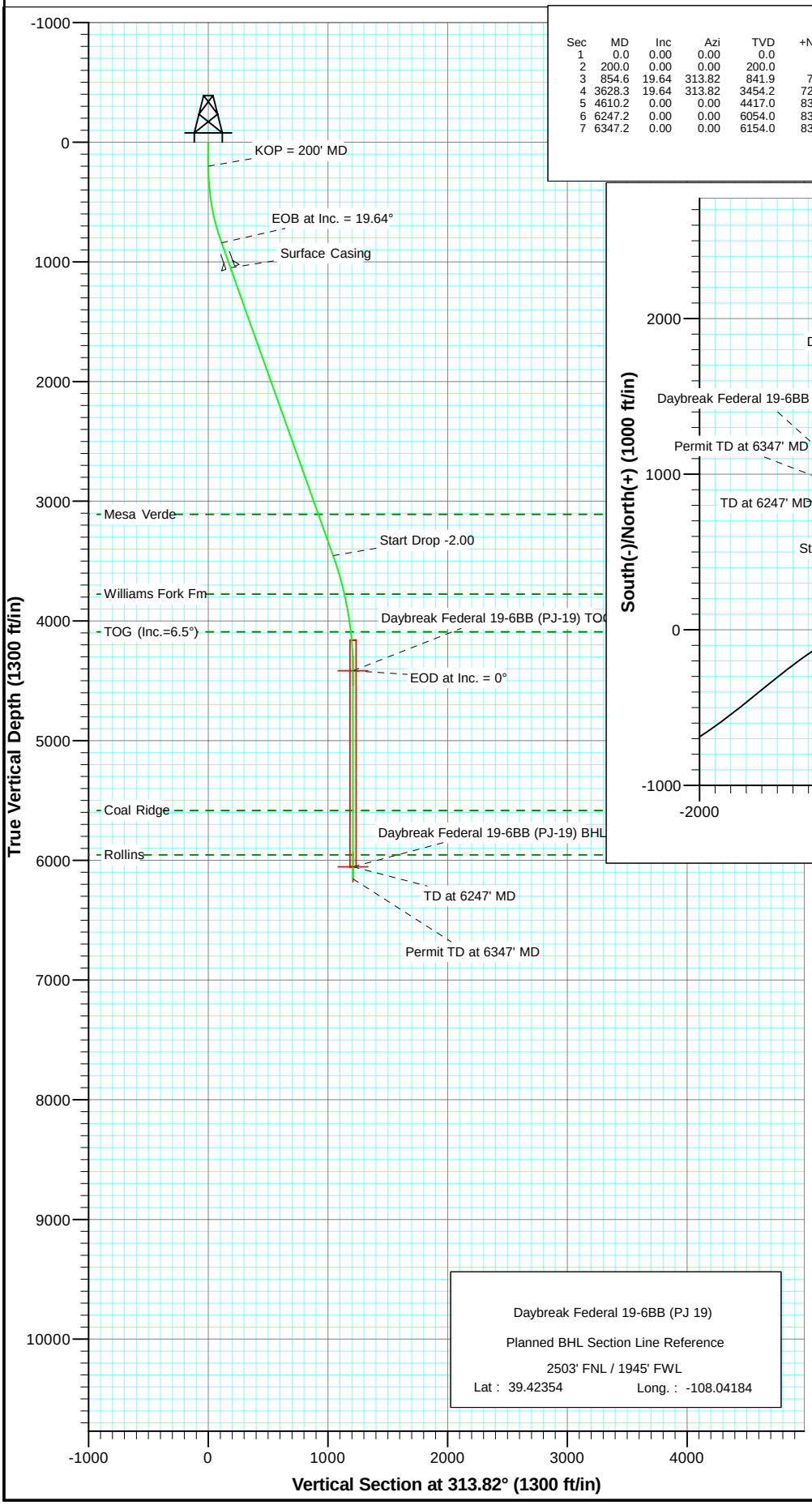
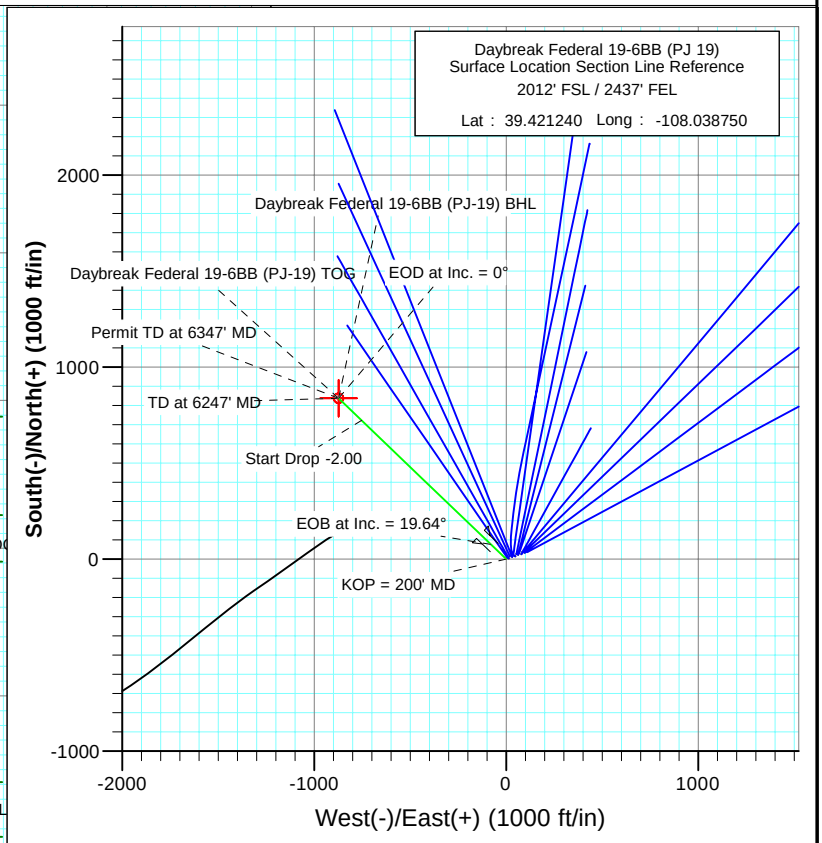
Project: S. Piceance
Site: NWSE S19-T7S-R95W (PJ-19 Pad)
Well: Daybreak Federal 19-6BB (PJ 19)
Wellbore: DD
Plan: Plan #2

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSect	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	854.6	19.64	313.82	841.9	76.9	-80.1	3.00	313.82	111.1	
4	3628.3	19.64	313.82	3454.2	722.4	-752.7	0.00	0.00	1043.2	
5	4610.2	0.00	0.00	4417.0	837.8	-872.9	2.00	180.00	1209.9	Daybreak Federal 19-6BB (PJ-19) TOG
6	6247.2	0.00	0.00	6054.0	837.8	-872.9	0.00	0.00	1209.9	Daybreak Federal 19-6BB (PJ-19) BHL
7	6347.2	0.00	0.00	6154.0	837.8	-872.9	0.00	0.00	1209.9	

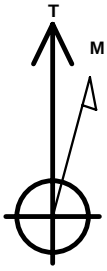




FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3110.0	3262.8	Mesa Verde
3775.0	3962.7	Williams Fork Fm
4092.0	4284.5	TOG (Inc.=6.5°)
5584.0	5777.2	Coal Ridge
5954.0	6147.2	Rollins

Daybreak Federal 19-6BB (PJ 19)
Planned BHL Section Line Reference
2503' FNL / 1945' FWL
Lat : 39.42354 Long. : -108.04184



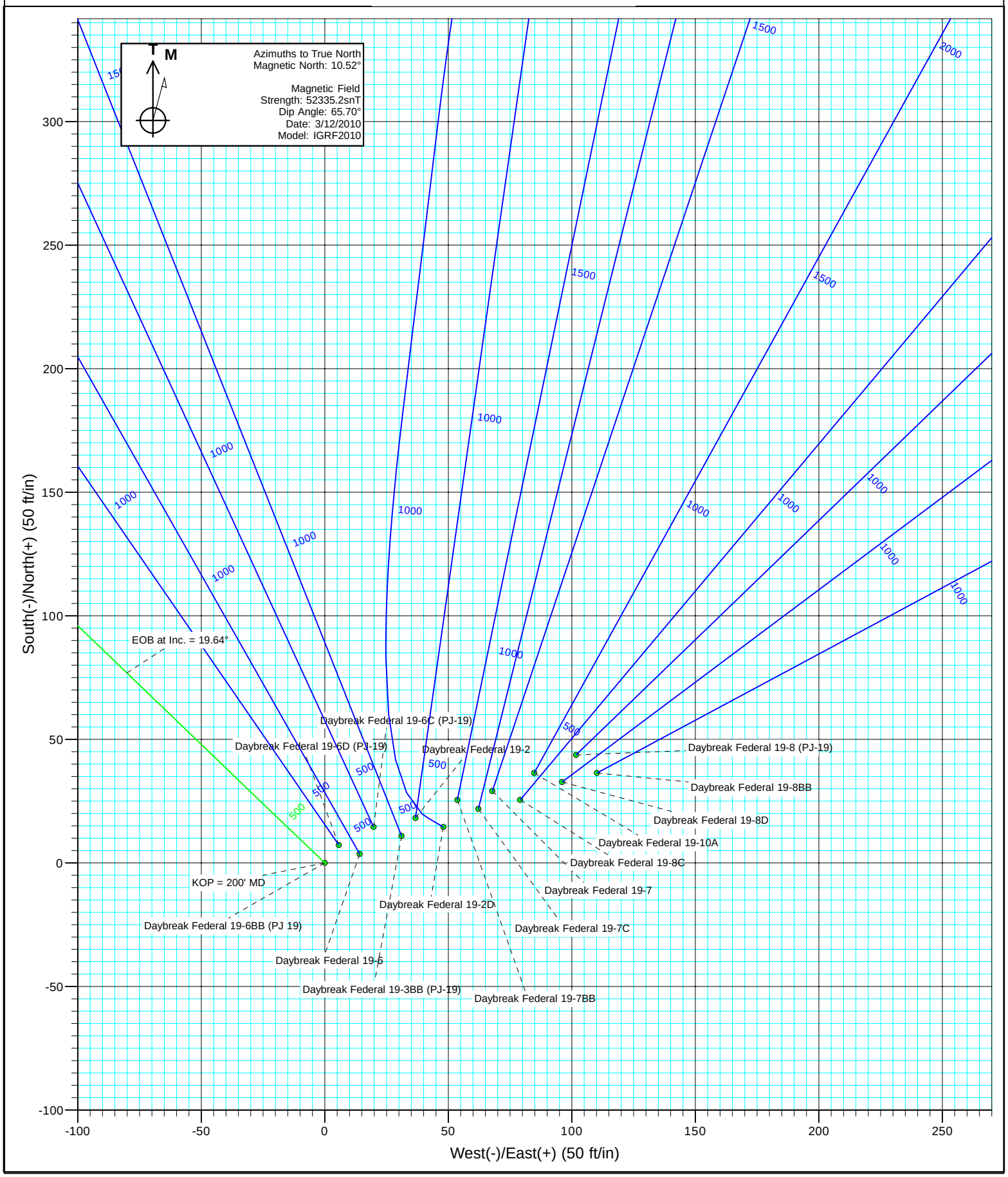
Azimuths to True North
Magnetic North: 10.52°

Magnetic Field
Strength: 52335.2snT
Dip Angle: 65.70°
Date: 3/12/2010
Model: IGRF2010

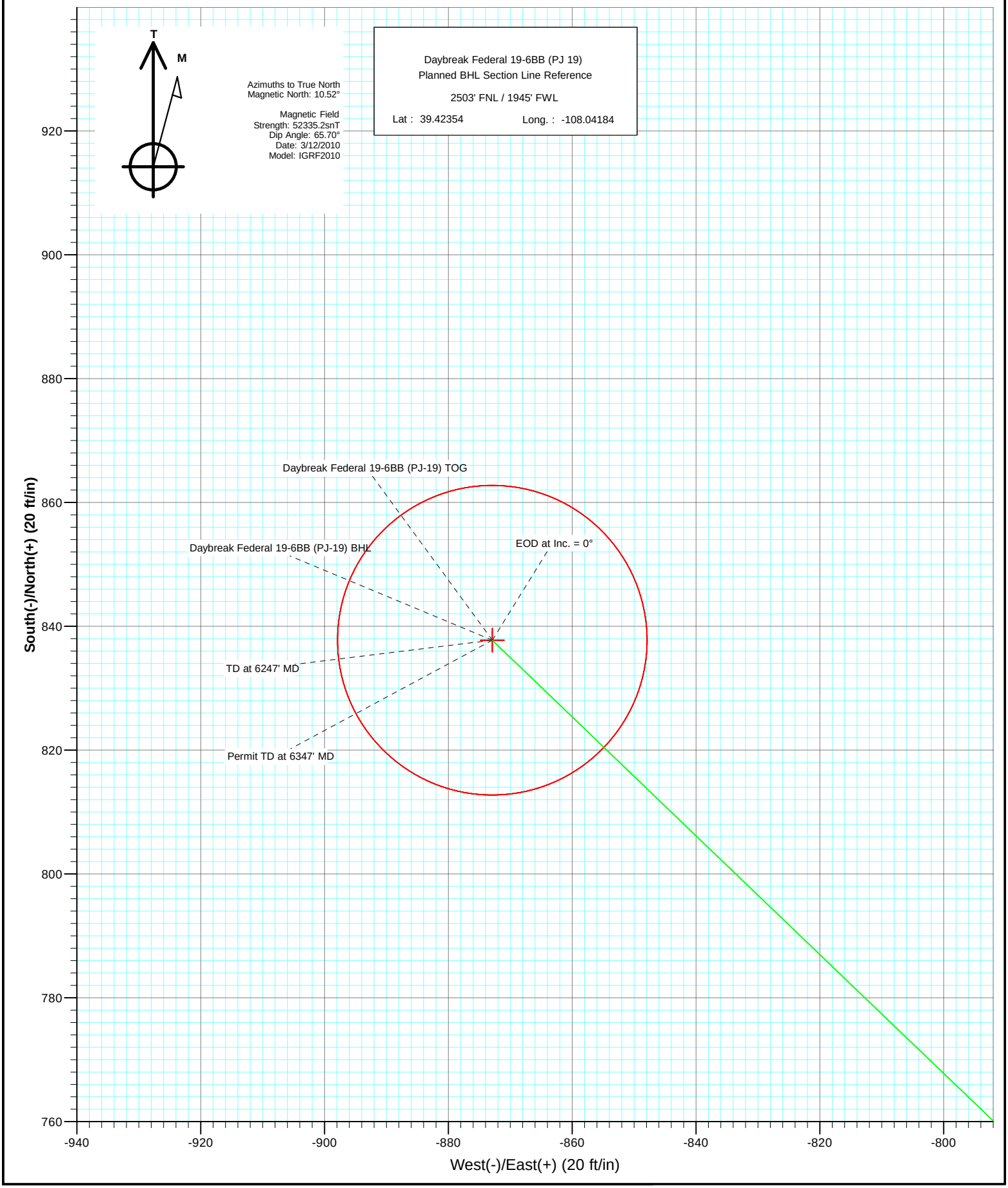
DESIGN DETAILS: Plan #2
Job# 105XXX
KBE @ 5449.0ft (Original Well Elev)

Target	Azimuth	Origin Type	N/S	E/W
Daybreak Federal 19-6BB (PJ-19) BHL	313.82	Slot	0.0	0.0

Project: S. Piceance
Site: NWSE S19-T7S-R95W (PJ-19 Pad)
Well: Daybreak Federal 19-6BB (PJ 19)
Wellbore: DD
Design: Plan #2



Project: S. Piceance
Site: NWSE S19-T7S-R95W (PJ-19 Pad)
Well: Daybreak Federal 19-6BB (PJ 19)
Wellbore: DD
Plan: Plan #2



Cathedral Energy Services

Planning Report

Database:	EDM 5000.1 US Multi Users Db	**Local Co-ordinate Reference:**	Well Daybreak Federal 19-6BB (PJ 19)
Company:	EnCana Oil & Gas (USA) Inc	**TVD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Project:	S. Piceance	**MD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Site:	NWSE S19-T7S-R95W (PJ-19 Pad)	**North Reference:**	True
Well:	Daybreak Federal 19-6BB (PJ 19)	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	DD		
Design:	Plan #2		

Project S. Piceance, Garfield County, CO

Map System:	US State Plane 1983	**System Datum:**	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Central Zone		

Site NWSE S19-T7S-R95W (PJ-19 Pad)

Site Position:		**Northing:**	1,588,373.67 ft	**Latitude:**	39.421340
From:	Lat/Long	**Easting:**	2,283,011.65 ft	**Longitude:**	-108.038360
Position Uncertainty:	0.0 ft	**Slot Radius:**	13.200 in	**Grid Convergence:**	-1.60 °

Well Daybreak Federal 19-6BB (PJ 19)

Well Position	**+N/-S**	0.0 ft	**Northing:**	1,588,340.32 ft	**Latitude:**	39.421240
	+E/-W	0.0 ft	**Easting:**	2,282,900.50 ft	**Longitude:**	-108.038750
Position Uncertainty		0.0 ft	**Wellhead Elevation:**	ft	**Ground Level:**	5,427.0 ft

Wellbore DD

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	3/12/2010	10.52	65.70	52,335

Design Plan #2

Audit Notes:

Version:		**Phase:**	PLAN	**Tie On Depth:**	0.0

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	313.82

Plan Sections

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	
854.6	19.64	313.82	841.9	76.9	-80.1	3.00	3.00	0.00	313.82	
3,628.3	19.64	313.82	3,454.2	722.4	-752.7	0.00	0.00	0.00	0.00	
4,610.2	0.00	0.00	4,417.0	837.8	-872.9	2.00	-2.00	0.00	180.00	Daybreak Federal 19-
6,247.2	0.00	0.00	6,054.0	837.8	-872.9	0.00	0.00	0.00	0.00	Daybreak Federal 19-
6,347.2	0.00	0.00	6,154.0	837.8	-872.9	0.00	0.00	0.00	0.00	

Database:	EDM 5000.1 US Multi Users Db	**Local Co-ordinate Reference:**	Well Daybreak Federal 19-6BB (PJ 19)
Company:	EnCana Oil & Gas (USA) Inc	**TVD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Project:	S. Piceance	**MD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Site:	NWSE S19-T7S-R95W (PJ-19 Pad)	**North Reference:**	True
Well:	Daybreak Federal 19-6BB (PJ 19)	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	DD		
Design:	Plan #2		

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)	Comments / Formations
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	KOP = 200' MD
300.0	3.00	313.82	300.0	1.8	-1.9	2.6	3.00	3.00	
400.0	6.00	313.82	399.6	7.2	-7.5	10.5	3.00	3.00	
500.0	9.00	313.82	498.8	16.3	-17.0	23.5	3.00	3.00	
600.0	12.00	313.82	597.1	28.9	-30.1	41.7	3.00	3.00	
700.0	15.00	313.82	694.3	45.1	-47.0	65.1	3.00	3.00	
800.0	18.00	313.82	790.2	64.7	-67.4	93.5	3.00	3.00	
854.6	19.64	313.82	841.9	76.9	-80.1	111.1	3.00	3.00	EOB at Inc. = 19.64°
900.0	19.64	313.82	884.6	87.5	-91.2	126.3	0.00	0.00	
1,000.0	19.64	313.82	978.8	110.8	-115.4	160.0	0.00	0.00	
1,075.6	19.64	313.82	1,050.0	128.3	-133.7	185.4	0.00	0.00	Surface Casing
1,100.0	19.64	313.82	1,073.0	134.0	-139.6	193.6	0.00	0.00	
1,200.0	19.64	313.82	1,167.2	157.3	-163.9	227.2	0.00	0.00	
1,300.0	19.64	313.82	1,261.4	180.6	-188.1	260.8	0.00	0.00	
1,400.0	19.64	313.82	1,355.5	203.8	-212.4	294.4	0.00	0.00	
1,500.0	19.64	313.82	1,449.7	227.1	-236.6	328.0	0.00	0.00	
1,600.0	19.64	313.82	1,543.9	250.4	-260.9	361.6	0.00	0.00	
1,700.0	19.64	313.82	1,638.1	273.7	-285.1	395.2	0.00	0.00	
1,800.0	19.64	313.82	1,732.3	296.9	-309.4	428.8	0.00	0.00	
1,900.0	19.64	313.82	1,826.5	320.2	-333.6	462.4	0.00	0.00	
2,000.0	19.64	313.82	1,920.6	343.5	-357.9	496.0	0.00	0.00	
2,100.0	19.64	313.82	2,014.8	366.7	-382.1	529.6	0.00	0.00	
2,200.0	19.64	313.82	2,109.0	390.0	-406.4	563.2	0.00	0.00	
2,300.0	19.64	313.82	2,203.2	413.3	-430.6	596.8	0.00	0.00	
2,400.0	19.64	313.82	2,297.4	436.5	-454.9	630.5	0.00	0.00	
2,500.0	19.64	313.82	2,391.6	459.8	-479.1	664.1	0.00	0.00	
2,600.0	19.64	313.82	2,485.7	483.1	-503.4	697.7	0.00	0.00	
2,700.0	19.64	313.82	2,579.9	506.4	-527.6	731.3	0.00	0.00	
2,800.0	19.64	313.82	2,674.1	529.6	-551.8	764.9	0.00	0.00	
2,900.0	19.64	313.82	2,768.3	552.9	-576.1	798.5	0.00	0.00	
3,000.0	19.64	313.82	2,862.5	576.2	-600.3	832.1	0.00	0.00	
3,100.0	19.64	313.82	2,956.7	599.4	-624.6	865.7	0.00	0.00	
3,200.0	19.64	313.82	3,050.8	622.7	-648.8	899.3	0.00	0.00	
3,262.8	19.64	313.82	3,110.0	637.3	-664.1	920.4	0.00	0.00	Mesa Verde
3,300.0	19.64	313.82	3,145.0	646.0	-673.1	932.9	0.00	0.00	
3,400.0	19.64	313.82	3,239.2	669.3	-697.3	966.5	0.00	0.00	
3,500.0	19.64	313.82	3,333.4	692.5	-721.6	1,000.1	0.00	0.00	
3,600.0	19.64	313.82	3,427.6	715.8	-745.8	1,033.7	0.00	0.00	
3,628.3	19.64	313.82	3,454.2	722.4	-752.7	1,043.2	0.00	0.00	Start Drop -2.00
3,700.0	18.20	313.82	3,522.1	738.5	-769.5	1,066.5	2.00	-2.00	
3,800.0	16.20	313.82	3,617.6	759.0	-790.8	1,096.1	2.00	-2.00	
3,900.0	14.20	313.82	3,714.1	777.1	-809.7	1,122.3	2.00	-2.00	
3,962.7	12.95	313.82	3,775.0	787.3	-820.3	1,137.0	2.00	-2.00	Williams Fork Fm
4,000.0	12.20	313.82	3,811.4	792.9	-826.2	1,145.1	2.00	-2.00	
4,100.0	10.20	313.82	3,909.5	806.4	-840.2	1,164.6	2.00	-2.00	
4,200.0	8.20	313.82	4,008.2	817.5	-851.7	1,180.6	2.00	-2.00	
4,284.5	6.51	313.82	4,092.0	825.0	-859.6	1,191.4	2.00	-2.00	TOG (Inc.=6.5°)
4,300.0	6.20	313.82	4,107.4	826.1	-860.8	1,193.1	2.00	-2.00	
4,400.0	4.20	313.82	4,207.0	832.4	-867.3	1,202.2	2.00	-2.00	
4,500.0	2.20	313.82	4,306.8	836.3	-871.4	1,207.8	2.00	-2.00	

Database:	EDM 5000.1 US Multi Users Db	**Local Co-ordinate Reference:**	Well Daybreak Federal 19-6BB (PJ 19)
Company:	EnCana Oil & Gas (USA) Inc	**TVD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Project:	S. Piceance	**MD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Site:	NWSE S19-T7S-R95W (PJ-19 Pad)	**North Reference:**	True
Well:	Daybreak Federal 19-6BB (PJ 19)	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	DD		
Design:	Plan #2		

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)	Comments / Formations
4,600.0	0.20	313.82	4,406.8	837.8	-872.9	1,209.9	2.00	-2.00	
4,610.2	0.00	0.00	4,417.0	837.8	-872.9	1,209.9	2.00	-2.00	EOD at Inc. = 0° - Daybreak Federal 19-6BB (P
4,700.0	0.00	0.00	4,506.8	837.8	-872.9	1,209.9	0.00	0.00	
4,800.0	0.00	0.00	4,606.8	837.8	-872.9	1,209.9	0.00	0.00	
4,900.0	0.00	0.00	4,706.8	837.8	-872.9	1,209.9	0.00	0.00	
5,000.0	0.00	0.00	4,806.8	837.8	-872.9	1,209.9	0.00	0.00	
5,100.0	0.00	0.00	4,906.8	837.8	-872.9	1,209.9	0.00	0.00	
5,200.0	0.00	0.00	5,006.8	837.8	-872.9	1,209.9	0.00	0.00	
5,300.0	0.00	0.00	5,106.8	837.8	-872.9	1,209.9	0.00	0.00	
5,400.0	0.00	0.00	5,206.8	837.8	-872.9	1,209.9	0.00	0.00	
5,500.0	0.00	0.00	5,306.8	837.8	-872.9	1,209.9	0.00	0.00	
5,600.0	0.00	0.00	5,406.8	837.8	-872.9	1,209.9	0.00	0.00	
5,700.0	0.00	0.00	5,506.8	837.8	-872.9	1,209.9	0.00	0.00	
5,777.2	0.00	0.00	5,584.0	837.8	-872.9	1,209.9	0.00	0.00	Coal Ridge
5,800.0	0.00	0.00	5,606.8	837.8	-872.9	1,209.9	0.00	0.00	
5,900.0	0.00	0.00	5,706.8	837.8	-872.9	1,209.9	0.00	0.00	
6,000.0	0.00	0.00	5,806.8	837.8	-872.9	1,209.9	0.00	0.00	
6,100.0	0.00	0.00	5,906.8	837.8	-872.9	1,209.9	0.00	0.00	
6,147.2	0.00	0.00	5,954.0	837.8	-872.9	1,209.9	0.00	0.00	Rollins
6,200.0	0.00	0.00	6,006.8	837.8	-872.9	1,209.9	0.00	0.00	
6,247.2	0.00	0.00	6,054.0	837.8	-872.9	1,209.9	0.00	0.00	TD at 6247' MD - Daybreak Federal 19-6BB (P.
6,300.0	0.00	0.00	6,106.8	837.8	-872.9	1,209.9	0.00	0.00	
6,347.2	0.00	0.00	6,154.0	837.8	-872.9	1,209.9	0.00	0.00	Permit TD at 6347' MD

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
Daybreak Federal 19-6B - plan hits target center - Point	0.00	0.00	4,417.0	837.8	-872.9	1,589,202.15	2,282,051.35	39.423540	-108.041840
Daybreak Federal 19-6B - plan hits target center - Circle (radius 25.0)	0.00	0.00	6,054.0	837.8	-872.9	1,589,202.15	2,282,051.35	39.423540	-108.041840

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
1,075.6	1,050.0	Surface Casing	5.500	6.000

Database:	EDM 5000.1 US Multi Users Db	**Local Co-ordinate Reference:**	Well Daybreak Federal 19-6BB (PJ 19)
Company:	EnCana Oil & Gas (USA) Inc	**TVD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Project:	S. Piceance	**MD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Site:	NWSE S19-T7S-R95W (PJ-19 Pad)	**North Reference:**	True
Well:	Daybreak Federal 19-6BB (PJ 19)	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	DD		
Design:	Plan #2		

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,262.8	3,110.0	Mesa Verde		0.00	
3,962.7	3,775.0	Williams Fork Fm		0.00	
4,284.5	4,092.0	TOG (Inc.=6.5°)		0.00	
5,777.2	5,584.0	Coal Ridge		0.00	
6,147.2	5,954.0	Rollins		0.00	

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
200.0	200.0	0.0	0.0	KOP = 200' MD
854.6	841.9	76.9	-80.1	EOB at Inc. = 19.64°
3,628.3	3,454.2	722.4	-752.7	Start Drop -2.00
4,610.2	4,417.0	837.8	-872.9	EOD at Inc. = 0°
6,247.2	6,054.0	837.8	-872.9	TD at 6247' MD
6,347.2	6,154.0	837.8	-872.9	Permit TD at 6347' MD

EnCana Oil & Gas (USA) Inc

S. Piceance
NWSE S19-T7S-R95W (PJ-19 Pad)
Daybreak Federal 19-6BB (PJ 19)
DD
Plan #2

Anticollision Report

31 March, 2010

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Daybreak Federal 19-6BB (PJ 19)
Project:	S. Piceance	**TVD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Reference Site:	NWSE S19-T7S-R95W (PJ-19 Pad)	**MD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Daybreak Federal 19-6BB (PJ 19)	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	DD	**Database:**	EDM 5000.1 US Multi Users Db
Reference Design:	Plan #2	**Offset TVD Reference:**	Offset Datum

Reference	Plan #2

Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	**Error Model:**	Systematic Ellipse
Depth Range:	0.0 to 99,999.0ft	**Scan Method:**	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 10,000.0ft	**Error Surface:**	Elliptical Conic
Warning Levels Evaluated at:	2.00 **Sigma**		

Survey Tool Program **Date** 3/31/2010

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	6,347.2	Plan #2 (DD)	MWD	Geolink MWD

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Daybreak Federal 19-6BB (PJ 19)
Project:	S. Piceance	**TVD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Reference Site:	NWSE S19-T7S-R95W (PJ-19 Pad)	**MD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Daybreak Federal 19-6BB (PJ 19)	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	DD	**Database:**	EDM 5000.1 US Multi Users Db
Reference Design:	Plan #2	**Offset TVD Reference:**	Offset Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
NWSE S19-T7S-R95W (PJ-19 Pad)						
Daybreak Federal 19-10A (PJ-19) - DD - Plan #1	200.0	200.0	92.2	91.6	148.463	CC, ES
Daybreak Federal 19-10A (PJ-19) - DD - Plan #1	6,347.2	6,229.0	1,322.9	1,289.7	39.862	SF
Daybreak Federal 19-2 (PJ-19) - DD - Plan #1	200.0	200.0	41.0	40.4	65.975	CC, ES
Daybreak Federal 19-2 (PJ-19) - DD - Plan #1	900.0	873.8	153.9	148.6	29.316	SF
Daybreak Federal 19-2D (PJ-19) - DD - Plan #1	395.0	397.6	48.5	47.1	35.411	CC
Daybreak Federal 19-2D (PJ-19) - DD - Plan #1	400.0	402.5	48.5	47.1	34.879	ES
Daybreak Federal 19-2D (PJ-19) - DD - Plan #1	800.0	792.4	93.8	89.7	23.236	SF
Daybreak Federal 19-3BB (PJ-19) - DD - Plan #1	200.0	200.0	32.9	32.3	53.017	CC, ES
Daybreak Federal 19-3BB (PJ-19) - DD - Plan #1	1,600.0	1,589.4	189.4	174.9	13.100	SF
Daybreak Federal 19-6 (PJ-19) - DD - Plan #1	200.0	200.0	14.6	14.0	23.479	CC, ES
Daybreak Federal 19-6 (PJ-19) - DD - Plan #1	1,500.0	1,502.2	108.8	95.5	8.175	SF
Daybreak Federal 19-6C (PJ-19) - DD - Plan #1	200.0	200.0	24.6	23.9	39.536	CC, ES
Daybreak Federal 19-6C (PJ-19) - DD - Plan #1	1,100.0	1,090.4	100.2	91.9	11.985	SF
Daybreak Federal 19-6D (PJ-19) - DD - Plan #1	200.0	200.0	9.2	8.6	14.843	CC, ES
Daybreak Federal 19-6D (PJ-19) - DD - Plan #1	900.0	898.1	34.7	28.8	5.887	SF
Daybreak Federal 19-7 (PJ-19) - DD - Plan #1	200.0	200.0	73.8	73.2	118.773	CC, ES
Daybreak Federal 19-7 (PJ-19) - DD - Plan #1	6,347.2	6,329.6	1,313.2	1,272.2	32.064	SF
Daybreak Federal 19-7BB (PJ-19) - DD - Plan #1	200.0	200.0	59.4	58.8	95.640	CC, ES
Daybreak Federal 19-7BB (PJ-19) - DD - Plan #1	2,200.0	2,054.5	591.2	572.9	32.320	SF
Daybreak Federal 19-7C (PJ-19) - DD - Plan #1	200.0	200.0	65.9	65.3	106.032	CC, ES
Daybreak Federal 19-7C (PJ-19) - DD - Plan #1	6,347.2	6,500.3	1,412.8	1,367.0	30.882	SF
Daybreak Federal 19-8 (PJ-19) - DD - Plan #1	200.0	200.0	110.7	110.1	178.158	CC, ES
Daybreak Federal 19-8 (PJ-19) - DD - Plan #1	6,347.2	6,836.2	2,746.6	2,702.0	61.579	SF
Daybreak Federal 19-8BB (PJ-19) - DD - Plan #1	200.0	200.0	116.0	115.4	186.760	CC, ES
Daybreak Federal 19-8BB (PJ-19) - DD - Plan #1	6,347.2	6,611.3	2,642.7	2,604.4	68.928	SF
Daybreak Federal 19-8C (PJ-19 Pad) - DD - Plan #1	200.0	200.0	83.1	82.5	133.758	CC, ES
Daybreak Federal 19-8C (PJ-19 Pad) - DD - Plan #1	1,300.0	1,187.4	429.5	421.6	54.457	SF
Daybreak Federal 19-8D (PJ-19) - DD - Plan #1	200.0	200.0	101.5	100.9	163.344	CC, ES
Daybreak Federal 19-8D (PJ-19) - DD - Plan #1	6,347.2	6,714.8	2,666.0	2,624.2	63.775	SF
SWSW Sec19-T7S-R95W (PM-19)						
Federal 19-11 (PM-19) - DD - DD	5,173.9	5,482.5	666.9	618.5	13.798	CC
Federal 19-11 (PM-19) - DD - DD	5,200.0	5,507.1	666.9	618.5	13.788	ES
Federal 19-11 (PM-19) - DD - DD	5,800.0	6,097.8	673.2	624.0	13.676	SF
Federal 19-11 (PM-19) - DD - Plan #2	3,813.8	4,261.9	660.7	617.7	15.350	CC
Federal 19-11 (PM-19) - DD - Plan #2	3,900.0	4,326.9	661.6	617.6	15.015	ES
Federal 19-11 (PM-19) - DD - Plan #2	6,347.2	6,679.2	690.7	640.4	13.731	SF

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Daybreak Federal 19-6BB (PJ 19)
Project:	S. Piceance	**TVD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Reference Site:	NWSE S19-T7S-R95W (PJ-19 Pad)	**MD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Daybreak Federal 19-6BB (PJ 19)	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	DD	**Database:**	EDM 5000.1 US Multi Users Db
Reference Design:	Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design NWSE S19-T7S-R95W (PJ-19 Pad) - Daybreak Federal 19-10A (PJ-19) - DD - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	66.74	36.4	84.8	92.2				
100.0	100.0	100.0	100.0	0.1	0.1	66.74	36.4	84.8	92.2	92.0	0.27	338.800	
200.0	200.0	200.0	200.0	0.3	0.3	66.74	36.4	84.8	92.2	91.6	0.62	148.463	CC, ES
300.0	300.0	296.2	296.2	0.5	0.5	113.34	38.5	85.9	95.3	94.3	0.97	97.788	
400.0	399.6	391.9	391.6	0.7	0.7	114.43	44.9	89.4	104.3	102.9	1.37	76.066	
500.0	498.8	486.5	485.4	1.0	1.0	115.83	55.2	95.1	119.4	117.6	1.84	64.757	
600.0	597.1	579.5	577.0	1.4	1.3	117.20	69.3	102.9	140.5	138.1	2.41	58.184	
700.0	694.3	674.3	669.7	1.8	1.7	118.70	86.7	112.5	166.7	163.6	3.07	54.223	
800.0	790.2	769.5	762.8	2.4	2.0	120.86	104.4	122.3	195.7	191.9	3.81	51.379	
854.6	841.9	821.0	813.1	2.7	2.2	122.18	113.9	127.5	212.9	208.7	4.23	50.347	
900.0	884.6	863.6	854.7	3.0	2.4	123.61	121.8	131.9	227.7	223.1	4.58	49.683	
1,000.0	978.8	957.5	946.5	3.6	2.8	126.18	139.2	141.5	260.5	255.2	5.36	48.617	
1,100.0	1,073.0	1,051.4	1,038.2	4.2	3.2	128.18	156.7	151.1	293.7	287.6	6.13	47.908	
1,200.0	1,167.2	1,145.3	1,130.0	4.8	3.5	129.77	174.1	160.7	327.2	320.3	6.90	47.418	
1,300.0	1,261.4	1,239.1	1,221.7	5.4	3.9	131.07	191.5	170.4	360.8	353.2	7.67	47.070	
1,400.0	1,355.5	1,333.0	1,313.5	6.0	4.3	132.15	208.9	180.0	394.6	386.2	8.43	46.816	
1,500.0	1,449.7	1,426.9	1,405.2	6.7	4.7	133.05	226.3	189.6	428.5	419.3	9.19	46.627	
1,600.0	1,543.9	1,520.8	1,497.0	7.3	5.1	133.83	243.7	199.2	462.5	452.6	9.95	46.484	
1,700.0	1,638.1	1,614.7	1,588.7	7.9	5.5	134.50	261.1	208.8	496.6	485.8	10.71	46.373	
1,800.0	1,732.3	1,708.5	1,680.5	8.5	5.8	135.08	278.5	218.4	530.6	519.2	11.46	46.288	
1,900.0	1,826.5	1,802.4	1,772.2	9.2	6.2	135.60	295.9	228.0	564.8	552.6	12.22	46.220	
2,000.0	1,920.6	1,896.3	1,864.0	9.8	6.6	136.05	313.4	237.6	599.0	586.0	12.97	46.167	
2,100.0	2,014.8	1,990.2	1,955.7	10.4	7.0	136.46	330.8	247.3	633.2	619.4	13.73	46.124	
2,200.0	2,109.0	2,084.1	2,047.5	11.0	7.4	136.82	348.2	256.9	667.4	652.9	14.48	46.090	
2,300.0	2,203.2	2,177.9	2,139.2	11.7	7.8	137.15	365.6	266.5	701.6	686.4	15.23	46.062	
2,400.0	2,297.4	2,271.8	2,231.0	12.3	8.1	137.45	383.0	276.1	735.9	719.9	15.98	46.040	
2,500.0	2,391.6	2,365.7	2,322.7	12.9	8.5	137.72	400.4	285.7	770.2	753.5	16.74	46.022	
2,600.0	2,485.7	2,459.6	2,414.5	13.6	8.9	137.97	417.8	295.3	804.5	787.0	17.49	46.007	
2,700.0	2,579.9	2,553.5	2,506.2	14.2	9.3	138.20	435.2	304.9	838.8	820.6	18.24	45.995	
2,800.0	2,674.1	2,647.3	2,597.9	14.8	9.7	138.41	452.6	314.5	873.1	854.1	18.99	45.986	
2,900.0	2,768.3	2,741.2	2,689.7	15.4	10.1	138.60	470.0	324.2	907.5	887.7	19.74	45.978	
3,000.0	2,862.5	2,835.1	2,781.4	16.1	10.5	138.78	487.5	333.8	941.8	921.3	20.49	45.972	
3,100.0	2,956.7	2,929.0	2,873.2	16.7	10.8	138.95	504.9	343.4	976.1	954.9	21.24	45.967	
3,200.0	3,050.8	3,022.8	2,964.9	17.3	11.2	139.11	522.3	353.0	1,010.5	988.5	21.98	45.964	
3,300.0	3,145.0	3,116.7	3,056.7	17.9	11.6	139.25	539.7	362.6	1,044.9	1,022.1	22.73	45.961	
3,400.0	3,239.2	3,210.6	3,148.4	18.6	12.0	139.39	557.1	372.2	1,079.2	1,055.7	23.48	45.959	
3,500.0	3,333.4	3,304.5	3,240.2	19.2	12.4	139.52	574.5	381.8	1,113.6	1,089.4	24.23	45.957	
3,600.0	3,427.6	3,398.4	3,331.9	19.8	12.8	139.64	591.9	391.4	1,148.0	1,123.0	24.98	45.956	
3,628.3	3,454.2	3,424.9	3,357.9	20.0	12.9	139.67	596.8	394.2	1,157.7	1,132.5	25.19	45.956	
3,700.0	3,522.1	3,492.5	3,423.9	20.4	13.1	140.05	609.4	401.1	1,181.7	1,156.0	25.74	45.916	
3,800.0	3,617.6	3,590.4	3,519.7	21.0	13.5	140.45	627.5	411.1	1,213.0	1,186.5	26.49	45.797	
3,900.0	3,714.1	3,705.9	3,633.1	21.4	13.9	140.79	646.3	421.5	1,240.7	1,213.5	27.20	45.612	
4,000.0	3,811.4	3,823.2	3,749.2	21.8	14.3	141.15	661.3	429.7	1,264.3	1,236.5	27.81	45.467	
4,100.0	3,909.5	3,942.0	3,867.2	22.2	14.5	141.53	672.2	435.8	1,283.7	1,255.4	28.30	45.356	
4,200.0	4,008.2	4,061.7	3,986.7	22.5	14.7	141.93	678.8	439.4	1,298.8	1,270.1	28.68	45.280	
4,300.0	4,107.4	4,182.1	4,107.1	22.7	14.8	142.37	681.1	440.7	1,309.5	1,280.6	28.95	45.230	
4,400.0	4,207.0	4,282.0	4,207.0	22.9	14.9	142.70	681.1	440.7	1,316.8	1,287.6	29.16	45.150	
4,500.0	4,306.8	4,381.9	4,306.8	23.0	15.0	142.90	681.1	440.7	1,321.2	1,291.9	29.35	45.009	
4,600.0	4,406.8	4,481.8	4,406.8	23.1	15.1	142.98	681.1	440.7	1,322.9	1,293.4	29.53	44.805	
4,610.2	4,417.0	4,492.0	4,417.0	23.1	15.1	96.80	681.1	440.7	1,322.9	1,293.4	29.54	44.779	
4,700.0	4,506.8	4,581.8	4,506.8	23.1	15.2	96.80	681.1	440.7	1,322.9	1,293.2	29.71	44.524	
4,800.0	4,606.8	4,681.8	4,606.8	23.2	15.3	96.80	681.1	440.7	1,322.9	1,293.0	29.90	44.240	

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

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Daybreak Federal 19-6BB (PJ 19)
Project:	S. Piceance	**TVD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Reference Site:	NWSE S19-T7S-R95W (PJ-19 Pad)	**MD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Daybreak Federal 19-6BB (PJ 19)	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	DD	**Database:**	EDM 5000.1 US Multi Users Db
Reference Design:	Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design NWSE S19-T7S-R95W (PJ-19 Pad) - Daybreak Federal 19-10A (PJ-19) - DD - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
4,900.0	4,706.8	4,781.8	4,706.8	23.3	15.4	96.80	681.1	440.7	1,322.9	1,292.8	30.10	43.955	
5,000.0	4,806.8	4,881.8	4,806.8	23.3	15.5	96.80	681.1	440.7	1,322.9	1,292.6	30.29	43.669	
5,100.0	4,906.8	4,981.8	4,906.8	23.4	15.6	96.80	681.1	440.7	1,322.9	1,292.4	30.49	43.384	
5,200.0	5,006.8	5,081.8	5,006.8	23.4	15.7	96.80	681.1	440.7	1,322.9	1,292.2	30.69	43.098	
5,300.0	5,106.8	5,181.8	5,106.8	23.5	15.8	96.80	681.1	440.7	1,322.9	1,292.0	30.90	42.813	
5,400.0	5,206.8	5,281.8	5,206.8	23.6	15.9	96.80	681.1	440.7	1,322.9	1,291.8	31.11	42.528	
5,500.0	5,306.8	5,381.8	5,306.8	23.7	16.0	96.80	681.1	440.7	1,322.9	1,291.6	31.32	42.243	
5,600.0	5,406.8	5,481.8	5,406.8	23.7	16.1	96.80	681.1	440.7	1,322.9	1,291.4	31.53	41.959	
5,700.0	5,506.8	5,581.8	5,506.8	23.8	16.2	96.80	681.1	440.7	1,322.9	1,291.2	31.74	41.675	
5,800.0	5,606.8	5,681.8	5,606.8	23.9	16.3	96.80	681.1	440.7	1,322.9	1,290.9	31.96	41.392	
5,900.0	5,706.8	5,781.8	5,706.8	23.9	16.4	96.80	681.1	440.7	1,322.9	1,290.7	32.18	41.110	
6,000.0	5,806.8	5,881.8	5,806.8	24.0	16.5	96.80	681.1	440.7	1,322.9	1,290.5	32.40	40.829	
6,100.0	5,906.8	5,981.8	5,906.8	24.1	16.6	96.80	681.1	440.7	1,322.9	1,290.3	32.62	40.549	
6,200.0	6,006.8	6,081.8	6,006.8	24.2	16.7	96.80	681.1	440.7	1,322.9	1,290.0	32.85	40.270	
6,247.2	6,054.0	6,129.0	6,054.0	24.2	16.8	96.80	681.1	440.7	1,322.9	1,289.9	32.96	40.139	
6,300.0	6,106.8	6,181.8	6,106.8	24.3	16.8	96.80	681.1	440.7	1,322.9	1,289.8	33.08	39.992	
6,347.2	6,154.0	6,229.0	6,154.0	24.3	16.9	96.80	681.1	440.7	1,322.9	1,289.7	33.19	39.862	SF

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Daybreak Federal 19-6BB (PJ 19)
Project:	S. Piceance	**TVD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Reference Site:	NWSE S19-T7S-R95W (PJ-19 Pad)	**MD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Daybreak Federal 19-6BB (PJ 19)	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	DD	**Database:**	EDM 5000.1 US Multi Users Db
Reference Design:	Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design NWSE S19-T7S-R95W (PJ-19 Pad) - Daybreak Federal 19-2 (PJ-19) - DD - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	63.62	18.2	36.7	41.0				
100.0	100.0	100.0	100.0	0.1	0.1	63.62	18.2	36.7	41.0	40.7	0.27	150.558	
200.0	200.0	200.0	200.0	0.3	0.3	63.62	18.2	36.7	41.0	40.4	0.62	65.975	CC, ES
300.0	300.0	298.7	298.7	0.5	0.5	110.17	20.7	37.1	43.3	42.4	0.98	44.162	
400.0	399.6	397.2	396.8	0.7	0.7	111.04	28.3	38.2	50.4	49.0	1.40	36.005	
500.0	498.8	494.9	493.8	1.0	1.0	112.00	40.7	39.9	62.1	60.2	1.92	32.421	
600.0	597.1	591.7	589.0	1.4	1.3	112.78	57.9	42.3	78.4	75.9	2.55	30.706	
700.0	694.3	687.3	682.1	1.8	1.7	113.28	79.4	45.4	99.3	96.0	3.33	29.844	
800.0	790.2	781.4	772.5	2.4	2.2	113.53	105.2	49.0	124.6	120.3	4.23	29.413	
854.6	841.9	832.1	820.6	2.7	2.5	113.57	120.8	51.3	140.2	135.4	4.78	29.327	
900.0	884.6	873.8	860.0	3.0	2.8	113.77	134.7	53.2	153.9	148.6	5.25	29.316	SF
1,000.0	978.8	964.9	944.6	3.6	3.4	113.19	167.8	57.9	185.7	179.3	6.33	29.326	
1,100.0	1,073.0	1,054.2	1,026.0	4.2	4.1	111.74	204.2	63.1	219.6	212.1	7.46	29.446	
1,200.0	1,167.2	1,144.4	1,106.7	4.8	4.8	109.89	244.3	68.7	255.6	247.0	8.61	29.698	
1,300.0	1,261.4	1,237.3	1,189.4	5.4	5.5	108.35	286.0	74.6	292.2	282.4	9.77	29.904	
1,400.0	1,355.5	1,330.1	1,272.1	6.0	6.3	107.15	327.8	80.6	328.8	317.9	10.93	30.088	
1,500.0	1,449.7	1,420.7	1,352.7	6.7	7.0	106.20	368.6	86.3	365.7	353.6	12.08	30.261	
1,600.0	1,543.9	1,500.0	1,422.2	7.3	7.7	105.20	406.4	91.7	404.3	391.1	13.19	30.646	
1,700.0	1,638.1	1,583.1	1,493.3	7.9	8.5	103.92	449.1	97.7	445.4	431.0	14.35	31.039	
1,800.0	1,732.3	1,660.7	1,557.9	8.5	9.3	102.57	491.7	103.8	488.9	473.4	15.47	31.597	
1,900.0	1,826.5	1,735.7	1,618.6	9.2	10.1	101.17	535.3	109.9	535.0	518.4	16.58	32.268	
2,000.0	1,920.6	1,800.0	1,669.2	9.8	10.8	99.92	574.5	115.5	583.7	566.1	17.61	33.148	
2,100.0	2,014.8	1,877.6	1,728.5	10.4	11.7	98.39	624.1	122.5	634.7	616.0	18.72	33.896	
2,200.0	2,109.0	1,944.5	1,777.9	11.0	12.5	97.05	668.6	128.8	688.2	668.5	19.75	34.841	
2,300.0	2,203.2	2,021.4	1,833.5	11.7	13.5	95.58	721.4	136.3	743.6	722.8	20.82	35.715	
2,400.0	2,297.4	2,102.9	1,892.2	12.3	14.5	94.22	777.3	144.2	799.5	777.6	21.90	36.504	
2,500.0	2,391.6	2,184.4	1,951.0	12.9	15.5	93.03	833.2	152.1	855.6	832.6	22.97	37.249	
2,600.0	2,485.7	2,265.9	2,009.7	13.6	16.5	91.98	889.2	160.1	911.9	887.9	24.03	37.951	
2,700.0	2,579.9	2,347.4	2,068.5	14.2	17.5	91.05	945.1	168.0	968.4	943.4	25.08	38.612	
2,800.0	2,674.1	2,428.9	2,127.2	14.8	18.5	90.22	1,001.0	175.9	1,025.1	999.0	26.13	39.234	
2,900.0	2,768.3	2,510.4	2,186.0	15.4	19.5	89.48	1,056.9	183.8	1,082.0	1,054.8	27.17	39.820	
3,000.0	2,862.5	2,591.9	2,244.7	16.1	20.5	88.81	1,112.9	191.7	1,138.9	1,110.7	28.21	40.372	
3,100.0	2,956.7	2,673.4	2,303.5	16.7	21.4	88.21	1,168.8	199.7	1,195.9	1,166.7	29.25	40.892	
3,200.0	3,050.8	2,754.9	2,362.2	17.3	22.4	87.65	1,224.7	207.6	1,253.0	1,222.8	30.28	41.384	
3,300.0	3,145.0	2,836.5	2,421.0	17.9	23.4	87.15	1,280.7	215.5	1,310.2	1,278.9	31.31	41.848	
3,400.0	3,239.2	2,918.0	2,479.7	18.6	24.4	86.69	1,336.6	223.4	1,367.5	1,335.1	32.34	42.287	
3,500.0	3,333.4	2,999.5	2,538.5	19.2	25.4	86.26	1,392.5	231.4	1,424.8	1,391.4	33.37	42.702	
3,600.0	3,427.6	3,081.0	2,597.2	19.8	26.4	85.87	1,448.5	239.3	1,482.1	1,447.7	34.39	43.097	
3,628.3	3,454.2	3,104.0	2,613.9	20.0	26.7	85.76	1,464.3	241.5	1,498.4	1,463.7	34.68	43.204	
3,700.0	3,522.1	3,162.3	2,655.9	20.4	27.4	86.47	1,504.3	247.2	1,539.6	1,503.8	35.73	43.083	
3,800.0	3,617.6	3,243.2	2,714.2	21.0	28.4	87.36	1,559.8	255.0	1,597.3	1,560.1	37.13	43.017	
3,900.0	3,714.1	3,323.4	2,772.0	21.4	29.4	88.16	1,614.8	262.8	1,655.2	1,616.7	38.45	43.047	
4,000.0	3,811.4	3,402.8	2,829.2	21.8	30.4	88.87	1,669.3	270.5	1,713.4	1,673.7	39.70	43.163	
4,100.0	3,909.5	3,481.4	2,885.9	22.2	31.3	89.52	1,723.2	278.2	1,771.8	1,730.9	40.87	43.356	
4,200.0	4,008.2	3,559.0	2,941.8	22.5	32.3	90.11	1,776.5	285.7	1,830.5	1,788.6	41.96	43.621	
4,300.0	4,107.4	3,635.6	2,997.0	22.7	33.2	90.65	1,829.1	293.2	1,889.6	1,846.6	42.99	43.953	
4,400.0	4,207.0	3,711.0	3,051.4	22.9	34.2	91.16	1,880.9	300.5	1,949.0	1,905.0	43.95	44.346	
4,500.0	4,306.8	3,785.3	3,104.9	23.0	35.1	91.63	1,931.8	307.7	2,008.7	1,963.9	44.84	44.797	
4,600.0	4,406.8	3,858.2	3,157.5	23.1	36.0	92.09	1,981.8	314.8	2,068.9	2,023.2	45.67	45.304	
4,610.2	4,417.0	3,865.5	3,162.8	23.1	36.1	45.96	1,986.9	315.5	2,075.1	2,029.3	45.75	45.356	
4,700.0	4,506.8	5,355.2	4,506.8	23.1	45.4	36.77	2,531.4	392.6	2,114.3	2,068.2	46.10	45.863	
4,800.0	4,606.8	5,455.2	4,606.8	23.2	45.5	36.77	2,531.4	392.6	2,114.3	2,068.0	46.23	45.731	

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

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Daybreak Federal 19-6BB (PJ 19)
Project:	S. Piceance	**TVD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Reference Site:	NWSE S19-T7S-R95W (PJ-19 Pad)	**MD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Daybreak Federal 19-6BB (PJ 19)	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	DD	**Database:**	EDM 5000.1 US Multi Users Db
Reference Design:	Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design NWSE S19-T7S-R95W (PJ-19 Pad) - Daybreak Federal 19-2 (PJ-19) - DD - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
4,900.0	4,706.8	5,555.2	4,706.8	23.3	45.5	36.77	2,531.4	392.6	2,114.3	2,067.9	46.37	45.597	
5,000.0	4,806.8	5,655.2	4,806.8	23.3	45.5	36.77	2,531.4	392.6	2,114.3	2,067.8	46.51	45.462	
5,100.0	4,906.8	5,755.2	4,906.8	23.4	45.6	36.77	2,531.4	392.6	2,114.3	2,067.6	46.65	45.325	
5,200.0	5,006.8	5,855.2	5,006.8	23.4	45.6	36.77	2,531.4	392.6	2,114.3	2,067.5	46.79	45.187	
5,300.0	5,106.8	5,955.2	5,106.8	23.5	45.6	36.77	2,531.4	392.6	2,114.3	2,067.3	46.93	45.048	
5,400.0	5,206.8	6,055.2	5,206.8	23.6	45.7	36.77	2,531.4	392.6	2,114.3	2,067.2	47.08	44.908	
5,500.0	5,306.8	6,155.2	5,306.8	23.7	45.7	36.77	2,531.4	392.6	2,114.3	2,067.0	47.23	44.767	
5,600.0	5,406.8	6,255.2	5,406.8	23.7	45.8	36.77	2,531.4	392.6	2,114.3	2,066.9	47.38	44.624	
5,700.0	5,506.8	6,355.2	5,506.8	23.8	45.8	36.77	2,531.4	392.6	2,114.3	2,066.7	47.53	44.481	
5,800.0	5,606.8	6,455.2	5,606.8	23.9	45.9	36.77	2,531.4	392.6	2,114.3	2,066.6	47.69	44.336	
5,900.0	5,706.8	6,555.2	5,706.8	23.9	45.9	36.77	2,531.4	392.6	2,114.3	2,066.4	47.84	44.191	
6,000.0	5,806.8	6,655.2	5,806.8	24.0	45.9	36.77	2,531.4	392.6	2,114.3	2,066.3	48.00	44.044	
6,100.0	5,906.8	6,755.2	5,906.8	24.1	46.0	36.77	2,531.4	392.6	2,114.3	2,066.1	48.16	43.897	
6,200.0	6,006.8	6,855.2	6,006.8	24.2	46.0	36.77	2,531.4	392.6	2,114.3	2,065.9	48.33	43.749	
6,247.2	6,054.0	6,902.3	6,054.0	24.2	46.0	36.77	2,531.4	392.6	2,114.3	2,065.9	48.40	43.679	
6,300.0	6,106.8	6,955.2	6,106.8	24.3	46.1	36.77	2,531.4	392.6	2,114.3	2,065.8	48.49	43.600	
6,347.2	6,154.0	7,002.3	6,154.0	24.3	46.1	36.77	2,531.4	392.6	2,114.3	2,065.7	48.57	43.530	

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Daybreak Federal 19-6BB (PJ 19)
Project:	S. Piceance	**TVD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Reference Site:	NWSE S19-T7S-R95W (PJ-19 Pad)	**MD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Daybreak Federal 19-6BB (PJ 19)	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	DD	**Database:**	EDM 5000.1 US Multi Users Db
Reference Design:	Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design NWSE S19-T7S-R95W (PJ-19 Pad) - Daybreak Federal 19-2D (PJ-19) - DD - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	73.12	14.6	48.0	50.2				
100.0	100.0	100.0	100.0	0.1	0.1	73.12	14.6	48.0	50.2	49.9	0.27	184.329	
200.0	200.0	200.0	200.0	0.3	0.3	73.12	14.6	48.0	50.2	49.6	0.62	80.774	
300.0	300.0	301.8	301.8	0.5	0.5	119.71	15.9	45.7	49.6	48.7	0.98	50.420	
395.0	394.7	397.6	397.2	0.7	0.7	120.85	19.8	39.5	48.5	47.1	1.37	35.411	CC
400.0	399.6	402.5	402.1	0.7	0.7	120.92	20.1	39.1	48.5	47.1	1.39	34.879	ES
500.0	498.8	501.0	500.1	1.0	0.9	122.29	28.5	33.1	51.5	49.7	1.88	27.490	
600.0	597.1	599.1	597.2	1.4	1.2	123.31	41.7	28.7	60.2	57.7	2.47	24.380	
700.0	694.3	696.4	692.8	1.8	1.6	123.83	59.4	25.9	74.3	71.1	3.19	23.315	
800.0	790.2	792.4	786.2	2.4	2.0	123.91	81.4	24.7	93.8	89.7	4.04	23.236	SF
854.6	841.9	844.1	836.1	2.7	2.2	123.82	95.1	24.8	106.6	102.1	4.55	23.421	
900.0	884.6	886.8	877.0	3.0	2.4	123.78	107.4	25.1	118.2	113.2	4.99	23.674	
1,000.0	978.8	979.8	965.1	3.6	3.0	122.53	137.0	26.9	145.4	139.4	6.05	24.045	
1,100.0	1,073.0	1,071.1	1,050.1	4.2	3.6	120.38	170.1	30.2	175.1	167.9	7.18	24.385	
1,200.0	1,167.2	1,164.1	1,135.5	4.8	4.2	117.99	206.7	34.6	207.0	198.6	8.35	24.777	
1,300.0	1,261.4	1,258.5	1,222.1	5.4	4.8	116.16	244.1	39.1	239.2	229.7	9.52	25.113	
1,400.0	1,355.5	1,352.9	1,308.7	6.0	5.5	114.76	281.5	43.6	271.6	260.9	10.68	25.423	
1,500.0	1,449.7	1,443.0	1,391.1	6.7	6.2	113.63	317.6	48.1	304.4	292.6	11.85	25.682	
1,600.0	1,543.9	1,527.2	1,466.8	7.3	6.8	112.30	354.1	53.3	339.7	326.7	13.01	26.122	
1,700.0	1,638.1	1,609.1	1,538.7	7.9	7.6	110.80	392.6	59.5	377.8	363.7	14.17	26.672	
1,800.0	1,732.3	1,688.3	1,606.8	8.5	8.3	109.21	432.6	66.5	418.8	403.5	15.33	27.322	
1,900.0	1,826.5	1,764.9	1,670.9	9.2	9.0	107.60	473.7	74.2	462.7	446.2	16.48	28.072	
2,000.0	1,920.6	1,838.6	1,731.0	9.8	9.8	106.03	515.6	82.5	509.5	491.8	17.61	28.923	
2,100.0	2,014.8	1,909.6	1,787.3	10.4	10.6	104.52	557.9	91.3	559.0	540.3	18.71	29.872	
2,200.0	2,109.0	1,990.8	1,850.5	11.0	11.5	102.89	607.8	102.0	610.5	590.7	19.86	30.736	
2,300.0	2,203.2	2,075.1	1,916.0	11.7	12.4	101.45	659.7	113.1	662.5	641.5	21.02	31.522	
2,400.0	2,297.4	2,159.5	1,981.5	12.3	13.3	100.21	711.6	124.2	714.7	692.5	22.15	32.261	
2,500.0	2,391.6	2,243.8	2,047.1	12.9	14.3	99.14	763.5	135.3	767.1	743.8	23.28	32.954	
2,600.0	2,485.7	2,328.1	2,112.6	13.6	15.2	98.21	815.4	146.4	819.7	795.3	24.39	33.603	
2,700.0	2,579.9	2,412.5	2,178.2	14.2	16.1	97.38	867.2	157.6	872.4	846.9	25.50	34.210	
2,800.0	2,674.1	2,496.8	2,243.7	14.8	17.1	96.65	919.1	168.7	925.2	898.6	26.60	34.778	
2,900.0	2,768.3	2,581.1	2,309.3	15.4	18.0	96.00	971.0	179.8	978.2	950.5	27.70	35.311	
3,000.0	2,862.5	2,665.4	2,374.8	16.1	19.0	95.41	1,022.9	190.9	1,031.2	1,002.4	28.80	35.811	
3,100.0	2,956.7	2,749.8	2,440.4	16.7	19.9	94.88	1,074.8	202.0	1,084.3	1,054.4	29.89	36.280	
3,200.0	3,050.8	2,834.1	2,505.9	17.3	20.8	94.40	1,126.7	213.1	1,137.5	1,106.5	30.97	36.722	
3,300.0	3,145.0	2,918.4	2,571.5	17.9	21.8	93.96	1,178.5	224.2	1,190.7	1,158.6	32.06	37.138	
3,400.0	3,239.2	3,002.8	2,637.0	18.6	22.7	93.56	1,230.4	235.3	1,243.9	1,210.8	33.14	37.531	
3,500.0	3,333.4	3,087.1	2,702.6	19.2	23.7	93.19	1,282.3	246.4	1,297.2	1,263.0	34.23	37.902	
3,600.0	3,427.6	3,171.4	2,768.1	19.8	24.6	92.85	1,334.2	257.5	1,350.5	1,315.2	35.31	38.252	
3,628.3	3,454.2	3,195.3	2,786.6	20.0	24.9	92.76	1,348.9	260.6	1,365.6	1,330.0	35.61	38.348	
3,700.0	3,522.1	3,255.7	2,833.6	20.4	25.5	93.40	1,386.0	268.6	1,403.9	1,367.3	36.61	38.345	
3,800.0	3,617.6	3,339.7	2,898.9	21.0	26.5	94.17	1,437.7	279.7	1,457.1	1,419.2	37.93	38.417	
3,900.0	3,714.1	3,423.4	2,964.0	21.4	27.4	94.82	1,489.2	290.7	1,510.2	1,471.0	39.16	38.560	
4,000.0	3,811.4	3,506.6	3,028.7	21.8	28.3	95.36	1,540.4	301.6	1,563.2	1,522.8	40.32	38.769	
4,100.0	3,909.5	3,589.3	3,092.9	22.2	29.3	95.82	1,591.3	312.5	1,616.1	1,574.7	41.40	39.040	
4,200.0	4,008.2	3,671.3	3,156.7	22.5	30.2	96.19	1,641.8	323.3	1,669.0	1,626.6	42.39	39.370	
4,300.0	4,107.4	3,752.6	3,219.8	22.7	31.1	96.49	1,691.8	334.0	1,721.8	1,678.5	43.31	39.757	
4,400.0	4,207.0	3,833.0	3,282.3	22.9	32.0	96.74	1,741.2	344.6	1,774.8	1,730.6	44.15	40.200	
4,500.0	4,306.8	4,187.2	3,575.6	23.0	35.4	94.07	1,934.5	386.0	1,822.6	1,777.2	45.33	40.203	
4,600.0	4,406.8	4,673.7	4,027.4	23.1	38.4	91.72	2,107.5	423.0	1,853.5	1,807.4	46.13	40.177	
4,610.2	4,417.0	4,728.0	4,080.2	23.1	38.6	45.37	2,119.6	425.6	1,855.5	1,809.3	46.19	40.174	
4,700.0	4,506.8	5,157.8	4,506.8	23.1	39.4	44.61	2,163.6	435.0	1,862.4	1,815.9	46.44	40.101	

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

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Daybreak Federal 19-6BB (PJ 19)
Project:	S. Piceance	**TVD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Reference Site:	NWSE S19-T7S-R95W (PJ-19 Pad)	**MD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Daybreak Federal 19-6BB (PJ 19)	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	DD	**Database:**	EDM 5000.1 US Multi Users Db
Reference Design:	Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design NWSE S19-T7S-R95W (PJ-19 Pad) - Daybreak Federal 19-2D (PJ-19) - DD - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
4,800.0	4,606.8	5,257.8	4,606.8	23.2	39.4	44.61	2,163.6	435.0	1,862.4	1,815.8	46.57	39.989	
4,900.0	4,706.8	5,357.8	4,706.8	23.3	39.4	44.61	2,163.6	435.0	1,862.4	1,815.7	46.70	39.876	
5,000.0	4,806.8	5,457.8	4,806.8	23.3	39.5	44.61	2,163.6	435.0	1,862.4	1,815.5	46.84	39.761	
5,100.0	4,906.8	5,557.8	4,906.8	23.4	39.5	44.61	2,163.6	435.0	1,862.4	1,815.4	46.98	39.646	
5,200.0	5,006.8	5,657.8	5,006.8	23.4	39.6	44.61	2,163.6	435.0	1,862.4	1,815.2	47.11	39.529	
5,300.0	5,106.8	5,757.8	5,106.8	23.5	39.6	44.61	2,163.6	435.0	1,862.4	1,815.1	47.25	39.411	
5,400.0	5,206.8	5,857.8	5,206.8	23.6	39.7	44.61	2,163.6	435.0	1,862.4	1,815.0	47.40	39.292	
5,500.0	5,306.8	5,957.8	5,306.8	23.7	39.7	44.61	2,163.6	435.0	1,862.4	1,814.8	47.54	39.172	
5,600.0	5,406.8	6,057.8	5,406.8	23.7	39.7	44.61	2,163.6	435.0	1,862.4	1,814.7	47.69	39.051	
5,700.0	5,506.8	6,157.8	5,506.8	23.8	39.8	44.61	2,163.6	435.0	1,862.4	1,814.5	47.84	38.929	
5,800.0	5,606.8	6,257.8	5,606.8	23.9	39.8	44.61	2,163.6	435.0	1,862.4	1,814.4	47.99	38.806	
5,900.0	5,706.8	6,357.8	5,706.8	23.9	39.9	44.61	2,163.6	435.0	1,862.4	1,814.2	48.14	38.683	
6,000.0	5,806.8	6,457.8	5,806.8	24.0	39.9	44.61	2,163.6	435.0	1,862.4	1,814.1	48.30	38.558	
6,100.0	5,906.8	6,557.8	5,906.8	24.1	40.0	44.61	2,163.6	435.0	1,862.4	1,813.9	48.46	38.433	
6,200.0	6,006.8	6,657.8	6,006.8	24.2	40.0	44.61	2,163.6	435.0	1,862.4	1,813.7	48.62	38.307	
6,247.2	6,054.0	6,705.0	6,054.0	24.2	40.1	44.61	2,163.6	435.0	1,862.4	1,813.7	48.69	38.247	
6,300.0	6,106.8	6,757.8	6,106.8	24.3	40.1	44.61	2,163.6	435.0	1,862.4	1,813.6	48.78	38.180	
6,347.2	6,154.0	6,805.0	6,154.0	24.3	40.1	44.61	2,163.6	435.0	1,862.4	1,813.5	48.86	38.120	

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Daybreak Federal 19-6BB (PJ 19)
Project:	S. Piceance	**TVD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Reference Site:	NWSE S19-T7S-R95W (PJ-19 Pad)	**MD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Daybreak Federal 19-6BB (PJ 19)	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	DD	**Database:**	EDM 5000.1 US Multi Users Db
Reference Design:	Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design NWSE S19-T7S-R95W (PJ-19 Pad) - Daybreak Federal 19-3BB (PJ-19) - DD - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	70.62	10.9	31.1	32.9				
100.0	100.0	100.0	100.0	0.1	0.1	70.62	10.9	31.1	32.9	32.7	0.27	120.988	
200.0	200.0	200.0	200.0	0.3	0.3	70.62	10.9	31.1	32.9	32.3	0.62	53.017	CC, ES
300.0	300.0	300.0	300.0	0.5	0.5	120.68	10.9	31.1	34.2	33.2	0.98	35.026	
400.0	399.6	400.1	400.1	0.7	0.7	126.84	13.4	30.1	38.2	36.8	1.36	28.055	
500.0	498.8	500.4	500.1	1.0	0.9	130.32	20.7	27.2	44.4	42.6	1.81	24.594	
600.0	597.1	600.8	599.6	1.4	1.2	131.61	32.9	22.4	52.7	50.3	2.35	22.420	
700.0	694.3	701.2	698.3	1.8	1.5	131.43	50.0	15.6	62.9	59.8	3.03	20.759	
800.0	790.2	801.5	795.8	2.4	1.9	130.37	71.8	6.9	74.9	71.0	3.87	19.366	
854.6	841.9	856.3	848.4	2.7	2.2	129.57	85.7	1.4	82.3	77.9	4.40	18.680	
900.0	884.6	901.8	891.9	3.0	2.5	128.71	98.3	-3.6	88.5	83.6	4.87	18.167	
1,000.0	978.8	1,001.9	986.2	3.6	3.1	125.09	129.5	-16.0	101.4	95.4	6.07	16.704	
1,100.0	1,073.0	1,101.5	1,078.2	4.2	3.8	119.71	165.0	-30.1	114.0	106.5	7.46	15.269	
1,200.0	1,167.2	1,200.0	1,168.1	4.8	4.5	114.34	202.2	-44.8	127.2	118.4	8.88	14.321	
1,300.0	1,261.4	1,298.5	1,258.1	5.4	5.2	110.00	239.4	-59.6	141.4	131.1	10.28	13.757	
1,400.0	1,355.5	1,396.9	1,348.1	6.0	5.9	106.47	276.7	-74.4	156.2	144.6	11.64	13.416	
1,500.0	1,449.7	1,493.9	1,435.7	6.7	6.7	102.82	315.3	-89.7	171.9	158.9	13.05	13.176	
1,600.0	1,543.9	1,589.4	1,519.8	7.3	7.5	98.40	357.3	-106.4	189.4	174.9	14.46	13.100	SF
1,700.0	1,638.1	1,682.9	1,599.9	7.9	8.4	93.57	402.1	-124.2	209.4	193.6	15.81	13.245	
1,800.0	1,732.3	1,774.1	1,675.6	8.5	9.4	88.64	449.3	-142.9	232.7	215.6	17.06	13.639	
1,900.0	1,826.5	1,862.7	1,746.7	9.2	10.3	83.85	498.4	-162.4	259.7	241.5	18.18	14.286	
2,000.0	1,920.6	1,948.4	1,813.2	9.8	11.3	79.35	548.7	-182.4	290.6	271.5	19.15	15.177	
2,100.0	2,014.8	2,031.0	1,874.9	10.4	12.3	75.24	599.8	-202.6	325.7	305.7	19.99	16.294	
2,200.0	2,109.0	2,110.5	1,931.9	11.0	13.4	71.54	651.2	-223.0	364.9	344.2	20.72	17.614	
2,300.0	2,203.2	2,190.5	1,987.2	11.7	14.4	68.12	705.0	-244.4	408.0	386.6	21.35	19.106	
2,400.0	2,297.4	2,277.3	2,046.5	12.3	15.5	64.99	763.8	-267.8	452.8	430.9	21.95	20.628	
2,500.0	2,391.6	2,364.0	2,105.8	12.9	16.7	62.40	822.6	-291.1	498.6	476.1	22.54	22.119	
2,600.0	2,485.7	2,450.7	2,165.1	13.6	17.8	60.24	881.4	-314.4	545.1	522.0	23.14	23.563	
2,700.0	2,579.9	2,537.4	2,224.4	14.2	19.0	58.40	940.3	-337.8	592.2	568.5	23.73	24.951	
2,800.0	2,674.1	2,624.1	2,283.7	14.8	20.1	56.83	999.1	-361.1	639.6	615.3	24.34	26.279	
2,900.0	2,768.3	2,710.9	2,343.0	15.4	21.3	55.47	1,057.9	-384.4	687.4	662.5	24.95	27.548	
3,000.0	2,862.5	2,797.6	2,402.3	16.1	22.4	54.28	1,116.7	-407.8	735.5	709.9	25.58	28.757	
3,100.0	2,956.7	2,884.3	2,461.7	16.7	23.6	53.24	1,175.5	-431.1	783.8	757.5	26.21	29.907	
3,200.0	3,050.8	2,971.0	2,521.0	17.3	24.7	52.31	1,234.3	-454.4	832.2	805.4	26.84	31.002	
3,300.0	3,145.0	3,057.7	2,580.3	17.9	25.9	51.49	1,293.1	-477.8	880.8	853.3	27.49	32.045	
3,400.0	3,239.2	3,144.5	2,639.6	18.6	27.0	50.75	1,351.9	-501.1	929.5	901.4	28.14	33.036	
3,500.0	3,333.4	3,231.2	2,698.9	19.2	28.2	50.08	1,410.7	-524.5	978.4	949.6	28.79	33.981	
3,600.0	3,427.6	3,317.9	2,758.2	19.8	29.3	49.48	1,469.5	-547.8	1,027.3	997.8	29.45	34.881	
3,628.3	3,454.2	3,342.4	2,775.0	20.0	29.6	49.32	1,486.1	-554.4	1,041.2	1,011.5	29.64	35.127	
3,700.0	3,522.1	3,404.3	2,817.3	20.4	30.5	49.52	1,528.1	-571.0	1,076.8	1,046.4	30.39	35.433	
3,800.0	3,617.6	3,489.2	2,875.4	21.0	31.6	49.75	1,585.7	-593.9	1,128.3	1,096.9	31.37	35.966	
3,900.0	3,714.1	3,572.6	2,932.4	21.4	32.7	49.95	1,642.2	-616.3	1,181.9	1,149.6	32.29	36.601	
4,000.0	3,811.4	3,654.4	2,988.3	21.8	33.8	50.13	1,697.7	-638.3	1,237.5	1,204.3	33.15	37.324	
4,100.0	3,909.5	3,734.3	3,043.0	22.2	34.8	50.31	1,751.9	-659.9	1,295.1	1,261.1	33.97	38.122	
4,200.0	4,008.2	3,889.2	3,151.5	22.5	36.8	49.63	1,854.6	-700.6	1,353.6	1,319.1	34.54	39.195	
4,300.0	4,107.4	4,141.7	3,346.1	22.7	39.6	48.26	2,003.9	-759.9	1,406.0	1,371.2	34.84	40.357	
4,400.0	4,207.0	4,433.9	3,595.4	22.9	42.2	47.06	2,145.1	-815.9	1,449.1	1,414.0	35.09	41.297	
4,500.0	4,306.8	4,765.0	3,901.9	23.0	44.3	46.14	2,260.4	-861.6	1,480.5	1,445.2	35.30	41.946	
4,600.0	4,406.8	5,126.7	4,255.7	23.1	45.5	45.56	2,328.0	-888.5	1,498.0	1,462.5	35.47	42.228	
4,610.2	4,417.0	5,164.6	4,293.4	23.1	45.6	-0.65	2,331.5	-889.9	1,498.9	1,463.4	35.49	42.232	
4,700.0	4,506.8	5,378.3	4,506.8	23.1	45.8	-0.75	2,338.4	-892.6	1,500.8	1,465.1	35.68	42.058	
4,800.0	4,606.8	5,478.3	4,606.8	23.2	45.8	-0.75	2,338.4	-892.6	1,500.8	1,464.9	35.86	41.855	

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

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Daybreak Federal 19-6BB (PJ 19)
Project:	S. Piceance	**TVD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Reference Site:	NWSE S19-T7S-R95W (PJ-19 Pad)	**MD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Daybreak Federal 19-6BB (PJ 19)	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	DD	**Database:**	EDM 5000.1 US Multi Users Db
Reference Design:	Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design NWSE S19-T7S-R95W (PJ-19 Pad) - Daybreak Federal 19-3BB (PJ-19) - DD - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
4,900.0	4,706.8	5,578.3	4,706.8	23.3	45.8	-0.75	2,338.4	-892.6	1,500.8	1,464.7	36.03	41.652	
5,000.0	4,806.8	5,678.3	4,806.8	23.3	45.9	-0.75	2,338.4	-892.6	1,500.8	1,464.6	36.21	41.448	
5,100.0	4,906.8	5,778.3	4,906.8	23.4	45.9	-0.75	2,338.4	-892.6	1,500.8	1,464.4	36.39	41.243	
5,200.0	5,006.8	5,878.3	5,006.8	23.4	45.9	-0.75	2,338.4	-892.6	1,500.8	1,464.2	36.57	41.037	
5,300.0	5,106.8	5,978.3	5,106.8	23.5	46.0	-0.75	2,338.4	-892.6	1,500.8	1,464.0	36.76	40.831	
5,400.0	5,206.8	6,078.3	5,206.8	23.6	46.0	-0.75	2,338.4	-892.6	1,500.8	1,463.8	36.94	40.624	
5,500.0	5,306.8	6,178.3	5,306.8	23.7	46.1	-0.75	2,338.4	-892.6	1,500.8	1,463.6	37.13	40.416	
5,600.0	5,406.8	6,278.3	5,406.8	23.7	46.1	-0.75	2,338.4	-892.6	1,500.8	1,463.4	37.32	40.209	
5,700.0	5,506.8	6,378.3	5,506.8	23.8	46.1	-0.75	2,338.4	-892.6	1,500.8	1,463.3	37.52	40.001	
5,800.0	5,606.8	6,478.3	5,606.8	23.9	46.2	-0.75	2,338.4	-892.6	1,500.8	1,463.1	37.72	39.792	
5,900.0	5,706.8	6,578.3	5,706.8	23.9	46.2	-0.75	2,338.4	-892.6	1,500.8	1,462.9	37.91	39.584	
6,000.0	5,806.8	6,678.3	5,806.8	24.0	46.3	-0.75	2,338.4	-892.6	1,500.8	1,462.7	38.11	39.375	
6,100.0	5,906.8	6,778.3	5,906.8	24.1	46.3	-0.75	2,338.4	-892.6	1,500.8	1,462.5	38.32	39.167	
6,200.0	6,006.8	6,878.3	6,006.8	24.2	46.4	-0.75	2,338.4	-892.6	1,500.8	1,462.2	38.52	38.959	
6,247.2	6,054.0	6,925.5	6,054.0	24.2	46.4	-0.75	2,338.4	-892.6	1,500.8	1,462.2	38.62	38.860	
6,300.0	6,106.8	6,978.3	6,106.8	24.3	46.4	-0.75	2,338.4	-892.6	1,500.8	1,462.0	38.73	38.750	
6,347.2	6,154.0	7,025.5	6,154.0	24.3	46.4	-0.75	2,338.4	-892.6	1,500.8	1,461.9	38.83	38.652	

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Daybreak Federal 19-6BB (PJ 19)
Project:	S. Piceance	**TVD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Reference Site:	NWSE S19-T7S-R95W (PJ-19 Pad)	**MD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Daybreak Federal 19-6BB (PJ 19)	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	DD	**Database:**	EDM 5000.1 US Multi Users Db
Reference Design:	Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design NWSE S19-T7S-R95W (PJ-19 Pad) - Daybreak Federal 19-6 (PJ-19) - DD - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	75.52	3.6	14.1	14.6				
100.0	100.0	100.0	100.0	0.1	0.1	75.52	3.6	14.1	14.6	14.3	0.27	53.580	
200.0	200.0	200.0	200.0	0.3	0.3	75.52	3.6	14.1	14.6	14.0	0.62	23.479	CC, ES
300.0	300.0	300.0	300.0	0.5	0.5	129.60	3.6	14.1	16.1	15.1	0.98	16.530	
400.0	399.6	400.3	400.2	0.7	0.7	139.81	5.9	12.8	20.4	19.1	1.35	15.179	
500.0	498.8	500.8	500.4	1.0	0.9	143.80	12.8	8.9	26.2	24.4	1.75	14.923	
600.0	597.1	601.5	600.3	1.4	1.2	144.30	24.3	2.4	33.0	30.8	2.23	14.778	
700.0	694.3	702.4	699.4	1.8	1.5	143.00	40.4	-6.7	40.8	38.0	2.83	14.449	
800.0	790.2	803.4	797.6	2.4	1.9	140.83	61.0	-18.4	49.7	46.1	3.57	13.906	
854.6	841.9	858.6	850.6	2.7	2.2	139.45	74.2	-25.9	55.0	51.0	4.06	13.540	
900.0	884.6	904.5	894.4	3.0	2.5	138.00	86.2	-32.7	59.3	54.8	4.51	13.156	
1,000.0	978.8	1,005.7	989.7	3.6	3.1	132.55	115.7	-49.5	67.0	61.3	5.72	11.706	
1,100.0	1,073.0	1,106.3	1,082.6	4.2	3.8	124.46	149.5	-68.6	73.3	66.1	7.25	10.109	
1,200.0	1,167.2	1,205.5	1,173.2	4.8	4.5	116.25	184.6	-88.5	80.4	71.5	8.85	9.084	
1,300.0	1,261.4	1,304.6	1,263.7	5.4	5.3	109.47	219.6	-108.4	88.8	78.4	10.38	8.555	
1,400.0	1,355.5	1,403.8	1,354.3	6.0	6.0	103.92	254.7	-128.3	98.3	86.4	11.84	8.298	
1,500.0	1,449.7	1,502.2	1,443.0	6.7	6.8	97.97	291.7	-149.3	108.8	95.5	13.31	8.175	SF
1,600.0	1,543.9	1,599.1	1,528.2	7.3	7.7	90.88	331.9	-172.1	121.5	106.9	14.69	8.274	
1,700.0	1,638.1	1,696.0	1,611.5	7.9	8.5	83.69	375.0	-196.6	137.2	121.4	15.84	8.661	
1,800.0	1,732.3	1,793.3	1,695.0	8.5	9.5	77.89	418.5	-221.2	154.7	137.9	16.83	9.194	
1,900.0	1,826.5	1,890.7	1,778.6	9.2	10.4	73.29	462.0	-245.9	173.5	155.8	17.71	9.793	
2,000.0	1,920.6	1,988.1	1,862.1	9.8	11.3	69.59	505.5	-270.6	193.1	174.6	18.55	10.412	
2,100.0	2,014.8	2,085.4	1,945.6	10.4	12.2	66.57	548.9	-295.2	213.4	194.0	19.35	11.028	
2,200.0	2,109.0	2,182.8	2,029.2	11.0	13.1	64.08	592.4	-319.9	234.1	214.0	20.14	11.627	
2,300.0	2,203.2	2,280.1	2,112.7	11.7	14.0	61.99	635.9	-344.6	255.2	234.3	20.92	12.202	
2,400.0	2,297.4	2,377.5	2,196.3	12.3	14.9	60.22	679.4	-369.2	276.6	254.9	21.70	12.750	
2,500.0	2,391.6	2,474.8	2,279.8	12.9	15.8	58.71	722.9	-393.9	298.2	275.7	22.48	13.269	
2,600.0	2,485.7	2,572.2	2,363.4	13.6	16.7	57.40	766.3	-418.6	320.0	296.7	23.26	13.759	
2,700.0	2,579.9	2,669.5	2,446.9	14.2	17.6	56.26	809.8	-443.2	341.9	317.9	24.04	14.223	
2,800.0	2,674.1	2,766.9	2,530.4	14.8	18.6	55.25	853.3	-467.9	363.9	339.1	24.83	14.660	
2,900.0	2,768.3	2,864.3	2,614.0	15.4	19.5	54.36	896.8	-492.6	386.1	360.4	25.61	15.072	
3,000.0	2,862.5	2,961.6	2,697.5	16.1	20.4	53.56	940.3	-517.2	408.3	381.9	26.41	15.461	
3,100.0	2,956.7	3,059.0	2,781.1	16.7	21.3	52.85	983.7	-541.9	430.5	403.3	27.20	15.828	
3,200.0	3,050.8	3,156.3	2,864.6	17.3	22.2	52.21	1,027.2	-566.6	452.9	424.9	28.00	16.175	
3,300.0	3,145.0	3,253.7	2,948.1	17.9	23.1	51.63	1,070.7	-591.2	475.2	446.4	28.80	16.503	
3,400.0	3,239.2	3,351.0	3,031.7	18.6	24.0	51.10	1,114.2	-615.9	497.6	468.1	29.60	16.813	
3,500.0	3,333.4	3,448.4	3,115.2	19.2	25.0	50.61	1,157.7	-640.6	520.1	489.7	30.40	17.108	
3,600.0	3,427.6	3,545.7	3,198.8	19.8	25.9	50.17	1,201.1	-665.2	542.6	511.4	31.21	17.387	
3,628.3	3,454.2	3,573.3	3,222.4	20.0	26.1	50.05	1,213.4	-672.2	549.0	517.5	31.43	17.463	
3,700.0	3,522.1	3,642.9	3,282.2	20.4	26.8	49.95	1,244.6	-689.8	565.7	533.6	32.06	17.647	
3,800.0	3,617.6	3,739.5	3,365.0	21.0	27.7	49.65	1,287.7	-714.3	590.9	558.1	32.78	18.027	
3,900.0	3,714.1	3,835.2	3,447.1	21.4	28.6	49.20	1,330.4	-738.5	618.4	585.1	33.35	18.542	
4,000.0	3,811.4	3,958.3	3,554.0	21.8	29.7	48.41	1,383.5	-768.6	646.8	613.0	33.77	19.154	
4,100.0	3,909.5	4,094.9	3,676.9	22.2	30.7	47.67	1,435.4	-798.1	671.9	637.8	34.13	19.689	
4,200.0	4,008.2	4,235.4	3,807.4	22.5	31.6	47.07	1,480.6	-823.8	693.5	659.0	34.43	20.138	
4,300.0	4,107.4	4,379.5	3,944.8	22.7	32.3	46.58	1,518.2	-845.1	711.1	676.4	34.70	20.493	
4,400.0	4,207.0	4,526.4	4,087.8	22.9	32.9	46.21	1,547.2	-861.5	724.6	689.7	34.91	20.756	
4,500.0	4,306.8	4,675.5	4,235.2	23.0	33.3	45.95	1,566.7	-872.6	733.9	698.9	35.07	20.925	
4,600.0	4,406.8	4,826.0	4,385.3	23.1	33.4	45.78	1,576.2	-878.0	738.8	703.6	35.18	20.999	
4,610.2	4,417.0	4,841.4	4,400.7	23.1	33.4	-0.41	1,576.6	-878.2	739.1	703.9	35.19	21.001	
4,700.0	4,506.8	4,947.6	4,506.8	23.1	33.5	-0.44	1,577.2	-878.5	739.4	704.1	35.34	20.924	
4,800.0	4,606.8	5,047.6	4,606.8	23.2	33.5	-0.44	1,577.2	-878.5	739.4	703.9	35.50	20.826	

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

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Daybreak Federal 19-6BB (PJ 19)
Project:	S. Piceance	**TVD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Reference Site:	NWSE S19-T7S-R95W (PJ-19 Pad)	**MD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Daybreak Federal 19-6BB (PJ 19)	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	DD	**Database:**	EDM 5000.1 US Multi Users Db
Reference Design:	Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design NWSE S19-T7S-R95W (PJ-19 Pad) - Daybreak Federal 19-6 (PJ-19) - DD - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
4,900.0	4,706.8	5,147.6	4,706.8	23.3	33.6	-0.44	1,577.2	-878.5	739.4	703.7	35.67	20.727	
5,000.0	4,806.8	5,247.6	4,806.8	23.3	33.6	-0.44	1,577.2	-878.5	739.4	703.6	35.85	20.627	
5,100.0	4,906.8	5,347.6	4,906.8	23.4	33.7	-0.44	1,577.2	-878.5	739.4	703.4	36.02	20.527	
5,200.0	5,006.8	5,447.6	5,006.8	23.4	33.7	-0.44	1,577.2	-878.5	739.4	703.2	36.20	20.427	
5,300.0	5,106.8	5,547.6	5,106.8	23.5	33.8	-0.44	1,577.2	-878.5	739.4	703.0	36.38	20.326	
5,400.0	5,206.8	5,647.6	5,206.8	23.6	33.8	-0.44	1,577.2	-878.5	739.4	702.9	36.56	20.225	
5,500.0	5,306.8	5,747.6	5,306.8	23.7	33.9	-0.44	1,577.2	-878.5	739.4	702.7	36.74	20.123	
5,600.0	5,406.8	5,847.6	5,406.8	23.7	33.9	-0.44	1,577.2	-878.5	739.4	702.5	36.93	20.021	
5,700.0	5,506.8	5,947.6	5,506.8	23.8	34.0	-0.44	1,577.2	-878.5	739.4	702.3	37.12	19.919	
5,800.0	5,606.8	6,047.6	5,606.8	23.9	34.0	-0.44	1,577.2	-878.5	739.4	702.1	37.31	19.817	
5,900.0	5,706.8	6,147.6	5,706.8	23.9	34.1	-0.44	1,577.2	-878.5	739.4	701.9	37.51	19.715	
6,000.0	5,806.8	6,247.6	5,806.8	24.0	34.1	-0.44	1,577.2	-878.5	739.4	701.7	37.70	19.612	
6,100.0	5,906.8	6,347.6	5,906.8	24.1	34.2	-0.44	1,577.2	-878.5	739.4	701.5	37.90	19.509	
6,200.0	6,006.8	6,447.6	6,006.8	24.2	34.3	-0.44	1,577.2	-878.5	739.4	701.3	38.10	19.407	
6,247.2	6,054.0	6,494.7	6,054.0	24.2	34.3	-0.44	1,577.2	-878.5	739.4	701.2	38.20	19.358	
6,300.0	6,106.8	6,547.6	6,106.8	24.3	34.3	-0.44	1,577.2	-878.5	739.4	701.1	38.30	19.304	
6,347.2	6,154.0	6,594.7	6,154.0	24.3	34.3	-0.44	1,577.2	-878.5	739.4	701.0	38.40	19.256	

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Daybreak Federal 19-6BB (PJ 19)
Project:	S. Piceance	**TVD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Reference Site:	NWSE S19-T7S-R95W (PJ-19 Pad)	**MD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Daybreak Federal 19-6BB (PJ 19)	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	DD	**Database:**	EDM 5000.1 US Multi Users Db
Reference Design:	Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design NWSE S19-T7S-R95W (PJ-19 Pad) - Daybreak Federal 19-6C (PJ-19) - DD - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	53.61	14.6	19.8	24.6				
100.0	100.0	100.0	100.0	0.1	0.1	53.61	14.6	19.8	24.6	24.3	0.27	90.223	
200.0	200.0	200.0	200.0	0.3	0.3	53.61	14.6	19.8	24.6	23.9	0.62	39.536	CC, ES
300.0	300.0	299.7	299.7	0.5	0.5	99.81	16.9	18.7	25.5	24.6	0.99	25.893	
400.0	399.6	399.4	399.0	0.7	0.7	99.86	24.0	15.4	28.5	27.0	1.42	19.990	
500.0	498.8	499.0	497.7	1.0	1.0	99.92	35.8	10.0	33.3	31.3	1.98	16.804	
600.0	597.1	598.4	595.5	1.4	1.4	99.94	52.2	2.5	40.1	37.4	2.69	14.887	
700.0	694.3	697.6	691.9	1.8	1.8	99.92	73.1	-7.1	48.8	45.2	3.57	13.659	
800.0	790.2	796.5	786.8	2.4	2.3	99.85	98.5	-18.8	59.3	54.7	4.62	12.840	
854.6	841.9	850.3	837.9	2.7	2.7	99.79	114.2	-26.0	65.8	60.6	5.26	12.509	
900.0	884.6	895.1	879.9	3.0	2.9	99.48	128.2	-32.5	71.6	65.8	5.81	12.331	
1,000.0	978.8	993.2	970.6	3.6	3.6	96.50	162.1	-48.1	85.1	78.0	7.07	12.027	
1,100.0	1,073.0	1,090.4	1,058.5	4.2	4.4	91.58	199.8	-65.4	100.2	91.9	8.36	11.985	SF
1,200.0	1,167.2	1,188.4	1,145.8	4.8	5.2	86.58	240.2	-83.9	117.1	107.5	9.58	12.219	
1,300.0	1,261.4	1,286.5	1,233.2	5.4	6.0	82.83	280.6	-102.5	134.7	123.9	10.76	12.515	
1,400.0	1,355.5	1,384.6	1,320.7	6.0	6.8	79.95	321.1	-121.2	152.6	140.7	11.90	12.820	
1,500.0	1,449.7	1,478.9	1,403.9	6.7	7.6	77.29	361.3	-139.6	171.8	158.8	13.02	13.193	
1,600.0	1,543.9	1,570.8	1,482.9	7.3	8.5	74.09	404.0	-159.3	194.0	180.0	14.05	13.811	
1,700.0	1,638.1	1,660.7	1,557.8	7.9	9.4	70.68	449.0	-180.0	219.7	204.7	14.97	14.671	
1,800.0	1,732.3	1,752.1	1,632.0	8.5	10.4	67.25	497.6	-202.3	248.6	232.8	15.79	15.742	
1,900.0	1,826.5	1,846.7	1,708.4	9.2	11.4	64.35	548.2	-225.6	278.6	262.0	16.58	16.795	
2,000.0	1,920.6	1,941.2	1,784.8	9.8	12.4	62.01	598.8	-248.8	309.1	291.7	17.37	17.791	
2,100.0	2,014.8	2,035.7	1,861.2	10.4	13.4	60.09	649.3	-272.1	340.0	321.8	18.16	18.723	
2,200.0	2,109.0	2,130.3	1,937.6	11.0	14.4	58.48	699.9	-295.3	371.1	352.2	18.94	19.593	
2,300.0	2,203.2	2,224.8	2,014.0	11.7	15.4	57.13	750.5	-318.6	402.6	382.8	19.73	20.403	
2,400.0	2,297.4	2,319.3	2,090.5	12.3	16.4	55.97	801.1	-341.8	434.1	413.6	20.52	21.156	
2,500.0	2,391.6	2,413.9	2,166.9	12.9	17.5	54.96	851.7	-365.1	465.9	444.5	21.31	21.857	
2,600.0	2,485.7	2,508.4	2,243.3	13.6	18.5	54.08	902.2	-388.4	497.7	475.6	22.11	22.510	
2,700.0	2,579.9	2,603.0	2,319.7	14.2	19.5	53.31	952.8	-411.6	529.6	506.7	22.91	23.120	
2,800.0	2,674.1	2,697.5	2,396.1	14.8	20.5	52.63	1,003.4	-434.9	561.6	537.9	23.71	23.689	
2,900.0	2,768.3	2,792.0	2,472.5	15.4	21.5	52.02	1,054.0	-458.1	593.7	569.2	24.51	24.221	
3,000.0	2,862.5	2,886.6	2,548.9	16.1	22.5	51.47	1,104.6	-481.4	625.8	600.5	25.32	24.720	
3,100.0	2,956.7	2,981.1	2,625.3	16.7	23.5	50.98	1,155.1	-504.6	658.0	631.9	26.12	25.188	
3,200.0	3,050.8	3,075.6	2,701.7	17.3	24.5	50.53	1,205.7	-527.9	690.2	663.3	26.93	25.627	
3,300.0	3,145.0	3,170.2	2,778.1	17.9	25.5	50.12	1,256.3	-551.2	722.5	694.7	27.74	26.042	
3,400.0	3,239.2	3,264.7	2,854.5	18.6	26.6	49.74	1,306.9	-574.4	754.8	726.2	28.55	26.432	
3,500.0	3,333.4	3,359.2	2,930.9	19.2	27.6	49.40	1,357.5	-597.7	787.1	757.7	29.37	26.801	
3,600.0	3,427.6	3,453.8	3,007.3	19.8	28.6	49.08	1,408.0	-620.9	819.4	789.2	30.18	27.149	
3,628.3	3,454.2	3,480.5	3,029.0	20.0	28.9	49.00	1,422.4	-627.5	828.5	798.1	30.41	27.244	
3,700.0	3,522.1	3,548.1	3,083.6	20.4	29.6	49.12	1,458.5	-644.1	852.3	821.2	31.12	27.390	
3,800.0	3,617.6	3,641.5	3,159.1	21.0	30.6	49.20	1,508.5	-667.1	887.3	855.3	32.00	27.729	
3,900.0	3,714.1	3,733.9	3,233.7	21.4	31.6	49.19	1,557.9	-689.8	924.5	891.7	32.78	28.206	
4,000.0	3,811.4	3,825.1	3,307.4	21.8	32.6	49.10	1,606.7	-712.3	964.0	930.5	33.46	28.812	
4,100.0	3,909.5	3,967.4	3,424.3	22.2	34.0	48.53	1,680.4	-746.2	1,004.1	970.1	33.99	29.540	
4,200.0	4,008.2	4,145.9	3,578.8	22.5	35.5	47.84	1,761.6	-783.5	1,039.5	1,005.0	34.43	30.190	
4,300.0	4,107.4	4,335.0	3,750.7	22.7	36.9	47.26	1,833.0	-816.3	1,069.0	1,034.2	34.81	30.711	
4,400.0	4,207.0	4,533.7	3,938.8	22.9	38.0	46.80	1,890.9	-842.9	1,092.2	1,057.0	35.12	31.099	
4,500.0	4,306.8	4,739.9	4,140.0	23.0	38.7	46.46	1,931.9	-861.8	1,108.3	1,072.9	35.35	31.348	
4,600.0	4,406.8	4,951.4	4,350.0	23.1	39.1	46.24	1,953.2	-871.6	1,116.9	1,081.4	35.51	31.452	
4,610.2	4,417.0	4,973.1	4,371.6	23.1	39.1	0.04	1,954.2	-872.1	1,117.4	1,081.9	35.53	31.452	
4,700.0	4,506.8	5,108.3	4,506.8	23.1	39.2	0.00	1,956.0	-872.9	1,118.2	1,082.5	35.69	31.334	
4,800.0	4,606.8	5,208.3	4,606.8	23.2	39.2	0.00	1,956.0	-872.9	1,118.2	1,082.3	35.85	31.187	

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

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Daybreak Federal 19-6BB (PJ 19)
Project:	S. Piceance	**TVD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Reference Site:	NWSE S19-T7S-R95W (PJ-19 Pad)	**MD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Daybreak Federal 19-6BB (PJ 19)	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	DD	**Database:**	EDM 5000.1 US Multi Users Db
Reference Design:	Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design NWSE S19-T7S-R95W (PJ-19 Pad) - Daybreak Federal 19-6C (PJ-19) - DD - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
4,900.0	4,706.8	5,308.3	4,706.8	23.3	39.3	0.00	1,956.0	-872.9	1,118.2	1,082.2	36.03	31.039	
5,000.0	4,806.8	5,408.3	4,806.8	23.3	39.3	0.00	1,956.0	-872.9	1,118.2	1,082.0	36.20	30.891	
5,100.0	4,906.8	5,508.3	4,906.8	23.4	39.4	0.00	1,956.0	-872.9	1,118.2	1,081.8	36.37	30.742	
5,200.0	5,006.8	5,608.3	5,006.8	23.4	39.4	0.00	1,956.0	-872.9	1,118.2	1,081.6	36.55	30.592	
5,300.0	5,106.8	5,708.3	5,106.8	23.5	39.4	0.00	1,956.0	-872.9	1,118.2	1,081.5	36.73	30.442	
5,400.0	5,206.8	5,808.3	5,206.8	23.6	39.5	0.00	1,956.0	-872.9	1,118.2	1,081.3	36.92	30.291	
5,500.0	5,306.8	5,908.3	5,306.8	23.7	39.5	0.00	1,956.0	-872.9	1,118.2	1,081.1	37.10	30.139	
5,600.0	5,406.8	6,008.3	5,406.8	23.7	39.6	0.00	1,956.0	-872.9	1,118.2	1,080.9	37.29	29.988	
5,700.0	5,506.8	6,108.3	5,506.8	23.8	39.6	0.00	1,956.0	-872.9	1,118.2	1,080.7	37.48	29.836	
5,800.0	5,606.8	6,208.3	5,606.8	23.9	39.7	0.00	1,956.0	-872.9	1,118.2	1,080.5	37.67	29.683	
5,900.0	5,706.8	6,308.3	5,706.8	23.9	39.7	0.00	1,956.0	-872.9	1,118.2	1,080.3	37.87	29.531	
6,000.0	5,806.8	6,408.3	5,806.8	24.0	39.8	0.00	1,956.0	-872.9	1,118.2	1,080.1	38.06	29.378	
6,100.0	5,906.8	6,508.3	5,906.8	24.1	39.8	0.00	1,956.0	-872.9	1,118.2	1,079.9	38.26	29.225	
6,200.0	6,006.8	6,608.3	6,006.8	24.2	39.9	0.00	1,956.0	-872.9	1,118.2	1,079.7	38.46	29.073	
6,247.2	6,054.0	6,655.5	6,054.0	24.2	39.9	0.00	1,956.0	-872.9	1,118.2	1,079.6	38.56	29.000	
6,300.0	6,106.8	6,708.3	6,106.8	24.3	39.9	0.00	1,956.0	-872.9	1,118.2	1,079.5	38.67	28.920	
6,347.2	6,154.0	6,755.5	6,154.0	24.3	39.9	0.00	1,956.0	-872.9	1,118.2	1,079.4	38.76	28.848	

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Daybreak Federal 19-6BB (PJ 19)
Project:	S. Piceance	**TVD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Reference Site:	NWSE S19-T7S-R95W (PJ-19 Pad)	**MD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Daybreak Federal 19-6BB (PJ 19)	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	DD	**Database:**	EDM 5000.1 US Multi Users Db
Reference Design:	Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design NWSE S19-T7S-R95W (PJ-19 Pad) - Daybreak Federal 19-6D (PJ-19) - DD - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	37.78	7.3	5.7	9.2				
100.0	100.0	100.0	100.0	0.1	0.1	37.78	7.3	5.7	9.2	9.0	0.27	33.872	
200.0	200.0	200.0	200.0	0.3	0.3	37.78	7.3	5.7	9.2	8.6	0.62	14.843	CC, ES
300.0	300.0	299.9	299.8	0.5	0.5	84.60	9.4	4.2	9.7	8.8	0.99	9.874	
400.0	399.6	399.7	399.3	0.7	0.7	86.17	15.9	-0.3	11.3	9.9	1.42	7.932	
500.0	498.8	499.5	498.3	1.0	1.0	88.00	26.6	-7.6	13.9	11.9	1.99	6.996	
600.0	597.1	599.2	596.3	1.4	1.4	89.61	41.5	-17.9	17.6	14.8	2.71	6.484	
700.0	694.3	698.9	693.3	1.8	1.8	90.88	60.6	-31.1	22.2	18.6	3.60	6.177	
800.0	790.2	798.5	788.8	2.4	2.3	91.82	83.9	-47.1	28.0	23.3	4.67	5.982	
854.6	841.9	852.9	840.3	2.7	2.7	92.21	98.3	-57.1	31.5	26.2	5.33	5.904	
900.0	884.6	898.1	882.6	3.0	3.0	91.69	111.2	-65.9	34.7	28.8	5.89	5.887	SF
1,000.0	978.8	997.4	974.6	3.6	3.7	86.10	142.2	-87.3	42.4	35.3	7.11	5.959	
1,100.0	1,073.0	1,097.0	1,066.2	4.2	4.4	80.88	174.3	-109.4	50.8	42.5	8.27	6.142	
1,200.0	1,167.2	1,196.5	1,157.8	4.8	5.1	77.16	206.4	-131.5	59.5	50.1	9.40	6.335	
1,300.0	1,261.4	1,296.1	1,249.4	5.4	5.8	74.40	238.5	-153.7	68.4	57.9	10.50	6.518	
1,400.0	1,355.5	1,395.7	1,341.0	6.0	6.5	72.28	270.5	-175.8	77.5	65.9	11.59	6.683	
1,500.0	1,449.7	1,495.2	1,432.6	6.7	7.2	70.60	302.6	-197.9	86.6	73.9	12.67	6.831	
1,600.0	1,543.9	1,594.8	1,524.3	7.3	7.9	69.24	334.7	-220.0	95.8	82.0	13.75	6.963	
1,700.0	1,638.1	1,694.3	1,615.9	7.9	8.6	68.12	366.8	-242.1	105.0	90.1	14.83	7.080	
1,800.0	1,732.3	1,793.9	1,707.5	8.5	9.3	67.19	398.9	-264.2	114.2	98.3	15.90	7.185	
1,900.0	1,826.5	1,893.4	1,799.1	9.2	10.0	66.39	430.9	-286.3	123.5	106.5	16.97	7.279	
2,000.0	1,920.6	1,993.0	1,890.7	9.8	10.8	65.70	463.0	-308.4	132.8	114.8	18.03	7.364	
2,100.0	2,014.8	2,092.5	1,982.3	10.4	11.5	65.11	495.1	-330.5	142.1	123.0	19.10	7.440	
2,200.0	2,109.0	2,192.1	2,073.9	11.0	12.2	64.58	527.2	-352.6	151.4	131.3	20.17	7.509	
2,300.0	2,203.2	2,291.7	2,165.6	11.7	12.9	64.12	559.3	-374.7	160.8	139.5	21.23	7.572	
2,400.0	2,297.4	2,391.2	2,257.2	12.3	13.6	63.71	591.3	-396.8	170.1	147.8	22.30	7.630	
2,500.0	2,391.6	2,490.8	2,348.8	12.9	14.3	63.34	623.4	-418.9	179.5	156.1	23.36	7.683	
2,600.0	2,485.7	2,590.3	2,440.4	13.6	15.1	63.01	655.5	-441.0	188.8	164.4	24.42	7.732	
2,700.0	2,579.9	2,689.9	2,532.0	14.2	15.8	62.71	687.6	-463.1	198.2	172.7	25.49	7.776	
2,800.0	2,674.1	2,789.4	2,623.6	14.8	16.5	62.44	719.6	-485.3	207.6	181.0	26.55	7.818	
2,900.0	2,768.3	2,889.0	2,715.3	15.4	17.2	62.19	751.7	-507.4	217.0	189.3	27.61	7.857	
3,000.0	2,862.5	2,988.5	2,806.9	16.1	17.9	61.96	783.8	-529.5	226.3	197.7	28.68	7.893	
3,100.0	2,956.7	3,088.1	2,898.5	16.7	18.6	61.75	815.9	-551.6	235.7	206.0	29.74	7.926	
3,200.0	3,050.8	3,187.7	2,990.1	17.3	19.4	61.55	848.0	-573.7	245.1	214.3	30.80	7.957	
3,300.0	3,145.0	3,287.2	3,081.7	17.9	20.1	61.37	880.0	-595.8	254.5	222.6	31.86	7.987	
3,400.0	3,239.2	3,386.8	3,173.3	18.6	20.8	61.20	912.1	-617.9	263.9	231.0	32.93	8.014	
3,500.0	3,333.4	3,486.3	3,265.0	19.2	21.5	61.05	944.2	-640.0	273.3	239.3	33.99	8.040	
3,600.0	3,427.6	3,585.9	3,356.6	19.8	22.2	60.90	976.3	-662.1	282.7	247.6	35.05	8.065	
3,628.3	3,454.2	3,614.0	3,382.5	20.0	22.4	60.86	985.4	-668.4	285.3	250.0	35.35	8.071	
3,700.0	3,522.1	3,685.4	3,448.1	20.4	22.9	60.74	1,008.3	-684.2	292.5	256.4	36.06	8.112	
3,800.0	3,617.6	3,784.6	3,539.5	21.0	23.7	60.12	1,040.3	-706.2	304.0	267.2	36.81	8.259	
3,900.0	3,714.1	3,883.5	3,630.4	21.4	24.4	59.04	1,072.2	-728.2	317.3	280.0	37.30	8.508	
4,000.0	3,811.4	3,987.2	3,726.1	21.8	25.1	57.56	1,105.2	-751.0	332.3	294.8	37.53	8.856	
4,100.0	3,909.5	4,100.0	3,832.1	22.2	25.8	56.16	1,137.0	-772.8	346.1	308.5	37.66	9.190	
4,200.0	4,008.2	4,214.2	3,941.5	22.5	26.3	55.07	1,163.8	-791.3	357.9	320.1	37.78	9.472	
4,300.0	4,107.4	4,329.7	4,053.9	22.7	26.8	54.23	1,185.4	-806.2	367.3	329.5	37.88	9.697	
4,400.0	4,207.0	4,446.1	4,168.6	22.9	27.1	53.62	1,201.5	-817.3	374.5	336.5	37.97	9.862	
4,500.0	4,306.8	4,563.1	4,285.0	23.0	27.3	53.21	1,211.9	-824.5	379.1	341.1	38.04	9.966	
4,600.0	4,406.8	4,680.6	4,402.4	23.1	27.4	53.00	1,216.4	-827.6	381.4	343.3	38.10	10.008	
4,610.2	4,417.0	4,692.6	4,414.4	23.1	27.4	6.81	1,216.5	-827.6	381.4	343.3	38.11	10.008	
4,700.0	4,506.8	4,785.1	4,506.8	23.1	27.5	6.81	1,216.6	-827.7	381.5	343.2	38.25	9.975	
4,800.0	4,606.8	4,885.1	4,606.8	23.2	27.5	6.81	1,216.6	-827.7	381.5	343.1	38.40	9.935	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Daybreak Federal 19-6BB (PJ 19)
Project:	S. Piceance	**TVD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Reference Site:	NWSE S19-T7S-R95W (PJ-19 Pad)	**MD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Daybreak Federal 19-6BB (PJ 19)	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	DD	**Database:**	EDM 5000.1 US Multi Users Db
Reference Design:	Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design NWSE S19-T7S-R95W (PJ-19 Pad) - Daybreak Federal 19-6D (PJ-19) - DD - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
4,900.0	4,706.8	4,985.1	4,706.8	23.3	27.6	6.81	1,216.6	-827.7	381.5	342.9	38.55	9.896	
5,000.0	4,806.8	5,085.1	4,806.8	23.3	27.6	6.81	1,216.6	-827.7	381.5	342.8	38.71	9.856	
5,100.0	4,906.8	5,185.1	4,906.8	23.4	27.7	6.81	1,216.6	-827.7	381.5	342.6	38.87	9.815	
5,200.0	5,006.8	5,285.1	5,006.8	23.4	27.7	6.81	1,216.6	-827.7	381.5	342.5	39.03	9.774	
5,300.0	5,106.8	5,385.1	5,106.8	23.5	27.8	6.81	1,216.6	-827.7	381.5	342.3	39.19	9.734	
5,400.0	5,206.8	5,485.1	5,206.8	23.6	27.9	6.81	1,216.6	-827.7	381.5	342.1	39.36	9.692	
5,500.0	5,306.8	5,585.1	5,306.8	23.7	27.9	6.81	1,216.6	-827.7	381.5	342.0	39.53	9.651	
5,600.0	5,406.8	5,685.1	5,406.8	23.7	28.0	6.81	1,216.6	-827.7	381.5	341.8	39.70	9.609	
5,700.0	5,506.8	5,785.1	5,506.8	23.8	28.0	6.81	1,216.6	-827.7	381.5	341.6	39.87	9.567	
5,800.0	5,606.8	5,885.1	5,606.8	23.9	28.1	6.81	1,216.6	-827.7	381.5	341.4	40.05	9.525	
5,900.0	5,706.8	5,985.1	5,706.8	23.9	28.2	6.81	1,216.6	-827.7	381.5	341.3	40.23	9.483	
6,000.0	5,806.8	6,085.1	5,806.8	24.0	28.2	6.81	1,216.6	-827.7	381.5	341.1	40.41	9.441	
6,100.0	5,906.8	6,185.1	5,906.8	24.1	28.3	6.81	1,216.6	-827.7	381.5	340.9	40.59	9.398	
6,200.0	6,006.8	6,285.1	6,006.8	24.2	28.4	6.81	1,216.6	-827.7	381.5	340.7	40.78	9.356	
6,247.2	6,054.0	6,332.3	6,054.0	24.2	28.4	6.81	1,216.6	-827.7	381.5	340.6	40.86	9.336	
6,300.0	6,106.8	6,385.1	6,106.8	24.3	28.4	6.81	1,216.6	-827.7	381.5	340.5	40.96	9.313	
6,347.2	6,154.0	6,432.3	6,154.0	24.3	28.5	6.81	1,216.6	-827.7	381.5	340.4	41.05	9.293	

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Daybreak Federal 19-6BB (PJ 19)
Project:	S. Piceance	**TVD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Reference Site:	NWSE S19-T7S-R95W (PJ-19 Pad)	**MD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Daybreak Federal 19-6BB (PJ 19)	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	DD	**Database:**	EDM 5000.1 US Multi Users Db
Reference Design:	Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design NWSE S19-T7S-R95W (PJ-19 Pad) - Daybreak Federal 19-7 (PJ-19) - DD - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	66.74	29.1	67.8	73.8				
100.0	100.0	100.0	100.0	0.1	0.1	66.74	29.1	67.8	73.8	73.5	0.27	271.046	
200.0	200.0	200.0	200.0	0.3	0.3	66.74	29.1	67.8	73.8	73.2	0.62	118.773	CC, ES
300.0	300.0	297.4	297.4	0.5	0.5	113.21	31.5	68.6	76.5	75.5	0.98	78.261	
400.0	399.6	394.4	394.1	0.7	0.7	113.97	38.5	70.9	84.7	83.3	1.39	61.117	
500.0	498.8	490.5	489.4	1.0	1.0	114.91	50.1	74.8	98.2	96.3	1.88	52.251	
600.0	597.1	585.4	582.8	1.4	1.3	115.77	65.9	80.1	117.1	114.6	2.48	47.154	
700.0	694.3	678.6	673.6	1.8	1.7	116.43	85.7	86.7	141.2	138.0	3.21	44.041	
800.0	790.2	769.8	761.4	2.4	2.2	116.84	109.2	94.5	170.4	166.4	4.05	42.077	
854.6	841.9	818.7	808.0	2.7	2.4	116.96	123.4	99.3	188.4	183.9	4.54	41.464	
900.0	884.6	859.1	846.1	3.0	2.7	117.32	136.0	103.5	204.2	199.3	4.97	41.074	
1,000.0	978.8	952.6	934.2	3.6	3.2	117.82	165.8	113.4	239.6	233.6	5.95	40.258	
1,100.0	1,073.0	1,046.2	1,022.2	4.2	3.8	118.18	195.7	123.4	274.9	268.0	6.94	39.613	
1,200.0	1,167.2	1,139.7	1,110.3	4.8	4.4	118.47	225.6	133.4	310.3	302.4	7.94	39.093	
1,300.0	1,261.4	1,233.2	1,198.3	5.4	4.9	118.69	255.5	143.4	345.7	336.8	8.94	38.668	
1,400.0	1,355.5	1,326.7	1,286.4	6.0	5.5	118.87	285.4	153.4	381.1	371.1	9.95	38.316	
1,500.0	1,449.7	1,420.3	1,374.4	6.7	6.1	119.03	315.3	163.4	416.5	405.5	10.95	38.021	
1,600.0	1,543.9	1,513.8	1,462.5	7.3	6.7	119.15	345.2	173.3	451.8	439.9	11.96	37.769	
1,700.0	1,638.1	1,607.3	1,550.6	7.9	7.2	119.26	375.1	183.3	487.2	474.2	12.97	37.553	
1,800.0	1,732.3	1,700.8	1,638.6	8.5	7.8	119.36	405.0	193.3	522.6	508.6	13.99	37.365	
1,900.0	1,826.5	1,794.4	1,726.7	9.2	8.4	119.44	434.9	203.3	558.0	543.0	15.00	37.201	
2,000.0	1,920.6	1,887.9	1,814.7	9.8	9.0	119.51	464.7	213.3	593.4	577.4	16.01	37.055	
2,100.0	2,014.8	1,981.4	1,902.8	10.4	9.5	119.58	494.6	223.2	628.8	611.8	17.03	36.926	
2,200.0	2,109.0	2,074.9	1,990.8	11.0	10.1	119.64	524.5	233.2	664.2	646.1	18.04	36.811	
2,300.0	2,203.2	2,168.5	2,078.9	11.7	10.7	119.69	554.4	243.2	699.6	680.5	19.06	36.706	
2,400.0	2,297.4	2,262.0	2,167.0	12.3	11.3	119.74	584.3	253.2	735.0	714.9	20.07	36.612	
2,500.0	2,391.6	2,355.5	2,255.0	12.9	11.8	119.78	614.2	263.2	770.3	749.3	21.09	36.527	
2,600.0	2,485.7	2,449.1	2,343.1	13.6	12.4	119.82	644.1	273.1	805.7	783.6	22.11	36.449	
2,700.0	2,579.9	2,542.6	2,431.1	14.2	13.0	119.85	674.0	283.1	841.1	818.0	23.12	36.377	
2,800.0	2,674.1	2,636.1	2,519.2	14.8	13.6	119.88	703.9	293.1	876.5	852.4	24.14	36.312	
2,900.0	2,768.3	2,729.6	2,607.3	15.4	14.1	119.92	733.8	303.1	911.9	886.8	25.16	36.251	
3,000.0	2,862.5	2,823.2	2,695.3	16.1	14.7	119.94	763.6	313.1	947.3	921.1	26.17	36.195	
3,100.0	2,956.7	2,916.7	2,783.4	16.7	15.3	119.97	793.5	323.0	982.7	955.5	27.19	36.143	
3,200.0	3,050.8	3,010.2	2,871.4	17.3	15.9	119.99	823.4	333.0	1,018.1	989.9	28.21	36.094	
3,300.0	3,145.0	3,103.7	2,959.5	17.9	16.4	120.02	853.3	343.0	1,053.5	1,024.3	29.22	36.049	
3,400.0	3,239.2	3,197.3	3,047.5	18.6	17.0	120.04	883.2	353.0	1,088.9	1,058.6	30.24	36.006	
3,500.0	3,333.4	3,290.8	3,135.6	19.2	17.6	120.06	913.1	363.0	1,124.3	1,093.0	31.26	35.967	
3,600.0	3,427.6	3,404.2	3,242.8	19.8	18.2	120.15	947.9	374.6	1,159.0	1,126.7	32.34	35.843	
3,628.3	3,454.2	3,438.0	3,275.1	20.0	18.4	120.21	957.6	377.8	1,168.5	1,135.9	32.63	35.808	
3,700.0	3,522.1	3,524.3	3,358.0	20.4	18.8	120.81	980.5	385.5	1,191.4	1,158.0	33.41	35.656	
3,800.0	3,617.6	3,646.7	3,476.6	21.0	19.4	121.60	1,008.9	395.0	1,220.0	1,185.6	34.39	35.471	
3,900.0	3,714.1	3,770.9	3,598.2	21.4	19.8	122.32	1,032.9	403.0	1,244.8	1,209.5	35.26	35.303	
4,000.0	3,811.4	3,896.7	3,722.4	21.8	20.2	123.01	1,052.0	409.3	1,265.5	1,229.5	36.00	35.151	
4,100.0	3,909.5	4,023.7	3,848.5	22.2	20.5	123.65	1,066.0	414.0	1,282.3	1,245.7	36.61	35.027	
4,200.0	4,008.2	4,151.4	3,975.9	22.5	20.7	124.27	1,074.8	417.0	1,294.9	1,257.9	37.08	34.922	
4,300.0	4,107.4	4,279.7	4,104.1	22.7	20.8	124.86	1,078.1	418.1	1,303.5	1,266.0	37.42	34.832	
4,400.0	4,207.0	4,382.6	4,207.0	22.9	20.8	125.28	1,078.1	418.1	1,308.7	1,271.0	37.67	34.741	
4,500.0	4,306.8	4,482.4	4,306.8	23.0	20.9	125.53	1,078.1	418.1	1,311.9	1,274.1	37.87	34.644	
4,600.0	4,406.8	4,582.4	4,406.8	23.1	21.0	125.63	1,078.1	418.1	1,313.2	1,275.1	38.02	34.539	
4,610.2	4,417.0	4,592.6	4,417.0	23.1	21.0	79.45	1,078.1	418.1	1,313.2	1,275.1	38.03	34.526	
4,700.0	4,506.8	4,682.4	4,506.8	23.1	21.0	79.45	1,078.1	418.1	1,313.2	1,275.0	38.17	34.406	
4,800.0	4,606.8	4,782.4	4,606.8	23.2	21.1	79.45	1,078.1	418.1	1,313.2	1,274.9	38.32	34.271	

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

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Daybreak Federal 19-6BB (PJ 19)
Project:	S. Piceance	**TVD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Reference Site:	NWSE S19-T7S-R95W (PJ-19 Pad)	**MD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Daybreak Federal 19-6BB (PJ 19)	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	DD	**Database:**	EDM 5000.1 US Multi Users Db
Reference Design:	Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design NWSE S19-T7S-R95W (PJ-19 Pad) - Daybreak Federal 19-7 (PJ-19) - DD - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
4,900.0	4,706.8	4,882.4	4,706.8	23.3	21.2	79.45	1,078.1	418.1	1,313.2	1,274.7	38.47	34.134	
5,000.0	4,806.8	4,982.4	4,806.8	23.3	21.2	79.45	1,078.1	418.1	1,313.2	1,274.5	38.63	33.997	
5,100.0	4,906.8	5,082.4	4,906.8	23.4	21.3	79.45	1,078.1	418.1	1,313.2	1,274.4	38.78	33.858	
5,200.0	5,006.8	5,182.4	5,006.8	23.4	21.4	79.45	1,078.1	418.1	1,313.2	1,274.2	38.94	33.719	
5,300.0	5,106.8	5,282.4	5,106.8	23.5	21.5	79.45	1,078.1	418.1	1,313.2	1,274.1	39.11	33.578	
5,400.0	5,206.8	5,382.4	5,206.8	23.6	21.5	79.45	1,078.1	418.1	1,313.2	1,273.9	39.27	33.437	
5,500.0	5,306.8	5,482.4	5,306.8	23.7	21.6	79.45	1,078.1	418.1	1,313.2	1,273.7	39.44	33.295	
5,600.0	5,406.8	5,582.4	5,406.8	23.7	21.7	79.45	1,078.1	418.1	1,313.2	1,273.6	39.61	33.152	
5,700.0	5,506.8	5,682.4	5,506.8	23.8	21.8	79.45	1,078.1	418.1	1,313.2	1,273.4	39.78	33.008	
5,800.0	5,606.8	5,782.4	5,606.8	23.9	21.8	79.45	1,078.1	418.1	1,313.2	1,273.2	39.96	32.863	
5,900.0	5,706.8	5,882.4	5,706.8	23.9	21.9	79.45	1,078.1	418.1	1,313.2	1,273.0	40.14	32.718	
6,000.0	5,806.8	5,982.4	5,806.8	24.0	22.0	79.45	1,078.1	418.1	1,313.2	1,272.9	40.31	32.573	
6,100.0	5,906.8	6,082.4	5,906.8	24.1	22.1	79.45	1,078.1	418.1	1,313.2	1,272.7	40.50	32.427	
6,200.0	6,006.8	6,182.4	6,006.8	24.2	22.2	79.45	1,078.1	418.1	1,313.2	1,272.5	40.68	32.280	
6,247.2	6,054.0	6,229.6	6,054.0	24.2	22.2	79.45	1,078.1	418.1	1,313.2	1,272.4	40.77	32.211	
6,300.0	6,106.8	6,282.4	6,106.8	24.3	22.3	79.45	1,078.1	418.1	1,313.2	1,272.3	40.87	32.134	
6,347.2	6,154.0	6,329.6	6,154.0	24.3	22.3	79.45	1,078.1	418.1	1,313.2	1,272.2	40.95	32.064	SF

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Daybreak Federal 19-6BB (PJ 19)
Project:	S. Piceance	**TVD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Reference Site:	NWSE S19-T7S-R95W (PJ-19 Pad)	**MD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Daybreak Federal 19-6BB (PJ 19)	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	DD	**Database:**	EDM 5000.1 US Multi Users Db
Reference Design:	Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design NWSE S19-T7S-R95W (PJ-19 Pad) - Daybreak Federal 19-7BB (PJ-19) - DD - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	64.59	25.5	53.7	59.4				
100.0	100.0	100.0	100.0	0.1	0.1	64.59	25.5	53.7	59.4	59.2	0.27	218.255	
200.0	200.0	200.0	200.0	0.3	0.3	64.59	25.5	53.7	59.4	58.8	0.62	95.640	CC, ES
300.0	300.0	300.0	300.0	0.5	0.5	113.06	25.5	53.7	60.4	59.4	0.98	61.796	
400.0	399.6	399.6	399.6	0.7	0.7	119.44	25.5	53.7	63.9	62.5	1.36	46.981	
500.0	498.8	498.8	498.8	1.0	0.8	128.40	25.5	53.7	71.2	69.5	1.77	40.316	
600.0	597.1	596.3	596.3	1.4	1.0	136.16	27.9	54.2	84.3	82.1	2.19	38.534	
700.0	694.3	693.5	693.2	1.8	1.2	140.65	35.1	55.7	103.1	100.4	2.65	38.923	
800.0	790.2	790.1	788.9	2.4	1.4	142.72	47.0	58.1	126.8	123.6	3.19	39.768	
854.6	841.9	842.4	840.5	2.7	1.6	143.14	55.5	59.9	141.6	138.1	3.53	40.137	
900.0	884.6	885.7	883.1	3.0	1.7	143.35	63.5	61.5	154.6	150.7	3.83	40.373	
1,000.0	978.8	981.0	976.0	3.6	2.1	142.59	84.5	65.9	183.2	178.6	4.59	39.899	
1,100.0	1,073.0	1,075.8	1,067.1	4.2	2.6	140.70	109.9	71.1	212.2	206.7	5.49	38.681	
1,200.0	1,167.2	1,170.6	1,157.3	4.8	3.0	138.43	138.4	77.0	241.8	235.4	6.46	37.447	
1,300.0	1,261.4	1,265.7	1,247.8	5.4	3.5	136.61	167.2	82.9	271.8	264.3	7.45	36.476	
1,400.0	1,355.5	1,360.8	1,338.2	6.0	4.1	135.15	196.0	88.9	301.9	293.4	8.45	35.715	
1,500.0	1,449.7	1,454.0	1,426.6	6.7	4.6	133.85	224.9	94.9	332.3	322.8	9.49	35.006	
1,600.0	1,543.9	1,544.7	1,511.3	7.3	5.2	132.14	256.7	101.4	363.8	353.2	10.61	34.280	
1,700.0	1,638.1	1,633.6	1,592.7	7.9	5.9	130.11	291.6	108.6	396.8	385.0	11.81	33.603	
1,800.0	1,732.3	1,720.5	1,670.6	8.5	6.5	127.87	329.4	116.4	431.5	418.4	13.06	33.045	
1,900.0	1,826.5	1,805.1	1,744.6	9.2	7.3	125.52	369.4	124.7	468.2	453.8	14.34	32.646	
2,000.0	1,920.6	1,887.1	1,814.6	9.8	8.1	123.14	411.2	133.3	507.0	491.4	15.65	32.405	
2,100.0	2,014.8	1,966.9	1,881.0	10.4	8.8	120.77	454.7	142.3	548.3	531.4	16.95	32.358	
2,200.0	2,109.0	2,054.5	1,952.8	11.0	9.7	118.36	503.7	152.4	591.2	572.9	18.29	32.320	SF
2,300.0	2,203.2	2,142.0	2,024.6	11.7	10.6	116.25	552.6	162.5	634.9	615.3	19.61	32.383	
2,400.0	2,297.4	2,229.5	2,096.5	12.3	11.5	114.41	601.6	172.7	679.3	658.4	20.89	32.512	
2,500.0	2,391.6	2,317.0	2,168.3	12.9	12.3	112.78	650.6	182.8	724.1	701.9	22.15	32.684	
2,600.0	2,485.7	2,404.5	2,240.1	13.6	13.2	111.34	699.6	192.9	769.4	746.0	23.40	32.884	
2,700.0	2,579.9	2,492.0	2,311.9	14.2	14.1	110.05	748.5	203.0	815.0	790.4	24.62	33.100	
2,800.0	2,674.1	2,579.5	2,383.7	14.8	15.0	108.90	797.5	213.1	860.9	835.1	25.83	33.325	
2,900.0	2,768.3	2,667.1	2,455.6	15.4	15.9	107.86	846.5	223.2	907.1	880.1	27.03	33.555	
3,000.0	2,862.5	2,754.6	2,527.4	16.1	16.8	106.92	895.5	233.3	953.5	925.3	28.22	33.785	
3,100.0	2,956.7	2,842.1	2,599.2	16.7	17.6	106.06	944.4	243.4	1,000.1	970.7	29.40	34.013	
3,200.0	3,050.8	2,929.6	2,671.0	17.3	18.5	105.28	993.4	253.6	1,046.9	1,016.3	30.58	34.237	
3,300.0	3,145.0	3,017.1	2,742.8	17.9	19.4	104.57	1,042.4	263.7	1,093.8	1,062.0	31.74	34.457	
3,400.0	3,239.2	3,104.6	2,814.6	18.6	20.3	103.91	1,091.4	273.8	1,140.8	1,107.9	32.90	34.670	
3,500.0	3,333.4	3,192.1	2,886.5	19.2	21.2	103.30	1,140.3	283.9	1,187.9	1,153.9	34.06	34.878	
3,600.0	3,427.6	3,279.6	2,958.3	19.8	22.1	102.74	1,189.3	294.0	1,235.2	1,200.0	35.21	35.079	
3,628.3	3,454.2	3,304.4	2,978.6	20.0	22.3	102.59	1,203.2	296.9	1,248.6	1,213.0	35.54	35.135	
3,700.0	3,522.1	3,367.1	3,030.1	20.4	23.0	102.93	1,238.3	304.1	1,282.3	1,245.8	36.48	35.148	
3,800.0	3,617.6	3,454.5	3,101.8	21.0	23.9	103.27	1,287.2	314.2	1,328.9	1,291.2	37.73	35.220	
3,900.0	3,714.1	3,541.7	3,173.3	21.4	24.7	103.50	1,335.9	324.3	1,375.0	1,336.1	38.90	35.344	
4,000.0	3,811.4	3,628.5	3,244.6	21.8	25.6	103.62	1,384.5	334.3	1,420.6	1,380.6	40.00	35.516	
4,100.0	3,909.5	3,714.9	3,315.5	22.2	26.5	103.65	1,432.9	344.3	1,465.7	1,424.7	41.01	35.739	
4,200.0	4,008.2	3,800.8	3,386.0	22.5	27.4	103.59	1,480.9	354.2	1,510.5	1,468.6	41.95	36.012	
4,300.0	4,107.4	4,008.4	3,562.4	22.7	29.2	102.20	1,588.0	376.3	1,551.8	1,508.6	43.20	35.918	
4,400.0	4,207.0	4,241.7	3,773.3	22.9	30.9	100.96	1,685.2	396.4	1,585.0	1,540.8	44.25	35.820	
4,500.0	4,306.8	4,495.6	4,014.8	23.0	32.3	99.98	1,761.4	412.1	1,608.9	1,563.9	45.03	35.729	
4,600.0	4,406.8	4,764.9	4,279.8	23.1	33.0	99.33	1,807.3	421.6	1,622.3	1,576.9	45.48	35.670	
4,610.2	4,417.0	4,792.9	4,307.6	23.1	33.1	53.10	1,810.0	422.2	1,623.1	1,577.6	45.52	35.660	
4,700.0	4,506.8	4,992.3	4,506.8	23.1	33.2	52.92	1,817.5	423.7	1,625.2	1,579.5	45.68	35.576	
4,800.0	4,606.8	5,092.3	4,606.8	23.2	33.3	52.92	1,817.5	423.7	1,625.2	1,579.4	45.81	35.475	

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

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Daybreak Federal 19-6BB (PJ 19)
Project:	S. Piceance	**TVD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Reference Site:	NWSE S19-T7S-R95W (PJ-19 Pad)	**MD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Daybreak Federal 19-6BB (PJ 19)	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	DD	**Database:**	EDM 5000.1 US Multi Users Db
Reference Design:	Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design NWSE S19-T7S-R95W (PJ-19 Pad) - Daybreak Federal 19-7BB (PJ-19) - DD - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
4,900.0	4,706.8	5,192.3	4,706.8	23.3	33.3	52.92	1,817.5	423.7	1,625.2	1,579.2	45.94	35.373	
5,000.0	4,806.8	5,292.3	4,806.8	23.3	33.4	52.92	1,817.5	423.7	1,625.2	1,579.1	46.08	35.270	
5,100.0	4,906.8	5,392.3	4,906.8	23.4	33.4	52.92	1,817.5	423.7	1,625.2	1,579.0	46.22	35.165	
5,200.0	5,006.8	5,492.3	5,006.8	23.4	33.5	52.92	1,817.5	423.7	1,625.2	1,578.8	46.35	35.060	
5,300.0	5,106.8	5,592.3	5,106.8	23.5	33.5	52.92	1,817.5	423.7	1,625.2	1,578.7	46.50	34.954	
5,400.0	5,206.8	5,692.3	5,206.8	23.6	33.6	52.92	1,817.5	423.7	1,625.2	1,578.5	46.64	34.846	
5,500.0	5,306.8	5,792.3	5,306.8	23.7	33.6	52.92	1,817.5	423.7	1,625.2	1,578.4	46.78	34.738	
5,600.0	5,406.8	5,892.3	5,406.8	23.7	33.7	52.92	1,817.5	423.7	1,625.2	1,578.2	46.93	34.629	
5,700.0	5,506.8	5,992.3	5,506.8	23.8	33.7	52.92	1,817.5	423.7	1,625.2	1,578.1	47.08	34.519	
5,800.0	5,606.8	6,092.3	5,606.8	23.9	33.8	52.92	1,817.5	423.7	1,625.2	1,577.9	47.23	34.408	
5,900.0	5,706.8	6,192.3	5,706.8	23.9	33.9	52.92	1,817.5	423.7	1,625.2	1,577.8	47.39	34.296	
6,000.0	5,806.8	6,292.3	5,806.8	24.0	33.9	52.92	1,817.5	423.7	1,625.2	1,577.6	47.54	34.183	
6,100.0	5,906.8	6,392.3	5,906.8	24.1	34.0	52.92	1,817.5	423.7	1,625.2	1,577.5	47.70	34.070	
6,200.0	6,006.8	6,492.3	6,006.8	24.2	34.0	52.92	1,817.5	423.7	1,625.2	1,577.3	47.86	33.956	
6,247.2	6,054.0	6,539.5	6,054.0	24.2	34.0	52.92	1,817.5	423.7	1,625.2	1,577.2	47.94	33.902	
6,300.0	6,106.8	6,592.3	6,106.8	24.3	34.1	52.92	1,817.5	423.7	1,625.2	1,577.2	48.02	33.842	
6,347.2	6,154.0	6,639.5	6,154.0	24.3	34.1	52.92	1,817.5	423.7	1,625.2	1,577.1	48.10	33.788	

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Daybreak Federal 19-6BB (PJ 19)
Project:	S. Piceance	**TVD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Reference Site:	NWSE S19-T7S-R95W (PJ-19 Pad)	**MD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Daybreak Federal 19-6BB (PJ 19)	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	DD	**Database:**	EDM 5000.1 US Multi Users Db
Reference Design:	Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design NWSE S19-T7S-R95W (PJ-19 Pad) - Daybreak Federal 19-7C (PJ-19) - DD - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	70.62	21.9	62.2	65.9				
100.0	100.0	100.0	100.0	0.1	0.1	70.62	21.9	62.2	65.9	65.6	0.27	241.971	
200.0	200.0	200.0	200.0	0.3	0.3	70.62	21.9	62.2	65.9	65.3	0.62	106.032	CC, ES
300.0	300.0	300.0	300.0	0.5	0.5	118.76	21.9	62.2	67.1	66.1	0.98	68.702	
400.0	399.6	399.6	399.6	0.7	0.7	124.19	21.9	62.2	71.2	69.9	1.36	52.534	
500.0	498.8	498.8	498.8	1.0	0.8	131.79	21.9	62.2	79.3	77.6	1.76	45.139	
600.0	597.1	597.1	597.1	1.4	1.0	139.92	21.9	62.2	92.5	90.4	2.16	42.828	
700.0	694.3	694.3	694.3	1.8	1.2	147.29	21.9	62.2	111.5	109.0	2.55	43.816	
800.0	790.2	790.4	790.4	2.4	1.3	153.17	22.3	62.3	136.5	133.6	2.91	46.918	
854.6	841.9	842.7	842.7	2.7	1.4	155.25	24.0	62.7	152.3	149.2	3.11	48.975	
900.0	884.6	886.3	886.2	3.0	1.5	156.54	26.6	63.3	166.1	162.8	3.29	50.506	
1,000.0	978.8	981.6	981.2	3.6	1.7	158.20	33.8	65.1	196.3	192.6	3.70	53.093	
1,100.0	1,073.0	1,076.8	1,076.1	4.2	1.9	159.40	41.0	66.9	226.6	222.5	4.11	55.151	
1,200.0	1,167.2	1,172.1	1,171.1	4.8	2.1	160.32	48.3	68.7	256.9	252.4	4.52	56.825	
1,300.0	1,261.4	1,269.4	1,268.0	5.4	2.3	160.80	56.9	70.9	287.1	282.2	4.97	57.759	
1,400.0	1,355.5	1,368.0	1,365.6	6.0	2.6	160.30	70.3	74.3	316.4	310.9	5.51	57.402	
1,500.0	1,449.7	1,466.8	1,462.6	6.7	2.9	159.01	88.6	78.8	344.8	338.6	6.17	55.918	
1,600.0	1,543.9	1,565.1	1,558.0	7.3	3.3	157.13	111.7	84.6	372.5	365.6	6.95	53.589	
1,700.0	1,638.1	1,662.5	1,651.1	7.9	3.7	154.80	139.2	91.4	400.1	392.2	7.88	50.759	
1,800.0	1,732.3	1,758.4	1,741.4	8.5	4.3	152.14	170.7	99.3	427.8	418.9	8.96	47.764	
1,900.0	1,826.5	1,852.5	1,828.2	9.2	4.9	149.24	205.9	108.1	456.3	446.1	10.17	44.879	
2,000.0	1,920.6	1,944.3	1,911.1	9.8	5.5	146.19	244.2	117.7	485.9	474.4	11.49	42.283	
2,100.0	2,014.8	2,033.6	1,989.7	10.4	6.3	143.07	285.0	127.9	517.1	504.2	12.90	40.077	
2,200.0	2,109.0	2,121.0	2,064.9	11.0	7.0	139.93	328.4	138.7	550.3	535.9	14.37	38.292	
2,300.0	2,203.2	2,210.1	2,141.0	11.7	7.8	136.96	373.4	149.9	585.2	569.4	15.85	36.913	
2,400.0	2,297.4	2,299.3	2,217.1	12.3	8.6	134.30	418.4	161.2	621.5	604.2	17.31	35.897	
2,500.0	2,391.6	2,388.4	2,293.2	12.9	9.4	131.92	463.4	172.4	658.9	640.2	18.75	35.146	
2,600.0	2,485.7	2,477.5	2,369.3	13.6	10.2	129.78	508.4	183.7	697.3	677.1	20.16	34.594	
2,700.0	2,579.9	2,566.6	2,445.4	14.2	11.0	127.85	553.4	194.9	736.4	714.9	21.54	34.192	
2,800.0	2,674.1	2,655.7	2,521.5	14.8	11.8	126.10	598.4	206.2	776.3	753.4	22.90	33.902	
2,900.0	2,768.3	2,744.8	2,597.6	15.4	12.6	124.52	643.4	217.4	816.7	792.4	24.23	33.699	
3,000.0	2,862.5	2,833.9	2,673.7	16.1	13.4	123.08	688.4	228.6	857.6	832.0	25.55	33.562	
3,100.0	2,956.7	2,923.0	2,749.7	16.7	14.2	121.77	733.4	239.9	898.9	872.1	26.85	33.476	
3,200.0	3,050.8	3,012.2	2,825.8	17.3	15.1	120.57	778.4	251.1	940.6	912.5	28.14	33.430	
3,300.0	3,145.0	3,101.3	2,901.9	17.9	15.9	119.47	823.4	262.4	982.7	953.2	29.41	33.415	
3,400.0	3,239.2	3,190.4	2,978.0	18.6	16.7	118.45	868.4	273.6	1,025.0	994.3	30.67	33.424	
3,500.0	3,333.4	3,279.5	3,054.1	19.2	17.5	117.51	913.4	284.8	1,067.5	1,035.6	31.91	33.453	
3,600.0	3,427.6	3,368.6	3,130.2	19.8	18.4	116.65	958.4	296.1	1,110.3	1,077.2	33.15	33.496	
3,628.3	3,454.2	3,393.8	3,151.7	20.0	18.6	116.41	971.1	299.3	1,122.5	1,089.0	33.50	33.510	
3,700.0	3,522.1	3,457.8	3,206.3	20.4	19.2	116.41	1,003.4	307.3	1,153.0	1,118.6	34.41	33.503	
3,800.0	3,617.6	3,547.0	3,282.5	21.0	20.0	116.29	1,048.4	318.6	1,194.5	1,158.8	35.64	33.517	
3,900.0	3,714.1	3,636.1	3,358.6	21.4	20.8	116.06	1,093.5	329.8	1,234.9	1,198.1	36.80	33.554	
4,000.0	3,811.4	3,725.2	3,434.6	21.8	21.6	115.73	1,138.4	341.1	1,274.3	1,236.4	37.90	33.619	
4,100.0	3,909.5	3,853.6	3,545.6	22.2	22.8	114.88	1,201.1	356.7	1,311.8	1,272.7	39.15	33.506	
4,200.0	4,008.2	4,009.9	3,685.9	22.5	23.9	113.92	1,267.7	373.4	1,344.4	1,304.1	40.36	33.307	
4,300.0	4,107.4	4,175.4	3,840.2	22.7	25.0	113.11	1,325.9	387.9	1,371.2	1,329.9	41.38	33.138	
4,400.0	4,207.0	4,349.0	4,006.8	22.9	25.8	112.46	1,372.7	399.6	1,391.8	1,349.6	42.18	32.993	
4,500.0	4,306.8	4,528.9	4,183.5	23.0	26.4	111.99	1,405.5	407.8	1,405.5	1,362.7	42.76	32.873	
4,600.0	4,406.8	4,712.8	4,366.6	23.1	26.7	111.71	1,422.2	411.9	1,412.1	1,369.0	43.08	32.780	
4,610.2	4,417.0	4,731.7	4,385.4	23.1	26.7	65.52	1,423.0	412.1	1,412.4	1,369.3	43.10	32.773	
4,700.0	4,506.8	4,853.1	4,506.8	23.1	26.7	65.48	1,424.2	412.4	1,412.8	1,369.5	43.23	32.680	
4,800.0	4,606.8	4,953.1	4,606.8	23.2	26.8	65.48	1,424.2	412.4	1,412.8	1,369.4	43.37	32.578	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Daybreak Federal 19-6BB (PJ 19)
Project:	S. Piceance	**TVD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Reference Site:	NWSE S19-T7S-R95W (PJ-19 Pad)	**MD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Daybreak Federal 19-6BB (PJ 19)	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	DD	**Database:**	EDM 5000.1 US Multi Users Db
Reference Design:	Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design NWSE S19-T7S-R95W (PJ-19 Pad) - Daybreak Federal 19-7C (PJ-19) - DD - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
4,900.0	4,706.8	5,053.1	4,706.8	23.3	26.8	65.48	1,424.2	412.4	1,412.8	1,369.3	43.50	32.475	
5,000.0	4,806.8	5,153.1	4,806.8	23.3	26.9	65.48	1,424.2	412.4	1,412.8	1,369.1	43.64	32.371	
5,100.0	4,906.8	5,253.1	4,906.8	23.4	27.0	65.48	1,424.2	412.4	1,412.8	1,369.0	43.79	32.265	
5,200.0	5,006.8	5,353.1	5,006.8	23.4	27.0	65.48	1,424.2	412.4	1,412.8	1,368.8	43.93	32.159	
5,300.0	5,106.8	5,453.1	5,106.8	23.5	27.1	65.48	1,424.2	412.4	1,412.8	1,368.7	44.08	32.052	
5,400.0	5,206.8	5,553.1	5,206.8	23.6	27.1	65.48	1,424.2	412.4	1,412.8	1,368.6	44.23	31.944	
5,500.0	5,306.8	5,653.1	5,306.8	23.7	27.2	65.48	1,424.2	412.4	1,412.8	1,368.4	44.38	31.835	
5,600.0	5,406.8	5,753.1	5,406.8	23.7	27.3	65.48	1,424.2	412.4	1,412.8	1,368.2	44.53	31.725	
5,700.0	5,506.8	5,853.1	5,506.8	23.8	27.3	65.48	1,424.2	412.4	1,412.8	1,368.1	44.69	31.615	
5,800.0	5,606.8	5,953.1	5,606.8	23.9	27.4	65.48	1,424.2	412.4	1,412.8	1,367.9	44.85	31.503	
5,900.0	5,706.8	6,053.1	5,706.8	23.9	27.5	65.48	1,424.2	412.4	1,412.8	1,367.8	45.01	31.391	
6,000.0	5,806.8	6,153.1	5,806.8	24.0	27.5	65.48	1,424.2	412.4	1,412.8	1,367.6	45.17	31.278	
6,100.0	5,906.8	6,253.1	5,906.8	24.1	27.6	65.48	1,424.2	412.4	1,412.8	1,367.4	45.33	31.165	
6,200.0	6,006.8	6,353.1	6,006.8	24.2	27.7	65.48	1,424.2	412.4	1,412.8	1,367.3	45.50	31.051	
6,247.2	6,054.0	6,400.3	6,054.0	24.2	27.7	65.48	1,424.2	412.4	1,412.8	1,367.2	45.58	30.997	
6,300.0	6,106.8	6,453.1	6,106.8	24.3	27.7	65.48	1,424.2	412.4	1,412.8	1,367.1	45.67	30.936	
6,347.2	6,154.0	6,500.3	6,154.0	24.3	27.8	65.48	1,424.2	412.4	1,412.8	1,367.0	45.75	30.882	SF

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Daybreak Federal 19-6BB (PJ 19)
Project:	S. Piceance	**TVD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Reference Site:	NWSE S19-T7S-R95W (PJ-19 Pad)	**MD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Daybreak Federal 19-6BB (PJ 19)	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	DD	**Database:**	EDM 5000.1 US Multi Users Db
Reference Design:	Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design NWSE S19-T7S-R95W (PJ-19 Pad) - Daybreak Federal 19-8 (PJ-19) - DD - Plan #1 — **Offset Site Error:** 0.0 ft

Survey Program: 0-MWD — **Offset Well Error:** 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	66.74	43.7	101.7	110.7				
100.0	100.0	100.0	100.0	0.1	0.1	66.74	43.7	101.7	110.7	110.4	0.27	406.566	
200.0	200.0	200.0	200.0	0.3	0.3	66.74	43.7	101.7	110.7	110.1	0.62	178.158	CC, ES
300.0	300.0	294.7	294.7	0.5	0.5	113.56	45.3	103.4	114.0	113.1	0.97	117.640	
400.0	399.6	388.7	388.4	0.7	0.7	115.24	50.2	108.4	124.2	122.8	1.35	91.822	
500.0	498.8	481.2	480.2	1.0	0.9	117.44	58.1	116.6	141.1	139.4	1.79	78.740	
600.0	597.1	571.6	569.3	1.4	1.3	119.65	68.7	127.6	165.1	162.7	2.31	71.591	
700.0	694.3	659.3	654.8	1.8	1.6	121.55	81.9	141.2	195.8	192.9	2.90	67.550	
800.0	790.2	743.7	736.4	2.4	2.0	122.99	97.1	157.0	233.1	229.5	3.57	65.252	
854.6	841.9	788.2	779.0	2.7	2.3	123.58	106.1	166.4	256.1	252.1	3.96	64.626	
900.0	884.6	824.6	813.5	3.0	2.5	124.45	114.0	174.5	276.3	272.0	4.30	64.211	
1,000.0	978.8	900.0	884.4	3.6	3.0	125.66	131.8	193.0	323.2	318.1	5.06	63.923	
1,100.0	1,073.0	978.8	957.4	4.2	3.6	126.28	152.5	214.4	372.9	367.0	5.86	63.600	
1,200.0	1,167.2	1,052.1	1,024.1	4.8	4.1	126.44	173.6	236.2	425.2	418.5	6.68	63.679	
1,300.0	1,261.4	1,127.1	1,091.2	5.4	4.8	126.33	196.8	260.3	479.9	472.4	7.51	63.866	
1,400.0	1,355.5	1,210.4	1,165.5	6.0	5.5	126.17	223.1	287.5	535.2	526.8	8.39	63.759	
1,500.0	1,449.7	1,293.8	1,239.7	6.7	6.2	126.05	249.4	314.8	590.5	581.2	9.28	63.640	
1,600.0	1,543.9	1,377.1	1,314.0	7.3	6.9	125.94	275.7	342.0	645.7	635.6	10.17	63.520	
1,700.0	1,638.1	1,446.9	1,375.9	7.9	7.5	125.83	298.0	365.1	701.6	690.6	11.01	63.704	
1,800.0	1,732.3	1,500.0	1,422.2	8.5	8.0	125.67	316.0	383.8	759.6	747.8	11.79	64.438	
1,900.0	1,826.5	1,569.8	1,482.0	9.2	8.7	125.35	341.0	409.7	819.5	806.8	12.67	64.675	
2,000.0	1,920.6	1,627.7	1,530.6	9.8	9.3	125.02	362.9	432.3	881.4	867.9	13.50	65.286	
2,100.0	2,014.8	1,683.2	1,576.3	10.4	9.9	124.65	384.8	455.1	945.3	930.9	14.33	65.970	
2,200.0	2,109.0	1,736.5	1,619.2	11.0	10.5	124.26	406.7	477.8	1,010.9	995.7	15.15	66.713	
2,300.0	2,203.2	1,794.1	1,664.7	11.7	11.2	123.82	431.3	503.2	1,078.1	1,062.1	16.00	67.372	
2,400.0	2,297.4	1,867.4	1,722.3	12.3	12.1	123.29	462.7	535.8	1,145.8	1,128.8	16.94	67.652	
2,500.0	2,391.6	1,940.6	1,779.8	12.9	12.9	122.82	494.2	568.3	1,213.5	1,195.6	17.87	67.918	
2,600.0	2,485.7	2,013.8	1,837.4	13.6	13.8	122.40	525.7	600.9	1,281.3	1,262.5	18.80	68.169	
2,700.0	2,579.9	2,087.0	1,894.9	14.2	14.7	122.02	557.1	633.5	1,349.1	1,329.3	19.72	68.405	
2,800.0	2,674.1	2,160.3	1,952.5	14.8	15.5	121.68	588.6	666.1	1,416.9	1,396.2	20.65	68.628	
2,900.0	2,768.3	2,233.5	2,010.0	15.4	16.4	121.37	620.0	698.6	1,484.7	1,463.2	21.57	68.838	
3,000.0	2,862.5	2,306.7	2,067.5	16.1	17.3	121.08	651.5	731.2	1,552.6	1,530.1	22.49	69.036	
3,100.0	2,956.7	2,379.9	2,125.1	16.7	18.2	120.82	682.9	763.8	1,620.5	1,597.1	23.41	69.222	
3,200.0	3,050.8	2,453.2	2,182.6	17.3	19.0	120.58	714.4	796.4	1,688.4	1,664.1	24.33	69.399	
3,300.0	3,145.0	2,526.4	2,240.2	17.9	19.9	120.36	745.8	829.0	1,756.4	1,731.1	25.25	69.566	
3,400.0	3,239.2	2,599.6	2,297.7	18.6	20.8	120.16	777.3	861.5	1,824.3	1,798.1	26.16	69.724	
3,500.0	3,333.4	2,672.8	2,355.3	19.2	21.6	119.97	808.7	894.1	1,892.3	1,865.2	27.08	69.874	
3,600.0	3,427.6	2,746.1	2,412.8	19.8	22.5	119.79	840.2	926.7	1,960.2	1,932.2	28.00	70.016	
3,628.3	3,454.2	2,766.8	2,429.1	20.0	22.7	119.74	849.1	935.9	1,979.4	1,951.2	28.26	70.055	
3,700.0	3,522.1	2,819.5	2,470.6	20.4	23.4	120.73	871.7	959.4	2,027.9	1,998.7	29.14	69.588	
3,800.0	3,617.6	2,893.9	2,529.0	21.0	24.3	121.96	903.7	992.5	2,094.2	2,063.9	30.33	69.060	
3,900.0	3,714.1	2,969.1	2,588.1	21.4	25.2	123.03	936.0	1,025.9	2,159.3	2,127.8	31.46	68.643	
4,000.0	3,811.4	3,045.1	2,647.8	21.8	26.1	123.97	968.6	1,059.7	2,222.9	2,190.4	32.53	68.326	
4,100.0	3,909.5	3,121.7	2,708.1	22.2	27.0	124.77	1,001.5	1,093.8	2,285.2	2,251.6	33.56	68.100	
4,200.0	4,008.2	3,198.9	2,768.7	22.5	27.9	125.46	1,034.7	1,128.1	2,346.0	2,311.4	34.52	67.961	
4,300.0	4,107.4	3,276.6	2,829.8	22.7	28.8	126.05	1,068.0	1,162.7	2,405.3	2,369.9	35.42	67.904	
4,400.0	4,207.0	3,354.6	2,891.1	22.9	29.7	126.54	1,101.5	1,197.4	2,463.2	2,426.9	36.26	67.928	
4,500.0	4,306.8	3,433.0	2,952.6	23.0	30.7	126.95	1,135.2	1,232.3	2,519.6	2,482.6	37.04	68.032	
4,600.0	4,406.8	3,511.5	3,014.4	23.1	31.6	127.28	1,168.9	1,267.2	2,574.6	2,536.9	37.74	68.217	
4,610.2	4,417.0	3,519.5	3,020.6	23.1	31.7	81.13	1,172.3	1,270.8	2,580.1	2,542.3	37.81	68.237	
4,700.0	4,506.8	3,590.1	3,076.1	23.1	32.6	80.48	1,202.7	1,302.2	2,628.9	2,590.6	38.22	68.784	
4,800.0	4,606.8	3,668.7	3,137.9	23.2	33.5	79.77	1,236.4	1,337.1	2,683.5	2,644.8	38.66	69.416	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Daybreak Federal 19-6BB (PJ 19)
Project:	S. Piceance	**TVD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Reference Site:	NWSE S19-T7S-R95W (PJ-19 Pad)	**MD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Daybreak Federal 19-6BB (PJ 19)	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	DD	**Database:**	EDM 5000.1 US Multi Users Db
Reference Design:	Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design NWSE S19-T7S-R95W (PJ-19 Pad) - Daybreak Federal 19-8 (PJ-19) - DD - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
4,900.0	4,706.8	3,747.2	3,199.6	23.3	34.4	79.10	1,270.2	1,372.1	2,738.3	2,699.3	39.08	70.070	
5,000.0	4,806.8	5,489.0	4,806.8	23.3	44.1	73.04	1,639.1	1,754.2	2,746.6	2,704.2	42.38	64.811	
5,100.0	4,906.8	5,589.0	4,906.8	23.4	44.1	73.04	1,639.1	1,754.2	2,746.6	2,704.1	42.53	64.581	
5,200.0	5,006.8	5,689.0	5,006.8	23.4	44.1	73.04	1,639.1	1,754.2	2,746.6	2,703.9	42.68	64.349	
5,300.0	5,106.8	5,789.0	5,106.8	23.5	44.2	73.04	1,639.1	1,754.2	2,746.6	2,703.8	42.84	64.114	
5,400.0	5,206.8	5,889.0	5,206.8	23.6	44.2	73.04	1,639.1	1,754.2	2,746.6	2,703.6	43.00	63.879	
5,500.0	5,306.8	5,989.0	5,306.8	23.7	44.2	73.04	1,639.1	1,754.2	2,746.6	2,703.5	43.16	63.641	
5,600.0	5,406.8	6,089.0	5,406.8	23.7	44.3	73.04	1,639.1	1,754.2	2,746.6	2,703.3	43.32	63.402	
5,700.0	5,506.8	6,189.0	5,506.8	23.8	44.3	73.04	1,639.1	1,754.2	2,746.6	2,703.1	43.49	63.162	
5,800.0	5,606.8	6,289.0	5,606.8	23.9	44.4	73.04	1,639.1	1,754.2	2,746.6	2,703.0	43.65	62.921	
5,900.0	5,706.8	6,389.0	5,706.8	23.9	44.4	73.04	1,639.1	1,754.2	2,746.6	2,702.8	43.82	62.678	
6,000.0	5,806.8	6,489.0	5,806.8	24.0	44.5	73.04	1,639.1	1,754.2	2,746.6	2,702.6	43.99	62.434	
6,100.0	5,906.8	6,589.0	5,906.8	24.1	44.5	73.04	1,639.1	1,754.2	2,746.6	2,702.5	44.17	62.189	
6,200.0	6,006.8	6,689.0	6,006.8	24.2	44.6	73.04	1,639.1	1,754.2	2,746.6	2,702.3	44.34	61.943	
6,247.2	6,054.0	6,736.2	6,054.0	24.2	44.6	73.04	1,639.1	1,754.2	2,746.6	2,702.2	44.42	61.826	
6,300.0	6,106.8	6,789.0	6,106.8	24.3	44.6	73.04	1,639.1	1,754.2	2,746.6	2,702.1	44.52	61.696	
6,347.2	6,154.0	6,836.2	6,154.0	24.3	44.6	73.04	1,639.1	1,754.2	2,746.6	2,702.0	44.60	61.579	SF

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Daybreak Federal 19-6BB (PJ 19)
Project:	S. Piceance	**TVD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Reference Site:	NWSE S19-T7S-R95W (PJ-19 Pad)	**MD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Daybreak Federal 19-6BB (PJ 19)	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	DD	**Database:**	EDM 5000.1 US Multi Users Db
Reference Design:	Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design NWSE S19-T7S-R95W (PJ-19 Pad) - Daybreak Federal 19-8BB (PJ-19) - DD - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	71.70	36.4	110.2	116.0				
100.0	100.0	100.0	100.0	0.1	0.1	71.70	36.4	110.2	116.0	115.8	0.27	426.196	
200.0	200.0	200.0	200.0	0.3	0.3	71.70	36.4	110.2	116.0	115.4	0.62	186.760	CC, ES
300.0	300.0	294.2	294.2	0.5	0.5	118.64	37.5	112.2	119.7	118.7	0.97	123.791	
400.0	399.6	387.5	387.2	0.7	0.7	120.62	40.8	118.3	130.8	129.5	1.34	97.627	
500.0	498.8	478.9	477.9	1.0	0.9	123.19	46.0	128.1	149.5	147.8	1.76	85.156	
600.0	597.1	567.7	565.4	1.4	1.2	125.74	53.1	141.3	176.0	173.7	2.22	79.105	
700.0	694.3	653.1	648.9	1.8	1.6	127.90	61.7	157.3	209.9	207.2	2.75	76.355	
800.0	790.2	734.6	727.7	2.4	2.0	129.54	71.5	175.7	251.1	247.8	3.33	75.358	
854.6	841.9	777.3	768.5	2.7	2.2	130.20	77.3	186.5	276.5	272.9	3.67	75.380	
900.0	884.6	811.9	801.5	3.0	2.4	131.15	82.3	195.8	298.8	294.9	3.95	75.578	
1,000.0	978.8	886.2	871.5	3.6	2.9	132.63	94.0	217.7	350.3	345.7	4.60	76.190	
1,100.0	1,073.0	957.6	937.9	4.2	3.4	133.49	106.5	240.9	404.7	399.5	5.26	76.938	
1,200.0	1,167.2	1,026.3	1,000.7	4.8	4.0	133.96	119.6	265.3	461.9	455.9	5.93	77.824	
1,300.0	1,261.4	1,100.0	1,067.1	5.4	4.6	134.17	134.8	293.6	521.5	514.9	6.65	78.476	
1,400.0	1,355.5	1,169.4	1,128.9	6.0	5.2	134.24	149.6	321.4	582.5	575.1	7.35	79.248	
1,500.0	1,449.7	1,248.6	1,199.4	6.7	5.9	134.31	166.6	353.1	643.5	635.4	8.09	79.513	
1,600.0	1,543.9	1,327.8	1,270.0	7.3	6.5	134.37	183.6	384.8	704.5	695.7	8.84	79.697	
1,700.0	1,638.1	1,400.0	1,334.4	7.9	7.2	134.41	199.1	413.7	765.6	756.0	9.56	80.043	
1,800.0	1,732.3	1,462.9	1,389.9	8.5	7.8	134.40	213.0	439.7	827.8	817.6	10.28	80.546	
1,900.0	1,826.5	1,520.8	1,440.2	9.2	8.3	134.31	226.6	465.0	892.0	881.1	10.97	81.297	
2,000.0	1,920.6	1,596.9	1,505.8	9.8	9.0	134.17	244.7	498.9	957.0	945.2	11.74	81.497	
2,100.0	2,014.8	1,672.9	1,571.5	10.4	9.8	134.05	262.9	532.7	1,021.9	1,009.4	12.51	81.663	
2,200.0	2,109.0	1,748.9	1,637.1	11.0	10.5	133.95	281.0	566.6	1,086.8	1,073.5	13.29	81.807	
2,300.0	2,203.2	1,825.0	1,702.7	11.7	11.3	133.85	299.2	600.4	1,151.8	1,137.7	14.06	81.931	
2,400.0	2,297.4	1,901.0	1,768.3	12.3	12.0	133.77	317.3	634.3	1,216.7	1,201.9	14.83	82.040	
2,500.0	2,391.6	1,977.0	1,833.9	12.9	12.7	133.69	335.5	668.1	1,281.6	1,266.0	15.60	82.134	
2,600.0	2,485.7	2,053.1	1,899.5	13.6	13.5	133.62	353.6	702.0	1,346.6	1,330.2	16.38	82.218	
2,700.0	2,579.9	2,129.1	1,965.1	14.2	14.2	133.56	371.8	735.9	1,411.5	1,394.4	17.15	82.293	
2,800.0	2,674.1	2,205.1	2,030.8	14.8	15.0	133.51	389.9	769.7	1,476.5	1,458.5	17.93	82.360	
2,900.0	2,768.3	2,281.2	2,096.4	15.4	15.7	133.45	408.1	803.6	1,541.4	1,522.7	18.70	82.420	
3,000.0	2,862.5	2,357.2	2,162.0	16.1	16.5	133.41	426.2	837.4	1,606.4	1,586.9	19.48	82.475	
3,100.0	2,956.7	2,433.2	2,227.6	16.7	17.2	133.36	444.4	871.3	1,671.3	1,651.1	20.25	82.525	
3,200.0	3,050.8	2,509.3	2,293.2	17.3	17.9	133.32	462.5	905.2	1,736.2	1,715.2	21.03	82.570	
3,300.0	3,145.0	2,585.3	2,358.8	17.9	18.7	133.28	480.7	939.0	1,801.2	1,779.4	21.80	82.612	
3,400.0	3,239.2	2,661.3	2,424.5	18.6	19.4	133.25	498.8	972.9	1,866.1	1,843.6	22.58	82.650	
3,500.0	3,333.4	2,737.4	2,490.1	19.2	20.2	133.22	517.0	1,006.7	1,931.1	1,907.7	23.35	82.685	
3,600.0	3,427.6	2,813.4	2,555.7	19.8	20.9	133.19	535.1	1,040.6	1,996.0	1,971.9	24.13	82.718	
3,628.3	3,454.2	2,834.9	2,574.2	20.0	21.1	133.18	540.3	1,050.2	2,014.4	1,990.1	24.35	82.727	
3,700.0	3,522.1	2,889.8	2,621.6	20.4	21.7	134.01	553.4	1,074.6	2,060.5	2,035.5	25.06	82.233	
3,800.0	3,617.6	2,967.7	2,688.8	21.0	22.4	135.02	571.9	1,109.3	2,123.2	2,097.2	26.01	81.644	
3,900.0	3,714.1	3,046.8	2,757.1	21.4	23.2	135.89	590.8	1,144.6	2,183.9	2,157.0	26.92	81.140	
4,000.0	3,811.4	3,127.3	2,826.5	21.8	24.0	136.62	610.0	1,180.4	2,242.7	2,214.9	27.79	80.714	
4,100.0	3,909.5	3,208.9	2,897.0	22.2	24.8	137.23	629.5	1,216.7	2,299.5	2,270.8	28.61	80.362	
4,200.0	4,008.2	3,291.6	2,968.3	22.5	25.6	137.73	649.3	1,253.5	2,354.1	2,324.7	29.40	80.083	
4,300.0	4,107.4	3,375.2	3,040.5	22.7	26.4	138.13	669.2	1,290.8	2,406.7	2,376.6	30.13	79.876	
4,400.0	4,207.0	3,459.8	3,113.5	22.9	27.3	138.44	689.4	1,328.4	2,457.2	2,426.4	30.81	79.743	
4,500.0	4,306.8	3,545.0	3,187.1	23.0	28.1	138.66	709.8	1,366.4	2,505.5	2,474.1	31.44	79.687	
4,600.0	4,406.8	3,631.0	3,261.2	23.1	28.9	138.81	730.3	1,404.7	2,551.7	2,519.7	32.01	79.711	
4,610.2	4,417.0	3,639.8	3,268.8	23.1	29.0	92.64	732.4	1,408.6	2,556.3	2,524.2	32.07	79.714	
4,700.0	4,506.8	3,717.3	3,335.7	23.1	29.8	92.15	750.9	1,443.1	2,596.7	2,564.3	32.47	79.969	
4,800.0	4,606.8	3,803.6	3,410.2	23.2	30.6	91.61	771.5	1,481.6	2,641.9	2,609.0	32.91	80.277	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Daybreak Federal 19-6BB (PJ 19)
Project:	S. Piceance	**TVD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Reference Site:	NWSE S19-T7S-R95W (PJ-19 Pad)	**MD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Daybreak Federal 19-6BB (PJ 19)	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	DD	**Database:**	EDM 5000.1 US Multi Users Db
Reference Design:	Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design NWSE S19-T7S-R95W (PJ-19 Pad) - Daybreak Federal 19-8BB (PJ-19) - DD - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
4,900.0	4,706.8	5,164.2	4,706.8	23.3	36.5	88.10	925.2	1,768.4	2,642.7	2,607.1	35.61	74.221	
5,000.0	4,806.8	5,264.2	4,806.8	23.3	36.6	88.10	925.2	1,768.4	2,642.7	2,607.0	35.78	73.863	
5,100.0	4,906.8	5,364.2	4,906.8	23.4	36.6	88.10	925.2	1,768.4	2,642.7	2,606.8	35.95	73.503	
5,200.0	5,006.8	5,464.2	5,006.8	23.4	36.7	88.10	925.2	1,768.4	2,642.7	2,606.6	36.13	73.141	
5,300.0	5,106.8	5,564.2	5,106.8	23.5	36.7	88.10	925.2	1,768.4	2,642.7	2,606.4	36.31	72.778	
5,400.0	5,206.8	5,664.2	5,206.8	23.6	36.8	88.10	925.2	1,768.4	2,642.7	2,606.2	36.50	72.414	
5,500.0	5,306.8	5,764.2	5,306.8	23.7	36.8	88.10	925.2	1,768.4	2,642.7	2,606.1	36.68	72.048	
5,600.0	5,406.8	5,864.2	5,406.8	23.7	36.8	88.10	925.2	1,768.4	2,642.7	2,605.9	36.87	71.682	
5,700.0	5,506.8	5,964.2	5,506.8	23.8	36.9	88.10	925.2	1,768.4	2,642.7	2,605.7	37.06	71.314	
5,800.0	5,606.8	6,064.2	5,606.8	23.9	36.9	88.10	925.2	1,768.4	2,642.7	2,605.5	37.25	70.946	
5,900.0	5,706.8	6,164.2	5,706.8	23.9	37.0	88.10	925.2	1,768.4	2,642.7	2,605.3	37.44	70.578	
6,000.0	5,806.8	6,264.2	5,806.8	24.0	37.0	88.10	925.2	1,768.4	2,642.7	2,605.1	37.64	70.209	
6,100.0	5,906.8	6,364.2	5,906.8	24.1	37.1	88.10	925.2	1,768.4	2,642.7	2,604.9	37.84	69.840	
6,200.0	6,006.8	6,464.2	6,006.8	24.2	37.2	88.10	925.2	1,768.4	2,642.7	2,604.7	38.04	69.471	
6,247.2	6,054.0	6,511.3	6,054.0	24.2	37.2	88.10	925.2	1,768.4	2,642.7	2,604.6	38.14	69.297	
6,300.0	6,106.8	6,564.2	6,106.8	24.3	37.2	88.10	925.2	1,768.4	2,642.7	2,604.5	38.24	69.102	
6,347.2	6,154.0	6,611.3	6,154.0	24.3	37.2	88.10	925.2	1,768.4	2,642.7	2,604.4	38.34	68.928	SF

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Daybreak Federal 19-6BB (PJ 19)
Project:	S. Piceance	**TVD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Reference Site:	NWSE S19-T7S-R95W (PJ-19 Pad)	**MD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Daybreak Federal 19-6BB (PJ 19)	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	DD	**Database:**	EDM 5000.1 US Multi Users Db
Reference Design:	Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design NWSE S19-T7S-R95W (PJ-19 Pad) - Daybreak Federal 19-8C (PJ-19 Pad) - DD - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	72.13	25.5	79.1	83.1				
100.0	100.0	100.0	100.0	0.1	0.1	72.13	25.5	79.1	83.1	82.8	0.27	305.243	
200.0	200.0	200.0	200.0	0.3	0.3	72.13	25.5	79.1	83.1	82.5	0.62	133.758	CC, ES
300.0	300.0	296.3	296.3	0.5	0.5	118.83	27.4	80.7	86.5	85.5	0.97	88.907	
400.0	399.6	392.0	391.6	0.7	0.7	120.17	32.9	85.3	96.7	95.3	1.36	70.963	
500.0	498.8	486.2	485.1	1.0	1.0	121.80	41.9	92.9	113.6	111.8	1.82	62.583	
600.0	597.1	578.5	576.0	1.4	1.3	123.30	54.1	103.1	137.2	134.9	2.35	58.419	
700.0	694.3	668.2	663.5	1.8	1.7	124.45	69.2	115.8	167.4	164.4	2.97	56.327	
800.0	790.2	754.8	747.1	2.4	2.1	125.21	86.8	130.5	203.8	200.1	3.68	55.330	
854.6	841.9	800.0	790.2	2.7	2.4	125.45	97.1	139.2	226.2	222.1	4.09	55.287	
900.0	884.6	838.2	826.4	3.0	2.6	126.04	106.4	147.0	245.9	241.4	4.46	55.096	
1,000.0	978.8	921.2	904.3	3.6	3.1	126.65	128.5	165.5	291.2	285.9	5.29	55.095	
1,100.0	1,073.0	1,010.0	987.1	4.2	3.7	127.00	152.9	186.0	337.3	331.1	6.14	54.894	
1,200.0	1,167.2	1,098.7	1,069.9	4.8	4.3	127.26	177.2	206.4	383.4	376.4	7.01	54.673	
1,300.0	1,261.4	1,187.4	1,152.8	5.4	4.9	127.46	201.6	226.9	429.5	421.6	7.89	54.457	SF
1,400.0	1,355.5	1,264.8	1,224.6	6.0	5.4	127.50	223.6	245.3	476.5	467.7	8.75	54.471	
1,500.0	1,449.7	1,338.1	1,291.6	6.7	6.0	127.27	246.5	264.5	525.9	516.3	9.62	54.684	
1,600.0	1,543.9	1,409.1	1,355.2	7.3	6.6	126.87	270.5	284.7	577.6	567.1	10.50	55.030	
1,700.0	1,638.1	1,477.5	1,415.5	7.9	7.2	126.34	295.3	305.5	631.6	620.2	11.39	55.440	
1,800.0	1,732.3	1,543.5	1,472.4	8.5	7.9	125.74	320.8	326.9	687.7	675.4	12.29	55.942	
1,900.0	1,826.5	1,600.0	1,520.3	9.2	8.4	125.16	343.9	346.3	746.0	732.9	13.15	56.744	
2,000.0	1,920.6	1,667.8	1,576.5	9.8	9.2	124.41	373.0	370.7	806.3	792.2	14.10	57.197	
2,100.0	2,014.8	1,726.3	1,623.8	10.4	9.8	123.73	399.2	392.7	868.5	853.5	14.99	57.924	
2,200.0	2,109.0	1,782.3	1,668.2	11.0	10.5	123.06	425.4	414.7	932.6	916.7	15.88	58.709	
2,300.0	2,203.2	1,835.9	1,709.7	11.7	11.1	122.40	451.4	436.5	998.4	981.7	16.77	59.531	
2,400.0	2,297.4	1,900.0	1,758.0	12.3	11.9	121.60	483.6	463.5	1,066.1	1,048.4	17.73	60.138	
2,500.0	2,391.6	1,936.3	1,784.8	12.9	12.4	121.14	502.4	479.3	1,135.2	1,116.6	18.52	61.305	
2,600.0	2,485.7	1,983.2	1,818.6	13.6	13.1	120.54	527.3	500.2	1,205.8	1,186.5	19.37	62.244	
2,700.0	2,579.9	2,041.1	1,859.6	14.2	13.8	119.82	558.7	526.5	1,277.8	1,257.5	20.30	62.958	
2,800.0	2,674.1	2,109.2	1,907.6	14.8	14.8	119.05	595.6	557.5	1,350.0	1,328.7	21.28	63.450	
2,900.0	2,768.3	2,177.3	1,955.7	15.4	15.7	118.36	632.6	588.5	1,422.3	1,400.1	22.25	63.922	
3,000.0	2,862.5	2,245.3	2,003.7	16.1	16.6	117.73	669.5	619.5	1,494.7	1,471.5	23.22	64.374	
3,100.0	2,956.7	2,313.4	2,051.7	16.7	17.5	117.16	706.4	650.5	1,567.2	1,543.0	24.18	64.808	
3,200.0	3,050.8	2,381.4	2,099.8	17.3	18.4	116.63	743.4	681.5	1,639.8	1,614.6	25.14	65.222	
3,300.0	3,145.0	2,449.5	2,147.8	17.9	19.4	116.16	780.3	712.5	1,712.4	1,686.3	26.10	65.618	
3,400.0	3,239.2	2,517.6	2,195.8	18.6	20.3	115.71	817.3	743.5	1,785.0	1,758.0	27.05	65.997	
3,500.0	3,333.4	2,585.6	2,243.9	19.2	21.2	115.31	854.2	774.4	1,857.8	1,829.8	28.00	66.359	
3,600.0	3,427.6	2,653.7	2,291.9	19.8	22.1	114.93	891.1	805.4	1,930.5	1,901.6	28.94	66.705	
3,628.3	3,454.2	2,672.9	2,305.5	20.0	22.4	114.83	901.6	814.2	1,951.1	1,921.9	29.21	66.800	
3,700.0	3,522.1	2,721.9	2,340.1	20.4	23.1	115.91	928.2	836.5	2,003.0	1,972.9	30.15	66.427	
3,800.0	3,617.6	2,790.7	2,388.6	21.0	24.0	117.27	965.5	867.8	2,074.6	2,043.2	31.42	66.026	
3,900.0	3,714.1	2,860.1	2,437.6	21.4	25.0	118.48	1,003.1	899.4	2,145.1	2,112.5	32.63	65.733	
4,000.0	3,811.4	2,929.9	2,486.8	21.8	25.9	119.55	1,041.0	931.2	2,214.6	2,180.8	33.79	65.535	
4,100.0	3,909.5	3,000.0	2,536.3	22.2	26.9	120.50	1,079.1	963.1	2,283.0	2,248.1	34.89	65.427	
4,200.0	4,008.2	3,070.4	2,586.0	22.5	27.8	121.34	1,117.3	995.2	2,350.3	2,314.3	35.94	65.400	
4,300.0	4,107.4	3,141.0	2,635.9	22.7	28.8	122.08	1,155.6	1,027.4	2,416.4	2,379.5	36.92	65.452	
4,400.0	4,207.0	3,211.8	2,685.8	22.9	29.8	122.73	1,194.0	1,059.6	2,481.5	2,443.6	37.84	65.581	
4,500.0	4,306.8	3,282.5	2,735.7	23.0	30.7	123.31	1,232.4	1,091.8	2,545.4	2,506.7	38.69	65.784	
4,600.0	4,406.8	3,353.1	2,785.6	23.1	31.7	123.81	1,270.7	1,123.9	2,608.3	2,568.8	39.48	66.063	
4,610.2	4,417.0	3,360.3	2,790.7	23.1	31.8	77.68	1,274.6	1,127.2	2,614.6	2,575.1	39.56	66.092	
4,700.0	4,506.8	3,423.7	2,835.4	23.1	32.6	76.92	1,309.0	1,156.1	2,670.7	2,630.7	39.98	66.804	
4,800.0	4,606.8	3,494.3	2,885.2	23.2	33.6	76.11	1,347.3	1,188.2	2,733.5	2,693.0	40.42	67.621	

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

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Daybreak Federal 19-6BB (PJ 19)
Project:	S. Piceance	**TVD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Reference Site:	NWSE S19-T7S-R95W (PJ-19 Pad)	**MD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Daybreak Federal 19-6BB (PJ 19)	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	DD	**Database:**	EDM 5000.1 US Multi Users Db
Reference Design:	Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design NWSE S19-T7S-R95W (PJ-19 Pad) - Daybreak Federal 19-8C (PJ-19 Pad) - DD - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
4,900.0	4,706.8	3,564.9	2,935.0	23.3	34.6	75.33	1,385.6	1,220.4	2,796.6	2,755.8	40.85	68.462	
5,000.0	4,806.8	3,635.5	2,984.8	23.3	35.5	74.58	1,423.9	1,252.5	2,860.2	2,818.9	41.26	69.324	
5,100.0	4,906.8	5,800.6	4,906.8	23.4	49.9	65.70	2,025.2	1,757.0	2,885.6	2,840.4	45.22	63.817	
5,200.0	5,006.8	5,900.6	5,006.8	23.4	49.9	65.70	2,025.2	1,757.0	2,885.6	2,840.2	45.36	63.610	
5,300.0	5,106.8	6,000.6	5,106.8	23.5	49.9	65.70	2,025.2	1,757.0	2,885.6	2,840.1	45.51	63.401	
5,400.0	5,206.8	6,100.6	5,206.8	23.6	50.0	65.70	2,025.2	1,757.0	2,885.6	2,839.9	45.66	63.191	
5,500.0	5,306.8	6,200.6	5,306.8	23.7	50.0	65.70	2,025.2	1,757.0	2,885.6	2,839.7	45.82	62.979	
5,600.0	5,406.8	6,300.6	5,406.8	23.7	50.1	65.70	2,025.2	1,757.0	2,885.6	2,839.6	45.97	62.765	
5,700.0	5,506.8	6,400.6	5,506.8	23.8	50.1	65.70	2,025.2	1,757.0	2,885.6	2,839.4	46.13	62.550	
5,800.0	5,606.8	6,500.6	5,606.8	23.9	50.1	65.70	2,025.2	1,757.0	2,885.6	2,839.3	46.29	62.334	
5,900.0	5,706.8	6,600.6	5,706.8	23.9	50.2	65.70	2,025.2	1,757.0	2,885.6	2,839.1	46.45	62.116	
6,000.0	5,806.8	6,700.6	5,806.8	24.0	50.2	65.70	2,025.2	1,757.0	2,885.6	2,838.9	46.62	61.897	
6,100.0	5,906.8	6,800.6	5,906.8	24.1	50.3	65.70	2,025.2	1,757.0	2,885.6	2,838.8	46.78	61.677	
6,200.0	6,006.8	6,900.6	6,006.8	24.2	50.3	65.70	2,025.2	1,757.0	2,885.6	2,838.6	46.95	61.456	
6,247.2	6,054.0	6,947.8	6,054.0	24.2	50.3	65.70	2,025.2	1,757.0	2,885.6	2,838.5	47.03	61.351	
6,300.0	6,106.8	7,000.6	6,106.8	24.3	50.3	65.70	2,025.2	1,757.0	2,885.6	2,838.4	47.12	61.234	
6,347.2	6,154.0	7,047.8	6,154.0	24.3	50.4	65.70	2,025.2	1,757.0	2,885.6	2,838.4	47.20	61.129	

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Daybreak Federal 19-6BB (PJ 19)
Project:	S. Piceance	**TVD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Reference Site:	NWSE S19-T7S-R95W (PJ-19 Pad)	**MD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Daybreak Federal 19-6BB (PJ 19)	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	DD	**Database:**	EDM 5000.1 US Multi Users Db
Reference Design:	Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design NWSE S19-T7S-R95W (PJ-19 Pad) - Daybreak Federal 19-8D (PJ-19) - DD - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	71.15	32.8	96.1	101.5				
100.0	100.0	100.0	100.0	0.1	0.1	71.15	32.8	96.1	101.5	101.2	0.27	372.758	
200.0	200.0	200.0	200.0	0.3	0.3	71.15	32.8	96.1	101.5	100.9	0.62	163.344	CC, ES
300.0	300.0	295.0	295.0	0.5	0.5	118.04	34.2	97.9	105.1	104.1	0.97	108.417	
400.0	399.6	389.2	388.9	0.7	0.7	119.89	38.4	103.6	115.9	114.5	1.35	85.993	
500.0	498.8	481.8	480.8	1.0	0.9	122.24	45.2	112.7	134.0	132.3	1.78	75.452	
600.0	597.1	571.9	569.6	1.4	1.3	124.50	54.4	125.0	159.5	157.3	2.27	70.336	
700.0	694.3	659.0	654.6	1.8	1.6	126.36	65.7	140.0	192.2	189.4	2.83	67.945	
800.0	790.2	742.5	735.2	2.4	2.0	127.71	78.6	157.3	231.8	228.4	3.46	66.987	
854.6	841.9	786.4	777.2	2.7	2.3	128.24	86.3	167.6	256.2	252.4	3.83	66.975	
900.0	884.6	822.1	811.1	3.0	2.5	129.07	92.9	176.5	277.6	273.4	4.14	67.020	
1,000.0	978.8	900.0	884.4	3.6	3.0	130.25	108.8	197.6	327.0	322.1	4.86	67.340	
1,100.0	1,073.0	984.7	963.5	4.2	3.6	131.04	126.9	221.9	377.9	372.3	5.61	67.409	
1,200.0	1,167.2	1,070.6	1,043.7	4.8	4.1	131.66	145.4	246.6	428.8	422.5	6.37	67.327	
1,300.0	1,261.4	1,156.6	1,124.0	5.4	4.7	132.14	163.8	271.3	479.8	472.7	7.14	67.204	
1,400.0	1,355.5	1,234.8	1,196.9	6.0	5.2	132.48	180.8	294.0	531.1	523.2	7.90	67.227	
1,500.0	1,449.7	1,300.0	1,256.9	6.7	5.7	132.57	196.1	314.4	584.6	576.0	8.63	67.744	
1,600.0	1,543.9	1,369.5	1,319.9	7.3	6.3	132.49	213.7	337.9	640.4	631.0	9.41	68.081	
1,700.0	1,638.1	1,433.2	1,376.5	7.9	6.9	132.29	231.0	361.1	698.5	688.3	10.17	68.656	
1,800.0	1,732.3	1,500.0	1,435.0	8.5	7.5	131.98	250.4	387.1	758.7	747.7	10.97	69.168	
1,900.0	1,826.5	1,553.0	1,480.5	9.2	8.0	131.67	266.7	408.8	820.8	809.1	11.72	70.031	
2,000.0	1,920.6	1,609.3	1,528.0	9.8	8.6	131.29	284.7	433.0	884.9	872.4	12.49	70.841	
2,100.0	2,014.8	1,665.9	1,574.9	10.4	9.2	130.88	303.8	458.4	950.8	937.5	13.27	71.624	
2,200.0	2,109.0	1,740.3	1,636.1	11.0	10.1	130.36	329.1	492.3	1,017.3	1,003.2	14.15	71.901	
2,300.0	2,203.2	1,814.6	1,697.2	11.7	10.9	129.90	354.4	526.2	1,083.9	1,068.9	15.02	72.162	
2,400.0	2,297.4	1,888.9	1,758.3	12.3	11.7	129.50	379.8	560.0	1,150.6	1,134.7	15.89	72.404	
2,500.0	2,391.6	1,963.2	1,819.4	12.9	12.5	129.14	405.1	593.9	1,217.3	1,200.5	16.76	72.627	
2,600.0	2,485.7	2,037.5	1,880.5	13.6	13.3	128.82	430.4	627.8	1,284.0	1,266.4	17.63	72.837	
2,700.0	2,579.9	2,111.9	1,941.6	14.2	14.1	128.53	455.8	661.7	1,350.7	1,332.2	18.49	73.032	
2,800.0	2,674.1	2,186.2	2,002.7	14.8	14.9	128.26	481.1	695.5	1,417.4	1,398.1	19.36	73.215	
2,900.0	2,768.3	2,260.5	2,063.8	15.4	15.7	128.02	506.4	729.4	1,484.2	1,464.0	20.22	73.385	
3,000.0	2,862.5	2,334.8	2,124.9	16.1	16.6	127.81	531.8	763.3	1,551.0	1,529.9	21.09	73.545	
3,100.0	2,956.7	2,409.1	2,186.0	16.7	17.4	127.60	557.1	797.2	1,617.7	1,595.8	21.95	73.696	
3,200.0	3,050.8	2,483.5	2,247.1	17.3	18.2	127.42	582.4	831.1	1,684.5	1,661.7	22.81	73.837	
3,300.0	3,145.0	2,557.8	2,308.2	17.9	19.0	127.25	607.7	864.9	1,751.3	1,727.7	23.68	73.970	
3,400.0	3,239.2	2,632.1	2,369.3	18.6	19.8	127.09	633.1	898.8	1,818.1	1,793.6	24.54	74.096	
3,500.0	3,333.4	2,706.4	2,430.4	19.2	20.6	126.94	658.4	932.7	1,885.0	1,859.6	25.40	74.215	
3,600.0	3,427.6	2,780.7	2,491.5	19.8	21.5	126.81	683.7	966.6	1,951.8	1,925.5	26.26	74.327	
3,628.3	3,454.2	2,801.8	2,508.8	20.0	21.7	126.77	690.9	976.1	1,970.7	1,944.2	26.50	74.358	
3,700.0	3,522.1	2,855.4	2,552.9	20.4	22.3	127.66	709.2	1,000.6	2,018.2	1,990.9	27.30	73.926	
3,800.0	3,617.6	2,931.2	2,615.2	21.0	23.1	128.76	735.0	1,035.1	2,083.1	2,054.7	28.37	73.427	
3,900.0	3,714.1	3,008.1	2,678.5	21.4	24.0	129.71	761.2	1,070.2	2,146.3	2,116.9	29.39	73.018	
4,000.0	3,811.4	3,086.0	2,742.5	21.8	24.8	130.51	787.8	1,105.7	2,207.9	2,177.5	30.37	72.692	
4,100.0	3,909.5	3,164.8	2,807.3	22.2	25.7	131.19	814.7	1,141.6	2,267.7	2,236.4	31.30	72.442	
4,200.0	4,008.2	3,244.5	2,872.9	22.5	26.6	131.76	841.8	1,178.0	2,325.8	2,293.6	32.18	72.268	
4,300.0	4,107.4	3,324.9	2,939.0	22.7	27.5	132.23	869.2	1,214.6	2,382.1	2,349.1	33.01	72.167	
4,400.0	4,207.0	3,405.9	3,005.6	22.9	28.4	132.60	896.9	1,251.6	2,436.6	2,402.9	33.78	72.140	
4,500.0	4,306.8	3,487.5	3,072.7	23.0	29.3	132.89	924.7	1,288.7	2,489.4	2,454.9	34.48	72.188	
4,600.0	4,406.8	3,569.5	3,140.1	23.1	30.2	133.10	952.6	1,326.1	2,540.4	2,505.2	35.13	72.315	
4,610.2	4,417.0	3,577.9	3,147.0	23.1	30.3	86.94	955.5	1,329.9	2,545.4	2,510.2	35.19	72.329	
4,700.0	4,506.8	3,651.7	3,207.7	23.1	31.1	86.34	980.6	1,363.6	2,590.4	2,554.8	35.61	72.734	
4,800.0	4,606.8	3,734.0	3,275.3	23.2	32.0	85.70	1,008.7	1,401.1	2,640.7	2,604.6	36.07	73.212	

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

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Daybreak Federal 19-6BB (PJ 19)
Project:	S. Piceance	**TVD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Reference Site:	NWSE S19-T7S-R95W (PJ-19 Pad)	**MD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Daybreak Federal 19-6BB (PJ 19)	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	DD	**Database:**	EDM 5000.1 US Multi Users Db
Reference Design:	Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design NWSE S19-T7S-R95W (PJ-19 Pad) - Daybreak Federal 19-8D (PJ-19) - DD - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
4,900.0	4,706.8	5,267.7	4,706.8	23.3	40.0	80.56	1,274.9	1,757.1	2,666.0	2,626.8	39.29	67.858	
5,000.0	4,806.8	5,367.7	4,806.8	23.3	40.1	80.56	1,274.9	1,757.1	2,666.0	2,626.6	39.45	67.586	
5,100.0	4,906.8	5,467.7	4,906.8	23.4	40.1	80.56	1,274.9	1,757.1	2,666.0	2,626.4	39.61	67.312	
5,200.0	5,006.8	5,567.7	5,006.8	23.4	40.2	80.56	1,274.9	1,757.1	2,666.0	2,626.3	39.77	67.036	
5,300.0	5,106.8	5,667.7	5,106.8	23.5	40.2	80.56	1,274.9	1,757.1	2,666.0	2,626.1	39.94	66.758	
5,400.0	5,206.8	5,767.7	5,206.8	23.6	40.3	80.56	1,274.9	1,757.1	2,666.0	2,625.9	40.10	66.479	
5,500.0	5,306.8	5,867.7	5,306.8	23.7	40.3	80.56	1,274.9	1,757.1	2,666.0	2,625.8	40.27	66.198	
5,600.0	5,406.8	5,967.7	5,406.8	23.7	40.3	80.56	1,274.9	1,757.1	2,666.0	2,625.6	40.45	65.916	
5,700.0	5,506.8	6,067.7	5,506.8	23.8	40.4	80.56	1,274.9	1,757.1	2,666.0	2,625.4	40.62	65.633	
5,800.0	5,606.8	6,167.7	5,606.8	23.9	40.4	80.56	1,274.9	1,757.1	2,666.0	2,625.3	40.80	65.348	
5,900.0	5,706.8	6,267.7	5,706.8	23.9	40.5	80.56	1,274.9	1,757.1	2,666.0	2,625.1	40.98	65.062	
6,000.0	5,806.8	6,367.7	5,806.8	24.0	40.5	80.56	1,274.9	1,757.1	2,666.0	2,624.9	41.16	64.776	
6,100.0	5,906.8	6,467.7	5,906.8	24.1	40.6	80.56	1,274.9	1,757.1	2,666.0	2,624.7	41.34	64.488	
6,200.0	6,006.8	6,567.7	6,006.8	24.2	40.6	80.56	1,274.9	1,757.1	2,666.0	2,624.5	41.53	64.200	
6,247.2	6,054.0	6,614.8	6,054.0	24.2	40.6	80.56	1,274.9	1,757.1	2,666.0	2,624.4	41.62	64.064	
6,300.0	6,106.8	6,667.7	6,106.8	24.3	40.7	80.56	1,274.9	1,757.1	2,666.0	2,624.3	41.71	63.911	
6,347.2	6,154.0	6,714.8	6,154.0	24.3	40.7	80.56	1,274.9	1,757.1	2,666.0	2,624.2	41.80	63.775	SF

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Daybreak Federal 19-6BB (PJ 19)
Project:	S. Piceance	**TVD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Reference Site:	NWSE S19-T7S-R95W (PJ-19 Pad)	**MD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Daybreak Federal 19-6BB (PJ 19)	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	DD	**Database:**	EDM 5000.1 US Multi Users Db
Reference Design:	Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design SWSW Sec19-T7S-R95W (PM-19) - Federal 19-11 (PM-19) - DD - DD

Offset Site Error: 0.0 ft

Survey Program: 145-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	1,420.6	1,339.7	0.0	7.6	-109.38	-721.7	-2,051.7	2,538.8				
100.0	100.0	1,528.8	1,431.2	0.1	8.7	-108.97	-688.9	-2,003.9	2,486.6	2,478.5	8.09	307.196	
200.0	200.0	1,598.6	1,490.2	0.3	9.4	-108.72	-668.6	-1,972.9	2,434.6	2,425.7	8.90	273.674	
300.0	300.0	1,695.3	1,572.2	0.5	10.4	-63.93	-640.5	-1,929.9	2,381.8	2,377.3	4.50	529.166	
400.0	399.6	1,771.8	1,636.7	0.7	11.2	-65.56	-617.1	-1,896.1	2,326.7	2,322.0	4.72	492.805	
500.0	498.8	1,837.8	1,692.5	1.0	11.9	-67.39	-596.3	-1,867.6	2,270.3	2,265.4	4.92	461.720	
600.0	597.1	1,910.0	1,753.9	1.4	12.6	-69.44	-574.0	-1,836.8	2,212.9	2,207.8	5.16	429.248	
700.0	694.3	1,986.9	1,819.3	1.8	13.4	-71.73	-549.8	-1,804.3	2,154.3	2,148.8	5.49	392.645	
800.0	790.2	2,053.2	1,875.5	2.4	14.1	-74.19	-528.1	-1,776.8	2,094.5	2,088.6	5.90	354.856	
854.6	841.9	2,086.5	1,903.9	2.7	14.4	-75.60	-517.2	-1,763.2	2,061.7	2,055.5	6.18	333.720	
900.0	884.6	2,123.3	1,935.3	3.0	14.8	-75.87	-505.2	-1,748.2	2,034.4	2,027.9	6.50	313.147	
1,000.0	978.8	2,212.2	2,010.9	3.6	15.6	-76.56	-476.0	-1,711.6	1,973.9	1,966.7	7.22	273.567	
1,100.0	1,073.0	2,278.9	2,067.6	4.2	16.3	-77.11	-454.1	-1,684.3	1,913.7	1,905.8	7.91	241.919	
1,200.0	1,167.2	2,377.1	2,151.0	4.8	17.3	-77.95	-421.2	-1,644.2	1,853.6	1,844.9	8.66	214.027	
1,300.0	1,261.4	2,474.0	2,232.7	5.4	18.3	-78.83	-388.3	-1,603.8	1,792.7	1,783.3	9.41	190.447	
1,400.0	1,355.5	2,564.6	2,308.7	6.0	19.3	-79.74	-357.6	-1,565.1	1,731.2	1,721.1	10.17	170.247	
1,500.0	1,449.7	2,633.8	2,366.6	6.7	20.0	-80.48	-333.9	-1,535.6	1,669.8	1,658.9	10.90	153.131	
1,600.0	1,543.9	2,707.4	2,428.3	7.3	20.8	-81.31	-308.7	-1,504.5	1,609.1	1,597.4	11.66	137.950	
1,700.0	1,638.1	2,790.1	2,497.7	7.9	21.6	-82.32	-280.5	-1,469.3	1,548.4	1,536.0	12.47	124.177	
1,800.0	1,732.3	2,878.1	2,571.3	8.5	22.6	-83.51	-250.8	-1,431.3	1,487.6	1,474.3	13.33	111.567	
1,900.0	1,826.5	2,965.9	2,644.4	9.2	23.5	-84.87	-222.0	-1,392.0	1,426.5	1,412.3	14.28	99.915	
2,000.0	1,920.6	3,041.5	2,707.1	9.8	24.3	-86.16	-197.3	-1,358.0	1,365.6	1,350.3	15.24	89.580	
2,100.0	2,014.8	3,120.8	2,772.9	10.4	25.2	-87.62	-171.2	-1,322.2	1,305.0	1,288.7	16.32	79.985	
2,200.0	2,109.0	3,188.0	2,828.6	11.0	25.9	-88.98	-149.5	-1,291.5	1,245.0	1,227.6	17.40	71.534	
2,300.0	2,203.2	3,240.0	2,872.0	11.7	26.5	-90.11	-133.1	-1,268.0	1,186.5	1,168.1	18.45	64.320	
2,400.0	2,297.4	3,309.2	2,930.3	12.3	27.2	-91.73	-111.6	-1,237.4	1,129.7	1,110.0	19.70	57.346	
2,500.0	2,391.6	3,369.0	2,981.0	12.9	27.8	-93.23	-93.5	-1,211.5	1,075.0	1,054.1	20.94	51.332	
2,600.0	2,485.7	3,431.0	3,034.2	13.6	28.4	-94.91	-75.5	-1,185.3	1,022.7	1,000.4	22.29	45.889	
2,700.0	2,579.9	3,494.6	3,089.3	14.2	29.0	-96.72	-57.1	-1,159.2	972.7	949.0	23.70	41.039	
2,800.0	2,674.1	3,559.0	3,145.4	14.8	29.6	-98.64	-38.5	-1,133.7	925.3	900.1	25.18	36.751	
2,900.0	2,768.3	3,611.9	3,192.3	15.4	30.0	-100.29	-24.0	-1,113.9	881.6	855.1	26.54	33.221	
3,000.0	2,862.5	3,684.0	3,256.7	16.1	30.6	-102.68	-5.0	-1,087.7	841.4	813.2	28.23	29.810	
3,100.0	2,956.7	3,736.6	3,304.2	16.7	31.1	-104.51	8.1	-1,069.3	805.2	775.6	29.65	27.154	
3,200.0	3,050.8	3,801.7	3,364.0	17.3	31.5	-106.87	22.9	-1,048.1	774.2	742.9	31.29	24.746	
3,300.0	3,145.0	3,874.0	3,430.8	17.9	32.0	-109.58	38.6	-1,025.4	747.3	714.3	33.04	22.620	
3,400.0	3,239.2	3,948.7	3,500.4	18.6	32.6	-112.44	54.5	-1,003.3	724.6	689.8	34.79	20.829	
3,500.0	3,333.4	4,026.2	3,572.9	19.2	33.1	-115.48	70.3	-981.4	706.1	669.5	36.54	19.321	
3,600.0	3,427.6	4,091.0	3,634.1	19.8	33.4	-118.07	82.6	-963.9	692.6	654.5	38.05	18.204	
3,628.3	3,454.2	4,110.3	3,652.5	20.0	33.5	-118.83	85.9	-959.0	689.9	651.4	38.47	17.934	
3,700.0	3,522.1	4,155.7	3,695.9	20.4	33.8	-120.50	93.3	-947.9	684.7	645.2	39.53	17.323	
3,800.0	3,617.6	4,227.0	3,764.8	21.0	34.1	-122.98	102.9	-932.5	681.3	640.4	40.95	16.638	
3,900.0	3,714.1	4,313.3	3,848.7	21.4	34.5	-125.74	113.7	-915.3	679.8	637.5	42.36	16.051	
3,999.8	3,811.2	4,396.6	3,930.0	21.8	34.8	-128.16	123.4	-900.0	679.4	635.8	43.54	15.603	
4,000.0	3,811.4	4,396.8	3,930.2	21.8	34.8	-128.17	123.5	-900.0	679.4	635.8	43.54	15.602	
4,100.0	3,909.5	4,484.4	4,016.1	22.2	35.1	-130.36	132.8	-886.1	679.5	634.9	44.56	15.249	
4,200.0	4,008.2	4,569.0	4,099.6	22.5	35.4	-132.16	140.9	-874.5	679.8	634.4	45.37	14.981	
4,300.0	4,107.4	4,655.3	4,185.1	22.7	35.6	-133.60	147.6	-865.1	680.3	634.3	46.01	14.785	
4,400.0	4,207.0	4,747.0	4,276.3	22.9	35.8	-134.80	153.3	-856.9	680.3	633.8	46.53	14.622	
4,500.0	4,306.8	4,837.4	4,366.3	23.0	35.9	-135.66	158.1	-850.1	679.2	632.3	46.91	14.478	
4,600.0	4,406.8	4,930.5	4,459.2	23.1	36.1	-136.21	161.6	-844.8	677.1	629.9	47.17	14.355	
4,610.2	4,417.0	4,940.6	4,469.2	23.1	36.1	177.58	162.0	-844.3	676.7	629.5	47.19	14.341	
4,700.0	4,506.8	5,026.6	4,555.1	23.1	36.2	177.23	164.8	-840.4	674.0	626.6	47.40	14.220	

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

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Daybreak Federal 19-6BB (PJ 19)
Project:	S. Piceance	**TVD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Reference Site:	NWSE S19-T7S-R95W (PJ-19 Pad)	**MD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Daybreak Federal 19-6BB (PJ 19)	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	DD	**Database:**	EDM 5000.1 US Multi Users Db
Reference Design:	Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design SWSW Sec19-T7S-R95W (PM-19) - Federal 19-11 (PM-19) - DD - DD

Offset Site Error: 0.0 ft

Survey Program: 145-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
4,800.0	4,606.8	5,124.1	4,652.5	23.2	36.3	176.86	167.4	-836.1	671.5	623.9	47.63	14.098	
4,900.0	4,706.8	5,220.4	4,748.7	23.3	36.4	176.56	169.6	-832.7	669.5	621.6	47.84	13.994	
5,000.0	4,806.8	5,316.6	4,844.8	23.3	36.5	176.32	171.2	-830.1	668.0	619.9	48.04	13.906	
5,100.0	4,906.8	5,412.7	4,940.9	23.4	36.6	176.15	172.2	-828.1	667.1	618.9	48.21	13.836	
5,173.9	4,980.7	5,482.5	5,010.7	23.4	36.6	176.09	172.5	-827.4	666.9	618.5	48.33	13.798	CC
5,200.0	5,006.8	5,507.1	5,035.4	23.4	36.6	176.07	172.4	-827.2	666.9	618.5	48.37	13.788	ES
5,300.0	5,106.8	5,602.1	5,130.3	23.5	36.7	176.06	171.9	-827.0	667.5	619.0	48.51	13.759	
5,400.0	5,206.8	5,704.0	5,232.2	23.6	36.7	176.08	171.1	-827.2	668.3	619.6	48.65	13.736	
5,500.0	5,306.8	5,800.7	5,328.9	23.7	36.7	176.09	170.2	-827.2	669.2	620.4	48.81	13.711	
5,600.0	5,406.8	5,900.5	5,428.7	23.7	36.8	176.09	169.0	-827.2	670.3	621.4	48.95	13.693	
5,700.0	5,506.8	5,999.0	5,527.2	23.8	36.8	176.13	167.7	-827.6	671.7	622.6	49.09	13.681	
5,800.0	5,606.8	6,097.8	5,626.0	23.9	36.8	176.21	166.1	-828.4	673.2	624.0	49.23	13.676	SF
5,900.0	5,706.8	6,197.6	5,725.7	23.9	36.8	176.37	164.4	-830.2	674.8	625.4	49.33	13.677	
6,000.0	5,806.8	6,293.2	5,821.3	24.0	36.8	176.58	162.4	-832.6	676.8	627.3	49.43	13.690	
6,100.0	5,906.8	6,391.9	5,919.9	24.1	36.8	176.83	159.8	-835.3	679.2	629.7	49.53	13.714	
6,200.0	6,006.8	6,493.9	6,021.9	24.2	36.8	177.09	157.2	-838.3	681.6	632.0	49.63	13.735	
6,247.2	6,054.0	6,542.7	6,070.6	24.2	36.8	177.21	156.1	-839.7	682.6	632.9	49.67	13.741	
6,300.0	6,106.8	6,593.9	6,121.8	24.3	36.8	177.33	155.0	-841.1	683.6	633.9	49.73	13.748	
6,347.2	6,154.0	6,641.1	6,168.9	24.3	36.8	177.46	153.9	-842.5	684.7	634.9	49.77	13.756	

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Daybreak Federal 19-6BB (PJ 19)
Project:	S. Piceance	**TVD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Reference Site:	NWSE S19-T7S-R95W (PJ-19 Pad)	**MD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Daybreak Federal 19-6BB (PJ 19)	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	DD	**Database:**	EDM 5000.1 US Multi Users Db
Reference Design:	Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design SWSW Sec19-T7S-R95W (PM-19) - Federal 19-11 (PM-19) - DD - Plan #2

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	30.0	30.0	0.0	0.0	-112.12	-957.8	-2,356.1	2,543.4				
100.0	100.0	1,547.2	1,447.5	0.1	9.1	-109.25	-697.7	-1,997.7	2,492.7	2,484.4	8.31	299.839	
200.0	200.0	1,631.1	1,517.8	0.3	10.0	-108.89	-670.8	-1,960.8	2,439.8	2,430.6	9.29	262.534	
300.0	300.0	1,714.6	1,587.8	0.5	10.8	-64.10	-644.1	-1,923.9	2,386.1	2,381.6	4.52	527.920	
400.0	399.6	1,797.4	1,657.2	0.7	11.7	-65.73	-617.6	-1,887.4	2,330.5	2,325.7	4.76	490.106	
500.0	498.8	1,879.3	1,725.9	1.0	12.6	-67.60	-591.4	-1,851.3	2,273.1	2,268.1	4.98	456.530	
600.0	597.1	1,960.0	1,793.5	1.4	13.4	-69.73	-565.5	-1,815.7	2,214.1	2,208.9	5.22	424.046	
700.0	694.3	2,039.2	1,860.0	1.8	14.2	-72.14	-540.2	-1,780.7	2,153.6	2,148.1	5.52	390.033	
800.0	790.2	2,116.9	1,925.0	2.4	15.1	-74.83	-515.3	-1,746.5	2,092.0	2,086.0	5.94	352.260	
854.6	841.9	2,158.5	1,959.9	2.7	15.5	-76.42	-502.0	-1,728.1	2,057.9	2,051.6	6.23	330.053	
900.0	884.6	2,192.9	1,988.8	3.0	15.8	-76.71	-491.0	-1,713.0	2,029.4	2,022.9	6.55	309.905	
1,000.0	978.8	2,268.6	2,052.2	3.6	16.6	-77.39	-466.7	-1,679.6	1,966.9	1,959.7	7.25	271.292	
1,100.0	1,073.0	2,344.3	2,115.7	4.2	17.4	-78.10	-442.5	-1,646.2	1,904.6	1,896.6	7.97	239.102	
1,200.0	1,167.2	2,420.0	2,179.2	4.8	18.2	-78.87	-418.2	-1,612.8	1,842.5	1,833.8	8.70	211.870	
1,300.0	1,261.4	2,495.7	2,242.7	5.4	19.0	-79.68	-394.0	-1,579.4	1,780.6	1,771.2	9.45	188.514	
1,400.0	1,355.5	2,571.5	2,306.2	6.0	19.8	-80.54	-369.8	-1,546.0	1,719.0	1,708.8	10.22	168.235	
1,500.0	1,449.7	2,647.2	2,369.7	6.7	20.6	-81.47	-345.5	-1,512.6	1,657.7	1,646.6	11.02	150.442	
1,600.0	1,543.9	2,722.9	2,433.2	7.3	21.4	-82.46	-321.3	-1,479.2	1,596.6	1,584.8	11.85	134.686	
1,700.0	1,638.1	2,798.6	2,496.6	7.9	22.2	-83.52	-297.0	-1,445.8	1,536.0	1,523.2	12.73	120.629	
1,800.0	1,732.3	2,874.3	2,560.1	8.5	23.0	-84.66	-272.8	-1,412.4	1,475.7	1,462.0	13.66	108.012	
1,900.0	1,826.5	2,950.1	2,623.6	9.2	23.8	-85.88	-248.5	-1,379.0	1,415.9	1,401.2	14.65	96.641	
2,000.0	1,920.6	3,025.8	2,687.1	9.8	24.6	-87.21	-224.3	-1,345.6	1,356.6	1,340.8	15.71	86.366	
2,100.0	2,014.8	3,101.5	2,750.6	10.4	25.4	-88.63	-200.1	-1,312.2	1,297.8	1,281.0	16.84	77.070	
2,200.0	2,109.0	3,177.2	2,814.1	11.0	26.2	-90.17	-175.8	-1,278.8	1,239.7	1,221.7	18.06	68.660	
2,300.0	2,203.2	3,252.9	2,877.5	11.7	27.0	-91.84	-151.6	-1,245.4	1,182.4	1,163.0	19.36	61.062	
2,400.0	2,297.4	3,328.7	2,941.0	12.3	27.8	-93.66	-127.3	-1,212.0	1,125.9	1,105.2	20.77	54.211	
2,500.0	2,391.6	3,404.4	3,004.5	12.9	28.6	-95.63	-103.1	-1,178.6	1,070.5	1,048.2	22.28	48.050	
2,600.0	2,485.7	3,480.1	3,068.0	13.6	29.4	-97.77	-78.8	-1,145.2	1,016.2	992.3	23.89	42.530	
2,700.0	2,579.9	3,555.8	3,131.5	14.2	30.2	-100.10	-54.6	-1,111.8	963.3	937.7	25.62	37.603	
2,800.0	2,674.1	3,623.3	3,188.0	14.8	30.9	-102.35	-33.0	-1,082.0	912.0	884.7	27.31	33.395	
2,900.0	2,768.3	3,681.5	3,237.3	15.4	31.5	-104.43	-14.8	-1,056.9	863.8	834.9	28.90	29.891	
3,000.0	2,862.5	3,736.2	3,284.5	16.1	32.0	-106.47	1.5	-1,034.5	820.0	789.6	30.45	26.928	
3,100.0	2,956.7	3,800.0	3,340.5	16.7	32.5	-108.97	19.5	-1,009.7	780.9	748.7	32.18	24.269	
3,200.0	3,050.8	3,852.0	3,386.8	17.3	32.9	-111.07	33.3	-990.6	746.9	713.2	33.68	22.176	
3,300.0	3,145.0	3,913.2	3,442.2	17.9	33.4	-113.60	48.7	-969.5	718.4	683.0	35.32	20.339	
3,400.0	3,239.2	3,976.5	3,500.3	18.6	33.9	-116.25	63.4	-949.2	695.6	658.7	36.94	18.831	
3,500.0	3,333.4	4,041.9	3,561.2	19.2	34.3	-119.01	77.5	-929.8	678.8	640.3	38.51	17.627	
3,600.0	3,427.6	4,100.0	3,615.9	19.8	34.6	-121.44	88.9	-914.1	668.1	628.2	39.89	16.750	
3,628.3	3,454.2	4,128.9	3,643.3	20.0	34.8	-122.63	94.2	-906.7	666.0	625.6	40.41	16.481	
3,700.0	3,522.1	4,179.2	3,691.3	20.4	35.0	-124.57	102.9	-894.8	662.6	621.1	41.50	15.965	
3,800.0	3,617.6	4,251.7	3,761.3	21.0	35.3	-127.17	114.1	-879.3	660.7	617.9	42.87	15.412	
3,813.8	3,630.8	4,261.9	3,771.2	21.0	35.4	-127.51	115.6	-877.3	660.7	617.7	43.04	15.350 CC	
3,900.0	3,714.1	4,326.9	3,834.6	21.4	35.6	-129.58	124.1	-865.6	661.6	617.6	44.06	15.015 ES	
4,000.0	3,811.4	4,400.0	3,906.4	21.8	35.8	-131.62	132.2	-854.5	664.6	619.5	45.05	14.753	
4,100.0	3,909.5	4,484.0	3,989.5	22.2	36.0	-133.56	139.4	-844.4	668.8	623.0	45.88	14.578	
4,200.0	4,008.2	4,565.3	4,070.3	22.5	36.2	-135.01	144.4	-837.6	674.0	627.5	46.51	14.490	
4,300.0	4,107.4	4,647.7	4,152.5	22.7	36.2	-136.06	147.4	-833.5	679.5	632.5	46.97	14.465	
4,400.0	4,207.0	4,732.2	4,237.0	22.9	36.3	-136.68	148.3	-832.2	685.0	637.7	47.29	14.485	
4,500.0	4,306.8	4,832.1	4,336.9	23.0	36.3	-137.06	148.3	-832.2	689.1	641.6	47.52	14.501	
4,600.0	4,406.8	4,932.0	4,436.8	23.1	36.4	-137.20	148.3	-832.2	690.7	643.0	47.67	14.489	
4,610.2	4,417.0	4,942.2	4,447.0	23.1	36.4	176.63	148.3	-832.2	690.7	643.0	47.68	14.486	
4,700.0	4,506.8	5,032.0	4,536.8	23.1	36.4	176.63	148.3	-832.2	690.7	642.9	47.80	14.450	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Daybreak Federal 19-6BB (PJ 19)
Project:	S. Piceance	**TVD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Reference Site:	NWSE S19-T7S-R95W (PJ-19 Pad)	**MD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Daybreak Federal 19-6BB (PJ 19)	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	DD	**Database:**	EDM 5000.1 US Multi Users Db
Reference Design:	Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design SWSW Sec19-T7S-R95W (PM-19) - Federal 19-11 (PM-19) - DD - Plan #2

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
4,800.0	4,606.8	5,132.0	4,636.8	23.2	36.5	176.63	148.3	-832.2	690.7	642.7	47.93	14.409	
4,900.0	4,706.8	5,232.0	4,736.8	23.3	36.5	176.63	148.3	-832.2	690.7	642.6	48.07	14.368	
5,000.0	4,806.8	5,332.0	4,836.8	23.3	36.5	176.63	148.3	-832.2	690.7	642.5	48.21	14.326	
5,100.0	4,906.8	5,432.0	4,936.8	23.4	36.6	176.63	148.3	-832.2	690.7	642.3	48.35	14.284	
5,200.0	5,006.8	5,532.0	5,036.8	23.4	36.6	176.63	148.3	-832.2	690.7	642.2	48.50	14.241	
5,300.0	5,106.8	5,632.0	5,136.8	23.5	36.7	176.63	148.3	-832.2	690.7	642.0	48.64	14.199	
5,400.0	5,206.8	5,732.0	5,236.8	23.6	36.7	176.63	148.3	-832.2	690.7	641.9	48.79	14.155	
5,500.0	5,306.8	5,832.0	5,336.8	23.7	36.8	176.63	148.3	-832.2	690.7	641.7	48.94	14.112	
5,600.0	5,406.8	5,932.0	5,436.8	23.7	36.8	176.63	148.3	-832.2	690.7	641.6	49.10	14.068	
5,700.0	5,506.8	6,032.0	5,536.8	23.8	36.9	176.63	148.3	-832.2	690.7	641.4	49.25	14.024	
5,800.0	5,606.8	6,132.0	5,636.8	23.9	36.9	176.63	148.3	-832.2	690.7	641.3	49.41	13.979	
5,900.0	5,706.8	6,232.0	5,736.8	23.9	37.0	176.63	148.3	-832.2	690.7	641.1	49.57	13.935	
6,000.0	5,806.8	6,332.0	5,836.8	24.0	37.0	176.63	148.3	-832.2	690.7	640.9	49.73	13.889	
6,100.0	5,906.8	6,432.0	5,936.8	24.1	37.1	176.63	148.3	-832.2	690.7	640.8	49.89	13.844	
6,200.0	6,006.8	6,532.0	6,036.8	24.2	37.1	176.63	148.3	-832.2	690.7	640.6	50.05	13.799	
6,247.2	6,054.0	6,579.2	6,084.0	24.2	37.2	176.63	148.3	-832.2	690.7	640.5	50.13	13.777	
6,300.0	6,106.8	6,632.0	6,136.8	24.3	37.2	176.63	148.3	-832.2	690.7	640.5	50.22	13.753	
6,347.2	6,154.0	6,679.2	6,184.0	24.3	37.2	176.63	148.3	-832.2	690.7	640.4	50.30	13.731	SF

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Daybreak Federal 19-6BB (PJ 19)
Project:	S. Piceance	**TVD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Reference Site:	NWSE S19-T7S-R95W (PJ-19 Pad)	**MD Reference:**	KBE @ 5449.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Daybreak Federal 19-6BB (PJ 19)	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	DD	**Database:**	EDM 5000.1 US Multi Users Db
Reference Design:	Plan #2	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to KBE @ 5449.0ft (Original Well Elev)
Offset Depths are relative to Offset Datum
Central Meridian is -105.500000 °

Coordinates are relative to: Daybreak Federal 19-6BB (PJ 19)
Coordinate System is US State Plane 1983, Colorado Central Zone
Grid Convergence at Surface is: -1.60°