

1 General

1.1 Customer Information

Company	PICEANCE VLY
Representative	
Address	

1.2 Well Information

Well	SG 423-27	Wellbore No.	
Well Name	SG 423-27	Common Name	SG 423-27
Project	SG 27-07S-096W	Site	SG 24-27 Pad
Vertical Section Azimuth	2.76 (°)	North Reference	True
Origin N/S		Origin E/W	
Spud Date	4/19/2012	UWI	SG 423-27
Active Datum	KB @5,038.0ft (above Mean Sea Level)		

2 Survey Name

2.1 Survey Name: Survey #1

Survey Name	Survey #1	Company	
Date Started	4/19/2012	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

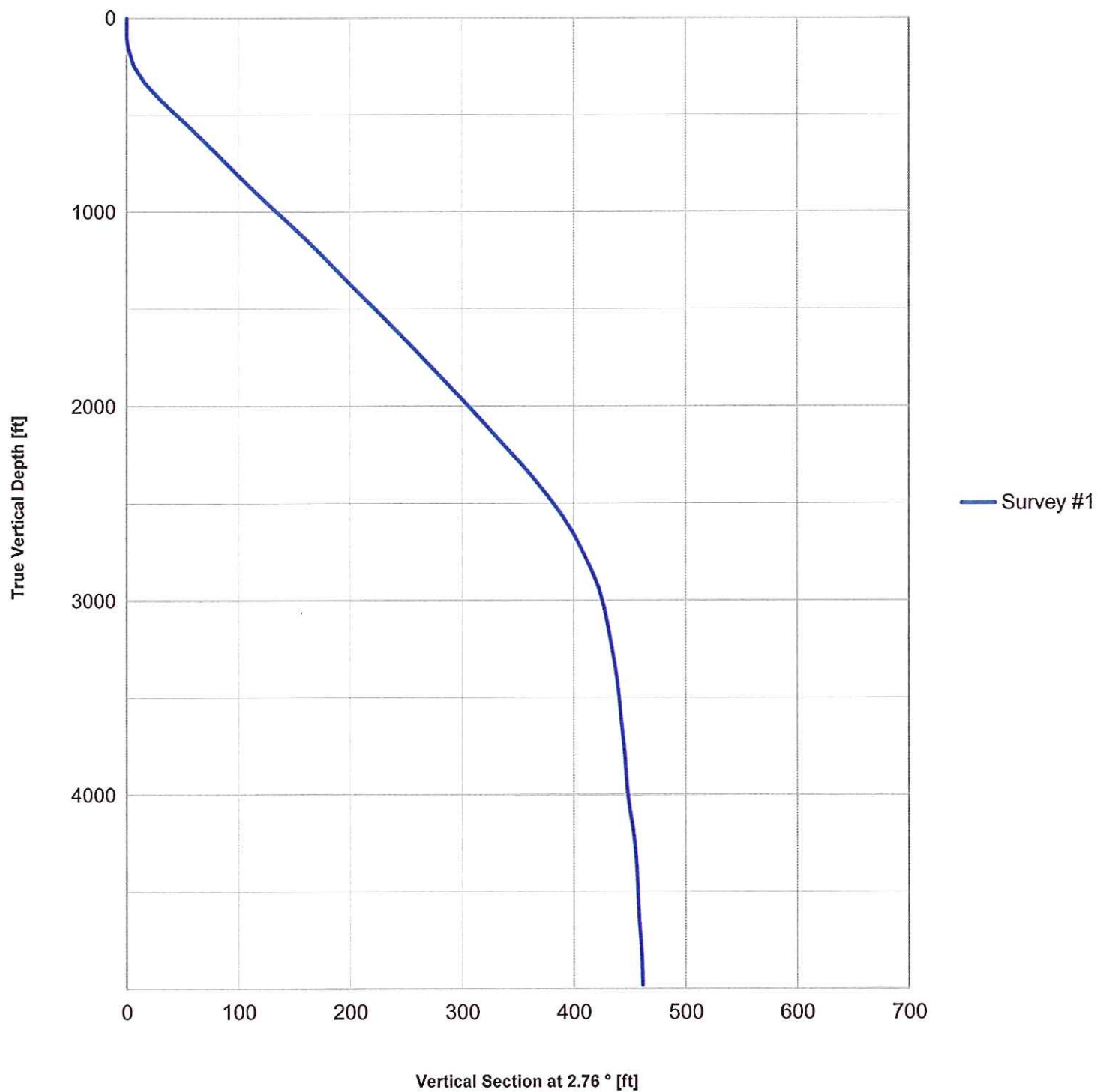
Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLS (°/100ft)	Buidl Rate (°/100ft)	Turn (°/100ft)	TFace (°)
4/19/2012	Tie On	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/19/2012	NORMAL	71.0	0.09	19.42	71.00	0.05	0.02	0.05	0.13	0.13	0.00	19.42
	NORMAL	92.0	0.44	1.76	92.00	0.15	0.03	0.15	1.69	1.67	-84.10	337.93
	NORMAL	123.0	1.14	6.33	123.00	0.57	0.06	0.58	2.27	2.26	14.74	7.43
	NORMAL	153.0	1.50	7.65	152.99	1.26	0.15	1.27	1.20	1.20	4.40	5.49
	NORMAL	245.0	4.66	355.17	244.84	6.18	-0.01	6.17	3.49	3.43	-13.57	341.74
	NORMAL	336.0	8.09	358.86	335.27	16.27	-0.44	16.23	3.79	3.77	4.05	8.65
	NORMAL	427.0	10.38	0.44	425.08	30.87	-0.51	30.81	2.53	2.52	1.74	7.10
	NORMAL	517.0	10.03	5.19	513.66	46.78	0.26	46.74	1.01	-0.39	5.28	114.91
	NORMAL	558.0	10.29	5.10	554.02	53.98	0.91	53.97	0.64	0.63	-0.22	356.46
	NORMAL	696.0	10.11	5.31	689.84	78.32	3.13	78.38	0.13	-0.13	0.15	168.43
	NORMAL	787.0	9.49	5.37	779.51	93.74	4.57	93.85	0.68	-0.68	0.07	179.09
	NORMAL	878.0	10.40	4.49	869.14	109.40	5.91	109.56	1.01	1.00	-0.97	350.08
	NORMAL	970.0	10.61	6.38	959.60	126.10	7.51	126.31	0.44	0.23	2.05	59.57
	NORMAL	1,065.0	10.87	1.35	1,052.94	143.74	8.69	144.00	1.02	0.27	-5.29	283.02
	NORMAL	1,161.0	9.73	0.05	1,147.39	160.91	8.91	161.15	1.21	-1.19	-1.35	190.89
	NORMAL	1,256.0	9.84	4.22	1,241.01	177.03	9.51	177.28	0.75	0.12	4.39	83.24
4/20/2012	NORMAL	1,351.0	9.93	6.12	1,334.60	193.27	10.98	193.57	0.36	0.09	2.00	75.51
	NORMAL	1,447.0	9.79	5.96	1,429.18	209.62	12.71	209.99	0.15	-0.15	-0.17	190.99
	NORMAL	1,542.0	9.88	7.33	1,522.78	225.73	14.59	226.18	0.26	0.09	1.44	69.64
	NORMAL	1,637.0	9.65	3.68	1,616.41	241.76	16.14	242.26	0.70	-0.24	-3.84	247.83

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 (°)
4/20/2012	NORMAL	1,732.0	9.38	2.57	1,710.10	257.44	17.00	257.96	0.34	-0.28	-1.17	213.65
	NORMAL	1,827.0	9.47	1.75	1,803.82	272.99	17.59	273.52	0.17	0.09	-0.86	303.43
	NORMAL	1,922.0	9.36	359.57	1,897.54	288.53	17.77	289.05	0.39	-0.12	-2.29	251.78
	NORMAL	2,018.0	9.34	358.84	1,992.26	304.12	17.55	304.61	0.13	-0.02	-0.76	260.07
	NORMAL	2,113.0	8.88	354.37	2,086.07	319.13	16.68	319.56	0.89	-0.48	-4.71	234.78
	NORMAL	2,208.0	9.06	0.85	2,179.91	333.90	16.07	334.29	1.08	0.19	6.82	83.11
	NORMAL	2,303.0	8.98	1.61	2,273.73	348.79	16.39	349.18	0.15	-0.08	0.80	124.25
	NORMAL	2,397.0	8.29	1.97	2,366.67	362.90	16.83	363.29	0.74	-0.73	0.38	175.70
	NORMAL	2,491.0	7.62	0.59	2,459.76	375.90	17.12	376.29	0.74	-0.71	-1.47	195.23
	NORMAL	2,586.0	7.24	359.67	2,553.96	388.19	17.15	388.56	0.42	-0.40	-0.97	196.93
	NORMAL	2,682.0	5.42	359.67	2,649.37	398.77	17.09	399.13	1.90	-1.90	0.00	180.00
	NORMAL	2,777.0	4.87	356.30	2,743.99	407.28	16.81	407.62	0.66	-0.58	-3.55	207.12
	NORMAL	2,873.0	4.88	353.54	2,839.64	415.41	16.08	415.70	0.24	0.01	-2.88	271.07
	NORMAL	2,968.0	3.16	10.57	2,934.41	422.00	16.11	422.28	2.18	-1.81	17.93	153.53
	NORMAL	3,063.0	2.40	6.10	3,029.30	426.55	16.80	426.86	0.83	-0.80	-4.71	193.70
	NORMAL	3,158.0	1.87	6.60	3,124.23	430.07	17.19	430.39	0.56	-0.56	0.53	178.24
	NORMAL	3,253.0	1.76	2.28	3,219.18	433.06	17.43	433.40	0.18	-0.12	-4.55	229.06
	NORMAL	3,348.0	1.76	21.35	3,314.14	435.88	18.02	436.24	0.61	0.00	20.07	99.53
	NORMAL	3,444.0	1.41	5.36	3,410.10	438.43	18.66	438.82	0.58	-0.36	-16.66	223.83
	NORMAL	3,539.0	1.04	350.08	3,505.08	440.44	18.62	440.83	0.52	-0.39	-16.08	213.97
	NORMAL	3,634.0	0.79	356.09	3,600.07	441.94	18.43	442.32	0.28	-0.26	6.33	161.99
	NORMAL	3,729.0	1.31	14.28	3,695.05	443.65	18.65	444.03	0.64	0.55	19.15	41.97
	NORMAL	3,825.0	0.79	14.59	3,791.04	445.35	19.09	445.76	0.54	-0.54	0.32	179.53
	NORMAL	3,920.0	0.57	332.64	3,886.03	446.41	19.04	446.81	0.56	-0.23	-44.16	226.15
	NORMAL	4,015.0	1.01	25.27	3,981.02	447.58	19.18	447.99	0.85	0.46	55.40	86.93
	NORMAL	4,111.0	2.02	34.19	4,076.99	449.75	20.49	450.21	1.08	1.05	9.29	17.63
	NORMAL	4,206.0	1.86	38.08	4,171.93	452.35	22.38	452.90	0.22	-0.17	4.09	142.48
4/21/2012	NORMAL	4,301.0	1.14	40.16	4,266.90	454.28	23.94	454.91	0.76	-0.76	2.19	176.71
	NORMAL	4,396.0	0.83	49.61	4,361.89	455.45	25.08	456.13	0.37	-0.33	9.95	157.01
	NORMAL	4,491.0	0.44	40.61	4,456.88	456.17	25.84	456.89	0.42	-0.41	-9.47	189.87
	NORMAL	4,586.0	0.47	11.84	4,551.88	456.83	26.16	457.56	0.24	0.03	-30.28	262.94
	NORMAL	4,681.0	0.65	357.36	4,646.87	457.75	26.21	458.48	0.24	0.19	-15.24	314.44
	NORMAL	4,777.0	0.79	10.34	4,742.87	458.95	26.31	459.68	0.22	0.15	13.52	55.97
	NORMAL	4,872.0	0.55	345.34	4,837.86	460.03	26.31	460.77	0.39	-0.25	-26.32	218.57
	NORMAL	4,954.0	0.47	308.10	4,919.86	460.62	25.94	461.34	0.41	-0.10	-45.41	238.28
	NORMAL	5,014.0	0.41	280.85	4,979.85	460.81	25.54	461.51	0.36	-0.10	-45.42	240.66

3 Charts

3.1 Vertical Section View



3.2 Plan View

