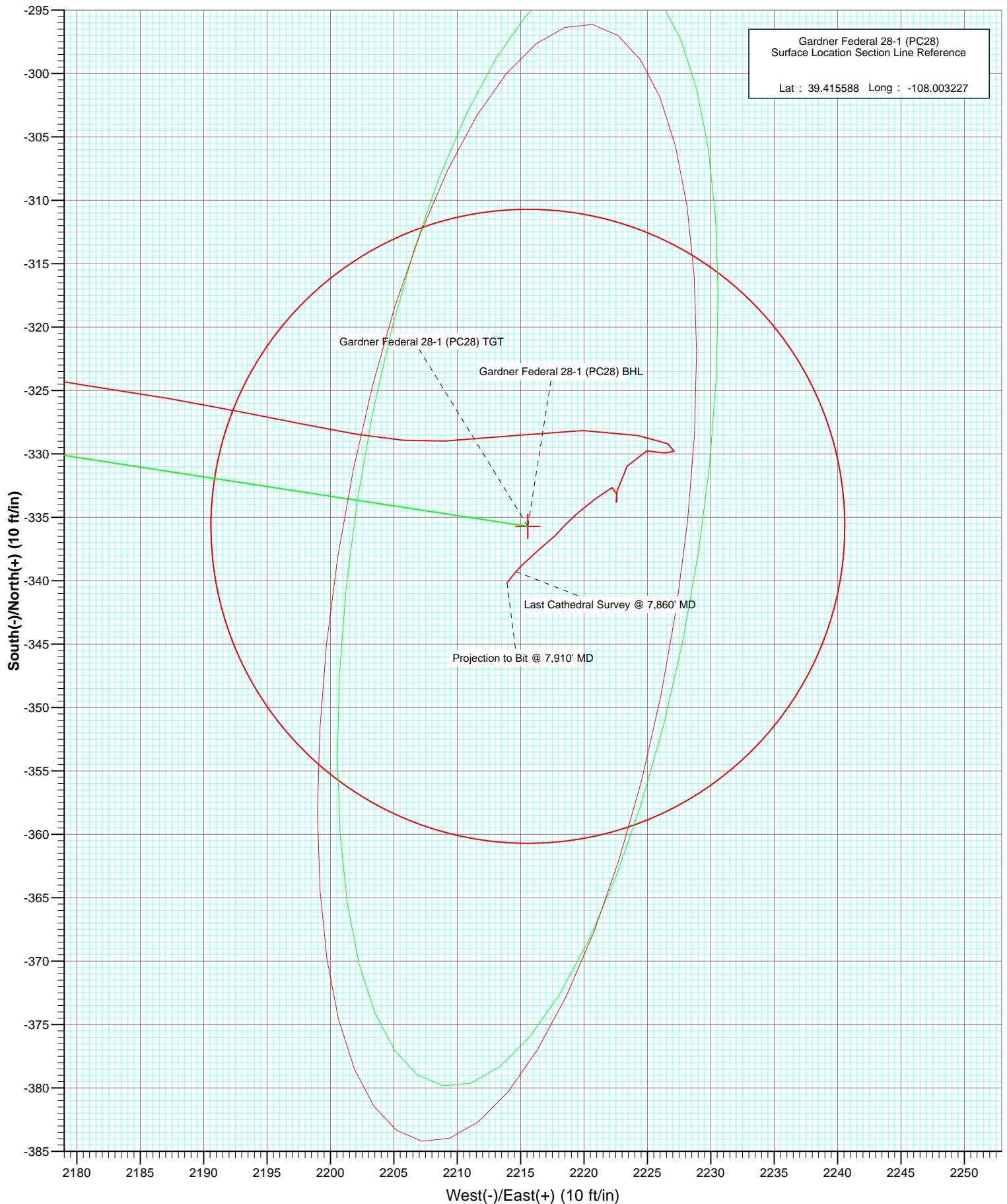


Azimuths to True North
 Magnetic North: 10.22°

Magnetic Field
 Strength: 52107.3snT
 Dip Angle: 65.65°
 Date: 5/22/2012
 Model: IGRF2010

FINAL Gardner Federal 28-1 (PC28) 125324/160755 (SH) 125349/170255 (MH); SC					
KBE @ 6442.0ft (Nabors M13) North American Datum 1983 Well Gardner Federal 28-1 (PC28), True North					
Target	Target	Azimuth	Origin Type	N/S	
Name	TVD	+N/-S	+E/-W	Latitude	Longitude
Gardner Federal 28-1 (PC28) TGT	5578.0	-335.7	2215.6	39.414666	-107.995385
Gardner Federal 28-1 (PC28) BHL	7363.0	-335.7	2215.6	39.414666	-107.995385



Survey Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Gardner Federal 28-1 (PC28)
Project:	S. Piceance (Parachute)	TVD Reference:	KBE @ 6442.0ft (Nabors M13)
Site:	NENW Sec28-T7S-R95W (PC-28)	MD Reference:	KBE @ 6442.0ft (Nabors M13)
Well:	Gardner Federal 28-1 (PC28)	North Reference:	True
Wellbore:	DD	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	USA EDM 5000 Multi Users DB

Project	S. Piceance (Parachute), Garfield County, CO		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Central Zone		

Site		NENW Sec28-T7S-R95W (PC-28)			
Site Position:		Northing:	1,585,994.78 ft	Latitude:	39.415560
From:	Lat/Long	Easting:	2,292,840.18 ft	Longitude:	-108.003350
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	-1.58 °

Well	Gardner Federal 28-1 (PC28)					
Well Position	+N/-S	0.0 ft	Northing:	1,586,004.01 ft	Latitude:	39.415588
	+E/-W	0.0 ft	Easting:	2,292,875.19 ft	Longitude:	-108.003227
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	6,420.0 ft

Wellbore	DD				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	5/22/2012	10.22	65.65	52,107

Design	FINAL				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(ft)	(ft)	(ft)	(°)	
	0.0	0.0	0.0	98.62	

Survey Program	Date	6/20/2012			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
111.0	1,166.0	Survey #1 (DD)	MWD	Geolink MWD	
1,264.0	7,910.0	Survey #2 (DD)	MWD	Geolink MWD	

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Formations / Comments	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00		
111.0	0.30	289.40	111.0	0.1	-0.3	-0.3	0.27	0.27		
142.0	0.50	267.50	142.0	0.1	-0.5	-0.5	0.80	0.65		
173.0	0.50	250.50	173.0	0.1	-0.7	-0.7	0.48	0.00		
203.0	0.50	247.80	203.0	0.0	-1.0	-1.0	0.08	0.00		
234.0	0.40	197.50	234.0	-0.2	-1.2	-1.1	1.27	-0.32		
265.0	0.80	153.50	265.0	-0.5	-1.1	-1.0	1.88	1.29		
296.0	1.10	129.50	296.0	-0.9	-0.8	-0.6	1.59	0.97		
326.0	1.60	118.30	326.0	-1.2	-0.2	0.0	1.88	1.67		
357.0	2.40	109.90	357.0	-1.7	0.8	1.1	2.74	2.58		
388.0	3.00	106.70	387.9	-2.1	2.2	2.5	1.99	1.94		
481.0	5.30	96.70	480.7	-3.3	8.8	9.2	2.58	2.47		

Survey Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Gardner Federal 28-1 (PC28)
Project:	S. Piceance (Parachute)	TVD Reference:	KBE @ 6442.0ft (Nabors M13)
Site:	NENW Sec28-T7S-R95W (PC-28)	MD Reference:	KBE @ 6442.0ft (Nabors M13)
Well:	Gardner Federal 28-1 (PC28)	North Reference:	True
Wellbore:	DD	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	USA EDM 5000 Multi Users DB

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Formations / Comments
573.0	8.00	98.30	572.1	-4.7	19.4	19.9	2.94	2.93	
666.0	11.30	98.30	663.7	-7.0	34.8	35.4	3.55	3.55	
758.0	14.10	95.50	753.5	-9.4	54.9	55.7	3.12	3.04	
850.0	17.00	96.30	842.1	-11.9	79.4	80.3	3.16	3.15	
941.0	19.90	97.90	928.4	-15.5	108.0	109.1	3.23	3.19	
1,034.0	23.30	99.00	1,014.9	-20.6	141.8	143.3	3.68	3.66	
1,130.0	25.40	97.90	1,102.3	-26.4	181.0	182.9	2.24	2.19	
1,166.0	25.60	97.80	1,134.8	-28.5	196.3	198.4	0.57	0.56	
1,264.0	25.40	95.40	1,223.3	-33.3	238.2	240.5	1.07	-0.20	
1,360.0	26.40	95.50	1,309.6	-37.3	280.0	282.4	1.04	1.04	
1,455.0	28.10	99.90	1,394.1	-43.2	323.0	325.9	2.77	1.79	
1,550.0	28.00	97.60	1,477.9	-50.0	367.2	370.5	1.14	-0.11	
1,646.0	27.90	99.60	1,562.7	-56.7	411.7	415.5	0.98	-0.10	
1,741.0	27.00	100.60	1,647.0	-64.4	454.8	459.3	1.06	-0.95	
1,836.0	27.80	98.30	1,731.4	-71.5	497.9	503.0	1.40	0.84	
1,931.0	27.20	98.10	1,815.6	-77.8	541.3	546.9	0.64	-0.63	
2,026.0	28.10	99.40	1,899.8	-84.5	584.9	590.9	1.14	0.95	
2,122.0	27.90	96.30	1,984.6	-90.7	629.5	636.0	1.53	-0.21	
2,217.0	27.30	100.50	2,068.8	-97.1	673.0	680.0	2.14	-0.63	
2,311.0	26.70	100.10	2,152.5	-104.7	715.0	722.6	0.67	-0.64	
2,406.0	27.50	104.00	2,237.1	-113.8	757.3	765.8	2.05	0.84	
2,501.0	27.10	100.00	2,321.5	-122.8	799.9	809.3	1.98	-0.42	
2,596.0	26.80	100.40	2,406.2	-130.5	842.3	852.3	0.37	-0.32	
2,692.0	26.90	99.90	2,491.8	-138.1	885.0	895.7	0.26	0.10	
2,787.0	27.90	97.60	2,576.2	-144.7	928.2	939.4	1.53	1.05	
2,882.0	28.40	99.70	2,660.0	-151.5	972.5	984.2	1.17	0.53	
2,977.0	29.40	96.50	2,743.1	-157.9	1,017.9	1,030.1	1.94	1.05	
3,072.0	28.90	95.80	2,826.1	-162.9	1,063.9	1,076.3	0.64	-0.53	
3,168.0	27.60	97.20	2,910.7	-168.0	1,109.1	1,121.7	1.52	-1.35	
3,263.0	27.50	96.80	2,994.9	-173.4	1,152.7	1,165.6	0.22	-0.11	
3,358.0	28.90	97.00	3,078.6	-178.8	1,197.2	1,210.5	1.48	1.47	
3,454.0	27.70	96.50	3,163.1	-184.1	1,242.4	1,256.0	1.27	-1.25	
3,547.0	28.80	96.40	3,245.1	-189.1	1,286.2	1,300.0	1.18	1.18	
3,642.0	28.30	95.00	3,328.5	-193.6	1,331.4	1,345.3	0.88	-0.53	
3,738.0	27.50	94.70	3,413.3	-197.4	1,376.1	1,390.2	0.85	-0.83	
3,833.0	28.20	97.40	3,497.3	-202.1	1,420.2	1,434.5	1.52	0.74	
3,929.0	28.00	100.10	3,582.0	-208.9	1,464.9	1,479.7	1.34	-0.21	
4,024.0	27.20	99.50	3,666.2	-216.4	1,508.3	1,523.7	0.89	-0.84	
4,119.0	27.80	98.20	3,750.5	-223.2	1,551.6	1,567.6	0.89	0.63	
4,214.0	26.90	98.10	3,834.9	-229.4	1,594.8	1,611.2	0.95	-0.95	
4,309.0	28.30	100.10	3,919.1	-236.3	1,638.3	1,655.2	1.77	1.47	
4,404.0	27.10	98.80	4,003.2	-243.6	1,681.8	1,699.4	1.41	-1.26	
4,500.0	27.00	99.70	4,088.7	-250.6	1,724.9	1,743.0	0.44	-0.10	
4,595.0	26.90	97.80	4,173.4	-257.2	1,767.5	1,786.1	0.91	-0.11	
4,690.0	24.70	99.80	4,258.9	-263.5	1,808.3	1,827.4	2.49	-2.32	
4,785.0	24.00	95.90	4,345.4	-268.8	1,847.1	1,866.5	1.85	-0.74	
4,880.0	25.10	96.20	4,431.8	-273.0	1,886.4	1,906.0	1.17	1.16	
4,974.0	26.10	98.30	4,516.6	-278.1	1,926.6	1,946.6	1.44	1.06	
5,069.0	25.30	100.10	4,602.2	-284.7	1,967.3	1,987.8	1.18	-0.84	
5,164.0	21.00	101.70	4,689.6	-291.7	2,004.0	2,025.1	4.57	-4.53	
5,260.0	20.40	99.30	4,779.4	-297.9	2,037.3	2,059.0	1.08	-0.62	
5,355.0	19.70	99.50	4,868.6	-303.2	2,069.5	2,091.5	0.74	-0.74	
5,450.0	17.20	98.30	4,958.7	-307.9	2,099.2	2,121.6	2.66	-2.63	

Survey Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Gardner Federal 28-1 (PC28)
Project:	S. Piceance (Parachute)	TVD Reference:	KBE @ 6442.0ft (Nabors M13)
Site:	NENW Sec28-T7S-R95W (PC-28)	MD Reference:	KBE @ 6442.0ft (Nabors M13)
Well:	Gardner Federal 28-1 (PC28)	North Reference:	True
Wellbore:	DD	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	USA EDM 5000 Multi Users DB

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Formations / Comments
5,545.0	15.20	101.00	5,049.9	-312.3	2,125.3	2,148.1	2.25	-2.11	
5,639.0	12.60	104.90	5,141.2	-317.3	2,147.3	2,170.6	2.94	-2.77	
5,734.0	10.30	102.40	5,234.3	-321.8	2,165.6	2,189.4	2.48	-2.42	
5,829.0	8.30	98.30	5,328.0	-324.6	2,180.7	2,204.7	2.22	-2.11	
5,925.0	6.50	101.40	5,423.2	-326.7	2,192.9	2,217.1	1.92	-1.87	
6,020.0	4.80	100.20	5,517.8	-328.4	2,202.1	2,226.4	1.79	-1.79	
6,081.1	4.07	92.57	5,578.7	-329.0	2,206.7	2,231.1	1.54	-1.20	Gardner Federal 28-1 (PC28) TGT
6,115.0	3.70	87.10	5,612.5	-329.0	2,209.0	2,233.4	1.54	-1.08	
6,210.0	3.30	83.80	5,707.3	-328.5	2,214.8	2,239.0	0.47	-0.42	
6,305.0	2.90	87.80	5,802.2	-328.2	2,219.9	2,244.0	0.48	-0.42	
6,401.0	2.30	104.50	5,898.1	-328.5	2,224.2	2,248.3	1.00	-0.62	
6,496.0	0.70	108.50	5,993.0	-329.2	2,226.6	2,250.8	1.69	-1.68	
6,591.0	0.50	187.90	6,088.0	-329.8	2,227.1	2,251.4	0.82	-0.21	
6,686.0	0.90	293.20	6,183.0	-329.9	2,226.4	2,250.7	1.20	0.42	
6,781.0	0.90	259.10	6,278.0	-329.8	2,225.0	2,249.2	0.56	0.00	
6,876.0	1.60	217.70	6,373.0	-331.0	2,223.4	2,247.9	1.16	0.74	
6,971.0	1.10	178.80	6,468.0	-332.9	2,222.6	2,247.4	1.07	-0.53	
7,067.0	0.10	280.20	6,564.0	-333.8	2,222.6	2,247.5	1.17	-1.04	
7,161.0	0.80	9.50	6,658.0	-333.2	2,222.6	2,247.4	0.86	0.74	
7,257.0	0.60	252.10	6,754.0	-332.7	2,222.2	2,247.0	1.25	-0.21	
7,352.0	1.30	228.20	6,849.0	-333.5	2,220.9	2,245.8	0.83	0.74	
7,447.0	0.90	236.30	6,943.9	-334.7	2,219.5	2,244.6	0.45	-0.42	
7,543.0	0.70	214.60	7,039.9	-335.6	2,218.6	2,243.8	0.37	-0.21	
7,638.0	0.80	230.80	7,134.9	-336.5	2,217.7	2,243.1	0.25	0.11	
7,733.0	1.10	228.00	7,229.9	-337.5	2,216.5	2,242.1	0.32	0.32	
7,829.0	1.20	226.70	7,325.9	-338.8	2,215.1	2,240.9	0.11	0.10	
7,860.0	1.30	218.80	7,356.9	-339.3	2,214.6	2,240.5	0.64	0.32	Last Cathedral Survey @ 7,860' MD - Gardner F Projection to Bit @ 7,910' MD
7,910.0	1.30	218.80	7,406.9	-340.2	2,213.9	2,239.9	0.00	0.00	

Targets									
Target Name	- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude Longitude
Gardner Federal 28-1 (P	- actual wellpath misses target center by 11.1ft at 6081.1ft MD (5578.7 TVD, -329.0 N, 2206.7 E)	0.00	358.43	5,578.0	-335.7	2,215.6	1,585,607.39	2,295,080.68	39.414666 -107.995385
- Point									
Gardner Federal 28-1 (P	- actual wellpath misses target center by 7.1ft at 7860.0ft MD (7356.9 TVD, -339.3 N, 2214.6 E)	0.00	358.43	7,363.0	-335.7	2,215.6	1,585,607.39	2,295,080.68	39.414666 -107.995385
- Circle (radius 25.0)									

Design Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
7,860.0	7,356.9	-339.3	2,214.6	Last Cathedral Survey @ 7,860' MD	
7,910.0	7,406.9	-340.2	2,213.9	Projection to Bit @ 7,910' MD	

Checked By: _____ Approved By: _____ Date: _____