

1 General

1.1 Customer Information

Company	PICEANCE VLY
Representative	
Address	

1.2 Well Information

Well	SG 542-23	Wellbore No.	
Well Name	SG 542-23	Common Name	SG 542-23
Project	SG 23-07S-096W	Site	SG 32-23 Pad
Vertical Section Azimuth	117.30 (°)	North Reference	True
Origin N/S		Origin E/W	
Spud Date	11/27/2012	UWI	SG 542-23
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	11/27/2012	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

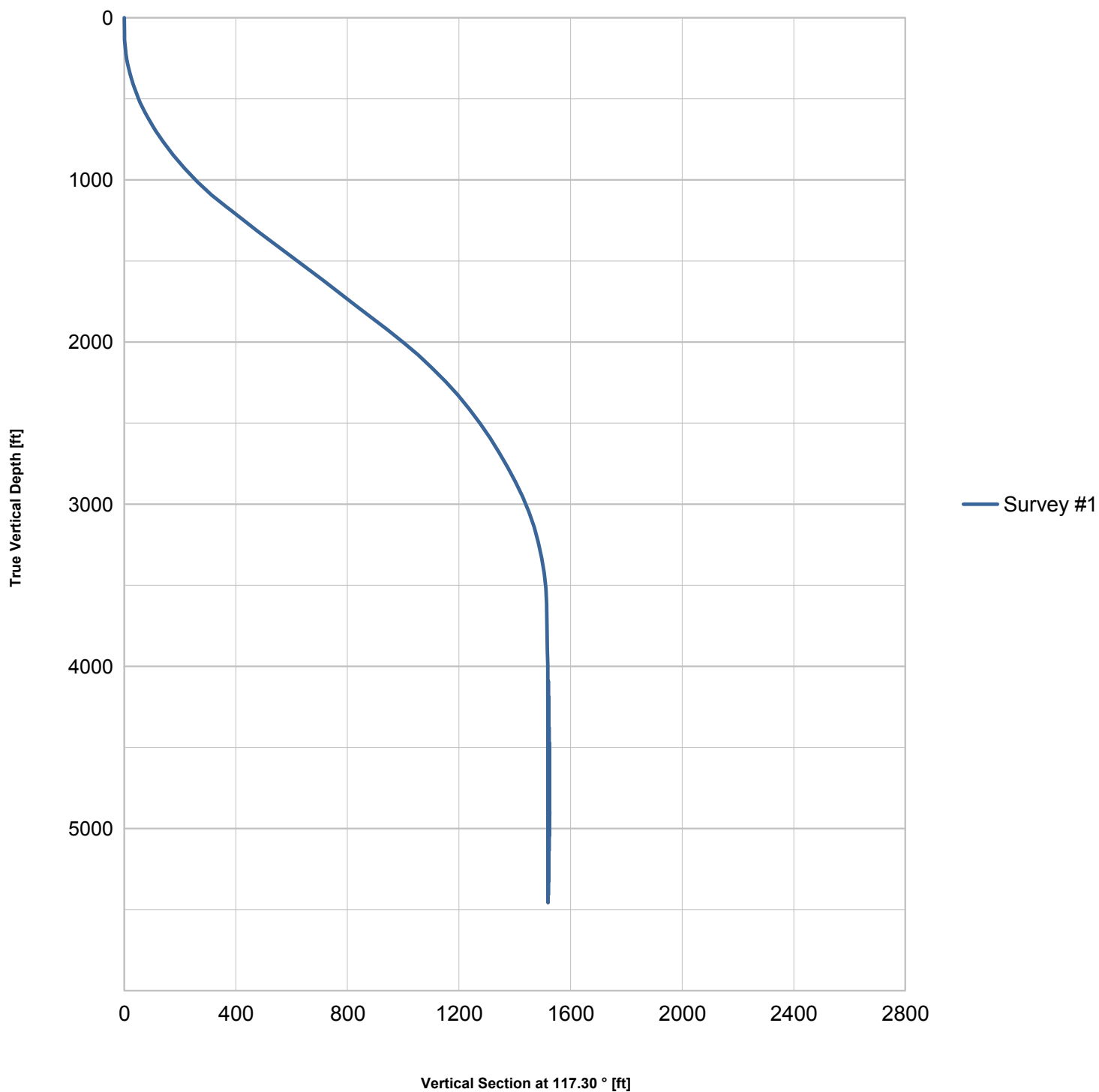
Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLS (°/100ft)	Build Rate (°/100ft)	Turn (°/100ft)	TFace (°)
11/27/2012	Tie On	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/27/2012	NORMAL	105.0	0.88	137.72	105.00	-0.60	0.54	0.76	0.84	0.84	0.00	137.72
	NORMAL	135.0	1.85	123.85	134.99	-1.04	1.10	1.45	3.39	3.23	-46.23	334.17
	NORMAL	166.0	2.90	120.41	165.96	-1.71	2.19	2.73	3.42	3.39	-11.10	350.55
	NORMAL	196.0	3.52	121.82	195.91	-2.58	3.63	4.41	2.08	2.07	4.70	7.96
	NORMAL	226.0	4.40	106.94	225.84	-3.40	5.51	6.46	4.49	2.93	-49.60	302.99
	NORMAL	256.0	5.63	108.02	255.73	-4.19	8.01	9.04	4.11	4.10	3.60	4.93
	NORMAL	286.0	6.86	111.97	285.55	-5.32	11.07	12.28	4.34	4.10	13.17	21.23
	NORMAL	317.0	7.83	115.93	316.29	-6.94	14.69	16.23	3.53	3.13	12.77	29.53
	NORMAL	347.0	8.80	122.08	345.98	-9.05	18.47	20.56	4.38	3.23	20.50	45.59
	NORMAL	378.0	10.21	121.38	376.55	-11.74	22.83	25.67	4.56	4.55	-2.26	354.97
	NORMAL	408.0	11.26	117.86	406.03	-14.49	27.69	31.25	4.12	3.50	-11.73	326.28
	NORMAL	438.0	11.70	118.48	435.43	-17.31	32.95	37.22	1.52	1.47	2.07	15.97
	NORMAL	469.0	11.96	115.58	465.77	-20.20	38.61	43.57	2.09	0.84	-9.35	292.20
	NORMAL	499.0	13.11	114.52	495.05	-22.95	44.51	50.08	3.91	3.83	-3.53	348.17
	NORMAL	529.0	14.60	116.37	524.18	-26.04	50.99	57.26	5.18	4.97	6.17	17.46
	NORMAL	559.0	16.10	115.49	553.11	-29.51	58.14	65.20	5.06	5.00	-2.93	350.75
	NORMAL	590.0	16.80	117.07	582.84	-33.40	66.00	73.97	2.68	2.26	5.10	33.35
	NORMAL	621.0	17.86	116.28	612.43	-37.54	74.26	83.21	3.50	3.42	-2.55	347.11
	NORMAL	651.0	19.09	116.98	640.88	-41.81	82.75	92.71	4.17	4.10	2.33	10.56
	NORMAL	681.0	19.71	118.56	669.18	-46.45	91.57	102.67	2.71	2.07	5.27	40.99

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 (°)
11/27/2012	NORMAL	711.0	20.76	117.77	697.33	-51.35	100.72	113.05	3.62	3.50	-2.63	345.04
	NORMAL	783.0	22.11	120.39	764.35	-64.15	123.70	139.34	2.30	1.88	3.64	36.57
	NORMAL	873.0	25.09	120.52	846.81	-82.41	154.75	175.31	3.31	3.31	0.14	1.06
	NORMAL	964.0	27.36	119.87	928.44	-102.63	189.51	215.47	2.51	2.49	-0.71	352.50
	NORMAL	1,060.0	30.36	117.16	1,012.51	-124.69	230.24	261.78	3.41	3.13	-2.82	335.25
	NORMAL	1,155.0	34.81	116.91	1,092.54	-147.94	275.80	312.93	4.69	4.68	-0.26	358.16
	NORMAL	1,250.0	36.89	115.46	1,169.54	-172.47	325.73	368.55	2.36	2.19	-1.53	337.20
	NORMAL	1,260.0	36.85	115.03	1,177.54	-175.03	331.16	374.55	2.61	-0.40	-4.30	261.02
11/28/2012	NORMAL	1,339.0	36.97	113.20	1,240.71	-194.41	374.46	421.92	1.40	0.15	-2.32	275.50
	NORMAL	1,434.0	36.79	116.01	1,316.70	-218.14	426.28	478.85	1.79	-0.19	2.96	97.22
	NORMAL	1,530.0	37.49	114.78	1,393.23	-242.99	478.64	536.78	1.06	0.73	-1.28	312.82
	NORMAL	1,625.0	38.24	117.33	1,468.23	-268.61	531.01	595.07	1.83	0.79	2.68	65.41
11/29/2012	NORMAL	1,720.0	37.58	117.86	1,543.19	-295.64	582.74	653.43	0.77	-0.69	0.56	153.95
	NORMAL	1,816.0	38.07	116.36	1,619.02	-322.47	635.15	712.30	1.09	0.51	-1.56	297.45
	NORMAL	1,911.0	36.66	119.44	1,694.53	-349.41	686.10	769.94	2.46	-1.48	3.24	128.24
	NORMAL	2,007.0	36.97	119.00	1,771.38	-377.50	736.30	827.43	0.42	0.32	-0.46	319.44
	NORMAL	2,103.0	37.76	117.50	1,847.68	-405.06	787.62	885.68	1.26	0.82	-1.56	310.35
	NORMAL	2,199.0	36.44	118.56	1,924.25	-432.27	838.74	943.58	1.53	-1.38	1.10	154.58
	NORMAL	2,294.0	35.43	117.94	2,001.17	-458.66	887.85	999.32	1.13	-1.06	-0.65	199.56
	NORMAL	2,390.0	33.27	117.15	2,080.42	-483.72	935.87	1,053.49	2.30	-2.25	-0.82	191.34
	NORMAL	2,485.0	30.81	117.33	2,160.94	-506.78	980.68	1,103.88	2.59	-2.59	0.19	177.85
	NORMAL	2,581.0	29.14	117.50	2,244.10	-528.86	1,023.25	1,151.84	1.74	-1.74	0.18	177.16
	NORMAL	2,676.0	26.81	116.71	2,328.00	-549.17	1,062.91	1,196.40	2.48	-2.45	-0.83	188.69
	NORMAL	2,771.0	24.04	116.80	2,413.79	-567.53	1,099.33	1,237.18	2.92	-2.92	0.09	179.24
	NORMAL	2,867.0	23.08	117.68	2,501.78	-585.09	1,133.45	1,275.55	1.06	-1.00	0.92	160.28
	NORMAL	2,963.0	20.53	117.50	2,590.91	-601.61	1,165.05	1,311.21	2.66	-2.66	-0.19	181.42
	NORMAL	3,058.0	19.34	117.86	2,680.21	-616.65	1,193.73	1,343.60	1.26	-1.25	0.38	174.28
	NORMAL	3,154.0	18.11	116.80	2,771.13	-630.81	1,221.10	1,374.41	1.33	-1.28	-1.10	194.96
	NORMAL	3,250.0	16.53	113.81	2,862.78	-643.05	1,246.92	1,402.97	1.89	-1.65	-3.11	207.98
	NORMAL	3,345.0	14.33	112.76	2,954.35	-653.05	1,270.13	1,428.18	2.33	-2.32	-1.11	186.73
	NORMAL	3,440.0	12.70	111.26	3,046.71	-661.39	1,290.70	1,450.29	1.75	-1.72	-1.58	191.41
	NORMAL	3,536.0	10.15	110.30	3,140.80	-668.15	1,308.47	1,469.18	2.66	-2.66	-1.00	183.79
	NORMAL	3,631.0	8.18	113.64	3,234.59	-673.77	1,322.52	1,484.23	2.15	-2.07	3.52	166.53
	NORMAL	3,726.0	6.46	106.96	3,328.81	-678.04	1,333.82	1,496.24	2.02	-1.81	-7.03	203.04
	NORMAL	3,822.0	4.97	104.76	3,424.33	-680.67	1,343.01	1,505.61	1.57	-1.55	-2.29	187.27
	NORMAL	3,916.0	2.77	84.46	3,518.11	-681.49	1,349.21	1,511.49	2.72	-2.34	-21.60	202.06
11/30/2012	NORMAL	4,011.0	0.70	83.05	3,613.07	-681.20	1,352.07	1,513.90	2.18	-2.18	-1.48	180.48
	NORMAL	4,106.0	0.40	110.91	3,708.06	-681.25	1,352.95	1,514.71	0.41	-0.32	29.33	151.65
	NORMAL	4,201.0	0.66	135.79	3,803.06	-681.76	1,353.65	1,515.56	0.36	0.27	26.19	54.41
	NORMAL	4,297.0	1.36	73.21	3,899.04	-681.82	1,355.12	1,516.90	1.26	0.73	-65.19	268.41
	NORMAL	4,392.0	1.32	74.53	3,994.02	-681.21	1,357.26	1,518.52	0.05	-0.04	1.39	143.00
	NORMAL	4,488.0	0.79	83.40	4,090.00	-680.83	1,358.98	1,519.88	0.58	-0.55	9.24	167.28
	NORMAL	4,583.0	0.66	83.58	4,184.99	-680.70	1,360.17	1,520.87	0.14	-0.14	0.19	179.09
	NORMAL	4,678.0	0.70	87.09	4,279.99	-680.61	1,361.30	1,521.83	0.06	0.04	3.69	47.93
	NORMAL	4,773.0	0.53	81.29	4,374.98	-680.51	1,362.31	1,522.69	0.19	-0.18	-6.11	197.23
	NORMAL	4,868.0	0.31	159.52	4,469.98	-680.69	1,362.83	1,523.23	0.59	-0.23	82.35	146.97
	NORMAL	4,964.0	0.40	187.64	4,565.98	-681.26	1,362.88	1,523.54	0.20	0.09	29.29	77.21
	NORMAL	5,059.0	0.48	143.52	4,660.98	-681.91	1,363.07	1,524.01	0.36	0.08	-46.44	260.58
12/1/2012	NORMAL	5,154.0	0.70	173.05	4,755.97	-682.81	1,363.38	1,524.69	0.39	0.23	31.08	69.49
	NORMAL	5,294.0	1.14	211.11	4,895.95	-684.85	1,362.76	1,525.08	0.52	0.31	27.19	74.29
	NORMAL	5,345.0	1.67	222.53	4,946.94	-685.83	1,362.00	1,524.85	1.17	1.04	22.39	33.64
	NORMAL	5,441.0	1.85	224.64	5,042.89	-687.96	1,359.96	1,524.02	0.20	0.19	2.20	20.86
	NORMAL	5,536.0	2.20	222.09	5,137.83	-690.41	1,357.67	1,523.10	0.38	0.37	-2.68	344.29
	NORMAL	5,631.0	2.50	219.11	5,232.75	-693.37	1,355.14	1,522.21	0.34	0.32	-3.14	336.35
	NORMAL	5,726.0	2.81	223.76	5,327.65	-696.66	1,352.22	1,521.13	0.40	0.33	4.89	37.13
	NORMAL	5,810.0	2.90	224.82	5,411.55	-699.65	1,349.30	1,519.90	0.12	0.11	1.26	30.93
	NORMAL	5,855.0	2.90	224.82	5,456.49	-701.27	1,347.69	1,519.22	0.00	0.00	0.00	0.00

3 Charts

3.1 Vertical Section View



3.2 Plan View

