



Field:	
Map Units:	usFt
Vertical Reference Datum (VRD):	Mean Sea Level
Projected Coordinate System:	Zone 17N (84 W to 78 W)

Section:		
Company Name:	Southwestern Energy Company	
Units:	Feet	
TVD Reference:	Rotary Table	
Position:		
	Northing:	14,523,604.066
	Easting:	1,742,470.106
North Reference:	Grid	Grid Cor
Comment :		

Slot:			
Position (Relative to SW Corner Of Section)			
N/S	0.257999999	Northing:	14,523,604.324
E/W	3.609	Easting:	1,742,473.715
Ground Level Elevation (usft):	Ground Level:		
Comment :			

Well:			
Type:	Main well		
KB Elevation	RKB @ 874.80usft (SDC 41)		
Closure Distance:	10036.82	Closure Azimut	
Comment:			

Vertical Section:			
Position of Origin (Relative to Slot centre)	N/S	RECEIVED	0
Vertical Section Azimuth:	335.96	Office of Oil and Gas	

Survey

Name	Definitive Survey	Company	SWN
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Magnetic Parameters:

Model:	BGGM2014	Field Strength:	52,454	Declination:	-8.71	Dip:
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Survey Tool Ranges:

Survey Tool	Start MD (ft)	End MD (ft)
NS-GYRO-MS	26.00	313.00
MWD	353.00	16058.00

Survey Points: (Relative to Slot Centre, TVD Relative to Slot TVD Reference)

MD (Ft)	Inc	Az	TVD (Ft)	+N/-S (Ft)	+E/-W (Ft)	V Sec (Ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00
26.00	0.00	193.93	26.00	0.00	0.00	0.00
30.00	0.37	193.93	30.00	-0.01	0.00	-0.01
60.00	0.43	176.58	60.00	-0.22	-0.02	-0.19
90.00	0.43	181.20	90.00	-0.44	-0.02	-0.40
120.00	0.51	185.78	120.00	-0.69	-0.03	-0.62
150.00	0.50	172.25	150.00	-0.95	-0.03	-0.86
180.00	0.34	161.48	180.00	-1.17	0.02	-1.07
210.00	0.28	174.87	209.99	-1.32	0.05	-1.23
240.00	0.31	183.05	239.99	-1.48	0.06	-1.37
270.00	0.13	131.00	269.99	-1.58	0.08	-1.48
300.00	0.17	140.10	299.99	-1.64	0.13	-1.55
313.00	0.21	194.59	312.99	-1.68	0.14	-1.59
353.00	0.11	273.08	352.99	-1.74	0.08	-1.63
447.00	0.20	278.32	446.99	-1.72	-0.17	-1.50
542.00	0.26	274.83	541.99	-1.67	-0.55	-1.30
637.00	0.21	287.44	636.99	-1.60	-0.93	-1.08
733.00	0.33	259.56	732.99	-1.60	-1.37	-0.90
827.00	0.30	265.69	826.99	-1.67	-1.88	-0.76
921.00	0.50	276.73	920.99	-1.64	-2.54	-0.46
1017.00	0.62	274.23	1016.98	-1.55	-3.47	0.00
1111.00	0.78	281.37	1110.98	-1.39	-4.60	0.61
1206.00	0.74	292.90	1205.97	-1.02	-5.80	1.43
1302.00	0.83	286.11	1301.96	-0.59	-7.04	2.33
1397.00	0.76	294.20	1396.95	-0.14	-8.28	3.25
1492.00	0.81	296.18	1491.94	0.42	-9.45	4.23
1587.00	0.71	308.64	1586.93	1.08	-10.52	5.27
1667.00	0.57	316.00	1666.93	1.68	-11.18	6.09
1762.00	0.59	324.62	1761.92	2.42	-11.79	7.01
1857.00	0.65	355.53	1856.92	3.35	-12.12	8.00
1952.00	0.77	284.90	1951.91	4.05	-12.78	8.91

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2047.00	0.48	274.88	2046.91	4.25	-13.79	9.50
2142.00	2.97	220.47	2141.86	2.41	-15.78	8.63
2237.00	7.02	231.13	2236.48	-3.11	-21.90	6.09
2332.00	10.42	231.29	2330.37	-12.12	-33.13	2.42
2426.00	10.72	236.15	2422.77	-22.31	-47.02	-1.22
2521.00	12.45	240.00	2515.84	-32.35	-63.23	-3.79
2617.00	15.44	243.37	2609.00	-43.26	-83.62	-5.44
2711.00	18.87	242.19	2698.80	-55.96	-108.26	-7.01
2807.00	21.67	240.99	2788.85	-71.80	-137.50	-9.56
2902.00	26.69	242.87	2875.49	-90.05	-171.85	-12.23
2996.00	33.35	245.47	2956.84	-110.43	-214.19	-13.59
3091.00	29.15	246.18	3038.03	-130.62	-259.13	-13.73
3186.00	28.24	248.01	3121.37	-148.38	-301.14	-12.84
3281.00	29.43	243.68	3204.60	-167.15	-342.91	-12.96
3376.00	29.03	241.78	3287.50	-188.40	-384.14	-15.57
3471.00	27.63	243.13	3371.12	-209.26	-424.10	-18.34
3566.00	25.03	246.52	3456.26	-227.22	-462.20	-19.23
3661.00	24.56	246.22	3542.51	-243.19	-498.70	-18.94
3757.00	25.12	241.68	3629.63	-260.91	-534.89	-20.37
3852.00	26.00	243.57	3715.34	-279.74	-571.29	-22.75
3946.00	26.39	246.99	3799.69	-297.08	-608.97	-23.23
4042.00	26.69	252.45	3885.58	-311.92	-649.17	-20.41
4136.00	26.49	253.55	3969.64	-324.22	-689.41	-15.25
4231.00	27.18	250.47	4054.41	-337.48	-730.18	-10.75
4326.00	26.19	246.53	4139.30	-353.08	-769.86	-8.83
4421.00	26.43	246.82	4224.46	-369.75	-808.53	-8.31
4517.00	27.12	248.55	4310.17	-386.17	-848.53	-7.00
4611.00	27.06	246.88	4393.86	-402.40	-888.14	-5.69
4706.00	26.47	244.80	4478.68	-419.90	-927.17	-5.77
4800.00	25.37	240.41	4563.23	-438.76	-963.64	-8.14
4895.00	25.04	239.85	4649.19	-458.91	-998.73	-12.25
4990.00	25.11	241.75	4735.23	-478.55	-1033.87	-15.87
5085.00	25.98	244.55	4820.95	-497.03	-1070.41	-17.86
5180.00	25.84	250.61	4906.42	-512.85	-1108.74	-16.69
5275.00	27.73	250.62	4991.22	-527.06	-1149.12	-13.22
5371.00	27.33	244.90	5076.36	-543.82	-1190.15	-11.81
5466.00	24.63	244.37	5161.76	-561.64	-1227.76	-12.77
5560.00	24.81	241.97	5247.14	-579.38	-1262.83	-14.68
5626.00	25.79	239.24	5306.81	-593.23	-1287.39	-15.32
5669.00	27.77	239.66	5345.20	-603.08	-1304.07	-15.52
5722.00	27.96	243.81	5392.06	-614.80	-1329.88	-21.34
5817.00	29.67	257.06	5475.38	-629.91	-1368.83	-17.64
5911.00	32.41	271.95	5556.03	-634.27	-1416.76	-2.10
6006.00	37.84	278.81	5633.73	-628.93	-1471.06	-24.89

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6102.00	40.17	288.90	5708.41	-614.38	-1529.52	62.00
6151.00	43.99	294.30	5744.78	-602.25	-1560.00	85.50
6196.00	46.71	296.61	5776.40	-588.48	-1588.89	109.84
6239.00	48.86	297.46	5805.29	-574.00	-1617.26	134.62
6292.00	52.32	298.97	5838.94	-554.63	-1653.33	167.00
6335.00	55.61	302.02	5864.23	-536.97	-1683.27	195.32
6387.00	60.04	306.13	5891.93	-512.30	-1719.68	232.69
6435.00	64.43	309.89	5914.29	-486.13	-1753.12	270.21
6482.00	68.29	313.21	5933.14	-457.57	-1785.31	309.41
6526.00	71.47	315.57	5948.27	-428.67	-1814.82	347.83
6577.00	73.37	318.34	5963.68	-393.14	-1848.00	393.79
6622.00	75.56	323.10	5975.73	-359.59	-1875.43	435.61
6672.00	80.70	325.28	5986.02	-319.92	-1904.04	483.49
6736.00	88.58	327.41	5991.99	-266.92	-1939.32	546.26
6768.00	90.49	331.03	5992.25	-239.43	-1955.69	578.03
6862.00	91.51	336.42	5990.61	-155.19	-1997.28	671.91
6958.00	91.35	336.79	5988.21	-67.11	-2035.39	767.88
7052.00	91.51	336.16	5985.87	19.05	-2072.90	861.84
7147.00	91.42	336.71	5983.44	106.10	-2110.86	956.81
7242.00	91.45	337.84	5981.06	193.70	-2147.55	1051.75
7337.00	90.34	337.84	5979.58	281.67	-2183.38	1146.69
7432.00	90.31	338.86	5979.04	369.96	-2218.43	1241.60
7527.00	90.31	337.85	5978.52	458.26	-2253.47	1336.52
7622.00	90.31	337.16	5978.01	546.03	-2289.81	1431.48
7717.00	90.37	336.41	5977.45	633.34	-2327.26	1526.47
7812.00	90.37	334.96	5976.83	719.91	-2366.37	1621.46
7907.00	90.25	333.28	5976.32	805.37	-2407.84	1716.41
8002.00	90.46	332.92	5975.73	890.09	-2450.82	1811.29
8097.00	91.38	333.22	5974.20	974.78	-2493.84	1906.15
8192.00	91.51	332.97	5971.81	1059.47	-2536.81	2001.00
8287.00	91.32	335.42	5969.46	1144.96	-2578.15	2095.92
8383.00	91.48	337.42	5967.12	1232.92	-2616.54	2191.89
8478.00	89.94	337.49	5965.94	1320.65	-2652.96	2286.84
8573.00	89.88	337.74	5966.09	1408.49	-2689.14	2381.80
8668.00	89.97	339.11	5966.21	1496.83	-2724.07	2476.71
8763.00	89.91	336.30	5966.31	1584.72	-2760.11	2571.66
8858.00	89.88	336.58	5966.49	1671.80	-2798.08	2666.66
8953.00	89.85	336.35	5966.71	1758.90	-2836.02	2761.65
9049.00	89.94	335.76	5966.89	1846.63	-2874.98	2857.65
9143.00	89.85	335.93	5967.06	1932.40	-2913.44	2951.65
9238.00	91.60	336.02	5965.86	2019.16	-2952.12	3046.64
9333.00	91.45	334.44	5963.33	2105.39	-2991.90	3141.60
9427.00	91.54	334.74	5960.88	2191.27	-3032.23	3235.54
9522.00	91.60	334.63	5958.27	2276.11	-3072.83	3330.48

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9617.00	91.57	334.67	5955.65	2361.93	-3113.49	3425.42
9712.00	91.63	335.23	5952.99	2447.96	-3153.70	3520.36
9806.00	89.85	336.74	5951.78	2533.81	-3191.95	3614.35
9901.00	89.97	336.29	5951.93	2620.94	-3229.81	3709.35
9995.00	89.57	332.72	5952.31	2705.77	-3270.26	3803.30
10090.00	89.51	336.91	5953.07	2791.72	-3310.68	3898.26
10186.00	90.15	338.66	5953.35	2880.59	-3346.97	3994.20
10277.00	89.66	341.23	5953.50	2966.07	-3378.17	4084.97
10369.00	90.77	337.75	5953.16	3052.22	-3410.40	4176.78
10460.00	90.46	336.37	5952.18	3136.01	-3445.87	4267.76
10552.00	90.18	334.56	5951.67	3219.70	-3484.07	4359.75
10643.00	89.75	333.81	5951.72	3301.62	-3523.70	4450.71
10739.00	90.46	335.40	5951.55	3388.34	-3564.86	4546.68
10835.00	90.43	336.95	5950.80	3476.16	-3603.64	4642.67
10928.00	90.31	336.62	5950.20	3561.62	-3640.30	4735.66
11023.00	89.75	333.11	5950.15	3647.61	-3680.64	4830.62
11118.00	90.03	332.79	5950.33	3732.22	-3723.85	4925.49
11213.00	90.22	335.54	5950.13	3817.72	-3765.24	5020.44
11307.00	90.22	336.38	5949.77	3903.56	-3803.53	5114.44
11402.00	90.46	337.25	5949.20	3990.89	-3840.93	5209.42
11497.00	90.43	339.61	5948.46	4079.23	-3875.86	5304.32
11591.00	90.49	340.17	5947.71	4167.49	-3908.17	5398.10
11686.00	90.52	337.55	5946.87	4256.09	-3942.43	5492.97
11780.00	90.34	334.61	5946.17	4342.00	-3980.54	5586.95
11876.00	90.52	335.19	5945.45	4428.93	-4021.26	5682.93
11971.00	90.40	335.10	5944.68	4515.13	-4061.19	5777.92
12066.00	90.43	335.95	5944.00	4601.59	-4100.55	5872.91
12160.00	90.49	335.67	5943.24	4687.34	-4139.06	5966.91
12255.00	90.43	334.53	5942.48	4773.50	-4179.06	6061.90
12350.00	90.58	332.79	5941.64	4858.63	-4221.21	6156.81
12445.00	90.62	333.71	5940.65	4943.46	-4263.97	6251.70
12540.00	90.71	335.85	5939.54	5029.39	-4304.44	6346.67
12634.00	90.65	337.10	5938.43	5115.57	-4341.96	6440.66
12729.00	90.62	337.87	5937.37	5203.32	-4378.33	6535.62
12824.00	90.68	338.51	5936.30	5291.52	-4413.62	6630.54
12918.00	90.71	337.42	5935.16	5378.64	-4448.89	6724.47
13014.00	90.65	338.34	5934.02	5467.57	-4485.03	6820.41
13109.00	90.80	337.50	5932.81	5555.60	-4520.74	6915.34
13203.00	90.71	337.22	5931.58	5642.34	-4556.92	7009.31
13298.00	90.62	337.21	5930.47	5729.93	-4593.71	7104.28
13393.00	90.62	335.86	5929.45	5817.06	-4631.54	7199.25
13488.00	90.74	334.47	5928.32	5903.27	-4671.43	7294.25
13582.00	90.80	332.67	5927.05	5987.43	-4713.27	7388.15
13677.00	90.74	331.23	5925.78	6071.26	-4757.93	7482.91

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13772.00	90.65	330.72	5924.63	6154.33	-4804.02	7577.54
13868.00	90.65	333.80	5923.54	6239.28	-4848.70	7673.33
13962.00	90.65	337.03	5922.47	6324.74	-4887.80	7767.30
14057.00	91.05	336.86	5921.06	6412.14	-4925.00	7862.28
14151.00	91.05	334.82	5919.34	6497.89	-4963.46	7956.26
14246.00	91.05	336.36	5917.60	6584.38	-5002.72	8051.24
14340.00	90.92	338.71	5915.98	6671.23	-5038.63	8145.18
14435.00	90.86	337.98	5914.50	6759.51	-5073.68	8240.09
14530.00	90.86	337.76	5913.08	6847.50	-5109.46	8335.02
14624.00	90.37	339.03	5912.07	6934.89	-5144.07	8428.93
14719.00	90.22	338.55	5911.58	7023.45	-5178.44	8523.81
14814.00	90.25	336.17	5911.19	7111.13	-5215.01	8618.78
14909.00	90.37	335.47	5910.68	7197.79	-5253.92	8713.78
15004.00	90.31	335.32	5910.11	7284.16	-5293.47	8808.77
15099.00	90.40	334.70	5909.52	7370.27	-5333.61	8903.75
15193.00	90.28	335.27	5908.97	7455.45	-5373.35	8997.74
15288.00	90.34	331.97	5908.45	7540.54	-5415.56	9092.64
15382.00	90.40	332.97	5907.85	7623.90	-5459.00	9186.47
15477.00	90.80	334.35	5906.85	7709.03	-5501.15	9281.38
15573.00	90.65	336.60	5905.64	7796.35	-5540.99	9377.37
15669.00	90.62	335.76	5904.57	7884.17	-5579.76	9473.36
15763.00	90.74	334.52	5903.46	7969.45	-5619.28	9567.34
15858.00	90.68	340.75	5902.28	8057.25	-5655.40	9662.24
15953.00	90.83	340.28	5901.03	8146.81	-5687.09	9756.94
16032.00	90.74	340.28	5899.94	8221.17	-5713.74	9835.70
16058.00	90.74	340.28	5899.61	8245.64	-5722.52	9861.63

Wellpath created using minimum curvature

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02/26/2016

BETTY SCHAFFER MSH 201

Marshall Co. WV

PANHANDLE (BETTY SCHAFFER MSH PAD)

Latitude: 39.9908333333

Longitude: -80.6356388889

Divergence: 0.23

BETTY SCHAFFER MSH 201

Latitude: 39.9908340000

Longitude: -80.6356260000

BETTY SCHAFFER MSH 201

Rig Height (Drill Floor): 26

h: 325.239

0.00 E/W 0.00

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67.29

Date:

7/12/2015

Source Survey

Gyro/SWN/SDC41 (WB#1

MWD/SWN/SDC41 (WB#

DLS (deg/ 100ft)	Build Rate (deg/ 100ft)	Turn Rate (deg/ 100ft)	
0.00	0.00	0.00	
0.00	0.00	0.00	G
9.25	9.25	0.00	G
0.45	0.20	-57.83	G
0.12	0.00	15.40	G
0.29	0.27	15.27	G
0.40	-0.03	-45.10	G
0.59	-0.53	-35.90	G
0.31	-0.20	44.63	G
0.17	0.10	27.27	G
0.84	-0.60	-173.50	G
0.15	0.13	30.33	G
1.37	0.31	419.15	G
0.54	-0.25	196.23	M
0.10	0.10	5.57	M
0.06	0.06	-3.67	M
0.08	-0.05	13.27	M
0.18	0.13	-29.04	M
0.05	-0.03	6.52	M
0.23	0.21	11.74	M
0.13	0.13	-2.60	M
0.19	0.17	7.60	M
0.17	-0.04	12.14	M
0.13	0.09	-7.07	M
0.14	-0.07	8.52	M
0.06	0.05	2.08	M
0.20	-0.11	13.12	M
0.20	-0.18	9.20	M
0.09	0.02	9.07	M
0.35	0.06	32.54	M
0.87	0.13	-74.35	M

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0.33	-0.31	-10.55	M
2.86	2.62	-57.27	M
4.36	4.26	11.22	M
3.58	3.58	0.17	M
1.00	0.32	5.17	M
1.99	1.82	4.05	M
3.23	3.11	3.51	M
3.67	3.65	-1.26	M
2.95	2.92	-1.25	M
5.35	5.28	1.98	M
7.22	7.09	2.77	M
4.44	-4.42	0.75	M
1.33	-0.96	1.93	M
2.53	1.25	-4.56	M
1.06	-0.42	-2.00	M
1.62	-1.47	1.42	M
3.16	-2.74	3.57	M
0.51	-0.49	-0.32	M
2.07	0.58	-4.73	M
1.26	0.93	1.99	M
1.66	0.41	3.64	M
2.56	0.31	5.69	M
0.57	-0.21	1.17	M
1.63	0.73	-3.24	M
2.13	-1.04	-4.15	M
0.29	0.25	0.31	M
1.08	0.72	1.80	M
0.81	-0.06	-1.78	M
1.17	-0.62	-2.19	M
2.35	-1.17	-4.67	M
0.43	-0.35	-0.59	M
0.85	0.07	2.00	M
1.57	0.92	2.95	M
2.79	-0.15	6.38	M
1.99	1.99	0.01	M
2.78	-0.42	-5.96	M
2.85	-2.84	-0.56	M
1.08	0.19	-2.55	M
2.31	1.48	-4.14	M
4.63	4.60	0.98	M
3.68	0.36	7.83	M
6.95	1.80	13.95	M
8.65	2.91	15.84	M
7.06	5.72	7.22	M

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7.04	2.43	10.51	M
10.73	7.80	11.02	M
7.06	6.04	5.13	M
5.21	5.00	1.98	M
6.89	6.53	2.85	M
9.56	7.65	7.09	M
10.83	8.52	7.90	M
11.47	9.15	7.83	M
10.45	8.21	7.06	M
8.81	7.23	5.36	M
6.38	3.73	5.43	M
11.29	4.87	10.58	M
11.13	10.28	4.36	M
12.75	12.31	3.33	M
12.79	5.97	11.31	M
5.83	1.09	5.73	M
0.42	-0.17	0.39	M
0.69	0.17	-0.67	M
0.59	-0.09	0.58	M
1.19	0.03	1.19	M
1.17	-1.17	0.00	M
1.07	-0.03	1.07	M
1.06	0.00	-1.06	M
0.73	0.00	-0.73	M
0.79	0.06	-0.79	M
1.53	0.00	-1.53	M
1.77	-0.13	-1.77	M
0.44	0.22	-0.38	M
1.02	0.97	0.32	M
0.30	0.14	-0.26	M
2.59	-0.20	2.58	M
2.09	0.17	2.08	M
1.62	-1.62	0.07	M
0.27	-0.06	0.26	M
1.45	0.09	1.44	M
2.96	-0.06	-2.96	M
0.30	-0.03	0.29	M
0.24	-0.03	-0.24	M
0.62	0.09	-0.61	M
0.20	-0.10	0.18	M
1.84	1.84	0.09	M
1.67	-0.16	-1.66	M
0.33	0.10	0.32	M
0.13	0.06	-0.12	M

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0.05	-0.03	0.04	M
0.59	0.06	0.59	M
2.48	-1.89	1.61	M
0.49	0.13	-0.47	M
3.82	-0.43	-3.80	M
4.41	-0.06	4.41	M
1.94	0.67	1.82	M
2.88	-0.54	2.82	M
3.97	1.21	-3.78	M
1.55	-0.34	-1.52	M
1.99	-0.30	-1.97	M
0.95	-0.47	-0.82	M
1.81	0.74	1.66	M
1.61	-0.03	1.61	M
0.38	-0.13	-0.35	M
3.74	-0.59	-3.69	M
0.45	0.29	-0.34	M
2.90	0.20	2.89	M
0.89	0.00	0.89	M
0.95	0.25	0.92	M
2.48	-0.03	2.48	M
0.60	0.06	0.60	M
2.76	0.03	-2.76	M
3.13	-0.19	-3.13	M
0.63	0.19	0.60	M
0.16	-0.13	-0.09	M
0.90	0.03	0.89	M
0.30	0.06	-0.30	M
1.20	-0.06	-1.20	M
1.84	0.16	-1.83	M
0.97	0.04	0.97	M
2.25	0.09	2.25	M
1.33	-0.06	1.33	M
0.81	-0.03	0.81	M
0.68	0.06	0.67	M
1.16	0.03	-1.16	M
0.96	-0.06	0.96	M
0.90	0.16	-0.88	M
0.31	-0.10	-0.30	M
0.10	-0.09	-0.01	M
1.42	0.00	-1.42	M
1.47	0.13	-1.46	M
1.92	0.06	-1.91	M
1.52	-0.06	-1.52	M

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0.55	-0.09	-0.54	M
3.21	0.00	3.21	M
3.44	0.00	3.44	M
0.46	0.42	-0.18	M
2.17	0.00	-2.17	M
1.62	0.00	1.62	M
2.50	-0.14	2.50	M
0.77	-0.06	-0.77	M
0.23	0.00	-0.23	M
1.45	-0.52	1.35	M
0.53	-0.16	-0.51	M
2.51	0.03	-2.51	M
0.75	0.13	-0.74	M
0.17	-0.06	-0.16	M
0.66	0.09	-0.65	M
0.62	-0.13	0.61	M
3.47	0.06	-3.47	M
1.07	0.06	1.06	M
1.51	0.42	1.45	M
2.35	-0.16	2.34	M
0.88	-0.03	-0.88	M
1.33	0.13	-1.32	M
6.56	-0.06	6.56	M
0.52	0.16	-0.49	M
0.11	-0.11	0.00	M
0.00	0.00	0.00	

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