

1 General

1.1 Customer Information

Company	PICEANCE VLY
Representative	
Address	

1.2 Well/Wellbore Information

Well	PA 343-6	Wellbore No.	00
Wellbore Legal Name	PA 343-6	Common Wellbore Name	PA 343-6
Project	PA 06-07S-095W	Site	PA 24-6 Pad
Vertical Section Azimuth	60.68 (°)	North reference	True
Origin N/S		Origin E/W	
Spud date	7/23/2014	UWI	PA 343-6
Active datum	KB @5,160.0ft (above Mean Sea Level)		

2 Survey Name

2.1 Survey Name: Survey #1

Survey Name	Survey #1	Company	
Date Started	7/23/2014	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

4851

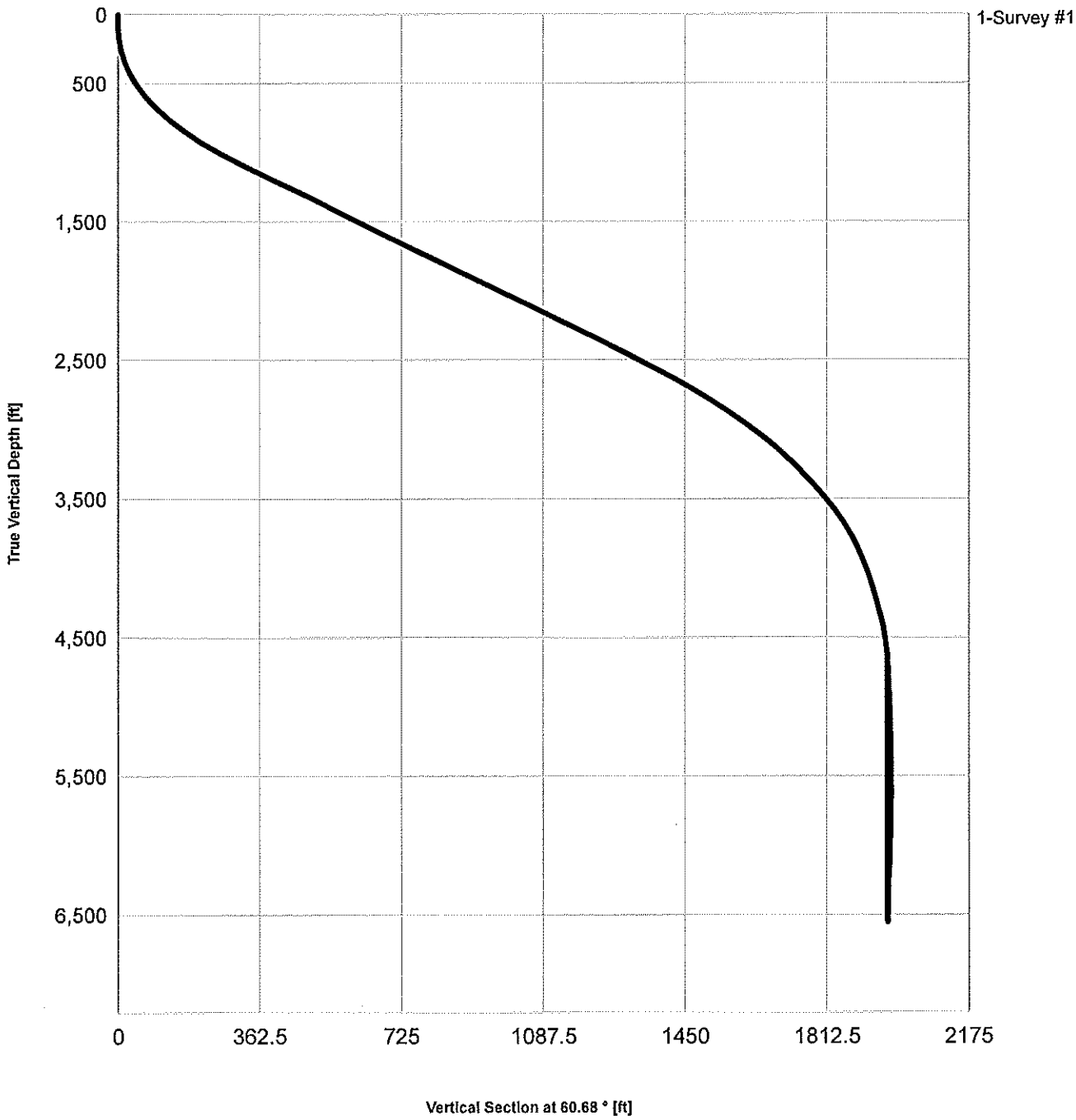
Date	Type	MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. sec. (ft)	DLS (°/100usft)	Buid Rate (°/100usft)	Turn (°/100usft)	Tface (°)
7/23/2014	Tie On	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/2014	NORMAL	100.0	0.88	75.15	100.00	0.20	0.74	0.74	0.88	0.88	0.00	75.15
	NORMAL	160.0	2.46	67.50	159.97	0.81	2.38	2.47	2.65	2.63	-12.75	348.13
	NORMAL	251.0	4.75	63.54	250.78	3.23	7.56	8.17	2.53	2.52	-4.35	351.82
7/24/2014	NORMAL	343.0	6.95	63.54	342.30	7.41	15.95	17.54	2.39	2.39	0.00	0.00
	NORMAL	418.0	9.97	61.84	416.47	12.50	25.74	28.56	4.04	4.03	-2.27	354.42
	NORMAL	509.0	13.36	62.72	505.58	21.04	42.03	46.95	3.73	3.73	0.97	3.44
	NORMAL	599.0	16.71	61.05	592.49	32.07	62.60	70.29	3.75	3.72	-1.86	351.82
	NORMAL	690.0	19.61	61.46	678.95	45.70	87.47	98.64	3.19	3.19	0.45	2.72
	NORMAL	781.0	23.31	61.35	763.62	61.64	116.70	131.93	4.07	4.07	-0.12	359.33
	NORMAL	872.0	26.17	60.42	846.26	80.18	149.95	170.01	3.17	3.14	-1.02	351.83
	NORMAL	962.0	29.81	59.10	925.72	101.47	186.42	212.23	4.10	4.04	-1.47	349.76
	NORMAL	1,057.0	32.85	59.39	1,006.86	126.72	228.87	261.61	3.20	3.20	0.31	2.96
	NORMAL	1,152.0	36.05	59.45	1,085.19	154.06	275.13	315.33	3.37	3.37	0.06	0.63
	NORMAL	1,281.0	36.05	59.45	1,189.49	192.65	340.51	391.22	0.00	0.00	0.00	0.00
7/25/2014	NORMAL	1,339.0	37.64	57.69	1,235.90	210.79	370.18	425.98	3.29	2.74	-3.03	325.72
	NORMAL	1,434.0	35.83	58.31	1,312.03	240.90	418.36	482.73	1.94	-1.91	0.65	168.67
	NORMAL	1,529.0	34.69	60.47	1,389.61	268.84	465.54	537.55	1.78	-1.20	2.27	133.31
	NORMAL	1,624.0	34.26	62.45	1,467.93	294.53	512.77	591.31	1.26	-0.45	2.08	111.80
	NORMAL	1,718.0	34.91	63.14	1,545.32	318.92	560.23	644.63	0.81	0.69	0.73	31.36
	NORMAL	1,813.0	36.44	63.15	1,622.49	343.95	609.66	699.98	1.61	1.61	0.01	0.22

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 (°)
7/25/2014	NORMAL	1,908.0	36.84	64.46	1,698.71	368.97	660.53	756.59	0.92	0.42	1.38	63.43
	NORMAL	2,003.0	35.79	63.85	1,775.26	393.49	711.16	812.75	1.17	-1.11	-0.64	198.74
	NORMAL	2,097.0	36.32	62.62	1,851.26	418.41	760.55	868.02	0.95	0.56	-1.31	305.71
7/26/2014	NORMAL	2,192.0	35.47	59.27	1,928.22	445.43	809.24	923.69	2.25	-0.89	-3.53	245.25
	NORMAL	2,287.0	36.21	60.25	2,005.24	473.44	857.29	979.31	0.99	0.78	1.03	38.19
	NORMAL	2,382.0	36.58	60.68	2,081.71	501.23	906.34	1,035.68	0.47	0.39	0.45	34.76
	NORMAL	2,477.0	35.70	60.59	2,158.43	528.70	955.16	1,091.70	0.93	-0.93	-0.09	183.42
	NORMAL	2,572.0	36.14	59.89	2,235.36	556.37	1,003.54	1,147.43	0.63	0.46	-0.74	316.69
	NORMAL	2,667.0	35.88	61.30	2,312.21	583.79	1,052.20	1,203.28	0.91	-0.27	1.48	107.98
	NORMAL	2,762.0	35.09	59.10	2,389.57	611.18	1,100.05	1,258.42	1.58	-0.83	-2.32	237.37
	NORMAL	2,856.0	34.47	62.35	2,466.78	637.41	1,146.80	1,312.02	2.08	-0.66	3.46	109.82
	NORMAL	2,951.0	34.21	60.51	2,545.22	663.03	1,193.86	1,365.60	1.13	-0.27	-1.94	255.18
	NORMAL	3,046.0	32.89	60.68	2,624.40	688.81	1,239.60	1,418.11	1.39	-1.39	0.18	176.00
	NORMAL	3,141.0	31.22	62.18	2,704.91	712.93	1,283.87	1,468.52	1.95	-1.76	1.58	155.15
	NORMAL	3,236.0	29.37	61.56	2,786.93	735.52	1,326.13	1,516.43	1.97	-1.95	-0.65	189.33
	NORMAL	3,331.0	27.61	59.80	2,870.43	757.69	1,365.65	1,561.73	2.05	-1.85	-1.85	204.73
	NORMAL	3,426.0	26.29	57.61	2,955.11	780.03	1,402.44	1,604.76	1.74	-1.39	-2.31	215.97
	NORMAL	3,521.0	24.55	58.41	3,040.91	801.64	1,437.02	1,645.49	1.87	-1.83	0.84	169.20
	NORMAL	3,616.0	22.25	60.59	3,128.09	820.82	1,469.50	1,683.20	2.59	-2.42	2.29	160.37
	NORMAL	3,710.0	20.22	60.33	3,215.71	837.60	1,499.12	1,717.25	2.16	-2.16	-0.28	182.53
	NORMAL	3,805.0	18.91	58.84	3,305.22	853.69	1,526.56	1,749.05	1.48	-1.38	-1.57	200.15
	NORMAL	3,900.0	18.11	61.38	3,395.31	868.73	1,552.70	1,779.20	1.20	-0.84	2.67	135.97
	NORMAL	3,995.0	16.61	57.78	3,485.98	883.04	1,577.15	1,807.53	1.94	-1.58	-3.79	213.90
	NORMAL	4,090.0	14.86	61.82	3,577.42	896.04	1,599.38	1,833.27	2.17	-1.84	4.25	149.88
	NORMAL	4,185.0	13.19	64.29	3,669.59	906.49	1,619.88	1,856.27	1.87	-1.76	2.60	161.48
7/27/2014	NORMAL	4,280.0	11.08	66.92	3,762.46	914.77	1,638.05	1,876.16	2.30	-2.22	2.77	166.60
	NORMAL	4,375.0	8.88	62.97	3,856.02	921.69	1,652.98	1,892.57	2.42	-2.32	-4.16	195.35
	NORMAL	4,470.0	8.09	58.84	3,949.98	928.48	1,665.23	1,906.57	1.05	-0.83	-4.35	215.62
	NORMAL	4,564.0	7.16	53.03	4,043.15	935.42	1,675.57	1,918.99	1.28	-0.99	-6.18	216.80
	NORMAL	4,659.0	6.24	52.91	4,137.50	942.10	1,684.42	1,929.98	0.97	-0.97	-0.13	180.81
	NORMAL	4,754.0	5.72	56.20	4,231.98	947.84	1,692.47	1,939.81	0.66	-0.55	3.46	148.24
	NORMAL	4,849.0	5.72	39.59	4,326.61	954.13	1,699.42	1,948.95	1.74	0.00	-17.48	261.74
	NORMAL	4,944.0	4.75	34.23	4,421.12	961.03	1,704.65	1,956.89	1.14	-1.02	-5.64	204.10
	NORMAL	5,039.0	3.43	35.37	4,515.87	966.60	1,708.51	1,962.98	1.39	-1.39	1.20	177.04
	NORMAL	5,133.0	2.20	25.17	4,609.76	970.52	1,710.91	1,966.99	1.41	-1.31	-10.85	197.12
	NORMAL	5,228.0	1.14	23.94	4,704.72	973.04	1,712.07	1,969.23	1.12	-1.12	-1.29	181.32
	NORMAL	5,323.0	0.86	16.78	4,799.70	974.58	1,712.65	1,970.50	0.32	-0.29	-7.54	200.50
	NORMAL	5,418.0	0.97	42.40	4,894.69	975.86	1,713.40	1,971.78	0.44	0.12	26.97	88.00
7/28/2014	NORMAL	5,512.0	0.90	53.03	4,988.68	976.89	1,714.53	1,973.27	0.20	-0.07	11.31	117.23
	NORMAL	5,607.0	0.45	33.97	5,083.67	977.65	1,715.33	1,974.34	0.52	-0.47	-20.06	197.20
	NORMAL	5,702.0	0.57	71.21	5,178.67	978.11	1,715.99	1,975.14	0.36	0.13	39.20	89.37
	NORMAL	5,797.0	0.22	69.67	5,273.67	978.33	1,716.61	1,975.78	0.37	-0.37	-1.62	180.97
	NORMAL	5,892.0	0.44	113.33	5,368.67	978.25	1,717.11	1,976.18	0.34	0.23	45.96	72.06
	NORMAL	5,987.0	0.70	115.26	5,463.66	977.85	1,717.97	1,976.74	0.27	0.27	2.03	5.19
	NORMAL	6,082.0	0.44	133.19	5,558.66	977.36	1,718.76	1,977.19	0.33	-0.27	18.87	154.29
	NORMAL	6,176.0	0.62	179.42	5,652.65	976.60	1,719.03	1,977.05	0.48	0.19	49.18	91.42
	NORMAL	6,271.0	0.44	177.75	5,747.65	975.72	1,719.05	1,976.64	0.19	-0.19	-1.76	184.07
	NORMAL	6,366.0	0.62	180.92	5,842.65	974.84	1,719.06	1,976.21	0.19	0.19	3.34	10.84
	NORMAL	6,461.0	0.79	197.35	5,937.64	973.70	1,718.85	1,975.48	0.28	0.18	17.29	58.35
	NORMAL	6,556.0	1.14	203.59	6,032.62	972.21	1,718.28	1,974.25	0.38	0.37	6.57	19.85
	NORMAL	6,651.0	1.11	210.08	6,127.61	970.55	1,717.44	1,972.70	0.14	-0.03	6.83	106.48
	NORMAL	6,745.0	0.96	204.92	6,221.59	969.05	1,716.65	1,971.28	0.19	-0.16	-5.49	209.29
	NORMAL	6,840.0	1.13	192.48	6,316.58	967.41	1,716.12	1,970.01	0.30	0.18	-13.09	300.52
7/29/2014	NORMAL	6,935.0	1.32	167.03	6,411.56	965.43	1,716.16	1,969.08	0.60	0.20	-26.79	276.23
	NORMAL	7,011.0	1.05	175.99	6,487.54	963.88	1,716.40	1,968.53	0.43	-0.36	11.79	149.96
	NORMAL	7,075.0	1.05	175.99	6,551.53	962.71	1,716.49	1,968.03	0.00	0.00	0.00	0.00

3 Charts

3.1 Vertical Section View



3.2 Plan View

