

## 1 General

### 1.1 Customer Information

Company	PICEANCE VLY
Representative	
Address	

### 1.2 Well Information

Well	SG 22-23	Wellbore No.	
Well Name	SG 22-23	Common Name	SG 22-23
Project	SG 23-07S-096W	Site	GV 18-23 Pad
Vertical Section Azimuth	150.57 (°)	North Reference	
Origin N/S		Origin E/W	
Spud Date	2/7/2012	UWI	SG 22-23
Active Datum	KB @5,158.0ft (above Mean Sea Level)		

## 2 Survey Name

### 2.1 Survey Name: Survey #1

Survey Name	Survey #1	Company	
Date Started	2/7/2012	Ended	
Tool Name	MWD	Engineer	

#### 2.1.1 Tie On Point

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)
0.0	0.00	0.00	0.00	0.00	0.00

#### 2.1.2 Survey Stations

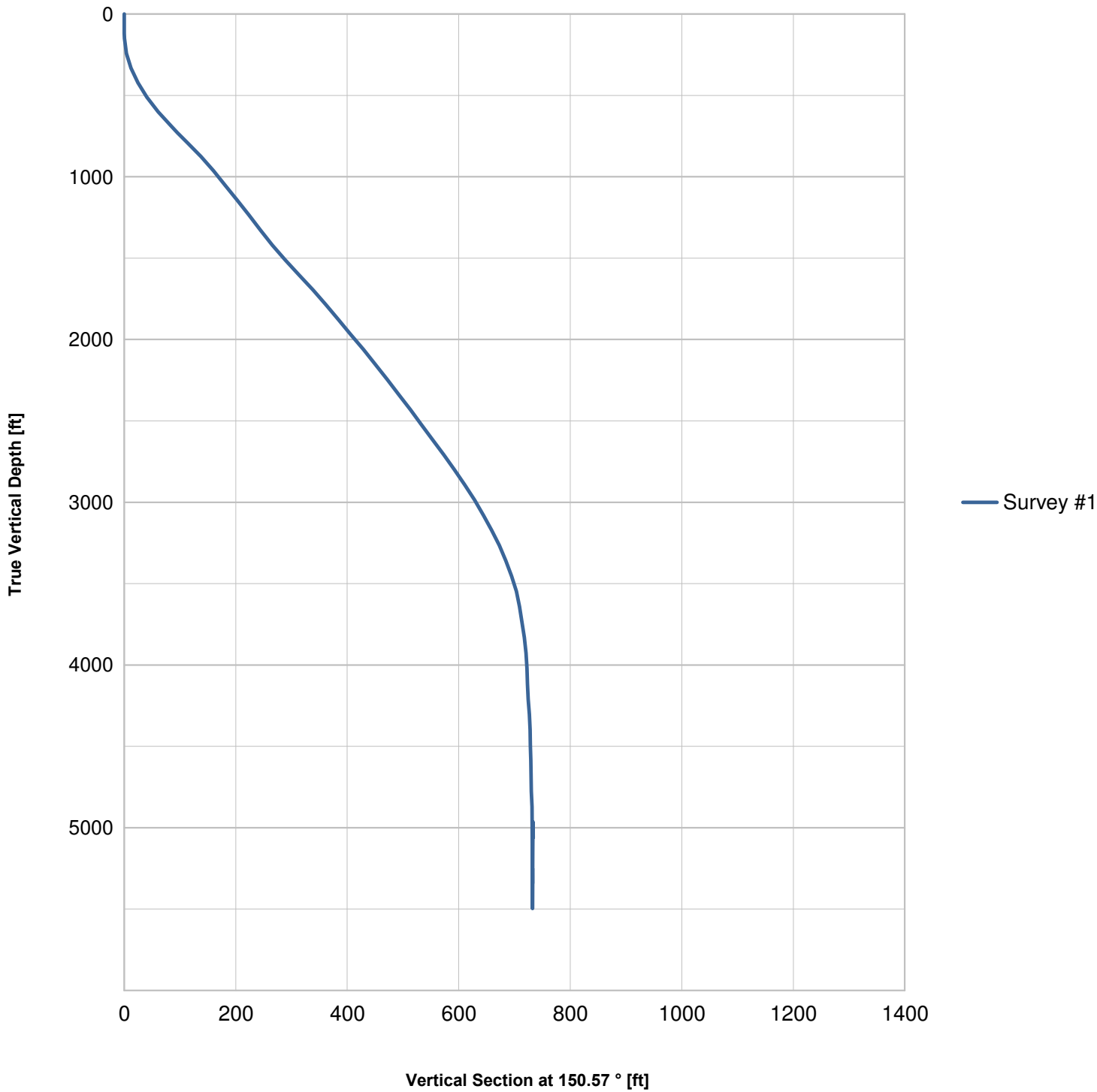
Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLS (°/100ft)	Build Rate (°/100ft)	Turn (°/100ft)	TFace (°)
2/7/2012	Tie On	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/7/2012	NORMAL	120.0	0.35	205.80	120.00	-0.33	-0.16	0.21	0.29	0.29	0.00	205.80
	NORMAL	151.0	1.06	137.30	151.00	-0.63	-0.01	0.54	3.18	2.29	-220.97	272.24
	NORMAL	242.0	3.43	152.70	241.92	-3.66	1.81	4.08	2.66	2.60	16.92	22.06
	NORMAL	333.0	6.51	146.90	332.57	-10.41	5.88	11.95	3.43	3.38	-6.37	347.84
	NORMAL	424.0	9.24	145.20	422.70	-20.73	12.87	24.38	3.01	3.00	-1.87	354.28
	NORMAL	514.0	11.44	153.54	511.24	-34.66	20.97	40.49	2.95	2.44	9.27	38.38
	NORMAL	605.0	14.34	151.61	599.94	-52.65	30.35	60.77	3.22	3.19	-2.12	350.61
	NORMAL	696.0	15.40	151.26	687.89	-73.16	41.52	84.12	1.17	1.16	-0.38	354.99
	NORMAL	738.0	16.19	149.33	728.30	-83.09	47.19	95.55	2.26	1.88	-4.60	325.45
2/9/2012	NORMAL	801.0	16.20	148.50	788.80	-98.13	56.26	113.12	0.37	0.02	-1.32	272.07
	NORMAL	892.0	15.20	155.50	876.42	-119.82	67.84	137.69	2.35	-1.10	7.69	121.17
	NORMAL	982.0	13.40	154.10	963.62	-139.94	77.29	159.85	2.04	-2.00	-1.56	190.20
	NORMAL	1,073.0	13.40	148.50	1,052.15	-158.41	87.41	180.92	1.43	0.00	-6.15	267.28
	NORMAL	1,168.0	13.10	149.90	1,144.62	-177.11	98.56	202.68	0.46	-0.32	1.47	133.75
	NORMAL	1,262.0	13.00	149.70	1,236.19	-195.46	109.23	223.91	0.12	-0.11	-0.21	204.21
	NORMAL	1,357.0	12.20	150.60	1,328.90	-213.43	119.55	244.63	0.87	-0.84	0.95	166.65
	NORMAL	1,451.0	13.60	147.90	1,420.53	-231.44	130.30	265.60	1.62	1.49	-2.87	335.39
	NORMAL	1,546.0	15.00	150.10	1,512.59	-251.56	142.37	289.05	1.58	1.47	2.32	22.28
	NORMAL	1,641.0	15.40	150.90	1,604.26	-273.24	154.63	313.96	0.48	0.42	0.84	28.06
	NORMAL	1,735.0	14.60	150.90	1,695.06	-294.50	166.46	338.29	0.85	-0.85	0.00	180.00

## 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 (°)
2/9/2012	NORMAL	1,830.0	13.90	151.60	1,787.13	-315.00	177.71	361.67	0.76	-0.74	0.74	166.51
	NORMAL	1,924.0	13.90	150.60	1,878.38	-334.77	188.62	384.25	0.26	0.00	-1.06	269.51
	NORMAL	2,019.0	13.70	150.60	1,970.64	-354.51	199.75	406.91	0.21	-0.21	0.00	180.00
	NORMAL	2,113.0	13.50	149.00	2,062.00	-373.62	210.86	429.01	0.45	-0.21	-1.70	241.23
	NORMAL	2,208.0	12.80	151.10	2,154.51	-392.33	221.66	450.62	0.89	-0.74	2.21	146.71
	NORMAL	2,302.0	12.80	151.40	2,246.18	-410.59	231.68	471.44	0.07	0.00	0.32	90.15
	NORMAL	2,397.0	12.80	151.60	2,338.82	-429.09	241.72	492.49	0.05	0.00	0.21	90.10
	NORMAL	2,491.0	12.40	151.40	2,430.55	-447.11	251.50	512.99	0.43	-0.43	-0.21	186.13
	NORMAL	2,586.0	12.10	152.20	2,523.39	-464.87	261.03	533.14	0.36	-0.32	0.84	150.89
	NORMAL	2,680.0	12.10	149.90	2,615.30	-482.11	270.57	552.84	0.51	0.00	-2.45	268.88
	NORMAL	2,775.0	12.10	150.20	2,708.19	-499.36	280.51	572.76	0.07	0.00	0.32	90.15
	NORMAL	2,869.0	11.90	152.70	2,800.14	-516.53	289.85	592.29	0.59	-0.21	2.66	112.27
	NORMAL	2,963.0	10.90	149.00	2,892.28	-532.76	298.87	610.86	1.32	-1.06	-3.94	214.38
	NORMAL	3,058.0	10.20	150.20	2,985.68	-547.76	307.68	628.25	0.77	-0.74	1.26	163.16
	NORMAL	3,153.0	9.20	150.40	3,079.32	-561.66	315.61	644.26	1.05	-1.05	0.21	178.17
	NORMAL	3,247.0	8.40	151.10	3,172.21	-574.20	322.64	658.64	0.86	-0.85	0.74	172.72
	NORMAL	3,342.0	8.60	142.70	3,266.17	-585.93	330.30	672.61	1.32	0.21	-8.84	274.98
	NORMAL	3,436.0	6.30	140.00	3,359.37	-595.47	337.87	684.65	2.47	-2.45	-2.87	187.32
	NORMAL	3,531.0	6.30	140.60	3,453.80	-603.49	344.53	694.91	0.07	0.00	0.63	90.30
	NORMAL	3,625.0	4.40	140.90	3,547.38	-610.28	350.08	703.54	2.02	-2.02	0.32	179.31
2/10/2012	NORMAL	3,720.0	2.50	145.50	3,642.21	-614.81	353.55	709.20	2.02	-2.00	4.84	174.00
	NORMAL	3,814.0	2.60	149.90	3,736.11	-618.35	355.78	713.37	0.23	0.11	4.68	65.15
	NORMAL	3,909.0	2.50	134.60	3,831.02	-621.67	358.34	717.52	0.72	-0.11	-16.11	254.05
	NORMAL	4,004.0	2.50	97.70	3,925.94	-623.40	361.87	720.76	1.67	0.00	-38.84	251.57
	NORMAL	4,098.0	0.90	95.40	4,019.89	-623.74	364.64	722.42	1.70	-1.70	-2.45	181.29
	NORMAL	4,193.0	0.60	136.90	4,114.88	-624.18	365.72	723.33	0.63	-0.32	43.68	138.58
	NORMAL	4,287.0	1.10	172.70	4,208.87	-625.43	366.17	724.64	0.75	0.53	38.09	65.58
	NORMAL	4,382.0	1.60	196.60	4,303.85	-627.61	365.91	726.41	0.78	0.53	25.16	60.76
	NORMAL	4,476.0	1.10	211.40	4,397.82	-629.63	365.06	727.76	0.64	-0.53	15.74	152.36
	NORMAL	4,571.0	1.10	220.90	4,492.81	-631.10	363.99	728.51	0.19	0.00	10.00	94.75
	NORMAL	4,665.0	2.00	231.40	4,586.77	-632.81	362.12	729.08	1.00	0.96	11.17	22.81
	NORMAL	4,760.0	0.60	225.60	4,681.74	-634.19	360.46	729.47	1.48	-1.47	-6.11	182.47
	NORMAL	4,854.0	0.70	197.90	4,775.74	-635.08	359.94	729.99	0.35	0.11	-29.47	273.48
	NORMAL	4,949.0	1.60	187.80	4,870.72	-636.95	359.58	731.43	0.97	0.95	-10.63	342.23
	NORMAL	5,043.0	1.30	208.90	4,964.69	-639.18	358.89	733.04	0.65	-0.32	22.45	129.60
	NORMAL	5,138.0	0.70	271.90	5,059.68	-640.10	357.78	733.30	1.22	-0.63	66.32	147.58
	NORMAL	5,232.0	1.20	264.30	5,153.66	-640.18	356.23	732.61	0.55	0.53	-8.09	342.04
	NORMAL	5,327.0	1.10	250.10	5,248.64	-640.59	354.38	732.06	0.32	-0.11	-14.95	243.66
	NORMAL	5,421.0	1.50	234.80	5,342.62	-641.61	352.53	732.03	0.56	0.43	-16.28	311.23
	NORMAL	5,530.0	1.70	237.20	5,451.58	-643.31	350.01	732.27	0.19	0.18	2.20	19.73
2/12/2012	NORMAL	5,575.0	1.70	237.20	5,496.56	-644.03	348.88	732.35	0.00	0.00	0.00	0.00

3 Charts

3.1 Vertical Section View



3.2 Plan View

