

# Deviation Summary

PICEANCE VLY

## 1 General

### 1.1 Customer Information

Company	PICEANCE VLY
Representative	
Address	

### 1.2 Well/Wellbore Information

Well	SG 214-22	Wellbore No.	OH
Wellbore Legal Name	SG 214-22	Common Wellbore Name	SG 214-22
Project	SG 22-07S-096W	Site	SG 24-22 Pad
Vertical Section Azimuth	277.19 (°)	North reference	
Origin N/S		Origin E/W	
Spud date	3/16/2014	UWI	SG 214-22
Active datum	KB @5,272.0ft (above Mean Sea Level)		

## 2 Survey Name

### 2.1 Survey Name: Survey #1

Survey Name	Survey #1	Company	SCIENTIFIC
Date Started	3/16/2014	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 (°/100usft)	Build Rate (°/100usft)	Turn (°/100usft)	Tface (°)
3/16/2014	Tie On	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/16/2014	NORMAL	100.0	1.23	238.71	99.99	-0.56	-0.92	0.84	1.23	1.23	0.00	238.71
	NORMAL	171.0	3.26	279.14	170.94	-0.63	-3.56	3.45	3.46	2.86	56.94	59.36
	NORMAL	263.0	7.30	284.85	262.53	1.28	-11.80	11.87	4.42	4.39	6.21	10.26
	NORMAL	339.0	9.08	283.91	337.75	3.96	-22.29	22.61	2.35	2.34	-1.24	355.23
	NORMAL	431.0	10.22	280.96	428.45	7.26	-37.35	37.96	1.35	1.24	-3.21	335.09
	NORMAL	522.0	12.52	276.96	517.66	9.99	-55.07	55.88	2.67	2.53	-4.40	339.11
	NORMAL	612.0	16.79	275.21	604.71	12.35	-77.71	78.64	4.77	4.74	-1.94	353.23
	NORMAL	702.0	20.96	275.27	689.85	15.01	-106.69	107.73	4.63	4.63	0.07	0.30
	NORMAL	794.0	23.49	277.20	775.01	18.82	-141.27	142.52	2.86	2.75	2.10	16.99
	NORMAL	886.0	25.91	277.26	858.59	23.66	-179.41	180.96	2.63	2.63	0.07	0.62
	NORMAL	977.0	29.03	280.50	939.32	30.20	-220.85	222.90	3.80	3.43	3.56	27.04
3/17/2014	NORMAL	1,069.0	31.00	279.16	1,018.98	38.04	-266.20	268.87	2.26	2.14	-1.46	340.63
	NORMAL	1,164.0	33.15	278.90	1,099.47	45.95	-316.02	319.28	2.27	2.26	-0.27	356.22
	NORMAL	1,258.0	35.36	278.70	1,177.16	54.05	-368.30	372.17	2.35	2.35	-0.21	357.00
	NORMAL	1,332.0	37.23	278.58	1,236.80	60.62	-411.61	415.96	2.53	2.53	-0.16	357.78
3/18/2014	NORMAL	1,441.0	38.40	279.25	1,322.91	70.99	-477.63	482.75	1.14	1.07	0.61	19.61
	NORMAL	1,535.0	38.11	277.42	1,396.73	79.42	-535.21	540.94	1.24	-0.31	-1.95	254.93
	NORMAL	1,630.0	38.20	275.14	1,471.44	85.84	-593.54	599.61	1.49	0.09	-2.40	272.76
	NORMAL	1,724.0	37.90	275.01	1,545.46	90.97	-651.25	657.51	0.33	-0.32	-0.14	194.90
	NORMAL	1,818.0	36.35	278.02	1,620.41	97.38	-707.60	714.22	2.54	-1.65	3.20	131.66

2.1.2 Survey Stations (Continued)

Date	Type	MD (ft)	Inc. (")	Azl. (")	TVD (ft)	N/S (ft)	E/W (ft)	V. sec. (ft)	DLS ("/100usft)	Build Rate ("/100usft)	Turn ("/100usft)	Tface (")
3/18/2014	NORMAL	1,913.0	32.44	281.25	1,698.79	106.28	-760.49	767.82	4.54	-4.12	3.40	156.31
	NORMAL	2,007.0	31.69	281.65	1,778.45	116.18	-809.40	817.58	0.83	-0.80	0.43	164.36
	NORMAL	2,101.0	30.03	282.82	1,859.14	126.39	-856.52	865.61	1.88	-1.77	1.24	160.62
	NORMAL	2,196.0	28.51	282.77	1,942.01	136.68	-901.82	911.83	1.60	-1.60	-0.05	180.90
	NORMAL	2,290.0	25.62	279.29	2,025.71	144.92	-943.76	954.48	3.50	-3.07	-3.70	207.18
	NORMAL	2,384.0	24.15	280.14	2,110.98	151.58	-982.75	994.00	1.61	-1.56	0.90	166.71
	NORMAL	2,479.0	23.09	277.26	2,198.03	157.36	-1,020.36	1,032.03	1.65	-1.12	-3.03	226.12
	NORMAL	2,573.0	21.16	275.92	2,285.10	161.44	-1,055.53	1,067.43	2.12	-2.05	-1.43	194.03
	NORMAL	2,668.0	19.59	272.74	2,374.16	163.97	-1,088.49	1,100.45	2.02	-1.65	-3.35	213.71
	NORMAL	2,762.0	18.33	275.50	2,463.06	166.14	-1,118.95	1,130.94	1.64	-1.34	2.94	145.86
	NORMAL	2,856.0	16.16	275.47	2,552.83	168.80	-1,146.68	1,158.79	2.31	-2.31	-0.03	180.22
	NORMAL	2,950.0	15.04	278.79	2,643.36	171.91	-1,171.76	1,184.06	1.52	-1.19	3.53	143.03
	NORMAL	3,045.0	14.08	283.12	2,735.31	176.42	-1,195.20	1,207.88	1.53	-1.01	4.56	133.49
	NORMAL	3,139.0	11.75	282.41	2,826.93	181.07	-1,215.68	1,228.79	2.48	-2.48	-0.76	183.55
	NORMAL	3,233.0	10.14	275.26	2,919.22	183.89	-1,233.27	1,246.59	2.24	-1.71	-7.61	216.66
3/19/2014	NORMAL	3,327.0	9.53	284.84	3,011.85	186.64	-1,249.03	1,262.57	1.86	-0.65	10.19	115.12
	NORMAL	3,421.0	9.15	280.58	3,104.60	190.01	-1,263.90	1,277.75	0.84	-0.40	-4.53	239.11
	NORMAL	3,515.0	7.59	278.65	3,197.60	192.31	-1,277.39	1,291.41	1.69	-1.66	-2.05	189.26
	NORMAL	3,609.0	5.90	290.15	3,290.95	194.91	-1,288.06	1,302.33	2.29	-1.80	12.23	146.98
	NORMAL	3,703.0	4.98	275.48	3,384.53	196.97	-1,296.66	1,311.12	1.77	-0.98	-15.61	229.36
	NORMAL	3,798.0	3.60	269.16	3,478.26	197.32	-1,303.75	1,318.19	1.53	-1.45	-6.65	195.78
	NORMAL	3,892.0	3.72	268.45	3,573.07	197.19	-1,309.75	1,324.13	0.14	0.13	-0.76	338.95
	NORMAL	3,986.0	2.75	296.73	3,666.92	198.12	-1,314.81	1,329.27	1.96	-1.03	30.09	134.89
	NORMAL	4,081.0	0.85	353.21	3,761.88	199.85	-1,316.93	1,331.59	2.51	-2.00	59.45	162.73
	NORMAL	4,174.0	1.16	348.65	3,854.86	201.46	-1,317.19	1,332.05	0.34	0.33	-4.90	343.25
	NORMAL	4,269.0	0.70	357.77	3,949.85	202.98	-1,317.41	1,332.45	0.51	-0.48	9.60	166.69
	NORMAL	4,363.0	0.75	345.75	4,043.84	204.15	-1,317.58	1,332.77	0.17	0.05	-12.79	282.13
	NORMAL	4,457.0	0.41	21.87	4,137.84	205.06	-1,317.61	1,332.91	0.51	-0.36	38.43	150.01
	NORMAL	4,552.0	0.64	47.29	4,232.83	205.73	-1,317.09	1,332.48	0.34	0.24	26.76	58.55
	NORMAL	4,646.0	0.87	355.53	4,326.83	206.80	-1,316.76	1,332.29	0.73	0.24	-55.06	261.55
NORMAL	4,740.0	0.38	64.63	4,420.82	207.64	-1,316.53	1,332.17	0.87	-0.52	73.51	154.20	
NORMAL	4,835.0	0.85	317.97	4,515.82	208.30	-1,316.72	1,332.44	1.08	0.49	-112.27	232.55	
NORMAL	4,929.0	1.02	336.14	4,609.81	209.59	-1,317.53	1,333.40	0.36	0.18	19.33	69.46	
NORMAL	5,023.0	0.83	166.59	4,703.80	209.69	-1,317.71	1,333.59	1.96	-0.20	-180.37	184.69	
NORMAL	5,117.0	1.16	224.81	4,797.79	208.35	-1,318.22	1,333.93	1.07	0.35	61.94	102.52	
NORMAL	5,212.0	1.81	200.48	4,892.76	206.26	-1,319.42	1,334.86	0.94	0.68	-25.61	303.28	
NORMAL	5,306.0	1.72	189.73	4,986.71	203.48	-1,320.18	1,335.27	0.36	-0.10	-11.44	249.46	
NORMAL	5,400.0	2.15	197.26	5,080.66	200.41	-1,320.94	1,335.64	0.53	0.46	8.01	34.39	
3/20/2014	NORMAL	5,494.0	2.39	214.86	5,174.59	197.12	-1,322.59	1,336.86	0.78	0.26	18.72	79.93
	NORMAL	5,589.0	1.73	215.41	5,269.52	194.32	-1,324.55	1,338.45	0.70	-0.69	0.58	178.56
	NORMAL	5,665.0	1.73	215.41	5,345.49	192.45	-1,325.88	1,339.54	0.00	0.00	0.00	0.00