

## 1 General

### 1.1 Customer Information

Company	PICEANCE VLY
Representative	
Address	

### 1.2 Well Information

Well	SG 314-27	Wellbore No.	1
Well Name	SG 314-27	Common Name	SG 314-27
Project	SG 27-07S-096W	Site	SG 24-27 Pad
Vertical Section Azimuth	254.88 (°)	North Reference	True
Origin N/S		Origin E/W	
Spud Date	6/2/2012	UWI	SG 314-27
Active Datum	KP @5,038.0ft (above Mean Sea Level)		

## 2 Survey Name

### 2.1 Survey Name: Survey #1

Survey Name	Survey #1	Company	Scientific Drilling
Date Started	6/2/2012	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 (°)
6/2/2012	Tie On	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/2/2012	NORMAL	72.0	0.79	193.97	72.00	-0.48	-0.12	0.24	1.10	1.10	0.00	193.97
	NORMAL	164.0	2.11	263.58	163.97	-1.29	-1.96	2.22	2.15	1.43	75.66	91.58
	NORMAL	255.0	4.84	256.38	254.80	-2.38	-7.35	7.72	3.03	3.00	-7.91	347.31
	NORMAL	346.0	8.97	254.88	345.12	-5.13	-17.94	18.66	4.54	4.54	-1.65	356.75
	NORMAL	437.0	12.23	260.42	434.55	-8.59	-34.29	35.35	3.75	3.58	6.09	20.10
6/4/2012	NORMAL	528.0	14.43	259.19	523.10	-12.32	-54.94	56.25	2.44	2.42	-1.35	352.06
	NORMAL	620.0	17.16	255.41	611.62	-17.89	-79.34	81.26	3.17	2.97	-4.11	337.52
	NORMAL	710.0	19.62	253.48	697.01	-25.53	-106.68	109.64	2.82	2.73	-2.14	345.18
	NORMAL	787.0	22.20	252.95	768.94	-33.48	-132.98	137.11	3.36	3.35	-0.69	355.56
	NORMAL	879.0	24.85	253.59	853.28	-44.03	-168.15	173.82	2.89	2.88	0.70	5.80
	NORMAL	900.0	25.30	254.31	872.30	-46.49	-176.70	182.71	2.59	2.14	3.43	34.47
	NORMAL	996.0	25.29	253.58	959.10	-57.84	-216.12	223.73	0.33	-0.01	-0.76	267.83
	NORMAL	1,060.0	25.08	253.13	1,017.02	-65.64	-242.21	250.95	0.44	-0.33	-0.70	222.16
	NORMAL	1,155.0	23.32	253.39	1,103.66	-76.86	-279.50	289.88	1.86	-1.85	0.27	176.65
	NORMAL	1,251.0	23.78	254.62	1,191.67	-87.42	-316.38	328.23	0.70	0.48	1.28	47.46
	NORMAL	1,346.0	25.73	254.49	1,277.94	-98.02	-354.72	368.00	2.05	2.05	-0.14	358.34
	NORMAL	1,441.0	26.18	254.74	1,363.35	-109.05	-394.81	409.58	0.49	0.47	0.26	13.78
	NORMAL	1,537.0	26.52	254.67	1,449.38	-120.29	-435.91	452.19	0.36	0.35	-0.07	354.75
	NORMAL	1,631.0	25.58	255.84	1,533.83	-130.80	-475.82	493.47	1.14	-1.00	1.24	151.86
	NORMAL	1,726.0	25.51	256.12	1,619.54	-140.73	-515.57	534.43	0.15	-0.07	0.29	120.23

## 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 (°)
6/4/2012	NORMAL	1,822.0	24.36	256.68	1,706.59	-150.25	-554.90	574.88	1.22	-1.20	0.58	168.65
	NORMAL	1,917.0	23.86	256.74	1,793.30	-159.17	-592.67	613.67	0.53	-0.53	0.06	177.22
	NORMAL	2,012.0	22.58	254.13	1,880.61	-168.56	-628.92	651.11	1.73	-1.35	-2.75	217.60
	NORMAL	2,107.0	20.81	253.04	1,968.88	-178.47	-662.61	686.22	1.91	-1.86	-1.15	192.32
	NORMAL	2,203.0	19.44	253.54	2,059.01	-187.98	-694.24	719.24	1.44	-1.43	0.52	173.08
	NORMAL	2,297.0	18.42	257.37	2,147.93	-195.66	-723.74	749.72	1.71	-1.09	4.07	131.18
6/5/2012	NORMAL	2,392.0	17.11	254.99	2,238.40	-202.56	-751.88	778.69	1.58	-1.38	-2.51	207.87
	NORMAL	2,486.0	14.56	254.98	2,328.85	-209.20	-776.66	804.34	2.71	-2.71	-0.01	180.06
	NORMAL	2,581.0	14.31	252.79	2,420.83	-215.77	-799.40	828.01	0.63	-0.26	-2.31	244.34
	NORMAL	2,677.0	13.04	253.39	2,514.11	-222.38	-821.11	850.69	1.33	-1.32	0.63	173.92
	NORMAL	2,772.0	10.49	255.53	2,607.10	-227.60	-839.76	870.06	2.72	-2.68	2.25	171.34
	NORMAL	2,868.0	9.15	254.87	2,701.69	-231.78	-855.59	886.43	1.40	-1.40	-0.69	184.48
	NORMAL	2,963.0	7.82	253.87	2,795.65	-235.54	-869.09	900.45	1.41	-1.40	-1.05	185.84
	NORMAL	3,058.0	7.67	253.47	2,889.79	-239.14	-881.38	913.25	0.17	-0.16	-0.42	199.57
	NORMAL	3,153.0	6.40	253.36	2,984.07	-242.46	-892.53	924.88	1.34	-1.34	-0.12	180.55
	NORMAL	3,248.0	4.53	260.11	3,078.63	-244.63	-901.30	933.91	2.08	-1.97	7.11	164.37
	NORMAL	3,343.0	4.47	253.60	3,173.34	-246.31	-908.55	941.34	0.54	-0.06	-6.85	260.06
	NORMAL	3,439.0	3.40	259.23	3,269.11	-247.90	-914.93	947.92	1.18	-1.11	5.86	162.94
	NORMAL	3,534.0	1.35	250.39	3,364.03	-248.80	-918.75	951.85	2.19	-2.16	-9.31	185.73
	NORMAL	3,629.0	1.52	247.51	3,459.00	-249.66	-920.97	954.21	0.19	0.18	-3.03	335.57
	NORMAL	3,724.0	1.28	217.70	3,553.97	-250.98	-922.79	956.31	0.80	-0.25	-31.38	237.25
	NORMAL	3,819.0	0.78	272.15	3,648.96	-251.80	-924.08	957.77	1.10	-0.53	57.32	142.48
	NORMAL	3,915.0	1.11	252.14	3,744.94	-252.06	-925.62	959.32	0.48	0.34	-20.84	304.70
	NORMAL	4,010.0	1.63	230.51	3,839.92	-253.20	-927.54	961.47	0.76	0.55	-22.77	304.00
	NORMAL	4,105.0	1.91	293.65	3,934.88	-253.43	-930.03	963.94	1.97	0.29	66.46	114.22
	NORMAL	4,200.0	1.23	256.85	4,029.85	-253.02	-932.47	966.19	1.24	-0.72	-38.74	218.54
	NORMAL	4,296.0	1.06	238.42	4,125.83	-253.72	-934.23	968.07	0.42	-0.18	-19.20	236.20
	NORMAL	4,391.0	0.34	275.82	4,220.82	-254.15	-935.26	969.18	0.86	-0.76	39.37	165.35
	NORMAL	4,486.0	0.09	295.60	4,315.82	-254.09	-935.61	969.50	0.27	-0.26	20.82	173.20
	NORMAL	4,581.0	0.38	141.52	4,410.82	-254.31	-935.48	969.43	0.49	0.31	-162.19	201.04
	NORMAL	4,676.0	0.21	189.39	4,505.82	-254.73	-935.31	969.38	0.30	-0.18	50.39	146.92
	NORMAL	4,772.0	0.35	192.12	4,601.82	-255.19	-935.40	969.59	0.15	0.15	2.84	6.81
	NORMAL	4,866.0	0.44	163.21	4,695.81	-255.81	-935.36	969.71	0.23	0.10	-30.76	279.39
	NORMAL	4,966.0	0.44	163.21	4,795.81	-256.55	-935.14	969.68	0.00	0.00	0.00	0.00
	NORMAL	5,057.0	0.91	181.68	4,886.80	-257.60	-935.06	969.88	0.56	0.52	20.30	34.27
	NORMAL	5,075.0	0.83	190.34	4,904.80	-257.88	-935.09	969.98	0.85	-0.44	48.11	125.60
	NORMAL	5,140.0	0.53	223.07	4,969.80	-258.56	-935.38	970.44	0.74	-0.46	50.35	143.28