



WELL DETAILS: OTTESEN 25N

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	1245345.26	3202179.66	40° 0' 16.560 N	104° 46' 41.768 W

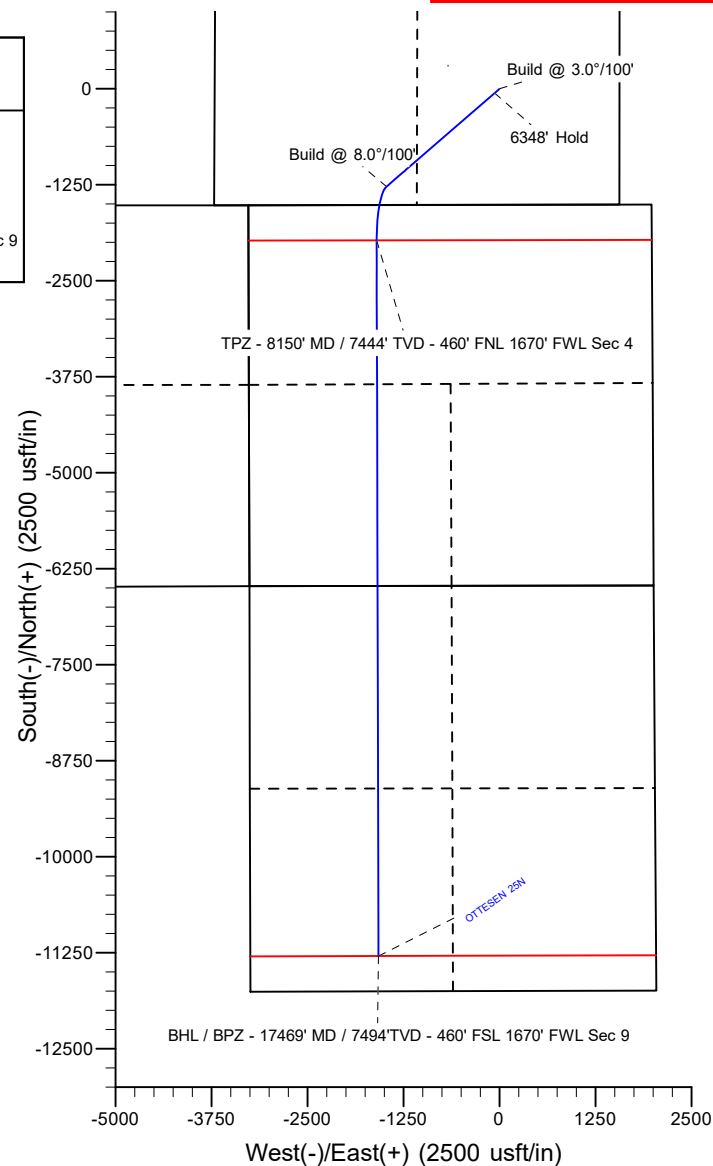
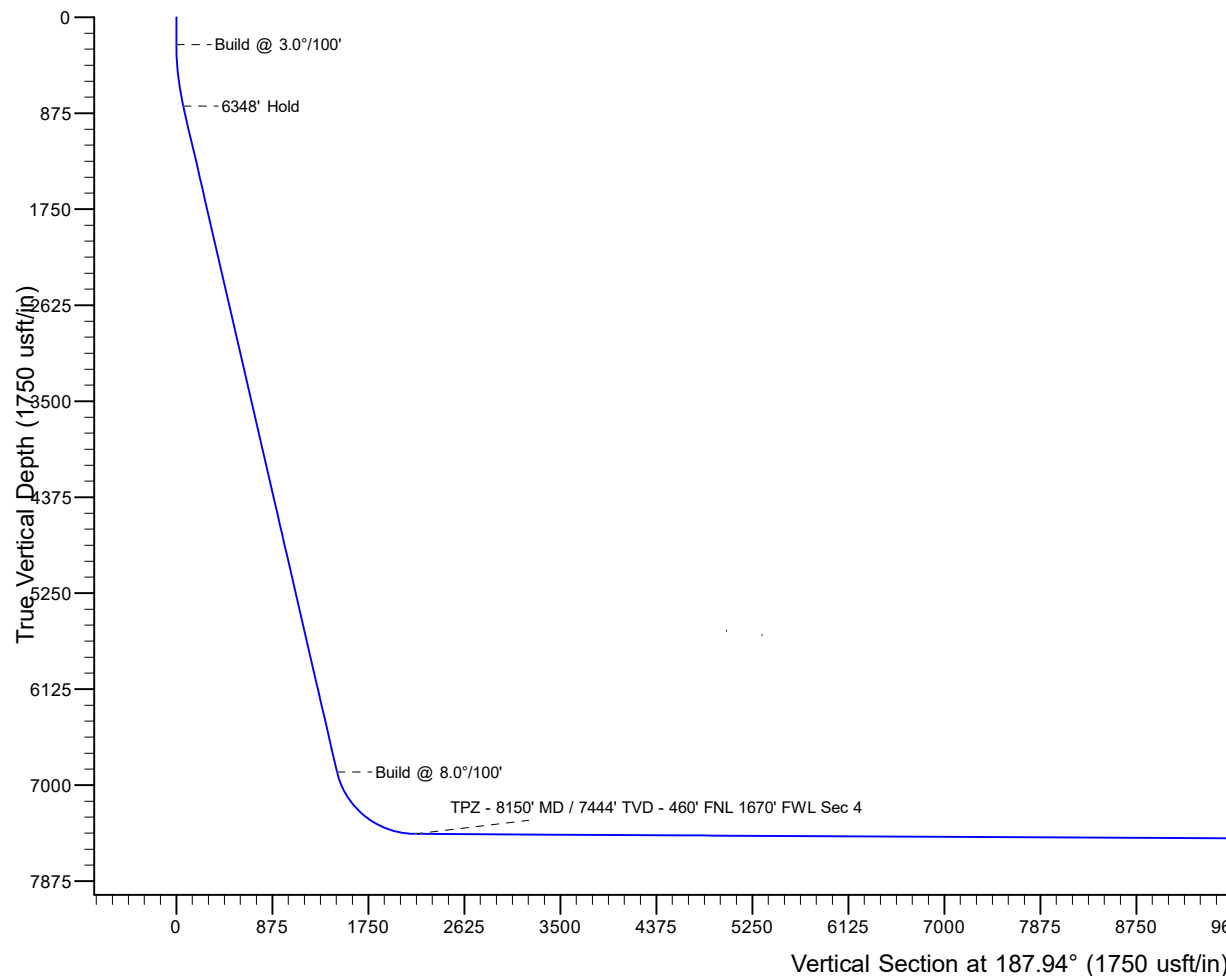
SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
250.0	0.00	0.00	250.0	0.0	0.0	0.00	0.00	0.0	Build @ 3.0°/100'
818.3	17.05	229.14	810.0	-54.9	-63.5	3.00	229.14	63.2	6348' Hold
7167.0	17.05	229.14	6879.7	-1272.7	-1471.3	0.00	0.00	1463.9	Build @ 8.0°/100'
8150.5	89.69	179.85	7444.0	-1972.3	-1600.0	8.00	-50.63	2174.5	TPZ - 8150' MD / 7444' TVD - 460' FNL 1670' FWL Sec 4
17469.7	89.69	179.85	7494.0	-11291.3	-1575.7	0.00	0.00	11400.7	BHL / BPZ - 17469' MD / 7494'TVD - 460' FSL 1670' FWL Sec 9

Project: WELD COUNTY
 Site: Ottesen Pad
 Well: OTTESEN 25N
 Wellbore: OWB
 Design: Plan #2
 Lat: 40° 0' 16.560 N
 Long: 104° 46' 41.768 W
 GL: 5076.0
 KB: KB 20' @ 5096.0usft



Azimuths to True North
 Magnetic North: 7.73°
 Magnetic Field
 Strength: 51656.7nT
 Dip Angle: 66.30°
 Date: 4/12/2022
 Model: IGRF2000



PDC Energy Inc.
Anticollision Summary Report

Company:	GWP - PLANNING DB	Local Co-ordinate Reference:	Well OTTESEN 25N
Project:	WELD COUNTY	TVD Reference:	KB 20' @ 5096.0usft
Reference Site:	Ottesen Pad	MD Reference:	KB 20' @ 5096.0usft
Site Error:	0.0 usft	North Reference:	True
Reference Well:	OTTESEN 25N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.15 Single User 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:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 10,000.0 usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date	10/3/2022		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	17,469.7	Plan #2 (OWB)	MWD	OWSG MWD - Standard

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Ottesen Offsets						
Bailey #1 - OWB - OWB	9,009.9	7,427.6	855.4	785.9	12.300	CC, ES
Bailey #1 - OWB - OWB	9,200.0	7,428.6	876.3	802.2	11.834	SF
Great Western Sugar 3X - OWB - OWB						Out of range
Grein #1 - OWB - OWB	8,937.0	7,371.2	3,276.1	3,207.7	47.869	CC
Grein #1 - OWB - OWB	9,000.0	7,371.6	3,276.7	3,207.2	47.114	ES
Grein #1 - OWB - OWB	10,600.0	7,380.1	3,674.0	3,579.7	38.940	SF
OTTESEN LE 06-290HN - OWB - OWB	821.9	813.6	55.6	49.0	8.382	CC, ES
OTTESEN LE 06-290HN - OWB - OWB	2,900.0	2,946.1	190.6	164.4	7.279	SF
OTTESEN LE 06-290HNN - OWB - OWB	868.1	857.9	45.9	39.1	6.726	CC, ES
OTTESEN LE 06-290HNN - OWB - OWB	2,500.0	2,509.3	129.5	105.6	5.413	SF
OTTESEN LE 06-311HC - OWB - OWB	904.5	893.3	37.7	30.7	5.331	CC, ES
OTTESEN LE 06-311HC - OWB - OWB	1,000.0	984.9	46.7	36.9	4.754	SF
OTTESEN LE 06-311HN - OWB - OWB	954.8	941.0	27.4	19.8	3.621	CC, ES
OTTESEN LE 06-311HN - OWB - OWB	1,000.0	984.6	30.0	21.1	3.369	SF
OTTESEN LE 06-351HN - OWB - OWB	1,000.0	983.6	21.2	12.7	2.487	SF
OTTESEN LE 06-351HN - OWB - OWB	1,020.7	1,003.8	20.7	12.6	2.554	CC, ES
OTTESEN LE 06-351HNN - OWB - OWB	1,131.0	1,104.3	42.6	27.7	2.855	CC, ES, SF
OTTESEN LE 06-370HC - OWB - OWB	1,200.0	1,175.6	20.6	6.9	1.507	Collision Risk Procedures R
OTTESEN LE 06-370HC - OWB - OWB	1,205.4	1,180.9	20.6	7.0	1.521	Collision Risk Procedures R
OTTESEN LE 06-370HN - OWB - OWB	985.3	944.7	111.0	94.7	6.807	CC
OTTESEN LE 06-370HN - OWB - OWB	1,000.0	958.5	111.0	94.6	6.741	ES
OTTESEN LE 06-370HN - OWB - OWB	1,100.0	1,053.7	114.7	97.3	6.569	SF
OTTESEN LE 09-362HC - OWB - OWB	0.0	0.5	239.5			
OTTESEN LE 09-362HC - OWB - OWB	250.0	249.8	240.8	237.5	72.606	ES
OTTESEN LE 09-362HC - OWB - OWB	17,469.7	17,880.7	3,094.3	2,691.2	7.676	SF
OTTESEN LE 09-363HN - OWB - OWB	0.0	0.5	209.2			
OTTESEN LE 09-363HN - OWB - OWB	250.0	250.0	209.4	206.1	63.464	ES
OTTESEN LE 09-363HN - OWB - OWB	17,400.0	17,453.0	2,742.1	2,342.8	6.867	SF
OTTESEN LE 09-365HC - OWB - OWB	0.0	0.5	178.9			
OTTESEN LE 09-365HC - OWB - OWB	200.0	198.9	180.2	177.2	60.004	ES
OTTESEN LE 09-365HC - OWB - OWB	17,469.7	17,633.6	2,403.4	2,004.0	6.018	SF
OTTESEN LE 09-365HN - OWB - OWB	0.0	0.5	193.6			
OTTESEN LE 09-365HN - OWB - OWB	200.0	199.0	194.4	191.4	64.746	ES
OTTESEN LE 09-365HN - OWB - OWB	17,469.7	17,626.0	2,477.1	2,073.7	6.141	SF
OTTESEN LE 09-366HN - OWB - OWB	0.0	0.5	150.1			
OTTESEN LE 09-366HN - OWB - OWB	255.1	255.9	150.4	147.1	45.415	ES
OTTESEN LE 09-366HN - OWB - OWB	17,469.7	17,533.2	1,981.3	1,580.2	4.940	SF

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

PDC Energy Inc.
Anticollision Summary Report

Company:	GWP - PLANNING DB	Local Co-ordinate Reference:	Well OTTESEN 25N
Project:	WELD COUNTY	TVD Reference:	KB 20' @ 5096.0usft
Reference Site:	Ottesen Pad	MD Reference:	KB 20' @ 5096.0usft
Site Error:	0.0 usft	North Reference:	True
Reference Well:	OTTESEN 25N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Ottesen Offsets						
OTTESEN LE 09-366HXX - OWB - OWB	0.0	0.5	164.9			
OTTESEN LE 09-366HXX - OWB - OWB	250.0	250.3	165.7	162.4	50.281	ES
OTTESEN LE 09-366HXX - OWB - OWB	17,469.7	17,201.0	2,127.8	1,733.0	5.390	SF
OTTESEN LE 09-368HC - OWB - OWB	0.0	0.5	119.7			
OTTESEN LE 09-368HC - OWB - OWB	200.0	199.7	120.4	117.4	40.046	ES
OTTESEN LE 09-368HC - OWB - OWB	17,469.7	17,677.0	1,643.7	1,244.7	4.120	SF
OTTESEN LE 09-368HN - OWB - OWB	0.0	0.5	134.5			
OTTESEN LE 09-368HN - OWB - OWB	250.0	249.9	134.7	131.4	40.813	ES
OTTESEN LE 09-368HN - OWB - OWB	17,469.7	17,464.2	1,715.0	1,315.5	4.293	SF

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Project:	WELD COUNTY	TVD Reference:	KB 20' @ 5096.0usft
Reference Site:	Ottesen Pad	MD Reference:	KB 20' @ 5096.0usft
Site Error:	0.0 usft	North Reference:	True
Reference Well:	OTTESEN 25N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Ottesen Pad						
OTTESEN 15C - OWB - OWB	0.0	0.0	219.0			
OTTESEN 15C - OWB - OWB	300.0	300.6	219.8	216.6	68.701	ES
OTTESEN 15C - OWB - OWB	1,700.0	1,734.0	346.4	326.9	17.811	SF
OTTESEN 15C - OWB - Plan #2	2,726.1	2,823.0	191.6	163.2	6.744	CC, ES
OTTESEN 15C - OWB - Plan #2	2,800.0	2,888.2	194.7	165.7	6.708	SF
OTTESEN 16N - OWB - OWB	251.3	251.4	231.8	228.8	78.177	CC
OTTESEN 16N - OWB - OWB	300.0	300.0	232.0	228.8	71.281	ES
OTTESEN 16N - OWB - OWB	1,700.0	1,735.0	424.7	405.2	21.826	SF
OTTESEN 16N - OWB - Plan #2	251.3	251.4	231.8	228.8	78.177	CC
OTTESEN 16N - OWB - Plan #2	3,034.3	3,165.6	256.5	224.7	8.056	ES
OTTESEN 16N - OWB - Plan #2	3,100.0	3,221.7	258.8	226.2	7.954	SF
OTTESEN 17N - OWB - OWB	839.4	829.8	79.0	72.6	12.293	CC, ES
OTTESEN 17N - OWB - OWB	1,000.0	983.0	92.6	83.7	10.335	SF
OTTESEN 17N - OWB - Plan #2	839.4	829.8	79.0	72.6	12.293	CC, ES
OTTESEN 17N - OWB - Plan #2	17,469.7	17,949.3	1,525.9	1,126.8	3.823	SF
OTTESEN 18C - OWB - Plan #2	250.0	250.0	105.2	102.4	37.658	CC
OTTESEN 18C - OWB - Plan #2	600.0	583.8	108.0	97.9	10.726	ES
OTTESEN 18C - OWB - Plan #2	17,469.7	17,825.8	1,357.4	965.9	3.467	SF
OTTESEN 19NA - OWB - Plan #2	250.0	250.0	90.2	87.4	32.274	CC
OTTESEN 19NA - OWB - Plan #2	600.0	585.8	93.4	83.3	9.288	ES
OTTESEN 19NA - OWB - Plan #2	17,469.7	17,654.9	1,152.3	752.9	2.885	SF
OTTESEN 20N - OWB - Plan #2	250.0	250.0	75.2	72.4	26.918	CC
OTTESEN 20N - OWB - Plan #2	600.0	588.3	78.2	68.2	7.826	ES
OTTESEN 20N - OWB - Plan #2	17,469.7	17,784.8	952.0	555.6	2.402	SF
OTTESEN 21N - OWB - OWB	654.6	651.1	40.0	34.7	7.517	CC, ES
OTTESEN 21N - OWB - OWB	800.0	792.4	53.9	45.2	6.170	SF
OTTESEN 21N - OWB - Plan #2	654.6	651.1	40.0	34.7	7.517	CC, ES
OTTESEN 21N - OWB - Plan #2	17,469.7	17,855.4	759.8	362.1	1.910	Collision Risk Procedures Re
OTTESEN 22C - OWB - Plan #2	250.0	250.0	45.2	42.4	16.182	CC
OTTESEN 22C - OWB - Plan #2	600.0	593.2	47.5	37.7	4.835	ES
OTTESEN 22C - OWB - Plan #2	17,469.7	17,850.6	614.5	247.9	1.676	Collision Risk Procedures Re
OTTESEN 23NA - OWB - Plan #2	250.0	250.0	30.2	27.4	10.801	CC
OTTESEN 23NA - OWB - Plan #2	700.0	694.3	33.0	22.1	3.014	ES
OTTESEN 23NA - OWB - Plan #2	17,469.7	17,445.3	414.2	31.9	1.083	Collision Avoidance Req., SF
OTTESEN 24N - OWB - OWB	441.7	441.3	12.6	8.4	2.981	CC, ES
OTTESEN 24N - OWB - OWB	500.0	498.8	15.1	9.7	2.807	SF
OTTESEN 24N - OWB - Plan #2	441.7	441.3	12.6	8.4	2.981	CC
OTTESEN 24N - OWB - Plan #2	17,469.7	17,737.3	199.2	-177.9	0.528	No-Go Zone - Stop Drilling, E
OTTESEN 26C - OWB - Plan #2	250.0	250.0	14.6	11.8	5.215	CC
OTTESEN 26C - OWB - Plan #2	17,469.7	17,680.9	279.5	-36.1	0.886	No-Go Zone - Stop Drilling, E
OTTESEN 27NA - OWB - OWB	0.0	0.0	30.0			
OTTESEN 27NA - OWB - OWB	250.0	250.0	30.7	27.8	10.857	ES
OTTESEN 27NA - OWB - OWB	500.0	499.2	44.1	37.4	6.554	SF
OTTESEN 27NA - OWB - Plan #2	0.0	0.0	30.0			
OTTESEN 27NA - OWB - Plan #2	250.0	250.0	30.7	27.8	10.857	ES
OTTESEN 27NA - OWB - Plan #2	17,469.7	17,364.8	414.2	49.8	1.137	Collision Avoidance Req., SF
OTTESEN 28N - OWB - Plan #2	250.0	250.0	45.1	42.3	16.145	CC
OTTESEN 28N - OWB - Plan #2	500.0	503.6	47.3	40.1	6.503	ES
OTTESEN 28N - OWB - Plan #2	17,469.7	17,449.6	573.0	173.7	1.435	Collision Avoidance Req., SF
OTTESEN 29C - OWB - Plan #2	250.0	250.0	59.7	56.9	21.360	CC
OTTESEN 29C - OWB - Plan #2	400.0	402.6	60.9	55.8	11.966	ES
OTTESEN 29C - OWB - Plan #2	17,469.7	17,591.9	789.6	397.6	2.014	SF
OTTESEN 30N - OWB - OWB	257.5	257.7	74.0	70.9	23.784	CC

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

PDC Energy Inc.
Anticollision Summary Report

Company:	GWP - PLANNING DB	Local Co-ordinate Reference:	Well OTTESEN 25N
Project:	WELD COUNTY	TVD Reference:	KB 20' @ 5096.0usft
Reference Site:	Ottesen Pad	MD Reference:	KB 20' @ 5096.0usft
Site Error:	0.0 usft	North Reference:	True
Reference Well:	OTTESEN 25N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Ottesen Pad						
OTTESEN 30N - OWB - OWB	300.0	300.6	74.3	70.7	20.868	ES
OTTESEN 30N - OWB - OWB	600.0	598.1	100.0	91.7	11.927	SF
OTTESEN 30N - OWB - Plan #2	257.5	257.7	74.0	70.9	23.784	CC
OTTESEN 30N - OWB - Plan #2	300.0	300.6	74.3	70.7	20.868	ES
OTTESEN 30N - OWB - Plan #2	17,469.7	17,395.0	949.7	551.1	2.383	SF
OTTESEN 31N - OWB - Plan #2	250.0	250.0	90.2	87.4	32.291	CC, ES
OTTESEN 31N - OWB - Plan #2	17,469.7	17,390.0	1,141.0	741.6	2.857	SF
OTTESEN 32NA - OWB - OWB	204.6	204.6	102.9	100.3	39.094	CC
OTTESEN 32NA - OWB - OWB	250.0	249.8	103.0	100.2	35.615	ES
OTTESEN 32NA - OWB - OWB	700.0	695.0	148.5	139.2	16.067	SF
OTTESEN 32NA - OWB - Plan #2	204.6	204.6	102.9	100.3	39.094	CC
OTTESEN 32NA - OWB - Plan #2	250.0	249.8	103.0	100.2	35.615	ES
OTTESEN 32NA - OWB - Plan #2	17,469.7	17,211.7	1,342.4	948.7	3.409	SF
OTTESEN FEDERAL 01N - OWB - Plan #2	924.6	902.7	86.6	71.9	5.896	CC, ES
OTTESEN FEDERAL 01N - OWB - Plan #2	1,100.0	1,070.7	94.0	76.4	5.336	SF
OTTESEN FEDERAL 02NA - OWB - Plan #2	933.3	914.5	86.9	73.6	6.526	CC
OTTESEN FEDERAL 02NA - OWB - Plan #2	1,000.0	979.0	87.8	73.3	6.067	ES
OTTESEN FEDERAL 02NA - OWB - Plan #2	1,200.0	1,169.7	103.3	85.0	5.659	SF
OTTESEN FEDERAL 03C - OWB - Plan #2	936.6	920.9	90.4	78.6	7.673	CC
OTTESEN FEDERAL 03C - OWB - Plan #2	1,000.0	982.5	91.0	78.1	7.075	ES
OTTESEN FEDERAL 03C - OWB - Plan #2	1,200.0	1,174.1	104.3	87.3	6.127	SF
OTTESEN FEDERAL 04N - OWB - Plan #2	938.7	926.4	96.4	86.2	9.387	CC
OTTESEN FEDERAL 04N - OWB - Plan #2	1,000.0	986.2	96.9	85.6	8.595	ES
OTTESEN FEDERAL 04N - OWB - Plan #2	1,300.0	1,272.6	121.0	103.2	6.789	SF
OTTESEN FEDERAL 05N - OWB - Plan #2	926.5	917.4	104.8	95.8	11.650	CC
OTTESEN FEDERAL 05N - OWB - Plan #2	1,000.0	989.5	105.4	95.3	10.450	ES
OTTESEN FEDERAL 05N - OWB - Plan #2	1,300.0	1,277.0	126.4	109.8	7.616	SF
OTTESEN FEDERAL 06NA - OWB - Plan #2	890.6	884.6	114.7	106.8	14.513	CC
OTTESEN FEDERAL 06NA - OWB - Plan #2	1,000.0	992.6	115.4	106.1	12.427	ES
OTTESEN FEDERAL 06NA - OWB - Plan #2	1,400.0	1,373.3	150.1	132.4	8.492	SF
OTTESEN FEDERAL 07C - OWB - Plan #2	250.0	250.0	125.4	122.6	44.888	CC
OTTESEN FEDERAL 07C - OWB - Plan #2	1,000.0	995.6	128.1	119.3	14.545	ES
OTTESEN FEDERAL 07C - OWB - Plan #2	1,500.0	1,475.1	177.5	158.9	9.549	SF
OTTESEN FEDERAL 08N - OWB - Plan #2	250.0	250.0	134.8	132.0	48.265	CC
OTTESEN FEDERAL 08N - OWB - Plan #2	600.0	599.6	136.0	130.8	26.138	ES
OTTESEN FEDERAL 08N - OWB - Plan #2	1,500.0	1,475.6	187.3	169.2	10.342	SF
OTTESEN FEDERAL 09N - OWB - Plan #2	250.0	250.0	145.2	142.4	51.967	CC
OTTESEN FEDERAL 09N - OWB - Plan #2	500.0	500.7	146.2	141.6	32.159	ES
OTTESEN FEDERAL 09N - OWB - Plan #2	9,800.0	8,327.1	1,555.2	1,408.1	10.571	SF
OTTESEN FEDERAL 10NA - OWB - Plan #2	250.0	250.0	156.0	153.2	55.853	CC
OTTESEN FEDERAL 10NA - OWB - Plan #2	400.0	400.9	156.5	152.7	40.963	ES
OTTESEN FEDERAL 10NA - OWB - Plan #2	10,100.0	8,447.1	1,657.4	1,501.1	10.604	SF
OTTESEN FEDERAL 11C - OWB - OWB	239.0	239.1	166.7	163.8	57.954	CC
OTTESEN FEDERAL 11C - OWB - OWB	300.0	299.8	167.0	163.8	51.830	ES
OTTESEN FEDERAL 11C - OWB - OWB	1,700.0	1,736.0	261.0	242.0	13.741	SF
OTTESEN FEDERAL 11C - OWB - Plan #2	2,322.6	2,392.1	163.1	139.8	6.996	CC, ES
OTTESEN FEDERAL 11C - OWB - Plan #2	2,400.0	2,463.6	165.8	141.8	6.896	SF
OTTESEN FEDERAL 12N - OWB - OWB	0.0	0.0	180.1			
OTTESEN FEDERAL 12N - OWB - OWB	300.0	300.3	180.9	177.9	59.612	ES
OTTESEN FEDERAL 12N - OWB - OWB	1,700.0	1,742.0	391.2	372.6	20.999	SF
OTTESEN FEDERAL 12N - OWB - Plan #1	3,330.4	3,458.5	71.1	36.2	2.039	CC, ES, SF
OTTESEN FEDERAL 13HN - OWB - Plan #2	250.0	250.0	192.8	190.0	69.017	CC
OTTESEN FEDERAL 13HN - OWB - Plan #2	400.0	402.5	193.6	189.6	48.594	ES

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

PDC Energy Inc.
Anticollision Summary Report

Company:	GWP - PLANNING DB	Local Co-ordinate Reference:	Well OTTESEN 25N
Project:	WELD COUNTY	TVD Reference:	KB 20' @ 5096.0usft
Reference Site:	Ottesen Pad	MD Reference:	KB 20' @ 5096.0usft
Site Error:	0.0 usft	North Reference:	True
Reference Well:	OTTESEN 25N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

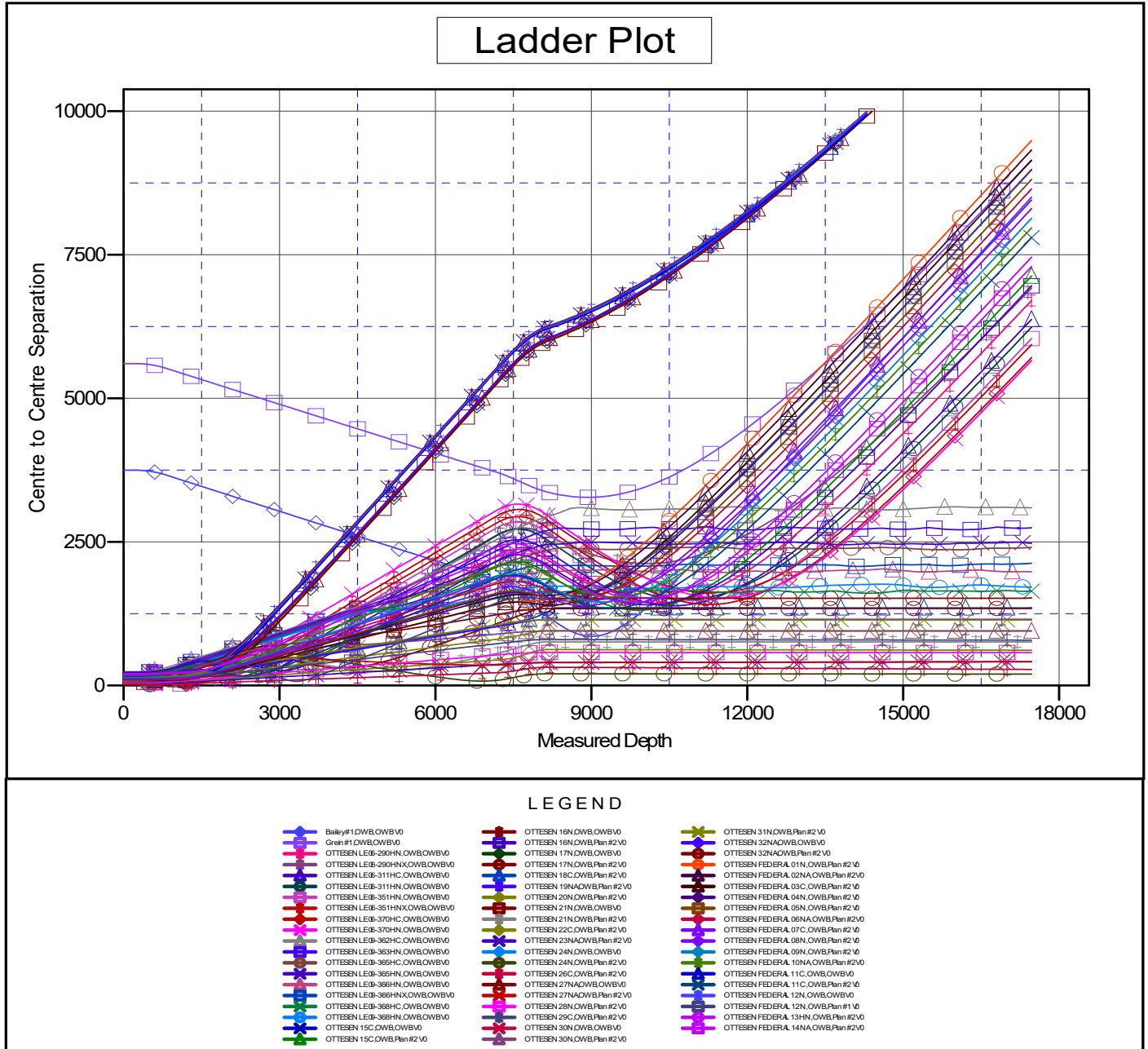
Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Ottesen Pad						
OTTESEN FEDERAL 13HN - OWB - Plan #2	10,400.0	8,643.9	1,533.2	1,367.7	9.266	SF
OTTESEN FEDERAL 14NA - OWB - Plan #2	250.0	250.0	205.6	202.8	73.607	CC
OTTESEN FEDERAL 14NA - OWB - Plan #2	400.0	402.9	206.6	202.5	51.170	ES
OTTESEN FEDERAL 14NA - OWB - Plan #2	10,700.0	8,790.3	1,627.6	1,452.7	9.303	SF

PDC Energy Inc.
Anticollision Summary Report

Company:	GWP - PLANNING DB	Local Co-ordinate Reference:	Well OTTESEN 25N
Project:	WELD COUNTY	TVD Reference:	KB 20' @ 5096.0usft
Reference Site:	Ottesen Pad	MD Reference:	KB 20' @ 5096.0usft
Site Error:	0.0 usft	North Reference:	True
Reference Well:	OTTESEN 25N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB 20' @ 5096.0usft
Offset Depths are relative to Offset Datum
Central Meridian is 105° 30' 0.000 W

Coordinates are relative to: OTTESEN 25N
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.47°



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

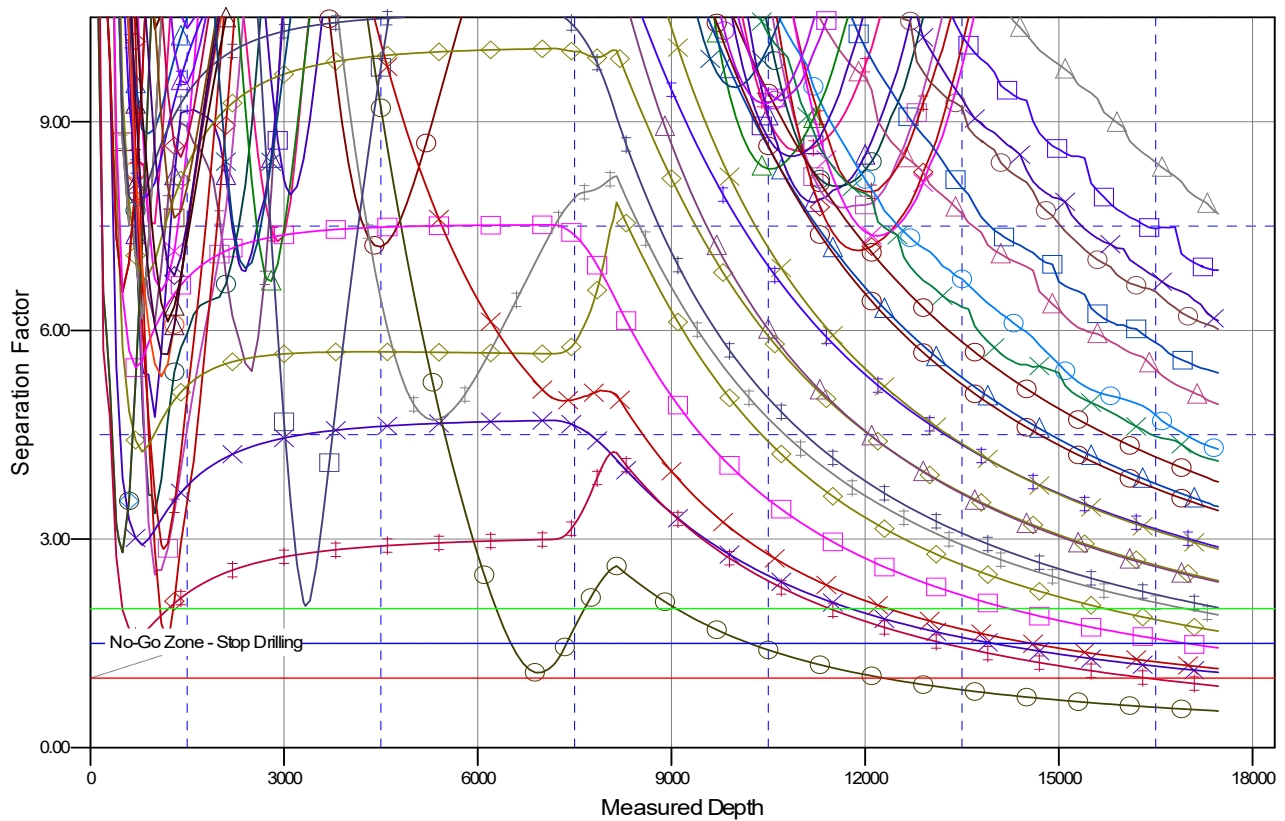
PDC Energy Inc.
Anticollision Summary Report

Company:	GWP - PLANNING DB	Local Co-ordinate Reference:	Well OTTESSEN 25N
Project:	WELD COUNTY	TVD Reference:	KB 20' @ 5096.0usft
Reference Site:	Ottesen Pad	MD Reference:	KB 20' @ 5096.0usft
Site Error:	0.0 usft	North Reference:	True
Reference Well:	OTTESSEN 25N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB 20' @ 5096.0usft
Offset Depths are relative to Offset Datum
Central Meridian is 105° 30' 0.000 W

Coordinates are relative to: OTTESSEN 25N
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.47°

Separation Factor Plot



LEGEND

● Bailey#1.OWB,OWB#0	● OTTESSEN 16N,OWB,OWB#0	● OTTESSEN 31N,OWB,Plan#2 V0
● Green#1.OWB,OWB#0	● OTTESSEN 16N,OWB,Plan#2 V0	● OTTESSEN 32N,OWB,OWB#0
● OTTESSEN LE03-250HN,OWB,OWB#0	● OTTESSEN 17N,OWB,OWB#0	● OTTESSEN 32N,OWB,Plan#2 V0
● OTTESSEN LE03-311HC,OWB,OWB#0	● OTTESSEN 17N,OWB,Plan#2 V0	● OTTESSEN FEDERAL 01N,OWB,Plan#2 V0
● OTTESSEN LE03-311HN,OWB,OWB#0	● OTTESSEN 18C,OWB,Plan#2 V0	● OTTESSEN FEDERAL 02N,OWB,Plan#2 V0
● OTTESSEN LE03-351HN,OWB,OWB#0	● OTTESSEN 18N,OWB,Plan#2 V0	● OTTESSEN FEDERAL 03C,OWB,Plan#2 V0
● OTTESSEN LE03-351HN,OWB,OWB#0	● OTTESSEN 20N,OWB,Plan#2 V0	● OTTESSEN FEDERAL 04N,OWB,Plan#2 V0
● OTTESSEN LE03-370HC,OWB,OWB#0	● OTTESSEN 21N,OWB,OWB#0	● OTTESSEN FEDERAL 05N,OWB,Plan#2 V0
● OTTESSEN LE03-370HN,OWB,OWB#0	● OTTESSEN 21N,OWB,Plan#2 V0	● OTTESSEN FEDERAL 06N,OWB,Plan#2 V0
● OTTESSEN LE03-362HC,OWB,OWB#0	● OTTESSEN 22C,OWB,Plan#2 V0	● OTTESSEN FEDERAL 07C,OWB,Plan#2 V0
● OTTESSEN LE03-363HN,OWB,OWB#0	● OTTESSEN 23N,OWB,Plan#2 V0	● OTTESSEN FEDERAL 08N,OWB,Plan#2 V0
● OTTESSEN LE03-365HC,OWB,OWB#0	● OTTESSEN 24N,OWB,OWB#0	● OTTESSEN FEDERAL 09N,OWB,Plan#2 V0
● OTTESSEN LE03-365HN,OWB,OWB#0	● OTTESSEN 24N,OWB,Plan#2 V0	● OTTESSEN FEDERAL 10N,OWB,Plan#2 V0
● OTTESSEN LE03-366HN,OWB,OWB#0	● OTTESSEN 26C,OWB,Plan#2 V0	● OTTESSEN FEDERAL 11C,OWB,OWB#0
● OTTESSEN LE03-366HN,OWB,OWB#0	● OTTESSEN 27N,OWB,OWB#0	● OTTESSEN FEDERAL 11C,OWB,Plan#2 V0
● OTTESSEN LE03-368HC,OWB,OWB#0	● OTTESSEN 27N,OWB,Plan#2 V0	● OTTESSEN FEDERAL 12N,OWB,OWB#0
● OTTESSEN LE03-368HN,OWB,OWB#0	● OTTESSEN 28N,OWB,Plan#2 V0	● OTTESSEN FEDERAL 12N,OWB,Plan#1 V0
● OTTESSEN LE03-368HN,OWB,OWB#0	● OTTESSEN 29C,OWB,Plan#2 V0	● OTTESSEN FEDERAL 13HN,OWB,Plan#2 V0
● OTTESSEN 15C,OWB,OWB#0	● OTTESSEN 30N,OWB,OWB#0	● OTTESSEN FEDERAL 14N,OWB,Plan#2 V0
● OTTESSEN 15C,OWB,Plan#2 V0	● OTTESSEN 30N,OWB,Plan#2 V0	

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