



Project: WELD COUNTY
Site: Edmundson Pad
Well: EDMUNDSON 19NA
Wellbore: OWB
Design: PLAN #1
Lat: 39.929877
Long: -104.810285
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

WELL DETAILS: EDMUNDSON 19NA

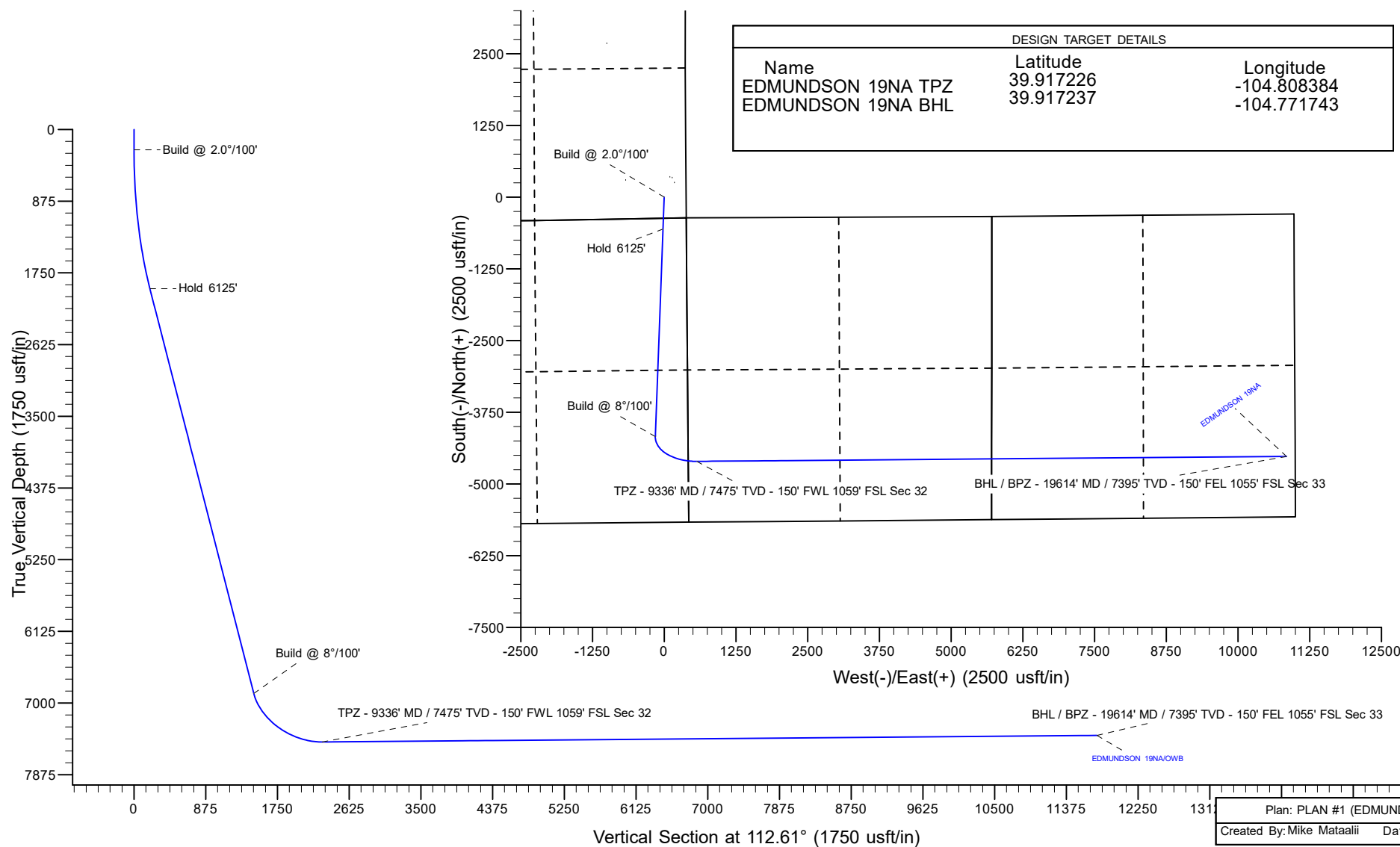
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	1218055.19	3193422.74	39.929877	-104.810285

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'
2062.3	36.25	182.13	1943.8	-554.0	-20.6	2.00	182.13	194.0	Hold 6125'
8187.5	36.25	182.13	6883.7	-4173.1	-154.9	0.00	0.00	1461.5	Build @ 8°/100'
9336.2	90.45	89.52	7475.0	-4604.3	569.2	8.00	-91.84	2295.7	TPZ - 9336' MD / 7475' TVD - 150' FWL 1059' FSL Sec 32
19614.2	90.45	89.52	7395.0	-4517.7	10846.4	0.00	0.00	11749.7	BHL / BPZ - 19614' MD / 7395' TVD - 150' FEL 1055' FSL Sec 33

DESIGN TARGET DETAILS

Name	Latitude	Longitude
EDMUNDSON 19NA TPZ	39.917226	-104.808384
EDMUNDSON 19NA BHL	39.917237	-104.771743



PDC Energy Inc.
Anticollision Summary Report

Company:	PDC - PLANNING DB	Local Co-ordinate Reference:	Well EDMUNDSON 19NA
Project:	WELD COUNTY	TVD Reference:	KB 25 @ 5077.0usft
Reference Site:	Edmundson Pad	MD Reference:	KB 25 @ 5077.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	EDMUNDSON 19NA	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 #1	Offset TVD Reference:	Offset Datum

Reference	PLAN #1		
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 2,500.0 usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date	3/14/2023		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	19,614.2	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	12,500.3	7,463.4	2,254.6	2,014.5	9.387	CC, ES
CUTLER 1-A - OWB - OWB	12,600.0	7,462.6	2,256.8	2,016.3	9.381	SF
CUTLER 1D - OWB - OWB						Out of range
EDMUNDSON LE 33-082HC - OWB - OWB	0.0	2.0	38.5			
EDMUNDSON LE 33-082HC - OWB - OWB	400.0	401.6	39.8	35.8	9.877	ES
EDMUNDSON LE 33-082HC - OWB - OWB	700.0	699.1	55.1	47.9	7.698	SF
ERGER 1 - OWB - OWB	12,403.7	7,479.1	277.0	38.9	1.163	Collision Avoidance Req., CC
ERNEST H KALLSEN 2 - OWB - OWB	11,140.6	7,499.0	1,737.1	1,527.7	8.297	CC
ERNEST H KALLSEN 2 - OWB - OWB	11,200.0	7,498.5	1,738.1	1,526.1	8.199	ES
ERNEST H KALLSEN 2 - OWB - OWB	11,700.0	7,494.6	1,824.9	1,592.4	7.848	SF
ERNST H KALLSEN 1 - OWB - OWB	11,140.6	7,497.0	1,737.1	1,527.7	8.298	CC
ERNST H KALLSEN 1 - OWB - OWB	11,200.0	7,496.5	1,738.1	1,526.1	8.201	ES
ERNST H KALLSEN 1 - OWB - OWB	11,700.0	7,492.6	1,824.9	1,592.4	7.849	SF
EVERETTE DAHLINGER A1 - OWB - OWB						Out of range
FARNER 1 - OWB - OWB	13,600.0	7,459.8	904.2	752.6	5.964	SF
FARNER 1 - OWB - OWB	13,652.4	7,459.4	902.6	752.2	6.001	CC, ES
FREEMAN 1 - OWB - OWB	7,404.5	6,273.2	126.2	-49.3	0.719	No-Go Zone - Stop Drilling, (
FREEMAN 1-A - OWB - OWB	7,404.5	6,267.2	126.2	-49.2	0.720	No-Go Zone - Stop Drilling, (
GREEN 1 - OWB - OWB						Out of range
IKE 1 - OWB - OWB						Out of range
KIMMEL 12-33 - OWB - OWB	15,188.7	7,456.4	2,414.1	2,106.3	7.843	CC
KIMMEL 12-33 - OWB - OWB	15,200.0	7,456.4	2,414.1	2,106.2	7.841	ES
KIMMEL 12-33 - OWB - OWB	15,300.0	7,455.6	2,416.6	2,108.3	7.838	SF
OHD 1 - OWB - OWB	8,933.8	7,435.1	2,273.5	2,090.8	12.443	CC
OHD 1 - OWB - OWB	8,950.0	7,441.9	2,273.7	2,090.5	12.411	ES
OHD 1 - OWB - OWB	9,200.0	7,511.6	2,319.1	2,128.2	12.147	SF
PC 1S-66-2928 - OWB - OWB	287.7	323.5	2,227.0	2,223.7	681.168	CC
PC 1S-66-2928 - OWB - OWB	300.0	333.8	2,227.0	2,223.7	672.470	ES
PC 1S-66-2928 - OWB - OWB	1,700.0	1,692.2	2,486.4	2,473.3	189.744	SF
PC 1S-66-2928 14CDH - OWB - OWB	0.0	17.0	2,193.6			
PC 1S-66-2928 14CDH - OWB - OWB	200.0	198.8	2,194.6	2,192.1	849.444	ES
PC 1S-66-2928 14CDH - OWB - OWB	2,200.0	2,577.2	2,483.8	2,461.8	113.186	SF
PC 1S-66-2928 17NH - OWB - OWB	0.0	17.0	2,173.0			
PC 1S-66-2928 17NH - OWB - OWB	280.0	311.9	2,174.6	2,171.7	742.977	ES
PC 1S-66-2928 17NH - OWB - OWB	2,800.0	3,294.0	2,475.0	2,443.7	79.062	SF
PC 1S-66-2928 17NH - ST01 - ST01	0.0	17.0	2,173.0			
PC 1S-66-2928 17NH - ST01 - ST01	280.0	311.9	2,174.6	2,171.7	742.977	ES

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

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Reference Well:	EDMUNDSON 19NA	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 #1	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						
Edmundson Offsets						
PC 1S-66-2928 17NH - ST01 - ST01	2,800.0	3,294.0	2,475.0	2,443.7	79.062	SF
PC 1S-66-2928 19NH - OWB - OWB	1,638.8	2,382.3	2,002.3	1,982.1	99.202	CC, ES
PC 1S-66-2928 19NH - OWB - OWB	3,800.0	4,170.0	2,483.9	2,438.5	54.713	SF
PC 1S-66-2928 20CDH - OWB - OWB	1,712.6	2,453.3	1,932.8	1,910.1	85.123	CC, ES
PC 1S-66-2928 20CDH - OWB - OWB	4,500.0	4,963.0	2,473.7	2,417.4	43.871	SF
PC 1S-66-2928 9NH - OWB - OWB	0.0	15.0	2,006.5			
PC 1S-66-2928 9NH - OWB - OWB	200.0	201.6	2,007.4	2,004.9	774.113	ES
PC 1S-66-2928 9NH - OWB - OWB	2,100.0	1,841.0	2,461.2	2,443.4	138.608	SF
POLLARD 1 - OWB - OWB						Out of range
PRAIRIE LE 31-369HC - OWB - OWB	8,446.0	18,275.5	1,936.5	1,704.7	8.356	CC
PRAIRIE LE 31-369HC - OWB - OWB	8,500.0	18,300.2	1,939.0	1,704.3	8.261	ES
PRAIRIE LE 31-369HC - OWB - OWB	8,650.0	18,362.6	1,972.5	1,730.2	8.140	SF
REASONER 1 - OWB - OWB	10,482.0	7,508.1	82.9	-113.2	0.423	No-Go Zone - Stop Drilling, (
REASONER 1 - OWB - OWB	10,500.0	7,507.9	84.8	-119.1	0.416	No-Go Zone - Stop Drilling, (
REASONER 1-A - OWB - OWB	11,100.0	7,510.3	905.3	694.5	4.294	SF
REASONER 1-A - OWB - OWB	11,150.2	7,509.9	903.9	694.1	4.309	CC, ES
REASONER 1A-X - OWB - OWB	10,482.0	7,516.1	82.9	-113.4	0.422	No-Go Zone - Stop Drilling, (
REASONER 1A-X - OWB - OWB	10,500.0	7,515.9	84.8	-119.3	0.416	No-Go Zone - Stop Drilling, (
SUPERS 1 - OWB - OWB	5,021.0	4,340.0	1,130.0	1,012.9	9.651	CC
SUPERS 1 - OWB - OWB	5,100.0	4,403.7	1,131.0	1,012.0	9.505	ES
SUPERS 1 - OWB - OWB	5,600.0	4,806.9	1,180.7	1,050.7	9.083	SF

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Reference Well:	EDMUNDSON 19NA	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 #1	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						
Edmundson Pad						
EDMUNDSON 01N - OWB - PLAN #1	644.7	652.4	94.9	87.5	12.807	CC
EDMUNDSON 01N - OWB - PLAN #1	700.0	707.5	95.3	87.3	11.893	ES
EDMUNDSON 01N - OWB - PLAN #1	1,000.0	1,004.9	115.4	103.7	9.844	SF
EDMUNDSON 02N - OWB - PLAN #1	703.9	712.5	84.0	75.3	9.631	CC, ES
EDMUNDSON 02N - OWB - PLAN #1	1,000.0	1,007.0	98.0	85.6	7.910	SF
EDMUNDSON 03N - OWB - PLAN #1	756.1	765.5	74.0	64.7	7.924	CC
EDMUNDSON 03N - OWB - PLAN #1	800.0	809.3	74.3	64.5	7.552	ES
EDMUNDSON 03N - OWB - PLAN #1	1,000.0	1,008.5	83.5	71.2	6.746	SF
EDMUNDSON 04NA - OWB - PLAN #1	832.0	842.6	64.8	54.0	5.995	CC
EDMUNDSON 04NA - OWB - PLAN #1	900.0	910.6	65.5	53.9	5.649	ES
EDMUNDSON 04NA - OWB - PLAN #1	1,000.0	1,010.3	69.4	56.5	5.397	SF
EDMUNDSON 05N - OWB - PLAN #1	966.9	979.8	56.9	43.8	4.346	CC
EDMUNDSON 05N - OWB - PLAN #1	1,000.0	1,012.8	57.1	43.6	4.241	ES
EDMUNDSON 05N - OWB - PLAN #1	1,100.0	1,112.7	59.9	45.2	4.089	SF
EDMUNDSON 06N - OWB - PLAN #1	1,024.6	1,038.3	51.5	36.8	3.505	CC, ES
EDMUNDSON 06N - OWB - PLAN #1	1,100.0	1,113.7	52.5	37.0	3.373	SF
EDMUNDSON 07NA - OWB - PLAN #1	1,121.3	1,136.5	48.4	32.4	3.017	CC, ES
EDMUNDSON 07NA - OWB - PLAN #1	1,200.0	1,215.2	49.5	32.7	2.947	SF
EDMUNDSON 08C - OWB - PLAN #1	1,147.8	1,163.2	48.4	32.3	3.004	CC, ES
EDMUNDSON 08C - OWB - PLAN #1	1,200.0	1,215.4	48.9	32.3	2.949	SF
EDMUNDSON 09N - OWB - PLAN #1	1,257.3	1,274.3	50.7	34.1	3.048	CC
EDMUNDSON 09N - OWB - PLAN #1	1,300.0	1,317.1	51.0	34.0	2.999	ES
EDMUNDSON 09N - OWB - PLAN #1	1,400.0	1,417.0	54.0	36.0	2.998	SF
EDMUNDSON 10N - OWB - PLAN #1	1,324.2	1,342.2	55.4	39.0	3.386	CC, ES
EDMUNDSON 10N - OWB - PLAN #1	19,614.2	18,889.1	1,910.8	1,324.0	3.257	SF
EDMUNDSON 11NA - OWB - PLAN #1	1,444.4	1,464.1	61.4	44.8	3.692	CC
EDMUNDSON 11NA - OWB - PLAN #1	1,500.0	1,519.7	61.8	44.6	3.589	ES
EDMUNDSON 11NA - OWB - PLAN #1	19,614.2	18,775.0	1,690.5	1,104.3	2.884	SF
EDMUNDSON 12C - OWB - PLAN #1	1,470.5	1,490.3	68.6	52.5	4.261	CC
EDMUNDSON 12C - OWB - PLAN #1	1,500.0	1,519.9	68.7	52.3	4.182	ES
EDMUNDSON 12C - OWB - PLAN #1	19,614.2	19,197.7	1,520.0	939.9	2.620	SF
EDMUNDSON 13N - OWB - PLAN #1	1,846.5	1,849.2	69.5	51.2	3.792	CC
EDMUNDSON 13N - OWB - PLAN #1	1,900.0	1,902.4	69.9	50.4	3.594	ES
EDMUNDSON 13N - OWB - PLAN #1	19,614.2	19,045.8	1,275.0	689.2	2.177	SF
EDMUNDSON 14N - OWB - PLAN #1	1,879.3	1,881.5	59.6	40.8	3.163	CC
EDMUNDSON 14N - OWB - PLAN #1	2,000.0	2,001.5	61.5	39.9	2.855	ES
EDMUNDSON 14N - OWB - PLAN #1	19,614.2	19,230.5	1,073.5	490.2	1.840	Collision Risk Procedures Re
EDMUNDSON 15NA - OWB - PLAN #1	1,971.2	1,973.0	49.0	28.5	2.396	CC
EDMUNDSON 15NA - OWB - PLAN #1	2,062.3	2,063.7	49.9	27.5	2.224	ES
EDMUNDSON 15NA - OWB - PLAN #1	19,614.2	19,151.0	845.3	259.7	1.443	Collision Avoidance Req., SF
EDMUNDSON 16C - OWB - PLAN #1	1,939.2	1,940.5	40.4	20.6	2.037	CC
EDMUNDSON 16C - OWB - PLAN #1	2,062.3	2,063.2	42.1	19.5	1.860	Collision Risk Procedures Re
EDMUNDSON 16C - OWB - PLAN #1	19,613.7	19,565.6	726.6	188.5	1.350	Collision Avoidance Req., SF
EDMUNDSON 17N - OWB - PLAN #1	2,001.2	2,001.8	19.6	-1.4	0.933	No-Go Zone - Stop Drilling, (
EDMUNDSON 17N - OWB - PLAN #1	19,614.2	19,468.2	445.2	-125.7	0.780	No-Go Zone - Stop Drilling, E
EDMUNDSON 18N - OWB - PLAN #1	2,010.7	2,011.0	9.8	-11.3	0.462	No-Go Zone - Stop Drilling, (
EDMUNDSON 18N - OWB - PLAN #1	2,100.0	2,100.2	10.4	-13.1	0.444	No-Go Zone - Stop Drilling, (
EDMUNDSON 18N - OWB - PLAN #1	19,612.9	19,661.2	291.0	-183.4	0.613	No-Go Zone - Stop Drilling, E
EDMUNDSON 20C - OWB - PLAN #1	2,879.9	2,879.6	8.2	-29.3	0.220	No-Go Zone - Stop Drilling, (
EDMUNDSON 20C - OWB - PLAN #1	3,400.0	3,399.7	8.8	-35.5	0.199	No-Go Zone - Stop Drilling, (
EDMUNDSON 20C - OWB - PLAN #1	8,450.0	8,444.0	49.8	-84.7	0.371	No-Go Zone - Stop Drilling, E
EDMUNDSON 21N - OWB - PLAN #1	2,177.8	2,177.3	19.1	-5.2	0.785	No-Go Zone - Stop Drilling, (
EDMUNDSON 21N - OWB - PLAN #1	2,400.0	2,399.3	20.9	-8.1	0.721	No-Go Zone - Stop Drilling, (

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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 #1	Offset TVD Reference:	Offset Datum

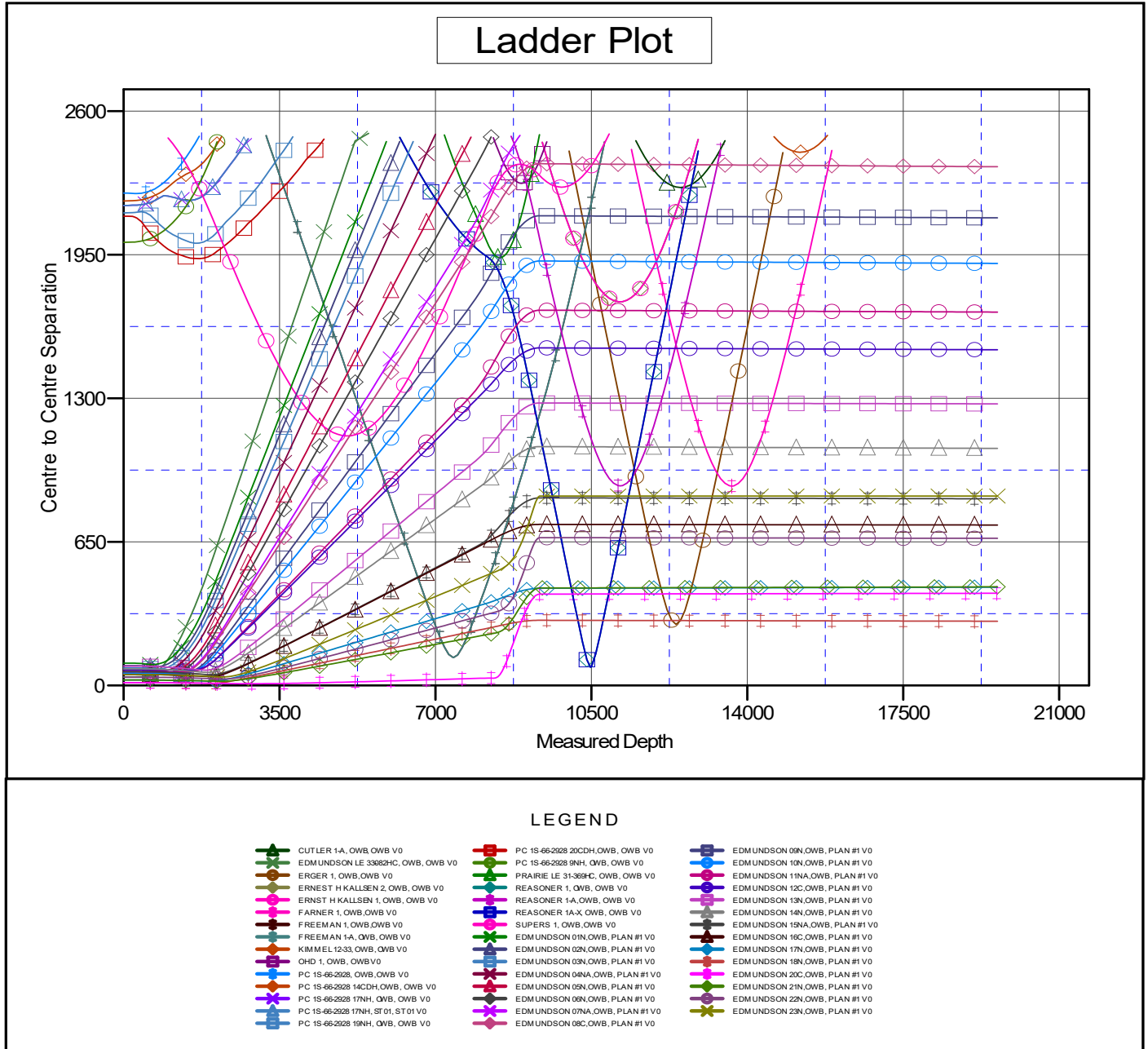
Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Edmundson Pad						
EDMUNDSON 21N - OWB - PLAN #1	19,614.2	19,963.5	446.8	-103.3	0.812	No-Go Zone - Stop Drilling, f
EDMUNDSON 22N - OWB - PLAN #1	2,209.8	2,209.0	29.1	4.1	1.163	Collision Avoidance Req., C
EDMUNDSON 22N - OWB - PLAN #1	2,400.0	2,399.0	30.9	1.9	1.065	Collision Avoidance Req., E
EDMUNDSON 23N - OWB - PLAN #1	2,241.6	2,240.7	38.9	13.2	1.513	Collision Risk Procedures R
EDMUNDSON 23N - OWB - PLAN #1	2,400.0	2,398.4	41.3	12.2	1.421	Collision Avoidance Req., E

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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 #1	Offset TVD Reference:	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 19NA
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

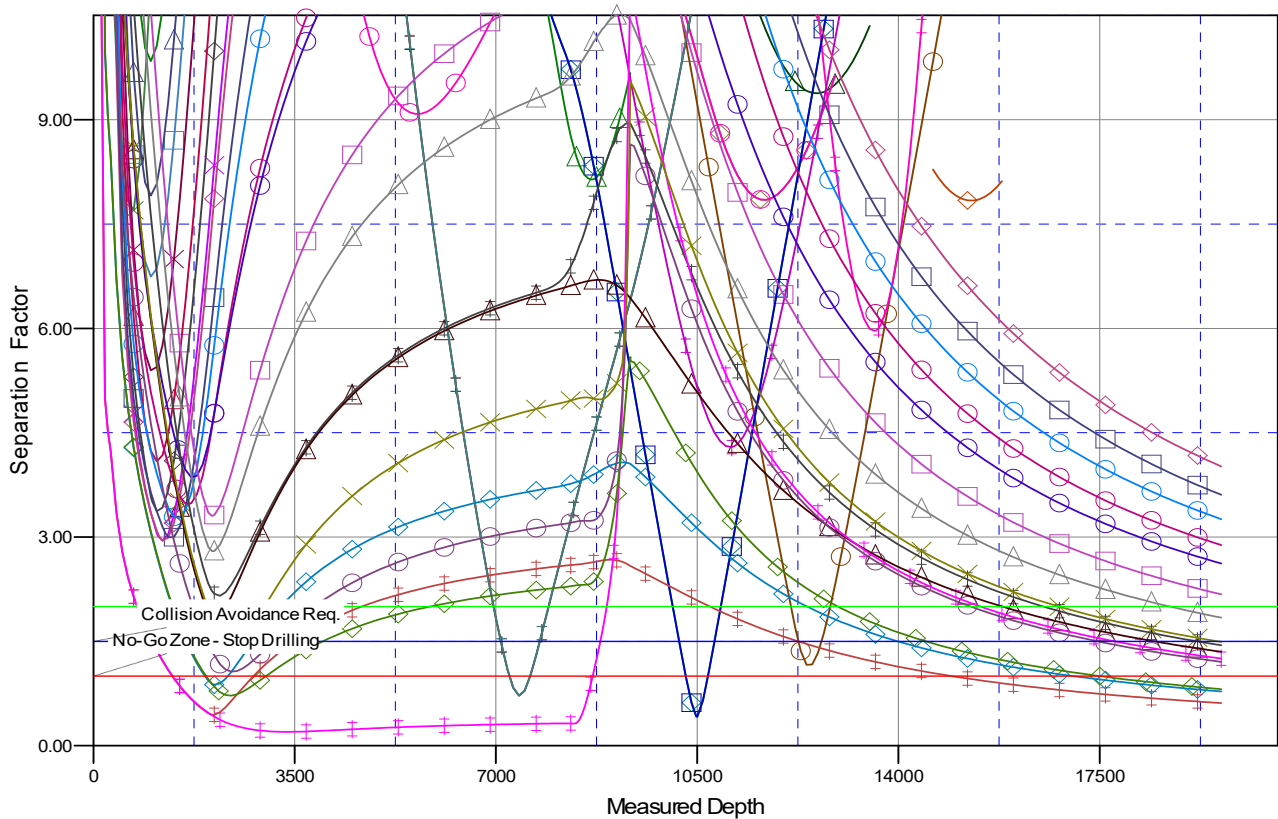
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Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

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Offset Depths are relative to Offset Datum
Central Meridian is -105.500000

Coordinates are relative to: EDMUNDSON 19NA
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 15-66-2928 20CDH, OWB, OWB V0	EDMUNDSON 09N, OWB, PLAN #1 V0
EDMUNDSON LE 3382HC, OWB, OWB V0	PC 15-66-2928 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
ERNEST 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
KIMMEL 12-33, OWB, OWB V0	EDMUNDSON 02N, OWB, PLAN #1 V0	EDMUNDSON 17N, OWB, PLAN #1 V0
OHD 1, OWB, OWB V0	EDMUNDSON 03N, OWB, PLAN #1 V0	EDMUNDSON 18N, OWB, PLAN #1 V0
PC 15-66-2928, OWB, OWB V0	EDMUNDSON 04NA, OWB, PLAN #1 V0	EDMUNDSON 20C, OWB, PLAN #1 V0
PC 15-66-2928 14CDH, OWB, OWB V0	EDMUNDSON 05N, OWB, PLAN #1 V0	EDMUNDSON 21N, OWB, PLAN #1 V0
PC 15-66-2928 17NH, OWB, OWB V0	EDMUNDSON 06N, OWB, PLAN #1 V0	EDMUNDSON 22N, OWB, PLAN #1 V0
PC 15-66-2928 19NH, ST01, ST01 V0	EDMUNDSON 07NA, OWB, PLAN #1 V0	EDMUNDSON 23N, OWB, PLAN #1 V0
PC 15-66-2928 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