



Survey Report

Company: EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference: Well Davis 1C-9H
Project: DJ Wattenberg	TVD Reference: KB=13' @ 4928.0ft (Ensign 124)
Site: SWNW S9-T2N-R66W (Davis)	MD Reference: KB=13' @ 4928.0ft (Ensign 124)
Well: Davis 1C-9H	North Reference: True
Wellbore: Hz	Survey Calculation Method: Minimum Curvature
Design: Hz	Database: USA EDM 5000 Multi Users DB

Project DJ Wattenberg	
Map System: US State Plane 1983	System Datum: Mean Sea Level
Geo Datum: North American Datum 1983	
Map Zone: Colorado Northern Zone	

Site SWNW S9-T2N-R66W (Davis)		
Site Position:	Northing: 1,299,903.26 ft	Latitude: 40.154440
From: Lat/Long	Easting: 3,198,510.39 ft	Longitude: -104.789830
Position Uncertainty: 0.0 ft	Slot Radius: 13.200 in	Grid Convergence: 0.46 °

Well Davis 1C-9H			
Well Position +N/-S	0.0 ft	Northing: 1,299,597.18 ft	Latitude: 40.153530
+E/-W	0.0 ft	Easting: 3,201,663.17 ft	Longitude: -104.778560
Position Uncertainty	0.0 ft	Wellhead Elevation: ft	Ground Level: 4,915.0 ft

Wellbore Hz					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	4/9/2012	8.74	66.82	52,913

Design Hz					
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 5/3/2012		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
70.0	850.0	Survey #1 (Hz)	Gyro	Gyro
940.0	7,605.0	Survey #3 (Hz)	Gyro	Gyro
1,008.0	14,495.0	Survey #2 (Hz)	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	
70.0	1.00	185.04	70.0	-0.6	-0.1	-0.6	1.43	1.43	
100.0	0.90	273.24	100.0	-0.9	-0.3	-0.9	4.41	-0.33	
130.0	1.00	261.04	130.0	-0.9	-0.8	-0.9	0.75	0.33	
220.0	1.00	264.94	220.0	-1.1	-2.4	-1.1	0.08	0.00	
310.0	1.20	269.74	310.0	-1.1	-4.1	-1.1	0.24	0.22	
400.0	1.20	271.54	399.9	-1.1	-6.0	-1.1	0.04	0.00	
490.0	1.20	266.54	489.9	-1.2	-7.9	-1.2	0.12	0.00	
580.0	1.30	272.14	579.9	-1.2	-9.8	-1.2	0.18	0.11	
670.0	1.30	270.84	669.9	-1.1	-11.9	-1.1	0.03	0.00	
760.0	1.60	285.84	759.8	-0.8	-14.1	-0.8	0.53	0.33	

Survey Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Davis 1C-9H
Project:	DJ Wattenberg	TVD Reference:	KB=13' @ 4928.0ft (Ensign 124)
Site:	SWNW S9-T2N-R66W (Davis)	MD Reference:	KB=13' @ 4928.0ft (Ensign 124)
Well:	Davis 1C-9H	North Reference:	True
Wellbore:	Hz	Survey Calculation Method:	Minimum Curvature
Design:	Hz	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
850.0	1.80	290.64	849.8	0.1	-16.6	0.1	0.27	0.22	
940.0	0.80	280.74	939.8	0.7	-18.6	0.7	1.13	-1.11	
1,008.0	0.80	322.70	1,007.8	1.2	-19.3	1.2	0.84	0.00	
1,101.0	0.90	304.60	1,100.8	2.1	-20.3	2.1	0.31	0.11	
1,194.0	1.10	286.90	1,193.8	2.8	-21.8	2.8	0.39	0.22	
1,287.0	0.80	280.70	1,286.7	3.1	-23.3	3.1	0.34	-0.32	
1,380.0	0.80	277.60	1,379.7	3.3	-24.5	3.3	0.05	0.00	
1,473.0	0.50	306.00	1,472.7	3.7	-25.5	3.7	0.46	-0.32	
1,568.0	0.60	296.40	1,567.7	4.1	-26.3	4.1	0.14	0.11	
1,663.0	0.60	295.20	1,662.7	4.6	-27.2	4.6	0.01	0.00	
1,758.0	0.90	327.90	1,757.7	5.4	-28.0	5.4	0.54	0.32	
1,854.0	1.20	333.30	1,853.7	7.0	-28.9	7.0	0.33	0.31	
1,949.0	0.60	102.00	1,948.7	7.7	-28.8	7.7	1.73	-0.63	
2,044.0	0.40	86.90	2,043.7	7.7	-28.0	7.7	0.25	-0.21	
2,139.0	0.50	84.40	2,138.7	7.7	-27.3	7.7	0.11	0.11	
2,234.0	0.80	110.40	2,233.7	7.5	-26.2	7.5	0.44	0.32	
2,329.0	0.90	99.40	2,328.7	7.2	-24.9	7.2	0.20	0.11	
2,425.0	1.10	83.00	2,424.7	7.2	-23.2	7.2	0.36	0.21	
2,456.0	1.10	89.10	2,455.6	7.2	-22.6	7.2	0.38	0.00	
2,552.0	0.50	200.00	2,551.6	6.8	-21.9	6.8	1.42	-0.62	
2,647.0	1.80	230.20	2,646.6	5.5	-23.1	5.5	1.46	1.37	
2,742.0	3.80	240.00	2,741.5	2.9	-27.0	2.9	2.16	2.11	
2,837.0	6.10	245.10	2,836.1	-0.8	-34.3	-0.8	2.46	2.42	
2,932.0	9.40	255.90	2,930.3	-4.8	-46.4	-4.8	3.78	3.47	
3,027.0	12.20	256.50	3,023.6	-9.0	-63.7	-9.0	2.95	2.95	
3,122.0	11.50	248.60	3,116.6	-14.8	-82.3	-14.8	1.86	-0.74	
3,218.0	9.80	245.80	3,210.9	-21.6	-98.7	-21.6	1.85	-1.77	
3,313.0	10.20	241.80	3,304.5	-28.9	-113.5	-28.9	0.84	0.42	
3,408.0	9.90	244.60	3,398.0	-36.4	-128.2	-36.4	0.60	-0.32	
3,471.0	8.50	243.10	3,460.2	-40.8	-137.3	-40.8	2.25	-2.22	
3,535.0	8.60	244.40	3,523.5	-45.1	-145.8	-45.1	0.34	0.16	
3,598.0	9.60	248.60	3,585.7	-49.0	-155.0	-49.0	1.90	1.59	
3,662.0	11.60	250.70	3,648.6	-53.1	-166.0	-53.1	3.18	3.12	
3,757.0	11.00	254.30	3,741.7	-58.7	-183.7	-58.7	0.97	-0.63	
3,852.0	11.00	250.30	3,835.0	-64.2	-201.0	-64.2	0.80	0.00	
3,947.0	13.40	241.80	3,927.9	-72.5	-219.2	-72.5	3.15	2.53	
4,043.0	12.90	248.40	4,021.3	-81.7	-239.0	-81.7	1.65	-0.52	
4,138.0	14.90	247.90	4,113.6	-90.2	-260.2	-90.2	2.11	2.11	
4,233.0	14.60	246.70	4,205.4	-99.5	-282.5	-99.5	0.45	-0.32	
4,328.0	13.30	247.00	4,297.6	-108.5	-303.6	-108.5	1.37	-1.37	
4,423.0	13.70	246.90	4,390.0	-117.2	-324.0	-117.2	0.42	0.42	
4,518.0	12.10	244.80	4,482.6	-125.8	-343.3	-125.8	1.75	-1.68	
4,614.0	12.40	247.00	4,576.4	-134.1	-361.9	-134.1	0.58	0.31	
4,709.0	10.90	244.80	4,669.5	-142.0	-379.4	-142.0	1.65	-1.58	
4,804.0	12.70	252.70	4,762.4	-148.9	-397.5	-148.9	2.54	1.89	
4,899.0	13.80	251.30	4,854.9	-155.6	-418.2	-155.6	1.21	1.16	
4,994.0	12.80	250.60	4,947.4	-162.8	-438.9	-162.8	1.07	-1.05	
5,090.0	14.50	245.50	5,040.7	-171.3	-459.9	-171.3	2.17	1.77	
5,185.0	13.80	245.50	5,132.8	-180.9	-481.0	-180.9	0.74	-0.74	
5,280.0	12.50	244.00	5,225.3	-190.1	-500.5	-190.1	1.41	-1.37	
5,375.0	14.70	241.70	5,317.6	-200.3	-520.4	-200.3	2.38	2.32	
5,470.0	12.90	240.00	5,409.9	-211.3	-540.2	-211.3	1.94	-1.89	
5,565.0	14.10	248.40	5,502.2	-220.9	-560.1	-220.9	2.42	1.26	

Survey Report

Company: EnCana Oil & Gas (USA) Inc
Project: DJ Wattenberg
Site: SWNW S9-T2N-R66W (Davis)
Well: Davis 1C-9H
Wellbore: Hz
Design: Hz

Local Co-ordinate Reference: Well Davis 1C-9H
TVD Reference: KB=13' @ 4928.0ft (Ensign 124)
MD Reference: KB=13' @ 4928.0ft (Ensign 124)
North Reference: True
Survey Calculation Method: Minimum Curvature
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
5,661.0	11.80	248.70	5,595.8	-228.8	-580.2	-228.8	2.40	-2.40	
5,755.0	11.30	252.30	5,687.9	-235.1	-597.9	-235.1	0.93	-0.53	
5,851.0	13.40	254.30	5,781.7	-240.9	-617.6	-240.9	2.23	2.19	
5,946.0	11.10	253.90	5,874.5	-246.5	-637.0	-246.5	2.42	-2.42	
6,041.0	9.80	254.70	5,967.9	-251.1	-653.5	-251.1	1.38	-1.37	
6,136.0	10.70	258.30	6,061.4	-255.0	-670.0	-255.0	1.16	0.95	
6,232.0	11.70	251.40	6,155.6	-260.0	-687.9	-260.0	1.74	1.04	
6,327.0	13.20	247.00	6,248.3	-267.3	-707.0	-267.3	1.87	1.58	
6,422.0	10.40	248.30	6,341.3	-274.7	-725.0	-274.7	2.96	-2.95	
6,517.0	11.30	245.90	6,434.6	-281.7	-741.5	-281.7	1.06	0.95	
6,612.0	11.20	250.20	6,527.8	-288.6	-758.6	-288.6	0.89	-0.11	
6,644.0	10.40	250.10	6,559.2	-290.6	-764.3	-290.6	2.50	-2.50	
6,676.0	9.60	249.20	6,590.8	-292.5	-769.5	-292.5	2.55	-2.50	
6,708.0	10.30	262.80	6,622.3	-293.9	-774.8	-293.9	7.64	2.19	
6,739.0	12.50	278.40	6,652.7	-293.7	-780.9	-293.7	12.16	7.10	
6,771.0	14.10	291.70	6,683.8	-291.8	-787.9	-291.8	10.76	5.00	
6,803.0	15.50	305.70	6,714.8	-287.8	-795.0	-287.8	11.97	4.37	
6,834.0	17.50	317.60	6,744.5	-282.0	-801.5	-282.0	12.64	6.45	
6,866.0	19.50	328.00	6,774.9	-273.9	-807.6	-273.9	12.04	6.25	
6,898.0	21.60	337.50	6,804.8	-263.9	-812.7	-263.9	12.30	6.56	
6,929.0	24.10	344.80	6,833.4	-252.5	-816.6	-252.5	12.18	8.06	
6,961.0	26.90	349.20	6,862.3	-239.1	-819.6	-239.1	10.56	8.75	
6,993.0	30.30	350.60	6,890.4	-224.0	-822.3	-224.0	10.83	10.62	
7,024.0	32.60	351.70	6,916.8	-208.0	-824.8	-208.0	7.65	7.42	
7,056.0	35.60	352.20	6,943.3	-190.3	-827.3	-190.3	9.42	9.37	
7,088.0	37.90	352.40	6,969.0	-171.3	-829.9	-171.3	7.20	7.19	
7,120.0	41.00	351.10	6,993.7	-151.2	-832.8	-151.2	10.03	9.69	
7,151.0	45.00	352.80	7,016.3	-130.3	-835.7	-130.3	13.43	12.90	
7,183.0	47.60	354.40	7,038.4	-107.3	-838.3	-107.3	8.89	8.12	
7,215.0	50.10	355.10	7,059.5	-83.3	-840.5	-83.3	7.98	7.81	
7,246.0	51.90	356.20	7,079.0	-59.3	-842.3	-59.3	6.43	5.81	
7,278.0	54.60	357.10	7,098.1	-33.7	-843.8	-33.7	8.73	8.44	
7,310.0	58.00	357.80	7,115.9	-7.1	-845.0	-7.1	10.78	10.63	
7,341.0	61.20	358.20	7,131.6	19.6	-845.9	19.6	10.38	10.32	
7,373.0	64.70	358.70	7,146.1	48.1	-846.7	48.1	11.03	10.94	
7,405.0	69.40	358.80	7,158.6	77.6	-847.3	77.6	14.69	14.69	
7,437.0	73.50	358.70	7,168.8	107.9	-848.0	107.9	12.82	12.81	
7,468.0	76.90	358.30	7,176.7	137.9	-848.8	137.9	11.04	10.97	
7,500.0	79.80	358.20	7,183.2	169.2	-849.8	169.2	9.07	9.06	
7,532.0	81.50	358.00	7,188.4	200.7	-850.8	200.7	5.35	5.31	
7,564.0	83.30	358.40	7,192.6	232.4	-851.8	232.4	5.76	5.62	
7,595.0	85.00	357.70	7,195.8	263.3	-852.8	263.3	5.93	5.48	
7,605.0	85.60	357.90	7,196.6	273.2	-853.2	273.2	6.32	6.00	
7,683.0	87.80	358.10	7,201.1	351.0	-855.9	351.0	2.83	2.82	
7,714.0	87.60	357.30	7,202.3	382.0	-857.2	382.0	2.66	-0.65	
7,745.0	89.10	357.20	7,203.2	412.9	-858.7	412.9	4.85	4.84	
7,807.0	90.40	359.80	7,203.5	474.9	-860.3	474.9	4.69	2.10	
7,900.0	91.20	0.60	7,202.2	567.9	-860.0	567.9	1.22	0.86	
7,993.0	89.20	0.30	7,201.8	660.9	-859.2	660.9	2.17	-2.15	
8,086.0	88.90	359.30	7,203.4	753.9	-859.6	753.9	1.12	-0.32	
8,180.0	89.10	0.40	7,205.0	847.9	-859.8	847.9	1.19	0.21	
8,273.0	88.60	0.40	7,206.9	940.8	-859.2	940.8	0.54	-0.54	
8,366.0	89.80	1.60	7,208.2	1,033.8	-857.5	1,033.8	1.82	1.29	

Survey Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Davis 1C-9H
Project:	DJ Wattenberg	TVD Reference:	KB=13' @ 4928.0ft (Ensign 124)
Site:	SWNW S9-T2N-R66W (Davis)	MD Reference:	KB=13' @ 4928.0ft (Ensign 124)
Well:	Davis 1C-9H	North Reference:	True
Wellbore:	Hz	Survey Calculation Method:	Minimum Curvature
Design:	Hz	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
8,459.0	88.90	0.10	7,209.2	1,126.8	-856.2	1,126.8	1.88	-0.97	
8,552.0	90.10	0.10	7,210.1	1,219.8	-856.0	1,219.8	1.29	1.29	
8,645.0	90.20	359.40	7,209.8	1,312.8	-856.4	1,312.8	0.76	0.11	
8,738.0	89.80	359.50	7,209.8	1,405.8	-857.3	1,405.8	0.44	-0.43	
8,830.0	89.50	359.00	7,210.4	1,497.8	-858.5	1,497.8	0.63	-0.33	
8,923.0	91.90	359.80	7,209.2	1,590.7	-859.5	1,590.7	2.72	2.58	
9,019.0	91.60	358.80	7,206.3	1,686.7	-860.6	1,686.7	1.09	-0.31	
9,114.0	92.00	358.90	7,203.3	1,781.6	-862.6	1,781.6	0.43	0.42	
9,209.0	91.40	358.80	7,200.5	1,876.6	-864.5	1,876.6	0.64	-0.63	
9,304.0	89.70	358.20	7,199.6	1,971.5	-866.9	1,971.5	1.90	-1.79	
9,399.0	89.40	359.70	7,200.3	2,066.5	-868.7	2,066.5	1.61	-0.32	
9,495.0	91.10	2.80	7,199.9	2,162.5	-866.6	2,162.5	3.68	1.77	
9,590.0	90.50	2.00	7,198.6	2,257.4	-862.6	2,257.4	1.05	-0.63	
9,685.0	91.20	1.10	7,197.2	2,352.3	-860.0	2,352.3	1.20	0.74	
9,780.0	89.80	2.90	7,196.4	2,447.3	-856.7	2,447.3	2.40	-1.47	
9,875.0	88.90	0.40	7,197.4	2,542.2	-854.0	2,542.2	2.80	-0.95	
9,970.0	89.10	359.80	7,199.1	2,637.2	-853.8	2,637.2	0.67	0.21	
10,066.0	89.50	359.90	7,200.3	2,733.2	-854.1	2,733.2	0.43	0.42	
10,161.0	90.00	359.60	7,200.7	2,828.2	-854.5	2,828.2	0.61	0.53	
10,256.0	89.50	0.10	7,201.1	2,923.2	-854.7	2,923.2	0.74	-0.53	
10,351.0	89.80	358.80	7,201.7	3,018.2	-855.7	3,018.2	1.40	0.32	
10,446.0	89.60	357.50	7,202.2	3,113.1	-858.7	3,113.1	1.38	-0.21	
10,542.0	90.20	358.70	7,202.3	3,209.1	-861.9	3,209.1	1.40	0.62	
10,637.0	88.50	359.50	7,203.4	3,304.0	-863.4	3,304.0	1.98	-1.79	
10,732.0	90.10	358.90	7,204.6	3,399.0	-864.7	3,399.0	1.80	1.68	
10,827.0	90.30	359.60	7,204.2	3,494.0	-866.0	3,494.0	0.77	0.21	
10,922.0	90.80	1.20	7,203.3	3,589.0	-865.3	3,589.0	1.76	0.53	
11,018.0	89.60	359.60	7,203.0	3,685.0	-864.6	3,685.0	2.08	-1.25	
11,113.0	89.60	1.70	7,203.7	3,780.0	-863.6	3,780.0	2.21	0.00	
11,208.0	89.80	359.90	7,204.2	3,875.0	-862.2	3,875.0	1.91	0.21	
11,303.0	91.00	359.80	7,203.5	3,970.0	-862.5	3,970.0	1.27	1.26	
11,398.0	90.50	358.90	7,202.3	4,064.9	-863.6	4,064.9	1.08	-0.53	
11,493.0	90.90	358.40	7,201.1	4,159.9	-865.8	4,159.9	0.67	0.42	
11,588.0	90.80	359.50	7,199.7	4,254.9	-867.5	4,254.9	1.16	-0.11	
11,683.0	89.30	1.10	7,199.6	4,349.9	-867.0	4,349.9	2.31	-1.58	
11,779.0	89.10	0.70	7,200.9	4,445.8	-865.5	4,445.8	0.47	-0.21	
11,874.0	89.30	1.20	7,202.3	4,540.8	-864.0	4,540.8	0.57	0.21	
11,969.0	90.00	359.30	7,202.8	4,635.8	-863.5	4,635.8	2.13	0.74	
12,064.0	90.10	358.10	7,202.8	4,730.8	-865.7	4,730.8	1.27	0.11	
12,160.0	90.60	359.00	7,202.2	4,826.8	-868.1	4,826.8	1.07	0.52	
12,255.0	90.10	357.80	7,201.6	4,921.7	-870.8	4,921.7	1.37	-0.53	
12,350.0	90.50	358.20	7,201.1	5,016.7	-874.1	5,016.7	0.60	0.42	
12,445.0	90.40	0.00	7,200.4	5,111.6	-875.6	5,111.6	1.90	-0.11	
12,540.0	90.50	359.70	7,199.6	5,206.6	-875.8	5,206.6	0.33	0.11	
12,635.0	90.50	359.30	7,198.8	5,301.6	-876.7	5,301.6	0.42	0.00	
12,731.0	89.50	2.50	7,198.8	5,397.6	-875.2	5,397.6	3.49	-1.04	
12,826.0	91.00	2.20	7,198.4	5,492.5	-871.3	5,492.5	1.61	1.58	
12,921.0	90.60	2.80	7,197.0	5,587.4	-867.1	5,587.4	0.76	-0.42	
12,985.0	91.40	3.10	7,195.9	5,651.3	-863.8	5,651.3	1.33	1.25	
13,048.0	89.80	3.10	7,195.3	5,714.2	-860.4	5,714.2	2.54	-2.54	
13,111.0	89.90	3.30	7,195.4	5,777.1	-856.9	5,777.1	0.35	0.16	
13,174.0	88.20	3.20	7,196.5	5,840.0	-853.3	5,840.0	2.70	-2.70	
13,238.0	88.70	1.40	7,198.2	5,903.9	-850.8	5,903.9	2.92	0.78	

Survey Report

Company: EnCana Oil & Gas (USA) Inc
Project: DJ Wattenberg
Site: SWNW S9-T2N-R66W (Davis)
Well: Davis 1C-9H
Wellbore: Hz
Design: Hz

Local Co-ordinate Reference: Well Davis 1C-9H
TVD Reference: KB=13' @ 4928.0ft (Ensign 124)
MD Reference: KB=13' @ 4928.0ft (Ensign 124)
North Reference: True
Survey Calculation Method: Minimum Curvature
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
13,301.0	89.10	0.40	7,199.4	5,966.9	-849.8	5,966.9	1.71	0.63	
13,396.0	89.90	0.00	7,200.2	6,061.9	-849.4	6,061.9	0.94	0.84	
13,491.0	89.90	358.80	7,200.4	6,156.9	-850.4	6,156.9	1.26	0.00	
13,587.0	90.50	359.20	7,200.1	6,252.9	-852.1	6,252.9	0.75	0.62	
13,682.0	90.40	359.00	7,199.3	6,347.9	-853.6	6,347.9	0.24	-0.11	
13,777.0	90.10	358.10	7,198.9	6,442.8	-856.0	6,442.8	1.00	-0.32	
13,872.0	89.80	358.80	7,199.0	6,537.8	-858.6	6,537.8	0.80	-0.32	
13,967.0	90.10	358.00	7,199.1	6,632.8	-861.2	6,632.8	0.90	0.32	
14,061.0	90.50	357.50	7,198.6	6,726.7	-864.9	6,726.7	0.68	0.43	
14,156.0	90.60	359.60	7,197.7	6,821.6	-867.3	6,821.6	2.21	0.11	
14,251.0	91.40	357.50	7,196.0	6,916.6	-869.7	6,916.6	2.37	0.84	
14,346.0	92.00	358.30	7,193.2	7,011.5	-873.2	7,011.5	1.05	0.63	
14,445.0	92.90	358.30	7,189.0	7,110.4	-876.1	7,110.4	0.91	0.91	Last Cathedral Survey @ 14,445' MD
14,495.0	93.35	358.30	7,186.2	7,160.2	-877.6	7,160.2	0.90	0.90	Projection to Bit @ 14,495'

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Davis 1C-9H PBHL (4.1; - hit/miss target - Shape	0.00	0.00	7,203.0	7,089.0	-874.7	1,306,678.79	3,200,730.87	40.172990	-104.781690
- actual wellpath misses target center by 13.0ft at 14423.0ft MD (7190.0 TVD, 7088.4 N, -875.5 E)									
- Point									

Design Annotations				
Measured Depth (ft)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
14,445.0	7,189.0	7,110.4	-876.1	Last Cathedral Survey @ 14,445' MD
14,495.0	7,186.2	7,160.2	-877.6	Projection to Bit @ 14,495'

Checked By: _____ Approved By: _____ Date: _____