

**1 General**

**1.1 Customer Information**

Company	PICEANCE VLY
Representative	
Address	

**1.2 Well Information**

Well	GM 524-14	Wellbore No.	
Well Name	GM 524-14	Common Name	GM 524-14
Project	SG 23-07S-096W	Site	GV 18-23 Pad
Vertical Section Azimuth	15.73 (°)	North Reference	
Origin N/S		Origin E/W	
Spud Date	1/19/2012	UWI	GM 524-14
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	1/19/2012	Ended	1/23/2012
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**

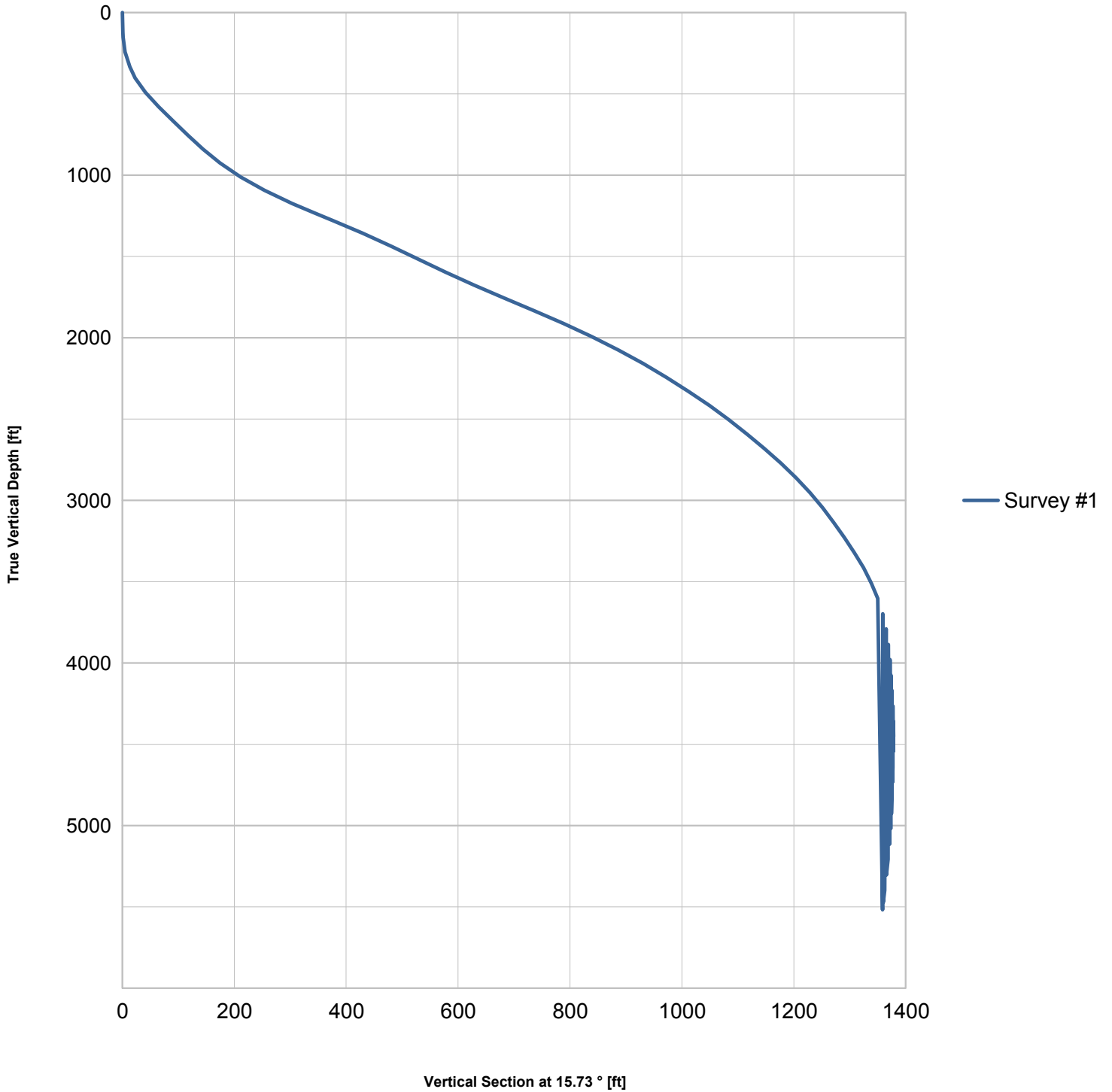
Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLS (°/100ft)	Build Rate (°/100ft)	Turn (°/100ft)	TFace (°)
1/19/2012	Tie On	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/19/2012	NORMAL	122.0	0.88	26.46	122.00	0.84	0.42	0.92	0.72	0.72	0.00	26.46
	NORMAL	152.0	0.97	8.70	151.99	1.30	0.56	1.40	1.00	0.30	-59.20	278.42
	NORMAL	242.0	3.87	38.23	241.90	4.44	2.55	4.96	3.40	3.22	32.81	38.50
	NORMAL	334.0	7.13	34.28	333.47	11.59	7.69	13.25	3.57	3.54	-4.29	351.41
	NORMAL	404.0	9.30	22.43	402.75	20.41	12.30	22.98	3.92	3.10	-16.93	316.07
	NORMAL	495.0	13.80	18.49	491.89	37.51	18.55	41.14	5.02	4.95	-4.33	348.12
	NORMAL	586.0	16.66	19.89	579.68	60.08	26.43	64.99	3.17	3.14	1.54	8.00
	NORMAL	677.0	16.36	24.94	666.93	83.97	36.27	90.65	1.61	-0.33	5.55	104.22
	NORMAL	768.0	17.44	23.45	754.00	108.10	47.10	116.82	1.28	1.19	-1.64	337.43
	NORMAL	859.0	18.01	16.16	840.69	134.12	56.45	144.40	2.52	0.63	-8.01	280.91
	NORMAL	949.0	21.23	13.11	925.46	163.37	64.02	174.60	3.75	3.58	-3.39	340.91
	NORMAL	1,041.0	25.30	15.15	1,009.96	198.58	72.94	210.92	4.51	4.42	2.22	12.14
	NORMAL	1,135.0	29.22	15.30	1,093.51	240.11	84.25	253.96	4.17	4.17	0.16	1.07
	NORMAL	1,230.0	33.54	14.37	1,174.59	287.93	96.88	303.41	4.58	4.55	-0.98	353.21
	NORMAL	1,300.0	35.12	14.26	1,232.40	326.18	106.64	342.87	2.26	2.26	-0.16	357.71
1/21/2012	NORMAL	1,357.0	35.20	13.30	1,279.00	358.05	114.46	375.68	0.98	0.14	-1.68	277.84
	NORMAL	1,452.0	34.00	12.10	1,357.19	410.68	126.33	429.54	1.45	-1.26	-1.26	209.10
	NORMAL	1,546.0	31.40	14.20	1,436.29	460.12	137.85	480.26	3.02	-2.77	2.23	157.31
	NORMAL	1,641.0	30.80	15.60	1,517.64	507.54	150.46	529.32	0.99	-0.63	1.47	130.28
	NORMAL	1,735.0	31.70	15.90	1,598.00	554.47	163.70	578.09	0.97	0.96	0.32	9.94

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 (°)
1/21/2012	NORMAL	1,830.0	33.50	16.50	1,678.03	603.62	177.98	629.27	1.93	1.89	0.63	10.43
	NORMAL	1,924.0	34.60	18.60	1,755.91	653.79	193.86	681.86	1.71	1.17	2.23	47.78
	NORMAL	2,019.0	34.50	15.80	1,834.16	705.25	209.79	735.71	1.67	-0.11	-2.95	265.24
	NORMAL	2,113.0	33.10	15.20	1,912.28	755.63	223.77	788.00	1.53	-1.49	-0.64	193.16
	NORMAL	2,208.0	31.10	14.40	1,992.75	804.44	236.68	838.47	2.15	-2.11	-0.84	191.66
	NORMAL	2,303.0	29.20	14.40	2,074.89	850.65	248.54	886.17	2.00	-2.00	0.00	180.00
	NORMAL	2,397.0	26.90	15.10	2,157.85	893.39	259.79	930.37	2.47	-2.45	0.74	172.16
	NORMAL	2,492.0	25.20	14.70	2,243.19	933.71	270.52	972.08	1.80	-1.79	-0.42	185.72
	NORMAL	2,586.0	24.10	15.20	2,328.62	971.59	280.63	1,011.28	1.19	-1.17	0.53	169.49
	NORMAL	2,681.0	22.60	14.20	2,415.84	1,008.00	290.19	1,048.92	1.63	-1.58	-1.05	194.34
	NORMAL	2,775.0	20.40	15.40	2,503.30	1,041.31	298.97	1,083.37	2.39	-2.34	1.28	169.25
	NORMAL	2,870.0	20.30	15.10	2,592.37	1,073.18	307.66	1,116.40	0.15	-0.11	-0.32	226.07
	NORMAL	2,964.0	18.30	16.60	2,681.08	1,103.07	316.13	1,147.47	2.19	-2.13	1.60	166.78
	NORMAL	3,059.0	17.90	16.30	2,771.38	1,131.38	324.49	1,176.98	0.43	-0.42	-0.32	192.97
	NORMAL	3,153.0	15.60	17.50	2,861.38	1,157.30	332.34	1,204.06	2.47	-2.45	1.28	172.02
	NORMAL	3,248.0	15.00	18.40	2,953.02	1,181.15	340.06	1,229.11	0.68	-0.63	0.95	158.84
	NORMAL	3,342.0	12.60	21.20	3,044.30	1,202.25	347.61	1,251.47	2.65	-2.55	2.98	165.80
	NORMAL	3,437.0	11.80	15.40	3,137.16	1,221.28	353.94	1,271.50	1.54	-0.84	-6.11	234.06
1/22/2012	NORMAL	3,531.0	11.30	15.60	3,229.25	1,239.42	358.97	1,290.32	0.53	-0.53	0.21	175.52
	NORMAL	3,626.0	10.90	15.60	3,322.47	1,257.03	363.89	1,308.61	0.42	-0.42	0.00	180.00
	NORMAL	3,720.0	9.00	13.70	3,415.06	1,272.74	368.02	1,324.85	2.05	-2.02	-2.02	188.87
	NORMAL	3,815.0	7.40	12.10	3,509.08	1,285.94	371.06	1,338.38	1.70	-1.68	-1.68	187.33
	NORMAL	3,909.0	6.60	21.20	3,602.38	1,296.90	374.28	1,349.80	1.45	-0.85	9.68	130.26
	NORMAL	4,004.0	4.60	25.40	3,696.93	1,305.43	377.89	1,358.99	2.15	-2.11	4.42	170.50
	NORMAL	4,098.0	2.80	32.50	3,790.73	1,310.77	380.74	1,364.90	1.97	-1.91	7.55	169.24
	NORMAL	4,193.0	2.50	33.00	3,885.63	1,314.46	383.12	1,369.10	0.32	-0.32	0.53	175.84
	NORMAL	4,287.0	1.10	358.20	3,979.58	1,317.09	384.21	1,371.92	1.83	-1.49	-37.02	201.47
	NORMAL	4,382.0	1.30	352.00	4,074.56	1,319.06	384.03	1,373.78	0.25	0.21	-6.53	323.88
	NORMAL	4,476.0	1.10	345.70	4,168.54	1,321.00	383.66	1,375.54	0.25	-0.21	-6.70	210.29
	NORMAL	4,571.0	1.20	332.90	4,263.52	1,322.76	382.98	1,377.05	0.29	0.11	-13.47	284.79
	NORMAL	4,666.0	1.10	306.10	4,358.50	1,324.19	381.79	1,378.10	0.57	-0.11	-28.21	246.26
	NORMAL	4,760.0	1.10	280.10	4,452.48	1,324.88	380.17	1,378.33	0.53	0.00	-27.66	257.00
	NORMAL	4,855.0	1.90	266.30	4,547.45	1,324.94	377.70	1,377.71	0.92	0.84	-14.53	328.70
	NORMAL	4,949.0	0.60	247.40	4,641.43	1,324.65	375.69	1,376.89	1.43	-1.38	-20.11	188.30
1/23/2012	NORMAL	5,044.0	0.40	234.30	4,736.42	1,324.26	374.96	1,376.32	0.24	-0.21	-13.79	203.31
	NORMAL	5,138.0	0.80	221.40	4,830.42	1,323.58	374.26	1,375.47	0.45	0.43	-13.72	334.82
	NORMAL	5,233.0	0.70	223.50	4,925.41	1,322.66	373.43	1,374.36	0.11	-0.11	2.21	165.68
	NORMAL	5,327.0	1.40	242.90	5,019.39	1,321.72	372.01	1,373.07	0.82	0.74	20.64	36.85
	NORMAL	5,422.0	1.90	239.00	5,114.35	1,320.38	369.63	1,371.14	0.54	0.53	-4.11	345.39
	NORMAL	5,516.0	2.50	238.50	5,208.28	1,318.51	366.54	1,368.50	0.64	0.64	-0.53	357.92
	NORMAL	5,611.0	2.50	235.70	5,303.19	1,316.26	363.06	1,365.39	0.13	0.00	-2.95	268.60
	NORMAL	5,705.0	2.50	241.10	5,397.10	1,314.11	359.57	1,362.38	0.25	0.00	5.74	92.70
	NORMAL	5,780.0	2.50	241.10	5,472.03	1,312.53	356.71	1,360.08	0.00	0.00	0.00	0.00
	NORMAL	5,825.0	2.50	241.10	5,516.99	1,311.58	354.99	1,358.70	0.00	0.00	0.00	0.00

### 3 Charts

#### 3.1 Vertical Section View



3.2 Plan View

