

1 General

1.1 Customer Information

Company	PICEANCE VLY
Representative	
Address	

1.2 Well Information

Well	KP 533-8	Wellbore No.	
Well Name	KP 533-8	Common Name	KP 533-8
Project	KP 08-06S-91W	Site	KP 24-8 Pad
Vertical Section Azimuth	33.24 (°)	North Reference	True
Origin N/S		Origin E/W	
Spud Date	1/30/2012	UWI	KP 533-8
Active Datum	KB @6,552.0ft (above Mean Sea Level)		

2 Survey Name

2.1 Survey Name: Survey #1

Survey Name	Survey #1	Company	
Date Started	1/30/2012	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 (°/100ft)	Build Rate (°/100ft)	Turn (°/100ft)	TFace (°)
1/30/2012	Tie On	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/30/2012	NORMAL	103.0	0.88	355.43	103.00	0.79	-0.06	0.62	0.85	0.85	0.00	355.43
	NORMAL	134.0	1.14	352.79	133.99	1.33	-0.12	1.05	0.85	0.84	-8.52	348.53
	NORMAL	164.0	1.58	10.20	163.98	2.03	-0.08	1.66	2.00	1.47	58.03	52.13
	NORMAL	194.0	2.46	10.46	193.96	3.08	0.11	2.63	2.93	2.93	0.87	0.73
	NORMAL	225.0	3.43	8.26	224.92	4.65	0.36	4.08	3.15	3.13	-7.10	352.25
	NORMAL	255.0	5.19	6.68	254.84	6.88	0.65	6.11	5.88	5.87	-5.27	355.35
	NORMAL	285.0	6.86	11.34	284.67	9.99	1.16	8.99	5.80	5.57	15.53	18.65
	NORMAL	315.0	7.83	7.12	314.42	13.77	1.76	12.48	3.70	3.23	-14.07	328.81
	NORMAL	346.0	9.06	9.84	345.09	18.27	2.44	16.62	4.17	3.97	8.77	19.34
	NORMAL	377.0	10.65	10.81	375.63	23.49	3.40	21.51	5.16	5.13	3.13	6.44
	NORMAL	406.0	12.23	9.05	404.05	29.16	4.38	26.79	5.58	5.45	-6.07	346.68
	NORMAL	437.0	12.76	15.21	434.32	35.70	5.80	33.04	4.62	1.71	19.87	71.34
	NORMAL	467.0	13.37	20.39	463.54	42.15	7.87	39.57	4.40	2.03	17.27	65.02
	NORMAL	498.0	13.99	22.76	493.66	48.97	10.57	46.75	2.70	2.00	7.65	43.27
	NORMAL	528.0	14.08	23.47	522.77	55.66	13.43	53.91	0.65	0.30	2.37	62.75
	NORMAL	619.0	16.54	29.62	610.54	77.08	24.24	77.75	3.24	2.70	6.76	36.42
1/31/2012	NORMAL	693.0	18.39	28.99	681.12	96.45	35.11	99.91	2.51	2.50	-0.85	353.86
	NORMAL	784.0	20.84	31.27	766.84	122.84	50.47	130.41	2.82	2.69	2.51	18.43
	NORMAL	875.0	23.30	32.16	851.16	151.92	68.45	164.58	2.73	2.70	0.98	8.15
	NORMAL	967.0	25.99	32.52	934.78	184.32	88.98	202.94	2.93	2.92	0.39	3.36

2.1.2 Survey Stations (Continued)

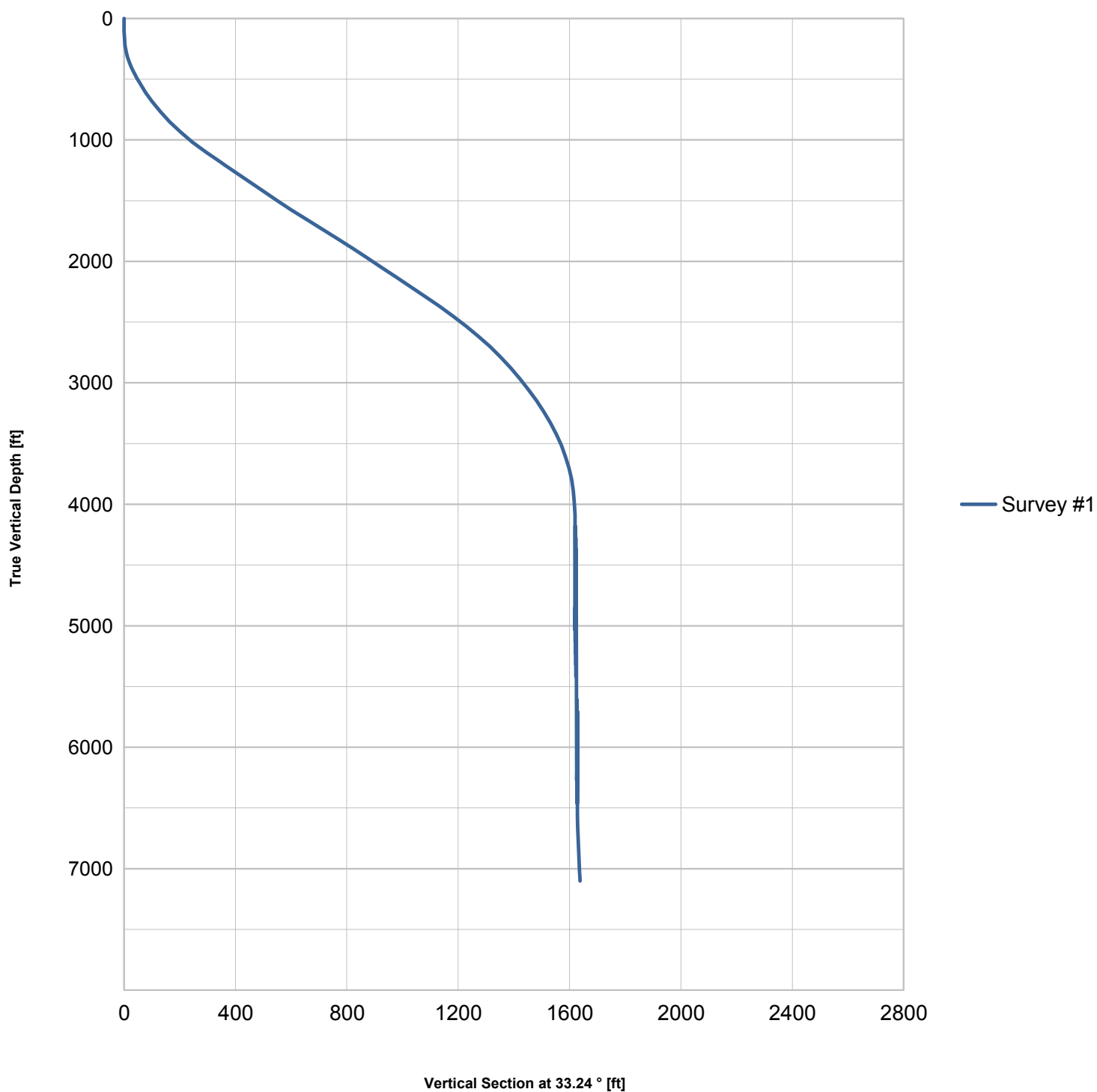
Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLS (°/100ft)	Build Rate (°/100ft)	Turn (°/100ft)	TFace (°)
1/31/2012	NORMAL	1,062.0	28.28	33.36	1,019.31	220.68	112.55	246.26	2.44	2.41	0.88	9.87
	NORMAL	1,156.0	32.14	33.28	1,100.53	260.19	138.52	293.55	4.11	4.11	-0.09	359.37
	NORMAL	1,252.0	32.98	34.03	1,181.44	303.20	167.16	345.21	0.97	0.88	0.78	25.98
	NORMAL	1,286.0	32.99	34.36	1,209.96	318.51	177.56	363.72	0.53	0.03	0.97	86.95
2/1/2012	NORMAL	1,437.0	32.80	34.60	1,336.75	386.11	223.98	445.71	0.15	-0.13	0.16	145.65
	NORMAL	1,532.0	32.00	33.70	1,416.96	428.23	252.56	496.61	0.98	-0.84	-0.95	210.70
	NORMAL	1,628.0	32.90	34.60	1,497.97	470.85	281.48	548.11	1.06	0.94	0.94	28.60
	NORMAL	1,723.0	34.90	36.00	1,576.82	514.08	312.11	601.05	2.26	2.11	1.47	21.91
	NORMAL	1,818.0	34.80	35.50	1,654.78	558.14	343.83	655.29	0.32	-0.11	-0.53	250.50
	NORMAL	1,914.0	35.00	35.60	1,733.52	602.83	375.76	710.17	0.22	0.21	0.10	16.01
	NORMAL	2,010.0	35.10	35.10	1,812.11	647.80	407.66	765.26	0.32	0.10	-0.52	289.00
	NORMAL	2,105.0	34.20	34.70	1,890.26	692.09	438.56	819.25	0.98	-0.95	-0.42	194.02
	NORMAL	2,200.0	33.40	34.00	1,969.20	735.72	468.39	872.09	0.94	-0.84	-0.74	205.66
	NORMAL	2,295.0	33.10	33.70	2,048.65	778.98	497.40	924.17	0.36	-0.32	-0.32	208.61
	NORMAL	2,391.0	33.20	34.00	2,129.02	822.58	526.64	976.67	0.20	0.10	0.31	58.76
	NORMAL	2,486.0	33.30	34.00	2,208.47	865.76	555.77	1,028.75	0.11	0.11	0.00	0.00
	NORMAL	2,582.0	33.20	34.40	2,288.76	909.30	585.35	1,081.38	0.25	-0.10	0.42	114.68
	NORMAL	2,676.0	31.70	35.80	2,368.08	950.56	614.34	1,131.78	1.78	-1.60	1.49	153.99
	NORMAL	2,771.0	30.10	33.70	2,449.59	990.63	642.16	1,180.54	2.03	-1.68	-2.21	213.08
	NORMAL	2,866.0	29.00	33.20	2,532.24	1,029.72	667.99	1,227.40	1.19	-1.16	-0.53	192.42
	NORMAL	2,962.0	27.10	33.70	2,616.95	1,067.39	692.87	1,272.54	1.99	-1.98	0.52	173.17
	NORMAL	3,057.0	25.50	33.50	2,702.12	1,102.44	716.16	1,314.63	1.69	-1.68	-0.21	183.08
	NORMAL	3,152.0	22.30	32.50	2,788.96	1,134.71	737.14	1,353.11	3.40	-3.37	-1.05	186.76
2/2/2012	NORMAL	3,247.0	21.30	34.60	2,877.17	1,164.11	756.62	1,388.38	1.33	-1.05	2.21	143.02
	NORMAL	3,342.0	19.20	33.00	2,966.29	1,191.42	774.93	1,421.26	2.29	-2.21	-1.68	194.02
	NORMAL	3,437.0	18.80	35.10	3,056.12	1,217.04	792.24	1,452.18	0.83	-0.42	2.21	121.32
	NORMAL	3,532.0	16.70	33.20	3,146.59	1,240.99	808.52	1,481.13	2.29	-2.21	-2.00	194.52
	NORMAL	3,627.0	15.50	30.40	3,237.86	1,263.36	822.42	1,507.46	1.50	-1.26	-2.95	211.57
	NORMAL	3,721.0	13.90	32.30	3,328.78	1,283.74	834.81	1,531.29	1.78	-1.70	2.02	164.15
	NORMAL	3,819.0	12.00	32.30	3,424.29	1,302.30	846.54	1,553.25	1.94	-1.94	0.00	180.00
	NORMAL	3,911.0	9.60	36.90	3,514.65	1,316.53	856.26	1,570.47	2.77	-2.61	5.00	162.49
	NORMAL	4,006.0	8.50	34.00	3,608.47	1,328.68	864.94	1,585.40	1.25	-1.16	-3.05	201.10
	NORMAL	4,102.0	6.70	33.50	3,703.62	1,339.23	872.00	1,598.10	1.88	-1.88	-0.52	181.86
	NORMAL	4,197.0	4.60	31.80	3,798.16	1,347.09	877.07	1,607.45	2.22	-2.21	-1.79	183.71
	NORMAL	4,293.0	2.70	24.70	3,893.96	1,352.42	880.04	1,613.53	2.03	-1.98	-7.40	189.86
	NORMAL	4,389.0	1.90	26.50	3,989.88	1,355.90	881.70	1,617.35	0.84	-0.83	1.88	175.74
	NORMAL	4,485.0	0.70	35.10	4,085.85	1,357.80	882.74	1,619.51	1.26	-1.25	8.96	175.05
	NORMAL	4,579.0	0.80	52.70	4,179.84	1,358.67	883.59	1,620.71	0.27	0.11	18.72	75.50
	NORMAL	4,674.0	1.20	42.50	4,274.83	1,359.81	884.79	1,622.31	0.46	0.42	-10.74	330.85
	NORMAL	4,770.0	1.00	127.00	4,370.82	1,360.04	886.14	1,623.25	1.55	-0.21	88.02	137.96
	NORMAL	4,865.0	1.00	105.20	4,465.80	1,359.33	887.60	1,623.45	0.40	0.00	-22.95	259.10
	NORMAL	4,960.0	0.90	91.90	4,560.79	1,359.08	889.15	1,624.10	0.25	-0.11	-14.00	239.05
	NORMAL	5,055.0	1.40	175.20	4,655.78	1,357.90	889.99	1,623.57	1.66	0.53	87.68	117.91
2/3/2012	NORMAL	5,151.0	1.10	180.10	4,751.75	1,355.81	890.09	1,621.88	0.33	-0.31	5.10	162.83
	NORMAL	5,246.0	0.70	187.20	4,846.74	1,354.33	890.02	1,620.59	0.44	-0.42	7.47	167.95
	NORMAL	5,341.0	0.70	139.70	4,941.74	1,353.31	890.32	1,619.91	0.59	0.00	-50.00	246.25
	NORMAL	5,436.0	0.50	93.50	5,036.73	1,352.84	891.11	1,619.95	0.53	-0.21	-48.63	225.56
	NORMAL	5,531.0	0.70	62.50	5,131.73	1,353.08	892.04	1,620.66	0.39	0.21	-32.63	285.51
	NORMAL	5,626.0	1.00	55.00	5,226.72	1,353.82	893.23	1,621.94	0.34	0.32	-7.89	335.88
	NORMAL	5,722.0	0.20	20.10	5,322.71	1,354.46	893.97	1,622.88	0.88	-0.83	-36.35	187.79
	NORMAL	5,817.0	0.50	23.70	5,417.71	1,355.00	894.20	1,623.45	0.32	0.32	3.79	5.99
	NORMAL	5,912.0	1.30	19.10	5,512.69	1,356.40	894.72	1,624.90	0.84	0.84	-4.84	352.54
	NORMAL	6,008.0	1.30	11.20	5,608.67	1,358.49	895.28	1,626.97	0.19	0.00	-8.23	266.05
	NORMAL	6,102.0	1.40	315.60	5,702.65	1,360.36	894.69	1,628.20	1.34	0.11	-59.15	246.23
2/4/2012	NORMAL	6,197.0	0.60	297.50	5,797.63	1,361.42	893.43	1,628.40	0.90	-0.84	-19.05	192.66
	NORMAL	6,292.0	0.80	241.80	5,892.63	1,361.33	892.41	1,627.77	0.71	0.21	-58.63	257.28
	NORMAL	6,387.0	0.80	263.60	5,987.62	1,360.95	891.17	1,626.76	0.32	0.00	22.95	100.90

2.1.2 Survey Stations (Continued)

Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLS (°/100ft)	Build Rate (°/100ft)	Turn (°/100ft)	TFace (°)
2/4/2012	NORMAL	6,482.0	1.00	319.90	6,082.61	1,361.51	889.97	1,626.58	0.91	0.21	59.26	106.42
	NORMAL	6,577.0	0.40	193.80	6,177.60	1,361.82	889.36	1,626.50	1.34	-0.63	-132.74	194.66
	NORMAL	6,673.0	0.20	284.90	6,273.60	1,361.54	889.12	1,626.13	0.47	-0.21	94.90	153.66
	NORMAL	6,768.0	0.60	15.90	6,368.60	1,362.06	889.09	1,626.55	0.67	0.42	95.79	109.33
	NORMAL	6,863.0	1.00	8.90	6,463.59	1,363.36	889.36	1,627.79	0.43	0.42	-7.37	342.75
	NORMAL	6,958.0	0.20	337.10	6,558.59	1,364.33	889.42	1,628.63	0.88	-0.84	-33.47	187.24
	NORMAL	7,054.0	1.20	15.90	6,654.58	1,365.45	889.63	1,629.69	1.10	1.04	40.42	45.64
	NORMAL	7,149.0	1.10	330.20	6,749.56	1,367.20	889.45	1,631.05	0.95	-0.11	-48.11	241.26
	NORMAL	7,242.0	2.10	348.00	6,842.52	1,369.64	888.65	1,632.65	1.19	1.08	19.14	35.51
2/5/2012	NORMAL	7,338.0	0.70	11.50	6,938.49	1,371.93	888.40	1,634.44	1.55	-1.46	24.48	169.16
	NORMAL	7,434.0	1.40	17.50	7,034.48	1,373.63	888.87	1,636.11	0.74	0.73	6.25	11.93
	NORMAL	7,455.0	1.50	21.70	7,055.47	1,374.13	889.05	1,636.63	0.69	0.48	20.00	48.86
	NORMAL	7,500.0	1.50	21.70	7,100.45	1,375.22	889.49	1,637.78	0.00	0.00	0.00	0.00

3 Charts

3.1 Vertical Section View



3.2 Plan View

