

COG

FEZ FEDERAL COM 704H

SCANDRILL QUEST

3/4/2019

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

JAKE ELGER

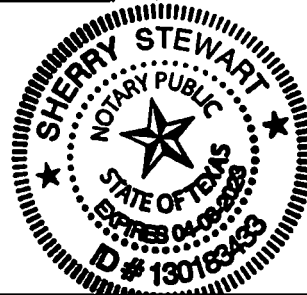
Notarized this date 04 of APRIL, 2019.

Sherry Stewart

Notary Signature

County of Midland

State of Texas



Scientific Drilling

The

In Wellbore Placement

SURVEY REPORT

FEZ FEDERAL COM 704H

FINAL GYRO SURVEY

CUSTOMER COG
PROJECT COG - FEZ FEDERAL COM
FIELD fez federal com

SDI JOB NO. OP.017018
SDI DISTRICT Midland
SDI KIT/UNIT

SITE INFORMATION

Site Name Fez Federal Com 704H
Lat/Long 32.1382806° N, 103.3771486° W
Northing 415,342.2 ft
Easting 795,972.5 ft

Section
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**

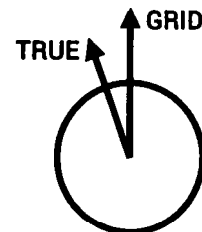
Lat/Long 32.1382811° N, 103.3790058° W
Northing
Easting
UWI 30-025-45280

DEPTH AND ELEVATION REFERENCE

Ground Level 3260.3 ft above Mean Sea
Level
Reference Datum RKB
Reference Height 30 ft above G.L.
Reference Elevation 3290.3 ft

VERTICAL SECTION REFERENCE

+N/-S 0 ft
+E/-W 0 ft
Proposal Direction 1.53°
Calculation Method Minimum Curvature

**LOCAL GRAVITY REFERENCE INFORMATION**

Local Gravity 998.196 mG [computed]
True to Grid subtract 0.51°

WELL NOTES**OPERATORS**

JESUS CARRILLO, ROBERT SHERWOOD

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	0.45	63.13	100.00	0.19	0.18	0.35	0.45	0.39	63.13
125.00	0.42	82.03	125.00	0.25	0.23	0.53	0.58	0.58	66.06
150.00	0.59	103.06	150.00	0.24	0.22	0.74	0.99	0.77	73.64
175.00	0.76	116.95	175.00	0.14	0.11	1.01	0.94	1.02	83.60
200.00	0.92	92.37	199.99	0.07	0.03	1.36	1.55	1.36	88.71
225.00	0.91	84.04	224.99	0.09	0.04	1.76	0.53	1.76	88.60
250.00	0.91	82.21	249.99	0.15	0.09	2.15	0.12	2.16	87.59
275.00	0.86	74.83	274.98	0.23	0.17	2.53	0.50	2.54	86.23
300.00	0.80	74.33	299.98	0.34	0.26	2.88	0.24	2.90	84.78
325.00	0.69	72.45	324.98	0.44	0.36	3.20	0.45	3.22	83.64
350.00	0.61	85.74	349.98	0.50	0.41	3.47	0.69	3.50	83.24
375.00	0.57	99.00	374.98	0.50	0.40	3.73	0.57	3.75	83.84
400.00	0.54	106.32	399.97	0.45	0.35	3.96	0.30	3.98	84.96
425.00	0.52	106.31	424.97	0.40	0.28	4.19	0.10	4.20	86.12
450.00	0.54	102.77	449.97	0.34	0.23	4.41	0.16	4.42	87.07
475.00	0.49	99.41	474.97	0.31	0.18	4.63	0.25	4.64	87.75
500.00	0.42	96.01	499.97	0.28	0.15	4.83	0.30	4.83	88.16
525.00	0.39	88.21	524.97	0.28	0.15	5.01	0.26	5.01	88.31
550.00	0.40	74.13	549.97	0.31	0.17	5.18	0.39	5.18	88.07
575.00	0.37	68.84	574.97	0.37	0.23	5.33	0.18	5.34	87.56
600.00	0.34	51.67	599.97	0.45	0.30	5.47	0.44	5.48	86.84
625.00	0.25	39.90	624.97	0.54	0.39	5.56	0.43	5.57	86.00
650.00	0.11	13.43	649.97	0.60	0.45	5.60	0.62	5.62	85.36
675.00	0.04	246.45	674.97	0.62	0.47	5.60	0.57	5.62	85.15
700.00	0.20	160.14	699.97	0.58	0.43	5.60	0.79	5.62	85.60
725.00	0.19	131.77	724.97	0.51	0.36	5.65	0.38	5.66	86.33
750.00	0.22	112.56	749.97	0.47	0.32	5.72	0.30	5.73	86.84
775.00	0.23	98.54	774.97	0.45	0.29	5.82	0.23	5.83	87.15
800.00	0.22	75.22	799.97	0.45	0.29	5.92	0.37	5.92	87.15
825.00	0.22	64.55	824.97	0.49	0.33	6.00	0.16	6.01	86.88
850.00	0.15	37.92	849.97	0.53	0.37	6.07	0.43	6.08	86.49

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	0.16	9.66	874.97	0.60	0.43	6.09	0.31	6.11	85.94
900.00	0.12	359.65	899.97	0.66	0.49	6.10	0.18	6.12	85.36
925.00	0.21	356.12	924.97	0.73	0.57	6.09	0.35	6.12	84.67
950.00	0.18	351.82	949.97	0.82	0.65	6.09	0.14	6.12	83.87
975.00	0.17	341.95	974.97	0.89	0.73	6.07	0.13	6.11	83.16
1000.00	0.23	325.12	999.97	0.97	0.81	6.03	0.34	6.08	82.38
1025.00	0.20	311.02	1024.97	1.04	0.88	5.96	0.25	6.03	81.63
1050.00	0.09	330.77	1049.97	1.08	0.92	5.92	0.50	5.99	81.14
1075.00	0.12	131.66	1074.97	1.08	0.92	5.93	0.81	6.00	81.16
1100.00	0.26	117.51	1099.97	1.04	0.88	6.00	0.61	6.07	81.67
1125.00	0.36	126.51	1124.97	0.97	0.80	6.12	0.44	6.17	82.51
1150.00	0.42	126.23	1149.97	0.87	0.70	6.25	0.21	6.29	83.58
1175.00	0.44	127.99	1174.96	0.76	0.59	6.40	0.10	6.43	84.72
1200.00	0.45	126.86	1199.96	0.65	0.47	6.56	0.06	6.57	85.86
1225.00	0.51	124.42	1224.96	0.53	0.35	6.73	0.26	6.73	87.00
1250.00	0.58	129.95	1249.96	0.39	0.21	6.92	0.36	6.92	88.28
1275.00	0.53	112.43	1274.96	0.27	0.08	7.12	0.71	7.12	89.34
1300.00	0.55	116.93	1299.96	0.18	-0.02	7.33	0.18	7.33	90.13
1325.00	0.60	111.54	1324.96	0.08	-0.12	7.56	0.29	7.56	90.89
1350.00	0.64	93.07	1349.96	0.04	-0.17	7.82	0.81	7.82	91.27
1375.00	0.60	101.74	1374.96	0.01	-0.21	8.09	0.41	8.09	91.47
1400.00	0.59	100.78	1399.95	-0.04	-0.26	8.35	0.06	8.35	91.78
1425.00	0.63	97.42	1424.95	-0.07	-0.30	8.61	0.22	8.62	92.00
1450.00	0.50	99.79	1449.95	-0.10	-0.34	8.86	0.53	8.86	92.18
1475.00	0.57	132.39	1474.95	-0.20	-0.44	9.06	1.24	9.07	92.78
1500.00	1.04	113.03	1499.95	-0.36	-0.61	9.36	2.13	9.38	93.75
1525.00	1.37	122.30	1524.94	-0.60	-0.86	9.82	1.53	9.86	95.01
1550.00	1.76	120.17	1549.93	-0.94	-1.21	10.40	1.59	10.47	96.65
1575.00	2.15	124.47	1574.92	-1.37	-1.67	11.12	1.67	11.25	98.55
1600.00	2.41	125.19	1599.90	-1.92	-2.24	11.94	1.03	12.15	100.63
1625.00	2.96	130.46	1624.87	-2.62	-2.96	12.86	2.43	13.19	102.97
1650.00	3.22	132.03	1649.83	-3.48	-3.85	13.87	1.08	14.39	105.52

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	3.31	132.98	1674.79	-4.41	-4.81	14.92	0.41	15.68	107.88
1700.00	3.33	132.84	1699.75	-5.37	-5.80	15.98	0.10	17.00	109.94
1725.00	3.34	137.37	1724.71	-6.37	-6.83	17.00	1.05	18.32	111.87
1750.00	3.30	138.87	1749.67	-7.42	-7.90	17.97	0.38	19.63	113.74
1775.00	3.34	140.50	1774.63	-8.50	-9.01	18.91	0.41	20.94	115.47
1800.00	3.40	140.90	1799.58	-9.61	-10.14	19.84	0.28	22.28	117.09
1825.00	3.53	142.53	1824.54	-10.77	-11.33	20.77	0.65	23.66	118.61
1850.00	3.99	147.93	1849.48	-12.10	-12.68	21.70	2.29	25.14	120.29
1875.00	4.02	146.97	1874.42	-13.54	-14.15	22.64	0.30	26.70	122.00
1900.00	3.97	146.86	1899.36	-14.97	-15.61	23.59	0.18	28.29	123.49
1925.00	3.99	148.04	1924.30	-16.41	-17.07	24.53	0.34	29.88	124.84
1950.00	4.14	146.80	1949.24	-17.88	-18.57	25.48	0.70	31.53	126.08
1975.00	4.13	146.88	1974.17	-19.36	-20.08	26.47	0.06	33.22	127.18
2000.00	4.31	146.29	1999.11	-20.87	-21.61	27.48	0.74	34.96	128.18
2025.00	4.50	143.79	2024.03	-22.41	-23.18	28.58	1.09	36.80	129.05
2050.00	4.65	142.37	2048.95	-23.97	-24.78	29.78	0.74	38.74	129.76
2075.00	4.54	142.36	2073.87	-25.53	-26.36	31.00	0.46	40.70	130.38
2100.00	4.73	134.49	2098.79	-27.00	-27.87	32.34	2.66	42.69	130.75
2125.00	5.53	131.04	2123.69	-28.47	-29.38	33.99	3.44	44.93	130.85
2150.00	5.70	130.63	2148.57	-30.02	-30.98	35.84	0.68	47.37	130.84
2175.00	5.73	127.71	2173.45	-31.54	-32.56	37.77	1.17	49.86	130.76
2200.00	5.77	127.84	2198.32	-33.02	-34.09	39.75	0.15	52.36	130.62
2225.00	5.81	127.17	2223.19	-34.50	-35.63	41.75	0.32	54.88	130.47
2250.00	5.81	127.16	2248.06	-35.97	-37.15	43.77	0.01	57.41	130.33
2275.00	5.86	125.82	2272.93	-37.43	-38.67	45.81	0.58	59.95	130.17
2300.00	5.95	124.43	2297.80	-38.85	-40.15	47.91	0.68	62.51	129.96
2325.00	5.98	124.49	2322.67	-40.26	-41.62	50.06	0.12	65.10	129.74
2350.00	6.08	123.93	2347.53	-41.68	-43.09	52.23	0.45	67.71	129.53
2375.00	6.11	124.08	2372.39	-43.11	-44.58	54.43	0.16	70.35	129.32
2400.00	6.08	124.56	2397.24	-44.55	-46.07	56.62	0.25	73.00	129.14
2425.00	5.88	124.20	2422.11	-45.96	-47.54	58.77	0.78	75.59	128.97
2450.00	6.03	123.27	2446.97	-47.34	-48.99	60.93	0.71	78.18	128.80

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	5.97	123.22	2471.84	-48.71	-50.42	63.11	0.27	80.78	128.62
2500.00	6.05	123.22	2496.70	-50.09	-51.85	65.30	0.34	83.39	128.45
2525.00	6.16	123.56	2521.56	-51.49	-53.31	67.52	0.45	86.03	128.29
2550.00	6.14	123.46	2546.41	-52.91	-54.79	69.76	0.08	88.70	128.15
2575.00	6.05	123.58	2571.27	-54.32	-56.26	71.97	0.38	91.35	128.02
2600.00	6.10	122.98	2596.13	-55.71	-57.71	74.18	0.31	93.98	127.88
2625.00	6.13	123.41	2620.99	-57.11	-59.17	76.41	0.23	96.64	127.75
2650.00	6.14	122.73	2645.85	-58.50	-60.63	78.65	0.30	99.30	127.63
2675.00	6.11	121.79	2670.70	-59.87	-62.05	80.90	0.43	101.96	127.49
2700.00	5.96	119.93	2695.57	-61.15	-63.40	83.16	0.98	104.57	127.32
2725.00	5.89	120.39	2720.43	-62.39	-64.69	85.39	0.34	107.13	127.15
2750.00	5.63	118.78	2745.31	-63.57	-65.93	87.57	1.22	109.61	126.98
2775.00	5.04	116.03	2770.20	-64.59	-67.00	89.63	2.56	111.90	126.78
2800.00	4.85	113.59	2795.11	-65.44	-67.91	91.58	1.12	114.01	126.56
2825.00	4.74	114.43	2820.02	-66.24	-68.76	93.49	0.55	116.05	126.33
2850.00	4.31	113.52	2844.94	-66.99	-69.56	95.29	1.75	117.98	126.13
2875.00	4.08	112.89	2869.87	-67.66	-70.28	96.97	0.92	119.76	125.93
2900.00	4.08	112.09	2894.81	-68.30	-70.96	98.61	0.23	121.49	125.74
2925.00	4.06	112.39	2919.75	-68.93	-71.63	100.26	0.11	123.22	125.54
2950.00	4.02	112.55	2944.68	-69.56	-72.30	101.89	0.18	124.94	125.36
2975.00	4.05	112.24	2969.62	-70.19	-72.98	103.51	0.15	126.65	125.18
3000.00	4.08	112.94	2994.56	-70.82	-73.66	105.15	0.24	128.38	125.01
3025.00	4.10	112.91	3019.50	-71.47	-74.35	106.80	0.07	130.13	124.85
3050.00	4.15	112.66	3044.43	-72.13	-75.05	108.45	0.19	131.89	124.68
3075.00	4.06	113.07	3069.37	-72.78	-75.74	110.10	0.38	133.64	124.53
3100.00	4.03	112.84	3094.30	-73.42	-76.43	111.72	0.12	135.37	124.38
3125.00	3.93	116.17	3119.24	-74.10	-77.15	113.30	1.02	137.08	124.25
3150.00	4.02	116.02	3144.18	-74.82	-77.91	114.86	0.36	138.79	124.15
3175.00	4.25	117.65	3169.12	-75.59	-78.73	116.47	1.02	140.58	124.06
3200.00	4.28	118.77	3194.05	-76.42	-79.60	118.10	0.35	142.42	123.98
3225.00	4.22	121.11	3218.98	-77.30	-80.53	119.71	0.73	144.27	123.93
3250.00	4.20	117.64	3243.91	-78.16	-81.43	121.31	1.02	146.10	123.87

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	4.31	118.16	3268.84	-78.98	-82.30	122.94	0.45	147.95	123.80
3300.00	4.24	118.76	3293.78	-79.83	-83.18	124.58	0.32	149.80	123.73
3325.00	4.26	117.76	3318.71	-80.66	-84.06	126.22	0.31	151.65	123.66
3350.00	4.28	118.17	3343.64	-81.49	-84.93	127.86	0.14	153.50	123.60
3375.00	4.27	118.98	3368.57	-82.34	-85.83	129.50	0.25	155.36	123.53
3400.00	4.16	117.70	3393.50	-83.17	-86.70	131.11	0.58	157.18	123.47
3425.00	4.31	117.25	3418.43	-83.97	-87.55	132.75	0.64	159.02	123.40
3450.00	4.26	116.84	3443.36	-84.78	-88.40	134.42	0.24	160.88	123.33
3475.00	4.24	115.40	3468.29	-85.55	-89.22	136.08	0.43	162.72	123.25
3500.00	4.07	114.69	3493.23	-86.27	-89.98	137.72	0.72	164.51	123.16
3525.00	4.17	115.58	3518.16	-86.99	-90.75	139.35	0.48	166.29	123.07
3550.00	4.22	115.16	3543.10	-87.73	-91.53	141.00	0.20	168.10	122.99
3575.00	4.19	114.52	3568.03	-88.46	-92.30	142.67	0.21	169.92	122.90
3600.00	4.18	113.98	3592.96	-89.16	-93.05	144.33	0.17	171.72	122.81
3625.00	4.36	112.39	3617.89	-89.85	-93.78	146.04	0.86	173.56	122.71
3650.00	4.27	111.21	3642.82	-90.50	-94.48	147.79	0.50	175.41	122.59
3675.00	4.30	112.30	3667.75	-91.15	-95.17	149.52	0.34	177.24	122.48
3700.00	4.25	113.22	3692.68	-91.82	-95.89	151.24	0.33	179.08	122.38
3725.00	4.33	111.55	3717.61	-92.49	-96.61	152.97	0.58	180.92	122.27
3750.00	4.34	111.99	3742.54	-93.14	-97.31	154.72	0.14	182.78	122.17
3775.00	4.38	111.22	3767.47	-93.79	-98.01	156.49	0.29	184.65	122.06
3800.00	4.56	118.56	3792.39	-94.57	-98.83	158.26	2.40	186.58	121.98
3825.00	4.81	120.59	3817.31	-95.53	-99.84	160.03	1.19	188.62	121.96
3850.00	5.05	122.64	3842.22	-96.61	-100.96	161.86	1.18	190.77	121.95
3875.00	5.16	123.68	3867.12	-97.77	-102.18	163.72	0.59	192.99	121.97
3900.00	5.12	123.21	3892.02	-98.96	-103.42	165.59	0.25	195.23	121.99
3925.00	5.09	123.58	3916.92	-100.13	-104.64	167.45	0.19	197.46	122.00
3950.00	5.08	123.46	3941.82	-101.30	-105.86	169.30	0.04	199.67	122.02
3975.00	5.09	123.83	3966.72	-102.48	-107.09	171.14	0.13	201.88	122.04
4000.00	5.17	124.94	3991.62	-103.70	-108.35	172.98	0.53	204.12	122.06
4025.00	4.89	125.66	4016.52	-104.91	-109.62	174.77	1.18	206.31	122.10
4050.00	5.11	123.19	4041.43	-106.10	-110.85	176.57	1.25	208.48	122.12

MD	INC	AZIM	TVD	VS	+N/-S	+E/-W	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	ft	°/100ft	ft	deg
4075.00	5.11	123.54	4066.33	-107.27	-112.07	178.43	0.13	210.71	122.13
4100.00	5.13	122.94	4091.23	-108.44	-113.30	180.29	0.23	212.94	122.15
4125.00	5.13	121.99	4116.13	-109.59	-114.50	182.18	0.34	215.17	122.15
4150.00	5.09	120.82	4141.03	-110.70	-115.66	184.08	0.46	217.40	122.14
4175.00	5.09	121.27	4165.93	-111.79	-116.80	185.98	0.16	219.62	122.13
4200.00	5.10	121.54	4190.83	-112.90	-117.96	187.88	0.10	221.84	122.12
4225.00	5.10	121.02	4215.73	-114.00	-119.11	189.78	0.18	224.06	122.11
4250.00	5.11	120.55	4240.63	-115.09	-120.25	191.69	0.18	226.28	122.10
4275.00	5.23	120.49	4265.53	-116.18	-121.39	193.63	0.46	228.54	122.09
4300.00	5.44	121.08	4290.42	-117.32	-122.58	195.62	0.87	230.86	122.07
4325.00	5.71	120.46	4315.31	-118.50	-123.83	197.71	1.11	233.28	122.06
4350.00	5.73	120.19	4340.18	-119.70	-125.08	199.86	0.15	235.78	122.04
4375.00	5.97	118.91	4365.05	-120.90	-126.34	202.08	1.08	238.32	122.01
4400.00	6.14	118.42	4389.91	-122.10	-127.60	204.39	0.70	240.95	121.98
4425.00	6.16	118.68	4414.77	-123.32	-128.88	206.74	0.16	243.63	121.94
4450.00	6.17	119.88	4439.62	-124.57	-130.20	209.09	0.52	246.31	121.91
4475.00	6.18	119.30	4464.48	-125.83	-131.53	211.43	0.25	249.00	121.89
4500.00	6.24	118.58	4489.33	-127.08	-132.83	213.79	0.39	251.70	121.85
4525.00	6.19	118.80	4514.19	-128.31	-134.13	216.17	0.21	254.40	121.82
4550.00	6.12	120.99	4539.04	-129.59	-135.47	218.49	0.98	257.08	121.80
4575.00	5.75	122.72	4563.91	-130.89	-136.83	220.68	1.63	259.66	121.80
4600.00	5.47	122.07	4588.79	-132.14	-138.14	222.75	1.16	262.11	121.81
4625.00	5.64	121.01	4613.67	-133.35	-139.41	224.81	0.82	264.53	121.80
4650.00	5.71	121.37	4638.55	-134.58	-140.69	226.93	0.31	267.00	121.80
4675.00	5.73	121.11	4663.42	-135.81	-141.98	229.06	0.12	269.49	121.79
4700.00	5.75	120.83	4688.30	-137.04	-143.27	231.20	0.14	271.99	121.78
4725.00	5.78	120.73	4713.17	-138.27	-144.55	233.36	0.13	274.50	121.78
4750.00	5.77	120.36	4738.04	-139.49	-145.83	235.53	0.15	277.02	121.76
4775.00	5.63	123.18	4762.92	-140.74	-147.14	237.64	1.26	279.50	121.76
4800.00	5.86	120.91	4787.79	-142.01	-148.47	239.76	1.29	282.01	121.77
4825.00	5.83	120.41	4812.66	-143.25	-149.76	241.95	0.24	284.55	121.76
4850.00	5.75	122.01	4837.54	-144.50	-151.07	244.11	0.73	287.07	121.75

MD	INC	AZIM	TVD	VS	+N/-S	+E/-W	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	ft	"/100ft	ft	deg
4875.00	5.89	120.15	4862.41	-145.75	-152.38	246.28	0.95	289.61	121.75
4900.00	5.92	120.61	4887.28	-146.99	-153.68	248.50	0.21	292.18	121.73
4925.00	5.85	121.52	4912.14	-148.25	-155.00	250.69	0.47	294.74	121.73
4950.00	5.46	122.40	4937.02	-149.50	-156.30	252.78	1.59	297.20	121.73
4975.00	5.30	122.65	4961.91	-150.71	-157.56	254.76	0.64	299.55	121.74
5000.00	5.28	122.10	4986.81	-151.89	-158.80	256.70	0.21	301.85	121.74
5025.00	5.37	122.69	5011.70	-153.08	-160.04	258.66	0.41	304.17	121.75
5050.00	5.37	122.76	5036.59	-154.29	-161.31	260.63	0.03	306.51	121.75
5075.00	5.40	122.70	5061.48	-155.51	-162.58	262.61	0.09	308.86	121.76
5100.00	5.36	122.32	5086.37	-156.71	-163.83	264.58	0.21	311.20	121.77
5125.00	5.31	122.33	5111.26	-157.90	-165.08	266.55	0.20	313.52	121.77
5150.00	5.31	122.74	5136.15	-159.09	-166.32	268.50	0.15	315.84	121.78
5175.00	5.16	122.77	5161.05	-160.28	-167.56	270.41	0.61	318.12	121.78
5200.00	4.99	122.57	5185.95	-161.42	-168.75	272.27	0.70	320.33	121.79
5225.00	5.11	121.53	5210.85	-162.54	-169.92	274.14	0.61	322.53	121.79
5250.00	5.04	122.35	5235.76	-163.65	-171.08	276.01	0.41	324.74	121.79
5275.00	5.05	123.16	5260.66	-164.79	-172.27	277.86	0.29	326.93	121.80
5300.00	4.93	122.23	5285.56	-165.92	-173.45	279.69	0.58	329.11	121.80
5325.00	4.96	122.12	5310.47	-167.02	-174.60	281.52	0.12	331.27	121.81
5350.00	4.92	121.61	5335.38	-168.11	-175.73	283.35	0.24	333.42	121.81
5375.00	4.73	122.78	5360.29	-169.18	-176.85	285.13	0.87	335.52	121.81
5400.00	4.54	122.80	5385.21	-170.23	-177.95	286.83	0.73	337.54	121.82
5425.00	4.41	122.74	5410.13	-171.24	-179.00	288.47	0.53	339.49	121.82
5450.00	4.38	121.52	5435.06	-172.21	-180.02	290.09	0.40	341.41	121.82
5475.00	4.50	120.70	5459.98	-173.17	-181.02	291.75	0.57	343.34	121.82
5500.00	4.60	121.18	5484.90	-174.14	-182.04	293.45	0.43	345.33	121.81
5525.00	4.61	120.79	5509.82	-175.13	-183.08	295.17	0.12	347.34	121.81
5550.00	4.50	121.16	5534.74	-176.11	-184.10	296.87	0.44	349.32	121.80
5575.00	4.60	120.39	5559.66	-177.08	-185.11	298.58	0.47	351.31	121.80
5600.00	4.60	121.59	5584.58	-178.06	-186.15	300.30	0.38	353.31	121.79
5625.00	4.66	121.67	5609.50	-179.08	-187.21	302.02	0.23	355.33	121.79
5650.00	4.71	121.46	5634.42	-180.10	-188.27	303.75	0.19	357.37	121.79

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	4.65	121.54	5659.34	-181.12	-189.34	305.49	0.21	359.41	121.79
5700.00	4.54	122.53	5684.26	-182.13	-190.40	307.19	0.55	361.42	121.79
5725.00	4.34	122.05	5709.18	-183.12	-191.44	308.83	0.83	363.35	121.79
5750.00	4.45	120.78	5734.11	-184.08	-192.44	310.46	0.60	365.27	121.79
5775.00	4.55	121.37	5759.03	-185.05	-193.45	312.15	0.44	367.23	121.79
5800.00	4.58	121.22	5783.95	-186.03	-194.48	313.85	0.11	369.22	121.79
5825.00	4.30	124.73	5808.87	-187.04	-195.53	315.47	1.56	371.15	121.79
5850.00	4.20	119.98	5833.81	-187.99	-196.53	317.03	1.46	373.00	121.79
5875.00	4.32	119.69	5858.74	-188.87	-197.45	318.64	0.47	374.86	121.78
5900.00	4.45	119.67	5883.66	-189.77	-198.39	320.30	0.52	376.77	121.77
5925.00	4.44	120.17	5908.59	-190.69	-199.36	321.98	0.15	378.70	121.76
5950.00	4.40	119.86	5933.51	-191.61	-200.33	323.65	0.21	380.63	121.76
5975.00	4.44	120.47	5958.44	-192.53	-201.29	325.31	0.25	382.56	121.75
6000.00	4.46	119.45	5983.37	-193.46	-202.26	326.99	0.33	384.49	121.74
6025.00	4.52	119.84	6008.29	-194.38	-203.23	328.70	0.29	386.45	121.73
6050.00	4.52	119.98	6033.21	-195.32	-204.21	330.40	0.04	388.42	121.72
6075.00	4.49	120.69	6058.13	-196.26	-205.20	332.10	0.26	390.38	121.71
6100.00	4.50	120.75	6083.06	-197.22	-206.20	333.78	0.04	392.34	121.71
6125.00	4.58	120.91	6107.98	-198.19	-207.22	335.48	0.33	394.32	121.70
6150.00	4.26	121.40	6132.90	-199.14	-208.21	337.13	1.30	396.24	121.70
6175.00	4.02	119.65	6157.84	-200.01	-209.13	338.68	1.07	398.05	121.69
6200.00	4.19	118.36	6182.77	-200.84	-210.00	340.25	0.77	399.83	121.68
6225.00	4.35	119.23	6207.71	-201.69	-210.89	341.88	0.70	401.69	121.67
6250.00	4.40	118.57	6232.63	-202.57	-211.82	343.55	0.29	403.60	121.66
6275.00	4.23	117.52	6257.56	-203.41	-212.70	345.21	0.74	405.48	121.64
6300.00	4.19	119.03	6282.49	-204.23	-213.57	346.83	0.47	407.31	121.62
6325.00	4.11	118.62	6307.43	-205.06	-214.44	348.41	0.35	409.12	121.61
6350.00	4.03	118.09	6332.36	-205.87	-215.29	349.97	0.36	410.89	121.60
6375.00	4.06	117.18	6357.30	-206.64	-216.10	351.54	0.28	412.65	121.58
6400.00	4.06	117.86	6382.24	-207.42	-216.92	353.10	0.19	414.41	121.56
6425.00	3.90	117.92	6407.18	-208.19	-217.73	354.64	0.64	416.14	121.55
6450.00	4.02	116.99	6432.12	-208.94	-218.53	356.17	0.53	417.86	121.53

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	3.90	120.50	6457.06	-209.73	-219.36	357.68	1.07	419.59	121.52
6500.00	3.80	118.07	6482.00	-210.51	-220.18	359.14	0.78	421.26	121.51
6525.00	3.95	118.37	6506.95	-211.27	-220.98	360.63	0.64	422.95	121.50
6550.00	3.70	118.95	6531.89	-212.03	-221.78	362.10	1.03	424.62	121.49
6575.00	3.48	121.54	6556.84	-212.78	-222.56	363.45	1.08	426.18	121.48
6600.00	3.33	118.47	6581.80	-213.49	-223.31	364.74	0.94	427.67	121.48
6625.00	3.30	118.07	6606.76	-214.14	-223.99	366.01	0.15	429.11	121.47
6650.00	2.41	125.11	6631.72	-214.75	-224.63	367.08	3.82	430.35	121.46
6675.00	1.83	126.08	6656.71	-215.27	-225.17	367.83	2.36	431.28	121.47
6700.00	1.81	126.77	6681.70	-215.72	-225.64	368.47	0.10	432.07	121.48
6725.00	1.63	128.28	6706.68	-216.16	-226.10	369.06	0.76	432.81	121.49
6750.00	1.06	148.38	6731.68	-216.57	-226.52	369.46	2.91	433.37	121.51
6775.00	0.67	145.16	6756.67	-216.88	-226.83	369.67	1.59	433.71	121.53
6800.00	0.70	142.40	6781.67	-217.12	-227.07	369.84	0.18	433.99	121.55
6825.00	0.76	157.37	6806.67	-217.39	-227.35	370.00	0.80	434.27	121.57
6850.00	0.55	165.11	6831.67	-217.66	-227.62	370.10	0.93	434.49	121.59
6875.00	0.55	142.42	6856.67	-217.86	-227.83	370.20	0.86	434.69	121.61
6900.00	0.71	159.93	6881.67	-218.10	-228.07	370.32	1.01	434.92	121.63
6925.00	0.59	166.50	6906.66	-218.37	-228.34	370.41	0.59	435.13	121.65
6950.00	0.57	149.22	6931.66	-218.60	-228.57	370.50	0.70	435.34	121.67
6975.00	0.75	155.38	6956.66	-218.85	-228.83	370.63	0.77	435.58	121.69
7000.00	0.54	167.99	6981.66	-219.11	-229.09	370.73	1.03	435.80	121.71
7025.00	0.53	150.04	7006.66	-219.33	-229.31	370.81	0.66	435.98	121.73
7050.00	0.72	150.34	7031.66	-219.56	-229.54	370.94	0.77	436.22	121.75
7075.00	0.60	168.14	7056.66	-219.82	-229.81	371.05	0.94	436.45	121.77
7100.00	0.52	154.73	7081.65	-220.05	-230.04	371.12	0.61	436.64	121.79
7125.00	0.70	160.10	7106.65	-220.29	-230.29	371.22	0.73	436.85	121.81
7150.00	0.51	164.94	7131.65	-220.54	-230.54	371.31	0.76	437.05	121.84
7175.00	0.60	150.86	7156.65	-220.76	-230.76	371.40	0.64	437.25	121.85
7200.00	0.76	167.12	7181.65	-221.03	-231.04	371.50	1.00	437.48	121.88
7225.00	0.53	154.08	7206.65	-221.30	-231.30	371.59	1.09	437.70	121.90
7250.00	0.65	154.03	7231.65	-221.53	-231.53	371.70	0.50	437.91	121.92

MD ft	INC deg	AZIM deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS %/100ft	CLOSURE DIST ft	CLOSURE DIR deg
7275.00	0.63	170.05	7256.64	-221.79	-231.80	371.79	0.72	438.13	121.94
7300.00	0.30	159.66	7281.64	-221.98	-231.99	371.83	1.34	438.27	121.96
7325.00	0.39	176.67	7306.64	-222.13	-232.14	371.86	0.54	438.37	121.98
7350.00	0.40	223.04	7331.64	-222.28	-232.29	371.81	1.24	438.40	122.00
7375.00	0.21	218.56	7356.64	-222.38	-232.39	371.72	0.74	438.38	122.01
7400.00	0.38	183.58	7381.64	-222.50	-232.50	371.68	0.94	438.41	122.03
7425.00	0.32	221.97	7406.64	-222.63	-232.64	371.63	0.94	438.44	122.05
7450.00	0.35	181.53	7431.64	-222.76	-232.77	371.58	0.94	438.47	122.06
7475.00	0.39	248.31	7456.64	-222.87	-232.87	371.50	1.64	438.46	122.08
7500.00	0.32	266.07	7481.64	-222.91	-232.91	371.35	0.52	438.35	122.10
7525.00	0.46	264.29	7506.64	-222.93	-232.93	371.18	0.54	438.21	122.11
7550.00	0.60	273.53	7531.64	-222.94	-232.93	370.95	0.67	438.02	122.13
7575.00	0.44	290.26	7556.64	-222.90	-232.89	370.73	0.88	437.81	122.14
7600.00	0.54	266.10	7581.64	-222.88	-232.86	370.52	0.92	437.62	122.15
7625.00	0.67	274.99	7606.64	-222.89	-232.86	370.26	0.63	437.39	122.17
7650.00	0.51	290.39	7631.63	-222.84	-232.80	370.01	0.88	437.15	122.18
7675.00	0.50	263.25	7656.63	-222.82	-232.78	369.79	0.95	436.96	122.19
7700.00	0.71	275.21	7681.63	-222.83	-232.78	369.53	0.98	436.74	122.21
7725.00	0.51	286.84	7706.63	-222.79	-232.73	369.27	0.93	436.49	122.22
7750.00	0.43	267.30	7731.63	-222.76	-232.70	369.07	0.72	436.31	122.23
7775.00	0.68	274.12	7756.63	-222.76	-232.70	368.83	1.04	436.10	122.25
7800.00	0.48	293.40	7781.63	-222.72	-232.64	368.58	1.12	435.86	122.26
7825.00	0.59	267.21	7806.63	-222.69	-232.61	368.36	1.06	435.66	122.27
7850.00	0.61	284.07	7831.62	-222.67	-232.58	368.10	0.70	435.42	122.29
7875.00	0.46	274.78	7856.62	-222.64	-232.54	367.88	0.68	435.21	122.30
7900.00	0.72	276.74	7881.62	-222.62	-232.52	367.62	1.05	434.98	122.31
7925.00	0.37	289.34	7906.62	-222.58	-232.47	367.39	1.48	434.76	122.32
7950.00	0.56	259.57	7931.62	-222.58	-232.47	367.19	1.20	434.59	122.34
7975.00	0.64	276.84	7956.62	-222.59	-232.47	366.93	0.79	434.38	122.36
8000.00	0.50	281.79	7981.62	-222.56	-232.43	366.69	0.61	434.15	122.37
8025.00	0.49	266.05	8006.62	-222.55	-232.42	366.48	0.54	433.96	122.38
8050.00	0.58	277.90	8031.62	-222.55	-232.41	366.25	0.55	433.76	122.40

MD ft	INC deg	AZIM deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS %/100ft	CLOSURE DIST ft	CLOSURE DIR deg
8075.00	0.37	264.47	8056.61	-222.54	-232.40	366.04	0.93	433.58	122.41
8100.00	0.54	261.96	8081.61	-222.57	-232.42	365.84	0.70	433.43	122.43
8125.00	0.45	284.92	8106.61	-222.57	-232.41	365.63	0.87	433.25	122.44
8150.00	0.49	255.93	8131.61	-222.57	-232.41	365.43	0.96	433.08	122.46
8175.00	0.55	276.66	8156.61	-222.59	-232.43	365.21	0.78	432.90	122.47
8200.00	0.32	271.71	8181.61	-222.58	-232.41	365.02	0.93	432.73	122.49
8225.00	0.57	263.45	8206.61	-222.60	-232.42	364.83	1.04	432.57	122.50
8250.00	0.44	281.98	8231.61	-222.60	-232.42	364.61	0.83	432.38	122.52
8275.00	0.52	261.01	8256.61	-222.60	-232.41	364.40	0.76	432.21	122.53
8300.00	0.42	283.11	8281.61	-222.60	-232.41	364.20	0.81	432.04	122.54
8325.00	0.43	255.87	8306.61	-222.61	-232.41	364.02	0.80	431.89	122.56
8350.00	0.46	282.10	8331.61	-222.62	-232.42	363.83	0.81	431.73	122.57
8375.00	0.33	251.32	8356.60	-222.63	-232.42	363.67	0.97	431.59	122.58
8400.00	0.47	271.32	8381.60	-222.65	-232.44	363.49	0.79	431.46	122.60
8425.00	0.26	263.02	8406.60	-222.66	-232.44	363.33	0.86	431.33	122.61
8450.00	0.40	266.76	8431.60	-222.68	-232.46	363.19	0.56	431.21	122.62
8475.00	0.19	269.78	8456.60	-222.68	-232.46	363.06	0.85	431.10	122.63
8500.00	0.31	245.87	8481.60	-222.71	-232.49	362.96	0.61	431.03	122.64
8525.00	0.30	278.59	8506.60	-222.73	-232.51	362.83	0.68	430.94	122.65
8550.00	0.16	223.13	8531.60	-222.75	-232.52	362.74	0.98	430.87	122.66
8575.00	0.36	252.15	8556.60	-222.81	-232.57	362.64	0.94	430.81	122.67
8600.00	0.20	275.97	8581.60	-222.83	-232.59	362.53	0.79	430.72	122.68
8625.00	0.22	216.59	8606.60	-222.86	-232.63	362.45	0.84	430.68	122.69
8650.00	0.31	275.44	8631.60	-222.90	-232.66	362.36	1.09	430.62	122.70
8675.00	0.16	183.61	8656.60	-222.93	-232.69	362.29	1.42	430.58	122.71
8700.00	0.30	245.92	8681.60	-222.99	-232.75	362.23	1.06	430.56	122.72
8725.00	0.07	197.93	8706.60	-223.04	-232.79	362.16	1.03	430.53	122.73
8750.00	0.24	216.65	8731.60	-223.09	-232.84	362.13	0.71	430.53	122.74
8775.00	0.11	243.56	8756.60	-223.15	-232.90	362.08	0.60	430.51	122.75
8800.00	0.30	209.37	8781.60	-223.22	-232.97	362.02	0.89	430.50	122.76
8825.00	0.24	248.69	8806.60	-223.30	-233.04	361.94	0.77	430.48	122.78
8850.00	0.04	193.81	8831.60	-223.32	-233.07	361.89	0.88	430.45	122.78

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	0.24	204.33	8856.60	-223.38	-233.13	361.87	0.80	430.46	122.79
8900.00	0.16	263.40	8881.60	-223.43	-233.18	361.81	0.84	430.44	122.80
8925.00	0.21	186.85	8906.60	-223.49	-233.23	361.77	0.95	430.43	122.81
8950.00	0.23	244.70	8931.60	-223.56	-233.30	361.72	0.87	430.42	122.82
8975.00	0.10	209.45	8956.60	-223.60	-233.34	361.66	0.66	430.40	122.83
9000.00	0.27	219.02	8981.60	-223.66	-233.40	361.61	0.71	430.39	122.84
9025.00	0.10	201.01	9006.60	-223.73	-233.47	361.56	0.74	430.39	122.85
9050.00	0.22	245.49	9031.60	-223.77	-233.51	361.51	0.65	430.37	122.86
9075.00	0.13	174.91	9056.60	-223.82	-233.56	361.47	0.86	430.36	122.87
9100.00	0.19	232.73	9081.60	-223.88	-233.61	361.44	0.67	430.37	122.88
9125.00	0.13	139.95	9106.60	-223.93	-233.66	361.43	0.96	430.38	122.88
9150.00	0.24	210.69	9131.60	-223.99	-233.73	361.42	0.94	430.41	122.89
9175.00	0.03	228.86	9156.60	-224.05	-233.78	361.39	0.87	430.41	122.90
9200.00	0.21	194.67	9181.60	-224.10	-233.83	361.37	0.76	430.42	122.91
9225.00	0.13	239.82	9206.60	-224.16	-233.89	361.33	0.61	430.42	122.91
9250.00	0.21	158.66	9231.60	-224.21	-233.94	361.32	0.90	430.45	122.92
9275.00	0.32	211.30	9256.60	-224.31	-234.04	361.30	1.00	430.48	122.93
9300.00	0.18	222.53	9281.60	-224.40	-234.13	361.24	0.59	430.48	122.95
9325.00	0.32	189.26	9306.60	-224.50	-234.23	361.21	0.78	430.50	122.96
9350.00	0.31	227.98	9331.60	-224.61	-234.34	361.15	0.83	430.51	122.98
9375.00	0.38	200.13	9356.60	-224.74	-234.46	361.07	0.71	430.51	123.00
9400.00	0.30	223.82	9381.60	-224.86	-234.58	360.99	0.64	430.52	123.02
9425.00	0.44	221.18	9406.60	-224.98	-234.70	360.89	0.59	430.49	123.04
9450.00	0.53	216.00	9431.60	-225.15	-234.87	360.75	0.38	430.47	123.07
9475.00	0.52	214.97	9456.59	-225.34	-235.06	360.62	0.05	430.46	123.10
9500.00	0.77	225.12	9481.59	-225.56	-235.27	360.44	1.08	430.43	123.13
9525.00	0.60	218.71	9506.59	-225.79	-235.49	360.24	0.75	430.38	123.17
9550.00	0.75	218.86	9531.59	-226.02	-235.72	360.05	0.61	430.35	123.21
9575.00	0.62	220.60	9556.59	-226.26	-235.95	359.86	0.55	430.32	123.25
9600.00	0.81	222.31	9581.59	-226.49	-236.18	359.66	0.78	430.27	123.29
9625.00	0.78	225.62	9606.58	-226.75	-236.43	359.42	0.22	430.21	123.34
9650.00	0.75	236.53	9631.58	-226.96	-236.64	359.16	0.59	430.11	123.38

MD ft	INC deg	AZIM deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS °/100ft	CLOSURE DIST ft	CLOSURE DIR deg
9675.00	0.90	231.00	9656.58	-227.19	-236.85	358.87	0.70	429.98	123.42
9700.00	1.00	240.74	9681.57	-227.43	-237.08	358.52	0.75	429.82	123.48
9725.00	0.87	235.75	9706.57	-227.65	-237.30	358.18	0.60	429.65	123.53
9750.00	1.05	239.87	9731.57	-227.88	-237.52	357.82	0.76	429.48	123.58
9775.00	1.00	250.67	9756.56	-228.08	-237.71	357.42	0.80	429.24	123.63
9800.00	1.21	246.01	9781.56	-228.27	-237.89	356.97	0.92	428.97	123.68
9825.00	1.12	251.46	9806.55	-228.47	-238.07	356.49	0.58	428.68	123.74
9850.00	1.20	254.05	9831.55	-228.63	-238.22	356.01	0.39	428.36	123.79
9875.00	1.19	268.68	9856.54	-228.72	-238.30	355.50	1.22	427.98	123.84
9900.00	1.24	267.21	9881.54	-228.76	-238.32	354.97	0.23	427.55	123.88
9925.00	1.33	270.89	9906.53	-228.78	-238.33	354.41	0.49	427.09	123.92
9950.00	1.33	273.35	9931.52	-228.78	-238.31	353.83	0.23	426.60	123.96
9975.00	1.26	272.38	9956.52	-228.76	-238.28	353.26	0.32	426.11	124.00
10000.00	1.29	275.43	9981.51	-228.74	-238.24	352.71	0.30	425.63	124.04
10025.00	1.27	272.64	10006.51	-228.71	-238.20	352.15	0.25	425.15	124.08
10050.00	1.33	269.83	10031.50	-228.72	-238.19	351.59	0.33	424.67	124.12
10075.00	1.29	275.63	10056.49	-228.71	-238.16	351.02	0.54	424.19	124.16
10100.00	1.27	276.95	10081.49	-228.66	-238.10	350.46	0.15	423.69	124.19
10125.00	1.40	278.30	10106.48	-228.60	-238.02	349.88	0.53	423.17	124.23
10150.00	1.24	280.52	10131.47	-228.52	-237.93	349.31	0.69	422.65	124.26
10175.00	1.43	270.16	10156.47	-228.49	-237.88	348.73	1.24	422.14	124.30
10200.00	1.45	281.22	10181.46	-228.44	-237.82	348.11	1.11	421.59	124.34
10225.00	1.53	272.68	10206.45	-228.38	-237.74	347.47	0.95	421.02	124.38
10250.00	1.41	281.71	10231.44	-228.32	-237.66	346.83	1.04	420.45	124.42
10275.00	1.46	272.12	10256.43	-228.26	-237.59	346.21	0.98	419.89	124.46
10300.00	1.39	282.37	10281.43	-228.20	-237.51	345.60	1.06	419.34	124.50
10325.00	1.19	270.48	10306.42	-228.15	-237.45	345.04	1.32	418.85	124.53
10350.00	1.24	275.69	10331.41	-228.13	-237.42	344.51	0.49	418.40	124.57
10375.00	1.11	287.64	10356.41	-228.05	-237.32	344.01	1.10	417.93	124.60
10400.00	0.93	274.81	10381.41	-227.97	-237.23	343.58	1.16	417.52	124.62
10425.00	1.31	285.67	10406.40	-227.89	-237.13	343.10	1.73	417.07	124.65
10450.00	0.97	283.16	10431.40	-227.77	-237.01	342.62	1.37	416.60	124.67

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	1.25	283.78	10456.39	-227.67	-236.89	342.15	1.10	416.15	124.70
10500.00	0.98	289.78	10481.39	-227.55	-236.76	341.68	1.17	415.69	124.72
10525.00	1.00	282.76	10506.38	-227.44	-236.63	341.27	0.49	415.28	124.74
10550.00	0.99	288.00	10531.38	-227.33	-236.52	340.85	0.37	414.87	124.76
10575.00	0.89	310.20	10556.38	-227.15	-236.33	340.49	1.51	414.47	124.76
10600.00	0.60	311.26	10581.37	-226.95	-236.12	340.25	1.15	414.15	124.76
10625.00	0.77	304.79	10606.37	-226.77	-235.94	340.01	0.75	413.85	124.76
10650.00	0.42	292.35	10631.37	-226.65	-235.80	339.79	1.47	413.59	124.76
10675.00	0.67	287.69	10656.37	-226.57	-235.73	339.57	0.99	413.37	124.77
10700.00	0.59	291.71	10681.37	-226.49	-235.63	339.31	0.34	413.10	124.78
10725.00	0.46	312.39	10706.37	-226.38	-235.52	339.11	0.91	412.87	124.78
10750.00	0.10	200.78	10731.37	-226.33	-235.47	339.03	2.04	412.78	124.78
10775.00	0.26	213.94	10756.37	-226.40	-235.54	338.99	0.64	412.79	124.79
10800.00	0.34	212.17	10781.37	-226.52	-235.65	338.92	0.34	412.79	124.81
10825.00	0.16	250.82	10806.37	-226.59	-235.72	338.85	0.96	412.77	124.83
10850.00	0.11	199.22	10831.37	-226.63	-235.76	338.80	0.51	412.76	124.83
10875.00	0.14	182.06	10856.37	-226.68	-235.81	338.80	0.19	412.78	124.84
10900.00	0.20	146.92	10881.37	-226.75	-235.88	338.82	0.46	412.84	124.84
10925.00	0.36	141.42	10906.36	-226.84	-235.97	338.89	0.64	412.95	124.85
10950.00	0.48	142.78	10931.36	-226.98	-236.12	339.00	0.50	413.13	124.86
10975.00	0.56	140.48	10956.36	-227.16	-236.30	339.14	0.32	413.34	124.87
11000.00	0.50	150.99	10981.36	-227.34	-236.48	339.27	0.45	413.56	124.88
11025.00	0.54	152.61	11006.36	-227.54	-236.69	339.38	0.18	413.76	124.89
11050.00	0.59	157.14	11031.36	-227.76	-236.91	339.49	0.27	413.98	124.91
11075.00	0.66	158.86	11056.36	-228.01	-237.16	339.59	0.27	414.21	124.93
11100.00	0.69	149.13	11081.36	-228.27	-237.43	339.72	0.47	414.46	124.95
11125.00	0.99	147.88	11106.35	-228.58	-237.74	339.91	1.20	414.80	124.97
11150.00	1.13	134.78	11131.35	-228.93	-238.10	340.20	1.13	415.24	124.99
11175.00	0.90	136.27	11156.35	-229.24	-238.41	340.51	0.93	415.68	125.00
11200.00	1.10	140.47	11181.34	-229.56	-238.74	340.80	0.84	416.10	125.01
11225.00	1.10	130.49	11206.34	-229.89	-239.08	341.13	0.76	416.57	125.02
11250.00	1.22	138.01	11231.33	-230.23	-239.43	341.49	0.79	417.07	125.04

MD ft	INC deg	AZIM deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS %/100ft	CLOSURE DIST ft	CLOSURE DIR deg
11275.00	1.20	138.54	11256.33	-230.61	-239.83	341.85	0.08	417.58	125.05
11300.00	1.27	136.98	11281.32	-231.00	-240.23	342.21	0.29	418.11	125.07
11325.00	1.25	129.92	11306.31	-231.37	-240.60	342.61	0.63	418.65	125.08
11350.00	1.46	132.71	11331.31	-231.75	-240.99	343.05	0.88	419.24	125.09
11375.00	1.27	132.07	11356.30	-232.14	-241.39	343.49	0.76	419.83	125.10
11400.00	1.04	119.89	11381.30	-232.42	-241.69	343.89	1.34	420.33	125.10
11425.00	0.84	82.38	11406.29	-232.50	-241.78	344.27	2.53	420.69	125.08
11450.00	0.99	67.83	11431.29	-232.39	-241.67	344.65	1.09	420.94	125.04
11475.00	1.04	70.46	11456.29	-232.22	-241.52	345.06	0.28	421.18	124.99
11500.00	1.09	72.83	11481.28	-232.06	-241.37	345.50	0.27	421.46	124.94
11525.00	1.13	71.00	11506.28	-231.90	-241.22	345.96	0.23	421.75	124.89
11550.00	1.24	74.69	11531.27	-231.73	-241.07	346.45	0.53	422.07	124.83
11575.00	1.27	82.05	11556.27	-231.61	-240.96	346.99	0.66	422.45	124.78
11600.00	1.15	81.75	11581.26	-231.52	-240.89	347.51	0.49	422.84	124.73