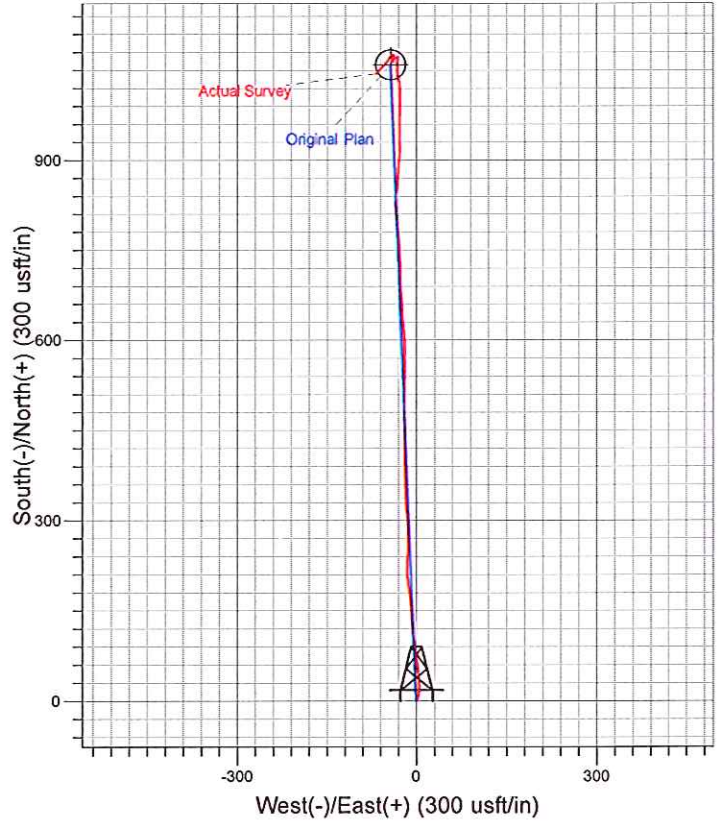
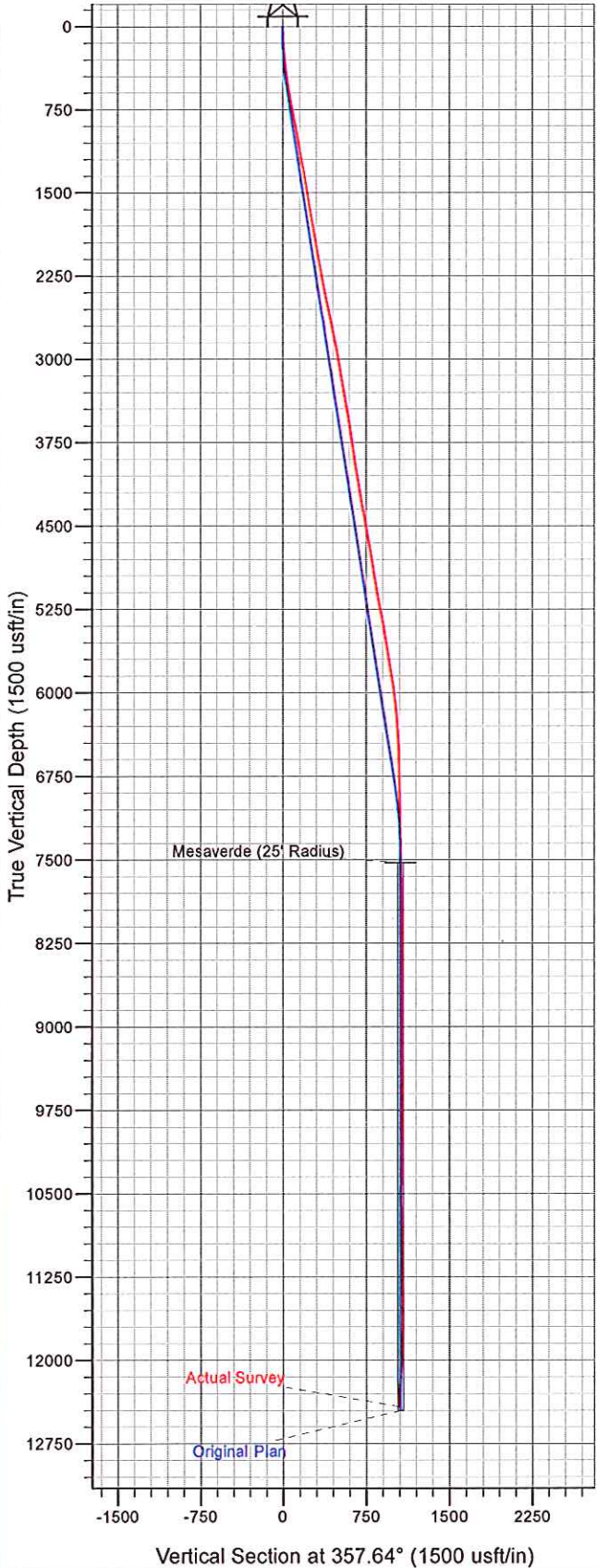




Well Name: RGU 33-36-198
 Surface Location: RGU 33-36-198 Pad
 North American Datum 1983 , US State Plane 1983. Colorado Central Zone
 Ground Elevation: 6574.00

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	1771048.90	2203514.30	39.91617	-108.33982	A6

WELL @ 6595.00usft (Original Well Elev)



Azimuths to True North
 Magnetic North: 10.39°

Magnetic Field
 Strength: 52296.3snT
 Dip Angle: 65.98°
 Date: 10/5/2012
 Model: IGRF2010

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 33-36-198	Wellbore No.	
Well Name	FEDERAL RGU 33-36-198	Common Name	RGU 33-36-198
Project	RG 36-01S-098W	Site	RGU 33-36-198 Pad
Vertical Section Azimuth	357.64 (°)	North Reference	True
Origin N/S		Origin E/W	
Spud Date	10/4/2012	UWI	RGU 33-36-198
Active Datum	KB @6,595.0ft (above Mean Sea Level)		

Survey Name

2.1 Survey Name: Survey #1

Survey Name	Survey #1	Company	SCIENTIFIC DRILLING
Date Started	10/4/2012	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 (°)
10/4/2012	Tie On	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/4/2012	NORMAL	250.0	4.84	15.84	249.70	10.15	2.88	10.03	1.94	1.94	0.00	15.84
	NORMAL	342.0	6.67	5.56	341.24	19.20	4.46	19.01	2.28	1.99	-11.17	325.43
	NORMAL	434.0	8.44	358.09	432.44	31.27	4.75	31.05	2.20	1.92	-8.12	327.24
	NORMAL	526.0	9.27	353.31	523.34	45.38	3.66	45.19	1.20	0.90	-5.20	316.06
	NORMAL	618.0	9.67	351.50	614.09	60.38	1.66	60.26	0.54	0.43	-1.97	322.44
	NORMAL	710.0	10.38	352.55	704.68	76.24	-0.56	76.20	0.80	0.77	1.14	14.95
	NORMAL	805.0	10.82	350.44	798.06	93.52	-3.15	93.57	0.62	0.46	-2.22	317.54
	NORMAL	899.0	10.20	353.78	890.48	110.50	-5.52	110.63	0.92	-0.66	3.55	137.14
	NORMAL	993.0	10.20	357.30	983.00	127.08	-6.81	127.26	0.66	0.00	3.74	91.73
10/5/2012	NORMAL	1,087.0	10.73	356.15	1,075.44	144.13	-7.79	144.33	0.61	0.56	-1.22	337.92
	NORMAL	1,181.0	10.64	354.40	1,167.81	161.50	-9.23	161.74	0.36	-0.10	-1.86	253.64
	NORMAL	1,274.0	10.38	352.20	1,259.25	178.34	-11.20	178.65	0.51	-0.28	-2.37	235.98
	NORMAL	1,368.0	9.23	351.50	1,351.87	194.19	-13.46	194.58	1.23	-1.22	-0.74	185.57
	NORMAL	1,463.0	8.97	356.09	1,445.68	209.11	-15.10	209.56	0.81	-0.27	4.83	111.96
	NORMAL	1,558.0	9.37	359.72	1,539.46	224.23	-15.64	224.69	0.74	0.42	3.82	57.14
	NORMAL	1,653.0	9.17	4.71	1,633.23	239.51	-15.05	239.93	0.87	-0.21	5.25	106.43
	NORMAL	1,747.0	9.09	359.48	1,726.04	254.40	-14.51	254.78	0.89	-0.09	-5.56	261.92
	NORMAL	1,841.0	9.50	0.28	1,818.80	269.58	-14.54	269.95	0.46	0.44	0.85	17.89
	NORMAL	1,934.0	9.76	2.13	1,910.49	285.14	-14.21	285.48	0.43	0.28	1.99	50.88

2.1.2 Survey Stations (Continued)

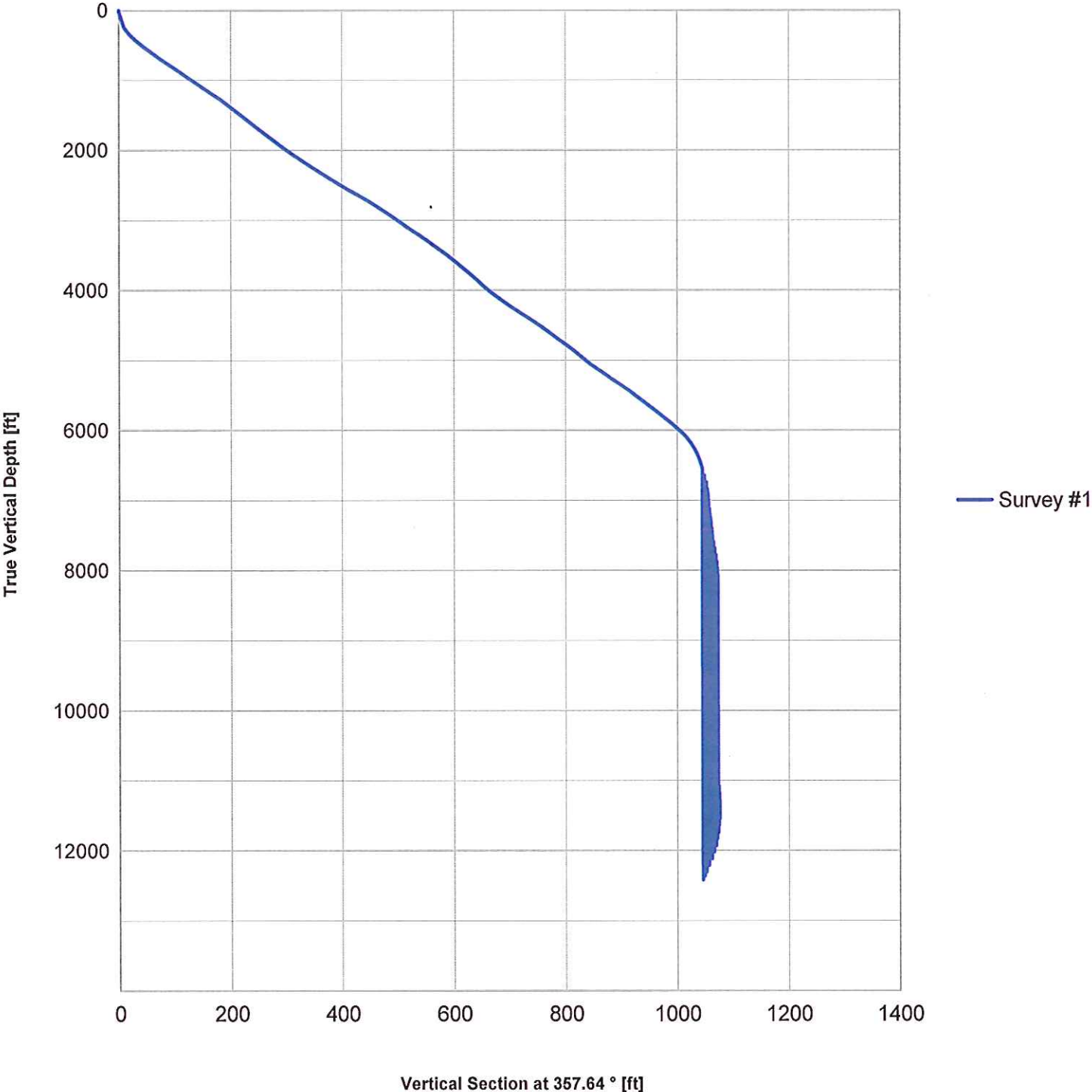
Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLS (°/100ft)	Build Rate (°/100ft)	Turn (°/100ft)	TFace (°)
10/5/2012	NORMAL	2,029.0	9.92	353.98	2,004.10	301.32	-14.76	301.67	1.47	0.17	-8.58	272.53
	NORMAL	2,123.0	10.51	354.51	2,096.61	317.91	-16.43	318.31	0.64	0.63	0.56	9.3'
	NORMAL	2,218.0	10.70	356.76	2,189.99	335.34	-17.76	335.78	0.48	0.20	2.37	66.46
	NORMAL	2,313.0	11.17	358.09	2,283.26	353.34	-18.57	353.80	0.56	0.49	1.40	28.88
	NORMAL	2,407.0	11.52	358.18	2,375.42	371.82	-19.17	372.29	0.37	0.37	0.10	2.94
	NORMAL	2,502.0	11.78	359.05	2,468.47	391.00	-19.63	391.47	0.33	0.27	0.92	34.47
	NORMAL	2,596.0	12.13	0.72	2,560.43	410.47	-19.67	410.93	0.52	0.37	1.78	45.48
	NORMAL	2,690.0	12.45	0.50	2,652.27	430.48	-19.45	430.91	0.34	0.34	-0.23	351.57
	NORMAL	2,785.0	11.87	358.70	2,745.14	450.48	-19.59	450.91	0.73	-0.61	-1.89	212.30
	NORMAL	2,880.0	10.64	358.44	2,838.31	469.02	-20.05	469.45	1.30	-1.29	-0.27	182.24
	NORMAL	2,973.0	10.46	359.32	2,929.74	486.04	-20.38	486.47	0.26	-0.19	0.95	138.60
	NORMAL	3,067.0	10.28	359.71	3,022.21	502.96	-20.52	503.38	0.21	-0.19	0.41	158.89
	NORMAL	3,160.0	10.07	0.77	3,113.74	519.39	-20.46	519.79	0.30	-0.23	1.14	138.80
	NORMAL	3,254.0	10.35	0.22	3,206.25	536.05	-20.31	536.43	0.32	0.30	-0.59	340.53
	NORMAL	3,349.0	10.20	0.55	3,299.73	553.00	-20.20	553.36	0.17	-0.16	0.35	158.74
	NORMAL	3,443.0	9.82	0.54	3,392.30	569.34	-20.04	569.68	0.40	-0.40	-0.01	180.26
	NORMAL	3,537.0	9.35	0.57	3,484.99	584.99	-19.89	585.31	0.50	-0.50	0.03	179.4'
	NORMAL	3,627.0	9.15	357.56	3,573.82	599.45	-20.12	599.77	0.58	-0.22	-3.34	246.06
10/7/2012	NORMAL	3,813.0	8.44	352.11	3,757.63	627.74	-22.63	628.14	0.59	-0.38	-2.93	226.90
	NORMAL	3,908.0	7.86	356.41	3,851.67	641.13	-23.99	641.58	0.89	-0.61	4.53	135.68
	NORMAL	4,002.0	7.59	359.54	3,944.82	653.75	-24.44	654.21	0.53	-0.29	3.33	124.23
	NORMAL	4,097.0	9.64	354.42	4,038.75	667.95	-25.27	668.42	2.30	2.16	-5.39	336.94
10/8/2012	NORMAL	4,192.0	9.43	352.90	4,132.43	683.59	-27.00	684.12	0.35	-0.22	-1.60	229.42
	NORMAL	4,286.0	10.55	0.64	4,225.01	699.83	-27.86	700.39	1.86	1.19	8.23	54.02
	NORMAL	4,381.0	11.26	359.41	4,318.29	717.81	-27.86	718.34	0.79	0.75	-1.29	341.25
	NORMAL	4,475.0	10.67	0.36	4,410.58	735.68	-27.90	736.21	0.66	-0.63	1.01	163.44
	NORMAL	4,569.0	10.21	353.19	4,503.03	752.66	-28.83	753.21	1.47	-0.49	-7.63	247.00
	NORMAL	4,663.0	9.76	352.99	4,595.60	768.84	-30.79	769.46	0.48	-0.48	-0.21	184.3'
	NORMAL	4,757.0	9.58	356.24	4,688.27	784.55	-32.28	785.22	0.61	-0.19	3.46	109.85
	NORMAL	4,852.0	10.02	357.30	4,781.88	800.70	-33.18	801.38	0.50	0.46	1.12	22.82
	NORMAL	4,946.0	9.03	355.45	4,874.58	816.22	-34.15	816.93	1.10	-1.05	-1.97	196.27
	NORMAL	5,041.0	8.35	355.19	4,968.49	830.52	-35.32	831.27	0.72	-0.72	-0.27	183.18
	NORMAL	5,135.0	9.76	6.26	5,061.33	845.25	-35.03	845.97	2.38	1.50	11.78	56.57
	NORMAL	5,229.0	10.46	7.05	5,153.87	861.64	-33.11	862.27	0.76	0.74	0.84	11.59
	NORMAL	5,324.0	10.55	3.98	5,247.27	878.87	-31.45	879.42	0.60	0.09	-3.23	277.62
	NORMAL	5,419.0	11.26	4.06	5,340.56	896.80	-30.19	897.28	0.75	0.75	0.08	1.26
	NORMAL	5,512.0	9.41	3.54	5,432.04	913.44	-29.08	913.87	1.99	-1.99	-0.56	182.63
	NORMAL	5,606.0	9.10	0.29	5,524.82	928.55	-28.56	928.94	0.65	-0.33	-3.46	237.73
	NORMAL	5,700.0	9.50	358.97	5,617.59	943.74	-28.67	944.12	0.48	0.43	-1.40	331.28
	NORMAL	5,795.0	9.23	357.91	5,711.32	959.19	-29.09	959.57	0.34	-0.28	-1.12	212.05
	NORMAL	5,889.0	9.06	2.13	5,804.13	974.12	-29.08	974.49	0.74	-0.18	4.49	106.30
	NORMAL	5,983.0	9.10	1.92	5,896.95	988.94	-28.56	989.28	0.06	0.04	-0.22	320.25
	NORMAL	6,078.0	8.00	0.64	5,990.89	1,003.06	-28.24	1,003.38	1.18	-1.16	-1.35	189.18
	NORMAL	6,172.0	6.68	358.44	6,084.12	1,015.07	-28.31	1,015.38	1.44	-1.40	-2.34	190.93
	NORMAL	6,266.0	4.84	353.69	6,177.64	1,024.48	-28.90	1,024.80	2.02	-1.96	-5.05	192.17
	NORMAL	6,361.0	3.78	350.27	6,272.37	1,031.55	-29.87	1,031.90	1.15	-1.12	-3.60	191.93
10/9/2012	NORMAL	6,454.0	3.43	346.53	6,365.19	1,037.27	-31.03	1,037.67	0.45	-0.38	-4.02	212.04
	NORMAL	6,547.0	2.29	343.76	6,458.07	1,041.76	-32.20	1,042.21	1.23	-1.23	-2.98	185.53
	NORMAL	6,642.0	1.96	352.81	6,553.00	1,045.20	-32.93	1,045.67	0.49	-0.35	9.53	138.98
	NORMAL	6,737.0	2.29	356.86	6,647.94	1,048.71	-33.24	1,049.18	0.38	0.35	4.26	26.50
	NORMAL	6,832.0	1.49	8.99	6,742.89	1,051.82	-33.15	1,052.29	0.94	-0.84	12.77	159.4'
	NORMAL	6,927.0	1.10	4.44	6,837.86	1,053.95	-32.89	1,054.41	0.42	-0.41	-4.79	192.50
	NORMAL	7,021.0	0.72	6.70	6,931.85	1,055.44	-32.75	1,055.89	0.41	-0.40	2.40	175.73
	NORMAL	7,115.0	0.54	323.97	7,025.85	1,056.38	-32.94	1,056.84	0.52	-0.19	-45.46	228.57
	NORMAL	7,209.0	0.88	357.30	7,119.84	1,057.46	-33.24	1,057.93	0.55	0.36	35.46	68.0'
	NORMAL	7,303.0	0.91	345.01	7,213.83	1,058.90	-33.46	1,059.38	0.21	0.03	-13.07	272.70
	NORMAL	7,398.0	1.02	6.59	7,308.81	1,060.47	-33.56	1,060.95	0.40	0.12	22.72	84.14

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 (°)
10/9/2012	NORMAL	7,492.0	0.88	8.20	7,402.80	1,062.02	-33.36	1,062.49	0.15	-0.15	1.71	170.01
	NORMAL	7,586.0	0.70	329.96	7,496.79	1,063.23	-33.55	1,063.71	0.58	-0.19	-40.68	232.69
	NORMAL	7,680.0	1.41	15.31	7,590.78	1,064.84	-33.53	1,065.32	1.11	0.76	48.24	73.82
	NORMAL	7,775.0	1.48	19.79	7,685.75	1,067.12	-32.80	1,067.57	0.14	0.07	4.72	60.47
	NORMAL	7,869.0	1.26	7.09	7,779.72	1,069.29	-32.27	1,069.71	0.40	-0.23	-13.51	227.84
	NORMAL	7,964.0	0.70	347.54	7,874.71	1,070.89	-32.26	1,071.31	0.68	-0.59	-20.58	201.31
	NORMAL	8,059.0	0.54	11.30	7,969.70	1,071.90	-32.30	1,072.32	0.32	-0.17	25.01	133.40
	NORMAL	8,153.0	0.35	338.75	8,063.70	1,072.60	-32.32	1,073.02	0.33	-0.20	-34.63	217.55
	NORMAL	8,247.0	0.18	241.63	8,157.70	1,072.80	-32.55	1,073.23	0.44	-0.18	-103.32	205.63
	NORMAL	8,341.0	0.70	240.58	8,251.69	1,072.45	-33.18	1,072.90	0.55	0.55	-1.12	358.59
	NORMAL	8,437.0	1.14	231.53	8,347.68	1,071.56	-34.44	1,072.07	0.48	0.46	-9.43	337.16
	NORMAL	8,532.0	0.79	229.24	8,442.67	1,070.55	-35.68	1,071.11	0.37	-0.37	-2.41	185.14
	NORMAL	8,627.0	0.97	220.36	8,537.66	1,069.51	-36.69	1,070.11	0.24	0.19	-9.35	318.35
10/10/2012	NORMAL	8,721.0	0.86	246.00	8,631.65	1,068.61	-37.85	1,069.27	0.45	-0.12	27.28	117.62
	NORMAL	8,815.0	0.70	288.39	8,725.64	1,068.51	-39.04	1,069.21	0.62	-0.17	45.10	126.01
	NORMAL	8,909.0	0.26	336.11	8,819.63	1,068.89	-39.67	1,069.61	0.59	-0.47	50.77	159.88
	NORMAL	9,003.0	0.53	27.71	8,913.63	1,069.47	-39.56	1,070.19	0.45	0.29	54.89	80.54
	NORMAL	9,097.0	0.81	15.08	9,007.63	1,070.49	-39.18	1,071.20	0.34	0.30	-13.44	325.78
	NORMAL	9,192.0	0.50	352.30	9,102.62	1,071.55	-39.06	1,072.25	0.42	-0.33	-23.98	209.02
	NORMAL	9,287.0	0.53	295.16	9,197.62	1,072.15	-39.52	1,072.87	0.52	0.03	-60.15	244.48
	NORMAL	9,381.0	0.26	261.94	9,291.61	1,072.30	-40.12	1,073.05	0.37	-0.29	-35.34	204.50
	NORMAL	9,476.0	0.53	128.52	9,386.61	1,072.00	-39.99	1,072.74	0.77	0.28	-140.44	211.66
	NORMAL	9,571.0	0.79	159.02	9,481.61	1,071.11	-39.41	1,071.83	0.45	0.27	32.11	69.40
	NORMAL	9,665.0	0.18	250.25	9,575.60	1,070.46	-39.32	1,071.17	0.87	-0.65	97.05	167.23
10/11/2012	NORMAL	9,760.0	0.79	253.50	9,670.60	1,070.22	-40.09	1,070.97	0.64	0.64	3.42	4.2'
	NORMAL	9,855.0	0.33	252.72	9,765.59	1,069.96	-40.98	1,070.74	0.48	-0.48	-0.82	180.56
	NORMAL	9,948.0	0.18	235.04	9,858.59	1,069.79	-41.35	1,070.59	0.18	-0.16	-19.01	199.03
	NORMAL	10,043.0	0.88	229.42	9,953.59	1,069.23	-42.03	1,070.06	0.74	0.74	-5.92	352.94
10/12/2012	NORMAL	10,136.0	0.69	218.73	10,046.58	1,068.33	-42.92	1,069.19	0.26	-0.20	-11.49	212.36
	NORMAL	10,230.0	1.32	129.75	10,140.57	1,067.20	-42.44	1,068.04	1.57	0.67	-94.66	243.2'
	NORMAL	10,324.0	1.14	136.62	10,234.55	1,065.82	-40.97	1,066.61	0.25	-0.19	7.31	144.07
	NORMAL	10,418.0	0.70	182.39	10,328.54	1,064.57	-40.35	1,065.33	0.87	-0.47	48.69	142.42
	NORMAL	10,512.0	0.35	245.68	10,422.53	1,063.88	-40.64	1,064.65	0.67	-0.37	67.33	150.05
	NORMAL	10,606.0	0.70	21.91	10,516.53	1,064.29	-40.68	1,065.07	1.05	0.37	144.93	150.48
	NORMAL	10,701.0	1.32	46.34	10,611.52	1,065.59	-39.67	1,066.32	0.78	0.65	25.72	47.4'
	NORMAL	10,795.0	0.62	13.64	10,705.50	1,066.83	-38.77	1,067.52	0.92	-0.74	-34.79	202.76
	NORMAL	10,889.0	1.06	354.57	10,799.49	1,068.19	-38.73	1,068.88	0.55	0.47	-20.29	317.78
	NORMAL	10,984.0	1.23	20.32	10,894.47	1,070.02	-38.46	1,070.70	0.56	0.18	27.11	84.88
	NORMAL	11,078.0	1.42	10.53	10,988.45	1,072.11	-37.90	1,072.76	0.31	0.20	-10.41	305.04
	NORMAL	11,172.0	0.94	353.98	11,082.43	1,074.02	-37.77	1,074.67	0.62	-0.51	-17.61	207.29
	NORMAL	11,266.0	0.79	279.25	11,176.42	1,074.89	-38.49	1,075.57	1.12	-0.16	-79.50	226.16
	NORMAL	11,361.0	0.41	304.88	11,271.42	1,075.19	-39.41	1,075.91	0.48	-0.40	26.98	157.12
	NORMAL	11,455.0	0.44	294.10	11,365.41	1,075.53	-40.02	1,076.27	0.09	0.03	-11.47	285.12
	NORMAL	11,549.0	0.62	263.69	11,459.41	1,075.63	-40.85	1,076.40	0.35	0.19	-32.35	286.78
	NORMAL	11,643.0	1.06	239.08	11,553.40	1,075.12	-42.10	1,075.94	0.60	0.47	-26.18	307.9'
10/13/2012	NORMAL	11,738.0	1.23	236.62	11,648.38	1,074.11	-43.71	1,075.00	0.19	0.18	-2.59	342.64
	NORMAL	11,832.0	1.06	212.01	11,742.36	1,072.82	-45.01	1,073.76	0.55	-0.18	-26.18	238.90
	NORMAL	11,926.0	1.58	213.24	11,836.34	1,071.00	-46.18	1,071.99	0.55	0.55	1.31	3.73
	NORMAL	12,020.0	2.11	212.63	11,930.29	1,068.48	-47.83	1,069.52	0.56	0.56	-0.65	357.57
	NORMAL	12,114.0	2.92	220.68	12,024.20	1,065.18	-50.32	1,066.35	0.94	0.86	8.56	27.62
	NORMAL	12,208.0	3.86	219.56	12,118.03	1,060.93	-53.90	1,062.25	1.00	1.00	-1.19	355.4'
	NORMAL	12,302.0	4.22	221.77	12,211.80	1,055.91	-58.22	1,057.41	0.42	0.38	2.35	24.48
	NORMAL	12,397.0	4.31	223.53	12,306.54	1,050.71	-63.00	1,052.42	0.17	0.09	1.85	56.37
	NORMAL	12,454.0	4.22	220.63	12,363.38	1,047.57	-65.84	1,049.39	0.41	-0.16	-5.09	245.9'
	NORMAL	12,510.0	4.22	220.63	12,419.23	1,044.44	-68.53	1,046.38	0.00	0.00	0.00	0.00

3 Charts

3.1 Vertical Section View



3.2 Plan View

