

COG

SURVEY REPORT

SQUARE BILL FEDERAL COM #022H

MCVAY #8

11/28/2017

HOT 25 0218

OCT 29 2018

RECEIVED

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

Kolton Cotton

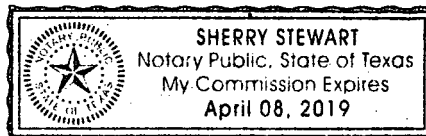
Notarized this date 9 of February, 2018.

Sherry Stewart

Notary Signature

County of Midland

State of Texas



Scientific Drilling

The Ultimate Partner In Wellbore Placement

CUSTOMER
PROJECT
FIELD

COG
Lea County, New Mexico
N/A

SDI JOB NO.
SDI DISTRICT
SDI KIT/UNIT

OP.006182
Midland

SITE INFORMATION

Site Name
Lat/Long
Northing
Easting

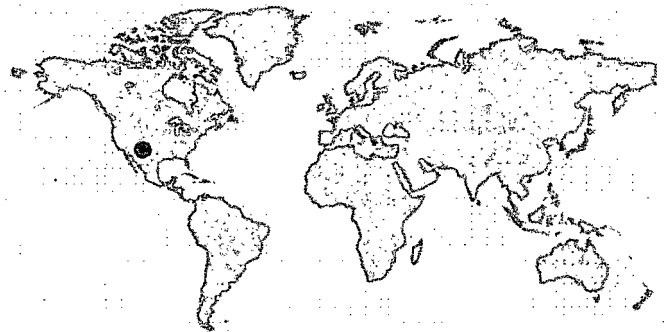
Lea County, New Mexico
32.0800776° N, 103.4008851° W
394,104.8 ft
788,841.2 ft

Section
Township
Range

MAP INFORMATION

North Reference
Grid Correction
System
Datum
Map Zone

Grid North
-0.50 deg
US State Plane 1927
North American Datum 1927 (Clarke 1866)
New Mexico East: 3001

**WELL INFORMATION**

Lat/Long
Northing
Easting
UWI

32.0800776° N, 103.4008851° W

30-025-44047

DEPTH AND ELEVATION REFERENCE

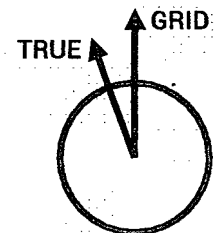
Ground Level
Reference Datum
Reference Height
Reference Elevation

3273 ft above Mean Sea Level
RKB
26 ft above G.L.
3299 ft

VERTICAL SECTION REFERENCE

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

0 ft
0 ft
359.44°
Minimum Curvature

**LOCAL GRAVITY REFERENCE INFORMATION**

Local Gravity
True to Grid

998.501 mG [computed]
subtract 0.5°

WELL NOTES

Keeper Gyro survey

OPERATORS

Jeffrey Loyd

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	0.95	353.62	100.00	0.83	0.82	-0.09	0.95	0.83	353.62
125.00	0.93	0.24	124.99	1.23	1.23	-0.11	0.44	1.24	354.70
150.00	1.03	357.10	149.99	1.66	1.66	-0.12	0.44	1.67	355.70
175.00	1.16	357.19	174.98	2.14	2.14	-0.15	0.55	2.14	356.02
200.00	1.09	0.55	199.98	2.63	2.63	-0.16	0.40	2.63	356.54
225.00	1.15	0.58	224.97	3.12	3.12	-0.15	0.23	3.12	357.17
250.00	1.24	357.46	249.97	3.64	3.64	-0.16	0.44	3.64	357.43
275.00	1.22	357.30	274.96	4.18	4.18	-0.19	0.05	4.18	357.42
300.00	1.20	5.29	299.96	4.70	4.70	-0.18	0.68	4.71	357.85
325.00	1.13	11.76	324.95	5.20	5.20	-0.10	0.58	5.21	358.87
350.00	1.30	0.08	349.95	5.73	5.73	-0.05	1.19	5.73	359.49
375.00	1.23	8.48	374.94	6.28	6.28	-0.01	0.80	6.28	359.90
400.00	1.20	11.56	399.93	6.80	6.80	0.08	0.28	6.80	0.68
425.00	1.11	8.46	424.93	7.30	7.30	0.17	0.43	7.30	1.32
450.00	1.07	9.25	449.93	7.77	7.77	0.24	0.17	7.77	1.79
475.00	0.96	15.26	474.92	8.20	8.20	0.34	0.62	8.21	2.34
500.00	0.95	19.96	499.92	8.60	8.60	0.46	0.32	8.61	3.07
525.00	0.92	19.91	524.91	8.98	8.98	0.60	0.13	9.00	3.82
550.00	0.89	19.97	549.91	9.35	9.35	0.73	0.09	9.38	4.49
575.00	0.76	23.86	574.91	9.68	9.69	0.87	0.56	9.73	5.12
600.00	0.70	21.86	599.91	9.97	9.98	0.99	0.28	10.03	5.68
625.00	0.64	29.38	624.91	10.24	10.25	1.12	0.42	10.31	6.23
650.00	0.61	36.21	649.90	10.46	10.48	1.27	0.33	10.55	6.89
675.00	0.70	42.86	674.90	10.68	10.70	1.45	0.48	10.79	7.71
700.00	0.73	44.80	699.90	10.90	10.92	1.66	0.15	11.05	8.66
725.00	0.80	45.67	724.90	11.13	11.15	1.90	0.29	11.31	9.66
750.00	0.72	37.34	749.90	11.38	11.40	2.12	0.54	11.60	10.53
775.00	0.67	43.28	774.89	11.61	11.63	2.31	0.35	11.86	11.25
800.00	0.59	42.58	799.89	11.81	11.83	2.50	0.32	12.09	11.94
825.00	0.63	50.91	824.89	11.99	12.02	2.70	0.39	12.31	12.65
850.00	0.70	50.86	849.89	12.17	12.20	2.92	0.26	12.54	13.47

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	0.65	47.66	874.89	12.36	12.39	3.15	0.23	12.78	14.25
900.00	0.54	47.66	899.89	12.53	12.57	3.34	0.44	13.00	14.88
925.00	0.45	59.57	924.89	12.66	12.70	3.51	0.56	13.17	15.46
950.00	0.30	62.06	949.88	12.74	12.78	3.65	0.61	13.29	15.96
975.00	0.28	72.76	974.88	12.79	12.83	3.77	0.22	13.37	16.38
1000.00	0.31	80.44	999.88	12.82	12.85	3.89	0.19	13.43	16.85
1025.00	0.31	87.88	1024.88	12.83	12.87	4.03	0.16	13.48	17.38
1050.00	0.27	92.23	1049.88	12.83	12.87	4.15	0.17	13.52	17.89
1075.00	0.23	81.18	1074.88	12.83	12.87	4.26	0.27	13.56	18.32
1100.00	0.16	110.89	1099.88	12.83	12.87	4.34	0.48	13.58	18.65
1125.00	0.11	129.87	1124.88	12.80	12.84	4.39	0.24	13.57	18.89
1150.00	0.23	129.51	1149.88	12.75	12.79	4.45	0.46	13.55	19.19
1175.00	0.30	127.20	1174.88	12.68	12.72	4.54	0.28	13.51	19.65
1200.00	0.27	112.55	1199.88	12.61	12.66	4.65	0.31	13.49	20.17
1225.00	0.22	109.15	1224.88	12.57	12.62	4.75	0.20	13.49	20.63
1250.00	0.14	117.84	1249.88	12.54	12.59	4.82	0.35	13.48	20.97
1275.00	0.20	145.36	1274.88	12.49	12.54	4.88	0.39	13.46	21.25
1300.00	0.17	146.19	1299.88	12.43	12.47	4.92	0.11	13.41	21.53
1325.00	0.29	129.54	1324.88	12.35	12.40	4.99	0.56	13.37	21.92
1350.00	0.25	120.94	1349.88	12.28	12.33	5.09	0.23	13.34	22.41
1375.00	0.25	136.06	1374.88	12.21	12.27	5.17	0.27	13.31	22.87
1400.00	0.12	134.25	1399.88	12.16	12.21	5.23	0.52	13.28	23.19
1425.00	0.17	175.96	1424.88	12.10	12.15	5.25	0.44	13.24	23.38
1450.00	0.23	146.01	1449.88	12.02	12.07	5.28	0.48	13.18	23.63
1475.00	0.23	130.09	1474.88	11.95	12.00	5.35	0.26	13.14	24.03
1500.00	0.10	149.54	1499.88	11.90	11.95	5.40	0.56	13.11	24.31
1525.00	0.17	134.26	1524.88	11.85	11.90	5.44	0.31	13.09	24.54
1550.00	0.18	160.52	1549.88	11.79	11.84	5.48	0.32	13.05	24.82
1575.00	0.25	155.93	1574.88	11.70	11.76	5.51	0.29	12.98	25.12
1600.00	0.17	152.69	1599.88	11.62	11.67	5.55	0.32	12.92	25.43
1625.00	0.25	133.73	1624.88	11.55	11.60	5.61	0.40	12.89	25.79
1650.00	0.11	161.44	1649.88	11.49	11.54	5.65	0.63	12.85	26.09

MD	INC	AZIM	TVD	VS	H/V/S	H/A/W	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	ft	%/100ft	ft	deg
1675.00	0.12	135.17	1674.88	11.45	11.50	5.68	0.21	12.83	26.28
1700.00	0.10	199.13	1699.88	11.41	11.46	5.69	0.47	12.80	26.40
1725.00	0.10	167.60	1724.88	11.36	11.42	5.69	0.22	12.76	26.47
1750.00	0.17	149.69	1749.88	11.31	11.37	5.71	0.34	12.72	26.67
1775.00	0.12	145.43	1774.88	11.26	11.31	5.74	0.20	12.69	26.92
1800.00	0.10	143.64	1799.88	11.22	11.27	5.77	0.08	12.67	27.12
1825.00	0.18	131.31	1824.88	11.17	11.23	5.82	0.31	12.65	27.38
1850.00	0.14	165.75	1849.88	11.12	11.17	5.85	0.40	12.61	27.64
1875.00	0.13	151.39	1874.88	11.06	11.12	5.87	0.14	12.57	27.85
1900.00	0.23	151.86	1899.88	10.99	11.05	5.91	0.40	12.53	28.15
1925.00	0.21	132.85	1924.88	10.91	10.97	5.97	0.31	12.49	28.55
1950.00	0.19	111.95	1949.88	10.86	10.92	6.04	0.30	12.48	28.95
1975.00	0.19	95.38	1974.88	10.84	10.90	6.12	0.22	12.51	29.32
2000.00	0.19	107.88	1999.88	10.83	10.89	6.20	0.17	12.53	29.68
2025.00	0.26	130.29	2024.88	10.78	10.84	6.29	0.45	12.53	30.11
2050.00	0.19	128.97	2049.88	10.71	10.78	6.36	0.28	12.51	30.55
2075.00	0.26	115.86	2074.88	10.66	10.73	6.44	0.34	12.51	30.99
2100.00	0.42	109.13	2099.88	10.61	10.67	6.58	0.66	12.54	31.65
2125.00	0.29	101.66	2124.88	10.56	10.63	6.73	0.54	12.58	32.33
2150.00	0.30	96.20	2149.88	10.54	10.61	6.85	0.12	12.63	32.86
2175.00	0.30	107.72	2174.88	10.51	10.58	6.98	0.24	12.68	33.41
2200.00	0.36	112.38	2199.88	10.46	10.53	7.11	0.26	12.71	34.03
2225.00	0.41	112.76	2224.87	10.40	10.47	7.27	0.24	12.74	34.77
2250.00	0.41	103.26	2249.87	10.34	10.41	7.44	0.27	12.80	35.54
2275.00	0.33	104.91	2274.87	10.30	10.37	7.60	0.34	12.86	36.21
2300.00	0.36	111.90	2299.87	10.25	10.33	7.74	0.22	12.90	36.84
2325.00	0.40	100.31	2324.87	10.20	10.28	7.90	0.35	12.96	37.53
2350.00	0.42	100.40	2349.87	10.17	10.25	8.07	0.05	13.05	38.22
2375.00	0.36	104.51	2374.87	10.13	10.21	8.24	0.26	13.12	38.88
2400.00	0.42	112.02	2399.87	10.08	10.16	8.40	0.32	13.18	39.57
2425.00	0.41	109.90	2424.87	10.01	10.10	8.56	0.08	13.24	40.30
2450.00	0.41	204.79	2449.87	9.90	9.99	8.61	2.39	13.18	40.77

MD	INC	AZIM	TVD	VS	+N/S	+E/W	DLS	CLOSURE	CLOSURE
ft	deg	deg	ft	ft	ft	ft	°/100ft	DIST	DIR
2475.00	0.70	222.11	2474.87	9.71	9.79	8.47	1.36	12.95	40.86
2500.00	0.74	214.33	2499.87	9.46	9.54	8.28	0.42	12.63	40.93
2525.00	0.76	211.97	2524.86	9.19	9.27	8.10	0.15	12.31	41.13
2550.00	0.76	213.23	2549.86	8.91	8.99	7.92	0.07	11.98	41.37
2575.00	0.75	217.66	2574.86	8.65	8.72	7.73	0.23	11.65	41.53
2600.00	0.81	215.62	2599.86	8.38	8.45	7.52	0.25	11.32	41.68
2625.00	0.81	207.50	2624.86	8.08	8.15	7.34	0.46	10.97	42.00
2650.00	0.75	206.07	2649.85	7.78	7.85	7.19	0.24	10.64	42.49
2675.00	0.68	203.88	2674.85	7.50	7.56	7.06	0.32	10.34	43.00
2700.00	0.78	193.50	2699.85	7.20	7.26	6.96	0.66	10.06	43.76
2725.00	0.70	195.60	2724.85	6.89	6.95	6.88	0.33	9.78	44.68
2750.00	0.59	182.77	2749.85	6.61	6.68	6.83	0.72	9.55	45.64
2775.00	0.63	167.36	2774.84	6.35	6.41	6.85	0.67	9.39	46.89
2800.00	0.55	163.64	2799.84	6.10	6.16	6.92	0.34	9.26	48.29
2825.00	0.52	172.52	2824.84	5.87	5.93	6.96	0.36	9.15	49.56
2850.00	0.61	170.07	2849.84	5.62	5.69	7.00	0.38	9.02	50.90
2875.00	0.67	162.46	2874.84	5.35	5.42	7.07	0.42	8.91	52.54
2900.00	0.63	150.90	2899.84	5.09	5.16	7.18	0.55	8.84	54.31
2925.00	0.67	152.71	2924.84	4.84	4.91	7.32	0.16	8.81	56.14
2950.00	0.62	148.63	2949.83	4.59	4.66	7.45	0.26	8.79	57.96
2975.00	0.68	152.05	2974.83	4.34	4.42	7.59	0.27	8.78	59.80
3000.00	0.69	151.63	2999.83	4.08	4.15	7.73	0.08	8.78	61.75
3025.00	0.74	145.32	3024.83	3.81	3.89	7.90	0.36	8.80	63.78
3050.00	0.70	141.01	3049.83	3.56	3.64	8.08	0.27	8.86	65.76
3075.00	0.68	142.39	3074.83	3.32	3.40	8.27	0.08	8.94	67.63
3100.00	0.80	158.55	3099.82	3.04	3.12	8.42	0.95	8.98	69.66
3125.00	0.96	186.18	3124.82	2.67	2.75	8.46	1.80	8.90	71.99
3150.00	0.97	180.97	3149.82	2.25	2.33	8.44	0.35	8.75	74.55
3175.00	0.93	189.85	3174.81	1.84	1.92	8.40	0.61	8.62	77.12
3200.00	1.06	186.02	3199.81	1.41	1.49	8.34	0.60	8.47	79.87
3225.00	1.02	184.75	3224.81	0.96	1.04	8.30	0.19	8.36	82.88
3250.00	1.01	181.96	3249.80	0.51	0.59	8.27	0.21	8.29	85.89

MD	INC	AZIM	TVD	VS	H/V/S	H/E/W	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	ft	%/100ft	ft	deg
3275.00	0.93	174.71	3274.80	0.09	0.17	8.28	0.58	8.29	88.81
3300.00	0.92	172.48	3299.79	-0.31	-0.23	8.33	0.15	8.33	91.58
3325.00	0.91	167.77	3324.79	-0.71	-0.62	8.40	0.30	8.42	94.25
3350.00	0.92	164.52	3349.79	-1.10	-1.01	8.49	0.21	8.55	96.80
3375.00	0.97	158.27	3374.78	-1.49	-1.40	8.62	0.47	8.74	99.23
3400.00	1.06	139.31	3399.78	-1.86	-1.77	8.85	1.38	9.03	101.33
3425.00	1.12	129.98	3424.78	-2.20	-2.11	9.19	0.76	9.43	102.91
3450.00	1.23	129.81	3449.77	-2.53	-2.44	9.59	0.42	9.89	104.25
3475.00	1.27	128.24	3474.77	-2.88	-2.78	10.01	0.20	10.39	105.51
3500.00	1.30	123.63	3499.76	-3.21	-3.11	10.46	0.44	10.91	106.53
3525.00	1.30	127.40	3524.75	-3.54	-3.43	10.92	0.34	11.45	107.46
3550.00	1.17	124.93	3549.75	-3.86	-3.75	11.36	0.54	11.96	108.28
3575.00	0.80	118.25	3574.74	-4.09	-3.98	11.72	1.56	12.38	108.76
3600.00	0.21	106.21	3599.74	-4.19	-4.08	11.92	2.36	12.59	108.88
3625.00	0.15	341.13	3624.74	-4.17	-4.06	11.95	1.29	12.62	108.76
3650.00	0.36	307.40	3649.74	-4.09	-3.98	11.88	0.99	12.52	108.52
3675.00	0.40	296.68	3674.74	-4.01	-3.89	11.74	0.34	12.36	108.35
3700.00	0.33	320.68	3699.74	-3.91	-3.80	11.61	0.67	12.22	108.10
3725.00	0.46	321.73	3724.74	-3.77	-3.66	11.50	0.49	12.07	107.66
3750.00	0.41	314.29	3749.74	-3.63	-3.52	11.38	0.29	11.91	107.19
3775.00	0.34	323.29	3774.74	-3.51	-3.40	11.27	0.35	11.77	106.78
3800.00	0.41	335.20	3799.74	-3.36	-3.26	11.19	0.42	11.65	106.23
3825.00	0.44	333.41	3824.74	-3.20	-3.09	11.10	0.11	11.53	105.54
3850.00	0.46	324.36	3849.74	-3.03	-2.92	11.00	0.30	11.38	104.87
3875.00	0.48	322.29	3874.74	-2.86	-2.76	10.88	0.09	11.22	104.22
3900.00	0.48	320.05	3899.73	-2.70	-2.59	10.75	0.08	11.06	103.56
3925.00	0.45	323.62	3924.73	-2.54	-2.43	10.62	0.19	10.90	102.90
3950.00	0.48	335.00	3949.73	-2.36	-2.26	10.52	0.40	10.76	102.12
3975.00	0.61	322.94	3974.73	-2.16	-2.06	10.40	0.69	10.60	101.20
4000.00	0.55	326.78	3999.73	-1.95	-1.85	10.25	0.30	10.42	100.24
4025.00	0.53	329.11	4024.73	-1.75	-1.65	10.13	0.11	10.26	99.26
4050.00	0.64	330.55	4049.73	-1.53	-1.43	10.00	0.42	10.10	98.15

MD	INC	AZIM	TVD	VS	+N/S	+E/W	DLS	CLOSURE	CLOSURE
ft	deg	deg	ft	ft	ft	ft	%/100ft	DIST	DIR
4075.00	0.63	324.16	4074.73	-1.30	-1.20	9.85	0.28	9.92	96.94
4100.00	0.55	321.46	4099.73	-1.09	-0.99	9.69	0.33	9.74	95.86
4125.00	0.60	324.80	4124.72	-0.89	-0.79	9.54	0.23	9.58	94.76
4150.00	0.65	330.34	4149.72	-0.66	-0.56	9.40	0.33	9.42	93.43
4175.00	0.67	326.63	4174.72	-0.41	-0.32	9.25	0.19	9.25	91.97
4200.00	0.62	321.08	4199.72	-0.18	-0.09	9.08	0.32	9.08	90.57
4225.00	0.56	329.53	4224.72	0.03	0.12	8.93	0.43	8.94	89.22
4250.00	0.59	334.28	4249.72	0.26	0.34	8.82	0.22	8.82	87.78
4275.00	0.65	333.34	4274.72	0.50	0.58	8.70	0.26	8.72	86.15
4300.00	0.67	328.43	4299.71	0.75	0.84	8.56	0.24	8.60	84.41
4325.00	0.61	325.33	4324.71	0.99	1.07	8.40	0.28	8.47	82.73
4350.00	0.55	329.32	4349.71	1.20	1.28	8.27	0.30	8.37	81.17
4375.00	0.64	343.18	4374.71	1.44	1.52	8.17	0.67	8.31	79.45
4400.00	0.60	335.68	4399.71	1.69	1.77	8.07	0.35	8.26	77.61
4425.00	0.58	326.47	4424.71	1.92	2.00	7.95	0.39	8.19	75.88
4450.00	0.60	335.81	4449.71	2.15	2.22	7.82	0.40	8.13	74.13
4475.00	0.39	4.19	4474.70	2.35	2.43	7.78	1.27	8.15	72.65
4500.00	0.47	25.40	4499.70	2.53	2.61	7.83	0.70	8.25	71.57
4525.00	0.48	23.10	4524.70	2.72	2.80	7.91	0.08	8.39	70.54
4550.00	0.45	43.37	4549.70	2.88	2.96	8.02	0.66	8.55	69.72
4575.00	0.49	52.17	4574.70	3.02	3.10	8.17	0.32	8.74	69.22
4600.00	0.66	63.84	4599.70	3.15	3.23	8.39	0.82	8.99	68.94
4625.00	0.58	73.27	4624.70	3.24	3.33	8.64	0.51	9.26	68.92
4650.00	0.65	73.60	4649.70	3.32	3.41	8.89	0.28	9.52	69.05
4675.00	0.87	71.63	4674.70	3.42	3.51	9.21	0.87	9.86	69.16
4700.00	0.92	74.90	4699.69	3.52	3.62	9.58	0.28	10.24	69.32
4725.00	0.86	85.90	4724.69	3.59	3.68	9.96	0.71	10.62	69.71
4750.00	1.04	80.93	4749.69	3.63	3.73	10.38	0.78	11.03	70.22
4775.00	1.13	83.37	4774.68	3.69	3.80	10.85	0.39	11.49	70.71
4800.00	1.11	86.13	4799.68	3.73	3.84	11.33	0.22	11.97	71.27
4825.00	1.21	109.19	4824.67	3.66	3.77	11.82	1.90	12.41	72.31
4850.00	1.97	134.95	4849.66	3.26	3.38	12.38	4.08	12.83	74.72

MD	INC	AZIM	TVD	VS	HVS	HE/W	DLS	CLOSURE	CLOSURE
ft	deg	deg	ft	ft	ft	ft	°/100ft	DIST	DIR
4875.00	2.49	135.95	4874.64	2.56	2.69	13.06	2.11	13.33	78.37
4900.00	2.61	136.34	4899.62	1.75	1.89	13.83	0.46	13.96	82.23
4925.00	2.54	138.43	4924.59	0.92	1.06	14.59	0.46	14.63	85.84
4950.00	2.73	136.65	4949.57	0.06	0.21	15.37	0.83	15.37	89.21
4975.00	2.68	136.12	4974.54	-0.80	-0.64	16.18	0.22	16.19	92.27
5000.00	2.87	134.95	4999.51	-1.67	-1.51	17.03	0.78	17.09	95.05
5025.00	2.98	134.31	5024.48	-2.58	-2.40	17.93	0.46	18.09	97.62
5050.00	3.00	133.67	5049.44	-3.49	-3.31	18.87	0.16	19.16	99.93
5075.00	2.87	134.92	5074.41	-4.39	-4.20	19.79	0.59	20.23	101.98
5100.00	2.70	133.25	5099.38	-5.25	-5.04	20.66	0.72	21.27	103.72
5125.00	2.54	130.33	5124.35	-6.02	-5.81	21.51	0.85	22.28	105.11
5150.00	2.45	131.74	5149.33	-6.74	-6.52	22.33	0.42	23.27	106.28
5175.00	2.43	131.46	5174.31	-7.45	-7.23	23.13	0.13	24.23	107.35
5200.00	2.32	140.44	5199.29	-8.20	-7.97	23.85	1.54	25.14	108.48
5225.00	2.25	150.62	5224.27	-9.03	-8.79	24.41	1.65	25.95	109.80
5250.00	2.15	158.10	5249.25	-9.89	-9.65	24.83	1.22	26.64	111.24
5275.00	2.12	158.27	5274.23	-10.76	-10.52	25.17	0.14	27.28	112.67
5300.00	2.02	158.28	5299.21	-11.60	-11.35	25.51	0.37	27.92	113.99
5325.00	2.02	161.51	5324.20	-12.43	-12.18	25.81	0.46	28.54	115.27
5350.00	2.04	160.11	5349.18	-13.27	-13.02	26.10	0.21	29.17	116.51
5375.00	1.86	160.13	5374.17	-14.08	-13.82	26.39	0.72	29.79	117.64
5400.00	1.51	152.45	5399.16	-14.75	-14.49	26.68	1.65	30.37	118.51
5425.00	1.41	157.93	5424.15	-15.34	-15.07	26.95	0.70	30.88	119.22
5450.00	1.45	154.79	5449.14	-15.91	-15.64	27.20	0.36	31.38	119.90
5475.00	1.52	160.04	5474.13	-16.51	-16.24	27.45	0.61	31.90	120.61
5500.00	1.57	173.24	5499.12	-17.17	-16.90	27.60	1.44	32.37	121.47
5525.00	1.82	184.99	5524.11	-17.90	-17.63	27.61	1.70	32.76	122.56
5550.00	1.87	185.96	5549.10	-18.70	-18.43	27.53	0.24	33.14	123.80
5575.00	1.88	187.86	5574.09	-19.52	-19.25	27.43	0.25	33.51	125.05
5600.00	1.96	187.93	5599.07	-20.34	-20.08	27.32	0.31	33.90	126.31
5625.00	1.88	188.28	5624.06	-21.17	-20.91	27.20	0.33	34.31	127.55
5650.00	1.93	189.35	5649.05	-21.99	-21.73	27.07	0.25	34.72	128.75

MD ft	INC deg	AZIM deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS %/100ft	CLOSURE DIST ft	CLOSURE DIR deg
5675.00	1.96	187.16	5674.03	-22.83	-22.57	26.95	0.32	35.15	129.94
5700.00	1.90	189.99	5699.02	-23.66	-23.40	26.83	0.46	35.60	131.10
5725.00	1.93	190.90	5724.00	-24.48	-24.22	26.68	0.18	36.03	132.24
5750.00	1.90	187.92	5748.99	-25.31	-25.05	26.54	0.42	36.49	133.35
5775.00	1.90	189.57	5773.97	-26.13	-25.87	26.41	0.22	36.97	134.40
5800.00	1.81	188.09	5798.96	-26.92	-26.67	26.29	0.40	37.45	135.41
5825.00	1.80	190.66	5823.95	-27.70	-27.45	26.16	0.33	37.92	136.37
5850.00	1.78	185.77	5848.94	-28.47	-28.22	26.05	0.61	38.40	137.29
5875.00	1.63	187.33	5873.93	-29.21	-28.96	25.96	0.64	38.89	138.12
5900.00	1.59	182.95	5898.92	-29.91	-29.65	25.90	0.52	39.37	138.87
5925.00	1.57	183.64	5923.91	-30.59	-30.34	25.86	0.10	39.87	139.56
5950.00	1.58	182.71	5948.90	-31.28	-31.03	25.82	0.10	40.37	140.23
5975.00	1.52	182.77	5973.89	-31.96	-31.71	25.79	0.22	40.87	140.87
6000.00	1.38	186.73	5998.88	-32.59	-32.34	25.74	0.71	41.33	141.48
6025.00	1.36	184.50	6023.87	-33.18	-32.93	25.68	0.22	41.76	142.05
6050.00	1.32	182.35	6048.87	-33.76	-33.52	25.65	0.26	42.20	142.58
6075.00	1.30	186.40	6073.86	-34.33	-34.08	25.60	0.38	42.63	143.09
6100.00	1.30	180.71	6098.85	-34.90	-34.65	25.57	0.52	43.06	143.58
6125.00	1.18	182.64	6123.85	-35.44	-35.19	25.55	0.53	43.49	144.02
6150.00	1.05	183.57	6148.84	-35.92	-35.68	25.53	0.52	43.87	144.42
6175.00	1.06	181.14	6173.84	-36.38	-36.13	25.51	0.18	44.23	144.78
6200.00	0.99	179.34	6198.83	-36.83	-36.58	25.50	0.31	44.59	145.12
6225.00	1.04	180.60	6223.83	-37.27	-37.02	25.50	0.23	44.96	145.44
6250.00	1.03	174.85	6248.83	-37.72	-37.48	25.52	0.42	45.34	145.74
6275.00	1.00	177.97	6273.82	-38.16	-37.92	25.55	0.26	45.72	146.03
6300.00	1.08	177.10	6298.82	-38.62	-38.37	25.57	0.33	46.11	146.32
6325.00	0.99	178.77	6323.81	-39.07	-38.82	25.59	0.37	46.49	146.61
6350.00	0.89	184.03	6348.81	-39.48	-39.23	25.58	0.54	46.83	146.90
6375.00	0.89	184.65	6373.81	-39.86	-39.61	25.55	0.04	47.14	147.18
6400.00	0.96	183.47	6398.80	-40.26	-40.02	25.52	0.30	47.46	147.47
6425.00	0.92	182.52	6423.80	-40.68	-40.43	25.50	0.17	47.80	147.76
6450.00	0.96	185.95	6448.80	-41.09	-40.84	25.47	0.28	48.13	148.05

MD	INC	AZIM	TVD	VS	NVS	EA/W	DLS	CLOSURE	CLOSURE
ft	deg	deg	ft	ft	ft	ft	%/100ft	DIST	DIR
6475.00	0.96	182.54	6473.79	-41.50	-41.26	25.44	0.23	48.47	148.34
6500.00	0.89	187.02	6498.79	-41.91	-41.66	25.40	0.40	48.79	148.63
6525.00	0.91	184.47	6523.79	-42.30	-42.05	25.36	0.17	49.11	148.90
6550.00	0.97	188.10	6548.78	-42.70	-42.46	25.32	0.34	49.43	149.19
6575.00	0.84	180.95	6573.78	-43.09	-42.85	25.29	0.69	49.75	149.45
6600.00	0.77	177.10	6598.78	-43.44	-43.20	25.29	0.35	50.06	149.65
6625.00	0.71	174.91	6623.78	-43.77	-43.52	25.31	0.25	50.35	149.82
6650.00	0.73	179.89	6648.78	-44.08	-43.84	25.33	0.26	50.63	149.98
6675.00	0.60	162.37	6673.77	-44.37	-44.12	25.37	0.95	50.89	150.10
6700.00	0.52	175.32	6698.77	-44.61	-44.36	25.42	0.62	51.13	150.19
6725.00	0.65	167.33	6723.77	-44.86	-44.61	25.46	0.62	51.36	150.29
6750.00	0.54	169.25	6748.77	-45.11	-44.86	25.51	0.45	51.61	150.38
6775.00	0.62	170.78	6773.77	-45.36	-45.11	25.55	0.32	51.85	150.47
6800.00	0.63	166.65	6798.77	-45.63	-45.38	25.61	0.19	52.10	150.56
6825.00	0.52	163.43	6823.77	-45.87	-45.62	25.67	0.46	52.35	150.63
6850.00	0.51	164.22	6848.76	-46.09	-45.84	25.74	0.05	52.57	150.69
6875.00	0.53	173.16	6873.76	-46.31	-46.06	25.78	0.33	52.79	150.77
6900.00	0.51	167.45	6898.76	-46.54	-46.29	25.82	0.22	53.00	150.85
6925.00	0.47	160.88	6923.76	-46.74	-46.49	25.88	0.28	53.21	150.90
6950.00	0.48	154.43	6948.76	-46.93	-46.68	25.95	0.22	53.41	150.93
6975.00	0.41	164.14	6973.76	-47.12	-46.86	26.02	0.41	53.60	150.96
7000.00	0.45	160.79	6998.76	-47.30	-47.04	26.08	0.20	53.79	151.00
7025.00	0.36	160.02	7023.76	-47.46	-47.21	26.14	0.38	53.96	151.03
7050.00	0.35	169.98	7048.76	-47.61	-47.36	26.18	0.25	54.11	151.07
7075.00	0.33	157.40	7073.76	-47.75	-47.50	26.22	0.31	54.26	151.10
7100.00	0.24	156.09	7098.76	-47.87	-47.61	26.27	0.38	54.38	151.11
7125.00	0.30	169.10	7123.76	-47.98	-47.72	26.30	0.35	54.49	151.14
7150.00	0.23	155.44	7148.76	-48.09	-47.83	26.34	0.39	54.60	151.16
7175.00	0.17	177.54	7173.76	-48.17	-47.92	26.36	0.37	54.69	151.19
7200.00	0.16	206.65	7198.76	-48.24	-47.99	26.34	0.34	54.74	151.23
7225.00	0.13	177.07	7223.76	-48.30	-48.04	26.33	0.32	54.79	151.28
7250.00	0.05	186.96	7248.76	-48.34	-48.08	26.33	0.30	54.82	151.30

MD ft	INC deg	AZIM deg	TVD ft	VS ft	+N/-S ft	HE/W ft	DLS %/100ft	CLOSURE DIST ft	CLOSURE DIR deg
7275.00	0.13	230.38	7273.76	-48.37	-48.11	26.31	0.38	54.83	151.33
7300.00	0.13	176.63	7298.76	-48.41	-48.16	26.29	0.46	54.86	151.37
7325.00	0.09	229.87	7323.76	-48.45	-48.20	26.27	0.41	54.89	151.40
7350.00	0.13	239.50	7348.76	-48.48	-48.22	26.23	0.20	54.90	151.45
7375.00	0.08	204.72	7373.76	-48.51	-48.25	26.20	0.33	54.91	151.50
7400.00	0.14	229.14	7398.76	-48.54	-48.29	26.17	0.32	54.93	151.54
7425.00	0.11	215.31	7423.76	-48.58	-48.33	26.13	0.17	54.94	151.60
7450.00	0.11	208.89	7448.76	-48.63	-48.37	26.11	0.05	54.97	151.64
7475.00	0.07	246.77	7473.76	-48.65	-48.40	26.08	0.29	54.98	151.68
7500.00	0.15	255.75	7498.76	-48.67	-48.41	26.04	0.35	54.97	151.73
7525.00	0.10	189.77	7523.76	-48.70	-48.44	26.00	0.59	54.98	151.78
7550.00	0.07	232.80	7548.76	-48.73	-48.48	25.98	0.28	55.00	151.81
7575.00	0.16	217.17	7573.76	-48.76	-48.51	25.95	0.37	55.02	151.86
7600.00	0.08	211.35	7598.76	-48.81	-48.56	25.92	0.31	55.04	151.91
7625.00	0.13	239.34	7623.76	-48.84	-48.59	25.89	0.26	55.05	151.95
7650.00	0.21	236.48	7648.76	-48.88	-48.63	25.82	0.32	55.06	152.03
7675.00	0.15	248.99	7673.76	-48.91	-48.66	25.76	0.26	55.06	152.11
7700.00	0.16	258.49	7698.76	-48.93	-48.68	25.69	0.11	55.04	152.18
7725.00	0.20	250.25	7723.76	-48.95	-48.70	25.61	0.19	55.03	152.26
7750.00	0.21	223.90	7748.76	-49.00	-48.75	25.54	0.37	55.04	152.35
7775.00	0.15	221.25	7773.76	-49.05	-48.81	25.49	0.21	55.06	152.43
7800.00	0.24	245.19	7798.75	-49.10	-48.86	25.42	0.47	55.07	152.51
7825.00	0.21	232.70	7823.75	-49.15	-48.91	25.33	0.23	55.08	152.61
7850.00	0.23	262.17	7848.75	-49.18	-48.94	25.25	0.46	55.07	152.71
7875.00	0.25	255.37	7873.75	-49.20	-48.96	25.14	0.13	55.04	152.82
7900.00	0.22	225.86	7898.75	-49.25	-49.01	25.06	0.49	55.04	152.92
7925.00	0.18	233.21	7923.75	-49.31	-49.06	24.99	0.20	55.06	153.01
7950.00	0.17	243.44	7948.75	-49.34	-49.10	24.93	0.13	55.07	153.08
7975.00	0.23	215.25	7973.75	-49.40	-49.16	24.87	0.46	55.09	153.17
8000.00	0.12	211.53	7998.75	-49.47	-49.23	24.82	0.43	55.13	153.24
8025.00	0.14	215.29	8023.75	-49.51	-49.27	24.79	0.08	55.16	153.29
8050.00	0.31	169.27	8048.75	-49.60	-49.36	24.79	0.93	55.24	153.34

MD ft	INC deg	AZIM deg	TVD ft	VS ft	N/S ft	E/W ft	DLS %/100ft	CLOSURE DIST ft	CLOSURE DIR deg
8075.00	0.52	150.05	8073.75	-49.77	-49.53	24.86	1.00	55.42	153.35
8100.00	0.58	159.92	8098.75	-49.99	-49.75	24.96	0.46	55.65	153.36
8125.00	0.62	145.18	8123.75	-50.22	-49.98	25.08	0.63	55.91	153.35
8150.00	0.58	148.28	8148.75	-50.44	-50.19	25.22	0.19	56.17	153.32
8175.00	0.55	156.00	8173.75	-50.66	-50.41	25.33	0.33	56.42	153.32
8200.00	0.65	151.50	8198.75	-50.89	-50.65	25.45	0.43	56.68	153.32
8225.00	0.69	144.54	8223.74	-51.14	-50.89	25.61	0.36	56.97	153.29
8250.00	0.61	143.08	8248.74	-51.37	-51.12	25.77	0.32	57.25	153.24
8275.00	0.62	156.19	8273.74	-51.60	-51.35	25.91	0.57	57.52	153.23
8300.00	0.72	144.01	8298.74	-51.86	-51.60	26.06	0.69	57.81	153.21
8325.00	0.65	145.57	8323.74	-52.10	-51.85	26.23	0.30	58.10	153.17
8350.00	0.63	149.15	8348.74	-52.34	-52.08	26.38	0.18	58.38	153.14
8375.00	0.64	148.58	8373.73	-52.58	-52.32	26.52	0.03	58.66	153.12
8400.00	0.60	142.61	8398.73	-52.80	-52.54	26.67	0.30	58.92	153.09
8425.00	0.62	156.70	8423.73	-53.03	-52.77	26.81	0.61	59.19	153.07
8450.00	1.02	175.24	8448.73	-53.38	-53.12	26.88	1.90	59.53	153.16
8475.00	1.12	171.24	8473.73	-53.84	-53.58	26.93	0.49	59.97	153.31
8500.00	1.10	172.39	8498.72	-54.32	-54.06	27.00	0.13	60.43	153.46
8525.00	1.24	173.38	8523.72	-54.83	-54.57	27.07	0.59	60.91	153.62
8550.00	1.12	177.72	8548.71	-55.34	-55.08	27.11	0.62	61.39	153.80
8575.00	1.14	181.31	8573.71	-55.84	-55.57	27.11	0.30	61.83	153.99
8600.00	1.06	178.04	8598.70	-56.32	-56.05	27.11	0.42	62.27	154.19
8625.00	0.98	200.33	8623.70	-56.75	-56.49	27.05	1.61	62.63	154.41
8650.00	1.19	207.73	8648.69	-57.18	-56.92	26.85	1.02	62.93	154.74
8675.00	1.23	206.47	8673.69	-57.64	-57.39	26.61	0.17	63.26	155.12
8700.00	1.20	207.71	8698.68	-58.11	-57.86	26.37	0.14	63.58	155.50
8725.00	1.13	214.36	8723.68	-58.55	-58.29	26.11	0.62	63.87	155.87
8750.00	1.22	214.90	8748.67	-58.96	-58.72	25.82	0.35	64.14	156.26
8775.00	1.21	214.74	8773.66	-59.40	-59.15	25.52	0.02	64.42	156.67
8800.00	1.12	215.12	8798.66	-59.81	-59.57	25.23	0.36	64.69	157.05
8825.00	1.11	221.42	8823.65	-60.19	-59.95	24.92	0.49	64.92	157.42
8850.00	1.09	219.37	8848.65	-60.55	-60.31	24.61	0.17	65.14	157.80

MD ft	INC deg	AZIM deg	TVD ft	VS ft	N/S ft	E/W ft	DLS %/100ft	CLOSURE DIST ft	CLOSURE DIR deg
8875.00	1.04	218.81	8873.65	-60.91	-60.68	24.32	0.21	65.37	158.16
8900.00	1.04	220.51	8898.64	-61.26	-61.02	24.03	0.12	65.59	158.51
8925.00	1.09	224.34	8923.64	-61.60	-61.37	23.72	0.34	65.79	158.87
8950.00	1.12	221.99	8948.63	-61.94	-61.72	23.39	0.21	66.00	159.25
8975.00	1.00	225.82	8973.63	-62.27	-62.05	23.07	0.55	66.20	159.61
9000.00	1.01	223.29	8998.62	-62.58	-62.36	22.76	0.18	66.39	159.95
9025.00	1.03	227.30	9023.62	-62.89	-62.67	22.45	0.29	66.57	160.29
9050.00	1.04	223.00	9048.62	-63.21	-62.99	22.13	0.32	66.77	160.64
9075.00	1.02	221.39	9073.61	-63.54	-63.33	21.83	0.15	66.98	160.98
9100.00	0.99	226.86	9098.61	-63.85	-63.64	21.52	0.41	67.18	161.32
9125.00	1.05	222.99	9123.61	-64.16	-63.95	21.21	0.36	67.38	161.65
9150.00	1.05	224.68	9148.60	-64.48	-64.28	20.89	0.13	67.59	162.00
9175.00	1.14	227.26	9173.60	-64.81	-64.62	20.55	0.41	67.80	162.36
9200.00	1.49	205.63	9198.59	-65.27	-65.08	20.22	2.39	68.15	162.74
9225.00	1.63	209.10	9223.58	-65.87	-65.68	19.91	0.70	68.63	163.14
9250.00	1.70	209.64	9248.57	-66.50	-66.31	19.55	0.29	69.14	163.57
9275.00	1.72	207.30	9273.56	-67.16	-66.97	19.20	0.29	69.67	164.01
9300.00	1.64	205.81	9298.55	-67.81	-67.63	18.87	0.39	70.21	164.41
9325.00	1.42	207.62	9323.54	-68.40	-68.22	18.57	0.90	70.71	164.77
9350.00	1.33	208.05	9348.53	-68.93	-68.75	18.29	0.35	71.15	165.10
9375.00	1.30	209.00	9373.53	-69.43	-69.26	18.02	0.16	71.56	165.42
9400.00	1.22	210.95	9398.52	-69.90	-69.73	17.74	0.36	71.96	165.73
9425.00	1.09	215.24	9423.51	-70.32	-70.16	17.47	0.63	72.30	166.02
9450.00	0.97	216.73	9448.51	-70.68	-70.52	17.21	0.48	72.59	166.29
9475.00	0.83	221.76	9473.51	-70.99	-70.82	16.96	0.64	72.83	166.53
9500.00	0.82	233.95	9498.50	-71.22	-71.06	16.69	0.70	73.00	166.78
9525.00	0.78	230.58	9523.50	-71.43	-71.28	16.42	0.23	73.14	167.03
9550.00	0.84	230.05	9548.50	-71.66	-71.50	16.14	0.24	73.30	167.28
9575.00	0.96	229.70	9573.50	-71.91	-71.76	15.84	0.47	73.48	167.55
9600.00	1.13	230.89	9598.49	-72.20	-72.05	15.49	0.70	73.69	167.86
9625.00	1.27	230.07	9623.49	-72.53	-72.38	15.09	0.56	73.94	168.22
9650.00	1.34	227.80	9648.48	-72.90	-72.76	14.66	0.36	74.22	168.61

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	1.78	219.72	9673.47	-73.39	-73.25	14.19	1.95	74.61	169.03
9700.00	1.92	220.34	9698.46	-74.00	-73.87	13.68	0.57	75.12	169.51
9725.00	1.96	219.29	9723.44	-74.64	-74.52	13.13	0.22	75.67	170.00
9750.00	2.05	218.63	9748.43	-75.32	-75.20	12.58	0.35	76.25	170.50
9775.00	2.02	216.91	9773.41	-76.01	-75.90	12.04	0.27	76.85	170.99
9800.00	2.02	220.20	9798.40	-76.70	-76.59	11.49	0.46	77.45	171.47
9825.00	2.07	220.65	9823.38	-77.37	-77.27	10.91	0.23	78.03	171.96
9850.00	2.06	224.92	9848.37	-78.02	-77.93	10.30	0.62	78.60	172.47
9875.00	2.07	224.64	9873.35	-78.66	-78.57	9.67	0.06	79.16	172.98
9900.00	2.08	226.12	9898.33	-79.29	-79.20	9.02	0.21	79.71	173.50
9925.00	2.07	227.50	9923.32	-79.90	-79.82	8.37	0.20	80.26	174.02
9950.00	2.18	227.30	9948.30	-80.52	-80.45	7.68	0.41	80.81	174.54
9975.00	2.09	225.75	9973.28	-81.15	-81.09	7.01	0.43	81.39	175.06
10000.00	2.09	227.06	9998.27	-81.77	-81.72	6.35	0.19	81.96	175.56
10025.00	2.13	227.36	10023.25	-82.39	-82.34	5.67	0.15	82.53	176.06
10050.00	2.18	226.21	10048.23	-83.03	-82.98	4.99	0.28	83.13	176.56
10075.00	2.18	227.29	10073.21	-83.67	-83.63	4.30	0.17	83.74	177.06
10100.00	2.12	229.72	10098.19	-84.29	-84.26	3.59	0.44	84.33	177.56
10125.00	2.26	229.64	10123.18	-84.90	-84.87	2.87	0.54	84.92	178.07
10150.00	2.26	229.16	10148.16	-85.53	-85.52	2.12	0.08	85.54	178.58
10175.00	2.19	229.60	10173.14	-86.16	-86.15	1.38	0.31	86.16	179.08
10200.00	2.22	230.55	10198.12	-86.77	-86.76	0.65	0.19	86.77	179.57
10225.00	2.07	229.78	10223.10	-87.36	-87.36	-0.07	0.59	87.36	180.05
10250.00	1.93	229.50	10248.09	-87.92	-87.93	-0.74	0.57	87.93	180.48
10275.00	1.82	227.50	10273.07	-88.45	-88.47	-1.35	0.50	88.48	180.88
10300.00	1.77	221.21	10298.06	-89.01	-89.03	-1.90	0.82	89.05	181.22
10325.00	1.78	226.70	10323.05	-89.56	-89.59	-2.44	0.68	89.62	181.56
10350.00	1.76	228.51	10348.04	-90.07	-90.11	-3.01	0.24	90.16	181.91
10375.00	1.73	228.48	10373.03	-90.57	-90.61	-3.58	0.12	90.68	182.26
10400.00	1.74	231.60	10398.01	-91.05	-91.10	-4.16	0.38	91.19	182.61
10425.00	1.68	232.84	10423.00	-91.51	-91.56	-4.75	0.30	91.68	182.97
10450.00	1.63	233.90	10447.99	-91.93	-91.99	-5.33	0.24	92.14	183.31

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	1.63	233.42	10472.98	-92.35	-92.41	-5.90	0.06	92.60	183.65
10500.00	1.68	232.46	10497.97	-92.78	-92.84	-6.48	0.23	93.07	183.99
10525.00	1.67	234.87	10522.96	-93.20	-93.28	-7.06	0.29	93.54	184.33
10550.00	1.71	238.10	10547.95	-93.60	-93.68	-7.68	0.42	94.00	184.69
10575.00	1.64	239.47	10572.94	-93.98	-94.06	-8.30	0.30	94.43	185.04
10600.00	1.57	239.53	10597.93	-94.33	-94.42	-8.91	0.29	94.84	185.39
10625.00	1.41	237.19	10622.92	-94.66	-94.76	-9.46	0.68	95.23	185.70
10650.00	1.26	240.19	10647.91	-94.96	-95.06	-9.96	0.66	95.58	185.98
10675.00	1.26	241.89	10672.91	-95.22	-95.33	-10.44	0.15	95.90	186.25
10700.00	1.18	240.68	10697.90	-95.47	-95.59	-10.91	0.37	96.21	186.51
10725.00	1.19	239.41	10722.90	-95.73	-95.84	-11.36	0.11	96.51	186.76
10750.00	1.21	243.28	10747.89	-95.97	-96.09	-11.82	0.34	96.82	187.01
10775.00	1.16	245.26	10772.89	-96.19	-96.32	-12.28	0.26	97.10	187.27
10800.00	1.12	245.11	10797.88	-96.40	-96.53	-12.73	0.16	97.36	187.52
10825.00	1.15	245.06	10822.88	-96.60	-96.74	-13.18	0.12	97.63	187.76
10850.00	1.09	241.53	10847.87	-96.82	-96.96	-13.62	0.38	97.91	188.00
10875.00	1.07	246.36	10872.87	-97.02	-97.16	-14.04	0.37	98.17	188.22
10900.00	1.02	240.25	10897.86	-97.22	-97.37	-14.45	0.48	98.43	188.44
10925.00	1.06	245.06	10922.86	-97.42	-97.57	-14.85	0.38	98.70	188.65
10950.00	0.97	239.54	10947.86	-97.62	-97.78	-15.24	0.52	98.96	188.86
10975.00	0.95	241.91	10972.85	-97.83	-97.98	-15.61	0.18	99.22	189.05
11000.00	0.76	242.17	10997.85	-98.00	-98.16	-15.94	0.74	99.44	189.22
11025.00	0.65	248.23	11022.85	-98.12	-98.29	-16.22	0.53	99.62	189.37
11050.00	0.52	239.43	11047.85	-98.23	-98.40	-16.45	0.64	99.76	189.49
11075.00	0.41	243.04	11072.85	-98.33	-98.50	-16.62	0.45	99.89	189.58
11100.00	0.34	237.79	11097.84	-98.41	-98.58	-16.76	0.32	99.99	189.65
11125.00	0.30	255.66	11122.84	-98.46	-98.63	-16.89	0.42	100.07	189.72
11150.00	0.36	232.25	11147.84	-98.52	-98.70	-17.01	0.60	100.15	189.78
11175.00	0.24	249.01	11172.84	-98.59	-98.76	-17.13	0.59	100.24	189.84
11200.00	0.37	232.27	11197.84	-98.66	-98.83	-17.24	0.61	100.32	189.89
11225.00	0.38	198.76	11222.84	-98.78	-98.96	-17.33	0.86	100.46	189.93
11250.00	0.36	202.39	11247.84	-98.93	-99.11	-17.39	0.11	100.62	189.95

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	0.31	189.42	11272.84	-99.07	-99.25	-17.43	0.37	100.77	189.96
11300.00	0.36	212.33	11297.84	-99.20	-99.38	-17.48	0.57	100.91	189.98
11325.00	0.44	192.97	11322.84	-99.36	-99.54	-17.54	0.62	101.07	190.00
11350.00	0.40	184.98	11347.84	-99.54	-99.72	-17.57	0.28	101.26	189.99
11375.00	0.36	195.77	11372.84	-99.71	-99.88	-17.60	0.32	101.42	189.99
11400.00	0.21	200.10	11397.84	-99.83	-100.00	-17.64	0.62	101.55	190.00
11425.00	0.09	210.20	11422.84	-99.88	-100.06	-17.66	0.50	101.61	190.01
11450.00	0.09	318.87	11447.84	-99.89	-100.06	-17.69	0.58	101.62	190.02
11475.00	0.20	353.04	11472.84	-99.83	-100.01	-17.71	0.53	101.56	190.04
11500.00	0.17	32.01	11497.84	-99.75	-99.93	-17.69	0.50	101.49	190.04
11525.00	0.23	95.17	11522.84	-99.73	-99.90	-17.62	0.86	101.45	190.00
11550.00	0.31	97.41	11547.84	-99.74	-99.92	-17.51	0.32	101.44	189.94
11575.00	0.41	95.57	11572.84	-99.76	-99.94	-17.35	0.43	101.43	189.85
11600.00	0.50	90.49	11597.84	-99.77	-99.94	-17.15	0.36	101.41	189.74
11625.00	0.83	112.01	11622.84	-99.84	-100.01	-16.88	1.63	101.43	189.58
11650.00	1.14	117.77	11647.83	-100.03	-100.20	-16.49	1.32	101.54	189.35
11669.09	1.48	122.94	11666.92	-100.26	-100.42	-16.12	1.87	101.70	189.12