

1 General

1.1 Customer Information

Company	PICEANCE VLY
Representative	
Address	

1.2 Well Information

Well	SG 534-27	Wellbore No.	
Well Name	SG 534-27	Common Name	SG 534-27
Project	SG 27-07S-096W	Site	SG 24-27 Pad
Vertical Section Azimuth	131.61 (°)	North Reference	True
Origin N/S		Origin E/W	
Spud Date	6/16/2012	UWI	SG 534-27
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	6/16/2012	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 (°)
6/16/2012	Tie On	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/16/2012	NORMAL	111.0	1.23	168.05	110.99	-1.17	0.25	0.96	1.11	1.11	0.00	168.05
	NORMAL	172.0	2.64	150.38	171.96	-3.03	1.08	2.82	2.48	2.31	-28.97	328.07
	NORMAL	264.0	5.89	130.34	263.69	-7.93	5.72	9.54	3.83	3.53	-21.78	325.14
	NORMAL	355.0	11.00	133.59	353.68	-16.94	15.58	22.90	5.64	5.62	3.57	6.95
	NORMAL	446.0	15.31	130.61	442.27	-30.75	30.99	43.60	4.79	4.74	-3.27	349.60
	NORMAL	537.0	18.56	130.61	529.31	-48.01	51.11	70.09	3.57	3.57	0.00	0.00
	NORMAL	613.0	20.65	131.56	600.90	-64.77	70.33	95.59	2.78	2.75	1.25	9.12
	NORMAL	704.0	23.46	133.25	685.23	-87.83	95.53	129.75	3.17	3.09	1.86	13.51
	NORMAL	796.0	25.65	132.01	768.91	-113.71	123.67	167.97	2.45	2.38	-1.35	346.19
	NORMAL	887.0	28.66	130.07	849.87	-140.94	155.01	209.49	3.45	3.31	-2.13	342.74
	NORMAL	978.0	31.91	128.49	928.44	-169.97	190.55	255.34	3.68	3.57	-1.74	345.54
	NORMAL	1,074.0	36.13	128.58	1,007.99	-203.42	232.55	308.96	4.40	4.40	0.09	0.72
	NORMAL	1,169.0	39.74	131.03	1,082.91	-240.84	277.37	367.31	4.12	3.80	2.58	23.62
	NORMAL	1,215.0	41.12	130.83	1,117.93	-260.38	299.91	397.14	3.01	3.00	-0.43	354.55
6/17/2012	NORMAL	1,346.0	43.88	131.15	1,214.50	-318.43	366.70	485.63	2.11	2.11	0.24	4.60
	NORMAL	1,441.0	44.24	130.70	1,282.77	-361.71	416.61	551.69	0.50	0.38	-0.47	318.84
	NORMAL	1,536.0	42.14	132.02	1,352.03	-404.66	465.42	616.70	2.41	-2.21	1.39	157.20
	NORMAL	1,631.0	39.39	132.57	1,423.98	-446.39	511.31	678.72	2.92	-2.89	0.58	172.77
	NORMAL	1,726.0	36.99	131.73	1,498.64	-485.81	554.84	737.45	2.58	-2.53	-0.88	191.88
	NORMAL	1,821.0	35.59	132.23	1,575.21	-523.42	596.64	793.67	1.51	-1.47	0.53	168.27

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 (°)
6/17/2012	NORMAL	1,917.0	33.78	132.31	1,654.15	-560.16	637.06	848.30	1.89	-1.89	0.08	178.59
6/18/2012	NORMAL	2,012.0	32.14	131.01	1,733.86	-594.52	675.67	899.98	1.88	-1.73	-1.37	202.78
	NORMAL	2,107.0	29.95	130.38	1,815.24	-626.47	712.80	948.96	2.33	-2.31	-0.66	188.17
	NORMAL	2,202.0	28.74	132.49	1,898.05	-657.26	747.71	995.51	1.68	-1.27	2.22	140.40
	NORMAL	2,297.0	26.87	131.66	1,982.08	-686.96	780.60	1,039.82	2.01	-1.97	-0.87	191.33
	NORMAL	2,391.0	24.57	131.42	2,066.76	-714.02	811.13	1,080.61	2.45	-2.45	-0.26	182.48
	NORMAL	2,486.0	22.52	131.70	2,153.85	-739.19	839.52	1,118.56	2.16	-2.16	0.29	177.01
	NORMAL	2,581.0	20.94	130.86	2,242.10	-762.40	865.95	1,153.73	1.70	-1.66	-0.88	190.75
	NORMAL	2,676.0	18.97	132.66	2,331.39	-783.97	890.14	1,186.14	2.17	-2.07	1.89	163.52
	NORMAL	2,772.0	17.12	130.51	2,422.66	-803.72	912.36	1,215.88	2.05	-1.93	-2.24	198.78
	NORMAL	2,867.0	15.56	130.62	2,513.82	-821.10	932.67	1,242.60	1.64	-1.64	0.12	178.92
	NORMAL	2,962.0	13.42	131.59	2,605.80	-836.72	950.59	1,266.36	2.27	-2.25	1.02	174.00
	NORMAL	3,058.0	11.34	131.63	2,699.56	-850.38	965.97	1,286.95	2.17	-2.17	0.04	179.78
	NORMAL	3,153.0	9.78	133.01	2,792.95	-862.09	978.86	1,304.35	1.66	-1.64	1.45	171.47
	NORMAL	3,248.0	9.54	132.08	2,886.60	-872.87	990.60	1,320.29	0.30	-0.25	-0.98	212.58
	NORMAL	3,343.0	7.55	129.85	2,980.54	-882.15	1,001.24	1,334.40	2.12	-2.09	-2.35	188.35
	NORMAL	3,438.0	6.05	131.04	3,074.87	-889.44	1,009.80	1,345.65	1.59	-1.58	1.25	175.22
	NORMAL	3,534.0	3.84	129.45	3,170.51	-894.80	1,016.10	1,353.92	2.31	-2.30	-1.66	182.76
	NORMAL	3,629.0	2.05	137.06	3,265.38	-898.07	1,019.72	1,358.79	1.92	-1.88	8.01	171.46
	NORMAL	3,724.0	1.65	154.21	3,360.33	-900.54	1,021.47	1,361.74	0.00	0.00	0.00	0.00
	NORMAL	3,724.0	1.65	154.21	3,360.33	-900.54	1,021.47	1,361.74	0.71	-0.42	18.05	134.21
	NORMAL	3,819.0	1.78	157.94	3,455.29	-903.14	1,022.62	1,364.33	0.18	0.14	3.93	42.53
	NORMAL	3,914.0	1.44	129.19	3,550.25	-905.26	1,024.10	1,366.84	0.91	-0.36	-30.26	233.24
	NORMAL	4,010.0	1.77	58.31	3,646.22	-905.25	1,026.29	1,368.48	1.96	0.34	-73.83	242.79
	NORMAL	4,105.0	2.53	55.20	3,741.15	-903.28	1,029.26	1,369.39	0.81	0.80	-3.27	349.72
	NORMAL	4,200.0	1.35	86.97	3,836.10	-902.02	1,032.10	1,370.68	1.64	-1.24	33.44	152.78
	NORMAL	4,296.0	0.70	133.60	3,932.09	-902.37	1,033.66	1,372.07	1.05	-0.68	48.57	149.66
	NORMAL	4,390.0	0.57	139.05	4,026.08	-903.12	1,034.38	1,373.11	0.15	-0.14	5.80	157.79
	NORMAL	4,486.0	0.78	138.25	4,122.07	-903.96	1,035.13	1,374.23	0.22	0.22	-0.83	357.03
6/19/2012	NORMAL	4,581.0	0.71	138.69	4,217.07	-904.89	1,035.95	1,375.46	0.07	-0.07	0.46	175.55
	NORMAL	4,676.0	0.72	131.30	4,312.06	-905.72	1,036.78	1,376.64	0.10	0.01	-7.78	272.49
	NORMAL	4,771.0	0.41	137.89	4,407.05	-906.37	1,037.46	1,377.57	0.33	-0.33	6.94	171.44
	NORMAL	4,866.0	0.23	216.77	4,502.05	-906.78	1,037.57	1,377.93	0.45	-0.19	83.03	148.32
	NORMAL	4,962.0	0.29	271.86	4,598.05	-906.92	1,037.22	1,377.76	0.26	0.06	57.39	105.07
	NORMAL	5,057.0	0.46	284.36	4,693.05	-906.82	1,036.61	1,377.23	0.20	0.18	13.16	32.04
	NORMAL	5,152.0	0.94	281.13	4,788.04	-906.57	1,035.47	1,376.22	0.51	0.51	-3.40	353.68
	NORMAL	5,248.0	1.31	280.89	4,884.02	-906.22	1,033.62	1,374.60	0.39	0.39	-0.25	359.15
	NORMAL	5,335.0	1.31	280.89	4,971.00	-905.84	1,031.67	1,372.89	0.00	0.00	0.00	0.00