

1 General

1.1 Customer Information

Company	PICEANCE VLY
Representative	
Address	

1.2 Well Information

Well	GM 322-26	Wellbore No.	
Well Name	GM 322-26	Common Name	GM 322-26
Project	GV 27-06S-096W	Site	MV 23-27 Pad
Vertical Section Azimuth	112.01 (°)	North Reference	True
Origin N/S		Origin E/W	
Spud Date	8/22/2011	UWI	GM 322-26
Active Datum	KB @5,794.0ft (above Mean Sea Level)		

2 Survey Name

2.1 Survey Name: Survey #1

Survey Name	Survey #1	Company	
Started	8/22/2011	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 (°)
8/22/2011	Tie On	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8/22/2011	NORMAL	79.0	0.26	179.91	79.00	-0.18	0.00	0.07	0.33	0.33	0.00	179.91
	NORMAL	110.0	1.50	129.20	110.00	-0.51	0.31	0.48	4.36	4.00	-163.58	300.72
	NORMAL	141.0	2.29	112.85	140.98	-1.00	1.20	1.49	3.06	2.55	-52.74	317.26
	NORMAL	171.0	2.46	112.94	170.95	-1.49	2.35	2.73	0.57	0.57	0.30	1.30
	NORMAL	202.0	3.17	110.92	201.92	-2.05	3.76	4.25	2.31	2.29	-6.52	351.04
	NORMAL	232.0	4.40	116.81	231.85	-2.87	5.56	6.23	4.29	4.10	19.63	20.50
	NORMAL	263.0	5.28	114.52	262.74	-4.00	7.92	8.84	2.91	2.84	-7.39	346.47
	NORMAL	293.0	6.16	116.63	292.59	-5.29	10.61	11.82	3.02	2.93	7.03	14.49
	NORMAL	323.0	7.30	108.11	322.38	-6.60	13.86	15.33	5.04	3.80	-28.40	314.50
8/23/2011	NORMAL	355.0	8.18	111.45	354.09	-8.07	17.92	19.63	3.09	2.75	10.44	28.74
	NORMAL	387.0	9.59	108.46	385.71	-9.75	22.56	24.57	4.64	4.41	-9.34	340.38
	NORMAL	417.0	10.47	105.91	415.25	-11.28	27.56	29.78	3.29	2.93	-8.50	331.96
	NORMAL	477.0	12.93	111.88	474.00	-15.28	39.03	41.91	4.56	4.10	9.95	29.15
	NORMAL	507.0	14.08	109.60	503.17	-17.76	45.58	48.91	4.22	3.83	-7.60	334.04
	NORMAL	536.0	15.31	112.41	531.22	-20.40	52.45	56.27	4.90	4.24	9.69	31.46
	NORMAL	568.0	16.28	114.52	562.01	-23.87	60.43	64.97	3.52	3.03	6.59	31.65
	NORMAL	598.0	17.07	112.41	590.75	-27.29	68.33	73.58	3.32	2.63	-7.03	321.52
	NORMAL	627.0	18.04	113.91	618.40	-30.74	76.37	82.32	3.69	3.34	5.17	25.72
	NORMAL	660.0	19.53	111.88	649.64	-34.86	86.16	92.95	4.93	4.52	-6.15	335.35
	NORMAL	690.0	20.85	112.68	677.80	-38.79	95.74	103.30	4.50	4.40	2.67	12.19

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 (°)
8/23/2011	NORMAL	719.0	21.82	113.73	704.81	-42.95	105.43	113.85	3.59	3.34	3.62	21.99
	NORMAL	734.0	22.15	112.80	718.72	-45.17	110.59	119.46	3.20	2.20	-6.20	313.03
	NORMAL	764.0	23.32	111.46	746.39	-49.53	121.33	131.05	4.26	3.90	-4.47	335.51
	NORMAL	793.0	24.33	110.74	772.92	-53.75	132.26	142.77	3.62	3.48	-2.48	343.61
	NORMAL	825.0	25.68	110.74	801.92	-58.54	144.91	156.29	4.22	4.22	0.00	0.00
	NORMAL	855.0	26.78	111.44	828.83	-63.31	157.28	169.55	3.81	3.67	2.33	16.02
	NORMAL	884.0	27.58	112.41	854.62	-68.26	169.57	182.79	3.15	2.76	3.34	29.41
	NORMAL	915.0	28.58	113.47	881.97	-73.95	183.01	197.38	3.60	3.23	3.42	26.99
	NORMAL	946.0	29.86	112.43	909.03	-79.84	196.94	212.51	4.44	4.13	-3.35	337.91
	NORMAL	975.0	30.95	112.06	934.04	-85.40	210.53	227.19	3.81	3.76	-1.28	350.09
	NORMAL	1,007.0	31.74	113.38	961.37	-91.83	225.88	243.83	3.27	2.47	4.13	41.56
	NORMAL	1,038.0	32.54	113.50	987.62	-98.39	241.01	260.32	2.59	2.58	0.39	4.61
	NORMAL	1,067.0	33.33	113.11	1,011.96	-104.63	255.49	276.08	2.82	2.72	-1.34	344.81
	NORMAL	1,099.0	34.12	112.15	1,038.57	-111.46	271.89	293.85	2.98	2.47	-3.00	325.59
	NORMAL	1,131.0	35.61	110.57	1,064.83	-118.12	288.93	312.14	5.44	4.66	-4.94	328.13
	NORMAL	1,161.0	36.89	110.95	1,089.02	-124.41	305.51	329.87	4.33	4.27	1.27	10.11
	NORMAL	1,194.0	37.99	110.92	1,115.22	-131.58	324.25	349.93	3.33	3.33	-0.09	359.04
	NORMAL	1,225.0	38.57	111.13	1,139.56	-138.47	342.18	369.13	1.92	1.87	0.68	12.72
	NORMAL	1,256.0	39.25	109.79	1,163.68	-145.27	360.42	388.59	3.49	2.19	-4.32	308.41
	NORMAL	1,287.0	40.36	110.48	1,187.50	-152.10	379.05	408.43	3.85	3.58	2.23	21.97
	NORMAL	1,341.0	42.12	110.57	1,228.10	-164.59	412.39	444.01	3.26	3.26	0.17	1.96
	NORMAL	1,398.0	42.12	110.57	1,270.38	-178.02	448.18	482.23	0.00	0.00	0.00	0.00
8/24/2011	NORMAL	1,444.0	42.38	110.70	1,304.43	-188.92	477.12	513.15	0.60	0.57	0.28	18.63
	NORMAL	1,539.0	42.48	112.21	1,374.55	-212.36	536.77	577.24	1.08	0.11	1.59	84.95
	NORMAL	1,633.0	42.91	111.00	1,443.64	-235.83	596.03	640.97	0.99	0.46	-1.29	297.21
	NORMAL	1,728.0	40.89	110.95	1,514.34	-258.54	655.27	704.40	2.13	-2.13	-0.05	180.93
	NORMAL	1,822.0	41.13	112.28	1,585.28	-281.26	712.61	766.08	0.96	0.26	1.41	75.13
	NORMAL	1,917.0	40.71	113.91	1,657.06	-305.66	769.85	828.29	1.21	-0.44	1.72	112.09
	NORMAL	2,011.0	40.38	112.85	1,728.50	-329.91	825.93	889.38	0.81	-0.35	-1.13	244.01
	NORMAL	2,105.0	41.05	114.39	1,799.75	-354.48	882.10	950.66	1.28	0.71	1.64	56.88
	NORMAL	2,200.0	39.57	113.47	1,872.19	-379.42	938.27	1,012.08	1.68	-1.56	-0.97	201.56
8/25/2011	NORMAL	2,294.0	41.42	113.47	1,943.67	-403.73	994.26	1,073.10	1.97	1.97	0.00	0.00
	NORMAL	2,389.0	42.38	112.91	2,014.38	-428.71	1,052.58	1,136.53	1.08	1.01	-0.59	338.51
	NORMAL	2,483.0	42.39	111.59	2,083.81	-452.70	1,111.23	1,199.90	0.95	0.01	-1.40	270.16
	NORMAL	2,578.0	41.63	111.38	2,154.40	-475.99	1,170.39	1,263.47	0.81	-0.80	-0.22	190.40
	NORMAL	2,672.0	41.51	110.79	2,224.72	-498.42	1,228.58	1,325.84	0.44	-0.13	-0.63	252.74
	NORMAL	2,767.0	41.05	112.00	2,296.12	-521.28	1,286.94	1,388.50	0.97	-0.48	1.27	120.41
	NORMAL	2,861.0	40.55	111.43	2,367.27	-544.01	1,344.00	1,449.92	0.66	-0.53	-0.61	216.47
	NORMAL	2,956.0	41.10	111.10	2,439.16	-566.53	1,401.88	1,512.02	0.62	0.58	-0.35	338.46
	NORMAL	3,050.0	41.57	111.24	2,509.74	-588.95	1,459.77	1,574.10	0.51	0.50	0.15	11.18
	NORMAL	3,145.0	41.68	114.34	2,580.76	-613.39	1,517.93	1,637.18	2.17	0.12	3.26	88.10
	NORMAL	3,239.0	42.25	113.08	2,650.66	-638.66	1,575.48	1,700.01	1.08	0.61	-1.34	303.61
	NORMAL	3,334.0	40.54	111.44	2,721.92	-662.47	1,633.61	1,762.82	2.13	-1.80	-1.73	211.77
	NORMAL	3,428.0	40.92	111.99	2,793.15	-685.17	1,690.59	1,824.15	0.56	0.40	0.59	43.57
	NORMAL	3,522.0	41.33	111.88	2,863.96	-708.26	1,747.93	1,885.98	0.44	0.44	-0.12	349.95
	NORMAL	3,617.0	40.80	110.48	2,935.59	-730.81	1,806.12	1,948.37	1.12	-0.56	-1.47	239.52
	NORMAL	3,711.0	41.50	111.88	3,006.37	-753.16	1,863.79	2,010.22	1.23	0.74	1.49	53.30
	NORMAL	3,806.0	42.14	111.62	3,077.17	-776.63	1,922.63	2,073.56	0.70	0.67	-0.27	344.75
	NORMAL	3,900.0	41.88	111.52	3,147.02	-799.76	1,981.13	2,136.47	0.29	-0.28	-0.11	194.40
	NORMAL	3,995.0	42.17	111.37	3,217.59	-823.01	2,040.33	2,200.07	0.32	0.31	-0.16	340.84
	NORMAL	4,089.0	40.22	111.64	3,288.32	-845.71	2,097.93	2,261.97	2.08	-2.07	0.29	174.89
	NORMAL	4,184.0	38.46	110.55	3,361.79	-867.39	2,154.11	2,322.18	1.99	-1.85	-1.15	201.01
8/26/2011	NORMAL	4,278.0	37.34	108.80	3,435.96	-886.84	2,208.47	2,379.87	1.65	-1.19	-1.86	223.14
	NORMAL	4,373.0	36.41	110.79	3,511.96	-906.13	2,262.10	2,436.83	1.59	-0.98	2.09	128.70
	NORMAL	4,467.0	34.86	112.82	3,588.36	-926.45	2,312.95	2,491.59	2.07	-1.65	2.16	143.48
	NORMAL	4,562.0	34.51	112.82	3,666.47	-947.42	2,362.78	2,545.64	0.37	-0.37	0.00	180.00
	NORMAL	4,656.0	32.63	111.21	3,744.79	-966.92	2,410.96	2,597.61	2.21	-2.00	-1.71	204.67

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 (°)
8/26/2011	NORMAL	4,751.0	30.12	111.72	3,825.90	-985.01	2,456.98	2,647.07	2.66	-2.64	0.54	174.18
	NORMAL	4,845.0	29.05	109.82	3,907.64	-1,001.48	2,500.37	2,693.46	1.51	-1.14	-2.02	220.42
	NORMAL	4,940.0	26.49	113.56	3,991.70	-1,017.77	2,541.50	2,737.70	3.26	-2.69	3.94	147.40
	NORMAL	5,034.0	25.14	110.88	4,076.32	-1,033.27	2,579.37	2,778.62	1.90	-1.44	-2.85	219.64
	NORMAL	5,129.0	24.32	110.95	4,162.61	-1,047.45	2,616.50	2,818.35	0.86	-0.86	0.07	177.99
	NORMAL	5,223.0	22.85	111.62	4,248.75	-1,061.10	2,651.54	2,855.96	1.59	-1.56	0.71	169.97
	NORMAL	5,318.0	21.51	113.08	4,336.72	-1,074.72	2,684.71	2,891.82	1.53	-1.41	1.54	158.32
	NORMAL	5,412.0	18.73	112.15	4,424.98	-1,087.17	2,714.55	2,924.15	2.98	-2.96	-0.99	186.13
	NORMAL	5,507.0	18.02	109.92	4,515.13	-1,097.93	2,742.49	2,954.09	1.05	-0.75	-2.35	223.66
	NORMAL	5,602.0	16.56	113.20	4,605.84	-1,108.27	2,768.75	2,982.31	1.85	-1.54	3.45	147.83
	NORMAL	5,696.0	14.60	112.50	4,696.38	-1,118.08	2,792.01	3,007.55	2.09	-2.09	-0.74	185.14
	NORMAL	5,791.0	13.88	113.72	4,788.46	-1,127.25	2,813.51	3,030.91	0.82	-0.76	1.28	157.96
	NORMAL	5,885.0	11.70	113.03	4,880.12	-1,135.51	2,832.60	3,051.72	2.32	-2.32	-0.73	183.67
	NORMAL	5,979.0	9.85	112.67	4,972.46	-1,142.34	2,848.80	3,069.29	1.97	-1.97	-0.38	181.91
8/27/2011	NORMAL	6,074.0	8.75	110.06	5,066.21	-1,147.95	2,863.08	3,084.63	1.24	-1.16	-2.75	199.69
	NORMAL	6,169.0	7.64	102.08	5,160.24	-1,151.75	2,876.05	3,098.08	1.67	-1.17	-8.40	221.80
	NORMAL	6,263.0	5.45	97.56	5,253.63	-1,153.65	2,886.58	3,108.56	2.39	-2.33	-4.81	191.00
8/28/2011	NORMAL	6,358.0	1.58	93.60	5,348.43	-1,154.32	2,892.39	3,114.17	4.08	-4.07	-4.17	181.61
	NORMAL	6,452.0	0.17	180.42	5,442.42	-1,154.55	2,893.66	3,115.45	1.68	-1.50	92.36	173.83
	NORMAL	6,546.0	0.62	215.84	5,536.42	-1,155.10	2,893.36	3,115.38	0.52	0.48	37.68	46.98
	NORMAL	6,641.0	0.62	217.79	5,631.41	-1,155.92	2,892.74	3,115.12	0.02	0.00	2.05	90.97
	NORMAL	6,735.0	0.42	231.10	5,725.41	-1,156.54	2,892.16	3,114.81	0.25	-0.21	14.16	155.41
	NORMAL	6,829.0	0.50	218.68	5,819.40	-1,157.07	2,891.64	3,114.53	0.14	0.09	-13.21	302.42
	NORMAL	6,924.0	0.62	177.27	5,914.40	-1,157.91	2,891.40	3,114.62	0.43	0.13	-43.59	265.12
	NORMAL	7,018.0	0.77	187.93	6,008.39	-1,159.05	2,891.34	3,114.99	0.21	0.16	11.34	46.17
	NORMAL	7,113.0	0.53	355.16	6,103.39	-1,159.24	2,891.22	3,114.95	1.36	-0.25	176.03	174.80
	NORMAL	7,207.0	0.29	15.43	6,197.39	-1,158.58	2,891.24	3,114.72	0.29	-0.26	21.56	158.72
	NORMAL	7,302.0	0.42	190.42	6,292.39	-1,158.69	2,891.24	3,114.76	0.75	0.14	184.20	177.04
	NORMAL	7,396.0	0.97	13.53	6,386.38	-1,158.25	2,891.37	3,114.72	1.48	0.59	-188.18	182.17
	NORMAL	7,491.0	0.88	347.81	6,481.37	-1,156.76	2,891.40	3,114.19	0.44	-0.09	-27.07	245.11
	NORMAL	7,585.0	0.67	329.08	6,575.36	-1,155.58	2,890.97	3,113.34	0.35	-0.22	-19.93	221.23
	NORMAL	7,679.0	0.26	351.03	6,669.36	-1,154.90	2,890.65	3,112.80	0.47	-0.44	23.35	167.23
	NORMAL	7,774.0	0.14	313.83	6,764.36	-1,154.61	2,890.53	3,112.58	0.18	-0.13	-39.16	209.69
	NORMAL	7,868.0	0.44	221.42	6,858.36	-1,154.80	2,890.21	3,112.35	0.50	0.32	-98.31	250.17
	NORMAL	7,963.0	0.81	210.98	6,953.35	-1,155.65	2,889.62	3,112.12	0.41	0.39	-10.99	337.63
	NORMAL	8,058.0	1.21	233.12	7,048.34	-1,156.82	2,888.48	3,111.50	0.58	0.42	23.31	55.72
	NORMAL	8,152.0	1.01	224.65	7,142.32	-1,158.01	2,887.10	3,110.67	0.27	-0.21	-9.01	215.18
8/29/2011	NORMAL	8,237.0	1.34	229.99	7,227.30	-1,159.18	2,885.81	3,109.91	0.41	0.39	6.28	21.04
	NORMAL	8,295.0	1.34	229.99	7,285.29	-1,160.05	2,884.77	3,109.28	0.00	0.00	0.00	0.00