

1 General

1.1 Customer Information

Company	PICEANCE VLY
Representative	
Address	

1.2 Well Information

Well	SG 543-23	Wellbore No.	
Well Name	SG 543-23	Common Name	SG 543-23
Project	SG 23-07S-096W	Site	SG 44-23 Pad
Vertical Section Azimuth	79.19 (°)	North Reference	True
Origin N/S		Origin E/W	
Spud Date	2/21/2013	UWI	SG 543-23
Active Datum	KB @5,051.0ft (above Mean Sea Level)		

2 Survey Name

2.1 Survey Name: Survey #1

Survey Name	Survey #1	Company	
Date Started	2/21/2013	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

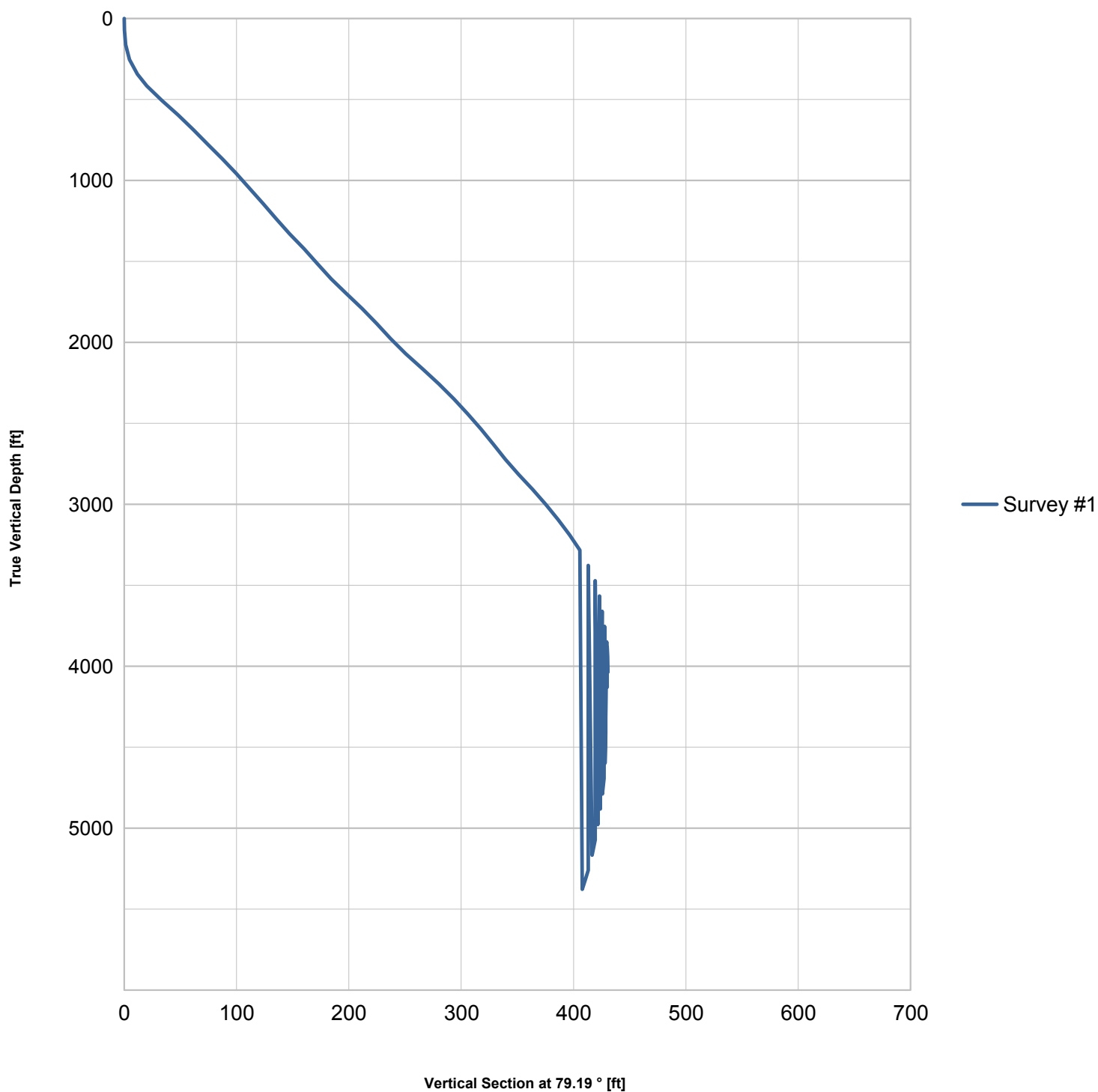
Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLS (°/100ft)	Build Rate (°/100ft)	Turn (°/100ft)	TFace (°)
2/21/2013	Tie On	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/21/2013	NORMAL	73.0	0.35	68.76	73.00	0.08	0.21	0.22	0.48	0.48	0.00	68.76
	NORMAL	163.0	1.14	82.62	162.99	0.30	1.35	1.38	0.89	0.88	15.40	19.84
	NORMAL	254.0	3.08	77.61	253.93	0.94	4.64	4.73	2.14	2.13	-5.51	352.06
	NORMAL	345.0	5.72	77.17	344.65	2.47	11.45	11.71	2.90	2.90	-0.48	359.05
	NORMAL	417.0	7.79	78.91	416.15	4.20	19.74	20.17	2.89	2.88	2.42	6.51
	NORMAL	508.0	9.19	80.26	506.15	6.62	32.95	33.61	1.55	1.54	1.48	8.77
	NORMAL	599.0	9.02	79.14	596.00	9.19	47.12	48.01	0.27	-0.19	-1.23	225.64
	NORMAL	690.0	7.94	78.67	686.00	11.77	60.29	61.43	1.19	-1.19	-0.52	183.44
	NORMAL	782.0	8.33	79.56	777.08	14.23	73.07	74.44	0.45	0.42	0.97	18.34
	NORMAL	873.0	8.21	78.44	867.13	16.72	85.92	87.53	0.22	-0.13	-1.23	232.76
	NORMAL	964.0	7.38	77.94	957.29	19.25	98.00	99.87	0.92	-0.91	-0.55	184.42
2/22/2013	NORMAL	1,058.0	7.22	81.58	1,050.53	21.37	109.75	111.81	0.52	-0.17	3.87	110.88
	NORMAL	1,152.0	7.27	79.36	1,143.78	23.34	121.44	123.66	0.30	0.05	-2.36	279.02
	NORMAL	1,246.0	6.94	81.38	1,237.06	25.29	132.90	135.28	0.44	-0.35	2.15	143.87
	NORMAL	1,340.0	7.78	80.28	1,330.28	27.21	144.78	147.32	0.91	0.89	-1.17	349.93
	NORMAL	1,433.0	7.91	79.26	1,422.41	29.47	157.28	160.01	0.20	0.14	-1.10	312.53
	NORMAL	1,527.0	6.77	78.57	1,515.64	31.77	169.06	172.02	1.22	-1.21	-0.73	184.08
	NORMAL	1,621.0	8.32	80.27	1,608.82	34.02	181.20	184.36	1.67	1.65	1.81	9.04
	NORMAL	1,713.0	8.64	77.66	1,699.82	36.62	194.51	197.92	0.54	0.35	-2.84	308.45
	NORMAL	1,807.0	8.46	76.39	1,792.77	39.76	208.12	211.89	0.28	-0.19	-1.35	225.74

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 (°)
2/22/2013	NORMAL	1,900.0	7.70	80.11	1,884.85	42.44	220.91	224.95	0.99	-0.82	4.00	147.30
	NORMAL	1,994.0	7.34	80.69	1,978.04	44.49	233.04	237.25	0.39	-0.38	0.62	168.38
	NORMAL	2,088.0	9.14	85.33	2,071.07	46.07	246.41	250.68	2.04	1.91	4.94	22.58
	NORMAL	2,182.0	9.14	85.33	2,163.87	47.28	261.29	265.52	0.00	0.00	0.00	0.00
2/23/2013	NORMAL	2,276.0	8.73	84.90	2,256.73	48.53	275.84	280.04	0.44	-0.44	-0.46	189.04
	NORMAL	2,370.0	7.75	79.31	2,349.76	50.34	289.17	293.48	1.35	-1.04	-5.95	216.52
	NORMAL	2,464.0	7.49	74.30	2,442.93	53.17	301.30	305.92	0.76	-0.28	-5.33	246.16
	NORMAL	2,557.0	7.09	74.53	2,535.18	56.34	312.66	317.68	0.43	-0.43	0.25	175.94
	NORMAL	2,652.0	6.29	75.92	2,629.53	59.17	323.36	328.72	0.86	-0.84	1.46	169.25
	NORMAL	2,746.0	6.96	67.38	2,722.91	62.61	333.61	339.44	1.27	0.71	-9.09	299.93
	NORMAL	2,841.0	7.58	71.57	2,817.14	66.81	344.87	351.28	0.86	0.65	4.41	42.63
	NORMAL	2,934.0	7.75	70.68	2,909.31	70.82	356.61	363.56	0.22	0.18	-0.96	324.63
	NORMAL	3,027.0	6.96	75.09	3,001.55	74.35	367.97	375.39	1.04	-0.85	4.74	146.62
	NORMAL	3,121.0	6.29	77.37	3,094.92	76.94	378.50	386.21	0.77	-0.71	2.43	159.69
	NORMAL	3,216.0	6.07	77.36	3,189.37	79.17	388.48	396.44	0.23	-0.23	-0.01	180.28
	NORMAL	3,311.0	4.98	71.96	3,283.93	81.55	397.30	405.55	1.27	-1.15	-5.68	202.83
	NORMAL	3,405.0	4.32	79.57	3,377.62	83.46	404.66	413.13	0.96	-0.70	8.10	140.68
	NORMAL	3,499.0	3.08	72.18	3,471.42	84.87	410.55	419.18	1.41	-1.32	-7.86	197.38
	NORMAL	3,594.0	1.58	71.60	3,566.34	86.06	414.22	423.01	1.58	-1.58	-0.61	180.61
	NORMAL	3,688.0	1.26	83.42	3,660.31	86.59	416.48	425.33	0.46	-0.34	12.57	143.34
	NORMAL	3,782.0	1.75	38.39	3,754.28	87.83	418.40	427.45	1.32	0.52	-47.90	268.93
	NORMAL	3,877.0	1.47	36.73	3,849.24	89.95	420.03	429.44	0.30	-0.29	-1.75	188.63
	NORMAL	3,908.0	0.79	30.82	3,880.24	90.45	420.37	429.88	2.22	-2.19	-19.06	186.78
	NORMAL	3,970.0	0.88	10.60	3,942.23	91.29	420.68	430.34	0.49	0.15	-32.61	276.71
	NORMAL	4,065.0	0.17	252.91	4,037.23	91.96	420.68	430.46	1.02	-0.75	-123.88	188.92
	NORMAL	4,158.0	0.57	262.31	4,130.22	91.86	420.09	429.86	0.43	0.43	10.11	13.35
	NORMAL	4,252.0	0.70	222.23	4,224.22	91.37	419.24	428.94	0.48	0.14	-42.64	265.64
	NORMAL	4,347.0	0.33	8.37	4,319.22	91.21	418.89	428.56	1.04	-0.39	153.83	169.31
	NORMAL	4,439.0	0.40	330.62	4,411.21	91.75	418.77	428.55	0.27	0.08	-41.03	266.79
	NORMAL	4,533.0	0.08	285.52	4,505.21	92.06	418.55	428.38	0.37	-0.34	-47.98	189.37
	NORMAL	4,626.0	0.31	265.01	4,598.21	92.05	418.23	428.08	0.25	0.25	-22.05	332.69
2/24/2013	NORMAL	4,721.0	0.84	254.78	4,693.21	91.85	417.31	427.13	0.57	0.56	-10.77	343.89
	NORMAL	4,816.0	1.08	242.36	4,788.20	91.25	415.84	425.58	0.33	0.25	-13.07	312.75
	NORMAL	4,910.0	1.23	238.78	4,882.18	90.32	414.19	423.78	0.18	0.16	-3.81	332.51
	NORMAL	5,005.0	1.58	231.47	4,977.15	88.97	412.30	421.67	0.41	0.37	-7.69	329.20
	NORMAL	5,100.0	1.77	234.61	5,072.11	87.31	410.08	419.17	0.22	0.20	3.31	27.36
	NORMAL	5,194.0	1.94	234.59	5,166.06	85.54	407.60	416.41	0.18	0.18	-0.02	359.77
	NORMAL	5,288.0	2.56	238.09	5,259.98	83.51	404.52	413.00	0.68	0.66	3.72	14.25
	NORMAL	5,340.0	2.75	239.89	5,311.93	82.27	402.45	410.74	0.40	0.37	3.46	24.59
	NORMAL	5,405.0	2.75	239.89	5,376.85	80.71	399.75	407.80	0.00	0.00	0.00	0.00

3 Charts

3.1 Vertical Section View



3.2 Plan View

