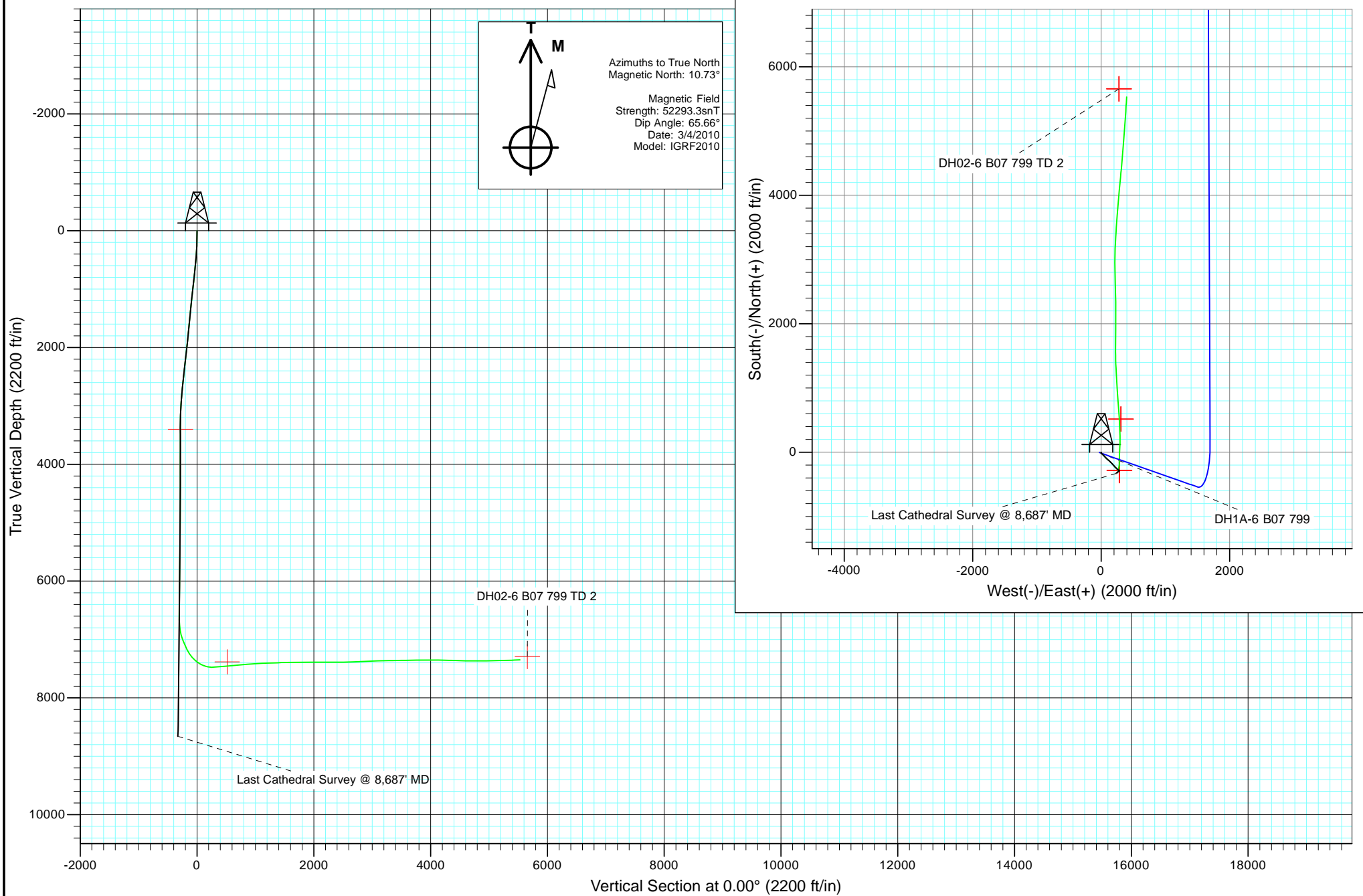




Project: Kimball Mtn (799 Pads)
Site: Section 7 (B07 799)
Well: DH02-6 B07 799
Wellbore: VH
Design: FINAL



Cathedral Energy Services

Survey Report

Company: EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference: Well DH02-6 B07 799
Project: Kimball Mtn (799 Pads)	TVD Reference: WELL @ 6670.0ft (Patterson 303)
Site: Section 7 (B07 799)	MD Reference: WELL @ 6670.0ft (Patterson 303)
Well: DH02-6 B07 799	North Reference: True
Wellbore: VH	Survey Calculation Method: Minimum Curvature
Design: VH	Database: USA EDM 5000 Multi Users DB

Project Kimball Mtn (799 Pads)		
Map System: US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum: North American Datum 1983		
Map Zone: Colorado Central Zone		

Site Section 7 (B07 799)				
Site Position:	Northing:	1,609,095.96 ft	Latitude:	39° 28' 4.09 N
From: Lat/Long	Easting:	2,158,273.04 ft	Longitude:	108° 28' 55.50 W
Position Uncertainty: 0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	-1.88 °

Well DH02-6 B07 799				
Well Position	+N/-S	0.0 ft	Northing:	1,609,095.94 ft
	+E/-W	0.0 ft	Easting:	2,158,273.04 ft
			Latitude:	39° 28' 4.09 N
			Longitude:	108° 28' 55.50 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft
			Ground Level:	6,648.0 ft

Wellbore VH					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	3/4/2010	10.73	65.66	52,293

Design VH				
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	0.00

Survey Program		Date 12/6/2010
From (ft)	To (ft)	Survey (Wellbore)
230.0	8,687.0	Survey #1 (VH)
		Tool Name MWD
		Description Geolink MWD

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	
230.0	1.50	200.00	230.0	-2.8	-1.0	-2.8	0.65	0.65	
260.0	1.80	173.30	260.0	-3.7	-1.1	-3.7	2.72	1.00	
291.0	2.70	162.30	290.9	-4.8	-0.8	-4.8	3.21	2.90	
320.0	3.20	160.60	319.9	-6.3	-0.4	-6.3	1.75	1.72	
350.0	4.00	153.50	349.8	-8.0	0.4	-8.0	3.05	2.67	
382.0	4.50	148.80	381.8	-10.1	1.5	-10.1	1.90	1.56	
413.0	5.40	143.50	412.6	-12.3	3.0	-12.3	3.25	2.90	
445.0	6.50	136.30	444.5	-14.8	5.2	-14.8	4.15	3.44	
474.0	7.00	136.90	473.3	-17.3	7.5	-17.3	1.74	1.72	
508.0	7.80	135.90	507.0	-20.4	10.5	-20.4	2.38	2.35	
553.0	8.00	132.00	551.6	-24.7	15.0	-24.7	1.27	0.44	
599.0	8.50	132.00	597.1	-29.1	19.9	-29.1	1.09	1.09	

Cathedral Energy Services

Survey Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well DH02-6 B07 799
Project:	Kimball Mtn (799 Pads)	TD Reference:	WELL @ 6670.0ft (Patterson 303)
Site:	Section 7 (B07 799)	MVD Reference:	WELL @ 6670.0ft (Patterson 303)
Well:	DH02-6 B07 799	North Reference:	True
Wellbore:	VH	Survey Calculation Method:	Minimum Curvature
Design:	VH	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
645.0	8.00	135.30	642.6	-33.7	24.7	-33.7	1.50	-1.09	
690.0	8.30	134.80	687.1	-38.2	29.2	-38.2	0.69	0.67	
736.0	8.00	135.40	732.7	-42.8	33.8	-42.8	0.68	-0.65	
782.0	8.40	136.50	778.2	-47.5	38.4	-47.5	0.93	0.87	
827.0	8.50	139.20	822.7	-52.4	42.8	-52.4	0.91	0.22	
873.0	8.40	139.00	868.2	-57.6	47.2	-57.6	0.23	-0.22	
925.0	8.40	137.50	919.7	-63.2	52.3	-63.2	0.42	0.00	
965.0	8.80	138.00	959.2	-67.6	56.3	-67.6	1.02	1.00	
1,056.0	8.40	141.10	1,049.2	-78.0	65.1	-78.0	0.67	-0.44	
1,148.0	8.60	130.80	1,140.2	-87.7	74.6	-87.7	1.67	0.22	
1,239.0	9.60	131.40	1,230.0	-97.2	85.4	-97.2	1.10	1.10	
1,331.0	8.90	128.90	1,320.8	-106.7	96.7	-106.7	0.88	-0.76	
1,422.0	8.10	131.80	1,410.8	-115.4	106.9	-115.4	1.00	-0.88	
1,513.0	8.10	135.40	1,500.9	-124.3	116.2	-124.3	0.56	0.00	
1,605.0	8.90	129.60	1,591.9	-133.4	126.3	-133.4	1.27	0.87	
1,699.0	8.30	135.00	1,684.9	-142.8	136.7	-142.8	1.07	-0.64	
1,788.0	8.40	131.70	1,772.9	-151.7	146.1	-151.7	0.55	0.11	
1,800.0	8.50	132.20	1,784.8	-152.9	147.4	-152.9	1.03	0.83	
1,869.0	8.00	134.60	1,853.1	-159.7	154.6	-159.7	0.88	-0.72	
1,961.0	7.90	141.50	1,944.2	-169.1	163.1	-169.1	1.04	-0.11	
2,144.0	9.10	136.90	2,125.2	-189.5	180.8	-189.5	0.75	0.66	
2,235.0	8.30	135.80	2,215.1	-199.5	190.3	-199.5	0.90	-0.88	
2,326.0	7.80	137.80	2,305.2	-208.8	199.0	-208.8	0.63	-0.55	
2,418.0	8.40	138.80	2,396.3	-218.5	207.6	-218.5	0.67	0.65	
2,510.0	8.30	136.90	2,487.4	-228.4	216.6	-228.4	0.32	-0.11	
2,601.0	9.40	133.20	2,577.3	-238.3	226.5	-238.3	1.36	1.21	
2,693.0	9.60	132.00	2,668.0	-248.5	237.7	-248.5	0.31	0.22	
2,784.0	8.20	132.20	2,757.9	-258.0	248.1	-258.0	1.54	-1.54	
2,876.0	7.30	127.80	2,849.1	-266.0	257.6	-266.0	1.17	-0.98	
2,967.0	5.90	129.30	2,939.5	-272.5	265.8	-272.5	1.55	-1.54	
3,058.0	4.20	131.60	3,030.1	-277.6	271.9	-277.6	1.88	-1.87	
3,150.0	2.70	123.10	3,121.9	-281.1	276.2	-281.1	1.72	-1.63	
3,241.0	1.20	154.70	3,212.9	-283.1	278.4	-283.1	1.97	-1.65	
3,333.0	1.20	191.40	3,304.9	-284.9	278.7	-284.9	0.82	0.00	
3,424.0	1.10	51.10	3,395.9	-285.3	279.1	-285.3	2.38	-0.11	
3,515.0	1.00	62.90	3,486.8	-284.4	280.5	-284.4	0.26	-0.11	
3,607.0	0.50	100.60	3,578.8	-284.1	281.6	-284.1	0.74	-0.54	
3,699.0	0.50	124.20	3,670.8	-284.4	282.4	-284.4	0.22	0.00	
3,790.0	0.70	190.90	3,761.8	-285.2	282.6	-285.2	0.75	0.22	
3,882.0	1.10	206.70	3,853.8	-286.5	282.1	-286.5	0.51	0.43	
3,973.0	0.00	131.40	3,944.8	-287.3	281.7	-287.3	1.21	-1.21	
4,065.0	0.50	55.00	4,036.8	-287.0	282.0	-287.0	0.54	0.54	
4,156.0	0.60	36.90	4,127.8	-286.4	282.6	-286.4	0.22	0.11	
4,248.0	0.30	79.00	4,219.8	-286.0	283.2	-286.0	0.46	-0.33	
4,339.0	0.50	34.50	4,310.8	-285.6	283.6	-285.6	0.39	0.22	
4,431.0	0.30	116.80	4,402.8	-285.4	284.1	-285.4	0.60	-0.22	
4,522.0	0.20	208.60	4,493.8	-285.7	284.2	-285.7	0.40	-0.11	
4,614.0	0.00	161.50	4,585.8	-285.8	284.1	-285.8	0.22	-0.22	
4,705.0	0.70	209.10	4,676.8	-286.3	283.9	-286.3	0.77	0.77	
4,797.0	0.70	236.60	4,768.8	-287.1	283.1	-287.1	0.36	0.00	
4,888.0	1.40	229.50	4,859.8	-288.1	281.8	-288.1	0.78	0.77	
4,980.0	1.10	181.70	4,951.8	-289.7	280.9	-289.7	1.14	-0.33	
5,071.0	0.70	154.00	5,042.7	-291.1	281.1	-291.1	0.64	-0.44	

Cathedral Energy Services

Survey Report

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Project:	Kimball Mtn (799 Pads)	TVD Reference:	WELL @ 6670.0ft (Patterson 303)
Site:	Section 7 (B07 799)	MD Reference:	WELL @ 6670.0ft (Patterson 303)
Well:	DH02-6 B07 799	North Reference:	True
Wellbore:	VH	Survey Calculation Method:	Minimum Curvature
Design:	VH	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
5,163.0	0.40	76.80	5,134.7	-291.5	281.7	-291.5	0.79	-0.33	
5,254.0	0.20	304.70	5,225.7	-291.4	281.9	-291.4	0.61	-0.22	
5,346.0	0.60	265.50	5,317.7	-291.3	281.3	-291.3	0.50	0.43	
5,437.0	0.50	267.40	5,408.7	-291.4	280.4	-291.4	0.11	-0.11	
5,528.0	0.60	223.40	5,499.7	-291.7	279.7	-291.7	0.46	0.11	
5,620.0	1.30	210.60	5,591.7	-293.0	278.8	-293.0	0.79	0.76	
5,711.0	1.90	220.60	5,682.7	-295.0	277.3	-295.0	0.72	0.66	
5,803.0	1.40	229.80	5,774.6	-296.9	275.4	-296.9	0.61	-0.54	
5,894.0	0.80	201.80	5,865.6	-298.2	274.4	-298.2	0.87	-0.66	
5,986.0	0.90	217.40	5,957.6	-299.4	273.7	-299.4	0.27	0.11	
6,077.0	1.20	216.30	6,048.6	-300.7	272.7	-300.7	0.33	0.33	
6,169.0	0.50	213.70	6,140.6	-301.8	271.9	-301.8	0.76	-0.76	
6,260.0	0.80	238.60	6,231.6	-302.5	271.1	-302.5	0.45	0.33	
6,300.0	0.80	228.60	6,271.6	-302.8	270.7	-302.8	0.35	0.00	
6,415.0	0.60	263.20	6,386.6	-303.4	269.5	-303.4	0.40	-0.17	
6,506.0	1.10	248.80	6,477.6	-303.8	268.2	-303.8	0.59	0.55	
6,597.0	1.10	239.90	6,568.5	-304.5	266.6	-304.5	0.19	0.00	
6,688.0	1.00	229.80	6,659.5	-305.5	265.3	-305.5	0.23	-0.11	
6,780.0	1.50	229.80	6,751.5	-306.8	263.7	-306.8	0.54	0.54	
6,871.0	0.50	301.70	6,842.5	-307.4	262.5	-307.4	1.57	-1.10	
6,961.0	1.10	257.50	6,932.5	-307.3	261.3	-307.3	0.91	0.67	
7,052.0	1.00	248.70	7,023.5	-307.8	259.7	-307.8	0.21	-0.11	
7,143.0	1.80	240.40	7,114.4	-308.8	257.7	-308.8	0.90	0.88	
7,234.0	0.40	323.70	7,205.4	-309.3	256.3	-309.3	1.98	-1.54	
7,324.0	0.40	280.60	7,295.4	-308.9	255.8	-308.9	0.33	0.00	
7,415.0	1.20	241.90	7,386.4	-309.3	254.7	-309.3	1.01	0.88	
7,480.0	1.30	222.90	7,451.4	-310.2	253.5	-310.2	0.65	0.15	
7,597.0	0.50	123.10	7,568.4	-311.4	253.1	-311.4	1.26	-0.68	
7,688.0	1.00	189.40	7,659.4	-312.4	253.3	-312.4	1.01	0.55	
7,778.0	1.70	209.00	7,749.4	-314.4	252.5	-314.4	0.92	0.78	
7,869.0	0.10	63.60	7,840.3	-315.5	251.9	-315.5	1.96	-1.76	
7,960.0	0.60	228.30	7,931.3	-315.8	251.6	-315.8	0.77	0.55	
8,051.0	1.30	226.20	8,022.3	-316.8	250.5	-316.8	0.77	0.77	
8,142.0	0.30	215.30	8,113.3	-317.8	249.6	-317.8	1.11	-1.10	
8,233.0	0.80	230.50	8,204.3	-318.4	249.0	-318.4	0.57	0.55	
8,323.0	1.90	229.50	8,294.3	-319.7	247.4	-319.7	1.22	1.22	
8,414.0	1.90	244.30	8,385.2	-321.4	244.9	-321.4	0.54	0.00	
8,505.0	1.90	234.20	8,476.2	-322.9	242.3	-322.9	0.37	0.00	
8,595.0	2.80	229.00	8,566.1	-325.2	239.4	-325.2	1.03	1.00	
8,687.0	3.50	229.40	8,658.0	-328.5	235.6	-328.5	0.76	0.76	Last Cathedral Survey @ 8,687' MD

Cathedral Energy Services

Survey Report

Company: EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference: Well DH02-6 B07 799
Project: Kimball Mtn (799 Pads)	TVD Reference: WELL @ 6670.0ft (Patterson 303)
Site: Section 7 (B07 799)	MD Reference: WELL @ 6670.0ft (Patterson 303)
Well: DH02-6 B07 799	North Reference: True
Wellbore: VH	Survey Calculation Method: Minimum Curvature
Design: VH	Database: USA EDM 5000 Multi Users DB

Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
- Shape									
DH02-6 B07 799 EOD	0.00	0.00	3,400.0	-283.1	285.8	1,608,803.64	2,158,549.37	39° 28' 1.29 N	108° 28' 51.86 W
- survey misses target center by 6.9ft at 3428.3ft MD (3400.1 TVD, -285.2 N, 279.2 E)									
- Point									

Survey Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)	
8,687.0	8,658.0	-328.5	235.6	Last Cathedral Survey @ 8,687' MD

Checked By: _____ Approved By: _____ Date: _____