

1 General

1.1 Customer Information

Company	PICEANCE VLY
Representative	
Address	

1.2 Well Information

Well	RWF 34-27	Wellbore No.	OH
Well Name	RWF 34-27	Common Name	RWF 34-27
Project	RU 27-06S-094W	Site	RMV 28-27 Pad
Vertical Section	355.75 (°)	North Reference	True
Azimuth			
Origin N/S		Origin E/W	
Spud Date	8/16/2012	UWI	RWF 34-27
Active Datum	KB @5,323.0ft (above Mean Sea Level)		

2 Survey Name

2.1 Survey Name: Survey #1

Survey Name	Survey #1	Company	mostar
Date Started	8/16/2012	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)	Buidl Rate (°/100ft)	Turn (°/100ft)	TFace (°)
8/16/2012	Tie On	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NORMAL	7,588.0	1.58	251.67	7,580.51	225.85	-30.05	227.46	0.34	0.29	-6.93	326.08
8/16/2012	NORMAL	102.0	1.67	357.45	101.99	1.48	-0.07	1.49	1.64	1.64	0.00	357.45
	NORMAL	162.0	2.55	359.48	161.94	3.69	-0.12	3.69	1.47	1.47	3.38	5.87
	NORMAL	254.0	3.78	353.76	253.80	8.75	-0.47	8.76	1.38	1.34	-6.22	342.73
	NORMAL	329.0	4.40	353.98	328.61	14.07	-1.04	14.11	0.83	0.83	0.29	1.56
	NORMAL	419.0	3.69	6.63	418.39	20.38	-1.06	20.41	1.26	-0.79	14.06	134.70
	NORMAL	510.0	3.08	18.76	509.23	25.61	0.06	25.53	1.03	-0.67	13.33	136.37
	NORMAL	602.0	1.14	1.98	601.16	28.86	0.89	28.72	2.19	-2.11	-18.24	189.40
	NORMAL	693.0	1.89	315.83	692.13	30.84	-0.13	30.77	1.51	0.82	-50.71	277.09
	NORMAL	783.0	3.34	319.70	782.04	33.91	-2.86	34.03	1.62	1.61	4.30	8.88
	NORMAL	874.0	4.04	325.24	872.85	38.56	-6.40	38.93	0.86	0.77	6.09	29.77
	NORMAL	965.0	4.92	338.33	963.57	44.82	-9.67	45.42	1.48	0.97	14.38	55.93
	NORMAL	1,061.0	5.85	348.97	1,059.15	53.45	-12.12	54.20	1.42	0.97	11.08	52.41
8/17/2012	NORMAL	1,174.0	6.50	348.97	1,171.49	65.38	-14.45	66.27	0.58	0.58	0.00	0.00
	NORMAL	1,270.0	4.66	354.24	1,267.04	74.60	-15.88	75.57	1.99	-1.92	5.49	167.05
	NORMAL	1,365.0	3.47	359.43	1,361.80	81.31	-16.30	82.29	1.31	-1.25	5.46	165.40
	NORMAL	1,461.0	3.38	356.70	1,457.62	87.04	-16.49	88.02	0.19	-0.09	-2.84	239.75
	NORMAL	1,557.0	3.25	355.30	1,553.46	92.58	-16.87	93.57	0.16	-0.14	-1.46	211.21
	NORMAL	1,652.0	3.12	11.82	1,648.32	97.79	-16.57	98.75	0.97	-0.14	17.39	106.25
	NORMAL	1,748.0	3.17	12.79	1,744.17	102.94	-15.44	103.80	0.08	0.05	1.01	47.27

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 (°)
8/17/2012	NORMAL	1,843.0	3.08	352.92	1,839.04	108.03	-15.18	108.86	1.14	-0.09	-20.92	255.38
8/18/2012	NORMAL	1,938.0	2.86	355.03	1,933.91	112.93	-15.70	113.78	0.26	-0.23	2.22	154.63
	NORMAL	2,034.0	2.99	351.87	2,029.78	117.79	-16.26	118.67	0.22	0.14	-3.29	307.29
	NORMAL	2,129.0	2.59	7.25	2,124.67	122.37	-16.34	123.25	0.89	-0.42	16.19	125.65
	NORMAL	2,225.0	2.64	4.17	2,220.57	126.73	-15.90	127.56	0.16	0.05	-3.21	288.04
	NORMAL	2,321.0	2.24	3.82	2,316.48	130.81	-15.62	131.60	0.42	-0.42	-0.36	181.96
	NORMAL	2,416.0	2.94	7.25	2,411.39	135.08	-15.19	135.83	0.75	0.74	3.61	14.20
	NORMAL	2,510.0	3.08	5.23	2,505.26	139.98	-14.65	140.68	0.19	0.15	-2.15	321.84
	NORMAL	2,606.0	3.03	359.08	2,601.12	145.09	-14.46	145.76	0.35	-0.05	-6.41	258.26
	NORMAL	2,702.0	2.94	1.54	2,696.99	150.09	-14.43	150.74	0.16	-0.09	2.56	126.31
	NORMAL	2,797.0	2.90	1.89	2,791.87	154.92	-14.29	155.56	0.05	-0.04	0.37	156.15
	NORMAL	2,893.0	2.99	4.79	2,887.74	159.85	-14.00	160.44	0.18	0.09	3.02	60.32
	NORMAL	2,988.0	2.94	5.14	2,982.61	164.74	-13.57	165.29	0.06	-0.05	0.37	160.27
	NORMAL	3,084.0	3.17	1.71	3,078.48	169.85	-13.27	170.36	0.31	0.24	-3.57	319.80
	NORMAL	3,180.0	3.47	351.08	3,174.32	175.37	-13.64	175.90	0.71	0.31	-11.07	290.61
	NORMAL	3,276.0	3.34	355.21	3,270.15	181.03	-14.33	181.59	0.29	-0.14	4.30	119.97
	NORMAL	3,371.0	3.38	357.23	3,364.98	186.58	-14.69	187.16	0.13	0.04	2.13	72.34
	NORMAL	3,466.0	3.30	359.60	3,459.82	192.11	-14.85	192.68	0.17	-0.08	2.49	121.27
	NORMAL	3,562.0	3.34	0.92	3,555.66	197.67	-14.82	198.23	0.09	0.04	1.38	63.04
	NORMAL	3,657.0	3.38	359.16	3,650.50	203.24	-14.82	203.78	0.12	0.04	-1.85	290.32
	NORMAL	3,753.0	3.21	357.58	3,746.34	208.75	-14.97	209.29	0.20	-0.18	-1.65	207.32
	NORMAL	3,848.0	3.12	0.92	3,841.20	214.00	-15.05	214.52	0.22	-0.09	3.52	117.68
	NORMAL	3,944.0	2.94	358.81	3,937.06	219.07	-15.05	219.58	0.22	-0.19	-2.20	210.73
	NORMAL	4,039.0	2.94	355.56	4,031.94	223.93	-15.29	224.45	0.18	0.00	-3.42	268.38
	NORMAL	4,135.0	1.71	352.13	4,127.86	227.81	-15.68	228.34	1.29	-1.28	-3.57	184.74
	NORMAL	4,231.0	0.92	344.22	4,223.83	229.97	-16.09	230.53	0.84	-0.82	-8.24	189.01
8/19/2012	NORMAL	4,326.0	0.75	5.32	4,318.82	231.32	-16.24	231.89	0.37	-0.18	22.21	129.21
	NORMAL	4,422.0	0.83	16.04	4,414.81	232.62	-15.99	233.16	0.17	0.08	11.17	67.00
	NORMAL	4,516.0	1.01	25.97	4,508.80	234.02	-15.43	234.52	0.26	0.19	10.56	46.57
	NORMAL	4,612.0	0.66	23.86	4,604.79	235.28	-14.84	235.73	0.37	-0.36	-2.20	183.97
	NORMAL	4,707.0	0.56	156.58	4,699.79	235.36	-14.43	235.78	1.18	-0.11	139.71	158.41
	NORMAL	4,803.0	0.70	157.10	4,795.78	234.39	-14.02	234.78	0.15	0.15	0.54	2.60
	NORMAL	4,899.0	0.75	138.38	4,891.77	233.38	-13.37	233.72	0.25	0.05	-19.50	272.46
8/20/2012	NORMAL	4,994.0	0.88	140.49	4,986.76	232.35	-12.50	232.63	0.14	0.14	2.22	14.06
	NORMAL	5,090.0	0.26	310.03	5,082.76	231.92	-12.20	232.18	1.18	-0.65	176.60	177.62
	NORMAL	5,185.0	0.04	268.81	5,177.76	232.06	-12.39	232.34	0.24	-0.23	-43.39	186.54
	NORMAL	5,281.0	0.13	98.04	5,273.76	232.04	-12.32	232.32	0.18	0.09	-177.89	187.06
	NORMAL	5,376.0	0.22	120.10	5,368.76	231.93	-12.05	232.19	0.12	0.09	23.22	48.19
	NORMAL	5,472.0	0.40	154.55	5,464.76	231.54	-11.75	231.77	0.26	0.19	35.89	64.10
	NORMAL	5,567.0	0.53	170.55	5,559.75	230.81	-11.54	231.03	0.19	0.14	16.84	53.15
	NORMAL	5,663.0	0.75	183.73	5,655.75	229.74	-11.50	229.96	0.27	0.23	13.73	40.50
	NORMAL	5,759.0	0.40	283.75	5,751.74	229.19	-11.87	229.44	0.95	-0.36	104.19	154.33
	NORMAL	5,854.0	0.48	252.11	5,846.74	229.15	-12.57	229.45	0.27	0.08	-33.31	271.97
	NORMAL	5,950.0	0.26	219.42	5,942.74	228.86	-13.09	229.20	0.31	-0.23	-34.05	208.26
	NORMAL	6,045.0	0.26	7.07	6,037.74	228.91	-13.20	229.26	0.53	0.00	155.42	163.82
8/21/2012	NORMAL	6,141.0	0.31	4.44	6,133.74	229.38	-13.16	229.73	0.05	0.05	-2.74	344.02
	NORMAL	6,236.0	0.44	30.89	6,228.74	229.95	-12.95	230.28	0.22	0.14	27.84	66.81
	NORMAL	6,332.0	0.40	30.37	6,324.73	230.56	-12.59	230.86	0.04	-0.04	-0.54	185.18
	NORMAL	6,428.0	0.18	184.53	6,420.73	230.69	-12.43	230.98	0.59	-0.23	160.58	172.05
	NORMAL	6,523.0	0.48	193.31	6,515.73	230.16	-12.54	230.46	0.32	0.32	9.24	13.98
	NORMAL	6,619.0	0.79	169.85	6,611.73	229.12	-12.51	229.41	0.42	0.32	-24.44	307.89
	NORMAL	6,714.0	0.83	205.36	6,706.72	227.85	-12.69	228.16	0.52	0.04	37.38	103.34
8/22/2012	NORMAL	6,809.0	0.44	251.32	6,801.71	227.11	-13.33	227.47	0.64	-0.41	48.38	148.89
	NORMAL	6,905.0	1.01	249.83	6,897.70	226.70	-14.47	227.15	0.59	0.59	-1.55	357.36
	NORMAL	7,001.0	0.66	236.29	6,993.69	226.10	-15.73	226.65	0.42	-0.36	-14.10	202.76
	NORMAL	7,096.0	1.14	278.22	7,088.68	225.93	-17.12	226.58	0.83	0.51	44.14	76.13
	NORMAL	7,192.0	1.58	275.05	7,184.65	226.19	-19.38	227.00	0.46	0.46	-3.30	348.71

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 (°)
8/22/2012	NORMAL	7,287.0	1.67	277.69	7,279.62	226.49	-22.06	227.50	0.12	0.09	2.78	41.08
	NORMAL	7,383.0	1.50	278.39	7,375.58	226.86	-24.69	228.06	0.18	-0.18	0.73	173.85
	NORMAL	7,478.0	1.58	254.84	7,470.55	226.70	-27.18	228.09	0.67	0.08	-24.79	265.33
8/24/2012	NORMAL	7,574.0	1.54	252.64	7,566.51	225.97	-29.69	227.55	0.08	-0.04	-2.29	235.17
8/24/2012	NORMAL	7,633.0	1.58	251.67	7,625.49	225.46	-31.23	227.15	0.00	0.00	0.00	0.00