



## WELL DETAILS: EDMUNDSON 20C

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	1218055.19	3193410.24	39.929877	-104.810330

Project: WELD COUNTY  
 Site: Edmundson Pad  
 Well: EDMUNDSON 20C  
 Wellbore: OWB  
 Design: PLAN #1  
 Lat: 39.929877  
 Long: -104.810330  
 GL: 5052.0  
 KB: KB 25 @ 5077.0usft



Azimuths to Grid North  
 True North: -0.45°  
 Magnetic North: 9.48°

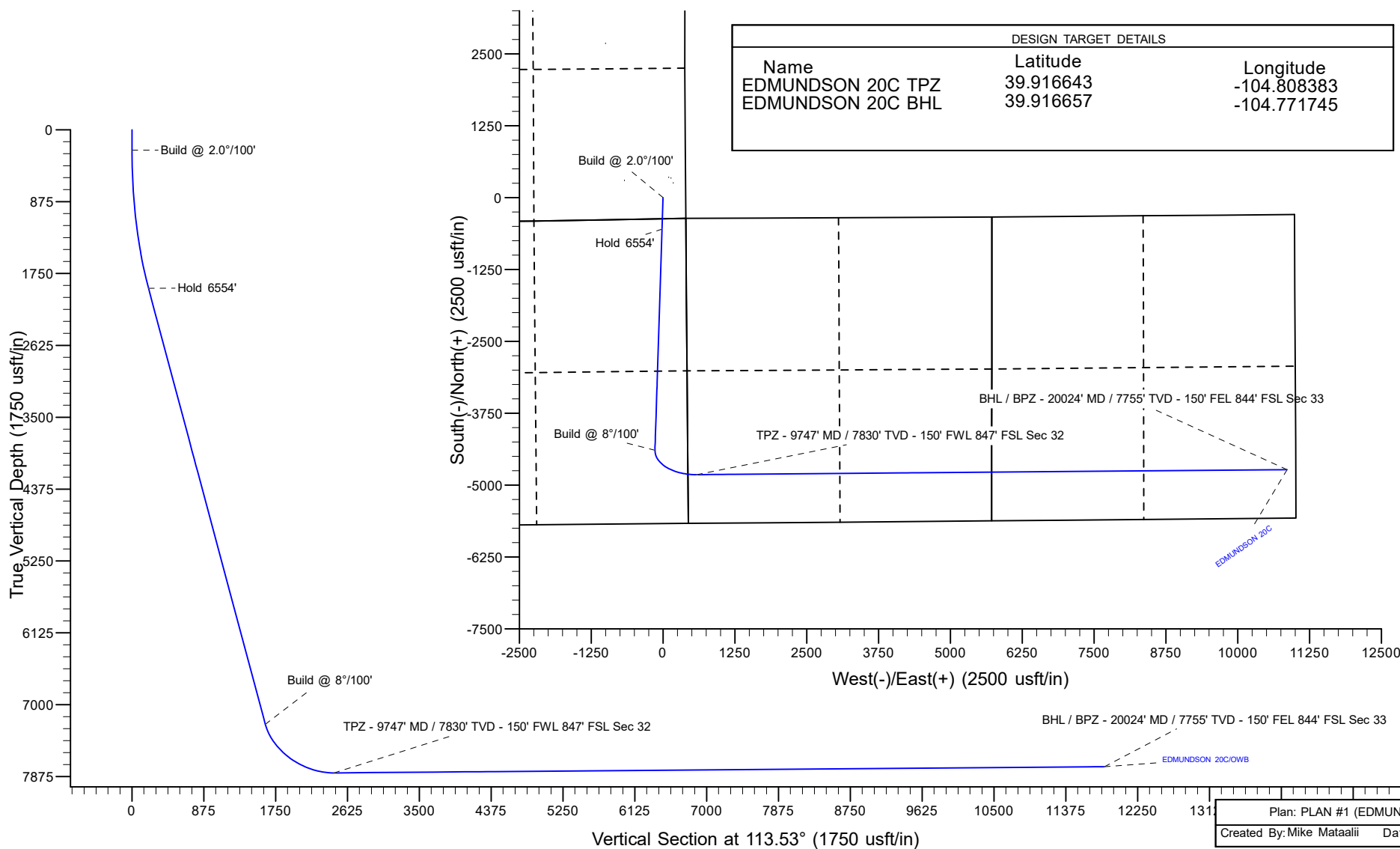
Magnetic Field  
 Strength: 53708.9nT  
 Dip Angle: 66.97°  
 Date: 12/31/2004  
 Model: IGRF2000

## 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 @ 2.0°/100'
2047.0	35.94	181.83	1931.5	-545.1	-17.4	2.00	181.83	201.6	Hold 6554'
8601.4	35.94	181.83	7238.1	-4390.1	-140.4	0.00	0.00	1624.0	Build @ 8°/100'
9747.6	90.42	89.51	7830.0	-4816.6	583.5	8.00	-91.63	2458.0	TPZ - 9747' MD / 7830' TVD - 150' FWL 847' FSL Sec 32
20024.7	90.42	89.51	7755.0	-4729.0	10860.0	0.00	0.00	11844.9	BHL / BPZ - 20024' MD / 7755' TVD - 150' FEL 844' FSL Sec 33

## DESIGN TARGET DETAILS

Name	Latitude	Longitude
EDMUNDSON 20C TPZ	39.916643	-104.808383
EDMUNDSON 20C BHL	39.916657	-104.771745



Plan: PLAN #1 (EDMUNDSON 20C/OWB)

Created By: Mike Mataalii Date: 12:20, March 14 2023

**PDC Energy Inc.**  
Anticollision Summary Report

<b>Company:</b>	PDC - PLANNING DB	<b>Local Co-ordinate Reference:</b>	Well EDMUNDSON 20C
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25 @ 5077.0usft
<b>Reference Site:</b>	Edmundson Pad	<b>MD Reference:</b>	KB 25 @ 5077.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	EDMUNDSON 20C	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM 5000.15 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Reference</b>	PLAN #1		
<b>Filter type:</b>	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
<b>Interpolation Method:</b>	Stations	<b>Error Model:</b>	ISCWSA
<b>Depth Range:</b>	Unlimited	<b>Scan Method:</b>	Closest Approach 3D
<b>Results Limited by:</b>	Maximum center-center distance of 2,500.0 usft	<b>Error Surface:</b>	Pedal Curve
<b>Warning Levels Evaluated at:</b>	2.00 Sigma	<b>Casing Method:</b>	Not applied

<b>Survey Tool Program</b>	<b>Date</b>	3/14/2023		
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.0	20,024.7	PLAN #1 (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						
Edmundson Offsets						
CUTLER 1-A - OWB - OWB	12,911.9	7,819.9	2,466.7	2,219.2	9.968	CC, ES
CUTLER 1-A - OWB - OWB	13,000.0	7,819.3	2,468.3	2,220.4	9.957	SF
CUTLER 1D - OWB - OWB						Out of range
EDMUNDSON LE 33-082HC - OWB - OWB	0.0	2.0	50.9			
EDMUNDSON LE 33-082HC - OWB - OWB	400.0	401.5	52.3	48.2	12.975	ES
EDMUNDSON LE 33-082HC - OWB - OWB	700.0	699.2	64.9	58.1	9.478	SF
ERGER 1 - OWB - OWB	12,815.0	7,835.6	64.9	-180.5	0.265	No-Go Zone - Stop Drilling, (
ERNEST H KALLSEN 2 - OWB - OWB	11,551.8	7,854.8	1,524.9	1,307.9	7.028	CC
ERNEST H KALLSEN 2 - OWB - OWB	11,600.0	7,854.5	1,525.6	1,306.4	6.958	ES
ERNEST H KALLSEN 2 - OWB - OWB	12,000.0	7,851.6	1,589.4	1,352.0	6.696	SF
ERNST H KALLSEN 1 - OWB - OWB	11,551.8	7,852.8	1,524.9	1,307.9	7.029	CC
ERNST H KALLSEN 1 - OWB - OWB	11,600.0	7,852.5	1,525.6	1,306.4	6.959	ES
ERNST H KALLSEN 1 - OWB - OWB	12,000.0	7,849.6	1,589.4	1,352.1	6.697	SF
EVERETTE DAHLINGER A1 - OWB - OWB						Out of range
FARNER 1 - OWB - OWB	14,000.0	7,817.0	1,116.4	963.8	7.316	SF
FARNER 1 - OWB - OWB	14,063.9	7,816.5	1,114.6	962.9	7.350	CC, ES
FREEMAN 1 - OWB - OWB	7,442.0	6,320.4	132.8	-43.5	0.753	No-Go Zone - Stop Drilling, (
FREEMAN 1-A - OWB - OWB	7,442.0	6,314.4	132.8	-43.4	0.754	No-Go Zone - Stop Drilling, (
GREEN 1 - OWB - OWB						Out of range
IKE 1 - OWB - OWB						Out of range
KIMMEL 12-33 - OWB - OWB						Out of range
OHD 1 - OWB - OWB	9,318.8	7,778.1	2,074.8	1,883.1	10.822	CC
OHD 1 - OWB - OWB	9,350.0	7,791.7	2,075.4	1,882.7	10.769	ES
OHD 1 - OWB - OWB	9,600.0	7,864.8	2,126.9	1,925.9	10.581	SF
PC 1S-66-2928 - OWB - OWB	287.9	323.8	2,236.5	2,233.2	683.966	CC
PC 1S-66-2928 - OWB - OWB	300.0	333.9	2,236.5	2,233.2	675.405	ES
PC 1S-66-2928 - OWB - OWB	1,700.0	1,692.7	2,493.7	2,480.6	190.676	SF
PC 1S-66-2928 14CDH - OWB - OWB	0.0	17.0	2,203.3			
PC 1S-66-2928 14CDH - OWB - OWB	200.0	198.8	2,204.3	2,201.7	853.215	ES
PC 1S-66-2928 14CDH - OWB - OWB	2,200.0	2,579.8	2,488.5	2,466.6	113.460	SF
PC 1S-66-2928 17NH - OWB - OWB	0.0	17.0	2,182.8			
PC 1S-66-2928 17NH - OWB - OWB	280.3	312.3	2,184.4	2,181.5	746.079	ES
PC 1S-66-2928 17NH - OWB - OWB	2,800.0	3,294.0	2,475.5	2,444.2	79.112	SF
PC 1S-66-2928 17NH - ST01 - ST01	0.0	17.0	2,182.8			
PC 1S-66-2928 17NH - ST01 - ST01	280.3	312.3	2,184.4	2,181.5	746.079	ES
PC 1S-66-2928 17NH - ST01 - ST01	2,800.0	3,294.0	2,475.5	2,444.2	79.112	SF
PC 1S-66-2928 19NH - OWB - OWB	1,644.3	2,388.1	2,009.7	1,989.4	99.359	CC, ES

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

**PDC Energy Inc.**  
Anticollision Summary Report

<b>Company:</b>	PDC - PLANNING DB	<b>Local Co-ordinate Reference:</b>	Well EDMUNDSON 20C
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25 @ 5077.0usft
<b>Reference Site:</b>	Edmundson Pad	<b>MD Reference:</b>	KB 25 @ 5077.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	EDMUNDSON 20C	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM 5000.15 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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						
Edmundson Offsets						
PC 1S-66-2928 19NH - OWB - OWB	3,800.0	4,174.2	2,477.8	2,432.3	54.543	SF
PC 1S-66-2928 20CDH - OWB - OWB	1,718.6	2,459.4	1,940.3	1,917.5	85.247	CC, ES
PC 1S-66-2928 20CDH - OWB - OWB	4,600.0	5,040.3	2,489.7	2,432.2	43.348	SF
PC 1S-66-2928 9NH - OWB - OWB	0.0	15.0	2,016.1			
PC 1S-66-2928 9NH - OWB - OWB	200.0	201.5	2,017.1	2,014.5	777.879	ES
PC 1S-66-2928 9NH - OWB - OWB	2,100.0	1,841.0	2,466.6	2,448.9	139.154	SF
POLLARD 1 - OWB - OWB						Out of range
PRAIRIE LE 31-369HC - OWB - OWB	8,767.9	18,407.1	1,821.3	1,573.6	7.352	CC
PRAIRIE LE 31-369HC - OWB - OWB	8,800.0	18,421.5	1,822.3	1,573.0	7.309	ES
PRAIRIE LE 31-369HC - OWB - OWB	8,950.0	18,470.4	1,851.0	1,594.9	7.229	SF
REASONER 1 - OWB - OWB	10,893.4	7,863.6	129.4	-74.6	0.634	No-Go Zone - Stop Drilling, (
REASONER 1-A - OWB - OWB	11,500.0	7,866.2	1,117.8	899.5	5.121	SF
REASONER 1-A - OWB - OWB	11,561.6	7,865.8	1,116.1	898.7	5.134	CC, ES
REASONER 1A-X - OWB - OWB	10,893.4	7,871.6	129.4	-74.8	0.634	No-Go Zone - Stop Drilling, (
SUPERS 1 - OWB - OWB	5,052.0	4,374.4	1,130.7	1,012.9	9.599	CC
SUPERS 1 - OWB - OWB	5,100.0	4,413.3	1,131.0	1,012.1	9.508	ES
SUPERS 1 - OWB - OWB	5,700.0	4,899.0	1,192.9	1,060.8	9.031	SF

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<b>Reference Site:</b>	Edmundson Pad	<b>MD Reference:</b>	KB 25 @ 5077.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	EDMUNDSON 20C	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM 5000.15 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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						
Edmundson Pad						
EDMUNDSON 01N - OWB - PLAN #1	665.4	673.6	105.2	97.8	14.243	CC
EDMUNDSON 01N - OWB - PLAN #1	700.0	708.1	105.3	97.6	13.589	ES
EDMUNDSON 01N - OWB - PLAN #1	1,000.0	1,005.5	122.6	111.2	10.713	SF
EDMUNDSON 02N - OWB - PLAN #1	724.9	733.9	93.8	85.2	10.937	CC
EDMUNDSON 02N - OWB - PLAN #1	800.0	808.9	94.5	85.1	10.034	ES
EDMUNDSON 02N - OWB - PLAN #1	1,100.0	1,106.1	116.4	103.1	8.732	SF
EDMUNDSON 03N - OWB - PLAN #1	776.8	786.6	83.2	74.1	9.146	CC
EDMUNDSON 03N - OWB - PLAN #1	800.0	809.8	83.2	73.9	8.901	ES
EDMUNDSON 03N - OWB - PLAN #1	1,100.0	1,108.1	99.8	86.5	7.513	SF
EDMUNDSON 04NA - OWB - PLAN #1	852.3	863.4	72.9	62.5	7.004	CC
EDMUNDSON 04NA - OWB - PLAN #1	900.0	911.0	73.2	62.3	6.679	ES
EDMUNDSON 04NA - OWB - PLAN #1	1,100.0	1,110.2	82.6	69.0	6.066	SF
EDMUNDSON 05N - OWB - PLAN #1	985.0	998.2	63.6	51.1	5.087	CC
EDMUNDSON 05N - OWB - PLAN #1	1,000.0	1,013.2	63.6	51.0	5.020	ES
EDMUNDSON 05N - OWB - PLAN #1	1,200.0	1,212.8	71.1	55.8	4.652	SF
EDMUNDSON 06N - OWB - PLAN #1	1,040.6	1,054.7	56.4	42.2	3.982	CC
EDMUNDSON 06N - OWB - PLAN #1	1,100.0	1,114.0	57.0	42.1	3.825	ES
EDMUNDSON 06N - OWB - PLAN #1	1,200.0	1,213.9	60.7	44.5	3.764	SF
EDMUNDSON 07NA - OWB - PLAN #1	1,135.0	1,150.6	50.8	34.9	3.206	CC, ES
EDMUNDSON 07NA - OWB - PLAN #1	1,200.0	1,215.5	51.5	35.0	3.116	SF
EDMUNDSON 08C - OWB - PLAN #1	1,158.1	1,173.9	48.2	31.8	2.935	CC
EDMUNDSON 08C - OWB - PLAN #1	1,200.0	1,215.8	48.5	31.7	2.883	ES, SF
EDMUNDSON 09N - OWB - PLAN #1	1,264.3	1,281.7	47.7	30.2	2.725	CC
EDMUNDSON 09N - OWB - PLAN #1	1,300.0	1,317.4	47.9	30.1	2.688	ES, SF
EDMUNDSON 10N - OWB - PLAN #1	1,327.9	1,346.1	50.2	32.7	2.869	CC, ES
EDMUNDSON 10N - OWB - PLAN #1	1,400.0	1,418.2	51.0	32.8	2.809	SF
EDMUNDSON 11NA - OWB - PLAN #1	1,444.0	1,463.9	54.6	36.9	3.083	CC
EDMUNDSON 11NA - OWB - PLAN #1	1,500.0	1,519.9	55.0	36.8	3.013	ES
EDMUNDSON 11NA - OWB - PLAN #1	1,600.0	1,619.9	58.1	38.6	2.982	SF
EDMUNDSON 12C - OWB - PLAN #1	1,465.9	1,486.0	60.7	43.7	3.575	CC
EDMUNDSON 12C - OWB - PLAN #1	1,500.0	1,520.1	60.9	43.5	3.510	ES
EDMUNDSON 12C - OWB - PLAN #1	20,024.7	19,194.1	1,690.5	1,103.5	2.880	SF
EDMUNDSON 13N - OWB - PLAN #1	1,871.3	1,874.3	79.6	60.8	4.247	CC
EDMUNDSON 13N - OWB - PLAN #1	2,000.0	2,002.0	81.8	60.3	3.806	ES
EDMUNDSON 13N - OWB - PLAN #1	20,024.7	19,043.3	1,496.2	920.7	2.600	SF
EDMUNDSON 14N - OWB - PLAN #1	1,905.5	1,908.0	69.6	50.3	3.609	CC
EDMUNDSON 14N - OWB - PLAN #1	2,000.0	2,001.9	70.7	49.4	3.318	ES
EDMUNDSON 14N - OWB - PLAN #1	20,024.7	19,226.5	1,279.2	701.7	2.215	SF
EDMUNDSON 15NA - OWB - PLAN #1	1,999.3	2,001.4	58.7	37.8	2.804	CC
EDMUNDSON 15NA - OWB - PLAN #1	2,100.0	2,101.6	59.8	36.7	2.589	ES
EDMUNDSON 15NA - OWB - PLAN #1	20,024.7	19,147.4	1,117.8	569.3	2.038	SF
EDMUNDSON 16C - OWB - PLAN #1	1,969.6	1,971.1	50.3	29.9	2.467	CC
EDMUNDSON 16C - OWB - PLAN #1	2,047.0	2,048.3	50.9	28.9	2.310	ES
EDMUNDSON 16C - OWB - PLAN #1	20,024.7	19,562.9	845.3	258.8	1.441	Collision Avoidance Req., SF
EDMUNDSON 17N - OWB - PLAN #1	2,037.8	2,038.7	29.3	7.6	1.352	Collision Avoidance Req., CC
EDMUNDSON 17N - OWB - PLAN #1	2,200.0	2,200.6	30.7	5.5	1.218	Collision Avoidance Req., ES
EDMUNDSON 17N - OWB - PLAN #1	2,300.0	2,300.5	32.8	5.6	1.204	Collision Avoidance Req., SF
EDMUNDSON 18N - OWB - PLAN #1	2,059.7	2,060.2	19.4	-2.6	0.882	No-Go Zone - Stop Drilling, CC
EDMUNDSON 18N - OWB - PLAN #1	2,300.0	2,300.4	21.4	-5.8	0.787	No-Go Zone - Stop Drilling, ES
EDMUNDSON 18N - OWB - PLAN #1	20,024.7	19,658.8	451.9	-91.2	0.832	No-Go Zone - Stop Drilling, SF
EDMUNDSON 19NA - OWB - PLAN #1	2,879.6	2,879.9	8.2	-29.3	0.220	No-Go Zone - Stop Drilling, CC
EDMUNDSON 19NA - OWB - PLAN #1	3,400.0	3,400.2	8.8	-35.5	0.200	No-Go Zone - Stop Drilling, ES
EDMUNDSON 19NA - OWB - PLAN #1	8,400.0	8,397.1	39.2	-78.5	0.333	No-Go Zone - Stop Drilling, SF

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

**PDC Energy Inc.**  
Anticollision Summary Report

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<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

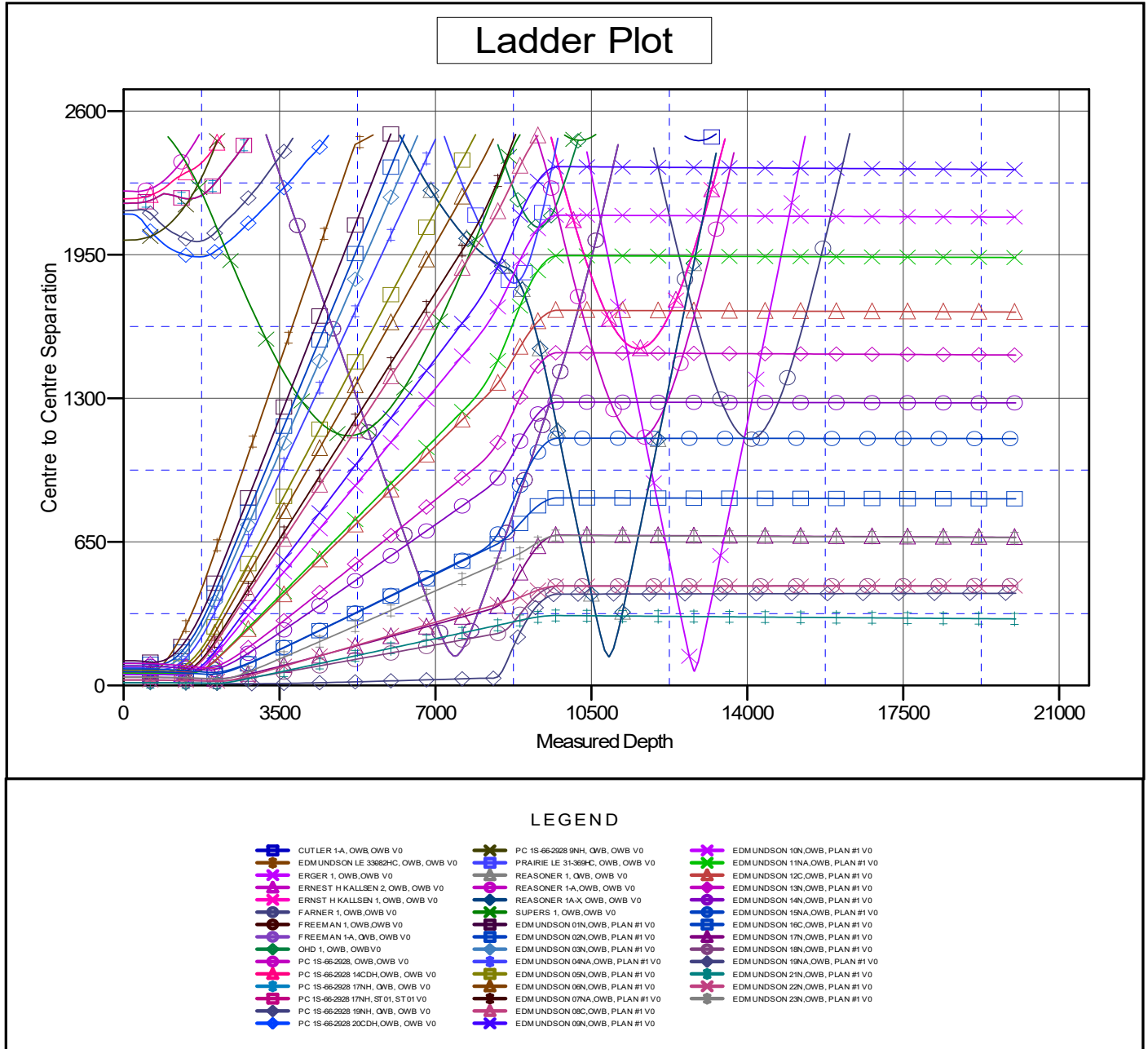
Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Edmundson Pad						
EDMUNDSON 21N - OWB - PLAN #1	2,115.7	2,115.5	9.8	-13.3	0.426	No-Go Zone - Stop Drilling, C
EDMUNDSON 21N - OWB - PLAN #1	2,200.0	2,199.7	10.4	-14.8	0.414	No-Go Zone - Stop Drilling, S
EDMUNDSON 21N - OWB - PLAN #1	20,024.7	19,963.1	301.5	-165.0	0.646	No-Go Zone - Stop Drilling, E
EDMUNDSON 22N - OWB - PLAN #1	2,156.9	2,156.4	20.0	-4.0	0.834	No-Go Zone - Stop Drilling, C
EDMUNDSON 22N - OWB - PLAN #1	20,024.7	20,163.5	450.2	-119.4	0.790	No-Go Zone - Stop Drilling, E
EDMUNDSON 23N - OWB - PLAN #1	2,192.5	2,191.9	29.9	5.2	1.212	Collision Avoidance Req., C
EDMUNDSON 23N - OWB - PLAN #1	2,300.0	2,298.8	31.1	4.0	1.149	Collision Avoidance Req., E

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<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to KB 25 @ 5077.0usft  
Offset Depths are relative to Offset Datum  
Central Meridian is -105.500000

Coordinates are relative to: EDMUNDSON 20C  
Coordinate System is US State Plane 1983, Colorado Northern Zone  
Grid Convergence at Surface is: 0.45°



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

# PDC Energy Inc.

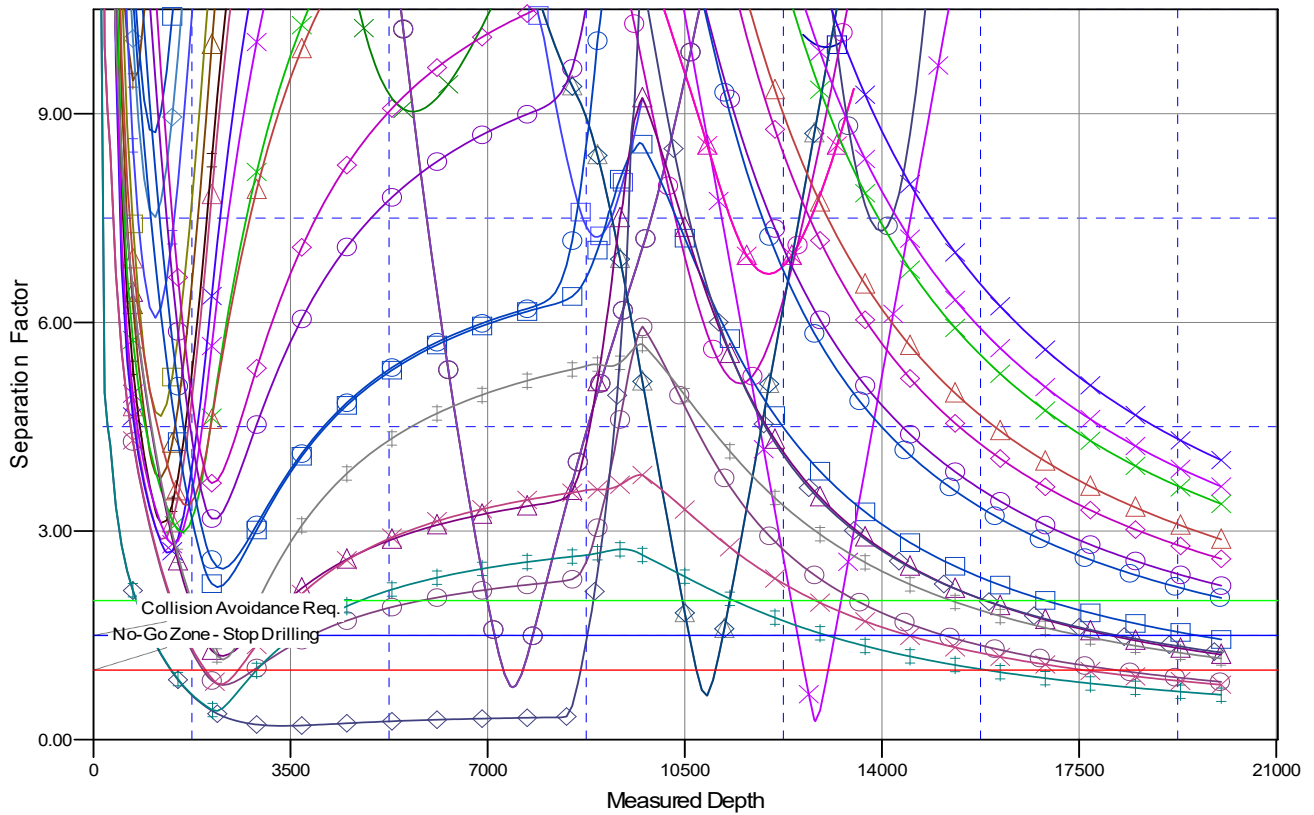
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<b>Company:</b>	PDC - PLANNING DB	<b>Local Co-ordinate Reference:</b>	Well EDMUNDSON 20C
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25 @ 5077.0usft
<b>Reference Site:</b>	Edmundson Pad	<b>MD Reference:</b>	KB 25 @ 5077.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	EDMUNDSON 20C	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDM 5000.15 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to KB 25 @ 5077.0usft  
 Offset Depths are relative to Offset Datum  
 Central Meridian is -105.500000

Coordinates are relative to: EDMUNDSON 20C  
 Coordinate System is US State Plane 1983, Colorado Northern Zone  
 Grid Convergence at Surface is: 0.45°

### Separation Factor Plot



#### LEGEND

CUTLER 1-A, OWB, OWB V0	PC 1S-66-2928 9NH, OWB, OWB V0	EDMUNDSON 10N, OWB, PLAN #1 V0
EDMUNDSON LE 3382HC, OWB, OWB V0	PRAIRIE LE 31-369C, OWB, OWB V0	EDMUNDSON 11NA, OWB, PLAN #1 V0
ERGER 1, OWB, OWB V0	REASONER 1, OWB, OWB V0	EDMUNDSON 12C, OWB, PLAN #1 V0
ERNEST H KALLSEN 2, OWB, OWB V0	REASONER 1A, OWB, OWB V0	EDMUNDSON 13N, OWB, PLAN #1 V0
ERNEST H KALLSEN 1, OWB, OWB V0	REASONER 1A-X, OWB, OWB V0	EDMUNDSON 14N, OWB, PLAN #1 V0
FARNER 1, OWB, OWB V0	SUPERS 1, OWB, OWB V0	EDMUNDSON 15NA, OWB, PLAN #1 V0
FREEMAN 1-A, OWB, OWB V0	EDMUNDSON 01N, OWB, PLAN #1 V0	EDMUNDSON 16C, OWB, PLAN #1 V0
FREEMAN 1-A, OWB, OWB V0	EDMUNDSON 02N, OWB, PLAN #1 V0	EDMUNDSON 17N, OWB, PLAN #1 V0
QHD 1, OWB, OWB V0	EDMUNDSON 03N, OWB, PLAN #1 V0	EDMUNDSON 18N, OWB, PLAN #1 V0
PC 1S-66-2928 14CDH, OWB, OWB V0	EDMUNDSON 04NA, OWB, PLAN #1 V0	EDMUNDSON 19NA, OWB, PLAN #1 V0
PC 1S-66-2928 17NH, OWB, OWB V0	EDMUNDSON 05N, OWB, PLAN #1 V0	EDMUNDSON 21N, OWB, PLAN #1 V0
PC 1S-66-2928 17NH, ST01, ST01 V0	EDMUNDSON 07NA, OWB, PLAN #1 V0	EDMUNDSON 22N, OWB, PLAN #1 V0
PC 1S-66-2928 19NH, OWB, OWB V0	EDMUNDSON 08C, OWB, PLAN #1 V0	EDMUNDSON 23N, OWB, PLAN #1 V0
PC 1S-66-2928 20CDH, OWB, OWB V0	EDMUNDSON 09N, OWB, PLAN #1 V0	

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