

Deviation Summary

PICEANCE VLY

1 General

1.1 Customer Information

Company	PICEANCE VLY
Representative	
Address	

1.2 Well/Wellbore Information

Well	SG 333-28	Wellbore No.	OH
Wellbore Legal Name	SG 333-28	Common Wellbore Name	SG 333-28
Project	SG 28-07S-096W	Site	SG 43-28 Pad
Vertical Section Azimuth	260.94 (°)	North reference	
Origin N/S		Origin E/W	
Spud date	9/6/2014	UWI	SG 333-28
Active datum	KB @5,143.0ft (above Mean Sea Level)		

2 Survey Name

2.1 Survey Name: Survey #1

Survey Name	Survey #1	Company	MOSTAR
Date Started	9/6/2014	Ended	9/11/2014
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 (°/100usft)	Buld Rate (°/100usft)	Turn (°/100usft)	Tface (°)
9/6/2014	Tie On	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/6/2014	NORMAL	195.0	3.47	273.65	194.88	0.24	-5.80	5.69	1.99	1.97	5.10	8.93
	NORMAL	225.0	3.87	276.55	224.82	0.41	-7.71	7.55	1.47	1.33	9.67	26.35
	NORMAL	255.0	5.05	274.71	254.73	0.63	-10.03	9.81	3.96	3.93	-6.13	352.17
	NORMAL	285.0	6.33	272.77	284.58	0.82	-13.00	12.71	4.31	4.27	-6.47	350.49
	NORMAL	315.0	7.30	269.96	314.37	0.90	-16.56	16.21	3.42	3.23	-9.37	339.63
	NORMAL	346.0	8.84	263.19	345.06	0.62	-20.89	20.54	5.83	4.97	-21.84	324.94
	NORMAL	376.0	10.51	257.48	374.64	-0.25	-25.85	25.57	6.41	5.57	-19.03	327.28
	NORMAL	407.0	11.69	256.51	405.06	-1.60	-31.67	31.52	3.85	3.81	-3.13	350.53
	NORMAL	436.0	12.31	255.63	433.42	-3.05	-37.52	37.53	2.23	2.14	-3.03	343.13
	NORMAL	466.0	13.01	255.72	462.69	-4.68	-43.89	44.08	2.33	2.33	0.30	1.66
	NORMAL	496.0	13.71	257.04	491.88	-6.31	-50.63	50.99	2.55	2.33	4.40	24.19
	NORMAL	587.0	16.84	265.30	579.67	-9.81	-74.28	74.90	4.18	3.44	9.08	38.84
	NORMAL	677.0	21.06	268.82	664.77	-11.21	-103.46	103.93	4.86	4.69	3.91	16.83
	NORMAL	768.0	25.06	264.42	748.49	-13.42	-139.00	139.38	4.78	4.40	-4.84	334.65
	NORMAL	860.0	27.43	256.51	831.02	-20.26	-179.02	179.97	4.59	2.58	-8.60	300.53
	NORMAL	951.0	28.04	255.90	911.57	-30.36	-220.14	222.18	0.74	0.67	-0.67	334.77
	NORMAL	1,046.0	31.47	257.48	994.03	-41.18	-266.02	269.19	3.70	3.61	1.66	13.57
	NORMAL	1,140.0	34.68	258.54	1,072.79	-51.81	-316.20	320.41	3.47	3.41	1.13	10.66
	NORMAL	1,234.0	38.46	259.77	1,148.27	-62.32	-371.20	376.38	4.10	4.02	1.31	11.47
	NORMAL	1,328.0	41.01	260.64	1,220.55	-72.53	-430.40	436.46	2.78	2.71	0.93	12.64

2.1.2 Survey Stations (Continued)

Date	Type	MD (ft)	Inc. (")	Azl. (")	TVD (ft)	N/S (ft)	E/W (ft)	V. sec. (ft)	DLS ("/100usft)	Build Rate ("/100usft)	Turn ("/100usft)	Tface (")
9/6/2014	NORMAL	1,423.0	43.82	262.23	1,290.69	-82.05	-493.76	500.52	3.17	2.96	1.67	21.48
	NORMAL	1,440.0	44.26	262.23	1,302.91	-83.65	-505.47	512.34	2.59	2.59	0.00	0.00
9/6/2014	NORMAL	164.0	2.86	272.07	163.93	0.15	-4.09	4.02	1.74	1.74	0.00	272.07
9/8/2014	NORMAL	1,532.0	44.70	261.17	1,368.55	-92.96	-569.25	576.79	0.94	0.48	-1.15	300.26
	NORMAL	1,626.0	45.32	261.08	1,435.01	-103.21	-634.94	643.27	0.66	0.66	-0.10	354.11
	NORMAL	1,721.0	45.67	260.91	1,501.60	-113.82	-701.85	711.02	0.39	0.37	-0.18	340.83
	NORMAL	1,815.0	46.20	260.64	1,566.97	-124.65	-768.52	778.56	0.60	0.56	-0.29	339.80
	NORMAL	1,909.0	45.32	259.85	1,632.55	-136.05	-834.89	845.90	1.11	-0.94	-0.84	212.47
	NORMAL	2,003.0	43.56	260.56	1,699.66	-147.26	-899.74	911.71	1.95	-1.87	0.76	164.48
	NORMAL	2,098.0	42.15	262.40	1,769.31	-156.84	-963.64	976.31	1.98	-1.48	1.94	139.08
	NORMAL	2,192.0	40.26	261.88	1,840.03	-165.30	-1,024.97	1,038.22	2.04	-2.01	-0.55	190.08
	NORMAL	2,286.0	38.55	262.84	1,912.66	-173.24	-1,084.11	1,097.87	1.93	-1.82	1.02	160.75
	NORMAL	2,380.0	36.31	263.02	1,987.30	-180.28	-1,140.80	1,154.96	2.39	-2.38	0.19	177.28
	NORMAL	2,475.0	33.80	263.11	2,065.06	-186.87	-1,194.96	1,209.48	2.64	-2.64	0.09	178.86
	NORMAL	2,569.0	32.04	262.75	2,143.96	-193.15	-1,245.66	1,260.54	1.88	-1.87	-0.38	186.19
	NORMAL	2,663.0	30.46	262.84	2,224.32	-199.27	-1,294.04	1,309.27	1.68	-1.68	0.10	178.35
	NORMAL	2,757.0	28.84	262.31	2,306.01	-205.27	-1,340.15	1,355.75	1.75	-1.72	-0.56	188.96
	NORMAL	2,851.0	26.69	261.96	2,389.18	-211.26	-1,383.52	1,399.53	2.29	-2.29	-0.37	184.18
	NORMAL	2,946.0	24.48	261.79	2,474.86	-217.05	-1,424.14	1,440.55	2.33	-2.33	-0.18	181.83
	NORMAL	3,040.0	22.33	263.72	2,561.12	-221.79	-1,461.17	1,477.86	2.43	-2.29	2.05	161.26
9/9/2014	NORMAL	3,134.0	20.35	263.54	2,648.67	-225.58	-1,495.16	1,512.03	2.11	-2.11	-0.19	181.81
	NORMAL	3,228.0	18.90	263.98	2,737.21	-229.02	-1,526.54	1,543.56	1.55	-1.54	0.47	174.39
	NORMAL	3,323.0	17.06	263.11	2,827.57	-232.30	-1,555.68	1,572.85	1.96	-1.94	-0.92	187.89
	NORMAL	3,417.0	14.77	262.67	2,917.96	-235.49	-1,581.26	1,598.61	2.44	-2.44	-0.47	182.80
	NORMAL	3,511.0	13.19	262.93	3,009.17	-238.34	-1,603.79	1,621.31	1.68	-1.68	0.28	177.85
	NORMAL	3,606.0	11.30	264.95	3,102.01	-240.49	-1,623.82	1,641.43	2.04	-1.99	2.13	168.21
	NORMAL	3,700.0	8.75	263.90	3,194.56	-242.06	-1,640.10	1,657.76	2.72	-2.71	-1.12	183.58
	NORMAL	3,793.0	7.08	260.03	3,286.68	-243.80	-1,652.78	1,670.55	1.88	-1.80	-4.16	195.79
	NORMAL	3,888.0	5.10	267.06	3,381.14	-245.03	-1,662.77	1,680.61	2.22	-2.08	7.40	162.83
	NORMAL	3,982.0	2.73	264.69	3,474.91	-245.46	-1,669.17	1,687.00	2.53	-2.52	-2.52	182.72
	NORMAL	4,075.0	2.59	263.46	3,567.81	-245.90	-1,673.46	1,691.31	0.16	-0.15	-1.32	201.57
	NORMAL	4,169.0	1.14	247.72	3,661.76	-246.50	-1,676.44	1,694.34	1.62	-1.54	-16.74	191.71
	NORMAL	4,263.0	1.45	243.15	3,755.73	-247.39	-1,678.36	1,696.38	0.35	0.33	-4.86	339.28
	NORMAL	4,358.0	1.50	242.45	3,850.70	-248.51	-1,680.54	1,698.70	0.06	0.05	-0.74	339.83
9/10/2014	NORMAL	4,452.0	1.85	243.15	3,944.66	-249.76	-1,682.98	1,701.32	0.37	0.37	0.74	3.70
	NORMAL	4,546.0	0.75	233.75	4,038.64	-250.81	-1,684.84	1,703.31	1.18	-1.17	-10.00	186.35
	NORMAL	4,640.0	0.97	231.46	4,132.63	-251.67	-1,685.96	1,704.55	0.23	0.23	-2.44	349.79
	NORMAL	4,735.0	1.27	240.78	4,227.61	-252.69	-1,687.50	1,706.24	0.37	0.32	9.81	35.98
	NORMAL	4,829.0	1.27	250.80	4,321.58	-253.54	-1,689.40	1,708.25	0.24	0.00	10.66	95.01
	NORMAL	4,923.0	1.58	260.73	4,415.56	-254.09	-1,691.66	1,710.57	0.42	0.33	10.56	43.57
	NORMAL	5,017.0	1.93	262.31	4,509.51	-254.51	-1,694.51	1,713.44	0.38	0.37	1.68	8.66
	NORMAL	5,111.0	2.20	263.11	4,603.45	-254.94	-1,697.87	1,716.83	0.29	0.29	0.85	6.49
	NORMAL	5,205.0	2.86	261.26	4,697.36	-255.51	-1,701.98	1,720.98	0.71	0.70	-1.97	352.02
	NORMAL	5,299.0	3.03	256.87	4,791.23	-256.43	-1,706.71	1,725.80	0.30	0.18	-4.67	304.80
	NORMAL	5,394.0	3.08	253.96	4,886.10	-257.71	-1,711.61	1,730.84	0.17	0.05	-3.06	266.41
	NORMAL	5,488.0	2.99	258.62	4,979.97	-258.89	-1,716.44	1,735.80	0.28	-0.10	4.96	112.36
	NORMAL	5,545.0	2.86	259.68	5,036.89	-259.44	-1,719.30	1,738.70	0.25	-0.23	1.86	157.94
	NORMAL	5,605.0	2.86	259.68	5,096.82	-259.97	-1,722.24	1,741.70	0.00	0.00	0.00	0.00