

1 General

1.1 Customer Information

Company	PICEANCE VLY
Representative	
Address	

1.2 Well Information

Well	SG 423-35	Wellbore No.	
Well Name	SG 423-35	Common Name	SG 423-35
Project	SG 35-07S-096W	Site	SG 13-35 Pad
Vertical Section Azimuth	69.96 (°)	North Reference	True
Origin N/S		Origin E/W	
Spud Date	11/23/2011	UWI	SG 423-35
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	11/23/2011	Ended	
Tool Name	GMS	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)	Bulld (°/100ft)	Turn (°/100ft)	TFace (°)
11/23/2011	Tie On	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/23/2011	NORMAL	100.0	0.97	66.18	100.00	0.34	0.77	0.84	0.97	0.97	0.00	66.18
	NORMAL	161.0	1.67	75.85	160.98	0.77	2.11	2.24	1.20	1.15	15.85	22.53
	NORMAL	253.0	4.22	59.59	252.85	2.81	6.33	6.91	2.89	2.77	-17.67	333.62
	NORMAL	345.0	6.86	63.02	344.41	7.02	14.15	15.69	2.89	2.87	3.73	8.86
	NORMAL	437.0	9.85	72.25	435.43	11.91	26.54	29.01	3.55	3.25	10.03	28.78
11/24/2011	NORMAL	517.0	12.70	72.60	513.88	16.63	41.45	44.64	3.56	3.56	0.44	1.55
	NORMAL	609.0	15.50	72.60	603.10	23.33	62.84	67.03	3.04	3.04	0.00	0.00
	NORMAL	700.0	18.50	71.50	690.11	31.55	88.14	93.61	3.32	3.30	-1.21	353.35
	NORMAL	792.0	20.70	71.00	776.78	41.47	117.36	124.46	2.40	2.39	-0.54	355.40
	NORMAL	883.0	23.50	70.50	861.08	52.77	149.67	158.69	3.08	3.08	-0.55	355.92
	NORMAL	974.0	24.40	72.40	944.25	64.51	184.69	195.61	1.30	0.99	2.09	41.47
11/25/2011	NORMAL	1,066.0	25.60	72.60	1,027.63	76.20	221.77	234.46	1.31	1.30	0.22	4.12
	NORMAL	1,161.0	25.80	70.50	1,113.23	89.24	260.85	275.63	0.98	0.21	-2.21	281.44
	NORMAL	1,255.0	26.10	68.90	1,197.75	103.51	299.42	316.76	0.81	0.32	-1.70	292.47
	NORMAL	1,349.0	26.60	68.40	1,281.99	118.70	338.28	358.47	0.58	0.53	-0.53	335.84
	NORMAL	1,443.0	26.10	69.60	1,366.22	133.65	377.23	400.19	0.78	-0.53	1.28	133.73
	NORMAL	1,537.0	25.50	68.20	1,450.85	148.38	415.39	441.09	0.91	-0.64	-1.49	224.81
	NORMAL	1,632.0	25.10	69.30	1,536.74	163.09	453.23	481.68	0.65	-0.42	1.16	130.89
	NORMAL	1,726.0	25.80	69.80	1,621.62	177.20	491.08	522.07	0.78	0.74	0.53	17.29
	NORMAL	1,820.0	26.10	67.10	1,706.14	192.31	529.32	563.18	1.30	0.32	-2.87	283.03

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 (°)
11/25/2011	NORMAL	1,914.0	25.40	71.10	1,790.81	206.89	567.45	603.99	1.99	-0.74	4.26	113.73
	NORMAL	2,009.0	25.20	70.30	1,876.70	220.31	605.77	644.58	0.42	-0.21	-0.84	239.31
	NORMAL	2,103.0	23.20	70.70	1,962.44	233.18	642.08	683.11	2.13	-2.13	0.43	175.50
	NORMAL	2,197.0	22.30	72.80	2,049.12	244.57	676.60	719.44	1.29	-0.96	2.23	138.90
	NORMAL	2,291.0	20.80	73.30	2,136.55	254.64	709.62	753.92	1.61	-1.60	0.53	173.25
	NORMAL	2,385.0	20.60	70.10	2,224.49	265.06	741.16	787.12	1.22	-0.21	-3.40	258.48
11/26/2011	NORMAL	2,480.0	19.10	68.70	2,313.84	276.40	771.36	819.37	1.66	-1.58	-1.47	196.93
	NORMAL	2,574.0	17.00	68.40	2,403.21	287.05	798.46	848.48	2.24	-2.23	-0.32	182.39
	NORMAL	2,668.0	15.60	68.00	2,493.43	296.84	822.96	874.85	1.49	-1.49	-0.43	184.39
	NORMAL	2,762.0	15.10	67.70	2,584.07	306.22	846.01	899.72	0.54	-0.53	-0.32	188.88
	NORMAL	2,857.0	13.40	70.00	2,676.15	314.68	867.80	923.09	1.89	-1.79	2.42	162.69
	NORMAL	2,951.0	13.10	70.00	2,767.65	322.05	888.05	944.64	0.32	-0.32	0.00	180.00
	NORMAL	3,045.0	12.80	68.70	2,859.26	329.48	907.76	965.70	0.44	-0.32	-1.38	223.53
	NORMAL	3,139.0	10.90	67.70	2,951.25	336.63	925.69	984.99	2.03	-2.02	-1.06	185.68
	NORMAL	3,233.0	10.60	67.50	3,043.60	343.31	941.90	1,002.51	0.32	-0.32	-0.21	186.99
	NORMAL	3,327.0	10.10	67.70	3,136.07	349.75	957.51	1,019.39	0.53	-0.53	0.21	175.99
	NORMAL	3,421.0	9.50	67.30	3,228.70	355.87	972.29	1,035.37	0.64	-0.64	-0.43	186.28
	NORMAL	3,516.0	8.80	65.20	3,322.49	361.94	986.12	1,050.44	0.82	-0.74	-2.21	204.47
	NORMAL	3,610.0	9.20	66.60	3,415.33	367.94	999.54	1,065.11	0.49	0.43	1.49	29.39
	NORMAL	3,704.0	8.90	63.10	3,508.16	374.22	1,012.93	1,079.83	0.67	-0.32	-3.72	239.69
	NORMAL	3,798.0	6.50	63.80	3,601.31	379.86	1,024.19	1,092.34	2.56	-2.55	0.74	178.11
	NORMAL	3,893.0	3.30	57.30	3,695.95	383.71	1,031.31	1,100.36	3.41	-3.37	-6.84	186.62
	NORMAL	3,987.0	1.00	63.10	3,789.87	385.54	1,034.32	1,103.81	2.45	-2.45	6.17	177.49
	NORMAL	4,081.0	0.90	87.00	3,883.86	385.95	1,035.79	1,105.33	0.43	-0.11	25.43	115.91
	NORMAL	4,175.0	0.50	108.80	3,977.85	385.86	1,036.92	1,106.36	0.50	-0.43	23.19	156.92
	NORMAL	4,269.0	0.60	17.70	4,071.85	386.20	1,037.45	1,106.98	0.84	0.11	-96.91	229.55
	NORMAL	4,364.0	0.40	345.60	4,166.85	386.99	1,037.52	1,107.32	0.35	-0.21	-33.79	219.14
	NORMAL	4,458.0	0.30	4.20	4,260.85	387.55	1,037.46	1,107.45	0.16	-0.11	19.79	140.40
	NORMAL	4,552.0	0.10	79.80	4,354.85	387.81	1,037.56	1,107.63	0.31	-0.21	80.43	160.61
	NORMAL	4,647.0	0.40	261.70	4,449.85	387.78	1,037.31	1,107.39	0.53	0.32	-187.47	181.52
11/27/2011	NORMAL	4,741.0	1.10	210.40	4,543.84	386.96	1,036.53	1,106.37	0.96	0.74	-54.57	288.53
	NORMAL	4,835.0	0.60	235.70	4,637.83	385.90	1,035.67	1,105.20	0.65	-0.53	26.91	155.30
	NORMAL	4,930.0	1.20	39.70	4,732.82	386.39	1,035.89	1,105.58	1.88	0.63	172.63	169.32
	NORMAL	5,024.0	1.50	36.40	4,826.80	388.14	1,037.25	1,107.45	0.33	0.32	-3.51	343.82
	NORMAL	5,118.0	0.80	19.30	4,920.78	389.75	1,038.20	1,108.89	0.82	-0.74	-18.19	197.74
	NORMAL	5,212.0	1.90	0.70	5,014.75	391.92	1,038.43	1,109.86	1.24	1.17	-19.79	328.81
	NORMAL	5,306.0	1.30	314.80	5,108.72	394.23	1,037.69	1,109.96	1.45	-0.64	-48.83	223.17
	NORMAL	5,400.0	1.60	282.10	5,202.69	395.26	1,035.65	1,108.40	0.92	0.32	-34.79	273.08
	NORMAL	5,486.0	1.50	260.00	5,288.66	395.32	1,033.37	1,106.27	0.70	-0.12	-25.70	249.57
	NORMAL	5,531.0	1.50	260.00	5,333.64	395.11	1,032.21	1,105.11	0.00	0.00	0.00	0.00