

1 General

1.1 Customer Information

Company	PICEANCE HL
Representative	Eric Kolstad
Address	1515 Arapahoe St., Suite 1000 Denver, CO 80202

1.2 Well Information

Well	TR 42-34-597	Wellbore No.	
Well Name	CHEVRON TR 42-34-597	Common Name	TR 42-34-597
Project	TR 27-05S-097W	Site	TR 44-27-597 Pad
Vertical Section Azimuth	193.58 (°)	North Reference	True
Origin N/S		Origin E/W	
Spud Date	6/30/2011	UWI	TR 42-34-597
Active Datum	KB @8,402.0ft (above Mean Sea Level)		

2 Survey Name

2.1 Survey Name: Survey #1

Survey Name	Survey #1	Company	
Date Started	6/27/2011	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)	DLS (°/100ft)	Build Rate (°/100ft)	Turn (°/100ft)	TFace (°)
6/27/2011	Tie On	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/2011	NORMAL	74.0	0.26	40.08	74.00	0.13	0.11	-0.15	0.35	0.35	0.00	40.08
	NORMAL	165.0	1.23	195.64	164.99	-0.65	-0.02	0.64	1.62	1.07	170.95	159.75
	NORMAL	257.0	3.26	180.79	256.92	-4.22	-0.32	4.18	2.28	2.21	-16.14	336.50
	NORMAL	349.0	5.45	192.04	348.65	-11.11	-1.27	11.10	2.54	2.38	12.23	26.98
	NORMAL	444.0	8.40	196.90	442.95	-22.16	-4.23	22.54	3.16	3.11	5.12	13.66
7/1/2011	NORMAL	536.0	11.30	195.80	533.58	-37.27	-8.64	38.26	3.16	3.15	-1.20	355.74
	NORMAL	628.0	12.00	192.50	623.69	-55.28	-13.16	56.83	1.05	0.76	-3.59	314.79
	NORMAL	719.0	13.10	191.10	712.51	-74.64	-17.20	76.59	1.25	1.21	-1.54	343.86
	NORMAL	812.0	14.60	189.50	802.80	-96.54	-21.16	98.81	1.66	1.61	-1.72	344.90
	NORMAL	903.0	15.60	191.10	890.66	-119.86	-25.41	122.48	1.19	1.10	1.76	23.40
	NORMAL	995.0	17.20	192.30	978.92	-145.29	-30.69	148.44	1.78	1.74	1.30	12.53
	NORMAL	1,091.0	18.80	192.50	1,070.21	-174.26	-37.06	178.09	1.67	1.67	0.21	2.31
	NORMAL	1,186.0	20.40	194.60	1,159.71	-205.23	-44.55	209.96	1.84	1.68	2.21	24.76
	NORMAL	1,282.0	21.50	193.70	1,249.36	-238.52	-52.93	244.28	1.19	1.15	-0.94	343.27
	NORMAL	1,377.0	22.50	191.50	1,337.44	-273.24	-60.68	279.85	1.36	1.05	-2.32	319.48
	NORMAL	1,473.0	22.00	192.90	1,426.30	-308.77	-68.36	316.19	0.76	-0.52	1.46	133.97
	NORMAL	1,568.0	19.80	192.70	1,515.04	-341.82	-75.87	350.08	2.32	-2.32	-0.21	181.76
	NORMAL	1,664.0	18.50	195.50	1,605.73	-372.36	-83.51	381.56	1.66	-1.35	2.92	146.07
	NORMAL	1,759.0	19.10	196.60	1,695.66	-401.78	-91.98	412.14	0.73	0.63	1.16	31.10

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 (°)
7/1/2011	NORMAL	1,855.0	19.40	194.10	1,786.29	-432.29	-100.35	443.77	0.91	0.31	-2.60	288.82
	NORMAL	1,950.0	19.50	194.60	1,875.87	-462.94	-108.19	475.40	0.20	0.11	0.53	59.25
	NORMAL	2,046.0	20.30	193.40	1,966.14	-494.64	-116.09	508.07	0.94	0.83	-1.25	332.39
7/2/2011	NORMAL	2,140.0	21.80	193.70	2,053.86	-527.47	-124.00	541.84	1.60	1.60	0.32	4.25
	NORMAL	2,235.0	21.70	191.80	2,142.10	-561.96	-131.03	577.01	0.75	-0.11	-2.00	261.03
	NORMAL	2,329.0	21.00	193.20	2,229.65	-595.37	-138.43	611.23	0.92	-0.74	1.49	144.59
	NORMAL	2,423.0	20.70	193.00	2,317.49	-627.95	-146.01	644.68	0.33	-0.32	-0.21	193.25
	NORMAL	2,518.0	21.50	195.00	2,406.13	-661.13	-154.30	678.87	1.13	0.84	2.11	42.92
	NORMAL	2,612.0	21.30	196.20	2,493.65	-694.16	-163.52	713.15	0.51	-0.21	1.28	115.11
	NORMAL	2,706.0	21.10	196.90	2,581.28	-726.75	-173.20	747.10	0.34	-0.21	0.74	128.64
	NORMAL	2,800.0	21.50	196.00	2,668.86	-759.49	-182.87	781.20	0.55	0.43	-0.96	320.32
	NORMAL	2,895.0	21.40	196.90	2,757.28	-792.81	-192.70	815.89	0.36	-0.11	0.95	107.32
7/4/2011	NORMAL	2,975.0	21.30	196.90	2,831.79	-820.68	-201.17	844.97	0.12	-0.12	0.00	180.00
	NORMAL	3,081.0	19.10	197.10	2,931.27	-855.68	-211.87	881.50	2.08	-2.08	0.19	178.30
	NORMAL	3,176.0	16.40	191.10	3,021.74	-883.70	-219.02	910.42	3.43	-2.84	-6.32	211.29
	NORMAL	3,272.0	17.70	191.60	3,113.52	-911.30	-224.57	938.55	1.36	1.35	0.52	6.67
	NORMAL	3,368.0	18.20	193.90	3,204.85	-940.15	-231.10	968.13	0.90	0.52	2.40	55.90
	NORMAL	3,463.0	20.00	199.40	3,294.63	-969.88	-240.06	999.13	2.68	1.89	5.79	47.62
	NORMAL	3,559.0	20.30	194.10	3,384.76	-1,001.52	-249.57	1,032.12	1.93	0.31	-5.52	276.84
	NORMAL	3,654.0	20.00	189.90	3,473.95	-1,033.51	-256.38	1,064.81	1.56	-0.32	-4.42	256.32
	NORMAL	3,750.0	21.00	191.50	3,563.87	-1,066.54	-262.63	1,098.39	1.19	1.04	1.67	30.01
7/5/2011	NORMAL	3,845.0	21.20	192.00	3,652.50	-1,100.02	-269.60	1,132.57	0.28	0.21	0.53	42.22
	NORMAL	3,941.0	21.50	192.70	3,741.91	-1,134.16	-277.08	1,167.51	0.41	0.31	0.73	40.67
	NORMAL	4,036.0	20.90	191.60	3,830.48	-1,167.74	-284.31	1,201.85	0.76	-0.63	-1.16	213.03
	NORMAL	4,132.0	22.70	193.90	3,919.61	-1,202.50	-292.20	1,237.49	2.08	1.88	2.40	26.46
	NORMAL	4,228.0	23.80	195.50	4,007.82	-1,239.15	-301.83	1,275.38	1.32	1.15	1.67	30.60
	NORMAL	4,323.0	23.30	193.40	4,094.91	-1,275.90	-311.31	1,313.32	1.03	-0.53	-2.21	238.25
	NORMAL	4,419.0	22.00	192.30	4,183.50	-1,311.94	-319.54	1,350.29	1.42	-1.35	-1.15	197.54
	NORMAL	4,515.0	20.80	191.80	4,272.88	-1,346.19	-326.86	1,385.30	1.26	-1.25	-0.52	188.41
	NORMAL	4,610.0	19.40	192.50	4,362.09	-1,378.11	-333.72	1,417.94	1.50	-1.47	0.74	170.58
7/6/2011	NORMAL	4,705.0	17.50	191.80	4,452.20	-1,407.49	-340.06	1,447.99	2.01	-2.00	-0.74	186.32
	NORMAL	4,801.0	17.90	194.10	4,543.66	-1,435.93	-346.60	1,477.17	0.84	0.42	2.40	61.33
	NORMAL	4,897.0	16.90	192.70	4,635.27	-1,463.85	-353.26	1,505.88	1.13	-1.04	-1.46	202.05
	NORMAL	4,992.0	15.50	191.50	4,726.49	-1,489.77	-358.83	1,532.37	1.52	-1.47	-1.26	192.87
	NORMAL	5,088.0	14.20	190.80	4,819.28	-1,513.90	-363.59	1,556.95	1.37	-1.35	-0.73	187.52
	NORMAL	5,184.0	14.20	193.00	4,912.35	-1,536.94	-368.45	1,580.49	0.56	0.00	2.29	91.07
	NORMAL	5,279.0	12.80	192.50	5,004.73	-1,558.57	-373.35	1,602.66	1.48	-1.47	-0.53	184.52
	NORMAL	5,375.0	11.60	193.40	5,098.56	-1,578.34	-377.89	1,622.95	1.27	-1.25	0.94	171.43
	NORMAL	5,471.0	10.70	192.90	5,192.74	-1,596.42	-382.11	1,641.51	0.94	-0.94	-0.52	185.89
7/6/2011	NORMAL	5,566.0	9.80	192.00	5,286.23	-1,612.92	-385.76	1,658.41	0.96	-0.95	-0.95	189.65
	NORMAL	5,662.0	10.30	187.80	5,380.75	-1,629.42	-388.63	1,675.12	0.92	0.52	-4.38	302.22
	NORMAL	5,759.0	8.00	182.10	5,476.51	-1,644.76	-390.05	1,690.36	2.55	-2.37	-5.88	198.71
	NORMAL	5,855.0	5.00	196.40	5,571.91	-1,655.39	-391.47	1,701.02	3.53	-3.13	14.90	158.63
	NORMAL	5,950.0	4.00	194.30	5,666.61	-1,662.57	-393.45	1,708.47	1.07	-1.05	-2.21	188.31
	NORMAL	6,046.0	1.60	209.70	5,762.49	-1,666.98	-394.94	1,713.11	2.60	-2.50	16.04	170.19
	NORMAL	6,142.0	1.20	352.10	5,858.48	-1,667.15	-395.75	1,713.46	2.76	-0.42	148.33	163.98
	NORMAL	6,237.0	1.40	355.50	5,953.46	-1,665.00	-395.97	1,711.43	0.23	0.21	3.58	22.80
	NORMAL	6,333.0	1.60	346.00	6,049.42	-1,662.53	-396.39	1,709.13	0.33	0.21	-9.90	304.00
7/6/2011	NORMAL	6,523.0	1.30	328.00	6,239.36	-1,657.86	-398.24	1,705.02	0.43	-0.32	-11.37	217.02
	NORMAL	6,619.0	1.10	315.00	6,335.34	-1,656.29	-399.47	1,703.78	0.35	-0.21	-13.54	227.32
	NORMAL	6,715.0	1.50	342.80	6,431.31	-1,654.43	-400.49	1,702.22	0.77	0.42	28.96	72.03
	NORMAL	6,810.0	1.10	327.00	6,526.29	-1,652.48	-401.36	1,700.52	0.56	-0.42	-16.63	214.15
	NORMAL	6,903.0	1.10	46.30	6,619.27	-1,651.12	-401.20	1,699.16	1.51	0.00	85.27	129.64
	NORMAL	7,001.0	0.30	316.10	6,717.27	-1,650.28	-400.70	1,698.23	1.16	-0.82	-92.04	195.24
	NORMAL	7,192.0	1.10	298.20	6,813.26	-1,649.90	-401.77	1,698.11	0.90	0.83	-35.00	315.35
	NORMAL	7,383.0	1.10	282.50	6,908.24	-1,649.27	-403.46	1,697.89	0.32	0.00	16.53	97.85
	NORMAL	7,574.0	1.10	272.00	7,003.22	-1,648.54	-404.55	1,697.57	0.32	0.00	16.53	97.85

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 (°)
7/7/2011	NORMAL	7,288.0	1.10	299.40	7,004.23	-1,648.38	-405.08	1,697.41	0.02	0.00	1.25	90.60
	NORMAL	7,383.0	0.60	260.50	7,099.22	-1,648.01	-406.36	1,697.36	0.78	-0.53	-40.95	210.76
	NORMAL	7,478.0	1.20	101.50	7,194.21	-1,648.29	-405.88	1,697.51	1.87	0.63	-167.37	194.04
	NORMAL	7,572.0	0.70	113.80	7,288.20	-1,648.72	-404.39	1,697.58	0.57	-0.53	13.09	163.88
	NORMAL	7,668.0	0.40	80.20	7,384.19	-1,648.90	-403.52	1,697.55	0.45	-0.31	-35.00	211.11
	NORMAL	7,762.0	0.30	303.80	7,478.19	-1,648.71	-403.40	1,697.34	0.69	-0.11	-145.11	198.53
	NORMAL	7,856.0	0.50	282.90	7,572.19	-1,648.48	-404.01	1,697.26	0.26	0.21	-22.23	313.13
	NORMAL	7,951.0	1.10	262.50	7,667.18	-1,648.51	-405.31	1,697.59	0.69	0.63	-21.47	324.17
7/8/2011	NORMAL	8,047.0	1.80	253.50	7,763.15	-1,649.06	-407.67	1,698.68	0.76	0.73	-9.37	337.44
7/10/2011	NORMAL	8,129.0	1.49	233.71	7,845.12	-1,650.05	-409.77	1,700.14	0.78	-0.38	-24.13	231.73
	NORMAL	8,224.0	2.15	207.61	7,940.07	-1,652.36	-411.59	1,702.81	1.10	0.69	-27.47	295.00
	NORMAL	8,320.0	2.50	210.95	8,035.99	-1,655.75	-413.50	1,706.56	0.39	0.36	3.48	22.84
	NORMAL	8,415.0	1.23	181.59	8,130.94	-1,658.55	-414.59	1,709.53	1.63	-1.34	-30.91	202.90
	NORMAL	8,508.0	0.97	122.53	8,223.92	-1,659.97	-413.96	1,710.76	1.19	-0.28	-63.51	228.69
	NORMAL	8,600.0	1.32	39.74	8,315.91	-1,659.58	-412.62	1,710.06	1.67	0.38	-89.99	238.45
	NORMAL	8,693.0	0.83	44.92	8,408.90	-1,658.28	-411.46	1,708.53	0.54	-0.53	5.57	171.36
	NORMAL	8,785.0	0.48	280.00	8,500.89	-1,657.74	-411.37	1,707.98	1.27	-0.38	-135.78	199.61
	NORMAL	8,880.0	0.57	345.33	8,595.89	-1,657.21	-411.88	1,707.59	0.60	0.09	68.77	115.05
	NORMAL	8,975.0	1.10	282.58	8,690.88	-1,656.55	-412.89	1,707.19	1.03	0.56	-66.05	266.12
	NORMAL	9,071.0	1.05	271.86	8,786.86	-1,656.33	-414.67	1,707.39	0.22	-0.05	-11.17	250.72
	NORMAL	9,167.0	1.54	257.88	8,882.84	-1,656.57	-416.81	1,708.12	0.60	0.51	-14.56	320.07
	NORMAL	9,195.0	1.93	256.56	8,910.83	-1,656.76	-417.64	1,708.50	1.40	1.39	-4.71	353.49
	NORMAL	9,245.0	1.93	256.56	8,960.80	-1,657.15	-419.28	1,709.27	0.00	0.00	0.00	0.00