

1 General

1.1 Customer Information

Company	PICEANCE VLY
Representative	
Address	

1.2 Well Information

Well	SG 422-23	Wellbore No.	
Well Name	SG 422-23	Common Name	SG 422-23
Project	SG 23-07S-096W	Site	GV 18-23 Pad
Vertical Section Azimuth	143.63 (°)	North Reference	
Origin N/S		Origin E/W	
Spud Date	1/27/2012	UWI	SG 422-23
Active Datum	KB @5,158.0ft (above Mean Sea Level)		

2 Survey Name

2.1 Survey Name: Survey #1

Survey Name	Survey #1	Company	MOSTAR
Date Started	1/27/2012	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

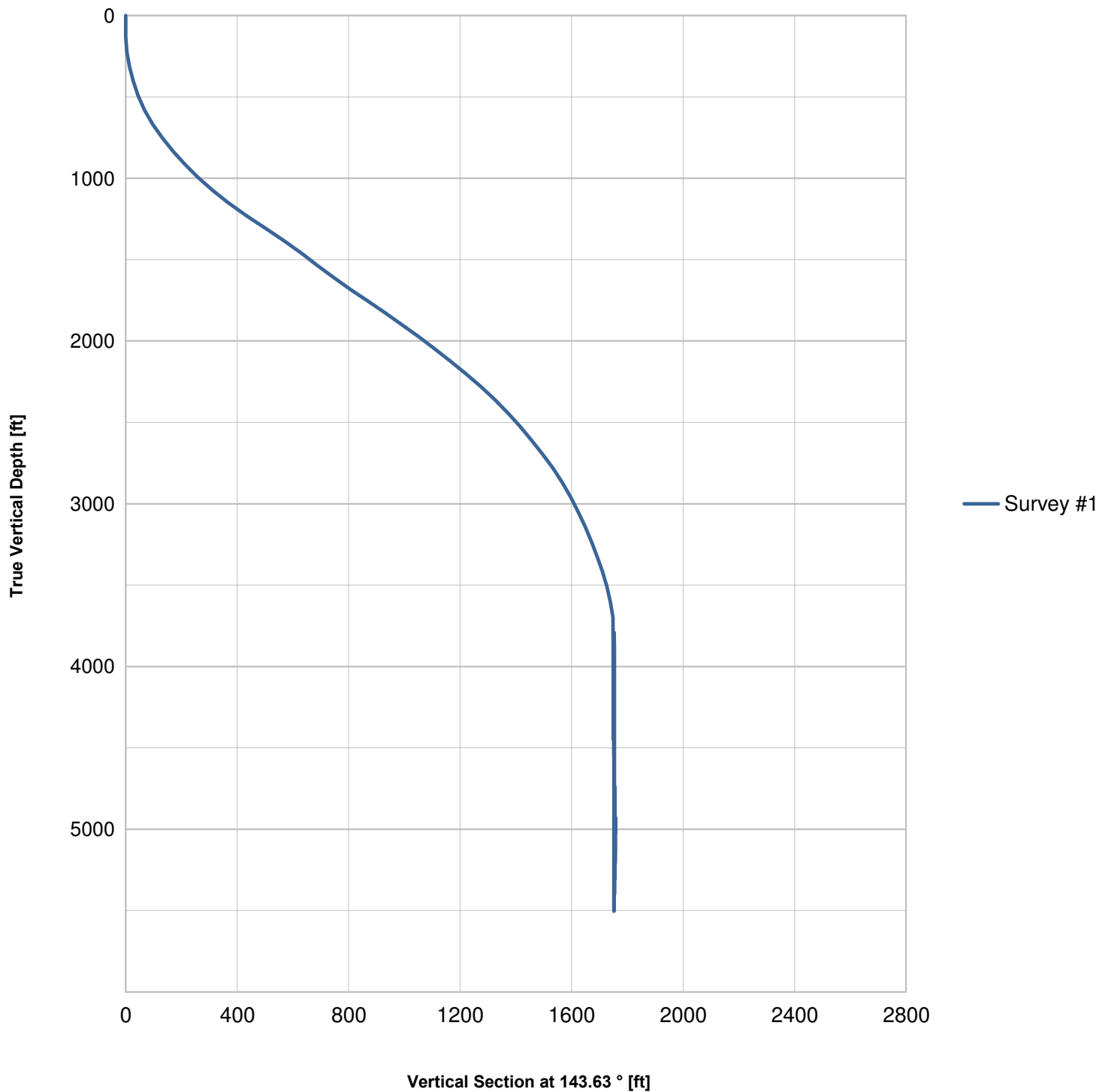
Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLS (°/100ft)	Build Rate (°/100ft)	Turn (°/100ft)	TFace (°)
1/27/2012	Tie On	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/27/2012	NORMAL	105.0	0.30	127.70	105.00	-0.17	0.22	0.26	0.29	0.29	0.00	127.70
	NORMAL	135.0	0.90	141.30	135.00	-0.40	0.43	0.58	2.04	2.00	45.33	20.21
	NORMAL	226.0	3.90	148.60	225.91	-3.60	2.49	4.37	3.31	3.30	8.02	9.47
	NORMAL	317.0	7.90	140.90	316.41	-11.10	8.05	13.71	4.47	4.40	-8.46	344.96
	NORMAL	408.0	9.80	145.30	406.32	-22.32	16.40	27.70	2.21	2.09	4.84	21.79
	NORMAL	498.0	12.70	143.50	494.58	-36.57	26.65	45.25	3.25	3.22	-2.00	352.21
	NORMAL	589.0	16.30	146.00	582.67	-55.21	39.74	68.02	4.01	3.96	2.75	11.08
	NORMAL	681.0	21.00	143.90	669.82	-79.24	56.68	97.42	5.16	5.11	-2.28	350.87
	NORMAL	771.0	23.90	145.30	752.99	-107.27	76.57	131.78	3.28	3.22	1.56	11.09
	NORMAL	862.0	26.40	143.50	835.36	-138.69	99.10	170.44	2.87	2.75	-1.98	342.17
	NORMAL	953.0	29.10	143.00	915.88	-172.63	124.46	212.81	2.98	2.97	-0.55	354.85
	NORMAL	1,044.0	32.00	143.70	994.24	-209.75	152.05	259.06	3.21	3.19	0.77	7.30
	NORMAL	1,139.0	34.60	142.70	1,073.64	-251.50	183.31	311.21	2.80	2.74	-1.05	347.66
	NORMAL	1,233.0	38.30	143.40	1,149.24	-296.13	216.86	367.04	3.96	3.94	0.74	6.70
	NORMAL	1,328.0	40.20	144.30	1,222.80	-344.66	252.31	427.14	2.09	2.00	0.95	17.03
	NORMAL	1,365.0	40.80	144.80	1,250.94	-364.24	266.24	451.17	1.84	1.62	1.35	28.61
1/29/2012	NORMAL	1,452.0	41.90	145.30	1,316.24	-411.35	299.17	508.63	1.32	1.26	0.57	16.90
	NORMAL	1,546.0	40.60	142.70	1,386.92	-461.49	335.57	570.59	2.29	-1.38	-2.77	231.85
	NORMAL	1,641.0	37.70	136.60	1,460.61	-507.22	374.29	630.36	5.07	-3.05	-6.42	230.68
	NORMAL	1,735.0	37.40	139.00	1,535.14	-549.65	412.77	687.35	1.59	-0.32	2.55	102.54

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 (°)
1/29/2012	NORMAL	1,830.0	38.60	144.30	1,610.02	-595.50	449.00	745.75	3.66	1.26	5.58	71.91
	NORMAL	1,925.0	40.80	144.40	1,683.11	-644.81	484.36	806.43	2.32	2.32	0.11	1.70
1/30/2012	NORMAL	2,019.0	41.50	143.20	1,753.89	-694.72	520.90	868.28	1.12	0.74	-1.28	311.10
	NORMAL	2,114.0	39.90	144.10	1,825.91	-744.60	557.62	930.22	1.79	-1.68	0.95	160.20
	NORMAL	2,208.0	40.30	143.90	1,897.82	-793.59	593.21	990.77	0.45	0.43	-0.21	342.07
	NORMAL	2,303.0	37.60	143.50	1,971.69	-841.72	628.55	1,050.49	2.85	-2.84	-0.42	185.17
	NORMAL	2,397.0	36.70	143.20	2,046.61	-887.26	662.44	1,107.25	0.98	-0.96	-0.32	191.26
	NORMAL	2,492.0	36.50	142.80	2,122.88	-932.50	696.53	1,163.89	0.33	-0.21	-0.42	229.86
	NORMAL	2,586.0	35.00	144.30	2,199.17	-976.66	729.16	1,218.80	1.85	-1.60	1.60	150.31
	NORMAL	2,681.0	33.40	145.50	2,277.74	-1,020.34	759.87	1,272.18	1.83	-1.68	1.26	157.64
	NORMAL	2,775.0	31.00	145.80	2,357.28	-1,061.69	788.14	1,322.24	2.56	-2.55	0.32	176.32
	NORMAL	2,870.0	29.10	143.70	2,439.50	-1,100.54	815.57	1,369.79	2.29	-2.00	-2.21	208.06
	NORMAL	2,964.0	26.60	144.10	2,522.61	-1,136.02	841.44	1,413.70	2.67	-2.66	0.43	175.90
	NORMAL	3,059.0	25.40	141.40	2,608.00	-1,169.17	866.63	1,455.33	1.77	-1.26	-2.84	223.40
	NORMAL	3,153.0	24.30	142.10	2,693.29	-1,200.19	891.09	1,494.81	1.21	-1.17	0.74	165.35
	NORMAL	3,248.0	21.70	141.60	2,780.73	-1,229.38	914.01	1,531.91	2.74	-2.74	-0.53	184.07
	NORMAL	3,342.0	20.50	141.10	2,868.43	-1,255.81	935.14	1,565.72	1.29	-1.28	-0.53	188.30
	NORMAL	3,437.0	17.20	141.10	2,958.32	-1,279.70	954.41	1,596.38	3.47	-3.47	0.00	180.00
	NORMAL	3,531.0	16.40	140.40	3,048.31	-1,300.74	971.60	1,623.52	0.88	-0.85	-0.74	193.86
	NORMAL	3,626.0	14.00	147.20	3,139.99	-1,320.74	986.37	1,648.38	3.14	-2.53	7.16	146.64
	NORMAL	3,720.0	13.30	148.80	3,231.33	-1,339.54	998.14	1,670.50	0.85	-0.74	1.70	152.43
	NORMAL	3,815.0	12.20	144.80	3,323.99	-1,357.09	1,009.58	1,691.42	1.48	-1.16	-4.21	216.81
	NORMAL	3,909.0	11.00	144.80	3,416.07	-1,372.54	1,020.48	1,710.31	1.28	-1.28	0.00	180.00
	NORMAL	4,004.0	8.30	145.70	3,509.72	-1,385.61	1,029.57	1,726.23	2.85	-2.84	0.95	177.25
	NORMAL	4,098.0	6.80	141.40	3,602.90	-1,395.57	1,036.86	1,738.57	1.70	-1.60	-4.57	198.52
	NORMAL	4,193.0	4.50	152.50	3,697.43	-1,403.27	1,042.09	1,747.88	2.67	-2.42	11.68	160.04
	NORMAL	4,288.0	1.50	203.70	3,792.30	-1,407.71	1,043.32	1,752.18	3.94	-3.16	53.89	161.81
	NORMAL	4,382.0	0.30	310.40	3,886.29	-1,408.68	1,042.63	1,752.55	1.71	-1.28	113.51	169.73
	NORMAL	4,477.0	0.60	347.60	3,981.29	-1,408.03	1,042.34	1,751.86	0.43	0.32	39.16	63.87
	NORMAL	4,571.0	0.40	305.80	4,075.29	-1,407.36	1,041.97	1,751.10	0.43	-0.21	-44.47	221.46
	NORMAL	4,666.0	1.10	304.60	4,170.28	-1,406.65	1,040.95	1,749.92	0.74	0.74	-1.26	358.11
	NORMAL	4,760.0	0.70	50.90	4,264.27	-1,405.77	1,040.65	1,749.04	1.55	-0.43	113.09	152.60
	NORMAL	4,855.0	0.40	93.30	4,359.27	-1,405.43	1,041.43	1,749.22	0.51	-0.32	44.63	146.31
	NORMAL	4,949.0	0.60	170.30	4,453.26	-1,405.93	1,041.84	1,749.87	0.68	0.21	81.91	114.39
	NORMAL	5,044.0	1.10	199.30	4,548.25	-1,407.28	1,041.62	1,750.83	0.68	0.53	30.53	55.82
1/31/2012	NORMAL	5,138.0	0.90	119.60	4,642.24	-1,408.50	1,041.97	1,752.01	1.37	-0.21	-84.79	223.32
	NORMAL	5,233.0	0.80	144.80	4,737.23	-1,409.41	1,043.00	1,753.36	0.40	-0.11	26.53	117.34
	NORMAL	5,327.0	1.30	181.30	4,831.22	-1,411.01	1,043.35	1,754.86	0.86	0.53	38.83	72.41
	NORMAL	5,422.0	1.00	162.90	4,926.20	-1,412.88	1,043.57	1,756.49	0.50	-0.32	-19.37	221.95
	NORMAL	5,516.0	1.10	39.70	5,020.19	-1,412.97	1,044.39	1,757.05	1.97	0.11	-131.06	209.88
	NORMAL	5,611.0	0.60	300.00	5,115.19	-1,412.02	1,044.54	1,756.38	1.41	-0.53	-104.95	206.22
	NORMAL	5,705.0	1.20	267.80	5,209.17	-1,411.81	1,043.13	1,755.37	0.81	0.64	-34.26	303.01
	NORMAL	5,800.0	1.90	254.60	5,304.14	-1,412.27	1,040.62	1,754.25	0.82	0.74	-13.89	326.27
	NORMAL	5,894.0	2.30	255.50	5,398.08	-1,413.15	1,037.29	1,752.99	0.43	0.43	0.96	5.16
	NORMAL	5,955.0	2.50	255.00	5,459.02	-1,413.81	1,034.82	1,752.05	0.33	0.33	-0.82	353.77
	NORMAL	6,000.0	2.50	256.00	5,503.98	-1,414.30	1,032.92	1,751.32	0.10	0.00	2.22	90.50

3 Charts

3.1 Vertical Section View



3.2 Plan View

