

## 1 General

### 1.1 Customer Information

Company	PICEANCE VLY
Representative	
Address	

### 1.2 Well Information

Well	SG 544-22	Wellbore No.	
Well Name	SG 544-22	Common Name	SG 544-22
Project	SG 23-07S-096W	Site	SG 14-23 Pad
Vertical Section Azimuth	244.38 (°)	North Reference	
Origin N/S		Origin E/W	
Spud Date	12/11/2011	UWI	SG 544-22
Active Datum	KB @5,094.0ft (above Mean Sea Level)		

## 2 Survey Name

### 2.1 Survey Name: Survey #1

Survey Name	Survey #1	Company	SCIENTIFIC
Started	12/11/2011	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 (°)
12/11/2011	Tie On	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/11/2011	NORMAL	76.0	0.44	315.35	76.00	0.21	-0.21	0.10	0.58	0.58	0.00	315.35
	NORMAL	109.0	0.97	244.42	109.00	0.18	-0.55	0.42	2.80	1.61	-214.94	262.36
	NORMAL	140.0	1.58	233.09	139.99	-0.19	-1.12	1.10	2.12	1.97	-36.55	331.82
	NORMAL	171.0	2.20	235.28	170.97	-0.79	-1.96	2.10	2.01	2.00	7.06	7.74
	NORMAL	201.0	2.90	235.72	200.94	-1.54	-3.06	3.42	2.33	2.33	1.47	1.82
	NORMAL	231.0	3.26	237.30	230.90	-2.43	-4.40	5.02	1.23	1.20	5.27	14.06
	NORMAL	261.0	4.13	239.06	260.84	-3.45	-6.04	6.94	2.92	2.90	5.87	8.31
	NORMAL	305.0	5.45	242.00	304.68	-5.24	-9.25	10.61	3.05	3.00	6.68	12.00
	NORMAL	335.0	6.24	238.92	334.53	-6.75	-11.90	13.65	2.83	2.63	-10.27	336.81
	NORMAL	365.0	7.56	241.03	364.31	-8.55	-15.03	17.25	4.48	4.40	7.03	11.92
	NORMAL	396.0	8.35	241.21	395.01	-10.62	-18.78	21.53	2.55	2.55	0.58	1.90
	NORMAL	426.0	9.58	244.37	424.64	-12.75	-22.94	26.20	4.41	4.10	10.53	23.38
	NORMAL	456.0	10.55	245.08	454.18	-14.99	-27.68	31.44	3.26	3.23	2.37	7.64
	NORMAL	487.0	11.78	245.95	484.59	-17.48	-33.15	37.45	4.00	3.97	2.81	8.23
	NORMAL	517.0	12.22	244.20	513.94	-20.11	-38.80	43.68	1.90	1.47	-5.83	319.55
	NORMAL	548.0	12.66	241.65	544.21	-23.15	-44.75	50.36	2.27	1.42	-8.23	307.44
	NORMAL	578.0	13.54	242.00	573.43	-26.36	-50.74	57.15	2.95	2.93	1.17	5.32
	NORMAL	609.0	14.28	242.66	603.52	-29.82	-57.34	64.60	2.44	2.39	2.13	12.42
	NORMAL	639.0	14.86	244.28	632.55	-33.18	-64.09	72.14	2.36	1.93	5.40	35.88
12/13/2011	NORMAL	669.0	15.56	244.55	661.50	-36.58	-71.19	80.01	2.35	2.33	0.90	5.91

## 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 (°)
12/13/2011	NORMAL	700.0	16.18	245.25	691.32	-40.18	-78.87	88.49	2.09	2.00	2.26	17.49
	NORMAL	718.0	16.02	246.32	708.62	-42.23	-83.42	93.48	1.87	-0.89	5.94	118.85
	NORMAL	786.0	16.13	245.95	773.96	-49.84	-100.64	112.30	0.22	0.16	-0.54	316.86
	NORMAL	877.0	16.53	246.04	861.29	-60.25	-124.01	137.87	0.44	0.44	0.10	3.66
	NORMAL	969.0	17.04	244.23	949.37	-71.43	-148.11	164.44	0.79	0.55	-1.97	313.43
	NORMAL	1,063.0	17.55	243.61	1,039.12	-83.72	-173.21	192.38	0.58	0.54	-0.66	339.83
	NORMAL	1,157.0	16.86	243.24	1,128.91	-96.15	-198.08	220.18	0.74	-0.73	-0.39	188.84
	NORMAL	1,252.0	17.47	242.16	1,219.68	-109.01	-222.99	248.20	0.72	0.64	-1.14	331.90
	NORMAL	1,346.0	15.92	244.02	1,309.71	-121.25	-247.06	275.20	1.74	-1.65	1.98	161.87
	NORMAL	1,441.0	16.18	243.22	1,401.01	-132.92	-270.59	301.46	0.36	0.27	-0.84	319.23
	NORMAL	1,535.0	16.22	244.63	1,491.28	-144.45	-294.14	327.68	0.42	0.04	1.50	84.87
	NORMAL	1,630.0	16.84	243.96	1,582.35	-156.18	-318.49	354.71	0.68	0.65	-0.71	342.59
	NORMAL	1,724.0	16.53	245.87	1,672.40	-167.62	-342.93	381.69	0.67	-0.33	2.03	120.39
	NORMAL	1,819.0	16.18	248.24	1,763.55	-178.05	-367.56	408.41	0.79	-0.37	2.49	118.81
	NORMAL	1,914.0	16.71	247.89	1,854.67	-188.10	-392.51	435.25	0.57	0.56	-0.37	349.24
	NORMAL	2,008.0	16.27	245.69	1,944.80	-198.61	-417.03	461.90	0.81	-0.47	-2.34	233.78
	NORMAL	2,102.0	15.65	247.27	2,035.18	-208.93	-440.72	487.73	0.81	-0.66	1.68	145.74
	NORMAL	2,197.0	16.27	247.62	2,126.51	-218.94	-464.84	513.81	0.66	0.65	0.37	8.99
	NORMAL	2,291.0	15.30	243.49	2,216.97	-229.49	-488.12	539.36	1.58	-1.03	-4.39	227.22
	NORMAL	2,386.0	15.83	242.88	2,308.49	-241.00	-510.87	564.85	0.58	0.56	-0.64	342.54
	NORMAL	2,480.0	14.95	243.76	2,399.12	-252.20	-533.16	589.79	0.97	-0.94	0.94	165.56
	NORMAL	2,575.0	13.54	246.04	2,491.19	-262.14	-554.31	613.16	1.60	-1.48	2.40	159.40
	NORMAL	2,669.0	12.05	245.95	2,582.86	-270.60	-573.33	633.97	1.59	-1.59	-0.10	180.72
	NORMAL	2,763.0	10.38	247.36	2,675.06	-277.86	-590.10	652.23	1.80	-1.78	1.50	171.37
	NORMAL	2,858.0	9.06	244.11	2,768.69	-284.42	-604.73	668.26	1.50	-1.39	-3.42	200.98
	NORMAL	2,952.0	8.09	245.60	2,861.64	-290.39	-617.42	682.28	1.06	-1.03	1.59	167.84
	NORMAL	3,047.0	7.03	248.42	2,955.81	-295.29	-628.91	694.76	1.18	-1.12	2.97	162.10
	NORMAL	3,142.0	5.54	244.55	3,050.24	-299.40	-638.46	705.14	1.63	-1.57	-4.07	193.96
12/14/2011	NORMAL	3,236.0	3.96	235.94	3,143.92	-303.16	-645.24	712.89	1.84	-1.68	-9.16	200.04
	NORMAL	3,331.0	3.21	243.53	3,238.73	-306.19	-650.34	718.80	0.93	-0.79	7.99	151.42
	NORMAL	3,425.0	1.81	259.00	3,332.64	-307.64	-654.16	722.86	1.64	-1.49	16.46	161.77
	NORMAL	3,520.0	0.59	28.28	3,427.62	-307.50	-655.40	723.92	2.35	-1.28	136.08	168.18
	NORMAL	3,614.0	0.79	39.50	3,521.62	-306.57	-654.75	722.94	0.26	0.21	11.94	39.74
	NORMAL	3,709.0	0.68	18.57	3,616.61	-305.53	-654.16	721.96	0.30	-0.12	-22.03	237.48
	NORMAL	3,803.0	0.86	67.87	3,710.60	-304.74	-653.33	720.86	0.71	0.19	52.45	100.36
	NORMAL	3,898.0	0.09	176.99	3,805.60	-304.54	-652.66	720.18	0.94	-0.81	114.86	174.54
	NORMAL	3,992.0	0.17	256.49	3,899.60	-304.65	-652.79	720.34	0.19	0.09	84.57	109.45
	NORMAL	4,087.0	0.62	245.38	3,994.60	-304.90	-653.40	721.00	0.48	0.47	-11.69	344.76
	NORMAL	4,181.0	0.70	218.88	4,088.59	-305.56	-654.22	722.02	0.33	0.09	-28.19	271.18
	NORMAL	4,276.0	1.30	233.81	4,183.58	-306.64	-655.46	723.61	0.68	0.63	15.72	31.06
	NORMAL	4,371.0	0.62	231.80	4,278.56	-307.60	-656.73	725.17	0.72	-0.72	-2.12	181.83
	NORMAL	4,465.0	0.60	226.32	4,372.56	-308.25	-657.49	726.13	0.07	-0.02	-5.83	248.35
12/15/2011	NORMAL	4,559.0	1.06	226.32	4,466.55	-309.19	-658.47	727.43	0.49	0.49	0.00	0.00
	NORMAL	4,654.0	1.45	241.53	4,561.52	-310.37	-660.16	729.46	0.54	0.41	16.01	48.27
	NORMAL	4,748.0	1.85	244.95	4,655.48	-311.58	-662.58	732.17	0.44	0.43	3.64	15.54
	NORMAL	4,843.0	1.92	246.07	4,750.43	-312.88	-665.43	735.29	0.08	0.07	1.18	28.32
	NORMAL	4,937.0	2.37	242.53	4,844.37	-314.41	-668.59	738.81	0.50	0.48	-3.77	341.82
	NORMAL	5,032.0	2.90	244.90	4,939.27	-316.34	-672.51	743.17	0.57	0.56	2.49	12.80
	NORMAL	5,126.0	3.08	241.03	5,033.14	-318.57	-676.87	748.07	0.29	0.19	-4.12	309.78
	NORMAL	5,221.0	4.11	243.20	5,127.95	-321.34	-682.14	754.02	1.09	1.08	2.28	8.61
	NORMAL	5,257.0	4.04	242.18	5,163.86	-322.52	-684.42	756.58	0.28	-0.19	-2.83	225.49
	NORMAL	5,314.0	4.04	242.18	5,220.72	-324.39	-687.97	760.59	0.00	0.00	0.00	0.00