

1 General

1.1 Customer Information

Company	PICEANCE VLY
Representative	
Address	

1.2 Well Information

Well	SG 523-35	Wellbore No.	
Well Name	SG 523-35	Common Name	SG 523-35
Project	SG 35-07S-096W	Site	SG 13-35 Pad
Vertical Section Azimuth	91.90 (°)	North Reference	True
Origin N/S		Origin E/W	
Spud Date	11/18/2011	UWI	SG 523-35
Active Datum	KB @5,403.0ft (above Mean Sea Level)		

2 Survey Name

2.1 Survey Name: Survey #1

Survey Name	Survey #1	Company	MOSTAR
Started	11/18/2011	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)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
11/18/2011	Tie On	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/18/2011	NORMAL	149.0	1.50	85.60	148.98	0.15	1.94	1.94	1.01	1.01	0.00	85.60
	NORMAL	241.0	3.50	72.90	240.89	1.07	5.83	5.79	2.24	2.17	-13.80	338.11
	NORMAL	333.0	5.70	91.80	332.59	1.75	13.08	13.02	2.87	2.39	20.54	44.23
	NORMAL	425.0	8.80	92.30	423.85	1.32	24.68	24.62	3.37	3.37	0.54	1.41
11/19/2011	NORMAL	516.0	11.30	90.70	513.44	0.94	40.56	40.50	2.76	2.75	-1.76	352.84
	NORMAL	608.0	14.30	91.00	603.15	0.63	60.93	60.88	3.26	3.26	0.33	1.42
	NORMAL	699.0	17.50	91.80	690.66	0.00	85.85	85.80	3.52	3.52	0.88	4.30
11/20/2011	NORMAL	790.0	18.50	91.80	777.20	-0.88	113.96	113.92	1.10	1.10	0.00	0.00
	NORMAL	881.0	17.00	91.80	863.87	-1.75	141.69	141.67	1.65	-1.65	0.00	180.00
	NORMAL	972.0	17.10	91.80	950.87	-2.59	168.35	168.35	0.11	0.11	0.00	0.00
	NORMAL	1,067.0	15.90	91.60	1,041.95	-3.39	195.32	195.33	1.26	-1.26	-0.21	182.61
	NORMAL	1,161.0	16.10	91.20	1,132.31	-4.03	221.23	221.24	0.24	0.21	-0.43	330.94
	NORMAL	1,255.0	15.80	90.70	1,222.69	-4.46	247.05	247.06	0.35	-0.32	-0.53	204.37
	NORMAL	1,349.0	14.90	91.90	1,313.34	-5.01	271.93	271.94	1.02	-0.96	1.28	161.14
	NORMAL	1,444.0	14.80	88.10	1,405.17	-5.02	296.26	296.27	1.03	-0.11	-4.00	262.30
	NORMAL	1,538.0	17.30	90.00	1,495.50	-4.62	322.24	322.22	2.72	2.66	2.02	12.78
	NORMAL	1,632.0	18.80	92.80	1,584.87	-5.36	351.35	351.33	1.84	1.60	2.98	31.38
	NORMAL	1,726.0	18.50	91.80	1,673.93	-6.57	381.38	381.39	0.47	-0.32	-1.06	226.36
	NORMAL	1,820.0	17.90	91.40	1,763.23	-7.39	410.73	410.75	0.65	-0.64	-0.43	191.57
	NORMAL	1,915.0	17.90	95.10	1,853.64	-9.04	439.87	439.93	1.20	0.00	3.89	91.76

2.1.2 Survey Stations (Continued)

Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
11/20/2011	NORMAL	2,009.0	17.90	94.70	1,943.09	-11.51	468.66	468.78	0.13	0.00	-0.43	269.81
	NORMAL	2,103.0	17.50	95.10	2,032.64	-13.95	497.13	497.32	0.44	-0.43	0.43	163.28
	NORMAL	2,197.0	17.60	94.70	2,122.26	-16.37	525.37	525.63	0.17	0.11	-0.43	309.47
	NORMAL	2,291.0	16.00	95.80	2,212.25	-18.84	552.43	552.75	1.74	-1.70	1.17	169.29
	NORMAL	2,385.0	16.20	94.90	2,302.56	-21.27	578.38	578.77	0.34	0.21	-0.96	308.27
	NORMAL	2,480.0	14.20	96.30	2,394.23	-23.68	603.17	603.62	2.14	-2.11	1.47	170.27
	NORMAL	2,574.0	13.30	92.80	2,485.54	-25.48	625.43	625.93	1.30	-0.96	-3.72	221.06
	NORMAL	2,668.0	13.10	91.90	2,577.05	-26.36	646.87	647.39	0.31	-0.21	-0.96	225.34
	NORMAL	2,762.0	10.80	91.60	2,669.01	-26.96	666.33	666.85	2.45	-2.45	-0.32	181.40
	NORMAL	2,857.0	10.20	93.20	2,762.42	-27.68	683.62	684.16	0.70	-0.63	1.68	154.87
	NORMAL	2,951.0	9.30	93.30	2,855.06	-28.58	699.51	700.08	0.96	-0.96	0.11	178.97
	NORMAL	3,045.0	8.90	92.60	2,947.88	-29.34	714.36	714.94	0.44	-0.43	-0.74	195.13
	NORMAL	3,139.0	8.20	92.60	3,040.83	-29.98	728.32	728.92	0.74	-0.74	0.00	180.00
	NORMAL	3,233.0	7.40	94.90	3,133.96	-30.80	741.05	741.66	0.91	-0.85	2.45	159.82
	NORMAL	3,327.0	6.50	91.40	3,227.27	-31.45	752.40	753.03	1.06	-0.96	-3.72	203.47
	NORMAL	3,422.0	5.60	96.10	3,321.74	-32.07	762.39	763.03	1.08	-0.95	4.95	153.49
	NORMAL	3,516.0	5.30	87.50	3,415.32	-32.37	771.28	771.93	0.92	-0.32	-9.15	245.59
11/21/2011	NORMAL	3,610.0	3.40	84.40	3,509.04	-31.91	778.40	779.03	2.04	-2.02	-3.30	185.51
	NORMAL	3,704.0	3.00	78.90	3,602.90	-31.16	783.58	784.19	0.54	-0.43	-5.85	214.78
	NORMAL	3,798.0	3.40	54.10	3,696.75	-29.05	788.26	788.79	1.52	0.43	-26.38	273.50
	NORMAL	3,893.0	2.80	57.30	3,791.62	-26.15	792.49	792.92	0.66	-0.63	3.37	165.51
	NORMAL	3,987.0	2.30	60.30	3,885.52	-23.97	796.06	796.42	0.55	-0.53	3.19	166.55
	NORMAL	4,081.0	1.80	59.80	3,979.46	-22.30	798.97	799.27	0.53	-0.53	-0.53	181.80
11/22/2011	NORMAL	4,175.0	1.40	79.60	4,073.43	-21.35	801.38	801.65	0.72	-0.43	21.06	135.51
	NORMAL	4,269.0	1.10	68.20	4,167.40	-20.80	803.35	803.60	0.41	-0.32	-12.13	214.05
	NORMAL	4,364.0	0.50	89.50	4,262.39	-20.46	804.61	804.84	0.69	-0.63	22.42	164.02
	NORMAL	4,458.0	0.30	138.00	4,356.39	-20.64	805.18	805.43	0.40	-0.21	51.60	143.28
	NORMAL	4,552.0	0.30	211.30	4,450.39	-21.03	805.22	805.48	0.38	0.00	77.98	126.65
	NORMAL	4,657.0	0.40	236.80	4,555.39	-21.47	804.77	805.04	0.17	0.10	24.29	70.48
	NORMAL	4,741.0	0.70	254.00	4,639.38	-21.77	804.03	804.31	0.40	0.36	20.48	37.61
	NORMAL	4,835.0	1.30	240.30	4,733.37	-22.46	802.55	802.86	0.68	0.64	-14.57	331.33
	NORMAL	4,930.0	1.70	197.60	4,828.34	-24.34	801.19	801.56	1.21	0.42	-44.95	267.49
	NORMAL	5,024.0	0.90	232.40	4,922.32	-26.12	800.19	800.61	1.16	-0.85	37.02	151.87
	NORMAL	5,118.0	1.10	228.20	5,016.30	-27.17	798.93	799.39	0.23	0.21	-4.47	337.76
	NORMAL	5,212.0	1.50	236.80	5,110.28	-28.44	797.23	797.73	0.47	0.43	9.15	30.34
	NORMAL	5,306.0	2.50	245.40	5,204.22	-29.97	794.33	794.89	1.11	1.06	9.15	21.03
	NORMAL	5,351.0	2.40	246.10	5,249.18	-30.76	792.58	793.16	0.23	-0.22	1.56	163.69
11/23/2011	NORMAL	5,396.0	2.40	246.10	5,294.14	-31.52	790.86	791.47	0.00	0.00	0.00	0.00