

1 General

1.1 Customer Information

Company	PICEANCE VLY
Representative	
Address	

1.2 Well Information

Well	SG 42-23	Wellbore No.	
Well Name	SG 42-23	Common Name	SG 42-23
Project	SG 23-07S-096W	Site	SG 32-23 Pad
Vertical Section Azimuth	80.65 (°)	North Reference	True
Origin N/S		Origin E/W	
Spud Date	11/15/2012	UWI	SG 42-23
Active Datum	KB @5,064.0ft (above Mean Sea Level)		

2 Survey Name

2.1 Survey Name: Survey #1

Survey Name	Survey #1	Company	
Date Started	11/15/2012	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

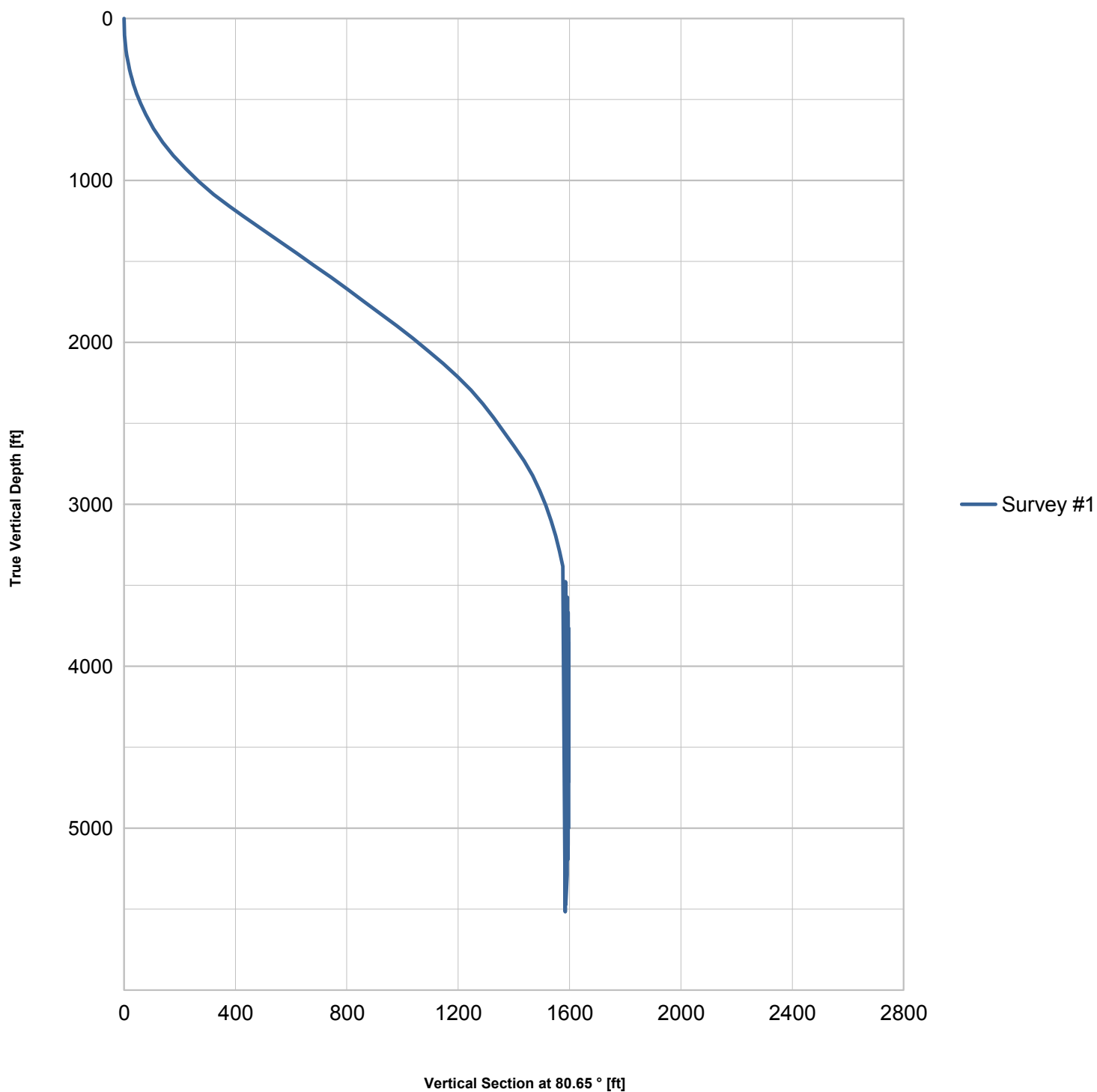
Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLS (°/100ft)	Build Rate (°/100ft)	Turn (°/100ft)	TFace (°)
11/15/2012	Tie On	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/15/2012	NORMAL	105.0	2.20	81.91	104.97	0.28	2.00	2.02	2.10	2.10	0.00	81.91
	NORMAL	135.0	3.08	75.62	134.94	0.56	3.35	3.39	3.08	2.93	-20.97	338.62
	NORMAL	166.0	3.78	83.58	165.89	0.89	5.17	5.24	2.73	2.26	25.68	38.25
	NORMAL	196.0	4.31	85.17	195.81	1.09	7.27	7.36	1.81	1.77	5.30	12.74
	NORMAL	226.0	5.28	81.74	225.71	1.38	9.76	9.86	3.37	3.23	-11.43	341.82
	NORMAL	256.0	5.98	80.60	255.56	1.84	12.67	12.80	2.36	2.33	-3.80	350.36
	NORMAL	286.0	6.95	83.94	285.37	2.29	16.02	16.18	3.47	3.23	11.13	22.86
	NORMAL	317.0	7.83	81.47	316.11	2.80	19.97	20.16	3.02	2.84	-7.97	338.92
11/16/2012	NORMAL	347.0	8.53	79.54	345.81	3.50	24.18	24.43	2.51	2.33	-6.43	337.62
	NORMAL	378.0	9.15	78.75	376.44	4.40	28.86	29.19	2.04	2.00	-2.55	348.53
	NORMAL	408.0	9.77	80.68	406.03	5.28	33.71	34.12	2.32	2.07	6.43	28.05
	NORMAL	438.0	11.09	79.89	435.53	6.20	39.06	39.55	4.43	4.40	-2.63	353.43
	NORMAL	469.0	11.96	80.51	465.91	7.25	45.17	45.74	2.83	2.81	2.00	8.41
	NORMAL	499.0	13.20	82.88	495.19	8.19	51.63	52.28	4.48	4.13	7.90	23.76
	NORMAL	529.0	13.81	82.35	524.36	9.09	58.58	59.28	2.07	2.03	-1.77	348.27
	NORMAL	601.0	16.56	81.82	593.84	11.69	77.26	78.13	3.82	3.82	-0.74	356.85
	NORMAL	692.0	19.40	81.62	680.39	15.74	105.05	106.21	3.12	3.12	-0.22	358.66
	NORMAL	783.0	22.97	79.10	765.22	21.30	137.45	139.08	4.05	3.92	-2.77	344.51
	NORMAL	873.0	27.52	79.82	846.61	28.30	175.18	177.45	5.07	5.06	0.80	4.19
	NORMAL	964.0	29.42	80.89	926.60	35.56	217.94	220.82	2.16	2.09	1.18	15.50

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 (°)
11/16/2012	NORMAL	1,059.0	32.06	79.72	1,008.24	43.75	265.80	269.38	2.85	2.78	-1.23	346.73
	NORMAL	1,154.0	36.26	80.66	1,086.84	52.82	318.35	322.70	4.46	4.42	0.99	7.55
	NORMAL	1,249.0	39.03	79.92	1,162.05	62.61	375.54	380.72	2.95	2.92	-0.78	350.44
	NORMAL	1,325.0	39.40	79.47	1,220.94	71.21	422.81	428.76	0.61	0.49	-0.59	322.27
11/17/2012	NORMAL	1,435.0	40.48	77.17	1,305.28	85.52	491.95	499.31	1.66	0.98	-2.09	305.30
	NORMAL	1,531.0	39.74	77.96	1,378.70	98.84	552.35	561.07	0.94	-0.77	0.82	145.78
	NORMAL	1,626.0	39.65	79.63	1,451.80	110.63	611.86	621.71	1.13	-0.09	1.76	95.47
	NORMAL	1,721.0	39.52	82.36	1,525.02	120.11	671.64	682.23	1.84	-0.14	2.87	95.32
	NORMAL	1,816.0	39.60	81.22	1,598.26	128.75	731.52	742.72	0.77	0.08	-1.20	275.85
	NORMAL	1,912.0	38.29	83.50	1,672.93	136.78	791.32	803.03	2.02	-1.36	2.38	133.31
	NORMAL	2,007.0	38.07	83.53	1,747.61	143.42	849.66	861.68	0.23	-0.23	0.03	175.19
	NORMAL	2,103.0	38.07	83.59	1,823.18	150.06	908.49	920.80	0.04	0.00	0.06	90.02
	NORMAL	2,199.0	37.67	83.24	1,898.96	156.81	967.03	979.66	0.47	-0.42	-0.36	208.10
11/18/2012	NORMAL	2,295.0	36.18	81.39	1,975.71	164.51	1,024.18	1,037.30	1.94	-1.55	-1.93	215.98
	NORMAL	2,390.0	34.86	79.19	2,053.03	173.80	1,078.58	1,092.48	1.93	-1.39	-2.32	223.19
	NORMAL	2,485.0	34.11	80.78	2,131.34	183.16	1,131.54	1,146.26	1.23	-0.79	1.67	130.45
	NORMAL	2,581.0	31.74	80.86	2,211.92	191.49	1,183.05	1,198.44	2.47	-2.47	0.08	178.98
	NORMAL	2,677.0	28.24	81.22	2,295.05	198.97	1,230.44	1,246.42	3.65	-3.65	0.38	177.21
	NORMAL	2,772.0	25.01	80.95	2,379.96	205.56	1,272.49	1,288.98	3.40	-3.40	-0.28	182.02
	NORMAL	2,867.0	22.95	78.40	2,466.76	212.44	1,310.47	1,327.58	2.43	-2.17	-2.68	205.55
	NORMAL	2,963.0	22.64	77.52	2,555.26	220.20	1,346.85	1,364.73	0.48	-0.32	-0.92	227.32
	NORMAL	3,059.0	22.68	76.91	2,643.85	228.38	1,382.92	1,401.65	0.25	0.04	-0.64	279.38
	NORMAL	3,154.0	20.97	79.11	2,732.04	235.74	1,417.45	1,436.92	2.00	-1.80	2.32	155.46
	NORMAL	3,250.0	16.53	79.46	2,822.93	241.49	1,447.76	1,467.76	4.63	-4.63	0.36	178.71
	NORMAL	3,345.0	13.89	79.28	2,914.59	246.08	1,472.26	1,492.68	2.78	-2.78	-0.19	180.94
	NORMAL	3,441.0	12.75	74.71	3,008.01	251.02	1,493.80	1,514.73	1.62	-1.19	-4.76	220.52
	NORMAL	3,536.0	10.77	73.22	3,101.01	256.35	1,512.41	1,533.96	2.11	-2.08	-1.57	187.99
	NORMAL	3,631.0	9.05	77.79	3,194.59	260.49	1,528.21	1,550.23	1.99	-1.81	4.81	157.67
	NORMAL	3,726.0	7.96	78.76	3,288.54	263.35	1,541.97	1,564.27	1.16	-1.15	1.02	172.98
	NORMAL	3,822.0	6.42	77.88	3,383.79	265.78	1,553.74	1,576.27	1.61	-1.60	-0.92	183.65
	NORMAL	3,917.0	5.01	70.23	3,478.31	268.29	1,562.83	1,585.66	1.68	-1.48	-8.05	204.61
	NORMAL	4,012.0	2.90	73.39	3,573.08	270.38	1,569.04	1,592.12	2.23	-2.22	3.33	175.68
	NORMAL	4,107.0	0.88	125.43	3,668.03	270.65	1,571.94	1,595.02	2.59	-2.13	54.78	163.60
11/19/2012	NORMAL	4,201.0	1.19	144.50	3,762.01	269.44	1,573.09	1,595.97	0.49	0.33	20.29	57.81
	NORMAL	4,297.0	0.70	23.56	3,858.01	269.16	1,573.91	1,596.72	1.73	-0.51	-125.98	201.18
	NORMAL	4,393.0	0.61	331.42	3,954.00	270.15	1,573.90	1,596.88	0.61	-0.09	-54.31	235.94
	NORMAL	4,488.0	1.10	313.33	4,048.99	271.22	1,572.99	1,596.16	0.58	0.52	-19.04	321.90
	NORMAL	4,584.0	1.63	7.83	4,144.97	273.20	1,572.51	1,596.00	1.39	0.55	56.77	96.59
	NORMAL	4,679.0	1.50	350.78	4,239.93	275.77	1,572.49	1,596.40	0.51	-0.14	-17.95	245.99
	NORMAL	4,774.0	0.57	49.75	4,334.92	277.30	1,572.65	1,596.81	1.37	-0.98	62.07	157.95
	NORMAL	4,869.0	0.22	41.31	4,429.92	277.74	1,573.13	1,597.36	0.37	-0.37	-8.88	185.24
	NORMAL	4,964.0	0.79	249.70	4,524.91	277.65	1,572.64	1,596.86	1.04	0.60	-159.59	202.32
	NORMAL	5,060.0	0.26	5.63	4,620.91	277.64	1,572.04	1,596.26	0.97	-0.55	120.76	165.49
	NORMAL	5,155.0	0.44	305.34	4,715.91	278.07	1,571.76	1,596.06	0.40	0.19	-63.46	263.74
	NORMAL	5,250.0	0.18	298.22	4,810.91	278.35	1,571.34	1,595.68	0.28	-0.27	-7.49	184.88
11/20/2012	NORMAL	5,346.0	0.66	158.56	4,906.91	277.90	1,571.40	1,595.68	0.84	0.50	-145.48	212.02
	NORMAL	5,442.0	1.05	185.97	5,002.89	276.51	1,571.52	1,595.56	0.58	0.41	28.55	60.62
	NORMAL	5,537.0	1.36	197.23	5,097.87	274.57	1,571.09	1,594.83	0.41	0.33	11.85	43.09
	NORMAL	5,632.0	1.63	204.26	5,192.84	272.26	1,570.20	1,593.57	0.34	0.28	7.40	37.74
	NORMAL	5,727.0	2.11	210.59	5,287.79	269.53	1,568.76	1,591.70	0.55	0.51	6.66	26.47
	NORMAL	5,822.0	2.55	216.57	5,382.71	266.32	1,566.61	1,589.06	0.53	0.46	6.29	31.93
	NORMAL	5,910.0	2.64	220.43	5,470.62	263.21	1,564.13	1,586.11	0.22	0.10	4.39	64.69
	NORMAL	5,955.0	2.64	220.43	5,515.57	261.63	1,562.78	1,584.53	0.00	0.00	0.00	0.00

3 Charts

3.1 Vertical Section View



3.2 Plan View

