

1 General

1.1 Customer Information

Company	PICEANCE VLY
Representative	
Address	

1.2 Well Information

Well	SG 344-22	Wellbore No.	
Well Name	SG 344-22	Common Name	SG 344-22
Project	SG 23-07S-096W	Site	SG 14-23 Pad
Vertical Section Azimuth	305.65 (°)	North Reference	
Origin N/S		Origin E/W	
Spud Date	12/27/2011	UWI	SG 344-22
Active Datum	KB @5,094.0ft (above Mean Sea Level)		

2 Survey Name

2.1 Survey Name: Survey #1

Survey Name	Survey #1	Company	
Started	12/27/2011	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)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
12/27/2011	Tie On	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/27/2011	NORMAL	82.0	0.53	0.18	82.00	0.38	0.00	0.22	0.65	0.65	0.00	0.18
	NORMAL	112.0	1.67	352.18	111.99	0.95	-0.06	0.60	3.83	3.80	-26.67	348.32
	NORMAL	142.0	2.99	344.27	141.97	2.14	-0.33	1.51	4.52	4.40	-26.37	342.33
	NORMAL	173.0	3.87	338.20	172.91	3.89	-0.94	3.03	3.07	2.84	-19.58	334.53
	NORMAL	203.0	4.66	335.30	202.83	5.93	-1.82	4.94	2.73	2.63	-9.67	343.28
	NORMAL	233.0	5.19	329.68	232.72	8.21	-3.02	7.24	2.39	1.77	-18.73	314.86
	NORMAL	261.0	5.63	319.39	260.59	10.35	-4.55	9.73	3.80	1.57	-36.75	289.22
	NORMAL	293.0	5.98	312.98	292.43	12.68	-6.79	12.91	2.30	1.09	-20.03	295.15
	NORMAL	323.0	6.33	301.55	322.26	14.61	-9.34	16.11	4.24	1.17	-38.10	280.21
	NORMAL	352.0	7.39	296.89	351.05	16.29	-12.37	19.54	4.13	3.66	-16.07	329.97
	NORMAL	384.0	8.62	302.28	382.74	18.50	-16.23	23.97	4.50	3.84	16.84	34.08
	NORMAL	414.0	9.77	304.28	412.35	21.13	-20.24	28.76	3.98	3.83	6.67	16.52
	NORMAL	443.0	11.17	303.13	440.87	24.05	-24.62	34.03	4.88	4.83	-3.97	350.94
	NORMAL	459.0	11.67	303.69	456.55	25.80	-27.27	37.19	3.20	3.13	3.50	12.78
	NORMAL	488.0	12.13	301.76	484.93	29.03	-32.30	43.16	2.10	1.59	-6.66	318.19
	NORMAL	518.0	13.38	302.75	514.19	32.57	-37.90	49.78	4.23	4.17	3.30	10.40
	NORMAL	550.0	14.28	303.17	545.26	36.73	-44.32	57.42	2.83	2.81	1.31	6.57
	NORMAL	580.0	15.46	302.85	574.25	40.92	-50.77	65.11	3.94	3.93	-1.07	355.86
	NORMAL	609.0	16.13	300.64	602.16	45.07	-57.48	72.98	3.10	2.31	-7.62	317.01
	NORMAL	701.0	17.42	303.17	690.24	59.12	-80.01	99.47	1.61	1.40	2.75	30.73

2.1.2 Survey Stations (Continued)

Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
12/27/2011	NORMAL	769.0	18.50	304.12	754.93	70.74	-97.46	120.43	1.65	1.59	1.40	15.63
12/28/2011	NORMAL	878.0	18.51	303.66	858.29	90.03	-126.18	155.01	0.13	0.01	-0.42	273.70
	NORMAL	969.0	18.64	305.97	944.55	106.58	-149.97	183.98	0.82	0.14	2.54	81.08
	NORMAL	1,064.0	18.82	305.01	1,034.52	124.29	-174.81	214.49	0.38	0.19	-1.01	299.83
	NORMAL	1,158.0	18.91	304.13	1,123.47	141.53	-199.84	244.88	0.32	0.10	-0.94	287.14
	NORMAL	1,253.0	18.55	306.94	1,213.45	159.25	-224.66	275.37	1.02	-0.38	2.96	113.08
	NORMAL	1,347.0	17.85	303.86	1,302.74	176.27	-248.57	304.72	1.27	-0.74	-3.28	232.50
	NORMAL	1,442.0	18.91	305.27	1,392.90	193.27	-273.23	334.67	1.21	1.12	1.48	23.43
	NORMAL	1,536.0	19.08	305.36	1,481.78	210.95	-298.20	365.26	0.18	0.18	0.10	9.82
	NORMAL	1,631.0	18.11	306.94	1,571.82	228.81	-322.66	395.55	1.15	-1.02	1.66	153.30
	NORMAL	1,725.0	18.73	307.47	1,661.00	246.78	-346.32	425.24	0.68	0.66	0.56	15.37
	NORMAL	1,820.0	17.76	307.82	1,751.23	264.94	-369.87	454.97	1.03	-1.02	0.37	173.72
	NORMAL	1,914.0	17.15	307.38	1,840.90	282.14	-392.21	483.15	0.66	-0.65	-0.47	192.00
	NORMAL	2,009.0	17.76	308.17	1,931.52	299.60	-414.73	511.62	0.69	0.64	0.83	21.61
	NORMAL	2,103.0	16.44	306.14	2,021.37	316.31	-436.74	539.25	1.54	-1.40	-2.16	203.36
	NORMAL	2,198.0	16.71	307.73	2,112.42	332.59	-458.40	566.34	0.56	0.28	1.67	60.00
12/29/2011	NORMAL	2,292.0	16.36	307.03	2,202.53	348.84	-479.66	593.08	0.43	-0.37	-0.74	209.31
	NORMAL	2,387.0	15.04	308.02	2,293.98	364.49	-500.05	618.77	1.42	-1.39	1.04	169.00
	NORMAL	2,481.0	14.51	308.91	2,384.88	379.39	-518.82	642.71	0.61	-0.56	0.95	157.25
	NORMAL	2,575.0	14.13	308.76	2,475.96	393.97	-536.93	665.93	0.41	-0.40	-0.16	185.50
	NORMAL	2,670.0	14.01	308.51	2,568.11	408.39	-554.97	688.99	0.14	-0.13	-0.26	206.74
	NORMAL	2,764.0	12.13	308.35	2,659.67	421.61	-571.62	710.22	2.00	-2.00	-0.17	181.02
	NORMAL	2,859.0	10.38	309.93	2,752.84	433.30	-586.01	728.73	1.87	-1.84	1.66	170.78
	NORMAL	2,953.0	8.79	309.49	2,845.52	443.30	-598.05	744.34	1.69	-1.69	-0.47	182.42
	NORMAL	3,048.0	8.17	307.69	2,939.48	452.04	-608.99	758.33	0.71	-0.65	-1.89	202.29
	NORMAL	3,143.0	6.86	313.09	3,033.66	460.05	-618.48	770.70	1.57	-1.38	5.68	154.33
	NORMAL	3,237.0	4.81	310.45	3,127.17	466.44	-625.58	780.20	2.20	-2.18	-2.81	186.15
	NORMAL	3,332.0	3.34	312.13	3,221.93	470.88	-630.66	786.92	1.55	-1.55	1.77	176.19
	NORMAL	3,426.0	1.14	325.13	3,315.85	473.48	-633.23	790.52	2.39	-2.34	13.83	173.44
	NORMAL	3,520.0	0.79	157.79	3,409.85	473.65	-633.52	790.85	2.04	-0.37	-178.02	185.18
	NORMAL	3,615.0	1.06	178.27	3,504.84	472.17	-633.24	789.76	0.45	0.28	21.56	61.30
	NORMAL	3,710.0	1.06	194.62	3,599.82	470.44	-633.44	788.91	0.32	0.00	17.21	98.17
	NORMAL	3,804.0	1.32	272.75	3,693.80	469.65	-634.74	789.51	1.61	0.28	83.12	121.39
	NORMAL	3,898.0	1.41	270.03	3,787.78	469.70	-636.98	791.36	0.12	0.10	-2.89	322.88
	NORMAL	3,993.0	0.88	313.27	3,882.76	470.20	-638.68	793.03	1.03	-0.56	45.52	141.90
	NORMAL	4,088.0	0.79	51.18	3,977.75	471.11	-638.70	793.58	1.33	-0.09	103.06	141.64
12/30/2011	NORMAL	4,182.0	1.04	59.61	4,071.74	471.95	-637.46	793.06	0.30	0.27	8.97	32.56
	NORMAL	4,277.0	1.06	98.99	4,166.73	472.25	-635.85	791.93	0.75	0.02	41.45	108.16
	NORMAL	4,371.0	0.90	106.22	4,260.71	471.91	-634.28	790.45	0.21	-0.17	7.69	145.88
	NORMAL	4,466.0	1.11	121.57	4,355.70	471.22	-632.78	788.83	0.36	0.22	16.16	59.89
	NORMAL	4,560.0	1.06	136.17	4,449.68	470.11	-631.40	787.07	0.30	-0.05	15.53	107.50
	NORMAL	4,655.0	1.38	145.05	4,544.66	468.54	-630.14	785.13	0.39	0.34	9.35	35.07
	NORMAL	4,749.0	1.47	179.24	4,638.63	466.41	-629.47	783.34	0.90	0.10	36.37	101.23
	NORMAL	4,844.0	2.39	192.95	4,733.58	463.26	-629.90	781.85	1.08	0.97	14.43	33.61
	NORMAL	4,938.0	2.96	216.56	4,827.48	459.40	-631.79	781.14	1.31	0.61	25.12	74.77
12/31/2011	NORMAL	5,033.0	3.58	216.19	4,922.32	455.03	-635.00	781.20	0.65	0.65	-0.39	357.87
	NORMAL	5,127.0	2.79	233.18	5,016.18	451.29	-638.56	781.92	1.30	-0.84	18.07	138.20
	NORMAL	5,222.0	2.99	240.06	5,111.06	448.67	-642.56	783.64	0.42	0.21	7.24	63.50
	NORMAL	5,294.0	3.52	238.30	5,182.94	446.57	-646.07	785.27	0.75	0.74	-2.44	348.44
	NORMAL	5,353.0	3.52	238.30	5,241.83	444.67	-649.15	786.66	0.00	0.00	0.00	0.00