

## 1 General

### 1.1 Customer Information

Company	PICEANCE VLY
Representative	
Address	

### 1.2 Well Information

Well	RMV 80-34	Wellbore No.	OH
Well Name	RMV 80-34	Common Name	RMV 80-34
Project	RU 27-06S-094W	Site	RMV 28-27 Pad
Vertical Section	123.87 (°)	North Reference	True
Azimuth			
Origin N/S		Origin E/W	
Spud Date	9/10/2012	UWI	RMV 80-34
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	9/2/2012	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)	Build Rate (°/100ft)	Turn (°/100ft)	TFace (°)
9/2/2012	Tie On	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/11/2012	NORMAL	72.0	0.18	94.22	72.00	-0.01	0.11	0.10	0.25	0.25	0.00	94.22
	NORMAL	162.0	1.06	117.86	161.99	-0.41	0.99	1.05	1.00	0.98	26.27	28.25
	NORMAL	254.0	1.67	144.58	253.97	-1.90	2.52	3.15	0.94	0.66	29.04	60.10
	NORMAL	344.0	4.49	145.72	343.83	-5.88	5.26	7.65	3.13	3.13	1.27	1.81
	NORMAL	435.0	6.60	136.76	434.40	-12.63	10.85	16.05	2.50	2.32	-9.85	333.19
	NORMAL	506.0	8.81	128.83	504.76	-19.01	17.89	25.45	3.45	3.11	-11.17	330.34
	NORMAL	597.0	11.43	121.41	594.34	-28.09	31.01	41.40	3.21	2.88	-8.15	329.86
	NORMAL	658.0	13.28	122.29	653.94	-34.89	42.46	54.45	3.79	3.53	6.17	21.97
	NORMAL	693.0	13.89	123.78	688.00	-39.45	48.71	62.92	2.62	2.56	2.47	13.08
9/12/2012	NORMAL	693.0	13.89	123.78	687.96	-39.37	49.35	62.92	2.01	1.74	4.26	30.57
	NORMAL	783.0	17.54	125.63	774.62	-53.36	68.72	86.80	4.09	4.06	2.06	8.71
	NORMAL	783.0	17.54	125.63	774.58	-53.28	69.36	86.80	4.09	4.06	2.06	8.71
	NORMAL	874.0	20.61	122.11	860.57	-69.79	94.08	117.01	3.60	3.37	-3.87	337.79
	NORMAL	874.0	20.61	122.11	860.61	-69.87	93.44	117.01	3.60	3.37	-3.87	337.79
	NORMAL	965.0	25.14	120.62	944.40	-88.16	124.29	151.85	5.02	4.98	-1.64	352.02
	NORMAL	965.0	25.14	120.62	944.44	-88.24	123.65	152.33	5.02	4.98	-1.64	352.02
	NORMAL	1,061.0	24.92	119.74	1,031.42	-108.66	158.76	192.38	0.45	-0.23	-0.92	239.02
	NORMAL	1,061.0	24.92	119.74	1,031.38	-108.58	159.40	192.38	0.45	-0.23	-0.92	239.02
	NORMAL	1,130.0	24.35	120.09	1,094.10	-122.92	184.33	221.56	0.85	-0.83	0.51	165.80
	NORMAL	1,130.0	24.35	120.09	1,094.14	-123.00	183.69	221.56	0.85	-0.83	0.51	165.80

## 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 (°)
9/13/2012	NORMAL	1,257.0	24.88	121.85	1,209.60	-150.22	229.04	273.90	0.71	0.42	1.39	54.94
	NORMAL	1,352.0	24.92	123.78	1,295.77	-171.90	262.65	313.88	0.86	0.04	2.03	88.06
	NORMAL	1,448.0	23.74	124.57	1,383.24	-194.11	295.38	353.43	1.28	-1.23	0.82	164.94
	NORMAL	1,544.0	22.46	121.67	1,471.55	-214.70	326.90	391.08	1.78	-1.33	-3.02	220.31
	NORMAL	1,640.0	20.84	123.61	1,560.77	-233.79	356.73	426.49	1.84	-1.69	2.02	157.06
	NORMAL	1,735.0	19.91	125.28	1,649.83	-252.48	384.01	459.56	1.15	-0.98	1.76	148.77
	NORMAL	1,830.0	19.69	124.31	1,739.21	-270.85	410.43	491.73	0.42	-0.23	-1.02	235.74
	NORMAL	1,926.0	19.34	125.28	1,829.70	-289.14	436.77	523.79	0.50	-0.36	1.01	137.66
	NORMAL	2,021.0	19.16	123.52	1,919.39	-306.84	462.61	555.11	0.64	-0.19	-1.85	251.94
	NORMAL	2,116.0	18.99	120.71	2,009.17	-323.34	488.90	586.13	0.98	-0.18	-2.96	258.19
	NORMAL	2,212.0	20.35	123.61	2,099.57	-340.56	516.23	618.42	1.74	1.42	3.02	37.04
	NORMAL	2,308.0	20.26	122.55	2,189.61	-358.74	544.14	651.73	0.39	-0.09	-1.10	255.75
	NORMAL	2,404.0	20.61	123.34	2,279.56	-376.97	572.27	685.25	0.46	0.36	0.82	38.61
	NORMAL	2,498.0	21.93	124.13	2,367.16	-395.91	600.62	719.34	1.44	1.40	0.84	12.62
	NORMAL	2,593.0	21.93	122.99	2,455.29	-415.53	630.18	754.82	0.45	0.00	-1.20	269.47
	NORMAL	2,689.0	22.11	124.93	2,544.28	-435.63	660.03	790.81	0.78	0.19	2.02	77.00
	NORMAL	2,785.0	22.59	124.84	2,633.07	-456.51	689.98	827.31	0.50	0.50	-0.09	355.88
	NORMAL	2,880.0	22.11	125.72	2,720.94	-477.37	719.47	863.42	0.62	-0.51	0.93	145.52
	NORMAL	2,976.0	20.48	126.60	2,810.38	-497.93	747.62	898.26	1.73	-1.70	0.92	169.32
	NORMAL	3,071.0	20.75	125.36	2,899.30	-517.58	774.69	931.68	0.54	0.28	-1.31	301.15
	NORMAL	3,167.0	20.09	125.54	2,989.26	-537.01	801.97	965.16	0.69	-0.69	0.19	174.65
	NORMAL	3,263.0	19.65	124.75	3,079.55	-555.79	828.65	997.78	0.54	-0.46	-0.82	211.02
	NORMAL	3,358.0	19.47	125.19	3,169.07	-574.02	854.72	1,029.58	0.24	-0.19	0.46	140.91
	NORMAL	3,454.0	19.25	125.80	3,259.64	-592.50	880.63	1,061.39	0.31	-0.23	0.64	137.70
	NORMAL	3,549.0	19.43	123.08	3,349.28	-610.28	906.57	1,092.84	0.97	0.19	-2.86	280.01
	NORMAL	3,645.0	19.60	121.94	3,439.76	-627.52	933.61	1,124.90	0.43	0.18	-1.19	293.52
	NORMAL	3,741.0	19.56	122.64	3,530.21	-644.70	960.81	1,157.06	0.25	-0.04	0.73	100.01
	NORMAL	3,836.0	19.43	123.17	3,619.77	-661.93	987.42	1,188.76	0.23	-0.14	0.56	126.56
	NORMAL	3,931.0	18.81	120.88	3,709.53	-678.43	1,013.80	1,219.86	1.02	-0.65	-2.41	229.35
	NORMAL	4,027.0	18.73	123.08	3,800.42	-694.79	1,039.99	1,250.72	0.74	-0.08	2.29	97.49
9/14/2012	NORMAL	4,123.0	19.30	122.82	3,891.18	-711.80	1,066.24	1,282.00	0.60	0.59	-0.27	351.42
	NORMAL	4,218.0	19.39	124.05	3,980.82	-729.14	1,092.50	1,313.47	0.44	0.09	1.29	78.12
	NORMAL	4,314.0	17.93	119.83	4,071.78	-745.41	1,118.53	1,344.14	2.07	-1.52	-4.40	220.78
	NORMAL	4,409.0	16.40	122.73	4,162.54	-759.94	1,142.50	1,372.14	1.84	-1.61	3.05	152.16
	NORMAL	4,504.0	14.95	124.22	4,254.01	-774.08	1,163.91	1,397.81	1.58	-1.53	1.57	165.20
	NORMAL	4,600.0	12.92	122.90	4,347.18	-786.88	1,183.16	1,420.92	2.14	-2.11	-1.38	188.26
	NORMAL	4,695.0	11.65	123.70	4,440.00	-797.97	1,200.06	1,441.13	1.35	-1.34	0.84	172.76
	NORMAL	4,790.0	9.54	125.45	4,533.38	-807.86	1,214.46	1,458.60	2.25	-2.22	1.84	172.19
	NORMAL	4,886.0	7.30	125.19	4,628.34	-815.99	1,225.92	1,472.65	2.33	-2.33	-0.27	180.85
	NORMAL	4,981.0	5.36	120.88	4,722.75	-821.74	1,234.66	1,483.11	2.10	-2.04	-4.54	191.63
	NORMAL	5,076.0	3.69	118.16	4,817.45	-825.46	1,241.17	1,490.59	1.77	-1.76	-2.86	185.97
	NORMAL	5,172.0	3.21	117.10	4,913.28	-828.15	1,246.28	1,496.33	0.50	-0.50	-1.10	187.04
	NORMAL	5,267.0	1.23	151.20	5,008.21	-830.25	1,249.14	1,499.88	2.42	-2.08	35.89	162.53
	NORMAL	5,363.0	0.79	218.79	5,104.19	-831.67	1,249.23	1,500.74	1.23	-0.46	70.41	141.82
	NORMAL	5,459.0	0.88	230.22	5,200.18	-832.66	1,248.24	1,500.47	0.20	0.09	11.91	67.41
9/15/2012	NORMAL	5,554.0	0.31	92.23	5,295.18	-833.14	1,247.94	1,500.49	1.19	-0.60	-145.25	190.58
	NORMAL	5,650.0	0.18	12.07	5,391.18	-833.00	1,248.23	1,500.65	0.34	-0.14	-83.50	212.42
	NORMAL	5,746.0	0.22	250.61	5,487.18	-832.91	1,248.09	1,500.48	0.36	0.04	-126.52	212.48
	NORMAL	5,841.0	0.70	277.24	5,582.18	-832.90	1,247.34	1,499.86	0.54	0.51	28.03	37.71
	NORMAL	5,937.0	0.92	241.73	5,678.17	-833.19	1,246.08	1,498.97	0.56	0.23	-36.99	275.23
9/16/2012	NORMAL	6,032.0	0.61	237.60	5,773.16	-833.82	1,244.98	1,498.41	0.33	-0.33	-4.35	188.03
	NORMAL	6,128.0	1.41	356.96	5,869.15	-832.92	1,244.49	1,497.50	1.86	0.83	124.33	136.64
	NORMAL	6,223.0	1.45	12.34	5,964.12	-830.58	1,244.68	1,496.35	0.40	0.04	16.19	91.77
	NORMAL	6,319.0	1.01	30.88	6,060.10	-828.66	1,245.38	1,495.86	0.61	-0.46	19.31	146.89
	NORMAL	6,415.0	1.14	28.42	6,156.08	-827.10	1,246.27	1,495.73	0.14	0.14	-2.56	339.22
	NORMAL	6,510.0	1.14	42.13	6,251.06	-825.56	1,247.35	1,495.78	0.29	0.00	14.43	96.85
9/17/2012	NORMAL	6,606.0	1.19	50.66	6,347.04	-824.22	1,248.76	1,496.20	0.19	0.05	8.89	78.21

## 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 (°)
9/17/2012	NORMAL	6,700.0	0.75	103.92	6,441.03	-823.75	1,250.11	1,497.06	1.02	-0.47	56.66	140.97
	NORMAL	6,796.0	0.53	199.37	6,537.03	-824.32	1,250.58	1,497.76	1.00	-0.23	99.43	146.60
	NORMAL	6,892.0	1.76	201.21	6,633.01	-826.12	1,249.90	1,498.20	1.28	1.28	1.92	2.63
	NORMAL	6,988.0	1.98	212.46	6,728.95	-828.89	1,248.47	1,498.56	0.44	0.23	11.72	64.77
	NORMAL	7,083.0	1.67	224.68	6,823.91	-831.26	1,246.62	1,498.34	0.52	-0.33	12.86	134.54
	NORMAL	7,179.0	1.50	225.56	6,919.87	-833.13	1,244.74	1,497.82	0.18	-0.18	0.92	172.29
	NORMAL	7,274.0	1.10	208.25	7,014.85	-834.81	1,243.42	1,497.66	0.59	-0.42	-18.22	216.04
9/18/2012	NORMAL	7,369.0	1.45	205.43	7,109.82	-836.70	1,242.47	1,497.93	0.37	0.37	-2.97	348.42
	NORMAL	7,465.0	1.10	208.86	7,205.80	-838.60	1,241.50	1,498.19	0.37	-0.36	3.57	169.41
	NORMAL	7,561.0	1.14	247.88	7,301.78	-839.77	1,240.17	1,497.73	0.78	0.04	40.65	106.62
	NORMAL	7,656.0	2.11	228.37	7,396.74	-841.29	1,237.99	1,496.77	1.16	1.02	-20.54	320.31
	NORMAL	7,750.0	2.55	239.89	7,490.66	-843.48	1,234.89	1,495.42	0.68	0.47	12.26	52.64
	NORMAL	7,802.0	2.50	242.17	7,542.61	-844.59	1,232.89	1,494.37	0.22	-0.10	4.38	117.60
	NORMAL	7,847.0	2.50	242.17	7,587.57	-845.51	1,231.15	1,493.44	0.00	0.00	0.00	0.00