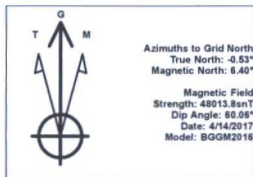


One Energy Partners

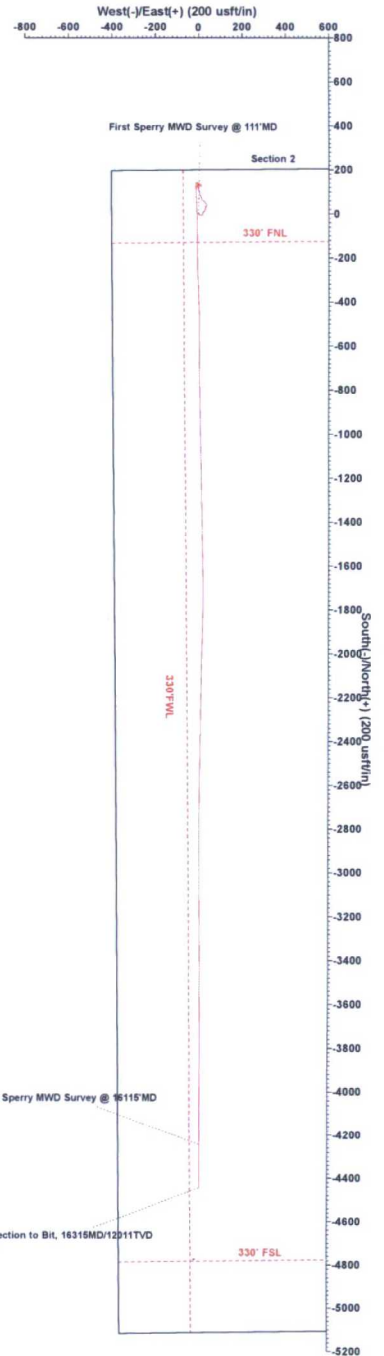
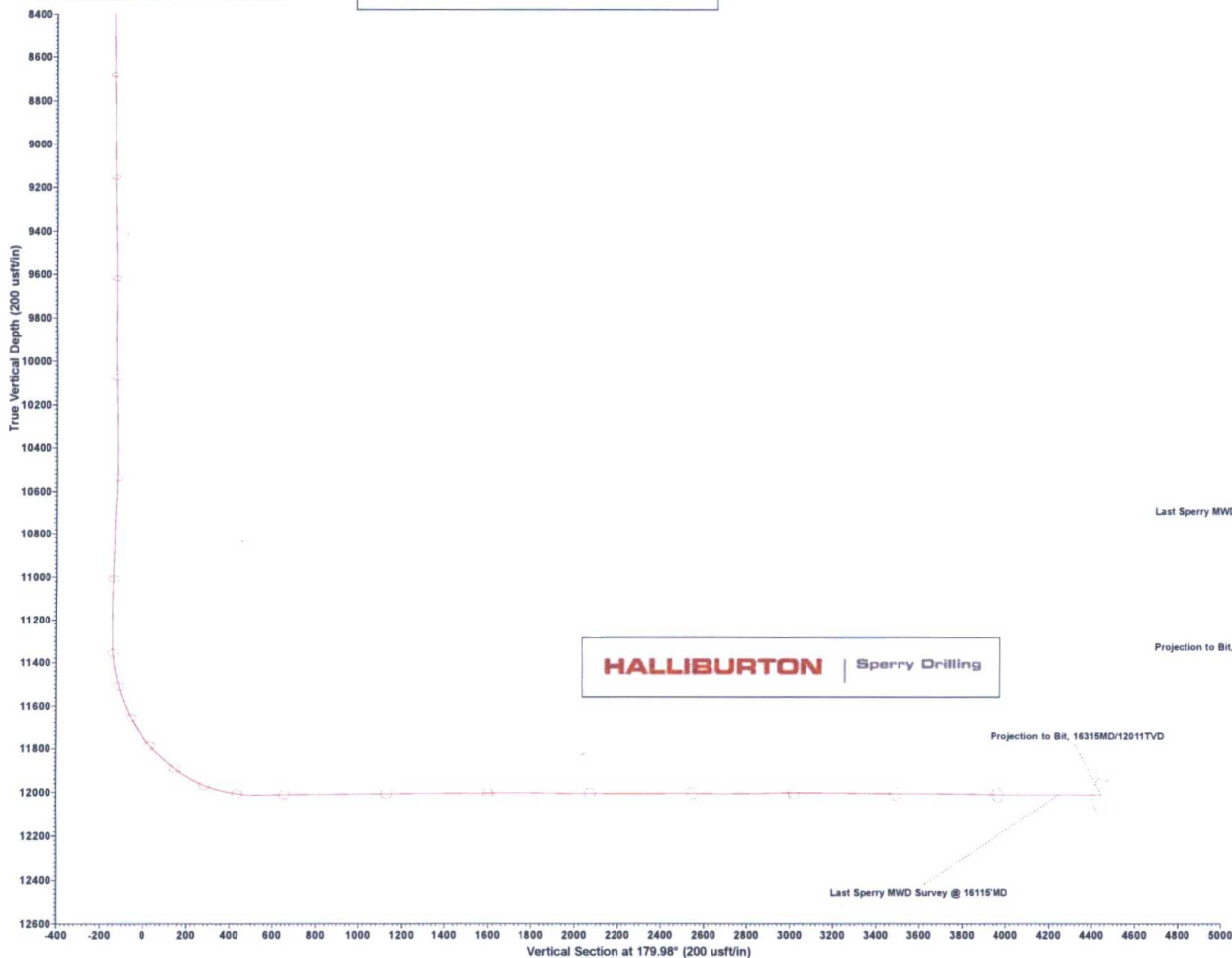
WELL DETAILS: County Fair BTY State 1H

Plat @ 3279.00usft (GL3254'+25ft=3279ft (Precision 554))
Ground Level: 3254.00

North	East	Lat	Long
425592.90	846989.80	32° 5' 58.237' N	103° 20' 44.001' W



Lea County, NM (NAD 83)
County Fair BTY State
County Fair BTY State 1H
200' FNL, 400' FWL
Wellbore #1
Final Surveys
GL3254'+25ft=3279ft (Precision 554)
No plan data is available



GL3254'+25ft=3279ft (Precision 554)

One Energy Partners

Lea County, NM (NAD 83) County Fair BTY State

API# 30-025-43117

County Fair BTY State 1H

200' FNL, 400' FWL

Wellbore #1

Design: Final Surveys

Sperry Drilling Services

Combo Report

13 June, 2017

Well Coordinates: 32° 09' 58.24" N
103° 20' 44.00" W

North American Datum 1983
New Mexico Eastern Zone
425,592.90 N
846,989.80 E

Ground Level: 3,254.00 usft

Local Coordinate Origin:

Centered on Well County Fair BTY State 1H

Viewing Datum:

Plat @ 3279.00usft (GL3254'+25ft=3279ft (Precision 554))

TVDs to System:

N

North Reference:

Grid

Unit System:

API US Survey Feet

Version: 5000.1 Build: 81

Report Version: Midcon Combo v1.11

HALLIBURTON

Design Report for County Fair BTY State 1H - Final Surveys

Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	TVD below System (usft)	Vertical Depth (usft)	Local Coordinates		Map Coordinates		Dogleg Rate (°/100usft)	Vertical Section (usft)	Comments
					Northing (usft)	Easting (usft)	Northing (usft)	Easting (usft)			
0.00	0.00	0.00	-3,279.00	0.00	0.00 N	0.00 E	425,592.90	846,989.80	0.00	0.00	
111.00	0.30	81.40	-3,168.00	111.00	0.04 N	0.29 E	425,592.94	846,990.09	0.27	-0.04	First Sperry MWD Survey @ 111' MD
258.00	0.50	38.70	-3,021.00	258.00	0.60 N	1.07 E	425,593.50	846,990.87	0.24	-0.60	
386.00	0.00	104.60	-2,893.01	385.99	1.04 N	1.42 E	425,593.94	846,991.22	0.39	-1.04	
546.00	0.40	304.60	-2,733.01	545.99	1.35 N	0.96 E	425,594.25	846,990.76	0.25	-1.35	
666.00	0.40	274.60	-2,613.01	665.99	1.63 N	0.20 E	425,594.53	846,990.00	0.17	-1.63	
803.00	0.50	309.10	-2,476.01	802.99	2.04 N	0.74 W	425,594.94	846,989.06	0.21	-2.04	
969.00	0.44	242.95	-2,310.02	968.98	2.21 N	1.87 W	425,595.11	846,987.93	0.31	-2.21	
1,061.00	0.44	242.82	-2,218.02	1,060.98	1.89 N	2.50 W	425,594.79	846,987.30	0.00	-1.89	
1,153.00	0.33	218.00	-2,126.02	1,152.98	1.52 N	2.98 W	425,594.42	846,986.82	0.21	-1.52	
1,247.00	0.31	176.26	-2,032.02	1,246.98	1.05 N	3.13 W	425,593.95	846,986.67	0.24	-1.05	
1,340.00	0.50	172.67	-1,939.03	1,339.97	0.40 N	3.06 W	425,593.30	846,986.74	0.21	-0.40	
1,434.00	0.48	183.21	-1,845.03	1,433.97	0.40 S	3.03 W	425,592.50	846,986.77	0.10	0.40	
1,527.00	0.28	138.20	-1,752.03	1,526.97	0.96 S	2.90 W	425,591.94	846,986.90	0.37	0.96	
1,619.00	0.73	111.46	-1,660.04	1,618.96	1.34 S	2.21 W	425,591.56	846,987.59	0.54	1.34	
1,711.00	1.06	121.44	-1,568.05	1,710.95	2.00 S	0.94 W	425,590.90	846,988.86	0.40	2.00	
1,803.00	1.45	117.21	-1,476.07	1,802.93	2.98 S	0.83 E	425,589.92	846,990.63	0.44	2.98	
1,896.00	1.45	117.96	-1,383.10	1,895.90	4.07 S	2.91 E	425,588.83	846,992.71	0.02	4.07	
1,988.00	1.60	116.40	-1,291.13	1,987.87	5.19 S	5.09 E	425,587.71	846,994.89	0.17	5.19	
2,081.00	1.54	110.99	-1,198.17	2,080.83	6.21 S	7.42 E	425,586.69	846,997.22	0.17	6.21	
2,173.00	1.95	108.24	-1,106.21	2,172.79	7.14 S	10.06 E	425,585.76	846,999.86	0.45	7.15	
2,265.00	1.07	83.75	-1,014.24	2,264.76	7.54 S	12.40 E	425,585.36	847,002.20	1.17	7.54	
2,358.00	1.19	59.09	-921.26	2,357.74	6.95 S	14.09 E	425,585.95	847,003.89	0.53	6.95	
2,450.00	1.49	48.68	-829.28	2,449.72	5.67 S	15.81 E	425,587.23	847,005.61	0.42	5.67	
2,544.00	1.48	43.54	-735.32	2,543.68	3.98 S	17.56 E	425,588.92	847,007.36	0.14	3.99	
2,637.00	2.01	42.64	-642.36	2,636.64	1.91 S	19.50 E	425,590.99	847,009.30	0.57	1.92	
2,730.00	1.57	355.57	-549.40	2,729.60	0.56 N	20.50 E	425,593.46	847,010.30	1.60	-0.55	
2,824.00	2.14	331.97	-455.45	2,823.55	3.39 N	19.58 E	425,596.29	847,009.38	1.00	-3.39	
2,916.00	0.87	354.22	-363.48	2,915.52	5.60 N	18.70 E	425,598.50	847,008.50	1.49	-5.60	
3,008.00	1.04	67.33	-271.49	3,007.51	6.62 N	19.40 E	425,599.52	847,009.20	1.25	-6.61	
3,100.00	2.95	59.58	-179.55	3,099.45	8.14 N	22.21 E	425,601.04	847,012.01	2.09	-8.13	
3,192.00	2.83	52.32	-87.67	3,191.33	10.73 N	26.05 E	425,603.63	847,015.85	0.42	-10.72	
3,284.00	0.70	20.41	4.29	3,283.29	12.64 N	28.05 E	425,605.54	847,017.85	2.46	-12.63	
3,376.00	1.37	24.77	96.27	3,375.27	14.17 N	28.70 E	425,607.07	847,018.50	0.73	-14.16	
3,469.00	1.42	31.70	189.24	3,468.24	16.16 N	29.77 E	425,609.06	847,019.57	0.19	-16.15	
3,561.00	0.80	341.13	281.23	3,560.23	17.74 N	30.17 E	425,610.64	847,019.97	1.20	-17.72	
3,654.00	1.77	319.44	374.20	3,653.20	19.44 N	29.02 E	425,612.34	847,018.82	1.15	-19.43	
3,746.00	1.30	36.71	466.18	3,745.18	21.36 N	28.72 E	425,614.26	847,018.52	2.12	-21.35	
3,839.00	1.58	53.68	559.15	3,838.15	22.96 N	30.39 E	425,615.86	847,020.19	0.55	-22.95	
3,931.00	2.11	57.19	651.10	3,930.10	24.63 N	32.83 E	425,617.53	847,022.63	0.59	-24.62	
4,025.00	1.65	351.11	745.06	4,024.06	26.91 N	34.08 E	425,619.81	847,023.88	2.22	-26.89	

Design Report for County Fair BTY State 1H - Final Surveys

Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	TVD below System (usft)	Vertical Depth (usft)	Local Coordinates		Map Coordinates		Dogleg Rate (°/100usft)	Vertical Section (usft)	Comments
					Northing (usft)	Easting (usft)	Northing (usft)	Easting (usft)			
4,118.00	2.05	332.34	838.01	4,117.01	29.70 N	33.10 E	425,622.60	847,022.90	0.78	-29.69	
4,211.00	2.34	317.51	930.94	4,209.94	32.58 N	31.04 E	425,625.48	847,020.84	0.68	-32.56	
4,304.00	0.47	197.48	1,023.92	4,302.92	33.61 N	29.65 E	425,626.51	847,019.45	2.80	-33.60	
4,396.00	1.36	111.29	1,115.91	4,394.91	32.86 N	30.55 E	425,625.76	847,020.35	1.53	-32.85	
4,488.00	0.79	30.30	1,207.90	4,486.90	33.01 N	31.89 E	425,625.91	847,021.69	1.59	-33.00	
4,580.00	2.20	78.02	1,299.87	4,578.87	33.92 N	33.93 E	425,626.82	847,023.73	1.92	-33.91	
4,673.00	1.64	32.29	1,392.82	4,671.82	35.42 N	36.39 E	425,628.32	847,026.19	1.70	-35.40	
4,766.00	2.67	19.94	1,485.75	4,764.75	38.58 N	37.84 E	425,631.48	847,027.64	1.21	-38.56	
4,860.00	1.44	3.95	1,579.69	4,858.69	41.81 N	38.67 E	425,634.71	847,028.47	1.43	-41.80	
4,953.00	1.09	312.82	1,672.67	4,951.67	43.58 N	38.10 E	425,636.48	847,027.90	1.22	-43.57	
5,046.00	1.96	316.18	1,765.64	5,044.64	45.33 N	36.35 E	425,638.23	847,026.15	0.94	-45.32	
5,140.00	2.02	317.52	1,859.58	5,138.58	47.71 N	34.12 E	425,640.61	847,023.92	0.08	-47.70	
5,240.00	1.98	311.57	1,959.52	5,238.52	50.16 N	31.64 E	425,643.06	847,021.44	0.21	-50.15	
5,289.00	1.90	314.13	2,008.49	5,287.49	51.29 N	30.42 E	425,644.19	847,020.22	0.24	-51.27	
5,383.00	1.96	308.49	2,102.44	5,381.44	53.37 N	28.04 E	425,646.27	847,017.84	0.21	-53.36	
5,478.00	2.07	311.59	2,197.38	5,476.38	55.52 N	25.49 E	425,648.42	847,015.29	0.16	-55.51	
5,572.00	1.96	310.01	2,291.32	5,570.32	57.68 N	22.99 E	425,650.58	847,012.79	0.13	-57.67	
5,667.00	1.87	307.78	2,386.27	5,665.27	59.68 N	20.52 E	425,652.58	847,010.32	0.12	-59.67	
5,761.00	1.93	303.72	2,480.22	5,759.22	61.49 N	17.99 E	425,654.39	847,007.79	0.16	-61.49	
5,855.00	1.80	297.07	2,574.17	5,853.17	63.04 N	15.36 E	425,655.94	847,005.16	0.27	-63.04	
5,950.00	4.36	350.68	2,669.04	5,948.04	67.29 N	13.44 E	425,660.19	847,003.24	3.79	-67.28	
6,046.00	4.00	349.64	2,764.78	6,043.78	74.18 N	12.25 E	425,667.08	847,002.05	0.38	-74.18	
6,139.00	3.43	340.88	2,857.59	6,136.59	80.00 N	10.76 E	425,672.90	847,000.56	0.86	-80.00	
6,234.00	3.16	338.44	2,952.43	6,231.43	85.12 N	8.86 E	425,678.02	846,998.66	0.32	-85.12	
6,328.00	2.96	338.02	3,046.30	6,325.30	89.78 N	7.00 E	425,682.68	846,996.80	0.21	-89.78	
6,421.00	2.99	339.85	3,139.17	6,418.17	94.29 N	5.27 E	425,687.19	846,995.07	0.11	-94.28	
6,517.00	2.92	339.03	3,235.04	6,514.04	98.92 N	3.53 E	425,691.82	846,993.33	0.09	-98.92	
6,611.00	2.92	340.24	3,328.92	6,607.92	103.41 N	1.86 E	425,696.31	846,991.66	0.07	-103.41	
6,705.00	2.89	341.28	3,422.80	6,701.80	107.91 N	0.29 E	425,700.81	846,990.09	0.06	-107.91	
6,800.00	2.86	345.76	3,517.68	6,796.68	112.47 N	1.06 W	425,705.37	846,988.74	0.24	-112.47	
6,894.00	2.72	345.82	3,611.57	6,890.57	116.91 N	2.18 W	425,709.81	846,987.62	0.15	-116.91	
6,988.00	2.46	343.64	3,705.47	6,984.47	121.01 N	3.29 W	425,713.91	846,986.51	0.30	-121.01	
7,083.00	2.32	347.20	3,800.39	7,079.39	124.84 N	4.29 W	425,717.74	846,985.51	0.21	-124.84	
7,177.00	2.11	346.70	3,894.32	7,173.32	128.38 N	5.11 W	425,721.28	846,984.69	0.22	-128.38	
7,271.00	2.08	345.69	3,988.26	7,267.26	131.71 N	5.93 W	425,724.61	846,983.87	0.05	-131.72	
7,365.00	0.84	351.93	4,082.22	7,361.22	134.05 N	6.45 W	425,726.95	846,983.35	1.33	-134.05	
7,459.00	0.33	25.44	4,176.22	7,455.22	134.98 N	6.43 W	425,727.88	846,983.37	0.63	-134.98	
7,554.00	0.31	20.83	4,271.22	7,550.22	135.46 N	6.22 W	425,728.36	846,983.58	0.03	-135.46	
7,648.00	0.14	63.33	4,365.22	7,644.22	135.75 N	6.03 W	425,728.65	846,983.77	0.24	-135.75	
7,742.00	1.14	99.20	4,459.21	7,738.21	135.65 N	5.01 W	425,728.55	846,984.79	1.10	-135.66	
7,836.00	1.32	301.35	4,553.20	7,832.20	136.07 N	5.01 W	425,728.97	846,984.79	2.57	-136.07	

Design Report for County Fair BTY State 1H - Final Surveys

Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	TVD below System (usft)	Vertical Depth (usft)	Local Coordinates		Map Coordinates		Dogleg Rate (°/100usft)	Vertical Section (usft)	Comments
					Northing (usft)	Easting (usft)	Northing (usft)	Easting (usft)			
7,931.00	0.46	122.01	4,648.20	7,927.20	136.43 N	5.62 W	425,729.33	846,984.18	1.87	-136.44	
8,025.00	0.93	120.35	4,742.19	8,021.19	135.85 N	4.64 W	425,728.75	846,985.16	0.50	-135.85	
8,119.00	1.54	121.54	4,836.17	8,115.17	134.80 N	2.91 W	425,727.70	846,986.89	0.65	-134.80	
8,214.00	0.94	71.53	4,931.15	8,210.15	134.38 N	1.08 W	425,727.28	846,988.72	1.24	-134.38	
8,308.00	1.17	78.95	5,025.13	8,304.13	134.81 N	0.60 E	425,727.71	846,990.40	0.28	-134.81	
8,402.00	0.94	94.53	5,119.11	8,398.11	134.93 N	2.31 E	425,727.83	846,992.11	0.39	-134.93	
8,496.00	0.88	106.23	5,213.10	8,492.10	134.67 N	3.77 E	425,727.57	846,993.57	0.21	-134.67	
8,591.00	1.05	114.99	5,308.09	8,587.09	134.10 N	5.26 E	425,727.00	846,995.06	0.24	-134.10	
8,685.00	1.31	102.33	5,402.07	8,681.07	133.51 N	7.09 E	425,726.41	846,996.89	0.39	-133.50	
8,779.00	1.48	105.89	5,496.04	8,775.04	132.94 N	9.30 E	425,725.84	846,999.10	0.20	-132.94	
8,873.00	1.09	108.31	5,590.02	8,869.02	132.33 N	11.32 E	425,725.23	847,001.12	0.42	-132.33	
8,967.00	0.62	120.19	5,684.01	8,963.01	131.79 N	12.61 E	425,724.69	847,002.41	0.53	-131.79	
9,062.00	0.47	117.87	5,779.00	9,058.00	131.35 N	13.40 E	425,724.25	847,003.20	0.16	-131.35	
9,157.00	0.69	175.97	5,874.00	9,153.00	130.60 N	13.78 E	425,723.50	847,003.58	0.63	-130.60	
9,251.00	0.83	207.97	5,967.99	9,246.99	129.44 N	13.50 E	425,722.34	847,003.30	0.47	-129.43	
9,346.00	1.53	226.09	6,062.97	9,341.97	127.95 N	12.27 E	425,720.85	847,002.07	0.83	-127.94	
9,440.00	1.48	216.19	6,156.94	9,435.94	126.10 N	10.65 E	425,719.00	847,000.45	0.28	-126.09	
9,532.00	1.15	244.72	6,248.91	9,527.91	124.74 N	9.11 E	425,717.64	846,998.91	0.79	-124.74	
9,623.00	1.31	275.28	6,339.89	9,618.89	124.45 N	7.25 E	425,717.35	846,997.05	0.73	-124.45	
9,713.00	1.42	281.49	6,429.87	9,708.87	124.77 N	5.13 E	425,717.67	846,994.93	0.20	-124.77	
9,805.00	2.37	289.47	6,521.82	9,800.82	125.63 N	2.22 E	425,718.53	846,992.02	1.07	-125.63	
9,896.00	2.99	284.07	6,612.72	9,891.72	126.83 N	1.86 W	425,719.73	846,987.94	0.73	-126.83	
9,988.00	3.21	250.97	6,704.59	9,983.59	126.58 N	6.62 W	425,719.48	846,983.18	1.93	-126.58	
10,078.00	1.53	222.25	6,794.51	10,073.51	124.86 N	9.81 W	425,717.76	846,979.99	2.23	-124.87	
10,170.00	1.45	196.60	6,886.48	10,165.48	122.84 N	10.97 W	425,715.74	846,978.83	0.72	-122.84	
10,260.00	1.03	156.34	6,976.46	10,255.46	121.01 N	10.97 W	425,713.91	846,978.83	1.04	-121.01	
10,351.00	1.26	101.86	7,067.45	10,346.45	120.05 N	9.66 W	425,712.95	846,980.14	1.17	-120.06	
10,446.00	1.91	76.36	7,162.41	10,441.41	120.21 N	7.10 W	425,713.11	846,982.70	0.99	-120.21	
10,541.00	2.14	50.27	7,257.35	10,536.35	121.72 N	4.20 W	425,714.62	846,985.60	0.99	-121.72	
10,635.00	2.95	7.82	7,351.27	10,630.27	125.24 N	2.52 W	425,718.14	846,987.28	2.12	-125.24	
10,729.00	2.62	15.04	7,445.16	10,724.16	129.71 N	1.63 W	425,722.61	846,988.17	0.51	-129.71	
10,824.00	1.03	38.34	7,540.11	10,819.11	132.48 N	0.54 W	425,725.38	846,989.26	1.81	-132.48	
10,918.00	2.68	356.55	7,634.06	10,913.06	135.33 N	0.15 W	425,728.23	846,989.65	2.16	-135.33	
11,013.00	2.05	317.91	7,728.98	11,007.98	138.81 N	1.42 W	425,731.71	846,988.38	1.76	-138.81	
11,108.00	2.94	282.61	7,823.90	11,102.90	140.60 N	4.94 W	425,733.50	846,984.86	1.83	-140.60	
11,202.00	1.30	316.05	7,917.83	11,196.83	141.90 N	8.03 W	425,734.80	846,981.77	2.12	-141.90	
11,297.00	1.68	257.79	8,012.81	11,291.81	142.38 N	10.14 W	425,735.28	846,979.66	1.57	-142.38	
11,328.00	1.77	246.56	8,043.79	11,322.79	142.09 N	11.02 W	425,734.99	846,978.78	1.13	-142.10	
11,360.00	4.13	205.32	8,075.75	11,354.75	140.85 N	11.97 W	425,733.75	846,977.83	9.48	-140.86	
11,391.00	6.68	186.57	8,106.61	11,385.61	138.05 N	12.65 W	425,730.95	846,977.15	9.90	-138.06	
11,423.00	8.68	177.49	8,138.32	11,417.32	133.79 N	12.76 W	425,726.69	846,977.04	7.29	-133.79	

Design Report for County Fair BTY State 1H - Final Surveys

Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	TVD below System (usft)	Vertical Depth (usft)	Local Coordinates		Map Coordinates		Dogleg Rate (°/100usft)	Vertical Section (usft)	Comments
					Northing (usft)	Easting (usft)	Northing (usft)	Easting (usft)			
11,454.00	11.06	176.38	8,168.86	11,447.86	128.49 N	12.47 W	425,721.39	846,977.33	7.70	-128.49	
11,486.00	13.18	178.22	8,200.15	11,479.15	121.77 N	12.16 W	425,714.67	846,977.64	6.73	-121.78	
11,517.00	16.08	179.36	8,230.14	11,509.14	113.95 N	12.00 W	425,706.85	846,977.80	9.40	-113.95	
11,549.00	18.80	179.09	8,260.67	11,539.67	104.36 N	11.87 W	425,697.26	846,977.93	8.50	-104.36	
11,580.00	20.80	177.55	8,289.83	11,568.83	93.86 N	11.56 W	425,686.76	846,978.24	6.67	-93.87	
11,612.00	22.47	177.21	8,319.58	11,598.58	82.08 N	11.02 W	425,674.98	846,978.78	5.23	-82.08	
11,643.00	24.26	176.53	8,348.03	11,627.03	69.80 N	10.34 W	425,662.70	846,979.46	5.84	-69.81	
11,675.00	25.70	178.10	8,377.04	11,656.04	56.31 N	9.72 W	425,649.21	846,980.08	4.95	-56.31	
11,707.00	28.69	175.35	8,405.50	11,684.50	41.71 N	8.86 W	425,634.61	846,980.94	10.13	-41.71	
11,738.00	32.03	177.18	8,432.25	11,711.25	26.08 N	7.85 W	425,618.98	846,981.95	11.18	-26.08	
11,769.00	34.94	178.47	8,458.10	11,737.10	8.99 N	7.21 W	425,601.89	846,982.59	9.66	-8.99	
11,801.00	38.77	178.23	8,483.70	11,762.70	10.19 S	6.66 W	425,582.71	846,983.14	11.98	10.19	
11,832.00	42.79	179.03	8,507.17	11,786.17	30.43 S	6.18 W	425,562.47	846,983.62	13.08	30.43	
11,864.00	45.90	178.72	8,530.05	11,809.05	52.79 S	5.74 W	425,540.11	846,984.06	9.74	52.79	
11,895.00	48.48	179.17	8,551.12	11,830.12	75.52 S	5.32 W	425,517.38	846,984.48	8.39	75.52	
11,927.00	48.52	179.71	8,572.32	11,851.32	99.49 S	5.09 W	425,493.41	846,984.71	1.27	99.49	
11,958.00	48.94	178.78	8,592.77	11,871.77	122.79 S	4.78 W	425,470.11	846,985.02	2.63	122.79	
11,989.00	52.19	179.26	8,612.46	11,891.46	146.72 S	4.37 W	425,446.18	846,985.43	10.55	146.72	
12,021.00	54.75	180.38	8,631.50	11,910.50	172.43 S	4.30 W	425,420.47	846,985.50	8.48	172.43	
12,053.00	58.30	180.06	8,649.15	11,928.15	199.12 S	4.40 W	425,393.78	846,985.40	11.13	199.12	
12,084.00	62.24	178.86	8,664.52	11,943.52	226.03 S	4.14 W	425,366.87	846,985.66	13.15	226.03	
12,115.00	65.63	178.02	8,678.14	11,957.14	253.87 S	3.38 W	425,339.03	846,986.42	11.20	253.86	
12,147.00	68.44	177.99	8,690.62	11,969.62	283.31 S	2.35 W	425,309.59	846,987.45	8.78	283.31	
12,179.00	71.42	178.16	8,701.60	11,980.60	313.34 S	1.34 W	425,279.56	846,988.46	9.33	313.34	
12,210.00	75.11	177.87	8,710.53	11,989.53	343.01 S	0.31 W	425,249.89	846,989.49	11.94	343.01	
12,241.00	77.00	177.43	8,718.00	11,997.00	373.07 S	0.92 E	425,219.83	846,990.72	6.25	373.07	
12,273.00	80.45	177.87	8,724.26	12,003.26	404.42 S	2.21 E	425,188.48	846,992.01	10.87	404.42	
12,304.00	82.99	177.72	8,728.72	12,007.72	435.07 S	3.39 E	425,157.83	846,993.19	8.21	435.07	
12,336.00	84.35	179.12	8,732.25	12,011.25	466.86 S	4.26 E	425,126.04	846,994.06	6.08	466.86	
12,368.00	87.58	179.66	8,734.50	12,013.50	498.78 S	4.60 E	425,094.12	846,994.40	10.23	498.78	
12,400.00	90.92	179.71	8,734.92	12,013.92	530.77 S	4.78 E	425,062.13	846,994.58	10.44	530.77	
12,431.00	91.23	179.71	8,734.34	12,013.34	561.76 S	4.93 E	425,031.14	846,994.73	1.00	561.77	
12,525.00	90.79	179.89	8,732.68	12,011.68	655.75 S	5.26 E	424,937.15	846,995.06	0.51	655.75	
12,620.00	90.49	179.39	8,731.62	12,010.62	750.74 S	5.86 E	424,842.16	846,995.66	0.61	750.74	
12,715.00	90.18	179.07	8,731.06	12,010.06	845.73 S	7.14 E	424,747.17	846,996.94	0.47	845.73	
12,810.00	90.62	178.90	8,730.40	12,009.40	940.71 S	8.82 E	424,652.19	846,998.62	0.50	940.72	
12,904.00	90.52	178.97	8,729.46	12,008.46	1,034.69 S	10.57 E	424,558.21	847,000.37	0.13	1,034.69	
12,999.00	90.65	178.91	8,728.49	12,007.49	1,129.67 S	12.32 E	424,463.23	847,002.12	0.15	1,129.67	
13,093.00	90.68	179.19	8,727.40	12,006.40	1,223.65 S	13.88 E	424,369.25	847,003.68	0.30	1,223.66	
13,187.00	90.18	178.99	8,726.70	12,005.70	1,317.64 S	15.37 E	424,275.26	847,005.17	0.57	1,317.64	
13,282.00	90.35	178.83	8,726.26	12,005.26	1,412.62 S	17.18 E	424,180.28	847,006.98	0.25	1,412.62	

Design Report for County Fair BTY State 1H - Final Surveys

Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	TVD below System (usft)	Vertical Depth (usft)	Local Coordinates		Map Coordinates		Dogleg Rate (°/100usft)	Vertical Section (usft)	Comments
					Northing (usft)	Easting (usft)	Northing (usft)	Easting (usft)			
13,375.00	90.44	178.83	8,725.62	12,004.62	1,505.60 S	19.08 E	424,087.30	847,008.88	0.10	1,505.60	
13,469.00	90.61	179.01	8,724.76	12,003.76	1,599.58 S	20.85 E	423,993.32	847,010.65	0.26	1,599.58	
13,564.00	90.44	179.01	8,723.89	12,002.89	1,694.56 S	22.49 E	423,898.34	847,012.29	0.18	1,694.56	
13,658.00	89.23	181.29	8,724.16	12,003.16	1,788.55 S	22.25 E	423,804.35	847,012.05	2.75	1,788.56	
13,752.00	89.20	181.28	8,725.44	12,004.44	1,882.52 S	20.14 E	423,710.38	847,009.94	0.03	1,882.52	
13,847.00	89.65	181.64	8,726.40	12,005.40	1,977.48 S	17.72 E	423,615.42	847,007.52	0.61	1,977.49	
13,941.00	89.60	181.36	8,727.01	12,006.01	2,071.45 S	15.26 E	423,521.45	847,005.06	0.30	2,071.45	
14,035.00	89.94	181.29	8,727.39	12,006.39	2,165.42 S	13.09 E	423,427.48	847,002.89	0.37	2,165.42	
14,129.00	89.72	180.91	8,727.67	12,006.67	2,259.40 S	11.28 E	423,333.50	847,001.08	0.47	2,259.41	
14,223.00	90.09	180.49	8,727.82	12,006.82	2,353.39 S	10.13 E	423,239.51	846,999.93	0.60	2,353.40	
14,317.00	90.89	180.74	8,727.02	12,006.02	2,447.38 S	9.12 E	423,145.52	846,998.92	0.89	2,447.39	
14,412.00	89.17	180.80	8,726.97	12,005.97	2,542.37 S	7.85 E	423,050.53	846,997.65	1.81	2,542.37	
14,508.00	89.66	180.50	8,727.95	12,006.95	2,638.36 S	6.76 E	422,954.54	846,996.56	0.60	2,638.36	
14,602.00	90.34	180.19	8,727.95	12,006.95	2,732.36 S	6.19 E	422,860.54	846,995.99	0.80	2,732.36	
14,697.00	90.77	180.06	8,727.03	12,006.03	2,827.35 S	5.98 E	422,765.55	846,995.78	0.47	2,827.36	
14,790.00	91.45	180.19	8,725.23	12,004.23	2,920.33 S	5.78 E	422,672.57	846,995.58	0.74	2,920.34	
14,885.00	89.65	179.89	8,724.32	12,003.32	3,015.33 S	5.72 E	422,577.57	846,995.52	1.92	3,015.33	
14,978.00	89.91	179.49	8,724.67	12,003.67	3,108.32 S	6.22 E	422,484.58	846,996.02	0.51	3,108.33	
15,073.00	89.66	179.35	8,725.03	12,004.03	3,203.32 S	7.18 E	422,389.58	846,996.98	0.30	3,203.32	
15,167.00	89.08	179.70	8,726.06	12,005.06	3,297.31 S	7.96 E	422,295.59	846,997.76	0.72	3,297.31	
15,262.00	89.41	179.54	8,727.32	12,006.32	3,392.30 S	8.59 E	422,200.60	846,998.39	0.39	3,392.30	
15,356.00	89.82	179.95	8,727.95	12,006.95	3,486.30 S	9.01 E	422,106.60	846,998.81	0.62	3,486.30	
15,454.00	89.82	179.69	8,728.26	12,007.26	3,584.29 S	9.32 E	422,008.61	846,999.12	0.27	3,584.30	
15,548.00	89.72	179.53	8,728.63	12,007.63	3,678.29 S	9.96 E	421,914.61	846,999.76	0.20	3,678.29	
15,643.00	89.41	179.79	8,729.35	12,008.35	3,773.29 S	10.52 E	421,819.61	847,000.32	0.43	3,773.29	
15,738.00	88.68	179.89	8,730.94	12,009.94	3,868.27 S	10.78 E	421,724.63	847,000.58	0.78	3,868.28	
15,832.00	89.30	179.89	8,732.59	12,011.59	3,962.26 S	10.97 E	421,630.64	847,000.77	0.66	3,962.26	
15,927.00	90.15	179.86	8,733.05	12,012.05	4,057.25 S	11.17 E	421,535.65	847,000.97	0.90	4,057.26	
16,021.00	90.53	180.24	8,732.49	12,011.49	4,151.25 S	11.09 E	421,441.65	847,000.89	0.57	4,151.26	
16,115.00	89.82	180.06	8,732.21	12,011.21	4,245.25 S	10.84 E	421,347.65	847,000.64	0.78	4,245.25	Last Sperry MWD Survey @ 16115MD
16,315.00	89.82	180.06	8,732.83	12,011.83	4,445.25 S	10.64 E	421,147.65	847,000.44	0.00	4,445.25	Projection to Bit, 16315MD/12011TVD

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
16,115.00	12,011.21	-4,245.25	10.84	Last Sperry MWD Survey @ 16115MD
16,315.00	12,011.83	-4,445.25	10.64	Projection to Bit, 16315MD/12011TVD

Design Report for County Fair BTY State 1H - Final Surveys

Vertical Section Information

Angle Type	Target	Azimuth (°)	Origin Type	Origin +N/-S (usft)	Origin +E/-W (usft)	Start TVD (usft)
User	No Target (Freehand)	179.98	Slot	0.00	0.00	0.00

Survey tool program

From (usft)	To (usft)	Survey/Plan	Survey Tool
111.00	16,115.00	MWD	MWD+SC
16,315.00	16,315.00	Projection to Bit	Blind (OWSG)

Design Targets

Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	()	()	()	()	()	()	()		
- Shape									
()									

Directional Difficulty Index

Average Dogleg over Survey:	1.25 °/100usft	Maximum Dogleg over Survey:	13.15 °/100usft at 12,084.00 usft
Net Tortousity applicable to Plans:	0.64 °/100usft	Directional Difficulty Index:	6.132

Audit Info

North Reference Sheet for County Fair BTY State - County Fair BTY State 1H - Wellbore #1

All data is in US Feet unless otherwise stated. Directions and Coordinates are relative to Grid North Reference.

Vertical Depths are relative to Plat @ 3279.00usft (GL3254'+25ft=3279ft (Precision 554)). Northing and Easting are relative to County Fair BTY State 1H

Coordinate System is US State Plane 1983, New Mexico Eastern Zone using datum North American Datum 1983, ellipsoid GRS 1980

Projection method is Transverse Mercator (Gauss-Kruger)

Central Meridian is 104° 20' 0.000 W", Longitude Origin:0° 0' 0.000 E", Latitude Origin:0° 0' 0.000 N"

False Easting: 541,337.50usft, False Northing: 0.00usft, Scale Reduction: 1.00001609

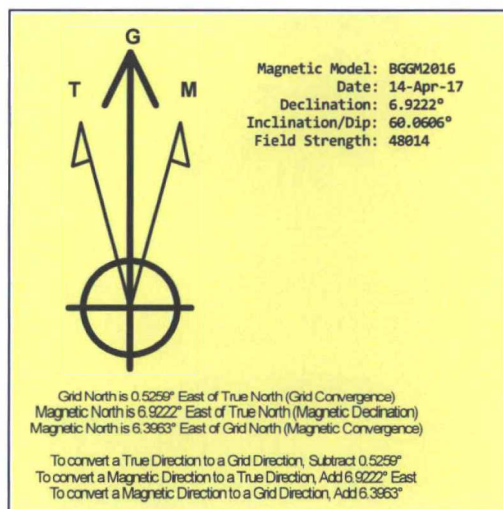
Grid Coordinates of Well: 425,592.90 usft N, 846,989.80 usft E

Geographical Coordinates of Well: 32° 09' 58.24" N, 103° 20' 44.00" W

Grid Convergence at Surface is: 0.5259°

Based upon Minimum Curvature type calculations, at a Measured Depth of 16,315.00usft
the Bottom Hole Displacement is 4,445.26usft in the Direction of 179.86° (Grid).

Magnetic Convergence at surface is: -6.4000° (14 April 2017, , BGGM2016)



Custom One Ene Creation #####

Project: Lea Cou NM (NAD 83)

Field: Lea Cou NM (N/ North Ref: Grid

Structur County I Job Nur

EPSG Pr North A New M Latitude: 32° 9' 58.2 Longitude 103° 20' 44.001 W

Wellhez County I Ground 3254 Kelly Bushi 3279

Profile: Final Sur Print Da ##### Vertical Sec 179.98 BHL TVC 12011.83

MD	Incl.	Azim.	Sub-Sea	TVD	Local N (	Local E (	Global N Cc	Global E Cc	Latitude	Longitude	Dogleg	Vertical Sec	Build	Turn
(ft)	Deg.	Deg.	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	DD:MM:SS.0	DD:MM:SS.000	(°/100ft)	(ft)	(°/100ft)	(°/100ft)
0	0	0	-3279	0	0	0	425592.9	846989.8	32° 9' 58.236	103° 20' 44.001	0	0	0	0
111	0.3	81.4	-3168	110.999	0.043	0.287	425592.9	846990.1	32° 9' 58.237	103° 20' 43.991	0.27	-0.04	0.27	0
258	0.5	38.7	-3021	257.996	0.602	1.069	425593.5	846990.9	32° 9' 58.242	103° 20' 43.988	0.235	-0.6	0.136	-29.048
386	0	104.6	-2893.01	385.995	1.037	1.418	425593.9	846991.2	32° 9' 58.246	103° 20' 43.984	0.391	-1.04	-0.391	0
546	0.4	304.6	-2733.01	545.993	1.355	0.958	425594.3	846990.8	32° 9' 58.249	103° 20' 43.989	0.25	-1.35	0.25	0
666	0.4	274.6	-2613.01	665.99	1.626	0.196	425594.5	846990	32° 9' 58.252	103° 20' 43.991	0.173	-1.63	0	-25
803	0.5	309.1	-2476.01	802.986	2.041	-0.745	425594.9	846989.1	32° 9' 58.256	103° 20' 44.009	0.207	-2.04	0.073	25.182
969	0.44	243	-2310.02	968.982	2.208	-1.874	425595.1	846987.9	32° 9' 58.258	103° 20' 44.021	0.311	-2.21	-0.036	-39.849
1061	0.44	242.8	-2218.02	1060.979	1.886	-2.503	425594.8	846987.3	32° 9' 58.259	103° 20' 44.029	0.001	-1.89	0	-0.141
1153	0.33	218	-2126.02	1152.977	1.516	-2.981	425594.4	846986.8	32° 9' 58.251	103° 20' 44.031	0.214	-1.52	-0.12	-26.978
1247	0.31	176.3	-2032.02	1246.976	1.049	-3.131	425593.9	846986.7	32° 9' 58.247	103° 20' 44.031	0.243	-1.05	-0.021	-44.404
1340	0.5	172.7	-1939.03	1339.973	0.396	-3.062	425593.3	846986.7	32° 9' 58.240	103° 20' 44.030	0.206	-0.4	0.204	-3.86
1434	0.48	183.2	-1845.03	1433.97	-0.404	-3.032	425592.5	846986.8	32° 9' 58.232	103° 20' 44.030	0.098	0.4	-0.021	11.213
1527	0.28	138.2	-1752.03	1526.968	-0.963	-2.902	425591.9	846986.9	32° 9' 58.227	103° 20' 44.034	0.371	0.96	-0.215	-48.398
1619	0.73	111.5	-1660.04	1618.964	-1.345	-2.207	425591.6	846987.6	32° 9' 58.223	103° 20' 44.020	0.539	1.34	0.489	-29.065
1711	1.06	121.4	-1568.05	1710.953	-2.003	-0.936	425590.9	846988.9	32° 9' 58.216	103° 20' 44.011	0.395	2	0.359	10.848
1803	1.45	117.2	-1476.07	1802.931	-2.979	0.826	425589.9	846990.6	32° 9' 58.207	103° 20' 43.991	0.435	2.98	0.424	-4.598
1896	1.45	118	-1383.1	1895.901	-4.069	2.911	425588.8	846992.7	32° 9' 58.196	103° 20' 43.961	0.02	4.07	0	0.806
1988	1.6	116.4	-1291.13	1987.869	-5.186	5.09	425587.7	846994.9	32° 9' 58.184	103° 20' 43.941	0.169	5.19	0.163	-1.696
2081	1.54	111	-1198.17	2080.834	-6.211	7.42	425586.7	846997.2	32° 9' 58.174	103° 20' 43.911	0.172	6.21	-0.065	-5.817
2173	1.95	108.2	-1106.21	2172.791	-7.143	10.06	425585.8	846999.9	32° 9' 58.165	103° 20' 43.884	0.455	7.15	0.446	-2.989
2265	1.07	83.75	-1014.24	2264.759	-7.54	12.401	425585.4	847002.2	32° 9' 58.160	103° 20' 43.851	1.166	7.54	-0.957	-26.62
2358	1.19	59.09	-921.259	2357.741	-6.949	14.093	425586	847003.9	32° 9' 58.166	103° 20' 43.831	0.534	6.95	0.129	-26.516

2450	1.49	48.68	-829.284	2449.716	-5.669	15.811	425587.2	847005.6	32° 9' 58.17"	103° 20' 43.81"	0.419	5.67	0.326	-11.315
2544	1.48	43.54	-735.315	2543.685	-3.982	17.565	425588.9	847007.4	32° 9' 58.19"	103° 20' 43.79"	0.142	3.99	-0.011	-5.468
2637	2.01	42.64	-642.359	2636.641	-1.911	19.497	425591	847009.3	32° 9' 58.21"	103° 20' 43.77"	0.571	1.92	0.57	-0.968
2730	1.57	355.6	-549.4	2729.6	0.559	20.503	425593.5	847010.3	32° 9' 58.24"	103° 20' 43.76"	1.597	-0.55	-0.473	-50.613
2824	2.14	332	-455.448	2823.552	3.392	19.579	425596.3	847009.4	32° 9' 58.26"	103° 20' 43.77"	1.002	-3.39	0.606	-25.106
2916	0.87	354.2	-363.481	2915.519	5.603	18.702	425598.5	847008.5	32° 9' 58.29"	103° 20' 43.78"	1.494	-5.6	-1.38	24.185
3008	1.04	67.33	-271.491	3007.509	6.62	19.402	425599.5	847009.2	32° 9' 58.30"	103° 20' 43.77"	1.245	-6.61	0.185	79.467
3100	2.95	59.58	-179.551	3099.449	8.14	22.214	425601	847012	32° 9' 58.31"	103° 20' 43.74"	2.092	-8.13	2.076	-8.424
3192	2.83	52.32	-87.667	3191.333	10.727	26.053	425603.6	847015.9	32° 9' 58.34"	103° 20' 43.69"	0.418	-10.72	-0.13	-7.891
3284	0.7	20.41	4.285	3283.285	12.643	28.046	425605.5	847017.8	32° 9' 58.35"	103° 20' 43.67"	2.463	-12.63	-2.315	-34.685
3376	1.37	24.77	96.27	3375.27	14.168	28.703	425607.1	847018.5	32° 9' 58.37"	103° 20' 43.66"	0.733	-14.16	0.728	4.739
3469	1.42	31.7	189.242	3468.242	16.158	29.775	425609.1	847019.6	32° 9' 58.39"	103° 20' 43.65"	0.189	-16.15	0.054	7.452
3561	0.8	341.1	281.226	3560.226	17.735	30.166	425610.6	847020	32° 9' 58.40"	103° 20' 43.64"	1.197	-17.72	-0.674	-54.967
3654	1.77	319.4	374.202	3653.202	19.441	29.022	425612.3	847018.8	32° 9' 58.42"	103° 20' 43.66"	1.149	-19.43	1.043	-23.323
3746	1.3	36.71	466.177	3745.177	21.357	28.722	425614.3	847018.5	32° 9' 58.44"	103° 20' 43.66"	2.121	-21.35	-0.511	83.989
3839	1.58	53.68	559.148	3838.148	22.962	30.385	425615.9	847020.2	32° 9' 58.46"	103° 20' 43.64"	0.545	-22.95	0.301	18.247
3931	2.11	57.19	651.1	3930.1	24.631	32.831	425617.5	847022.6	32° 9' 58.47"	103° 20' 43.61"	0.589	-24.62	0.576	3.815
4025	1.65	351.1	745.059	4024.059	26.906	34.076	425619.8	847023.9	32° 9' 58.49"	103° 20' 43.60"	2.219	-26.89	-0.489	-70.298
4118	2.05	332.3	838.012	4117.012	29.702	33.097	425622.6	847022.9	32° 9' 58.52"	103° 20' 43.61"	0.775	-29.69	0.43	-20.183
4211	2.34	317.5	930.944	4209.944	32.576	31.043	425625.5	847020.8	32° 9' 58.55"	103° 20' 43.63"	0.683	-32.56	0.312	-15.946
4304	0.47	197.5	1023.92	4302.92	33.612	29.645	425626.5	847019.4	32° 9' 58.56"	103° 20' 43.65"	2.803	-33.6	-2.011	-129.065
4396	1.36	111.3	1115.91	4394.91	32.856	30.549	425625.8	847020.3	32° 9' 58.55"	103° 20' 43.64"	1.532	-32.85	0.967	-93.685
4488	0.79	30.3	1207.897	4486.897	33.007	31.887	425625.9	847021.7	32° 9' 58.56"	103° 20' 43.62"	1.589	-33	-0.62	-88.033
4580	2.2	78.02	1299.866	4578.866	33.921	33.934	425626.8	847023.7	32° 9' 58.56"	103° 20' 43.60"	1.922	-33.91	1.533	51.87
4673	1.64	32.29	1392.819	4671.819	35.417	36.391	425628.3	847026.2	32° 9' 58.58"	103° 20' 43.57"	1.697	-35.4	-0.602	-49.172
4766	2.67	19.94	1485.752	4764.752	38.578	37.841	425631.5	847027.6	32° 9' 58.61"	103° 20' 43.55"	1.209	-38.56	1.108	-13.28
4860	1.44	3.95	1579.691	4858.691	41.815	38.669	425634.7	847028.5	32° 9' 58.64"	103° 20' 43.54"	1.431	-41.8	-1.309	-17.011
4953	1.09	312.8	1672.671	4951.671	43.582	38.101	425636.5	847027.9	32° 9' 58.66"	103° 20' 43.55"	1.222	-43.57	-0.376	-54.978
5046	1.96	316.2	1765.637	5044.637	45.331	36.351	425638.2	847026.2	32° 9' 58.68"	103° 20' 43.57"	0.94	-45.32	0.935	3.613
5140	2.02	317.5	1859.58	5138.58	47.712	34.119	425640.6	847023.9	32° 9' 58.70"	103° 20' 43.59"	0.081	-47.7	0.064	1.426
5240	1.98	311.6	1959.52	5238.52	50.158	31.636	425643.1	847021.4	32° 9' 58.73"	103° 20' 43.62"	0.211	-50.15	-0.04	-5.95
5289	1.9	314.1	2008.491	5287.491	51.286	30.42	425644.2	847020.2	32° 9' 58.74"	103° 20' 43.64"	0.241	-51.27	-0.163	5.224
5383	1.96	308.5	2102.438	5381.438	53.371	28.043	425646.3	847017.8	32° 9' 58.76"	103° 20' 43.66"	0.212	-53.36	0.064	-6
5478	2.07	311.6	2197.38	5476.38	55.521	25.488	425648.4	847015.3	32° 9' 58.78"	103° 20' 43.69"	0.163	-55.51	0.116	3.263

5572	1.96	310	2291.321	5570.321	57.681	22.988	425650.6	847012.8	32° 9' 58.80"	103° 20' 43.72"	0.131	-57.67	-0.117	-1.681
5667	1.87	307.8	2386.268	5665.268	59.676	20.518	425652.6	847010.3	32° 9' 58.82"	103° 20' 43.75"	0.123	-59.67	-0.095	-2.347
5761	1.93	303.7	2480.217	5759.217	61.494	17.989	425654.4	847007.8	32° 9' 58.84"	103° 20' 43.78"	0.157	-61.49	0.064	-4.319
5855	1.8	297.1	2574.167	5853.167	63.044	15.358	425655.9	847005.2	32° 9' 58.85"	103° 20' 43.81"	0.268	-63.04	-0.138	-7.074
5950	4.36	350.7	2669.037	5948.037	67.288	13.444	425660.2	847003.2	32° 9' 58.90"	103° 20' 43.83"	3.786	-67.28	2.695	56.432
6046	4	349.6	2764.782	6043.782	74.183	12.251	425667.1	847002.1	32° 9' 58.96"	103° 20' 43.85"	0.383	-74.18	-0.375	-1.083
6139	3.43	340.9	2857.587	6136.587	80.002	10.756	425672.9	847000.6	32° 9' 59.02"	103° 20' 43.86"	0.863	-80	-0.613	-9.419
6234	3.16	338.4	2952.43	6231.43	85.123	8.863	425678	846998.7	32° 9' 59.07"	103° 20' 43.88"	0.32	-85.12	-0.284	-2.568
6328	2.96	338	3046.296	6325.296	89.783	7.003	425682.7	846996.8	32° 9' 59.12"	103° 20' 43.90"	0.214	-89.78	-0.213	-0.447
6421	2.99	339.9	3139.17	6418.17	94.287	5.269	425687.2	846995.1	32° 9' 59.16"	103° 20' 43.92"	0.107	-94.28	0.032	1.968
6517	2.92	339	3235.043	6514.043	98.92	3.531	425691.8	846993.3	32° 9' 59.21"	103° 20' 43.94"	0.085	-98.92	-0.073	-0.854
6611	2.92	340.2	3328.92	6607.92	103.41	1.865	425696.3	846991.7	32° 9' 59.25"	103° 20' 43.96"	0.066	-103.41	0	1.287
6705	2.89	341.3	3422.8	6701.8	107.91	0.295	425700.8	846990.1	32° 9' 59.30"	103° 20' 43.98"	0.065	-107.91	-0.032	1.106
6800	2.86	345.8	3517.68	6796.68	112.47	-1.057	425705.4	846988.7	32° 9' 59.34"	103° 20' 44.00"	0.239	-112.47	-0.032	4.716
6894	2.72	345.8	3611.569	6890.569	116.91	-2.18	425709.8	846987.6	32° 9' 59.39"	103° 20' 44.01"	0.149	-116.91	-0.149	0.064
6988	2.46	343.6	3705.473	6984.473	121.01	-3.295	425713.9	846986.5	32° 9' 59.43"	103° 20' 44.02"	0.296	-121.01	-0.277	-2.319
7083	2.32	347.2	3800.39	7079.39	124.84	-4.295	425717.7	846985.5	32° 9' 59.47"	103° 20' 44.03"	0.215	-124.84	-0.147	3.747
7177	2.11	346.7	3894.32	7173.32	128.38	-5.115	425721.3	846984.7	32° 9' 59.50"	103° 20' 44.04"	0.224	-128.38	-0.223	-0.532
7271	2.08	345.7	3988.257	7267.257	131.71	-5.934	425724.6	846983.9	32° 9' 59.54"	103° 20' 44.05"	0.051	-131.72	-0.032	-1.074
7365	0.84	351.9	4082.225	7361.225	134.05	-6.453	425726.9	846983.3	32° 9' 59.56"	103° 20' 44.06"	1.328	-134.05	-1.319	6.638
7459	0.33	25.44	4176.22	7455.22	134.98	-6.433	425727.9	846983.4	32° 9' 59.57"	103° 20' 44.06"	0.631	-134.98	-0.543	35.649
7554	0.31	20.83	4271.218	7550.218	135.46	-6.224	425728.4	846983.6	32° 9' 59.57"	103° 20' 44.05"	0.034	-135.46	-0.021	-4.853
7648	0.14	63.33	4365.218	7644.218	135.75	-6.031	425728.7	846983.8	32° 9' 59.58"	103° 20' 44.05"	0.242	-135.75	-0.181	45.213
7742	1.14	99.2	4459.211	7738.211	135.65	-5.005	425728.6	846984.8	32° 9' 59.57"	103° 20' 44.04"	1.096	-135.66	1.064	38.16
7836	1.32	301.4	4553.203	7832.203	136.07	-5.007	425729	846984.8	32° 9' 59.58"	103° 20' 44.04"	2.569	-136.07	0.191	-167.926
7931	0.46	122	4648.196	7927.196	136.44	-5.618	425729.3	846984.2	32° 9' 59.58"	103° 20' 44.05"	1.874	-136.44	-0.905	-188.779
8025	0.93	120.4	4742.189	8021.189	135.85	-4.64	425728.7	846985.2	32° 9' 59.58"	103° 20' 44.04"	0.5	-135.85	0.5	-1.766
8119	1.54	121.5	4836.167	8115.167	134.8	-2.905	425727.7	846986.9	32° 9' 59.57"	103° 20' 44.02"	0.649	-134.8	0.649	1.266
8214	0.94	71.53	4931.147	8210.147	134.38	-1.078	425727.3	846988.7	32° 9' 59.56"	103° 20' 43.99"	1.243	-134.38	-0.632	-52.642
8308	1.17	78.95	5025.131	8304.131	134.81	0.595	425727.7	846990.4	32° 9' 59.57"	103° 20' 43.97"	0.284	-134.81	0.245	7.894
8402	0.94	94.53	5119.115	8398.115	134.93	2.306	425727.8	846992.1	32° 9' 59.57"	103° 20' 43.95"	0.389	-134.93	-0.245	16.574
8496	0.88	106.2	5213.103	8492.103	134.67	3.768	425727.6	846993.6	32° 9' 59.56"	103° 20' 43.94"	0.207	-134.67	-0.064	12.447
8591	1.05	115	5308.09	8587.09	134.1	5.257	425727	846995.1	32° 9' 59.56"	103° 20' 43.92"	0.236	-134.1	0.179	9.221
8685	1.31	102.3	5402.07	8681.07	133.51	7.087	425726.4	846996.9	32° 9' 59.55"	103° 20' 43.90"	0.39	-133.5	0.277	-13.468

8779	1.48	105.9	5496.042	8775.042	132.94	9.305	425725.8	846999.1	32° 9' 59.551	103° 20' 43.871	0.203	-132.94	0.181	3.787
8873	1.09	108.3	5590.018	8869.018	132.33	11.321	425725.2	847001.1	32° 9' 59.541	103° 20' 43.851	0.419	-132.33	-0.415	2.574
8967	0.62	120.2	5684.007	8963.007	131.79	12.609	425724.7	847002.4	32° 9' 59.531	103° 20' 43.841	0.532	-131.79	-0.5	12.638
9062	0.47	117.9	5779.003	9058.003	131.35	13.398	425724.3	847003.2	32° 9' 59.531	103° 20' 43.831	0.16	-131.35	-0.158	-2.442
9157	0.69	176	5873.999	9152.999	130.6	13.783	425723.5	847003.6	32° 9' 59.521	103° 20' 43.821	0.627	-130.6	0.232	61.158
9251	0.83	208	5967.991	9246.991	129.44	13.503	425722.3	847003.3	32° 9' 59.511	103° 20' 43.831	0.468	-129.43	0.149	34.043
9346	1.53	226.1	6062.971	9341.971	127.95	12.267	425720.8	847002.1	32° 9' 59.501	103° 20' 43.841	0.826	-127.94	0.737	19.074
9440	1.48	216.2	6156.938	9435.938	126.1	10.646	425719	847000.4	32° 9' 59.481	103° 20' 43.861	0.281	-126.09	-0.053	-10.532
9532	1.15	244.7	6248.915	9527.915	124.75	9.11	425717.6	846998.9	32° 9' 59.471	103° 20' 43.881	0.785	-124.74	-0.359	31.011
9623	1.31	275.3	6339.895	9618.895	124.45	7.248	425717.4	846997	32° 9' 59.461	103° 20' 43.901	0.732	-124.45	0.176	33.582
9713	1.42	281.5	6429.869	9708.869	124.77	5.131	425717.7	846994.9	32° 9' 59.471	103° 20' 43.921	0.205	-124.77	0.122	6.9
9805	2.37	289.5	6521.818	9800.818	125.63	2.22	425718.5	846992	32° 9' 59.471	103° 20' 43.961	1.069	-125.63	1.033	8.674
9896	2.99	284.1	6612.718	9891.718	126.83	-1.856	425719.7	846987.9	32° 9' 59.491	103° 20' 44.001	0.735	-126.83	0.681	-5.934
9988	3.21	251	6704.591	9983.591	126.58	-6.619	425719.5	846983.2	32° 9' 59.481	103° 20' 44.061	1.932	-126.58	0.239	-35.978
10078	1.53	222.3	6794.513	10073.51	124.87	-9.809	425717.8	846980	32° 9' 59.471	103° 20' 44.101	2.231	-124.87	-1.867	-31.911
10170	1.45	196.6	6886.483	10165.48	122.84	-10.97	425715.7	846978.8	32° 9' 59.451	103° 20' 44.111	0.724	-122.84	-0.087	-27.88
10260	1.03	156.3	6976.464	10255.46	121.01	-10.97	425713.9	846978.8	32° 9' 59.431	103° 20' 44.111	1.045	-121.01	-0.467	-44.733
10351	1.26	101.9	7067.448	10346.45	120.05	-9.661	425713	846980.1	32° 9' 59.421	103° 20' 44.101	1.173	-120.06	0.253	-59.868
10446	1.91	76.36	7162.412	10441.41	120.21	-7.1	425713.1	846982.7	32° 9' 59.421	103° 20' 44.071	0.994	-120.21	0.684	-26.842
10541	2.14	50.27	7257.355	10536.36	121.72	-4.197	425714.6	846985.6	32° 9' 59.441	103° 20' 44.031	0.991	-121.72	0.242	-27.463
10635	2.95	7.82	7351.269	10630.27	125.24	-2.518	425718.1	846987.3	32° 9' 59.471	103° 20' 44.011	2.118	-125.24	0.862	-45.16
10729	2.62	15.04	7445.158	10724.16	129.71	-1.632	425722.6	846988.2	32° 9' 59.521	103° 20' 44.001	0.512	-129.71	-0.351	7.681
10824	1.03	38.34	7540.108	10819.11	132.48	-0.538	425725.4	846989.3	32° 9' 59.541	103° 20' 43.991	1.814	-132.48	-1.674	24.526
10918	2.68	356.6	7634.059	10913.06	135.33	-0.147	425728.2	846989.7	32° 9' 59.571	103° 20' 43.981	2.161	-135.33	1.755	-44.457
11013	2.05	317.9	7728.983	11007.98	138.81	-1.419	425731.7	846988.4	32° 9' 59.611	103° 20' 44.001	1.762	-138.81	-0.663	-40.674
11108	2.94	282.6	7823.898	11102.9	140.6	-4.936	425733.5	846984.9	32° 9' 59.621	103° 20' 44.041	1.825	-140.6	0.937	-37.158
11202	1.3	316.1	7917.833	11196.83	141.9	-8.029	425734.8	846981.8	32° 9' 59.641	103° 20' 44.071	2.116	-141.9	-1.745	35.574
11297	1.68	257.8	8012.806	11291.81	142.38	-10.14	425735.3	846979.7	32° 9' 59.641	103° 20' 44.101	1.566	-142.38	0.4	-61.326
11328	1.77	246.6	8043.792	11322.79	142.09	-11.02	425735	846978.8	32° 9' 59.641	103° 20' 44.111	1.126	-142.1	0.29	-36.226
11360	4.13	205.3	8075.75	11354.75	140.85	-11.97	425733.8	846977.8	32° 9' 59.631	103° 20' 44.121	9.475	-140.86	7.375	-128.875
11391	6.68	186.6	8106.612	11385.61	138.05	-12.65	425731	846977.1	32° 9' 59.601	103° 20' 44.131	9.902	-138.06	8.226	-60.484
11423	8.68	177.5	8138.325	11417.33	133.79	-12.76	425726.7	846977	32° 9' 59.561	103° 20' 44.131	7.292	-133.79	6.25	-28.375
11454	11.06	176.4	8168.864	11447.86	128.49	-12.47	425721.4	846977.3	32° 9' 59.501	103° 20' 44.131	7.702	-128.49	7.677	-3.581
11486	13.18	178.2	8200.149	11479.15	121.78	-12.16	425714.7	846977.6	32° 9' 59.441	103° 20' 44.121	6.733	-121.78	6.625	5.75

11517	16.08	179.4	8230.141	11509.14	113.95	-12	425706.8	846977.8	32° 9' 59.36″	103° 20' 44.12″	9.4	-113.95	9.355	3.677
11549	18.8	179.1	8260.667	11539.67	104.36	-11.87	425697.3	846977.9	32° 9' 59.27″	103° 20' 44.12″	8.504	-104.36	8.5	-0.844
11580	20.8	177.6	8289.833	11568.83	93.864	-11.56	425686.8	846978.2	32° 9' 59.16″	103° 20' 44.12″	6.667	-93.87	6.452	-4.968
11612	22.47	177.2	8319.577	11598.58	82.079	-11.02	425675	846978.8	32° 9' 59.04″	103° 20' 44.12″	5.233	-82.08	5.219	-1.062
11643	24.26	176.5	8348.034	11627.03	69.804	-10.34	425662.7	846979.5	32° 9' 58.92″	103° 20' 44.11″	5.839	-69.81	5.774	-2.194
11675	25.7	178.1	8377.04	11656.04	56.306	-9.715	425649.2	846980.1	32° 9' 58.79″	103° 20' 44.10″	4.954	-56.31	4.5	4.906
11707	28.69	175.4	8405.501	11684.5	41.712	-8.862	425634.6	846980.9	32° 9' 58.65″	103° 20' 44.09″	10.133	-41.71	9.344	-8.594
11738	32.03	177.2	8432.246	11711.25	26.08	-7.854	425619	846981.9	32° 9' 58.49″	103° 20' 44.08″	11.179	-26.08	10.774	5.903
11769	34.94	178.5	8458.099	11737.1	8.991	-7.213	425601.9	846982.6	32° 9' 58.32″	103° 20' 44.08″	9.663	-8.99	9.387	4.161
11801	38.77	178.2	8483.699	11762.7	-10.19	-6.658	425582.7	846983.1	32° 9' 58.13″	103° 20' 44.07″	11.977	10.19	11.969	-0.75
11832	42.79	179	8507.168	11786.17	-30.43	-6.18	425562.5	846983.6	32° 9' 57.93″	103° 20' 44.07″	13.077	30.43	12.968	2.581
11864	45.9	178.7	8530.05	11809.05	-52.79	-5.739	425540.1	846984.1	32° 9' 57.71″	103° 20' 44.07″	9.742	52.79	9.719	-0.969
11895	48.48	179.2	8551.115	11830.12	-75.52	-5.322	425517.4	846984.5	32° 9' 57.48″	103° 20' 44.07″	8.39	75.52	8.323	1.452
11927	48.52	179.7	8572.319	11851.32	-99.49	-5.088	425493.4	846984.7	32° 9' 57.25″	103° 20' 44.07″	1.27	99.49	0.125	1.687
11958	48.94	178.8	8592.767	11871.77	-122.8	-4.781	425470.1	846985	32° 9' 57.02″	103° 20' 44.06″	2.631	122.79	1.355	-3
11989	52.19	179.3	8612.456	11891.46	-146.7	-4.373	425446.2	846985.4	32° 9' 56.78″	103° 20' 44.06″	10.552	146.72	10.484	1.548
12021	54.75	180.4	8631.502	11910.5	-172.4	-4.297	425420.5	846985.5	32° 9' 56.53″	103° 20' 44.06″	8.48	172.43	8	3.5
12053	58.3	180.1	8649.15	11928.15	-199.1	-4.398	425393.8	846985.4	32° 9' 56.26″	103° 20' 44.07″	11.125	199.12	11.094	-1
12084	62.24	178.9	8664.521	11943.52	-226	-4.139	425366.9	846985.7	32° 9' 56.00″	103° 20' 44.07″	13.146	226.03	12.71	-3.871
12115	65.63	178	8678.14	11957.14	-253.9	-3.378	425339	846986.4	32° 9' 55.72″	103° 20' 44.06″	11.203	253.86	10.935	-2.71
12147	68.44	178	8690.624	11969.62	-283.3	-2.352	425309.6	846987.4	32° 9' 55.43″	103° 20' 44.05″	8.782	283.31	8.781	-0.094
12179	71.42	178.2	8701.604	11980.6	-313.3	-1.343	425279.6	846988.5	32° 9' 55.13″	103° 20' 44.05″	9.326	313.34	9.312	0.531
12210	75.11	177.9	8710.529	11989.53	-343	-0.314	425249.9	846989.5	32° 9' 54.84″	103° 20' 44.04″	11.937	343.01	11.903	-0.935
12241	77	177.4	8717.999	11997	-373.1	0.92	425219.8	846990.7	32° 9' 54.54″	103° 20' 44.03″	6.25	373.07	6.097	-1.419
12273	80.45	177.9	8724.255	12003.26	-404.4	2.206	425188.5	846992	32° 9' 54.23″	103° 20' 44.01″	10.865	404.42	10.781	1.375
12304	82.99	177.7	8728.719	12007.72	-435.1	3.386	425157.8	846993.2	32° 9' 53.93″	103° 20' 44.00″	8.208	435.07	8.194	-0.484
12336	84.35	179.1	8732.247	12011.25	-466.9	4.263	425126	846994.1	32° 9' 53.61″	103° 20' 44.00″	6.08	466.86	4.25	4.375
12368	87.58	179.7	8734.499	12013.5	-498.8	4.602	425094.1	846994.4	32° 9' 53.30″	103° 20' 44.00″	10.233	498.78	10.094	1.687
12400	90.92	179.7	8734.918	12013.92	-530.8	4.778	425062.1	846994.6	32° 9' 52.98″	103° 20' 44.00″	10.439	530.77	10.437	0.156
12431	91.23	179.7	8734.336	12013.34	-561.8	4.935	425031.1	846994.7	32° 9' 52.67″	103° 20' 44.00″	1	561.77	1	0
12525	90.79	179.9	8732.679	12011.68	-655.7	5.263	424937.2	846995.1	32° 9' 51.74″	103° 20' 44.00″	0.506	655.75	-0.468	0.191
12620	90.49	179.4	8731.618	12010.62	-750.7	5.86	424842.2	846995.7	32° 9' 50.80″	103° 20' 44.01″	0.614	750.74	-0.316	-0.526
12715	90.18	179.1	8731.062	12010.06	-845.7	7.136	424747.2	846996.9	32° 9' 49.86″	103° 20' 44.00″	0.469	845.73	-0.326	-0.337
12810	90.62	178.9	8730.399	12009.4	-940.7	8.819	424652.2	846998.6	32° 9' 48.92″	103° 20' 43.99″	0.497	940.72	0.463	-0.179

12904	90.52	179	8729.464	12008.46	-1035	10.566	424558.2	847000.4	32° 9' 47.997	103° 20' 43.981	0.13	1034.69	-0.106	0.074
12999	90.65	178.9	8728.494	12007.49	-1130	12.324	424463.2	847002.1	32° 9' 47.057	103° 20' 43.971	0.151	1129.67	0.137	-0.063
13093	90.68	179.2	8727.403	12006.4	-1224	13.882	424369.2	847003.7	32° 9' 46.127	103° 20' 43.970	0.3	1223.66	0.032	0.298
13187	90.18	179	8726.698	12005.7	-1318	15.375	424275.3	847005.2	32° 9' 45.197	103° 20' 43.961	0.573	1317.64	-0.532	-0.213
13282	90.35	178.8	8726.258	12005.26	-1413	17.182	424180.3	847007	32° 9' 44.257	103° 20' 43.951	0.246	1412.62	0.179	-0.168
13375	90.44	178.8	8725.617	12004.62	-1506	19.081	424087.3	847008.9	32° 9' 43.337	103° 20' 43.931	0.097	1505.6	0.097	0
13469	90.61	179	8724.756	12003.76	-1600	20.853	423993.3	847010.7	32° 9' 42.407	103° 20' 43.921	0.263	1599.58	0.181	0.191
13564	90.44	179	8723.885	12002.89	-1695	22.494	423898.3	847012.3	32° 9' 41.467	103° 20' 43.920	0.179	1694.56	-0.179	0
13658	89.23	181.3	8724.156	12003.16	-1789	22.248	423804.4	847012	32° 9' 40.537	103° 20' 43.931	2.746	1788.56	-1.287	2.426
13752	89.2	181.3	8725.444	12004.44	-1883	20.14	423710.4	847009.9	32° 9' 39.607	103° 20' 43.961	0.034	1882.52	-0.032	-0.011
13847	89.65	181.6	8726.397	12005.4	-1977	17.72	423615.4	847007.5	32° 9' 38.668	103° 20' 44.000	0.607	1977.49	0.474	0.379
13941	89.6	181.4	8727.013	12006.01	-2071	15.259	423521.5	847005.1	32° 9' 37.738	103° 20' 44.040	0.303	2071.45	-0.053	-0.298
14035	89.94	181.3	8727.39	12006.39	-2165	13.086	423427.5	847002.9	32° 9' 36.809	103° 20' 44.071	0.369	2165.42	0.362	-0.074
14129	89.72	180.9	8727.669	12006.67	-2259	11.281	423333.5	847001.1	32° 9' 35.879	103° 20' 44.111	0.467	2259.41	-0.234	-0.404
14223	90.09	180.5	8727.825	12006.83	-2353	10.133	423239.5	846999.9	32° 9' 34.949	103° 20' 44.130	0.595	2353.4	0.394	-0.447
14317	90.89	180.7	8727.021	12006.02	-2447	9.124	423145.5	846998.9	32° 9' 34.019	103° 20' 44.150	0.892	2447.39	0.851	0.266
14412	89.17	180.8	8726.971	12005.97	-2542	7.847	423050.5	846997.6	32° 9' 33.079	103° 20' 44.181	1.812	2542.37	-1.811	0.063
14508	89.66	180.5	8727.951	12006.95	-2638	6.758	422954.5	846996.6	32° 9' 32.130	103° 20' 44.200	0.598	2638.36	0.51	-0.312
14602	90.34	180.2	8727.951	12006.95	-2732	6.192	422860.5	846996	32° 9' 31.200	103° 20' 44.220	0.795	2732.36	0.723	-0.33
14697	90.77	180.1	8727.031	12006.03	-2827	5.985	422765.5	846995.8	32° 9' 30.260	103° 20' 44.231	0.473	2827.36	0.453	-0.137
14790	91.45	180.2	8725.229	12004.23	-2920	5.782	422672.6	846995.6	32° 9' 29.340	103° 20' 44.241	0.744	2920.34	0.731	0.14
14885	89.65	179.9	8724.318	12003.32	-3015	5.716	422577.6	846995.5	32° 9' 28.400	103° 20' 44.250	1.921	3015.33	-1.895	-0.316
14978	89.91	179.5	8724.675	12003.68	-3108	6.219	422484.6	846996	32° 9' 27.480	103° 20' 44.260	0.513	3108.33	0.28	-0.43
15073	89.66	179.4	8725.031	12004.03	-3203	7.181	422389.6	846997	32° 9' 26.540	103° 20' 44.251	0.302	3203.32	-0.263	-0.147
15167	89.08	179.7	8726.065	12005.07	-3297	7.96	422295.6	846997.8	32° 9' 25.610	103° 20' 44.260	0.721	3297.31	-0.617	0.372
15262	89.41	179.5	8727.317	12006.32	-3392	8.59	422200.6	846998.4	32° 9' 24.670	103° 20' 44.261	0.386	3392.3	0.347	-0.168
15356	89.82	180	8727.948	12006.95	-3486	9.008	422106.6	846998.8	32° 9' 23.739	103° 20' 44.261	0.617	3486.3	0.436	0.436
15454	89.82	179.7	8728.256	12007.26	-3584	9.316	422008.6	846999.1	32° 9' 22.770	103° 20' 44.271	0.265	3584.3	0	-0.265
15548	89.72	179.5	8728.633	12007.63	-3678	9.956	421914.6	846999.8	32° 9' 21.840	103° 20' 44.271	0.201	3678.29	-0.106	-0.17
15643	89.41	179.8	8729.355	12008.36	-3773	10.52	421819.6	847000.3	32° 9' 20.900	103° 20' 44.281	0.426	3773.29	-0.326	0.274
15738	88.68	179.9	8730.938	12009.94	-3868	10.785	421724.6	847000.6	32° 9' 19.960	103° 20' 44.281	0.776	3868.28	-0.768	0.105
15832	89.3	179.9	8732.595	12011.6	-3962	10.965	421630.6	847000.8	32° 9' 19.030	103° 20' 44.290	0.66	3962.26	0.66	0
15927	90.15	179.9	8733.051	12012.05	-4057	11.173	421535.6	847001	32° 9' 18.090	103° 20' 44.300	0.895	4057.26	0.895	-0.032
16021	90.53	180.2	8732.493	12011.49	-4151	11.091	421441.6	847000.9	32° 9' 17.160	103° 20' 44.311	0.572	4151.26	0.404	0.404

16115	89.82	180.1	8732.206	12011.21	-4245	10.844	421347.6	847000.6	32° 9' 16.23"	103° 20' 44.32"	0.779	4245.25	-0.755	-0.191
16315	89.82	180.1	8732.834	12011.83	-4445	10.635	421147.7	847000.4	32° 9' 14.25"	103° 20' 44.35"	0	4445.25	0	0

Comment

First Sperry MWD Survey @ 111'MD

Last Sperry MWD Survey @ 16115'MD
Projection · 16315MD/12011TVD