

1 General

1.1 Customer Information

Company	PICEANCE VLY
Representative	
Address	

1.2 Well Information

Well	SG 313-27	Wellbore No.	
Well Name	SG 313-27	Common Name	SG 313-27
Project	SG 27-07S-096W	Site	SG 24-27 Pad
Vertical Section	306.25 (°)	North Reference	True
Azimuth		Origin E/W	
Origin N/S		UWI	SG 313-27
Spud Date	5/1/2012		
Active Datum	KB @5,038.0ft (above Mean Sea Level)		

2 Survey Name

2.1 Survey Name: Survey #1

Survey Name	Survey #1	Company	
Date Started	5/1/2012	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 (°)
5/1/2012	Tie On	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/2012	NORMAL	67.0	0.35	221.66	67.00	-0.15	-0.14	0.02	0.52	0.52	0.00	221.66
	NORMAL	168.0	2.46	305.51	167.97	0.88	-2.11	2.22	2.42	2.09	83.02	92.02
	NORMAL	259.0	5.37	306.65	258.75	4.55	-7.11	8.43	3.20	3.20	1.25	2.10
	NORMAL	350.0	8.45	308.14	349.07	11.23	-15.79	19.37	3.39	3.38	1.64	4.07
5/2/2012	NORMAL	421.0	9.89	308.37	419.16	18.23	-24.67	30.68	2.03	2.03	0.32	1.57
	NORMAL	512.0	11.65	305.78	508.56	28.46	-38.26	47.68	2.01	1.93	-2.85	343.35
	NORMAL	603.0	13.76	305.61	597.33	40.13	-54.51	67.69	2.32	2.32	-0.19	358.90
	NORMAL	694.0	17.06	306.55	685.04	54.39	-74.04	91.87	3.64	3.63	1.03	4.78
	NORMAL	785.0	19.99	307.58	771.32	71.83	-97.09	120.77	3.24	3.22	1.13	6.86
	NORMAL	876.0	22.35	305.57	856.17	91.38	-123.50	153.63	2.71	2.59	-2.21	341.96
	NORMAL	968.0	24.70	304.82	940.52	112.53	-153.51	190.34	2.57	2.55	-0.82	352.40
	NORMAL	1,063.0	27.85	306.08	1,025.69	136.94	-187.75	232.38	3.37	3.32	1.33	10.61
	NORMAL	1,159.0	29.90	304.97	1,109.75	163.86	-225.48	278.73	2.21	2.14	-1.16	344.86
	NORMAL	1,254.0	32.73	308.11	1,190.91	193.29	-265.10	328.09	3.44	2.98	3.31	31.32
	NORMAL	1,297.0	34.56	309.19	1,226.71	208.18	-283.70	351.89	4.48	4.26	2.51	18.56
5/3/2012	NORMAL	1,442.0	36.05	308.92	1,345.04	260.97	-348.78	435.59	1.03	1.03	-0.19	353.91
	NORMAL	1,537.0	35.58	306.43	1,422.08	294.95	-392.77	491.15	1.61	-0.49	-2.62	251.12
	NORMAL	1,632.0	34.66	305.27	1,499.78	326.96	-437.06	545.80	1.20	-0.97	-1.22	215.48
	NORMAL	1,727.0	32.01	304.70	1,579.15	356.89	-479.82	597.99	2.81	-2.79	-0.60	186.50
	NORMAL	1,822.0	30.01	305.58	1,660.56	385.05	-519.85	646.91	2.16	-2.11	0.93	167.60

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 (°)
5/3/2012	NORMAL	1,917.0	28.75	305.06	1,743.34	412.00	-557.87	693.51	1.35	-1.33	-0.55	191.22
	NORMAL	2,013.0	26.82	304.62	1,828.27	437.57	-594.60	738.25	2.02	-2.01	-0.46	185.87
	NORMAL	2,108.0	25.58	304.78	1,913.51	461.45	-629.08	780.18	1.31	-1.31	0.17	176.81
	NORMAL	2,203.0	25.17	308.24	1,999.35	485.65	-661.79	820.87	1.62	-0.43	3.64	107.02
	NORMAL	2,298.0	23.11	308.22	2,086.04	509.69	-692.31	859.70	2.17	-2.17	-0.02	180.22
	NORMAL	2,392.0	21.94	311.47	2,172.87	532.74	-719.97	895.62	1.82	-1.24	3.46	134.71
	NORMAL	2,486.0	20.19	311.33	2,260.58	555.08	-745.31	929.27	1.86	-1.86	-0.15	181.58
	NORMAL	2,582.0	17.67	309.59	2,351.38	575.31	-768.98	960.32	2.69	-2.63	-1.81	191.80
	NORMAL	2,677.0	15.21	309.31	2,442.49	592.39	-789.74	987.17	2.59	-2.59	-0.29	181.71
	NORMAL	2,772.0	13.51	310.82	2,534.52	607.54	-807.78	1,010.67	1.83	-1.79	1.59	168.31
	NORMAL	2,868.0	12.32	308.36	2,628.09	621.23	-824.29	1,032.09	1.37	-1.24	-2.56	203.60
5/4/2012	NORMAL	2,963.0	10.85	303.88	2,721.16	632.51	-839.67	1,051.15	1.81	-1.55	-4.72	209.29
	NORMAL	3,058.0	9.43	305.05	2,814.67	641.96	-853.46	1,067.87	1.51	-1.49	1.23	172.32
	NORMAL	3,153.0	7.60	301.98	2,908.62	649.76	-865.16	1,081.91	1.98	-1.93	-3.23	192.44
	NORMAL	3,248.0	6.09	302.22	3,002.94	655.77	-874.75	1,093.21	1.59	-1.59	0.25	179.03
	NORMAL	3,343.0	4.03	302.97	3,097.56	660.28	-881.82	1,101.57	2.17	-2.17	0.79	178.53
	NORMAL	3,439.0	2.49	312.70	3,193.41	663.53	-886.18	1,107.01	1.70	-1.60	10.14	165.05
	NORMAL	3,534.0	2.02	321.36	3,288.33	666.23	-888.74	1,110.67	0.61	-0.49	9.12	148.33
	NORMAL	3,629.0	0.91	285.77	3,383.30	667.75	-890.52	1,113.00	1.46	-1.17	-37.46	202.48
	NORMAL	3,724.0	0.90	266.25	3,478.29	667.90	-891.99	1,114.27	0.32	-0.01	-20.55	258.40
	NORMAL	3,820.0	0.38	37.28	3,574.29	668.11	-892.55	1,114.85	1.23	-0.54	136.49	166.00
	NORMAL	3,915.0	0.57	72.03	3,669.28	668.50	-891.91	1,114.56	0.35	0.20	36.58	74.79
	NORMAL	4,010.0	0.47	66.47	3,764.28	668.80	-891.10	1,114.09	0.12	-0.11	-5.85	204.01
	NORMAL	4,106.0	0.41	65.88	3,860.28	669.10	-890.42	1,113.72	0.06	-0.06	-0.61	184.02
	NORMAL	4,201.0	0.18	138.89	3,955.28	669.13	-890.02	1,113.41	0.42	-0.24	76.85	154.28
	NORMAL	4,296.0	0.24	183.89	4,050.28	668.82	-889.93	1,113.16	0.18	0.06	47.37	93.47
	NORMAL	4,391.0	0.20	233.64	4,145.28	668.52	-890.08	1,113.10	0.20	-0.04	52.37	125.97
	NORMAL	4,486.0	0.12	185.54	4,240.27	668.32	-890.22	1,113.10	0.16	-0.08	-50.63	216.69
	NORMAL	4,581.0	0.26	205.91	4,335.27	668.03	-890.32	1,113.01	0.16	0.15	21.44	36.18
	NORMAL	4,676.0	0.08	148.15	4,430.27	667.78	-890.38	1,112.91	0.24	-0.19	-60.80	197.29
	NORMAL	4,772.0	0.48	339.61	4,526.27	668.10	-890.49	1,113.18	0.58	0.42	-175.56	189.83
	NORMAL	4,867.0	0.70	344.17	4,621.27	669.03	-890.79	1,113.97	0.24	0.23	4.80	14.33
	NORMAL	4,962.0	0.88	353.48	4,716.26	670.31	-891.03	1,114.93	0.23	0.19	9.80	40.21
	NORMAL	5,058.0	0.97	318.15	4,812.25	671.65	-891.65	1,116.22	0.59	0.09	-36.80	261.02
	NORMAL	5,195.0	0.68	287.52	4,949.23	672.76	-893.20	1,118.13	0.38	-0.21	-22.36	221.99
	NORMAL	5,260.0	0.54	273.00	5,014.23	672.89	-893.88	1,118.75	0.32	-0.22	-22.34	220.73