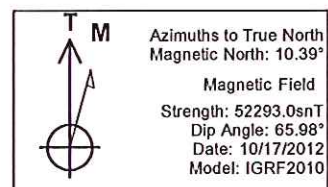
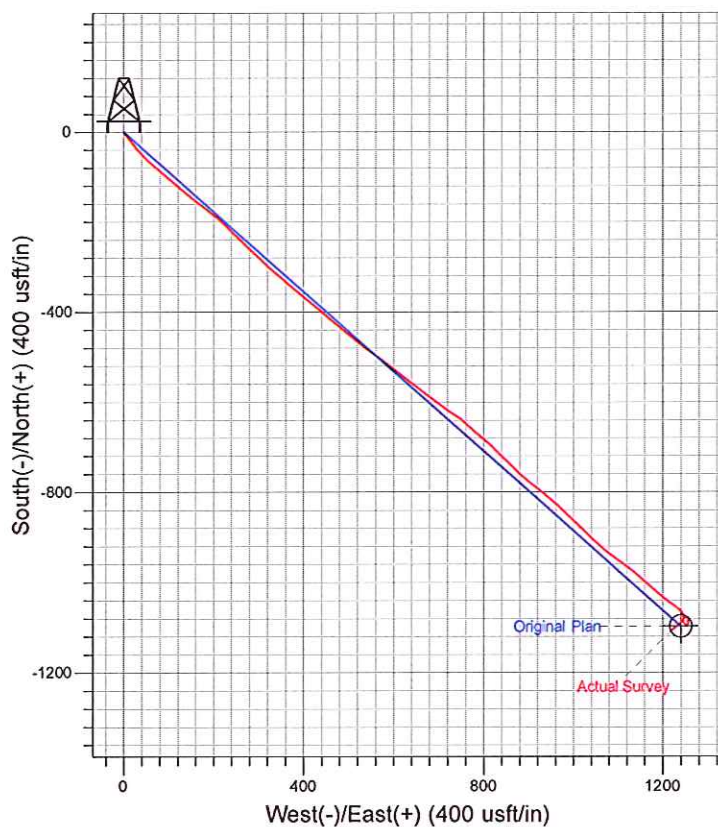
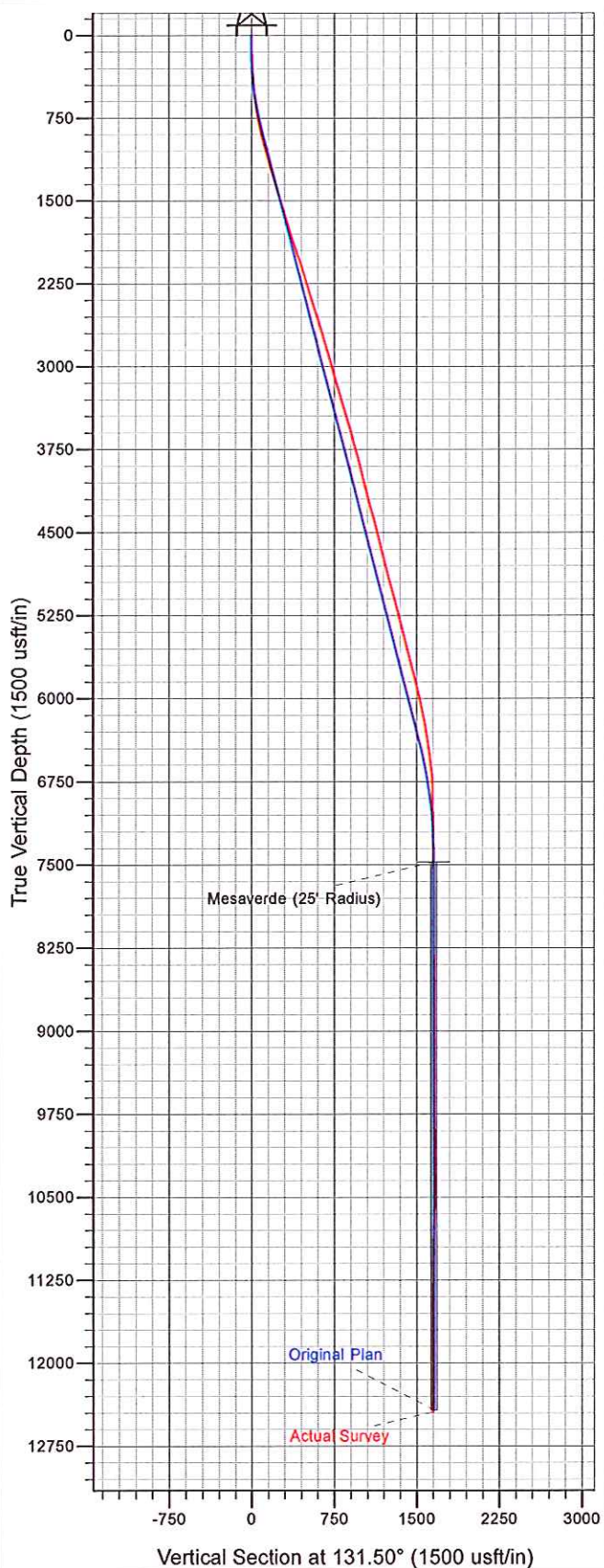




Well Name: RGU 544-36-198
 Surface Location: RGU 33-36-198 Pad
 North American Datum 1983 , US State Plane 1983 . Colorado Central Zone
 Ground Elevation: 6574.00
 +N/-S +E/-W Northing Easting Latitude Longitude Slot
 0.00 0.00 1771039.90 2203518.70 39.91614 -108.33981 B6
 WELL @ 6595.00usft (Original Well Elev)



I 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	RGU 544-36-198	Wellbore No.	
Well Name	FEDERAL RGU 544-36-198	Common Name	RGU 544-36-198
Project	RG 36-01S-098W	Site	RGU 33-36-198 Pad
Vertical Section Azimuth	131.50 (°)	North Reference	True
Origin N/S		Origin E/W	
Spud Date	10/20/2012	UWI	RGU 544-36-198
Active Datum	KB @6,595.0ft (above Mean Sea Level)		

2 Survey Name

2.1 Survey Name: Survey #1

Survey Name	Survey #1	Company	SDI
Date Started	10/20/2012	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 (°)
10/20/2012	Tie On	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/20/2012	NORMAL	340.0	3.17	145.30	339.83	-7.73	5.35	9.13	0.93	0.93	0.00	145.30
	NORMAL	432.0	4.64	144.35	431.61	-12.85	8.97	15.23	1.60	1.60	-1.03	357.0'
	NORMAL	524.0	6.59	141.72	523.16	-20.01	14.41	24.05	2.14	2.12	-2.86	351.17
	NORMAL	616.0	8.36	140.11	614.38	-29.29	21.97	35.86	1.94	1.92	-1.75	352.45
	NORMAL	708.0	10.20	140.91	705.17	-40.75	31.40	50.51	2.00	2.00	0.87	4.4'
	NORMAL	802.0	11.05	134.22	797.56	-53.49	43.10	67.72	1.59	0.90	-7.12	301.25
	NORMAL	897.0	12.75	132.26	890.52	-66.89	57.39	87.30	1.84	1.79	-2.06	345.67
	NORMAL	990.0	14.62	131.20	980.87	-81.52	73.81	109.30	2.03	2.01	-1.14	351.85
	NORMAL	1,084.0	16.55	129.27	1,071.41	-97.81	93.11	134.55	2.13	2.05	-2.05	344.03
	NORMAL	1,178.0	17.41	130.98	1,161.32	-115.51	114.09	161.99	1.06	0.91	1.82	30.96
	NORMAL	1,272.0	17.32	129.75	1,251.03	-133.68	135.46	190.03	0.40	-0.10	-1.31	255.64
	NORMAL	1,366.0	16.53	128.34	1,340.96	-150.92	156.71	217.37	0.95	-0.84	-1.50	206.78
	NORMAL	1,461.0	16.29	126.93	1,432.09	-167.31	177.96	244.15	0.49	-0.25	-1.48	238.26
	NORMAL	1,556.0	16.18	126.85	1,523.30	-183.26	199.20	270.62	0.12	-0.12	-0.08	191.45
10/21/2012	NORMAL	1,650.0	16.80	134.14	1,613.45	-200.57	219.43	297.25	2.30	0.66	7.76	76.84
	NORMAL	1,744.0	16.88	134.14	1,703.41	-219.54	238.98	324.45	0.09	0.09	0.00	0.00
	NORMAL	1,838.0	17.71	133.98	1,793.16	-238.97	259.06	352.37	0.88	0.88	-0.17	356.64
	NORMAL	1,932.0	18.73	135.02	1,882.45	-259.57	280.01	381.72	1.14	1.09	1.11	18.18
	NORMAL	2,026.0	19.00	133.31	1,971.40	-280.75	301.82	412.08	0.65	0.29	-1.82	295.22

2.1.2 Survey Stations (Continued)

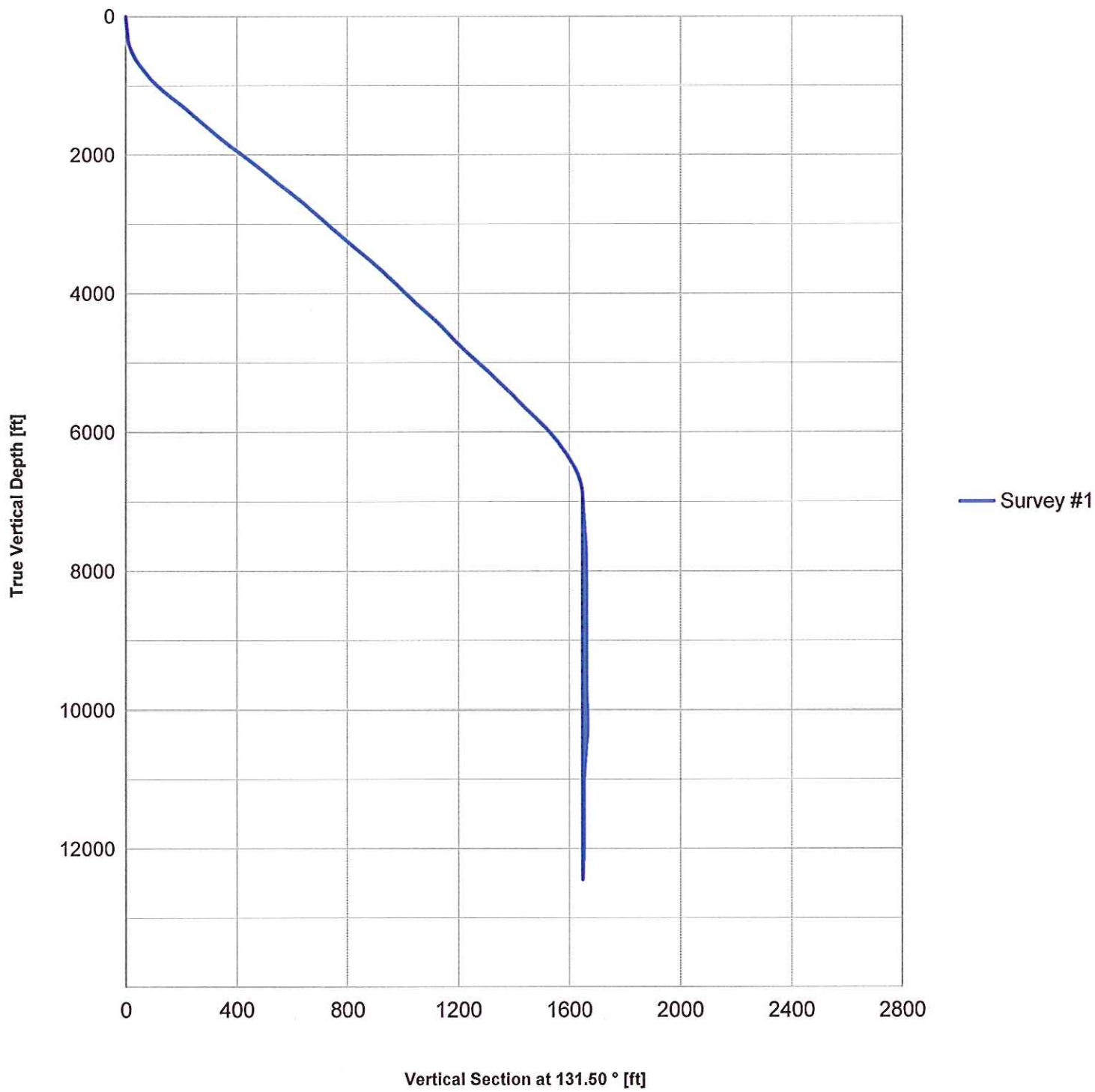
Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLS (°/100ft)	Build Rate (°/100ft)	Turn (°/100ft)	TFace (°)
10/21/2012	NORMAL	2,121.0	18.31	131.76	2,061.41	-301.29	324.20	442.46	0.89	-0.73	-1.63	214.97
	NORMAL	2,310.0	16.36	129.31	2,241.82	-337.93	366.95	498.75	1.10	-1.03	-1.30	199.36
	NORMAL	2,499.0	17.85	130.10	2,422.45	-373.45	409.70	554.31	0.80	0.79	0.42	9.24
	NORMAL	2,594.0	18.47	130.54	2,512.72	-392.61	432.28	583.91	0.67	0.65	0.46	12.68
	NORMAL	2,688.0	17.52	130.55	2,602.12	-411.49	454.34	612.94	1.01	-1.01	0.01	179.82
	NORMAL	2,782.0	16.53	129.57	2,692.00	-429.21	475.40	640.46	1.10	-1.05	-1.04	195.70
	NORMAL	2,877.0	15.92	129.48	2,783.22	-446.10	495.88	666.99	0.64	-0.64	-0.09	182.32
	NORMAL	2,971.0	16.00	127.64	2,873.60	-462.21	516.09	692.79	0.54	0.09	-1.96	278.10
	NORMAL	3,065.0	15.99	127.35	2,963.96	-477.98	536.64	718.63	0.09	-0.01	-0.31	262.73
	NORMAL	3,157.0	15.81	127.25	3,052.44	-493.25	556.69	743.77	0.20	-0.20	-0.11	188.61
	NORMAL	3,251.0	16.09	127.37	3,142.82	-508.91	577.23	769.53	0.30	0.30	0.13	6.77
	NORMAL	3,346.0	16.39	126.36	3,234.03	-524.84	598.49	796.01	0.43	0.32	-1.06	316.24
	NORMAL	3,441.0	16.53	129.04	3,325.14	-541.30	619.78	822.86	0.81	0.15	2.82	80.84
	NORMAL	3,535.0	16.80	128.51	3,415.19	-558.18	640.79	849.79	0.33	0.29	-0.56	330.37
	NORMAL	3,629.0	16.88	127.99	3,505.16	-575.04	662.18	876.98	0.18	0.09	-0.55	297.72
	NORMAL	3,660.0	17.06	126.85	3,534.81	-580.54	669.37	886.00	1.22	0.58	-3.68	297.87
11/30/2012	NORMAL	3,807.0	14.33	127.37	3,676.31	-604.52	701.08	925.65	1.86	-1.86	0.35	177.30
	NORMAL	3,901.0	15.21	123.59	3,767.21	-618.40	720.60	949.46	1.39	0.94	-4.02	310.56
	NORMAL	3,996.0	14.77	124.12	3,858.97	-632.09	741.01	973.82	0.49	-0.46	0.56	162.95
12/1/2012	NORMAL	4,090.0	14.42	132.38	3,949.95	-646.70	759.57	997.40	2.24	-0.37	8.79	103.53
	NORMAL	4,185.0	14.16	131.06	4,042.01	-662.31	777.07	1,020.85	0.44	-0.27	-1.39	230.77
	NORMAL	4,280.0	15.04	129.83	4,133.94	-677.83	795.30	1,044.79	0.98	0.93	-1.29	340.00
	NORMAL	4,374.0	15.30	134.32	4,224.67	-694.31	813.54	1,069.37	1.28	0.28	4.78	79.70
	NORMAL	4,469.0	16.82	134.66	4,315.96	-712.73	832.29	1,095.62	1.60	1.60	0.36	3.70
	NORMAL	4,563.0	14.47	134.80	4,406.47	-730.57	850.30	1,120.92	2.50	-2.50	0.15	179.15
	NORMAL	4,657.0	13.72	135.37	4,497.64	-746.78	866.46	1,143.77	0.81	-0.80	0.61	169.79
	NORMAL	4,751.0	12.75	129.48	4,589.15	-761.31	882.30	1,165.26	1.77	-1.03	-6.27	231.43
	NORMAL	4,846.0	14.25	128.16	4,681.52	-775.20	899.59	1,187.41	1.61	1.58	-1.39	347.75
	NORMAL	4,940.0	14.77	129.66	4,772.52	-789.99	917.91	1,210.94	0.68	0.55	1.60	36.58
	NORMAL	5,034.0	15.83	129.66	4,863.19	-805.82	937.00	1,235.73	1.13	1.13	0.00	0.00
	NORMAL	5,129.0	14.95	129.39	4,954.78	-821.87	956.45	1,260.92	0.93	-0.93	-0.28	184.52
	NORMAL	5,223.0	15.74	133.88	5,045.43	-838.40	975.01	1,285.78	1.52	0.84	4.78	58.56
	NORMAL	5,318.0	14.18	133.06	5,137.21	-855.28	992.80	1,310.29	1.66	-1.64	-0.86	187.33
	NORMAL	5,412.0	15.15	134.33	5,228.15	-871.72	1,010.00	1,334.07	1.09	1.03	1.35	18.95
	NORMAL	5,507.0	13.89	135.81	5,320.11	-888.58	1,026.83	1,357.84	1.38	-1.33	1.56	164.3
	NORMAL	5,600.0	14.60	131.42	5,410.25	-904.33	1,043.40	1,380.69	1.39	0.76	-4.72	301.17
	NORMAL	5,694.0	13.37	131.94	5,501.47	-919.44	1,060.37	1,403.41	1.32	-1.31	0.55	174.42
	NORMAL	5,788.0	14.07	127.28	5,592.79	-933.62	1,077.54	1,425.67	1.39	0.74	-4.96	300.07
	NORMAL	5,883.0	15.56	125.00	5,684.63	-947.93	1,097.17	1,449.85	1.68	1.57	-2.40	337.53
	NORMAL	5,977.0	14.25	126.67	5,775.46	-962.07	1,116.78	1,473.90	1.47	-1.39	1.78	162.65
	NORMAL	6,072.0	14.33	129.66	5,867.52	-976.55	1,135.21	1,497.31	0.78	0.08	3.15	85.26
	NORMAL	6,166.0	12.75	131.68	5,958.91	-990.88	1,151.91	1,519.31	1.75	-1.68	2.15	164.32
	NORMAL	6,261.0	12.31	130.36	6,051.65	-1,004.41	1,167.46	1,539.91	0.55	-0.46	-1.39	212.42
	NORMAL	6,355.0	10.46	132.29	6,143.79	-1,016.64	1,181.41	1,558.47	2.01	-1.97	2.05	169.3
	NORMAL	6,449.0	10.55	128.87	6,236.22	-1,027.78	1,194.42	1,575.59	0.67	0.10	-3.64	276.53
	NORMAL	6,542.0	9.94	128.60	6,327.74	-1,038.13	1,207.32	1,592.12	0.66	-0.66	-0.29	184.37
	NORMAL	6,636.0	8.79	125.00	6,420.48	-1,047.31	1,219.55	1,607.36	1.37	-1.22	-3.83	205.23
	NORMAL	6,730.0	7.05	129.04	6,513.58	-1,055.06	1,229.91	1,620.26	1.94	-1.85	4.30	164.25
12/2/2012	NORMAL	6,825.0	6.07	136.78	6,607.96	-1,062.40	1,237.88	1,631.08	1.39	-1.03	8.15	141.74
	NORMAL	6,920.0	4.48	152.86	6,702.56	-1,069.36	1,243.01	1,639.54	2.27	-1.67	16.93	144.90
	NORMAL	7,015.0	2.02	164.02	6,797.40	-1,074.27	1,245.17	1,644.41	2.66	-2.59	11.75	171.10
	NORMAL	7,109.0	1.58	167.89	6,891.35	-1,077.13	1,245.89	1,646.85	0.49	-0.47	4.12	166.48
	NORMAL	7,203.0	1.32	79.30	6,985.33	-1,078.20	1,247.23	1,648.56	2.16	-0.28	-94.24	220.46
	NORMAL	7,297.0	1.23	95.82	7,079.31	-1,078.10	1,249.30	1,650.04	0.40	-0.10	17.57	111.92
	NORMAL	7,392.0	1.14	104.43	7,174.29	-1,078.44	1,251.23	1,651.71	0.21	-0.09	9.06	121.07
	NORMAL	7,486.0	0.88	120.25	7,268.28	-1,079.04	1,252.76	1,653.25	0.40	-0.28	16.83	140.72
	NORMAL	7,580.0	1.23	132.56	7,362.26	-1,080.08	1,254.12	1,654.97	0.44	0.37	13.10	39.18

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 (°)
12/2/2012	NORMAL	7,674.0	1.19	138.37	7,456.24	-1,081.49	1,255.51	1,656.94	0.14	-0.04	6.18	110.95
	NORMAL	7,769.0	0.79	127.11	7,551.23	-1,082.63	1,256.69	1,658.58	0.47	-0.42	-11.85	200.38
	NORMAL	7,863.0	0.44	178.00	7,645.22	-1,083.38	1,257.22	1,659.47	0.66	-0.37	54.14	146.33
	NORMAL	7,958.0	0.44	218.78	7,740.22	-1,084.03	1,257.01	1,659.74	0.32	0.00	42.93	110.39
	NORMAL	8,052.0	0.74	194.68	7,834.21	-1,084.89	1,256.63	1,660.03	0.41	0.32	-25.64	307.93
	NORMAL	8,147.0	0.79	208.76	7,929.20	-1,086.06	1,256.15	1,660.45	0.20	0.05	14.82	82.22
	NORMAL	8,241.0	0.88	207.79	8,023.19	-1,087.27	1,255.51	1,660.77	0.10	0.10	-1.03	350.59
	NORMAL	8,335.0	0.44	218.87	8,117.19	-1,088.19	1,254.94	1,660.95	0.49	-0.47	11.79	169.32
12/3/2012	NORMAL	8,430.0	1.23	29.64	8,212.18	-1,087.59	1,255.22	1,660.76	1.75	0.83	179.76	173.20
	NORMAL	8,524.0	1.28	53.28	8,306.16	-1,086.08	1,256.56	1,660.77	0.55	0.05	25.15	96.38
	NORMAL	8,620.0	0.68	346.67	8,402.15	-1,084.89	1,257.29	1,660.52	1.24	-0.63	-69.39	211.71
	NORMAL	8,714.0	0.53	259.91	8,496.15	-1,084.42	1,256.73	1,659.79	0.89	-0.16	-92.30	219.15
	NORMAL	8,808.0	0.70	257.63	8,590.14	-1,084.62	1,255.74	1,659.19	0.18	0.18	-2.43	350.67
	NORMAL	8,902.0	0.62	61.72	8,684.14	-1,084.50	1,255.63	1,659.02	1.39	-0.09	174.56	172.53
	NORMAL	8,996.0	0.35	43.26	8,778.13	-1,084.05	1,256.27	1,659.21	0.33	-0.29	-19.64	201.05
	NORMAL	9,090.0	0.37	128.29	8,872.13	-1,084.03	1,256.71	1,659.52	0.52	0.02	90.46	130.78
	NORMAL	9,185.0	0.44	184.50	8,967.13	-1,084.58	1,256.92	1,660.04	0.41	0.07	59.17	108.9
	NORMAL	9,280.0	0.53	236.53	9,062.13	-1,085.19	1,256.53	1,660.15	0.46	0.09	54.77	105.25
	NORMAL	9,374.0	0.70	260.88	9,156.12	-1,085.52	1,255.60	1,659.67	0.33	0.18	25.90	69.53
	NORMAL	9,469.0	0.88	239.08	9,251.11	-1,085.99	1,254.40	1,659.09	0.37	0.19	-22.95	289.7
	NORMAL	9,564.0	0.27	8.33	9,346.11	-1,086.14	1,253.80	1,658.74	1.13	-0.64	136.05	168.75
	NORMAL	9,658.0	0.18	119.73	9,440.11	-1,085.99	1,253.96	1,658.77	0.40	-0.10	118.51	153.47
	NORMAL	9,753.0	0.35	149.87	9,535.11	-1,086.32	1,254.24	1,659.19	0.23	0.18	31.73	55.08
12/4/2012	NORMAL	9,847.0	0.97	129.31	9,629.10	-1,087.07	1,255.00	1,660.25	0.70	0.66	-21.87	328.6
	NORMAL	9,941.0	1.14	167.27	9,723.09	-1,088.49	1,255.82	1,661.81	0.75	0.18	40.38	95.79
	NORMAL	10,036.0	0.73	170.53	9,818.07	-1,090.01	1,256.13	1,663.05	0.44	-0.43	3.43	174.24
	NORMAL	10,130.0	0.79	180.11	9,912.07	-1,091.25	1,256.23	1,663.94	0.15	0.06	10.19	69.57
	NORMAL	10,224.0	1.06	198.48	10,006.05	-1,092.72	1,255.95	1,664.71	0.42	0.29	19.54	57.1
	NORMAL	10,318.0	0.79	210.08	10,100.04	-1,094.10	1,255.35	1,665.18	0.35	-0.29	12.34	150.96
	NORMAL	10,413.0	1.14	212.71	10,195.03	-1,095.47	1,254.51	1,665.45	0.37	0.37	2.77	8.53
12/5/2012	NORMAL	10,505.0	0.79	240.40	10,287.02	-1,096.55	1,253.46	1,665.38	0.62	-0.38	30.10	140.19
	NORMAL	10,599.0	1.06	287.77	10,381.00	-1,096.60	1,252.07	1,664.38	0.83	0.29	50.39	95.28
12/6/2012	NORMAL	10,694.0	1.67	333.39	10,475.98	-1,095.10	1,250.62	1,662.29	1.26	0.64	48.02	84.82
	NORMAL	10,788.0	1.32	339.89	10,569.95	-1,092.86	1,249.63	1,660.07	0.41	-0.37	6.91	157.37
	NORMAL	10,882.0	1.41	293.49	10,663.92	-1,091.38	1,248.20	1,658.01	1.15	0.10	-49.36	251.20
	NORMAL	10,977.0	1.23	311.77	10,758.90	-1,090.23	1,246.36	1,655.88	0.48	-0.19	19.24	122.1
	NORMAL	11,071.0	1.58	15.58	10,852.88	-1,088.31	1,245.96	1,654.31	1.61	0.37	67.88	110.58
	NORMAL	11,165.0	1.41	0.37	10,946.84	-1,085.91	1,246.32	1,652.98	0.46	-0.18	-16.18	239.33
	NORMAL	11,260.0	1.23	348.86	11,041.82	-1,083.74	1,246.13	1,651.40	0.34	-0.19	-12.12	230.16
	NORMAL	11,354.0	0.88	325.83	11,135.80	-1,082.15	1,245.53	1,649.90	0.58	-0.37	-24.50	219.33
	NORMAL	11,448.0	0.70	19.27	11,229.80	-1,081.01	1,245.31	1,648.98	0.77	-0.19	56.85	129.47
12/7/2012	NORMAL	11,542.0	1.32	49.06	11,323.78	-1,079.76	1,246.32	1,648.91	0.84	0.66	31.69	55.80
	NORMAL	11,636.0	0.88	40.54	11,417.76	-1,078.50	1,247.60	1,649.04	0.50	-0.47	-9.06	196.17
	NORMAL	11,731.0	0.09	107.07	11,512.76	-1,077.97	1,248.15	1,649.09	0.89	-0.83	70.03	174.4
	NORMAL	11,824.0	0.88	206.30	11,605.76	-1,078.63	1,247.90	1,649.35	0.97	0.85	106.70	104.90
	NORMAL	11,919.0	1.23	192.94	11,700.74	-1,080.28	1,247.35	1,650.03	0.45	0.37	-14.06	318.10
	NORMAL	12,013.0	1.32	218.78	11,794.72	-1,082.11	1,246.45	1,650.56	0.61	0.10	27.49	94.17
	NORMAL	12,107.0	2.02	213.86	11,888.68	-1,084.33	1,244.85	1,650.83	0.76	0.74	-5.23	345.96
	NORMAL	12,201.0	2.46	225.37	11,982.61	-1,087.12	1,242.49	1,650.92	0.67	0.47	12.24	51.48
12/8/2012	NORMAL	12,296.0	2.73	224.84	12,077.51	-1,090.16	1,239.44	1,650.65	0.29	0.28	-0.56	354.66
	NORMAL	12,390.0	3.34	230.82	12,171.38	-1,093.47	1,235.74	1,650.07	0.73	0.65	6.36	30.44
	NORMAL	12,484.0	3.34	230.38	12,265.22	-1,096.95	1,231.51	1,649.21	0.03	0.00	-0.47	269.78
	NORMAL	12,578.0	4.04	233.28	12,359.02	-1,100.68	1,226.74	1,648.11	0.77	0.74	3.09	16.38
12/9/2012	NORMAL	12,664.0	4.04	233.28	12,444.81	-1,104.30	1,221.89	1,646.87	0.00	0.00	0.00	0.00

3 Charts

3.1 Vertical Section View



3.2 Plan View

