

1 General

1.1 Customer Information

Company	PICEANCE VLY
Representative	
Address	

1.2 Well/Wellbore Information

Well	RWF 314-25	Wellbore No.	00
Wellbore Legal Name	RWF 314-25	Common Wellbore Name	RWF 314-25
Project	RU 25-06S-094W	Site	RWF 23-25 Pad
Vertical Section Azimuth	250.20 (°)	North reference	True
Origin N/S		Origin E/W	
Spud date	2/18/2014	UWI	RWF 314-25
Active datum	KB @6,122.0ft (above Mean Sea Level)		

2 Survey Name

2.1 Survey Name: Survey #1

Survey Name	Survey #1	Company	MOSTAR
Date Started	2/18/2014	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

6591

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 (°)
2/18/2014	Tie On	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/18/2014	NORMAL	102.0	0.70	233.44	102.00	-0.37	-0.50	0.60	0.69	0.69	0.00	233.44
	NORMAL	163.0	2.20	235.46	162.98	-1.26	-1.76	2.09	2.46	2.46	3.31	2.96
2/19/2014	NORMAL	254.0	2.38	248.12	253.90	-2.95	-4.96	5.66	0.59	0.20	13.91	76.81
	NORMAL	344.0	4.13	262.44	343.76	-4.07	-9.90	10.70	2.13	1.94	15.91	32.19
	NORMAL	435.0	6.42	263.94	434.37	-5.04	-18.21	18.84	2.52	2.52	1.65	4.19
	NORMAL	526.0	8.45	259.28	524.60	-6.82	-29.84	30.39	2.33	2.23	-5.12	341.14
	NORMAL	596.0	10.44	261.32	593.64	-8.74	-41.17	41.69	2.88	2.84	2.91	10.56
	NORMAL	687.0	12.57	258.50	682.81	-11.96	-59.02	59.58	2.42	2.34	-3.10	343.82
	NORMAL	777.0	14.33	260.10	770.34	-15.82	-79.59	80.25	2.00	1.96	1.78	12.72
	NORMAL	869.0	16.76	262.22	858.97	-19.58	-103.96	104.44	2.71	2.64	2.30	14.18
	NORMAL	960.0	17.77	259.35	945.87	-23.92	-130.60	130.99	1.45	1.11	-3.15	318.48
	NORMAL	1,054.0	17.96	259.00	1,035.34	-29.34	-158.93	159.47	0.23	0.20	-0.37	330.36
	NORMAL	1,120.0	18.77	259.25	1,097.97	-33.26	-179.35	180.01	1.23	1.23	0.38	5.67
2/20/2014	NORMAL	1,261.0	20.09	260.43	1,230.94	-41.52	-225.52	226.25	0.98	0.94	0.84	17.12
2/21/2014	NORMAL	1,356.0	18.64	259.64	1,320.56	-46.96	-256.54	257.28	1.55	-1.53	-0.83	189.87
	NORMAL	1,452.0	16.97	256.30	1,411.97	-53.04	-285.25	286.35	2.04	-1.74	-3.48	209.87
	NORMAL	1,547.0	17.89	255.77	1,502.60	-59.91	-312.86	314.66	0.98	0.97	-0.56	349.96
	NORMAL	1,643.0	17.32	260.25	1,594.11	-65.95	-341.24	343.41	1.53	-0.59	4.67	114.94
	NORMAL	1,738.0	17.76	259.37	1,684.69	-71.02	-369.42	371.63	0.54	0.46	-0.93	328.50
	NORMAL	1,834.0	18.29	258.23	1,775.98	-76.79	-398.55	401.00	0.66	0.55	-1.19	325.81

2.1.2 Survey Stations (Continued)

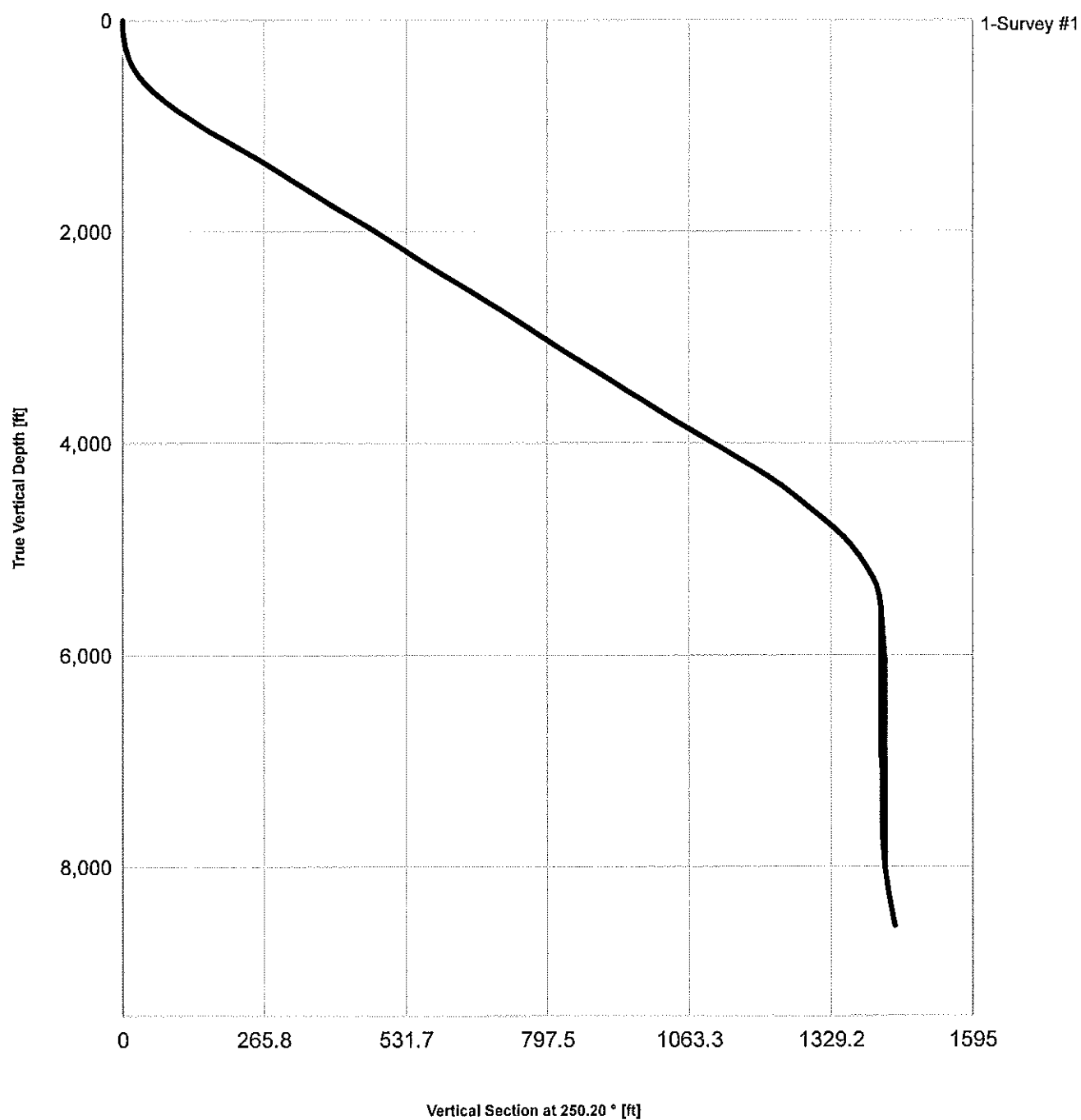
Date	Type	MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. sec. (ft)	DLS (°/100usft)	Build Rate (°/100usft)	Turn (°/100usft)	Tface (°)
2/21/2014	NORMAL	1,930.0	18.95	257.70	1,866.96	-83.19	-428.53	431.38	0.71	0.69	-0.55	345.37
	NORMAL	2,025.0	17.63	259.11	1,957.16	-89.19	-457.73	460.88	1.47	-1.39	1.48	162.14
	NORMAL	2,121.0	18.07	256.65	2,048.54	-95.38	-486.49	490.04	0.91	0.46	-2.56	299.09
	NORMAL	2,216.0	16.75	258.41	2,139.18	-101.53	-514.24	518.23	1.50	-1.39	1.85	159.09
	NORMAL	2,311.0	17.06	257.53	2,230.08	-107.29	-541.26	545.60	0.42	0.33	-0.93	320.04
	NORMAL	2,407.0	17.63	257.79	2,321.71	-113.40	-569.22	573.98	0.60	0.59	0.27	7.87
	NORMAL	2,502.0	18.15	253.84	2,412.12	-120.56	-597.49	603.01	1.39	0.55	-4.16	291.31
	NORMAL	2,598.0	18.77	252.43	2,503.18	-129.39	-626.58	633.36	0.80	0.65	-1.47	323.57
	NORMAL	2,693.0	17.32	249.35	2,593.51	-138.99	-654.38	662.78	1.83	-1.53	-3.24	211.89
	NORMAL	2,789.0	17.76	249.27	2,685.04	-149.21	-681.45	691.70	0.46	0.46	-0.08	356.83
	NORMAL	2,884.0	17.93	249.27	2,775.47	-159.52	-708.68	720.81	0.18	0.18	0.00	0.00
	NORMAL	2,980.0	16.48	249.97	2,867.18	-169.41	-735.29	749.21	1.53	-1.51	0.73	172.21
	NORMAL	3,075.0	16.88	250.41	2,958.18	-178.65	-760.94	776.47	0.44	0.42	0.46	17.73
	NORMAL	3,170.0	17.14	249.71	3,049.02	-188.13	-787.07	804.26	0.35	0.27	-0.74	321.44
	NORMAL	3,265.0	17.36	249.27	3,139.75	-198.00	-813.45	832.43	0.27	0.23	-0.46	329.12
	NORMAL	3,361.0	17.93	250.50	3,231.23	-208.00	-840.78	861.53	0.71	0.59	1.28	33.78
	NORMAL	3,456.0	17.54	249.62	3,321.72	-217.87	-867.98	890.47	0.50	-0.41	-0.93	214.08
	NORMAL	3,551.0	17.45	250.67	3,412.32	-227.57	-894.84	919.03	0.35	-0.09	1.11	106.41
	NORMAL	3,647.0	17.36	249.62	3,503.93	-237.32	-921.85	947.74	0.34	-0.09	-1.09	253.51
	NORMAL	3,742.0	17.41	249.53	3,594.59	-247.23	-948.45	976.12	0.06	0.05	-0.09	331.68
	NORMAL	3,837.0	17.80	250.15	3,685.14	-257.13	-975.42	1,004.86	0.46	0.41	0.65	25.98
	NORMAL	3,933.0	18.15	249.53	3,776.45	-267.34	-1,003.23	1,034.48	0.42	0.36	-0.65	331.04
2/22/2014	NORMAL	4,028.0	18.46	249.00	3,866.65	-277.91	-1,031.14	1,064.31	0.37	0.33	-0.56	331.51
	NORMAL	4,124.0	18.86	247.07	3,957.60	-289.40	-1,059.62	1,095.00	0.77	0.42	-2.01	302.02
	NORMAL	4,219.0	18.20	249.88	4,047.68	-300.48	-1,087.69	1,125.17	1.17	-0.69	2.96	127.79
	NORMAL	4,315.0	17.98	252.78	4,138.93	-310.03	-1,115.92	1,154.97	0.97	-0.23	3.02	105.10
	NORMAL	4,410.0	18.42	251.38	4,229.18	-319.16	-1,144.15	1,184.62	0.65	0.46	-1.47	314.51
	NORMAL	4,505.0	16.97	252.96	4,319.68	-328.02	-1,171.63	1,213.47	1.61	-1.53	1.66	162.43
	NORMAL	4,601.0	15.03	250.85	4,411.96	-336.21	-1,196.79	1,239.92	2.11	-2.02	-2.20	195.68
	NORMAL	4,696.0	13.80	253.48	4,503.97	-343.47	-1,219.29	1,263.55	1.47	-1.29	2.77	153.24
	NORMAL	4,792.0	14.29	251.38	4,597.10	-350.51	-1,241.49	1,286.82	0.74	0.51	-2.19	312.85
	NORMAL	4,887.0	13.32	252.25	4,689.36	-357.59	-1,263.02	1,309.48	1.04	-1.02	0.92	168.34
	NORMAL	4,983.0	13.67	251.90	4,782.71	-364.48	-1,284.34	1,331.87	0.37	0.36	-0.36	346.69
2/23/2014	NORMAL	5,079.0	10.81	250.23	4,876.51	-371.05	-1,303.60	1,352.22	3.00	-2.98	-1.74	186.24
	NORMAL	5,174.0	9.28	249.27	4,970.05	-376.78	-1,319.15	1,368.79	1.62	-1.61	-1.01	185.77
	NORMAL	5,270.0	7.91	247.42	5,064.97	-382.05	-1,332.49	1,383.13	1.46	-1.43	-1.93	190.50
	NORMAL	5,365.0	7.17	247.51	5,159.15	-386.83	-1,344.00	1,395.58	0.78	-0.78	0.09	179.13
	NORMAL	5,460.0	6.24	250.23	5,253.50	-390.85	-1,354.34	1,406.66	1.03	-0.98	2.86	162.49
	NORMAL	5,556.0	3.96	248.65	5,349.12	-393.82	-1,362.33	1,415.20	2.38	-2.38	-1.65	182.74
	NORMAL	5,651.0	2.20	254.89	5,443.97	-395.49	-1,367.15	1,420.29	1.88	-1.85	6.57	172.32
2/24/2014	NORMAL	5,745.0	0.97	270.71	5,537.94	-395.95	-1,369.69	1,422.84	1.38	-1.31	16.83	168.21
	NORMAL	5,840.0	1.05	271.50	5,632.92	-395.92	-1,371.36	1,424.40	0.09	0.08	0.83	10.27
	NORMAL	5,936.0	1.01	289.78	5,728.91	-395.61	-1,373.04	1,425.87	0.34	-0.04	19.04	106.02
	NORMAL	6,032.0	1.32	295.58	5,824.89	-394.84	-1,374.83	1,427.30	0.35	0.32	6.04	23.74
	NORMAL	6,127.0	1.63	301.65	5,919.86	-393.66	-1,376.97	1,428.91	0.36	0.33	6.39	29.80
	NORMAL	6,223.0	1.80	328.46	6,015.81	-391.66	-1,378.92	1,430.07	0.85	0.18	27.93	91.65
	NORMAL	6,318.0	2.42	359.22	6,110.75	-388.38	-1,379.73	1,429.72	1.34	0.65	32.38	77.26
	NORMAL	6,413.0	2.37	6.78	6,205.67	-384.43	-1,379.52	1,428.19	0.34	-0.05	7.96	102.76
2/25/2014	NORMAL	6,509.0	2.11	10.20	6,301.60	-380.72	-1,378.97	1,426.41	0.30	-0.27	3.56	154.49
	NORMAL	6,605.0	1.67	6.78	6,397.54	-377.59	-1,378.50	1,424.90	0.47	-0.46	-3.56	192.67
	NORMAL	6,701.0	1.58	357.55	6,493.51	-374.88	-1,378.39	1,423.88	0.29	-0.09	-9.61	246.45
	NORMAL	6,797.0	1.45	348.23	6,589.47	-372.37	-1,378.69	1,423.32	0.29	-0.14	-9.71	237.58
	NORMAL	6,892.0	1.23	340.94	6,684.45	-370.23	-1,379.27	1,423.14	0.29	-0.23	-7.67	214.17
	NORMAL	6,988.0	1.14	342.69	6,780.43	-368.34	-1,379.89	1,423.08	0.10	-0.09	1.82	158.97
	NORMAL	7,083.0	0.97	331.53	6,875.41	-366.73	-1,380.56	1,423.16	0.28	-0.18	-11.75	224.91
	NORMAL	7,178.0	0.83	302.70	6,970.40	-365.65	-1,381.52	1,423.70	0.49	-0.15	-30.35	238.75

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)	Buid Rate (°/100usft)	Turn (°/100usft)	Tface (°)
2/25/2014	NORMAL	7,274.0	0.97	283.89	7,066.39	-365.08	-1,382.89	1,424.80	0.34	0.15	-19.59	285.75
	NORMAL	7,370.0	1.23	270.27	7,162.37	-364.88	-1,384.71	1,426.45	0.38	0.27	-14.19	307.89
	NORMAL	7,465.0	0.75	127.89	7,257.36	-365.26	-1,385.24	1,427.07	1.98	-0.51	-149.87	194.09
	NORMAL	7,561.0	0.70	129.47	7,353.35	-366.02	-1,384.29	1,426.44	0.06	-0.05	1.65	158.99
2/26/2014	NORMAL	7,656.0	0.79	143.18	7,448.35	-366.91	-1,383.45	1,425.95	0.21	0.09	14.43	70.18
	NORMAL	7,752.0	0.53	152.41	7,544.34	-367.83	-1,382.85	1,425.70	0.29	-0.27	9.61	162.33
	NORMAL	7,847.0	0.53	158.74	7,639.34	-368.63	-1,382.49	1,425.62	0.06	0.00	6.66	93.16
	NORMAL	7,942.0	0.97	196.18	7,734.33	-369.81	-1,382.55	1,426.09	0.67	0.46	39.41	67.84
	NORMAL	8,037.0	1.10	206.38	7,829.31	-371.40	-1,383.18	1,427.22	0.24	0.14	10.74	59.96
	NORMAL	8,132.0	1.36	211.30	7,924.29	-373.18	-1,384.17	1,428.75	0.30	0.27	5.18	24.58
	NORMAL	8,227.0	1.71	224.48	8,019.26	-375.16	-1,385.75	1,430.91	0.52	0.37	13.87	51.96
	NORMAL	8,321.0	1.98	219.65	8,113.21	-377.41	-1,387.77	1,433.57	0.33	0.29	-5.14	327.63
	NORMAL	8,417.0	2.07	215.78	8,209.15	-380.09	-1,389.84	1,436.43	0.17	0.09	-4.03	301.41
	NORMAL	8,512.0	2.46	218.68	8,304.07	-383.08	-1,392.12	1,439.58	0.43	0.41	3.05	17.83
	NORMAL	8,607.0	2.55	220.00	8,398.98	-386.29	-1,394.75	1,443.14	0.11	0.09	1.39	33.32
	NORMAL	8,711.0	2.55	222.02	8,502.88	-389.78	-1,397.79	1,447.18	0.09	0.00	1.94	91.01
	NORMAL	8,761.0	2.55	222.02	8,552.83	-391.43	-1,399.28	1,449.14	0.00	0.00	0.00	0.00

3 Charts

3.1 Vertical Section View



3.2 Plan View

