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

DAVID FASKEN

CONSOLIDATED STATE A # 1

MIDWAY DEVONIAN

LEA COUNTY, NEW MEXICO

RUN NO. 1 4385 - 11922

JANUARY 17, 1982

TOP INTERVAL 4385

TANGENTIAL METHOD

REFERENCE JOB 5043.

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TANGENTIAL METHOD

REFERENCE JOB 5043.

MEAS. DEPTH FT	DEVIATION DEGREES	AZIMUTH DEGREES	TRUE VERTICAL DEPTH FT	CO-ORDINATES + NORTH - SOUTH	+ EAST - WEST	COURSE LENGTH FT
4385.0	0.5	153	4385.0	0.0	0.0	0.0
4394.0	0.5	153	4394.0	-0.1	0.0	0.1
4400.0	0.5	157	4400.0	-0.1	0.1	0.1
4410.0	0.6	160	4410.0	-0.2	0.1	0.2
4420.0	0.6	162	4420.0	-0.3	0.1	0.3
4430.0	0.6	164	4430.0	-0.4	0.2	0.4
4440.0	0.6	165	4440.0	-0.5	0.2	0.5
4450.0	0.6	164	4450.0	-0.6	0.2	0.7
4460.0	0.6	163	4460.0	-0.7	0.2	0.8
4470.0	0.6	165	4470.0	-0.8	0.3	0.9
4480.0	0.6	166	4480.0	-0.9	0.3	1.0
4490.0	0.6	164	4490.0	-1.0	0.3	1.1
4500.0	0.6	162	4500.0	-1.1	0.4	1.2
4510.0	0.7	164	4510.0	-1.2	0.4	1.3
4520.0	0.7	166	4520.0	-1.4	0.4	1.4
4530.0	0.7	160	4530.0	-1.5	0.5	1.5
4540.0	0.6	153	4540.0	-1.5	0.5	1.6
4550.0	0.7	152	4550.0	-1.7	0.6	1.7
4560.0	0.7	151	4560.0	-1.8	0.6	1.9
4570.0	0.7	147	4570.0	-1.9	0.7	2.0
4580.0	0.7	142	4580.0	-2.0	0.8	2.1
4590.0	0.7	150	4590.0	-2.1	0.8	2.2
4600.0	0.7	158	4600.0	-2.2	0.9	2.3
4610.0	0.7	156	4610.0	-2.3	0.9	2.5
4620.0	0.7	154	4620.0	-2.4	1.0	2.6
4630.0	0.7	152	4630.0	-2.5	1.0	2.7
4640.0	0.7	150	4640.0	-2.6	1.1	2.8
4650.0	0.8	152	4650.0	-2.7	1.2	3.0
4660.0	0.8	154	4660.0	-2.9	1.2	3.1
4670.0	0.8	154	4670.0	-3.0	1.3	3.3
4680.0	0.8	154	4680.0	-3.1	1.3	3.4
4690.0	0.8	153	4690.0	-3.2	1.4	3.5
4700.0	0.8	151	4700.0	-3.4	1.5	3.7
4710.0	0.8	154	4710.0	-3.5	1.5	3.8
4720.0	0.8	157	4720.0	-3.6	1.6	3.9
4730.0	0.9	153	4730.0	-3.8	1.7	4.1
4740.0	0.9	149	4740.0	-3.9	1.7	4.3
4750.0	0.9	148	4750.0	-4.0	1.8	4.4
4760.0	0.9	147	4760.0	-4.2	1.9	4.6
4770.0	0.9	149	4770.0	-4.3	2.0	4.7
4780.0	0.8	150	4780.0	-4.4	2.0	4.9
4790.0	0.9	146	4790.0	-4.5	2.1	5.0
4800.0	0.9	141	4800.0	-4.7	2.2	5.2
4810.0	0.9	139	4810.0	-4.8	2.3	5.3
4820.0	0.9	137	4820.0	-4.9	2.4	5.5
4830.0	1.0	140	4830.0	-5.0	2.5	5.6

MEAS. DEPTH FT	DEVIATION DEGREES	AZIMUTH DEGREES	TRUE VERTICAL DEPTH FT	CO-ORDINATES + NORTH - SOUTH	+ EAST - WEST	COURSE LENGTH FT
4840.0	1.0	143	4840.0	-5.2	2.7	5.8
4850.0	1.0	145	4850.0	-5.3	2.7	6.0
4860.0	0.9	147	4860.0	-5.4	2.8	6.1
4870.0	0.9	149	4870.0	-5.5	2.9	6.3
4880.0	0.8	150	4880.0	-5.7	3.0	6.4
4890.0	0.8	154	4890.0	-5.8	3.0	6.5
4900.0	0.8	158	4900.0	-5.9	3.1	6.7
4910.0	0.9	156	4910.0	-6.1	3.2	6.8
4920.0	0.9	153	4920.0	-6.2	3.2	7.0
4930.0	0.9	153	4930.0	-6.3	3.3	7.1
4940.0	0.9	153	4940.0	-6.5	3.4	7.3
4950.0	0.9	154	4949.9	-6.6	3.4	7.4
4960.0	0.8	155	4959.9	-6.7	3.5	7.6
4970.0	0.9	155	4969.9	-6.9	3.6	7.7
4980.0	0.9	155	4979.9	-7.0	3.6	7.9
4990.0	0.9	153	4989.9	-7.1	3.7	8.1
5000.0	0.9	150	4999.9	-7.3	3.8	8.2
5010.0	1.0	150	5009.9	-7.4	3.9	8.4
5020.0	1.0	150	5019.9	-7.6	4.0	8.6
5030.0	1.0	148	5029.9	-7.7	4.0	8.7
5040.0	1.0	145	5039.9	-7.9	4.1	8.9
5050.0	1.0	145	5049.9	-8.0	4.2	9.1
5060.0	1.0	144	5059.9	-8.2	4.3	9.3
5070.0	1.0	143	5069.9	-8.3	4.4	9.4
5080.0	1.0	141	5079.9	-8.4	4.6	9.6
5090.0	1.0	139	5089.9	-8.6	4.7	9.8
5100.0	1.0	136	5099.9	-8.7	4.8	9.9
5110.0	1.0	135	5109.9	-8.8	4.9	10.1
5120.0	0.9	133	5119.9	-8.9	5.0	10.2
5130.0	0.9	133	5129.9	-9.0	5.1	10.4
5140.0	0.9	132	5139.9	-9.1	5.2	10.5
5150.0	0.9	134	5149.9	-9.2	5.4	10.7
5160.0	0.9	136	5159.9	-9.4	5.5	10.8
5170.0	0.9	137	5169.9	-9.5	5.6	11.0
5180.0	0.9	137	5179.9	-9.6	5.7	11.1
5190.0	0.9	139	5189.9	-9.7	5.8	11.3
5200.0	0.9	140	5199.9	-9.8	5.9	11.5
5210.0	0.9	142	5209.9	-9.9	6.0	11.6
5220.0	0.9	143	5219.9	-10.1	6.1	11.8
5230.0	1.0	139	5229.9	-10.2	6.2	11.9
5240.0	1.0	135	5239.9	-10.3	6.3	12.1
5250.0	1.0	136	5249.9	-10.4	6.4	12.3
5260.0	0.9	136	5259.9	-10.6	6.5	12.4
5270.0	0.9	137	5269.9	-10.7	6.6	12.6
5280.0	0.9	138	5279.9	-10.8	6.7	12.7
5290.0	1.0	138	5289.9	-10.9	6.9	12.9

MEAS. DEPTH FT	DEVIATION DEGREES	AZIMUTH DEGREES	TRUE VERTICAL DEPTH FT	CO-ORDINATES + NORTH - SOUTH	+ EAST - WEST	COURSE LENGTH FT
5300.0	1.0	137	5299.9	-11.0	7.0	13.1
5310.0	1.0	139	5309.9	-11.2	7.1	13.2
5320.0	1.0	140	5319.9	-11.3	7.2	13.4
5330.0	1.0	139	5329.9	-11.4	7.3	13.6
5340.0	1.0	138	5339.9	-11.6	7.4	13.8
5350.0	1.0	140	5349.9	-11.7	7.6	13.9
5360.0	1.0	142	5359.9	-11.8	7.7	14.1
5370.0	1.0	141	5369.9	-12.0	7.8	14.3
5380.0	0.9	140	5379.9	-12.1	7.9	14.4
5390.0	0.9	141	5389.9	-12.2	8.0	14.6
5400.0	0.9	141	5399.9	-12.3	8.1	14.7
5410.0	0.9	142	5409.9	-12.4	8.2	14.9
5420.0	0.9	143	5419.9	-12.6	8.3	15.0
5430.0	0.9	140	5429.9	-12.7	8.4	15.2
5440.0	0.9	137	5439.9	-12.8	8.5	15.4
5450.0	0.9	140	5449.9	-12.9	8.6	15.5
5460.0	0.9	142	5459.9	-13.0	8.7	15.7
5470.0	1.0	145	5469.9	-13.2	8.8	15.8
5480.0	1.0	147	5479.9	-13.3	8.9	16.0
5490.0	1.0	144	5489.9	-13.5	9.0	16.2
5500.0	1.0	140	5499.9	-13.6	9.1	16.4
5510.0	1.0	137	5509.9	-13.7	9.2	16.5
5520.0	1.0	133	5519.9	-13.9	9.3	16.7
5530.0	1.0	134	5529.9	-14.0	9.5	16.9
5540.0	1.1	135	5539.9	-14.1	9.6	17.1
5550.0	1.0	131	5549.9	-14.2	9.7	17.2
5560.0	1.0	126	5559.9	-14.4	9.9	17.4
5570.0	1.0	129	5569.9	-14.5	10.0	17.6
5580.0	1.0	132	5579.9	-14.6	10.1	17.8
5590.0	1.0	130	5589.9	-14.7	10.3	17.9
5600.0	1.0	128	5599.9	-14.8	10.4	18.1
5610.0	1.0	129	5609.9	-14.9	10.5	18.3
5620.0	1.0	130	5619.9	-15.0	10.7	18.4
5630.0	1.0	133	5629.9	-15.1	10.8	18.6
5640.0	1.0	135	5639.9	-15.3	10.9	18.8
5650.0	1.0	135	5649.9	-15.4	11.0	18.9
5660.0	0.9	135	5659.9	-15.5	11.1	19.1
5670.0	1.0	135	5669.8	-15.6	11.3	19.2
5680.0	1.0	134	5679.8	-15.7	11.4	19.4
5690.0	1.0	134	5689.8	-15.8	11.5	19.6
5700.0	1.0	134	5699.8	-16.0	11.6	19.8
5710.0	1.0	135	5709.8	-16.1	11.8	19.9
5720.0	1.0	135	5719.8	-16.2	11.9	20.1
5730.0	1.0	134	5729.8	-16.3	12.0	20.3
5740.0	1.0	133	5739.8	-16.5	12.1	20.5
5750.0	1.0	132	5749.8	-16.6	12.3	20.6

MEAS. DEPTH FT	DEVIATION DEGREES	AZIMUTH DEGREES	TRUE VERTICAL DEPTH FT	CO-ORDINATES + NORTH - SOUTH	+ EAST - WEST	COURSE LENGTH FT
5760.0	1.0	131	5759.8	-16.7	12.4	20.8
5770.0	1.0	131	5769.8	-16.8	12.5	20.9
5780.0	0.9	131	5779.8	-16.9	12.6	21.1
5790.0	1.0	131	5789.8	-17.0	12.8	21.3
5800.0	1.0	131	5799.8	-17.1	12.9	21.4
5810.0	1.0	133	5809.8	-17.2	13.0	21.6
5820.0	0.9	134	5819.8	-17.3	13.1	21.8
5830.0	0.9	133	5829.8	-17.4	13.2	21.9
5840.0	0.8	132	5839.8	-17.5	13.3	22.0
5850.0	0.9	130	5849.8	-17.6	13.5	22.2
5860.0	0.9	127	5859.8	-17.7	13.6	22.3
5870.0	0.9	127	5869.8	-17.8	13.7	22.5
5880.0	0.9	126	5879.8	-17.9	13.8	22.6
5890.0	0.9	129	5889.8	-18.0	14.0	22.8
5900.0	0.9	131	5899.8	-18.1	14.1	22.9
5910.0	1.0	128	5909.8	-18.2	14.2	23.1
5920.0	1.0	124	5919.8	-18.3	14.4	23.3
5930.0	1.0	122	5929.8	-18.4	14.5	23.4
5940.0	1.0	119	5939.8	-18.5	14.7	23.6
5950.0	1.0	117	5949.8	-18.6	14.8	23.8
5960.0	1.0	115	5959.8	-18.7	15.0	23.9
5970.0	1.0	115	5969.8	-18.7	15.1	24.1
5980.0	1.0	114	5979.8	-18.8	15.3	24.2
5990.0	1.0	116	5989.8	-18.9	15.4	24.4
6000.0	1.0	117	5999.8	-19.0	15.6	24.5
6010.0	1.0	117	6009.8	-19.0	15.8	24.7
6020.0	1.0	117	6019.8	-19.1	15.9	24.9
6030.0	1.0	117	6029.8	-19.2	16.1	25.0
6040.0	1.0	117	6039.8	-19.3	16.2	25.2
6050.0	1.0	116	6049.8	-19.3	16.4	25.4
6060.0	1.0	115	6059.8	-19.4	16.5	25.5
6070.0	1.0	112	6069.8	-19.5	16.7	25.7
6080.0	1.0	108	6079.8	-19.6	16.9	25.8
6090.0	1.0	106	6089.8	-19.6	17.0	26.0
6100.0	1.0	104	6099.8	-19.6	17.2	26.1
6110.0	1.0	105	6109.8	-19.7	17.4	26.3
6120.0	1.0	105	6119.8	-19.7	17.5	26.4
6130.0	1.0	105	6129.8	-19.8	17.7	26.5
6140.0	1.0	104	6139.8	-19.8	17.9	26.7
6150.0	1.0	106	6149.8	-19.9	18.0	26.8
6160.0	0.9	108	6159.8	-19.9	18.2	27.0
6170.0	1.0	105	6169.8	-20.0	18.3	27.1
6180.0	1.0	102	6179.8	-20.0	18.5	27.3
6190.0	1.0	102	6189.8	-20.0	18.7	27.4
6200.0	0.9	101	6199.8	-20.1	18.8	27.5
6210.0	0.9	101	6209.8	-20.1	19.0	27.6

MEAS. DEPTH FT	DEVIATION DEGREES	AZIMUTH DEGREES	TRUE VERTICAL DEPTH FT	CO-ORDINATES + NORTH - SOUTH	+ EAST - WEST	COURSE LENGTH FT
6220.0	0.9	101	6219.8	-20.1	19.1	27.8
6230.0	0.9	102	6229.8	-20.2	19.3	27.9
6240.0	0.9	102	6239.8	-20.2	19.4	28.0
6250.0	0.9	104	6249.8	-20.2	19.6	28.1
6260.0	0.8	105	6259.8	-20.2	19.7	28.3
6270.0	0.8	104	6269.8	-20.3	19.8	28.4
6280.0	0.8	103	6279.8	-20.3	20.0	28.5
6290.0	0.8	104	6289.8	-20.3	20.1	28.6
6300.0	0.7	105	6299.8	-20.4	20.2	28.7
6310.0	0.7	105	6309.8	-20.4	20.3	28.8
6320.0	0.7	105	6319.8	-20.4	20.5	28.9
6330.0	0.7	103	6329.8	-20.5	20.6	29.0
6340.0	0.7	101	6339.8	-20.5	20.7	29.1
6350.0	0.7	104	6349.8	-20.5	20.8	29.2
6360.0	0.7	107	6359.8	-20.6	20.9	29.3
6370.0	0.7	107	6369.8	-20.6	21.0	29.4
6380.0	0.7	107	6379.8	-20.6	21.2	29.5
6390.0	0.7	106	6389.8	-20.7	21.3	29.7
6400.0	0.7	105	6399.8	-20.7	21.4	29.8
6410.0	0.7	105	6409.8	-20.7	21.5	29.9
6420.0	0.7	104	6419.8	-20.8	21.6	30.0
6430.0	0.7	103	6429.8	-20.8	21.8	30.1
6440.0	0.7	101	6439.8	-20.8	21.9	30.2
6450.0	0.7	98	6449.8	-20.8	22.0	30.3
6460.0	0.7	94	6459.8	-20.8	22.1	30.4
6470.0	0.7	92	6469.8	-20.8	22.2	30.5
6480.0	0.7	90	6479.8	-20.8	22.4	30.6
6490.0	0.8	90	6489.7	-20.8	22.5	30.7
6500.0	0.8	89	6499.7	-20.8	22.6	30.8
6510.0	0.8	88	6509.7	-20.8	22.8	30.9
6520.0	0.7	87	6519.7	-20.8	22.9	30.9
6530.0	0.7	87	6529.7	-20.8	23.0	31.0
6540.0	0.7	87	6539.7	-20.8	23.1	31.1
6550.0	0.8	86	6549.7	-20.8	23.3	31.2
6560.0	0.8	85	6559.7	-20.8	23.4	31.3
6570.0	0.8	80	6569.7	-20.8	23.5	31.4
6580.0	0.8	74	6579.7	-20.8	23.7	31.5
6590.0	0.8	69	6589.7	-20.7	23.8	31.5
6600.0	0.8	64	6599.7	-20.7	23.9	31.6
6610.0	0.8	66	6609.7	-20.6	24.1	31.7
6620.0	0.8	68	6619.7	-20.5	24.2	31.7
6630.0	0.8	73	6629.7	-20.5	24.3	31.8
6640.0	0.8	77	6639.7	-20.5	24.5	31.9
6650.0	0.8	75	6649.7	-20.4	24.6	32.0
6660.0	0.7	73	6659.7	-20.4	24.7	32.0
6670.0	0.8	74	6669.7	-20.4	24.8	32.1

MEAS. DEPTH FT	DEVIATION DEGREES	AZIMUTH DEGREES	TRUE VERTICAL DEPTH FT	CO-ORDINATES + NORTH - SOUTH	+ EAST - WEST	COURSE LENGTH FT
6680.0	0.8	74	6679.7	-20.3	25.0	32.2
6690.0	0.8	75	6689.7	-20.3	25.1	32.3
6700.0	0.8	76	6699.7	-20.2	25.2	32.3
6710.0	0.9	76	6709.7	-20.2	25.4	32.4
6720.0	0.9	76	6719.7	-20.2	25.5	32.5
6730.0	0.9	69	6729.7	-20.1	25.7	32.6
6740.0	0.8	62	6739.7	-20.1	25.8	32.7
6750.0	0.9	63	6749.7	-20.0	25.9	32.7
6760.0	0.9	63	6759.7	-19.9	26.1	32.8
6770.0	0.9	64	6769.7	-19.9	26.2	32.9
6780.0	0.8	64	6779.7	-19.8	26.3	32.9
6790.0	0.8	64	6789.7	-19.7	26.5	33.0
6800.0	0.8	64	6799.7	-19.7	26.6	33.1
6810.0	0.8	62	6809.7	-19.6	26.7	33.1
6820.0	0.8	59	6819.7	-19.5	26.8	33.2
6830.0	0.8	59	6829.7	-19.5	26.9	33.2
6840.0	0.8	59	6839.7	-19.4	27.1	33.3
6850.0	0.8	67	6849.7	-19.3	27.2	33.4
6860.0	0.8	74	6859.7	-19.3	27.3	33.4
6870.0	0.8	71	6869.7	-19.2	27.4	33.5
6880.0	0.7	67	6879.7	-19.2	27.5	33.6
6890.0	0.7	69	6889.7	-19.2	27.7	33.6
6900.0	0.7	71	6899.7	-19.1	27.8	33.7
6910.0	0.7	75	6909.7	-19.1	27.9	33.8
6920.0	0.7	78	6919.7	-19.1	28.0	33.9
6930.0	0.7	73	6929.7	-19.0	28.1	33.9
6940.0	0.7	67	6939.7	-19.0	28.2	34.0
6950.0	0.7	73	6949.7	-18.9	28.3	34.1
6960.0	0.6	78	6959.7	-18.9	28.4	34.2
6970.0	0.7	77	6969.7	-18.9	28.6	34.2
6980.0	0.7	77	6979.7	-18.9	28.7	34.3
6990.0	0.7	76	6989.7	-18.8	28.8	34.4
7000.0	0.7	76	6999.7	-18.8	28.9	34.5
7010.0	0.7	75	7009.7	-18.8	29.0	34.6
7020.0	0.7	75	7019.7	-18.7	29.2	34.7
7030.0	0.7	77	7029.7	-18.7	29.3	34.7
7040.0	0.7	79	7039.7	-18.7	29.4	34.8
7050.0	0.7	79	7049.7	-18.7	29.5	34.9
7060.0	0.7	79	7059.7	-18.6	29.6	35.0
7070.0	0.8	82	7069.7	-18.6	29.8	35.1
7080.0	0.8	84	7079.7	-18.6	29.9	35.2
7090.0	0.8	83	7089.7	-18.6	30.0	35.3
7100.0	0.7	81	7099.7	-18.6	30.2	35.4
7110.0	0.7	82	7109.7	-18.5	30.3	35.5
7120.0	0.7	82	7119.7	-18.5	30.4	35.6
7130.0	0.7	81	7129.7	-18.5	30.5	35.7

MEAS. DEPTH FT	DEVIATION DEGREES	AZIMUTH DEGREES	TRUE VERTICAL DEPTH FT	CO-ORDINATES + NORTH - SOUTH	+ EAST - WEST	COURSE LENGTH FT
7140.0	0.6	79	7139.7	-18.5	30.6	35.8
7150.0	0.7	75	7149.7	-18.5	30.7	35.8
7160.0	0.7	70	7159.7	-18.4	30.8	35.9
7170.0	0.7	71	7169.7	-18.4	30.9	36.0
7180.0	0.6	71	7179.7	-18.4	31.0	36.1
7190.0	0.7	70	7189.7	-18.3	31.1	36.1
7200.0	0.7	69	7199.7	-18.3	31.3	36.2
7210.0	0.7	68	7209.7	-18.2	31.4	36.3
7220.0	0.7	67	7219.7	-18.2	31.5	36.4
7230.0	0.7	66	7229.7	-18.1	31.6	36.4
7240.0	0.7	64	7239.7	-18.1	31.7	36.5
7250.0	0.7	68	7249.7	-18.0	31.8	36.6
7260.0	0.7	71	7259.7	-18.0	31.9	36.7
7270.0	0.7	71	7269.7	-18.0	32.1	36.7
7280.0	0.7	71	7279.7	-17.9	32.2	36.8
7290.0	0.7	63	7289.7	-17.9	32.3	36.9
7300.0	0.7	54	7299.7	-17.8	32.4	37.0
7310.0	0.7	55	7309.7	-17.7	32.5	37.0
7320.0	0.7	56	7319.7	-17.7	32.6	37.1
7330.0	0.8	56	7329.7	-17.6	32.7	37.1
7340.0	0.8	55	7339.7	-17.5	32.8	37.2
7350.0	0.8	51	7349.7	-17.4	32.9	37.2
7360.0	0.8	47	7359.7	-17.3	33.0	37.3
7370.0	0.8	49	7369.7	-17.2	33.1	37.3
7380.0	0.8	50	7379.7	-17.1	33.2	37.4
7390.0	0.8	51	7389.7	-17.1	33.3	37.5
7400.0	0.8	51	7399.7	-17.0	33.5	37.5
7410.0	0.8	48	7409.7	-16.9	33.6	37.6
7420.0	0.8	44	7419.7	-16.8	33.7	37.6
7430.0	0.8	42	7429.7	-16.7	33.8	37.6
7440.0	0.8	39	7439.7	-16.6	33.8	37.7
7450.0	0.9	36	7449.7	-16.4	33.9	37.7
7460.0	0.9	33	7459.7	-16.3	34.0	37.7
7470.0	1.0	33	7469.7	-16.2	34.1	37.8
7480.0	1.0	33	7479.7	-16.0	34.2	37.8
7490.0	1.0	32	7489.7	-15.9	34.3	37.8
7500.0	1.0	30	7499.7	-15.7	34.4	37.8
7510.0	1.0	29	7509.7	-15.6	34.5	37.8
7520.0	0.9	28	7519.7	-15.4	34.6	37.8
7530.0	0.9	26	7529.7	-15.3	34.6	37.9
7540.0	0.9	23	7539.7	-15.2	34.7	37.9
7550.0	1.0	22	7549.7	-15.0	34.8	37.9
7560.0	1.0	20	7559.7	-14.8	34.8	37.8
7570.0	1.0	21	7569.7	-14.7	34.9	37.8
7580.0	1.0	22	7579.6	-14.5	34.9	37.8
7590.0	1.0	22	7589.6	-14.3	35.0	37.8

MEAS. DEPTH FT	DEVIATION DEGREES	AZIMUTH DEGREES	TRUE VERTICAL DEPTH FT	CO-ORDINATES + NORTH - SOUTH	+ EAST - WEST	COURSE LENGTH FT
7600.0	1.0	21	7599.6	-14.2	35.1	37.8
7610.0	1.0	18	7609.6	-14.0	35.1	37.8
7620.0	1.1	15	7619.6	-13.8	35.2	37.8
7630.0	1.2	14	7629.6	-13.6	35.2	37.8
7640.0	1.3	12	7639.6	-13.4	35.3	37.7
7650.0	1.4	13	7649.6	-13.1	35.3	37.7
7660.0	1.4	13	7659.6	-12.9	35.4	37.7
7670.0	1.5	13	7669.6	-12.6	35.5	37.6
7680.0	1.5	12	7679.6	-12.4	35.5	37.6
7690.0	1.5	12	7689.6	-12.1	35.6	37.6
7700.0	1.6	12	7699.6	-11.8	35.6	37.5
7710.0	1.6	12	7709.6	-11.6	35.7	37.5
7720.0	1.6	12	7719.6	-11.3	35.7	37.5
7730.0	1.7	13	7729.6	-11.0	35.8	37.5
7740.0	1.7	13	7739.6	-10.7	35.9	37.4
7750.0	1.7	13	7749.6	-10.4	35.9	37.4
7760.0	1.7	12	7759.6	-10.1	36.0	37.4
7770.0	1.7	13	7769.6	-9.9	36.1	37.4
7780.0	1.7	13	7779.6	-9.6	36.1	37.4
7790.0	1.7	12	7789.6	-9.3	36.2	37.4
7800.0	1.7	11	7799.6	-9.0	36.3	37.4
7810.0	1.7	12	7809.6	-8.7	36.3	37.3
7820.0	1.6	12	7819.6	-8.4	36.4	37.3
7830.0	1.7	12	7829.6	-8.1	36.4	37.3
7840.0	1.7	11	7839.6	-7.9	36.5	37.3
7850.0	1.8	12	7849.6	-7.5	36.5	37.3
7860.0	1.8	12	7859.5	-7.2	36.6	37.3
7870.0	1.9	12	7869.5	-6.9	36.7	37.3
7880.0	1.9	11	7879.5	-6.6	36.7	37.3
7890.0	1.9	11	7889.5	-6.3	36.8	37.3
7900.0	1.9	10	7899.5	-5.9	36.9	37.3
7910.0	1.9	10	7909.5	-5.6	36.9	37.3
7920.0	1.9	9	7919.5	-5.3	37.0	37.3
7930.0	2.0	8	7929.5	-4.9	37.0	37.3
7940.0	2.0	7	7939.5	-4.6	37.1	37.4
7950.0	2.1	9	7949.5	-4.2	37.1	37.4
7960.0	2.1	11	7959.5	-3.9	37.2	37.4
7970.0	2.1	10	7969.5	-3.5	37.2	37.4
7980.0	2.1	8	7979.5	-3.1	37.3	37.4
7990.0	2.1	9	7989.5	-2.8	37.4	37.5
8000.0	2.1	10	7999.5	-2.4	37.4	37.5
8010.0	2.1	9	8009.5	-2.1	37.5	37.5
8020.0	2.1	7	8019.4	-1.7	37.5	37.6
8030.0	2.1	6	8029.4	-1.3	37.6	37.6
8040.0	2.1	5	8039.4	-1.0	37.6	37.6
8050.0	2.2	7	8049.4	-0.6	37.6	37.7

MEAS. DEPTH FT	DEVIATION DEGREES	AZIMUTH DEGREES	TRUE VERTICAL DEPTH FT	CO-ORDINATES + NORTH - SOUTH	+ EAST - WEST	COURSE LENGTH FT
8060.0	2.2	8	8059.4	-0.2	37.7	37.7
8070.0	2.3	8	8069.4	0.2	37.7	37.7
8080.0	2.3	7	8079.4	0.6	37.8	37.8
8090.0	2.3	9	8089.4	1.0	37.9	37.9
8100.0	2.3	11	8099.4	1.4	37.9	37.9
8110.0	2.3	13	8109.4	1.8	38.0	38.0
8120.0	2.3	14	8119.4	2.2	38.1	38.2
8130.0	2.3	15	8129.4	2.5	38.2	38.3
8140.0	2.2	16	8139.4	2.9	38.3	38.4
8150.0	2.2	16	8149.4	3.3	38.4	38.5
8160.0	2.1	15	8159.3	3.6	38.5	38.7
8170.0	2.1	14	8169.3	4.0	38.6	38.8
8180.0	2.1	12	8179.3	4.3	38.7	38.9
8190.0	2.2	12	8189.3	4.7	38.7	39.0
8200.0	2.2	12	8199.3	5.1	38.8	39.2
8210.0	2.3	13	8209.3	5.5	38.9	39.3
8220.0	2.3	13	8219.3	5.9	39.0	39.4
8230.0	2.4	13	8229.3	6.3	39.1	39.6
8240.0	2.4	13	8239.3	6.7	39.2	39.7
8250.0	2.5	13	8249.3	7.1	39.3	39.9
8260.0	2.5	13	8259.3	7.5	39.4	40.1
8270.0	2.6	14	8269.3	8.0	39.5	40.3
8280.0	2.6	15	8279.2	8.4	39.6	40.5
8290.0	2.6	17	8289.2	8.8	39.7	40.7
8300.0	2.6	18	8299.2	9.3	39.9	40.9
8310.0	2.6	18	8309.2	9.7	40.0	41.2
8320.0	2.6	18	8319.2	10.1	40.1	41.4
8330.0	2.6	19	8329.2	10.6	40.3	41.6
8340.0	2.6	19	8339.2	11.0	40.4	41.9
8350.0	2.6	16	8349.2	11.4	40.5	42.1
8360.0	2.6	13	8359.2	11.9	40.7	42.4
8370.0	2.6	14	8369.1	12.3	40.8	42.6
8380.0	2.6	15	8379.1	12.8	40.9	42.8
8390.0	2.7	14	8389.1	13.2	41.0	43.1
8400.0	2.8	13	8399.1	13.7	41.1	43.4
8410.0	2.9	16	8409.1	14.2	41.3	43.6
8420.0	2.9	18	8419.1	14.7	41.4	43.9
8430.0	2.9	18	8429.1	15.2	41.6	44.2
8440.0	2.9	18	8439.1	15.6	41.7	44.5
8450.0	3.0	20	8449.0	16.1	41.9	44.9
8460.0	3.0	22	8459.0	16.6	42.1	45.2
8470.0	3.1	24	8469.0	17.1	42.3	45.6
8480.0	3.1	25	8479.0	17.6	42.5	46.0
8490.0	3.1	26	8489.0	18.1	42.7	46.4
8500.0	3.0	26	8499.0	18.6	43.0	46.8
8510.0	3.0	26	8509.0	19.0	43.2	47.2

MEAS. DEPTH FT	DEVIATION DEGREES	AZIMUTH DEGREES	TRUE VERTICAL DEPTH FT	CO-ORDINATES + NORTH - SOUTH	+ EAST - WEST	COURSE LENGTH FT
8520.0	3.0	25	8519.0	19.5	43.4	47.6
8530.0	3.0	25	8528.9	20.0	43.6	48.0
8540.0	3.0	24	8538.9	20.5	43.8	48.4
8550.0	3.1	24	8548.9	21.0	44.1	48.8
8560.0	3.1	23	8558.9	21.4	44.3	49.2
8570.0	3.2	24	8568.9	22.0	44.5	49.6
8580.0	3.2	24	8578.9	22.5	44.7	50.0
8590.0	3.3	24	8588.8	23.0	44.9	50.5
8600.0	3.3	24	8598.8	23.5	45.2	50.9
8610.0	3.4	26	8608.8	24.1	45.4	51.4
8620.0	3.4	27	8618.8	24.6	45.7	51.9
8630.0	3.4	31	8628.8	25.1	46.0	52.4
8640.0	3.4	34	8638.8	25.6	46.3	52.9
8650.0	3.5	35	8648.7	26.1	46.6	53.5
8660.0	3.5	35	8658.7	26.6	47.0	54.0
8670.0	3.5	34	8668.7	27.1	47.3	54.5
8680.0	3.5	32	8678.7	27.6	47.7	55.1
8690.0	3.5	32	8688.7	28.1	48.0	55.6
8700.0	3.4	31	8698.7	28.7	48.3	56.1
8710.0	3.4	30	8708.6	29.2	48.6	56.7
8720.0	3.4	28	8718.6	29.7	48.9	57.2
8730.0	3.4	26	8728.6	30.2	49.1	57.7
8740.0	3.4	24	8738.6	30.7	49.4	58.2
8750.0	3.5	26	8748.6	31.3	49.7	58.7
8760.0	3.6	28	8758.5	31.9	49.9	59.2
8770.0	3.6	30	8768.5	32.4	50.2	59.8
8780.0	3.5	31	8778.5	32.9	50.5	60.3
8790.0	3.5	32	8788.5	33.4	50.8	60.9
8800.0	3.4	33	8798.5	33.9	51.2	61.4
8810.0	3.4	33	8808.5	34.4	51.5	61.9
8820.0	3.4	32	8818.4	34.9	51.8	62.5
8830.0	3.4	30	8828.4	35.4	52.1	63.0
8840.0	3.3	27	8838.4	35.9	52.4	63.5
8850.0	3.4	28	8848.4	36.5	52.6	64.0
8860.0	3.4	28	8858.4	37.0	52.9	64.6
8870.0	3.4	25	8868.3	37.5	53.2	65.1
8880.0	3.4	21	8878.3	38.1	53.4	65.6
8890.0	3.5	26	8888.3	38.6	53.7	66.1
8900.0	3.5	30	8898.3	39.2	53.9	66.7
8910.0	3.6	32	8908.3	39.7	54.3	67.2
8920.0	3.6	34	8918.3	40.2	54.6	67.8
8930.0	3.6	34	8928.2	40.8	54.9	68.4
8940.0	3.6	34	8938.2	41.3	55.3	69.0
8950.0	3.6	29	8948.2	41.8	55.6	69.6
8960.0	3.6	24	8958.2	42.4	55.9	70.2
8970.0	3.7	25	8968.2	43.0	56.2	70.7

MEAS. DEPTH FT	DEVIATION DEGREES	AZIMUTH DEGREES	TRUE VERTICAL DEPTH FT	CO-ORDINATES + NORTH - SOUTH	+ EAST - WEST	COURSE LENGTH FT
8980.0	3.7	25	8978.1	43.6	56.4	71.3
8990.0	3.8	20	8988.1	44.2	56.7	71.9
9000.0	3.8	14	8998.1	44.8	56.9	72.4
9010.0	3.8	22	9008.1	45.4	57.1	73.0
9020.0	3.8	29	9018.0	46.0	57.4	73.6
9030.0	3.8	30	9028.0	46.6	57.7	74.2
9040.0	3.8	30	9038.0	47.2	58.0	74.8
9050.0	3.8	32	9048.0	47.7	58.4	75.4
9060.0	3.7	33	9058.0	48.3	58.7	76.0
9070.0	3.7	34	9067.9	48.8	59.1	76.6
9080.0	3.7	34	9077.9	49.4	59.4	77.2
9090.0	3.7	30	9087.9	49.9	59.7	77.8
9100.0	3.6	26	9097.9	50.5	60.0	78.4
9110.0	3.7	27	9107.9	51.0	60.3	79.0
9120.0	3.7	28	9117.8	51.6	60.6	79.6
9130.0	3.7	20	9127.8	52.2	60.8	80.2
9140.0	3.7	12	9137.8	52.8	61.1	80.7
9150.0	3.8	19	9147.8	53.4	61.3	81.3
9160.0	3.8	26	9157.8	54.1	61.5	81.9
9170.0	3.8	27	9167.7	54.6	61.8	82.5
9180.0	3.8	28	9177.7	55.2	62.1	83.1
9190.0	3.7	29	9187.7	55.8	62.4	83.7
9200.0	3.6	30	9197.7	56.3	62.7	84.3
9210.0	3.6	30	9207.6	56.9	63.0	84.9
9220.0	3.5	30	9217.6	57.4	63.3	85.5
9230.0	3.5	30	9227.6	57.9	63.6	86.0
9240.0	3.5	30	9237.6	58.5	63.9	86.6
9250.0	3.5	29	9247.6	59.0	64.2	87.2
9260.0	3.4	27	9257.6	59.5	64.5	87.7
9270.0	3.5	27	9267.5	60.1	64.8	88.3
9280.0	3.6	27	9277.5	60.6	65.1	88.9
9290.0	3.6	26	9287.5	61.2	65.3	89.5
9300.0	3.6	24	9297.5	61.7	65.6	90.1
9310.0	3.6	23	9307.5	62.3	65.8	90.7
9320.0	3.6	21	9317.4	62.9	66.1	91.2
9330.0	3.7	20	9327.4	63.5	66.3	91.8
9340.0	3.7	19	9337.4	64.1	66.5	92.4
9350.0	3.7	18	9347.4	64.7	66.7	93.0
9360.0	3.7	17	9357.4	65.3	66.9	93.5
9370.0	3.7	16	9367.3	66.0	67.1	94.1
9380.0	3.7	14	9377.3	66.6	67.3	94.7
9390.0	3.7	13	9387.3	67.2	67.4	95.2
9400.0	3.7	11	9397.3	67.9	67.5	95.7
9410.0	3.8	10	9407.2	68.5	67.7	96.3
9420.0	3.8	8	9417.2	69.2	67.8	96.8
9430.0	3.8	6	9427.2	69.8	67.8	97.3

MEAS. DEPTH FT	DEVIATION DEGREES	AZIMUTH DEGREES	TRUE VERTICAL DEPTH FT	CO-ORDINATES + NORTH - SOUTH	+ EAST - WEST	COURSE LENGTH FT
9440.0	3.8	3	9437.2	70.5	67.9	97.9
9450.0	3.8	4	9447.2	71.1	67.9	98.4
9460.0	3.8	5	9457.1	71.8	68.0	98.9
9470.0	3.8	5	9467.1	72.5	68.0	99.4
9480.0	3.8	5	9477.1	73.1	68.1	99.9
9490.0	3.8	3	9487.1	73.8	68.1	100.4
9500.0	3.7	1	9497.1	74.4	68.2	100.9
9510.0	3.7	1	9507.0	75.0	68.2	101.4
9520.0	3.6	0	9517.0	75.7	68.2	101.8
9530.0	3.7	360	9527.0	76.3	68.2	102.3
9540.0	3.7	359	9537.0	77.0	68.2	102.8
9550.0	3.7	359	9547.0	77.6	68.2	103.3
9560.0	3.7	359	9556.9	78.2	68.1	103.8
9570.0	3.7	359	9566.9	78.9	68.1	104.2
9580.0	3.6	359	9576.9	79.5	68.1	104.7
9590.0	3.6	345	9586.9	80.1	68.0	105.0
9600.0	3.6	331	9596.9	80.7	67.8	105.4
9610.0	3.6	347	9606.8	81.3	67.9	105.9
9620.0	3.5	2	9616.8	81.9	68.1	106.5
9630.0	3.5	3	9626.8	82.5	68.1	107.0
9640.0	3.4	3	9636.8	83.1	68.1	107.4
9650.0	3.4	358	9646.8	83.7	68.1	107.9
9660.0	3.4	352	9656.7	84.2	68.1	108.3
9670.0	3.4	356	9666.7	84.8	68.0	108.7
9680.0	3.3	359	9676.7	85.4	68.0	109.2
9690.0	3.3	357	9686.7	85.9	68.0	109.6
9700.0	3.2	354	9696.7	86.5	67.9	110.0
9710.0	3.2	353	9706.7	87.1	67.8	110.4
9720.0	3.2	351	9716.6	87.6	67.8	110.8
9730.0	3.2	351	9726.6	88.1	67.7	111.1
9740.0	3.1	350	9736.6	88.7	67.6	111.5
9750.0	3.1	350	9746.6	89.2	67.5	111.9
9760.0	3.0	349	9756.6	89.7	67.4	112.2
9770.0	3.0	349	9766.6	90.2	67.3	112.5
9780.0	2.9	348	9776.6	90.7	67.2	112.9
9790.0	2.9	345	9786.6	91.2	67.1	113.2
9800.0	2.8	341	9796.5	91.6	66.9	113.5
9810.0	2.8	339	9806.5	92.1	66.8	113.7
9820.0	2.8	336	9816.5	92.5	66.6	114.0
9830.0	2.8	337	9826.5	93.0	66.4	114.3
9840.0	2.8	338	9836.5	93.4	66.2	114.5
9850.0	2.9	342	9846.5	93.9	66.0	114.8
9860.0	2.9	346	9856.5	94.4	65.9	115.1
9870.0	2.9	346	9866.5	94.9	65.8	115.5
9880.0	2.9	345	9876.4	95.4	65.6	115.8
9890.0	2.9	343	9886.4	95.9	65.5	116.1

MEAS. DEPTH FT	DEVIATION DEGREES	AZIMUTH DEGREES	TRUE VERTICAL DEPTH FT	CO-ORDINATES + NORTH - SOUTH	+ EAST - WEST	COURSE LENGTH FT
9900.0	2.9	340	9896.4	96.4	65.3	116.4
9910.0	3.0	337	9906.4	96.8	65.1	116.7
9920.0	3.0	334	9916.4	97.3	64.9	117.0
9930.0	3.1	337	9926.4	97.8	64.7	117.3
9940.0	3.1	340	9936.4	98.3	64.5	117.6
9950.0	3.1	344	9946.3	98.8	64.4	117.9
9960.0	3.1	347	9956.3	99.3	64.2	118.3
9970.0	3.1	348	9966.3	99.9	64.1	118.7
9980.0	3.0	349	9976.3	100.4	64.0	119.0
9990.0	3.0	347	9986.3	100.9	63.9	119.4
10000.0	2.9	344	9996.3	101.4	63.7	119.7
10010.0	3.0	344	10006.3	101.9	63.6	120.1
10020.0	3.0	344	10016.3	102.4	63.5	120.4
10030.0	3.1	344	10026.2	102.9	63.3	120.8
10040.0	3.1	343	10036.2	103.4	63.1	121.2
10050.0	3.2	346	10046.2	104.0	63.0	121.6
10060.0	3.3	349	10056.2	104.5	62.9	122.0
10070.0	3.3	350	10066.2	105.1	62.8	122.4
10080.0	3.3	351	10076.2	105.6	62.7	122.8
10090.0	3.3	352	10086.1	106.2	62.6	123.3
10100.0	3.2	352	10096.1	106.8	62.5	123.7
10110.0	3.2	350	10106.1	107.3	62.4	124.1
10120.0	3.2	347	10116.1	107.9	62.3	124.6
10130.0	3.2	345	10126.1	108.4	62.2	124.9
10140.0	3.2	342	10136.1	108.9	62.0	125.3
10150.0	3.2	345	10146.0	109.5	61.9	125.7
10160.0	3.2	347	10156.0	110.0	61.7	126.1
10170.0	3.2	345	10166.0	110.5	61.6	126.5
10180.0	3.1	343	10176.0	111.0	61.4	126.9
10190.0	3.0	342	10186.0	111.5	61.3	127.2
10200.0	2.9	341	10196.0	112.0	61.1	127.6
10210.0	2.9	336	10206.0	112.5	60.9	127.9
10220.0	2.9	331	10216.0	112.9	60.7	128.2
10230.0	2.9	332	10225.9	113.4	60.5	128.5
10240.0	2.9	333	10235.9	113.8	60.2	128.8
10250.0	3.0	332	10245.9	114.3	60.0	129.1
10260.0	3.0	331	10255.9	114.7	59.7	129.4
10270.0	3.1	331	10265.9	115.2	59.5	129.7
10280.0	3.1	331	10275.9	115.7	59.2	130.0
10290.0	3.2	332	10285.9	116.2	58.9	130.3
10300.0	3.2	332	10295.8	116.7	58.7	130.6
10310.0	3.2	331	10305.8	117.2	58.4	130.9
10320.0	3.2	330	10315.8	117.7	58.1	131.2
10330.0	3.2	333	10325.8	118.1	57.9	131.6
10340.0	3.2	335	10335.8	118.6	57.6	131.9
10350.0	3.2	335	10345.8	119.1	57.4	132.2

MEAS. DEPTH FT	DEVIATION DEGREES	AZIMUTH DEGREES	TRUE VERTICAL DEPTH FT	CO-ORDINATES + NORTH - SOUTH	+ EAST - WEST	COURSE LENGTH FT
10360.0	3.2	335	10355.7	119.7	57.1	132.6
10370.0	3.1	331	10365.7	120.1	56.9	132.9
10380.0	3.0	326	10375.7	120.6	56.6	133.2
10390.0	3.1	330	10385.7	121.0	56.4	133.5
10400.0	3.1	333	10395.7	121.5	56.1	133.8
10410.0	3.1	332	10405.7	122.0	55.8	134.1
10420.0	3.1	331	10415.7	122.5	55.6	134.5
10430.0	3.1	332	10425.6	122.9	55.3	134.8
10440.0	3.1	333	10435.6	123.4	55.1	135.1
10450.0	3.1	331	10445.6	123.9	54.8	135.5
10460.0	3.1	329	10455.6	124.4	54.5	135.8
10470.0	3.1	333	10465.6	124.8	54.3	136.1
10480.0	3.1	336	10475.6	125.3	54.0	136.5
10490.0	3.2	334	10485.6	125.8	53.8	136.8
10500.0	3.2	331	10495.5	126.3	53.5	137.2
10510.0	3.2	334	10505.5	126.8	53.3	137.6
10520.0	3.2	337	10515.5	127.3	53.1	137.9
10530.0	3.2	339	10525.5	127.8	52.9	138.3
10540.0	3.2	340	10535.5	128.4	52.7	138.7
10550.0	3.2	342	10545.5	128.9	52.5	139.2
10560.0	3.2	343	10555.4	129.4	52.3	139.6
10570.0	3.3	344	10565.4	130.0	52.1	140.0
10580.0	3.3	344	10575.4	130.5	52.0	140.5
10590.0	3.3	344	10585.4	131.1	51.8	140.9
10600.0	3.3	344	10595.4	131.6	51.7	141.4
10610.0	3.3	342	10605.4	132.2	51.5	141.8
10620.0	3.2	340	10615.3	132.7	51.3	142.3
10630.0	3.2	341	10625.3	133.2	51.1	142.7
10640.0	3.2	341	10635.3	133.7	50.9	143.1
10650.0	3.2	342	10645.3	134.3	50.8	143.5
10660.0	3.2	342	10655.3	134.8	50.6	144.0
10670.0	3.3	345	10665.3	135.4	50.4	144.4
10680.0	3.4	347	10675.3	135.9	50.3	144.9
10690.0	3.5	347	10685.2	136.5	50.1	145.4
10700.0	3.5	346	10695.2	137.1	50.0	145.9
10710.0	3.6	348	10705.2	137.7	49.8	146.5
10720.0	3.6	349	10715.2	138.3	49.7	147.0
10730.0	3.7	349	10725.2	139.0	49.6	147.6
10740.0	3.7	348	10735.1	139.6	49.4	148.1
10750.0	3.7	347	10745.1	140.2	49.3	148.7
10760.0	3.7	346	10755.1	140.9	49.2	149.2
10770.0	3.7	347	10765.1	141.5	49.0	149.7
10780.0	3.7	347	10775.0	142.1	48.9	150.3
10790.0	3.7	350	10785.0	142.8	48.7	150.9
10800.0	3.7	353	10795.0	143.4	48.6	151.4
10810.0	3.8	350	10805.0	144.1	48.5	152.0

MEAS. DEPTH FT	DEVIATION DEGREES	AZIMUTH DEGREES	TRUE VERTICAL DEPTH FT	CO-ORDINATES + NORTH - SOUTH	+ EAST - WEST	COURSE LENGTH FT
10820.0	3.8	348	10815.0	144.7	48.4	152.6
10830.0	3.8	348	10824.9	145.4	48.3	153.2
10840.0	3.8	348	10834.9	146.0	48.1	153.7
10850.0	3.8	336	10844.9	146.6	47.9	154.2
10860.0	3.8	323	10854.9	147.2	47.6	154.7
10870.0	3.9	338	10864.9	147.8	47.3	155.2
10880.0	3.9	352	10874.8	148.4	47.1	155.7
10890.0	3.9	348	10884.8	149.1	46.9	156.3
10900.0	3.9	343	10894.8	149.8	46.8	156.9
10910.0	3.9	344	10904.8	150.4	46.6	157.5
10920.0	3.9	344	10914.7	151.1	46.4	158.0
10930.0	3.9	343	10924.7	151.7	46.2	158.6
10940.0	3.9	343	10934.7	152.4	46.0	159.2
10950.0	3.8	346	10944.7	153.0	45.8	159.7
10960.0	3.8	349	10954.6	153.7	45.7	160.3
10970.0	3.7	352	10964.6	154.3	45.6	160.9
10980.0	3.6	354	10974.6	154.9	45.5	161.4
10990.0	3.5	353	10984.6	155.5	45.4	162.0
11000.0	3.4	351	10994.6	156.1	45.3	162.5
11010.0	3.4	349	11004.6	156.7	45.2	163.0
11020.0	3.4	346	11014.5	157.2	45.1	163.6
11030.0	3.4	349	11024.5	157.8	45.0	164.1
11040.0	3.4	352	11034.5	158.4	44.9	164.6
11050.0	3.4	352	11044.5	159.0	44.8	165.2
11060.0	3.4	352	11054.5	159.6	44.7	165.7
11070.0	3.4	351	11064.4	160.2	44.6	166.3
11080.0	3.4	349	11074.4	160.7	44.5	166.8
11090.0	3.4	353	11084.4	161.3	44.4	167.3
11100.0	3.4	356	11094.4	161.9	44.4	167.9
11110.0	3.4	357	11104.4	162.5	44.3	168.4
11120.0	3.4	358	11114.4	163.1	44.3	169.0
11130.0	3.4	357	11124.3	163.7	44.3	169.6
11140.0	3.4	355	11134.3	164.3	44.2	170.1
11150.0	3.4	353	11144.3	164.9	44.1	170.7
11160.0	3.3	350	11154.3	165.4	44.1	171.2
11170.0	3.3	352	11164.3	166.0	44.0	171.7
11180.0	3.3	353	11174.3	166.6	43.9	172.3
11190.0	3.4	351	11184.2	167.2	43.8	172.8
11200.0	3.4	348	11194.2	167.7	43.7	173.3
11210.0	3.4	350	11204.2	168.3	43.6	173.9
11220.0	3.4	351	11214.2	168.9	43.5	174.4
11230.0	3.4	356	11224.2	169.5	43.4	175.0
11240.0	3.4	360	11234.2	170.1	43.4	175.5
11250.0	3.4	358	11244.1	170.7	43.4	176.1
11260.0	3.3	356	11254.1	171.2	43.4	176.6
11270.0	3.3	355	11264.1	171.8	43.3	177.2

MEAS. DEPTH FT	DEVIATION DEGREES	AZIMUTH DEGREES	TRUE VERTICAL DEPTH FT	CO-ORDINATES + NORTH - SOUTH	+ EAST - WEST	COURSE LENGTH FT
11280.0	3.3	353	11274.1	172.4	43.2	177.7
11290.0	3.3	353	11284.1	172.9	43.2	178.3
11300.0	3.3	352	11294.1	173.5	43.1	178.8
11310.0	3.4	351	11304.0	174.1	43.0	179.3
11320.0	3.4	349	11314.0	174.7	42.9	179.9
11330.0	3.4	352	11324.0	175.3	42.8	180.4
11340.0	3.4	354	11334.0	175.9	42.7	181.0
11350.0	3.4	356	11344.0	176.5	42.7	181.5
11360.0	3.4	357	11353.9	177.0	42.6	182.1
11370.0	3.4	356	11363.9	177.6	42.6	182.7
11380.0	3.4	354	11373.9	178.2	42.5	183.2
11390.0	3.4	355	11383.9	178.8	42.5	183.8
11400.0	3.4	355	11393.9	179.4	42.4	184.4
11410.0	3.4	354	11403.9	180.0	42.4	184.9
11420.0	3.4	353	11413.8	180.6	42.3	185.5
11430.0	3.4	350	11423.8	181.2	42.2	186.0
11440.0	3.4	346	11433.8	181.8	42.1	186.6
11450.0	3.6	347	11443.8	182.4	41.9	187.1
11460.0	3.7	348	11453.8	183.0	41.8	187.7
11470.0	3.8	351	11463.7	183.7	41.7	188.3
11480.0	3.8	353	11473.7	184.3	41.6	188.9
11490.0	3.8	352	11483.7	185.0	41.5	189.6
11500.0	3.8	351	11493.7	185.6	41.4	190.2
11510.0	3.7	351	11503.7	186.2	41.3	190.8
11520.0	3.6	350	11513.6	186.9	41.2	191.4
11530.0	3.6	350	11523.6	187.5	41.1	191.9
11540.0	3.6	349	11533.6	188.1	41.0	192.5
11550.0	3.6	348	11543.6	188.7	40.8	193.1
11560.0	3.5	346	11553.6	189.3	40.7	193.6
11570.0	3.6	348	11563.5	189.9	40.6	194.2
11580.0	3.7	350	11573.5	190.6	40.4	194.8
11590.0	3.8	349	11583.5	191.2	40.3	195.4
11600.0	3.8	347	11593.5	191.9	40.2	196.0
11610.0	3.9	349	11603.5	192.5	40.0	196.6
11620.0	3.9	350	11613.4	193.2	39.9	197.3
11630.0	3.8	350	11623.4	193.8	39.8	197.9
11640.0	3.7	349	11633.4	194.5	39.7	198.5
11650.0	3.8	350	11643.4	195.1	39.5	199.1
11660.0	3.9	350	11653.3	195.8	39.4	199.7
11670.0	4.0	351	11663.3	196.5	39.3	200.4
11680.0	4.0	351	11673.3	197.2	39.2	201.0
11690.0	3.8	355	11683.3	197.8	39.1	201.6
11700.0	3.6	358	11693.3	198.4	39.1	202.2
11710.0	3.9	359	11703.2	199.1	39.0	202.9
11720.0	4.1	359	11713.2	199.8	39.0	203.6
11730.0	4.0	357	11723.2	200.5	39.0	204.3

MEAS. DEPTH FT	DEVIATION DEGREES	AZIMUTH DEGREES	TRUE VERTICAL DEPTH FT	CO-ORDINATES + NORTH - SOUTH	+ EAST - WEST	COURSE LENGTH FT
11740.0	3.9	355	11733.2	201.2	38.9	204.9
11750.0	3.9	354	11743.1	201.9	38.9	205.6
11760.0	3.9	352	11753.1	202.6	38.8	206.2
11770.0	3.9	353	11763.1	203.2	38.7	206.9
11780.0	3.9	353	11773.1	203.9	38.6	207.5
11790.0	3.9	355	11783.0	204.6	38.6	208.2
11800.0	3.8	356	11793.0	205.2	38.5	208.8
11810.0	3.8	356	11803.0	205.9	38.4	209.4
11820.0	3.8	355	11813.0	206.5	38.4	210.1
11830.0	3.9	352	11823.0	207.2	38.3	210.7
11840.0	3.9	349	11832.9	207.9	38.2	211.4
11850.0	3.9	352	11842.9	208.6	38.1	212.0
11860.0	3.9	354	11852.9	209.2	38.0	212.7
11870.0	3.9	355	11862.9	209.9	37.9	213.3
11880.0	3.9	355	11872.8	210.6	37.9	214.0
11890.0	3.9	360	11882.8	211.3	37.9	214.6
11900.0	3.8	5	11892.8	211.9	37.9	215.3
11908.0	3.9	4	11900.8	212.5	37.9	215.8

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*                    BOTTOM HOLE LOCATION                       *
*                                                               *
*                    COURSE LENGTH:          215.8  FT          *
*                                                               *
*                    COURSE AZIMUTH:          10.1  DEGREES     *
*                                                               *
*                                                               *
*                    MEASURED DEPTH:       11908.0  FT          *
*                                                               *
*                    TRUE VERTICAL DEPTH:  11900.8  FT          *
*                                                               *
*                    DISTANCE NORTH:         212.5  FT          *
*                                                               *
*                    DISTANCE EAST:           37.9  FT          *
*                                                               *
*                                                               *
*                    TANGENTIAL METHOD                          *
*                                                               *
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