

1 General

1.1 Customer Information

Company	PICEANCE VLY
Representative	
Address	

1.2 Well Information

Well	SG 331-27	Wellbore No.	
Well Name	SG 331-27	Common Name	SG 331-27
Project	SG 27-07S-096W	Site	SG 41-27 Pad
Vertical Section Azimuth	249.86 (°)	North Reference	
Origin N/S		Origin E/W	
Spud Date	10/5/2011	UWI	SG 331-27
Active Datum	KB @5,109.0ft (above Mean Sea Level)		

2 Survey Name

2.1 Survey Name: Survey #1

Survey Name	Survey #1	Company	
Started	10/5/2011	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 (°)
10/5/2011	Tie On	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/5/2011	NORMAL	69.0	0.18	6.33	69.00	0.11	0.01	-0.05	0.26	0.26	0.00	6.33
	NORMAL	161.0	2.55	280.99	160.97	0.64	-1.98	1.64	2.76	2.58	-92.76	270.62
	NORMAL	253.0	4.84	271.58	252.77	1.14	-7.87	7.00	2.57	2.49	-10.23	340.44
	NORMAL	344.0	6.77	268.15	343.30	1.07	-17.07	15.66	2.15	2.12	-3.77	348.10
10/6/2011	NORMAL	435.0	8.27	261.30	433.52	-0.09	-28.90	27.17	1.92	1.65	-7.53	325.71
	NORMAL	527.0	9.50	260.16	524.41	-2.39	-42.92	41.12	1.35	1.34	-1.24	351.29
	NORMAL	619.0	9.85	257.26	615.10	-5.42	-58.08	56.40	0.65	0.38	-3.15	304.25
	NORMAL	710.0	11.26	256.20	704.56	-9.26	-74.30	72.94	1.56	1.55	-1.16	351.64
	NORMAL	781.0	12.37	254.37	774.06	-12.96	-88.36	87.42	1.65	1.56	-2.58	340.45
	NORMAL	873.0	13.89	249.42	863.65	-19.50	-108.19	108.28	2.05	1.65	-5.38	321.08
	NORMAL	964.0	15.43	247.22	951.69	-28.03	-129.57	131.30	1.80	1.69	-2.42	339.06
	NORMAL	1,058.0	17.25	250.08	1,041.89	-37.62	-154.21	157.73	2.12	1.94	3.04	25.23
	NORMAL	1,152.0	18.38	248.68	1,131.38	-47.75	-181.12	186.49	1.29	1.20	-1.49	338.57
	NORMAL	1,246.0	19.95	249.04	1,220.17	-58.88	-209.90	217.34	1.67	1.67	0.38	4.48
	NORMAL	1,341.0	21.62	246.71	1,308.98	-71.60	-241.12	251.02	1.96	1.76	-2.45	332.57
	NORMAL	1,435.0	23.63	244.00	1,395.75	-86.71	-273.96	287.06	2.41	2.14	-2.88	331.33
10/8/2011	NORMAL	1,531.0	24.79	245.02	1,483.30	-103.64	-309.50	326.26	1.28	1.21	1.06	20.29
	NORMAL	1,625.0	22.85	245.55	1,569.29	-119.52	-343.98	364.10	2.08	-2.06	0.56	173.95
	NORMAL	1,720.0	21.09	245.37	1,657.39	-134.28	-376.31	399.53	1.85	-1.85	-0.19	182.11
	NORMAL	1,814.0	20.04	247.13	1,745.40	-147.58	-406.52	432.48	1.30	-1.12	1.87	150.33

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 (°)
10/8/2011	NORMAL	1,908.0	18.72	251.26	1,834.08	-158.69	-435.65	463.65	2.02	-1.40	4.39	135.86
	NORMAL	2,002.0	18.85	251.26	1,923.07	-168.42	-464.31	493.91	0.14	0.14	0.00	0.00
	NORMAL	2,097.0	17.01	248.89	2,013.45	-178.35	-491.81	523.15	2.08	-1.94	-2.49	200.51
10/9/2011	NORMAL	2,191.0	17.18	249.15	2,103.30	-188.25	-517.61	550.78	0.20	0.18	0.28	24.33
	NORMAL	2,285.0	15.12	249.76	2,193.58	-197.43	-542.09	576.92	2.20	-2.19	0.65	175.58
	NORMAL	2,380.0	14.68	249.68	2,285.39	-205.90	-565.00	601.35	0.46	-0.46	-0.08	182.64
	NORMAL	2,474.0	14.41	249.15	2,376.38	-214.19	-587.10	624.96	0.32	-0.29	-0.56	205.99
	NORMAL	2,568.0	12.30	250.03	2,467.83	-221.78	-607.45	646.67	2.26	-2.24	0.94	174.93
	NORMAL	2,662.0	12.00	249.06	2,559.72	-228.69	-625.98	666.45	0.39	-0.32	-1.03	213.76
	NORMAL	2,757.0	9.80	249.50	2,653.01	-235.05	-642.78	684.41	2.32	-2.32	0.46	178.05
	NORMAL	2,851.0	9.50	248.90	2,745.68	-240.65	-657.51	700.17	0.34	-0.32	-0.64	198.24
	NORMAL	2,945.0	7.91	248.18	2,838.59	-245.84	-670.76	714.39	1.70	-1.69	-0.77	183.56
	NORMAL	3,039.0	7.78	249.24	2,931.71	-250.50	-682.71	727.22	0.21	-0.14	1.13	132.46
	NORMAL	3,133.0	5.98	249.85	3,025.03	-254.44	-693.26	738.48	1.92	-1.91	0.65	177.98
	NORMAL	3,228.0	5.58	248.01	3,119.55	-257.88	-702.19	748.04	0.46	-0.42	-1.94	203.94
	NORMAL	3,322.0	4.17	244.84	3,213.20	-261.04	-709.52	756.01	1.53	-1.50	-3.37	189.24
	NORMAL	3,416.0	3.16	259.17	3,307.01	-262.98	-715.16	761.98	1.44	-1.07	15.24	144.79
	NORMAL	3,510.0	2.20	273.58	3,400.91	-263.36	-719.50	766.18	1.24	-1.02	15.33	151.99
NORMAL	3,604.0	2.24	282.11	3,494.84	-262.86	-723.10	769.39	0.35	0.04	9.07	87.37	
NORMAL	3,699.0	2.15	322.10	3,589.77	-261.06	-726.01	771.50	1.58	-0.09	42.09	113.21	
NORMAL	3,793.0	2.15	320.43	3,683.71	-258.31	-728.21	772.63	0.07	0.00	-1.78	269.17	
NORMAL	3,887.0	1.93	313.94	3,777.65	-255.85	-730.48	773.91	0.34	-0.23	-6.90	223.19	
NORMAL	3,981.0	1.67	300.13	3,871.60	-254.07	-732.80	775.47	0.54	-0.28	-14.69	232.28	
NORMAL	4,075.0	1.10	252.40	3,965.58	-253.65	-734.85	777.25	1.31	-0.61	-50.78	221.19	
NORMAL	4,169.0	1.23	252.31	4,059.56	-254.23	-736.67	779.16	0.14	0.14	-0.10	359.15	
NORMAL	4,264.0	0.26	249.85	4,154.55	-254.62	-737.84	780.39	1.02	-1.02	-2.59	180.66	
NORMAL	4,358.0	0.40	243.17	4,248.55	-254.84	-738.33	780.93	0.15	0.15	-7.11	341.28	
NORMAL	4,452.0	0.70	255.39	4,342.54	-255.13	-739.18	781.83	0.34	0.32	13.00	27.54	
NORMAL	4,546.0	1.01	250.91	4,436.53	-255.55	-740.52	783.23	0.34	0.33	-4.77	345.58	
NORMAL	4,640.0	0.62	237.99	4,530.52	-256.09	-741.74	784.56	0.46	-0.41	-13.74	198.87	
10/10/2011	NORMAL	4,734.0	0.83	254.86	4,624.52	-256.54	-742.82	785.73	0.32	0.22	17.95	54.11
	NORMAL	4,829.0	1.27	268.57	4,719.50	-256.74	-744.54	787.42	0.53	0.46	14.43	36.70
	NORMAL	4,923.0	0.75	228.58	4,813.49	-257.17	-746.04	788.98	0.90	-0.55	-42.54	214.73
	NORMAL	5,017.0	1.05	206.35	4,907.47	-258.35	-746.89	790.17	0.48	0.32	-23.65	299.20
	NORMAL	5,111.0	1.32	203.97	5,001.45	-260.11	-747.71	791.55	0.29	0.29	-2.53	348.48
	NORMAL	5,205.0	1.71	203.53	5,095.42	-262.39	-748.71	793.27	0.42	0.41	-0.47	358.07
10/11/2011	NORMAL	5,260.0	1.71	203.53	5,150.40	-263.89	-749.36	794.41	0.00	0.00	0.00	0.00