

K.P. Kauffman Company, Inc.

Weld County, CO (NAD 83)

Sec. 33-T4N-R67W (Deering 33H Pad)

Deering 33-1H - A1

Plan A

Plan: Rev A0 (Permitting Plan Only)

Sperry Drilling Services

Proposal Report

25 July, 2013

Well Coordinates: 1,341,870.86 N, 3,166,344.76 E (40° 16' 13.08" N, 104° 54' 13.93" W)

Ground Level: 4,905.00 ft

Local Coordinate Origin: Centered on Well Deering 33-1H - Slot A1

Viewing Datum: GL @ 4905.00ft (Ground Level)

TVDs to System: N

North Reference: True

Unit System: API - US Survey Feet - Custom

Geodetic Scale Factor Applied

Version: 2003.16 Build: 431

HALLIBURTON

Project: Weld County, CO (NAD 83)
 Site: Sec. 33-T4N-R67W (Deering 33H Pad)
 Well: Deering 33-1H
 Wellbore: Plan A
 Design: Rev A0 (Permitting Plan Only)

K.P. Kauffman Company, Inc.

HALLIBURTON

Sperry Drilling

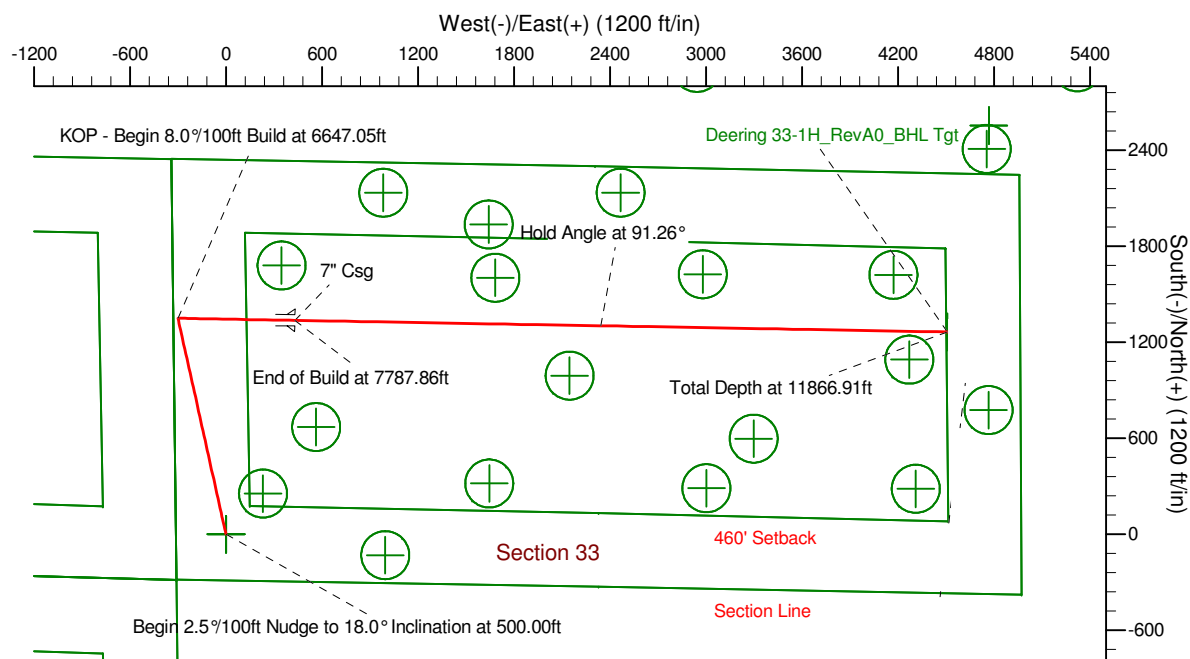
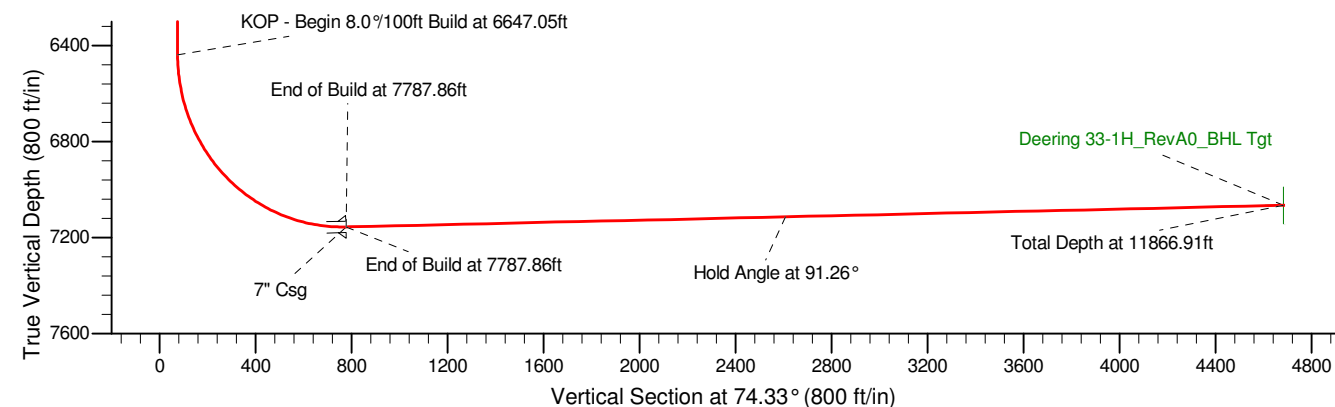
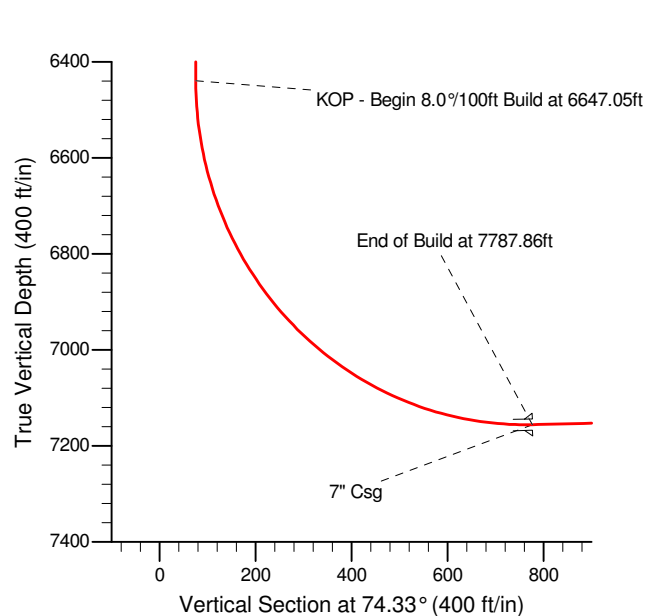
SECTION DETAILS

| Sec | MD | Inc | Azi | TVD | +N/-S | +E/-W | DLeg | TFace | VSec | Target |
|-----|----------|-------|--------|---------|---------|---------|------|--------|---------|-----------------------------|
| 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 2 | 500.00 | 0.00 | 0.00 | 500.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 3 | 1220.00 | 18.00 | 347.47 | 1208.22 | 109.50 | -24.33 | 2.50 | 347.47 | 6.14 | |
| 4 | 4969.27 | 18.00 | 347.47 | 4773.98 | 1240.50 | -275.67 | 0.00 | 0.00 | 69.52 | |
| 5 | 5689.27 | 0.00 | 0.00 | 5482.20 | 1350.00 | -300.00 | 2.50 | 180.00 | 75.66 | |
| 6 | 6647.05 | 0.00 | 0.00 | 6439.98 | 1350.00 | -300.00 | 0.00 | 0.00 | 75.66 | |
| 7 | 7787.86 | 91.26 | 91.02 | 7156.00 | 1337.00 | 431.88 | 8.00 | 91.02 | 776.85 | |
| 8 | 11866.91 | 91.26 | 91.02 | 7066.00 | 1264.54 | 4509.30 | 0.00 | 0.00 | 4683.25 | Deering 33-1H_RevA0_BHL Tgt |



Azimuths to True North
 Magnetic North: 8.67°

Magnetic Field
 Strength: 52759.0snT
 Dip Angle: 66.84°
 Date: 7/24/2013
 Model: BGGM2013



WELL DETAILS: Deering 33-1H

Ground Level: 4905.00
 Northing 1341870.86 Easting 3166344.76 Latitude 40° 16' 13.080 N Longitude 104° 54' 13.932 W

Plan: Rev A0 (Permitting Plan Only) (Deering 33-1H/Plan A)

Created By: Jay Lantz Date: 10:06, July 25 2013

Approved: _____ Date: _____

Plan Report for Deering 33-1H - Rev A0 (Permitting Plan Only)

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) | Toolface Azimuth (°) |
|----------------------------------------------------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|----------------------|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 100.00 | 0.00 | 0.00 | 100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 200.00 | 0.00 | 0.00 | 200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 300.00 | 0.00 | 0.00 | 300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 400.00 | 0.00 | 0.00 | 400.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 500.00 | 0.00 | 0.00 | 500.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Begin 2.5°/100ft Nudge to 18.0° Inclination at 500.00ft | | | | | | | | | | |
| 600.00 | 2.50 | 347.47 | 599.97 | 2.13 | -0.47 | 0.12 | 2.50 | 2.50 | 0.00 | 347.47 |
| 700.00 | 5.00 | 347.47 | 699.75 | 8.51 | -1.89 | 0.48 | 2.50 | 2.50 | 0.00 | 0.00 |
| 800.00 | 7.50 | 347.47 | 799.14 | 19.14 | -4.25 | 1.07 | 2.50 | 2.50 | 0.00 | 0.00 |
| 900.00 | 10.00 | 347.47 | 897.97 | 33.99 | -7.55 | 1.90 | 2.50 | 2.50 | 0.00 | 0.00 |
| 1,000.00 | 12.50 | 347.47 | 996.04 | 53.03 | -11.78 | 2.97 | 2.50 | 2.50 | 0.00 | 0.00 |
| 1,100.00 | 15.00 | 347.47 | 1,093.17 | 76.23 | -16.94 | 4.27 | 2.50 | 2.50 | 0.00 | 0.00 |
| 1,200.00 | 17.50 | 347.47 | 1,189.17 | 103.55 | -23.01 | 5.80 | 2.50 | 2.50 | 0.00 | 0.00 |
| 1,220.00 | 18.00 | 347.47 | 1,208.21 | 109.50 | -24.33 | 6.14 | 2.50 | 2.50 | 0.00 | 0.00 |
| Begin 3749.2775.00ft Tangent at 1220.00ft | | | | | | | | | | |
| 1,300.00 | 18.00 | 347.47 | 1,284.30 | 133.63 | -29.70 | 7.49 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,400.00 | 18.00 | 347.47 | 1,379.40 | 163.80 | -36.40 | 9.18 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,500.00 | 18.00 | 347.47 | 1,474.51 | 193.96 | -43.10 | 10.87 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,600.00 | 18.00 | 347.47 | 1,569.62 | 224.13 | -49.81 | 12.56 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,700.00 | 18.00 | 347.47 | 1,664.72 | 254.30 | -56.51 | 14.25 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,800.00 | 18.00 | 347.47 | 1,759.83 | 284.46 | -63.21 | 15.94 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,900.00 | 18.00 | 347.47 | 1,854.93 | 314.63 | -69.92 | 17.63 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,000.00 | 18.00 | 347.47 | 1,950.04 | 344.79 | -76.62 | 19.32 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,100.00 | 18.00 | 347.47 | 2,045.14 | 374.96 | -83.32 | 21.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,200.00 | 18.00 | 347.47 | 2,140.25 | 405.12 | -90.03 | 22.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,300.00 | 18.00 | 347.47 | 2,235.36 | 435.29 | -96.73 | 24.40 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,400.00 | 18.00 | 347.47 | 2,330.46 | 465.46 | -103.43 | 26.09 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,500.00 | 18.00 | 347.47 | 2,425.57 | 495.62 | -110.14 | 27.78 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,600.00 | 18.00 | 347.47 | 2,520.67 | 525.79 | -116.84 | 29.47 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,700.00 | 18.00 | 347.47 | 2,615.78 | 555.95 | -123.55 | 31.16 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,800.00 | 18.00 | 347.47 | 2,710.88 | 586.12 | -130.25 | 32.85 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,900.00 | 18.00 | 347.47 | 2,805.99 | 616.29 | -136.95 | 34.54 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,000.00 | 18.00 | 347.47 | 2,901.10 | 646.45 | -143.66 | 36.23 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,100.00 | 18.00 | 347.47 | 2,996.20 | 676.62 | -150.36 | 37.92 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,200.00 | 18.00 | 347.47 | 3,091.31 | 706.78 | -157.06 | 39.61 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,300.00 | 18.00 | 347.47 | 3,186.41 | 736.95 | -163.77 | 41.30 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,400.00 | 18.00 | 347.47 | 3,281.52 | 767.12 | -170.47 | 42.99 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,500.00 | 18.00 | 347.47 | 3,376.62 | 797.28 | -177.17 | 44.68 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,600.00 | 18.00 | 347.47 | 3,471.73 | 827.45 | -183.88 | 46.37 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,700.00 | 18.00 | 347.47 | 3,566.83 | 857.61 | -190.58 | 48.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,800.00 | 18.00 | 347.47 | 3,661.94 | 887.78 | -197.28 | 49.76 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,900.00 | 18.00 | 347.47 | 3,757.05 | 917.94 | -203.99 | 51.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4,000.00 | 18.00 | 347.47 | 3,852.15 | 948.11 | -210.69 | 53.14 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4,100.00 | 18.00 | 347.47 | 3,947.26 | 978.28 | -217.39 | 54.83 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4,200.00 | 18.00 | 347.47 | 4,042.36 | 1,008.44 | -224.10 | 56.52 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4,300.00 | 18.00 | 347.47 | 4,137.47 | 1,038.61 | -230.80 | 58.21 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4,400.00 | 18.00 | 347.47 | 4,232.57 | 1,068.77 | -237.51 | 59.90 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4,500.00 | 18.00 | 347.47 | 4,327.68 | 1,098.94 | -244.21 | 61.59 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4,600.00 | 18.00 | 347.47 | 4,422.79 | 1,129.11 | -250.91 | 63.28 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4,700.00 | 18.00 | 347.47 | 4,517.89 | 1,159.27 | -257.62 | 64.97 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4,800.00 | 18.00 | 347.47 | 4,613.00 | 1,189.44 | -264.32 | 66.66 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4,900.00 | 18.00 | 347.47 | 4,708.10 | 1,219.60 | -271.02 | 68.35 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4,969.27 | 18.00 | 347.47 | 4,773.98 | 1,240.50 | -275.67 | 69.52 | 0.00 | 0.00 | 0.00 | 0.00 |
| Begin 2.5°/100ft Drop to Vertical at 4969.27ft | | | | | | | | | | |
| 5,000.00 | 17.23 | 347.47 | 4,803.27 | 1,249.58 | -277.68 | 70.03 | 2.50 | -2.50 | 0.00 | 180.00 |
| 5,100.00 | 14.73 | 347.47 | 4,899.40 | 1,276.45 | -283.66 | 71.54 | 2.50 | -2.50 | 0.00 | 180.00 |
| 5,200.00 | 12.23 | 347.47 | 4,996.63 | 1,299.21 | -288.71 | 72.82 | 2.50 | -2.50 | 0.00 | 180.00 |

Plan Report for Deering 33-1H - Rev A0 (Permitting Plan Only)

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N-S (ft) | +E-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) | Toolface Azimuth (°) |
|--------------------------------------------------|-----------------|-------------|---------------------|-----------|-----------|-----------------------|-----------------------|----------------------|---------------------|----------------------|
| 5,300.00 | 9.73 | 347.47 | 5,094.80 | 1,317.81 | -292.85 | 73.86 | 2.50 | -2.50 | 0.00 | 180.00 |
| 5,400.00 | 7.23 | 347.47 | 5,193.69 | 1,332.20 | -296.04 | 74.66 | 2.50 | -2.50 | 0.00 | 180.00 |
| 5,500.00 | 4.73 | 347.47 | 5,293.14 | 1,342.37 | -298.31 | 75.23 | 2.50 | -2.50 | 0.00 | 180.00 |
| 5,600.00 | 2.23 | 347.47 | 5,392.95 | 1,348.30 | -299.62 | 75.57 | 2.50 | -2.50 | 0.00 | 180.00 |
| 5,689.27 | 0.00 | 347.47 | 5,482.20 | 1,350.00 | -300.00 | 75.66 | 2.50 | -2.50 | 0.00 | -180.00 |
| End of Drop at 5689.27ft | | | | | | | | | | |
| 5,700.00 | 0.00 | 0.00 | 5,492.93 | 1,350.00 | -300.00 | 75.66 | 0.00 | 0.00 | 0.00 | 180.00 |
| 5,800.00 | 0.00 | 0.00 | 5,592.93 | 1,350.00 | -300.00 | 75.66 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5,900.00 | 0.00 | 0.00 | 5,692.93 | 1,350.00 | -300.00 | 75.66 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6,000.00 | 0.00 | 0.00 | 5,792.93 | 1,350.00 | -300.00 | 75.66 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6,100.00 | 0.00 | 0.00 | 5,892.93 | 1,350.00 | -300.00 | 75.66 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6,200.00 | 0.00 | 0.00 | 5,992.93 | 1,350.00 | -300.00 | 75.66 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6,300.00 | 0.00 | 0.00 | 6,092.93 | 1,350.00 | -300.00 | 75.66 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6,400.00 | 0.00 | 0.00 | 6,192.93 | 1,350.00 | -300.00 | 75.66 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6,500.00 | 0.00 | 0.00 | 6,292.93 | 1,350.00 | -300.00 | 75.66 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6,600.00 | 0.00 | 0.00 | 6,392.93 | 1,350.00 | -300.00 | 75.66 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6,647.05 | 0.00 | 0.00 | 6,439.98 | 1,350.00 | -300.00 | 75.66 | 0.00 | 0.00 | 0.00 | 0.00 |
| KOP - Begin 8.0°/100ft Build at 6647.05ft | | | | | | | | | | |
| 6,700.00 | 4.24 | 91.02 | 6,492.88 | 1,349.97 | -298.04 | 77.54 | 8.00 | 8.00 | 0.00 | 91.02 |
| 6,800.00 | 12.24 | 91.02 | 6,591.77 | 1,349.71 | -283.73 | 91.25 | 8.00 | 8.00 | 0.00 | 0.00 |
| 6,900.00 | 20.24 | 91.02 | 6,687.70 | 1,349.21 | -255.80 | 118.01 | 8.00 | 8.00 | 0.00 | 0.00 |
| 7,000.00 | 28.24 | 91.02 | 6,778.81 | 1,348.49 | -214.79 | 157.30 | 8.00 | 8.00 | 0.00 | 0.00 |
| 7,100.00 | 36.24 | 91.02 | 6,863.33 | 1,347.54 | -161.50 | 208.35 | 8.00 | 8.00 | 0.00 | 0.00 |
| 7,200.00 | 44.24 | 91.02 | 6,939.61 | 1,346.39 | -96.97 | 270.17 | 8.00 | 8.00 | 0.00 | 0.00 |
| 7,300.00 | 52.24 | 91.02 | 7,006.16 | 1,345.07 | -22.46 | 341.56 | 8.00 | 8.00 | 0.00 | 0.00 |
| 7,400.00 | 60.24 | 91.02 | 7,061.69 | 1,343.59 | 60.60 | 421.13 | 8.00 | 8.00 | 0.00 | 0.00 |
| 7,500.00 | 68.24 | 91.02 | 7,105.12 | 1,341.99 | 150.57 | 507.33 | 8.00 | 8.00 | 0.00 | 0.00 |
| 7,600.00 | 76.24 | 91.02 | 7,135.61 | 1,340.30 | 245.71 | 598.48 | 8.00 | 8.00 | 0.00 | 0.00 |
| 7,700.00 | 84.24 | 91.02 | 7,152.56 | 1,338.55 | 344.16 | 692.81 | 8.00 | 8.00 | 0.00 | 0.00 |
| 7,787.86 | 91.26 | 91.02 | 7,156.00 | 1,337.00 | 431.89 | 776.85 | 8.00 | 8.00 | 0.00 | 0.00 |
| End of Build at 7787.86ft - 7" Csg | | | | | | | | | | |
| 7,800.00 | 91.26 | 91.02 | 7,155.73 | 1,336.78 | 444.02 | 788.48 | 0.00 | 0.00 | 0.00 | 0.00 |
| 7,900.00 | 91.26 | 91.02 | 7,153.53 | 1,335.00 | 543.98 | 884.25 | 0.00 | 0.00 | 0.00 | 0.00 |
| 8,000.00 | 91.26 | 91.02 | 7,151.32 | 1,333.23 | 643.94 | 980.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 8,100.00 | 91.26 | 91.02 | 7,149.12 | 1,331.45 | 743.90 | 1,075.78 | 0.00 | 0.00 | 0.00 | 0.00 |
| 8,200.00 | 91.26 | 91.02 | 7,146.91 | 1,329.67 | 843.86 | 1,171.55 | 0.00 | 0.00 | 0.00 | 0.00 |
| 8,300.00 | 91.26 | 91.02 | 7,144.70 | 1,327.90 | 943.82 | 1,267.32 | 0.00 | 0.00 | 0.00 | 0.00 |
| 8,400.00 | 91.26 | 91.02 | 7,142.50 | 1,326.12 | 1,043.78 | 1,363.08 | 0.00 | 0.00 | 0.00 | 0.00 |
| 8,500.00 | 91.26 | 91.02 | 7,140.29 | 1,324.35 | 1,143.74 | 1,458.85 | 0.00 | 0.00 | 0.00 | 0.00 |
| 8,600.00 | 91.26 | 91.02 | 7,138.08 | 1,322.57 | 1,243.70 | 1,554.62 | 0.00 | 0.00 | 0.00 | 0.00 |
| 8,700.00 | 91.26 | 91.02 | 7,135.88 | 1,320.79 | 1,343.66 | 1,650.39 | 0.00 | 0.00 | 0.00 | 0.00 |
| 8,800.00 | 91.26 | 91.02 | 7,133.67 | 1,319.02 | 1,443.62 | 1,746.15 | 0.00 | 0.00 | 0.00 | 0.00 |
| 8,900.00 | 91.26 | 91.02 | 7,131.46 | 1,317.24 | 1,543.58 | 1,841.92 | 0.00 | 0.00 | 0.00 | 0.00 |
| 9,000.00 | 91.26 | 91.02 | 7,129.26 | 1,315.47 | 1,643.54 | 1,937.69 | 0.00 | 0.00 | 0.00 | 0.00 |
| 9,100.00 | 91.26 | 91.02 | 7,127.05 | 1,313.69 | 1,743.50 | 2,033.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 9,200.00 | 91.26 | 91.02 | 7,124.84 | 1,311.91 | 1,843.46 | 2,129.22 | 0.00 | 0.00 | 0.00 | 0.00 |
| 9,300.00 | 91.26 | 91.02 | 7,122.64 | 1,310.14 | 1,943.42 | 2,224.99 | 0.00 | 0.00 | 0.00 | 0.00 |
| 9,400.00 | 91.26 | 91.02 | 7,120.43 | 1,308.36 | 2,043.38 | 2,320.76 | 0.00 | 0.00 | 0.00 | 0.00 |
| 9,500.00 | 91.26 | 91.02 | 7,118.23 | 1,306.58 | 2,143.34 | 2,416.52 | 0.00 | 0.00 | 0.00 | 0.00 |
| 9,600.00 | 91.26 | 91.02 | 7,116.02 | 1,304.81 | 2,243.30 | 2,512.29 | 0.00 | 0.00 | 0.00 | 0.00 |
| 9,700.00 | 91.26 | 91.02 | 7,113.81 | 1,303.03 | 2,343.26 | 2,608.06 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hold Angle at 91.26° | | | | | | | | | | |
| 9,800.00 | 91.26 | 91.02 | 7,111.61 | 1,301.26 | 2,443.22 | 2,703.83 | 0.00 | 0.00 | 0.00 | 0.00 |
| 9,900.00 | 91.26 | 91.02 | 7,109.40 | 1,299.48 | 2,543.18 | 2,799.59 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10,000.00 | 91.26 | 91.02 | 7,107.19 | 1,297.70 | 2,643.14 | 2,895.36 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10,100.00 | 91.26 | 91.02 | 7,104.99 | 1,295.93 | 2,743.10 | 2,991.13 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10,200.00 | 91.26 | 91.02 | 7,102.78 | 1,294.15 | 2,843.06 | 3,086.90 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10,300.00 | 91.26 | 91.02 | 7,100.57 | 1,292.37 | 2,943.02 | 3,182.66 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10,400.00 | 91.26 | 91.02 | 7,098.37 | 1,290.60 | 3,042.98 | 3,278.43 | 0.00 | 0.00 | 0.00 | 0.00 |

Plan Report for Deering 33-1H - Rev A0 (Permitting Plan Only)

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) | Toolface Azimuth (°) |
|----------------------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|----------------------|
| 10,500.00 | 91.26 | 91.02 | 7,096.16 | 1,288.82 | 3,142.94 | 3,374.20 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10,600.00 | 91.26 | 91.02 | 7,093.95 | 1,287.05 | 3,242.90 | 3,469.97 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10,700.00 | 91.26 | 91.02 | 7,091.75 | 1,285.27 | 3,342.86 | 3,565.73 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10,800.00 | 91.26 | 91.02 | 7,089.54 | 1,283.49 | 3,442.82 | 3,661.50 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10,900.00 | 91.26 | 91.02 | 7,087.33 | 1,281.72 | 3,542.78 | 3,757.27 | 0.00 | 0.00 | 0.00 | 0.00 |
| 11,000.00 | 91.26 | 91.02 | 7,085.13 | 1,279.94 | 3,642.74 | 3,853.04 | 0.00 | 0.00 | 0.00 | 0.00 |
| 11,100.00 | 91.26 | 91.02 | 7,082.92 | 1,278.17 | 3,742.70 | 3,948.80 | 0.00 | 0.00 | 0.00 | 0.00 |
| 11,200.00 | 91.26 | 91.02 | 7,080.72 | 1,276.39 | 3,842.66 | 4,044.57 | 0.00 | 0.00 | 0.00 | 0.00 |
| 11,300.00 | 91.26 | 91.02 | 7,078.51 | 1,274.61 | 3,942.62 | 4,140.34 | 0.00 | 0.00 | 0.00 | 0.00 |
| 11,400.00 | 91.26 | 91.02 | 7,076.30 | 1,272.84 | 4,042.58 | 4,236.11 | 0.00 | 0.00 | 0.00 | 0.00 |
| 11,500.00 | 91.26 | 91.02 | 7,074.10 | 1,271.06 | 4,142.54 | 4,331.87 | 0.00 | 0.00 | 0.00 | 0.00 |
| 11,600.00 | 91.26 | 91.02 | 7,071.89 | 1,269.28 | 4,242.50 | 4,427.64 | 0.00 | 0.00 | 0.00 | 0.00 |
| 11,700.00 | 91.26 | 91.02 | 7,069.68 | 1,267.51 | 4,342.46 | 4,523.41 | 0.00 | 0.00 | 0.00 | 0.00 |
| 11,800.00 | 91.26 | 91.02 | 7,067.48 | 1,265.73 | 4,442.42 | 4,619.17 | 0.00 | 0.00 | 0.00 | 0.00 |
| 11,866.91 | 91.26 | 91.02 | 7,066.00 | 1,264.54 | 4,509.30 | 4,683.25 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total Depth at 11866.91ft | | | | | | | | | | |

Plan Annotations

| Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates | | Comment |
|---------------------|---------------------|-------------------|------------|---------------------------------------------------------|
| | | +N/-S (ft) | +E/-W (ft) | |
| 500.00 | 500.00 | 0.00 | 0.00 | Begin 2.5°/100ft Nudge to 18.0° Inclination at 500.00ft |
| 1,220.00 | 1,208.21 | 109.50 | -24.33 | Begin 3749.2775.00ft Tangent at 1220.00ft |
| 4,969.27 | 4,773.98 | 1,240.50 | -275.67 | Begin 2.5°/100ft Drop to Vertical at 4969.27ft |
| 5,689.27 | 5,482.20 | 1,350.00 | -300.00 | End of Drop at 5689.27ft |
| 6,647.05 | 6,439.98 | 1,350.00 | -300.00 | KOP - Begin 8.0°/100ft Build at 6647.05ft |
| 7,787.86 | 7,156.00 | 1,337.00 | 431.89 | End of Build at 7787.86ft |
| 9,700.00 | 7,113.81 | 1,303.03 | 2,343.26 | Hold Angle at 91.26° |
| 11,866.91 | 7,066.00 | 1,264.54 | 4,509.30 | Total Depth at 11866.91ft |

Vertical Section Information

| Angle Type | Target | Azimuth (°) | Origin Type | Origin | | Start TVD (ft) |
|------------|-----------------------------|-------------|-------------|------------|------------|----------------|
| | | | | +N/-S (ft) | +E/-W (ft) | |
| Target | Deering 33-1H_RevA0_BHL Tgt | 74.33 | Slot | 0.00 | 0.00 | 0.00 |

Survey tool program

| From (ft) | To (ft) | Survey/Plan | Survey Tool |
|-----------|-----------|-------------------------------|-------------|
| 0.00 | 7,787.86 | Rev A0 (Permitting Plan Only) | MWD |
| 7,787.86 | 12,016.91 | Rev A0 (Permitting Plan Only) | MWD |

Casing Details

| Measured Depth (ft) | Vertical Depth (ft) | Name | Casing Diameter (") | Hole Diameter (") |
|---------------------|---------------------|--------|---------------------|-------------------|
| 7,787.86 | 7,156.00 | 7" Csg | 7 | 8-3/4 |

Plan Report for Deering 33-1H - Rev A0 (Permitting Plan Only)

Plan Report for Deering 33-1H - Rev A0 (Permitting Plan Only)***Targets associated with this wellbore***

| Target Name | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Shape |
|-------------------------------------------|-------------|---------------|---------------|---------|
| Deering_Camenisch 32-9 | 0.00 | -1,071.03 | -1,021.39 | Circle |
| Stroh_Sunmarke 19-28-11_BHL | -84.00 | 4,298.02 | 1,628.27 | Circle |
| Stroh_Stroh 28-10 | -31.00 | 4,273.46 | 2,971.42 | Circle |
| Stroh_Stroh 23-28 | -31.00 | 3,493.79 | 2,466.50 | Circle |
| Stroh_Spaur 1 | -31.00 | 4,278.80 | 1,608.48 | Circle |
| Deering_Anderson 12-32 | 0.00 | -950.39 | -4,649.24 | Circle |
| Deering_Anderson 1 | 0.00 | -932.39 | -3,334.84 | Circle |
| Stroh_Frank 1 (B) | -31.00 | 1,091.46 | 4,271.03 | Circle |
| Deering_Hepp 32-5 | 0.00 | 517.77 | -4,749.42 | Circle |
| Deering_Stroh 7-33 | 0.00 | 287.98 | 3,002.60 | Circle |
| Stroh_Koester 18-33-6_BHL | -33.00 | 317.47 | 1,645.40 | Circle |
| Stroh_Stroh 33-2 | -31.00 | 1,624.97 | 2,980.11 | Circle |
| Stroh_Koester 3-33-3_BHL | -64.00 | 1,603.20 | 1,683.44 | Circle |
| Stroh_Sunmarke 15-28 | -31.00 | 3,242.32 | 1,021.21 | Circle |
| Deering_Stroh 33-4 | 0.00 | 284.53 | 4,311.35 | Circle |
| Stroh_Stroh 28-16 | -31.00 | 2,918.64 | 5,320.96 | Circle |
| Stroh_Stroh 2 | -31.00 | 3,315.38 | 3,303.57 | Circle |
| Deering_Camenisch 32-10 | 0.00 | -775.86 | -2,277.16 | Circle |
| Stroh_Sunmarke 19-28-14_BHL | -84.00 | 2,968.88 | 1,620.01 | Circle |
| Stroh_Koester 18-33 | -31.00 | 670.32 | 563.68 | Circle |
| Stroh_Stroh 39-28R | -31.00 | 3,410.34 | 4,748.87 | Circle |
| Stroh 28-1H_Sec. 33 Lines | -31.00 | 2,554.23 | 4,768.56 | Polygon |
| Deering 33-1H_Sec. 32 S Half 460' Setback | 0.00 | 0.00 | 0.00 | Polygon |
| Stroh_Sunmarke 19-28-12_BHL | -84.00 | 4,279.36 | 305.95 | Circle |
| Deering_Hepp 22-32R | 0.00 | -6.95 | -4,107.69 | Circle |
| Deering 33-1H_Sec. 32 N Half 460' Setback | 0.00 | 0.00 | 0.00 | Polygon |
| Stroh_Stroh 38-28R | -31.00 | 2,408.50 | 4,754.64 | Circle |
| Stroh_Koester 3-33-21_BHL | -63.00 | 991.39 | 2,147.99 | Circle |
| Stroh_Stroh 33-1 | -31.00 | 1,621.50 | 4,171.60 | Circle |
| Deering 33-1H_Sec. 32 N Half Lines | 0.00 | 0.00 | 0.00 | Polygon |
| Deering_Camenisch 9-32-40R | 0.00 | -1,038.24 | -996.27 | Circle |
| Stroh_Frank 1 | -31.00 | 1,936.33 | 1,642.11 | Circle |
| Stroh_Stroh 28-33R | -31.00 | 2,134.94 | 2,466.64 | Circle |
| Stroh_Sunmarke 19-28-13_BHL | -84.00 | 2,970.78 | 269.98 | Circle |
| Stroh_Koester 18-33-4_BHL | -31.00 | 1,679.95 | 347.46 | Circle |
| Stroh 28-1H_Sec. 33 460' Setback | -31.00 | 2,554.23 | 4,768.56 | Polygon |
| Stroh_Stroh 1 | -31.00 | 597.68 | 3,298.35 | Circle |
| Deering_Camenisch 7-32-25R | 0.00 | 189.55 | -2,408.23 | Circle |
| Stroh_Koester 18-33-5_BHL | -30.00 | 254.58 | 231.53 | Circle |
| Deering 33-1H_Sec. 32 S Half Lines | 0.00 | 0.00 | 0.00 | Polygon |
| Stroh_Stroh 15-28 | -31.00 | 2,914.60 | 2,943.69 | Circle |
| Stroh_Koester 18-33-22_BHL | -31.00 | -130.41 | 995.48 | Circle |
| Deering 33-1H_RevA0_BHL Tgt | 7,066.00 | 1,264.54 | 4,509.30 | Point |
| Stroh_Stroh 41-33R | -31.00 | 776.42 | 4,766.11 | Circle |
| Stroh_Koester 3-33-29_BHL | -65.00 | 2,134.67 | 983.27 | Circle |
| Deering_Hepp 32-6 | 0.00 | 459.27 | -3,502.08 | Circle |
| Deering_Camenisch 41-32 | 0.00 | 225.98 | -2,369.16 | Circle |
| Stroh_Stroh 28-9 | -31.00 | 4,233.58 | 4,288.34 | Circle |

North Reference Sheet for Sec. 33-T4N-R67W (Deering 33H Pad) - Deering 33-1H - Plan A

All data is in US Feet unless otherwise stated. Directions and Coordinates are relative to True North Reference.

Vertical Depths are relative to GL @ 4905.00ft (Ground Level). Northing and Easting are relative to Deering 33-1H - Slot A1

Coordinate System is US State Plane 1983, Colorado Northern Zone using datum North American Datum 1983, ellipsoid GRS 1980

Projection method is Lambert Conformal Conic (2 parallel)

Central Meridian is -105.50°, Longitude Origin:0° 0' 0.000 E°, Latitude Origin:40° 47' 0.000 N°

False Easting: 3,000,000.00ft, False Northing: 1,000,000.00ft, Scale Reduction: 0.99995690

Grid Coordinates of Well: 1,341,870.86 ft N, 3,166,344.76 ft E

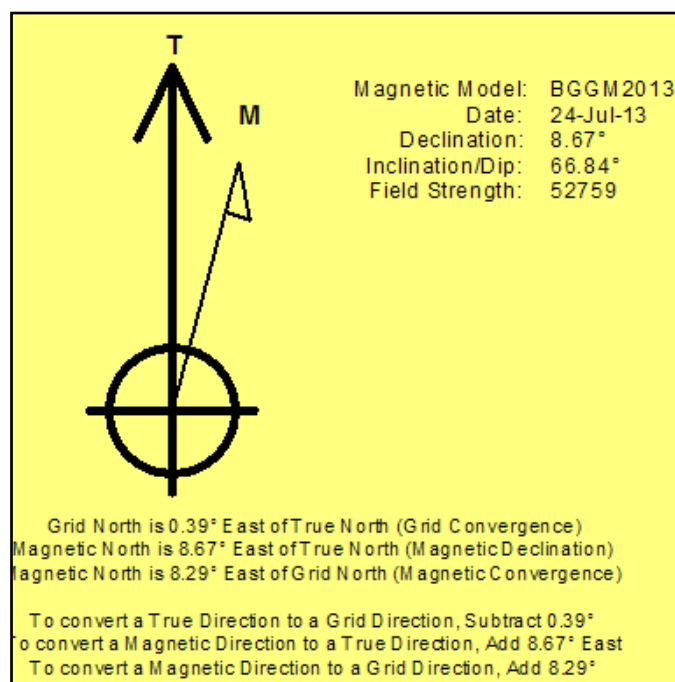
Geographical Coordinates of Well: 40° 16' 13.08" N, 104° 54' 13.93" W

Grid Convergence at Surface is: 0.39°

Based upon Minimum Curvature type calculations, at a Measured Depth of 12,016.91ft

the Bottom Hole Displacement is 4,827.10ft in the Direction of 74.85° (True).

Magnetic Convergence at surface is: -8.29° (24 July 2013, , BGGM2013)



K.P. Kauffman Company, Inc.

Weld County, CO (NAD 83)

Sec. 33-T4N-R67W (Deering 33H Pad)

Deering 33-1H

Plan A

Rev A0 (Permitting Plan Only)

Sperry Drilling Services **Ellipse Separation** **Anticollision Report**

25 July, 2013

Closest Approach 3D Proximity Scan on Current Survey Data (North Reference)

Reference Design: Sec. 33-T4N-R67W (Deering 33H Pad) - Deering 33-1H - Plan A - Rev A0 (Permitting Plan Only)

Well Coordinates: 1,341,870.86 N, 3,166,344.76 E (40° 16' 13.08" N, 104° 54' 13.93" W)

Datum Height: GL @ 4905.00ft (Ground Level)

Scan Range: 0.00 to 12,017.51 ft. Measured Depth.

Scan Radius is 9,999.99 ft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

Geodetic Scale Factor Applied

Version: 2003.16 Build: 43I

HALLIBURTON

Anticollision Report for Deering 33-1H - Rev A0 (Permitting Plan Only)

Closest Approach 3D Proximity Scan on Current Survey Data (North Reference)

Offset Design: Sec. 33-T4N-R67W (Deering 33H Pad) - Deering 33-4H - Plan A - Rev A0 (Permitting Plan Only)

Scan Range: 0.00 to 12,017.51 ft. Measured Depth.

Scan Radius is 9,999.99 ft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

| Uncertainty Data for Reference Well | | | | | Uncertainty Data for Comparison Well | | | | | Separation (Ref. > Comp.) | | | |
|-------------------------------------|---------------------|---------------------------|------------|----------------------|--------------------------------------|---------------------|---------------------------|------------|----------------------|---------------------------|-----------------------|------------------------|------------------|
| Measured Depth (ft) | Vertical Depth (ft) | Ellipse Centre +N/-S (ft) | +E/-W (ft) | Ellipse Major Axis/2 | Measured Depth (ft) | Vertical Depth (ft) | Ellipse Centre +N/-S (ft) | +E/-W (ft) | Ellipse Major Axis/2 | Between Centres (ft) | Between Ellipsoids ft | Relative North Bearing | Clearance Factor |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.00 | -58.29 | 0.00 | 0.00 | 58.30 | 57.64 | 180.00 | 88.810 |
| 200.00 | 200.00 | 0.00 | 0.00 | 0.34 | 199.00 | 200.00 | -58.29 | 0.00 | 0.33 | 58.29 | 56.96 | 180.00 | 43.883 |
| 400.00 | 400.00 | 0.00 | 0.00 | 0.79 | 399.00 | 400.00 | -58.29 | 0.00 | 0.78 | 58.29 | 56.06 | 180.00 | 26.170 |
| 461.25 | 461.25 | 0.40 | -0.09 | 0.92 | 460.25 | 461.25 | -58.29 | 0.00 | 0.92 | 58.69 | 56.19 | 179.92 | 23.440 |
| 600.00 | 599.97 | 2.13 | -0.47 | 1.24 | 598.97 | 599.97 | -58.29 | 0.00 | 1.23 | 60.42 | 57.29 | 179.56 | 19.304 |
| 800.00 | 799.14 | 19.14 | -4.25 | 1.72 | 798.14 | 799.14 | -58.29 | 0.00 | 1.68 | 77.55 | 73.51 | 176.86 | 19.202 |
| 1,000.00 | 996.04 | 53.03 | -11.78 | 2.33 | 995.04 | 996.04 | -58.29 | 0.00 | 2.12 | 111.94 | 107.01 | 173.96 | 22.671 |
| 1,200.00 | 1,189.17 | 103.55 | -23.01 | 3.21 | 1,201.14 | 1,201.88 | -50.53 | -4.19 | 2.59 | 155.74 | 149.91 | 173.04 | 26.718 |
| 1,400.00 | 1,379.40 | 163.80 | -36.40 | 4.30 | 1,411.62 | 1,410.42 | -25.87 | -17.50 | 3.12 | 193.12 | 186.28 | 174.31 | 28.232 |
| 1,600.00 | 1,569.62 | 224.13 | -49.81 | 5.46 | 1,609.27 | 1,605.06 | 4.33 | -33.79 | 3.71 | 223.21 | 215.28 | 175.83 | 28.145 |
| 1,800.00 | 1,759.83 | 284.46 | -63.21 | 6.65 | 1,806.92 | 1,799.71 | 34.54 | -50.09 | 4.37 | 253.43 | 244.35 | 176.99 | 27.932 |
| 2,000.00 | 1,950.04 | 344.79 | -76.62 | 7.85 | 2,004.57 | 1,994.35 | 64.74 | -66.39 | 5.06 | 283.72 | 273.47 | 177.91 | 27.679 |
| 2,200.00 | 2,140.25 | 405.12 | -90.03 | 9.07 | 2,202.21 | 2,189.00 | 94.95 | -82.69 | 5.77 | 314.07 | 302.62 | 178.64 | 27.422 |
| 2,400.00 | 2,330.46 | 465.46 | -103.43 | 10.29 | 2,399.86 | 2,383.64 | 125.15 | -98.98 | 6.50 | 344.46 | 331.79 | 179.25 | 27.176 |
| 2,600.00 | 2,520.67 | 525.79 | -116.84 | 11.51 | 2,597.51 | 2,578.29 | 155.36 | -115.28 | 7.23 | 374.89 | 360.98 | 179.76 | 26.947 |
| 2,800.00 | 2,710.88 | 586.12 | -130.25 | 12.74 | 2,795.15 | 2,772.93 | 185.56 | -131.58 | 7.98 | 405.34 | 390.18 | 180.19 | 26.737 |
| 3,000.00 | 2,901.10 | 646.45 | -143.66 | 13.97 | 2,992.80 | 2,967.58 | 215.77 | -147.88 | 8.73 | 435.81 | 419.39 | 180.56 | 26.545 |
| 3,200.00 | 3,091.31 | 706.78 | -157.06 | 15.20 | 3,190.45 | 3,162.22 | 245.97 | -164.18 | 9.49 | 466.29 | 448.61 | 180.88 | 26.369 |
| 3,400.00 | 3,281.52 | 767.12 | -170.47 | 16.44 | 3,388.10 | 3,356.86 | 276.18 | -180.47 | 10.24 | 496.79 | 477.83 | 181.17 | 26.210 |
| 3,600.00 | 3,471.73 | 827.45 | -183.88 | 17.67 | 3,585.74 | 3,551.51 | 306.38 | -196.77 | 11.01 | 527.29 | 507.06 | 181.42 | 26.065 |
| 3,800.00 | 3,661.94 | 887.78 | -197.28 | 18.91 | 3,783.39 | 3,746.15 | 336.59 | -213.07 | 11.77 | 557.81 | 536.30 | 181.64 | 25.932 |
| 4,000.00 | 3,852.15 | 948.11 | -210.69 | 20.14 | 3,981.04 | 3,940.80 | 366.79 | -229.37 | 12.54 | 588.33 | 565.54 | 181.84 | 25.810 |
| 4,200.00 | 4,042.36 | 1,008.44 | -224.10 | 21.38 | 4,178.68 | 4,135.44 | 397.00 | -245.66 | 13.30 | 618.86 | 594.78 | 182.02 | 25.698 |
| 4,400.00 | 4,232.57 | 1,068.77 | -237.51 | 22.62 | 4,376.33 | 4,330.09 | 427.20 | -261.96 | 14.07 | 649.40 | 624.03 | 182.18 | 25.596 |
| 4,600.00 | 4,422.79 | 1,129.11 | -250.91 | 23.85 | 4,573.98 | 4,524.73 | 457.41 | -278.26 | 14.84 | 679.94 | 653.28 | 182.33 | 25.501 |
| 4,800.00 | 4,613.00 | 1,189.44 | -264.32 | 25.09 | 4,743.19 | 4,691.76 | 481.14 | -291.06 | 15.40 | 713.17 | 685.38 | 182.16 | 25.668 |
| 5,000.00 | 4,803.27 | 1,249.58 | -277.68 | 26.31 | 4,900.00 | 4,847.85 | 494.10 | -298.06 | 15.76 | 757.07 | 728.37 | 181.54 | 26.381 |
| 5,200.00 | 4,996.63 | 1,299.21 | -288.71 | 27.13 | 5,048.87 | 4,996.63 | 497.71 | -300.00 | 15.99 | 801.58 | 772.19 | 180.81 | 27.275 |
| 5,400.00 | 5,193.69 | 1,332.20 | -296.04 | 27.74 | 5,245.93 | 5,193.69 | 497.71 | -300.00 | 16.28 | 834.50 | 804.55 | 180.27 | 27.857 |
| 5,600.00 | 5,392.95 | 1,348.30 | -299.62 | 28.12 | 5,445.19 | 5,392.95 | 497.71 | -300.00 | 16.58 | 850.59 | 820.23 | 180.03 | 28.018 |
| 5,800.00 | 5,592.93 | 1,350.00 | -300.00 | 28.31 | 5,645.16 | 5,592.93 | 497.71 | -300.00 | 16.90 | 852.29 | 807.69 | 180.00 | 19.109 |
| 6,000.00 | 5,792.93 | 1,350.00 | -300.00 | 28.49 | 5,845.16 | 5,792.93 | 497.71 | -300.00 | 17.22 | 852.29 | 807.17 | 180.00 | 18.889 |
| 6,200.00 | 5,992.93 | 1,350.00 | -300.00 | 28.68 | 6,045.16 | 5,992.93 | 497.71 | -300.00 | 17.55 | 852.29 | 806.64 | 180.00 | 18.670 |
| 6,400.00 | 6,192.93 | 1,350.00 | -300.00 | 28.88 | 6,245.16 | 6,192.93 | 497.71 | -300.00 | 17.88 | 852.29 | 806.10 | 180.00 | 18.452 |
| 6,600.00 | 6,392.93 | 1,350.00 | -300.00 | 29.08 | 6,445.16 | 6,392.93 | 497.71 | -300.00 | 18.21 | 852.29 | 805.55 | 180.00 | 18.235 |
| 6,800.00 | 6,591.77 | 1,349.71 | -283.73 | 29.22 | 6,644.18 | 6,591.92 | 497.69 | -298.82 | 18.54 | 852.15 | 817.55 | 181.01 | 24.629 |
| 6,808.09 | 6,599.66 | 1,349.68 | -281.97 | 29.22 | 6,652.21 | 6,599.94 | 497.69 | -298.32 | 18.55 | 852.15 | 817.52 | 181.10 | 24.606 |
| 7,000.00 | 6,778.81 | 1,348.49 | -214.79 | 29.22 | 6,846.99 | 6,790.06 | 497.11 | -258.86 | 18.68 | 852.59 | 817.38 | 182.96 | 24.214 |
| 7,200.00 | 6,939.61 | 1,346.39 | -96.97 | 29.15 | 7,059.26 | 6,976.79 | 495.67 | -159.56 | 18.63 | 853.83 | 818.15 | 184.21 | 23.931 |
| 7,400.00 | 7,061.69 | 1,343.59 | 60.60 | 29.09 | 7,281.07 | 7,131.99 | 493.40 | -2.35 | 18.51 | 855.42 | 818.44 | 184.23 | 23.133 |
| 7,600.00 | 7,135.61 | 1,340.30 | 245.71 | 29.20 | 7,511.12 | 7,234.40 | 490.43 | 202.52 | 18.98 | 856.69 | 816.26 | 182.91 | 21.192 |
| 7,800.00 | 7,155.73 | 1,336.78 | 444.02 | 30.20 | 7,743.63 | 7,267.00 | 487.11 | 431.71 | 22.15 | 857.01 | 810.84 | 180.83 | 18.563 |
| 8,000.00 | 7,151.32 | 1,333.23 | 643.94 | 31.05 | 7,943.58 | 7,267.00 | 484.21 | 631.64 | 24.04 | 856.95 | 807.77 | 180.83 | 17.425 |
| 8,200.00 | 7,146.91 | 1,329.67 | 843.86 | 32.42 | 8,143.53 | 7,267.00 | 481.32 | 831.57 | 26.38 | 856.90 | 803.22 | 180.83 | 15.963 |
| 8,400.00 | 7,142.50 | 1,326.12 | 1,043.78 | 34.44 | 8,343.48 | 7,267.00 | 478.42 | 1,031.50 | 29.39 | 856.88 | 797.29 | 180.83 | 14.378 |
| 8,467.92 | 7,141.00 | 1,324.92 | 1,111.67 | 35.30 | 8,411.39 | 7,267.00 | 477.44 | 1,099.40 | 30.53 | 856.88 | 794.80 | 180.83 | 13.803 |
| 8,600.00 | 7,138.08 | 1,322.57 | 1,243.70 | 37.13 | 8,543.43 | 7,267.00 | 475.52 | 1,231.43 | 32.91 | 856.89 | 790.35 | 180.83 | 12.878 |
| 8,800.00 | 7,133.67 | 1,319.02 | 1,443.62 | 40.38 | 8,743.38 | 7,267.00 | 472.63 | 1,431.36 | 36.80 | 856.92 | 782.70 | 180.83 | 11.547 |
| 9,000.00 | 7,129.26 | 1,315.47 | 1,643.54 | 44.07 | 8,943.33 | 7,267.00 | 469.73 | 1,631.29 | 40.97 | 856.97 | 774.56 | 180.83 | 10.400 |
| 9,200.00 | 7,124.84 | 1,311.91 | 1,843.46 | 48.07 | 9,143.28 | 7,267.00 | 466.83 | 1,831.22 | 45.33 | 857.04 | 766.08 | 180.83 | 9.422 |

Anticollision Report for Deering 33-1H - Rev A0 (Permitting Plan Only)

Closest Approach 3D Proximity Scan on Current Survey Data (North Reference)

Offset Design: Sec. 33-T4N-R67W (Deering 33H Pad) - Deering 33-4H - Plan A - Rev A0 (Permitting Plan Only)

Scan Range: 0.00 to 12,017.51 ft. Measured Depth.

Scan Radius is 9,999.99 ft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

| Uncertainty Data for Reference Well | | | | | Uncertainty Data for Comparison Well | | | | | Separation (Ref. > Comp.) | | | |
|-------------------------------------|---------------------|---------------------------|---------------------------|----------------------|--------------------------------------|---------------------|---------------------------|---------------------------|----------------------|---------------------------|-----------------------|------------------------|------------------|
| Measured Depth (ft) | Vertical Depth (ft) | Ellipse Centre +N/-S (ft) | Ellipse Centre +E/-W (ft) | Ellipse Major Axis/2 | Measured Depth (ft) | Vertical Depth (ft) | Ellipse Centre +N/-S (ft) | Ellipse Centre +E/-W (ft) | Ellipse Major Axis/2 | Between Centres (ft) | Between Ellipsoids ft | Relative North Bearing | Clearance Factor |
| 9,400.00 | 7,120.43 | 1,308.36 | 2,043.38 | 52.30 | 9,343.23 | 7,267.00 | 463.94 | 2,031.15 | 49.84 | 857.14 | 757.34 | 180.83 | 8.589 |
| 9,600.00 | 7,116.02 | 1,304.81 | 2,243.30 | 56.69 | 9,543.18 | 7,267.00 | 461.04 | 2,231.08 | 54.46 | 857.26 | 748.43 | 180.83 | 7.878 |
| 9,800.00 | 7,111.61 | 1,301.26 | 2,443.22 | 61.22 | 9,743.14 | 7,267.00 | 458.14 | 2,431.01 | 59.16 | 857.40 | 739.40 | 180.83 | 7.266 |
| 10,000.00 | 7,107.19 | 1,297.70 | 2,643.14 | 65.84 | 9,943.09 | 7,267.00 | 455.25 | 2,630.93 | 63.93 | 857.56 | 730.29 | 180.83 | 6.738 |
| 10,200.00 | 7,102.78 | 1,294.15 | 2,843.06 | 70.53 | 10,143.04 | 7,267.00 | 452.35 | 2,830.86 | 68.75 | 857.75 | 721.11 | 180.83 | 6.277 |
| 10,400.00 | 7,098.37 | 1,290.60 | 3,042.98 | 75.29 | 10,342.99 | 7,267.00 | 449.46 | 3,030.79 | 73.62 | 857.97 | 711.90 | 180.83 | 5.874 |
| 10,600.00 | 7,093.95 | 1,287.05 | 3,242.90 | 80.10 | 10,542.94 | 7,267.00 | 446.56 | 3,230.72 | 78.51 | 858.20 | 702.66 | 180.83 | 5.518 |
| 10,800.00 | 7,089.54 | 1,283.49 | 3,442.82 | 84.94 | 10,755.04 | 7,267.00 | 445.03 | 3,442.82 | 83.74 | 857.04 | 691.72 | 180.00 | 5.184 |
| 11,000.00 | 7,085.13 | 1,279.94 | 3,642.74 | 89.82 | 10,954.96 | 7,267.00 | 445.03 | 3,642.74 | 88.68 | 854.49 | 679.68 | 180.00 | 4.888 |
| 11,200.00 | 7,080.72 | 1,276.39 | 3,842.66 | 94.73 | 11,154.88 | 7,267.00 | 445.03 | 3,842.66 | 93.65 | 851.98 | 667.66 | 180.00 | 4.622 |
| 11,400.00 | 7,076.30 | 1,272.84 | 4,042.58 | 99.66 | 11,354.80 | 7,267.00 | 445.03 | 4,042.58 | 98.63 | 849.49 | 655.67 | 180.00 | 4.383 |
| 11,556.41 | 7,072.85 | 1,270.06 | 4,198.93 | 103.53 | 11,500.00 | 7,267.00 | 444.86 | 4,187.78 | 102.26 | 847.80 | 646.80 | 180.77 | 4.218 |
| 11,600.00 | 7,071.89 | 1,269.28 | 4,242.50 | 104.61 | 11,535.68 | 7,267.00 | 444.26 | 4,223.45 | 103.15 | 847.99 | 645.10 | 181.32 | 4.180 |
| 11,800.00 | 7,067.48 | 1,265.73 | 4,442.42 | 109.58 | 11,711.68 | 7,267.00 | 436.31 | 4,399.27 | 107.55 | 854.17 | 642.23 | 182.98 | 4.030 |
| 12,000.00 | 7,063.06 | 1,262.18 | 4,642.34 | 114.56 | 11,911.52 | 7,267.00 | 425.93 | 4,598.83 | 112.57 | 861.86 | 640.28 | 182.98 | 3.890 |
| 12,017.51 | 7,062.68 | 1,261.87 | 4,659.84 | 114.99 | 11,929.01 | 7,267.00 | 425.02 | 4,616.30 | 113.00 | 862.53 | 640.12 | 182.98 | 3.878 |

Anticollision Report for Deering 33-1H - Rev A0 (Permitting Plan Only)

Closest Approach 3D Proximity Scan on Current Survey Data (North Reference)

Offset Design: Sec. 33-T4N-R67W (Deering 33H Pad) - Deering 33-8HX - Plan A - Rev A0 (Permitting Plan Only)

Scan Range: 0.00 to 12,017.51 ft. Measured Depth.

Scan Radius is 9,999.99 ft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

| Uncertainty Data for Reference Well | | | | | Uncertainty Data for Comparison Well | | | | | Separation (Ref. > Comp.) | | | |
|-------------------------------------|---------------------|---------------------------|---------------------------|----------------------|--------------------------------------|---------------------|---------------------------|---------------------------|----------------------|---------------------------|-----------------------|------------------------|------------------|
| Measured Depth (ft) | Vertical Depth (ft) | Ellipse Centre +N/-S (ft) | Ellipse Centre +E/-W (ft) | Ellipse Major Axis/2 | Measured Depth (ft) | Vertical Depth (ft) | Ellipse Centre +N/-S (ft) | Ellipse Centre +E/-W (ft) | Ellipse Major Axis/2 | Between Centres (ft) | Between Ellipsoids ft | Relative North Bearing | Clearance Factor |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.00 | -138.44 | 0.00 | 0.00 | 138.47 | 137.81 | 180.00 | 210.935 |
| 200.00 | 200.00 | 0.00 | 0.00 | 0.34 | 197.00 | 200.00 | -138.44 | 0.00 | 0.33 | 138.44 | 137.11 | 180.00 | 104.574 |
| 400.00 | 400.00 | 0.00 | 0.00 | 0.79 | 397.00 | 400.00 | -138.44 | 0.00 | 0.78 | 138.44 | 136.21 | 180.00 | 62.278 |
| 461.18 | 461.18 | 0.40 | -0.09 | 0.92 | 458.18 | 461.18 | -138.44 | 0.00 | 0.92 | 138.83 | 136.34 | 179.96 | 55.554 |
| 600.00 | 599.97 | 2.13 | -0.47 | 1.24 | 596.97 | 599.97 | -138.44 | 0.00 | 1.23 | 140.57 | 137.44 | 179.81 | 44.974 |
| 800.00 | 799.14 | 19.14 | -4.25 | 1.72 | 796.14 | 799.14 | -138.44 | 0.00 | 1.68 | 157.63 | 153.60 | 178.45 | 39.072 |
| 1,000.00 | 996.04 | 53.03 | -11.78 | 2.33 | 978.94 | 981.76 | -144.99 | -2.42 | 2.03 | 198.75 | 193.87 | 177.29 | 40.744 |
| 1,200.00 | 1,189.17 | 103.55 | -23.01 | 3.21 | 1,149.74 | 1,151.38 | -163.42 | -9.23 | 2.39 | 269.98 | 264.23 | 177.04 | 46.980 |
| 1,400.00 | 1,379.40 | 163.80 | -36.40 | 4.30 | 1,328.41 | 1,327.85 | -189.62 | -18.90 | 2.88 | 357.59 | 350.92 | 177.17 | 53.631 |
| 1,600.00 | 1,569.62 | 224.13 | -49.81 | 5.46 | 1,508.15 | 1,505.38 | -216.00 | -28.64 | 3.43 | 445.29 | 437.66 | 177.25 | 58.350 |
| 1,800.00 | 1,759.83 | 284.46 | -63.21 | 6.65 | 1,687.89 | 1,682.91 | -242.37 | -38.38 | 4.02 | 533.00 | 524.37 | 177.30 | 61.753 |
| 2,000.00 | 1,950.04 | 344.79 | -76.62 | 7.85 | 1,867.63 | 1,860.44 | -268.75 | -48.12 | 4.64 | 620.71 | 611.05 | 177.34 | 64.288 |
| 2,200.00 | 2,140.25 | 405.12 | -90.03 | 9.07 | 2,047.37 | 2,037.97 | -295.13 | -57.86 | 5.27 | 708.41 | 697.72 | 177.37 | 66.238 |
| 2,400.00 | 2,330.46 | 465.46 | -103.43 | 10.29 | 2,227.12 | 2,215.50 | -321.51 | -67.60 | 5.91 | 796.12 | 784.38 | 177.39 | 67.771 |
| 2,600.00 | 2,520.67 | 525.79 | -116.84 | 11.51 | 2,406.86 | 2,393.03 | -347.88 | -77.34 | 6.56 | 883.83 | 871.02 | 177.41 | 69.002 |
| 2,800.00 | 2,710.88 | 586.12 | -130.25 | 12.74 | 2,586.60 | 2,570.56 | -374.26 | -87.08 | 7.21 | 971.54 | 957.66 | 177.43 | 70.009 |
| 3,000.00 | 2,901.10 | 646.45 | -143.66 | 13.97 | 2,766.34 | 2,748.09 | -400.64 | -96.82 | 7.87 | 1,059.25 | 1,044.30 | 177.44 | 70.845 |
| 3,200.00 | 3,091.31 | 706.78 | -157.06 | 15.20 | 2,946.08 | 2,925.62 | -427.02 | -106.56 | 8.53 | 1,146.96 | 1,130.93 | 177.45 | 71.550 |
| 3,400.00 | 3,281.52 | 767.12 | -170.47 | 16.44 | 3,235.97 | 3,213.27 | -459.54 | -118.57 | 9.33 | 1,229.65 | 1,212.39 | 177.58 | 71.234 |
| 3,600.00 | 3,471.73 | 827.45 | -183.88 | 17.67 | 3,494.51 | 3,471.73 | -463.44 | -120.00 | 9.75 | 1,292.46 | 1,274.13 | 177.17 | 70.500 |
| 3,800.00 | 3,661.94 | 887.78 | -197.28 | 18.91 | 3,684.72 | 3,661.94 | -463.44 | -120.00 | 10.03 | 1,353.42 | 1,334.13 | 176.73 | 70.137 |
| 4,000.00 | 3,852.15 | 948.11 | -210.69 | 20.14 | 3,874.93 | 3,852.15 | -463.44 | -120.00 | 10.31 | 1,414.46 | 1,394.19 | 176.32 | 69.795 |
| 4,200.00 | 4,042.36 | 1,008.44 | -224.10 | 21.38 | 4,065.14 | 4,042.36 | -463.44 | -120.00 | 10.61 | 1,475.55 | 1,454.32 | 175.95 | 69.473 |
| 4,400.00 | 4,232.57 | 1,068.77 | -237.51 | 22.62 | 4,255.36 | 4,232.57 | -463.44 | -120.00 | 10.92 | 1,536.71 | 1,514.49 | 175.61 | 69.168 |
| 4,600.00 | 4,422.79 | 1,129.11 | -250.91 | 23.85 | 4,445.57 | 4,422.79 | -463.44 | -120.00 | 11.23 | 1,597.91 | 1,574.72 | 175.30 | 68.881 |
| 4,800.00 | 4,613.00 | 1,189.44 | -264.32 | 25.09 | 4,635.78 | 4,613.00 | -463.44 | -120.00 | 11.55 | 1,659.16 | 1,634.98 | 175.01 | 68.609 |
| 5,000.00 | 4,803.27 | 1,249.58 | -277.68 | 26.31 | 4,826.05 | 4,803.27 | -463.44 | -120.00 | 11.88 | 1,720.26 | 1,695.04 | 174.74 | 68.231 |
| 5,200.00 | 4,996.63 | 1,299.21 | -288.71 | 27.13 | 5,019.42 | 4,996.63 | -463.44 | -120.00 | 12.22 | 1,770.70 | 1,744.40 | 174.53 | 67.313 |
| 5,400.00 | 5,193.69 | 1,332.20 | -296.04 | 27.74 | 5,216.48 | 5,193.69 | -463.44 | -120.00 | 12.58 | 1,804.25 | 1,777.07 | 174.40 | 66.394 |
| 5,600.00 | 5,392.95 | 1,348.30 | -299.62 | 28.12 | 5,415.73 | 5,392.95 | -463.44 | -120.00 | 12.94 | 1,820.62 | 1,792.82 | 174.34 | 65.484 |
| 5,800.00 | 5,592.93 | 1,350.00 | -300.00 | 28.31 | 5,615.71 | 5,592.93 | -463.44 | -120.00 | 13.31 | 1,822.35 | 1,780.49 | 174.33 | 43.538 |
| 6,000.00 | 5,792.93 | 1,350.00 | -300.00 | 28.49 | 5,815.71 | 5,792.93 | -463.44 | -120.00 | 13.68 | 1,822.35 | 1,779.93 | 174.33 | 42.959 |
| 6,200.00 | 5,992.93 | 1,350.00 | -300.00 | 28.68 | 6,015.71 | 5,992.93 | -463.44 | -120.00 | 14.06 | 1,822.35 | 1,779.35 | 174.33 | 42.385 |
| 6,400.00 | 6,192.93 | 1,350.00 | -300.00 | 28.88 | 6,215.71 | 6,192.93 | -463.44 | -120.00 | 14.44 | 1,822.35 | 1,778.77 | 174.33 | 41.817 |
| 6,600.00 | 6,392.93 | 1,350.00 | -300.00 | 29.08 | 6,415.71 | 6,392.93 | -463.44 | -120.00 | 14.83 | 1,822.35 | 1,778.17 | 174.33 | 41.256 |
| 6,800.00 | 6,591.77 | 1,349.71 | -283.73 | 29.22 | 6,666.11 | 6,640.72 | -462.91 | -147.84 | 15.39 | 1,818.36 | 1,785.95 | 175.71 | 56.107 |
| 7,000.00 | 6,778.81 | 1,348.49 | -214.79 | 29.22 | 6,838.00 | 6,798.68 | -461.63 | -214.57 | 15.96 | 1,810.23 | 1,776.73 | 179.99 | 54.032 |
| 7,044.31 | 6,817.18 | 1,348.09 | -192.64 | 29.20 | 6,860.34 | 6,817.90 | -461.42 | -225.96 | 16.05 | 1,809.82 | 1,776.11 | 181.05 | 53.700 |
| 7,200.00 | 6,939.61 | 1,346.39 | -96.97 | 29.15 | 6,905.42 | 6,855.53 | -460.94 | -250.75 | 16.25 | 1,815.81 | 1,781.70 | 184.86 | 53.225 |
| 7,400.00 | 7,061.69 | 1,343.59 | 60.60 | 29.09 | 6,911.50 | 6,860.49 | -460.88 | -254.27 | 16.28 | 1,842.75 | 1,807.98 | 189.90 | 52.992 |
| 7,600.00 | 7,135.61 | 1,340.30 | 245.71 | 29.20 | 6,884.19 | 6,838.00 | -461.17 | -238.78 | 16.16 | 1,889.08 | 1,852.26 | 195.05 | 51.316 |
| 7,800.00 | 7,155.73 | 1,336.78 | 444.02 | 30.20 | 6,850.00 | 6,809.05 | -461.52 | -220.61 | 16.01 | 1,948.28 | 1,909.04 | 200.28 | 49.641 |
| 8,000.00 | 7,151.32 | 1,333.23 | 643.94 | 31.05 | 6,800.00 | 6,765.22 | -461.98 | -196.58 | 15.82 | 2,019.48 | 1,978.17 | 205.09 | 48.885 |
| 8,200.00 | 7,146.91 | 1,329.67 | 843.86 | 32.42 | 6,750.00 | 6,719.81 | -462.37 | -175.66 | 15.65 | 2,105.54 | 2,061.26 | 209.64 | 47.560 |
| 8,400.00 | 7,142.50 | 1,326.12 | 1,043.78 | 34.44 | 6,725.22 | 6,696.80 | -462.55 | -166.48 | 15.57 | 2,205.16 | 2,157.01 | 214.08 | 45.796 |
| 8,600.00 | 7,138.08 | 1,322.57 | 1,243.70 | 37.13 | 6,700.00 | 6,673.06 | -462.71 | -157.96 | 15.49 | 2,316.92 | 2,264.42 | 218.14 | 44.131 |
| 8,800.00 | 7,133.67 | 1,319.02 | 1,443.62 | 40.38 | 6,679.47 | 6,653.53 | -462.83 | -151.65 | 15.43 | 2,439.35 | 2,382.12 | 221.84 | 42.625 |
| 9,000.00 | 7,129.26 | 1,315.47 | 1,643.54 | 44.07 | 6,650.00 | 6,625.19 | -462.99 | -143.57 | 15.35 | 2,571.13 | 2,509.08 | 225.14 | 41.431 |
| 9,200.00 | 7,124.84 | 1,311.91 | 1,843.46 | 48.07 | 6,650.00 | 6,625.19 | -462.99 | -143.57 | 15.35 | 2,710.76 | 2,643.34 | 228.23 | 40.208 |
| 9,400.00 | 7,120.43 | 1,308.36 | 2,043.38 | 52.30 | 6,650.00 | 6,625.19 | -462.99 | -143.57 | 15.35 | 2,857.56 | 2,784.66 | 230.99 | 39.195 |
| 9,600.00 | 7,116.02 | 1,304.81 | 2,243.30 | 56.69 | 6,621.53 | 6,597.53 | -463.11 | -136.88 | 15.27 | 3,009.92 | 2,931.86 | 233.40 | 38.558 |
| 9,800.00 | 7,111.61 | 1,301.26 | 2,443.22 | 61.22 | 6,600.00 | 6,576.43 | -463.20 | -132.55 | 15.22 | 3,167.69 | 3,084.34 | 235.59 | 38.005 |

Anticollision Report for Deering 33-1H - Rev A0 (Permitting Plan Only)

Closest Approach 3D Proximity Scan on Current Survey Data (North Reference)

Offset Design: Sec. 33-T4N-R67W (Deering 33H Pad) - Deering 33-8HX - Plan A - Rev A0 (Permitting Plan Only)

Scan Range: 0.00 to 12,017.51 ft. Measured Depth.

Scan Radius is 9,999.99 ft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

| Uncertainty Data for Reference Well | | | | | Uncertainty Data for Comparison Well | | | | | Separation (Ref. > Comp.) | | | |
|-------------------------------------|---------------------|---------------------------|---------------------------|----------------------|--------------------------------------|---------------------|---------------------------|---------------------------|----------------------|---------------------------|-----------------------|------------------------|------------------|
| Measured Depth (ft) | Vertical Depth (ft) | Ellipse Centre +N/-S (ft) | Ellipse Centre +E/-W (ft) | Ellipse Major Axis/2 | Measured Depth (ft) | Vertical Depth (ft) | Ellipse Centre +N/-S (ft) | Ellipse Centre +E/-W (ft) | Ellipse Major Axis/2 | Between Centres (ft) | Between Ellipsoids ft | Relative North Bearing | Clearance Factor |
| 10,000.00 | 7,107.19 | 1,297.70 | 2,643.14 | 65.84 | 6,600.00 | 6,576.43 | -463.20 | -132.55 | 15.22 | 3,329.70 | 3,240.68 | 237.61 | 37.403 |
| 10,200.00 | 7,102.78 | 1,294.15 | 2,843.06 | 70.53 | 6,600.00 | 6,576.43 | -463.20 | -132.55 | 15.22 | 3,495.65 | 3,400.90 | 239.43 | 36.897 |
| 10,400.00 | 7,098.37 | 1,290.60 | 3,042.98 | 75.29 | 6,600.00 | 6,576.43 | -463.20 | -132.55 | 15.22 | 3,664.99 | 3,564.50 | 241.09 | 36.470 |
| 10,600.00 | 7,093.95 | 1,287.05 | 3,242.90 | 80.10 | 6,600.00 | 6,576.43 | -463.20 | -132.55 | 15.22 | 3,837.29 | 3,731.02 | 242.59 | 36.107 |
| 10,800.00 | 7,089.54 | 1,283.49 | 3,442.82 | 84.94 | 6,574.00 | 6,550.81 | -463.28 | -128.17 | 15.16 | 4,011.66 | 3,900.11 | 243.93 | 35.965 |
| 11,000.00 | 7,085.13 | 1,279.94 | 3,642.74 | 89.82 | 6,550.00 | 6,527.02 | -463.34 | -124.95 | 15.10 | 4,188.79 | 4,071.98 | 245.17 | 35.858 |
| 11,200.00 | 7,080.72 | 1,276.39 | 3,842.66 | 94.73 | 6,550.00 | 6,527.02 | -463.34 | -124.95 | 15.10 | 4,367.51 | 4,244.90 | 246.32 | 35.620 |
| 11,400.00 | 7,076.30 | 1,272.84 | 4,042.58 | 99.66 | 6,550.00 | 6,527.02 | -463.34 | -124.95 | 15.10 | 4,548.00 | 4,419.58 | 247.38 | 35.414 |
| 11,600.00 | 7,071.89 | 1,269.28 | 4,242.50 | 104.61 | 6,550.00 | 6,527.02 | -463.34 | -124.95 | 15.10 | 4,730.06 | 4,595.81 | 248.36 | 35.234 |
| 11,800.00 | 7,067.48 | 1,265.73 | 4,442.42 | 109.58 | 6,550.00 | 6,527.02 | -463.34 | -124.95 | 15.10 | 4,913.52 | 4,773.43 | 249.26 | 35.076 |
| 12,000.00 | 7,063.06 | 1,262.18 | 4,642.34 | 114.56 | 6,550.00 | 6,527.02 | -463.34 | -124.95 | 15.10 | 5,098.22 | 4,952.29 | 250.10 | 34.938 |
| 12,017.51 | 7,062.68 | 1,261.87 | 4,659.84 | 114.99 | 6,550.00 | 6,527.02 | -463.34 | -124.95 | 15.10 | 5,114.44 | 4,968.01 | 250.17 | 34.927 |

Anticollision Report for Deering 33-1H - Rev A0 (Permitting Plan Only)

Closest Approach 3D Proximity Scan on Current Survey Data (North Reference)

Offset Design: Sec. 33-T4N-R67W (Deering 33H Pad) - Deering 33-6HX - Plan A - Rev A0 (Permitting Plan Only)

Scan Range: 0.00 to 12,017.51 ft. Measured Depth.

Scan Radius is 9,999.99 ft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

| Uncertainty Data for Reference Well | | | | | Uncertainty Data for Comparison Well | | | | | Separation (Ref. > Comp.) | | | |
|-------------------------------------|---------------------|---------------------------|---------------------------|----------------------|--------------------------------------|---------------------|---------------------------|---------------------------|----------------------|---------------------------|-----------------------|------------------------|------------------|
| Measured Depth (ft) | Vertical Depth (ft) | Ellipse Centre +N/-S (ft) | Ellipse Centre +E/-W (ft) | Ellipse Major Axis/2 | Measured Depth (ft) | Vertical Depth (ft) | Ellipse Centre +N/-S (ft) | Ellipse Centre +E/-W (ft) | Ellipse Major Axis/2 | Between Centres (ft) | Between Ellipsoids ft | Relative North Bearing | Clearance Factor |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.00 | -98.36 | 0.00 | 0.00 | 98.38 | 97.73 | 180.00 | 149.872 |
| 200.00 | 200.00 | 0.00 | 0.00 | 0.34 | 198.00 | 200.00 | -98.36 | 0.00 | 0.33 | 98.36 | 97.04 | 180.00 | 74.177 |
| 400.00 | 400.00 | 0.00 | 0.00 | 0.79 | 398.00 | 400.00 | -98.36 | 0.00 | 0.78 | 98.36 | 96.14 | 180.00 | 44.206 |
| 461.20 | 461.20 | 0.40 | -0.09 | 0.92 | 459.20 | 461.20 | -98.36 | 0.00 | 0.92 | 98.76 | 96.26 | 179.95 | 39.482 |
| 600.00 | 599.97 | 2.13 | -0.47 | 1.24 | 597.97 | 599.97 | -98.36 | 0.00 | 1.23 | 100.49 | 97.37 | 179.73 | 32.130 |
| 800.00 | 799.14 | 19.14 | -4.25 | 1.72 | 797.14 | 799.14 | -98.36 | 0.00 | 1.68 | 117.58 | 113.54 | 177.93 | 29.129 |
| 1,000.00 | 996.04 | 53.03 | -11.78 | 2.33 | 994.04 | 996.04 | -98.36 | 0.00 | 2.12 | 151.85 | 146.92 | 175.55 | 30.755 |
| 1,200.00 | 1,189.17 | 103.55 | -23.01 | 3.21 | 1,187.17 | 1,189.17 | -98.36 | 0.00 | 2.56 | 203.22 | 197.39 | 173.50 | 34.855 |
| 1,400.00 | 1,379.40 | 163.80 | -36.40 | 4.30 | 1,377.40 | 1,379.40 | -98.36 | 0.00 | 2.98 | 264.68 | 257.90 | 172.10 | 39.039 |
| 1,600.00 | 1,569.62 | 224.13 | -49.81 | 5.46 | 1,567.62 | 1,569.62 | -98.36 | 0.00 | 3.41 | 326.32 | 318.56 | 171.22 | 42.059 |
| 1,800.00 | 1,759.83 | 284.46 | -63.21 | 6.65 | 1,757.83 | 1,759.83 | -98.36 | 0.00 | 3.84 | 388.01 | 379.26 | 170.62 | 44.334 |
| 2,000.00 | 1,950.04 | 344.79 | -76.62 | 7.85 | 1,948.04 | 1,950.04 | -98.36 | 0.00 | 4.27 | 449.73 | 439.98 | 170.19 | 46.102 |
| 2,200.00 | 2,140.25 | 405.12 | -90.03 | 9.07 | 2,138.25 | 2,140.25 | -98.36 | 0.00 | 4.69 | 511.47 | 500.71 | 169.86 | 47.511 |
| 2,400.00 | 2,330.46 | 465.46 | -103.43 | 10.29 | 2,328.46 | 2,330.46 | -98.36 | 0.00 | 5.12 | 573.23 | 561.45 | 169.60 | 48.660 |
| 2,600.00 | 2,520.67 | 525.79 | -116.84 | 11.51 | 2,518.67 | 2,520.67 | -98.36 | 0.00 | 5.55 | 634.99 | 622.19 | 169.40 | 49.613 |
| 2,800.00 | 2,710.88 | 586.12 | -130.25 | 12.74 | 2,708.88 | 2,710.88 | -98.36 | 0.00 | 5.98 | 696.76 | 682.94 | 169.23 | 50.416 |
| 3,000.00 | 2,901.10 | 646.45 | -143.66 | 13.97 | 2,899.10 | 2,901.10 | -98.36 | 0.00 | 6.40 | 758.54 | 743.70 | 169.08 | 51.101 |
| 3,200.00 | 3,091.31 | 706.78 | -157.06 | 15.20 | 3,089.31 | 3,091.31 | -98.36 | 0.00 | 6.83 | 820.32 | 804.45 | 168.96 | 51.692 |
| 3,400.00 | 3,281.52 | 767.12 | -170.47 | 16.44 | 3,279.52 | 3,281.52 | -98.36 | 0.00 | 7.26 | 882.11 | 865.21 | 168.86 | 52.208 |
| 3,600.00 | 3,471.73 | 827.45 | -183.88 | 17.67 | 3,469.73 | 3,471.73 | -98.36 | 0.00 | 7.69 | 943.89 | 925.97 | 168.77 | 52.661 |
| 3,800.00 | 3,661.94 | 887.78 | -197.28 | 18.91 | 3,659.94 | 3,661.94 | -98.36 | 0.00 | 8.11 | 1,005.68 | 986.73 | 168.69 | 53.062 |
| 4,000.00 | 3,852.15 | 948.11 | -210.69 | 20.14 | 3,850.15 | 3,852.15 | -98.36 | 0.00 | 8.54 | 1,067.47 | 1,047.49 | 168.62 | 53.420 |
| 4,200.00 | 4,042.36 | 1,008.44 | -224.10 | 21.38 | 4,040.36 | 4,042.36 | -98.36 | 0.00 | 8.97 | 1,129.26 | 1,108.25 | 168.55 | 53.742 |
| 4,400.00 | 4,232.57 | 1,068.77 | -237.51 | 22.62 | 4,230.57 | 4,232.57 | -98.36 | 0.00 | 9.40 | 1,191.06 | 1,169.01 | 168.50 | 54.032 |
| 4,600.00 | 4,422.79 | 1,129.11 | -250.91 | 23.85 | 4,420.79 | 4,422.79 | -98.36 | 0.00 | 9.82 | 1,252.85 | 1,229.78 | 168.45 | 54.295 |
| 4,800.00 | 4,613.00 | 1,189.44 | -264.32 | 25.09 | 4,611.00 | 4,613.00 | -98.36 | 0.00 | 10.25 | 1,314.65 | 1,290.54 | 168.40 | 54.534 |
| 5,000.00 | 4,803.27 | 1,249.58 | -277.68 | 26.31 | 4,801.27 | 4,803.27 | -98.36 | 0.00 | 10.68 | 1,376.25 | 1,351.07 | 168.36 | 54.666 |
| 5,200.00 | 4,996.63 | 1,299.21 | -288.71 | 27.13 | 4,994.63 | 4,996.63 | -98.36 | 0.00 | 11.11 | 1,427.08 | 1,400.80 | 168.33 | 54.305 |
| 5,400.00 | 5,193.69 | 1,332.20 | -296.04 | 27.74 | 5,191.69 | 5,193.69 | -98.36 | 0.00 | 11.56 | 1,460.88 | 1,433.73 | 168.31 | 53.809 |
| 5,600.00 | 5,392.95 | 1,348.30 | -299.62 | 28.12 | 5,390.95 | 5,392.95 | -98.36 | 0.00 | 12.00 | 1,477.37 | 1,449.60 | 168.30 | 53.206 |
| 5,800.00 | 5,592.93 | 1,350.00 | -300.00 | 28.31 | 5,590.93 | 5,592.93 | -98.36 | 0.00 | 12.45 | 1,479.11 | 1,437.69 | 168.30 | 35.711 |
| 6,000.00 | 5,792.93 | 1,350.00 | -300.00 | 28.49 | 5,790.93 | 5,792.93 | -98.36 | 0.00 | 12.90 | 1,479.11 | 1,437.05 | 168.30 | 35.174 |
| 6,200.00 | 5,992.93 | 1,350.00 | -300.00 | 28.68 | 5,990.93 | 5,992.93 | -98.36 | 0.00 | 13.35 | 1,479.11 | 1,436.42 | 168.30 | 34.647 |
| 6,400.00 | 6,192.93 | 1,350.00 | -300.00 | 28.88 | 6,190.93 | 6,192.93 | -98.36 | 0.00 | 13.80 | 1,479.11 | 1,435.77 | 168.30 | 34.132 |
| 6,600.00 | 6,392.93 | 1,350.00 | -300.00 | 29.08 | 6,421.44 | 6,423.29 | -98.36 | -4.29 | 14.30 | 1,478.55 | 1,434.52 | 168.46 | 33.580 |
| 6,800.00 | 6,591.77 | 1,349.71 | -283.73 | 29.22 | 6,698.23 | 6,688.68 | -98.36 | -78.14 | 14.95 | 1,465.80 | 1,433.17 | 171.92 | 44.923 |
| 7,000.00 | 6,778.81 | 1,348.49 | -214.79 | 29.22 | 6,852.41 | 6,821.15 | -98.36 | -156.59 | 15.51 | 1,448.64 | 1,414.79 | 177.70 | 42.794 |
| 7,093.71 | 6,858.24 | 1,347.60 | -165.20 | 29.17 | 6,886.83 | 6,848.55 | -98.36 | -177.41 | 15.68 | 1,446.05 | 1,411.77 | 180.48 | 42.186 |
| 7,200.00 | 6,939.61 | 1,346.39 | -96.97 | 29.15 | 6,905.42 | 6,862.98 | -98.36 | -189.14 | 15.78 | 1,449.72 | 1,415.21 | 183.65 | 42.008 |
| 7,400.00 | 7,061.69 | 1,343.59 | 60.60 | 29.09 | 6,900.00 | 6,858.80 | -98.36 | -185.68 | 15.74 | 1,476.84 | 1,441.81 | 189.69 | 42.164 |
| 7,600.00 | 7,135.61 | 1,340.30 | 245.71 | 29.20 | 6,863.29 | 6,829.90 | -98.36 | -163.05 | 15.57 | 1,526.53 | 1,489.72 | 195.86 | 41.475 |
| 7,800.00 | 7,155.73 | 1,336.78 | 444.02 | 30.20 | 6,800.00 | 6,777.81 | -98.36 | -127.14 | 15.29 | 1,590.18 | 1,551.62 | 201.70 | 41.235 |
| 8,000.00 | 7,151.32 | 1,333.23 | 643.94 | 31.05 | 6,750.00 | 6,734.78 | -98.36 | -101.68 | 15.11 | 1,667.00 | 1,626.51 | 207.51 | 41.163 |
| 8,200.00 | 7,146.91 | 1,329.67 | 843.86 | 32.42 | 6,700.00 | 6,690.28 | -98.36 | -78.89 | 14.96 | 1,760.48 | 1,717.18 | 212.87 | 40.659 |
| 8,400.00 | 7,142.50 | 1,326.12 | 1,043.78 | 34.44 | 6,670.83 | 6,663.71 | -98.36 | -66.87 | 14.87 | 1,868.68 | 1,821.68 | 217.94 | 39.763 |
| 8,600.00 | 7,138.08 | 1,322.57 | 1,243.70 | 37.13 | 6,650.00 | 6,644.48 | -98.36 | -58.87 | 14.82 | 1,989.82 | 1,938.57 | 222.51 | 38.824 |
| 8,800.00 | 7,133.67 | 1,319.02 | 1,443.62 | 40.38 | 6,600.00 | 6,597.53 | -98.36 | -41.68 | 14.69 | 2,121.92 | 2,066.57 | 226.34 | 38.336 |
| 9,000.00 | 7,129.26 | 1,315.47 | 1,643.54 | 44.07 | 6,600.00 | 6,597.53 | -98.36 | -41.68 | 14.69 | 2,263.10 | 2,202.68 | 230.00 | 37.455 |
| 9,200.00 | 7,124.84 | 1,311.91 | 1,843.46 | 48.07 | 6,572.45 | 6,571.24 | -98.36 | -33.44 | 14.63 | 2,412.08 | 2,346.92 | 233.08 | 37.019 |
| 9,400.00 | 7,120.43 | 1,308.36 | 2,043.38 | 52.30 | 6,550.00 | 6,549.63 | -98.36 | -27.39 | 14.57 | 2,567.64 | 2,497.59 | 235.81 | 36.656 |
| 9,600.00 | 7,116.02 | 1,304.81 | 2,243.30 | 56.69 | 6,550.00 | 6,549.63 | -98.36 | -27.39 | 14.57 | 2,728.68 | 2,653.24 | 238.29 | 36.169 |
| 9,800.00 | 7,111.61 | 1,301.26 | 2,443.22 | 61.22 | 6,527.89 | 6,528.18 | -98.36 | -22.01 | 14.53 | 2,894.24 | 2,813.83 | 240.41 | 35.994 |

Anticollision Report for Deering 33-1H - Rev A0 (Permitting Plan Only)

Closest Approach 3D Proximity Scan on Current Survey Data (North Reference)

Offset Design: Sec. 33-T4N-R67W (Deering 33H Pad) - Deering 33-6HX - Plan A - Rev A0 (Permitting Plan Only)

Scan Range: 0.00 to 12,017.51 ft. Measured Depth.

Scan Radius is 9,999.99 ft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

| Uncertainty Data for Reference Well | | | | | Uncertainty Data for Comparison Well | | | | | Separation (Ref. > Comp.) | | | |
|-------------------------------------|---------------------|---------------------------|---------------------------|----------------------|--------------------------------------|---------------------|---------------------------|---------------------------|----------------------|---------------------------|-----------------------|------------------------|------------------|
| Measured Depth (ft) | Vertical Depth (ft) | Ellipse Centre +N/-S (ft) | Ellipse Centre +E/-W (ft) | Ellipse Major Axis/2 | Measured Depth (ft) | Vertical Depth (ft) | Ellipse Centre +N/-S (ft) | Ellipse Centre +E/-W (ft) | Ellipse Major Axis/2 | Between Centres (ft) | Between Ellipsoids ft | Relative North Bearing | Clearance Factor |
| 10,000.00 | 7,107.19 | 1,297.70 | 2,643.14 | 65.84 | 6,500.00 | 6,500.94 | -98.36 | -16.05 | 14.46 | 3,063.95 | 2,978.73 | 242.30 | 35.951 |
| 10,200.00 | 7,102.78 | 1,294.15 | 2,843.06 | 70.53 | 6,500.00 | 6,500.94 | -98.36 | -16.05 | 14.46 | 3,236.63 | 3,145.91 | 244.03 | 35.677 |
| 10,400.00 | 7,098.37 | 1,290.60 | 3,042.98 | 75.29 | 6,500.00 | 6,500.94 | -98.36 | -16.05 | 14.46 | 3,412.30 | 3,316.05 | 245.58 | 35.453 |
| 10,600.00 | 7,093.95 | 1,287.05 | 3,242.90 | 80.10 | 6,500.00 | 6,500.94 | -98.36 | -16.05 | 14.46 | 3,590.51 | 3,488.71 | 246.97 | 35.270 |
| 10,800.00 | 7,089.54 | 1,283.49 | 3,442.82 | 84.94 | 6,500.00 | 6,500.94 | -98.36 | -16.05 | 14.46 | 3,770.90 | 3,663.53 | 248.22 | 35.119 |
| 11,000.00 | 7,085.13 | 1,279.94 | 3,642.74 | 89.82 | 6,473.20 | 6,474.58 | -98.36 | -11.20 | 14.41 | 3,952.69 | 3,840.55 | 249.33 | 35.250 |
| 11,200.00 | 7,080.72 | 1,276.39 | 3,842.66 | 94.73 | 6,450.00 | 6,451.65 | -98.36 | -7.70 | 14.36 | 4,136.53 | 4,019.60 | 250.35 | 35.374 |
| 11,400.00 | 7,076.30 | 1,272.84 | 4,042.58 | 99.66 | 6,450.00 | 6,451.65 | -98.36 | -7.70 | 14.36 | 4,321.47 | 4,198.98 | 251.30 | 35.280 |
| 11,600.00 | 7,071.89 | 1,269.28 | 4,242.50 | 104.61 | 6,450.00 | 6,451.65 | -98.36 | -7.70 | 14.36 | 4,507.70 | 4,379.64 | 252.16 | 35.201 |
| 11,800.00 | 7,067.48 | 1,265.73 | 4,442.42 | 109.58 | 6,450.00 | 6,451.65 | -98.36 | -7.70 | 14.36 | 4,695.05 | 4,561.43 | 252.96 | 35.135 |
| 12,000.00 | 7,063.06 | 1,262.18 | 4,642.34 | 114.56 | 6,450.00 | 6,451.65 | -98.36 | -7.70 | 14.36 | 4,883.41 | 4,744.21 | 253.69 | 35.080 |
| 12,017.51 | 7,062.68 | 1,261.87 | 4,659.84 | 114.99 | 6,450.00 | 6,451.65 | -98.36 | -7.70 | 14.36 | 4,899.95 | 4,760.26 | 253.75 | 35.077 |

Anticollision Report for Deering 33-1H - Rev A0 (Permitting Plan Only)

Closest Approach 3D Proximity Scan on Current Survey Data (North Reference)

Offset Design: Sec. 33-T4N-R67W (Deering 33H Pad) - Deering 33-2H - Plan A - Rev A0 (Permitting Plan Only)

Scan Range: 0.00 to 12,017.51 ft. Measured Depth.

Scan Radius is 9,999.99 ft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

| Uncertainty Data for Reference Well | | | | | Uncertainty Data for Comparison Well | | | | | Separation (Ref. > Comp.) | | | |
|-------------------------------------|---------------------|---------------------------|---------------------------|----------------------|--------------------------------------|---------------------|---------------------------|---------------------------|----------------------|---------------------------|-----------------------|------------------------|------------------|
| Measured Depth (ft) | Vertical Depth (ft) | Ellipse Centre +N/-S (ft) | Ellipse Centre +E/-W (ft) | Ellipse Major Axis/2 | Measured Depth (ft) | Vertical Depth (ft) | Ellipse Centre +N/-S (ft) | Ellipse Centre +E/-W (ft) | Ellipse Major Axis/2 | Between Centres (ft) | Between Ellipsoids ft | Relative North Bearing | Clearance Factor |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.00 | -18.22 | 0.00 | 0.00 | 18.25 | 17.59 | 180.02 | 27.794 |
| 200.00 | 200.00 | 0.00 | 0.00 | 0.34 | 199.00 | 200.00 | -18.22 | 0.00 | 0.33 | 18.22 | 16.89 | 180.02 | 13.715 |
| 400.00 | 400.00 | 0.00 | 0.00 | 0.79 | 399.00 | 400.00 | -18.22 | 0.00 | 0.78 | 18.22 | 15.99 | 180.02 | 8.179 |
| 461.44 | 461.44 | 0.40 | -0.09 | 0.92 | 460.44 | 461.44 | -18.22 | 0.00 | 0.92 | 18.62 | 16.12 | 179.74 | 7.434 |
| 600.00 | 599.97 | 2.13 | -0.47 | 1.24 | 598.97 | 599.97 | -18.22 | 0.00 | 1.23 | 20.35 | 17.22 | 178.68 | 6.502 |
| 800.00 | 799.14 | 19.14 | -4.25 | 1.72 | 800.90 | 801.65 | -9.68 | -2.14 | 1.70 | 29.01 | 24.98 | 175.80 | 7.197 |
| 1,000.00 | 996.04 | 53.03 | -11.78 | 2.33 | 1,003.63 | 1,002.54 | 16.17 | -8.60 | 2.22 | 37.56 | 32.62 | 175.07 | 7.607 |
| 1,200.00 | 1,189.17 | 103.55 | -23.01 | 3.21 | 1,206.97 | 1,200.91 | 59.29 | -19.38 | 2.96 | 45.93 | 40.03 | 175.31 | 7.790 |
| 1,400.00 | 1,379.40 | 163.80 | -36.40 | 4.30 | 1,406.70 | 1,393.83 | 109.44 | -31.92 | 3.86 | 56.41 | 49.42 | 175.29 | 8.068 |
| 1,600.00 | 1,569.62 | 224.13 | -49.81 | 5.46 | 1,606.42 | 1,586.74 | 159.59 | -44.46 | 4.83 | 66.99 | 58.85 | 175.26 | 8.231 |
| 1,800.00 | 1,759.83 | 284.46 | -63.21 | 6.65 | 1,806.14 | 1,779.66 | 209.74 | -56.99 | 5.83 | 77.56 | 68.25 | 175.24 | 8.328 |
| 2,000.00 | 1,950.04 | 344.79 | -76.62 | 7.85 | 2,005.86 | 1,972.57 | 259.89 | -69.53 | 6.85 | 88.13 | 77.63 | 175.23 | 8.390 |
| 2,200.00 | 2,140.25 | 405.12 | -90.03 | 9.07 | 2,205.58 | 2,165.49 | 310.03 | -82.07 | 7.88 | 98.70 | 87.00 | 175.22 | 8.431 |
| 2,400.00 | 2,330.46 | 465.46 | -103.43 | 10.29 | 2,405.30 | 2,358.40 | 360.18 | -94.61 | 8.92 | 109.28 | 96.36 | 175.21 | 8.459 |
| 2,600.00 | 2,520.67 | 525.79 | -116.84 | 11.51 | 2,605.02 | 2,551.32 | 410.33 | -107.14 | 9.97 | 119.85 | 105.71 | 175.20 | 8.479 |
| 2,800.00 | 2,710.88 | 586.12 | -130.25 | 12.74 | 2,804.74 | 2,744.23 | 460.48 | -119.68 | 11.01 | 130.42 | 115.07 | 175.19 | 8.494 |
| 3,000.00 | 2,901.10 | 646.45 | -143.66 | 13.97 | 3,004.46 | 2,937.15 | 510.63 | -132.22 | 12.07 | 140.99 | 124.41 | 175.19 | 8.504 |
| 3,200.00 | 3,091.31 | 706.78 | -157.06 | 15.20 | 3,204.18 | 3,130.06 | 560.77 | -144.75 | 13.12 | 151.57 | 133.76 | 175.18 | 8.512 |
| 3,400.00 | 3,281.52 | 767.12 | -170.47 | 16.44 | 3,403.90 | 3,322.98 | 610.92 | -157.29 | 14.17 | 162.14 | 143.10 | 175.18 | 8.518 |
| 3,600.00 | 3,471.73 | 827.45 | -183.88 | 17.67 | 3,603.62 | 3,515.89 | 661.07 | -169.83 | 15.23 | 172.71 | 152.44 | 175.17 | 8.522 |
| 3,800.00 | 3,661.94 | 887.78 | -197.28 | 18.91 | 3,803.34 | 3,708.81 | 711.22 | -182.36 | 16.29 | 183.28 | 161.79 | 175.17 | 8.526 |
| 4,000.00 | 3,852.15 | 948.11 | -210.69 | 20.14 | 4,003.06 | 3,901.72 | 761.37 | -194.90 | 17.34 | 193.86 | 171.12 | 175.17 | 8.528 |
| 4,200.00 | 4,042.36 | 1,008.44 | -224.10 | 21.38 | 4,202.78 | 4,094.64 | 811.51 | -207.44 | 18.40 | 204.43 | 180.46 | 175.16 | 8.530 |
| 4,400.00 | 4,232.57 | 1,068.77 | -237.51 | 22.62 | 4,402.50 | 4,287.55 | 861.66 | -219.98 | 19.46 | 215.00 | 189.80 | 175.16 | 8.532 |
| 4,600.00 | 4,422.79 | 1,129.11 | -250.91 | 23.85 | 4,602.22 | 4,480.47 | 911.81 | -232.51 | 20.52 | 225.57 | 199.14 | 175.16 | 8.533 |
| 4,800.00 | 4,613.00 | 1,189.44 | -264.32 | 25.09 | 4,801.95 | 4,673.38 | 961.96 | -245.05 | 21.58 | 236.15 | 208.47 | 175.16 | 8.534 |
| 5,000.00 | 4,803.27 | 1,249.58 | -277.68 | 26.31 | 5,001.68 | 4,866.31 | 1,012.11 | -257.59 | 22.64 | 246.51 | 217.59 | 175.16 | 8.524 |
| 5,200.00 | 4,996.63 | 1,299.21 | -288.71 | 27.13 | 5,201.61 | 5,059.42 | 1,062.31 | -270.14 | 23.70 | 245.78 | 215.71 | 175.52 | 8.173 |
| 5,400.00 | 5,193.69 | 1,332.20 | -296.04 | 27.74 | 5,398.47 | 5,249.61 | 1,111.63 | -282.47 | 24.73 | 227.95 | 196.90 | 176.48 | 7.341 |
| 5,600.00 | 5,392.95 | 1,348.30 | -299.62 | 28.12 | 5,580.03 | 5,427.04 | 1,148.73 | -291.74 | 25.37 | 202.62 | 170.94 | 177.74 | 6.396 |
| 5,800.00 | 5,592.93 | 1,350.00 | -300.00 | 28.31 | 5,763.62 | 5,608.98 | 1,172.27 | -297.63 | 25.84 | 178.47 | 124.46 | 179.24 | 3.305 |
| 6,000.00 | 5,792.93 | 1,350.00 | -300.00 | 28.49 | 5,949.72 | 5,794.78 | 1,181.64 | -299.97 | 26.14 | 168.37 | 113.99 | 179.99 | 3.096 |
| 6,077.44 | 5,870.37 | 1,350.00 | -300.00 | 28.57 | 6,025.31 | 5,870.37 | 1,181.78 | -300.00 | 26.22 | 168.22 | 113.68 | 180.00 | 3.085 |
| 6,200.00 | 5,992.93 | 1,350.00 | -300.00 | 28.68 | 6,147.87 | 5,992.93 | 1,181.78 | -300.00 | 26.35 | 168.22 | 113.44 | 180.00 | 3.071 |
| 6,400.00 | 6,192.93 | 1,350.00 | -300.00 | 28.88 | 6,347.87 | 6,192.93 | 1,181.78 | -300.00 | 26.56 | 168.22 | 113.02 | 180.00 | 3.048 |
| 6,600.00 | 6,392.93 | 1,350.00 | -300.00 | 29.08 | 6,547.87 | 6,392.93 | 1,181.78 | -300.00 | 26.78 | 168.22 | 112.60 | 180.00 | 3.024 |
| 6,800.00 | 6,591.77 | 1,349.71 | -283.73 | 29.22 | 6,747.40 | 6,591.33 | 1,181.56 | -284.05 | 26.94 | 168.15 | 132.34 | 180.11 | 4.696 |
| 7,000.00 | 6,778.81 | 1,348.49 | -214.79 | 29.22 | 6,946.89 | 6,778.07 | 1,180.62 | -215.72 | 26.95 | 167.88 | 131.89 | 180.32 | 4.665 |
| 7,200.00 | 6,939.61 | 1,346.39 | -96.97 | 29.15 | 7,146.53 | 6,938.93 | 1,178.99 | -98.59 | 26.87 | 167.41 | 131.01 | 180.55 | 4.600 |
| 7,400.00 | 7,061.69 | 1,343.59 | 60.60 | 29.09 | 7,346.35 | 7,061.44 | 1,176.82 | 58.43 | 26.81 | 166.79 | 128.83 | 180.74 | 4.394 |
| 7,600.00 | 7,135.61 | 1,340.30 | 245.71 | 29.20 | 7,546.37 | 7,136.01 | 1,174.26 | 243.31 | 26.96 | 166.06 | 124.60 | 180.83 | 4.005 |
| 7,800.00 | 7,155.73 | 1,336.78 | 444.02 | 30.20 | 7,746.56 | 7,156.79 | 1,171.51 | 441.76 | 27.78 | 165.29 | 118.57 | 180.79 | 3.538 |
| 8,000.00 | 7,151.32 | 1,333.23 | 643.94 | 31.05 | 7,946.56 | 7,152.37 | 1,168.74 | 641.69 | 29.24 | 164.50 | 114.81 | 180.79 | 3.310 |
| 8,200.00 | 7,146.91 | 1,329.67 | 843.86 | 32.42 | 8,146.56 | 7,147.96 | 1,165.97 | 841.62 | 30.84 | 163.72 | 109.51 | 180.79 | 3.020 |
| 8,400.00 | 7,142.50 | 1,326.12 | 1,043.78 | 34.44 | 8,346.56 | 7,143.55 | 1,163.20 | 1,041.55 | 33.11 | 162.94 | 102.77 | 180.79 | 2.708 |
| 8,600.00 | 7,138.08 | 1,322.57 | 1,243.70 | 37.13 | 8,546.56 | 7,139.13 | 1,160.43 | 1,241.48 | 36.00 | 162.15 | 94.97 | 180.79 | 2.414 |
| 8,800.00 | 7,133.67 | 1,319.02 | 1,443.62 | 40.38 | 8,746.55 | 7,134.72 | 1,157.67 | 1,441.41 | 39.41 | 161.37 | 86.41 | 180.79 | 2.153 |
| 9,000.00 | 7,129.26 | 1,315.47 | 1,643.54 | 44.07 | 8,946.55 | 7,130.31 | 1,154.90 | 1,641.34 | 43.20 | 160.59 | 77.31 | 180.79 | 1.928 |
| 9,200.00 | 7,124.84 | 1,311.91 | 1,843.46 | 48.07 | 9,146.55 | 7,125.89 | 1,152.13 | 1,841.27 | 47.27 | 159.80 | 67.82 | 180.79 | 1.737 |
| 9,400.00 | 7,120.43 | 1,308.36 | 2,043.38 | 52.30 | 9,346.55 | 7,121.48 | 1,149.36 | 2,041.20 | 51.55 | 159.02 | 58.03 | 180.79 | 1.575 |
| 9,600.00 | 7,116.02 | 1,304.81 | 2,243.30 | 56.69 | 9,546.55 | 7,117.07 | 1,146.59 | 2,241.13 | 55.98 | 158.24 | 48.02 | 180.79 | 1.436 |

Anticollision Report for Deering 33-1H - Rev A0 (Permitting Plan Only)

Closest Approach 3D Proximity Scan on Current Survey Data (North Reference)

Offset Design: Sec. 33-T4N-R67W (Deering 33H Pad) - Deering 33-2H - Plan A - Rev A0 (Permitting Plan Only)

Scan Range: 0.00 to 12,017.51 ft. Measured Depth.

Scan Radius is 9,999.99 ft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

| Uncertainty Data for Reference Well | | | | | Uncertainty Data for Comparison Well | | | | | Separation (Ref. > Comp.) | | | |
|-------------------------------------|---------------------|---------------------------|---------------------------|----------------------|--------------------------------------|---------------------|---------------------------|---------------------------|----------------------|---------------------------|-----------------------|------------------------|------------------|
| Measured Depth (ft) | Vertical Depth (ft) | Ellipse Centre +N/-S (ft) | Ellipse Centre +E/-W (ft) | Ellipse Major Axis/2 | Measured Depth (ft) | Vertical Depth (ft) | Ellipse Centre +N/-S (ft) | Ellipse Centre +E/-W (ft) | Ellipse Major Axis/2 | Between Centres (ft) | Between Ellipsoids ft | Relative North Bearing | Clearance Factor |
| 9,800.00 | 7,111.61 | 1,301.26 | 2,443.22 | 61.22 | 9,746.55 | 7,112.65 | 1,143.82 | 2,441.06 | 60.53 | 157.45 | 37.84 | 180.79 | 1.316 |
| 10,000.00 | 7,107.19 | 1,297.70 | 2,643.14 | 65.84 | 9,946.55 | 7,108.24 | 1,141.05 | 2,640.99 | 65.18 | 156.67 | 27.53 | 180.78 | 1.213 |
| 10,200.00 | 7,102.78 | 1,294.15 | 2,843.06 | 70.53 | 10,146.54 | 7,103.83 | 1,138.28 | 2,840.92 | 69.89 | 155.88 | 17.12 | 180.78 | 1.123 |
| 10,400.00 | 7,098.37 | 1,290.60 | 3,042.98 | 75.29 | 10,346.54 | 7,099.41 | 1,135.52 | 3,040.85 | 74.66 | 155.10 | 6.62 | 180.78 | 1.045 |
| 10,600.00 | 7,093.95 | 1,287.05 | 3,242.90 | 80.10 | 10,546.54 | 7,095.00 | 1,132.75 | 3,240.78 | 79.48 | 154.32 | < 0 | 180.78 | 0.975 |
| 10,800.00 | 7,089.54 | 1,283.49 | 3,442.82 | 84.94 | 10,746.54 | 7,090.59 | 1,129.98 | 3,440.72 | 84.34 | 153.53 | < 0 | 180.78 | 0.913 |
| 11,000.00 | 7,085.13 | 1,279.94 | 3,642.74 | 89.82 | 10,946.54 | 7,086.17 | 1,127.21 | 3,640.65 | 89.23 | 152.75 | < 0 | 180.78 | 0.858 |
| 11,200.00 | 7,080.72 | 1,276.39 | 3,842.66 | 94.73 | 11,146.54 | 7,081.76 | 1,124.44 | 3,840.58 | 94.14 | 151.97 | < 0 | 180.78 | 0.809 |
| 11,400.00 | 7,076.30 | 1,272.84 | 4,042.58 | 99.66 | 11,346.53 | 7,077.35 | 1,121.67 | 4,040.51 | 99.08 | 151.18 | < 0 | 180.78 | 0.764 |
| 11,600.00 | 7,071.89 | 1,269.28 | 4,242.50 | 104.61 | 11,546.53 | 7,072.94 | 1,118.90 | 4,240.44 | 104.03 | 150.40 | < 0 | 180.78 | 0.724 |
| 11,800.00 | 7,067.48 | 1,265.73 | 4,442.42 | 109.58 | 11,746.53 | 7,068.52 | 1,116.13 | 4,440.37 | 109.01 | 149.62 | < 0 | 180.78 | 0.687 |
| 12,000.00 | 7,063.06 | 1,262.18 | 4,642.34 | 114.56 | 11,946.53 | 7,064.11 | 1,113.37 | 4,640.30 | 113.99 | 148.83 | < 0 | 180.78 | 0.653 |
| 12,017.51 | 7,062.68 | 1,261.87 | 4,659.84 | 114.99 | 11,964.04 | 7,063.72 | 1,113.12 | 4,657.80 | 114.43 | 148.76 | < 0 | 180.78 | 0.650 |

Anticollision Report for Deering 33-1H - Rev A0 (Permitting Plan Only)

Closest Approach 3D Proximity Scan on Current Survey Data (North Reference)

Offset Design: Sec. 33-T4N-R67W (Deering 33H Pad) - Deering 33-5H - Plan A - Rev A0 (Permitting Plan Only)

Scan Range: 0.00 to 12,017.51 ft. Measured Depth.

Scan Radius is 9,999.99 ft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

| Uncertainty Data for Reference Well | | | | | Uncertainty Data for Comparison Well | | | | | Separation (Ref. > Comp.) | | | |
|-------------------------------------|---------------------|---------------------------|---------------------------|----------------------|--------------------------------------|---------------------|---------------------------|---------------------------|----------------------|---------------------------|-----------------------|------------------------|------------------|
| Measured Depth (ft) | Vertical Depth (ft) | Ellipse Centre +N/-S (ft) | Ellipse Centre +E/-W (ft) | Ellipse Major Axis/2 | Measured Depth (ft) | Vertical Depth (ft) | Ellipse Centre +N/-S (ft) | Ellipse Centre +E/-W (ft) | Ellipse Major Axis/2 | Between Centres (ft) | Between Ellipsoids ft | Relative North Bearing | Clearance Factor |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.00 | -80.14 | 0.00 | 0.00 | 80.15 | 79.49 | 180.00 | 122.093 |
| 200.00 | 200.00 | 0.00 | 0.00 | 0.34 | 199.00 | 200.00 | -80.14 | 0.00 | 0.33 | 80.14 | 78.81 | 180.00 | 60.334 |
| 400.00 | 400.00 | 0.00 | 0.00 | 0.79 | 399.00 | 400.00 | -80.14 | 0.00 | 0.78 | 80.14 | 77.91 | 180.00 | 35.981 |
| 461.22 | 461.22 | 0.40 | -0.09 | 0.92 | 460.22 | 461.22 | -80.14 | 0.00 | 0.92 | 80.54 | 78.04 | 179.94 | 32.168 |
| 600.00 | 599.97 | 2.13 | -0.47 | 1.24 | 598.97 | 599.97 | -80.14 | 0.00 | 1.23 | 82.27 | 79.14 | 179.67 | 26.285 |
| 800.00 | 799.14 | 19.14 | -4.25 | 1.72 | 798.14 | 799.14 | -80.14 | 0.00 | 1.68 | 99.37 | 95.33 | 177.55 | 24.606 |
| 1,000.00 | 996.04 | 53.03 | -11.78 | 2.33 | 995.04 | 996.04 | -80.14 | 0.00 | 2.12 | 133.69 | 128.76 | 174.94 | 27.069 |
| 1,200.00 | 1,189.17 | 103.55 | -23.01 | 3.21 | 1,188.17 | 1,189.17 | -80.14 | 0.00 | 2.56 | 185.12 | 179.29 | 172.86 | 31.751 |
| 1,400.00 | 1,379.40 | 163.80 | -36.40 | 4.30 | 1,390.23 | 1,391.01 | -76.41 | -6.95 | 3.00 | 242.28 | 235.50 | 173.01 | 35.706 |
| 1,600.00 | 1,569.62 | 224.13 | -49.81 | 5.46 | 1,592.20 | 1,591.46 | -64.84 | -28.51 | 3.49 | 290.58 | 282.73 | 175.78 | 37.039 |
| 1,800.00 | 1,759.83 | 284.46 | -63.21 | 6.65 | 1,786.17 | 1,783.55 | -52.08 | -52.29 | 4.02 | 337.55 | 328.55 | 178.14 | 37.510 |
| 2,000.00 | 1,950.04 | 344.79 | -76.62 | 7.85 | 1,980.15 | 1,975.63 | -39.31 | -76.08 | 4.58 | 384.96 | 374.74 | 179.92 | 37.691 |
| 2,200.00 | 2,140.25 | 405.12 | -90.03 | 9.07 | 2,174.12 | 2,167.72 | -26.55 | -99.87 | 5.17 | 432.66 | 421.18 | 181.31 | 37.710 |
| 2,400.00 | 2,330.46 | 465.46 | -103.43 | 10.29 | 2,368.10 | 2,359.81 | -13.78 | -123.66 | 5.78 | 480.56 | 467.79 | 182.42 | 37.646 |
| 2,600.00 | 2,520.67 | 525.79 | -116.84 | 11.51 | 2,562.07 | 2,551.89 | -1.01 | -147.44 | 6.40 | 528.61 | 514.53 | 183.32 | 37.539 |
| 2,800.00 | 2,710.88 | 586.12 | -130.25 | 12.74 | 2,756.05 | 2,743.98 | 11.75 | -171.23 | 7.03 | 576.78 | 561.36 | 184.08 | 37.412 |
| 3,000.00 | 2,901.10 | 646.45 | -143.66 | 13.97 | 2,950.02 | 2,936.07 | 24.52 | -195.02 | 7.66 | 625.03 | 608.27 | 184.72 | 37.280 |
| 3,200.00 | 3,091.31 | 706.78 | -157.06 | 15.20 | 3,144.00 | 3,128.15 | 37.28 | -218.80 | 8.31 | 673.35 | 655.22 | 185.27 | 37.147 |
| 3,400.00 | 3,281.52 | 767.12 | -170.47 | 16.44 | 3,337.97 | 3,320.24 | 50.05 | -242.59 | 8.95 | 721.72 | 702.23 | 185.74 | 37.019 |
| 3,600.00 | 3,471.73 | 827.45 | -183.88 | 17.67 | 3,531.95 | 3,512.33 | 62.81 | -266.38 | 9.60 | 770.14 | 749.27 | 186.16 | 36.897 |
| 3,800.00 | 3,661.94 | 887.78 | -197.28 | 18.91 | 3,716.49 | 3,695.22 | 74.45 | -288.06 | 10.17 | 819.06 | 796.89 | 186.37 | 36.945 |
| 4,000.00 | 3,852.15 | 948.11 | -210.69 | 20.14 | 3,885.57 | 3,863.82 | 80.19 | -298.76 | 10.52 | 872.45 | 849.30 | 185.79 | 37.680 |
| 4,200.00 | 4,042.36 | 1,008.44 | -224.10 | 21.38 | 4,064.13 | 4,042.36 | 80.86 | -300.00 | 10.81 | 930.68 | 906.68 | 184.68 | 38.775 |
| 4,400.00 | 4,232.57 | 1,068.77 | -237.51 | 22.62 | 4,254.34 | 4,232.57 | 80.86 | -300.00 | 11.16 | 989.89 | 965.01 | 183.62 | 39.789 |
| 4,600.00 | 4,422.79 | 1,129.11 | -250.91 | 23.85 | 4,444.55 | 4,422.79 | 80.86 | -300.00 | 11.51 | 1,049.40 | 1,023.63 | 182.68 | 40.725 |
| 4,800.00 | 4,613.00 | 1,189.44 | -264.32 | 25.09 | 4,634.76 | 4,613.00 | 80.86 | -300.00 | 11.86 | 1,109.15 | 1,082.48 | 181.84 | 41.590 |
| 5,000.00 | 4,803.27 | 1,249.58 | -277.68 | 26.31 | 4,825.04 | 4,803.27 | 80.86 | -300.00 | 12.22 | 1,168.93 | 1,141.33 | 181.09 | 42.346 |
| 5,200.00 | 4,996.63 | 1,299.21 | -288.71 | 27.13 | 5,018.40 | 4,996.63 | 80.86 | -300.00 | 12.59 | 1,218.40 | 1,189.88 | 180.53 | 42.718 |
| 5,400.00 | 5,193.69 | 1,332.20 | -296.04 | 27.74 | 5,215.46 | 5,193.69 | 80.86 | -300.00 | 12.97 | 1,251.35 | 1,222.10 | 180.18 | 42.776 |
| 5,600.00 | 5,392.95 | 1,348.30 | -299.62 | 28.12 | 5,414.72 | 5,392.95 | 80.86 | -300.00 | 13.36 | 1,267.44 | 1,237.67 | 180.02 | 42.569 |
| 5,800.00 | 5,592.93 | 1,350.00 | -300.00 | 28.31 | 5,614.69 | 5,592.93 | 80.86 | -300.00 | 13.75 | 1,269.14 | 1,227.99 | 180.00 | 30.844 |
| 6,000.00 | 5,792.93 | 1,350.00 | -300.00 | 28.49 | 5,814.69 | 5,792.93 | 80.86 | -300.00 | 14.15 | 1,269.14 | 1,227.39 | 180.00 | 30.394 |
| 6,200.00 | 5,992.93 | 1,350.00 | -300.00 | 28.68 | 6,014.69 | 5,992.93 | 80.86 | -300.00 | 14.55 | 1,269.14 | 1,226.77 | 180.00 | 29.952 |
| 6,400.00 | 6,192.93 | 1,350.00 | -300.00 | 28.88 | 6,214.69 | 6,192.93 | 80.86 | -300.00 | 14.95 | 1,269.14 | 1,226.15 | 180.00 | 29.517 |
| 6,600.00 | 6,392.93 | 1,350.00 | -300.00 | 29.08 | 6,414.69 | 6,392.93 | 80.86 | -300.00 | 15.35 | 1,269.14 | 1,225.51 | 180.00 | 29.091 |
| 6,800.00 | 6,591.77 | 1,349.71 | -283.73 | 29.22 | 6,614.70 | 6,591.79 | 80.86 | -283.94 | 15.65 | 1,268.85 | 1,235.01 | 180.01 | 37.493 |
| 7,000.00 | 6,778.81 | 1,348.49 | -214.79 | 29.22 | 6,814.77 | 6,779.00 | 80.85 | -215.22 | 15.74 | 1,267.63 | 1,233.59 | 180.02 | 37.233 |
| 7,200.00 | 6,939.61 | 1,346.39 | -96.97 | 29.15 | 7,014.90 | 6,940.04 | 80.85 | -97.50 | 15.92 | 1,265.55 | 1,231.02 | 180.02 | 36.655 |
| 7,400.00 | 7,061.69 | 1,343.59 | 60.60 | 29.09 | 7,215.08 | 7,062.39 | 80.84 | 60.12 | 16.79 | 1,262.76 | 1,226.50 | 180.02 | 34.827 |
| 7,600.00 | 7,135.61 | 1,340.30 | 245.71 | 29.20 | 7,415.30 | 7,136.52 | 80.82 | 245.41 | 18.80 | 1,259.48 | 1,219.48 | 180.01 | 31.486 |
| 7,800.00 | 7,155.73 | 1,336.78 | 444.02 | 30.20 | 7,615.52 | 7,156.74 | 80.81 | 443.97 | 21.68 | 1,255.97 | 1,210.50 | 180.00 | 27.621 |
| 8,000.00 | 7,151.32 | 1,333.23 | 643.94 | 31.05 | 7,815.49 | 7,152.34 | 80.80 | 643.89 | 23.54 | 1,252.43 | 1,203.73 | 180.00 | 25.720 |
| 8,200.00 | 7,146.91 | 1,329.67 | 843.86 | 32.42 | 8,015.46 | 7,147.93 | 80.79 | 843.81 | 25.84 | 1,248.89 | 1,195.60 | 180.00 | 23.439 |
| 8,400.00 | 7,142.50 | 1,326.12 | 1,043.78 | 34.44 | 8,215.43 | 7,143.53 | 80.77 | 1,043.73 | 28.87 | 1,245.35 | 1,186.03 | 180.00 | 20.993 |
| 8,600.00 | 7,138.08 | 1,322.57 | 1,243.70 | 37.13 | 8,415.40 | 7,139.12 | 80.76 | 1,243.65 | 32.42 | 1,241.81 | 1,175.40 | 180.00 | 18.698 |
| 8,800.00 | 7,133.67 | 1,319.02 | 1,443.62 | 40.38 | 8,615.36 | 7,134.72 | 80.75 | 1,443.57 | 36.36 | 1,238.27 | 1,164.02 | 180.00 | 16.677 |
| 9,000.00 | 7,129.26 | 1,315.47 | 1,643.54 | 44.07 | 8,815.33 | 7,130.32 | 80.74 | 1,643.49 | 40.55 | 1,234.73 | 1,152.10 | 180.00 | 14.944 |
| 9,200.00 | 7,124.84 | 1,311.91 | 1,843.46 | 48.07 | 9,015.30 | 7,125.91 | 80.73 | 1,843.41 | 44.94 | 1,231.19 | 1,139.81 | 180.00 | 13.473 |
| 9,400.00 | 7,120.43 | 1,308.36 | 2,043.38 | 52.30 | 9,215.27 | 7,121.51 | 80.71 | 2,043.33 | 49.47 | 1,227.65 | 1,127.22 | 180.00 | 12.225 |
| 9,600.00 | 7,116.02 | 1,304.81 | 2,243.30 | 56.69 | 9,415.24 | 7,117.11 | 80.70 | 2,243.25 | 54.11 | 1,224.11 | 1,114.43 | 180.00 | 11.161 |
| 9,800.00 | 7,111.61 | 1,301.26 | 2,443.22 | 61.22 | 9,615.21 | 7,112.70 | 80.69 | 2,443.17 | 58.83 | 1,220.57 | 1,101.47 | 180.00 | 10.248 |
| 10,000.00 | 7,107.19 | 1,297.70 | 2,643.14 | 65.84 | 9,815.18 | 7,108.30 | 80.68 | 2,643.09 | 63.61 | 1,217.03 | 1,088.38 | 180.00 | 9.460 |

Anticollision Report for Deering 33-1H - Rev A0 (Permitting Plan Only)

Closest Approach 3D Proximity Scan on Current Survey Data (North Reference)

Offset Design: Sec. 33-T4N-R67W (Deering 33H Pad) - Deering 33-5H - Plan A - Rev A0 (Permitting Plan Only)

Scan Range: 0.00 to 12,017.51 ft. Measured Depth.

Scan Radius is 9,999.99 ft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

| Uncertainty Data for Reference Well | | | | | Uncertainty Data for Comparison Well | | | | | Separation (Ref. > Comp.) | | | |
|-------------------------------------|---------------------|---------------------------|---------------------------|----------------------|--------------------------------------|---------------------|---------------------------|---------------------------|----------------------|---------------------------|-----------------------|------------------------|------------------|
| Measured Depth (ft) | Vertical Depth (ft) | Ellipse Centre +N/-S (ft) | Ellipse Centre +E/-W (ft) | Ellipse Major Axis/2 | Measured Depth (ft) | Vertical Depth (ft) | Ellipse Centre +N/-S (ft) | Ellipse Centre +E/-W (ft) | Ellipse Major Axis/2 | Between Centres (ft) | Between Ellipsoids ft | Relative North Bearing | Clearance Factor |
| 10,200.00 | 7,102.78 | 1,294.15 | 2,843.06 | 70.53 | 10,015.14 | 7,103.89 | 80.66 | 2,843.01 | 68.44 | 1,213.49 | 1,075.19 | 180.00 | 8.774 |
| 10,400.00 | 7,098.37 | 1,290.60 | 3,042.98 | 75.29 | 10,215.11 | 7,099.49 | 80.65 | 3,042.93 | 73.31 | 1,209.95 | 1,061.92 | 180.00 | 8.174 |
| 10,600.00 | 7,093.95 | 1,287.05 | 3,242.90 | 80.10 | 10,415.08 | 7,095.09 | 80.64 | 3,242.85 | 78.21 | 1,206.41 | 1,048.59 | 180.00 | 7.644 |
| 10,800.00 | 7,089.54 | 1,283.49 | 3,442.82 | 84.94 | 10,615.05 | 7,090.68 | 80.63 | 3,442.77 | 83.13 | 1,202.87 | 1,035.20 | 180.00 | 7.174 |
| 11,000.00 | 7,085.13 | 1,279.94 | 3,642.74 | 89.82 | 10,815.02 | 7,086.28 | 80.61 | 3,642.69 | 88.08 | 1,199.33 | 1,021.76 | 180.00 | 6.754 |
| 11,200.00 | 7,080.72 | 1,276.39 | 3,842.66 | 94.73 | 11,014.99 | 7,081.87 | 80.60 | 3,842.61 | 93.05 | 1,195.79 | 1,008.29 | 180.00 | 6.377 |
| 11,400.00 | 7,076.30 | 1,272.84 | 4,042.58 | 99.66 | 11,214.96 | 7,077.47 | 80.59 | 4,042.53 | 98.04 | 1,192.25 | 994.78 | 180.00 | 6.038 |
| 11,600.00 | 7,071.89 | 1,269.28 | 4,242.50 | 104.61 | 11,414.93 | 7,073.07 | 80.58 | 4,242.45 | 103.03 | 1,188.71 | 981.25 | 180.00 | 5.730 |
| 11,800.00 | 7,067.48 | 1,265.73 | 4,442.42 | 109.58 | 11,614.89 | 7,068.66 | 80.56 | 4,442.37 | 108.04 | 1,185.17 | 967.69 | 180.00 | 5.450 |
| 12,000.00 | 7,063.06 | 1,262.18 | 4,642.34 | 114.56 | 11,814.86 | 7,064.26 | 80.55 | 4,642.29 | 113.06 | 1,181.63 | 954.11 | 180.00 | 5.194 |
| 12,017.51 | 7,062.68 | 1,261.87 | 4,659.84 | 114.99 | 11,832.37 | 7,063.87 | 80.55 | 4,659.79 | 113.50 | 1,181.32 | 952.93 | 180.00 | 5.172 |

Anticollision Report for Deering 33-1H - Rev A0 (Permitting Plan Only)

Closest Approach 3D Proximity Scan on Current Survey Data (North Reference)

Offset Design: Sec. 33-T4N-R67W (Deering 33H Pad) - Deering 33-3H - Plan A - Rev A0 (Permitting Plan Only)

Scan Range: 0.00 to 12,017.51 ft. Measured Depth.

Scan Radius is 9,999.99 ft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

| Uncertainty Data for Reference Well | | | | | Uncertainty Data for Comparison Well | | | | | Separation (Ref. > Comp.) | | | |
|-------------------------------------|---------------------|---------------------------|---------------------------|----------------------|--------------------------------------|---------------------|---------------------------|---------------------------|----------------------|---------------------------|-----------------------|------------------------|------------------|
| Measured Depth (ft) | Vertical Depth (ft) | Ellipse Centre +N/-S (ft) | Ellipse Centre +E/-W (ft) | Ellipse Major Axis/2 | Measured Depth (ft) | Vertical Depth (ft) | Ellipse Centre +N/-S (ft) | Ellipse Centre +E/-W (ft) | Ellipse Major Axis/2 | Between Centres (ft) | Between Ellipsoids ft | Relative North Bearing | Clearance Factor |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -40.07 | 0.00 | 0.00 | 40.07 | 39.41 | 180.00 | 61.039 |
| 200.00 | 200.00 | 0.00 | 0.00 | 0.34 | 200.00 | 200.00 | -40.07 | 0.00 | 0.34 | 40.07 | 38.74 | 180.00 | 30.115 |
| 400.00 | 400.00 | 0.00 | 0.00 | 0.79 | 400.00 | 400.00 | -40.07 | 0.00 | 0.79 | 40.07 | 37.84 | 180.00 | 17.971 |
| 461.29 | 461.29 | 0.40 | -0.09 | 0.92 | 461.29 | 461.29 | -40.07 | 0.00 | 0.92 | 40.47 | 37.96 | 179.88 | 16.147 |
| 600.00 | 599.97 | 2.13 | -0.47 | 1.24 | 599.97 | 599.97 | -40.07 | 0.00 | 1.24 | 42.20 | 39.07 | 179.36 | 13.473 |
| 800.00 | 799.14 | 19.14 | -4.25 | 1.72 | 799.14 | 799.14 | -40.07 | 0.00 | 1.68 | 59.36 | 55.32 | 175.89 | 14.692 |
| 1,000.00 | 996.04 | 53.03 | -11.78 | 2.33 | 1,003.70 | 1,003.43 | -31.51 | -2.92 | 2.15 | 85.32 | 80.39 | 174.01 | 17.296 |
| 1,200.00 | 1,189.17 | 103.55 | -23.01 | 3.21 | 1,210.68 | 1,208.49 | -5.33 | -11.84 | 2.68 | 111.15 | 105.30 | 174.14 | 19.006 |
| 1,400.00 | 1,379.40 | 163.80 | -36.40 | 4.30 | 1,415.05 | 1,408.17 | 35.77 | -25.86 | 3.37 | 131.64 | 124.74 | 175.29 | 19.063 |
| 1,600.00 | 1,569.62 | 224.13 | -49.81 | 5.46 | 1,614.21 | 1,602.22 | 78.17 | -40.31 | 4.16 | 149.86 | 141.82 | 176.28 | 18.641 |
| 1,800.00 | 1,759.83 | 284.46 | -63.21 | 6.65 | 1,813.36 | 1,796.27 | 120.57 | -54.77 | 5.01 | 168.10 | 158.89 | 177.05 | 18.251 |
| 2,000.00 | 1,950.04 | 344.79 | -76.62 | 7.85 | 2,012.52 | 1,990.32 | 162.98 | -69.22 | 5.89 | 186.37 | 175.96 | 177.67 | 17.898 |
| 2,200.00 | 2,140.25 | 405.12 | -90.03 | 9.07 | 2,211.67 | 2,184.37 | 205.38 | -83.68 | 6.78 | 204.66 | 193.02 | 178.18 | 17.588 |
| 2,400.00 | 2,330.46 | 465.46 | -103.43 | 10.29 | 2,410.83 | 2,378.42 | 247.79 | -98.13 | 7.69 | 222.95 | 210.08 | 178.61 | 17.317 |
| 2,600.00 | 2,520.67 | 525.79 | -116.84 | 11.51 | 2,609.98 | 2,572.47 | 290.19 | -112.59 | 8.61 | 241.26 | 227.14 | 178.97 | 17.079 |
| 2,800.00 | 2,710.88 | 586.12 | -130.25 | 12.74 | 2,809.14 | 2,766.52 | 332.59 | -127.05 | 9.53 | 259.58 | 244.19 | 179.28 | 16.871 |
| 3,000.00 | 2,901.10 | 646.45 | -143.66 | 13.97 | 3,008.29 | 2,960.57 | 375.00 | -141.50 | 10.46 | 277.90 | 261.25 | 179.55 | 16.687 |
| 3,200.00 | 3,091.31 | 706.78 | -157.06 | 15.20 | 3,207.45 | 3,154.62 | 417.40 | -155.96 | 11.39 | 296.23 | 278.30 | 179.78 | 16.523 |
| 3,400.00 | 3,281.52 | 767.12 | -170.47 | 16.44 | 3,406.60 | 3,348.68 | 459.81 | -170.41 | 12.32 | 314.56 | 295.36 | 179.99 | 16.378 |
| 3,600.00 | 3,471.73 | 827.45 | -183.88 | 17.67 | 3,605.76 | 3,542.73 | 502.21 | -184.87 | 13.26 | 332.90 | 312.41 | 180.17 | 16.247 |
| 3,800.00 | 3,661.94 | 887.78 | -197.28 | 18.91 | 3,804.91 | 3,736.78 | 544.61 | -199.33 | 14.20 | 351.24 | 329.46 | 180.34 | 16.130 |
| 4,000.00 | 3,852.15 | 948.11 | -210.69 | 20.14 | 4,004.07 | 3,930.83 | 587.02 | -213.78 | 15.13 | 369.58 | 346.51 | 180.49 | 16.023 |
| 4,200.00 | 4,042.36 | 1,008.44 | -224.10 | 21.38 | 4,203.23 | 4,124.88 | 629.42 | -228.24 | 16.07 | 387.92 | 363.57 | 180.63 | 15.927 |
| 4,400.00 | 4,232.57 | 1,068.77 | -237.51 | 22.62 | 4,402.38 | 4,318.93 | 671.82 | -242.69 | 17.01 | 406.27 | 380.62 | 180.75 | 15.839 |
| 4,600.00 | 4,422.79 | 1,129.11 | -250.91 | 23.85 | 4,601.54 | 4,512.98 | 714.23 | -257.15 | 17.95 | 424.62 | 397.67 | 180.86 | 15.758 |
| 4,800.00 | 4,613.00 | 1,189.44 | -264.32 | 25.09 | 4,800.69 | 4,707.03 | 756.63 | -271.60 | 18.90 | 442.96 | 414.72 | 180.96 | 15.684 |
| 5,000.00 | 4,803.27 | 1,249.58 | -277.68 | 26.31 | 4,988.83 | 4,890.51 | 796.01 | -285.03 | 19.75 | 461.94 | 432.45 | 180.93 | 15.664 |
| 5,200.00 | 4,996.63 | 1,299.21 | -288.71 | 27.13 | 5,155.56 | 5,054.93 | 821.96 | -293.87 | 20.25 | 480.83 | 450.45 | 180.62 | 15.830 |
| 5,400.00 | 5,193.69 | 1,332.20 | -296.04 | 27.74 | 5,321.51 | 5,220.14 | 836.48 | -298.83 | 20.60 | 496.43 | 465.52 | 180.32 | 16.056 |
| 5,600.00 | 5,392.95 | 1,348.30 | -299.62 | 28.12 | 5,494.39 | 5,392.95 | 839.93 | -300.00 | 20.83 | 508.37 | 477.23 | 180.04 | 16.325 |
| 5,800.00 | 5,592.93 | 1,350.00 | -300.00 | 28.31 | 5,694.37 | 5,592.93 | 839.93 | -300.00 | 21.08 | 510.07 | 461.08 | 180.00 | 10.411 |
| 6,000.00 | 5,792.93 | 1,350.00 | -300.00 | 28.49 | 5,894.37 | 5,792.93 | 839.93 | -300.00 | 21.33 | 510.07 | 460.63 | 180.00 | 10.318 |
| 6,200.00 | 5,992.93 | 1,350.00 | -300.00 | 28.68 | 6,094.37 | 5,992.93 | 839.93 | -300.00 | 21.59 | 510.07 | 460.18 | 180.00 | 10.224 |
| 6,400.00 | 6,192.93 | 1,350.00 | -300.00 | 28.88 | 6,294.37 | 6,192.93 | 839.93 | -300.00 | 21.86 | 510.07 | 459.71 | 180.00 | 10.129 |
| 6,600.00 | 6,392.93 | 1,350.00 | -300.00 | 29.08 | 6,494.37 | 6,392.93 | 839.93 | -300.00 | 22.13 | 510.07 | 459.23 | 180.00 | 10.033 |
| 6,800.00 | 6,591.77 | 1,349.71 | -283.73 | 29.22 | 6,693.52 | 6,590.94 | 839.80 | -283.91 | 22.33 | 509.91 | 474.99 | 180.02 | 14.601 |
| 7,000.00 | 6,778.81 | 1,348.49 | -214.79 | 29.22 | 6,892.47 | 6,777.14 | 839.26 | -215.68 | 22.34 | 509.23 | 474.13 | 180.10 | 14.511 |
| 7,200.00 | 6,939.61 | 1,346.39 | -96.97 | 29.15 | 7,091.56 | 6,937.59 | 838.34 | -98.90 | 22.26 | 508.06 | 472.55 | 180.22 | 14.307 |
| 7,400.00 | 7,061.69 | 1,343.59 | 60.60 | 29.09 | 7,290.87 | 7,059.95 | 837.10 | 57.60 | 22.20 | 506.50 | 469.38 | 180.34 | 13.645 |
| 7,600.00 | 7,135.61 | 1,340.30 | 245.71 | 29.20 | 7,490.44 | 7,134.66 | 835.65 | 241.95 | 22.43 | 504.67 | 463.98 | 180.43 | 12.403 |
| 7,800.00 | 7,155.73 | 1,336.78 | 444.02 | 30.20 | 7,690.30 | 7,155.82 | 834.08 | 440.05 | 24.09 | 502.72 | 456.70 | 180.45 | 10.925 |
| 8,000.00 | 7,151.32 | 1,333.23 | 643.94 | 31.05 | 7,890.29 | 7,151.41 | 832.50 | 639.98 | 25.78 | 500.74 | 451.87 | 180.45 | 10.246 |
| 8,200.00 | 7,146.91 | 1,329.67 | 843.86 | 32.42 | 8,090.29 | 7,147.00 | 830.92 | 839.92 | 27.94 | 498.77 | 445.24 | 180.45 | 9.317 |
| 8,400.00 | 7,142.50 | 1,326.12 | 1,043.78 | 34.44 | 8,290.28 | 7,142.59 | 829.34 | 1,039.86 | 30.77 | 496.80 | 437.17 | 180.45 | 8.332 |
| 8,600.00 | 7,138.08 | 1,322.57 | 1,243.70 | 37.13 | 8,490.27 | 7,138.18 | 827.75 | 1,239.79 | 34.13 | 494.83 | 428.07 | 180.45 | 7.412 |
| 8,800.00 | 7,133.67 | 1,319.02 | 1,443.62 | 40.38 | 8,690.26 | 7,133.77 | 826.17 | 1,439.73 | 37.91 | 492.86 | 418.23 | 180.45 | 6.604 |
| 9,000.00 | 7,129.26 | 1,315.47 | 1,643.54 | 44.07 | 8,890.25 | 7,129.36 | 824.59 | 1,639.66 | 41.98 | 490.89 | 407.86 | 180.45 | 5.913 |
| 9,200.00 | 7,124.84 | 1,311.91 | 1,843.46 | 48.07 | 9,090.24 | 7,124.95 | 823.01 | 1,839.60 | 46.27 | 488.92 | 397.12 | 180.45 | 5.326 |
| 9,400.00 | 7,120.43 | 1,308.36 | 2,043.38 | 52.30 | 9,290.23 | 7,120.54 | 821.43 | 2,039.53 | 50.71 | 486.94 | 386.09 | 180.45 | 4.828 |
| 9,600.00 | 7,116.02 | 1,304.81 | 2,243.30 | 56.69 | 9,490.22 | 7,116.13 | 819.85 | 2,239.47 | 55.28 | 484.97 | 374.85 | 180.45 | 4.404 |
| 9,800.00 | 7,111.61 | 1,301.26 | 2,443.22 | 61.22 | 9,690.21 | 7,111.72 | 818.27 | 2,439.40 | 59.94 | 483.00 | 363.45 | 180.45 | 4.040 |
| 10,000.00 | 7,107.19 | 1,297.70 | 2,643.14 | 65.84 | 9,890.20 | 7,107.31 | 816.69 | 2,639.34 | 64.67 | 481.03 | 351.92 | 180.45 | 3.726 |

Anticollision Report for Deering 33-1H - Rev A0 (Permitting Plan Only)

Closest Approach 3D Proximity Scan on Current Survey Data (North Reference)

Offset Design: Sec. 33-T4N-R67W (Deering 33H Pad) - Deering 33-3H - Plan A - Rev A0 (Permitting Plan Only)

Scan Range: 0.00 to 12,017.51 ft. Measured Depth.

Scan Radius is 9,999.99 ft . Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

| Uncertainty Data for Reference Well | | | | | Uncertainty Data for Comparison Well | | | | | Separation (Ref. > Comp.) | | | |
|-------------------------------------|---------------------|---------------------------|---------------------------|----------------------|--------------------------------------|---------------------|---------------------------|---------------------------|----------------------|---------------------------|-----------------------|------------------------|------------------|
| Measured Depth (ft) | Vertical Depth (ft) | Ellipse Centre +N/-S (ft) | Ellipse Centre +E/-W (ft) | Ellipse Major Axis/2 | Measured Depth (ft) | Vertical Depth (ft) | Ellipse Centre +N/-S (ft) | Ellipse Centre +E/-W (ft) | Ellipse Major Axis/2 | Between Centres (ft) | Between Ellipsoids ft | Relative North Bearing | Clearance Factor |
| 10,200.00 | 7,102.78 | 1,294.15 | 2,843.06 | 70.53 | 10,090.19 | 7,102.90 | 815.11 | 2,839.27 | 69.46 | 479.06 | 340.30 | 180.45 | 3.452 |
| 10,400.00 | 7,098.37 | 1,290.60 | 3,042.98 | 75.29 | 10,290.18 | 7,098.49 | 813.53 | 3,039.21 | 74.30 | 477.09 | 328.59 | 180.45 | 3.213 |
| 10,600.00 | 7,093.95 | 1,287.05 | 3,242.90 | 80.10 | 10,490.17 | 7,094.08 | 811.95 | 3,239.14 | 79.17 | 475.12 | 316.82 | 180.45 | 3.001 |
| 10,800.00 | 7,089.54 | 1,283.49 | 3,442.82 | 84.94 | 10,690.16 | 7,089.67 | 810.36 | 3,439.08 | 84.08 | 473.14 | 304.99 | 180.45 | 2.814 |
| 11,000.00 | 7,085.13 | 1,279.94 | 3,642.74 | 89.82 | 10,890.15 | 7,085.26 | 808.78 | 3,639.02 | 89.00 | 471.17 | 293.12 | 180.45 | 2.646 |
| 11,200.00 | 7,080.72 | 1,276.39 | 3,842.66 | 94.73 | 11,090.14 | 7,080.85 | 807.20 | 3,838.95 | 93.95 | 469.20 | 281.21 | 180.45 | 2.496 |
| 11,400.00 | 7,076.30 | 1,272.84 | 4,042.58 | 99.66 | 11,290.13 | 7,076.44 | 805.62 | 4,038.89 | 98.92 | 467.23 | 269.26 | 180.45 | 2.360 |
| 11,600.00 | 7,071.89 | 1,269.28 | 4,242.50 | 104.61 | 11,490.12 | 7,072.03 | 804.04 | 4,238.82 | 103.90 | 465.26 | 257.30 | 180.45 | 2.237 |
| 11,800.00 | 7,067.48 | 1,265.73 | 4,442.42 | 109.58 | 11,690.11 | 7,067.62 | 802.46 | 4,438.76 | 108.90 | 463.29 | 245.30 | 180.45 | 2.125 |
| 12,000.00 | 7,063.06 | 1,262.18 | 4,642.34 | 114.56 | 11,890.10 | 7,063.21 | 800.88 | 4,638.69 | 113.91 | 461.32 | 233.29 | 180.45 | 2.023 |
| 12,017.51 | 7,062.68 | 1,261.87 | 4,659.84 | 114.99 | 11,907.61 | 7,062.82 | 800.74 | 4,656.20 | 114.35 | 461.14 | 232.24 | 180.45 | 2.015 |

Anticollision Report for Deering 33-1H - Rev A0 (Permitting Plan Only)

Closest Approach 3D Proximity Scan on Current Survey Data (North Reference)

Offset Design: Sec. 33-T4N-R67W (Deering 33H Pad) - Deering 33-7HX - Plan A - Rev A0 (Permitting Plan Only)

Scan Range: 0.00 to 12,017.51 ft. Measured Depth.

Scan Radius is 9,999.99 ft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

| Uncertainty Data for Reference Well | | | | | Uncertainty Data for Comparison Well | | | | | Separation (Ref. > Comp.) | | | |
|-------------------------------------|---------------------|---------------------------|---------------------------|----------------------|--------------------------------------|---------------------|---------------------------|---------------------------|----------------------|---------------------------|-----------------------|------------------------|------------------|
| Measured Depth (ft) | Vertical Depth (ft) | Ellipse Centre +N/-S (ft) | Ellipse Centre +E/-W (ft) | Ellipse Major Axis/2 | Measured Depth (ft) | Vertical Depth (ft) | Ellipse Centre +N/-S (ft) | Ellipse Centre +E/-W (ft) | Ellipse Major Axis/2 | Between Centres (ft) | Between Ellipsoids ft | Relative North Bearing | Clearance Factor |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.00 | -120.22 | 0.00 | 0.00 | 120.26 | 119.61 | 180.00 | 183.201 |
| 200.00 | 200.00 | 0.00 | 0.00 | 0.34 | 197.00 | 200.00 | -120.22 | 0.00 | 0.33 | 120.22 | 118.90 | 180.00 | 90.817 |
| 400.00 | 400.00 | 0.00 | 0.00 | 0.79 | 397.00 | 400.00 | -120.22 | 0.00 | 0.78 | 120.22 | 118.00 | 180.00 | 54.085 |
| 461.19 | 461.19 | 0.40 | -0.09 | 0.92 | 458.19 | 461.19 | -120.22 | 0.00 | 0.92 | 120.62 | 118.12 | 179.96 | 48.266 |
| 600.00 | 599.97 | 2.13 | -0.47 | 1.24 | 596.97 | 599.97 | -120.22 | 0.00 | 1.23 | 122.35 | 119.23 | 179.78 | 39.147 |
| 800.00 | 799.14 | 19.14 | -4.25 | 1.72 | 796.14 | 799.14 | -120.22 | 0.00 | 1.68 | 139.43 | 135.40 | 178.25 | 34.560 |
| 1,000.00 | 996.04 | 53.03 | -11.78 | 2.33 | 993.04 | 996.04 | -120.22 | 0.00 | 2.12 | 173.66 | 168.72 | 176.11 | 35.181 |
| 1,200.00 | 1,189.17 | 103.55 | -23.01 | 3.21 | 1,176.15 | 1,178.97 | -124.56 | -5.20 | 2.48 | 229.02 | 223.24 | 175.53 | 39.565 |
| 1,400.00 | 1,379.40 | 163.80 | -36.40 | 4.30 | 1,358.70 | 1,360.61 | -136.20 | -19.18 | 2.87 | 301.08 | 294.35 | 176.71 | 44.743 |
| 1,600.00 | 1,569.62 | 224.13 | -49.81 | 5.46 | 1,544.91 | 1,545.80 | -148.67 | -34.13 | 3.31 | 373.88 | 366.16 | 177.59 | 48.385 |
| 1,800.00 | 1,759.83 | 284.46 | -63.21 | 6.65 | 1,731.12 | 1,730.99 | -161.13 | -49.08 | 3.79 | 446.74 | 437.98 | 178.18 | 50.949 |
| 2,000.00 | 1,950.04 | 344.79 | -76.62 | 7.85 | 1,917.32 | 1,916.17 | -173.59 | -64.04 | 4.29 | 519.64 | 509.80 | 178.61 | 52.814 |
| 2,200.00 | 2,140.25 | 405.12 | -90.03 | 9.07 | 2,103.53 | 2,101.36 | -186.05 | -78.99 | 4.80 | 592.55 | 581.62 | 178.93 | 54.217 |
| 2,400.00 | 2,330.46 | 465.46 | -103.43 | 10.29 | 2,289.74 | 2,286.55 | -198.51 | -93.94 | 5.33 | 665.48 | 653.45 | 179.18 | 55.298 |
| 2,600.00 | 2,520.67 | 525.79 | -116.84 | 11.51 | 2,475.95 | 2,471.74 | -210.97 | -108.89 | 5.86 | 738.42 | 725.27 | 179.38 | 56.152 |
| 2,800.00 | 2,710.88 | 586.12 | -130.25 | 12.74 | 2,710.35 | 2,705.61 | -220.15 | -119.91 | 6.36 | 806.35 | 792.10 | 179.27 | 56.604 |
| 3,000.00 | 2,901.10 | 646.45 | -143.66 | 13.97 | 2,905.84 | 2,901.10 | -220.22 | -120.00 | 6.72 | 867.00 | 851.78 | 178.44 | 56.966 |
| 3,200.00 | 3,091.31 | 706.78 | -157.06 | 15.20 | 3,096.05 | 3,091.31 | -220.22 | -120.00 | 7.09 | 927.75 | 911.55 | 177.71 | 57.276 |
| 3,400.00 | 3,281.52 | 767.12 | -170.47 | 16.44 | 3,286.26 | 3,281.52 | -220.22 | -120.00 | 7.46 | 988.63 | 971.45 | 177.07 | 57.542 |
| 3,600.00 | 3,471.73 | 827.45 | -183.88 | 17.67 | 3,476.48 | 3,471.73 | -220.22 | -120.00 | 7.83 | 1,049.62 | 1,031.45 | 176.51 | 57.772 |
| 3,800.00 | 3,661.94 | 887.78 | -197.28 | 18.91 | 3,666.69 | 3,661.94 | -220.22 | -120.00 | 8.21 | 1,110.70 | 1,091.54 | 176.01 | 57.972 |
| 4,000.00 | 3,852.15 | 948.11 | -210.69 | 20.14 | 3,856.90 | 3,852.15 | -220.22 | -120.00 | 8.60 | 1,171.85 | 1,151.70 | 175.56 | 58.147 |
| 4,200.00 | 4,042.36 | 1,008.44 | -224.10 | 21.38 | 4,047.11 | 4,042.36 | -220.22 | -120.00 | 8.99 | 1,233.07 | 1,211.92 | 175.16 | 58.299 |
| 4,400.00 | 4,232.57 | 1,068.77 | -237.51 | 22.62 | 4,237.32 | 4,232.57 | -220.22 | -120.00 | 9.38 | 1,294.34 | 1,272.19 | 174.79 | 58.433 |
| 4,600.00 | 4,422.79 | 1,129.11 | -250.91 | 23.85 | 4,427.53 | 4,422.79 | -220.22 | -120.00 | 9.78 | 1,355.67 | 1,332.51 | 174.46 | 58.551 |
| 4,800.00 | 4,613.00 | 1,189.44 | -264.32 | 25.09 | 4,617.74 | 4,613.00 | -220.22 | -120.00 | 10.18 | 1,417.03 | 1,392.87 | 174.15 | 58.655 |
| 5,000.00 | 4,803.27 | 1,249.58 | -277.68 | 26.31 | 4,808.02 | 4,803.27 | -220.22 | -120.00 | 10.58 | 1,478.24 | 1,453.04 | 173.88 | 58.659 |
| 5,200.00 | 4,996.63 | 1,299.21 | -288.71 | 27.13 | 5,001.38 | 4,996.63 | -220.22 | -120.00 | 10.99 | 1,528.77 | 1,502.50 | 173.66 | 58.194 |
| 5,400.00 | 5,193.69 | 1,332.20 | -296.04 | 27.74 | 5,198.44 | 5,193.69 | -220.22 | -120.00 | 11.40 | 1,562.38 | 1,535.26 | 173.53 | 57.613 |
| 5,600.00 | 5,392.95 | 1,348.30 | -299.62 | 28.12 | 5,397.70 | 5,392.95 | -220.22 | -120.00 | 11.83 | 1,578.78 | 1,551.05 | 173.47 | 56.944 |
| 5,800.00 | 5,592.93 | 1,350.00 | -300.00 | 28.31 | 5,597.67 | 5,592.93 | -220.22 | -120.00 | 12.26 | 1,580.51 | 1,539.63 | 173.46 | 38.667 |
| 6,000.00 | 5,792.93 | 1,350.00 | -300.00 | 28.49 | 5,797.67 | 5,792.93 | -220.22 | -120.00 | 12.69 | 1,580.51 | 1,539.01 | 173.46 | 38.089 |
| 6,200.00 | 5,992.93 | 1,350.00 | -300.00 | 28.68 | 5,997.67 | 5,992.93 | -220.22 | -120.00 | 13.12 | 1,580.51 | 1,538.39 | 173.46 | 37.522 |
| 6,400.00 | 6,192.93 | 1,350.00 | -300.00 | 28.88 | 6,197.67 | 6,192.93 | -220.22 | -120.00 | 13.55 | 1,580.51 | 1,537.75 | 173.46 | 36.966 |
| 6,600.00 | 6,392.93 | 1,350.00 | -300.00 | 29.08 | 6,397.67 | 6,392.93 | -220.22 | -120.00 | 13.99 | 1,580.51 | 1,537.11 | 173.46 | 36.421 |
| 6,800.00 | 6,591.77 | 1,349.71 | -283.73 | 29.22 | 6,641.51 | 6,634.40 | -219.96 | -146.06 | 14.59 | 1,576.27 | 1,543.86 | 174.99 | 48.629 |
| 7,000.00 | 6,778.81 | 1,348.49 | -214.79 | 29.22 | 6,810.47 | 6,790.41 | -219.31 | -209.91 | 15.21 | 1,567.84 | 1,534.23 | 179.82 | 46.648 |
| 7,035.83 | 6,809.94 | 1,348.17 | -197.06 | 29.20 | 6,828.91 | 6,806.41 | -219.21 | -219.06 | 15.30 | 1,567.54 | 1,533.75 | 180.80 | 46.383 |
| 7,200.00 | 6,939.61 | 1,346.39 | -96.97 | 29.15 | 6,878.69 | 6,848.40 | -218.94 | -245.80 | 15.55 | 1,575.03 | 1,540.75 | 185.43 | 45.936 |
| 7,400.00 | 7,061.69 | 1,343.59 | 60.60 | 29.09 | 6,886.29 | 6,854.65 | -218.89 | -250.13 | 15.59 | 1,606.48 | 1,571.59 | 191.25 | 46.038 |
| 7,600.00 | 7,135.61 | 1,340.30 | 245.71 | 29.20 | 6,850.00 | 6,824.43 | -219.10 | -230.04 | 15.40 | 1,659.79 | 1,623.00 | 196.97 | 45.115 |
| 7,800.00 | 7,155.73 | 1,336.78 | 444.02 | 30.20 | 6,815.38 | 6,794.70 | -219.28 | -212.31 | 15.23 | 1,726.98 | 1,688.10 | 202.87 | 44.416 |
| 8,000.00 | 7,151.32 | 1,333.23 | 643.94 | 31.05 | 6,770.42 | 6,754.87 | -219.49 | -191.48 | 15.04 | 1,807.22 | 1,766.33 | 208.28 | 44.200 |
| 8,200.00 | 7,146.91 | 1,329.67 | 843.86 | 32.42 | 6,734.32 | 6,721.98 | -219.65 | -176.58 | 14.90 | 1,903.22 | 1,859.34 | 213.37 | 43.367 |
| 8,400.00 | 7,142.50 | 1,326.12 | 1,043.78 | 34.44 | 6,700.00 | 6,690.07 | -219.78 | -163.97 | 14.78 | 2,013.25 | 1,965.68 | 218.00 | 42.325 |
| 8,600.00 | 7,138.08 | 1,322.57 | 1,243.70 | 37.13 | 6,680.37 | 6,671.55 | -219.84 | -157.45 | 14.71 | 2,135.40 | 2,083.50 | 222.25 | 41.149 |
| 8,800.00 | 7,133.67 | 1,319.02 | 1,443.62 | 40.38 | 6,650.00 | 6,642.57 | -219.93 | -148.38 | 14.61 | 2,268.04 | 2,211.66 | 225.97 | 40.229 |
| 9,000.00 | 7,129.26 | 1,315.47 | 1,643.54 | 44.07 | 6,650.00 | 6,642.57 | -219.93 | -148.38 | 14.61 | 2,409.41 | 2,347.89 | 229.41 | 39.162 |
| 9,200.00 | 7,124.84 | 1,311.91 | 1,843.46 | 48.07 | 6,627.19 | 6,620.57 | -220.00 | -142.37 | 14.54 | 2,558.23 | 2,491.77 | 232.35 | 38.489 |
| 9,400.00 | 7,120.43 | 1,308.36 | 2,043.38 | 52.30 | 6,600.00 | 6,594.11 | -220.06 | -136.13 | 14.46 | 2,713.55 | 2,642.14 | 234.96 | 38.001 |
| 9,600.00 | 7,116.02 | 1,304.81 | 2,243.30 | 56.69 | 6,600.00 | 6,594.11 | -220.06 | -136.13 | 14.46 | 2,873.90 | 2,797.00 | 237.35 | 37.373 |
| 9,800.00 | 7,111.61 | 1,301.26 | 2,443.22 | 61.22 | 6,600.00 | 6,594.11 | -220.06 | -136.13 | 14.46 | 3,038.95 | 2,956.50 | 239.47 | 36.855 |

Anticollision Report for Deering 33-1H - Rev A0 (Permitting Plan Only)

Closest Approach 3D Proximity Scan on Current Survey Data (North Reference)

Offset Design: Sec. 33-T4N-R67W (Deering 33H Pad) - Deering 33-7HX - Plan A - Rev A0 (Permitting Plan Only)

Scan Range: 0.00 to 12,017.51 ft. Measured Depth.

Scan Radius is 9,999.99 ft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

| Uncertainty Data for Reference Well | | | | | Uncertainty Data for Comparison Well | | | | | Separation (Ref. > Comp.) | | | |
|-------------------------------------|---------------------|---------------------------|---------------------------|----------------------|--------------------------------------|---------------------|---------------------------|---------------------------|----------------------|---------------------------|-----------------------|------------------------|------------------|
| Measured Depth (ft) | Vertical Depth (ft) | Ellipse Centre +N/-S (ft) | Ellipse Centre +E/-W (ft) | Ellipse Major Axis/2 | Measured Depth (ft) | Vertical Depth (ft) | Ellipse Centre +N/-S (ft) | Ellipse Centre +E/-W (ft) | Ellipse Major Axis/2 | Between Centres (ft) | Between Ellipsoids ft | Relative North Bearing | Clearance Factor |
| 10,000.00 | 7,107.19 | 1,297.70 | 2,643.14 | 65.84 | 6,600.00 | 6,594.11 | -220.06 | -136.13 | 14.46 | 3,207.99 | 3,119.92 | 241.36 | 36.425 |
| 10,200.00 | 7,102.78 | 1,294.15 | 2,843.06 | 70.53 | 6,575.33 | 6,569.91 | -220.11 | -131.34 | 14.40 | 3,379.94 | 3,286.75 | 243.02 | 36.271 |
| 10,400.00 | 7,098.37 | 1,290.60 | 3,042.98 | 75.29 | 6,550.00 | 6,544.91 | -220.15 | -127.29 | 14.33 | 3,555.18 | 3,456.93 | 244.52 | 36.185 |
| 10,600.00 | 7,093.95 | 1,287.05 | 3,242.90 | 80.10 | 6,550.00 | 6,544.91 | -220.15 | -127.29 | 14.33 | 3,732.46 | 3,628.55 | 245.91 | 35.918 |
| 10,800.00 | 7,089.54 | 1,283.49 | 3,442.82 | 84.94 | 6,550.00 | 6,544.91 | -220.15 | -127.29 | 14.33 | 3,911.94 | 3,802.33 | 247.16 | 35.691 |
| 11,000.00 | 7,085.13 | 1,279.94 | 3,642.74 | 89.82 | 6,550.00 | 6,544.91 | -220.15 | -127.29 | 14.33 | 4,093.32 | 3,978.00 | 248.30 | 35.497 |
| 11,200.00 | 7,080.72 | 1,276.39 | 3,842.66 | 94.73 | 6,550.00 | 6,544.91 | -220.15 | -127.29 | 14.33 | 4,276.36 | 4,155.32 | 249.35 | 35.331 |
| 11,400.00 | 7,076.30 | 1,272.84 | 4,042.58 | 99.66 | 6,550.00 | 6,544.91 | -220.15 | -127.29 | 14.33 | 4,460.85 | 4,334.08 | 250.30 | 35.188 |
| 11,600.00 | 7,071.89 | 1,269.28 | 4,242.50 | 104.61 | 6,550.00 | 6,544.91 | -220.15 | -127.29 | 14.33 | 4,646.63 | 4,514.11 | 251.18 | 35.063 |
| 11,800.00 | 7,067.48 | 1,265.73 | 4,442.42 | 109.58 | 6,550.00 | 6,544.91 | -220.15 | -127.29 | 14.33 | 4,833.55 | 4,695.27 | 251.99 | 34.955 |
| 12,000.00 | 7,063.06 | 1,262.18 | 4,642.34 | 114.56 | 6,550.00 | 6,544.91 | -220.15 | -127.29 | 14.33 | 5,021.47 | 4,877.42 | 252.74 | 34.861 |
| 12,017.51 | 7,062.68 | 1,261.87 | 4,659.84 | 114.99 | 6,550.00 | 6,544.91 | -220.15 | -127.29 | 14.33 | 5,037.97 | 4,893.42 | 252.80 | 34.854 |

Anticollision Report for Deering 33-1H - Rev A0 (Permitting Plan Only)

Closest Approach 3D Proximity Scan on Current Survey Data (North Reference)

Offset Design: Sec. 33-T4N-R67W (Deering 33H Pad) - Deering 33-9HX - Plan A - Rev A0 (Permitting Plan Only)

Scan Range: 0.00 to 12,017.51 ft. Measured Depth.

Scan Radius is 9,999.99 ft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

| Uncertainty Data for Reference Well | | | | | Uncertainty Data for Comparison Well | | | | | Separation (Ref. > Comp.) | | | |
|-------------------------------------|---------------------|---------------------------|---------------------------|----------------------|--------------------------------------|---------------------|---------------------------|---------------------------|----------------------|---------------------------|-----------------------|------------------------|------------------|
| Measured Depth (ft) | Vertical Depth (ft) | Ellipse Centre +N/-S (ft) | Ellipse Centre +E/-W (ft) | Ellipse Major Axis/2 | Measured Depth (ft) | Vertical Depth (ft) | Ellipse Centre +N/-S (ft) | Ellipse Centre +E/-W (ft) | Ellipse Major Axis/2 | Between Centres (ft) | Between Ellipsoids ft | Relative North Bearing | Clearance Factor |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.00 | -160.29 | 0.00 | 0.00 | 160.32 | 159.66 | 180.00 | 244.216 |
| 200.00 | 200.00 | 0.00 | 0.00 | 0.34 | 197.00 | 200.00 | -160.29 | 0.00 | 0.33 | 160.29 | 158.96 | 180.00 | 121.081 |
| 400.00 | 400.00 | 0.00 | 0.00 | 0.79 | 397.00 | 400.00 | -160.29 | 0.00 | 0.78 | 160.29 | 158.06 | 180.00 | 72.108 |
| 461.18 | 461.18 | 0.40 | -0.09 | 0.92 | 458.18 | 461.18 | -160.29 | 0.00 | 0.92 | 160.69 | 158.19 | 179.97 | 64.298 |
| 600.00 | 599.97 | 2.13 | -0.47 | 1.24 | 596.97 | 599.97 | -160.29 | 0.00 | 1.23 | 162.42 | 159.29 | 179.83 | 51.965 |
| 800.00 | 799.14 | 19.14 | -4.25 | 1.72 | 781.90 | 784.71 | -167.33 | -1.57 | 1.59 | 187.05 | 183.08 | 179.17 | 47.103 |
| 1,000.00 | 996.04 | 53.03 | -11.78 | 2.33 | 957.74 | 959.29 | -187.49 | -6.04 | 1.99 | 243.38 | 238.53 | 178.63 | 50.231 |
| 1,200.00 | 1,189.17 | 103.55 | -23.01 | 3.21 | 1,124.35 | 1,122.88 | -218.18 | -12.86 | 2.51 | 328.64 | 322.89 | 178.19 | 57.173 |
| 1,400.00 | 1,379.40 | 163.80 | -36.40 | 4.30 | 1,298.81 | 1,293.52 | -253.59 | -20.73 | 3.17 | 426.41 | 419.75 | 177.85 | 63.971 |
| 1,600.00 | 1,569.62 | 224.13 | -49.81 | 5.46 | 1,473.22 | 1,464.13 | -288.98 | -28.60 | 3.89 | 524.27 | 516.64 | 177.63 | 68.675 |
| 1,800.00 | 1,759.83 | 284.46 | -63.21 | 6.65 | 1,647.64 | 1,634.73 | -324.38 | -36.47 | 4.63 | 622.14 | 613.50 | 177.48 | 72.021 |
| 2,000.00 | 1,950.04 | 344.79 | -76.62 | 7.85 | 1,822.05 | 1,805.33 | -359.78 | -44.33 | 5.39 | 720.01 | 710.35 | 177.38 | 74.531 |
| 2,200.00 | 2,140.25 | 405.12 | -90.03 | 9.07 | 1,996.46 | 1,975.94 | -395.18 | -52.20 | 6.16 | 817.88 | 807.18 | 177.29 | 76.448 |
| 2,400.00 | 2,330.46 | 465.46 | -103.43 | 10.29 | 2,170.88 | 2,146.54 | -430.58 | -60.07 | 6.93 | 915.75 | 904.00 | 177.23 | 77.949 |
| 2,600.00 | 2,520.67 | 525.79 | -116.84 | 11.51 | 2,345.29 | 2,317.14 | -465.98 | -67.93 | 7.71 | 1,013.62 | 1,000.81 | 177.18 | 79.154 |
| 2,800.00 | 2,710.88 | 586.12 | -130.25 | 12.74 | 2,519.71 | 2,487.75 | -501.38 | -75.80 | 8.50 | 1,111.49 | 1,097.62 | 177.13 | 80.139 |
| 3,000.00 | 2,901.10 | 646.45 | -143.66 | 13.97 | 2,694.12 | 2,658.35 | -536.78 | -83.66 | 9.28 | 1,209.36 | 1,194.42 | 177.10 | 80.956 |
| 3,200.00 | 3,091.31 | 706.78 | -157.06 | 15.20 | 2,868.54 | 2,828.95 | -572.18 | -91.53 | 10.07 | 1,307.24 | 1,291.22 | 177.07 | 81.644 |
| 3,400.00 | 3,281.52 | 767.12 | -170.47 | 16.44 | 3,042.95 | 2,999.56 | -607.58 | -99.40 | 10.86 | 1,405.11 | 1,388.02 | 177.04 | 82.230 |
| 3,600.00 | 3,471.73 | 827.45 | -183.88 | 17.67 | 3,217.37 | 3,170.16 | -642.97 | -107.26 | 11.65 | 1,502.98 | 1,484.82 | 177.02 | 82.735 |
| 3,800.00 | 3,661.94 | 887.78 | -197.28 | 18.91 | 3,392.40 | 3,340.80 | -679.04 | -115.72 | 12.41 | 1,599.54 | 1,579.90 | 177.00 | 83.250 |
| 4,000.00 | 3,852.15 | 948.11 | -210.69 | 20.14 | 3,567.77 | 3,512.15 | -715.29 | -123.60 | 13.21 | 1,696.89 | 1,675.22 | 176.95 | 83.765 |
| 4,200.00 | 4,042.36 | 1,008.44 | -224.10 | 21.38 | 3,743.18 | 3,684.36 | -751.88 | -131.52 | 14.01 | 1,794.01 | 1,770.28 | 176.90 | 84.280 |
| 4,400.00 | 4,232.57 | 1,068.77 | -237.51 | 22.62 | 3,918.59 | 3,857.57 | -788.47 | -139.44 | 14.81 | 1,891.13 | 1,865.39 | 176.85 | 84.795 |
| 4,600.00 | 4,422.79 | 1,129.11 | -250.91 | 23.86 | 4,093.99 | 4,027.79 | -825.06 | -147.36 | 15.61 | 1,988.25 | 1,960.81 | 176.80 | 85.310 |
| 4,800.00 | 4,613.00 | 1,189.44 | -264.32 | 25.09 | 4,269.40 | 4,197.00 | -861.65 | -155.28 | 16.41 | 2,085.37 | 2,056.23 | 176.75 | 85.825 |
| 5,000.00 | 4,803.27 | 1,249.58 | -277.68 | 26.31 | 4,444.81 | 4,367.27 | -898.24 | -163.20 | 17.21 | 2,182.49 | 2,151.69 | 176.70 | 86.340 |
| 5,200.00 | 4,993.48 | 1,299.21 | -288.71 | 27.13 | 4,620.22 | 4,538.68 | -934.83 | -171.12 | 18.01 | 2,279.61 | 2,247.61 | 176.65 | 86.855 |
| 5,400.00 | 5,183.69 | 1,332.20 | -296.04 | 27.74 | 4,795.63 | 4,709.09 | -971.42 | -179.04 | 18.81 | 2,376.73 | 2,343.69 | 176.60 | 87.370 |
| 5,600.00 | 5,373.90 | 1,348.30 | -299.62 | 28.12 | 4,971.04 | 4,880.50 | -1,008.01 | -186.96 | 19.61 | 2,473.85 | 2,439.71 | 176.55 | 87.885 |
| 5,800.00 | 5,564.11 | 1,350.00 | -300.00 | 28.31 | 5,146.45 | 5,051.93 | -1,044.60 | -194.88 | 20.41 | 2,570.97 | 2,535.83 | 176.50 | 88.400 |
| 6,000.00 | 5,754.32 | 1,350.00 | -300.00 | 28.49 | 5,321.86 | 5,223.40 | -1,081.19 | -202.80 | 21.21 | 2,668.09 | 2,631.95 | 176.45 | 88.915 |
| 6,200.00 | 5,944.53 | 1,350.00 | -300.00 | 28.68 | 5,497.27 | 5,395.88 | -1,117.78 | -210.72 | 22.01 | 2,765.21 | 2,728.07 | 176.40 | 89.430 |
| 6,400.00 | 6,134.74 | 1,350.00 | -300.00 | 28.88 | 5,672.68 | 5,568.29 | -1,154.37 | -218.64 | 22.81 | 2,862.33 | 2,824.19 | 176.35 | 89.945 |
| 6,600.00 | 6,324.95 | 1,350.00 | -300.00 | 29.08 | 5,848.09 | 5,740.90 | -1,190.96 | -226.56 | 23.61 | 2,959.45 | 2,920.21 | 176.30 | 90.460 |
| 6,800.00 | 6,515.16 | 1,349.71 | -283.73 | 29.22 | 6,023.50 | 5,913.31 | -1,227.55 | -234.48 | 24.41 | 3,056.57 | 3,016.23 | 176.25 | 90.975 |
| 7,000.00 | 6,705.37 | 1,348.49 | -214.79 | 29.22 | 6,198.91 | 6,086.72 | -1,264.14 | -242.40 | 25.21 | 3,153.69 | 3,112.35 | 176.20 | 91.490 |
| 7,200.00 | 6,895.58 | 1,347.96 | -185.05 | 29.19 | 6,374.32 | 6,260.13 | -1,300.73 | -250.32 | 26.01 | 3,250.81 | 3,208.47 | 176.15 | 92.005 |
| 7,400.00 | 7,085.79 | 1,346.39 | -96.97 | 29.15 | 6,549.73 | 6,433.54 | -1,337.32 | -258.24 | 26.81 | 3,347.93 | 3,304.59 | 176.10 | 92.520 |
| 7,600.00 | 7,275.99 | 1,343.59 | 60.60 | 29.09 | 6,725.14 | 6,607.95 | -1,373.91 | -266.16 | 27.61 | 3,445.05 | 3,399.71 | 176.05 | 93.035 |
| 7,800.00 | 7,466.20 | 1,340.30 | 245.71 | 29.20 | 6,900.55 | 6,781.36 | -1,410.50 | -274.08 | 28.41 | 3,542.17 | 3,495.83 | 176.00 | 93.550 |
| 8,000.00 | 7,656.41 | 1,336.78 | 444.02 | 30.20 | 7,075.96 | 6,955.77 | -1,447.09 | -282.00 | 29.21 | 3,639.29 | 3,591.95 | 175.95 | 94.065 |
| 8,200.00 | 7,846.62 | 1,333.23 | 643.94 | 31.05 | 7,251.37 | 7,130.18 | -1,483.68 | -290.00 | 30.01 | 3,736.41 | 3,687.97 | 175.90 | 94.580 |
| 8,400.00 | 8,036.83 | 1,329.67 | 843.86 | 32.42 | 7,426.78 | 7,304.59 | -1,520.27 | -298.00 | 30.81 | 3,833.53 | 3,784.19 | 175.85 | 95.095 |
| 8,600.00 | 8,227.04 | 1,326.12 | 1,043.78 | 34.44 | 7,602.19 | 7,479.00 | -1,556.86 | -306.00 | 31.61 | 3,930.65 | 3,880.31 | 175.80 | 95.610 |
| 8,800.00 | 8,417.25 | 1,322.57 | 1,243.70 | 37.13 | 7,777.60 | 7,653.41 | -1,593.45 | -314.00 | 32.41 | 4,027.77 | 4,000.33 | 175.75 | 96.125 |
| 9,000.00 | 8,607.46 | 1,319.02 | 1,443.62 | 40.38 | 7,953.01 | 7,828.82 | -1,630.04 | -322.00 | 33.21 | 4,124.89 | 4,096.45 | 175.70 | 96.640 |
| 9,200.00 | 8,797.67 | 1,315.47 | 1,643.54 | 44.07 | 8,128.42 | 8,003.23 | -1,666.63 | -330.00 | 34.01 | 4,222.01 | 4,192.67 | 175.65 | 97.155 |
| 9,400.00 | 8,987.88 | 1,311.91 | 1,843.46 | 48.07 | 8,303.83 | 8,178.64 | -1,703.22 | -338.00 | 34.81 | 4,319.13 | 4,288.79 | 175.60 | 97.670 |
| 9,600.00 | 9,178.09 | 1,308.36 | 2,043.38 | 52.30 | 8,479.24 | 8,353.05 | -1,739.81 | -346.00 | 35.61 | 4,416.25 | 4,384.91 | 175.55 | 98.185 |
| 9,800.00 | 9,368.30 | 1,304.81 | 2,243.30 | 56.69 | 8,654.65 | 8,527.46 | -1,776.40 | -354.00 | 36.41 | 4,513.37 | 4,481.03 | 175.50 | 98.700 |

Anticollision Report for Deering 33-1H - Rev A0 (Permitting Plan Only)

Closest Approach 3D Proximity Scan on Current Survey Data (North Reference)

Offset Design: Sec. 33-T4N-R67W (Deering 33H Pad) - Deering 33-9HX - Plan A - Rev A0 (Permitting Plan Only)

Scan Range: 0.00 to 12,017.51 ft. Measured Depth.

Scan Radius is 9,999.99 ft. Clearance Factor cutoff is Unlimited. Max Ellipse Separation is Unlimited

| Uncertainty Data for Reference Well | | | | | Uncertainty Data for Comparison Well | | | | | Separation (Ref. > Comp.) | | | |
|-------------------------------------|---------------------|---------------------------|---------------------------|----------------------|--------------------------------------|---------------------|---------------------------|---------------------------|----------------------|---------------------------|-----------------------|------------------------|------------------|
| Measured Depth (ft) | Vertical Depth (ft) | Ellipse Centre +N/-S (ft) | Ellipse Centre +E/-W (ft) | Ellipse Major Axis/2 | Measured Depth (ft) | Vertical Depth (ft) | Ellipse Centre +N/-S (ft) | Ellipse Centre +E/-W (ft) | Ellipse Major Axis/2 | Between Centres (ft) | Between Ellipsoids ft | Relative North Bearing | Clearance Factor |
| 9,800.00 | 7,111.61 | 1,301.26 | 2,443.22 | 61.22 | 6,650.00 | 6,597.17 | -699.66 | -136.78 | 17.15 | 3,305.26 | 3,220.49 | 232.20 | 38.991 |
| 10,000.00 | 7,107.19 | 1,297.70 | 2,643.14 | 65.84 | 6,650.00 | 6,597.17 | -699.66 | -136.78 | 17.15 | 3,460.86 | 3,370.35 | 234.30 | 38.238 |
| 10,200.00 | 7,102.78 | 1,294.15 | 2,843.06 | 70.53 | 6,624.30 | 6,571.97 | -699.85 | -131.71 | 17.10 | 3,620.36 | 3,524.45 | 236.17 | 37.744 |
| 10,400.00 | 7,098.37 | 1,290.60 | 3,042.98 | 75.29 | 6,600.00 | 6,548.00 | -700.00 | -127.74 | 17.04 | 3,784.02 | 3,682.68 | 237.88 | 37.340 |
| 10,600.00 | 7,093.95 | 1,287.05 | 3,242.90 | 80.10 | 6,600.00 | 6,548.00 | -700.00 | -127.74 | 17.04 | 3,950.65 | 3,843.49 | 239.48 | 36.868 |
| 10,800.00 | 7,089.54 | 1,283.49 | 3,442.82 | 84.94 | 6,600.00 | 6,548.00 | -700.00 | -127.74 | 17.04 | 4,120.24 | 4,007.24 | 240.95 | 36.463 |
| 11,000.00 | 7,085.13 | 1,279.94 | 3,642.74 | 89.82 | 6,600.00 | 6,548.00 | -700.00 | -127.74 | 17.04 | 4,292.45 | 4,173.60 | 242.30 | 36.114 |
| 11,200.00 | 7,080.72 | 1,276.39 | 3,842.66 | 94.73 | 6,600.00 | 6,548.00 | -700.00 | -127.74 | 17.04 | 4,466.98 | 4,342.25 | 243.54 | 35.812 |
| 11,400.00 | 7,076.30 | 1,272.84 | 4,042.58 | 99.66 | 6,600.00 | 6,548.00 | -700.00 | -127.74 | 17.04 | 4,643.57 | 4,512.94 | 244.68 | 35.548 |
| 11,600.00 | 7,071.89 | 1,269.28 | 4,242.50 | 104.61 | 6,600.00 | 6,548.00 | -700.00 | -127.74 | 17.04 | 4,821.98 | 4,685.45 | 245.74 | 35.318 |
| 11,800.00 | 7,067.48 | 1,265.73 | 4,442.42 | 109.58 | 6,600.00 | 6,548.00 | -700.00 | -127.74 | 17.04 | 5,002.03 | 4,859.58 | 246.73 | 35.116 |
| 12,000.00 | 7,063.06 | 1,262.18 | 4,642.34 | 114.56 | 6,576.43 | 6,524.64 | -700.11 | -124.67 | 17.00 | 5,183.13 | 5,035.28 | 247.63 | 35.056 |
| 12,017.51 | 7,062.68 | 1,261.87 | 4,659.84 | 114.99 | 6,576.12 | 6,524.33 | -700.12 | -124.63 | 17.00 | 5,199.08 | 5,050.72 | 247.70 | 35.044 |

Survey tool program

| From (ft) | To (ft) | Survey/Plan | Survey Tool |
|-----------|-----------|-------------------------------|-------------|
| 0.00 | 7,787.86 | Rev A0 (Permitting Plan Only) | MWD |
| 7,787.86 | 12,016.91 | Rev A0 (Permitting Plan Only) | MWD |

Ellipse error terms are correlated across survey tool tie-on points.

Calculated ellipses incorporate surface errors.

Separation is the actual distance between ellipsoids.

Distance Between centres is the straight line distance between wellbore centres.

Clearance Factor = Distance Between Profiles / (Distance Between Profiles - Ellipse Separation).

All station coordinates were calculated using the Minimum Curvature method.

Anticollision Report for Deering 33-1H - Rev A0 (Permitting Plan Only)

Direction and Coordinates are relative to True North Reference.

Vertical Depths are relative to GL @ 4905.00ft (Ground Level). Northing and Easting are relative to Deering 33-1H - Slot A1

Coordinate System is US State Plane 1983, Colorado Northern Zone

Central Meridian is -105.00°, Grid Convergence at Surface is: 0.39°

