

1 General

1.1 Customer Information

Company	PICEANCE VLY
Representative	
Address	

1.2 Well Information

Well	SG 532-23	Wellbore No.	
Well Name	SG 532-23	Common Name	SG 532-23
Project	SG 23-07S-096W	Site	GV 18-23 Pad
Vertical Section Azimuth	102.44 (°)	North Reference	
Origin N/S		Origin E/W	
Spud Date	3/2/2012	UWI	SG 532-23
Active Datum	KB @5,158.0ft (above Mean Sea Level)		

2 Survey Name

2.1 Survey Name: Survey #1

Survey Name	Survey #1	Company	
Date Started	3/2/2012	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

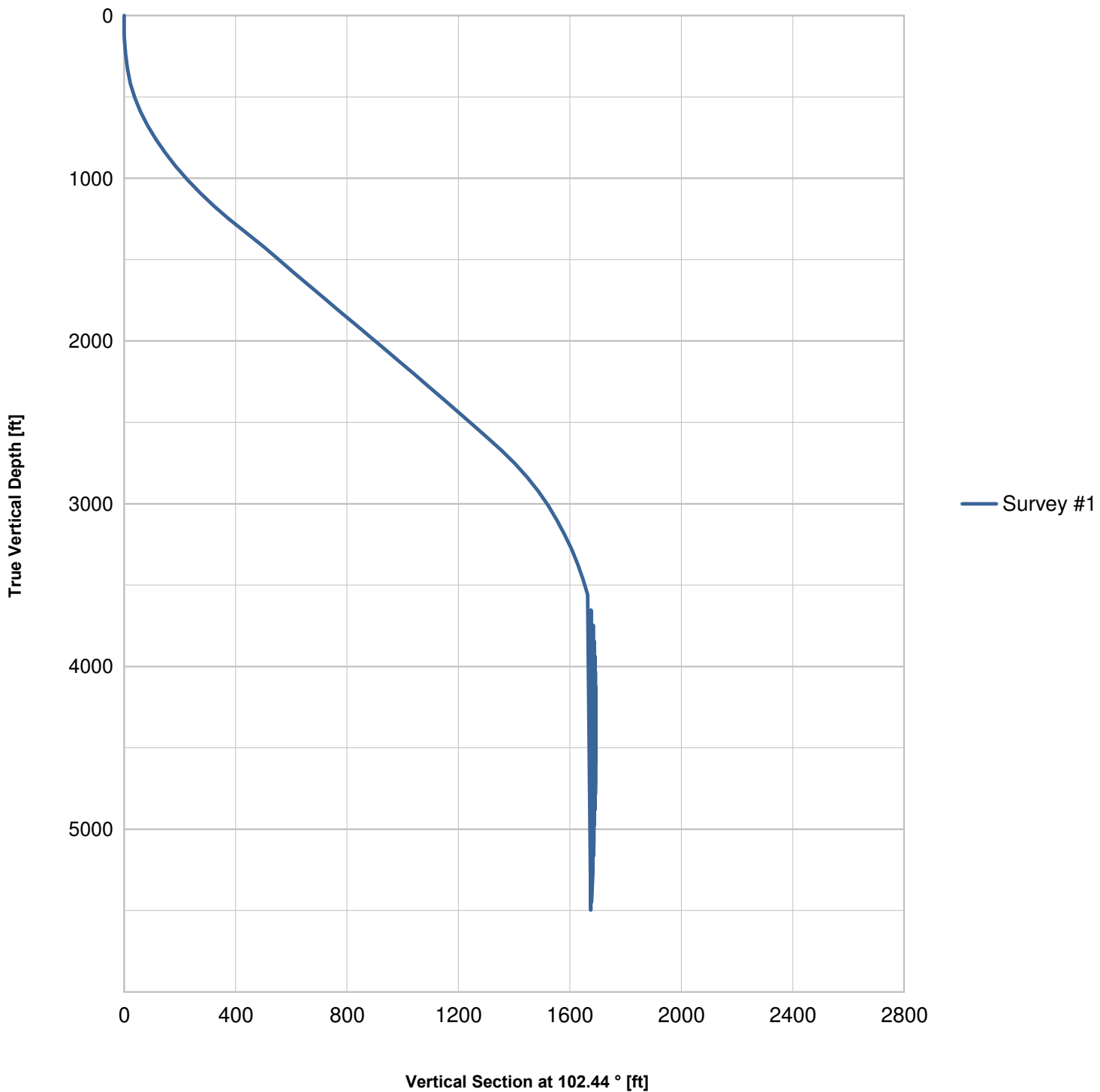
Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLS (°/100ft)	Build Rate (°/100ft)	Turn (°/100ft)	TFace (°)
3/2/2012	Tie On	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/3/2012	NORMAL	117.0	0.79	151.44	117.00	-0.71	0.39	0.53	0.68	0.68	0.00	151.44
	NORMAL	147.0	1.85	118.30	146.99	-1.12	0.91	1.13	4.22	3.53	-110.47	306.90
	NORMAL	238.0	3.61	118.30	237.88	-3.17	4.73	5.30	1.93	1.93	0.00	0.00
	NORMAL	329.0	4.93	92.29	328.64	-4.69	11.16	11.91	2.54	1.45	-28.58	290.84
	NORMAL	420.0	8.62	99.32	418.99	-5.95	21.80	22.57	4.15	4.05	7.73	16.18
	NORMAL	510.0	11.96	102.92	507.53	-9.13	37.55	38.63	3.78	3.71	4.00	12.67
	NORMAL	592.0	14.70	102.20	587.31	-13.23	56.00	57.54	3.35	3.34	-0.88	356.18
	NORMAL	683.0	18.27	100.40	674.56	-18.24	81.32	83.35	3.96	3.92	-1.98	350.99
	NORMAL	774.0	20.48	101.30	760.40	-23.94	110.97	113.52	2.45	2.43	0.99	8.12
	NORMAL	864.0	22.84	103.10	844.04	-30.98	143.43	146.73	2.72	2.62	2.00	16.56
	NORMAL	955.0	26.30	102.60	926.78	-39.39	180.31	184.56	3.81	3.80	-0.55	356.33
	NORMAL	1,047.0	28.41	102.50	1,008.49	-48.57	221.58	226.84	2.29	2.29	-0.11	358.71
	NORMAL	1,141.0	29.90	102.00	1,090.58	-58.28	266.33	272.63	1.61	1.59	-0.53	350.50
	NORMAL	1,235.0	33.27	102.40	1,170.64	-68.69	314.44	321.85	3.59	3.59	0.43	3.73
	NORMAL	1,330.0	35.75	102.58	1,248.92	-80.34	366.98	375.67	2.61	2.61	0.19	2.43
	NORMAL	1,415.0	35.91	101.27	1,317.84	-90.62	415.66	425.43	0.92	0.19	-1.54	281.25
3/4/2012	NORMAL	1,451.0	36.60	102.10	1,346.87	-94.93	436.51	446.71	2.35	1.92	2.31	35.76
	NORMAL	1,546.0	34.90	99.60	1,423.97	-105.40	491.01	502.18	2.36	-1.79	-2.63	219.66
	NORMAL	1,640.0	34.30	101.00	1,501.34	-114.94	543.52	555.52	1.06	-0.64	1.49	127.62
	NORMAL	1,735.0	34.40	104.20	1,579.78	-126.63	595.82	609.11	1.90	0.11	3.37	88.15

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 (°)
3/4/2012	NORMAL	1,829.0	34.60	103.60	1,657.25	-139.42	647.50	662.33	0.42	0.21	-0.64	300.23
	NORMAL	1,924.0	35.30	102.60	1,735.12	-151.75	700.50	716.75	0.95	0.74	-1.05	320.29
	NORMAL	2,018.0	34.50	104.00	1,812.21	-164.11	752.84	770.52	1.20	-0.85	1.49	135.54
	NORMAL	2,113.0	35.50	103.80	1,890.03	-177.20	805.74	824.99	1.06	1.05	-0.21	353.37
	NORMAL	2,207.0	34.10	102.60	1,967.22	-189.46	857.96	878.63	1.66	-1.49	-1.28	205.58
	NORMAL	2,302.0	34.50	101.50	2,045.70	-200.63	910.31	932.16	0.78	0.42	-1.16	302.38
3/5/2012	NORMAL	2,396.0	34.80	101.30	2,123.03	-211.20	962.70	985.60	0.34	0.32	-0.21	339.16
	NORMAL	2,491.0	33.90	103.10	2,201.46	-222.52	1,015.09	1,039.19	1.43	-0.95	1.89	132.29
	NORMAL	2,585.0	34.20	102.40	2,279.34	-234.13	1,066.43	1,091.82	0.53	0.32	-0.74	307.14
	NORMAL	2,680.0	34.30	102.40	2,357.87	-245.61	1,118.65	1,145.29	0.11	0.11	0.00	0.00
	NORMAL	2,774.0	34.40	101.20	2,435.48	-256.46	1,170.56	1,198.32	0.73	0.11	-1.28	277.91
	NORMAL	2,869.0	33.50	102.10	2,514.28	-267.16	1,222.52	1,251.37	1.09	-0.95	0.95	151.19
	NORMAL	2,963.0	33.20	99.80	2,592.81	-276.98	1,273.25	1,303.02	1.38	-0.32	-2.45	255.69
	NORMAL	3,058.0	32.50	102.60	2,672.62	-286.98	1,323.79	1,354.53	1.76	-0.74	2.95	115.92
	NORMAL	3,153.0	28.90	102.90	2,754.29	-297.67	1,371.09	1,403.02	3.79	-3.79	0.32	177.69
	NORMAL	3,247.0	26.50	103.50	2,837.51	-307.64	1,413.63	1,446.71	2.57	-2.55	0.64	173.64
	NORMAL	3,342.0	23.60	102.40	2,923.57	-316.67	1,452.82	1,486.93	3.09	-3.05	-1.16	188.63
	NORMAL	3,436.0	20.30	99.80	3,010.74	-323.49	1,487.27	1,522.04	3.66	-3.51	-2.77	195.21
	NORMAL	3,531.0	17.60	100.60	3,100.59	-328.94	1,517.64	1,552.87	2.86	-2.84	0.84	174.88
	NORMAL	3,625.0	17.20	101.30	3,190.29	-334.28	1,545.23	1,580.97	0.48	-0.43	0.74	152.71
	NORMAL	3,720.0	14.40	100.50	3,281.69	-339.18	1,570.63	1,606.82	2.96	-2.95	-0.84	184.06
	NORMAL	3,814.0	12.10	101.00	3,373.18	-343.19	1,591.80	1,628.35	2.45	-2.45	0.53	177.39
	NORMAL	3,909.0	11.20	102.90	3,466.22	-347.15	1,610.56	1,647.53	1.03	-0.95	2.00	157.84
	NORMAL	4,003.0	9.00	95.90	3,558.76	-349.95	1,626.78	1,663.97	2.68	-2.34	-7.45	205.75
	NORMAL	4,098.0	5.70	92.90	3,652.97	-350.95	1,638.88	1,676.01	3.50	-3.47	-3.16	185.15
	NORMAL	4,192.0	3.50	79.70	3,746.66	-350.67	1,646.37	1,683.26	2.58	-2.34	-14.04	199.22
3/6/2012	NORMAL	4,287.0	1.60	74.60	3,841.56	-349.80	1,650.50	1,687.11	2.01	-2.00	-5.37	184.27
	NORMAL	4,381.0	1.60	55.50	3,935.53	-348.71	1,652.85	1,689.16	0.56	0.00	-20.32	260.45
	NORMAL	4,476.0	1.10	139.70	4,030.51	-348.66	1,654.53	1,690.79	1.94	-0.53	88.63	143.68
	NORMAL	4,570.0	1.10	164.30	4,124.49	-350.21	1,655.36	1,691.94	0.50	0.00	26.17	102.30
	NORMAL	4,665.0	1.30	185.00	4,219.47	-352.16	1,655.51	1,692.51	0.50	0.21	21.79	75.82
	NORMAL	4,759.0	0.30	278.20	4,313.46	-353.19	1,655.18	1,692.40	1.44	-1.06	99.15	167.18
	NORMAL	4,854.0	0.30	345.00	4,408.46	-352.92	1,654.87	1,692.04	0.35	0.00	70.32	123.40
	NORMAL	4,948.0	0.30	34.00	4,502.46	-352.47	1,654.94	1,692.01	0.26	0.00	52.13	114.50
	NORMAL	5,043.0	0.20	187.10	4,597.46	-352.43	1,655.06	1,692.12	0.51	-0.11	161.16	169.29
	NORMAL	5,137.0	1.00	213.00	4,691.46	-353.28	1,654.59	1,691.85	0.88	0.85	27.55	31.98
	NORMAL	5,232.0	1.10	241.40	4,786.44	-354.42	1,653.34	1,690.87	0.55	0.11	29.89	93.54
	NORMAL	5,327.0	1.90	219.50	4,881.41	-356.07	1,651.54	1,689.46	1.02	0.84	-23.05	313.09
	NORMAL	5,421.0	1.20	243.60	4,975.37	-357.71	1,649.66	1,687.99	1.00	-0.74	25.64	148.66
	NORMAL	5,516.0	1.70	234.10	5,070.34	-358.98	1,647.63	1,686.28	0.58	0.53	-10.00	329.52
	NORMAL	5,610.0	2.00	234.20	5,164.29	-360.75	1,645.17	1,684.26	0.32	0.32	0.11	0.67
	NORMAL	5,705.0	1.90	232.70	5,259.24	-362.68	1,642.57	1,682.14	0.12	-0.11	-1.58	206.29
	NORMAL	5,799.0	2.20	229.10	5,353.18	-364.80	1,639.97	1,680.05	0.35	0.32	-3.83	334.96
	NORMAL	5,894.0	2.90	244.40	5,448.09	-367.03	1,636.42	1,677.07	1.02	0.74	16.11	52.01
3/7/2012	NORMAL	5,943.0	2.90	244.40	5,497.02	-368.11	1,634.19	1,675.12	0.00	0.00	0.00	0.00

3 Charts

3.1 Vertical Section View



3.2 Plan View

