

Bill Barrett Corp. (II)

Garfield County, Colorado [NAD83]

Circle B Tract 5 Pad

CBS 41D-21-692

Wellbore #1

Design: Wellbore #1

Standard Survey Report

12 January, 2012



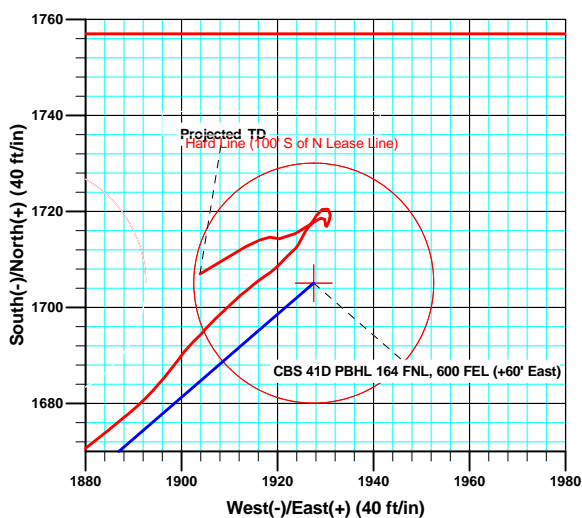
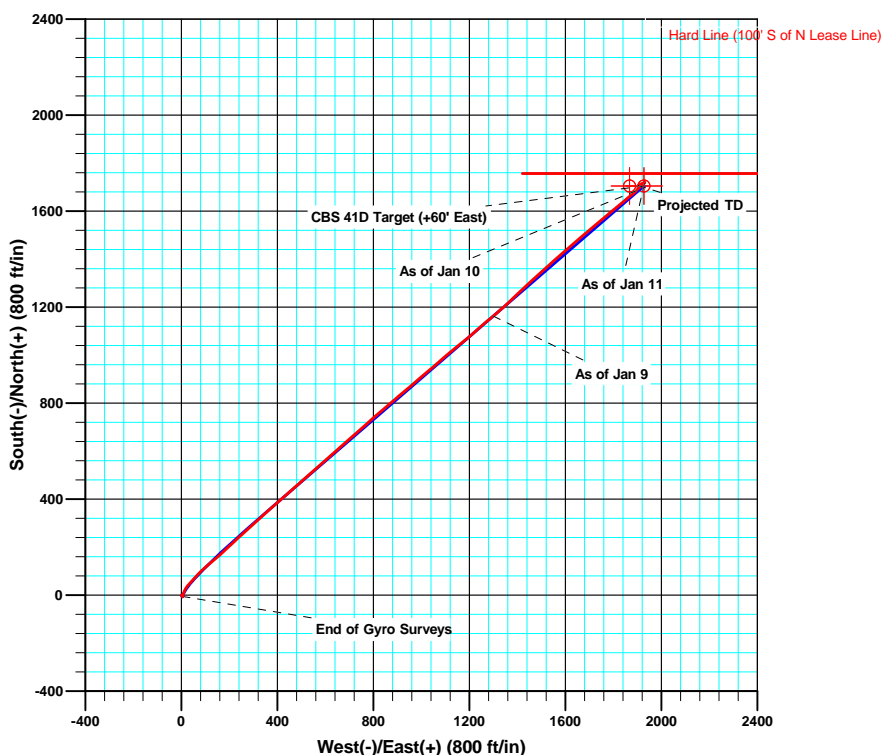
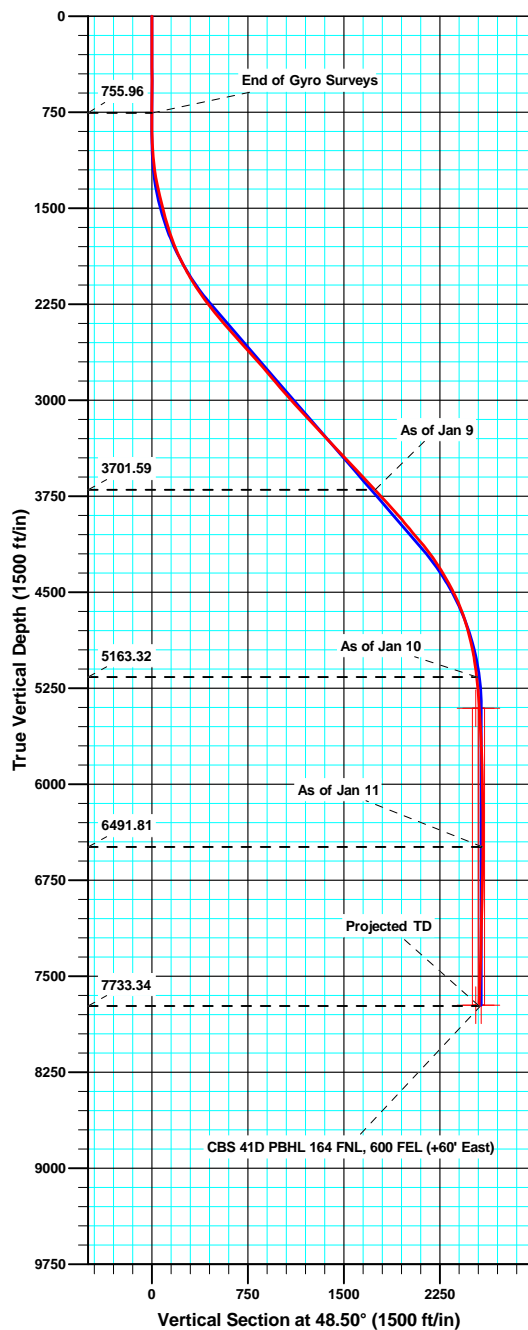
Bill Barrett Corporation

WELL DETAILS: CBS 41D-21-692

North American Datum 1983 , US State Plane 1983 , Colorado Central Zone

+N/-S +E/-W Northing Easting Latitude Longitude
0.00 0.00 1619639.90 2387458.58 38° 52.53' N 107° 40' 16.96" W

Ground Level: 5743.50



Azimuths to True North
 Magnetic North: 10.23°
 Magnetic Field
 Strength: 52318.3nT
 Dip Angle: 65.82°
 Date: 04/26/2011
 Model: IGRF2010

ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	VSect	Departure	Annotation
755.96	756.00	0.690	153.26	-4.88	4.63	0.24	7.01	End of Gyro Surveys
3701.59	4297.00	43.800	50.60	1162.77	1299.46	1743.71	1757.52	As of Jan 9
5163.32	5998.00	6.600	38.80	1685.74	1896.69	2537.54	2551.65	As of Jan 10
6491.81	7328.00	1.000	197.70	1716.90	1930.25	2583.32	2605.18	As of Jan 11
7733.34	8570.00	1.800	220.00	1706.99	1903.85	2556.98	2638.91	Projected TD

Sharewell

Survey Report

Company:	Bill Barrett Corp. (II)	Local Co-ordinate Reference:	Well CBS 41D-21-692
Project:	Garfield County, Colorado [NAD83]	TVD Reference:	KB @ 5767.00ft
Site:	Circle B Tract 5 Pad	MD Reference:	KB @ 5767.00ft
Well:	CBS 41D-21-692	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	CompassVM

Project	Garfield County, Colorado [NAD83]		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Central Zone		

Site		Circle B Tract 5 Pad			
Site Position:		Northing:	1,619,626.42 usft	Latitude:	39° 30' 52.41 N
From:	Lat/Long	Easting:	2,387,502.83 usft	Longitude:	107° 40' 16.36 W
Position Uncertainty:	0.00 ft	Slot Radius:	1.10 ft	Grid Convergence:	-1.37 °

Well	CBS 41D-21-692					
Well Position	+N/-S	0.00 ft	Northing:	1,619,639.90 usft	Latitude:	39° 30' 52.53 N
	+E/-W	0.00 ft	Easting:	2,387,456.59 usft	Longitude:	107° 40' 16.96 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	5,743.50 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	04/26/11	10.23	65.82	52,318

Design	Wellbore #1				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	48.50	

Survey Program	Date	01/12/12			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
100.00	756.00	Survey #1 (Wellbore #1)	Gyro	Gyro	
887.00	8,570.00	MWD (Wellbore #1)	MWD	MWD - Standard	

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
100.00	0.320	120.24	100.00	-0.14	0.24	0.09	0.32	0.32	0.00	
200.00	0.480	106.36	200.00	-0.40	0.88	0.40	0.19	0.16	-13.88	
300.00	0.640	126.30	299.99	-0.85	1.74	0.74	0.25	0.16	19.94	
400.00	0.550	162.08	399.99	-1.64	2.33	0.66	0.38	-0.09	35.78	
500.00	0.550	136.49	499.98	-2.44	2.81	0.49	0.24	0.00	-25.59	
600.00	0.730	140.01	599.98	-3.28	3.55	0.49	0.18	0.18	3.52	
700.00	0.710	147.42	699.97	-4.29	4.30	0.38	0.10	-0.02	7.41	
756.00	0.690	153.26	755.97	-4.88	4.63	0.24	0.13	-0.04	10.43	
887.00	0.400	92.80	886.96	-5.61	5.45	0.36	0.46	-0.22	-46.15	

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Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	CompassVM

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
976.00	1.800	32.60	975.94	-4.44	6.51	1.93	1.84	1.57	-67.64
1,072.00	5.600	9.80	1,071.73	1.44	8.12	7.04	4.17	3.96	-23.75
1,166.00	8.100	18.20	1,165.05	12.26	10.97	16.34	2.86	2.66	8.94
1,261.00	11.000	28.40	1,258.73	26.59	17.37	30.63	3.52	3.05	10.74
1,357.00	12.200	41.10	1,352.79	42.29	28.40	49.29	2.93	1.25	13.23
1,452.00	13.200	43.20	1,445.46	57.77	42.42	70.05	1.16	1.05	2.21
1,547.00	15.500	42.30	1,537.49	75.06	58.39	93.47	2.43	2.42	-0.95
1,642.00	16.700	44.10	1,628.76	94.26	76.44	119.70	1.37	1.26	1.89
1,737.00	18.900	49.00	1,719.22	114.16	97.55	148.70	2.80	2.32	5.16
1,832.00	22.700	50.40	1,808.01	135.94	123.30	182.42	4.03	4.00	1.47
1,927.00	25.500	48.60	1,894.72	161.16	152.77	221.20	3.05	2.95	-1.89
2,022.00	28.100	47.10	1,979.51	189.91	184.50	264.02	2.83	2.74	-1.58
2,117.00	31.200	46.80	2,062.06	222.00	218.83	310.99	3.27	3.26	-0.32
2,211.00	34.000	48.90	2,141.25	255.95	256.40	361.62	3.21	2.98	2.23
2,305.00	35.700	47.50	2,218.39	291.76	296.43	415.33	2.00	1.81	-1.49
2,400.00	38.400	47.50	2,294.20	330.42	338.62	472.56	2.84	2.84	0.00
2,496.00	40.500	48.20	2,368.32	371.35	383.85	533.55	2.24	2.19	0.73
2,591.00	42.400	48.20	2,439.53	413.26	430.73	596.43	2.00	2.00	0.00
2,686.00	42.100	48.60	2,509.85	455.67	478.49	660.31	0.42	-0.32	0.42
2,781.00	41.600	48.80	2,580.61	497.50	526.11	723.69	0.54	-0.53	0.21
2,876.00	40.900	49.80	2,652.04	538.35	573.59	786.32	1.01	-0.74	1.05
2,970.00	41.000	48.60	2,723.03	578.61	620.23	847.92	0.84	0.11	-1.28
3,065.00	41.000	47.80	2,794.73	620.15	666.69	910.24	0.55	0.00	-0.84
3,160.00	39.800	48.60	2,867.08	661.19	712.58	971.81	1.38	-1.26	0.84
3,255.00	41.400	48.60	2,939.21	702.07	758.96	1,033.63	1.68	1.68	0.00
3,349.00	43.000	48.70	3,008.84	743.79	806.36	1,096.77	1.70	1.70	0.11
3,444.00	41.800	49.70	3,078.99	785.65	854.84	1,160.82	1.45	-1.26	1.05
3,539.00	43.200	49.50	3,149.03	827.24	903.72	1,224.99	1.48	1.47	-0.21
3,633.00	42.900	50.00	3,217.72	868.70	952.69	1,289.14	0.48	-0.32	0.53
3,728.00	42.900	49.60	3,287.32	910.44	1,002.08	1,353.79	0.29	0.00	-0.42
3,823.00	42.600	48.90	3,357.08	952.54	1,050.94	1,418.27	0.59	-0.32	-0.74
3,918.00	43.100	49.50	3,426.72	994.75	1,099.84	1,482.88	0.68	0.53	0.63
4,013.00	43.800	51.10	3,495.69	1,036.48	1,150.11	1,548.17	1.37	0.74	1.68
4,107.00	43.200	50.00	3,563.88	1,077.59	1,200.08	1,612.83	1.03	-0.64	-1.17
4,202.00	43.600	48.50	3,632.91	1,120.19	1,249.52	1,678.10	1.16	0.42	-1.58
4,297.00	43.800	50.60	3,701.59	1,162.77	1,299.46	1,743.71	1.54	0.21	2.21
4,390.00	42.800	47.20	3,769.28	1,204.67	1,347.52	1,807.47	2.73	-1.08	-3.66
4,485.00	42.000	46.50	3,839.44	1,248.48	1,394.26	1,871.50	0.98	-0.84	-0.74
4,580.00	40.500	46.50	3,910.86	1,291.59	1,439.69	1,934.10	1.58	-1.58	0.00
4,672.00	38.600	48.40	3,981.80	1,331.22	1,482.83	1,992.66	2.45	-2.07	2.07
4,767.00	40.800	48.30	4,054.88	1,371.55	1,528.17	2,053.34	2.32	2.32	-0.11
4,862.00	39.600	49.00	4,127.44	1,412.06	1,574.19	2,114.66	1.35	-1.26	0.74
4,957.00	37.100	48.80	4,201.94	1,450.80	1,618.61	2,173.60	2.63	-2.63	-0.21

Sharewell

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Design:	Wellbore #1	Database:	CompassVM

Survey									
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5,052.00	33.000	49.20	4,279.70	1,486.59	1,659.77	2,228.14	4.32	-4.32	0.42
5,083.00	32.300	49.40	4,305.80	1,497.50	1,672.45	2,244.86	2.28	-2.26	0.65
5,114.00	31.300	49.30	4,332.14	1,508.14	1,684.84	2,261.20	3.23	-3.23	-0.32
5,146.00	30.600	49.90	4,359.59	1,518.81	1,697.37	2,277.65	2.39	-2.19	1.88
5,178.00	30.300	49.60	4,387.17	1,529.29	1,709.75	2,293.86	1.05	-0.94	-0.94
5,210.00	29.800	49.40	4,414.87	1,539.69	1,721.94	2,309.89	1.59	-1.56	-0.63
5,242.00	28.700	50.30	4,442.79	1,549.78	1,733.89	2,325.52	3.70	-3.44	2.81
5,273.00	27.200	50.50	4,470.18	1,559.04	1,745.08	2,340.04	4.85	-4.84	0.65
5,305.00	26.000	50.20	4,498.79	1,568.18	1,756.11	2,354.36	3.77	-3.75	-0.94
5,336.00	25.300	50.30	4,526.73	1,576.76	1,766.43	2,367.77	2.26	-2.26	0.32
5,367.00	24.300	50.30	4,554.87	1,585.07	1,776.44	2,380.77	3.23	-3.23	0.00
5,399.00	23.600	50.00	4,584.12	1,593.39	1,786.41	2,393.75	2.22	-2.19	-0.94
5,431.00	22.400	49.80	4,613.57	1,601.44	1,795.97	2,406.25	3.76	-3.75	-0.63
5,462.00	21.000	50.10	4,642.38	1,608.82	1,804.75	2,417.71	4.53	-4.52	0.97
5,494.00	20.200	50.50	4,672.33	1,616.01	1,813.41	2,428.96	2.54	-2.50	1.25
5,526.00	19.300	50.50	4,702.45	1,622.89	1,821.75	2,439.77	2.81	-2.81	0.00
5,558.00	17.600	51.10	4,732.80	1,629.29	1,829.60	2,449.89	5.35	-5.31	1.88
5,589.00	15.600	49.30	4,762.51	1,634.95	1,836.41	2,458.74	6.66	-6.45	-5.81
5,620.00	15.000	49.70	4,792.41	1,640.27	1,842.63	2,466.92	1.97	-1.94	1.29
5,651.00	14.400	49.70	4,822.39	1,645.35	1,848.63	2,474.78	1.94	-1.94	0.00
5,682.00	13.500	50.00	4,852.48	1,650.17	1,854.34	2,482.25	2.91	-2.90	0.97
5,713.00	13.200	50.60	4,882.64	1,654.75	1,859.84	2,489.41	1.07	-0.97	1.94
5,745.00	13.000	52.70	4,913.81	1,659.25	1,865.53	2,496.65	1.61	-0.63	6.56
5,777.00	12.000	51.40	4,945.05	1,663.50	1,870.99	2,503.56	3.25	-3.13	-4.06
5,808.00	11.200	51.80	4,975.42	1,667.37	1,875.88	2,509.78	2.59	-2.58	1.29
5,840.00	9.900	51.10	5,006.88	1,671.02	1,880.46	2,515.64	4.08	-4.06	-2.19
5,872.00	9.000	51.70	5,038.44	1,674.30	1,884.57	2,520.88	2.83	-2.81	1.88
5,903.00	8.100	50.00	5,069.10	1,677.21	1,888.14	2,525.49	3.02	-2.90	-5.48
5,935.00	7.600	47.10	5,100.80	1,680.10	1,891.42	2,529.86	1.99	-1.56	-9.06
5,966.00	7.000	43.00	5,131.54	1,682.88	1,894.21	2,533.79	2.56	-1.94	-13.23
5,998.00	6.600	38.80	5,163.32	1,685.74	1,896.69	2,537.54	1.99	-1.25	-13.13
6,030.00	5.800	35.50	5,195.13	1,688.48	1,898.78	2,540.93	2.74	-2.50	-10.31
6,062.00	5.100	40.40	5,226.99	1,690.88	1,900.64	2,543.91	2.62	-2.19	15.31
6,093.00	4.600	45.60	5,257.88	1,692.80	1,902.42	2,546.52	2.15	-1.61	16.77
6,125.00	4.100	42.90	5,289.78	1,694.54	1,904.12	2,548.94	1.69	-1.56	-8.44
6,157.00	4.400	42.00	5,321.70	1,696.29	1,905.72	2,551.30	0.96	0.94	-2.81
6,189.00	4.300	45.80	5,353.60	1,698.04	1,907.40	2,553.71	0.95	-0.31	11.88
6,221.00	4.000	49.70	5,385.52	1,699.60	1,909.11	2,556.03	1.29	-0.94	12.19
6,252.00	3.800	44.60	5,416.45	1,701.03	1,910.66	2,558.13	1.29	-0.65	-16.45
6,284.00	3.700	50.00	5,448.38	1,702.45	1,912.19	2,560.22	1.15	-0.31	16.88
6,316.00	3.300	50.60	5,480.32	1,703.69	1,913.70	2,562.18	1.26	-1.25	1.88
6,347.00	3.100	50.10	5,511.27	1,704.80	1,915.03	2,563.91	0.65	-0.65	-1.61
6,380.00	3.200	54.60	5,544.22	1,705.90	1,916.47	2,565.71	0.81	0.30	13.64

Sharewell

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Design:	Wellbore #1	Database:	CompassVM

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6,411.00	3.000	55.30	5,575.18	1,706.87	1,917.84	2,567.38	0.66	-0.65	2.26	
6,443.00	3.000	50.40	5,607.13	1,707.88	1,919.17	2,569.05	0.80	0.00	-15.31	
6,474.00	2.700	45.80	5,638.10	1,708.90	1,920.32	2,570.59	1.22	-0.97	-14.84	
6,506.00	2.500	41.10	5,670.06	1,709.95	1,921.32	2,572.03	0.91	-0.63	-14.69	
6,538.00	2.300	46.60	5,702.03	1,710.92	1,922.24	2,573.37	0.95	-0.63	17.19	
6,568.00	1.900	48.30	5,732.01	1,711.67	1,923.05	2,574.47	1.35	-1.33	5.67	
6,599.00	1.500	44.90	5,763.00	1,712.30	1,923.72	2,575.38	1.33	-1.29	-10.97	
6,630.00	2.400	29.60	5,793.98	1,713.15	1,924.33	2,576.40	3.33	2.90	-49.35	
6,663.00	2.300	29.70	5,826.95	1,714.32	1,925.00	2,577.68	0.30	-0.30	0.30	
6,694.00	1.900	24.40	5,857.93	1,715.33	1,925.52	2,578.74	1.43	-1.29	-17.10	
6,725.00	2.000	37.00	5,888.92	1,716.23	1,926.06	2,579.74	1.42	0.32	40.65	
6,758.00	1.800	40.70	5,921.90	1,717.08	1,926.74	2,580.82	0.71	-0.61	11.21	
6,788.00	1.600	28.40	5,951.88	1,717.81	1,927.25	2,581.68	1.38	-0.67	-41.00	
6,821.00	1.400	32.60	5,984.87	1,718.56	1,927.68	2,582.50	0.69	-0.61	12.73	
6,854.00	1.200	35.40	6,017.86	1,719.18	1,928.10	2,583.22	0.64	-0.61	8.48	
6,949.00	0.900	55.70	6,112.85	1,720.41	1,929.29	2,584.93	0.50	-0.32	21.37	
7,044.00	0.800	119.70	6,207.84	1,720.50	1,930.49	2,585.89	0.95	-0.11	67.37	
7,139.00	1.100	182.60	6,302.83	1,719.26	1,931.02	2,585.47	1.08	0.32	66.21	
7,234.00	0.500	215.80	6,397.82	1,718.01	1,930.74	2,584.43	0.77	-0.63	34.95	
7,328.00	1.000	197.70	6,491.81	1,716.90	1,930.25	2,583.32	0.58	0.53	-19.26	
7,423.00	1.200	1.40	6,586.81	1,717.10	1,930.02	2,583.29	2.29	0.21	172.32	
7,518.00	0.400	328.60	6,681.80	1,718.38	1,929.87	2,584.02	0.94	-0.84	-34.53	
7,612.00	0.900	266.30	6,775.79	1,718.61	1,928.96	2,583.50	0.85	0.53	-66.28	
7,707.00	1.800	226.40	6,870.77	1,717.54	1,927.14	2,581.42	1.32	0.95	-42.00	
7,802.00	3.100	244.50	6,965.68	1,715.40	1,923.74	2,577.46	1.58	1.37	19.05	
7,897.00	1.300	271.40	7,060.61	1,714.32	1,920.34	2,574.20	2.13	-1.89	28.32	
7,992.00	1.100	291.10	7,155.59	1,714.68	1,918.42	2,572.99	0.48	-0.21	20.74	
8,087.00	1.800	231.90	7,250.56	1,714.08	1,916.39	2,571.08	1.64	0.74	-62.32	
8,192.00	1.800	258.40	7,355.51	1,712.74	1,913.48	2,568.00	0.79	0.00	25.24	
8,570.00	1.800	220.00	7,733.34	1,706.99	1,903.85	2,556.98	0.31	0.00	-10.16	

Design Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
756.00	755.96	-4.88	4.63	End of Gyro Surveys	
4,297.00	3,701.59	1,162.77	1,299.46	As of Jan 9	
5,998.00	5,163.32	1,685.74	1,896.69	As of Jan 10	
7,328.00	6,491.81	1,716.90	1,930.25	As of Jan 11	
8,570.00	7,733.34	1,706.99	1,903.85	Projected TD	

Checked By: _____	Approved By: _____	Date: _____
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