

1 General

1.1 Customer Information

Company	PICEANCE VLY
Representative	
Address	

1.2 Well Information

Well	SG 42-22	Wellbore No.	
Well Name	SG 42-22	Common Name	SG 42-22
Project	SG 22-07S-096W	Site	SG 42-22 Pad
Vertical Section Azimuth	50.36 (°)	North Reference	True
Origin N/S		Origin E/W	
Spud Date	7/18/2013	UWI	SG 42-22
Active Datum	KB @5,243.0ft (above Mean Sea Level)		

2 Survey Name

2.1 Survey Name: Survey #1

Survey Name	Survey #1	Company	
Date Started	7/18/2013	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

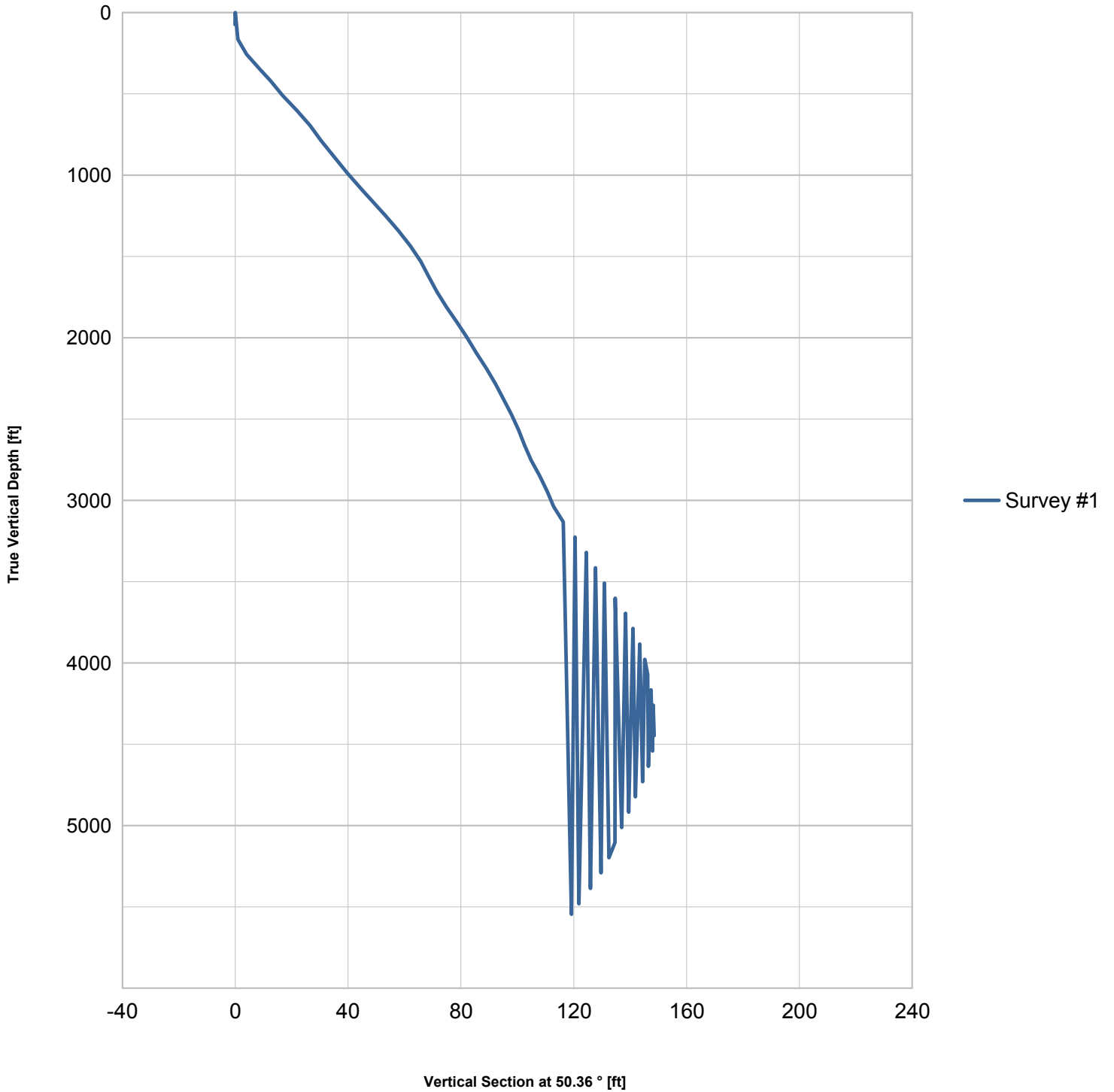
Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLS (°/100ft)	Build Rate (°/100ft)	Turn (°/100ft)	TFace (°)
7/18/2013	Tie On	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/2013	NORMAL	74.0	0.09	272.99	74.00	0.00	-0.06	-0.04	0.12	0.12	0.00	272.99
	NORMAL	166.0	1.32	70.22	165.99	0.37	0.87	0.90	1.53	1.34	170.90	158.65
	NORMAL	257.0	2.64	54.93	256.94	1.92	3.57	3.98	1.55	1.45	-16.80	330.43
	NORMAL	348.0	3.34	51.33	347.81	4.78	7.35	8.72	0.80	0.77	-3.96	343.18
	NORMAL	421.0	2.61	50.67	420.71	7.17	10.30	12.50	1.00	-1.00	-0.90	182.36
	NORMAL	511.0	2.89	52.12	510.61	9.86	13.68	16.82	0.32	0.31	1.61	14.68
	NORMAL	603.0	3.40	56.27	602.47	12.80	17.78	21.85	0.61	0.55	4.51	26.14
	NORMAL	695.0	2.43	49.63	694.35	15.58	21.53	26.52	1.11	-1.05	-7.22	195.90
	NORMAL	787.0	2.37	50.81	786.27	18.04	24.49	30.37	0.08	-0.07	1.28	141.12
	NORMAL	878.0	2.81	52.13	877.18	20.60	27.71	34.48	0.49	0.48	1.45	8.38
	NORMAL	970.0	2.66	47.60	969.07	23.42	31.07	38.87	0.29	-0.16	-4.92	232.99
	NORMAL	985.0	2.73	47.12	984.06	23.90	31.58	39.57	0.49	0.47	-3.20	341.89
7/19/2013	NORMAL	1,092.0	3.01	46.77	1,090.92	27.56	35.50	44.92	0.26	0.26	-0.33	356.24
	NORMAL	1,155.0	3.06	41.89	1,153.83	29.94	37.83	48.23	0.42	0.08	-7.75	278.51
	NORMAL	1,248.0	3.01	48.47	1,246.70	33.41	41.31	53.13	0.38	-0.05	7.08	101.44
	NORMAL	1,342.0	2.69	46.90	1,340.59	36.55	44.77	57.80	0.35	-0.34	-1.67	192.93
	NORMAL	1,437.0	2.46	53.80	1,435.49	39.28	48.04	62.06	0.41	-0.24	7.26	129.99
	NORMAL	1,531.0	2.02	52.66	1,529.42	41.48	50.99	65.73	0.47	-0.47	-1.21	185.21
	NORMAL	1,624.0	1.52	64.38	1,622.37	43.01	53.40	68.56	0.66	-0.54	12.60	149.86
	NORMAL	1,720.0	2.03	55.78	1,718.33	44.51	55.96	71.49	0.60	0.53	-8.96	328.08

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 (°)
7/19/2013	NORMAL	1,814.0	2.18	45.13	1,812.27	46.71	58.60	74.93	0.44	0.16	-11.33	285.60
	NORMAL	1,909.0	2.37	48.53	1,907.19	49.29	61.35	78.69	0.25	0.20	3.58	37.09
	NORMAL	2,004.0	1.93	44.17	2,002.12	51.73	63.94	82.24	0.49	-0.46	-4.59	198.22
	NORMAL	2,097.0	2.12	41.91	2,095.07	54.14	66.18	85.50	0.22	0.20	-2.43	336.07
	NORMAL	2,192.0	2.26	41.35	2,190.00	56.85	68.59	89.09	0.15	0.15	-0.59	351.03
	NORMAL	2,285.0	1.70	45.97	2,282.94	59.19	70.79	92.28	0.63	-0.60	4.97	166.39
	NORMAL	2,381.0	1.78	38.53	2,378.90	61.34	72.75	95.15	0.25	0.08	-7.75	285.76
	NORMAL	2,475.0	1.67	36.49	2,472.85	63.59	74.47	97.91	0.13	-0.12	-2.17	208.16
	NORMAL	2,569.0	1.41	42.29	2,566.82	65.54	76.06	100.39	0.32	-0.28	6.17	151.93
	NORMAL	2,663.0	1.29	33.80	2,660.79	67.28	77.43	102.55	0.25	-0.13	-9.03	234.84
	NORMAL	2,757.0	1.76	37.01	2,754.76	69.31	78.89	104.97	0.51	0.50	3.41	11.91
	NORMAL	2,852.0	1.96	34.51	2,849.71	71.81	80.69	107.95	0.23	0.21	-2.63	336.66
	NORMAL	2,947.0	1.38	27.15	2,944.67	74.17	82.13	110.56	0.65	-0.61	-7.75	196.64
	NORMAL	3,041.0	1.58	34.38	3,038.64	76.25	83.38	112.85	0.29	0.21	7.69	46.69
7/20/2013	NORMAL	3,135.0	2.64	45.10	3,132.57	78.84	85.64	116.25	1.20	1.13	11.40	25.83
	NORMAL	3,229.0	2.55	44.57	3,226.48	81.86	88.64	120.49	0.10	-0.10	-0.56	194.66
	NORMAL	3,323.0	2.39	36.43	3,320.39	84.93	91.28	124.47	0.41	-0.17	-8.66	241.45
	NORMAL	3,417.0	1.67	41.94	3,414.33	87.52	93.35	127.73	0.79	-0.77	5.86	167.57
	NORMAL	3,512.0	2.16	55.18	3,509.28	89.58	95.75	130.88	0.69	0.52	13.94	48.82
	NORMAL	3,605.0	2.51	50.10	3,602.20	91.88	98.75	134.66	0.44	0.38	-5.46	326.85
	NORMAL	3,698.0	2.02	54.77	3,695.13	94.13	101.65	138.33	0.56	-0.53	5.02	161.68
	NORMAL	3,791.0	1.31	56.79	3,788.09	95.66	103.88	141.02	0.77	-0.76	2.17	176.28
	NORMAL	3,886.0	1.58	56.16	3,883.06	96.99	105.88	143.41	0.28	0.28	-0.66	356.32
	NORMAL	3,980.0	0.68	81.34	3,977.04	97.79	107.50	145.17	1.07	-0.96	26.79	163.30
	NORMAL	4,074.0	0.84	14.32	4,071.03	98.54	108.23	146.21	0.90	0.17	-71.30	245.53
	NORMAL	4,168.0	0.97	13.55	4,165.02	99.99	108.58	147.40	0.14	0.14	-0.82	354.27
	NORMAL	4,262.0	0.53	336.63	4,259.01	101.16	108.60	148.16	0.67	-0.47	-39.28	210.23
	NORMAL	4,356.0	0.09	39.91	4,353.01	101.61	108.47	148.36	0.53	-0.47	67.32	170.67
7/21/2013	NORMAL	4,449.0	0.09	78.67	4,446.01	101.68	108.59	148.49	0.06	0.00	41.68	109.38
	NORMAL	4,544.0	0.82	221.81	4,541.01	101.19	108.21	147.89	0.94	0.77	150.67	146.60
	NORMAL	4,638.0	1.06	206.10	4,634.99	99.91	107.38	146.43	0.37	0.26	-16.71	304.93
	NORMAL	4,733.0	1.68	202.63	4,729.97	97.84	106.46	144.39	0.66	0.65	-3.65	350.64
	NORMAL	4,826.0	1.74	212.77	4,822.93	95.39	105.17	141.84	0.33	0.06	10.90	83.88
	NORMAL	4,920.0	1.46	200.18	4,916.89	93.07	103.98	139.45	0.48	-0.30	-13.39	225.28
	NORMAL	5,014.0	1.74	217.97	5,010.85	90.82	102.69	137.02	0.60	0.30	18.93	69.68
	NORMAL	5,108.0	1.41	198.82	5,104.82	88.60	101.44	134.64	0.66	-0.35	-20.37	228.58
	NORMAL	5,200.0	1.76	201.08	5,196.78	86.21	100.57	132.44	0.39	0.38	2.46	11.26
	NORMAL	5,294.0	2.10	205.21	5,290.73	83.30	99.31	129.62	0.39	0.36	4.39	24.32
	NORMAL	5,389.0	2.72	213.48	5,385.65	79.85	97.33	125.89	0.75	0.65	8.71	33.46
	NORMAL	5,484.0	2.37	220.18	5,480.55	76.47	94.82	121.80	0.48	-0.37	7.05	142.95
	NORMAL	5,549.0	2.37	220.18	5,545.50	74.41	93.08	119.15	0.00	0.00	0.00	0.00

3 Charts

3.1 Vertical Section View



3.2 Plan View

