

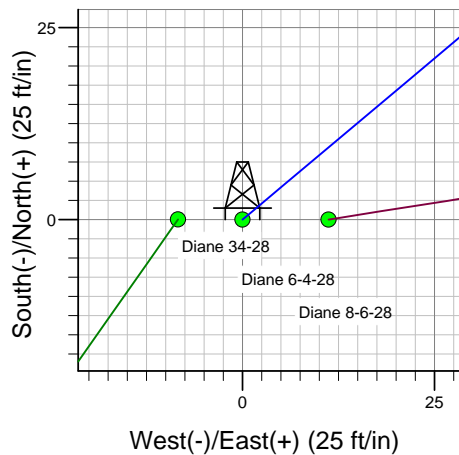
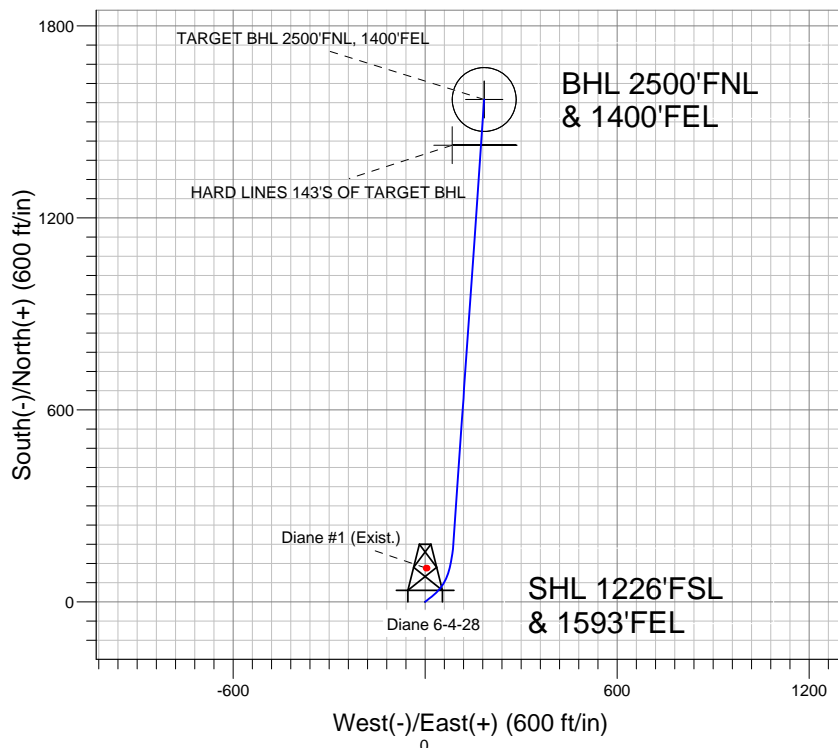
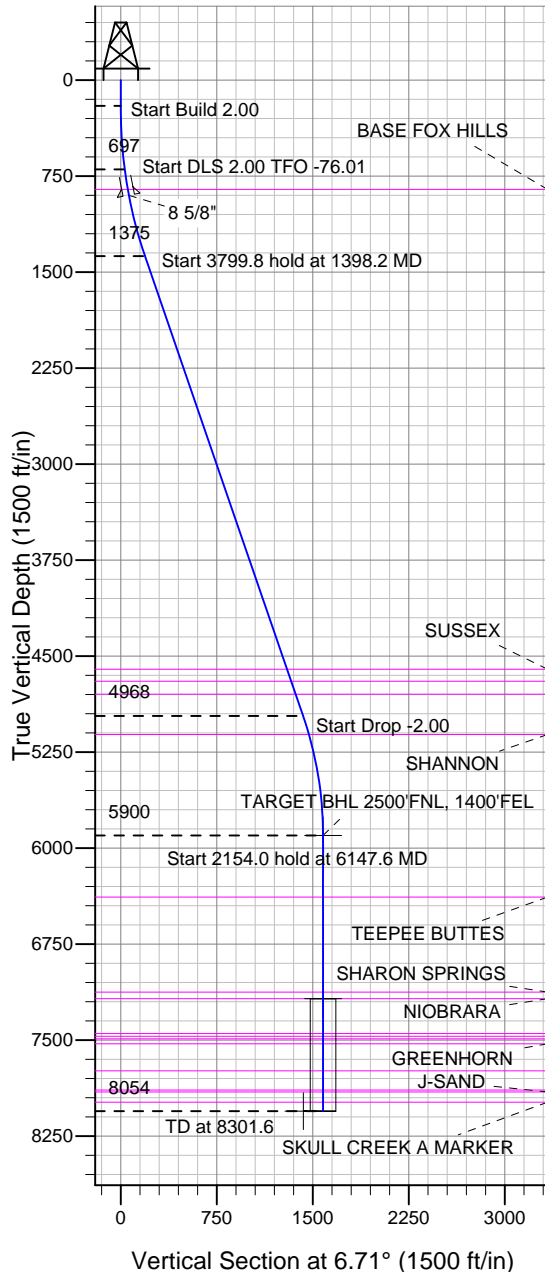
### Well Name: Diane 6-4-28

Surface Location: Diane 34-28 Pad Sec.28-T2N-R66W  
North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone

Ground Elevation: 4970.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1281997.07	3201827.91	40.105220	-104.778460	
Original Well Elev WELL @ 4982.0ft (Original Well Elev)						

## EnCana Oil & Gas Weld County CO



Diane 34-28 Pad Sec.28-T2N-R66W  
Diane 6-4-28  
Plan #1 (4-03-12)  
9:55, April 05 2012



Azimuths to True North  
Magnetic North: 8.74°  
Magnetic Field  
Strength: 52888.8snT  
Dip Angle: 66.78°  
Date: 4/4/2012  
Model: IGRF2010

### WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
TARGET BHL 2500'FNL, 1400'FEL	5900.0	1570.1	184.6	40.109530	-104.777800	Point
TARGET CIRCLE 2500'FNL & 1400'FEL	7176.0	1570.1	184.6	40.109530	-104.777800	Circle (Radius: 100.0)
HARD LINES 143'S OF TARGET BHL	8054.0	1427.1	84.6	40.109137	-104.778158	Polygon

### SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.0	
3	700.0	10.00	50.00	697.5	28.0	33.3	2.00	50.00	31.7	
4	1398.2	18.99	3.98	1374.7	181.0	87.9	2.00	-76.01	190.1	
5	5198.1	18.99	3.98	4967.8	1414.6	173.8	0.00	0.00	1425.2	
6	6147.6	0.00	0.00	5900.0	1570.1	184.6	2.00	180.00	1580.9	TARGET BHL 2500'FNL, 1400'FEL
7	8301.6	0.00	0.00	8054.0	1570.1	184.6	0.00	0.00	1580.9	



# **EnCana Oil & Gas Weld County CO**

**SEC.28-T2N-R66W**

**Diane 34-28 Pad Sec.28-T2N-R66W**

**Diane 6-4-28**

**Wellbore #1**

**Plan: Plan #1 (4-03-12)**

## **Standard Planning Report**

**05 April, 2012**

<b>Database:</b>	Landmark	<b>Local Co-ordinate Reference:</b>	Well Diane 6-4-28
<b>Company:</b>	EnCana Oil & Gas Weld County CO	<b>TVD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Project:</b>	SEC.28-T2N-R66W	<b>MD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Site:</b>	Diane 34-28 Pad Sec.28-T2N-R66W	<b>North Reference:</b>	True
<b>Well:</b>	Diane 6-4-28	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 (4-03-12)		

<b>Project</b>	SEC.28-T2N-R66W		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		Using Well Reference Point
<b>Map Zone:</b>	Colorado Northern Zone		Using geodetic scale factor

Site		Diane 34-28 Pad Sec.28-T2N-R66W			
Site Position:		Northing:	1,281,997.01 ft	Latitude:	40.105220
From:	Lat/Long	Easting:	3,201,819.52 ft	Longitude:	-104.778490
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.47 °

Well	Diane 6-4-28					
Well Position	+N/-S	0.0 ft	Northing:	1,281,997.07 ft	Latitude:	40.105220
	+E/-W	8.4 ft	Easting:	3,201,827.91 ft	Longitude:	-104.778460
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,970.0 ft

<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	4/4/2012	8.74	66.78	52,889

<b>Design</b>	Plan #1 (4-03-12)			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	0.0	0.0	0.0	6.71

<b>Plan Sections</b>										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.00	0.00	
700.0	10.00	50.00	697.5	28.0	33.3	2.00	2.00	0.00	50.00	
1,398.2	18.99	3.98	1,374.7	181.0	87.9	2.00	1.29	-6.59	-76.01	
5,198.1	18.99	3.98	4,967.8	1,414.6	173.8	0.00	0.00	0.00	0.00	
6,147.6	0.00	0.00	5,900.0	1,570.1	184.6	2.00	-2.00	0.00	180.00	TARGET BHL 250C
8,301.6	0.00	0.00	8,054.0	1,570.1	184.6	0.00	0.00	0.00	0.00	

<b>Database:</b>	Landmark	<b>Local Co-ordinate Reference:</b>	Well Diane 6-4-28
<b>Company:</b>	EnCana Oil & Gas Weld County CO	<b>TVD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Project:</b>	SEC.28-T2N-R66W	<b>MD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Site:</b>	Diane 34-28 Pad Sec.28-T2N-R66W	<b>North Reference:</b>	True
<b>Well:</b>	Diane 6-4-28	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 (4-03-12)		

Planned 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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
40.0	0.00	0.00	40.0	0.0	0.0	0.0	0.00	0.00	0.00
80.0	0.00	0.00	80.0	0.0	0.0	0.0	0.00	0.00	0.00
120.0	0.00	0.00	120.0	0.0	0.0	0.0	0.00	0.00	0.00
160.0	0.00	0.00	160.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
240.0	0.80	50.00	240.0	0.2	0.2	0.2	2.00	2.00	0.00
280.0	1.60	50.00	280.0	0.7	0.9	0.8	2.00	2.00	0.00
320.0	2.40	50.00	320.0	1.6	1.9	1.8	2.00	2.00	0.00
360.0	3.20	50.00	359.9	2.9	3.4	3.3	2.00	2.00	0.00
400.0	4.00	50.00	399.8	4.5	5.3	5.1	2.00	2.00	0.00
440.0	4.80	50.00	439.7	6.5	7.7	7.3	2.00	2.00	0.00
480.0	5.60	50.00	479.6	8.8	10.5	10.0	2.00	2.00	0.00
520.0	6.40	50.00	519.3	11.5	13.7	13.0	2.00	2.00	0.00
560.0	7.20	50.00	559.1	14.5	17.3	16.4	2.00	2.00	0.00
600.0	8.00	50.00	598.7	17.9	21.4	20.3	2.00	2.00	0.00
640.0	8.80	50.00	638.3	21.7	25.8	24.5	2.00	2.00	0.00
680.0	9.60	50.00	677.8	25.8	30.7	29.2	2.00	2.00	0.00
700.0	10.00	50.00	697.5	28.0	33.3	31.7	2.00	2.00	0.00
720.0	10.10	47.79	717.2	30.3	36.0	34.3	2.00	0.52	-11.06
760.0	10.36	43.51	756.5	35.2	41.0	39.8	2.00	0.63	-10.70
800.0	10.66	39.45	795.9	40.7	45.9	45.8	2.00	0.76	-10.14
840.0	11.01	35.63	835.1	46.7	50.4	52.2	2.00	0.88	-9.54
858.2	11.19	33.98	853.0	49.5	52.4	55.3	2.00	0.97	-9.09
<b>BASE FOX HILLS</b>									
880.0	11.41	32.07	874.4	53.1	54.8	59.2	2.00	1.02	-8.78
906.2	11.70	29.87	900.0	57.6	57.5	63.9	2.00	1.08	-8.40
<b>8 5/8"</b>									
920.0	11.85	28.75	913.6	60.1	58.9	66.5	2.00	1.13	-8.10
960.0	12.33	25.67	952.7	67.5	62.7	74.4	2.00	1.19	-7.69
1,000.0	12.83	22.83	991.7	75.5	66.2	82.7	2.00	1.27	-7.11
1,040.0	13.37	20.20	1,030.7	83.9	69.6	91.5	2.00	1.34	-6.57
1,080.0	13.93	17.78	1,069.5	92.8	72.6	100.7	2.00	1.40	-6.06
1,120.0	14.51	15.54	1,108.3	102.2	75.4	110.3	2.00	1.45	-5.59
1,160.0	15.11	13.48	1,147.0	112.1	78.0	120.5	2.00	1.50	-5.16
1,200.0	15.73	11.57	1,185.5	122.5	80.3	131.1	2.00	1.55	-4.77
1,240.0	16.36	9.80	1,224.0	133.4	82.4	142.1	2.00	1.59	-4.41
1,280.0	17.01	8.17	1,262.3	144.7	84.1	153.6	2.00	1.62	-4.09
1,320.0	17.67	6.65	1,300.5	156.5	85.7	165.5	2.00	1.65	-3.80
1,360.0	18.34	5.24	1,338.5	168.8	87.0	177.8	2.00	1.68	-3.53
1,398.2	18.99	3.98	1,374.7	181.0	87.9	190.1	2.00	1.70	-3.29
1,400.0	18.99	3.98	1,376.4	181.6	88.0	190.6	0.00	0.00	0.00
1,440.0	18.99	3.98	1,414.2	194.6	88.9	203.6	0.00	0.00	0.00
1,480.0	18.99	3.98	1,452.1	207.6	89.8	216.6	0.00	0.00	0.00
1,520.0	18.99	3.98	1,489.9	220.6	90.7	229.6	0.00	0.00	0.00
1,560.0	18.99	3.98	1,527.7	233.6	91.6	242.6	0.00	0.00	0.00
1,600.0	18.99	3.98	1,565.5	246.5	92.5	255.7	0.00	0.00	0.00
1,640.0	18.99	3.98	1,603.4	259.5	93.4	268.7	0.00	0.00	0.00
1,680.0	18.99	3.98	1,641.2	272.5	94.3	281.7	0.00	0.00	0.00
1,720.0	18.99	3.98	1,679.0	285.5	95.2	294.7	0.00	0.00	0.00
1,760.0	18.99	3.98	1,716.8	298.5	96.1	307.7	0.00	0.00	0.00
1,800.0	18.99	3.98	1,754.6	311.5	97.0	320.7	0.00	0.00	0.00
1,840.0	18.99	3.98	1,792.5	324.4	97.9	333.7	0.00	0.00	0.00
1,880.0	18.99	3.98	1,830.3	337.4	98.8	346.7	0.00	0.00	0.00

<b>Database:</b>	Landmark	<b>Local Co-ordinate Reference:</b>	Well Diane 6-4-28
<b>Company:</b>	EnCana Oil & Gas Weld County CO	<b>TVD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Project:</b>	SEC.28-T2N-R66W	<b>MD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Site:</b>	Diane 34-28 Pad Sec.28-T2N-R66W	<b>North Reference:</b>	True
<b>Well:</b>	Diane 6-4-28	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 (4-03-12)		

Planned 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)
1,920.0	18.99	3.98	1,868.1	350.4	99.7	359.7	0.00	0.00	0.00
1,960.0	18.99	3.98	1,905.9	363.4	100.6	372.7	0.00	0.00	0.00
2,000.0	18.99	3.98	1,943.8	376.4	101.5	385.7	0.00	0.00	0.00
2,040.0	18.99	3.98	1,981.6	389.4	102.4	398.7	0.00	0.00	0.00
2,080.0	18.99	3.98	2,019.4	402.4	103.3	411.7	0.00	0.00	0.00
2,120.0	18.99	3.98	2,057.2	415.3	104.2	424.7	0.00	0.00	0.00
2,160.0	18.99	3.98	2,095.1	428.3	105.1	437.7	0.00	0.00	0.00
2,200.0	18.99	3.98	2,132.9	441.3	106.1	450.7	0.00	0.00	0.00
2,240.0	18.99	3.98	2,170.7	454.3	107.0	463.7	0.00	0.00	0.00
2,280.0	18.99	3.98	2,208.5	467.3	107.9	476.7	0.00	0.00	0.00
2,320.0	18.99	3.98	2,246.3	480.3	108.8	489.7	0.00	0.00	0.00
2,360.0	18.99	3.98	2,284.2	493.3	109.7	502.7	0.00	0.00	0.00
2,400.0	18.99	3.98	2,322.0	506.2	110.6	515.7	0.00	0.00	0.00
2,440.0	18.99	3.98	2,359.8	519.2	111.5	528.7	0.00	0.00	0.00
2,480.0	18.99	3.98	2,397.6	532.2	112.4	541.7	0.00	0.00	0.00
2,520.0	18.99	3.98	2,435.5	545.2	113.3	554.7	0.00	0.00	0.00
2,560.0	18.99	3.98	2,473.3	558.2	114.2	567.7	0.00	0.00	0.00
2,600.0	18.99	3.98	2,511.1	571.2	115.1	580.7	0.00	0.00	0.00
2,640.0	18.99	3.98	2,548.9	584.1	116.0	593.7	0.00	0.00	0.00
2,680.0	18.99	3.98	2,586.8	597.1	116.9	606.7	0.00	0.00	0.00
2,720.0	18.99	3.98	2,624.6	610.1	117.8	619.7	0.00	0.00	0.00
2,760.0	18.99	3.98	2,662.4	623.1	118.7	632.7	0.00	0.00	0.00
2,800.0	18.99	3.98	2,700.2	636.1	119.6	645.7	0.00	0.00	0.00
2,840.0	18.99	3.98	2,738.0	649.1	120.5	658.7	0.00	0.00	0.00
2,880.0	18.99	3.98	2,775.9	662.1	121.4	671.7	0.00	0.00	0.00
2,920.0	18.99	3.98	2,813.7	675.0	122.3	684.7	0.00	0.00	0.00
2,960.0	18.99	3.98	2,851.5	688.0	123.2	697.7	0.00	0.00	0.00
3,000.0	18.99	3.98	2,889.3	701.0	124.1	710.7	0.00	0.00	0.00
3,040.0	18.99	3.98	2,927.2	714.0	125.0	723.7	0.00	0.00	0.00
3,080.0	18.99	3.98	2,965.0	727.0	125.9	736.7	0.00	0.00	0.00
3,120.0	18.99	3.98	3,002.8	740.0	126.8	749.7	0.00	0.00	0.00
3,160.0	18.99	3.98	3,040.6	753.0	127.7	762.7	0.00	0.00	0.00
3,200.0	18.99	3.98	3,078.4	765.9	128.6	775.7	0.00	0.00	0.00
3,240.0	18.99	3.98	3,116.3	778.9	129.5	788.7	0.00	0.00	0.00
3,280.0	18.99	3.98	3,154.1	791.9	130.5	801.7	0.00	0.00	0.00
3,320.0	18.99	3.98	3,191.9	804.9	131.4	814.7	0.00	0.00	0.00
3,360.0	18.99	3.98	3,229.7	817.9	132.3	827.7	0.00	0.00	0.00
3,400.0	18.99	3.98	3,267.6	830.9	133.2	840.7	0.00	0.00	0.00
3,440.0	18.99	3.98	3,305.4	843.9	134.1	853.7	0.00	0.00	0.00
3,480.0	18.99	3.98	3,343.2	856.8	135.0	866.7	0.00	0.00	0.00
3,520.0	18.99	3.98	3,381.0	869.8	135.9	879.7	0.00	0.00	0.00
3,560.0	18.99	3.98	3,418.9	882.8	136.8	892.7	0.00	0.00	0.00
3,600.0	18.99	3.98	3,456.7	895.8	137.7	905.7	0.00	0.00	0.00
3,640.0	18.99	3.98	3,494.5	908.8	138.6	918.7	0.00	0.00	0.00
3,680.0	18.99	3.98	3,532.3	921.8	139.5	931.7	0.00	0.00	0.00
3,720.0	18.99	3.98	3,570.1	934.7	140.4	944.7	0.00	0.00	0.00
3,760.0	18.99	3.98	3,608.0	947.7	141.3	957.7	0.00	0.00	0.00
3,800.0	18.99	3.98	3,645.8	960.7	142.2	970.7	0.00	0.00	0.00
3,840.0	18.99	3.98	3,683.6	973.7	143.1	983.8	0.00	0.00	0.00
3,880.0	18.99	3.98	3,721.4	986.7	144.0	996.8	0.00	0.00	0.00
3,920.0	18.99	3.98	3,759.3	999.7	144.9	1,009.8	0.00	0.00	0.00
3,960.0	18.99	3.98	3,797.1	1,012.7	145.8	1,022.8	0.00	0.00	0.00
4,000.0	18.99	3.98	3,834.9	1,025.6	146.7	1,035.8	0.00	0.00	0.00
4,040.0	18.99	3.98	3,872.7	1,038.6	147.6	1,048.8	0.00	0.00	0.00

<b>Database:</b>	Landmark	<b>Local Co-ordinate Reference:</b>	Well Diane 6-4-28
<b>Company:</b>	EnCana Oil & Gas Weld County CO	<b>TVD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Project:</b>	SEC.28-T2N-R66W	<b>MD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Site:</b>	Diane 34-28 Pad Sec.28-T2N-R66W	<b>North Reference:</b>	True
<b>Well:</b>	Diane 6-4-28	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 (4-03-12)		

Planned 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)
4,080.0	18.99	3.98	3,910.6	1,051.6	148.5	1,061.8	0.00	0.00	0.00
4,120.0	18.99	3.98	3,948.4	1,064.6	149.4	1,074.8	0.00	0.00	0.00
4,160.0	18.99	3.98	3,986.2	1,077.6	150.3	1,087.8	0.00	0.00	0.00
4,200.0	18.99	3.98	4,024.0	1,090.6	151.2	1,100.8	0.00	0.00	0.00
4,240.0	18.99	3.98	4,061.8	1,103.6	152.1	1,113.8	0.00	0.00	0.00
4,280.0	18.99	3.98	4,099.7	1,116.5	153.0	1,126.8	0.00	0.00	0.00
4,320.0	18.99	3.98	4,137.5	1,129.5	153.9	1,139.8	0.00	0.00	0.00
4,360.0	18.99	3.98	4,175.3	1,142.5	154.9	1,152.8	0.00	0.00	0.00
4,400.0	18.99	3.98	4,213.1	1,155.5	155.8	1,165.8	0.00	0.00	0.00
4,440.0	18.99	3.98	4,251.0	1,168.5	156.7	1,178.8	0.00	0.00	0.00
4,480.0	18.99	3.98	4,288.8	1,181.5	157.6	1,191.8	0.00	0.00	0.00
4,520.0	18.99	3.98	4,326.6	1,194.4	158.5	1,204.8	0.00	0.00	0.00
4,560.0	18.99	3.98	4,364.4	1,207.4	159.4	1,217.8	0.00	0.00	0.00
4,600.0	18.99	3.98	4,402.2	1,220.4	160.3	1,230.8	0.00	0.00	0.00
4,640.0	18.99	3.98	4,440.1	1,233.4	161.2	1,243.8	0.00	0.00	0.00
4,680.0	18.99	3.98	4,477.9	1,246.4	162.1	1,256.8	0.00	0.00	0.00
4,720.0	18.99	3.98	4,515.7	1,259.4	163.0	1,269.8	0.00	0.00	0.00
4,760.0	18.99	3.98	4,553.5	1,272.4	163.9	1,282.8	0.00	0.00	0.00
4,800.0	18.99	3.98	4,591.4	1,285.3	164.8	1,295.8	0.00	0.00	0.00
4,811.2	18.99	3.98	4,602.0	1,289.0	165.0	1,299.5	0.00	0.00	0.00
<b>SUSSEX</b>									
4,840.0	18.99	3.98	4,629.2	1,298.3	165.7	1,308.8	0.00	0.00	0.00
4,880.0	18.99	3.98	4,667.0	1,311.3	166.6	1,321.8	0.00	0.00	0.00
4,910.7	18.99	3.98	4,696.0	1,321.3	167.3	1,331.8	0.00	0.00	0.00
<b>SUSSEX PAY TOP</b>									
4,920.0	18.99	3.98	4,704.8	1,324.3	167.5	1,334.8	0.00	0.00	0.00
4,960.0	18.99	3.98	4,742.7	1,337.3	168.4	1,347.8	0.00	0.00	0.00
5,000.0	18.99	3.98	4,780.5	1,350.3	169.3	1,360.8	0.00	0.00	0.00
5,017.5	18.99	3.98	4,797.0	1,355.9	169.7	1,366.5	0.00	0.00	0.00
<b>SUSSEX MARKER</b>									
5,040.0	18.99	3.98	4,818.3	1,363.3	170.2	1,373.8	0.00	0.00	0.00
5,080.0	18.99	3.98	4,856.1	1,376.2	171.1	1,386.8	0.00	0.00	0.00
5,120.0	18.99	3.98	4,893.9	1,389.2	172.0	1,399.8	0.00	0.00	0.00
5,160.0	18.99	3.98	4,931.8	1,402.2	172.9	1,412.8	0.00	0.00	0.00
5,198.1	18.99	3.98	4,967.8	1,414.6	173.8	1,425.2	0.00	0.00	0.00
5,200.0	18.95	3.98	4,969.6	1,415.2	173.8	1,425.8	2.00	-2.00	0.00
5,240.0	18.15	3.98	5,007.5	1,427.9	174.7	1,438.5	2.00	-2.00	0.00
5,280.0	17.35	3.98	5,045.6	1,440.1	175.6	1,450.7	2.00	-2.00	0.00
5,320.0	16.55	3.98	5,083.9	1,451.7	176.4	1,462.4	2.00	-2.00	0.00
5,349.3	15.97	3.98	5,112.0	1,459.9	176.9	1,470.5	2.00	-2.00	0.00
<b>SHANNON</b>									
5,360.0	15.75	3.98	5,122.3	1,462.8	177.1	1,473.5	2.00	-2.00	0.00
5,400.0	14.95	3.98	5,160.9	1,473.4	177.9	1,484.0	2.00	-2.00	0.00
5,440.0	14.15	3.98	5,199.6	1,483.4	178.6	1,494.1	2.00	-2.00	0.00
5,480.0	13.35	3.98	5,238.4	1,492.9	179.2	1,503.6	2.00	-2.00	0.00
5,520.0	12.55	3.98	5,277.4	1,501.8	179.9	1,512.5	2.00	-2.00	0.00
5,560.0	11.75	3.98	5,316.5	1,510.2	180.4	1,520.9	2.00	-2.00	0.00
5,600.0	10.95	3.98	5,355.7	1,518.1	181.0	1,528.8	2.00	-2.00	0.00
5,640.0	10.15	3.98	5,395.1	1,525.4	181.5	1,536.1	2.00	-2.00	0.00
5,680.0	9.35	3.98	5,434.5	1,532.1	182.0	1,542.9	2.00	-2.00	0.00
5,720.0	8.55	3.98	5,474.0	1,538.3	182.4	1,549.1	2.00	-2.00	0.00
5,760.0	7.75	3.98	5,513.6	1,544.0	182.8	1,554.8	2.00	-2.00	0.00
5,800.0	6.95	3.98	5,553.3	1,549.1	183.1	1,559.9	2.00	-2.00	0.00

<b>Database:</b>	Landmark	<b>Local Co-ordinate Reference:</b>	Well Diane 6-4-28
<b>Company:</b>	EnCana Oil & Gas Weld County CO	<b>TVD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Project:</b>	SEC.28-T2N-R66W	<b>MD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Site:</b>	Diane 34-28 Pad Sec.28-T2N-R66W	<b>North Reference:</b>	True
<b>Well:</b>	Diane 6-4-28	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 (4-03-12)		

Planned 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)
5,840.0	6.15	3.98	5,593.0	1,553.7	183.5	1,564.5	2.00	-2.00	0.00
5,880.0	5.35	3.98	5,632.8	1,557.7	183.7	1,568.5	2.00	-2.00	0.00
5,920.0	4.55	3.98	5,672.6	1,561.1	184.0	1,571.9	2.00	-2.00	0.00
5,960.0	3.75	3.98	5,712.5	1,564.0	184.2	1,574.8	2.00	-2.00	0.00
6,000.0	2.95	3.98	5,752.5	1,566.3	184.3	1,577.1	2.00	-2.00	0.00
6,040.0	2.15	3.98	5,792.4	1,568.1	184.5	1,578.9	2.00	-2.00	0.00
6,080.0	1.35	3.98	5,832.4	1,569.3	184.6	1,580.1	2.00	-2.00	0.00
6,120.0	0.55	3.98	5,872.4	1,570.0	184.6	1,580.8	2.00	-2.00	0.00
6,147.6	0.00	0.00	5,900.0	1,570.1	184.6	1,580.9	2.00	-2.00	0.00
<b>TARGET BHL 2500'FNL, 1400'FEL</b>									
6,160.0	0.00	0.00	5,912.4	1,570.1	184.6	1,580.9	0.00	0.00	0.00
6,200.0	0.00	0.00	5,952.4	1,570.1	184.6	1,580.9	0.00	0.00	0.00
6,240.0	0.00	0.00	5,992.4	1,570.1	184.6	1,580.9	0.00	0.00	0.00
6,280.0	0.00	0.00	6,032.4	1,570.1	184.6	1,580.9	0.00	0.00	0.00
6,320.0	0.00	0.00	6,072.4	1,570.1	184.6	1,580.9	0.00	0.00	0.00
6,360.0	0.00	0.00	6,112.4	1,570.1	184.6	1,580.9	0.00	0.00	0.00
6,400.0	0.00	0.00	6,152.4	1,570.1	184.6	1,580.9	0.00	0.00	0.00
6,440.0	0.00	0.00	6,192.4	1,570.1	184.6	1,580.9	0.00	0.00	0.00
6,480.0	0.00	0.00	6,232.4	1,570.1	184.6	1,580.9	0.00	0.00	0.00
6,520.0	0.00	0.00	6,272.4	1,570.1	184.6	1,580.9	0.00	0.00	0.00
6,560.0	0.00	0.00	6,312.4	1,570.1	184.6	1,580.9	0.00	0.00	0.00
6,600.0	0.00	0.00	6,352.4	1,570.1	184.6	1,580.9	0.00	0.00	0.00
6,629.6	0.00	0.00	6,382.0	1,570.1	184.6	1,580.9	0.00	0.00	0.00
<b>TEEPER BUTTES</b>									
6,640.0	0.00	0.00	6,392.4	1,570.1	184.6	1,580.9	0.00	0.00	0.00
6,680.0	0.00	0.00	6,432.4	1,570.1	184.6	1,580.9	0.00	0.00	0.00
6,720.0	0.00	0.00	6,472.4	1,570.1	184.6	1,580.9	0.00	0.00	0.00
6,760.0	0.00	0.00	6,512.4	1,570.1	184.6	1,580.9	0.00	0.00	0.00
6,800.0	0.00	0.00	6,552.4	1,570.1	184.6	1,580.9	0.00	0.00	0.00
6,840.0	0.00	0.00	6,592.4	1,570.1	184.6	1,580.9	0.00	0.00	0.00
6,880.0	0.00	0.00	6,632.4	1,570.1	184.6	1,580.9	0.00	0.00	0.00
6,920.0	0.00	0.00	6,672.4	1,570.1	184.6	1,580.9	0.00	0.00	0.00
6,960.0	0.00	0.00	6,712.4	1,570.1	184.6	1,580.9	0.00	0.00	0.00
7,000.0	0.00	0.00	6,752.4	1,570.1	184.6	1,580.9	0.00	0.00	0.00
7,040.0	0.00	0.00	6,792.4	1,570.1	184.6	1,580.9	0.00	0.00	0.00
7,080.0	0.00	0.00	6,832.4	1,570.1	184.6	1,580.9	0.00	0.00	0.00
7,120.0	0.00	0.00	6,872.4	1,570.1	184.6	1,580.9	0.00	0.00	0.00
7,160.0	0.00	0.00	6,912.4	1,570.1	184.6	1,580.9	0.00	0.00	0.00
7,200.0	0.00	0.00	6,952.4	1,570.1	184.6	1,580.9	0.00	0.00	0.00
7,240.0	0.00	0.00	6,992.4	1,570.1	184.6	1,580.9	0.00	0.00	0.00
7,280.0	0.00	0.00	7,032.4	1,570.1	184.6	1,580.9	0.00	0.00	0.00
7,320.0	0.00	0.00	7,072.4	1,570.1	184.6	1,580.9	0.00	0.00	0.00
7,360.0	0.00	0.00	7,112.4	1,570.1	184.6	1,580.9	0.00	0.00	0.00
7,371.6	0.00	0.00	7,124.0	1,570.1	184.6	1,580.9	0.00	0.00	0.00
<b>SHARON SPRINGS</b>									
7,400.0	0.00	0.00	7,152.4	1,570.1	184.6	1,580.9	0.00	0.00	0.00
7,423.6	0.00	0.00	7,176.0	1,570.1	184.6	1,580.9	0.00	0.00	0.00
<b>NIORARA - TARGET CIRCLE 2500'FNL &amp; 1400'FEL</b>									
7,440.0	0.00	0.00	7,192.4	1,570.1	184.6	1,580.9	0.00	0.00	0.00
7,480.0	0.00	0.00	7,232.4	1,570.1	184.6	1,580.9	0.00	0.00	0.00
7,520.0	0.00	0.00	7,272.4	1,570.1	184.6	1,580.9	0.00	0.00	0.00
7,560.0	0.00	0.00	7,312.4	1,570.1	184.6	1,580.9	0.00	0.00	0.00
7,600.0	0.00	0.00	7,352.4	1,570.1	184.6	1,580.9	0.00	0.00	0.00
7,640.0	0.00	0.00	7,392.4	1,570.1	184.6	1,580.9	0.00	0.00	0.00



<b>Database:</b>	Landmark	<b>Local Co-ordinate Reference:</b>	Well Diane 6-4-28
<b>Company:</b>	EnCana Oil & Gas Weld County CO	<b>TVD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Project:</b>	SEC.28-T2N-R66W	<b>MD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Site:</b>	Diane 34-28 Pad Sec.28-T2N-R66W	<b>North Reference:</b>	True
<b>Well:</b>	Diane 6-4-28	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 (4-03-12)		

Planned 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)
7,680.0	0.00	0.00	7,432.4	1,570.1	184.6	1,580.9	0.00	0.00	0.00
7,696.6	0.00	0.00	7,449.0	1,570.1	184.6	1,580.9	0.00	0.00	0.00
<b>FT. HAYES</b>									
7,716.6	0.00	0.00	7,469.0	1,570.1	184.6	1,580.9	0.00	0.00	0.00
<b>CODELL</b>									
7,720.0	0.00	0.00	7,472.4	1,570.1	184.6	1,580.9	0.00	0.00	0.00
7,736.6	0.00	0.00	7,489.0	1,570.1	184.6	1,580.9	0.00	0.00	0.00
<b>FAIRPORT</b>									
7,760.0	0.00	0.00	7,512.4	1,570.1	184.6	1,580.9	0.00	0.00	0.00
7,775.6	0.00	0.00	7,528.0	1,570.1	184.6	1,580.9	0.00	0.00	0.00
<b>GREENHORN</b>									
7,800.0	0.00	0.00	7,552.4	1,570.1	184.6	1,580.9	0.00	0.00	0.00
7,840.0	0.00	0.00	7,592.4	1,570.1	184.6	1,580.9	0.00	0.00	0.00
7,880.0	0.00	0.00	7,632.4	1,570.1	184.6	1,580.9	0.00	0.00	0.00
7,920.0	0.00	0.00	7,672.4	1,570.1	184.6	1,580.9	0.00	0.00	0.00
7,960.0	0.00	0.00	7,712.4	1,570.1	184.6	1,580.9	0.00	0.00	0.00
7,986.6	0.00	0.00	7,739.0	1,570.1	184.6	1,580.9	0.00	0.00	0.00
<b>GRANEROS</b>									
8,000.0	0.00	0.00	7,752.4	1,570.1	184.6	1,580.9	0.00	0.00	0.00
8,040.0	0.00	0.00	7,792.4	1,570.1	184.6	1,580.9	0.00	0.00	0.00
8,080.0	0.00	0.00	7,832.4	1,570.1	184.6	1,580.9	0.00	0.00	0.00
8,120.0	0.00	0.00	7,872.4	1,570.1	184.6	1,580.9	0.00	0.00	0.00
8,136.6	0.00	0.00	7,889.0	1,570.1	184.6	1,580.9	0.00	0.00	0.00
<b>MOWRY</b>									
8,151.6	0.00	0.00	7,904.0	1,570.1	184.6	1,580.9	0.00	0.00	0.00
<b>J-SAND</b>									
8,160.0	0.00	0.00	7,912.4	1,570.1	184.6	1,580.9	0.00	0.00	0.00
8,200.0	0.00	0.00	7,952.4	1,570.1	184.6	1,580.9	0.00	0.00	0.00
8,231.6	0.00	0.00	7,984.0	1,570.1	184.6	1,580.9	0.00	0.00	0.00
<b>SKULL CREEK A MARKER</b>									
8,240.0	0.00	0.00	7,992.4	1,570.1	184.6	1,580.9	0.00	0.00	0.00
8,280.0	0.00	0.00	8,032.4	1,570.1	184.6	1,580.9	0.00	0.00	0.00
8,301.6	0.00	0.00	8,054.0	1,570.1	184.6	1,580.9	0.00	0.00	0.00
<b>HARD LINES 143'S OF TARGET BHL</b>									

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
TARGET CIRCLE 25(	0.00	0.00	7,176.0	1,570.1	184.6	1,283,568.57	3,201,999.74	40.109530	-104.777800
- plan hits target center									
- Circle (radius 100.0)									
HARD LINES 143'S C	0.00	0.00	8,054.0	1,427.1	84.6	1,283,424.75	3,201,900.90	40.109137	-104.778158
- plan misses target center by 174.5ft at 8301.6ft MD (8054.0 TVD, 1570.1 N, 184.6 E)									
- Polygon									
Point 1			8,054.0	0.0	0.0	1,283,424.75	3,201,900.90		
Point 2			8,054.0	0.0	200.0	1,283,426.38	3,202,100.88		
TARGET BHL 2500'F	0.00	0.00	5,900.0	1,570.1	184.6	1,283,568.57	3,201,999.74	40.109530	-104.777800
- plan hits target center									
- Point									



<b>Database:</b>	Landmark	<b>Local Co-ordinate Reference:</b>	Well Diane 6-4-28
<b>Company:</b>	EnCana Oil & Gas Weld County CO	<b>TVD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Project:</b>	SEC.28-T2N-R66W	<b>MD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Site:</b>	Diane 34-28 Pad Sec.28-T2N-R66W	<b>North Reference:</b>	True
<b>Well:</b>	Diane 6-4-28	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 (4-03-12)		

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
906.2	900.0	8 5/8"	8-5/8	12-1/4	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
858.2	853.0	BASE FOX HILLS		0.00		
4,811.2	4,602.0	SUSSEX		0.00		
4,910.7	4,696.0	SUSSEX PAY TOP		0.00		
5,017.5	4,797.0	SUSSEX MARKER		0.00		
5,349.3	5,112.0	SHANNON		0.00		
6,629.6	6,382.0	TEEPEE BUTTES		0.00		
7,371.6	7,124.0	SHARON SPRINGS		0.00		
7,423.6	7,176.0	NIOBRARA		0.00		
7,696.6	7,449.0	FT. HAYES		0.00		
7,716.6	7,469.0	CODELL		0.00		
7,736.6	7,489.0	FAIRPORT		0.00		
7,775.6	7,528.0	GREENHORN		0.00		
7,986.6	7,739.0	GRANEROS		0.00		
8,136.6	7,889.0	MOWRY		0.00		
8,151.6	7,904.0	J-SAND		0.00		
8,231.6	7,984.0	SKULL CREEK A MARKER		0.00		



# **EnCana Oil & Gas Weld County CO**

**SEC.28-T2N-R66W**

**Diane 34-28 Pad Sec.28-T2N-R66W**

**Diane 6-4-28**

**Wellbore #1**

**Plan #1 (4-03-12)**

## **Anticollision Report**

**05 April, 2012**

<b>Company:</b>	EnCana Oil & Gas Weld County CO	<b>Local Co-ordinate Reference:</b>	Well Diane 6-4-28
<b>Project:</b>	SEC.28-T2N-R66W	<b>TVD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Reference Site:</b>	Diane 34-28 Pad Sec.28-T2N-R66W	<b>MD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Diane 6-4-28	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (4-03-12)	<b>Offset TVD Reference:</b>	Offset Datum

<b>Reference</b>	Plan #1 (4-03-12)		
<b>Filter type:</b>	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
<b>Interpolation Method:</b>	Stations	<b>Error Model:</b>	ISCWSA
<b>Depth Range:</b>	Unlimited	<b>Scan Method:</b>	Closest Approach 3D
<b>Results Limited by:</b>	Maximum center-center distance of 10,000.0ft	<b>Error Surface:</b>	Elliptical Conic
<b>Warning Levels Evaluated at:</b>	2.00 Sigma		

<b>Survey Tool Program</b>	<b>Date</b> 4/4/2012			
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.0	8,301.6	Plan #1 (4-03-12) (Wellbore #1)	MWD	MWD - Standard

<b>Summary</b>						
<b>Site Name</b>	<b>Reference Measured Depth (ft)</b>	<b>Offset Measured Depth (ft)</b>	<b>Distance Between Centres (ft)</b>	<b>Distance Between Ellipses (ft)</b>	<b>Separation Factor</b>	<b>Warning</b>
<b>Offset Well - Wellbore - Design</b>						
Diane 34-28 Pad Sec.28-T2N-R66W						
Diane #1 (Exist.) - Wellbore #1 - Design #1	1,022.4	1,012.5	70.1	65.2	14.166	CC, ES
Diane #1 (Exist.) - Wellbore #1 - Design #1	1,100.0	1,087.9	71.7	66.4	13.427	SF
Diane 34-28 - Wellbore #1 - Plan #1 (4-03-12)	200.0	202.0	8.4	7.7	12.363	CC, ES
Diane 34-28 - Wellbore #1 - Plan #1 (4-03-12)	300.0	302.0	9.8	8.7	8.671	SF
Diane 8-6-28 - Wellbore #1 - Plan #1 (4-03-12)	200.0	200.0	11.2	10.5	16.594	CC
Diane 8-6-28 - Wellbore #1 - Plan #1 (4-03-12)	300.0	299.6	11.6	10.5	10.438	ES
Diane 8-6-28 - Wellbore #1 - Plan #1 (4-03-12)	500.0	498.6	16.5	14.5	8.109	SF

<b>Offset Design</b>													<b>Offset Site Error:</b>	0.0ft
Diane 34-28 Pad Sec.28-T2N-R66W - Diane #1 (Exist.) - Wellbore #1 - Design #1													<b>Offset Well Error:</b>	0.0ft
<b>Survey Program:</b> 0-MWD														
<b>Reference</b>	<b>Offset</b>	<b>Semi Major Axis</b>			<b>Distance</b>									
<b>Measured Depth (ft)</b>	<b>Vertical Depth (ft)</b>	<b>Measured Depth (ft)</b>	<b>Vertical Depth (ft)</b>	<b>Reference (ft)</b>	<b>Offset (ft)</b>	<b>Highside Toolface (°)</b>	<b>Offset Wellbore Centre +N/-S (ft)</b>	<b>Offset Wellbore Centre +E/-W (ft)</b>	<b>Between Centres (ft)</b>	<b>Between Ellipses (ft)</b>	<b>Minimum Separation (ft)</b>	<b>Separation Factor</b>	<b>Warning</b>	
0.0	0.0	0.0	0.0	0.0	0.0	1.52	105.6	2.8	105.7					
100.0	100.0	99.0	99.0	0.1	0.1	1.52	105.6	2.8	105.7	105.5	0.22	472.546		
200.0	200.0	199.0	199.0	0.3	0.3	1.52	105.6	2.8	105.7	105.0	0.67	157.253		
300.0	300.0	299.0	299.0	0.6	0.6	-49.22	105.6	2.8	104.5	103.4	1.12	93.188		
400.0	399.8	398.8	398.8	0.8	0.8	-51.51	105.6	2.8	101.2	99.6	1.58	64.148		
500.0	499.5	498.5	498.5	1.0	1.0	-55.66	105.6	2.8	96.0	94.0	2.05	46.863		
600.0	598.7	597.7	597.7	1.3	1.2	-62.18	105.6	2.8	89.7	87.1	2.55	35.188		
700.0	697.5	696.5	696.5	1.6	1.5	-71.73	105.6	2.8	83.5	80.4	3.10	26.962		
800.0	795.9	794.9	794.9	2.0	1.7	-73.28	105.6	2.8	77.9	74.3	3.67	21.226		
900.0	894.0	893.0	893.0	2.4	1.9	-78.35	105.6	2.8	73.0	68.8	4.25	17.171		
1,000.0	991.7	990.7	990.7	2.8	2.1	-87.46	105.6	2.8	70.3	65.4	4.83	14.559		
1,022.4	1,013.5	1,012.5	1,012.5	2.9	2.2	-90.00	105.6	2.8	70.1	65.2	4.95	14.166	CC, ES	
1,100.0	1,088.9	1,087.9	1,087.9	3.2	2.3	-99.79	105.6	2.8	71.7	66.4	5.34	13.427	SF	
1,200.0	1,185.5	1,184.5	1,184.5	3.6	2.6	-113.05	105.6	2.8	79.3	73.5	5.78	13.734		
1,300.0	1,281.4	1,280.4	1,280.4	4.1	2.8	-124.81	105.6	2.8	93.6	87.5	6.15	15.213		
1,398.2	1,374.7	1,373.7	1,373.7	4.7	3.0	-133.90	105.6	2.8	113.7	107.2	6.52	17.436		
1,400.0	1,376.4	1,375.4	1,375.4	4.7	3.0	-134.11	105.6	2.8	114.1	107.6	6.53	17.482		
1,500.0	1,471.0	1,470.0	1,470.0	5.3	3.2	-143.58	105.6	2.8	139.3	132.4	6.92	20.132		
1,600.0	1,565.5	1,564.5	1,564.5	5.9	3.4	-150.13	105.6	2.8	167.0	159.7	7.35	22.737		
1,700.0	1,660.1	1,659.1	1,659.1	6.5	3.6	-154.82	105.6	2.8	196.2	188.4	7.80	25.163		
1,800.0	1,754.6	1,753.6	1,753.6	7.1	3.8	-158.31	105.6	2.8	226.4	218.1	8.27	27.373		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	EnCana Oil & Gas Weld County CO	<b>Local Co-ordinate Reference:</b>	Well Diane 6-4-28
<b>Project:</b>	SEC.28-T2N-R66W	<b>TVD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Reference Site:</b>	Diane 34-28 Pad Sec.28-T2N-R66W	<b>MD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Diane 6-4-28	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (4-03-12)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
1,900.0	1,849.2	1,848.2	1,848.2	7.7	4.0	-160.97	105.6	2.8	257.1	248.3	8.75	29.373		
2,000.0	1,943.8	1,942.8	1,942.8	8.3	4.3	-163.07	105.6	2.8	288.2	278.9	9.24	31.178		
2,100.0	2,038.3	2,037.3	2,037.3	8.9	4.5	-164.77	105.6	2.8	319.6	309.8	9.74	32.810		
2,200.0	2,132.9	2,131.9	2,131.9	9.5	4.7	-166.16	105.6	2.8	351.2	340.9	10.24	34.289		
2,300.0	2,227.4	2,226.4	2,226.4	10.2	4.9	-167.32	105.6	2.8	383.0	372.2	10.75	35.634		
2,400.0	2,322.0	2,321.0	2,321.0	10.8	5.1	-168.30	105.6	2.8	414.8	403.6	11.25	36.859		
2,500.0	2,416.5	2,415.5	2,415.5	11.4	5.3	-169.15	105.6	2.8	446.8	435.1	11.76	37.979		
2,600.0	2,511.1	2,510.1	2,510.1	12.1	5.5	-169.88	105.6	2.8	478.9	466.6	12.28	39.007		
2,700.0	2,605.7	2,604.7	2,604.7	12.7	5.7	-170.52	105.6	2.8	511.0	498.2	12.79	39.953		
2,800.0	2,700.2	2,699.2	2,699.2	13.3	6.0	-171.08	105.6	2.8	543.2	529.8	13.30	40.826		
2,900.0	2,794.8	2,793.8	2,793.8	14.0	6.2	-171.59	105.6	2.8	575.4	561.5	13.82	41.634		
3,000.0	2,889.3	2,888.3	2,888.3	14.6	6.4	-172.03	105.6	2.8	607.6	593.3	14.34	42.383		
3,100.0	2,983.9	2,982.9	2,982.9	15.2	6.6	-172.44	105.6	2.8	639.9	625.0	14.85	43.080		
3,200.0	3,078.4	3,077.4	3,077.4	15.9	6.8	-172.80	105.6	2.8	672.2	656.8	15.37	43.729		
3,300.0	3,173.0	3,172.0	3,172.0	16.5	7.0	-173.13	105.6	2.8	704.5	688.6	15.89	44.336		
3,400.0	3,267.6	3,266.6	3,266.6	17.2	7.2	-173.44	105.6	2.8	736.8	720.4	16.41	44.904		
3,500.0	3,362.1	3,361.1	3,361.1	17.8	7.4	-173.71	105.6	2.8	769.2	752.3	16.93	45.437		
3,600.0	3,456.7	3,455.7	3,455.7	18.4	7.7	-173.97	105.6	2.8	801.6	784.1	17.45	45.938		
3,700.0	3,551.2	3,550.2	3,550.2	19.1	7.9	-174.20	105.6	2.8	834.0	816.0	17.97	46.409		
3,800.0	3,645.8	3,644.8	3,644.8	19.7	8.1	-174.42	105.6	2.8	866.4	847.9	18.49	46.853		
3,900.0	3,740.3	3,739.3	3,739.3	20.3	8.3	-174.62	105.6	2.8	898.8	879.8	19.01	47.273		
4,000.0	3,834.9	3,833.9	3,833.9	21.0	8.5	-174.81	105.6	2.8	931.2	911.7	19.53	47.670		
4,100.0	3,929.5	3,928.5	3,928.5	21.6	8.7	-174.98	105.6	2.8	963.6	943.6	20.06	48.045		
4,200.0	4,024.0	4,023.0	4,023.0	22.3	8.9	-175.15	105.6	2.8	996.0	975.5	20.58	48.402		
4,300.0	4,118.6	4,117.6	4,117.6	22.9	9.1	-175.30	105.6	2.8	1,028.5	1,007.4	21.10	48.740		
4,400.0	4,213.1	4,212.1	4,212.1	23.6	9.4	-175.44	105.6	2.8	1,060.9	1,039.3	21.62	49.062		
4,500.0	4,307.7	4,306.7	4,306.7	24.2	9.6	-175.58	105.6	2.8	1,093.4	1,071.2	22.15	49.368		
4,600.0	4,402.2	4,401.2	4,401.2	24.8	9.8	-175.71	105.6	2.8	1,125.8	1,103.2	22.67	49.660		
4,700.0	4,496.8	4,495.8	4,495.8	25.5	10.0	-175.83	105.6	2.8	1,158.3	1,135.1	23.20	49.938		
4,800.0	4,591.4	4,590.4	4,590.4	26.1	10.2	-175.94	105.6	2.8	1,190.8	1,167.1	23.72	50.203		
4,900.0	4,685.9	4,684.9	4,684.9	26.8	10.4	-176.05	105.6	2.8	1,223.2	1,199.0	24.24	50.457		
5,000.0	4,780.5	4,779.5	4,779.5	27.4	10.6	-176.15	105.6	2.8	1,255.7	1,230.9	24.77	50.700		
5,100.0	4,875.0	4,874.0	4,874.0	28.0	10.8	-176.25	105.6	2.8	1,288.2	1,262.9	25.29	50.932		
5,198.1	4,967.8	4,966.8	4,966.8	28.7	11.1	-176.34	105.6	2.8	1,320.0	1,294.2	25.81	51.150		
5,200.0	4,969.6	4,968.6	4,968.6	28.7	11.1	-176.34	105.6	2.8	1,320.7	1,294.9	25.82	51.151		
5,300.0	5,064.7	5,063.7	5,063.7	29.2	11.3	-176.47	105.6	2.8	1,351.4	1,325.0	26.40	51.186		
5,400.0	5,160.9	5,159.9	5,159.9	29.6	11.5	-176.57	105.6	2.8	1,378.9	1,351.9	26.95	51.165		
5,500.0	5,257.9	5,256.9	5,256.9	30.0	11.7	-176.66	105.6	2.8	1,402.9	1,375.5	27.46	51.094		
5,600.0	5,355.7	5,354.7	5,354.7	30.3	11.9	-176.73	105.6	2.8	1,423.6	1,395.7	27.93	50.977		
5,700.0	5,454.2	5,453.2	5,453.2	30.7	12.1	-176.79	105.6	2.8	1,440.9	1,412.5	28.35	50.817		
5,800.0	5,553.3	5,552.3	5,552.3	30.9	12.4	-176.84	105.6	2.8	1,454.7	1,425.9	28.74	50.617		
5,900.0	5,652.7	5,651.7	5,651.7	31.1	12.6	-176.87	105.6	2.8	1,465.0	1,436.0	29.08	50.379		
6,000.0	5,752.5	5,751.5	5,751.5	31.3	12.8	-176.89	105.6	2.8	1,471.9	1,442.5	29.38	50.104		
6,100.0	5,852.4	5,851.4	5,851.4	31.4	13.0	-176.90	105.6	2.8	1,475.3	1,445.7	29.63	49.793		
6,147.6	5,900.0	5,899.0	5,899.0	31.5	13.1	-172.92	105.6	2.8	1,475.7	1,446.0	29.73	49.632		
6,200.0	5,952.4	5,951.4	5,951.4	31.5	13.3	-172.92	105.6	2.8	1,475.7	1,445.8	29.93	49.307		
6,300.0	6,052.4	6,051.4	6,051.4	31.6	13.5	-172.92	105.6	2.8	1,475.7	1,445.4	30.32	48.674		
6,400.0	6,152.4	6,151.4	6,151.4	31.7	13.7	-172.92	105.6	2.8	1,475.7	1,445.0	30.71	48.056		
6,500.0	6,252.4	6,251.4	6,251.4	31.8	13.9	-172.92	105.6	2.8	1,475.7	1,444.6	31.10	47.451		
6,600.0	6,352.4	6,351.4	6,351.4	31.9	14.2	-172.92	105.6	2.8	1,475.7	1,444.2	31.49	46.858		
6,700.0	6,452.4	6,451.4	6,451.4	32.0	14.4	-172.92	105.6	2.8	1,475.7	1,443.8	31.89	46.279		
6,800.0	6,552.4	6,551.4	6,551.4	32.1	14.6	-172.92	105.6	2.8	1,475.7	1,443.4	32.28	45.712		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	EnCana Oil & Gas Weld County CO	<b>Local Co-ordinate Reference:</b>	Well Diane 6-4-28
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<b>Reference Site:</b>	Diane 34-28 Pad Sec.28-T2N-R66W	<b>MD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Diane 6-4-28	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (4-03-12)	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> Diane 34-28 Pad Sec.28-T2N-R66W - Diane #1 (Exist.) - Wellbore #1 - Design #1													<b>Offset Site Error:</b> 0.0 ft
Survey Program: 0-MWD													<b>Offset Well Error:</b> 0.0 ft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
6,900.0	6,652.4	6,651.4	6,651.4	32.1	14.8	-172.92	105.6	2.8	1,475.7	1,443.0	32.68	45.157	
7,000.0	6,752.4	6,751.4	6,751.4	32.2	15.1	-172.92	105.6	2.8	1,475.7	1,442.6	33.08	44.614	
7,100.0	6,852.4	6,851.4	6,851.4	32.3	15.3	-172.92	105.6	2.8	1,475.7	1,442.2	33.48	44.082	
7,200.0	6,952.4	6,951.4	6,951.4	32.4	15.5	-172.92	105.6	2.8	1,475.7	1,441.8	33.88	43.562	
7,300.0	7,052.4	7,051.4	7,051.4	32.5	15.7	-172.92	105.6	2.8	1,475.7	1,441.4	34.28	43.052	
7,400.0	7,152.4	7,151.4	7,151.4	32.6	16.0	-172.92	105.6	2.8	1,475.7	1,441.0	34.68	42.552	
7,500.0	7,252.4	7,251.4	7,251.4	32.7	16.2	-172.92	105.6	2.8	1,475.7	1,440.6	35.08	42.063	
7,600.0	7,352.4	7,351.4	7,351.4	32.8	16.4	-172.92	105.6	2.8	1,475.7	1,440.2	35.49	41.584	
7,700.0	7,452.4	7,451.4	7,451.4	32.9	16.6	-172.92	105.6	2.8	1,475.7	1,439.8	35.89	41.115	
7,800.0	7,552.4	7,551.4	7,551.4	33.0	16.9	-172.92	105.6	2.8	1,475.7	1,439.4	36.30	40.655	
7,900.0	7,652.4	7,651.4	7,651.4	33.1	17.1	-172.92	105.6	2.8	1,475.7	1,439.0	36.71	40.204	
8,000.0	7,752.4	7,751.4	7,751.4	33.2	17.3	-172.92	105.6	2.8	1,475.7	1,438.6	37.11	39.762	
8,100.0	7,852.4	7,851.4	7,851.4	33.4	17.5	-172.92	105.6	2.8	1,475.7	1,438.2	37.52	39.329	
8,200.0	7,952.4	7,951.4	7,951.4	33.5	17.8	-172.92	105.6	2.8	1,475.7	1,437.8	37.93	38.905	
8,301.6	8,054.0	8,053.0	8,053.0	33.6	18.0	-172.92	105.6	2.8	1,475.7	1,437.4	38.35	38.482	

<b>Company:</b>	EnCana Oil & Gas Weld County CO	<b>Local Co-ordinate Reference:</b>	Well Diane 6-4-28
<b>Project:</b>	SEC.28-T2N-R66W	<b>TVD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Reference Site:</b>	Diane 34-28 Pad Sec.28-T2N-R66W	<b>MD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Diane 6-4-28	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (4-03-12)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.0	0.0	2.0	2.0	0.0	0.0	-89.97	0.0	-8.4	8.4	8.4	0.00	3,434.190		
100.0	100.0	102.0	102.0	0.1	0.1	-89.97	0.0	-8.4	8.4	8.2	0.23	36.604		
200.0	200.0	202.0	202.0	0.3	0.3	-89.97	0.0	-8.4	8.4	7.7	0.68	12.363 CC, ES		
300.0	300.0	302.0	302.0	0.6	0.6	-146.54	0.0	-8.4	9.8	8.7	1.13	8.671 SF		
400.0	399.8	401.8	401.8	0.8	0.8	-158.02	0.0	-8.4	14.5	12.9	1.59	9.111		
500.0	499.5	501.5	501.5	1.0	1.0	-166.21	0.0	-8.4	22.8	20.7	2.05	11.128		
600.0	598.7	600.7	600.7	1.3	1.2	-170.97	0.0	-8.4	34.7	32.2	2.51	13.853		
700.0	697.5	699.5	699.5	1.6	1.5	-173.74	0.0	-8.4	50.2	47.3	2.97	16.924		
800.0	795.9	797.9	797.9	2.0	1.7	-166.09	0.0	-8.4	67.8	64.4	3.42	19.830		
900.0	894.0	896.0	896.0	2.4	1.9	-160.92	0.0	-8.4	86.3	82.4	3.87	22.279		
1,000.0	991.7	993.7	993.7	2.8	2.1	-157.64	0.0	-8.4	106.1	101.8	4.34	24.484		
1,100.0	1,088.9	1,090.9	1,090.9	3.2	2.3	-155.74	0.0	-8.4	127.7	122.9	4.80	26.596		
1,200.0	1,185.5	1,183.1	1,183.1	3.6	2.5	-154.64	-1.0	-9.1	152.5	147.3	5.25	29.075		
1,300.0	1,281.4	1,272.5	1,272.4	4.1	2.7	-154.02	-4.2	-11.4	182.7	177.0	5.69	32.128		
1,398.2	1,374.7	1,357.7	1,357.3	4.7	2.9	-153.57	-9.5	-15.1	217.4	211.3	6.12	35.505		
1,400.0	1,376.4	1,359.2	1,358.9	4.7	2.9	-153.63	-9.6	-15.1	218.1	212.0	6.13	35.569		
1,500.0	1,471.0	1,443.4	1,442.6	5.3	3.0	-156.36	-16.8	-20.2	257.7	251.2	6.59	39.130		
1,600.0	1,565.5	1,525.5	1,524.0	5.9	3.2	-158.26	-25.8	-26.6	300.4	293.3	7.05	42.619		
1,700.0	1,660.1	1,605.5	1,602.9	6.5	3.4	-159.60	-36.3	-34.0	345.7	338.2	7.51	46.010		
1,800.0	1,754.6	1,683.3	1,679.3	7.1	3.6	-160.55	-48.4	-42.5	393.6	385.6	7.99	49.278		
1,900.0	1,849.2	1,769.3	1,763.5	7.7	3.9	-161.33	-62.7	-52.6	442.9	434.4	8.48	52.247		
2,000.0	1,943.8	1,856.2	1,848.5	8.3	4.2	-161.97	-77.2	-62.9	492.2	483.2	8.96	54.913		
2,100.0	2,038.3	1,943.0	1,933.5	8.9	4.5	-162.48	-91.8	-73.1	541.6	532.1	9.46	57.268		
2,200.0	2,132.9	2,029.9	2,018.6	9.5	4.9	-162.92	-106.3	-83.4	591.0	581.0	9.97	59.304		
2,300.0	2,227.4	2,116.8	2,103.6	10.2	5.2	-163.28	-120.8	-93.6	640.4	629.9	10.47	61.161		
2,400.0	2,322.0	2,203.6	2,188.6	10.8	5.5	-163.59	-135.3	-103.8	689.9	678.9	10.98	62.802		
2,500.0	2,416.5	2,290.5	2,273.6	11.4	5.9	-163.86	-149.8	-114.1	739.3	727.8	11.50	64.266		
2,600.0	2,511.1	2,377.4	2,358.7	12.1	6.2	-164.10	-164.4	-124.3	788.8	776.8	12.03	65.581		
2,700.0	2,605.7	2,464.2	2,443.7	12.7	6.6	-164.31	-178.9	-134.6	838.3	825.7	12.55	66.768		
2,800.0	2,700.2	2,551.1	2,528.7	13.3	7.0	-164.50	-193.4	-144.8	887.7	874.7	13.09	67.843		
2,900.0	2,794.8	2,638.0	2,613.8	14.0	7.3	-164.66	-207.9	-155.1	937.2	923.6	13.62	68.820		
3,000.0	2,889.3	2,724.8	2,698.8	14.6	7.7	-164.81	-222.4	-165.3	986.7	972.6	14.15	69.710		
3,100.0	2,983.9	2,811.7	2,783.8	15.2	8.1	-164.95	-237.0	-175.5	1,036.2	1,021.5	14.69	70.524		
3,200.0	3,078.4	2,898.6	2,868.8	15.9	8.4	-165.07	-251.5	-185.8	1,085.7	1,070.5	15.23	71.270		
3,300.0	3,173.0	2,985.4	2,953.9	16.5	8.8	-165.18	-266.0	-196.0	1,135.2	1,119.5	15.78	71.954		
3,400.0	3,267.6	3,072.3	3,038.9	17.2	9.2	-165.29	-280.5	-206.3	1,184.7	1,168.4	16.32	72.586		
3,500.0	3,362.1	3,159.1	3,123.9	17.8	9.6	-165.38	-295.0	-216.5	1,234.2	1,217.4	16.87	73.169		
3,600.0	3,456.7	3,246.0	3,208.9	18.4	10.0	-165.47	-309.6	-226.8	1,283.8	1,266.3	17.42	73.710		
3,700.0	3,551.2	3,332.9	3,294.0	19.1	10.3	-165.55	-324.1	-237.0	1,333.3	1,315.3	17.97	74.212		
3,800.0	3,645.8	3,419.7	3,379.0	19.7	10.7	-165.62	-338.6	-247.2	1,382.8	1,364.3	18.52	74.679		
3,900.0	3,740.3	3,506.6	3,464.0	20.3	11.1	-165.69	-353.1	-257.5	1,432.3	1,413.2	19.07	75.115		
4,000.0	3,834.9	3,593.5	3,549.1	21.0	11.5	-165.76	-367.6	-267.7	1,481.8	1,462.2	19.62	75.521		
4,100.0	3,929.5	3,680.3	3,634.1	21.6	11.9	-165.82	-382.2	-278.0	1,531.4	1,511.2	20.18	75.901		
4,200.0	4,024.0	3,767.2	3,719.1	22.3	12.3	-165.88	-396.7	-288.2	1,580.9	1,560.2	20.73	76.258		
4,300.0	4,118.6	3,854.1	3,804.1	22.9	12.6	-165.93	-411.2	-298.4	1,630.4	1,609.1	21.29	76.592		
4,400.0	4,213.1	3,940.9	3,889.2	23.6	13.0	-165.98	-425.7	-308.7	1,679.9	1,658.1	21.84	76.906		
4,500.0	4,307.7	4,027.8	3,974.2	24.2	13.4	-166.03	-440.2	-318.9	1,729.5	1,707.1	22.40	77.202		
4,600.0	4,402.2	4,114.7	4,059.2	24.8	13.8	-166.07	-454.8	-329.2	1,779.0	1,756.0	22.96	77.481		
4,700.0	4,496.8	4,201.5	4,144.3	25.5	14.2	-166.12	-469.3	-339.4	1,828.5	1,805.0	23.52	77.745		
4,800.0	4,591.4	4,288.4	4,229.3	26.1	14.6	-166.16	-483.8	-349.7	1,878.0	1,854.0	24.08	77.993		
4,900.0	4,685.9	4,375.3	4,314.3	26.8	15.0	-166.19	-498.3	-359.9	1,927.6	1,902.9	24.64	78.229		
5,000.0	4,780.5	4,462.1	4,399.3	27.4	15.4	-166.23	-512.8	-370.1	1,977.1	1,951.9	25.20	78.452		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	EnCana Oil & Gas Weld County CO	<b>Local Co-ordinate Reference:</b>	Well Diane 6-4-28
<b>Project:</b>	SEC.28-T2N-R66W	<b>TVD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Reference Site:</b>	Diane 34-28 Pad Sec.28-T2N-R66W	<b>MD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Diane 6-4-28	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (4-03-12)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 ft
Survey Program: 0-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
5,100.0	4,875.0	4,549.0	4,484.4	28.0	15.7	-166.27	-527.4	-380.4	2,026.6	2,000.9	25.76	78.663	
5,198.1	4,967.8	4,634.2	4,567.8	28.7	16.1	-166.30	-541.6	-390.4	2,075.2	2,048.9	26.32	78.860	
5,200.0	4,969.6	4,635.9	4,569.4	28.7	16.1	-166.30	-541.9	-390.6	2,076.2	2,049.8	26.33	78.856	
5,300.0	5,064.7	4,723.6	4,655.3	29.2	16.5	-166.58	-556.5	-401.0	2,124.2	2,097.2	26.97	78.749	
5,400.0	5,160.9	4,812.9	4,742.7	29.6	16.9	-166.80	-571.5	-411.5	2,169.1	2,141.6	27.59	78.615	
5,500.0	5,257.9	4,903.7	4,831.5	30.0	17.3	-166.98	-586.6	-422.2	2,211.1	2,182.9	28.18	78.462	
5,600.0	5,355.7	4,995.8	4,921.7	30.3	17.8	-167.12	-602.0	-433.1	2,249.9	2,221.2	28.74	78.296	
5,700.0	5,454.2	5,089.2	5,013.1	30.7	18.2	-167.22	-617.7	-444.1	2,285.6	2,256.3	29.26	78.121	
5,800.0	5,553.3	5,489.7	5,409.7	30.9	19.2	-167.21	-662.1	-475.4	2,311.8	2,281.5	30.33	76.225	
5,900.0	5,652.7	5,734.9	5,654.7	31.1	19.6	-167.36	-667.3	-479.1	2,323.3	2,292.4	30.94	75.094	
6,000.0	5,752.5	5,834.7	5,754.5	31.3	19.7	-167.42	-667.3	-479.1	2,330.1	2,298.8	31.24	74.580	
6,100.0	5,852.4	5,934.6	5,854.4	31.4	19.8	-167.45	-667.3	-479.1	2,333.4	2,301.9	31.50	74.074	
6,147.6	5,900.0	5,982.2	5,902.0	31.5	19.9	-163.48	-667.3	-479.1	2,333.8	2,302.2	31.61	73.836	
6,200.0	5,952.4	6,034.6	5,954.4	31.5	19.9	-163.48	-667.3	-479.1	2,333.8	2,302.0	31.77	73.451	
6,300.0	6,052.4	6,134.6	6,054.4	31.6	20.0	-163.48	-667.3	-479.1	2,333.8	2,301.7	32.10	72.693	
6,400.0	6,152.4	6,234.6	6,154.4	31.7	20.2	-163.48	-667.3	-479.1	2,333.8	2,301.3	32.44	71.944	
6,500.0	6,252.4	6,334.6	6,254.4	31.8	20.3	-163.48	-667.3	-479.1	2,333.8	2,301.0	32.78	71.204	
6,600.0	6,352.4	6,434.6	6,354.4	31.9	20.4	-163.48	-667.3	-479.1	2,333.8	2,300.7	33.12	70.474	
6,700.0	6,452.4	6,534.6	6,454.4	32.0	20.6	-163.48	-667.3	-479.1	2,333.8	2,300.3	33.46	69.753	
6,800.0	6,552.4	6,634.6	6,554.4	32.1	20.7	-163.48	-667.3	-479.1	2,333.8	2,300.0	33.80	69.041	
6,900.0	6,652.4	6,734.6	6,654.4	32.1	20.8	-163.48	-667.3	-479.1	2,333.8	2,299.6	34.15	68.339	
7,000.0	6,752.4	6,834.6	6,754.4	32.2	21.0	-163.48	-667.3	-479.1	2,333.8	2,299.3	34.50	67.647	
7,100.0	6,852.4	6,934.6	6,854.4	32.3	21.1	-163.48	-667.3	-479.1	2,333.8	2,298.9	34.85	66.964	
7,200.0	6,952.4	7,034.6	6,954.4	32.4	21.2	-163.48	-667.3	-479.1	2,333.8	2,298.6	35.21	66.291	
7,300.0	7,052.4	7,134.6	7,054.4	32.5	21.4	-163.48	-667.3	-479.1	2,333.8	2,298.2	35.56	65.627	
7,400.0	7,152.4	7,234.6	7,154.4	32.6	21.5	-163.48	-667.3	-479.1	2,333.8	2,297.9	35.92	64.972	
7,500.0	7,252.4	7,334.6	7,254.4	32.7	21.7	-163.48	-667.3	-479.1	2,333.8	2,297.5	36.28	64.327	
7,600.0	7,352.4	7,434.6	7,354.4	32.8	21.8	-163.48	-667.3	-479.1	2,333.8	2,297.1	36.64	63.691	
7,700.0	7,452.4	7,534.6	7,454.4	32.9	21.9	-163.48	-667.3	-479.1	2,333.8	2,296.8	37.01	63.065	
7,800.0	7,552.4	7,634.6	7,554.4	33.0	22.1	-163.48	-667.3	-479.1	2,333.8	2,296.4	37.37	62.447	
7,900.0	7,652.4	7,734.6	7,654.4	33.1	22.2	-163.48	-667.3	-479.1	2,333.8	2,296.0	37.74	61.839	
8,000.0	7,752.4	7,834.6	7,754.4	33.2	22.4	-163.48	-667.3	-479.1	2,333.8	2,295.7	38.11	61.239	
8,100.0	7,852.4	7,934.6	7,854.4	33.4	22.5	-163.48	-667.3	-479.1	2,333.8	2,295.3	38.48	60.648	
8,200.0	7,952.4	8,034.6	7,954.4	33.5	22.7	-163.48	-667.3	-479.1	2,333.8	2,294.9	38.85	60.066	
8,301.6	8,054.0	8,136.2	8,056.0	33.6	22.9	-163.48	-667.3	-479.1	2,333.8	2,294.5	39.23	59.484	



<b>Company:</b>	EnCana Oil & Gas Weld County CO	<b>Local Co-ordinate Reference:</b>	Well Diane 6-4-28
<b>Project:</b>	SEC.28-T2N-R66W	<b>TVD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Reference Site:</b>	Diane 34-28 Pad Sec.28-T2N-R66W	<b>MD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Diane 6-4-28	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (4-03-12)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	90.04	0.0	11.2	11.2	11.2	0.00	N/A		
100.0	100.0	100.0	100.0	0.1	0.1	90.04	0.0	11.2	11.2	11.0	0.22	49.782		
200.0	200.0	200.0	200.0	0.3	0.3	90.04	0.0	11.2	11.2	10.5	0.67	16.594 CC		
300.0	300.0	299.6	299.6	0.6	0.6	44.23	0.3	12.9	11.6	10.5	1.11	10.438 ES		
400.0	399.8	399.2	399.0	0.8	0.8	54.94	1.1	18.0	13.2	11.6	1.55	8.471		
500.0	499.5	498.6	498.1	1.0	1.0	67.50	2.4	26.5	16.5	14.5	2.03	8.109 SF		
600.0	598.7	597.9	596.6	1.3	1.3	77.96	4.3	38.4	22.0	19.4	2.58	8.499		
700.0	697.5	697.0	694.5	1.6	1.6	85.39	6.7	53.7	29.6	26.4	3.22	9.179		
800.0	795.9	795.7	791.4	2.0	2.0	99.04	9.6	72.1	41.0	37.0	3.93	10.421		
900.0	894.0	893.4	886.7	2.4	2.4	107.61	13.0	93.7	57.5	52.8	4.67	12.310		
1,000.0	991.7	989.8	979.8	2.8	2.9	113.37	16.8	118.0	79.1	73.7	5.46	14.504		
1,100.0	1,088.9	1,084.4	1,070.4	3.2	3.5	117.49	21.1	145.0	105.9	99.6	6.28	16.858		
1,200.0	1,185.5	1,179.5	1,161.1	3.6	4.0	121.11	25.6	173.5	136.7	129.5	7.14	19.147		
1,300.0	1,281.4	1,273.6	1,250.7	4.1	4.6	124.64	30.0	201.6	170.6	162.6	8.01	21.296		
1,398.2	1,374.7	1,364.9	1,337.7	4.7	5.2	127.82	34.3	228.9	206.8	198.0	8.88	23.291		
1,400.0	1,376.4	1,366.5	1,339.3	4.7	5.2	127.83	34.4	229.4	207.5	198.6	8.90	23.324		
1,500.0	1,471.0	1,458.8	1,427.2	5.3	5.8	128.13	38.7	257.1	246.0	236.1	9.85	24.959		
1,600.0	1,565.5	1,551.1	1,515.2	5.9	6.3	128.35	43.1	284.7	284.4	273.6	10.82	26.283		
1,700.0	1,660.1	1,643.5	1,603.2	6.5	6.9	128.52	47.4	312.4	322.8	311.0	11.79	27.374		
1,800.0	1,754.6	1,735.8	1,691.2	7.1	7.5	128.66	51.8	340.0	361.2	348.5	12.77	28.286		
1,900.0	1,849.2	1,828.1	1,779.1	7.7	8.1	128.76	56.2	367.6	399.7	385.9	13.75	29.061		
2,000.0	1,943.8	1,920.4	1,867.1	8.3	8.7	128.85	60.5	395.3	438.1	423.4	14.74	29.725		
2,100.0	2,038.3	2,012.7	1,955.1	8.9	9.3	128.93	64.9	422.9	476.6	460.8	15.73	30.300		
2,200.0	2,132.9	2,105.0	2,043.1	9.5	9.8	128.99	69.2	450.6	515.0	498.3	16.72	30.804		
2,300.0	2,227.4	2,197.4	2,131.0	10.2	10.4	129.05	73.6	478.2	553.4	535.7	17.71	31.247		
2,400.0	2,322.0	2,289.7	2,219.0	10.8	11.0	129.09	77.9	505.9	591.9	573.2	18.71	31.641		
2,500.0	2,416.5	2,382.0	2,307.0	11.4	11.6	129.14	82.3	533.5	630.3	610.6	19.70	31.993		
2,600.0	2,511.1	2,474.3	2,394.9	12.1	12.2	129.17	86.6	561.1	668.7	648.0	20.70	32.309		
2,700.0	2,605.7	2,566.6	2,482.9	12.7	12.8	129.21	91.0	588.8	707.2	685.5	21.70	32.594		
2,800.0	2,700.2	2,658.9	2,570.9	13.3	13.4	129.24	95.3	616.4	745.6	722.9	22.70	32.853		
2,900.0	2,794.8	2,751.3	2,658.9	14.0	14.0	129.26	99.7	644.1	784.1	760.4	23.70	33.089		
3,000.0	2,889.3	2,843.6	2,746.8	14.6	14.6	129.29	104.1	671.7	822.5	797.8	24.70	33.305		
3,100.0	2,983.9	2,935.9	2,834.8	15.2	15.1	129.31	108.4	699.3	860.9	835.2	25.70	33.504		
3,200.0	3,078.4	3,028.2	2,922.8	15.9	15.7	129.33	112.8	727.0	899.4	872.7	26.70	33.687		
3,300.0	3,173.0	3,120.5	3,010.8	16.5	16.3	129.35	117.1	754.6	937.8	910.1	27.70	33.856		
3,400.0	3,267.6	3,212.8	3,098.7	17.2	16.9	129.36	121.5	782.3	976.2	947.5	28.70	34.012		
3,500.0	3,362.1	3,305.2	3,186.7	17.8	17.5	129.38	125.8	809.9	1,014.7	985.0	29.71	34.158		
3,600.0	3,456.7	3,397.5	3,274.7	18.4	18.1	129.39	130.2	837.5	1,053.1	1,022.4	30.71	34.293		
3,700.0	3,551.2	3,489.8	3,362.7	19.1	18.7	129.41	134.5	865.2	1,091.6	1,059.9	31.71	34.420		
3,800.0	3,645.8	3,582.1	3,450.6	19.7	19.3	129.42	138.9	892.8	1,130.0	1,097.3	32.72	34.539		
3,900.0	3,740.3	3,674.4	3,538.6	20.3	19.9	129.43	143.3	920.5	1,168.4	1,134.7	33.72	34.650		
4,000.0	3,834.9	3,766.7	3,626.6	21.0	20.5	129.44	147.6	948.1	1,206.9	1,172.2	34.73	34.754		
4,100.0	3,929.5	3,859.1	3,714.6	21.6	21.1	129.45	152.0	975.7	1,245.3	1,209.6	35.73	34.853		
4,200.0	4,024.0	3,951.4	3,802.5	22.3	21.7	129.46	156.3	1,003.4	1,283.8	1,247.0	36.74	34.945		
4,300.0	4,118.6	4,043.7	3,890.5	22.9	22.2	129.47	160.7	1,031.0	1,322.2	1,284.5	37.74	35.033		
4,400.0	4,213.1	4,136.0	3,978.5	23.6	22.8	129.48	165.0	1,058.7	1,360.6	1,321.9	38.75	35.116		
4,500.0	4,307.7	4,228.3	4,066.4	24.2	23.4	129.49	169.4	1,086.3	1,399.1	1,359.3	39.75	35.194		
4,600.0	4,402.2	4,320.6	4,154.4	24.8	24.0	129.50	173.7	1,114.0	1,437.5	1,396.8	40.76	35.269		
4,700.0	4,496.8	4,413.0	4,242.4	25.5	24.6	129.50	178.1	1,141.6	1,476.0	1,434.2	41.77	35.339		
4,800.0	4,591.4	4,505.3	4,330.4	26.1	25.2	129.51	182.5	1,169.2	1,514.4	1,471.6	42.77	35.407		
4,900.0	4,685.9	4,597.6	4,418.3	26.8	25.8	129.52	186.8	1,196.9	1,552.8	1,509.1	43.78	35.471		
5,000.0	4,780.5	4,689.9	4,506.3	27.4	26.4	129.52	191.2	1,224.5	1,591.3	1,546.5	44.78	35.532		

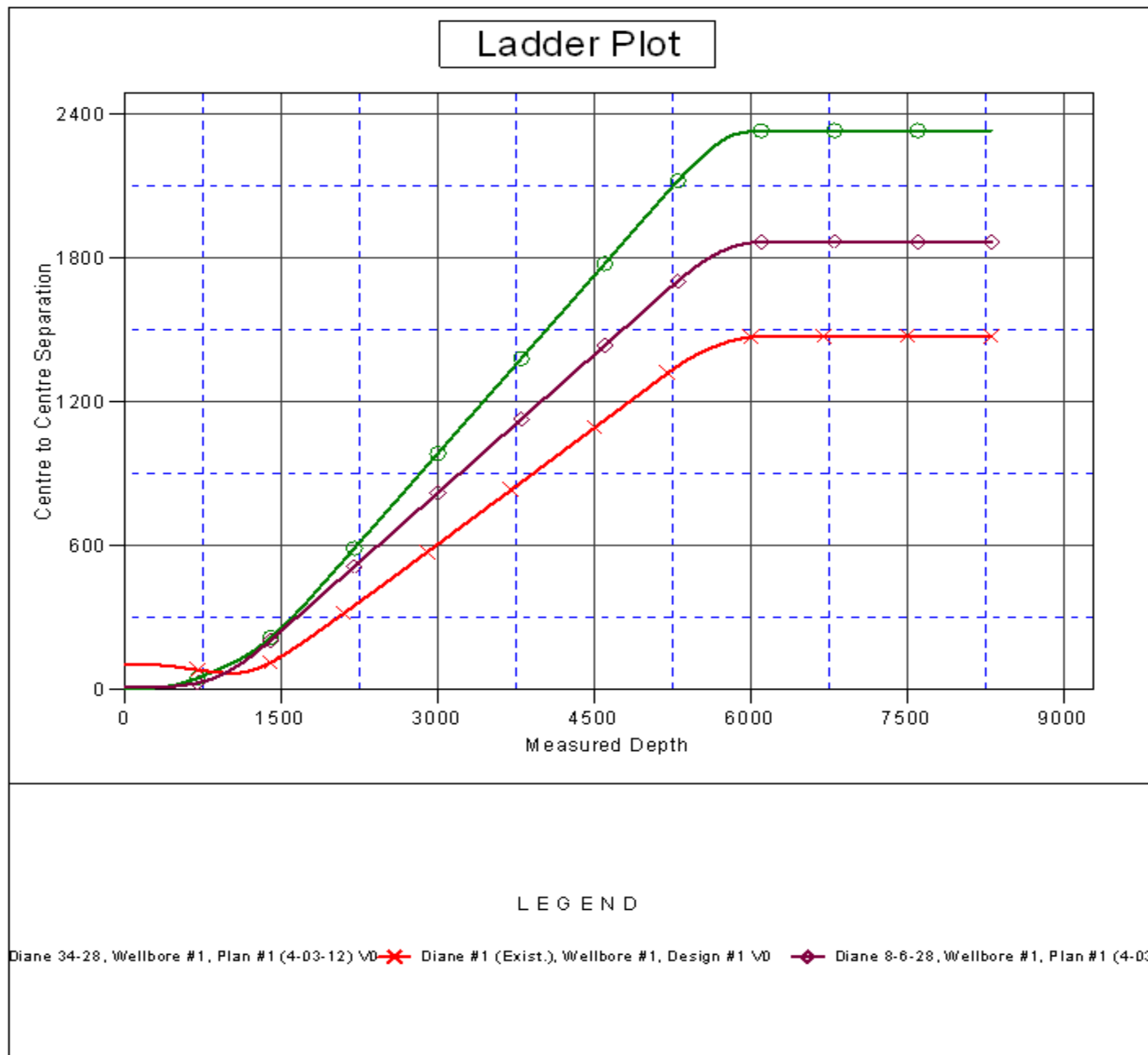
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	EnCana Oil & Gas Weld County CO	<b>Local Co-ordinate Reference:</b>	Well Diane 6-4-28
<b>Project:</b>	SEC.28-T2N-R66W	<b>TVD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Reference Site:</b>	Diane 34-28 Pad Sec.28-T2N-R66W	<b>MD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Diane 6-4-28	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (4-03-12)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design		Diane 34-28 Pad Sec.28-T2N-R66W - Diane 8-6-28 - Wellbore #1 - Plan #1 (4-03-12)										Offset Site Error:		0.0 ft
Survey Program: 0-MWD												Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,100.0	4,875.0	4,782.2	4,594.3	28.0	27.0	129.53	195.5	1,252.2	1,629.7	1,583.9	45.79	35.590		
5,198.1	4,967.8	4,872.8	4,680.6	28.7	27.6	129.54	199.8	1,279.3	1,667.4	1,620.6	46.78	35.644		
5,200.0	4,969.6	4,874.5	4,682.3	28.7	27.6	129.55	199.9	1,279.8	1,668.2	1,621.4	46.80	35.643		
5,300.0	5,064.7	4,967.3	4,770.6	29.2	28.2	130.12	204.2	1,307.6	1,705.5	1,657.6	47.88	35.619		
5,400.0	5,160.9	5,060.8	4,859.7	29.6	28.8	130.56	208.7	1,335.6	1,740.8	1,691.9	48.92	35.581		
5,500.0	5,257.9	5,165.2	4,959.3	30.0	29.4	130.84	213.6	1,366.7	1,773.9	1,723.9	49.96	35.507		
5,600.0	5,355.7	5,314.1	5,102.7	30.3	30.1	130.98	219.8	1,406.2	1,803.0	1,752.0	51.00	35.349		
5,700.0	5,454.2	5,467.1	5,252.0	30.7	30.7	131.11	225.0	1,439.0	1,826.9	1,775.0	51.90	35.202		
5,800.0	5,553.3	5,623.3	5,406.1	30.9	31.1	131.25	229.0	1,464.4	1,845.6	1,792.9	52.65	35.053		
5,900.0	5,652.7	5,781.9	5,563.7	31.1	31.5	131.39	231.7	1,481.6	1,858.8	1,805.6	53.25	34.909		
6,000.0	5,752.5	5,942.1	5,723.6	31.3	31.7	131.54	233.0	1,490.3	1,866.5	1,812.9	53.68	34.769		
6,100.0	5,852.4	6,070.9	5,852.4	31.4	31.8	131.66	233.2	1,491.3	1,869.2	1,815.2	53.96	34.643		
6,147.6	5,900.0	6,118.5	5,900.0	31.5	31.9	135.66	233.2	1,491.3	1,869.4	1,815.4	54.05	34.590		
6,200.0	5,952.4	6,170.9	5,952.4	31.5	31.9	135.66	233.2	1,491.3	1,869.4	1,815.3	54.15	34.525		
6,300.0	6,052.4	6,270.9	6,052.4	31.6	32.0	135.66	233.2	1,491.3	1,869.4	1,815.1	54.35	34.398		
6,400.0	6,152.4	6,370.9	6,152.4	31.7	32.1	135.66	233.2	1,491.3	1,869.4	1,814.9	54.55	34.271		
6,500.0	6,252.4	6,470.9	6,252.4	31.8	32.2	135.66	233.2	1,491.3	1,869.4	1,814.7	54.75	34.142		
6,600.0	6,352.4	6,570.9	6,352.4	31.9	32.3	135.66	233.2	1,491.3	1,869.4	1,814.5	54.96	34.013		
6,700.0	6,452.4	6,670.9	6,452.4	32.0	32.4	135.66	233.2	1,491.3	1,869.4	1,814.3	55.17	33.882		
6,800.0	6,552.4	6,770.9	6,552.4	32.1	32.5	135.66	233.2	1,491.3	1,869.4	1,814.0	55.39	33.751		
6,900.0	6,652.4	6,870.9	6,652.4	32.1	32.6	135.66	233.2	1,491.3	1,869.4	1,813.8	55.61	33.620		
7,000.0	6,752.4	6,970.9	6,752.4	32.2	32.7	135.66	233.2	1,491.3	1,869.4	1,813.6	55.83	33.487		
7,100.0	6,852.4	7,070.9	6,852.4	32.3	32.8	135.66	233.2	1,491.3	1,869.4	1,813.4	56.05	33.354		
7,200.0	6,952.4	7,170.9	6,952.4	32.4	32.9	135.66	233.2	1,491.3	1,869.4	1,813.2	56.27	33.221		
7,300.0	7,052.4	7,270.9	7,052.4	32.5	33.0	135.66	233.2	1,491.3	1,869.4	1,812.9	56.50	33.087		
7,400.0	7,152.4	7,370.9	7,152.4	32.6	33.1	135.66	233.2	1,491.3	1,869.4	1,812.7	56.73	32.952		
7,500.0	7,252.4	7,470.9	7,252.4	32.7	33.2	135.66	233.2	1,491.3	1,869.4	1,812.5	56.96	32.818		
7,600.0	7,352.4	7,570.9	7,352.4	32.8	33.3	135.66	233.2	1,491.3	1,869.4	1,812.2	57.20	32.682		
7,700.0	7,452.4	7,670.9	7,452.4	32.9	33.4	135.66	233.2	1,491.3	1,869.4	1,812.0	57.44	32.547		
7,800.0	7,552.4	7,770.9	7,552.4	33.0	33.5	135.66	233.2	1,491.3	1,869.4	1,811.8	57.68	32.411		
7,900.0	7,652.4	7,870.9	7,652.4	33.1	33.6	135.66	233.2	1,491.3	1,869.4	1,811.5	57.92	32.275		
8,000.0	7,752.4	7,970.9	7,752.4	33.2	33.7	135.66	233.2	1,491.3	1,869.4	1,811.3	58.17	32.138		
8,100.0	7,852.4	8,070.9	7,852.4	33.4	33.8	135.66	233.2	1,491.3	1,869.4	1,811.0	58.42	32.002		
8,200.0	7,952.4	8,170.9	7,952.4	33.5	33.9	135.66	233.2	1,491.3	1,869.4	1,810.8	58.67	31.865		
8,264.4	8,016.8	8,235.3	8,016.8	33.5	34.0	135.66	233.2	1,491.3	1,869.4	1,810.6	58.83	31.777		
8,301.6	8,054.0	8,263.5	8,045.0	33.6	34.0	135.66	233.2	1,491.3	1,869.5	1,810.5	58.91	31.733		

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<b>Reference Site:</b>	Diane 34-28 Pad Sec.28-T2N-R66W	<b>MD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Diane 6-4-28	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (4-03-12)	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to WELL @ 4982.0ft (Original Well Elev) Coordinates are relative to: Diane 6-4-28  
 Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1983, Colorado Northern Zone  
 Central Meridian is -105.500000 ° Grid Convergence at Surface is: 0.47°



<b>Company:</b>	EnCana Oil & Gas Weld County CO	<b>Local Co-ordinate Reference:</b>	Well Diane 6-4-28
<b>Project:</b>	SEC.28-T2N-R66W	<b>TVD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Reference Site:</b>	Diane 34-28 Pad Sec.28-T2N-R66W	<b>MD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Diane 6-4-28	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (4-03-12)	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to WELL @ 4982.0ft (Original Well Elev) Coordinates are relative to: Diane 6-4-28  
Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1983, Colorado Northern Zone  
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