	896527.55672	783935.21300	5578.32613	896528.70824	783937.24643	5577.99452	896528.75965	783937.19207	5577.92724	-1.15	-2.03	0.33	-1.20	-1.98	0.40	-0.05	0.05	0.07	896528.73395	783937.21925	5577.96088
'18:22:56.006590	896490.61852	781978.31387	5574.85185	896491.75488	781980.39484	5574.52465	896491.81335	781980.33539	5574.44895	-1.14	-2.08	0.33	-1.19	-2.02	0.40	-0.06	0.06	0.08	896491.78412	781980.36512	5574.48680
'18:23:05.885173	896461.23100	780018.64778	5568.39990	896462.35319	780020.77037	5568.08592	896462.41471	780020.72023	5568.02144	-1.12	-2.12	0.31	-1.18	-2.07	0.38	-0.06	0.05	0.06	896462.38395	780020.74530	5568.05368

Survey Notes

1,	914842.65100,	769102.63100,	1317.66101,Set Rebar
2,	914140.19000,	768711.00800,	1329.85596,Set Rebar
3,	914253.66400,	769909.41700,	1325.11804,Set Rebar
4,	914804.65700,	771545.91600,	1320.96497,Set Rebar
5,	913632.08700,	770907.53900,	1359.97400,Set PK Nail
6,	911895.71800,	772253.30800,	1447.19495,Set Rebar
7,	910226.38100,	772265.97100,	1572.69397,Set Rebar
8,	910210.23000,	772695.01100,	1527.96301,Set Rebar
9,	910251.80700,	773124.17700,	1522.91296,Set Rebar
10,	907348.22000,	791155.57200,	2118.34009,Set PK Nail
11,	900286.08300,	771131.13900,	1573.28101,Set Rebar
12,	899941.75400,	790309.06400,	1963.48804,Set PK Nail
13,	899308.11800,	802364.25800,	2000.72205,Set Rebar
14,	899271.16100,	823475.29200,	2149.36694,Set Rebar
15,	894543.46500,	805081.35500,	1824.99304,Set Rebar
16,	894311.37200,	824420.52900,	2009.07202,Set Rebar
17,	891704.95700,	774926.57500,	1581.07605,Set Rebar
18,	889229.26400,	823571.32000,	1914.28503,Set PK Nail
19,	887792.22100,	790907.76700,	1690.02295,BC Flush
20,	887003.72900,	809341.83900,	1758.01501,Set Rebar
21,	884757.50200,	784320.80200,	1582.00806,Set Rebar
22,	887681.45600,	800068.68900,	1692.24402,Set Rebar
23,	884502.11600,	816285.64200,	1800.52502,Set Rebar
50,	878819.72900,	780052.36300,	1486.80396,NGS Pt "1262"
51,	897243.30200,	780040.70800,	1724.26794,Fd Ctn Spindle
52,	895346.37100,	799129.87400,	1817.84802,Set Rebar
53,	897306.33300,	817401.39800,	2039.93396,Set Rebar
54,	890842.00200,	773936.79100,	1554.40002,NGS Pt "A365"
55,	889821.49900,	781435.05400,	1632.58496,NGS Pt "KELL"
56,	885415.26900,	819230.47700,	1829.02197,NGS Pt "S269"
57,	868149.65800,	802086.28400,	1565.98401,NGS Pt "SG17"
58,	883058.13300,	816278.50500,	1792.17200,NGS Pt "Z021"
100,	886765.23748,	813038.30368,	1813.99432,CL
101,	886860.73693,	813038.57775,	1813.88939,CL
102,	886957.92070,	813038.67423,	1813.12402,CL
103,	887054.61741,	813038.66062,	1810.35408,CL
104,	887151.83206,	813038.74360,	1806.70326,CL
105,	887247.77341,	813038.39435,	1803.18441,CL
106,	887341.37367,	813038.40751,	1801.25967,CL
107,	887439.27876,	813038.42128,	1800.90554,CL
108,	887537.37152,	813038.43507,	1800.80961,CL
109,	887633.99544,	813038.37849,	1801.56106,CL
110,	887730.98764,	813038.11738,	1802.54526,CL
111,	887830.57525,	813038.09340,	1803.48390,CL
112,	887931.01729,	813037.81134,	1804.62920,CL
113,	886670.01024,	813136.93180,	1813.44589,CL
114,	886670.69498,	813231.60247,	1812.26179,CL
115,	886671.71674,	813328.91213,	1809.71701,CL
116,	886672.65532,	813427.77697,	1806.07211,CL
117,	886673.40842,	813529.11731,	1802.69481,CL

118,	886674.33656,	813632.94400,	1800.99723,CL
119,	886675.31339,	813735.62434,	1800.61927,CL
120,	886676.18993,	813834.03780,	1800.60776,CL
121,	886677.12118,	813935.07879,	1800.56197,CL
122,	886677.65992,	814036.82521,	1800.11895,CL
123,	886678.51771,	814137.23826,	1799.55475,CL
124,	886678.86849,	814238.23210,	1800.58714,CL
125,	886679.62864,	814341.23337,	1801.71599,CL
126,	886572.68787,	813038.63328,	1813.40688,CL
127,	886483.75540,	813038.53948,	1811.47641,CL
128,	886380.75281,	813038.62617,	1807.55783,CL
129,	886281.31282,	813038.45966,	1803.70393,CL
130,	886180.52771,	813038.64700,	1799.67175,CL
131,	886075.92170,	813038.61498,	1795.37598,CL
132,	885973.88851,	813038.82533,	1791.14351,CL
133,	885870.48691,	813038.58791,	1787.04636,CL
134,	885764.18490,	813038.65082,	1782.76584,CL
135,	885654.48629,	813038.73605,	1779.33010,CL
136,	885559.00516,	813038.77047,	1778.20297,CL
137,	885463.32412,	813038.79237,	1777.38080,CL
138,	885360.50199,	813038.73808,	1776.65183,CL
139,	886669.39405,	812935.93501,	1813.84379,CL
140,	886669.63528,	812837.50230,	1812.77045,CL
141,	886669.88772,	812737.17339,	1809.86141,CL
142,	886670.14677,	812634.22233,	1805.81979,CL
143,	886668.68122,	812532.47751,	1801.62765,CL
144,	886666.28671,	812430.57529,	1797.31366,CL
145,	886664.21675,	812331.11517,	1793.31131,CL
146,	886661.89463,	812229.88230,	1789.46709,CL
147,	886659.86803,	812127.31953,	1785.36034,CL
148,	886659.13262,	812026.51641,	1782.03346,CL
149,	886659.18890,	811925.75482,	1780.26325,CL
150,	886658.95114,	811837.23149,	1778.90875,CL
151,	886659.68304,	811739.28569,	1777.70948,CL
152,	888109.74736,	807752.20067,	1754.39439,CL
153,	888017.62922,	807752.09725,	1754.05908,CL
154,	887923.63782,	807752.44654,	1752.77450,CL
155,	887826.59640,	807752.98325,	1750.60265,CL
156,	887729.12250,	807753.41515,	1747.56847,CL
157,	887626.47768,	807754.03212,	1745.26833,CL
158,	887525.04644,	807754.58064,	1744.76717,CL
159,	887428.48938,	807755.35878,	1745.07893,CL
160,	888207.88156,	807752.14960,	1754.44907,CL
161,	888307.43079,	807751.95094,	1754.59689,CL
162,	888448.10547,	807751.92701,	1754.78229,CL
163,	888536.12613,	807751.50432,	1754.87476,CL
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247,	886592.23186,	781354.65002,	1585.27713,	CL

CURVE FORMULAS

$T = R \tan \frac{1}{2} I$

$T = \frac{50 \tan \frac{1}{2} I}{\text{Sin. } \frac{1}{2} D}$

$\text{Sin. } \frac{1}{2} D = \frac{50}{R}$

$\text{Sin. } \frac{1}{2} D = \frac{50 \tan \frac{1}{2} I}{T}$

$R = T \cot. \frac{1}{2} I$

$R = \frac{50}{\text{Sin. } \frac{1}{2} D}$

$E = R \text{ ex. sec } \frac{1}{2} I$

$E = T \tan \frac{1}{4} I$

$\text{Chord def.} = \frac{\text{chord}^2}{R}$

$\text{No. chords} = \frac{I}{D}$

$\text{Tan. def.} = \frac{1}{2} \text{ chord def.}$

The square of any distance, divided by twice the radius, will equal the distance from tangent to curve, very nearly.

To find angle for a given distance and deflection.

Rule 1. Multiply the given distance by .01745 (def. for 1° for 1 ft.) and divide given deflection by the product.

Rule 2. Multiply given deflection by 57.3, and divide the product by the given distance.

To find deflection for a given angle and distance. Multiply the angle by .01745, and the product by the distance.

GENERAL DATA

Right Angle Triangles. Square the altitude, divide by twice the base. Add quotient to base for hypotenuse.

Given Base 100, Alt. $10.10^2 \div 200 = .5$. $100 + .5 = 100.5$ hyp.

Given Hyp. 100, Alt. $25.25^2 \div 200 = 3.125$. $100 - 3.125 = 96.875$ = Base.

Error in first example, .002; in last, .045.

To find Tons of Rail in one mile of track: multiply weight per yard by 11, and divide by 7.

Leveling. The correction for curvature and refraction, in feet and decimals of feet is equal to $0.574\ d^2$, where d is the distance in miles. The correction for curvature alone is closely, $\frac{2}{3} d^2$. The combined correction is negative.

Probable Error. If d_1, d_2, d_3, etc. are the discrepancies of various results from the mean, and if Σd^2 = the sum of the squares of these differences and n = the number of observations, then the probable error of the mean =

$$\pm 0.6745 \sqrt{\frac{\Sigma d^2}{n(n-1)}}$$

MINUTES IN DECIMALS OF A DEGREE

1'	.0167	11'	.1833	21'	.3500	31'	.5167	41'	.6833	51'	.8500
2	.0333	12	.2000	22	.3667	32	.5333	42	.7000	52	.8667
3	.0500	13	.2167	23	.3833	33	.5500	43	.7167	53	.8833
4	.0667	14	.2333	24	.4000	34	.5667	44	.7333	54	.9000
5	.0833	15	.2500	25	.4167	35	.5833	45	.7500	55	.9167
6	.1000	16	.2667	26	.4333	36	.6000	46	.7667	56	.9333
7	.1167	17	.2833	27	.4500	37	.6167	47	.7833	57	.9500
8	.1333	18	.3000	28	.4667	38	.6333	48	.8000	58	.9667
9	.1500	19	.3167	29	.4833	39	.6500	49	.8167	59	.9833
10	.1667	20	.3333	30	.5000	40	.6667	50	.8333	60	1.0000

INCHES IN DECIMALS OF A FOOT

1/16	3/32	1/8	5/16	1/4	5/16	3/8	1/2	5/8	3/4	7/8
.0052	.0078	.0104	.0156	.0208	.0260	.0313	.0417	.0521	.0625	.0729

1	2	3	4	5	6	7	8	9	10	11
.0833	.1667	.2500	.3333	.4167	.5000	.5833	.6667	.7500	.8333	.9167

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Panaling Pg# 1-5
GPS control Pg# 8
GPS "A" Pg# 9
GPS "B" Pg# 10

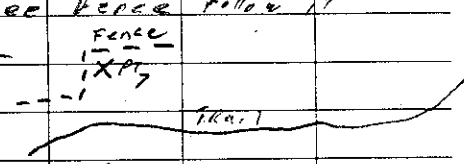
PT	Dec.
5	Set PK on westside of Power Rd ±600' N. of South entrance To Granite Reef Dam ±100' S. of North entrance To " " "
3	Set Rebar ±1000' West on Granite Reef Dam access Road (south one) ±30' N. of Road 30' N.NE. of Power Pole #78
4.	Set Rebar in Granit Reef Recrational Park ±70 N. from Handicap Parking ±40 South of edge of lake ±60' N.NW. of outhouse
11	Set Rebar ±110' E. of Power Rd. ±40 West of Barbwired Chainlink fence for channell ±2000' South of intersection of Power & Thomas Rd (Engl crest drive)
GPS1	Found Cotten Picker in Pot. Hole @ McDowell & 82nd ST.
10	Set PK West side of Usery Pass Rd. in Paving ±4000 North of Usery Park Rd.

PT	Dec.
12	SetPK in ℄ of Mickeyghan DR. on Southern Extreem curve inBetween Campgrands 33 & 31
20	SetRebar ± 600 N. of Lost Dutchman Boulevard (Pink Ribon Line To Panel from Road) ± 150' East of Vally Rd & Lost Dutchman (To Ribon Trail)
18	* SetPK in ℄ of Apache Trail (Hiway 88) ± 500' South of Hackamor Rd. ± 3000' N. NE of @ apache Trail & Lost Dutchman
16	* SetRebar ± 10 To E. Side of Hackamor Rd. ± 1300 North of Microwave Tower next To Power Substation
14	SetRebar ± 200' E. of Wash acess is of off Hackmor Rd Tack Left Forck To ARA Gravel Pit Right before Pit Tack Right on wash (Dirt Road) ± 1700' Ribon Trail To Panell

* Note Hackamor Rd is a unmarked dirt Rd. coming of off Apache Trail ± 120 North of Apache Junction welcome Sign (For Southbound Traffic)

← Property Boundry & no camping Sign at end of Hackmor Rd

PT	Dec.
1	Set Rebar in SE corner of Granit Reef Dam acesse on N. Genit Reef Dam acesse Rd.
2	Set Rebar on N. Side of Chain Link Fence on S. Side of Aqueduct acess Through SandPit on Granit Reef Dam Rd.
6.	Set Rebar ± 1200' E. of Power Rd on hill next To wash acess from Trail ± 1000 N. of aqueduct Road crosing on E Side of Power Rd
7.	Set Rebar in cor of Fence on E. Side Canall ± 1200 E. of Power Rd acess of Trail see PT#6 Follow Trail ± 3500' (Starts E. Then Bends N.) until you see Fence Follow it To N.W. Cor
8	Set Rebar Follow Trail from PT 7 & 6



Pt	Dec
9	Set Rebar ± 2500 E. of Power Rd Follow See PT 6 & 7 For Pic & Dec of access
17	Set Rebar on E. Side of Chandalle ± 20' E. Side of dirt access Road Dirt Rd ± 1500 E of Terripin & McKellips Rd.
13	Set Rebar ± 2200 N. of end of Maridan Rd (Follow Hovis Trail)
15	Set Rebar ± 15 S.W. from intersection of Delamar & Canon
23	Set Rebar ± 1/2 mile W. of apache Trail & ± 1500' S. of Lost Dutchman Rd access of off apache 0.3 miles South of Dutchman Rd. To W. is Dirt Rd Follow it N. ensil it Turns South PT 23 is ± 250 N.W. of Ribbon

PT	Dec
GPS #3	Set Rebar In Turn out on E. side Dirt Rd (Mackdowel?) acess from Mcdowel & Cactes The E. on Mcdowel ± 500 Follow entell Turns N. Point in Turn out
GPS #2	Set Rebar ± 1500' W. of Canon Rd acess from Canon Then walk PT is apx. due W. from Brown Adobe Bulding
21	Set Rebar ± 2500 S. of Brown Rd on Power line
19	Found Bc. Flush @ Grandveiw ST. & Faith
22	Set Rebar ± 300' S. of Singal Butte dam ± 2500' E. of Singal Butte Road & ± 1500' N. of Brown Rd

GPS ARIAL

UNIT	PT	HR			
*Rover	GPS#2	2.079			
#1	GPS#1	1.798			
#2	GPS#3	2.057			

GPS Observations

Unit	PT	HR	Epochs	Time on	Time of
#3	15	1.798		9:01	1:26
#2	11	1.874		9:30	1:04
#1 Rover	3	2.034	120	9:44	9:54
	1		12	9:58	9:59
	2		12	10:02	10:03
	5		12	10:09	10:10
	4	2.034	120	10:15	10:25
	6		120	11:01	11:11
	6		120	11:12	11:23
	7		120	11:40	11:50
	8		120	11:58	12:08
Rover	9	2.034	120	12:17	12:27
		End session			
		Rover off 12:29			

* Lots of Trees 10 minute Session This PT
* Battery dead 10 minute Session This PT
Rover Rebooted after Session Restart This PT
ANTAnn Cabel Broke 10 minute Ssession (again) This PT

Rover Reset (again) 10 minuts This PT

Unit	PT	HR	Epochs	Time on	Time off	Dec
#3	23	1.881		7:31	12:30	See Pg# 4 for Dec
Rover	16	2.034	120	7:52	8:02	See Pg# 2 for Dec
	14		12	8:11	8:12	See Pg# 2 for Dec
	18		12	8:23	8:24	See Pg# 2 for Dec
	20		120	8:43	8:53	* Rover Turned off again 10 minutes This
						PT See Pg# 2 for Dec
	GPS 3		12	9:09	9:10	See Pg# 5 for Dec
	15		12	9:20	9:21	See Pg# 4 for Dec
	13		12	9:37	9:38	See Pg# 4 for Dec
	22	2.034	12	10:02	10:03	See Pg# 5 for Dec
	19		12	10:12	10:13	See Pg# 5 for Dec
	21		12	10:26	10:27	See Pg# 5 for Dec
	17		12	10:42	10:43	See Pg# 4 for Dec
	GPS 1		12	10:53	10:54	See Pg# 2 for Dec
	10		12	11:02	11:03	See Pg# 2 for Dec
	12		12	11:10	11:11	See Pg# 2 for Dec
	11		12	11:27	11:28	See Pg# 1 for Dec
Rover	GPS 3	2.034	120	11:58	12:08	See Pg# 5 for Dec * (Did a 10 Minute To
	End Session		Rover off 12:13			Tighten up control)

Te # 5.15
BS # 2 4.80

PT #	HR	DESC
100	4.80	℄
101		
102		
103		
104		
105		
106		
107		
108		
109		
110		
111		
112		
113		
114		
115		
116		
117		
118		
119		
120		
121		
122		
123	4.80	℄

PT #	HR	DESC
124	4.80	℄
125		
126		
127		
128		
129		
130		
131		
132		
133		
134		
135		
136		
137		
138		
139		
140		
141		
142		
143		
144	4.80	
145	8.41	
146		
147		
148		
149		
150		
151	8.41	℄

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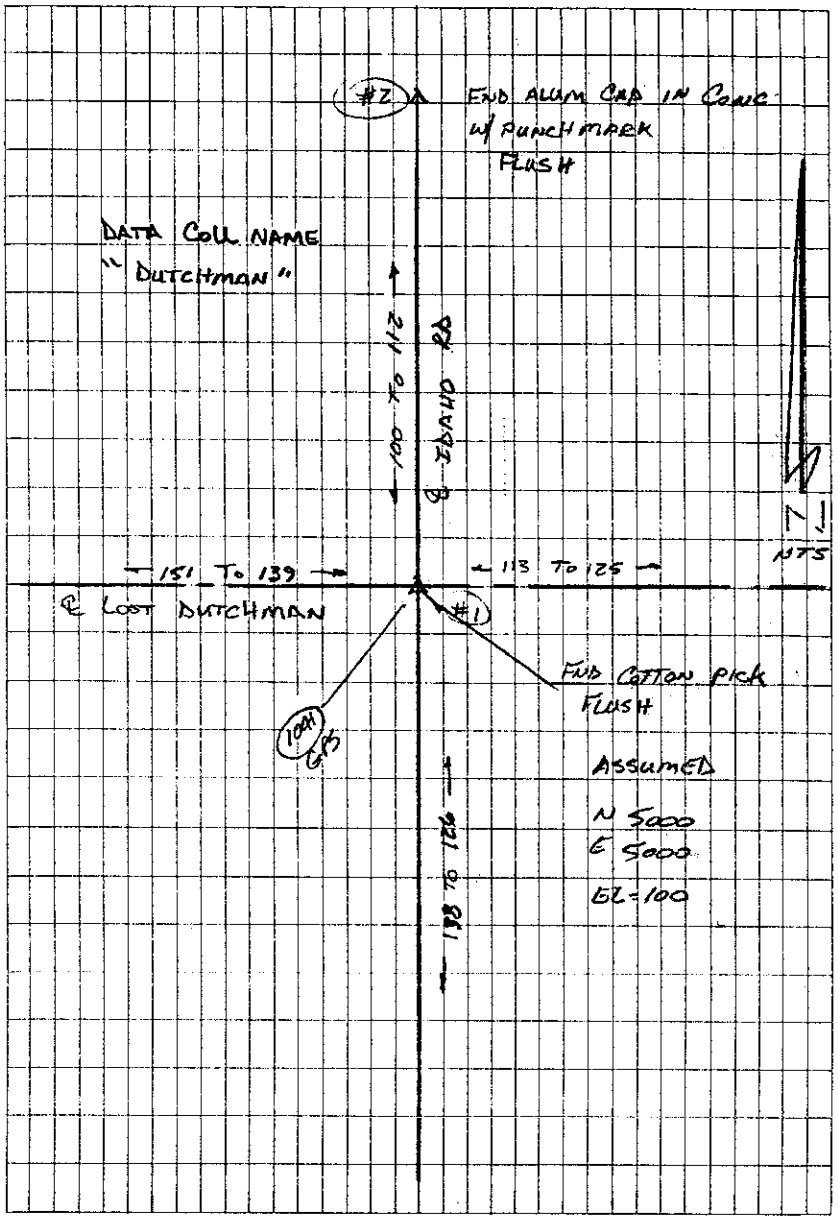

T @ #3 BS #4 w/00-00-00 ∡ RT

FS #5 179-08-03 HD= 1279.19

T @ #5 5.04
BS #3 4.80

PT #	HR	DEC
152	4.80	℄
153		
154		
155		
156		
157		
158		
159		
160		
161	4.80	
162	8.41	
163		
164		
165	8.41	℄
166		
167		
168		
169		
170		

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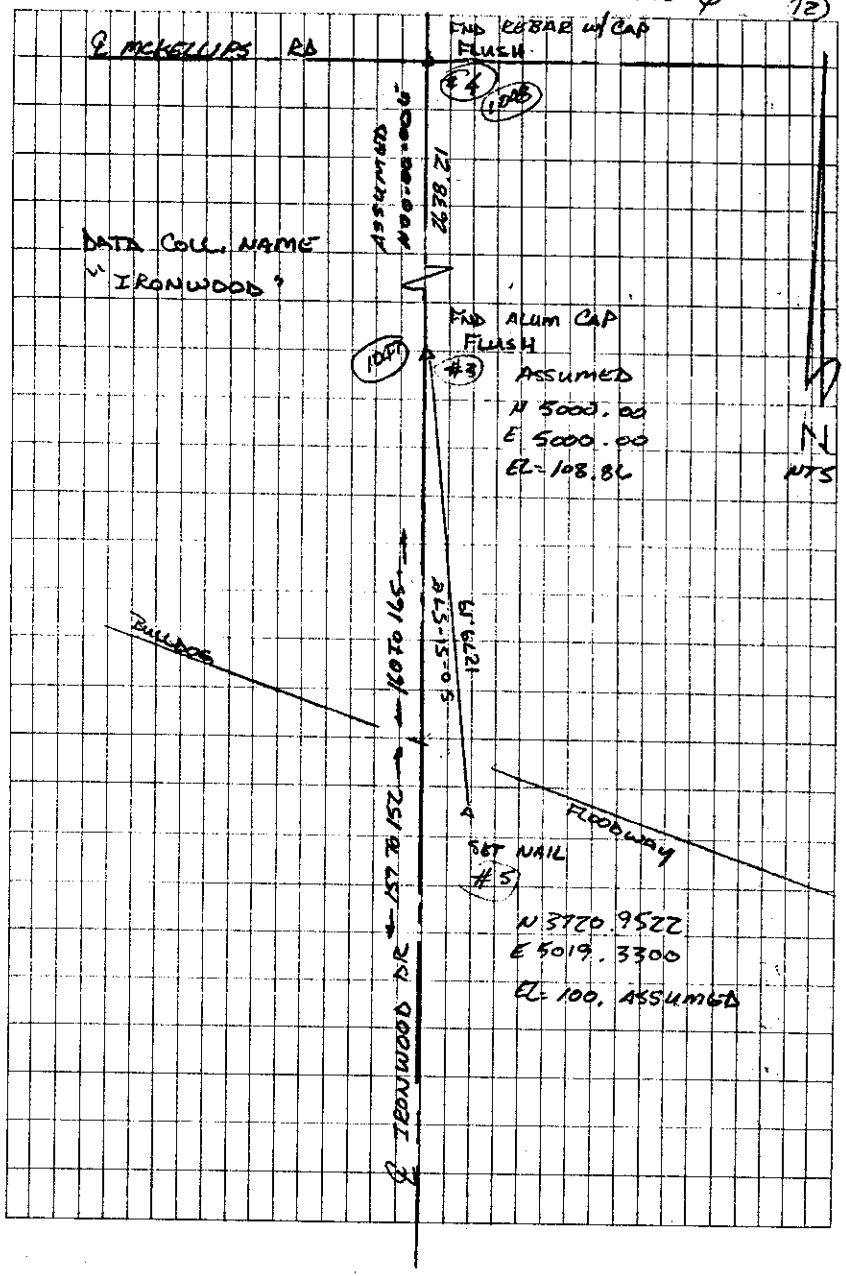
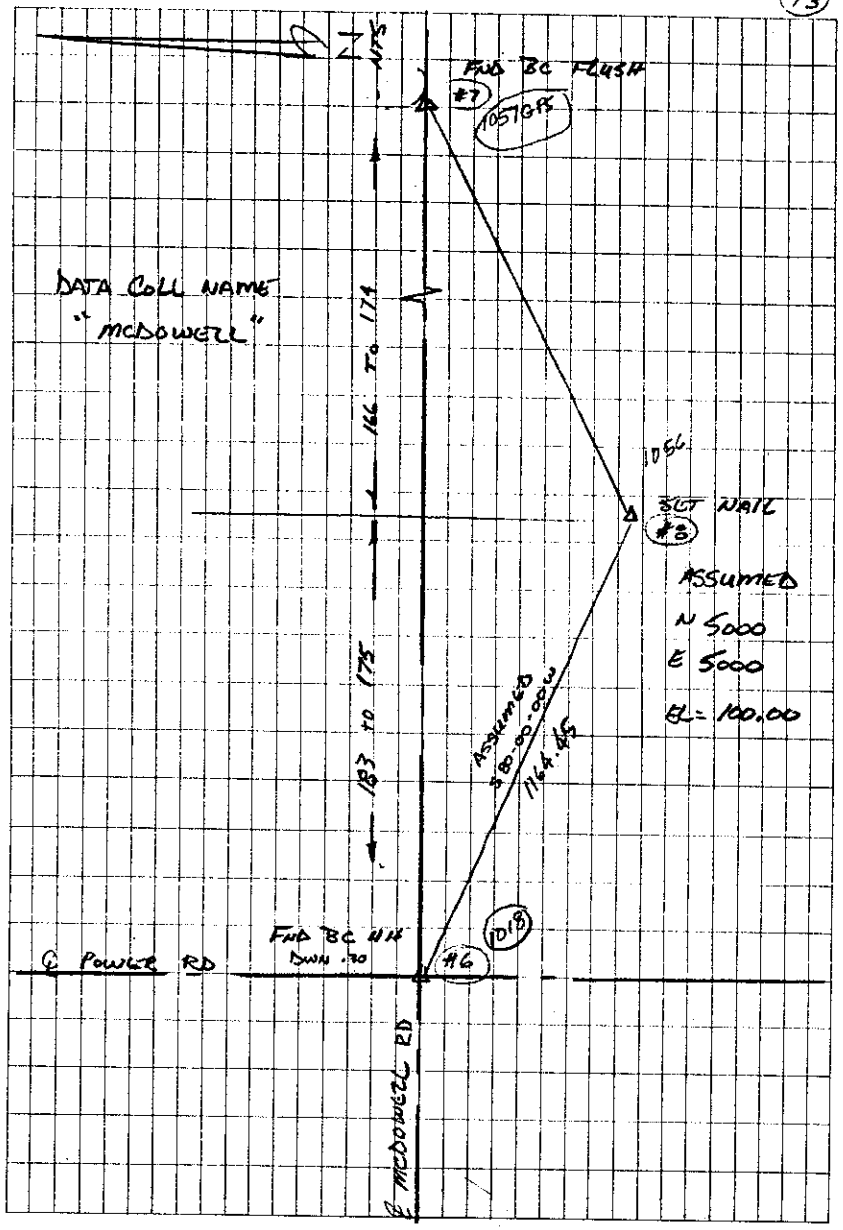


	Ā @ # 8	BS # 6	w/00-00-00 ∡ RT			
FS # 7	178-13-05		HD= 1314.85			
Ā @ # 8	5.10					
BS # 6	4.80					
PT #	HR	DESC				
166	4.80	℄				
167						
168						
169						
170						
171						
172						
173						
174						
175						
176						
177						
178						
179						
180						
181						
182						
183	4.80	℄				

4-7-00

(13)



T@ #8 5.70
BS # 4.30

PT #	HR	DESC
184	4.80	℄
185		
186		
187		
188		
189		
190		
191		
192		
193		
194		
195		
196		
197		
198		
199		
200	4.80	℄

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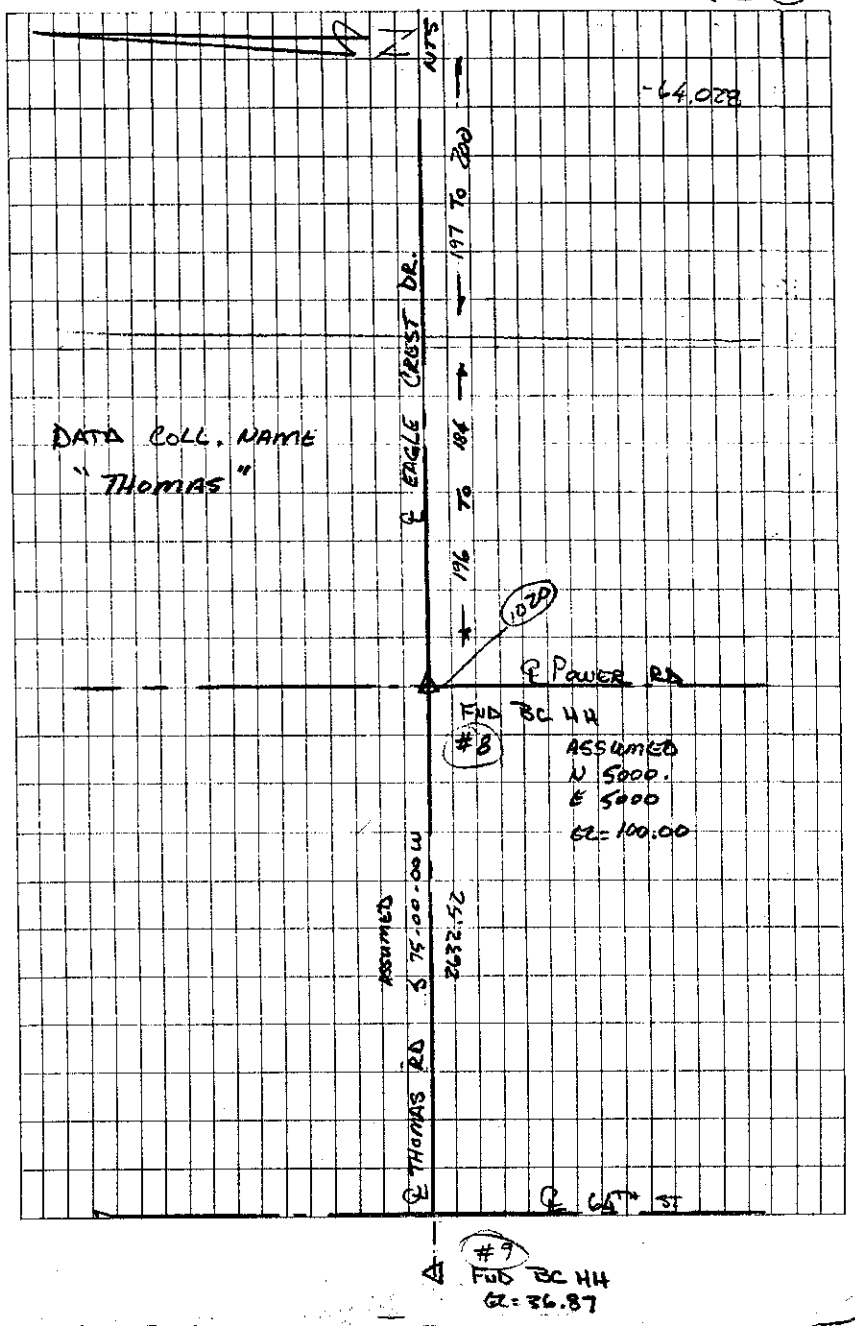

HI [illegible].01 HR: 6.23

T @ #11 BS #10 w/00-00-00

FS #12 178.13-53 HD: 1152.66

T @ #11 501
~~BS #10 6.23~~

PT #	HR	DESC	PT #	HR	DESC
201	4.80	℄	216	4.80	℄
202			217		
203			218		
204			219		
205			220		
206			221		
207			222		
208			223		
209			224		
210			225	4.80	℄
211					
212					
213					
214					
215	4.80	℄			

1357.65
-37.26

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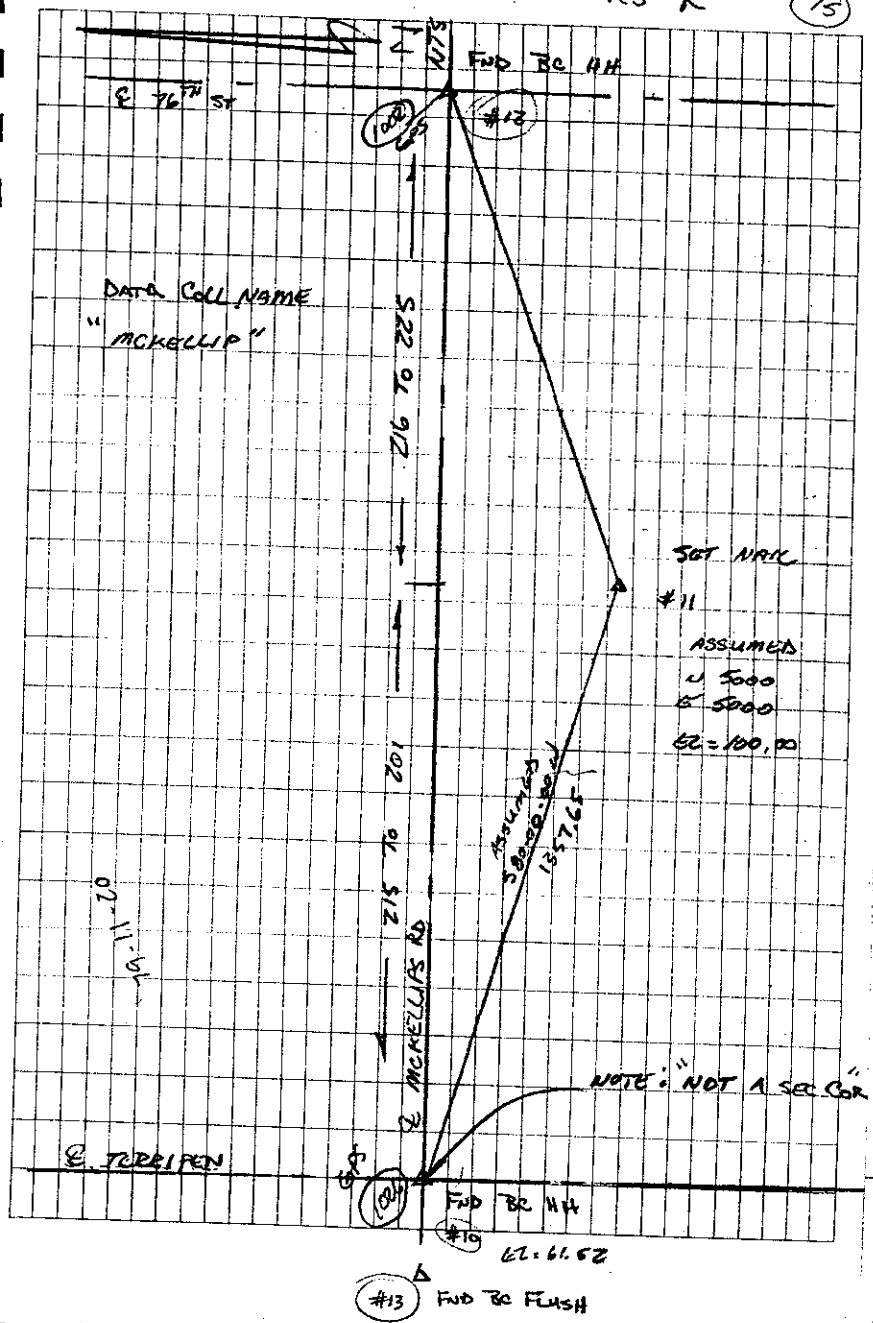

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FS # 15	178-05-42		HD= 888.43			
T @ 16 5.02						
BS 14 6.14						
PT #	HR	DESC				
227	4.80	℄				
228						
229						
230						
231						
232						
233						
234						
235						
236						
237						
238						
239						
240						
241						
242						
243						
244						
245						
246						
247	4.80	℄				

4-10-00

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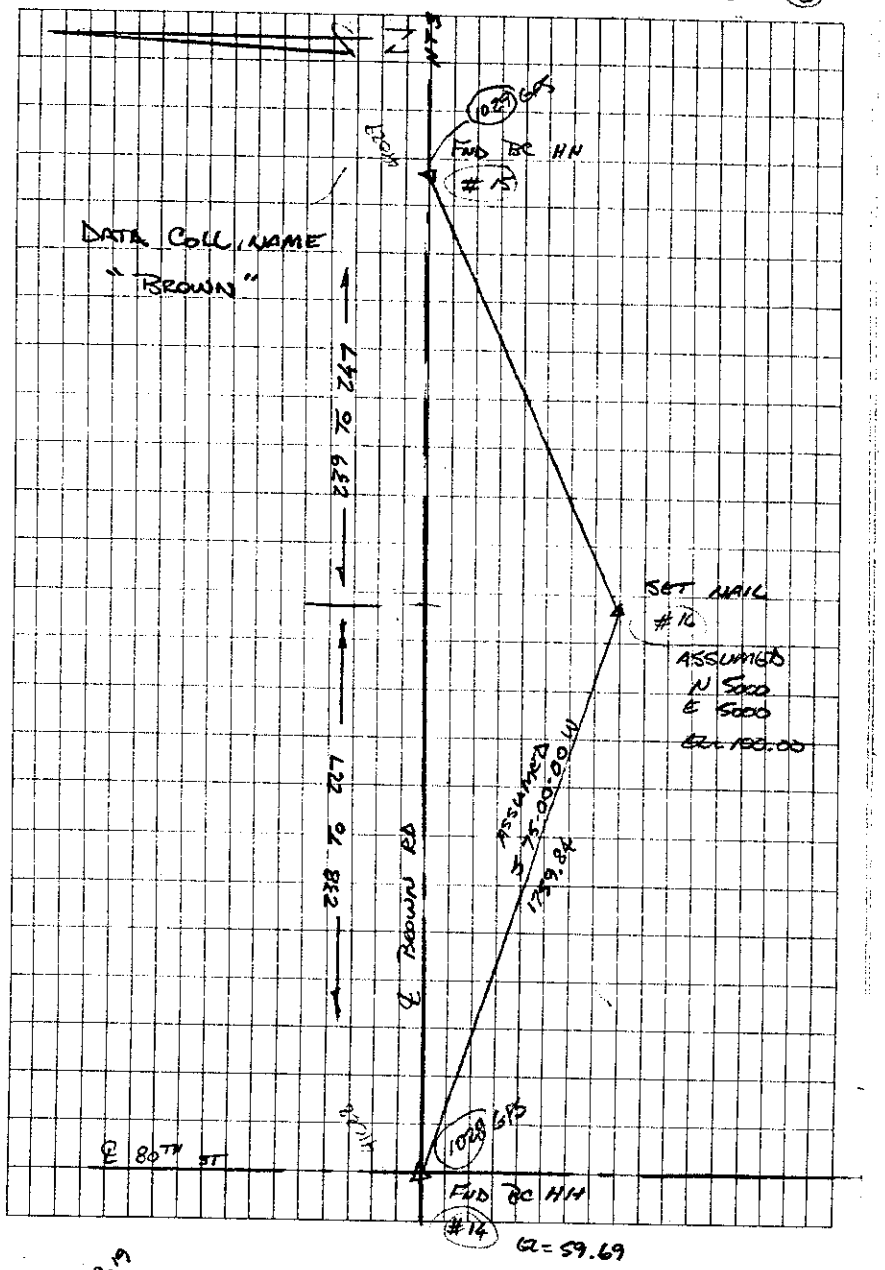

-39.19

CURVE FORMULAS

$T = R \tan \frac{1}{2} I$

$T = \frac{50 \tan \frac{1}{2} I}{\text{Sin. } \frac{1}{2} D}$

$\text{Sin. } \frac{1}{2} D = \frac{50}{R}$

$\text{Sin. } \frac{1}{2} D = \frac{50 \tan \frac{1}{2} I}{T}$

$R = T \cot. \frac{1}{2} I$

$R = \frac{50}{\text{Sin. } \frac{1}{2} D}$

$E = R \text{ ex. sec } \frac{1}{2} I$

$E = T \tan \frac{1}{4} I$

$\text{Chord def.} = \frac{\text{chord}^2}{R}$

$\text{No. chords} = \frac{I}{D}$

$\text{Tan. def.} = \frac{1}{2} \text{ chord def.}$

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To find Tons of Rail in one mile of track: multiply weight per yard by 11, and divide by 7.

Leveling. The correction for curvature and refraction, in feet and decimals of feet is equal to $0.574\ d^2$, where d is the distance in miles. The correction for curvature alone is closely, $\frac{2}{3} d^2$. The combined correction is negative.

Probable Error. If d_1, d_2, d_3, etc. are the discrepancies of various results from the mean, and if Σd^2 = the sum of the squares of these differences and n = the number of observations, then the probable error of the mean = $\pm 0.6745 \sqrt{\frac{\Sigma d^2}{n(n-1)}}$

MINUTES IN DECIMALS OF A DEGREE

1'	.0167	11'	.1833	21'	.3500	31'	.5167	41'	.6833	51'	.8500
2	.0333	12	.2000	22	.3667	32	.5333	42	.7000	52	.8667
3	.0500	13	.2167	23	.3833	33	.5500	43	.7167	53	.8833
4	.0667	14	.2333	24	.4000	34	.5667	44	.7333	54	.9000
5	.0833	15	.2500	25	.4167	35	.5833	45	.7500	55	.9167
6	.1000	16	.2667	26	.4333	36	.6000	46	.7667	56	.9333
7	.1167	17	.2833	27	.4500	37	.6167	47	.7833	57	.9500
8	.1333	18	.3000	28	.4667	38	.6333	48	.8000	58	.9667
9	.1500	19	.3167	29	.4833	39	.6500	49	.8167	59	.9833
10	.1667	20	.3333	30	.5000	40	.6667	50	.8333	60	1.0000

INCHES IN DECIMALS OF A FOOT

1/16	3/32	1/8	3/16	1/4	5/16	3/8	1/2	5/8	3/4	7/8
.0052	.0078	.0104	.0156	.0208	.0260	.0313	.0417	.0521	.0625	.0729

1	2	3	4	5	6	7	8	9	10	11
.0833	.1667	.2500	.3333	.4167	.5000	.5833	.6667	.7500	.8333	.9167

Elan Publishing Co., Inc. Meredith, N.H. 03253

SPOOK HILL

Dec 1999

PT	ROD	TIME ON	TIME OFF	EPOCHS
SG 17	2.034	11:23	11:33	120
1262	2.034	11:49	11:50	12
DEAD BATTERY				
		"B"		
A365	2.034	12:05	12:15	120
KELL	2.034	12:31	12:32	12
S269	2.034	12:53	12:54	12
~~Z421~~	2.034	12:58	1:08	120
GPS 1	1.798m			BASE
GPS 2	2.071m			BASE
GPS 3	2.057m			BASE

BM 1262 AHD 18K P3M A-F BM1262

-29.335m

-29.242m

-29.146m

5-1-2000

St	Rod	Oper	Unit	Epochs	
SG 17	1.985	JR	"B"	STATIC	
A 365	1.747	JR	"A"	STATIC	
1000	2.149	JR	Rover	60	Random
1001	2.149	JR	"	6	
1002	2.149	JR	"	6	
1003	2.149	JR	"	6	
1004	2.149	JR	"	6	
1005	2.149	JR	"	6	
1006	2.149	JR	"	6	
1007	2.149	JR	"	6	
1008	2.149	JR	"	6	
1009	2.149	JR	"	6	
1010	2.149	JR	"	6	
1011	2.149	JR	"	6	
1012	2.149	JR	"	6	
1013	2.149	JR	"	6	
1014	2.149	JR	"	6	
1015	2.149	JR	"	6	
1016	2.149	JR	"	6	

Random
FND 1" PIPE @ Hermosa Vista & 76TH ST
BC in H.H. @ 76TH ST & McKellips
1/2" Rebar @ McKellips 1/2 mile E. of 76TH ST (marked 5'/4 cor.)
1" rebar @ McKellips & Hanes Rd
BCF @ Hanes & Hermosa Vista
1" pipe @ McKellips 1/2 mile E. of Hanes
1" bar (0.6' deep) 500' ± E. of Usery Pass - on ℄ McKellips
PK @ McKellips 1/2 mile W. of Crismon Rd
1/2" rebar in dirt @ McKellips & Crismon
G.C.O.-BC 100' ± W of Crismon & 1/2 mile S. of McKellips
BC in HH @ Crismon & Brown
BC in H.H. @ Brown & 104TH ST
BC in H.H @ Brown & Signal Butte
1" bar 1' below surface & Signal Butte & McLellan
PK in & 1" pipe @ 104TH ST & McLellan
BC HH Brown & 96TH ST

5-2-2001

S	ROD	OPER	UNIT	EPOCHS
SG17	1.676	JR	"A"	STATIC
A365	1.882	JR	"B"	STATIC
1017	2.149	JR	ROVER	120
1018	2.149	JR	"	6
1019	2.149	JR	"	6
1020	2.149	JR	"	6
1021	2.149	JR	"	6
1022	2.149	JR	"	6
1023	2.149	JR	"	6
1024	2.149	JR	"	6
* 1025	2.149	JR	"	6
1026	2.149	JR	"	6
1027	2.149	JR	ROVER	6
1028	2.149	JR	"	6
1029	2.149	JR	"	6
1030	2.149	JR	"	6
1031	2.149	JR	"	6
* 1032	2.149	JR	"	6
1033	2.149	JR	"	6
1034	2.149	JR	"	6
1035	2.149	JR	"	6
1036	2.149	JR	"	6
1037	2.149	JR	"	6
1038	2.149	JR	ROVER	6

BC FLUSH & CUL-DE-SAC McLELLAN (NEAR SOSSAMAN ALIGNMENT)
BC HH McDOWELL & POWER
1/2' REBAR & MEDIAN 1/2 MILE± N. OF McDOWELL ON POWER
BC HH THOMAS & POWER
BC HH & MEDIAN POWER RD 1/2 MILE N. OF THOMAS
BC HH & POWER 1 MILE N OF THOMAS
BC HH 55'± E OF POWER RD 1 1/2 MILE± N OF THOMAS
GLO BC 19/24 (T) 18/19 T2N RGE RTE
GPS 1 @ 82ND ST & McDOWELL
BC HH TERRAPIN & McKELLIPS
BC HH & BROWN 1 MILE± E. OF POWER
BC HH BROWN & 80TH ST.
BC HH 1/2 MILE E. OF 80TH ST & BROWN
BC HH & MEDIAN BROWN 1/2 MILE± W. OF ELLSWORTH (NOT 1/4 COR)
BC IN Conc 1/4 COR 8/9 (McKELLAN & 84TH ST EXTENDED)
△ BC IN Conc "KELL"
RR SPIKE @ McLELLAN & ELLSWORTH
RR SPIKE @ BROWN & ELLSWORTH
BC FLUSH @ ELLSWORTH & ADOBE
BC HH @ BROWN & MOUNTAIN
BC F @ BROWN (LOST DUTCHMAN) & MERIDIAN
BC HH @ LOST DUTCHMAN & DELAWARE)

DIA	ROD	TYPE	UNIT	CROCKS	
1039	2.149	JR	ROVER	6	
1040	2.149	JR	"	6	
1041	2.149	JR	"	6	
1042	2.149	JR	"	6	
* 1043	2.149	JR	"	120	

BC FLUSH @ ~~LOST~~ DUTCHMAN & IRONWOOD

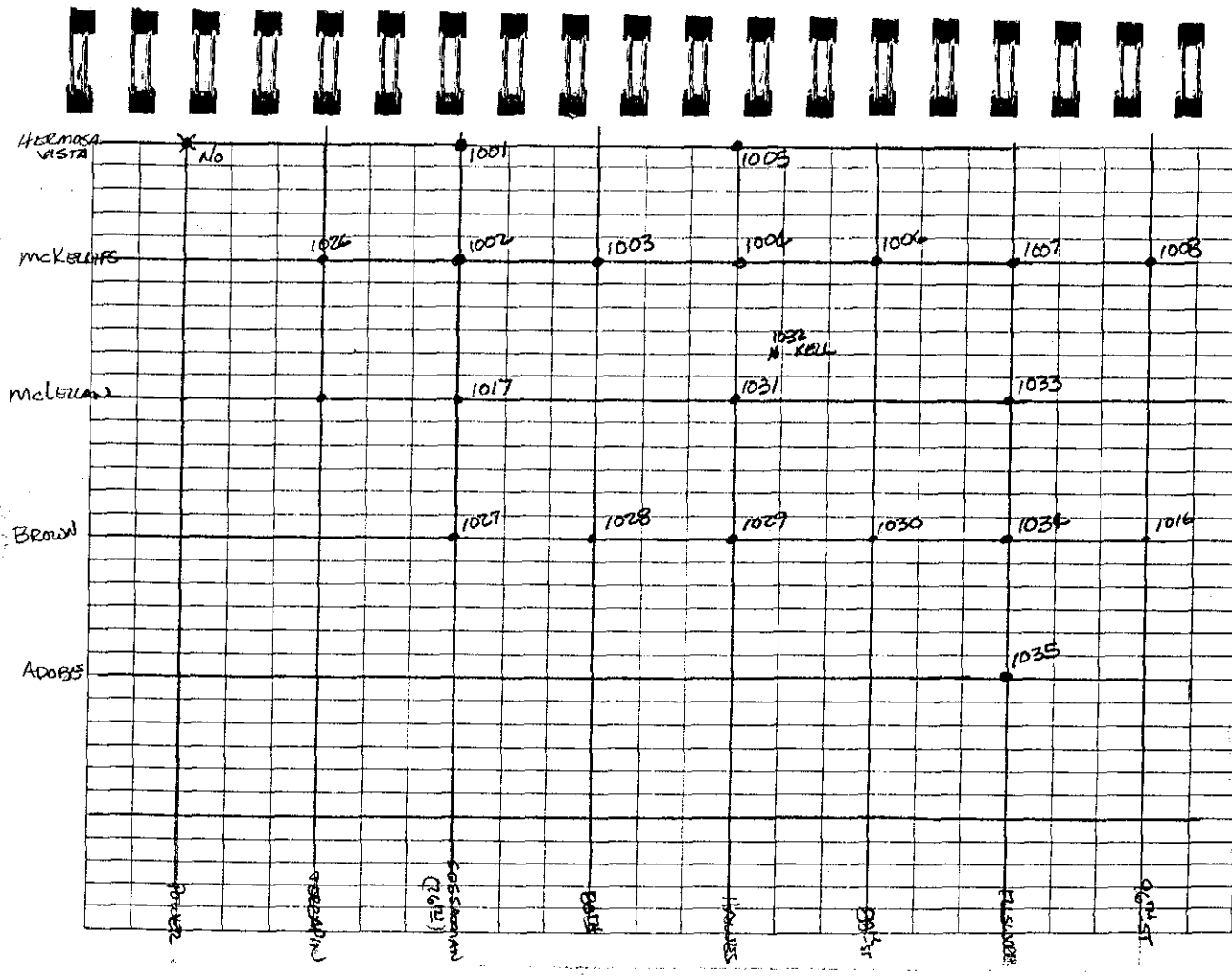
BC FLUSH @ LOST DUTCHMAN & SANMARCOS

CP SPINDLE W/STRAD. LOST DUTCHMAN & IDAHO

BC 1° DEEP @ LOST DUTCHMAN & TOMAHAWK

S269 B.CAP in CONC

1024
1023
2201
1021
1020
1019
1018
POWER ROAD
I. SCHOOL
THOMAS
McDOWELL


HERMOSA VISTA
MCKELLIPS
MCLEZAN
BROWN
ADOBE
NO
1001
1003
1026
1002
1003
1004
1006
1007
1008
1032
KEEL
1017
1031
1033
1027
1028
1029
1030
1034
1016
1035
POLK
BARTON
COSSMAN (7th PL)
BARTON
HAWKES
BOLT
PLUMOOD
90TH ST

GPS 5-22-2010

STA	ROD	OPER	UNIT	EPOCHS
5617	1.764	JR	"A"	STATIC
1043	1.907	JR	"B"	STATIC
1044	2.149	JR	ROVER	120
1045	2.149	JR	ROVER	6
1046	2.149	JR	ROVER	6
1047	2.149	JR	ROVER	6
1048	2.149	JR	ROVER	6
1049	2.149	JR	ROVER	6
1050	2.149	JR	ROVER	6
1051	2.149	JR	ROVER	6
1052	2.149	JR	ROVER	6
1053	2.149	JR	ROVER	6
1054	2.149	JR	ROVER	6
1055	2.149	JR	ROVER	6
1056	2.149	JR	ROVER	6
1057	"	JR	"	6
1058	2.149	JR	"	6
1059	2.149	JR	"	6
1060	2.149	JR	"	6
1061	2.149	JR	"	6
1062	2.149	JR	"	6
1063	2.149	JR	"	120

S269 BCAP

PK – 1/2 MILE ± W. OF TOMAHAWK ON LOST DUTCHMAN

BC FLUSH ℄ IDAHO 1/2 ± MILE N. OF LOST DUTCHMAN

PK W/ STRADDLERS @ IDAHO & TEPEE

BC FLUSH ℄ IRONWOOD 1/2 MILE ± N. OF LOST DUTCHMAN

REBAR W/ PLASTIC CAP @ IRONWOOD & MCKELLIPS IN PAVEMENT

REBAR FLUSH @ MCKELLIPS & DELAWARE

BC HH @ MERIDIAN & MCKELLIPS

BC FLUSH ℄ MERIDIAN & 1/2 ± MILE S. OF MCKELLIPS (1/4 T1N R8E S7)

BC HH @ MCKELLIPS & POWER

BC HH @ MCDOWELL & 76TH ST.

BC HH @ POWER & HERMOSA VISTA (WEST IN NOTHING EAST)

BCF ℄ HAWES (84TH) 1/2 MILE N. OF UNIV.

NAIL (TOPO POINT GREG #8?)

BCF (TOPO POINT GREG #7?)

PK (REFERENCE)

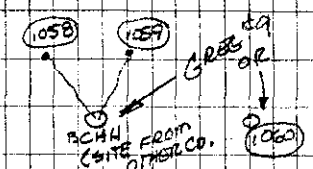
PK (")

BC HH 64TH ST

NAIL GREG #11 TOPO

NAIL GREG #16 TOPO

NAIL GREG #5 TOPO



NGS Data

```
DESIGNATION -  A 365
PID         -  DU0654
STATE/COUNTY-  AZ/MARICOPA
USGS QUAD   -  BUCKHORN

HORZ DATUM  -  NAD 83 (1992)
VERT DATUM  -  NAVD 88

POSITION    -  33 26 55.04154(N)    111 40 27.33851(W)     ADJUSTE
D
92 minus 83        +00.00802             -00.00450        ADJUSTE
D
83 minus 27 -      +00.16793             +02.49212        NADCON

HEIGHT      -      473.781  (meters)    1554.40   (feet)  ADJUST
88 minus 29 -       +0.586                                 ADJ UNC
HK
*****************************************************************
*****
LAPLACE CORR-        2.83                                  DEFLEC9
3
GEOID HEIGHT-      -29.34                                  GEOID93
ELLIP HEIGHT-      444.402
X           -  -1967632.761
Y           -  -4950915.704
Z           -   3495826.003
MODELED GRAV-   979,428.4                                  NAVD88

HORZ ORDER  -  A
VERT ORDER  -  FIRST     CLASS 2
ELLP ORDER  -  THIRD     CLASS 1
```

The horizontal coordinates were established by GPS observations and adjusted by the National Geodetic Survey in September 1992.

The orthometric height was determined by differential leveling and adjusted by the National Geodetic Survey in June 1991.

The Laplace correction was computed from DEFLEC93 derived deflecti ons.

The geoid height was determined by GEOID93.

The ellipsoidal height was determined by GPS observations and reference to NAD83.

The X, Y, and Z were computed from the position and the ellipsoida l ht.

The modeled gravity was interpolated from observed gravity values.

		North	East	Scale	Converg.	
SPC AZ C	-	271,528.889	235,896.050	0.99990626	+0 08 01	.0 MT
UTM 12	-	3,701,226.334	437,333.498	0.99964841	-0 22 18	.0 MT

STATION MARK IS A BENCH MARK DISK
WITH SETTING: SET IN DRILL HOLE IN ROCK OUTCROP
THE MARK IS STAMPED: A 365 1967
STABILITY: A = MOST RELIABLE AND EXPECTED TO HOLD
STABILITY: POSITION/ELEVATION WELL
SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
SATELLITE: SATELLITE OBSERVATIONS - February 12, 1992

		Year	Condition	Recov. By
HISTORY	-			
HISTORY	-	1967	STATION MONUMENTED	COAST AND GEODETIC SURVEY
HISTORY	-	1975	GOOD	NATIONAL GEODETIC SURVEY
HISTORY	-	1981	GOOD	NATIONAL GEODETIC SURVEY
HISTORY	-	1986	GOOD	AZ DEPT OF TRANSP
HISTORY	-	1987	GOOD	NATIONAL GEODETIC SURVEY
HISTORY	-	1992	GOOD	NATIONAL GEODETIC SURVEY

STATION DESCRIPTION

DESCRIBED BY NATIONAL GEODETIC SURVEY 1975
TEXT WAS SUPERSEDED BY LATER RECOVERY.

STATION RECOVERY (1981)

RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1981
TEXT WAS SUPERSEDED BY LATER RECOVERY.

STATION RECOVERY (1986)

RECOVERY NOTE BY ARIZONA DEPARTMENT OF TRANSPORTATION 1986 (JRT)
THE STATION WAS RECOVERED AT THIS DATE.
THE STATION WAS FOUND IN GOOD CONDITION. PREVIOUS TO REACH
DESCRIPTION WAS ADEQUATE.

STATION RECOVERY (1987)

RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1987 (MRM)
THE STATION WAS RECOVERED AT THIS DATE.

THE STATION IS LOCATED ABOUT 7.2 KM (4.5 MI)
EAST-SOUTHEAST OF SIGNAL BUTTE,
7.2 KM (4.5 MI) NORTH OF SR 360 (SUPERSTITION FREEWAY) AND AT THE
BOTTOM OF THE WEST END OF A SMALL HILL.
OWNERSHIP--UNKNOWN.

TO REACH THE STATION FROM THE JUNCTION OF STATE ROUTE 360
(SUPERSTITION FREEWAY) AND POWERS ROAD IN MESA, GO
NORTH FOR 3.2 KM (2.0 MI) ON POWERS ROAD TO APACHE TRAIL.
CONTINUE STRAIGHT AHEAD AND GO NORTH FOR 4.0 KM (2.5 MI) ON BUSH
HIGHWAY TO MCKELLIPS ROAD.
TURN RIGHT AND GO EAST FOR 0.8 KM (0.5 MI) ON MCKELLIPS ROAD TO A
DIRT ROAD ON THE RIGHT, AT THE END OF A BLOCK WALL.
TURN RIGHT AND GO SOUTHEAST FOR 0.3 KM (0.2 MI) ON THE DIRT ROAD T
O
A DIRT ROAD LEFT.
CONTINUE STRAIGHT AHEAD AND GO SOUTHEAST FOR
0.1 KM (0.05 MI) ON THE DIRT ROAD TO THE WEST BASE OF A SMALL HILL
AND THE STATION, BETWEEN TWO LARGE PALOVERDE TREES.

THE STATION IS A STANDARD CGS BENCH MARK DISK
STAMPED---A 365 1965---,
SET INTO A DRILL HOLE IN THE TOP OF ROCK OUTCROP OF 0.5 METERS
LARGEST DIMENSION. LOCATED
15.2 METERS (50.0 FT) SOUTHEAST FROM THE APPROXIMATE CENTER OF THE
TRAIL ROAD AROUND THE HILL,
9.7 METERS (31.8 FT) NORTHEAST FROM A PALOVERDE TREE AND
8.3 METERS (27.2 FT) SOUTH FROM A PALOVERDE TREE.

CALIFORNIA FAA AIRPORTS, 1987.

THIS STATION SUITABLE FOR GPS SURVEYS.

DESCRIBED BY S.E. RANDALL.

STATION RECOVERY (1992)

RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1992
TEXT WAS SUPERSEDED BY LATER RECOVERY.
THE STATION IS LOCATED ABOUT 12 KM (7.5 MI) NORTHEAST OF MESA, 4 K
M
(2.5 MI) EAST-SOUTHEAST OF FALCON FIELD, 0.3 KM (0.2 MI) SOUTH OF
MCKELLIPS ROAD, JUST NORTHWEST OF THE FALCON HILL ELEMENTARY SCHOO
L,
ON THE WEST END OF A LOW RIDGE AND AT THE TOE OF THE HILL.
OWNERSHIP--UNKNOWN.
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 360 AND PO

WER
ROAD (EXIT 16) ABOUT 14.4 KM (8.9 MI) EAST OF THE JUNCTION OF STAT
E
HIGHWAYS 87 AND 360 IN MESA, GO NORTH ON POWER ROAD FOR 3.29 KM
(2.04 MI) TO ITS JUNCTION WITH U.S. HIGHWAY 60 (MAIN STREET).
CONTINUE NORTH ON POWER ROAD FOR 3.98 KM (2.47 MI) TO A CROSSROAD.
TURN RIGHT, EAST ON MCKELLIPS ROAD FOR 0.98 KM (0.61 MI) TO A DIM
ROAD RIGHT, JUST BEFORE REACHING A CANAL CROSSING. TURN RIGHT,
SOUTH, CROSSING A SLIGHT HUMP, THEN TURN RIGHT, SOUTHWEST ON A DIR
T
ROAD ACROSS AN OPEN AREA FOR 0.28 KM (0.17 MI) TO TREES ON THE LEF
T.
TURN LEFT ACROSS THE FIELD FOR 0.08 KM (0.05 MI) TO A ROW OF BOULD
ERS
BETWEEN TWO TREES AND THE STATION 15 M (49.2 FT) BEYOND.
THE STATION IS SET IN A DRILL HOLE IN A 0.3 M (1.0 FT) X 0.5 M
(1.6 FT) X 0.1 M (0.3 FT) HIGH OUTCROP BETWEEN TWO PALO VERDE TREE
S
AND 1.0 M (3.3 FT) ABOVE THE SURROUNDING TERRAIN. LOCATED 55.0 M
(180.4 FT) WEST AROUND BASE OF RIDGE FROM THE NORTHWEST FENCE CORN
ER
OF SCHOOL PLAYGROUND, 10.0 M (32.8 FT) NORTHEAST OF A PARTIALLY DE
AD
PALO VERDE TREE AND 8.5 M (27.9 FT) SOUTH OF A PALO VERDE TREE.

```
DESIGNATION -  1262 AF
PID         -  DU1330
STATE/COUNTY-  AZ/MARICOPA
USGS QUAD   -  BUCKHORN

HORZ DATUM  -  NAD 83
VERT DATUM  -  NAVD 88

POSITION    -  33 24 56.     (N)    111 39 13.     (W)     SCALED
83 minus 27 -       +00.                  +02.             NADCON

HEIGHT      -       453.179  (meters)    1486.80   (feet)  ADJUST
88 minus 29 -        +0.580                                 ADJ UNC
HK
*****************************************************************
*****
GEOID HEIGHT-       -29.38                                  GEOID93
MODELED GRAV-   979,427.3                                   NAVD88

VERT ORDER  -  FIRST     CLASS 2
```

The horizontal coordinates were scaled from a topographic map and have
an estimated accuracy of +/- 6 seconds.

The orthometric height was determined by differential leveling and adjusted by the National Geodetic Survey in November 1993.

The geoid height was determined by GEOID93.

The modeled gravity was interpolated from observed gravity values.

```
STATION MARK IS A SURVEY DISK
WITH SETTING: SET IN A DRILL HOLE IN BEDROCK
THE MARK IS STAMPED: P AND M BM 1262-AF 73
STABILITY: A = MOST RELIABLE AND EXPECTED TO HOLD
STABILITY: POSITION/ELEVATION WELL
SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
SATELLITE: SATELLITE OBSERVATIONS - January 20, 1992

HISTORY     - Year Condition            Recov. By
HISTORY     - 1973 STATION MONUMENTED   AZ HIGHWAY DEPT
HISTORY     - 1981 GOOD                 NATIONAL GEODETIC SURVEY
HISTORY     - 1984 GOOD                 AZ DEPT OF TRANSP
HISTORY     - 1992 GOOD                 NATIONAL GEODETIC SURVEY
```

STATION DESCRIPTION

DESCRIBED BY NATIONAL GEODETIC SURVEY 1981
TEXT WAS SUPERSEDED BY LATER RECOVERY.

STATION RECOVERY (1984)

RECOVERY NOTE BY ARIZONA DEPARTMENT OF TRANSPORTATION 1984
TEXT WAS SUPERSEDED BY LATER RECOVERY.

STATION RECOVERY (1992)

RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1992
17.3 KM (10.75 MI) EASTERLY ALONG U.S. HIGHWAY 60 (MAIN STREET) FR
OM
THE JUNCTION OF STATE HIGHWAY 87 (COUNTRY CLUB DRIVE) IN MESA, NEA
R
THE NORTH EDGE OF A 10 BY 15-FOOT AREA OF OUTCROPPING BEDROCK AT T
HE
WEST END OF A HIGHWAY CUT THROUGH THE MOST WESTERLY OF 2 KNOLLS, 5
2.7
M (172.9 FT) WEST OF BENCH MARK 1262 AE, 12.8 M (42.0 FT) NORTH OF
THE CENTER OF THE WESTBOUND LANES OF THE HIGHWAY, 2.2 M (7.2 FT)
ABOVE THE LEVEL OF THE HIGHWAY, AND 1.9 M (6.2 FT) NORTH-NORTHEAST
OF
A WITNESS SIGN CEMENTED TO THE SOUTH FACE OF THE OUTCROP.

```
DESIGNATION -  KELL
PID         -  DU2246
STATE/COUNTY-  AZ/MARICOPA
USGS QUAD   -  BUCKHORN

HORZ DATUM  -  NAD 83 (1992)
VERT DATUM  -  NGVD 29

POSITION    -  33 26 44.76231(N)    111 38 58.87001(W)     ADJUSTE
D
92 minus 83        +00.00751             -00.00466        ADJUSTE
D
83 minus 27 -      +00.16885             +02.48987        NADCON

HEIGHT      -      496.7    (meters)    1630.     (feet)  GPS OBS
88 minus 29 -       +0.6                                  VERTCON
*****************************************************************
*****
LAPLACE CORR-        2.70                                 DEFLEC9
3
GEOID HEIGHT-      -29.30                                 GEOID93
ELLIP HEIGHT-      468.279
X           -  -1965580.848
Y           -  -4951939.948
Z           -   3495574.897

HORZ ORDER  -  FIRST
ELLP ORDER  -  FOURTH    CLASS 2
```

The horizontal coordinates were established by GPS observations and adjusted by the National Geodetic Survey in August 1993.

The orthometric height was determined by GPS observations.

The Laplace correction was computed from DEFLEC93 derived deflecti ons.

The geoid height was determined by GEOID93.

The ellipsoidal height was determined by GPS observations and reference to NAD83.

The X, Y, and Z were computed from the position and the ellipsoida l ht.

```
North          East       Scale          Converg.
SPC AZ C    -    271,217.825   238,181.524 0.99990759     +0 08 49
.7
```

MT
UTM 12 - 3,700,895.214 439,615.546 0.99964495 -0 21 29
.1
MT

STATION MARK IS A SURVEY DISK
WITH SETTING: SET IN TOP OF CONCRETE MONUMENT (ROUND)
STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
STABILITY: SURFACE MOTION
SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
SATELLITE: SATELLITE OBSERVATIONS - October 05, 1986

HISTORY	- Year Condition	Recov. By
HISTORY	- 1986 STATION MONUMENTED	AZ DEPT OF TRANSP

STATION DESCRIPTION

DESCRIBED BY ARIZONA DEPARTMENT OF TRANSPORTATION 1986 (HW)
THE STATION IS LOCATED ABOUT 9.7 KM (6.0 MI) WEST-NORTHWEST OF
APACHE JUNCTION, ARIZONA.

TO REACH THE STATION FROM THE INTERSECTION OF MCKELLIPS ROAD AND
ELLSWORTH ROAD, GO WEST ON MCKELLIPS ROAD FOR 0.6 KM (0.4 MI) TO A
GRADED ROAD ON THE LEFT, TURN LEFT AND GO SOUTHWEST FOR 0.97 KM
(0.6 MI) ON THE GRADED ROAD TO THE STATION ON THE LEFT.

THE STATION IS A STANDARD AGS DISK
STAMPED---KELL 1986---,
SET INTO THE TOP OF A ROUND CONCRETE MONUMENT
25 CM IN DIAMETER PROJECTING 13 CM ABOVE GROUND. LOCATED
1.25 METERS (4.1 FT) SOUTH-SOUTHEAST FROM A WITNESS POST AND SIGN,
12.8 METERS (42.0 FT) SOUTHEAST FROM THE OLD USERY PASS ROAD.
THE UNDERGROUND MARK IS A STANDARD AGS DISK
STAMPED---KELL 1986---,
SET INTO AN IRREGULAR MASS OF CONCRETE 0.8 METERS BELOW THE SURFAC
E.

```
DESIGNATION -  SGC 17
PID         -  DU1323
STATE/COUNTY-  AZ/MARICOPA
USGS QUAD   -  APACHE JUNCTION

HORZ DATUM  -  NAD 83 (1992)
VERT DATUM  -  NAVD 88

POSITION    -  33 23 09.74734(N)    111 34 55.96404(W)     ADJUSTE
D
92 minus 83        +00.00674             -00.00300        ADJUSTE
D
83 minus 27 -      +00.17682             +02.48088        NADCON

HEIGHT      -      478.138  (meters)    1568.69   (feet)  ADJUST
88 minus 29 -       +0.55                                 VERTCON
*************************************************************
*****
LAPLACE CORR-        2.67                                 DEFLEC9
3
GEOID HEIGHT-      -29.30                                 GEOID93
ELLIP HEIGHT-      448.601
X           -  -1961083.842
Y           -  -4957628.587
Z           -   3490034.337
MODELED GRAV-   979,417.6                                 NAVD88

HORZ ORDER  -  FIRST
VERT ORDER  -  FIRST     CLASS 2
ELLP ORDER  -  FOURTH    CLASS 2
```

The horizontal coordinates were established by GPS observations and adjusted by the National Geodetic Survey in August 1993.

The orthometric height was determined by differential leveling and adjusted by the National Geodetic Survey in June 1991.

The Laplace correction was computed from DEFLEC93 derived deflecti ons.

The geoid height was determined by GEOID93.

The ellipsoidal height was determined by GPS observations and reference to NAD83.

The X, Y, and Z were computed from the position and the ellipsoida l ht.

The modeled gravity was interpolated from observed gravity values.

	North	East	Scale	Converg.	
SPC AZ C	-	264,612.224	244,475.976	0.99991193	+0 11 02
.6					
MT					
UTM 12	-	3,694,236.203	445,849.874	0.99963615	-0 19 13
.4					
MT					

STATION MARK IS A BENCH MARK DISK
WITH SETTING: SET IN TOP OF CONCRETE MONUMENT (ROUND)
THE MARK IS STAMPED: SGC-17 1978
STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
STABILITY: SURFACE MOTION
SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
SATELLITE: SATELLITE OBSERVATIONS - March 23, 1984

HISTORY	- Year	Condition	Recov. By
HISTORY	- 1978	STATION MONUMENTED	BUR OF RECLAMATION
HISTORY	- 1981	GOOD	NATIONAL GEODETIC SURVEY

STATION DESCRIPTION

DESCRIBED BY NATIONAL GEODETIC SURVEY 1981
3.0 KILOMETERS (1.9 MILES) WEST ALONG U.S. HIGHWAY 60 FROM
THE JUNCTION OF STATE HIGHWAY 88 AT APACHE JUNCTIN, THENCE 3.2
KILOMETERS (2.0 MILES) SOUTH ALONG MERIDIAN ROAD, LOCATED AT THE
USGS EXTENSOMETER SITE, 97.8 METERS (321 FEET) WEST OF THE CENTERL
INE
OF MERIDIAN ROAD, 67.0 METERS (220 FEET) NORTH OF THE NORTH CORNER
OF
THE NORTHWEST ONE OF TWO 10 X 6 FEET GALVANIZED STEEL BUILDINGS
HOUSING USGS EQUIPMENT.
THE PIPE IS ABOVE GROUND LEVEL
THE STATION IS 0.6 METERS S FROM A WITNESS POST

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DESIGNATION -  Z 21
PID         -  DU0574
STATE/COUNTY-  AZ/PINAL
USGS QUAD   -  APACHE JUNCTION

HORZ DATUM  -  NAD 83
VERT DATUM  -  NAVD 88

POSITION    -  33 25 37.     (N)    111 32 07.     (W)     SCALED
83 minus 27 -       +00.                  +02.             NADCON

HEIGHT      -       546.254  (meters)    1792.17   (feet)  ADJUST
88 minus 29 -        +0.595                                 ADJ UNC
HK
*************************************************************
*****
GEOID HEIGHT-       -29.15                                  GEOID93
MODELED GRAV-   979,395.6                                   NAVD88

VERT ORDER  -  FIRST     CLASS 2
```

The horizontal coordinates were scaled from a topographic map and have
an estimated accuracy of +/- 6 seconds.

The orthometric height was determined by differential leveling and adjusted by the National Geodetic Survey in June 1991.

The geoid height was determined by GEOID93.

The modeled gravity was interpolated from observed gravity values.

STATION MARK IS A BENCH MARK DISK
WITH SETTING: SET IN TOP OF CONCRETE MONUMENT (ROUND)
THE MARK IS STAMPED: Z 21 1933
STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
STABILITY: SURFACE MOTION

HISTORY -	Year Condition	Recov. By
HISTORY -	1933 STATION MONUMENTED	COAST AND GEODETIC SURVEY
HISTORY -	1948 GOOD	NATIONAL GEODETIC SURVEY
HISTORY -	1980 GOOD	NATIONAL GEODETIC SURVEY

STATION DESCRIPTION

DESCRIBED BY NATIONAL GEODETIC SURVEY 1948
ABOUT 1.1 MILES NORTHEAST ALONG STATE HIGHWAY 88 FROM APACHE JUNCTION.

57.6 FEET NORTHWEST OF THE CENTER LINE OF THE HIGHWAY, 9.5 FEET
NORTHEAST OF A LARGE SIGN APACHE JUNCTION ONE MILE, 1.7 FEET SOUTH
WEST
OF A WHITE WOODEN WITNESS POST, ABOUT 3 FEET ABOVE THE LEVEL OF TH
E
HIGHWAY, SET IN THE TOP OF A CONCRETE POST PROJECTING 8 INCHES.

STATION RECOVERY (1980)

RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1980
1.8 KM (1.1 MI) NORTHEAST ALONG STATE HIGHWAY 88 FROM THE JUNCTION
OF U.S. HIGHWAY 60 AT APACHE JUNCTION, SET ON THE NORTHWEST RIGHT-
OF-WAY, 68.6 METERS (225 FT) SOUTHWEST OF HIGHWAY MILEPOST 197,
17.5 METERS (57.5 FT) NORTHWEST OF THE CENTERLINE OF THE HIGHWAY,
5.6 METERS (18.5 FT) NORTHWEST OF THE RIGHT-OF-WAY FENCE, 2.9 METE
RS
(9.5 FT) NORTHEAST OF THE NORTH LEG OF A SIGN READING -RESTAURANT
1 MILE-.
THE PIPE IS ABOVE GROUND LEVEL
THE STATION IS 0.3 METERS ABOVE THE HEIGHT OF THE HIGHWAY .
THE STATION IS 0.3 METERS SE FROM A WITNESS POST

```
DESIGNATION -  S 269
PID         -  DU0573
STATE/COUNTY-  AZ/PINAL
USGS QUAD   -  APACHE JUNCTION

HORZ DATUM  -  NAD 83
VERT DATUM  -  NAVD 88

POSITION    -  33 26 00.     (N)    111 31 33.     (W)     SCALED
83 minus 27 -       +00.                  +02.             NADCON

HEIGHT      -       557.486  (meters)    1829.02   (feet)  ADJUST
88 minus 29 -        +0.595                                 ADJ UNC
HK
*************************************************************
*****
GEOID HEIGHT-       -29.12                                  GEOID93
MODELED GRAV-   979,392.6                                   NAVD88

VERT ORDER  -  FIRST     CLASS 2
```

The horizontal coordinates were scaled from a topographic map and have
an estimated accuracy of +/- 6 seconds.

The orthometric height was determined by differential leveling and adjusted by the National Geodetic Survey in June 1991.

The geoid height was determined by GEOID93.

The modeled gravity was interpolated from observed gravity values.

STATION MARK IS A BENCH MARK DISK
WITH SETTING: SET IN TOP OF CONCRETE MONUMENT (ROUND)
THE MARK IS STAMPED: S 269 1948
STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
STABILITY: SURFACE MOTION

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HISTORY     - Year Condition            Recov. By
HISTORY     - 1948 STATION MONUMENTED   COAST AND GEODETIC SURVEY
HISTORY     - 1980 GOOD                 NATIONAL GEODETIC SURVEY
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STATION DESCRIPTION

DESCRIBED BY COAST AND GEODETIC SURVEY 1948
ABOUT 1.8 MILES NORTHEAST ALONG STATE HIGHWAY NO. 88 FROM APACHE JUNCTION, 69.0 FEET SOUTHEAST OF THE CENTER LINE OF THE HIGHWAY, 4
2.0

FEET NORTHWEST OF A LONE GIANT CACTUS, 1.6 FEET NORTHWEST OF A WHI
TE
WOODEN WITNESS POST, 2 FEET BELOW THE LEVEL OF THE HIGHWAY, SET IN
THE
TOP OF A CONCRETE POST PROJECTING 2 INCHES.

STATION RECOVERY (1980)

RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1980
2.9 KM (1.8 MI) NORTHEAST ALONG STATE HIGHWAY 88 FROM THE JUNCTION
OF
U.S. HIGHWAY 60 AT APACHE JUNCTION, 0.5 KM (0.3 MI) SOUTHWEST OF
HIGHWAY MILEPOST 198, AT THE EAST CORNER OF THE Y JUNCTION OF
FOOTHILL DRIVE, 21.0 METERS (69.0 FT) SOUTHEAST OF THE CENTERLINE
OF THE HIGHWAY, 6.7 METERS (22.0 FT) NORTH OF THE CENTELINE OF
FOOTHILL DRIVE, 0.9 METERS (3.0 FT) NORTHWEST OF A SIGN READING
-NOT A THROUGH ROAD-.
THE PIPE IS ABOVE GROUND LEVEL
THE STATION IS 0.6 METERS BELOW THE HEIGHT OF THE HIGHWAY .
THE STATION IS 0.3 METERS S FROM A WITNESS POST