

1 General

1.1 Customer Information

Company	PICEANCE VLY
Representative	
Address	

1.2 Well Information

Well	SG 13-35	Wellbore No.	
Well Name	SG 13-35	Common Name	SG 13-35
Project	SG 35-07S-096W	Site	SG 13-35 Pad
Vertical Section Azimuth	331.12 (°)	North Reference	True
Origin N/S		Origin E/W	
Spud Date	12/17/2011	UWI	SG 13-35
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	12/17/2011	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 (°)
12/17/2011	Tie On	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/17/2011	NORMAL	114.0	1.30	8.50	113.99	1.28	0.19	1.03	1.14	1.14	0.00	8.50
	NORMAL	144.0	3.00	353.00	143.97	2.39	0.15	2.03	5.94	5.67	-51.67	333.26
	NORMAL	236.0	4.80	342.00	235.75	8.45	-1.34	8.04	2.11	1.96	-11.96	331.88
	NORMAL	333.0	7.20	330.90	332.22	17.62	-5.55	18.11	2.74	2.47	-11.44	328.61
12/18/2011	NORMAL	425.0	10.50	332.70	423.11	30.11	-12.20	32.26	3.60	3.59	1.96	5.69
	NORMAL	516.0	13.40	331.30	512.13	46.73	-21.07	51.09	3.20	3.19	-1.54	353.61
	NORMAL	608.0	15.30	330.60	601.25	66.66	-32.15	73.89	2.07	2.07	-0.76	354.44
	NORMAL	699.0	16.40	330.60	688.79	88.31	-44.35	98.75	1.21	1.21	0.00	0.00
	NORMAL	790.0	17.20	330.20	775.91	111.18	-57.34	125.05	0.89	0.88	-0.44	351.59
	NORMAL	881.0	17.70	330.10	862.72	134.85	-70.92	152.33	0.55	0.55	-0.11	356.52
	NORMAL	972.0	18.90	328.80	949.12	159.45	-85.45	180.89	1.39	1.32	-1.43	340.60
	NORMAL	1,000.0	19.40	328.80	975.57	167.30	-90.21	190.07	1.79	1.79	0.00	0.00
12/19/2011	NORMAL	1,066.0	19.90	329.70	1,037.72	186.38	-101.56	212.25	0.89	0.76	1.36	31.61
	NORMAL	1,161.0	20.00	329.70	1,127.02	214.36	-117.91	244.65	0.11	0.11	0.00	0.00
	NORMAL	1,255.0	18.60	330.90	1,215.74	241.34	-133.31	275.71	1.55	-1.49	1.28	164.75
	NORMAL	1,349.0	17.10	332.40	1,305.21	266.69	-147.01	304.52	1.67	-1.60	1.60	163.67
	NORMAL	1,443.0	15.50	330.10	1,395.43	289.83	-159.67	330.90	1.84	-1.70	-2.45	200.87
	NORMAL	1,537.0	15.80	329.40	1,485.95	311.73	-172.45	356.25	0.38	0.32	-0.74	327.47
	NORMAL	1,632.0	16.60	331.60	1,577.17	334.80	-185.49	382.75	1.06	0.84	2.32	38.56
	NORMAL	1,726.0	16.20	329.90	1,667.35	357.96	-198.45	409.28	0.66	-0.43	-1.81	229.38

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 (°)
12/19/2011	NORMAL	1,820.0	16.60	333.20	1,757.53	381.29	-211.08	435.81	1.08	0.43	3.51	68.35
	NORMAL	1,914.0	16.60	331.80	1,847.61	405.10	-223.48	462.66	0.43	0.00	-1.49	269.33
	NORMAL	2,009.0	15.70	330.90	1,938.86	428.30	-236.14	489.08	0.98	-0.95	-0.95	195.11
	NORMAL	2,103.0	16.40	333.10	2,029.20	451.24	-248.33	515.06	0.99	0.74	2.34	42.05
	NORMAL	2,197.0	16.70	332.20	2,119.30	475.02	-260.63	541.83	0.42	0.32	-0.96	319.05
	NORMAL	2,291.0	16.50	332.90	2,209.38	498.86	-273.01	568.67	0.30	-0.21	0.74	135.34
	NORMAL	2,385.0	15.60	332.50	2,299.72	521.95	-284.93	594.65	0.96	-0.96	-0.43	186.81
	NORMAL	2,480.0	14.80	331.80	2,391.40	543.97	-296.56	619.56	0.86	-0.84	-0.74	192.58
	NORMAL	2,574.0	14.70	330.80	2,482.30	564.97	-308.06	643.49	0.29	-0.11	-1.06	248.07
	NORMAL	2,668.0	14.30	330.60	2,573.30	585.49	-319.57	667.02	0.43	-0.43	-0.21	187.04
	NORMAL	2,762.0	14.60	330.60	2,664.33	605.93	-331.09	690.48	0.32	0.32	0.00	0.00
	NORMAL	2,857.0	12.70	335.90	2,756.65	625.89	-341.23	712.86	2.39	-2.00	5.58	149.20
	NORMAL	2,951.0	11.80	332.90	2,848.51	643.88	-349.83	732.76	1.17	-0.96	-3.19	213.81
	NORMAL	3,045.0	9.60	335.50	2,940.87	659.57	-357.46	750.19	2.40	-2.34	2.77	168.90
	NORMAL	3,139.0	8.00	336.60	3,033.76	672.71	-363.31	764.52	1.71	-1.70	1.17	174.54
	NORMAL	3,233.0	7.50	333.90	3,126.90	684.22	-368.60	777.15	0.66	-0.53	-2.87	214.73
	NORMAL	3,327.0	5.30	331.30	3,220.31	693.54	-373.39	787.62	2.36	-2.34	-2.77	186.21
12/20/2011	NORMAL	3,421.0	5.20	325.90	3,313.91	700.87	-377.86	796.21	0.54	-0.11	-5.74	255.88
	NORMAL	3,516.0	4.50	341.70	3,408.58	707.98	-381.45	804.16	1.58	-0.74	16.63	125.38
	NORMAL	3,610.0	3.30	338.70	3,502.36	714.00	-383.59	810.47	1.29	-1.28	-3.19	188.16
	NORMAL	3,704.0	3.30	338.50	3,596.20	719.04	-385.56	815.83	0.01	0.00	-0.21	269.90
	NORMAL	3,798.0	3.20	333.40	3,690.05	723.90	-387.73	821.14	0.33	-0.11	-5.43	248.39
	NORMAL	3,893.0	1.70	344.30	3,784.96	727.63	-389.30	825.16	1.65	-1.58	11.47	168.14
	NORMAL	3,987.0	1.10	338.30	3,878.93	729.81	-390.01	827.41	0.66	-0.64	-6.38	190.74
	NORMAL	4,081.0	1.20	356.80	3,972.91	731.63	-390.40	829.19	0.41	0.11	19.68	84.30
	NORMAL	4,175.0	1.10	349.40	4,066.90	733.50	-390.62	830.94	0.19	-0.11	-7.87	232.38
	NORMAL	4,269.0	1.10	330.20	4,160.88	735.17	-391.23	832.70	0.39	0.00	-20.43	260.40
	NORMAL	4,364.0	0.60	335.90	4,255.87	736.42	-391.89	834.10	0.53	-0.53	6.00	173.24
	NORMAL	4,458.0	0.30	297.00	4,349.86	736.98	-392.31	834.80	0.44	-0.32	-41.38	207.20
	NORMAL	4,552.0	0.30	321.80	4,443.86	737.28	-392.68	835.24	0.14	0.00	26.38	102.40
	NORMAL	4,647.0	0.30	200.30	4,538.86	737.24	-392.92	835.33	0.55	0.00	-127.89	209.25
	NORMAL	4,741.0	0.30	177.00	4,632.86	736.77	-392.99	834.94	0.13	0.00	-24.79	258.35
	NORMAL	4,835.0	0.70	163.30	4,726.86	735.97	-392.81	834.16	0.44	0.43	-14.57	336.43
12/21/2011	NORMAL	4,930.0	1.10	207.20	4,821.85	734.60	-393.06	833.09	0.81	0.42	46.21	83.07
	NORMAL	5,024.0	2.00	220.60	4,915.81	732.56	-394.54	832.01	1.03	0.96	14.26	28.73
	NORMAL	5,118.0	2.50	226.70	5,009.74	729.91	-397.10	830.92	0.59	0.53	6.49	28.66
	NORMAL	5,212.0	2.90	240.40	5,103.64	727.32	-400.66	830.38	0.80	0.43	14.57	65.17
	NORMAL	5,306.0	3.30	244.80	5,197.50	725.00	-405.18	830.52	0.49	0.43	4.68	32.96
	NORMAL	5,381.0	3.30	243.40	5,272.37	723.11	-409.06	830.75	0.11	0.00	-1.87	269.30
12/22/2011	NORMAL	5,426.0	0.30	243.40	5,317.35	722.48	-410.33	830.81	6.67	-6.67	0.00	180.00