



WELL DETAILS: EDMUNDSON 18N

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	1218055.19	3193435.24	39.929877	-104.810241

Project: WELD COUNTY
 Site: Edmundson Pad
 Well: EDMUNDSON 18N
 Wellbore: OWB
 Design: PLAN #1
 Lat: 39.929877
 Long: -104.810241
 GL: 5052.0
 KB: KB 25 @ 5077.0usft



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

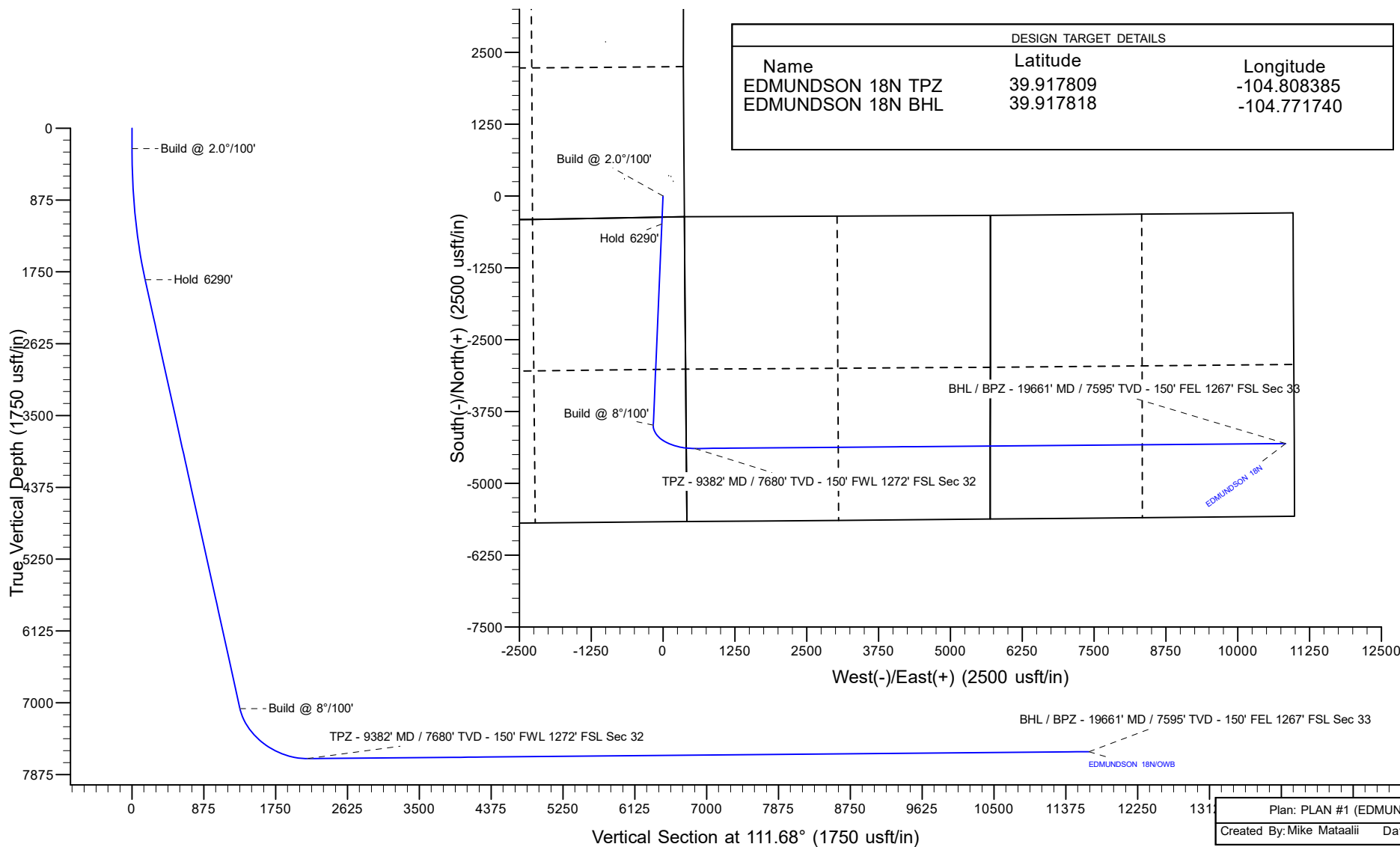
Magnetic Field
 Strength: 53708.9nT
 Dip Angle: 66.97°
 Date: 12/31/2004
 Model: IGRF2000

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	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'
1942.3	33.85	182.43	1845.5	-485.0	-20.6	2.00	182.43	160.0	Hold 6290'
8232.7	33.85	182.43	7070.0	-3985.3	-169.4	0.00	0.00	1314.8	Build @ 8°/100'
9382.8	90.47	89.52	7680.0	-4391.9	554.9	8.00	-92.15	2138.0	TPZ - 9382' MD / 7680' TVD - 150' FWL 1272' FSL Sec 32
19661.6	90.47	89.52	7595.0	-4306.3	10832.9	0.00	0.00	11657.5	BHL / BPZ - 19661' MD / 7595' TVD - 150' FEL 1267' FSL Sec 33

DESIGN TARGET DETAILS

Name	Latitude	Longitude
EDMUNDSON 18N TPZ	39.917809	-104.808385
EDMUNDSON 18N BHL	39.917818	-104.771740



PDC Energy Inc.
Anticollision Summary Report

Company:	PDC - PLANNING DB	Local Co-ordinate Reference:	Well EDMUNDSON 18N
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 18N	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	19,661.6	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	12,546.7	7,666.8	2,042.6	1,798.8	8.377	CC, ES
CUTLER 1-A - OWB - OWB	12,600.0	7,666.4	2,043.3	1,799.3	8.374	SF
CUTLER 1D - OWB - OWB						Out of range
EDMUNDSON LE 33-082HC - OWB - OWB	0.0	2.0	26.2			
EDMUNDSON LE 33-082HC - OWB - OWB	400.0	401.7	27.3	23.3	6.782	ES
EDMUNDSON LE 33-082HC - OWB - OWB	600.0	600.6	34.6	28.5	5.681	SF
ERGER 1 - OWB - OWB	12,450.3	7,682.6	489.1	247.3	2.023	CC
ERGER 1 - OWB - OWB	12,500.0	7,682.2	491.6	244.8	1.992	Collision Risk Procedures R
ERNEST H KALLSEN 2 - OWB - OWB	11,187.4	7,703.1	1,949.2	1,736.1	9.146	CC
ERNEST H KALLSEN 2 - OWB - OWB	11,300.0	7,702.1	1,952.5	1,734.9	8.971	ES
ERNEST H KALLSEN 2 - OWB - OWB	11,800.0	7,698.0	2,043.2	1,806.9	8.647	SF
ERNST H KALLSEN 1 - OWB - OWB	11,187.4	7,701.1	1,949.2	1,736.2	9.148	CC
ERNST H KALLSEN 1 - OWB - OWB	11,300.0	7,700.1	1,952.5	1,734.9	8.972	ES
ERNST H KALLSEN 1 - OWB - OWB	11,800.0	7,696.0	2,043.2	1,807.0	8.648	SF
EVERETTE DAHLINGER A1 - OWB - OWB						Out of range
FARNER 1 - OWB - OWB	13,600.0	7,663.1	697.8	544.5	4.554	SF
FARNER 1 - OWB - OWB	13,699.0	7,662.3	690.7	540.0	4.584	CC, ES
FREEMAN 1 - OWB - OWB	7,739.4	6,681.3	118.8	-63.9	0.650	No-Go Zone - Stop Drilling, (
FREEMAN 1-A - OWB - OWB	7,739.4	6,675.3	118.8	-63.8	0.651	No-Go Zone - Stop Drilling, (
GREEN 1 - OWB - OWB						Out of range
IKE 1 - OWB - OWB	19,661.6	7,653.0	2,493.9	2,196.9	8.398	CC, ES, SF
KIMMEL 12-33 - OWB - OWB	15,235.1	7,658.6	2,202.3	1,891.0	7.074	CC, ES
KIMMEL 12-33 - OWB - OWB	15,300.0	7,658.1	2,203.3	1,891.6	7.070	SF
OHD 1 - OWB - OWB	8,988.2	7,641.0	2,470.2	2,284.9	13.333	CC
OHD 1 - OWB - OWB	9,000.0	7,646.0	2,470.2	2,284.7	13.311	ES
OHD 1 - OWB - OWB	9,200.0	7,708.2	2,497.3	2,306.2	13.073	SF
PC 1S-66-2928 - OWB - OWB	287.5	323.3	2,217.5	2,214.2	678.379	CC
PC 1S-66-2928 - OWB - OWB	300.0	333.8	2,217.5	2,214.2	669.544	ES
PC 1S-66-2928 - OWB - OWB	1,700.0	1,691.6	2,479.1	2,466.0	188.813	SF
PC 1S-66-2928 14CDH - OWB - OWB	0.0	17.0	2,184.0			
PC 1S-66-2928 14CDH - OWB - OWB	200.0	198.9	2,185.0	2,182.4	845.685	ES
PC 1S-66-2928 14CDH - OWB - OWB	2,200.0	2,579.0	2,472.0	2,450.2	113.406	SF
PC 1S-66-2928 17NH - OWB - OWB	0.0	17.0	2,163.3			
PC 1S-66-2928 17NH - OWB - OWB	279.6	311.4	2,164.9	2,162.0	739.885	ES
PC 1S-66-2928 17NH - OWB - OWB	3,000.0	3,453.5	2,496.0	2,462.9	75.339	SF
PC 1S-66-2928 17NH - ST01 - ST01	0.0	17.0	2,163.3			
PC 1S-66-2928 17NH - ST01 - ST01	279.6	311.4	2,164.9	2,162.0	739.885	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 18N	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	3,000.0	3,453.5	2,496.0	2,462.9	75.339	SF
PC 1S-66-2928 19NH - OWB - OWB	1,633.2	2,376.5	1,995.0	1,974.8	99.045	CC, ES
PC 1S-66-2928 19NH - OWB - OWB	4,100.0	4,650.4	2,493.7	2,443.7	49.884	SF
PC 1S-66-2928 20CDH - OWB - OWB	1,706.5	2,447.1	1,925.4	1,902.8	85.003	CC, ES
PC 1S-66-2928 20CDH - OWB - OWB	5,000.0	5,463.7	2,491.3	2,429.5	40.297	SF
PC 1S-66-2928 9NH - OWB - OWB	0.0	15.0	1,996.8			
PC 1S-66-2928 9NH - OWB - OWB	200.0	201.6	1,997.8	1,995.2	770.360	ES
PC 1S-66-2928 9NH - OWB - OWB	2,100.0	1,841.0	2,453.0	2,435.3	139.022	SF
POLLARD 1 - OWB - OWB						Out of range
PRAIRIE LE 31-369HC - OWB - OWB	8,467.8	18,172.0	1,876.1	1,646.5	8.170	CC
PRAIRIE LE 31-369HC - OWB - OWB	8,500.0	18,172.0	1,877.1	1,645.6	8.108	ES
PRAIRIE LE 31-369HC - OWB - OWB	8,650.0	18,222.4	1,905.9	1,667.2	7.984	SF
REASONER 1 - OWB - OWB	10,528.7	7,712.5	295.1	95.2	1.476	Collision Avoidance Req., CC
REASONER 1 - OWB - OWB	10,600.0	7,711.9	303.6	94.7	1.453	Collision Avoidance Req., ES
REASONER 1-A - OWB - OWB	11,100.0	7,714.8	698.4	482.2	3.229	SF
REASONER 1-A - OWB - OWB	11,196.7	7,714.0	691.7	478.2	3.240	CC, ES
REASONER 1A-X - OWB - OWB	10,528.7	7,720.5	295.1	95.0	1.475	Collision Avoidance Req., CC
REASONER 1A-X - OWB - OWB	10,600.0	7,719.9	303.6	94.6	1.452	Collision Avoidance Req., ES
SUPERS 1 - OWB - OWB	5,197.0	4,558.7	1,129.9	1,009.1	9.351	CC
SUPERS 1 - OWB - OWB	5,300.0	4,644.3	1,131.3	1,008.0	9.176	ES
SUPERS 1 - OWB - OWB	5,900.0	5,142.6	1,195.8	1,059.5	8.771	SF

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Reference Site:	Edmundson Pad	MD Reference:	KB 25 @ 5077.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	EDMUNDSON 18N	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
Edmundson Pad						
Edmundson Pad						
EDMUNDSON 01N - OWB - PLAN #1	623.5	630.7	85.1	77.6	11.404	CC
EDMUNDSON 01N - OWB - PLAN #1	700.0	707.0	85.9	77.6	10.328	ES
EDMUNDSON 01N - OWB - PLAN #1	900.0	905.7	97.4	86.7	9.045	SF
EDMUNDSON 02N - OWB - PLAN #1	682.7	690.8	74.8	65.9	8.416	CC
EDMUNDSON 02N - OWB - PLAN #1	700.0	708.1	74.8	65.7	8.226	ES
EDMUNDSON 02N - OWB - PLAN #1	900.0	907.4	82.4	70.9	7.155	SF
EDMUNDSON 03N - OWB - PLAN #1	735.5	744.4	65.8	56.2	6.825	CC
EDMUNDSON 03N - OWB - PLAN #1	800.0	808.9	66.4	56.1	6.406	ES
EDMUNDSON 03N - OWB - PLAN #1	900.0	908.6	70.2	58.6	6.059	SF
EDMUNDSON 04NA - OWB - PLAN #1	812.1	822.3	58.0	46.7	5.168	CC, ES
EDMUNDSON 04NA - OWB - PLAN #1	1,000.0	1,009.9	64.1	50.7	4.794	SF
EDMUNDSON 05N - OWB - PLAN #1	949.9	962.4	52.0	38.4	3.836	CC
EDMUNDSON 05N - OWB - PLAN #1	1,000.0	1,012.4	52.4	38.4	3.726	ES
EDMUNDSON 05N - OWB - PLAN #1	1,100.0	1,112.3	56.0	40.8	3.699	SF
EDMUNDSON 06N - OWB - PLAN #1	1,010.1	1,023.4	49.1	34.2	3.301	CC, ES
EDMUNDSON 06N - OWB - PLAN #1	1,100.0	1,113.3	50.5	34.7	3.196	SF
EDMUNDSON 07NA - OWB - PLAN #1	1,109.4	1,124.2	48.8	33.2	3.117	CC, ES
EDMUNDSON 07NA - OWB - PLAN #1	1,200.0	1,214.8	50.3	33.8	3.053	SF
EDMUNDSON 08C - OWB - PLAN #1	1,018.8	1,031.9	51.3	37.2	3.641	CC
EDMUNDSON 08C - OWB - PLAN #1	1,200.0	1,215.1	51.9	36.2	3.294	ES, SF
EDMUNDSON 09N - OWB - PLAN #1	901.3	912.3	55.9	43.9	4.663	CC
EDMUNDSON 09N - OWB - PLAN #1	1,300.0	1,316.8	56.3	40.4	3.535	ES
EDMUNDSON 09N - OWB - PLAN #1	19,661.6	18,725.4	1,903.1	1,318.5	3.255	SF
EDMUNDSON 10N - OWB - PLAN #1	1,323.5	1,341.2	62.2	47.0	4.079	CC
EDMUNDSON 10N - OWB - PLAN #1	1,400.0	1,417.7	63.0	46.9	3.931	ES
EDMUNDSON 10N - OWB - PLAN #1	19,661.6	18,887.9	1,690.6	1,104.6	2.885	SF
EDMUNDSON 11NA - OWB - PLAN #1	1,448.3	1,467.7	69.3	53.6	4.402	CC
EDMUNDSON 11NA - OWB - PLAN #1	1,500.0	1,519.4	69.6	53.3	4.266	ES
EDMUNDSON 11NA - OWB - PLAN #1	19,661.6	18,774.0	1,494.0	916.8	2.588	SF
EDMUNDSON 12C - OWB - PLAN #1	1,478.7	1,498.4	77.2	61.8	5.001	CC
EDMUNDSON 12C - OWB - PLAN #1	1,500.0	1,519.7	77.3	61.6	4.924	ES
EDMUNDSON 12C - OWB - PLAN #1	19,661.6	19,196.7	1,276.7	689.9	2.176	SF
EDMUNDSON 13N - OWB - PLAN #1	1,820.4	1,822.8	59.5	41.6	3.321	CC
EDMUNDSON 13N - OWB - PLAN #1	1,900.0	1,902.0	60.2	40.6	3.070	ES
EDMUNDSON 13N - OWB - PLAN #1	19,661.6	19,045.4	1,058.6	475.9	1.817	Collision Risk Procedures Required
EDMUNDSON 14N - OWB - PLAN #1	1,851.4	1,853.3	49.6	31.3	2.700	CC
EDMUNDSON 14N - OWB - PLAN #1	1,942.3	1,943.8	50.6	30.2	2.484	ES
EDMUNDSON 14N - OWB - PLAN #1	19,661.6	19,229.3	845.3	260.0	1.444	Collision Avoidance Required, SF
EDMUNDSON 15NA - OWB - PLAN #1	1,941.0	1,942.5	39.3	19.4	1.975	Collision Risk Procedures Required
EDMUNDSON 15NA - OWB - PLAN #1	2,100.0	2,101.2	40.5	17.3	1.745	Collision Risk Procedures Required
EDMUNDSON 15NA - OWB - PLAN #1	19,661.6	19,150.0	666.3	114.2	1.207	Collision Avoidance Required, SF
EDMUNDSON 16C - OWB - PLAN #1	1,905.9	1,906.9	30.5	11.3	1.588	Collision Risk Procedures Required
EDMUNDSON 16C - OWB - PLAN #1	19,661.6	19,565.5	450.2	-116.2	0.795	No-Go Zone - Stop Drilling, ES
EDMUNDSON 17N - OWB - PLAN #1	1,979.7	1,980.1	9.8	-10.7	0.478	No-Go Zone - Stop Drilling, CC
EDMUNDSON 17N - OWB - PLAN #1	19,661.6	19,467.9	219.7	-339.1	0.393	No-Go Zone - Stop Drilling, ES
EDMUNDSON 19NA - OWB - PLAN #1	2,011.0	2,010.7	9.8	-11.3	0.462	No-Go Zone - Stop Drilling, CC
EDMUNDSON 19NA - OWB - PLAN #1	2,100.0	2,099.6	10.4	-13.0	0.445	No-Go Zone - Stop Drilling, ES
EDMUNDSON 19NA - OWB - PLAN #1	19,661.6	19,613.4	291.0	-183.4	0.613	No-Go Zone - Stop Drilling, ES
EDMUNDSON 20C - OWB - PLAN #1	2,060.3	2,059.7	19.4	-2.6	0.882	No-Go Zone - Stop Drilling, CC
EDMUNDSON 20C - OWB - PLAN #1	2,300.0	2,299.3	21.4	-5.7	0.788	No-Go Zone - Stop Drilling, ES
EDMUNDSON 20C - OWB - PLAN #1	19,661.6	20,024.7	451.9	-91.9	0.831	No-Go Zone - Stop Drilling, ES
EDMUNDSON 21N - OWB - PLAN #1	2,090.7	2,089.9	29.3	6.6	1.293	Collision Avoidance Required, CC
EDMUNDSON 21N - OWB - PLAN #1	2,200.0	2,198.7	30.5	5.4	1.217	Collision Avoidance Required, ES

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

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Company:	PDC - PLANNING DB	Local Co-ordinate Reference:	Well EDMUNDSON 18N
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 18N	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

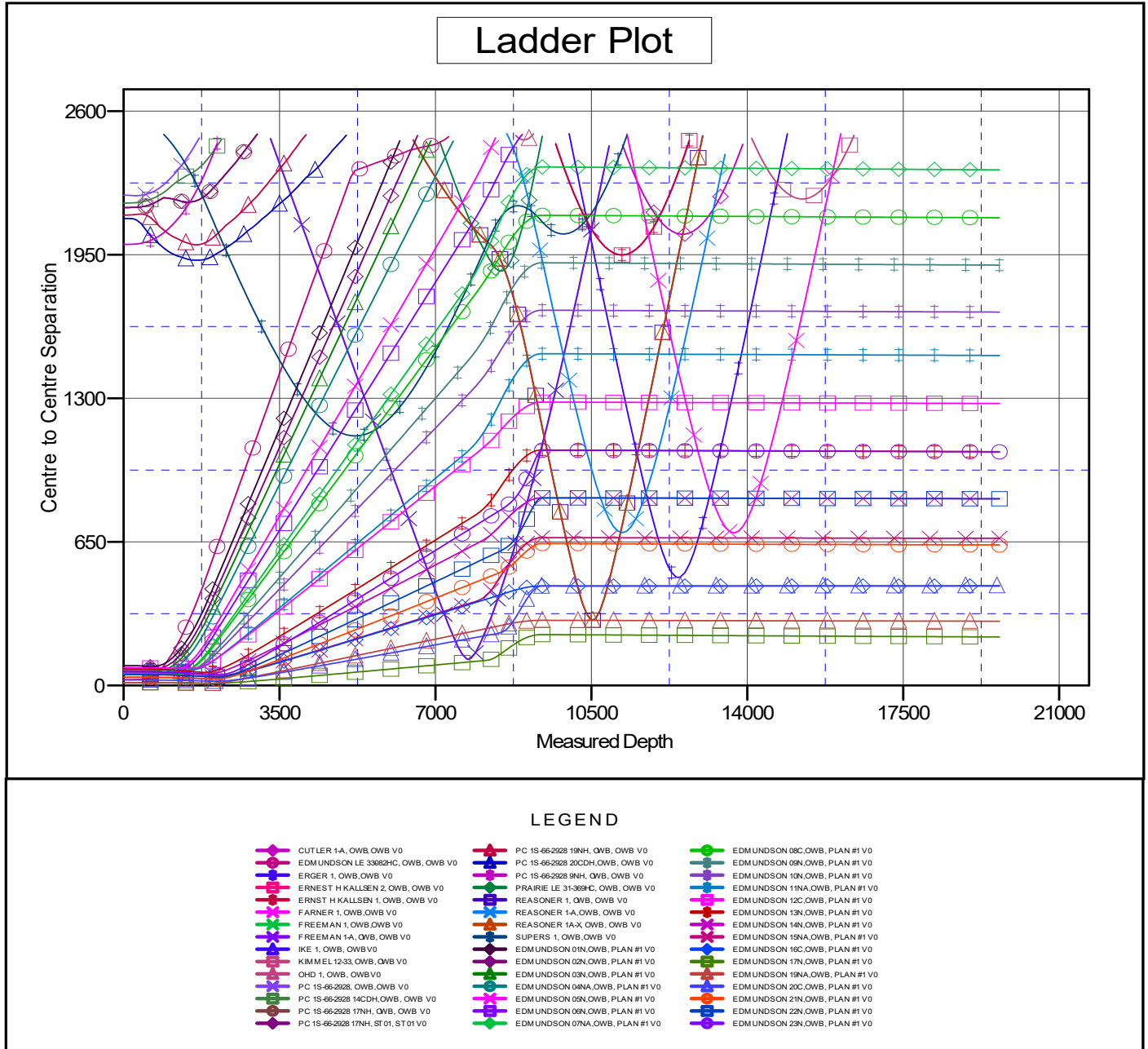
Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Edmundson Pad						
EDMUNDSON 21N - OWB - PLAN #1	19,661.6	19,963.5	636.3	48.0	1.082	Collision Avoidance Req., SF
EDMUNDSON 22N - OWB - PLAN #1	2,121.4	2,120.4	39.4	16.2	1.697	Collision Risk Procedures R
EDMUNDSON 22N - OWB - PLAN #1	2,200.0	2,198.5	40.1	15.1	1.606	Collision Risk Procedures R
EDMUNDSON 22N - OWB - PLAN #1	19,661.6	20,163.5	845.3	257.9	1.439	Collision Avoidance Req., SF
EDMUNDSON 23N - OWB - PLAN #1	2,150.4	2,149.2	49.4	25.6	2.076	CC
EDMUNDSON 23N - OWB - PLAN #1	2,200.0	2,198.4	49.6	24.8	1.998	Collision Risk Procedures R
EDMUNDSON 23N - OWB - PLAN #1	19,661.6	20,233.0	1,058.0	469.2	1.797	Collision Risk Procedures R

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Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	EDMUNDSON 18N	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 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 18N
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

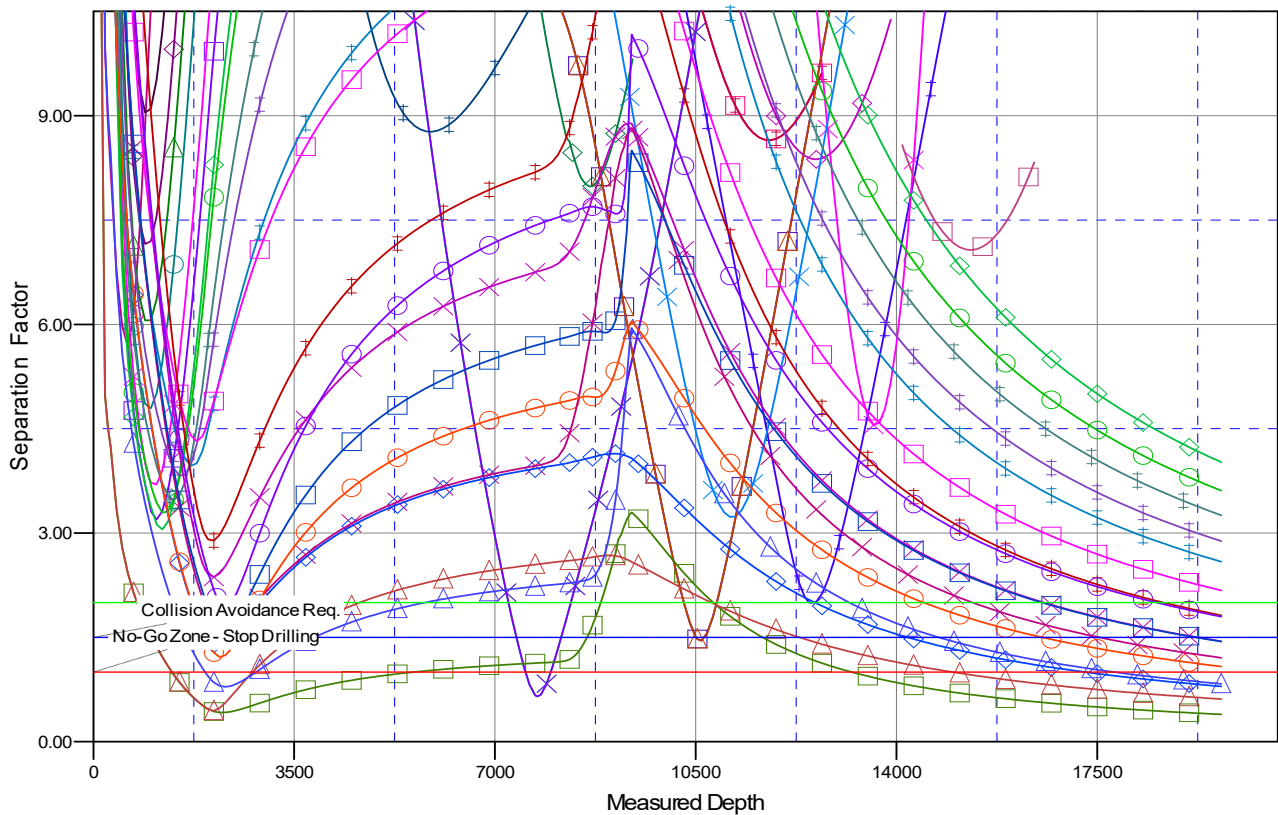
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Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

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 18N
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 19NH, OWB, OWB V0	EDMUNDSON 08C, OWB, PLAN #1 V0
EDMUNDSON LE 3382HC, OWB, OWB V0	PC 1S-66-2928 20CDH, OWB, OWB V0	EDMUNDSON 09N, OWB, PLAN #1 V0
ERGER 1, OWB, OWB V0	PC 1S-66-2928 9NH, OWB, OWB V0	EDMUNDSON 10N, OWB, PLAN #1 V0
ERNEST H KALLSEN 2, OWB, OWB V0	PRAIRIE LE 31-369C, OWB, OWB V0	EDMUNDSON 11NA, OWB, PLAN #1 V0
ERNEST H KALLSEN 1, OWB, OWB V0	REASONER 1, OWB, OWB V0	EDMUNDSON 12C, OWB, PLAN #1 V0
FARNER 1, OWB, OWB V0	REASONER 1A, OWB, OWB V0	EDMUNDSON 13N, OWB, PLAN #1 V0
FREEMAN 1, OWB, OWB V0	REASONER 1A-X, OWB, OWB V0	EDMUNDSON 14N, OWB, PLAN #1 V0
FREEMAN 1-A, OWB, OWB V0	SUPERS 1, OWB, OWB V0	EDMUNDSON 15NA, OWB, PLAN #1 V0
IKE 1, 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 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