

COG

SURVEY REPORT

SQUARE BILL FEDERAL COM #1H

MCVAY #8

12/9/2017

This survey is correct to the best of my knowledge and is supported by actual field data.

Kolton Cotton

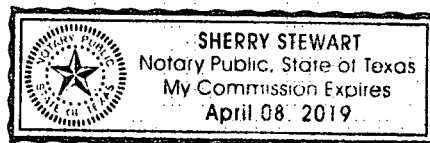
Notarized this date 9 of February, 2018.

Sherry Stewart

Notary Signature

County of Midland

State of Texas



SURVEY REPORT

SQUARE BILL FEDERAL COM #1H

DEFINITIVE KEEPER GYRO SURVEY

CUSTOMER
PROJECT
FIELD

COG
Square Bill Federal Com #1H
Square Bill Federal Com #23H

SDI JOB NO.
SDI DISTRICT
SDI KIT/UNIT

OP.006523
Midland

SITE INFORMATION

Site Name
Lat/Long
Northing
Easting

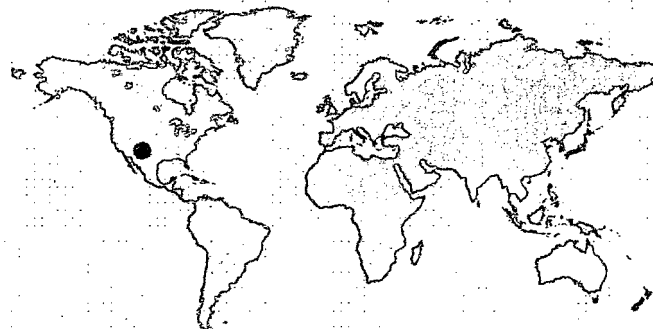
Square Bill Federal Com #23H
32.0800776° N, 103.4008851° W
394,104.5 ft
788,808.1 ft

Section
Township
Range

MAP INFORMATION

North Reference
Grid Correction
System
Datum
Map Zone

Grid North
-0.50 deg
US State Plane 1983
North American Datum 1983 (GRS 1980)
New Mexico East: 3001

**WELL INFORMATION**

Lat/Long
Northing
Easting
UWI

32.0800774° N, 103.400672° W
394,105 ft
788,874.1 ft
30-025-44048

DEPTH AND ELEVATION REFERENCE

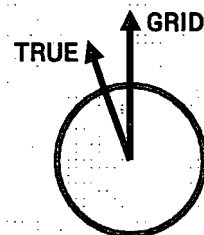
Ground Level
Level
Reference Datum
Reference Height
Reference Elevation

3274.4 ft above Mean Sea
Level
KB
26 ft above G.L.
3300.4 ft

VERTICAL SECTION REFERENCE

+N/-S
+E/-W
Proposal Direction
Calculation Method

0 ft
0 ft
1.71°
Minimum Curvature

**LOCAL GRAVITY REFERENCE INFORMATION**

Local Gravity
True to Grid

998.501 mG [computed]
subtract 0.5°

WELL NOTES

Keeper Gyro Survey ran in 4 1/2" Drill Pipe to 11,700'

OPERATORS

C. Booher

SDI Operator Name (Printed)

SIGNATURE

DATE

MD	INC	AZIM	TVD	VS	N/S	E/W	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	ft	%/100ft	ft	deg
0.00	0.00	0.00	0.00	0.00	0.00	0.00	Invalid	0.00	0.00
100.00	1.37	9.49	99.99	1.18	1.18	0.20	1.37	1.19	9.49
125.00	1.54	8.05	124.98	1.81	1.80	0.29	0.73	1.83	9.23
150.00	1.57	4.87	149.97	2.49	2.48	0.37	0.36	2.50	8.47
175.00	1.57	6.92	174.96	3.17	3.16	0.44	0.23	3.19	7.92
200.00	1.59	6.97	199.95	3.86	3.84	0.52	0.09	3.88	7.75
225.00	1.76	10.16	224.94	4.58	4.57	0.63	0.76	4.61	7.89
250.00	1.93	15.37	249.93	5.37	5.35	0.81	0.95	5.41	8.63
275.00	1.74	10.33	274.92	6.15	6.13	0.99	1.01	6.21	9.19
300.00	1.75	8.81	299.91	6.91	6.88	1.12	0.20	6.97	9.23
325.00	1.72	8.85	324.89	7.66	7.63	1.23	0.15	7.73	9.19
350.00	1.60	12.35	349.88	8.38	8.34	1.37	0.61	8.45	9.31
375.00	1.64	12.66	374.87	9.07	9.03	1.52	0.15	9.16	9.55
400.00	1.56	11.04	399.86	9.76	9.71	1.66	0.37	9.85	9.72
425.00	1.53	11.93	424.86	10.42	10.37	1.80	0.15	10.53	9.83
450.00	1.52	13.20	449.85	11.07	11.02	1.94	0.14	11.19	9.99
475.00	1.52	15.42	474.84	11.72	11.66	2.11	0.24	11.85	10.23
500.00	1.45	18.23	499.83	12.35	12.28	2.29	0.42	12.50	10.57
525.00	1.43	19.14	524.82	12.95	12.88	2.49	0.12	13.12	10.96
550.00	1.34	19.58	549.81	13.52	13.45	2.69	0.36	13.72	11.33
575.00	1.20	24.81	574.81	14.04	13.96	2.90	0.74	14.26	11.74
600.00	1.25	27.24	599.80	14.53	14.44	3.14	0.30	14.78	12.25
625.00	1.22	25.32	624.80	15.02	14.92	3.37	0.21	15.30	12.74
650.00	1.20	27.18	649.79	15.50	15.40	3.61	0.17	15.81	13.19
675.00	1.20	29.24	674.79	15.96	15.86	3.86	0.17	16.32	13.66
700.00	1.15	28.08	699.78	16.42	16.31	4.10	0.21	16.81	14.12
725.00	1.13	28.65	724.78	16.87	16.74	4.34	0.10	17.30	14.52
750.00	1.09	29.21	749.77	17.30	17.17	4.57	0.14	17.77	14.91
775.00	1.16	33.46	774.77	17.72	17.59	4.83	0.42	18.24	15.35
800.00	1.10	34.06	799.76	18.14	18.00	5.10	0.24	18.70	15.82
825.00	1.03	36.57	824.76	18.53	18.37	5.37	0.33	19.14	16.29
850.00	0.99	36.51	849.75	18.89	18.73	5.63	0.18	19.56	16.73

MD	INC	AZIM	TVD	VS	FN/S	FE/W	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	ft	/100ft	ft	deg
875.00	0.90	40.72	874.75	19.22	19.05	5.89	0.43	19.94	17.17
900.00	0.91	41.64	899.75	19.52	19.35	6.15	0.06	20.30	17.63
925.00	0.71	42.81	924.74	19.79	19.61	6.39	0.79	20.62	18.04
950.00	0.47	50.02	949.74	19.98	19.79	6.57	1.04	20.85	18.36
975.00	0.28	47.80	974.74	20.09	19.90	6.69	0.75	20.99	18.59
1000.00	0.43	56.53	999.74	20.18	19.99	6.82	0.65	21.12	18.83
1025.00	0.38	62.22	1024.74	20.28	20.08	6.97	0.26	21.25	19.14
1050.00	0.39	70.37	1049.74	20.35	20.15	7.12	0.22	21.37	19.47
1075.00	0.36	76.48	1074.74	20.40	20.19	7.28	0.20	21.47	19.82
1100.00	0.32	92.08	1099.74	20.42	20.21	7.42	0.41	21.53	20.17
1125.00	0.27	80.41	1124.74	20.43	20.22	7.55	0.31	21.58	20.48
1150.00	0.28	74.33	1149.74	20.46	20.24	7.67	0.13	21.65	20.75
1175.00	0.33	78.66	1174.74	20.50	20.27	7.80	0.22	21.72	21.04
1200.00	0.27	83.01	1199.74	20.52	20.30	7.93	0.28	21.79	21.34
1225.00	0.30	81.52	1224.74	20.54	20.31	8.05	0.12	21.85	21.62
1250.00	0.33	72.54	1249.74	20.58	20.34	8.18	0.24	21.93	21.91
1275.00	0.30	94.54	1274.74	20.60	20.36	8.32	0.49	21.99	22.22
1300.00	0.30	92.22	1299.74	20.60	20.35	8.45	0.05	22.04	22.55
1325.00	0.29	88.48	1324.74	20.60	20.35	8.58	0.09	22.09	22.85
1350.00	0.32	91.49	1349.74	20.60	20.35	8.71	0.14	22.14	23.17
1375.00	0.27	88.04	1374.74	20.61	20.35	8.84	0.20	22.19	23.48
1400.00	0.23	88.47	1399.74	20.61	20.36	8.95	0.15	22.24	23.73
1425.00	0.13	109.56	1424.74	20.61	20.35	9.03	0.50	22.26	23.92
1450.00	0.21	87.50	1449.74	20.60	20.34	9.10	0.40	22.28	24.10
1475.00	0.23	105.21	1474.73	20.59	20.33	9.19	0.29	22.31	24.33
1500.00	0.13	128.27	1499.73	20.57	20.30	9.26	0.50	22.31	24.53
1525.00	0.11	113.47	1524.73	20.54	20.27	9.31	0.15	22.31	24.66
1550.00	0.15	96.14	1549.73	20.53	20.26	9.36	0.24	22.32	24.80
1575.00	0.09	160.02	1574.73	20.51	20.24	9.40	0.56	22.31	24.92
1600.00	0.10	128.64	1599.73	20.48	20.20	9.43	0.22	22.29	25.01
1625.00	0.19	186.88	1624.73	20.42	20.15	9.44	0.65	22.25	25.10
1650.00	0.21	183.51	1649.73	20.33	20.06	9.43	0.08	22.17	25.18

MD	INC	AZIM	TVD	VS	N/S	E/W	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	ft	/100ft	ft	deg
1675.00	0.55	194.50	1674.73	20.17	19.90	9.40	1.40	22.01	25.28
1700.00	0.87	194.17	1699.73	19.87	19.60	9.32	1.25	21.70	25.44
1725.00	1.23	192.53	1724.73	19.42	19.15	9.22	1.47	21.26	25.70
1750.00	1.34	197.00	1749.72	18.87	18.61	9.07	0.59	20.71	25.99
1775.00	1.34	196.80	1774.71	18.31	18.05	8.90	0.02	20.13	26.25
1800.00	1.18	197.61	1799.71	17.78	17.53	8.74	0.65	19.59	26.51
1825.00	1.22	197.35	1824.70	17.28	17.03	8.58	0.13	19.07	26.75
1850.00	1.28	198.68	1849.70	16.75	16.51	8.42	0.28	18.53	27.01
1875.00	1.24	193.60	1874.69	16.22	15.98	8.26	0.47	17.99	27.34
1900.00	1.40	199.00	1899.68	15.67	15.43	8.10	0.81	17.43	27.69
1925.00	1.25	199.37	1924.68	15.12	14.89	7.91	0.60	16.86	27.98
1950.00	1.32	199.46	1949.67	14.58	14.36	7.72	0.27	16.30	28.28
1975.00	1.34	200.77	1974.66	14.03	13.81	7.52	0.16	15.73	28.58
2000.00	1.30	193.24	1999.66	13.48	13.26	7.35	0.72	15.17	29.01
2025.00	1.24	187.37	2024.65	12.93	12.72	7.26	0.57	14.64	29.70
2050.00	1.29	185.44	2049.65	12.38	12.17	7.19	0.26	14.14	30.59
2075.00	1.22	184.38	2074.64	11.83	11.62	7.15	0.31	13.64	31.59
2100.00	1.20	184.65	2099.63	11.30	11.10	7.11	0.06	13.18	32.63
2125.00	1.22	181.83	2124.63	10.77	10.57	7.08	0.25	12.72	33.80
2150.00	1.13	175.98	2149.62	10.26	10.06	7.08	0.60	12.30	35.17
2175.00	1.21	180.44	2174.62	9.75	9.54	7.10	0.48	11.90	36.64
2200.00	1.21	180.65	2199.61	9.22	9.02	7.09	0.02	11.47	38.20
2225.00	1.23	177.48	2224.61	8.69	8.48	7.10	0.28	11.06	39.94
2250.00	1.17	176.45	2249.60	8.17	7.96	7.13	0.23	10.69	41.86
2275.00	1.24	172.96	2274.60	7.65	7.43	7.18	0.40	10.34	44.00
2300.00	1.21	161.48	2299.59	7.13	6.92	7.30	0.99	10.05	46.53
2325.00	1.23	162.59	2324.58	6.63	6.41	7.46	0.12	9.84	49.33
2350.00	1.24	163.79	2349.58	6.12	5.89	7.62	0.12	9.63	52.26
2375.00	1.22	165.63	2374.57	5.60	5.38	7.76	0.18	9.44	55.28
2400.00	1.20	158.15	2399.57	5.11	4.87	7.92	0.64	9.30	58.41
2425.00	1.22	151.41	2424.56	4.64	4.39	8.15	0.57	9.26	61.66
2450.00	1.24	151.31	2449.56	4.17	3.92	8.40	0.06	9.28	64.97

MD	INC	AZIM	TVD	VS	N/S	E/W	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	ft	/100ft	ft	deg
2475.00	1.23	151.31	2474.55	3.71	3.45	8.66	0.05	9.33	68.27
2500.00	1.22	151.81	2499.54	3.25	2.98	8.92	0.04	9.40	71.51
2525.00	1.19	147.94	2524.54	2.80	2.53	9.18	0.35	9.52	74.62
2550.00	1.16	142.88	2549.53	2.38	2.10	9.47	0.43	9.70	77.48
2575.00	1.22	140.14	2574.53	1.99	1.70	9.80	0.31	9.94	80.17
2600.00	1.25	133.31	2599.52	1.61	1.31	10.16	0.60	10.25	82.67
2625.00	1.32	134.47	2624.52	1.23	0.92	10.57	0.30	10.61	85.03
2650.00	1.24	129.76	2649.51	0.87	0.55	10.98	0.52	10.99	87.16
2675.00	1.34	124.74	2674.50	0.55	0.20	11.43	0.61	11.43	88.97
2700.00	1.40	120.74	2699.50	0.24	-0.12	11.93	0.45	11.93	90.57
2725.00	1.42	113.09	2724.49	-0.02	-0.40	12.48	0.76	12.49	91.82
2750.00	1.60	114.31	2749.48	-0.27	-0.66	13.09	0.72	13.10	92.90
2775.00	1.75	108.19	2774.47	-0.51	-0.92	13.77	0.92	13.80	93.84
2800.00	1.69	109.07	2799.46	-0.73	-1.16	14.48	0.26	14.52	94.60
2825.00	1.74	109.34	2824.45	-0.96	-1.41	15.18	0.23	15.25	95.31
2850.00	1.70	111.25	2849.44	-1.20	-1.67	15.89	0.29	15.97	96.00
2875.00	1.69	107.05	2874.42	-1.42	-1.91	16.58	0.50	16.69	96.58
2900.00	1.68	110.95	2899.41	-1.63	-2.15	17.28	0.46	17.41	97.10
2925.00	1.36	130.94	2924.41	-1.94	-2.48	17.84	2.45	18.01	97.90
2950.00	1.30	150.82	2949.40	-2.37	-2.92	18.20	1.85	18.44	99.11
2975.00	1.34	162.51	2974.39	-2.89	-3.44	18.43	1.09	18.75	100.59
3000.00	1.40	159.84	2999.39	-3.45	-4.01	18.62	0.35	19.05	102.15
3025.00	1.39	160.62	3024.38	-4.02	-4.58	18.83	0.08	19.38	103.68
3050.00	1.38	161.74	3049.37	-4.59	-5.16	19.02	0.13	19.71	105.16
3075.00	1.36	160.25	3074.36	-5.14	-5.72	19.22	0.15	20.05	106.57
3100.00	1.40	160.28	3099.36	-5.70	-6.29	19.42	0.13	20.41	107.94
3125.00	1.35	151.17	3124.35	-6.24	-6.83	19.67	0.89	20.82	109.15
3150.00	1.27	148.99	3149.34	-6.73	-7.33	19.95	0.38	21.26	110.17
3175.00	1.26	149.59	3174.34	-7.20	-7.80	20.23	0.08	21.69	111.09
3200.00	1.25	143.87	3199.33	-7.64	-8.26	20.53	0.50	22.13	111.91
3225.00	1.29	135.72	3224.32	-8.05	-8.68	20.89	0.74	22.62	112.56
3250.00	1.27	132.19	3249.32	-8.43	-9.07	21.29	0.33	23.14	113.07

MD	INC	AZIM	TV	VS	N/S	E/W	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	ft	°/100ft	ft	deg
3275.00	1.30	128.43	3274.31	-8.78	-9.43	21.72	0.36	23.68	113.47
3300.00	1.32	129.38	3299.31	-9.12	-9.79	22.16	0.11	24.23	113.83
3325.00	1.35	124.26	3324.30	-9.46	-10.14	22.63	0.49	24.80	114.13
3350.00	1.40	118.36	3349.29	-9.75	-10.45	23.14	0.60	25.39	114.30
3375.00	1.47	116.91	3374.28	-10.03	-10.74	23.70	0.30	26.02	114.38
3400.00	1.55	112.60	3399.27	-10.28	-11.01	24.29	0.57	26.67	114.39
3425.00	1.67	106.18	3424.26	-10.49	-11.24	24.96	0.85	27.37	114.26
3450.00	1.83	102.81	3449.25	-10.66	-11.43	25.69	0.76	28.12	113.99
3475.00	1.87	100.58	3474.24	-10.80	-11.60	26.48	0.34	28.91	113.65
3500.00	1.84	101.74	3499.23	-10.93	-11.75	27.28	0.21	29.70	113.31
3525.00	1.90	101.68	3524.21	-11.08	-11.92	28.07	0.24	30.50	113.00
3550.00	1.92	99.62	3549.20	-11.21	-12.07	28.89	0.29	31.32	112.68
3575.00	1.75	102.50	3574.19	-11.33	-12.23	29.68	0.77	32.10	112.39
3600.00	0.99	137.90	3599.18	-11.56	-12.47	30.20	4.43	32.67	112.44
3625.00	0.91	194.49	3624.18	-11.91	-12.82	30.30	3.61	32.90	112.94
3650.00	0.62	197.61	3649.17	-12.23	-13.14	30.21	1.15	32.94	113.51
3675.00	0.64	196.99	3674.17	-12.50	-13.40	30.12	0.09	32.97	113.99
3700.00	0.59	192.99	3699.17	-12.76	-13.66	30.05	0.26	33.01	114.45
3725.00	0.58	194.91	3724.17	-13.01	-13.91	29.99	0.09	33.06	114.89
3750.00	0.53	196.70	3749.17	-13.25	-14.15	29.93	0.22	33.10	115.30
3775.00	0.48	192.87	3774.17	-13.46	-14.36	29.87	0.24	33.14	115.68
3800.00	0.30	183.95	3799.17	-13.63	-14.53	29.84	0.75	33.19	115.96
3825.00	0.34	163.00	3824.17	-13.77	-14.67	29.86	0.49	33.27	116.16
3850.00	0.38	175.10	3849.17	-13.92	-14.82	29.89	0.35	33.36	116.37
3875.00	0.32	189.58	3874.17	-14.07	-14.97	29.88	0.43	33.42	116.61
3900.00	0.31	169.52	3899.17	-14.21	-15.11	29.88	0.44	33.49	116.82
3925.00	0.44	183.03	3924.17	-14.37	-15.27	29.89	0.61	33.57	117.06
3950.00	0.32	219.52	3949.17	-14.52	-15.42	29.84	1.05	33.59	117.33
3975.00	0.34	227.40	3974.16	-14.63	-15.52	29.74	0.19	33.55	117.56
4000.00	0.36	234.49	3999.16	-14.73	-15.62	29.62	0.19	33.49	117.80
4025.00	0.29	221.82	4024.16	-14.82	-15.71	29.52	0.40	33.44	118.03
4050.00	0.42	222.91	4049.16	-14.94	-15.83	29.41	0.53	33.40	118.28

MD	INC	AZIM	IVD	VS	N/S	E/W	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	ft	%/100ft	ft	deg
4075.00	0.38	278.05	4074.16	-15.00	-15.88	29.27	1.50	33.30	118.49
4100.00	0.26	232.65	4099.16	-15.03	-15.90	29.14	1.09	33.20	118.63
4125.00	0.39	241.11	4124.16	-15.11	-15.98	29.02	0.55	33.13	118.84
4150.00	0.29	230.14	4149.16	-15.19	-16.06	28.90	0.49	33.06	119.06
4175.00	0.20	205.37	4174.16	-15.27	-16.14	28.83	0.54	33.04	119.24
4200.00	0.20	236.58	4199.16	-15.34	-16.20	28.78	0.43	33.03	119.38
4225.00	0.06	280.54	4224.16	-15.36	-16.22	28.73	0.65	32.99	119.45
4250.00	0.10	160.93	4249.16	-15.38	-16.24	28.72	0.57	33.00	119.49
4275.00	0.13	83.20	4274.16	-15.39	-16.26	28.76	0.58	33.04	119.48
4300.00	0.22	92.74	4299.16	-15.39	-16.26	28.83	0.37	33.10	119.42
4325.00	0.32	85.80	4324.16	-15.38	-16.26	28.95	0.42	33.20	119.32
4350.00	0.55	84.47	4349.16	-15.36	-16.24	29.13	0.92	33.35	119.14
4375.00	0.61	90.71	4374.16	-15.35	-16.23	29.38	0.35	33.57	118.91
4400.00	0.57	91.49	4399.16	-15.34	-16.23	29.64	0.17	33.80	118.71
4425.00	0.53	74.64	4424.16	-15.31	-16.21	29.88	0.66	33.99	118.48
4450.00	0.63	68.42	4449.15	-15.22	-16.13	30.11	0.48	34.16	118.17
4475.00	0.72	82.80	4474.15	-15.14	-16.06	30.40	0.75	34.38	117.84
4500.00	0.83	76.12	4499.15	-15.07	-15.99	30.73	0.58	34.64	117.49
4525.00	1.07	81.12	4524.15	-14.98	-15.91	31.14	1.01	34.97	117.07
4550.00	1.77	90.27	4549.14	-14.92	-15.88	31.75	2.93	35.50	116.57
4575.00	2.53	97.01	4574.12	-14.97	-15.95	32.69	3.21	36.37	116.01
4600.00	2.80	94.14	4599.10	-15.04	-16.06	33.84	1.19	37.46	115.39
4625.00	3.07	97.27	4624.06	-15.13	-16.19	35.11	1.28	38.67	114.75
4650.00	2.91	97.53	4649.03	-15.26	-16.36	36.41	0.66	39.91	114.19
4675.00	2.97	98.07	4674.00	-15.40	-16.53	37.68	0.27	41.14	113.69
4700.00	2.98	96.26	4698.96	-15.52	-16.69	38.97	0.38	42.39	113.19
4725.00	3.06	96.21	4723.93	-15.63	-16.84	40.28	0.31	43.65	112.68
4750.00	2.96	97.99	4748.89	-15.75	-17.00	41.58	0.56	44.92	112.23
4775.00	3.03	97.45	4773.86	-15.88	-17.17	42.87	0.31	46.18	111.83
4800.00	3.03	94.00	4798.82	-15.98	-17.30	44.19	0.73	47.45	111.39
4825.00	3.17	95.50	4823.79	-16.05	-17.42	45.53	0.63	48.75	110.93
4850.00	3.31	96.34	4848.75	-16.15	-17.56	46.94	0.59	50.12	110.51

MD	INC	AZIM	TVD	VS	N/S	E/W	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	ft	%/100ft	ft	deg
4875.00	3.55	96.00	4873.70	-16.27	-17.72	48.43	0.96	51.57	110.10
4900.00	3.64	95.70	4898.65	-16.38	-17.88	49.99	0.35	53.09	109.68
4925.00	3.96	97.50	4923.60	-16.52	-18.07	51.63	1.38	54.70	109.29
4950.00	3.98	99.68	4948.54	-16.73	-18.33	53.34	0.61	56.40	108.97
4975.00	4.14	97.42	4973.48	-16.94	-18.59	55.09	0.91	58.15	108.65
5000.00	4.40	99.82	4998.41	-17.17	-18.87	56.93	1.28	59.98	108.34
5025.00	4.24	99.69	5023.33	-17.43	-19.19	58.79	0.68	61.84	108.08
5050.00	4.30	98.98	5048.27	-17.68	-19.50	60.62	0.34	63.68	107.83
5075.00	4.37	101.05	5073.19	-17.95	-19.82	62.49	0.69	65.56	107.60
5100.00	4.24	101.51	5098.12	-18.26	-20.19	64.33	0.55	67.42	107.43
5125.00	3.49	112.40	5123.07	-18.69	-20.67	65.94	4.19	69.10	107.40
5150.00	2.88	135.70	5148.03	-19.40	-21.41	67.08	5.67	70.41	107.70
5175.00	2.82	142.18	5173.00	-20.31	-22.34	67.90	1.31	71.48	108.21
5200.00	2.80	142.08	5197.97	-21.25	-23.31	68.65	0.10	72.50	108.76
5225.00	2.72	142.04	5222.94	-22.18	-24.26	69.39	0.31	73.51	109.27
5250.00	2.43	142.67	5247.91	-23.05	-25.15	70.08	1.17	74.45	109.74
5275.00	2.57	143.62	5272.89	-23.90	-26.02	70.73	0.59	75.37	110.20
5300.00	2.38	142.22	5297.87	-24.74	-26.88	71.38	0.81	76.28	110.64
5325.00	2.22	143.20	5322.85	-25.52	-27.68	71.99	0.65	77.13	111.03
5350.00	2.15	144.07	5347.83	-26.27	-28.45	72.55	0.32	77.93	111.41
5375.00	1.88	145.98	5372.81	-26.97	-29.17	73.06	1.10	78.67	111.76
5400.00	1.95	146.82	5397.80	-27.66	-29.86	73.52	0.30	79.35	112.11
5425.00	2.04	146.71	5422.78	-28.37	-30.59	74.00	0.38	80.07	112.46
5450.00	1.90	146.65	5447.77	-29.07	-31.31	74.47	0.57	80.79	112.80
5475.00	1.81	146.71	5472.76	-29.74	-31.99	74.92	0.38	81.46	113.12
5500.00	2.02	147.83	5497.74	-30.43	-32.69	75.37	0.87	82.15	113.45
5525.00	1.96	146.79	5522.73	-31.14	-33.42	75.83	0.29	82.87	113.78
5550.00	1.95	149.64	5547.71	-31.85	-34.14	76.28	0.39	83.58	114.11
5575.00	1.93	146.69	5572.70	-32.56	-34.86	76.73	0.41	84.28	114.44
5600.00	1.90	147.10	5597.68	-33.24	-35.56	77.19	0.13	84.98	114.74
5625.00	1.83	150.27	5622.67	-33.93	-36.26	77.61	0.49	85.66	115.04
5650.00	1.83	150.43	5647.66	-34.61	-36.95	78.00	0.02	86.31	115.35

MD	INC	AZIM	TVD	VS	N/S	E/W	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	ft	%100ft	ft	deg
5675.00	1.73	150.40	5672.65	-35.27	-37.63	78.39	0.42	86.95	115.64
5700.00	1.65	147.60	5697.63	-35.89	-38.26	78.77	0.44	87.57	115.91
5725.00	1.71	150.69	5722.62	-36.51	-38.89	79.14	0.43	88.18	116.17
5750.00	1.51	147.84	5747.61	-37.10	-39.49	79.50	0.86	88.77	116.42
5775.00	1.62	144.17	5772.60	-37.66	-40.06	79.88	0.59	89.37	116.63
5800.00	1.56	150.21	5797.59	-38.23	-40.64	80.26	0.71	89.96	116.86
5825.00	1.48	150.05	5822.59	-38.79	-41.22	80.59	0.32	90.52	117.09
5850.00	1.57	146.26	5847.58	-39.35	-41.78	80.94	0.54	91.09	117.30
5875.00	1.55	143.73	5872.57	-39.89	-42.34	81.33	0.29	91.69	117.50
5900.00	1.56	145.24	5897.56	-40.43	-42.89	81.72	0.17	92.30	117.69
5925.00	1.47	144.10	5922.55	-40.96	-43.43	82.11	0.38	92.88	117.87
5950.00	1.39	141.63	5947.54	-41.44	-43.92	82.48	0.39	93.45	118.04
5975.00	1.44	142.31	5972.53	-41.92	-44.41	82.86	0.23	94.01	118.19
6000.00	1.34	135.67	5997.53	-42.37	-44.87	83.26	0.76	94.58	118.32
6025.00	1.91	144.30	6022.52	-42.90	-45.42	83.71	2.46	95.24	118.48
6050.00	1.55	142.75	6047.51	-43.49	-46.03	84.16	1.43	95.92	118.67
6075.00	1.35	139.41	6072.50	-43.98	-46.52	84.55	0.90	96.50	118.82
6100.00	1.36	140.51	6097.49	-44.42	-46.97	84.93	0.13	97.06	118.94
6125.00	1.32	132.47	6122.48	-44.83	-47.40	85.33	0.77	97.61	119.05
6150.00	1.27	130.70	6147.48	-45.19	-47.77	85.76	0.25	98.16	119.12
6175.00	1.31	132.24	6172.47	-45.55	-48.14	86.18	0.21	98.71	119.19
6200.00	1.32	131.61	6197.46	-45.92	-48.53	86.61	0.06	99.27	119.26
6225.00	1.25	132.44	6222.46	-46.28	-48.90	87.02	0.30	99.82	119.33
6250.00	1.22	130.60	6247.45	-46.63	-49.26	87.42	0.19	100.34	119.40
6275.00	1.19	126.43	6272.45	-46.94	-49.58	87.83	0.37	100.86	119.45
6300.00	1.24	129.22	6297.44	-47.25	-49.91	88.25	0.33	101.39	119.49
6325.00	1.18	130.31	6322.44	-47.58	-50.25	88.66	0.29	101.91	119.54
6350.00	1.21	128.60	6347.43	-47.90	-50.58	89.06	0.19	102.42	119.59
6375.00	1.04	124.25	6372.43	-48.18	-50.87	89.45	0.75	102.91	119.63
6400.00	1.12	131.04	6397.42	-48.46	-51.16	89.83	0.61	103.37	119.66
6425.00	1.00	130.81	6422.42	-48.75	-51.46	90.18	0.50	103.83	119.71
6450.00	0.98	122.70	6447.41	-49.00	-51.72	90.52	0.57	104.25	119.74

MD	INC	AZIM	TVD	VS	N/S	E/W	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	ft	/100ft	ft	deg
6475.00	1.03	124.08	6472.41	-49.23	-51.96	90.89	0.24	104.69	119.76
6500.00	0.99	126.87	6497.41	-49.47	-52.22	91.24	0.27	105.13	119.78
6525.00	1.01	123.57	6522.40	-49.71	-52.47	91.60	0.25	105.56	119.80
6550.00	1.01	123.90	6547.40	-49.94	-52.71	91.97	0.03	106.00	119.82
6575.00	0.99	120.43	6572.39	-50.17	-52.94	92.34	0.25	106.44	119.83
6600.00	0.99	123.30	6597.39	-50.38	-53.17	92.70	0.20	106.87	119.84
6625.00	0.96	123.43	6622.39	-50.61	-53.41	93.06	0.11	107.29	119.85
6650.00	1.00	124.20	6647.38	-50.83	-53.64	93.41	0.16	107.72	119.87
6675.00	1.01	121.12	6672.38	-51.06	-53.88	93.78	0.23	108.16	119.88
6700.00	1.04	120.81	6697.38	-51.28	-54.11	94.17	0.09	108.61	119.88
6725.00	1.11	120.92	6722.37	-51.50	-54.35	94.57	0.29	109.07	119.89
6750.00	1.28	114.05	6747.37	-51.73	-54.59	95.03	0.89	109.59	119.87
6775.00	1.66	108.44	6772.36	-51.94	-54.82	95.63	1.64	110.23	119.82
6800.00	1.74	102.83	6797.35	-52.12	-55.02	96.34	0.74	110.95	119.73
6825.00	1.77	107.18	6822.33	-52.29	-55.22	97.08	0.54	111.69	119.63
6850.00	1.73	104.24	6847.32	-52.48	-55.42	97.82	0.38	112.43	119.54
6875.00	1.75	104.40	6872.31	-52.64	-55.61	98.55	0.06	113.16	119.43
6900.00	1.70	105.91	6897.30	-52.82	-55.81	99.28	0.25	113.89	119.34
6925.00	1.72	105.92	6922.29	-53.00	-56.01	100.00	0.07	114.62	119.25
6950.00	1.65	103.90	6947.28	-53.17	-56.20	100.71	0.37	115.33	119.16
6975.00	1.77	103.99	6972.27	-53.33	-56.38	101.43	0.49	116.05	119.07
7000.00	1.61	106.69	6997.26	-53.50	-56.58	102.14	0.71	116.77	118.98
7025.00	1.62	102.38	7022.25	-53.66	-56.75	102.83	0.49	117.45	118.90
7050.00	1.48	104.96	7047.24	-53.80	-56.91	103.48	0.65	118.10	118.81
7075.00	1.35	102.39	7072.23	-53.93	-57.06	104.08	0.57	118.70	118.73
7100.00	1.37	106.01	7097.22	-54.05	-57.20	104.66	0.36	119.27	118.66
7125.00	1.30	103.25	7122.22	-54.19	-57.35	105.22	0.39	119.83	118.59
7150.00	1.27	98.60	7147.21	-54.27	-57.46	105.77	0.43	120.37	118.51
7175.00	1.37	103.83	7172.20	-54.37	-57.57	106.33	0.62	120.92	118.43
7200.00	1.29	103.78	7197.20	-54.49	-57.71	106.90	0.31	121.48	118.36
7225.00	1.21	102.48	7222.19	-54.60	-57.83	107.43	0.33	122.01	118.30
7250.00	1.23	104.96	7247.18	-54.71	-57.96	107.95	0.23	122.52	118.23

MD	INC	AZIM	TV	VS	HN/S	TE/W	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	ft	%/100ft	ft	deg
7275.00	1.18	97.53	7272.18	-54.80	-58.06	108.46	0.66	123.03	118.16
7300.00	1.21	103.93	7297.17	-54.88	-58.16	108.98	0.55	123.52	118.09
7325.00	1.10	99.32	7322.17	-54.97	-58.26	109.47	0.59	124.01	118.02
7350.00	1.15	92.07	7347.16	-55.00	-58.31	109.95	0.61	124.46	117.94
7375.00	1.12	88.51	7372.16	-54.99	-58.31	110.45	0.31	124.90	117.83
7400.00	1.22	93.36	7397.15	-54.98	-58.32	110.96	0.57	125.35	117.73
7425.00	1.17	87.33	7422.15	-54.97	-58.33	111.48	0.53	125.81	117.62
7450.00	1.19	91.07	7447.14	-54.95	-58.32	111.99	0.31	126.27	117.51
7475.00	1.12	84.24	7472.14	-54.92	-58.30	112.50	0.60	126.70	117.39
7500.00	1.16	93.32	7497.13	-54.89	-58.29	112.99	0.73	127.14	117.29
7525.00	1.12	89.22	7522.13	-54.89	-58.30	113.49	0.35	127.59	117.19
7550.00	1.10	87.28	7547.12	-54.86	-58.28	113.97	0.19	128.01	117.08
7575.00	1.19	88.58	7572.12	-54.83	-58.27	114.47	0.37	128.45	116.98
7600.00	1.15	88.01	7597.11	-54.79	-58.25	114.98	0.14	128.89	116.87
7625.00	1.28	93.60	7622.11	-54.79	-58.26	115.51	0.70	129.37	116.77
7650.00	1.34	92.65	7647.10	-54.80	-58.29	116.08	0.26	129.90	116.66
7675.00	1.42	96.27	7672.09	-54.83	-58.34	116.68	0.47	130.46	116.56
7700.00	1.40	95.44	7697.09	-54.88	-58.40	117.30	0.14	131.03	116.47
7725.00	1.34	92.18	7722.08	-54.90	-58.44	117.89	0.39	131.58	116.37
7750.00	1.40	93.42	7747.07	-54.91	-58.47	118.49	0.29	132.13	116.27
7775.00	1.48	92.64	7772.06	-54.92	-58.50	119.12	0.33	132.71	116.16
7800.00	1.71	96.57	7797.05	-54.96	-58.56	119.81	0.99	133.36	116.05
7825.00	2.10	97.82	7822.04	-55.04	-58.67	120.63	1.58	134.14	115.93
7850.00	2.16	100.01	7847.02	-55.16	-58.81	121.55	0.40	135.03	115.82
7875.00	2.22	97.62	7872.00	-55.28	-58.96	122.50	0.43	135.95	115.70
7900.00	2.12	96.39	7896.99	-55.36	-59.07	123.43	0.45	136.84	115.57
7925.00	2.14	96.75	7921.97	-55.44	-59.18	124.36	0.11	137.72	115.45
7950.00	2.13	96.79	7946.95	-55.52	-59.29	125.28	0.04	138.60	115.33
7975.00	2.30	100.08	7971.93	-55.64	-59.43	126.24	0.84	139.53	115.21
8000.00	2.15	98.93	7996.91	-55.77	-59.59	127.19	0.62	140.46	115.10
8025.00	2.23	95.74	8021.90	-55.86	-59.71	128.14	0.58	141.37	114.99
8050.00	2.15	97.86	8046.88	-55.95	-59.83	129.09	0.47	142.28	114.87

MD	INC	AZIM	TVD	VS	INCL	FEAW	DLS	CLOSURE	CLOSURE
ft	deg	deg	ft	ft	ft	ft	%/100ft	DIST	DIR
8075.00	2.15	93.21	8071.86	-56.01	-59.92	130.02	0.70	143.16	114.74
8100.00	1.96	96.55	8096.84	-56.06	-59.99	130.91	0.89	144.00	114.62
8125.00	1.80	97.56	8121.83	-56.13	-60.09	131.73	0.64	144.79	114.52
8150.00	1.69	96.76	8146.82	-56.21	-60.19	132.48	0.47	145.51	114.43
8175.00	1.62	94.55	8171.81	-56.26	-60.26	133.20	0.37	146.20	114.34
8200.00	1.67	96.32	8196.80	-56.30	-60.33	133.92	0.28	146.88	114.25
8225.00	1.61	96.87	8221.79	-56.36	-60.41	134.63	0.27	147.56	114.17
8250.00	1.59	97.37	8246.78	-56.43	-60.50	135.32	0.09	148.23	114.09
8275.00	1.79	97.44	8271.77	-56.50	-60.59	136.05	0.81	148.93	114.01
8300.00	1.87	97.81	8296.75	-56.59	-60.70	136.84	0.31	149.70	113.92
8325.00	1.82	99.81	8321.74	-56.68	-60.82	137.63	0.32	150.47	113.84
8350.00	1.88	94.36	8346.73	-56.76	-60.92	138.43	0.75	151.24	113.75
8375.00	1.86	96.30	8371.72	-56.81	-60.99	139.25	0.27	152.02	113.65
8400.00	1.93	95.46	8396.70	-56.87	-61.08	140.07	0.28	152.81	113.56
8425.00	1.88	96.88	8421.69	-56.94	-61.17	140.89	0.25	153.60	113.47
8450.00	1.92	93.54	8446.67	-56.99	-61.24	141.72	0.46	154.39	113.37
8475.00	2.09	92.44	8471.66	-57.01	-61.29	142.59	0.70	155.20	113.26
8500.00	2.04	94.01	8496.64	-57.03	-61.34	143.49	0.29	156.05	113.15
8525.00	2.10	92.40	8521.63	-57.05	-61.39	144.39	0.32	156.90	113.03
8550.00	2.02	91.15	8546.61	-57.05	-61.42	145.29	0.35	157.74	112.91
8575.00	2.01	88.98	8571.59	-57.03	-61.42	146.17	0.31	158.55	112.79
8600.00	2.04	88.01	8596.58	-56.98	-61.39	147.05	0.18	159.35	112.66
8625.00	2.03	90.23	8621.56	-56.94	-61.38	147.94	0.32	160.16	112.53
8650.00	2.30	92.67	8646.55	-56.94	-61.41	148.88	1.12	161.05	112.41
8675.00	2.78	96.09	8671.52	-56.99	-61.49	149.98	2.02	162.10	112.29
8700.00	3.16	100.92	8696.49	-57.15	-61.69	151.26	1.83	163.36	112.19
8725.00	3.20	100.19	8721.45	-57.36	-61.94	152.63	0.21	164.72	112.09
8750.00	3.26	100.61	8746.41	-57.57	-62.20	154.01	0.29	166.10	111.99
8775.00	3.23	101.05	8771.37	-57.80	-62.46	155.40	0.16	167.49	111.90
8800.00	3.25	100.72	8796.33	-58.02	-62.73	156.79	0.09	168.87	111.81
8825.00	3.30	101.67	8821.29	-58.26	-63.01	158.19	0.30	170.28	111.72
8850.00	3.30	103.56	8846.25	-58.53	-63.32	159.60	0.44	171.70	111.64

MD	INC	AZIM	TVD	VS	N/S	E/W	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	ft	%/100ft	ft	deg
8875.00	3.23	102.45	8871.21	-58.81	-63.64	160.98	0.40	173.11	111.57
8900.00	3.28	102.51	8896.17	-59.08	-63.95	162.37	0.22	174.51	111.50
8925.00	3.33	102.47	8921.12	-59.34	-64.26	163.78	0.20	175.93	111.42
8950.00	3.30	101.95	8946.08	-59.61	-64.57	165.19	0.16	177.36	111.35
8975.00	3.22	103.80	8971.04	-59.88	-64.88	166.58	0.53	178.77	111.28
9000.00	3.09	103.61	8996.00	-60.17	-65.21	167.92	0.54	180.13	111.22
9025.00	3.04	101.48	9020.97	-60.42	-65.50	169.22	0.50	181.45	111.16
9050.00	3.08	104.33	9045.93	-60.68	-65.80	170.52	0.63	182.77	111.10
9075.00	2.92	102.96	9070.90	-60.95	-66.11	171.79	0.69	184.07	111.05
9100.00	2.76	101.76	9095.87	-61.18	-66.37	173.00	0.71	185.30	110.99
9125.00	2.68	101.16	9120.84	-61.38	-66.61	174.16	0.32	186.47	110.93
9150.00	2.67	101.88	9145.81	-61.58	-66.84	175.31	0.14	187.62	110.87
9175.00	2.62	103.03	9170.79	-61.80	-67.09	176.44	0.31	188.76	110.82
9200.00	2.55	101.82	9195.76	-62.01	-67.33	177.54	0.36	189.88	110.77
9225.00	2.40	101.09	9220.74	-62.19	-67.55	178.59	0.60	190.94	110.72
9250.00	2.32	102.18	9245.72	-62.37	-67.75	179.60	0.37	191.96	110.67
9275.00	2.36	99.28	9270.69	-62.52	-67.94	180.60	0.50	192.96	110.62
9300.00	2.23	99.90	9295.67	-62.66	-68.11	181.59	0.50	193.94	110.56
9325.00	2.08	99.76	9320.66	-62.79	-68.27	182.52	0.63	194.87	110.51
9350.00	1.99	98.75	9345.64	-62.91	-68.41	183.39	0.39	195.74	110.46
9375.00	1.83	99.16	9370.63	-63.02	-68.54	184.21	0.62	196.55	110.41
9400.00	1.70	97.77	9395.62	-63.11	-68.66	184.97	0.57	197.31	110.36
9425.00	1.60	95.79	9420.61	-63.17	-68.74	185.69	0.46	198.00	110.31
9450.00	1.43	93.34	9445.60	-63.20	-68.80	186.35	0.70	198.64	110.26
9475.00	1.35	90.82	9470.59	-63.21	-68.82	186.95	0.41	199.22	110.21
9500.00	1.25	90.97	9495.58	-63.20	-68.83	187.52	0.40	199.75	110.16
9525.00	1.14	87.94	9520.58	-63.18	-68.82	188.04	0.49	200.24	110.10
9550.00	0.99	85.81	9545.57	-63.14	-68.80	188.51	0.65	200.67	110.05
9575.00	0.90	91.50	9570.57	-63.12	-68.79	188.92	0.51	201.05	110.01
9600.00	0.84	93.46	9595.57	-63.12	-68.80	189.30	0.26	201.41	109.97
9625.00	0.80	97.26	9620.56	-63.15	-68.84	189.65	0.28	201.76	109.95
9650.00	0.86	103.01	9645.56	-63.20	-68.90	190.01	0.41	202.12	109.93

MD	INC	AZIM	TVD	VS	N/S	E/W	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	ft	/100ft	ft	deg
9675.00	0.97	105.43	9670.56	-63.29	-69.00	190.40	0.47	202.51	109.92
9700.00	1.13	113.23	9695.55	-63.43	-69.15	190.83	0.88	202.97	109.92
9725.00	1.28	118.67	9720.55	-63.65	-69.39	191.30	0.75	203.49	109.94
9750.00	1.36	121.66	9745.54	-63.92	-69.68	191.80	0.42	204.06	109.96
9775.00	1.46	121.10	9770.53	-64.23	-70.00	192.32	0.39	204.67	110.00
9800.00	1.76	121.93	9795.52	-64.58	-70.36	192.92	1.22	205.35	110.04
9825.00	2.18	120.92	9820.51	-65.00	-70.81	193.66	1.66	206.20	110.09
9850.00	2.37	120.98	9845.49	-65.49	-71.32	194.51	0.77	207.17	110.14
9875.00	2.35	120.79	9870.47	-65.99	-71.85	195.39	0.09	208.18	110.19
9900.00	2.41	119.56	9895.45	-66.48	-72.37	196.29	0.31	209.20	110.24
9925.00	2.42	119.90	9920.42	-66.98	-72.89	197.20	0.08	210.24	110.29
9950.00	2.36	119.27	9945.40	-67.46	-73.41	198.11	0.28	211.27	110.33
9975.00	2.34	117.06	9970.38	-67.92	-73.89	199.01	0.37	212.29	110.37
10000.00	2.27	117.24	9995.36	-68.35	-74.35	199.91	0.27	213.29	110.40
10025.00	2.23	117.04	10020.34	-68.77	-74.80	200.78	0.19	214.26	110.43
10050.00	2.20	115.30	10045.32	-69.17	-75.23	201.65	0.29	215.22	110.46
10075.00	2.11	115.41	10070.31	-69.55	-75.63	202.50	0.37	216.16	110.48
10100.00	2.08	110.27	10095.29	-69.88	-75.98	203.34	0.76	217.07	110.49
10125.00	1.99	109.22	10120.27	-70.16	-76.28	204.17	0.41	217.96	110.49
10150.00	1.88	108.00	10145.26	-70.40	-76.55	204.97	0.45	218.80	110.48
10175.00	1.60	106.77	10170.25	-70.61	-76.78	205.70	1.15	219.56	110.47
10200.00	1.34	109.23	10195.24	-70.79	-76.98	206.31	1.05	220.20	110.46
10225.00	1.10	107.07	10220.23	-70.94	-77.14	206.81	0.99	220.73	110.46
10250.00	0.82	105.05	10245.23	-71.04	-77.26	207.22	1.14	221.15	110.45
10275.00	0.72	103.79	10270.23	-71.12	-77.34	207.54	0.40	221.48	110.44
10300.00	0.72	98.22	10295.23	-71.17	-77.40	207.85	0.28	221.79	110.43
10325.00	0.60	110.66	10320.22	-71.23	-77.47	208.13	0.74	222.08	110.42
10350.00	0.68	93.82	10345.22	-71.28	-77.53	208.40	0.82	222.35	110.41
10375.00	0.51	102.04	10370.22	-71.30	-77.56	208.66	0.78	222.61	110.39
10400.00	0.41	88.62	10395.22	-71.32	-77.58	208.86	0.58	222.80	110.38
10425.00	0.48	95.30	10420.22	-71.32	-77.59	209.05	0.33	222.98	110.36
10450.00	0.46	79.56	10445.22	-71.30	-77.58	209.25	0.52	223.17	110.34

MD ft	INC deg	AZIM deg	TVD ft	VS ft	N/S ft	E/W ft	DLS %/100ft	CLOSURE DIST ft	CLOSURE DIR deg
10475.00	0.47	60.51	10470.22	-71.23	-77.51	209.44	0.61	223.32	110.31
10500.00	0.51	56.16	10495.22	-71.11	-77.40	209.62	0.22	223.45	110.27
10525.00	0.68	51.38	10520.22	-70.95	-77.25	209.83	0.71	223.59	110.21
10550.00	0.79	45.03	10545.21	-70.73	-77.03	210.06	0.53	223.74	110.14
10575.00	0.80	41.23	10570.21	-70.47	-76.78	210.30	0.21	223.88	110.06
10600.00	0.78	46.78	10595.21	-70.22	-76.53	210.54	0.31	224.02	109.98
10625.00	0.84	44.27	10620.21	-69.96	-76.29	210.79	0.27	224.17	109.90
10650.00	0.78	43.94	10645.20	-69.70	-76.03	211.04	0.22	224.32	109.81
10675.00	0.82	46.92	10670.20	-69.45	-75.79	211.29	0.23	224.47	109.73
10700.00	0.85	46.44	10695.20	-69.19	-75.54	211.55	0.11	224.63	109.65
10725.00	0.84	49.06	10720.20	-68.94	-75.29	211.82	0.16	224.81	109.57
10750.00	0.91	53.94	10745.19	-68.69	-75.05	212.12	0.42	225.01	109.48
10775.00	1.08	78.62	10770.19	-68.51	-74.89	212.51	1.82	225.32	109.41
10800.00	1.50	91.83	10795.18	-68.46	-74.85	213.07	2.03	225.84	109.36
10825.00	1.67	95.54	10820.17	-68.49	-74.90	213.76	0.80	226.50	109.31
10850.00	1.66	93.73	10845.16	-68.52	-74.96	214.48	0.21	227.20	109.26
10875.00	1.90	98.04	10870.15	-68.58	-75.04	215.25	1.08	227.96	109.22
10900.00	2.09	104.51	10895.14	-68.73	-75.21	216.10	1.17	228.82	109.19
10925.00	2.17	105.73	10920.12	-68.94	-75.45	217.00	0.40	229.74	109.17
10950.00	2.17	108.11	10945.10	-69.19	-75.73	217.91	0.36	230.69	109.16
10975.00	2.13	111.14	10970.08	-69.48	-76.04	218.79	0.49	231.63	109.17
11000.00	2.16	111.35	10995.07	-69.79	-76.38	219.66	0.16	232.56	109.17
11025.00	2.36	109.46	11020.05	-70.11	-76.73	220.59	0.85	233.55	109.18
11050.00	2.43	117.70	11045.02	-70.50	-77.14	221.54	1.40	234.59	109.20
11075.00	2.52	119.46	11070.00	-70.99	-77.66	222.49	0.47	235.65	109.24
11100.00	2.66	118.08	11094.98	-71.50	-78.20	223.48	0.64	236.77	109.29
11125.00	2.61	120.55	11119.95	-72.03	-78.77	224.48	0.50	237.90	109.33
11150.00	2.62	121.03	11144.92	-72.59	-79.35	225.46	0.10	239.02	109.39
11175.00	2.55	120.15	11169.90	-73.13	-79.92	226.43	0.34	240.13	109.44
11200.00	2.55	119.53	11194.87	-73.66	-80.48	227.40	0.11	241.22	109.49
11225.00	2.71	121.28	11219.85	-74.21	-81.06	228.39	0.69	242.35	109.54
11250.00	3.17	125.74	11244.81	-74.89	-81.77	229.45	2.08	243.59	109.61

MD	INC	AZIM	TVD	VS	N/S	E/W	DLS	CLOSURE	CLOSURE
ft	deg	deg	ft	ft	ft	ft	/100ft	DIST	DIR
11275.00	3.58	127.96	11269.77	-75.74	-82.65	230.63	1.71	245.00	109.72
11300.00	3.64	127.55	11294.72	-76.66	-83.62	231.88	0.25	246.49	109.83
11325.00	3.56	128.19	11319.67	-77.59	-84.58	233.12	0.34	247.99	109.94
11350.00	3.37	130.10	11344.63	-78.51	-85.54	234.29	0.92	249.41	110.06
11375.00	3.18	131.88	11369.59	-79.41	-86.47	235.36	0.85	250.75	110.17
11400.00	3.03	132.85	11394.55	-80.29	-87.38	236.37	0.62	252.00	110.29
11425.00	2.94	133.59	11419.51	-81.15	-88.27	237.31	0.41	253.20	110.40
11450.00	2.72	139.74	11444.48	-82.02	-89.17	238.16	1.49	254.31	110.53
11475.00	2.59	140.66	11469.46	-82.89	-90.06	238.90	0.58	255.32	110.65
11500.00	2.42	138.61	11494.43	-83.70	-90.89	239.61	0.76	256.27	110.77
11525.00	2.36	136.19	11519.41	-84.45	-91.66	240.32	0.47	257.20	110.88
11550.00	2.04	133.43	11544.39	-85.10	-92.34	241.00	1.33	258.08	110.96
11575.00	1.91	137.31	11569.38	-85.70	-92.95	241.60	0.76	258.86	111.04
11600.00	1.86	142.94	11594.36	-86.31	-93.58	242.13	0.77	259.58	111.13
11625.00	1.75	142.20	11619.35	-86.92	-94.20	242.61	0.41	260.25	111.22
11650.00	1.56	153.15	11644.34	-87.52	-94.81	242.99	1.49	260.84	111.31
11675.00	1.43	147.38	11669.33	-88.07	-95.37	243.32	0.79	261.34	111.40
11700.00	1.14	161.36	11694.33	-88.56	-95.87	243.56	1.70	261.75	111.49