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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
RUN NO. 4	14516 - 16276	9-MAR-80	3557

SURVEY IS TIED-IN TO SPERRY SURV 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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DEPTH FEET	* DEVIATION DEGREES	* AZIMUTH DEGREES	* TRUE VERTICAL DEPTH FEET	* CO-ORDINATES ***** * + NORTH * + EAST * - SOUTH * - WEST	* COURSE LENGTH FEET
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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

DEPTH	DEVIATION	AZIMUTH	TRUE VERTICAL	CO-ORDINATES		COURSE
FEET	DEGREES	DEGREES	DEPTH	+ NORTH	+ EAST	LENGTH
			FEET	- SOUTH	- WEST	FEET

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

DEPTH FEET	* DEVIATION DEGREES	* AZIMUTH DEGREES	* TRUE VERTICAL DEPTH FEET	* CO-ORDINATES * + NORTH * - SOUTH * + EAST * - WEST *	* COURSE LENGTH FEET
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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

DEPTH	DEVIATION	AZIMUTH	TRUE	CO-ORDINATES	COURSE
FEET	DEGREES	DEGREES	VERTICAL	+ NORTH	+ EAST
			DEPTH	- SOUTH	- WEST
			FEET		LENGTH
					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

DEPTH FEET	DEVIATION DEGREES	AZIMUTH DEGREES	TRUE VERTICAL DEPTH FEET	CO-ORDINATES	COURSE LENGTH FEET
				+ NORTH * + EAST * - SOUTH * - WEST *	

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

DEPTH FEET	DEVIATION DEGREES	AZIMUTH DEGREES	TRUE VERTICAL DEPTH FEET	CO-ORDINATES + NORTH - SOUTH	+ EAST - WEST	COURSE LENGTH FEET
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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

F 3557.

DEPTH	DEVIATION	AZIMUTH	TRUE	VERTICAL	CO-ORDINATES		COURSE
FEET	DEGREES	DEGREES		DEPTH	+ NORTH	+ EAST	LENGTH
				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

DEPTH FEET	DEVIATION DEGREES	AZIMUTH DEGREES	TRUE VERTICAL DEPTH FEET	CO-ORDINATES + NORTH - SOUTH	+ EAST - WEST	COURSE LENGTH FEET
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

DEPTH	DEVIATION	AZIMUTH	TRUE	CO-ORDINATES		COURSE	
FEET	DEGREES	DEGREES	VERTICAL	+ NORTH	+ EAST	* LENGTH	* COURSE
			DEPTH	* - SOUTH	* - WEST	* 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	

DEPTH	DEVIATION	AZIMUTH	TRUE	CO-ORDINATES	COURSE	
FEET	DEGREES	DEGREES	VERTICAL	+ NORTH	+ EAST	LENGTH
			DEPTH	- SOUTH	- WEST	FEET

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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K	* DEPTH * FEET	* DEVIATION * DEGREES	* AZIMUTH * DEGREES	* TRUE * VERTICAL * DEPTH * FEET	* CO-ORDINATES * + NORTH * - SOUTH * + EAST * - WEST	* COURSE * LENGTH * FEET
K	11440.0	5.7	233.0	11422.7	-316.7 -410.0	518.1
K	11450.0	5.8	235.5	11432.7	-317.3 -410.9	519.1
K	11460.0	5.8	238.0	11442.6	-317.8 -411.7	520.1
K	11470.0	5.8	234.0	11452.6	-318.4 -412.5	521.1
K	11480.0	5.8	230.0	11462.5	-319.1 -413.3	522.1
K	11490.0	5.9	231.5	11472.4	-319.7 -414.1	523.2
K	11500.0	5.9	233.0	11482.4	-320.3 -414.9	524.2
K	11510.0	5.9	232.0	11492.3	-321.0 -415.7	525.2
K	11520.0	5.8	231.0	11502.3	-321.6 -416.5	526.2
K	11530.0	5.8	230.5	11512.2	-322.2 -417.3	527.2
K	11540.0	5.7	230.0	11522.2	-322.9 -418.0	528.2
K	11550.0	5.6	229.5	11532.1	-323.5 -418.8	529.2
K	11560.0	5.5	229.0	11542.1	-324.1 -419.5	530.1
K	11570.0	5.6	229.5	11552.1	-324.8 -420.2	531.1
K	11580.0	5.7	230.0	11562.0	-325.4 -421.0	532.1
K	11590.0	5.8	229.5	11572.0	-326.1 -421.8	533.1
K	11600.0	5.9	229.0	11581.9	-326.8 -422.6	534.2
K	11610.0	5.8	229.5	11591.8	-327.4 -423.3	535.1
K	11620.0	5.7	230.0	11601.8	-328.0 -424.1	536.1
K	11630.0	5.7	229.5	11611.8	-328.7 -424.8	537.1
K	11640.0	5.7	229.0	11621.7	-329.3 -425.6	538.1
K	11650.0	5.7	229.0	11631.7	-330.0 -426.3	539.1
K	11660.0	5.7	229.0	11641.6	-330.6 -427.1	540.1
K	11670.0	5.7	229.5	11651.6	-331.3 -427.8	541.1
K	11680.0	5.7	230.0	11661.5	-331.9 -428.6	542.1
K	11690.0	5.7	229.0	11671.5	-332.6 -429.3	543.1
K	11700.0	5.7	228.0	11681.4	-333.2 -430.1	544.1
K	11710.0	5.8	228.0	11691.4	-333.9 -430.8	545.1
K	11720.0	5.9	228.0	11701.3	-334.6 -431.6	546.1
K	11730.0	5.9	229.0	11711.2	-335.3 -432.4	547.1
K	11740.0	5.8	230.0	11721.2	-335.9 -433.1	548.1
K	11750.0	5.8	235.0	11731.1	-336.4 -434.0	549.1
K	11760.0	5.7	240.0	11741.1	-336.9 -434.9	550.1
K	11770.0	5.7	237.0	11751.0	-337.5 -435.7	551.1
K	11780.0	5.6	234.0	11761.0	-338.1 -436.4	552.1
K	11790.0	5.7	232.5	11771.0	-338.7 -437.2	553.1
K	11800.0	5.8	231.0	11780.9	-339.3 -438.0	554.1
K	11810.0	5.8	232.0	11790.8	-339.9 -438.8	555.1
K	11820.0	5.7	233.0	11800.8	-340.5 -439.6	556.1
K	11830.0	5.6	234.0	11810.8	-341.1 -440.4	557.0
K	11840.0	5.5	235.0	11820.7	-341.6 -441.2	558.0
K	11850.0	5.7	233.0	11830.7	-342.3 -442.0	559.0
K	11860.0	5.8	231.0	11840.6	-342.9 -442.7	560.0
K	11870.0	5.8	228.0	11850.6	-343.6 -443.4	561.0
K	11880.0	5.7	225.0	11860.5	-344.3 -444.1	562.0
K	11890.0	5.7	227.5	11870.5	-344.9 -444.9	563.0

* DEPTH	* DEVIATION	* AZIMUTH	* TRUE	* CO-ORDINATES		* COURSE
* FEET	* DEGREES	* DEGREES	* VERTICAL	* + NORTH	* + EAST	* LENGTH
*	*	*	* DEPTH	* - SOUTH	* - WEST	* FEET

* 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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*          *          *          * TRUE          * CO-ORDINATES *          *
* DEPTH    * DEVIATION * AZIMUTH * VERTICAL * ***** * COURSE *
* FEET     * DEGREES  * DEGREES * 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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* DEPTH	* DEVIATION	* AZIMUTH	* TRUE	* CO-ORDINATES	* COURSE
* FEET	* DEGREES	* DEGREES	* VERTICAL	* + NORTH * + EAST	* LENGTH
			* DEPTH	* - SOUTH * - WEST	* FEET
			* 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
* 13220.0	* 5.9	* 216.0	* 13193.5	* -442.9 * -538.2	* 697.0
* 13230.0	* 5.9	* 216.0	* 13203.4	* -443.7 * -538.8	* 698.0
* 13240.0	* 5.8	* 216.0	* 13213.4	* -444.6 * -539.3	* 698.9
* 13250.0	* 5.8	* 215.5	* 13223.3	* -445.4 * -539.9	* 699.9
* 13260.0	* 5.7	* 215.0	* 13233.3	* -446.2 * -540.5	* 700.9
* 13270.0	* 5.8	* 216.0	* 13243.2	* -447.0 * -541.1	* 701.8

* DEPTH	* DEVIATION	* AZIMUTH	* TRUE	* CO-ORDINATES	*****				
* FEET	* DEGREES	* DEGREES	* VERTICAL	* NORTH	* EAST	* SOUTH	* WEST	* COURSE	* LENGTH
			* DEPTH	* + NORTH	* + EAST	* - SOUTH	* - WEST	* FEET	

* 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	* *	* *	* *
* 13410.0	* 5.8	* 215.0	* 13382.5	* -458.7	* -549.3	* 715.6	* *	* *	* *
* 13420.0	* 5.8	* 215.0	* 13392.5	* -459.5	* -549.9	* 716.6	* *	* *	* *
* 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	* *	* *	* *
* 13450.0	* 5.9	* 212.5	* 13422.3	* -462.1	* -551.5	* 719.5	* *	* *	* *
* 13460.0	* 5.9	* 214.0	* 13432.3	* -462.9	* -552.1	* 720.5	* *	* *	* *
* 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	* *	* *	* *
* 13510.0	* 5.9	* 215.5	* 13482.0	* -467.1	* -555.1	* 725.5	* *	* *	* *
* 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	* *	* *	* *
* 13610.0	* 5.9	* 214.0	* 13581.5	* -475.6	* -560.8	* 735.3	* *	* *	* *
* 13620.0	* 5.9	* 215.0	* 13591.4	* -476.5	* -561.3	* 736.3	* *	* *	* *
* 13630.0	* 5.9	* 215.0	* 13601.4	* -477.3	* -561.9	* 737.3	* *	* *	* *
* 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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*          *          *          * TRUE          *          *          *          *
* DEPTH   * DEVIATION * AZIMUTH * VERTICAL * CO-ORDINATES * COURSE *
* FEET    * DEGREES  * DEGREES * DEPTH   * + NORTH * + EAST * LENGTH *
*          *          *          * FEET    * - SOUTH * - WEST * 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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* DEPTH	* DEVIATION	* AZIMUTH	* TRUE	* CO-ORDINATES		* COURSE
* FEET	* DEGREES	* DEGREES	* VERTICAL	* + NORTH	* + EAST	* LENGTH

			* DEPTH	* - SOUTH	* - WEST	* 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

* DEPTH	* DEVIATION	* AZIMUTH	* TRUE	* CO-ORDINATES	* COURSE
* FEET	* DEGREES	* DEGREES	* VERTICAL	* + NORTH * + EAST * - SOUTH * - WEST	* LENGTH
* * * *	* * * *	* * * *	* DEPTH	* FEET	* 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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*          *          *          * TRUE          *          *          *          *
* DEPTH    * DEVIATION * AZIMUTH * VERTICAL * 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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* 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 *
* * * * *
