

Deviation Summary

PICEANCE VLY

1 General

1.1 Customer Information

Company	PICEANCE VLY
Representative	
Address	

1.2 Well/Wellbore Information

Well	RWF 43-25	Wellbore No.	00
Wellbore Legal Name	RWF 43-25	Common Wellbore Name	RWF 43-25
Project	RU 25-06S-094W	Site	RWF 43-25 Pad
Vertical Section Azimuth	29.68 (°)	North reference	True
Origin N/S		Origin E/W	
Spud date	5/24/2014	UWI	RWF 43-25
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	5/24/2014	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)	Build Rate (°/100usft)	Turn (°/100usft)	Tface (°)
5/24/2014	Tie On	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/24/2014	NORMAL	162.0	2.11	68.64	161.96	1.09	2.78	2.32	1.30	1.30	0.00	68.64
	NORMAL	253.0	4.49	38.14	252.81	4.50	6.54	7.15	3.16	2.62	-33.52	307.69
	NORMAL	343.0	6.86	37.27	342.36	11.55	11.97	15.96	2.63	2.63	-0.97	357.49
5/25/2014	NORMAL	417.0	10.40	31.16	415.52	20.78	18.10	27.02	4.93	4.78	-8.26	342.44
	NORMAL	508.0	14.63	27.89	504.34	37.98	27.73	46.73	4.71	4.65	-3.59	348.89
	NORMAL	598.0	17.07	27.52	590.91	59.74	39.16	71.29	2.71	2.71	-0.41	357.45
	NORMAL	689.0	17.92	26.57	677.70	84.11	51.59	98.62	0.99	0.93	-1.04	340.97
	NORMAL	779.0	18.73	27.04	763.13	109.36	64.35	126.88	0.91	0.90	0.52	10.56
	NORMAL	871.0	16.88	27.21	850.72	134.40	77.18	154.98	2.01	-2.01	0.18	178.47
	NORMAL	962.0	17.33	26.91	937.70	158.24	89.35	181.72	0.50	0.49	-0.33	348.76
	NORMAL	1,056.0	18.46	27.78	1,027.15	183.89	102.62	210.58	1.24	1.20	0.93	13.72
	NORMAL	1,121.0	17.48	29.50	1,088.98	201.49	112.23	230.62	1.71	-1.51	2.65	152.38
5/26/2014	NORMAL	1,265.0	17.06	28.80	1,226.48	238.82	133.05	273.37	0.33	-0.29	-0.49	205.99
	NORMAL	1,360.0	16.84	29.15	1,317.36	263.05	146.47	301.07	0.26	-0.23	0.37	155.29
	NORMAL	1,455.0	16.09	31.96	1,408.46	286.24	160.14	327.98	1.15	-0.79	2.96	134.62
	NORMAL	1,550.0	16.66	31.53	1,499.61	309.02	174.23	354.75	0.61	0.60	-0.45	347.79
	NORMAL	1,646.0	16.00	30.99	1,591.74	332.09	188.24	381.73	0.71	-0.69	-0.56	192.70
	NORMAL	1,742.0	15.65	30.55	1,684.10	354.58	201.63	407.90	0.39	-0.36	-0.46	198.71
	NORMAL	1,837.0	16.26	29.85	1,775.44	377.15	214.77	434.01	0.67	0.64	-0.74	342.16
	NORMAL	1,933.0	15.47	29.59	1,867.78	399.94	227.78	460.26	0.83	-0.82	-0.27	185.02

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 (°)
5/26/2014	NORMAL	2,028.0	16.22	27.30	1,959.17	422.75	240.12	486.18	1.03	0.79	-2.41	319.08
	NORMAL	2,124.0	16.31	30.12	2,051.33	446.32	253.03	513.06	0.83	0.09	2.94	84.85
	NORMAL	2,219.0	16.97	29.94	2,142.35	469.88	266.65	540.26	0.70	0.69	-0.19	355.45
	NORMAL	2,315.0	15.96	30.38	2,234.41	493.40	280.32	567.47	1.06	-1.05	0.46	173.17
	NORMAL	2,410.0	15.21	30.82	2,325.92	515.37	293.31	592.99	0.80	-0.79	0.46	171.25
	NORMAL	2,506.0	15.47	29.59	2,418.50	537.32	306.08	618.39	0.43	0.27	-1.28	308.03
5/27/2014	NORMAL	2,601.0	15.03	31.96	2,510.15	558.79	318.86	643.36	0.80	-0.46	2.49	126.35
	NORMAL	2,696.0	14.77	31.70	2,601.96	579.54	331.74	667.77	0.28	-0.27	-0.27	194.29
	NORMAL	2,792.0	15.74	31.52	2,694.58	601.06	344.98	693.02	1.01	1.01	-0.19	357.12
	NORMAL	2,887.0	16.31	30.73	2,785.88	623.51	358.53	719.24	0.64	0.60	-0.83	338.68
	NORMAL	2,983.0	16.61	30.29	2,877.95	646.94	372.34	746.43	0.34	0.31	-0.46	337.22
	NORMAL	3,078.0	16.31	30.12	2,969.06	670.21	385.88	773.35	0.32	-0.32	-0.18	189.04
	NORMAL	3,174.0	16.09	30.20	3,061.25	693.36	399.34	800.13	0.23	-0.23	0.08	174.25
	NORMAL	3,269.0	16.53	29.67	3,152.42	716.48	412.65	826.81	0.49	0.46	-0.56	341.06
	NORMAL	3,362.0	16.53	29.15	3,241.58	739.53	425.64	853.27	0.16	0.00	-0.56	269.75
	NORMAL	3,457.0	16.26	28.80	3,332.72	762.99	438.63	880.08	0.30	-0.28	-0.37	199.93
	NORMAL	3,552.0	16.04	28.27	3,423.97	786.21	451.26	906.50	0.28	-0.23	-0.56	213.57
	NORMAL	3,648.0	16.13	27.83	3,516.21	809.68	463.76	933.09	0.16	0.09	-0.46	306.23
	NORMAL	3,743.0	16.31	26.86	3,607.43	833.25	475.95	959.60	0.34	0.19	-1.02	303.13
	NORMAL	3,839.0	16.44	26.86	3,699.53	857.39	488.18	986.63	0.14	0.14	0.00	0.00
	NORMAL	3,934.0	16.57	30.73	3,790.62	881.03	501.18	1,013.61	1.17	0.14	4.07	85.11
	NORMAL	4,029.0	16.70	29.50	3,881.65	904.56	514.82	1,040.80	0.40	0.14	-1.29	289.67
	NORMAL	4,125.0	16.22	29.41	3,973.71	928.24	528.20	1,068.00	0.50	-0.50	-0.09	183.00
	NORMAL	4,220.0	16.09	29.50	4,064.96	951.26	541.19	1,094.43	0.14	-0.14	0.09	169.14
	NORMAL	4,316.0	16.13	28.97	4,157.19	974.50	554.20	1,121.07	0.16	0.04	-0.55	284.96
	NORMAL	4,410.0	16.00	29.32	4,247.52	997.22	566.87	1,147.08	0.17	-0.14	0.37	143.48
	NORMAL	4,505.0	16.22	30.29	4,338.79	1,020.09	579.98	1,173.44	0.37	0.23	1.02	51.21
	NORMAL	4,600.0	16.04	30.20	4,430.05	1,042.89	593.27	1,199.83	0.19	-0.19	-0.09	187.87
	NORMAL	4,695.0	16.13	29.50	4,521.33	1,065.72	606.37	1,226.15	0.23	0.09	-0.74	294.56
	NORMAL	4,790.0	16.66	29.67	4,612.47	1,089.04	619.61	1,252.97	0.56	0.56	0.18	5.25
	NORMAL	4,886.0	16.92	28.71	4,704.37	1,113.25	633.13	1,280.70	0.40	0.27	-1.00	312.69
	NORMAL	4,981.0	16.22	28.80	4,795.43	1,137.00	646.16	1,307.78	0.74	-0.74	0.09	177.94
5/28/2014	NORMAL	5,077.0	14.73	28.36	4,887.95	1,159.49	658.42	1,333.39	1.56	-1.55	-0.46	184.29
	NORMAL	5,173.0	13.76	30.38	4,980.99	1,180.08	669.99	1,357.01	1.14	-1.01	2.10	153.84
	NORMAL	5,267.0	14.29	31.79	5,072.19	1,199.59	681.76	1,379.78	0.67	0.56	1.50	33.50
	NORMAL	5,361.0	13.41	31.70	5,163.46	1,218.72	693.60	1,402.27	0.94	-0.94	-0.10	181.36
	NORMAL	5,457.0	11.87	30.29	5,257.13	1,236.72	704.43	1,423.27	1.64	-1.60	-1.47	190.64
	NORMAL	5,553.0	10.81	29.15	5,351.25	1,253.11	713.79	1,442.14	1.13	-1.10	-1.19	191.38
5/29/2014	NORMAL	5,648.0	10.11	28.45	5,444.67	1,268.22	722.11	1,459.39	0.75	-0.74	-0.74	189.95
	NORMAL	5,743.0	8.48	29.67	5,538.42	1,281.64	729.55	1,474.73	1.73	-1.72	1.28	173.71
	NORMAL	5,838.0	7.25	29.94	5,632.53	1,292.92	736.00	1,487.73	1.30	-1.29	0.28	178.41
	NORMAL	5,934.0	6.50	33.45	5,727.84	1,302.70	742.02	1,499.21	0.90	-0.78	3.66	152.48
	NORMAL	6,029.0	5.14	32.49	5,822.35	1,310.78	747.27	1,508.83	1.44	-1.43	-1.01	183.62
	NORMAL	6,125.0	3.96	33.89	5,918.04	1,317.16	751.43	1,516.43	1.23	-1.23	1.46	175.32
	NORMAL	6,220.0	2.73	41.54	6,012.88	1,321.57	754.76	1,521.91	1.37	-1.29	8.05	163.85
	NORMAL	6,315.0	2.15	45.85	6,107.79	1,324.51	757.54	1,525.84	0.64	-0.61	4.54	164.59
	NORMAL	6,411.0	1.85	47.69	6,203.73	1,326.81	759.98	1,529.04	0.32	-0.31	1.92	168.84
	NORMAL	6,507.0	1.71	50.77	6,299.69	1,328.76	762.23	1,531.85	0.18	-0.15	3.21	147.19
5/30/2014	NORMAL	6,602.0	1.71	42.33	6,394.64	1,330.70	764.29	1,534.56	0.26	0.00	-8.88	265.78
	NORMAL	6,668.0	1.36	47.34	6,460.62	1,331.96	765.53	1,536.27	0.57	-0.53	7.59	161.51
	NORMAL	6,698.0	1.10	49.45	6,490.61	1,332.39	766.01	1,536.88	0.88	-0.87	7.03	171.17
	NORMAL	6,794.0	1.01	60.26	6,586.60	1,333.41	767.44	1,538.47	0.23	-0.09	11.26	119.67
	NORMAL	6,890.0	0.75	87.33	6,682.59	1,333.86	768.80	1,539.54	0.50	-0.27	28.20	135.07
	NORMAL	6,986.0	0.79	158.61	6,778.58	1,333.27	769.67	1,539.46	0.94	0.04	74.25	123.56
	NORMAL	7,082.0	1.32	186.56	6,874.56	1,331.55	769.79	1,538.02	0.75	0.55	29.11	58.71
	NORMAL	7,177.0	1.80	192.89	6,969.53	1,329.01	769.33	1,535.59	0.54	0.51	6.66	22.93

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 (°)
5/30/2014	NORMAL	7,273.0	1.67	183.40	7,065.48	1,326.15	768.91	1,532.89	0.33	-0.14	-9.89	240.96
	NORMAL	7,369.0	1.01	201.33	7,161.46	1,323.96	768.52	1,530.80	0.81	-0.69	18.68	156.32
	NORMAL	7,463.0	1.36	221.98	7,255.44	1,322.36	767.47	1,528.89	0.58	0.37	21.97	61.29
	NORMAL	7,558.0	1.89	227.61	7,350.40	1,320.47	765.56	1,526.30	0.58	0.56	5.93	19.59
5/31/2014	NORMAL	7,653.0	1.41	226.20	7,445.36	1,318.60	763.56	1,523.69	0.51	-0.51	-1.48	184.13
	NORMAL	7,749.0	0.40	255.03	7,541.35	1,317.70	762.38	1,522.32	1.12	-1.05	30.03	169.68
	NORMAL	7,844.0	0.57	238.50	7,636.34	1,317.36	761.66	1,521.67	0.23	0.18	-17.40	312.08
6/1/2014	NORMAL	7,938.0	0.88	242.11	7,730.34	1,316.78	760.62	1,520.65	0.33	0.33	3.84	10.19
	NORMAL	8,033.0	1.23	249.58	7,825.32	1,316.09	759.02	1,519.26	0.40	0.37	7.86	25.22
	NORMAL	8,128.0	1.67	247.73	7,920.29	1,315.20	756.79	1,517.38	0.47	0.46	-1.95	353.00
	NORMAL	8,223.0	2.20	240.79	8,015.23	1,313.79	753.91	1,514.73	0.61	0.56	-7.31	332.65
	NORMAL	8,318.0	2.68	235.96	8,110.15	1,311.66	750.48	1,511.18	0.55	0.51	-5.08	334.38
	NORMAL	8,414.0	3.03	233.14	8,206.03	1,308.88	746.59	1,506.84	0.39	0.36	-2.94	336.72
	NORMAL	8,510.0	3.30	236.04	8,301.88	1,305.81	742.27	1,502.04	0.33	0.28	3.02	32.12
	NORMAL	8,605.0	3.69	227.78	8,396.71	1,302.23	737.74	1,496.68	0.67	0.41	-8.69	303.59
	NORMAL	8,701.0	4.35	225.14	8,492.47	1,297.59	732.87	1,490.23	0.71	0.69	-2.75	343.02
	NORMAL	8,796.0	5.05	225.85	8,587.15	1,292.13	727.32	1,482.75	0.74	0.74	0.75	5.10
	NORMAL	8,891.0	5.14	224.27	8,681.77	1,286.17	721.35	1,474.61	0.18	0.09	-1.66	301.89
	NORMAL	8,986.0	5.36	224.62	8,776.38	1,279.97	715.26	1,466.21	0.23	0.23	0.37	8.46
	NORMAL	9,030.0	5.58	224.09	8,820.18	1,276.97	712.33	1,462.15	0.51	0.50	-1.20	346.80
	NORMAL	9,075.0	5.58	224.09	8,864.96	1,273.83	709.28	1,457.91	0.00	0.00	0.00	0.00