

## I General

### 1.1 Customer Information

Company	PICEANCE VLY
Representative	
Address	

### 1.2 Well Information

Well	RWF 333-36	Wellbore No.	
Well Name	RWF 333-36	Common Name	RWF 333-36
Project	RU 36-06S-094W	Site	RWF 33-36 Pad
Vertical Section	124.36 (°)	North Reference	True
Azimuth		Origin E/W	
Origin N/S		UWI	RWF 333-36
Spud Date	4/23/2013		
Active Datum	KB @6,554.0ft (above Mean Sea Level)		

## 2 Survey Name

### 2.1 Survey Name: Survey #1

Survey Name	Survey #1	Company	
Date Started	4/23/2013	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 (°)
4/23/2013	Tie On	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/23/2013	NORMAL	92.0	0.70	143.44	92.00	-0.45	0.33	0.53	0.76	0.76	0.00	143.44
	NORMAL	179.0	0.79	112.71	178.99	-1.11	1.20	1.62	0.46	0.10	-35.32	267.03
	NORMAL	270.0	2.11	131.66	269.96	-2.47	3.03	3.90	1.52	1.45	20.82	29.61
	NORMAL	360.0	4.40	128.94	359.81	-5.74	6.96	8.98	2.55	2.54	-3.02	354.78
	NORMAL	451.0	7.30	121.73	450.33	-10.97	14.59	18.24	3.28	3.19	-7.92	342.17
	NORMAL	520.0	8.00	122.80	518.71	-15.88	22.36	27.42	1.04	1.01	1.55	12.03
	NORMAL	611.0	9.15	123.95	608.69	-23.35	33.68	40.98	1.28	1.26	1.26	9.05
	NORMAL	702.0	9.74	122.52	698.46	-31.53	46.18	55.91	0.70	0.65	-1.57	337.60
	NORMAL	792.0	10.48	117.87	787.06	-39.45	59.83	71.66	1.22	0.82	-5.17	309.89
	NORMAL	883.0	9.03	131.23	876.76	-48.03	72.52	86.97	2.94	-1.59	14.68	129.1'
	NORMAL	974.0	9.32	132.38	966.59	-57.70	83.33	101.36	0.38	0.32	1.26	32.87
	NORMAL	1,064.0	10.38	125.62	1,055.27	-67.33	95.31	116.68	1.74	1.18	-7.51	309.14
4/25/2013	NORMAL	1,162.0	11.03	127.71	1,151.56	-78.21	109.90	134.87	0.77	0.66	2.13	31.88
	NORMAL	1,258.0	10.79	122.67	1,245.83	-88.68	124.73	153.02	1.02	-0.25	-5.25	253.4'
	NORMAL	1,353.0	11.10	119.72	1,339.10	-98.01	140.16	171.02	0.67	0.33	-3.11	297.5'
	NORMAL	1,449.0	11.48	120.38	1,433.24	-107.43	156.43	189.76	0.42	0.40	0.69	19.10
	NORMAL	1,544.0	10.28	116.20	1,526.54	-115.95	172.19	207.58	1.51	-1.26	-4.40	211.28
	NORMAL	1,640.0	10.45	116.81	1,620.97	-123.66	187.65	224.69	0.21	0.18	0.64	33.15
	NORMAL	1,736.0	10.86	117.00	1,715.31	-131.69	203.47	242.29	0.43	0.43	0.20	4.99
	NORMAL	1,831.0	10.80	122.72	1,808.62	-140.57	218.94	260.07	1.13	-0.06	6.02	96.00

## 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 (°)
4/25/2013	NORMAL	1,925.0	9.82	127.00	1,901.11	-150.15	232.75	276.88	1.32	-1.04	4.55	144.08
	NORMAL	2,020.0	9.99	125.01	1,994.69	-159.75	245.97	293.21	0.40	0.18	-2.09	295.43
	NORMAL	2,115.0	10.45	126.31	2,088.18	-169.58	259.66	310.06	0.54	0.48	1.37	27.27
	NORMAL	2,210.0	11.08	128.10	2,181.51	-180.32	273.79	327.78	0.75	0.66	1.88	28.84
	NORMAL	2,305.0	10.85	128.39	2,274.78	-191.50	287.98	345.81	0.25	-0.24	0.31	166.66
	NORMAL	2,400.0	11.02	128.97	2,368.05	-202.77	302.04	363.78	0.21	0.18	0.61	33.20
	NORMAL	2,496.0	11.27	128.03	2,462.24	-214.31	316.57	382.29	0.32	0.26	-0.98	323.53
	NORMAL	2,592.0	11.32	126.64	2,556.38	-225.72	331.52	401.06	0.29	0.05	-1.45	279.72
	NORMAL	2,687.0	11.41	126.06	2,649.52	-236.81	346.59	419.77	0.15	0.09	-0.61	307.93
	NORMAL	2,780.0	10.94	128.38	2,740.76	-247.71	360.95	437.77	0.70	-0.51	2.49	137.40
	NORMAL	2,874.0	10.33	120.35	2,833.15	-257.50	375.22	455.08	1.70	-0.65	-8.54	243.71
	NORMAL	2,969.0	10.80	120.51	2,926.54	-266.33	390.23	472.45	0.50	0.49	0.17	3.65
	NORMAL	3,065.0	10.94	122.17	3,020.81	-275.74	405.69	490.53	0.36	0.15	1.73	66.72
	NORMAL	3,160.0	10.44	124.23	3,114.16	-285.38	420.44	508.15	0.66	-0.53	2.17	143.62
4/26/2013	NORMAL	3,255.0	10.15	121.22	3,207.63	-294.57	434.73	525.13	0.64	-0.31	-3.17	240.20
	NORMAL	3,350.0	10.39	123.64	3,301.11	-303.66	449.02	542.05	0.52	0.25	2.55	62.11
	NORMAL	3,446.0	10.58	123.47	3,395.51	-313.31	463.58	559.52	0.20	0.20	-0.18	350.67
	NORMAL	3,542.0	9.79	121.83	3,489.99	-322.48	477.86	576.49	0.88	-0.82	-1.71	199.35
	NORMAL	3,637.0	9.28	123.78	3,583.68	-331.00	491.09	592.21	0.64	-0.54	2.05	148.67
	NORMAL	3,733.0	8.69	122.89	3,678.50	-339.24	503.62	607.20	0.63	-0.61	-0.93	192.82
	NORMAL	3,828.0	10.21	124.12	3,772.21	-347.86	516.61	622.80	1.61	1.60	1.29	8.18
	NORMAL	3,924.0	10.09	125.55	3,866.71	-357.52	530.50	639.71	0.29	-0.12	1.49	116.17
	NORMAL	4,040.0	10.55	125.02	3,980.83	-369.53	547.46	660.49	0.40	0.40	-0.46	348.08
	NORMAL	4,115.0	10.37	126.54	4,054.59	-377.48	558.51	674.10	0.44	-0.24	2.03	123.86
	NORMAL	4,211.0	9.26	124.50	4,149.18	-387.00	571.82	690.46	1.21	-1.16	-2.13	196.39
	NORMAL	4,307.0	9.96	122.99	4,243.83	-395.90	585.15	706.49	0.77	0.73	-1.57	339.45
	NORMAL	4,402.0	9.68	123.17	4,337.44	-404.74	598.72	722.68	0.30	-0.29	0.19	173.83
	NORMAL	4,498.0	9.24	125.05	4,432.13	-413.58	611.79	738.46	0.56	-0.46	1.96	145.85
	NORMAL	4,593.0	9.17	125.65	4,525.91	-422.38	624.18	753.65	0.13	-0.07	0.63	126.40
	NORMAL	4,687.0	9.92	122.07	4,618.61	-431.04	637.13	769.23	1.02	0.80	-3.81	319.86
	NORMAL	4,783.0	10.46	121.49	4,713.10	-439.98	651.57	786.20	0.57	0.56	-0.60	348.96
	NORMAL	4,878.0	10.52	124.23	4,806.51	-449.37	666.10	803.49	0.53	0.06	2.88	84.49
	NORMAL	4,974.0	10.69	123.79	4,900.87	-459.25	680.74	821.15	0.20	0.18	-0.46	334.37
	NORMAL	5,070.0	10.75	124.07	4,995.19	-469.22	695.56	839.01	0.08	0.06	0.29	41.10
4/27/2013	NORMAL	5,165.0	10.06	117.60	5,088.63	-478.08	710.27	856.16	1.43	-0.73	-6.81	236.28
	NORMAL	5,261.0	9.88	119.49	5,183.18	-486.02	724.87	872.69	0.39	-0.19	1.97	119.74
	NORMAL	5,357.0	8.95	123.57	5,277.88	-494.20	738.26	888.36	1.19	-0.97	4.25	146.34
	NORMAL	5,451.0	8.36	124.43	5,370.81	-502.11	749.99	902.51	0.64	-0.63	0.91	168.05
	NORMAL	5,547.0	6.90	127.07	5,465.96	-509.53	760.35	915.25	1.56	-1.52	2.75	167.87
	NORMAL	5,642.0	7.21	129.97	5,560.24	-516.80	769.47	926.88	0.50	0.33	3.05	50.47
	NORMAL	5,736.0	5.72	130.37	5,653.64	-523.62	777.56	937.41	1.59	-1.59	0.43	178.47
4/28/2013	NORMAL	5,832.0	4.38	132.42	5,749.27	-529.19	783.91	945.80	1.41	-1.40	2.14	173.35
	NORMAL	5,925.0	3.98	134.20	5,842.02	-533.84	788.85	952.49	0.45	-0.43	1.91	162.92
	NORMAL	6,020.0	3.97	131.87	5,936.79	-538.33	793.66	959.00	0.17	-0.01	-2.45	265.30
	NORMAL	6,115.0	2.67	131.44	6,031.63	-541.99	797.77	964.46	1.37	-1.37	-0.45	180.88
	NORMAL	6,211.0	1.66	134.33	6,127.56	-544.44	800.44	968.05	1.06	-1.05	3.01	175.27
	NORMAL	6,306.0	0.97	120.70	6,222.53	-545.82	802.11	970.21	0.79	-0.73	-14.35	197.67
	NORMAL	6,402.0	1.78	42.57	6,318.51	-545.13	803.82	971.23	1.92	0.84	-81.39	250.89
	NORMAL	6,497.0	1.52	47.01	6,413.47	-543.19	805.74	971.72	0.30	-0.27	4.67	156.02
	NORMAL	6,593.0	1.12	42.10	6,509.45	-541.62	807.30	972.12	0.43	-0.42	-5.11	193.34
	NORMAL	6,686.0	1.09	52.93	6,602.43	-540.42	808.62	972.53	0.23	-0.03	11.65	103.56
	NORMAL	6,781.0	1.06	64.09	6,697.41	-539.49	810.13	973.25	0.22	-0.03	11.75	103.77
4/29/2013	NORMAL	6,877.0	0.91	65.16	6,793.40	-538.78	811.62	974.08	0.16	-0.16	1.11	173.54
	NORMAL	6,972.0	0.60	76.89	6,888.39	-538.35	812.79	974.80	0.36	-0.33	12.35	159.28
	NORMAL	7,067.0	1.42	0.72	6,983.38	-537.06	813.29	974.49	1.48	0.86	-80.18	259.30
	NORMAL	7,163.0	1.21	352.40	7,079.35	-534.86	813.17	973.15	0.30	-0.22	-8.67	218.17
	NORMAL	7,257.0	1.04	333.24	7,173.33	-533.12	812.65	971.74	0.44	-0.18	-20.38	236.30

## 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 (°)
4/29/2013	NORMAL	7,352.0	1.05	331.77	7,268.32	-531.58	811.85	970.21	0.03	0.01	-1.55	289.72
	NORMAL	7,447.0	1.02	243.73	7,363.31	-531.19	810.68	969.02	1.51	-0.03	-92.67	225.13
4/30/2013	NORMAL	7,543.0	1.41	230.51	7,459.29	-532.32	809.01	968.28	0.50	0.41	-13.77	317.56
	NORMAL	7,638.0	1.25	218.88	7,554.26	-533.87	807.45	967.87	0.33	-0.17	-12.24	233.62
	NORMAL	7,734.0	0.86	211.64	7,650.24	-535.30	806.42	967.82	0.43	-0.41	-7.54	195.27
	NORMAL	7,829.0	0.36	209.39	7,745.24	-536.16	805.90	967.88	0.53	-0.53	-2.37	181.62
	NORMAL	7,925.0	0.71	216.98	7,841.23	-536.90	805.39	967.88	0.37	0.36	7.91	15.26
	NORMAL	8,021.0	0.55	221.34	7,937.23	-537.72	804.73	967.80	0.17	-0.17	4.54	165.49
	NORMAL	8,117.0	0.97	184.08	8,033.22	-538.88	804.37	968.15	0.65	0.44	-38.81	290.71
	NORMAL	8,213.0	0.56	135.82	8,129.21	-540.03	804.64	969.02	0.76	-0.43	-50.27	214.98
	NORMAL	8,308.0	0.55	187.65	8,224.21	-540.81	804.90	969.68	0.51	-0.01	54.56	116.98
	NORMAL	8,402.0	1.21	200.62	8,318.20	-542.19	804.49	970.12	0.73	0.70	13.80	23.35
5/1/2013	NORMAL	8,496.0	0.55	193.62	8,412.19	-543.56	804.03	970.51	0.71	-0.70	-7.45	185.76
	NORMAL	8,591.0	0.66	150.61	8,507.18	-544.48	804.19	971.17	0.48	0.12	-45.27	261.49
	NORMAL	8,687.0	0.96	165.76	8,603.17	-545.74	804.66	972.27	0.38	0.31	15.78	43.26
	NORMAL	8,783.0	1.11	174.58	8,699.16	-547.44	804.95	973.46	0.23	0.16	9.19	51.19
	NORMAL	8,878.0	1.03	191.97	8,794.14	-549.19	804.86	974.38	0.35	-0.08	18.31	112.43
	NORMAL	8,960.0	0.95	177.50	8,876.13	-550.59	804.74	975.07	0.32	-0.10	-17.65	245.17