

COG

LITTLE BEAR FEDERAL COM #5H

ENSIGN #155

10/8/2018

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

JAKE ELGER

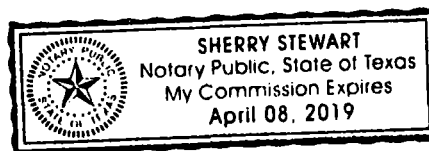
Notarized this date 2nd of NOVEMBER, 2018.

Sherry Stewart

Notary Signature

County of Midland

State of Texas



Scientific Drilling

The COG In Wellbore Placement

SURVEY REPORT

LITTLE BEAR FEDERAL COM #5H

DEFINITIVE KEEPER GYRO SURVEY

CUSTOMER
PROJECT
FIELD

COG
Little Bear Federal Com #5H
Little Bear Federal Com #5H

SDI JOB NO.
SDI DISTRICT
SDI KIT/UNIT

OP.013637
Midland

SITE INFORMATION

Site Name
Lat/Long
Northing
Easting

Little Bear Federal Com #5H
32.5241149° N , 103.5631835° W
555,243.2 ft
737,377.4 ft

Section
Township
Range

MAP INFORMATION

North Reference
Grid Correction
System
Datum
Map Zone

Grid North
-0.41 deg
US State Plane 1983
North American Datum 1983 (GRS 1980)
New York East: 3101

**WELL INFORMATION**

Lat/Long
Northing
Easting
UWI

32.5232542° N , 103.5698102° W
554,915.4 ft
735,337.1 ft
30-025-45101

DEPTH AND ELEVATION REFERENCE

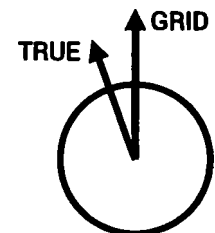
Ground Level
Level
Reference Datum
Reference Height
Reference Elevation

3807.5 ft above Mean Sea
Level
RKB
24 ft above G.L.
3831.5 ft

VERTICAL SECTION REFERENCE

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

0 ft
0 ft
353.66°
Minimum Curvature

**LOCAL GRAVITY REFERENCE INFORMATION**

Local Gravity
True to Grid

998.487 mG [computed]
subtract 0.41°

WELL NOTES

Keeper Gyro Survey ran in 4 1/2 IF Drill Pipe to 10,761'

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	0.44	271.10	100.00	0.05	0.01	-0.39	0.44	0.39	271.10
125.00	0.55	271.89	125.00	0.08	0.01	-0.60	0.44	0.60	271.26
150.00	0.46	272.37	150.00	0.11	0.02	-0.82	0.38	0.82	271.48
175.00	0.55	268.65	175.00	0.14	0.02	-1.04	0.37	1.04	271.25
200.00	0.59	269.23	199.99	0.16	0.02	-1.29	0.16	1.29	270.81
225.00	0.62	272.22	224.99	0.19	0.02	-1.55	0.17	1.55	270.80
250.00	0.47	269.16	249.99	0.22	0.03	-1.79	0.61	1.79	270.81
275.00	0.47	275.38	274.99	0.25	0.03	-1.99	0.20	1.99	270.96
300.00	0.45	274.58	299.99	0.29	0.05	-2.19	0.06	2.19	271.33
325.00	0.48	269.16	324.99	0.32	0.06	-2.39	0.21	2.40	271.37
350.00	0.48	268.65	349.99	0.34	0.05	-2.60	0.03	2.60	271.17
375.00	0.42	269.78	374.99	0.36	0.05	-2.80	0.22	2.80	271.03
400.00	0.49	267.44	399.99	0.38	0.05	-3.00	0.28	3.00	270.87
425.00	0.54	270.91	424.99	0.40	0.04	-3.22	0.23	3.22	270.76
450.00	0.61	265.73	449.99	0.42	0.03	-3.47	0.36	3.47	270.57
475.00	0.48	268.33	474.98	0.43	0.02	-3.71	0.53	3.71	270.33
500.00	0.49	272.40	499.98	0.46	0.02	-3.92	0.15	3.92	270.34
525.00	0.43	271.45	524.98	0.48	0.03	-4.12	0.23	4.12	270.41
550.00	0.52	271.21	549.98	0.51	0.03	-4.33	0.34	4.33	270.46
575.00	0.46	268.38	574.98	0.54	0.03	-4.54	0.24	4.54	270.43
600.00	0.54	271.84	599.98	0.56	0.04	-4.76	0.33	4.76	270.42
625.00	0.52	259.36	624.98	0.57	0.02	-4.99	0.47	4.99	270.21
650.00	0.61	257.80	649.98	0.55	-0.03	-5.23	0.40	5.23	269.66
675.00	0.65	254.69	674.98	0.51	-0.10	-5.50	0.20	5.50	268.99
700.00	0.63	253.39	699.97	0.46	-0.17	-5.77	0.09	5.77	268.27
725.00	0.74	247.98	724.97	0.40	-0.27	-6.05	0.48	6.06	267.41
750.00	0.74	247.97	749.97	0.31	-0.39	-6.35	0.00	6.36	266.45
775.00	0.81	241.59	774.97	0.20	-0.54	-6.65	0.46	6.67	265.37
800.00	0.97	239.48	799.97	0.05	-0.73	-6.99	0.64	7.03	264.03
825.00	0.98	234.50	824.96	-0.14	-0.96	-7.35	0.34	7.41	262.54
850.00	1.05	233.81	849.96	-0.36	-1.22	-7.71	0.29	7.80	260.99

MD	INC	AZIM	TVD	VS	+N/-S	+E/-W	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	ft	°/100ft	ft	deg
875.00	1.02	235.46	874.95	-0.58	-1.48	-8.07	0.18	8.21	259.60
900.00	1.10	232.97	899.95	-0.81	-1.75	-8.45	0.39	8.63	258.28
925.00	1.14	230.03	924.94	-1.07	-2.06	-8.83	0.27	9.07	256.89
950.00	1.21	228.85	949.94	-1.36	-2.39	-9.22	0.32	9.52	255.47
975.00	1.22	227.22	974.93	-1.67	-2.75	-9.61	0.14	10.00	254.06
1000.00	1.23	225.04	999.93	-1.99	-3.12	-10.00	0.19	10.47	252.69
1025.00	1.21	226.75	1024.92	-2.32	-3.49	-10.38	0.16	10.95	251.44
1050.00	1.34	229.95	1049.92	-2.64	-3.86	-10.80	0.58	11.47	250.35
1075.00	1.28	226.61	1074.91	-2.97	-4.24	-11.23	0.40	12.00	249.32
1100.00	1.30	223.99	1099.90	-3.32	-4.63	-11.63	0.25	12.51	248.28
1125.00	1.25	227.10	1124.90	-3.66	-5.02	-12.02	0.34	13.03	247.33
1150.00	1.32	225.49	1149.89	-4.00	-5.41	-12.43	0.33	13.55	246.48
1175.00	1.45	227.57	1174.88	-4.37	-5.83	-12.87	0.54	14.13	245.64
1200.00	1.33	229.20	1199.88	-4.72	-6.23	-13.32	0.49	14.71	244.94
1225.00	1.40	231.26	1224.87	-5.05	-6.61	-13.78	0.34	15.28	244.37
1250.00	1.42	229.34	1249.86	-5.39	-7.00	-14.25	0.20	15.88	243.83
1275.00	1.41	230.01	1274.85	-5.73	-7.40	-14.72	0.07	16.48	243.31
1300.00	1.36	230.28	1299.85	-6.07	-7.79	-15.19	0.19	17.07	242.84
1325.00	1.29	237.13	1324.84	-6.36	-8.13	-15.65	0.69	17.64	242.54
1350.00	1.24	237.19	1349.83	-6.60	-8.43	-16.12	0.21	18.19	242.38
1375.00	1.36	238.31	1374.83	-6.85	-8.74	-16.60	0.47	18.76	242.24
1400.00	1.38	239.70	1399.82	-7.10	-9.04	-17.11	0.17	19.35	242.14
1425.00	1.29	244.64	1424.81	-7.31	-9.32	-17.62	0.60	19.93	242.14
1450.00	1.31	246.00	1449.81	-7.49	-9.55	-18.14	0.15	20.50	242.23
1475.00	1.30	248.19	1474.80	-7.65	-9.77	-18.66	0.21	21.07	242.36
1500.00	1.36	246.02	1499.79	-7.82	-10.00	-19.20	0.34	21.64	242.48
1525.00	1.33	245.24	1524.79	-8.00	-10.24	-19.73	0.15	22.23	242.57
1550.00	1.51	247.22	1549.78	-8.19	-10.49	-20.30	0.75	22.85	242.67
1575.00	1.36	246.87	1574.77	-8.36	-10.74	-20.88	0.63	23.47	242.79
1600.00	1.37	245.45	1599.76	-8.54	-10.98	-21.42	0.14	24.07	242.87
1625.00	1.35	247.00	1624.76	-8.72	-11.21	-21.96	0.17	24.66	242.95
1650.00	1.45	245.68	1649.75	-8.90	-11.46	-22.52	0.43	25.27	243.03

MD ft	INC deg	AZIM deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS °/100ft	CLOSURE DIST ft	CLOSURE DIR deg
1675.00	1.37	243.34	1674.74	-9.10	-11.72	-23.07	0.39	25.88	243.07
1700.00	1.43	244.69	1699.73	-9.31	-11.99	-23.62	0.28	26.49	243.09
1725.00	1.35	244.04	1724.73	-9.51	-12.25	-24.17	0.33	27.10	243.12
1750.00	1.47	244.61	1749.72	-9.71	-12.52	-24.72	0.49	27.71	243.14
1775.00	1.35	243.77	1774.71	-9.92	-12.79	-25.28	0.50	28.33	243.17
1800.00	1.50	245.28	1799.70	-10.12	-13.05	-25.84	0.61	28.95	243.20
1825.00	1.41	242.34	1824.70	-10.33	-13.33	-26.41	0.46	29.58	243.21
1850.00	1.42	244.48	1849.69	-10.55	-13.61	-26.96	0.22	30.20	243.22
1875.00	1.39	246.11	1874.68	-10.74	-13.87	-27.52	0.23	30.81	243.26
1900.00	1.43	243.84	1899.67	-10.94	-14.13	-28.07	0.30	31.43	243.29
1925.00	1.29	238.78	1924.67	-11.16	-14.41	-28.60	0.74	32.02	243.26
1950.00	1.30	235.20	1949.66	-11.42	-14.72	-29.07	0.33	32.58	243.15
1975.00	1.42	232.29	1974.65	-11.71	-15.07	-29.55	0.54	33.17	242.98
2000.00	1.42	224.85	1999.65	-12.07	-15.48	-30.01	0.74	33.77	242.72
2025.00	1.45	219.19	2024.64	-12.48	-15.94	-30.43	0.58	34.35	242.35
2050.00	1.52	220.90	2049.63	-12.93	-16.44	-30.85	0.33	34.95	241.95
2075.00	1.51	219.32	2074.62	-13.39	-16.94	-31.27	0.17	35.57	241.55
2100.00	1.48	219.68	2099.61	-13.84	-17.45	-31.69	0.12	36.17	241.16
2125.00	1.55	217.26	2124.60	-14.31	-17.97	-32.10	0.36	36.78	240.76
2150.00	1.51	218.62	2149.59	-14.79	-18.49	-32.51	0.21	37.40	240.37
2175.00	1.54	218.21	2174.59	-15.26	-19.01	-32.92	0.12	38.02	239.99
2200.00	1.36	216.90	2199.58	-15.72	-19.51	-33.31	0.73	38.60	239.64
2225.00	1.41	219.47	2224.57	-16.15	-19.99	-33.68	0.33	39.17	239.31
2250.00	1.35	220.38	2249.56	-16.56	-20.45	-34.07	0.28	39.73	239.02
2275.00	1.31	225.04	2274.56	-16.94	-20.88	-34.46	0.45	40.29	238.79
2300.00	1.10	231.19	2299.55	-17.25	-21.23	-34.85	1.00	40.81	238.65
2325.00	1.14	238.03	2324.55	-17.49	-21.51	-35.25	0.56	41.29	238.61
2350.00	1.23	245.51	2349.54	-17.68	-21.75	-35.70	0.71	41.81	238.65
2375.00	1.47	255.16	2374.53	-17.81	-21.95	-36.26	1.31	42.38	238.81
2400.00	1.41	251.27	2399.53	-17.92	-22.13	-36.86	0.45	42.99	239.02
2425.00	1.49	254.20	2424.52	-18.04	-22.31	-37.46	0.42	43.60	239.22
2450.00	1.51	254.82	2449.51	-18.15	-22.49	-38.09	0.10	44.23	239.44

MD ft	INC deg	AZIM deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS °/100ft	CLOSURE DIST ft	CLOSURE DIR deg
2475.00	1.63	255.10	2474.50	-18.25	-22.67	-38.75	0.48	44.89	239.67
2500.00	1.64	256.60	2499.49	-18.35	-22.84	-39.44	0.18	45.58	239.92
2525.00	1.56	256.05	2524.48	-18.43	-23.01	-40.12	0.31	46.25	240.17
2550.00	1.56	255.60	2549.47	-18.53	-23.17	-40.78	0.05	46.90	240.39
2575.00	1.49	255.32	2574.46	-18.62	-23.34	-41.42	0.29	47.55	240.60
2600.00	1.25	253.48	2599.45	-18.72	-23.50	-42.00	0.97	48.13	240.77
2625.00	1.04	247.77	2624.45	-18.83	-23.66	-42.47	0.97	48.62	240.88
2650.00	0.91	242.03	2649.45	-18.96	-23.84	-42.86	0.65	49.04	240.91
2675.00	0.82	238.05	2674.44	-19.11	-24.03	-43.18	0.42	49.42	240.91
2700.00	0.74	236.18	2699.44	-19.26	-24.21	-43.47	0.34	49.76	240.88
2725.00	0.46	225.54	2724.44	-19.40	-24.37	-43.68	1.19	50.02	240.84
2750.00	0.33	194.75	2749.44	-19.53	-24.51	-43.77	0.98	50.16	240.75
2775.00	0.29	176.13	2774.44	-19.66	-24.65	-43.78	0.43	50.24	240.62
2800.00	0.35	143.77	2799.44	-19.79	-24.77	-43.73	0.74	50.26	240.47
2825.00	0.28	140.39	2824.44	-19.91	-24.88	-43.65	0.26	50.24	240.32
2850.00	0.39	123.33	2849.44	-20.01	-24.97	-43.54	0.57	50.19	240.16
2875.00	0.43	117.85	2874.44	-20.12	-25.06	-43.38	0.22	50.10	239.99
2900.00	0.65	114.56	2899.44	-20.24	-25.16	-43.17	0.90	49.97	239.76
2925.00	0.80	108.33	2924.43	-20.39	-25.28	-42.88	0.67	49.78	239.48
2950.00	0.81	110.48	2949.43	-20.54	-25.39	-42.55	0.13	49.55	239.17
2975.00	0.82	108.08	2974.43	-20.69	-25.51	-42.21	0.15	49.32	238.85
3000.00	0.78	115.90	2999.43	-20.86	-25.64	-41.89	0.47	49.11	238.53
3025.00	0.85	123.47	3024.42	-21.07	-25.82	-41.58	0.51	48.95	238.17
3050.00	0.87	122.69	3049.42	-21.30	-26.02	-41.27	0.11	48.79	237.77
3075.00	1.03	130.80	3074.42	-21.59	-26.27	-40.94	0.85	48.64	237.31
3100.00	1.38	142.78	3099.41	-22.01	-26.66	-40.59	1.70	48.56	236.70
3125.00	1.48	145.26	3124.40	-22.56	-27.16	-40.22	0.48	48.53	235.97
3150.00	1.57	146.33	3149.40	-23.14	-27.71	-39.85	0.36	48.54	235.18
3175.00	1.64	150.43	3174.39	-23.78	-28.31	-39.48	0.55	48.58	234.36
3200.00	1.78	153.24	3199.37	-24.47	-28.97	-39.13	0.65	48.68	233.48
3225.00	1.80	160.60	3224.36	-25.22	-29.69	-38.82	0.92	48.87	232.59
3250.00	1.85	161.22	3249.35	-26.00	-30.44	-38.56	0.22	49.13	231.71

MD	INC	AZIM	TVD	VS	+N/-S	+E/-W	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	ft	°/100ft	ft	deg
3275.00	1.80	164.72	3274.34	-26.78	-31.20	-38.33	0.50	49.42	230.85
3300.00	1.81	168.49	3299.32	-27.56	-31.97	-38.15	0.48	49.77	230.04
3325.00	1.80	172.35	3324.31	-28.34	-32.74	-38.01	0.49	50.17	229.26
3350.00	1.72	177.21	3349.30	-29.11	-33.51	-37.94	0.69	50.62	228.55
3375.00	1.56	200.76	3374.29	-29.79	-34.20	-38.05	2.75	51.16	228.05
3400.00	1.48	205.26	3399.28	-30.37	-34.81	-38.30	0.57	51.76	227.74
3425.00	1.39	210.01	3424.27	-30.88	-35.36	-38.59	0.59	52.34	227.50
3450.00	1.42	219.46	3449.27	-31.35	-35.86	-38.94	0.94	52.94	227.36
3475.00	1.32	233.80	3474.26	-31.70	-36.27	-39.37	1.43	53.53	227.34
3500.00	1.14	251.75	3499.25	-31.90	-36.52	-39.84	1.70	54.05	227.49
3525.00	1.13	260.79	3524.25	-31.96	-36.64	-40.32	0.71	54.48	227.74
3550.00	0.94	267.79	3549.24	-31.96	-36.69	-40.77	0.91	54.84	228.01
3575.00	0.89	281.70	3574.24	-31.89	-36.65	-41.16	0.91	55.12	228.31
3600.00	0.64	308.29	3599.24	-31.73	-36.53	-41.46	1.70	55.26	228.62
3625.00	0.64	321.52	3624.24	-31.51	-36.33	-41.66	0.59	55.28	228.90
3650.00	0.63	332.14	3649.24	-31.27	-36.10	-41.81	0.47	55.24	229.19
3675.00	0.73	340.31	3674.23	-30.98	-35.83	-41.92	0.55	55.15	229.48
3700.00	0.71	343.53	3699.23	-30.68	-35.53	-42.02	0.19	55.03	229.78
3725.00	0.78	346.56	3724.23	-30.36	-35.22	-42.11	0.34	54.89	230.09
3750.00	0.74	348.97	3749.23	-30.03	-34.90	-42.18	0.23	54.74	230.40
3775.00	0.65	339.92	3774.23	-29.73	-34.61	-42.26	0.55	54.62	230.68
3800.00	0.69	318.73	3799.22	-29.47	-34.36	-42.40	1.00	54.58	230.98
3825.00	0.79	308.28	3824.22	-29.22	-34.14	-42.64	0.68	54.62	231.32
3850.00	0.95	288.21	3849.22	-29.01	-33.97	-42.97	1.36	54.77	231.68
3875.00	1.07	279.46	3874.22	-28.86	-33.86	-43.40	0.78	55.05	232.04
3900.00	1.22	272.69	3899.21	-28.76	-33.81	-43.89	0.82	55.41	232.39
3925.00	1.42	270.00	3924.20	-28.68	-33.80	-44.47	0.81	55.86	232.76
3950.00	1.56	265.21	3949.20	-28.64	-33.83	-45.12	0.75	56.39	233.14
3975.00	1.64	260.69	3974.19	-28.65	-33.91	-45.81	0.60	57.00	233.49
4000.00	1.82	260.19	3999.17	-28.69	-34.04	-46.55	0.75	57.67	233.83
4025.00	1.73	259.36	4024.16	-28.74	-34.18	-47.32	0.40	58.37	234.16
4050.00	1.75	260.54	4049.15	-28.79	-34.31	-48.06	0.17	59.05	234.48

MD	INC	AZIM	TVD	VS	+N/-S	+E/-W	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	ft	%/100ft	ft	deg
4075.00	1.80	260.48	4074.14	-28.83	-34.44	-48.83	0.18	59.75	234.80
4100.00	1.77	261.45	4099.13	-28.87	-34.56	-49.59	0.15	60.45	235.13
4125.00	1.75	259.49	4124.12	-28.91	-34.69	-50.35	0.26	61.14	235.44
4150.00	1.75	258.31	4149.10	-28.98	-34.83	-51.10	0.14	61.84	235.72
4175.00	1.77	262.12	4174.09	-29.02	-34.96	-51.86	0.48	62.54	236.01
4200.00	1.81	261.30	4199.08	-29.05	-35.08	-52.63	0.19	63.25	236.32
4225.00	1.73	263.18	4224.07	-29.07	-35.18	-53.39	0.39	63.94	236.62
4250.00	1.73	260.77	4249.06	-29.09	-35.29	-54.14	0.29	64.63	236.91
4275.00	1.93	260.63	4274.04	-29.13	-35.41	-54.93	0.78	65.36	237.19
4300.00	2.06	264.26	4299.03	-29.15	-35.53	-55.79	0.72	66.14	237.51
4325.00	2.13	270.26	4324.01	-29.09	-35.57	-56.70	0.93	66.94	237.90
4350.00	2.08	272.06	4348.99	-28.97	-35.55	-57.62	0.35	67.71	238.33
4375.00	2.24	273.38	4373.98	-28.82	-35.51	-58.56	0.69	68.49	238.77
4400.00	2.21	280.96	4398.96	-28.60	-35.39	-59.53	1.18	69.25	239.27
4425.00	2.22	282.66	4423.94	-28.30	-35.19	-60.47	0.26	69.96	239.80
4450.00	2.28	286.37	4448.92	-27.95	-34.94	-61.42	0.63	70.67	240.36
4475.00	2.02	290.44	4473.90	-27.56	-34.65	-62.31	1.23	71.30	240.92
4500.00	1.98	291.04	4498.89	-27.16	-34.34	-63.13	0.17	71.86	241.45
4525.00	1.93	294.34	4523.87	-26.75	-34.01	-63.91	0.50	72.40	241.98
4550.00	1.76	293.23	4548.86	-26.34	-33.69	-64.65	0.66	72.90	242.48
4575.00	1.82	293.89	4573.85	-25.95	-33.37	-65.36	0.23	73.39	242.95
4600.00	1.65	292.64	4598.84	-25.58	-33.08	-66.06	0.68	73.88	243.40
4625.00	1.60	291.40	4623.83	-25.24	-32.81	-66.72	0.24	74.35	243.81
4650.00	1.65	295.37	4648.82	-24.89	-32.53	-67.37	0.49	74.81	244.23
4675.00	1.57	294.28	4673.81	-24.52	-32.23	-68.01	0.33	75.26	244.64
4700.00	1.68	291.90	4698.80	-24.18	-31.95	-68.66	0.49	75.73	245.04
4725.00	1.69	294.55	4723.79	-23.81	-31.66	-69.34	0.32	76.22	245.45
4750.00	1.59	292.37	4748.77	-23.46	-31.38	-69.99	0.49	76.70	245.85
4775.00	1.73	290.31	4773.76	-23.12	-31.12	-70.67	0.59	77.21	246.23
4800.00	1.59	294.79	4798.75	-22.77	-30.84	-71.33	0.76	77.71	246.62
4825.00	1.66	290.31	4823.74	-22.43	-30.57	-71.99	0.58	78.21	246.99
4850.00	1.63	291.82	4848.73	-22.10	-30.31	-72.66	0.20	78.72	247.35

MD	INC	AZIM	TVD	VS	+N/-S	+E/-W	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	ft	°/100ft	ft	deg
4875.00	1.58	296.74	4873.72	-21.75	-30.02	-73.29	0.59	79.20	247.72
4900.00	1.57	295.65	4898.71	-21.38	-29.72	-73.91	0.12	79.66	248.09
4925.00	1.61	295.70	4923.70	-21.01	-29.42	-74.54	0.14	80.13	248.46
4950.00	1.67	297.40	4948.69	-20.62	-29.10	-75.18	0.31	80.61	248.84
4975.00	1.65	296.69	4973.68	-20.22	-28.77	-75.82	0.11	81.10	249.22
5000.00	1.57	299.71	4998.67	-19.82	-28.44	-76.44	0.48	81.56	249.59
5025.00	1.68	298.97	5023.66	-19.41	-28.09	-77.06	0.47	82.02	249.97
5050.00	1.68	297.79	5048.65	-18.99	-27.74	-77.71	0.14	82.51	250.35
5075.00	1.47	301.99	5073.64	-18.59	-27.40	-78.30	0.96	82.96	250.71
5100.00	1.73	295.93	5098.63	-18.19	-27.07	-78.91	1.23	83.43	251.07
5125.00	1.72	297.59	5123.62	-17.78	-26.73	-79.59	0.20	83.95	251.44
5150.00	1.89	296.10	5148.61	-17.35	-26.37	-80.29	0.69	84.51	251.82
5175.00	2.07	292.51	5173.60	-16.91	-26.02	-81.07	0.89	85.15	252.21
5200.00	2.36	293.76	5198.58	-16.43	-25.64	-81.96	1.17	85.88	252.63
5225.00	2.54	290.39	5223.55	-15.92	-25.24	-82.95	0.91	86.71	253.08
5250.00	2.85	287.99	5248.53	-15.42	-24.85	-84.06	1.33	87.66	253.53
5275.00	3.33	286.72	5273.49	-14.88	-24.45	-85.35	1.95	88.78	254.01
5300.00	3.56	285.07	5298.44	-14.31	-24.04	-86.79	0.99	90.06	254.52
5325.00	3.62	286.96	5323.40	-13.72	-23.61	-88.30	0.53	91.40	255.03
5350.00	3.63	287.68	5348.35	-13.08	-23.14	-89.81	0.19	92.74	255.55
5375.00	3.83	285.81	5373.29	-12.44	-22.67	-91.37	0.91	94.14	256.06
5400.00	3.77	287.37	5398.24	-11.80	-22.20	-92.95	0.48	95.57	256.57
5425.00	3.81	288.39	5423.18	-11.12	-21.69	-94.53	0.33	96.98	257.08
5450.00	3.78	286.40	5448.13	-10.45	-21.20	-96.11	0.54	98.42	257.56
5475.00	3.76	287.95	5473.07	-9.80	-20.71	-97.68	0.42	99.85	258.03
5500.00	3.76	289.44	5498.02	-9.10	-20.18	-99.23	0.39	101.26	258.50
5525.00	3.84	287.85	5522.97	-8.40	-19.66	-100.80	0.52	102.70	258.97
5550.00	3.65	290.45	5547.91	-7.70	-19.12	-102.34	1.01	104.11	259.42
5575.00	3.59	288.93	5572.86	-7.01	-18.59	-103.83	0.46	105.48	259.85
5600.00	3.47	291.86	5597.81	-6.32	-18.05	-105.27	0.85	106.81	260.27
5625.00	3.50	293.90	5622.77	-5.58	-17.46	-106.67	0.51	108.09	260.70
5650.00	3.38	291.64	5647.72	-4.85	-16.88	-108.05	0.72	109.36	261.12

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	3.18	297.02	5672.68	-4.12	-16.30	-109.36	1.48	110.56	261.52
5700.00	3.02	294.37	5697.65	-3.40	-15.71	-110.57	0.83	111.68	261.91
5725.00	2.94	296.06	5722.61	-2.72	-15.15	-111.75	0.48	112.77	262.28
5750.00	2.88	298.70	5747.58	-2.02	-14.57	-112.88	0.60	113.81	262.64
5775.00	2.74	296.95	5772.55	-1.33	-14.00	-113.96	0.63	114.82	263.00
5800.00	2.65	300.67	5797.52	-0.65	-13.43	-114.99	0.79	115.77	263.34
5825.00	2.48	297.78	5822.50	0.00	-12.89	-115.97	0.88	116.68	263.66
5850.00	2.63	294.89	5847.47	0.60	-12.39	-116.96	0.79	117.62	263.95
5875.00	2.64	295.47	5872.45	1.20	-11.90	-118.00	0.12	118.60	264.24
5900.00	2.59	287.76	5897.42	1.73	-11.48	-119.06	1.42	119.62	264.49
5925.00	2.92	275.27	5922.39	2.09	-11.25	-120.23	2.72	120.76	264.65
5950.00	3.27	261.55	5947.35	2.20	-11.30	-121.57	3.27	122.10	264.69
5975.00	3.52	254.22	5972.31	2.04	-11.61	-123.02	2.00	123.56	264.61
6000.00	3.64	247.80	5997.26	1.70	-12.12	-124.49	1.68	125.08	264.44
6025.00	4.12	234.33	6022.21	1.04	-12.94	-125.95	4.11	126.62	264.13
6050.00	4.29	231.04	6047.14	0.10	-14.06	-127.41	1.16	128.18	263.70
6075.00	4.33	229.20	6072.07	-0.94	-15.26	-128.85	0.58	129.75	263.25
6100.00	4.62	226.36	6096.99	-2.08	-16.57	-130.30	1.44	131.35	262.75
6125.00	4.49	227.03	6121.91	-3.28	-17.93	-131.74	0.56	132.95	262.25
6150.00	4.41	227.16	6146.84	-4.43	-19.25	-133.16	0.32	134.54	261.77
6175.00	4.41	226.88	6171.76	-5.58	-20.56	-134.57	0.09	136.13	261.31
6200.00	4.45	226.42	6196.69	-6.74	-21.89	-135.97	0.20	137.72	260.85
6225.00	4.51	226.11	6221.61	-7.93	-23.24	-137.38	0.29	139.33	260.40
6250.00	4.35	227.15	6246.54	-9.09	-24.57	-138.78	0.73	140.94	259.96
6275.00	4.46	227.18	6271.46	-10.23	-25.87	-140.19	0.45	142.56	259.54
6300.00	4.39	227.00	6296.39	-11.38	-27.19	-141.61	0.30	144.19	259.13
6325.00	4.33	227.33	6321.32	-12.51	-28.48	-143.00	0.25	145.81	258.74
6350.00	4.46	227.67	6346.24	-13.64	-29.77	-144.41	0.51	147.45	258.35
6375.00	4.43	228.58	6371.17	-14.77	-31.06	-145.85	0.30	149.13	257.98
6400.00	4.40	227.77	6396.09	-15.88	-32.35	-147.29	0.26	150.80	257.61
6425.00	4.36	229.15	6421.02	-16.99	-33.61	-148.72	0.46	152.47	257.26
6450.00	4.39	228.77	6445.95	-18.07	-34.87	-150.16	0.18	154.15	256.93

MD	INC	AZIM	TVD	VS	+N/-S	+E/-W	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	ft	°/100ft	ft	deg
6475.00	4.44	228.59	6470.87	-19.17	-36.14	-151.60	0.21	155.85	256.59
6500.00	4.45	228.70	6495.80	-20.29	-37.42	-153.06	0.04	157.56	256.26
6525.00	4.51	229.24	6520.72	-21.40	-38.70	-154.53	0.31	159.30	255.94
6550.00	4.53	226.99	6545.64	-22.54	-40.01	-155.99	0.72	161.04	255.61
6575.00	4.64	224.35	6570.56	-23.77	-41.41	-157.42	0.94	162.78	255.26
6600.00	5.03	217.94	6595.48	-25.20	-43.00	-158.80	2.66	164.52	254.85
6625.00	4.96	218.89	6620.38	-26.74	-44.70	-160.16	0.42	166.28	254.40
6650.00	4.94	216.99	6645.29	-28.29	-46.40	-161.48	0.66	168.02	253.97
6675.00	4.97	218.60	6670.19	-29.84	-48.11	-162.80	0.57	169.76	253.54
6700.00	5.12	216.45	6695.10	-31.42	-49.85	-164.14	0.98	171.55	253.11
6725.00	4.93	216.49	6720.00	-33.03	-51.61	-165.45	0.77	173.31	252.67
6750.00	4.87	216.01	6744.91	-34.60	-53.34	-166.71	0.31	175.03	252.26
6775.00	4.89	216.52	6769.82	-36.16	-55.05	-167.96	0.19	176.76	251.85
6800.00	4.85	216.63	6794.73	-37.72	-56.75	-169.23	0.13	178.49	251.46
6825.00	4.86	216.32	6819.64	-39.27	-58.46	-170.49	0.11	180.23	251.07
6850.00	4.98	217.21	6844.55	-40.84	-60.17	-171.77	0.55	182.01	250.69
6875.00	4.92	217.35	6869.45	-42.40	-61.89	-173.08	0.25	183.81	250.32
6900.00	4.92	216.03	6894.36	-43.97	-63.61	-174.36	0.45	185.60	249.96
6925.00	4.82	216.67	6919.27	-45.53	-65.32	-175.62	0.43	187.37	249.60
6950.00	5.02	218.43	6944.18	-47.07	-67.02	-176.93	0.99	189.19	249.25
6975.00	5.38	224.02	6969.08	-48.60	-68.72	-178.42	2.48	191.20	248.94
7000.00	5.50	225.65	6993.96	-50.08	-70.40	-180.09	0.78	193.36	248.65
7025.00	5.56	227.67	7018.85	-51.53	-72.05	-181.84	0.81	195.60	248.39
7050.00	5.58	235.13	7043.73	-52.82	-73.56	-183.73	2.89	197.91	248.18
7075.00	5.82	245.53	7068.61	-53.80	-74.78	-185.88	4.23	200.36	248.09
7100.00	5.80	247.94	7093.48	-54.53	-75.78	-188.21	0.98	202.89	248.07
7125.00	5.66	249.21	7118.35	-55.18	-76.69	-190.53	0.76	205.39	248.07
7150.00	5.69	249.68	7143.23	-55.79	-77.56	-192.84	0.22	207.86	248.09
7175.00	5.64	248.48	7168.11	-56.41	-78.44	-195.15	0.52	210.32	248.10
7200.00	5.64	249.83	7192.99	-57.02	-79.31	-197.44	0.53	212.78	248.11
7225.00	5.70	249.60	7217.87	-57.62	-80.17	-199.76	0.25	215.25	248.13
7250.00	5.67	249.20	7242.74	-58.23	-81.04	-202.08	0.20	217.72	248.15

MD	INC	AZIM	TVD	VS	+N/-S	+E/-W	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	ft	°/100ft	ft	deg
7275.00	5.56	249.70	7267.62	-58.83	-81.90	-204.37	0.46	220.17	248.16
7300.00	5.64	249.73	7292.50	-59.42	-82.74	-206.66	0.31	222.61	248.18
7325.00	5.74	248.29	7317.38	-60.05	-83.63	-208.97	0.70	225.08	248.19
7350.00	5.68	250.84	7342.26	-60.65	-84.50	-211.30	1.05	227.57	248.20
7375.00	5.57	249.86	7367.14	-61.21	-85.32	-213.61	0.56	230.02	248.23
7400.00	5.55	250.48	7392.02	-61.78	-86.15	-215.89	0.26	232.44	248.25
7425.00	5.55	250.56	7416.90	-62.33	-86.95	-218.16	0.03	234.85	248.27
7450.00	5.45	252.18	7441.79	-62.84	-87.72	-220.43	0.75	237.25	248.30
7475.00	5.25	251.67	7466.68	-63.31	-88.44	-222.65	0.80	239.57	248.34
7500.00	5.29	252.34	7491.57	-63.78	-89.15	-224.83	0.29	241.86	248.37
7525.00	5.13	253.63	7516.47	-64.20	-89.82	-227.00	0.78	244.13	248.41
7550.00	4.98	252.92	7541.37	-64.60	-90.45	-229.12	0.65	246.32	248.46
7575.00	4.83	253.71	7566.28	-64.98	-91.06	-231.16	0.68	248.45	248.50
7600.00	4.72	254.17	7591.19	-65.33	-91.64	-233.16	0.46	250.52	248.54
7625.00	4.74	255.37	7616.11	-65.65	-92.18	-235.15	0.40	252.57	248.59
7650.00	4.88	254.03	7641.02	-65.98	-92.73	-237.17	0.71	254.66	248.64
7675.00	4.97	253.16	7665.93	-66.35	-93.34	-239.23	0.47	256.79	248.69
7700.00	5.19	252.93	7690.83	-66.76	-93.98	-241.35	0.89	259.00	248.72
7725.00	5.93	246.61	7715.71	-67.35	-94.83	-243.61	3.83	261.42	248.73
7750.00	6.34	245.66	7740.57	-68.15	-95.91	-246.05	1.71	264.09	248.70
7775.00	6.27	246.25	7765.42	-68.99	-97.03	-248.56	0.39	266.83	248.68
7800.00	6.35	245.63	7790.27	-69.82	-98.15	-251.07	0.42	269.57	248.65
7825.00	6.43	246.29	7815.11	-70.67	-99.28	-253.61	0.43	272.35	248.62
7850.00	6.46	246.31	7839.95	-71.51	-100.41	-256.18	0.12	275.15	248.60
7875.00	6.47	244.23	7864.79	-72.39	-101.59	-258.73	0.94	277.96	248.56
7900.00	6.52	245.28	7889.63	-73.31	-102.79	-261.29	0.52	280.79	248.53
7925.00	6.50	245.64	7914.47	-74.20	-103.97	-263.87	0.18	283.62	248.49
7950.00	6.46	246.02	7939.31	-75.06	-105.13	-266.45	0.26	286.44	248.47
7975.00	6.50	245.31	7964.15	-75.93	-106.29	-269.02	0.37	289.25	248.44
8000.00	6.57	246.21	7988.99	-76.81	-107.46	-271.61	0.50	292.10	248.41
8025.00	6.48	245.78	8013.83	-77.67	-108.61	-274.21	0.42	294.94	248.39
8050.00	6.45	246.70	8038.67	-78.51	-109.75	-276.78	0.44	297.75	248.37

MD	INC	AZIM	TVD	VS	+N/-S	+E/-W	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	ft	°/100ft	ft	deg
8075.00	6.43	246.99	8063.51	-79.32	-110.85	-279.36	0.15	300.55	248.36
8100.00	6.38	246.66	8088.36	-80.13	-111.95	-281.93	0.23	303.34	248.34
8125.00	6.37	247.09	8113.20	-80.93	-113.04	-284.48	0.21	306.11	248.33
8150.00	6.41	247.29	8138.05	-81.72	-114.12	-287.04	0.19	308.89	248.32
8175.00	6.48	246.29	8162.89	-82.53	-115.22	-289.62	0.53	311.70	248.31
8200.00	6.45	244.44	8187.73	-83.42	-116.39	-292.18	0.84	314.51	248.28
8225.00	6.54	244.16	8212.57	-84.36	-117.62	-294.73	0.39	317.33	248.24
8250.00	6.64	242.07	8237.40	-85.36	-118.92	-297.28	1.04	320.19	248.20
8275.00	6.84	236.89	8262.23	-86.56	-120.41	-299.81	2.55	323.08	248.12
8300.00	7.11	229.67	8287.05	-88.10	-122.22	-302.23	3.66	326.01	247.98
8325.00	7.11	229.72	8311.86	-89.83	-124.22	-304.59	0.02	328.95	247.81
8350.00	7.16	229.67	8336.66	-91.56	-126.23	-306.96	0.21	331.90	247.65
8375.00	7.22	229.40	8361.47	-93.32	-128.26	-309.34	0.29	334.88	247.48
8400.00	7.30	229.05	8386.26	-95.10	-130.33	-311.73	0.34	337.88	247.31
8425.00	7.24	229.53	8411.06	-96.89	-132.39	-314.13	0.34	340.89	247.15
8450.00	7.23	229.19	8435.87	-98.66	-134.44	-316.52	0.17	343.88	246.99
8475.00	7.26	228.63	8460.67	-100.46	-136.51	-318.89	0.30	346.88	246.83
8500.00	7.27	228.67	8485.46	-102.27	-138.60	-321.27	0.06	349.89	246.66
8525.00	7.18	228.99	8510.27	-104.07	-140.67	-323.63	0.41	352.88	246.51
8550.00	6.98	228.06	8535.08	-105.84	-142.71	-325.94	0.91	355.82	246.35
8575.00	6.34	226.73	8559.91	-107.56	-144.67	-328.08	2.65	358.56	246.20
8600.00	6.03	225.03	8584.76	-109.21	-146.54	-330.01	1.44	361.08	246.06
8625.00	5.81	224.95	8609.63	-110.82	-148.37	-331.83	0.86	363.49	245.91
8650.00	5.88	223.80	8634.50	-112.43	-150.19	-333.61	0.54	365.86	245.76
8675.00	5.80	224.47	8659.37	-114.05	-152.01	-335.38	0.40	368.23	245.62
8700.00	5.67	224.09	8684.24	-115.63	-153.80	-337.13	0.54	370.56	245.48
8725.00	5.65	223.90	8709.12	-117.21	-155.58	-338.84	0.13	372.85	245.34
8750.00	5.49	225.17	8734.00	-118.74	-157.30	-340.54	0.81	375.12	245.21
8775.00	5.36	225.34	8758.89	-120.20	-158.97	-342.22	0.53	377.34	245.08
8800.00	5.26	225.64	8783.78	-121.63	-160.59	-343.87	0.40	379.52	244.97
8825.00	5.13	226.05	8808.68	-123.02	-162.16	-345.49	0.55	381.66	244.86
8850.00	5.06	226.45	8833.58	-124.37	-163.70	-347.10	0.29	383.76	244.75

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	5.02	226.63	8858.49	-125.70	-165.21	-348.69	0.20	385.85	244.65
8900.00	4.88	226.90	8883.39	-126.99	-166.69	-350.26	0.55	387.90	244.55
8925.00	4.74	229.48	8908.31	-128.21	-168.09	-351.82	1.03	389.91	244.46
8950.00	4.28	242.27	8933.23	-129.13	-169.19	-353.43	4.41	391.84	244.42
8975.00	4.27	253.87	8958.16	-129.63	-169.88	-355.15	3.45	393.69	244.44
9000.00	4.33	259.50	8983.09	-129.85	-170.32	-356.98	1.71	395.53	244.49
9025.00	4.46	260.54	9008.02	-129.97	-170.65	-358.87	0.61	397.37	244.57
9050.00	4.81	263.68	9032.93	-130.03	-170.92	-360.87	1.73	399.30	244.66
9075.00	4.95	264.55	9057.84	-130.01	-171.14	-362.98	0.62	401.31	244.76
9100.00	5.00	263.22	9082.75	-130.00	-171.37	-365.14	0.50	403.36	244.86
9125.00	5.21	262.59	9107.65	-130.03	-171.65	-367.35	0.86	405.47	244.96
9150.00	5.49	260.04	9132.54	-130.13	-172.00	-369.65	1.46	407.71	245.05
9175.00	5.42	259.80	9157.43	-130.28	-172.42	-371.99	0.29	410.00	245.13
9200.00	5.21	259.77	9182.32	-130.44	-172.83	-374.27	0.84	412.24	245.21
9225.00	4.92	260.59	9207.22	-130.57	-173.20	-376.44	1.20	414.37	245.29
9250.00	4.71	262.33	9232.13	-130.65	-173.51	-378.51	1.01	416.39	245.37
9275.00	4.68	262.14	9257.05	-130.71	-173.79	-380.54	0.14	418.35	245.45
9300.00	4.60	262.19	9281.97	-130.76	-174.07	-382.55	0.32	420.29	245.53
9325.00	5.20	250.01	9306.88	-131.05	-174.59	-384.60	4.79	422.38	245.58
9350.00	5.65	242.95	9331.77	-131.75	-175.54	-386.76	3.21	424.74	245.59
9375.00	5.74	241.36	9356.64	-132.66	-176.70	-388.96	0.72	427.21	245.57
9400.00	6.06	241.28	9381.51	-133.64	-177.93	-391.21	1.29	429.77	245.54
9425.00	6.50	242.05	9406.36	-134.66	-179.23	-393.62	1.80	432.50	245.52
9450.00	6.74	242.46	9431.19	-135.72	-180.57	-396.17	0.97	435.38	245.50
9475.00	6.66	242.52	9456.02	-136.77	-181.92	-398.76	0.33	438.29	245.48
9500.00	6.64	243.04	9480.85	-137.80	-183.24	-401.33	0.25	441.18	245.46
9525.00	6.45	243.74	9505.69	-138.79	-184.52	-403.88	0.83	444.03	245.45
9550.00	6.29	244.52	9530.54	-139.72	-185.73	-406.37	0.74	446.80	245.44
9575.00	6.12	243.91	9555.39	-140.61	-186.90	-408.80	0.71	449.50	245.43
9600.00	5.90	243.55	9580.25	-141.51	-188.06	-411.15	0.92	452.12	245.42
9625.00	5.67	242.61	9605.13	-142.39	-189.20	-413.40	0.98	454.64	245.41
9650.00	5.46	243.08	9630.01	-143.25	-190.31	-415.55	0.85	457.06	245.39

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	5.57	243.51	9654.89	-144.09	-191.39	-417.70	0.48	459.46	245.38
9700.00	5.83	244.90	9679.77	-144.92	-192.47	-419.94	1.17	461.94	245.38
9725.00	5.97	246.22	9704.64	-145.71	-193.53	-422.28	0.78	464.52	245.38
9750.00	5.78	246.47	9729.50	-146.48	-194.56	-424.63	0.77	467.08	245.38
9775.00	5.36	247.13	9754.39	-147.18	-195.51	-426.86	1.71	469.50	245.39
9800.00	5.05	247.58	9779.28	-147.82	-196.39	-428.95	1.25	471.77	245.40
9825.00	4.94	247.38	9804.19	-148.43	-197.22	-430.96	0.45	473.95	245.41
9850.00	4.89	247.22	9829.10	-149.03	-198.05	-432.94	0.22	476.09	245.42
9875.00	5.29	247.50	9854.00	-149.65	-198.90	-434.99	1.62	478.30	245.43
9900.00	6.18	248.01	9878.87	-150.34	-199.85	-437.30	3.56	480.80	245.44
9925.00	7.15	248.50	9903.70	-151.10	-200.92	-439.99	3.87	483.70	245.46
9950.00	7.38	248.34	9928.50	-151.94	-202.08	-442.93	0.93	486.85	245.48
9975.00	7.61	248.43	9953.29	-152.79	-203.29	-445.96	0.92	490.11	245.49
10000.00	7.65	249.08	9978.07	-153.65	-204.49	-449.06	0.38	493.43	245.52
10025.00	7.59	250.13	10002.85	-154.45	-205.64	-452.17	0.61	496.73	245.54
10050.00	7.53	250.67	10027.63	-155.21	-206.75	-455.26	0.36	500.01	245.58
10075.00	7.47	252.68	10052.42	-155.89	-207.77	-458.36	1.08	503.25	245.62
10100.00	7.42	253.23	10077.20	-156.49	-208.72	-461.46	0.34	506.47	245.66
10125.00	7.31	253.46	10102.00	-157.06	-209.64	-464.53	0.47	509.64	245.71
10150.00	6.95	254.99	10126.81	-157.57	-210.48	-467.52	1.62	512.71	245.76
10175.00	6.91	255.59	10151.62	-158.01	-211.25	-470.43	0.33	515.69	245.82
10200.00	6.50	256.56	10176.45	-158.40	-211.95	-473.26	1.70	518.56	245.87
10225.00	6.17	256.89	10201.30	-158.73	-212.59	-475.95	1.30	521.27	245.93
10250.00	6.09	256.53	10226.16	-159.05	-213.20	-478.55	0.38	523.89	245.99
10275.00	6.17	256.72	10251.01	-159.38	-213.82	-481.14	0.33	526.51	246.04
10300.00	6.17	256.52	10275.87	-159.71	-214.44	-483.76	0.09	529.16	246.09
10325.00	6.17	255.70	10300.72	-160.06	-215.09	-486.36	0.35	531.80	246.14
10350.00	6.08	253.29	10325.58	-160.49	-215.80	-488.93	1.08	534.44	246.19
10375.00	6.33	247.30	10350.43	-161.11	-216.71	-491.47	2.77	537.13	246.21
10400.00	6.47	244.59	10375.28	-161.96	-217.85	-494.02	1.34	539.92	246.20
10425.00	6.59	242.93	10400.12	-162.93	-219.10	-496.57	0.90	542.76	246.19
10450.00	6.77	234.84	10424.95	-164.15	-220.61	-499.05	3.83	545.63	246.15

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	7.27	228.71	10449.76	-165.76	-222.50	-501.44	3.61	548.59	246.07
10500.00	7.48	225.34	10474.55	-167.68	-224.69	-503.79	1.92	551.62	245.96
10525.00	7.33	224.64	10499.35	-169.69	-226.97	-506.07	0.70	554.63	245.84
10550.00	6.32	223.19	10524.17	-171.59	-229.10	-508.13	4.10	557.39	245.73
10575.00	5.67	221.93	10549.03	-173.30	-231.02	-509.89	2.65	559.79	245.63
10600.00	5.34	221.31	10573.92	-174.91	-232.82	-511.49	1.32	561.98	245.53
10625.00	4.60	220.74	10598.82	-176.38	-234.45	-512.91	2.98	563.95	245.43
10650.00	3.53	218.23	10623.76	-177.61	-235.81	-514.04	4.35	565.55	245.36
10675.00	3.08	220.13	10648.72	-178.62	-236.93	-514.95	1.82	566.84	245.29
10700.00	2.83	216.84	10673.68	-179.53	-237.94	-515.75	1.21	567.99	245.23
10725.00	2.49	213.05	10698.66	-180.40	-238.89	-516.42	1.54	569.00	245.18
10750.00	1.93	209.07	10723.64	-181.17	-239.71	-516.92	2.31	569.80	245.12
10761.00	1.64	206.10	10734.63	-181.45	-240.02	-517.08	2.77	570.07	245.10