



Project: WELD COUNTY  
Site: Edmundson Pad  
Well: EDMUNDSON 07NA  
Wellbore: OWB  
Design: PLAN #1  
Lat: 39.930014  
Long: -104.810239  
GL: 5052.0  
KB: KB 25 @ 5077.0usft

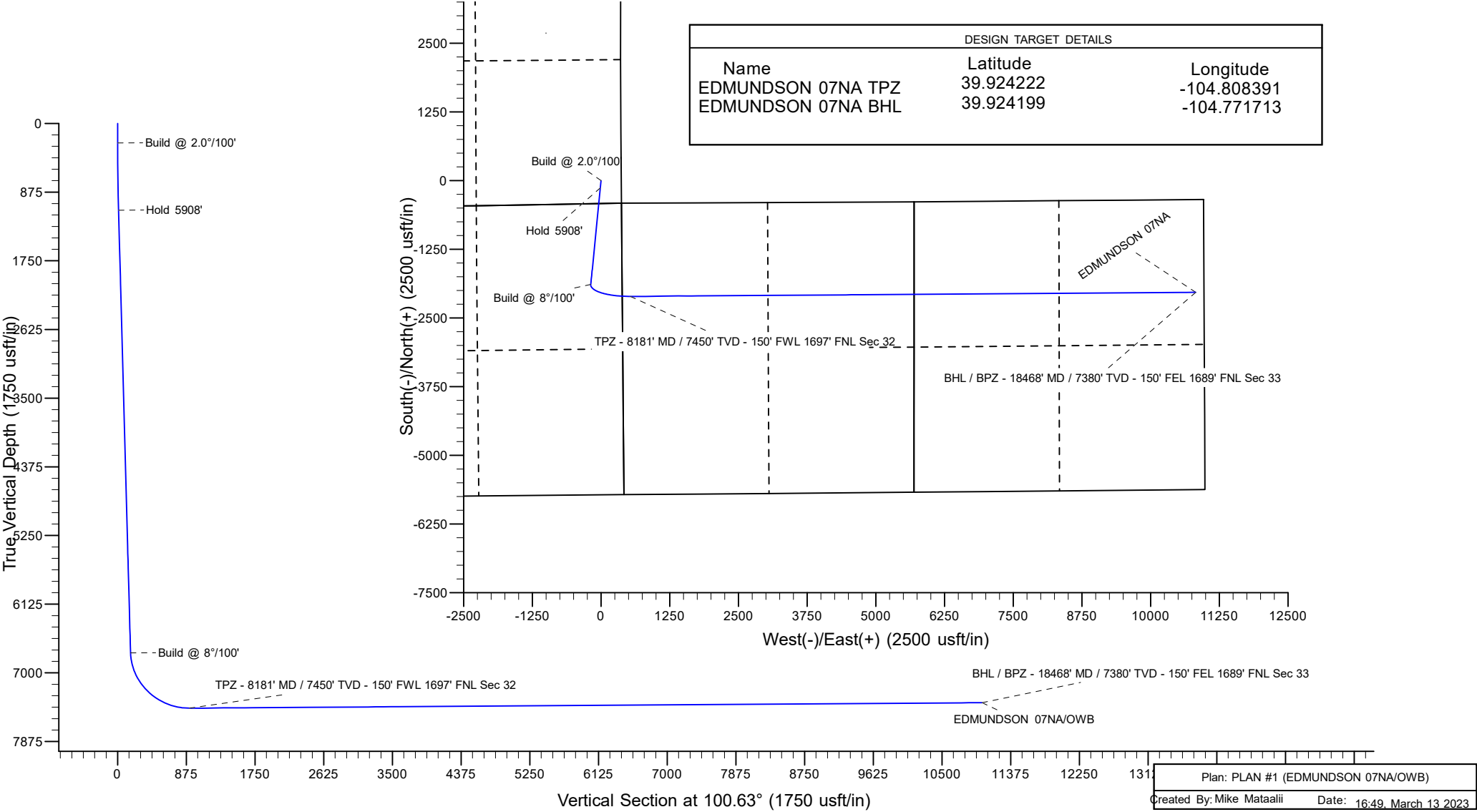


Azimuths to Grid North  
True North: -0.45°  
Magnetic North: 9.48°  
  
Magnetic Field  
Strength: 53709.0nT  
Dip Angle: 66.97°  
Date: 12/31/2004  
Model: IGRF2000

WELL DETAILS: EDMUNDSON 07NA						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
0.0	0.0	1218105.19	3193435.24	39.930014	-104.810239	

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'
1120.4	17.41	185.66	1107.1	-130.6	-12.9	2.00	185.66	11.4	Hold 5908'
7029.0	17.41	185.66	6745.1	-1889.7	-187.3	0.00	0.00	164.6	Build @ 8°/100'
8181.4	90.39	89.59	7450.0	-2105.8	534.8	8.00	-95.68	914.2	TPZ - 8181' MD / 7450' TVD - 150' FWL 1697' FNL Sec 32
18468.5	90.39	89.59	7380.0	-2031.9	10821.3	0.00	0.00	11010.5	BHL / BPZ - 18468' MD / 7380' TVD - 150' FEL 1689' FNL Sec 33

DESIGN TARGET DETAILS		
Name	Latitude	Longitude
EDMUNDSON 07NA TPZ	39.924222	-104.808391
EDMUNDSON 07NA BHL	39.924199	-104.771713



**PDC Energy Inc.**  
Anticollision Summary Report

<b>Company:</b>	PDC - PLANNING DB	<b>Local Co-ordinate Reference:</b>	Well EDMUNDSON 07NA
<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 07NA	<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>	3/13/2023		
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.0	18,468.5	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	11,346.2	7,441.5	290.0	53.4	1.226	Collision Avoidance Req., CC
CUTLER 1D - OWB - OWB	12,143.3	7,439.0	769.2	512.6	2.997	CC, ES, SF
EDMUNDSON LE 33-082HC - OWB - OWB	760.0	759.7	32.3	26.1	5.219	CC, ES
EDMUNDSON LE 33-082HC - OWB - OWB	18,312.2	18,443.0	588.8	97.1	1.197	Collision Avoidance Req., SF
ERGER 1 - OWB - OWB						Out of range
ERNEST H KALLSEN 2 - OWB - OWB						Out of range
ERNST H KALLSEN 1 - OWB - OWB						Out of range
EVERETTE DAHLINGER A1 - OWB - OWB						Out of range
FARNER 1 - OWB - OWB	12,500.0	7,438.6	1,640.5	1,492.7	11.095	CC
FARNER 1 - OWB - OWB	12,600.0	7,437.9	1,643.6	1,492.2	10.856	ES
FARNER 1 - OWB - OWB	12,900.0	7,435.9	1,688.6	1,529.6	10.625	SF
FREEMAN 1 - OWB - OWB	7,711.4	7,332.0	1,731.7	1,565.3	10.409	CC, ES
FREEMAN 1 - OWB - OWB	7,900.0	7,420.8	1,748.5	1,579.2	10.325	SF
FREEMAN 1-A - OWB - OWB	7,711.4	7,326.0	1,731.7	1,565.4	10.415	CC, ES
FREEMAN 1-A - OWB - OWB	7,900.0	7,414.8	1,748.5	1,579.3	10.332	SF
GREEN 1 - OWB - OWB						Out of range
IKE 1 - OWB - OWB						Out of range
KIMMEL 12-33 - OWB - OWB	14,034.4	7,437.2	127.2	-178.3	0.416	No-Go Zone - Stop Drilling, CC
OHD 1 - OWB - OWB						Out of range
PC 1S-66-2928 - OWB - OWB	286.2	321.9	2,185.3	2,182.0	669.572	CC
PC 1S-66-2928 - OWB - OWB	300.0	333.5	2,185.3	2,182.0	659.879	ES
PC 1S-66-2928 - OWB - OWB	2,200.0	2,544.6	2,492.7	2,475.0	141.327	SF
PC 1S-66-2928 14CDH - OWB - OWB	0.0	17.0	2,152.5			
PC 1S-66-2928 14CDH - OWB - OWB	200.0	199.0	2,153.5	2,150.9	833.305	ES
PC 1S-66-2928 14CDH - OWB - OWB	4,000.0	4,397.5	2,491.4	2,453.6	65.936	SF
PC 1S-66-2928 17NH - OWB - OWB	3,388.2	3,970.5	2,098.8	2,063.6	59.663	CC
PC 1S-66-2928 17NH - OWB - OWB	4,300.0	4,874.0	2,102.4	2,057.1	46.502	ES
PC 1S-66-2928 17NH - OWB - OWB	6,300.0	6,496.6	2,267.0	2,204.0	36.026	SF
PC 1S-66-2928 17NH - ST01 - ST01	3,388.2	3,970.5	2,098.8	2,063.6	59.663	CC
PC 1S-66-2928 17NH - ST01 - ST01	4,300.0	4,874.0	2,102.4	2,057.1	46.502	ES
PC 1S-66-2928 17NH - ST01 - ST01	6,300.0	6,496.6	2,267.0	2,204.0	36.026	SF
PC 1S-66-2928 19NH - OWB - OWB	4,939.6	5,497.1	1,766.5	1,710.6	31.633	CC
PC 1S-66-2928 19NH - OWB - OWB	18,100.0	17,580.0	2,077.4	1,533.7	3.821	ES, SF
PC 1S-66-2928 20CDH - OWB - OWB	5,948.4	6,476.0	1,520.9	1,452.6	22.295	CC
PC 1S-66-2928 20CDH - OWB - OWB	18,100.0	17,871.3	1,652.6	1,115.7	3.078	ES, SF
PC 1S-66-2928 9NH - OWB - OWB	0.0	15.0	1,965.2			
PC 1S-66-2928 9NH - OWB - OWB	200.0	202.0	1,966.2	1,963.6	758.129	ES

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

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<b>Reference Well:</b>	EDMUNDSON 07NA	<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 9NH - OWB - OWB	2,600.0	2,405.9	2,472.0	2,450.2	113.534	SF
POLLARD 1 - OWB - OWB	13,999.5	7,437.4	2,390.6	2,086.1	7.850	CC
POLLARD 1 - OWB - OWB	14,000.0	7,437.4	2,390.6	2,086.1	7.850	ES
POLLARD 1 - OWB - OWB	14,200.0	7,436.0	2,399.0	2,091.6	7.803	SF
PRAIRIE LE 31-369HC - OWB - OWB	7,337.8	15,816.3	1,957.1	1,802.4	12.651	CC
PRAIRIE LE 31-369HC - OWB - OWB	7,350.0	15,818.0	1,957.2	1,802.0	12.613	ES
PRAIRIE LE 31-369HC - OWB - OWB	7,550.0	15,844.0	1,998.6	1,836.2	12.311	SF
REASONER 1 - OWB - OWB						Out of range
REASONER 1-A - OWB - OWB	9,997.8	7,486.6	1,642.4	1,437.6	8.020	CC
REASONER 1-A - OWB - OWB	10,100.0	7,485.9	1,645.5	1,437.4	7.907	ES
REASONER 1-A - OWB - OWB	10,300.0	7,484.6	1,669.9	1,456.0	7.805	SF
REASONER 1A-X - OWB - OWB						Out of range
SUPERS 1 - OWB - OWB	8,675.8	7,456.6	291.8	114.3	1.644	Collision Risk Procedures R
SUPERS 1 - OWB - OWB	8,700.0	7,456.5	292.8	114.0	1.637	Collision Risk Procedures R

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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 07NA	<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	780.8	783.3	65.0	57.9	9.076	CC
EDMUNDSON 01N - OWB - PLAN #1	800.0	802.4	65.1	57.7	8.778	ES
EDMUNDSON 01N - OWB - PLAN #1	18,468.5	18,383.5	1,490.7	909.6	2.565	SF
EDMUNDSON 02N - OWB - PLAN #1	836.0	838.1	53.3	45.6	6.919	CC
EDMUNDSON 02N - OWB - PLAN #1	900.0	901.7	53.9	45.2	6.188	ES
EDMUNDSON 02N - OWB - PLAN #1	18,468.5	18,315.3	1,275.6	693.5	2.191	SF
EDMUNDSON 03N - OWB - PLAN #1	881.5	883.1	42.0	34.2	5.429	CC
EDMUNDSON 03N - OWB - PLAN #1	900.0	901.5	42.0	34.0	5.240	ES
EDMUNDSON 03N - OWB - PLAN #1	18,468.5	18,440.5	1,073.5	494.8	1.855	Collision Risk Procedures Re
EDMUNDSON 04NA - OWB - PLAN #1	946.1	947.3	30.5	22.4	3.740	CC
EDMUNDSON 04NA - OWB - PLAN #1	1,000.0	1,001.1	30.9	21.7	3.356	ES
EDMUNDSON 04NA - OWB - PLAN #1	18,468.5	18,258.2	845.2	261.4	1.448	Collision Avoidance Req., SF
EDMUNDSON 05N - OWB - PLAN #1	1,052.0	1,052.8	20.8	12.1	2.398	CC
EDMUNDSON 05N - OWB - PLAN #1	18,468.5	18,487.2	446.8	-115.9	0.794	No-Go Zone - Stop Drilling, E
EDMUNDSON 06N - OWB - PLAN #1	1,080.6	1,080.9	10.3	1.4	1.157	Collision Avoidance Req., CC
EDMUNDSON 06N - OWB - PLAN #1	18,468.5	18,623.5	287.5	-175.0	0.622	No-Go Zone - Stop Drilling, E
EDMUNDSON 08C - OWB - PLAN #1	1,338.2	1,337.9	10.0	-1.7	0.856	No-Go Zone - Stop Drilling, C
EDMUNDSON 08C - OWB - PLAN #1	1,900.0	1,899.6	12.5	-8.0	0.610	No-Go Zone - Stop Drilling, S
EDMUNDSON 08C - OWB - PLAN #1	2,300.0	2,299.6	16.3	-9.0	0.645	No-Go Zone - Stop Drilling, E
EDMUNDSON 09N - OWB - PLAN #1	1,240.6	1,239.9	20.5	10.2	1.990	Collision Risk Procedures Re
EDMUNDSON 09N - OWB - PLAN #1	18,468.5	18,730.4	446.8	-103.2	0.812	No-Go Zone - Stop Drilling, E
EDMUNDSON 10N - OWB - PLAN #1	1,278.3	1,277.3	31.0	20.3	2.902	CC
EDMUNDSON 10N - OWB - PLAN #1	1,400.0	1,398.5	32.7	19.4	2.457	ES
EDMUNDSON 10N - OWB - PLAN #1	18,468.5	18,892.3	664.7	110.1	1.198	Collision Avoidance Req., SF
EDMUNDSON 11NA - OWB - PLAN #1	1,312.8	1,311.6	41.6	30.5	3.754	CC
EDMUNDSON 11NA - OWB - PLAN #1	1,400.0	1,398.1	42.5	29.7	3.311	ES
EDMUNDSON 11NA - OWB - PLAN #1	18,468.5	18,779.6	845.3	259.8	1.444	Collision Avoidance Req., SF
EDMUNDSON 12C - OWB - PLAN #1	1,343.6	1,342.1	52.2	40.8	4.577	CC
EDMUNDSON 12C - OWB - PLAN #1	1,400.0	1,398.0	52.6	40.2	4.229	ES
EDMUNDSON 12C - OWB - PLAN #1	18,468.5	19,199.0	1,117.8	567.9	2.033	SF
EDMUNDSON 13N - OWB - PLAN #1	250.0	250.0	90.1	87.4	32.658	CC
EDMUNDSON 13N - OWB - PLAN #1	1,200.0	1,186.0	91.7	80.4	8.131	ES
EDMUNDSON 13N - OWB - PLAN #1	18,468.5	19,048.8	1,276.7	698.4	2.208	SF
EDMUNDSON 14N - OWB - PLAN #1	250.0	250.0	80.0	77.3	28.999	CC
EDMUNDSON 14N - OWB - PLAN #1	1,120.4	1,107.1	81.6	70.5	7.334	ES
EDMUNDSON 14N - OWB - PLAN #1	18,468.5	19,231.9	1,493.3	916.6	2.589	SF
EDMUNDSON 15NA - OWB - PLAN #1	250.0	250.0	70.7	68.0	25.619	CC
EDMUNDSON 15NA - OWB - PLAN #1	1,120.4	1,106.7	72.7	60.9	6.151	ES
EDMUNDSON 15NA - OWB - PLAN #1	18,468.5	19,153.7	1,690.5	1,105.7	2.890	SF
EDMUNDSON 16C - OWB - PLAN #1	250.0	250.0	62.5	59.7	22.644	CC
EDMUNDSON 16C - OWB - PLAN #1	1,120.4	1,106.3	64.6	51.9	5.089	ES
EDMUNDSON 16C - OWB - PLAN #1	18,468.5	19,565.6	1,937.5	1,366.4	3.393	SF
EDMUNDSON 17N - OWB - PLAN #1	432.5	429.4	51.5	45.9	9.169	CC
EDMUNDSON 17N - OWB - PLAN #1	1,120.4	1,105.8	52.0	37.1	3.508	ES
EDMUNDSON 17N - OWB - PLAN #1	1,200.0	1,184.1	53.1	37.7	3.447	SF
EDMUNDSON 18N - OWB - PLAN #1	1,124.3	1,109.5	48.8	33.2	3.117	CC, ES
EDMUNDSON 18N - OWB - PLAN #1	1,200.0	1,183.9	49.8	33.6	3.064	SF
EDMUNDSON 19NA - OWB - PLAN #1	1,136.5	1,121.3	48.4	32.4	3.017	CC, ES
EDMUNDSON 19NA - OWB - PLAN #1	1,200.0	1,183.7	49.1	32.5	2.960	SF
EDMUNDSON 20C - OWB - PLAN #1	1,150.6	1,135.0	50.8	34.9	3.206	CC
EDMUNDSON 20C - OWB - PLAN #1	1,200.0	1,183.6	51.2	34.9	3.138	ES, SF
EDMUNDSON 21N - OWB - PLAN #1	1,166.3	1,150.4	55.5	40.3	3.649	CC
EDMUNDSON 21N - OWB - PLAN #1	1,200.0	1,183.5	55.7	40.1	3.577	ES

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

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Anticollision Summary Report

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<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	EDMUNDSON 07NA	<b>Survey Calculation Method:</b>	Minimum Curvature
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<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

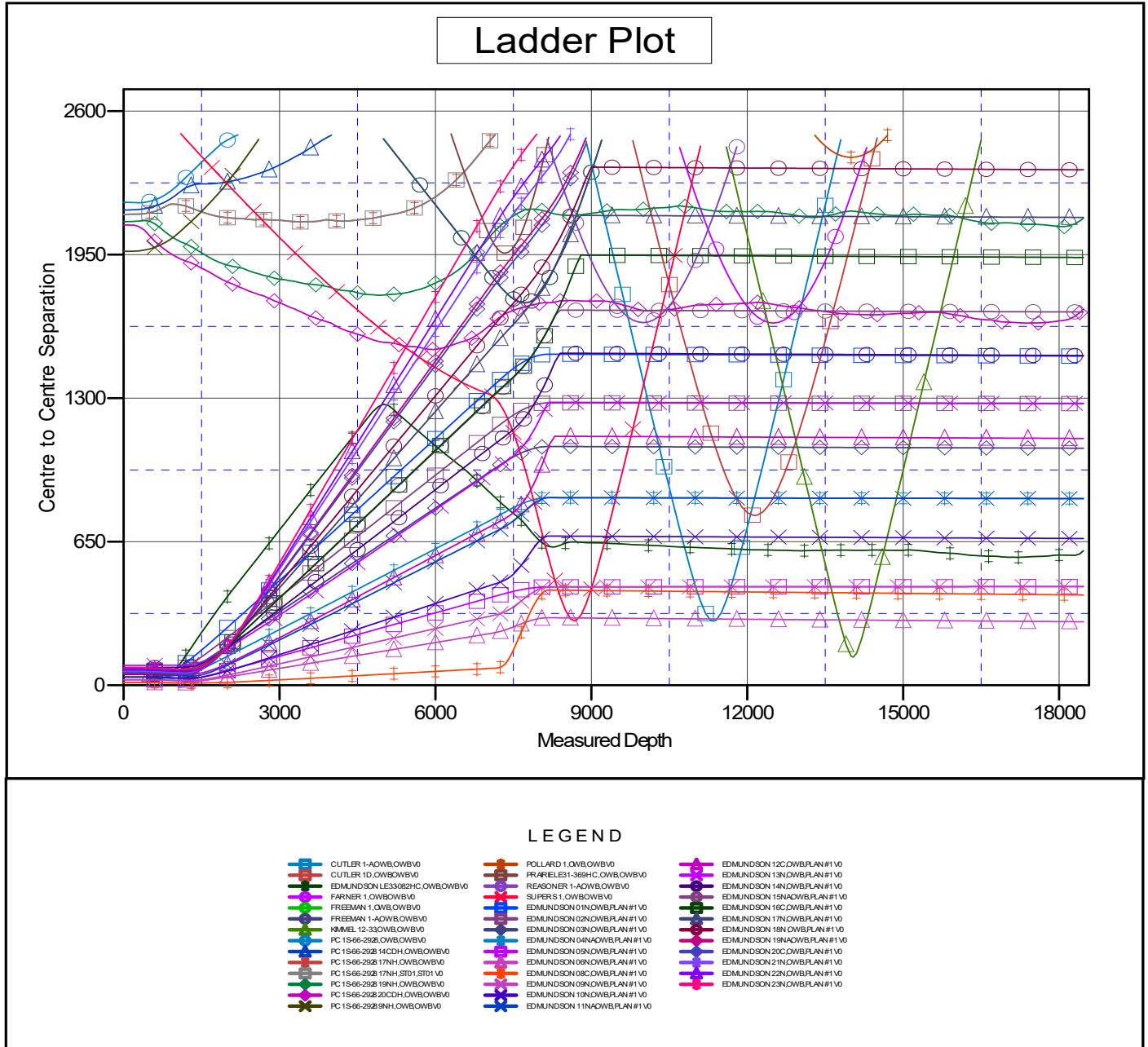
Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Edmundson Pad						
EDMUNDSON 21N - OWB - PLAN #1	1,300.0	1,281.7	58.4	41.7	3.495	SF
EDMUNDSON 22N - OWB - PLAN #1	1,183.1	1,166.9	62.2	47.7	4.296	CC
EDMUNDSON 22N - OWB - PLAN #1	1,200.0	1,183.5	62.2	47.6	4.244	ES
EDMUNDSON 22N - OWB - PLAN #1	1,400.0	1,379.3	69.5	52.3	4.034	SF
EDMUNDSON 23N - OWB - PLAN #1	1,201.2	1,184.6	70.2	56.4	5.081	CC, ES
EDMUNDSON 23N - OWB - PLAN #1	1,400.0	1,379.3	75.9	59.4	4.596	SF

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<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 07NA  
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

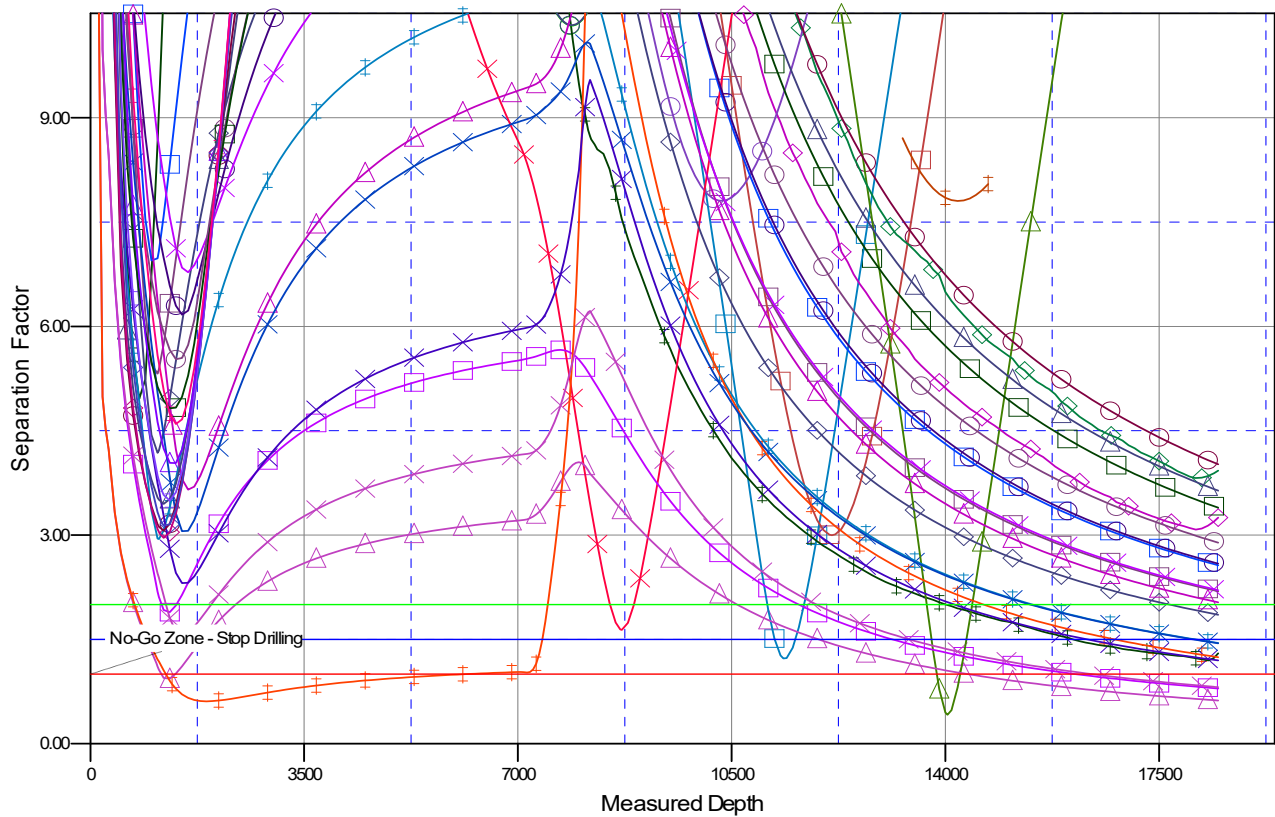
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<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

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 07NA  
Coordinate System is US State Plane 1983, Colorado Northern Zone  
Grid Convergence at Surface is: 0.45°

## Separation Factor Plot



### LEGEND

CUTLER 1-AOWBOWBVO	POLLARD 1,OWBOWBVO	EDMUNDSON 12COWBPLAN#1 V0
CUTLER 1D,OWBOWBVO	PRARELE31-369HC,OWBOWBVO	EDMUNDSON 13COWBPLAN#1 V0
EDMUNDSON LE33082HC,OWBOWBVO	REASONER 1-AOWBOWBVO	EDMUNDSON 14COWBPLAN#1 V0
FARNER 1,OWBOWBVO	SUPERS 1,OWBOWBVO	EDMUNDSON 15COWBPLAN#1 V0
FREEMAN 1,OWBOWBVO	EDMUNDSON 01N,OWBOWBVO	EDMUNDSON 16COWBPLAN#1 V0
FREEMAN 1-AOWBOWBVO	EDMUNDSON 02N,OWBOWBVO	EDMUNDSON 17COWBPLAN#1 V0
KIMMEL 12-33COWBOWBVO	EDMUNDSON 03N,OWBOWBVO	EDMUNDSON 18COWBPLAN#1 V0
PC 1S66-2928,OWBOWBVO	EDMUNDSON 04N,OWBOWBVO	EDMUNDSON 19COWBPLAN#1 V0
PC 1S66-2928 14CDH,OWBOWBVO	EDMUNDSON 05N,OWBOWBVO	EDMUNDSON 20COWBPLAN#1 V0
PC 1S66-2928 17NH,OWBOWBVO	EDMUNDSON 06N,OWBOWBVO	EDMUNDSON 21N,OWBOWBVO
PC 1S66-2928 17NH,ST01,ST01 V0	EDMUNDSON 08COWBOWBVO	EDMUNDSON 22N,OWBOWBVO
PC 1S66-2928 19NH,OWBOWBVO	EDMUNDSON 09N,OWBOWBVO	EDMUNDSON 23N,OWBOWBVO
PC 1S66-2928 20CDH,OWBOWBVO	EDMUNDSON 10N,OWBOWBVO	
PC 1S66-2928 9NH,OWBOWBVO	EDMUNDSON 11N,OWBOWBVO	

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