

**5D Plan Report**

Synergy Resources

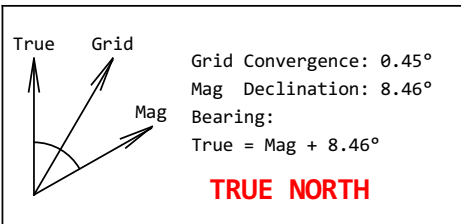
Field Name: *CO N - NAD 83*
Site Name: *Goetzel 25-29 Pad*
Well Name: *Goetzel 33C-30-M*
Plan: *P1:V1*

5 December 2016





Goetzel 33C-30-M
Weld County, CO
Precision 562



Plan Data for Goetzel 33C-30-M

Plan Point Information:

| Dogleg Severity (USft) | Inc (°) | Az (°) | TVD (USft) | +N/-S (USft) | +E/-W (USft) | VSec (USft) | DLS (DLSU) | Toolface (°) |
|------------------------|---------|--------|------------|--------------|--------------|-------------|------------|--------------|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -0.00 | 0.00 | 0.0 |
| 1150.00 | 0.00 | 0.00 | 1150.00 | 0.00 | 0.00 | -0.00 | 0.00 | 0.0 |
| 1948.90 | 15.98 | 115.72 | 1938.59 | -48.02 | 99.71 | -91.29 | 2.00 | 115.7 |
| 6398.12 | 15.98 | 115.72 | 6215.92 | -579.44 | 1203.14 | -1101.51 | 0.00 | 0.0 |
| 7697.96 | 90.00 | 267.13 | 7097.00 | -734.79 | 515.10 | -397.87 | 8.00 | 150.5 |
| 15600.60 | 90.00 | 267.13 | 7097.00 | -1130.42 | -7377.63 | 7463.73 | 0.00 | 0.0 |

Target Set Information:

Name: Goetzel 33C-30-M

Position offsets from Slot centre

| Name | TVD (USft) | +N/-S (USft) | +E/-W (USft) | Northing (USft) | Easting (USft) | Lat (°) | Long (°) |
|---------------|------------|--------------|--------------|-----------------|----------------|-----------|-------------|
| LP 33C-30-M | 7097.00 | -734.79 | 515.10 | 1409652.50 | 3194158.63 | 40.455801 | -104.802286 |
| PBHL 33C-30-M | 7097.00 | -1130.42 | -7377.63 | 1409194.95 | 3186269.25 | 40.454712 | -104.830648 |



Drawing By: GWR Date: 12/05/2016
Weatherford Drilling Services
7725 W. Reno, Ste. #220
Oklahoma City, OK 73127
+1.405.773.1100 Main
+1.405.773.1887 Fax

Plan Data for Goetzel 33C-30-M

Field: CO N - NAD 83
Map Unit: USFt
Vertical Reference Datum (VRD): Mean Sea Level
Projected Coordinate System: NAD83 / Colorado North (ftUS)

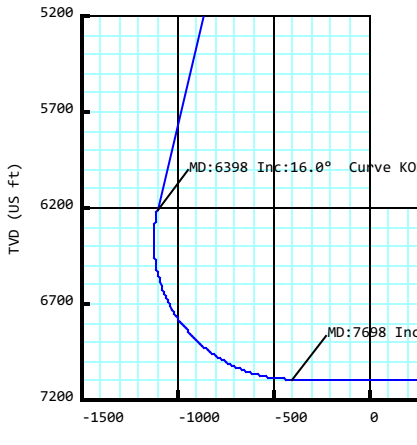
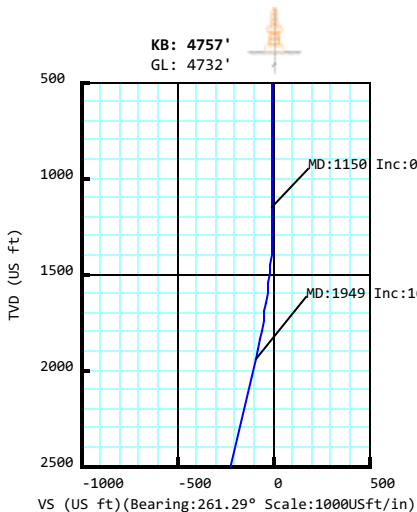
Site: Goetzel 25-29 Pad
Unit: USFeet
TVD Reference:
Company Name: Synergy Resources

Position:
Northing: 1410483.05USft
Latitude: 40.458092°
Easting: 3193637.83USft
Longitude: -104.804134°
North Reference: True
Grid Convergence: 0.45°
Elevation Above VRD: 4732.00USft

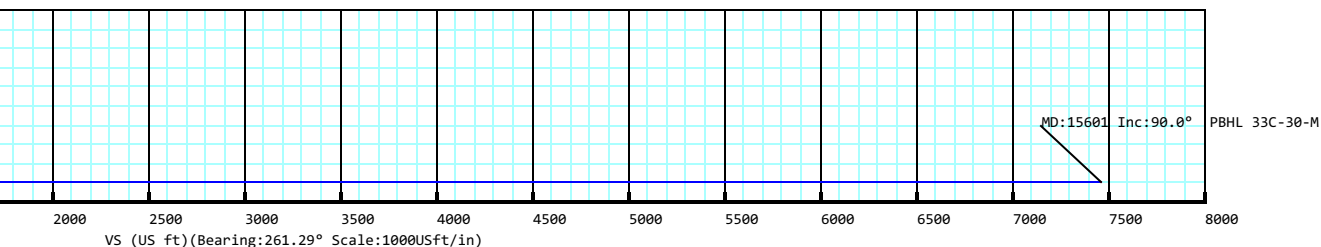
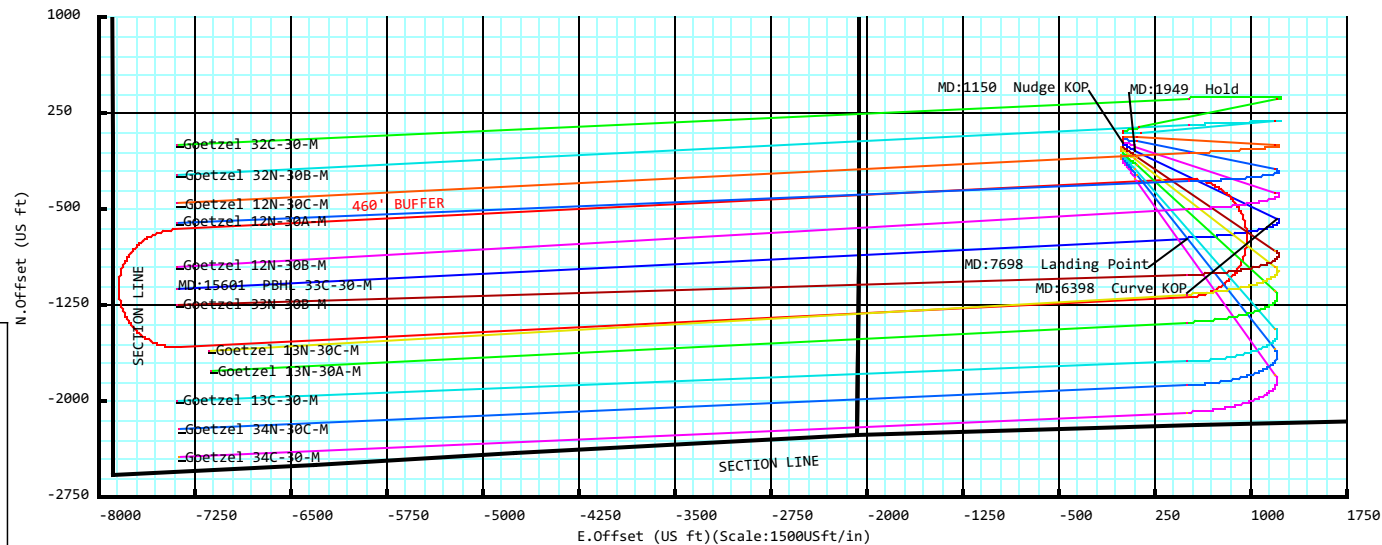
Slot: Goetzel 33C-30-M
Position:
Offset is from Site centre
+N/-S: -99.82USft
Northing: 1410383.22USft
Latitude: 40.457818°
+E/-W: -0.83USft
Easting: 3193637.78USft
Longitude: -104.804137°
Elevation Above VRD: 4732.00USft

Well: Goetzel 33C-30-M
Type: Main-Well
File Number:

Plan Folder: P1
Vertical Section: Position offset of origin from Slot centre:
+N/-S: 0.00USft
+E/-W: 0.00USft
Magnetic Parameters:
Model: Field Strength: Declination: Dip: Date:
bggm2016 52524(nT) 8.46° 66.93° 2016-11-18



- Goetzel 33C-30-M
- Goetzel 32C-30-M
- Goetzel 32N-30B-M
- Goetzel 12N-30C-M
- Goetzel 12N-30A-M
- Goetzel 12N-30B-M
- Goetzel 33N-30B-M
- Goetzel 13N-30C-M
- Goetzel 13N-30A-M
- Goetzel 13C-30-M
- Goetzel 34N-30C-M
- Goetzel 34C-30-M



Goetzel 33C-30-M

| | | | | |
|----------------------------------|--|----------------------------|---------------------------------|---------------------------|
| Field Name: CO N - NAD 83 | Map Units: US ft | | Company Name: Synergy Resources | |
| | Vertical Reference Datum (VRD): Mean Sea Level | | | |
| | Projected Coordinate System: NAD83 / Colorado North (ftUS) | | | |
| | Comment: | | | |
| Site: Goetzel 25-29 Pad | Units: US ft | North Reference: True | | Convergence Angle: 0.45 |
| | Position: | Northing: 1410483.05 US ft | | Latitude: 40.458092000 |
| | | Easting: 3193637.83 US ft | | Longitude: -104.804134000 |
| | Elevation above MSL:4732.00 US ft | | | |
| Comment: | | | | |
| Slot: Goetzel 33C-30-M | Position (Relative to Site Centre) | | | |
| | +N/-S: -99.82 US ft | Northing: 1410383.22 US ft | | Latitude: 40.457818000 |
| | +E/-W: -0.83 US ft | Easting: 3193637.78 US ft | | Longitude: -104.804137000 |
| | Slot TVD Reference: Ground Elevation | | | |
| | Elevation above MSL: 4732.00 US ft | | | |
| Comment: | | | | |
| Well: Goetzel 33C-30-M | Type:Main well | | UWI: | Plan:P1:V1 |
| | File Number: | Comment: | | |
| | Closure Distance:7463.73US ft | | Closure Azimuth:261.29° | |
| | Vertical Section: Position of Origin (Relative to Slot centre) | | | |
| | +N/-S: 0.00 US ft | | +E/-W: 0.00 US ft | |
| | Az: 261.29° | | | |
| | Magnetic Parameters: | | | |
| Model: bggm2016 | | Field Strength: 52524.6nT | Declination: 8.46° | Dip: 66.93° |
| | | | | Date: 18/Nov/2016 |

Drill floor: Plan: P1:V1

| | | | |
|----------------------------------|-----------------------------|---------------------------|-----------------------|
| Rig Height (Drill Floor): | Elevation above MSL: | Inclination: 0.00° | Azimuth: 0.00° |
| 25.00 US ft | 4757.00 US ft | | |

Target set: Goetzel 33C-30-M Comment:

| Target Name: | Shape: | TVD (US ft) | N.Offset (US ft) | E.Offset (US ft) | Northings (US ft) | Easting (US ft) | Comment |
|---------------|--------|-------------|------------------|------------------|-------------------|-----------------|---------|
| LP 33C-30-M | Point | 7097.00 | -734.79 | 515.10 | 1409652.50 | 3194158.63 | |
| PBHL 33C-30-M | Point | 7097.00 | -1130.42 | -7377.63 | 1409194.95 | 3186269.25 | |

Wellpath created using minimum curvature.

Tie Point:

| | | | | | |
|-----------------------|---------------------------|-----------------------|------------------------|---------------------------------|--------------------------------|
| MD: 0.00 US ft | Inclination: 0.00° | Azimuth: 0.00° | TVD: 0.00 US ft | North Offset: 0.00 US ft | East Offset: 0.00 US ft |
|-----------------------|---------------------------|-----------------------|------------------------|---------------------------------|--------------------------------|

Salient Points: (Relative to Slot centre) (TVD relative to Drill Floor)

| MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | VS (US ft) | N.Offset (US ft) | E.Offset (US ft) | B.Rate (°/100 US ft) | T.Rate (°/100 US ft) | DLS (°/100 US ft) | Comment |
|------------|---------|--------|-------------|------------|------------------|------------------|----------------------|----------------------|-------------------|---------------|
| 0.00 | 0.00 | 0.00 | 0.00 | -0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1150.00 | 0.00 | 0.00 | 1150.00 | -0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | Nudge KOP |
| 1948.90 | 15.98 | 115.72 | 1938.59 | -91.29 | -48.02 | 99.71 | 2.00 | 0.00 | 2.00 | Hold |
| 6398.12 | 15.98 | 115.72 | 6215.92 | -1101.51 | -579.44 | 1203.14 | 0.00 | 0.00 | 0.00 | Curve KOP |
| 7697.96 | 90.00 | 267.13 | 7097.00 | -397.87 | -734.79 | 515.10 | 5.69 | 11.65 | 8.00 | Landing Point |

5D Plan Report

| Salient Points: (Relative to Slot centre)(TVD relative to Drill Floor) | | | | | | | | | | |
|---|------------|-----------|----------------|---------------|---------------------|---------------------|------------------------|------------------------|---------------------|---------------|
| MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | VS (US ft) | N.Offset (US ft) | E.Offset (US ft) | B.Rate (°/100US ft) | T.Rate (°/100US ft) | DLS (°/100US ft) | Comment |
| 15600.60 | 90.00 | 267.13 | 7097.00 | 7463.73 | -1130.42 | -7377.63 | 0.00 | 0.00 | 0.00 | PBHL 33C-30-M |
| Interpolated Points: (Relative to Slot centre)(TVD relative to Drill Floor) | | | | | | | | | | |
| MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | VS (US ft) | N.Offset (US ft) | E.Offset (US ft) | B.Rate (°/100US ft) | T.Rate (°/100US ft) | DLS (°/100US ft) | Comment |
| 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 | |
| 200.00 | 0.00 | 0.00 | 200.00 | -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 | |
| 400.00 | 0.00 | 0.00 | 400.00 | -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 | |
| 600.00 | 0.00 | 0.00 | 600.00 | -0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 700.00 | 0.00 | 0.00 | 700.00 | -0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 800.00 | 0.00 | 0.00 | 800.00 | -0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 900.00 | 0.00 | 0.00 | 900.00 | -0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1000.00 | 0.00 | 0.00 | 1000.00 | -0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1100.00 | 0.00 | 0.00 | 1100.00 | -0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1150.00 | 0.00 | 0.00 | 1150.00 | -0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | Nudge KOP |
| 1200.00 | 1.00 | 115.72 | 1200.00 | -0.36 | -0.19 | 0.39 | 2.00 | 0.00 | 2.00 | |
| 1300.00 | 3.00 | 115.72 | 1299.93 | -3.24 | -1.70 | 3.54 | 2.00 | -0.00 | 2.00 | |
| 1400.00 | 5.00 | 115.72 | 1399.68 | -8.99 | -4.73 | 9.82 | 2.00 | 0.00 | 2.00 | |
| 1500.00 | 7.00 | 115.72 | 1499.13 | -17.61 | -9.27 | 19.24 | 2.00 | -0.00 | 2.00 | |
| 1600.00 | 9.00 | 115.72 | 1598.15 | -29.09 | -15.30 | 31.78 | 2.00 | 0.00 | 2.00 | |
| 1700.00 | 11.00 | 115.72 | 1696.63 | -43.42 | -22.84 | 47.42 | 2.00 | -0.00 | 2.00 | |
| 1800.00 | 13.00 | 115.72 | 1794.44 | -60.56 | -31.86 | 66.15 | 2.00 | 0.00 | 2.00 | |
| 1900.00 | 15.00 | 115.72 | 1891.46 | -80.52 | -42.36 | 87.95 | 2.00 | -0.00 | 2.00 | |
| 1948.90 | 15.98 | 115.72 | 1938.59 | -91.29 | -48.02 | 99.71 | 2.00 | 0.00 | 2.00 | Hold |
| 2000.00 | 15.98 | 115.72 | 1987.71 | -102.89 | -54.13 | 112.39 | 0.00 | 0.00 | 0.00 | |
| 2100.00 | 15.98 | 115.72 | 2083.85 | -125.60 | -66.07 | 137.19 | 0.00 | 0.00 | 0.00 | |
| 2200.00 | 15.98 | 115.72 | 2179.98 | -148.30 | -78.01 | 161.99 | 0.00 | 0.00 | 0.00 | |
| 2300.00 | 15.98 | 115.72 | 2276.12 | -171.01 | -89.96 | 186.79 | 0.00 | 0.00 | 0.00 | |
| 2400.00 | 15.98 | 115.72 | 2372.26 | -193.71 | -101.90 | 211.59 | 0.00 | 0.00 | 0.00 | |
| 2500.00 | 15.98 | 115.72 | 2468.39 | -216.42 | -113.85 | 236.39 | 0.00 | 0.00 | 0.00 | |
| 2600.00 | 15.98 | 115.72 | 2564.53 | -239.12 | -125.79 | 261.19 | 0.00 | 0.00 | 0.00 | |
| 2700.00 | 15.98 | 115.72 | 2660.67 | -261.83 | -137.73 | 285.99 | 0.00 | 0.00 | 0.00 | |
| 2800.00 | 15.98 | 115.72 | 2756.81 | -284.54 | -149.68 | 310.79 | 0.00 | 0.00 | 0.00 | |
| 2900.00 | 15.98 | 115.72 | 2852.94 | -307.24 | -161.62 | 335.59 | 0.00 | 0.00 | 0.00 | |
| 3000.00 | 15.98 | 115.72 | 2949.08 | -329.95 | -173.57 | 360.39 | 0.00 | 0.00 | 0.00 | |
| 3100.00 | 15.98 | 115.72 | 3045.22 | -352.65 | -185.51 | 385.19 | 0.00 | 0.00 | 0.00 | |
| 3200.00 | 15.98 | 115.72 | 3141.35 | -375.36 | -197.46 | 409.99 | 0.00 | 0.00 | 0.00 | |
| 3300.00 | 15.98 | 115.72 | 3237.49 | -398.06 | -209.40 | 434.79 | 0.00 | 0.00 | 0.00 | |
| 3400.00 | 15.98 | 115.72 | 3333.63 | -420.77 | -221.34 | 459.59 | 0.00 | 0.00 | 0.00 | |
| 3500.00 | 15.98 | 115.72 | 3429.76 | -443.47 | -233.29 | 484.39 | 0.00 | 0.00 | 0.00 | |
| 3600.00 | 15.98 | 115.72 | 3525.90 | -466.18 | -245.23 | 509.19 | 0.00 | 0.00 | 0.00 | |
| 3700.00 | 15.98 | 115.72 | 3622.04 | -488.88 | -257.18 | 534.00 | 0.00 | 0.00 | 0.00 | |
| 3800.00 | 15.98 | 115.72 | 3718.17 | -511.59 | -269.12 | 558.80 | 0.00 | 0.00 | 0.00 | |
| 3900.00 | 15.98 | 115.72 | 3814.31 | -534.30 | -281.06 | 583.60 | 0.00 | 0.00 | 0.00 | |
| 4000.00 | 15.98 | 115.72 | 3910.45 | -557.00 | -293.01 | 608.40 | 0.00 | 0.00 | 0.00 | |
| 4100.00 | 15.98 | 115.72 | 4006.58 | -579.71 | -304.95 | 633.20 | 0.00 | 0.00 | 0.00 | |
| 4200.00 | 15.98 | 115.72 | 4102.72 | -602.41 | -316.90 | 658.00 | 0.00 | 0.00 | 0.00 | |
| 4300.00 | 15.98 | 115.72 | 4198.86 | -625.12 | -328.84 | 682.80 | 0.00 | 0.00 | 0.00 | |
| 4400.00 | 15.98 | 115.72 | 4294.99 | -647.82 | -340.78 | 707.60 | 0.00 | 0.00 | 0.00 | |
| 4500.00 | 15.98 | 115.72 | 4391.13 | -670.53 | -352.73 | 732.40 | 0.00 | 0.00 | 0.00 | |
| 4600.00 | 15.98 | 115.72 | 4487.27 | -693.23 | -364.67 | 757.20 | 0.00 | 0.00 | 0.00 | |
| 4700.00 | 15.98 | 115.72 | 4583.40 | -715.94 | -376.62 | 782.00 | 0.00 | 0.00 | 0.00 | |
| 4800.00 | 15.98 | 115.72 | 4679.54 | -738.65 | -388.56 | 806.80 | 0.00 | 0.00 | 0.00 | |
| 4900.00 | 15.98 | 115.72 | 4775.68 | -761.35 | -400.51 | 831.60 | 0.00 | 0.00 | 0.00 | |
| 5000.00 | 15.98 | 115.72 | 4871.81 | -784.06 | -412.45 | 856.40 | 0.00 | 0.00 | 0.00 | |
| 5100.00 | 15.98 | 115.72 | 4967.95 | -806.76 | -424.39 | 881.20 | 0.00 | 0.00 | 0.00 | |

5D Plan Report

| Interpolated Points: (Relative to Slot centre)(TVD relative to Drill Floor) | | | | | | | | | | Comment |
|---|------------|-----------|----------------|---------------|----------------------|----------------------|-------------------------|-------------------------|---------------------|---------------|
| MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | VS (US ft) | N. Offset (US ft) | E. Offset (US ft) | B. Rate (°/100US ft) | T. Rate (°/100US ft) | DLS (°/100US ft) | |
| 5200.00 | 15.98 | 115.72 | 5064.09 | -829.47 | -436.34 | 906.00 | 0.00 | 0.00 | 0.00 | |
| 5300.00 | 15.98 | 115.72 | 5160.22 | -852.17 | -448.28 | 930.80 | 0.00 | 0.00 | 0.00 | |
| 5400.00 | 15.98 | 115.72 | 5256.36 | -874.88 | -460.23 | 955.61 | 0.00 | 0.00 | 0.00 | |
| 5500.00 | 15.98 | 115.72 | 5352.50 | -897.58 | -472.17 | 980.41 | 0.00 | 0.00 | 0.00 | |
| 5600.00 | 15.98 | 115.72 | 5448.63 | -920.29 | -484.11 | 1005.21 | 0.00 | 0.00 | 0.00 | |
| 5700.00 | 15.98 | 115.72 | 5544.77 | -942.99 | -496.06 | 1030.01 | 0.00 | 0.00 | 0.00 | |
| 5800.00 | 15.98 | 115.72 | 5640.91 | -965.70 | -508.00 | 1054.81 | 0.00 | 0.00 | 0.00 | |
| 5900.00 | 15.98 | 115.72 | 5737.04 | -988.41 | -519.95 | 1079.61 | 0.00 | 0.00 | 0.00 | |
| 6000.00 | 15.98 | 115.72 | 5833.18 | -1011.11 | -531.89 | 1104.41 | 0.00 | 0.00 | 0.00 | |
| 6100.00 | 15.98 | 115.72 | 5929.32 | -1033.82 | -543.83 | 1129.21 | 0.00 | 0.00 | 0.00 | |
| 6200.00 | 15.98 | 115.72 | 6025.45 | -1056.52 | -555.78 | 1154.01 | 0.00 | 0.00 | 0.00 | |
| 6300.00 | 15.98 | 115.72 | 6121.59 | -1079.23 | -567.72 | 1178.81 | 0.00 | 0.00 | 0.00 | |
| 6398.12 | 15.98 | 115.72 | 6215.92 | -1101.51 | -579.44 | 1203.14 | 0.00 | 0.00 | 0.00 | Curve KOP |
| 6400.00 | 15.85 | 115.99 | 6217.73 | -1101.93 | -579.67 | 1203.61 | -6.95 | 14.45 | 8.00 | |
| 6500.00 | 9.73 | 140.14 | 6315.27 | -1117.55 | -592.16 | 1221.33 | -6.11 | 24.16 | 8.00 | |
| 6600.00 | 8.09 | 192.68 | 6414.21 | -1119.36 | -605.54 | 1225.20 | -1.64 | 52.54 | 8.00 | |
| 6700.00 | 12.79 | 230.00 | 6512.63 | -1107.32 | -619.54 | 1215.17 | 4.69 | 37.32 | 8.00 | |
| 6800.00 | 19.72 | 244.65 | 6608.62 | -1081.66 | -633.90 | 1191.41 | 6.93 | 14.66 | 8.00 | |
| 6900.00 | 27.22 | 251.69 | 6700.30 | -1042.88 | -648.33 | 1154.39 | 7.51 | 7.03 | 8.00 | |
| 7000.00 | 34.94 | 255.82 | 6785.89 | -991.74 | -662.55 | 1104.84 | 7.71 | 4.14 | 8.00 | |
| 7100.00 | 42.75 | 258.61 | 6863.72 | -929.24 | -676.29 | 1043.71 | 7.81 | 2.79 | 8.00 | |
| 7200.00 | 50.60 | 260.67 | 6932.29 | -856.58 | -689.28 | 972.19 | 7.86 | 2.06 | 8.00 | |
| 7300.00 | 58.49 | 262.31 | 6990.25 | -775.19 | -701.27 | 891.69 | 7.89 | 1.64 | 8.00 | |
| 7400.00 | 66.40 | 263.70 | 7036.47 | -686.65 | -712.02 | 803.76 | 7.91 | 1.39 | 8.00 | |
| 7500.00 | 74.31 | 264.93 | 7070.07 | -592.68 | -721.32 | 710.12 | 7.92 | 1.23 | 8.00 | |
| 7600.00 | 82.24 | 266.06 | 7090.37 | -495.11 | -728.99 | 612.59 | 7.92 | 1.13 | 8.00 | |
| 7697.96 | 90.00 | 267.13 | 7097.00 | -397.87 | -734.79 | 515.10 | 7.93 | 1.09 | 8.00 | Landing Point |
| 7700.00 | 90.00 | 267.13 | 7097.00 | -395.84 | -734.89 | 513.07 | 0.00 | 0.00 | 0.00 | |
| 7800.00 | 90.00 | 267.13 | 7097.00 | -296.36 | -739.90 | 413.19 | 0.00 | 0.00 | 0.00 | |
| 7900.00 | 90.00 | 267.13 | 7097.00 | -196.88 | -744.91 | 313.32 | 0.00 | 0.00 | 0.00 | |
| 8000.00 | 90.00 | 267.13 | 7097.00 | -97.40 | -749.91 | 213.44 | 0.00 | 0.00 | 0.00 | |
| 8100.00 | 90.00 | 267.13 | 7097.00 | 2.08 | -754.92 | 113.57 | 0.00 | 0.00 | 0.00 | |
| 8200.00 | 90.00 | 267.13 | 7097.00 | 101.56 | -759.92 | 13.69 | 0.00 | 0.00 | 0.00 | |
| 8300.00 | 90.00 | 267.13 | 7097.00 | 201.04 | -764.93 | -86.18 | 0.00 | 0.00 | 0.00 | |
| 8400.00 | 90.00 | 267.13 | 7097.00 | 300.52 | -769.94 | -186.06 | 0.00 | 0.00 | 0.00 | |
| 8500.00 | 90.00 | 267.13 | 7097.00 | 400.00 | -774.94 | -285.93 | 0.00 | 0.00 | 0.00 | |
| 8600.00 | 90.00 | 267.13 | 7097.00 | 499.48 | -779.95 | -385.81 | 0.00 | 0.00 | 0.00 | |
| 8700.00 | 90.00 | 267.13 | 7097.00 | 598.96 | -784.96 | -485.68 | 0.00 | 0.00 | 0.00 | |
| 8800.00 | 90.00 | 267.13 | 7097.00 | 698.44 | -789.96 | -585.56 | 0.00 | 0.00 | 0.00 | |
| 8900.00 | 90.00 | 267.13 | 7097.00 | 797.92 | -794.97 | -685.43 | 0.00 | 0.00 | 0.00 | |
| 9000.00 | 90.00 | 267.13 | 7097.00 | 897.41 | -799.97 | -785.30 | 0.00 | 0.00 | 0.00 | |
| 9100.00 | 90.00 | 267.13 | 7097.00 | 996.89 | -804.98 | -885.18 | 0.00 | 0.00 | 0.00 | |
| 9200.00 | 90.00 | 267.13 | 7097.00 | 1096.37 | -809.99 | -985.05 | 0.00 | 0.00 | 0.00 | |
| 9300.00 | 90.00 | 267.13 | 7097.00 | 1195.85 | -814.99 | -1084.93 | 0.00 | 0.00 | 0.00 | |
| 9400.00 | 90.00 | 267.13 | 7097.00 | 1295.33 | -820.00 | -1184.80 | 0.00 | 0.00 | 0.00 | |
| 9500.00 | 90.00 | 267.13 | 7097.00 | 1394.81 | -825.01 | -1284.68 | 0.00 | 0.00 | 0.00 | |
| 9600.00 | 90.00 | 267.13 | 7097.00 | 1494.29 | -830.01 | -1384.55 | 0.00 | 0.00 | 0.00 | |
| 9700.00 | 90.00 | 267.13 | 7097.00 | 1593.77 | -835.02 | -1484.43 | 0.00 | 0.00 | 0.00 | |
| 9800.00 | 90.00 | 267.13 | 7097.00 | 1693.25 | -840.02 | -1584.30 | 0.00 | 0.00 | 0.00 | |
| 9900.00 | 90.00 | 267.13 | 7097.00 | 1792.73 | -845.03 | -1684.18 | 0.00 | 0.00 | 0.00 | |
| 10000.00 | 90.00 | 267.13 | 7097.00 | 1892.21 | -850.04 | -1784.05 | 0.00 | 0.00 | 0.00 | |
| 10100.00 | 90.00 | 267.13 | 7097.00 | 1991.69 | -855.04 | -1883.93 | 0.00 | 0.00 | 0.00 | |
| 10200.00 | 90.00 | 267.13 | 7097.00 | 2091.17 | -860.05 | -1983.80 | 0.00 | 0.00 | 0.00 | |
| 10300.00 | 90.00 | 267.13 | 7097.00 | 2190.65 | -865.06 | -2083.67 | 0.00 | 0.00 | 0.00 | |
| 10400.00 | 90.00 | 267.13 | 7097.00 | 2290.13 | -870.06 | -2183.55 | 0.00 | 0.00 | 0.00 | |
| 10500.00 | 90.00 | 267.13 | 7097.00 | 2389.62 | -875.07 | -2283.42 | 0.00 | 0.00 | 0.00 | |
| 10600.00 | 90.00 | 267.13 | 7097.00 | 2489.10 | -880.07 | -2383.30 | 0.00 | 0.00 | 0.00 | |
| 10700.00 | 90.00 | 267.13 | 7097.00 | 2588.58 | -885.08 | -2483.17 | 0.00 | 0.00 | 0.00 | |
| 10800.00 | 90.00 | 267.13 | 7097.00 | 2688.06 | -890.09 | -2583.05 | 0.00 | 0.00 | 0.00 | |

5D Plan Report

| Interpolated Points: (Relative to Slot centre)(TVD relative to Drill Floor) | | | | | | | | | | Comment |
|---|------------|-----------|----------------|---------------|---------------------|---------------------|------------------------|------------------------|---------------------|---------------|
| MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | VS (US ft) | N.Offset (US ft) | E.Offset (US ft) | B.Rate (°/100US ft) | T.Rate (°/100US ft) | DLS (°/100US ft) | |
| 10900.00 | 90.00 | 267.13 | 7097.00 | 2787.54 | -895.09 | -2682.92 | 0.00 | 0.00 | 0.00 | |
| 11000.00 | 90.00 | 267.13 | 7097.00 | 2887.02 | -900.10 | -2782.80 | 0.00 | 0.00 | 0.00 | |
| 11100.00 | 90.00 | 267.13 | 7097.00 | 2986.50 | -905.11 | -2882.67 | 0.00 | 0.00 | 0.00 | |
| 11200.00 | 90.00 | 267.13 | 7097.00 | 3085.98 | -910.11 | -2982.55 | 0.00 | 0.00 | 0.00 | |
| 11300.00 | 90.00 | 267.13 | 7097.00 | 3185.46 | -915.12 | -3082.42 | 0.00 | 0.00 | 0.00 | |
| 11400.00 | 90.00 | 267.13 | 7097.00 | 3284.94 | -920.12 | -3182.30 | 0.00 | 0.00 | 0.00 | |
| 11500.00 | 90.00 | 267.13 | 7097.00 | 3384.42 | -925.13 | -3282.17 | 0.00 | 0.00 | 0.00 | |
| 11600.00 | 90.00 | 267.13 | 7097.00 | 3483.90 | -930.14 | -3382.04 | 0.00 | 0.00 | 0.00 | |
| 11700.00 | 90.00 | 267.13 | 7097.00 | 3583.38 | -935.14 | -3481.92 | 0.00 | 0.00 | 0.00 | |
| 11800.00 | 90.00 | 267.13 | 7097.00 | 3682.86 | -940.15 | -3581.79 | 0.00 | 0.00 | 0.00 | |
| 11900.00 | 90.00 | 267.13 | 7097.00 | 3782.35 | -945.16 | -3681.67 | 0.00 | 0.00 | 0.00 | |
| 12000.00 | 90.00 | 267.13 | 7097.00 | 3881.83 | -950.16 | -3781.54 | 0.00 | 0.00 | 0.00 | |
| 12100.00 | 90.00 | 267.13 | 7097.00 | 3981.31 | -955.17 | -3881.42 | 0.00 | 0.00 | 0.00 | |
| 12200.00 | 90.00 | 267.13 | 7097.00 | 4080.79 | -960.17 | -3981.29 | 0.00 | 0.00 | 0.00 | |
| 12300.00 | 90.00 | 267.13 | 7097.00 | 4180.27 | -965.18 | -4081.17 | 0.00 | 0.00 | 0.00 | |
| 12400.00 | 90.00 | 267.13 | 7097.00 | 4279.75 | -970.19 | -4181.04 | 0.00 | 0.00 | 0.00 | |
| 12500.00 | 90.00 | 267.13 | 7097.00 | 4379.23 | -975.19 | -4280.92 | 0.00 | 0.00 | 0.00 | |
| 12600.00 | 90.00 | 267.13 | 7097.00 | 4478.71 | -980.20 | -4380.79 | 0.00 | 0.00 | 0.00 | |
| 12700.00 | 90.00 | 267.13 | 7097.00 | 4578.19 | -985.21 | -4480.66 | 0.00 | 0.00 | 0.00 | |
| 12800.00 | 90.00 | 267.13 | 7097.00 | 4677.67 | -990.21 | -4580.54 | 0.00 | 0.00 | 0.00 | |
| 12900.00 | 90.00 | 267.13 | 7097.00 | 4777.15 | -995.22 | -4680.41 | 0.00 | 0.00 | 0.00 | |
| 13000.00 | 90.00 | 267.13 | 7097.00 | 4876.63 | -1000.22 | -4780.29 | 0.00 | 0.00 | 0.00 | |
| 13100.00 | 90.00 | 267.13 | 7097.00 | 4976.11 | -1005.23 | -4880.16 | 0.00 | 0.00 | 0.00 | |
| 13200.00 | 90.00 | 267.13 | 7097.00 | 5075.59 | -1010.24 | -4980.04 | 0.00 | 0.00 | 0.00 | |
| 13300.00 | 90.00 | 267.13 | 7097.00 | 5175.08 | -1015.24 | -5079.91 | 0.00 | 0.00 | 0.00 | |
| 13400.00 | 90.00 | 267.13 | 7097.00 | 5274.56 | -1020.25 | -5179.79 | 0.00 | 0.00 | 0.00 | |
| 13500.00 | 90.00 | 267.13 | 7097.00 | 5374.04 | -1025.26 | -5279.66 | 0.00 | 0.00 | 0.00 | |
| 13600.00 | 90.00 | 267.13 | 7097.00 | 5473.52 | -1030.26 | -5379.54 | 0.00 | 0.00 | 0.00 | |
| 13700.00 | 90.00 | 267.13 | 7097.00 | 5573.00 | -1035.27 | -5479.41 | 0.00 | 0.00 | 0.00 | |
| 13800.00 | 90.00 | 267.13 | 7097.00 | 5672.48 | -1040.27 | -5579.29 | 0.00 | 0.00 | 0.00 | |
| 13900.00 | 90.00 | 267.13 | 7097.00 | 5771.96 | -1045.28 | -5679.16 | 0.00 | 0.00 | 0.00 | |
| 14000.00 | 90.00 | 267.13 | 7097.00 | 5871.44 | -1050.29 | -5779.03 | 0.00 | 0.00 | 0.00 | |
| 14100.00 | 90.00 | 267.13 | 7097.00 | 5970.92 | -1055.29 | -5878.91 | 0.00 | 0.00 | 0.00 | |
| 14200.00 | 90.00 | 267.13 | 7097.00 | 6070.40 | -1060.30 | -5978.78 | 0.00 | 0.00 | 0.00 | |
| 14300.00 | 90.00 | 267.13 | 7097.00 | 6169.88 | -1065.31 | -6078.66 | 0.00 | 0.00 | 0.00 | |
| 14400.00 | 90.00 | 267.13 | 7097.00 | 6269.36 | -1070.31 | -6178.53 | 0.00 | 0.00 | 0.00 | |
| 14500.00 | 90.00 | 267.13 | 7097.00 | 6368.84 | -1075.32 | -6278.41 | 0.00 | 0.00 | 0.00 | |
| 14600.00 | 90.00 | 267.13 | 7097.00 | 6468.32 | -1080.32 | -6378.28 | 0.00 | 0.00 | 0.00 | |
| 14700.00 | 90.00 | 267.13 | 7097.00 | 6567.80 | -1085.33 | -6478.16 | 0.00 | 0.00 | 0.00 | |
| 14800.00 | 90.00 | 267.13 | 7097.00 | 6667.29 | -1090.34 | -6578.03 | 0.00 | 0.00 | 0.00 | |
| 14900.00 | 90.00 | 267.13 | 7097.00 | 6766.77 | -1095.34 | -6677.91 | 0.00 | 0.00 | 0.00 | |
| 15000.00 | 90.00 | 267.13 | 7097.00 | 6866.25 | -1100.35 | -6777.78 | 0.00 | 0.00 | 0.00 | |
| 15100.00 | 90.00 | 267.13 | 7097.00 | 6965.73 | -1105.36 | -6877.66 | 0.00 | 0.00 | 0.00 | |
| 15200.00 | 90.00 | 267.13 | 7097.00 | 7065.21 | -1110.36 | -6977.53 | 0.00 | 0.00 | 0.00 | |
| 15300.00 | 90.00 | 267.13 | 7097.00 | 7164.69 | -1115.37 | -7077.40 | 0.00 | 0.00 | 0.00 | |
| 15400.00 | 90.00 | 267.13 | 7097.00 | 7264.17 | -1120.37 | -7177.28 | 0.00 | 0.00 | 0.00 | |
| 15500.00 | 90.00 | 267.13 | 7097.00 | 7363.65 | -1125.38 | -7277.15 | 0.00 | 0.00 | 0.00 | |
| 15600.00 | 90.00 | 267.13 | 7097.00 | 7463.13 | -1130.39 | -7377.03 | 0.00 | 0.00 | 0.00 | |
| 15600.60 | 90.00 | 267.13 | 7097.00 | 7463.73 | -1130.42 | -7377.63 | 0.00 | 0.00 | 0.00 | PBHL 33C-30-M |



Synergy Resources

Field Name: *CO N - NAD 83*
Site Name: *Goetzel 25-29 Pad*
Well Name: *Goetzel 33C-30-M*

5 December 2016

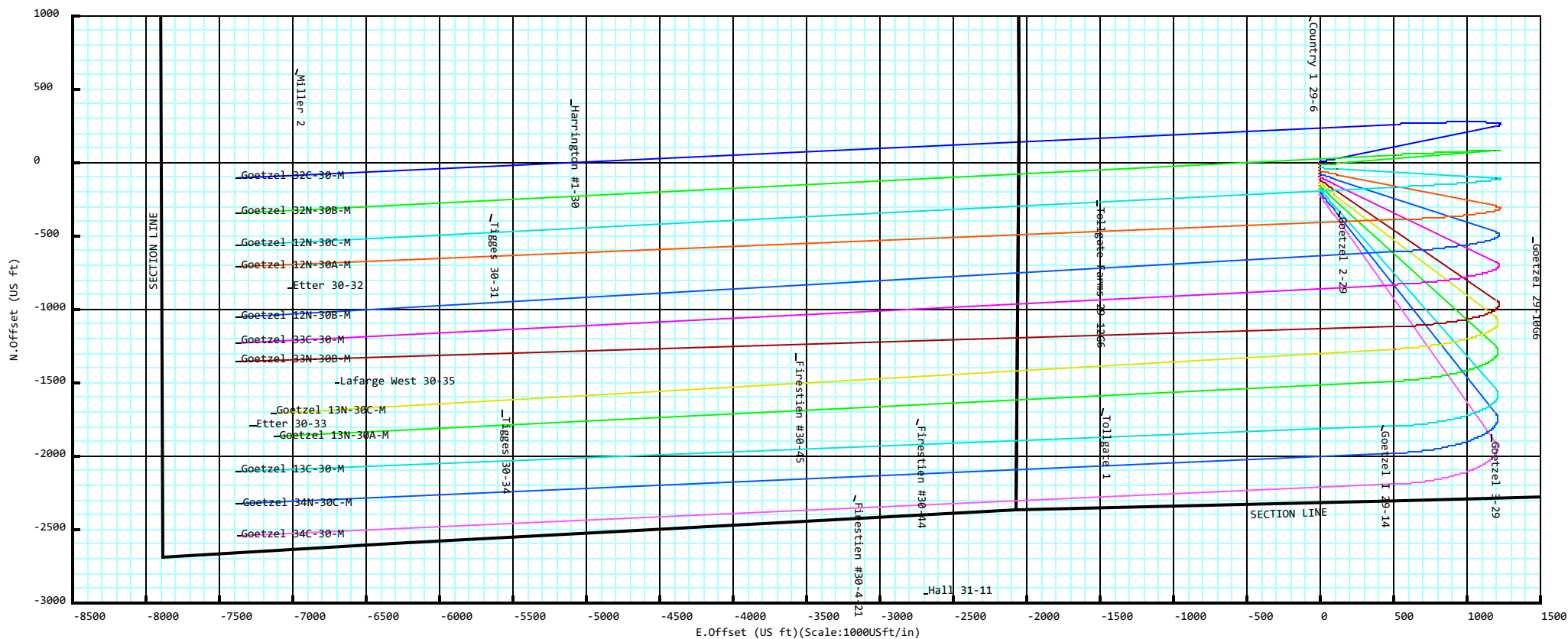




Goetzel Pad
Weld County, CO
Precision 562

Drawing By: GWR Date: 12/05/2016
Weatherford Drilling Services
7725 W. Reno, Ste. #220
Oklahoma City, OK 73127
+1.405.773.1100 Main
+1.405.773.1887 Fax

| | |
|------------------------|--|
| Goetzel 32C-30-M | |
| Goetzel 32N-30B-M | |
| Goetzel 12N-30C-M | |
| Goetzel 12N-30A-M | |
| Goetzel 12N-30B-M | |
| Goetzel 33C-30-M | |
| Goetzel 33N-30B-M | |
| Goetzel 13N-30C-M | |
| Goetzel 13N-30A-M | |
| Goetzel 13C-30-M | |
| Goetzel 34N-30C-M | |
| Goetzel 34C-30-M | |
| Von Trotha Bros Inc #1 | |
| Harrington #1-30 | |
| Goetzel 2-29 | |
| Goetzel 3-29 | |
| Miller 2 | |
| Tollgate 1 | |
| Tollgate Farms 29-12G6 | |
| Goetzel 29-10G6 | |
| Tigges 30-31 | |
| Etter 30-32 | |
| Etter 30-33 | |
| Tigges 30-34 | |
| Hall 31-11 | |
| Goetzel I 29-14 | |
| Firestien #30-45 | |
| Firestien #30-4-21 | |
| Country 1 29-6 | |
| Firestien #30-44 | |
| Lafarge West 30-35 | |
| Feuerstein #I2963HN | |



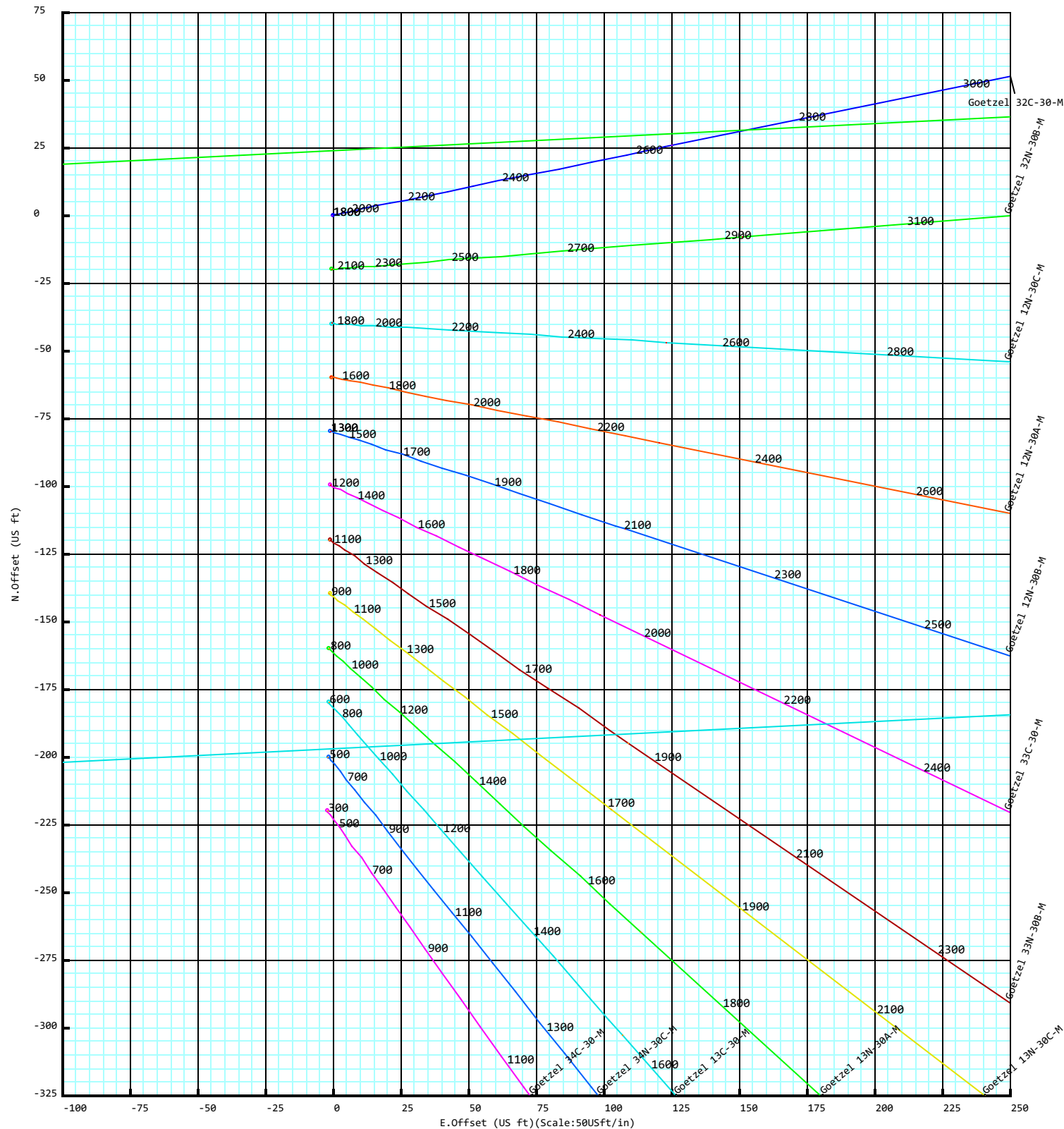


Goetzl Pad Weld County, CO Precision 562

- Goetzl 32C-30-M
- Goetzl 32N-30B-M
- Goetzl 12N-30C-M
- Goetzl 12N-30A-M
- Goetzl 12N-30B-M
- Goetzl 33C-30-M
- Goetzl 33N-30B-M
- Goetzl 13N-30C-M
- Goetzl 13N-30A-M
- Goetzl 13C-30-M
- Goetzl 34N-30C-M
- Goetzl 34C-30-M



Drawing By: GWR Date: 12/05/2016
Weatherford Drilling Services
7725 W. Reno, Ste. #220
Oklahoma City, OK 73127
+1.405.773.1100 Main
+1.405.773.1887 Fax



Goetzel 33C-30-M

| | | | | |
|----------------------------------|--|----------------------------|---------------------------------|---------------------------|
| Field Name: CO N - NAD 83 | Map Units: US ft | | Company Name: Synergy Resources | |
| | Vertical Reference Datum (VRD): Mean Sea Level | | | |
| | Projected Coordinate System: NAD83 / Colorado North (ftUS) | | | |
| | Comment: | | | |
| Site: Goetzel 25-29 Pad | Units: US ft | North Reference: True | | Convergence Angle: 0.45 |
| | Position: | Northing: 1410483.05 US ft | | Latitude: 40.458092000 |
| | | Easting: 3193637.83 US ft | | Longitude: -104.804134000 |
| | Elevation above MSL:4732.00 US ft | | | |
| Comment: | | | | |
| Slot: Goetzel 33C-30-M | Position (Relative to Site Centre) | | | |
| | +N/-S: -99.82 US ft | Northing: 1410383.22 US ft | | Latitude: 40.457818000 |
| | +E/-W: -0.83 US ft | Easting: 3193637.78 US ft | | Longitude: -104.804137000 |
| | Slot TVD Reference: Ground Elevation | | | |
| | Elevation above MSL: 4732.00 US ft | | | |
| Comment: | | | | |
| Well: Goetzel 33C-30-M | Type:Main well | | UWI: | Plan:Working Plan |
| | File Number: | Comment: | | |
| | Closure Distance:7463.73US ft | | Closure Azimuth:261.29° | |
| | Vertical Section: Position of Origin (Relative to Slot centre) | | | |
| | +N/-S: 0.00 US ft | | +E/-W: 0.00 US ft | Az: 261.29° |
| | Magnetic Parameters: | | | |
| | Model: bggm2016 | Field Strength: 52524.6nT | Declination: 8.46° | Dip: 66.93° |
| | | | Date: 18/Nov/2016 | |

Drill floor: Plan: Working Plan

| | | | |
|--|---|---------------------------|-----------------------|
| Rig Height (Drill Floor): 25.00 US ft | Elevation above MSL: 4757.00 US ft | Inclination: 0.00° | Azimuth: 0.00° |
|--|---|---------------------------|-----------------------|

Collision / Uncertainty Analysis

| Primary Well | Start MD (USFt) | End MD (USFt) | Collision Risk Interval | No. of Std. Deviations in Error Computation |
|----------------------|-----------------|---------------|-------------------------|---|
| Goetzel 33C-30-M (p) | 0.00 | 15600.60 | 100.00 | 2 |

Secondary Well Names:

Goetzel 2-29 (s)
 Tollgate Farms 29-12G6 (s)
 Tigges 30-31 (s)
 Etter 30-32 (s)
 Goetzel 29-10G6 (s)
 Lafarge West 30-35 (s)
 Firestien #30-45 (s)
 Tigges 30-34 (s)
 Firestien #30-44 (s)
 Goetzel 32C-30-M (p)
 Goetzel 32N-30B-M (p)
 Goetzel 12N-30C-M (p)
 Goetzel 12N-30A-M (p)
 Goetzel 12N-30B-M (p)
 Goetzel 33N-30B-M (p)
 Goetzel 13N-30C-M (p)
 Goetzel 13N-30A-M (p)

Secondary Well Names:

Goetzel 13C-30-M (p)
 Goetzel 34N-30C-M (p)
 Goetzel 34C-30-M (p)

Anti-Collision Report Terminology

S.Minor, S.Major: Radii of the ellipse of uncertainty at the current location as seen in the along hole direction.

PHI: Angle between high-side vector and semi-minor axis

TVD Spread: Total TVD range of the ellipsoid of uncertainty at the current location.

ES: Distance between the extremities of the primary and secondary uncertainty ellipsoids in the direction Cr-Cr.

T.Face to Sec: Angle between the Hi-Side vector of the primary well at the current location and line of closest approach between the two wells.

AC Filter Info: No filter has been applied.

Default Survey Tool: MWD

Separation factors calculated using Pedal Curve (Independent Uncertainty). Surface Uncertainty (S.U.) Not Applied. Wellpath created using minimum curvature.

5D Anti-Collision Report

Anti-Collision Summary (TVD relative to Drill Floor)**SF**

| Secondary Well Name | Pri MD (US ft) | Sec MD (US ft) | TVD (US ft) | CC (US ft) | ES (US ft) | SF | Risk |
|----------------------------|----------------|----------------|-------------|------------|------------|------|---------|
| Goetzel 12N-30B-M (p) | 15591.60 | 15440.87 | 7097.00 | 229.48 | -121.94 | 0.65 | SF(Hi) |
| Lafarge West 30-35 (s) | 14943.16 | 7072.00 | 7097.00 | 311.13 | -114.71 | 0.73 | SF(Hi) |
| Goetzel 33N-30B-M (p) | 15600.60 | 15453.09 | 7097.00 | 218.08 | -72.79 | 0.75 | SF(Hi) |
| Firestien #30-45 (s) | 11800.20 | 7072.00 | 7097.00 | 272.31 | -66.81 | 0.80 | SF(Hi) |
| Etter 30-32 (s) | 15236.13 | 7080.00 | 7097.00 | 351.58 | -82.70 | 0.81 | SF(Hi) |
| Goetzel 13N-30C-M (p) | 15399.22 | 15286.68 | 7097.00 | 507.16 | 68.08 | 1.16 | SF(Med) |
| Goetzel 29-10G6 (s) | 6550.00 | 6331.68 | 6364.68 | 295.17 | 76.47 | 1.35 | SF(Med) |
| Goetzel 12N-30A-M (p) | 15584.57 | 15322.07 | 7097.00 | 582.48 | 166.49 | 1.40 | SF(Med) |
| Tigges 30-34 (s) | 13825.00 | 7064.00 | 7097.00 | 555.31 | 160.81 | 1.41 | SF(Med) |
| Goetzel 12N-30C-M (p) | 15577.93 | 15501.26 | 7097.00 | 668.30 | 208.49 | 1.45 | SF(Med) |
| Goetzel 13N-30A-M (p) | 15410.55 | 15136.85 | 7097.00 | 722.23 | 307.11 | 1.74 | SF(Lo) |
| Goetzel 13C-30-M (p) | 15600.60 | 15669.06 | 7097.00 | 877.17 | 414.34 | 1.90 | SF(Lo) |
| Goetzel 32N-30B-M (p) | 15577.73 | 15473.86 | 7097.00 | 894.86 | 435.80 | 1.95 | SF(Lo) |
| Tigges 30-31 (s) | 13853.52 | 7080.00 | 7097.00 | 778.83 | 382.93 | 1.97 | SF(Lo) |
| Goetzel 2-29 (s) | 2523.44 | 2462.93 | 2490.93 | 161.79 | 81.51 | 2.02 | SF(Lo) |
| Tollgate Farms 29-12G6 (s) | 9731.45 | 7070.00 | 7097.00 | 674.16 | 390.50 | 2.38 | SF(Lo) |
| Firestien #30-44 (s) | 11047.66 | 7064.00 | 7097.00 | 762.59 | 444.01 | 2.39 | SF(Lo) |
| Goetzel 34N-30C-M (p) | 15600.60 | 15582.94 | 7097.00 | 1109.47 | 650.11 | 2.42 | SF(Lo) |
| Goetzel 32C-30-M (p) | 15581.84 | 15644.54 | 7097.00 | 1122.55 | 658.89 | 2.42 | SF(Lo) |
| Goetzel 34C-30-M (p) | 15600.60 | 15712.96 | 7097.00 | 1319.94 | 857.84 | 2.86 | |

5D Anti-Collision Report

| CC | | | | | | | | | | | | |
|---|--|---------|----------------|----------------|-----------------|-----------------|-------------------|------------|------------|----------|-----------------------|----------|
| Secondary Well Name | | | Pri MD (US ft) | Sec MD (US ft) | TVD (US ft) | | CC (US ft) | ES (US ft) | SF | Risk | | |
| Goetzel 12N-30B-M (p) | | | 50.00 | 50.00 | 50.00 | | 20.04 | 19.19 | 23.75 | CC (Med) | | |
| Goetzel 33N-30B-M (p) | | | 0.00 | 0.00 | 0.00 | | 20.04 | 19.31 | 27.33 | CC (Med) | | |
| Goetzel 13N-30C-M (p) | | | 0.00 | 0.00 | 0.00 | | 40.07 | 39.34 | 54.65 | CC (Lo) | | |
| Goetzel 12N-30A-M (p) | | | 50.00 | 50.00 | 50.00 | | 40.07 | 39.23 | 47.50 | CC (Lo) | | |
| Goetzel 12N-30C-M (p) | | | 50.00 | 50.00 | 50.00 | | 59.75 | 58.90 | 70.82 | CC (Lo) | | |
| Goetzel 13N-30A-M (p) | | | 0.00 | 0.00 | 0.00 | | 60.11 | 59.38 | 81.97 | CC (Lo) | | |
| Goetzel 32N-30B-M (p) | | | 50.00 | 50.00 | 50.00 | | 79.78 | 78.94 | 94.57 | | | |
| Goetzel 13C-30-M (p) | | | 0.00 | 0.00 | 0.00 | | 80.15 | 79.41 | 109.30 | | | |
| Goetzel 32C-30-M (p) | | | 50.00 | 50.00 | 50.00 | | 99.82 | 98.98 | 118.32 | | | |
| Goetzel 34N-30C-M (p) | | | 0.00 | 0.00 | 0.00 | | 100.19 | 99.45 | 136.62 | | | |
| Goetzel 34C-30-M (p) | | | 0.00 | 0.00 | 0.00 | | 120.22 | 119.49 | 163.95 | | | |
| Goetzel 2-29 (s) | | | 2377.54 | 2322.66 | 2350.66 | | 156.74 | 81.62 | 2.09 | SF(Lo) | | |
| Firestien #30-45 (s) | | | 11800.39 | 7072.00 | 7097.00 | | 272.31 | -66.80 | 0.80 | SF(Hi) | | |
| Goetzel 29-10G6 (s) | | | 6507.23 | 6289.39 | 6322.39 | | 294.03 | 77.08 | 1.36 | SF(Med) | | |
| Lafarge West 30-35 (s) | | | 14942.58 | 7072.00 | 7097.00 | | 311.12 | -114.71 | 0.73 | SF(Hi) | | |
| Etter 30-32 (s) | | | 15229.30 | 7080.00 | 7097.00 | | 351.51 | -82.52 | 0.81 | SF(Hi) | | |
| Tigges 30-34 (s) | | | 13817.97 | 7064.00 | 7097.00 | | 555.26 | 160.84 | 1.41 | SF(Med) | | |
| Tollgate Farms 29-12G6 (s) | | | 9699.22 | 7070.00 | 7097.00 | | 673.40 | 390.71 | 2.38 | SF(Lo) | | |
| Firestien #30-44 (s) | | | 10988.67 | 7064.00 | 7097.00 | | 760.30 | 443.50 | 2.40 | SF(Lo) | | |
| Tigges 30-31 (s) | | | 13825.20 | 7080.00 | 7097.00 | | 778.31 | 383.20 | 1.97 | SF(Lo) | | |
| Primary Well: Goetzel 33C-30-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | | |
| MD (US ft) | | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Nearest Well | Risk |
| 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 359.55 | 20.04 | 19.30 | 27.32 | Goetzel 12N-30B-M (p) | CC (Med) |
| 100.00 | | 0.00 | 0.00 | 100.00 | 0.11 | 0.11 | 359.55 | 20.04 | 19.08 | 21.00 | Goetzel 12N-30B-M (p) | CC (Med) |
| 200.00 | | 0.00 | 0.00 | 200.00 | 0.34 | 0.34 | 359.55 | 20.04 | 18.63 | 14.28 | Goetzel 12N-30B-M (p) | CC (Med) |
| 300.00 | | 0.00 | 0.00 | 300.00 | 0.56 | 0.56 | 359.55 | 20.04 | 18.18 | 10.81 | Goetzel 12N-30B-M (p) | CC (Med) |
| 400.00 | | 0.00 | 0.00 | 400.00 | 0.79 | 0.79 | 359.55 | 20.04 | 17.73 | 8.70 | Goetzel 12N-30B-M (p) | CC (Med) |
| 500.00 | | 0.00 | 0.00 | 500.00 | 1.01 | 1.01 | 359.55 | 20.04 | 17.28 | 7.28 | Goetzel 12N-30B-M (p) | CC (Med) |
| 600.00 | | 0.00 | 0.00 | 600.00 | 1.24 | 1.24 | 359.55 | 20.04 | 16.83 | 6.26 | Goetzel 12N-30B-M (p) | CC (Med) |
| 700.00 | | 0.00 | 0.00 | 700.00 | 1.46 | 1.46 | 359.55 | 20.04 | 16.39 | 5.49 | Goetzel 12N-30B-M (p) | CC (Med) |
| 800.00 | | 0.00 | 0.00 | 800.00 | 1.69 | 1.69 | 359.55 | 20.04 | 15.94 | 4.89 | Goetzel 12N-30B-M (p) | CC (Med) |
| 900.00 | | 0.00 | 0.00 | 900.00 | 1.91 | 1.91 | 359.55 | 20.04 | 15.49 | 4.40 | Goetzel 12N-30B-M (p) | CC (Med) |
| 1000.00 | | 0.00 | 0.00 | 1000.00 | 2.14 | 2.14 | 359.55 | 20.04 | 15.04 | 4.01 | Goetzel 12N-30B-M (p) | CC (Med) |

5D Anti-Collision Report

| Primary Well: Goetzel 33C-30-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
|---|------------|-----------|----------------|--------------------|--------------------|-------------------------|---------------|---------------|------|-----------------------|----------|
| MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Nearest Well | Risk |
| 1100.00 | 0.00 | 0.00 | 1100.00 | 2.36 | 2.36 | 359.55 | 20.04 | 14.59 | 3.68 | Goetzel 12N-30B-M (p) | CC (Med) |
| 1200.00 | 1.00 | 115.27 | 1200.00 | 2.57 | 2.57 | 243.17 | 20.23 | 14.35 | 3.44 | Goetzel 12N-30B-M (p) | CC (Med) |
| 1300.00 | 3.00 | 115.27 | 1299.93 | 2.76 | 2.76 | 235.08 | 22.03 | 15.72 | 3.49 | Goetzel 12N-30B-M (p) | CC (Med) |
| 1400.00 | 5.00 | 115.27 | 1399.68 | 2.97 | 2.95 | 225.70 | 25.56 | 18.87 | 3.82 | Goetzel 12N-30B-M (p) | CC (Med) |
| 1500.00 | 7.00 | 115.27 | 1499.13 | 3.18 | 3.14 | 219.40 | 29.90 | 22.81 | 4.22 | Goetzel 12N-30B-M (p) | CC (Med) |
| 1600.00 | 9.00 | 115.27 | 1598.15 | 3.43 | 3.34 | 215.35 | 34.78 | 27.27 | 4.63 | Goetzel 12N-30B-M (p) | CC (Lo) |
| 1700.00 | 11.00 | 115.27 | 1696.63 | 3.71 | 3.54 | 42.21 | 235.71 | 183.42 | 4.51 | Goetzel 2-29 (s) | |
| 1700.00 | 11.00 | 115.27 | 1696.63 | 3.71 | 3.54 | 212.86 | 40.03 | 32.10 | 5.04 | Goetzel 12N-30B-M (p) | CC (Lo) |
| 1800.00 | 13.00 | 115.27 | 1794.44 | 4.04 | 3.74 | 46.01 | 220.62 | 165.00 | 3.97 | Goetzel 2-29 (s) | |
| 1800.00 | 13.00 | 115.27 | 1794.44 | 4.04 | 3.74 | 211.45 | 45.57 | 37.18 | 5.43 | Goetzel 12N-30B-M (p) | CC (Lo) |
| 1900.00 | 15.00 | 115.27 | 1891.46 | 4.42 | 3.95 | 51.07 | 204.31 | 145.58 | 3.48 | Goetzel 2-29 (s) | |
| 1900.00 | 15.00 | 115.27 | 1891.46 | 4.42 | 3.95 | 210.80 | 51.36 | 42.46 | 5.77 | Goetzel 12N-30B-M (p) | CC (Lo) |
| 2000.00 | 15.98 | 115.27 | 1987.71 | 4.86 | 4.18 | 57.48 | 188.07 | 125.83 | 3.02 | Goetzel 2-29 (s) | |
| 2000.00 | 15.98 | 115.27 | 1987.71 | 4.86 | 4.18 | 210.89 | 56.96 | 47.53 | 6.04 | Goetzel 12N-30B-M (p) | CC (Lo) |
| 2100.00 | 15.98 | 115.27 | 2083.85 | 5.33 | 4.42 | 64.89 | 174.37 | 108.70 | 2.66 | Goetzel 2-29 (s) | |
| 2100.00 | 15.98 | 115.27 | 2083.85 | 5.33 | 4.42 | 212.85 | 60.18 | 50.11 | 5.98 | Goetzel 12N-30B-M (p) | CC (Lo) |
| 2200.00 | 15.98 | 115.27 | 2179.98 | 5.83 | 4.67 | 73.31 | 164.18 | 95.09 | 2.38 | Goetzel 2-29 (s) | SF(Lo) |
| 2200.00 | 15.98 | 115.27 | 2179.98 | 5.83 | 4.67 | 215.80 | 61.99 | 51.16 | 5.72 | Goetzel 12N-30B-M (p) | CC (Lo) |
| 2300.00 | 15.98 | 115.27 | 2276.12 | 6.34 | 4.93 | 82.54 | 158.18 | 85.61 | 2.18 | Goetzel 2-29 (s) | SF(Lo) |
| 2300.00 | 15.98 | 115.27 | 2276.12 | 6.34 | 4.93 | 218.58 | 63.94 | 52.31 | 5.50 | Goetzel 12N-30B-M (p) | CC (Lo) |
| 2400.00 | 15.98 | 115.27 | 2372.26 | 6.86 | 5.19 | 92.17 | 156.86 | 80.80 | 2.06 | Goetzel 2-29 (s) | SF(Lo) |
| 2400.00 | 15.98 | 115.27 | 2372.26 | 6.86 | 5.19 | 221.19 | 66.04 | 53.54 | 5.28 | Goetzel 12N-30B-M (p) | |
| 2500.00 | 15.98 | 115.27 | 2468.39 | 7.40 | 5.45 | 101.68 | 160.32 | 80.88 | 2.02 | Goetzel 2-29 (s) | SF(Lo) |
| 2500.00 | 15.98 | 115.27 | 2468.39 | 7.40 | 5.45 | 223.64 | 68.27 | 54.81 | 5.07 | Goetzel 12N-30B-M (p) | |
| 2600.00 | 15.98 | 115.27 | 2564.53 | 7.95 | 5.72 | 110.58 | 168.27 | 85.63 | 2.04 | Goetzel 2-29 (s) | SF(Lo) |
| 2600.00 | 15.98 | 115.27 | 2564.53 | 7.95 | 5.72 | 225.92 | 70.61 | 56.16 | 4.88 | Goetzel 12N-30B-M (p) | |
| 2700.00 | 15.98 | 115.27 | 2660.67 | 8.50 | 5.99 | 118.56 | 180.12 | 94.39 | 2.10 | Goetzel 2-29 (s) | SF(Lo) |
| 2700.00 | 15.98 | 115.27 | 2660.67 | 8.50 | 5.99 | 228.06 | 73.06 | 57.55 | 4.71 | Goetzel 12N-30B-M (p) | |
| 2800.00 | 15.98 | 115.27 | 2756.81 | 9.06 | 6.26 | 125.50 | 195.15 | 106.08 | 2.19 | Goetzel 2-29 (s) | SF(Lo) |

5D Anti-Collision Report

| Primary Well: Goetzel 33C-30-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
|---|------------|-----------|----------------|--------------------|--------------------|-------------------------|---------------|---------------|------|-----------------------------|--------|
| MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Nearest Well | Risk |
| 2800.00 | 15.98 | 115.27 | 2756.81 | 9.06 | 6.26 | 230.06 | 75.61 | 59.02 | 4.56 | Goetzel 12N-30B-M (p) | |
| 2900.00 | 15.98 | 115.27 | 2852.94 | 9.62 | 6.54 | 131.41 | 212.71 | 120.54 | 2.31 | Goetzel 2- 29 (s) | SF(Lo) |
| 2900.00 | 15.98 | 115.27 | 2852.94 | 9.62 | 6.54 | 231.92 | 78.24 | 60.54 | 4.42 | Goetzel 12N-30B-M (p) | |
| 3000.00 | 15.98 | 115.27 | 2949.08 | 10.18 | 6.82 | 136.42 | 232.20 | 137.02 | 2.44 | Goetzel 2- 29 (s) | SF(Lo) |
| 3000.00 | 15.98 | 115.27 | 2949.08 | 10.18 | 6.82 | 233.66 | 80.94 | 62.11 | 4.30 | Goetzel 12N-30B-M (p) | |
| 3100.00 | 15.98 | 115.27 | 3045.22 | 10.75 | 7.09 | 140.65 | 253.20 | 154.93 | 2.58 | Goetzel 2- 29 (s) | |
| 3100.00 | 15.98 | 115.27 | 3045.22 | 10.75 | 7.09 | 235.29 | 83.72 | 63.76 | 4.19 | Goetzel 12N-30B-M (p) | |
| 3200.00 | 15.98 | 115.27 | 3141.35 | 11.32 | 7.38 | 144.24 | 275.34 | 173.88 | 2.71 | Goetzel 2- 29 (s) | |
| 3200.00 | 15.98 | 115.27 | 3141.35 | 11.32 | 7.38 | 236.81 | 86.56 | 65.42 | 4.10 | Goetzel 12N-30B-M (p) | |
| 3300.00 | 15.98 | 115.27 | 3237.49 | 11.90 | 7.66 | 147.30 | 298.39 | 194.04 | 2.86 | Goetzel 2- 29 (s) | |
| 3300.00 | 15.98 | 115.27 | 3237.49 | 11.90 | 7.66 | 238.23 | 89.46 | 67.14 | 4.01 | Goetzel 12N-30B-M (p) | |
| 3400.00 | 15.98 | 115.27 | 3333.63 | 12.47 | 7.94 | 149.92 | 322.14 | 214.70 | 3.00 | Goetzel 2- 29 (s) | |
| 3400.00 | 15.98 | 115.27 | 3333.63 | 12.47 | 7.94 | 239.56 | 92.40 | 68.90 | 3.93 | Goetzel 12N-30B-M (p) | |
| 3500.00 | 15.98 | 115.27 | 3429.76 | 13.05 | 8.22 | 152.18 | 346.44 | 235.71 | 3.13 | Goetzel 2- 29 (s) | |
| 3500.00 | 15.98 | 115.27 | 3429.76 | 13.05 | 8.22 | 240.81 | 95.40 | 70.72 | 3.86 | Goetzel 12N-30B-M (p) | |
| 3600.00 | 15.98 | 115.27 | 3525.90 | 13.63 | 8.51 | 154.15 | 371.20 | 257.32 | 3.26 | Goetzel 2- 29 (s) | |
| 3600.00 | 15.98 | 115.27 | 3525.90 | 13.63 | 8.51 | 241.99 | 98.44 | 72.55 | 3.80 | Goetzel 12N-30B-M (p) | |
| 3700.00 | 15.98 | 115.27 | 3622.04 | 14.21 | 8.79 | 155.87 | 396.32 | 279.40 | 3.39 | Goetzel 2- 29 (s) | |
| 3700.00 | 15.98 | 115.27 | 3622.04 | 14.21 | 8.79 | 243.09 | 101.51 | 74.41 | 3.75 | Goetzel 12N-30B-M (p) | |
| 3800.00 | 15.98 | 115.27 | 3718.17 | 14.79 | 9.08 | 157.39 | 421.75 | 301.83 | 3.52 | Goetzel 2- 29 (s) | |
| 3800.00 | 15.98 | 115.27 | 3718.17 | 14.79 | 9.08 | 244.13 | 104.63 | 76.31 | 3.70 | Goetzel 12N-30B-M (p) | |
| 3900.00 | 15.98 | 115.27 | 3814.31 | 15.38 | 9.37 | 158.74 | 447.42 | 324.54 | 3.64 | Goetzel 2- 29 (s) | |
| 3900.00 | 15.98 | 115.27 | 3814.31 | 15.38 | 9.37 | 245.11 | 107.77 | 78.24 | 3.65 | Goetzel 12N-30B-M (p) | |
| 4000.00 | 15.98 | 115.27 | 3910.45 | 15.96 | 9.65 | 246.03 | 110.94 | 80.21 | 3.61 | Goetzel 12N-30B-M (p) | |
| 4100.00 | 15.98 | 115.27 | 4006.58 | 16.54 | 9.94 | 246.90 | 114.15 | 82.21 | 3.57 | Goetzel 12N-30B-M (p) | |
| 4200.00 | 15.98 | 115.27 | 4102.72 | 17.13 | 10.23 | 247.72 | 117.37 | 84.20 | 3.54 | Goetzel 12N-30B-M (p) | |
| 4300.00 | 15.98 | 115.27 | 4198.86 | 17.72 | 10.52 | 248.50 | 120.62 | 86.22 | 3.51 | Goetzel 12N-30B-M (p) | |
| 4400.00 | 15.98 | 115.27 | 4294.99 | 18.30 | 10.81 | 249.24 | 123.89 | 88.26 | 3.48 | Goetzel 12N-30B-M (p) | |
| 4500.00 | 15.98 | 115.27 | 4391.13 | 18.89 | 11.10 | 249.94 | 127.18 | 90.32 | 3.45 | | |

5D Anti-Collision Report

| Primary Well: Goetzel 33C-30-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
|---|------------|-----------|----------------|--------------------|--------------------|-------------------------|---------------|---------------|------|-----------------------------|--------|
| MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Nearest Well | Risk |
| 4600.00 | 15.98 | 115.27 | 4487.27 | 19.48 | 11.39 | 250.60 | 130.49 | 92.41 | 3.43 | Goetzel 12N-30B-M (p) | |
| 4700.00 | 15.98 | 115.27 | 4583.40 | 20.07 | 11.68 | 251.23 | 133.81 | 94.51 | 3.40 | Goetzel 12N-30B-M (p) | |
| 4800.00 | 15.98 | 115.27 | 4679.54 | 20.65 | 11.97 | 251.83 | 137.15 | 96.63 | 3.38 | Goetzel 12N-30B-M (p) | |
| 4900.00 | 15.98 | 115.27 | 4775.68 | 21.24 | 12.27 | 252.40 | 140.51 | 98.77 | 3.37 | Goetzel 12N-30B-M (p) | |
| 5000.00 | 15.98 | 115.27 | 4871.81 | 21.83 | 12.56 | 252.95 | 143.87 | 100.92 | 3.35 | Goetzel 12N-30B-M (p) | |
| 5100.00 | 15.98 | 115.27 | 4967.95 | 22.42 | 12.85 | 253.47 | 147.25 | 103.09 | 3.33 | Goetzel 12N-30B-M (p) | |
| 5200.00 | 15.98 | 115.27 | 5064.09 | 23.01 | 13.14 | 331.23 | 551.15 | 384.85 | 3.31 | Goetzel 29- 10G6 (s) | |
| 5200.00 | 15.98 | 115.27 | 5064.09 | 23.01 | 13.14 | 253.97 | 150.64 | 105.27 | 3.32 | Goetzel 12N-30B-M (p) | |
| 5300.00 | 15.98 | 115.27 | 5160.22 | 23.60 | 13.44 | 329.80 | 526.97 | 357.32 | 3.11 | Goetzel 29- 10G6 (s) | |
| 5300.00 | 15.98 | 115.27 | 5160.22 | 23.60 | 13.44 | 254.44 | 154.05 | 107.46 | 3.31 | Goetzel 12N-30B-M (p) | |
| 5400.00 | 15.98 | 115.27 | 5256.36 | 24.19 | 13.73 | 328.24 | 503.13 | 329.98 | 2.91 | Goetzel 29- 10G6 (s) | |
| 5400.00 | 15.98 | 115.27 | 5256.36 | 24.19 | 13.73 | 254.90 | 157.46 | 109.67 | 3.29 | Goetzel 12N-30B-M (p) | |
| 5500.00 | 15.98 | 115.27 | 5352.50 | 24.78 | 14.02 | 326.53 | 479.68 | 302.60 | 2.71 | Goetzel 29- 10G6 (s) | |
| 5500.00 | 15.98 | 115.27 | 5352.50 | 24.78 | 14.02 | 255.33 | 160.88 | 111.88 | 3.28 | Goetzel 12N-30B-M (p) | |
| 5600.00 | 15.98 | 115.27 | 5448.63 | 25.37 | 14.32 | 324.65 | 456.69 | 275.76 | 2.52 | Goetzel 29- 10G6 (s) | |
| 5600.00 | 15.98 | 115.27 | 5448.63 | 25.37 | 14.32 | 255.75 | 164.31 | 114.09 | 3.27 | Goetzel 12N-30B-M (p) | |
| 5700.00 | 15.98 | 115.27 | 5544.77 | 25.97 | 14.61 | 322.57 | 434.22 | 249.60 | 2.35 | Goetzel 29- 10G6 (s) | SF(Lo) |
| 5700.00 | 15.98 | 115.27 | 5544.77 | 25.97 | 14.61 | 256.15 | 167.75 | 116.30 | 3.26 | Goetzel 12N-30B-M (p) | |
| 5800.00 | 15.98 | 115.27 | 5640.91 | 26.56 | 14.90 | 320.29 | 412.37 | 224.17 | 2.19 | Goetzel 29- 10G6 (s) | SF(Lo) |
| 5800.00 | 15.98 | 115.27 | 5640.91 | 26.56 | 14.90 | 256.53 | 171.20 | 118.53 | 3.25 | Goetzel 12N-30B-M (p) | |
| 5900.00 | 15.98 | 115.27 | 5737.04 | 27.15 | 15.20 | 317.75 | 391.24 | 199.27 | 2.04 | Goetzel 29- 10G6 (s) | SF(Lo) |
| 5900.00 | 15.98 | 115.27 | 5737.04 | 27.15 | 15.20 | 256.90 | 174.65 | 120.77 | 3.24 | Goetzel 12N-30B-M (p) | |
| 6000.00 | 15.98 | 115.27 | 5833.18 | 27.74 | 15.49 | 314.95 | 370.95 | 174.62 | 1.89 | Goetzel 29- 10G6 (s) | SF(Lo) |
| 6000.00 | 15.98 | 115.27 | 5833.18 | 27.74 | 15.49 | 257.26 | 178.11 | 123.01 | 3.23 | Goetzel 12N-30B-M (p) | |
| 6100.00 | 15.98 | 115.27 | 5929.32 | 28.33 | 15.79 | 311.84 | 351.64 | 151.35 | 1.76 | Goetzel 29- 10G6 (s) | SF(Lo) |
| 6100.00 | 15.98 | 115.27 | 5929.32 | 28.33 | 15.79 | 257.60 | 181.58 | 125.26 | 3.22 | Goetzel 12N-30B-M (p) | |
| 6200.00 | 15.98 | 115.27 | 6025.45 | 28.92 | 16.08 | 308.40 | 333.49 | 129.59 | 1.64 | Goetzel 29- 10G6 (s) | SF(Lo) |
| 6200.00 | 15.98 | 115.27 | 6025.45 | 28.92 | 16.08 | 257.92 | 185.05 | 127.52 | 3.22 | | |

5D Anti-Collision Report

| Primary Well: Goetzel 33C-30-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
|---|------------|-----------|----------------|--------------------|--------------------|-------------------------|---------------|---------------|------|--|---------|
| MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Nearest Well | Risk |
| 6300.00 | 15.98 | 115.27 | 6121.59 | 29.52 | 16.37 | 304.59 | 316.69 | 107.96 | 1.52 | Goetzel 12N-30B-M (p) Goetzel 29-10G6 (s) | SF(Lo) |
| 6300.00 | 15.98 | 115.27 | 6121.59 | 29.52 | 16.37 | 256.54 | 186.94 | 128.55 | 3.20 | Goetzel 12N-30B-M (p) | |
| 6400.00 | 15.85 | 115.54 | 6217.73 | 30.11 | 16.67 | 300.16 | 301.48 | 88.82 | 1.42 | Goetzel 29-10G6 (s) | SF(Med) |
| 6400.00 | 15.85 | 115.54 | 6217.73 | 30.11 | 16.67 | 250.43 | 185.70 | 127.50 | 3.19 | Goetzel 12N-30B-M (p) | |
| 6500.00 | 9.73 | 139.69 | 6315.27 | 30.39 | 16.87 | 273.01 | 294.07 | 77.42 | 1.36 | Goetzel 29-10G6 (s) | SF(Med) |
| 6500.00 | 9.73 | 139.69 | 6315.27 | 30.39 | 16.87 | 219.09 | 185.79 | 129.13 | 3.28 | Goetzel 12N-30B-M (p) | |
| 6600.00 | 8.09 | 192.23 | 6414.21 | 30.37 | 16.81 | 218.30 | 299.26 | 78.72 | 1.36 | Goetzel 29-10G6 (s) | SF(Med) |
| 6600.00 | 8.09 | 192.23 | 6414.21 | 30.37 | 16.81 | 159.57 | 189.17 | 134.64 | 3.47 | Goetzel 12N-30B-M (p) | |
| 6700.00 | 12.79 | 229.55 | 6512.63 | 30.10 | 16.49 | 179.89 | 315.93 | 92.16 | 1.41 | Goetzel 29-10G6 (s) | SF(Med) |
| 6700.00 | 12.79 | 229.55 | 6512.63 | 30.10 | 16.49 | 115.79 | 195.41 | 143.43 | 3.76 | Goetzel 12N-30B-M (p) | |
| 6800.00 | 19.72 | 244.20 | 6608.62 | 29.61 | 15.91 | 165.12 | 343.38 | 116.78 | 1.52 | Goetzel 29-10G6 (s) | SF(Lo) |
| 6800.00 | 19.72 | 244.20 | 6608.62 | 29.61 | 15.91 | 95.40 | 203.83 | 154.46 | 4.13 | Goetzel 12N-30B-M (p) | |
| 6900.00 | 27.22 | 251.24 | 6700.30 | 28.99 | 15.08 | 158.59 | 381.34 | 152.44 | 1.67 | Goetzel 29-10G6 (s) | SF(Lo) |
| 6900.00 | 27.22 | 251.24 | 6700.30 | 28.99 | 15.08 | 83.47 | 213.65 | 166.57 | 4.54 | Goetzel 12N-30B-M (p) | |
| 7000.00 | 34.94 | 255.37 | 6785.89 | 28.32 | 14.03 | 155.10 | 429.72 | 199.26 | 1.86 | Goetzel 29-10G6 (s) | SF(Lo) |
| 7000.00 | 34.94 | 255.37 | 6785.89 | 28.32 | 14.03 | 75.28 | 224.11 | 178.90 | 4.96 | Goetzel 12N-30B-M (p) | |
| 7100.00 | 42.75 | 258.16 | 6863.72 | 27.68 | 12.81 | 152.62 | 488.25 | 255.54 | 2.10 | Goetzel 29-10G6 (s) | SF(Lo) |
| 7100.00 | 42.75 | 258.16 | 6863.72 | 27.68 | 12.81 | 69.25 | 234.50 | 190.79 | 5.36 | Goetzel 12N-30B-M (p) | |
| 7200.00 | 50.60 | 260.22 | 6932.29 | 27.17 | 11.53 | 150.04 | 556.34 | 321.92 | 2.37 | Goetzel 29-10G6 (s) | SF(Lo) |
| 7200.00 | 50.60 | 260.22 | 6932.29 | 27.17 | 11.53 | 64.68 | 244.27 | 201.48 | 5.71 | Goetzel 12N-30B-M (p) | |
| 7300.00 | 58.49 | 261.86 | 6990.25 | 26.87 | 10.36 | 146.47 | 633.02 | 397.71 | 2.69 | Goetzel 29-10G6 (s) | |
| 7300.00 | 58.49 | 261.86 | 6990.25 | 26.87 | 10.36 | 61.22 | 252.94 | 210.44 | 5.95 | Goetzel 12N-30B-M (p) | |
| 7400.00 | 66.40 | 263.25 | 7036.47 | 26.85 | 9.54 | 140.80 | 716.99 | 481.44 | 3.04 | Goetzel 29-10G6 (s) | |
| 7400.00 | 66.40 | 263.25 | 7036.47 | 26.85 | 9.54 | 58.63 | 260.15 | 217.34 | 6.08 | Goetzel 12N-30B-M (p) | |
| 7500.00 | 74.31 | 264.48 | 7070.07 | 27.14 | 9.32 | 74.93 | 747.36 | 516.41 | 3.24 | Goetzel 2-29 (s) | |
| 7500.00 | 74.31 | 264.48 | 7070.07 | 27.14 | 9.32 | 56.79 | 265.62 | 221.61 | 6.04 | Goetzel 12N-30B-M (p) | |
| 7600.00 | 82.24 | 265.61 | 7090.37 | 27.73 | 9.84 | 83.48 | 681.10 | 448.66 | 2.93 | Goetzel 2-29 (s) | |
| 7600.00 | 82.24 | 265.61 | 7090.37 | 27.73 | 9.84 | 55.61 | 269.17 | 223.59 | 5.90 | Goetzel 12N-30B-M (p) | |

5D Anti-Collision Report

| Primary Well: Goetzel 33C-30-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
|---|------------|-----------|----------------|--------------------|--------------------|-------------------------|---------------|---------------|------|-----------------------------|--------|
| MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Nearest Well | Risk |
| 7700.00 | 90.00 | 266.68 | 7097.00 | 28.59 | 11.01 | 90.00 | 620.60 | 385.32 | 2.64 | Goetzel 2- 29 (s) | |
| 7700.00 | 90.00 | 266.68 | 7097.00 | 28.59 | 11.01 | 55.05 | 270.57 | 222.97 | 5.68 | Goetzel 12N-30B-M (p) | |
| 7800.00 | 90.00 | 266.68 | 7097.00 | 29.60 | 11.47 | 90.00 | 570.24 | 332.08 | 2.39 | Goetzel 2- 29 (s) | SF(Lo) |
| 7800.00 | 90.00 | 266.68 | 7097.00 | 29.60 | 11.47 | 54.97 | 270.03 | 220.78 | 5.48 | Goetzel 12N-30B-M (p) | |
| 7900.00 | 90.00 | 266.68 | 7097.00 | 30.83 | 11.96 | 90.00 | 534.05 | 292.72 | 2.21 | Goetzel 2- 29 (s) | SF(Lo) |
| 7900.00 | 90.00 | 266.68 | 7097.00 | 30.83 | 11.96 | 54.89 | 269.48 | 218.18 | 5.25 | Goetzel 12N-30B-M (p) | |
| 8000.00 | 90.00 | 266.68 | 7097.00 | 32.25 | 12.48 | 90.00 | 515.02 | 270.68 | 2.11 | Goetzel 2- 29 (s) | SF(Lo) |
| 8000.00 | 90.00 | 266.68 | 7097.00 | 32.25 | 12.48 | 54.81 | 268.94 | 215.30 | 5.01 | Goetzel 12N-30B-M (p) | |
| 8100.00 | 90.00 | 266.68 | 7097.00 | 33.85 | 13.02 | 90.00 | 515.06 | 268.46 | 2.09 | Goetzel 2- 29 (s) | SF(Lo) |
| 8100.00 | 90.00 | 266.68 | 7097.00 | 33.85 | 13.02 | 54.72 | 268.39 | 212.13 | 4.77 | Goetzel 12N-30B-M (p) | |
| 8200.00 | 90.00 | 266.68 | 7097.00 | 35.59 | 13.58 | 90.00 | 534.16 | 286.34 | 2.16 | Goetzel 2- 29 (s) | SF(Lo) |
| 8200.00 | 90.00 | 266.68 | 7097.00 | 35.59 | 13.58 | 54.64 | 267.85 | 208.72 | 4.53 | Goetzel 12N-30B-M (p) | |
| 8300.00 | 90.00 | 266.68 | 7097.00 | 37.46 | 14.16 | 90.00 | 570.40 | 322.04 | 2.30 | Goetzel 2- 29 (s) | SF(Lo) |
| 8300.00 | 90.00 | 266.68 | 7097.00 | 37.46 | 14.16 | 54.56 | 267.31 | 205.07 | 4.30 | Goetzel 12N-30B-M (p) | |
| 8400.00 | 90.00 | 266.68 | 7097.00 | 39.44 | 14.75 | 90.00 | 620.80 | 372.51 | 2.50 | Goetzel 2- 29 (s) | |
| 8400.00 | 90.00 | 266.68 | 7097.00 | 39.44 | 14.75 | 54.48 | 266.76 | 201.19 | 4.07 | Goetzel 12N-30B-M (p) | |
| 8500.00 | 90.00 | 266.68 | 7097.00 | 41.52 | 15.36 | 90.00 | 682.23 | 434.77 | 2.76 | Goetzel 2- 29 (s) | |
| 8500.00 | 90.00 | 266.68 | 7097.00 | 41.52 | 15.36 | 54.39 | 266.22 | 197.19 | 3.86 | Goetzel 12N-30B-M (p) | |
| 8600.00 | 90.00 | 266.68 | 7097.00 | 43.67 | 15.97 | 90.00 | 751.98 | 505.64 | 3.05 | Goetzel 2- 29 (s) | |
| 8600.00 | 90.00 | 266.68 | 7097.00 | 43.67 | 15.97 | 54.31 | 265.68 | 193.08 | 3.66 | Goetzel 12N-30B-M (p) | |
| 8700.00 | 90.00 | 266.68 | 7097.00 | 45.90 | 16.60 | 90.00 | 827.95 | 582.01 | 3.37 | Goetzel 2- 29 (s) | |
| 8700.00 | 90.00 | 266.68 | 7097.00 | 45.90 | 16.60 | 54.22 | 265.14 | 188.87 | 3.48 | Goetzel 12N-30B-M (p) | |
| 8800.00 | 90.00 | 266.68 | 7097.00 | 48.18 | 17.23 | 54.14 | 264.60 | 184.59 | 3.31 | Goetzel 12N-30B-M (p) | |
| 8900.00 | 90.00 | 266.68 | 7097.00 | 50.52 | 17.88 | 54.06 | 264.06 | 180.25 | 3.15 | Goetzel 12N-30B-M (p) | |
| 9000.00 | 90.00 | 266.68 | 7097.00 | 52.90 | 18.53 | 53.97 | 263.52 | 175.86 | 3.01 | Goetzel 12N-30B-M (p) | |
| 9100.00 | 90.00 | 266.68 | 7097.00 | 55.32 | 19.18 | 53.89 | 262.98 | 171.43 | 2.87 | Goetzel 12N-30B-M (p) | |
| 9200.00 | 90.00 | 266.68 | 7097.00 | 57.77 | 19.84 | 53.80 | 262.45 | 166.96 | 2.75 | Goetzel 12N-30B-M (p) | |
| 9300.00 | 90.00 | 266.68 | 7097.00 | 60.26 | 20.51 | 53.71 | 261.91 | 162.47 | 2.63 | Goetzel 12N-30B-M (p) | |
| 9400.00 | 90.00 | 266.68 | 7097.00 | 62.77 | 21.18 | 53.63 | 261.37 | 157.96 | 2.53 | | |

5D Anti-Collision Report

| Primary Well: Goetzel 33C-30-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
|---|------------|-----------|----------------|--------------------|--------------------|-------------------------|---------------|---------------|------|-----------------------------|---------|
| MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Nearest Well | Risk |
| 9500.00 | 90.00 | 266.68 | 7097.00 | 65.30 | 21.85 | 53.54 | 260.84 | 153.44 | 2.43 | Goetzel 12N-30B-M (p) | SF(Lo) |
| 9600.00 | 90.00 | 266.68 | 7097.00 | 67.86 | 22.53 | 53.45 | 260.30 | 148.90 | 2.34 | Goetzel 12N-30B-M (p) | SF(Lo) |
| 9700.00 | 90.00 | 266.68 | 7097.00 | 70.43 | 23.21 | 53.37 | 259.77 | 144.30 | 2.25 | Goetzel 12N-30B-M (p) | SF(Lo) |
| 9800.00 | 90.00 | 266.68 | 7097.00 | 73.02 | 23.89 | 53.28 | 259.23 | 139.67 | 2.17 | Goetzel 12N-30B-M (p) | SF(Lo) |
| 9900.00 | 90.00 | 266.68 | 7097.00 | 75.63 | 24.58 | 53.19 | 258.70 | 135.03 | 2.09 | Goetzel 12N-30B-M (p) | SF(Lo) |
| 10000.00 | 90.00 | 266.68 | 7097.00 | 78.24 | 25.27 | 53.10 | 258.17 | 130.39 | 2.02 | Goetzel 12N-30B-M (p) | SF(Lo) |
| 10100.00 | 90.00 | 266.68 | 7097.00 | 80.87 | 25.96 | 53.01 | 257.63 | 125.68 | 1.95 | Goetzel 12N-30B-M (p) | SF(Lo) |
| 10200.00 | 90.00 | 266.68 | 7097.00 | 83.51 | 26.66 | 52.92 | 257.10 | 120.95 | 1.89 | Goetzel 12N-30B-M (p) | SF(Lo) |
| 10300.00 | 90.00 | 266.68 | 7097.00 | 86.17 | 27.35 | 52.83 | 256.57 | 116.22 | 1.83 | Goetzel 12N-30B-M (p) | SF(Lo) |
| 10400.00 | 90.00 | 266.68 | 7097.00 | 88.83 | 28.05 | 52.74 | 256.04 | 111.48 | 1.77 | Goetzel 12N-30B-M (p) | SF(Lo) |
| 10500.00 | 90.00 | 266.68 | 7097.00 | 91.49 | 28.75 | 52.65 | 255.51 | 106.75 | 1.72 | Goetzel 12N-30B-M (p) | SF(Lo) |
| 10600.00 | 90.00 | 266.68 | 7097.00 | 94.17 | 29.45 | 52.56 | 254.98 | 102.02 | 1.67 | Goetzel 12N-30B-M (p) | SF(Lo) |
| 10700.00 | 90.00 | 266.68 | 7097.00 | 96.85 | 30.15 | 52.47 | 254.45 | 97.29 | 1.62 | Goetzel 12N-30B-M (p) | SF(Lo) |
| 10800.00 | 90.00 | 266.68 | 7097.00 | 99.54 | 30.86 | 52.38 | 253.92 | 92.57 | 1.57 | Goetzel 12N-30B-M (p) | SF(Lo) |
| 10900.00 | 90.00 | 266.68 | 7097.00 | 102.23 | 31.56 | 52.29 | 253.40 | 87.85 | 1.53 | Goetzel 12N-30B-M (p) | SF(Lo) |
| 11000.00 | 90.00 | 266.68 | 7097.00 | 104.94 | 32.27 | 52.20 | 252.87 | 83.13 | 1.49 | Goetzel 12N-30B-M (p) | SF(Med) |
| 11100.00 | 90.00 | 266.68 | 7097.00 | 107.64 | 32.98 | 52.10 | 252.34 | 78.42 | 1.45 | Goetzel 12N-30B-M (p) | SF(Med) |
| 11200.00 | 90.00 | 266.68 | 7097.00 | 110.35 | 33.69 | 52.01 | 251.82 | 73.72 | 1.41 | Goetzel 12N-30B-M (p) | SF(Med) |
| 11300.00 | 90.00 | 266.68 | 7097.00 | 113.06 | 34.40 | 51.92 | 251.29 | 69.02 | 1.38 | Goetzel 12N-30B-M (p) | SF(Med) |
| 11400.00 | 90.00 | 266.68 | 7097.00 | 115.78 | 35.11 | 51.82 | 250.77 | 64.33 | 1.35 | Goetzel 12N-30B-M (p) | SF(Med) |
| 11500.00 | 90.00 | 266.68 | 7097.00 | 118.50 | 35.82 | 51.73 | 250.25 | 59.65 | 1.31 | Goetzel 12N-30B-M (p) | SF(Med) |
| 11600.00 | 90.00 | 266.68 | 7097.00 | 121.23 | 36.53 | 270.00 | 338.05 | 29.86 | 1.10 | Firestien #30-45 (s) | SF(Med) |
| 11600.00 | 90.00 | 266.68 | 7097.00 | 121.23 | 36.53 | 51.63 | 249.73 | 54.97 | 1.28 | Goetzel 12N-30B-M (p) | SF(Med) |
| 11700.00 | 90.00 | 266.68 | 7097.00 | 123.96 | 37.25 | 270.00 | 290.20 | -37.09 | 0.89 | Firestien #30-45 (s) | SF(Hi) |
| 11700.00 | 90.00 | 266.68 | 7097.00 | 123.96 | 37.25 | 51.54 | 249.20 | 50.31 | 1.25 | Goetzel 12N-30B-M (p) | SF(Med) |

5D Anti-Collision Report

| Primary Well: Goetzel 33C-30-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
|---|------------|-----------|----------------|--------------------|--------------------|-------------------------|---------------|---------------|------|-----------------------------|---------|
| MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Nearest Well | Risk |
| 11800.00 | 90.00 | 266.68 | 7097.00 | 126.69 | 37.96 | 270.00 | 272.31 | -66.81 | 0.80 | Firestien #30-45 (s) | SF(Hi) |
| 11800.00 | 90.00 | 266.68 | 7097.00 | 126.69 | 37.96 | 51.44 | 248.68 | 45.65 | 1.22 | Goetzel 12N-30B-M (p) | SF(Med) |
| 11900.00 | 90.00 | 266.68 | 7097.00 | 129.42 | 38.67 | 270.00 | 289.99 | -45.46 | 0.86 | Firestien #30-45 (s) | SF(Hi) |
| 11900.00 | 90.00 | 266.68 | 7097.00 | 129.42 | 38.67 | 51.35 | 248.16 | 41.00 | 1.20 | Goetzel 12N-30B-M (p) | SF(Med) |
| 12000.00 | 90.00 | 266.68 | 7097.00 | 132.16 | 39.39 | 270.00 | 337.69 | 15.46 | 1.05 | Firestien #30-45 (s) | SF(Med) |
| 12000.00 | 90.00 | 266.68 | 7097.00 | 132.16 | 39.39 | 51.25 | 247.64 | 36.36 | 1.17 | Goetzel 12N-30B-M (p) | SF(Med) |
| 12100.00 | 90.00 | 266.68 | 7097.00 | 134.90 | 40.11 | 51.15 | 247.12 | 31.73 | 1.15 | Goetzel 12N-30B-M (p) | SF(Med) |
| 12200.00 | 90.00 | 266.68 | 7097.00 | 137.64 | 40.82 | 51.06 | 246.60 | 27.11 | 1.12 | Goetzel 12N-30B-M (p) | SF(Med) |
| 12300.00 | 90.00 | 266.68 | 7097.00 | 140.39 | 41.54 | 50.96 | 246.09 | 22.50 | 1.10 | Goetzel 12N-30B-M (p) | SF(Med) |
| 12400.00 | 90.00 | 266.68 | 7097.00 | 143.13 | 42.26 | 50.86 | 245.57 | 17.90 | 1.08 | Goetzel 12N-30B-M (p) | SF(Med) |
| 12500.00 | 90.00 | 266.68 | 7097.00 | 145.88 | 42.98 | 50.76 | 245.05 | 13.31 | 1.06 | Goetzel 12N-30B-M (p) | SF(Med) |
| 12600.00 | 90.00 | 266.68 | 7097.00 | 148.63 | 43.70 | 50.66 | 244.54 | 8.73 | 1.04 | Goetzel 12N-30B-M (p) | SF(Med) |
| 12700.00 | 90.00 | 266.68 | 7097.00 | 151.38 | 44.42 | 50.57 | 244.02 | 4.16 | 1.02 | Goetzel 12N-30B-M (p) | SF(Med) |
| 12800.00 | 90.00 | 266.68 | 7097.00 | 154.14 | 45.14 | 50.47 | 243.51 | -0.39 | 1.00 | Goetzel 12N-30B-M (p) | SF(Hi) |
| 12900.00 | 90.00 | 266.68 | 7097.00 | 156.89 | 45.86 | 50.37 | 243.00 | -4.94 | 0.98 | Goetzel 12N-30B-M (p) | SF(Hi) |
| 13000.00 | 90.00 | 266.68 | 7097.00 | 159.65 | 46.58 | 50.27 | 242.48 | -9.47 | 0.96 | Goetzel 12N-30B-M (p) | SF(Hi) |
| 13100.00 | 90.00 | 266.68 | 7097.00 | 162.40 | 47.30 | 50.17 | 241.97 | -13.99 | 0.95 | Goetzel 12N-30B-M (p) | SF(Hi) |
| 13200.00 | 90.00 | 266.68 | 7097.00 | 165.16 | 48.02 | 50.06 | 241.46 | -18.49 | 0.93 | Goetzel 12N-30B-M (p) | SF(Hi) |
| 13300.00 | 90.00 | 266.68 | 7097.00 | 167.92 | 48.74 | 49.96 | 240.95 | -22.99 | 0.91 | Goetzel 12N-30B-M (p) | SF(Hi) |
| 13400.00 | 90.00 | 266.68 | 7097.00 | 170.69 | 49.46 | 49.86 | 240.44 | -27.47 | 0.90 | Goetzel 12N-30B-M (p) | SF(Hi) |
| 13500.00 | 90.00 | 266.68 | 7097.00 | 173.45 | 50.19 | 49.76 | 239.93 | -31.93 | 0.88 | Goetzel 12N-30B-M (p) | SF(Hi) |
| 13600.00 | 90.00 | 266.68 | 7097.00 | 176.21 | 50.91 | 49.65 | 239.42 | -36.39 | 0.87 | Goetzel 12N-30B-M (p) | SF(Hi) |
| 13700.00 | 90.00 | 266.68 | 7097.00 | 178.98 | 51.63 | 49.55 | 238.92 | -40.83 | 0.85 | Goetzel 12N-30B-M (p) | SF(Hi) |
| 13800.00 | 90.00 | 266.68 | 7097.00 | 181.74 | 52.35 | 49.45 | 238.41 | -45.25 | 0.84 | Goetzel 12N-30B-M (p) | SF(Hi) |
| 13900.00 | 90.00 | 266.68 | 7097.00 | 184.51 | 53.08 | 49.34 | 237.91 | -49.66 | 0.83 | Goetzel 12N-30B-M (p) | SF(Hi) |
| 14000.00 | 90.00 | 266.68 | 7097.00 | 187.28 | 53.80 | 49.24 | 237.40 | -54.06 | 0.81 | Goetzel 12N-30B-M (p) | SF(Hi) |

5D Anti-Collision Report

| Primary Well: Goetzel 33C-30-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
|---|------------|-----------|----------------|--------------------|--------------------|-------------------------|---------------|---------------|------|-----------------------------|--------|
| MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Nearest Well | Risk |
| 14100.00 | 90.00 | 266.68 | 7097.00 | 190.05 | 54.53 | 49.13 | 236.90 | -58.44 | 0.80 | Goetzel 12N-30B-M (p) | SF(Hi) |
| 14200.00 | 90.00 | 266.68 | 7097.00 | 192.82 | 55.25 | 49.03 | 236.39 | -62.81 | 0.79 | Goetzel 12N-30B-M (p) | SF(Hi) |
| 14200.00 | 90.00 | 266.68 | 7097.00 | 192.82 | 55.25 | 319.05 | 235.71 | -33.05 | 0.88 | Goetzel 33N-30B-M (p) | SF(Hi) |
| 14300.00 | 90.00 | 266.68 | 7097.00 | 195.59 | 55.97 | 48.92 | 235.89 | -67.16 | 0.78 | Goetzel 12N-30B-M (p) | SF(Hi) |
| 14300.00 | 90.00 | 266.68 | 7097.00 | 195.59 | 55.97 | 319.42 | 234.38 | -36.52 | 0.87 | Goetzel 33N-30B-M (p) | SF(Hi) |
| 14400.00 | 90.00 | 266.68 | 7097.00 | 198.36 | 56.70 | 48.81 | 235.39 | -71.50 | 0.77 | Goetzel 12N-30B-M (p) | SF(Hi) |
| 14400.00 | 90.00 | 266.68 | 7097.00 | 198.36 | 56.70 | 319.80 | 233.06 | -39.89 | 0.85 | Goetzel 33N-30B-M (p) | SF(Hi) |
| 14500.00 | 90.00 | 266.68 | 7097.00 | 201.13 | 57.42 | 48.71 | 234.89 | -75.82 | 0.76 | Goetzel 12N-30B-M (p) | SF(Hi) |
| 14500.00 | 90.00 | 266.68 | 7097.00 | 201.13 | 57.42 | 320.19 | 231.75 | -43.18 | 0.84 | Goetzel 33N-30B-M (p) | SF(Hi) |
| 14600.00 | 90.00 | 266.68 | 7097.00 | 203.90 | 58.15 | 48.60 | 234.39 | -80.13 | 0.75 | Goetzel 12N-30B-M (p) | SF(Hi) |
| 14600.00 | 90.00 | 266.68 | 7097.00 | 203.90 | 58.15 | 320.57 | 230.45 | -46.37 | 0.83 | Goetzel 33N-30B-M (p) | SF(Hi) |
| 14700.00 | 90.00 | 266.68 | 7097.00 | 206.68 | 58.88 | 48.49 | 233.89 | -84.42 | 0.73 | Goetzel 12N-30B-M (p) | SF(Hi) |
| 14700.00 | 90.00 | 266.68 | 7097.00 | 206.68 | 58.88 | 320.97 | 229.17 | -49.47 | 0.82 | Goetzel 33N-30B-M (p) | SF(Hi) |
| 14800.00 | 90.00 | 266.68 | 7097.00 | 209.45 | 59.60 | 48.38 | 233.39 | -88.69 | 0.72 | Goetzel 12N-30B-M (p) | SF(Hi) |
| 14800.00 | 90.00 | 266.68 | 7097.00 | 209.45 | 59.60 | 321.37 | 227.89 | -52.48 | 0.81 | Goetzel 33N-30B-M (p) | SF(Hi) |
| 14900.00 | 90.00 | 266.68 | 7097.00 | 212.23 | 60.33 | 48.28 | 232.89 | -92.95 | 0.71 | Goetzel 12N-30B-M (p) | SF(Hi) |
| 14900.00 | 90.00 | 266.68 | 7097.00 | 212.23 | 60.33 | 321.77 | 226.62 | -55.38 | 0.80 | Goetzel 33N-30B-M (p) | SF(Hi) |
| 15000.00 | 90.00 | 266.68 | 7097.00 | 215.00 | 61.05 | 48.17 | 232.40 | -97.19 | 0.71 | Goetzel 12N-30B-M (p) | SF(Hi) |
| 15000.00 | 90.00 | 266.68 | 7097.00 | 215.00 | 61.05 | 322.17 | 225.37 | -58.19 | 0.79 | Goetzel 33N-30B-M (p) | SF(Hi) |
| 15100.00 | 90.00 | 266.68 | 7097.00 | 217.78 | 61.78 | 48.06 | 231.90 | -101.42 | 0.70 | Goetzel 12N-30B-M (p) | SF(Hi) |
| 15100.00 | 90.00 | 266.68 | 7097.00 | 217.78 | 61.78 | 322.59 | 224.13 | -60.89 | 0.79 | Goetzel 33N-30B-M (p) | SF(Hi) |
| 15200.00 | 90.00 | 266.68 | 7097.00 | 220.55 | 62.51 | 47.95 | 231.41 | -105.63 | 0.69 | Goetzel 12N-30B-M (p) | SF(Hi) |
| 15200.00 | 90.00 | 266.68 | 7097.00 | 220.55 | 62.51 | 323.00 | 222.89 | -63.49 | 0.78 | Goetzel 33N-30B-M (p) | SF(Hi) |
| 15300.00 | 90.00 | 266.68 | 7097.00 | 223.33 | 63.23 | 47.84 | 230.91 | -109.82 | 0.68 | Goetzel 12N-30B-M (p) | SF(Hi) |
| 15300.00 | 90.00 | 266.68 | 7097.00 | 223.33 | 63.23 | 323.42 | 221.67 | -65.97 | 0.77 | Goetzel 33N-30B-M (p) | SF(Hi) |
| 15400.00 | 90.00 | 266.68 | 7097.00 | 226.11 | 63.96 | 47.72 | 230.42 | -113.99 | 0.67 | | SF(Hi) |

5D Anti-Collision Report

| Primary Well: Goetzel 33C-30-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
|---|-------------------|------------|----------------|--------------------|--------------------|-------------------------|-------------------------|---------------|---------------|-----------------------------|--------|
| MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Nearest Well | Risk |
| 15400.00 | 90.00 | 266.68 | 7097.00 | 226.11 | 63.96 | 323.85 | 220.47 | -68.35 | 0.76 | Goetzel 12N-30B-M (p) | SF(Hi) |
| 15500.00 | 90.00 | 266.68 | 7097.00 | 228.88 | 64.69 | 47.61 | 229.93 | -118.15 | 0.66 | Goetzel 33N-30B-M (p) | SF(Hi) |
| 15500.00 | 90.00 | 266.68 | 7097.00 | 228.88 | 64.69 | 324.28 | 219.27 | -70.62 | 0.76 | Goetzel 12N-30B-M (p) | SF(Hi) |
| 15600.00 | 90.00 | 266.68 | 7097.00 | 231.66 | 65.41 | 47.51 | 229.59 | -121.54 | 0.65 | Goetzel 33N-30B-M (p) | SF(Hi) |
| 15600.00 | 90.00 | 266.68 | 7097.00 | 231.66 | 65.41 | 324.71 | 218.09 | -72.78 | 0.75 | Goetzel 12N-30B-M (p) | SF(Hi) |
| 15600.60 | 90.00 | 266.68 | 7097.00 | 231.68 | 65.42 | 47.51 | 229.61 | -121.48 | 0.65 | Goetzel 33N-30B-M (p) | SF(Hi) |
| 15600.60 | 90.00 | 266.68 | 7097.00 | 231.68 | 65.42 | 324.71 | 218.08 | -72.79 | 0.75 | Goetzel 12N-30B-M (p) | SF(Hi) |
| Secondary Well: Goetzel 2-29 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
| Pri MD (US ft) | Sec MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Risk |
| 0.00 | 0.00 | 0.00 | 0.00 | 28.00 | 0.00 | 0.00 | 149.69 | 278.65 | 277.88 | 361.99 | |
| 100.00 | 72.00 | 0.00 | 0.00 | 100.00 | 1.09 | 1.09 | 149.69 | 277.24 | 275.27 | 140.56 | |
| 200.00 | 172.00 | 0.00 | 0.00 | 200.00 | 2.69 | 2.69 | 149.69 | 277.24 | 273.44 | 73.05 | |
| 300.00 | 272.00 | 0.00 | 0.00 | 300.00 | 5.73 | 5.73 | 149.69 | 277.24 | 270.18 | 39.29 | |
| 400.00 | 372.00 | 0.00 | 0.00 | 400.00 | 8.77 | 8.77 | 149.69 | 277.24 | 266.92 | 26.87 | |
| 500.00 | 472.00 | 0.00 | 0.00 | 500.00 | 11.80 | 11.80 | 149.69 | 277.24 | 263.83 | 20.68 | |
| 600.00 | 572.00 | 0.00 | 0.00 | 600.00 | 14.84 | 14.84 | 149.69 | 277.24 | 260.57 | 16.63 | |
| 700.00 | 672.00 | 0.00 | 0.00 | 700.00 | 17.88 | 17.88 | 149.69 | 277.24 | 257.31 | 13.91 | |
| 800.00 | 772.00 | 0.00 | 0.00 | 800.00 | 20.91 | 20.91 | 149.69 | 277.24 | 254.05 | 11.95 | |
| 900.00 | 872.00 | 0.00 | 0.00 | 900.00 | 23.95 | 23.95 | 149.69 | 277.24 | 250.78 | 10.48 | |
| 1000.00 | 972.00 | 0.00 | 0.00 | 1000.00 | 26.99 | 26.99 | 149.69 | 277.24 | 247.52 | 9.33 | |
| 1100.00 | 1072.00 | 0.00 | 0.00 | 1100.00 | 30.02 | 30.02 | 149.69 | 277.24 | 244.26 | 8.41 | |
| 1200.00 | 1172.00 | 0.00 | 0.00 | 1200.00 | 33.06 | 33.06 | 34.48 | 276.88 | 240.66 | 7.64 | |
| 1300.00 | 1271.93 | 0.00 | 0.00 | 1299.93 | 36.10 | 36.10 | 34.93 | 274.01 | 234.57 | 6.95 | |
| 1400.00 | 1371.68 | 0.00 | 0.00 | 1399.68 | 39.13 | 39.13 | 35.85 | 268.32 | 225.64 | 6.29 | |
| 1500.00 | 1471.13 | 0.00 | 0.00 | 1499.13 | 42.15 | 42.15 | 37.29 | 259.91 | 214.03 | 5.67 | |
| 1600.00 | 1570.15 | 0.00 | 0.00 | 1598.15 | 45.15 | 45.15 | 39.37 | 248.95 | 199.94 | 5.08 | |
| 1700.00 | 1668.63 | 0.00 | 0.00 | 1696.63 | 48.14 | 48.14 | 42.21 | 235.71 | 183.42 | 4.51 | |
| 1800.00 | 1766.44 | 0.00 | 0.00 | 1794.44 | 51.11 | 51.11 | 46.01 | 220.62 | 165.00 | 3.97 | |
| 1900.00 | 1863.46 | 0.00 | 0.00 | 1891.46 | 54.06 | 54.06 | 51.07 | 204.31 | 145.58 | 3.48 | |
| 2000.00 | 1959.71 | 0.00 | 0.00 | 1987.71 | 56.98 | 56.98 | 57.48 | 188.07 | 125.83 | 3.02 | |
| 2100.00 | 2055.85 | 0.00 | 0.00 | 2083.85 | 59.90 | 59.90 | 64.89 | 174.37 | 108.70 | 2.66 | |
| 2200.00 | 2151.98 | 0.00 | 0.00 | 2179.98 | 62.82 | 62.82 | 73.31 | 164.18 | 95.09 | 2.38 | SF(Lo) |
| 2300.00 | 2248.12 | 0.00 | 0.00 | 2276.12 | 65.74 | 65.74 | 82.54 | 158.18 | 85.61 | 2.18 | SF(Lo) |
| 2400.00 | 2344.26 | 0.00 | 0.00 | 2372.26 | 68.66 | 68.66 | 92.17 | 156.86 | 80.80 | 2.06 | SF(Lo) |
| 2500.00 | 2440.39 | 0.00 | 0.00 | 2468.39 | 71.58 | 71.58 | 101.68 | 160.32 | 80.88 | 2.02 | SF(Lo) |
| 2600.00 | 2536.53 | 0.00 | 0.00 | 2564.53 | 74.50 | 74.50 | 110.58 | 168.27 | 85.63 | 2.04 | SF(Lo) |
| 2700.00 | 2632.67 | 0.00 | 0.00 | 2660.67 | 77.42 | 77.42 | 118.56 | 180.12 | 94.39 | 2.10 | SF(Lo) |
| 2800.00 | 2728.81 | 0.00 | 0.00 | 2756.81 | 80.34 | 80.34 | 125.50 | 195.15 | 106.08 | 2.19 | SF(Lo) |
| 2900.00 | 2824.94 | 0.00 | 0.00 | 2852.94 | 83.26 | 83.26 | 131.41 | 212.71 | 120.54 | 2.31 | SF(Lo) |
| 3000.00 | 2921.08 | 0.00 | 0.00 | 2949.08 | 86.18 | 86.18 | 136.42 | 232.20 | 137.02 | 2.44 | SF(Lo) |
| 3100.00 | 3017.22 | 0.00 | 0.00 | 3045.22 | 89.10 | 89.10 | 140.65 | 253.20 | 154.93 | 2.58 | |
| 3200.00 | 3113.35 | 0.00 | 0.00 | 3141.35 | 92.02 | 92.02 | 144.24 | 275.34 | 173.88 | 2.71 | |
| 3300.00 | 3209.49 | 0.00 | 0.00 | 3237.49 | 94.94 | 94.94 | 147.30 | 298.39 | 194.04 | 2.86 | |
| 3400.00 | 3305.63 | 0.00 | 0.00 | 3333.63 | 97.86 | 97.86 | 149.92 | 322.14 | 214.70 | 3.00 | |
| 3500.00 | 3401.76 | 0.00 | 0.00 | 3429.76 | 100.78 | 100.78 | 152.18 | 346.44 | 235.71 | 3.13 | |

5D Anti-Collision Report

| Secondary Well: Goetzel 2-29 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
|---|-------------------|------------|-----------|----------------|--------------------|--------------------|-------------------------|---------------|---------------|------|--------|
| Pri MD (US ft) | Sec MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Risk |
| 3600.00 | 3497.90 | 0.00 | 0.00 | 3525.90 | 103.70 | 103.70 | 154.15 | 371.20 | 257.32 | 3.26 | |
| 3700.00 | 3594.04 | 0.00 | 0.00 | 3622.04 | 106.62 | 106.62 | 155.87 | 396.32 | 279.40 | 3.39 | |
| 3800.00 | 3690.17 | 0.00 | 0.00 | 3718.17 | 109.54 | 109.54 | 157.39 | 421.75 | 301.83 | 3.52 | |
| 3900.00 | 3786.31 | 0.00 | 0.00 | 3814.31 | 112.45 | 112.45 | 158.74 | 447.42 | 324.54 | 3.64 | |
| 4000.00 | 3882.45 | 0.00 | 0.00 | 3910.45 | 115.37 | 115.37 | 159.94 | 473.30 | 347.16 | 3.75 | |
| 4100.00 | 3978.58 | 0.00 | 0.00 | 4006.58 | 118.29 | 118.29 | 161.02 | 499.36 | 369.93 | 3.86 | |
| 4200.00 | 4074.72 | 0.00 | 0.00 | 4102.72 | 121.21 | 121.21 | 162.00 | 525.56 | 392.90 | 3.96 | |
| 4300.00 | 4170.86 | 0.00 | 0.00 | 4198.86 | 124.13 | 124.13 | 162.88 | 551.90 | 416.02 | 4.06 | |
| 4400.00 | 4266.99 | 0.00 | 0.00 | 4294.99 | 127.05 | 127.05 | 163.68 | 578.35 | 439.29 | 4.16 | |
| 4500.00 | 4363.13 | 0.00 | 0.00 | 4391.13 | 129.97 | 129.97 | 164.41 | 604.89 | 462.67 | 4.25 | |
| 4600.00 | 4459.27 | 0.00 | 0.00 | 4487.27 | 132.89 | 132.89 | 165.08 | 631.52 | 486.15 | 4.34 | |
| 4700.00 | 4555.40 | 0.00 | 0.00 | 4583.40 | 135.81 | 135.81 | 165.69 | 658.22 | 509.72 | 4.43 | |
| 4800.00 | 4651.54 | 0.00 | 0.00 | 4679.54 | 138.73 | 138.73 | 166.26 | 684.98 | 533.34 | 4.52 | |
| 4900.00 | 4747.68 | 0.00 | 0.00 | 4775.68 | 141.65 | 141.65 | 166.79 | 711.81 | 557.03 | 4.60 | |
| 5000.00 | 4843.81 | 0.00 | 0.00 | 4871.81 | 144.57 | 144.57 | 167.27 | 738.68 | 580.78 | 4.68 | |
| 5100.00 | 4939.95 | 0.00 | 0.00 | 4967.95 | 147.49 | 147.49 | 167.73 | 765.61 | 604.58 | 4.75 | |
| 5200.00 | 5036.09 | 0.00 | 0.00 | 5064.09 | 150.41 | 150.41 | 168.15 | 792.57 | 628.43 | 4.83 | |
| 5300.00 | 5132.22 | 0.00 | 0.00 | 5160.22 | 153.33 | 153.33 | 168.54 | 819.57 | 652.32 | 4.90 | |
| 5400.00 | 5228.36 | 0.00 | 0.00 | 5256.36 | 156.25 | 156.25 | 168.91 | 846.61 | 676.25 | 4.97 | |
| 5500.00 | 5324.50 | 0.00 | 0.00 | 5352.50 | 159.17 | 159.17 | 169.26 | 873.67 | 700.22 | 5.04 | |
| 5600.00 | 5420.63 | 0.00 | 0.00 | 5448.63 | 162.09 | 162.09 | 169.59 | 900.77 | 724.09 | 5.10 | |
| 5700.00 | 5516.77 | 0.00 | 0.00 | 5544.77 | 165.01 | 165.01 | 169.89 | 927.89 | 747.96 | 5.16 | |
| 5800.00 | 5612.91 | 0.00 | 0.00 | 5640.91 | 167.93 | 167.93 | 170.18 | 955.03 | 771.87 | 5.21 | |
| 5900.00 | 5709.04 | 0.00 | 0.00 | 5737.04 | 170.85 | 170.85 | 170.46 | 982.19 | 795.79 | 5.27 | |
| 6000.00 | 5805.18 | 0.00 | 0.00 | 5833.18 | 173.77 | 173.77 | 170.71 | 1009.38 | 819.75 | 5.32 | |
| 6100.00 | 5901.32 | 0.00 | 0.00 | 5929.32 | 176.68 | 176.68 | 170.96 | 1036.58 | 843.72 | 5.37 | |
| 6200.00 | 5997.45 | 0.00 | 0.00 | 6025.45 | 179.60 | 179.60 | 171.19 | 1063.80 | 867.71 | 5.43 | |
| 6300.00 | 6093.59 | 0.00 | 0.00 | 6121.59 | 182.52 | 182.52 | 171.41 | 1091.03 | 891.73 | 5.47 | |
| 6400.00 | 6189.73 | 0.00 | 0.00 | 6217.73 | 185.44 | 185.44 | 171.35 | 1118.28 | 915.75 | 5.52 | |
| 6500.00 | 6287.27 | 0.00 | 0.00 | 6315.27 | 188.41 | 188.41 | 147.47 | 1138.97 | 933.24 | 5.54 | |
| 6600.00 | 6386.21 | 0.00 | 0.00 | 6414.21 | 191.41 | 191.41 | 95.83 | 1146.85 | 937.92 | 5.49 | |
| 6700.00 | 6484.63 | 0.00 | 0.00 | 6512.63 | 194.40 | 194.40 | 60.02 | 1141.91 | 929.83 | 5.38 | |
| 6800.00 | 6580.62 | 0.00 | 0.00 | 6608.62 | 197.31 | 197.31 | 47.56 | 1124.47 | 909.39 | 5.23 | |
| 6900.00 | 6672.30 | 0.00 | 0.00 | 6700.30 | 200.10 | 200.10 | 43.52 | 1095.16 | 877.36 | 5.03 | |
| 7000.00 | 6757.89 | 0.00 | 0.00 | 6785.89 | 202.70 | 202.70 | 43.38 | 1054.94 | 834.81 | 4.79 | |
| 7100.00 | 6835.72 | 0.00 | 0.00 | 6863.72 | 205.06 | 205.06 | 45.83 | 1005.10 | 783.05 | 4.53 | |
| 7200.00 | 6904.29 | 0.00 | 0.00 | 6932.29 | 207.14 | 207.14 | 50.52 | 947.26 | 722.47 | 4.21 | |
| 7300.00 | 6962.25 | 0.00 | 0.00 | 6990.25 | 208.90 | 208.90 | 57.28 | 883.39 | 656.49 | 3.89 | |
| 7400.00 | 7008.47 | 0.00 | 0.00 | 7036.47 | 210.31 | 210.31 | 65.74 | 815.84 | 587.67 | 3.58 | |
| 7500.00 | 7042.07 | 0.00 | 0.00 | 7070.07 | 211.33 | 211.33 | 74.93 | 747.36 | 516.41 | 3.24 | |
| 7600.00 | 7062.37 | 0.00 | 0.00 | 7090.37 | 211.94 | 211.94 | 83.48 | 681.10 | 448.66 | 2.93 | |
| 7700.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 620.60 | 385.32 | 2.64 | |
| 7800.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 570.24 | 332.08 | 2.39 | SF(Lo) |
| 7900.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 534.05 | 292.72 | 2.21 | SF(Lo) |
| 8000.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 515.02 | 270.68 | 2.11 | SF(Lo) |
| 8100.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 515.06 | 268.46 | 2.09 | SF(Lo) |
| 8200.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 534.16 | 286.34 | 2.16 | SF(Lo) |
| 8300.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 570.40 | 322.04 | 2.30 | SF(Lo) |
| 8400.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 620.80 | 372.51 | 2.50 | |
| 8500.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 682.23 | 434.77 | 2.76 | |
| 8600.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 751.98 | 505.64 | 3.05 | |
| 8700.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 827.95 | 582.01 | 3.37 | |
| 8800.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 908.59 | 663.60 | 3.71 | |
| 8900.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 992.76 | 749.08 | 4.07 | |
| 9000.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 1079.64 | 836.15 | 4.43 | |
| 9100.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 1168.61 | 925.63 | 4.81 | |
| 9200.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 1259.24 | 1016.97 | 5.20 | |
| 9300.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 1351.19 | 1109.80 | 5.60 | |

5D Anti-Collision Report

| Secondary Well: Goetzel 2-29 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
|---|-------------------|------------|-----------|----------------|--------------------|--------------------|-------------------------|---------------|---------------|-------|------|
| Pri MD (US ft) | Sec MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Risk |
| 9400.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 1444.22 | 1203.22 | 5.99 | |
| 9500.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 1538.12 | 1297.29 | 6.39 | |
| 9600.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 1632.74 | 1392.03 | 6.78 | |
| 9700.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 1727.97 | 1487.48 | 7.19 | |
| 9800.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 1823.71 | 1583.50 | 7.59 | |
| 9900.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 1919.88 | 1680.01 | 8.00 | |
| 10000.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 2016.43 | 1776.92 | 8.42 | |
| 10100.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 2113.30 | 1874.07 | 8.83 | |
| 10200.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 2210.44 | 1971.49 | 9.25 | |
| 10300.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 2307.83 | 2069.18 | 9.67 | |
| 10400.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 2405.44 | 2167.08 | 10.09 | |
| 10500.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 2503.23 | 2265.17 | 10.51 | |
| 10600.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 2601.19 | 2363.22 | 10.93 | |
| 10700.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 2699.30 | 2461.35 | 11.34 | |
| 10800.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 2797.55 | 2559.63 | 11.76 | |
| 10900.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 2895.91 | 2658.04 | 12.17 | |
| 11000.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 2994.39 | 2756.54 | 12.59 | |
| 11100.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 3092.96 | 2855.12 | 13.00 | |
| 11200.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 3191.62 | 2953.79 | 13.42 | |
| 11300.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 3290.36 | 3052.55 | 13.84 | |
| 11400.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 3389.17 | 3151.38 | 14.25 | |
| 11500.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 3488.06 | 3250.29 | 14.67 | |
| 11600.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 3587.00 | 3349.26 | 15.09 | |
| 11700.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 3686.00 | 3448.29 | 15.51 | |
| 11800.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 3785.06 | 3547.38 | 15.93 | |
| 11900.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 3884.16 | 3646.51 | 16.34 | |
| 12000.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 3983.30 | 3745.69 | 16.76 | |
| 12100.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 4082.49 | 3844.91 | 17.18 | |
| 12200.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 4181.72 | 3944.17 | 17.60 | |
| 12300.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 4280.98 | 4043.46 | 18.02 | |
| 12400.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 4380.28 | 4142.79 | 18.44 | |
| 12500.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 4479.61 | 4242.15 | 18.86 | |
| 12600.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 4578.97 | 4341.53 | 19.29 | |
| 12700.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 4678.35 | 4440.94 | 19.71 | |
| 12800.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 4777.76 | 4540.38 | 20.13 | |
| 12900.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 4877.20 | 4639.84 | 20.55 | |
| 13000.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 4976.65 | 4739.32 | 20.97 | |
| 13100.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 5076.13 | 4838.82 | 21.39 | |
| 13200.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 5175.63 | 4938.34 | 21.81 | |
| 13300.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 5275.15 | 5037.88 | 22.23 | |
| 13400.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 5374.68 | 5137.43 | 22.65 | |
| 13500.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 5474.24 | 5237.00 | 23.08 | |
| 13600.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 5573.80 | 5336.59 | 23.50 | |
| 13700.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 5673.39 | 5436.18 | 23.92 | |
| 13800.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 5772.99 | 5535.79 | 24.34 | |
| 13900.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 5872.60 | 5635.40 | 24.76 | |
| 14000.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 5972.22 | 5735.02 | 25.18 | |
| 14100.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 6071.86 | 5834.65 | 25.60 | |
| 14200.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 6171.51 | 5934.29 | 26.02 | |
| 14300.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 6271.17 | 6033.95 | 26.44 | |
| 14400.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 6370.84 | 6133.61 | 26.86 | |
| 14500.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 6470.52 | 6233.28 | 27.27 | |
| 14600.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 6570.21 | 6332.97 | 27.69 | |
| 14700.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 6669.91 | 6432.66 | 28.11 | |
| 14800.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 6769.62 | 6532.35 | 28.53 | |
| 14900.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 6869.34 | 6632.06 | 28.95 | |
| 15000.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 6969.06 | 6731.77 | 29.37 | |
| 15100.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 7068.79 | 6831.49 | 29.79 | |

5D Anti-Collision Report

| Secondary Well: Goetzel 2-29 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
|---|-------------------|------------|-----------|----------------|--------------------|--------------------|-------------------------|---------------|---------------|---------|------|
| Pri MD (US ft) | Sec MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Risk |
| 15200.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 7168.53 | 6931.22 | 30.21 | |
| 15300.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 7268.28 | 7030.95 | 30.62 | |
| 15400.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 7368.04 | 7130.69 | 31.04 | |
| 15500.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 7467.80 | 7230.43 | 31.46 | |
| 15600.00 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 7567.56 | 7330.18 | 31.88 | |
| 15600.60 | 7069.00 | 0.00 | 0.00 | 7097.00 | 212.15 | 212.15 | 90.00 | 7568.16 | 7330.78 | 31.88 | |
| Secondary Well: Tollgate Farms 29-12G6 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
| Pri MD (US ft) | Sec MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Risk |
| 0.00 | 0.00 | 0.00 | 0.00 | 27.00 | 0.00 | 0.00 | 263.44 | 1526.34 | 1525.68 | 2311.27 | |
| 100.00 | 73.00 | 0.00 | 0.00 | 100.00 | 1.11 | 1.11 | 263.44 | 1526.10 | 1524.22 | 813.46 | |
| 200.00 | 173.00 | 0.00 | 0.00 | 200.00 | 2.72 | 2.72 | 263.44 | 1526.10 | 1522.39 | 411.24 | |
| 300.00 | 273.00 | 0.00 | 0.00 | 300.00 | 5.76 | 5.76 | 263.44 | 1526.10 | 1519.13 | 219.06 | |
| 400.00 | 373.00 | 0.00 | 0.00 | 400.00 | 8.80 | 8.80 | 263.44 | 1526.10 | 1516.05 | 151.84 | |
| 500.00 | 473.00 | 0.00 | 0.00 | 500.00 | 11.83 | 11.83 | 263.44 | 1526.10 | 1512.79 | 114.69 | |
| 600.00 | 573.00 | 0.00 | 0.00 | 600.00 | 14.87 | 14.87 | 263.44 | 1526.10 | 1509.54 | 92.14 | |
| 700.00 | 673.00 | 0.00 | 0.00 | 700.00 | 17.91 | 17.91 | 263.44 | 1526.10 | 1506.28 | 77.01 | |
| 800.00 | 773.00 | 0.00 | 0.00 | 800.00 | 20.94 | 20.94 | 263.44 | 1526.10 | 1503.03 | 66.14 | |
| 900.00 | 873.00 | 0.00 | 0.00 | 900.00 | 23.98 | 23.98 | 263.44 | 1526.10 | 1499.77 | 57.96 | |
| 1000.00 | 973.00 | 0.00 | 0.00 | 1000.00 | 27.02 | 27.02 | 263.44 | 1526.10 | 1496.52 | 51.58 | |
| 1100.00 | 1073.00 | 0.00 | 0.00 | 1100.00 | 30.05 | 30.05 | 263.44 | 1526.10 | 1493.26 | 46.47 | |
| 1200.00 | 1173.00 | 0.00 | 0.00 | 1200.00 | 33.09 | 33.09 | 148.18 | 1526.47 | 1490.38 | 42.30 | |
| 1300.00 | 1272.93 | 0.00 | 0.00 | 1299.93 | 36.13 | 36.13 | 148.22 | 1529.44 | 1490.13 | 38.91 | |
| 1400.00 | 1372.68 | 0.00 | 0.00 | 1399.68 | 39.16 | 39.16 | 148.29 | 1535.37 | 1492.85 | 36.11 | |
| 1500.00 | 1472.13 | 0.00 | 0.00 | 1499.13 | 42.18 | 42.18 | 148.40 | 1544.28 | 1498.56 | 33.77 | |
| 1600.00 | 1571.15 | 0.00 | 0.00 | 1598.15 | 45.18 | 45.18 | 148.54 | 1556.18 | 1507.25 | 31.80 | |
| 1700.00 | 1669.63 | 0.00 | 0.00 | 1696.63 | 48.17 | 48.17 | 148.72 | 1571.07 | 1518.94 | 30.14 | |
| 1800.00 | 1767.44 | 0.00 | 0.00 | 1794.44 | 51.14 | 51.14 | 148.92 | 1588.96 | 1533.66 | 28.73 | |
| 1900.00 | 1864.46 | 0.00 | 0.00 | 1891.46 | 54.09 | 54.09 | 149.14 | 1609.86 | 1551.35 | 27.51 | |
| 2000.00 | 1960.71 | 0.00 | 0.00 | 1987.71 | 57.01 | 57.01 | 149.50 | 1633.41 | 1571.65 | 26.45 | |
| 2100.00 | 2056.85 | 0.00 | 0.00 | 2083.85 | 59.93 | 59.93 | 149.98 | 1657.42 | 1592.42 | 25.50 | |
| 2200.00 | 2152.98 | 0.00 | 0.00 | 2179.98 | 62.85 | 62.85 | 150.45 | 1681.54 | 1613.30 | 24.64 | |
| 2300.00 | 2249.12 | 0.00 | 0.00 | 2276.12 | 65.77 | 65.77 | 150.90 | 1705.76 | 1634.27 | 23.86 | |
| 2400.00 | 2345.26 | 0.00 | 0.00 | 2372.26 | 68.69 | 68.69 | 151.34 | 1730.08 | 1655.34 | 23.15 | |
| 2500.00 | 2441.39 | 0.00 | 0.00 | 2468.39 | 71.61 | 71.61 | 151.77 | 1754.49 | 1676.50 | 22.50 | |
| 2600.00 | 2537.53 | 0.00 | 0.00 | 2564.53 | 74.53 | 74.53 | 152.18 | 1779.00 | 1697.75 | 21.90 | |
| 2700.00 | 2633.67 | 0.00 | 0.00 | 2660.67 | 77.45 | 77.45 | 152.59 | 1803.59 | 1719.10 | 21.35 | |
| 2800.00 | 2729.81 | 0.00 | 0.00 | 2756.81 | 80.37 | 80.37 | 152.98 | 1828.27 | 1740.52 | 20.84 | |
| 2900.00 | 2825.94 | 0.00 | 0.00 | 2852.94 | 83.29 | 83.29 | 153.37 | 1853.02 | 1762.03 | 20.37 | |
| 3000.00 | 2922.08 | 0.00 | 0.00 | 2949.08 | 86.21 | 86.21 | 153.74 | 1877.86 | 1783.62 | 19.93 | |
| 3100.00 | 3018.22 | 0.00 | 0.00 | 3045.22 | 89.13 | 89.13 | 154.10 | 1902.76 | 1805.29 | 19.52 | |
| 3200.00 | 3114.35 | 0.00 | 0.00 | 3141.35 | 92.05 | 92.05 | 154.46 | 1927.74 | 1827.04 | 19.14 | |
| 3300.00 | 3210.49 | 0.00 | 0.00 | 3237.49 | 94.97 | 94.97 | 154.80 | 1952.79 | 1848.85 | 18.79 | |
| 3400.00 | 3306.63 | 0.00 | 0.00 | 3333.63 | 97.89 | 97.89 | 155.14 | 1977.90 | 1870.74 | 18.46 | |
| 3500.00 | 3402.76 | 0.00 | 0.00 | 3429.76 | 100.81 | 100.81 | 155.47 | 2003.08 | 1892.70 | 18.15 | |
| 3600.00 | 3498.90 | 0.00 | 0.00 | 3525.90 | 103.73 | 103.73 | 155.79 | 2028.32 | 1914.72 | 17.85 | |
| 3700.00 | 3595.04 | 0.00 | 0.00 | 3622.04 | 106.65 | 106.65 | 156.10 | 2053.61 | 1936.80 | 17.58 | |
| 3800.00 | 3691.17 | 0.00 | 0.00 | 3718.17 | 109.57 | 109.57 | 156.41 | 2078.97 | 1958.95 | 17.32 | |
| 3900.00 | 3787.31 | 0.00 | 0.00 | 3814.31 | 112.49 | 112.49 | 156.71 | 2104.37 | 1981.15 | 17.08 | |
| 4000.00 | 3883.45 | 0.00 | 0.00 | 3910.45 | 115.40 | 115.40 | 157.00 | 2129.84 | 2003.41 | 16.85 | |
| 4100.00 | 3979.58 | 0.00 | 0.00 | 4006.58 | 118.32 | 118.32 | 157.28 | 2155.35 | 2025.73 | 16.63 | |
| 4200.00 | 4075.72 | 0.00 | 0.00 | 4102.72 | 121.24 | 121.24 | 157.56 | 2180.91 | 2048.10 | 16.42 | |
| 4300.00 | 4171.86 | 0.00 | 0.00 | 4198.86 | 124.16 | 124.16 | 157.83 | 2206.51 | 2070.53 | 16.23 | |
| 4400.00 | 4267.99 | 0.00 | 0.00 | 4294.99 | 127.08 | 127.08 | 158.10 | 2232.17 | 2093.00 | 16.04 | |
| 4500.00 | 4364.13 | 0.00 | 0.00 | 4391.13 | 130.00 | 130.00 | 158.36 | 2257.87 | 2115.52 | 15.86 | |
| 4600.00 | 4460.27 | 0.00 | 0.00 | 4487.27 | 132.92 | 132.92 | 158.61 | 2283.61 | 2138.08 | 15.69 | |
| 4700.00 | 4556.40 | 0.00 | 0.00 | 4583.40 | 135.84 | 135.84 | 158.86 | 2309.39 | 2160.69 | 15.53 | |

5D Anti-Collision Report

| Secondary Well: Tollgate Farms 29-12G6 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
|---|-------------------|------------|-----------|----------------|--------------------|--------------------|-------------------------|---------------|---------------|-------|--------|
| Pri MD (US ft) | Sec MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Risk |
| 4800.00 | 4652.54 | 0.00 | 0.00 | 4679.54 | 138.76 | 138.76 | 159.10 | 2335.21 | 2183.30 | 15.37 | |
| 4900.00 | 4748.68 | 0.00 | 0.00 | 4775.68 | 141.68 | 141.68 | 159.34 | 2361.07 | 2205.89 | 15.22 | |
| 5000.00 | 4844.81 | 0.00 | 0.00 | 4871.81 | 144.60 | 144.60 | 159.57 | 2386.96 | 2228.53 | 15.07 | |
| 5100.00 | 4940.95 | 0.00 | 0.00 | 4967.95 | 147.52 | 147.52 | 159.80 | 2412.90 | 2251.20 | 14.92 | |
| 5200.00 | 5037.09 | 0.00 | 0.00 | 5064.09 | 150.44 | 150.44 | 160.02 | 2438.87 | 2273.91 | 14.79 | |
| 5300.00 | 5133.22 | 0.00 | 0.00 | 5160.22 | 153.36 | 153.36 | 160.24 | 2464.87 | 2296.66 | 14.65 | |
| 5400.00 | 5229.36 | 0.00 | 0.00 | 5256.36 | 156.28 | 156.28 | 160.45 | 2490.90 | 2319.44 | 14.53 | |
| 5500.00 | 5325.50 | 0.00 | 0.00 | 5352.50 | 159.20 | 159.20 | 160.66 | 2516.97 | 2342.25 | 14.41 | |
| 5600.00 | 5421.63 | 0.00 | 0.00 | 5448.63 | 162.12 | 162.12 | 160.86 | 2543.07 | 2365.10 | 14.29 | |
| 5700.00 | 5517.77 | 0.00 | 0.00 | 5544.77 | 165.04 | 165.04 | 161.06 | 2569.19 | 2387.98 | 14.18 | |
| 5800.00 | 5613.91 | 0.00 | 0.00 | 5640.91 | 167.96 | 167.96 | 161.26 | 2595.35 | 2410.89 | 14.07 | |
| 5900.00 | 5710.04 | 0.00 | 0.00 | 5737.04 | 170.88 | 170.88 | 161.45 | 2621.53 | 2433.83 | 13.97 | |
| 6000.00 | 5806.18 | 0.00 | 0.00 | 5833.18 | 173.80 | 173.80 | 161.64 | 2647.74 | 2456.80 | 13.87 | |
| 6100.00 | 5902.32 | 0.00 | 0.00 | 5929.32 | 176.72 | 176.72 | 161.83 | 2673.98 | 2479.80 | 13.77 | |
| 6200.00 | 5998.45 | 0.00 | 0.00 | 6025.45 | 179.63 | 179.63 | 162.01 | 2700.24 | 2502.83 | 13.68 | |
| 6300.00 | 6094.59 | 0.00 | 0.00 | 6121.59 | 182.55 | 182.55 | 162.19 | 2726.53 | 2525.88 | 13.59 | |
| 6400.00 | 6190.73 | 0.00 | 0.00 | 6217.73 | 185.47 | 185.47 | 162.09 | 2752.84 | 2548.96 | 13.50 | |
| 6500.00 | 6288.27 | 0.00 | 0.00 | 6315.27 | 188.44 | 188.44 | 138.36 | 2772.27 | 2565.19 | 13.39 | |
| 6600.00 | 6387.21 | 0.00 | 0.00 | 6414.21 | 191.44 | 191.44 | 86.53 | 2778.20 | 2567.92 | 13.21 | |
| 6700.00 | 6485.63 | 0.00 | 0.00 | 6512.63 | 194.43 | 194.43 | 50.21 | 2770.57 | 2557.15 | 12.98 | |
| 6800.00 | 6581.62 | 0.00 | 0.00 | 6608.62 | 197.34 | 197.34 | 36.87 | 2749.56 | 2533.13 | 12.70 | |
| 6900.00 | 6673.30 | 0.00 | 0.00 | 6700.30 | 200.13 | 200.13 | 31.54 | 2715.65 | 2496.38 | 12.39 | |
| 7000.00 | 6758.89 | 0.00 | 0.00 | 6785.89 | 202.73 | 202.73 | 29.61 | 2669.53 | 2447.66 | 12.03 | |
| 7100.00 | 6836.72 | 0.00 | 0.00 | 6863.72 | 205.09 | 205.09 | 29.71 | 2612.18 | 2387.96 | 11.65 | |
| 7200.00 | 6905.29 | 0.00 | 0.00 | 6932.29 | 207.17 | 207.17 | 31.53 | 2544.76 | 2318.50 | 11.25 | |
| 7300.00 | 6963.25 | 0.00 | 0.00 | 6990.25 | 208.93 | 208.93 | 35.28 | 2468.65 | 2240.69 | 10.83 | |
| 7400.00 | 7009.47 | 0.00 | 0.00 | 7036.47 | 210.34 | 210.34 | 41.68 | 2385.37 | 2156.06 | 10.40 | |
| 7500.00 | 7043.07 | 0.00 | 0.00 | 7070.07 | 211.36 | 211.36 | 52.11 | 2296.60 | 2066.22 | 9.97 | |
| 7600.00 | 7063.37 | 0.00 | 0.00 | 7090.37 | 211.97 | 211.97 | 68.39 | 2204.08 | 1973.13 | 9.54 | |
| 7700.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 2109.65 | 1878.20 | 9.11 | |
| 7800.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 2015.14 | 1783.01 | 8.68 | |
| 7900.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 1921.17 | 1688.36 | 8.25 | |
| 8000.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 1827.86 | 1594.26 | 7.82 | |
| 8100.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 1735.28 | 1500.79 | 7.40 | |
| 8200.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 1643.57 | 1408.18 | 6.98 | |
| 8300.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 1552.89 | 1316.59 | 6.57 | |
| 8400.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 1463.43 | 1226.07 | 6.17 | |
| 8500.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 1375.41 | 1136.51 | 5.76 | |
| 8600.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 1289.15 | 1047.87 | 5.34 | |
| 8700.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 1205.01 | 961.44 | 4.95 | |
| 8800.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 1123.47 | 877.58 | 4.57 | |
| 8900.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 1045.15 | 796.20 | 4.20 | |
| 9000.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 970.81 | 717.89 | 3.84 | |
| 9100.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 901.45 | 645.38 | 3.52 | |
| 9200.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 838.30 | 576.89 | 3.21 | |
| 9300.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 782.88 | 517.15 | 2.95 | |
| 9400.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 736.91 | 466.14 | 2.72 | |
| 9500.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 702.27 | 426.39 | 2.55 | |
| 9600.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 680.68 | 400.65 | 2.43 | SF(Lo) |
| 9700.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 673.40 | 390.68 | 2.38 | SF(Lo) |
| 9800.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 680.88 | 397.19 | 2.40 | SF(Lo) |
| 9900.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 702.67 | 418.73 | 2.47 | SF(Lo) |
| 10000.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 737.49 | 454.41 | 2.61 | |
| 10100.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 783.60 | 502.44 | 2.79 | |
| 10200.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 839.15 | 560.44 | 3.01 | |
| 10300.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 902.39 | 625.99 | 3.26 | |
| 10400.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 971.83 | 698.26 | 3.55 | |
| 10500.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 1046.23 | 775.36 | 3.86 | |

5D Anti-Collision Report

| Secondary Well: Tollgate Farms 29-12G6 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
|---|-------------------|------------|-----------|----------------|--------------------|--------------------|-------------------------|---------------|---------------|---------|------|
| Pri MD (US ft) | Sec MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Risk |
| 10600.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 1124.60 | 855.82 | 4.18 | |
| 10700.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 1206.18 | 939.73 | 4.53 | |
| 10800.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 1290.36 | 1026.32 | 4.89 | |
| 10900.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 1376.65 | 1113.85 | 5.24 | |
| 11000.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 1464.68 | 1203.30 | 5.60 | |
| 11100.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 1554.17 | 1294.28 | 5.98 | |
| 11200.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 1644.87 | 1386.51 | 6.37 | |
| 11300.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 1736.58 | 1479.74 | 6.76 | |
| 11400.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 1829.17 | 1573.77 | 7.16 | |
| 11500.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 1922.50 | 1667.84 | 7.55 | |
| 11600.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 2016.47 | 1762.46 | 7.94 | |
| 11700.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 2110.99 | 1857.61 | 8.33 | |
| 11800.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 2206.00 | 1953.24 | 8.73 | |
| 11900.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 2301.43 | 2049.30 | 9.13 | |
| 12000.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 2397.23 | 2145.71 | 9.53 | |
| 12100.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 2493.36 | 2242.44 | 9.94 | |
| 12200.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 2589.79 | 2339.44 | 10.34 | |
| 12300.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 2686.47 | 2436.69 | 10.76 | |
| 12400.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 2783.39 | 2534.16 | 11.17 | |
| 12500.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 2880.53 | 2631.81 | 11.58 | |
| 12600.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 2977.85 | 2729.64 | 12.00 | |
| 12700.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 3075.34 | 2827.62 | 12.41 | |
| 12800.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 3172.99 | 2925.74 | 12.83 | |
| 12900.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 3270.78 | 3023.98 | 13.25 | |
| 13000.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 3368.70 | 3122.24 | 13.67 | |
| 13100.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 3466.74 | 3220.48 | 14.08 | |
| 13200.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 3564.89 | 3318.81 | 14.49 | |
| 13300.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 3663.13 | 3417.21 | 14.90 | |
| 13400.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 3761.48 | 3515.69 | 15.30 | |
| 13500.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 3859.90 | 3614.26 | 15.71 | |
| 13600.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 3958.41 | 3712.91 | 16.12 | |
| 13700.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 4056.98 | 3811.62 | 16.53 | |
| 13800.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 4155.63 | 3910.40 | 16.95 | |
| 13900.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 4254.34 | 4009.24 | 17.36 | |
| 14000.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 4353.11 | 4108.14 | 17.77 | |
| 14100.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 4451.93 | 4207.08 | 18.18 | |
| 14200.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 4550.81 | 4306.07 | 18.59 | |
| 14300.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 4649.73 | 4405.11 | 19.01 | |
| 14400.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 4748.70 | 4504.19 | 19.42 | |
| 14500.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 4847.71 | 4603.30 | 19.83 | |
| 14600.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 4946.76 | 4702.46 | 20.25 | |
| 14700.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 5045.84 | 4801.64 | 20.66 | |
| 14800.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 5144.97 | 4900.86 | 21.08 | |
| 14900.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 5244.12 | 5000.11 | 21.49 | |
| 15000.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 5343.31 | 5099.39 | 21.91 | |
| 15100.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 5442.53 | 5198.69 | 22.32 | |
| 15200.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 5541.77 | 5298.02 | 22.74 | |
| 15300.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 5641.05 | 5397.37 | 23.15 | |
| 15400.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 5740.34 | 5496.75 | 23.56 | |
| 15500.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 5839.66 | 5596.14 | 23.98 | |
| 15600.00 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 5939.01 | 5695.56 | 24.39 | |
| 15600.60 | 7070.00 | 0.00 | 0.00 | 7097.00 | 212.18 | 212.18 | 90.00 | 5939.61 | 5696.15 | 24.40 | |
| Secondary Well: Tigges 30-31 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
| Pri MD (US ft) | Sec MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Risk |
| 0.00 | 0.00 | 0.00 | 0.00 | 17.00 | 0.00 | 0.00 | 266.87 | 5649.64 | 5648.91 | 7759.42 | |
| 100.00 | 83.00 | 0.00 | 0.00 | 100.00 | 1.26 | 1.26 | 266.87 | 5649.61 | 5647.52 | 2695.89 | |

5D Anti-Collision Report

| Secondary Well: Tigges 30-31 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
|---|-------------------|------------|-----------|----------------|--------------------|--------------------|-------------------------|---------------|---------------|---------|------|
| Pri MD (US ft) | Sec MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Risk |
| 200.00 | 183.00 | 0.00 | 0.00 | 200.00 | 3.03 | 3.03 | 266.87 | 5649.61 | 5645.53 | 1383.74 | |
| 300.00 | 283.00 | 0.00 | 0.00 | 300.00 | 6.06 | 6.06 | 266.87 | 5649.61 | 5642.27 | 769.74 | |
| 400.00 | 383.00 | 0.00 | 0.00 | 400.00 | 9.10 | 9.10 | 266.87 | 5649.61 | 5639.19 | 541.95 | |
| 500.00 | 483.00 | 0.00 | 0.00 | 500.00 | 12.14 | 12.14 | 266.87 | 5649.61 | 5635.93 | 412.94 | |
| 600.00 | 583.00 | 0.00 | 0.00 | 600.00 | 15.17 | 15.17 | 266.87 | 5649.61 | 5632.68 | 333.54 | |
| 700.00 | 683.00 | 0.00 | 0.00 | 700.00 | 18.21 | 18.21 | 266.87 | 5649.61 | 5629.42 | 279.75 | |
| 800.00 | 783.00 | 0.00 | 0.00 | 800.00 | 21.25 | 21.25 | 266.87 | 5649.61 | 5626.16 | 240.90 | |
| 900.00 | 883.00 | 0.00 | 0.00 | 900.00 | 24.28 | 24.28 | 266.87 | 5649.61 | 5622.91 | 211.53 | |
| 1000.00 | 983.00 | 0.00 | 0.00 | 1000.00 | 27.32 | 27.32 | 266.87 | 5649.61 | 5619.65 | 188.54 | |
| 1100.00 | 1083.00 | 0.00 | 0.00 | 1100.00 | 30.36 | 30.36 | 266.87 | 5649.61 | 5616.39 | 170.06 | |
| 1200.00 | 1183.00 | 0.00 | 0.00 | 1200.00 | 33.40 | 33.40 | 151.60 | 5650.00 | 5613.53 | 154.92 | |
| 1300.00 | 1282.93 | 0.00 | 0.00 | 1299.93 | 36.43 | 36.43 | 151.59 | 5653.07 | 5613.38 | 142.43 | |
| 1400.00 | 1382.68 | 0.00 | 0.00 | 1399.68 | 39.46 | 39.46 | 151.56 | 5659.21 | 5616.30 | 131.89 | |
| 1500.00 | 1482.13 | 0.00 | 0.00 | 1499.13 | 42.48 | 42.48 | 151.53 | 5668.41 | 5622.28 | 122.88 | |
| 1600.00 | 1581.15 | 0.00 | 0.00 | 1598.15 | 45.49 | 45.49 | 151.48 | 5680.67 | 5631.31 | 115.10 | |
| 1700.00 | 1679.63 | 0.00 | 0.00 | 1696.63 | 48.48 | 48.48 | 151.41 | 5695.97 | 5643.40 | 108.35 | |
| 1800.00 | 1777.44 | 0.00 | 0.00 | 1794.44 | 51.45 | 51.45 | 151.33 | 5714.31 | 5658.53 | 102.44 | |
| 1900.00 | 1874.46 | 0.00 | 0.00 | 1891.46 | 54.39 | 54.39 | 151.24 | 5735.67 | 5676.67 | 97.21 | |
| 2000.00 | 1970.71 | 0.00 | 0.00 | 1987.71 | 57.32 | 57.32 | 151.25 | 5759.65 | 5697.43 | 92.57 | |
| 2100.00 | 2066.85 | 0.00 | 0.00 | 2083.85 | 60.24 | 60.24 | 151.38 | 5784.01 | 5718.58 | 88.39 | |
| 2200.00 | 2162.98 | 0.00 | 0.00 | 2179.98 | 63.16 | 63.16 | 151.51 | 5808.41 | 5739.75 | 84.60 | |
| 2300.00 | 2259.12 | 0.00 | 0.00 | 2276.12 | 66.08 | 66.08 | 151.64 | 5832.82 | 5760.94 | 81.14 | |
| 2400.00 | 2355.26 | 0.00 | 0.00 | 2372.26 | 69.00 | 69.00 | 151.77 | 5857.27 | 5782.15 | 77.97 | |
| 2500.00 | 2451.39 | 0.00 | 0.00 | 2468.39 | 71.92 | 71.92 | 151.89 | 5881.74 | 5803.38 | 75.06 | |
| 2600.00 | 2547.53 | 0.00 | 0.00 | 2564.53 | 74.83 | 74.83 | 152.02 | 5906.24 | 5824.63 | 72.37 | |
| 2700.00 | 2643.67 | 0.00 | 0.00 | 2660.67 | 77.75 | 77.75 | 152.14 | 5930.77 | 5845.90 | 69.88 | |
| 2800.00 | 2739.81 | 0.00 | 0.00 | 2756.81 | 80.67 | 80.67 | 152.26 | 5955.32 | 5867.19 | 67.57 | |
| 2900.00 | 2835.94 | 0.00 | 0.00 | 2852.94 | 83.59 | 83.59 | 152.38 | 5979.90 | 5888.51 | 65.43 | |
| 3000.00 | 2932.08 | 0.00 | 0.00 | 2949.08 | 86.51 | 86.51 | 152.51 | 6004.51 | 5909.85 | 63.44 | |
| 3100.00 | 3028.22 | 0.00 | 0.00 | 3045.22 | 89.43 | 89.43 | 152.63 | 6029.14 | 5931.22 | 61.57 | |
| 3200.00 | 3124.35 | 0.00 | 0.00 | 3141.35 | 92.35 | 92.35 | 152.74 | 6053.79 | 5952.61 | 59.83 | |
| 3300.00 | 3220.49 | 0.00 | 0.00 | 3237.49 | 95.27 | 95.27 | 152.86 | 6078.47 | 5974.02 | 58.20 | |
| 3400.00 | 3316.63 | 0.00 | 0.00 | 3333.63 | 98.19 | 98.19 | 152.98 | 6103.18 | 5995.46 | 56.66 | |
| 3500.00 | 3412.76 | 0.00 | 0.00 | 3429.76 | 101.11 | 101.11 | 153.09 | 6127.91 | 6016.92 | 55.22 | |
| 3600.00 | 3508.90 | 0.00 | 0.00 | 3525.90 | 104.03 | 104.03 | 153.21 | 6152.66 | 6038.41 | 53.85 | |
| 3700.00 | 3605.04 | 0.00 | 0.00 | 3622.04 | 106.95 | 106.95 | 153.32 | 6177.43 | 6059.92 | 52.57 | |
| 3800.00 | 3701.17 | 0.00 | 0.00 | 3718.17 | 109.87 | 109.87 | 153.44 | 6202.23 | 6081.45 | 51.35 | |
| 3900.00 | 3797.31 | 0.00 | 0.00 | 3814.31 | 112.79 | 112.79 | 153.55 | 6227.05 | 6103.01 | 50.20 | |
| 4000.00 | 3893.45 | 0.00 | 0.00 | 3910.45 | 115.71 | 115.71 | 153.66 | 6251.90 | 6124.59 | 49.11 | |
| 4100.00 | 3989.58 | 0.00 | 0.00 | 4006.58 | 118.63 | 118.63 | 153.77 | 6276.76 | 6146.19 | 48.07 | |
| 4200.00 | 4085.72 | 0.00 | 0.00 | 4102.72 | 121.55 | 121.55 | 153.88 | 6301.65 | 6167.81 | 47.08 | |
| 4300.00 | 4181.86 | 0.00 | 0.00 | 4198.86 | 124.47 | 124.47 | 153.99 | 6326.56 | 6189.46 | 46.14 | |
| 4400.00 | 4277.99 | 0.00 | 0.00 | 4294.99 | 127.39 | 127.39 | 154.10 | 6351.49 | 6211.13 | 45.25 | |
| 4500.00 | 4374.13 | 0.00 | 0.00 | 4391.13 | 130.31 | 130.31 | 154.21 | 6376.45 | 6232.82 | 44.40 | |
| 4600.00 | 4470.27 | 0.00 | 0.00 | 4487.27 | 133.23 | 133.23 | 154.31 | 6401.42 | 6254.53 | 43.58 | |
| 4700.00 | 4566.40 | 0.00 | 0.00 | 4583.40 | 136.15 | 136.15 | 154.42 | 6426.42 | 6276.27 | 42.80 | |
| 4800.00 | 4662.54 | 0.00 | 0.00 | 4679.54 | 139.06 | 139.06 | 154.52 | 6451.43 | 6298.02 | 42.05 | |
| 4900.00 | 4758.68 | 0.00 | 0.00 | 4775.68 | 141.98 | 141.98 | 154.63 | 6476.47 | 6319.80 | 41.34 | |
| 5000.00 | 4854.81 | 0.00 | 0.00 | 4871.81 | 144.90 | 144.90 | 154.73 | 6501.53 | 6341.60 | 40.65 | |
| 5100.00 | 4950.95 | 0.00 | 0.00 | 4967.95 | 147.82 | 147.82 | 154.83 | 6526.60 | 6363.42 | 40.00 | |
| 5200.00 | 5047.09 | 0.00 | 0.00 | 5064.09 | 150.74 | 150.74 | 154.93 | 6551.70 | 6385.26 | 39.36 | |
| 5300.00 | 5143.22 | 0.00 | 0.00 | 5160.22 | 153.66 | 153.66 | 155.04 | 6576.81 | 6407.12 | 38.76 | |
| 5400.00 | 5239.36 | 0.00 | 0.00 | 5256.36 | 156.58 | 156.58 | 155.14 | 6601.95 | 6429.01 | 38.17 | |
| 5500.00 | 5335.50 | 0.00 | 0.00 | 5352.50 | 159.50 | 159.50 | 155.23 | 6627.10 | 6450.91 | 37.61 | |
| 5600.00 | 5431.63 | 0.00 | 0.00 | 5448.63 | 162.42 | 162.42 | 155.33 | 6652.28 | 6472.83 | 37.07 | |
| 5700.00 | 5527.77 | 0.00 | 0.00 | 5544.77 | 165.34 | 165.34 | 155.43 | 6677.47 | 6494.77 | 36.55 | |
| 5800.00 | 5623.91 | 0.00 | 0.00 | 5640.91 | 168.26 | 168.26 | 155.53 | 6702.68 | 6516.73 | 36.05 | |
| 5900.00 | 5720.04 | 0.00 | 0.00 | 5737.04 | 171.18 | 171.18 | 155.63 | 6727.90 | 6538.71 | 35.56 | |

5D Anti-Collision Report

| Secondary Well: Tigges 30-31 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
|---|-------------------|------------|-----------|----------------|--------------------|--------------------|-------------------------|---------------|---------------|-------|------|
| Pri MD (US ft) | Sec MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Risk |
| 6000.00 | 5816.18 | 0.00 | 0.00 | 5833.18 | 174.10 | 174.10 | 155.72 | 6753.15 | 6560.71 | 35.09 | |
| 6100.00 | 5912.32 | 0.00 | 0.00 | 5929.32 | 177.02 | 177.02 | 155.82 | 6778.41 | 6582.73 | 34.64 | |
| 6200.00 | 6008.45 | 0.00 | 0.00 | 6025.45 | 179.94 | 179.94 | 155.91 | 6803.69 | 6604.77 | 34.20 | |
| 6300.00 | 6104.59 | 0.00 | 0.00 | 6121.59 | 182.86 | 182.86 | 156.00 | 6828.99 | 6626.83 | 33.78 | |
| 6400.00 | 6200.73 | 0.00 | 0.00 | 6217.73 | 185.78 | 185.78 | 155.83 | 6854.31 | 6648.90 | 33.37 | |
| 6500.00 | 6298.27 | 0.00 | 0.00 | 6315.27 | 188.74 | 188.74 | 132.18 | 6872.59 | 6664.00 | 32.95 | |
| 6600.00 | 6397.21 | 0.00 | 0.00 | 6414.21 | 191.74 | 191.74 | 80.26 | 6877.11 | 6665.33 | 32.47 | |
| 6700.00 | 6495.63 | 0.00 | 0.00 | 6512.63 | 194.73 | 194.73 | 43.69 | 6867.80 | 6652.88 | 31.96 | |
| 6800.00 | 6591.62 | 0.00 | 0.00 | 6608.62 | 197.65 | 197.65 | 29.92 | 6844.83 | 6626.90 | 31.41 | |
| 6900.00 | 6683.30 | 0.00 | 0.00 | 6700.30 | 200.43 | 200.43 | 23.95 | 6808.67 | 6587.90 | 30.84 | |
| 7000.00 | 6768.89 | 0.00 | 0.00 | 6785.89 | 203.03 | 203.03 | 21.10 | 6760.02 | 6536.62 | 30.26 | |
| 7100.00 | 6846.72 | 0.00 | 0.00 | 6863.72 | 205.40 | 205.40 | 19.94 | 6699.83 | 6474.06 | 29.68 | |
| 7200.00 | 6915.29 | 0.00 | 0.00 | 6932.29 | 207.48 | 207.48 | 20.00 | 6629.27 | 6401.42 | 29.10 | |
| 7300.00 | 6973.25 | 0.00 | 0.00 | 6990.25 | 209.24 | 209.24 | 21.29 | 6549.72 | 6320.12 | 28.53 | |
| 7400.00 | 7019.47 | 0.00 | 0.00 | 7036.47 | 210.64 | 210.64 | 24.36 | 6462.73 | 6231.74 | 27.98 | |
| 7500.00 | 7053.07 | 0.00 | 0.00 | 7070.07 | 211.66 | 211.66 | 30.89 | 6369.98 | 6137.96 | 27.45 | |
| 7600.00 | 7073.37 | 0.00 | 0.00 | 7090.37 | 212.28 | 212.28 | 46.81 | 6273.27 | 6040.53 | 26.95 | |
| 7700.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 6174.47 | 5941.52 | 26.51 | |
| 7800.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 6075.28 | 5842.17 | 26.06 | |
| 7900.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 5976.11 | 5742.94 | 25.63 | |
| 8000.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 5876.98 | 5643.67 | 25.19 | |
| 8100.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 5777.88 | 5544.47 | 24.75 | |
| 8200.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 5678.80 | 5445.24 | 24.31 | |
| 8300.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 5579.76 | 5346.14 | 23.88 | |
| 8400.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 5480.76 | 5246.93 | 23.44 | |
| 8500.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 5381.79 | 5147.84 | 23.00 | |
| 8600.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 5282.86 | 5048.71 | 22.56 | |
| 8700.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 5183.98 | 4949.43 | 22.10 | |
| 8800.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 5085.13 | 4850.23 | 21.65 | |
| 8900.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 4986.33 | 4751.12 | 21.20 | |
| 9000.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 4887.58 | 4652.04 | 20.75 | |
| 9100.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 4788.89 | 4552.95 | 20.30 | |
| 9200.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 4690.24 | 4453.92 | 19.85 | |
| 9300.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 4591.66 | 4354.89 | 19.39 | |
| 9400.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 4493.14 | 4255.88 | 18.94 | |
| 9500.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 4394.68 | 4156.89 | 18.48 | |
| 9600.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 4296.30 | 4058.00 | 18.03 | |
| 9700.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 4198.00 | 3959.20 | 17.58 | |
| 9800.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 4099.77 | 3860.34 | 17.12 | |
| 9900.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 4001.63 | 3761.56 | 16.67 | |
| 10000.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 3903.59 | 3662.87 | 16.22 | |
| 10100.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 3805.65 | 3564.25 | 15.76 | |
| 10200.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 3707.82 | 3465.60 | 15.31 | |
| 10300.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 3610.11 | 3367.05 | 14.85 | |
| 10400.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 3512.53 | 3268.59 | 14.40 | |
| 10500.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 3415.09 | 3170.25 | 13.95 | |
| 10600.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 3317.80 | 3071.98 | 13.50 | |
| 10700.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 3220.67 | 2973.75 | 13.04 | |
| 10800.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 3123.73 | 2875.66 | 12.59 | |
| 10900.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 3026.99 | 2777.72 | 12.14 | |
| 11000.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 2930.46 | 2679.94 | 11.70 | |
| 11100.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 2834.18 | 2582.36 | 11.25 | |
| 11200.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 2738.16 | 2484.97 | 10.81 | |
| 11300.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 2642.44 | 2387.77 | 10.38 | |
| 11400.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 2547.04 | 2290.61 | 9.93 | |
| 11500.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 2452.02 | 2193.62 | 9.49 | |
| 11600.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 2357.40 | 2096.56 | 9.04 | |
| 11700.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 2263.25 | 1999.82 | 8.59 | |

5D Anti-Collision Report

| Secondary Well: Tigges 30-31 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
|---|-------------------|------------|-----------|----------------|--------------------|--------------------|-------------------------|---------------|---------------|---------|--------|
| Pri MD (US ft) | Sec MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Risk |
| 11800.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 2169.62 | 1903.44 | 8.15 | |
| 11900.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 2076.59 | 1807.50 | 7.72 | |
| 12000.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 1984.23 | 1712.06 | 7.29 | |
| 12100.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 1892.65 | 1617.21 | 6.87 | |
| 12200.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 1801.97 | 1523.07 | 6.46 | |
| 12300.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 1712.32 | 1429.57 | 6.06 | |
| 12400.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 1623.89 | 1336.84 | 5.66 | |
| 12500.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 1536.87 | 1244.40 | 5.25 | |
| 12600.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 1451.52 | 1153.32 | 4.87 | |
| 12700.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 1368.17 | 1063.82 | 4.50 | |
| 12800.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 1287.18 | 976.47 | 4.14 | |
| 12900.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 1209.05 | 890.74 | 3.80 | |
| 13000.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 1134.35 | 807.57 | 3.47 | |
| 13100.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 1063.82 | 728.70 | 3.17 | |
| 13200.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 998.33 | 653.55 | 2.90 | |
| 13300.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 938.95 | 584.23 | 2.65 | |
| 13400.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 886.89 | 521.85 | 2.43 | SF(Lo) |
| 13500.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 843.52 | 469.08 | 2.25 | SF(Lo) |
| 13600.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 810.24 | 426.58 | 2.11 | SF(Lo) |
| 13700.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 788.32 | 397.99 | 2.02 | SF(Lo) |
| 13800.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 778.72 | 384.64 | 1.98 | SF(Lo) |
| 13900.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 781.90 | 385.84 | 1.97 | SF(Lo) |
| 14000.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 797.70 | 403.06 | 2.02 | SF(Lo) |
| 14100.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 825.39 | 435.33 | 2.12 | SF(Lo) |
| 14200.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 863.85 | 479.48 | 2.25 | SF(Lo) |
| 14300.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 911.70 | 534.47 | 2.42 | SF(Lo) |
| 14400.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 967.55 | 598.30 | 2.62 | |
| 14500.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 1030.10 | 668.49 | 2.85 | |
| 14600.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 1098.21 | 743.93 | 3.10 | |
| 14700.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 1170.90 | 824.44 | 3.38 | |
| 14800.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 1247.39 | 906.89 | 3.66 | |
| 14900.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 1327.00 | 992.57 | 3.97 | |
| 15000.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 1409.22 | 1080.78 | 4.29 | |
| 15100.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 1493.60 | 1170.78 | 4.63 | |
| 15200.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 1579.81 | 1261.32 | 4.96 | |
| 15300.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 1667.56 | 1353.23 | 5.31 | |
| 15400.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 1756.62 | 1446.27 | 5.66 | |
| 15500.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 1846.80 | 1540.23 | 6.02 | |
| 15600.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 1937.94 | 1634.96 | 6.40 | |
| 15600.60 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 1938.50 | 1635.53 | 6.40 | |
| Secondary Well: Etter 30-32 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
| Pri MD (US ft) | Sec MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Risk |
| 0.00 | 0.00 | 0.00 | 0.00 | 17.00 | 0.00 | 0.00 | 263.37 | 7065.48 | 7064.75 | 9703.99 | |
| 100.00 | 83.00 | 0.00 | 0.00 | 100.00 | 1.26 | 1.26 | 263.37 | 7065.45 | 7063.36 | 3372.02 | |
| 200.00 | 183.00 | 0.00 | 0.00 | 200.00 | 3.03 | 3.03 | 263.37 | 7065.45 | 7061.37 | 1730.85 | |
| 300.00 | 283.00 | 0.00 | 0.00 | 300.00 | 6.06 | 6.06 | 263.37 | 7065.45 | 7058.12 | 962.85 | |
| 400.00 | 383.00 | 0.00 | 0.00 | 400.00 | 9.10 | 9.10 | 263.37 | 7065.45 | 7055.03 | 677.92 | |
| 500.00 | 483.00 | 0.00 | 0.00 | 500.00 | 12.14 | 12.14 | 263.37 | 7065.45 | 7051.78 | 516.55 | |
| 600.00 | 583.00 | 0.00 | 0.00 | 600.00 | 15.17 | 15.17 | 263.37 | 7065.45 | 7048.52 | 417.23 | |
| 700.00 | 683.00 | 0.00 | 0.00 | 700.00 | 18.21 | 18.21 | 263.37 | 7065.45 | 7045.26 | 349.94 | |
| 800.00 | 783.00 | 0.00 | 0.00 | 800.00 | 21.25 | 21.25 | 263.37 | 7065.45 | 7042.01 | 301.35 | |
| 900.00 | 883.00 | 0.00 | 0.00 | 900.00 | 24.28 | 24.28 | 263.37 | 7065.45 | 7038.75 | 264.60 | |
| 1000.00 | 983.00 | 0.00 | 0.00 | 1000.00 | 27.32 | 27.32 | 263.37 | 7065.45 | 7035.50 | 235.84 | |
| 1100.00 | 1083.00 | 0.00 | 0.00 | 1100.00 | 30.36 | 30.36 | 263.37 | 7065.45 | 7032.24 | 212.72 | |
| 1200.00 | 1183.00 | 0.00 | 0.00 | 1200.00 | 33.40 | 33.40 | 148.10 | 7065.83 | 7029.36 | 193.78 | |
| 1300.00 | 1282.93 | 0.00 | 0.00 | 1299.93 | 36.43 | 36.43 | 148.08 | 7068.79 | 7029.11 | 178.14 | |

5D Anti-Collision Report

| Secondary Well: Etter 30-32 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
|--|-------------------|------------|-----------|----------------|--------------------|--------------------|-------------------------|---------------|---------------|--------|------|
| Pri MD (US ft) | Sec MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Risk |
| 1400.00 | 1382.68 | 0.00 | 0.00 | 1399.68 | 39.46 | 39.46 | 148.05 | 7074.71 | 7031.81 | 164.91 | |
| 1500.00 | 1482.13 | 0.00 | 0.00 | 1499.13 | 42.48 | 42.48 | 148.00 | 7083.59 | 7037.48 | 153.60 | |
| 1600.00 | 1581.15 | 0.00 | 0.00 | 1598.15 | 45.49 | 45.49 | 147.94 | 7095.42 | 7046.09 | 143.82 | |
| 1700.00 | 1679.63 | 0.00 | 0.00 | 1696.63 | 48.48 | 48.48 | 147.85 | 7110.20 | 7057.65 | 135.31 | |
| 1800.00 | 1777.44 | 0.00 | 0.00 | 1794.44 | 51.45 | 51.45 | 147.75 | 7127.90 | 7072.15 | 127.86 | |
| 1900.00 | 1874.46 | 0.00 | 0.00 | 1891.46 | 54.39 | 54.39 | 147.62 | 7148.52 | 7089.56 | 121.25 | |
| 2000.00 | 1970.71 | 0.00 | 0.00 | 1987.71 | 57.32 | 57.32 | 147.62 | 7171.66 | 7109.50 | 115.37 | |
| 2100.00 | 2066.85 | 0.00 | 0.00 | 2083.85 | 60.24 | 60.24 | 147.73 | 7195.18 | 7129.80 | 110.05 | |
| 2200.00 | 2162.98 | 0.00 | 0.00 | 2179.98 | 63.16 | 63.16 | 147.85 | 7218.73 | 7150.12 | 105.22 | |
| 2300.00 | 2259.12 | 0.00 | 0.00 | 2276.12 | 66.08 | 66.08 | 147.96 | 7242.30 | 7170.46 | 100.82 | |
| 2400.00 | 2355.26 | 0.00 | 0.00 | 2372.26 | 69.00 | 69.00 | 148.08 | 7265.90 | 7190.83 | 96.78 | |
| 2500.00 | 2451.39 | 0.00 | 0.00 | 2468.39 | 71.92 | 71.92 | 148.19 | 7289.53 | 7211.21 | 93.08 | |
| 2600.00 | 2547.53 | 0.00 | 0.00 | 2564.53 | 74.83 | 74.83 | 148.30 | 7313.19 | 7231.63 | 89.67 | |
| 2700.00 | 2643.67 | 0.00 | 0.00 | 2660.67 | 77.75 | 77.75 | 148.41 | 7336.87 | 7252.06 | 86.51 | |
| 2800.00 | 2739.81 | 0.00 | 0.00 | 2756.81 | 80.67 | 80.67 | 148.53 | 7360.58 | 7272.53 | 83.59 | |
| 2900.00 | 2835.94 | 0.00 | 0.00 | 2852.94 | 83.59 | 83.59 | 148.64 | 7384.32 | 7293.01 | 80.88 | |
| 3000.00 | 2932.08 | 0.00 | 0.00 | 2949.08 | 86.51 | 86.51 | 148.75 | 7408.08 | 7313.53 | 78.35 | |
| 3100.00 | 3028.22 | 0.00 | 0.00 | 3045.22 | 89.43 | 89.43 | 148.86 | 7431.87 | 7334.03 | 75.96 | |
| 3200.00 | 3124.35 | 0.00 | 0.00 | 3141.35 | 92.35 | 92.35 | 148.96 | 7455.68 | 7354.57 | 73.74 | |
| 3300.00 | 3220.49 | 0.00 | 0.00 | 3237.49 | 95.27 | 95.27 | 149.07 | 7479.52 | 7375.12 | 71.64 | |
| 3400.00 | 3316.63 | 0.00 | 0.00 | 3333.63 | 98.19 | 98.19 | 149.18 | 7503.39 | 7395.71 | 69.68 | |
| 3500.00 | 3412.76 | 0.00 | 0.00 | 3429.76 | 101.11 | 101.11 | 149.28 | 7527.28 | 7416.31 | 67.83 | |
| 3600.00 | 3508.90 | 0.00 | 0.00 | 3525.90 | 104.03 | 104.03 | 149.39 | 7551.19 | 7436.94 | 66.09 | |
| 3700.00 | 3605.04 | 0.00 | 0.00 | 3622.04 | 106.95 | 106.95 | 149.49 | 7575.13 | 7457.59 | 64.45 | |
| 3800.00 | 3701.17 | 0.00 | 0.00 | 3718.17 | 109.87 | 109.87 | 149.60 | 7599.10 | 7478.27 | 62.89 | |
| 3900.00 | 3797.31 | 0.00 | 0.00 | 3814.31 | 112.79 | 112.79 | 149.70 | 7623.08 | 7498.97 | 61.42 | |
| 4000.00 | 3893.45 | 0.00 | 0.00 | 3910.45 | 115.71 | 115.71 | 149.81 | 7647.10 | 7519.69 | 60.02 | |
| 4100.00 | 3989.58 | 0.00 | 0.00 | 4006.58 | 118.63 | 118.63 | 149.91 | 7671.13 | 7540.44 | 58.70 | |
| 4200.00 | 4085.72 | 0.00 | 0.00 | 4102.72 | 121.55 | 121.55 | 150.01 | 7695.19 | 7561.21 | 57.43 | |
| 4300.00 | 4181.86 | 0.00 | 0.00 | 4198.86 | 124.47 | 124.47 | 150.11 | 7719.27 | 7582.00 | 56.23 | |
| 4400.00 | 4277.99 | 0.00 | 0.00 | 4294.99 | 127.39 | 127.39 | 150.21 | 7743.38 | 7602.82 | 55.09 | |
| 4500.00 | 4374.13 | 0.00 | 0.00 | 4391.13 | 130.31 | 130.31 | 150.31 | 7767.50 | 7623.65 | 54.00 | |
| 4600.00 | 4470.27 | 0.00 | 0.00 | 4487.27 | 133.23 | 133.23 | 150.41 | 7791.65 | 7644.52 | 52.95 | |
| 4700.00 | 4566.40 | 0.00 | 0.00 | 4583.40 | 136.15 | 136.15 | 150.51 | 7815.83 | 7665.40 | 51.96 | |
| 4800.00 | 4662.54 | 0.00 | 0.00 | 4679.54 | 139.06 | 139.06 | 150.61 | 7840.02 | 7686.31 | 51.00 | |
| 4900.00 | 4758.68 | 0.00 | 0.00 | 4775.68 | 141.98 | 141.98 | 150.71 | 7864.24 | 7707.23 | 50.09 | |
| 5000.00 | 4854.81 | 0.00 | 0.00 | 4871.81 | 144.90 | 144.90 | 150.80 | 7888.48 | 7728.18 | 49.21 | |
| 5100.00 | 4950.95 | 0.00 | 0.00 | 4967.95 | 147.82 | 147.82 | 150.90 | 7912.74 | 7749.16 | 48.37 | |
| 5200.00 | 5047.09 | 0.00 | 0.00 | 5064.09 | 150.74 | 150.74 | 150.99 | 7937.02 | 7770.15 | 47.57 | |
| 5300.00 | 5143.22 | 0.00 | 0.00 | 5160.22 | 153.66 | 153.66 | 151.09 | 7961.32 | 7791.17 | 46.79 | |
| 5400.00 | 5239.36 | 0.00 | 0.00 | 5256.36 | 156.58 | 156.58 | 151.18 | 7985.64 | 7812.20 | 46.04 | |
| 5500.00 | 5335.50 | 0.00 | 0.00 | 5352.50 | 159.50 | 159.50 | 151.28 | 8009.99 | 7833.26 | 45.32 | |
| 5600.00 | 5431.63 | 0.00 | 0.00 | 5448.63 | 162.42 | 162.42 | 151.37 | 8034.35 | 7854.34 | 44.63 | |
| 5700.00 | 5527.77 | 0.00 | 0.00 | 5544.77 | 165.34 | 165.34 | 151.46 | 8058.73 | 7875.44 | 43.97 | |
| 5800.00 | 5623.91 | 0.00 | 0.00 | 5640.91 | 168.26 | 168.26 | 151.56 | 8083.14 | 7896.56 | 43.32 | |
| 5900.00 | 5720.04 | 0.00 | 0.00 | 5737.04 | 171.18 | 171.18 | 151.65 | 8107.56 | 7917.70 | 42.70 | |
| 6000.00 | 5816.18 | 0.00 | 0.00 | 5833.18 | 174.10 | 174.10 | 151.74 | 8132.01 | 7938.86 | 42.10 | |
| 6100.00 | 5912.32 | 0.00 | 0.00 | 5929.32 | 177.02 | 177.02 | 151.83 | 8156.47 | 7960.05 | 41.52 | |
| 6200.00 | 6008.45 | 0.00 | 0.00 | 6025.45 | 179.94 | 179.94 | 151.92 | 8180.96 | 7981.25 | 40.96 | |
| 6300.00 | 6104.59 | 0.00 | 0.00 | 6121.59 | 182.86 | 182.86 | 152.01 | 8205.46 | 8002.47 | 40.42 | |
| 6400.00 | 6200.73 | 0.00 | 0.00 | 6217.73 | 185.78 | 185.78 | 151.84 | 8229.98 | 8023.71 | 39.90 | |
| 6500.00 | 6298.27 | 0.00 | 0.00 | 6315.27 | 188.74 | 188.74 | 128.28 | 8247.43 | 8037.94 | 39.37 | |
| 6600.00 | 6397.21 | 0.00 | 0.00 | 6414.21 | 191.74 | 191.74 | 76.37 | 8251.04 | 8038.33 | 38.79 | |
| 6700.00 | 6495.63 | 0.00 | 0.00 | 6512.63 | 194.73 | 194.73 | 39.73 | 8240.76 | 8024.89 | 38.18 | |
| 6800.00 | 6591.62 | 0.00 | 0.00 | 6608.62 | 197.65 | 197.65 | 25.79 | 8216.77 | 7997.87 | 37.54 | |
| 6900.00 | 6683.30 | 0.00 | 0.00 | 6700.30 | 200.43 | 200.43 | 19.55 | 8179.54 | 7957.77 | 36.88 | |
| 7000.00 | 6768.89 | 0.00 | 0.00 | 6785.89 | 203.03 | 203.03 | 16.31 | 8129.81 | 7905.37 | 36.22 | |
| 7100.00 | 6846.72 | 0.00 | 0.00 | 6863.72 | 205.40 | 205.40 | 14.55 | 8068.53 | 7841.70 | 35.57 | |

5D Anti-Collision Report

| Secondary Well: Etter 30-32 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
|--|-------------------|------------|-----------|----------------|--------------------|--------------------|-------------------------|---------------|---------------|-------|------|
| Pri MD (US ft) | Sec MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Risk |
| 7200.00 | 6915.29 | 0.00 | 0.00 | 6932.29 | 207.48 | 207.48 | 13.74 | 7996.89 | 7767.97 | 34.93 | |
| 7300.00 | 6973.25 | 0.00 | 0.00 | 6990.25 | 209.24 | 209.24 | 13.69 | 7916.29 | 7685.58 | 34.31 | |
| 7400.00 | 7019.47 | 0.00 | 0.00 | 7036.47 | 210.64 | 210.64 | 14.58 | 7828.29 | 7596.13 | 33.72 | |
| 7500.00 | 7053.07 | 0.00 | 0.00 | 7070.07 | 211.66 | 211.66 | 17.19 | 7734.60 | 7501.38 | 33.16 | |
| 7600.00 | 7073.37 | 0.00 | 0.00 | 7090.37 | 212.28 | 212.28 | 25.59 | 7637.04 | 7403.22 | 32.66 | |
| 7700.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 7537.49 | 7303.38 | 32.20 | |
| 7800.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 7437.60 | 7203.49 | 31.77 | |
| 7900.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 7337.71 | 7103.51 | 31.33 | |
| 8000.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 7237.83 | 7003.63 | 30.90 | |
| 8100.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 7137.95 | 6903.65 | 30.46 | |
| 8200.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 7038.07 | 6803.74 | 30.03 | |
| 8300.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 6938.20 | 6703.85 | 29.61 | |
| 8400.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 6838.33 | 6603.90 | 29.17 | |
| 8500.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 6738.46 | 6504.01 | 28.74 | |
| 8600.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 6638.60 | 6404.13 | 28.31 | |
| 8700.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 6538.74 | 6304.18 | 27.88 | |
| 8800.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 6438.89 | 6204.20 | 27.44 | |
| 8900.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 6339.04 | 6104.27 | 27.00 | |
| 9000.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 6239.20 | 6004.39 | 26.57 | |
| 9100.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 6139.36 | 5904.51 | 26.14 | |
| 9200.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 6039.53 | 5804.58 | 25.71 | |
| 9300.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 5939.70 | 5704.63 | 25.27 | |
| 9400.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 5839.88 | 5604.72 | 24.83 | |
| 9500.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 5740.06 | 5504.85 | 24.40 | |
| 9600.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 5640.25 | 5404.89 | 23.96 | |
| 9700.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 5540.45 | 5304.97 | 23.53 | |
| 9800.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 5440.66 | 5205.07 | 23.09 | |
| 9900.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 5340.87 | 5105.14 | 22.66 | |
| 10000.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 5241.09 | 5005.25 | 22.22 | |
| 10100.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 5141.32 | 4905.38 | 21.79 | |
| 10200.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 5041.56 | 4805.49 | 21.36 | |
| 10300.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 4941.81 | 4705.57 | 20.92 | |
| 10400.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 4842.06 | 4605.63 | 20.48 | |
| 10500.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 4742.33 | 4505.71 | 20.04 | |
| 10600.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 4642.61 | 4405.80 | 19.60 | |
| 10700.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 4542.91 | 4305.91 | 19.17 | |
| 10800.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 4443.21 | 4206.02 | 18.73 | |
| 10900.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 4343.54 | 4106.10 | 18.29 | |
| 11000.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 4243.87 | 4006.20 | 17.86 | |
| 11100.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 4144.22 | 3906.30 | 17.42 | |
| 11200.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 4044.59 | 3806.42 | 16.98 | |
| 11300.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 3944.98 | 3706.54 | 16.55 | |
| 11400.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 3845.39 | 3606.68 | 16.11 | |
| 11500.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 3745.82 | 3506.78 | 15.67 | |
| 11600.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 3646.27 | 3406.90 | 15.23 | |
| 11700.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 3546.75 | 3306.97 | 14.79 | |
| 11800.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 3447.26 | 3207.06 | 14.35 | |
| 11900.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 3347.79 | 3107.15 | 13.91 | |
| 12000.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 3248.36 | 3007.26 | 13.47 | |
| 12100.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 3148.97 | 2907.38 | 13.03 | |
| 12200.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 3049.61 | 2807.49 | 12.60 | |
| 12300.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 2950.30 | 2707.57 | 12.15 | |
| 12400.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 2851.04 | 2607.67 | 11.71 | |
| 12500.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 2751.83 | 2507.79 | 11.28 | |
| 12600.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 2652.68 | 2407.92 | 10.84 | |
| 12700.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 2553.60 | 2308.07 | 10.40 | |
| 12800.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 2454.59 | 2208.21 | 9.96 | |
| 12900.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 2355.66 | 2108.12 | 9.52 | |

5D Anti-Collision Report

| Secondary Well: Etter 30-32 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
|--|-------------------|------------|-----------|----------------|--------------------|--------------------|-------------------------|---------------|---------------|---------|---------|
| Pri MD (US ft) | Sec MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Risk |
| 13000.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 2256.83 | 2007.99 | 9.07 | |
| 13100.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 2158.11 | 1907.85 | 8.62 | |
| 13200.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 2059.51 | 1807.69 | 8.18 | |
| 13300.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 1961.05 | 1707.48 | 7.73 | |
| 13400.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 1862.76 | 1607.28 | 7.29 | |
| 13500.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 1764.65 | 1507.10 | 6.85 | |
| 13600.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 1666.78 | 1406.87 | 6.41 | |
| 13700.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 1569.17 | 1306.52 | 5.97 | |
| 13800.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 1471.88 | 1206.19 | 5.54 | |
| 13900.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 1374.98 | 1105.90 | 5.11 | |
| 14000.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 1278.56 | 1005.68 | 4.69 | |
| 14100.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 1182.73 | 905.58 | 4.27 | |
| 14200.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 1087.66 | 805.33 | 3.85 | |
| 14300.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 993.55 | 704.40 | 3.44 | |
| 14400.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 900.71 | 603.52 | 3.03 | |
| 14500.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 809.58 | 503.01 | 2.64 | |
| 14600.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 720.81 | 402.90 | 2.27 | SF(Lo) |
| 14700.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 635.38 | 302.58 | 1.91 | SF(Lo) |
| 14800.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 554.84 | 204.98 | 1.59 | SF(Lo) |
| 14900.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 481.66 | 110.61 | 1.30 | SF(Med) |
| 15000.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 419.69 | 24.15 | 1.06 | SF(Med) |
| 15100.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 374.54 | -44.28 | 0.89 | SF(Hi) |
| 15200.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 352.73 | -80.40 | 0.81 | SF(Hi) |
| 15300.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 358.56 | -72.26 | 0.83 | SF(Hi) |
| 15400.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 390.78 | -23.13 | 0.94 | SF(Hi) |
| 15500.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 443.67 | 53.12 | 1.14 | SF(Med) |
| 15600.00 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 510.87 | 142.26 | 1.39 | SF(Med) |
| 15600.60 | 7080.00 | 0.00 | 0.00 | 7097.00 | 212.48 | 212.48 | 90.00 | 511.31 | 142.83 | 1.39 | SF(Med) |
| Secondary Well: Goetzel 29-10G6 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
| Pri MD (US ft) | Sec MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Risk |
| 0.00 | 0.00 | 0.00 | 0.00 | 33.00 | 0.00 | 0.00 | 105.49 | 1515.37 | 1514.71 | 2294.68 | |
| 100.00 | 67.00 | 0.00 | 0.00 | 100.00 | 1.02 | 1.02 | 105.49 | 1515.01 | 1513.23 | 849.35 | |
| 200.00 | 167.00 | 0.00 | 0.00 | 200.00 | 2.54 | 2.54 | 105.49 | 1515.01 | 1511.49 | 429.75 | |
| 300.00 | 267.00 | 0.00 | 0.00 | 300.00 | 5.58 | 5.58 | 105.49 | 1515.01 | 1508.24 | 223.56 | |
| 400.00 | 367.00 | 0.00 | 0.00 | 400.00 | 8.61 | 8.61 | 105.49 | 1515.01 | 1504.98 | 151.07 | |
| 500.00 | 467.00 | 0.00 | 0.00 | 500.00 | 11.65 | 11.65 | 105.49 | 1515.01 | 1501.90 | 115.58 | |
| 600.00 | 567.00 | 0.00 | 0.00 | 600.00 | 14.69 | 14.69 | 105.49 | 1515.01 | 1498.65 | 92.61 | |
| 700.00 | 667.00 | 0.00 | 0.00 | 700.00 | 17.73 | 17.73 | 105.49 | 1515.01 | 1495.40 | 77.25 | |
| 800.00 | 767.00 | 0.00 | 0.00 | 800.00 | 20.76 | 20.76 | 105.49 | 1515.01 | 1492.15 | 66.27 | |
| 900.00 | 867.00 | 0.00 | 0.00 | 900.00 | 23.80 | 23.80 | 105.49 | 1515.01 | 1488.90 | 58.01 | |
| 1000.00 | 967.00 | 0.00 | 0.00 | 1000.00 | 26.84 | 26.84 | 105.49 | 1515.01 | 1485.65 | 51.59 | |
| 1100.00 | 1067.00 | 0.00 | 0.00 | 1100.00 | 29.87 | 29.87 | 105.49 | 1515.01 | 1482.40 | 46.45 | |
| 1200.00 | 1167.00 | 0.00 | 0.00 | 1200.00 | 32.91 | 32.91 | 350.22 | 1514.58 | 1478.72 | 42.23 | |
| 1300.00 | 1266.93 | 0.00 | 0.00 | 1299.93 | 35.94 | 35.94 | 350.18 | 1511.14 | 1472.07 | 38.67 | |
| 1400.00 | 1366.68 | 0.00 | 0.00 | 1399.68 | 38.97 | 38.97 | 350.11 | 1504.27 | 1461.99 | 35.58 | |
| 1500.00 | 1466.13 | 0.00 | 0.00 | 1499.13 | 41.99 | 41.99 | 350.01 | 1493.97 | 1448.48 | 32.84 | |
| 1600.00 | 1565.15 | 0.00 | 0.00 | 1598.15 | 45.00 | 45.00 | 349.87 | 1480.27 | 1431.58 | 30.40 | |
| 1700.00 | 1663.63 | 0.00 | 0.00 | 1696.63 | 47.99 | 47.99 | 349.69 | 1463.17 | 1411.28 | 28.20 | |
| 1800.00 | 1761.44 | 0.00 | 0.00 | 1794.44 | 50.96 | 50.96 | 349.46 | 1442.71 | 1387.65 | 26.20 | |
| 1900.00 | 1858.46 | 0.00 | 0.00 | 1891.46 | 53.91 | 53.91 | 349.19 | 1418.91 | 1360.67 | 24.36 | |
| 2000.00 | 1954.71 | 0.00 | 0.00 | 1987.71 | 56.83 | 56.83 | 348.93 | 1392.25 | 1330.82 | 22.67 | |
| 2100.00 | 2050.85 | 0.00 | 0.00 | 2083.85 | 59.75 | 59.75 | 348.71 | 1365.20 | 1300.61 | 21.13 | |
| 2200.00 | 2146.98 | 0.00 | 0.00 | 2179.98 | 62.67 | 62.67 | 348.48 | 1338.18 | 1270.40 | 19.74 | |
| 2300.00 | 2243.12 | 0.00 | 0.00 | 2276.12 | 65.59 | 65.59 | 348.24 | 1311.18 | 1240.22 | 18.48 | |
| 2400.00 | 2339.26 | 0.00 | 0.00 | 2372.26 | 68.51 | 68.51 | 347.99 | 1284.20 | 1210.04 | 17.32 | |
| 2500.00 | 2435.39 | 0.00 | 0.00 | 2468.39 | 71.43 | 71.43 | 347.73 | 1257.24 | 1179.88 | 16.25 | |

5D Anti-Collision Report

| Secondary Well: Goetzel 29-10G6 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
|--|-------------------|------------|-----------|----------------|--------------------|--------------------|-------------------------|---------------|---------------|-------|---------|
| Pri MD (US ft) | Sec MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Risk |
| 2600.00 | 2531.53 | 0.00 | 0.00 | 2564.53 | 74.35 | 74.35 | 347.46 | 1230.31 | 1149.73 | 15.27 | |
| 2700.00 | 2627.67 | 0.00 | 0.00 | 2660.67 | 77.27 | 77.27 | 347.17 | 1203.40 | 1119.61 | 14.36 | |
| 2800.00 | 2723.81 | 0.00 | 0.00 | 2756.81 | 80.19 | 80.19 | 346.88 | 1176.53 | 1089.51 | 13.52 | |
| 2900.00 | 2819.94 | 0.00 | 0.00 | 2852.94 | 83.11 | 83.11 | 346.57 | 1149.68 | 1059.44 | 12.74 | |
| 3000.00 | 2916.08 | 0.00 | 0.00 | 2949.08 | 86.03 | 86.03 | 346.24 | 1122.87 | 1029.40 | 12.01 | |
| 3100.00 | 3012.22 | 0.00 | 0.00 | 3045.22 | 88.95 | 88.95 | 345.90 | 1096.10 | 999.38 | 11.33 | |
| 3200.00 | 3108.35 | 0.00 | 0.00 | 3141.35 | 91.87 | 91.87 | 345.54 | 1069.36 | 969.41 | 10.70 | |
| 3300.00 | 3204.49 | 0.00 | 0.00 | 3237.49 | 94.79 | 94.79 | 345.16 | 1042.66 | 939.47 | 10.10 | |
| 3400.00 | 3300.63 | 0.00 | 0.00 | 3333.63 | 97.71 | 97.71 | 344.77 | 1016.01 | 909.58 | 9.55 | |
| 3500.00 | 3396.76 | 0.00 | 0.00 | 3429.76 | 100.62 | 100.62 | 344.35 | 989.40 | 879.73 | 9.02 | |
| 3600.00 | 3492.90 | 0.00 | 0.00 | 3525.90 | 103.54 | 103.54 | 343.91 | 962.85 | 849.93 | 8.53 | |
| 3700.00 | 3589.04 | 0.00 | 0.00 | 3622.04 | 106.46 | 106.46 | 343.44 | 936.35 | 820.17 | 8.06 | |
| 3800.00 | 3685.17 | 0.00 | 0.00 | 3718.17 | 109.38 | 109.38 | 342.95 | 909.92 | 790.48 | 7.62 | |
| 3900.00 | 3781.31 | 0.00 | 0.00 | 3814.31 | 112.30 | 112.30 | 342.43 | 883.55 | 760.86 | 7.20 | |
| 4000.00 | 3877.45 | 0.00 | 0.00 | 3910.45 | 115.22 | 115.22 | 341.88 | 857.25 | 731.32 | 6.81 | |
| 4100.00 | 3973.58 | 0.00 | 0.00 | 4006.58 | 118.14 | 118.14 | 341.29 | 831.04 | 701.87 | 6.43 | |
| 4200.00 | 4069.72 | 0.00 | 0.00 | 4102.72 | 121.06 | 121.06 | 340.66 | 804.91 | 672.52 | 6.08 | |
| 4300.00 | 4165.86 | 0.00 | 0.00 | 4198.86 | 123.98 | 123.98 | 339.99 | 778.87 | 643.28 | 5.74 | |
| 4400.00 | 4261.99 | 0.00 | 0.00 | 4294.99 | 126.90 | 126.90 | 339.28 | 752.95 | 614.16 | 5.43 | |
| 4500.00 | 4358.13 | 0.00 | 0.00 | 4391.13 | 129.82 | 129.82 | 338.52 | 727.14 | 585.02 | 5.12 | |
| 4600.00 | 4454.27 | 0.00 | 0.00 | 4487.27 | 132.74 | 132.74 | 337.70 | 701.46 | 555.86 | 4.82 | |
| 4700.00 | 4550.40 | 0.00 | 0.00 | 4583.40 | 135.66 | 135.66 | 336.82 | 675.93 | 526.83 | 4.53 | |
| 4800.00 | 4646.54 | 0.00 | 0.00 | 4679.54 | 138.58 | 138.58 | 335.87 | 650.56 | 497.97 | 4.26 | |
| 4900.00 | 4742.68 | 0.00 | 0.00 | 4775.68 | 141.50 | 141.50 | 334.85 | 625.37 | 469.30 | 4.01 | |
| 5000.00 | 4838.81 | 0.00 | 0.00 | 4871.81 | 144.42 | 144.42 | 333.74 | 600.39 | 440.86 | 3.76 | |
| 5100.00 | 4934.95 | 0.00 | 0.00 | 4967.95 | 147.34 | 147.34 | 332.53 | 575.64 | 412.69 | 3.53 | |
| 5200.00 | 5031.09 | 0.00 | 0.00 | 5064.09 | 150.26 | 150.26 | 331.23 | 551.15 | 384.85 | 3.31 | |
| 5300.00 | 5127.22 | 0.00 | 0.00 | 5160.22 | 153.18 | 153.18 | 329.80 | 526.97 | 357.32 | 3.11 | |
| 5400.00 | 5223.36 | 0.00 | 0.00 | 5256.36 | 156.10 | 156.10 | 328.24 | 503.13 | 329.98 | 2.91 | |
| 5500.00 | 5319.50 | 0.00 | 0.00 | 5352.50 | 159.02 | 159.02 | 326.53 | 479.68 | 302.60 | 2.71 | |
| 5600.00 | 5415.63 | 0.00 | 0.00 | 5448.63 | 161.94 | 161.94 | 324.65 | 456.69 | 275.76 | 2.52 | |
| 5700.00 | 5511.77 | 0.00 | 0.00 | 5544.77 | 164.85 | 164.85 | 322.57 | 434.22 | 249.60 | 2.35 | SF(Lo) |
| 5800.00 | 5607.91 | 0.00 | 0.00 | 5640.91 | 167.77 | 167.77 | 320.29 | 412.37 | 224.17 | 2.19 | SF(Lo) |
| 5900.00 | 5704.04 | 0.00 | 0.00 | 5737.04 | 170.69 | 170.69 | 317.75 | 391.24 | 199.27 | 2.04 | SF(Lo) |
| 6000.00 | 5800.18 | 0.00 | 0.00 | 5833.18 | 173.61 | 173.61 | 314.95 | 370.95 | 174.62 | 1.89 | SF(Lo) |
| 6100.00 | 5896.32 | 0.00 | 0.00 | 5929.32 | 176.53 | 176.53 | 311.84 | 351.64 | 151.35 | 1.76 | SF(Lo) |
| 6200.00 | 5992.45 | 0.00 | 0.00 | 6025.45 | 179.45 | 179.45 | 308.40 | 333.49 | 129.59 | 1.64 | SF(Lo) |
| 6300.00 | 6088.59 | 0.00 | 0.00 | 6121.59 | 182.37 | 182.37 | 304.59 | 316.69 | 107.96 | 1.52 | SF(Lo) |
| 6400.00 | 6184.73 | 0.00 | 0.00 | 6217.73 | 185.29 | 185.29 | 300.16 | 301.48 | 88.82 | 1.42 | SF(Med) |
| 6500.00 | 6282.27 | 0.00 | 0.00 | 6315.27 | 188.25 | 188.25 | 273.01 | 294.07 | 77.42 | 1.36 | SF(Med) |
| 6600.00 | 6381.21 | 0.00 | 0.00 | 6414.21 | 191.26 | 191.26 | 218.30 | 299.26 | 78.72 | 1.36 | SF(Med) |
| 6700.00 | 6479.63 | 0.00 | 0.00 | 6512.63 | 194.25 | 194.25 | 179.89 | 315.93 | 92.16 | 1.41 | SF(Med) |
| 6800.00 | 6575.62 | 0.00 | 0.00 | 6608.62 | 197.16 | 197.16 | 165.12 | 343.38 | 116.78 | 1.52 | SF(Lo) |
| 6900.00 | 6667.30 | 0.00 | 0.00 | 6700.30 | 199.95 | 199.95 | 158.59 | 381.34 | 152.44 | 1.67 | SF(Lo) |
| 7000.00 | 6752.89 | 0.00 | 0.00 | 6785.89 | 202.55 | 202.55 | 155.10 | 429.72 | 199.26 | 1.86 | SF(Lo) |
| 7100.00 | 6830.72 | 0.00 | 0.00 | 6863.72 | 204.91 | 204.91 | 152.62 | 488.25 | 255.54 | 2.10 | SF(Lo) |
| 7200.00 | 6899.29 | 0.00 | 0.00 | 6932.29 | 206.99 | 206.99 | 150.04 | 556.34 | 321.92 | 2.37 | SF(Lo) |
| 7300.00 | 6957.25 | 0.00 | 0.00 | 6990.25 | 208.75 | 208.75 | 146.47 | 633.02 | 397.71 | 2.69 | |
| 7400.00 | 7003.47 | 0.00 | 0.00 | 7036.47 | 210.16 | 210.16 | 140.80 | 716.99 | 481.44 | 3.04 | |
| 7500.00 | 7037.07 | 0.00 | 0.00 | 7070.07 | 211.18 | 211.18 | 131.19 | 806.68 | 570.07 | 3.41 | |
| 7600.00 | 7057.37 | 0.00 | 0.00 | 7090.37 | 211.79 | 211.79 | 114.65 | 900.35 | 663.43 | 3.80 | |
| 7700.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 996.14 | 759.46 | 4.21 | |
| 7800.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 1092.70 | 856.55 | 4.63 | |
| 7900.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 1189.83 | 954.16 | 5.05 | |
| 8000.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 1287.40 | 1052.26 | 5.48 | |
| 8100.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 1385.32 | 1150.38 | 5.90 | |
| 8200.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 1483.51 | 1248.54 | 6.31 | |
| 8300.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 1581.93 | 1347.03 | 6.73 | |

5D Anti-Collision Report

| Secondary Well: Goetzel 29-10G6 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
|--|-------------------|------------|-----------|----------------|--------------------|--------------------|-------------------------|---------------|---------------|-------|------|
| Pri MD (US ft) | Sec MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Risk |
| 8400.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 1680.54 | 1445.63 | 7.15 | |
| 8500.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 1779.30 | 1544.44 | 7.58 | |
| 8600.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 1878.19 | 1643.42 | 8.00 | |
| 8700.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 1977.19 | 1742.47 | 8.42 | |
| 8800.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 2076.29 | 1841.62 | 8.85 | |
| 8900.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 2175.48 | 1940.87 | 9.27 | |
| 9000.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 2274.73 | 2040.23 | 9.70 | |
| 9100.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 2374.05 | 2139.65 | 10.13 | |
| 9200.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 2473.42 | 2239.01 | 10.55 | |
| 9300.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 2572.84 | 2338.46 | 10.98 | |
| 9400.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 2672.30 | 2438.01 | 11.41 | |
| 9500.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 2771.80 | 2537.59 | 11.83 | |
| 9600.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 2871.34 | 2637.12 | 12.26 | |
| 9700.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 2970.91 | 2736.72 | 12.69 | |
| 9800.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 3070.50 | 2836.38 | 13.12 | |
| 9900.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 3170.13 | 2936.10 | 13.55 | |
| 10000.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 3269.77 | 3035.75 | 13.97 | |
| 10100.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 3369.44 | 3135.42 | 14.40 | |
| 10200.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 3469.12 | 3235.13 | 14.83 | |
| 10300.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 3568.82 | 3334.87 | 15.25 | |
| 10400.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 3668.54 | 3434.63 | 15.68 | |
| 10500.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 3768.28 | 3534.41 | 16.11 | |
| 10600.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 3868.02 | 3634.21 | 16.54 | |
| 10700.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 3967.78 | 3734.00 | 16.97 | |
| 10800.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 4067.55 | 3833.77 | 17.40 | |
| 10900.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 4167.34 | 3933.55 | 17.83 | |
| 11000.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 4267.13 | 4033.35 | 18.25 | |
| 11100.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 4366.93 | 4133.16 | 18.68 | |
| 11200.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 4466.74 | 4232.98 | 19.11 | |
| 11300.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 4566.56 | 4332.81 | 19.54 | |
| 11400.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 4666.39 | 4432.65 | 19.96 | |
| 11500.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 4766.22 | 4532.49 | 20.39 | |
| 11600.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 4866.07 | 4632.34 | 20.82 | |
| 11700.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 4965.91 | 4732.20 | 21.25 | |
| 11800.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 5065.77 | 4832.06 | 21.68 | |
| 11900.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 5165.63 | 4931.93 | 22.10 | |
| 12000.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 5265.49 | 5031.80 | 22.53 | |
| 12100.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 5365.36 | 5131.67 | 22.96 | |
| 12200.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 5465.24 | 5231.55 | 23.39 | |
| 12300.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 5565.11 | 5331.43 | 23.81 | |
| 12400.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 5665.00 | 5431.32 | 24.24 | |
| 12500.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 5764.88 | 5531.21 | 24.67 | |
| 12600.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 5864.78 | 5631.10 | 25.10 | |
| 12700.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 5964.67 | 5730.99 | 25.52 | |
| 12800.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 6064.57 | 5830.89 | 25.95 | |
| 12900.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 6164.47 | 5930.78 | 26.38 | |
| 13000.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 6264.37 | 6030.68 | 26.81 | |
| 13100.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 6364.28 | 6130.56 | 27.23 | |
| 13200.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 6464.19 | 6230.46 | 27.66 | |
| 13300.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 6564.11 | 6330.35 | 28.08 | |
| 13400.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 6664.02 | 6430.24 | 28.51 | |
| 13500.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 6763.94 | 6530.14 | 28.93 | |
| 13600.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 6863.86 | 6630.04 | 29.36 | |
| 13700.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 6963.78 | 6729.94 | 29.78 | |
| 13800.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 7063.71 | 6829.84 | 30.20 | |
| 13900.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 7163.64 | 6929.74 | 30.63 | |
| 14000.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 7263.57 | 7029.65 | 31.05 | |
| 14100.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 7363.50 | 7129.55 | 31.48 | |

5D Anti-Collision Report

| Secondary Well: Goetzel 29-10G6 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
|---|-------------------|------------|-----------|----------------|--------------------|--------------------|-------------------------|---------------|---------------|---------|------|
| Pri MD (US ft) | Sec MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Risk |
| 14200.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 7463.43 | 7229.46 | 31.90 | |
| 14300.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 7563.36 | 7329.37 | 32.32 | |
| 14400.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 7663.30 | 7429.28 | 32.75 | |
| 14500.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 7763.24 | 7529.19 | 33.17 | |
| 14600.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 7863.18 | 7629.10 | 33.59 | |
| 14700.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 7963.12 | 7729.01 | 34.01 | |
| 14800.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 8063.06 | 7828.92 | 34.44 | |
| 14900.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 8163.01 | 7928.83 | 34.86 | |
| 15000.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 8262.95 | 8028.75 | 35.28 | |
| 15100.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 8362.90 | 8128.66 | 35.70 | |
| 15200.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 8462.85 | 8228.58 | 36.12 | |
| 15300.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 8562.80 | 8328.49 | 36.55 | |
| 15400.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 8662.75 | 8428.41 | 36.97 | |
| 15500.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 8762.70 | 8528.32 | 37.39 | |
| 15600.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 8862.65 | 8628.24 | 37.81 | |
| 15600.60 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 90.00 | 8863.25 | 8628.84 | 37.81 | |
| Secondary Well: Lafarge West 30-35 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
| Pri MD (US ft) | Sec MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Risk |
| 0.00 | 0.00 | 0.00 | 0.00 | 25.00 | 0.00 | 0.00 | 257.69 | 6851.14 | 6850.41 | 9409.57 | |
| 100.00 | 75.00 | 0.00 | 0.00 | 100.00 | 1.14 | 1.14 | 257.69 | 6851.10 | 6849.12 | 3468.39 | |
| 200.00 | 175.00 | 0.00 | 0.00 | 200.00 | 2.78 | 2.78 | 257.69 | 6851.10 | 6847.25 | 1783.03 | |
| 300.00 | 275.00 | 0.00 | 0.00 | 300.00 | 5.82 | 5.82 | 257.69 | 6851.10 | 6844.00 | 964.75 | |
| 400.00 | 375.00 | 0.00 | 0.00 | 400.00 | 8.86 | 8.86 | 257.69 | 6851.10 | 6840.74 | 661.28 | |
| 500.00 | 475.00 | 0.00 | 0.00 | 500.00 | 11.89 | 11.89 | 257.69 | 6851.10 | 6837.65 | 509.47 | |
| 600.00 | 575.00 | 0.00 | 0.00 | 600.00 | 14.93 | 14.93 | 257.69 | 6851.10 | 6834.39 | 410.09 | |
| 700.00 | 675.00 | 0.00 | 0.00 | 700.00 | 17.97 | 17.97 | 257.69 | 6851.10 | 6831.13 | 343.15 | |
| 800.00 | 775.00 | 0.00 | 0.00 | 800.00 | 21.01 | 21.01 | 257.69 | 6851.10 | 6827.87 | 294.99 | |
| 900.00 | 875.00 | 0.00 | 0.00 | 900.00 | 24.04 | 24.04 | 257.69 | 6851.10 | 6824.61 | 258.69 | |
| 1000.00 | 975.00 | 0.00 | 0.00 | 1000.00 | 27.08 | 27.08 | 257.69 | 6851.10 | 6821.35 | 230.35 | |
| 1100.00 | 1075.00 | 0.00 | 0.00 | 1100.00 | 30.12 | 30.12 | 257.69 | 6851.10 | 6818.10 | 207.60 | |
| 1200.00 | 1175.00 | 0.00 | 0.00 | 1200.00 | 33.15 | 33.15 | 142.42 | 6851.44 | 6815.19 | 189.02 | |
| 1300.00 | 1274.93 | 0.00 | 0.00 | 1299.93 | 36.19 | 36.19 | 142.40 | 6854.21 | 6814.75 | 173.69 | |
| 1400.00 | 1374.68 | 0.00 | 0.00 | 1399.68 | 39.22 | 39.22 | 142.37 | 6859.74 | 6817.05 | 160.68 | |
| 1500.00 | 1474.13 | 0.00 | 0.00 | 1499.13 | 42.24 | 42.24 | 142.32 | 6868.03 | 6822.11 | 149.57 | |
| 1600.00 | 1573.15 | 0.00 | 0.00 | 1598.15 | 45.24 | 45.24 | 142.26 | 6879.08 | 6829.93 | 139.96 | |
| 1700.00 | 1671.63 | 0.00 | 0.00 | 1696.63 | 48.23 | 48.23 | 142.18 | 6892.89 | 6840.51 | 131.61 | |
| 1800.00 | 1769.44 | 0.00 | 0.00 | 1794.44 | 51.20 | 51.20 | 142.08 | 6909.43 | 6853.83 | 124.26 | |
| 1900.00 | 1866.46 | 0.00 | 0.00 | 1891.46 | 54.15 | 54.15 | 141.96 | 6928.72 | 6869.87 | 117.73 | |
| 2000.00 | 1962.71 | 0.00 | 0.00 | 1987.71 | 57.07 | 57.07 | 141.96 | 6950.37 | 6888.28 | 111.93 | |
| 2100.00 | 2058.85 | 0.00 | 0.00 | 2083.85 | 59.99 | 59.99 | 142.10 | 6972.39 | 6907.04 | 106.70 | |
| 2200.00 | 2154.98 | 0.00 | 0.00 | 2179.98 | 62.91 | 62.91 | 142.23 | 6994.45 | 6925.84 | 101.95 | |
| 2300.00 | 2251.12 | 0.00 | 0.00 | 2276.12 | 65.83 | 65.83 | 142.37 | 7016.54 | 6944.67 | 97.62 | |
| 2400.00 | 2347.26 | 0.00 | 0.00 | 2372.26 | 68.75 | 68.75 | 142.50 | 7038.68 | 6963.53 | 93.66 | |
| 2500.00 | 2443.39 | 0.00 | 0.00 | 2468.39 | 71.67 | 71.67 | 142.64 | 7060.85 | 6982.42 | 90.02 | |
| 2600.00 | 2539.53 | 0.00 | 0.00 | 2564.53 | 74.59 | 74.59 | 142.77 | 7083.06 | 7001.33 | 86.66 | |
| 2700.00 | 2635.67 | 0.00 | 0.00 | 2660.67 | 77.51 | 77.51 | 142.90 | 7105.31 | 7020.27 | 83.56 | |
| 2800.00 | 2731.81 | 0.00 | 0.00 | 2756.81 | 80.43 | 80.43 | 143.04 | 7127.59 | 7039.25 | 80.69 | |
| 2900.00 | 2827.94 | 0.00 | 0.00 | 2852.94 | 83.35 | 83.35 | 143.17 | 7149.91 | 7058.27 | 78.02 | |
| 3000.00 | 2924.08 | 0.00 | 0.00 | 2949.08 | 86.27 | 86.27 | 143.30 | 7172.27 | 7077.32 | 75.54 | |
| 3100.00 | 3020.22 | 0.00 | 0.00 | 3045.22 | 89.19 | 89.19 | 143.43 | 7194.66 | 7096.40 | 73.22 | |
| 3200.00 | 3116.35 | 0.00 | 0.00 | 3141.35 | 92.11 | 92.11 | 143.55 | 7217.09 | 7115.52 | 71.06 | |
| 3300.00 | 3212.49 | 0.00 | 0.00 | 3237.49 | 95.03 | 95.03 | 143.68 | 7239.55 | 7134.67 | 69.03 | |
| 3400.00 | 3308.63 | 0.00 | 0.00 | 3333.63 | 97.95 | 97.95 | 143.81 | 7262.05 | 7153.86 | 67.13 | |
| 3500.00 | 3404.76 | 0.00 | 0.00 | 3429.76 | 100.87 | 100.87 | 143.93 | 7284.58 | 7173.09 | 65.34 | |
| 3600.00 | 3500.90 | 0.00 | 0.00 | 3525.90 | 103.79 | 103.79 | 144.06 | 7307.15 | 7192.34 | 63.65 | |
| 3700.00 | 3597.04 | 0.00 | 0.00 | 3622.04 | 106.71 | 106.71 | 144.19 | 7329.75 | 7211.64 | 62.06 | |

5D Anti-Collision Report

| Secondary Well: Lafarge West 30-35 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
|---|-------------------|------------|-----------|----------------|--------------------|--------------------|-------------------------|---------------|---------------|-------|------|
| Pri MD (US ft) | Sec MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Risk |
| 3800.00 | 3693.17 | 0.00 | 0.00 | 3718.17 | 109.63 | 109.63 | 144.31 | 7352.38 | 7230.96 | 60.55 | |
| 3900.00 | 3789.31 | 0.00 | 0.00 | 3814.31 | 112.55 | 112.55 | 144.43 | 7375.05 | 7250.32 | 59.13 | |
| 4000.00 | 3885.45 | 0.00 | 0.00 | 3910.45 | 115.47 | 115.47 | 144.55 | 7397.75 | 7269.72 | 57.78 | |
| 4100.00 | 3981.58 | 0.00 | 0.00 | 4006.58 | 118.38 | 118.38 | 144.68 | 7420.48 | 7289.15 | 56.50 | |
| 4200.00 | 4077.72 | 0.00 | 0.00 | 4102.72 | 121.30 | 121.30 | 144.80 | 7443.25 | 7308.61 | 55.28 | |
| 4300.00 | 4173.86 | 0.00 | 0.00 | 4198.86 | 124.22 | 124.22 | 144.92 | 7466.04 | 7328.10 | 54.12 | |
| 4400.00 | 4269.99 | 0.00 | 0.00 | 4294.99 | 127.14 | 127.14 | 145.04 | 7488.87 | 7347.63 | 53.02 | |
| 4500.00 | 4366.13 | 0.00 | 0.00 | 4391.13 | 130.06 | 130.06 | 145.16 | 7511.73 | 7367.19 | 51.97 | |
| 4600.00 | 4462.27 | 0.00 | 0.00 | 4487.27 | 132.98 | 132.98 | 145.27 | 7534.62 | 7386.78 | 50.96 | |
| 4700.00 | 4558.40 | 0.00 | 0.00 | 4583.40 | 135.90 | 135.90 | 145.39 | 7557.55 | 7406.41 | 50.00 | |
| 4800.00 | 4654.54 | 0.00 | 0.00 | 4679.54 | 138.82 | 138.82 | 145.51 | 7580.50 | 7426.07 | 49.09 | |
| 4900.00 | 4750.68 | 0.00 | 0.00 | 4775.68 | 141.74 | 141.74 | 145.62 | 7603.48 | 7445.76 | 48.21 | |
| 5000.00 | 4846.81 | 0.00 | 0.00 | 4871.81 | 144.66 | 144.66 | 145.74 | 7626.50 | 7465.48 | 47.36 | |
| 5100.00 | 4942.95 | 0.00 | 0.00 | 4967.95 | 147.58 | 147.58 | 145.85 | 7649.54 | 7485.23 | 46.56 | |
| 5200.00 | 5039.09 | 0.00 | 0.00 | 5064.09 | 150.50 | 150.50 | 145.97 | 7672.61 | 7505.01 | 45.78 | |
| 5300.00 | 5135.22 | 0.00 | 0.00 | 5160.22 | 153.42 | 153.42 | 146.08 | 7695.72 | 7524.83 | 45.03 | |
| 5400.00 | 5231.36 | 0.00 | 0.00 | 5256.36 | 156.34 | 156.34 | 146.19 | 7718.85 | 7544.67 | 44.32 | |
| 5500.00 | 5327.50 | 0.00 | 0.00 | 5352.50 | 159.26 | 159.26 | 146.31 | 7742.01 | 7564.55 | 43.63 | |
| 5600.00 | 5423.63 | 0.00 | 0.00 | 5448.63 | 162.18 | 162.18 | 146.42 | 7765.20 | 7584.46 | 42.96 | |
| 5700.00 | 5519.77 | 0.00 | 0.00 | 5544.77 | 165.10 | 165.10 | 146.53 | 7788.41 | 7604.39 | 42.32 | |
| 5800.00 | 5615.91 | 0.00 | 0.00 | 5640.91 | 168.02 | 168.02 | 146.64 | 7811.66 | 7624.36 | 41.71 | |
| 5900.00 | 5712.04 | 0.00 | 0.00 | 5737.04 | 170.94 | 170.94 | 146.75 | 7834.93 | 7644.36 | 41.11 | |
| 6000.00 | 5808.18 | 0.00 | 0.00 | 5833.18 | 173.86 | 173.86 | 146.86 | 7858.23 | 7664.38 | 40.54 | |
| 6100.00 | 5904.32 | 0.00 | 0.00 | 5929.32 | 176.78 | 176.78 | 146.96 | 7881.56 | 7684.44 | 39.98 | |
| 6200.00 | 6000.45 | 0.00 | 0.00 | 6025.45 | 179.70 | 179.70 | 147.07 | 7904.92 | 7704.52 | 39.45 | |
| 6300.00 | 6096.59 | 0.00 | 0.00 | 6121.59 | 182.61 | 182.61 | 147.18 | 7928.30 | 7724.63 | 38.93 | |
| 6400.00 | 6192.73 | 0.00 | 0.00 | 6217.73 | 185.53 | 185.53 | 147.03 | 7951.70 | 7744.77 | 38.43 | |
| 6500.00 | 6290.27 | 0.00 | 0.00 | 6315.27 | 188.50 | 188.50 | 123.59 | 7968.04 | 7757.91 | 37.92 | |
| 6600.00 | 6389.21 | 0.00 | 0.00 | 6414.21 | 191.50 | 191.50 | 71.71 | 7970.53 | 7757.22 | 37.37 | |
| 6700.00 | 6487.63 | 0.00 | 0.00 | 6512.63 | 194.49 | 194.49 | 34.99 | 7959.15 | 7742.71 | 36.77 | |
| 6800.00 | 6583.62 | 0.00 | 0.00 | 6608.62 | 197.41 | 197.41 | 20.87 | 7934.09 | 7714.66 | 36.16 | |
| 6900.00 | 6675.30 | 0.00 | 0.00 | 6700.30 | 200.19 | 200.19 | 14.32 | 7895.85 | 7673.59 | 35.53 | |
| 7000.00 | 6760.89 | 0.00 | 0.00 | 6785.89 | 202.79 | 202.79 | 10.60 | 7845.16 | 7620.30 | 34.89 | |
| 7100.00 | 6838.72 | 0.00 | 0.00 | 6863.72 | 205.15 | 205.15 | 8.14 | 7783.01 | 7555.80 | 34.26 | |
| 7200.00 | 6907.29 | 0.00 | 0.00 | 6932.29 | 207.23 | 207.23 | 6.26 | 7710.59 | 7481.34 | 33.63 | |
| 7300.00 | 6965.25 | 0.00 | 0.00 | 6990.25 | 208.99 | 208.99 | 4.53 | 7629.32 | 7398.36 | 33.03 | |
| 7400.00 | 7011.47 | 0.00 | 0.00 | 7036.47 | 210.40 | 210.40 | 2.51 | 7540.78 | 7308.46 | 32.46 | |
| 7500.00 | 7045.07 | 0.00 | 0.00 | 7070.07 | 211.42 | 211.42 | 359.19 | 7446.68 | 7213.43 | 31.93 | |
| 7600.00 | 7065.37 | 0.00 | 0.00 | 7090.37 | 212.04 | 212.04 | 350.01 | 7348.85 | 7114.95 | 31.42 | |
| 7700.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 7249.21 | 7015.13 | 30.97 | |
| 7800.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 7149.31 | 6915.24 | 30.54 | |
| 7900.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 7049.40 | 6815.33 | 30.12 | |
| 8000.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 6949.50 | 6715.47 | 29.69 | |
| 8100.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 6849.60 | 6615.53 | 29.26 | |
| 8200.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 6749.71 | 6515.69 | 28.84 | |
| 8300.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 6649.81 | 6415.82 | 28.42 | |
| 8400.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 6549.93 | 6315.93 | 27.99 | |
| 8500.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 6450.04 | 6216.08 | 27.57 | |
| 8600.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 6350.16 | 6116.24 | 27.15 | |
| 8700.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 6250.28 | 6016.34 | 26.72 | |
| 8800.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 6150.41 | 5916.47 | 26.29 | |
| 8900.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 6050.54 | 5816.62 | 25.87 | |
| 9000.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 5950.67 | 5716.81 | 25.45 | |
| 9100.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 5850.81 | 5616.97 | 25.02 | |
| 9200.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 5750.95 | 5517.06 | 24.59 | |
| 9300.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 5651.10 | 5417.21 | 24.16 | |
| 9400.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 5551.26 | 5317.40 | 23.74 | |
| 9500.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 5451.42 | 5217.55 | 23.31 | |

5D Anti-Collision Report

| Secondary Well: Lafarge West 30-35 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
|---|-------------------|------------|-----------|----------------|--------------------|--------------------|-------------------------|---------------|---------------|-------|---------|
| Pri MD (US ft) | Sec MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Risk |
| 9600.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 5351.58 | 5117.67 | 22.88 | |
| 9700.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 5251.76 | 5017.82 | 22.45 | |
| 9800.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 5151.94 | 4918.01 | 22.02 | |
| 9900.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 5052.12 | 4818.21 | 21.60 | |
| 10000.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 4952.32 | 4718.33 | 21.17 | |
| 10100.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 4852.52 | 4618.49 | 20.73 | |
| 10200.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 4752.73 | 4518.66 | 20.30 | |
| 10300.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 4652.95 | 4418.85 | 19.88 | |
| 10400.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 4553.17 | 4319.06 | 19.45 | |
| 10500.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 4453.41 | 4219.28 | 19.02 | |
| 10600.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 4353.66 | 4119.52 | 18.59 | |
| 10700.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 4253.93 | 4019.73 | 18.16 | |
| 10800.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 4154.20 | 3919.91 | 17.73 | |
| 10900.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 4054.49 | 3820.10 | 17.30 | |
| 11000.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 3954.79 | 3720.31 | 16.87 | |
| 11100.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 3855.11 | 3620.53 | 16.43 | |
| 11200.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 3755.44 | 3520.77 | 16.00 | |
| 11300.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 3655.80 | 3420.98 | 15.57 | |
| 11400.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 3556.17 | 3321.21 | 15.14 | |
| 11500.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 3456.56 | 3221.45 | 14.70 | |
| 11600.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 3356.98 | 3121.71 | 14.27 | |
| 11700.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 3257.42 | 3021.96 | 13.83 | |
| 11800.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 3157.90 | 2922.21 | 13.40 | |
| 11900.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 3058.40 | 2822.47 | 12.96 | |
| 12000.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 2958.94 | 2722.75 | 12.53 | |
| 12100.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 2859.51 | 2622.97 | 12.09 | |
| 12200.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 2760.12 | 2523.18 | 11.65 | |
| 12300.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 2660.79 | 2423.40 | 11.21 | |
| 12400.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 2561.50 | 2323.65 | 10.77 | |
| 12500.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 2462.27 | 2223.89 | 10.33 | |
| 12600.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 2363.10 | 2124.11 | 9.89 | |
| 12700.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 2264.01 | 2024.36 | 9.45 | |
| 12800.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 2165.00 | 1924.64 | 9.01 | |
| 12900.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 2066.09 | 1824.81 | 8.56 | |
| 13000.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 1967.29 | 1724.94 | 8.12 | |
| 13100.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 1868.62 | 1625.07 | 7.67 | |
| 13200.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 1770.09 | 1525.23 | 7.23 | |
| 13300.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 1671.74 | 1425.44 | 6.79 | |
| 13400.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 1573.60 | 1325.52 | 6.34 | |
| 13500.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 1475.70 | 1225.29 | 5.89 | |
| 13600.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 1378.11 | 1124.77 | 5.44 | |
| 13700.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 1280.89 | 1024.22 | 4.99 | |
| 13800.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 1184.14 | 923.58 | 4.54 | |
| 13900.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 1087.97 | 822.73 | 4.10 | |
| 14000.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 992.56 | 721.93 | 3.67 | |
| 14100.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 898.14 | 621.30 | 3.24 | |
| 14200.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 805.08 | 520.34 | 2.83 | |
| 14300.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 713.90 | 418.32 | 2.42 | SF(Lo) |
| 14400.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 625.41 | 316.99 | 2.03 | SF(Lo) |
| 14500.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 540.96 | 215.48 | 1.66 | SF(Lo) |
| 14600.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 462.74 | 116.61 | 1.34 | SF(Med) |
| 14700.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 394.49 | 22.56 | 1.06 | SF(Med) |
| 14800.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 342.22 | -58.78 | 0.85 | SF(Hi) |
| 14900.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 314.02 | -107.69 | 0.74 | SF(Hi) |
| 15000.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 316.39 | -108.30 | 0.74 | SF(Hi) |
| 15100.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 348.70 | -60.74 | 0.85 | SF(Hi) |
| 15200.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 403.84 | 18.08 | 1.05 | SF(Med) |
| 15300.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 473.90 | 110.30 | 1.30 | SF(Med) |

5D Anti-Collision Report

| Secondary Well: Lafarge West 30-35 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
|---|-------------------|------------|-----------|----------------|--------------------|--------------------|-------------------------|---------------|---------------|---------|--------|
| Pri MD (US ft) | Sec MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Risk |
| 15400.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 553.24 | 208.00 | 1.60 | SF(Lo) |
| 15500.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 638.41 | 308.64 | 1.94 | SF(Lo) |
| 15600.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 727.37 | 409.13 | 2.29 | SF(Lo) |
| 15600.60 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 727.91 | 409.74 | 2.29 | SF(Lo) |
| Secondary Well: Firestien #30-45 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
| Pri MD (US ft) | Sec MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Risk |
| 0.00 | 0.00 | 0.00 | 0.00 | 25.00 | 0.00 | 0.00 | 250.79 | 3768.80 | 3768.07 | 5176.17 | |
| 100.00 | 75.00 | 0.00 | 0.00 | 100.00 | 1.14 | 1.14 | 250.79 | 3768.72 | 3766.74 | 1907.06 | |
| 200.00 | 175.00 | 0.00 | 0.00 | 200.00 | 2.78 | 2.78 | 250.79 | 3768.72 | 3764.87 | 980.26 | |
| 300.00 | 275.00 | 0.00 | 0.00 | 300.00 | 5.82 | 5.82 | 250.79 | 3768.72 | 3761.61 | 530.36 | |
| 400.00 | 375.00 | 0.00 | 0.00 | 400.00 | 8.86 | 8.86 | 250.79 | 3768.72 | 3758.35 | 363.52 | |
| 500.00 | 475.00 | 0.00 | 0.00 | 500.00 | 11.89 | 11.89 | 250.79 | 3768.72 | 3755.26 | 280.06 | |
| 600.00 | 575.00 | 0.00 | 0.00 | 600.00 | 14.93 | 14.93 | 250.79 | 3768.72 | 3752.00 | 225.43 | |
| 700.00 | 675.00 | 0.00 | 0.00 | 700.00 | 17.97 | 17.97 | 250.79 | 3768.72 | 3748.74 | 188.63 | |
| 800.00 | 775.00 | 0.00 | 0.00 | 800.00 | 21.01 | 21.01 | 250.79 | 3768.72 | 3745.48 | 162.16 | |
| 900.00 | 875.00 | 0.00 | 0.00 | 900.00 | 24.04 | 24.04 | 250.79 | 3768.72 | 3742.22 | 142.20 | |
| 1000.00 | 975.00 | 0.00 | 0.00 | 1000.00 | 27.08 | 27.08 | 250.79 | 3768.72 | 3738.96 | 126.62 | |
| 1100.00 | 1075.00 | 0.00 | 0.00 | 1100.00 | 30.12 | 30.12 | 250.79 | 3768.72 | 3735.69 | 114.12 | |
| 1200.00 | 1175.00 | 0.00 | 0.00 | 1200.00 | 33.15 | 33.15 | 135.52 | 3769.03 | 3732.76 | 103.93 | |
| 1300.00 | 1274.93 | 0.00 | 0.00 | 1299.93 | 36.19 | 36.19 | 135.53 | 3771.52 | 3732.03 | 95.49 | |
| 1400.00 | 1374.68 | 0.00 | 0.00 | 1399.68 | 39.22 | 39.22 | 135.53 | 3776.50 | 3733.79 | 88.41 | |
| 1500.00 | 1474.13 | 0.00 | 0.00 | 1499.13 | 42.24 | 42.24 | 135.53 | 3783.98 | 3738.04 | 82.36 | |
| 1600.00 | 1573.15 | 0.00 | 0.00 | 1598.15 | 45.24 | 45.24 | 135.54 | 3793.97 | 3744.78 | 77.14 | |
| 1700.00 | 1671.63 | 0.00 | 0.00 | 1696.63 | 48.23 | 48.23 | 135.55 | 3806.45 | 3754.05 | 72.64 | |
| 1800.00 | 1769.44 | 0.00 | 0.00 | 1794.44 | 51.20 | 51.20 | 135.55 | 3821.46 | 3765.82 | 68.69 | |
| 1900.00 | 1866.46 | 0.00 | 0.00 | 1891.46 | 54.15 | 54.15 | 135.55 | 3838.98 | 3780.10 | 65.20 | |
| 2000.00 | 1962.71 | 0.00 | 0.00 | 1987.71 | 57.07 | 57.07 | 135.69 | 3858.71 | 3796.57 | 62.10 | |
| 2100.00 | 2058.85 | 0.00 | 0.00 | 2083.85 | 59.99 | 59.99 | 135.97 | 3878.83 | 3813.43 | 59.31 | |
| 2200.00 | 2154.98 | 0.00 | 0.00 | 2179.98 | 62.91 | 62.91 | 136.25 | 3899.04 | 3830.37 | 56.77 | |
| 2300.00 | 2251.12 | 0.00 | 0.00 | 2276.12 | 65.83 | 65.83 | 136.52 | 3919.34 | 3847.39 | 54.47 | |
| 2400.00 | 2347.26 | 0.00 | 0.00 | 2372.26 | 68.75 | 68.75 | 136.79 | 3939.73 | 3864.49 | 52.36 | |
| 2500.00 | 2443.39 | 0.00 | 0.00 | 2468.39 | 71.67 | 71.67 | 137.06 | 3960.20 | 3881.68 | 50.43 | |
| 2600.00 | 2539.53 | 0.00 | 0.00 | 2564.53 | 74.59 | 74.59 | 137.32 | 3980.76 | 3898.95 | 48.66 | |
| 2700.00 | 2635.67 | 0.00 | 0.00 | 2660.67 | 77.51 | 77.51 | 137.59 | 4001.40 | 3916.31 | 47.02 | |
| 2800.00 | 2731.81 | 0.00 | 0.00 | 2756.81 | 80.43 | 80.43 | 137.85 | 4022.12 | 3933.74 | 45.51 | |
| 2900.00 | 2827.94 | 0.00 | 0.00 | 2852.94 | 83.35 | 83.35 | 138.10 | 4042.93 | 3951.27 | 44.11 | |
| 3000.00 | 2924.08 | 0.00 | 0.00 | 2949.08 | 86.27 | 86.27 | 138.36 | 4063.81 | 3968.87 | 42.80 | |
| 3100.00 | 3020.22 | 0.00 | 0.00 | 3045.22 | 89.19 | 89.19 | 138.61 | 4084.78 | 3986.56 | 41.59 | |
| 3200.00 | 3116.35 | 0.00 | 0.00 | 3141.35 | 92.11 | 92.11 | 138.86 | 4105.82 | 4004.25 | 40.43 | |
| 3300.00 | 3212.49 | 0.00 | 0.00 | 3237.49 | 95.03 | 95.03 | 139.11 | 4126.93 | 4022.03 | 39.34 | |
| 3400.00 | 3308.63 | 0.00 | 0.00 | 3333.63 | 97.95 | 97.95 | 139.35 | 4148.13 | 4039.87 | 38.32 | |
| 3500.00 | 3404.76 | 0.00 | 0.00 | 3429.76 | 100.87 | 100.87 | 139.60 | 4169.39 | 4057.80 | 37.36 | |
| 3600.00 | 3500.90 | 0.00 | 0.00 | 3525.90 | 103.79 | 103.79 | 139.84 | 4190.73 | 4075.79 | 36.46 | |
| 3700.00 | 3597.04 | 0.00 | 0.00 | 3622.04 | 106.71 | 106.71 | 140.07 | 4212.14 | 4093.86 | 35.61 | |
| 3800.00 | 3693.17 | 0.00 | 0.00 | 3718.17 | 109.63 | 109.63 | 140.31 | 4233.63 | 4112.01 | 34.81 | |
| 3900.00 | 3789.31 | 0.00 | 0.00 | 3814.31 | 112.55 | 112.55 | 140.54 | 4255.18 | 4130.22 | 34.05 | |
| 4000.00 | 3885.45 | 0.00 | 0.00 | 3910.45 | 115.47 | 115.47 | 140.77 | 4276.80 | 4148.50 | 33.34 | |
| 4100.00 | 3981.58 | 0.00 | 0.00 | 4006.58 | 118.38 | 118.38 | 141.00 | 4298.49 | 4166.85 | 32.66 | |
| 4200.00 | 4077.72 | 0.00 | 0.00 | 4102.72 | 121.30 | 121.30 | 141.23 | 4320.24 | 4185.28 | 32.01 | |
| 4300.00 | 4173.86 | 0.00 | 0.00 | 4198.86 | 124.22 | 124.22 | 141.45 | 4342.06 | 4203.77 | 31.40 | |
| 4400.00 | 4269.99 | 0.00 | 0.00 | 4294.99 | 127.14 | 127.14 | 141.67 | 4363.94 | 4222.32 | 30.81 | |
| 4500.00 | 4366.13 | 0.00 | 0.00 | 4391.13 | 130.06 | 130.06 | 141.89 | 4385.89 | 4240.94 | 30.26 | |
| 4600.00 | 4462.27 | 0.00 | 0.00 | 4487.27 | 132.98 | 132.98 | 142.11 | 4407.90 | 4259.63 | 29.73 | |
| 4700.00 | 4558.40 | 0.00 | 0.00 | 4583.40 | 135.90 | 135.90 | 142.33 | 4429.97 | 4278.38 | 29.22 | |
| 4800.00 | 4654.54 | 0.00 | 0.00 | 4679.54 | 138.82 | 138.82 | 142.54 | 4452.11 | 4297.20 | 28.74 | |
| 4900.00 | 4750.68 | 0.00 | 0.00 | 4775.68 | 141.74 | 141.74 | 142.75 | 4474.30 | 4316.08 | 28.28 | |

5D Anti-Collision Report

| Secondary Well: Firestien #30-45 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
|---|-------------------|------------|-----------|----------------|--------------------|--------------------|-------------------------|---------------|---------------|-------|------|
| Pri MD (US ft) | Sec MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Risk |
| 5000.00 | 4846.81 | 0.00 | 0.00 | 4871.81 | 144.66 | 144.66 | 142.96 | 4496.55 | 4335.02 | 27.84 | |
| 5100.00 | 4942.95 | 0.00 | 0.00 | 4967.95 | 147.58 | 147.58 | 143.17 | 4518.86 | 4354.02 | 27.41 | |
| 5200.00 | 5039.09 | 0.00 | 0.00 | 5064.09 | 150.50 | 150.50 | 143.37 | 4541.23 | 4373.08 | 27.01 | |
| 5300.00 | 5135.22 | 0.00 | 0.00 | 5160.22 | 153.42 | 153.42 | 143.58 | 4563.65 | 4392.20 | 26.62 | |
| 5400.00 | 5231.36 | 0.00 | 0.00 | 5256.36 | 156.34 | 156.34 | 143.78 | 4586.13 | 4411.38 | 26.24 | |
| 5500.00 | 5327.50 | 0.00 | 0.00 | 5352.50 | 159.26 | 159.26 | 143.98 | 4608.67 | 4430.62 | 25.88 | |
| 5600.00 | 5423.63 | 0.00 | 0.00 | 5448.63 | 162.18 | 162.18 | 144.18 | 4631.25 | 4449.92 | 25.54 | |
| 5700.00 | 5519.77 | 0.00 | 0.00 | 5544.77 | 165.10 | 165.10 | 144.37 | 4653.89 | 4469.27 | 25.21 | |
| 5800.00 | 5615.91 | 0.00 | 0.00 | 5640.91 | 168.02 | 168.02 | 144.57 | 4676.59 | 4488.68 | 24.89 | |
| 5900.00 | 5712.04 | 0.00 | 0.00 | 5737.04 | 170.94 | 170.94 | 144.76 | 4699.33 | 4508.14 | 24.58 | |
| 6000.00 | 5808.18 | 0.00 | 0.00 | 5833.18 | 173.86 | 173.86 | 144.95 | 4722.13 | 4527.66 | 24.28 | |
| 6100.00 | 5904.32 | 0.00 | 0.00 | 5929.32 | 176.78 | 176.78 | 145.14 | 4744.98 | 4547.23 | 24.00 | |
| 6200.00 | 6000.45 | 0.00 | 0.00 | 6025.45 | 179.70 | 179.70 | 145.32 | 4767.87 | 4566.86 | 23.72 | |
| 6300.00 | 6096.59 | 0.00 | 0.00 | 6121.59 | 182.61 | 182.61 | 145.51 | 4790.82 | 4586.53 | 23.45 | |
| 6400.00 | 6192.73 | 0.00 | 0.00 | 6217.73 | 185.53 | 185.53 | 145.43 | 4813.81 | 4606.26 | 23.19 | |
| 6500.00 | 6290.27 | 0.00 | 0.00 | 6315.27 | 188.50 | 188.50 | 122.11 | 4829.75 | 4619.02 | 22.92 | |
| 6600.00 | 6389.21 | 0.00 | 0.00 | 6414.21 | 191.50 | 191.50 | 70.29 | 4831.90 | 4617.99 | 22.59 | |
| 6700.00 | 6487.63 | 0.00 | 0.00 | 6512.63 | 194.49 | 194.49 | 33.60 | 4820.20 | 4603.18 | 22.21 | |
| 6800.00 | 6583.62 | 0.00 | 0.00 | 6608.62 | 197.41 | 197.41 | 19.48 | 4794.87 | 4574.86 | 21.79 | |
| 6900.00 | 6675.30 | 0.00 | 0.00 | 6700.30 | 200.19 | 200.19 | 12.90 | 4756.39 | 4533.58 | 21.35 | |
| 7000.00 | 6760.89 | 0.00 | 0.00 | 6785.89 | 202.79 | 202.79 | 9.09 | 4705.51 | 4480.10 | 20.88 | |
| 7100.00 | 6838.72 | 0.00 | 0.00 | 6863.72 | 205.15 | 205.15 | 6.48 | 4643.20 | 4415.45 | 20.39 | |
| 7200.00 | 6907.29 | 0.00 | 0.00 | 6932.29 | 207.23 | 207.23 | 4.35 | 4570.67 | 4340.88 | 19.89 | |
| 7300.00 | 6965.25 | 0.00 | 0.00 | 6990.25 | 208.99 | 208.99 | 2.21 | 4489.32 | 4257.82 | 19.39 | |
| 7400.00 | 7011.47 | 0.00 | 0.00 | 7036.47 | 210.40 | 210.40 | 359.44 | 4400.74 | 4167.88 | 18.90 | |
| 7500.00 | 7045.07 | 0.00 | 0.00 | 7070.07 | 211.42 | 211.42 | 354.58 | 4306.65 | 4072.84 | 18.42 | |
| 7600.00 | 7065.37 | 0.00 | 0.00 | 7090.37 | 212.04 | 212.04 | 341.08 | 4208.88 | 3974.48 | 17.96 | |
| 7700.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 4109.34 | 3874.71 | 17.51 | |
| 7800.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 4009.57 | 3775.01 | 17.09 | |
| 7900.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 3909.80 | 3675.18 | 16.66 | |
| 8000.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 3810.05 | 3575.49 | 16.24 | |
| 8100.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 3710.31 | 3475.71 | 15.82 | |
| 8200.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 3610.59 | 3375.99 | 15.39 | |
| 8300.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 3510.88 | 3276.32 | 14.97 | |
| 8400.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 3411.19 | 3176.69 | 14.55 | |
| 8500.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 3311.52 | 3077.01 | 14.12 | |
| 8600.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 3211.87 | 2977.38 | 13.70 | |
| 8700.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 3112.24 | 2877.69 | 13.27 | |
| 8800.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 3012.64 | 2778.05 | 12.84 | |
| 8900.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 2913.06 | 2678.45 | 12.42 | |
| 9000.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 2813.52 | 2578.92 | 11.99 | |
| 9100.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 2714.00 | 2479.41 | 11.57 | |
| 9200.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 2614.53 | 2379.86 | 11.14 | |
| 9300.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 2515.09 | 2280.38 | 10.72 | |
| 9400.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 2415.71 | 2180.95 | 10.29 | |
| 9500.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 2316.37 | 2081.56 | 9.86 | |
| 9600.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 2217.09 | 1982.11 | 9.44 | |
| 9700.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 2117.89 | 1882.76 | 9.01 | |
| 9800.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 2018.76 | 1783.51 | 8.58 | |
| 9900.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 1919.72 | 1684.26 | 8.15 | |
| 10000.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 1820.79 | 1585.09 | 7.73 | |
| 10100.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 1721.98 | 1486.04 | 7.30 | |
| 10200.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 1623.31 | 1386.98 | 6.87 | |
| 10300.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 1524.82 | 1288.05 | 6.44 | |
| 10400.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 1426.54 | 1189.22 | 6.01 | |
| 10500.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 1328.52 | 1090.39 | 5.58 | |
| 10600.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 1230.81 | 991.29 | 5.14 | |
| 10700.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 1133.50 | 892.21 | 4.70 | |

5D Anti-Collision Report

| Secondary Well: Firestien #30-45 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
|---|-------------------|------------|-----------|----------------|--------------------|--------------------|-------------------------|---------------|---------------|---------|---------|
| Pri MD (US ft) | Sec MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Risk |
| 10800.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 1036.71 | 793.41 | 4.26 | |
| 10900.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 940.59 | 694.65 | 3.82 | |
| 11000.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 845.37 | 596.28 | 3.39 | |
| 11100.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 751.39 | 498.75 | 2.97 | |
| 11200.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 659.18 | 400.29 | 2.55 | |
| 11300.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 569.62 | 302.99 | 2.14 | SF(Lo) |
| 11400.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 484.15 | 207.44 | 1.75 | SF(Lo) |
| 11500.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 405.39 | 115.20 | 1.40 | SF(Med) |
| 11600.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 338.05 | 29.86 | 1.10 | SF(Med) |
| 11700.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 290.20 | -37.09 | 0.89 | SF(Hi) |
| 11800.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 272.31 | -66.81 | 0.80 | SF(Hi) |
| 11900.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 289.99 | -45.46 | 0.86 | SF(Hi) |
| 12000.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 337.69 | 15.46 | 1.05 | SF(Med) |
| 12100.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 404.93 | 97.15 | 1.32 | SF(Med) |
| 12200.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 483.64 | 188.09 | 1.64 | SF(Lo) |
| 12300.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 569.08 | 283.70 | 1.99 | SF(Lo) |
| 12400.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 658.62 | 379.90 | 2.36 | SF(Lo) |
| 12500.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 750.82 | 477.67 | 2.75 | |
| 12600.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 844.79 | 576.55 | 3.15 | |
| 12700.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 940.00 | 675.09 | 3.55 | |
| 12800.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 1036.12 | 773.87 | 3.95 | |
| 12900.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 1132.91 | 873.03 | 4.36 | |
| 13000.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 1230.21 | 972.41 | 4.77 | |
| 13100.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 1327.91 | 1071.81 | 5.18 | |
| 13200.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 1425.94 | 1171.34 | 5.60 | |
| 13300.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 1524.22 | 1270.98 | 6.02 | |
| 13400.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 1622.70 | 1370.69 | 6.44 | |
| 13500.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 1721.37 | 1470.46 | 6.86 | |
| 13600.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 1820.18 | 1570.25 | 7.28 | |
| 13700.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 1919.11 | 1669.95 | 7.70 | |
| 13800.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 2018.15 | 1769.53 | 8.12 | |
| 13900.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 2117.28 | 1869.15 | 8.53 | |
| 14000.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 2216.48 | 1968.82 | 8.95 | |
| 14100.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 2315.76 | 2068.49 | 9.37 | |
| 14200.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 2415.09 | 2168.16 | 9.78 | |
| 14300.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 2514.48 | 2267.85 | 10.20 | |
| 14400.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 2613.92 | 2367.56 | 10.61 | |
| 14500.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 2713.39 | 2467.30 | 11.03 | |
| 14600.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 2812.90 | 2567.06 | 11.44 | |
| 14700.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 2912.45 | 2666.83 | 11.86 | |
| 14800.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 3012.03 | 2766.62 | 12.27 | |
| 14900.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 3111.63 | 2866.42 | 12.69 | |
| 15000.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 3211.26 | 2966.24 | 13.11 | |
| 15100.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 3310.91 | 3066.06 | 13.52 | |
| 15200.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 3410.58 | 3165.89 | 13.94 | |
| 15300.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 3510.27 | 3265.74 | 14.35 | |
| 15400.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 3609.98 | 3365.58 | 14.77 | |
| 15500.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 3709.70 | 3465.44 | 15.19 | |
| 15600.00 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 3809.44 | 3565.30 | 15.60 | |
| 15600.60 | 7072.00 | 0.00 | 0.00 | 7097.00 | 212.24 | 212.24 | 270.00 | 3810.04 | 3565.90 | 15.61 | |
| Secondary Well: Tigges 30-34 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
| Pri MD (US ft) | Sec MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Risk |
| 0.00 | 0.00 | 0.00 | 0.00 | 33.00 | 0.00 | 0.00 | 253.56 | 5793.62 | 5792.90 | 7957.19 | |
| 100.00 | 67.00 | 0.00 | 0.00 | 100.00 | 1.02 | 1.02 | 253.56 | 5793.53 | 5791.68 | 3126.98 | |
| 200.00 | 167.00 | 0.00 | 0.00 | 200.00 | 2.54 | 2.54 | 253.56 | 5793.53 | 5789.93 | 1610.92 | |
| 300.00 | 267.00 | 0.00 | 0.00 | 300.00 | 5.58 | 5.58 | 253.56 | 5793.53 | 5786.68 | 845.55 | |

5D Anti-Collision Report

| Secondary Well: Tigges 30-34 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
|---|-------------------|------------|-----------|----------------|--------------------|--------------------|-------------------------|---------------|---------------|--------|------|
| Pri MD (US ft) | Sec MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Risk |
| 400.00 | 367.00 | 0.00 | 0.00 | 400.00 | 8.61 | 8.61 | 253.56 | 5793.53 | 5783.42 | 573.21 | |
| 500.00 | 467.00 | 0.00 | 0.00 | 500.00 | 11.65 | 11.65 | 253.56 | 5793.53 | 5780.34 | 439.22 | |
| 600.00 | 567.00 | 0.00 | 0.00 | 600.00 | 14.69 | 14.69 | 253.56 | 5793.53 | 5777.08 | 352.28 | |
| 700.00 | 667.00 | 0.00 | 0.00 | 700.00 | 17.73 | 17.73 | 253.56 | 5793.53 | 5773.83 | 294.07 | |
| 800.00 | 767.00 | 0.00 | 0.00 | 800.00 | 20.76 | 20.76 | 253.56 | 5793.53 | 5770.57 | 252.37 | |
| 900.00 | 867.00 | 0.00 | 0.00 | 900.00 | 23.80 | 23.80 | 253.56 | 5793.53 | 5767.32 | 221.03 | |
| 1000.00 | 967.00 | 0.00 | 0.00 | 1000.00 | 26.84 | 26.84 | 253.56 | 5793.53 | 5764.06 | 196.61 | |
| 1100.00 | 1067.00 | 0.00 | 0.00 | 1100.00 | 29.87 | 29.87 | 253.56 | 5793.53 | 5760.81 | 177.05 | |
| 1200.00 | 1167.00 | 0.00 | 0.00 | 1200.00 | 32.91 | 32.91 | 138.29 | 5793.86 | 5757.89 | 161.08 | |
| 1300.00 | 1266.93 | 0.00 | 0.00 | 1299.93 | 35.94 | 35.94 | 138.28 | 5796.46 | 5757.27 | 147.92 | |
| 1400.00 | 1366.68 | 0.00 | 0.00 | 1399.68 | 38.97 | 38.97 | 138.26 | 5801.67 | 5759.27 | 136.81 | |
| 1500.00 | 1466.13 | 0.00 | 0.00 | 1499.13 | 41.99 | 41.99 | 138.22 | 5809.49 | 5763.86 | 127.32 | |
| 1600.00 | 1565.15 | 0.00 | 0.00 | 1598.15 | 45.00 | 45.00 | 138.17 | 5819.91 | 5771.07 | 119.16 | |
| 1700.00 | 1663.63 | 0.00 | 0.00 | 1696.63 | 47.99 | 47.99 | 138.11 | 5832.93 | 5780.87 | 112.04 | |
| 1800.00 | 1761.44 | 0.00 | 0.00 | 1794.44 | 50.96 | 50.96 | 138.04 | 5848.55 | 5793.27 | 105.80 | |
| 1900.00 | 1858.46 | 0.00 | 0.00 | 1891.46 | 53.91 | 53.91 | 137.94 | 5866.77 | 5808.26 | 100.27 | |
| 2000.00 | 1954.71 | 0.00 | 0.00 | 1987.71 | 56.83 | 56.83 | 137.98 | 5887.25 | 5825.51 | 95.36 | |
| 2100.00 | 2050.85 | 0.00 | 0.00 | 2083.85 | 59.75 | 59.75 | 138.16 | 5908.08 | 5843.10 | 90.92 | |
| 2200.00 | 2146.98 | 0.00 | 0.00 | 2179.98 | 62.67 | 62.67 | 138.33 | 5928.97 | 5860.73 | 86.88 | |
| 2300.00 | 2243.12 | 0.00 | 0.00 | 2276.12 | 65.59 | 65.59 | 138.51 | 5949.91 | 5878.41 | 83.21 | |
| 2400.00 | 2339.26 | 0.00 | 0.00 | 2372.26 | 68.51 | 68.51 | 138.68 | 5970.91 | 5896.12 | 79.84 | |
| 2500.00 | 2435.39 | 0.00 | 0.00 | 2468.39 | 71.43 | 71.43 | 138.85 | 5991.96 | 5913.86 | 76.72 | |
| 2600.00 | 2531.53 | 0.00 | 0.00 | 2564.53 | 74.35 | 74.35 | 139.02 | 6013.06 | 5931.64 | 73.85 | |
| 2700.00 | 2627.67 | 0.00 | 0.00 | 2660.67 | 77.27 | 77.27 | 139.19 | 6034.22 | 5949.48 | 71.21 | |
| 2800.00 | 2723.81 | 0.00 | 0.00 | 2756.81 | 80.19 | 80.19 | 139.36 | 6055.42 | 5967.36 | 68.76 | |
| 2900.00 | 2819.94 | 0.00 | 0.00 | 2852.94 | 83.11 | 83.11 | 139.52 | 6076.68 | 5985.29 | 66.49 | |
| 3000.00 | 2916.08 | 0.00 | 0.00 | 2949.08 | 86.03 | 86.03 | 139.69 | 6097.98 | 6003.26 | 64.38 | |
| 3100.00 | 3012.22 | 0.00 | 0.00 | 3045.22 | 88.95 | 88.95 | 139.85 | 6119.34 | 6021.29 | 62.41 | |
| 3200.00 | 3108.35 | 0.00 | 0.00 | 3141.35 | 91.87 | 91.87 | 140.01 | 6140.74 | 6039.36 | 60.57 | |
| 3300.00 | 3204.49 | 0.00 | 0.00 | 3237.49 | 94.79 | 94.79 | 140.18 | 6162.20 | 6057.48 | 58.85 | |
| 3400.00 | 3300.63 | 0.00 | 0.00 | 3333.63 | 97.71 | 97.71 | 140.34 | 6183.70 | 6075.65 | 57.23 | |
| 3500.00 | 3396.76 | 0.00 | 0.00 | 3429.76 | 100.62 | 100.62 | 140.50 | 6205.25 | 6093.87 | 55.71 | |
| 3600.00 | 3492.90 | 0.00 | 0.00 | 3525.90 | 103.54 | 103.54 | 140.66 | 6226.85 | 6112.13 | 54.28 | |
| 3700.00 | 3589.04 | 0.00 | 0.00 | 3622.04 | 106.46 | 106.46 | 140.81 | 6248.49 | 6130.44 | 52.93 | |
| 3800.00 | 3685.17 | 0.00 | 0.00 | 3718.17 | 109.38 | 109.38 | 140.97 | 6270.18 | 6148.79 | 51.66 | |
| 3900.00 | 3781.31 | 0.00 | 0.00 | 3814.31 | 112.30 | 112.30 | 141.13 | 6291.91 | 6167.20 | 50.45 | |
| 4000.00 | 3877.45 | 0.00 | 0.00 | 3910.45 | 115.22 | 115.22 | 141.28 | 6313.69 | 6185.64 | 49.31 | |
| 4100.00 | 3973.58 | 0.00 | 0.00 | 4006.58 | 118.14 | 118.14 | 141.43 | 6335.52 | 6204.14 | 48.22 | |
| 4200.00 | 4069.72 | 0.00 | 0.00 | 4102.72 | 121.06 | 121.06 | 141.59 | 6357.39 | 6222.68 | 47.19 | |
| 4300.00 | 4165.86 | 0.00 | 0.00 | 4198.86 | 123.98 | 123.98 | 141.74 | 6379.30 | 6241.26 | 46.21 | |
| 4400.00 | 4261.99 | 0.00 | 0.00 | 4294.99 | 126.90 | 126.90 | 141.89 | 6401.26 | 6259.89 | 45.28 | |
| 4500.00 | 4358.13 | 0.00 | 0.00 | 4391.13 | 129.82 | 129.82 | 142.04 | 6423.25 | 6278.56 | 44.39 | |
| 4600.00 | 4454.27 | 0.00 | 0.00 | 4487.27 | 132.74 | 132.74 | 142.19 | 6445.30 | 6297.27 | 43.54 | |
| 4700.00 | 4550.40 | 0.00 | 0.00 | 4583.40 | 135.66 | 135.66 | 142.33 | 6467.38 | 6316.03 | 42.73 | |
| 4800.00 | 4646.54 | 0.00 | 0.00 | 4679.54 | 138.58 | 138.58 | 142.48 | 6489.50 | 6334.83 | 41.96 | |
| 4900.00 | 4742.68 | 0.00 | 0.00 | 4775.68 | 141.50 | 141.50 | 142.62 | 6511.67 | 6353.68 | 41.21 | |
| 5000.00 | 4838.81 | 0.00 | 0.00 | 4871.81 | 144.42 | 144.42 | 142.77 | 6533.88 | 6372.56 | 40.50 | |
| 5100.00 | 4934.95 | 0.00 | 0.00 | 4967.95 | 147.34 | 147.34 | 142.91 | 6556.13 | 6391.49 | 39.82 | |
| 5200.00 | 5031.09 | 0.00 | 0.00 | 5064.09 | 150.26 | 150.26 | 143.05 | 6578.41 | 6410.46 | 39.17 | |
| 5300.00 | 5127.22 | 0.00 | 0.00 | 5160.22 | 153.18 | 153.18 | 143.20 | 6600.74 | 6429.48 | 38.54 | |
| 5400.00 | 5223.36 | 0.00 | 0.00 | 5256.36 | 156.10 | 156.10 | 143.34 | 6623.11 | 6448.53 | 37.94 | |
| 5500.00 | 5319.50 | 0.00 | 0.00 | 5352.50 | 159.02 | 159.02 | 143.48 | 6645.51 | 6467.62 | 37.36 | |
| 5600.00 | 5415.63 | 0.00 | 0.00 | 5448.63 | 161.94 | 161.94 | 143.62 | 6667.95 | 6486.75 | 36.80 | |
| 5700.00 | 5511.77 | 0.00 | 0.00 | 5544.77 | 164.85 | 164.85 | 143.75 | 6690.44 | 6505.93 | 36.26 | |
| 5800.00 | 5607.91 | 0.00 | 0.00 | 5640.91 | 167.77 | 167.77 | 143.89 | 6712.95 | 6525.14 | 35.74 | |
| 5900.00 | 5704.04 | 0.00 | 0.00 | 5737.04 | 170.69 | 170.69 | 144.03 | 6735.51 | 6544.39 | 35.24 | |
| 6000.00 | 5800.18 | 0.00 | 0.00 | 5833.18 | 173.61 | 173.61 | 144.16 | 6758.10 | 6563.68 | 34.76 | |
| 6100.00 | 5896.32 | 0.00 | 0.00 | 5929.32 | 176.53 | 176.53 | 144.30 | 6780.73 | 6583.01 | 34.29 | |

5D Anti-Collision Report

| Secondary Well: Tigges 30-34 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
|---|-------------------|------------|-----------|----------------|--------------------|--------------------|-------------------------|---------------|---------------|-------|------|
| Pri MD (US ft) | Sec MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Risk |
| 6200.00 | 5992.45 | 0.00 | 0.00 | 6025.45 | 179.45 | 179.45 | 144.43 | 6803.40 | 6602.38 | 33.84 | |
| 6300.00 | 6088.59 | 0.00 | 0.00 | 6121.59 | 182.37 | 182.37 | 144.56 | 6826.10 | 6621.78 | 33.41 | |
| 6400.00 | 6184.73 | 0.00 | 0.00 | 6217.73 | 185.29 | 185.29 | 144.44 | 6848.83 | 6641.22 | 32.99 | |
| 6500.00 | 6282.27 | 0.00 | 0.00 | 6315.27 | 188.25 | 188.25 | 121.08 | 6864.52 | 6653.69 | 32.56 | |
| 6600.00 | 6381.21 | 0.00 | 0.00 | 6414.21 | 191.26 | 191.26 | 69.22 | 6866.41 | 6652.39 | 32.08 | |
| 6700.00 | 6479.63 | 0.00 | 0.00 | 6512.63 | 194.25 | 194.25 | 32.46 | 6854.47 | 6637.31 | 31.56 | |
| 6800.00 | 6575.62 | 0.00 | 0.00 | 6608.62 | 197.16 | 197.16 | 18.25 | 6828.92 | 6608.75 | 31.02 | |
| 6900.00 | 6667.30 | 0.00 | 0.00 | 6700.30 | 199.95 | 199.95 | 11.54 | 6790.24 | 6567.25 | 30.45 | |
| 7000.00 | 6752.89 | 0.00 | 0.00 | 6785.89 | 202.55 | 202.55 | 7.57 | 6739.19 | 6513.59 | 29.87 | |
| 7100.00 | 6830.72 | 0.00 | 0.00 | 6863.72 | 204.91 | 204.91 | 4.73 | 6676.75 | 6448.80 | 29.29 | |
| 7200.00 | 6899.29 | 0.00 | 0.00 | 6932.29 | 206.99 | 206.99 | 2.27 | 6604.13 | 6374.13 | 28.71 | |
| 7300.00 | 6957.25 | 0.00 | 0.00 | 6990.25 | 208.75 | 208.75 | 359.63 | 6522.75 | 6291.02 | 28.15 | |
| 7400.00 | 7003.47 | 0.00 | 0.00 | 7036.47 | 210.16 | 210.16 | 356.03 | 6434.18 | 6201.08 | 27.60 | |
| 7500.00 | 7037.07 | 0.00 | 0.00 | 7070.07 | 211.18 | 211.18 | 349.56 | 6340.14 | 6106.09 | 27.09 | |
| 7600.00 | 7057.37 | 0.00 | 0.00 | 7090.37 | 211.79 | 211.79 | 332.39 | 6242.49 | 6007.92 | 26.61 | |
| 7700.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 6143.12 | 5908.30 | 26.16 | |
| 7800.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 6043.53 | 5808.78 | 25.74 | |
| 7900.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 5943.96 | 5709.21 | 25.32 | |
| 8000.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 5844.41 | 5609.68 | 24.90 | |
| 8100.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 5744.87 | 5510.20 | 24.48 | |
| 8200.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 5645.34 | 5410.66 | 24.05 | |
| 8300.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 5545.84 | 5311.18 | 23.63 | |
| 8400.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 5446.35 | 5211.75 | 23.22 | |
| 8500.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 5346.88 | 5112.35 | 22.80 | |
| 8600.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 5247.43 | 5012.98 | 22.38 | |
| 8700.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 5148.00 | 4913.50 | 21.95 | |
| 8800.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 5048.60 | 4814.06 | 21.53 | |
| 8900.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 4949.22 | 4714.67 | 21.10 | |
| 9000.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 4849.86 | 4615.34 | 20.68 | |
| 9100.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 4750.53 | 4516.04 | 20.26 | |
| 9200.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 4651.23 | 4416.64 | 19.83 | |
| 9300.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 4551.96 | 4317.29 | 19.40 | |
| 9400.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 4452.73 | 4218.01 | 18.97 | |
| 9500.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 4353.52 | 4118.79 | 18.55 | |
| 9600.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 4254.36 | 4019.51 | 18.12 | |
| 9700.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 4155.24 | 3920.28 | 17.69 | |
| 9800.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 4056.15 | 3821.12 | 17.26 | |
| 9900.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 3957.12 | 3721.93 | 16.83 | |
| 10000.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 3858.13 | 3622.81 | 16.39 | |
| 10100.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 3759.20 | 3523.73 | 15.96 | |
| 10200.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 3660.33 | 3424.72 | 15.54 | |
| 10300.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 3561.52 | 3325.64 | 15.10 | |
| 10400.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 3462.78 | 3226.62 | 14.66 | |
| 10500.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 3364.11 | 3127.67 | 14.23 | |
| 10600.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 3265.52 | 3028.77 | 13.79 | |
| 10700.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 3167.03 | 2929.86 | 13.35 | |
| 10800.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 3068.62 | 2831.00 | 12.91 | |
| 10900.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 2970.33 | 2732.22 | 12.47 | |
| 11000.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 2872.15 | 2633.48 | 12.03 | |
| 11100.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 2774.11 | 2534.77 | 11.59 | |
| 11200.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 2676.21 | 2435.98 | 11.14 | |
| 11300.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 2578.47 | 2337.19 | 10.69 | |
| 11400.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 2480.91 | 2238.51 | 10.24 | |
| 11500.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 2383.55 | 2139.87 | 9.78 | |
| 11600.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 2286.42 | 2041.28 | 9.33 | |
| 11700.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 2189.55 | 1942.74 | 8.87 | |
| 11800.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 2092.97 | 1844.38 | 8.42 | |
| 11900.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 1996.73 | 1746.21 | 7.97 | |

5D Anti-Collision Report

| Secondary Well: Tigges 30-34 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
|---|-------------------|------------|-----------|----------------|--------------------|--------------------|-------------------------|---------------|---------------|---------|---------|
| Pri MD (US ft) | Sec MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Risk |
| 12000.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 1900.88 | 1648.28 | 7.53 | |
| 12100.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 1805.47 | 1550.56 | 7.08 | |
| 12200.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 1710.60 | 1453.00 | 6.64 | |
| 12300.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 1616.34 | 1355.72 | 6.20 | |
| 12400.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 1522.81 | 1258.91 | 5.77 | |
| 12500.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 1430.16 | 1161.96 | 5.33 | |
| 12600.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 1338.57 | 1065.46 | 4.90 | |
| 12700.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 1248.27 | 969.81 | 4.48 | |
| 12800.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 1159.56 | 875.12 | 4.08 | |
| 12900.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 1072.84 | 781.78 | 3.69 | |
| 13000.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 988.63 | 688.94 | 3.30 | |
| 13100.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 907.63 | 598.25 | 2.93 | |
| 13200.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 830.78 | 511.17 | 2.60 | |
| 13300.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 759.35 | 426.72 | 2.28 | SF(Lo) |
| 13400.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 694.99 | 349.32 | 2.01 | SF(Lo) |
| 13500.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 639.86 | 279.65 | 1.78 | SF(Lo) |
| 13600.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 596.51 | 221.87 | 1.59 | SF(Lo) |
| 13700.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 567.66 | 181.13 | 1.47 | SF(Med) |
| 13800.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 555.55 | 161.59 | 1.41 | SF(Med) |
| 13900.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 561.29 | 165.58 | 1.42 | SF(Med) |
| 14000.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 584.34 | 192.34 | 1.49 | SF(Med) |
| 14100.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 622.78 | 238.51 | 1.62 | SF(Lo) |
| 14200.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 673.99 | 299.87 | 1.80 | SF(Lo) |
| 14300.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 735.30 | 372.32 | 2.03 | SF(Lo) |
| 14400.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 804.41 | 450.87 | 2.28 | SF(Lo) |
| 14500.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 879.48 | 535.81 | 2.56 | |
| 14600.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 959.11 | 623.45 | 2.86 | |
| 14700.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 1042.25 | 714.03 | 3.18 | |
| 14800.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 1128.14 | 807.02 | 3.51 | |
| 14900.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 1216.19 | 900.98 | 3.86 | |
| 15000.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 1305.95 | 995.62 | 4.21 | |
| 15100.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 1397.11 | 1091.32 | 4.57 | |
| 15200.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 1489.40 | 1187.83 | 4.94 | |
| 15300.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 1582.63 | 1284.92 | 5.32 | |
| 15400.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 1676.64 | 1382.46 | 5.70 | |
| 15500.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 1771.31 | 1480.36 | 6.09 | |
| 15600.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 1866.53 | 1577.96 | 6.47 | |
| 15600.60 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 1867.11 | 1578.54 | 6.47 | |
| Secondary Well: Firestien #30-44 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
| Pri MD (US ft) | Sec MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Risk |
| 0.00 | 0.00 | 0.00 | 0.00 | 33.00 | 0.00 | 0.00 | 238.30 | 3197.55 | 3196.82 | 4391.61 | |
| 100.00 | 67.00 | 0.00 | 0.00 | 100.00 | 1.02 | 1.02 | 238.30 | 3197.38 | 3195.53 | 1724.18 | |
| 200.00 | 167.00 | 0.00 | 0.00 | 200.00 | 2.54 | 2.54 | 238.30 | 3197.38 | 3193.78 | 887.99 | |
| 300.00 | 267.00 | 0.00 | 0.00 | 300.00 | 5.58 | 5.58 | 238.30 | 3197.38 | 3190.52 | 466.03 | |
| 400.00 | 367.00 | 0.00 | 0.00 | 400.00 | 8.61 | 8.61 | 238.30 | 3197.38 | 3187.26 | 315.91 | |
| 500.00 | 467.00 | 0.00 | 0.00 | 500.00 | 11.65 | 11.65 | 238.30 | 3197.38 | 3184.17 | 242.05 | |
| 600.00 | 567.00 | 0.00 | 0.00 | 600.00 | 14.69 | 14.69 | 238.30 | 3197.38 | 3180.91 | 194.14 | |
| 700.00 | 667.00 | 0.00 | 0.00 | 700.00 | 17.73 | 17.73 | 238.30 | 3197.38 | 3177.65 | 162.06 | |
| 800.00 | 767.00 | 0.00 | 0.00 | 800.00 | 20.76 | 20.76 | 238.30 | 3197.38 | 3174.39 | 139.08 | |
| 900.00 | 867.00 | 0.00 | 0.00 | 900.00 | 23.80 | 23.80 | 238.30 | 3197.38 | 3171.13 | 121.80 | |
| 1000.00 | 967.00 | 0.00 | 0.00 | 1000.00 | 26.84 | 26.84 | 238.30 | 3197.38 | 3167.87 | 108.35 | |
| 1100.00 | 1067.00 | 0.00 | 0.00 | 1100.00 | 29.87 | 29.87 | 238.30 | 3197.38 | 3164.61 | 97.57 | |
| 1200.00 | 1167.00 | 0.00 | 0.00 | 1200.00 | 32.91 | 32.91 | 123.03 | 3197.62 | 3161.60 | 88.78 | |
| 1300.00 | 1266.93 | 0.00 | 0.00 | 1299.93 | 35.94 | 35.94 | 123.05 | 3199.52 | 3160.28 | 81.53 | |
| 1400.00 | 1366.68 | 0.00 | 0.00 | 1399.68 | 38.97 | 38.97 | 123.09 | 3203.34 | 3160.87 | 75.44 | |
| 1500.00 | 1466.13 | 0.00 | 0.00 | 1499.13 | 41.99 | 41.99 | 123.15 | 3209.07 | 3163.37 | 70.22 | |

5D Anti-Collision Report

| Secondary Well: Firestien #30-44 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
|---|-------------------|------------|-----------|----------------|--------------------|--------------------|-------------------------|---------------|---------------|-------|------|
| Pri MD (US ft) | Sec MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Risk |
| 1600.00 | 1565.15 | 0.00 | 0.00 | 1598.15 | 45.00 | 45.00 | 123.23 | 3216.74 | 3167.80 | 65.73 | |
| 1700.00 | 1663.63 | 0.00 | 0.00 | 1696.63 | 47.99 | 47.99 | 123.32 | 3226.37 | 3174.19 | 61.83 | |
| 1800.00 | 1761.44 | 0.00 | 0.00 | 1794.44 | 50.96 | 50.96 | 123.43 | 3237.99 | 3182.52 | 58.38 | |
| 1900.00 | 1858.46 | 0.00 | 0.00 | 1891.46 | 53.91 | 53.91 | 123.55 | 3251.62 | 3192.87 | 55.34 | |
| 2000.00 | 1954.71 | 0.00 | 0.00 | 1987.71 | 56.83 | 56.83 | 123.81 | 3267.05 | 3204.99 | 52.65 | |
| 2100.00 | 2050.85 | 0.00 | 0.00 | 2083.85 | 59.75 | 59.75 | 124.20 | 3282.86 | 3217.49 | 50.22 | |
| 2200.00 | 2146.98 | 0.00 | 0.00 | 2179.98 | 62.67 | 62.67 | 124.59 | 3298.83 | 3230.12 | 48.01 | |
| 2300.00 | 2243.12 | 0.00 | 0.00 | 2276.12 | 65.59 | 65.59 | 124.97 | 3314.95 | 3242.91 | 46.01 | |
| 2400.00 | 2339.26 | 0.00 | 0.00 | 2372.26 | 68.51 | 68.51 | 125.35 | 3331.22 | 3255.83 | 44.19 | |
| 2500.00 | 2435.39 | 0.00 | 0.00 | 2468.39 | 71.43 | 71.43 | 125.72 | 3347.63 | 3268.91 | 42.52 | |
| 2600.00 | 2531.53 | 0.00 | 0.00 | 2564.53 | 74.35 | 74.35 | 126.09 | 3364.19 | 3282.12 | 40.99 | |
| 2700.00 | 2627.67 | 0.00 | 0.00 | 2660.67 | 77.27 | 77.27 | 126.46 | 3380.90 | 3295.49 | 39.58 | |
| 2800.00 | 2723.81 | 0.00 | 0.00 | 2756.81 | 80.19 | 80.19 | 126.82 | 3397.74 | 3308.99 | 38.28 | |
| 2900.00 | 2819.94 | 0.00 | 0.00 | 2852.94 | 83.11 | 83.11 | 127.19 | 3414.73 | 3322.64 | 37.08 | |
| 3000.00 | 2916.08 | 0.00 | 0.00 | 2949.08 | 86.03 | 86.03 | 127.54 | 3431.85 | 3336.43 | 35.97 | |
| 3100.00 | 3012.22 | 0.00 | 0.00 | 3045.22 | 88.95 | 88.95 | 127.90 | 3449.10 | 3350.36 | 34.93 | |
| 3200.00 | 3108.35 | 0.00 | 0.00 | 3141.35 | 91.87 | 91.87 | 128.25 | 3466.49 | 3364.43 | 33.96 | |
| 3300.00 | 3204.49 | 0.00 | 0.00 | 3237.49 | 94.79 | 94.79 | 128.59 | 3484.01 | 3378.63 | 33.06 | |
| 3400.00 | 3300.63 | 0.00 | 0.00 | 3333.63 | 97.71 | 97.71 | 128.94 | 3501.65 | 3392.88 | 32.19 | |
| 3500.00 | 3396.76 | 0.00 | 0.00 | 3429.76 | 100.62 | 100.62 | 129.28 | 3519.43 | 3407.25 | 31.37 | |
| 3600.00 | 3492.90 | 0.00 | 0.00 | 3525.90 | 103.54 | 103.54 | 129.62 | 3537.33 | 3421.74 | 30.60 | |
| 3700.00 | 3589.04 | 0.00 | 0.00 | 3622.04 | 106.46 | 106.46 | 129.95 | 3555.35 | 3436.36 | 29.88 | |
| 3800.00 | 3685.17 | 0.00 | 0.00 | 3718.17 | 109.38 | 109.38 | 130.28 | 3573.49 | 3451.11 | 29.20 | |
| 3900.00 | 3781.31 | 0.00 | 0.00 | 3814.31 | 112.30 | 112.30 | 130.61 | 3591.75 | 3465.98 | 28.56 | |
| 4000.00 | 3877.45 | 0.00 | 0.00 | 3910.45 | 115.22 | 115.22 | 130.93 | 3610.13 | 3480.97 | 27.95 | |
| 4100.00 | 3973.58 | 0.00 | 0.00 | 4006.58 | 118.14 | 118.14 | 131.25 | 3628.63 | 3496.08 | 27.38 | |
| 4200.00 | 4069.72 | 0.00 | 0.00 | 4102.72 | 121.06 | 121.06 | 131.57 | 3647.24 | 3511.31 | 26.83 | |
| 4300.00 | 4165.86 | 0.00 | 0.00 | 4198.86 | 123.98 | 123.98 | 131.89 | 3665.96 | 3526.65 | 26.32 | |
| 4400.00 | 4261.99 | 0.00 | 0.00 | 4294.99 | 126.90 | 126.90 | 132.20 | 3684.79 | 3542.12 | 25.83 | |
| 4500.00 | 4358.13 | 0.00 | 0.00 | 4391.13 | 129.82 | 129.82 | 132.51 | 3703.73 | 3557.69 | 25.36 | |
| 4600.00 | 4454.27 | 0.00 | 0.00 | 4487.27 | 132.74 | 132.74 | 132.81 | 3722.78 | 3573.38 | 24.92 | |
| 4700.00 | 4550.40 | 0.00 | 0.00 | 4583.40 | 135.66 | 135.66 | 133.12 | 3741.94 | 3589.18 | 24.50 | |
| 4800.00 | 4646.54 | 0.00 | 0.00 | 4679.54 | 138.58 | 138.58 | 133.42 | 3761.19 | 3605.09 | 24.09 | |
| 4900.00 | 4742.68 | 0.00 | 0.00 | 4775.68 | 141.50 | 141.50 | 133.71 | 3780.55 | 3621.11 | 23.71 | |
| 5000.00 | 4838.81 | 0.00 | 0.00 | 4871.81 | 144.42 | 144.42 | 134.01 | 3800.02 | 3637.23 | 23.34 | |
| 5100.00 | 4934.95 | 0.00 | 0.00 | 4967.95 | 147.34 | 147.34 | 134.30 | 3819.58 | 3653.46 | 22.99 | |
| 5200.00 | 5031.09 | 0.00 | 0.00 | 5064.09 | 150.26 | 150.26 | 134.59 | 3839.23 | 3669.80 | 22.66 | |
| 5300.00 | 5127.22 | 0.00 | 0.00 | 5160.22 | 153.18 | 153.18 | 134.87 | 3858.99 | 3686.23 | 22.34 | |
| 5400.00 | 5223.36 | 0.00 | 0.00 | 5256.36 | 156.10 | 156.10 | 135.16 | 3878.84 | 3702.77 | 22.03 | |
| 5500.00 | 5319.50 | 0.00 | 0.00 | 5352.50 | 159.02 | 159.02 | 135.44 | 3898.78 | 3719.41 | 21.74 | |
| 5600.00 | 5415.63 | 0.00 | 0.00 | 5448.63 | 161.94 | 161.94 | 135.71 | 3918.81 | 3736.14 | 21.45 | |
| 5700.00 | 5511.77 | 0.00 | 0.00 | 5544.77 | 164.85 | 164.85 | 135.99 | 3938.94 | 3752.98 | 21.18 | |
| 5800.00 | 5607.91 | 0.00 | 0.00 | 5640.91 | 167.77 | 167.77 | 136.26 | 3959.15 | 3769.91 | 20.92 | |
| 5900.00 | 5704.04 | 0.00 | 0.00 | 5737.04 | 170.69 | 170.69 | 136.53 | 3979.45 | 3786.93 | 20.67 | |
| 6000.00 | 5800.18 | 0.00 | 0.00 | 5833.18 | 173.61 | 173.61 | 136.79 | 3999.84 | 3804.05 | 20.43 | |
| 6100.00 | 5896.32 | 0.00 | 0.00 | 5929.32 | 176.53 | 176.53 | 137.06 | 4020.31 | 3821.26 | 20.20 | |
| 6200.00 | 5992.45 | 0.00 | 0.00 | 6025.45 | 179.45 | 179.45 | 137.32 | 4040.87 | 3838.56 | 19.97 | |
| 6300.00 | 6088.59 | 0.00 | 0.00 | 6121.59 | 182.37 | 182.37 | 137.58 | 4061.51 | 3855.95 | 19.76 | |
| 6400.00 | 6184.73 | 0.00 | 0.00 | 6217.73 | 185.29 | 185.29 | 137.58 | 4082.23 | 3873.43 | 19.55 | |
| 6500.00 | 6282.27 | 0.00 | 0.00 | 6315.27 | 188.25 | 188.25 | 114.45 | 4096.05 | 3884.10 | 19.33 | |
| 6600.00 | 6381.21 | 0.00 | 0.00 | 6414.21 | 191.26 | 191.26 | 62.65 | 4096.33 | 3881.25 | 19.05 | |
| 6700.00 | 6479.63 | 0.00 | 0.00 | 6512.63 | 194.25 | 194.25 | 25.81 | 4083.04 | 3864.89 | 18.72 | |
| 6800.00 | 6575.62 | 0.00 | 0.00 | 6608.62 | 197.16 | 197.16 | 11.36 | 4056.42 | 3835.31 | 18.35 | |
| 6900.00 | 6667.30 | 0.00 | 0.00 | 6700.30 | 199.95 | 199.95 | 4.21 | 4016.96 | 3793.06 | 17.94 | |
| 7000.00 | 6752.89 | 0.00 | 0.00 | 6785.89 | 202.55 | 202.55 | 359.55 | 3965.42 | 3738.94 | 17.51 | |
| 7100.00 | 6830.72 | 0.00 | 0.00 | 6863.72 | 204.91 | 204.91 | 355.66 | 3902.80 | 3673.99 | 17.06 | |
| 7200.00 | 6899.29 | 0.00 | 0.00 | 6932.29 | 206.99 | 206.99 | 351.63 | 3830.33 | 3599.47 | 16.59 | |
| 7300.00 | 6957.25 | 0.00 | 0.00 | 6990.25 | 208.75 | 208.75 | 346.58 | 3749.42 | 3516.84 | 16.12 | |

5D Anti-Collision Report

| Secondary Well: Firestien #30-44 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
|---|-------------------|------------|-----------|----------------|--------------------|--------------------|-------------------------|---------------|---------------|-------|--------|
| Pri MD (US ft) | Sec MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Risk |
| 7400.00 | 7003.47 | 0.00 | 0.00 | 7036.47 | 210.16 | 210.16 | 339.12 | 3661.68 | 3427.74 | 15.65 | |
| 7500.00 | 7037.07 | 0.00 | 0.00 | 7070.07 | 211.18 | 211.18 | 326.47 | 3568.85 | 3333.95 | 15.19 | |
| 7600.00 | 7057.37 | 0.00 | 0.00 | 7090.37 | 211.79 | 211.79 | 303.37 | 3472.78 | 3237.20 | 14.74 | |
| 7700.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 3375.37 | 3139.54 | 14.31 | |
| 7800.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 3278.02 | 3042.17 | 13.90 | |
| 7900.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 3180.83 | 2944.85 | 13.48 | |
| 8000.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 3083.82 | 2847.72 | 13.06 | |
| 8100.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 2987.01 | 2750.81 | 12.65 | |
| 8200.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 2890.42 | 2654.11 | 12.23 | |
| 8300.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 2794.06 | 2557.55 | 11.81 | |
| 8400.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 2697.97 | 2461.24 | 11.40 | |
| 8500.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 2602.18 | 2365.21 | 10.98 | |
| 8600.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 2506.71 | 2269.47 | 10.57 | |
| 8700.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 2411.62 | 2174.00 | 10.15 | |
| 8800.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 2316.93 | 2078.92 | 9.73 | |
| 8900.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 2222.71 | 1984.20 | 9.32 | |
| 9000.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 2129.02 | 1889.99 | 8.91 | |
| 9100.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 2035.92 | 1796.07 | 8.49 | |
| 9200.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 1943.52 | 1702.21 | 8.05 | |
| 9300.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 1851.90 | 1609.08 | 7.63 | |
| 9400.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 1761.19 | 1516.66 | 7.20 | |
| 9500.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 1671.55 | 1425.10 | 6.78 | |
| 9600.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 1583.15 | 1334.74 | 6.37 | |
| 9700.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 1496.20 | 1245.66 | 5.97 | |
| 9800.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 1410.99 | 1157.58 | 5.57 | |
| 9900.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 1327.85 | 1070.75 | 5.16 | |
| 10000.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 1247.18 | 986.40 | 4.78 | |
| 10100.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 1169.50 | 904.65 | 4.42 | |
| 10200.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 1095.44 | 825.29 | 4.05 | |
| 10300.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 1025.80 | 749.89 | 3.72 | |
| 10400.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 961.53 | 680.20 | 3.42 | |
| 10500.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 903.78 | 615.47 | 3.13 | |
| 10600.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 853.87 | 559.37 | 2.90 | |
| 10700.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 813.24 | 511.70 | 2.70 | |
| 10800.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 783.35 | 475.14 | 2.54 | |
| 10900.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 765.45 | 452.18 | 2.44 | SF(Lo) |
| 11000.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 760.39 | 443.44 | 2.40 | SF(Lo) |
| 11100.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 768.41 | 448.89 | 2.40 | SF(Lo) |
| 11200.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 789.13 | 469.24 | 2.47 | SF(Lo) |
| 11300.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 821.59 | 503.49 | 2.58 | |
| 11400.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 864.45 | 548.20 | 2.73 | |
| 11500.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 916.27 | 603.08 | 2.93 | |
| 11600.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 975.62 | 665.57 | 3.15 | |
| 11700.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 1041.20 | 734.85 | 3.40 | |
| 11800.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 1111.92 | 808.58 | 3.67 | |
| 11900.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 1186.87 | 887.24 | 3.96 | |
| 12000.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 1265.28 | 968.83 | 4.27 | |
| 12100.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 1346.55 | 1052.58 | 4.58 | |
| 12200.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 1430.20 | 1138.91 | 4.91 | |
| 12300.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 1515.83 | 1227.30 | 5.25 | |
| 12400.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 1603.13 | 1317.34 | 5.61 | |
| 12500.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 1691.83 | 1407.71 | 5.95 | |
| 12600.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 1781.73 | 1499.29 | 6.31 | |
| 12700.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 1872.66 | 1591.88 | 6.67 | |
| 12800.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 1964.46 | 1685.21 | 7.03 | |
| 12900.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 2057.03 | 1779.27 | 7.41 | |
| 13000.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 2150.27 | 1873.95 | 7.78 | |
| 13100.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 2244.09 | 1969.16 | 8.16 | |

5D Anti-Collision Report

| Secondary Well: Firestien #30-44 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
|---|-------------------|------------|-----------|----------------|--------------------|--------------------|-------------------------|---------------|---------------|--------|------|
| Pri MD (US ft) | Sec MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Risk |
| 13200.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 2338.42 | 2064.83 | 8.55 | |
| 13300.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 2433.20 | 2160.82 | 8.93 | |
| 13400.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 2528.39 | 2256.78 | 9.31 | |
| 13500.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 2623.93 | 2353.07 | 9.69 | |
| 13600.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 2719.80 | 2449.66 | 10.07 | |
| 13700.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 2815.95 | 2546.51 | 10.45 | |
| 13800.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 2912.36 | 2643.60 | 10.84 | |
| 13900.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 3009.01 | 2740.90 | 11.22 | |
| 14000.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 3105.87 | 2838.38 | 11.61 | |
| 14100.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 3202.92 | 2936.04 | 12.00 | |
| 14200.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 3300.14 | 3033.84 | 12.39 | |
| 14300.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 3397.53 | 3131.79 | 12.79 | |
| 14400.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 3495.07 | 3229.86 | 13.18 | |
| 14500.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 3592.74 | 3328.05 | 13.57 | |
| 14600.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 3690.53 | 3426.34 | 13.97 | |
| 14700.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 3788.44 | 3524.73 | 14.37 | |
| 14800.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 3886.46 | 3623.21 | 14.76 | |
| 14900.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 3984.58 | 3721.77 | 15.16 | |
| 15000.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 4082.79 | 3820.40 | 15.56 | |
| 15100.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 4181.08 | 3919.10 | 15.96 | |
| 15200.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 4279.45 | 4017.86 | 16.36 | |
| 15300.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 4377.89 | 4116.69 | 16.76 | |
| 15400.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 4476.41 | 4215.57 | 17.16 | |
| 15500.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 4574.99 | 4314.47 | 17.56 | |
| 15600.00 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 4673.63 | 4413.41 | 17.96 | |
| 15600.60 | 7064.00 | 0.00 | 0.00 | 7097.00 | 211.99 | 211.99 | 270.00 | 4674.22 | 4414.01 | 17.96 | |
| Secondary Well: Goetzel 32C-30-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
| Pri MD (US ft) | Sec MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Risk |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 99.82 | 99.09 | 136.12 | |
| 100.00 | 100.00 | 0.00 | 0.00 | 100.00 | 0.11 | 0.11 | 0.03 | 99.82 | 98.87 | 104.64 | |
| 200.00 | 200.00 | 0.00 | 0.00 | 200.00 | 0.34 | 0.34 | 0.03 | 99.82 | 98.42 | 71.12 | |
| 300.00 | 300.00 | 0.00 | 0.00 | 300.00 | 0.56 | 0.56 | 0.03 | 99.82 | 97.97 | 53.87 | |
| 400.00 | 400.00 | 0.00 | 0.00 | 400.00 | 0.79 | 0.79 | 0.03 | 99.82 | 97.52 | 43.35 | |
| 500.00 | 500.00 | 0.00 | 0.00 | 500.00 | 1.01 | 1.01 | 0.03 | 99.82 | 97.07 | 36.27 | |
| 600.00 | 600.00 | 0.00 | 0.00 | 600.00 | 1.24 | 1.24 | 0.03 | 99.82 | 96.62 | 31.18 | |
| 700.00 | 700.00 | 0.00 | 0.00 | 700.00 | 1.46 | 1.46 | 0.03 | 99.82 | 96.17 | 27.34 | |
| 800.00 | 800.00 | 0.00 | 0.00 | 800.00 | 1.69 | 1.69 | 0.03 | 99.82 | 95.72 | 24.34 | |
| 900.00 | 900.00 | 0.00 | 0.00 | 900.00 | 1.91 | 1.91 | 0.03 | 99.82 | 95.27 | 21.94 | |
| 1000.00 | 1000.00 | 0.00 | 0.00 | 1000.00 | 2.14 | 2.14 | 0.03 | 99.82 | 94.82 | 19.96 | |
| 1100.00 | 1100.00 | 0.00 | 0.00 | 1100.00 | 2.36 | 2.36 | 0.03 | 99.82 | 94.37 | 18.32 | |
| 1200.00 | 1200.00 | 0.00 | 0.00 | 1200.00 | 2.58 | 2.58 | 244.54 | 100.01 | 94.13 | 17.01 | |
| 1300.00 | 1299.93 | 0.00 | 0.00 | 1299.93 | 2.81 | 2.81 | 242.79 | 101.56 | 95.27 | 16.14 | |
| 1400.00 | 1399.68 | 0.00 | 0.00 | 1399.68 | 3.03 | 3.03 | 239.47 | 104.93 | 98.23 | 15.64 | |
| 1500.00 | 1499.13 | 0.00 | 0.00 | 1499.13 | 3.26 | 3.26 | 234.91 | 110.63 | 103.46 | 15.44 | |
| 1600.00 | 1598.15 | 0.00 | 0.00 | 1598.15 | 3.48 | 3.48 | 229.59 | 119.21 | 111.62 | 15.70 | |
| 1700.00 | 1696.63 | 0.00 | 0.00 | 1696.63 | 3.70 | 3.70 | 224.02 | 131.21 | 123.14 | 16.27 | |
| 1800.00 | 1794.44 | 0.00 | 0.00 | 1794.44 | 3.92 | 3.92 | 218.62 | 146.99 | 138.46 | 17.23 | |
| 1900.00 | 1893.28 | 1.87 | 78.00 | 1893.27 | 4.13 | 4.13 | 214.10 | 166.24 | 157.24 | 18.48 | |
| 2000.00 | 1992.71 | 3.85 | 78.00 | 1992.56 | 4.34 | 4.33 | 210.93 | 187.59 | 178.13 | 19.82 | |
| 2100.00 | 2093.13 | 5.86 | 78.00 | 2092.62 | 4.56 | 4.53 | 209.14 | 208.34 | 198.37 | 20.90 | |
| 2200.00 | 2194.42 | 7.89 | 78.00 | 2193.17 | 4.79 | 4.73 | 208.49 | 227.76 | 217.29 | 21.76 | |
| 2300.00 | 2296.33 | 9.93 | 78.00 | 2293.85 | 5.05 | 4.93 | 208.71 | 245.72 | 234.68 | 22.26 | |
| 2400.00 | 2398.61 | 11.97 | 78.00 | 2394.27 | 5.33 | 5.12 | 209.63 | 262.25 | 250.60 | 22.52 | |
| 2500.00 | 2501.01 | 14.02 | 78.00 | 2494.03 | 5.66 | 5.33 | 211.15 | 277.47 | 265.14 | 22.50 | |
| 2600.00 | 2603.25 | 16.06 | 78.00 | 2592.77 | 6.03 | 5.53 | 213.17 | 291.59 | 278.47 | 22.21 | |
| 2700.00 | 2703.57 | 17.19 | 78.00 | 2688.76 | 6.46 | 5.75 | 215.54 | 305.03 | 291.04 | 21.80 | |

5D Anti-Collision Report

| Secondary Well: Goetzel 32C-30-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
|---|-------------------|------------|-----------|----------------|--------------------|--------------------|-------------------------|---------------|---------------|-------|------|
| Pri MD (US ft) | Sec MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Risk |
| 2800.00 | 2801.88 | 17.19 | 78.00 | 2782.69 | 6.90 | 5.98 | 217.75 | 318.77 | 303.86 | 21.38 | |
| 2900.00 | 2900.20 | 17.19 | 78.00 | 2876.62 | 7.38 | 6.23 | 219.78 | 332.95 | 317.05 | 20.95 | |
| 3000.00 | 2998.52 | 17.19 | 78.00 | 2970.55 | 7.87 | 6.47 | 221.65 | 347.51 | 330.60 | 20.55 | |
| 3100.00 | 3096.84 | 17.19 | 78.00 | 3064.47 | 8.38 | 6.73 | 223.37 | 362.41 | 344.47 | 20.20 | |
| 3200.00 | 3195.15 | 17.19 | 78.00 | 3158.40 | 8.90 | 6.98 | 224.95 | 377.60 | 358.61 | 19.89 | |
| 3300.00 | 3293.47 | 17.19 | 78.00 | 3252.33 | 9.44 | 7.24 | 226.41 | 393.05 | 372.98 | 19.58 | |
| 3400.00 | 3391.79 | 17.19 | 78.00 | 3346.25 | 9.98 | 7.51 | 227.76 | 408.74 | 387.57 | 19.31 | |
| 3500.00 | 3490.11 | 17.19 | 78.00 | 3440.18 | 10.53 | 7.77 | 229.01 | 424.63 | 402.36 | 19.07 | |
| 3600.00 | 3588.42 | 17.19 | 78.00 | 3534.11 | 11.09 | 8.04 | 230.17 | 440.71 | 417.31 | 18.83 | |
| 3700.00 | 3686.74 | 17.19 | 78.00 | 3628.04 | 11.65 | 8.31 | 231.24 | 456.95 | 432.42 | 18.63 | |
| 3800.00 | 3785.06 | 17.19 | 78.00 | 3721.96 | 12.22 | 8.59 | 232.25 | 473.34 | 447.68 | 18.45 | |
| 3900.00 | 3883.38 | 17.19 | 78.00 | 3815.89 | 12.80 | 8.86 | 233.18 | 489.86 | 463.07 | 18.28 | |
| 4000.00 | 3981.69 | 17.19 | 78.00 | 3909.82 | 13.37 | 9.14 | 234.06 | 506.50 | 478.58 | 18.14 | |
| 4100.00 | 4080.01 | 17.19 | 78.00 | 4003.75 | 13.96 | 9.42 | 234.88 | 523.26 | 494.16 | 17.99 | |
| 4200.00 | 4178.33 | 17.19 | 78.00 | 4097.67 | 14.54 | 9.70 | 235.65 | 540.10 | 509.85 | 17.85 | |
| 4300.00 | 4276.65 | 17.19 | 78.00 | 4191.60 | 15.13 | 9.98 | 236.37 | 557.04 | 525.62 | 17.73 | |
| 4400.00 | 4374.96 | 17.19 | 78.00 | 4285.53 | 15.72 | 10.26 | 237.05 | 574.06 | 541.48 | 17.62 | |
| 4500.00 | 4473.28 | 17.19 | 78.00 | 4379.46 | 16.31 | 10.54 | 237.70 | 591.16 | 557.41 | 17.52 | |
| 4600.00 | 4571.60 | 17.19 | 78.00 | 4473.38 | 16.90 | 10.83 | 238.30 | 608.32 | 573.42 | 17.43 | |
| 4700.00 | 4669.91 | 17.19 | 78.00 | 4567.31 | 17.49 | 11.11 | 238.87 | 625.54 | 589.48 | 17.35 | |
| 4800.00 | 4768.23 | 17.19 | 78.00 | 4661.24 | 18.09 | 11.40 | 239.42 | 642.83 | 605.61 | 17.27 | |
| 4900.00 | 4866.55 | 17.19 | 78.00 | 4755.17 | 18.69 | 11.69 | 239.93 | 660.16 | 621.79 | 17.20 | |
| 5000.00 | 4964.87 | 17.19 | 78.00 | 4849.09 | 19.29 | 11.97 | 240.42 | 677.55 | 638.02 | 17.14 | |
| 5100.00 | 5063.18 | 17.19 | 78.00 | 4943.02 | 19.88 | 12.26 | 240.88 | 694.98 | 654.29 | 17.08 | |
| 5200.00 | 5161.50 | 17.19 | 78.00 | 5036.95 | 20.49 | 12.55 | 241.32 | 712.45 | 670.61 | 17.03 | |
| 5300.00 | 5259.82 | 17.19 | 78.00 | 5130.88 | 21.09 | 12.84 | 241.74 | 729.96 | 686.97 | 16.98 | |
| 5400.00 | 5358.14 | 17.19 | 78.00 | 5224.80 | 21.69 | 13.13 | 242.14 | 747.51 | 703.36 | 16.93 | |
| 5500.00 | 5456.45 | 17.19 | 78.00 | 5318.73 | 22.29 | 13.42 | 242.52 | 765.09 | 719.79 | 16.89 | |
| 5600.00 | 5554.77 | 17.19 | 78.00 | 5412.66 | 22.90 | 13.71 | 242.88 | 782.70 | 736.26 | 16.85 | |
| 5700.00 | 5653.09 | 17.19 | 78.00 | 5506.58 | 23.50 | 14.01 | 243.23 | 800.34 | 752.75 | 16.82 | |
| 5800.00 | 5751.41 | 17.19 | 78.00 | 5600.51 | 24.11 | 14.30 | 243.57 | 818.01 | 769.27 | 16.78 | |
| 5900.00 | 5849.72 | 17.19 | 78.00 | 5694.44 | 24.71 | 14.59 | 243.89 | 835.71 | 785.81 | 16.75 | |
| 6000.00 | 5948.04 | 17.19 | 78.00 | 5788.37 | 25.32 | 14.88 | 244.19 | 853.43 | 802.37 | 16.72 | |
| 6100.00 | 6046.36 | 17.19 | 78.00 | 5882.29 | 25.93 | 15.18 | 244.48 | 871.17 | 818.95 | 16.68 | |
| 6200.00 | 6144.67 | 17.19 | 78.00 | 5976.22 | 26.53 | 15.47 | 244.77 | 888.93 | 835.56 | 16.65 | |
| 6300.00 | 6242.99 | 17.19 | 78.00 | 6070.15 | 27.14 | 15.77 | 245.04 | 906.71 | 852.18 | 16.63 | |
| 6400.00 | 6341.31 | 17.19 | 78.00 | 6164.08 | 27.75 | 16.06 | 245.01 | 924.51 | 868.83 | 16.60 | |
| 6500.00 | 6441.64 | 13.63 | 75.53 | 6260.31 | 28.27 | 16.37 | 220.54 | 942.87 | 886.27 | 16.66 | |
| 6600.00 | 6546.42 | 5.68 | 58.17 | 6363.54 | 28.57 | 16.47 | 167.77 | 961.74 | 904.57 | 16.82 | |
| 6700.00 | 6653.23 | 4.49 | 304.34 | 6470.13 | 28.68 | 16.23 | 130.16 | 980.67 | 923.29 | 17.09 | |
| 6800.00 | 6762.15 | 12.58 | 279.26 | 6577.78 | 28.61 | 15.66 | 115.18 | 999.25 | 941.98 | 17.45 | |
| 6900.00 | 6873.18 | 21.33 | 273.92 | 6683.88 | 28.40 | 14.75 | 107.82 | 1017.07 | 960.16 | 17.87 | |
| 7000.00 | 6986.20 | 30.32 | 271.58 | 6785.52 | 28.10 | 13.57 | 103.36 | 1033.75 | 977.35 | 18.33 | |
| 7100.00 | 7101.02 | 39.47 | 270.22 | 6879.60 | 27.77 | 12.20 | 100.30 | 1048.92 | 993.09 | 18.79 | |
| 7200.00 | 7217.31 | 48.75 | 269.29 | 6963.00 | 27.53 | 10.81 | 98.01 | 1062.23 | 1006.88 | 19.19 | |
| 7300.00 | 7334.60 | 58.12 | 268.60 | 7032.80 | 27.46 | 9.67 | 96.22 | 1073.39 | 1018.28 | 19.48 | |
| 7400.00 | 7452.34 | 67.52 | 268.03 | 7086.52 | 27.65 | 9.11 | 94.79 | 1082.16 | 1026.86 | 19.57 | |
| 7500.00 | 7569.91 | 76.92 | 267.53 | 7122.39 | 28.15 | 9.38 | 93.66 | 1088.38 | 1032.30 | 19.41 | |
| 7600.00 | 7686.68 | 86.25 | 267.07 | 7139.46 | 28.94 | 10.41 | 92.77 | 1091.93 | 1034.56 | 19.03 | |
| 7700.00 | 7793.04 | 90.00 | 266.89 | 7141.00 | 29.90 | 11.26 | 92.31 | 1093.04 | 1033.98 | 18.51 | |
| 7800.00 | 7893.04 | 90.00 | 266.89 | 7141.00 | 31.05 | 11.74 | 92.31 | 1093.41 | 1032.17 | 17.85 | |
| 7900.00 | 7993.04 | 90.00 | 266.89 | 7141.00 | 32.39 | 12.25 | 92.31 | 1093.78 | 1029.92 | 17.13 | |
| 8000.00 | 8093.04 | 90.00 | 266.89 | 7141.00 | 33.91 | 12.78 | 92.30 | 1094.15 | 1027.36 | 16.38 | |
| 8100.00 | 8193.04 | 90.00 | 266.89 | 7141.00 | 35.59 | 13.33 | 92.30 | 1094.52 | 1024.53 | 15.64 | |
| 8200.00 | 8293.04 | 90.00 | 266.89 | 7141.00 | 37.40 | 13.89 | 92.30 | 1094.89 | 1021.34 | 14.89 | |
| 8300.00 | 8393.04 | 90.00 | 266.89 | 7141.00 | 39.32 | 14.47 | 92.30 | 1095.26 | 1017.86 | 14.15 | |
| 8400.00 | 8493.04 | 90.00 | 266.89 | 7141.00 | 41.35 | 15.07 | 92.30 | 1095.63 | 1014.20 | 13.46 | |
| 8500.00 | 8593.04 | 90.00 | 266.89 | 7141.00 | 43.46 | 15.67 | 92.30 | 1096.00 | 1010.38 | 12.80 | |

5D Anti-Collision Report

| Secondary Well: Goetzel 32C-30-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
|---|-------------------|------------|-----------|----------------|--------------------|--------------------|-------------------------|---------------|---------------|-------|------|
| Pri MD (US ft) | Sec MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Risk |
| 8600.00 | 8693.04 | 90.00 | 266.89 | 7141.00 | 45.65 | 16.29 | 92.30 | 1096.36 | 1006.40 | 12.19 | |
| 8700.00 | 8793.04 | 90.00 | 266.89 | 7141.00 | 47.90 | 16.92 | 92.30 | 1096.73 | 1002.30 | 11.61 | |
| 8800.00 | 8893.03 | 90.00 | 266.89 | 7141.00 | 50.20 | 17.55 | 92.30 | 1097.10 | 998.08 | 11.08 | |
| 8900.00 | 8993.03 | 90.00 | 266.89 | 7141.00 | 52.56 | 18.19 | 92.30 | 1097.47 | 993.76 | 10.58 | |
| 9000.00 | 9093.03 | 90.00 | 266.89 | 7141.00 | 54.95 | 18.84 | 92.30 | 1097.84 | 989.36 | 10.12 | |
| 9100.00 | 9193.03 | 90.00 | 266.89 | 7141.00 | 57.38 | 19.50 | 92.30 | 1098.21 | 984.88 | 9.69 | |
| 9200.00 | 9293.03 | 90.00 | 266.89 | 7141.00 | 59.85 | 20.16 | 92.30 | 1098.58 | 980.33 | 9.29 | |
| 9300.00 | 9393.03 | 90.00 | 266.89 | 7141.00 | 62.34 | 20.82 | 92.29 | 1098.95 | 975.73 | 8.92 | |
| 9400.00 | 9493.03 | 90.00 | 266.89 | 7141.00 | 64.86 | 21.49 | 92.29 | 1099.32 | 971.08 | 8.57 | |
| 9500.00 | 9593.03 | 90.00 | 266.89 | 7141.00 | 67.40 | 22.16 | 92.29 | 1099.69 | 966.37 | 8.25 | |
| 9600.00 | 9693.03 | 90.00 | 266.89 | 7141.00 | 69.96 | 22.84 | 92.29 | 1100.06 | 961.63 | 7.95 | |
| 9700.00 | 9793.03 | 90.00 | 266.89 | 7141.00 | 72.53 | 23.52 | 92.29 | 1100.43 | 956.86 | 7.66 | |
| 9800.00 | 9893.03 | 90.00 | 266.89 | 7141.00 | 75.13 | 24.21 | 92.29 | 1100.79 | 952.05 | 7.40 | |
| 9900.00 | 9993.03 | 90.00 | 266.89 | 7141.00 | 77.73 | 24.89 | 92.29 | 1101.16 | 947.21 | 7.15 | |
| 10000.00 | 10093.03 | 90.00 | 266.89 | 7141.00 | 80.35 | 25.58 | 92.29 | 1101.53 | 942.34 | 6.92 | |
| 10100.00 | 10193.03 | 90.00 | 266.89 | 7141.00 | 82.98 | 26.27 | 92.29 | 1101.90 | 937.45 | 6.70 | |
| 10200.00 | 10293.02 | 90.00 | 266.89 | 7141.00 | 85.63 | 26.97 | 92.29 | 1102.27 | 932.54 | 6.49 | |
| 10300.00 | 10393.02 | 90.00 | 266.89 | 7141.00 | 88.28 | 27.66 | 92.29 | 1102.64 | 927.61 | 6.30 | |
| 10400.00 | 10493.02 | 90.00 | 266.89 | 7141.00 | 90.94 | 28.36 | 92.29 | 1103.01 | 922.67 | 6.12 | |
| 10500.00 | 10593.02 | 90.00 | 266.89 | 7141.00 | 93.61 | 29.06 | 92.29 | 1103.38 | 917.70 | 5.94 | |
| 10600.00 | 10693.02 | 90.00 | 266.89 | 7141.00 | 96.28 | 29.76 | 92.28 | 1103.75 | 912.73 | 5.78 | |
| 10700.00 | 10793.02 | 90.00 | 266.89 | 7141.00 | 98.97 | 30.46 | 92.28 | 1104.12 | 907.73 | 5.62 | |
| 10800.00 | 10893.02 | 90.00 | 266.89 | 7141.00 | 101.66 | 31.17 | 92.28 | 1104.49 | 902.73 | 5.47 | |
| 10900.00 | 10993.02 | 90.00 | 266.89 | 7141.00 | 104.35 | 31.87 | 92.28 | 1104.86 | 897.71 | 5.33 | |
| 11000.00 | 11093.02 | 90.00 | 266.89 | 7141.00 | 107.05 | 32.58 | 92.28 | 1105.22 | 892.68 | 5.20 | |
| 11100.00 | 11193.02 | 90.00 | 266.89 | 7141.00 | 109.76 | 33.29 | 92.28 | 1105.59 | 887.65 | 5.07 | |
| 11200.00 | 11293.02 | 90.00 | 266.89 | 7141.00 | 112.47 | 33.99 | 92.28 | 1105.96 | 882.60 | 4.95 | |
| 11300.00 | 11393.02 | 90.00 | 266.89 | 7141.00 | 115.18 | 34.70 | 92.28 | 1106.33 | 877.55 | 4.84 | |
| 11400.00 | 11493.02 | 90.00 | 266.89 | 7141.00 | 117.90 | 35.41 | 92.28 | 1106.70 | 872.48 | 4.73 | |
| 11500.00 | 11593.02 | 90.00 | 266.89 | 7141.00 | 120.62 | 36.13 | 92.28 | 1107.07 | 867.41 | 4.62 | |
| 11600.00 | 11693.02 | 90.00 | 266.89 | 7141.00 | 123.35 | 36.84 | 92.28 | 1107.44 | 862.34 | 4.52 | |
| 11700.00 | 11793.01 | 90.00 | 266.89 | 7141.00 | 126.08 | 37.55 | 92.28 | 1107.81 | 857.25 | 4.42 | |
| 11800.00 | 11893.01 | 90.00 | 266.89 | 7141.00 | 128.81 | 38.27 | 92.28 | 1108.18 | 852.16 | 4.33 | |
| 11900.00 | 11993.01 | 90.00 | 266.89 | 7141.00 | 131.54 | 38.98 | 92.27 | 1108.55 | 847.07 | 4.24 | |
| 12000.00 | 12093.01 | 90.00 | 266.89 | 7141.00 | 134.28 | 39.70 | 92.27 | 1108.92 | 841.97 | 4.15 | |
| 12100.00 | 12193.01 | 90.00 | 266.89 | 7141.00 | 137.02 | 40.41 | 92.27 | 1109.29 | 836.86 | 4.07 | |
| 12200.00 | 12293.01 | 90.00 | 266.89 | 7141.00 | 139.76 | 41.13 | 92.27 | 1109.65 | 831.75 | 3.99 | |
| 12300.00 | 12393.01 | 90.00 | 266.89 | 7141.00 | 142.50 | 41.85 | 92.27 | 1110.02 | 826.64 | 3.92 | |
| 12400.00 | 12493.01 | 90.00 | 266.89 | 7141.00 | 145.25 | 42.56 | 92.27 | 1110.39 | 821.52 | 3.84 | |
| 12500.00 | 12593.01 | 90.00 | 266.89 | 7141.00 | 148.00 | 43.28 | 92.27 | 1110.76 | 816.40 | 3.77 | |
| 12600.00 | 12693.01 | 90.00 | 266.89 | 7141.00 | 150.75 | 44.00 | 92.27 | 1111.13 | 811.27 | 3.71 | |
| 12700.00 | 12793.01 | 90.00 | 266.89 | 7141.00 | 153.50 | 44.72 | 92.27 | 1111.50 | 806.14 | 3.64 | |
| 12800.00 | 12893.01 | 90.00 | 266.89 | 7141.00 | 156.25 | 45.44 | 92.27 | 1111.87 | 801.01 | 3.58 | |
| 12900.00 | 12993.01 | 90.00 | 266.89 | 7141.00 | 159.01 | 46.16 | 92.27 | 1112.24 | 795.87 | 3.52 | |
| 13000.00 | 13093.01 | 90.00 | 266.89 | 7141.00 | 161.76 | 46.88 | 92.27 | 1112.61 | 790.73 | 3.46 | |
| 13100.00 | 13193.01 | 90.00 | 266.89 | 7141.00 | 164.52 | 47.60 | 92.27 | 1112.98 | 785.59 | 3.40 | |
| 13200.00 | 13293.00 | 90.00 | 266.89 | 7141.00 | 167.28 | 48.32 | 92.26 | 1113.35 | 780.45 | 3.34 | |
| 13300.00 | 13393.00 | 90.00 | 266.89 | 7141.00 | 170.04 | 49.04 | 92.26 | 1113.72 | 775.30 | 3.29 | |
| 13400.00 | 13493.00 | 90.00 | 266.89 | 7141.00 | 172.80 | 49.77 | 92.26 | 1114.08 | 770.15 | 3.24 | |
| 13500.00 | 13593.00 | 90.00 | 266.89 | 7141.00 | 175.57 | 50.49 | 92.26 | 1114.45 | 765.00 | 3.19 | |
| 13600.00 | 13693.00 | 90.00 | 266.89 | 7141.00 | 178.33 | 51.21 | 92.26 | 1114.82 | 759.84 | 3.14 | |
| 13700.00 | 13793.00 | 90.00 | 266.89 | 7141.00 | 181.10 | 51.93 | 92.26 | 1115.19 | 754.69 | 3.09 | |
| 13800.00 | 13893.00 | 90.00 | 266.89 | 7141.00 | 183.86 | 52.66 | 92.26 | 1115.56 | 749.53 | 3.05 | |
| 13900.00 | 13993.00 | 90.00 | 266.89 | 7141.00 | 186.63 | 53.38 | 92.26 | 1115.93 | 744.37 | 3.00 | |
| 14000.00 | 14093.00 | 90.00 | 266.89 | 7141.00 | 189.40 | 54.10 | 92.26 | 1116.30 | 739.21 | 2.96 | |
| 14100.00 | 14193.00 | 90.00 | 266.89 | 7141.00 | 192.17 | 54.83 | 92.26 | 1116.67 | 734.04 | 2.92 | |
| 14200.00 | 14293.00 | 90.00 | 266.89 | 7141.00 | 194.94 | 55.55 | 92.26 | 1117.04 | 728.88 | 2.88 | |
| 14300.00 | 14393.00 | 90.00 | 266.89 | 7141.00 | 197.71 | 56.28 | 92.26 | 1117.41 | 723.71 | 2.84 | |

5D Anti-Collision Report

| Secondary Well: Goetzel 32C-30-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
|--|-------------------|------------|-----------|----------------|--------------------|--------------------|-------------------------|---------------|---------------|--------|--------|
| Pri MD (US ft) | Sec MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Risk |
| 14400.00 | 14493.00 | 90.00 | 266.89 | 7141.00 | 200.48 | 57.00 | 92.26 | 1117.78 | 718.54 | 2.80 | |
| 14500.00 | 14593.00 | 90.00 | 266.89 | 7141.00 | 203.25 | 57.73 | 92.26 | 1118.15 | 713.37 | 2.76 | |
| 14600.00 | 14692.99 | 90.00 | 266.89 | 7141.00 | 206.02 | 58.45 | 92.25 | 1118.51 | 708.20 | 2.73 | |
| 14700.00 | 14792.99 | 90.00 | 266.89 | 7141.00 | 208.80 | 59.18 | 92.25 | 1118.88 | 703.02 | 2.69 | |
| 14800.00 | 14892.99 | 90.00 | 266.89 | 7141.00 | 211.57 | 59.90 | 92.25 | 1119.25 | 697.85 | 2.66 | |
| 14900.00 | 14992.99 | 90.00 | 266.89 | 7141.00 | 214.35 | 60.63 | 92.25 | 1119.62 | 692.67 | 2.62 | |
| 15000.00 | 15092.99 | 90.00 | 266.89 | 7141.00 | 217.12 | 61.35 | 92.25 | 1119.99 | 687.50 | 2.59 | |
| 15100.00 | 15192.99 | 90.00 | 266.89 | 7141.00 | 219.90 | 62.08 | 92.25 | 1120.36 | 682.32 | 2.56 | |
| 15200.00 | 15292.99 | 90.00 | 266.89 | 7141.00 | 222.68 | 62.81 | 92.25 | 1120.73 | 677.14 | 2.53 | |
| 15300.00 | 15392.99 | 90.00 | 266.89 | 7141.00 | 225.45 | 63.53 | 92.25 | 1121.10 | 671.96 | 2.50 | SF(Lo) |
| 15400.00 | 15492.99 | 90.00 | 266.89 | 7141.00 | 228.23 | 64.26 | 92.25 | 1121.47 | 666.78 | 2.47 | SF(Lo) |
| 15500.00 | 15592.99 | 90.00 | 266.89 | 7141.00 | 231.01 | 64.99 | 92.25 | 1121.84 | 661.59 | 2.44 | SF(Lo) |
| 15600.00 | 15644.54 | 90.00 | 266.89 | 7141.00 | 232.44 | 65.36 | 92.25 | 1123.25 | 659.42 | 2.42 | SF(Lo) |
| 15600.60 | 15644.54 | 90.00 | 266.89 | 7141.00 | 232.44 | 65.36 | 92.25 | 1123.28 | 659.45 | 2.42 | SF(Lo) |
| Secondary Well: Goetzel 32N-30B-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
| Pri MD (US ft) | Sec MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Risk |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 359.95 | 79.78 | 79.05 | 108.80 | |
| 100.00 | 100.00 | 0.00 | 0.00 | 100.00 | 0.11 | 0.11 | 359.95 | 79.78 | 78.83 | 83.64 | |
| 200.00 | 200.00 | 0.00 | 0.00 | 200.00 | 0.34 | 0.34 | 359.95 | 79.78 | 78.38 | 56.85 | |
| 300.00 | 300.00 | 0.00 | 0.00 | 300.00 | 0.56 | 0.56 | 359.95 | 79.78 | 77.93 | 43.06 | |
| 400.00 | 400.00 | 0.00 | 0.00 | 400.00 | 0.79 | 0.79 | 359.95 | 79.78 | 77.48 | 34.65 | |
| 500.00 | 500.00 | 0.00 | 0.00 | 500.00 | 1.01 | 1.01 | 359.95 | 79.78 | 77.03 | 28.99 | |
| 600.00 | 600.00 | 0.00 | 0.00 | 600.00 | 1.24 | 1.24 | 359.95 | 79.78 | 76.58 | 24.92 | |
| 700.00 | 700.00 | 0.00 | 0.00 | 700.00 | 1.46 | 1.46 | 359.95 | 79.78 | 76.13 | 21.85 | |
| 800.00 | 800.00 | 0.00 | 0.00 | 800.00 | 1.69 | 1.69 | 359.95 | 79.78 | 75.68 | 19.46 | |
| 900.00 | 900.00 | 0.00 | 0.00 | 900.00 | 1.91 | 1.91 | 359.95 | 79.78 | 75.23 | 17.53 | |
| 1000.00 | 1000.00 | 0.00 | 0.00 | 1000.00 | 2.14 | 2.14 | 359.95 | 79.78 | 74.78 | 15.96 | |
| 1100.00 | 1100.00 | 0.00 | 0.00 | 1100.00 | 2.36 | 2.36 | 359.95 | 79.78 | 74.33 | 14.64 | |
| 1200.00 | 1200.00 | 0.00 | 0.00 | 1200.00 | 2.58 | 2.58 | 244.40 | 79.97 | 74.09 | 13.60 | |
| 1300.00 | 1299.93 | 0.00 | 0.00 | 1299.93 | 2.81 | 2.81 | 242.22 | 81.54 | 75.25 | 12.97 | |
| 1400.00 | 1399.68 | 0.00 | 0.00 | 1399.68 | 3.03 | 3.03 | 238.13 | 85.02 | 78.31 | 12.67 | |
| 1500.00 | 1499.13 | 0.00 | 0.00 | 1499.13 | 3.26 | 3.26 | 232.64 | 90.99 | 83.83 | 12.72 | |
| 1600.00 | 1598.15 | 0.00 | 0.00 | 1598.15 | 3.48 | 3.48 | 226.46 | 100.08 | 92.47 | 13.16 | |
| 1700.00 | 1696.63 | 0.00 | 0.00 | 1696.63 | 3.70 | 3.70 | 220.26 | 112.82 | 104.77 | 14.02 | |
| 1800.00 | 1794.44 | 0.00 | 0.00 | 1794.44 | 3.92 | 3.92 | 214.54 | 129.49 | 120.97 | 15.21 | |
| 1900.00 | 1891.46 | 0.00 | 0.00 | 1891.46 | 4.14 | 4.14 | 209.54 | 150.18 | 141.20 | 16.72 | |
| 2000.00 | 1987.71 | 0.00 | 0.00 | 1987.71 | 4.36 | 4.36 | 205.28 | 174.46 | 165.00 | 18.45 | |
| 2100.00 | 2087.64 | 1.75 | 85.04 | 2087.62 | 4.57 | 4.57 | 202.12 | 199.05 | 189.15 | 20.09 | |
| 2200.00 | 2189.55 | 3.79 | 85.04 | 2189.41 | 4.78 | 4.77 | 200.34 | 221.87 | 211.50 | 21.41 | |
| 2300.00 | 2292.77 | 5.86 | 85.04 | 2292.26 | 5.00 | 4.97 | 199.56 | 242.54 | 231.70 | 22.37 | |
| 2400.00 | 2397.05 | 7.94 | 85.04 | 2395.78 | 5.23 | 5.17 | 199.54 | 260.92 | 249.59 | 23.03 | |
| 2500.00 | 2502.12 | 10.04 | 85.04 | 2499.56 | 5.49 | 5.36 | 200.12 | 276.96 | 265.11 | 23.37 | |
| 2600.00 | 2607.72 | 12.15 | 85.04 | 2603.18 | 5.79 | 5.56 | 201.24 | 290.71 | 278.25 | 23.32 | |
| 2700.00 | 2713.56 | 14.27 | 85.04 | 2706.20 | 6.12 | 5.77 | 202.83 | 302.31 | 289.18 | 23.04 | |
| 2800.00 | 2819.34 | 16.39 | 85.04 | 2808.22 | 6.51 | 5.97 | 204.87 | 311.94 | 298.11 | 22.55 | |
| 2900.00 | 2924.79 | 18.50 | 85.04 | 2908.81 | 6.95 | 6.17 | 207.36 | 319.88 | 305.21 | 21.80 | |
| 3000.00 | 3024.21 | 18.74 | 85.04 | 3002.97 | 7.43 | 6.41 | 209.91 | 327.18 | 311.57 | 20.96 | |
| 3100.00 | 3122.89 | 18.74 | 85.04 | 3096.42 | 7.93 | 6.65 | 212.34 | 335.10 | 318.53 | 20.22 | |
| 3200.00 | 3221.57 | 18.74 | 85.04 | 3189.88 | 8.46 | 6.90 | 214.65 | 343.60 | 325.99 | 19.51 | |
| 3300.00 | 3320.25 | 18.74 | 85.04 | 3283.33 | 9.00 | 7.16 | 216.85 | 352.63 | 333.89 | 18.82 | |
| 3400.00 | 3418.94 | 18.74 | 85.04 | 3376.78 | 9.56 | 7.42 | 218.94 | 362.17 | 342.29 | 18.22 | |
| 3500.00 | 3517.62 | 18.74 | 85.04 | 3470.23 | 10.14 | 7.68 | 220.92 | 372.16 | 351.14 | 17.70 | |
| 3600.00 | 3616.30 | 18.74 | 85.04 | 3563.69 | 10.73 | 7.95 | 222.79 | 382.58 | 360.40 | 17.25 | |
| 3700.00 | 3714.98 | 18.74 | 85.04 | 3657.14 | 11.33 | 8.22 | 224.57 | 393.39 | 369.95 | 16.79 | |
| 3800.00 | 3813.66 | 18.74 | 85.04 | 3750.59 | 11.93 | 8.49 | 226.25 | 404.55 | 379.86 | 16.38 | |
| 3900.00 | 3912.34 | 18.74 | 85.04 | 3844.05 | 12.54 | 8.77 | 227.84 | 416.05 | 390.10 | 16.03 | |

5D Anti-Collision Report

| Secondary Well: Goetzel 32N-30B-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
|--|-------------------|------------|-----------|----------------|--------------------|--------------------|-------------------------|---------------|---------------|-------|------|
| Pri MD (US ft) | Sec MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Risk |
| 4000.00 | 4011.03 | 18.74 | 85.04 | 3937.50 | 13.16 | 9.05 | 229.35 | 427.85 | 400.64 | 15.73 | |
| 4100.00 | 4109.71 | 18.74 | 85.04 | 4030.95 | 13.79 | 9.33 | 230.77 | 439.93 | 411.47 | 15.46 | |
| 4200.00 | 4208.39 | 18.74 | 85.04 | 4124.41 | 14.42 | 9.61 | 232.12 | 452.27 | 422.57 | 15.23 | |
| 4300.00 | 4307.07 | 18.74 | 85.04 | 4217.86 | 15.05 | 9.90 | 233.40 | 464.84 | 433.90 | 15.02 | |
| 4400.00 | 4405.75 | 18.74 | 85.04 | 4311.31 | 15.69 | 10.19 | 234.61 | 477.63 | 445.40 | 14.82 | |
| 4500.00 | 4504.44 | 18.74 | 85.04 | 4404.76 | 16.33 | 10.48 | 235.75 | 490.61 | 457.07 | 14.63 | |
| 4600.00 | 4603.12 | 18.74 | 85.04 | 4498.22 | 16.97 | 10.77 | 236.84 | 503.79 | 468.94 | 14.46 | |
| 4700.00 | 4701.80 | 18.74 | 85.04 | 4591.67 | 17.62 | 11.06 | 237.87 | 517.13 | 480.98 | 14.31 | |
| 4800.00 | 4800.48 | 18.74 | 85.04 | 4685.12 | 18.26 | 11.35 | 238.85 | 530.64 | 493.19 | 14.17 | |
| 4900.00 | 4899.16 | 18.74 | 85.04 | 4778.58 | 18.91 | 11.65 | 239.79 | 544.29 | 505.56 | 14.05 | |
| 5000.00 | 4997.84 | 18.74 | 85.04 | 4872.03 | 19.56 | 11.95 | 240.67 | 558.07 | 518.06 | 13.95 | |
| 5100.00 | 5096.53 | 18.74 | 85.04 | 4965.48 | 20.22 | 12.24 | 241.52 | 571.98 | 530.69 | 13.85 | |
| 5200.00 | 5195.21 | 18.74 | 85.04 | 5058.94 | 20.87 | 12.54 | 242.32 | 586.01 | 543.45 | 13.77 | |
| 5300.00 | 5293.89 | 18.74 | 85.04 | 5152.39 | 21.53 | 12.84 | 243.09 | 600.14 | 556.32 | 13.70 | |
| 5400.00 | 5392.57 | 18.74 | 85.04 | 5245.84 | 22.18 | 13.14 | 243.82 | 614.38 | 569.30 | 13.63 | |
| 5500.00 | 5491.25 | 18.74 | 85.04 | 5339.29 | 22.84 | 13.44 | 244.52 | 628.71 | 582.38 | 13.57 | |
| 5600.00 | 5589.94 | 18.74 | 85.04 | 5432.75 | 23.50 | 13.74 | 245.18 | 643.13 | 595.55 | 13.52 | |
| 5700.00 | 5688.62 | 18.74 | 85.04 | 5526.20 | 24.16 | 14.04 | 245.82 | 657.63 | 608.81 | 13.47 | |
| 5800.00 | 5787.30 | 18.74 | 85.04 | 5619.65 | 24.82 | 14.34 | 246.43 | 672.21 | 622.12 | 13.42 | |
| 5900.00 | 5885.98 | 18.74 | 85.04 | 5713.11 | 25.48 | 14.65 | 247.02 | 686.86 | 635.50 | 13.37 | |
| 6000.00 | 5984.66 | 18.74 | 85.04 | 5806.56 | 26.14 | 14.95 | 247.58 | 701.58 | 648.95 | 13.33 | |
| 6100.00 | 6083.35 | 18.74 | 85.04 | 5900.01 | 26.81 | 15.25 | 248.11 | 716.36 | 662.48 | 13.30 | |
| 6200.00 | 6182.03 | 18.74 | 85.04 | 5993.46 | 27.47 | 15.56 | 248.63 | 731.20 | 676.06 | 13.26 | |
| 6300.00 | 6290.59 | 11.87 | 84.02 | 6097.73 | 28.05 | 15.90 | 248.78 | 745.58 | 689.25 | 13.24 | |
| 6400.00 | 6400.54 | 3.11 | 76.31 | 6206.64 | 28.34 | 15.91 | 247.40 | 758.47 | 701.37 | 13.28 | |
| 6500.00 | 6506.50 | 5.45 | 272.58 | 6312.48 | 28.41 | 15.58 | 221.14 | 771.24 | 713.94 | 13.46 | |
| 6600.00 | 6609.29 | 13.65 | 269.00 | 6413.76 | 28.34 | 14.96 | 166.50 | 784.73 | 727.53 | 13.72 | |
| 6700.00 | 6709.18 | 21.64 | 268.10 | 6508.87 | 28.16 | 14.11 | 127.13 | 798.65 | 741.83 | 14.06 | |
| 6800.00 | 6806.47 | 29.42 | 267.68 | 6596.59 | 27.94 | 13.10 | 110.53 | 812.71 | 756.46 | 14.45 | |
| 6900.00 | 6901.45 | 37.02 | 267.43 | 6675.99 | 27.71 | 12.00 | 101.71 | 826.57 | 770.99 | 14.87 | |
| 7000.00 | 6994.39 | 44.45 | 267.26 | 6746.36 | 27.52 | 10.91 | 95.97 | 839.89 | 784.96 | 15.29 | |
| 7100.00 | 7085.56 | 51.75 | 267.13 | 6807.21 | 27.43 | 9.94 | 91.80 | 852.35 | 797.94 | 15.67 | |
| 7200.00 | 7175.21 | 58.92 | 267.03 | 6858.17 | 27.47 | 9.22 | 88.61 | 863.62 | 809.49 | 15.95 | |
| 7300.00 | 7263.54 | 65.98 | 266.94 | 6899.00 | 27.67 | 8.87 | 86.12 | 873.44 | 819.25 | 16.12 | |
| 7400.00 | 7350.75 | 72.96 | 266.86 | 6929.56 | 28.02 | 8.97 | 84.19 | 881.54 | 826.90 | 16.13 | |
| 7500.00 | 7437.03 | 79.86 | 266.79 | 6949.82 | 28.54 | 9.51 | 82.74 | 887.74 | 832.22 | 15.99 | |
| 7600.00 | 7522.52 | 86.70 | 266.72 | 6959.81 | 29.20 | 10.38 | 81.74 | 891.86 | 835.11 | 15.72 | |
| 7700.00 | 7615.21 | 90.00 | 266.69 | 6961.00 | 30.10 | 11.13 | 81.25 | 893.57 | 835.16 | 15.30 | |
| 7800.00 | 7715.21 | 90.00 | 266.69 | 6961.00 | 31.27 | 11.62 | 81.25 | 893.58 | 832.98 | 14.75 | |
| 7900.00 | 7815.21 | 90.00 | 266.69 | 6961.00 | 32.63 | 12.14 | 81.25 | 893.60 | 830.45 | 14.15 | |
| 8000.00 | 7915.21 | 90.00 | 266.69 | 6961.00 | 34.17 | 12.68 | 81.25 | 893.61 | 827.62 | 13.54 | |
| 8100.00 | 8015.21 | 90.00 | 266.69 | 6961.00 | 35.87 | 13.24 | 81.25 | 893.62 | 824.37 | 12.90 | |
| 8200.00 | 8115.21 | 90.00 | 266.69 | 6961.00 | 37.69 | 13.81 | 81.25 | 893.64 | 820.80 | 12.27 | |
| 8300.00 | 8215.21 | 90.00 | 266.69 | 6961.00 | 39.63 | 14.40 | 81.25 | 893.65 | 817.02 | 11.66 | |
| 8400.00 | 8315.21 | 90.00 | 266.69 | 6961.00 | 41.67 | 15.00 | 81.25 | 893.67 | 813.05 | 11.09 | |
| 8500.00 | 8415.21 | 90.00 | 266.69 | 6961.00 | 43.79 | 15.61 | 81.25 | 893.68 | 808.91 | 10.54 | |
| 8600.00 | 8515.21 | 90.00 | 266.69 | 6961.00 | 45.98 | 16.24 | 81.25 | 893.69 | 804.63 | 10.03 | |
| 8700.00 | 8615.21 | 90.00 | 266.69 | 6961.00 | 48.24 | 16.87 | 81.25 | 893.71 | 800.21 | 9.56 | |
| 8800.00 | 8715.21 | 90.00 | 266.69 | 6961.00 | 50.55 | 17.51 | 81.25 | 893.72 | 795.68 | 9.12 | |
| 8900.00 | 8815.21 | 90.00 | 266.69 | 6961.00 | 52.91 | 18.15 | 81.25 | 893.73 | 791.06 | 8.70 | |
| 9000.00 | 8915.21 | 90.00 | 266.69 | 6961.00 | 55.30 | 18.81 | 81.25 | 893.75 | 786.35 | 8.32 | |
| 9100.00 | 9015.21 | 90.00 | 266.69 | 6961.00 | 57.74 | 19.46 | 81.25 | 893.76 | 781.56 | 7.97 | |
| 9200.00 | 9115.21 | 90.00 | 266.69 | 6961.00 | 60.21 | 20.13 | 81.25 | 893.78 | 776.71 | 7.63 | |
| 9300.00 | 9215.21 | 90.00 | 266.69 | 6961.00 | 62.70 | 20.80 | 81.25 | 893.79 | 771.80 | 7.33 | |
| 9400.00 | 9315.21 | 90.00 | 266.69 | 6961.00 | 65.22 | 21.47 | 81.25 | 893.80 | 766.83 | 7.04 | |
| 9500.00 | 9415.21 | 90.00 | 266.69 | 6961.00 | 67.76 | 22.15 | 81.25 | 893.82 | 761.83 | 6.77 | |
| 9600.00 | 9515.21 | 90.00 | 266.69 | 6961.00 | 70.32 | 22.83 | 81.25 | 893.83 | 756.78 | 6.52 | |
| 9700.00 | 9615.21 | 90.00 | 266.69 | 6961.00 | 72.90 | 23.51 | 81.25 | 893.84 | 751.70 | 6.29 | |

5D Anti-Collision Report

| Secondary Well: Goetzel 32N-30B-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
|--|-------------------|------------|-----------|----------------|--------------------|--------------------|-------------------------|---------------|---------------|------|--------|
| Pri MD (US ft) | Sec MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Risk |
| 9800.00 | 9715.21 | 90.00 | 266.69 | 6961.00 | 75.49 | 24.20 | 81.25 | 893.86 | 746.59 | 6.07 | |
| 9900.00 | 9815.21 | 90.00 | 266.69 | 6961.00 | 78.10 | 24.88 | 81.25 | 893.87 | 741.45 | 5.86 | |
| 10000.00 | 9915.21 | 90.00 | 266.69 | 6961.00 | 80.72 | 25.58 | 81.25 | 893.89 | 736.28 | 5.67 | |
| 10100.00 | 10015.21 | 90.00 | 266.69 | 6961.00 | 83.35 | 26.27 | 81.25 | 893.90 | 731.09 | 5.49 | |
| 10200.00 | 10115.21 | 90.00 | 266.69 | 6961.00 | 85.99 | 26.97 | 81.25 | 893.91 | 725.88 | 5.32 | |
| 10300.00 | 10215.21 | 90.00 | 266.69 | 6961.00 | 88.64 | 27.66 | 81.25 | 893.93 | 720.64 | 5.16 | |
| 10400.00 | 10315.21 | 90.00 | 266.69 | 6961.00 | 91.30 | 28.36 | 81.25 | 893.94 | 715.40 | 5.01 | |
| 10500.00 | 10415.21 | 90.00 | 266.69 | 6961.00 | 93.97 | 29.06 | 81.25 | 893.95 | 710.13 | 4.86 | |
| 10600.00 | 10515.21 | 90.00 | 266.69 | 6961.00 | 96.65 | 29.77 | 81.25 | 893.97 | 704.85 | 4.73 | |
| 10700.00 | 10615.21 | 90.00 | 266.69 | 6961.00 | 99.33 | 30.47 | 81.25 | 893.98 | 699.56 | 4.60 | |
| 10800.00 | 10715.21 | 90.00 | 266.69 | 6961.00 | 102.02 | 31.18 | 81.25 | 894.00 | 694.25 | 4.48 | |
| 10900.00 | 10815.21 | 90.00 | 266.69 | 6961.00 | 104.71 | 31.88 | 81.25 | 894.01 | 688.94 | 4.36 | |
| 11000.00 | 10915.21 | 90.00 | 266.69 | 6961.00 | 107.41 | 32.59 | 81.25 | 894.02 | 683.61 | 4.25 | |
| 11100.00 | 11015.21 | 90.00 | 266.69 | 6961.00 | 110.12 | 33.30 | 81.25 | 894.04 | 678.27 | 4.14 | |
| 11200.00 | 11115.21 | 90.00 | 266.69 | 6961.00 | 112.83 | 34.01 | 81.25 | 894.05 | 672.93 | 4.04 | |
| 11300.00 | 11215.21 | 90.00 | 266.69 | 6961.00 | 115.54 | 34.72 | 81.25 | 894.07 | 667.57 | 3.95 | |
| 11400.00 | 11315.21 | 90.00 | 266.69 | 6961.00 | 118.26 | 35.43 | 81.25 | 894.08 | 662.21 | 3.86 | |
| 11500.00 | 11415.21 | 90.00 | 266.69 | 6961.00 | 120.98 | 36.15 | 81.25 | 894.09 | 656.84 | 3.77 | |
| 11600.00 | 11515.21 | 90.00 | 266.69 | 6961.00 | 123.70 | 36.86 | 81.25 | 894.11 | 651.47 | 3.68 | |
| 11700.00 | 11615.21 | 90.00 | 266.69 | 6961.00 | 126.43 | 37.57 | 81.25 | 894.12 | 646.08 | 3.60 | |
| 11800.00 | 11715.21 | 90.00 | 266.69 | 6961.00 | 129.16 | 38.29 | 81.25 | 894.13 | 640.70 | 3.53 | |
| 11900.00 | 11815.21 | 90.00 | 266.69 | 6961.00 | 131.90 | 39.00 | 81.25 | 894.15 | 635.30 | 3.45 | |
| 12000.00 | 11915.21 | 90.00 | 266.69 | 6961.00 | 134.63 | 39.72 | 81.25 | 894.16 | 629.90 | 3.38 | |
| 12100.00 | 12015.21 | 90.00 | 266.69 | 6961.00 | 137.37 | 40.44 | 81.25 | 894.18 | 624.50 | 3.32 | |
| 12200.00 | 12115.21 | 90.00 | 266.69 | 6961.00 | 140.11 | 41.16 | 81.25 | 894.19 | 619.09 | 3.25 | |
| 12300.00 | 12215.21 | 90.00 | 266.69 | 6961.00 | 142.86 | 41.87 | 81.25 | 894.20 | 613.68 | 3.19 | |
| 12400.00 | 12315.21 | 90.00 | 266.69 | 6961.00 | 145.60 | 42.59 | 81.25 | 894.22 | 608.26 | 3.13 | |
| 12500.00 | 12415.21 | 90.00 | 266.69 | 6961.00 | 148.35 | 43.31 | 81.25 | 894.23 | 602.84 | 3.07 | |
| 12600.00 | 12515.21 | 90.00 | 266.69 | 6961.00 | 151.10 | 44.03 | 81.25 | 894.24 | 597.42 | 3.01 | |
| 12700.00 | 12615.21 | 90.00 | 266.69 | 6961.00 | 153.85 | 44.75 | 81.25 | 894.26 | 591.99 | 2.96 | |
| 12800.00 | 12715.21 | 90.00 | 266.69 | 6961.00 | 156.60 | 45.47 | 81.25 | 894.27 | 586.56 | 2.91 | |
| 12900.00 | 12815.21 | 90.00 | 266.69 | 6961.00 | 159.35 | 46.19 | 81.25 | 894.29 | 581.13 | 2.86 | |
| 13000.00 | 12915.21 | 90.00 | 266.69 | 6961.00 | 162.11 | 46.91 | 81.25 | 894.30 | 575.69 | 2.81 | |
| 13100.00 | 13015.21 | 90.00 | 266.69 | 6961.00 | 164.87 | 47.64 | 81.25 | 894.31 | 570.25 | 2.76 | |
| 13200.00 | 13115.21 | 90.00 | 266.69 | 6961.00 | 167.63 | 48.36 | 81.25 | 894.33 | 564.81 | 2.71 | |
| 13300.00 | 13215.21 | 90.00 | 266.69 | 6961.00 | 170.39 | 49.08 | 81.25 | 894.34 | 559.36 | 2.67 | |
| 13400.00 | 13315.21 | 90.00 | 266.69 | 6961.00 | 173.15 | 49.80 | 81.25 | 894.36 | 553.92 | 2.63 | |
| 13500.00 | 13415.21 | 90.00 | 266.69 | 6961.00 | 175.91 | 50.53 | 81.25 | 894.37 | 548.47 | 2.59 | |
| 13600.00 | 13515.21 | 90.00 | 266.69 | 6961.00 | 178.67 | 51.25 | 81.25 | 894.38 | 543.01 | 2.55 | |
| 13700.00 | 13615.21 | 90.00 | 266.69 | 6961.00 | 181.44 | 51.97 | 81.25 | 894.40 | 537.56 | 2.51 | |
| 13800.00 | 13715.21 | 90.00 | 266.69 | 6961.00 | 184.20 | 52.70 | 81.25 | 894.41 | 532.11 | 2.47 | SF(Lo) |
| 13900.00 | 13815.21 | 90.00 | 266.69 | 6961.00 | 186.97 | 53.42 | 81.25 | 894.42 | 526.65 | 2.43 | SF(Lo) |
| 14000.00 | 13915.21 | 90.00 | 266.69 | 6961.00 | 189.73 | 54.15 | 81.25 | 894.44 | 521.19 | 2.40 | SF(Lo) |
| 14100.00 | 14015.21 | 90.00 | 266.69 | 6961.00 | 192.50 | 54.87 | 81.25 | 894.45 | 515.73 | 2.36 | SF(Lo) |
| 14200.00 | 14115.21 | 90.00 | 266.69 | 6961.00 | 195.27 | 55.59 | 81.25 | 894.47 | 510.26 | 2.33 | SF(Lo) |
| 14300.00 | 14215.21 | 90.00 | 266.69 | 6961.00 | 198.04 | 56.32 | 81.25 | 894.48 | 504.80 | 2.30 | SF(Lo) |
| 14400.00 | 14315.21 | 90.00 | 266.69 | 6961.00 | 200.81 | 57.04 | 81.25 | 894.49 | 499.33 | 2.26 | SF(Lo) |
| 14500.00 | 14415.21 | 90.00 | 266.69 | 6961.00 | 203.58 | 57.77 | 81.25 | 894.51 | 493.87 | 2.23 | SF(Lo) |
| 14600.00 | 14515.21 | 90.00 | 266.69 | 6961.00 | 206.35 | 58.50 | 81.26 | 894.52 | 488.40 | 2.20 | SF(Lo) |
| 14700.00 | 14615.21 | 90.00 | 266.69 | 6961.00 | 209.13 | 59.22 | 81.26 | 894.53 | 482.93 | 2.17 | SF(Lo) |
| 14800.00 | 14715.21 | 90.00 | 266.69 | 6961.00 | 211.90 | 59.95 | 81.26 | 894.55 | 477.46 | 2.14 | SF(Lo) |
| 14900.00 | 14815.21 | 90.00 | 266.69 | 6961.00 | 214.67 | 60.67 | 81.26 | 894.56 | 471.98 | 2.12 | SF(Lo) |
| 15000.00 | 14915.21 | 90.00 | 266.69 | 6961.00 | 217.45 | 61.40 | 81.26 | 894.58 | 466.51 | 2.09 | SF(Lo) |
| 15100.00 | 15015.21 | 90.00 | 266.69 | 6961.00 | 220.22 | 62.13 | 81.26 | 894.59 | 461.03 | 2.06 | SF(Lo) |
| 15200.00 | 15115.21 | 90.00 | 266.69 | 6961.00 | 223.00 | 62.85 | 81.26 | 894.60 | 455.56 | 2.04 | SF(Lo) |
| 15300.00 | 15215.21 | 90.00 | 266.69 | 6961.00 | 225.78 | 63.58 | 81.26 | 894.62 | 450.08 | 2.01 | SF(Lo) |
| 15400.00 | 15315.21 | 90.00 | 266.69 | 6961.00 | 228.55 | 64.31 | 81.26 | 894.63 | 444.60 | 1.99 | SF(Lo) |
| 15500.00 | 15415.21 | 90.00 | 266.69 | 6961.00 | 231.33 | 65.03 | 81.26 | 894.64 | 439.12 | 1.96 | SF(Lo) |

5D Anti-Collision Report

| Secondary Well: Goetzel 32N-30B-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
|--|-------------------|------------|-----------|----------------|--------------------|--------------------|-------------------------|---------------|---------------|-------|---------|
| Pri MD (US ft) | Sec MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Risk |
| 15600.00 | 15473.86 | 90.00 | 266.69 | 6961.00 | 232.96 | 65.46 | 81.26 | 895.61 | 436.45 | 1.95 | SF(Lo) |
| 15600.60 | 15473.86 | 90.00 | 266.69 | 6961.00 | 232.96 | 65.46 | 81.26 | 895.64 | 436.48 | 1.95 | SF(Lo) |
| Secondary Well: Goetzel 12N-30C-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
| Pri MD (US ft) | Sec MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Risk |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.08 | 59.75 | 59.01 | 81.48 | CC (Lo) |
| 100.00 | 100.00 | 0.00 | 0.00 | 100.00 | 0.11 | 0.11 | 0.08 | 59.75 | 58.79 | 62.63 | CC (Lo) |
| 200.00 | 200.00 | 0.00 | 0.00 | 200.00 | 0.34 | 0.34 | 0.08 | 59.75 | 58.34 | 42.57 | CC (Lo) |
| 300.00 | 300.00 | 0.00 | 0.00 | 300.00 | 0.56 | 0.56 | 0.08 | 59.75 | 57.90 | 32.24 | CC (Lo) |
| 400.00 | 400.00 | 0.00 | 0.00 | 400.00 | 0.79 | 0.79 | 0.08 | 59.75 | 57.45 | 25.95 | CC (Lo) |
| 500.00 | 500.00 | 0.00 | 0.00 | 500.00 | 1.01 | 1.01 | 0.08 | 59.75 | 57.00 | 21.71 | CC (Lo) |
| 600.00 | 600.00 | 0.00 | 0.00 | 600.00 | 1.24 | 1.24 | 0.08 | 59.75 | 56.55 | 18.66 | CC (Lo) |
| 700.00 | 700.00 | 0.00 | 0.00 | 700.00 | 1.46 | 1.46 | 0.08 | 59.75 | 56.10 | 16.36 | CC (Lo) |
| 800.00 | 800.00 | 0.00 | 0.00 | 800.00 | 1.69 | 1.69 | 0.08 | 59.75 | 55.65 | 14.57 | CC (Lo) |
| 900.00 | 900.00 | 0.00 | 0.00 | 900.00 | 1.91 | 1.91 | 0.08 | 59.75 | 55.20 | 13.13 | CC (Lo) |
| 1000.00 | 1000.00 | 0.00 | 0.00 | 1000.00 | 2.14 | 2.14 | 0.08 | 59.75 | 54.75 | 11.95 | CC (Lo) |
| 1100.00 | 1100.00 | 0.00 | 0.00 | 1100.00 | 2.36 | 2.36 | 0.08 | 59.75 | 54.30 | 10.96 | CC (Lo) |
| 1200.00 | 1200.00 | 0.00 | 0.00 | 1200.00 | 2.58 | 2.58 | 244.44 | 59.94 | 54.05 | 10.19 | CC (Lo) |
| 1300.00 | 1299.93 | 0.00 | 0.00 | 1299.93 | 2.81 | 2.81 | 241.54 | 61.52 | 55.23 | 9.79 | CC (Lo) |
| 1400.00 | 1399.68 | 0.00 | 0.00 | 1399.68 | 3.03 | 3.03 | 236.21 | 65.14 | 58.42 | 9.69 | CC (Lo) |
| 1500.00 | 1499.13 | 0.00 | 0.00 | 1499.13 | 3.26 | 3.26 | 229.35 | 71.50 | 64.34 | 10.00 | |
| 1600.00 | 1598.15 | 0.00 | 0.00 | 1598.15 | 3.48 | 3.48 | 222.05 | 81.28 | 73.68 | 10.69 | |
| 1700.00 | 1696.63 | 0.00 | 0.00 | 1696.63 | 3.70 | 3.70 | 215.21 | 94.95 | 86.90 | 11.79 | |
| 1800.00 | 1796.79 | 1.94 | 92.75 | 1796.77 | 3.91 | 3.91 | 209.84 | 111.68 | 103.18 | 13.15 | |
| 1900.00 | 1897.57 | 3.95 | 92.75 | 1897.41 | 4.12 | 4.10 | 206.37 | 129.91 | 120.99 | 14.56 | |
| 2000.00 | 1998.98 | 5.98 | 92.75 | 1998.44 | 4.33 | 4.30 | 204.22 | 148.83 | 139.46 | 15.88 | |
| 2100.00 | 2101.43 | 8.03 | 92.75 | 2100.12 | 4.56 | 4.50 | 203.32 | 165.82 | 155.97 | 16.85 | |
| 2200.00 | 2204.76 | 10.10 | 92.75 | 2202.15 | 4.83 | 4.69 | 203.42 | 180.32 | 169.96 | 17.41 | |
| 2300.00 | 2308.71 | 12.17 | 92.75 | 2304.14 | 5.12 | 4.90 | 204.32 | 192.34 | 181.41 | 17.60 | |
| 2400.00 | 2413.01 | 14.26 | 92.75 | 2405.67 | 5.47 | 5.10 | 205.89 | 201.94 | 190.38 | 17.47 | |
| 2500.00 | 2517.38 | 16.35 | 92.75 | 2506.33 | 5.86 | 5.31 | 208.11 | 209.33 | 197.07 | 17.09 | |
| 2600.00 | 2618.07 | 16.91 | 92.75 | 2602.71 | 6.30 | 5.53 | 210.65 | 215.35 | 202.29 | 16.49 | |
| 2700.00 | 2717.45 | 16.91 | 92.75 | 2697.80 | 6.76 | 5.77 | 213.05 | 221.68 | 207.74 | 15.90 | |
| 2800.00 | 2816.83 | 16.91 | 92.75 | 2792.88 | 7.25 | 6.02 | 215.32 | 228.39 | 213.54 | 15.38 | |
| 2900.00 | 2916.20 | 16.91 | 92.75 | 2887.96 | 7.75 | 6.27 | 217.45 | 235.43 | 219.59 | 14.86 | |
| 3000.00 | 3015.58 | 16.91 | 92.75 | 2983.04 | 8.27 | 6.52 | 219.46 | 242.78 | 225.92 | 14.40 | |
| 3100.00 | 3114.96 | 16.91 | 92.75 | 3078.12 | 8.81 | 6.78 | 221.35 | 250.42 | 232.48 | 13.97 | |
| 3200.00 | 3214.33 | 16.91 | 92.75 | 3173.20 | 9.35 | 7.04 | 223.12 | 258.30 | 239.29 | 13.59 | |
| 3300.00 | 3313.71 | 16.91 | 92.75 | 3268.28 | 9.90 | 7.31 | 224.79 | 266.42 | 246.30 | 13.24 | |
| 3400.00 | 3413.09 | 16.91 | 92.75 | 3363.36 | 10.46 | 7.58 | 226.36 | 274.76 | 253.50 | 12.92 | |
| 3500.00 | 3512.46 | 16.91 | 92.75 | 3458.44 | 11.03 | 7.85 | 227.84 | 283.28 | 260.88 | 12.64 | |
| 3600.00 | 3611.84 | 16.91 | 92.75 | 3553.52 | 11.60 | 8.12 | 229.23 | 291.99 | 268.42 | 12.39 | |
| 3700.00 | 3711.22 | 16.91 | 92.75 | 3648.60 | 12.18 | 8.40 | 230.53 | 300.85 | 276.10 | 12.15 | |
| 3800.00 | 3810.59 | 16.91 | 92.75 | 3743.68 | 12.76 | 8.68 | 231.77 | 309.87 | 283.93 | 11.95 | |
| 3900.00 | 3909.97 | 16.91 | 92.75 | 3838.77 | 13.34 | 8.95 | 232.93 | 319.01 | 291.89 | 11.76 | |
| 4000.00 | 4009.34 | 16.91 | 92.75 | 3933.85 | 13.93 | 9.23 | 234.03 | 328.28 | 299.97 | 11.59 | |
| 4100.00 | 4108.72 | 16.91 | 92.75 | 4028.93 | 14.52 | 9.52 | 235.07 | 337.67 | 308.13 | 11.43 | |
| 4200.00 | 4208.10 | 16.91 | 92.75 | 4124.01 | 15.11 | 9.80 | 236.05 | 347.16 | 316.40 | 11.29 | |
| 4300.00 | 4307.47 | 16.91 | 92.75 | 4219.09 | 15.71 | 10.08 | 236.98 | 356.74 | 324.76 | 11.16 | |
| 4400.00 | 4406.85 | 16.91 | 92.75 | 4314.17 | 16.30 | 10.37 | 237.86 | 366.42 | 333.22 | 11.04 | |
| 4500.00 | 4506.23 | 16.91 | 92.75 | 4409.25 | 16.90 | 10.66 | 238.70 | 376.17 | 341.77 | 10.93 | |
| 4600.00 | 4605.60 | 16.91 | 92.75 | 4504.33 | 17.50 | 10.94 | 239.49 | 386.00 | 350.39 | 10.84 | |
| 4700.00 | 4704.98 | 16.91 | 92.75 | 4599.41 | 18.10 | 11.23 | 240.24 | 395.90 | 359.08 | 10.75 | |
| 4800.00 | 4804.36 | 16.91 | 92.75 | 4694.49 | 18.71 | 11.52 | 240.96 | 405.87 | 367.84 | 10.67 | |
| 4900.00 | 4903.73 | 16.91 | 92.75 | 4789.57 | 19.31 | 11.81 | 241.64 | 415.90 | 376.65 | 10.60 | |
| 5000.00 | 5003.11 | 16.91 | 92.75 | 4884.65 | 19.91 | 12.10 | 242.30 | 425.98 | 385.51 | 10.53 | |
| 5100.00 | 5102.49 | 16.91 | 92.75 | 4979.74 | 20.52 | 12.39 | 242.92 | 436.11 | 394.42 | 10.46 | |

5D Anti-Collision Report

| Secondary Well: Goetzel 12N-30C-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
|--|-------------------|------------|-----------|----------------|--------------------|--------------------|-------------------------|---------------|---------------|-------|------|
| Pri MD (US ft) | Sec MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Risk |
| 5200.00 | 5201.86 | 16.91 | 92.75 | 5074.82 | 21.12 | 12.68 | 243.51 | 446.29 | 403.38 | 10.40 | |
| 5300.00 | 5301.24 | 16.91 | 92.75 | 5169.90 | 21.73 | 12.97 | 244.07 | 456.52 | 412.39 | 10.34 | |
| 5400.00 | 5400.62 | 16.91 | 92.75 | 5264.98 | 22.34 | 13.27 | 244.62 | 466.79 | 421.44 | 10.29 | |
| 5500.00 | 5499.99 | 16.91 | 92.75 | 5360.06 | 22.95 | 13.56 | 245.13 | 477.10 | 430.53 | 10.25 | |
| 5600.00 | 5599.37 | 16.91 | 92.75 | 5455.14 | 23.55 | 13.85 | 245.63 | 487.44 | 439.67 | 10.20 | |
| 5700.00 | 5698.75 | 16.91 | 92.75 | 5550.22 | 24.16 | 14.15 | 246.10 | 497.82 | 448.82 | 10.16 | |
| 5800.00 | 5798.12 | 16.91 | 92.75 | 5645.30 | 24.77 | 14.44 | 246.56 | 508.24 | 458.00 | 10.12 | |
| 5900.00 | 5897.50 | 16.91 | 92.75 | 5740.38 | 25.38 | 14.74 | 247.00 | 518.68 | 467.22 | 10.08 | |
| 6000.00 | 5996.88 | 16.91 | 92.75 | 5835.46 | 25.99 | 15.03 | 247.42 | 529.15 | 476.46 | 10.04 | |
| 6100.00 | 6096.25 | 16.91 | 92.75 | 5930.54 | 26.61 | 15.33 | 247.82 | 539.65 | 485.73 | 10.01 | |
| 6200.00 | 6195.63 | 16.91 | 92.75 | 6025.62 | 27.22 | 15.62 | 248.21 | 550.18 | 495.03 | 9.98 | |
| 6300.00 | 6298.67 | 13.67 | 94.28 | 6124.52 | 27.81 | 15.94 | 248.48 | 560.60 | 504.26 | 9.95 | |
| 6400.00 | 6406.92 | 5.22 | 107.28 | 6231.22 | 28.11 | 16.05 | 247.16 | 569.73 | 512.66 | 9.98 | |
| 6500.00 | 6512.10 | 3.98 | 239.17 | 6336.24 | 28.20 | 15.82 | 221.08 | 578.60 | 521.43 | 10.12 | |
| 6600.00 | 6614.69 | 11.88 | 257.89 | 6437.79 | 28.14 | 15.28 | 166.60 | 588.07 | 531.11 | 10.32 | |
| 6700.00 | 6714.86 | 19.83 | 261.57 | 6534.07 | 27.96 | 14.50 | 127.40 | 597.97 | 541.49 | 10.59 | |
| 6800.00 | 6812.78 | 27.64 | 263.16 | 6623.64 | 27.71 | 13.53 | 110.95 | 608.07 | 552.26 | 10.90 | |
| 6900.00 | 6908.68 | 35.30 | 264.08 | 6705.38 | 27.44 | 12.44 | 102.27 | 618.13 | 563.04 | 11.22 | |
| 7000.00 | 7002.76 | 42.81 | 264.69 | 6778.38 | 27.20 | 11.32 | 96.66 | 627.89 | 573.51 | 11.55 | |
| 7100.00 | 7095.23 | 50.21 | 265.15 | 6841.98 | 27.04 | 10.28 | 92.61 | 637.09 | 583.31 | 11.84 | |
| 7200.00 | 7186.30 | 57.48 | 265.51 | 6895.67 | 27.00 | 9.44 | 89.52 | 645.49 | 592.05 | 12.08 | |
| 7300.00 | 7276.15 | 64.67 | 265.81 | 6939.09 | 27.13 | 8.96 | 87.11 | 652.86 | 599.42 | 12.22 | |
| 7400.00 | 7364.96 | 71.77 | 266.07 | 6972.03 | 27.43 | 8.92 | 85.24 | 659.00 | 605.09 | 12.22 | |
| 7500.00 | 7452.91 | 78.80 | 266.32 | 6994.35 | 27.91 | 9.34 | 83.84 | 663.73 | 608.90 | 12.11 | |
| 7600.00 | 7540.16 | 85.78 | 266.54 | 7006.05 | 28.55 | 10.16 | 82.85 | 666.92 | 610.79 | 11.88 | |
| 7700.00 | 7632.11 | 90.00 | 266.68 | 7008.00 | 29.40 | 10.98 | 82.35 | 668.32 | 610.53 | 11.56 | |
| 7800.00 | 7732.11 | 90.00 | 266.68 | 7008.00 | 30.52 | 11.45 | 82.35 | 668.32 | 608.37 | 11.15 | |
| 7900.00 | 7832.11 | 90.00 | 266.68 | 7008.00 | 31.85 | 11.96 | 82.35 | 668.32 | 605.84 | 10.70 | |
| 8000.00 | 7932.11 | 90.00 | 266.68 | 7008.00 | 33.36 | 12.49 | 82.35 | 668.32 | 602.99 | 10.23 | |
| 8100.00 | 8032.11 | 90.00 | 266.68 | 7008.00 | 35.03 | 13.03 | 82.35 | 668.32 | 599.76 | 9.75 | |
| 8200.00 | 8132.11 | 90.00 | 266.68 | 7008.00 | 36.83 | 13.60 | 82.35 | 668.31 | 596.18 | 9.26 | |
| 8300.00 | 8232.11 | 90.00 | 266.68 | 7008.00 | 38.76 | 14.18 | 82.35 | 668.31 | 592.38 | 8.80 | |
| 8400.00 | 8332.11 | 90.00 | 266.68 | 7008.00 | 40.78 | 14.77 | 82.35 | 668.31 | 588.40 | 8.36 | |
| 8500.00 | 8432.11 | 90.00 | 266.68 | 7008.00 | 42.90 | 15.38 | 82.35 | 668.31 | 584.24 | 7.95 | |
| 8600.00 | 8532.11 | 90.00 | 266.68 | 7008.00 | 45.08 | 15.99 | 82.35 | 668.31 | 579.94 | 7.56 | |
| 8700.00 | 8632.11 | 90.00 | 266.68 | 7008.00 | 47.34 | 16.62 | 82.35 | 668.31 | 575.50 | 7.20 | |
| 8800.00 | 8732.11 | 90.00 | 266.68 | 7008.00 | 49.64 | 17.25 | 82.35 | 668.31 | 570.95 | 6.86 | |
| 8900.00 | 8832.11 | 90.00 | 266.68 | 7008.00 | 52.00 | 17.89 | 82.35 | 668.31 | 566.29 | 6.55 | |
| 9000.00 | 8932.11 | 90.00 | 266.68 | 7008.00 | 54.40 | 18.54 | 82.35 | 668.31 | 561.55 | 6.26 | |
| 9100.00 | 9032.11 | 90.00 | 266.68 | 7008.00 | 56.83 | 19.20 | 82.35 | 668.30 | 556.74 | 5.99 | |
| 9200.00 | 9132.11 | 90.00 | 266.68 | 7008.00 | 59.30 | 19.86 | 82.35 | 668.30 | 551.86 | 5.74 | |
| 9300.00 | 9232.11 | 90.00 | 266.68 | 7008.00 | 61.79 | 20.52 | 82.35 | 668.30 | 546.92 | 5.51 | |
| 9400.00 | 9332.11 | 90.00 | 266.68 | 7008.00 | 64.31 | 21.19 | 82.35 | 668.30 | 541.93 | 5.29 | |
| 9500.00 | 9432.11 | 90.00 | 266.68 | 7008.00 | 66.85 | 21.87 | 82.35 | 668.30 | 536.89 | 5.09 | |
| 9600.00 | 9532.11 | 90.00 | 266.68 | 7008.00 | 69.41 | 22.54 | 82.35 | 668.30 | 531.82 | 4.90 | |
| 9700.00 | 9632.11 | 90.00 | 266.68 | 7008.00 | 71.99 | 23.23 | 82.35 | 668.30 | 526.71 | 4.72 | |
| 9800.00 | 9732.11 | 90.00 | 266.68 | 7008.00 | 74.59 | 23.91 | 82.35 | 668.30 | 521.56 | 4.55 | |
| 9900.00 | 9832.11 | 90.00 | 266.68 | 7008.00 | 77.20 | 24.60 | 82.35 | 668.30 | 516.39 | 4.40 | |
| 10000.00 | 9932.11 | 90.00 | 266.68 | 7008.00 | 79.82 | 25.29 | 82.35 | 668.30 | 511.19 | 4.25 | |
| 10100.00 | 10032.11 | 90.00 | 266.68 | 7008.00 | 82.45 | 25.98 | 82.35 | 668.29 | 505.97 | 4.12 | |
| 10200.00 | 10132.11 | 90.00 | 266.68 | 7008.00 | 85.10 | 26.67 | 82.35 | 668.29 | 500.73 | 3.99 | |
| 10300.00 | 10232.11 | 90.00 | 266.68 | 7008.00 | 87.75 | 27.37 | 82.35 | 668.29 | 495.46 | 3.87 | |
| 10400.00 | 10332.11 | 90.00 | 266.68 | 7008.00 | 90.41 | 28.07 | 82.35 | 668.29 | 490.18 | 3.75 | |
| 10500.00 | 10432.11 | 90.00 | 266.68 | 7008.00 | 93.08 | 28.77 | 82.35 | 668.29 | 484.89 | 3.64 | |
| 10600.00 | 10532.11 | 90.00 | 266.68 | 7008.00 | 95.76 | 29.47 | 82.35 | 668.29 | 479.58 | 3.54 | |
| 10700.00 | 10632.11 | 90.00 | 266.68 | 7008.00 | 98.44 | 30.17 | 82.35 | 668.29 | 474.25 | 3.44 | |
| 10800.00 | 10732.11 | 90.00 | 266.68 | 7008.00 | 101.13 | 30.88 | 82.35 | 668.29 | 468.92 | 3.35 | |
| 10900.00 | 10832.11 | 90.00 | 266.68 | 7008.00 | 103.83 | 31.58 | 82.35 | 668.29 | 463.57 | 3.26 | |

5D Anti-Collision Report

| Secondary Well: Goetzel 12N-30C-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
|--|-------------------|------------|-----------|----------------|--------------------|--------------------|-------------------------|---------------|---------------|-------|---------|
| Pri MD (US ft) | Sec MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Risk |
| 11000.00 | 10932.11 | 90.00 | 266.68 | 7008.00 | 106.53 | 32.29 | 82.35 | 668.29 | 458.21 | 3.18 | |
| 11100.00 | 11032.11 | 90.00 | 266.68 | 7008.00 | 109.24 | 33.00 | 82.35 | 668.28 | 452.85 | 3.10 | |
| 11200.00 | 11132.11 | 90.00 | 266.68 | 7008.00 | 111.95 | 33.71 | 82.35 | 668.28 | 447.47 | 3.03 | |
| 11300.00 | 11232.11 | 90.00 | 266.68 | 7008.00 | 114.66 | 34.42 | 82.35 | 668.28 | 442.08 | 2.95 | |
| 11400.00 | 11332.11 | 90.00 | 266.68 | 7008.00 | 117.38 | 35.13 | 82.35 | 668.28 | 436.69 | 2.89 | |
| 11500.00 | 11432.11 | 90.00 | 266.68 | 7008.00 | 120.10 | 35.84 | 82.35 | 668.28 | 431.29 | 2.82 | |
| 11600.00 | 11532.11 | 90.00 | 266.68 | 7008.00 | 122.83 | 36.55 | 82.35 | 668.28 | 425.88 | 2.76 | |
| 11700.00 | 11632.11 | 90.00 | 266.68 | 7008.00 | 125.56 | 37.27 | 82.35 | 668.28 | 420.47 | 2.70 | |
| 11800.00 | 11732.11 | 90.00 | 266.68 | 7008.00 | 128.29 | 37.98 | 82.35 | 668.28 | 415.05 | 2.64 | |
| 11900.00 | 11832.11 | 90.00 | 266.68 | 7008.00 | 131.02 | 38.70 | 82.35 | 668.28 | 409.63 | 2.58 | |
| 12000.00 | 11932.11 | 90.00 | 266.68 | 7008.00 | 133.76 | 39.41 | 82.35 | 668.28 | 404.20 | 2.53 | |
| 12100.00 | 12032.11 | 90.00 | 266.68 | 7008.00 | 136.50 | 40.13 | 82.35 | 668.27 | 398.77 | 2.48 | SF(Lo) |
| 12200.00 | 12132.11 | 90.00 | 266.68 | 7008.00 | 139.24 | 40.84 | 82.35 | 668.27 | 393.33 | 2.43 | SF(Lo) |
| 12300.00 | 12232.11 | 90.00 | 266.68 | 7008.00 | 141.99 | 41.56 | 82.35 | 668.27 | 387.88 | 2.38 | SF(Lo) |
| 12400.00 | 12332.11 | 90.00 | 266.68 | 7008.00 | 144.73 | 42.28 | 82.35 | 668.27 | 382.44 | 2.34 | SF(Lo) |
| 12500.00 | 12432.11 | 90.00 | 266.68 | 7008.00 | 147.48 | 43.00 | 82.35 | 668.27 | 376.98 | 2.29 | SF(Lo) |
| 12600.00 | 12532.11 | 90.00 | 266.68 | 7008.00 | 150.23 | 43.72 | 82.35 | 668.27 | 371.53 | 2.25 | SF(Lo) |
| 12700.00 | 12632.11 | 90.00 | 266.68 | 7008.00 | 152.98 | 44.44 | 82.35 | 668.27 | 366.07 | 2.21 | SF(Lo) |
| 12800.00 | 12732.11 | 90.00 | 266.68 | 7008.00 | 155.74 | 45.16 | 82.35 | 668.27 | 360.61 | 2.17 | SF(Lo) |
| 12900.00 | 12832.11 | 90.00 | 266.68 | 7008.00 | 158.49 | 45.88 | 82.35 | 668.27 | 355.15 | 2.13 | SF(Lo) |
| 13000.00 | 12932.11 | 90.00 | 266.68 | 7008.00 | 161.25 | 46.60 | 82.35 | 668.27 | 349.68 | 2.10 | SF(Lo) |
| 13100.00 | 13032.11 | 90.00 | 266.68 | 7008.00 | 164.01 | 47.32 | 82.35 | 668.26 | 344.21 | 2.06 | SF(Lo) |
| 13200.00 | 13132.11 | 90.00 | 266.68 | 7008.00 | 166.77 | 48.04 | 82.35 | 668.26 | 338.74 | 2.03 | SF(Lo) |
| 13300.00 | 13232.11 | 90.00 | 266.68 | 7008.00 | 169.53 | 48.76 | 82.35 | 668.26 | 333.26 | 1.99 | SF(Lo) |
| 13400.00 | 13332.11 | 90.00 | 266.68 | 7008.00 | 172.29 | 49.49 | 82.35 | 668.26 | 327.78 | 1.96 | SF(Lo) |
| 13500.00 | 13432.11 | 90.00 | 266.68 | 7008.00 | 175.05 | 50.21 | 82.35 | 668.26 | 322.30 | 1.93 | SF(Lo) |
| 13600.00 | 13532.11 | 90.00 | 266.68 | 7008.00 | 177.81 | 50.93 | 82.35 | 668.26 | 316.82 | 1.90 | SF(Lo) |
| 13700.00 | 13632.11 | 90.00 | 266.68 | 7008.00 | 180.58 | 51.66 | 82.35 | 668.26 | 311.34 | 1.87 | SF(Lo) |
| 13800.00 | 13732.11 | 90.00 | 266.68 | 7008.00 | 183.35 | 52.38 | 82.35 | 668.26 | 305.85 | 1.84 | SF(Lo) |
| 13900.00 | 13832.11 | 90.00 | 266.68 | 7008.00 | 186.11 | 53.10 | 82.35 | 668.26 | 300.36 | 1.82 | SF(Lo) |
| 14000.00 | 13932.11 | 90.00 | 266.68 | 7008.00 | 188.88 | 53.83 | 82.35 | 668.25 | 294.87 | 1.79 | SF(Lo) |
| 14100.00 | 14032.11 | 90.00 | 266.68 | 7008.00 | 191.65 | 54.55 | 82.35 | 668.25 | 289.38 | 1.76 | SF(Lo) |
| 14200.00 | 14132.11 | 90.00 | 266.68 | 7008.00 | 194.42 | 55.28 | 82.35 | 668.25 | 283.89 | 1.74 | SF(Lo) |
| 14300.00 | 14232.11 | 90.00 | 266.68 | 7008.00 | 197.19 | 56.00 | 82.35 | 668.25 | 278.40 | 1.71 | SF(Lo) |
| 14400.00 | 14332.11 | 90.00 | 266.68 | 7008.00 | 199.96 | 56.73 | 82.35 | 668.25 | 272.90 | 1.69 | SF(Lo) |
| 14500.00 | 14432.11 | 90.00 | 266.68 | 7008.00 | 202.73 | 57.45 | 82.35 | 668.25 | 267.40 | 1.67 | SF(Lo) |
| 14600.00 | 14532.11 | 90.00 | 266.68 | 7008.00 | 205.50 | 58.18 | 82.35 | 668.25 | 261.90 | 1.64 | SF(Lo) |
| 14700.00 | 14632.11 | 90.00 | 266.68 | 7008.00 | 208.28 | 58.90 | 82.35 | 668.25 | 256.40 | 1.62 | SF(Lo) |
| 14800.00 | 14732.11 | 90.00 | 266.68 | 7008.00 | 211.05 | 59.63 | 82.35 | 668.25 | 250.90 | 1.60 | SF(Lo) |
| 14900.00 | 14832.11 | 90.00 | 266.68 | 7008.00 | 213.83 | 60.35 | 82.35 | 668.25 | 245.40 | 1.58 | SF(Lo) |
| 15000.00 | 14932.11 | 90.00 | 266.68 | 7008.00 | 216.60 | 61.08 | 82.35 | 668.24 | 239.89 | 1.56 | SF(Lo) |
| 15100.00 | 15032.11 | 90.00 | 266.68 | 7008.00 | 219.38 | 61.81 | 82.35 | 668.24 | 234.39 | 1.54 | SF(Lo) |
| 15200.00 | 15132.11 | 90.00 | 266.68 | 7008.00 | 222.15 | 62.53 | 82.35 | 668.24 | 228.88 | 1.52 | SF(Lo) |
| 15300.00 | 15232.11 | 90.00 | 266.68 | 7008.00 | 224.93 | 63.26 | 82.35 | 668.24 | 223.38 | 1.50 | SF(Lo) |
| 15400.00 | 15332.11 | 90.00 | 266.68 | 7008.00 | 227.71 | 63.99 | 82.35 | 668.24 | 217.87 | 1.48 | SF(Med) |
| 15500.00 | 15432.11 | 90.00 | 266.68 | 7008.00 | 230.48 | 64.71 | 82.35 | 668.24 | 212.36 | 1.47 | SF(Med) |
| 15600.00 | 15501.26 | 90.00 | 266.68 | 7008.00 | 232.41 | 65.22 | 82.35 | 668.95 | 209.19 | 1.45 | SF(Med) |
| 15600.60 | 15501.26 | 90.00 | 266.68 | 7008.00 | 232.41 | 65.22 | 82.35 | 668.98 | 209.22 | 1.46 | SF(Med) |
| Secondary Well: Goetzel 12N-30A-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
| Pri MD (US ft) | Sec MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Risk |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 359.95 | 40.07 | 39.34 | 54.65 | CC (Lo) |
| 100.00 | 100.00 | 0.00 | 0.00 | 100.00 | 0.11 | 0.11 | 359.95 | 40.07 | 39.12 | 42.01 | CC (Lo) |
| 200.00 | 200.00 | 0.00 | 0.00 | 200.00 | 0.34 | 0.34 | 359.95 | 40.07 | 38.67 | 28.55 | CC (Lo) |
| 300.00 | 300.00 | 0.00 | 0.00 | 300.00 | 0.56 | 0.56 | 359.95 | 40.07 | 38.22 | 21.63 | CC (Lo) |
| 400.00 | 400.00 | 0.00 | 0.00 | 400.00 | 0.79 | 0.79 | 359.95 | 40.07 | 37.77 | 17.40 | CC (Lo) |
| 500.00 | 500.00 | 0.00 | 0.00 | 500.00 | 1.01 | 1.01 | 359.95 | 40.07 | 37.32 | 14.56 | CC (Lo) |

5D Anti-Collision Report

| Secondary Well: Goetzel 12N-30A-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
|--|-------------------|------------|-----------|----------------|--------------------|--------------------|-------------------------|---------------|---------------|-------|---------|
| Pri MD (US ft) | Sec MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Risk |
| 600.00 | 600.00 | 0.00 | 0.00 | 600.00 | 1.24 | 1.24 | 359.95 | 40.07 | 36.87 | 12.52 | CC (Lo) |
| 700.00 | 700.00 | 0.00 | 0.00 | 700.00 | 1.46 | 1.46 | 359.95 | 40.07 | 36.42 | 10.98 | CC (Lo) |
| 800.00 | 800.00 | 0.00 | 0.00 | 800.00 | 1.69 | 1.69 | 359.95 | 40.07 | 35.97 | 9.77 | CC (Lo) |
| 900.00 | 900.00 | 0.00 | 0.00 | 900.00 | 1.91 | 1.91 | 359.95 | 40.07 | 35.52 | 8.81 | CC (Lo) |
| 1000.00 | 1000.00 | 0.00 | 0.00 | 1000.00 | 2.14 | 2.14 | 359.95 | 40.07 | 35.07 | 8.01 | CC (Lo) |
| 1100.00 | 1100.00 | 0.00 | 0.00 | 1100.00 | 2.36 | 2.36 | 359.95 | 40.07 | 34.62 | 7.35 | CC (Lo) |
| 1200.00 | 1200.00 | 0.00 | 0.00 | 1200.00 | 2.58 | 2.58 | 244.12 | 40.26 | 34.38 | 6.85 | CC (Lo) |
| 1300.00 | 1299.93 | 0.00 | 0.00 | 1299.93 | 2.81 | 2.81 | 239.86 | 41.90 | 35.62 | 6.67 | CC (Lo) |
| 1400.00 | 1399.68 | 0.00 | 0.00 | 1399.68 | 3.03 | 3.03 | 232.37 | 45.81 | 39.09 | 6.82 | CC (Lo) |
| 1500.00 | 1499.62 | 0.99 | 100.92 | 1499.61 | 3.25 | 3.25 | 223.83 | 52.63 | 45.49 | 7.37 | CC (Lo) |
| 1600.00 | 1600.21 | 3.00 | 100.92 | 1600.14 | 3.45 | 3.44 | 217.60 | 61.23 | 53.68 | 8.11 | CC (Lo) |
| 1700.00 | 1701.13 | 5.02 | 100.92 | 1700.81 | 3.65 | 3.63 | 213.51 | 70.92 | 62.95 | 8.90 | |
| 1800.00 | 1802.39 | 7.05 | 100.92 | 1801.50 | 3.88 | 3.83 | 210.93 | 81.38 | 72.96 | 9.67 | |
| 1900.00 | 1903.95 | 9.08 | 100.92 | 1902.06 | 4.12 | 4.03 | 209.42 | 92.44 | 83.55 | 10.40 | |
| 2000.00 | 2005.87 | 11.12 | 100.92 | 2002.39 | 4.40 | 4.23 | 208.74 | 103.60 | 94.20 | 11.02 | |
| 2100.00 | 2108.30 | 13.17 | 100.92 | 2102.52 | 4.72 | 4.43 | 209.29 | 112.54 | 102.59 | 11.31 | |
| 2200.00 | 2211.03 | 15.22 | 100.92 | 2202.11 | 5.10 | 4.64 | 210.98 | 118.92 | 108.33 | 11.23 | |
| 2300.00 | 2313.22 | 16.88 | 100.92 | 2300.24 | 5.54 | 4.86 | 213.70 | 123.00 | 111.65 | 10.85 | |
| 2400.00 | 2412.96 | 16.88 | 100.92 | 2395.68 | 6.00 | 5.10 | 216.58 | 126.57 | 114.43 | 10.42 | |
| 2500.00 | 2512.70 | 16.88 | 100.92 | 2491.12 | 6.50 | 5.34 | 219.30 | 130.44 | 117.37 | 9.98 | |
| 2600.00 | 2612.44 | 16.88 | 100.92 | 2586.56 | 7.01 | 5.60 | 221.86 | 134.60 | 120.54 | 9.58 | |
| 2700.00 | 2712.18 | 16.88 | 100.92 | 2682.00 | 7.54 | 5.86 | 224.26 | 139.00 | 123.94 | 9.23 | |
| 2800.00 | 2811.91 | 16.88 | 100.92 | 2777.43 | 8.09 | 6.12 | 226.52 | 143.64 | 127.51 | 8.91 | |
| 2900.00 | 2911.65 | 16.88 | 100.92 | 2872.87 | 8.64 | 6.38 | 228.62 | 148.48 | 131.21 | 8.60 | |
| 3000.00 | 3011.39 | 16.88 | 100.92 | 2968.31 | 9.21 | 6.65 | 230.59 | 153.51 | 135.10 | 8.34 | |
| 3100.00 | 3111.13 | 16.88 | 100.92 | 3063.75 | 9.78 | 6.92 | 232.44 | 158.71 | 139.15 | 8.11 | |
| 3200.00 | 3210.87 | 16.88 | 100.92 | 3159.19 | 10.35 | 7.20 | 234.17 | 164.07 | 143.36 | 7.92 | |
| 3300.00 | 3310.60 | 16.88 | 100.92 | 3254.63 | 10.94 | 7.48 | 235.78 | 169.56 | 147.69 | 7.75 | |
| 3400.00 | 3410.34 | 16.88 | 100.92 | 3350.07 | 11.52 | 7.75 | 237.30 | 175.18 | 152.07 | 7.58 | |
| 3500.00 | 3510.08 | 16.88 | 100.92 | 3445.51 | 12.11 | 8.04 | 238.72 | 180.92 | 156.57 | 7.43 | |
| 3600.00 | 3609.82 | 16.88 | 100.92 | 3540.95 | 12.71 | 8.32 | 240.05 | 186.76 | 161.17 | 7.30 | |
| 3700.00 | 3709.56 | 16.88 | 100.92 | 3636.39 | 13.30 | 8.60 | 241.30 | 192.70 | 165.87 | 7.18 | |
| 3800.00 | 3809.29 | 16.88 | 100.92 | 3731.83 | 13.90 | 8.89 | 242.47 | 198.72 | 170.67 | 7.08 | |
| 3900.00 | 3909.03 | 16.88 | 100.92 | 3827.27 | 14.50 | 9.17 | 243.58 | 204.81 | 175.54 | 7.00 | |
| 4000.00 | 4008.77 | 16.88 | 100.92 | 3922.71 | 15.10 | 9.46 | 244.62 | 210.99 | 180.49 | 6.92 | |
| 4100.00 | 4108.51 | 16.88 | 100.92 | 4018.14 | 15.71 | 9.75 | 245.60 | 217.22 | 185.51 | 6.85 | |
| 4200.00 | 4208.25 | 16.88 | 100.92 | 4113.58 | 16.31 | 10.04 | 246.53 | 223.52 | 190.59 | 6.79 | |
| 4300.00 | 4307.98 | 16.88 | 100.92 | 4209.02 | 16.92 | 10.33 | 247.41 | 229.87 | 195.72 | 6.73 | |
| 4400.00 | 4407.72 | 16.88 | 100.92 | 4304.46 | 17.53 | 10.62 | 248.23 | 236.27 | 200.88 | 6.68 | |
| 4500.00 | 4507.46 | 16.88 | 100.92 | 4399.90 | 18.14 | 10.91 | 249.02 | 242.72 | 206.10 | 6.63 | |
| 4600.00 | 4607.20 | 16.88 | 100.92 | 4495.34 | 18.75 | 11.21 | 249.76 | 249.21 | 211.33 | 6.58 | |
| 4700.00 | 4706.94 | 16.88 | 100.92 | 4590.78 | 19.36 | 11.50 | 250.47 | 255.74 | 216.61 | 6.53 | |
| 4800.00 | 4806.68 | 16.88 | 100.92 | 4686.22 | 19.97 | 11.79 | 251.14 | 262.31 | 221.92 | 6.49 | |
| 4900.00 | 4906.41 | 16.88 | 100.92 | 4781.66 | 20.58 | 12.09 | 251.78 | 268.92 | 227.28 | 6.46 | |
| 5000.00 | 5006.15 | 16.88 | 100.92 | 4877.10 | 21.19 | 12.38 | 252.39 | 275.55 | 232.67 | 6.43 | |
| 5100.00 | 5105.89 | 16.88 | 100.92 | 4972.54 | 21.81 | 12.68 | 252.97 | 282.21 | 238.09 | 6.40 | |
| 5200.00 | 5205.63 | 16.88 | 100.92 | 5067.98 | 22.42 | 12.97 | 253.52 | 288.90 | 243.54 | 6.37 | |
| 5300.00 | 5305.37 | 16.88 | 100.92 | 5163.42 | 23.03 | 13.27 | 254.05 | 295.62 | 249.02 | 6.34 | |
| 5400.00 | 5405.10 | 16.88 | 100.92 | 5258.85 | 23.65 | 13.56 | 254.55 | 302.36 | 254.53 | 6.32 | |
| 5500.00 | 5504.84 | 16.88 | 100.92 | 5354.29 | 24.26 | 13.86 | 255.03 | 309.12 | 260.06 | 6.30 | |
| 5600.00 | 5604.58 | 16.88 | 100.92 | 5449.73 | 24.88 | 14.16 | 255.49 | 315.91 | 265.61 | 6.28 | |
| 5700.00 | 5704.32 | 16.88 | 100.92 | 5545.17 | 25.50 | 14.46 | 255.94 | 322.71 | 271.19 | 6.26 | |
| 5800.00 | 5804.06 | 16.88 | 100.92 | 5640.61 | 26.11 | 14.75 | 256.36 | 329.53 | 276.79 | 6.25 | |
| 5900.00 | 5903.79 | 16.88 | 100.92 | 5736.05 | 26.73 | 15.05 | 256.77 | 336.37 | 282.40 | 6.23 | |
| 6000.00 | 6003.53 | 16.88 | 100.92 | 5831.49 | 27.35 | 15.35 | 257.16 | 343.23 | 288.04 | 6.22 | |
| 6100.00 | 6105.46 | 15.59 | 102.14 | 5929.08 | 27.95 | 15.66 | 257.51 | 350.05 | 293.64 | 6.21 | |
| 6200.00 | 6219.68 | 7.20 | 121.86 | 6040.99 | 28.30 | 15.83 | 256.09 | 354.24 | 296.99 | 6.19 | |
| 6300.00 | 6328.94 | 4.98 | 211.82 | 6149.82 | 28.37 | 15.65 | 252.13 | 355.41 | 297.96 | 6.19 | |

5D Anti-Collision Report

| Secondary Well: Goetzel 12N-30A-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
|--|-------------------|------------|-----------|----------------|--------------------|--------------------|-------------------------|---------------|---------------|-------|--------|
| Pri MD (US ft) | Sec MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Risk |
| 6400.00 | 6428.98 | 11.57 | 246.73 | 6248.82 | 28.27 | 15.18 | 246.05 | 356.54 | 299.66 | 6.27 | |
| 6500.00 | 6521.07 | 18.63 | 254.96 | 6337.68 | 28.05 | 14.53 | 215.92 | 361.60 | 305.89 | 6.49 | |
| 6600.00 | 6608.69 | 25.51 | 258.60 | 6418.83 | 27.78 | 13.72 | 157.70 | 371.37 | 317.43 | 6.88 | |
| 6700.00 | 6692.65 | 32.15 | 260.69 | 6492.34 | 27.48 | 12.82 | 115.15 | 384.85 | 332.96 | 7.42 | |
| 6800.00 | 6773.64 | 38.58 | 262.09 | 6558.35 | 27.20 | 11.87 | 95.83 | 400.87 | 350.82 | 8.01 | |
| 6900.00 | 6852.20 | 44.83 | 263.11 | 6616.97 | 26.97 | 10.93 | 84.75 | 418.29 | 369.86 | 8.64 | |
| 7000.00 | 6928.77 | 50.93 | 263.91 | 6668.30 | 26.81 | 10.07 | 77.22 | 436.09 | 389.04 | 9.27 | |
| 7100.00 | 7003.73 | 56.90 | 264.56 | 6712.43 | 26.74 | 9.36 | 71.67 | 453.38 | 407.41 | 9.86 | |
| 7200.00 | 7077.40 | 62.78 | 265.13 | 6749.43 | 26.80 | 8.88 | 67.46 | 469.44 | 424.06 | 10.35 | |
| 7300.00 | 7150.03 | 68.57 | 265.63 | 6779.34 | 26.99 | 8.69 | 64.25 | 483.68 | 438.39 | 10.68 | |
| 7400.00 | 7221.87 | 74.30 | 266.09 | 6802.20 | 27.29 | 8.82 | 61.86 | 495.66 | 449.89 | 10.83 | |
| 7500.00 | 7293.11 | 79.98 | 266.52 | 6818.05 | 27.71 | 9.26 | 60.16 | 505.02 | 458.34 | 10.82 | |
| 7600.00 | 7363.95 | 85.63 | 266.93 | 6826.92 | 28.28 | 9.97 | 59.10 | 511.53 | 463.31 | 10.61 | |
| 7700.00 | 7441.17 | 90.00 | 267.24 | 6829.00 | 28.98 | 10.75 | 58.63 | 514.88 | 464.89 | 10.30 | |
| 7800.00 | 7541.17 | 90.00 | 267.24 | 6829.00 | 30.09 | 11.23 | 58.69 | 515.72 | 463.96 | 9.97 | |
| 7900.00 | 7641.16 | 90.00 | 267.24 | 6829.00 | 31.40 | 11.74 | 58.75 | 516.56 | 462.61 | 9.58 | |
| 8000.00 | 7741.16 | 90.00 | 267.24 | 6829.00 | 32.89 | 12.27 | 58.80 | 517.40 | 460.82 | 9.14 | |
| 8100.00 | 7841.15 | 90.00 | 267.24 | 6829.00 | 34.55 | 12.83 | 58.86 | 518.24 | 458.78 | 8.72 | |
| 8200.00 | 7941.15 | 90.00 | 267.24 | 6829.00 | 36.34 | 13.40 | 58.91 | 519.08 | 456.54 | 8.30 | |
| 8300.00 | 8041.14 | 90.00 | 267.24 | 6829.00 | 38.26 | 13.98 | 58.97 | 519.92 | 454.10 | 7.90 | |
| 8400.00 | 8141.14 | 90.00 | 267.24 | 6829.00 | 40.28 | 14.58 | 59.03 | 520.77 | 451.37 | 7.50 | |
| 8500.00 | 8241.13 | 90.00 | 267.24 | 6829.00 | 42.39 | 15.19 | 59.08 | 521.61 | 448.51 | 7.14 | |
| 8600.00 | 8341.13 | 90.00 | 267.24 | 6829.00 | 44.58 | 15.81 | 59.14 | 522.45 | 445.53 | 6.79 | |
| 8700.00 | 8441.12 | 90.00 | 267.24 | 6829.00 | 46.83 | 16.44 | 59.19 | 523.30 | 442.43 | 6.47 | |
| 8800.00 | 8541.12 | 90.00 | 267.24 | 6829.00 | 49.14 | 17.08 | 59.25 | 524.14 | 439.25 | 6.17 | |
| 8900.00 | 8641.11 | 90.00 | 267.24 | 6829.00 | 51.50 | 17.73 | 59.30 | 524.99 | 435.99 | 5.90 | |
| 9000.00 | 8741.11 | 90.00 | 267.24 | 6829.00 | 53.90 | 18.38 | 59.36 | 525.83 | 432.66 | 5.64 | |
| 9100.00 | 8841.10 | 90.00 | 267.24 | 6829.00 | 56.33 | 19.04 | 59.41 | 526.68 | 429.24 | 5.41 | |
| 9200.00 | 8941.10 | 90.00 | 267.24 | 6829.00 | 58.80 | 19.70 | 59.47 | 527.53 | 425.73 | 5.18 | |
| 9300.00 | 9041.09 | 90.00 | 267.24 | 6829.00 | 61.30 | 20.37 | 59.52 | 528.37 | 422.18 | 4.98 | |
| 9400.00 | 9141.09 | 90.00 | 267.24 | 6829.00 | 63.82 | 21.04 | 59.57 | 529.22 | 418.59 | 4.78 | |
| 9500.00 | 9241.08 | 90.00 | 267.24 | 6829.00 | 66.37 | 21.72 | 59.63 | 530.07 | 414.97 | 4.61 | |
| 9600.00 | 9341.08 | 90.00 | 267.24 | 6829.00 | 68.93 | 22.40 | 59.68 | 530.92 | 411.32 | 4.44 | |
| 9700.00 | 9441.07 | 90.00 | 267.24 | 6829.00 | 71.52 | 23.08 | 59.74 | 531.77 | 407.63 | 4.28 | |
| 9800.00 | 9541.07 | 90.00 | 267.24 | 6829.00 | 74.12 | 23.77 | 59.79 | 532.62 | 403.84 | 4.14 | |
| 9900.00 | 9641.06 | 90.00 | 267.24 | 6829.00 | 76.73 | 24.46 | 59.84 | 533.47 | 400.02 | 4.00 | |
| 10000.00 | 9741.06 | 90.00 | 267.24 | 6829.00 | 79.35 | 25.15 | 59.89 | 534.32 | 396.18 | 3.87 | |
| 10100.00 | 9841.05 | 90.00 | 267.24 | 6829.00 | 81.99 | 25.84 | 59.95 | 535.17 | 392.32 | 3.75 | |
| 10200.00 | 9941.05 | 90.00 | 267.24 | 6829.00 | 84.64 | 26.54 | 60.00 | 536.02 | 388.44 | 3.63 | |
| 10300.00 | 10041.04 | 90.00 | 267.24 | 6829.00 | 87.30 | 27.24 | 60.05 | 536.87 | 384.54 | 3.52 | |
| 10400.00 | 10141.04 | 90.00 | 267.24 | 6829.00 | 89.96 | 27.94 | 60.10 | 537.72 | 380.62 | 3.42 | |
| 10500.00 | 10241.03 | 90.00 | 267.24 | 6829.00 | 92.64 | 28.64 | 60.16 | 538.58 | 376.69 | 3.33 | |
| 10600.00 | 10341.03 | 90.00 | 267.24 | 6829.00 | 95.32 | 29.34 | 60.21 | 539.43 | 372.75 | 3.24 | |
| 10700.00 | 10441.02 | 90.00 | 267.24 | 6829.00 | 98.01 | 30.05 | 60.26 | 540.28 | 368.79 | 3.15 | |
| 10800.00 | 10541.02 | 90.00 | 267.24 | 6829.00 | 100.70 | 30.75 | 60.31 | 541.14 | 364.82 | 3.07 | |
| 10900.00 | 10641.02 | 90.00 | 267.24 | 6829.00 | 103.40 | 31.46 | 60.36 | 541.99 | 360.84 | 2.99 | |
| 11000.00 | 10741.01 | 90.00 | 267.24 | 6829.00 | 106.10 | 32.17 | 60.42 | 542.85 | 356.85 | 2.92 | |
| 11100.00 | 10841.01 | 90.00 | 267.24 | 6829.00 | 108.81 | 32.88 | 60.47 | 543.70 | 352.84 | 2.85 | |
| 11200.00 | 10941.00 | 90.00 | 267.24 | 6829.00 | 111.53 | 33.59 | 60.52 | 544.56 | 348.83 | 2.78 | |
| 11300.00 | 11041.00 | 90.00 | 267.24 | 6829.00 | 114.25 | 34.30 | 60.57 | 545.41 | 344.80 | 2.72 | |
| 11400.00 | 11140.99 | 90.00 | 267.24 | 6829.00 | 116.97 | 35.01 | 60.62 | 546.27 | 340.76 | 2.66 | |
| 11500.00 | 11240.99 | 90.00 | 267.24 | 6829.00 | 119.69 | 35.73 | 60.67 | 547.13 | 336.72 | 2.60 | |
| 11600.00 | 11340.98 | 90.00 | 267.24 | 6829.00 | 122.42 | 36.44 | 60.72 | 547.98 | 332.67 | 2.55 | |
| 11700.00 | 11440.98 | 90.00 | 267.24 | 6829.00 | 125.16 | 37.15 | 60.77 | 548.84 | 328.60 | 2.49 | SF(Lo) |
| 11800.00 | 11540.97 | 90.00 | 267.24 | 6829.00 | 127.89 | 37.87 | 60.82 | 549.70 | 324.53 | 2.44 | SF(Lo) |
| 11900.00 | 11640.97 | 90.00 | 267.24 | 6829.00 | 130.63 | 38.59 | 60.87 | 550.56 | 320.46 | 2.39 | SF(Lo) |
| 12000.00 | 11740.96 | 90.00 | 267.24 | 6829.00 | 133.37 | 39.30 | 60.92 | 551.42 | 316.37 | 2.35 | SF(Lo) |
| 12100.00 | 11840.96 | 90.00 | 267.24 | 6829.00 | 136.11 | 40.02 | 60.97 | 552.28 | 312.28 | 2.30 | SF(Lo) |

5D Anti-Collision Report

| Secondary Well: Goetzel 12N-30A-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
|--|-------------------|------------|-----------|----------------|--------------------|--------------------|-------------------------|---------------|---------------|-------|----------|
| Pri MD (US ft) | Sec MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Risk |
| 12200.00 | 11940.95 | 90.00 | 267.24 | 6829.00 | 138.86 | 40.74 | 61.02 | 553.14 | 308.18 | 2.26 | SF(Lo) |
| 12300.00 | 12040.95 | 90.00 | 267.24 | 6829.00 | 141.61 | 41.46 | 61.07 | 554.00 | 304.07 | 2.22 | SF(Lo) |
| 12400.00 | 12140.94 | 90.00 | 267.24 | 6829.00 | 144.36 | 42.18 | 61.12 | 554.86 | 299.96 | 2.18 | SF(Lo) |
| 12500.00 | 12240.94 | 90.00 | 267.24 | 6829.00 | 147.11 | 42.90 | 61.17 | 555.72 | 295.84 | 2.14 | SF(Lo) |
| 12600.00 | 12340.93 | 90.00 | 267.24 | 6829.00 | 149.86 | 43.62 | 61.21 | 556.58 | 291.71 | 2.10 | SF(Lo) |
| 12700.00 | 12440.93 | 90.00 | 267.24 | 6829.00 | 152.62 | 44.34 | 61.26 | 557.44 | 287.58 | 2.07 | SF(Lo) |
| 12800.00 | 12540.92 | 90.00 | 267.24 | 6829.00 | 155.37 | 45.06 | 61.31 | 558.31 | 283.44 | 2.03 | SF(Lo) |
| 12900.00 | 12640.92 | 90.00 | 267.24 | 6829.00 | 158.13 | 45.78 | 61.36 | 559.17 | 279.30 | 2.00 | SF(Lo) |
| 13000.00 | 12740.91 | 90.00 | 267.24 | 6829.00 | 160.89 | 46.50 | 61.41 | 560.03 | 275.15 | 1.97 | SF(Lo) |
| 13100.00 | 12840.91 | 90.00 | 267.24 | 6829.00 | 163.65 | 47.22 | 61.46 | 560.90 | 271.00 | 1.93 | SF(Lo) |
| 13200.00 | 12940.90 | 90.00 | 267.24 | 6829.00 | 166.41 | 47.94 | 61.50 | 561.76 | 266.84 | 1.90 | SF(Lo) |
| 13300.00 | 13040.90 | 90.00 | 267.24 | 6829.00 | 169.18 | 48.67 | 61.55 | 562.62 | 262.67 | 1.88 | SF(Lo) |
| 13400.00 | 13140.89 | 90.00 | 267.24 | 6829.00 | 171.94 | 49.39 | 61.60 | 563.49 | 258.50 | 1.85 | SF(Lo) |
| 13500.00 | 13240.89 | 90.00 | 267.24 | 6829.00 | 174.71 | 50.11 | 61.65 | 564.35 | 254.33 | 1.82 | SF(Lo) |
| 13600.00 | 13340.88 | 90.00 | 267.24 | 6829.00 | 177.47 | 50.84 | 61.69 | 565.22 | 250.15 | 1.79 | SF(Lo) |
| 13700.00 | 13440.88 | 90.00 | 267.24 | 6829.00 | 180.24 | 51.56 | 61.74 | 566.08 | 245.97 | 1.77 | SF(Lo) |
| 13800.00 | 13540.87 | 90.00 | 267.24 | 6829.00 | 183.01 | 52.28 | 61.79 | 566.95 | 241.78 | 1.74 | SF(Lo) |
| 13900.00 | 13640.87 | 90.00 | 267.24 | 6829.00 | 185.78 | 53.01 | 61.84 | 567.82 | 237.59 | 1.72 | SF(Lo) |
| 14000.00 | 13740.87 | 90.00 | 267.24 | 6829.00 | 188.55 | 53.73 | 61.88 | 568.68 | 233.39 | 1.70 | SF(Lo) |
| 14100.00 | 13840.86 | 90.00 | 267.24 | 6829.00 | 191.32 | 54.46 | 61.93 | 569.55 | 229.19 | 1.67 | SF(Lo) |
| 14200.00 | 13940.86 | 90.00 | 267.24 | 6829.00 | 194.10 | 55.18 | 61.98 | 570.42 | 224.98 | 1.65 | SF(Lo) |
| 14300.00 | 14040.85 | 90.00 | 267.24 | 6829.00 | 196.87 | 55.91 | 62.02 | 571.29 | 220.77 | 1.63 | SF(Lo) |
| 14400.00 | 14140.85 | 90.00 | 267.24 | 6829.00 | 199.64 | 56.63 | 62.07 | 572.16 | 216.56 | 1.61 | SF(Lo) |
| 14500.00 | 14240.84 | 90.00 | 267.24 | 6829.00 | 202.42 | 57.36 | 62.11 | 573.03 | 212.34 | 1.59 | SF(Lo) |
| 14600.00 | 14340.84 | 90.00 | 267.24 | 6829.00 | 205.19 | 58.08 | 62.16 | 573.90 | 208.12 | 1.57 | SF(Lo) |
| 14700.00 | 14440.83 | 90.00 | 267.24 | 6829.00 | 207.97 | 58.81 | 62.21 | 574.76 | 203.89 | 1.55 | SF(Lo) |
| 14800.00 | 14540.83 | 90.00 | 267.24 | 6829.00 | 210.75 | 59.54 | 62.25 | 575.63 | 199.66 | 1.53 | SF(Lo) |
| 14900.00 | 14640.82 | 90.00 | 267.24 | 6829.00 | 213.53 | 60.26 | 62.30 | 576.51 | 195.43 | 1.51 | SF(Lo) |
| 15000.00 | 14740.82 | 90.00 | 267.24 | 6829.00 | 216.30 | 60.99 | 62.34 | 577.38 | 191.19 | 1.50 | SF(Med) |
| 15100.00 | 14840.81 | 90.00 | 267.24 | 6829.00 | 219.08 | 61.72 | 62.39 | 578.25 | 186.95 | 1.48 | SF(Med) |
| 15200.00 | 14940.81 | 90.00 | 267.24 | 6829.00 | 221.86 | 62.44 | 62.43 | 579.12 | 182.71 | 1.46 | SF(Med) |
| 15300.00 | 15040.80 | 90.00 | 267.24 | 6829.00 | 224.64 | 63.17 | 62.48 | 579.99 | 178.46 | 1.44 | SF(Med) |
| 15400.00 | 15140.80 | 90.00 | 267.24 | 6829.00 | 227.42 | 63.90 | 62.52 | 580.86 | 174.21 | 1.43 | SF(Med) |
| 15500.00 | 15240.79 | 90.00 | 267.24 | 6829.00 | 230.20 | 64.62 | 62.57 | 581.74 | 169.95 | 1.41 | SF(Med) |
| 15600.00 | 15322.07 | 90.00 | 267.24 | 6829.00 | 232.46 | 65.22 | 62.60 | 582.91 | 166.90 | 1.40 | SF(Med) |
| 15600.60 | 15322.07 | 90.00 | 267.24 | 6829.00 | 232.46 | 65.22 | 62.60 | 582.93 | 166.93 | 1.40 | SF(Med) |
| Secondary Well: Goetzel 12N-30B-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
| Pri MD (US ft) | Sec MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Risk |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 359.55 | 20.04 | 19.30 | 27.32 | CC (Med) |
| 100.00 | 100.00 | 0.00 | 0.00 | 100.00 | 0.11 | 0.11 | 359.55 | 20.04 | 19.08 | 21.00 | CC (Med) |
| 200.00 | 200.00 | 0.00 | 0.00 | 200.00 | 0.34 | 0.34 | 359.55 | 20.04 | 18.63 | 14.28 | CC (Med) |
| 300.00 | 300.00 | 0.00 | 0.00 | 300.00 | 0.56 | 0.56 | 359.55 | 20.04 | 18.18 | 10.81 | CC (Med) |
| 400.00 | 400.00 | 0.00 | 0.00 | 400.00 | 0.79 | 0.79 | 359.55 | 20.04 | 17.73 | 8.70 | CC (Med) |
| 500.00 | 500.00 | 0.00 | 0.00 | 500.00 | 1.01 | 1.01 | 359.55 | 20.04 | 17.28 | 7.28 | CC (Med) |
| 600.00 | 600.00 | 0.00 | 0.00 | 600.00 | 1.24 | 1.24 | 359.55 | 20.04 | 16.83 | 6.26 | CC (Med) |
| 700.00 | 700.00 | 0.00 | 0.00 | 700.00 | 1.46 | 1.46 | 359.55 | 20.04 | 16.39 | 5.49 | CC (Med) |
| 800.00 | 800.00 | 0.00 | 0.00 | 800.00 | 1.69 | 1.69 | 359.55 | 20.04 | 15.94 | 4.89 | CC (Med) |
| 900.00 | 900.00 | 0.00 | 0.00 | 900.00 | 1.91 | 1.91 | 359.55 | 20.04 | 15.49 | 4.40 | CC (Med) |
| 1000.00 | 1000.00 | 0.00 | 0.00 | 1000.00 | 2.14 | 2.14 | 359.55 | 20.04 | 15.04 | 4.01 | CC (Med) |
| 1100.00 | 1100.00 | 0.00 | 0.00 | 1100.00 | 2.36 | 2.36 | 359.55 | 20.04 | 14.59 | 3.68 | CC (Med) |
| 1200.00 | 1200.00 | 0.00 | 0.00 | 1200.00 | 2.58 | 2.58 | 243.17 | 20.23 | 14.35 | 3.44 | CC (Med) |
| 1300.00 | 1299.93 | 0.00 | 0.00 | 1299.93 | 2.81 | 2.81 | 235.08 | 22.03 | 15.72 | 3.49 | CC (Med) |
| 1400.00 | 1400.24 | 2.00 | 107.85 | 1400.22 | 3.02 | 3.02 | 225.70 | 25.56 | 18.87 | 3.82 | CC (Med) |
| 1500.00 | 1500.73 | 4.01 | 107.85 | 1500.56 | 3.21 | 3.20 | 219.40 | 29.90 | 22.81 | 4.22 | CC (Med) |
| 1600.00 | 1601.39 | 6.03 | 107.85 | 1600.84 | 3.43 | 3.40 | 215.35 | 34.78 | 27.27 | 4.63 | CC (Lo) |
| 1700.00 | 1702.23 | 8.04 | 107.85 | 1700.91 | 3.66 | 3.59 | 212.86 | 40.03 | 32.10 | 5.04 | CC (Lo) |

5D Anti-Collision Report

| Secondary Well: Goetzel 12N-30B-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
|--|-------------------|------------|-----------|----------------|--------------------|--------------------|-------------------------|---------------|---------------|------|---------|
| Pri MD (US ft) | Sec MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Risk |
| 1800.00 | 1803.24 | 10.06 | 107.85 | 1800.65 | 3.92 | 3.79 | 211.45 | 45.57 | 37.18 | 5.43 | CC (Lo) |
| 1900.00 | 1904.41 | 12.09 | 107.85 | 1899.94 | 4.22 | 3.99 | 210.80 | 51.36 | 42.46 | 5.77 | CC (Lo) |
| 2000.00 | 2005.77 | 14.12 | 107.85 | 1998.65 | 4.57 | 4.19 | 210.89 | 56.96 | 47.53 | 6.04 | CC (Lo) |
| 2100.00 | 2107.31 | 16.15 | 107.85 | 2096.67 | 4.98 | 4.41 | 212.85 | 60.18 | 50.11 | 5.98 | CC (Lo) |
| 2200.00 | 2207.35 | 16.27 | 107.85 | 2192.70 | 5.43 | 4.64 | 215.80 | 61.99 | 51.16 | 5.72 | CC (Lo) |
| 2300.00 | 2307.28 | 16.27 | 107.85 | 2288.63 | 5.91 | 4.89 | 218.58 | 63.94 | 52.31 | 5.50 | CC (Lo) |
| 2400.00 | 2407.22 | 16.27 | 107.85 | 2384.56 | 6.41 | 5.14 | 221.19 | 66.04 | 53.54 | 5.28 | |
| 2500.00 | 2507.15 | 16.27 | 107.85 | 2480.49 | 6.93 | 5.39 | 223.64 | 68.27 | 54.81 | 5.07 | |
| 2600.00 | 2607.08 | 16.27 | 107.85 | 2576.42 | 7.46 | 5.65 | 225.92 | 70.61 | 56.16 | 4.88 | |
| 2700.00 | 2707.02 | 16.27 | 107.85 | 2672.35 | 8.00 | 5.92 | 228.06 | 73.06 | 57.55 | 4.71 | |
| 2800.00 | 2806.95 | 16.27 | 107.85 | 2768.28 | 8.55 | 6.19 | 230.06 | 75.61 | 59.02 | 4.56 | |
| 2900.00 | 2906.89 | 16.27 | 107.85 | 2864.21 | 9.11 | 6.46 | 231.92 | 78.24 | 60.54 | 4.42 | |
| 3000.00 | 3006.82 | 16.27 | 107.85 | 2960.14 | 9.67 | 6.73 | 233.66 | 80.94 | 62.11 | 4.30 | |
| 3100.00 | 3106.75 | 16.27 | 107.85 | 3056.07 | 10.24 | 7.00 | 235.29 | 83.72 | 63.76 | 4.19 | |
| 3200.00 | 3206.69 | 16.27 | 107.85 | 3152.00 | 10.81 | 7.28 | 236.81 | 86.56 | 65.42 | 4.10 | |
| 3300.00 | 3306.62 | 16.27 | 107.85 | 3247.93 | 11.38 | 7.56 | 238.23 | 89.46 | 67.14 | 4.01 | |
| 3400.00 | 3406.56 | 16.27 | 107.85 | 3343.86 | 11.96 | 7.84 | 239.56 | 92.40 | 68.90 | 3.93 | |
| 3500.00 | 3506.49 | 16.27 | 107.85 | 3439.80 | 12.54 | 8.12 | 240.81 | 95.40 | 70.72 | 3.86 | |
| 3600.00 | 3606.43 | 16.27 | 107.85 | 3535.73 | 13.12 | 8.40 | 241.99 | 98.44 | 72.55 | 3.80 | |
| 3700.00 | 3706.36 | 16.27 | 107.85 | 3631.66 | 13.71 | 8.69 | 243.09 | 101.51 | 74.41 | 3.75 | |
| 3800.00 | 3806.29 | 16.27 | 107.85 | 3727.59 | 14.30 | 8.97 | 244.13 | 104.63 | 76.31 | 3.70 | |
| 3900.00 | 3906.23 | 16.27 | 107.85 | 3823.52 | 14.88 | 9.26 | 245.11 | 107.77 | 78.24 | 3.65 | |
| 4000.00 | 4006.16 | 16.27 | 107.85 | 3919.45 | 15.47 | 9.55 | 246.03 | 110.94 | 80.21 | 3.61 | |
| 4100.00 | 4106.10 | 16.27 | 107.85 | 4015.38 | 16.06 | 9.83 | 246.90 | 114.15 | 82.21 | 3.57 | |
| 4200.00 | 4206.03 | 16.27 | 107.85 | 4111.31 | 16.65 | 10.12 | 247.72 | 117.37 | 84.20 | 3.54 | |
| 4300.00 | 4305.96 | 16.27 | 107.85 | 4207.24 | 17.24 | 10.41 | 248.50 | 120.62 | 86.22 | 3.51 | |
| 4400.00 | 4405.90 | 16.27 | 107.85 | 4303.17 | 17.84 | 10.70 | 249.24 | 123.89 | 88.26 | 3.48 | |
| 4500.00 | 4505.83 | 16.27 | 107.85 | 4399.10 | 18.43 | 10.99 | 249.94 | 127.18 | 90.32 | 3.45 | |
| 4600.00 | 4605.77 | 16.27 | 107.85 | 4495.03 | 19.02 | 11.28 | 250.60 | 130.49 | 92.41 | 3.43 | |
| 4700.00 | 4705.70 | 16.27 | 107.85 | 4590.96 | 19.62 | 11.57 | 251.23 | 133.81 | 94.51 | 3.40 | |
| 4800.00 | 4805.64 | 16.27 | 107.85 | 4686.89 | 20.22 | 11.86 | 251.83 | 137.15 | 96.63 | 3.38 | |
| 4900.00 | 4905.57 | 16.27 | 107.85 | 4782.82 | 20.81 | 12.16 | 252.40 | 140.51 | 98.77 | 3.37 | |
| 5000.00 | 5005.50 | 16.27 | 107.85 | 4878.75 | 21.41 | 12.45 | 252.95 | 143.87 | 100.92 | 3.35 | |
| 5100.00 | 5105.44 | 16.27 | 107.85 | 4974.68 | 22.00 | 12.74 | 253.47 | 147.25 | 103.09 | 3.33 | |
| 5200.00 | 5205.37 | 16.27 | 107.85 | 5070.61 | 22.60 | 13.04 | 253.97 | 150.64 | 105.27 | 3.32 | |
| 5300.00 | 5305.31 | 16.27 | 107.85 | 5166.54 | 23.20 | 13.33 | 254.44 | 154.05 | 107.46 | 3.31 | |
| 5400.00 | 5405.24 | 16.27 | 107.85 | 5262.47 | 23.80 | 13.62 | 254.90 | 157.46 | 109.67 | 3.29 | |
| 5500.00 | 5505.17 | 16.27 | 107.85 | 5358.40 | 24.40 | 13.92 | 255.33 | 160.88 | 111.88 | 3.28 | |
| 5600.00 | 5605.11 | 16.27 | 107.85 | 5454.34 | 24.99 | 14.21 | 255.75 | 164.31 | 114.09 | 3.27 | |
| 5700.00 | 5705.04 | 16.27 | 107.85 | 5550.27 | 25.59 | 14.51 | 256.15 | 167.75 | 116.30 | 3.26 | |
| 5800.00 | 5804.98 | 16.27 | 107.85 | 5646.20 | 26.19 | 14.80 | 256.53 | 171.20 | 118.53 | 3.25 | |
| 5900.00 | 5904.91 | 16.27 | 107.85 | 5742.13 | 26.79 | 15.09 | 256.90 | 174.65 | 120.77 | 3.24 | |
| 6000.00 | 6004.84 | 16.27 | 107.85 | 5838.06 | 27.39 | 15.39 | 257.26 | 178.11 | 123.01 | 3.23 | |
| 6100.00 | 6104.78 | 16.27 | 107.85 | 5933.99 | 27.99 | 15.69 | 257.60 | 181.58 | 125.26 | 3.22 | |
| 6200.00 | 6204.71 | 16.27 | 107.85 | 6029.92 | 28.59 | 15.98 | 257.92 | 185.05 | 127.52 | 3.22 | |
| 6300.00 | 6311.55 | 9.87 | 124.34 | 6133.76 | 29.04 | 16.24 | 256.54 | 186.94 | 128.55 | 3.20 | |
| 6400.00 | 6416.24 | 6.15 | 182.07 | 6237.56 | 29.12 | 16.18 | 250.43 | 185.70 | 127.50 | 3.19 | |
| 6500.00 | 6516.05 | 10.54 | 231.12 | 6336.40 | 28.98 | 15.86 | 219.09 | 185.79 | 129.13 | 3.28 | |
| 6600.00 | 6612.49 | 17.40 | 246.29 | 6429.96 | 28.68 | 15.29 | 159.57 | 189.17 | 134.64 | 3.47 | |
| 6700.00 | 6705.94 | 24.52 | 252.71 | 6517.18 | 28.28 | 14.52 | 115.79 | 195.41 | 143.43 | 3.76 | |
| 6800.00 | 6796.78 | 31.60 | 256.26 | 6597.30 | 27.84 | 13.59 | 95.40 | 203.83 | 154.46 | 4.13 | |
| 6900.00 | 6885.37 | 38.56 | 258.57 | 6669.75 | 27.41 | 12.56 | 83.47 | 213.65 | 166.57 | 4.54 | |
| 7000.00 | 6972.01 | 45.40 | 260.23 | 6734.12 | 27.05 | 11.50 | 75.28 | 224.11 | 178.90 | 4.96 | |
| 7100.00 | 7057.02 | 52.14 | 261.52 | 6790.12 | 26.80 | 10.50 | 69.25 | 234.50 | 190.79 | 5.36 | |
| 7200.00 | 7140.65 | 58.77 | 262.57 | 6837.52 | 26.68 | 9.67 | 64.68 | 244.27 | 201.48 | 5.71 | |
| 7300.00 | 7223.17 | 65.32 | 263.48 | 6876.18 | 26.73 | 9.12 | 61.22 | 252.94 | 210.44 | 5.95 | |
| 7400.00 | 7304.79 | 71.81 | 264.28 | 6905.99 | 26.95 | 8.96 | 58.63 | 260.15 | 217.34 | 6.08 | |
| 7500.00 | 7385.73 | 78.24 | 265.02 | 6926.89 | 27.37 | 9.25 | 56.79 | 265.62 | 221.61 | 6.04 | |

5D Anti-Collision Report

| Secondary Well: Goetzel 12N-30B-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
|--|-------------------|------------|-----------|----------------|--------------------|--------------------|-------------------------|---------------|---------------|------|---------|
| Pri MD (US ft) | Sec MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Risk |
| 7600.00 | 7466.19 | 84.64 | 265.72 | 6938.85 | 27.97 | 9.94 | 55.61 | 269.17 | 223.59 | 5.90 | |
| 7700.00 | 7549.55 | 90.00 | 266.30 | 6942.00 | 28.70 | 10.84 | 55.05 | 270.57 | 222.97 | 5.68 | |
| 7800.00 | 7649.54 | 90.00 | 266.30 | 6942.00 | 29.79 | 11.32 | 54.97 | 270.03 | 220.78 | 5.48 | |
| 7900.00 | 7749.54 | 90.00 | 266.30 | 6942.00 | 31.06 | 11.82 | 54.89 | 269.48 | 218.18 | 5.25 | |
| 8000.00 | 7849.54 | 90.00 | 266.30 | 6942.00 | 32.52 | 12.35 | 54.81 | 268.94 | 215.30 | 5.01 | |
| 8100.00 | 7949.54 | 90.00 | 266.30 | 6942.00 | 34.16 | 12.89 | 54.72 | 268.39 | 212.13 | 4.77 | |
| 8200.00 | 8049.54 | 90.00 | 266.30 | 6942.00 | 35.93 | 13.46 | 54.64 | 267.85 | 208.72 | 4.53 | |
| 8300.00 | 8149.53 | 90.00 | 266.30 | 6942.00 | 37.83 | 14.04 | 54.56 | 267.31 | 205.07 | 4.30 | |
| 8400.00 | 8249.53 | 90.00 | 266.30 | 6942.00 | 39.83 | 14.63 | 54.48 | 266.76 | 201.19 | 4.07 | |
| 8500.00 | 8349.53 | 90.00 | 266.30 | 6942.00 | 41.93 | 15.24 | 54.39 | 266.22 | 197.19 | 3.86 | |
| 8600.00 | 8449.53 | 90.00 | 266.30 | 6942.00 | 44.10 | 15.86 | 54.31 | 265.68 | 193.08 | 3.66 | |
| 8700.00 | 8549.52 | 90.00 | 266.30 | 6942.00 | 46.34 | 16.49 | 54.22 | 265.14 | 188.87 | 3.48 | |
| 8800.00 | 8649.52 | 90.00 | 266.30 | 6942.00 | 48.64 | 17.12 | 54.14 | 264.60 | 184.59 | 3.31 | |
| 8900.00 | 8749.52 | 90.00 | 266.30 | 6942.00 | 50.98 | 17.77 | 54.06 | 264.06 | 180.25 | 3.15 | |
| 9000.00 | 8849.52 | 90.00 | 266.30 | 6942.00 | 53.37 | 18.42 | 53.97 | 263.52 | 175.86 | 3.01 | |
| 9100.00 | 8949.52 | 90.00 | 266.30 | 6942.00 | 55.80 | 19.08 | 53.89 | 262.98 | 171.43 | 2.87 | |
| 9200.00 | 9049.51 | 90.00 | 266.30 | 6942.00 | 58.26 | 19.74 | 53.80 | 262.45 | 166.96 | 2.75 | |
| 9300.00 | 9149.51 | 90.00 | 266.30 | 6942.00 | 60.75 | 20.40 | 53.71 | 261.91 | 162.47 | 2.63 | |
| 9400.00 | 9249.51 | 90.00 | 266.30 | 6942.00 | 63.27 | 21.08 | 53.63 | 261.37 | 157.96 | 2.53 | |
| 9500.00 | 9349.51 | 90.00 | 266.30 | 6942.00 | 65.81 | 21.75 | 53.54 | 260.84 | 153.44 | 2.43 | SF(Lo) |
| 9600.00 | 9449.50 | 90.00 | 266.30 | 6942.00 | 68.37 | 22.43 | 53.45 | 260.30 | 148.90 | 2.34 | SF(Lo) |
| 9700.00 | 9549.50 | 90.00 | 266.30 | 6942.00 | 70.94 | 23.11 | 53.37 | 259.77 | 144.30 | 2.25 | SF(Lo) |
| 9800.00 | 9649.50 | 90.00 | 266.30 | 6942.00 | 73.54 | 23.80 | 53.28 | 259.23 | 139.67 | 2.17 | SF(Lo) |
| 9900.00 | 9749.50 | 90.00 | 266.30 | 6942.00 | 76.14 | 24.49 | 53.19 | 258.70 | 135.03 | 2.09 | SF(Lo) |
| 10000.00 | 9849.50 | 90.00 | 266.30 | 6942.00 | 78.76 | 25.18 | 53.10 | 258.17 | 130.39 | 2.02 | SF(Lo) |
| 10100.00 | 9949.49 | 90.00 | 266.30 | 6942.00 | 81.39 | 25.87 | 53.01 | 257.63 | 125.68 | 1.95 | SF(Lo) |
| 10200.00 | 10049.49 | 90.00 | 266.30 | 6942.00 | 84.04 | 26.57 | 52.92 | 257.10 | 120.95 | 1.89 | SF(Lo) |
| 10300.00 | 10149.49 | 90.00 | 266.30 | 6942.00 | 86.69 | 27.26 | 52.83 | 256.57 | 116.22 | 1.83 | SF(Lo) |
| 10400.00 | 10249.49 | 90.00 | 266.30 | 6942.00 | 89.35 | 27.96 | 52.74 | 256.04 | 111.48 | 1.77 | SF(Lo) |
| 10500.00 | 10349.48 | 90.00 | 266.30 | 6942.00 | 92.02 | 28.66 | 52.65 | 255.51 | 106.75 | 1.72 | SF(Lo) |
| 10600.00 | 10449.48 | 90.00 | 266.30 | 6942.00 | 94.69 | 29.36 | 52.56 | 254.98 | 102.02 | 1.67 | SF(Lo) |
| 10700.00 | 10549.48 | 90.00 | 266.30 | 6942.00 | 97.38 | 30.07 | 52.47 | 254.45 | 97.29 | 1.62 | SF(Lo) |
| 10800.00 | 10649.48 | 90.00 | 266.30 | 6942.00 | 100.07 | 30.77 | 52.38 | 253.92 | 92.57 | 1.57 | SF(Lo) |
| 10900.00 | 10749.48 | 90.00 | 266.30 | 6942.00 | 102.76 | 31.48 | 52.29 | 253.40 | 87.85 | 1.53 | SF(Lo) |
| 11000.00 | 10849.47 | 90.00 | 266.30 | 6942.00 | 105.46 | 32.19 | 52.20 | 252.87 | 83.13 | 1.49 | SF(Med) |
| 11100.00 | 10949.47 | 90.00 | 266.30 | 6942.00 | 108.16 | 32.90 | 52.10 | 252.34 | 78.42 | 1.45 | SF(Med) |
| 11200.00 | 11049.47 | 90.00 | 266.30 | 6942.00 | 110.87 | 33.61 | 52.01 | 251.82 | 73.72 | 1.41 | SF(Med) |
| 11300.00 | 11149.47 | 90.00 | 266.30 | 6942.00 | 113.59 | 34.32 | 51.92 | 251.29 | 69.02 | 1.38 | SF(Med) |
| 11400.00 | 11249.46 | 90.00 | 266.30 | 6942.00 | 116.30 | 35.03 | 51.82 | 250.77 | 64.33 | 1.35 | SF(Med) |
| 11500.00 | 11349.46 | 90.00 | 266.30 | 6942.00 | 119.03 | 35.74 | 51.73 | 250.25 | 59.65 | 1.31 | SF(Med) |
| 11600.00 | 11449.46 | 90.00 | 266.30 | 6942.00 | 121.75 | 36.45 | 51.63 | 249.73 | 54.97 | 1.28 | SF(Med) |
| 11700.00 | 11549.46 | 90.00 | 266.30 | 6942.00 | 124.48 | 37.17 | 51.54 | 249.20 | 50.31 | 1.25 | SF(Med) |
| 11800.00 | 11649.46 | 90.00 | 266.30 | 6942.00 | 127.21 | 37.88 | 51.44 | 248.68 | 45.65 | 1.22 | SF(Med) |
| 11900.00 | 11749.45 | 90.00 | 266.30 | 6942.00 | 129.94 | 38.60 | 51.35 | 248.16 | 41.00 | 1.20 | SF(Med) |
| 12000.00 | 11849.45 | 90.00 | 266.30 | 6942.00 | 132.68 | 39.32 | 51.25 | 247.64 | 36.36 | 1.17 | SF(Med) |
| 12100.00 | 11949.45 | 90.00 | 266.30 | 6942.00 | 135.42 | 40.03 | 51.15 | 247.12 | 31.73 | 1.15 | SF(Med) |
| 12200.00 | 12049.45 | 90.00 | 266.30 | 6942.00 | 138.16 | 40.75 | 51.06 | 246.60 | 27.11 | 1.12 | SF(Med) |
| 12300.00 | 12149.44 | 90.00 | 266.30 | 6942.00 | 140.90 | 41.47 | 50.96 | 246.09 | 22.50 | 1.10 | SF(Med) |
| 12400.00 | 12249.44 | 90.00 | 266.30 | 6942.00 | 143.64 | 42.19 | 50.86 | 245.57 | 17.90 | 1.08 | SF(Med) |
| 12500.00 | 12349.44 | 90.00 | 266.30 | 6942.00 | 146.39 | 42.91 | 50.76 | 245.05 | 13.31 | 1.06 | SF(Med) |
| 12600.00 | 12449.44 | 90.00 | 266.30 | 6942.00 | 149.14 | 43.62 | 50.66 | 244.54 | 8.73 | 1.04 | SF(Med) |
| 12700.00 | 12549.44 | 90.00 | 266.30 | 6942.00 | 151.89 | 44.34 | 50.57 | 244.02 | 4.16 | 1.02 | SF(Med) |
| 12800.00 | 12649.43 | 90.00 | 266.30 | 6942.00 | 154.64 | 45.07 | 50.47 | 243.51 | -0.39 | 1.00 | SF(Hi) |
| 12900.00 | 12749.43 | 90.00 | 266.30 | 6942.00 | 157.40 | 45.79 | 50.37 | 243.00 | -4.94 | 0.98 | SF(Hi) |
| 13000.00 | 12849.43 | 90.00 | 266.30 | 6942.00 | 160.15 | 46.51 | 50.27 | 242.48 | -9.47 | 0.96 | SF(Hi) |
| 13100.00 | 12949.43 | 90.00 | 266.30 | 6942.00 | 162.91 | 47.23 | 50.17 | 241.97 | -13.99 | 0.95 | SF(Hi) |
| 13200.00 | 13049.42 | 90.00 | 266.30 | 6942.00 | 165.67 | 47.95 | 50.06 | 241.46 | -18.49 | 0.93 | SF(Hi) |
| 13300.00 | 13149.42 | 90.00 | 266.30 | 6942.00 | 168.42 | 48.67 | 49.96 | 240.95 | -22.99 | 0.91 | SF(Hi) |

5D Anti-Collision Report

| Secondary Well: Goetzel 12N-30B-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
|--|-------------------|------------|-----------|----------------|--------------------|--------------------|-------------------------|---------------|---------------|-------|----------|
| Pri MD (US ft) | Sec MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Risk |
| 13400.00 | 13249.42 | 90.00 | 266.30 | 6942.00 | 171.18 | 49.40 | 49.86 | 240.44 | -27.47 | 0.90 | SF(Hi) |
| 13500.00 | 13349.42 | 90.00 | 266.30 | 6942.00 | 173.95 | 50.12 | 49.76 | 239.93 | -31.93 | 0.88 | SF(Hi) |
| 13600.00 | 13449.42 | 90.00 | 266.30 | 6942.00 | 176.71 | 50.84 | 49.65 | 239.42 | -36.39 | 0.87 | SF(Hi) |
| 13700.00 | 13549.41 | 90.00 | 266.30 | 6942.00 | 179.47 | 51.56 | 49.55 | 238.92 | -40.83 | 0.85 | SF(Hi) |
| 13800.00 | 13649.41 | 90.00 | 266.30 | 6942.00 | 182.24 | 52.29 | 49.45 | 238.41 | -45.25 | 0.84 | SF(Hi) |
| 13900.00 | 13749.41 | 90.00 | 266.30 | 6942.00 | 185.00 | 53.01 | 49.34 | 237.91 | -49.66 | 0.83 | SF(Hi) |
| 14000.00 | 13849.41 | 90.00 | 266.30 | 6942.00 | 187.77 | 53.74 | 49.24 | 237.40 | -54.06 | 0.81 | SF(Hi) |
| 14100.00 | 13949.40 | 90.00 | 266.30 | 6942.00 | 190.54 | 54.46 | 49.13 | 236.90 | -58.44 | 0.80 | SF(Hi) |
| 14200.00 | 14049.40 | 90.00 | 266.30 | 6942.00 | 193.30 | 55.19 | 49.03 | 236.39 | -62.81 | 0.79 | SF(Hi) |
| 14300.00 | 14149.40 | 90.00 | 266.30 | 6942.00 | 196.07 | 55.91 | 48.92 | 235.89 | -67.16 | 0.78 | SF(Hi) |
| 14400.00 | 14249.40 | 90.00 | 266.30 | 6942.00 | 198.84 | 56.64 | 48.81 | 235.39 | -71.50 | 0.77 | SF(Hi) |
| 14500.00 | 14349.40 | 90.00 | 266.30 | 6942.00 | 201.61 | 57.36 | 48.71 | 234.89 | -75.82 | 0.76 | SF(Hi) |
| 14600.00 | 14449.39 | 90.00 | 266.30 | 6942.00 | 204.38 | 58.09 | 48.60 | 234.39 | -80.13 | 0.75 | SF(Hi) |
| 14700.00 | 14549.39 | 90.00 | 266.30 | 6942.00 | 207.15 | 58.81 | 48.49 | 233.89 | -84.42 | 0.73 | SF(Hi) |
| 14800.00 | 14649.39 | 90.00 | 266.30 | 6942.00 | 209.93 | 59.54 | 48.38 | 233.39 | -88.69 | 0.72 | SF(Hi) |
| 14900.00 | 14749.39 | 90.00 | 266.30 | 6942.00 | 212.70 | 60.27 | 48.28 | 232.89 | -92.95 | 0.71 | SF(Hi) |
| 15000.00 | 14849.38 | 90.00 | 266.30 | 6942.00 | 215.47 | 60.99 | 48.17 | 232.40 | -97.19 | 0.71 | SF(Hi) |
| 15100.00 | 14949.38 | 90.00 | 266.30 | 6942.00 | 218.25 | 61.72 | 48.06 | 231.90 | -101.42 | 0.70 | SF(Hi) |
| 15200.00 | 15049.38 | 90.00 | 266.30 | 6942.00 | 221.02 | 62.44 | 47.95 | 231.41 | -105.63 | 0.69 | SF(Hi) |
| 15300.00 | 15149.38 | 90.00 | 266.30 | 6942.00 | 223.80 | 63.17 | 47.84 | 230.91 | -109.82 | 0.68 | SF(Hi) |
| 15400.00 | 15249.38 | 90.00 | 266.30 | 6942.00 | 226.57 | 63.90 | 47.72 | 230.42 | -113.99 | 0.67 | SF(Hi) |
| 15500.00 | 15349.37 | 90.00 | 266.30 | 6942.00 | 229.35 | 64.63 | 47.61 | 229.93 | -118.15 | 0.66 | SF(Hi) |
| 15600.00 | 15440.87 | 90.00 | 266.30 | 6942.00 | 231.89 | 65.29 | 47.51 | 229.59 | -121.54 | 0.65 | SF(Hi) |
| 15600.60 | 15440.87 | 90.00 | 266.30 | 6942.00 | 231.89 | 65.29 | 47.51 | 229.61 | -121.48 | 0.65 | SF(Hi) |
| Secondary Well: Goetzel 33N-30B-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
| Pri MD (US ft) | Sec MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Risk |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 180.35 | 20.04 | 19.31 | 27.33 | CC (Med) |
| 100.00 | 100.00 | 0.00 | 0.00 | 100.00 | 0.11 | 0.11 | 180.35 | 20.04 | 19.08 | 21.01 | CC (Med) |
| 200.00 | 200.00 | 0.00 | 0.00 | 200.00 | 0.34 | 0.34 | 180.35 | 20.04 | 18.64 | 14.28 | CC (Med) |
| 300.00 | 300.00 | 0.00 | 0.00 | 300.00 | 0.56 | 0.56 | 180.35 | 20.04 | 18.19 | 10.81 | CC (Med) |
| 400.00 | 400.00 | 0.00 | 0.00 | 400.00 | 0.79 | 0.79 | 180.35 | 20.04 | 17.74 | 8.70 | CC (Med) |
| 500.00 | 500.00 | 0.00 | 0.00 | 500.00 | 1.01 | 1.01 | 180.35 | 20.04 | 17.29 | 7.28 | CC (Med) |
| 600.00 | 600.00 | 0.00 | 0.00 | 600.00 | 1.24 | 1.24 | 180.35 | 20.04 | 16.84 | 6.26 | CC (Med) |
| 700.00 | 700.00 | 0.00 | 0.00 | 700.00 | 1.46 | 1.46 | 180.35 | 20.04 | 16.39 | 5.49 | CC (Med) |
| 800.00 | 800.00 | 0.00 | 0.00 | 800.00 | 1.69 | 1.69 | 180.35 | 20.04 | 15.94 | 4.89 | CC (Med) |
| 900.00 | 900.00 | 0.00 | 0.00 | 900.00 | 1.91 | 1.91 | 180.35 | 20.04 | 15.49 | 4.40 | CC (Med) |
| 1000.00 | 1000.00 | 0.00 | 0.00 | 1000.00 | 2.14 | 2.14 | 180.35 | 20.04 | 15.04 | 4.01 | CC (Med) |
| 1100.00 | 1099.58 | 1.99 | 123.78 | 1099.56 | 2.34 | 2.34 | 176.41 | 21.05 | 15.63 | 3.88 | CC (Med) |
| 1200.00 | 1198.94 | 3.98 | 123.78 | 1198.78 | 2.53 | 2.52 | 52.27 | 24.29 | 18.46 | 4.17 | CC (Med) |
| 1300.00 | 1298.10 | 5.96 | 123.78 | 1297.57 | 2.73 | 2.71 | 45.75 | 28.61 | 22.40 | 4.61 | CC (Med) |
| 1400.00 | 1397.08 | 7.94 | 123.78 | 1395.81 | 2.96 | 2.90 | 41.71 | 33.47 | 26.88 | 5.08 | CC (Lo) |
| 1500.00 | 1495.88 | 9.92 | 123.78 | 1493.41 | 3.22 | 3.10 | 39.34 | 38.72 | 31.73 | 5.54 | CC (Lo) |
| 1600.00 | 1594.49 | 11.89 | 123.78 | 1590.23 | 3.52 | 3.30 | 38.11 | 44.27 | 36.84 | 5.96 | CC (Lo) |
| 1700.00 | 1692.91 | 13.86 | 123.78 | 1686.17 | 3.88 | 3.50 | 37.64 | 50.06 | 42.17 | 6.34 | CC (Lo) |
| 1800.00 | 1791.14 | 15.82 | 123.78 | 1781.12 | 4.29 | 3.72 | 37.72 | 56.08 | 47.69 | 6.68 | CC (Lo) |
| 1900.00 | 1889.40 | 17.55 | 123.78 | 1875.19 | 4.76 | 3.94 | 38.19 | 62.31 | 53.36 | 6.96 | CC (Lo) |
| 2000.00 | 1989.26 | 17.55 | 123.78 | 1970.40 | 5.29 | 4.20 | 39.65 | 67.33 | 57.67 | 6.97 | |
| 2100.00 | 2089.13 | 17.55 | 123.78 | 2065.62 | 5.85 | 4.46 | 41.15 | 72.07 | 61.64 | 6.91 | |
| 2200.00 | 2189.00 | 17.55 | 123.78 | 2160.84 | 6.42 | 4.72 | 42.47 | 76.86 | 65.64 | 6.85 | |
| 2300.00 | 2288.87 | 17.55 | 123.78 | 2256.06 | 7.00 | 4.99 | 43.63 | 81.69 | 69.65 | 6.79 | |
| 2400.00 | 2388.75 | 17.55 | 123.78 | 2351.29 | 7.60 | 5.27 | 44.66 | 86.54 | 73.65 | 6.71 | |
| 2500.00 | 2488.62 | 17.55 | 123.78 | 2446.51 | 8.20 | 5.55 | 45.58 | 91.42 | 77.64 | 6.64 | |
| 2600.00 | 2588.49 | 17.55 | 123.78 | 2541.73 | 8.81 | 5.83 | 46.41 | 96.32 | 81.63 | 6.56 | |
| 2700.00 | 2688.36 | 17.55 | 123.78 | 2636.95 | 9.42 | 6.12 | 47.16 | 101.24 | 85.61 | 6.48 | |
| 2800.00 | 2788.23 | 17.55 | 123.78 | 2732.17 | 10.04 | 6.41 | 47.84 | 106.17 | 89.58 | 6.40 | |
| 2900.00 | 2888.10 | 17.55 | 123.78 | 2827.39 | 10.66 | 6.69 | 48.45 | 111.12 | 93.56 | 6.33 | |

5D Anti-Collision Report

| Secondary Well: Goetzel 33N-30B-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
|--|-------------------|------------|-----------|----------------|--------------------|--------------------|-------------------------|---------------|---------------|------|------|
| Pri MD (US ft) | Sec MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Risk |
| 3000.00 | 2987.97 | 17.55 | 123.78 | 2922.61 | 11.29 | 6.99 | 49.02 | 116.07 | 97.54 | 6.26 | |
| 3100.00 | 3087.84 | 17.55 | 123.78 | 3017.83 | 11.92 | 7.28 | 49.54 | 121.04 | 101.53 | 6.20 | |
| 3200.00 | 3187.71 | 17.55 | 123.78 | 3113.05 | 12.55 | 7.57 | 50.02 | 126.02 | 105.51 | 6.14 | |
| 3300.00 | 3287.58 | 17.55 | 123.78 | 3208.27 | 13.18 | 7.87 | 50.46 | 131.01 | 109.48 | 6.09 | |
| 3400.00 | 3387.45 | 17.55 | 123.78 | 3303.49 | 13.81 | 8.17 | 50.87 | 136.00 | 113.45 | 6.03 | |
| 3500.00 | 3487.32 | 17.55 | 123.78 | 3398.72 | 14.44 | 8.46 | 51.25 | 141.00 | 117.43 | 5.98 | |
| 3600.00 | 3587.19 | 17.55 | 123.78 | 3493.94 | 15.08 | 8.76 | 51.60 | 146.01 | 121.42 | 5.94 | |
| 3700.00 | 3687.06 | 17.55 | 123.78 | 3589.16 | 15.72 | 9.06 | 51.93 | 151.02 | 125.40 | 5.90 | |
| 3800.00 | 3786.93 | 17.55 | 123.78 | 3684.38 | 16.35 | 9.36 | 52.24 | 156.03 | 129.39 | 5.86 | |
| 3900.00 | 3886.81 | 17.55 | 123.78 | 3779.60 | 16.99 | 9.66 | 52.53 | 161.05 | 133.37 | 5.82 | |
| 4000.00 | 3986.68 | 17.55 | 123.78 | 3874.82 | 17.63 | 9.96 | 52.80 | 166.08 | 137.36 | 5.78 | |
| 4100.00 | 4086.55 | 17.55 | 123.78 | 3970.04 | 18.27 | 10.26 | 53.06 | 171.10 | 141.35 | 5.75 | |
| 4200.00 | 4186.42 | 17.55 | 123.78 | 4065.26 | 18.91 | 10.57 | 53.30 | 176.13 | 145.33 | 5.72 | |
| 4300.00 | 4286.29 | 17.55 | 123.78 | 4160.48 | 19.55 | 10.87 | 53.53 | 181.17 | 149.31 | 5.69 | |
| 4400.00 | 4386.16 | 17.55 | 123.78 | 4255.70 | 20.19 | 11.17 | 53.75 | 186.20 | 153.29 | 5.66 | |
| 4500.00 | 4486.03 | 17.55 | 123.78 | 4350.92 | 20.83 | 11.48 | 53.95 | 191.24 | 157.28 | 5.63 | |
| 4600.00 | 4585.90 | 17.55 | 123.78 | 4446.15 | 21.47 | 11.78 | 54.15 | 196.28 | 161.26 | 5.60 | |
| 4700.00 | 4685.77 | 17.55 | 123.78 | 4541.37 | 22.12 | 12.08 | 54.33 | 201.33 | 165.25 | 5.58 | |
| 4800.00 | 4785.64 | 17.55 | 123.78 | 4636.59 | 22.76 | 12.39 | 54.51 | 206.37 | 169.23 | 5.56 | |
| 4900.00 | 4885.51 | 17.55 | 123.78 | 4731.81 | 23.40 | 12.69 | 54.67 | 211.42 | 173.22 | 5.53 | |
| 5000.00 | 4985.38 | 17.55 | 123.78 | 4827.03 | 24.05 | 13.00 | 54.83 | 216.47 | 177.21 | 5.51 | |
| 5100.00 | 5085.25 | 17.55 | 123.78 | 4922.25 | 24.69 | 13.30 | 54.99 | 221.52 | 181.20 | 5.49 | |
| 5200.00 | 5185.12 | 17.55 | 123.78 | 5017.47 | 25.33 | 13.61 | 55.13 | 226.57 | 185.19 | 5.48 | |
| 5300.00 | 5285.00 | 17.55 | 123.78 | 5112.69 | 25.98 | 13.91 | 55.27 | 231.62 | 189.18 | 5.46 | |
| 5400.00 | 5384.87 | 17.55 | 123.78 | 5207.91 | 26.62 | 14.22 | 55.40 | 236.68 | 193.17 | 5.44 | |
| 5500.00 | 5484.74 | 17.55 | 123.78 | 5303.13 | 27.26 | 14.52 | 55.53 | 241.73 | 197.16 | 5.42 | |
| 5600.00 | 5584.61 | 17.55 | 123.78 | 5398.35 | 27.91 | 14.83 | 55.65 | 246.79 | 201.15 | 5.41 | |
| 5700.00 | 5684.48 | 17.55 | 123.78 | 5493.58 | 28.55 | 15.14 | 55.77 | 251.85 | 205.14 | 5.39 | |
| 5800.00 | 5784.35 | 17.55 | 123.78 | 5588.80 | 29.20 | 15.44 | 55.88 | 256.90 | 209.14 | 5.38 | |
| 5900.00 | 5884.22 | 17.55 | 123.78 | 5684.02 | 29.84 | 15.75 | 55.99 | 261.96 | 213.13 | 5.36 | |
| 6000.00 | 5984.09 | 17.55 | 123.78 | 5779.24 | 30.49 | 16.06 | 56.09 | 267.02 | 217.13 | 5.35 | |
| 6100.00 | 6083.96 | 17.55 | 123.78 | 5874.46 | 31.13 | 16.36 | 56.20 | 272.09 | 221.12 | 5.34 | |
| 6200.00 | 6183.83 | 17.55 | 123.78 | 5969.68 | 31.78 | 16.67 | 56.29 | 277.15 | 225.12 | 5.33 | |
| 6300.00 | 6284.43 | 16.08 | 127.95 | 6065.69 | 32.39 | 16.98 | 56.47 | 282.18 | 229.06 | 5.31 | |
| 6400.00 | 6386.20 | 11.27 | 156.47 | 6164.65 | 32.60 | 17.15 | 58.41 | 286.64 | 231.75 | 5.22 | |
| 6500.00 | 6484.99 | 11.18 | 197.92 | 6261.70 | 32.42 | 17.09 | 38.57 | 291.48 | 234.76 | 5.14 | |
| 6600.00 | 6581.54 | 15.56 | 226.06 | 6355.71 | 31.94 | 16.81 | 350.15 | 297.08 | 239.22 | 5.13 | |
| 6700.00 | 6676.06 | 21.71 | 240.06 | 6445.28 | 31.24 | 16.30 | 316.70 | 303.20 | 244.78 | 5.19 | |
| 6800.00 | 6768.78 | 28.39 | 247.76 | 6529.25 | 30.41 | 15.58 | 305.63 | 309.57 | 251.19 | 5.30 | |
| 6900.00 | 6859.92 | 35.22 | 252.60 | 6606.67 | 29.54 | 14.66 | 301.87 | 315.91 | 258.09 | 5.46 | |
| 7000.00 | 6949.66 | 42.09 | 255.99 | 6676.72 | 28.72 | 13.59 | 300.69 | 321.92 | 265.08 | 5.66 | |
| 7100.00 | 7038.24 | 48.93 | 258.54 | 6738.76 | 28.03 | 12.41 | 300.55 | 327.36 | 271.75 | 5.89 | |
| 7200.00 | 7125.82 | 55.75 | 260.59 | 6792.24 | 27.53 | 11.23 | 300.81 | 331.99 | 277.60 | 6.10 | |
| 7300.00 | 7212.61 | 62.54 | 262.31 | 6836.73 | 27.28 | 10.19 | 301.20 | 335.61 | 282.32 | 6.30 | |
| 7400.00 | 7298.78 | 69.29 | 263.82 | 6871.88 | 27.30 | 9.50 | 301.56 | 338.08 | 285.65 | 6.45 | |
| 7500.00 | 7384.51 | 76.02 | 265.20 | 6897.42 | 27.61 | 9.38 | 301.81 | 339.27 | 287.19 | 6.51 | |
| 7600.00 | 7469.97 | 82.74 | 266.49 | 6913.16 | 28.17 | 9.91 | 301.91 | 339.12 | 286.89 | 6.49 | |
| 7700.00 | 7555.32 | 89.45 | 267.75 | 6918.97 | 28.92 | 11.02 | 301.83 | 337.61 | 284.67 | 6.38 | |
| 7800.00 | 7654.10 | 90.00 | 267.85 | 6919.00 | 29.93 | 11.58 | 302.01 | 335.86 | 281.24 | 6.15 | |
| 7900.00 | 7754.08 | 90.00 | 267.85 | 6919.00 | 31.14 | 12.09 | 302.19 | 334.14 | 277.50 | 5.90 | |
| 8000.00 | 7854.06 | 90.00 | 267.85 | 6919.00 | 32.54 | 12.63 | 302.38 | 332.42 | 273.30 | 5.62 | |
| 8100.00 | 7954.04 | 90.00 | 267.85 | 6919.00 | 34.11 | 13.19 | 302.57 | 330.70 | 268.93 | 5.35 | |
| 8200.00 | 8054.02 | 90.00 | 267.85 | 6919.00 | 35.83 | 13.77 | 302.76 | 328.99 | 264.30 | 5.09 | |
| 8300.00 | 8154.00 | 90.00 | 267.85 | 6919.00 | 37.68 | 14.37 | 302.95 | 327.28 | 259.47 | 4.83 | |
| 8400.00 | 8253.98 | 90.00 | 267.85 | 6919.00 | 39.64 | 14.98 | 303.15 | 325.57 | 254.53 | 4.58 | |
| 8500.00 | 8353.96 | 90.00 | 267.85 | 6919.00 | 41.70 | 15.60 | 303.35 | 323.87 | 249.48 | 4.35 | |
| 8600.00 | 8453.94 | 90.00 | 267.85 | 6919.00 | 43.84 | 16.23 | 303.54 | 322.17 | 244.31 | 4.14 | |
| 8700.00 | 8553.92 | 90.00 | 267.85 | 6919.00 | 46.05 | 16.87 | 303.75 | 320.47 | 239.04 | 3.94 | |

5D Anti-Collision Report

| Secondary Well: Goetzel 33N-30B-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
|--|-------------------|------------|-----------|----------------|--------------------|--------------------|-------------------------|---------------|---------------|------|---------|
| Pri MD (US ft) | Sec MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Risk |
| 8800.00 | 8653.89 | 90.00 | 267.85 | 6919.00 | 48.33 | 17.52 | 303.95 | 318.78 | 233.68 | 3.75 | |
| 8900.00 | 8753.87 | 90.00 | 267.85 | 6919.00 | 50.65 | 18.17 | 304.15 | 317.09 | 228.25 | 3.57 | |
| 9000.00 | 8853.85 | 90.00 | 267.85 | 6919.00 | 53.03 | 18.83 | 304.36 | 315.41 | 222.76 | 3.40 | |
| 9100.00 | 8953.83 | 90.00 | 267.85 | 6919.00 | 55.44 | 19.50 | 304.57 | 313.73 | 217.23 | 3.25 | |
| 9200.00 | 9053.81 | 90.00 | 267.85 | 6919.00 | 57.89 | 20.17 | 304.78 | 312.06 | 211.65 | 3.11 | |
| 9300.00 | 9153.79 | 90.00 | 267.85 | 6919.00 | 60.36 | 20.84 | 305.00 | 310.39 | 206.06 | 2.98 | |
| 9400.00 | 9253.77 | 90.00 | 267.85 | 6919.00 | 62.87 | 21.52 | 305.22 | 308.72 | 200.46 | 2.85 | |
| 9500.00 | 9353.75 | 90.00 | 267.85 | 6919.00 | 65.40 | 22.20 | 305.43 | 307.06 | 194.85 | 2.74 | |
| 9600.00 | 9453.73 | 90.00 | 267.85 | 6919.00 | 67.95 | 22.89 | 305.66 | 305.40 | 189.24 | 2.63 | |
| 9700.00 | 9553.71 | 90.00 | 267.85 | 6919.00 | 70.52 | 23.58 | 305.88 | 303.75 | 183.65 | 2.53 | |
| 9800.00 | 9653.69 | 90.00 | 267.85 | 6919.00 | 73.11 | 24.27 | 306.11 | 302.10 | 178.07 | 2.44 | SF(Lo) |
| 9900.00 | 9753.67 | 90.00 | 267.85 | 6919.00 | 75.71 | 24.96 | 306.33 | 300.46 | 172.52 | 2.35 | SF(Lo) |
| 10000.00 | 9853.65 | 90.00 | 267.85 | 6919.00 | 78.33 | 25.65 | 306.57 | 298.82 | 166.98 | 2.27 | SF(Lo) |
| 10100.00 | 9953.63 | 90.00 | 267.85 | 6919.00 | 80.96 | 26.35 | 306.80 | 297.19 | 161.47 | 2.19 | SF(Lo) |
| 10200.00 | 10053.60 | 90.00 | 267.85 | 6919.00 | 83.60 | 27.05 | 307.04 | 295.56 | 155.99 | 2.12 | SF(Lo) |
| 10300.00 | 10153.58 | 90.00 | 267.85 | 6919.00 | 86.25 | 27.75 | 307.28 | 293.94 | 150.47 | 2.05 | SF(Lo) |
| 10400.00 | 10253.56 | 90.00 | 267.85 | 6919.00 | 88.91 | 28.45 | 307.52 | 292.32 | 144.98 | 1.98 | SF(Lo) |
| 10500.00 | 10353.54 | 90.00 | 267.85 | 6919.00 | 91.58 | 29.15 | 307.76 | 290.71 | 139.52 | 1.92 | SF(Lo) |
| 10600.00 | 10453.52 | 90.00 | 267.85 | 6919.00 | 94.26 | 29.86 | 308.01 | 289.10 | 134.09 | 1.86 | SF(Lo) |
| 10700.00 | 10553.50 | 90.00 | 267.85 | 6919.00 | 96.94 | 30.56 | 308.26 | 287.50 | 128.66 | 1.81 | SF(Lo) |
| 10800.00 | 10653.48 | 90.00 | 267.85 | 6919.00 | 99.63 | 31.27 | 308.51 | 285.91 | 123.22 | 1.76 | SF(Lo) |
| 10900.00 | 10753.46 | 90.00 | 267.85 | 6919.00 | 102.33 | 31.98 | 308.77 | 284.32 | 117.82 | 1.71 | SF(Lo) |
| 11000.00 | 10853.44 | 90.00 | 267.85 | 6919.00 | 105.03 | 32.69 | 309.02 | 282.73 | 112.45 | 1.66 | SF(Lo) |
| 11100.00 | 10953.42 | 90.00 | 267.85 | 6919.00 | 107.74 | 33.40 | 309.29 | 281.15 | 107.13 | 1.62 | SF(Lo) |
| 11200.00 | 11053.40 | 90.00 | 267.85 | 6919.00 | 110.45 | 34.11 | 309.55 | 279.58 | 101.84 | 1.57 | SF(Lo) |
| 11300.00 | 11153.38 | 90.00 | 267.85 | 6919.00 | 113.17 | 34.82 | 309.82 | 278.01 | 96.60 | 1.53 | SF(Lo) |
| 11400.00 | 11253.36 | 90.00 | 267.85 | 6919.00 | 115.89 | 35.53 | 310.09 | 276.45 | 91.40 | 1.49 | SF(Med) |
| 11500.00 | 11353.34 | 90.00 | 267.85 | 6919.00 | 118.61 | 36.25 | 310.36 | 274.90 | 86.24 | 1.46 | SF(Med) |
| 11600.00 | 11453.31 | 90.00 | 267.85 | 6919.00 | 121.34 | 36.96 | 310.64 | 273.35 | 81.13 | 1.42 | SF(Med) |
| 11700.00 | 11553.29 | 90.00 | 267.85 | 6919.00 | 124.07 | 37.68 | 310.92 | 271.81 | 76.07 | 1.39 | SF(Med) |
| 11800.00 | 11653.27 | 90.00 | 267.85 | 6919.00 | 126.81 | 38.39 | 311.20 | 270.27 | 71.05 | 1.36 | SF(Med) |
| 11900.00 | 11753.25 | 90.00 | 267.85 | 6919.00 | 129.54 | 39.11 | 311.48 | 268.74 | 66.09 | 1.33 | SF(Med) |
| 12000.00 | 11853.23 | 90.00 | 267.85 | 6919.00 | 132.28 | 39.83 | 311.77 | 267.22 | 61.18 | 1.30 | SF(Med) |
| 12100.00 | 11953.21 | 90.00 | 267.85 | 6919.00 | 135.03 | 40.54 | 312.07 | 265.71 | 56.31 | 1.27 | SF(Med) |
| 12200.00 | 12053.19 | 90.00 | 267.85 | 6919.00 | 137.77 | 41.26 | 312.36 | 264.20 | 51.51 | 1.24 | SF(Med) |
| 12300.00 | 12153.17 | 90.00 | 267.85 | 6919.00 | 140.52 | 41.98 | 312.66 | 262.70 | 46.76 | 1.22 | SF(Med) |
| 12400.00 | 12253.15 | 90.00 | 267.85 | 6919.00 | 143.27 | 42.70 | 312.96 | 261.20 | 42.06 | 1.19 | SF(Med) |
| 12500.00 | 12353.13 | 90.00 | 267.85 | 6919.00 | 146.02 | 43.42 | 313.27 | 259.72 | 37.43 | 1.17 | SF(Med) |
| 12600.00 | 12453.11 | 90.00 | 267.85 | 6919.00 | 148.78 | 44.14 | 313.58 | 258.24 | 32.78 | 1.15 | SF(Med) |
| 12700.00 | 12553.09 | 90.00 | 267.85 | 6919.00 | 151.53 | 44.86 | 313.89 | 256.77 | 28.16 | 1.12 | SF(Med) |
| 12800.00 | 12653.07 | 90.00 | 267.85 | 6919.00 | 154.29 | 45.58 | 314.21 | 255.30 | 23.60 | 1.10 | SF(Med) |
| 12900.00 | 12753.04 | 90.00 | 267.85 | 6919.00 | 157.05 | 46.30 | 314.53 | 253.85 | 19.10 | 1.08 | SF(Med) |
| 13000.00 | 12853.02 | 90.00 | 267.85 | 6919.00 | 159.81 | 47.02 | 314.85 | 252.40 | 14.67 | 1.06 | SF(Med) |
| 13100.00 | 12953.00 | 90.00 | 267.85 | 6919.00 | 162.57 | 47.75 | 315.18 | 250.96 | 10.30 | 1.04 | SF(Med) |
| 13200.00 | 13052.98 | 90.00 | 267.85 | 6919.00 | 165.33 | 48.47 | 315.51 | 249.53 | 6.00 | 1.02 | SF(Med) |
| 13300.00 | 13152.96 | 90.00 | 267.85 | 6919.00 | 168.10 | 49.19 | 315.85 | 248.11 | 1.76 | 1.01 | SF(Med) |
| 13400.00 | 13252.94 | 90.00 | 267.85 | 6919.00 | 170.86 | 49.91 | 316.19 | 246.69 | -2.41 | 0.99 | SF(Hi) |
| 13500.00 | 13352.92 | 90.00 | 267.85 | 6919.00 | 173.63 | 50.64 | 316.53 | 245.29 | -6.51 | 0.97 | SF(Hi) |
| 13600.00 | 13452.90 | 90.00 | 267.85 | 6919.00 | 176.40 | 51.36 | 316.88 | 243.89 | -10.53 | 0.96 | SF(Hi) |
| 13700.00 | 13552.88 | 90.00 | 267.85 | 6919.00 | 179.17 | 52.08 | 317.23 | 242.50 | -14.48 | 0.94 | SF(Hi) |
| 13800.00 | 13652.86 | 90.00 | 267.85 | 6919.00 | 181.94 | 52.81 | 317.58 | 241.13 | -18.36 | 0.93 | SF(Hi) |
| 13900.00 | 13752.84 | 90.00 | 267.85 | 6919.00 | 184.71 | 53.53 | 317.94 | 239.76 | -22.15 | 0.92 | SF(Hi) |
| 14000.00 | 13852.82 | 90.00 | 267.85 | 6919.00 | 187.48 | 54.26 | 318.31 | 238.40 | -25.87 | 0.90 | SF(Hi) |
| 14100.00 | 13952.80 | 90.00 | 267.85 | 6919.00 | 190.25 | 54.98 | 318.67 | 237.05 | -29.50 | 0.89 | SF(Hi) |
| 14200.00 | 14052.78 | 90.00 | 267.85 | 6919.00 | 193.03 | 55.71 | 319.05 | 235.71 | -33.05 | 0.88 | SF(Hi) |
| 14300.00 | 14152.75 | 90.00 | 267.85 | 6919.00 | 195.80 | 56.43 | 319.42 | 234.38 | -36.52 | 0.87 | SF(Hi) |
| 14400.00 | 14252.73 | 90.00 | 267.85 | 6919.00 | 198.58 | 57.16 | 319.80 | 233.06 | -39.89 | 0.85 | SF(Hi) |
| 14500.00 | 14352.71 | 90.00 | 267.85 | 6919.00 | 201.35 | 57.88 | 320.19 | 231.75 | -43.18 | 0.84 | SF(Hi) |

5D Anti-Collision Report

| Secondary Well: Goetzel 33N-30B-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
|--|-------------------|------------|-----------|----------------|--------------------|--------------------|-------------------------|---------------|---------------|-------|---------|
| Pri MD (US ft) | Sec MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Risk |
| 14600.00 | 14452.69 | 90.00 | 267.85 | 6919.00 | 204.13 | 58.61 | 320.57 | 230.45 | -46.37 | 0.83 | SF(Hi) |
| 14700.00 | 14552.67 | 90.00 | 267.85 | 6919.00 | 206.91 | 59.33 | 320.97 | 229.17 | -49.47 | 0.82 | SF(Hi) |
| 14800.00 | 14652.65 | 90.00 | 267.85 | 6919.00 | 209.68 | 60.06 | 321.37 | 227.89 | -52.48 | 0.81 | SF(Hi) |
| 14900.00 | 14752.63 | 90.00 | 267.85 | 6919.00 | 212.46 | 60.79 | 321.77 | 226.62 | -55.38 | 0.80 | SF(Hi) |
| 15000.00 | 14852.61 | 90.00 | 267.85 | 6919.00 | 215.24 | 61.51 | 322.17 | 225.37 | -58.19 | 0.79 | SF(Hi) |
| 15100.00 | 14952.59 | 90.00 | 267.85 | 6919.00 | 218.02 | 62.24 | 322.59 | 224.13 | -60.89 | 0.79 | SF(Hi) |
| 15200.00 | 15052.57 | 90.00 | 267.85 | 6919.00 | 220.80 | 62.97 | 323.00 | 222.89 | -63.49 | 0.78 | SF(Hi) |
| 15300.00 | 15152.55 | 90.00 | 267.85 | 6919.00 | 223.58 | 63.69 | 323.42 | 221.67 | -65.97 | 0.77 | SF(Hi) |
| 15400.00 | 15252.53 | 90.00 | 267.85 | 6919.00 | 226.37 | 64.42 | 323.85 | 220.47 | -68.35 | 0.76 | SF(Hi) |
| 15500.00 | 15352.51 | 90.00 | 267.85 | 6919.00 | 229.15 | 65.15 | 324.28 | 219.27 | -70.62 | 0.76 | SF(Hi) |
| 15600.00 | 15452.49 | 90.00 | 267.85 | 6919.00 | 231.93 | 65.88 | 324.71 | 218.09 | -72.78 | 0.75 | SF(Hi) |
| 15600.60 | 15453.09 | 90.00 | 267.85 | 6919.00 | 231.95 | 65.88 | 324.71 | 218.08 | -72.79 | 0.75 | SF(Hi) |
| Secondary Well: Goetzel 13N-30C-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
| Pri MD (US ft) | Sec MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Risk |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 179.95 | 40.07 | 39.34 | 54.65 | CC (Lo) |
| 100.00 | 100.00 | 0.00 | 0.00 | 100.00 | 0.11 | 0.11 | 179.95 | 40.07 | 39.12 | 42.01 | CC (Lo) |
| 200.00 | 200.00 | 0.00 | 0.00 | 200.00 | 0.34 | 0.34 | 179.95 | 40.07 | 38.67 | 28.55 | CC (Lo) |
| 300.00 | 300.00 | 0.00 | 0.00 | 300.00 | 0.56 | 0.56 | 179.95 | 40.07 | 38.22 | 21.63 | CC (Lo) |
| 400.00 | 400.00 | 0.00 | 0.00 | 400.00 | 0.79 | 0.79 | 179.95 | 40.07 | 37.77 | 17.40 | CC (Lo) |
| 500.00 | 500.00 | 0.00 | 0.00 | 500.00 | 1.01 | 1.01 | 179.95 | 40.07 | 37.32 | 14.56 | CC (Lo) |
| 600.00 | 600.00 | 0.00 | 0.00 | 600.00 | 1.24 | 1.24 | 179.95 | 40.07 | 36.87 | 12.52 | CC (Lo) |
| 700.00 | 700.00 | 0.00 | 0.00 | 700.00 | 1.46 | 1.46 | 179.95 | 40.07 | 36.42 | 10.98 | CC (Lo) |
| 800.00 | 800.00 | 0.00 | 0.00 | 800.00 | 1.69 | 1.69 | 179.95 | 40.07 | 35.97 | 9.77 | CC (Lo) |
| 900.00 | 899.58 | 0.99 | 127.01 | 899.57 | 1.90 | 1.90 | 179.46 | 40.34 | 35.80 | 8.90 | CC (Lo) |
| 1000.00 | 998.61 | 2.97 | 127.01 | 998.55 | 2.08 | 2.08 | 175.80 | 42.53 | 37.60 | 8.62 | CC (Lo) |
| 1100.00 | 1097.29 | 4.95 | 127.01 | 1096.99 | 2.28 | 2.27 | 169.57 | 47.37 | 42.02 | 8.84 | CC (Lo) |
| 1200.00 | 1195.44 | 6.91 | 127.01 | 1194.60 | 2.50 | 2.46 | 47.44 | 55.14 | 49.37 | 9.56 | CC (Lo) |
| 1300.00 | 1293.19 | 8.86 | 127.01 | 1291.43 | 2.75 | 2.66 | 42.52 | 64.18 | 58.01 | 10.41 | CC (Lo) |
| 1400.00 | 1390.60 | 10.81 | 127.01 | 1387.40 | 3.03 | 2.86 | 39.31 | 73.89 | 67.32 | 11.25 | |
| 1500.00 | 1487.65 | 12.75 | 127.01 | 1482.40 | 3.37 | 3.06 | 37.26 | 84.04 | 77.06 | 12.04 | |
| 1600.00 | 1584.35 | 14.69 | 127.01 | 1576.34 | 3.75 | 3.28 | 36.02 | 94.53 | 87.10 | 12.73 | |
| 1700.00 | 1680.70 | 16.61 | 127.01 | 1669.11 | 4.20 | 3.50 | 35.36 | 105.28 | 97.37 | 13.31 | |
| 1800.00 | 1778.83 | 17.39 | 127.01 | 1762.84 | 4.71 | 3.74 | 35.24 | 115.70 | 107.27 | 13.72 | |
| 1900.00 | 1878.50 | 17.39 | 127.01 | 1857.95 | 5.25 | 4.00 | 36.04 | 123.55 | 114.51 | 13.67 | |
| 2000.00 | 1978.29 | 17.39 | 127.01 | 1953.18 | 5.82 | 4.27 | 37.59 | 129.02 | 119.30 | 13.27 | |
| 2100.00 | 2078.09 | 17.39 | 127.01 | 2048.42 | 6.40 | 4.54 | 39.17 | 134.25 | 123.78 | 12.82 | |
| 2200.00 | 2177.89 | 17.39 | 127.01 | 2143.66 | 7.00 | 4.82 | 40.62 | 139.58 | 128.30 | 12.38 | |
| 2300.00 | 2277.68 | 17.39 | 127.01 | 2238.90 | 7.60 | 5.10 | 41.96 | 144.99 | 132.88 | 11.98 | |
| 2400.00 | 2377.48 | 17.39 | 127.01 | 2334.14 | 8.20 | 5.38 | 43.21 | 150.47 | 137.52 | 11.62 | |
| 2500.00 | 2477.28 | 17.39 | 127.01 | 2429.37 | 8.81 | 5.67 | 44.37 | 156.02 | 142.19 | 11.28 | |
| 2600.00 | 2577.08 | 17.39 | 127.01 | 2524.61 | 9.43 | 5.96 | 45.45 | 161.63 | 146.88 | 10.96 | |
| 2700.00 | 2676.88 | 17.39 | 127.01 | 2619.85 | 10.05 | 6.25 | 46.46 | 167.29 | 151.59 | 10.65 | |
| 2800.00 | 2776.67 | 17.39 | 127.01 | 2715.09 | 10.67 | 6.54 | 47.40 | 173.00 | 156.31 | 10.37 | |
| 2900.00 | 2876.47 | 17.39 | 127.01 | 2810.33 | 11.29 | 6.84 | 48.28 | 178.76 | 161.07 | 10.11 | |
| 3000.00 | 2976.27 | 17.39 | 127.01 | 2905.57 | 11.92 | 7.13 | 49.11 | 184.55 | 165.86 | 9.87 | |
| 3100.00 | 3076.07 | 17.39 | 127.01 | 3000.81 | 12.55 | 7.43 | 49.89 | 190.38 | 170.67 | 9.66 | |
| 3200.00 | 3175.86 | 17.39 | 127.01 | 3096.05 | 13.17 | 7.72 | 50.61 | 196.24 | 175.52 | 9.47 | |
| 3300.00 | 3275.66 | 17.39 | 127.01 | 3191.28 | 13.80 | 8.02 | 51.30 | 202.13 | 180.39 | 9.30 | |
| 3400.00 | 3375.46 | 17.39 | 127.01 | 3286.52 | 14.43 | 8.32 | 51.95 | 208.05 | 185.26 | 9.13 | |
| 3500.00 | 3475.26 | 17.39 | 127.01 | 3381.76 | 15.06 | 8.62 | 52.56 | 214.00 | 190.15 | 8.97 | |
| 3600.00 | 3575.06 | 17.39 | 127.01 | 3477.00 | 15.70 | 8.92 | 53.14 | 219.96 | 195.05 | 8.83 | |
| 3700.00 | 3674.85 | 17.39 | 127.01 | 3572.24 | 16.33 | 9.22 | 53.69 | 225.95 | 199.97 | 8.70 | |
| 3800.00 | 3774.65 | 17.39 | 127.01 | 3667.48 | 16.96 | 9.52 | 54.21 | 231.96 | 204.88 | 8.57 | |
| 3900.00 | 3874.45 | 17.39 | 127.01 | 3762.72 | 17.60 | 9.82 | 54.70 | 237.99 | 209.81 | 8.45 | |
| 4000.00 | 3974.25 | 17.39 | 127.01 | 3857.96 | 18.23 | 10.12 | 55.17 | 244.03 | 214.76 | 8.34 | |
| 4100.00 | 4074.04 | 17.39 | 127.01 | 3953.19 | 18.87 | 10.43 | 55.62 | 250.09 | 219.72 | 8.23 | |

5D Anti-Collision Report

| Secondary Well: Goetzel 13N-30C-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
|--|-------------------|------------|-----------|----------------|--------------------|--------------------|-------------------------|---------------|---------------|------|------|
| Pri MD (US ft) | Sec MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Risk |
| 4200.00 | 4173.84 | 17.39 | 127.01 | 4048.43 | 19.50 | 10.73 | 56.04 | 256.16 | 224.69 | 8.14 | |
| 4300.00 | 4273.64 | 17.39 | 127.01 | 4143.67 | 20.14 | 11.03 | 56.45 | 262.25 | 229.67 | 8.05 | |
| 4400.00 | 4373.44 | 17.39 | 127.01 | 4238.91 | 20.77 | 11.34 | 56.84 | 268.35 | 234.66 | 7.97 | |
| 4500.00 | 4473.24 | 17.39 | 127.01 | 4334.15 | 21.41 | 11.64 | 57.21 | 274.46 | 239.66 | 7.89 | |
| 4600.00 | 4573.03 | 17.39 | 127.01 | 4429.39 | 22.05 | 11.94 | 57.56 | 280.58 | 244.67 | 7.81 | |
| 4700.00 | 4672.83 | 17.39 | 127.01 | 4524.63 | 22.68 | 12.25 | 57.90 | 286.71 | 249.70 | 7.75 | |
| 4800.00 | 4772.63 | 17.39 | 127.01 | 4619.87 | 23.32 | 12.55 | 58.22 | 292.85 | 254.72 | 7.68 | |
| 4900.00 | 4872.43 | 17.39 | 127.01 | 4715.10 | 23.96 | 12.86 | 58.54 | 299.00 | 259.76 | 7.62 | |
| 5000.00 | 4972.22 | 17.39 | 127.01 | 4810.34 | 24.59 | 13.16 | 58.83 | 305.16 | 264.81 | 7.56 | |
| 5100.00 | 5072.02 | 17.39 | 127.01 | 4905.58 | 25.23 | 13.47 | 59.12 | 311.33 | 269.86 | 7.51 | |
| 5200.00 | 5171.82 | 17.39 | 127.01 | 5000.82 | 25.87 | 13.77 | 59.40 | 317.50 | 274.92 | 7.46 | |
| 5300.00 | 5271.62 | 17.39 | 127.01 | 5096.06 | 26.51 | 14.08 | 59.66 | 323.69 | 279.98 | 7.41 | |
| 5400.00 | 5371.42 | 17.39 | 127.01 | 5191.30 | 27.14 | 14.38 | 59.92 | 329.87 | 285.06 | 7.36 | |
| 5500.00 | 5471.21 | 17.39 | 127.01 | 5286.54 | 27.78 | 14.69 | 60.16 | 336.07 | 290.13 | 7.32 | |
| 5600.00 | 5571.01 | 17.39 | 127.01 | 5381.78 | 28.42 | 14.99 | 60.40 | 342.27 | 295.22 | 7.27 | |
| 5700.00 | 5670.81 | 17.39 | 127.01 | 5477.01 | 29.06 | 15.30 | 60.63 | 348.47 | 300.30 | 7.23 | |
| 5800.00 | 5770.61 | 17.39 | 127.01 | 5572.25 | 29.70 | 15.60 | 60.85 | 354.69 | 305.37 | 7.19 | |
| 5900.00 | 5870.40 | 17.39 | 127.01 | 5667.49 | 30.34 | 15.91 | 61.06 | 360.90 | 310.46 | 7.15 | |
| 6000.00 | 5970.20 | 17.39 | 127.01 | 5762.73 | 30.98 | 16.22 | 61.27 | 367.12 | 315.54 | 7.12 | |
| 6100.00 | 6070.00 | 17.39 | 127.01 | 5857.97 | 31.61 | 16.52 | 61.47 | 373.35 | 320.63 | 7.08 | |
| 6200.00 | 6169.80 | 17.39 | 127.01 | 5953.21 | 32.25 | 16.83 | 61.66 | 379.58 | 325.73 | 7.05 | |
| 6300.00 | 6269.60 | 17.39 | 127.01 | 6048.45 | 32.89 | 17.13 | 61.85 | 385.81 | 330.82 | 7.02 | |
| 6400.00 | 6368.53 | 15.64 | 133.16 | 6143.00 | 33.47 | 17.44 | 61.87 | 392.09 | 335.97 | 6.99 | |
| 6500.00 | 6465.11 | 11.90 | 162.12 | 6236.90 | 33.62 | 17.59 | 39.49 | 398.69 | 341.72 | 7.00 | |
| 6600.00 | 6561.05 | 12.48 | 198.98 | 6330.81 | 33.36 | 17.56 | 348.63 | 405.51 | 348.12 | 7.07 | |
| 6700.00 | 6656.43 | 16.89 | 224.01 | 6423.15 | 32.76 | 17.31 | 312.89 | 412.37 | 354.94 | 7.18 | |
| 6800.00 | 6751.37 | 22.98 | 237.49 | 6512.40 | 31.90 | 16.86 | 299.71 | 419.14 | 362.00 | 7.34 | |
| 6900.00 | 6845.96 | 29.72 | 245.32 | 6597.14 | 30.86 | 16.18 | 294.03 | 425.66 | 369.07 | 7.52 | |
| 7000.00 | 6940.30 | 36.74 | 250.40 | 6676.02 | 29.76 | 15.27 | 291.13 | 431.79 | 375.85 | 7.72 | |
| 7100.00 | 7034.49 | 43.90 | 254.03 | 6747.80 | 28.71 | 14.13 | 289.47 | 437.42 | 382.16 | 7.92 | |
| 7200.00 | 7128.64 | 51.15 | 256.81 | 6811.33 | 27.84 | 12.82 | 288.41 | 442.42 | 387.78 | 8.10 | |
| 7300.00 | 7222.83 | 58.46 | 259.08 | 6865.59 | 27.26 | 11.47 | 287.67 | 446.72 | 392.48 | 8.24 | |
| 7400.00 | 7317.16 | 65.81 | 261.02 | 6909.66 | 27.01 | 10.28 | 287.10 | 450.22 | 396.05 | 8.31 | |
| 7500.00 | 7411.73 | 73.20 | 262.75 | 6942.76 | 27.14 | 9.60 | 286.61 | 452.86 | 398.33 | 8.30 | |
| 7600.00 | 7506.61 | 80.62 | 264.35 | 6964.23 | 27.62 | 9.75 | 286.16 | 454.62 | 399.20 | 8.20 | |
| 7700.00 | 7601.88 | 88.09 | 265.89 | 6973.59 | 28.41 | 10.81 | 285.72 | 455.46 | 398.66 | 8.02 | |
| 7800.00 | 7700.76 | 90.00 | 266.28 | 6974.00 | 29.38 | 11.56 | 285.65 | 456.10 | 397.41 | 7.77 | |
| 7900.00 | 7800.76 | 90.00 | 266.28 | 6974.00 | 30.55 | 12.06 | 285.62 | 456.76 | 395.71 | 7.48 | |
| 8000.00 | 7900.75 | 90.00 | 266.28 | 6974.00 | 31.92 | 12.60 | 285.60 | 457.43 | 393.66 | 7.17 | |
| 8100.00 | 8000.75 | 90.00 | 266.28 | 6974.00 | 33.47 | 13.16 | 285.58 | 458.10 | 391.22 | 6.85 | |
| 8200.00 | 8100.75 | 90.00 | 266.28 | 6974.00 | 35.17 | 13.74 | 285.55 | 458.77 | 388.64 | 6.54 | |
| 8300.00 | 8200.75 | 90.00 | 266.28 | 6974.00 | 37.00 | 14.34 | 285.53 | 459.43 | 385.73 | 6.23 | |
| 8400.00 | 8300.74 | 90.00 | 266.28 | 6974.00 | 38.94 | 14.95 | 285.51 | 460.10 | 382.70 | 5.94 | |
| 8500.00 | 8400.74 | 90.00 | 266.28 | 6974.00 | 40.98 | 15.58 | 285.48 | 460.77 | 379.39 | 5.66 | |
| 8600.00 | 8500.74 | 90.00 | 266.28 | 6974.00 | 43.11 | 16.21 | 285.46 | 461.44 | 375.85 | 5.39 | |
| 8700.00 | 8600.74 | 90.00 | 266.28 | 6974.00 | 45.31 | 16.86 | 285.44 | 462.10 | 372.21 | 5.14 | |
| 8800.00 | 8700.73 | 90.00 | 266.28 | 6974.00 | 47.57 | 17.51 | 285.41 | 462.77 | 368.47 | 4.91 | |
| 8900.00 | 8800.73 | 90.00 | 266.28 | 6974.00 | 49.89 | 18.16 | 285.39 | 463.44 | 364.64 | 4.69 | |
| 9000.00 | 8900.73 | 90.00 | 266.28 | 6974.00 | 52.25 | 18.83 | 285.37 | 464.11 | 360.73 | 4.49 | |
| 9100.00 | 9000.73 | 90.00 | 266.28 | 6974.00 | 54.65 | 19.49 | 285.35 | 464.78 | 356.74 | 4.30 | |
| 9200.00 | 9100.72 | 90.00 | 266.28 | 6974.00 | 57.09 | 20.17 | 285.32 | 465.44 | 352.68 | 4.13 | |
| 9300.00 | 9200.72 | 90.00 | 266.28 | 6974.00 | 59.57 | 20.84 | 285.30 | 466.11 | 348.57 | 3.97 | |
| 9400.00 | 9300.72 | 90.00 | 266.28 | 6974.00 | 62.06 | 21.52 | 285.28 | 466.78 | 344.40 | 3.81 | |
| 9500.00 | 9400.72 | 90.00 | 266.28 | 6974.00 | 64.59 | 22.20 | 285.26 | 467.45 | 340.19 | 3.67 | |
| 9600.00 | 9500.71 | 90.00 | 266.28 | 6974.00 | 67.13 | 22.89 | 285.23 | 468.12 | 335.93 | 3.54 | |
| 9700.00 | 9600.71 | 90.00 | 266.28 | 6974.00 | 69.70 | 23.58 | 285.21 | 468.79 | 331.64 | 3.42 | |
| 9800.00 | 9700.71 | 90.00 | 266.28 | 6974.00 | 72.28 | 24.27 | 285.19 | 469.46 | 327.31 | 3.30 | |
| 9900.00 | 9800.71 | 90.00 | 266.28 | 6974.00 | 74.87 | 24.96 | 285.17 | 470.12 | 322.95 | 3.19 | |

5D Anti-Collision Report

| Secondary Well: Goetzel 13N-30C-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
|--|-------------------|------------|-----------|----------------|--------------------|--------------------|-------------------------|---------------|---------------|------|---------|
| Pri MD (US ft) | Sec MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Risk |
| 10000.00 | 9900.70 | 90.00 | 266.28 | 6974.00 | 77.48 | 25.66 | 285.15 | 470.79 | 318.57 | 3.09 | |
| 10100.00 | 10000.70 | 90.00 | 266.28 | 6974.00 | 80.11 | 26.35 | 285.12 | 471.46 | 314.16 | 3.00 | |
| 10200.00 | 10100.70 | 90.00 | 266.28 | 6974.00 | 82.74 | 27.05 | 285.10 | 472.13 | 309.73 | 2.91 | |
| 10300.00 | 10200.70 | 90.00 | 266.28 | 6974.00 | 85.39 | 27.75 | 285.08 | 472.80 | 305.28 | 2.82 | |
| 10400.00 | 10300.70 | 90.00 | 266.28 | 6974.00 | 88.04 | 28.46 | 285.06 | 473.47 | 300.81 | 2.74 | |
| 10500.00 | 10400.69 | 90.00 | 266.28 | 6974.00 | 90.70 | 29.16 | 285.04 | 474.14 | 296.32 | 2.67 | |
| 10600.00 | 10500.69 | 90.00 | 266.28 | 6974.00 | 93.37 | 29.87 | 285.01 | 474.81 | 291.82 | 2.59 | |
| 10700.00 | 10600.69 | 90.00 | 266.28 | 6974.00 | 96.05 | 30.57 | 284.99 | 475.48 | 287.30 | 2.53 | |
| 10800.00 | 10700.69 | 90.00 | 266.28 | 6974.00 | 98.74 | 31.28 | 284.97 | 476.14 | 282.77 | 2.46 | SF(Lo) |
| 10900.00 | 10800.68 | 90.00 | 266.28 | 6974.00 | 101.43 | 31.99 | 284.95 | 476.81 | 278.22 | 2.40 | SF(Lo) |
| 11000.00 | 10900.68 | 90.00 | 266.28 | 6974.00 | 104.12 | 32.70 | 284.93 | 477.48 | 273.67 | 2.34 | SF(Lo) |
| 11100.00 | 11000.68 | 90.00 | 266.28 | 6974.00 | 106.82 | 33.41 | 284.91 | 478.15 | 269.10 | 2.29 | SF(Lo) |
| 11200.00 | 11100.68 | 90.00 | 266.28 | 6974.00 | 109.53 | 34.12 | 284.89 | 478.82 | 264.52 | 2.23 | SF(Lo) |
| 11300.00 | 11200.67 | 90.00 | 266.28 | 6974.00 | 112.24 | 34.83 | 284.86 | 479.49 | 259.94 | 2.18 | SF(Lo) |
| 11400.00 | 11300.67 | 90.00 | 266.28 | 6974.00 | 114.95 | 35.54 | 284.84 | 480.16 | 255.34 | 2.14 | SF(Lo) |
| 11500.00 | 11400.67 | 90.00 | 266.28 | 6974.00 | 117.67 | 36.26 | 284.82 | 480.83 | 250.74 | 2.09 | SF(Lo) |
| 11600.00 | 11500.67 | 90.00 | 266.28 | 6974.00 | 120.39 | 36.97 | 284.80 | 481.50 | 246.13 | 2.05 | SF(Lo) |
| 11700.00 | 11600.66 | 90.00 | 266.28 | 6974.00 | 123.12 | 37.69 | 284.78 | 482.17 | 241.51 | 2.00 | SF(Lo) |
| 11800.00 | 11700.66 | 90.00 | 266.28 | 6974.00 | 125.85 | 38.40 | 284.76 | 482.84 | 236.89 | 1.96 | SF(Lo) |
| 11900.00 | 11800.66 | 90.00 | 266.28 | 6974.00 | 128.58 | 39.12 | 284.74 | 483.51 | 232.25 | 1.92 | SF(Lo) |
| 12000.00 | 11900.66 | 90.00 | 266.28 | 6974.00 | 131.31 | 39.84 | 284.72 | 484.18 | 227.62 | 1.89 | SF(Lo) |
| 12100.00 | 12000.65 | 90.00 | 266.28 | 6974.00 | 134.05 | 40.56 | 284.70 | 484.85 | 222.97 | 1.85 | SF(Lo) |
| 12200.00 | 12100.65 | 90.00 | 266.28 | 6974.00 | 136.79 | 41.27 | 284.68 | 485.52 | 218.32 | 1.82 | SF(Lo) |
| 12300.00 | 12200.65 | 90.00 | 266.28 | 6974.00 | 139.53 | 41.99 | 284.65 | 486.19 | 213.67 | 1.78 | SF(Lo) |
| 12400.00 | 12300.65 | 90.00 | 266.28 | 6974.00 | 142.27 | 42.71 | 284.63 | 486.86 | 209.01 | 1.75 | SF(Lo) |
| 12500.00 | 12400.64 | 90.00 | 266.28 | 6974.00 | 145.02 | 43.43 | 284.61 | 487.53 | 204.35 | 1.72 | SF(Lo) |
| 12600.00 | 12500.64 | 90.00 | 266.28 | 6974.00 | 147.76 | 44.15 | 284.59 | 488.20 | 199.68 | 1.69 | SF(Lo) |
| 12700.00 | 12600.64 | 90.00 | 266.28 | 6974.00 | 150.51 | 44.87 | 284.57 | 488.87 | 195.00 | 1.66 | SF(Lo) |
| 12800.00 | 12700.64 | 90.00 | 266.28 | 6974.00 | 153.26 | 45.59 | 284.55 | 489.54 | 190.33 | 1.64 | SF(Lo) |
| 12900.00 | 12800.64 | 90.00 | 266.28 | 6974.00 | 156.01 | 46.32 | 284.53 | 490.21 | 185.65 | 1.61 | SF(Lo) |
| 13000.00 | 12900.63 | 90.00 | 266.28 | 6974.00 | 158.77 | 47.04 | 284.51 | 490.89 | 180.96 | 1.58 | SF(Lo) |
| 13100.00 | 13000.63 | 90.00 | 266.28 | 6974.00 | 161.52 | 47.76 | 284.49 | 491.56 | 176.27 | 1.56 | SF(Lo) |
| 13200.00 | 13100.63 | 90.00 | 266.28 | 6974.00 | 164.28 | 48.48 | 284.47 | 492.23 | 171.58 | 1.54 | SF(Lo) |
| 13300.00 | 13200.63 | 90.00 | 266.28 | 6974.00 | 167.04 | 49.20 | 284.45 | 492.90 | 166.89 | 1.51 | SF(Lo) |
| 13400.00 | 13300.62 | 90.00 | 266.28 | 6974.00 | 169.80 | 49.93 | 284.43 | 493.57 | 162.19 | 1.49 | SF(Med) |
| 13500.00 | 13400.62 | 90.00 | 266.28 | 6974.00 | 172.56 | 50.65 | 284.41 | 494.24 | 157.48 | 1.47 | SF(Med) |
| 13600.00 | 13500.62 | 90.00 | 266.28 | 6974.00 | 175.32 | 51.37 | 284.39 | 494.91 | 152.78 | 1.45 | SF(Med) |
| 13700.00 | 13600.62 | 90.00 | 266.28 | 6974.00 | 178.08 | 52.10 | 284.37 | 495.58 | 148.07 | 1.43 | SF(Med) |
| 13800.00 | 13700.61 | 90.00 | 266.28 | 6974.00 | 180.84 | 52.82 | 284.35 | 496.25 | 143.36 | 1.41 | SF(Med) |
| 13900.00 | 13800.61 | 90.00 | 266.28 | 6974.00 | 183.61 | 53.55 | 284.33 | 496.92 | 138.65 | 1.39 | SF(Med) |
| 14000.00 | 13900.61 | 90.00 | 266.28 | 6974.00 | 186.37 | 54.27 | 284.31 | 497.60 | 133.93 | 1.37 | SF(Med) |
| 14100.00 | 14000.61 | 90.00 | 266.28 | 6974.00 | 189.14 | 55.00 | 284.29 | 498.27 | 129.21 | 1.35 | SF(Med) |
| 14200.00 | 14100.60 | 90.00 | 266.28 | 6974.00 | 191.91 | 55.72 | 284.27 | 498.94 | 124.49 | 1.33 | SF(Med) |
| 14300.00 | 14200.60 | 90.00 | 266.28 | 6974.00 | 194.67 | 56.45 | 284.25 | 499.61 | 119.77 | 1.32 | SF(Med) |
| 14400.00 | 14300.60 | 90.00 | 266.28 | 6974.00 | 197.44 | 57.17 | 284.23 | 500.28 | 115.05 | 1.30 | SF(Med) |
| 14500.00 | 14400.60 | 90.00 | 266.28 | 6974.00 | 200.21 | 57.90 | 284.21 | 500.95 | 110.32 | 1.28 | SF(Med) |
| 14600.00 | 14500.59 | 90.00 | 266.28 | 6974.00 | 202.98 | 58.62 | 284.19 | 501.62 | 105.59 | 1.27 | SF(Med) |
| 14700.00 | 14600.59 | 90.00 | 266.28 | 6974.00 | 205.75 | 59.35 | 284.17 | 502.30 | 100.86 | 1.25 | SF(Med) |
| 14800.00 | 14700.59 | 90.00 | 266.28 | 6974.00 | 208.53 | 60.08 | 284.16 | 502.97 | 96.12 | 1.24 | SF(Med) |
| 14900.00 | 14800.59 | 90.00 | 266.28 | 6974.00 | 211.30 | 60.80 | 284.14 | 503.64 | 91.39 | 1.22 | SF(Med) |
| 15000.00 | 14900.58 | 90.00 | 266.28 | 6974.00 | 214.07 | 61.53 | 284.12 | 504.31 | 86.65 | 1.21 | SF(Med) |
| 15100.00 | 15000.58 | 90.00 | 266.28 | 6974.00 | 216.84 | 62.25 | 284.10 | 504.98 | 81.91 | 1.19 | SF(Med) |
| 15200.00 | 15100.58 | 90.00 | 266.28 | 6974.00 | 219.62 | 62.98 | 284.08 | 505.66 | 77.17 | 1.18 | SF(Med) |
| 15300.00 | 15200.58 | 90.00 | 266.28 | 6974.00 | 222.39 | 63.71 | 284.06 | 506.33 | 72.42 | 1.17 | SF(Med) |
| 15400.00 | 15286.68 | 90.00 | 266.28 | 6974.00 | 224.78 | 64.33 | 284.04 | 507.19 | 68.08 | 1.16 | SF(Med) |
| 15500.00 | 15286.68 | 90.00 | 266.28 | 6974.00 | 224.78 | 64.33 | 284.04 | 520.29 | 86.71 | 1.20 | SF(Med) |
| 15600.00 | 15286.68 | 90.00 | 266.28 | 6974.00 | 224.78 | 64.33 | 284.04 | 551.51 | 137.24 | 1.33 | SF(Med) |
| 15600.60 | 15286.68 | 90.00 | 266.28 | 6974.00 | 224.78 | 64.33 | 284.04 | 551.75 | 137.62 | 1.33 | SF(Med) |

5D Anti-Collision Report

| Secondary Well: Goetzel 13N-30A-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
|--|-------------------|------------|-----------|----------------|--------------------|--------------------|-------------------------|---------------|---------------|-------|---------|
| Pri MD (US ft) | Sec MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Risk |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 180.08 | 60.11 | 59.38 | 81.97 | CC (Lo) |
| 100.00 | 100.00 | 0.00 | 0.00 | 100.00 | 0.11 | 0.11 | 180.08 | 60.11 | 59.16 | 63.01 | CC (Lo) |
| 200.00 | 200.00 | 0.00 | 0.00 | 200.00 | 0.34 | 0.34 | 180.08 | 60.11 | 58.71 | 42.83 | CC (Lo) |
| 300.00 | 300.00 | 0.00 | 0.00 | 300.00 | 0.56 | 0.56 | 180.08 | 60.11 | 58.26 | 32.44 | CC (Lo) |
| 400.00 | 400.00 | 0.00 | 0.00 | 400.00 | 0.79 | 0.79 | 180.08 | 60.11 | 57.81 | 26.11 | CC (Lo) |
| 500.00 | 500.00 | 0.00 | 0.00 | 500.00 | 1.01 | 1.01 | 180.08 | 60.11 | 57.36 | 21.84 | CC (Lo) |
| 600.00 | 600.00 | 0.00 | 0.00 | 600.00 | 1.24 | 1.24 | 180.08 | 60.11 | 56.91 | 18.77 | CC (Lo) |
| 700.00 | 700.00 | 0.00 | 0.00 | 700.00 | 1.46 | 1.46 | 180.08 | 60.11 | 56.46 | 16.46 | CC (Lo) |
| 800.00 | 799.31 | 0.99 | 131.86 | 799.30 | 1.67 | 1.67 | 179.78 | 60.40 | 56.31 | 14.78 | CC (Lo) |
| 900.00 | 897.80 | 2.96 | 131.86 | 897.74 | 1.86 | 1.85 | 177.48 | 62.76 | 58.27 | 13.98 | CC (Lo) |
| 1000.00 | 995.95 | 4.92 | 131.86 | 995.65 | 2.05 | 2.04 | 173.40 | 67.74 | 62.84 | 13.82 | |
| 1100.00 | 1093.52 | 6.87 | 131.86 | 1092.70 | 2.27 | 2.23 | 168.34 | 75.75 | 70.41 | 14.20 | |
| 1200.00 | 1190.36 | 8.81 | 131.86 | 1188.62 | 2.52 | 2.43 | 47.98 | 86.83 | 81.07 | 15.09 | |
| 1300.00 | 1286.69 | 10.73 | 131.86 | 1283.55 | 2.81 | 2.63 | 44.28 | 99.23 | 93.08 | 16.13 | |
| 1400.00 | 1382.55 | 12.65 | 131.86 | 1377.43 | 3.14 | 2.84 | 41.83 | 112.36 | 105.79 | 17.11 | |
| 1500.00 | 1477.96 | 14.56 | 131.86 | 1470.15 | 3.53 | 3.05 | 40.27 | 126.03 | 119.03 | 18.02 | |
| 1600.00 | 1572.90 | 16.46 | 131.86 | 1561.63 | 3.97 | 3.28 | 39.34 | 140.11 | 132.66 | 18.80 | |
| 1700.00 | 1667.38 | 18.35 | 131.86 | 1651.78 | 4.48 | 3.51 | 38.89 | 154.54 | 146.60 | 19.46 | |
| 1800.00 | 1764.80 | 18.97 | 131.86 | 1743.97 | 5.05 | 3.76 | 38.89 | 168.62 | 160.13 | 19.86 | |
| 1900.00 | 1864.09 | 18.97 | 131.86 | 1837.87 | 5.66 | 4.04 | 39.58 | 180.19 | 171.05 | 19.72 | |
| 2000.00 | 1963.57 | 18.97 | 131.86 | 1931.93 | 6.29 | 4.32 | 40.84 | 189.50 | 179.65 | 19.24 | |
| 2100.00 | 2063.06 | 18.97 | 131.86 | 2026.02 | 6.94 | 4.61 | 42.13 | 198.59 | 187.96 | 18.67 | |
| 2200.00 | 2162.55 | 18.97 | 131.86 | 2120.11 | 7.59 | 4.90 | 43.30 | 207.78 | 196.32 | 18.13 | |
| 2300.00 | 2262.04 | 18.97 | 131.86 | 2214.20 | 8.24 | 5.19 | 44.38 | 217.04 | 204.74 | 17.64 | |
| 2400.00 | 2361.53 | 18.97 | 131.86 | 2308.28 | 8.91 | 5.49 | 45.36 | 226.38 | 213.21 | 17.19 | |
| 2500.00 | 2461.02 | 18.97 | 131.86 | 2402.37 | 9.57 | 5.79 | 46.27 | 235.77 | 221.71 | 16.77 | |
| 2600.00 | 2560.51 | 18.97 | 131.86 | 2496.46 | 10.24 | 6.09 | 47.10 | 245.22 | 230.23 | 16.36 | |
| 2700.00 | 2660.00 | 18.97 | 131.86 | 2590.55 | 10.91 | 6.39 | 47.88 | 254.71 | 238.76 | 15.97 | |
| 2800.00 | 2759.49 | 18.97 | 131.86 | 2684.63 | 11.59 | 6.70 | 48.60 | 264.25 | 247.33 | 15.61 | |
| 2900.00 | 2858.99 | 18.97 | 131.86 | 2778.72 | 12.26 | 7.01 | 49.27 | 273.83 | 255.92 | 15.29 | |
| 3000.00 | 2958.48 | 18.97 | 131.86 | 2872.81 | 12.94 | 7.31 | 49.89 | 283.44 | 264.53 | 14.99 | |
| 3100.00 | 3057.97 | 18.97 | 131.86 | 2966.90 | 13.62 | 7.62 | 50.47 | 293.09 | 273.17 | 14.71 | |
| 3200.00 | 3157.46 | 18.97 | 131.86 | 3060.98 | 14.30 | 7.93 | 51.02 | 302.76 | 281.82 | 14.46 | |
| 3300.00 | 3256.95 | 18.97 | 131.86 | 3155.07 | 14.98 | 8.24 | 51.53 | 312.46 | 290.50 | 14.23 | |
| 3400.00 | 3356.44 | 18.97 | 131.86 | 3249.16 | 15.67 | 8.55 | 52.01 | 322.18 | 299.20 | 14.02 | |
| 3500.00 | 3455.93 | 18.97 | 131.86 | 3343.25 | 16.35 | 8.87 | 52.46 | 331.92 | 307.91 | 13.83 | |
| 3600.00 | 3555.42 | 18.97 | 131.86 | 3437.33 | 17.03 | 9.18 | 52.89 | 341.68 | 316.64 | 13.65 | |
| 3700.00 | 3654.92 | 18.97 | 131.86 | 3531.42 | 17.72 | 9.49 | 53.30 | 351.46 | 325.39 | 13.48 | |
| 3800.00 | 3754.41 | 18.97 | 131.86 | 3625.51 | 18.40 | 9.81 | 53.68 | 361.25 | 334.13 | 13.32 | |
| 3900.00 | 3853.90 | 18.97 | 131.86 | 3719.60 | 19.09 | 10.12 | 54.04 | 371.06 | 342.87 | 13.16 | |
| 4000.00 | 3953.39 | 18.97 | 131.86 | 3813.68 | 19.77 | 10.43 | 54.38 | 380.89 | 351.61 | 13.01 | |
| 4100.00 | 4052.88 | 18.97 | 131.86 | 3907.77 | 20.46 | 10.75 | 54.71 | 390.72 | 360.37 | 12.87 | |
| 4200.00 | 4152.37 | 18.97 | 131.86 | 4001.86 | 21.15 | 11.06 | 55.02 | 400.57 | 369.13 | 12.74 | |
| 4300.00 | 4251.86 | 18.97 | 131.86 | 4095.95 | 21.83 | 11.38 | 55.31 | 410.43 | 377.90 | 12.62 | |
| 4400.00 | 4351.35 | 18.97 | 131.86 | 4190.03 | 22.52 | 11.70 | 55.59 | 420.30 | 386.68 | 12.50 | |
| 4500.00 | 4450.84 | 18.97 | 131.86 | 4284.12 | 23.21 | 12.01 | 55.86 | 430.18 | 395.47 | 12.40 | |
| 4600.00 | 4550.34 | 18.97 | 131.86 | 4378.21 | 23.89 | 12.33 | 56.11 | 440.07 | 404.27 | 12.29 | |
| 4700.00 | 4649.83 | 18.97 | 131.86 | 4472.30 | 24.58 | 12.64 | 56.36 | 449.96 | 413.07 | 12.20 | |
| 4800.00 | 4749.32 | 18.97 | 131.86 | 4566.38 | 25.27 | 12.96 | 56.59 | 459.87 | 421.89 | 12.11 | |
| 4900.00 | 4848.81 | 18.97 | 131.86 | 4660.47 | 25.96 | 13.28 | 56.82 | 469.78 | 430.70 | 12.02 | |
| 5000.00 | 4948.30 | 18.97 | 131.86 | 4754.56 | 26.65 | 13.60 | 57.03 | 479.70 | 439.52 | 11.94 | |
| 5100.00 | 5047.79 | 18.97 | 131.86 | 4848.64 | 27.33 | 13.91 | 57.24 | 489.62 | 448.35 | 11.86 | |
| 5200.00 | 5147.28 | 18.97 | 131.86 | 4942.73 | 28.02 | 14.23 | 57.44 | 499.55 | 457.19 | 11.79 | |
| 5300.00 | 5246.77 | 18.97 | 131.86 | 5036.82 | 28.71 | 14.55 | 57.63 | 509.49 | 466.02 | 11.72 | |
| 5400.00 | 5346.26 | 18.97 | 131.86 | 5130.91 | 29.40 | 14.87 | 57.81 | 519.43 | 474.87 | 11.65 | |
| 5500.00 | 5445.76 | 18.97 | 131.86 | 5224.99 | 30.09 | 15.18 | 57.99 | 529.38 | 483.71 | 11.59 | |
| 5600.00 | 5545.25 | 18.97 | 131.86 | 5319.08 | 30.78 | 15.50 | 58.16 | 539.33 | 492.56 | 11.53 | |
| 5700.00 | 5644.74 | 18.97 | 131.86 | 5413.17 | 31.47 | 15.82 | 58.32 | 549.29 | 501.42 | 11.47 | |

5D Anti-Collision Report

| Secondary Well: Goetzel 13N-30A-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
|--|-------------------|------------|-----------|----------------|--------------------|--------------------|-------------------------|---------------|---------------|-------|------|
| Pri MD (US ft) | Sec MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Risk |
| 5800.00 | 5744.23 | 18.97 | 131.86 | 5507.26 | 32.16 | 16.14 | 58.48 | 559.25 | 510.28 | 11.42 | |
| 5900.00 | 5843.72 | 18.97 | 131.86 | 5601.34 | 32.84 | 16.46 | 58.63 | 569.21 | 519.14 | 11.37 | |
| 6000.00 | 5943.21 | 18.97 | 131.86 | 5695.43 | 33.53 | 16.77 | 58.78 | 579.18 | 528.00 | 11.32 | |
| 6100.00 | 6042.70 | 18.97 | 131.86 | 5789.52 | 34.22 | 17.09 | 58.92 | 589.15 | 536.87 | 11.27 | |
| 6200.00 | 6142.19 | 18.97 | 131.86 | 5883.61 | 34.91 | 17.41 | 59.06 | 599.13 | 545.74 | 11.22 | |
| 6300.00 | 6241.55 | 16.93 | 139.90 | 5977.80 | 35.51 | 17.72 | 59.29 | 609.11 | 554.63 | 11.18 | |
| 6400.00 | 6338.89 | 13.88 | 167.24 | 6071.75 | 35.63 | 17.90 | 60.29 | 619.30 | 563.45 | 11.09 | |
| 6500.00 | 6432.95 | 14.66 | 197.96 | 6163.04 | 35.26 | 17.89 | 39.24 | 630.24 | 573.28 | 11.07 | |
| 6600.00 | 6524.83 | 18.54 | 220.08 | 6251.16 | 34.53 | 17.70 | 349.68 | 641.81 | 584.23 | 11.15 | |
| 6700.00 | 6614.80 | 23.93 | 233.38 | 6335.04 | 33.53 | 17.34 | 315.17 | 653.66 | 595.91 | 11.32 | |
| 6800.00 | 6703.17 | 29.94 | 241.66 | 6413.81 | 32.34 | 16.78 | 303.14 | 665.45 | 607.90 | 11.56 | |
| 6900.00 | 6790.18 | 36.20 | 247.24 | 6486.70 | 31.07 | 16.03 | 298.52 | 676.83 | 619.79 | 11.87 | |
| 7000.00 | 6876.07 | 42.57 | 251.31 | 6553.07 | 29.84 | 15.07 | 296.58 | 687.51 | 631.18 | 12.21 | |
| 7100.00 | 6961.08 | 48.99 | 254.46 | 6612.33 | 28.77 | 13.92 | 295.77 | 697.18 | 641.67 | 12.56 | |
| 7200.00 | 7045.40 | 55.43 | 257.02 | 6663.98 | 27.96 | 12.62 | 295.46 | 705.61 | 650.92 | 12.90 | |
| 7300.00 | 7129.23 | 61.87 | 259.21 | 6707.57 | 27.46 | 11.31 | 295.35 | 712.59 | 658.56 | 13.19 | |
| 7400.00 | 7212.75 | 68.32 | 261.13 | 6742.73 | 27.29 | 10.21 | 295.29 | 717.96 | 664.35 | 13.39 | |
| 7500.00 | 7296.13 | 74.78 | 262.89 | 6769.11 | 27.45 | 9.61 | 295.19 | 721.60 | 667.87 | 13.43 | |
| 7600.00 | 7379.52 | 81.25 | 264.55 | 6786.42 | 27.94 | 9.81 | 295.01 | 723.45 | 669.13 | 13.32 | |
| 7700.00 | 7463.10 | 87.74 | 266.15 | 6794.43 | 28.66 | 10.83 | 294.72 | 723.48 | 668.13 | 13.07 | |
| 7800.00 | 7557.50 | 90.00 | 266.70 | 6795.00 | 29.61 | 11.68 | 294.68 | 723.32 | 666.27 | 12.68 | |
| 7900.00 | 7657.50 | 90.00 | 266.70 | 6795.00 | 30.76 | 12.20 | 294.68 | 723.30 | 664.09 | 12.22 | |
| 8000.00 | 7757.50 | 90.00 | 266.70 | 6795.00 | 32.12 | 12.76 | 294.68 | 723.27 | 661.47 | 11.70 | |
| 8100.00 | 7857.50 | 90.00 | 266.70 | 6795.00 | 33.64 | 13.34 | 294.68 | 723.25 | 658.41 | 11.15 | |
| 8200.00 | 7957.50 | 90.00 | 266.70 | 6795.00 | 35.32 | 13.94 | 294.68 | 723.23 | 655.24 | 10.64 | |
| 8300.00 | 8057.50 | 90.00 | 266.70 | 6795.00 | 37.14 | 14.56 | 294.68 | 723.20 | 651.92 | 10.14 | |
| 8400.00 | 8157.50 | 90.00 | 266.70 | 6795.00 | 39.07 | 15.19 | 294.68 | 723.18 | 648.23 | 9.65 | |
| 8500.00 | 8257.50 | 90.00 | 266.70 | 6795.00 | 41.10 | 15.84 | 294.68 | 723.16 | 644.52 | 9.20 | |
| 8600.00 | 8357.50 | 90.00 | 266.70 | 6795.00 | 43.21 | 16.49 | 294.68 | 723.13 | 640.71 | 8.77 | |
| 8700.00 | 8457.50 | 90.00 | 266.70 | 6795.00 | 45.40 | 17.15 | 294.69 | 723.11 | 636.60 | 8.36 | |
| 8800.00 | 8557.50 | 90.00 | 266.70 | 6795.00 | 47.65 | 17.81 | 294.69 | 723.09 | 632.42 | 7.98 | |
| 8900.00 | 8657.50 | 90.00 | 266.70 | 6795.00 | 49.96 | 18.48 | 294.69 | 723.06 | 628.16 | 7.62 | |
| 9000.00 | 8757.50 | 90.00 | 266.70 | 6795.00 | 52.31 | 19.16 | 294.69 | 723.04 | 623.82 | 7.29 | |
| 9100.00 | 8857.50 | 90.00 | 266.70 | 6795.00 | 54.71 | 19.84 | 294.69 | 723.02 | 619.41 | 6.98 | |
| 9200.00 | 8957.50 | 90.00 | 266.70 | 6795.00 | 57.14 | 20.52 | 294.69 | 722.99 | 614.95 | 6.69 | |
| 9300.00 | 9057.50 | 90.00 | 266.70 | 6795.00 | 59.61 | 21.21 | 294.69 | 722.97 | 610.43 | 6.42 | |
| 9400.00 | 9157.50 | 90.00 | 266.70 | 6795.00 | 62.10 | 21.90 | 294.69 | 722.95 | 605.87 | 6.18 | |
| 9500.00 | 9257.50 | 90.00 | 266.70 | 6795.00 | 64.62 | 22.59 | 294.69 | 722.92 | 601.26 | 5.94 | |
| 9600.00 | 9357.50 | 90.00 | 266.70 | 6795.00 | 67.16 | 23.28 | 294.69 | 722.90 | 596.57 | 5.72 | |
| 9700.00 | 9457.50 | 90.00 | 266.70 | 6795.00 | 69.72 | 23.98 | 294.69 | 722.88 | 591.86 | 5.52 | |
| 9800.00 | 9557.50 | 90.00 | 266.70 | 6795.00 | 72.30 | 24.67 | 294.70 | 722.85 | 587.12 | 5.33 | |
| 9900.00 | 9657.50 | 90.00 | 266.70 | 6795.00 | 74.90 | 25.37 | 294.70 | 722.83 | 582.37 | 5.15 | |
| 10000.00 | 9757.50 | 90.00 | 266.70 | 6795.00 | 77.51 | 26.07 | 294.70 | 722.81 | 577.59 | 4.98 | |
| 10100.00 | 9857.50 | 90.00 | 266.70 | 6795.00 | 80.13 | 26.78 | 294.70 | 722.78 | 572.81 | 4.82 | |
| 10200.00 | 9957.50 | 90.00 | 266.70 | 6795.00 | 82.76 | 27.48 | 294.70 | 722.76 | 568.02 | 4.67 | |
| 10300.00 | 10057.50 | 90.00 | 266.70 | 6795.00 | 85.40 | 28.19 | 294.70 | 722.74 | 563.22 | 4.53 | |
| 10400.00 | 10157.50 | 90.00 | 266.70 | 6795.00 | 88.06 | 28.89 | 294.70 | 722.72 | 558.42 | 4.40 | |
| 10500.00 | 10257.50 | 90.00 | 266.70 | 6795.00 | 90.72 | 29.60 | 294.70 | 722.69 | 553.62 | 4.27 | |
| 10600.00 | 10357.50 | 90.00 | 266.70 | 6795.00 | 93.39 | 30.31 | 294.70 | 722.67 | 548.74 | 4.15 | |
| 10700.00 | 10457.50 | 90.00 | 266.70 | 6795.00 | 96.07 | 31.02 | 294.70 | 722.65 | 543.84 | 4.04 | |
| 10800.00 | 10557.50 | 90.00 | 266.70 | 6795.00 | 98.75 | 31.73 | 294.70 | 722.62 | 538.88 | 3.93 | |
| 10900.00 | 10657.50 | 90.00 | 266.70 | 6795.00 | 101.44 | 32.44 | 294.70 | 722.60 | 533.88 | 3.83 | |
| 11000.00 | 10757.50 | 90.00 | 266.70 | 6795.00 | 104.14 | 33.15 | 294.71 | 722.58 | 528.89 | 3.73 | |
| 11100.00 | 10857.50 | 90.00 | 266.70 | 6795.00 | 106.84 | 33.87 | 294.71 | 722.55 | 523.89 | 3.64 | |
| 11200.00 | 10957.50 | 90.00 | 266.70 | 6795.00 | 109.54 | 34.58 | 294.71 | 722.53 | 518.89 | 3.55 | |
| 11300.00 | 11057.50 | 90.00 | 266.70 | 6795.00 | 112.25 | 35.30 | 294.71 | 722.51 | 513.88 | 3.46 | |
| 11400.00 | 11157.50 | 90.00 | 266.70 | 6795.00 | 114.97 | 36.01 | 294.71 | 722.48 | 508.88 | 3.38 | |
| 11500.00 | 11257.50 | 90.00 | 266.70 | 6795.00 | 117.69 | 36.73 | 294.71 | 722.46 | 503.87 | 3.31 | |

5D Anti-Collision Report

| Secondary Well: Goetzel 13N-30A-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
|--|-------------------|------------|-----------|----------------|--------------------|--------------------|-------------------------|---------------|---------------|--------|--------|
| Pri MD (US ft) | Sec MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Risk |
| 11600.00 | 11357.50 | 90.00 | 266.70 | 6795.00 | 120.41 | 37.44 | 294.71 | 722.44 | 498.85 | 3.23 | |
| 11700.00 | 11457.50 | 90.00 | 266.70 | 6795.00 | 123.14 | 38.16 | 294.71 | 722.41 | 493.84 | 3.16 | |
| 11800.00 | 11557.50 | 90.00 | 266.70 | 6795.00 | 125.87 | 38.88 | 294.71 | 722.39 | 488.82 | 3.09 | |
| 11900.00 | 11657.50 | 90.00 | 266.70 | 6795.00 | 128.60 | 39.60 | 294.71 | 722.37 | 483.80 | 3.03 | |
| 12000.00 | 11757.50 | 90.00 | 266.70 | 6795.00 | 131.33 | 40.32 | 294.71 | 722.34 | 478.77 | 2.97 | |
| 12100.00 | 11857.50 | 90.00 | 266.70 | 6795.00 | 134.07 | 41.04 | 294.71 | 722.32 | 473.74 | 2.91 | |
| 12200.00 | 11957.50 | 90.00 | 266.70 | 6795.00 | 136.81 | 41.76 | 294.72 | 722.30 | 468.71 | 2.85 | |
| 12300.00 | 12057.50 | 90.00 | 266.70 | 6795.00 | 139.55 | 42.48 | 294.72 | 722.27 | 463.67 | 2.79 | |
| 12400.00 | 12157.50 | 90.00 | 266.70 | 6795.00 | 142.30 | 43.20 | 294.72 | 722.25 | 458.63 | 2.74 | |
| 12500.00 | 12257.50 | 90.00 | 266.70 | 6795.00 | 145.04 | 43.92 | 294.72 | 722.23 | 453.59 | 2.69 | |
| 12600.00 | 12357.50 | 90.00 | 266.70 | 6795.00 | 147.79 | 44.64 | 294.72 | 722.20 | 448.55 | 2.64 | |
| 12700.00 | 12457.50 | 90.00 | 266.70 | 6795.00 | 150.54 | 45.36 | 294.72 | 722.18 | 443.50 | 2.59 | |
| 12800.00 | 12557.50 | 90.00 | 266.70 | 6795.00 | 153.29 | 46.08 | 294.72 | 722.16 | 438.45 | 2.55 | |
| 12900.00 | 12657.50 | 90.00 | 266.70 | 6795.00 | 156.05 | 46.81 | 294.72 | 722.14 | 433.40 | 2.50 | |
| 13000.00 | 12757.50 | 90.00 | 266.70 | 6795.00 | 158.80 | 47.53 | 294.72 | 722.11 | 428.35 | 2.46 | SF(Lo) |
| 13100.00 | 12857.50 | 90.00 | 266.70 | 6795.00 | 161.56 | 48.25 | 294.72 | 722.09 | 423.29 | 2.42 | SF(Lo) |
| 13200.00 | 12957.50 | 90.00 | 266.70 | 6795.00 | 164.32 | 48.98 | 294.72 | 722.07 | 418.23 | 2.38 | SF(Lo) |
| 13300.00 | 13057.50 | 90.00 | 266.70 | 6795.00 | 167.07 | 49.70 | 294.72 | 722.04 | 413.17 | 2.34 | SF(Lo) |
| 13400.00 | 13157.50 | 90.00 | 266.70 | 6795.00 | 169.84 | 50.42 | 294.73 | 722.02 | 408.11 | 2.30 | SF(Lo) |
| 13500.00 | 13257.50 | 90.00 | 266.70 | 6795.00 | 172.60 | 51.15 | 294.73 | 722.00 | 403.05 | 2.26 | SF(Lo) |
| 13600.00 | 13357.50 | 90.00 | 266.70 | 6795.00 | 175.36 | 51.87 | 294.73 | 721.97 | 397.98 | 2.23 | SF(Lo) |
| 13700.00 | 13457.50 | 90.00 | 266.70 | 6795.00 | 178.12 | 52.60 | 294.73 | 721.95 | 392.91 | 2.19 | SF(Lo) |
| 13800.00 | 13557.50 | 90.00 | 266.70 | 6795.00 | 180.89 | 53.32 | 294.73 | 721.93 | 387.84 | 2.16 | SF(Lo) |
| 13900.00 | 13657.50 | 90.00 | 266.70 | 6795.00 | 183.66 | 54.05 | 294.73 | 721.90 | 382.77 | 2.13 | SF(Lo) |
| 14000.00 | 13757.50 | 90.00 | 266.70 | 6795.00 | 186.42 | 54.77 | 294.73 | 721.88 | 377.70 | 2.10 | SF(Lo) |
| 14100.00 | 13857.50 | 90.00 | 266.70 | 6795.00 | 189.19 | 55.50 | 294.73 | 721.86 | 372.62 | 2.07 | SF(Lo) |
| 14200.00 | 13957.50 | 90.00 | 266.70 | 6795.00 | 191.96 | 56.22 | 294.73 | 721.83 | 367.55 | 2.04 | SF(Lo) |
| 14300.00 | 14057.50 | 90.00 | 266.70 | 6795.00 | 194.73 | 56.95 | 294.73 | 721.81 | 362.47 | 2.01 | SF(Lo) |
| 14400.00 | 14157.50 | 90.00 | 266.70 | 6795.00 | 197.50 | 57.68 | 294.73 | 721.79 | 357.39 | 1.98 | SF(Lo) |
| 14500.00 | 14257.50 | 90.00 | 266.70 | 6795.00 | 200.27 | 58.40 | 294.73 | 721.76 | 352.31 | 1.95 | SF(Lo) |
| 14600.00 | 14357.50 | 90.00 | 266.70 | 6795.00 | 203.04 | 59.13 | 294.74 | 721.74 | 347.23 | 1.93 | SF(Lo) |
| 14700.00 | 14457.50 | 90.00 | 266.70 | 6795.00 | 205.81 | 59.86 | 294.74 | 721.72 | 342.15 | 1.90 | SF(Lo) |
| 14800.00 | 14557.50 | 90.00 | 266.70 | 6795.00 | 208.59 | 60.58 | 294.74 | 721.69 | 337.06 | 1.88 | SF(Lo) |
| 14900.00 | 14657.50 | 90.00 | 266.70 | 6795.00 | 211.36 | 61.31 | 294.74 | 721.67 | 331.98 | 1.85 | SF(Lo) |
| 15000.00 | 14757.50 | 90.00 | 266.70 | 6795.00 | 214.14 | 62.04 | 294.74 | 721.65 | 326.89 | 1.83 | SF(Lo) |
| 15100.00 | 14857.50 | 90.00 | 266.70 | 6795.00 | 216.91 | 62.76 | 294.74 | 721.62 | 321.81 | 1.80 | SF(Lo) |
| 15200.00 | 14957.50 | 90.00 | 266.70 | 6795.00 | 219.69 | 63.49 | 294.74 | 721.60 | 316.72 | 1.78 | SF(Lo) |
| 15300.00 | 15057.50 | 90.00 | 266.70 | 6795.00 | 222.46 | 64.22 | 294.74 | 721.58 | 311.63 | 1.76 | SF(Lo) |
| 15400.00 | 15136.85 | 90.00 | 266.70 | 6795.00 | 224.67 | 64.80 | 294.74 | 721.55 | 307.03 | 1.74 | SF(Lo) |
| 15500.00 | 15136.85 | 90.00 | 266.70 | 6795.00 | 224.67 | 64.80 | 294.74 | 731.55 | 317.36 | 1.77 | SF(Lo) |
| 15600.00 | 15136.85 | 90.00 | 266.70 | 6795.00 | 224.67 | 64.80 | 294.74 | 754.49 | 348.16 | 1.86 | SF(Lo) |
| 15600.60 | 15136.85 | 90.00 | 266.70 | 6795.00 | 224.67 | 64.80 | 294.74 | 754.67 | 348.40 | 1.86 | SF(Lo) |
| Secondary Well: Goetzel 13C-30-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
| Pri MD (US ft) | Sec MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Risk |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 179.95 | 80.15 | 79.41 | 109.30 | |
| 100.00 | 100.00 | 0.00 | 0.00 | 100.00 | 0.11 | 0.11 | 179.95 | 80.15 | 79.19 | 84.02 | |
| 200.00 | 200.00 | 0.00 | 0.00 | 200.00 | 0.34 | 0.34 | 179.95 | 80.15 | 78.74 | 57.11 | |
| 300.00 | 300.00 | 0.00 | 0.00 | 300.00 | 0.56 | 0.56 | 179.95 | 80.15 | 78.30 | 43.25 | |
| 400.00 | 400.00 | 0.00 | 0.00 | 400.00 | 0.79 | 0.79 | 179.95 | 80.15 | 77.85 | 34.81 | |
| 500.00 | 500.00 | 0.00 | 0.00 | 500.00 | 1.01 | 1.01 | 179.95 | 80.15 | 77.40 | 29.12 | |
| 600.00 | 600.00 | 0.00 | 0.00 | 600.00 | 1.24 | 1.24 | 179.95 | 80.15 | 76.95 | 25.03 | |
| 700.00 | 697.92 | 1.96 | 138.18 | 697.90 | 1.43 | 1.43 | 179.16 | 81.43 | 77.81 | 22.51 | |
| 800.00 | 795.61 | 3.91 | 138.18 | 795.46 | 1.62 | 1.62 | 176.96 | 85.36 | 81.34 | 21.20 | |
| 900.00 | 892.84 | 5.86 | 138.18 | 892.33 | 1.83 | 1.80 | 173.72 | 92.16 | 87.71 | 20.71 | |
| 1000.00 | 989.41 | 7.79 | 138.18 | 988.21 | 2.06 | 2.00 | 169.95 | 102.08 | 97.20 | 20.90 | |
| 1100.00 | 1085.09 | 9.70 | 138.18 | 1082.77 | 2.34 | 2.20 | 166.10 | 115.32 | 109.99 | 21.67 | |

5D Anti-Collision Report

| Secondary Well: Goetzel 13C-30-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
|---|-------------------|------------|-----------|----------------|--------------------|--------------------|-------------------------|---------------|---------------|-------|------|
| Pri MD (US ft) | Sec MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Risk |
| 1200.00 | 1179.77 | 11.60 | 138.18 | 1175.82 | 2.65 | 2.41 | 47.22 | 131.68 | 125.93 | 22.88 | |
| 1300.00 | 1273.77 | 13.48 | 138.18 | 1267.57 | 3.02 | 2.62 | 44.62 | 149.32 | 143.17 | 24.28 | |
| 1400.00 | 1367.16 | 15.34 | 138.18 | 1358.02 | 3.43 | 2.84 | 42.94 | 167.67 | 161.10 | 25.50 | |
| 1500.00 | 1459.92 | 17.20 | 138.18 | 1447.07 | 3.91 | 3.07 | 41.91 | 186.58 | 179.56 | 26.60 | |
| 1600.00 | 1552.06 | 19.04 | 138.18 | 1534.63 | 4.43 | 3.30 | 41.37 | 205.94 | 198.47 | 27.57 | |
| 1700.00 | 1648.78 | 19.47 | 138.18 | 1625.84 | 5.04 | 3.57 | 41.29 | 224.84 | 216.82 | 28.03 | |
| 1800.00 | 1747.38 | 19.47 | 138.18 | 1718.80 | 5.67 | 3.85 | 41.76 | 241.26 | 232.64 | 27.97 | |
| 1900.00 | 1846.28 | 19.47 | 138.18 | 1812.05 | 6.33 | 4.14 | 42.70 | 255.17 | 245.87 | 27.44 | |
| 2000.00 | 1945.35 | 19.47 | 138.18 | 1905.46 | 6.99 | 4.43 | 44.09 | 267.00 | 256.97 | 26.62 | |
| 2100.00 | 2044.44 | 19.47 | 138.18 | 1998.88 | 7.66 | 4.73 | 45.49 | 278.70 | 267.88 | 25.76 | |
| 2200.00 | 2143.53 | 19.47 | 138.18 | 2092.31 | 8.33 | 5.03 | 46.78 | 290.55 | 278.88 | 24.90 | |
| 2300.00 | 2242.62 | 19.47 | 138.18 | 2185.73 | 9.01 | 5.34 | 47.97 | 302.54 | 289.98 | 24.08 | |
| 2400.00 | 2341.71 | 19.47 | 138.18 | 2279.15 | 9.70 | 5.64 | 49.07 | 314.65 | 301.16 | 23.32 | |
| 2500.00 | 2440.80 | 19.47 | 138.18 | 2372.58 | 10.38 | 5.95 | 50.09 | 326.86 | 312.43 | 22.65 | |
| 2600.00 | 2539.89 | 19.47 | 138.18 | 2466.00 | 11.07 | 6.26 | 51.03 | 339.16 | 323.78 | 22.05 | |
| 2700.00 | 2638.98 | 19.47 | 138.18 | 2559.42 | 11.76 | 6.57 | 51.91 | 351.56 | 335.20 | 21.49 | |
| 2800.00 | 2738.07 | 19.47 | 138.18 | 2652.85 | 12.45 | 6.89 | 52.73 | 364.02 | 346.66 | 20.96 | |
| 2900.00 | 2837.16 | 19.47 | 138.18 | 2746.27 | 13.14 | 7.20 | 53.49 | 376.56 | 358.18 | 20.49 | |
| 3000.00 | 2936.25 | 19.47 | 138.18 | 2839.69 | 13.83 | 7.51 | 54.21 | 389.15 | 369.75 | 20.06 | |
| 3100.00 | 3035.34 | 19.47 | 138.18 | 2933.12 | 14.52 | 7.83 | 54.88 | 401.81 | 381.38 | 19.67 | |
| 3200.00 | 3134.43 | 19.47 | 138.18 | 3026.54 | 15.22 | 8.14 | 55.51 | 414.51 | 393.02 | 19.29 | |
| 3300.00 | 3233.52 | 19.47 | 138.18 | 3119.96 | 15.91 | 8.46 | 56.10 | 427.26 | 404.70 | 18.94 | |
| 3400.00 | 3332.61 | 19.47 | 138.18 | 3213.39 | 16.61 | 8.78 | 56.65 | 440.05 | 416.42 | 18.62 | |
| 3500.00 | 3431.70 | 19.47 | 138.18 | 3306.81 | 17.30 | 9.09 | 57.18 | 452.88 | 428.17 | 18.33 | |
| 3600.00 | 3530.79 | 19.47 | 138.18 | 3400.23 | 18.00 | 9.41 | 57.68 | 465.75 | 439.96 | 18.06 | |
| 3700.00 | 3629.88 | 19.47 | 138.18 | 3493.65 | 18.70 | 9.73 | 58.15 | 478.65 | 451.77 | 17.81 | |
| 3800.00 | 3728.97 | 19.47 | 138.18 | 3587.08 | 19.39 | 10.05 | 58.59 | 491.58 | 463.62 | 17.58 | |
| 3900.00 | 3828.06 | 19.47 | 138.18 | 3680.50 | 20.09 | 10.36 | 59.01 | 504.54 | 475.47 | 17.36 | |
| 4000.00 | 3927.15 | 19.47 | 138.18 | 3773.92 | 20.79 | 10.68 | 59.42 | 517.52 | 487.34 | 17.15 | |
| 4100.00 | 4026.24 | 19.47 | 138.18 | 3867.35 | 21.49 | 11.00 | 59.80 | 530.53 | 499.23 | 16.95 | |
| 4200.00 | 4125.33 | 19.47 | 138.18 | 3960.77 | 22.18 | 11.32 | 60.16 | 543.56 | 511.14 | 16.77 | |
| 4300.00 | 4224.42 | 19.47 | 138.18 | 4054.19 | 22.88 | 11.64 | 60.51 | 556.60 | 523.07 | 16.60 | |
| 4400.00 | 4323.51 | 19.47 | 138.18 | 4147.62 | 23.58 | 11.96 | 60.84 | 569.67 | 535.02 | 16.44 | |
| 4500.00 | 4422.60 | 19.47 | 138.18 | 4241.04 | 24.28 | 12.28 | 61.15 | 582.76 | 546.99 | 16.29 | |
| 4600.00 | 4521.69 | 19.47 | 138.18 | 4334.46 | 24.98 | 12.60 | 61.46 | 595.86 | 558.96 | 16.15 | |
| 4700.00 | 4620.78 | 19.47 | 138.18 | 4427.89 | 25.68 | 12.92 | 61.75 | 608.98 | 570.96 | 16.02 | |
| 4800.00 | 4719.87 | 19.47 | 138.18 | 4521.31 | 26.38 | 13.24 | 62.02 | 622.11 | 582.97 | 15.89 | |
| 4900.00 | 4818.96 | 19.47 | 138.18 | 4614.73 | 27.07 | 13.56 | 62.29 | 635.26 | 594.99 | 15.77 | |
| 5000.00 | 4918.05 | 19.47 | 138.18 | 4708.16 | 27.77 | 13.88 | 62.54 | 648.42 | 607.02 | 15.66 | |
| 5100.00 | 5017.14 | 19.47 | 138.18 | 4801.58 | 28.47 | 14.21 | 62.79 | 661.59 | 619.06 | 15.56 | |
| 5200.00 | 5116.23 | 19.47 | 138.18 | 4895.00 | 29.17 | 14.53 | 63.02 | 674.77 | 631.11 | 15.46 | |
| 5300.00 | 5215.32 | 19.47 | 138.18 | 4988.43 | 29.87 | 14.85 | 63.25 | 687.97 | 643.18 | 15.36 | |
| 5400.00 | 5314.41 | 19.47 | 138.18 | 5081.85 | 30.57 | 15.17 | 63.47 | 701.17 | 655.25 | 15.27 | |
| 5500.00 | 5413.50 | 19.47 | 138.18 | 5175.27 | 31.27 | 15.49 | 63.67 | 714.38 | 667.33 | 15.18 | |
| 5600.00 | 5512.59 | 19.47 | 138.18 | 5268.70 | 31.97 | 15.81 | 63.88 | 727.61 | 679.43 | 15.10 | |
| 5700.00 | 5611.68 | 19.47 | 138.18 | 5362.12 | 32.67 | 16.13 | 64.07 | 740.84 | 691.52 | 15.02 | |
| 5800.00 | 5710.77 | 19.47 | 138.18 | 5455.54 | 33.37 | 16.45 | 64.26 | 754.08 | 703.63 | 14.95 | |
| 5900.00 | 5809.86 | 19.47 | 138.18 | 5548.97 | 34.07 | 16.78 | 64.44 | 767.32 | 715.75 | 14.88 | |
| 6000.00 | 5908.95 | 19.47 | 138.18 | 5642.39 | 34.77 | 17.10 | 64.61 | 780.58 | 727.87 | 14.81 | |
| 6100.00 | 6008.04 | 19.47 | 138.18 | 5735.81 | 35.47 | 17.42 | 64.78 | 793.84 | 739.99 | 14.74 | |
| 6200.00 | 6107.13 | 19.47 | 138.18 | 5829.24 | 36.17 | 17.74 | 64.95 | 807.11 | 752.13 | 14.68 | |
| 6300.00 | 6206.22 | 19.47 | 138.18 | 5922.66 | 36.87 | 18.06 | 65.11 | 820.38 | 764.26 | 14.62 | |
| 6400.00 | 6305.31 | 19.47 | 138.18 | 6016.08 | 37.57 | 18.39 | 65.02 | 833.66 | 776.39 | 14.56 | |
| 6500.00 | 6404.30 | 19.47 | 138.18 | 6109.41 | 38.27 | 18.71 | 42.09 | 846.31 | 788.36 | 14.60 | |
| 6600.00 | 6501.79 | 19.47 | 138.18 | 6201.32 | 38.96 | 19.02 | 349.79 | 857.86 | 799.80 | 14.78 | |
| 6700.00 | 6592.85 | 16.98 | 151.23 | 6287.61 | 39.44 | 19.30 | 312.13 | 869.05 | 811.55 | 15.11 | |
| 6800.00 | 6684.44 | 15.34 | 177.13 | 6375.70 | 39.35 | 19.45 | 297.09 | 880.72 | 824.21 | 15.59 | |
| 6900.00 | 6779.84 | 17.07 | 204.03 | 6467.44 | 38.74 | 19.45 | 289.63 | 892.77 | 837.44 | 16.13 | |

5D Anti-Collision Report

| Secondary Well: Goetzel 13C-30-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
|---|-------------------|------------|-----------|----------------|--------------------|--------------------|-------------------------|---------------|---------------|-------|------|
| Pri MD (US ft) | Sec MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Risk |
| 7000.00 | 6879.69 | 21.72 | 223.81 | 6561.70 | 37.59 | 19.27 | 285.04 | 904.99 | 850.76 | 16.69 | |
| 7100.00 | 6984.73 | 28.21 | 236.57 | 6656.94 | 35.93 | 18.84 | 281.78 | 917.12 | 863.95 | 17.25 | |
| 7200.00 | 7095.66 | 35.88 | 245.04 | 6750.94 | 33.87 | 18.06 | 279.24 | 928.82 | 876.39 | 17.72 | |
| 7300.00 | 7213.12 | 44.45 | 251.08 | 6840.66 | 31.64 | 16.80 | 277.15 | 939.66 | 887.62 | 18.06 | |
| 7400.00 | 7337.57 | 53.77 | 255.72 | 6922.06 | 29.69 | 14.88 | 275.40 | 949.17 | 896.91 | 18.17 | |
| 7500.00 | 7469.03 | 63.76 | 259.55 | 6990.16 | 28.50 | 12.40 | 273.93 | 956.81 | 903.52 | 17.95 | |
| 7600.00 | 7606.97 | 74.35 | 262.91 | 7039.41 | 28.33 | 10.37 | 272.76 | 962.08 | 906.91 | 17.44 | |
| 7700.00 | 7750.11 | 85.37 | 266.05 | 7064.58 | 29.18 | 10.80 | 271.93 | 964.49 | 906.75 | 16.70 | |
| 7800.00 | 7868.94 | 90.00 | 267.32 | 7067.00 | 30.29 | 12.17 | 271.78 | 963.78 | 903.58 | 16.01 | |
| 7900.00 | 7968.93 | 90.00 | 267.32 | 7067.00 | 31.39 | 12.69 | 271.79 | 962.67 | 900.09 | 15.38 | |
| 8000.00 | 8068.92 | 90.00 | 267.32 | 7067.00 | 32.68 | 13.25 | 271.79 | 961.56 | 896.30 | 14.73 | |
| 8100.00 | 8168.92 | 90.00 | 267.32 | 7067.00 | 34.15 | 13.84 | 271.79 | 960.45 | 892.20 | 14.07 | |
| 8200.00 | 8268.91 | 90.00 | 267.32 | 7067.00 | 35.77 | 14.45 | 271.79 | 959.34 | 887.60 | 13.37 | |
| 8300.00 | 8368.91 | 90.00 | 267.32 | 7067.00 | 37.53 | 15.08 | 271.79 | 958.23 | 882.79 | 12.70 | |
| 8400.00 | 8468.90 | 90.00 | 267.32 | 7067.00 | 39.40 | 15.72 | 271.80 | 957.12 | 877.80 | 12.07 | |
| 8500.00 | 8568.89 | 90.00 | 267.32 | 7067.00 | 41.38 | 16.38 | 271.80 | 956.01 | 872.58 | 11.46 | |
| 8600.00 | 8668.89 | 90.00 | 267.32 | 7067.00 | 43.45 | 17.04 | 271.80 | 954.90 | 867.30 | 10.90 | |
| 8700.00 | 8768.88 | 90.00 | 267.32 | 7067.00 | 45.60 | 17.71 | 271.80 | 953.79 | 861.72 | 10.36 | |
| 8800.00 | 8868.87 | 90.00 | 267.32 | 7067.00 | 47.82 | 18.39 | 271.80 | 952.68 | 856.10 | 9.86 | |
| 8900.00 | 8968.87 | 90.00 | 267.32 | 7067.00 | 50.09 | 19.06 | 271.81 | 951.57 | 850.40 | 9.41 | |
| 9000.00 | 9068.86 | 90.00 | 267.32 | 7067.00 | 52.42 | 19.75 | 271.81 | 950.46 | 844.59 | 8.98 | |
| 9100.00 | 9168.86 | 90.00 | 267.32 | 7067.00 | 54.79 | 20.43 | 271.81 | 949.35 | 838.70 | 8.58 | |
| 9200.00 | 9268.85 | 90.00 | 267.32 | 7067.00 | 57.20 | 21.12 | 271.81 | 948.24 | 832.73 | 8.21 | |
| 9300.00 | 9368.84 | 90.00 | 267.32 | 7067.00 | 59.64 | 21.81 | 271.82 | 947.13 | 826.69 | 7.86 | |
| 9400.00 | 9468.84 | 90.00 | 267.32 | 7067.00 | 62.11 | 22.51 | 271.82 | 946.02 | 820.59 | 7.54 | |
| 9500.00 | 9568.83 | 90.00 | 267.32 | 7067.00 | 64.61 | 23.20 | 271.82 | 944.91 | 814.44 | 7.24 | |
| 9600.00 | 9668.83 | 90.00 | 267.32 | 7067.00 | 67.14 | 23.90 | 271.82 | 943.80 | 808.25 | 6.96 | |
| 9700.00 | 9768.82 | 90.00 | 267.32 | 7067.00 | 69.68 | 24.60 | 271.82 | 942.69 | 802.01 | 6.70 | |
| 9800.00 | 9868.81 | 90.00 | 267.32 | 7067.00 | 72.25 | 25.30 | 271.83 | 941.58 | 795.74 | 6.46 | |
| 9900.00 | 9968.81 | 90.00 | 267.32 | 7067.00 | 74.83 | 26.00 | 271.83 | 940.47 | 789.44 | 6.23 | |
| 10000.00 | 10068.80 | 90.00 | 267.32 | 7067.00 | 77.43 | 26.70 | 271.83 | 939.36 | 783.11 | 6.01 | |
| 10100.00 | 10168.79 | 90.00 | 267.32 | 7067.00 | 80.04 | 27.41 | 271.83 | 938.25 | 776.75 | 5.81 | |
| 10200.00 | 10268.79 | 90.00 | 267.32 | 7067.00 | 82.66 | 28.11 | 271.83 | 937.13 | 770.37 | 5.62 | |
| 10300.00 | 10368.78 | 90.00 | 267.32 | 7067.00 | 85.30 | 28.82 | 271.84 | 936.02 | 763.97 | 5.44 | |
| 10400.00 | 10468.78 | 90.00 | 267.32 | 7067.00 | 87.94 | 29.53 | 271.84 | 934.91 | 757.55 | 5.27 | |
| 10500.00 | 10568.77 | 90.00 | 267.32 | 7067.00 | 90.60 | 30.24 | 271.84 | 933.80 | 751.11 | 5.11 | |
| 10600.00 | 10668.76 | 90.00 | 267.32 | 7067.00 | 93.26 | 30.95 | 271.84 | 932.69 | 744.66 | 4.96 | |
| 10700.00 | 10768.76 | 90.00 | 267.32 | 7067.00 | 95.93 | 31.66 | 271.85 | 931.58 | 738.19 | 4.82 | |
| 10800.00 | 10868.75 | 90.00 | 267.32 | 7067.00 | 98.61 | 32.37 | 271.85 | 930.47 | 731.71 | 4.68 | |
| 10900.00 | 10968.75 | 90.00 | 267.32 | 7067.00 | 101.30 | 33.08 | 271.85 | 929.36 | 725.22 | 4.55 | |
| 11000.00 | 11068.74 | 90.00 | 267.32 | 7067.00 | 103.99 | 33.79 | 271.85 | 928.25 | 718.71 | 4.43 | |
| 11100.00 | 11168.73 | 90.00 | 267.32 | 7067.00 | 106.69 | 34.51 | 271.85 | 927.14 | 712.20 | 4.31 | |
| 11200.00 | 11268.73 | 90.00 | 267.32 | 7067.00 | 109.39 | 35.22 | 271.86 | 926.03 | 705.68 | 4.20 | |
| 11300.00 | 11368.72 | 90.00 | 267.32 | 7067.00 | 112.10 | 35.94 | 271.86 | 924.92 | 699.15 | 4.10 | |
| 11400.00 | 11468.71 | 90.00 | 267.32 | 7067.00 | 114.81 | 36.65 | 271.86 | 923.81 | 692.61 | 4.00 | |
| 11500.00 | 11568.71 | 90.00 | 267.32 | 7067.00 | 117.52 | 37.37 | 271.86 | 922.70 | 686.06 | 3.90 | |
| 11600.00 | 11668.70 | 90.00 | 267.32 | 7067.00 | 120.24 | 38.08 | 271.87 | 921.59 | 679.50 | 3.81 | |
| 11700.00 | 11768.70 | 90.00 | 267.32 | 7067.00 | 122.97 | 38.80 | 271.87 | 920.48 | 672.94 | 3.72 | |
| 11800.00 | 11868.69 | 90.00 | 267.32 | 7067.00 | 125.69 | 39.52 | 271.87 | 919.37 | 666.37 | 3.63 | |
| 11900.00 | 11968.68 | 90.00 | 267.32 | 7067.00 | 128.42 | 40.24 | 271.87 | 918.26 | 659.80 | 3.55 | |
| 12000.00 | 12068.68 | 90.00 | 267.32 | 7067.00 | 131.16 | 40.96 | 271.87 | 917.15 | 653.22 | 3.47 | |
| 12100.00 | 12168.67 | 90.00 | 267.32 | 7067.00 | 133.89 | 41.68 | 271.88 | 916.04 | 646.64 | 3.40 | |
| 12200.00 | 12268.67 | 90.00 | 267.32 | 7067.00 | 136.63 | 42.40 | 271.88 | 914.93 | 640.05 | 3.33 | |
| 12300.00 | 12368.66 | 90.00 | 267.32 | 7067.00 | 139.37 | 43.12 | 271.88 | 913.82 | 633.45 | 3.26 | |
| 12400.00 | 12468.65 | 90.00 | 267.32 | 7067.00 | 142.12 | 43.84 | 271.88 | 912.71 | 626.85 | 3.19 | |
| 12500.00 | 12568.65 | 90.00 | 267.32 | 7067.00 | 144.86 | 44.56 | 271.89 | 911.60 | 620.25 | 3.13 | |
| 12600.00 | 12668.64 | 90.00 | 267.32 | 7067.00 | 147.61 | 45.28 | 271.89 | 910.49 | 613.65 | 3.07 | |
| 12700.00 | 12768.63 | 90.00 | 267.32 | 7067.00 | 150.36 | 46.00 | 271.89 | 909.38 | 607.04 | 3.01 | |

5D Anti-Collision Report

| Secondary Well: Goetzel 13C-30-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
|--|-------------------|------------|-----------|----------------|--------------------|--------------------|-------------------------|---------------|---------------|--------|--------|
| Pri MD (US ft) | Sec MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Risk |
| 12800.00 | 12868.63 | 90.00 | 267.32 | 7067.00 | 153.11 | 46.72 | 271.89 | 908.27 | 600.42 | 2.95 | |
| 12900.00 | 12968.62 | 90.00 | 267.32 | 7067.00 | 155.87 | 47.44 | 271.90 | 907.16 | 593.81 | 2.90 | |
| 13000.00 | 13068.62 | 90.00 | 267.32 | 7067.00 | 158.62 | 48.17 | 271.90 | 906.05 | 587.19 | 2.84 | |
| 13100.00 | 13168.61 | 90.00 | 267.32 | 7067.00 | 161.38 | 48.89 | 271.90 | 904.94 | 580.57 | 2.79 | |
| 13200.00 | 13268.60 | 90.00 | 267.32 | 7067.00 | 164.13 | 49.61 | 271.90 | 903.83 | 573.94 | 2.74 | |
| 13300.00 | 13368.60 | 90.00 | 267.32 | 7067.00 | 166.89 | 50.34 | 271.90 | 902.72 | 567.31 | 2.69 | |
| 13400.00 | 13468.59 | 90.00 | 267.32 | 7067.00 | 169.66 | 51.06 | 271.91 | 901.61 | 560.68 | 2.64 | |
| 13500.00 | 13568.58 | 90.00 | 267.32 | 7067.00 | 172.42 | 51.78 | 271.91 | 900.49 | 554.05 | 2.60 | |
| 13600.00 | 13668.58 | 90.00 | 267.32 | 7067.00 | 175.18 | 52.51 | 271.91 | 899.38 | 547.42 | 2.56 | |
| 13700.00 | 13768.57 | 90.00 | 267.32 | 7067.00 | 177.95 | 53.23 | 271.91 | 898.27 | 540.78 | 2.51 | |
| 13800.00 | 13868.57 | 90.00 | 267.32 | 7067.00 | 180.71 | 53.96 | 271.92 | 897.16 | 534.14 | 2.47 | SF(Lo) |
| 13900.00 | 13968.56 | 90.00 | 267.32 | 7067.00 | 183.48 | 54.68 | 271.92 | 896.05 | 527.50 | 2.43 | SF(Lo) |
| 14000.00 | 14068.55 | 90.00 | 267.32 | 7067.00 | 186.25 | 55.41 | 271.92 | 894.94 | 520.86 | 2.39 | SF(Lo) |
| 14100.00 | 14168.55 | 90.00 | 267.32 | 7067.00 | 189.01 | 56.13 | 271.92 | 893.83 | 514.21 | 2.35 | SF(Lo) |
| 14200.00 | 14268.54 | 90.00 | 267.32 | 7067.00 | 191.78 | 56.86 | 271.93 | 892.72 | 507.57 | 2.32 | SF(Lo) |
| 14300.00 | 14368.54 | 90.00 | 267.32 | 7067.00 | 194.55 | 57.58 | 271.93 | 891.61 | 500.92 | 2.28 | SF(Lo) |
| 14400.00 | 14468.53 | 90.00 | 267.32 | 7067.00 | 197.33 | 58.31 | 271.93 | 890.50 | 494.27 | 2.25 | SF(Lo) |
| 14500.00 | 14568.52 | 90.00 | 267.32 | 7067.00 | 200.10 | 59.03 | 271.93 | 889.39 | 487.62 | 2.21 | SF(Lo) |
| 14600.00 | 14668.52 | 90.00 | 267.32 | 7067.00 | 202.87 | 59.76 | 271.94 | 888.28 | 480.97 | 2.18 | SF(Lo) |
| 14700.00 | 14768.51 | 90.00 | 267.32 | 7067.00 | 205.65 | 60.49 | 271.94 | 887.17 | 474.31 | 2.15 | SF(Lo) |
| 14800.00 | 14868.50 | 90.00 | 267.32 | 7067.00 | 208.42 | 61.21 | 271.94 | 886.06 | 467.66 | 2.12 | SF(Lo) |
| 14900.00 | 14968.50 | 90.00 | 267.32 | 7067.00 | 211.19 | 61.94 | 271.94 | 884.95 | 461.00 | 2.09 | SF(Lo) |
| 15000.00 | 15068.49 | 90.00 | 267.32 | 7067.00 | 213.97 | 62.67 | 271.95 | 883.84 | 454.34 | 2.06 | SF(Lo) |
| 15100.00 | 15168.49 | 90.00 | 267.32 | 7067.00 | 216.75 | 63.39 | 271.95 | 882.73 | 447.69 | 2.03 | SF(Lo) |
| 15200.00 | 15268.48 | 90.00 | 267.32 | 7067.00 | 219.52 | 64.12 | 271.95 | 881.62 | 441.03 | 2.00 | SF(Lo) |
| 15300.00 | 15368.47 | 90.00 | 267.32 | 7067.00 | 222.30 | 64.85 | 271.95 | 880.51 | 434.37 | 1.97 | SF(Lo) |
| 15400.00 | 15468.47 | 90.00 | 267.32 | 7067.00 | 225.08 | 65.57 | 271.96 | 879.40 | 427.70 | 1.95 | SF(Lo) |
| 15500.00 | 15568.46 | 90.00 | 267.32 | 7067.00 | 227.86 | 66.30 | 271.96 | 878.29 | 421.04 | 1.92 | SF(Lo) |
| 15600.00 | 15668.46 | 90.00 | 267.32 | 7067.00 | 230.64 | 67.03 | 271.96 | 877.18 | 414.38 | 1.90 | SF(Lo) |
| 15600.60 | 15669.06 | 90.00 | 267.32 | 7067.00 | 230.66 | 67.03 | 271.96 | 877.17 | 414.34 | 1.90 | SF(Lo) |
| Secondary Well: Goetzel 34N-30C-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
| Pri MD (US ft) | Sec MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Risk |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 180.03 | 100.19 | 99.45 | 136.62 | |
| 100.00 | 100.00 | 0.00 | 0.00 | 100.00 | 0.11 | 0.11 | 180.03 | 100.19 | 99.23 | 105.02 | |
| 200.00 | 200.00 | 0.00 | 0.00 | 200.00 | 0.34 | 0.34 | 180.03 | 100.19 | 98.78 | 71.38 | |
| 300.00 | 300.00 | 0.00 | 0.00 | 300.00 | 0.56 | 0.56 | 180.03 | 100.19 | 98.33 | 54.07 | |
| 400.00 | 400.00 | 0.00 | 0.00 | 400.00 | 0.79 | 0.79 | 180.03 | 100.19 | 97.88 | 43.51 | |
| 500.00 | 498.67 | 0.97 | 141.02 | 498.67 | 1.00 | 1.00 | 179.88 | 100.52 | 97.78 | 36.73 | |
| 600.00 | 595.91 | 2.92 | 141.02 | 595.84 | 1.18 | 1.18 | 178.73 | 103.18 | 100.04 | 32.83 | |
| 700.00 | 692.80 | 4.86 | 141.02 | 692.51 | 1.38 | 1.37 | 176.60 | 108.63 | 105.06 | 30.46 | |
| 800.00 | 789.15 | 6.78 | 141.02 | 788.36 | 1.61 | 1.57 | 173.81 | 117.03 | 113.03 | 29.26 | |
| 900.00 | 884.73 | 8.69 | 141.02 | 883.06 | 1.88 | 1.78 | 170.67 | 128.59 | 124.13 | 28.88 | |
| 1000.00 | 979.34 | 10.59 | 141.02 | 976.33 | 2.19 | 1.99 | 167.50 | 143.42 | 138.51 | 29.25 | |
| 1100.00 | 1072.80 | 12.46 | 141.02 | 1067.91 | 2.54 | 2.20 | 164.48 | 161.60 | 156.25 | 30.23 | |
| 1200.00 | 1165.03 | 14.30 | 141.02 | 1157.62 | 2.94 | 2.42 | 46.42 | 182.83 | 177.05 | 31.59 | |
| 1300.00 | 1256.44 | 16.13 | 141.02 | 1245.83 | 3.39 | 2.65 | 44.32 | 205.23 | 199.03 | 33.09 | |
| 1400.00 | 1347.13 | 17.94 | 141.02 | 1332.54 | 3.89 | 2.89 | 42.92 | 228.26 | 221.63 | 34.43 | |
| 1500.00 | 1437.08 | 19.74 | 141.02 | 1417.67 | 4.44 | 3.13 | 42.04 | 251.79 | 244.71 | 35.59 | |
| 1600.00 | 1531.29 | 20.44 | 141.02 | 1506.01 | 5.07 | 3.40 | 41.58 | 275.18 | 267.61 | 36.33 | |
| 1700.00 | 1629.02 | 20.44 | 141.02 | 1597.59 | 5.74 | 3.69 | 41.61 | 296.26 | 288.12 | 36.40 | |
| 1800.00 | 1727.21 | 20.44 | 141.02 | 1689.60 | 6.43 | 3.99 | 42.07 | 314.81 | 306.03 | 35.87 | |
| 1900.00 | 1825.74 | 20.44 | 141.02 | 1781.92 | 7.13 | 4.30 | 42.89 | 330.88 | 321.42 | 34.97 | |
| 2000.00 | 1924.46 | 20.44 | 141.02 | 1874.42 | 7.84 | 4.60 | 44.09 | 344.89 | 334.69 | 33.80 | |
| 2100.00 | 2023.20 | 20.44 | 141.02 | 1966.94 | 8.54 | 4.92 | 45.33 | 358.78 | 347.78 | 32.64 | |
| 2200.00 | 2121.94 | 20.44 | 141.02 | 2059.46 | 9.26 | 5.23 | 46.48 | 372.81 | 360.98 | 31.52 | |
| 2300.00 | 2220.68 | 20.44 | 141.02 | 2151.98 | 9.97 | 5.55 | 47.55 | 386.99 | 374.26 | 30.40 | |

5D Anti-Collision Report

| Secondary Well: Goetzel 34N-30C-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
|--|-------------------|------------|-----------|----------------|--------------------|--------------------|-------------------------|---------------|---------------|-------|------|
| Pri MD (US ft) | Sec MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Risk |
| 2400.00 | 2319.42 | 20.44 | 141.02 | 2244.51 | 10.69 | 5.87 | 48.54 | 401.29 | 387.63 | 29.38 | |
| 2500.00 | 2418.16 | 20.44 | 141.02 | 2337.03 | 11.41 | 6.18 | 49.47 | 415.69 | 401.09 | 28.47 | |
| 2600.00 | 2516.90 | 20.44 | 141.02 | 2429.55 | 12.13 | 6.50 | 50.33 | 430.20 | 414.64 | 27.65 | |
| 2700.00 | 2615.65 | 20.44 | 141.02 | 2522.07 | 12.85 | 6.83 | 51.13 | 444.79 | 428.27 | 26.92 | |
| 2800.00 | 2714.39 | 20.44 | 141.02 | 2614.59 | 13.57 | 7.15 | 51.89 | 459.47 | 441.97 | 26.25 | |
| 2900.00 | 2813.13 | 20.44 | 141.02 | 2707.11 | 14.29 | 7.47 | 52.59 | 474.22 | 455.73 | 25.65 | |
| 3000.00 | 2911.87 | 20.44 | 141.02 | 2799.64 | 15.01 | 7.79 | 53.26 | 489.04 | 469.53 | 25.07 | |
| 3100.00 | 3010.61 | 20.44 | 141.02 | 2892.16 | 15.74 | 8.12 | 53.89 | 503.92 | 483.38 | 24.54 | |
| 3200.00 | 3109.35 | 20.44 | 141.02 | 2984.68 | 16.46 | 8.44 | 54.48 | 518.85 | 497.28 | 24.05 | |
| 3300.00 | 3208.09 | 20.44 | 141.02 | 3077.20 | 17.18 | 8.77 | 55.03 | 533.83 | 511.20 | 23.59 | |
| 3400.00 | 3306.83 | 20.44 | 141.02 | 3169.72 | 17.91 | 9.09 | 55.56 | 548.86 | 525.17 | 23.16 | |
| 3500.00 | 3405.58 | 20.44 | 141.02 | 3262.25 | 18.63 | 9.42 | 56.06 | 563.94 | 539.17 | 22.77 | |
| 3600.00 | 3504.32 | 20.44 | 141.02 | 3354.77 | 19.36 | 9.75 | 56.53 | 579.05 | 553.20 | 22.40 | |
| 3700.00 | 3603.06 | 20.44 | 141.02 | 3447.29 | 20.09 | 10.07 | 56.98 | 594.20 | 567.27 | 22.06 | |
| 3800.00 | 3701.80 | 20.44 | 141.02 | 3539.81 | 20.81 | 10.40 | 57.41 | 609.39 | 581.37 | 21.75 | |
| 3900.00 | 3800.54 | 20.44 | 141.02 | 3632.33 | 21.54 | 10.73 | 57.81 | 624.60 | 595.50 | 21.46 | |
| 4000.00 | 3899.28 | 20.44 | 141.02 | 3724.85 | 22.26 | 11.05 | 58.20 | 639.85 | 609.65 | 21.19 | |
| 4100.00 | 3998.02 | 20.44 | 141.02 | 3817.38 | 22.99 | 11.38 | 58.57 | 655.12 | 623.83 | 20.94 | |
| 4200.00 | 4096.76 | 20.44 | 141.02 | 3909.90 | 23.72 | 11.71 | 58.92 | 670.41 | 638.03 | 20.70 | |
| 4300.00 | 4195.50 | 20.44 | 141.02 | 4002.42 | 24.44 | 12.04 | 59.25 | 685.74 | 652.26 | 20.48 | |
| 4400.00 | 4294.25 | 20.44 | 141.02 | 4094.94 | 25.17 | 12.36 | 59.57 | 701.08 | 666.50 | 20.28 | |
| 4500.00 | 4392.99 | 20.44 | 141.02 | 4187.46 | 25.90 | 12.69 | 59.88 | 716.44 | 680.77 | 20.08 | |
| 4600.00 | 4491.73 | 20.44 | 141.02 | 4279.98 | 26.63 | 13.02 | 60.18 | 731.82 | 695.04 | 19.89 | |
| 4700.00 | 4590.47 | 20.44 | 141.02 | 4372.51 | 27.35 | 13.35 | 60.46 | 747.23 | 709.32 | 19.71 | |
| 4800.00 | 4689.21 | 20.44 | 141.02 | 4465.03 | 28.08 | 13.68 | 60.73 | 762.64 | 723.61 | 19.54 | |
| 4900.00 | 4787.95 | 20.44 | 141.02 | 4557.55 | 28.81 | 14.00 | 60.99 | 778.08 | 737.92 | 19.38 | |
| 5000.00 | 4886.69 | 20.44 | 141.02 | 4650.07 | 29.54 | 14.33 | 61.24 | 793.53 | 752.25 | 19.22 | |
| 5100.00 | 4985.43 | 20.44 | 141.02 | 4742.59 | 30.26 | 14.66 | 61.48 | 808.99 | 766.59 | 19.08 | |
| 5200.00 | 5084.17 | 20.44 | 141.02 | 4835.12 | 30.99 | 14.99 | 61.71 | 824.47 | 780.94 | 18.94 | |
| 5300.00 | 5182.92 | 20.44 | 141.02 | 4927.64 | 31.72 | 15.32 | 61.94 | 839.96 | 795.30 | 18.81 | |
| 5400.00 | 5281.66 | 20.44 | 141.02 | 5020.16 | 32.45 | 15.65 | 62.15 | 855.46 | 809.67 | 18.68 | |
| 5500.00 | 5380.40 | 20.44 | 141.02 | 5112.68 | 33.18 | 15.98 | 62.36 | 870.97 | 824.06 | 18.57 | |
| 5600.00 | 5479.14 | 20.44 | 141.02 | 5205.20 | 33.90 | 16.31 | 62.56 | 886.49 | 838.45 | 18.45 | |
| 5700.00 | 5577.88 | 20.44 | 141.02 | 5297.72 | 34.63 | 16.63 | 62.75 | 902.03 | 852.86 | 18.34 | |
| 5800.00 | 5676.62 | 20.44 | 141.02 | 5390.25 | 35.36 | 16.96 | 62.94 | 917.57 | 867.27 | 18.24 | |
| 5900.00 | 5775.36 | 20.44 | 141.02 | 5482.77 | 36.09 | 17.29 | 63.12 | 933.12 | 881.69 | 18.14 | |
| 6000.00 | 5874.10 | 20.44 | 141.02 | 5575.29 | 36.82 | 17.62 | 63.29 | 948.68 | 896.12 | 18.05 | |
| 6100.00 | 5972.84 | 20.44 | 141.02 | 5667.81 | 37.54 | 17.95 | 63.46 | 964.25 | 910.56 | 17.96 | |
| 6200.00 | 6071.59 | 20.44 | 141.02 | 5760.33 | 38.27 | 18.28 | 63.63 | 979.83 | 925.00 | 17.87 | |
| 6300.00 | 6170.33 | 20.44 | 141.02 | 5852.85 | 39.00 | 18.61 | 63.79 | 995.42 | 939.46 | 17.79 | |
| 6400.00 | 6269.07 | 20.44 | 141.02 | 5945.38 | 39.73 | 18.94 | 63.70 | 1011.01 | 953.92 | 17.71 | |
| 6500.00 | 6367.73 | 20.44 | 141.02 | 6037.83 | 40.46 | 19.27 | 41.06 | 1026.13 | 968.32 | 17.75 | |
| 6600.00 | 6466.49 | 20.43 | 141.10 | 6128.87 | 41.17 | 19.59 | 349.21 | 1040.34 | 982.39 | 17.95 | |
| 6700.00 | 6553.10 | 17.42 | 160.94 | 6212.39 | 41.42 | 19.83 | 312.31 | 1054.33 | 996.88 | 18.35 | |
| 6800.00 | 6643.98 | 16.96 | 185.67 | 6299.32 | 41.13 | 19.96 | 298.00 | 1068.43 | 1011.78 | 18.86 | |
| 6900.00 | 6738.02 | 19.48 | 208.53 | 6388.75 | 40.28 | 19.95 | 291.26 | 1082.45 | 1026.64 | 19.39 | |
| 7000.00 | 6835.78 | 24.31 | 225.16 | 6479.52 | 38.87 | 19.77 | 287.35 | 1096.14 | 1041.26 | 19.97 | |
| 7100.00 | 6937.81 | 30.64 | 236.43 | 6570.06 | 36.94 | 19.37 | 284.74 | 1109.26 | 1055.27 | 20.55 | |
| 7200.00 | 7044.70 | 37.96 | 244.30 | 6658.34 | 34.61 | 18.65 | 282.80 | 1121.49 | 1068.23 | 21.05 | |
| 7300.00 | 7156.93 | 46.05 | 250.14 | 6741.70 | 32.16 | 17.44 | 281.26 | 1132.53 | 1079.59 | 21.40 | |
| 7400.00 | 7274.88 | 54.80 | 254.75 | 6816.79 | 30.03 | 15.52 | 279.97 | 1142.00 | 1088.79 | 21.47 | |
| 7500.00 | 7398.64 | 64.12 | 258.62 | 6879.62 | 28.73 | 12.94 | 278.88 | 1149.52 | 1095.39 | 21.24 | |
| 7600.00 | 7527.95 | 73.96 | 262.06 | 6925.83 | 28.48 | 10.64 | 277.96 | 1154.74 | 1098.93 | 20.69 | |
| 7700.00 | 7662.04 | 84.21 | 265.28 | 6951.19 | 29.18 | 10.60 | 277.24 | 1157.30 | 1099.23 | 19.93 | |
| 7800.00 | 7782.49 | 90.00 | 267.03 | 6955.00 | 30.29 | 12.20 | 277.05 | 1157.18 | 1096.77 | 19.16 | |
| 7900.00 | 7882.49 | 90.00 | 267.03 | 6955.00 | 31.36 | 12.74 | 277.05 | 1156.57 | 1093.82 | 18.43 | |
| 8000.00 | 7982.48 | 90.00 | 267.03 | 6955.00 | 32.63 | 13.31 | 277.06 | 1155.96 | 1090.55 | 17.67 | |
| 8100.00 | 8082.48 | 90.00 | 267.03 | 6955.00 | 34.07 | 13.92 | 277.06 | 1155.34 | 1086.95 | 16.89 | |

5D Anti-Collision Report

| Secondary Well: Goetzel 34N-30C-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
|--|-------------------|------------|-----------|----------------|--------------------|--------------------|-------------------------|---------------|---------------|-------|------|
| Pri MD (US ft) | Sec MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Risk |
| 8200.00 | 8182.48 | 90.00 | 267.03 | 6955.00 | 35.67 | 14.55 | 277.06 | 1154.73 | 1083.00 | 16.10 | |
| 8300.00 | 8282.48 | 90.00 | 267.03 | 6955.00 | 37.40 | 15.20 | 277.07 | 1154.12 | 1078.76 | 15.32 | |
| 8400.00 | 8382.48 | 90.00 | 267.03 | 6955.00 | 39.26 | 15.86 | 277.07 | 1153.51 | 1074.37 | 14.58 | |
| 8500.00 | 8482.48 | 90.00 | 267.03 | 6955.00 | 41.22 | 16.54 | 277.08 | 1152.90 | 1069.59 | 13.84 | |
| 8600.00 | 8582.47 | 90.00 | 267.03 | 6955.00 | 43.27 | 17.22 | 277.08 | 1152.28 | 1064.82 | 13.17 | |
| 8700.00 | 8682.47 | 90.00 | 267.03 | 6955.00 | 45.40 | 17.90 | 277.08 | 1151.67 | 1059.80 | 12.54 | |
| 8800.00 | 8782.47 | 90.00 | 267.03 | 6955.00 | 47.60 | 18.59 | 277.09 | 1151.06 | 1054.73 | 11.95 | |
| 8900.00 | 8882.47 | 90.00 | 267.03 | 6955.00 | 49.86 | 19.29 | 277.09 | 1150.45 | 1049.59 | 11.41 | |
| 9000.00 | 8982.47 | 90.00 | 267.03 | 6955.00 | 52.18 | 19.99 | 277.09 | 1149.84 | 1044.35 | 10.90 | |
| 9100.00 | 9082.46 | 90.00 | 267.03 | 6955.00 | 54.53 | 20.68 | 277.10 | 1149.23 | 1039.01 | 10.43 | |
| 9200.00 | 9182.46 | 90.00 | 267.03 | 6955.00 | 56.93 | 21.38 | 277.10 | 1148.61 | 1033.59 | 9.99 | |
| 9300.00 | 9282.46 | 90.00 | 267.03 | 6955.00 | 59.37 | 22.09 | 277.11 | 1148.00 | 1028.09 | 9.57 | |
| 9400.00 | 9382.46 | 90.00 | 267.03 | 6955.00 | 61.84 | 22.79 | 277.11 | 1147.39 | 1022.54 | 9.19 | |
| 9500.00 | 9482.46 | 90.00 | 267.03 | 6955.00 | 64.33 | 23.49 | 277.11 | 1146.78 | 1016.93 | 8.83 | |
| 9600.00 | 9582.45 | 90.00 | 267.03 | 6955.00 | 66.85 | 24.20 | 277.12 | 1146.17 | 1011.28 | 8.50 | |
| 9700.00 | 9682.45 | 90.00 | 267.03 | 6955.00 | 69.39 | 24.90 | 277.12 | 1145.55 | 1005.59 | 8.18 | |
| 9800.00 | 9782.45 | 90.00 | 267.03 | 6955.00 | 71.95 | 25.61 | 277.12 | 1144.94 | 999.86 | 7.89 | |
| 9900.00 | 9882.45 | 90.00 | 267.03 | 6955.00 | 74.52 | 26.32 | 277.13 | 1144.33 | 994.10 | 7.62 | |
| 10000.00 | 9982.45 | 90.00 | 267.03 | 6955.00 | 77.12 | 27.03 | 277.13 | 1143.72 | 988.31 | 7.36 | |
| 10100.00 | 10082.44 | 90.00 | 267.03 | 6955.00 | 79.72 | 27.74 | 277.14 | 1143.11 | 982.50 | 7.12 | |
| 10200.00 | 10182.44 | 90.00 | 267.03 | 6955.00 | 82.34 | 28.45 | 277.14 | 1142.50 | 976.66 | 6.89 | |
| 10300.00 | 10282.44 | 90.00 | 267.03 | 6955.00 | 84.97 | 29.16 | 277.14 | 1141.88 | 970.80 | 6.67 | |
| 10400.00 | 10382.44 | 90.00 | 267.03 | 6955.00 | 87.61 | 29.87 | 277.15 | 1141.27 | 964.93 | 6.47 | |
| 10500.00 | 10482.44 | 90.00 | 267.03 | 6955.00 | 90.27 | 30.58 | 277.15 | 1140.66 | 959.03 | 6.28 | |
| 10600.00 | 10582.44 | 90.00 | 267.03 | 6955.00 | 92.93 | 31.30 | 277.16 | 1140.05 | 953.12 | 6.10 | |
| 10700.00 | 10682.43 | 90.00 | 267.03 | 6955.00 | 95.59 | 32.01 | 277.16 | 1139.44 | 947.20 | 5.93 | |
| 10800.00 | 10782.43 | 90.00 | 267.03 | 6955.00 | 98.27 | 32.72 | 277.16 | 1138.83 | 941.27 | 5.76 | |
| 10900.00 | 10882.43 | 90.00 | 267.03 | 6955.00 | 100.95 | 33.44 | 277.17 | 1138.21 | 935.32 | 5.61 | |
| 11000.00 | 10982.43 | 90.00 | 267.03 | 6955.00 | 103.64 | 34.15 | 277.17 | 1137.60 | 929.36 | 5.46 | |
| 11100.00 | 11082.43 | 90.00 | 267.03 | 6955.00 | 106.33 | 34.87 | 277.17 | 1136.99 | 923.39 | 5.32 | |
| 11200.00 | 11182.42 | 90.00 | 267.03 | 6955.00 | 109.03 | 35.59 | 277.18 | 1136.38 | 917.41 | 5.19 | |
| 11300.00 | 11282.42 | 90.00 | 267.03 | 6955.00 | 111.74 | 36.30 | 277.18 | 1135.77 | 911.43 | 5.06 | |
| 11400.00 | 11382.42 | 90.00 | 267.03 | 6955.00 | 114.45 | 37.02 | 277.19 | 1135.16 | 905.43 | 4.94 | |
| 11500.00 | 11482.42 | 90.00 | 267.03 | 6955.00 | 117.16 | 37.74 | 277.19 | 1134.54 | 899.43 | 4.83 | |
| 11600.00 | 11582.42 | 90.00 | 267.03 | 6955.00 | 119.88 | 38.46 | 277.19 | 1133.93 | 893.42 | 4.71 | |
| 11700.00 | 11682.41 | 90.00 | 267.03 | 6955.00 | 122.60 | 39.18 | 277.20 | 1133.32 | 887.40 | 4.61 | |
| 11800.00 | 11782.41 | 90.00 | 267.03 | 6955.00 | 125.33 | 39.90 | 277.20 | 1132.71 | 881.38 | 4.51 | |
| 11900.00 | 11882.41 | 90.00 | 267.03 | 6955.00 | 128.05 | 40.62 | 277.21 | 1132.10 | 875.35 | 4.41 | |
| 12000.00 | 11982.41 | 90.00 | 267.03 | 6955.00 | 130.78 | 41.34 | 277.21 | 1131.49 | 869.31 | 4.32 | |
| 12100.00 | 12082.41 | 90.00 | 267.03 | 6955.00 | 133.52 | 42.06 | 277.21 | 1130.87 | 863.28 | 4.23 | |
| 12200.00 | 12182.40 | 90.00 | 267.03 | 6955.00 | 136.26 | 42.78 | 277.22 | 1130.26 | 857.23 | 4.14 | |
| 12300.00 | 12282.40 | 90.00 | 267.03 | 6955.00 | 138.99 | 43.50 | 277.22 | 1129.65 | 851.18 | 4.06 | |
| 12400.00 | 12382.40 | 90.00 | 267.03 | 6955.00 | 141.74 | 44.22 | 277.23 | 1129.04 | 845.13 | 3.98 | |
| 12500.00 | 12482.40 | 90.00 | 267.03 | 6955.00 | 144.48 | 44.95 | 277.23 | 1128.43 | 839.07 | 3.90 | |
| 12600.00 | 12582.40 | 90.00 | 267.03 | 6955.00 | 147.23 | 45.67 | 277.23 | 1127.82 | 833.01 | 3.83 | |
| 12700.00 | 12682.40 | 90.00 | 267.03 | 6955.00 | 149.97 | 46.39 | 277.24 | 1127.20 | 826.95 | 3.75 | |
| 12800.00 | 12782.39 | 90.00 | 267.03 | 6955.00 | 152.72 | 47.11 | 277.24 | 1126.59 | 820.88 | 3.69 | |
| 12900.00 | 12882.39 | 90.00 | 267.03 | 6955.00 | 155.47 | 47.84 | 277.25 | 1125.98 | 814.81 | 3.62 | |
| 13000.00 | 12982.39 | 90.00 | 267.03 | 6955.00 | 158.23 | 48.56 | 277.25 | 1125.37 | 808.74 | 3.55 | |
| 13100.00 | 13082.39 | 90.00 | 267.03 | 6955.00 | 160.98 | 49.28 | 277.25 | 1124.76 | 802.66 | 3.49 | |
| 13200.00 | 13182.39 | 90.00 | 267.03 | 6955.00 | 163.74 | 50.01 | 277.26 | 1124.15 | 796.59 | 3.43 | |
| 13300.00 | 13282.38 | 90.00 | 267.03 | 6955.00 | 166.50 | 50.73 | 277.26 | 1123.53 | 790.50 | 3.37 | |
| 13400.00 | 13382.38 | 90.00 | 267.03 | 6955.00 | 169.26 | 51.46 | 277.26 | 1122.92 | 784.42 | 3.32 | |
| 13500.00 | 13482.38 | 90.00 | 267.03 | 6955.00 | 172.02 | 52.18 | 277.27 | 1122.31 | 778.33 | 3.26 | |
| 13600.00 | 13582.38 | 90.00 | 267.03 | 6955.00 | 174.78 | 52.91 | 277.27 | 1121.70 | 772.25 | 3.21 | |
| 13700.00 | 13682.38 | 90.00 | 267.03 | 6955.00 | 177.54 | 53.63 | 277.28 | 1121.09 | 766.16 | 3.16 | |
| 13800.00 | 13782.37 | 90.00 | 267.03 | 6955.00 | 180.31 | 54.36 | 277.28 | 1120.48 | 760.06 | 3.11 | |
| 13900.00 | 13882.37 | 90.00 | 267.03 | 6955.00 | 183.07 | 55.08 | 277.28 | 1119.87 | 753.97 | 3.06 | |

5D Anti-Collision Report

| Secondary Well: Goetzel 34N-30C-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
|--|-------------------|------------|-----------|----------------|--------------------|--------------------|-------------------------|---------------|---------------|------|--------|
| Pri MD (US ft) | Sec MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Risk |
| 14000.00 | 13982.37 | 90.00 | 267.03 | 6955.00 | 185.84 | 55.81 | 277.29 | 1119.25 | 747.87 | 3.01 | |
| 14100.00 | 14082.37 | 90.00 | 267.03 | 6955.00 | 188.60 | 56.53 | 277.29 | 1118.64 | 741.77 | 2.97 | |
| 14200.00 | 14182.37 | 90.00 | 267.03 | 6955.00 | 191.37 | 57.26 | 277.30 | 1118.03 | 735.68 | 2.92 | |
| 14300.00 | 14282.36 | 90.00 | 267.03 | 6955.00 | 194.14 | 57.99 | 277.30 | 1117.42 | 729.57 | 2.88 | |
| 14400.00 | 14382.36 | 90.00 | 267.03 | 6955.00 | 196.91 | 58.71 | 277.30 | 1116.81 | 723.47 | 2.84 | |
| 14500.00 | 14482.36 | 90.00 | 267.03 | 6955.00 | 199.68 | 59.44 | 277.31 | 1116.20 | 717.37 | 2.80 | |
| 14600.00 | 14582.36 | 90.00 | 267.03 | 6955.00 | 202.45 | 60.17 | 277.31 | 1115.58 | 711.26 | 2.76 | |
| 14700.00 | 14682.36 | 90.00 | 267.03 | 6955.00 | 205.23 | 60.89 | 277.32 | 1114.97 | 705.16 | 2.72 | |
| 14800.00 | 14782.36 | 90.00 | 267.03 | 6955.00 | 208.00 | 61.62 | 277.32 | 1114.36 | 699.05 | 2.68 | |
| 14900.00 | 14882.35 | 90.00 | 267.03 | 6955.00 | 210.77 | 62.35 | 277.33 | 1113.75 | 692.94 | 2.65 | |
| 15000.00 | 14982.35 | 90.00 | 267.03 | 6955.00 | 213.55 | 63.07 | 277.33 | 1113.14 | 686.83 | 2.61 | |
| 15100.00 | 15082.35 | 90.00 | 267.03 | 6955.00 | 216.32 | 63.80 | 277.33 | 1112.53 | 680.72 | 2.58 | |
| 15200.00 | 15182.35 | 90.00 | 267.03 | 6955.00 | 219.10 | 64.53 | 277.34 | 1111.92 | 674.60 | 2.54 | |
| 15300.00 | 15282.35 | 90.00 | 267.03 | 6955.00 | 221.87 | 65.26 | 277.34 | 1111.30 | 668.49 | 2.51 | |
| 15400.00 | 15382.34 | 90.00 | 267.03 | 6955.00 | 224.65 | 65.98 | 277.35 | 1110.69 | 662.38 | 2.48 | SF(Lo) |
| 15500.00 | 15482.34 | 90.00 | 267.03 | 6955.00 | 227.43 | 66.71 | 277.35 | 1110.08 | 656.26 | 2.45 | SF(Lo) |
| 15600.00 | 15582.34 | 90.00 | 267.03 | 6955.00 | 230.21 | 67.44 | 277.35 | 1109.47 | 650.15 | 2.42 | SF(Lo) |
| 15600.60 | 15582.94 | 90.00 | 267.03 | 6955.00 | 230.22 | 67.45 | 277.35 | 1109.47 | 650.11 | 2.42 | SF(Lo) |

| Secondary Well: Goetzel 34C-30M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
|--|-------------------|------------|-----------|----------------|--------------------|--------------------|-------------------------|---------------|---------------|--------|------|
| Pri MD (US ft) | Sec MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Risk |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 180.08 | 120.22 | 119.49 | 163.95 | |
| 100.00 | 100.00 | 0.00 | 0.00 | 100.00 | 0.11 | 0.11 | 180.08 | 120.22 | 119.27 | 126.03 | |
| 200.00 | 200.00 | 0.00 | 0.00 | 200.00 | 0.34 | 0.34 | 180.08 | 120.22 | 118.82 | 85.66 | |
| 300.00 | 300.00 | 0.00 | 0.00 | 300.00 | 0.56 | 0.56 | 180.08 | 120.22 | 118.37 | 64.88 | |
| 400.00 | 396.68 | 1.93 | 144.12 | 396.66 | 0.76 | 0.76 | 179.63 | 121.59 | 119.32 | 53.52 | |
| 500.00 | 493.14 | 3.86 | 144.12 | 492.99 | 0.95 | 0.95 | 178.34 | 125.75 | 123.05 | 46.66 | |
| 600.00 | 589.16 | 5.78 | 144.12 | 588.67 | 1.17 | 1.15 | 176.37 | 132.79 | 129.66 | 42.46 | |
| 700.00 | 684.53 | 7.69 | 144.12 | 683.38 | 1.43 | 1.35 | 173.96 | 142.86 | 139.28 | 39.92 | |
| 800.00 | 779.06 | 9.58 | 144.12 | 776.83 | 1.73 | 1.57 | 171.34 | 156.09 | 152.06 | 38.67 | |
| 900.00 | 872.54 | 11.45 | 144.12 | 868.74 | 2.07 | 1.79 | 168.70 | 172.57 | 168.08 | 38.41 | |
| 1000.00 | 964.81 | 13.30 | 144.12 | 958.86 | 2.46 | 2.01 | 166.19 | 192.32 | 187.38 | 38.91 | |
| 1100.00 | 1055.69 | 15.11 | 144.12 | 1046.96 | 2.90 | 2.24 | 163.89 | 215.34 | 209.93 | 39.83 | |
| 1200.00 | 1145.14 | 16.90 | 144.12 | 1132.94 | 3.37 | 2.47 | 161.44 | 241.28 | 235.41 | 41.14 | |
| 1300.00 | 1233.68 | 18.67 | 144.12 | 1217.24 | 3.90 | 2.72 | 158.71 | 268.26 | 261.98 | 42.77 | |
| 1400.00 | 1321.40 | 20.43 | 144.12 | 1299.90 | 4.47 | 2.96 | 155.53 | 295.79 | 289.08 | 44.09 | |
| 1500.00 | 1415.31 | 20.88 | 144.12 | 1387.67 | 5.13 | 3.24 | 151.79 | 322.99 | 315.78 | 44.76 | |
| 1600.00 | 1512.17 | 20.88 | 144.12 | 1478.17 | 5.82 | 3.54 | 147.34 | 347.82 | 340.09 | 44.99 | |
| 1700.00 | 1609.60 | 20.88 | 144.12 | 1569.20 | 6.53 | 3.85 | 142.34 | 370.16 | 361.83 | 44.46 | |
| 1800.00 | 1707.48 | 20.88 | 144.12 | 1660.65 | 7.24 | 4.16 | 136.94 | 390.03 | 381.08 | 43.56 | |
| 1900.00 | 1805.68 | 20.88 | 144.12 | 1752.40 | 7.96 | 4.48 | 131.14 | 407.50 | 397.85 | 42.23 | |
| 2000.00 | 1904.08 | 20.88 | 144.12 | 1844.34 | 8.68 | 4.80 | 124.94 | 422.97 | 412.57 | 40.66 | |
| 2100.00 | 2002.49 | 20.88 | 144.12 | 1936.29 | 9.41 | 5.12 | 118.34 | 438.34 | 427.13 | 39.10 | |
| 2200.00 | 2100.91 | 20.88 | 144.12 | 2028.24 | 10.14 | 5.44 | 111.34 | 453.87 | 441.81 | 37.63 | |
| 2300.00 | 2199.33 | 20.88 | 144.12 | 2120.19 | 10.87 | 5.76 | 103.94 | 469.56 | 456.61 | 36.25 | |
| 2400.00 | 2297.74 | 20.88 | 144.12 | 2212.14 | 11.60 | 6.09 | 96.14 | 485.40 | 471.51 | 34.95 | |
| 2500.00 | 2396.16 | 20.88 | 144.12 | 2304.09 | 12.33 | 6.42 | 87.94 | 501.36 | 486.52 | 33.79 | |
| 2600.00 | 2494.58 | 20.88 | 144.12 | 2396.05 | 13.06 | 6.74 | 79.34 | 517.43 | 501.63 | 32.75 | |
| 2700.00 | 2592.99 | 20.88 | 144.12 | 2488.00 | 13.79 | 7.07 | 70.34 | 533.61 | 516.84 | 31.82 | |
| 2800.00 | 2691.41 | 20.88 | 144.12 | 2579.95 | 14.53 | 7.40 | 60.94 | 549.88 | 532.13 | 30.98 | |
| 2900.00 | 2789.82 | 20.88 | 144.12 | 2671.90 | 15.26 | 7.72 | 51.14 | 566.25 | 547.51 | 30.21 | |
| 3000.00 | 2888.24 | 20.88 | 144.12 | 2763.85 | 16.00 | 8.05 | 40.94 | 582.69 | 562.95 | 29.52 | |
| 3100.00 | 2986.66 | 20.88 | 144.12 | 2855.81 | 16.73 | 8.38 | 30.34 | 599.20 | 578.45 | 28.87 | |
| 3200.00 | 3085.07 | 20.88 | 144.12 | 2947.76 | 17.47 | 8.71 | 19.34 | 615.79 | 593.98 | 28.23 | |
| 3300.00 | 3183.49 | 20.88 | 144.12 | 3039.71 | 18.20 | 9.04 | 7.94 | 632.43 | 609.56 | 27.65 | |
| 3400.00 | 3281.90 | 20.88 | 144.12 | 3131.66 | 18.94 | 9.37 | -3.06 | 649.13 | 625.19 | 27.11 | |
| 3500.00 | 3380.32 | 20.88 | 144.12 | 3223.61 | 19.67 | 9.70 | -12.06 | 665.89 | 640.87 | 26.62 | |

5D Anti-Collision Report

| Secondary Well: Goetzel 34C-30-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
|---|-------------------|------------|-----------|----------------|--------------------|--------------------|-------------------------|---------------|---------------|-------|------|
| Pri MD (US ft) | Sec MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Risk |
| 3600.00 | 3478.74 | 20.88 | 144.12 | 3315.56 | 20.41 | 10.03 | 57.37 | 682.69 | 656.59 | 26.16 | |
| 3700.00 | 3577.15 | 20.88 | 144.12 | 3407.52 | 21.14 | 10.36 | 57.83 | 699.54 | 672.36 | 25.73 | |
| 3800.00 | 3675.57 | 20.88 | 144.12 | 3499.47 | 21.88 | 10.69 | 58.27 | 716.43 | 688.16 | 25.34 | |
| 3900.00 | 3773.99 | 20.88 | 144.12 | 3591.42 | 22.62 | 11.02 | 58.69 | 733.36 | 703.99 | 24.97 | |
| 4000.00 | 3872.40 | 20.88 | 144.12 | 3683.37 | 23.35 | 11.35 | 59.09 | 750.33 | 719.87 | 24.63 | |
| 4100.00 | 3970.82 | 20.88 | 144.12 | 3775.32 | 24.09 | 11.68 | 59.48 | 767.33 | 735.77 | 24.31 | |
| 4200.00 | 4069.23 | 20.88 | 144.12 | 3867.28 | 24.83 | 12.01 | 59.84 | 784.37 | 751.71 | 24.01 | |
| 4300.00 | 4167.65 | 20.88 | 144.12 | 3959.23 | 25.56 | 12.34 | 60.20 | 801.43 | 767.67 | 23.74 | |
| 4400.00 | 4266.07 | 20.88 | 144.12 | 4051.18 | 26.30 | 12.68 | 60.53 | 818.53 | 783.66 | 23.48 | |
| 4500.00 | 4364.48 | 20.88 | 144.12 | 4143.13 | 27.04 | 13.01 | 60.86 | 835.65 | 799.67 | 23.23 | |
| 4600.00 | 4462.90 | 20.88 | 144.12 | 4235.08 | 27.77 | 13.34 | 61.17 | 852.79 | 815.71 | 23.00 | |
| 4700.00 | 4561.31 | 20.88 | 144.12 | 4327.03 | 28.51 | 13.67 | 61.46 | 869.96 | 831.77 | 22.78 | |
| 4800.00 | 4659.73 | 20.88 | 144.12 | 4418.99 | 29.25 | 14.00 | 61.75 | 887.15 | 847.85 | 22.58 | |
| 4900.00 | 4758.15 | 20.88 | 144.12 | 4510.94 | 29.99 | 14.33 | 62.03 | 904.36 | 863.95 | 22.38 | |
| 5000.00 | 4856.56 | 20.88 | 144.12 | 4602.89 | 30.72 | 14.66 | 62.29 | 921.59 | 880.07 | 22.20 | |
| 5100.00 | 4954.98 | 20.88 | 144.12 | 4694.84 | 31.46 | 15.00 | 62.55 | 938.83 | 896.19 | 22.01 | |
| 5200.00 | 5053.40 | 20.88 | 144.12 | 4786.79 | 32.20 | 15.33 | 62.79 | 956.10 | 912.32 | 21.84 | |
| 5300.00 | 5151.81 | 20.88 | 144.12 | 4878.75 | 32.93 | 15.66 | 63.03 | 973.38 | 928.47 | 21.67 | |
| 5400.00 | 5250.23 | 20.88 | 144.12 | 4970.70 | 33.67 | 15.99 | 63.26 | 990.68 | 944.64 | 21.52 | |
| 5500.00 | 5348.64 | 20.88 | 144.12 | 5062.65 | 34.41 | 16.32 | 63.48 | 1007.99 | 960.82 | 21.37 | |
| 5600.00 | 5447.06 | 20.88 | 144.12 | 5154.60 | 35.15 | 16.66 | 63.70 | 1025.32 | 977.01 | 21.22 | |
| 5700.00 | 5545.48 | 20.88 | 144.12 | 5246.55 | 35.89 | 16.99 | 63.90 | 1042.66 | 993.21 | 21.09 | |
| 5800.00 | 5643.89 | 20.88 | 144.12 | 5338.51 | 36.62 | 17.32 | 64.11 | 1060.02 | 1009.43 | 20.96 | |
| 5900.00 | 5742.31 | 20.88 | 144.12 | 5430.46 | 37.36 | 17.65 | 64.30 | 1077.38 | 1025.66 | 20.83 | |
| 6000.00 | 5840.73 | 20.88 | 144.12 | 5522.41 | 38.10 | 17.99 | 64.49 | 1094.76 | 1041.90 | 20.71 | |
| 6100.00 | 5939.14 | 20.88 | 144.12 | 5614.36 | 38.84 | 18.32 | 64.67 | 1112.15 | 1058.15 | 20.60 | |
| 6200.00 | 6037.56 | 20.88 | 144.12 | 5706.31 | 39.57 | 18.65 | 64.84 | 1129.55 | 1074.42 | 20.49 | |
| 6300.00 | 6135.97 | 20.88 | 144.12 | 5798.26 | 40.31 | 18.98 | 65.02 | 1146.95 | 1090.68 | 20.38 | |
| 6400.00 | 6234.39 | 20.88 | 144.12 | 5890.22 | 41.05 | 19.31 | 64.95 | 1164.37 | 1106.95 | 20.28 | |
| 6500.00 | 6332.81 | 20.88 | 144.12 | 5982.17 | 41.79 | 19.65 | 42.50 | 1181.16 | 1123.00 | 20.31 | |
| 6600.00 | 6429.94 | 20.88 | 144.12 | 6072.92 | 42.52 | 19.97 | 350.92 | 1196.66 | 1138.29 | 20.50 | |
| 6700.00 | 6523.89 | 20.88 | 144.12 | 6160.70 | 43.22 | 20.29 | 313.91 | 1211.17 | 1153.14 | 20.87 | |
| 6800.00 | 6612.83 | 20.88 | 144.12 | 6243.80 | 43.89 | 20.59 | 299.11 | 1225.38 | 1168.15 | 21.41 | |
| 6900.00 | 6695.42 | 18.37 | 161.78 | 6321.64 | 44.20 | 20.84 | 291.87 | 1240.27 | 1184.24 | 22.13 | |
| 7000.00 | 6782.97 | 17.91 | 184.36 | 6404.93 | 43.90 | 20.99 | 287.47 | 1256.14 | 1201.54 | 23.00 | |
| 7100.00 | 6877.17 | 20.22 | 206.49 | 6494.08 | 42.98 | 21.02 | 284.34 | 1272.81 | 1219.62 | 23.93 | |
| 7200.00 | 6980.13 | 25.11 | 223.84 | 6589.17 | 41.32 | 20.90 | 281.84 | 1289.99 | 1237.74 | 24.69 | |
| 7300.00 | 7094.61 | 32.11 | 236.27 | 6689.69 | 38.84 | 20.50 | 279.65 | 1307.22 | 1255.66 | 25.35 | |
| 7400.00 | 7224.13 | 40.98 | 245.33 | 6793.72 | 35.54 | 19.63 | 277.58 | 1323.83 | 1272.48 | 25.78 | |
| 7500.00 | 7372.75 | 51.75 | 252.34 | 6896.19 | 31.93 | 17.70 | 275.56 | 1338.86 | 1286.99 | 25.81 | |
| 7600.00 | 7544.03 | 64.53 | 258.19 | 6986.47 | 29.46 | 13.94 | 273.67 | 1351.00 | 1297.41 | 25.21 | |
| 7700.00 | 7738.46 | 79.25 | 263.49 | 7046.79 | 29.30 | 10.51 | 272.12 | 1358.68 | 1301.86 | 23.91 | |
| 7800.00 | 7912.46 | 90.00 | 266.98 | 7060.00 | 30.68 | 12.39 | 271.56 | 1360.00 | 1299.71 | 22.56 | |
| 7900.00 | 8012.46 | 90.00 | 266.98 | 7060.00 | 31.70 | 12.93 | 271.56 | 1359.49 | 1296.89 | 21.72 | |
| 8000.00 | 8112.46 | 90.00 | 266.98 | 7060.00 | 32.92 | 13.51 | 271.56 | 1358.97 | 1293.72 | 20.83 | |
| 8100.00 | 8212.46 | 90.00 | 266.98 | 7060.00 | 34.31 | 14.12 | 271.56 | 1358.46 | 1290.27 | 19.92 | |
| 8200.00 | 8312.46 | 90.00 | 266.98 | 7060.00 | 35.86 | 14.77 | 271.56 | 1357.95 | 1286.41 | 18.98 | |
| 8300.00 | 8412.45 | 90.00 | 266.98 | 7060.00 | 37.55 | 15.43 | 271.56 | 1357.43 | 1282.25 | 18.05 | |
| 8400.00 | 8512.45 | 90.00 | 266.98 | 7060.00 | 39.37 | 16.11 | 271.56 | 1356.92 | 1277.86 | 17.16 | |
| 8500.00 | 8612.45 | 90.00 | 266.98 | 7060.00 | 41.29 | 16.80 | 271.56 | 1356.41 | 1273.30 | 16.32 | |
| 8600.00 | 8712.45 | 90.00 | 266.98 | 7060.00 | 43.31 | 17.49 | 271.56 | 1355.89 | 1268.59 | 15.53 | |
| 8700.00 | 8812.45 | 90.00 | 266.98 | 7060.00 | 45.40 | 18.19 | 271.56 | 1355.38 | 1263.69 | 14.78 | |
| 8800.00 | 8912.45 | 90.00 | 266.98 | 7060.00 | 47.58 | 18.90 | 271.56 | 1354.86 | 1258.83 | 14.11 | |
| 8900.00 | 9012.45 | 90.00 | 266.98 | 7060.00 | 49.81 | 19.60 | 271.57 | 1354.35 | 1253.68 | 13.45 | |
| 9000.00 | 9112.44 | 90.00 | 266.98 | 7060.00 | 52.10 | 20.31 | 271.57 | 1353.84 | 1248.45 | 12.85 | |
| 9100.00 | 9212.44 | 90.00 | 266.98 | 7060.00 | 54.43 | 21.02 | 271.57 | 1353.32 | 1243.15 | 12.28 | |
| 9200.00 | 9312.44 | 90.00 | 266.98 | 7060.00 | 56.81 | 21.73 | 271.57 | 1352.81 | 1237.80 | 11.76 | |
| 9300.00 | 9412.44 | 90.00 | 266.98 | 7060.00 | 59.23 | 22.44 | 271.57 | 1352.30 | 1232.38 | 11.28 | |

5D Anti-Collision Report

| Secondary Well: Goetzel 34C-30-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
|---|-------------------|------------|-----------|----------------|--------------------|--------------------|-------------------------|---------------|---------------|-------|------|
| Pri MD (US ft) | Sec MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Risk |
| 9400.00 | 9512.44 | 90.00 | 266.98 | 7060.00 | 61.68 | 23.15 | 271.57 | 1351.78 | 1226.91 | 10.83 | |
| 9500.00 | 9612.44 | 90.00 | 266.98 | 7060.00 | 64.16 | 23.86 | 271.57 | 1351.27 | 1221.40 | 10.40 | |
| 9600.00 | 9712.44 | 90.00 | 266.98 | 7060.00 | 66.66 | 24.57 | 271.57 | 1350.76 | 1215.85 | 10.01 | |
| 9700.00 | 9812.44 | 90.00 | 266.98 | 7060.00 | 69.19 | 25.28 | 271.57 | 1350.24 | 1210.26 | 9.65 | |
| 9800.00 | 9912.43 | 90.00 | 266.98 | 7060.00 | 71.73 | 25.99 | 271.57 | 1349.73 | 1204.63 | 9.30 | |
| 9900.00 | 10012.43 | 90.00 | 266.98 | 7060.00 | 74.30 | 26.71 | 271.57 | 1349.22 | 1198.92 | 8.98 | |
| 10000.00 | 10112.43 | 90.00 | 266.98 | 7060.00 | 76.88 | 27.42 | 271.57 | 1348.70 | 1193.18 | 8.67 | |
| 10100.00 | 10212.43 | 90.00 | 266.98 | 7060.00 | 79.48 | 28.13 | 271.57 | 1348.19 | 1187.41 | 8.39 | |
| 10200.00 | 10312.43 | 90.00 | 266.98 | 7060.00 | 82.09 | 28.85 | 271.57 | 1347.67 | 1181.63 | 8.12 | |
| 10300.00 | 10412.43 | 90.00 | 266.98 | 7060.00 | 84.71 | 29.56 | 271.57 | 1347.16 | 1175.82 | 7.86 | |
| 10400.00 | 10512.43 | 90.00 | 266.98 | 7060.00 | 87.34 | 30.27 | 271.57 | 1346.65 | 1169.99 | 7.62 | |
| 10500.00 | 10612.42 | 90.00 | 266.98 | 7060.00 | 89.99 | 30.99 | 271.58 | 1346.13 | 1164.15 | 7.40 | |
| 10600.00 | 10712.42 | 90.00 | 266.98 | 7060.00 | 92.64 | 31.71 | 271.58 | 1345.62 | 1158.30 | 7.18 | |
| 10700.00 | 10812.42 | 90.00 | 266.98 | 7060.00 | 95.30 | 32.42 | 271.58 | 1345.11 | 1152.42 | 6.98 | |
| 10800.00 | 10912.42 | 90.00 | 266.98 | 7060.00 | 97.97 | 33.14 | 271.58 | 1344.59 | 1146.54 | 6.79 | |
| 10900.00 | 11012.42 | 90.00 | 266.98 | 7060.00 | 100.65 | 33.85 | 271.58 | 1344.08 | 1140.64 | 6.61 | |
| 11000.00 | 11112.42 | 90.00 | 266.98 | 7060.00 | 103.33 | 34.57 | 271.58 | 1343.57 | 1134.74 | 6.43 | |
| 11100.00 | 11212.42 | 90.00 | 266.98 | 7060.00 | 106.02 | 35.29 | 271.58 | 1343.05 | 1128.82 | 6.27 | |
| 11200.00 | 11312.42 | 90.00 | 266.98 | 7060.00 | 108.72 | 36.01 | 271.58 | 1342.54 | 1122.89 | 6.11 | |
| 11300.00 | 11412.41 | 90.00 | 266.98 | 7060.00 | 111.42 | 36.73 | 271.58 | 1342.02 | 1116.96 | 5.96 | |
| 11400.00 | 11512.41 | 90.00 | 266.98 | 7060.00 | 114.12 | 37.44 | 271.58 | 1341.51 | 1111.02 | 5.82 | |
| 11500.00 | 11612.41 | 90.00 | 266.98 | 7060.00 | 116.83 | 38.16 | 271.58 | 1341.00 | 1105.07 | 5.68 | |
| 11600.00 | 11712.41 | 90.00 | 266.98 | 7060.00 | 119.55 | 38.88 | 271.58 | 1340.48 | 1099.11 | 5.55 | |
| 11700.00 | 11812.41 | 90.00 | 266.98 | 7060.00 | 122.26 | 39.60 | 271.58 | 1339.97 | 1093.14 | 5.43 | |
| 11800.00 | 11912.41 | 90.00 | 266.98 | 7060.00 | 124.98 | 40.32 | 271.58 | 1339.46 | 1087.17 | 5.31 | |
| 11900.00 | 12012.41 | 90.00 | 266.98 | 7060.00 | 127.71 | 41.05 | 271.58 | 1338.94 | 1081.20 | 5.19 | |
| 12000.00 | 12112.41 | 90.00 | 266.98 | 7060.00 | 130.44 | 41.77 | 271.58 | 1338.43 | 1075.21 | 5.08 | |
| 12100.00 | 12212.40 | 90.00 | 266.98 | 7060.00 | 133.17 | 42.49 | 271.58 | 1337.92 | 1069.23 | 4.98 | |
| 12200.00 | 12312.40 | 90.00 | 266.98 | 7060.00 | 135.90 | 43.21 | 271.59 | 1337.40 | 1063.24 | 4.88 | |
| 12300.00 | 12412.40 | 90.00 | 266.98 | 7060.00 | 138.64 | 43.93 | 271.59 | 1336.89 | 1057.24 | 4.78 | |
| 12400.00 | 12512.40 | 90.00 | 266.98 | 7060.00 | 141.38 | 44.65 | 271.59 | 1336.37 | 1051.24 | 4.69 | |
| 12500.00 | 12612.40 | 90.00 | 266.98 | 7060.00 | 144.12 | 45.38 | 271.59 | 1335.86 | 1045.23 | 4.60 | |
| 12600.00 | 12712.40 | 90.00 | 266.98 | 7060.00 | 146.86 | 46.10 | 271.59 | 1335.35 | 1039.23 | 4.51 | |
| 12700.00 | 12812.40 | 90.00 | 266.98 | 7060.00 | 149.61 | 46.82 | 271.59 | 1334.83 | 1033.21 | 4.43 | |
| 12800.00 | 12912.39 | 90.00 | 266.98 | 7060.00 | 152.35 | 47.55 | 271.59 | 1334.32 | 1027.20 | 4.34 | |
| 12900.00 | 13012.39 | 90.00 | 266.98 | 7060.00 | 155.10 | 48.27 | 271.59 | 1333.81 | 1021.18 | 4.27 | |
| 13000.00 | 13112.39 | 90.00 | 266.98 | 7060.00 | 157.85 | 48.99 | 271.59 | 1333.29 | 1015.16 | 4.19 | |
| 13100.00 | 13212.39 | 90.00 | 266.98 | 7060.00 | 160.61 | 49.72 | 271.59 | 1332.78 | 1009.13 | 4.12 | |
| 13200.00 | 13312.39 | 90.00 | 266.98 | 7060.00 | 163.36 | 50.44 | 271.59 | 1332.27 | 1003.11 | 4.05 | |
| 13300.00 | 13412.39 | 90.00 | 266.98 | 7060.00 | 166.12 | 51.17 | 271.59 | 1331.75 | 997.08 | 3.98 | |
| 13400.00 | 13512.39 | 90.00 | 266.98 | 7060.00 | 168.87 | 51.89 | 271.59 | 1331.24 | 991.04 | 3.91 | |
| 13500.00 | 13612.39 | 90.00 | 266.98 | 7060.00 | 171.63 | 52.62 | 271.59 | 1330.72 | 985.01 | 3.85 | |
| 13600.00 | 13712.38 | 90.00 | 266.98 | 7060.00 | 174.39 | 53.34 | 271.59 | 1330.21 | 978.97 | 3.79 | |
| 13700.00 | 13812.38 | 90.00 | 266.98 | 7060.00 | 177.15 | 54.07 | 271.59 | 1329.70 | 972.93 | 3.73 | |
| 13800.00 | 13912.38 | 90.00 | 266.98 | 7060.00 | 179.92 | 54.79 | 271.60 | 1329.18 | 966.89 | 3.67 | |
| 13900.00 | 14012.38 | 90.00 | 266.98 | 7060.00 | 182.68 | 55.52 | 271.60 | 1328.67 | 960.85 | 3.61 | |
| 14000.00 | 14112.38 | 90.00 | 266.98 | 7060.00 | 185.44 | 56.24 | 271.60 | 1328.16 | 954.80 | 3.56 | |
| 14100.00 | 14212.38 | 90.00 | 266.98 | 7060.00 | 188.21 | 56.97 | 271.60 | 1327.64 | 948.75 | 3.50 | |
| 14200.00 | 14312.38 | 90.00 | 266.98 | 7060.00 | 190.98 | 57.69 | 271.60 | 1327.13 | 942.70 | 3.45 | |
| 14300.00 | 14412.37 | 90.00 | 266.98 | 7060.00 | 193.74 | 58.42 | 271.60 | 1326.62 | 936.65 | 3.40 | |
| 14400.00 | 14512.37 | 90.00 | 266.98 | 7060.00 | 196.51 | 59.15 | 271.60 | 1326.10 | 930.60 | 3.35 | |
| 14500.00 | 14612.37 | 90.00 | 266.98 | 7060.00 | 199.28 | 59.87 | 271.60 | 1325.59 | 924.55 | 3.31 | |
| 14600.00 | 14712.37 | 90.00 | 266.98 | 7060.00 | 202.05 | 60.60 | 271.60 | 1325.07 | 918.49 | 3.26 | |
| 14700.00 | 14812.37 | 90.00 | 266.98 | 7060.00 | 204.82 | 61.33 | 271.60 | 1324.56 | 912.44 | 3.21 | |
| 14800.00 | 14912.37 | 90.00 | 266.98 | 7060.00 | 207.60 | 62.05 | 271.60 | 1324.05 | 906.38 | 3.17 | |
| 14900.00 | 15012.37 | 90.00 | 266.98 | 7060.00 | 210.37 | 62.78 | 271.60 | 1323.53 | 900.32 | 3.13 | |
| 15000.00 | 15112.37 | 90.00 | 266.98 | 7060.00 | 213.14 | 63.51 | 271.60 | 1323.02 | 894.26 | 3.09 | |
| 15100.00 | 15212.36 | 90.00 | 266.98 | 7060.00 | 215.92 | 64.24 | 271.60 | 1322.51 | 888.20 | 3.05 | |

5D Anti-Collision Report

| Secondary Well: Goetzel 34C-30-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | |
|---|-------------------|------------|-----------|----------------|--------------------|--------------------|-------------------------|---------------|---------------|------|------|
| Pri MD (US ft) | Sec MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | S.Major (US ft) | S.Minor (US ft) | T.Face to Sec (°) | CC (US ft) | ES (US ft) | SF | Risk |
| 15200.00 | 15312.36 | 90.00 | 266.98 | 7060.00 | 218.69 | 64.96 | 271.60 | 1321.99 | 882.13 | 3.01 | |
| 15300.00 | 15412.36 | 90.00 | 266.98 | 7060.00 | 221.46 | 65.69 | 271.60 | 1321.48 | 876.07 | 2.97 | |
| 15400.00 | 15512.36 | 90.00 | 266.98 | 7060.00 | 224.24 | 66.42 | 271.61 | 1320.97 | 870.01 | 2.93 | |
| 15500.00 | 15612.36 | 90.00 | 266.98 | 7060.00 | 227.02 | 67.15 | 271.61 | 1320.45 | 863.94 | 2.89 | |
| 15600.00 | 15712.36 | 90.00 | 266.98 | 7060.00 | 229.79 | 67.88 | 271.61 | 1319.94 | 857.87 | 2.86 | |
| 15600.60 | 15712.96 | 90.00 | 266.98 | 7060.00 | 229.81 | 67.88 | 271.61 | 1319.94 | 857.84 | 2.86 | |