

## 1 General

### 1.1 Customer Information

Company	PICEANCE VLY
Representative	
Address	

### 1.2 Well Information

Well	GM 422-26	Wellbore No.	
Well Name	GM 422-26	Common Name	GM 422-26
Project	GV 27-06S-096W	Site	MV 23-27 Pad
Vertical Section Azimuth	118.61 (°)	North Reference	True
Origin N/S		Origin E/W	
Spud Date	8/30/2011	UWI	GM 422-26
Active Datum	KB @5,794.0ft (above Mean Sea Level)		

## 2 Survey Name

### 2.1 Survey Name: Survey #1

Survey Name	Survey #1	Company	SCIENTIFIC
Date Started	8/31/2011	Ended	
Tool Name	MWD	Engineer	

#### 2.1.1 Tie On Point

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)
		92.99			

#### 2.1.2 Survey Stations

Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLS (°/100ft)	Build Rate (°/100ft)	Turn (°/100ft)	TFace (°)
8/30/2011	NORMAL	82.0	0.88	92.99	82.00	-0.03	0.63	0.57	1.07	1.07	0.00	92.99
	NORMAL	110.0	1.94	126.12	109.99	-0.32	1.23	1.23	4.63	3.79	118.32	54.91
	NORMAL	141.0	2.46	123.40	140.97	-1.00	2.21	2.41	1.71	1.68	-8.77	347.29
	NORMAL	171.0	3.52	123.75	170.92	-1.87	3.51	3.97	3.53	3.53	1.17	1.16
	NORMAL	202.0	3.96	118.92	201.86	-2.91	5.24	5.99	1.74	1.42	-15.58	321.97
	NORMAL	232.0	4.66	126.21	231.77	-4.13	7.13	8.24	2.96	2.33	24.30	41.72
	NORMAL	263.0	5.54	124.19	262.65	-5.72	9.38	10.97	2.90	2.84	-6.52	347.46
	NORMAL	293.0	6.51	121.55	292.48	-7.42	12.03	14.11	3.36	3.23	-8.80	342.74
	NORMAL	323.0	7.48	124.80	322.26	-9.43	15.08	17.75	3.49	3.23	10.83	23.82
	NORMAL	354.0	8.09	122.96	352.97	-11.76	18.57	21.93	2.13	1.97	-5.94	336.86
	NORMAL	384.0	8.89	117.69	382.65	-13.99	22.39	26.36	3.72	2.67	-17.57	313.17
	NORMAL	415.0	9.59	116.37	413.24	-16.25	26.83	31.33	2.36	2.26	-4.26	342.50
	NORMAL	445.0	10.56	116.98	442.78	-18.61	31.52	36.58	3.25	3.23	2.03	6.58
	NORMAL	475.0	11.61	118.04	472.22	-21.27	36.63	42.34	3.57	3.50	3.53	11.50
	NORMAL	505.0	12.76	116.98	501.54	-24.19	42.25	48.67	3.91	3.83	-3.53	348.47
	NORMAL	535.0	13.99	120.15	530.73	-27.52	48.34	55.61	4.77	4.10	10.57	32.35
8/31/2011	Tie On	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8/31/2011	NORMAL	566.0	14.87	118.83	560.75	-31.32	55.06	63.33	3.03	2.84	-4.26	338.86
	NORMAL	596.0	15.66	119.44	589.69	-35.17	61.96	71.23	2.69	2.63	2.03	11.79
	NORMAL	626.0	16.63	119.71	618.51	-39.28	69.21	79.57	3.24	3.23	0.90	4.56
	NORMAL	657.0	18.21	118.30	648.09	-43.78	77.33	88.85	5.28	5.10	-4.55	344.37

## 2.1.2 Survey Stations (Continued)

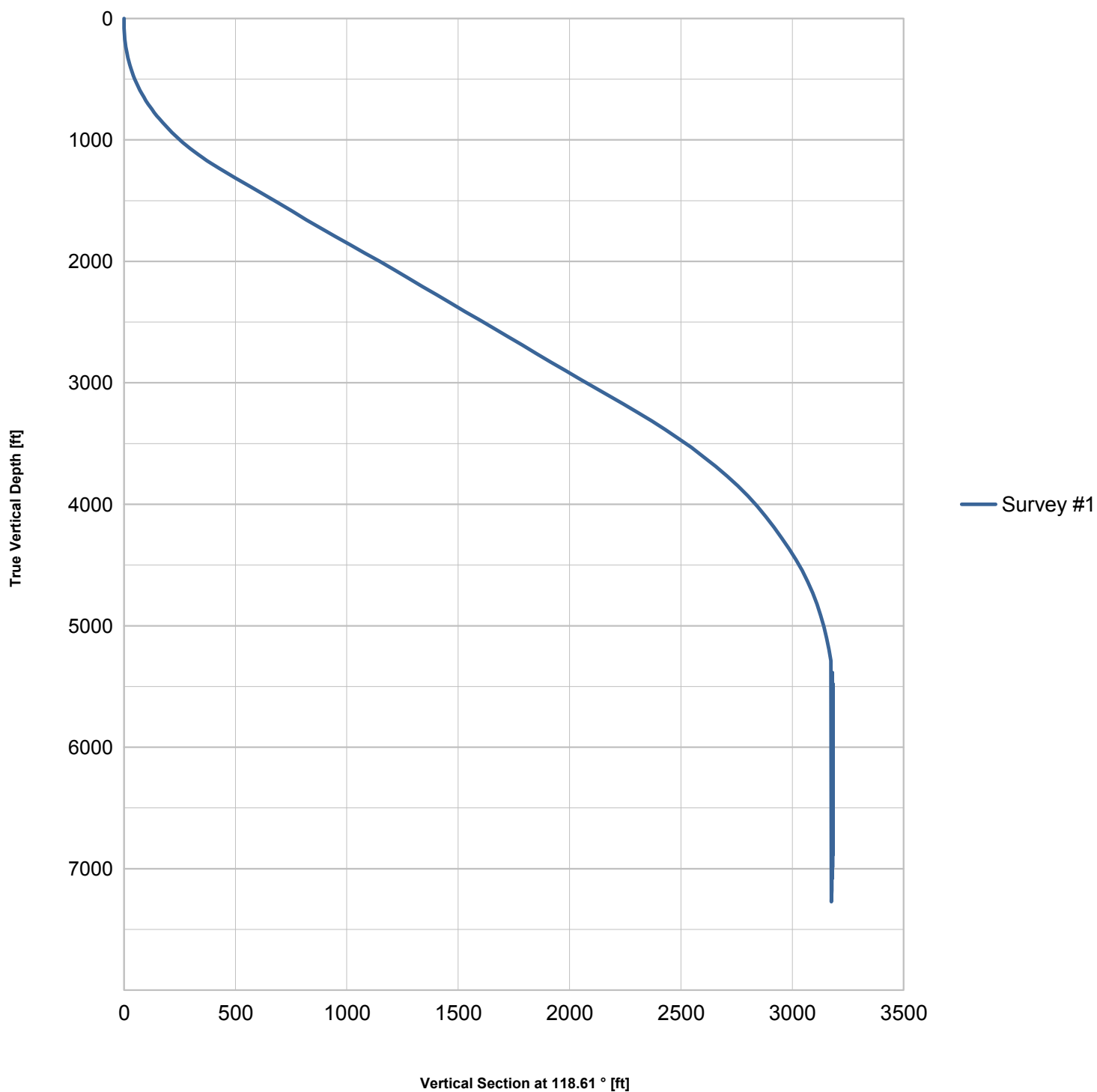
Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLS (°/100ft)	Build Rate (°/100ft)	Turn (°/100ft)	TFace (°)
8/31/2011	NORMAL	687.0	19.09	118.30	676.51	-48.33	85.78	98.45	2.93	2.93	0.00	0.00
	NORMAL	718.0	20.15	120.32	705.71	-53.43	94.85	108.85	4.06	3.42	6.52	33.57
	NORMAL	762.0	21.64	117.93	746.82	-61.05	108.56	124.54	3.90	3.39	-5.43	329.11
	NORMAL	792.0	22.84	118.40	774.59	-66.41	118.57	135.90	4.04	4.00	1.57	8.65
	NORMAL	822.0	24.01	117.42	802.11	-71.99	129.11	147.82	4.11	3.90	-3.27	341.13
	NORMAL	852.0	25.32	117.16	829.38	-77.73	140.24	160.34	4.38	4.37	-0.87	355.15
	NORMAL	882.0	25.94	117.86	856.42	-83.73	151.75	173.31	2.30	2.07	2.33	26.35
	NORMAL	913.0	26.73	119.09	884.21	-90.29	163.83	187.06	3.10	2.55	3.97	35.19
	NORMAL	944.0	27.79	119.97	911.76	-97.29	176.19	201.26	3.66	3.42	2.84	21.21
	NORMAL	974.0	28.58	119.00	938.21	-104.26	188.52	215.43	3.04	2.63	-3.23	329.46
	NORMAL	1,005.0	29.90	118.21	965.26	-111.51	201.82	230.57	4.44	4.26	-2.55	343.36
	NORMAL	1,036.0	31.22	117.68	991.95	-118.89	215.74	246.33	4.35	4.26	-1.71	348.23
	NORMAL	1,067.0	32.18	117.33	1,018.32	-126.41	230.19	262.61	3.15	3.10	-1.13	349.01
	NORMAL	1,098.0	33.50	117.95	1,044.37	-134.21	245.08	279.42	4.39	4.26	2.00	14.55
	NORMAL	1,129.0	34.73	118.21	1,070.03	-142.40	260.42	296.81	4.00	3.97	0.84	6.87
	NORMAL	1,159.0	35.88	118.30	1,094.52	-150.60	275.69	314.15	3.84	3.83	0.30	2.63
	NORMAL	1,192.0	36.84	119.00	1,121.09	-159.99	292.86	333.71	3.17	2.91	2.12	23.66
	NORMAL	1,223.0	37.72	118.83	1,145.76	-169.06	309.29	352.49	2.86	2.84	-0.55	353.26
	NORMAL	1,254.0	38.69	118.48	1,170.12	-178.26	326.12	371.66	3.21	3.13	-1.13	347.28
	NORMAL	1,286.0	40.19	118.21	1,194.83	-187.91	344.01	391.99	4.72	4.69	-0.84	353.37
	NORMAL	1,341.0	42.74	118.83	1,236.04	-205.30	376.00	428.40	4.70	4.64	1.13	9.38
9/1/2011	NORMAL	1,444.0	43.02	118.34	1,311.52	-238.83	437.55	498.49	0.42	0.27	-0.48	309.84
	NORMAL	1,539.0	43.37	116.77	1,380.78	-268.91	495.20	563.50	1.19	0.37	-1.65	287.47
	NORMAL	1,633.0	43.50	117.71	1,449.04	-298.49	552.66	628.11	0.70	0.14	1.00	78.97
	NORMAL	1,727.0	42.74	119.35	1,517.65	-329.17	609.10	692.35	1.44	-0.81	1.74	124.73
	NORMAL	1,822.0	41.09	118.59	1,588.34	-359.91	664.62	755.81	1.82	-1.74	-0.80	196.82
	NORMAL	1,916.0	42.86	118.28	1,658.22	-389.84	719.90	818.68	1.90	1.88	-0.33	353.20
	NORMAL	2,011.0	43.79	120.41	1,727.33	-421.79	776.71	883.85	1.82	0.98	2.24	58.31
	NORMAL	2,105.0	43.76	121.61	1,795.21	-455.30	832.44	948.82	0.88	-0.03	1.28	92.50
	NORMAL	2,200.0	43.84	119.86	1,863.78	-488.90	888.96	1,014.52	1.28	0.08	-1.84	273.15
	NORMAL	2,294.0	44.54	117.28	1,931.19	-520.22	946.50	1,080.03	2.05	0.74	-2.74	290.34
	NORMAL	2,389.0	43.81	117.50	1,999.32	-550.67	1,005.27	1,146.22	0.79	-0.77	0.23	168.22
	NORMAL	2,483.0	42.82	115.75	2,067.72	-579.58	1,062.91	1,210.66	1.66	-1.05	-1.86	229.86
	NORMAL	2,577.0	42.82	118.21	2,136.67	-608.56	1,119.84	1,274.51	1.78	0.00	2.62	90.90
	NORMAL	2,672.0	43.05	117.99	2,206.22	-639.04	1,176.92	1,339.22	0.29	0.24	-0.23	326.83
	NORMAL	2,767.0	42.92	119.33	2,275.72	-670.10	1,233.76	1,403.99	0.97	-0.14	1.41	98.59
	NORMAL	2,861.0	42.22	118.68	2,344.94	-700.94	1,289.37	1,467.58	0.88	-0.74	-0.69	211.90
	NORMAL	2,956.0	43.34	118.06	2,414.67	-731.59	1,346.14	1,532.10	1.26	1.18	-0.65	339.17
9/2/2011	NORMAL	3,050.0	43.47	119.37	2,482.96	-762.62	1,402.79	1,596.69	0.97	0.14	1.39	82.26
	NORMAL	3,145.0	43.08	120.01	2,552.13	-794.88	1,459.36	1,661.80	0.62	-0.41	0.67	131.87
	NORMAL	3,239.0	42.55	118.67	2,621.09	-826.18	1,515.05	1,725.67	1.12	-0.56	-1.43	239.31
	NORMAL	3,334.0	42.62	119.27	2,691.03	-857.32	1,571.29	1,789.96	0.43	0.07	0.63	80.44
	NORMAL	3,428.0	42.08	119.07	2,760.50	-888.18	1,626.58	1,853.28	0.59	-0.57	-0.21	193.94
	NORMAL	3,522.0	42.70	117.96	2,829.93	-918.43	1,682.27	1,916.65	1.03	0.66	-1.18	309.23
	NORMAL	3,617.0	43.08	118.12	2,899.53	-948.83	1,739.33	1,981.30	0.42	0.40	0.17	16.05
	NORMAL	3,711.0	42.95	118.68	2,968.26	-979.33	1,795.74	2,045.43	0.43	-0.14	0.60	109.00
	NORMAL	3,806.0	44.03	117.71	3,037.18	-1,010.21	1,853.36	2,110.80	1.34	1.14	-1.02	327.93
	NORMAL	3,900.0	43.62	118.52	3,105.00	-1,040.88	1,910.77	2,175.89	0.74	-0.44	0.86	126.46
	NORMAL	3,995.0	43.53	117.25	3,173.83	-1,071.51	1,968.65	2,241.37	0.93	-0.09	-1.34	263.67
	NORMAL	4,089.0	42.45	118.12	3,242.59	-1,101.28	2,025.41	2,305.45	1.31	-1.15	0.93	151.54
	NORMAL	4,184.0	41.24	118.39	3,313.36	-1,131.28	2,081.24	2,368.82	1.29	-1.27	0.28	171.63
	NORMAL	4,278.0	39.63	117.91	3,384.90	-1,160.05	2,134.99	2,429.79	1.74	-1.71	-0.51	190.76
	NORMAL	4,373.0	38.56	116.71	3,458.63	-1,187.54	2,188.21	2,489.68	1.38	-1.13	-1.26	214.80
	NORMAL	4,467.0	36.98	116.80	3,532.93	-1,213.46	2,239.62	2,547.22	1.68	-1.68	0.10	178.04
	NORMAL	4,562.0	34.42	118.26	3,610.08	-1,239.06	2,288.78	2,602.64	2.84	-2.69	1.54	162.18
	NORMAL	4,656.0	34.00	117.25	3,687.81	-1,263.67	2,335.55	2,655.48	0.75	-0.45	-1.07	233.10
	NORMAL	4,751.0	32.02	118.48	3,767.47	-1,287.84	2,381.30	2,707.22	2.20	-2.08	1.29	161.82

## 2.1.2 Survey Stations (Continued)

Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLS (°/100ft)	Build Rate (°/100ft)	Turn (°/100ft)	TFace (°)
9/2/2011	NORMAL	4,845.0	29.57	118.53	3,848.21	-1,310.81	2,423.59	2,755.34	2.61	-2.61	0.05	179.42
	NORMAL	4,940.0	27.00	117.95	3,931.86	-1,332.12	2,463.24	2,800.36	2.72	-2.71	-0.61	185.85
9/3/2011	NORMAL	5,034.0	25.85	118.04	4,016.04	-1,351.75	2,500.18	2,842.19	1.22	-1.22	0.10	178.05
	NORMAL	5,129.0	22.91	115.94	4,102.56	-1,369.58	2,535.10	2,881.38	3.23	-3.09	-2.21	195.47
	NORMAL	5,223.0	22.51	117.95	4,189.28	-1,386.02	2,567.44	2,917.65	0.93	-0.43	2.14	118.19
	NORMAL	5,318.0	20.58	117.14	4,277.63	-1,402.16	2,598.37	2,952.52	2.06	-2.03	-0.85	188.39
	NORMAL	5,412.0	20.15	117.93	4,365.76	-1,417.28	2,627.38	2,985.23	0.54	-0.46	0.84	147.78
	NORMAL	5,507.0	17.71	119.79	4,455.62	-1,432.12	2,654.38	3,016.04	2.65	-2.57	1.96	166.99
	NORMAL	5,601.0	16.94	119.22	4,545.35	-1,445.91	2,678.74	3,044.03	0.84	-0.82	-0.61	192.16
	NORMAL	5,696.0	14.41	116.77	4,636.81	-1,457.99	2,701.38	3,069.69	2.75	-2.66	-2.58	193.49
	NORMAL	5,791.0	12.13	121.29	4,729.27	-1,468.50	2,720.46	3,091.48	2.64	-2.40	4.76	157.72
9/4/2011	NORMAL	5,885.0	11.14	121.89	4,821.34	-1,478.43	2,736.61	3,110.41	1.06	-1.05	0.64	173.33
	NORMAL	5,979.0	9.48	120.28	4,913.82	-1,487.13	2,751.01	3,127.21	1.79	-1.77	-1.71	189.06
	NORMAL	6,074.0	8.09	114.26	5,007.70	-1,493.82	2,763.86	3,141.70	1.75	-1.46	-6.34	210.53
	NORMAL	6,169.0	7.14	122.32	5,101.87	-1,499.73	2,774.94	3,154.26	1.50	-1.00	8.48	135.60
	NORMAL	6,263.0	6.00	127.94	5,195.25	-1,505.87	2,783.76	3,164.94	1.39	-1.21	5.98	153.35
	NORMAL	6,357.0	4.80	117.69	5,288.83	-1,510.72	2,791.11	3,173.72	1.63	-1.28	-10.90	213.77
	NORMAL	6,452.0	2.35	95.65	5,383.64	-1,512.76	2,796.57	3,179.49	2.91	-2.58	-23.20	198.60
	NORMAL	6,546.0	0.88	75.23	5,477.60	-1,512.76	2,799.19	3,181.78	1.66	-1.56	-21.72	191.38
	NORMAL	6,641.0	0.77	359.12	5,572.60	-1,511.94	2,799.88	3,182.00	1.07	-0.12	-80.12	227.08
	NORMAL	6,735.0	0.79	333.72	5,666.59	-1,510.73	2,799.59	3,181.16	0.37	0.02	-27.02	260.56
	NORMAL	6,829.0	0.79	304.28	5,760.58	-1,509.78	2,798.76	3,179.98	0.43	0.00	-31.32	255.28
	NORMAL	6,924.0	1.06	305.68	5,855.57	-1,508.90	2,797.51	3,178.46	0.29	0.28	1.47	5.49
9/5/2011	NORMAL	7,018.0	0.30	59.43	5,949.56	-1,508.27	2,797.01	3,177.72	1.29	-0.81	121.01	166.91
	NORMAL	7,113.0	0.89	99.48	6,044.56	-1,508.26	2,797.96	3,178.55	0.72	0.62	42.16	56.34
	NORMAL	7,207.0	0.95	134.16	6,138.55	-1,508.93	2,799.24	3,179.99	0.59	0.06	36.89	101.38
	NORMAL	7,302.0	1.24	151.37	6,233.53	-1,510.38	2,800.29	3,181.61	0.46	0.31	18.12	57.41
	NORMAL	7,396.0	1.06	226.58	6,327.51	-1,511.87	2,800.15	3,182.20	1.50	-0.19	80.01	133.40
9/6/2011	NORMAL	7,491.0	1.14	236.16	6,422.50	-1,513.00	2,798.73	3,181.49	0.21	0.08	10.08	71.33
	NORMAL	7,585.0	1.45	213.26	6,516.47	-1,514.51	2,797.30	3,180.96	0.64	0.33	-24.36	289.14
	NORMAL	7,679.0	1.67	221.04	6,610.44	-1,516.54	2,795.75	3,180.57	0.32	0.23	8.28	47.84
	NORMAL	7,774.0	1.53	205.40	6,705.40	-1,518.73	2,794.29	3,180.34	0.48	-0.15	-16.46	244.51
	NORMAL	7,868.0	1.65	192.99	6,799.37	-1,521.18	2,793.45	3,180.78	0.39	0.13	-13.20	282.94
	NORMAL	7,963.0	1.15	204.50	6,894.34	-1,523.38	2,792.75	3,181.22	0.60	-0.53	12.12	156.32
	NORMAL	8,058.0	1.55	239.51	6,989.31	-1,524.90	2,791.24	3,180.62	0.94	0.42	36.85	82.34
	NORMAL	8,152.0	1.83	244.67	7,083.27	-1,526.19	2,788.79	3,179.09	0.34	0.30	5.49	31.12
	NORMAL	8,246.0	2.51	235.36	7,177.20	-1,528.00	2,785.74	3,177.28	0.81	0.72	-9.90	327.89
	NORMAL	8,282.0	2.34	227.88	7,213.17	-1,528.94	2,784.55	3,176.68	1.00	-0.47	-20.78	238.06
	NORMAL	8,340.0	2.34	227.88	7,271.12	-1,530.53	2,782.79	3,175.90	0.00	0.00	0.00	0.00

### 3 Charts

#### 3.1 Vertical Section View



### 3.2 Plan View

