

1 General

1.1 Customer Information

Company	PICEANCE VLY
Representative	
Address	

1.2 Well Information

Well	SG 442-22	Wellbore No.	00
Well Name	SG 442-22	Common Name	SG 442-22
Project	SG 22-07S-096W	Site	SG 42-22 Pad
Vertical Section Azimuth	229.27 (°)	North Reference	True
Origin N/S		Origin E/W	
Spud Date	7/3/2013	UWI	SG 442-22
Active Datum	KB @5,243.0ft (above Mean Sea Level)		

2 Survey Name

2.1 Survey Name: Survey #1

Survey Name	Survey #1	Company	Scientific Drilling
Date Started	7/3/2013	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

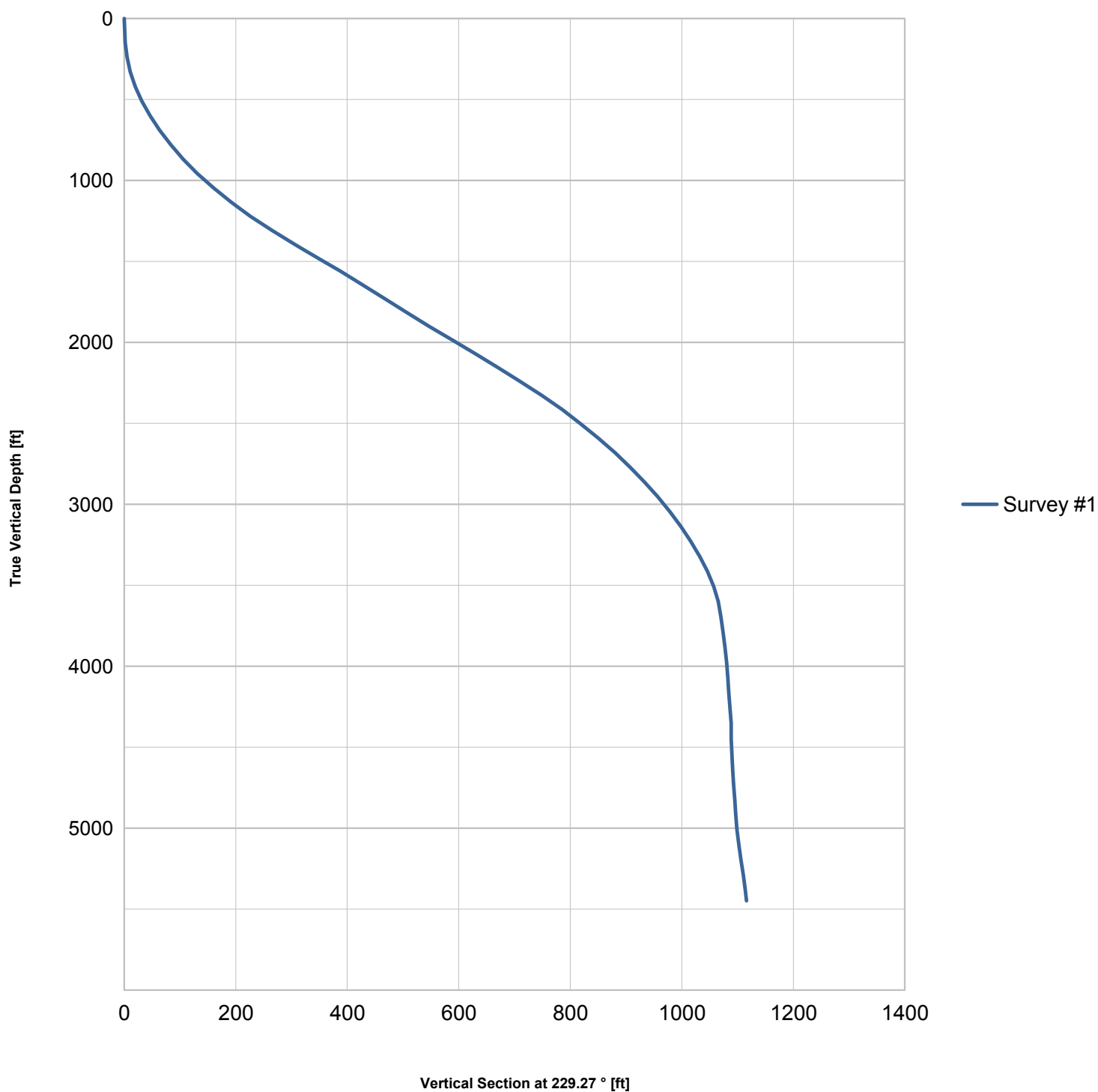
Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLS (°/100ft)	Build Rate (°/100ft)	Turn (°/100ft)	TFace (°)
7/3/2013	Tie On	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/2013	NORMAL	148.0	1.47	229.08	147.98	-1.24	-1.43	1.90	0.99	0.99	0.00	229.08
	NORMAL	239.0	2.68	233.92	238.92	-3.26	-4.04	5.19	1.34	1.33	5.32	10.66
	NORMAL	330.0	4.61	231.01	329.73	-6.82	-8.60	10.96	2.13	2.12	-3.20	353.07
	NORMAL	421.0	6.57	224.47	420.30	-12.83	-15.09	19.81	2.26	2.15	-7.19	338.72
	NORMAL	511.0	8.61	225.85	509.50	-21.20	-23.53	31.66	2.28	2.27	1.53	5.79
	NORMAL	603.0	9.93	230.23	600.30	-31.07	-34.57	46.47	1.63	1.43	4.76	30.30
	NORMAL	695.0	11.81	231.01	690.65	-42.07	-47.98	63.81	2.05	2.04	0.85	4.86
	NORMAL	787.0	13.19	230.46	780.46	-54.68	-63.40	83.72	1.51	1.50	-0.60	354.80
	NORMAL	878.0	14.88	228.59	868.75	-69.02	-80.17	105.78	1.92	1.86	-2.05	344.07
	NORMAL	970.0	17.02	227.87	957.20	-85.86	-99.02	131.06	2.34	2.33	-0.78	354.37
	NORMAL	1,065.0	19.11	228.13	1,047.51	-105.57	-120.91	160.51	2.20	2.20	0.27	2.33
	NORMAL	1,159.0	20.51	230.13	1,135.95	-126.40	-145.01	192.36	1.65	1.49	2.13	26.78
	NORMAL	1,252.0	22.98	229.56	1,222.32	-148.62	-171.33	226.81	2.67	2.66	-0.61	354.85
	NORMAL	1,346.0	24.73	228.31	1,308.29	-173.60	-199.98	264.82	1.94	1.86	-1.33	343.31
	NORMAL	1,441.0	25.94	228.09	1,394.15	-200.70	-230.29	305.47	1.28	1.27	-0.23	355.45
	NORMAL	1,470.0	26.47	227.83	1,420.17	-209.28	-239.80	318.27	1.87	1.83	-0.90	347.66
7/5/2013	NORMAL	1,562.0	26.46	228.17	1,502.53	-236.71	-270.27	359.26	0.17	-0.01	0.37	93.93
	NORMAL	1,624.0	25.44	226.59	1,558.28	-255.07	-290.23	386.37	1.99	-1.65	-2.55	213.42
	NORMAL	1,720.0	25.30	229.64	1,645.02	-282.53	-320.84	427.48	1.37	-0.15	3.18	97.49
	NORMAL	1,814.0	24.83	232.17	1,730.17	-307.64	-351.74	467.28	1.24	-0.50	2.69	114.82

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 (°)
7/5/2013	NORMAL	1,909.0	24.45	229.85	1,816.53	-332.55	-382.52	506.86	1.09	-0.40	-2.44	247.50
	NORMAL	2,004.0	26.07	232.54	1,902.44	-357.93	-414.12	547.37	2.09	1.71	2.83	36.54
	NORMAL	2,097.0	26.29	231.78	1,985.90	-383.10	-446.52	588.34	0.43	0.24	-0.82	302.93
	NORMAL	2,192.0	25.50	228.03	2,071.37	-409.79	-478.26	629.81	1.91	-0.83	-3.95	242.57
	NORMAL	2,285.0	25.33	228.30	2,155.37	-436.41	-508.00	669.71	0.22	-0.18	0.29	145.84
	NORMAL	2,381.0	24.75	227.86	2,242.34	-463.56	-538.23	710.34	0.63	-0.60	-0.46	197.60
	NORMAL	2,475.0	23.87	228.76	2,328.01	-489.30	-567.12	749.03	1.02	-0.94	0.96	157.58
	NORMAL	2,569.0	21.75	233.06	2,414.66	-512.31	-595.35	785.43	2.87	-2.26	4.57	143.79
	NORMAL	2,663.0	19.61	230.20	2,502.60	-532.88	-621.39	818.59	2.52	-2.28	-3.04	203.93
	NORMAL	2,757.0	19.55	229.65	2,591.16	-553.16	-645.50	850.09	0.21	-0.06	-0.59	251.71
	NORMAL	2,852.0	17.41	233.71	2,681.26	-571.86	-669.07	880.15	2.63	-2.25	4.27	150.89
	NORMAL	2,947.0	16.20	232.75	2,772.21	-588.30	-691.08	907.55	1.31	-1.27	-1.01	192.46
	NORMAL	3,041.0	15.37	229.98	2,862.66	-604.24	-711.05	933.10	1.19	-0.88	-2.95	220.91
	NORMAL	3,135.0	13.75	229.73	2,953.64	-619.48	-729.12	956.73	1.72	-1.72	-0.27	182.10
	NORMAL	3,229.0	12.95	228.82	3,045.10	-633.63	-745.57	978.43	0.88	-0.85	-0.97	194.27
	NORMAL	3,323.0	11.45	237.62	3,136.98	-645.57	-761.38	998.20	2.54	-1.60	9.36	133.14
7/6/2013	NORMAL	3,417.0	10.48	230.79	3,229.27	-655.97	-775.88	1,015.98	1.72	-1.03	-7.27	229.93
	NORMAL	3,512.0	9.22	226.52	3,322.87	-666.67	-788.10	1,032.22	1.53	-1.33	-4.49	208.01
	NORMAL	3,605.0	7.77	235.15	3,414.85	-675.39	-798.67	1,045.91	2.07	-1.56	9.28	142.89
	NORMAL	3,698.0	6.07	225.72	3,507.17	-682.41	-807.35	1,057.07	2.19	-1.83	-10.14	209.14
	NORMAL	3,791.0	4.11	224.73	3,599.80	-688.21	-813.22	1,065.31	2.11	-2.11	-1.06	182.07
	NORMAL	3,886.0	2.00	205.94	3,694.66	-692.12	-816.34	1,070.22	2.43	-2.22	-19.78	196.21
	NORMAL	3,980.0	2.72	213.81	3,788.58	-695.45	-818.30	1,073.88	0.84	0.77	8.37	28.20
	NORMAL	4,074.0	1.86	213.96	3,882.50	-698.57	-820.39	1,077.50	0.91	-0.91	0.16	179.68
	NORMAL	4,168.0	2.20	187.76	3,976.45	-701.62	-821.48	1,080.32	1.04	0.36	-27.87	276.70
	NORMAL	4,262.0	1.11	220.16	4,070.41	-704.11	-822.32	1,082.57	1.48	-1.16	34.47	154.78
	NORMAL	4,356.0	0.95	233.23	4,164.39	-705.27	-823.53	1,084.25	0.30	-0.17	13.90	130.67
	NORMAL	4,449.0	1.83	218.22	4,257.37	-706.90	-825.06	1,086.47	1.02	0.95	-16.14	329.90
	NORMAL	4,544.0	0.53	253.89	4,352.34	-708.21	-826.42	1,088.36	1.51	-1.37	37.55	167.55
	NORMAL	4,638.0	0.48	324.36	4,446.34	-708.01	-827.07	1,088.72	0.62	-0.05	74.97	129.24
	NORMAL	4,733.0	1.41	259.55	4,541.33	-707.90	-828.45	1,089.70	1.35	0.98	-68.22	275.38
	NORMAL	4,826.0	0.79	257.00	4,634.31	-708.25	-830.20	1,091.25	0.67	-0.67	-2.74	183.24
	NORMAL	4,920.0	1.16	215.18	4,728.30	-709.18	-831.38	1,092.75	0.83	0.39	-44.49	275.50
	NORMAL	5,015.0	1.58	207.36	4,823.27	-711.13	-832.54	1,094.90	0.48	0.44	-8.23	332.06
	NORMAL	5,108.0	0.94	226.61	4,916.25	-712.79	-833.68	1,096.85	0.82	-0.69	20.70	155.89
	NORMAL	5,200.0	1.80	228.36	5,008.22	-714.27	-835.31	1,099.05	0.94	0.93	1.90	3.66
	NORMAL	5,294.0	2.22	202.97	5,102.17	-716.92	-837.12	1,102.16	1.04	0.45	-27.01	282.20
	NORMAL	5,389.0	2.97	217.62	5,197.07	-720.57	-839.34	1,106.22	1.05	0.79	15.42	48.96
	NORMAL	5,484.0	2.26	211.48	5,291.97	-724.11	-841.82	1,110.41	0.80	-0.75	-6.46	198.48
	NORMAL	5,575.0	2.38	200.52	5,382.89	-727.41	-843.42	1,113.77	0.50	0.13	-12.04	279.62
	NORMAL	5,640.0	2.38	200.52	5,447.84	-729.94	-844.37	1,116.14	0.00	0.00	0.00	0.00

3 Charts

3.1 Vertical Section View



3.2 Plan View

