



Project: WELD COUNTY  
Site: Edmundson Pad  
Well: EDMUNDSON 17N  
Wellbore: OWB  
Design: PLAN #1  
Lat: 39.929877  
Long: -104.810196  
GL: 5052.0  
KB: KB 25 @ 5077.0usft



Azimuths to Grid North  
True North:  $-0.45^\circ$   
Magnetic North:  $9.48^\circ$

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

## WELL DETAILS: EDMUNDSON 17N

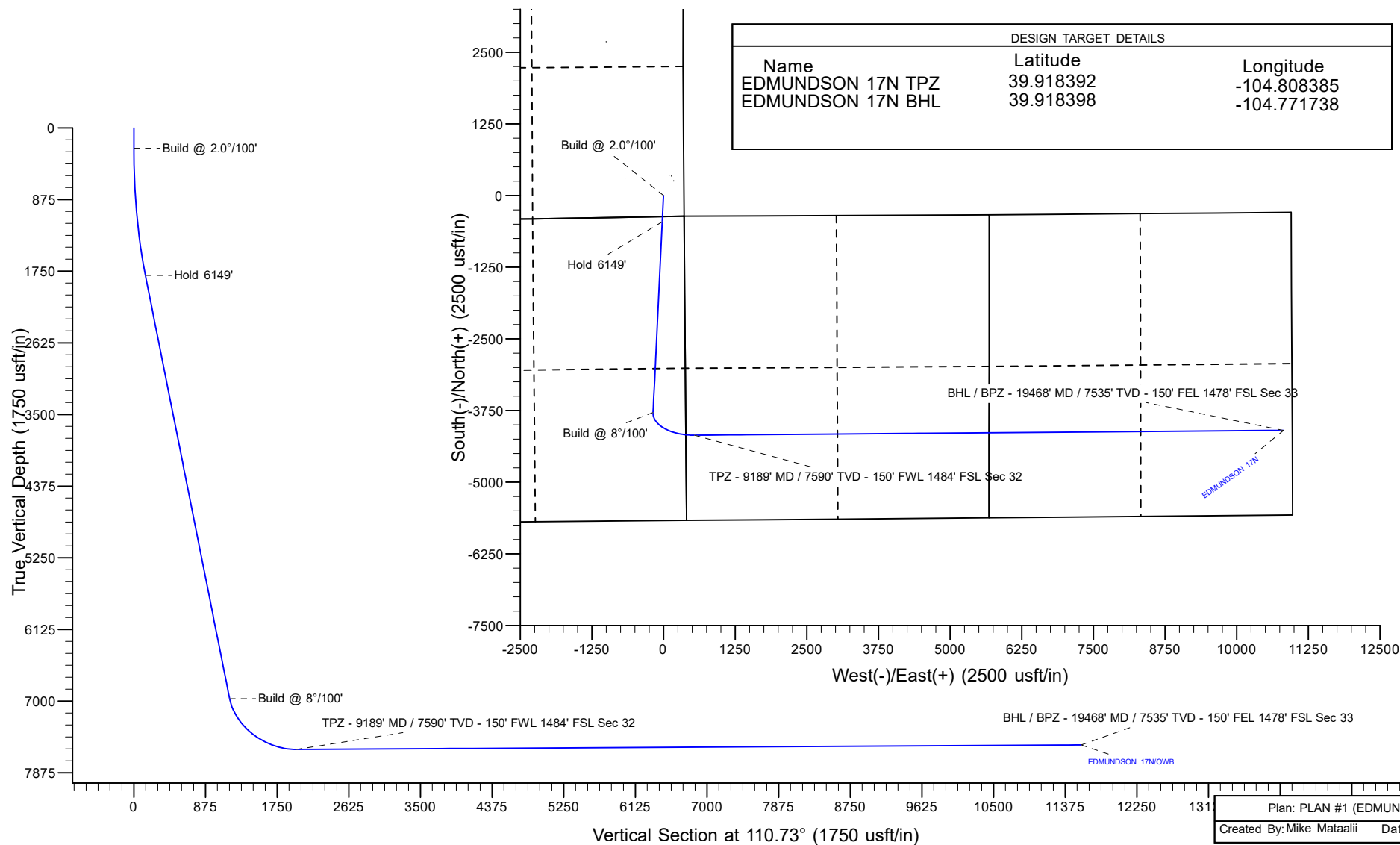
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	1218055.19	3193447.74	39.929877	-104.810196

## SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	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'
1890.3	32.81	182.75	1802.2	-456.4	-21.9	2.00	182.75	141.1	Hold 6149'
8039.5	32.81	182.75	6970.6	-3784.2	-181.8	0.00	0.00	1169.5	Build @ 8°/100'
9189.6	90.31	89.53	7590.0	-4179.5	540.6	8.00	-92.54	1985.0	TPZ - 9189' MD / 7590' TVD - 150' FWL 1484' FSL Sec 32
19468.9	90.31	89.53	7530.0	-4095.0	10819.4	0.00	0.00	11568.4	BHL / BPZ - 19468' MD / 7535' TVD - 150' FEL 1478' FSL Sec 33

## DESIGN TARGET DETAILS

Name	Latitude	Longitude
EDMUNDSON 17N TPZ	39.918392	-104.808385
EDMUNDSON 17N BHL	39.918398	-104.771738



**PDC Energy Inc.**  
Anticollision Summary Report

<b>Company:</b>	PDC - PLANNING DB	<b>Local Co-ordinate Reference:</b>	Well EDMUNDSON 17N
<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 17N	<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	19,468.9	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
Edmundson Offsets						
CUTLER 1-A - OWB - OWB	12,353.2	7,586.1	1,830.5	1,588.6	7.567	CC, ES
CUTLER 1-A - OWB - OWB	12,400.0	7,585.8	1,831.1	1,589.1	7.567	SF
CUTLER 1D - OWB - OWB						Out of range
EDMUNDSON LE 33-082HC - OWB - OWB	0.0	2.0	14.3			
EDMUNDSON LE 33-082HC - OWB - OWB	400.0	401.8	14.9	10.9	3.696	ES
EDMUNDSON LE 33-082HC - OWB - OWB	500.0	501.5	17.0	12.0	3.402	SF
ERGER 1 - OWB - OWB	12,257.1	7,601.6	701.1	461.3	2.923	CC
ERGER 1 - OWB - OWB	12,300.0	7,601.4	702.4	459.3	2.889	ES
ERGER 1 - OWB - OWB	12,400.0	7,600.8	715.5	465.9	2.867	SF
ERNEST H KALLSEN 2 - OWB - OWB	10,994.4	7,618.3	2,161.4	1,950.5	10.245	CC
ERNEST H KALLSEN 2 - OWB - OWB	11,100.0	7,617.8	2,164.0	1,949.1	10.067	ES
ERNEST H KALLSEN 2 - OWB - OWB	11,700.0	7,614.6	2,273.7	2,037.9	9.642	SF
ERNST H KALLSEN 1 - OWB - OWB	10,994.4	7,616.3	2,161.4	1,950.5	10.247	CC
ERNST H KALLSEN 1 - OWB - OWB	11,100.0	7,615.8	2,164.0	1,949.1	10.069	ES
ERNST H KALLSEN 1 - OWB - OWB	11,700.0	7,612.6	2,273.7	2,037.9	9.643	SF
EVERETTE DAHLINGER A1 - OWB - OWB						Out of range
FARNER 1 - OWB - OWB	13,500.0	7,584.9	478.8	328.3	3.182	ES, SF
FARNER 1 - OWB - OWB	13,505.7	7,584.9	478.8	328.6	3.188	CC
FREEMAN 1 - OWB - OWB	7,904.3	6,877.9	110.7	-75.4	0.595	No-Go Zone - Stop Drilling, (
FREEMAN 1-A - OWB - OWB	7,904.3	6,871.9	110.7	-75.3	0.595	No-Go Zone - Stop Drilling, (
GREEN 1 - OWB - OWB						Out of range
IKE 1 - OWB - OWB	19,468.9	7,593.0	2,422.4	2,148.3	8.840	CC, ES, SF
KIMMEL 12-33 - OWB - OWB	15,041.6	7,585.7	1,990.5	1,680.8	6.427	CC, ES
KIMMEL 12-33 - OWB - OWB	15,100.0	7,585.4	1,991.4	1,681.5	6.426	SF
OHD 1 - OWB - OWB						Out of range
PC 1S-66-2928 - OWB - OWB	287.3	323.1	2,208.0	2,204.7	675.599	CC
PC 1S-66-2928 - OWB - OWB	300.0	333.7	2,208.0	2,204.7	666.627	ES
PC 1S-66-2928 - OWB - OWB	1,700.0	1,691.1	2,471.9	2,458.7	187.884	SF
PC 1S-66-2928 14CDH - OWB - OWB	0.0	17.0	2,174.4			
PC 1S-66-2928 14CDH - OWB - OWB	200.0	199.0	2,175.4	2,172.8	841.937	ES
PC 1S-66-2928 14CDH - OWB - OWB	2,300.0	2,658.0	2,492.5	2,469.8	109.840	SF
PC 1S-66-2928 17NH - OWB - OWB	0.0	17.0	2,153.6			
PC 1S-66-2928 17NH - OWB - OWB	279.3	310.9	2,155.2	2,152.3	736.800	ES
PC 1S-66-2928 17NH - OWB - OWB	3,000.0	3,459.9	2,475.8	2,442.7	74.873	SF
PC 1S-66-2928 17NH - ST01 - ST01	0.0	17.0	2,153.6			
PC 1S-66-2928 17NH - ST01 - ST01	279.3	310.9	2,155.2	2,152.3	736.800	ES
PC 1S-66-2928 17NH - ST01 - ST01	3,000.0	3,459.9	2,475.8	2,442.7	74.873	SF

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

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<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	1,627.7	2,370.6	1,987.7	1,967.6	98.888	CC, ES
PC 1S-66-2928 19NH - OWB - OWB	4,300.0	4,782.0	2,499.1	2,447.3	48.263	SF
PC 1S-66-2928 20CDH - OWB - OWB	1,584.4	2,260.3	1,917.8	1,897.1	92.625	CC
PC 1S-66-2928 20CDH - OWB - OWB	1,700.5	2,441.0	1,918.1	1,895.5	84.881	ES
PC 1S-66-2928 20CDH - OWB - OWB	5,200.0	5,574.0	2,487.4	2,424.2	39.329	SF
PC 1S-66-2928 9NH - OWB - OWB	0.0	15.0	1,987.2			
PC 1S-66-2928 9NH - OWB - OWB	200.0	201.6	1,988.2	1,985.6	766.619	ES
PC 1S-66-2928 9NH - OWB - OWB	2,200.0	1,873.9	2,498.1	2,479.8	136.121	SF
POLLARD 1 - OWB - OWB						Out of range
PRAIRIE LE 31-369HC - OWB - OWB	8,263.4	17,724.6	1,913.3	1,691.7	8.634	CC
PRAIRIE LE 31-369HC - OWB - OWB	8,300.0	17,747.9	1,914.4	1,691.0	8.570	ES
PRAIRIE LE 31-369HC - OWB - OWB	8,450.0	17,860.8	1,942.8	1,712.8	8.445	SF
REASONER 1 - OWB - OWB	10,335.5	7,625.9	507.4	309.7	2.567	CC
REASONER 1 - OWB - OWB	10,400.0	7,625.5	511.5	308.7	2.523	ES, SF
REASONER 1-A - OWB - OWB	11,000.0	7,629.3	479.5	268.0	2.267	ES, SF
REASONER 1-A - OWB - OWB	11,003.4	7,629.3	479.5	268.2	2.269	CC
REASONER 1A-X - OWB - OWB	10,335.5	7,633.9	507.4	309.6	2.565	CC
REASONER 1A-X - OWB - OWB	10,400.0	7,633.5	511.5	308.6	2.521	ES, SF
SUPERS 1 - OWB - OWB	5,278.2	4,659.7	1,130.1	1,007.6	9.226	CC
SUPERS 1 - OWB - OWB	5,400.0	4,762.0	1,132.0	1,006.6	9.028	ES
SUPERS 1 - OWB - OWB	6,000.0	5,266.3	1,195.8	1,057.4	8.637	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 17N	<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
Edmundson Pad						
EDMUNDSON 01N - OWB - PLAN #1	601.8	608.5	75.8	68.3	10.072	CC, ES
EDMUNDSON 01N - OWB - PLAN #1	900.0	905.2	90.9	79.9	8.223	SF
EDMUNDSON 02N - OWB - PLAN #1	661.3	669.0	66.5	57.4	7.339	CC
EDMUNDSON 02N - OWB - PLAN #1	700.0	707.6	66.7	57.2	6.984	ES
EDMUNDSON 02N - OWB - PLAN #1	900.0	906.9	76.2	64.3	6.403	SF
EDMUNDSON 03N - OWB - PLAN #1	715.1	723.6	58.8	48.9	5.920	CC, ES
EDMUNDSON 03N - OWB - PLAN #1	900.0	908.2	64.8	52.7	5.387	SF
EDMUNDSON 04NA - OWB - PLAN #1	792.9	802.7	53.0	41.4	4.602	CC
EDMUNDSON 04NA - OWB - PLAN #1	800.0	809.7	53.0	41.4	4.573	ES
EDMUNDSON 04NA - OWB - PLAN #1	900.0	909.7	55.0	42.4	4.357	SF
EDMUNDSON 05N - OWB - PLAN #1	934.3	946.3	49.5	35.8	3.622	CC, ES
EDMUNDSON 05N - OWB - PLAN #1	1,000.0	1,012.0	50.3	36.0	3.521	SF
EDMUNDSON 06N - OWB - PLAN #1	997.2	1,010.1	49.4	34.9	3.414	CC
EDMUNDSON 06N - OWB - PLAN #1	1,000.0	1,012.9	49.4	34.9	3.408	ES
EDMUNDSON 06N - OWB - PLAN #1	1,100.0	1,112.9	51.2	35.8	3.315	SF
EDMUNDSON 07NA - OWB - PLAN #1	429.5	432.6	51.5	45.9	9.166	CC
EDMUNDSON 07NA - OWB - PLAN #1	1,100.0	1,114.4	51.9	37.2	3.516	ES
EDMUNDSON 07NA - OWB - PLAN #1	1,200.0	1,214.4	53.6	38.0	3.431	SF
EDMUNDSON 08C - OWB - PLAN #1	250.0	250.0	55.9	53.1	20.254	CC
EDMUNDSON 08C - OWB - PLAN #1	1,200.0	1,214.8	57.2	42.5	3.893	ES
EDMUNDSON 08C - OWB - PLAN #1	19,468.9	18,888.3	1,911.8	1,325.9	3.263	SF
EDMUNDSON 09N - OWB - PLAN #1	250.0	250.0	62.5	59.7	22.644	CC
EDMUNDSON 09N - OWB - PLAN #1	1,300.0	1,316.5	63.2	48.3	4.256	ES
EDMUNDSON 09N - OWB - PLAN #1	19,468.9	18,726.3	1,690.5	1,104.9	2.887	SF
EDMUNDSON 10N - OWB - PLAN #1	1,325.9	1,343.4	70.3	55.9	4.899	CC
EDMUNDSON 10N - OWB - PLAN #1	1,400.0	1,417.4	70.9	55.8	4.690	ES
EDMUNDSON 10N - OWB - PLAN #1	19,468.9	18,889.0	1,479.9	893.2	2.522	SF
EDMUNDSON 11NA - OWB - PLAN #1	1,455.9	1,475.1	78.0	62.9	5.167	CC
EDMUNDSON 11NA - OWB - PLAN #1	1,500.0	1,519.2	78.2	62.6	5.010	ES
EDMUNDSON 11NA - OWB - PLAN #1	19,468.9	18,775.0	1,276.7	697.5	2.204	SF
EDMUNDSON 12C - OWB - PLAN #1	1,491.0	1,510.4	86.4	71.4	5.752	CC
EDMUNDSON 12C - OWB - PLAN #1	1,600.0	1,619.4	87.4	70.9	5.295	ES
EDMUNDSON 12C - OWB - PLAN #1	19,468.9	19,197.7	1,077.2	494.7	1.849	Collision Risk Procedures Re
EDMUNDSON 13N - OWB - PLAN #1	1,792.9	1,794.9	49.4	31.9	2.829	CC
EDMUNDSON 13N - OWB - PLAN #1	1,890.3	1,892.0	50.6	30.9	2.574	ES
EDMUNDSON 13N - OWB - PLAN #1	19,468.9	19,046.3	845.3	260.2	1.445	Collision Avoidance Req., SF
EDMUNDSON 14N - OWB - PLAN #1	1,821.8	1,823.4	39.6	21.7	2.216	CC
EDMUNDSON 14N - OWB - PLAN #1	1,900.0	1,901.3	40.3	20.7	2.053	ES
EDMUNDSON 14N - OWB - PLAN #1	19,468.9	19,230.4	635.9	49.6	1.085	Collision Avoidance Req., SF
EDMUNDSON 15NA - OWB - PLAN #1	1,925.7	1,926.9	29.5	9.8	1.500	Collision Avoidance Req., CC
EDMUNDSON 15NA - OWB - PLAN #1	19,468.9	19,151.2	446.8	-101.9	0.814	No-Go Zone - Stop Drilling, E
EDMUNDSON 16C - OWB - PLAN #1	1,868.7	1,869.4	20.6	2.1	1.111	Collision Avoidance Req., CC
EDMUNDSON 16C - OWB - PLAN #1	19,468.9	19,565.6	301.5	-158.6	0.655	No-Go Zone - Stop Drilling, E
EDMUNDSON 18N - OWB - PLAN #1	1,980.1	1,979.7	9.8	-10.7	0.478	No-Go Zone - Stop Drilling, C
EDMUNDSON 18N - OWB - PLAN #1	19,468.9	19,661.6	219.7	-339.5	0.393	No-Go Zone - Stop Drilling, E
EDMUNDSON 19NA - OWB - PLAN #1	2,001.8	2,001.2	19.6	-1.4	0.933	No-Go Zone - Stop Drilling, C
EDMUNDSON 19NA - OWB - PLAN #1	19,468.9	19,614.2	445.2	-125.8	0.780	No-Go Zone - Stop Drilling, E
EDMUNDSON 20C - OWB - PLAN #1	2,038.7	2,037.9	29.3	7.6	1.352	Collision Avoidance Req., CC
EDMUNDSON 20C - OWB - PLAN #1	2,200.0	2,198.9	30.7	5.6	1.221	Collision Avoidance Req., ES
EDMUNDSON 20C - OWB - PLAN #1	2,300.0	2,298.7	32.8	5.7	1.209	Collision Avoidance Req., SF
EDMUNDSON 21N - OWB - PLAN #1	2,071.0	2,069.9	39.1	16.8	1.756	Collision Risk Procedures Re
EDMUNDSON 21N - OWB - PLAN #1	2,200.0	2,198.0	41.1	16.0	1.636	Collision Risk Procedures Re
EDMUNDSON 21N - OWB - PLAN #1	19,468.9	19,963.5	845.3	258.4	1.440	Collision Avoidance Req., SF

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

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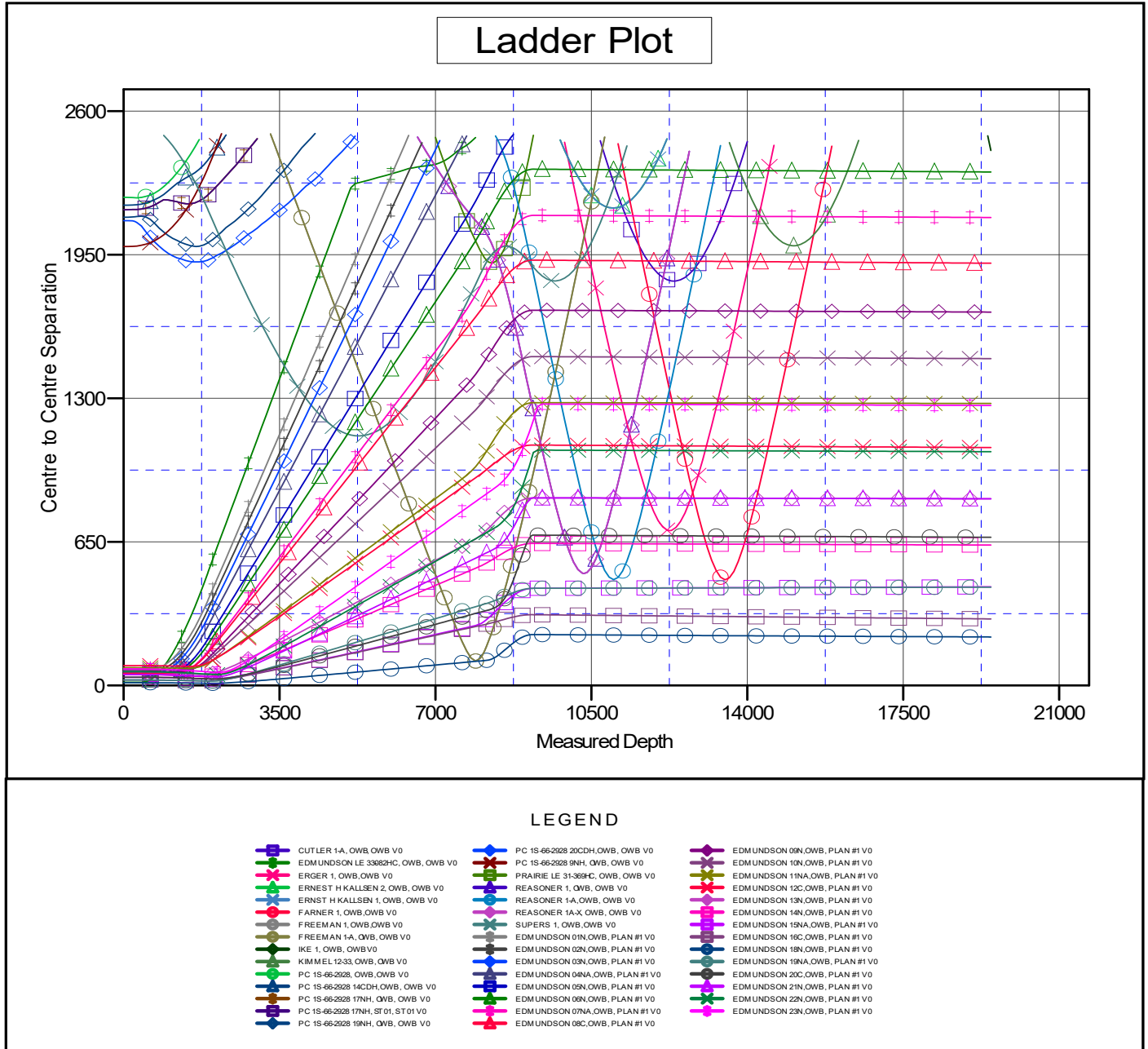
Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Edmundson Pad						
EDMUNDSON 22N - OWB - PLAN #1	2,099.0	2,097.7	49.3	26.5	2.163	CC
EDMUNDSON 22N - OWB - PLAN #1	2,200.0	2,197.8	50.5	25.5	2.021	ES
EDMUNDSON 22N - OWB - PLAN #1	19,468.9	20,163.5	1,058.6	474.2	1.811	Collision Risk Procedures R
EDMUNDSON 23N - OWB - PLAN #1	2,126.1	2,124.5	59.3	36.0	2.544	CC
EDMUNDSON 23N - OWB - PLAN #1	2,200.0	2,197.7	59.9	35.0	2.409	ES
EDMUNDSON 23N - OWB - PLAN #1	19,468.9	20,233.0	1,267.9	680.6	2.159	SF

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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 17N  
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

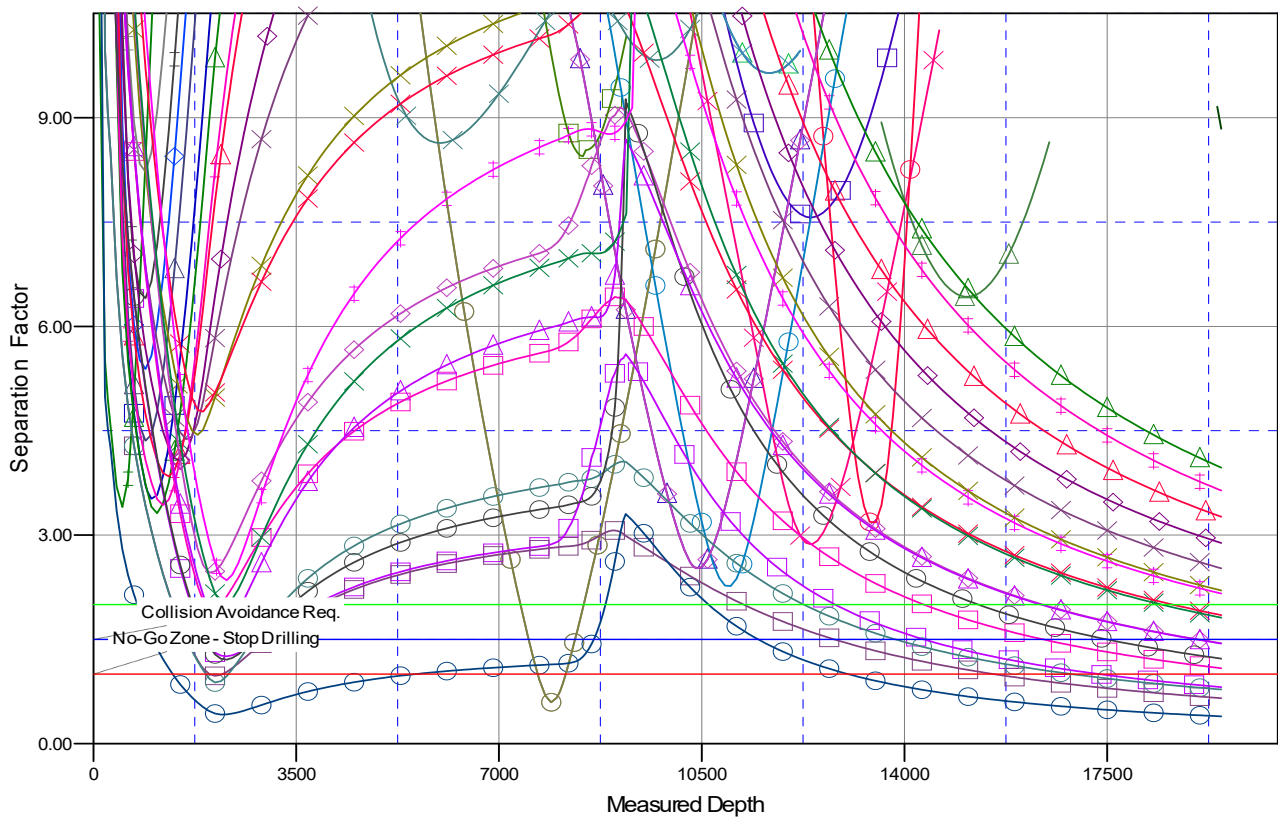
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<b>Company:</b>	PDC - PLANNING DB	<b>Local Co-ordinate Reference:</b>	Well EDMUNDSON 17N
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25 @ 5077.0usft
<b>Reference Site:</b>	Edmundson Pad	<b>MD Reference:</b>	KB 25 @ 5077.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	EDMUNDSON 17N	<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 17N  
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 20CDH, OWB, OWB V0	EDMUNDSON 09N, OWB, PLAN #1 V0
EDMUNDSON LE 3362HC, OWB, OWB V0	PC 1S-66-2928 9NH, OWB, OWB V0	EDMUNDSON 10N, OWB, PLAN #1 V0
ERGER 1, OWB, OWB V0	PRAIRIE LE 31-369C, OWB, OWB V0	EDMUNDSON 11NA, OWB, PLAN #1 V0
ERNEST H KALLSEN 2, OWB, OWB V0	REASONER 1, OWB, OWB V0	EDMUNDSON 12C, OWB, PLAN #1 V0
ERNST H KALLSEN 1, OWB, OWB V0	REASONER 1A, OWB, OWB V0	EDMUNDSON 13N, OWB, PLAN #1 V0
FARNER 1, OWB, OWB V0	REASONER 1A-X, OWB, OWB V0	EDMUNDSON 14N, OWB, PLAN #1 V0
FREEMAN 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
IKE 1, OWB, OWB V0	EDMUNDSON 02N, OWB, PLAN #1 V0	EDMUNDSON 18N, OWB, PLAN #1 V0
KIMMEL 12-33, OWB, OWB V0	EDMUNDSON 03N, OWB, PLAN #1 V0	EDMUNDSON 19NA, OWB, PLAN #1 V0
PC 1S-66-2928, OWB, OWB V0	EDMUNDSON 04NA, OWB, PLAN #1 V0	EDMUNDSON 20C, OWB, PLAN #1 V0
PC 1S-66-2928 14CDH, OWB, OWB V0	EDMUNDSON 05N, OWB, PLAN #1 V0	EDMUNDSON 21N, OWB, PLAN #1 V0
PC 1S-66-2928 17NH, OWB, OWB V0	EDMUNDSON 06N, OWB, PLAN #1 V0	EDMUNDSON 22N, OWB, PLAN #1 V0
PC 1S-66-2928 17NH, ST01, ST01 V0	EDMUNDSON 07NA, OWB, PLAN #1 V0	EDMUNDSON 23N, OWB, PLAN #1 V0
PC 1S-66-2928 19NH, OWB, OWB V0	EDMUNDSON 08C, OWB, PLAN #1 V0	

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