

1 General

1.1 Customer Information

Company	PICEANCE VLY
Representative	
Address	

1.2 Well Information

Well	RMV 71-34	Wellbore No.	
Well Name	RMV 71-34	Common Name	RMV 71-34
Project	RU 27-06S-094W	Site	RMV 28-27 Pad
Vertical Section Azimuth	231.86 (°)	North Reference	True
Origin N/S		Origin E/W	
Spud Date	5/30/2012	UWI	RMV 71-34
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	5/30/2012	Ended	6/6/2012
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

5652

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 (°)
5/30/2012	Tie On	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/30/2012	NORMAL	147.0	2.29	248.36	146.96	-1.08	-2.73	2.82	1.56	1.56	0.00	248.36
	NORMAL	239.0	3.96	242.74	238.82	-3.22	-7.26	7.70	1.84	1.82	-6.11	346.79
	NORMAL	330.0	6.07	235.53	329.47	-7.38	-14.02	15.59	2.42	2.32	-7.92	339.76
	NORMAL	420.0	9.14	230.79	418.67	-14.59	-23.49	27.49	3.48	3.41	-5.27	346.09
	NORMAL	511.0	12.31	231.84	508.07	-25.16	-36.72	44.42	3.49	3.48	1.15	4.04
	NORMAL	603.0	16.53	230.61	597.15	-39.53	-54.55	67.32	4.60	4.59	-1.34	355.25
	NORMAL	693.0	20.05	231.49	682.59	-57.27	-76.53	95.56	3.92	3.91	0.98	4.90
	NORMAL	784.0	21.81	230.26	767.58	-77.79	-101.73	128.06	1.99	1.93	-1.35	345.41
	NORMAL	875.0	23.04	229.38	851.70	-100.19	-128.25	162.75	1.40	1.35	-0.97	344.33
	NORMAL	966.0	24.71	230.08	934.91	-123.99	-156.36	199.55	1.86	1.84	0.77	9.95
	NORMAL	1,062.0	23.65	230.79	1,022.48	-149.04	-186.67	238.86	1.14	-1.10	0.74	164.98
	NORMAL	1,145.0	23.30	232.02	1,098.61	-169.67	-212.50	271.92	0.73	-0.42	1.48	126.10
5/31/2012	NORMAL	1,254.0	23.83	230.79	1,198.53	-196.85	-246.56	315.49	0.66	0.49	-1.13	316.58
	NORMAL	1,350.0	24.18	232.37	1,286.22	-221.12	-277.16	354.54	0.76	0.36	1.65	62.15
	NORMAL	1,446.0	24.71	232.19	1,373.62	-245.42	-308.58	394.27	0.56	0.55	-0.19	351.92
	NORMAL	1,541.0	24.80	231.14	1,459.89	-270.09	-339.78	434.05	0.47	0.09	-1.11	281.09
	NORMAL	1,637.0	23.65	232.90	1,547.43	-294.34	-370.82	473.43	1.41	-1.20	1.83	148.67
	NORMAL	1,733.0	23.83	233.07	1,635.31	-317.61	-401.68	512.07	0.20	0.19	0.18	20.90
	NORMAL	1,828.0	24.18	232.02	1,722.09	-341.11	-432.36	550.72	0.58	0.37	-1.11	308.85
	NORMAL	1,923.0	22.51	233.77	1,809.32	-363.84	-462.36	588.35	1.90	-1.76	1.84	158.25

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 (°)
5/31/2012	NORMAL	2,019.0	22.51	233.07	1,898.00	-385.74	-491.88	625.09	0.28	0.00	-0.73	269.68
6/1/2012	NORMAL	2,115.0	22.25	232.72	1,986.77	-407.79	-521.03	661.64	0.30	-0.27	-0.36	206.98
	NORMAL	2,210.0	21.98	232.37	2,074.78	-429.54	-549.42	697.40	0.32	-0.28	-0.37	205.85
	NORMAL	2,305.0	23.39	232.54	2,162.43	-451.86	-578.47	734.03	1.49	1.48	0.18	2.74
	NORMAL	2,401.0	24.01	232.02	2,250.33	-475.47	-608.99	772.62	0.68	0.65	-0.54	341.13
	NORMAL	2,497.0	24.71	230.96	2,337.79	-500.13	-639.97	812.21	0.86	0.73	-1.10	327.53
	NORMAL	2,592.0	23.39	232.90	2,424.54	-524.01	-670.43	850.92	1.62	-1.39	2.04	149.96
	NORMAL	2,688.0	23.65	232.19	2,512.56	-547.31	-700.84	889.23	0.40	0.27	-0.74	312.21
	NORMAL	2,783.0	24.01	230.96	2,599.46	-571.17	-730.91	927.61	0.65	0.38	-1.29	305.36
	NORMAL	2,878.0	24.45	230.61	2,686.10	-595.82	-761.12	966.59	0.49	0.46	-0.37	341.76
	NORMAL	2,974.0	23.88	231.84	2,773.68	-620.43	-791.75	1,005.88	0.79	-0.59	1.28	139.10
	NORMAL	3,069.0	24.01	231.14	2,860.51	-644.44	-821.92	1,044.44	0.33	0.14	-0.74	294.27
	NORMAL	3,164.0	24.18	230.61	2,947.23	-668.91	-852.01	1,083.22	0.29	0.18	-0.56	307.91
	NORMAL	3,260.0	23.92	232.90	3,034.90	-693.13	-882.73	1,122.33	1.01	-0.27	2.39	106.61
	NORMAL	3,355.0	23.30	232.90	3,121.95	-716.08	-913.07	1,160.38	0.65	-0.65	0.00	180.00
	NORMAL	3,451.0	23.74	233.07	3,209.97	-739.14	-943.66	1,198.68	0.46	0.46	0.18	8.84
	NORMAL	3,546.0	23.30	231.84	3,297.08	-762.24	-973.72	1,236.59	0.69	-0.46	-1.29	227.56
	NORMAL	3,642.0	23.83	230.79	3,385.07	-786.23	-1,003.68	1,274.96	0.70	0.55	-1.09	321.14
	NORMAL	3,737.0	24.53	230.79	3,471.74	-810.83	-1,033.83	1,313.87	0.74	0.74	0.00	0.00
	NORMAL	3,833.0	22.95	232.02	3,559.61	-834.95	-1,064.02	1,352.51	1.72	-1.65	1.28	163.16
	NORMAL	3,928.0	21.37	231.31	3,647.59	-857.17	-1,092.13	1,388.34	1.69	-1.66	-0.75	189.29
	NORMAL	4,024.0	21.46	230.96	3,736.96	-879.16	-1,119.43	1,423.39	0.16	0.09	-0.36	304.99
	NORMAL	4,120.0	19.61	232.37	3,826.86	-900.06	-1,145.83	1,457.06	1.99	-1.93	1.47	165.69
	NORMAL	4,215.0	18.03	233.25	3,916.78	-918.59	-1,170.23	1,487.70	1.69	-1.66	0.93	170.23
	NORMAL	4,311.0	15.83	232.54	4,008.61	-935.45	-1,192.53	1,515.65	2.30	-2.29	-0.74	185.03
	NORMAL	4,406.0	15.48	231.66	4,100.09	-951.19	-1,212.76	1,541.29	0.45	-0.37	-0.93	213.73
6/2/2012	NORMAL	4,502.0	14.24	234.83	4,192.88	-965.94	-1,232.46	1,565.89	1.54	-1.29	3.30	148.28
	NORMAL	4,597.0	14.07	235.53	4,284.99	-979.21	-1,251.54	1,589.08	0.25	-0.18	0.74	135.14
	NORMAL	4,693.0	12.22	236.06	4,378.47	-991.49	-1,269.59	1,610.86	1.93	-1.93	0.55	176.53
	NORMAL	4,789.0	10.55	232.19	4,472.58	-1,002.55	-1,284.96	1,629.78	1.91	-1.74	-4.03	202.69
	NORMAL	4,884.0	8.53	230.26	4,566.26	-1,012.38	-1,297.25	1,645.53	2.15	-2.13	-2.03	188.05
	NORMAL	4,980.0	7.56	232.02	4,661.32	-1,020.82	-1,307.70	1,658.96	1.04	-1.01	1.83	166.62
	NORMAL	5,075.0	5.98	230.61	4,755.65	-1,027.81	-1,316.45	1,670.16	1.67	-1.66	-1.48	185.31
	NORMAL	5,170.0	5.10	223.90	4,850.21	-1,033.99	-1,323.21	1,679.29	1.15	-0.93	-7.06	213.05
6/3/2012	NORMAL	5,266.0	4.22	234.83	4,945.89	-1,039.10	-1,329.05	1,687.04	1.30	-0.92	11.39	140.10
	NORMAL	5,362.0	2.90	245.02	5,041.71	-1,042.16	-1,334.14	1,692.93	1.52	-1.38	10.61	159.42
	NORMAL	5,457.0	0.53	253.29	5,136.66	-1,043.30	-1,336.74	1,695.68	2.50	-2.49	8.71	178.16
	NORMAL	5,553.0	0.53	171.37	5,232.65	-1,043.87	-1,337.10	1,696.31	0.72	0.00	-85.33	229.04
	NORMAL	5,648.0	1.14	34.61	5,327.65	-1,043.53	-1,336.50	1,695.63	1.65	0.64	-143.96	209.86
	NORMAL	5,744.0	1.76	53.42	5,423.62	-1,041.86	-1,334.77	1,693.24	0.81	0.65	19.59	47.17
	NORMAL	5,840.0	1.50	49.73	5,519.58	-1,040.17	-1,332.63	1,690.51	0.29	-0.27	-3.84	200.15
	NORMAL	5,935.0	1.50	54.30	5,614.55	-1,038.64	-1,330.67	1,688.03	0.13	0.00	4.81	92.28
	NORMAL	6,030.0	1.58	62.03	5,709.51	-1,037.30	-1,328.50	1,685.50	0.23	0.08	8.14	72.83
	NORMAL	6,125.0	1.41	55.36	5,804.48	-1,036.02	-1,326.38	1,683.04	0.26	-0.18	-7.02	222.37
	NORMAL	6,220.0	0.62	230.61	5,899.47	-1,035.68	-1,325.82	1,682.39	2.14	-0.83	184.47	178.55
	NORMAL	6,316.0	0.70	162.41	5,995.47	-1,036.57	-1,326.04	1,683.11	0.77	0.08	-71.04	241.02
	NORMAL	6,411.0	0.79	188.60	6,090.46	-1,037.77	-1,325.97	1,683.79	0.37	0.09	27.57	88.54
	NORMAL	6,506.0	1.23	167.80	6,185.45	-1,039.42	-1,325.85	1,684.72	0.60	0.46	-21.89	309.49
	NORMAL	6,602.0	0.35	77.50	6,281.44	-1,040.36	-1,325.35	1,684.90	1.33	-0.92	-94.06	195.86
	NORMAL	6,697.0	0.26	75.22	6,376.44	-1,040.24	-1,324.85	1,684.44	0.10	-0.09	-2.40	186.54
6/4/2012	NORMAL	6,793.0	0.88	157.31	6,472.43	-1,040.87	-1,324.36	1,684.44	0.92	0.65	85.51	99.05
	NORMAL	6,888.0	1.32	161.53	6,567.41	-1,042.58	-1,323.73	1,685.00	0.47	0.46	4.44	12.55
	NORMAL	6,984.0	0.79	195.81	6,663.40	-1,044.26	-1,323.56	1,685.91	0.84	-0.55	35.71	146.30
	NORMAL	7,081.0	0.44	186.49	6,760.39	-1,045.28	-1,323.79	1,686.71	0.37	-0.36	-9.61	191.32
	NORMAL	7,176.0	0.88	191.41	6,855.39	-1,046.36	-1,323.97	1,687.52	0.47	0.46	5.18	9.80
	NORMAL	7,272.0	1.23	160.30	6,951.37	-1,048.05	-1,323.77	1,688.41	0.69	0.36	-32.41	285.24
	NORMAL	7,367.0	1.58	211.45	7,046.34	-1,050.13	-1,324.11	1,689.96	1.32	0.37	53.84	100.98

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 (°)
6/4/2012	NORMAL	7,463.0	1.50	207.76	7,142.31	-1,052.37	-1,325.38	1,692.35	0.13	-0.08	-3.84	229.27
	NORMAL	7,558.0	1.67	228.15	7,237.27	-1,054.39	-1,327.00	1,694.86	0.62	0.18	21.46	83.58
	NORMAL	7,653.0	1.76	245.20	7,332.23	-1,055.93	-1,329.35	1,697.66	0.54	0.09	17.95	88.59
	NORMAL	7,748.0	2.37	246.08	7,427.17	-1,057.33	-1,332.47	1,700.99	0.64	0.64	0.93	3.42
	NORMAL	7,804.0	2.37	247.09	7,483.12	-1,058.25	-1,334.60	1,703.23	0.07	0.00	1.80	90.50
	NORMAL	7,849.0	2.37	247.09	7,528.08	-1,058.98	-1,336.31	1,705.02	0.00	0.00	0.00	0.00