

COG

SURVEY REPORT

WHITE FALCON 16 STATE COM #24H

NORAM #23

10/12/2017

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

Kelton Cotton

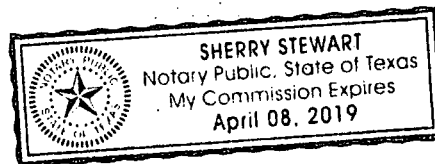
Notarized this date 9 of February, 2018.

Sherry Stewart

Notary Signature

County of Midland

State of Texas



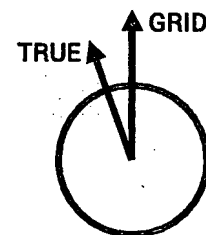
Scientific Drilling

The Ultimate Partner In Wellbore Placement

SURVEY REPORT

WHITE FALCON 16 STATE COM #24H

DEFINITIVE KEEPER GYRO SURVEY

CUSTOMER
PROJECT
FIELDCOG
White Falcon 16 State Com #24H
White Falcon State Com #24HSDI JOB NO.
SDI DISTRICT
SDI KIT/UNITOP.004864
Midland**SITE INFORMATION**Site Name White Falcon 16 State Com #24H
Lat/Long 32.137° N, 103.378° W
Northing 414,833.5 ft
Easting 795,654 ftSection
Township
Range**MAP INFORMATION**North Reference Grid North
Grid Correction -0.51 deg
System US State Plane 1927
Datum North American Datum 1927 (Clarke 1866)
Map Zone New Mexico East: 3001**WELL INFORMATION**Lat/Long 32.137° N, 103.378° W
Northing 414,833.5 ft
Easting 795,654 ft
UWI 30-025-43700**DEPTH AND ELEVATION REFERENCE**Ground Level 3255 ft above Mean Sea Level
Reference Datum KB
Reference Height 29 ft above G.L.
Reference Elevation 3284 ft**VERTICAL SECTION REFERENCE**+N/-S 0 ft
+E/-W 0 ft
Proposal Direction 238.37°
Calculation Method Minimum Curvature**LOCAL GRAVITY REFERENCE INFORMATION**Local Gravity 998.507 mG [computed]
True to Grid subtract 0.51°**WELL NOTES**

Keeper Gyro Survey ran in 4 1/2" Drill Pipe to 11,412'

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	0.40	60.81	100.00	-0.35	0.17	0.30	0.40	0.35	60.81
125.00	0.31	83.54	125.00	-0.50	0.22	0.45	0.67	0.50	63.77
150.00	0.35	77.14	150.00	-0.63	0.24	0.59	0.23	0.64	67.40
175.00	0.42	56.71	175.00	-0.79	0.31	0.74	0.61	0.80	67.11
200.00	0.46	48.90	200.00	-0.98	0.43	0.89	0.29	0.99	64.33
225.00	0.55	45.66	225.00	-1.20	0.58	1.05	0.37	1.20	61.22
250.00	0.59	47.08	249.99	-1.45	0.75	1.23	0.18	1.45	58.68
275.00	0.60	53.39	274.99	-1.70	0.92	1.44	0.27	1.70	57.40
300.00	0.55	47.74	299.99	-1.95	1.08	1.63	0.32	1.95	56.54
325.00	0.60	48.91	324.99	-2.20	1.24	1.82	0.22	2.20	55.62
350.00	0.60	48.54	349.99	-2.46	1.41	2.01	0.02	2.46	54.89
375.00	0.49	63.21	374.99	-2.69	1.55	2.21	0.72	2.70	54.90
400.00	0.74	44.02	399.99	-2.95	1.71	2.41	1.29	2.96	54.61
425.00	0.85	33.73	424.98	-3.28	1.98	2.63	0.71	3.29	52.95
450.00	0.84	38.50	449.98	-3.62	2.28	2.84	0.28	3.64	51.27
475.00	0.88	31.56	474.98	-3.96	2.59	3.06	0.45	4.01	49.76
500.00	1.12	26.89	499.98	-4.34	2.97	3.27	1.00	4.42	47.75
525.00	1.19	27.51	524.97	-4.77	3.42	3.50	0.28	4.89	45.68
550.00	1.12	26.46	549.97	-5.20	3.86	3.73	0.29	5.37	43.97
575.00	1.15	26.38	574.96	-5.62	4.31	3.95	0.12	5.84	42.51
600.00	1.22	27.64	599.95	-6.06	4.77	4.18	0.30	6.34	41.26
625.00	1.11	30.88	624.95	-6.50	5.21	4.43	0.52	6.84	40.37
650.00	1.13	27.72	649.95	-6.93	5.63	4.67	0.26	7.32	39.64
675.00	1.11	24.69	674.94	-7.34	6.07	4.88	0.25	7.79	38.81
700.00	1.10	20.03	699.94	-7.73	6.52	5.07	0.36	8.25	37.86
725.00	1.14	9.55	724.93	-8.08	6.99	5.19	0.83	8.70	36.60
750.00	0.99	356.68	749.93	-8.35	7.44	5.22	1.12	9.09	35.02
775.00	1.20	347.29	774.92	-8.53	7.91	5.15	1.12	9.44	33.04
800.00	1.40	337.71	799.92	-8.67	8.45	4.97	1.16	9.81	30.48
825.00	1.42	339.89	824.91	-8.78	9.03	4.75	0.24	10.20	27.77
850.00	1.51	334.90	849.90	-8.88	9.61	4.51	0.61	10.62	25.11

MD	INC	AZIM	TRVD	VS	N/S	E/W	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	ft	/100ft	ft	deg
875.00	1.58	329.54	874.89	-8.92	10.21	4.19	0.64	11.04	22.32
900.00	1.79	331.71	899.88	-8.95	10.85	3.83	0.89	11.51	19.46
925.00	1.94	330.50	924.87	-8.99	11.56	3.44	0.62	12.06	16.56
950.00	2.00	333.03	949.85	-9.04	12.32	3.03	0.41	12.69	13.83
975.00	2.00	332.12	974.84	-9.11	13.09	2.63	0.13	13.35	11.36
1000.00	2.05	334.79	999.82	-9.18	13.88	2.24	0.42	14.06	9.15
1025.00	1.99	332.34	1024.81	-9.26	14.67	1.84	0.42	14.79	7.17
1050.00	1.95	335.41	1049.79	-9.35	15.44	1.47	0.44	15.51	5.42
1075.00	1.91	332.47	1074.78	-9.43	16.20	1.10	0.43	16.24	3.87
1100.00	1.87	331.59	1099.76	-9.48	16.93	0.71	0.19	16.94	2.40
1125.00	1.82	325.17	1124.75	-9.48	17.61	0.29	0.85	17.62	0.94
1150.00	1.76	321.93	1149.74	-9.42	18.24	-0.17	0.47	18.24	359.45
1175.00	1.69	318.95	1174.73	-9.31	18.82	-0.65	0.45	18.83	358.01
1200.00	1.67	317.38	1199.72	-9.18	19.37	-1.14	0.20	19.40	356.63
1225.00	1.56	304.94	1224.71	-8.98	19.83	-1.67	1.47	19.90	355.19
1250.00	1.51	279.97	1249.70	-8.59	20.08	-2.27	2.67	20.21	353.54
1275.00	1.65	265.45	1274.69	-8.03	20.11	-2.96	1.69	20.33	351.63
1300.00	1.86	259.57	1299.68	-7.33	20.01	-3.72	1.10	20.35	349.48
1325.00	1.86	259.41	1324.66	-6.57	19.86	-4.51	0.03	20.37	347.19
1350.00	1.78	260.45	1349.65	-5.83	19.72	-5.30	0.35	20.42	344.96
1375.00	1.85	258.78	1374.64	-5.09	19.58	-6.08	0.34	20.50	342.76
1400.00	1.83	263.58	1399.62	-4.35	19.46	-6.87	0.62	20.63	340.55
1425.00	1.78	260.57	1424.61	-3.63	19.35	-7.65	0.42	20.80	338.43
1450.00	1.81	258.01	1449.60	-2.90	19.20	-8.42	0.34	20.97	336.33
1475.00	1.79	255.73	1474.59	-2.16	19.02	-9.18	0.30	21.12	334.24
1500.00	1.87	255.48	1499.58	-1.40	18.83	-9.95	0.32	21.29	332.14
1525.00	1.87	254.80	1524.56	-0.62	18.62	-10.74	0.09	21.49	330.02
1550.00	1.91	253.90	1549.55	0.17	18.40	-11.53	0.20	21.71	327.92
1575.00	1.87	253.23	1574.53	0.97	18.16	-12.32	0.16	21.95	325.85
1600.00	1.87	254.96	1599.52	1.75	17.94	-13.11	0.23	22.22	323.84
1625.00	1.86	254.34	1624.51	2.54	17.72	-13.89	0.10	22.52	321.91
1650.00	1.74	252.63	1649.50	3.29	17.50	-14.65	0.51	22.82	320.07

MD	INC	AZIM	IVD	VS	N/S	E/W	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	ft	/100ft	ft	deg
1675.00	1.87	252.98	1674.48	4.06	17.27	-15.40	0.50	23.14	318.28
1700.00	1.85	252.15	1699.47	4.84	17.02	-16.17	0.12	23.48	316.47
1725.00	1.84	252.61	1724.46	5.62	16.78	-16.94	0.07	23.84	314.73
1750.00	1.88	252.17	1749.44	6.41	16.54	-17.71	0.17	24.23	313.03
1775.00	1.87	253.48	1774.43	7.21	16.29	-18.50	0.17	24.65	311.38
1800.00	1.82	254.73	1799.42	7.98	16.07	-19.27	0.27	25.09	309.83
1825.00	1.80	249.89	1824.41	8.74	15.83	-20.02	0.62	25.52	308.34
1850.00	1.88	251.85	1849.39	9.53	15.57	-20.78	0.43	25.97	306.85
1875.00	1.89	252.91	1874.38	10.33	15.32	-21.56	0.14	26.45	305.40
1900.00	1.91	252.59	1899.37	11.13	15.08	-22.35	0.08	26.96	304.00
1925.00	1.83	252.13	1924.35	11.92	14.83	-23.13	0.33	27.47	302.67
1950.00	1.83	252.31	1949.34	12.69	14.59	-23.89	0.03	27.99	301.41
1975.00	1.54	253.17	1974.33	13.40	14.37	-24.59	1.14	28.48	300.30
2000.00	1.17	257.92	1999.32	13.97	14.22	-25.16	1.57	28.90	299.47
2025.00	0.98	260.15	2024.32	14.41	14.13	-25.62	0.77	29.26	298.87
2050.00	0.96	259.73	2049.31	14.80	14.05	-26.04	0.10	29.59	298.36
2075.00	0.97	264.13	2074.31	15.19	13.99	-26.45	0.30	29.93	297.88
2100.00	0.96	259.77	2099.31	15.57	13.94	-26.87	0.30	30.27	297.41
2125.00	1.01	259.04	2124.30	15.97	13.86	-27.29	0.23	30.61	296.92
2150.00	1.01	259.51	2149.30	16.38	13.77	-27.72	0.03	30.96	296.42
2175.00	1.01	263.97	2174.29	16.79	13.71	-28.16	0.31	31.32	295.96
2200.00	0.96	267.29	2199.29	17.17	13.68	-28.59	0.31	31.69	295.57
2225.00	0.91	263.85	2224.29	17.53	13.65	-28.99	0.30	32.05	295.20
2250.00	0.89	252.23	2249.28	17.90	13.57	-29.38	0.73	32.36	294.79
2275.00	0.90	239.08	2274.28	18.29	13.41	-29.73	0.82	32.61	294.27
2300.00	0.97	240.95	2299.28	18.69	13.20	-30.09	0.30	32.85	293.69
2325.00	1.04	243.70	2324.27	19.13	13.00	-30.47	0.33	33.13	293.10
2350.00	1.02	245.90	2349.27	19.58	12.81	-30.88	0.17	33.43	292.53
2375.00	0.91	248.18	2374.27	19.99	12.64	-31.27	0.47	33.73	292.02
2400.00	0.88	248.28	2399.26	20.38	12.50	-31.63	0.12	34.01	291.56
2425.00	0.91	244.07	2424.26	20.76	12.34	-31.98	0.30	34.28	291.10
2450.00	0.96	245.76	2449.26	21.17	12.17	-32.35	0.22	34.57	290.61

MD	INC	AZIM	TV	VS	N/S	E/W	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	ft	/100ft	ft	deg
2475.00	0.95	242.21	2474.25	21.58	11.99	-32.73	0.24	34.85	290.11
2500.00	1.00	243.63	2499.25	22.01	11.79	-33.11	0.22	35.14	289.61
2525.00	0.99	242.80	2524.25	22.44	11.60	-33.49	0.07	35.44	289.10
2550.00	0.98	239.95	2549.24	22.86	11.39	-33.87	0.20	35.73	288.59
2575.00	0.91	245.78	2574.24	23.28	11.20	-34.23	0.46	36.02	288.12
2600.00	0.99	250.07	2599.24	23.68	11.05	-34.62	0.42	36.34	287.70
2625.00	0.93	247.21	2624.23	24.10	10.90	-35.01	0.31	36.67	287.29
2650.00	0.83	250.46	2649.23	24.47	10.76	-35.37	0.43	36.97	286.92
2675.00	0.83	241.32	2674.23	24.83	10.61	-35.70	0.53	37.24	286.55
2700.00	0.81	242.30	2699.22	25.19	10.44	-36.01	0.11	37.49	286.17
2725.00	0.84	238.64	2724.22	25.55	10.26	-36.32	0.25	37.75	285.78
2750.00	0.76	243.22	2749.22	25.90	10.09	-36.63	0.41	37.99	285.41
2775.00	0.73	248.31	2774.22	26.22	9.96	-36.93	0.29	38.25	285.09
2800.00	0.70	245.90	2799.22	26.53	9.84	-37.22	0.17	38.49	284.81
2825.00	0.66	247.36	2824.21	26.82	9.72	-37.49	0.20	38.73	284.53
2850.00	0.47	235.64	2849.21	27.07	9.61	-37.71	0.86	38.91	284.29
2875.00	0.44	238.66	2874.21	27.27	9.50	-37.87	0.16	39.05	284.08
2900.00	0.50	238.58	2899.21	27.47	9.39	-38.05	0.26	39.19	283.86
2925.00	0.48	240.82	2924.21	27.69	9.28	-38.23	0.12	39.34	283.65
2950.00	0.44	235.31	2949.21	27.89	9.18	-38.40	0.24	39.49	283.44
2975.00	0.31	252.84	2974.21	28.05	9.10	-38.55	0.69	39.61	283.28
3000.00	0.48	231.43	2999.21	28.22	9.02	-38.70	0.90	39.73	283.12
3025.00	0.31	284.22	3024.21	28.37	8.97	-38.84	1.54	39.87	283.00
3050.00	0.49	245.24	3049.21	28.53	8.94	-39.01	1.26	40.02	282.91
3075.00	0.41	229.49	3074.21	28.72	8.84	-39.17	0.58	40.16	282.71
3100.00	0.62	233.00	3099.21	28.94	8.70	-39.35	0.82	40.30	282.46
3125.00	0.85	235.27	3124.20	29.26	8.51	-39.61	0.93	40.51	282.13
3150.00	1.23	233.71	3149.20	29.71	8.25	-39.98	1.52	40.82	281.66
3175.00	1.14	233.61	3174.19	30.23	7.94	-40.39	0.35	41.16	281.12
3200.00	1.07	238.00	3199.19	30.71	7.67	-40.79	0.45	41.50	280.65
3225.00	1.10	229.31	3224.18	31.18	7.39	-41.17	0.67	41.83	280.18
3250.00	1.16	235.50	3249.18	31.67	7.09	-41.56	0.55	42.16	279.68

MD	INC	AZIM	TVL	VS	IN/S	FE/W	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	ft	/100ft	ft	deg
3275.00	1.20	232.69	3274.17	32.18	6.79	-41.98	0.27	42.52	279.19
3300.00	1.14	235.17	3299.17	32.69	6.49	-42.39	0.31	42.88	278.70
3325.00	0.99	236.16	3324.16	33.15	6.23	-42.77	0.61	43.22	278.28
3350.00	1.13	228.32	3349.16	33.61	5.94	-43.13	0.81	43.54	277.84
3375.00	1.15	232.23	3374.16	34.10	5.62	-43.52	0.32	43.88	277.37
3400.00	1.22	236.64	3399.15	34.62	5.33	-43.93	0.46	44.26	276.91
3425.00	1.11	237.04	3424.15	35.12	5.05	-44.36	0.42	44.65	276.49
3450.00	1.16	236.98	3449.14	35.62	4.78	-44.77	0.20	45.03	276.09
3475.00	1.27	243.29	3474.13	36.15	4.52	-45.23	0.70	45.46	275.70
3500.00	1.15	243.33	3499.13	36.67	4.28	-45.71	0.49	45.91	275.35
3525.00	1.13	245.56	3524.12	37.17	4.06	-46.15	0.19	46.33	275.03
3550.00	1.17	244.44	3549.12	37.67	3.85	-46.61	0.18	46.77	274.72
3575.00	1.20	249.30	3574.11	38.18	3.65	-47.09	0.42	47.23	274.43
3600.00	1.24	244.76	3599.11	38.71	3.44	-47.58	0.41	47.70	274.14
3625.00	1.17	248.78	3624.10	39.23	3.23	-48.06	0.45	48.17	273.85
3650.00	1.17	247.74	3649.10	39.73	3.04	-48.53	0.08	48.63	273.59
3675.00	1.10	255.27	3674.09	40.21	2.89	-49.00	0.65	49.08	273.37
3700.00	1.16	257.38	3699.09	40.68	2.77	-49.48	0.28	49.56	273.21
3725.00	1.12	259.67	3724.08	41.14	2.67	-49.96	0.24	50.04	273.06
3750.00	1.12	258.01	3749.08	41.60	2.58	-50.44	0.13	50.51	272.93
3775.00	1.14	254.78	3774.07	42.07	2.46	-50.92	0.27	50.98	272.77
3800.00	1.18	258.26	3799.07	42.55	2.34	-51.41	0.32	51.47	272.61
3825.00	1.08	262.38	3824.06	43.01	2.26	-51.90	0.51	51.95	272.49
3850.00	1.25	258.96	3849.06	43.48	2.18	-52.40	0.72	52.45	272.38
3875.00	1.25	264.41	3874.05	43.98	2.10	-52.94	0.48	52.98	272.27
3900.00	1.30	258.68	3899.05	44.49	2.02	-53.49	0.55	53.53	272.16
3925.00	1.37	263.25	3924.04	45.03	1.92	-54.07	0.51	54.10	272.04
3950.00	1.26	260.31	3949.03	45.56	1.84	-54.64	0.54	54.67	271.93
3975.00	1.30	257.17	3974.03	46.08	1.73	-55.18	0.34	55.21	271.80
4000.00	1.36	260.87	3999.02	46.62	1.62	-55.75	0.41	55.78	271.67
4025.00	1.32	259.60	4024.01	47.17	1.52	-56.33	0.19	56.35	271.55
4050.00	1.33	253.04	4049.01	47.72	1.39	-56.89	0.61	56.91	271.40

MD	INC	AZIM	IVD	VS	N/S	HE/W	DLS	CLOSURE	CLOSURE
ft	deg	deg	ft	ft	ft	ft	/100ft	DIST	DIR
4075.00	1.37	248.35	4074.00	48.29	1.19	-57.45	0.46	57.46	271.19
4100.00	1.20	245.96	4098.99	48.84	0.98	-57.96	0.71	57.97	270.96
4125.00	1.29	246.26	4123.99	49.38	0.76	-58.46	0.37	58.47	270.74
4150.00	1.35	246.81	4148.98	49.95	0.53	-58.99	0.22	58.99	270.51
4175.00	1.31	246.18	4173.97	50.53	0.30	-59.52	0.15	59.52	270.28
4200.00	1.22	243.60	4198.97	51.07	0.06	-60.02	0.42	60.02	270.06
4225.00	1.17	238.51	4223.96	51.60	-0.19	-60.48	0.47	60.48	269.82
4250.00	0.86	243.90	4248.96	52.04	-0.41	-60.87	1.30	60.87	269.62
4275.00	0.79	242.72	4273.96	52.40	-0.57	-61.19	0.28	61.19	269.47
4300.00	0.59	233.99	4298.95	52.70	-0.72	-61.45	0.91	61.45	269.32
4325.00	0.58	215.73	4323.95	52.96	-0.90	-61.63	0.75	61.63	269.16
4350.00	0.55	197.21	4348.95	53.16	-1.12	-61.74	0.74	61.75	268.96
4375.00	0.53	187.32	4373.95	53.32	-1.35	-61.79	0.38	61.80	268.75
4400.00	0.69	188.28	4398.95	53.49	-1.62	-61.82	0.64	61.84	268.50
4425.00	0.57	189.90	4423.95	53.67	-1.89	-61.87	0.49	61.89	268.25
4450.00	0.51	191.51	4448.95	53.83	-2.12	-61.91	0.26	61.95	268.04
4475.00	0.70	192.05	4473.94	54.01	-2.38	-61.96	0.79	62.01	267.80
4500.00	0.84	204.99	4498.94	54.27	-2.69	-62.07	0.87	62.13	267.52
4525.00	1.26	232.20	4523.94	54.69	-3.03	-62.37	2.56	62.44	267.22
4550.00	1.35	231.17	4548.93	55.26	-3.38	-62.81	0.40	62.90	266.92
4575.00	1.23	230.51	4573.93	55.81	-3.73	-63.25	0.51	63.36	266.62
4600.00	1.35	228.66	4598.92	56.37	-4.10	-63.68	0.50	63.81	266.32
4625.00	1.30	227.28	4623.91	56.94	-4.48	-64.10	0.21	64.26	266.00
4650.00	1.31	225.33	4648.91	57.49	-4.88	-64.52	0.18	64.70	265.68
4675.00	1.00	211.56	4673.90	57.97	-5.26	-64.83	1.66	65.05	265.36
4700.00	0.94	198.91	4698.90	58.32	-5.64	-65.01	0.88	65.26	265.04
4725.00	0.96	189.83	4723.89	58.62	-6.05	-65.12	0.61	65.40	264.70
4750.00	0.99	184.80	4748.89	58.88	-6.47	-65.17	0.36	65.49	264.33
4775.00	1.05	183.94	4773.89	59.15	-6.91	-65.20	0.24	65.57	263.95
4800.00	1.07	184.89	4798.88	59.42	-7.37	-65.24	0.10	65.66	263.55
4825.00	1.00	189.96	4823.88	59.70	-7.82	-65.30	0.45	65.76	263.17
4850.00	1.03	184.51	4848.87	59.98	-8.26	-65.35	0.41	65.87	262.80

MD	INC	AZIM	IVD	VS	N/S	E/W	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	ft	/100ft	ft	deg
4875.00	1.03	191.92	4873.87	60.27	-8.70	-65.42	0.53	65.99	262.42
4900.00	1.32	200.83	4898.86	60.65	-9.19	-65.57	1.37	66.21	262.02
4925.00	1.41	202.92	4923.86	61.13	-9.75	-65.79	0.39	66.51	261.57
4950.00	1.34	203.28	4948.85	61.62	-10.30	-66.02	0.30	66.82	261.13
4975.00	1.36	201.44	4973.84	62.10	-10.84	-66.25	0.20	67.13	260.70
5000.00	1.32	201.79	4998.84	62.56	-11.39	-66.46	0.18	67.43	260.28
5025.00	1.35	205.79	5023.83	63.04	-11.92	-66.70	0.39	67.75	259.87
5050.00	1.46	206.97	5048.82	63.56	-12.47	-66.97	0.48	68.12	259.45
5075.00	1.42	214.30	5073.81	64.12	-13.01	-67.29	0.76	68.54	259.06
5100.00	1.59	227.90	5098.81	64.74	-13.50	-67.72	1.59	69.05	258.73
5125.00	1.49	235.92	5123.80	65.41	-13.91	-68.25	0.96	69.65	258.48
5150.00	1.52	238.52	5148.79	66.06	-14.27	-68.80	0.31	70.26	258.29
5175.00	1.61	245.24	5173.78	66.74	-14.59	-69.40	0.82	70.92	258.13
5200.00	1.61	255.54	5198.77	67.43	-14.82	-70.06	1.16	71.61	258.06
5225.00	1.56	251.19	5223.76	68.10	-15.02	-70.72	0.52	72.30	258.01
5250.00	1.65	255.52	5248.75	68.77	-15.22	-71.39	0.61	73.00	257.97
5275.00	1.70	251.06	5273.74	69.48	-15.43	-72.09	0.55	73.72	257.92
5300.00	1.63	252.87	5298.73	70.18	-15.65	-72.78	0.35	74.44	257.86
5325.00	1.65	254.12	5323.72	70.87	-15.86	-73.47	0.18	75.16	257.82
5350.00	1.65	252.18	5348.71	71.57	-16.06	-74.16	0.22	75.88	257.78
5375.00	1.77	252.23	5373.70	72.29	-16.29	-74.86	0.49	76.62	257.72
5400.00	1.69	255.73	5398.69	73.01	-16.50	-75.59	0.53	77.37	257.69
5425.00	1.75	256.30	5423.67	73.73	-16.68	-76.31	0.27	78.12	257.67
5450.00	1.78	255.39	5448.66	74.46	-16.87	-77.06	0.15	78.89	257.65
5475.00	1.71	255.24	5473.65	75.19	-17.06	-77.80	0.27	79.64	257.63
5500.00	1.71	254.62	5498.64	75.90	-17.26	-78.52	0.08	80.39	257.60
5525.00	1.70	252.20	5523.63	76.62	-17.47	-79.23	0.30	81.13	257.57
5550.00	1.57	252.95	5548.62	77.31	-17.68	-79.91	0.49	81.84	257.52
5575.00	1.64	251.86	5573.61	77.99	-17.89	-80.58	0.28	82.54	257.48
5600.00	1.69	254.06	5598.60	78.69	-18.11	-81.27	0.34	83.26	257.44
5625.00	1.73	253.22	5623.59	79.41	-18.32	-81.99	0.17	84.01	257.41
5650.00	1.69	253.78	5648.58	80.13	-18.53	-82.70	0.14	84.75	257.37

MD	INC	AZIM	TVD	VS	N/S	E/W	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	ft	/100ft	ft	deg
5675.00	1.69	250.29	5673.56	80.85	-18.76	-83.40	0.41	85.49	257.33
5700.00	1.75	252.09	5698.55	81.58	-19.00	-84.11	0.33	86.23	257.27
5725.00	1.82	250.93	5723.54	82.34	-19.24	-84.85	0.31	87.01	257.22
5750.00	1.77	254.20	5748.53	83.10	-19.48	-85.60	0.45	87.79	257.18
5775.00	1.62	255.48	5773.52	83.81	-19.67	-86.31	0.65	88.53	257.16
5800.00	1.78	250.36	5798.51	84.53	-19.89	-87.02	0.90	89.27	257.12
5825.00	1.88	253.02	5823.49	85.31	-20.14	-87.78	0.51	90.06	257.08
5850.00	1.82	253.99	5848.48	86.08	-20.37	-88.55	0.28	90.87	257.04
5875.00	1.73	252.95	5873.47	86.83	-20.59	-89.29	0.36	91.64	257.01
5900.00	1.81	250.92	5898.46	87.58	-20.83	-90.03	0.41	92.41	256.97
5925.00	1.84	252.66	5923.44	88.36	-21.08	-90.79	0.25	93.20	256.93
5950.00	1.89	254.32	5948.43	89.14	-21.31	-91.57	0.28	94.01	256.90
5975.00	1.76	254.38	5973.42	89.91	-21.53	-92.33	0.50	94.81	256.88
6000.00	1.73	250.96	5998.41	90.65	-21.75	-93.06	0.43	95.57	256.84
6025.00	1.72	254.70	6023.40	91.37	-21.98	-93.78	0.45	96.32	256.81
6050.00	1.75	253.43	6048.38	92.10	-22.18	-94.51	0.20	97.08	256.79
6075.00	1.81	251.63	6073.37	92.86	-22.42	-95.25	0.33	97.85	256.76
6100.00	1.81	250.68	6098.36	93.63	-22.67	-96.00	0.12	98.64	256.71
6125.00	1.54	248.23	6123.35	94.35	-22.93	-96.68	1.15	99.36	256.66
6150.00	1.39	247.51	6148.34	94.98	-23.17	-97.27	0.59	99.99	256.60
6175.00	1.30	247.24	6173.33	95.55	-23.39	-97.81	0.36	100.57	256.55
6200.00	1.24	245.11	6198.33	96.10	-23.62	-98.32	0.32	101.12	256.49
6225.00	1.22	244.00	6223.32	96.63	-23.85	-98.80	0.12	101.64	256.43
6250.00	1.20	243.47	6248.32	97.16	-24.08	-99.27	0.08	102.15	256.37
6275.00	1.20	249.30	6273.31	97.68	-24.29	-99.75	0.49	102.67	256.32
6300.00	1.17	247.15	6298.31	98.18	-24.48	-100.23	0.22	103.18	256.28
6325.00	1.23	242.62	6323.30	98.70	-24.70	-100.71	0.45	103.69	256.22
6350.00	1.18	247.92	6348.29	99.23	-24.92	-101.18	0.48	104.21	256.16
6375.00	1.19	249.34	6373.29	99.74	-25.11	-101.67	0.12	104.72	256.13
6400.00	1.10	244.31	6398.28	100.23	-25.31	-102.12	0.53	105.21	256.08
6425.00	1.22	246.84	6423.28	100.73	-25.52	-102.59	0.53	105.71	256.03
6450.00	1.23	248.92	6448.27	101.26	-25.72	-103.08	0.18	106.24	255.99

MD	INC	AZIM	TVD	VS	N/S	E/W	DLS	CLOSURE	CLOSURE
ft	deg	deg	ft	ft	ft	ft	/100ft	DIST	DIR
6475.00	1.28	245.93	6473.27	101.80	-25.93	-103.59	0.33	106.78	255.95
6500.00	1.25	248.15	6498.26	102.34	-26.14	-104.09	0.23	107.33	255.90
6525.00	1.27	249.43	6523.26	102.88	-26.34	-104.61	0.14	107.87	255.87
6550.00	1.26	246.52	6548.25	103.43	-26.55	-105.12	0.26	108.42	255.83
6575.00	1.20	244.88	6573.24	103.96	-26.77	-105.61	0.30	108.95	255.78
6600.00	1.27	243.15	6598.24	104.50	-27.01	-106.09	0.31	109.47	255.72
6625.00	1.28	241.43	6623.23	105.05	-27.26	-106.58	0.17	110.02	255.65
6650.00	1.36	244.12	6648.23	105.63	-27.53	-107.10	0.40	110.58	255.59
6675.00	1.31	245.34	6673.22	106.21	-27.78	-107.62	0.23	111.15	255.53
6700.00	1.30	243.59	6698.21	106.77	-28.02	-108.14	0.17	111.71	255.47
6725.00	1.25	245.72	6723.21	107.33	-28.26	-108.64	0.27	112.26	255.42
6750.00	1.22	248.87	6748.20	107.86	-28.47	-109.14	0.30	112.79	255.38
6775.00	1.20	247.22	6773.19	108.38	-28.67	-109.63	0.16	113.31	255.35
6800.00	1.25	242.98	6798.19	108.91	-28.89	-110.11	0.40	113.84	255.30
6825.00	1.31	241.64	6823.18	109.47	-29.15	-110.61	0.28	114.38	255.24
6850.00	1.29	241.42	6848.18	110.03	-29.42	-111.10	0.11	114.93	255.17
6875.00	1.31	242.53	6873.17	110.60	-29.69	-111.60	0.15	115.49	255.10
6900.00	1.26	247.77	6898.16	111.15	-29.92	-112.11	0.52	116.04	255.06
6925.00	1.28	242.10	6923.16	111.70	-30.16	-112.61	0.51	116.58	255.01
6950.00	1.29	242.99	6948.15	112.26	-30.42	-113.11	0.08	117.13	254.95
6975.00	1.35	244.26	6973.14	112.84	-30.67	-113.63	0.25	117.69	254.89
7000.00	1.41	244.13	6998.14	113.43	-30.93	-114.17	0.26	118.28	254.84
7025.00	1.44	243.27	7023.13	114.05	-31.21	-114.72	0.14	118.89	254.78
7050.00	1.36	244.38	7048.12	114.66	-31.48	-115.27	0.32	119.49	254.73
7075.00	1.46	240.09	7073.11	115.27	-31.77	-115.82	0.58	120.09	254.66
7100.00	1.31	245.34	7098.11	115.88	-32.04	-116.35	0.78	120.69	254.60
7125.00	1.46	242.92	7123.10	116.48	-32.31	-116.90	0.64	121.28	254.55
7150.00	1.34	241.54	7148.09	117.09	-32.59	-117.44	0.50	121.88	254.49
7175.00	1.35	245.26	7173.09	117.67	-32.86	-117.96	0.35	122.45	254.44
7200.00	1.36	246.16	7198.08	118.26	-33.10	-118.50	0.10	123.04	254.39
7225.00	1.31	244.42	7223.07	118.84	-33.34	-119.03	0.27	123.62	254.35
7250.00	1.27	241.17	7248.06	119.40	-33.60	-119.54	0.34	124.17	254.30

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	1.37	249.22	7273.06	119.97	-33.84	-120.06	0.84	124.73	254.26
7300.00	1.23	250.77	7298.05	120.53	-34.03	-120.59	0.54	125.30	254.24
7325.00	1.21	248.89	7323.05	121.05	-34.22	-121.09	0.19	125.83	254.22
7350.00	1.21	251.57	7348.04	121.56	-34.40	-121.58	0.23	126.36	254.20
7375.00	1.20	252.15	7373.04	122.08	-34.56	-122.08	0.08	126.88	254.19
7400.00	1.10	250.07	7398.03	122.56	-34.72	-122.56	0.41	127.38	254.18
7425.00	1.13	249.64	7423.03	123.04	-34.89	-123.01	0.11	127.87	254.17
7450.00	1.01	250.62	7448.02	123.50	-35.05	-123.45	0.47	128.33	254.15
7475.00	1.02	248.42	7473.02	123.93	-35.20	-123.87	0.16	128.77	254.14
7500.00	0.93	256.35	7498.01	124.35	-35.33	-124.27	0.65	129.20	254.13
7525.00	1.01	251.67	7523.01	124.75	-35.45	-124.68	0.44	129.62	254.13
7550.00	0.90	251.07	7548.01	125.16	-35.58	-125.07	0.43	130.04	254.12
7575.00	0.90	249.38	7573.00	125.54	-35.71	-125.44	0.11	130.43	254.11
7600.00	1.02	252.25	7598.00	125.95	-35.85	-125.84	0.54	130.85	254.10
7625.00	0.78	253.73	7623.00	126.33	-35.97	-126.21	1.00	131.24	254.09
7650.00	0.86	255.87	7647.99	126.67	-36.06	-126.56	0.34	131.60	254.10
7675.00	0.76	260.64	7672.99	127.00	-36.13	-126.90	0.46	131.95	254.11
7700.00	0.78	271.90	7697.99	127.30	-36.15	-127.24	0.61	132.27	254.14
7725.00	0.73	273.62	7722.99	127.57	-36.14	-127.57	0.22	132.59	254.18
7750.00	0.73	266.25	7747.99	127.84	-36.14	-127.88	0.38	132.89	254.22
7775.00	0.82	269.78	7772.98	128.14	-36.15	-128.22	0.41	133.22	254.26
7800.00	0.76	271.84	7797.98	128.43	-36.15	-128.57	0.28	133.55	254.30
7825.00	0.76	263.28	7822.98	128.72	-36.16	-128.90	0.45	133.88	254.33
7850.00	0.71	272.14	7847.98	129.00	-36.17	-129.22	0.50	134.19	254.36
7875.00	0.69	264.65	7872.97	129.26	-36.18	-129.52	0.38	134.48	254.39
7900.00	0.63	271.29	7897.97	129.51	-36.19	-129.81	0.38	134.76	254.42
7925.00	0.71	262.35	7922.97	129.77	-36.21	-130.10	0.52	135.04	254.45
7950.00	0.73	264.42	7947.97	130.05	-36.25	-130.41	0.13	135.35	254.47
7975.00	0.65	268.20	7972.97	130.32	-36.27	-130.71	0.35	135.65	254.49
8000.00	0.69	270.85	7997.97	130.57	-36.27	-131.00	0.20	135.93	254.53
8025.00	0.63	278.88	8022.96	130.80	-36.24	-131.29	0.45	136.20	254.57
8050.00	0.73	265.87	8047.96	131.04	-36.23	-131.58	0.72	136.48	254.60

AMD ft	INC deg	AZIM deg	TRVD ft	VS ft	N/S ft	E/W ft	DLS /100ft	CLOSURE DIST ft	CLOSURE DIR deg
8075.00	0.63	271.63	8072.96	131.30	-36.24	-131.88	0.46	136.77	254.63
8100.00	0.51	265.28	8097.96	131.51	-36.25	-132.13	0.54	137.01	254.66
8125.00	0.57	263.86	8122.96	131.73	-36.27	-132.36	0.23	137.24	254.68
8150.00	0.65	267.93	8147.96	131.96	-36.29	-132.63	0.37	137.50	254.70
8175.00	0.67	268.12	8172.96	132.21	-36.30	-132.92	0.10	137.79	254.73
8200.00	0.54	275.90	8197.95	132.43	-36.29	-133.18	0.62	138.04	254.76
8225.00	0.55	268.22	8222.95	132.63	-36.28	-133.42	0.29	138.27	254.79
8250.00	0.55	267.45	8247.95	132.84	-36.29	-133.66	0.03	138.50	254.81
8275.00	0.45	276.76	8272.95	133.02	-36.29	-133.88	0.53	138.71	254.83
8300.00	0.27	270.70	8297.95	133.15	-36.27	-134.03	0.71	138.85	254.86
8325.00	0.33	264.74	8322.95	133.26	-36.28	-134.16	0.28	138.98	254.87
8350.00	0.32	271.19	8347.95	133.39	-36.28	-134.30	0.16	139.12	254.88
8375.00	0.22	266.70	8372.95	133.49	-36.29	-134.42	0.41	139.23	254.89
8400.00	0.21	248.90	8397.95	133.57	-36.31	-134.51	0.26	139.32	254.90
8425.00	0.12	269.40	8422.95	133.64	-36.32	-134.58	0.40	139.39	254.90
8450.00	0.12	287.84	8447.95	133.68	-36.31	-134.63	0.16	139.44	254.90
8475.00	0.07	221.53	8472.95	133.71	-36.32	-134.67	0.45	139.48	254.91
8500.00	0.10	183.70	8497.95	133.74	-36.35	-134.68	0.25	139.50	254.90
8525.00	0.13	197.50	8522.95	133.77	-36.40	-134.69	0.18	139.52	254.88
8550.00	0.13	203.63	8547.95	133.82	-36.45	-134.71	0.06	139.55	254.86
8575.00	0.08	180.25	8572.95	133.85	-36.50	-134.72	0.27	139.58	254.84
8600.00	0.14	166.06	8597.95	133.87	-36.54	-134.71	0.28	139.58	254.82
8625.00	0.10	207.58	8622.95	133.90	-36.59	-134.71	0.38	139.60	254.80
8650.00	0.10	222.38	8647.95	133.93	-36.63	-134.74	0.10	139.63	254.79
8675.00	0.23	210.55	8672.95	134.00	-36.69	-134.78	0.53	139.68	254.77
8700.00	0.28	187.75	8697.95	134.08	-36.79	-134.81	0.45	139.74	254.74
8725.00	0.33	199.75	8722.95	134.18	-36.92	-134.84	0.33	139.81	254.69
8750.00	0.34	199.85	8747.95	134.29	-37.06	-134.89	0.01	139.89	254.64
8775.00	0.39	211.49	8772.95	134.43	-37.20	-134.96	0.37	140.00	254.59
8800.00	0.42	207.61	8797.95	134.58	-37.35	-135.05	0.16	140.12	254.54
8825.00	0.36	190.85	8822.95	134.71	-37.51	-135.11	0.51	140.22	254.48
8850.00	0.39	198.43	8847.94	134.83	-37.67	-135.15	0.25	140.30	254.43

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	0.44	198.44	8872.94	134.97	-37.84	-135.21	0.19	140.40	254.36
8900.00	0.42	198.63	8897.94	135.11	-38.02	-135.27	0.09	140.51	254.30
8925.00	0.44	190.92	8922.94	135.25	-38.20	-135.31	0.24	140.60	254.24
8950.00	0.44	178.74	8947.94	135.36	-38.39	-135.33	0.37	140.67	254.16
8975.00	0.56	178.34	8972.94	135.47	-38.60	-135.32	0.49	140.72	254.08
9000.00	0.64	179.69	8997.94	135.60	-38.87	-135.32	0.33	140.79	253.97
9025.00	0.71	164.83	9022.94	135.72	-39.16	-135.28	0.75	140.83	253.86
9050.00	0.77	162.21	9047.94	135.80	-39.47	-135.19	0.28	140.83	253.73
9075.00	0.66	160.03	9072.93	135.87	-39.76	-135.09	0.46	140.82	253.60
9100.00	0.61	167.35	9097.93	135.95	-40.03	-135.01	0.38	140.82	253.49
9125.00	0.72	163.37	9122.93	136.03	-40.31	-134.93	0.49	140.82	253.37
9150.00	0.76	161.77	9147.93	136.11	-40.61	-134.84	0.17	140.82	253.24
9175.00	0.82	158.85	9172.93	136.18	-40.94	-134.72	0.28	140.80	253.10
9200.00	0.94	167.93	9197.92	136.28	-41.30	-134.61	0.75	140.81	252.94
9225.00	1.03	169.61	9222.92	136.43	-41.73	-134.53	0.36	140.85	252.77
9250.00	1.16	175.14	9247.92	136.63	-42.20	-134.47	0.66	140.93	252.58
9275.00	1.16	174.86	9272.91	136.85	-42.70	-134.42	0.04	141.04	252.38
9300.00	1.15	173.74	9297.90	137.07	-43.20	-134.37	0.11	141.15	252.18
9325.00	1.18	172.05	9322.90	137.28	-43.71	-134.31	0.18	141.24	251.97
9350.00	1.22	173.81	9347.89	137.50	-44.23	-134.25	0.23	141.34	251.77
9375.00	1.17	176.27	9372.89	137.74	-44.75	-134.20	0.30	141.46	251.56
9400.00	1.20	173.32	9397.88	137.96	-45.26	-134.15	0.27	141.58	251.36
9425.00	1.19	174.70	9422.88	138.19	-45.78	-134.10	0.12	141.70	251.15
9450.00	1.15	172.47	9447.87	138.41	-46.28	-134.04	0.25	141.81	250.95
9475.00	1.28	179.94	9472.87	138.65	-46.81	-134.01	0.82	141.95	250.75
9500.00	1.13	181.83	9497.86	138.94	-47.33	-134.02	0.63	142.13	250.55
9525.00	1.05	183.28	9522.86	139.20	-47.81	-134.04	0.31	142.31	250.37
9550.00	1.04	186.72	9547.85	139.47	-48.26	-134.08	0.26	142.50	250.20
9575.00	0.99	189.19	9572.85	139.76	-48.70	-134.14	0.25	142.71	250.05
9600.00	0.99	194.92	9597.85	140.05	-49.12	-134.23	0.40	142.94	249.90
9625.00	0.90	196.79	9622.84	140.36	-49.52	-134.34	0.39	143.18	249.77
9650.00	0.99	208.03	9647.84	140.69	-49.90	-134.50	0.82	143.46	249.65

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	0.92	215.22	9672.84	141.06	-50.25	-134.72	0.55	143.78	249.54
9700.00	1.09	216.90	9697.83	141.46	-50.60	-134.97	0.70	144.15	249.45
9725.00	1.15	215.65	9722.83	141.92	-51.00	-135.26	0.28	144.56	249.34
9750.00	1.17	215.70	9747.82	142.39	-51.41	-135.56	0.06	144.98	249.23
9775.00	1.17	217.06	9772.82	142.86	-51.82	-135.86	0.11	145.41	249.12
9800.00	1.07	221.93	9797.81	143.32	-52.20	-136.17	0.55	145.83	249.03
9825.00	1.20	222.45	9822.81	143.80	-52.57	-136.51	0.53	146.28	248.94
9850.00	1.27	223.23	9847.80	144.32	-52.96	-136.87	0.26	146.76	248.85
9875.00	1.29	224.41	9872.79	144.86	-53.36	-137.26	0.14	147.27	248.75
9900.00	1.23	222.02	9897.79	145.39	-53.77	-137.64	0.31	147.77	248.66
9925.00	1.25	218.96	9922.78	145.90	-54.18	-137.99	0.27	148.24	248.56
9950.00	1.28	226.04	9947.78	146.43	-54.58	-138.36	0.63	148.74	248.47
9975.00	1.31	222.37	9972.77	146.98	-54.99	-138.75	0.35	149.25	248.38
10000.00	1.27	223.52	9997.76	147.52	-55.40	-139.13	0.17	149.76	248.29
10025.00	1.29	223.95	10022.76	148.06	-55.80	-139.52	0.08	150.27	248.20
10050.00	1.34	223.48	10047.75	148.62	-56.22	-139.92	0.19	150.79	248.11
10075.00	1.32	221.63	10072.74	149.17	-56.64	-140.31	0.19	151.31	248.02
10100.00	1.24	222.24	10097.74	149.71	-57.06	-140.68	0.32	151.81	247.92
10125.00	1.25	217.23	10122.73	150.22	-57.47	-141.03	0.44	152.29	247.83
10150.00	1.35	221.79	10147.73	150.76	-57.91	-141.39	0.59	152.79	247.73
10175.00	1.30	213.97	10172.72	151.30	-58.36	-141.74	0.75	153.29	247.62
10200.00	1.27	213.79	10197.71	151.81	-58.83	-142.05	0.13	153.75	247.50
10225.00	1.46	208.83	10222.71	152.33	-59.34	-142.36	0.90	154.23	247.37
10250.00	1.54	204.85	10247.70	152.89	-59.92	-142.66	0.54	154.73	247.22
10275.00	1.61	207.77	10272.69	153.47	-60.54	-142.96	0.43	155.25	247.05
10300.00	1.65	203.52	10297.68	154.07	-61.18	-143.27	0.50	155.78	246.88
10325.00	1.71	200.59	10322.67	154.66	-61.86	-143.54	0.41	156.30	246.69
10350.00	1.81	197.76	10347.66	155.25	-62.58	-143.79	0.54	156.82	246.48
10375.00	1.79	193.44	10372.64	155.83	-63.34	-144.01	0.55	157.32	246.26
10400.00	1.95	199.32	10397.63	156.44	-64.12	-144.24	1.00	157.85	246.03
10425.00	1.99	194.05	10422.61	157.08	-64.94	-144.48	0.74	158.41	245.80
10450.00	1.91	197.94	10447.60	157.71	-65.76	-144.72	0.62	158.96	245.56

MD	INC	AZIM	TVD	VS	IN/S	E/W	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	ft	/100ft	ft	deg
10475.00	2.04	195.44	10472.59	158.35	-66.59	-144.96	0.61	159.53	245.33
10500.00	2.15	194.46	10497.57	159.01	-67.47	-145.20	0.46	160.11	245.08
10525.00	2.28	191.53	10522.55	159.69	-68.41	-145.42	0.71	160.70	244.81
10550.00	2.35	188.58	10547.53	160.36	-69.40	-145.59	0.56	161.29	244.51
10575.00	2.45	187.08	10572.51	161.03	-70.44	-145.73	0.46	161.87	244.20
10600.00	2.58	184.32	10597.48	161.69	-71.53	-145.84	0.71	162.44	243.87
10625.00	2.77	182.58	10622.46	162.37	-72.70	-145.91	0.83	163.02	243.52
10650.00	2.81	178.63	10647.43	163.01	-73.92	-145.93	0.79	163.58	243.14
10675.00	2.82	182.96	10672.40	163.67	-75.15	-145.94	0.85	164.15	242.76
10700.00	2.83	179.75	10697.37	164.34	-76.38	-145.97	0.64	164.75	242.38
10725.00	2.92	182.01	10722.33	165.02	-77.63	-145.99	0.56	165.35	242.00
10750.00	2.99	181.97	10747.30	165.73	-78.92	-146.04	0.29	166.00	241.61
10775.00	3.10	184.06	10772.27	166.48	-80.24	-146.11	0.62	166.69	241.22
10800.00	2.92	188.36	10797.23	167.29	-81.55	-146.25	1.14	167.44	240.86
10825.00	2.98	192.99	10822.20	168.15	-82.81	-146.48	0.98	168.27	240.52
10850.00	2.85	200.79	10847.17	169.10	-84.02	-146.85	1.67	169.19	240.22
10875.00	2.76	204.11	10872.14	170.09	-85.15	-147.32	0.73	170.16	239.97
10900.00	2.75	206.80	10897.11	171.10	-86.24	-147.83	0.52	171.15	239.74
10925.00	2.82	204.81	10922.08	172.12	-87.33	-148.36	0.48	172.16	239.52
10950.00	2.91	206.49	10947.05	173.17	-88.46	-148.90	0.49	173.19	239.29
10975.00	2.89	208.56	10972.01	174.26	-89.58	-149.49	0.42	174.27	239.07
11000.00	2.92	206.79	10996.98	175.35	-90.70	-150.08	0.38	175.35	238.85
11025.00	2.84	213.45	11021.95	176.45	-91.78	-150.70	1.38	176.45	238.66
11050.00	2.72	220.72	11046.92	177.58	-92.75	-151.43	1.48	177.58	238.51
11075.00	2.58	224.05	11071.90	178.69	-93.60	-152.21	0.82	178.69	238.41
11100.00	2.59	226.29	11096.87	179.79	-94.40	-153.01	0.41	179.79	238.33
11125.00	2.67	228.83	11121.84	180.92	-95.17	-153.86	0.55	180.92	238.26
11150.00	2.70	226.86	11146.82	182.07	-95.96	-154.73	0.39	182.07	238.19
11175.00	2.77	230.79	11171.79	183.24	-96.74	-155.62	0.80	183.24	238.13
11200.00	2.43	232.13	11196.76	184.37	-97.45	-156.51	1.38	184.37	238.09
11225.00	2.38	232.02	11221.74	185.41	-98.10	-157.34	0.20	185.42	238.06
11250.00	2.20	235.03	11246.72	186.41	-98.69	-158.14	0.89	186.41	238.03

MD	INC	AZIM	TVD	VS	N/S	E/W	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	ft	/100ft	ft	deg
11275.00	1.88	240.02	11271.70	187.30	-99.17	-158.89	1.47	187.30	238.03
11300.00	1.73	243.78	11296.69	188.08	-99.54	-159.58	0.74	188.08	238.05
11325.00	1.72	250.35	11321.68	188.82	-99.84	-160.28	0.79	188.83	238.08
11350.00	1.78	255.64	11346.67	189.56	-100.06	-161.00	0.68	189.56	238.14
11375.00	1.78	260.04	11371.66	190.29	-100.22	-161.76	0.55	190.29	238.22
11400.00	1.94	264.99	11396.64	191.03	-100.33	-162.57	0.91	191.03	238.32
11412.00	2.15	262.36	11408.64	191.42	-100.37	-162.99	1.90	191.42	238.37