

1 General

1.1 Customer Information

Company	PICEANCE VLY
Representative	
Address	

1.2 Well/Wellbore Information

Well	PA 314-6	Wellbore No.	00
Wellbore Legal Name	PA 314-6	Common Wellbore Name	PA 314-6
Project	PA 06-07S-095W	Site	PA 14-6 Pad
Vertical Section Azimuth	16.56 (°)	North reference	True
Origin N/S		Origin E/W	
Spud date	4/28/2014	UWI	PA 314-6
Active datum	KB @5,179.0ft (above Mean Sea Level)		

2 Survey Name

2.1 Survey Name: Survey #1

Survey Name	Survey #1	Company	
Date Started	4/28/2014	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)	Bulld Rate (°/100usft)	Turn (°/100usft)	Tface (°)
4/28/2014	Tie On	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/28/2014	NORMAL	74.0	0.09	331.00	74.00	0.05	-0.03	0.04	0.12	0.12	0.00	331.00
	NORMAL	165.0	0.35	226.49	165.00	-0.08	-0.26	-0.15	0.42	0.29	-114.85	242.33
	NORMAL	255.0	0.09	143.09	255.00	-0.32	-0.42	-0.43	0.39	-0.29	-92.67	194.75
	NORMAL	345.0	0.79	353.76	345.00	0.24	-0.45	0.10	0.97	0.78	-165.92	207.64
	NORMAL	436.0	1.14	14.41	435.98	1.74	-0.29	1.58	0.54	0.38	22.69	55.45
	NORMAL	527.0	1.67	19.42	526.96	3.86	0.38	3.81	0.60	0.58	5.51	15.56
	NORMAL	617.0	2.64	21.53	616.89	7.03	1.57	7.19	1.08	1.08	2.34	5.73
	NORMAL	708.0	2.99	25.84	707.78	11.11	3.36	11.62	0.45	0.38	4.74	33.33
	NORMAL	779.0	2.68	18.07	778.70	14.36	4.70	15.10	0.69	-0.44	-10.94	227.27
	NORMAL	869.0	2.87	13.54	868.59	18.55	5.88	19.46	0.32	0.21	-5.03	308.63
4/29/2014	NORMAL	1,154.0	3.61	30.04	1,153.31	29.25	10.05	35.31	2.69	2.69	0.00	30.04
4/30/2014	NORMAL	1,249.0	3.61	17.38	1,248.12	34.70	12.44	36.80	0.84	0.00	-13.33	263.68
	NORMAL	1,344.0	2.81	357.34	1,342.98	39.88	13.23	41.99	1.44	-0.84	-21.09	224.79
	NORMAL	1,440.0	2.81	356.11	1,438.86	44.58	12.96	46.42	0.06	0.00	-1.28	269.39
	NORMAL	1,535.0	2.11	16.85	1,533.78	48.57	13.31	50.35	1.18	-0.74	21.83	138.23
	NORMAL	1,631.0	2.46	21.60	1,629.70	52.18	14.58	54.17	0.41	0.36	4.95	30.80
	NORMAL	1,726.0	1.05	340.29	1,724.66	54.90	15.03	56.90	1.90	-1.48	-43.48	202.53
	NORMAL	1,821.0	0.79	358.72	1,819.64	56.37	14.73	58.23	0.41	-0.27	19.40	140.27
	NORMAL	1,917.0	1.23	26.17	1,915.63	57.96	15.17	59.88	0.67	0.46	28.59	61.99
	NORMAL	2,012.0	1.50	27.23	2,010.60	59.98	16.18	62.10	0.29	0.28	1.12	5.87

2.1.2 Survey Stations (Continued)

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 (")
4/30/2014	NORMAL	2,107.0	1.58	25.82	2,105.57	62.26	17.32	64.62	0.09	0.08	-1.48	333.95
	NORMAL	2,202.0	1.67	40.59	2,200.53	64.49	18.79	67.17	0.45	0.09	15.55	85.32
	NORMAL	2,297.0	2.99	21.25	2,295.45	67.85	20.59	70.91	1.60	1.39	-20.36	319.31
	NORMAL	2,393.0	3.17	26.35	2,391.31	72.56	22.68	76.02	0.34	0.19	5.31	59.26
	NORMAL	2,488.0	2.73	8.59	2,486.19	77.16	24.18	80.85	1.06	-0.46	-18.69	235.61
	NORMAL	2,583.0	2.90	6.66	2,581.08	81.78	24.80	85.46	0.20	0.18	-2.03	329.89
	NORMAL	2,679.0	3.25	5.78	2,676.94	86.90	25.36	90.52	0.37	0.36	-0.92	351.88
	NORMAL	2,774.0	3.43	7.36	2,771.78	92.40	25.99	95.97	0.21	0.19	1.66	27.88
	NORMAL	2,868.0	2.29	25.82	2,865.66	96.88	27.17	100.60	1.54	-1.21	19.64	150.04
5/1/2014	NORMAL	2,965.0	2.37	19.84	2,962.58	100.51	28.69	104.52	0.26	0.08	-6.16	285.21
	NORMAL	3,058.0	2.46	25.82	3,055.50	104.11	30.22	108.41	0.29	0.10	6.43	73.35
	NORMAL	3,154.0	2.55	23.18	3,151.41	107.93	31.95	112.56	0.15	0.09	-2.75	306.63
	NORMAL	3,250.0	2.46	30.57	3,247.31	111.67	33.84	116.68	0.35	-0.09	7.70	109.24
	NORMAL	3,346.0	2.55	19.67	3,343.22	115.45	35.61	120.81	0.50	0.09	-11.35	275.22
	NORMAL	3,442.0	2.37	25.47	3,439.14	119.26	37.18	124.91	0.32	-0.19	6.04	128.74
	NORMAL	3,538.0	2.11	26.70	3,535.06	122.63	38.83	128.61	0.28	-0.27	1.28	170.14
	NORMAL	3,632.0	2.46	27.58	3,628.99	125.96	40.54	132.29	0.37	0.37	0.94	6.16
	NORMAL	3,728.0	2.11	32.32	3,724.91	129.28	42.44	136.01	0.41	-0.36	4.94	153.99
5/2/2014	NORMAL	3,823.0	2.02	28.46	3,819.85	132.23	44.17	139.34	0.17	-0.09	-4.06	235.18
	NORMAL	3,918.0	2.02	26.52	3,914.79	135.20	45.72	142.62	0.07	0.00	-2.04	269.03
	NORMAL	4,014.0	1.85	18.79	4,010.74	138.18	46.97	145.84	0.32	-0.18	-8.05	233.10
	NORMAL	4,109.0	1.85	16.82	4,105.69	141.10	47.91	148.90	0.07	0.00	-2.07	269.02
	NORMAL	4,205.0	1.41	7.71	4,201.65	143.75	48.52	151.62	0.53	-0.46	-9.49	206.00
	NORMAL	4,300.0	1.41	1.39	4,296.62	146.08	48.70	153.90	0.16	0.00	-6.65	266.84
	NORMAL	4,395.0	1.14	356.29	4,391.60	148.19	48.67	155.92	0.31	-0.28	-5.37	200.26
	NORMAL	4,490.0	1.14	348.91	4,486.58	150.06	48.43	157.64	0.15	0.00	-7.77	266.31
	NORMAL	4,585.0	0.62	309.00	4,581.57	151.31	47.84	158.67	0.82	-0.55	-42.01	210.91
5/3/2014	NORMAL	4,681.0	0.53	279.47	4,677.56	151.71	47.00	158.82	0.32	-0.09	-30.76	238.70
	NORMAL	4,776.0	0.44	279.12	4,772.56	151.84	46.21	158.72	0.09	-0.09	-0.37	181.71
	NORMAL	4,871.0	0.62	269.81	4,867.56	151.90	45.34	158.52	0.21	0.19	-9.80	329.73
	NORMAL	4,967.0	0.88	249.41	4,963.55	151.64	44.13	157.93	0.38	0.27	-21.25	303.73
	NORMAL	5,062.0	1.05	248.36	5,058.53	151.06	42.63	156.95	0.18	0.18	-1.11	353.54
	NORMAL	5,158.0	0.62	254.69	5,154.52	150.60	41.32	156.13	0.46	-0.45	6.59	171.04
	NORMAL	5,254.0	0.97	253.46	5,250.52	150.23	40.04	155.41	0.36	0.36	-1.28	356.59
	NORMAL	5,349.0	0.79	263.83	5,345.50	149.93	38.61	154.72	0.25	-0.19	10.92	143.60
	NORMAL	5,444.0	1.23	240.45	5,440.49	149.36	37.08	153.73	0.63	0.46	-24.61	304.79
5/4/2014	NORMAL	5,539.0	1.41	223.57	5,535.47	148.01	35.38	151.95	0.45	0.19	-17.77	286.24
	NORMAL	5,634.0	0.62	308.13	5,630.45	147.48	34.17	151.10	1.56	-0.83	89.01	155.45
	NORMAL	5,730.0	0.70	311.64	5,726.45	148.19	33.33	151.54	0.09	0.08	3.66	28.57
	NORMAL	5,825.0	0.70	275.78	5,821.44	148.63	32.31	151.68	0.45	0.00	-37.75	252.07
	NORMAL	5,920.0	1.14	273.85	5,916.43	148.76	30.79	151.36	0.46	0.46	-2.03	355.01
	NORMAL	6,016.0	1.41	271.39	6,012.41	148.85	28.66	150.84	0.29	0.28	-2.56	347.31
	NORMAL	6,111.0	1.76	282.29	6,107.37	149.19	26.07	150.43	0.48	0.37	11.47	46.28
	NORMAL	6,207.0	1.67	267.87	6,203.33	149.45	23.23	149.87	0.46	-0.09	-15.02	251.07
	NORMAL	6,302.0	2.02	261.37	6,298.28	149.15	20.19	148.71	0.43	0.37	-6.84	325.85
5/4/2014	NORMAL	6,398.0	2.02	254.69	6,394.22	148.45	16.89	147.10	0.25	0.00	-6.96	266.66
	NORMAL	6,471.0	2.11	251.35	6,467.17	147.68	14.37	145.65	0.21	0.12	-4.58	305.11
	NORMAL	6,516.0	2.11	251.35	6,512.14	147.15	12.80	144.69	0.00	0.00	0.00	0.00