

1 General

1.1 Customer Information

Company	PICEANCE VLY
Representative	
Address	

1.2 Well Information

Well	GM 22-26	Wellbore No.	
Well Name	GM 22-26	Common Name	GM 22-26
Project	GV 27-06S-096W	Site	MV 23-27 Pad
Vertical Section	105.16 (°)	North Reference	True
Azimuth		Origin E/W	
Origin N/S		UWI	GM 22-26
Spud Date	7/30/2011		
Active Datum	KB @5,794.0ft (above Mean Sea Level)		

2 Survey Name

2.1 Survey Name: Survey #1

Survey Name	Survey #1	Company	SCIENTIFIC
Started	7/30/2011	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 (°)
7/30/2011	Tie On	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/2011	NORMAL	80.0	0.26	107.23	80.00	-0.05	0.17	0.18	0.33	0.33	0.00	107.23
	NORMAL	110.0	1.50	87.71	110.00	-0.06	0.63	0.62	4.19	4.13	-65.07	336.52
	NORMAL	141.0	2.11	110.57	140.98	-0.24	1.57	1.58	3.01	1.97	73.74	61.53
	NORMAL	171.0	2.20	120.32	170.96	-0.73	2.58	2.68	1.26	0.30	32.50	81.11
	NORMAL	202.0	3.43	116.46	201.92	-1.44	3.93	4.17	4.01	3.97	-12.45	349.31
	NORMAL	232.0	4.13	114.35	231.86	-2.29	5.72	6.12	2.38	2.33	-7.03	347.71
	NORMAL	263.0	5.10	116.72	262.76	-3.37	7.96	8.57	3.19	3.13	7.65	12.30
	NORMAL	293.0	6.07	113.29	292.61	-4.59	10.61	11.44	3.42	3.23	-11.43	339.30
	NORMAL	323.0	6.77	106.88	322.42	-5.73	13.76	14.78	3.34	2.33	-21.37	311.11
	NORMAL	354.0	7.21	108.37	353.19	-6.88	17.36	18.55	1.54	1.42	4.81	23.14
	NORMAL	384.0	8.71	107.40	382.90	-8.15	21.31	22.70	5.02	5.00	-3.23	354.40
	NORMAL	415.0	9.85	103.54	413.50	-9.47	26.13	27.70	4.19	3.68	-12.45	329.45
	NORMAL	445.0	10.56	98.88	443.02	-10.50	31.34	32.99	3.63	2.37	-15.53	308.39
	NORMAL	475.0	11.44	100.20	472.47	-11.45	36.98	38.69	3.05	2.93	4.40	16.62
	NORMAL	505.0	12.58	101.34	501.82	-12.62	43.11	44.91	3.88	3.80	3.80	12.31
	NORMAL	536.0	13.46	103.01	532.02	-14.09	49.94	51.89	3.09	2.84	5.39	23.96
	NORMAL	566.0	14.43	103.10	561.13	-15.73	56.98	59.11	3.23	3.23	0.30	1.32
	NORMAL	596.0	15.22	104.59	590.13	-17.57	64.43	66.79	2.92	2.63	4.97	26.48
	NORMAL	626.0	16.45	105.64	619.00	-19.70	72.34	74.97	4.21	4.10	3.50	13.62
	NORMAL	671.0	18.03	105.30	661.97	-23.26	85.19	88.31	3.52	3.51	-0.76	356.19

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 (°)
7/30/2011	NORMAL	702.0	18.96	105.97	691.37	-25.91	94.66	98.14	3.08	3.00	2.16	13.19
	NORMAL	732.0	19.96	106.97	719.66	-28.75	104.24	108.13	3.51	3.33	3.33	18.90
	NORMAL	762.0	21.28	106.53	747.73	-31.79	114.36	118.69	4.43	4.40	-1.47	353.10
	NORMAL	792.0	22.07	106.18	775.61	-34.91	124.99	129.77	2.67	2.63	-1.17	350.54
	NORMAL	823.0	23.40	104.52	804.20	-38.08	136.54	141.75	4.76	4.29	-5.35	333.48
	NORMAL	852.0	24.34	104.72	830.72	-41.04	147.90	153.48	3.25	3.24	0.69	5.01
	NORMAL	882.0	24.71	104.69	858.02	-44.20	159.94	165.94	1.23	1.23	-0.10	358.06
	NORMAL	913.0	25.59	105.74	886.08	-47.66	172.66	179.11	3.18	2.84	3.39	27.37
	NORMAL	944.0	26.63	106.79	913.91	-51.48	185.75	192.75	3.67	3.35	3.39	24.43
7/31/2011	NORMAL	975.0	28.04	106.10	941.45	-55.51	199.40	206.98	4.66	4.55	-2.23	347.03
	NORMAL	1,005.0	29.07	106.05	967.80	-59.48	213.18	221.32	3.43	3.43	-0.17	358.65
	NORMAL	1,036.0	30.34	105.04	994.73	-63.59	227.98	236.68	4.40	4.10	-3.26	338.05
	NORMAL	1,067.0	30.86	104.60	1,021.41	-67.63	243.24	252.46	1.83	1.68	-1.42	336.51
	NORMAL	1,098.0	32.03	102.78	1,047.86	-71.45	258.95	268.62	4.86	3.77	-5.87	320.16
	NORMAL	1,129.0	32.98	102.75	1,074.00	-75.13	275.20	285.27	3.06	3.06	-0.10	359.02
	NORMAL	1,161.0	33.33	102.75	1,100.79	-79.00	292.27	302.75	1.09	1.09	0.00	0.00
	NORMAL	1,192.0	33.68	103.98	1,126.64	-82.95	308.91	319.86	2.46	1.13	3.97	63.24
	NORMAL	1,223.0	34.56	104.42	1,152.31	-87.22	325.77	337.24	2.95	2.84	1.42	15.85
	NORMAL	1,256.0	35.61	104.07	1,179.31	-91.88	344.16	356.21	3.24	3.18	-1.06	349.01
	NORMAL	1,288.0	36.58	105.57	1,205.17	-96.71	362.38	375.06	4.10	3.03	4.69	42.94
	NORMAL	1,320.0	37.90	105.83	1,230.64	-101.95	381.02	394.42	4.15	4.13	0.81	6.90
	NORMAL	1,351.0	38.60	106.80	1,254.99	-107.34	399.44	413.61	2.98	2.26	3.13	41.01
	NORMAL	1,381.0	40.01	105.92	1,278.20	-112.69	417.67	432.61	5.05	4.70	-2.93	338.09
8/1/2011	NORMAL	1,475.0	41.24	103.63	1,349.55	-128.28	476.85	493.80	2.06	1.31	-2.44	308.65
	NORMAL	1,539.0	41.06	103.02	1,397.74	-137.99	517.83	535.89	0.69	-0.28	-0.95	245.62
	NORMAL	1,633.0	40.71	104.07	1,468.81	-152.40	577.64	597.39	0.82	-0.37	1.12	117.38
	NORMAL	1,728.0	40.16	104.37	1,541.11	-167.53	637.37	659.00	0.61	-0.58	0.32	160.63
	NORMAL	1,822.0	40.63	105.13	1,612.70	-183.04	696.28	719.91	0.72	0.50	0.81	46.63
	NORMAL	1,917.0	40.80	106.18	1,684.71	-199.77	755.94	781.88	0.74	0.18	1.11	76.46
	NORMAL	2,011.0	40.80	105.92	1,755.87	-216.75	814.97	843.29	0.18	0.00	-0.28	269.90
	NORMAL	2,105.0	40.54	105.04	1,827.17	-233.10	874.01	904.55	0.67	-0.28	-0.94	245.28
	NORMAL	2,200.0	40.60	103.81	1,899.33	-248.49	933.84	966.33	0.84	0.06	-1.29	273.82
	NORMAL	2,294.0	40.89	106.03	1,970.55	-264.29	993.12	1,027.67	1.57	0.31	2.36	79.52
	NORMAL	2,389.0	40.94	107.14	2,042.34	-282.05	1,052.75	1,089.87	0.77	0.05	1.17	86.49
	NORMAL	2,483.0	40.31	107.72	2,113.69	-300.38	1,111.14	1,151.03	0.78	-0.67	0.62	149.28
	NORMAL	2,578.0	40.55	106.07	2,186.00	-318.28	1,170.09	1,212.60	1.15	0.25	-1.74	282.01
	NORMAL	2,672.0	41.24	105.85	2,257.06	-335.20	1,229.25	1,274.13	0.75	0.73	-0.23	348.13
	NORMAL	2,767.0	40.59	105.61	2,328.85	-352.07	1,289.14	1,336.35	0.70	-0.68	-0.25	193.50
	NORMAL	2,861.0	41.41	104.63	2,399.79	-368.15	1,348.68	1,398.02	1.11	0.87	-1.04	321.53
	NORMAL	2,956.0	41.25	104.07	2,471.13	-383.70	1,409.46	1,460.75	0.42	-0.17	-0.59	246.39
	NORMAL	3,050.0	40.59	104.66	2,542.16	-398.97	1,469.10	1,522.31	0.81	-0.70	0.63	149.87
	NORMAL	3,145.0	40.97	103.85	2,614.09	-414.25	1,529.24	1,584.35	0.69	0.40	-0.85	305.38
8/2/2011	NORMAL	3,239.0	41.00	105.68	2,685.05	-429.96	1,588.85	1,646.00	1.28	0.03	1.95	89.26
	NORMAL	3,334.0	40.38	104.48	2,757.09	-446.08	1,648.65	1,707.93	1.05	-0.65	-1.26	231.15
	NORMAL	3,428.0	40.47	105.83	2,828.65	-462.01	1,707.48	1,768.88	0.94	0.10	1.44	84.64
	NORMAL	3,522.0	40.54	104.16	2,900.12	-477.81	1,766.45	1,829.93	1.16	0.07	-1.78	273.06
	NORMAL	3,617.0	40.49	106.79	2,972.35	-494.27	1,825.92	1,891.64	1.80	-0.05	2.77	92.68
	NORMAL	3,711.0	40.27	106.09	3,043.96	-511.51	1,884.33	1,952.52	0.54	-0.23	-0.74	243.85
	NORMAL	3,806.0	39.83	106.18	3,116.68	-528.49	1,943.05	2,013.64	0.47	-0.46	0.09	172.54
	NORMAL	3,900.0	40.54	106.09	3,188.49	-545.35	2,001.31	2,074.28	0.76	0.76	-0.10	355.29
	NORMAL	3,995.0	40.03	105.89	3,260.96	-562.27	2,060.36	2,135.70	0.55	-0.54	-0.21	194.15
	NORMAL	4,089.0	38.88	105.78	3,333.54	-578.57	2,117.83	2,195.43	1.23	-1.22	-0.12	183.44
	NORMAL	4,183.0	37.64	106.80	3,407.35	-594.89	2,173.70	2,253.62	1.48	-1.32	1.09	153.41
	NORMAL	4,278.0	37.17	103.85	3,482.82	-610.15	2,229.34	2,311.32	1.95	-0.49	-3.11	254.13
	NORMAL	4,373.0	37.01	103.41	3,558.60	-623.65	2,285.01	2,368.59	0.33	-0.17	-0.46	238.74
	NORMAL	4,467.0	34.91	104.07	3,634.68	-636.75	2,338.63	2,423.77	2.27	-2.23	0.70	169.81
	NORMAL	4,562.0	32.75	103.96	3,713.59	-649.56	2,389.94	2,476.64	2.27	-2.27	-0.12	181.58

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 (°)
8/2/2011	NORMAL	4,656.0	31.61	103.37	3,793.15	-661.39	2,438.59	2,526.69	1.26	-1.21	-0.63	195.16
	NORMAL	4,751.0	29.51	105.59	3,874.95	-673.44	2,485.35	2,574.97	2.51	-2.21	2.34	152.69
	NORMAL	4,845.0	27.46	104.62	3,957.57	-685.13	2,528.63	2,619.80	2.24	-2.18	-1.03	192.29
	NORMAL	4,940.0	26.65	104.25	4,042.17	-695.90	2,570.47	2,663.01	0.87	-0.85	-0.39	191.57
	NORMAL	5,035.0	24.13	104.27	4,127.99	-705.93	2,609.95	2,703.73	2.65	-2.65	0.02	179.81
	NORMAL	5,129.0	23.13	103.24	4,214.11	-714.90	2,646.54	2,741.40	1.15	-1.06	-1.10	201.96
	NORMAL	5,223.0	20.63	102.98	4,301.33	-722.85	2,680.66	2,776.40	2.66	-2.66	-0.28	182.10
8/3/2011	NORMAL	5,318.0	17.77	104.33	4,391.03	-730.20	2,711.02	2,807.63	3.05	-3.01	1.42	171.81
	NORMAL	5,412.0	16.44	104.07	4,480.87	-736.98	2,737.82	2,835.27	1.42	-1.41	-0.28	183.17
	NORMAL	5,507.0	16.06	103.71	4,572.08	-743.36	2,763.62	2,861.85	0.41	-0.40	-0.38	194.67
	NORMAL	5,602.0	13.18	103.23	4,663.99	-748.96	2,786.94	2,885.81	3.03	-3.03	-0.51	182.18
	NORMAL	5,696.0	12.22	102.23	4,755.69	-753.52	2,807.09	2,906.46	1.05	-1.02	-1.06	192.41
	NORMAL	5,791.0	11.96	100.41	4,848.59	-757.43	2,826.60	2,926.31	0.49	-0.27	-1.92	234.82
	NORMAL	5,885.0	10.99	101.26	4,940.71	-760.94	2,844.97	2,944.96	1.05	-1.03	0.90	170.53
	NORMAL	5,979.0	9.14	102.25	5,033.26	-764.27	2,861.05	2,961.35	1.98	-1.97	1.05	175.14
	NORMAL	6,074.0	7.08	106.62	5,127.30	-767.55	2,874.04	2,974.74	2.26	-2.17	4.60	165.49
	NORMAL	6,169.0	6.23	103.75	5,221.66	-770.45	2,884.65	2,985.75	0.96	-0.89	-3.02	199.95
8/4/2011	NORMAL	6,263.0	4.53	86.51	5,315.25	-771.43	2,893.32	2,994.37	2.48	-1.81	-18.34	215.19
	NORMAL	6,358.0	2.26	84.25	5,410.08	-771.02	2,898.92	2,999.67	2.39	-2.39	-2.38	182.25
	NORMAL	6,452.0	0.42	181.22	5,504.05	-771.18	2,900.76	3,001.49	2.50	-1.96	103.16	169.77
	NORMAL	6,546.0	0.53	209.19	5,598.05	-771.90	2,900.54	3,001.46	0.27	0.12	29.76	79.05
	NORMAL	6,641.0	0.54	205.01	5,693.04	-772.69	2,900.14	3,001.28	0.04	0.01	-4.40	282.27
	NORMAL	6,735.0	0.72	224.63	5,787.04	-773.51	2,899.54	3,000.92	0.30	0.19	20.87	60.25
	NORMAL	6,830.0	0.46	215.60	5,882.03	-774.25	2,898.90	3,000.49	0.29	-0.27	-9.51	195.20
	NORMAL	6,924.0	0.17	305.38	5,976.03	-774.47	2,898.56	3,000.23	0.52	-0.31	95.51	159.69
	NORMAL	7,018.0	0.35	137.56	6,070.03	-774.60	2,898.64	3,000.34	0.55	0.19	-178.53	188.21
	NORMAL	7,113.0	0.35	78.19	6,165.03	-774.76	2,899.12	3,000.84	0.36	0.00	-62.49	240.32
	NORMAL	7,207.0	0.44	122.84	6,259.03	-774.89	2,899.71	3,001.44	0.33	0.10	47.50	96.82
	NORMAL	7,302.0	0.54	116.33	6,354.03	-775.29	2,900.41	3,002.23	0.12	0.11	-6.85	327.61
	NORMAL	7,396.0	1.05	117.10	6,448.02	-775.88	2,901.58	3,003.50	0.54	0.54	0.82	1.59
	NORMAL	7,491.0	0.61	173.58	6,543.01	-776.78	2,902.41	3,004.54	0.92	-0.46	59.45	144.51
8/5/2011	NORMAL	7,585.0	0.35	246.89	6,637.00	-777.39	2,902.20	3,004.50	0.65	-0.28	77.99	146.65
	NORMAL	7,680.0	0.50	281.47	6,732.00	-777.42	2,901.53	3,003.86	0.31	0.16	36.40	77.74
	NORMAL	7,774.0	0.60	326.03	6,826.00	-776.93	2,900.85	3,003.08	0.45	0.11	47.40	99.77
	NORMAL	7,869.0	0.68	275.51	6,920.99	-776.46	2,900.01	3,002.15	0.58	0.08	-53.18	252.29
	NORMAL	7,963.0	0.81	263.55	7,014.98	-776.48	2,898.80	3,000.98	0.21	0.14	-12.72	303.81
	NORMAL	8,058.0	0.87	249.48	7,109.97	-776.81	2,897.45	2,999.77	0.23	0.06	-14.81	279.11
	NORMAL	8,152.0	1.08	240.37	7,203.96	-777.50	2,896.01	2,998.56	0.28	0.22	-9.69	318.95
	NORMAL	8,185.0	0.93	254.16	7,236.96	-777.73	2,895.49	2,998.11	0.86	-0.45	41.79	128.58
	NORMAL	8,245.0	0.93	254.16	7,296.95	-777.99	2,894.55	2,997.28	0.00	0.00	0.00	0.00