



WELL DETAILS: EDMUNDSON 21N

| +N/-S | +E/-W | Northing | Easting | Latitude | Longitude |
|-------|-------|------------|------------|-----------|-------------|
| 0.0 | 0.0 | 1218055.19 | 3193397.74 | 39.929878 | -104.810375 |

Project: WELD COUNTY
Site: Edmundson Pad
Well: EDMUNDSON 21N
Wellbore: OWB
Design: PLAN #1
Lat: 39.929878
Long: -104.810375
GL: 5052.0
KB: KB 25 @ 5077.0usft



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

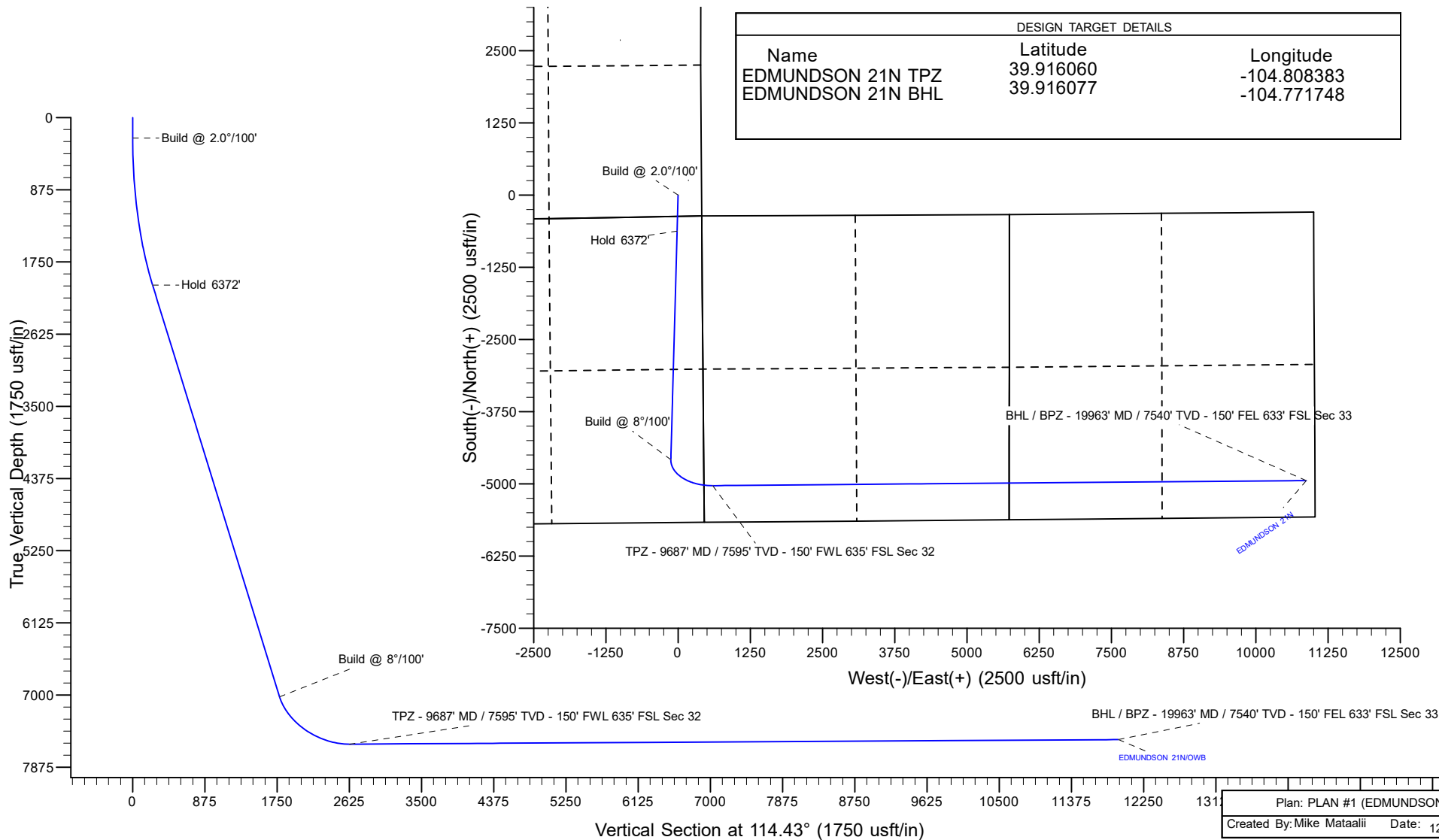
Magnetic Field
Strength: 53708.9nT
Dip Angle: 66.97°
Date: 12/31/2004
Model: IGRF2000

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' |
| 2171.0 | 38.42 | 181.57 | 2030.3 | -620.1 | -16.9 | 2.00 | 181.57 | 241.1 | Hold 6372' |
| 8543.3 | 38.42 | 181.57 | 7022.7 | -4578.5 | -125.1 | 0.00 | 0.00 | 1780.0 | Build @ 8°/100' |
| 9687.3 | 90.31 | 89.51 | 7595.0 | -5029.0 | 597.8 | 8.00 | -91.42 | 2624.5 | TPZ - 9687' MD / 7595' TVD - 150' FWL 635' FSL Sec 32 |
| 19963.5 | 90.31 | 89.51 | 7540.0 | -4940.3 | 10873.5 | 0.00 | 0.00 | 11943.2 | BHL / BPZ - 19963' MD / 7540' TVD - 150' FEL 633' FSL Sec 33 |

DESIGN TARGET DETAILS

| Name | Latitude | Longitude |
|-------------------|-----------|-------------|
| EDMUNDSON 21N TPZ | 39.916060 | -104.808383 |
| EDMUNDSON 21N BHL | 39.916077 | -104.771748 |



PDC Energy Inc.
Anticollision Summary Report

| | | | |
|---------------------------|-------------------|-------------------------------------|----------------------------|
| Company: | PDC - PLANNING DB | Local Co-ordinate Reference: | Well EDMUNDSON 21N |
| 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 21N | 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 | 19,963.5 | 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 |
| Offset Well - Wellbore - Design | | | | | | |
| Edmundson Offsets | | | | | | |
| CUTLER 1-A - OWB - OWB | | | | | | Out of range |
| CUTLER 1D - OWB - OWB | | | | | | Out of range |
| EDMUNDSON LE 33-082HC - OWB - OWB | 0.0 | 2.0 | 63.3 | | | |
| EDMUNDSON LE 33-082HC - OWB - OWB | 300.0 | 301.6 | 63.9 | 60.7 | 19.553 | ES |
| EDMUNDSON LE 33-082HC - OWB - OWB | 800.0 | 796.4 | 87.8 | 79.9 | 11.083 | SF |
| ERGER 1 - OWB - OWB | 12,700.0 | 7,606.9 | 156.9 | -96.0 | 0.621 | No-Go Zone - Stop Drilling, E |
| ERGER 1 - OWB - OWB | 12,754.6 | 7,606.6 | 147.1 | -94.1 | 0.610 | No-Go Zone - Stop Drilling, C |
| ERNEST H KALLSEN 2 - OWB - OWB | 11,491.3 | 7,623.3 | 1,312.7 | 1,100.1 | 6.175 | CC |
| ERNEST H KALLSEN 2 - OWB - OWB | 11,600.0 | 7,622.8 | 1,317.2 | 1,098.7 | 6.029 | ES |
| ERNEST H KALLSEN 2 - OWB - OWB | 11,900.0 | 7,621.2 | 1,374.8 | 1,141.2 | 5.884 | SF |
| ERNST H KALLSEN 1 - OWB - OWB | 11,491.3 | 7,621.3 | 1,312.7 | 1,100.1 | 6.176 | CC |
| ERNST H KALLSEN 1 - OWB - OWB | 11,600.0 | 7,620.8 | 1,317.2 | 1,098.7 | 6.030 | ES |
| ERNST H KALLSEN 1 - OWB - OWB | 11,900.0 | 7,619.2 | 1,374.8 | 1,141.2 | 5.885 | SF |
| EVERETTE DAHLINGER A1 - OWB - OWB | | | | | | Out of range |
| FARNER 1 - OWB - OWB | 13,900.0 | 7,590.5 | 1,330.5 | 1,178.2 | 8.736 | SF |
| FARNER 1 - OWB - OWB | 14,000.0 | 7,589.9 | 1,326.5 | 1,175.2 | 8.767 | ES |
| FARNER 1 - OWB - OWB | 14,003.6 | 7,589.9 | 1,326.5 | 1,175.2 | 8.770 | CC |
| FREEMAN 1 - OWB - OWB | 7,144.4 | 5,947.7 | 137.6 | -32.3 | 0.810 | No-Go Zone - Stop Drilling, C |
| FREEMAN 1-A - OWB - OWB | 7,144.4 | 5,941.7 | 137.6 | -32.2 | 0.810 | No-Go Zone - Stop Drilling, C |
| 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 | 9,245.2 | 7,539.7 | 1,883.0 | 1,693.9 | 9.957 | CC |
| OHD 1 - OWB - OWB | 9,250.0 | 7,541.8 | 1,883.0 | 1,693.7 | 9.948 | ES |
| OHD 1 - OWB - OWB | 9,500.0 | 7,622.9 | 1,928.9 | 1,730.1 | 9.702 | SF |
| PC 1S-66-2928 - OWB - OWB | 288.1 | 324.0 | 2,246.1 | 2,242.8 | 686.779 | CC |
| PC 1S-66-2928 - OWB - OWB | 300.0 | 333.9 | 2,246.1 | 2,242.8 | 678.346 | ES |
| PC 1S-66-2928 - OWB - OWB | 1,600.0 | 1,581.6 | 2,467.6 | 2,455.4 | 202.020 | SF |
| PC 1S-66-2928 14CDH - OWB - OWB | 0.0 | 17.0 | 2,213.0 | | | |
| PC 1S-66-2928 14CDH - OWB - OWB | 200.0 | 198.7 | 2,214.0 | 2,211.5 | 856.997 | ES |
| PC 1S-66-2928 14CDH - OWB - OWB | 2,200.0 | 2,580.1 | 2,497.0 | 2,475.0 | 113.049 | SF |
| PC 1S-66-2928 17NH - OWB - OWB | 0.0 | 17.0 | 2,192.6 | | | |
| PC 1S-66-2928 17NH - OWB - OWB | 280.7 | 312.8 | 2,194.2 | 2,191.3 | 749.196 | ES |
| PC 1S-66-2928 17NH - OWB - OWB | 2,700.0 | 3,114.0 | 2,470.6 | 2,440.8 | 82.726 | SF |
| PC 1S-66-2928 17NH - ST01 - ST01 | 0.0 | 17.0 | 2,192.6 | | | |
| PC 1S-66-2928 17NH - ST01 - ST01 | 280.7 | 312.8 | 2,194.2 | 2,191.3 | 749.196 | ES |
| PC 1S-66-2928 17NH - ST01 - ST01 | 2,700.0 | 3,114.0 | 2,470.6 | 2,440.8 | 82.726 | 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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|---------------------------|-------------------|-------------------------------------|----------------------------|
| Company: | PDC - PLANNING DB | Local Co-ordinate Reference: | Well EDMUNDSON 21N |
| 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 21N | 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 19NH - OWB - OWB | 1,649.5 | 2,393.7 | 2,017.2 | 1,996.9 | 99.525 | CC, ES |
| PC 1S-66-2928 19NH - OWB - OWB | 3,600.0 | 4,048.8 | 2,476.8 | 2,432.8 | 56.326 | SF |
| PC 1S-66-2928 20CDH - OWB - OWB | 1,724.3 | 2,465.3 | 1,947.8 | 1,925.0 | 85.383 | CC, ES |
| PC 1S-66-2928 20CDH - OWB - OWB | 4,200.0 | 4,800.0 | 2,476.9 | 2,422.9 | 45.927 | SF |
| PC 1S-66-2928 9NH - OWB - OWB | 0.0 | 15.0 | 2,025.8 | | | |
| PC 1S-66-2928 9NH - OWB - OWB | 200.0 | 201.5 | 2,026.8 | 2,024.2 | 781.656 | ES |
| PC 1S-66-2928 9NH - OWB - OWB | 2,100.0 | 1,841.0 | 2,472.7 | 2,454.9 | 138.918 | SF |
| POLLARD 1 - OWB - OWB | | | | | | Out of range |
| PRAIRIE LE 31-369HC - OWB - OWB | 8,740.4 | 18,530.0 | 1,895.8 | 1,647.2 | 7.626 | CC |
| PRAIRIE LE 31-369HC - OWB - OWB | 8,750.0 | 18,530.0 | 1,895.9 | 1,646.7 | 7.609 | ES |
| PRAIRIE LE 31-369HC - OWB - OWB | 8,950.0 | 18,620.0 | 1,933.7 | 1,674.5 | 7.461 | SF |
| REASONER 1 - OWB - OWB | 10,800.0 | 7,631.0 | 343.2 | 140.6 | 1.694 | Collision Risk Procedures Recommended |
| REASONER 1 - OWB - OWB | 10,833.1 | 7,630.9 | 341.6 | 142.1 | 1.712 | Collision Risk Procedures Recommended |
| REASONER 1-A - OWB - OWB | 11,400.0 | 7,634.8 | 1,332.1 | 1,118.1 | 6.223 | SF |
| REASONER 1-A - OWB - OWB | 11,500.0 | 7,634.3 | 1,328.3 | 1,115.3 | 6.236 | ES |
| REASONER 1-A - OWB - OWB | 11,501.4 | 7,634.3 | 1,328.3 | 1,115.3 | 6.237 | CC |
| REASONER 1A-X - OWB - OWB | 10,800.0 | 7,639.0 | 343.2 | 140.5 | 1.693 | Collision Risk Procedures Recommended |
| REASONER 1A-X - OWB - OWB | 10,833.1 | 7,638.9 | 341.6 | 142.0 | 1.711 | Collision Risk Procedures Recommended |
| SUPERS 1 - OWB - OWB | 4,896.5 | 4,175.6 | 1,132.4 | 1,018.0 | 9.898 | CC |
| SUPERS 1 - OWB - OWB | 5,000.0 | 4,256.7 | 1,134.2 | 1,017.3 | 9.703 | ES |
| SUPERS 1 - OWB - OWB | 5,500.0 | 4,648.4 | 1,192.9 | 1,065.2 | 9.344 | SF |

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Anticollision Summary Report

| | | | |
|---------------------------|-------------------|-------------------------------------|----------------------------|
| Company: | PDC - PLANNING DB | Local Co-ordinate Reference: | Well EDMUNDSON 21N |
| 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 21N | 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 01N - OWB - PLAN #1 | 685.6 | 694.2 | 115.8 | 108.4 | 15.690 | CC |
| EDMUNDSON 01N - OWB - PLAN #1 | 700.0 | 708.6 | 115.8 | 108.3 | 15.383 | ES |
| EDMUNDSON 01N - OWB - PLAN #1 | 1,100.0 | 1,104.0 | 143.1 | 130.7 | 11.478 | SF |
| EDMUNDSON 02N - OWB - PLAN #1 | 745.5 | 755.0 | 104.0 | 95.5 | 12.280 | CC |
| EDMUNDSON 02N - OWB - PLAN #1 | 800.0 | 809.4 | 104.4 | 95.3 | 11.511 | ES |
| EDMUNDSON 02N - OWB - PLAN #1 | 1,100.0 | 1,106.6 | 123.4 | 110.4 | 9.497 | SF |
| EDMUNDSON 03N - OWB - PLAN #1 | 797.3 | 807.6 | 92.9 | 84.0 | 10.438 | CC |
| EDMUNDSON 03N - OWB - PLAN #1 | 800.0 | 810.3 | 93.0 | 84.0 | 10.403 | ES |
| EDMUNDSON 03N - OWB - PLAN #1 | 1,100.0 | 1,108.5 | 106.8 | 93.9 | 8.301 | SF |
| EDMUNDSON 04NA - OWB - PLAN #1 | 872.8 | 884.3 | 82.0 | 71.9 | 8.133 | CC |
| EDMUNDSON 04NA - OWB - PLAN #1 | 900.0 | 911.5 | 82.1 | 71.7 | 7.897 | ES |
| EDMUNDSON 04NA - OWB - PLAN #1 | 1,200.0 | 1,209.7 | 98.8 | 84.3 | 6.806 | SF |
| EDMUNDSON 05N - OWB - PLAN #1 | 1,003.9 | 1,017.5 | 71.7 | 59.7 | 5.991 | CC, ES |
| EDMUNDSON 05N - OWB - PLAN #1 | 1,200.0 | 1,213.2 | 77.4 | 62.8 | 5.300 | SF |
| EDMUNDSON 06N - OWB - PLAN #1 | 1,057.8 | 1,072.2 | 63.1 | 49.6 | 4.673 | CC |
| EDMUNDSON 06N - OWB - PLAN #1 | 1,100.0 | 1,114.4 | 63.4 | 49.4 | 4.515 | ES |
| EDMUNDSON 06N - OWB - PLAN #1 | 1,200.0 | 1,214.2 | 66.3 | 50.9 | 4.313 | SF |
| EDMUNDSON 07NA - OWB - PLAN #1 | 1,150.4 | 1,166.3 | 55.5 | 40.3 | 3.649 | CC |
| EDMUNDSON 07NA - OWB - PLAN #1 | 1,200.0 | 1,215.9 | 55.9 | 40.1 | 3.541 | ES |
| EDMUNDSON 07NA - OWB - PLAN #1 | 1,300.0 | 1,315.7 | 59.2 | 42.2 | 3.475 | SF |
| EDMUNDSON 08C - OWB - PLAN #1 | 1,170.3 | 1,186.4 | 50.7 | 34.6 | 3.150 | CC |
| EDMUNDSON 08C - OWB - PLAN #1 | 1,200.0 | 1,216.1 | 50.9 | 34.5 | 3.099 | ES |
| EDMUNDSON 08C - OWB - PLAN #1 | 1,300.0 | 1,316.0 | 53.6 | 36.1 | 3.060 | SF |
| EDMUNDSON 09N - OWB - PLAN #1 | 1,273.8 | 1,291.5 | 47.4 | 29.6 | 2.664 | CC |
| EDMUNDSON 09N - OWB - PLAN #1 | 1,300.0 | 1,317.7 | 47.5 | 29.5 | 2.632 | ES, SF |
| EDMUNDSON 10N - OWB - PLAN #1 | 1,334.3 | 1,352.8 | 47.2 | 28.8 | 2.572 | CC, ES |
| EDMUNDSON 10N - OWB - PLAN #1 | 1,400.0 | 1,418.5 | 47.9 | 29.0 | 2.528 | SF |
| EDMUNDSON 11NA - OWB - PLAN #1 | 1,447.1 | 1,467.2 | 49.4 | 30.5 | 2.621 | CC |
| EDMUNDSON 11NA - OWB - PLAN #1 | 1,500.0 | 1,520.2 | 49.8 | 30.5 | 2.575 | ES, SF |
| EDMUNDSON 12C - OWB - PLAN #1 | 1,465.0 | 1,485.3 | 53.9 | 35.9 | 2.986 | CC |
| EDMUNDSON 12C - OWB - PLAN #1 | 1,500.0 | 1,520.3 | 54.1 | 35.7 | 2.939 | ES |
| EDMUNDSON 12C - OWB - PLAN #1 | 1,600.0 | 1,620.3 | 56.6 | 37.0 | 2.888 | SF |
| EDMUNDSON 13N - OWB - PLAN #1 | 1,894.5 | 1,897.8 | 89.8 | 70.7 | 4.698 | CC |
| EDMUNDSON 13N - OWB - PLAN #1 | 2,000.0 | 2,002.4 | 91.2 | 69.9 | 4.281 | ES |
| EDMUNDSON 13N - OWB - PLAN #1 | 19,963.5 | 19,043.8 | 1,690.5 | 1,104.9 | 2.886 | SF |
| EDMUNDSON 14N - OWB - PLAN #1 | 1,929.9 | 1,932.6 | 79.7 | 60.0 | 4.048 | CC |
| EDMUNDSON 14N - OWB - PLAN #1 | 2,000.0 | 2,002.3 | 80.3 | 59.2 | 3.797 | ES |
| EDMUNDSON 14N - OWB - PLAN #1 | 19,963.5 | 19,227.8 | 1,479.9 | 893.0 | 2.522 | SF |
| EDMUNDSON 15NA - OWB - PLAN #1 | 2,025.2 | 2,027.6 | 68.6 | 47.2 | 3.204 | CC |
| EDMUNDSON 15NA - OWB - PLAN #1 | 2,100.0 | 2,101.9 | 69.3 | 46.3 | 3.010 | ES |
| EDMUNDSON 15NA - OWB - PLAN #1 | 19,963.5 | 19,148.5 | 1,276.7 | 697.8 | 2.205 | SF |
| EDMUNDSON 16C - OWB - PLAN #1 | 1,997.1 | 1,998.9 | 60.3 | 39.4 | 2.888 | CC |
| EDMUNDSON 16C - OWB - PLAN #1 | 2,100.0 | 2,101.3 | 61.5 | 38.4 | 2.661 | ES |
| EDMUNDSON 16C - OWB - PLAN #1 | 19,963.5 | 19,563.8 | 1,077.2 | 493.8 | 1.846 | Collision Risk Procedures Required |
| EDMUNDSON 17N - OWB - PLAN #1 | 2,069.8 | 2,070.9 | 39.1 | 16.8 | 1.756 | Collision Risk Procedures Required |
| EDMUNDSON 17N - OWB - PLAN #1 | 2,171.0 | 2,171.8 | 40.3 | 15.7 | 1.639 | Collision Risk Procedures Required |
| EDMUNDSON 17N - OWB - PLAN #1 | 19,963.5 | 19,466.0 | 845.3 | 258.8 | 1.441 | Collision Avoidance Required, SF |
| EDMUNDSON 18N - OWB - PLAN #1 | 2,089.9 | 2,090.7 | 29.3 | 6.6 | 1.293 | Collision Avoidance Required, CC |
| EDMUNDSON 18N - OWB - PLAN #1 | 2,200.0 | 2,200.5 | 30.6 | 5.4 | 1.213 | Collision Avoidance Required, ES |
| EDMUNDSON 18N - OWB - PLAN #1 | 19,963.5 | 19,659.8 | 636.3 | 48.3 | 1.082 | Collision Avoidance Required, SF |
| EDMUNDSON 19NA - OWB - PLAN #1 | 2,177.3 | 2,177.8 | 19.1 | -5.2 | 0.785 | No-Go Zone - Stop Drilling, CC |
| EDMUNDSON 19NA - OWB - PLAN #1 | 2,400.0 | 2,400.3 | 20.9 | -8.2 | 0.719 | No-Go Zone - Stop Drilling, ES |
| EDMUNDSON 19NA - OWB - PLAN #1 | 19,963.5 | 19,611.5 | 446.8 | -102.7 | 0.813 | No-Go Zone - Stop Drilling, ES |

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

PDC Energy Inc.
Anticollision Summary Report

| | | | |
|---------------------------|-------------------|-------------------------------------|----------------------------|
| Company: | PDC - PLANNING DB | Local Co-ordinate Reference: | Well EDMUNDSON 21N |
| 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 21N | 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 |

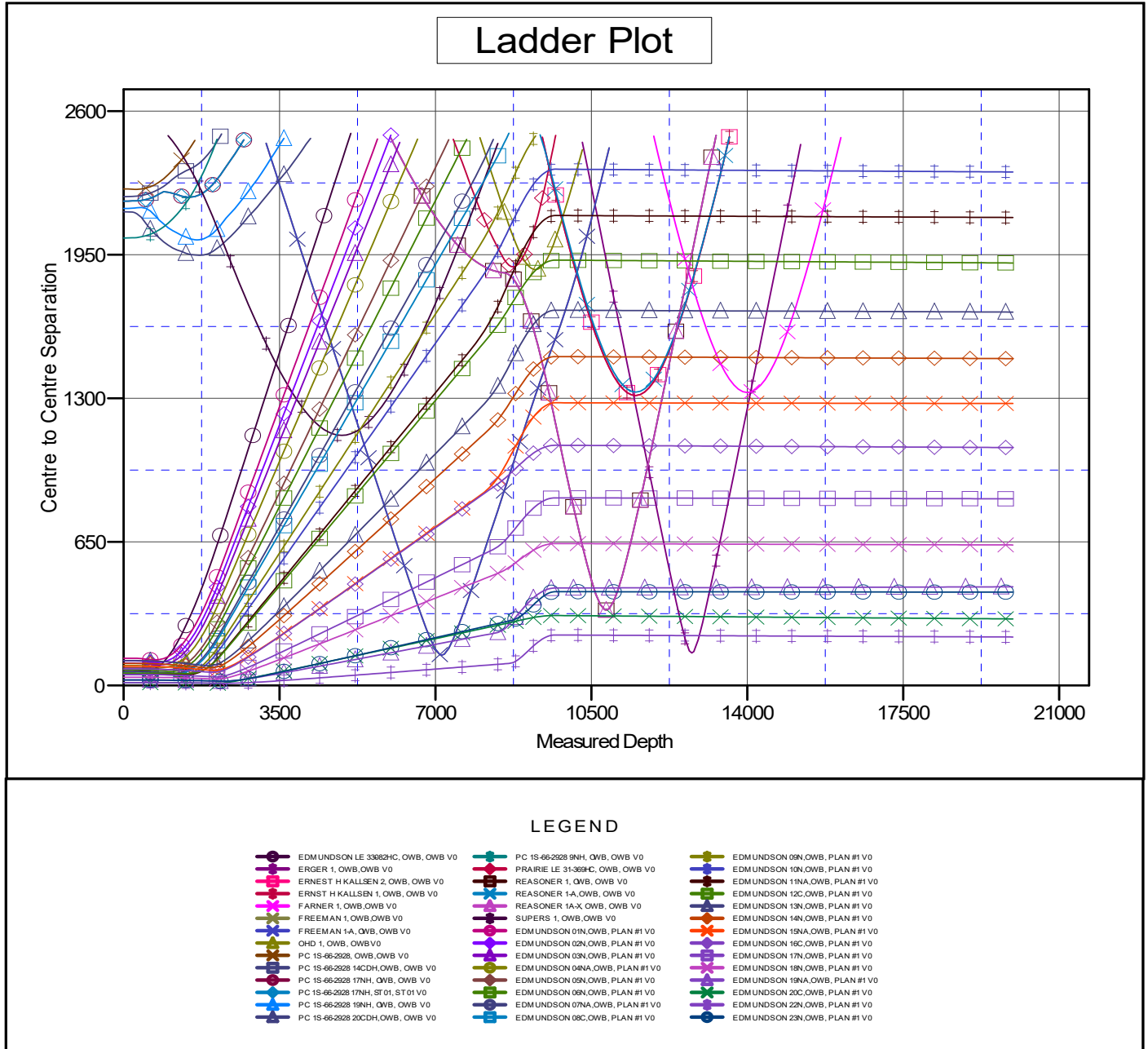
| Summary | | | | | | |
|-------------------------------|---------------------------------|------------------------------|---------------------------------|----------------------------------|-------------------|--------------------------------|
| Site Name | Reference Measured Depth (usft) | Offset Measured Depth (usft) | Distance Between Centres (usft) | Distance Between Ellipses (usft) | Separation Factor | Warning |
| Edmundson Pad | | | | | | |
| EDMUNDSON 20C - OWB - PLAN #1 | 2,115.9 | 2,116.1 | 9.8 | -13.3 | 0.425 | No-Go Zone - Stop Drilling, (|
| EDMUNDSON 20C - OWB - PLAN #1 | 2,171.0 | 2,171.2 | 10.1 | -14.4 | 0.412 | No-Go Zone - Stop Drilling, \$ |
| EDMUNDSON 20C - OWB - PLAN #1 | 19,963.5 | 20,024.7 | 301.5 | -164.9 | 0.646 | No-Go Zone - Stop Drilling, E |
| EDMUNDSON 22N - OWB - PLAN #1 | 2,277.5 | 2,277.3 | 10.0 | -16.5 | 0.377 | No-Go Zone - Stop Drilling, (|
| EDMUNDSON 22N - OWB - PLAN #1 | 2,500.0 | 2,499.8 | 10.6 | -20.5 | 0.340 | No-Go Zone - Stop Drilling, \$ |
| EDMUNDSON 22N - OWB - PLAN #1 | 19,963.5 | 20,163.5 | 219.7 | -340.4 | 0.392 | No-Go Zone - Stop Drilling, E |
| EDMUNDSON 23N - OWB - PLAN #1 | 2,281.2 | 2,280.8 | 19.7 | -6.8 | 0.742 | No-Go Zone - Stop Drilling, (|
| EDMUNDSON 23N - OWB - PLAN #1 | 2,400.0 | 2,399.5 | 20.5 | -8.6 | 0.704 | No-Go Zone - Stop Drilling, \$ |
| EDMUNDSON 23N - OWB - PLAN #1 | 19,963.5 | 20,233.0 | 422.6 | -165.6 | 0.718 | No-Go Zone - Stop Drilling, E |

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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 21N | 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 21N
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

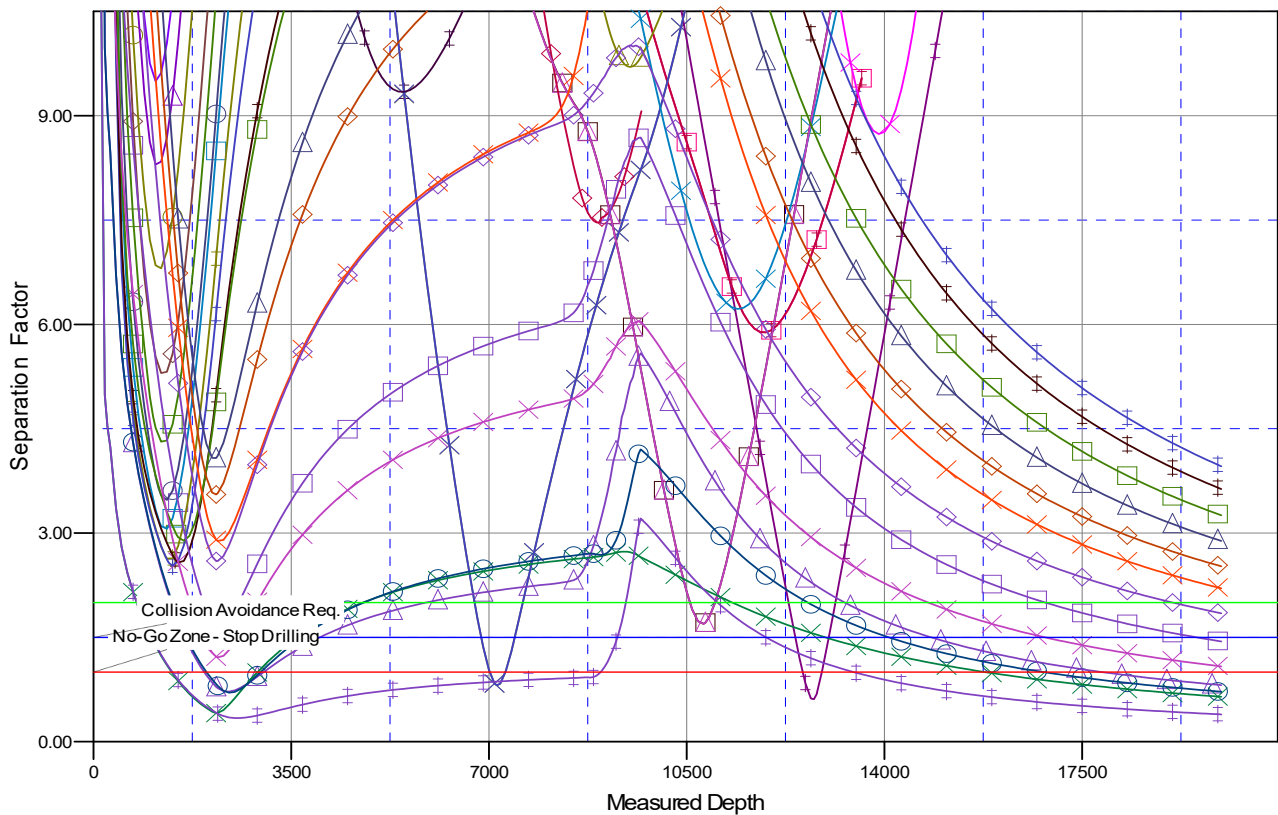
PDC Energy Inc.
Anticollision Summary Report

| | | | |
|---------------------------|-------------------|-------------------------------------|----------------------------|
| Company: | PDC - PLANNING DB | Local Co-ordinate Reference: | Well EDMUNDSON 21N |
| 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 21N | 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 21N
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.45°

Separation Factor Plot



LEGEND

| | | |
|-----------------------------------|----------------------------------|---------------------------------|
| EDMUNDSON LE 3362HC, OWB, OWB V0 | PC 1S-66-2928 9NH, OWB, OWB V0 | EDMUNDSON 09N, OWB, PLAN #1 V0 |
| ERGER 1, OWB, OWB V0 | PRAIRIE LE 31-369HC, OWB, OWB V0 | EDMUNDSON 10N, OWB, PLAN #1 V0 |
| ERNEST H KALLSEN 2, OWB, OWB V0 | REASONER 1, OWB, OWB V0 | EDMUNDSON 11NA, OWB, PLAN #1 V0 |
| ERNEST H KALLSEN 1, OWB, OWB V0 | REASONER 1A, OWB, OWB V0 | EDMUNDSON 12C, OWB, PLAN #1 V0 |
| FARNER 1, OWB, OWB V0 | REASONER 1A-X, OWB, OWB V0 | EDMUNDSON 13N, OWB, PLAN #1 V0 |
| FREEMAN 1, OWB, OWB V0 | SUPERS 1, OWB, OWB V0 | EDMUNDSON 14N, OWB, PLAN #1 V0 |
| FREEMAN 1-A, OWB, OWB V0 | EDMUNDSON 01N, OWB, PLAN #1 V0 | EDMUNDSON 15NA, OWB, PLAN #1 V0 |
| QHD 1, OWB, OWB V0 | EDMUNDSON 02N, OWB, PLAN #1 V0 | EDMUNDSON 16C, OWB, PLAN #1 V0 |
| PC 1S-66-2928, OWB, OWB V0 | EDMUNDSON 03N, OWB, PLAN #1 V0 | EDMUNDSON 17N, OWB, PLAN #1 V0 |
| PC 1S-66-2928 14CDH, OWB, OWB V0 | EDMUNDSON 04NA, OWB, PLAN #1 V0 | EDMUNDSON 18N, OWB, PLAN #1 V0 |
| PC 1S-66-2928 17NH, OWB, OWB V0 | EDMUNDSON 05N, OWB, PLAN #1 V0 | EDMUNDSON 19NA, OWB, PLAN #1 V0 |
| PC 1S-66-2928 17NH, ST01, ST01 V0 | EDMUNDSON 06N, OWB, PLAN #1 V0 | EDMUNDSON 20C, OWB, PLAN #1 V0 |
| PC 1S-66-2928 19NH, OWB, OWB V0 | EDMUNDSON 07NA, OWB, PLAN #1 V0 | EDMUNDSON 22N, OWB, PLAN #1 V0 |
| PC 1S-66-2928 20CDH, OWB, OWB V0 | EDMUNDSON 08C, OWB, PLAN #1 V0 | EDMUNDSON 23N, OWB, PLAN #1 V0 |