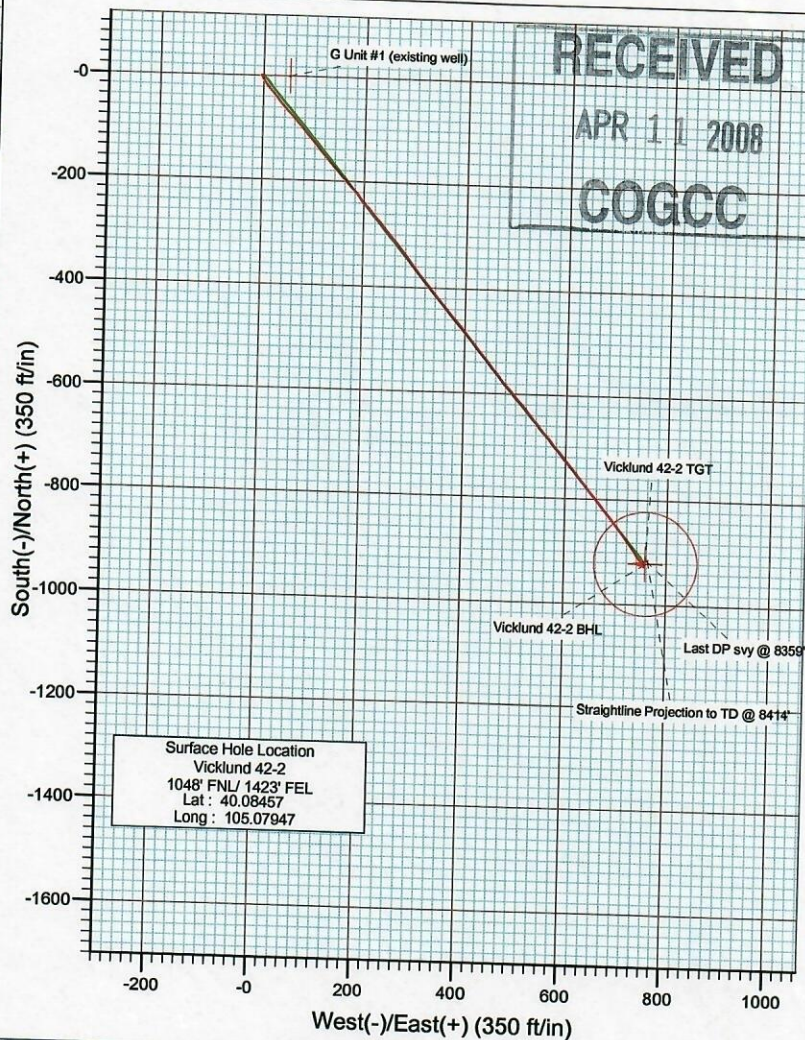
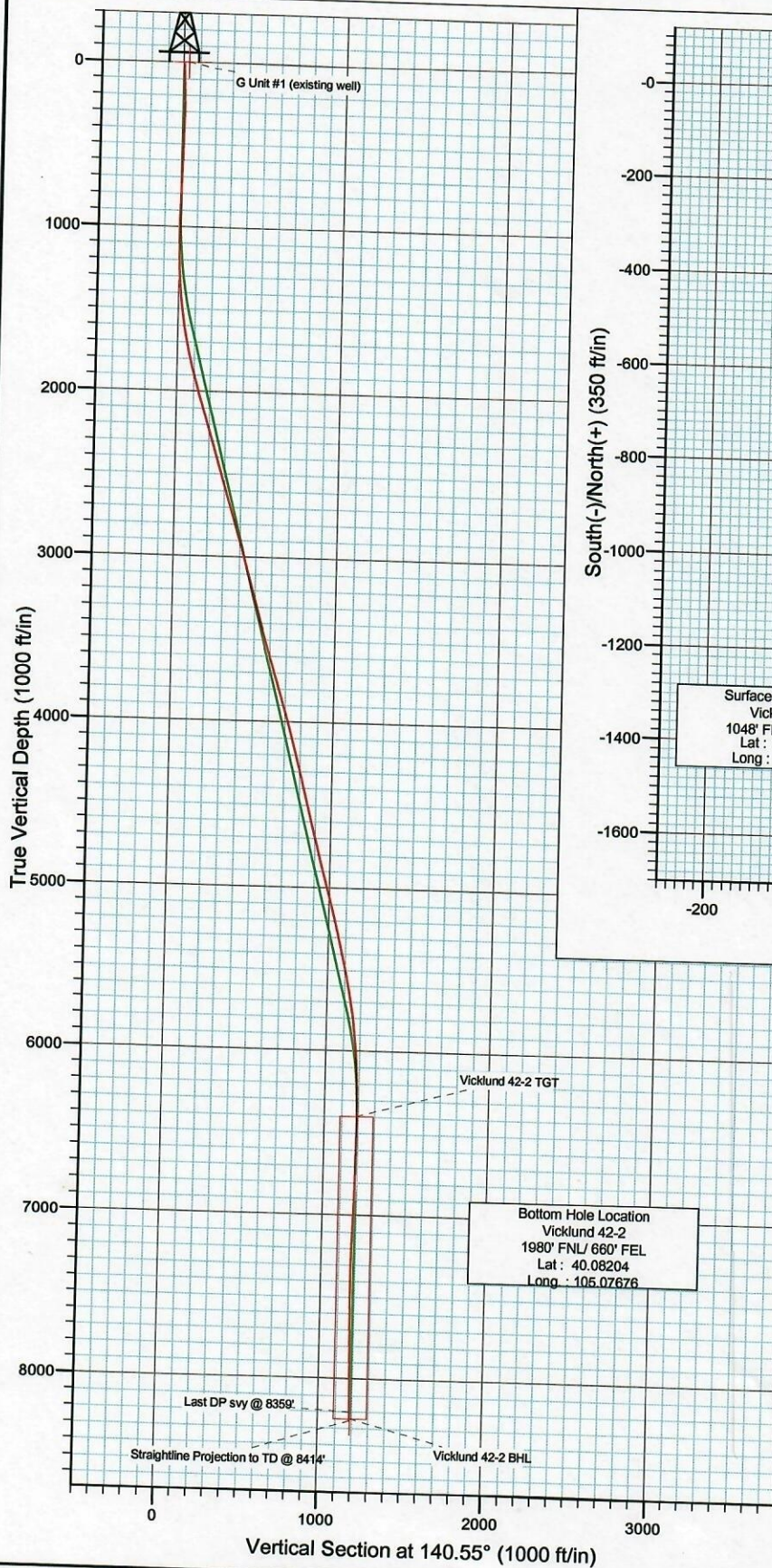




013-06554 (S)
 Project: DJ Wattenberg
 Site: SENE S2-T1N-R69W
 Well: Vicklund 42-2
 Wellbore: DD
 Design: Final Survey



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Azimuths to True North
 Magnetic North: 9.42°

Magnetic Field
 Strength: 53293.3snT
 Dip Angle: 66.86°
 Date: 2/19/2008
 Model: IGRF200510

DESIGN DETAILS: DD

85090; BAO
 KBE @ 5061.0ft (Original Well Elev)

Target	Azimuth	Origin	N/S	E/W	From TVD
Vicklund 42-2 BHL	140.55	Slot	0.0	0.0	0.0

Cathedral Energy Services

Survey Report



Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Vicklund 42-2
Project:	DJ Wattenberg	TVD Reference:	KBE @ 5061.0ft (Original Well Elev)
Site:	SENE S2-T1N-R69W	MD Reference:	KBE @ 5061.0ft (Original Well Elev)
Well:	Vicklund 42-2	North Reference:	True
Wellbore:	DD	Survey Calculation Method:	Minimum Curvature
Design:	DD	Database:	EDM 2003.16 US Multi User 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		SENE S2-T1N-R69W			
Site Position:		Northing:		Latitude:	
From:	Lat/Long	Easting:	1,273,932.62 ft	Longitude:	40.0845700
Position Uncertainty:	0.0 ft	Slot Radius:	3,117,666.45 ft	Grid Convergence:	-105.0794700
			"		0.27 °

Well	Vicklund 42-2					
Well Position	+N/-S	0.0 ft	Northing:	1,273,932.62 ft	Latitude:	40.0845700
	+E/-W	0.0 ft	Easting:	3,117,666.45 ft	Longitude:	-105.0794700
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	5,045.0 ft

Wellbore	DD				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	2/19/2008	9.42	66.86	53,293

Design	DD			
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	140.55

Survey Program		Date	3/6/2008	
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
996.0	8,414.0	Survey #1 (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	
996.0	0.60	279.40	996.0	0.9	-5.1	-3.9	0.06	0.06	
1,091.0	0.50	169.80	1,091.0	0.5	-5.6	-3.9	0.95	-0.11	
1,186.0	1.70	156.10	1,186.0	-1.2	-4.9	-2.2	1.28	1.26	
1,282.0	3.30	150.20	1,281.9	-4.9	-3.0	1.9	1.69	1.67	
1,377.0	4.40	142.70	1,376.7	-10.1	0.6	8.2	1.27	1.16	
1,471.0	6.50	138.20	1,470.2	-17.0	6.3	17.1	2.28	2.23	
1,567.0	9.10	144.20	1,565.3	-27.2	14.4	30.1	2.83	2.71	
1,663.0	10.60	139.70	1,659.9	-40.1	24.5	46.5	1.76	1.56	
1,759.0	12.60	140.00	1,753.9	-54.8	37.0	65.8	2.08	2.08	
1,854.0	13.60	137.50	1,846.5	-71.0	51.2	87.4	1.21	1.05	
1,950.0	15.50	139.60	1,939.4	-89.1	67.1	111.5	2.05	1.98	
2,044.0	17.50	140.90	2,029.5	-109.6	84.2	138.2	2.16	2.13	

Cathedral Energy Services

Survey Report



Company: EnCana Oil & Gas (USA) Inc
Project: DJ Wattenberg
Site: SENE S2-T1N-R69W
Well: Vicklund 42-2
Wellbore: DD
Design: DD

Local Co-ordinate Reference: Well Vicklund 42-2
TVD Reference: KBE @ 5061.0ft (Original Well Elev)
MD Reference: KBE @ 5061.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 US Multi User 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
2,139.0	17.10	139.40	2,120.2	-131.3	102.3	166.4	0.63	-0.42	
2,203.0	16.70	140.30	2,181.5	-145.5	114.3	185.0	0.75	-0.62	
2,299.0	16.30	139.00	2,273.5	-166.3	131.9	212.3	0.57	-0.42	
2,395.0	16.90	137.50	2,365.5	-186.8	150.2	239.7	0.77	0.62	
2,491.0	16.80	136.50	2,457.4	-207.1	169.2	267.4	0.32	-0.10	
2,586.0	17.00	137.60	2,548.3	-227.3	188.0	295.0	0.40	0.21	
2,682.0	16.70	140.80	2,640.2	-248.4	206.2	322.8	1.02	-0.31	
2,777.0	16.70	138.10	2,731.1	-269.1	223.9	350.1	0.82	0.00	
2,871.0	16.70	140.00	2,821.2	-289.5	241.6	377.1	0.58	0.00	
2,967.0	16.80	139.30	2,913.1	-310.6	259.5	404.8	0.23	0.10	
3,063.0	16.30	141.90	3,005.1	-331.7	276.9	432.1	0.93	-0.52	
3,157.0	16.00	144.30	3,095.4	-352.6	292.6	458.2	0.78	-0.32	
3,253.0	15.70	140.50	3,187.8	-373.4	308.6	484.4	1.13	-0.31	
3,347.0	14.50	140.90	3,278.5	-392.4	324.1	508.9	1.28	-1.28	
3,475.0	15.80	141.00	3,402.1	-418.3	345.2	542.3	1.02	1.02	
3,601.0	16.90	138.80	3,523.0	-445.4	368.0	577.8	1.00	0.87	
3,696.0	16.10	140.60	3,614.1	-466.0	385.5	604.8	1.00	-0.84	
3,791.0	16.80	141.90	3,705.2	-487.0	402.3	631.7	0.83	0.74	
3,887.0	16.80	141.50	3,797.1	-508.8	419.5	659.4	0.12	0.00	
4,014.0	17.10	139.20	3,918.6	-537.3	443.1	696.4	0.58	0.24	
4,109.0	17.40	141.10	4,009.3	-558.9	461.2	724.6	0.67	0.32	
4,205.0	15.00	141.20	4,101.5	-579.8	478.0	751.4	2.50	-2.50	
4,301.0	15.00	139.80	4,194.2	-598.9	493.8	776.2	0.38	0.00	
4,397.0	14.70	139.40	4,287.0	-617.7	509.7	800.8	0.33	-0.31	
4,525.0	14.00	141.30	4,411.0	-642.1	530.0	832.6	0.66	-0.55	
4,652.0	14.30	141.90	4,534.2	-666.4	549.3	863.6	0.26	0.24	
4,747.0	14.00	138.10	4,626.3	-684.2	564.2	886.8	1.03	-0.32	
4,843.0	13.50	142.00	4,719.5	-701.7	578.8	909.6	1.10	-0.52	
4,938.0	14.20	139.90	4,811.8	-719.3	593.2	932.3	0.91	0.74	
5,002.0	15.50	140.10	4,873.6	-731.9	603.7	948.7	2.03	2.03	
5,097.0	15.60	141.00	4,965.1	-751.6	619.9	974.2	0.27	0.11	
5,159.0	15.30	141.90	5,024.9	-764.5	630.2	990.7	0.62	-0.48	
5,253.0	14.50	141.20	5,115.7	-783.4	645.2	1,014.9	0.87	-0.85	
5,349.0	13.40	140.30	5,208.9	-801.3	659.8	1,038.0	1.17	-1.15	
5,444.0	13.10	139.00	5,301.4	-817.9	673.9	1,059.8	0.45	-0.32	
5,539.0	13.40	142.60	5,393.9	-834.8	687.7	1,081.6	0.92	0.32	
5,634.0	12.70	141.20	5,486.4	-851.7	700.9	1,103.0	0.81	-0.74	
5,729.0	10.80	143.50	5,579.4	-867.0	712.8	1,122.3	2.06	-2.00	
5,825.0	10.20	144.20	5,673.8	-881.1	723.1	1,139.8	0.64	-0.62	
5,953.0	7.30	147.20	5,800.3	-897.1	734.1	1,159.2	2.29	-2.27	
6,016.0	6.00	147.70	5,862.9	-903.3	738.0	1,166.4	2.07	-2.06	
6,112.0	5.60	141.10	5,958.4	-911.2	743.7	1,176.1	0.81	-0.42	
6,208.0	4.30	139.50	6,054.0	-917.5	748.9	1,184.4	1.36	-1.35	
6,271.0	3.70	140.40	6,116.9	-920.9	751.8	1,188.8	0.96	-0.95	
6,368.0	2.30	131.20	6,213.7	-924.6	755.2	1,193.8	1.52	-1.44	
6,464.0	0.80	154.70	6,309.7	-926.5	757.0	1,196.4	1.67	-1.56	
6,590.0	0.50	283.30	6,435.7	-927.1	756.8	1,196.8	0.94	-0.24	
6,686.0	0.90	276.50	6,531.7	-927.0	755.7	1,195.9	0.42	0.42	
6,781.0	1.40	299.60	6,626.7	-926.3	753.9	1,194.3	0.71	0.53	
6,875.0	1.20	291.90	6,720.6	-925.4	752.0	1,192.4	0.28	-0.21	
6,971.0	0.70	284.60	6,816.6	-924.8	750.5	1,191.0	0.53	-0.52	
7,066.0	1.50	289.40	6,911.6	-924.3	748.8	1,189.5	0.85	0.84	
7,162.0	2.60	285.10	7,007.5	-923.3	745.5	1,186.6	1.16	1.15	

Cathedral Energy Services

Survey Report



Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Vicklund 42-2
Project:	DJ Wattenberg	TVD Reference:	KBE @ 5061.0ft (Original Well Elev)
Site:	SENE S2-T1N-R69W	MD Reference:	KBE @ 5061.0ft (Original Well Elev)
Well:	Vicklund 42-2	North Reference:	True
Wellbore:	DD	Survey Calculation Method:	Minimum Curvature
Design:	DD	Database:	EDM 2003.16 US Multi User 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
7,194.0	2.70	285.80	7,039.5	-922.9	744.0	1,185.4	0.33	0.31	
7,289.0	2.40	287.10	7,134.4	-921.7	740.0	1,181.9	0.32	-0.32	
7,384.0	0.90	285.40	7,229.4	-920.9	737.4	1,179.7	1.58	-1.58	
→ 7,480.0	0.70	122.50	7,325.4	-921.0	737.1	1,179.6	1.65	-0.21	
7,575.0	0.90	87.60	7,420.4	-921.3	738.4	1,180.6	0.54	0.21	
7,670.0	0.90	76.60	7,515.4	-921.1	739.8	1,181.4	0.18	0.00	
7,766.0	1.30	82.80	7,611.3	-920.8	741.7	1,182.3	0.43	0.42	
7,861.0	1.20	81.50	7,706.3	-920.5	743.7	1,183.4	0.11	-0.11	
7,957.0	1.80	80.00	7,802.3	-920.1	746.2	1,184.6	0.63	0.62	
8,052.0	2.20	77.10	7,897.2	-919.5	749.4	1,186.2	0.43	0.42	
8,179.0	2.20	71.30	8,024.1	-918.1	754.1	1,188.1	0.18	0.00	
8,307.0	2.30	71.00	8,152.0	-916.5	758.9	1,189.9	0.08	0.08	
8,359.0	2.20	68.30	8,204.0	-915.8	760.8	1,190.6	0.28	-0.19	Last DP svy @ 8359'
8,414.0	2.20	68.30	8,258.9	-915.0	762.8	1,191.2	0.00	0.00	Straightline Projection to TD @ 8414'

Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
G Unit #1 (existing well)	0.00	0.00	0.0	0.0	50.0	1,273,932.85	3,117,716.45	40.0845700	-105.0792913
- hit/miss target									
- Shape									
- survey misses by 50.0ft at 0.0ft MD (0.0 TVD, 0.0 N, 0.0 E)									
- Point									
Vicklund 42-2 TGT	0.00	0.00	6,400.0	-921.6	758.3	1,273,014.62	3,118,429.11	40.0820400	-105.0767600
- survey misses by 5.7ft at 6554.3ft MD (6400.0 TVD, -927.1 N, 757.0 E)									
- Circle (radius 100.0)									
Vicklund 42-2 BHL	0.00	0.00	8,246.0	-921.6	758.3	1,273,014.62	3,118,429.12	40.0820400	-105.0767600
- survey misses by 7.5ft at 8400.8ft MD (8245.8 TVD, -915.2 N, 762.3 E)									
- Circle (radius 100.0)									

Survey Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates	Comment
		+N/-S (ft)	+E/-W (ft)
8,359.0	8,204.0	-915.8	760.8
8,414.0	8,258.9	-915.0	762.8
			Last DP svy @ 8359'
			Straightline Projection to TD @ 8414'

Checked By: _____ Approved By: _____ Date: _____

Cathedral Energy Services

Survey Report



Company: EnCana Oil & Gas (USA) Inc
Project: DJ Wattenberg
Site: SENE S2-T1N-R69W
Well: Vicklund 42-2
Wellbore: DD
Design: DD

Local Co-ordinate Reference: Well Vicklund 42-2
TVD Reference: KBE @ 5061.0ft (Original Well Elev)
MD Reference: KBE @ 5061.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 US Multi User Db

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

System Datum: Mean Sea Level

Site: SENE S2-T1N-R69W

Site Position:
From: Lat/Long
Position Uncertainty: 0.0 ft
Northing: 1,273,932.62 ft
Easting: 3,117,666.45 ft
Slot Radius: "
Grid Convergence: 0.27 °
Latitude: 40.0845700
Longitude: -105.0794700

Well: Vicklund 42-2
Well Position: +N/-S 0.0 ft
+E/-W: 0.0 ft
Position Uncertainty: 0.0 ft
Northing: 1,273,932.62 ft
Easting: 3,117,666.45 ft
Wellhead Elevation: ft
Ground Level: 5,045.0 ft
Latitude: 40.0845700
Longitude: -105.0794700

Wellbore: DD

Magnetics:
Model Name: IGRF200510
Sample Date: 2/19/2008
Declination (°): 9.42
Dip Angle (°): 66.86
Field Strength (nT): 53,293

Design: DD

Audit Notes:

Version: 1.0
Phase: ACTUAL
Tie On Depth: 0.0

Vertical Section:
Depth From (TVD) (ft): 0.0
+N/-S (ft): 0.0
+E/-W (ft): 0.0
Direction (°): 140.55

Survey Program: Date 3/6/2008

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
996.0	8,414.0	Survey #1 (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	
996.0	0.60	279.40	996.0	0.9	-5.1	-3.9	0.06	0.06	
1,091.0	0.50	169.80	1,091.0	0.5	-5.6	-3.9	0.95	-0.11	
1,186.0	1.70	156.10	1,186.0	-1.2	-4.9	-2.2	1.28	1.26	
1,282.0	3.30	150.20	1,281.9	-4.9	-3.0	1.9	1.69	1.67	
1,377.0	4.40	142.70	1,376.7	-10.1	0.6	8.2	1.27	1.16	
1,471.0	6.50	138.20	1,470.2	-17.0	6.3	17.1	2.28	2.23	
1,567.0	9.10	144.20	1,565.3	-27.2	14.4	30.1	2.83	2.71	
1,663.0	10.60	139.70	1,659.9	-40.1	24.5	46.5	1.76	1.56	
1,759.0	12.60	140.00	1,753.9	-54.8	37.0	65.8	2.08	2.08	
1,854.0	13.60	137.50	1,846.5	-71.0	51.2	87.4	1.21	1.05	
1,950.0	15.50	139.60	1,939.4	-89.1	67.1	111.5	2.05	1.98	
2,044.0	17.50	140.90	2,029.5	-109.6	84.2	138.2	2.16	2.13	

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
2,139.0	17.10	139.40	2,120.2	-131.3	102.3	166.4	0.63	-0.42	
2,203.0	16.70	140.30	2,181.5	-145.5	114.3	185.0	0.75	-0.62	
2,299.0	16.30	139.00	2,273.5	-166.3	131.9	212.3	0.57	-0.42	
2,395.0	16.90	137.50	2,365.5	-186.8	150.2	239.7	0.77	0.62	
2,491.0	16.80	136.50	2,457.4	-207.1	169.2	267.4	0.32	-0.10	
2,586.0	17.00	137.60	2,548.3	-227.3	188.0	295.0	0.40	0.21	
2,682.0	16.70	140.80	2,640.2	-248.4	206.2	322.8	1.02	-0.31	
2,777.0	16.70	138.10	2,731.1	-269.1	223.9	350.1	0.82	0.00	
2,871.0	16.70	140.00	2,821.2	-289.5	241.6	377.1	0.58	0.00	
2,967.0	16.80	139.30	2,913.1	-310.6	259.5	404.8	0.23	0.10	
3,063.0	16.30	141.90	3,005.1	-331.7	276.9	432.1	0.93	-0.52	
3,157.0	16.00	144.30	3,095.4	-352.6	292.6	458.2	0.78	-0.32	
3,253.0	15.70	140.50	3,187.8	-373.4	308.6	484.4	1.13	-0.31	
3,347.0	14.50	140.90	3,278.5	-392.4	324.1	508.9	1.28	-1.28	
3,475.0	15.80	141.00	3,402.1	-418.3	345.2	542.3	1.02	1.02	
3,601.0	16.90	138.80	3,523.0	-445.4	368.0	577.8	1.00	0.87	
3,696.0	16.10	140.60	3,614.1	-466.0	385.5	604.8	1.00	-0.84	
3,791.0	16.80	141.90	3,705.2	-487.0	402.3	631.7	0.83	0.74	
3,887.0	16.80	141.50	3,797.1	-508.8	419.5	659.4	0.12	0.00	
4,014.0	17.10	139.20	3,918.6	-537.3	443.1	696.4	0.58	0.24	
4,109.0	17.40	141.10	4,009.3	-558.9	461.2	724.6	0.67	0.32	
4,205.0	15.00	141.20	4,101.5	-579.8	478.0	751.4	2.50	-2.50	
4,301.0	15.00	139.80	4,194.2	-598.9	493.8	776.2	0.38	0.00	
4,397.0	14.70	139.40	4,287.0	-617.7	509.7	800.8	0.33	-0.31	
4,525.0	14.00	141.30	4,411.0	-642.1	530.0	832.6	0.66	-0.55	
4,652.0	14.30	141.90	4,534.2	-666.4	549.3	863.6	0.26	0.24	



4,747.0	14.00	138.10	4,626.3	-684.2	564.2	886.8	1.03	-0.32
4,843.0	13.50	142.00	4,719.5	-701.7	578.8	909.6	1.10	-0.52
4,938.0	14.20	139.90	4,811.8	-719.3	593.2	932.3	0.91	0.74
5,002.0	15.50	140.10	4,873.6	-731.9	603.7	948.7	2.03	2.03
5,097.0	15.60	141.00	4,965.1	-751.6	619.9	974.2	0.27	0.11
5,159.0	15.30	141.90	5,024.9	-764.5	630.2	990.7	0.62	-0.48
5,253.0	14.50	141.20	5,115.7	-783.4	645.2	1,014.9	0.87	-0.85
5,349.0	13.40	140.30	5,208.9	-801.3	659.8	1,038.0	1.17	-1.15
5,444.0	13.10	139.00	5,301.4	-817.9	673.9	1,059.8	0.45	-0.32
5,539.0	13.40	142.60	5,393.9	-834.8	687.7	1,081.6	0.92	0.32
5,634.0	12.70	141.20	5,486.4	-851.7	700.9	1,103.0	0.81	-0.74
5,729.0	10.80	143.50	5,579.4	-867.0	712.8	1,122.3	2.06	-2.00
5,825.0	10.20	144.20	5,673.8	-881.1	723.1	1,139.8	0.64	-0.62
5,953.0	7.30	147.20	5,800.3	-897.1	734.1	1,159.2	2.29	-2.27
6,016.0	6.00	147.70	5,862.9	-903.3	738.0	1,166.4	2.07	-2.06
6,112.0	5.60	141.10	5,958.4	-911.2	743.7	1,176.1	0.81	-0.42
6,208.0	4.30	139.50	6,054.0	-917.5	748.9	1,184.4	1.36	-1.35
6,271.0	3.70	140.40	6,116.9	-920.9	751.8	1,188.8	0.96	-0.95
6,368.0	2.30	131.20	6,213.7	-924.6	755.2	1,193.8	1.52	-1.44
6,464.0	0.80	154.70	6,309.7	-926.5	757.0	1,196.4	1.67	-1.56
6,590.0	0.50	283.30	6,435.7	-927.1	756.8	1,196.8	0.94	-0.24
6,686.0	0.90	276.50	6,531.7	-927.0	755.7	1,195.9	0.42	0.42
6,781.0	1.40	299.60	6,626.7	-926.3	753.9	1,194.3	0.71	0.53
6,875.0	1.20	291.90	6,720.6	-925.4	752.0	1,192.4	0.28	-0.21
6,971.0	0.70	284.60	6,816.6	-924.8	750.5	1,191.0	0.53	-0.52
7,066.0	1.50	289.40	6,911.6	-924.3	748.8	1,189.5	0.85	0.84
7,162.0	2.60	285.10	7,007.5	-923.3	745.5	1,186.6	1.16	1.15

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
7,194.0	2.70	285.80	7,039.5	-922.9	744.0	1,185.4	0.33	0.31	
7,289.0	2.40	287.10	7,134.4	-921.7	740.0	1,181.9	0.32	-0.32	
7,384.0	0.90	285.40	7,229.4	-920.9	737.4	1,179.7	1.58	-1.58	
7,480.0	0.70	122.50	7,325.4	-921.0	737.1	1,179.6	1.65	-0.21	
7,575.0	0.90	87.60	7,420.4	-921.3	738.4	1,180.6	0.54	0.21	
7,670.0	0.90	76.60	7,515.4	-921.1	739.8	1,181.4	0.18	0.00	
7,766.0	1.30	82.80	7,611.3	-920.8	741.7	1,182.3	0.43	0.42	
7,861.0	1.20	81.50	7,706.3	-920.5	743.7	1,183.4	0.11	-0.11	
7,957.0	1.80	80.00	7,802.3	-920.1	746.2	1,184.6	0.63	0.62	
8,052.0	2.20	77.10	7,897.2	-919.5	749.4	1,186.2	0.43	0.42	
8,179.0	2.20	71.30	8,024.1	-918.1	754.1	1,188.1	0.18	0.00	
8,307.0	2.30	71.00	8,152.0	-916.5	758.9	1,189.9	0.08	0.08	
8,359.0	2.20	68.30	8,204.0	-915.8	760.8	1,190.6	0.28	-0.19	Last DP svy @ 8359'
8,414.0	2.20	68.30	8,258.9	-915.0	762.8	1,191.2	0.00	0.00	Straightline Projection to TD @ 8414'

Targets

Target Name

- hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
G Unit #1 (existing w - survey misses by 50.0ft at 0.0ft MD (0.0 TVD, 0.0 N, 0.0 E) - Point	0.00	0.00	0.0	0.0	50.0	1,273,932.85	3,117,716.45	40.0845700	-105.0792913
Vicklund 42-2 TGT - survey misses by 5.7ft at 6554.3ft MD (6400.0 TVD, -927.1 N, 757.0 E) - Circle (radius 100.0)	0.00	0.00	6,400.0	-921.6	758.3	1,273,014.62	3,118,429.11	40.0820400	-105.0767600
Vicklund 42-2 BHL - survey misses by 7.5ft at 8400.8ft MD (8245.8 TVD, -915.2 N, 762.3 E) - Circle (radius 100.0)	0.00	0.00	8,246.0	-921.6	758.3	1,273,014.62	3,118,429.12	40.0820400	-105.0767600

Survey Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
8,359.0	8,204.0	-915.8		760.8 Last DP svy @ 8359'
8,414.0	8,258.9	-915.0		762.8 Straightline Projection to TD @ 8414'

Checked By:

Approved By:

Date: