

# Deviation Summary

PICEANCE VLY

## 1 General

### 1.1 Customer Information

Company	PICEANCE VLY
Representative	
Address	

### 1.2 Well/Wellbore Information

Well	RWF 333-25	Wellbore No.	00
Wellbore Legal Name	RWF 333-25	Common Wellbore Name	RWF 333-25
Project	RU 25-06S-094W	Site	RWF 43-25 Pad
Vertical Section Azimuth	337.66 (°)	North reference	True
Origin N/S		Origin E/W	
Spud date	6/15/2014	UWI	RWF 333-25
Active datum	KB @6,259.0ft (above Mean Sea Level)		

## 2 Survey Name

### 2.1 Survey Name: Survey #1

Survey Name	Survey #1	Company	MOSTAR
Date Started	6/15/2014	Ended	
Tool Name	MWD	Engineer	CHRIS COBLE

#### 2.1.1 Tie On Point

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)
		173.58			

#### 2.1.2 Survey Stations

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 (°)
6/15/2014	NORMAL	47.0	0.18	173.58	47.00	-0.07	0.01	-0.07	0.38	0.38	0.00	173.58
	NORMAL	71.0	0.53	168.31	71.00	-0.22	0.03	-0.22	1.46	1.46	-21.96	352.03
	NORMAL	101.0	0.53	124.63	101.00	-0.43	0.18	-0.47	1.31	0.00	-145.60	248.16
	NORMAL	132.0	0.79	67.85	132.00	-0.44	0.49	-0.59	2.15	0.84	-183.16	261.64
	NORMAL	162.0	1.14	39.37	161.99	-0.13	0.87	-0.45	1.94	1.17	-94.93	291.31
	NORMAL	192.0	1.85	17.67	191.98	0.57	1.21	0.06	2.99	2.37	-72.33	310.25
	NORMAL	223.0	2.55	6.59	222.96	1.73	1.44	1.05	2.63	2.26	-35.74	323.10
	NORMAL	253.0	2.99	359.91	252.92	3.17	1.52	2.36	1.82	1.47	-22.27	320.37
	NORMAL	283.0	3.34	347.87	282.88	4.81	1.33	3.94	2.50	1.17	-40.13	291.67
	NORMAL	313.0	3.78	340.58	312.82	6.60	0.82	5.79	2.10	1.47	-24.30	310.51
	NORMAL	343.0	4.49	334.86	342.74	8.59	-0.01	7.95	2.73	2.37	-19.07	326.97
	NORMAL	374.0	5.37	336.18	373.63	11.02	-1.11	10.61	2.86	2.84	4.26	8.00
	NORMAL	404.0	6.51	335.48	403.47	13.85	-2.38	13.72	3.81	3.80	-2.33	356.02
	NORMAL	434.0	7.74	334.16	433.23	17.22	-3.97	17.43	4.14	4.10	-4.40	351.76
	NORMAL	452.0	8.18	334.73	451.06	19.46	-5.04	19.92	2.48	2.44	3.17	10.45
	NORMAL	482.0	8.66	334.73	480.74	23.44	-6.92	24.31	1.60	1.60	0.00	0.00
	NORMAL	512.0	8.92	335.79	510.38	27.60	-8.84	28.89	1.02	0.87	3.53	32.45
	NORMAL	542.0	9.14	336.67	540.01	31.91	-10.73	33.59	0.87	0.73	2.93	32.56
	NORMAL	573.0	9.32	336.84	570.61	36.48	-12.70	38.57	0.59	0.58	0.55	8.70
	NORMAL	603.0	9.89	335.70	600.19	41.06	-14.71	43.57	2.00	1.90	-3.80	340.98
	NORMAL	633.0	10.55	334.38	629.71	45.88	-16.96	48.89	2.33	2.20	-4.40	339.81

## 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 (")
6/15/2014	NORMAL	694.0	11.65	333.77	689.57	56.44	-22.10	60.61	1.81	1.80	-1.00	353.61
	NORMAL	784.0	12.62	335.17	777.56	73.52	-30.24	79.50	1.13	1.08	1.56	17.56
	NORMAL	875.0	13.85	333.59	866.14	92.30	-39.26	100.29	1.41	1.35	-1.74	342.84
	NORMAL	967.0	12.75	331.75	955.67	111.10	-48.96	121.38	1.28	-1.20	-2.00	200.15
	NORMAL	1,060.0	11.56	336.67	1,046.59	128.70	-57.51	140.90	1.70	-1.28	5.29	141.35
	NORMAL	1,133.0	10.59	337.19	1,118.23	141.60	-63.01	154.92	1.34	-1.33	0.71	174.38
6/15/2014	Tie On	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/16/2014	NORMAL	1,265.0	11.47	336.84	1,247.79	164.85	-72.87	180.18	0.67	0.67	-0.27	355.48
	NORMAL	1,360.0	12.18	336.58	1,340.77	182.73	-80.57	199.64	0.75	0.75	-0.27	355.58
	NORMAL	1,455.0	12.75	336.32	1,433.53	201.53	-88.77	220.14	0.60	0.60	-0.27	354.25
	NORMAL	1,550.0	12.35	337.11	1,526.26	220.49	-96.93	240.78	0.46	-0.42	0.83	157.16
	NORMAL	1,646.0	11.56	339.39	1,620.18	238.95	-104.31	260.66	0.96	-0.82	2.38	150.24
	NORMAL	1,742.0	11.74	338.78	1,714.20	257.05	-111.23	280.04	0.23	0.19	-0.64	325.32
6/17/2014	NORMAL	1,837.0	10.59	340.27	1,807.40	274.28	-117.67	298.42	1.25	-1.21	1.57	166.65
	NORMAL	1,933.0	10.11	337.11	1,901.84	290.35	-123.93	315.66	0.77	-0.50	-3.29	228.24
	NORMAL	2,028.0	10.46	336.05	1,995.32	305.91	-130.67	332.62	0.42	0.37	-1.12	331.08
	NORMAL	2,123.0	10.73	335.17	2,088.70	321.82	-137.89	350.08	0.33	0.28	-0.93	328.63
	NORMAL	2,219.0	10.64	337.72	2,183.03	338.13	-145.00	367.87	0.50	-0.09	2.66	102.03
	NORMAL	2,315.0	10.46	342.64	2,277.41	354.65	-150.96	385.41	0.96	-0.19	5.13	103.71
	NORMAL	2,410.0	10.68	341.85	2,370.80	371.24	-156.28	402.78	0.28	0.23	-0.83	326.24
	NORMAL	2,506.0	11.12	341.76	2,465.07	388.49	-161.95	420.89	0.46	0.46	-0.09	357.74
	NORMAL	2,601.0	11.78	341.33	2,558.18	406.38	-167.92	439.70	0.70	0.69	-0.45	352.42
	NORMAL	2,696.0	11.21	341.68	2,651.27	424.33	-173.92	458.59	0.60	-0.60	0.37	173.20
	NORMAL	2,792.0	10.46	340.89	2,745.56	441.42	-179.71	476.60	0.80	-0.78	-0.82	190.81
	NORMAL	2,887.0	10.81	340.18	2,838.93	457.95	-185.55	494.11	0.39	0.37	-0.75	339.13
	NORMAL	2,983.0	11.34	339.30	2,933.14	475.25	-191.94	512.54	0.58	0.55	-0.92	341.88
	NORMAL	3,078.0	10.37	340.36	3,026.44	492.04	-198.12	530.42	1.04	-1.02	1.12	168.89
	NORMAL	3,173.0	10.68	340.45	3,119.84	508.39	-203.94	547.75	0.33	0.33	0.09	3.08
	NORMAL	3,269.0	11.03	339.39	3,214.12	525.37	-210.15	565.81	0.42	0.36	-1.10	329.78
	NORMAL	3,362.0	11.43	339.83	3,305.34	542.35	-216.46	583.92	0.44	0.43	0.47	12.31
	NORMAL	3,457.0	11.69	339.04	3,398.41	560.17	-223.14	602.94	0.32	0.27	-0.83	328.28
	NORMAL	3,552.0	11.96	339.30	3,491.40	578.36	-230.07	622.40	0.29	0.28	0.27	11.29
	NORMAL	3,648.0	10.86	338.07	3,585.50	596.06	-236.96	641.39	1.17	-1.15	-1.28	191.87
	NORMAL	3,743.0	10.90	336.40	3,678.79	612.59	-243.90	659.32	0.33	0.04	-1.76	276.41
	NORMAL	3,839.0	11.39	336.05	3,772.98	629.57	-251.38	677.87	0.52	0.51	-0.36	351.97
	NORMAL	3,934.0	11.91	336.76	3,866.02	647.15	-259.06	697.05	0.57	0.55	0.75	15.76
	NORMAL	4,029.0	11.34	336.14	3,959.07	664.70	-266.70	716.19	0.61	-0.60	-0.65	192.06
6/18/2014	NORMAL	4,125.0	10.07	334.91	4,053.40	680.94	-274.08	734.01	1.34	-1.32	-1.28	189.59
	NORMAL	4,220.0	10.11	333.77	4,146.93	695.94	-281.29	750.62	0.21	0.04	-1.20	280.76
	NORMAL	4,315.0	10.33	335.08	4,240.42	711.14	-288.56	767.45	0.34	0.23	1.38	47.22
	NORMAL	4,410.0	10.73	334.12	4,333.82	726.82	-296.01	784.78	0.46	0.42	-1.01	335.85
	NORMAL	4,505.0	11.12	333.94	4,427.10	743.01	-303.89	802.75	0.41	0.41	-0.19	354.91
	NORMAL	4,600.0	11.87	334.65	4,520.20	760.07	-312.10	821.65	0.80	0.79	0.75	11.03
	NORMAL	4,695.0	10.99	337.90	4,613.31	777.29	-319.69	840.46	1.15	-0.93	3.42	145.39
	NORMAL	4,790.0	10.07	340.62	4,706.71	793.51	-325.86	857.81	1.10	-0.97	2.86	152.95
	NORMAL	4,886.0	9.63	339.66	4,801.30	808.96	-331.43	874.22	0.49	-0.46	-1.00	200.00
6/19/2014	NORMAL	4,981.0	9.54	340.18	4,894.97	823.82	-336.86	890.03	0.13	-0.09	0.55	136.36
	NORMAL	5,077.0	10.29	340.01	4,989.54	839.36	-342.49	906.54	0.78	0.78	-0.18	357.68
	NORMAL	5,173.0	9.36	341.15	5,084.13	854.81	-347.95	922.90	0.99	-0.97	1.19	168.75
	NORMAL	5,267.0	8.18	340.36	5,177.03	868.34	-352.66	937.21	1.26	-1.26	-0.84	185.44
	NORMAL	5,361.0	6.77	341.24	5,270.23	879.88	-356.69	949.42	1.50	-1.50	0.94	175.79
	NORMAL	5,457.0	6.64	339.92	5,365.57	890.45	-360.42	960.62	0.21	-0.14	-1.38	229.20
	NORMAL	5,553.0	5.71	342.82	5,461.01	900.23	-363.73	970.92	1.02	-0.97	3.02	162.90
	NORMAL	5,647.0	4.84	350.12	5,554.61	908.60	-365.80	979.45	1.17	-0.93	7.77	145.95
	NORMAL	5,743.0	3.69	357.32	5,650.35	915.68	-366.64	986.31	1.32	-1.20	7.50	158.59
	NORMAL	5,838.0	3.30	358.90	5,745.17	921.47	-366.83	991.74	0.42	-0.41	1.66	166.91

## 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 (°)
6/20/2014	NORMAL	5,933.0	2.68	10.33	5,840.04	926.39	-366.49	996.16	0.90	-0.65	12.03	141.73
	NORMAL	6,029.0	2.37	16.04	5,935.95	930.50	-365.53	999.60	0.42	-0.32	5.95	143.77
	NORMAL	6,124.0	2.07	18.41	6,030.88	934.02	-364.45	1,002.44	0.33	-0.32	2.49	164.17
	NORMAL	6,220.0	1.41	33.97	6,126.83	936.64	-363.24	1,004.41	0.84	-0.69	16.21	152.01
	NORMAL	6,315.0	1.36	37.14	6,221.80	938.51	-361.91	1,005.63	0.10	-0.05	3.34	124.71
6/21/2014	NORMAL	6,411.0	1.19	28.61	6,317.78	940.29	-360.74	1,006.84	0.26	-0.18	-8.89	223.94
	NORMAL	6,507.0	1.23	356.97	6,413.76	942.20	-360.32	1,008.44	0.69	0.04	-32.96	257.52
	NORMAL	6,602.0	1.27	327.53	6,508.74	944.10	-360.94	1,010.44	0.67	0.04	-30.99	258.77
	NORMAL	6,698.0	1.27	294.48	6,604.72	945.44	-362.48	1,012.26	0.75	0.00	-34.43	253.48
	NORMAL	6,794.0	1.63	287.98	6,700.69	946.30	-364.75	1,013.92	0.41	0.38	-6.77	332.17
6/22/2014	NORMAL	6,890.0	2.55	287.10	6,796.62	947.35	-368.09	1,016.16	0.96	0.96	-0.92	357.56
	NORMAL	6,986.0	2.59	318.91	6,892.53	949.62	-371.55	1,019.57	1.47	0.04	33.14	104.32
	NORMAL	7,082.0	2.15	19.56	6,988.46	952.95	-372.38	1,022.97	2.52	-0.46	63.18	129.32
	NORMAL	7,177.0	2.24	28.17	7,083.39	956.26	-370.90	1,025.47	0.36	0.09	9.06	79.06
	NORMAL	7,272.0	1.93	24.92	7,178.33	959.35	-369.35	1,027.74	0.35	-0.33	-3.42	199.26
6/23/2014	NORMAL	7,368.0	1.50	32.83	7,274.28	961.87	-367.99	1,029.55	0.51	-0.45	8.24	155.08
	NORMAL	7,463.0	1.05	50.67	7,369.26	963.47	-366.64	1,030.52	0.63	-0.47	18.78	147.27
	NORMAL	7,558.0	0.92	59.02	7,464.25	964.42	-365.31	1,030.89	0.20	-0.14	8.79	136.29
	NORMAL	7,653.0	0.92	56.03	7,559.24	965.23	-364.03	1,031.16	0.05	0.00	-3.15	268.51
	NORMAL	7,749.0	0.44	124.41	7,655.23	965.46	-363.09	1,031.00	0.90	-0.50	71.23	151.64
6/24/2014	NORMAL	7,844.0	0.75	134.17	7,750.22	964.82	-362.34	1,030.13	0.34	0.33	10.27	23.03
	NORMAL	7,938.0	0.88	155.96	7,844.21	963.73	-361.60	1,028.84	0.35	0.14	23.18	78.39
	NORMAL	8,033.0	1.14	157.90	7,939.20	962.19	-360.95	1,027.17	0.28	0.27	2.04	8.46
	NORMAL	8,128.0	1.41	160.89	8,034.18	960.21	-360.21	1,025.06	0.29	0.28	3.15	15.34
	NORMAL	8,223.0	1.63	158.69	8,129.14	957.84	-359.34	1,022.54	0.24	0.23	-2.32	344.04
	NORMAL	8,318.0	2.11	163.70	8,224.09	954.91	-358.36	1,019.45	0.53	0.51	5.27	21.32
	NORMAL	8,414.0	2.15	158.78	8,320.03	951.53	-357.21	1,015.89	0.19	0.04	-5.13	279.87
	NORMAL	8,510.0	2.11	169.85	8,415.96	948.11	-356.25	1,012.36	0.43	-0.04	11.53	101.07
	NORMAL	8,605.0	2.24	177.41	8,510.89	944.54	-355.85	1,008.91	0.33	0.14	7.96	69.43
	NORMAL	8,701.0	2.73	191.65	8,606.80	940.42	-356.23	1,005.24	0.82	0.51	14.83	58.82
	NORMAL	8,796.0	2.68	197.27	8,701.70	936.09	-357.35	1,001.66	0.28	-0.05	5.92	103.47
	NORMAL	8,861.0	2.77	200.61	8,766.62	933.17	-358.35	999.34	0.28	0.14	5.14	62.13
	NORMAL	8,906.0	2.77	200.61	8,811.57	931.13	-359.12	997.74	0.00	0.00	0.00	0.00