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*-----SCHLUMBERGER-----*
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SCHLUMBERGER DIRECTIONAL SURVEY

SHELL OIL COMPANY

ISLETA # 2

ALBUQUERQUE FIELD

BERNANILLO COUNTY, NEW MEXICO

RUN NO. 3	5000 - 14466	8-FEB-80	3523
POB NO. 4	14516 - 16276	9-MAR-80	3557

SURVEY IS TIED-IN TO SPERRY SUR DATA AT 5000 FT.

TANGENTIAL METHOD

REFERENCE JOB 3557.

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:      *      *      * TRUE      * CO-ORDINATES      *      *
: DEPTH * DEVIATION * AZIMUTH * VERTICAL ***** COURSE *
: FEET  * DEGREES  * DEGREES * DEPTH  * + NORTH * + EAST * LENGTH *
:      *      *      * FEET    * - SOUTH * - WEST * FEET   *
*****
: 5000.0 * 1.8 * 183.0 * 4998.1 * -93.5 * -90.1 * 129.8 *
: 5010.0 * 1.6 * 293.0 * 5008.1 * -93.7 * -90.3 * 130.1 *
: 5020.0 * 1.4 * 226.0 * 5018.1 * -93.8 * -90.5 * 130.3 *
: 5030.0 * 1.8 * 224.0 * 5028.1 * -94.1 * -90.7 * 130.7 *
: 5040.0 * 2.1 * 222.0 * 5038.1 * -94.4 * -90.9 * 131.1 *
: 5050.0 * 1.8 * 222.5 * 5048.1 * -94.6 * -91.1 * 131.3 *
: 5060.0 * 1.6 * 223.0 * 5058.1 * -94.8 * -91.3 * 131.6 *
: 5070.0 * 1.6 * 221.5 * 5068.1 * -95.0 * -91.5 * 131.9 *
: 5080.0 * 1.6 * 220.0 * 5078.1 * -95.2 * -91.7 * 132.2 *
: 5090.0 * 1.5 * 222.5 * 5088.1 * -95.4 * -91.8 * 132.4 *
: 5100.0 * 1.3 * 225.0 * 5098.1 * -95.5 * -92.0 * 132.6 *
: 5110.0 * 1.4 * 220.5 * 5108.1 * -95.8 * -92.2 * 132.9 *
: 5120.0 * 1.5 * 216.0 * 5118.1 * -96.0 * -92.3 * 133.2 *
: 5130.0 * 1.5 * 216.5 * 5128.0 * -96.2 * -92.5 * 133.4 *
: 5140.0 * 1.5 * 217.0 * 5138.0 * -96.4 * -92.6 * 133.7 *
: 5150.0 * 1.5 * 219.5 * 5148.0 * -96.6 * -92.8 * 134.0 *
: 5160.0 * 1.6 * 222.0 * 5158.0 * -96.8 * -93.0 * 134.2 *
: 5170.0 * 1.5 * 222.5 * 5168.0 * -97.0 * -93.2 * 134.5 *
: 5180.0 * 1.4 * 223.0 * 5178.0 * -97.2 * -93.3 * 134.7 *
: 5190.0 * 1.4 * 222.5 * 5188.0 * -97.3 * -93.5 * 134.9 *
: 5200.0 * 1.3 * 222.0 * 5198.0 * -97.5 * -93.6 * 135.2 *
: 5210.0 * 1.4 * 222.0 * 5208.0 * -97.7 * -93.8 * 135.4 *
: 5220.0 * 1.4 * 222.0 * 5218.0 * -97.9 * -94.0 * 135.7 *
: 5230.0 * 1.4 * 221.0 * 5228.0 * -98.0 * -94.1 * 135.9 *
: 5240.0 * 1.3 * 220.0 * 5238.0 * -98.2 * -94.3 * 136.1 *
: 5250.0 * 1.4 * 220.5 * 5248.0 * -98.4 * -94.4 * 136.4 *
: 5260.0 * 1.4 * 221.0 * 5258.0 * -98.6 * -94.6 * 136.6 *
: 5270.0 * 1.4 * 221.0 * 5268.0 * -98.7 * -94.7 * 136.8 *
: 5280.0 * 1.3 * 221.0 * 5278.0 * -98.9 * -94.9 * 137.1 *
: 5290.0 * 1.4 * 220.0 * 5288.0 * -99.1 * -95.0 * 137.3 *
: 5300.0 * 1.4 * 219.0 * 5298.0 * -99.3 * -95.2 * 137.5 *
: 5310.0 * 1.4 * 219.5 * 5308.0 * -99.5 * -95.3 * 137.8 *
: 5320.0 * 1.4 * 220.0 * 5318.0 * -99.7 * -95.5 * 138.0 *
: 5330.0 * 1.4 * 218.5 * 5328.0 * -99.9 * -95.6 * 138.3 *
: 5340.0 * 1.4 * 217.0 * 5338.0 * -100.1 * -95.8 * 138.5 *
: 5350.0 * 1.4 * 216.5 * 5348.0 * -100.3 * -95.9 * 138.8 *
: 5360.0 * 1.4 * 216.0 * 5358.0 * -100.5 * -96.1 * 139.0 *
: 5370.0 * 1.4 * 214.0 * 5368.0 * -100.7 * -96.2 * 139.2 *
: 5380.0 * 1.4 * 212.0 * 5378.0 * -100.9 * -96.3 * 139.5 *
: 5390.0 * 1.4 * 212.0 * 5388.0 * -101.1 * -96.5 * 139.7 *
: 5400.0 * 1.4 * 212.0 * 5398.0 * -101.3 * -96.6 * 140.0 *
: 5410.0 * 1.4 * 212.5 * 5408.0 * -101.5 * -96.7 * 140.2 *
: 5420.0 * 1.3 * 213.0 * 5418.0 * -101.7 * -96.8 * 140.4 *
: 5430.0 * 1.3 * 210.5 * 5428.0 * -101.8 * -96.9 * 140.6 *
: 5440.0 * 1.2 * 208.0 * 5438.0 * -102.0 * -97.0 * 140.8 *
: 5450.0 * 1.2 * 209.0 * 5448.0 * -102.2 * -97.1 * 141.0 *
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REF 3557.

PAGE 2

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*****
*          *          *          *          *          *          *          *
* DEPTH * DEVIATION * AZIMUTH * TRUE * CO-ORDINATES *          *
* FEET * DEGREES * DEGREES * VERTICAL * + NORTH * + EAST * COURSE *
*          *          *          * DEPTH * - SOUTH * - WEST * LENGTH *
*          *          *          * FEET *          *          * FEET *
*****
5460.0 * 1.2 * 210.0 * 5458.0 * -102.4 * -97.2 * 141.2 *
5470.0 * 1.2 * 210.5 * 5468.0 * -102.6 * -97.4 * 141.4 *
5480.0 * 1.2 * 211.0 * 5478.0 * -102.8 * -97.5 * 141.6 *
5490.0 * 1.2 * 210.5 * 5487.9 * -102.9 * -97.6 * 141.8 *
5500.0 * 1.2 * 210.0 * 5497.9 * -103.1 * -97.7 * 142.0 *
5510.0 * 1.2 * 209.5 * 5507.9 * -103.3 * -97.8 * 142.2 *
5520.0 * 1.1 * 209.0 * 5517.9 * -103.5 * -97.9 * 142.4 *
5530.0 * 1.2 * 209.0 * 5527.9 * -103.6 * -98.0 * 142.6 *
5540.0 * 1.2 * 209.0 * 5537.9 * -103.8 * -98.1 * 142.8 *
5550.0 * 1.2 * 210.5 * 5547.9 * -104.0 * -98.2 * 143.0 *
5560.0 * 1.2 * 212.0 * 5557.9 * -104.2 * -98.3 * 143.2 *
5570.0 * 1.2 * 211.5 * 5567.9 * -104.4 * -98.4 * 143.4 *
5580.0 * 1.2 * 211.0 * 5577.9 * -104.5 * -98.5 * 143.6 *
5590.0 * 1.2 * 211.0 * 5587.9 * -104.7 * -98.6 * 143.8 *
5600.0 * 1.2 * 211.0 * 5597.9 * -104.9 * -98.7 * 144.0 *
5610.0 * 1.2 * 214.0 * 5607.9 * -105.1 * -98.8 * 144.2 *
5620.0 * 1.2 * 217.0 * 5617.9 * -105.2 * -99.0 * 144.5 *
5630.0 * 1.2 * 215.5 * 5627.9 * -105.4 * -99.1 * 144.7 *
5640.0 * 1.2 * 214.0 * 5637.9 * -105.6 * -99.2 * 144.9 *
5650.0 * 1.3 * 215.0 * 5647.9 * -105.8 * -99.3 * 145.1 *
5660.0 * 1.3 * 216.0 * 5657.9 * -105.9 * -99.5 * 145.3 *
5670.0 * 1.3 * 218.5 * 5667.9 * -106.1 * -99.6 * 145.5 *
5680.0 * 1.2 * 221.0 * 5677.9 * -106.3 * -99.7 * 145.7 *
5690.0 * 1.2 * 221.0 * 5687.9 * -106.4 * -99.9 * 145.9 *
5700.0 * 1.2 * 221.0 * 5697.9 * -106.6 * -100.0 * 146.2 *
5710.0 * 1.3 * 220.0 * 5707.9 * -106.8 * -100.2 * 146.4 *
5720.0 * 1.3 * 219.0 * 5717.9 * -106.9 * -100.3 * 146.6 *
5730.0 * 1.4 * 221.5 * 5727.9 * -107.1 * -100.5 * 146.9 *
5740.0 * 1.4 * 224.0 * 5737.9 * -107.3 * -100.6 * 147.1 *
5750.0 * 1.4 * 223.0 * 5747.9 * -107.4 * -100.8 * 147.3 *
5760.0 * 1.3 * 222.0 * 5757.9 * -107.6 * -100.9 * 147.6 *
5770.0 * 1.4 * 220.5 * 5767.9 * -107.8 * -101.1 * 147.8 *
5780.0 * 1.5 * 219.0 * 5777.9 * -108.0 * -101.3 * 148.1 *
5790.0 * 1.5 * 221.5 * 5787.9 * -108.2 * -101.5 * 148.4 *
5800.0 * 1.6 * 224.0 * 5797.9 * -108.4 * -101.7 * 148.6 *
5810.0 * 1.5 * 225.0 * 5807.9 * -108.6 * -101.9 * 148.9 *
5820.0 * 1.5 * 226.0 * 5817.9 * -108.8 * -102.0 * 149.2 *
5830.0 * 1.5 * 223.0 * 5827.9 * -109.0 * -102.2 * 149.4 *
5840.0 * 1.6 * 220.0 * 5837.9 * -109.2 * -102.4 * 149.7 *
5850.0 * 1.5 * 221.0 * 5847.9 * -109.4 * -102.6 * 150.0 *
5860.0 * 1.4 * 222.0 * 5857.9 * -109.6 * -102.7 * 150.2 *
5870.0 * 1.5 * 218.5 * 5867.8 * -109.8 * -102.9 * 150.5 *
5880.0 * 1.5 * 215.0 * 5877.8 * -110.0 * -103.0 * 150.7 *
5890.0 * 1.5 * 217.0 * 5887.8 * -110.2 * -103.2 * 151.0 *
5900.0 * 1.6 * 219.0 * 5897.8 * -110.4 * -103.4 * 151.3 *
5910.0 * 1.5 * 219.5 * 5907.8 * -110.6 * -103.5 * 151.5 *
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*          *          * TRUE          * CO-ORDINATES          *
DEPTH * DEVIATION * AZIMUTH * VERTICAL * ***** COURSE *
FEET * DEGREES * DEGREES * DEPTH * * + NORTH * + EAST * LENGTH *
*          *          * FEET * * - SOUTH * - WEST * FEET *
*****
5920.0 * 1.4 * 220.0 * 5917.8 * -110.8 * -103.7 * 151.8 *
5930.0 * 1.5 * 221.0 * 5927.8 * -111.0 * -103.9 * 152.0 *
5940.0 * 1.5 * 222.0 * 5937.8 * -111.2 * -104.0 * 152.3 *
5950.0 * 1.5 * 222.0 * 5947.8 * -111.4 * -104.2 * 152.5 *
5960.0 * 1.5 * 222.0 * 5957.8 * -111.6 * -104.4 * 152.8 *
5970.0 * 1.5 * 220.5 * 5967.8 * -111.8 * -104.6 * 153.1 *
5980.0 * 1.5 * 219.0 * 5977.8 * -112.0 * -104.7 * 153.3 *
5990.0 * 1.5 * 220.0 * 5987.8 * -112.2 * -104.9 * 153.6 *
6000.0 * 1.5 * 221.0 * 5997.8 * -112.4 * -105.1 * 153.9 *
6010.0 * 1.5 * 220.5 * 6007.8 * -112.6 * -105.2 * 154.1 *
6020.0 * 1.6 * 220.0 * 6017.8 * -112.8 * -105.4 * 154.4 *
6030.0 * 1.5 * 220.5 * 6027.8 * -113.0 * -105.6 * 154.7 *
6040.0 * 1.5 * 221.0 * 6037.8 * -113.2 * -105.8 * 154.9 *
6050.0 * 1.5 * 221.5 * 6047.8 * -113.4 * -106.0 * 155.2 *
6060.0 * 1.6 * 222.0 * 6057.8 * -113.6 * -106.1 * 155.5 *
6070.0 * 1.5 * 221.0 * 6067.8 * -113.8 * -106.3 * 155.8 *
6080.0 * 1.5 * 220.0 * 6077.8 * -114.0 * -106.5 * 156.0 *
6090.0 * 1.5 * 216.5 * 6087.8 * -114.3 * -106.6 * 156.3 *
6100.0 * 1.5 * 213.0 * 6097.8 * -114.5 * -106.8 * 156.5 *
6110.0 * 1.5 * 213.0 * 6107.8 * -114.7 * -106.9 * 156.8 *
6120.0 * 1.5 * 213.0 * 6117.8 * -114.9 * -107.0 * 157.0 *
6130.0 * 1.5 * 214.0 * 6127.8 * -115.1 * -107.2 * 157.3 *
6140.0 * 1.6 * 215.0 * 6137.8 * -115.4 * -107.4 * 157.6 *
6150.0 * 1.6 * 215.0 * 6147.7 * -115.6 * -107.5 * 157.9 *
6160.0 * 1.6 * 215.0 * 6157.7 * -115.8 * -107.7 * 158.2 *
6170.0 * 1.6 * 217.0 * 6167.7 * -116.0 * -107.9 * 158.4 *
6180.0 * 1.6 * 219.0 * 6177.7 * -116.3 * -108.0 * 158.7 *
6190.0 * 1.5 * 218.5 * 6187.7 * -116.5 * -108.2 * 159.0 *
6200.0 * 1.5 * 218.0 * 6197.7 * -116.7 * -108.4 * 159.2 *
6210.0 * 1.5 * 217.5 * 6207.7 * -116.9 * -108.5 * 159.5 *
6220.0 * 1.4 * 217.0 * 6217.7 * -117.1 * -108.7 * 159.7 *
6230.0 * 1.5 * 217.5 * 6227.7 * -117.3 * -108.8 * 160.0 *
6240.0 * 1.5 * 218.0 * 6237.7 * -117.5 * -109.0 * 160.2 *
6250.0 * 1.5 * 217.5 * 6247.7 * -117.7 * -109.1 * 160.5 *
6260.0 * 1.6 * 217.0 * 6257.7 * -117.9 * -109.3 * 160.8 *
6270.0 * 1.7 * 219.0 * 6267.7 * -118.1 * -109.5 * 161.1 *
6280.0 * 1.7 * 221.0 * 6277.7 * -118.4 * -109.7 * 161.4 *
6290.0 * 1.6 * 221.0 * 6287.7 * -118.6 * -109.9 * 161.7 *
6300.0 * 1.5 * 221.0 * 6297.7 * -118.8 * -110.0 * 161.9 *
6310.0 * 1.5 * 219.5 * 6307.7 * -119.0 * -110.2 * 162.2 *
6320.0 * 1.6 * 218.0 * 6317.7 * -119.2 * -110.4 * 162.5 *
6330.0 * 1.6 * 220.0 * 6327.7 * -119.4 * -110.6 * 162.7 *
6340.0 * 1.6 * 222.0 * 6337.7 * -119.6 * -110.8 * 163.0 *
6350.0 * 1.6 * 221.0 * 6347.7 * -119.8 * -110.9 * 163.3 *
6360.0 * 1.6 * 220.0 * 6357.7 * -120.0 * -111.1 * 163.6 *
6370.0 * 1.7 * 218.5 * 6367.7 * -120.3 * -111.3 * 163.9 *
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EF 3557.

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*           *           * TRUE          * CO-ORDINATES *           *
DEPTH * DEVIATION * AZIMUTH * VERTICAL * ***** COURSE *
FEET * DEGREES * DEGREES * DEPTH * * + NORTH * + EAST * LENGTH *
* * * * * * * * * * * * * * * * * * * * * * * * * * * * *
* * * * * * * * * * * * * * * * * * * * * * * * * * * * *
6380.0 * 1.7 * 217.0 * 6377.7 * -120.5 * -111.5 * 164.2 *
6390.0 * 1.7 * 217.5 * 6387.7 * -120.7 * -111.7 * 164.5 *
6400.0 * 1.6 * 218.0 * 6397.7 * -121.0 * -111.8 * 164.7 *
6410.0 * 1.6 * 217.0 * 6407.6 * -121.2 * -112.0 * 165.0 *
6420.0 * 1.6 * 216.0 * 6417.6 * -121.4 * -112.2 * 165.3 *
6430.0 * 1.7 * 215.0 * 6427.6 * -121.7 * -112.3 * 165.6 *
6440.0 * 1.7 * 214.0 * 6437.6 * -121.9 * -112.5 * 165.9 *
6450.0 * 1.7 * 214.5 * 6447.6 * -122.1 * -112.7 * 166.2 *
6460.0 * 1.7 * 215.0 * 6457.6 * -122.4 * -112.8 * 166.5 *
6470.0 * 1.8 * 214.0 * 6467.6 * -122.7 * -113.0 * 166.8 *
6480.0 * 1.8 * 213.0 * 6477.6 * -122.9 * -113.2 * 167.1 *
6490.0 * 1.8 * 211.5 * 6487.6 * -123.2 * -113.3 * 167.4 *
6500.0 * 1.7 * 210.0 * 6497.6 * -123.4 * -113.5 * 167.7 *
6510.0 * 1.7 * 212.5 * 6507.6 * -123.7 * -113.6 * 168.0 *
6520.0 * 1.7 * 215.0 * 6517.6 * -123.9 * -113.8 * 168.2 *
6530.0 * 1.7 * 213.5 * 6527.6 * -124.2 * -114.0 * 168.5 *
6540.0 * 1.7 * 212.0 * 6537.6 * -124.4 * -114.1 * 168.8 *
6550.0 * 1.7 * 211.0 * 6547.6 * -124.7 * -114.3 * 169.1 *
6560.0 * 1.6 * 210.0 * 6557.6 * -124.9 * -114.4 * 169.4 *
6570.0 * 1.6 * 208.0 * 6567.6 * -125.2 * -114.5 * 169.6 *
6580.0 * 1.6 * 206.0 * 6577.6 * -125.4 * -114.6 * 169.9 *
6590.0 * 1.6 * 205.0 * 6587.6 * -125.7 * -114.8 * 170.2 *
6600.0 * 1.6 * 204.0 * 6597.6 * -125.9 * -114.9 * 170.4 *
6610.0 * 1.6 * 204.5 * 6607.6 * -126.2 * -115.0 * 170.7 *
6620.0 * 1.6 * 205.0 * 6617.6 * -126.4 * -115.1 * 171.0 *
6630.0 * 1.6 * 205.5 * 6627.6 * -126.7 * -115.2 * 171.2 *
6640.0 * 1.6 * 206.0 * 6637.6 * -126.9 * -115.4 * 171.5 *
6650.0 * 1.7 * 206.5 * 6647.5 * -127.2 * -115.5 * 171.8 *
6660.0 * 1.7 * 207.0 * 6657.5 * -127.5 * -115.6 * 172.1 *
6670.0 * 1.7 * 208.0 * 6667.5 * -127.7 * -115.8 * 172.4 *
6680.0 * 1.7 * 209.0 * 6677.5 * -128.0 * -115.9 * 172.7 *
6690.0 * 1.8 * 209.0 * 6687.5 * -128.2 * -116.1 * 173.0 *
6700.0 * 1.8 * 209.0 * 6697.5 * -128.5 * -116.2 * 173.3 *
6710.0 * 1.8 * 210.5 * 6707.5 * -128.8 * -116.4 * 173.6 *
6720.0 * 1.8 * 212.0 * 6717.5 * -129.1 * -116.5 * 173.9 *
6730.0 * 1.8 * 212.0 * 6727.5 * -129.3 * -116.7 * 174.2 *
6740.0 * 1.7 * 212.0 * 6737.5 * -129.6 * -116.9 * 174.5 *
6750.0 * 1.8 * 210.5 * 6747.5 * -129.8 * -117.0 * 174.8 *
6760.0 * 1.8 * 209.0 * 6757.5 * -130.1 * -117.2 * 175.1 *
6770.0 * 1.8 * 210.5 * 6767.5 * -130.4 * -117.3 * 175.4 *
6780.0 * 1.8 * 212.0 * 6777.5 * -130.6 * -117.5 * 175.7 *
6790.0 * 1.9 * 212.5 * 6787.5 * -130.9 * -117.7 * 176.0 *
6800.0 * 1.9 * 213.0 * 6797.5 * -131.2 * -117.9 * 176.4 *
6810.0 * 1.9 * 213.5 * 6807.5 * -131.5 * -118.0 * 176.7 *
6820.0 * 1.9 * 214.0 * 6817.5 * -131.7 * -118.2 * 177.0 *
6830.0 * 1.9 * 216.0 * 6827.5 * -132.0 * -118.4 * 177.3 *
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*          *          * TRUE          * CO-ORDINATES          *
DEPTH * DEVIATION * AZIMUTH * VERTICAL *          * COURSE *
FEET * DEGREES * DEGREES * DEPTH * + NORTH * + EAST * LENGTH *
*          *          * FEET * - SOUTH * - WEST * FEET *
*****
6840.0 * 1.8 * 218.0 * 6837.5 * -132.2 * -118.6 * 177.6 *
6850.0 * 1.8 * 216.5 * 6847.5 * -132.5 * -118.8 * 178.0 *
6860.0 * 1.8 * 215.0 * 6857.4 * -132.8 * -119.0 * 178.3 *
6870.0 * 1.9 * 216.0 * 6867.4 * -133.0 * -119.2 * 178.6 *
6880.0 * 1.9 * 217.0 * 6877.4 * -133.3 * -119.4 * 178.9 *
6890.0 * 1.9 * 215.0 * 6887.4 * -133.6 * -119.6 * 179.3 *
6900.0 * 1.9 * 213.0 * 6897.4 * -133.8 * -119.7 * 179.6 *
6910.0 * 1.9 * 212.5 * 6907.4 * -134.1 * -119.9 * 179.9 *
6920.0 * 1.9 * 212.0 * 6917.4 * -134.4 * -120.1 * 180.2 *
6930.0 * 1.9 * 211.5 * 6927.4 * -134.7 * -120.3 * 180.6 *
6940.0 * 1.9 * 211.0 * 6937.4 * -135.0 * -120.4 * 180.9 *
6950.0 * 1.9 * 211.0 * 6947.4 * -135.3 * -120.6 * 181.2 *
6960.0 * 1.9 * 211.0 * 6957.4 * -135.5 * -120.8 * 181.5 *
6970.0 * 1.9 * 211.5 * 6967.4 * -135.8 * -120.9 * 181.9 *
6980.0 * 1.8 * 212.0 * 6977.4 * -136.1 * -121.1 * 182.2 *
6990.0 * 1.9 * 212.0 * 6987.4 * -136.4 * -121.3 * 182.5 *
7000.0 * 2.0 * 212.0 * 6997.4 * -136.7 * -121.5 * 182.8 *
7010.0 * 2.0 * 212.5 * 7007.4 * -136.9 * -121.7 * 183.2 *
7020.0 * 1.9 * 213.0 * 7017.4 * -137.2 * -121.8 * 183.5 *
7030.0 * 2.0 * 214.0 * 7027.4 * -137.5 * -122.0 * 183.9 *
7040.0 * 2.0 * 215.0 * 7037.3 * -137.8 * -122.2 * 184.2 *
7050.0 * 2.0 * 214.0 * 7047.3 * -138.1 * -122.4 * 184.5 *
7060.0 * 2.0 * 213.0 * 7057.3 * -138.4 * -122.6 * 184.9 *
7070.0 * 2.0 * 215.0 * 7067.3 * -138.7 * -122.8 * 185.2 *
7080.0 * 2.0 * 217.0 * 7077.3 * -138.9 * -123.0 * 185.6 *
7090.0 * 2.0 * 214.0 * 7087.3 * -139.2 * -123.2 * 185.9 *
7100.0 * 2.0 * 211.0 * 7097.3 * -139.5 * -123.4 * 186.3 *
7110.0 * 2.0 * 211.0 * 7107.3 * -139.8 * -123.6 * 186.6 *
7120.0 * 1.9 * 211.0 * 7117.3 * -140.1 * -123.7 * 186.9 *
7130.0 * 1.9 * 210.0 * 7127.3 * -140.4 * -123.9 * 187.2 *
7140.0 * 1.9 * 209.0 * 7137.3 * -140.7 * -124.1 * 187.6 *
7150.0 * 1.9 * 210.0 * 7147.3 * -141.0 * -124.2 * 187.9 *
7160.0 * 1.9 * 211.0 * 7157.3 * -141.3 * -124.4 * 188.2 *
7170.0 * 1.9 * 212.5 * 7167.3 * -141.5 * -124.6 * 188.6 *
7180.0 * 1.9 * 214.0 * 7177.3 * -141.8 * -124.8 * 188.9 *
7190.0 * 1.9 * 213.5 * 7187.3 * -142.1 * -125.0 * 189.2 *
7200.0 * 1.9 * 213.0 * 7197.3 * -142.4 * -125.1 * 189.5 *
7210.0 * 1.9 * 213.5 * 7207.2 * -142.6 * -125.3 * 189.9 *
7220.0 * 1.9 * 214.0 * 7217.2 * -142.9 * -125.5 * 190.2 *
7230.0 * 1.9 * 214.0 * 7227.2 * -143.2 * -125.7 * 190.5 *
7240.0 * 1.9 * 214.0 * 7237.2 * -143.5 * -125.9 * 190.9 *
7250.0 * 2.0 * 213.0 * 7247.2 * -143.8 * -126.1 * 191.2 *
7260.0 * 2.0 * 212.0 * 7257.2 * -144.0 * -126.2 * 191.5 *
7270.0 * 2.0 * 215.5 * 7267.2 * -144.3 * -126.5 * 191.9 *
7280.0 * 1.9 * 219.0 * 7277.2 * -144.6 * -126.7 * 192.2 *
7290.0 * 2.0 * 217.0 * 7287.2 * -144.9 * -126.9 * 192.5 *
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*          *          * TRUE          * CO-ORDINATES          *
DEPTH * DEVIATION * AZIMUTH * VERTICAL * ***** COURSE *
FEET * DEGREES * DEGREES * DEPTH * * + NORTH * + EAST * LENGTH *
* * * * * * FEET * * - SOUTH * - WEST * FEET *
*****
7300.0 * 2.0 * 215.0 * 7297.2 * -145.1 * -127.1 * 192.9 *
7310.0 * 2.0 * 214.5 * 7307.2 * -145.4 * -127.3 * 193.2 *
7320.0 * 2.0 * 214.0 * 7317.2 * -145.7 * -127.5 * 193.6 *
7330.0 * 2.1 * 214.5 * 7327.2 * -146.0 * -127.7 * 194.0 *
7340.0 * 2.1 * 215.0 * 7337.2 * -146.3 * -127.9 * 194.3 *
7350.0 * 2.1 * 215.5 * 7347.2 * -146.6 * -128.1 * 194.7 *
7360.0 * 2.0 * 216.0 * 7357.2 * -146.9 * -128.3 * 195.0 *
7370.0 * 2.0 * 217.5 * 7367.2 * -147.2 * -128.5 * 195.4 *
7380.0 * 2.0 * 219.0 * 7377.1 * -147.4 * -128.7 * 195.7 *
7390.0 * 2.1 * 220.0 * 7387.1 * -147.7 * -129.0 * 196.1 *
7400.0 * 2.1 * 221.0 * 7397.1 * -148.0 * -129.2 * 196.4 *
7410.0 * 2.1 * 219.5 * 7407.1 * -148.3 * -129.4 * 196.8 *
7420.0 * 2.0 * 218.0 * 7417.1 * -148.5 * -129.6 * 197.1 *
7430.0 * 2.1 * 218.0 * 7427.1 * -148.8 * -129.9 * 197.5 *
7440.0 * 2.1 * 218.0 * 7437.1 * -149.1 * -130.1 * 197.9 *
7450.0 * 2.2 * 217.5 * 7447.1 * -149.4 * -130.3 * 198.3 *
7460.0 * 2.2 * 217.0 * 7457.1 * -149.7 * -130.5 * 198.6 *
7470.0 * 2.2 * 218.0 * 7467.1 * -150.0 * -130.8 * 199.0 *
7480.0 * 2.2 * 219.0 * 7477.1 * -150.3 * -131.0 * 199.4 *
7490.0 * 2.2 * 218.0 * 7487.1 * -150.6 * -131.2 * 199.8 *
7500.0 * 2.1 * 217.0 * 7497.1 * -150.9 * -131.5 * 200.1 *
7510.0 * 2.1 * 217.0 * 7507.1 * -151.2 * -131.7 * 200.5 *
7520.0 * 2.1 * 217.0 * 7517.1 * -151.5 * -131.9 * 200.9 *
7530.0 * 2.1 * 217.5 * 7527.0 * -151.8 * -132.1 * 201.2 *
7540.0 * 2.1 * 218.0 * 7537.0 * -152.1 * -132.4 * 201.6 *
7550.0 * 2.1 * 219.5 * 7547.0 * -152.3 * -132.6 * 202.0 *
7560.0 * 2.1 * 221.0 * 7557.0 * -152.6 * -132.8 * 202.3 *
7570.0 * 2.2 * 223.0 * 7567.0 * -152.9 * -133.1 * 202.7 *
7580.0 * 2.3 * 225.0 * 7577.0 * -153.2 * -133.4 * 203.1 *
7590.0 * 2.3 * 223.0 * 7587.0 * -153.5 * -133.7 * 203.5 *
7600.0 * 2.3 * 221.0 * 7597.0 * -153.8 * -133.9 * 203.9 *
7610.0 * 2.3 * 221.5 * 7607.0 * -154.1 * -134.2 * 204.3 *
7620.0 * 2.2 * 222.0 * 7617.0 * -154.4 * -134.4 * 204.7 *
7630.0 * 2.3 * 222.5 * 7627.0 * -154.7 * -134.7 * 205.1 *
7640.0 * 2.3 * 223.0 * 7637.0 * -154.9 * -135.0 * 205.5 *
7650.0 * 2.3 * 224.0 * 7647.0 * -155.2 * -135.3 * 205.9 *
7660.0 * 2.3 * 225.0 * 7656.9 * -155.5 * -135.6 * 206.3 *
7670.0 * 2.4 * 225.0 * 7666.9 * -155.8 * -135.9 * 206.7 *
7680.0 * 2.5 * 225.0 * 7676.9 * -156.1 * -136.2 * 207.2 *
7690.0 * 2.5 * 225.0 * 7686.9 * -156.4 * -136.5 * 207.6 *
7700.0 * 2.4 * 225.0 * 7696.9 * -156.7 * -136.8 * 208.0 *
7710.0 * 2.4 * 224.5 * 7706.9 * -157.0 * -137.1 * 208.4 *
7720.0 * 2.4 * 224.0 * 7716.9 * -157.3 * -137.4 * 208.8 *
7730.0 * 2.5 * 226.0 * 7726.9 * -157.6 * -137.7 * 209.3 *
7740.0 * 2.5 * 228.0 * 7736.9 * -157.9 * -138.0 * 209.7 *
7750.0 * 2.6 * 227.5 * 7746.9 * -158.2 * -138.3 * 210.2 *
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HF 3557.

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*      *      *      *      *      *      *      *      *      *
* DEPTH * DEVIATION * AZIMUTH * TRUE * CO-ORDINATES *      *
* FEET  * DEGREES  * DEGREES * VERTICAL *          * COURSE *
*      *          *          * DEPTH  * + NORTH * + EAST * LENGTH *
*      *          *          * FEET   * - SOUTH * - WEST * FEET   *
*****
7760.0 * 2.6 * 227.0 * 7756.9 * -158.5 * -138.7 * 210.6 *
7770.0 * 2.6 * 226.5 * 7766.8 * -158.8 * -139.0 * 211.1 *
7780.0 * 2.5 * 226.0 * 7776.8 * -159.1 * -139.3 * 211.5 *
7790.0 * 2.5 * 225.5 * 7786.8 * -159.4 * -139.6 * 211.9 *
7800.0 * 2.5 * 225.0 * 7796.8 * -159.7 * -139.9 * 212.4 *
7810.0 * 2.5 * 225.0 * 7806.8 * -160.1 * -140.2 * 212.8 *
7820.0 * 2.5 * 225.0 * 7816.8 * -160.4 * -140.5 * 213.2 *
7830.0 * 2.5 * 225.5 * 7826.8 * -160.7 * -140.8 * 213.6 *
7840.0 * 2.4 * 226.0 * 7836.8 * -160.9 * -141.1 * 214.1 *
7850.0 * 2.5 * 226.5 * 7846.8 * -161.2 * -141.4 * 214.5 *
7860.0 * 2.5 * 227.0 * 7856.8 * -161.5 * -141.8 * 214.9 *
7870.0 * 2.6 * 227.5 * 7866.7 * -161.8 * -142.1 * 215.4 *
7880.0 * 2.6 * 228.0 * 7876.7 * -162.2 * -142.4 * 215.8 *
7890.0 * 2.6 * 228.0 * 7886.7 * -162.5 * -142.8 * 216.3 *
7900.0 * 2.6 * 228.0 * 7896.7 * -162.8 * -143.1 * 216.7 *
7910.0 * 2.7 * 229.0 * 7906.7 * -163.1 * -143.5 * 217.2 *
7920.0 * 2.7 * 230.0 * 7916.7 * -163.4 * -143.8 * 217.7 *
7930.0 * 2.7 * 230.5 * 7926.7 * -163.7 * -144.2 * 218.1 *
7940.0 * 2.7 * 231.0 * 7936.7 * -164.0 * -144.6 * 218.6 *
7950.0 * 2.8 * 230.0 * 7946.7 * -164.3 * -144.9 * 219.1 *
7960.0 * 2.8 * 229.0 * 7956.6 * -164.6 * -145.3 * 219.6 *
7970.0 * 2.8 * 230.0 * 7966.6 * -164.9 * -145.7 * 220.0 *
7980.0 * 2.8 * 231.0 * 7976.6 * -165.2 * -146.1 * 220.5 *
7990.0 * 2.9 * 231.5 * 7986.6 * -165.5 * -146.5 * 221.0 *
8000.0 * 2.9 * 232.0 * 7996.6 * -165.8 * -146.9 * 221.5 *
8010.0 * 2.9 * 232.5 * 8006.6 * -166.1 * -147.3 * 222.0 *
8020.0 * 2.9 * 233.0 * 8016.6 * -166.4 * -147.7 * 222.5 *
8030.0 * 3.0 * 232.0 * 8026.6 * -166.8 * -148.1 * 223.0 *
8040.0 * 3.0 * 231.0 * 8036.5 * -167.1 * -148.5 * 223.5 *
8050.0 * 3.0 * 231.5 * 8046.5 * -167.4 * -148.9 * 224.1 *
8060.0 * 3.0 * 232.0 * 8056.5 * -167.7 * -149.3 * 224.6 *
8070.0 * 3.1 * 233.0 * 8066.5 * -168.1 * -149.7 * 225.1 *
8080.0 * 3.1 * 234.0 * 8076.5 * -168.4 * -150.2 * 225.6 *
8090.0 * 3.1 * 234.5 * 8086.5 * -168.7 * -150.6 * 226.2 *
8100.0 * 3.1 * 235.0 * 8096.5 * -169.0 * -151.1 * 226.7 *
8110.0 * 3.2 * 233.0 * 8106.4 * -169.4 * -151.5 * 227.2 *
8120.0 * 3.2 * 231.0 * 8116.4 * -169.7 * -151.9 * 227.8 *
8130.0 * 3.2 * 232.0 * 8126.4 * -170.0 * -152.4 * 228.3 *
8140.0 * 3.2 * 233.0 * 8136.4 * -170.4 * -152.8 * 228.9 *
8150.0 * 3.3 * 230.5 * 8146.4 * -170.8 * -153.3 * 229.5 *
8160.0 * 3.3 * 228.0 * 8156.4 * -171.1 * -153.7 * 230.0 *
8170.0 * 3.3 * 230.5 * 8166.3 * -171.5 * -154.1 * 230.6 *
8180.0 * 3.3 * 233.0 * 8176.3 * -171.8 * -154.6 * 231.2 *
8190.0 * 3.4 * 234.0 * 8186.3 * -172.2 * -155.1 * 231.7 *
8200.0 * 3.4 * 235.0 * 8196.3 * -172.5 * -155.6 * 232.3 *
8210.0 * 3.4 * 235.0 * 8206.3 * -172.9 * -156.1 * 232.9 *
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*          *          *          *          *          *          *          *
* DEPTH    * DEVIATION * AZIMUTH * TRUE      * CO-ORDINATES *          *
* FEET     * DEGREES  * DEGREES * VERTICAL *          * COURSE    *
*          *          *          * DEPTH   *          * LENGTH   *
*          *          *          * FEET    *          * FEET     *
*****
8220.0 * 3.4 * 235.0 * 8216.3 * -173.2 * -156.6 * 233.5 *
8230.0 * 3.5 * 236.0 * 8226.2 * -173.5 * -157.1 * 234.1 *
8240.0 * 3.5 * 237.0 * 8236.2 * -173.9 * -157.6 * 234.6 *
8250.0 * 3.5 * 235.5 * 8246.2 * -174.2 * -158.1 * 235.2 *
8260.0 * 3.5 * 234.0 * 8256.2 * -174.6 * -158.6 * 235.8 *
8270.0 * 3.4 * 235.5 * 8266.2 * -174.9 * -159.0 * 236.4 *
8280.0 * 3.3 * 237.0 * 8276.2 * -175.2 * -159.5 * 237.0 *
8290.0 * 3.4 * 237.5 * 8286.1 * -175.5 * -160.0 * 237.5 *
8300.0 * 3.5 * 238.0 * 8296.1 * -175.9 * -160.6 * 238.1 *
8310.0 * 3.3 * 236.5 * 8306.1 * -176.2 * -161.0 * 238.7 *
8320.0 * 3.2 * 235.0 * 8316.1 * -176.5 * -161.5 * 239.2 *
8330.0 * 3.3 * 235.0 * 8326.1 * -176.8 * -162.0 * 239.8 *
8340.0 * 3.4 * 235.0 * 8336.0 * -177.2 * -162.4 * 240.4 *
8350.0 * 3.6 * 238.0 * 8346.0 * -177.5 * -163.0 * 241.0 *
8360.0 * 3.7 * 241.0 * 8356.0 * -177.8 * -163.6 * 241.6 *
8370.0 * 3.6 * 239.5 * 8366.0 * -178.1 * -164.1 * 242.2 *
8380.0 * 3.5 * 238.0 * 8376.0 * -178.5 * -164.6 * 242.8 *
8390.0 * 3.6 * 238.0 * 8385.9 * -178.8 * -165.1 * 243.4 *
8400.0 * 3.6 * 238.0 * 8395.9 * -179.1 * -165.7 * 244.0 *
8410.0 * 3.7 * 239.5 * 8405.9 * -179.4 * -166.3 * 244.6 *
8420.0 * 3.8 * 241.0 * 8415.9 * -179.8 * -166.8 * 245.3 *
8430.0 * 3.7 * 238.5 * 8425.9 * -180.1 * -167.4 * 245.9 *
8440.0 * 3.6 * 236.0 * 8435.8 * -180.5 * -167.9 * 246.5 *
8450.0 * 3.7 * 235.0 * 8445.8 * -180.8 * -168.4 * 247.1 *
8460.0 * 3.7 * 234.0 * 8455.8 * -181.2 * -168.9 * 247.7 *
8470.0 * 3.8 * 235.0 * 8465.8 * -181.6 * -169.5 * 248.4 *
8480.0 * 3.8 * 236.0 * 8475.8 * -182.0 * -170.0 * 249.0 *
8490.0 * 3.8 * 237.5 * 8485.7 * -182.3 * -170.6 * 249.7 *
8500.0 * 3.8 * 239.0 * 8495.7 * -182.6 * -171.2 * 250.3 *
8510.0 * 4.1 * 239.0 * 8505.7 * -183.0 * -171.8 * 251.0 *
8520.0 * 4.3 * 239.0 * 8515.7 * -183.4 * -172.4 * 251.8 *
8530.0 * 4.1 * 239.0 * 8525.6 * -183.8 * -173.0 * 252.4 *
8540.0 * 3.9 * 239.0 * 8535.6 * -184.1 * -173.6 * 253.1 *
8550.0 * 4.0 * 239.0 * 8545.6 * -184.5 * -174.2 * 253.7 *
8560.0 * 4.0 * 239.0 * 8555.6 * -184.8 * -174.8 * 254.4 *
8570.0 * 4.2 * 240.0 * 8565.5 * -185.2 * -175.5 * 255.1 *
8580.0 * 4.3 * 241.0 * 8575.5 * -185.6 * -176.1 * 255.8 *
8590.0 * 4.7 * 241.5 * 8585.5 * -186.0 * -176.9 * 256.7 *
8600.0 * 5.0 * 242.0 * 8595.4 * -186.4 * -177.7 * 257.5 *
8610.0 * 4.8 * 240.0 * 8605.4 * -186.8 * -178.3 * 258.3 *
8620.0 * 4.6 * 238.0 * 8615.4 * -187.2 * -179.0 * 259.0 *
8630.0 * 4.4 * 238.5 * 8625.3 * -187.6 * -179.6 * 259.7 *
8640.0 * 4.2 * 239.0 * 8635.3 * -188.0 * -180.3 * 260.5 *
8650.0 * 4.2 * 240.0 * 8645.3 * -188.3 * -180.9 * 261.1 *
8660.0 * 4.1 * 241.0 * 8655.3 * -188.7 * -181.5 * 261.8 *
8670.0 * 4.1 * 242.5 * 8665.2 * -189.0 * -182.2 * 262.5 *
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*          *          * TRUE          * CO-ORDINATES          *
DEPTH * DEVIATION * AZIMUTH * VERTICAL * ***** COURSE *
FEET * DEGREES * DEGREES * DEPTH * * + NORTH * + EAST * LENGTH *
*          *          * FEET * * - SOUTH * - WEST * FEET *
*****
9140.0 * 4.9 * 249.0 * 9133.7 * -206.2 * -215.4 * 298.1 *
9150.0 * 4.9 * 246.5 * 9143.7 * -206.5 * -216.1 * 298.9 *
9160.0 * 4.9 * 244.0 * 9153.7 * -206.9 * -216.9 * 299.8 *
9170.0 * 5.1 * 244.5 * 9163.6 * -207.3 * -217.7 * 300.6 *
9180.0 * 5.2 * 245.0 * 9173.6 * -207.7 * -218.5 * 301.5 *
9190.0 * 5.2 * 243.0 * 9183.5 * -208.1 * -219.3 * 302.4 *
9200.0 * 5.2 * 241.0 * 9193.5 * -208.5 * -220.1 * 303.2 *
9210.0 * 5.1 * 241.0 * 9203.5 * -209.0 * -220.9 * 304.1 *
9220.0 * 4.9 * 241.0 * 9213.4 * -209.4 * -221.6 * 304.9 *
9230.0 * 4.9 * 243.0 * 9223.4 * -209.7 * -222.4 * 305.7 *
9240.0 * 4.8 * 245.0 * 9233.4 * -210.1 * -223.1 * 306.5 *
9250.0 * 4.9 * 242.0 * 9243.3 * -210.5 * -223.9 * 307.3 *
9260.0 * 5.0 * 239.0 * 9253.3 * -211.0 * -224.6 * 308.2 *
9270.0 * 4.9 * 240.5 * 9263.2 * -211.4 * -225.4 * 309.0 *
9280.0 * 4.8 * 242.0 * 9273.2 * -211.8 * -226.1 * 309.8 *
9290.0 * 4.9 * 243.5 * 9283.2 * -212.1 * -226.9 * 310.6 *
9300.0 * 4.9 * 245.0 * 9293.1 * -212.5 * -227.7 * 311.4 *
9310.0 * 4.9 * 245.0 * 9303.1 * -212.8 * -228.4 * 312.2 *
9320.0 * 4.9 * 245.0 * 9313.1 * -213.2 * -229.2 * 313.0 *
9330.0 * 5.1 * 245.0 * 9323.0 * -213.6 * -230.0 * 313.9 *
9340.0 * 5.2 * 245.0 * 9333.0 * -214.0 * -230.9 * 314.8 *
9350.0 * 5.3 * 245.5 * 9342.9 * -214.4 * -231.7 * 315.6 *
9360.0 * 5.3 * 246.0 * 9352.9 * -214.7 * -232.5 * 316.5 *
9370.0 * 5.3 * 243.0 * 9362.9 * -215.2 * -233.3 * 317.4 *
9380.0 * 5.3 * 240.0 * 9372.8 * -215.7 * -234.1 * 318.3 *
9390.0 * 5.3 * 242.5 * 9382.8 * -216.0 * -235.0 * 319.2 *
9400.0 * 5.2 * 245.0 * 9392.7 * -216.4 * -235.8 * 320.0 *
9410.0 * 5.3 * 244.5 * 9402.7 * -216.8 * -236.6 * 320.9 *
9420.0 * 5.4 * 244.0 * 9412.6 * -217.2 * -237.5 * 321.9 *
9430.0 * 5.3 * 244.5 * 9422.6 * -217.6 * -238.3 * 322.7 *
9440.0 * 5.2 * 245.0 * 9432.6 * -218.0 * -239.1 * 323.6 *
9450.0 * 5.2 * 245.0 * 9442.5 * -218.4 * -239.9 * 324.4 *
9460.0 * 5.2 * 245.0 * 9452.5 * -218.8 * -240.8 * 325.3 *
9470.0 * 5.3 * 245.5 * 9462.4 * -219.1 * -241.6 * 326.2 *
9480.0 * 5.3 * 246.0 * 9472.4 * -219.5 * -242.4 * 327.1 *
9490.0 * 5.2 * 245.0 * 9482.4 * -219.9 * -243.2 * 327.9 *
9500.0 * 5.1 * 244.0 * 9492.3 * -220.3 * -244.0 * 328.8 *
9510.0 * 5.2 * 244.5 * 9502.3 * -220.7 * -244.9 * 329.6 *
9520.0 * 5.2 * 245.0 * 9512.2 * -221.1 * -245.7 * 330.5 *
9530.0 * 5.2 * 245.5 * 9522.2 * -221.4 * -246.5 * 331.4 *
9540.0 * 5.1 * 246.0 * 9532.2 * -221.8 * -247.3 * 332.2 *
9550.0 * 5.3 * 246.0 * 9542.1 * -222.2 * -248.2 * 333.1 *
9560.0 * 5.4 * 246.0 * 9552.1 * -222.6 * -249.0 * 334.0 *
9570.0 * 5.1 * 246.5 * 9562.0 * -222.9 * -249.8 * 334.8 *
9580.0 * 4.8 * 247.0 * 9572.0 * -223.2 * -250.6 * 335.6 *
9590.0 * 5.0 * 248.0 * 9582.0 * -223.5 * -251.4 * 336.4 *
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				TRUE				CO-ORDINATES							
DEPTH	DEVIATION	AZIMUTH	VERTICAL	DEPTH	NORTH	EAST	COURSE	DEPTH	NORTH	EAST	COURSE	DEPTH	NORTH	EAST	COURSE
FEET	DEGREES	DEGREES	FEET	FEET	+ NORTH	+ EAST	LENGTH	FEET	+ NORTH	+ EAST	LENGTH	FEET	+ NORTH	+ EAST	LENGTH
					- SOUTH	- WEST	FEET		- SOUTH	- WEST	FEET		- SOUTH	- WEST	FEET

8680.0	4.1	244.0	8675.2	-189.3	-182.8	263.2									
8690.0	4.1	243.0	8685.2	-189.6	-183.4	263.8									
8700.0	4.1	242.0	8695.2	-190.0	-184.1	264.5									
8710.0	4.2	242.0	8705.1	-190.3	-184.7	265.2									
8720.0	4.2	242.0	8715.1	-190.7	-185.4	265.9									
8730.0	4.2	241.5	8725.1	-191.0	-186.0	266.6									
8740.0	4.2	241.0	8735.1	-191.4	-186.6	267.3									
8750.0	4.3	239.5	8745.0	-191.8	-187.3	268.0									
8760.0	4.3	238.0	8755.0	-192.2	-187.9	268.8									
8770.0	4.2	240.0	8765.0	-192.5	-188.5	269.5									
8780.0	4.1	242.0	8774.9	-192.8	-189.2	270.1									
8790.0	4.2	243.0	8784.9	-193.2	-189.9	270.8									
8800.0	4.3	244.0	8794.9	-193.5	-190.5	271.6									
8810.0	4.3	244.5	8804.9	-193.8	-191.2	272.2									
8820.0	4.2	245.0	8814.8	-194.1	-191.9	272.9									
8830.0	4.3	243.5	8824.8	-194.5	-192.5	273.7									
8840.0	4.4	242.0	8834.8	-194.8	-193.2	274.4									
8850.0	4.5	242.0	8844.7	-195.2	-193.9	275.2									
8860.0	4.6	242.0	8854.7	-195.6	-194.6	275.9									
8870.0	4.7	241.5	8864.7	-196.0	-195.3	276.7									
8880.0	4.7	241.0	8874.6	-196.4	-196.1	277.5									
8890.0	4.7	241.5	8884.6	-196.8	-196.8	278.3									
8900.0	4.6	242.0	8894.6	-197.1	-197.5	279.0									
8910.0	4.7	241.5	8904.5	-197.5	-198.2	279.8									
8920.0	4.8	241.0	8914.5	-197.9	-198.9	280.6									
8930.0	4.7	242.0	8924.5	-198.3	-199.6	281.4									
8940.0	4.5	243.0	8934.4	-198.7	-200.3	282.1									
8950.0	4.6	242.5	8944.4	-199.0	-201.0	282.9									
8960.0	4.6	242.0	8954.4	-199.4	-201.8	283.7									
8970.0	4.7	243.0	8964.4	-199.8	-202.5	284.4									
8980.0	4.7	244.0	8974.3	-200.1	-203.2	285.2									
8990.0	4.7	243.0	8984.3	-200.5	-203.9	286.0									
9000.0	4.6	242.0	8994.3	-200.9	-204.6	286.8									
9010.0	4.8	243.0	9004.2	-201.3	-205.4	287.6									
9020.0	4.9	244.0	9014.2	-201.6	-206.2	288.4									
9030.0	4.9	243.0	9024.1	-202.0	-206.9	289.2									
9040.0	4.9	242.0	9034.1	-202.4	-207.7	290.0									
9050.0	4.8	243.0	9044.1	-202.8	-208.4	290.8									
9060.0	4.7	244.0	9054.0	-203.2	-209.2	291.6									
9070.0	4.8	243.5	9064.0	-203.5	-209.9	292.4									
9080.0	4.9	243.0	9074.0	-203.9	-210.7	293.2									
9090.0	4.9	242.5	9083.9	-204.3	-211.5	294.1									
9100.0	5.0	242.0	9093.9	-204.7	-212.2	294.9									
9110.0	5.0	242.5	9103.9	-205.1	-213.0	295.7									
9120.0	5.0	243.0	9113.8	-205.5	-213.8	296.6									
9130.0	4.9	246.0	9123.8	-205.8	-214.6	297.3									

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*          *          *          *          *          *          *          *
* DEPTH    * DEVIATION * AZIMUTH  * TRUE      * CO-ORDINATES *          *
* FEET     * DEGREES  * DEGREES * VERTICAL  *          *          *          *
*          *          *          * FEET      * + NORTH * + EAST * COURSE *
*          *          *          *          * - SOUTH * - WEST * LENGTH *
*          *          *          *          *          *          *          *
*****
9600.0 * 5.1 * 249.0 * 9591.9 * -223.9 * -252.2 * 337.2 *
9610.0 * 5.3 * 249.0 * 9601.9 * -224.2 * -253.1 * 338.1 *
9620.0 * 5.4 * 249.0 * 9611.8 * -224.5 * -254.0 * 339.0 *
9630.0 * 5.3 * 249.0 * 9621.8 * -224.8 * -254.8 * 339.9 *
9640.0 * 5.2 * 249.0 * 9631.7 * -225.2 * -255.7 * 340.7 *
9650.0 * 5.3 * 249.0 * 9641.7 * -225.5 * -256.5 * 341.6 *
9660.0 * 5.3 * 249.0 * 9651.7 * -225.8 * -257.4 * 342.4 *
9670.0 * 5.4 * 248.0 * 9661.6 * -226.2 * -258.3 * 343.3 *
9680.0 * 5.5 * 247.0 * 9671.6 * -226.6 * -259.2 * 344.3 *
9690.0 * 5.5 * 245.5 * 9681.5 * -227.0 * -260.0 * 345.2 *
9700.0 * 5.5 * 244.0 * 9691.5 * -227.4 * -260.9 * 346.1 *
9710.0 * 5.6 * 246.5 * 9701.4 * -227.8 * -261.8 * 347.0 *
9720.0 * 5.6 * 249.0 * 9711.4 * -228.1 * -262.7 * 347.9 *
9730.0 * 5.7 * 247.0 * 9721.3 * -228.5 * -263.6 * 348.9 *
9740.0 * 5.7 * 245.0 * 9731.3 * -229.0 * -264.5 * 349.8 *
9750.0 * 5.8 * 245.0 * 9741.2 * -229.4 * -265.4 * 350.8 *
9760.0 * 5.8 * 245.0 * 9751.2 * -229.8 * -266.3 * 351.8 *
9770.0 * 5.9 * 244.5 * 9761.1 * -230.3 * -267.3 * 352.8 *
9780.0 * 5.9 * 244.0 * 9771.1 * -230.7 * -268.2 * 353.8 *
9790.0 * 5.9 * 244.5 * 9781.0 * -231.1 * -269.1 * 354.8 *
9800.0 * 5.8 * 245.0 * 9791.0 * -231.6 * -270.0 * 355.7 *
9810.0 * 6.0 * 245.0 * 9800.9 * -232.0 * -271.0 * 356.8 *
9820.0 * 6.1 * 245.0 * 9810.9 * -232.5 * -272.0 * 357.8 *
9830.0 * 5.9 * 245.0 * 9820.8 * -232.9 * -272.9 * 358.7 *
9840.0 * 5.7 * 245.0 * 9830.8 * -233.3 * -273.8 * 359.7 *
9850.0 * 5.8 * 244.5 * 9840.7 * -233.8 * -274.7 * 360.7 *
9860.0 * 5.9 * 244.0 * 9850.7 * -234.2 * -275.6 * 361.7 *
9870.0 * 5.9 * 244.0 * 9860.6 * -234.7 * -276.5 * 362.7 *
9880.0 * 6.0 * 244.0 * 9870.5 * -235.1 * -277.5 * 363.7 *
9890.0 * 5.9 * 244.0 * 9880.5 * -235.6 * -278.4 * 364.7 *
9900.0 * 5.9 * 244.0 * 9890.4 * -236.0 * -279.3 * 365.7 *
9910.0 * 5.9 * 244.5 * 9900.4 * -236.5 * -280.3 * 366.7 *
9920.0 * 6.0 * 245.0 * 9910.3 * -236.9 * -281.2 * 367.7 *
9930.0 * 6.0 * 243.5 * 9920.3 * -237.4 * -282.1 * 368.7 *
9940.0 * 6.0 * 242.0 * 9930.2 * -237.9 * -283.1 * 369.8 *
9950.0 * 5.9 * 243.5 * 9940.2 * -238.3 * -284.0 * 370.7 *
9960.0 * 5.8 * 245.0 * 9950.1 * -238.7 * -284.9 * 371.7 *
9970.0 * 5.8 * 244.0 * 9960.1 * -239.2 * -285.8 * 372.7 *
9980.0 * 5.8 * 243.0 * 9970.0 * -239.7 * -286.7 * 373.7 *
9990.0 * 5.8 * 243.5 * 9980.0 * -240.1 * -287.6 * 374.6 *
10000.0 * 5.7 * 244.0 * 9989.9 * -240.5 * -288.5 * 375.6 *
10010.0 * 5.8 * 244.5 * 9999.9 * -241.0 * -289.4 * 376.6 *
10020.0 * 5.8 * 245.0 * 10009.8 * -241.4 * -290.3 * 377.6 *
10030.0 * 5.9 * 244.0 * 10019.8 * -241.9 * -291.3 * 378.6 *
10040.0 * 6.0 * 243.0 * 10029.7 * -242.3 * -292.2 * 379.6 *
10050.0 * 6.0 * 243.5 * 10039.6 * -242.8 * -293.1 * 380.6 *
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DEPTH FEET	DEVIATION DEGREES	AZIMUTH DEGREES	TRUE VERTICAL DEPTH FEET	CO-ORDINATES + NORTH - SOUTH	+ EAST - WEST	COURSE LENGTH FEET
10060.0	6.0	244.0	10049.6	-243.3	-294.1	381.6
10070.0	5.9	244.5	10059.5	-243.7	-295.0	382.6
10080.0	5.9	245.0	10069.5	-244.1	-295.9	383.6
10090.0	5.8	246.0	10079.4	-244.5	-296.8	384.6
10100.0	5.6	247.0	10089.4	-244.9	-297.7	385.5
10110.0	5.7	246.0	10099.3	-245.3	-298.6	386.5
10120.0	5.8	245.0	10109.3	-245.7	-299.6	387.5
10130.0	5.9	244.0	10119.2	-246.2	-300.5	388.5
10140.0	5.9	243.0	10129.2	-246.7	-301.4	389.5
10150.0	5.9	244.0	10139.1	-247.1	-302.3	390.5
10160.0	6.0	245.0	10149.1	-247.6	-303.3	391.5
10170.0	6.0	244.5	10159.0	-248.0	-304.2	392.5
10180.0	6.0	244.0	10169.0	-248.5	-305.2	393.5
10190.0	6.0	243.5	10178.9	-249.0	-306.1	394.5
10200.0	6.0	243.0	10188.9	-249.4	-307.0	395.6
10210.0	5.9	242.5	10198.8	-249.9	-307.9	396.6
10220.0	5.8	242.0	10208.8	-250.4	-308.8	397.6
10230.0	5.7	240.5	10218.7	-250.9	-309.6	398.5
10240.0	5.6	239.0	10228.7	-251.4	-310.5	399.5
10250.0	5.6	239.5	10238.6	-251.9	-311.3	400.4
10260.0	5.6	240.0	10248.6	-252.4	-312.2	401.4
10270.0	5.6	239.0	10258.5	-252.9	-313.0	402.4
10280.0	5.6	238.0	10268.5	-253.4	-313.8	403.4
10290.0	5.6	238.5	10278.4	-253.9	-314.7	404.3
10300.0	5.6	239.0	10288.4	-254.4	-315.5	405.3
10310.0	5.6	239.0	10298.3	-254.9	-316.3	406.2
10320.0	5.5	239.0	10308.3	-255.4	-317.1	407.2
10330.0	5.5	240.5	10318.2	-255.8	-318.0	408.1
10340.0	5.5	242.0	10328.2	-256.3	-318.8	409.1
10350.0	5.6	241.0	10338.1	-256.8	-319.7	410.0
10360.0	5.6	240.0	10348.1	-257.3	-320.5	411.0
10370.0	5.5	240.0	10358.0	-257.7	-321.3	411.9
10380.0	5.4	240.0	10368.0	-258.2	-322.2	412.9
10390.0	5.6	242.0	10378.0	-258.6	-323.0	413.8
10400.0	5.7	244.0	10387.9	-259.1	-323.9	414.8
10410.0	5.8	243.5	10397.9	-259.5	-324.8	415.8
10420.0	5.8	243.0	10407.8	-260.0	-325.7	416.8
10430.0	5.7	241.5	10417.8	-260.5	-326.6	417.7
10440.0	5.6	240.0	10427.7	-261.0	-327.4	418.7
10450.0	5.7	239.5	10437.7	-261.5	-328.3	419.7
10460.0	5.7	239.0	10447.6	-262.0	-329.1	420.7
10470.0	5.7	239.0	10457.6	-262.5	-330.0	421.7
10480.0	5.7	239.0	10467.5	-263.0	-330.8	422.6
10490.0	5.7	239.5	10477.5	-263.5	-331.7	423.6
10500.0	5.6	240.0	10487.4	-264.0	-332.5	424.6
10510.0	5.6	242.0	10497.4	-264.4	-333.4	425.5

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*      *      *      *      *      *      *      *      *      *
DEPTH * DEVIATION * AZIMUTH * TRUE * CO-ORDINATES *      *
FEET  * DEGREES  * DEGREES * VERTICAL *          * COURSE *
*      *      *      *      *      *      *      *      *      *
*      *      *      *      *      *      *      *      *      *
*****
10520.0 * 5.6 * 244.0 * 10507.3 * -264.8 * -334.3 * 426.5 *
10530.0 * 5.6 * 244.5 * 10517.3 * -265.3 * -335.2 * 427.4 *
10540.0 * 5.6 * 245.0 * 10527.2 * -265.7 * -336.0 * 428.4 *
10550.0 * 5.7 * 243.5 * 10537.2 * -266.1 * -336.9 * 429.4 *
10560.0 * 5.7 * 242.0 * 10547.1 * -266.6 * -337.8 * 430.3 *
10570.0 * 5.7 * 240.0 * 10557.1 * -267.1 * -338.6 * 431.3 *
10580.0 * 5.6 * 238.0 * 10567.0 * -267.6 * -339.5 * 432.3 *
10590.0 * 5.6 * 238.0 * 10577.0 * -268.1 * -340.3 * 433.2 *
10600.0 * 5.5 * 238.0 * 10586.9 * -268.6 * -341.1 * 434.2 *
10610.0 * 5.6 * 239.0 * 10596.9 * -269.1 * -341.9 * 435.1 *
10620.0 * 5.6 * 240.0 * 10606.8 * -269.6 * -342.8 * 436.1 *
10630.0 * 5.6 * 239.5 * 10616.8 * -270.1 * -343.6 * 437.1 *
10640.0 * 5.6 * 239.0 * 10626.7 * -270.6 * -344.4 * 438.0 *
10650.0 * 5.6 * 239.5 * 10636.7 * -271.1 * -345.3 * 439.0 *
10660.0 * 5.5 * 240.0 * 10646.7 * -271.6 * -346.1 * 439.9 *
10670.0 * 5.6 * 238.5 * 10656.6 * -272.1 * -346.9 * 440.9 *
10680.0 * 5.7 * 237.0 * 10666.6 * -272.7 * -347.8 * 441.9 *
10690.0 * 5.7 * 236.5 * 10676.5 * -273.2 * -348.6 * 442.9 *
10700.0 * 5.6 * 236.0 * 10686.5 * -273.8 * -349.4 * 443.9 *
10710.0 * 5.7 * 236.5 * 10696.4 * -274.3 * -350.2 * 444.9 *
10720.0 * 5.7 * 237.0 * 10706.4 * -274.8 * -351.1 * 445.8 *
10730.0 * 5.8 * 237.5 * 10716.3 * -275.4 * -351.9 * 446.9 *
10740.0 * 5.8 * 238.0 * 10726.3 * -275.9 * -352.8 * 447.9 *
10750.0 * 5.8 * 237.5 * 10736.2 * -276.5 * -353.6 * 448.8 *
10760.0 * 5.7 * 237.0 * 10746.2 * -277.0 * -354.4 * 449.8 *
10770.0 * 5.7 * 235.5 * 10756.1 * -277.6 * -355.2 * 450.8 *
10780.0 * 5.6 * 234.0 * 10766.1 * -278.1 * -356.0 * 451.8 *
10790.0 * 5.7 * 235.0 * 10776.0 * -278.7 * -356.9 * 452.8 *
10800.0 * 5.8 * 236.0 * 10786.0 * -279.3 * -357.7 * 453.8 *
10810.0 * 5.8 * 236.5 * 10795.9 * -279.8 * -358.5 * 454.8 *
10820.0 * 5.7 * 237.0 * 10805.9 * -280.4 * -359.4 * 455.8 *
10830.0 * 5.7 * 236.0 * 10815.8 * -280.9 * -360.2 * 456.8 *
10840.0 * 5.6 * 235.0 * 10825.8 * -281.5 * -361.0 * 457.7 *
10850.0 * 5.8 * 234.5 * 10835.7 * -282.1 * -361.8 * 458.8 *
10860.0 * 5.9 * 234.0 * 10845.7 * -282.7 * -362.6 * 459.8 *
10870.0 * 5.9 * 234.0 * 10855.6 * -283.3 * -363.4 * 460.8 *
10880.0 * 5.9 * 234.0 * 10865.6 * -283.9 * -364.3 * 461.8 *
10890.0 * 6.0 * 235.5 * 10875.5 * -284.5 * -365.2 * 462.9 *
10900.0 * 6.1 * 237.0 * 10885.4 * -285.0 * -366.1 * 464.0 *
10910.0 * 6.0 * 236.0 * 10895.4 * -285.6 * -366.9 * 465.0 *
10920.0 * 5.9 * 235.0 * 10905.3 * -286.2 * -367.7 * 466.0 *
10930.0 * 5.9 * 234.5 * 10915.3 * -286.8 * -368.6 * 467.1 *
10940.0 * 6.0 * 234.0 * 10925.2 * -287.5 * -369.4 * 468.1 *
10950.0 * 6.0 * 235.5 * 10935.2 * -288.0 * -370.3 * 469.1 *
10960.0 * 6.0 * 237.0 * 10945.1 * -288.6 * -371.2 * 470.2 *
10970.0 * 6.0 * 237.0 * 10955.1 * -289.2 * -372.1 * 471.2 *
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*          *          * TRUE          * CO-ORDINATES          *
* DEPTH * DEVIATION * AZIMUTH * VERTICAL * ***** COURSE *
* FEET * DEGREES * DEGREES * DEPTH * * + NORTH * + EAST * LENGTH *
*          *          * FEET * * - SOUTH * - WEST * FEET *
*****
10980.0 * 6.0 * 237.0 * 10965.0 * -289.7 * -372.9 * 472.3 *
10990.0 * 5.9 * 237.0 * 10975.0 * -290.3 * -373.8 * 473.3 *
11000.0 * 5.9 * 237.0 * 10984.9 * -290.9 * -374.7 * 474.3 *
11010.0 * 5.9 * 234.0 * 10994.8 * -291.5 * -375.5 * 475.3 *
11020.0 * 5.9 * 231.0 * 11004.8 * -292.1 * -376.3 * 476.4 *
11030.0 * 5.8 * 232.5 * 11014.7 * -292.7 * -377.1 * 477.4 *
11040.0 * 5.7 * 234.0 * 11024.7 * -293.3 * -377.9 * 478.4 *
11050.0 * 5.7 * 233.5 * 11034.6 * -293.9 * -378.7 * 479.3 *
11060.0 * 5.7 * 233.0 * 11044.6 * -294.5 * -379.5 * 480.3 *
11070.0 * 5.7 * 233.5 * 11054.5 * -295.1 * -380.3 * 481.3 *
11080.0 * 5.6 * 234.0 * 11064.5 * -295.7 * -381.0 * 482.3 *
11090.0 * 5.7 * 232.0 * 11074.4 * -296.3 * -381.8 * 483.3 *
11100.0 * 5.7 * 230.0 * 11084.4 * -296.9 * -382.6 * 484.3 *
11110.0 * 5.8 * 231.0 * 11094.3 * -297.6 * -383.4 * 485.3 *
11120.0 * 5.8 * 232.0 * 11104.3 * -298.2 * -384.2 * 486.3 *
11130.0 * 5.8 * 233.0 * 11114.2 * -298.8 * -385.0 * 487.3 *
11140.0 * 5.7 * 234.0 * 11124.2 * -299.3 * -385.8 * 488.3 *
11150.0 * 5.7 * 233.5 * 11134.1 * -299.9 * -386.6 * 489.3 *
11160.0 * 5.7 * 233.0 * 11144.1 * -300.5 * -387.3 * 490.3 *
11170.0 * 5.7 * 233.5 * 11154.0 * -301.1 * -388.2 * 491.3 *
11180.0 * 5.7 * 234.0 * 11164.0 * -301.7 * -389.0 * 492.3 *
11190.0 * 5.7 * 233.5 * 11174.0 * -302.3 * -389.7 * 493.2 *
11200.0 * 5.7 * 233.0 * 11183.9 * -302.9 * -390.5 * 494.2 *
11210.0 * 5.7 * 234.0 * 11193.9 * -303.5 * -391.4 * 495.2 *
11220.0 * 5.7 * 235.0 * 11203.8 * -304.0 * -392.2 * 496.2 *
11230.0 * 5.8 * 235.5 * 11213.8 * -304.6 * -393.0 * 497.2 *
11240.0 * 5.8 * 236.0 * 11223.7 * -305.2 * -393.8 * 498.2 *
11250.0 * 5.9 * 236.0 * 11233.6 * -305.7 * -394.7 * 499.3 *
11260.0 * 5.9 * 236.0 * 11243.6 * -306.3 * -395.5 * 500.3 *
11270.0 * 5.9 * 236.5 * 11253.5 * -306.9 * -396.4 * 501.3 *
11280.0 * 5.8 * 237.0 * 11263.5 * -307.4 * -397.2 * 502.3 *
11290.0 * 5.7 * 237.0 * 11273.4 * -308.0 * -398.1 * 503.3 *
11300.0 * 5.6 * 237.0 * 11283.4 * -308.5 * -398.9 * 504.3 *
11310.0 * 5.6 * 235.0 * 11293.3 * -309.1 * -399.7 * 505.2 *
11320.0 * 5.6 * 233.0 * 11303.3 * -309.7 * -400.4 * 506.2 *
11330.0 * 5.7 * 233.5 * 11313.3 * -310.2 * -401.2 * 507.2 *
11340.0 * 5.7 * 234.0 * 11323.2 * -310.8 * -402.0 * 508.2 *
11350.0 * 5.7 * 235.0 * 11333.2 * -311.4 * -402.9 * 509.2 *
11360.0 * 5.7 * 236.0 * 11343.1 * -311.9 * -403.7 * 510.2 *
11370.0 * 5.7 * 233.0 * 11353.1 * -312.6 * -404.4 * 511.1 *
11380.0 * 5.6 * 230.0 * 11363.0 * -313.2 * -405.2 * 512.1 *
11390.0 * 5.6 * 233.0 * 11373.0 * -313.7 * -406.0 * 513.1 *
11400.0 * 5.6 * 236.0 * 11382.9 * -314.3 * -406.8 * 514.1 *
11410.0 * 5.8 * 234.5 * 11392.9 * -314.9 * -407.6 * 515.1 *
11420.0 * 5.9 * 233.0 * 11402.8 * -315.5 * -408.4 * 516.1 *
11430.0 * 5.8 * 233.0 * 11412.8 * -316.1 * -409.2 * 517.1 *
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*          *          *          * TRUE          * CO-ORDINATES          *          *
* DEPTH    * DEVIATION * AZIMUTH * VERTICAL * ***** COURSE *
* FEET     * DEGREES  * DEGREES * DEPTH   * + NORTH * + EAST * LENGTH *
*          *          *          * FEET    * - SOUTH * - WEST * FEET   *
*****
* 11440.0 * 5.7 * 233.0 * 11422.7 * -316.7 * -410.0 * 518.1 *
* 11450.0 * 5.8 * 235.5 * 11432.7 * -317.3 * -410.9 * 519.1 *
* 11460.0 * 5.8 * 238.0 * 11442.6 * -317.8 * -411.7 * 520.1 *
* 11470.0 * 5.8 * 234.0 * 11452.6 * -318.4 * -412.5 * 521.1 *
* 11480.0 * 5.8 * 230.0 * 11462.5 * -319.1 * -413.3 * 522.1 *
* 11490.0 * 5.9 * 231.5 * 11472.4 * -319.7 * -414.1 * 523.2 *
* 11500.0 * 5.9 * 233.0 * 11482.4 * -320.3 * -414.9 * 524.2 *
* 11510.0 * 5.9 * 232.0 * 11492.3 * -321.0 * -415.7 * 525.2 *
* 11520.0 * 5.8 * 231.0 * 11502.3 * -321.6 * -416.5 * 526.2 *
* 11530.0 * 5.8 * 230.5 * 11512.2 * -322.2 * -417.3 * 527.2 *
* 11540.0 * 5.7 * 230.0 * 11522.2 * -322.9 * -418.0 * 528.2 *
* 11550.0 * 5.6 * 229.5 * 11532.1 * -323.5 * -418.8 * 529.2 *
* 11560.0 * 5.5 * 229.0 * 11542.1 * -324.1 * -419.5 * 530.1 *
* 11570.0 * 5.6 * 229.5 * 11552.1 * -324.8 * -420.2 * 531.1 *
* 11580.0 * 5.7 * 230.0 * 11562.0 * -325.4 * -421.0 * 532.1 *
* 11590.0 * 5.8 * 229.5 * 11572.0 * -326.1 * -421.8 * 533.1 *
* 11600.0 * 5.9 * 229.0 * 11581.9 * -326.8 * -422.6 * 534.2 *
* 11610.0 * 5.8 * 229.5 * 11591.8 * -327.4 * -423.3 * 535.1 *
* 11620.0 * 5.7 * 230.0 * 11601.8 * -328.0 * -424.1 * 536.1 *
* 11630.0 * 5.7 * 229.5 * 11611.8 * -328.7 * -424.8 * 537.1 *
* 11640.0 * 5.7 * 229.0 * 11621.7 * -329.3 * -425.6 * 538.1 *
* 11650.0 * 5.7 * 229.0 * 11631.7 * -330.0 * -426.3 * 539.1 *
* 11660.0 * 5.7 * 229.0 * 11641.6 * -330.6 * -427.1 * 540.1 *
* 11670.0 * 5.7 * 229.5 * 11651.6 * -331.3 * -427.8 * 541.1 *
* 11680.0 * 5.7 * 230.0 * 11661.5 * -331.9 * -428.6 * 542.1 *
* 11690.0 * 5.7 * 229.0 * 11671.5 * -332.6 * -429.3 * 543.1 *
* 11700.0 * 5.7 * 228.0 * 11681.4 * -333.2 * -430.1 * 544.1 *
* 11710.0 * 5.8 * 228.0 * 11691.4 * -333.9 * -430.8 * 545.1 *
* 11720.0 * 5.9 * 228.0 * 11701.3 * -334.6 * -431.6 * 546.1 *
* 11730.0 * 5.9 * 229.0 * 11711.2 * -335.3 * -432.4 * 547.1 *
* 11740.0 * 5.8 * 230.0 * 11721.2 * -335.9 * -433.1 * 548.1 *
* 11750.0 * 5.8 * 235.0 * 11731.1 * -336.4 * -434.0 * 549.1 *
* 11760.0 * 5.7 * 240.0 * 11741.1 * -336.9 * -434.9 * 550.1 *
* 11770.0 * 5.7 * 237.0 * 11751.0 * -337.5 * -435.7 * 551.1 *
* 11780.0 * 5.6 * 234.0 * 11761.0 * -338.1 * -436.4 * 552.1 *
* 11790.0 * 5.7 * 232.5 * 11771.0 * -338.7 * -437.2 * 553.1 *
* 11800.0 * 5.8 * 231.0 * 11780.9 * -339.3 * -438.0 * 554.1 *
* 11810.0 * 5.8 * 232.0 * 11790.8 * -339.9 * -438.8 * 555.1 *
* 11820.0 * 5.7 * 233.0 * 11800.8 * -340.5 * -439.6 * 556.1 *
* 11830.0 * 5.6 * 234.0 * 11810.8 * -341.1 * -440.4 * 557.0 *
* 11840.0 * 5.5 * 235.0 * 11820.7 * -341.6 * -441.2 * 558.0 *
* 11850.0 * 5.7 * 233.0 * 11830.7 * -342.3 * -442.0 * 559.0 *
* 11860.0 * 5.8 * 231.0 * 11840.6 * -342.9 * -442.7 * 560.0 *
* 11870.0 * 5.8 * 228.0 * 11850.6 * -343.6 * -443.4 * 561.0 *
* 11880.0 * 5.7 * 225.0 * 11860.5 * -344.3 * -444.1 * 562.0 *
* 11890.0 * 5.7 * 227.5 * 11870.5 * -344.9 * -444.9 * 563.0 *
*****

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REF 3557.

PAGE 16

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*      *      *      *      *      *      *      *      *      *      *
* DEPTH * DEVIATION * AZIMUTH * TRUE * CO-ORDINATES *      *
* FEET  * DEGREES  * DEGREES * VERTICAL * ***** COURSE *
*      *      *      *      *      *      *      *      *      *
*      *      *      *      *      *      *      *      *      *
*****
* 11900.0 * 5.7 * 230.0 * 11880.4 * -345.6 * -445.7 * 564.0 *
* 11910.0 * 5.8 * 233.0 * 11890.4 * -346.2 * -446.5 * 565.0 *
* 11920.0 * 5.9 * 236.0 * 11900.3 * -346.7 * -447.4 * 566.0 *
* 11930.0 * 5.9 * 234.5 * 11910.3 * -347.3 * -448.2 * 567.0 *
* 11940.0 * 5.8 * 233.0 * 11920.2 * -347.9 * -449.0 * 568.0 *
* 11950.0 * 5.8 * 228.5 * 11930.1 * -348.7 * -449.7 * 569.0 *
* 11960.0 * 5.7 * 224.0 * 11940.1 * -349.4 * -450.4 * 570.0 *
* 11970.0 * 5.9 * 225.5 * 11950.0 * -350.1 * -451.1 * 571.0 *
* 11980.0 * 6.0 * 227.0 * 11960.0 * -350.8 * -451.9 * 572.1 *
* 11990.0 * 5.9 * 226.5 * 11969.9 * -351.5 * -452.6 * 573.1 *
* 12000.0 * 5.7 * 226.0 * 11979.9 * -352.2 * -453.3 * 574.1 *
* 12010.0 * 5.7 * 225.5 * 11989.8 * -352.9 * -454.0 * 575.0 *
* 12020.0 * 5.7 * 225.0 * 11999.8 * -353.6 * -454.7 * 576.0 *
* 12030.0 * 5.7 * 225.5 * 12009.7 * -354.3 * -455.4 * 577.0 *
* 12040.0 * 5.7 * 226.0 * 12019.7 * -355.0 * -456.2 * 578.0 *
* 12050.0 * 5.8 * 226.5 * 12029.6 * -355.7 * -456.9 * 579.0 *
* 12060.0 * 5.8 * 227.0 * 12039.6 * -356.3 * -457.6 * 580.0 *
* 12070.0 * 5.8 * 225.5 * 12049.5 * -357.1 * -458.3 * 581.0 *
* 12080.0 * 5.8 * 224.0 * 12059.5 * -357.8 * -459.0 * 582.0 *
* 12090.0 * 5.9 * 226.5 * 12069.4 * -358.5 * -459.8 * 583.0 *
* 12100.0 * 5.9 * 229.0 * 12079.4 * -359.1 * -460.6 * 584.1 *
* 12110.0 * 5.9 * 227.0 * 12089.3 * -359.9 * -461.3 * 585.1 *
* 12120.0 * 6.0 * 225.0 * 12099.3 * -360.6 * -462.1 * 586.1 *
* 12130.0 * 5.9 * 224.5 * 12109.2 * -361.4 * -462.8 * 587.2 *
* 12140.0 * 5.9 * 224.0 * 12119.2 * -362.1 * -463.5 * 588.2 *
* 12150.0 * 5.9 * 224.5 * 12129.1 * -362.8 * -464.2 * 589.2 *
* 12160.0 * 5.9 * 225.0 * 12139.1 * -363.6 * -465.0 * 590.2 *
* 12170.0 * 5.9 * 224.5 * 12149.0 * -364.3 * -465.7 * 591.2 *
* 12180.0 * 5.9 * 224.0 * 12159.0 * -365.0 * -466.4 * 592.3 *
* 12190.0 * 5.9 * 224.5 * 12168.9 * -365.8 * -467.1 * 593.3 *
* 12200.0 * 5.8 * 225.0 * 12178.9 * -366.5 * -467.8 * 594.3 *
* 12210.0 * 5.8 * 226.0 * 12188.8 * -367.2 * -468.5 * 595.3 *
* 12220.0 * 5.8 * 227.0 * 12198.8 * -367.8 * -469.3 * 596.3 *
* 12230.0 * 5.8 * 233.0 * 12208.7 * -368.4 * -470.2 * 597.3 *
* 12240.0 * 5.8 * 239.0 * 12218.6 * -368.9 * -471.0 * 598.3 *
* 12250.0 * 5.8 * 233.5 * 12228.6 * -369.6 * -471.8 * 599.3 *
* 12260.0 * 5.7 * 228.0 * 12238.5 * -370.2 * -472.5 * 600.3 *
* 12270.0 * 5.8 * 229.5 * 12248.5 * -370.9 * -473.3 * 601.3 *
* 12280.0 * 5.8 * 231.0 * 12258.4 * -371.5 * -474.1 * 602.3 *
* 12290.0 * 5.9 * 229.0 * 12268.4 * -372.2 * -474.8 * 603.3 *
* 12300.0 * 5.9 * 227.0 * 12278.3 * -372.9 * -475.6 * 604.3 *
* 12310.0 * 5.9 * 230.5 * 12288.3 * -373.5 * -476.4 * 605.4 *
* 12320.0 * 5.9 * 234.0 * 12298.2 * -374.1 * -477.2 * 606.4 *
* 12330.0 * 5.8 * 233.0 * 12308.2 * -374.7 * -478.0 * 607.4 *
* 12340.0 * 5.7 * 232.0 * 12318.1 * -375.3 * -478.8 * 608.4 *
* 12350.0 * 5.8 * 228.0 * 12328.1 * -376.1 * -479.5 * 609.4 *
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REF 3557.

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*          *          *          *          *          *          *          *
* DEPTH    * DEVIATION * AZIMUTH * TRUE      * CO-ORDINATES *          *
* FEET     * DEGREES  * DEGREES * VERTICAL *          * COURSE *
*          *          *          * DEPTH   * + NORTH * + EAST * LENGTH *
*          *          *          * FEET    * - SOUTH * - WEST * FEET   *
*****
* 12360.0 * 5.9    * 224.0 * 12338.0 * -376.8 * -480.2 * 610.4 *
* 12370.0 * 5.9    * 231.0 * 12348.0 * -377.3 * -481.1 * 611.4 *
* 12380.0 * 5.9    * 238.0 * 12357.9 * -377.9 * -482.0 * 612.5 *
* 12390.0 * 5.9    * 232.5 * 12367.9 * -378.6 * -482.7 * 613.5 *
* 12400.0 * 5.8    * 227.0 * 12377.8 * -379.3 * -483.4 * 614.5 *
* 12410.0 * 5.9    * 229.5 * 12387.8 * -379.9 * -484.3 * 615.5 *
* 12420.0 * 6.0    * 232.0 * 12397.7 * -380.6 * -485.1 * 616.6 *
* 12430.0 * 5.9    * 226.0 * 12407.7 * -381.3 * -485.7 * 617.5 *
* 12440.0 * 5.7    * 220.0 * 12417.6 * -382.1 * -486.4 * 618.5 *
* 12450.0 * 5.9    * 222.0 * 12427.6 * -382.8 * -487.1 * 619.5 *
* 12460.0 * 6.0    * 224.0 * 12437.5 * -383.6 * -487.8 * 620.6 *
* 12470.0 * 5.9    * 225.5 * 12447.5 * -384.3 * -488.6 * 621.6 *
* 12480.0 * 5.8    * 227.0 * 12457.4 * -385.0 * -489.3 * 622.6 *
* 12490.0 * 5.9    * 225.5 * 12467.3 * -385.7 * -490.0 * 623.6 *
* 12500.0 * 6.0    * 224.0 * 12477.3 * -386.5 * -490.8 * 624.7 *
* 12510.0 * 6.0    * 223.0 * 12487.2 * -387.2 * -491.5 * 625.7 *
* 12520.0 * 6.0    * 222.0 * 12497.2 * -388.0 * -492.2 * 626.7 *
* 12530.0 * 5.9    * 223.0 * 12507.1 * -388.8 * -492.9 * 627.7 *
* 12540.0 * 5.9    * 224.0 * 12517.1 * -389.5 * -493.6 * 628.8 *
* 12550.0 * 5.9    * 223.5 * 12527.0 * -390.3 * -494.3 * 629.8 *
* 12560.0 * 6.0    * 223.0 * 12537.0 * -391.0 * -495.0 * 630.8 *
* 12570.0 * 5.9    * 222.5 * 12546.9 * -391.8 * -495.7 * 631.8 *
* 12580.0 * 5.9    * 222.0 * 12556.9 * -392.6 * -496.4 * 632.8 *
* 12590.0 * 5.9    * 220.5 * 12566.8 * -393.3 * -497.0 * 633.8 *
* 12600.0 * 5.8    * 219.0 * 12576.8 * -394.1 * -497.7 * 634.8 *
* 12610.0 * 5.9    * 220.0 * 12586.7 * -394.9 * -498.3 * 635.8 *
* 12620.0 * 5.9    * 221.0 * 12596.7 * -395.7 * -499.0 * 636.8 *
* 12630.0 * 5.9    * 221.5 * 12606.6 * -396.4 * -499.7 * 637.9 *
* 12640.0 * 5.9    * 222.0 * 12616.5 * -397.2 * -500.4 * 638.9 *
* 12650.0 * 5.9    * 222.0 * 12626.5 * -398.0 * -501.1 * 639.9 *
* 12660.0 * 6.0    * 222.0 * 12636.4 * -398.8 * -501.8 * 640.9 *
* 12670.0 * 5.9    * 221.0 * 12646.4 * -399.5 * -502.4 * 641.9 *
* 12680.0 * 5.9    * 220.0 * 12656.3 * -400.3 * -503.1 * 642.9 *
* 12690.0 * 5.9    * 220.5 * 12666.3 * -401.1 * -503.8 * 644.0 *
* 12700.0 * 6.0    * 221.0 * 12676.2 * -401.9 * -504.5 * 645.0 *
* 12710.0 * 5.9    * 222.0 * 12686.2 * -402.7 * -505.2 * 646.0 *
* 12720.0 * 5.9    * 223.0 * 12696.1 * -403.4 * -505.9 * 647.0 *
* 12730.0 * 5.9    * 227.0 * 12706.1 * -404.1 * -506.7 * 648.1 *
* 12740.0 * 6.0    * 231.0 * 12716.0 * -404.7 * -507.5 * 649.1 *
* 12750.0 * 5.9    * 224.5 * 12726.0 * -405.5 * -508.1 * 650.1 *
* 12760.0 * 5.9    * 218.0 * 12735.9 * -406.3 * -508.8 * 651.1 *
* 12770.0 * 5.9    * 218.5 * 12745.8 * -407.2 * -509.4 * 652.1 *
* 12780.0 * 6.0    * 219.0 * 12755.8 * -408.0 * -510.1 * 653.2 *
* 12790.0 * 5.9    * 219.0 * 12765.7 * -408.8 * -510.7 * 654.2 *
* 12800.0 * 5.9    * 219.0 * 12775.7 * -409.6 * -511.4 * 655.2 *
* 12810.0 * 5.9    * 219.5 * 12785.6 * -410.3 * -512.0 * 656.2 *
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*           *           *           * TRUE          * CO-ORDINATES *           *
* DEPTH    * DEVIATION * AZIMUTH  * VERTICAL    * ***** COURSE *
* FEET     * DEGREES  * DEGREES * DEPTH      * + NORTH * + EAST * LENGTH *
*           *           *           * FEET      * - SOUTH * - WEST * FEET   *
*****
* 12820.0 * 5.8 * 220.0 * 12795.6 * -411.1 * -512.7 * 657.2 *
* 12830.0 * 5.9 * 220.0 * 12805.5 * -411.9 * -513.3 * 658.2 *
* 12840.0 * 5.9 * 220.0 * 12815.5 * -412.7 * -514.0 * 659.2 *
* 12850.0 * 5.9 * 220.5 * 12825.4 * -413.5 * -514.7 * 660.2 *
* 12860.0 * 6.0 * 221.0 * 12835.4 * -414.3 * -515.4 * 661.2 *
* 12870.0 * 5.9 * 220.0 * 12845.3 * -415.1 * -516.0 * 662.2 *
* 12880.0 * 5.9 * 219.0 * 12855.3 * -415.9 * -516.7 * 663.2 *
* 12890.0 * 5.9 * 219.0 * 12865.2 * -416.7 * -517.3 * 664.2 *
* 12900.0 * 5.9 * 219.0 * 12875.2 * -417.5 * -518.0 * 665.2 *
* 12910.0 * 5.9 * 218.5 * 12885.1 * -418.3 * -518.6 * 666.3 *
* 12920.0 * 6.0 * 218.0 * 12895.0 * -419.1 * -519.2 * 667.3 *
* 12930.0 * 5.9 * 218.5 * 12905.0 * -419.9 * -519.9 * 668.3 *
* 12940.0 * 5.8 * 219.0 * 12914.9 * -420.7 * -520.5 * 669.3 *
* 12950.0 * 5.8 * 219.0 * 12924.9 * -421.5 * -521.1 * 670.2 *
* 12960.0 * 5.7 * 219.0 * 12934.8 * -422.2 * -521.8 * 671.2 *
* 12970.0 * 5.8 * 218.5 * 12944.8 * -423.0 * -522.4 * 672.2 *
* 12980.0 * 5.8 * 218.0 * 12954.7 * -423.8 * -523.0 * 673.2 *
* 12990.0 * 5.9 * 218.5 * 12964.7 * -424.6 * -523.7 * 674.2 *
* 13000.0 * 5.9 * 219.0 * 12974.6 * -425.4 * -524.3 * 675.2 *
* 13010.0 * 5.9 * 219.0 * 12984.6 * -426.2 * -524.9 * 676.2 *
* 13020.0 * 5.8 * 219.0 * 12994.5 * -427.0 * -525.6 * 677.2 *
* 13030.0 * 5.9 * 218.5 * 13004.5 * -427.8 * -526.2 * 678.2 *
* 13040.0 * 5.9 * 218.0 * 13014.4 * -428.6 * -526.8 * 679.2 *
* 13050.0 * 5.8 * 218.5 * 13024.4 * -429.4 * -527.5 * 680.1 *
* 13060.0 * 5.7 * 219.0 * 13034.3 * -430.2 * -528.1 * 681.1 *
* 13070.0 * 5.8 * 219.0 * 13044.3 * -430.9 * -528.7 * 682.1 *
* 13080.0 * 5.8 * 219.0 * 13054.2 * -431.7 * -529.4 * 683.1 *
* 13090.0 * 5.8 * 219.5 * 13064.2 * -432.5 * -530.0 * 684.1 *
* 13100.0 * 5.8 * 220.0 * 13074.1 * -433.3 * -530.7 * 685.1 *
* 13110.0 * 5.9 * 220.0 * 13084.1 * -434.1 * -531.3 * 686.1 *
* 13120.0 * 5.9 * 220.0 * 13094.0 * -434.8 * -532.0 * 687.1 *
* 13130.0 * 5.9 * 219.5 * 13104.0 * -435.6 * -532.6 * 688.1 *
* 13140.0 * 5.9 * 219.0 * 13113.9 * -436.4 * -533.3 * 689.1 *
* 13150.0 * 5.9 * 219.5 * 13123.9 * -437.2 * -533.9 * 690.1 *
* 13160.0 * 5.8 * 220.0 * 13133.8 * -438.0 * -534.6 * 691.1 *
* 13170.0 * 5.8 * 218.5 * 13143.8 * -438.8 * -535.2 * 692.1 *
* 13180.0 * 5.8 * 217.0 * 13153.7 * -439.6 * -535.8 * 693.1 *
* 13190.0 * 5.8 * 216.0 * 13163.7 * -440.4 * -536.4 * 694.0 *
* 13200.0 * 5.8 * 215.0 * 13173.6 * -441.3 * -536.9 * 695.0 *
* 13210.0 * 5.9 * 215.5 * 13183.6 * -442.1 * -537.6 * 696.0 *
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* 13240.0 * 5.8 * 216.0 * 13213.4 * -444.6 * -539.3 * 698.9 *
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* 13270.0 * 5.8 * 216.0 * 13243.2 * -447.0 * -541.1 * 701.8 *
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*      *      *      *      *      *      *      *      *      *
* DEPTH * DEVIATION * AZIMUTH * TRUE * CO-ORDINATES *      *
* FEET  * DEGREES  * DEGREES * VERTICAL * ***** COURSE *
*      *      *      *      *      *      *      *      *
*      *      *      *      *      *      *      *      *
*****
* 13280.0 * 5.8 * 217.0 * 13253.2 * -447.8 * -541.7 * 702.8 *
* 13290.0 * 5.9 * 215.0 * 13263.1 * -448.7 * -542.3 * 703.8 *
* 13300.0 * 5.9 * 213.0 * 13273.1 * -449.5 * -542.8 * 704.8 *
* 13310.0 * 5.9 * 214.5 * 13283.0 * -450.4 * -543.4 * 705.8 *
* 13320.0 * 5.9 * 216.0 * 13293.0 * -451.2 * -544.0 * 706.8 *
* 13330.0 * 5.9 * 216.0 * 13302.9 * -452.0 * -544.6 * 707.8 *
* 13340.0 * 5.9 * 216.0 * 13312.9 * -452.9 * -545.2 * 708.8 *
* 13350.0 * 5.9 * 216.0 * 13322.8 * -453.7 * -545.8 * 709.8 *
* 13360.0 * 5.9 * 216.0 * 13332.8 * -454.5 * -546.4 * 710.8 *
* 13370.0 * 5.9 * 215.5 * 13342.7 * -455.3 * -547.0 * 711.7 *
* 13380.0 * 5.8 * 215.0 * 13352.7 * -456.2 * -547.6 * 712.7 *
* 13390.0 * 5.8 * 215.0 * 13362.6 * -457.0 * -548.2 * 713.7 *
* 13400.0 * 5.8 * 215.0 * 13372.6 * -457.8 * -548.8 * 714.7 *
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* 13430.0 * 5.8 * 213.0 * 13402.4 * -460.3 * -550.4 * 717.6 *
* 13440.0 * 5.8 * 211.0 * 13412.4 * -461.2 * -551.0 * 718.5 *
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* 13470.0 * 5.9 * 214.5 * 13442.2 * -463.8 * -552.7 * 721.5 *
* 13480.0 * 5.9 * 215.0 * 13452.1 * -464.6 * -553.3 * 722.5 *
* 13490.0 * 5.9 * 216.0 * 13462.1 * -465.4 * -553.9 * 723.5 *
* 13500.0 * 5.9 * 217.0 * 13472.0 * -466.2 * -554.5 * 724.5 *
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* 13520.0 * 5.8 * 214.0 * 13491.9 * -467.9 * -555.7 * 726.4 *
* 13530.0 * 5.9 * 214.5 * 13501.9 * -468.8 * -556.3 * 727.4 *
* 13540.0 * 5.9 * 215.0 * 13511.8 * -469.6 * -556.8 * 728.4 *
* 13550.0 * 5.9 * 213.5 * 13521.8 * -470.5 * -557.4 * 729.4 *
* 13560.0 * 5.9 * 212.0 * 13531.7 * -471.3 * -557.9 * 730.4 *
* 13570.0 * 5.9 * 212.5 * 13541.7 * -472.2 * -558.5 * 731.4 *
* 13580.0 * 5.9 * 213.0 * 13551.6 * -473.1 * -559.0 * 732.3 *
* 13590.0 * 5.9 * 213.0 * 13561.6 * -473.9 * -559.6 * 733.3 *
* 13600.0 * 5.9 * 213.0 * 13571.5 * -474.8 * -560.2 * 734.3 *
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* 13640.0 * 5.9 * 215.0 * 13611.3 * -478.2 * -562.5 * 738.3 *
* 13650.0 * 5.8 * 213.0 * 13621.3 * -479.0 * -563.0 * 739.2 *
* 13660.0 * 5.7 * 211.0 * 13631.2 * -479.9 * -563.6 * 740.2 *
* 13670.0 * 5.7 * 213.0 * 13641.2 * -480.7 * -564.1 * 741.1 *
* 13680.0 * 5.7 * 215.0 * 13651.1 * -481.5 * -564.7 * 742.1 *
* 13690.0 * 5.8 * 214.5 * 13661.1 * -482.3 * -565.3 * 743.1 *
* 13700.0 * 5.8 * 214.0 * 13671.0 * -483.2 * -565.8 * 744.0 *
* 13710.0 * 5.8 * 213.5 * 13681.0 * -484.0 * -566.4 * 745.0 *
* 13720.0 * 5.8 * 213.0 * 13690.9 * -484.9 * -566.9 * 746.0 *
* 13730.0 * 5.9 * 211.5 * 13700.8 * -485.8 * -567.4 * 747.0 *
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*          *          *          *          *          *          *          *
* DEPTH * DEVIATION * AZIMUTH * TRUE * CO-ORDINATES *          *
* FEET * DEGREES * DEGREES * VERTICAL * + NORTH * + EAST * COURSE *
*          *          *          * DEPTH * - SOUTH * - WEST * LENGTH *
*          *          *          * FEET *          *          * FEET *
*****
* 13740.0 * 5.9 * 210.0 * 13710.8 * -486.6 * -567.9 * 747.9 *
* 13750.0 * 5.9 * 210.5 * 13720.7 * -487.5 * -568.5 * 748.9 *
* 13760.0 * 5.8 * 211.0 * 13730.7 * -488.4 * -569.0 * 749.8 *
* 13770.0 * 5.9 * 211.5 * 13740.6 * -489.3 * -569.5 * 750.8 *
* 13780.0 * 5.9 * 212.0 * 13750.6 * -490.1 * -570.1 * 751.8 *
* 13790.0 * 5.9 * 212.0 * 13760.5 * -491.0 * -570.6 * 752.8 *
* 13800.0 * 5.9 * 212.0 * 13770.5 * -491.9 * -571.2 * 753.8 *
* 13810.0 * 5.8 * 212.0 * 13780.4 * -492.7 * -571.7 * 754.7 *
* 13820.0 * 5.7 * 212.0 * 13790.4 * -493.6 * -572.2 * 755.7 *
* 13830.0 * 5.8 * 212.0 * 13800.3 * -494.4 * -572.8 * 756.6 *
* 13840.0 * 5.9 * 212.0 * 13810.3 * -495.3 * -573.3 * 757.6 *
* 13850.0 * 5.8 * 209.5 * 13820.2 * -496.2 * -573.8 * 758.5 *
* 13860.0 * 5.7 * 207.0 * 13830.2 * -497.1 * -574.2 * 759.5 *
* 13870.0 * 5.8 * 208.0 * 13840.1 * -498.0 * -574.7 * 760.4 *
* 13880.0 * 5.9 * 209.0 * 13850.1 * -498.9 * -575.2 * 761.4 *
* 13890.0 * 5.9 * 209.0 * 13860.0 * -499.8 * -575.7 * 762.4 *
* 13900.0 * 5.9 * 209.0 * 13870.0 * -500.7 * -576.2 * 763.3 *
* 13910.0 * 5.8 * 209.5 * 13879.9 * -501.5 * -576.7 * 764.3 *
* 13920.0 * 5.6 * 210.0 * 13889.9 * -502.4 * -577.2 * 765.2 *
* 13930.0 * 5.7 * 208.5 * 13899.8 * -503.3 * -577.6 * 766.1 *
* 13940.0 * 5.8 * 207.0 * 13909.8 * -504.2 * -578.1 * 767.1 *
* 13950.0 * 5.7 * 207.0 * 13919.7 * -505.0 * -578.5 * 768.0 *
* 13960.0 * 5.6 * 207.0 * 13929.7 * -505.9 * -579.0 * 768.9 *
* 13970.0 * 5.7 * 207.0 * 13939.6 * -506.8 * -579.4 * 769.8 *
* 13980.0 * 5.8 * 207.0 * 13949.6 * -507.7 * -579.9 * 770.7 *
* 13990.0 * 5.8 * 205.5 * 13959.5 * -508.6 * -580.3 * 771.6 *
* 14000.0 * 5.7 * 204.0 * 13969.5 * -509.5 * -580.7 * 772.5 *
* 14010.0 * 5.8 * 204.5 * 13979.4 * -510.4 * -581.1 * 773.5 *
* 14020.0 * 5.8 * 205.0 * 13989.4 * -511.3 * -581.6 * 774.4 *
* 14030.0 * 5.8 * 204.5 * 13999.3 * -512.3 * -582.0 * 775.3 *
* 14040.0 * 5.8 * 204.0 * 14009.3 * -513.2 * -582.4 * 776.2 *
* 14050.0 * 5.7 * 204.5 * 14019.2 * -514.1 * -582.8 * 777.1 *
* 14060.0 * 5.6 * 205.0 * 14029.2 * -515.0 * -583.2 * 778.0 *
* 14070.0 * 5.7 * 205.5 * 14039.1 * -515.9 * -583.7 * 779.0 *
* 14080.0 * 5.8 * 206.0 * 14049.1 * -516.8 * -584.1 * 779.9 *
* 14090.0 * 5.8 * 204.0 * 14059.0 * -517.7 * -584.5 * 780.8 *
* 14100.0 * 5.8 * 202.0 * 14069.0 * -518.6 * -584.9 * 781.7 *
* 14110.0 * 5.8 * 203.0 * 14078.9 * -519.6 * -585.3 * 782.6 *
* 14120.0 * 5.8 * 204.0 * 14088.9 * -520.5 * -585.7 * 783.5 *
* 14130.0 * 5.8 * 204.5 * 14098.8 * -521.4 * -586.1 * 784.4 *
* 14140.0 * 5.7 * 205.0 * 14108.8 * -522.3 * -586.5 * 785.4 *
* 14150.0 * 5.8 * 205.0 * 14118.7 * -523.2 * -587.0 * 786.3 *
* 14160.0 * 5.9 * 205.0 * 14128.7 * -524.2 * -587.4 * 787.2 *
* 14170.0 * 5.9 * 204.5 * 14138.6 * -525.1 * -587.8 * 788.2 *
* 14180.0 * 6.0 * 204.0 * 14148.5 * -526.1 * -588.2 * 789.2 *
* 14190.0 * 5.9 * 200.0 * 14158.5 * -527.0 * -588.5 * 790.0 *
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REF 3557.

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* DEPTH * * FEET *	* DEVIATION * * DEGREES *	* AZIMUTH * * DEGREES *	* TRUE * * VERTICAL * * DEPTH * * FEET *	* CO-ORDINATES * * + NORTH * * - SOUTH *	* + EAST * * - WEST *	* COURSE * * LENGTH * * FEET *
* 14200.0 *	5.8	* 196.0 *	* 14168.4 *	* -528.0 *	* -588.8 *	* 790.9 *
* 14210.0 *	5.8	* 199.5 *	* 14178.4 *	* -528.9 *	* -589.2 *	* 791.8 *
* 14220.0 *	5.8	* 203.0 *	* 14188.3 *	* -529.9 *	* -589.6 *	* 792.7 *
* 14230.0 *	5.9	* 205.0 *	* 14198.3 *	* -530.8 *	* -590.0 *	* 793.7 *
* 14240.0 *	5.9	* 207.0 *	* 14208.2 *	* -531.7 *	* -590.5 *	* 794.6 *
* 14250.0 *	5.9	* 204.5 *	* 14218.2 *	* -532.7 *	* -590.9 *	* 795.5 *
* 14260.0 *	5.9	* 202.0 *	* 14228.1 *	* -533.6 *	* -591.3 *	* 796.5 *
* 14270.0 *	5.8	* 202.5 *	* 14238.1 *	* -534.5 *	* -591.7 *	* 797.4 *
* 14280.0 *	5.7	* 203.0 *	* 14248.0 *	* -535.4 *	* -592.1 *	* 798.3 *
* 14290.0 *	5.8	* 202.5 *	* 14258.0 *	* -536.4 *	* -592.4 *	* 799.2 *
* 14300.0 *	5.9	* 202.0 *	* 14267.9 *	* -537.3 *	* -592.8 *	* 800.1 *
* 14310.0 *	5.9	* 202.5 *	* 14277.9 *	* -538.3 *	* -593.2 *	* 801.1 *
* 14320.0 *	6.0	* 203.0 *	* 14287.8 *	* -539.3 *	* -593.6 *	* 802.0 *
* 14330.0 *	5.9	* 201.5 *	* 14297.8 *	* -540.2 *	* -594.0 *	* 802.9 *
* 14340.0 *	5.9	* 200.0 *	* 14307.7 *	* -541.2 *	* -594.4 *	* 803.8 *
* 14350.0 *	5.9	* 200.5 *	* 14317.7 *	* -542.2 *	* -594.7 *	* 804.8 *
* 14360.0 *	5.9	* 201.0 *	* 14327.6 *	* -543.1 *	* -595.1 *	* 805.7 *
* 14370.0 *	5.9	* 202.5 *	* 14337.6 *	* -544.1 *	* -595.5 *	* 806.6 *
* 14380.0 *	5.9	* 204.0 *	* 14347.5 *	* -545.0 *	* -595.9 *	* 807.6 *
* 14390.0 *	5.9	* 203.0 *	* 14357.4 *	* -545.9 *	* -596.3 *	* 808.5 *
* 14400.0 *	5.9	* 202.0 *	* 14367.4 *	* -546.9 *	* -596.7 *	* 809.4 *
* 14410.0 *	5.9	* 202.5 *	* 14377.3 *	* -547.8 *	* -597.1 *	* 810.3 *
* 14420.0 *	5.9	* 203.0 *	* 14387.3 *	* -548.8 *	* -597.5 *	* 811.3 *
* 14430.0 *	5.9	* 202.0 *	* 14397.2 *	* -549.8 *	* -597.9 *	* 812.2 *
* 14440.0 *	6.0	* 201.0 *	* 14407.2 *	* -550.7 *	* -598.2 *	* 813.2 *
* 14450.0 *	6.0	* 202.0 *	* 14417.1 *	* -551.7 *	* -598.7 *	* 814.1 *
* 14460.0 *	6.0	* 203.0 *	* 14427.1 *	* -552.7 *	* -599.1 *	* 815.1 *
* 14470.0 *	5.7	* 205.7 *	* 14437.0 *	* -553.6 *	* -599.5 *	* 816.0 *
* 14480.0 *	5.7	* 326.7 *	* 14447.0 *	* -554.5 *	* -599.8 *	* 816.8 *
* 14490.0 *	5.7	* 305.9 *	* 14456.9 *	* -555.4 *	* -600.2 *	* 817.7 *
* 14500.0 *	5.7	* 285.2 *	* 14466.9 *	* -556.3 *	* -600.6 *	* 818.6 *
* 14510.0 *	5.6	* 264.4 *	* 14476.8 *	* -557.2 *	* -600.9 *	* 819.5 *
* 14520.0 *	5.6	* 243.6 *	* 14486.8 *	* -558.1 *	* -601.3 *	* 820.4 *
* 14530.0 *	5.6	* 222.8 *	* 14496.7 *	* -559.0 *	* -601.7 *	* 821.3 *
* 14540.0 *	5.6	* 202.0 *	* 14506.7 *	* -559.9 *	* -602.0 *	* 822.1 *
* 14550.0 *	5.7	* 201.5 *	* 14516.6 *	* -560.8 *	* -602.4 *	* 823.0 *
* 14560.0 *	5.7	* 201.0 *	* 14526.6 *	* -561.8 *	* -602.7 *	* 823.9 *
* 14570.0 *	5.8	* 200.0 *	* 14536.5 *	* -562.7 *	* -603.1 *	* 824.8 *
* 14580.0 *	5.8	* 199.0 *	* 14546.5 *	* -563.7 *	* -603.4 *	* 825.7 *
* 14590.0 *	5.9	* 199.5 *	* 14556.4 *	* -564.6 *	* -603.7 *	* 826.6 *
* 14600.0 *	5.9	* 200.0 *	* 14566.4 *	* -565.6 *	* -604.1 *	* 827.5 *
* 14610.0 *	5.9	* 199.5 *	* 14576.3 *	* -566.6 *	* -604.4 *	* 828.4 *
* 14620.0 *	5.8	* 199.0 *	* 14586.3 *	* -567.5 *	* -604.7 *	* 829.3 *
* 14630.0 *	5.9	* 198.5 *	* 14596.2 *	* -568.5 *	* -605.1 *	* 830.2 *
* 14640.0 *	5.9	* 198.0 *	* 14606.2 *	* -569.5 *	* -605.4 *	* 831.1 *
* 14650.0 *	5.9	* 198.0 *	* 14616.1 *	* -570.5 *	* -605.7 *	* 832.0 *

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*          *          *          *          *          *          *          *
* DEPTH    * DEVIATION * AZIMUTH  * TRUE      * CO-ORDINATES *          *
* FEET     * DEGREES  * DEGREES * VERTICAL * *****      * COURSE *
*          *          *          * DEPTH    * + NORTH * + EAST * LENGTH *
*          *          *          * FEET     * - SOUTH * - WEST * FEET   *
*****
* 14660.0 * 6.0 * 198.0 * 14626.1 * -571.5 * -606.0 * 833.0 *
* 14670.0 * 6.0 * 197.0 * 14636.0 * -572.5 * -606.3 * 833.9 *
* 14680.0 * 6.0 * 196.0 * 14646.0 * -573.5 * -606.6 * 834.8 *
* 14690.0 * 6.1 * 196.0 * 14655.9 * -574.5 * -606.9 * 835.7 *
* 14700.0 * 6.1 * 196.0 * 14665.8 * -575.5 * -607.2 * 836.6 *
* 14710.0 * 6.1 * 196.5 * 14675.8 * -576.5 * -607.5 * 837.5 *
* 14720.0 * 6.1 * 197.0 * 14685.7 * -577.5 * -607.8 * 838.4 *
* 14730.0 * 6.2 * 196.5 * 14695.7 * -578.6 * -608.1 * 839.4 *
* 14740.0 * 6.2 * 196.0 * 14705.6 * -579.6 * -608.4 * 840.3 *
* 14750.0 * 6.3 * 195.5 * 14715.5 * -580.7 * -608.7 * 841.2 *
* 14760.0 * 6.3 * 195.0 * 14725.5 * -581.7 * -609.0 * 842.2 *
* 14770.0 * 6.3 * 195.0 * 14735.4 * -582.8 * -609.3 * 843.1 *
* 14780.0 * 6.3 * 195.0 * 14745.4 * -583.9 * -609.5 * 844.1 *
* 14790.0 * 6.4 * 194.5 * 14755.3 * -584.9 * -609.8 * 845.0 *
* 14800.0 * 6.4 * 194.0 * 14765.2 * -586.0 * -610.1 * 845.9 *
* 14810.0 * 6.4 * 194.0 * 14775.2 * -587.1 * -610.4 * 846.9 *
* 14820.0 * 6.4 * 194.0 * 14785.1 * -588.2 * -610.6 * 847.8 *
* 14830.0 * 6.4 * 194.0 * 14795.1 * -589.3 * -610.9 * 848.8 *
* 14840.0 * 6.4 * 194.0 * 14805.0 * -590.3 * -611.2 * 849.7 *
* 14850.0 * 6.5 * 194.5 * 14814.9 * -591.5 * -611.5 * 850.7 *
* 14860.0 * 6.6 * 195.0 * 14824.9 * -592.6 * -611.8 * 851.7 *
* 14870.0 * 6.6 * 194.5 * 14834.8 * -593.7 * -612.0 * 852.7 *
* 14880.0 * 6.6 * 194.0 * 14844.7 * -594.8 * -612.3 * 853.6 *
* 14890.0 * 6.6 * 194.0 * 14854.7 * -595.9 * -612.6 * 854.6 *
* 14900.0 * 6.6 * 194.0 * 14864.6 * -597.0 * -612.9 * 855.6 *
* 14910.0 * 6.7 * 194.0 * 14874.5 * -598.2 * -613.2 * 856.6 *
* 14920.0 * 6.7 * 194.0 * 14884.5 * -599.3 * -613.4 * 857.6 *
* 14930.0 * 6.7 * 193.5 * 14894.4 * -600.4 * -613.7 * 858.6 *
* 14940.0 * 6.7 * 193.0 * 14904.3 * -601.6 * -614.0 * 859.5 *
* 14950.0 * 6.8 * 193.5 * 14914.2 * -602.7 * -614.2 * 860.6 *
* 14960.0 * 6.9 * 194.0 * 14924.2 * -603.9 * -614.5 * 861.6 *
* 14970.0 * 7.0 * 193.5 * 14934.1 * -605.1 * -614.8 * 862.6 *
* 14980.0 * 7.1 * 193.0 * 14944.0 * -606.3 * -615.1 * 863.7 *
* 14990.0 * 7.1 * 192.5 * 14953.9 * -607.5 * -615.3 * 864.7 *
* 15000.0 * 7.0 * 192.0 * 14963.9 * -608.7 * -615.6 * 865.7 *
* 15010.0 * 7.0 * 192.0 * 14973.8 * -609.9 * -615.9 * 866.7 *
* 15020.0 * 7.0 * 192.0 * 14983.7 * -611.1 * -616.1 * 867.8 *
* 15030.0 * 7.1 * 191.5 * 14993.6 * -612.3 * -616.3 * 868.8 *
* 15040.0 * 7.2 * 191.0 * 15003.6 * -613.5 * -616.6 * 869.8 *
* 15050.0 * 7.3 * 191.0 * 15013.5 * -614.8 * -616.8 * 870.9 *
* 15060.0 * 7.3 * 191.0 * 15023.4 * -616.0 * -617.1 * 871.9 *
* 15070.0 * 7.3 * 190.5 * 15033.3 * -617.3 * -617.3 * 873.0 *
* 15080.0 * 7.3 * 190.0 * 15043.2 * -618.5 * -617.5 * 874.0 *
* 15090.0 * 7.4 * 189.5 * 15053.2 * -619.8 * -617.7 * 875.1 *
* 15100.0 * 7.5 * 189.0 * 15063.1 * -621.1 * -617.9 * 876.1 *
* 15110.0 * 7.5 * 189.5 * 15073.0 * -622.4 * -618.1 * 877.2 *
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REF 3557.

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*          *          *          *          *          *          *          *
* DEPTH    * DEVIATION * AZIMUTH * TRUE      * CO-ORDINATES *          *
* FEET     * DEGREES  * DEGREES * DEPTH   * + NORTH * + EAST * COURSE *
*          *          *          * FEET    * - SOUTH * - WEST * LENGTH *
*          *          *          *          *          *          *          *
* 15120.0 * 7.5      * 190.0 * 15082.9 * -623.7 * -618.4 * 878.3 *
* 15130.0 * 7.6      * 189.5 * 15092.8 * -625.0 * -618.6 * 879.3 *
* 15140.0 * 7.6      * 189.0 * 15102.7 * -626.3 * -618.8 * 880.4 *
* 15150.0 * 7.7      * 188.5 * 15112.6 * -627.6 * -619.0 * 881.5 *
* 15160.0 * 7.7      * 188.0 * 15122.5 * -628.9 * -619.2 * 882.6 *
* 15170.0 * 7.7      * 188.0 * 15132.5 * -630.3 * -619.3 * 883.6 *
* 15180.0 * 7.7      * 188.0 * 15142.4 * -631.6 * -619.5 * 884.7 *
* 15190.0 * 7.9      * 188.0 * 15152.3 * -633.0 * -619.7 * 885.9 *
* 15200.0 * 8.1      * 188.0 * 15162.2 * -634.4 * -619.9 * 887.0 *
* 15210.0 * 8.1      * 188.0 * 15172.1 * -635.8 * -620.1 * 888.1 *
* 15220.0 * 8.0      * 188.0 * 15182.0 * -637.1 * -620.3 * 889.2 *
* 15230.0 * 8.0      * 188.0 * 15191.9 * -638.5 * -620.5 * 890.4 *
* 15240.0 * 8.0      * 188.0 * 15201.8 * -639.9 * -620.7 * 891.5 *
* 15250.0 * 8.1      * 187.5 * 15211.7 * -641.3 * -620.9 * 892.6 *
* 15260.0 * 8.1      * 187.0 * 15221.6 * -642.7 * -621.0 * 893.7 *
* 15270.0 * 8.2      * 187.0 * 15231.5 * -644.1 * -621.2 * 894.9 *
* 15280.0 * 8.2      * 187.0 * 15241.4 * -645.5 * -621.4 * 896.0 *
* 15290.0 * 8.3      * 187.0 * 15251.3 * -647.0 * -621.6 * 897.2 *
* 15300.0 * 8.3      * 187.0 * 15261.2 * -648.4 * -621.7 * 898.3 *
* 15310.0 * 8.4      * 187.0 * 15271.1 * -649.8 * -621.9 * 899.5 *
* 15320.0 * 8.4      * 187.0 * 15280.9 * -651.3 * -622.1 * 900.7 *
* 15330.0 * 8.5      * 187.0 * 15290.8 * -652.8 * -622.3 * 901.8 *
* 15340.0 * 8.5      * 187.0 * 15300.7 * -654.2 * -622.5 * 903.0 *
* 15350.0 * 8.5      * 187.0 * 15310.6 * -655.7 * -622.6 * 904.2 *
* 15360.0 * 8.4      * 187.0 * 15320.5 * -657.1 * -622.8 * 905.4 *
* 15370.0 * 8.5      * 187.0 * 15330.4 * -658.6 * -623.0 * 906.6 *
* 15380.0 * 8.6      * 187.0 * 15340.3 * -660.1 * -623.2 * 907.8 *
* 15390.0 * 8.6      * 187.0 * 15350.2 * -661.6 * -623.4 * 909.0 *
* 15400.0 * 8.6      * 187.0 * 15360.1 * -663.1 * -623.5 * 910.2 *
* 15410.0 * 8.6      * 186.5 * 15370.0 * -664.6 * -623.7 * 911.4 *
* 15420.0 * 8.6      * 186.0 * 15379.8 * -666.0 * -623.9 * 912.6 *
* 15430.0 * 8.7      * 186.0 * 15389.7 * -667.5 * -624.0 * 913.8 *
* 15440.0 * 8.7      * 186.0 * 15399.6 * -669.0 * -624.2 * 915.0 *
* 15450.0 * 8.7      * 186.5 * 15409.5 * -670.5 * -624.4 * 916.2 *
* 15460.0 * 8.7      * 187.0 * 15419.4 * -672.1 * -624.5 * 917.4 *
* 15470.0 * 8.8      * 187.0 * 15429.3 * -673.6 * -624.7 * 918.7 *
* 15480.0 * 8.9      * 187.0 * 15439.1 * -675.1 * -624.9 * 920.0 *
* 15490.0 * 9.1      * 187.0 * 15449.0 * -676.7 * -625.1 * 921.3 *
* 15500.0 * 9.2      * 187.0 * 15458.9 * -678.3 * -625.3 * 922.5 *
* 15510.0 * 9.2      * 186.5 * 15468.8 * -679.9 * -625.5 * 923.8 *
* 15520.0 * 9.2      * 186.0 * 15478.6 * -681.5 * -625.6 * 925.1 *
* 15530.0 * 9.3      * 186.0 * 15488.5 * -683.1 * -625.8 * 926.4 *
* 15540.0 * 9.4      * 186.0 * 15498.4 * -684.7 * -626.0 * 927.7 *
* 15550.0 * 9.5      * 186.0 * 15508.2 * -686.4 * -626.2 * 929.1 *
* 15560.0 * 9.5      * 186.0 * 15518.1 * -688.0 * -626.3 * 930.4 *
* 15570.0 * 9.6      * 186.5 * 15527.9 * -689.7 * -626.5 * 931.8 *
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*          *          *          * TRUE          * CO-ORDINATES          *
* DEPTH    * DEVIATION * AZIMUTH * VERTICAL ***** COURSE *
* FEET     * DEGREES  * DEGREES * DEPTH    * + NORTH * + EAST * LENGTH *
*          *          *          * FEET     * - SOUTH * - WEST * FEET   *
*****
* 15580.0 * 9.6 * 187.0 * 15537.8 * -691.3 * -626.7 * 933.1 *
* 15590.0 * 9.7 * 186.5 * 15547.7 * -693.0 * -626.9 * 934.5 *
* 15600.0 * 9.8 * 186.0 * 15557.5 * -694.7 * -627.1 * 935.9 *
* 15610.0 * 9.9 * 186.0 * 15567.4 * -696.4 * -627.3 * 937.3 *
* 15620.0 * 9.9 * 186.0 * 15577.2 * -698.1 * -627.5 * 938.7 *
* 15630.0 * 10.0 * 186.5 * 15587.1 * -699.8 * -627.7 * 940.1 *
* 15640.0 * 10.0 * 187.0 * 15596.9 * -701.6 * -627.9 * 941.5 *
* 15650.0 * 10.0 * 186.5 * 15606.8 * -703.3 * -628.1 * 942.9 *
* 15660.0 * 10.0 * 186.0 * 15616.6 * -705.0 * -628.2 * 944.3 *
* 15670.0 * 10.1 * 186.0 * 15626.4 * -706.8 * -628.4 * 945.7 *
* 15680.0 * 10.1 * 186.0 * 15636.3 * -708.5 * -628.6 * 947.2 *
* 15690.0 * 10.1 * 185.5 * 15646.1 * -710.2 * -628.8 * 948.6 *
* 15700.0 * 10.0 * 185.0 * 15656.0 * -712.0 * -628.9 * 950.0 *
* 15710.0 * 10.1 * 184.5 * 15665.8 * -713.7 * -629.0 * 951.4 *
* 15720.0 * 10.1 * 184.0 * 15675.7 * -715.5 * -629.2 * 952.7 *
* 15730.0 * 10.1 * 184.5 * 15685.5 * -717.2 * -629.3 * 954.2 *
* 15740.0 * 10.1 * 185.0 * 15695.4 * -719.0 * -629.5 * 955.6 *
* 15750.0 * 10.1 * 183.5 * 15705.2 * -720.7 * -629.5 * 956.9 *
* 15760.0 * 10.1 * 182.0 * 15715.1 * -722.5 * -629.6 * 958.3 *
* 15770.0 * 10.2 * 183.5 * 15724.9 * -724.2 * -629.7 * 959.7 *
* 15780.0 * 10.2 * 185.0 * 15734.7 * -726.0 * -629.9 * 961.2 *
* 15790.0 * 10.2 * 183.5 * 15744.6 * -727.8 * -630.0 * 962.5 *
* 15800.0 * 10.2 * 182.0 * 15754.4 * -729.5 * -630.0 * 963.9 *
* 15810.0 * 10.2 * 183.0 * 15764.3 * -731.3 * -630.1 * 965.3 *
* 15820.0 * 10.2 * 184.0 * 15774.1 * -733.1 * -630.3 * 966.8 *
* 15830.0 * 10.3 * 183.5 * 15784.0 * -734.9 * -630.4 * 968.2 *
* 15840.0 * 10.3 * 183.0 * 15793.8 * -736.6 * -630.4 * 969.6 *
* 15850.0 * 10.3 * 183.0 * 15803.6 * -738.4 * -630.5 * 971.0 *
* 15860.0 * 10.3 * 183.0 * 15813.5 * -740.2 * -630.6 * 972.4 *
* 15870.0 * 10.3 * 182.5 * 15823.3 * -742.0 * -630.7 * 973.8 *
* 15880.0 * 10.3 * 182.0 * 15833.1 * -743.8 * -630.8 * 975.2 *
* 15890.0 * 10.4 * 182.5 * 15843.0 * -745.6 * -630.9 * 976.7 *
* 15900.0 * 10.4 * 183.0 * 15852.8 * -747.4 * -630.9 * 978.1 *
* 15910.0 * 10.4 * 182.5 * 15862.7 * -749.2 * -631.0 * 979.5 *
* 15920.0 * 10.4 * 182.0 * 15872.5 * -751.0 * -631.1 * 980.9 *
* 15930.0 * 10.4 * 182.5 * 15882.3 * -752.8 * -631.2 * 982.4 *
* 15940.0 * 10.4 * 183.0 * 15892.2 * -754.6 * -631.3 * 983.8 *
* 15950.0 * 10.5 * 182.5 * 15902.0 * -756.4 * -631.3 * 985.3 *
* 15960.0 * 10.5 * 182.0 * 15911.8 * -758.2 * -631.4 * 986.7 *
* 15970.0 * 10.5 * 182.0 * 15921.7 * -760.1 * -631.5 * 988.2 *
* 15980.0 * 10.5 * 182.0 * 15931.5 * -761.9 * -631.5 * 989.6 *
* 15990.0 * 10.5 * 183.0 * 15941.3 * -763.7 * -631.6 * 991.1 *
* 16000.0 * 10.5 * 184.0 * 15951.2 * -765.5 * -631.8 * 992.6 *
* 16010.0 * 10.6 * 183.0 * 15961.0 * -767.4 * -631.8 * 994.0 *
* 16020.0 * 10.6 * 182.0 * 15970.8 * -769.2 * -631.9 * 995.5 *
* 16030.0 * 10.6 * 182.5 * 15980.6 * -771.0 * -632.0 * 997.0 *
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*          *          *          * TRUE          * CO-ORDINATES *          *
* DEPTH * DEVIATION * AZIMUTH * VERTICAL ***** COURSE *
* FEET * DEGREES * DEGREES * DEPTH * + NORTH * + EAST * LENGTH *
*          *          *          * FEET * - SOUTH * - WEST * FEET *
*****
* 16040.0 * 10.6 * 183.0 * 15990.5 * -772.9 * -632.1 * 998.4 *
* 16050.0 * 10.6 * 182.5 * 16000.3 * -774.7 * -632.2 * 999.9 *
* 16060.0 * 10.6 * 182.0 * 16010.1 * -776.6 * -632.2 * 1001.4 *
* 16070.0 * 10.7 * 182.0 * 16020.0 * -778.4 * -632.3 * 1002.9 *
* 16080.0 * 10.7 * 182.0 * 16029.8 * -780.3 * -632.4 * 1004.3 *
* 16090.0 * 10.7 * 181.5 * 16039.6 * -782.1 * -632.4 * 1005.8 *
* 16100.0 * 10.7 * 181.0 * 16049.4 * -784.0 * -632.4 * 1007.3 *
* 16110.0 * 10.7 * 182.0 * 16059.3 * -785.8 * -632.5 * 1008.8 *
* 16120.0 * 10.7 * 183.0 * 16069.1 * -787.7 * -632.6 * 1010.3 *
* 16130.0 * 10.8 * 182.5 * 16078.9 * -789.6 * -632.7 * 1011.8 *
* 16140.0 * 10.8 * 182.0 * 16088.7 * -791.4 * -632.7 * 1013.3 *
* 16150.0 * 10.8 * 182.0 * 16098.6 * -793.3 * -632.8 * 1014.8 *
* 16160.0 * 10.8 * 182.0 * 16108.4 * -795.2 * -632.9 * 1016.3 *
* 16170.0 * 10.8 * 183.0 * 16118.2 * -797.0 * -633.0 * 1017.8 *
* 16180.0 * 10.8 * 184.0 * 16128.0 * -798.9 * -633.1 * 1019.4 *
* 16190.0 * 10.9 * 183.0 * 16137.8 * -800.8 * -633.2 * 1020.9 *
* 16200.0 * 10.9 * 182.0 * 16147.7 * -802.7 * -633.3 * 1022.4 *
* 16210.0 * 10.9 * 183.0 * 16157.5 * -804.6 * -633.4 * 1024.0 *
* 16220.0 * 10.9 * 184.0 * 16167.3 * -806.5 * -633.5 * 1025.5 *
* 16230.0 * 10.9 * 184.0 * 16177.1 * -808.4 * -633.7 * 1027.1 *
* 16240.0 * 10.9 * 184.0 * 16186.9 * -810.2 * -633.8 * 1028.7 *
* 16250.0 * 11.0 * 183.0 * 16196.8 * -812.1 * -633.9 * 1030.2 *
* 16260.0 * 11.0 * 182.0 * 16206.6 * -814.1 * -633.9 * 1031.8 *
* 16270.0 * 11.0 * 182.0 * 16216.4 * -816.0 * -634.0 * 1033.3 *
* 16276.0 * 11.0 * 182.0 * 16222.3 * -817.1 * -634.0 * 1034.2 *
*****
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REF 3557.

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*****
*                                     *
*          BOTTOM HOLE LOCATION      *
*                                     *
*          COURSE LENGTH:           1034.2  FEET      *
*                                     *
*          COURSE AZIMUTH:           217.8  DEGREES    *
*                                     *
*                                     *
*          MEASURED DEPTH:           16276.0  FEET     *
*                                     *
*          TRUE VERTICAL DEPTH: 16222.3  FEET         *
*                                     *
*          DISTANCE SOUTH:           817.1  FEET       *
*                                     *
*          DISTANCE WEST:            634.0  FEET       *
*                                     *
*          TANGENTIAL METHOD          *
*                                     *
*****
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