

1 General

1.1 Customer Information

Company	PICEANCE VLY
Representative	
Address	

1.2 Well Information

Well	SG 323-35	Wellbore No.	
Well Name	SG 323-35	Common Name	SG 323-35
Project	SG 35-07S-096W	Site	SG 13-35 Pad
Vertical Section Azimuth	55.66 (°)	North Reference	True
Origin N/S		Origin E/W	
Spud Date	12/3/2011	UWI	SG 323-35
Active Datum	KB @5,403.0ft (above Mean Sea Level)		

2 Survey Name

2.1 Survey Name: Survey #1

Survey Name	Survey #1	Company	
Started	12/3/2011	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 (°)
12/3/2011	Tie On	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/3/2011	NORMAL	151.0	1.10	69.10	150.99	0.52	1.35	1.41	0.73	0.73	0.00	69.10
	NORMAL	243.0	3.20	41.80	242.92	2.75	3.89	4.76	2.48	2.28	-29.67	319.92
	NORMAL	334.0	5.30	50.80	333.67	7.30	8.84	11.42	0.00	0.00	0.00	0.00
12/4/2011	NORMAL	334.0	5.30	50.80	333.67	7.30	8.84	11.42	2.41	2.31	9.89	22.14
	NORMAL	426.0	8.50	58.40	424.99	13.55	17.93	22.44	3.61	3.48	8.26	19.72
	NORMAL	517.0	12.00	57.60	514.53	22.14	31.65	38.62	3.85	3.85	-0.88	357.28
	NORMAL	608.0	14.50	53.90	603.10	33.93	48.84	59.47	2.90	2.75	-4.07	339.45
	NORMAL	699.0	17.90	55.50	690.47	48.56	69.58	84.85	3.77	3.74	1.76	8.25
	NORMAL	790.0	21.80	55.90	776.05	65.96	95.11	115.74	4.29	4.29	0.44	2.18
	NORMAL	882.0	24.00	55.40	860.79	86.17	124.66	151.54	2.40	2.39	-0.54	354.72
	NORMAL	973.0	25.20	55.00	943.53	107.79	155.76	189.42	1.33	1.32	-0.44	351.92
12/5/2011	NORMAL	1,066.0	25.90	57.30	1,027.44	129.31	189.78	229.52	1.31	0.75	2.47	55.83
	NORMAL	1,161.0	25.70	57.30	1,112.97	151.65	224.57	270.98	0.21	-0.21	0.00	180.00
	NORMAL	1,254.0	25.10	57.60	1,196.98	173.11	258.20	310.85	0.66	-0.65	0.32	168.03
	NORMAL	1,349.0	25.40	56.10	1,282.90	195.27	292.12	351.36	0.74	0.32	-1.58	294.44
	NORMAL	1,443.0	24.50	55.00	1,368.13	217.70	324.82	391.01	1.08	-0.96	-1.17	206.78
	NORMAL	1,537.0	23.90	56.80	1,453.87	239.30	356.72	429.54	1.01	-0.64	1.91	129.94
	NORMAL	1,631.0	25.10	56.90	1,539.40	260.62	389.36	468.51	1.28	1.28	0.11	2.02
	NORMAL	1,726.0	26.30	55.40	1,625.01	283.57	423.56	509.70	1.44	1.26	-1.58	330.86
	NORMAL	1,820.0	26.10	54.30	1,709.35	307.47	457.49	551.20	0.56	-0.21	-1.17	247.12

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)	Bulld (°/100ft)	Turn (°/100ft)	TFace (°)
12/5/2011	NORMAL	1,914.0	25.90	53.10	1,793.84	331.86	490.70	592.38	0.60	-0.21	-1.28	248.64
	NORMAL	2,008.0	27.00	54.70	1,878.00	356.52	524.54	634.22	1.39	1.17	1.70	33.66
	NORMAL	2,103.0	27.30	53.80	1,962.53	381.84	559.72	677.56	0.54	0.32	-0.95	305.75
	NORMAL	2,197.0	27.60	54.70	2,045.95	407.16	594.88	720.88	0.54	0.32	0.96	54.53
	NORMAL	2,291.0	27.40	58.00	2,129.33	431.20	631.00	764.26	1.63	-0.21	3.51	98.94
	NORMAL	2,385.0	27.40	57.90	2,212.78	454.16	667.67	807.49	0.05	0.00	-0.11	269.96
	NORMAL	2,479.0	27.10	58.10	2,296.35	476.97	704.17	850.49	0.33	-0.32	0.21	163.11
	NORMAL	2,574.0	25.50	55.50	2,381.52	499.99	739.39	892.56	2.07	-1.68	-2.74	214.59
12/6/2011	NORMAL	2,668.0	24.00	56.10	2,466.88	522.11	771.94	931.92	1.62	-1.60	0.64	170.77
	NORMAL	2,762.0	22.30	55.40	2,553.31	542.90	802.49	968.87	1.83	-1.81	-0.74	188.87
	NORMAL	2,856.0	20.60	54.70	2,640.80	562.59	830.66	1,003.24	1.83	-1.81	-0.74	188.24
	NORMAL	2,951.0	18.50	55.20	2,730.31	580.85	856.68	1,035.03	2.22	-2.21	0.53	175.68
	NORMAL	3,045.0	17.30	55.00	2,819.76	597.38	880.38	1,063.92	1.28	-1.28	-0.21	182.84
	NORMAL	3,139.0	15.70	55.00	2,909.89	612.69	902.25	1,090.61	1.70	-1.70	0.00	180.00
	NORMAL	3,233.0	14.30	54.80	3,000.68	626.68	922.15	1,114.94	1.49	-1.49	-0.21	182.02
	NORMAL	3,327.0	14.60	54.50	3,091.71	640.25	941.28	1,138.39	0.33	0.32	-0.32	345.84
	NORMAL	3,421.0	11.90	55.40	3,183.20	652.63	958.91	1,159.93	2.88	-2.87	0.96	176.07
	NORMAL	3,515.0	10.50	54.30	3,275.41	663.14	973.84	1,178.18	1.51	-1.49	-1.17	188.14
	NORMAL	3,610.0	9.30	53.40	3,368.99	672.76	987.04	1,194.51	1.27	-1.26	-0.95	186.90
	NORMAL	3,704.0	7.70	53.10	3,461.95	681.07	998.17	1,208.39	1.70	-1.70	-0.32	181.44
	NORMAL	3,798.0	5.60	40.10	3,555.32	688.36	1,006.16	1,219.10	2.74	-2.23	-13.83	209.30
	NORMAL	3,892.0	4.00	38.00	3,648.99	694.46	1,011.14	1,226.64	1.71	-1.70	-2.23	185.22
	NORMAL	3,987.0	2.70	50.10	3,743.83	698.50	1,014.89	1,232.03	1.55	-1.37	12.74	157.41
	NORMAL	4,081.0	2.30	47.80	3,837.74	701.19	1,017.99	1,236.10	0.44	-0.43	-2.45	192.93
	NORMAL	4,175.0	2.20	34.80	3,931.66	703.94	1,020.42	1,239.66	0.55	-0.11	-13.83	252.47
	NORMAL	4,269.0	1.50	87.30	4,025.62	705.48	1,022.67	1,242.39	1.86	-0.74	55.85	137.23
	NORMAL	4,364.0	1.20	163.30	4,120.60	704.58	1,024.20	1,243.15	1.77	-0.32	80.00	136.09
	NORMAL	4,458.0	1.40	179.80	4,214.58	702.49	1,024.49	1,242.20	0.45	0.21	17.55	70.30
	NORMAL	4,552.0	1.70	198.30	4,308.54	700.02	1,024.06	1,240.45	0.62	0.32	19.68	68.52
	NORMAL	4,646.0	1.20	207.20	4,402.51	697.82	1,023.17	1,238.48	0.58	-0.53	9.47	160.16
12/7/2011	NORMAL	5,600.0	2.90	260.00	5,355.94	689.80	994.26	1,210.21	0.00	0.00	0.00	0.00
12/7/2011	NORMAL	4,741.0	1.20	199.50	4,497.49	696.00	1,022.38	1,236.80	0.17	0.00	-8.11	266.15
	NORMAL	4,835.0	1.10	235.70	4,591.47	694.56	1,021.31	1,235.10	0.77	-0.11	38.51	115.67
	NORMAL	4,929.0	1.10	238.00	4,685.46	693.58	1,019.80	1,233.30	0.05	0.00	2.45	91.15
	NORMAL	5,023.0	1.30	252.10	4,779.44	692.77	1,018.02	1,231.37	0.38	0.21	15.00	63.07
	NORMAL	5,118.0	2.00	252.10	4,874.40	691.93	1,015.41	1,228.75	0.74	0.74	0.00	0.00
	NORMAL	5,212.0	2.00	263.80	4,968.34	691.25	1,012.22	1,225.73	0.43	0.00	12.45	95.85
	NORMAL	5,306.0	2.30	260.50	5,062.27	690.76	1,008.73	1,222.57	0.35	0.32	-3.51	335.92
	NORMAL	5,400.0	2.60	265.80	5,156.19	690.29	1,004.74	1,219.02	0.40	0.32	5.64	39.73
	NORMAL	5,494.0	2.90	263.00	5,250.08	689.85	1,000.26	1,215.06	0.35	0.32	-2.98	334.47
	NORMAL	5,555.0	2.90	260.00	5,311.00	689.39	997.21	1,212.28	0.25	0.00	-4.92	268.50