

I General

1.1 Customer Information

Company	PICEANCE VLY
Representative	
Address	

1.2 Well Information

Well	RWF 14-29	Wellbore No.	OH
Well Name	RWF 14-29	Common Name	RWF 14-29
Project	RU 29-06S-094W	Site	RWF 14-29 Pad
Vertical Section	96.10 (°)	North Reference	
Azimuth		Origin E/W	
Origin N/S		UWI	RWF 14-29
Spud Date	6/2/2013		
Active Datum	KB @5,445.2ft (above Mean Sea Level)		

2 Survey Name

2.1 Survey Name: Survey #1

Survey Name	Survey #1	Company	MOSTAR
Date Started	6/1/2013	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 (°)
6/1/2013	Tie On	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Survey Name: Survey #1

Survey Name	Survey #1	Company	MOSTAR
Date Started	6/2/2013	Ended	
Tool Name	MWD	Engineer	

2.2.1 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

2.2.2 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 (°)
6/2/2013	Tie On	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/2/2013	NORMAL	100.0	0.18	175.17	100.00	-0.16	0.01	0.03	0.18	0.18	0.00	175.17
	NORMAL	129.0	0.18	129.55	129.00	-0.23	0.05	0.08	0.48	0.00	-157.31	247.19

2.2.2 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 (°)
6/2/2013	NORMAL	159.0	0.35	65.13	159.00	-0.22	0.17	0.19	1.06	0.57	-214.73	264.77
	NORMAL	170.0	0.70	55.15	170.00	-0.17	0.26	0.27	3.28	3.18	-90.73	340.33
	NORMAL	200.0	0.97	55.15	200.00	0.08	0.62	0.60	0.90	0.90	0.00	0.00
	NORMAL	230.0	0.70	47.77	229.99	0.35	0.96	0.92	0.97	-0.90	-24.60	198.06
	NORMAL	261.0	0.97	67.19	260.99	0.58	1.34	1.27	1.25	0.87	62.65	56.33
	NORMAL	291.0	1.06	86.52	290.98	0.69	1.85	1.77	1.17	0.30	64.43	85.07
	NORMAL	322.0	1.23	85.73	321.98	0.73	2.47	2.38	0.55	0.55	-2.55	354.30
	NORMAL	382.0	2.29	116.67	381.95	0.24	4.18	4.14	2.31	1.77	51.57	58.04
	NORMAL	413.0	2.55	111.22	412.92	-0.28	5.38	5.38	1.12	0.84	-17.58	315.74
	NORMAL	443.0	2.90	106.21	442.89	-0.74	6.73	6.77	1.41	1.17	-16.70	323.24
	NORMAL	503.0	4.31	106.12	502.77	-1.79	10.36	10.49	2.35	2.35	-0.15	359.73
	NORMAL	563.0	5.63	100.68	562.54	-2.96	15.41	15.64	2.33	2.20	-9.07	337.63
	NORMAL	593.0	5.98	99.18	592.39	-3.48	18.40	18.67	1.27	1.17	-5.00	335.82
	NORMAL	624.0	6.68	97.07	623.20	-3.96	21.79	22.08	2.38	2.26	-6.81	340.57
	NORMAL	685.0	6.97	91.55	683.77	-4.50	29.01	29.32	1.18	0.48	-9.05	291.09
	NORMAL	776.0	6.61	84.23	774.13	-4.12	39.74	39.95	1.03	-0.40	-8.04	243.8'
	NORMAL	866.0	5.89	84.68	863.60	-3.17	49.49	49.55	0.80	-0.80	0.50	176.33
	NORMAL	957.0	5.72	92.50	954.13	-2.93	58.67	58.65	0.89	-0.19	8.59	106.00
	NORMAL	1,052.0	6.42	101.73	1,048.60	-4.22	68.60	68.66	1.26	0.74	9.72	59.00
	NORMAL	1,080.0	6.77	101.55	1,076.41	-4.87	71.75	71.86	1.25	1.25	-0.64	356.53
6/3/2013	NORMAL	1,155.0	7.43	103.93	1,150.84	-6.92	80.79	81.07	0.96	0.88	3.17	25.2'
	NORMAL	1,250.0	6.46	96.72	1,245.14	-9.03	92.06	92.49	1.37	-1.02	-7.59	218.4'
	NORMAL	1,345.0	6.24	97.16	1,339.56	-10.30	102.49	103.00	0.24	-0.23	0.46	167.75
	NORMAL	1,441.0	6.46	94.96	1,434.97	-11.41	113.04	113.62	0.34	0.23	-2.29	311.02
	NORMAL	1,536.0	5.85	96.28	1,529.42	-12.40	123.18	123.80	0.66	-0.64	1.39	167.56
	NORMAL	1,631.0	5.80	95.49	1,623.93	-13.39	132.77	133.44	0.10	-0.05	-0.83	237.66
	NORMAL	1,726.0	5.45	97.42	1,718.47	-14.43	142.02	142.75	0.42	-0.37	2.03	152.57
6/4/2013	NORMAL	1,822.0	5.32	97.07	1,814.05	-15.57	150.96	151.76	0.14	-0.14	-0.36	194.0'
	NORMAL	1,917.0	5.05	94.96	1,908.66	-16.48	159.50	160.34	0.35	-0.28	-2.22	214.18
	NORMAL	2,012.0	4.70	94.70	2,003.32	-17.16	167.54	168.42	0.37	-0.37	-0.27	183.48
	NORMAL	2,107.0	6.29	97.07	2,097.88	-18.11	176.59	177.51	1.69	1.67	2.49	9.30
	NORMAL	2,203.0	6.37	98.57	2,193.29	-19.56	187.07	188.09	0.19	0.08	1.56	64.93
	NORMAL	2,298.0	6.29	98.74	2,287.71	-21.13	197.43	198.55	0.09	-0.08	0.18	166.90
	NORMAL	2,393.0	5.98	99.45	2,382.17	-22.74	207.45	208.69	0.34	-0.33	0.75	166.60
	NORMAL	2,489.0	5.89	100.85	2,477.66	-24.48	217.22	218.59	0.18	-0.09	1.46	122.56
	NORMAL	2,584.0	6.90	97.16	2,572.06	-26.11	227.67	229.16	1.15	1.06	-3.88	336.02
	NORMAL	2,679.0	6.99	95.14	2,666.37	-27.34	239.09	240.64	0.27	0.09	-2.13	289.22
	NORMAL	2,774.0	6.90	97.78	2,760.67	-28.63	250.50	252.13	0.35	-0.09	2.78	107.05
	NORMAL	2,870.0	7.03	95.58	2,855.96	-29.98	262.06	263.76	0.31	0.14	-2.29	294.88
	NORMAL	2,965.0	5.93	99.09	2,950.35	-31.32	272.69	274.48	1.23	-1.16	3.69	161.93
	NORMAL	3,061.0	6.24	97.78	3,045.81	-32.81	282.76	284.65	0.35	0.32	-1.36	335.22
	NORMAL	3,155.0	5.93	96.54	3,139.28	-34.06	292.65	294.61	0.36	-0.33	-1.32	202.36
	NORMAL	3,250.0	5.67	96.72	3,233.80	-35.17	302.18	304.21	0.27	-0.27	0.19	176.06
	NORMAL	3,346.0	5.89	94.17	3,329.31	-36.08	311.80	313.87	0.35	0.23	-2.66	309.3'
	NORMAL	3,441.0	5.80	94.44	3,423.81	-36.81	321.45	323.54	0.10	-0.09	0.28	163.15
	NORMAL	3,536.0	5.76	93.56	3,518.33	-37.47	330.99	333.10	0.10	-0.04	-0.93	245.27
	NORMAL	3,632.0	5.63	94.17	3,613.86	-38.12	340.50	342.62	0.15	-0.14	0.64	155.34
	NORMAL	3,727.0	5.45	93.56	3,708.41	-38.73	349.65	351.79	0.20	-0.19	-0.64	197.8'
	NORMAL	3,823.0	5.50	101.03	3,803.98	-39.90	358.72	360.92	0.74	0.05	7.78	89.7'
	NORMAL	3,918.0	5.41	101.29	3,898.55	-41.65	367.58	369.92	0.10	-0.09	0.27	164.77
	NORMAL	4,013.0	5.19	95.40	3,993.14	-42.93	376.25	378.68	0.62	-0.23	-6.20	245.07
	NORMAL	4,108.0	5.71	94.00	4,087.71	-43.66	385.24	387.70	0.56	0.55	-1.47	344.96
	NORMAL	4,203.0	5.36	96.63	4,182.27	-44.50	394.36	396.86	0.45	-0.37	2.77	145.37
6/5/2013	NORMAL	4,299.0	5.19	93.47	4,277.85	-44.85	403.34	405.82	0.27	-0.27	-0.28	185.27
	NORMAL	4,394.0	5.28	92.77	4,372.45	-45.32	411.99	414.48	0.12	0.09	-0.74	324.29
	NORMAL	4,489.0	4.88	96.46	4,467.08	-45.98	420.38	422.88	0.54	-0.42	3.88	142.58
	NORMAL	4,584.0	4.66	94.00	4,561.75	-46.71	428.24	430.78	0.32	-0.23	-2.59	221.70

2.2.2 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 (°)
6/5/2013	NORMAL	4,775.0	2.02	51.02	4,752.39	-44.80	439.25	441.53	2.12	-1.62	-29.51	208.12
	NORMAL	4,870.0	1.63	27.37	4,847.35	-42.55	441.18	443.20	0.88	-0.41	-24.89	231.14
	NORMAL	4,965.0	1.36	23.68	4,942.31	-40.31	442.25	444.03	0.30	-0.28	-3.88	197.79
	NORMAL	5,061.0	1.23	24.83	5,038.29	-38.34	443.14	444.71	0.14	-0.14	1.20	169.27
	NORMAL	5,156.0	1.27	26.94	5,133.27	-36.47	444.05	445.41	0.06	0.04	2.22	50.07
	NORMAL	5,251.0	1.05	19.20	5,228.25	-34.71	444.81	445.98	0.28	-0.23	-8.15	211.63
	NORMAL	5,346.0	0.66	0.83	5,323.24	-33.34	445.10	446.13	0.50	-0.41	-19.34	206.15
	NORMAL	5,442.0	0.61	15.77	5,419.23	-32.30	445.25	446.16	0.18	-0.05	15.56	114.18
	NORMAL	5,537.0	0.40	16.74	5,514.23	-31.49	445.48	446.31	0.22	-0.22	1.02	178.15
6/5/2013	NORMAL	4,680.0	3.56	79.05	4,657.50	-46.41	435.06	437.53	1.59	-1.15	-15.57	216.96
6/6/2013	NORMAL	5,632.0	0.66	24.12	5,609.22	-30.68	445.80	446.54	0.28	0.27	7.77	18.42
	NORMAL	5,727.0	0.70	67.01	5,704.22	-29.95	446.56	447.21	0.52	0.04	45.15	107.16
	NORMAL	5,822.0	0.75	80.99	5,799.21	-29.63	447.71	448.32	0.19	0.05	14.72	81.28
	NORMAL	5,917.0	1.01	64.55	5,894.20	-29.17	449.08	449.64	0.38	0.27	-17.31	307.42
	NORMAL	6,013.0	0.88	100.41	5,990.18	-28.94	450.57	451.09	0.62	-0.14	37.35	119.93
	NORMAL	6,108.0	1.01	121.95	6,085.17	-29.51	452.00	452.57	0.40	0.14	22.67	80.89
	NORMAL	6,203.0	1.14	131.44	6,180.16	-30.58	453.42	454.10	0.23	0.14	9.99	58.67
	NORMAL	6,298.0	1.10	151.82	6,275.14	-32.01	454.55	455.38	0.42	-0.04	21.45	105.86
	NORMAL	6,394.0	1.54	145.06	6,371.11	-33.88	455.73	456.75	0.49	0.46	-7.04	337.1
	NORMAL	6,489.0	1.76	159.21	6,466.07	-36.29	456.98	458.25	0.49	0.23	14.89	68.83
6/7/2013	NORMAL	6,584.0	1.50	155.96	6,561.03	-38.79	458.00	459.53	0.29	-0.27	-3.42	197.95
	NORMAL	6,680.0	1.71	143.74	6,657.00	-41.09	459.36	461.13	0.42	0.22	-12.73	295.33
	NORMAL	6,775.0	1.05	162.20	6,751.97	-43.06	460.46	462.43	0.83	-0.69	19.43	155.03
	NORMAL	6,870.0	0.92	249.56	6,846.96	-44.16	460.02	462.10	1.44	-0.14	91.96	137.63
	NORMAL	6,965.0	1.32	246.57	6,941.94	-44.86	458.30	460.47	0.43	0.42	-3.15	350.19
	NORMAL	7,060.0	1.23	240.86	7,036.92	-45.79	456.40	458.69	0.16	-0.09	-6.01	231.86
	NORMAL	7,156.0	1.36	242.00	7,132.89	-46.83	454.50	456.90	0.14	0.14	1.19	11.78
	NORMAL	7,251.0	1.45	238.93	7,227.87	-47.98	452.47	455.01	0.12	0.09	-3.23	318.55
	NORMAL	7,346.0	1.36	233.74	7,322.84	-49.27	450.53	453.22	0.16	-0.09	-5.46	232.15
6/8/2013	NORMAL	7,442.0	0.92	235.41	7,418.82	-50.38	448.98	451.79	0.46	-0.46	1.74	176.52
	NORMAL	7,537.0	1.41	213.18	7,513.80	-51.79	447.71	450.68	0.69	0.52	-23.40	305.84
	NORMAL	7,632.0	1.45	209.04	7,608.77	-53.82	446.49	449.68	0.12	0.04	-4.36	289.09
	NORMAL	7,728.0	1.58	199.55	7,704.73	-56.13	445.46	448.90	0.29	0.14	-9.89	292.59
	NORMAL	7,823.0	1.23	187.69	7,799.71	-58.37	444.88	448.57	0.48	-0.37	-12.48	213.89
	NORMAL	7,861.0	1.14	185.23	7,837.70	-59.15	444.79	448.56	0.27	-0.24	-6.47	208.25
	NORMAL	7,906.0	1.14	185.23	7,882.69	-60.04	444.71	448.57	0.00	0.00	0.00	0.00