

Deviation Summary

PICEANCE VLY

1 General

1.1 Customer Information

Company	PICEANCE VLY
Representative	
Address	

1.2 Well/Wellbore Information

Well	SG 442-28	Wellbore No.	00
Wellbore Legal Name	SG 442-28	Common Wellbore Name	SG 442-28
Project	SG 28-07S-096W	Site	SG 43-28 Pad
Vertical Section Azimuth	18.90 (°)	North reference	
Origin N/S		Origin E/W	
Spud date	9/15/2014	UWI	SG 442-28
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	9/15/2014	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 (°/100usft)	Build Rate (°/100usft)	Turn (°/100usft)	Tface (°)
9/15/2014	Tie On	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/15/2014	NORMAL	102.0	1.76	45.35	101.98	1.10	1.11	1.40	1.73	1.73	0.00	45.35
	NORMAL	132.0	2.11	46.76	131.97	1.80	1.84	2.30	1.18	1.17	4.70	8.45
	NORMAL	162.0	2.55	42.36	161.94	2.67	2.70	3.40	1.58	1.47	-14.67	335.67
	NORMAL	192.0	2.90	28.30	191.91	3.84	3.51	4.76	2.51	1.17	-46.87	290.50
	NORMAL	222.0	3.50	34.28	221.86	5.26	4.38	6.40	2.29	2.00	19.93	32.10
	NORMAL	253.0	4.05	26.98	252.79	7.02	5.41	8.39	2.35	1.77	-23.55	315.17
	NORMAL	282.0	5.45	22.85	281.69	9.20	6.41	10.78	4.97	4.83	-14.24	344.21
	NORMAL	313.0	6.42	23.55	312.53	12.15	7.67	13.98	3.14	3.13	2.26	4.62
	NORMAL	343.0	7.13	16.70	342.32	15.47	8.88	17.51	3.58	2.37	-22.83	307.87
	NORMAL	373.0	7.83	16.79	372.06	19.21	10.01	21.41	2.33	2.33	0.30	1.00
	NORMAL	404.0	9.15	14.24	402.72	23.62	11.22	25.98	4.43	4.26	-8.23	342.82
	NORMAL	434.0	10.56	14.68	432.28	28.59	12.51	31.10	4.71	4.70	1.47	3.27
	NORMAL	464.0	11.35	14.06	461.73	34.11	13.92	36.78	2.66	2.63	-2.07	351.21
	NORMAL	494.0	11.70	13.54	491.13	39.93	15.35	42.75	1.22	1.17	-1.73	343.21
	NORMAL	524.0	12.40	16.00	520.47	45.99	16.95	49.00	2.89	2.33	8.20	37.47
	NORMAL	554.0	13.28	15.21	549.72	52.41	18.74	55.65	2.99	2.93	-2.63	348.33
	NORMAL	584.0	14.43	16.88	578.84	59.31	20.73	62.83	4.06	3.83	5.57	19.99
	NORMAL	614.0	14.78	17.14	607.87	66.54	22.94	70.39	1.19	1.17	0.87	10.74
	NORMAL	644.0	15.75	19.86	636.81	74.03	25.45	78.28	4.02	3.23	9.07	37.76
	NORMAL	675.0	16.28	21.97	666.61	82.02	28.51	86.83	2.54	1.71	6.81	48.70

2.1.2 Survey Stations (Continued)

Date	Type	MD (ft)	Inc. (")	Azi. (")	TVD (ft)	N/S (ft)	E/W (ft)	V. sec. (ft)	DLS ("/100usft)	Build Rate ("/100usft)	Turn ("/100usft)	Tface (")
9/15/2014	NORMAL	705.0	16.89	21.71	695.36	89.96	31.69	95.38	2.05	2.03	-0.87	352.94
	NORMAL	736.0	18.12	21.71	724.93	98.63	35.14	104.69	3.97	3.97	0.00	0.00
	NORMAL	766.0	19.62	21.27	753.31	107.66	38.70	114.39	5.02	5.00	-1.47	354.37
	NORMAL	796.0	20.32	21.97	781.51	117.18	42.47	124.62	2.47	2.33	2.33	19.19
9/16/2014	NORMAL	827.0	21.20	20.21	810.50	127.43	46.42	135.60	3.48	2.84	-5.68	323.84
	NORMAL	888.0	22.96	17.84	867.02	149.11	53.88	158.52	3.23	2.89	-3.89	332.05
	NORMAL	970.0	24.11	17.58	942.20	180.30	63.84	191.26	1.41	1.40	-0.32	354.72
9/17/2014	NORMAL	1,076.0	25.01	16.30	1,038.61	222.45	76.67	235.29	0.99	0.85	-1.21	328.83
	NORMAL	1,170.0	25.06	15.86	1,123.78	280.67	87.68	275.02	0.21	0.05	-0.47	284.83
	NORMAL	1,264.0	23.60	18.67	1,209.43	297.65	99.15	313.72	1.98	-1.55	2.99	142.86
	NORMAL	1,359.0	22.15	18.32	1,296.96	332.67	110.87	350.64	1.53	-1.53	-0.37	185.20
	NORMAL	1,453.0	23.25	21.31	1,383.68	366.78	123.18	386.90	1.70	1.17	3.18	47.76
	NORMAL	1,547.0	24.97	20.87	1,469.47	402.60	136.99	425.27	1.84	1.83	-0.47	353.83
	NORMAL	1,641.0	24.92	20.08	1,554.71	439.74	150.86	464.90	0.36	-0.05	-0.84	281.11
	NORMAL	1,736.0	25.36	18.85	1,640.71	477.79	164.30	505.25	0.72	0.46	-1.29	309.54
	NORMAL	1,830.0	23.91	18.58	1,726.15	514.90	176.88	544.44	1.55	-1.54	-0.29	184.32
	NORMAL	1,924.0	23.91	17.00	1,812.08	551.18	188.52	582.52	0.68	0.00	-1.68	269.28
	NORMAL	2,018.0	22.42	17.79	1,898.50	586.46	199.56	619.49	1.62	-1.59	0.84	168.58
	NORMAL	2,113.0	20.35	18.76	1,986.96	619.36	210.41	654.12	2.21	-2.18	1.02	170.75
	NORMAL	2,207.0	18.33	18.94	2,075.65	648.82	220.47	685.25	2.15	-2.15	0.19	178.39
	NORMAL	2,301.0	18.37	19.02	2,164.87	676.80	230.09	714.84	0.05	0.04	0.09	32.23
	NORMAL	2,395.0	16.61	17.09	2,254.52	703.65	238.87	743.09	1.97	-1.87	-2.05	197.32
	NORMAL	2,490.0	14.86	16.30	2,345.96	728.32	246.28	768.83	1.86	-1.84	-0.83	186.60
	NORMAL	2,584.0	13.14	18.94	2,437.16	750.00	253.13	791.56	1.95	-1.83	2.81	160.91
	NORMAL	2,678.0	11.87	22.01	2,528.93	769.07	260.22	811.90	1.52	-1.35	3.27	153.86
	NORMAL	2,772.0	10.07	20.16	2,621.21	785.75	266.68	829.77	1.95	-1.91	-1.97	190.16
	NORMAL	2,866.0	9.58	20.96	2,713.83	800.77	272.31	845.80	0.54	-0.52	0.85	164.83
	NORMAL	2,961.0	8.04	22.36	2,807.71	814.29	277.66	860.33	1.64	-1.62	1.47	172.76
	NORMAL	3,055.0	6.64	18.50	2,900.93	825.53	281.89	872.33	1.58	-1.49	-4.11	197.50
9/18/2014	NORMAL	3,149.0	5.28	22.71	2,994.43	834.67	285.28	882.08	1.52	-1.45	4.48	164.27
	NORMAL	3,243.0	5.05	23.86	3,088.04	842.45	288.63	890.52	0.27	-0.24	1.22	158.34
	NORMAL	3,338.0	4.88	22.89	3,182.69	849.99	291.89	898.71	0.20	-0.18	-1.02	205.80
	NORMAL	3,432.0	4.62	22.98	3,276.36	857.16	294.92	906.48	0.28	-0.28	0.10	178.40
	NORMAL	3,526.0	4.57	19.81	3,370.06	864.17	297.67	914.00	0.28	-0.05	-3.37	257.28
	NORMAL	3,621.0	4.04	24.03	3,464.79	870.79	300.31	921.12	0.65	-0.56	4.44	151.23
	NORMAL	3,715.0	3.96	25.00	3,558.56	876.75	303.03	927.64	0.11	-0.09	1.03	140.26
	NORMAL	3,808.0	3.82	25.35	3,651.35	882.46	305.72	933.91	0.15	-0.15	0.38	170.55
	NORMAL	3,903.0	2.07	32.65	3,746.22	886.77	308.00	938.72	1.88	-1.84	7.68	171.53
	NORMAL	3,997.0	1.85	34.76	3,840.17	889.44	309.78	941.83	0.25	-0.23	2.24	162.89
	NORMAL	4,090.0	1.45	36.07	3,933.13	891.63	311.33	944.40	0.43	-0.43	1.41	175.27
	NORMAL	4,184.0	1.23	39.06	4,027.10	893.37	312.66	946.48	0.25	-0.23	3.18	163.86
	NORMAL	4,278.0	0.83	49.26	4,121.09	894.60	313.82	948.02	0.47	-0.43	10.85	160.42
	NORMAL	4,373.0	0.57	63.58	4,216.08	895.26	314.76	948.95	0.33	-0.27	15.07	153.09
	NORMAL	4,467.0	0.35	45.92	4,310.08	895.67	315.38	949.54	0.28	-0.23	-18.79	204.18
	NORMAL	4,561.0	0.18	64.64	4,404.08	895.93	315.72	949.90	0.20	-0.18	19.91	162.16
	NORMAL	4,655.0	0.13	137.94	4,498.08	895.91	315.93	949.95	0.20	-0.05	77.98	138.88
	NORMAL	4,750.0	0.53	182.79	4,593.07	895.40	315.98	949.47	0.47	0.42	47.21	56.68
	NORMAL	4,844.0	0.97	193.57	4,687.07	894.19	315.77	948.26	0.49	0.47	11.47	23.22
	NORMAL	4,938.0	1.54	200.78	4,781.04	892.23	315.14	946.21	0.63	0.61	7.67	19.11
	NORMAL	5,032.0	1.98	200.69	4,875.00	889.53	314.12	943.32	0.47	0.47	-0.10	359.60
9/19/2014	NORMAL	5,126.0	1.98	197.00	4,968.94	886.46	313.07	940.08	0.14	0.00	-3.93	268.16
	NORMAL	5,220.0	1.79	197.79	5,062.89	883.51	312.14	936.99	0.20	-0.20	0.84	172.61
	NORMAL	5,265.0	1.79	197.79	5,107.87	882.17	311.71	935.58	0.00	0.00	0.00	0.00