

COG

SURVEY REPORT

DAISY 24 STATE COM #503H

SCAN FREEDOM

5/1/2019

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

JAKE ELGER

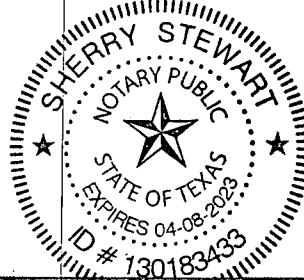
Notarized this date 07 of JUNE, 2019.

Sherry Stewart

Notary Signature

County of Midland

State of Texas



The Ultimate Partner In Wellbore Placement

SURVEY REPORT

DAISY 24 STATE COM #503H

KEEPER GYRO SURVEY

CUSTOMER
PROJECT
FIELD

COG
Daisy 24 State Com #503H
N/A

SDI JOB NO.
SDI DISTRICT
SDI KIT/UNIT

OP:018346
Midland

SITE INFORMATION

Site Name
Lat/Long
Northing
Easting

Daisy 24 State Com #503H
32.121932° N, 104.146017° W
408,084.8 ft
558,137.7 ft

Section
Township
Range

MAP INFORMATION

North Reference
Grid Correction
System
Datum
Map Zone

Grid North
-0.10 deg
US State Plane 1927
North American Datum 1927 (Clarke 1866)
New Mexico East: 3001



WELL INFORMATION

Lat/Long
Northing
Easting
UWI

32.121932° N, 104.146017° W

30-015-45747

DEPTH AND ELEVATION REFERENCE

Ground Level
Level
Reference Datum
Reference Height
Reference Elevation

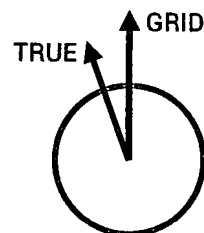
3057.2 ft above Mean Sea

RKB
27 ft above G.L.
3084.2 ft

VERTICAL SECTION REFERENCE

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

0 ft
0 ft
181.12°
Minimum Curvature



LOCAL GRAVITY REFERENCE INFORMATION

Local Gravity
True to Grid

998.525 mG [computed]
subtract 0.1°

WELL NOTES

Keeper Gyro Survey

OPERATORS

Troy Morgan

SDI Operator Name (Printed)

SIGNATURE

DATE

MD	INC	AZIM	TVD	VS	IN/AS	TE/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	0.98	35.18	100.00	-0.71	0.70	0.49	0.98	0.86	35.18
125.00	1.05	35.68	124.99	-1.07	1.06	0.75	0.27	1.30	35.26
150.00	1.11	31.31	149.99	-1.47	1.45	1.01	0.40	1.77	34.78
175.00	1.08	35.52	174.98	-1.87	1.85	1.27	0.33	2.24	34.48
200.00	1.10	34.19	199.98	-2.27	2.24	1.54	0.12	2.72	34.55
225.00	1.10	28.87	224.97	-2.68	2.65	1.79	0.41	3.20	34.10
250.00	1.12	21.50	249.97	-3.13	3.09	2.00	0.58	3.68	32.92
275.00	1.09	28.72	274.96	-3.57	3.52	2.20	0.58	4.15	32.01
300.00	1.11	29.06	299.96	-3.99	3.94	2.43	0.10	4.63	31.69
325.00	1.05	28.11	324.95	-4.41	4.36	2.66	0.24	5.10	31.40
350.00	1.07	30.39	349.95	-4.82	4.76	2.89	0.18	5.57	31.23
375.00	0.91	29.52	374.95	-5.20	5.14	3.10	0.63	6.00	31.14
400.00	0.77	33.32	399.94	-5.51	5.45	3.29	0.60	6.37	31.14
425.00	0.60	36.81	424.94	-5.76	5.70	3.46	0.72	6.67	31.31
450.00	0.53	29.14	449.94	-5.97	5.90	3.60	0.41	6.91	31.38
475.00	0.47	34.13	474.94	-6.16	6.09	3.71	0.30	7.13	31.38
500.00	0.40	16.89	499.94	-6.33	6.26	3.80	0.60	7.32	31.25
525.00	0.32	40.13	524.94	-6.47	6.39	3.87	0.65	7.47	31.17
550.00	0.16	72.04	549.94	-6.53	6.45	3.94	0.80	7.56	31.42
575.00	0.15	71.46	574.94	-6.55	6.48	4.01	0.02	7.62	31.76
600.00	0.12	55.24	599.94	-6.58	6.50	4.06	0.21	7.67	32.00
625.00	0.15	58.74	624.94	-6.61	6.53	4.11	0.13	7.72	32.18
650.00	0.26	25.64	649.94	-6.68	6.60	4.17	0.64	7.81	32.24
675.00	0.47	50.62	674.94	-6.80	6.72	4.27	1.01	7.96	32.43
700.00	0.51	50.51	699.94	-6.94	6.85	4.43	0.18	8.16	32.89
725.00	0.50	55.09	724.94	-7.08	6.99	4.61	0.17	8.37	33.40
750.00	0.50	40.54	749.93	-7.22	7.13	4.77	0.51	8.58	33.76
775.00	0.68	27.60	774.93	-7.44	7.35	4.91	0.89	8.84	33.74
800.00	0.80	18.01	799.93	-7.74	7.64	5.03	0.68	9.15	33.35
825.00	0.88	19.39	824.93	-8.09	7.99	5.15	0.35	9.50	32.79
850.00	0.96	14.29	849.93	-8.48	8.37	5.26	0.46	9.89	32.15

MD	INC	AZIM	TVD	VS	N/S	E/W	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	ft	%100ft	ft	deg
875.00	1.20	12.93	874.92	-8.94	8.83	5.37	0.97	10.34	31.31
900.00	1.26	6.89	899.92	-9.47	9.36	5.47	0.56	10.84	30.28
925.00	1.39	7.01	924.91	-10.04	9.93	5.54	0.53	11.37	29.13
950.00	1.43	3.16	949.90	-10.66	10.55	5.59	0.42	11.94	27.92
975.00	1.40	359.64	974.89	-11.27	11.16	5.60	0.38	12.49	26.66
1000.00	1.42	0.05	999.89	-11.89	11.78	5.60	0.12	13.04	25.44
1025.00	1.51	355.32	1024.88	-12.53	12.42	5.58	0.59	13.61	24.18
1050.00	1.28	331.55	1049.87	-13.10	12.99	5.42	2.47	14.08	22.63
1075.00	1.30	303.60	1074.86	-13.49	13.39	5.05	2.49	14.31	20.65
1100.00	1.45	292.14	1099.86	-13.76	13.67	4.52	1.26	14.40	18.29
1125.00	1.44	286.31	1124.85	-13.95	13.88	3.92	0.59	14.42	15.79
1150.00	1.57	286.41	1149.84	-14.12	14.06	3.29	0.48	14.44	13.18
1175.00	1.57	290.78	1174.83	-14.33	14.28	2.64	0.48	14.52	10.49
1200.00	1.35	286.54	1199.82	-14.52	14.49	2.04	0.97	14.63	8.02
1225.00	1.03	282.84	1224.82	-14.65	14.62	1.54	1.34	14.70	6.01
1250.00	0.70	285.12	1249.81	-14.73	14.71	1.17	1.33	14.76	4.56
1275.00	0.59	298.73	1274.81	-14.83	14.81	0.91	0.74	14.84	3.53
1300.00	0.53	293.90	1299.81	-14.93	14.92	0.69	0.30	14.94	2.66
1325.00	0.54	301.56	1324.81	-15.04	15.03	0.49	0.29	15.04	1.85
1350.00	0.70	306.84	1349.81	-15.19	15.18	0.26	0.66	15.19	1.00
1375.00	0.84	302.85	1374.81	-15.37	15.37	-0.01	0.61	15.37	359.96
1400.00	1.10	303.12	1399.80	-15.59	15.60	-0.37	1.05	15.61	358.66
1425.00	1.55	304.35	1424.80	-15.91	15.93	-0.85	1.78	15.95	356.96
1450.00	1.88	303.45	1449.79	-16.31	16.34	-1.47	1.36	16.41	354.87
1475.00	2.02	302.50	1474.77	-16.76	16.81	-2.18	0.56	16.95	352.60
1500.00	2.15	302.08	1499.75	-17.23	17.29	-2.95	0.51	17.54	350.32
1525.00	2.54	299.49	1524.73	-17.73	17.81	-3.83	1.62	18.22	347.87
1550.00	2.53	300.32	1549.71	-18.27	18.36	-4.79	0.15	18.98	345.39
1575.00	2.20	297.93	1574.69	-18.75	18.87	-5.69	1.38	19.70	343.23
1600.00	1.57	293.63	1599.67	-19.10	19.23	-6.42	2.58	20.27	341.53
1625.00	0.93	285.32	1624.67	-19.28	19.42	-6.93	2.62	20.62	340.36
1650.00	0.41	274.68	1649.67	-19.33	19.48	-7.22	2.13	20.77	339.67

IMD	INC	AZIM	TVD	VS	IN/S	HE/W	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	ft	%/100ft	ft	deg
1675.00	0.03	202.76	1674.67	-19.33	19.48	-7.31	1.62	20.81	339.43
1700:00	0.26	115.96	1699.67	-19.30	19.45	-7.26	1.05	20.76	339.53
1725:00	0.38	94.53	1724.67	-19.28	19.42	-7.13	0.67	20.68	339.84
1750:00	0.46	73.76	1749.67	-19.30	19.44	-6.95	0.67	20.64	340.33
1775:00	0.60	64.99	1774.66	-19.39	19.52	-6.73	0.66	20.65	340.97
1800:00	0.73	54.58	1799.66	-19.54	19.67	-6.49	0.69	20.71	341.75
1825.00	0.88	52.68	1824.66	-19.75	19.88	-6.21	0.61	20.82	342.66
1850.00	0.95	46.23	1849.66	-20.02	20.14	-5.90	0.49	20.98	343.66
1875.00	1.03	49.46	1874.65	-20.31	20.43	-5.58	0.41	21.17	344.71
1900.00	1.12	54.25	1899.65	-20.61	20.71	-5.21	0.50	21.36	345.87
1925.00	1.31	61.02	1924.64	-20.90	21.00	-4.77	0.96	21.53	347.21
1950:00	1.51	64.29	1949.64	-21.19	21.28	-4.22	0.85	21.69	348.79
1975:00	1.79	71.28	1974.63	-21.47	21.55	-3.55	1.40	21.84	350.64
2000:00	2.12	72.67	1999.61	-21.75	21.81	-2.74	1.32	21.98	352.84
2025:00	2.27	76.70	2024.59	-22.02	22.06	-1.82	0.84	22.14	355.29
2050:00	2.36	88.25	2049.57	-22.17	22.19	-0.82	1.90	22.21	357.88
2075.00	2.50	97.77	2074.55	-22.13	22.13	0.23	1.71	22.13	0.60
2100.00	2.53	100.55	2099.53	-21.98	21.96	1.32	0.51	22.00	3.43
2125.00	2.60	101.83	2124.50	-21.78	21.74	2.41	0.36	21.87	6.33
2150.00	2.67	102.01	2149.47	-21.57	21.50	3.54	0.29	21.79	9.35
2175.00	2.66	101.58	2174.45	-21.35	21.26	4.68	0.10	21.77	12.41
2200:00	2.76	100.45	2199.42	-21.15	21.04	5.84	0.46	21.83	15.51
2225:00	2.72	99.59	2224.39	-20.96	20.83	7.01	0.22	21.98	18.61
2250:00	2.73	100.83	2249.36	-20.78	20.62	8.19	0.24	22.19	21.65
2275:00	2.70	99.25	2274.33	-20.59	20.41	9.35	0.33	22.45	24.61
2300:00	2.62	98.28	2299.31	-20.44	20.24	10.50	0.38	22.80	27.42
2325.00	2.65	98.31	2324.28	-20.30	20.07	11.63	0.15	23.20	30.10
2350.00	2.56	97.69	2349.25	-20.16	19.91	12.76	0.38	23.65	32.65
2375.00	2.55	97.67	2374.23	-20.03	19.76	13.87	0.04	24.14	35.05
2400.00	2.52	96.65	2399.21	-19.91	19.63	14.96	0.21	24.68	37.32
2425.00	2.55	97.90	2424.18	-19.80	19.49	16.06	0.25	25.25	39.50
2450:00	2.59	98.10	2449.16	-19.66	19.33	17.17	0.17	25.86	41.62

MD	INC	AZIM	TVD	VS	N/S	E/W	DLS	CLOSURE	CLOSURE
ft	deg	deg	ft	ft	ft	ft	%/100ft	DIST	DIR
2475.00	2.48	97.24	2474.13	-19.54	19.18	18.27	0.47	26.49	43.60
2500.00	2.12	96.93	2499.11	-19.43	19.06	19.26	1.46	27.10	45.31
2525.00	1.29	107.73	2524.10	-19.30	18.92	19.99	3.54	27.52	46.58
2550.00	0.72	123.73	2549.10	-19.14	18.74	20.39	2.49	27.69	47.41
2575.00	0.45	140.59	2574.09	-18.98	18.58	20.58	1.29	27.73	47.93
2600.00	0.20	224.13	2599.09	-18.87	18.47	20.61	1.88	27.68	48.13
2625.00	0.66	294.02	2624.09	-18.90	18.50	20.45	2.49	27.58	47.87
2650.00	1.01	297.02	2649.09	-19.05	18.66	20.12	1.39	27.44	47.16
2675.00	1.04	293.33	2674.09	-19.23	18.85	19.72	0.29	27.28	46.30
2700.00	0.92	292.65	2699.08	-19.39	19.02	19.33	0.47	27.11	45.47
2725.00	1.00	292.03	2724.08	-19.54	19.18	18.94	0.33	26.95	44.65
2750.00	1.04	293.46	2749.08	-19.71	19.35	18.53	0.19	26.79	43.76
2775.00	1.03	292.57	2774.07	-19.88	19.52	18.11	0.09	26.63	42.85
2800.00	1.00	291.52	2799.07	-20.03	19.69	17.70	0.13	26.48	41.96
2825.00	1.14	288.91	2824.06	-20.19	19.85	17.26	0.59	26.31	41.01
2850.00	0.99	287.83	2849.06	-20.32	20.00	16.82	0.60	26.13	40.07
2875.00	1.05	285.25	2874.06	-20.44	20.12	16.40	0.28	25.96	39.17
2900.00	1.20	282.20	2899.05	-20.55	20.24	15.92	0.66	25.75	38.19
2925.00	1.14	289.72	2924.05	-20.68	20.38	15.43	0.66	25.56	37.14
2950.00	1.13	287.86	2949.04	-20.83	20.54	14.96	0.15	25.41	36.08
2975.00	1.10	284.23	2974.04	-20.95	20.67	14.50	0.31	25.25	35.04
3000.00	1.15	284.66	2999.03	-21.07	20.80	14.02	0.19	25.08	33.99
3025.00	1.12	283.28	3024.03	-21.18	20.92	13.54	0.15	24.92	32.92
3050.00	1.05	277.34	3049.02	-21.25	21.00	13.08	0.54	24.74	31.91
3075.00	1.10	283.47	3074.02	-21.33	21.09	12.62	0.51	24.57	30.89
3100.00	1.11	279.27	3099.01	-21.41	21.18	12.14	0.33	24.41	29.83
3125.00	1.12	275.16	3124.01	-21.47	21.24	11.66	0.32	24.23	28.76
3150.00	1.20	277.18	3149.00	-21.51	21.30	11.16	0.38	24.04	27.65
3175.00	2.07	285.16	3173.99	-21.65	21.45	10.46	3.59	23.86	26.00
3200.00	2.75	287.66	3198.97	-21.93	21.75	9.45	2.74	23.71	23.49
3225.00	2.96	288.31	3223.94	-22.29	22.13	8.27	0.87	23.63	20.49
3250.00	2.94	286.90	3248.91	-22.65	22.52	7.04	0.31	23.60	17.36

MD	INC	AZIM	TVD	VS	N/S	E/W	DLS	CLOSURE	CLOSURE
ft	deg	deg	ft	ft	ft	ft	/100ft	DIST	DIR
3275.00	2.90	288.10	3273.87	-23.01	22.90	5.83	0.30	23.63	14.28
3300.00	3.06	288.25	3298.84	-23.39	23.31	4.60	0.65	23.76	17.15
3325.00	3.04	288.18	3323.80	-23.79	23.72	3.33	0.06	23.96	7.99
3350.00	3.07	287.53	3348.77	-24.17	24.13	2.06	0.17	24.22	4.88
3375.00	3.02	287.77	3373.73	-24.55	24.54	0.80	0.22	24.55	1.86
3400.00	3.02	286.48	3398.70	-24.91	24.92	-0.46	0.27	24.93	358.94
3425.00	3.07	287.64	3423.66	-25.27	25.31	-1.73	0.33	25.37	356.09
3450.00	3.02	287.65	3448.63	-25.65	25.72	-2.99	0.19	25.89	353.36
3475.00	3.26	289.32	3473.59	-26.06	26.15	-4.29	1.01	26.50	350.68
3500.00	3.16	288.03	3498.55	-26.48	26.60	-5.62	0.50	27.19	348.07
3525.00	3.03	288.21	3523.51	-26.88	27.02	-6.90	0.51	27.89	345.67
3550.00	3.05	286.55	3548.48	-27.25	27.41	-8.17	0.36	28.60	343.41
3575.00	3.05	288.12	3573.44	-27.62	27.81	-9.43	0.33	29.37	341.26
3600.00	2.87	283.61	3598.41	-27.95	28.17	-10.68	1.17	30.12	339.24
3625.00	2.98	284.09	3623.38	-28.23	28.47	-11.92	0.45	30.86	337.29
3650.00	2.99	285.03	3648.34	-28.54	28.80	-13.18	0.20	31.67	335.41
3675.00	3.03	284.60	3673.31	-28.85	29.13	-14.45	0.16	32.52	333.63
3700.00	2.82	284.35	3698.28	-29.14	29.45	-15.68	0.82	33.37	331.97
3725.00	2.78	282.36	3723.25	-29.40	29.74	-16.87	0.42	34.19	330.43
3750.00	2.49	276.86	3748.22	-29.57	29.93	-18.00	1.55	34.93	328.98
3775.00	2.81	278.71	3773.19	-29.71	30.09	-19.14	1.36	35.66	327.53
3800.00	2.69	278.48	3798.17	-29.86	30.27	-20.33	0.52	36.46	326.11
3825.00	2.65	277.12	3823.14	-30.00	30.42	-21.48	0.30	37.24	324.77
3850.00	2.69	276.68	3848.11	-30.12	30.56	-22.64	0.18	38.03	323.48
3875.00	2.43	276.88	3873.09	-30.23	30.70	-23.74	1.04	38.81	322.28
3900.00	2.43	274.85	3898.06	-30.31	30.80	-24.80	0.34	39.54	321.17
3925.00	2.51	274.83	3923.04	-30.38	30.89	-25.87	0.31	40.30	320.06
3950.00	2.46	272.47	3948.02	-30.43	30.96	-26.95	0.46	41.05	318.97
3975.00	2.51	272.60	3972.99	-30.46	31.01	-28.03	0.24	41.80	317.89
4000.00	2.40	271.07	3997.97	-30.47	31.05	-29.10	0.52	42.55	316.85
4025.00	2.43	271.62	4022.95	-30.48	31.07	-30.16	0.15	43.30	315.86
4050.00	2.41	269.74	4047.93	-30.47	31.08	-31.21	0.33	44.05	314.88

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	2.42	270.92	4072.90	-30.45	31.09	-32.27	0.20	44.81	313.94
4100.00	2.40	271.08	4097.88	-30.45	31.11	-33.32	0.07	45.58	313.04
4125.00	2.52	271.29	4122.86	-30.45	31.13	-34.39	0.48	46.39	312.15
4150.00	2.53	271.47	4147.83	-30.46	31.16	-35.49	0.04	47.23	311.28
4175.00	2.53	271.36	4172.81	-30.46	31.18	-36.59	0.02	48.08	310.44
4200.00	3.01	276.58	4197.78	-30.53	31.27	-37.80	2.18	49.06	309.60
4225.00	3.85	283.43	4222.74	-30.77	31.54	-39.27	3.72	50.37	308.78
4250.00	4.06	284.99	4247.68	-31.16	31.97	-40.94	0.94	51.94	307.99
4275.00	4.13	285.43	4272.61	-31.59	32.43	-42.66	0.33	53.59	307.25
4300.00	4.04	285.95	4297.55	-32.04	32.92	-44.37	0.40	55.25	306.57
4325.00	4.11	285.87	4322.49	-32.50	33.40	-46.08	0.26	56.92	305.94
4350.00	4.30	281.78	4347.42	-32.90	33.84	-47.86	1.42	58.61	305.26
4375.00	4.03	283.45	4372.35	-33.26	34.24	-49.63	1.16	60.29	304.60
4400.00	3.88	283.74	4397.29	-33.63	34.64	-51.31	0.63	61.91	304.03
4425.00	3.85	282.15	4422.24	-33.98	35.02	-52.95	0.44	63.48	303.48
4450.00	3.61	282.95	4447.18	-34.30	35.37	-54.54	0.98	65.00	302.97
4475.00	3.54	282.54	4472.13	-34.61	35.72	-56.06	0.31	66.47	302.50
4500.00	3.29	282.00	4497.09	-34.90	36.03	-57.51	1.01	67.87	302.07
4525.00	3.29	282.25	4522.05	-35.17	36.33	-58.92	0.06	69.22	301.66
4550.00	3.37	280.27	4547.01	-35.43	36.62	-60.34	0.56	70.58	301.25
4575.00	3.27	279.31	4571.97	-35.65	36.86	-61.77	0.47	71.93	300.83
4600.00	3.20	279.67	4596.93	-35.85	37.10	-63.16	0.28	73.25	300.43
4625.00	3.21	278.60	4621.89	-36.05	37.32	-64.54	0.24	74.55	300.04
4650.00	3.05	278.28	4646.85	-36.22	37.52	-65.89	0.64	75.82	299.66
4675.00	2.94	278.69	4671.81	-36.39	37.71	-67.18	0.45	77.04	299.31
4700.00	2.90	277.97	4696.78	-36.55	37.89	-68.44	0.23	78.23	298.97
4725.00	2.58	277.81	4721.75	-36.69	38.06	-69.62	1.27	79.35	298.66
4750.00	2.42	280.19	4746.73	-36.84	38.23	-70.70	0.75	80.37	298.40
4775.00	2.05	290.98	4771.71	-37.07	38.48	-71.64	2.23	81.32	298.24
4800.00	1.84	300.10	4796.70	-37.42	38.84	-72.40	1.50	82.16	298.21
4825.00	1.82	305.38	4821.68	-37.84	39.28	-73.07	0.68	82.96	298.26
4850.00	2.04	305.23	4846.67	-38.31	39.76	-73.76	0.89	83.80	298.33

MD	INC	AZIM	TWD	VS	N/S	E/W	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	ft	%/100ft	ft	deg
4875.00	3.22	317.45	4871.64	-39.07	40.54	-74.60	5.17	84.90	298.52
4900.00	4.01	323.52	4896.59	-40.27	41.76	-75.60	3.52	86.36	298.91
4925.00	4.17	324.12	4921.53	-41.69	43.20	-76.65	0.65	87.98	299.40
4950.00	4.22	325.42	4946.46	-43.16	44.69	-77.70	0.44	89.64	299.90
4975.00	4.19	325.49	4971.40	-44.65	46.20	-78.74	0.14	91.30	300.40
5000.00	4.14	325.93	4996.33	-46.13	47.70	-79.77	0.25	92.94	300.88
5025.00	4.12	326.54	5021.26	-47.61	49.19	-80.77	0.19	94.57	301.35
5050.00	4.14	325.08	5046.20	-49.08	50.68	-81.78	0.43	96.21	301.79
5075.00	4.16	326.06	5071.13	-50.55	52.18	-82.80	0.30	97.87	302.22
5100.00	4.15	325.84	5096.07	-52.03	53.68	-83.82	0.10	99.53	302.64
5125.00	4.08	326.44	5121.00	-53.50	55.17	-84.81	0.32	101.18	303.04
5150.00	4.07	327.11	5145.94	-54.97	56.65	-85.79	0.19	102.81	303.44
5175.00	4.09	326.62	5170.88	-56.44	58.14	-86.76	0.14	104.44	303.83
5200.00	4.04	326.86	5195.81	-57.90	59.62	-87.73	0.18	106.07	304.20
5225.00	4.08	325.90	5220.75	-59.35	61.10	-88.71	0.32	107.72	304.56
5250.00	4.05	325.92	5245.69	-60.80	62.57	-89.71	0.12	109.37	304.89
5275.00	4.08	324.95	5270.63	-62.24	64.03	-90.71	0.29	111.03	305.22
5300.00	4.05	323.09	5295.56	-63.65	65.46	-91.75	0.54	112.71	305.51
5325.00	4.01	322.33	5320.50	-65.03	66.86	-92.82	0.26	114.39	305.77
5350.00	3.98	324.98	5345.44	-66.41	68.26	-93.85	0.75	116.05	306.03
5375.00	3.93	321.81	5370.38	-67.78	69.65	-94.88	0.90	117.70	306.28
5400.00	3.90	322.60	5395.32	-69.11	70.99	-95.92	0.24	119.34	306.51
5425.00	3.84	322.89	5420.27	-70.43	72.34	-96.94	0.27	120.96	306.73
5450.00	3.83	319.96	5445.21	-71.71	73.64	-97.99	0.79	122.58	306.93
5475.00	3.69	320.00	5470.16	-72.95	74.90	-99.04	0.57	124.17	307.10
5500.00	4.02	310.78	5495.10	-74.11	76.09	-100.22	2.81	125.83	307.21
5525.00	4.08	307.83	5520.04	-75.20	77.20	-101.59	0.87	127.59	307.23
5550.00	4.47	302.66	5544.97	-76.25	78.28	-103.11	2.18	129.45	307.20
5575.00	4.56	301.17	5569.89	-77.25	79.32	-104.78	0.60	131.41	307.12
5600.00	4.68	299.51	5594.81	-78.24	80.33	-106.52	0.72	133.41	307.02
5625.00	4.64	299.66	5619.73	-79.20	81.34	-108.28	0.16	135.43	306.91
5650.00	4.66	299.48	5644.64	-80.17	82.34	-110.05	0.08	137.44	306.80

MD	INC	AZIM	TVD	VS	N/S	HEAW	DLS	CLOSURE	CLOSURE
ft	deg	deg	ft	ft	ft	ft	%/100ft	DIST	DIR
5675.00	4.65	298.20	5669.56	-81.11	83.31	-111.83	0.42	139.45	306.69
5700.00	4.55	298.76	5694.48	-82.03	84.27	-113.59	0.44	141.43	306.57
5725.00	4.62	296.97	5719.40	-82.93	85.20	-115.35	0.63	143.41	306.45
5750.00	4.49	298.53	5744.32	-83.82	86.13	-117.11	0.72	145.37	306.33
5775.00	4.37	298.37	5769.25	-84.71	87.05	-118.81	0.46	147.28	306.23
5800.00	4.29	296.78	5794.18	-85.55	87.92	-120.48	0.58	149.15	306.12
5825.00	4.17	297.55	5819.11	-86.36	88.76	-122.12	0.54	150.97	306.01
5850.00	4.10	296.72	5844.04	-87.15	89.59	-123.73	0.36	152.75	305.91
5875.00	4.06	297.22	5868.98	-87.93	90.39	-125.31	0.21	154.51	305.80
5900.00	3.97	296.00	5893.92	-88.68	91.18	-126.88	0.51	156.24	305.70
5925.00	3.85	295.81	5918.86	-89.39	91.92	-128.41	0.47	157.92	305.60
5950.00	3.86	293.59	5943.80	-90.07	92.62	-129.94	0.60	159.57	305.48
5975.00	3.89	294.37	5968.75	-90.72	93.31	-131.48	0.25	161.23	305.36
6000.00	4.34	294.18	5993.68	-91.43	94.05	-133.12	1.79	162.99	305.24
6025.00	4.58	296.00	6018.61	-92.22	94.87	-134.87	1.12	164.90	305.12
6050.00	4.59	295.82	6043.53	-93.06	95.75	-136.67	0.06	166.87	305.01
6075.00	4.35	295.02	6068.45	-93.86	96.58	-138.43	0.98	168.79	304.90
6100.00	4.17	294.33	6093.38	-94.60	97.36	-140.12	0.74	170.62	304.79
6125.00	3.85	293.72	6118.32	-95.28	98.07	-141.71	1.31	172.34	304.68
6150.00	3.72	295.20	6143.26	-95.93	98.75	-143.22	0.65	173.96	304.59
6175.00	3.80	297.41	6168.21	-96.63	99.48	-144.68	0.66	175.58	304.51
6200.00	3.95	298.58	6193.15	-97.39	100.27	-146.17	0.68	177.26	304.45
6225.00	4.10	296.90	6218.09	-98.18	101.09	-147.73	0.78	179.00	304.38
6250.00	4.13	296.88	6243.03	-98.96	101.90	-149.33	0.11	180.78	304.31
6275.00	4.12	299.58	6267.96	-99.78	102.75	-150.91	0.78	182.57	304.25
6300.00	4.20	299.63	6292.90	-100.64	103.64	-152.49	0.29	184.38	304.20
6325.00	4.08	299.07	6317.83	-101.50	104.53	-154.06	0.48	186.18	304.16
6350.00	3.58	299.76	6342.78	-102.29	105.35	-155.52	2.02	187.84	304.11
6375.00	3.25	298.77	6367.73	-102.99	106.08	-156.82	1.33	189.32	304.08
6400.00	2.90	299.33	6392.70	-103.62	106.73	-157.99	1.42	190.66	304.04
6425.00	2.59	298.37	6417.67	-104.18	107.31	-159.04	1.25	191.85	304.01
6450.00	2.75	300.78	6442.64	-104.73	107.88	-160.05	0.79	193.01	303.98

MD	INC	AZIM	TVD	VS	IN/S	HE/W	DLS	CLOSURE	CLOSURE
ft	deg	deg	ft	ft	ft	ft	%/100ft	DIST	DIR
6475.00	3.28	300.68	6467.61	-105.38	108.55	-161.18	2.12	194.32	303.96
6500.00	3.84	301.83	6492.56	-106.16	109.36	-162.50	2.25	195.88	303.94
6525.00	3.87	300.82	6517.50	-107.01	110.23	-163.94	0.30	197.55	303.92
6550.00	3.97	301.05	6542.44	-107.86	111.11	-165.41	0.43	199.26	303.89
6575.00	4.19	303.99	6567.38	-108.78	112.07	-166.90	1.20	201.04	303.88
6600.00	4.28	305.23	6592.31	-109.80	113.12	-168.42	0.51	202.88	303.89
6625.00	4.25	305.11	6617.24	-110.84	114.19	-169.94	0.10	204.74	303.90
6650.00	4.40	304.62	6642.17	-111.89	115.27	-171.49	0.60	206.63	303.91
6675.00	4.90	305.67	6667.09	-113.03	116.43	-173.15	2.02	208.65	303.92
6700.00	5.02	307.64	6691.99	-114.28	117.72	-174.88	0.84	210.81	303.95
6725.00	4.95	311.44	6716.90	-115.63	119.11	-176.56	1.35	212.97	304.00
6750.00	4.65	312.36	6741.81	-117.00	120.50	-178.11	1.23	215.05	304.08
6775.00	4.36	315.56	6766.73	-118.33	121.86	-179.53	1.55	216.98	304.17
6800.00	3.93	317.50	6791.67	-119.62	123.17	-180.77	1.80	218.75	304.27
6825.00	4.26	323.31	6816.61	-120.97	124.55	-181.91	2.11	220.46	304.40
6850.00	4.97	325.45	6841.52	-122.58	126.19	-183.07	2.94	222.35	304.58
6875.00	5.82	326.50	6866.41	-124.51	128.14	-184.39	3.43	224.54	304.80
6900.00	6.17	325.47	6891.28	-126.64	130.30	-185.85	1.43	226.98	305.03
6925.00	6.10	325.17	6916.13	-128.81	132.50	-187.37	0.30	229.48	305.27
6950.00	5.94	327.01	6941.00	-130.96	134.67	-188.83	0.99	231.94	305.50
6955.00	6.01	325.00	6945.97	-131.38	135.10	-189.12	4.39	232.42	305.54