

**5D Plan Report**

Synergy Resources

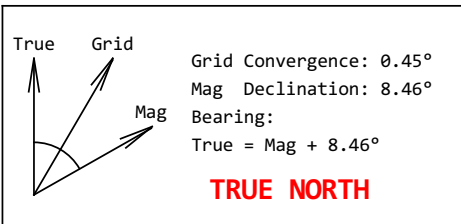
Field Name: *CO N - NAD 83*
Site Name: *Goetzel 25-29 Pad*
Well Name: *Goetzel 34C-30-M*
Plan: *P1:V1*

5 December 2016





Goetzel 34C-30-M
Weld County, CO
Precision 562



Plan Data for Goetzel 34C-30-M

Plan Point Information:

| MD | Inc | Az | TVD | +N/-S | +E/-W | VSec | DLS | Toolface |
|----------|-------|--------|---------|----------|----------|---------|--------|----------|
| (USft) | (°) | (°) | (USft) | (USft) | (USft) | (USft) | (DLSU) | (°) |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -0.00 | -0.00 | 0.00 | 0.0 |
| 300.00 | 0.00 | 0.00 | 300.00 | 0.00 | -0.00 | -0.00 | 0.00 | 0.0 |
| 1344.10 | 20.88 | 144.57 | 1321.14 | -153.32 | 109.10 | -57.81 | 2.00 | 144.6 |
| 6615.25 | 20.88 | 144.57 | 6246.06 | -1684.18 | 1198.42 | -635.03 | 0.00 | 0.0 |
| 7879.64 | 90.00 | 267.42 | 7060.00 | -1976.33 | 508.17 | 111.17 | 8.00 | 121.1 |
| 15768.80 | 90.00 | 267.42 | 7060.00 | -2330.79 | -7373.01 | 7732.65 | 0.00 | 0.0 |

Target Set Information:

Name: Goetzel 34C-30-M

Position offsets from Slot centre

| Name | TVD | +N/-S | +E/-W | Northing | Easting | Lat | Long |
|---------------|---------|----------|----------|------------|------------|-----------|-------------|
| (USft) | (USft) | (USft) | (USft) | (USft) | (°) | (°) | |
| LP 34C-30-M | 7060.00 | -1976.33 | 508.17 | 1408290.72 | 3194161.27 | 40.452063 | -104.802315 |
| PBHL 34C-30-M | 7060.00 | -2330.79 | -7373.01 | 1407874.42 | 3186283.11 | 40.451087 | -104.830634 |

Plan Data for Goetzel 34C-30-M

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

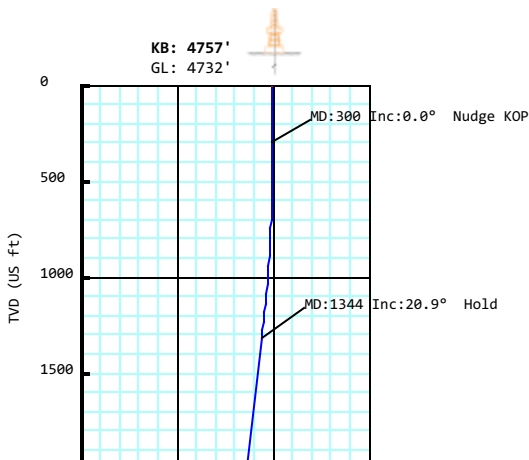
Site: Goetzel 25-29 Pad
Unit: USFeet
TVD Reference:
Company Name: Synergy Resources
Position: Northing: 1410483.05USft Latitude: 40.458092°
Easting: 3193637.83USft Longitude: -104.804134°
North Reference: True
Grid Convergence: 0.45°
Elevation Above VRD: 4732.00USft

Slot: Goetzel 34C-30-M
Position:
Offset is from Site centre
+N/-S: -220.04USft Northing: 1410263.00USft Latitude: 40.457488°
+E/-W: -1.95USft Easting: 3193637.61USft Longitude: -104.804141°
Elevation Above VRD: 4732.00USft

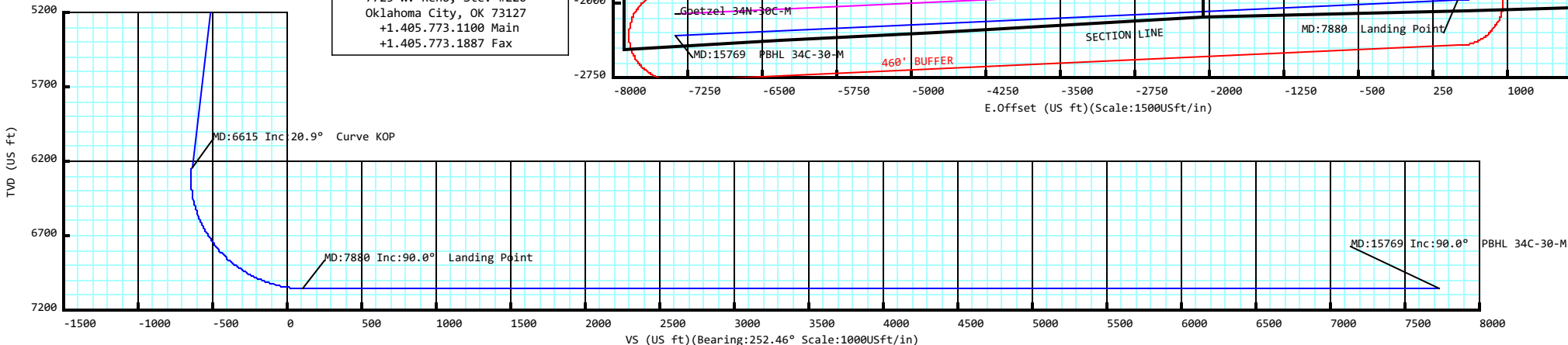
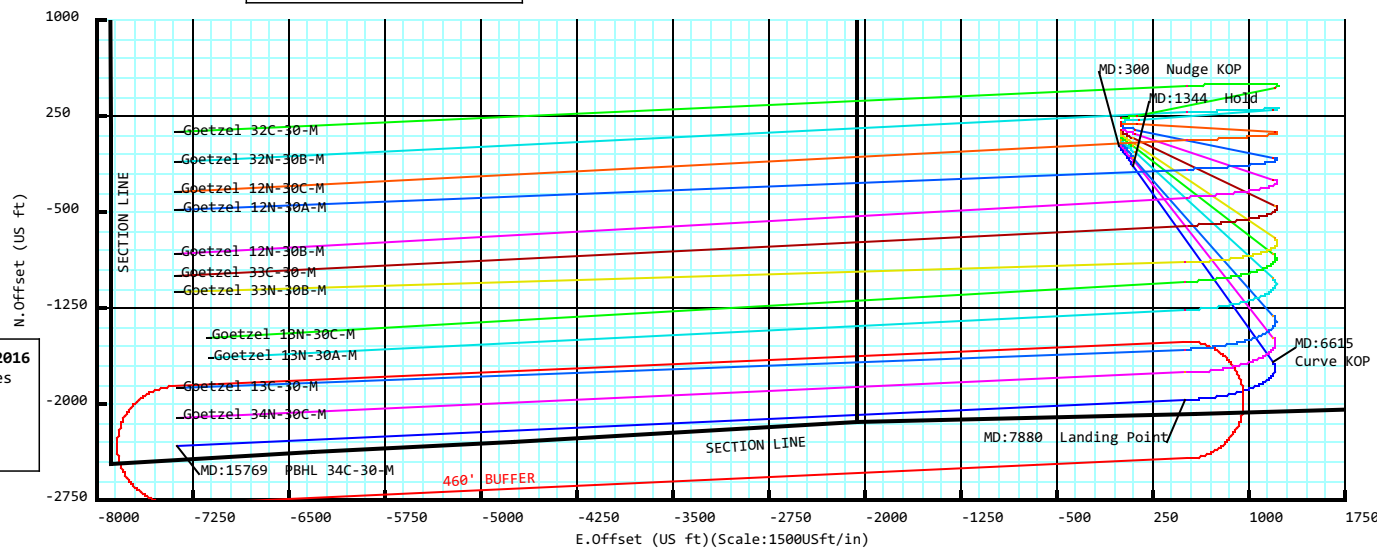
Well: Goetzel 34C-30-M
Type: Main-Well
File Number:
Plan Folder: P1
Plan: P1:V1
Vertical Section: Position offset of origin from Slot centre:
+N/-S: 0.00USft
+E/-W: 0.00USft
Magnetic Parameters:
Model: Field Strength: Declination: Dip: Date:
bggm2016 52524(nT) 8.46° 66.93° 2016-11-18



| | |
|-------------------|--|
| Goetzel 34C-30-M | |
| 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 | |



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 34C-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 34C-30-M | Position (Relative to Site Centre) | | | | | | |
| | +N/-S: -220.04 US ft | | Northing: 1410263.00 US ft | | Latitude: 40.457488000 | | |
| | +E/-W: -1.95 US ft | | Easting: 3193637.61 US ft | | Longitude: -104.804141000 | | |
| | Slot TVD Reference: Ground Elevation | | | | | | |
| | Elevation above MSL: 4732.00 US ft | | | | | | |
| Comment: | | | | | | | |
| Well: Goetzel 34C-30-M | Type:Main well | | UWI: | | Plan:P1:V1 | | |
| | File Number: | Comment: | | | | | |
| | Closure Distance:7732.65US ft | | Closure Azimuth:252.46° | | | | |
| | Vertical Section: Position of Origin (Relative to Slot centre) | | | | | | |
| | +N/-S: 0.00 US ft | | +E/-W: 0.00 US ft | | Az: 252.46° | | |
| | Magnetic Parameters: | | | | | | |
| | Model: bggm2016 | Field Strength: 52524.5nT | | Declination: 8.46° | | Dip: 66.93° | Date: 18/Nov/2016 |
| | | | | | | | |

| | | | |
|--|---|---------------------------|-----------------------|
| Drill floor: Plan: P1:V1 | | | |
| Rig Height (Drill Floor): 25.00 US ft | Elevation above MSL: 4757.00 US ft | Inclination: 0.00° | Azimuth: 0.00° |

| Target set: Goetzel 34C-30-M Comment: | | | | | | | |
|--|--------|-------------|------------------|------------------|------------------|-----------------|---------|
| Target Name: | Shape: | TVD (US ft) | N.Offset (US ft) | E.Offset (US ft) | Northing (US ft) | Easting (US ft) | Comment |
| LP 34C-30-M | Point | 7060.00 | -1976.33 | 508.17 | 1408290.72 | 3194161.27 | |
| PBHL 34C-30-M | Point | 7060.00 | -2330.79 | -7373.01 | 1407874.42 | 3186283.11 | |

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 | |
| 300.00 | 0.00 | 0.00 | 300.00 | -0.00 | 0.00 | -0.00 | 0.00 | 0.00 | 0.00 | Nudge KOP |
| 1344.10 | 20.88 | 144.57 | 1321.14 | -57.81 | -153.32 | 109.10 | 2.00 | 0.00 | 2.00 | Hold |
| 6615.25 | 20.88 | 144.57 | 6246.06 | -635.03 | -1684.18 | 1198.42 | 0.00 | 0.00 | 0.00 | Curve KOP |
| 7879.64 | 90.00 | 267.42 | 7060.00 | 111.17 | -1976.33 | 508.17 | 5.47 | 9.72 | 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 |
| 15768.80 | 90.00 | 267.42 | 7060.00 | 7732.65 | -2330.79 | -7373.01 | 0.00 | 0.00 | 0.00 | PBHL 34C-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 | 2.00 | 144.57 | 399.98 | -0.54 | -1.42 | 1.01 | 2.00 | 0.00 | 2.00 | Nudge KOP |
| 500.00 | 4.00 | 144.57 | 499.84 | -2.14 | -5.69 | 4.05 | 2.00 | 0.00 | 2.00 | |
| 600.00 | 6.00 | 144.57 | 599.45 | -4.82 | -12.79 | 9.10 | 2.00 | -0.00 | 2.00 | |
| 700.00 | 8.00 | 144.57 | 698.70 | -8.57 | -22.72 | 16.16 | 2.00 | 0.00 | 2.00 | |
| 800.00 | 10.00 | 144.57 | 797.47 | -13.37 | -35.46 | 25.23 | 2.00 | -0.00 | 2.00 | |
| 900.00 | 12.00 | 144.57 | 895.62 | -19.23 | -51.01 | 36.30 | 2.00 | 0.00 | 2.00 | |
| 1000.00 | 14.00 | 144.57 | 993.06 | -26.14 | -69.33 | 49.34 | 2.00 | 0.00 | 2.00 | |
| 1100.00 | 16.00 | 144.57 | 1089.64 | -34.09 | -90.42 | 64.34 | 2.00 | -0.00 | 2.00 | |
| 1200.00 | 18.00 | 144.57 | 1185.27 | -43.08 | -114.24 | 81.29 | 2.00 | 0.00 | 2.00 | |
| 1300.00 | 20.00 | 144.57 | 1279.82 | -53.08 | -140.77 | 100.17 | 2.00 | -0.00 | 2.00 | |
| 1344.10 | 20.88 | 144.57 | 1321.14 | -57.81 | -153.32 | 109.10 | 2.00 | 0.00 | 2.00 | Hold |
| 1400.00 | 20.88 | 144.57 | 1373.37 | -63.93 | -169.55 | 120.65 | 0.00 | 0.00 | 0.00 | |
| 1500.00 | 20.88 | 144.57 | 1466.80 | -74.88 | -198.59 | 141.31 | 0.00 | 0.00 | 0.00 | |
| 1600.00 | 20.88 | 144.57 | 1560.23 | -85.83 | -227.64 | 161.98 | 0.00 | 0.00 | 0.00 | |
| 1700.00 | 20.88 | 144.57 | 1653.66 | -96.78 | -256.68 | 182.64 | 0.00 | 0.00 | 0.00 | |
| 1800.00 | 20.88 | 144.57 | 1747.09 | -107.73 | -285.72 | 203.31 | 0.00 | 0.00 | 0.00 | |
| 1900.00 | 20.88 | 144.57 | 1840.52 | -118.68 | -314.76 | 223.98 | 0.00 | 0.00 | 0.00 | |
| 2000.00 | 20.88 | 144.57 | 1933.96 | -129.63 | -343.81 | 244.64 | 0.00 | 0.00 | 0.00 | |
| 2100.00 | 20.88 | 144.57 | 2027.39 | -140.58 | -372.85 | 265.31 | 0.00 | 0.00 | 0.00 | |
| 2200.00 | 20.88 | 144.57 | 2120.82 | -151.53 | -401.89 | 285.97 | 0.00 | 0.00 | 0.00 | |
| 2300.00 | 20.88 | 144.57 | 2214.25 | -162.48 | -430.93 | 306.64 | 0.00 | 0.00 | 0.00 | |
| 2400.00 | 20.88 | 144.57 | 2307.68 | -173.44 | -459.97 | 327.30 | 0.00 | 0.00 | 0.00 | |
| 2500.00 | 20.88 | 144.57 | 2401.11 | -184.39 | -489.02 | 347.97 | 0.00 | 0.00 | 0.00 | |
| 2600.00 | 20.88 | 144.57 | 2494.55 | -195.34 | -518.06 | 368.64 | 0.00 | 0.00 | 0.00 | |
| 2700.00 | 20.88 | 144.57 | 2587.98 | -206.29 | -547.10 | 389.30 | 0.00 | 0.00 | 0.00 | |
| 2800.00 | 20.88 | 144.57 | 2681.41 | -217.24 | -576.14 | 409.97 | 0.00 | 0.00 | 0.00 | |
| 2900.00 | 20.88 | 144.57 | 2774.84 | -228.19 | -605.19 | 430.63 | 0.00 | 0.00 | 0.00 | |
| 3000.00 | 20.88 | 144.57 | 2868.27 | -239.14 | -634.23 | 451.30 | 0.00 | 0.00 | 0.00 | |
| 3100.00 | 20.88 | 144.57 | 2961.70 | -250.09 | -663.27 | 471.96 | 0.00 | 0.00 | 0.00 | |
| 3200.00 | 20.88 | 144.57 | 3055.14 | -261.04 | -692.31 | 492.63 | 0.00 | 0.00 | 0.00 | |
| 3300.00 | 20.88 | 144.57 | 3148.57 | -271.99 | -721.36 | 513.30 | 0.00 | 0.00 | 0.00 | |
| 3400.00 | 20.88 | 144.57 | 3242.00 | -282.94 | -750.40 | 533.96 | 0.00 | 0.00 | 0.00 | |
| 3500.00 | 20.88 | 144.57 | 3335.43 | -293.89 | -779.44 | 554.63 | 0.00 | 0.00 | 0.00 | |
| 3600.00 | 20.88 | 144.57 | 3428.86 | -304.84 | -808.48 | 575.29 | 0.00 | 0.00 | 0.00 | |
| 3700.00 | 20.88 | 144.57 | 3522.29 | -315.79 | -837.53 | 595.96 | 0.00 | 0.00 | 0.00 | |
| 3800.00 | 20.88 | 144.57 | 3615.73 | -326.74 | -866.57 | 616.62 | 0.00 | 0.00 | 0.00 | |
| 3900.00 | 20.88 | 144.57 | 3709.16 | -337.69 | -895.61 | 637.29 | 0.00 | 0.00 | 0.00 | |
| 4000.00 | 20.88 | 144.57 | 3802.59 | -348.64 | -924.65 | 657.96 | 0.00 | 0.00 | 0.00 | |
| 4100.00 | 20.88 | 144.57 | 3896.02 | -359.59 | -953.69 | 678.62 | 0.00 | 0.00 | 0.00 | |
| 4200.00 | 20.88 | 144.57 | 3989.45 | -370.54 | -982.74 | 699.29 | 0.00 | 0.00 | 0.00 | |
| 4300.00 | 20.88 | 144.57 | 4082.88 | -381.50 | -1011.78 | 719.95 | 0.00 | 0.00 | 0.00 | |
| 4400.00 | 20.88 | 144.57 | 4176.32 | -392.45 | -1040.82 | 740.62 | 0.00 | 0.00 | 0.00 | |
| 4500.00 | 20.88 | 144.57 | 4269.75 | -403.40 | -1069.86 | 761.28 | 0.00 | 0.00 | 0.00 | |
| 4600.00 | 20.88 | 144.57 | 4363.18 | -414.35 | -1098.91 | 781.95 | 0.00 | 0.00 | 0.00 | |
| 4700.00 | 20.88 | 144.57 | 4456.61 | -425.30 | -1127.95 | 802.62 | 0.00 | 0.00 | 0.00 | |
| 4800.00 | 20.88 | 144.57 | 4550.04 | -436.25 | -1156.99 | 823.28 | 0.00 | 0.00 | 0.00 | |
| 4900.00 | 20.88 | 144.57 | 4643.47 | -447.20 | -1186.03 | 843.95 | 0.00 | 0.00 | 0.00 | |
| 5000.00 | 20.88 | 144.57 | 4736.91 | -458.15 | -1215.08 | 864.61 | 0.00 | 0.00 | 0.00 | |
| 5100.00 | 20.88 | 144.57 | 4830.34 | -469.10 | -1244.12 | 885.28 | 0.00 | 0.00 | 0.00 | |
| 5200.00 | 20.88 | 144.57 | 4923.77 | -480.05 | -1273.16 | 905.94 | 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) | |
| 5300.00 | 20.88 | 144.57 | 5017.20 | -491.00 | -1302.20 | 926.61 | 0.00 | 0.00 | 0.00 | |
| 5400.00 | 20.88 | 144.57 | 5110.63 | -501.95 | -1331.25 | 947.27 | 0.00 | 0.00 | 0.00 | |
| 5500.00 | 20.88 | 144.57 | 5204.06 | -512.90 | -1360.29 | 967.94 | 0.00 | 0.00 | 0.00 | |
| 5600.00 | 20.88 | 144.57 | 5297.50 | -523.85 | -1389.33 | 988.61 | 0.00 | 0.00 | 0.00 | |
| 5700.00 | 20.88 | 144.57 | 5390.93 | -534.80 | -1418.37 | 1009.27 | 0.00 | 0.00 | 0.00 | |
| 5800.00 | 20.88 | 144.57 | 5484.36 | -545.75 | -1447.42 | 1029.94 | 0.00 | 0.00 | 0.00 | |
| 5900.00 | 20.88 | 144.57 | 5577.79 | -556.70 | -1476.46 | 1050.60 | 0.00 | 0.00 | 0.00 | |
| 6000.00 | 20.88 | 144.57 | 5671.22 | -567.65 | -1505.50 | 1071.27 | 0.00 | 0.00 | 0.00 | |
| 6100.00 | 20.88 | 144.57 | 5764.65 | -578.61 | -1534.54 | 1091.93 | 0.00 | 0.00 | 0.00 | |
| 6200.00 | 20.88 | 144.57 | 5858.09 | -589.56 | -1563.58 | 1112.60 | 0.00 | 0.00 | 0.00 | |
| 6300.00 | 20.88 | 144.57 | 5951.52 | -600.51 | -1592.63 | 1133.27 | 0.00 | 0.00 | 0.00 | |
| 6400.00 | 20.88 | 144.57 | 6044.95 | -611.46 | -1621.67 | 1153.93 | 0.00 | 0.00 | 0.00 | |
| 6500.00 | 20.88 | 144.57 | 6138.38 | -622.41 | -1650.71 | 1174.60 | 0.00 | 0.00 | 0.00 | |
| 6600.00 | 20.88 | 144.57 | 6231.81 | -633.36 | -1679.75 | 1195.26 | 0.00 | 0.00 | 0.00 | |
| 6615.25 | 20.88 | 144.57 | 6246.06 | -635.03 | -1684.18 | 1198.42 | 0.00 | 0.00 | 0.00 | Curve KOP |
| 6700.00 | 18.28 | 163.36 | 6325.98 | -639.46 | -1709.25 | 1210.99 | -3.07 | 22.18 | 8.00 | |
| 6800.00 | 18.12 | 189.16 | 6421.13 | -632.21 | -1739.69 | 1213.01 | -0.16 | 25.80 | 8.00 | |
| 6900.00 | 21.13 | 211.42 | 6515.44 | -611.59 | -1770.48 | 1201.12 | 3.01 | 22.25 | 8.00 | |
| 7000.00 | 26.24 | 226.87 | 6607.08 | -578.01 | -1801.02 | 1175.55 | 5.11 | 15.45 | 8.00 | |
| 7100.00 | 32.47 | 237.18 | 6694.25 | -532.10 | -1830.73 | 1136.79 | 6.23 | 10.31 | 8.00 | |
| 7200.00 | 39.28 | 244.36 | 6775.27 | -474.77 | -1859.02 | 1085.62 | 6.82 | 7.18 | 8.00 | |
| 7300.00 | 46.43 | 249.67 | 6848.56 | -407.14 | -1885.35 | 1023.01 | 7.14 | 5.31 | 8.00 | |
| 7400.00 | 53.76 | 253.84 | 6912.68 | -330.52 | -1909.19 | 950.18 | 7.34 | 4.17 | 8.00 | |
| 7500.00 | 61.22 | 257.29 | 6966.40 | -246.40 | -1930.10 | 868.57 | 7.46 | 3.44 | 8.00 | |
| 7600.00 | 68.75 | 260.27 | 7008.67 | -156.42 | -1947.65 | 779.75 | 7.53 | 2.98 | 8.00 | |
| 7700.00 | 76.33 | 262.95 | 7038.66 | -62.33 | -1961.51 | 685.45 | 7.58 | 2.69 | 8.00 | |
| 7800.00 | 83.93 | 265.47 | 7055.79 | 34.04 | -1971.41 | 587.51 | 7.61 | 2.52 | 8.00 | |
| 7879.64 | 90.00 | 267.42 | 7060.00 | 111.17 | -1976.33 | 508.17 | 7.62 | 2.45 | 8.00 | Landing Point |
| 7900.00 | 90.00 | 267.42 | 7060.00 | 130.84 | -1977.24 | 487.83 | 0.00 | 0.00 | 0.00 | |
| 8000.00 | 90.00 | 267.42 | 7060.00 | 227.45 | -1981.74 | 387.94 | 0.00 | 0.00 | 0.00 | |
| 8100.00 | 90.00 | 267.42 | 7060.00 | 324.05 | -1986.23 | 288.04 | 0.00 | 0.00 | 0.00 | |
| 8200.00 | 90.00 | 267.42 | 7060.00 | 420.66 | -1990.72 | 188.14 | 0.00 | 0.00 | 0.00 | |
| 8300.00 | 90.00 | 267.42 | 7060.00 | 517.27 | -1995.22 | 88.24 | 0.00 | 0.00 | 0.00 | |
| 8400.00 | 90.00 | 267.42 | 7060.00 | 613.87 | -1999.71 | -11.66 | 0.00 | 0.00 | 0.00 | |
| 8500.00 | 90.00 | 267.42 | 7060.00 | 710.48 | -2004.20 | -111.56 | 0.00 | 0.00 | 0.00 | |
| 8600.00 | 90.00 | 267.42 | 7060.00 | 807.09 | -2008.70 | -211.46 | 0.00 | 0.00 | 0.00 | |
| 8700.00 | 90.00 | 267.42 | 7060.00 | 903.70 | -2013.19 | -311.36 | 0.00 | 0.00 | 0.00 | |
| 8800.00 | 90.00 | 267.42 | 7060.00 | 1000.30 | -2017.68 | -411.26 | 0.00 | 0.00 | 0.00 | |
| 8900.00 | 90.00 | 267.42 | 7060.00 | 1096.91 | -2022.17 | -511.16 | 0.00 | 0.00 | 0.00 | |
| 9000.00 | 90.00 | 267.42 | 7060.00 | 1193.52 | -2026.67 | -611.05 | 0.00 | 0.00 | 0.00 | |
| 9100.00 | 90.00 | 267.42 | 7060.00 | 1290.12 | -2031.16 | -710.95 | 0.00 | 0.00 | 0.00 | |
| 9200.00 | 90.00 | 267.42 | 7060.00 | 1386.73 | -2035.65 | -810.85 | 0.00 | 0.00 | 0.00 | |
| 9300.00 | 90.00 | 267.42 | 7060.00 | 1483.34 | -2040.15 | -910.75 | 0.00 | 0.00 | 0.00 | |
| 9400.00 | 90.00 | 267.42 | 7060.00 | 1579.95 | -2044.64 | -1010.65 | 0.00 | 0.00 | 0.00 | |
| 9500.00 | 90.00 | 267.42 | 7060.00 | 1676.55 | -2049.13 | -1110.55 | 0.00 | 0.00 | 0.00 | |
| 9600.00 | 90.00 | 267.42 | 7060.00 | 1773.16 | -2053.63 | -1210.45 | 0.00 | 0.00 | 0.00 | |
| 9700.00 | 90.00 | 267.42 | 7060.00 | 1869.77 | -2058.12 | -1310.35 | 0.00 | 0.00 | 0.00 | |
| 9800.00 | 90.00 | 267.42 | 7060.00 | 1966.37 | -2062.61 | -1410.25 | 0.00 | 0.00 | 0.00 | |
| 9900.00 | 90.00 | 267.42 | 7060.00 | 2062.98 | -2067.10 | -1510.15 | 0.00 | 0.00 | 0.00 | |
| 10000.00 | 90.00 | 267.42 | 7060.00 | 2159.59 | -2071.60 | -1610.04 | 0.00 | 0.00 | 0.00 | |
| 10100.00 | 90.00 | 267.42 | 7060.00 | 2256.20 | -2076.09 | -1709.94 | 0.00 | 0.00 | 0.00 | |
| 10200.00 | 90.00 | 267.42 | 7060.00 | 2352.80 | -2080.58 | -1809.84 | 0.00 | 0.00 | 0.00 | |
| 10300.00 | 90.00 | 267.42 | 7060.00 | 2449.41 | -2085.08 | -1909.74 | 0.00 | 0.00 | 0.00 | |
| 10400.00 | 90.00 | 267.42 | 7060.00 | 2546.02 | -2089.57 | -2009.64 | 0.00 | 0.00 | 0.00 | |
| 10500.00 | 90.00 | 267.42 | 7060.00 | 2642.62 | -2094.06 | -2109.54 | 0.00 | 0.00 | 0.00 | |
| 10600.00 | 90.00 | 267.42 | 7060.00 | 2739.23 | -2098.56 | -2209.44 | 0.00 | 0.00 | 0.00 | |
| 10700.00 | 90.00 | 267.42 | 7060.00 | 2835.84 | -2103.05 | -2309.34 | 0.00 | 0.00 | 0.00 | |
| 10800.00 | 90.00 | 267.42 | 7060.00 | 2932.44 | -2107.54 | -2409.24 | 0.00 | 0.00 | 0.00 | |
| 10900.00 | 90.00 | 267.42 | 7060.00 | 3029.05 | -2112.04 | -2509.14 | 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) | |
| 11000.00 | 90.00 | 267.42 | 7060.00 | 3125.66 | -2116.53 | -2609.03 | 0.00 | 0.00 | 0.00 | |
| 11100.00 | 90.00 | 267.42 | 7060.00 | 3222.27 | -2121.02 | -2708.93 | 0.00 | 0.00 | 0.00 | |
| 11200.00 | 90.00 | 267.42 | 7060.00 | 3318.87 | -2125.51 | -2808.83 | 0.00 | 0.00 | 0.00 | |
| 11300.00 | 90.00 | 267.42 | 7060.00 | 3415.48 | -2130.01 | -2908.73 | 0.00 | 0.00 | 0.00 | |
| 11400.00 | 90.00 | 267.42 | 7060.00 | 3512.09 | -2134.50 | -3008.63 | 0.00 | 0.00 | 0.00 | |
| 11500.00 | 90.00 | 267.42 | 7060.00 | 3608.69 | -2138.99 | -3108.53 | 0.00 | 0.00 | 0.00 | |
| 11600.00 | 90.00 | 267.42 | 7060.00 | 3705.30 | -2143.49 | -3208.43 | 0.00 | 0.00 | 0.00 | |
| 11700.00 | 90.00 | 267.42 | 7060.00 | 3801.91 | -2147.98 | -3308.33 | 0.00 | 0.00 | 0.00 | |
| 11800.00 | 90.00 | 267.42 | 7060.00 | 3898.52 | -2152.47 | -3408.23 | 0.00 | 0.00 | 0.00 | |
| 11900.00 | 90.00 | 267.42 | 7060.00 | 3995.12 | -2156.97 | -3508.13 | 0.00 | 0.00 | 0.00 | |
| 12000.00 | 90.00 | 267.42 | 7060.00 | 4091.73 | -2161.46 | -3608.03 | 0.00 | 0.00 | 0.00 | |
| 12100.00 | 90.00 | 267.42 | 7060.00 | 4188.34 | -2165.95 | -3707.92 | 0.00 | 0.00 | 0.00 | |
| 12200.00 | 90.00 | 267.42 | 7060.00 | 4284.94 | -2170.44 | -3807.82 | 0.00 | 0.00 | 0.00 | |
| 12300.00 | 90.00 | 267.42 | 7060.00 | 4381.55 | -2174.94 | -3907.72 | 0.00 | 0.00 | 0.00 | |
| 12400.00 | 90.00 | 267.42 | 7060.00 | 4478.16 | -2179.43 | -4007.62 | 0.00 | 0.00 | 0.00 | |
| 12500.00 | 90.00 | 267.42 | 7060.00 | 4574.77 | -2183.92 | -4107.52 | 0.00 | 0.00 | 0.00 | |
| 12600.00 | 90.00 | 267.42 | 7060.00 | 4671.37 | -2188.42 | -4207.42 | 0.00 | 0.00 | 0.00 | |
| 12700.00 | 90.00 | 267.42 | 7060.00 | 4767.98 | -2192.91 | -4307.32 | 0.00 | 0.00 | 0.00 | |
| 12800.00 | 90.00 | 267.42 | 7060.00 | 4864.59 | -2197.40 | -4407.22 | 0.00 | 0.00 | 0.00 | |
| 12900.00 | 90.00 | 267.42 | 7060.00 | 4961.19 | -2201.90 | -4507.12 | 0.00 | 0.00 | 0.00 | |
| 13000.00 | 90.00 | 267.42 | 7060.00 | 5057.80 | -2206.39 | -4607.02 | 0.00 | 0.00 | 0.00 | |
| 13100.00 | 90.00 | 267.42 | 7060.00 | 5154.41 | -2210.88 | -4706.91 | 0.00 | 0.00 | 0.00 | |
| 13200.00 | 90.00 | 267.42 | 7060.00 | 5251.01 | -2215.37 | -4806.81 | 0.00 | 0.00 | 0.00 | |
| 13300.00 | 90.00 | 267.42 | 7060.00 | 5347.62 | -2219.87 | -4906.71 | 0.00 | 0.00 | 0.00 | |
| 13400.00 | 90.00 | 267.42 | 7060.00 | 5444.23 | -2224.36 | -5006.61 | 0.00 | 0.00 | 0.00 | |
| 13500.00 | 90.00 | 267.42 | 7060.00 | 5540.84 | -2228.85 | -5106.51 | 0.00 | 0.00 | 0.00 | |
| 13600.00 | 90.00 | 267.42 | 7060.00 | 5637.44 | -2233.35 | -5206.41 | 0.00 | 0.00 | 0.00 | |
| 13700.00 | 90.00 | 267.42 | 7060.00 | 5734.05 | -2237.84 | -5306.31 | 0.00 | 0.00 | 0.00 | |
| 13800.00 | 90.00 | 267.42 | 7060.00 | 5830.66 | -2242.33 | -5406.21 | 0.00 | 0.00 | 0.00 | |
| 13900.00 | 90.00 | 267.42 | 7060.00 | 5927.26 | -2246.83 | -5506.11 | 0.00 | 0.00 | 0.00 | |
| 14000.00 | 90.00 | 267.42 | 7060.00 | 6023.87 | -2251.32 | -5606.01 | 0.00 | 0.00 | 0.00 | |
| 14100.00 | 90.00 | 267.42 | 7060.00 | 6120.48 | -2255.81 | -5705.90 | 0.00 | 0.00 | 0.00 | |
| 14200.00 | 90.00 | 267.42 | 7060.00 | 6217.09 | -2260.30 | -5805.80 | 0.00 | 0.00 | 0.00 | |
| 14300.00 | 90.00 | 267.42 | 7060.00 | 6313.69 | -2264.80 | -5905.70 | 0.00 | 0.00 | 0.00 | |
| 14400.00 | 90.00 | 267.42 | 7060.00 | 6410.30 | -2269.29 | -6005.60 | 0.00 | 0.00 | 0.00 | |
| 14500.00 | 90.00 | 267.42 | 7060.00 | 6506.91 | -2273.78 | -6105.50 | 0.00 | 0.00 | 0.00 | |
| 14600.00 | 90.00 | 267.42 | 7060.00 | 6603.51 | -2278.28 | -6205.40 | 0.00 | 0.00 | 0.00 | |
| 14700.00 | 90.00 | 267.42 | 7060.00 | 6700.12 | -2282.77 | -6305.30 | 0.00 | 0.00 | 0.00 | |
| 14800.00 | 90.00 | 267.42 | 7060.00 | 6796.73 | -2287.26 | -6405.20 | 0.00 | 0.00 | 0.00 | |
| 14900.00 | 90.00 | 267.42 | 7060.00 | 6893.34 | -2291.76 | -6505.10 | 0.00 | 0.00 | 0.00 | |
| 15000.00 | 90.00 | 267.42 | 7060.00 | 6989.94 | -2296.25 | -6605.00 | 0.00 | 0.00 | 0.00 | |
| 15100.00 | 90.00 | 267.42 | 7060.00 | 7086.55 | -2300.74 | -6704.89 | 0.00 | 0.00 | 0.00 | |
| 15200.00 | 90.00 | 267.42 | 7060.00 | 7183.16 | -2305.23 | -6804.79 | 0.00 | 0.00 | 0.00 | |
| 15300.00 | 90.00 | 267.42 | 7060.00 | 7279.76 | -2309.73 | -6904.69 | 0.00 | 0.00 | 0.00 | |
| 15400.00 | 90.00 | 267.42 | 7060.00 | 7376.37 | -2314.22 | -7004.59 | 0.00 | 0.00 | 0.00 | |
| 15500.00 | 90.00 | 267.42 | 7060.00 | 7472.98 | -2318.71 | -7104.49 | 0.00 | 0.00 | 0.00 | |
| 15600.00 | 90.00 | 267.42 | 7060.00 | 7569.59 | -2323.21 | -7204.39 | 0.00 | 0.00 | 0.00 | |
| 15700.00 | 90.00 | 267.42 | 7060.00 | 7666.19 | -2327.70 | -7304.29 | 0.00 | 0.00 | 0.00 | |
| 15768.80 | 90.00 | 267.42 | 7060.00 | 7732.65 | -2330.79 | -7373.01 | 0.00 | 0.00 | 0.00 | PBHL 34C-30-M |



Synergy Resources

Field Name: *CO N - NAD 83*
Site Name: *Goetzel 25-29 Pad*
Well Name: *Goetzel 34C-30-M*

5 December 2016

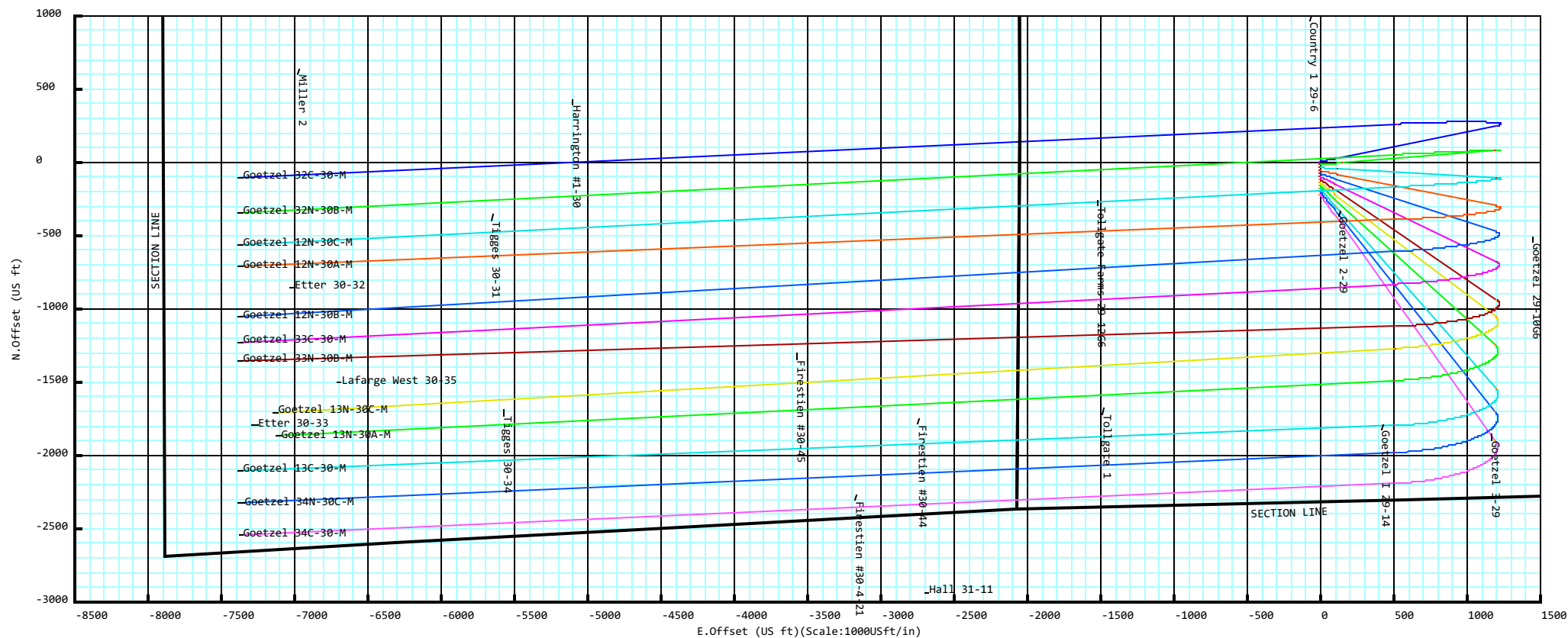




Goetzel Pad
Weld County, CO
Precision 562

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 | |



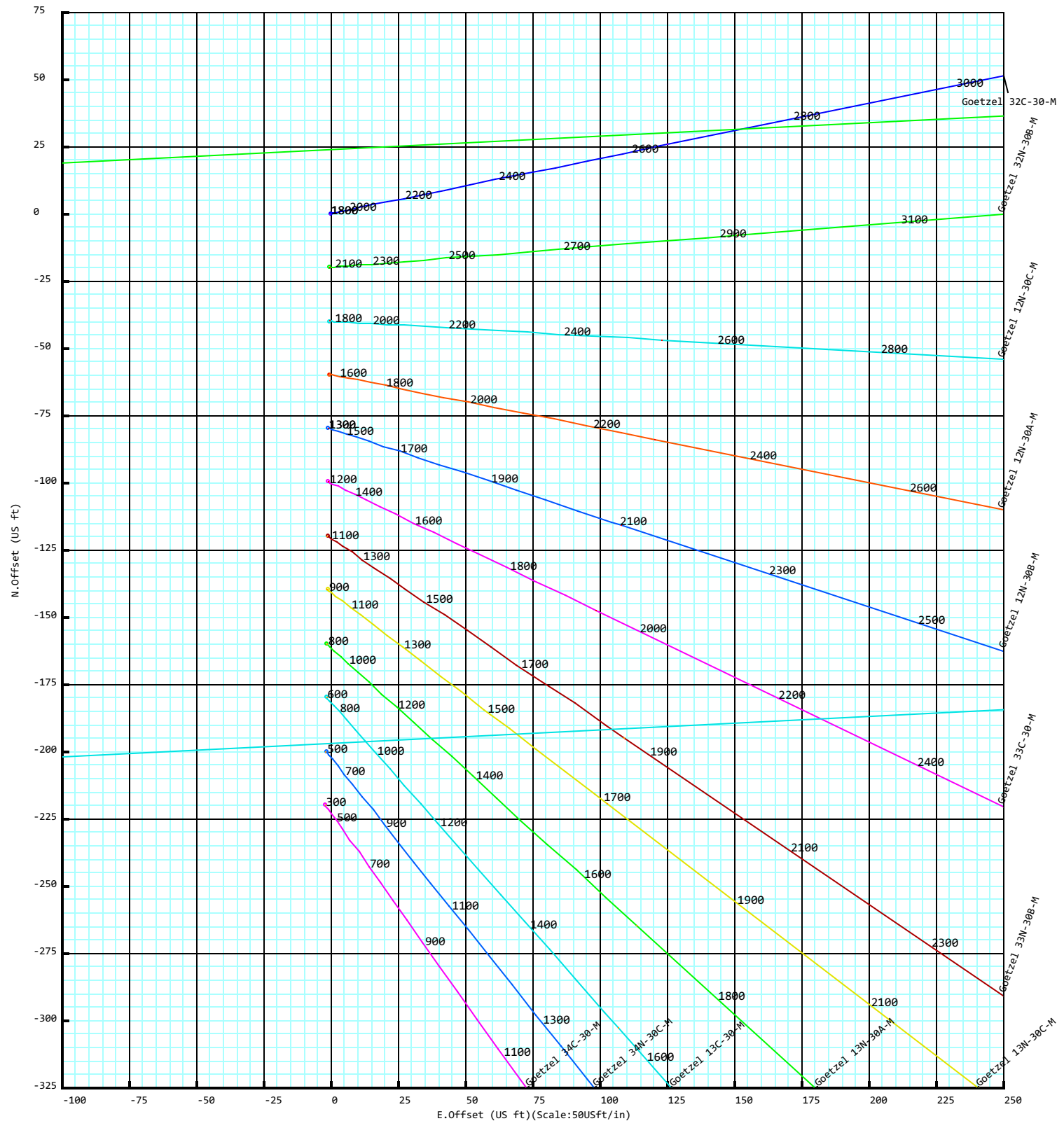


Goetzl Pad
Weld County, CO
Precision 562

- 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 34C-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 34C-30-M | Position (Relative to Site Centre) | | | |
| | +N/-S: -220.04 US ft | Northing: 1410263.00 US ft | | Latitude: 40.457488000 |
| | +E/-W: -1.95 US ft | Easting: 3193637.61 US ft | | Longitude: -104.804141000 |
| | Slot TVD Reference: Ground Elevation | | | |
| | Elevation above MSL: 4732.00 US ft | | | |
| | Comment: | | | |
| Well: Goetzel 34C-30-M | Type:Main well | | UWI: | Plan:Working Plan |
| | File Number: | Comment: | | |
| | Closure Distance:7732.65US ft | | Closure Azimuth:252.46° | |
| | Vertical Section: Position of Origin (Relative to Slot centre) | | | |
| | +N/-S: 0.00 US ft | | +E/-W: 0.00 US ft | Az: 252.46° |
| | Magnetic Parameters: | | | |
| | Model: bggm2016 | Field Strength: 52524.5nT | 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 34C-30-M (p) | 0.00 | 15768.80 | 100.00 | 2 |

Secondary Well Names:

Goetzel 2-29 (s)
 Lafarge West 30-35 (s)
 Tigges 30-34 (s)
 Firestien #30-44 (s)
 Tollgate 1 (s)
 Etter 30-33 (s)
 Goetzel I 29-14 (s)
 Firestien #30-4-21 (s)
 Goetzel 3-29 (s)
 Von Trotha Bros Inc #1 (s)
 Hall 31-11 (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 33C-30-M (p)

Secondary Well Names:

Goetzel 33N-30B-M (p)
 Goetzel 13N-30C-M (p)
 Goetzel 13N-30A-M (p)
 Goetzel 13C-30-M (p)
 Goetzel 34N-30C-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 3-29 (s) | 6476.37 | 6085.30 | 6116.30 | 2.70 | -222.73 | 0.01 | SF(Hi); CC (Hi) |
| Firestien #30-4-21 (s) | 11546.87 | 7030.00 | 7060.00 | 87.79 | -238.60 | 0.27 | SF(Hi) |
| Goetzel 34N-30C-M (p) | 15759.66 | 15628.29 | 7060.00 | 242.98 | -175.99 | 0.58 | SF(Hi) |
| Goetzel 13C-30-M (p) | 15752.67 | 15700.89 | 7060.00 | 443.03 | -20.05 | 0.96 | SF(Hi) |
| Goetzel 2-29 (s) | 1327.54 | 1277.65 | 1305.65 | 43.82 | 2.47 | 1.06 | SF(Med); CC (Lo) |
| Goetzel I 29-14 (s) | 7965.63 | 7029.00 | 7060.00 | 406.50 | 163.61 | 1.67 | SF(Lo) |
| Etter 30-33 (s) | 15656.64 | 7035.00 | 7060.00 | 753.28 | 313.87 | 1.71 | SF(Lo) |
| Goetzel 13N-30A-M (p) | 15487.50 | 15136.85 | 7060.00 | 716.08 | 298.89 | 1.72 | SF(Lo) |
| Firestien #30-44 (s) | 11110.74 | 7027.00 | 7060.00 | 582.98 | 268.92 | 1.86 | SF(Lo) |
| Goetzel 13N-30C-M (p) | 15490.23 | 15286.68 | 7060.00 | 833.25 | 387.25 | 1.87 | SF(Lo) |
| Hall 31-11 (s) | 11164.26 | 7018.00 | 7060.00 | 599.10 | 282.93 | 1.89 | SF(Lo) |
| Tigges 30-34 (s) | 13945.70 | 7027.00 | 7060.00 | 773.54 | 381.82 | 1.97 | SF(Lo) |
| Tollgate 1 (s) | 9862.89 | 7021.00 | 7060.00 | 599.17 | 318.14 | 2.13 | SF(Lo) |
| Von Trotha Bros Inc #1 (s) | 11249.41 | 7016.00 | 7060.00 | 718.40 | 399.76 | 2.25 | SF(Lo) |
| Lafarge West 30-35 (s) | 15083.01 | 7035.00 | 7060.00 | 1012.11 | 588.75 | 2.39 | SF(Lo) |
| Goetzel 33N-30B-M (p) | 15738.16 | 15456.59 | 7060.00 | 1201.95 | 742.87 | 2.62 | |
| Goetzel 33C-30-M (p) | 15735.20 | 15600.60 | 7060.00 | 1320.12 | 857.83 | 2.86 | |
| Goetzel 12N-30B-M (p) | 15738.70 | 15440.87 | 7060.00 | 1493.70 | 1033.06 | 3.24 | |
| Goetzel 12N-30A-M (p) | 15762.35 | 15322.07 | 7060.00 | 1852.47 | 1393.24 | 4.03 | |
| Goetzel 12N-30C-M (p) | 15766.91 | 15501.26 | 7060.00 | 1984.23 | 1521.19 | 4.29 | |
| Goetzel 32N-30B-M (p) | 15768.80 | 15473.86 | 7060.00 | 2208.07 | 1744.76 | 4.77 | |
| Goetzel 32C-30-M (p) | 15768.80 | 15644.54 | 7060.00 | 2444.36 | 1981.00 | 5.28 | |

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 3-29 (s) | 6476.17 | 6085.12 | 6116.12 | 2.70 | -222.42 | 0.01 | SF(Hi); CC (Hi) |
| Goetzel 34N-30C-M (p) | 50.00 | 50.00 | 50.00 | 20.04 | 19.19 | 23.75 | CC (Med) |
| Goetzel 13C-30-M (p) | 0.00 | 0.00 | 0.00 | 40.08 | 39.34 | 54.65 | CC (Lo) |
| Goetzel 2-29 (s) | 1316.99 | 1267.77 | 1295.77 | 43.67 | 2.75 | 1.07 | SF(Med); CC (Lo) |
| Goetzel 13N-30A-M (p) | 50.00 | 50.00 | 50.00 | 60.11 | 59.27 | 71.25 | CC (Lo) |
| Goetzel 13N-30C-M (p) | 0.00 | 0.00 | 0.00 | 80.15 | 79.42 | 109.30 | |
| Firestien #30-4-21 (s) | 11551.56 | 7030.00 | 7060.00 | 87.67 | -238.54 | 0.27 | SF(Hi) |
| Goetzel 33N-30B-M (p) | 50.00 | 50.00 | 50.00 | 100.19 | 99.34 | 118.76 | |
| Goetzel 33C-30-M (p) | 0.00 | 0.00 | 0.00 | 120.22 | 119.49 | 163.95 | |
| Goetzel 12N-30B-M (p) | 50.00 | 50.00 | 50.00 | 140.26 | 139.42 | 166.26 | |
| Goetzel 12N-30A-M (p) | 50.00 | 50.00 | 50.00 | 160.30 | 159.46 | 190.01 | |
| Goetzel 12N-30C-M (p) | 50.00 | 50.00 | 50.00 | 179.97 | 179.13 | 213.33 | |
| Goetzel 32N-30B-M (p) | 0.00 | 0.00 | 0.00 | 200.01 | 199.28 | 272.75 | |
| Goetzel 32C-30-M (p) | 50.00 | 50.00 | 50.00 | 220.05 | 219.20 | 260.83 | |
| Goetzel I 29-14 (s) | 7939.06 | 7029.00 | 7060.00 | 405.63 | 164.31 | 1.68 | SF(Lo) |
| Firestien #30-44 (s) | 11097.07 | 7027.00 | 7060.00 | 582.82 | 269.02 | 1.86 | SF(Lo) |
| Hall 31-11 (s) | 11113.09 | 7018.00 | 7060.00 | 596.90 | 282.94 | 1.90 | SF(Lo) |
| Tollgate 1 (s) | 9838.48 | 7021.00 | 7060.00 | 598.67 | 318.34 | 2.14 | SF(Lo) |
| Von Trotha Bros Inc #1 (s) | 11184.57 | 7016.00 | 7060.00 | 715.47 | 399.46 | 2.26 | SF(Lo) |
| Etter 30-33 (s) | 15641.60 | 7035.00 | 7060.00 | 753.13 | 313.98 | 1.71 | SF(Lo) |
| Tigges 30-34 (s) | 13927.54 | 7027.00 | 7060.00 | 773.32 | 381.94 | 1.98 | SF(Lo) |
| Lafarge West 30-35 (s) | 15053.32 | 7035.00 | 7060.00 | 1011.68 | 588.86 | 2.39 | SF(Lo) |

| Primary Well: Goetzel 34C-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 | 0.35 | 20.04 | 19.31 | 27.33 | Goetzel 34N-30C-M (p) | CC (Med) |
| 100.00 | 0.00 | 0.00 | 100.00 | 0.11 | 0.11 | 0.35 | 20.04 | 19.08 | 21.01 | Goetzel 34N-30C-M (p) | CC (Med) |
| 200.00 | 0.00 | 0.00 | 200.00 | 0.34 | 0.34 | 0.35 | 20.04 | 18.64 | 14.28 | Goetzel 34N-30C-M (p) | CC (Med) |
| 300.00 | 0.00 | 0.00 | 300.00 | 0.56 | 0.56 | 0.35 | 20.04 | 18.19 | 10.81 | Goetzel 34N-30C-M (p) | CC (Med) |
| 400.00 | 2.00 | 144.12 | 399.98 | 0.77 | 0.76 | 213.49 | 21.47 | 19.19 | 9.42 | Goetzel 34N-30C-M (p) | CC (Med) |
| 500.00 | 4.00 | 144.12 | 499.84 | 0.97 | 0.96 | 207.63 | 25.62 | 22.93 | 9.51 | Goetzel 34N-30C-M (p) | CC (Med) |
| 600.00 | 6.00 | 144.12 | 599.45 | 1.20 | 1.17 | 203.39 | 30.42 | 27.33 | 9.84 | Goetzel 34N-30C-M (p) | CC (Med) |
| 700.00 | 8.00 | 144.12 | 698.70 | 1.48 | 1.39 | 343.69 | 156.94 | 137.10 | 7.91 | Goetzel 2-29 (s) | |
| 700.00 | 8.00 | 144.12 | 698.70 | 1.48 | 1.39 | 200.62 | 35.38 | 31.85 | 10.04 | Goetzel 34N-30C-M (p) | CC (Lo) |
| 800.00 | 10.00 | 144.12 | 797.47 | 1.80 | 1.61 | 341.83 | 141.98 | 118.93 | 6.16 | Goetzel 2-29 (s) | |
| 800.00 | 10.00 | 144.12 | 797.47 | 1.80 | 1.61 | 198.80 | 40.43 | 36.46 | 10.19 | Goetzel 34N-30C-M (p) | CC (Lo) |

5D Anti-Collision Report

| Primary Well: Goetzel 34C-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 |
| 900.00 | 12.00 | 144.12 | 895.62 | 2.18 | 1.85 | 338.95 | 123.96 | 97.65 | 4.71 | Goetzel 2- 29 (s) | |
| 900.00 | 12.00 | 144.12 | 895.62 | 2.18 | 1.85 | 197.64 | 45.54 | 41.09 | 10.24 | Goetzel 34N-30C-M (p) | CC (Lo) |
| 1000.00 | 14.00 | 144.12 | 993.06 | 2.62 | 2.09 | 334.30 | 103.22 | 73.60 | 3.48 | Goetzel 2- 29 (s) | |
| 1000.00 | 14.00 | 144.12 | 993.06 | 2.62 | 2.09 | 196.94 | 50.68 | 45.73 | 10.25 | Goetzel 34N-30C-M (p) | CC (Lo) |
| 1100.00 | 16.00 | 144.12 | 1089.64 | 3.12 | 2.35 | 326.12 | 80.51 | 47.56 | 2.44 | Goetzel 2- 29 (s) | SF(Lo) |
| 1100.00 | 16.00 | 144.12 | 1089.64 | 3.12 | 2.35 | 196.57 | 55.83 | 50.35 | 10.20 | Goetzel 34N-30C-M (p) | CC (Lo) |
| 1200.00 | 18.00 | 144.12 | 1185.27 | 3.69 | 2.62 | 309.91 | 58.15 | 21.75 | 1.60 | Goetzel 2- 29 (s) | SF(Lo); CC (Lo) |
| 1300.00 | 20.00 | 144.12 | 1279.82 | 4.33 | 2.90 | 277.18 | 44.06 | 3.70 | 1.09 | Goetzel 2- 29 (s) | SF(Med); CC (Lo) |
| 1400.00 | 20.88 | 144.12 | 1373.37 | 5.02 | 3.19 | 237.76 | 52.68 | 9.25 | 1.21 | Goetzel 2- 29 (s) | SF(Med); CC (Lo) |
| 1500.00 | 20.88 | 144.12 | 1466.80 | 5.74 | 3.51 | 215.67 | 78.40 | 32.35 | 1.70 | Goetzel 2- 29 (s) | SF(Lo) |
| 1500.00 | 20.88 | 144.12 | 1466.80 | 5.74 | 3.51 | 197.95 | 72.62 | 64.56 | 9.01 | Goetzel 34N-30C-M (p) | |
| 1600.00 | 20.88 | 144.12 | 1560.23 | 6.46 | 3.82 | 204.88 | 109.82 | 60.94 | 2.25 | Goetzel 2- 29 (s) | SF(Lo) |
| 1600.00 | 20.88 | 144.12 | 1560.23 | 6.46 | 3.82 | 199.15 | 73.99 | 65.13 | 8.36 | Goetzel 34N-30C-M (p) | |
| 1700.00 | 20.88 | 144.12 | 1653.66 | 7.19 | 4.14 | 198.91 | 143.23 | 91.33 | 2.76 | Goetzel 2- 29 (s) | |
| 1700.00 | 20.88 | 144.12 | 1653.66 | 7.19 | 4.14 | 200.30 | 75.39 | 65.71 | 7.79 | Goetzel 34N-30C-M (p) | |
| 1800.00 | 20.88 | 144.12 | 1747.09 | 7.92 | 4.46 | 195.20 | 177.51 | 122.56 | 3.23 | Goetzel 2- 29 (s) | |
| 1800.00 | 20.88 | 144.12 | 1747.09 | 7.92 | 4.46 | 201.41 | 76.82 | 66.28 | 7.29 | Goetzel 34N-30C-M (p) | |
| 1900.00 | 20.88 | 144.12 | 1840.52 | 8.65 | 4.78 | 192.68 | 212.24 | 154.31 | 3.66 | Goetzel 2- 29 (s) | |
| 1900.00 | 20.88 | 144.12 | 1840.52 | 8.65 | 4.78 | 202.48 | 78.28 | 66.83 | 6.84 | Goetzel 34N-30C-M (p) | |
| 2000.00 | 20.88 | 144.12 | 1933.96 | 9.39 | 5.11 | 190.87 | 247.23 | 186.22 | 4.05 | Goetzel 2- 29 (s) | |
| 2000.00 | 20.88 | 144.12 | 1933.96 | 9.39 | 5.11 | 203.50 | 79.76 | 67.36 | 6.43 | Goetzel 34N-30C-M (p) | |
| 2100.00 | 20.88 | 144.12 | 2027.39 | 10.13 | 5.44 | 189.51 | 282.38 | 218.20 | 4.40 | Goetzel 2- 29 (s) | |
| 2100.00 | 20.88 | 144.12 | 2027.39 | 10.13 | 5.44 | 204.50 | 81.27 | 67.89 | 6.08 | Goetzel 34N-30C-M (p) | |
| 2200.00 | 20.88 | 144.12 | 2120.82 | 10.87 | 5.77 | 188.45 | 317.65 | 250.30 | 4.72 | Goetzel 2- 29 (s) | |
| 2200.00 | 20.88 | 144.12 | 2120.82 | 10.87 | 5.77 | 205.45 | 82.80 | 68.43 | 5.76 | Goetzel 34N-30C-M (p) | |
| 2300.00 | 20.88 | 144.12 | 2214.25 | 11.61 | 6.10 | 187.60 | 352.99 | 282.48 | 5.01 | Goetzel 2- 29 (s) | |
| 2300.00 | 20.88 | 144.12 | 2214.25 | 11.61 | 6.10 | 206.37 | 84.36 | 68.98 | 5.49 | Goetzel 34N-30C-M (p) | |
| 2400.00 | 20.88 | 144.12 | 2307.68 | 12.36 | 6.43 | 207.25 | 85.93 | 69.51 | 5.23 | Goetzel 34N-30C-M (p) | |
| 2500.00 | 20.88 | 144.12 | 2401.11 | 13.10 | 6.76 | 208.11 | 87.53 | 70.03 | 5.00 | Goetzel 34N-30C-M (p) | |
| 2600.00 | 20.88 | 144.12 | 2494.55 | 13.85 | 7.09 | 208.93 | 89.14 | 70.54 | 4.79 | | |

5D Anti-Collision Report

| Primary Well: Goetzel 34C-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 |
| 2700.00 | 20.88 | 144.12 | 2587.98 | 14.59 | 7.42 | 209.72 | 90.77 | 71.04 | 4.60 | Goetzel 34N-30C-M (p) | |
| 2800.00 | 20.88 | 144.12 | 2681.41 | 15.34 | 7.76 | 210.49 | 92.42 | 71.56 | 4.43 | Goetzel 34N-30C-M (p) | |
| 2900.00 | 20.88 | 144.12 | 2774.84 | 16.08 | 8.09 | 211.23 | 94.08 | 72.08 | 4.28 | Goetzel 34N-30C-M (p) | |
| 3000.00 | 20.88 | 144.12 | 2868.27 | 16.83 | 8.43 | 211.94 | 95.76 | 72.61 | 4.14 | Goetzel 34N-30C-M (p) | |
| 3100.00 | 20.88 | 144.12 | 2961.70 | 17.58 | 8.76 | 212.63 | 97.45 | 73.14 | 4.01 | Goetzel 34N-30C-M (p) | |
| 3200.00 | 20.88 | 144.12 | 3055.14 | 18.32 | 9.09 | 213.29 | 99.16 | 73.68 | 3.89 | Goetzel 34N-30C-M (p) | |
| 3300.00 | 20.88 | 144.12 | 3148.57 | 19.07 | 9.43 | 213.93 | 100.88 | 74.21 | 3.78 | Goetzel 34N-30C-M (p) | |
| 3400.00 | 20.88 | 144.12 | 3242.00 | 19.82 | 9.76 | 214.55 | 102.61 | 74.73 | 3.68 | Goetzel 34N-30C-M (p) | |
| 3500.00 | 20.88 | 144.12 | 3335.43 | 20.57 | 10.10 | 215.15 | 104.36 | 75.25 | 3.59 | Goetzel 34N-30C-M (p) | |
| 3600.00 | 20.88 | 144.12 | 3428.86 | 21.31 | 10.44 | 215.73 | 106.11 | 75.78 | 3.50 | Goetzel 34N-30C-M (p) | |
| 3700.00 | 20.88 | 144.12 | 3522.29 | 22.06 | 10.77 | 216.29 | 107.88 | 76.28 | 3.41 | Goetzel 34N-30C-M (p) | |
| 3800.00 | 20.88 | 144.12 | 3615.73 | 22.81 | 11.11 | 216.84 | 109.65 | 76.79 | 3.34 | Goetzel 34N-30C-M (p) | |
| 3900.00 | 20.88 | 144.12 | 3709.16 | 23.56 | 11.44 | 217.36 | 111.44 | 77.30 | 3.26 | Goetzel 34N-30C-M (p) | |
| 4000.00 | 20.88 | 144.12 | 3802.59 | 24.31 | 11.78 | 217.87 | 113.23 | 77.82 | 3.20 | Goetzel 34N-30C-M (p) | |
| 4100.00 | 20.88 | 144.12 | 3896.02 | 25.06 | 12.12 | 218.36 | 115.03 | 78.34 | 3.13 | Goetzel 34N-30C-M (p) | |
| 4200.00 | 20.88 | 144.12 | 3989.45 | 25.81 | 12.45 | 218.84 | 116.84 | 78.86 | 3.08 | Goetzel 34N-30C-M (p) | |
| 4300.00 | 20.88 | 144.12 | 4082.88 | 26.55 | 12.79 | 219.31 | 118.66 | 79.39 | 3.02 | Goetzel 34N-30C-M (p) | |
| 4400.00 | 20.88 | 144.12 | 4176.32 | 27.30 | 13.13 | 219.75 | 120.49 | 79.92 | 2.97 | Goetzel 34N-30C-M (p) | |
| 4500.00 | 20.88 | 144.12 | 4269.75 | 28.05 | 13.46 | 220.19 | 122.32 | 80.46 | 2.92 | Goetzel 34N-30C-M (p) | |
| 4600.00 | 20.88 | 144.12 | 4363.18 | 28.80 | 13.80 | 220.61 | 124.16 | 81.00 | 2.88 | Goetzel 34N-30C-M (p) | |
| 4700.00 | 20.88 | 144.12 | 4456.61 | 29.55 | 14.14 | 221.02 | 126.01 | 81.54 | 2.83 | Goetzel 34N-30C-M (p) | |
| 4800.00 | 20.88 | 144.12 | 4550.04 | 30.30 | 14.47 | 221.42 | 127.86 | 82.09 | 2.79 | Goetzel 34N-30C-M (p) | |
| 4900.00 | 20.88 | 144.12 | 4643.47 | 31.05 | 14.81 | 221.81 | 129.72 | 82.64 | 2.76 | Goetzel 34N-30C-M (p) | |
| 5000.00 | 20.88 | 144.12 | 4736.91 | 31.80 | 15.15 | 222.19 | 131.59 | 83.20 | 2.72 | Goetzel 34N-30C-M (p) | |
| 5100.00 | 20.88 | 144.12 | 4830.34 | 32.55 | 15.49 | 222.55 | 133.46 | 83.75 | 2.69 | | |

5D Anti-Collision Report

| Primary Well: Goetzel 34C-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 |
| 5200.00 | 20.88 | 144.12 | 4923.77 | 33.30 | 15.82 | 222.91 | 135.33 | 84.32 | 2.65 | Goetzel 34N-30C-M (p) | |
| 5300.00 | 20.88 | 144.12 | 5017.20 | 34.05 | 16.16 | 359.60 | 419.27 | 254.71 | 2.55 | Goetzel 34N-30C-M (p) | |
| 5300.00 | 20.88 | 144.12 | 5017.20 | 34.05 | 16.16 | 223.25 | 137.21 | 84.88 | 2.62 | Goetzel 3- 29 (s) | |
| 5400.00 | 20.88 | 144.12 | 5110.63 | 34.79 | 16.50 | 359.57 | 383.63 | 215.92 | 2.29 | Goetzel 34N-30C-M (p) | |
| 5400.00 | 20.88 | 144.12 | 5110.63 | 34.79 | 16.50 | 223.59 | 139.10 | 85.45 | 2.59 | Goetzel 3- 29 (s) | SF(Lo) |
| 5500.00 | 20.88 | 144.12 | 5204.06 | 35.54 | 16.83 | 359.52 | 347.99 | 177.12 | 2.04 | Goetzel 34N-30C-M (p) | |
| 5500.00 | 20.88 | 144.12 | 5204.06 | 35.54 | 16.83 | 223.92 | 140.99 | 86.00 | 2.56 | Goetzel 3- 29 (s) | SF(Lo) |
| 5600.00 | 20.88 | 144.12 | 5297.50 | 36.29 | 17.17 | 359.47 | 312.34 | 138.32 | 1.79 | Goetzel 34N-30C-M (p) | |
| 5600.00 | 20.88 | 144.12 | 5297.50 | 36.29 | 17.17 | 224.23 | 142.88 | 86.56 | 2.54 | Goetzel 3- 29 (s) | SF(Lo) |
| 5700.00 | 20.88 | 144.12 | 5390.93 | 37.04 | 17.51 | 359.40 | 276.70 | 99.51 | 1.56 | Goetzel 34N-30C-M (p) | |
| 5700.00 | 20.88 | 144.12 | 5390.93 | 37.04 | 17.51 | 224.54 | 144.78 | 87.11 | 2.51 | Goetzel 3- 29 (s) | SF(Lo) |
| 5800.00 | 20.88 | 144.12 | 5484.36 | 37.79 | 17.85 | 359.31 | 241.06 | 60.71 | 1.34 | Goetzel 34N-30C-M (p) | |
| 5800.00 | 20.88 | 144.12 | 5484.36 | 37.79 | 17.85 | 224.85 | 146.68 | 87.67 | 2.49 | Goetzel 3- 29 (s) | SF(Med) |
| 5900.00 | 20.88 | 144.12 | 5577.79 | 38.54 | 18.19 | 359.19 | 205.42 | 21.90 | 1.12 | Goetzel 34N-30C-M (p) | |
| 5900.00 | 20.88 | 144.12 | 5577.79 | 38.54 | 18.19 | 225.14 | 148.59 | 88.23 | 2.46 | Goetzel 3- 29 (s) | SF(Med) |
| 6000.00 | 20.88 | 144.12 | 5671.22 | 39.29 | 18.52 | 359.02 | 169.77 | -16.92 | 0.91 | Goetzel 34N-30C-M (p) | |
| 6000.00 | 20.88 | 144.12 | 5671.22 | 39.29 | 18.52 | 225.43 | 150.50 | 88.79 | 2.44 | Goetzel 3- 29 (s) | SF(Hi) |
| 6100.00 | 20.88 | 144.12 | 5764.65 | 40.04 | 18.86 | 358.76 | 134.14 | -55.75 | 0.71 | Goetzel 34N-30C-M (p) | |
| 6200.00 | 20.88 | 144.12 | 5858.09 | 40.79 | 19.20 | 358.32 | 98.50 | -94.59 | 0.51 | Goetzel 3- 29 (s) | SF(Lo) |
| 6300.00 | 20.88 | 144.12 | 5951.52 | 41.54 | 19.54 | 357.36 | 62.88 | -133.56 | 0.32 | Goetzel 3- 29 (s) | SF(Hi) |
| 6400.00 | 20.88 | 144.12 | 6044.95 | 42.29 | 19.87 | 353.92 | 27.31 | -172.61 | 0.14 | Goetzel 3- 29 (s) | SF(Hi); CC (Lo) |
| 6500.00 | 20.88 | 144.12 | 6138.38 | 43.04 | 20.21 | 198.87 | 8.89 | -196.75 | 0.04 | Goetzel 3- 29 (s) | SF(Hi); CC (Med) |
| 6600.00 | 20.88 | 144.12 | 6231.81 | 43.79 | 20.55 | 183.75 | 44.20 | -161.61 | 0.21 | Goetzel 3- 29 (s) | SF(Hi); CC (Hi) |
| 6700.00 | 18.28 | 162.91 | 6325.98 | 44.20 | 20.85 | 165.68 | 77.59 | -131.69 | 0.37 | Goetzel 3- 29 (s) | SF(Hi); CC (Lo) |
| 6800.00 | 18.12 | 188.71 | 6421.13 | 43.79 | 21.01 | 146.63 | 105.76 | -107.56 | 0.50 | Goetzel 3- 29 (s) | SF(Hi) |
| 6900.00 | 21.13 | 210.97 | 6515.44 | 42.68 | 21.01 | 133.75 | 131.52 | -88.04 | 0.60 | Goetzel 3- 29 (s) | SF(Hi) |
| 7000.00 | 26.24 | 226.42 | 6607.08 | 40.94 | 20.85 | 128.74 | 158.82 | -68.32 | 0.70 | Goetzel 3- 29 (s) | SF(Hi) |
| 7100.00 | 32.47 | 236.73 | 6694.25 | 38.71 | 20.48 | 128.55 | 191.73 | -43.06 | 0.82 | Goetzel 3- 29 (s) | SF(Hi) |
| 7100.00 | 32.47 | 236.73 | 6694.25 | 38.71 | 20.48 | 98.90 | 182.53 | 138.66 | 4.16 | Goetzel 34N-30C-M (p) | |
| 7200.00 | 39.28 | 243.91 | 6775.27 | 36.17 | 19.83 | 130.03 | 233.31 | -8.03 | 0.97 | Goetzel 3- 29 (s) | SF(Hi) |

5D Anti-Collision Report

| Primary Well: Goetzel 34C-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 |
| 7200.00 | 39.28 | 243.91 | 6775.27 | 36.17 | 19.83 | 88.33 | 192.22 | 149.90 | 4.54 | Goetzel 34N-30C-M (p) | |
| 7300.00 | 46.43 | 249.22 | 6848.56 | 33.60 | 18.79 | 131.23 | 285.07 | 38.72 | 1.16 | Goetzel 3- 29 (s) | SF(Med) |
| 7300.00 | 46.43 | 249.22 | 6848.56 | 33.60 | 18.79 | 80.54 | 201.91 | 160.76 | 4.91 | Goetzel 34N-30C-M (p) | |
| 7400.00 | 53.76 | 253.39 | 6912.68 | 31.38 | 17.19 | 131.09 | 347.01 | 96.90 | 1.39 | Goetzel 3- 29 (s) | SF(Med) |
| 7400.00 | 53.76 | 253.39 | 6912.68 | 31.38 | 17.19 | 74.73 | 211.02 | 170.52 | 5.21 | Goetzel 34N-30C-M (p) | |
| 7500.00 | 61.22 | 256.84 | 6966.40 | 29.86 | 15.00 | 128.94 | 418.17 | 166.05 | 1.66 | Goetzel 3- 29 (s) | SF(Lo) |
| 7500.00 | 61.22 | 256.84 | 6966.40 | 29.86 | 15.00 | 70.43 | 219.12 | 178.28 | 5.37 | Goetzel 34N-30C-M (p) | |
| 7600.00 | 68.75 | 259.82 | 7008.67 | 29.14 | 12.57 | 124.08 | 497.04 | 242.95 | 1.96 | Goetzel 3- 29 (s) | SF(Lo) |
| 7600.00 | 68.75 | 259.82 | 7008.67 | 29.14 | 12.57 | 67.33 | 225.88 | 183.73 | 5.36 | Goetzel 34N-30C-M (p) | |
| 7700.00 | 76.33 | 262.50 | 7038.66 | 29.12 | 10.77 | 83.34 | 464.03 | 229.65 | 1.98 | Goetzel I 29-14 (s) | SF(Lo) |
| 7700.00 | 76.33 | 262.50 | 7038.66 | 29.12 | 10.77 | 65.21 | 231.03 | 186.70 | 5.21 | Goetzel 34N-30C-M (p) | |
| 7800.00 | 83.93 | 265.02 | 7055.79 | 29.66 | 10.74 | 88.15 | 427.50 | 191.10 | 1.81 | Goetzel I 29-14 (s) | SF(Lo) |
| 7800.00 | 83.93 | 265.02 | 7055.79 | 29.66 | 10.74 | 63.96 | 234.41 | 186.89 | 4.93 | Goetzel 34N-30C-M (p) | |
| 7900.00 | 90.00 | 266.98 | 7060.00 | 30.55 | 12.33 | 90.00 | 407.52 | 167.59 | 1.70 | Goetzel I 29-14 (s) | SF(Lo) |
| 7900.00 | 90.00 | 266.98 | 7060.00 | 30.55 | 12.33 | 63.55 | 235.73 | 185.24 | 4.67 | Goetzel 34N-30C-M (p) | |
| 8000.00 | 90.00 | 266.98 | 7060.00 | 31.55 | 12.86 | 90.00 | 410.18 | 166.49 | 1.68 | Goetzel I 29-14 (s) | SF(Lo) |
| 8000.00 | 90.00 | 266.98 | 7060.00 | 31.55 | 12.86 | 63.56 | 235.82 | 183.51 | 4.51 | Goetzel 34N-30C-M (p) | |
| 8100.00 | 90.00 | 266.98 | 7060.00 | 32.75 | 13.43 | 90.00 | 436.37 | 188.09 | 1.76 | Goetzel I 29-14 (s) | SF(Lo) |
| 8100.00 | 90.00 | 266.98 | 7060.00 | 32.75 | 13.43 | 63.57 | 235.91 | 181.44 | 4.33 | Goetzel 34N-30C-M (p) | |
| 8200.00 | 90.00 | 266.98 | 7060.00 | 34.12 | 14.04 | 90.00 | 482.28 | 231.07 | 1.92 | Goetzel I 29-14 (s) | SF(Lo) |
| 8200.00 | 90.00 | 266.98 | 7060.00 | 34.12 | 14.04 | 63.58 | 236.00 | 179.01 | 4.14 | Goetzel 34N-30C-M (p) | |
| 8300.00 | 90.00 | 266.98 | 7060.00 | 35.65 | 14.68 | 90.00 | 542.92 | 290.07 | 2.15 | Goetzel I 29-14 (s) | SF(Lo) |
| 8300.00 | 90.00 | 266.98 | 7060.00 | 35.65 | 14.68 | 63.59 | 236.10 | 176.22 | 3.94 | Goetzel 34N-30C-M (p) | |
| 8400.00 | 90.00 | 266.98 | 7060.00 | 37.33 | 15.34 | 90.00 | 613.95 | 360.95 | 2.43 | Goetzel I 29-14 (s) | SF(Lo) |
| 8400.00 | 90.00 | 266.98 | 7060.00 | 37.33 | 15.34 | 63.60 | 236.19 | 173.19 | 3.75 | Goetzel 34N-30C-M (p) | |
| 8500.00 | 90.00 | 266.98 | 7060.00 | 39.13 | 16.02 | 90.00 | 692.18 | 438.16 | 2.72 | Goetzel I 29-14 (s) | |
| 8500.00 | 90.00 | 266.98 | 7060.00 | 39.13 | 16.02 | 63.62 | 236.28 | 169.95 | 3.56 | Goetzel 34N-30C-M (p) | |
| 8600.00 | 90.00 | 266.98 | 7060.00 | 41.04 | 16.71 | 90.00 | 775.43 | 522.05 | 3.06 | Goetzel I 29-14 (s) | |
| 8600.00 | 90.00 | 266.98 | 7060.00 | 41.04 | 16.71 | 63.63 | 236.37 | 166.46 | 3.38 | Goetzel 34N-30C-M (p) | |

5D Anti-Collision Report

| Primary Well: Goetzel 34C-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 |
| 8700.00 | 90.00 | 266.98 | 7060.00 | 43.05 | 17.41 | 63.64 | 236.46 | 162.83 | 3.21 | Goetzel 34N-30C-M (p) | |
| 8800.00 | 90.00 | 266.98 | 7060.00 | 45.14 | 18.11 | 63.65 | 236.56 | 158.95 | 3.05 | Goetzel 34N-30C-M (p) | |
| 8900.00 | 90.00 | 266.98 | 7060.00 | 47.30 | 18.81 | 63.66 | 236.65 | 155.15 | 2.90 | Goetzel 34N-30C-M (p) | |
| 9000.00 | 90.00 | 266.98 | 7060.00 | 49.52 | 19.52 | 63.67 | 236.74 | 150.96 | 2.76 | Goetzel 34N-30C-M (p) | |
| 9100.00 | 90.00 | 266.98 | 7060.00 | 51.81 | 20.22 | 63.68 | 236.83 | 146.74 | 2.63 | Goetzel 34N-30C-M (p) | |
| 9200.00 | 90.00 | 266.98 | 7060.00 | 54.14 | 20.93 | 63.69 | 236.92 | 142.45 | 2.51 | Goetzel 34N-30C-M (p) | |
| 9300.00 | 90.00 | 266.98 | 7060.00 | 56.51 | 21.64 | 63.70 | 237.02 | 138.11 | 2.40 | Goetzel 34N-30C-M (p) | SF(Lo) |
| 9400.00 | 90.00 | 266.98 | 7060.00 | 58.92 | 22.35 | 63.71 | 237.11 | 133.71 | 2.29 | Goetzel 34N-30C-M (p) | SF(Lo) |
| 9500.00 | 90.00 | 266.98 | 7060.00 | 61.37 | 23.06 | 63.73 | 237.20 | 129.27 | 2.20 | Goetzel 34N-30C-M (p) | SF(Lo) |
| 9600.00 | 90.00 | 266.98 | 7060.00 | 63.84 | 23.77 | 63.74 | 237.29 | 124.79 | 2.11 | Goetzel 34N-30C-M (p) | SF(Lo) |
| 9700.00 | 90.00 | 266.98 | 7060.00 | 66.34 | 24.48 | 63.75 | 237.38 | 120.26 | 2.03 | Goetzel 34N-30C-M (p) | SF(Lo) |
| 9800.00 | 90.00 | 266.98 | 7060.00 | 68.87 | 25.19 | 63.76 | 237.48 | 115.71 | 1.95 | Goetzel 34N-30C-M (p) | SF(Lo) |
| 9900.00 | 90.00 | 266.98 | 7060.00 | 71.41 | 25.91 | 63.77 | 237.57 | 111.12 | 1.88 | Goetzel 34N-30C-M (p) | SF(Lo) |
| 10000.00 | 90.00 | 266.98 | 7060.00 | 73.98 | 26.62 | 63.78 | 237.66 | 106.50 | 1.81 | Goetzel 34N-30C-M (p) | SF(Lo) |
| 10100.00 | 90.00 | 266.98 | 7060.00 | 76.56 | 27.33 | 63.79 | 237.75 | 101.86 | 1.75 | Goetzel 34N-30C-M (p) | SF(Lo) |
| 10200.00 | 90.00 | 266.98 | 7060.00 | 79.15 | 28.04 | 63.80 | 237.84 | 97.20 | 1.69 | Goetzel 34N-30C-M (p) | SF(Lo) |
| 10300.00 | 90.00 | 266.98 | 7060.00 | 81.76 | 28.76 | 63.81 | 237.94 | 92.51 | 1.64 | Goetzel 34N-30C-M (p) | SF(Lo) |
| 10400.00 | 90.00 | 266.98 | 7060.00 | 84.38 | 29.47 | 63.82 | 238.03 | 87.80 | 1.58 | Goetzel 34N-30C-M (p) | SF(Lo) |
| 10500.00 | 90.00 | 266.98 | 7060.00 | 87.02 | 30.19 | 63.84 | 238.12 | 83.07 | 1.54 | Goetzel 34N-30C-M (p) | SF(Lo) |
| 10600.00 | 90.00 | 266.98 | 7060.00 | 89.66 | 30.90 | 63.85 | 238.21 | 78.32 | 1.49 | Goetzel 34N-30C-M (p) | SF(Med) |
| 10700.00 | 90.00 | 266.98 | 7060.00 | 92.31 | 31.62 | 63.86 | 238.31 | 73.56 | 1.45 | Goetzel 34N-30C-M (p) | SF(Med) |
| 10800.00 | 90.00 | 266.98 | 7060.00 | 94.97 | 32.33 | 63.87 | 238.40 | 68.78 | 1.41 | Goetzel 34N-30C-M (p) | SF(Med) |
| 10900.00 | 90.00 | 266.98 | 7060.00 | 97.64 | 33.05 | 63.88 | 238.49 | 63.99 | 1.37 | Goetzel 34N-30C-M (p) | SF(Med) |
| 11000.00 | 90.00 | 266.98 | 7060.00 | 100.32 | 33.77 | 63.89 | 238.58 | 59.20 | 1.33 | Goetzel 34N-30C-M (p) | SF(Med) |
| 11100.00 | 90.00 | 266.98 | 7060.00 | 103.00 | 34.48 | 63.90 | 238.67 | 54.40 | 1.30 | Goetzel 34N-30C-M (p) | SF(Med) |
| 11200.00 | 90.00 | 266.98 | 7060.00 | 105.69 | 35.20 | 63.91 | 238.77 | 49.60 | 1.26 | | SF(Med) |

5D Anti-Collision Report

| Primary Well: Goetzel 34C-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 |
| 11300.00 | 90.00 | 266.98 | 7060.00 | 108.38 | 35.92 | 90.00 | 266.39 | -3.94 | 0.99 | Goetzel 34N-30C-M (p) Firestien #30-4-21 (s) | SF(Hi) |
| 11300.00 | 90.00 | 266.98 | 7060.00 | 108.38 | 35.92 | 63.92 | 238.86 | 44.81 | 1.23 | Goetzel 34N-30C-M (p) | SF(Med) |
| 11400.00 | 90.00 | 266.98 | 7060.00 | 111.08 | 36.64 | 90.00 | 175.08 | -109.77 | 0.61 | Firestien #30-4-21 (s) | SF(Hi) |
| 11500.00 | 90.00 | 266.98 | 7060.00 | 113.79 | 37.36 | 90.00 | 101.70 | -214.54 | 0.32 | Firestien #30-4-21 (s) | SF(Hi) |
| 11600.00 | 90.00 | 266.98 | 7060.00 | 116.50 | 38.07 | 90.00 | 100.17 | -208.97 | 0.32 | Firestien #30-4-21 (s) | SF(Hi) |
| 11700.00 | 90.00 | 266.98 | 7060.00 | 119.21 | 38.79 | 90.00 | 172.41 | -100.26 | 0.63 | Firestien #30-4-21 (s) | SF(Hi) |
| 11800.00 | 90.00 | 266.98 | 7060.00 | 121.93 | 39.51 | 90.00 | 263.47 | 3.88 | 1.01 | Firestien #30-4-21 (s) | SF(Med) |
| 11800.00 | 90.00 | 266.98 | 7060.00 | 121.93 | 39.51 | 63.98 | 239.32 | 20.68 | 1.09 | Goetzel 34N-30C-M (p) | SF(Med) |
| 11900.00 | 90.00 | 266.98 | 7060.00 | 124.65 | 40.23 | 63.99 | 239.41 | 15.83 | 1.07 | Goetzel 34N-30C-M (p) | SF(Med) |
| 12000.00 | 90.00 | 266.98 | 7060.00 | 127.37 | 40.96 | 64.00 | 239.50 | 10.84 | 1.05 | Goetzel 34N-30C-M (p) | SF(Med) |
| 12100.00 | 90.00 | 266.98 | 7060.00 | 130.10 | 41.68 | 64.01 | 239.60 | 5.84 | 1.02 | Goetzel 34N-30C-M (p) | SF(Med) |
| 12200.00 | 90.00 | 266.98 | 7060.00 | 132.83 | 42.40 | 64.02 | 239.69 | 0.85 | 1.00 | Goetzel 34N-30C-M (p) | SF(Med) |
| 12300.00 | 90.00 | 266.98 | 7060.00 | 135.56 | 43.12 | 64.03 | 239.78 | -4.13 | 0.98 | Goetzel 34N-30C-M (p) | SF(Hi) |
| 12400.00 | 90.00 | 266.98 | 7060.00 | 138.30 | 43.84 | 64.04 | 239.87 | -9.09 | 0.96 | Goetzel 34N-30C-M (p) | SF(Hi) |
| 12500.00 | 90.00 | 266.98 | 7060.00 | 141.04 | 44.56 | 64.05 | 239.97 | -14.05 | 0.94 | Goetzel 34N-30C-M (p) | SF(Hi) |
| 12600.00 | 90.00 | 266.98 | 7060.00 | 143.78 | 45.29 | 64.06 | 240.06 | -19.00 | 0.93 | Goetzel 34N-30C-M (p) | SF(Hi) |
| 12700.00 | 90.00 | 266.98 | 7060.00 | 146.52 | 46.01 | 64.07 | 240.15 | -23.94 | 0.91 | Goetzel 34N-30C-M (p) | SF(Hi) |
| 12800.00 | 90.00 | 266.98 | 7060.00 | 149.27 | 46.73 | 64.08 | 240.24 | -28.89 | 0.89 | Goetzel 34N-30C-M (p) | SF(Hi) |
| 12900.00 | 90.00 | 266.98 | 7060.00 | 152.01 | 47.46 | 64.09 | 240.34 | -33.84 | 0.88 | Goetzel 34N-30C-M (p) | SF(Hi) |
| 13000.00 | 90.00 | 266.98 | 7060.00 | 154.76 | 48.18 | 64.11 | 240.43 | -38.78 | 0.86 | Goetzel 34N-30C-M (p) | SF(Hi) |
| 13100.00 | 90.00 | 266.98 | 7060.00 | 157.51 | 48.90 | 64.12 | 240.52 | -43.73 | 0.85 | Goetzel 34N-30C-M (p) | SF(Hi) |
| 13200.00 | 90.00 | 266.98 | 7060.00 | 160.27 | 49.63 | 64.13 | 240.61 | -48.67 | 0.83 | Goetzel 34N-30C-M (p) | SF(Hi) |
| 13300.00 | 90.00 | 266.98 | 7060.00 | 163.02 | 50.35 | 64.14 | 240.71 | -53.62 | 0.82 | Goetzel 34N-30C-M (p) | SF(Hi) |
| 13400.00 | 90.00 | 266.98 | 7060.00 | 165.78 | 51.08 | 64.15 | 240.80 | -58.57 | 0.80 | Goetzel 34N-30C-M (p) | SF(Hi) |
| 13500.00 | 90.00 | 266.98 | 7060.00 | 168.53 | 51.80 | 64.16 | 240.89 | -63.53 | 0.79 | | SF(Hi) |

5D Anti-Collision Report

| Primary Well: Goetzel 34C-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 |
| 13600.00 | 90.00 | 266.98 | 7060.00 | 171.29 | 52.53 | 64.17 | 240.98 | -68.48 | 0.78 | Goetzel 34N-30C-M (p) | SF(Hi) |
| 13700.00 | 90.00 | 266.98 | 7060.00 | 174.05 | 53.25 | 64.18 | 241.08 | -73.44 | 0.77 | Goetzel 34N-30C-M (p) | SF(Hi) |
| 13800.00 | 90.00 | 266.98 | 7060.00 | 176.81 | 53.98 | 64.19 | 241.17 | -78.40 | 0.75 | Goetzel 34N-30C-M (p) | SF(Hi) |
| 13900.00 | 90.00 | 266.98 | 7060.00 | 179.57 | 54.70 | 64.20 | 241.26 | -83.36 | 0.74 | Goetzel 34N-30C-M (p) | SF(Hi) |
| 14000.00 | 90.00 | 266.98 | 7060.00 | 182.34 | 55.43 | 64.21 | 241.35 | -88.32 | 0.73 | Goetzel 34N-30C-M (p) | SF(Hi) |
| 14100.00 | 90.00 | 266.98 | 7060.00 | 185.10 | 56.15 | 64.22 | 241.44 | -93.28 | 0.72 | Goetzel 34N-30C-M (p) | SF(Hi) |
| 14200.00 | 90.00 | 266.98 | 7060.00 | 187.87 | 56.88 | 64.23 | 241.54 | -98.25 | 0.71 | Goetzel 34N-30C-M (p) | SF(Hi) |
| 14300.00 | 90.00 | 266.98 | 7060.00 | 190.63 | 57.60 | 64.24 | 241.63 | -103.22 | 0.70 | Goetzel 34N-30C-M (p) | SF(Hi) |
| 14400.00 | 90.00 | 266.98 | 7060.00 | 193.40 | 58.33 | 64.25 | 241.72 | -108.19 | 0.69 | Goetzel 34N-30C-M (p) | SF(Hi) |
| 14500.00 | 90.00 | 266.98 | 7060.00 | 196.17 | 59.06 | 64.26 | 241.81 | -113.16 | 0.68 | Goetzel 34N-30C-M (p) | SF(Hi) |
| 14600.00 | 90.00 | 266.98 | 7060.00 | 198.94 | 59.78 | 64.28 | 241.91 | -118.14 | 0.67 | Goetzel 34N-30C-M (p) | SF(Hi) |
| 14700.00 | 90.00 | 266.98 | 7060.00 | 201.71 | 60.51 | 64.29 | 242.00 | -123.12 | 0.66 | Goetzel 34N-30C-M (p) | SF(Hi) |
| 14800.00 | 90.00 | 266.98 | 7060.00 | 204.48 | 61.24 | 64.30 | 242.09 | -128.09 | 0.65 | Goetzel 34N-30C-M (p) | SF(Hi) |
| 14900.00 | 90.00 | 266.98 | 7060.00 | 207.25 | 61.96 | 64.31 | 242.18 | -133.08 | 0.65 | Goetzel 34N-30C-M (p) | SF(Hi) |
| 15000.00 | 90.00 | 266.98 | 7060.00 | 210.03 | 62.69 | 64.32 | 242.28 | -138.06 | 0.64 | Goetzel 34N-30C-M (p) | SF(Hi) |
| 15100.00 | 90.00 | 266.98 | 7060.00 | 212.80 | 63.42 | 64.33 | 242.37 | -143.04 | 0.63 | Goetzel 34N-30C-M (p) | SF(Hi) |
| 15200.00 | 90.00 | 266.98 | 7060.00 | 215.57 | 64.15 | 64.34 | 242.46 | -148.03 | 0.62 | Goetzel 34N-30C-M (p) | SF(Hi) |
| 15300.00 | 90.00 | 266.98 | 7060.00 | 218.35 | 64.87 | 64.35 | 242.56 | -153.01 | 0.61 | Goetzel 34N-30C-M (p) | SF(Hi) |
| 15400.00 | 90.00 | 266.98 | 7060.00 | 221.12 | 65.60 | 64.36 | 242.65 | -158.00 | 0.61 | Goetzel 34N-30C-M (p) | SF(Hi) |
| 15500.00 | 90.00 | 266.98 | 7060.00 | 223.90 | 66.33 | 64.37 | 242.74 | -162.99 | 0.60 | Goetzel 34N-30C-M (p) | SF(Hi) |
| 15600.00 | 90.00 | 266.98 | 7060.00 | 226.67 | 67.06 | 64.38 | 242.83 | -167.99 | 0.59 | Goetzel 34N-30C-M (p) | SF(Hi) |
| 15700.00 | 90.00 | 266.98 | 7060.00 | 229.45 | 67.79 | 64.39 | 242.93 | -172.98 | 0.58 | Goetzel 34N-30C-M (p) | SF(Hi) |
| 15768.80 | 90.00 | 266.98 | 7060.00 | 231.36 | 68.29 | 64.40 | 243.15 | -174.87 | 0.58 | Goetzel 34N-30C-M (p) | SF(Hi) |

5D Anti-Collision Report

| Secondary Well: Goetzel 2-29 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH) | | | | | | | | | | | Risk |
|---|-------------------|------------|-----------|----------------|--------------------|--------------------|-------------------------|---------------|---------------|--------|---------------------|
| 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 | |
| 0.00 | 0.00 | 0.00 | 0.00 | 28.00 | 0.00 | 0.00 | 130.38 | 186.00 | 185.23 | 241.63 | |
| 100.00 | 72.00 | 0.00 | 0.00 | 100.00 | 1.09 | 1.09 | 130.38 | 183.88 | 181.91 | 93.22 | |
| 200.00 | 172.00 | 0.00 | 0.00 | 200.00 | 2.69 | 2.69 | 130.38 | 183.88 | 180.08 | 48.45 | |
| 300.00 | 272.00 | 0.00 | 0.00 | 300.00 | 5.73 | 5.73 | 130.38 | 183.88 | 176.82 | 26.06 | |
| 400.00 | 371.98 | 0.00 | 0.00 | 399.98 | 8.77 | 8.77 | 346.12 | 182.19 | 171.89 | 17.70 | |
| 500.00 | 471.84 | 0.00 | 0.00 | 499.84 | 11.80 | 11.80 | 345.69 | 177.11 | 163.75 | 13.26 | |
| 600.00 | 571.45 | 0.00 | 0.00 | 599.45 | 14.82 | 14.82 | 344.92 | 168.68 | 152.08 | 10.16 | |
| 700.00 | 670.70 | 0.00 | 0.00 | 698.70 | 17.84 | 17.84 | 343.69 | 156.94 | 137.10 | 7.91 | |
| 800.00 | 769.47 | 0.00 | 0.00 | 797.47 | 20.84 | 20.84 | 341.83 | 141.98 | 118.93 | 6.16 | |
| 900.00 | 867.62 | 0.00 | 0.00 | 895.62 | 23.82 | 23.82 | 338.95 | 123.96 | 97.65 | 4.71 | |
| 1000.00 | 965.06 | 0.00 | 0.00 | 993.06 | 26.78 | 26.78 | 334.30 | 103.22 | 73.60 | 3.48 | |
| 1100.00 | 1061.64 | 0.00 | 0.00 | 1089.64 | 29.71 | 29.71 | 326.12 | 80.51 | 47.56 | 2.44 | SF(Lo) |
| 1200.00 | 1157.27 | 0.00 | 0.00 | 1185.27 | 32.61 | 32.61 | 309.91 | 58.15 | 21.75 | 1.60 | SF(Lo); CC (Lo) |
| 1300.00 | 1251.82 | 0.00 | 0.00 | 1279.82 | 35.49 | 35.49 | 277.18 | 44.06 | 3.70 | 1.09 | SF(Med); CC (Lo) |
| 1400.00 | 1345.37 | 0.00 | 0.00 | 1373.37 | 38.33 | 38.33 | 237.76 | 52.68 | 9.25 | 1.21 | SF(Med); CC (Lo) |
| 1500.00 | 1438.80 | 0.00 | 0.00 | 1466.80 | 41.16 | 41.16 | 215.67 | 78.40 | 32.35 | 1.70 | SF(Lo) |
| 1600.00 | 1532.23 | 0.00 | 0.00 | 1560.23 | 44.00 | 44.00 | 204.88 | 109.82 | 60.94 | 2.25 | SF(Lo) |
| 1700.00 | 1625.66 | 0.00 | 0.00 | 1653.66 | 46.84 | 46.84 | 198.91 | 143.23 | 91.33 | 2.76 | |
| 1800.00 | 1719.09 | 0.00 | 0.00 | 1747.09 | 49.68 | 49.68 | 195.20 | 177.51 | 122.56 | 3.23 | |
| 1900.00 | 1812.52 | 0.00 | 0.00 | 1840.52 | 52.51 | 52.51 | 192.68 | 212.24 | 154.31 | 3.66 | |
| 2000.00 | 1905.96 | 0.00 | 0.00 | 1933.96 | 55.35 | 55.35 | 190.87 | 247.23 | 186.22 | 4.05 | |
| 2100.00 | 1999.39 | 0.00 | 0.00 | 2027.39 | 58.19 | 58.19 | 189.51 | 282.38 | 218.20 | 4.40 | |
| 2200.00 | 2092.82 | 0.00 | 0.00 | 2120.82 | 61.03 | 61.03 | 188.45 | 317.65 | 250.30 | 4.72 | |
| 2300.00 | 2186.25 | 0.00 | 0.00 | 2214.25 | 63.86 | 63.86 | 187.60 | 352.99 | 282.48 | 5.01 | |
| 2400.00 | 2279.68 | 0.00 | 0.00 | 2307.68 | 66.70 | 66.70 | 186.91 | 388.38 | 314.72 | 5.27 | |
| 2500.00 | 2373.11 | 0.00 | 0.00 | 2401.11 | 69.54 | 69.54 | 186.33 | 423.82 | 347.02 | 5.52 | |
| 2600.00 | 2466.55 | 0.00 | 0.00 | 2494.55 | 72.38 | 72.38 | 185.84 | 459.29 | 379.35 | 5.75 | |
| 2700.00 | 2559.98 | 0.00 | 0.00 | 2587.98 | 75.21 | 75.21 | 185.42 | 494.78 | 411.71 | 5.96 | |
| 2800.00 | 2653.41 | 0.00 | 0.00 | 2681.41 | 78.05 | 78.05 | 185.05 | 530.30 | 444.09 | 6.15 | |
| 2900.00 | 2746.84 | 0.00 | 0.00 | 2774.84 | 80.89 | 80.89 | 184.74 | 565.83 | 476.49 | 6.33 | |
| 3000.00 | 2840.27 | 0.00 | 0.00 | 2868.27 | 83.72 | 83.72 | 184.46 | 601.37 | 508.91 | 6.50 | |
| 3100.00 | 2933.70 | 0.00 | 0.00 | 2961.70 | 86.56 | 86.56 | 184.21 | 636.93 | 541.33 | 6.66 | |
| 3200.00 | 3027.14 | 0.00 | 0.00 | 3055.14 | 89.40 | 89.40 | 183.98 | 672.49 | 573.77 | 6.81 | |
| 3300.00 | 3120.57 | 0.00 | 0.00 | 3148.57 | 92.24 | 92.24 | 183.78 | 708.07 | 606.21 | 6.95 | |
| 3400.00 | 3214.00 | 0.00 | 0.00 | 3242.00 | 95.07 | 95.07 | 183.60 | 743.65 | 638.66 | 7.08 | |
| 3500.00 | 3307.43 | 0.00 | 0.00 | 3335.43 | 97.91 | 97.91 | 183.44 | 779.23 | 671.12 | 7.21 | |
| 3600.00 | 3400.86 | 0.00 | 0.00 | 3428.86 | 100.75 | 100.75 | 183.29 | 814.82 | 703.58 | 7.32 | |
| 3700.00 | 3494.29 | 0.00 | 0.00 | 3522.29 | 103.59 | 103.59 | 183.15 | 850.42 | 736.05 | 7.44 | |
| 3800.00 | 3587.73 | 0.00 | 0.00 | 3615.73 | 106.42 | 106.42 | 183.02 | 886.02 | 768.51 | 7.54 | |
| 3900.00 | 3681.16 | 0.00 | 0.00 | 3709.16 | 109.26 | 109.26 | 182.91 | 921.62 | 800.97 | 7.64 | |
| 4000.00 | 3774.59 | 0.00 | 0.00 | 3802.59 | 112.10 | 112.10 | 182.80 | 957.23 | 833.44 | 7.73 | |
| 4100.00 | 3868.02 | 0.00 | 0.00 | 3896.02 | 114.94 | 114.94 | 182.70 | 992.84 | 865.91 | 7.82 | |
| 4200.00 | 3961.45 | 0.00 | 0.00 | 3989.45 | 117.77 | 117.77 | 182.60 | 1028.45 | 898.39 | 7.91 | |
| 4300.00 | 4054.88 | 0.00 | 0.00 | 4082.88 | 120.61 | 120.61 | 182.52 | 1064.06 | 930.86 | 7.99 | |
| 4400.00 | 4148.32 | 0.00 | 0.00 | 4176.32 | 123.45 | 123.45 | 182.44 | 1099.68 | 963.34 | 8.07 | |
| 4500.00 | 4241.75 | 0.00 | 0.00 | 4269.75 | 126.29 | 126.29 | 182.36 | 1135.29 | 995.82 | 8.14 | |
| 4600.00 | 4335.18 | 0.00 | 0.00 | 4363.18 | 129.12 | 129.12 | 182.29 | 1170.91 | 1028.30 | 8.21 | |
| 4700.00 | 4428.61 | 0.00 | 0.00 | 4456.61 | 131.96 | 131.96 | 182.22 | 1206.53 | 1060.78 | 8.28 | |
| 4800.00 | 4522.04 | 0.00 | 0.00 | 4550.04 | 134.80 | 134.80 | 182.16 | 1242.15 | 1093.27 | 8.34 | |
| 4900.00 | 4615.47 | 0.00 | 0.00 | 4643.47 | 137.64 | 137.64 | 182.10 | 1277.78 | 1125.75 | 8.40 | |
| 5000.00 | 4708.91 | 0.00 | 0.00 | 4736.91 | 140.47 | 140.47 | 182.04 | 1313.40 | 1158.24 | 8.46 | |
| 5100.00 | 4802.34 | 0.00 | 0.00 | 4830.34 | 143.31 | 143.31 | 181.99 | 1349.03 | 1190.72 | 8.52 | |
| 5200.00 | 4895.77 | 0.00 | 0.00 | 4923.77 | 146.15 | 146.15 | 181.93 | 1384.65 | 1223.21 | 8.58 | |
| 5300.00 | 4989.20 | 0.00 | 0.00 | 5017.20 | 148.98 | 148.98 | 181.89 | 1420.28 | 1255.70 | 8.63 | |
| 5400.00 | 5082.63 | 0.00 | 0.00 | 5110.63 | 151.82 | 151.82 | 181.84 | 1455.91 | 1288.19 | 8.68 | |
| 5500.00 | 5176.06 | 0.00 | 0.00 | 5204.06 | 154.66 | 154.66 | 181.80 | 1491.54 | 1320.68 | 8.73 | |

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 |
| 5600.00 | 5269.50 | 0.00 | 0.00 | 5297.50 | 157.50 | 157.50 | 181.75 | 1527.17 | 1353.17 | 8.78 | |
| 5700.00 | 5362.93 | 0.00 | 0.00 | 5390.93 | 160.33 | 160.33 | 181.71 | 1562.80 | 1385.66 | 8.82 | |
| 5800.00 | 5456.36 | 0.00 | 0.00 | 5484.36 | 163.17 | 163.17 | 181.68 | 1598.43 | 1418.15 | 8.87 | |
| 5900.00 | 5549.79 | 0.00 | 0.00 | 5577.79 | 166.01 | 166.01 | 181.64 | 1634.06 | 1450.64 | 8.91 | |
| 6000.00 | 5643.22 | 0.00 | 0.00 | 5671.22 | 168.85 | 168.85 | 181.60 | 1669.69 | 1483.13 | 8.95 | |
| 6100.00 | 5736.65 | 0.00 | 0.00 | 5764.65 | 171.68 | 171.68 | 181.57 | 1705.32 | 1515.62 | 8.99 | |
| 6200.00 | 5830.09 | 0.00 | 0.00 | 5858.09 | 174.52 | 174.52 | 181.54 | 1740.96 | 1548.12 | 9.03 | |
| 6300.00 | 5923.52 | 0.00 | 0.00 | 5951.52 | 177.36 | 177.36 | 181.51 | 1776.59 | 1580.61 | 9.07 | |
| 6400.00 | 6016.95 | 0.00 | 0.00 | 6044.95 | 180.20 | 180.20 | 181.48 | 1812.22 | 1613.10 | 9.10 | |
| 6500.00 | 6110.38 | 0.00 | 0.00 | 6138.38 | 183.03 | 183.03 | 181.45 | 1847.86 | 1645.60 | 9.14 | |
| 6600.00 | 6203.81 | 0.00 | 0.00 | 6231.81 | 185.87 | 185.87 | 181.42 | 1883.49 | 1678.09 | 9.17 | |
| 6700.00 | 6297.98 | 0.00 | 0.00 | 6325.98 | 188.73 | 188.73 | 161.77 | 1916.74 | 1708.17 | 9.19 | |
| 6800.00 | 6393.13 | 0.00 | 0.00 | 6421.13 | 191.62 | 191.62 | 135.83 | 1943.16 | 1731.36 | 9.17 | |
| 6900.00 | 6487.44 | 0.00 | 0.00 | 6515.44 | 194.48 | 194.48 | 114.29 | 1962.43 | 1747.41 | 9.13 | |
| 7000.00 | 6579.08 | 0.00 | 0.00 | 6607.08 | 197.27 | 197.27 | 100.31 | 1974.65 | 1756.51 | 9.05 | |
| 7100.00 | 6666.25 | 0.00 | 0.00 | 6694.25 | 199.91 | 199.91 | 92.17 | 1980.19 | 1759.12 | 8.96 | |
| 7200.00 | 6747.27 | 0.00 | 0.00 | 6775.27 | 202.38 | 202.38 | 87.74 | 1979.71 | 1755.92 | 8.85 | |
| 7300.00 | 6820.56 | 0.00 | 0.00 | 6848.56 | 204.60 | 204.60 | 85.67 | 1974.06 | 1747.91 | 8.73 | |
| 7400.00 | 6884.68 | 0.00 | 0.00 | 6912.68 | 206.55 | 206.55 | 85.11 | 1964.24 | 1736.11 | 8.61 | |
| 7500.00 | 6938.40 | 0.00 | 0.00 | 6966.40 | 208.18 | 208.18 | 85.52 | 1951.34 | 1720.35 | 8.45 | |
| 7600.00 | 6980.67 | 0.00 | 0.00 | 7008.67 | 209.46 | 209.46 | 86.50 | 1936.46 | 1702.93 | 8.29 | |
| 7700.00 | 7010.66 | 0.00 | 0.00 | 7038.66 | 210.37 | 210.37 | 87.74 | 1920.63 | 1685.17 | 8.16 | |
| 7800.00 | 7027.79 | 0.00 | 0.00 | 7055.79 | 210.89 | 210.89 | 89.03 | 1904.72 | 1667.49 | 8.03 | |
| 7900.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 1889.48 | 1650.02 | 7.89 | |
| 8000.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 1878.07 | 1636.84 | 7.79 | |
| 8100.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 1871.94 | 1629.48 | 7.72 | |
| 8200.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 1871.15 | 1626.10 | 7.64 | |
| 8300.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 1875.69 | 1628.67 | 7.59 | |
| 8400.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 1885.53 | 1637.07 | 7.59 | |
| 8500.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 1900.59 | 1649.88 | 7.58 | |
| 8600.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 1920.74 | 1667.95 | 7.60 | |
| 8700.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 1945.84 | 1691.63 | 7.65 | |
| 8800.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 1975.68 | 1720.18 | 7.73 | |
| 8900.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 2010.05 | 1752.54 | 7.81 | |
| 9000.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 2048.74 | 1789.75 | 7.91 | |
| 9100.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 2091.50 | 1831.55 | 8.05 | |
| 9200.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 2138.08 | 1877.10 | 8.19 | |
| 9300.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 2188.24 | 1925.82 | 8.34 | |
| 9400.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 2241.74 | 1978.32 | 8.51 | |
| 9500.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 2298.35 | 2034.33 | 8.71 | |
| 9600.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 2357.85 | 2093.57 | 8.92 | |
| 9700.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 2420.01 | 2154.92 | 9.13 | |
| 9800.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 2484.65 | 2218.70 | 9.34 | |
| 9900.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 2551.57 | 2284.97 | 9.57 | |
| 10000.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 2620.60 | 2353.60 | 9.82 | |
| 10100.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 2691.57 | 2424.39 | 10.07 | |
| 10200.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 2764.34 | 2497.16 | 10.35 | |
| 10300.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 2838.76 | 2571.27 | 10.61 | |
| 10400.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 2914.72 | 2646.70 | 10.87 | |
| 10500.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 2992.09 | 2723.70 | 11.15 | |
| 10600.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 3070.77 | 2802.15 | 11.43 | |
| 10700.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 3150.66 | 2881.86 | 11.72 | |
| 10800.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 3231.67 | 2962.74 | 12.02 | |
| 10900.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 3313.71 | 3044.75 | 12.32 | |
| 11000.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 3396.72 | 3127.82 | 12.63 | |
| 11100.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 3480.62 | 3211.86 | 12.95 | |
| 11200.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 3565.35 | 3296.60 | 13.27 | |
| 11300.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 3650.86 | 3381.89 | 13.57 | |

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 |
| 11400.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 3737.08 | 3468.03 | 13.89 | |
| 11500.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 3823.98 | 3554.75 | 14.20 | |
| 11600.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 3911.50 | 3642.10 | 14.52 | |
| 11700.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 3999.60 | 3730.18 | 14.84 | |
| 11800.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 4088.26 | 3818.82 | 15.17 | |
| 11900.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 4177.42 | 3908.07 | 15.51 | |
| 12000.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 4267.07 | 3997.56 | 15.83 | |
| 12100.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 4357.17 | 4087.64 | 16.17 | |
| 12200.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 4447.69 | 4178.25 | 16.51 | |
| 12300.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 4538.61 | 4269.34 | 16.86 | |
| 12400.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 4629.90 | 4360.86 | 17.21 | |
| 12500.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 4721.54 | 4452.71 | 17.56 | |
| 12600.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 4813.52 | 4544.83 | 17.91 | |
| 12700.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 4905.81 | 4637.18 | 18.26 | |
| 12800.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 4998.40 | 4729.87 | 18.61 | |
| 12900.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 5091.27 | 4822.60 | 18.95 | |
| 13000.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 5184.41 | 4915.62 | 19.29 | |
| 13100.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 5277.79 | 5008.93 | 19.63 | |
| 13200.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 5371.42 | 5102.49 | 19.97 | |
| 13300.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 5465.27 | 5196.29 | 20.32 | |
| 13400.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 5559.33 | 5290.33 | 20.67 | |
| 13500.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 5653.60 | 5384.58 | 21.02 | |
| 13600.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 5748.06 | 5479.04 | 21.37 | |
| 13700.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 5842.70 | 5573.69 | 21.72 | |
| 13800.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 5937.53 | 5668.52 | 22.07 | |
| 13900.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 6032.51 | 5763.53 | 22.43 | |
| 14000.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 6127.66 | 5858.71 | 22.78 | |
| 14100.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 6222.96 | 5954.04 | 23.14 | |
| 14200.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 6318.41 | 6049.51 | 23.50 | |
| 14300.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 6413.99 | 6145.11 | 23.85 | |
| 14400.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 6509.71 | 6240.85 | 24.21 | |
| 14500.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 6605.55 | 6336.72 | 24.57 | |
| 14600.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 6701.52 | 6432.72 | 24.93 | |
| 14700.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 6797.60 | 6528.84 | 25.29 | |
| 14800.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 6893.79 | 6625.07 | 25.65 | |
| 14900.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 6990.09 | 6721.41 | 26.02 | |
| 15000.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 7086.50 | 6817.86 | 26.38 | |
| 15100.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 7183.00 | 6914.41 | 26.74 | |
| 15200.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 7279.59 | 7011.05 | 27.11 | |
| 15300.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 7376.28 | 7107.79 | 27.47 | |
| 15400.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 7473.05 | 7204.61 | 27.84 | |
| 15500.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 7569.91 | 7301.52 | 28.21 | |
| 15600.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 7666.85 | 7398.51 | 28.57 | |
| 15700.00 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 7763.86 | 7495.59 | 28.94 | |
| 15768.80 | 7032.00 | 0.00 | 0.00 | 7060.00 | 211.02 | 211.02 | 90.00 | 7830.65 | 7562.41 | 29.19 | |
| 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 | 258.67 | 6826.35 | 6825.62 | 9375.50 | |
| 100.00 | 75.00 | 0.00 | 0.00 | 100.00 | 1.14 | 1.14 | 258.67 | 6826.31 | 6824.33 | 3454.64 | |
| 200.00 | 175.00 | 0.00 | 0.00 | 200.00 | 2.78 | 2.78 | 258.67 | 6826.31 | 6822.46 | 1775.79 | |
| 300.00 | 275.00 | 0.00 | 0.00 | 300.00 | 5.82 | 5.82 | 258.67 | 6826.31 | 6819.20 | 960.79 | |
| 400.00 | 374.98 | 0.00 | 0.00 | 399.98 | 8.86 | 8.86 | 114.56 | 6827.03 | 6816.69 | 660.12 | |
| 500.00 | 474.84 | 0.00 | 0.00 | 499.84 | 11.89 | 11.89 | 114.56 | 6829.21 | 6815.81 | 509.64 | |
| 600.00 | 574.45 | 0.00 | 0.00 | 599.45 | 14.91 | 14.91 | 114.56 | 6832.84 | 6816.19 | 410.27 | |
| 700.00 | 673.70 | 0.00 | 0.00 | 698.70 | 17.93 | 17.93 | 114.56 | 6837.94 | 6818.00 | 342.98 | |
| 800.00 | 772.47 | 0.00 | 0.00 | 797.47 | 20.93 | 20.93 | 114.56 | 6844.51 | 6821.26 | 294.40 | |

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 |
| 900.00 | 870.62 | 0.00 | 0.00 | 895.62 | 23.91 | 23.91 | 114.55 | 6852.56 | 6825.97 | 257.71 | |
| 1000.00 | 968.06 | 0.00 | 0.00 | 993.06 | 26.87 | 26.87 | 114.55 | 6862.11 | 6832.15 | 229.07 | |
| 1100.00 | 1064.64 | 0.00 | 0.00 | 1089.64 | 29.80 | 29.80 | 114.53 | 6873.17 | 6839.82 | 206.06 | |
| 1200.00 | 1160.27 | 0.00 | 0.00 | 1185.27 | 32.71 | 32.71 | 114.52 | 6885.76 | 6848.99 | 187.23 | |
| 1300.00 | 1254.82 | 0.00 | 0.00 | 1279.82 | 35.58 | 35.58 | 114.49 | 6899.90 | 6859.68 | 171.53 | |
| 1400.00 | 1348.37 | 0.00 | 0.00 | 1373.37 | 38.42 | 38.42 | 114.62 | 6915.39 | 6871.68 | 158.21 | |
| 1500.00 | 1441.80 | 0.00 | 0.00 | 1466.80 | 41.25 | 41.25 | 114.87 | 6931.16 | 6883.97 | 146.88 | |
| 1600.00 | 1535.23 | 0.00 | 0.00 | 1560.23 | 44.09 | 44.09 | 115.13 | 6947.07 | 6896.40 | 137.10 | |
| 1700.00 | 1628.66 | 0.00 | 0.00 | 1653.66 | 46.93 | 46.93 | 115.38 | 6963.14 | 6908.99 | 128.58 | |
| 1800.00 | 1722.09 | 0.00 | 0.00 | 1747.09 | 49.77 | 49.77 | 115.63 | 6979.35 | 6921.71 | 121.09 | |
| 1900.00 | 1815.52 | 0.00 | 0.00 | 1840.52 | 52.60 | 52.60 | 115.88 | 6995.70 | 6934.58 | 114.46 | |
| 2000.00 | 1908.96 | 0.00 | 0.00 | 1933.96 | 55.44 | 55.44 | 116.13 | 7012.20 | 6947.60 | 108.55 | |
| 2100.00 | 2002.39 | 0.00 | 0.00 | 2027.39 | 58.28 | 58.28 | 116.37 | 7028.83 | 6960.75 | 103.24 | |
| 2200.00 | 2095.82 | 0.00 | 0.00 | 2120.82 | 61.12 | 61.12 | 116.62 | 7045.61 | 6974.06 | 98.46 | |
| 2300.00 | 2189.25 | 0.00 | 0.00 | 2214.25 | 63.95 | 63.95 | 116.86 | 7062.53 | 6987.50 | 94.13 | |
| 2400.00 | 2282.68 | 0.00 | 0.00 | 2307.68 | 66.79 | 66.79 | 117.11 | 7079.59 | 7001.09 | 90.18 | |
| 2500.00 | 2376.11 | 0.00 | 0.00 | 2401.11 | 69.63 | 69.63 | 117.35 | 7096.79 | 7014.81 | 86.58 | |
| 2600.00 | 2469.55 | 0.00 | 0.00 | 2494.55 | 72.47 | 72.47 | 117.59 | 7114.12 | 7028.69 | 83.27 | |
| 2700.00 | 2562.98 | 0.00 | 0.00 | 2587.98 | 75.30 | 75.30 | 117.83 | 7131.59 | 7042.70 | 80.23 | |
| 2800.00 | 2656.41 | 0.00 | 0.00 | 2681.41 | 78.14 | 78.14 | 118.07 | 7149.19 | 7056.85 | 77.42 | |
| 2900.00 | 2749.84 | 0.00 | 0.00 | 2774.84 | 80.98 | 80.98 | 118.31 | 7166.93 | 7071.14 | 74.82 | |
| 3000.00 | 2843.27 | 0.00 | 0.00 | 2868.27 | 83.82 | 83.82 | 118.55 | 7184.80 | 7085.56 | 72.40 | |
| 3100.00 | 2936.70 | 0.00 | 0.00 | 2961.70 | 86.65 | 86.65 | 118.79 | 7202.80 | 7100.13 | 70.15 | |
| 3200.00 | 3030.14 | 0.00 | 0.00 | 3055.14 | 89.49 | 89.49 | 119.02 | 7220.94 | 7114.83 | 68.05 | |
| 3300.00 | 3123.57 | 0.00 | 0.00 | 3148.57 | 92.33 | 92.33 | 119.26 | 7239.20 | 7129.65 | 66.08 | |
| 3400.00 | 3217.00 | 0.00 | 0.00 | 3242.00 | 95.17 | 95.17 | 119.49 | 7257.60 | 7144.55 | 64.20 | |
| 3500.00 | 3310.43 | 0.00 | 0.00 | 3335.43 | 98.00 | 98.00 | 119.72 | 7276.12 | 7159.58 | 62.44 | |
| 3600.00 | 3403.86 | 0.00 | 0.00 | 3428.86 | 100.84 | 100.84 | 119.95 | 7294.77 | 7174.74 | 60.78 | |
| 3700.00 | 3497.29 | 0.00 | 0.00 | 3522.29 | 103.68 | 103.68 | 120.18 | 7313.54 | 7190.03 | 59.21 | |
| 3800.00 | 3590.73 | 0.00 | 0.00 | 3615.73 | 106.52 | 106.52 | 120.41 | 7332.44 | 7205.45 | 57.74 | |
| 3900.00 | 3684.16 | 0.00 | 0.00 | 3709.16 | 109.35 | 109.35 | 120.64 | 7351.47 | 7220.99 | 56.34 | |
| 4000.00 | 3777.59 | 0.00 | 0.00 | 3802.59 | 112.19 | 112.19 | 120.87 | 7370.61 | 7236.66 | 55.02 | |
| 4100.00 | 3871.02 | 0.00 | 0.00 | 3896.02 | 115.03 | 115.03 | 121.09 | 7389.88 | 7252.46 | 53.77 | |
| 4200.00 | 3964.45 | 0.00 | 0.00 | 3989.45 | 117.86 | 117.86 | 121.32 | 7409.27 | 7268.38 | 52.59 | |
| 4300.00 | 4057.88 | 0.00 | 0.00 | 4082.88 | 120.70 | 120.70 | 121.54 | 7428.79 | 7284.42 | 51.46 | |
| 4400.00 | 4151.32 | 0.00 | 0.00 | 4176.32 | 123.54 | 123.54 | 121.77 | 7448.42 | 7300.59 | 50.38 | |
| 4500.00 | 4244.75 | 0.00 | 0.00 | 4269.75 | 126.38 | 126.38 | 121.99 | 7468.17 | 7316.88 | 49.36 | |
| 4600.00 | 4338.18 | 0.00 | 0.00 | 4363.18 | 129.21 | 129.21 | 122.21 | 7488.03 | 7333.29 | 48.39 | |
| 4700.00 | 4431.61 | 0.00 | 0.00 | 4456.61 | 132.05 | 132.05 | 122.43 | 7508.02 | 7349.82 | 47.46 | |
| 4800.00 | 4525.04 | 0.00 | 0.00 | 4550.04 | 134.89 | 134.89 | 122.65 | 7528.12 | 7366.47 | 46.57 | |
| 4900.00 | 4618.47 | 0.00 | 0.00 | 4643.47 | 137.73 | 137.73 | 122.86 | 7548.33 | 7383.23 | 45.72 | |
| 5000.00 | 4711.91 | 0.00 | 0.00 | 4736.91 | 140.56 | 140.56 | 123.08 | 7568.66 | 7400.12 | 44.91 | |
| 5100.00 | 4805.34 | 0.00 | 0.00 | 4830.34 | 143.40 | 143.40 | 123.29 | 7589.10 | 7417.12 | 44.13 | |
| 5200.00 | 4898.77 | 0.00 | 0.00 | 4923.77 | 146.24 | 146.24 | 123.51 | 7609.65 | 7434.25 | 43.38 | |
| 5300.00 | 4992.20 | 0.00 | 0.00 | 5017.20 | 149.08 | 149.08 | 123.72 | 7630.32 | 7451.48 | 42.67 | |
| 5400.00 | 5085.63 | 0.00 | 0.00 | 5110.63 | 151.91 | 151.91 | 123.93 | 7651.09 | 7468.83 | 41.98 | |
| 5500.00 | 5179.06 | 0.00 | 0.00 | 5204.06 | 154.75 | 154.75 | 124.14 | 7671.98 | 7486.30 | 41.32 | |
| 5600.00 | 5272.50 | 0.00 | 0.00 | 5297.50 | 157.59 | 157.59 | 124.35 | 7692.97 | 7503.87 | 40.68 | |
| 5700.00 | 5365.93 | 0.00 | 0.00 | 5390.93 | 160.43 | 160.43 | 124.56 | 7714.07 | 7521.56 | 40.07 | |
| 5800.00 | 5459.36 | 0.00 | 0.00 | 5484.36 | 163.26 | 163.26 | 124.77 | 7735.28 | 7539.37 | 39.48 | |
| 5900.00 | 5552.79 | 0.00 | 0.00 | 5577.79 | 166.10 | 166.10 | 124.98 | 7756.59 | 7557.28 | 38.92 | |
| 6000.00 | 5646.22 | 0.00 | 0.00 | 5671.22 | 168.94 | 168.94 | 125.18 | 7778.01 | 7575.30 | 38.37 | |
| 6100.00 | 5739.65 | 0.00 | 0.00 | 5764.65 | 171.78 | 171.78 | 125.39 | 7799.53 | 7593.43 | 37.84 | |
| 6200.00 | 5833.09 | 0.00 | 0.00 | 5858.09 | 174.61 | 174.61 | 125.59 | 7821.15 | 7611.67 | 37.34 | |
| 6300.00 | 5926.52 | 0.00 | 0.00 | 5951.52 | 177.45 | 177.45 | 125.80 | 7842.88 | 7630.02 | 36.85 | |
| 6400.00 | 6019.95 | 0.00 | 0.00 | 6044.95 | 180.29 | 180.29 | 126.00 | 7864.71 | 7648.47 | 36.37 | |
| 6500.00 | 6113.38 | 0.00 | 0.00 | 6138.38 | 183.12 | 183.12 | 126.20 | 7886.64 | 7667.04 | 35.91 | |
| 6600.00 | 6206.81 | 0.00 | 0.00 | 6231.81 | 185.96 | 185.96 | 126.40 | 7908.67 | 7685.70 | 35.47 | |

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 |
| 6700.00 | 6300.98 | 0.00 | 0.00 | 6325.98 | 188.82 | 188.82 | 108.76 | 7925.89 | 7699.61 | 35.03 | |
| 6800.00 | 6396.13 | 0.00 | 0.00 | 6421.13 | 191.71 | 191.71 | 84.39 | 7929.58 | 7700.08 | 34.55 | |
| 6900.00 | 6490.44 | 0.00 | 0.00 | 6515.44 | 194.58 | 194.58 | 63.69 | 7919.53 | 7686.86 | 34.04 | |
| 7000.00 | 6582.08 | 0.00 | 0.00 | 6607.08 | 197.36 | 197.36 | 49.95 | 7895.93 | 7660.23 | 33.50 | |
| 7100.00 | 6669.25 | 0.00 | 0.00 | 6694.25 | 200.01 | 200.01 | 41.54 | 7859.25 | 7620.70 | 32.95 | |
| 7200.00 | 6750.27 | 0.00 | 0.00 | 6775.27 | 202.47 | 202.47 | 36.53 | 7810.22 | 7569.02 | 32.38 | |
| 7300.00 | 6823.56 | 0.00 | 0.00 | 6848.56 | 204.69 | 204.69 | 33.77 | 7749.76 | 7506.19 | 31.82 | |
| 7400.00 | 6887.68 | 0.00 | 0.00 | 6912.68 | 206.64 | 206.64 | 32.72 | 7679.05 | 7433.40 | 31.26 | |
| 7500.00 | 6941.40 | 0.00 | 0.00 | 6966.40 | 208.27 | 208.27 | 33.32 | 7599.44 | 7352.03 | 30.72 | |
| 7600.00 | 6983.67 | 0.00 | 0.00 | 7008.67 | 209.55 | 209.55 | 36.04 | 7512.46 | 7263.64 | 30.19 | |
| 7700.00 | 7013.66 | 0.00 | 0.00 | 7038.66 | 210.47 | 210.47 | 42.58 | 7419.78 | 7169.92 | 29.70 | |
| 7800.00 | 7030.79 | 0.00 | 0.00 | 7055.79 | 210.99 | 210.99 | 58.76 | 7323.17 | 7072.66 | 29.23 | |
| 7900.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 7224.49 | 6973.72 | 28.81 | |
| 8000.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 7125.49 | 6874.53 | 28.39 | |
| 8100.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 7026.51 | 6775.38 | 27.98 | |
| 8200.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 6927.57 | 6676.28 | 27.57 | |
| 8300.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 6828.66 | 6577.22 | 27.16 | |
| 8400.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 6729.78 | 6478.00 | 26.73 | |
| 8500.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 6630.93 | 6378.92 | 26.31 | |
| 8600.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 6532.12 | 6279.89 | 25.90 | |
| 8700.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 6433.34 | 6180.93 | 25.49 | |
| 8800.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 6334.61 | 6081.83 | 25.06 | |
| 8900.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 6235.91 | 5982.97 | 24.65 | |
| 9000.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 6137.26 | 5883.88 | 24.22 | |
| 9100.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 6038.65 | 5784.97 | 23.80 | |
| 9200.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 5940.09 | 5686.14 | 23.39 | |
| 9300.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 5841.57 | 5587.37 | 22.98 | |
| 9400.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 5743.11 | 5488.52 | 22.56 | |
| 9500.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 5644.70 | 5389.69 | 22.14 | |
| 9600.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 5546.35 | 5290.92 | 21.71 | |
| 9700.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 5448.06 | 5192.22 | 21.30 | |
| 9800.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 5349.83 | 5093.58 | 20.88 | |
| 9900.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 5251.67 | 4995.01 | 20.46 | |
| 10000.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 5153.58 | 4896.50 | 20.05 | |
| 10100.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 5055.56 | 4798.01 | 19.63 | |
| 10200.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 4957.62 | 4699.56 | 19.21 | |
| 10300.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 4859.77 | 4601.06 | 18.78 | |
| 10400.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 4762.01 | 4502.64 | 18.36 | |
| 10500.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 4664.34 | 4404.31 | 17.94 | |
| 10600.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 4566.77 | 4306.06 | 17.52 | |
| 10700.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 4469.31 | 4207.91 | 17.10 | |
| 10800.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 4371.96 | 4109.86 | 16.68 | |
| 10900.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 4274.74 | 4011.94 | 16.27 | |
| 11000.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 4177.65 | 3914.14 | 15.85 | |
| 11100.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 4080.70 | 3816.31 | 15.43 | |
| 11200.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 3983.89 | 3718.61 | 15.02 | |
| 11300.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 3887.26 | 3621.09 | 14.60 | |
| 11400.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 3790.79 | 3523.57 | 14.19 | |
| 11500.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 3694.51 | 3426.23 | 13.77 | |
| 11600.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 3598.44 | 3329.13 | 13.36 | |
| 11700.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 3502.59 | 3232.00 | 12.94 | |
| 11800.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 3406.97 | 3135.12 | 12.53 | |
| 11900.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 3311.62 | 3038.55 | 12.13 | |
| 12000.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 3216.54 | 2942.10 | 11.72 | |
| 12100.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 3121.77 | 2845.50 | 11.30 | |
| 12200.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 3027.34 | 2749.03 | 10.88 | |
| 12300.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 2933.28 | 2652.91 | 10.46 | |
| 12400.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 2839.63 | 2557.17 | 10.05 | |

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 |
| 12500.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 2746.42 | 2461.82 | 9.65 | |
| 12600.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 2653.71 | 2366.54 | 9.24 | |
| 12700.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 2561.55 | 2271.66 | 8.84 | |
| 12800.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 2469.99 | 2177.26 | 8.44 | |
| 12900.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 2379.12 | 2083.43 | 8.05 | |
| 13000.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 2289.00 | 1990.22 | 7.66 | |
| 13100.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 2199.74 | 1897.75 | 7.28 | |
| 13200.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 2111.45 | 1805.72 | 6.91 | |
| 13300.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 2024.24 | 1714.17 | 6.53 | |
| 13400.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 1938.27 | 1623.68 | 6.16 | |
| 13500.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 1853.71 | 1534.41 | 5.81 | |
| 13600.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 1770.76 | 1446.53 | 5.46 | |
| 13700.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 1689.65 | 1359.90 | 5.12 | |
| 13800.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 1610.67 | 1274.70 | 4.79 | |
| 13900.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 1534.14 | 1190.99 | 4.47 | |
| 14000.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 1460.46 | 1110.05 | 4.17 | |
| 14100.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 1390.06 | 1032.50 | 3.89 | |
| 14200.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 1323.49 | 957.88 | 3.62 | |
| 14300.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 1261.33 | 887.21 | 3.37 | |
| 14400.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 1204.28 | 822.40 | 3.15 | |
| 14500.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 1153.10 | 762.56 | 2.95 | |
| 14600.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 1108.59 | 709.87 | 2.78 | |
| 14700.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 1071.59 | 665.01 | 2.64 | |
| 14800.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 1042.91 | 629.74 | 2.52 | |
| 14900.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 1023.23 | 604.64 | 2.44 | SF(Lo) |
| 15000.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 1013.08 | 591.49 | 2.40 | SF(Lo) |
| 15100.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 1012.76 | 589.24 | 2.39 | SF(Lo) |
| 15200.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 1022.26 | 600.11 | 2.42 | SF(Lo) |
| 15300.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 1041.32 | 621.02 | 2.48 | SF(Lo) |
| 15400.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 1069.44 | 653.88 | 2.57 | |
| 15500.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 1105.91 | 695.26 | 2.69 | |
| 15600.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 1149.94 | 745.85 | 2.85 | |
| 15700.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 1200.71 | 802.44 | 3.01 | |
| 15768.80 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 1239.12 | 845.68 | 3.15 | |
| 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 | 254.71 | 5760.59 | 5759.87 | 7911.90 | |
| 100.00 | 67.00 | 0.00 | 0.00 | 100.00 | 1.02 | 1.02 | 254.71 | 5760.50 | 5758.65 | 3111.90 | |
| 200.00 | 167.00 | 0.00 | 0.00 | 200.00 | 2.54 | 2.54 | 254.71 | 5760.50 | 5756.91 | 1603.59 | |
| 300.00 | 267.00 | 0.00 | 0.00 | 300.00 | 5.58 | 5.58 | 254.71 | 5760.50 | 5753.66 | 841.82 | |
| 400.00 | 366.98 | 0.00 | 0.00 | 399.98 | 8.61 | 8.61 | 110.60 | 5761.11 | 5751.04 | 572.01 | |
| 500.00 | 466.84 | 0.00 | 0.00 | 499.84 | 11.65 | 11.65 | 110.61 | 5762.96 | 5749.84 | 439.19 | |
| 600.00 | 566.45 | 0.00 | 0.00 | 599.45 | 14.67 | 14.67 | 110.64 | 5766.04 | 5749.67 | 352.33 | |
| 700.00 | 665.70 | 0.00 | 0.00 | 698.70 | 17.69 | 17.69 | 110.67 | 5770.37 | 5750.73 | 293.89 | |
| 800.00 | 764.47 | 0.00 | 0.00 | 797.47 | 20.69 | 20.69 | 110.71 | 5775.95 | 5753.01 | 251.80 | |
| 900.00 | 862.62 | 0.00 | 0.00 | 895.62 | 23.67 | 23.67 | 110.75 | 5782.82 | 5756.54 | 220.07 | |
| 1000.00 | 960.06 | 0.00 | 0.00 | 993.06 | 26.62 | 26.62 | 110.80 | 5790.98 | 5761.33 | 195.31 | |
| 1100.00 | 1056.64 | 0.00 | 0.00 | 1089.64 | 29.56 | 29.56 | 110.86 | 5800.46 | 5767.40 | 175.44 | |
| 1200.00 | 1152.27 | 0.00 | 0.00 | 1185.27 | 32.46 | 32.46 | 110.91 | 5811.30 | 5774.79 | 159.18 | |
| 1300.00 | 1246.82 | 0.00 | 0.00 | 1279.82 | 35.33 | 35.33 | 110.97 | 5823.51 | 5783.56 | 145.75 | |
| 1400.00 | 1340.37 | 0.00 | 0.00 | 1373.37 | 38.17 | 38.17 | 111.16 | 5836.94 | 5793.48 | 134.30 | |
| 1500.00 | 1433.80 | 0.00 | 0.00 | 1466.80 | 41.01 | 41.01 | 111.47 | 5850.68 | 5803.71 | 124.56 | |
| 1600.00 | 1527.23 | 0.00 | 0.00 | 1560.23 | 43.85 | 43.85 | 111.78 | 5864.60 | 5814.12 | 116.17 | |
| 1700.00 | 1620.66 | 0.00 | 0.00 | 1653.66 | 46.69 | 46.69 | 112.08 | 5878.71 | 5824.71 | 108.87 | |
| 1800.00 | 1714.09 | 0.00 | 0.00 | 1747.09 | 49.52 | 49.52 | 112.38 | 5892.99 | 5835.48 | 102.46 | |
| 1900.00 | 1807.52 | 0.00 | 0.00 | 1840.52 | 52.36 | 52.36 | 112.68 | 5907.46 | 5846.43 | 96.80 | |

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 |
| 2000.00 | 1900.96 | 0.00 | 0.00 | 1933.96 | 55.20 | 55.20 | 112.99 | 5922.10 | 5857.56 | 91.75 | |
| 2100.00 | 1994.39 | 0.00 | 0.00 | 2027.39 | 58.04 | 58.04 | 113.28 | 5936.93 | 5868.87 | 87.23 | |
| 2200.00 | 2087.82 | 0.00 | 0.00 | 2120.82 | 60.87 | 60.87 | 113.58 | 5951.93 | 5880.36 | 83.16 | |
| 2300.00 | 2181.25 | 0.00 | 0.00 | 2214.25 | 63.71 | 63.71 | 113.88 | 5967.10 | 5892.03 | 79.48 | |
| 2400.00 | 2274.68 | 0.00 | 0.00 | 2307.68 | 66.55 | 66.55 | 114.17 | 5982.45 | 5903.87 | 76.13 | |
| 2500.00 | 2368.11 | 0.00 | 0.00 | 2401.11 | 69.39 | 69.39 | 114.47 | 5997.97 | 5915.89 | 73.07 | |
| 2600.00 | 2461.55 | 0.00 | 0.00 | 2494.55 | 72.22 | 72.22 | 114.76 | 6013.67 | 5928.09 | 70.27 | |
| 2700.00 | 2554.98 | 0.00 | 0.00 | 2587.98 | 75.06 | 75.06 | 115.05 | 6029.53 | 5940.46 | 67.70 | |
| 2800.00 | 2648.41 | 0.00 | 0.00 | 2681.41 | 77.90 | 77.90 | 115.34 | 6045.56 | 5953.01 | 65.32 | |
| 2900.00 | 2741.84 | 0.00 | 0.00 | 2774.84 | 80.74 | 80.74 | 115.63 | 6061.76 | 5965.73 | 63.12 | |
| 3000.00 | 2835.27 | 0.00 | 0.00 | 2868.27 | 83.57 | 83.57 | 115.92 | 6078.12 | 5978.62 | 61.08 | |
| 3100.00 | 2928.70 | 0.00 | 0.00 | 2961.70 | 86.41 | 86.41 | 116.20 | 6094.65 | 5991.68 | 59.18 | |
| 3200.00 | 3022.14 | 0.00 | 0.00 | 3055.14 | 89.25 | 89.25 | 116.49 | 6111.35 | 6004.90 | 57.42 | |
| 3300.00 | 3115.57 | 0.00 | 0.00 | 3148.57 | 92.09 | 92.09 | 116.77 | 6128.20 | 6018.30 | 55.76 | |
| 3400.00 | 3209.00 | 0.00 | 0.00 | 3242.00 | 94.92 | 94.92 | 117.05 | 6145.21 | 6031.87 | 54.22 | |
| 3500.00 | 3302.43 | 0.00 | 0.00 | 3335.43 | 97.76 | 97.76 | 117.33 | 6162.39 | 6045.60 | 52.76 | |
| 3600.00 | 3395.86 | 0.00 | 0.00 | 3428.86 | 100.60 | 100.60 | 117.61 | 6179.72 | 6059.49 | 51.40 | |
| 3700.00 | 3489.29 | 0.00 | 0.00 | 3522.29 | 103.43 | 103.43 | 117.89 | 6197.21 | 6073.55 | 50.12 | |
| 3800.00 | 3582.73 | 0.00 | 0.00 | 3615.73 | 106.27 | 106.27 | 118.16 | 6214.85 | 6087.77 | 48.91 | |
| 3900.00 | 3676.16 | 0.00 | 0.00 | 3709.16 | 109.11 | 109.11 | 118.44 | 6232.65 | 6102.16 | 47.76 | |
| 4000.00 | 3769.59 | 0.00 | 0.00 | 3802.59 | 111.95 | 111.95 | 118.71 | 6250.60 | 6116.70 | 46.68 | |
| 4100.00 | 3863.02 | 0.00 | 0.00 | 3896.02 | 114.78 | 114.78 | 118.98 | 6268.70 | 6131.40 | 45.66 | |
| 4200.00 | 3956.45 | 0.00 | 0.00 | 3989.45 | 117.62 | 117.62 | 119.25 | 6286.95 | 6146.25 | 44.68 | |
| 4300.00 | 4049.88 | 0.00 | 0.00 | 4082.88 | 120.46 | 120.46 | 119.52 | 6305.35 | 6161.16 | 43.73 | |
| 4400.00 | 4143.32 | 0.00 | 0.00 | 4176.32 | 123.30 | 123.30 | 119.79 | 6323.90 | 6176.21 | 42.82 | |
| 4500.00 | 4236.75 | 0.00 | 0.00 | 4269.75 | 126.13 | 126.13 | 120.05 | 6342.59 | 6191.42 | 41.96 | |
| 4600.00 | 4330.18 | 0.00 | 0.00 | 4363.18 | 128.97 | 128.97 | 120.32 | 6361.43 | 6206.78 | 41.13 | |
| 4700.00 | 4423.61 | 0.00 | 0.00 | 4456.61 | 131.81 | 131.81 | 120.58 | 6380.41 | 6222.28 | 40.35 | |
| 4800.00 | 4517.04 | 0.00 | 0.00 | 4550.04 | 134.65 | 134.65 | 120.84 | 6399.53 | 6237.93 | 39.60 | |
| 4900.00 | 4610.47 | 0.00 | 0.00 | 4643.47 | 137.48 | 137.48 | 121.10 | 6418.80 | 6253.73 | 38.89 | |
| 5000.00 | 4703.91 | 0.00 | 0.00 | 4736.91 | 140.32 | 140.32 | 121.36 | 6438.20 | 6269.67 | 38.20 | |
| 5100.00 | 4797.34 | 0.00 | 0.00 | 4830.34 | 143.16 | 143.16 | 121.62 | 6457.75 | 6285.75 | 37.55 | |
| 5200.00 | 4890.77 | 0.00 | 0.00 | 4923.77 | 146.00 | 146.00 | 121.87 | 6477.43 | 6301.98 | 36.92 | |
| 5300.00 | 4984.20 | 0.00 | 0.00 | 5017.20 | 148.83 | 148.83 | 122.13 | 6497.24 | 6318.34 | 36.32 | |
| 5400.00 | 5077.63 | 0.00 | 0.00 | 5110.63 | 151.67 | 151.67 | 122.38 | 6517.19 | 6334.85 | 35.74 | |
| 5500.00 | 5171.06 | 0.00 | 0.00 | 5204.06 | 154.51 | 154.51 | 122.63 | 6537.28 | 6351.50 | 35.19 | |
| 5600.00 | 5264.50 | 0.00 | 0.00 | 5297.50 | 157.35 | 157.35 | 122.88 | 6557.49 | 6368.28 | 34.66 | |
| 5700.00 | 5357.93 | 0.00 | 0.00 | 5390.93 | 160.18 | 160.18 | 123.13 | 6577.84 | 6385.20 | 34.15 | |
| 5800.00 | 5451.36 | 0.00 | 0.00 | 5484.36 | 163.02 | 163.02 | 123.38 | 6598.32 | 6402.26 | 33.65 | |
| 5900.00 | 5544.79 | 0.00 | 0.00 | 5577.79 | 165.86 | 165.86 | 123.63 | 6618.92 | 6419.45 | 33.18 | |
| 6000.00 | 5638.22 | 0.00 | 0.00 | 5671.22 | 168.69 | 168.69 | 123.87 | 6639.66 | 6436.77 | 32.73 | |
| 6100.00 | 5731.65 | 0.00 | 0.00 | 5764.65 | 171.53 | 171.53 | 124.11 | 6660.52 | 6454.22 | 32.29 | |
| 6200.00 | 5825.09 | 0.00 | 0.00 | 5858.09 | 174.37 | 174.37 | 124.35 | 6681.50 | 6471.81 | 31.86 | |
| 6300.00 | 5918.52 | 0.00 | 0.00 | 5951.52 | 177.21 | 177.21 | 124.60 | 6702.61 | 6489.53 | 31.46 | |
| 6400.00 | 6011.95 | 0.00 | 0.00 | 6044.95 | 180.04 | 180.04 | 124.83 | 6723.84 | 6507.37 | 31.06 | |
| 6500.00 | 6105.38 | 0.00 | 0.00 | 6138.38 | 182.88 | 182.88 | 125.07 | 6745.19 | 6525.35 | 30.68 | |
| 6600.00 | 6198.81 | 0.00 | 0.00 | 6231.81 | 185.72 | 185.72 | 125.31 | 6766.67 | 6543.45 | 30.31 | |
| 6700.00 | 6292.98 | 0.00 | 0.00 | 6325.98 | 188.58 | 188.58 | 107.73 | 6783.34 | 6556.81 | 29.94 | |
| 6800.00 | 6388.13 | 0.00 | 0.00 | 6421.13 | 191.47 | 191.47 | 83.41 | 6786.47 | 6556.71 | 29.54 | |
| 6900.00 | 6482.44 | 0.00 | 0.00 | 6515.44 | 194.33 | 194.33 | 62.73 | 6775.86 | 6542.94 | 29.09 | |
| 7000.00 | 6574.08 | 0.00 | 0.00 | 6607.08 | 197.12 | 197.12 | 48.99 | 6751.72 | 6515.77 | 28.62 | |
| 7100.00 | 6661.25 | 0.00 | 0.00 | 6694.25 | 199.76 | 199.76 | 40.58 | 6714.52 | 6475.72 | 28.12 | |
| 7200.00 | 6742.27 | 0.00 | 0.00 | 6775.27 | 202.22 | 202.22 | 35.54 | 6664.98 | 6423.55 | 27.61 | |
| 7300.00 | 6815.56 | 0.00 | 0.00 | 6848.56 | 204.45 | 204.45 | 32.72 | 6604.06 | 6360.26 | 27.09 | |
| 7400.00 | 6879.68 | 0.00 | 0.00 | 6912.68 | 206.40 | 206.40 | 31.57 | 6532.92 | 6287.05 | 26.57 | |
| 7500.00 | 6933.40 | 0.00 | 0.00 | 6966.40 | 208.03 | 208.03 | 32.02 | 6452.92 | 6205.31 | 26.06 | |
| 7600.00 | 6975.67 | 0.00 | 0.00 | 7008.67 | 209.31 | 209.31 | 34.50 | 6365.60 | 6116.59 | 25.56 | |
| 7700.00 | 7005.66 | 0.00 | 0.00 | 7038.66 | 210.22 | 210.22 | 40.69 | 6272.63 | 6022.58 | 25.09 | |

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 |
| 7800.00 | 7022.79 | 0.00 | 0.00 | 7055.79 | 210.74 | 210.74 | 56.68 | 6175.77 | 5925.10 | 24.64 | |
| 7900.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 6076.90 | 5825.99 | 24.22 | |
| 8000.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 5977.73 | 5726.72 | 23.81 | |
| 8100.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 5878.58 | 5627.48 | 23.41 | |
| 8200.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 5779.47 | 5528.29 | 23.01 | |
| 8300.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 5680.38 | 5429.17 | 22.61 | |
| 8400.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 5581.33 | 5329.91 | 22.20 | |
| 8500.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 5482.31 | 5230.67 | 21.79 | |
| 8600.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 5383.33 | 5131.47 | 21.37 | |
| 8700.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 5284.39 | 5032.34 | 20.97 | |
| 8800.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 5185.48 | 4933.14 | 20.55 | |
| 8900.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 5086.63 | 4834.08 | 20.14 | |
| 9000.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 4987.81 | 4734.87 | 19.72 | |
| 9100.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 4889.04 | 4635.78 | 19.30 | |
| 9200.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 4790.33 | 4536.79 | 18.89 | |
| 9300.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 4691.67 | 4437.87 | 18.49 | |
| 9400.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 4593.07 | 4338.94 | 18.07 | |
| 9500.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 4494.53 | 4239.96 | 17.66 | |
| 9600.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 4396.05 | 4141.06 | 17.24 | |
| 9700.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 4297.65 | 4042.22 | 16.83 | |
| 9800.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 4199.32 | 3943.46 | 16.41 | |
| 9900.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 4101.07 | 3844.77 | 16.00 | |
| 10000.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 4002.91 | 3746.17 | 15.59 | |
| 10100.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 3904.84 | 3647.60 | 15.18 | |
| 10200.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 3806.87 | 3549.09 | 14.77 | |
| 10300.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 3709.01 | 3450.53 | 14.35 | |
| 10400.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 3611.27 | 3352.08 | 13.93 | |
| 10500.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 3513.65 | 3253.73 | 13.52 | |
| 10600.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 3416.18 | 3155.50 | 13.10 | |
| 10700.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 3318.85 | 3057.40 | 12.69 | |
| 10800.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 3221.69 | 2959.45 | 12.29 | |
| 10900.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 3124.70 | 2861.66 | 11.88 | |
| 11000.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 3027.91 | 2763.91 | 11.47 | |
| 11100.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 2931.34 | 2666.28 | 11.06 | |
| 11200.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 2835.01 | 2568.88 | 10.65 | |
| 11300.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 2738.94 | 2471.73 | 10.25 | |
| 11400.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 2643.15 | 2374.80 | 9.85 | |
| 11500.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 2547.70 | 2278.05 | 9.45 | |
| 11600.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 2452.60 | 2181.12 | 9.03 | |
| 11700.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 2357.92 | 2084.34 | 8.62 | |
| 11800.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 2263.69 | 1987.99 | 8.21 | |
| 11900.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 2169.97 | 1892.14 | 7.81 | |
| 12000.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 2076.84 | 1796.36 | 7.40 | |
| 12100.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 1984.38 | 1701.18 | 7.01 | |
| 12200.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 1892.69 | 1606.66 | 6.62 | |
| 12300.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 1801.88 | 1512.92 | 6.24 | |
| 12400.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 1712.10 | 1419.73 | 5.86 | |
| 12500.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 1623.51 | 1327.27 | 5.48 | |
| 12600.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 1536.32 | 1235.24 | 5.10 | |
| 12700.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 1450.78 | 1144.65 | 4.74 | |
| 12800.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 1367.21 | 1055.86 | 4.39 | |
| 12900.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 1285.99 | 969.29 | 4.06 | |
| 13000.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 1207.59 | 883.99 | 3.73 | |
| 13100.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 1132.60 | 801.17 | 3.42 | |
| 13200.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 1061.73 | 722.57 | 3.13 | |
| 13300.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 995.88 | 647.78 | 2.86 | |
| 13400.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 936.10 | 579.20 | 2.62 | |
| 13500.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 883.62 | 517.82 | 2.42 | SF(L0) |

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 |
| 13600.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 839.81 | 465.84 | 2.25 | SF(Lo) |
| 13700.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 806.09 | 423.85 | 2.11 | SF(Lo) |
| 13800.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 783.76 | 395.87 | 2.02 | SF(Lo) |
| 13900.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 773.81 | 383.29 | 1.98 | SF(Lo) |
| 14000.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 776.71 | 385.31 | 1.98 | SF(Lo) |
| 14100.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 792.33 | 403.39 | 2.04 | SF(Lo) |
| 14200.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 819.93 | 436.47 | 2.14 | SF(Lo) |
| 14300.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 858.36 | 480.84 | 2.27 | SF(Lo) |
| 14400.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 906.25 | 535.85 | 2.45 | SF(Lo) |
| 14500.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 962.18 | 599.92 | 2.66 | |
| 14600.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 1024.83 | 670.23 | 2.89 | |
| 14700.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 1093.06 | 746.16 | 3.15 | |
| 14800.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 1165.88 | 826.84 | 3.44 | |
| 14900.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 1242.49 | 909.62 | 3.73 | |
| 15000.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 1322.23 | 995.17 | 4.04 | |
| 15100.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 1404.56 | 1083.24 | 4.37 | |
| 15200.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 1489.06 | 1172.80 | 4.71 | |
| 15300.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 1575.37 | 1263.16 | 5.05 | |
| 15400.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 1663.22 | 1354.92 | 5.39 | |
| 15500.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 1752.37 | 1447.81 | 5.75 | |
| 15600.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 1842.63 | 1541.64 | 6.12 | |
| 15700.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 1933.85 | 1636.25 | 6.50 | |
| 15768.80 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 1997.10 | 1701.52 | 6.76 | |
| 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 | 240.16 | 3135.89 | 3135.17 | 4306.92 | |
| 100.00 | 67.00 | 0.00 | 0.00 | 100.00 | 1.02 | 1.02 | 240.16 | 3135.72 | 3133.87 | 1690.47 | |
| 200.00 | 167.00 | 0.00 | 0.00 | 200.00 | 2.54 | 2.54 | 240.16 | 3135.72 | 3132.12 | 870.56 | |
| 300.00 | 267.00 | 0.00 | 0.00 | 300.00 | 5.58 | 5.58 | 240.16 | 3135.72 | 3128.86 | 456.86 | |
| 400.00 | 366.98 | 0.00 | 0.00 | 399.98 | 8.61 | 8.61 | 96.08 | 3135.91 | 3125.81 | 310.47 | |
| 500.00 | 466.84 | 0.00 | 0.00 | 499.84 | 11.65 | 11.65 | 96.16 | 3136.46 | 3123.30 | 238.28 | |
| 600.00 | 566.45 | 0.00 | 0.00 | 599.45 | 14.67 | 14.67 | 96.30 | 3137.41 | 3120.99 | 191.04 | |
| 700.00 | 665.70 | 0.00 | 0.00 | 698.70 | 17.69 | 17.69 | 96.49 | 3138.78 | 3119.07 | 159.26 | |
| 800.00 | 764.47 | 0.00 | 0.00 | 797.47 | 20.69 | 20.69 | 96.74 | 3140.61 | 3117.58 | 136.39 | |
| 900.00 | 862.62 | 0.00 | 0.00 | 895.62 | 23.67 | 23.67 | 97.03 | 3142.93 | 3116.56 | 119.15 | |
| 1000.00 | 960.06 | 0.00 | 0.00 | 993.06 | 26.62 | 26.62 | 97.37 | 3145.83 | 3116.06 | 105.70 | |
| 1100.00 | 1056.64 | 0.00 | 0.00 | 1089.64 | 29.56 | 29.56 | 97.75 | 3149.35 | 3116.17 | 94.91 | |
| 1200.00 | 1152.27 | 0.00 | 0.00 | 1185.27 | 32.46 | 32.46 | 98.17 | 3153.58 | 3116.95 | 86.09 | |
| 1300.00 | 1246.82 | 0.00 | 0.00 | 1279.82 | 35.33 | 35.33 | 98.62 | 3158.60 | 3118.49 | 78.74 | |
| 1400.00 | 1340.37 | 0.00 | 0.00 | 1373.37 | 38.17 | 38.17 | 99.17 | 3164.42 | 3120.81 | 72.56 | |
| 1500.00 | 1433.80 | 0.00 | 0.00 | 1466.80 | 41.01 | 41.01 | 99.76 | 3170.68 | 3123.58 | 67.31 | |
| 1600.00 | 1527.23 | 0.00 | 0.00 | 1560.23 | 43.85 | 43.85 | 100.35 | 3177.33 | 3126.71 | 62.77 | |
| 1700.00 | 1620.66 | 0.00 | 0.00 | 1653.66 | 46.69 | 46.69 | 100.95 | 3184.36 | 3130.17 | 58.76 | |
| 1800.00 | 1714.09 | 0.00 | 0.00 | 1747.09 | 49.52 | 49.52 | 101.53 | 3191.78 | 3134.01 | 55.25 | |
| 1900.00 | 1807.52 | 0.00 | 0.00 | 1840.52 | 52.36 | 52.36 | 102.12 | 3199.58 | 3138.23 | 52.16 | |
| 2000.00 | 1900.96 | 0.00 | 0.00 | 1933.96 | 55.20 | 55.20 | 102.70 | 3207.75 | 3142.84 | 49.42 | |
| 2100.00 | 1994.39 | 0.00 | 0.00 | 2027.39 | 58.04 | 58.04 | 103.29 | 3216.30 | 3147.82 | 46.97 | |
| 2200.00 | 2087.82 | 0.00 | 0.00 | 2120.82 | 60.87 | 60.87 | 103.86 | 3225.21 | 3153.18 | 44.77 | |
| 2300.00 | 2181.25 | 0.00 | 0.00 | 2214.25 | 63.71 | 63.71 | 104.44 | 3234.50 | 3158.92 | 42.80 | |
| 2400.00 | 2274.68 | 0.00 | 0.00 | 2307.68 | 66.55 | 66.55 | 105.01 | 3244.15 | 3165.04 | 41.00 | |
| 2500.00 | 2368.11 | 0.00 | 0.00 | 2401.11 | 69.39 | 69.39 | 105.58 | 3254.17 | 3171.52 | 39.38 | |
| 2600.00 | 2461.55 | 0.00 | 0.00 | 2494.55 | 72.22 | 72.22 | 106.15 | 3264.54 | 3178.38 | 37.89 | |
| 2700.00 | 2554.98 | 0.00 | 0.00 | 2587.98 | 75.06 | 75.06 | 106.71 | 3275.27 | 3185.60 | 36.53 | |
| 2800.00 | 2648.41 | 0.00 | 0.00 | 2681.41 | 77.90 | 77.90 | 107.27 | 3286.35 | 3193.20 | 35.28 | |
| 2900.00 | 2741.84 | 0.00 | 0.00 | 2774.84 | 80.74 | 80.74 | 107.83 | 3297.77 | 3201.15 | 34.13 | |
| 3000.00 | 2835.27 | 0.00 | 0.00 | 2868.27 | 83.57 | 83.57 | 108.38 | 3309.54 | 3209.46 | 33.07 | |

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 |
| 3100.00 | 2928.70 | 0.00 | 0.00 | 2961.70 | 86.41 | 86.41 | 108.93 | 3321.66 | 3218.14 | 32.09 | |
| 3200.00 | 3022.14 | 0.00 | 0.00 | 3055.14 | 89.25 | 89.25 | 109.47 | 3334.10 | 3227.16 | 31.18 | |
| 3300.00 | 3115.57 | 0.00 | 0.00 | 3148.57 | 92.09 | 92.09 | 110.02 | 3346.89 | 3236.42 | 30.30 | |
| 3400.00 | 3209.00 | 0.00 | 0.00 | 3242.00 | 94.92 | 94.92 | 110.55 | 3360.00 | 3245.98 | 29.47 | |
| 3500.00 | 3302.43 | 0.00 | 0.00 | 3335.43 | 97.76 | 97.76 | 111.09 | 3373.44 | 3255.88 | 28.70 | |
| 3600.00 | 3395.86 | 0.00 | 0.00 | 3428.86 | 100.60 | 100.60 | 111.62 | 3387.20 | 3266.11 | 27.97 | |
| 3700.00 | 3489.29 | 0.00 | 0.00 | 3522.29 | 103.43 | 103.43 | 112.15 | 3401.27 | 3276.67 | 27.30 | |
| 3800.00 | 3582.73 | 0.00 | 0.00 | 3615.73 | 106.27 | 106.27 | 112.67 | 3415.67 | 3287.56 | 26.66 | |
| 3900.00 | 3676.16 | 0.00 | 0.00 | 3709.16 | 109.11 | 109.11 | 113.19 | 3430.37 | 3298.77 | 26.07 | |
| 4000.00 | 3769.59 | 0.00 | 0.00 | 3802.59 | 111.95 | 111.95 | 113.70 | 3445.37 | 3310.31 | 25.51 | |
| 4100.00 | 3863.02 | 0.00 | 0.00 | 3896.02 | 114.78 | 114.78 | 114.21 | 3460.68 | 3322.16 | 24.98 | |
| 4200.00 | 3956.45 | 0.00 | 0.00 | 3989.45 | 117.62 | 117.62 | 114.72 | 3476.29 | 3334.32 | 24.49 | |
| 4300.00 | 4049.88 | 0.00 | 0.00 | 4082.88 | 120.46 | 120.46 | 115.22 | 3492.19 | 3346.80 | 24.02 | |
| 4400.00 | 4143.32 | 0.00 | 0.00 | 4176.32 | 123.30 | 123.30 | 115.72 | 3508.39 | 3359.58 | 23.58 | |
| 4500.00 | 4236.75 | 0.00 | 0.00 | 4269.75 | 126.13 | 126.13 | 116.22 | 3524.86 | 3372.66 | 23.16 | |
| 4600.00 | 4330.18 | 0.00 | 0.00 | 4363.18 | 128.97 | 128.97 | 116.71 | 3541.62 | 3386.05 | 22.76 | |
| 4700.00 | 4423.61 | 0.00 | 0.00 | 4456.61 | 131.81 | 131.81 | 117.19 | 3558.66 | 3399.73 | 22.39 | |
| 4800.00 | 4517.04 | 0.00 | 0.00 | 4550.04 | 134.65 | 134.65 | 117.68 | 3575.97 | 3413.70 | 22.04 | |
| 4900.00 | 4610.47 | 0.00 | 0.00 | 4643.47 | 137.48 | 137.48 | 118.15 | 3593.56 | 3427.96 | 21.70 | |
| 5000.00 | 4703.91 | 0.00 | 0.00 | 4736.91 | 140.32 | 140.32 | 118.63 | 3611.40 | 3442.51 | 21.38 | |
| 5100.00 | 4797.34 | 0.00 | 0.00 | 4830.34 | 143.16 | 143.16 | 119.10 | 3629.52 | 3457.34 | 21.08 | |
| 5200.00 | 4890.77 | 0.00 | 0.00 | 4923.77 | 146.00 | 146.00 | 119.56 | 3647.88 | 3472.28 | 20.77 | |
| 5300.00 | 4984.20 | 0.00 | 0.00 | 5017.20 | 148.83 | 148.83 | 120.02 | 3666.51 | 3487.43 | 20.47 | |
| 5400.00 | 5077.63 | 0.00 | 0.00 | 5110.63 | 151.67 | 151.67 | 120.48 | 3685.38 | 3502.84 | 20.19 | |
| 5500.00 | 5171.06 | 0.00 | 0.00 | 5204.06 | 154.51 | 154.51 | 120.93 | 3704.50 | 3518.50 | 19.92 | |
| 5600.00 | 5264.50 | 0.00 | 0.00 | 5297.50 | 157.35 | 157.35 | 121.38 | 3723.87 | 3534.42 | 19.66 | |
| 5700.00 | 5357.93 | 0.00 | 0.00 | 5390.93 | 160.18 | 160.18 | 121.82 | 3743.47 | 3550.59 | 19.41 | |
| 5800.00 | 5451.36 | 0.00 | 0.00 | 5484.36 | 163.02 | 163.02 | 122.26 | 3763.31 | 3567.02 | 19.17 | |
| 5900.00 | 5544.79 | 0.00 | 0.00 | 5577.79 | 165.86 | 165.86 | 122.70 | 3783.38 | 3583.69 | 18.95 | |
| 6000.00 | 5638.22 | 0.00 | 0.00 | 5671.22 | 168.69 | 168.69 | 123.13 | 3803.68 | 3600.60 | 18.73 | |
| 6100.00 | 5731.65 | 0.00 | 0.00 | 5764.65 | 171.53 | 171.53 | 123.56 | 3824.20 | 3617.75 | 18.52 | |
| 6200.00 | 5825.09 | 0.00 | 0.00 | 5858.09 | 174.37 | 174.37 | 123.98 | 3844.95 | 3635.14 | 18.33 | |
| 6300.00 | 5918.52 | 0.00 | 0.00 | 5951.52 | 177.21 | 177.21 | 124.40 | 3865.91 | 3652.76 | 18.14 | |
| 6400.00 | 6011.95 | 0.00 | 0.00 | 6044.95 | 180.04 | 180.04 | 124.81 | 3887.08 | 3670.61 | 17.96 | |
| 6500.00 | 6105.38 | 0.00 | 0.00 | 6138.38 | 182.88 | 182.88 | 125.22 | 3908.47 | 3688.68 | 17.78 | |
| 6600.00 | 6198.81 | 0.00 | 0.00 | 6231.81 | 185.72 | 185.72 | 125.63 | 3930.06 | 3706.98 | 17.62 | |
| 6700.00 | 6292.98 | 0.00 | 0.00 | 6325.98 | 188.58 | 188.58 | 108.22 | 3946.95 | 3720.64 | 17.44 | |
| 6800.00 | 6388.13 | 0.00 | 0.00 | 6421.13 | 191.47 | 191.47 | 84.06 | 3950.39 | 3720.96 | 17.22 | |
| 6900.00 | 6482.44 | 0.00 | 0.00 | 6515.44 | 194.33 | 194.33 | 63.58 | 3940.21 | 3707.72 | 16.95 | |
| 7000.00 | 6574.08 | 0.00 | 0.00 | 6607.08 | 197.12 | 197.12 | 50.06 | 3916.61 | 3681.22 | 16.64 | |
| 7100.00 | 6661.25 | 0.00 | 0.00 | 6694.25 | 199.76 | 199.76 | 41.91 | 3880.07 | 3641.96 | 16.30 | |
| 7200.00 | 6742.27 | 0.00 | 0.00 | 6775.27 | 202.22 | 202.22 | 37.20 | 3831.30 | 3590.71 | 15.92 | |
| 7300.00 | 6815.56 | 0.00 | 0.00 | 6848.56 | 204.45 | 204.45 | 34.81 | 3771.24 | 3528.44 | 15.53 | |
| 7400.00 | 6879.68 | 0.00 | 0.00 | 6912.68 | 206.40 | 206.40 | 34.22 | 3701.05 | 3456.14 | 15.11 | |
| 7500.00 | 6933.40 | 0.00 | 0.00 | 6966.40 | 208.03 | 208.03 | 35.45 | 3622.05 | 3375.27 | 14.68 | |
| 7600.00 | 6975.67 | 0.00 | 0.00 | 7008.67 | 209.31 | 209.31 | 39.04 | 3535.75 | 3287.45 | 14.24 | |
| 7700.00 | 7005.66 | 0.00 | 0.00 | 7038.66 | 210.22 | 210.22 | 46.74 | 3443.77 | 3194.33 | 13.81 | |
| 7800.00 | 7022.79 | 0.00 | 0.00 | 7055.79 | 210.74 | 210.74 | 63.47 | 3347.86 | 3097.69 | 13.38 | |
| 7900.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 3249.83 | 2999.33 | 12.97 | |
| 8000.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 3151.50 | 2900.83 | 12.57 | |
| 8100.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 3053.29 | 2802.44 | 12.17 | |
| 8200.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 2955.19 | 2704.09 | 11.77 | |
| 8300.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 2857.22 | 2605.79 | 11.36 | |
| 8400.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 2759.40 | 2507.67 | 10.96 | |
| 8500.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 2661.74 | 2409.81 | 10.57 | |
| 8600.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 2564.26 | 2311.97 | 10.16 | |
| 8700.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 2466.98 | 2214.31 | 9.76 | |
| 8800.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 2369.93 | 2116.95 | 9.37 | |

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 |
| 8900.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 2273.13 | 2019.72 | 8.97 | |
| 9000.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 2176.62 | 1922.91 | 8.58 | |
| 9100.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 2080.45 | 1826.18 | 8.18 | |
| 9200.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 1984.65 | 1729.93 | 7.79 | |
| 9300.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 1889.29 | 1634.18 | 7.41 | |
| 9400.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 1794.43 | 1538.13 | 7.00 | |
| 9500.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 1700.16 | 1442.55 | 6.60 | |
| 9600.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 1606.59 | 1347.65 | 6.20 | |
| 9700.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 1513.83 | 1253.58 | 5.82 | |
| 9800.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 1422.06 | 1160.14 | 5.43 | |
| 9900.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 1331.48 | 1067.88 | 5.05 | |
| 10000.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 1242.34 | 977.15 | 4.68 | |
| 10100.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 1154.98 | 886.66 | 4.30 | |
| 10200.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 1069.84 | 798.12 | 3.94 | |
| 10300.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 987.48 | 712.60 | 3.59 | |
| 10400.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 908.68 | 629.57 | 3.26 | |
| 10500.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 834.42 | 550.09 | 2.93 | |
| 10600.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 766.05 | 476.75 | 2.65 | |
| 10700.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 705.27 | 409.62 | 2.39 | SF(Lo) |
| 10800.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 654.20 | 352.14 | 2.17 | SF(Lo) |
| 10900.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 615.26 | 307.85 | 2.00 | SF(Lo) |
| 11000.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 590.86 | 278.95 | 1.89 | SF(Lo) |
| 11100.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 582.83 | 268.96 | 1.86 | SF(Lo) |
| 11200.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 591.83 | 278.51 | 1.89 | SF(Lo) |
| 11300.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 617.12 | 306.63 | 1.99 | SF(Lo) |
| 11400.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 656.81 | 351.14 | 2.15 | SF(Lo) |
| 11500.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 708.50 | 407.28 | 2.35 | SF(Lo) |
| 11600.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 769.77 | 473.50 | 2.60 | |
| 11700.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 838.52 | 547.31 | 2.88 | |
| 11800.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 913.07 | 626.52 | 3.19 | |
| 11900.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 992.10 | 709.14 | 3.51 | |
| 12000.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 1074.63 | 795.69 | 3.85 | |
| 12100.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 1159.92 | 883.98 | 4.20 | |
| 12200.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 1247.39 | 973.63 | 4.56 | |
| 12300.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 1336.62 | 1065.05 | 4.92 | |
| 12400.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 1427.28 | 1157.95 | 5.30 | |
| 12500.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 1519.11 | 1251.96 | 5.69 | |
| 12600.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 1611.91 | 1346.05 | 6.06 | |
| 12700.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 1705.53 | 1440.65 | 6.44 | |
| 12800.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 1799.83 | 1535.95 | 6.82 | |
| 12900.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 1894.72 | 1631.83 | 7.21 | |
| 13000.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 1990.11 | 1728.20 | 7.60 | |
| 13100.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 2085.93 | 1824.74 | 7.99 | |
| 13200.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 2182.13 | 1921.65 | 8.38 | |
| 13300.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 2278.65 | 2018.87 | 8.77 | |
| 13400.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 2375.46 | 2116.36 | 9.17 | |
| 13500.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 2472.53 | 2214.08 | 9.57 | |
| 13600.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 2569.82 | 2312.00 | 9.97 | |
| 13700.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 2667.31 | 2410.09 | 10.37 | |
| 13800.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 2764.98 | 2508.35 | 10.77 | |
| 13900.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 2862.81 | 2606.49 | 11.17 | |
| 14000.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 2960.79 | 2704.63 | 11.56 | |
| 14100.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 3058.89 | 2802.90 | 11.95 | |
| 14200.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 3157.12 | 2901.29 | 12.34 | |
| 14300.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 3255.45 | 2999.79 | 12.73 | |
| 14400.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 3353.89 | 3098.38 | 13.13 | |
| 14500.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 3452.41 | 3197.06 | 13.52 | |
| 14600.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 3551.01 | 3295.82 | 13.92 | |

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 |
| 14700.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 3649.69 | 3394.66 | 14.31 | |
| 14800.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 3748.44 | 3493.56 | 14.71 | |
| 14900.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 3847.26 | 3592.52 | 15.10 | |
| 15000.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 3946.13 | 3691.54 | 15.50 | |
| 15100.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 4045.06 | 3790.61 | 15.90 | |
| 15200.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 4144.05 | 3889.72 | 16.29 | |
| 15300.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 4243.08 | 3988.88 | 16.69 | |
| 15400.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 4342.15 | 4088.07 | 17.09 | |
| 15500.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 4441.26 | 4187.25 | 17.48 | |
| 15600.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 4540.42 | 4286.47 | 17.88 | |
| 15700.00 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 4639.61 | 4385.72 | 18.27 | |
| 15768.80 | 7027.00 | 0.00 | 0.00 | 7060.00 | 210.87 | 210.87 | 90.00 | 4707.87 | 4454.02 | 18.55 | |

| Secondary Well: Tollgate 1 (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 | 39.00 | 0.00 | 0.00 | 224.73 | 2080.52 | 2079.79 | 2857.49 | |
| 100.00 | 61.00 | 0.00 | 0.00 | 100.00 | 0.93 | 0.93 | 224.73 | 2080.15 | 2078.39 | 1181.66 | |
| 200.00 | 161.00 | 0.00 | 0.00 | 200.00 | 2.44 | 2.44 | 224.73 | 2080.15 | 2076.66 | 594.94 | |
| 300.00 | 261.00 | 0.00 | 0.00 | 300.00 | 5.40 | 5.40 | 224.73 | 2080.15 | 2073.49 | 312.28 | |
| 400.00 | 360.98 | 0.00 | 0.00 | 399.98 | 8.43 | 8.43 | 80.67 | 2079.87 | 2070.15 | 214.02 | |
| 500.00 | 460.84 | 0.00 | 0.00 | 499.84 | 11.46 | 11.46 | 80.83 | 2079.03 | 2066.09 | 160.68 | |
| 600.00 | 560.45 | 0.00 | 0.00 | 599.45 | 14.49 | 14.49 | 81.09 | 2077.65 | 2061.46 | 128.35 | |
| 700.00 | 659.70 | 0.00 | 0.00 | 698.70 | 17.50 | 17.50 | 81.46 | 2075.79 | 2056.32 | 106.59 | |
| 800.00 | 758.47 | 0.00 | 0.00 | 797.47 | 20.50 | 20.50 | 81.92 | 2073.50 | 2050.70 | 90.96 | |
| 900.00 | 856.62 | 0.00 | 0.00 | 895.62 | 23.48 | 23.48 | 82.49 | 2070.87 | 2044.71 | 79.17 | |
| 1000.00 | 954.06 | 0.00 | 0.00 | 993.06 | 26.44 | 26.44 | 83.15 | 2067.98 | 2038.42 | 69.96 | |
| 1100.00 | 1050.64 | 0.00 | 0.00 | 1089.64 | 29.38 | 29.38 | 83.90 | 2064.96 | 2031.96 | 62.57 | |
| 1200.00 | 1146.27 | 0.00 | 0.00 | 1185.27 | 32.28 | 32.28 | 84.73 | 2061.93 | 2025.44 | 56.51 | |
| 1300.00 | 1240.82 | 0.00 | 0.00 | 1279.82 | 35.15 | 35.15 | 85.64 | 2059.05 | 2019.04 | 51.46 | |
| 1400.00 | 1334.37 | 0.00 | 0.00 | 1373.37 | 37.99 | 37.99 | 86.58 | 2056.49 | 2012.94 | 47.22 | |
| 1500.00 | 1427.80 | 0.00 | 0.00 | 1466.80 | 40.83 | 40.83 | 87.51 | 2054.53 | 2007.43 | 43.62 | |
| 1600.00 | 1521.23 | 0.00 | 0.00 | 1560.23 | 43.67 | 43.67 | 88.44 | 2053.18 | 2002.55 | 40.55 | |
| 1700.00 | 1614.66 | 0.00 | 0.00 | 1653.66 | 46.50 | 46.50 | 89.37 | 2052.45 | 1998.29 | 37.90 | |
| 1800.00 | 1708.09 | 0.00 | 0.00 | 1747.09 | 49.34 | 49.34 | 90.30 | 2052.34 | 1994.67 | 35.59 | |
| 1900.00 | 1801.52 | 0.00 | 0.00 | 1840.52 | 52.18 | 52.18 | 91.23 | 2052.85 | 1991.63 | 33.53 | |
| 2000.00 | 1894.96 | 0.00 | 0.00 | 1933.96 | 55.02 | 55.02 | 92.16 | 2053.97 | 1989.12 | 31.67 | |
| 2100.00 | 1988.39 | 0.00 | 0.00 | 2027.39 | 57.85 | 57.85 | 93.08 | 2055.72 | 1987.25 | 30.02 | |
| 2200.00 | 2081.82 | 0.00 | 0.00 | 2120.82 | 60.69 | 60.69 | 94.01 | 2058.08 | 1986.01 | 28.56 | |
| 2300.00 | 2175.25 | 0.00 | 0.00 | 2214.25 | 63.53 | 63.53 | 94.93 | 2061.05 | 1985.40 | 27.24 | |
| 2400.00 | 2268.68 | 0.00 | 0.00 | 2307.68 | 66.37 | 66.37 | 95.86 | 2064.64 | 1985.42 | 26.06 | |
| 2500.00 | 2362.11 | 0.00 | 0.00 | 2401.11 | 69.20 | 69.20 | 96.77 | 2068.83 | 1986.08 | 25.00 | |
| 2600.00 | 2455.55 | 0.00 | 0.00 | 2494.55 | 72.04 | 72.04 | 97.69 | 2073.63 | 1987.37 | 24.04 | |
| 2700.00 | 2548.98 | 0.00 | 0.00 | 2587.98 | 74.88 | 74.88 | 98.60 | 2079.02 | 1989.29 | 23.17 | |
| 2800.00 | 2642.41 | 0.00 | 0.00 | 2681.41 | 77.72 | 77.72 | 99.51 | 2085.02 | 1991.84 | 22.38 | |
| 2900.00 | 2735.84 | 0.00 | 0.00 | 2774.84 | 80.55 | 80.55 | 100.41 | 2091.60 | 1994.96 | 21.64 | |
| 3000.00 | 2829.27 | 0.00 | 0.00 | 2868.27 | 83.39 | 83.39 | 101.31 | 2098.77 | 1998.49 | 20.93 | |
| 3100.00 | 2922.70 | 0.00 | 0.00 | 2961.70 | 86.23 | 86.23 | 102.20 | 2106.52 | 2002.63 | 20.28 | |
| 3200.00 | 3016.14 | 0.00 | 0.00 | 3055.14 | 89.07 | 89.07 | 103.08 | 2114.84 | 2007.37 | 19.68 | |
| 3300.00 | 3109.57 | 0.00 | 0.00 | 3148.57 | 91.90 | 91.90 | 103.96 | 2123.72 | 2012.70 | 19.13 | |
| 3400.00 | 3203.00 | 0.00 | 0.00 | 3242.00 | 94.74 | 94.74 | 104.83 | 2133.17 | 2018.62 | 18.62 | |
| 3500.00 | 3296.43 | 0.00 | 0.00 | 3335.43 | 97.58 | 97.58 | 105.70 | 2143.16 | 2025.12 | 18.16 | |
| 3600.00 | 3389.86 | 0.00 | 0.00 | 3428.86 | 100.42 | 100.42 | 106.56 | 2153.70 | 2032.21 | 17.73 | |
| 3700.00 | 3483.29 | 0.00 | 0.00 | 3522.29 | 103.25 | 103.25 | 107.41 | 2164.77 | 2039.86 | 17.33 | |
| 3800.00 | 3576.73 | 0.00 | 0.00 | 3615.73 | 106.09 | 106.09 | 108.25 | 2176.38 | 2048.09 | 16.96 | |
| 3900.00 | 3670.16 | 0.00 | 0.00 | 3709.16 | 108.93 | 108.93 | 109.08 | 2188.50 | 2056.87 | 16.63 | |
| 4000.00 | 3763.59 | 0.00 | 0.00 | 3802.59 | 111.76 | 111.76 | 109.91 | 2201.13 | 2066.10 | 16.30 | |
| 4100.00 | 3857.02 | 0.00 | 0.00 | 3896.02 | 114.60 | 114.60 | 110.73 | 2214.26 | 2075.67 | 15.98 | |

5D Anti-Collision Report

| Secondary Well: Tollgate 1 (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 |
| 4200.00 | 3950.45 | 0.00 | 0.00 | 3989.45 | 117.44 | 117.44 | 111.54 | 2227.89 | 2085.77 | 15.68 | |
| 4300.00 | 4043.88 | 0.00 | 0.00 | 4082.88 | 120.28 | 120.28 | 112.34 | 2242.00 | 2096.38 | 15.40 | |
| 4400.00 | 4137.32 | 0.00 | 0.00 | 4176.32 | 123.11 | 123.11 | 113.13 | 2256.58 | 2107.50 | 15.14 | |
| 4500.00 | 4230.75 | 0.00 | 0.00 | 4269.75 | 125.95 | 125.95 | 113.91 | 2271.64 | 2119.13 | 14.90 | |
| 4600.00 | 4324.18 | 0.00 | 0.00 | 4363.18 | 128.79 | 128.79 | 114.68 | 2287.14 | 2131.24 | 14.67 | |
| 4700.00 | 4417.61 | 0.00 | 0.00 | 4456.61 | 131.63 | 131.63 | 115.44 | 2303.10 | 2143.84 | 14.46 | |
| 4800.00 | 4511.04 | 0.00 | 0.00 | 4550.04 | 134.46 | 134.46 | 116.20 | 2319.49 | 2156.92 | 14.27 | |
| 4900.00 | 4604.47 | 0.00 | 0.00 | 4643.47 | 137.30 | 137.30 | 116.94 | 2336.31 | 2170.46 | 14.09 | |
| 5000.00 | 4697.91 | 0.00 | 0.00 | 4736.91 | 140.14 | 140.14 | 117.68 | 2353.55 | 2184.45 | 13.92 | |
| 5100.00 | 4791.34 | 0.00 | 0.00 | 4830.34 | 142.98 | 142.98 | 118.40 | 2371.20 | 2198.90 | 13.76 | |
| 5200.00 | 4884.77 | 0.00 | 0.00 | 4923.77 | 145.81 | 145.81 | 119.11 | 2389.26 | 2213.78 | 13.62 | |
| 5300.00 | 4978.20 | 0.00 | 0.00 | 5017.20 | 148.65 | 148.65 | 119.82 | 2407.70 | 2228.81 | 13.46 | |
| 5400.00 | 5071.63 | 0.00 | 0.00 | 5110.63 | 151.49 | 151.49 | 120.51 | 2426.53 | 2244.17 | 13.31 | |
| 5500.00 | 5165.06 | 0.00 | 0.00 | 5204.06 | 154.33 | 154.33 | 121.20 | 2445.74 | 2259.94 | 13.16 | |
| 5600.00 | 5258.50 | 0.00 | 0.00 | 5297.50 | 157.16 | 157.16 | 121.88 | 2465.30 | 2276.10 | 13.03 | |
| 5700.00 | 5351.93 | 0.00 | 0.00 | 5390.93 | 160.00 | 160.00 | 122.54 | 2485.23 | 2292.65 | 12.91 | |
| 5800.00 | 5445.36 | 0.00 | 0.00 | 5484.36 | 162.84 | 162.84 | 123.20 | 2505.51 | 2309.58 | 12.79 | |
| 5900.00 | 5538.79 | 0.00 | 0.00 | 5577.79 | 165.68 | 165.68 | 123.84 | 2526.12 | 2326.88 | 12.68 | |
| 6000.00 | 5632.22 | 0.00 | 0.00 | 5671.22 | 168.51 | 168.51 | 124.48 | 2547.07 | 2344.55 | 12.58 | |
| 6100.00 | 5725.65 | 0.00 | 0.00 | 5764.65 | 171.35 | 171.35 | 125.11 | 2568.34 | 2362.56 | 12.48 | |
| 6200.00 | 5819.09 | 0.00 | 0.00 | 5858.09 | 174.19 | 174.19 | 125.72 | 2589.93 | 2380.92 | 12.39 | |
| 6300.00 | 5912.52 | 0.00 | 0.00 | 5951.52 | 177.02 | 177.02 | 126.33 | 2611.82 | 2399.62 | 12.31 | |
| 6400.00 | 6005.95 | 0.00 | 0.00 | 6044.95 | 179.86 | 179.86 | 126.93 | 2634.02 | 2418.65 | 12.23 | |
| 6500.00 | 6099.38 | 0.00 | 0.00 | 6138.38 | 182.70 | 182.70 | 127.52 | 2656.51 | 2438.01 | 12.16 | |
| 6600.00 | 6192.81 | 0.00 | 0.00 | 6231.81 | 185.54 | 185.54 | 128.10 | 2679.28 | 2457.67 | 12.09 | |
| 6700.00 | 6286.98 | 0.00 | 0.00 | 6325.98 | 188.40 | 188.40 | 110.80 | 2697.46 | 2472.82 | 12.01 | |
| 6800.00 | 6382.13 | 0.00 | 0.00 | 6421.13 | 191.29 | 191.29 | 86.81 | 2702.38 | 2474.63 | 11.87 | |
| 6900.00 | 6476.44 | 0.00 | 0.00 | 6515.44 | 194.15 | 194.15 | 66.56 | 2693.85 | 2462.91 | 11.67 | |
| 7000.00 | 6568.08 | 0.00 | 0.00 | 6607.08 | 196.93 | 196.93 | 53.35 | 2672.09 | 2438.11 | 11.42 | |
| 7100.00 | 6655.25 | 0.00 | 0.00 | 6694.25 | 199.58 | 199.58 | 45.61 | 2637.59 | 2400.75 | 11.14 | |
| 7200.00 | 6736.27 | 0.00 | 0.00 | 6775.27 | 202.04 | 202.04 | 41.45 | 2591.05 | 2351.60 | 10.82 | |
| 7300.00 | 6809.56 | 0.00 | 0.00 | 6848.56 | 204.27 | 204.27 | 39.78 | 2533.41 | 2291.63 | 10.48 | |
| 7400.00 | 6873.68 | 0.00 | 0.00 | 6912.68 | 206.21 | 206.21 | 40.15 | 2465.79 | 2222.03 | 10.12 | |
| 7500.00 | 6927.40 | 0.00 | 0.00 | 6966.40 | 207.85 | 207.85 | 42.64 | 2389.52 | 2144.12 | 9.74 | |
| 7600.00 | 6969.67 | 0.00 | 0.00 | 7008.67 | 209.13 | 209.13 | 47.79 | 2306.05 | 2059.40 | 9.35 | |
| 7700.00 | 6999.66 | 0.00 | 0.00 | 7038.66 | 210.04 | 210.04 | 56.93 | 2216.97 | 1969.49 | 8.96 | |
| 7800.00 | 7016.79 | 0.00 | 0.00 | 7055.79 | 210.56 | 210.56 | 72.26 | 2123.95 | 1876.01 | 8.57 | |
| 7900.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 2028.74 | 1780.64 | 8.18 | |
| 8000.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 1933.41 | 1685.33 | 7.79 | |
| 8100.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 1838.59 | 1589.99 | 7.40 | |
| 8200.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 1744.34 | 1495.28 | 7.00 | |
| 8300.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 1650.77 | 1401.15 | 6.61 | |
| 8400.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 1558.00 | 1307.80 | 6.23 | |
| 8500.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 1466.19 | 1215.50 | 5.85 | |
| 8600.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 1375.51 | 1124.31 | 5.48 | |
| 8700.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 1286.21 | 1034.74 | 5.11 | |
| 8800.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 1198.61 | 945.59 | 4.74 | |
| 8900.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 1113.10 | 858.50 | 4.37 | |
| 9000.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 1030.20 | 774.26 | 4.03 | |
| 9100.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 950.59 | 693.02 | 3.69 | |
| 9200.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 875.19 | 614.65 | 3.36 | |
| 9300.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 805.15 | 542.71 | 3.07 | |
| 9400.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 742.02 | 475.31 | 2.78 | |
| 9500.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 687.69 | 417.61 | 2.55 | |
| 9600.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 644.39 | 370.96 | 2.36 | SF(Lo) |
| 9700.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 614.46 | 337.40 | 2.22 | SF(Lo) |
| 9800.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 599.90 | 320.17 | 2.14 | SF(Lo) |
| 9900.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 601.83 | 320.63 | 2.14 | SF(Lo) |

5D Anti-Collision Report

| Secondary Well: Tollgate 1 (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 |
| 10000.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 620.10 | 338.98 | 2.21 | SF(Lo) |
| 10100.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 653.34 | 373.22 | 2.33 | SF(Lo) |
| 10200.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 699.41 | 421.46 | 2.52 | |
| 10300.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 755.97 | 480.97 | 2.75 | |
| 10400.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 820.86 | 547.52 | 3.00 | |
| 10500.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 892.26 | 622.14 | 3.30 | |
| 10600.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 968.74 | 700.01 | 3.60 | |
| 10700.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 1049.18 | 782.30 | 3.93 | |
| 10800.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 1132.74 | 868.08 | 4.28 | |
| 10900.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 1218.78 | 955.02 | 4.62 | |
| 11000.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 1306.81 | 1044.04 | 4.97 | |
| 11100.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 1396.45 | 1134.80 | 5.34 | |
| 11200.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 1487.41 | 1227.04 | 5.71 | |
| 11300.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 1579.46 | 1320.31 | 6.09 | |
| 11400.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 1672.43 | 1413.75 | 6.47 | |
| 11500.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 1766.17 | 1507.91 | 6.84 | |
| 11600.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 1860.56 | 1602.88 | 7.22 | |
| 11700.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 1955.50 | 1698.14 | 7.60 | |
| 11800.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 2050.93 | 1793.99 | 7.98 | |
| 11900.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 2146.77 | 1890.41 | 8.37 | |
| 12000.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 2242.98 | 1986.87 | 8.76 | |
| 12100.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 2339.50 | 2083.80 | 9.15 | |
| 12200.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 2436.31 | 2181.11 | 9.55 | |
| 12300.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 2533.36 | 2278.47 | 9.94 | |
| 12400.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 2630.64 | 2376.06 | 10.33 | |
| 12500.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 2728.11 | 2473.90 | 10.73 | |
| 12600.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 2825.76 | 2571.95 | 11.13 | |
| 12700.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 2923.56 | 2670.07 | 11.53 | |
| 12800.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 3021.51 | 2768.02 | 11.92 | |
| 12900.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 3119.59 | 2866.12 | 12.31 | |
| 13000.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 3217.79 | 2964.36 | 12.70 | |
| 13100.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 3316.10 | 3062.73 | 13.09 | |
| 13200.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 3414.50 | 3161.20 | 13.48 | |
| 13300.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 3513.00 | 3259.77 | 13.87 | |
| 13400.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 3611.57 | 3358.43 | 14.27 | |
| 13500.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 3710.23 | 3457.17 | 14.66 | |
| 13600.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 3808.95 | 3555.98 | 15.06 | |
| 13700.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 3907.74 | 3654.86 | 15.45 | |
| 13800.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 4006.59 | 3753.78 | 15.85 | |
| 13900.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 4105.49 | 3852.70 | 16.24 | |
| 14000.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 4204.45 | 3951.68 | 16.63 | |
| 14100.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 4303.45 | 4050.72 | 17.03 | |
| 14200.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 4402.50 | 4149.80 | 17.42 | |
| 14300.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 4501.60 | 4248.92 | 17.82 | |
| 14400.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 4600.73 | 4348.09 | 18.21 | |
| 14500.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 4699.89 | 4447.29 | 18.61 | |
| 14600.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 4799.10 | 4546.52 | 19.00 | |
| 14700.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 4898.33 | 4645.79 | 19.40 | |
| 14800.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 4997.60 | 4745.09 | 19.79 | |
| 14900.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 5096.89 | 4844.42 | 20.19 | |
| 15000.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 5196.21 | 4943.78 | 20.58 | |
| 15100.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 5295.56 | 5043.16 | 20.98 | |
| 15200.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 5394.93 | 5142.56 | 21.38 | |
| 15300.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 5494.32 | 5241.98 | 21.77 | |
| 15400.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 5593.74 | 5341.42 | 22.17 | |
| 15500.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 5693.17 | 5440.89 | 22.57 | |
| 15600.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 5792.63 | 5540.37 | 22.96 | |
| 15700.00 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 5892.10 | 5639.87 | 23.36 | |

5D Anti-Collision Report

| Secondary Well: Tollgate 1 (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 |
| 15768.80 | 7021.00 | 0.00 | 0.00 | 7060.00 | 210.69 | 210.69 | 90.00 | 5960.55 | 5708.33 | 23.63 | |
| Secondary Well: Etter 30-33 (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 | 257.36 | 7447.82 | 7447.10 | 10229.09 | |
| 100.00 | 75.00 | 0.00 | 0.00 | 100.00 | 1.14 | 1.14 | 257.36 | 7447.78 | 7445.81 | 3771.06 | |
| 200.00 | 175.00 | 0.00 | 0.00 | 200.00 | 2.78 | 2.78 | 257.36 | 7447.78 | 7443.94 | 1938.71 | |
| 300.00 | 275.00 | 0.00 | 0.00 | 300.00 | 5.82 | 5.82 | 257.36 | 7447.78 | 7440.68 | 1049.01 | |
| 400.00 | 374.98 | 0.00 | 0.00 | 399.98 | 8.86 | 8.86 | 113.24 | 7448.47 | 7438.14 | 720.68 | |
| 500.00 | 474.84 | 0.00 | 0.00 | 499.84 | 11.89 | 11.89 | 113.24 | 7450.54 | 7437.15 | 556.42 | |
| 600.00 | 574.45 | 0.00 | 0.00 | 599.45 | 14.91 | 14.91 | 113.24 | 7453.99 | 7437.35 | 447.91 | |
| 700.00 | 673.70 | 0.00 | 0.00 | 698.70 | 17.93 | 17.93 | 113.24 | 7458.83 | 7438.90 | 374.33 | |
| 800.00 | 772.47 | 0.00 | 0.00 | 797.47 | 20.93 | 20.93 | 113.23 | 7465.07 | 7441.83 | 321.25 | |
| 900.00 | 870.62 | 0.00 | 0.00 | 895.62 | 23.91 | 23.91 | 113.22 | 7472.71 | 7446.13 | 281.15 | |
| 1000.00 | 968.06 | 0.00 | 0.00 | 993.06 | 26.87 | 26.87 | 113.21 | 7481.77 | 7451.82 | 249.82 | |
| 1100.00 | 1064.64 | 0.00 | 0.00 | 1089.64 | 29.80 | 29.80 | 113.19 | 7492.27 | 7458.92 | 224.67 | |
| 1200.00 | 1160.27 | 0.00 | 0.00 | 1185.27 | 32.71 | 32.71 | 113.17 | 7504.22 | 7467.44 | 204.01 | |
| 1300.00 | 1254.82 | 0.00 | 0.00 | 1279.82 | 35.58 | 35.58 | 113.14 | 7517.64 | 7477.41 | 186.86 | |
| 1400.00 | 1348.37 | 0.00 | 0.00 | 1373.37 | 38.42 | 38.42 | 113.25 | 7532.33 | 7488.61 | 172.26 | |
| 1500.00 | 1441.80 | 0.00 | 0.00 | 1466.80 | 41.25 | 41.25 | 113.49 | 7547.30 | 7500.08 | 159.84 | |
| 1600.00 | 1535.23 | 0.00 | 0.00 | 1560.23 | 44.09 | 44.09 | 113.72 | 7562.40 | 7511.69 | 149.14 | |
| 1700.00 | 1628.66 | 0.00 | 0.00 | 1653.66 | 46.93 | 46.93 | 113.96 | 7577.64 | 7523.43 | 139.80 | |
| 1800.00 | 1722.09 | 0.00 | 0.00 | 1747.09 | 49.77 | 49.77 | 114.19 | 7593.01 | 7535.31 | 131.58 | |
| 1900.00 | 1815.52 | 0.00 | 0.00 | 1840.52 | 52.60 | 52.60 | 114.42 | 7608.53 | 7547.32 | 124.30 | |
| 2000.00 | 1908.96 | 0.00 | 0.00 | 1933.96 | 55.44 | 55.44 | 114.65 | 7624.17 | 7559.46 | 117.82 | |
| 2100.00 | 2002.39 | 0.00 | 0.00 | 2027.39 | 58.28 | 58.28 | 114.88 | 7639.95 | 7571.74 | 112.00 | |
| 2200.00 | 2095.82 | 0.00 | 0.00 | 2120.82 | 61.12 | 61.12 | 115.11 | 7655.87 | 7584.16 | 106.76 | |
| 2300.00 | 2189.25 | 0.00 | 0.00 | 2214.25 | 63.95 | 63.95 | 115.34 | 7671.92 | 7596.71 | 102.01 | |
| 2400.00 | 2282.68 | 0.00 | 0.00 | 2307.68 | 66.79 | 66.79 | 115.57 | 7688.09 | 7609.40 | 97.69 | |
| 2500.00 | 2376.11 | 0.00 | 0.00 | 2401.11 | 69.63 | 69.63 | 115.79 | 7704.40 | 7622.22 | 93.74 | |
| 2600.00 | 2469.55 | 0.00 | 0.00 | 2494.55 | 72.47 | 72.47 | 116.02 | 7720.84 | 7635.17 | 90.12 | |
| 2700.00 | 2562.98 | 0.00 | 0.00 | 2587.98 | 75.30 | 75.30 | 116.24 | 7737.41 | 7648.26 | 86.78 | |
| 2800.00 | 2656.41 | 0.00 | 0.00 | 2681.41 | 78.14 | 78.14 | 116.47 | 7754.11 | 7661.48 | 83.71 | |
| 2900.00 | 2749.84 | 0.00 | 0.00 | 2774.84 | 80.98 | 80.98 | 116.69 | 7770.94 | 7674.83 | 80.85 | |
| 3000.00 | 2843.27 | 0.00 | 0.00 | 2868.27 | 83.82 | 83.82 | 116.91 | 7787.89 | 7688.31 | 78.21 | |
| 3100.00 | 2936.70 | 0.00 | 0.00 | 2961.70 | 86.65 | 86.65 | 117.13 | 7804.97 | 7701.92 | 75.74 | |
| 3200.00 | 3030.14 | 0.00 | 0.00 | 3055.14 | 89.49 | 89.49 | 117.35 | 7822.17 | 7715.66 | 73.44 | |
| 3300.00 | 3123.57 | 0.00 | 0.00 | 3148.57 | 92.33 | 92.33 | 117.57 | 7839.50 | 7729.54 | 71.29 | |
| 3400.00 | 3217.00 | 0.00 | 0.00 | 3242.00 | 95.17 | 95.17 | 117.79 | 7856.95 | 7743.54 | 69.28 | |
| 3500.00 | 3310.43 | 0.00 | 0.00 | 3335.43 | 98.00 | 98.00 | 118.01 | 7874.52 | 7757.66 | 67.38 | |
| 3600.00 | 3403.86 | 0.00 | 0.00 | 3428.86 | 100.84 | 100.84 | 118.23 | 7892.22 | 7771.92 | 65.60 | |
| 3700.00 | 3497.29 | 0.00 | 0.00 | 3522.29 | 103.68 | 103.68 | 118.44 | 7910.04 | 7786.30 | 63.93 | |
| 3800.00 | 3590.73 | 0.00 | 0.00 | 3615.73 | 106.52 | 106.52 | 118.66 | 7927.97 | 7800.81 | 62.34 | |
| 3900.00 | 3684.16 | 0.00 | 0.00 | 3709.16 | 109.35 | 109.35 | 118.87 | 7946.03 | 7815.44 | 60.85 | |
| 4000.00 | 3777.59 | 0.00 | 0.00 | 3802.59 | 112.19 | 112.19 | 119.08 | 7964.20 | 7830.20 | 59.43 | |
| 4100.00 | 3871.02 | 0.00 | 0.00 | 3896.02 | 115.03 | 115.03 | 119.30 | 7982.50 | 7845.04 | 58.07 | |
| 4200.00 | 3964.45 | 0.00 | 0.00 | 3989.45 | 117.86 | 117.86 | 119.51 | 8000.91 | 7859.96 | 56.77 | |
| 4300.00 | 4057.88 | 0.00 | 0.00 | 4082.88 | 120.70 | 120.70 | 119.72 | 8019.43 | 7875.00 | 55.52 | |
| 4400.00 | 4151.32 | 0.00 | 0.00 | 4176.32 | 123.54 | 123.54 | 119.93 | 8038.07 | 7890.15 | 54.34 | |
| 4500.00 | 4244.75 | 0.00 | 0.00 | 4269.75 | 126.38 | 126.38 | 120.14 | 8056.83 | 7905.42 | 53.21 | |
| 4600.00 | 4338.18 | 0.00 | 0.00 | 4363.18 | 129.21 | 129.21 | 120.35 | 8075.70 | 7920.81 | 52.14 | |
| 4700.00 | 4431.61 | 0.00 | 0.00 | 4456.61 | 132.05 | 132.05 | 120.55 | 8094.68 | 7936.31 | 51.11 | |
| 4800.00 | 4525.04 | 0.00 | 0.00 | 4550.04 | 134.89 | 134.89 | 120.76 | 8113.78 | 7951.93 | 50.13 | |
| 4900.00 | 4618.47 | 0.00 | 0.00 | 4643.47 | 137.73 | 137.73 | 120.97 | 8132.98 | 7967.66 | 49.19 | |
| 5000.00 | 4711.91 | 0.00 | 0.00 | 4736.91 | 140.56 | 140.56 | 121.17 | 8152.30 | 7983.50 | 48.30 | |
| 5100.00 | 4805.34 | 0.00 | 0.00 | 4830.34 | 143.40 | 143.40 | 121.37 | 8171.73 | 7999.46 | 47.44 | |
| 5200.00 | 4898.77 | 0.00 | 0.00 | 4923.77 | 146.24 | 146.24 | 121.58 | 8191.26 | 8015.53 | 46.61 | |

5D Anti-Collision Report

| Secondary Well: Etter 30-33 (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 |
| 5300.00 | 4992.20 | 0.00 | 0.00 | 5017.20 | 149.08 | 149.08 | 121.78 | 8210.90 | 8031.72 | 45.82 | |
| 5400.00 | 5085.63 | 0.00 | 0.00 | 5110.63 | 151.91 | 151.91 | 121.98 | 8230.66 | 8048.01 | 45.06 | |
| 5500.00 | 5179.06 | 0.00 | 0.00 | 5204.06 | 154.75 | 154.75 | 122.18 | 8250.51 | 8064.41 | 44.33 | |
| 5600.00 | 5272.50 | 0.00 | 0.00 | 5297.50 | 157.59 | 157.59 | 122.38 | 8270.48 | 8080.93 | 43.63 | |
| 5700.00 | 5365.93 | 0.00 | 0.00 | 5390.93 | 160.43 | 160.43 | 122.58 | 8290.55 | 8097.55 | 42.96 | |
| 5800.00 | 5459.36 | 0.00 | 0.00 | 5484.36 | 163.26 | 163.26 | 122.77 | 8310.72 | 8114.28 | 42.31 | |
| 5900.00 | 5552.79 | 0.00 | 0.00 | 5577.79 | 166.10 | 166.10 | 122.97 | 8331.00 | 8131.12 | 41.68 | |
| 6000.00 | 5646.22 | 0.00 | 0.00 | 5671.22 | 168.94 | 168.94 | 123.17 | 8351.38 | 8148.06 | 41.08 | |
| 6100.00 | 5739.65 | 0.00 | 0.00 | 5764.65 | 171.78 | 171.78 | 123.36 | 8371.86 | 8165.11 | 40.49 | |
| 6200.00 | 5833.09 | 0.00 | 0.00 | 5858.09 | 174.61 | 174.61 | 123.56 | 8392.44 | 8182.27 | 39.93 | |
| 6300.00 | 5926.52 | 0.00 | 0.00 | 5951.52 | 177.45 | 177.45 | 123.75 | 8413.13 | 8199.53 | 39.39 | |
| 6400.00 | 6019.95 | 0.00 | 0.00 | 6044.95 | 180.29 | 180.29 | 123.94 | 8433.91 | 8216.90 | 38.86 | |
| 6500.00 | 6113.38 | 0.00 | 0.00 | 6138.38 | 183.12 | 183.12 | 124.13 | 8454.80 | 8234.37 | 38.36 | |
| 6600.00 | 6206.81 | 0.00 | 0.00 | 6231.81 | 185.96 | 185.96 | 124.32 | 8475.78 | 8251.94 | 37.87 | |
| 6700.00 | 6300.98 | 0.00 | 0.00 | 6325.98 | 188.82 | 188.82 | 106.72 | 8491.93 | 8264.74 | 37.38 | |
| 6800.00 | 6396.13 | 0.00 | 0.00 | 6421.13 | 191.71 | 191.71 | 82.36 | 8494.49 | 8264.03 | 36.86 | |
| 6900.00 | 6490.44 | 0.00 | 0.00 | 6515.44 | 194.58 | 194.58 | 61.62 | 8483.26 | 8249.61 | 36.31 | |
| 7000.00 | 6582.08 | 0.00 | 0.00 | 6607.08 | 197.36 | 197.36 | 47.79 | 8458.47 | 8221.74 | 35.73 | |
| 7100.00 | 6669.25 | 0.00 | 0.00 | 6694.25 | 200.01 | 200.01 | 39.24 | 8420.59 | 8180.97 | 35.14 | |
| 7200.00 | 6750.27 | 0.00 | 0.00 | 6775.27 | 202.47 | 202.47 | 34.04 | 8370.35 | 8128.07 | 34.55 | |
| 7300.00 | 6823.56 | 0.00 | 0.00 | 6848.56 | 204.69 | 204.69 | 30.98 | 8308.73 | 8064.04 | 33.96 | |
| 7400.00 | 6887.68 | 0.00 | 0.00 | 6912.68 | 206.64 | 206.64 | 29.51 | 8236.90 | 7990.11 | 33.38 | |
| 7500.00 | 6941.40 | 0.00 | 0.00 | 6966.40 | 208.27 | 208.27 | 29.48 | 8156.24 | 7907.67 | 32.81 | |
| 7600.00 | 6983.67 | 0.00 | 0.00 | 7008.67 | 209.55 | 209.55 | 31.24 | 8068.30 | 7818.31 | 32.27 | |
| 7700.00 | 7013.66 | 0.00 | 0.00 | 7038.66 | 210.47 | 210.47 | 36.27 | 7974.77 | 7723.73 | 31.77 | |
| 7800.00 | 7030.79 | 0.00 | 0.00 | 7055.79 | 210.99 | 210.99 | 50.97 | 7877.44 | 7625.75 | 31.30 | |
| 7900.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 7778.20 | 7526.27 | 30.87 | |
| 8000.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 7678.68 | 7426.64 | 30.47 | |
| 8100.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 7579.16 | 7327.03 | 30.06 | |
| 8200.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 7479.67 | 7227.44 | 29.65 | |
| 8300.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 7380.18 | 7127.89 | 29.25 | |
| 8400.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 7280.71 | 7028.39 | 28.85 | |
| 8500.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 7181.25 | 6928.69 | 28.43 | |
| 8600.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 7081.81 | 6829.13 | 28.03 | |
| 8700.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 6982.39 | 6729.59 | 27.62 | |
| 8800.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 6882.98 | 6630.17 | 27.23 | |
| 8900.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 6783.59 | 6530.54 | 26.81 | |
| 9000.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 6684.22 | 6431.14 | 26.41 | |
| 9100.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 6584.86 | 6331.54 | 25.99 | |
| 9200.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 6485.53 | 6232.02 | 25.58 | |
| 9300.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 6386.22 | 6132.55 | 25.18 | |
| 9400.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 6286.93 | 6033.11 | 24.77 | |
| 9500.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 6187.66 | 5933.71 | 24.37 | |
| 9600.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 6088.41 | 5834.33 | 23.96 | |
| 9700.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 5989.19 | 5734.98 | 23.56 | |
| 9800.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 5890.00 | 5635.57 | 23.15 | |
| 9900.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 5790.84 | 5536.16 | 22.74 | |
| 10000.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 5691.70 | 5436.77 | 22.33 | |
| 10100.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 5592.60 | 5337.37 | 21.91 | |
| 10200.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 5493.52 | 5238.01 | 21.50 | |
| 10300.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 5394.48 | 5138.67 | 21.09 | |
| 10400.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 5295.48 | 5039.27 | 20.67 | |
| 10500.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 5196.52 | 4939.91 | 20.25 | |
| 10600.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 5097.59 | 4840.58 | 19.83 | |
| 10700.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 4998.71 | 4741.30 | 19.42 | |
| 10800.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 4899.88 | 4642.06 | 19.01 | |
| 10900.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 4801.09 | 4542.77 | 18.59 | |
| 11000.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 4702.36 | 4443.50 | 18.17 | |

5D Anti-Collision Report

| Secondary Well: Etter 30-33 (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 |
| 11100.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 4603.67 | 4344.31 | 17.75 | |
| 11200.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 4505.05 | 4245.17 | 17.34 | |
| 11300.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 4406.49 | 4145.92 | 16.91 | |
| 11400.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 4308.00 | 4046.77 | 16.49 | |
| 11500.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 4209.57 | 3947.75 | 16.08 | |
| 11600.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 4111.22 | 3848.79 | 15.67 | |
| 11700.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 4012.96 | 3749.82 | 15.25 | |
| 11800.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 3914.78 | 3650.73 | 14.83 | |
| 11900.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 3816.70 | 3551.80 | 14.41 | |
| 12000.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 3718.72 | 3453.02 | 14.00 | |
| 12100.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 3620.84 | 3354.14 | 13.58 | |
| 12200.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 3523.09 | 3255.42 | 13.16 | |
| 12300.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 3425.47 | 3156.85 | 12.75 | |
| 12400.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 3327.99 | 3058.35 | 12.34 | |
| 12500.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 3230.66 | 2959.75 | 11.93 | |
| 12600.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 3133.51 | 2861.29 | 11.51 | |
| 12700.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 3036.53 | 2762.97 | 11.10 | |
| 12800.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 2939.76 | 2664.79 | 10.69 | |
| 12900.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 2843.21 | 2566.77 | 10.28 | |
| 13000.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 2746.91 | 2468.83 | 9.88 | |
| 13100.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 2650.89 | 2370.98 | 9.47 | |
| 13200.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 2555.17 | 2273.35 | 9.07 | |
| 13300.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 2459.79 | 2175.96 | 8.67 | |
| 13400.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 2364.79 | 2078.50 | 8.26 | |
| 13500.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 2270.22 | 1981.18 | 7.85 | |
| 13600.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 2176.13 | 1884.19 | 7.45 | |
| 13700.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 2082.60 | 1787.34 | 7.05 | |
| 13800.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 1989.70 | 1690.84 | 6.66 | |
| 13900.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 1897.51 | 1594.84 | 6.27 | |
| 14000.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 1806.16 | 1499.42 | 5.89 | |
| 14100.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 1715.78 | 1404.70 | 5.52 | |
| 14200.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 1626.52 | 1310.85 | 5.15 | |
| 14300.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 1538.58 | 1217.12 | 4.79 | |
| 14400.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 1452.21 | 1124.26 | 4.43 | |
| 14500.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 1367.69 | 1032.67 | 4.08 | |
| 14600.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 1285.40 | 942.70 | 3.75 | |
| 14700.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 1205.78 | 854.76 | 3.44 | |
| 14800.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 1129.42 | 768.35 | 3.13 | |
| 14900.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 1057.00 | 685.83 | 2.85 | |
| 15000.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 989.41 | 607.52 | 2.59 | |
| 15100.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 927.68 | 534.12 | 2.36 | SF(Lo) |
| 15200.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 873.08 | 468.47 | 2.16 | SF(Lo) |
| 15300.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 827.00 | 410.78 | 1.99 | SF(Lo) |
| 15400.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 790.95 | 364.38 | 1.85 | SF(Lo) |
| 15500.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 766.34 | 332.43 | 1.77 | SF(Lo) |
| 15600.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 754.28 | 316.00 | 1.72 | SF(Lo) |
| 15700.00 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 755.39 | 316.20 | 1.72 | SF(Lo) |
| 15768.80 | 7035.00 | 0.00 | 0.00 | 7060.00 | 211.11 | 211.11 | 90.00 | 763.79 | 326.85 | 1.75 | SF(Lo) |
| Secondary Well: Goetzel I 29-14 (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 | 31.00 | 0.00 | 0.00 | 164.25 | 1631.90 | 1631.17 | 2241.32 | |
| 100.00 | 69.00 | 0.00 | 0.00 | 100.00 | 1.05 | 1.05 | 164.25 | 1631.60 | 1629.72 | 866.91 | |
| 200.00 | 169.00 | 0.00 | 0.00 | 200.00 | 2.60 | 2.60 | 164.25 | 1631.60 | 1627.95 | 446.45 | |
| 300.00 | 269.00 | 0.00 | 0.00 | 300.00 | 5.64 | 5.64 | 164.25 | 1631.60 | 1624.69 | 236.21 | |
| 400.00 | 368.98 | 0.00 | 0.00 | 399.98 | 8.67 | 8.67 | 20.17 | 1629.96 | 1619.83 | 160.78 | |
| 500.00 | 468.84 | 0.00 | 0.00 | 499.84 | 11.71 | 11.71 | 20.27 | 1625.05 | 1611.69 | 121.59 | |

5D Anti-Collision Report

| Secondary Well: Goetzel I 29-14 (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 |
| 600.00 | 568.45 | 0.00 | 0.00 | 599.45 | 14.73 | 14.73 | 20.43 | 1616.88 | 1600.28 | 97.42 | |
| 700.00 | 667.70 | 0.00 | 0.00 | 698.70 | 17.75 | 17.75 | 20.66 | 1605.45 | 1585.79 | 81.65 | |
| 800.00 | 766.47 | 0.00 | 0.00 | 797.47 | 20.75 | 20.75 | 20.97 | 1590.81 | 1567.91 | 69.47 | |
| 900.00 | 864.62 | 0.00 | 0.00 | 895.62 | 23.73 | 23.73 | 21.35 | 1572.97 | 1546.84 | 60.20 | |
| 1000.00 | 962.06 | 0.00 | 0.00 | 993.06 | 26.69 | 26.69 | 21.81 | 1551.98 | 1522.62 | 52.85 | |
| 1100.00 | 1058.64 | 0.00 | 0.00 | 1089.64 | 29.62 | 29.62 | 22.35 | 1527.88 | 1495.27 | 46.85 | |
| 1200.00 | 1154.27 | 0.00 | 0.00 | 1185.27 | 32.52 | 32.52 | 22.99 | 1500.73 | 1464.89 | 41.87 | |
| 1300.00 | 1248.82 | 0.00 | 0.00 | 1279.82 | 35.39 | 35.39 | 23.74 | 1470.60 | 1431.52 | 37.63 | |
| 1400.00 | 1342.37 | 0.00 | 0.00 | 1373.37 | 38.24 | 38.24 | 24.42 | 1438.01 | 1395.70 | 33.98 | |
| 1500.00 | 1435.80 | 0.00 | 0.00 | 1466.80 | 41.07 | 41.07 | 25.02 | 1405.27 | 1359.71 | 30.85 | |
| 1600.00 | 1529.23 | 0.00 | 0.00 | 1560.23 | 43.91 | 43.91 | 25.64 | 1372.67 | 1323.87 | 28.13 | |
| 1700.00 | 1622.66 | 0.00 | 0.00 | 1653.66 | 46.75 | 46.75 | 26.29 | 1340.22 | 1288.15 | 25.74 | |
| 1800.00 | 1716.09 | 0.00 | 0.00 | 1747.09 | 49.58 | 49.58 | 26.97 | 1307.94 | 1252.59 | 23.63 | |
| 1900.00 | 1809.52 | 0.00 | 0.00 | 1840.52 | 52.42 | 52.42 | 27.69 | 1275.84 | 1217.20 | 21.76 | |
| 2000.00 | 1902.96 | 0.00 | 0.00 | 1933.96 | 55.26 | 55.26 | 28.44 | 1243.94 | 1182.01 | 20.09 | |
| 2100.00 | 1996.39 | 0.00 | 0.00 | 2027.39 | 58.10 | 58.10 | 29.23 | 1212.24 | 1147.02 | 18.59 | |
| 2200.00 | 2089.82 | 0.00 | 0.00 | 2120.82 | 60.93 | 60.93 | 30.06 | 1180.77 | 1112.25 | 17.23 | |
| 2300.00 | 2183.25 | 0.00 | 0.00 | 2214.25 | 63.77 | 63.77 | 30.94 | 1149.54 | 1077.71 | 16.00 | |
| 2400.00 | 2276.68 | 0.00 | 0.00 | 2307.68 | 66.61 | 66.61 | 31.86 | 1118.58 | 1043.44 | 14.89 | |
| 2500.00 | 2370.11 | 0.00 | 0.00 | 2401.11 | 69.45 | 69.45 | 32.83 | 1087.90 | 1009.43 | 13.86 | |
| 2600.00 | 2463.55 | 0.00 | 0.00 | 2494.55 | 72.28 | 72.28 | 33.86 | 1057.53 | 975.56 | 12.90 | |
| 2700.00 | 2556.98 | 0.00 | 0.00 | 2587.98 | 75.12 | 75.12 | 34.94 | 1027.50 | 942.03 | 12.02 | |
| 2800.00 | 2650.41 | 0.00 | 0.00 | 2681.41 | 77.96 | 77.96 | 36.09 | 997.85 | 908.87 | 11.22 | |
| 2900.00 | 2743.84 | 0.00 | 0.00 | 2774.84 | 80.80 | 80.80 | 37.30 | 968.59 | 876.11 | 10.47 | |
| 3000.00 | 2837.27 | 0.00 | 0.00 | 2868.27 | 83.63 | 83.63 | 38.58 | 939.78 | 843.76 | 9.79 | |
| 3100.00 | 2930.70 | 0.00 | 0.00 | 2961.70 | 86.47 | 86.47 | 39.94 | 911.45 | 811.92 | 9.16 | |
| 3200.00 | 3024.14 | 0.00 | 0.00 | 3055.14 | 89.31 | 89.31 | 41.39 | 883.65 | 780.63 | 8.58 | |
| 3300.00 | 3117.57 | 0.00 | 0.00 | 3148.57 | 92.15 | 92.15 | 42.92 | 856.43 | 749.95 | 8.04 | |
| 3400.00 | 3211.00 | 0.00 | 0.00 | 3242.00 | 94.98 | 94.98 | 44.54 | 829.85 | 719.54 | 7.52 | |
| 3500.00 | 3304.43 | 0.00 | 0.00 | 3335.43 | 97.82 | 97.82 | 46.26 | 803.98 | 689.86 | 7.05 | |
| 3600.00 | 3397.86 | 0.00 | 0.00 | 3428.86 | 100.66 | 100.66 | 48.09 | 778.87 | 660.99 | 6.61 | |
| 3700.00 | 3491.29 | 0.00 | 0.00 | 3522.29 | 103.50 | 103.50 | 50.03 | 754.61 | 632.99 | 6.20 | |
| 3800.00 | 3584.73 | 0.00 | 0.00 | 3615.73 | 106.33 | 106.33 | 52.08 | 731.29 | 606.05 | 5.84 | |
| 3900.00 | 3678.16 | 0.00 | 0.00 | 3709.16 | 109.17 | 109.17 | 54.26 | 708.99 | 579.78 | 5.49 | |
| 4000.00 | 3771.59 | 0.00 | 0.00 | 3802.59 | 112.01 | 112.01 | 56.56 | 687.82 | 554.53 | 5.16 | |
| 4100.00 | 3865.02 | 0.00 | 0.00 | 3896.02 | 114.85 | 114.85 | 58.99 | 667.88 | 530.68 | 4.87 | |
| 4200.00 | 3958.45 | 0.00 | 0.00 | 3989.45 | 117.68 | 117.68 | 61.55 | 649.28 | 508.42 | 4.61 | |
| 4300.00 | 4051.88 | 0.00 | 0.00 | 4082.88 | 120.52 | 120.52 | 64.24 | 632.15 | 487.18 | 4.36 | |
| 4400.00 | 4145.32 | 0.00 | 0.00 | 4176.32 | 123.36 | 123.36 | 67.06 | 616.61 | 467.41 | 4.13 | |
| 4500.00 | 4238.75 | 0.00 | 0.00 | 4269.75 | 126.19 | 126.19 | 70.00 | 602.77 | 449.72 | 3.94 | |
| 4600.00 | 4332.18 | 0.00 | 0.00 | 4363.18 | 129.03 | 129.03 | 73.05 | 590.77 | 433.89 | 3.77 | |
| 4700.00 | 4425.61 | 0.00 | 0.00 | 4456.61 | 131.87 | 131.87 | 76.21 | 580.71 | 419.61 | 3.60 | |
| 4800.00 | 4519.04 | 0.00 | 0.00 | 4550.04 | 134.71 | 134.71 | 79.46 | 572.69 | 407.91 | 3.48 | |
| 4900.00 | 4612.47 | 0.00 | 0.00 | 4643.47 | 137.54 | 137.54 | 82.77 | 566.81 | 398.26 | 3.36 | |
| 5000.00 | 4705.91 | 0.00 | 0.00 | 4736.91 | 140.38 | 140.38 | 86.14 | 563.12 | 390.50 | 3.26 | |
| 5100.00 | 4799.34 | 0.00 | 0.00 | 4830.34 | 143.22 | 143.22 | 89.53 | 561.68 | 385.65 | 3.19 | |
| 5200.00 | 4892.77 | 0.00 | 0.00 | 4923.77 | 146.06 | 146.06 | 92.92 | 562.50 | 382.79 | 3.13 | |
| 5300.00 | 4986.20 | 0.00 | 0.00 | 5017.20 | 148.89 | 148.89 | 96.30 | 565.56 | 382.28 | 3.09 | |
| 5400.00 | 5079.63 | 0.00 | 0.00 | 5110.63 | 151.73 | 151.73 | 99.63 | 570.84 | 384.71 | 3.07 | |
| 5500.00 | 5173.06 | 0.00 | 0.00 | 5204.06 | 154.57 | 154.57 | 102.90 | 578.27 | 388.55 | 3.05 | |
| 5600.00 | 5266.50 | 0.00 | 0.00 | 5297.50 | 157.41 | 157.41 | 106.08 | 587.78 | 394.80 | 3.05 | |
| 5700.00 | 5359.93 | 0.00 | 0.00 | 5390.93 | 160.24 | 160.24 | 109.16 | 599.26 | 403.67 | 3.06 | |
| 5800.00 | 5453.36 | 0.00 | 0.00 | 5484.36 | 163.08 | 163.08 | 112.14 | 612.59 | 413.68 | 3.08 | |
| 5900.00 | 5546.79 | 0.00 | 0.00 | 5577.79 | 165.92 | 165.92 | 114.99 | 627.68 | 425.77 | 3.11 | |
| 6000.00 | 5640.22 | 0.00 | 0.00 | 5671.22 | 168.76 | 168.76 | 117.72 | 644.38 | 440.00 | 3.15 | |
| 6100.00 | 5733.65 | 0.00 | 0.00 | 5764.65 | 171.59 | 171.59 | 120.32 | 662.58 | 455.55 | 3.20 | |
| 6200.00 | 5827.09 | 0.00 | 0.00 | 5858.09 | 174.43 | 174.43 | 122.78 | 682.16 | 471.98 | 3.25 | |
| 6300.00 | 5920.52 | 0.00 | 0.00 | 5951.52 | 177.27 | 177.27 | 125.12 | 703.00 | 490.05 | 3.30 | |

5D Anti-Collision Report

| Secondary Well: Goetzel I 29-14 (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 |
| 6400.00 | 6013.95 | 0.00 | 0.00 | 6044.95 | 180.11 | 180.11 | 127.33 | 725.00 | 509.60 | 3.37 | |
| 6500.00 | 6107.38 | 0.00 | 0.00 | 6138.38 | 182.94 | 182.94 | 129.42 | 748.05 | 530.23 | 3.43 | |
| 6600.00 | 6200.81 | 0.00 | 0.00 | 6231.81 | 185.78 | 185.78 | 131.39 | 772.05 | 551.18 | 3.50 | |
| 6700.00 | 6294.98 | 0.00 | 0.00 | 6325.98 | 188.64 | 188.64 | 115.32 | 792.15 | 568.53 | 3.54 | |
| 6800.00 | 6390.13 | 0.00 | 0.00 | 6421.13 | 191.53 | 191.53 | 92.67 | 799.89 | 573.92 | 3.54 | |
| 6900.00 | 6484.44 | 0.00 | 0.00 | 6515.44 | 194.39 | 194.39 | 73.99 | 795.31 | 567.34 | 3.49 | |
| 7000.00 | 6576.08 | 0.00 | 0.00 | 6607.08 | 197.18 | 197.18 | 62.71 | 778.91 | 548.74 | 3.38 | |
| 7100.00 | 6663.25 | 0.00 | 0.00 | 6694.25 | 199.82 | 199.82 | 57.37 | 751.57 | 519.27 | 3.24 | |
| 7200.00 | 6744.27 | 0.00 | 0.00 | 6775.27 | 202.28 | 202.28 | 56.22 | 714.50 | 481.20 | 3.06 | |
| 7300.00 | 6817.56 | 0.00 | 0.00 | 6848.56 | 204.51 | 204.51 | 58.23 | 669.42 | 435.16 | 2.86 | |
| 7400.00 | 6881.68 | 0.00 | 0.00 | 6912.68 | 206.46 | 206.46 | 62.80 | 618.51 | 383.78 | 2.64 | |
| 7500.00 | 6935.40 | 0.00 | 0.00 | 6966.40 | 208.09 | 208.09 | 69.28 | 564.67 | 329.85 | 2.40 | SF(Lo) |
| 7600.00 | 6977.67 | 0.00 | 0.00 | 7008.67 | 209.37 | 209.37 | 76.60 | 511.61 | 277.39 | 2.18 | SF(Lo) |
| 7700.00 | 7007.66 | 0.00 | 0.00 | 7038.66 | 210.28 | 210.28 | 83.34 | 464.03 | 229.65 | 1.98 | SF(Lo) |
| 7800.00 | 7024.79 | 0.00 | 0.00 | 7055.79 | 210.80 | 210.80 | 88.15 | 427.50 | 191.10 | 1.81 | SF(Lo) |
| 7900.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 407.52 | 167.59 | 1.70 | SF(Lo) |
| 8000.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 410.18 | 166.49 | 1.68 | SF(Lo) |
| 8100.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 436.37 | 188.09 | 1.76 | SF(Lo) |
| 8200.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 482.28 | 231.07 | 1.92 | SF(Lo) |
| 8300.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 542.92 | 290.07 | 2.15 | SF(Lo) |
| 8400.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 613.95 | 360.95 | 2.43 | SF(Lo) |
| 8500.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 692.18 | 438.16 | 2.72 | |
| 8600.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 775.43 | 522.05 | 3.06 | |
| 8700.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 862.24 | 608.19 | 3.39 | |
| 8800.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 951.65 | 697.74 | 3.75 | |
| 8900.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 1042.98 | 789.66 | 4.12 | |
| 9000.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 1135.77 | 882.65 | 4.49 | |
| 9100.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 1229.70 | 976.45 | 4.86 | |
| 9200.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 1324.51 | 1071.21 | 5.23 | |
| 9300.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 1420.04 | 1166.84 | 5.61 | |
| 9400.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 1516.14 | 1263.15 | 5.99 | |
| 9500.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 1612.72 | 1360.00 | 6.38 | |
| 9600.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 1709.69 | 1457.28 | 6.77 | |
| 9700.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 1806.99 | 1554.90 | 7.17 | |
| 9800.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 1904.57 | 1652.82 | 7.57 | |
| 9900.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 2002.38 | 1750.80 | 7.96 | |
| 10000.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 2100.41 | 1848.81 | 8.35 | |
| 10100.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 2198.61 | 1946.96 | 8.74 | |
| 10200.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 2296.97 | 2045.24 | 9.12 | |
| 10300.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 2395.46 | 2143.67 | 9.51 | |
| 10400.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 2494.08 | 2242.23 | 9.90 | |
| 10500.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 2592.80 | 2340.92 | 10.29 | |
| 10600.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 2691.61 | 2439.73 | 10.69 | |
| 10700.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 2790.51 | 2538.63 | 11.08 | |
| 10800.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 2889.48 | 2637.64 | 11.47 | |
| 10900.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 2988.53 | 2736.74 | 11.87 | |
| 11000.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 3087.63 | 2835.94 | 12.27 | |
| 11100.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 3186.79 | 2935.08 | 12.66 | |
| 11200.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 3286.00 | 3034.25 | 13.05 | |
| 11300.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 3385.26 | 3133.53 | 13.45 | |
| 11400.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 3484.56 | 3232.95 | 13.85 | |
| 11500.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 3583.90 | 3332.28 | 14.24 | |
| 11600.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 3683.27 | 3431.63 | 14.64 | |
| 11700.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 3782.68 | 3531.17 | 15.04 | |
| 11800.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 3882.12 | 3630.57 | 15.43 | |
| 11900.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 3981.59 | 3730.05 | 15.83 | |
| 12000.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 4081.08 | 3829.70 | 16.23 | |
| 12100.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 4180.59 | 3929.11 | 16.62 | |

5D Anti-Collision Report

| Secondary Well: Goetzel I 29-14 (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 |
| 12200.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 4280.13 | 4028.69 | 17.02 | |
| 12300.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 4379.69 | 4128.39 | 17.43 | |
| 12400.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 4479.27 | 4227.91 | 17.82 | |
| 12500.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 4578.87 | 4327.49 | 18.21 | |
| 12600.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 4678.49 | 4427.13 | 18.61 | |
| 12700.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 4778.12 | 4526.83 | 19.01 | |
| 12800.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 4877.76 | 4626.56 | 19.42 | |
| 12900.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 4977.42 | 4726.25 | 19.82 | |
| 13000.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 5077.10 | 4825.89 | 20.21 | |
| 13100.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 5176.79 | 4925.56 | 20.61 | |
| 13200.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 5276.48 | 5025.25 | 21.00 | |
| 13300.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 5376.19 | 5124.96 | 21.40 | |
| 13400.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 5475.91 | 5224.69 | 21.80 | |
| 13500.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 5575.64 | 5324.43 | 22.19 | |
| 13600.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 5675.38 | 5424.18 | 22.59 | |
| 13700.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 5775.13 | 5523.95 | 22.99 | |
| 13800.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 5874.89 | 5623.73 | 23.39 | |
| 13900.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 5974.65 | 5723.51 | 23.79 | |
| 14000.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 6074.43 | 5823.30 | 24.19 | |
| 14100.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 6174.21 | 5923.10 | 24.59 | |
| 14200.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 6274.00 | 6022.91 | 24.99 | |
| 14300.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 6373.79 | 6122.72 | 25.39 | |
| 14400.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 6473.59 | 6222.54 | 25.79 | |
| 14500.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 6573.40 | 6322.36 | 26.18 | |
| 14600.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 6673.21 | 6422.19 | 26.58 | |
| 14700.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 6773.03 | 6522.02 | 26.98 | |
| 14800.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 6872.85 | 6621.85 | 27.38 | |
| 14900.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 6972.68 | 6721.67 | 27.78 | |
| 15000.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 7072.51 | 6821.49 | 28.18 | |
| 15100.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 7172.35 | 6921.32 | 28.57 | |
| 15200.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 7272.19 | 7021.15 | 28.97 | |
| 15300.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 7372.04 | 7120.99 | 29.36 | |
| 15400.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 7471.89 | 7220.83 | 29.76 | |
| 15500.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 7571.74 | 7320.67 | 30.16 | |
| 15600.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 7671.60 | 7420.52 | 30.55 | |
| 15700.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 7771.46 | 7520.37 | 30.95 | |
| 15768.80 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 7840.16 | 7589.06 | 31.22 | |
| Secondary Well: Firestien #30-4-21 (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 | 30.00 | 0.00 | 0.00 | 236.56 | 3772.18 | 3771.45 | 5180.86 | |
| 100.00 | 70.00 | 0.00 | 0.00 | 100.00 | 1.06 | 1.06 | 236.56 | 3772.06 | 3770.16 | 1987.03 | |
| 200.00 | 170.00 | 0.00 | 0.00 | 200.00 | 2.63 | 2.63 | 236.56 | 3772.06 | 3768.38 | 1022.87 | |
| 300.00 | 270.00 | 0.00 | 0.00 | 300.00 | 5.67 | 5.67 | 236.56 | 3772.06 | 3765.12 | 543.25 | |
| 400.00 | 369.98 | 0.00 | 0.00 | 399.98 | 8.71 | 8.71 | 92.47 | 3772.14 | 3761.96 | 370.64 | |
| 500.00 | 469.84 | 0.00 | 0.00 | 499.84 | 11.74 | 11.74 | 92.55 | 3772.37 | 3759.13 | 285.07 | |
| 600.00 | 569.45 | 0.00 | 0.00 | 599.45 | 14.76 | 14.76 | 92.67 | 3772.77 | 3756.28 | 228.82 | |
| 700.00 | 668.70 | 0.00 | 0.00 | 698.70 | 17.78 | 17.78 | 92.84 | 3773.36 | 3753.58 | 190.79 | |
| 800.00 | 767.47 | 0.00 | 0.00 | 797.47 | 20.78 | 20.78 | 93.06 | 3774.17 | 3751.07 | 163.38 | |
| 900.00 | 865.62 | 0.00 | 0.00 | 895.62 | 23.76 | 23.76 | 93.32 | 3775.25 | 3748.79 | 142.67 | |
| 1000.00 | 963.06 | 0.00 | 0.00 | 993.06 | 26.72 | 26.72 | 93.63 | 3776.65 | 3746.80 | 126.50 | |
| 1100.00 | 1059.64 | 0.00 | 0.00 | 1089.64 | 29.65 | 29.65 | 93.97 | 3778.43 | 3745.13 | 113.46 | |
| 1200.00 | 1155.27 | 0.00 | 0.00 | 1185.27 | 32.55 | 32.55 | 94.35 | 3780.65 | 3743.87 | 102.80 | |
| 1300.00 | 1249.82 | 0.00 | 0.00 | 1279.82 | 35.42 | 35.42 | 94.76 | 3783.38 | 3743.09 | 93.91 | |
| 1400.00 | 1343.37 | 0.00 | 0.00 | 1373.37 | 38.27 | 38.27 | 95.23 | 3786.66 | 3742.84 | 86.41 | |
| 1500.00 | 1436.80 | 0.00 | 0.00 | 1466.80 | 41.10 | 41.10 | 95.73 | 3790.30 | 3742.94 | 80.02 | |
| 1600.00 | 1530.23 | 0.00 | 0.00 | 1560.23 | 43.94 | 43.94 | 96.23 | 3794.27 | 3743.36 | 74.53 | |

5D Anti-Collision Report

| Secondary Well: Firestien #30-4-21 (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 |
| 1700.00 | 1623.66 | 0.00 | 0.00 | 1653.66 | 46.78 | 46.78 | 96.73 | 3798.57 | 3744.12 | 69.75 | |
| 1800.00 | 1717.09 | 0.00 | 0.00 | 1747.09 | 49.62 | 49.62 | 97.23 | 3803.21 | 3745.21 | 65.57 | |
| 1900.00 | 1810.52 | 0.00 | 0.00 | 1840.52 | 52.45 | 52.45 | 97.73 | 3808.17 | 3746.63 | 61.88 | |
| 2000.00 | 1903.96 | 0.00 | 0.00 | 1933.96 | 55.29 | 55.29 | 98.22 | 3813.45 | 3748.39 | 58.61 | |
| 2100.00 | 1997.39 | 0.00 | 0.00 | 2027.39 | 58.13 | 58.13 | 98.72 | 3819.06 | 3750.47 | 55.68 | |
| 2200.00 | 2090.82 | 0.00 | 0.00 | 2120.82 | 60.96 | 60.96 | 99.21 | 3825.00 | 3752.90 | 53.05 | |
| 2300.00 | 2184.25 | 0.00 | 0.00 | 2214.25 | 63.80 | 63.80 | 99.71 | 3831.26 | 3755.65 | 50.67 | |
| 2400.00 | 2277.68 | 0.00 | 0.00 | 2307.68 | 66.64 | 66.64 | 100.20 | 3837.84 | 3758.73 | 48.52 | |
| 2500.00 | 2371.11 | 0.00 | 0.00 | 2401.11 | 69.48 | 69.48 | 100.69 | 3844.74 | 3762.03 | 46.49 | |
| 2600.00 | 2464.55 | 0.00 | 0.00 | 2494.55 | 72.31 | 72.31 | 101.18 | 3851.95 | 3765.65 | 44.64 | |
| 2700.00 | 2557.98 | 0.00 | 0.00 | 2587.98 | 75.15 | 75.15 | 101.66 | 3859.48 | 3769.60 | 42.94 | |
| 2800.00 | 2651.41 | 0.00 | 0.00 | 2681.41 | 77.99 | 77.99 | 102.15 | 3867.33 | 3773.86 | 41.38 | |
| 2900.00 | 2744.84 | 0.00 | 0.00 | 2774.84 | 80.83 | 80.83 | 102.63 | 3875.49 | 3778.44 | 39.93 | |
| 3000.00 | 2838.27 | 0.00 | 0.00 | 2868.27 | 83.66 | 83.66 | 103.11 | 3883.95 | 3783.34 | 38.60 | |
| 3100.00 | 2931.70 | 0.00 | 0.00 | 2961.70 | 86.50 | 86.50 | 103.59 | 3892.73 | 3788.55 | 37.37 | |
| 3200.00 | 3025.14 | 0.00 | 0.00 | 3055.14 | 89.34 | 89.34 | 104.07 | 3901.81 | 3794.08 | 36.22 | |
| 3300.00 | 3118.57 | 0.00 | 0.00 | 3148.57 | 92.18 | 92.18 | 104.54 | 3911.19 | 3799.92 | 35.15 | |
| 3400.00 | 3212.00 | 0.00 | 0.00 | 3242.00 | 95.01 | 95.01 | 105.02 | 3920.88 | 3806.07 | 34.15 | |
| 3500.00 | 3305.43 | 0.00 | 0.00 | 3335.43 | 97.85 | 97.85 | 105.49 | 3930.87 | 3812.54 | 33.22 | |
| 3600.00 | 3398.86 | 0.00 | 0.00 | 3428.86 | 100.69 | 100.69 | 105.96 | 3941.15 | 3819.31 | 32.35 | |
| 3700.00 | 3492.29 | 0.00 | 0.00 | 3522.29 | 103.53 | 103.53 | 106.42 | 3951.73 | 3826.39 | 31.53 | |
| 3800.00 | 3585.73 | 0.00 | 0.00 | 3615.73 | 106.36 | 106.36 | 106.89 | 3962.60 | 3833.77 | 30.76 | |
| 3900.00 | 3679.16 | 0.00 | 0.00 | 3709.16 | 109.20 | 109.20 | 107.35 | 3973.76 | 3841.46 | 30.04 | |
| 4000.00 | 3772.59 | 0.00 | 0.00 | 3802.59 | 112.04 | 112.04 | 107.81 | 3985.21 | 3849.45 | 29.36 | |
| 4100.00 | 3866.02 | 0.00 | 0.00 | 3896.02 | 114.88 | 114.88 | 108.27 | 3996.94 | 3857.74 | 28.71 | |
| 4200.00 | 3959.45 | 0.00 | 0.00 | 3989.45 | 117.71 | 117.71 | 108.72 | 4008.95 | 3866.33 | 28.11 | |
| 4300.00 | 4052.88 | 0.00 | 0.00 | 4082.88 | 120.55 | 120.55 | 109.18 | 4021.25 | 3875.21 | 27.54 | |
| 4400.00 | 4146.32 | 0.00 | 0.00 | 4176.32 | 123.39 | 123.39 | 109.63 | 4033.82 | 3884.38 | 26.99 | |
| 4500.00 | 4239.75 | 0.00 | 0.00 | 4269.75 | 126.23 | 126.23 | 110.08 | 4046.67 | 3893.67 | 26.45 | |
| 4600.00 | 4333.18 | 0.00 | 0.00 | 4363.18 | 129.06 | 129.06 | 110.52 | 4059.79 | 3903.24 | 25.93 | |
| 4700.00 | 4426.61 | 0.00 | 0.00 | 4456.61 | 131.90 | 131.90 | 110.96 | 4073.18 | 3913.09 | 25.44 | |
| 4800.00 | 4520.04 | 0.00 | 0.00 | 4550.04 | 134.74 | 134.74 | 111.40 | 4086.84 | 3923.22 | 24.98 | |
| 4900.00 | 4613.47 | 0.00 | 0.00 | 4643.47 | 137.57 | 137.57 | 111.84 | 4100.76 | 3933.62 | 24.54 | |
| 5000.00 | 4706.91 | 0.00 | 0.00 | 4736.91 | 140.41 | 140.41 | 112.28 | 4114.94 | 3944.30 | 24.11 | |
| 5100.00 | 4800.34 | 0.00 | 0.00 | 4830.34 | 143.25 | 143.25 | 112.71 | 4129.38 | 3955.25 | 23.71 | |
| 5200.00 | 4893.77 | 0.00 | 0.00 | 4923.77 | 146.09 | 146.09 | 113.14 | 4144.08 | 3966.47 | 23.33 | |
| 5300.00 | 4987.20 | 0.00 | 0.00 | 5017.20 | 148.92 | 148.92 | 113.56 | 4159.03 | 3977.95 | 22.97 | |
| 5400.00 | 5080.63 | 0.00 | 0.00 | 5110.63 | 151.76 | 151.76 | 113.99 | 4174.24 | 3989.70 | 22.62 | |
| 5500.00 | 5174.06 | 0.00 | 0.00 | 5204.06 | 154.60 | 154.60 | 114.41 | 4189.69 | 4001.71 | 22.29 | |
| 5600.00 | 5267.50 | 0.00 | 0.00 | 5297.50 | 157.44 | 157.44 | 114.83 | 4205.38 | 4013.98 | 21.97 | |
| 5700.00 | 5360.93 | 0.00 | 0.00 | 5390.93 | 160.27 | 160.27 | 115.24 | 4221.32 | 4026.51 | 21.67 | |
| 5800.00 | 5454.36 | 0.00 | 0.00 | 5484.36 | 163.11 | 163.11 | 115.66 | 4237.50 | 4039.29 | 21.38 | |
| 5900.00 | 5547.79 | 0.00 | 0.00 | 5577.79 | 165.95 | 165.95 | 116.07 | 4253.92 | 4052.33 | 21.10 | |
| 6000.00 | 5641.22 | 0.00 | 0.00 | 5671.22 | 168.79 | 168.79 | 116.47 | 4270.57 | 4065.62 | 20.84 | |
| 6100.00 | 5734.65 | 0.00 | 0.00 | 5764.65 | 171.62 | 171.62 | 116.88 | 4287.45 | 4079.15 | 20.58 | |
| 6200.00 | 5828.09 | 0.00 | 0.00 | 5858.09 | 174.46 | 174.46 | 117.28 | 4304.56 | 4092.93 | 20.34 | |
| 6300.00 | 5921.52 | 0.00 | 0.00 | 5951.52 | 177.30 | 177.30 | 117.68 | 4321.90 | 4106.95 | 20.11 | |
| 6400.00 | 6014.95 | 0.00 | 0.00 | 6044.95 | 180.14 | 180.14 | 118.07 | 4339.46 | 4121.21 | 19.88 | |
| 6500.00 | 6108.38 | 0.00 | 0.00 | 6138.38 | 182.97 | 182.97 | 118.47 | 4357.24 | 4135.70 | 19.67 | |
| 6600.00 | 6201.81 | 0.00 | 0.00 | 6231.81 | 185.81 | 185.81 | 118.86 | 4375.24 | 4150.43 | 19.46 | |
| 6700.00 | 6295.98 | 0.00 | 0.00 | 6325.98 | 188.67 | 188.67 | 101.54 | 4388.50 | 4160.47 | 19.25 | |
| 6800.00 | 6391.13 | 0.00 | 0.00 | 6421.13 | 191.56 | 191.56 | 77.37 | 4388.22 | 4156.88 | 18.97 | |
| 6900.00 | 6485.44 | 0.00 | 0.00 | 6515.44 | 194.42 | 194.42 | 56.72 | 4374.26 | 4139.67 | 18.65 | |
| 7000.00 | 6577.08 | 0.00 | 0.00 | 6607.08 | 197.21 | 197.21 | 42.88 | 4346.86 | 4109.16 | 18.29 | |
| 7100.00 | 6664.25 | 0.00 | 0.00 | 6694.25 | 199.85 | 199.85 | 34.22 | 4306.53 | 4065.91 | 17.90 | |
| 7200.00 | 6745.27 | 0.00 | 0.00 | 6775.27 | 202.31 | 202.31 | 28.76 | 4254.04 | 4010.72 | 17.48 | |
| 7300.00 | 6818.56 | 0.00 | 0.00 | 6848.56 | 204.54 | 204.54 | 25.27 | 4190.35 | 3944.62 | 17.05 | |
| 7400.00 | 6882.68 | 0.00 | 0.00 | 6912.68 | 206.49 | 206.49 | 23.09 | 4116.69 | 3868.84 | 16.61 | |

5D Anti-Collision Report

| Secondary Well: Firestien #30-4-21 (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 |
| 7500.00 | 6936.40 | 0.00 | 0.00 | 6966.40 | 208.12 | 208.12 | 21.91 | 4034.43 | 3784.83 | 16.16 | |
| 7600.00 | 6978.67 | 0.00 | 0.00 | 7008.67 | 209.40 | 209.40 | 21.67 | 3945.14 | 3694.16 | 15.72 | |
| 7700.00 | 7008.66 | 0.00 | 0.00 | 7038.66 | 210.31 | 210.31 | 22.80 | 3850.52 | 3598.56 | 15.28 | |
| 7800.00 | 7025.79 | 0.00 | 0.00 | 7055.79 | 210.83 | 210.83 | 28.40 | 3752.37 | 3499.86 | 14.86 | |
| 7900.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 3652.60 | 3399.91 | 14.45 | |
| 8000.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 3552.63 | 3299.88 | 14.06 | |
| 8100.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 3452.66 | 3199.85 | 13.66 | |
| 8200.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 3352.69 | 3099.82 | 13.26 | |
| 8300.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 3252.73 | 2999.80 | 12.86 | |
| 8400.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 3152.76 | 2899.82 | 12.46 | |
| 8500.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 3052.80 | 2799.93 | 12.07 | |
| 8600.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 2952.85 | 2699.92 | 11.67 | |
| 8700.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 2852.89 | 2599.88 | 11.28 | |
| 8800.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 2752.94 | 2499.83 | 10.88 | |
| 8900.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 2652.99 | 2399.90 | 10.48 | |
| 9000.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 2553.05 | 2299.85 | 10.08 | |
| 9100.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 2453.11 | 2199.89 | 9.69 | |
| 9200.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 2353.18 | 2099.95 | 9.29 | |
| 9300.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 2253.25 | 2000.03 | 8.90 | |
| 9400.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 2153.33 | 1900.03 | 8.50 | |
| 9500.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 2053.42 | 1800.00 | 8.10 | |
| 9600.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 1953.51 | 1699.99 | 7.71 | |
| 9700.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 1853.62 | 1599.99 | 7.31 | |
| 9800.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 1753.74 | 1500.01 | 6.91 | |
| 9900.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 1653.87 | 1400.04 | 6.52 | |
| 10000.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 1554.02 | 1300.06 | 6.12 | |
| 10100.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 1454.19 | 1200.06 | 5.72 | |
| 10200.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 1354.39 | 1100.07 | 5.33 | |
| 10300.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 1254.61 | 1000.10 | 4.93 | |
| 10400.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 1154.88 | 900.16 | 4.53 | |
| 10500.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 1055.19 | 800.19 | 4.14 | |
| 10600.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 955.58 | 700.14 | 3.74 | |
| 10700.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 856.05 | 600.14 | 3.35 | |
| 10800.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 756.64 | 500.22 | 2.95 | |
| 10900.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 657.42 | 400.41 | 2.56 | |
| 11000.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 558.47 | 299.98 | 2.16 | SF(Lo) |
| 11100.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 459.98 | 199.02 | 1.76 | SF(Lo) |
| 11200.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 362.31 | 97.93 | 1.37 | SF(Med) |
| 11300.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 266.39 | -3.94 | 0.99 | SF(Hi) |
| 11400.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 175.08 | -109.77 | 0.61 | SF(Hi) |
| 11500.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 101.70 | -214.54 | 0.32 | SF(Hi) |
| 11600.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 100.17 | -208.97 | 0.32 | SF(Hi) |
| 11700.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 172.41 | -100.26 | 0.63 | SF(Hi) |
| 11800.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 263.47 | 3.88 | 1.01 | SF(Med) |
| 11900.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 359.31 | 104.58 | 1.41 | SF(Med) |
| 12000.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 456.94 | 204.43 | 1.81 | SF(Lo) |
| 12100.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 555.42 | 303.40 | 2.20 | SF(Lo) |
| 12200.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 654.35 | 402.55 | 2.60 | |
| 12300.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 753.57 | 502.08 | 3.00 | |
| 12400.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 852.97 | 601.52 | 3.39 | |
| 12500.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 952.50 | 701.06 | 3.79 | |
| 12600.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 1052.11 | 800.76 | 4.19 | |
| 12700.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 1151.80 | 900.50 | 4.58 | |
| 12800.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 1251.53 | 1000.30 | 4.98 | |
| 12900.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 1351.30 | 1100.14 | 5.38 | |
| 13000.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 1451.10 | 1199.92 | 5.78 | |
| 13100.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 1550.93 | 1299.71 | 6.17 | |
| 13200.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 1650.78 | 1399.53 | 6.57 | |

5D Anti-Collision Report

| Secondary Well: Firestien #30-4-21 (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 |
| 13300.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 1750.65 | 1499.38 | 6.97 | |
| 13400.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 1850.53 | 1599.25 | 7.36 | |
| 13500.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 1950.43 | 1699.14 | 7.76 | |
| 13600.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 2050.33 | 1799.02 | 8.16 | |
| 13700.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 2150.24 | 1898.92 | 8.56 | |
| 13800.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 2250.16 | 1998.82 | 8.95 | |
| 13900.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 2350.09 | 2098.74 | 9.35 | |
| 14000.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 2450.02 | 2198.66 | 9.75 | |
| 14100.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 2549.96 | 2298.59 | 10.14 | |
| 14200.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 2649.90 | 2398.47 | 10.54 | |
| 14300.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 2749.85 | 2498.35 | 10.93 | |
| 14400.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 2849.80 | 2598.24 | 11.33 | |
| 14500.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 2949.76 | 2698.14 | 11.72 | |
| 14600.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 3049.71 | 2798.04 | 12.12 | |
| 14700.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 3149.67 | 2897.95 | 12.51 | |
| 14800.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 3249.64 | 2997.86 | 12.91 | |
| 14900.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 3349.60 | 3097.78 | 13.30 | |
| 15000.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 3449.57 | 3197.70 | 13.70 | |
| 15100.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 3549.54 | 3297.63 | 14.09 | |
| 15200.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 3649.51 | 3397.56 | 14.48 | |
| 15300.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 3749.48 | 3497.49 | 14.88 | |
| 15400.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 3849.45 | 3597.42 | 15.27 | |
| 15500.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 3949.43 | 3697.34 | 15.67 | |
| 15600.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 4049.40 | 3797.27 | 16.06 | |
| 15700.00 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 4149.38 | 3897.21 | 16.45 | |
| 15768.80 | 7030.00 | 0.00 | 0.00 | 7060.00 | 210.96 | 210.96 | 90.00 | 4218.16 | 3965.96 | 16.73 | |
| Secondary Well: Goetzel 3-29 (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 | 31.00 | 0.00 | 0.00 | 144.04 | 2017.73 | 2016.96 | 2621.24 | |
| 100.00 | 69.00 | 0.00 | 0.00 | 100.00 | 1.05 | 1.05 | 144.04 | 2017.50 | 2015.57 | 1048.56 | |
| 200.00 | 169.00 | 0.00 | 0.00 | 200.00 | 2.60 | 2.60 | 144.04 | 2017.50 | 2013.80 | 545.70 | |
| 300.00 | 269.00 | 0.00 | 0.00 | 300.00 | 5.64 | 5.64 | 144.04 | 2017.50 | 2010.55 | 290.26 | |
| 400.00 | 368.98 | 0.00 | 0.00 | 399.98 | 8.67 | 8.67 | 359.92 | 2015.75 | 2005.57 | 197.97 | |
| 500.00 | 468.84 | 0.00 | 0.00 | 499.84 | 11.71 | 11.71 | 359.92 | 2010.52 | 1997.11 | 149.93 | |
| 600.00 | 568.45 | 0.00 | 0.00 | 599.45 | 14.73 | 14.73 | 359.92 | 2001.80 | 1985.33 | 121.49 | |
| 700.00 | 667.70 | 0.00 | 0.00 | 698.70 | 17.75 | 17.75 | 359.92 | 1989.62 | 1969.91 | 100.95 | |
| 800.00 | 766.47 | 0.00 | 0.00 | 797.47 | 20.75 | 20.75 | 359.92 | 1973.97 | 1951.03 | 86.04 | |
| 900.00 | 864.62 | 0.00 | 0.00 | 895.62 | 23.73 | 23.73 | 359.92 | 1954.89 | 1928.73 | 74.71 | |
| 1000.00 | 962.06 | 0.00 | 0.00 | 993.06 | 26.69 | 26.69 | 359.92 | 1932.40 | 1903.03 | 65.80 | |
| 1100.00 | 1058.64 | 0.00 | 0.00 | 1089.64 | 29.62 | 29.62 | 359.92 | 1906.52 | 1873.96 | 58.55 | |
| 1200.00 | 1154.27 | 0.00 | 0.00 | 1185.27 | 32.52 | 32.52 | 359.91 | 1877.28 | 1841.54 | 52.52 | |
| 1300.00 | 1248.82 | 0.00 | 0.00 | 1279.82 | 35.39 | 35.39 | 359.91 | 1844.73 | 1805.84 | 47.43 | |
| 1400.00 | 1342.37 | 0.00 | 0.00 | 1373.37 | 38.24 | 38.24 | 359.91 | 1809.40 | 1767.39 | 43.07 | |
| 1500.00 | 1435.80 | 0.00 | 0.00 | 1466.80 | 41.07 | 41.07 | 359.91 | 1773.76 | 1728.62 | 39.30 | |
| 1600.00 | 1529.23 | 0.00 | 0.00 | 1560.23 | 43.91 | 43.91 | 359.90 | 1738.11 | 1689.87 | 36.03 | |
| 1700.00 | 1622.66 | 0.00 | 0.00 | 1653.66 | 46.75 | 46.75 | 359.90 | 1702.47 | 1651.09 | 33.14 | |
| 1800.00 | 1716.09 | 0.00 | 0.00 | 1747.09 | 49.58 | 49.58 | 359.90 | 1666.82 | 1612.32 | 30.58 | |
| 1900.00 | 1809.52 | 0.00 | 0.00 | 1840.52 | 52.42 | 52.42 | 359.90 | 1631.18 | 1573.54 | 28.30 | |
| 2000.00 | 1902.96 | 0.00 | 0.00 | 1933.96 | 55.26 | 55.26 | 359.90 | 1595.53 | 1534.77 | 26.26 | |
| 2100.00 | 1996.39 | 0.00 | 0.00 | 2027.39 | 58.10 | 58.10 | 359.89 | 1559.89 | 1495.99 | 24.41 | |
| 2200.00 | 2089.82 | 0.00 | 0.00 | 2120.82 | 60.93 | 60.93 | 359.89 | 1524.25 | 1457.21 | 22.74 | |
| 2300.00 | 2183.25 | 0.00 | 0.00 | 2214.25 | 63.77 | 63.77 | 359.89 | 1488.60 | 1418.42 | 21.21 | |
| 2400.00 | 2276.68 | 0.00 | 0.00 | 2307.68 | 66.61 | 66.61 | 359.89 | 1452.96 | 1379.64 | 19.82 | |
| 2500.00 | 2370.11 | 0.00 | 0.00 | 2401.11 | 69.45 | 69.45 | 359.88 | 1417.31 | 1340.86 | 18.54 | |
| 2600.00 | 2463.55 | 0.00 | 0.00 | 2494.55 | 72.28 | 72.28 | 359.88 | 1381.67 | 1302.07 | 17.36 | |
| 2700.00 | 2556.98 | 0.00 | 0.00 | 2587.98 | 75.12 | 75.12 | 359.88 | 1346.02 | 1263.29 | 16.27 | |

5D Anti-Collision Report

| Secondary Well: Goetzel 3-29 (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 |
| 2800.00 | 2650.41 | 0.00 | 0.00 | 2681.41 | 77.96 | 77.96 | 359.87 | 1310.38 | 1224.50 | 15.26 | |
| 2900.00 | 2743.84 | 0.00 | 0.00 | 2774.84 | 80.80 | 80.80 | 359.87 | 1274.74 | 1185.71 | 14.32 | |
| 3000.00 | 2837.27 | 0.00 | 0.00 | 2868.27 | 83.63 | 83.63 | 359.87 | 1239.09 | 1146.93 | 13.44 | |
| 3100.00 | 2930.70 | 0.00 | 0.00 | 2961.70 | 86.47 | 86.47 | 359.86 | 1203.45 | 1108.14 | 12.63 | |
| 3200.00 | 3024.14 | 0.00 | 0.00 | 3055.14 | 89.31 | 89.31 | 359.86 | 1167.80 | 1069.35 | 11.86 | |
| 3300.00 | 3117.57 | 0.00 | 0.00 | 3148.57 | 92.15 | 92.15 | 359.85 | 1132.16 | 1030.56 | 11.14 | |
| 3400.00 | 3211.00 | 0.00 | 0.00 | 3242.00 | 94.98 | 94.98 | 359.85 | 1096.51 | 991.77 | 10.47 | |
| 3500.00 | 3304.43 | 0.00 | 0.00 | 3335.43 | 97.82 | 97.82 | 359.84 | 1060.87 | 952.98 | 9.83 | |
| 3600.00 | 3397.86 | 0.00 | 0.00 | 3428.86 | 100.66 | 100.66 | 359.84 | 1025.22 | 914.19 | 9.23 | |
| 3700.00 | 3491.29 | 0.00 | 0.00 | 3522.29 | 103.50 | 103.50 | 359.83 | 989.58 | 875.40 | 8.67 | |
| 3800.00 | 3584.73 | 0.00 | 0.00 | 3615.73 | 106.33 | 106.33 | 359.83 | 953.94 | 836.61 | 8.13 | |
| 3900.00 | 3678.16 | 0.00 | 0.00 | 3709.16 | 109.17 | 109.17 | 359.82 | 918.29 | 797.82 | 7.62 | |
| 4000.00 | 3771.59 | 0.00 | 0.00 | 3802.59 | 112.01 | 112.01 | 359.81 | 882.65 | 759.03 | 7.14 | |
| 4100.00 | 3865.02 | 0.00 | 0.00 | 3896.02 | 114.85 | 114.85 | 359.80 | 847.00 | 720.24 | 6.68 | |
| 4200.00 | 3958.45 | 0.00 | 0.00 | 3989.45 | 117.68 | 117.68 | 359.80 | 811.36 | 681.45 | 6.25 | |
| 4300.00 | 4051.88 | 0.00 | 0.00 | 4082.88 | 120.52 | 120.52 | 359.79 | 775.71 | 642.65 | 5.83 | |
| 4400.00 | 4145.32 | 0.00 | 0.00 | 4176.32 | 123.36 | 123.36 | 359.78 | 740.07 | 603.86 | 5.43 | |
| 4500.00 | 4238.75 | 0.00 | 0.00 | 4269.75 | 126.19 | 126.19 | 359.76 | 704.43 | 565.07 | 5.05 | |
| 4600.00 | 4332.18 | 0.00 | 0.00 | 4363.18 | 129.03 | 129.03 | 359.75 | 668.78 | 526.28 | 4.69 | |
| 4700.00 | 4425.61 | 0.00 | 0.00 | 4456.61 | 131.87 | 131.87 | 359.74 | 633.14 | 487.48 | 4.35 | |
| 4800.00 | 4519.04 | 0.00 | 0.00 | 4550.04 | 134.71 | 134.71 | 359.72 | 597.49 | 448.69 | 4.02 | |
| 4900.00 | 4612.47 | 0.00 | 0.00 | 4643.47 | 137.54 | 137.54 | 359.70 | 561.85 | 409.90 | 3.70 | |
| 5000.00 | 4705.91 | 0.00 | 0.00 | 4736.91 | 140.38 | 140.38 | 359.68 | 526.20 | 371.10 | 3.39 | |
| 5100.00 | 4799.34 | 0.00 | 0.00 | 4830.34 | 143.22 | 143.22 | 359.66 | 490.56 | 332.31 | 3.10 | |
| 5200.00 | 4892.77 | 0.00 | 0.00 | 4923.77 | 146.06 | 146.06 | 359.64 | 454.92 | 293.51 | 2.82 | |
| 5300.00 | 4986.20 | 0.00 | 0.00 | 5017.20 | 148.89 | 148.89 | 359.60 | 419.27 | 254.71 | 2.55 | |
| 5400.00 | 5079.63 | 0.00 | 0.00 | 5110.63 | 151.73 | 151.73 | 359.57 | 383.63 | 215.92 | 2.29 | SF(Lo) |
| 5500.00 | 5173.06 | 0.00 | 0.00 | 5204.06 | 154.57 | 154.57 | 359.52 | 347.99 | 177.12 | 2.04 | SF(Lo) |
| 5600.00 | 5266.50 | 0.00 | 0.00 | 5297.50 | 157.41 | 157.41 | 359.47 | 312.34 | 138.32 | 1.79 | SF(Lo) |
| 5700.00 | 5359.93 | 0.00 | 0.00 | 5390.93 | 160.24 | 160.24 | 359.40 | 276.70 | 99.51 | 1.56 | SF(Lo) |
| 5800.00 | 5453.36 | 0.00 | 0.00 | 5484.36 | 163.08 | 163.08 | 359.31 | 241.06 | 60.71 | 1.34 | SF(Med) |
| 5900.00 | 5546.79 | 0.00 | 0.00 | 5577.79 | 165.92 | 165.92 | 359.19 | 205.42 | 21.90 | 1.12 | SF(Med) |
| 6000.00 | 5640.22 | 0.00 | 0.00 | 5671.22 | 168.76 | 168.76 | 359.02 | 169.77 | -16.92 | 0.91 | SF(Hi) |
| 6100.00 | 5733.65 | 0.00 | 0.00 | 5764.65 | 171.59 | 171.59 | 358.76 | 134.14 | -55.75 | 0.71 | SF(Hi) |
| 6200.00 | 5827.09 | 0.00 | 0.00 | 5858.09 | 174.43 | 174.43 | 358.32 | 98.50 | -94.59 | 0.51 | SF(Hi) |
| 6300.00 | 5920.52 | 0.00 | 0.00 | 5951.52 | 177.27 | 177.27 | 357.36 | 62.88 | -133.56 | 0.32 | SF(Hi); CC (Lo) |
| 6400.00 | 6013.95 | 0.00 | 0.00 | 6044.95 | 180.11 | 180.11 | 353.92 | 27.31 | -172.61 | 0.14 | SF(Hi); CC (Med) |
| 6500.00 | 6107.38 | 0.00 | 0.00 | 6138.38 | 182.94 | 182.94 | 198.87 | 8.89 | -196.75 | 0.04 | SF(Hi); CC (Hi) |
| 6600.00 | 6200.81 | 0.00 | 0.00 | 6231.81 | 185.78 | 185.78 | 183.75 | 44.20 | -161.61 | 0.21 | SF(Hi); CC (Lo) |
| 6700.00 | 6294.98 | 0.00 | 0.00 | 6325.98 | 188.64 | 188.64 | 165.68 | 77.59 | -131.69 | 0.37 | SF(Hi) |
| 6800.00 | 6390.13 | 0.00 | 0.00 | 6421.13 | 191.53 | 191.53 | 146.63 | 105.76 | -107.56 | 0.50 | SF(Hi) |
| 6900.00 | 6484.44 | 0.00 | 0.00 | 6515.44 | 194.39 | 194.39 | 133.75 | 131.52 | -88.04 | 0.60 | SF(Hi) |
| 7000.00 | 6576.08 | 0.00 | 0.00 | 6607.08 | 197.18 | 197.18 | 128.74 | 158.82 | -68.32 | 0.70 | SF(Hi) |
| 7100.00 | 6663.25 | 0.00 | 0.00 | 6694.25 | 199.82 | 199.82 | 128.55 | 191.73 | -43.06 | 0.82 | SF(Hi) |
| 7200.00 | 6744.27 | 0.00 | 0.00 | 6775.27 | 202.28 | 202.28 | 130.03 | 233.31 | -8.03 | 0.97 | SF(Hi) |
| 7300.00 | 6817.56 | 0.00 | 0.00 | 6848.56 | 204.51 | 204.51 | 131.23 | 285.07 | 38.72 | 1.16 | SF(Med) |
| 7400.00 | 6881.68 | 0.00 | 0.00 | 6912.68 | 206.46 | 206.46 | 131.09 | 347.01 | 96.90 | 1.39 | SF(Med) |
| 7500.00 | 6935.40 | 0.00 | 0.00 | 6966.40 | 208.09 | 208.09 | 128.94 | 418.17 | 166.05 | 1.66 | SF(Lo) |
| 7600.00 | 6977.67 | 0.00 | 0.00 | 7008.67 | 209.37 | 209.37 | 124.08 | 497.04 | 242.95 | 1.96 | SF(Lo) |
| 7700.00 | 7007.66 | 0.00 | 0.00 | 7038.66 | 210.28 | 210.28 | 115.63 | 581.86 | 327.06 | 2.28 | SF(Lo) |
| 7800.00 | 7024.79 | 0.00 | 0.00 | 7055.79 | 210.80 | 210.80 | 102.85 | 670.71 | 415.05 | 2.62 | |
| 7900.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 761.68 | 506.52 | 2.99 | |
| 8000.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 854.31 | 599.56 | 3.35 | |
| 8100.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 948.43 | 693.64 | 3.72 | |
| 8200.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 1043.65 | 789.10 | 4.10 | |

5D Anti-Collision Report

| Secondary Well: Goetzel 3-29 (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 |
| 8300.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 1139.69 | 885.48 | 4.48 | |
| 8400.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 1236.36 | 982.45 | 4.87 | |
| 8500.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 1333.51 | 1080.05 | 5.26 | |
| 8600.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 1431.06 | 1178.04 | 5.66 | |
| 8700.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 1528.93 | 1276.06 | 6.05 | |
| 8800.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 1627.06 | 1374.16 | 6.43 | |
| 8900.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 1725.40 | 1472.48 | 6.82 | |
| 9000.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 1823.92 | 1571.04 | 7.21 | |
| 9100.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 1922.59 | 1669.70 | 7.60 | |
| 9200.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 2021.40 | 1768.54 | 7.99 | |
| 9300.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 2120.31 | 1867.52 | 8.39 | |
| 9400.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 2219.33 | 1966.61 | 8.78 | |
| 9500.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 2318.42 | 2065.80 | 9.18 | |
| 9600.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 2417.60 | 2165.06 | 9.57 | |
| 9700.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 2516.84 | 2264.40 | 9.97 | |
| 9800.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 2616.13 | 2363.79 | 10.37 | |
| 9900.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 2715.48 | 2463.24 | 10.77 | |
| 10000.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 2814.87 | 2562.74 | 11.16 | |
| 10100.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 2914.31 | 2662.22 | 11.56 | |
| 10200.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 3013.78 | 2761.73 | 11.96 | |
| 10300.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 3113.29 | 2861.28 | 12.35 | |
| 10400.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 3212.82 | 2960.86 | 12.75 | |
| 10500.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 3312.39 | 3060.47 | 13.15 | |
| 10600.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 3411.98 | 3160.09 | 13.55 | |
| 10700.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 3511.59 | 3259.74 | 13.94 | |
| 10800.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 3611.23 | 3359.42 | 14.34 | |
| 10900.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 3710.88 | 3459.15 | 14.74 | |
| 11000.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 3810.56 | 3558.93 | 15.14 | |
| 11100.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 3910.25 | 3658.59 | 15.54 | |
| 11200.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 4009.95 | 3758.26 | 15.93 | |
| 11300.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 4109.67 | 3858.00 | 16.33 | |
| 11400.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 4209.40 | 3957.84 | 16.73 | |
| 11500.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 4309.15 | 4057.58 | 17.13 | |
| 11600.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 4408.90 | 4157.30 | 17.52 | |
| 11700.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 4508.67 | 4257.18 | 17.93 | |
| 11800.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 4608.45 | 4356.92 | 18.32 | |
| 11900.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 4708.24 | 4456.70 | 18.72 | |
| 12000.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 4808.03 | 4556.66 | 19.13 | |
| 12100.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 4907.84 | 4656.36 | 19.52 | |
| 12200.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 5007.65 | 4756.19 | 19.91 | |
| 12300.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 5107.47 | 4856.13 | 20.32 | |
| 12400.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 5207.29 | 4955.96 | 20.72 | |
| 12500.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 5307.13 | 5055.76 | 21.11 | |
| 12600.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 5406.97 | 5155.60 | 21.51 | |
| 12700.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 5506.81 | 5255.47 | 21.91 | |
| 12800.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 5606.66 | 5355.37 | 22.31 | |
| 12900.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 5706.52 | 5455.29 | 22.71 | |
| 13000.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 5806.38 | 5555.16 | 23.11 | |
| 13100.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 5906.24 | 5654.99 | 23.51 | |
| 13200.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 6006.11 | 5754.84 | 23.90 | |
| 13300.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 6105.99 | 5854.70 | 24.30 | |
| 13400.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 6205.86 | 5954.58 | 24.70 | |
| 13500.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 6305.75 | 6054.46 | 25.09 | |
| 13600.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 6405.63 | 6154.35 | 25.49 | |
| 13700.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 6505.52 | 6254.25 | 25.89 | |
| 13800.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 6605.41 | 6354.15 | 26.29 | |
| 13900.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 6705.31 | 6454.04 | 26.69 | |
| 14000.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 6805.21 | 6553.95 | 27.08 | |

5D Anti-Collision Report

| Secondary Well: Goetzel 3-29 (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 |
| 14100.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 6905.11 | 6653.85 | 27.48 | |
| 14200.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 7005.01 | 6753.76 | 27.88 | |
| 14300.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 7104.92 | 6853.67 | 28.28 | |
| 14400.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 7204.83 | 6953.59 | 28.68 | |
| 14500.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 7304.74 | 7053.50 | 29.07 | |
| 14600.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 7404.66 | 7153.42 | 29.47 | |
| 14700.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 7504.57 | 7253.34 | 29.87 | |
| 14800.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 7604.49 | 7353.26 | 30.27 | |
| 14900.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 7704.41 | 7453.18 | 30.67 | |
| 15000.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 7804.34 | 7553.11 | 31.06 | |
| 15100.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 7904.26 | 7653.03 | 31.46 | |
| 15200.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 8004.19 | 7752.96 | 31.86 | |
| 15300.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 8104.12 | 7852.89 | 32.26 | |
| 15400.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 8204.05 | 7952.82 | 32.66 | |
| 15500.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 8303.98 | 8052.75 | 33.05 | |
| 15600.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 8403.91 | 8152.68 | 33.45 | |
| 15700.00 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 8503.85 | 8252.61 | 33.85 | |
| 15768.80 | 7029.00 | 0.00 | 0.00 | 7060.00 | 210.93 | 210.93 | 90.00 | 8572.60 | 8321.35 | 34.12 | |
| Secondary Well: Von Trotha Bros Inc #1 (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 | 44.00 | 0.00 | 0.00 | 223.75 | 3961.09 | 3960.35 | 5401.68 | |
| 100.00 | 56.00 | 0.00 | 0.00 | 100.00 | 0.85 | 0.85 | 223.75 | 3960.84 | 3959.15 | 2342.04 | |
| 200.00 | 156.00 | 0.00 | 0.00 | 200.00 | 2.37 | 2.37 | 223.75 | 3960.84 | 3957.41 | 1154.95 | |
| 300.00 | 256.00 | 0.00 | 0.00 | 300.00 | 5.24 | 5.24 | 223.75 | 3960.84 | 3954.32 | 607.27 | |
| 400.00 | 355.98 | 0.00 | 0.00 | 399.98 | 8.28 | 8.28 | 79.67 | 3960.53 | 3950.77 | 406.04 | |
| 500.00 | 455.84 | 0.00 | 0.00 | 499.84 | 11.31 | 11.31 | 79.76 | 3959.59 | 3946.61 | 305.01 | |
| 600.00 | 555.45 | 0.00 | 0.00 | 599.45 | 14.34 | 14.34 | 79.91 | 3958.05 | 3941.82 | 243.86 | |
| 700.00 | 654.70 | 0.00 | 0.00 | 698.70 | 17.35 | 17.35 | 80.13 | 3955.92 | 3936.41 | 202.79 | |
| 800.00 | 753.47 | 0.00 | 0.00 | 797.47 | 20.35 | 20.35 | 80.40 | 3953.24 | 3930.43 | 173.28 | |
| 900.00 | 851.62 | 0.00 | 0.00 | 895.62 | 23.33 | 23.33 | 80.73 | 3950.06 | 3923.91 | 151.05 | |
| 1000.00 | 949.06 | 0.00 | 0.00 | 993.06 | 26.29 | 26.29 | 81.12 | 3946.42 | 3916.89 | 133.67 | |
| 1100.00 | 1045.64 | 0.00 | 0.00 | 1089.64 | 29.22 | 29.22 | 81.56 | 3942.38 | 3909.44 | 119.66 | |
| 1200.00 | 1141.27 | 0.00 | 0.00 | 1185.27 | 32.13 | 32.13 | 82.05 | 3938.03 | 3901.62 | 108.15 | |
| 1300.00 | 1235.82 | 0.00 | 0.00 | 1279.82 | 35.00 | 35.00 | 82.58 | 3933.43 | 3893.49 | 98.49 | |
| 1400.00 | 1329.37 | 0.00 | 0.00 | 1373.37 | 37.84 | 37.84 | 83.10 | 3928.73 | 3885.25 | 90.35 | |
| 1500.00 | 1422.80 | 0.00 | 0.00 | 1466.80 | 40.68 | 40.68 | 83.58 | 3924.32 | 3877.27 | 83.41 | |
| 1600.00 | 1516.23 | 0.00 | 0.00 | 1560.23 | 43.52 | 43.52 | 84.07 | 3920.22 | 3869.59 | 77.44 | |
| 1700.00 | 1609.66 | 0.00 | 0.00 | 1653.66 | 46.35 | 46.35 | 84.55 | 3916.44 | 3862.24 | 72.26 | |
| 1800.00 | 1703.09 | 0.00 | 0.00 | 1747.09 | 49.19 | 49.19 | 85.04 | 3912.98 | 3855.19 | 67.72 | |
| 1900.00 | 1796.52 | 0.00 | 0.00 | 1840.52 | 52.03 | 52.03 | 85.53 | 3909.84 | 3848.47 | 63.71 | |
| 2000.00 | 1889.96 | 0.00 | 0.00 | 1933.96 | 54.86 | 54.86 | 86.01 | 3907.03 | 3842.08 | 60.15 | |
| 2100.00 | 1983.39 | 0.00 | 0.00 | 2027.39 | 57.70 | 57.70 | 86.50 | 3904.54 | 3836.01 | 56.97 | |
| 2200.00 | 2076.82 | 0.00 | 0.00 | 2120.82 | 60.54 | 60.54 | 86.99 | 3902.37 | 3830.26 | 54.12 | |
| 2300.00 | 2170.25 | 0.00 | 0.00 | 2214.25 | 63.38 | 63.38 | 87.48 | 3900.53 | 3824.85 | 51.54 | |
| 2400.00 | 2263.68 | 0.00 | 0.00 | 2307.68 | 66.21 | 66.21 | 87.97 | 3899.01 | 3819.77 | 49.20 | |
| 2500.00 | 2357.11 | 0.00 | 0.00 | 2401.11 | 69.05 | 69.05 | 88.45 | 3897.82 | 3815.01 | 47.07 | |
| 2600.00 | 2450.55 | 0.00 | 0.00 | 2494.55 | 71.89 | 71.89 | 88.94 | 3896.96 | 3810.60 | 45.12 | |
| 2700.00 | 2543.98 | 0.00 | 0.00 | 2587.98 | 74.73 | 74.73 | 89.43 | 3896.42 | 3806.51 | 43.34 | |
| 2800.00 | 2637.41 | 0.00 | 0.00 | 2681.41 | 77.56 | 77.56 | 89.92 | 3896.20 | 3802.77 | 41.70 | |
| 2900.00 | 2730.84 | 0.00 | 0.00 | 2774.84 | 80.40 | 80.40 | 90.41 | 3896.31 | 3799.36 | 40.19 | |
| 3000.00 | 2824.27 | 0.00 | 0.00 | 2868.27 | 83.24 | 83.24 | 90.90 | 3896.75 | 3796.26 | 38.78 | |
| 3100.00 | 2917.70 | 0.00 | 0.00 | 2961.70 | 86.08 | 86.08 | 91.39 | 3897.52 | 3793.39 | 37.43 | |
| 3200.00 | 3011.14 | 0.00 | 0.00 | 3055.14 | 88.91 | 88.91 | 91.88 | 3898.61 | 3790.85 | 36.18 | |
| 3300.00 | 3104.57 | 0.00 | 0.00 | 3148.57 | 91.75 | 91.75 | 92.37 | 3900.02 | 3788.64 | 35.01 | |
| 3400.00 | 3198.00 | 0.00 | 0.00 | 3242.00 | 94.59 | 94.59 | 92.86 | 3901.76 | 3786.76 | 33.93 | |
| 3500.00 | 3291.43 | 0.00 | 0.00 | 3335.43 | 97.43 | 97.43 | 93.35 | 3903.83 | 3785.21 | 32.91 | |

5D Anti-Collision Report

| Secondary Well: Von Trotha Bros Inc #1 (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 | 3384.86 | 0.00 | 0.00 | 3428.86 | 100.26 | 100.26 | 93.84 | 3906.22 | 3784.00 | 31.96 | |
| 3700.00 | 3478.29 | 0.00 | 0.00 | 3522.29 | 103.10 | 103.10 | 94.32 | 3908.93 | 3783.12 | 31.07 | |
| 3800.00 | 3571.73 | 0.00 | 0.00 | 3615.73 | 105.94 | 105.94 | 94.81 | 3911.97 | 3782.57 | 30.23 | |
| 3900.00 | 3665.16 | 0.00 | 0.00 | 3709.16 | 108.78 | 108.78 | 95.30 | 3915.33 | 3782.35 | 29.44 | |
| 4000.00 | 3758.59 | 0.00 | 0.00 | 3802.59 | 111.61 | 111.61 | 95.78 | 3919.01 | 3782.47 | 28.70 | |
| 4100.00 | 3852.02 | 0.00 | 0.00 | 3896.02 | 114.45 | 114.45 | 96.27 | 3923.01 | 3782.92 | 28.00 | |
| 4200.00 | 3945.45 | 0.00 | 0.00 | 3989.45 | 117.29 | 117.29 | 96.75 | 3927.32 | 3783.71 | 27.35 | |
| 4300.00 | 4038.88 | 0.00 | 0.00 | 4082.88 | 120.13 | 120.13 | 97.23 | 3931.96 | 3784.82 | 26.72 | |
| 4400.00 | 4132.32 | 0.00 | 0.00 | 4176.32 | 122.96 | 122.96 | 97.71 | 3936.92 | 3786.27 | 26.13 | |
| 4500.00 | 4225.75 | 0.00 | 0.00 | 4269.75 | 125.80 | 125.80 | 98.19 | 3942.19 | 3788.05 | 25.58 | |
| 4600.00 | 4319.18 | 0.00 | 0.00 | 4363.18 | 128.64 | 128.64 | 98.67 | 3947.77 | 3790.16 | 25.05 | |
| 4700.00 | 4412.61 | 0.00 | 0.00 | 4456.61 | 131.47 | 131.47 | 99.15 | 3953.67 | 3792.60 | 24.55 | |
| 4800.00 | 4506.04 | 0.00 | 0.00 | 4550.04 | 134.31 | 134.31 | 99.63 | 3959.89 | 3795.37 | 24.07 | |
| 4900.00 | 4599.47 | 0.00 | 0.00 | 4643.47 | 137.15 | 137.15 | 100.10 | 3966.41 | 3798.47 | 23.62 | |
| 5000.00 | 4692.91 | 0.00 | 0.00 | 4736.91 | 139.99 | 139.99 | 100.58 | 3973.24 | 3801.72 | 23.17 | |
| 5100.00 | 4786.34 | 0.00 | 0.00 | 4830.34 | 142.82 | 142.82 | 101.05 | 3980.38 | 3805.25 | 22.73 | |
| 5200.00 | 4879.77 | 0.00 | 0.00 | 4923.77 | 145.66 | 145.66 | 101.52 | 3987.82 | 3809.08 | 22.31 | |
| 5300.00 | 4973.20 | 0.00 | 0.00 | 5017.20 | 148.50 | 148.50 | 101.99 | 3995.57 | 3813.23 | 21.91 | |
| 5400.00 | 5066.63 | 0.00 | 0.00 | 5110.63 | 151.34 | 151.34 | 102.46 | 4003.62 | 3817.69 | 21.53 | |
| 5500.00 | 5160.06 | 0.00 | 0.00 | 5204.06 | 154.17 | 154.17 | 102.92 | 4011.97 | 3822.47 | 21.17 | |
| 5600.00 | 5253.50 | 0.00 | 0.00 | 5297.50 | 157.01 | 157.01 | 103.39 | 4020.62 | 3827.55 | 20.82 | |
| 5700.00 | 5346.93 | 0.00 | 0.00 | 5390.93 | 159.85 | 159.85 | 103.85 | 4029.57 | 3832.95 | 20.49 | |
| 5800.00 | 5440.36 | 0.00 | 0.00 | 5484.36 | 162.69 | 162.69 | 104.31 | 4038.81 | 3838.66 | 20.18 | |
| 5900.00 | 5533.79 | 0.00 | 0.00 | 5577.79 | 165.52 | 165.52 | 104.77 | 4048.35 | 3844.68 | 19.88 | |
| 6000.00 | 5627.22 | 0.00 | 0.00 | 5671.22 | 168.36 | 168.36 | 105.23 | 4058.17 | 3851.01 | 19.59 | |
| 6100.00 | 5720.65 | 0.00 | 0.00 | 5764.65 | 171.20 | 171.20 | 105.68 | 4068.29 | 3857.64 | 19.31 | |
| 6200.00 | 5814.09 | 0.00 | 0.00 | 5858.09 | 174.04 | 174.04 | 106.13 | 4078.69 | 3864.57 | 19.05 | |
| 6300.00 | 5907.52 | 0.00 | 0.00 | 5951.52 | 176.87 | 176.87 | 106.59 | 4089.37 | 3871.81 | 18.80 | |
| 6400.00 | 6000.95 | 0.00 | 0.00 | 6044.95 | 179.71 | 179.71 | 107.03 | 4100.34 | 3879.35 | 18.55 | |
| 6500.00 | 6094.38 | 0.00 | 0.00 | 6138.38 | 182.55 | 182.55 | 107.48 | 4111.58 | 3887.19 | 18.32 | |
| 6600.00 | 6187.81 | 0.00 | 0.00 | 6231.81 | 185.39 | 185.39 | 107.93 | 4123.11 | 3895.32 | 18.10 | |
| 6700.00 | 6281.98 | 0.00 | 0.00 | 6325.98 | 188.25 | 188.25 | 90.72 | 4130.03 | 3898.95 | 17.87 | |
| 6800.00 | 6377.13 | 0.00 | 0.00 | 6421.13 | 191.13 | 191.13 | 66.45 | 4123.75 | 3889.51 | 17.60 | |
| 6900.00 | 6471.44 | 0.00 | 0.00 | 6515.44 | 194.00 | 194.00 | 45.48 | 4104.16 | 3866.86 | 17.29 | |
| 7000.00 | 6563.08 | 0.00 | 0.00 | 6607.08 | 196.78 | 196.78 | 31.03 | 4071.58 | 3831.36 | 16.95 | |
| 7100.00 | 6650.25 | 0.00 | 0.00 | 6694.25 | 199.43 | 199.43 | 21.42 | 4026.58 | 3783.59 | 16.57 | |
| 7200.00 | 6731.27 | 0.00 | 0.00 | 6775.27 | 201.89 | 201.89 | 14.53 | 3969.97 | 3724.35 | 16.16 | |
| 7300.00 | 6804.56 | 0.00 | 0.00 | 6848.56 | 204.11 | 204.11 | 8.92 | 3902.81 | 3654.86 | 15.74 | |
| 7400.00 | 6868.68 | 0.00 | 0.00 | 6912.68 | 206.06 | 206.06 | 3.53 | 3826.37 | 3576.42 | 15.31 | |
| 7500.00 | 6922.40 | 0.00 | 0.00 | 6966.40 | 207.69 | 207.69 | 357.20 | 3742.12 | 3490.55 | 14.88 | |
| 7600.00 | 6964.67 | 0.00 | 0.00 | 7008.67 | 208.98 | 208.98 | 348.01 | 3651.70 | 3398.92 | 14.45 | |
| 7700.00 | 6994.66 | 0.00 | 0.00 | 7038.66 | 209.89 | 209.89 | 331.72 | 3556.89 | 3303.32 | 14.03 | |
| 7800.00 | 7011.79 | 0.00 | 0.00 | 7055.79 | 210.41 | 210.41 | 300.92 | 3459.57 | 3205.68 | 13.63 | |
| 7900.00 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 3361.67 | 3107.72 | 13.24 | |
| 8000.00 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 3264.03 | 3010.14 | 12.86 | |
| 8100.00 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 3166.54 | 2912.71 | 12.48 | |
| 8200.00 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 3069.21 | 2815.44 | 12.09 | |
| 8300.00 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 2972.06 | 2718.34 | 11.71 | |
| 8400.00 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 2875.10 | 2621.42 | 11.33 | |
| 8500.00 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 2778.36 | 2524.72 | 10.95 | |
| 8600.00 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 2681.85 | 2428.29 | 10.58 | |
| 8700.00 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 2585.61 | 2332.13 | 10.20 | |
| 8800.00 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 2489.67 | 2236.27 | 9.82 | |
| 8900.00 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 2394.06 | 2140.88 | 9.46 | |
| 9000.00 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 2298.83 | 2045.66 | 9.08 | |
| 9100.00 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 2204.01 | 1950.95 | 8.71 | |
| 9200.00 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 2109.68 | 1856.76 | 8.34 | |
| 9300.00 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 2015.89 | 1762.98 | 7.97 | |

5D Anti-Collision Report

| Secondary Well: Von Trotha Bros Inc #1 (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 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 1922.73 | 1669.83 | 7.60 | |
| 9500.00 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 1830.29 | 1576.80 | 7.22 | |
| 9600.00 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 1738.68 | 1484.52 | 6.84 | |
| 9700.00 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 1648.06 | 1393.06 | 6.46 | |
| 9800.00 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 1558.58 | 1302.57 | 6.09 | |
| 9900.00 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 1470.45 | 1213.50 | 5.72 | |
| 10000.00 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 1383.94 | 1125.84 | 5.36 | |
| 10100.00 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 1299.37 | 1039.16 | 4.99 | |
| 10200.00 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 1217.14 | 954.19 | 4.63 | |
| 10300.00 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 1137.77 | 871.73 | 4.28 | |
| 10400.00 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 1061.88 | 792.85 | 3.95 | |
| 10500.00 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 990.28 | 715.87 | 3.61 | |
| 10600.00 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 923.97 | 644.91 | 3.31 | |
| 10700.00 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 864.17 | 578.42 | 3.02 | |
| 10800.00 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 812.32 | 520.69 | 2.79 | |
| 10900.00 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 770.02 | 470.71 | 2.57 | |
| 11000.00 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 738.92 | 432.71 | 2.41 | SF(Lo) |
| 11100.00 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 720.46 | 408.87 | 2.31 | SF(Lo) |
| 11200.00 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 715.64 | 399.25 | 2.26 | SF(Lo) |
| 11300.00 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 724.71 | 404.84 | 2.27 | SF(Lo) |
| 11400.00 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 747.18 | 426.14 | 2.33 | SF(Lo) |
| 11500.00 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 781.89 | 461.86 | 2.44 | SF(Lo) |
| 11600.00 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 827.29 | 508.73 | 2.60 | |
| 11700.00 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 881.75 | 564.85 | 2.78 | |
| 11800.00 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 943.69 | 629.70 | 3.01 | |
| 11900.00 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 1011.74 | 700.23 | 3.25 | |
| 12000.00 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 1084.75 | 776.12 | 3.51 | |
| 12100.00 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 1161.79 | 856.73 | 3.81 | |
| 12200.00 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 1242.11 | 939.08 | 4.10 | |
| 12300.00 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 1325.10 | 1024.14 | 4.40 | |
| 12400.00 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 1410.31 | 1111.63 | 4.72 | |
| 12500.00 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 1497.34 | 1201.06 | 5.05 | |
| 12600.00 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 1585.91 | 1291.28 | 5.38 | |
| 12700.00 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 1675.76 | 1382.54 | 5.71 | |
| 12800.00 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 1766.71 | 1474.93 | 6.06 | |
| 12900.00 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 1858.58 | 1568.26 | 6.40 | |
| 13000.00 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 1951.25 | 1662.36 | 6.75 | |
| 13100.00 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 2044.62 | 1756.93 | 7.11 | |
| 13200.00 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 2138.58 | 1852.07 | 7.46 | |
| 13300.00 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 2233.07 | 1947.71 | 7.83 | |
| 13400.00 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 2328.02 | 2043.69 | 8.19 | |
| 13500.00 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 2423.37 | 2139.65 | 8.54 | |
| 13600.00 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 2519.09 | 2235.96 | 8.90 | |
| 13700.00 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 2615.12 | 2332.59 | 9.26 | |
| 13800.00 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 2711.45 | 2429.49 | 9.62 | |
| 13900.00 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 2808.03 | 2526.63 | 9.98 | |
| 14000.00 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 2904.84 | 2623.98 | 10.34 | |
| 14100.00 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 3001.86 | 2721.53 | 10.71 | |
| 14200.00 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 3099.07 | 2819.25 | 11.08 | |
| 14300.00 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 3196.45 | 2917.13 | 11.44 | |
| 14400.00 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 3293.99 | 3015.14 | 11.81 | |
| 14500.00 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 3391.67 | 3113.28 | 12.18 | |
| 14600.00 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 3489.48 | 3211.54 | 12.55 | |
| 14700.00 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 3587.42 | 3309.90 | 12.93 | |
| 14800.00 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 3685.46 | 3408.36 | 13.30 | |
| 14900.00 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 3783.61 | 3506.90 | 13.67 | |
| 15000.00 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 3881.85 | 3605.52 | 14.05 | |
| 15100.00 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 3980.18 | 3704.16 | 14.42 | |

5D Anti-Collision Report

| Secondary Well: Von Trotha Bros Inc #1 (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 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 4078.59 | 3802.87 | 14.79 | |
| 15300.00 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 4177.08 | 3901.65 | 15.17 | |
| 15400.00 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 4275.64 | 4000.48 | 15.54 | |
| 15500.00 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 4374.26 | 4099.38 | 15.91 | |
| 15600.00 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 4472.94 | 4198.32 | 16.29 | |
| 15700.00 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 4571.68 | 4297.32 | 16.66 | |
| 15768.80 | 7016.00 | 0.00 | 0.00 | 7060.00 | 210.54 | 210.54 | 270.00 | 4639.64 | 4365.45 | 16.92 | |

| Secondary Well: Hall 31-11 (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 | 42.00 | 0.00 | 0.00 | 224.31 | 3827.84 | 3827.11 | 5257.34 | |
| 100.00 | 58.00 | 0.00 | 0.00 | 100.00 | 0.88 | 0.88 | 224.31 | 3827.61 | 3825.89 | 2231.09 | |
| 200.00 | 158.00 | 0.00 | 0.00 | 200.00 | 2.40 | 2.40 | 224.31 | 3827.61 | 3824.16 | 1108.61 | |
| 300.00 | 258.00 | 0.00 | 0.00 | 300.00 | 5.30 | 5.30 | 224.31 | 3827.61 | 3821.04 | 582.26 | |
| 400.00 | 357.98 | 0.00 | 0.00 | 399.98 | 8.34 | 8.34 | 80.22 | 3827.31 | 3817.51 | 390.38 | |
| 500.00 | 457.84 | 0.00 | 0.00 | 499.84 | 11.37 | 11.37 | 80.32 | 3826.43 | 3813.57 | 297.61 | |
| 600.00 | 557.45 | 0.00 | 0.00 | 599.45 | 14.40 | 14.40 | 80.48 | 3824.97 | 3808.86 | 237.52 | |
| 700.00 | 656.70 | 0.00 | 0.00 | 698.70 | 17.41 | 17.41 | 80.69 | 3822.96 | 3803.58 | 197.28 | |
| 800.00 | 755.47 | 0.00 | 0.00 | 797.47 | 20.41 | 20.41 | 80.97 | 3820.44 | 3797.76 | 168.45 | |
| 900.00 | 853.62 | 0.00 | 0.00 | 895.62 | 23.39 | 23.39 | 81.31 | 3817.44 | 3791.41 | 146.65 | |
| 1000.00 | 951.06 | 0.00 | 0.00 | 993.06 | 26.35 | 26.35 | 81.70 | 3814.04 | 3784.61 | 129.61 | |
| 1100.00 | 1047.64 | 0.00 | 0.00 | 1089.64 | 29.28 | 29.28 | 82.15 | 3810.28 | 3777.42 | 115.97 | |
| 1200.00 | 1143.27 | 0.00 | 0.00 | 1185.27 | 32.19 | 32.19 | 82.65 | 3806.24 | 3769.91 | 104.78 | |
| 1300.00 | 1237.82 | 0.00 | 0.00 | 1279.82 | 35.06 | 35.06 | 83.19 | 3802.00 | 3762.15 | 95.42 | |
| 1400.00 | 1331.37 | 0.00 | 0.00 | 1373.37 | 37.90 | 37.90 | 83.73 | 3797.71 | 3754.31 | 87.51 | |
| 1500.00 | 1424.80 | 0.00 | 0.00 | 1466.80 | 40.74 | 40.74 | 84.23 | 3793.70 | 3746.74 | 80.79 | |
| 1600.00 | 1518.23 | 0.00 | 0.00 | 1560.23 | 43.58 | 43.58 | 84.73 | 3790.03 | 3739.50 | 75.00 | |
| 1700.00 | 1611.66 | 0.00 | 0.00 | 1653.66 | 46.41 | 46.41 | 85.23 | 3786.70 | 3732.59 | 69.98 | |
| 1800.00 | 1705.09 | 0.00 | 0.00 | 1747.09 | 49.25 | 49.25 | 85.73 | 3783.69 | 3726.00 | 65.59 | |
| 1900.00 | 1798.52 | 0.00 | 0.00 | 1840.52 | 52.09 | 52.09 | 86.24 | 3781.02 | 3719.76 | 61.72 | |
| 2000.00 | 1891.96 | 0.00 | 0.00 | 1933.96 | 54.93 | 54.93 | 86.74 | 3778.68 | 3713.84 | 58.28 | |
| 2100.00 | 1985.39 | 0.00 | 0.00 | 2027.39 | 57.76 | 57.76 | 87.24 | 3776.68 | 3708.27 | 55.20 | |
| 2200.00 | 2078.82 | 0.00 | 0.00 | 2120.82 | 60.60 | 60.60 | 87.75 | 3775.02 | 3703.03 | 52.44 | |
| 2300.00 | 2172.25 | 0.00 | 0.00 | 2214.25 | 63.44 | 63.44 | 88.25 | 3773.69 | 3698.14 | 49.95 | |
| 2400.00 | 2265.68 | 0.00 | 0.00 | 2307.68 | 66.28 | 66.28 | 88.76 | 3772.69 | 3693.59 | 47.70 | |
| 2500.00 | 2359.11 | 0.00 | 0.00 | 2401.11 | 69.11 | 69.11 | 89.27 | 3772.03 | 3689.39 | 45.64 | |
| 2600.00 | 2452.55 | 0.00 | 0.00 | 2494.55 | 71.95 | 71.95 | 89.77 | 3771.71 | 3685.53 | 43.76 | |
| 2700.00 | 2545.98 | 0.00 | 0.00 | 2587.98 | 74.79 | 74.79 | 90.28 | 3771.73 | 3682.02 | 42.04 | |
| 2800.00 | 2639.41 | 0.00 | 0.00 | 2681.41 | 77.62 | 77.62 | 90.78 | 3772.08 | 3678.86 | 40.46 | |
| 2900.00 | 2732.84 | 0.00 | 0.00 | 2774.84 | 80.46 | 80.46 | 91.29 | 3772.77 | 3675.92 | 38.96 | |
| 3000.00 | 2826.27 | 0.00 | 0.00 | 2868.27 | 83.30 | 83.30 | 91.79 | 3773.80 | 3673.32 | 37.56 | |
| 3100.00 | 2919.70 | 0.00 | 0.00 | 2961.70 | 86.14 | 86.14 | 92.30 | 3775.16 | 3671.06 | 36.26 | |
| 3200.00 | 3013.14 | 0.00 | 0.00 | 3055.14 | 88.97 | 88.97 | 92.80 | 3776.86 | 3669.14 | 35.06 | |
| 3300.00 | 3106.57 | 0.00 | 0.00 | 3148.57 | 91.81 | 91.81 | 93.31 | 3778.89 | 3667.56 | 33.94 | |
| 3400.00 | 3200.00 | 0.00 | 0.00 | 3242.00 | 94.65 | 94.65 | 93.81 | 3781.26 | 3666.33 | 32.90 | |
| 3500.00 | 3293.43 | 0.00 | 0.00 | 3335.43 | 97.49 | 97.49 | 94.32 | 3783.97 | 3665.43 | 31.92 | |
| 3600.00 | 3386.86 | 0.00 | 0.00 | 3428.86 | 100.32 | 100.32 | 94.82 | 3787.00 | 3664.89 | 31.01 | |
| 3700.00 | 3480.29 | 0.00 | 0.00 | 3522.29 | 103.16 | 103.16 | 95.32 | 3790.37 | 3664.68 | 30.16 | |
| 3800.00 | 3573.73 | 0.00 | 0.00 | 3615.73 | 106.00 | 106.00 | 95.82 | 3794.07 | 3664.82 | 29.35 | |
| 3900.00 | 3667.16 | 0.00 | 0.00 | 3709.16 | 108.84 | 108.84 | 96.32 | 3798.11 | 3665.31 | 28.60 | |
| 4000.00 | 3760.59 | 0.00 | 0.00 | 3802.59 | 111.67 | 111.67 | 96.82 | 3802.47 | 3666.13 | 27.89 | |
| 4100.00 | 3854.02 | 0.00 | 0.00 | 3896.02 | 114.51 | 114.51 | 97.32 | 3807.16 | 3667.30 | 27.22 | |
| 4200.00 | 3947.45 | 0.00 | 0.00 | 3989.45 | 117.35 | 117.35 | 97.82 | 3812.18 | 3668.82 | 26.59 | |
| 4300.00 | 4040.88 | 0.00 | 0.00 | 4082.88 | 120.19 | 120.19 | 98.31 | 3817.52 | 3670.67 | 26.00 | |
| 4400.00 | 4134.32 | 0.00 | 0.00 | 4176.32 | 123.02 | 123.02 | 98.81 | 3823.19 | 3672.87 | 25.43 | |
| 4500.00 | 4227.75 | 0.00 | 0.00 | 4269.75 | 125.86 | 125.86 | 99.30 | 3829.18 | 3675.41 | 24.90 | |
| 4600.00 | 4321.18 | 0.00 | 0.00 | 4363.18 | 128.70 | 128.70 | 99.79 | 3835.50 | 3678.28 | 24.40 | |

5D Anti-Collision Report

| Secondary Well: Hall 31-11 (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 |
| 4700.00 | 4414.61 | 0.00 | 0.00 | 4456.61 | 131.54 | 131.54 | 100.28 | 3842.13 | 3681.46 | 23.91 | |
| 4800.00 | 4508.04 | 0.00 | 0.00 | 4550.04 | 134.37 | 134.37 | 100.77 | 3849.09 | 3684.80 | 23.43 | |
| 4900.00 | 4601.47 | 0.00 | 0.00 | 4643.47 | 137.21 | 137.21 | 101.26 | 3856.36 | 3688.46 | 22.97 | |
| 5000.00 | 4694.91 | 0.00 | 0.00 | 4736.91 | 140.05 | 140.05 | 101.75 | 3863.95 | 3692.44 | 22.53 | |
| 5100.00 | 4788.34 | 0.00 | 0.00 | 4830.34 | 142.88 | 142.88 | 102.23 | 3871.84 | 3696.74 | 22.11 | |
| 5200.00 | 4881.77 | 0.00 | 0.00 | 4923.77 | 145.72 | 145.72 | 102.71 | 3880.06 | 3701.37 | 21.71 | |
| 5300.00 | 4975.20 | 0.00 | 0.00 | 5017.20 | 148.56 | 148.56 | 103.19 | 3888.58 | 3706.32 | 21.34 | |
| 5400.00 | 5068.63 | 0.00 | 0.00 | 5110.63 | 151.40 | 151.40 | 103.67 | 3897.40 | 3711.59 | 20.97 | |
| 5500.00 | 5162.06 | 0.00 | 0.00 | 5204.06 | 154.23 | 154.23 | 104.15 | 3906.54 | 3717.19 | 20.63 | |
| 5600.00 | 5255.50 | 0.00 | 0.00 | 5297.50 | 157.07 | 157.07 | 104.62 | 3915.97 | 3723.10 | 20.30 | |
| 5700.00 | 5348.93 | 0.00 | 0.00 | 5390.93 | 159.91 | 159.91 | 105.10 | 3925.71 | 3729.33 | 19.99 | |
| 5800.00 | 5442.36 | 0.00 | 0.00 | 5484.36 | 162.75 | 162.75 | 105.57 | 3935.74 | 3735.88 | 19.69 | |
| 5900.00 | 5535.79 | 0.00 | 0.00 | 5577.79 | 165.58 | 165.58 | 106.03 | 3946.08 | 3742.74 | 19.41 | |
| 6000.00 | 5629.22 | 0.00 | 0.00 | 5671.22 | 168.42 | 168.42 | 106.50 | 3956.70 | 3749.91 | 19.13 | |
| 6100.00 | 5722.65 | 0.00 | 0.00 | 5764.65 | 171.26 | 171.26 | 106.96 | 3967.62 | 3757.40 | 18.87 | |
| 6200.00 | 5816.09 | 0.00 | 0.00 | 5858.09 | 174.10 | 174.10 | 107.43 | 3978.83 | 3765.19 | 18.62 | |
| 6300.00 | 5909.52 | 0.00 | 0.00 | 5951.52 | 176.93 | 176.93 | 107.89 | 3990.32 | 3773.29 | 18.39 | |
| 6400.00 | 6002.95 | 0.00 | 0.00 | 6044.95 | 179.77 | 179.77 | 108.34 | 4002.10 | 3781.69 | 18.16 | |
| 6500.00 | 6096.38 | 0.00 | 0.00 | 6138.38 | 182.61 | 182.61 | 108.80 | 4014.16 | 3790.40 | 17.94 | |
| 6600.00 | 6189.81 | 0.00 | 0.00 | 6231.81 | 185.45 | 185.45 | 109.25 | 4026.50 | 3799.41 | 17.73 | |
| 6700.00 | 6283.98 | 0.00 | 0.00 | 6325.98 | 188.31 | 188.31 | 92.05 | 4034.22 | 3803.85 | 17.51 | |
| 6800.00 | 6379.13 | 0.00 | 0.00 | 6421.13 | 191.20 | 191.20 | 67.82 | 4028.68 | 3794.95 | 17.24 | |
| 6900.00 | 6473.44 | 0.00 | 0.00 | 6515.44 | 194.06 | 194.06 | 46.91 | 4009.76 | 3772.77 | 16.92 | |
| 7000.00 | 6565.08 | 0.00 | 0.00 | 6607.08 | 196.84 | 196.84 | 32.56 | 3977.76 | 3737.69 | 16.57 | |
| 7100.00 | 6652.25 | 0.00 | 0.00 | 6694.25 | 199.49 | 199.49 | 23.09 | 3933.26 | 3690.30 | 16.19 | |
| 7200.00 | 6733.27 | 0.00 | 0.00 | 6775.27 | 201.95 | 201.95 | 16.41 | 3877.05 | 3631.46 | 15.79 | |
| 7300.00 | 6806.56 | 0.00 | 0.00 | 6848.56 | 204.18 | 204.18 | 11.11 | 3810.18 | 3562.25 | 15.37 | |
| 7400.00 | 6870.68 | 0.00 | 0.00 | 6912.68 | 206.12 | 206.12 | 6.16 | 3733.92 | 3483.98 | 14.94 | |
| 7500.00 | 6924.40 | 0.00 | 0.00 | 6966.40 | 207.75 | 207.75 | 0.52 | 3649.71 | 3398.12 | 14.51 | |
| 7600.00 | 6966.67 | 0.00 | 0.00 | 7008.67 | 209.04 | 209.04 | 352.41 | 3559.20 | 3306.36 | 14.08 | |
| 7700.00 | 6996.66 | 0.00 | 0.00 | 7038.66 | 209.95 | 209.95 | 337.59 | 3464.14 | 3210.47 | 13.66 | |
| 7800.00 | 7013.79 | 0.00 | 0.00 | 7055.79 | 210.47 | 210.47 | 305.97 | 3366.42 | 3112.37 | 13.25 | |
| 7900.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 3267.98 | 3013.99 | 12.87 | |
| 8000.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 3169.71 | 2915.94 | 12.49 | |
| 8100.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 3071.56 | 2818.02 | 12.11 | |
| 8200.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 2973.53 | 2720.24 | 11.74 | |
| 8300.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 2875.63 | 2622.59 | 11.36 | |
| 8400.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 2777.89 | 2524.85 | 10.98 | |
| 8500.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 2680.31 | 2427.32 | 10.59 | |
| 8600.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 2582.92 | 2329.91 | 10.21 | |
| 8700.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 2485.73 | 2232.73 | 9.82 | |
| 8800.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 2388.78 | 2135.82 | 9.44 | |
| 8900.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 2292.09 | 2039.13 | 9.06 | |
| 9000.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 2195.69 | 1942.71 | 8.68 | |
| 9100.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 2099.64 | 1846.66 | 8.30 | |
| 9200.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 2003.96 | 1751.00 | 7.92 | |
| 9300.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 1908.74 | 1655.81 | 7.55 | |
| 9400.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 1814.02 | 1561.18 | 7.17 | |
| 9500.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 1719.90 | 1466.96 | 6.80 | |
| 9600.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 1626.49 | 1373.46 | 6.43 | |
| 9700.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 1533.91 | 1280.29 | 6.05 | |
| 9800.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 1442.31 | 1187.76 | 5.67 | |
| 9900.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 1351.91 | 1096.10 | 5.28 | |
| 10000.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 1262.96 | 1005.95 | 4.91 | |
| 10100.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 1175.78 | 917.34 | 4.55 | |
| 10200.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 1090.81 | 830.16 | 4.19 | |
| 10300.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 1008.60 | 744.53 | 3.82 | |
| 10400.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 929.87 | 662.31 | 3.48 | |

5D Anti-Collision Report

| Secondary Well: Hall 31-11 (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 |
| 10500.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 855.61 | 583.24 | 3.14 | |
| 10600.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 787.06 | 508.93 | 2.83 | |
| 10700.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 725.85 | 440.75 | 2.55 | |
| 10800.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 673.99 | 382.03 | 2.31 | SF(Lo) |
| 10900.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 633.77 | 333.49 | 2.11 | SF(Lo) |
| 11000.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 607.50 | 299.77 | 1.97 | SF(Lo) |
| 11100.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 597.04 | 283.53 | 1.90 | SF(Lo) |
| 11200.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 603.21 | 285.98 | 1.90 | SF(Lo) |
| 11300.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 625.51 | 307.43 | 1.97 | SF(Lo) |
| 11400.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 662.31 | 345.51 | 2.09 | SF(Lo) |
| 11500.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 711.38 | 397.43 | 2.27 | SF(Lo) |
| 11600.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 770.36 | 459.00 | 2.47 | SF(Lo) |
| 11700.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 837.17 | 529.24 | 2.72 | |
| 11800.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 910.09 | 605.60 | 2.99 | |
| 11900.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 987.75 | 687.10 | 3.29 | |
| 12000.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 1069.14 | 771.19 | 3.59 | |
| 12100.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 1153.45 | 858.10 | 3.91 | |
| 12200.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 1240.10 | 947.53 | 4.24 | |
| 12300.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 1328.63 | 1038.04 | 4.57 | |
| 12400.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 1418.68 | 1129.73 | 4.91 | |
| 12500.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 1509.99 | 1222.72 | 5.26 | |
| 12600.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 1602.33 | 1316.76 | 5.61 | |
| 12700.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 1695.54 | 1411.39 | 5.97 | |
| 12800.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 1789.48 | 1506.70 | 6.33 | |
| 12900.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 1884.05 | 1602.60 | 6.69 | |
| 13000.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 1979.15 | 1698.68 | 7.06 | |
| 13100.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 2074.72 | 1794.94 | 7.42 | |
| 13200.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 2170.68 | 1891.59 | 7.78 | |
| 13300.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 2266.99 | 1988.57 | 8.14 | |
| 13400.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 2363.61 | 2085.84 | 8.51 | |
| 13500.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 2460.50 | 2183.36 | 8.88 | |
| 13600.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 2557.63 | 2281.10 | 9.25 | |
| 13700.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 2654.97 | 2379.02 | 9.62 | |
| 13800.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 2752.50 | 2477.12 | 10.00 | |
| 13900.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 2850.20 | 2575.36 | 10.37 | |
| 14000.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 2948.06 | 2673.66 | 10.74 | |
| 14100.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 3046.05 | 2772.07 | 11.12 | |
| 14200.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 3144.18 | 2870.59 | 11.49 | |
| 14300.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 3242.41 | 2969.21 | 11.87 | |
| 14400.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 3340.76 | 3067.91 | 12.24 | |
| 14500.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 3439.19 | 3166.70 | 12.62 | |
| 14600.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 3537.72 | 3265.57 | 13.00 | |
| 14700.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 3636.32 | 3364.50 | 13.38 | |
| 14800.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 3735.00 | 3463.49 | 13.76 | |
| 14900.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 3833.75 | 3562.54 | 14.14 | |
| 15000.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 3932.56 | 3661.64 | 14.52 | |
| 15100.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 4031.43 | 3760.78 | 14.90 | |
| 15200.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 4130.36 | 3859.97 | 15.28 | |
| 15300.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 4229.33 | 3959.20 | 15.66 | |
| 15400.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 4328.35 | 4058.41 | 16.03 | |
| 15500.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 4427.42 | 4157.59 | 16.41 | |
| 15600.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 4526.53 | 4256.82 | 16.78 | |
| 15700.00 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 4625.67 | 4356.08 | 17.16 | |
| 15768.80 | 7018.00 | 0.00 | 0.00 | 7060.00 | 210.60 | 210.60 | 270.00 | 4693.90 | 4424.38 | 17.42 | |

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 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.06 | 220.05 | 219.31 | 300.07 | |
| 100.00 | 100.00 | 0.00 | 0.00 | 100.00 | 0.11 | 0.11 | 0.06 | 220.05 | 219.09 | 230.67 | |
| 200.00 | 200.00 | 0.00 | 0.00 | 200.00 | 0.34 | 0.34 | 0.06 | 220.05 | 218.64 | 156.78 | |
| 300.00 | 300.00 | 0.00 | 0.00 | 300.00 | 0.56 | 0.56 | 0.06 | 220.05 | 218.19 | 118.75 | |
| 400.00 | 399.98 | 0.00 | 0.00 | 399.98 | 0.79 | 0.79 | 215.69 | 221.46 | 219.18 | 97.15 | |
| 500.00 | 499.84 | 0.00 | 0.00 | 499.84 | 1.01 | 1.01 | 214.97 | 225.73 | 223.03 | 83.37 | |
| 600.00 | 599.45 | 0.00 | 0.00 | 599.45 | 1.24 | 1.24 | 213.82 | 232.93 | 229.78 | 73.86 | |
| 700.00 | 698.70 | 0.00 | 0.00 | 698.70 | 1.46 | 1.46 | 212.34 | 243.17 | 239.55 | 67.26 | |
| 800.00 | 797.47 | 0.00 | 0.00 | 797.47 | 1.68 | 1.68 | 210.61 | 256.56 | 252.47 | 62.71 | |
| 900.00 | 895.62 | 0.00 | 0.00 | 895.62 | 1.90 | 1.90 | 208.74 | 273.21 | 268.62 | 59.50 | |
| 1000.00 | 993.06 | 0.00 | 0.00 | 993.06 | 2.12 | 2.12 | 206.82 | 293.23 | 288.13 | 57.49 | |
| 1100.00 | 1089.64 | 0.00 | 0.00 | 1089.64 | 2.34 | 2.34 | 204.93 | 316.67 | 311.06 | 56.48 | |
| 1200.00 | 1185.27 | 0.00 | 0.00 | 1185.27 | 2.55 | 2.55 | 203.10 | 343.57 | 337.45 | 56.14 | |
| 1300.00 | 1279.82 | 0.00 | 0.00 | 1279.82 | 2.76 | 2.76 | 201.39 | 373.94 | 367.29 | 56.27 | |
| 1400.00 | 1373.37 | 0.00 | 0.00 | 1373.37 | 2.97 | 2.97 | 199.69 | 407.27 | 400.10 | 56.82 | |
| 1500.00 | 1466.80 | 0.00 | 0.00 | 1466.80 | 3.18 | 3.18 | 198.14 | 441.22 | 433.53 | 57.38 | |
| 1600.00 | 1560.23 | 0.00 | 0.00 | 1560.23 | 3.39 | 3.39 | 196.81 | 475.42 | 467.23 | 58.04 | |
| 1700.00 | 1653.66 | 0.00 | 0.00 | 1653.66 | 3.60 | 3.60 | 195.66 | 509.81 | 501.11 | 58.55 | |
| 1800.00 | 1747.09 | 0.00 | 0.00 | 1747.09 | 3.81 | 3.81 | 194.65 | 544.37 | 535.15 | 59.02 | |
| 1900.00 | 1842.15 | 0.84 | 78.00 | 1842.15 | 4.02 | 4.02 | 193.78 | 579.00 | 569.26 | 59.44 | |
| 2000.00 | 1939.95 | 2.80 | 78.00 | 1939.90 | 4.23 | 4.23 | 193.26 | 613.20 | 602.94 | 59.77 | |
| 2100.00 | 2038.46 | 4.77 | 78.00 | 2038.19 | 4.44 | 4.42 | 193.10 | 646.78 | 635.97 | 59.85 | |
| 2200.00 | 2137.45 | 6.75 | 78.00 | 2136.67 | 4.66 | 4.62 | 193.25 | 679.71 | 668.35 | 59.83 | |
| 2300.00 | 2236.68 | 8.73 | 78.00 | 2234.99 | 4.90 | 4.81 | 193.68 | 712.01 | 700.04 | 59.51 | |
| 2400.00 | 2335.91 | 10.72 | 78.00 | 2332.79 | 5.16 | 5.00 | 194.34 | 743.74 | 731.15 | 59.08 | |
| 2500.00 | 2434.92 | 12.70 | 78.00 | 2429.73 | 5.45 | 5.20 | 195.21 | 774.98 | 761.70 | 58.35 | |
| 2600.00 | 2533.46 | 14.67 | 78.00 | 2525.47 | 5.78 | 5.39 | 196.25 | 805.87 | 791.80 | 57.30 | |
| 2700.00 | 2631.30 | 16.63 | 78.00 | 2619.68 | 6.15 | 5.58 | 197.44 | 836.53 | 821.63 | 56.14 | |
| 2800.00 | 2725.91 | 17.19 | 78.00 | 2710.11 | 6.56 | 5.80 | 198.67 | 867.20 | 851.43 | 54.97 | |
| 2900.00 | 2819.43 | 17.19 | 78.00 | 2799.46 | 6.99 | 6.03 | 199.82 | 898.21 | 881.54 | 53.90 | |
| 3000.00 | 2912.96 | 17.19 | 78.00 | 2888.80 | 7.44 | 6.26 | 200.89 | 929.53 | 911.93 | 52.83 | |
| 3100.00 | 3006.48 | 17.19 | 78.00 | 2978.15 | 7.91 | 6.49 | 201.90 | 961.13 | 942.56 | 51.74 | |
| 3200.00 | 3100.01 | 17.19 | 78.00 | 3067.50 | 8.40 | 6.74 | 202.84 | 992.99 | 973.41 | 50.70 | |
| 3300.00 | 3193.53 | 17.19 | 78.00 | 3156.85 | 8.89 | 6.98 | 203.72 | 1025.09 | 1004.48 | 49.75 | |
| 3400.00 | 3287.06 | 17.19 | 78.00 | 3246.20 | 9.40 | 7.23 | 204.56 | 1057.39 | 1035.76 | 48.88 | |
| 3500.00 | 3380.58 | 17.19 | 78.00 | 3335.55 | 9.92 | 7.48 | 205.34 | 1089.89 | 1067.22 | 48.08 | |
| 3600.00 | 3474.11 | 17.19 | 78.00 | 3424.90 | 10.44 | 7.73 | 206.08 | 1122.56 | 1098.85 | 47.35 | |
| 3700.00 | 3567.63 | 17.19 | 78.00 | 3514.24 | 10.97 | 7.99 | 206.78 | 1155.39 | 1130.64 | 46.68 | |
| 3800.00 | 3661.15 | 17.19 | 78.00 | 3603.59 | 11.51 | 8.24 | 207.44 | 1188.37 | 1162.55 | 46.02 | |
| 3900.00 | 3754.68 | 17.19 | 78.00 | 3692.94 | 12.05 | 8.50 | 208.06 | 1221.48 | 1194.57 | 45.39 | |
| 4000.00 | 3848.20 | 17.19 | 78.00 | 3782.29 | 12.59 | 8.76 | 208.65 | 1254.72 | 1226.72 | 44.81 | |
| 4100.00 | 3941.73 | 17.19 | 78.00 | 3871.64 | 13.14 | 9.03 | 209.22 | 1288.08 | 1258.99 | 44.27 | |
| 4200.00 | 4035.25 | 17.19 | 78.00 | 3960.99 | 13.69 | 9.29 | 209.75 | 1321.54 | 1291.35 | 43.78 | |
| 4300.00 | 4128.78 | 17.19 | 78.00 | 4050.34 | 14.24 | 9.56 | 210.26 | 1355.10 | 1323.82 | 43.32 | |
| 4400.00 | 4222.30 | 17.19 | 78.00 | 4139.69 | 14.80 | 9.82 | 210.74 | 1388.75 | 1356.37 | 42.89 | |
| 4500.00 | 4315.83 | 17.19 | 78.00 | 4229.03 | 15.36 | 10.09 | 211.20 | 1422.49 | 1389.01 | 42.49 | |
| 4600.00 | 4409.35 | 17.19 | 78.00 | 4318.38 | 15.92 | 10.36 | 211.64 | 1456.30 | 1421.73 | 42.12 | |
| 4700.00 | 4502.88 | 17.19 | 78.00 | 4407.73 | 16.48 | 10.63 | 212.06 | 1490.19 | 1454.52 | 41.77 | |
| 4800.00 | 4596.40 | 17.19 | 78.00 | 4497.08 | 17.05 | 10.90 | 212.47 | 1524.15 | 1487.38 | 41.45 | |
| 4900.00 | 4689.93 | 17.19 | 78.00 | 4586.43 | 17.61 | 11.17 | 212.85 | 1558.17 | 1520.30 | 41.14 | |
| 5000.00 | 4783.45 | 17.19 | 78.00 | 4675.78 | 18.18 | 11.44 | 213.22 | 1592.25 | 1553.28 | 40.85 | |
| 5100.00 | 4876.97 | 17.19 | 78.00 | 4765.13 | 18.75 | 11.72 | 213.57 | 1626.39 | 1586.32 | 40.58 | |
| 5200.00 | 4970.50 | 17.19 | 78.00 | 4854.47 | 19.32 | 11.99 | 213.91 | 1660.58 | 1619.41 | 40.33 | |
| 5300.00 | 5064.02 | 17.19 | 78.00 | 4943.82 | 19.89 | 12.26 | 214.24 | 1694.82 | 1652.55 | 40.09 | |
| 5400.00 | 5157.55 | 17.19 | 78.00 | 5033.17 | 20.46 | 12.54 | 214.55 | 1729.11 | 1685.74 | 39.87 | |
| 5500.00 | 5251.07 | 17.19 | 78.00 | 5122.52 | 21.03 | 12.82 | 214.85 | 1763.44 | 1718.97 | 39.65 | |
| 5600.00 | 5344.60 | 17.19 | 78.00 | 5211.87 | 21.61 | 13.09 | 215.14 | 1797.81 | 1752.23 | 39.44 | |
| 5700.00 | 5438.12 | 17.19 | 78.00 | 5301.22 | 22.18 | 13.37 | 215.42 | 1832.23 | 1785.52 | 39.23 | |

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 |
| 5800.00 | 5531.65 | 17.19 | 78.00 | 5390.57 | 22.75 | 13.65 | 215.68 | 1866.68 | 1818.84 | 39.03 | |
| 5900.00 | 5625.17 | 17.19 | 78.00 | 5479.91 | 23.33 | 13.92 | 215.94 | 1901.16 | 1852.20 | 38.83 | |
| 6000.00 | 5718.70 | 17.19 | 78.00 | 5569.26 | 23.91 | 14.20 | 216.19 | 1935.68 | 1885.58 | 38.64 | |
| 6100.00 | 5812.22 | 17.19 | 78.00 | 5658.61 | 24.48 | 14.48 | 216.43 | 1970.22 | 1919.00 | 38.46 | |
| 6200.00 | 5905.75 | 17.19 | 78.00 | 5747.96 | 25.06 | 14.76 | 216.66 | 2004.80 | 1952.45 | 38.29 | |
| 6300.00 | 5999.27 | 17.19 | 78.00 | 5837.31 | 25.64 | 15.04 | 216.89 | 2039.41 | 1985.92 | 38.13 | |
| 6400.00 | 6092.80 | 17.19 | 78.00 | 5926.66 | 26.21 | 15.32 | 217.11 | 2074.04 | 2019.42 | 37.98 | |
| 6500.00 | 6186.32 | 17.19 | 78.00 | 6016.01 | 26.79 | 15.60 | 217.32 | 2108.70 | 2052.95 | 37.83 | |
| 6600.00 | 6279.84 | 17.19 | 78.00 | 6105.36 | 27.37 | 15.88 | 217.52 | 2143.38 | 2086.50 | 37.68 | |
| 6700.00 | 6372.62 | 17.19 | 78.00 | 6193.99 | 27.94 | 16.15 | 197.58 | 2178.56 | 2120.61 | 37.59 | |
| 6800.00 | 6475.64 | 10.98 | 72.63 | 6293.53 | 28.40 | 16.44 | 170.59 | 2214.66 | 2155.82 | 37.64 | |
| 6900.00 | 6586.87 | 3.24 | 29.39 | 6403.87 | 28.65 | 16.42 | 147.21 | 2250.64 | 2191.25 | 37.90 | |
| 7000.00 | 6703.40 | 8.06 | 286.63 | 6520.00 | 28.68 | 16.02 | 130.70 | 2285.75 | 2226.17 | 38.37 | |
| 7100.00 | 6825.92 | 17.59 | 275.56 | 6639.33 | 28.51 | 15.18 | 119.49 | 2319.24 | 2259.86 | 39.06 | |
| 7200.00 | 6954.80 | 27.82 | 272.09 | 6758.08 | 28.19 | 13.92 | 111.59 | 2350.36 | 2291.51 | 39.93 | |
| 7300.00 | 7089.93 | 38.58 | 270.33 | 6870.98 | 27.80 | 12.33 | 105.79 | 2378.38 | 2320.21 | 40.89 | |
| 7400.00 | 7230.42 | 49.80 | 269.21 | 6971.56 | 27.51 | 10.66 | 101.39 | 2402.61 | 2345.06 | 41.75 | |
| 7500.00 | 7374.50 | 61.30 | 268.39 | 7052.92 | 27.48 | 9.40 | 97.99 | 2422.46 | 2365.35 | 42.42 | |
| 7600.00 | 7519.64 | 72.90 | 267.74 | 7109.30 | 27.89 | 9.16 | 95.37 | 2437.49 | 2380.29 | 42.61 | |
| 7700.00 | 7662.96 | 84.35 | 267.16 | 7137.52 | 28.76 | 10.15 | 93.41 | 2447.41 | 2389.22 | 42.06 | |
| 7800.00 | 7782.71 | 90.00 | 266.89 | 7141.00 | 29.80 | 11.21 | 92.18 | 2452.31 | 2392.67 | 41.11 | |
| 7900.00 | 7882.54 | 90.00 | 266.89 | 7141.00 | 30.93 | 11.69 | 91.89 | 2453.38 | 2391.89 | 39.90 | |
| 8000.00 | 7982.54 | 90.00 | 266.89 | 7141.00 | 32.25 | 12.19 | 91.89 | 2453.23 | 2389.42 | 38.44 | |
| 8100.00 | 8082.54 | 90.00 | 266.89 | 7141.00 | 33.75 | 12.72 | 91.89 | 2453.09 | 2386.54 | 36.86 | |
| 8200.00 | 8182.54 | 90.00 | 266.89 | 7141.00 | 35.41 | 13.27 | 91.89 | 2452.94 | 2383.33 | 35.23 | |
| 8300.00 | 8282.54 | 90.00 | 266.89 | 7141.00 | 37.21 | 13.83 | 91.89 | 2452.80 | 2379.82 | 33.61 | |
| 8400.00 | 8382.54 | 90.00 | 266.89 | 7141.00 | 39.12 | 14.41 | 91.89 | 2452.66 | 2376.05 | 32.02 | |
| 8500.00 | 8482.54 | 90.00 | 266.89 | 7141.00 | 41.14 | 15.01 | 91.89 | 2452.51 | 2372.02 | 30.47 | |
| 8600.00 | 8582.54 | 90.00 | 266.89 | 7141.00 | 43.24 | 15.61 | 91.89 | 2452.37 | 2367.84 | 29.01 | |
| 8700.00 | 8682.54 | 90.00 | 266.89 | 7141.00 | 45.42 | 16.23 | 91.89 | 2452.22 | 2363.49 | 27.64 | |
| 8800.00 | 8782.54 | 90.00 | 266.89 | 7141.00 | 47.66 | 16.85 | 91.89 | 2452.08 | 2358.95 | 26.33 | |
| 8900.00 | 8882.54 | 90.00 | 266.89 | 7141.00 | 49.96 | 17.49 | 91.89 | 2451.93 | 2354.41 | 25.14 | |
| 9000.00 | 8982.54 | 90.00 | 266.89 | 7141.00 | 52.31 | 18.13 | 91.89 | 2451.79 | 2349.66 | 24.01 | |
| 9100.00 | 9082.54 | 90.00 | 266.89 | 7141.00 | 54.70 | 18.77 | 91.89 | 2451.65 | 2344.79 | 22.94 | |
| 9200.00 | 9182.54 | 90.00 | 266.89 | 7141.00 | 57.13 | 19.43 | 91.89 | 2451.50 | 2339.86 | 21.96 | |
| 9300.00 | 9282.54 | 90.00 | 266.89 | 7141.00 | 59.59 | 20.09 | 91.89 | 2451.36 | 2334.86 | 21.04 | |
| 9400.00 | 9382.54 | 90.00 | 266.89 | 7141.00 | 62.08 | 20.75 | 91.89 | 2451.21 | 2329.82 | 20.19 | |
| 9500.00 | 9482.54 | 90.00 | 266.89 | 7141.00 | 64.59 | 21.42 | 91.89 | 2451.07 | 2324.72 | 19.40 | |
| 9600.00 | 9582.54 | 90.00 | 266.89 | 7141.00 | 67.13 | 22.09 | 91.89 | 2450.92 | 2319.57 | 18.66 | |
| 9700.00 | 9682.54 | 90.00 | 266.89 | 7141.00 | 69.69 | 22.77 | 91.89 | 2450.78 | 2314.39 | 17.97 | |
| 9800.00 | 9782.54 | 90.00 | 266.89 | 7141.00 | 72.26 | 23.45 | 91.89 | 2450.64 | 2309.17 | 17.32 | |
| 9900.00 | 9882.54 | 90.00 | 266.89 | 7141.00 | 74.85 | 24.13 | 91.89 | 2450.49 | 2303.90 | 16.72 | |
| 10000.00 | 9982.54 | 90.00 | 266.89 | 7141.00 | 77.46 | 24.82 | 91.89 | 2450.35 | 2298.56 | 16.14 | |
| 10100.00 | 10082.54 | 90.00 | 266.89 | 7141.00 | 80.08 | 25.51 | 91.89 | 2450.20 | 2293.19 | 15.61 | |
| 10200.00 | 10182.54 | 90.00 | 266.89 | 7141.00 | 82.71 | 26.20 | 91.89 | 2450.06 | 2287.80 | 15.10 | |
| 10300.00 | 10282.54 | 90.00 | 266.89 | 7141.00 | 85.35 | 26.89 | 91.89 | 2449.91 | 2282.39 | 14.62 | |
| 10400.00 | 10382.54 | 90.00 | 266.89 | 7141.00 | 88.00 | 27.59 | 91.89 | 2449.77 | 2276.95 | 14.18 | |
| 10500.00 | 10482.54 | 90.00 | 266.89 | 7141.00 | 90.66 | 28.29 | 91.89 | 2449.63 | 2271.50 | 13.75 | |
| 10600.00 | 10582.54 | 90.00 | 266.89 | 7141.00 | 93.33 | 28.99 | 91.90 | 2449.48 | 2266.03 | 13.35 | |
| 10700.00 | 10682.54 | 90.00 | 266.89 | 7141.00 | 96.00 | 29.69 | 91.90 | 2449.34 | 2260.54 | 12.97 | |
| 10800.00 | 10782.54 | 90.00 | 266.89 | 7141.00 | 98.69 | 30.39 | 91.90 | 2449.19 | 2255.04 | 12.61 | |
| 10900.00 | 10882.54 | 90.00 | 266.89 | 7141.00 | 101.38 | 31.09 | 91.90 | 2449.05 | 2249.53 | 12.27 | |
| 11000.00 | 10982.54 | 90.00 | 266.89 | 7141.00 | 104.07 | 31.80 | 91.90 | 2448.90 | 2244.00 | 11.95 | |
| 11100.00 | 11082.54 | 90.00 | 266.89 | 7141.00 | 106.77 | 32.50 | 91.90 | 2448.76 | 2238.47 | 11.64 | |
| 11200.00 | 11182.54 | 90.00 | 266.89 | 7141.00 | 109.47 | 33.21 | 91.90 | 2448.62 | 2232.92 | 11.35 | |
| 11300.00 | 11282.54 | 90.00 | 266.89 | 7141.00 | 112.18 | 33.92 | 91.90 | 2448.47 | 2227.37 | 11.07 | |
| 11400.00 | 11382.54 | 90.00 | 266.89 | 7141.00 | 114.90 | 34.63 | 91.90 | 2448.33 | 2221.80 | 10.81 | |
| 11500.00 | 11482.54 | 90.00 | 266.89 | 7141.00 | 117.61 | 35.34 | 91.90 | 2448.18 | 2216.23 | 10.55 | |

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 |
| 11600.00 | 11582.54 | 90.00 | 266.89 | 7141.00 | 120.34 | 36.05 | 91.90 | 2448.04 | 2210.65 | 10.31 | |
| 11700.00 | 11682.54 | 90.00 | 266.89 | 7141.00 | 123.06 | 36.76 | 91.90 | 2447.89 | 2205.06 | 10.08 | |
| 11800.00 | 11782.54 | 90.00 | 266.89 | 7141.00 | 125.79 | 37.48 | 91.90 | 2447.75 | 2199.47 | 9.86 | |
| 11900.00 | 11882.54 | 90.00 | 266.89 | 7141.00 | 128.52 | 38.19 | 91.90 | 2447.61 | 2193.87 | 9.65 | |
| 12000.00 | 11982.54 | 90.00 | 266.89 | 7141.00 | 131.25 | 38.91 | 91.90 | 2447.46 | 2188.26 | 9.44 | |
| 12100.00 | 12082.54 | 90.00 | 266.89 | 7141.00 | 133.99 | 39.62 | 91.90 | 2447.32 | 2182.65 | 9.25 | |
| 12200.00 | 12182.54 | 90.00 | 266.89 | 7141.00 | 136.73 | 40.34 | 91.90 | 2447.17 | 2177.04 | 9.06 | |
| 12300.00 | 12282.54 | 90.00 | 266.89 | 7141.00 | 139.47 | 41.05 | 91.90 | 2447.03 | 2171.42 | 8.88 | |
| 12400.00 | 12382.54 | 90.00 | 266.89 | 7141.00 | 142.22 | 41.77 | 91.90 | 2446.88 | 2165.79 | 8.70 | |
| 12500.00 | 12482.54 | 90.00 | 266.89 | 7141.00 | 144.96 | 42.49 | 91.90 | 2446.74 | 2160.16 | 8.54 | |
| 12600.00 | 12582.54 | 90.00 | 266.89 | 7141.00 | 147.71 | 43.21 | 91.90 | 2446.60 | 2154.53 | 8.38 | |
| 12700.00 | 12682.54 | 90.00 | 266.89 | 7141.00 | 150.46 | 43.92 | 91.90 | 2446.45 | 2148.89 | 8.22 | |
| 12800.00 | 12782.54 | 90.00 | 266.89 | 7141.00 | 153.21 | 44.64 | 91.90 | 2446.31 | 2143.25 | 8.07 | |
| 12900.00 | 12882.54 | 90.00 | 266.89 | 7141.00 | 155.96 | 45.36 | 91.90 | 2446.16 | 2137.60 | 7.93 | |
| 13000.00 | 12982.54 | 90.00 | 266.89 | 7141.00 | 158.72 | 46.08 | 91.90 | 2446.02 | 2131.95 | 7.79 | |
| 13100.00 | 13082.54 | 90.00 | 266.89 | 7141.00 | 161.48 | 46.80 | 91.90 | 2445.87 | 2126.30 | 7.65 | |
| 13200.00 | 13182.54 | 90.00 | 266.89 | 7141.00 | 164.23 | 47.53 | 91.90 | 2445.73 | 2120.65 | 7.52 | |
| 13300.00 | 13282.54 | 90.00 | 266.89 | 7141.00 | 166.99 | 48.25 | 91.90 | 2445.59 | 2114.99 | 7.40 | |
| 13400.00 | 13382.54 | 90.00 | 266.89 | 7141.00 | 169.75 | 48.97 | 91.90 | 2445.44 | 2109.33 | 7.28 | |
| 13500.00 | 13482.54 | 90.00 | 266.89 | 7141.00 | 172.52 | 49.69 | 91.90 | 2445.30 | 2103.67 | 7.16 | |
| 13600.00 | 13582.54 | 90.00 | 266.89 | 7141.00 | 175.28 | 50.41 | 91.90 | 2445.15 | 2098.00 | 7.04 | |
| 13700.00 | 13682.54 | 90.00 | 266.89 | 7141.00 | 178.04 | 51.14 | 91.90 | 2445.01 | 2092.34 | 6.93 | |
| 13800.00 | 13782.54 | 90.00 | 266.89 | 7141.00 | 180.81 | 51.86 | 91.90 | 2444.86 | 2086.67 | 6.83 | |
| 13900.00 | 13882.54 | 90.00 | 266.89 | 7141.00 | 183.57 | 52.58 | 91.90 | 2444.72 | 2081.00 | 6.72 | |
| 14000.00 | 13982.54 | 90.00 | 266.89 | 7141.00 | 186.34 | 53.30 | 91.90 | 2444.58 | 2075.32 | 6.62 | |
| 14100.00 | 14082.54 | 90.00 | 266.89 | 7141.00 | 189.11 | 54.03 | 91.90 | 2444.43 | 2069.65 | 6.52 | |
| 14200.00 | 14182.54 | 90.00 | 266.89 | 7141.00 | 191.88 | 54.75 | 91.90 | 2444.29 | 2063.97 | 6.43 | |
| 14300.00 | 14282.54 | 90.00 | 266.89 | 7141.00 | 194.65 | 55.48 | 91.90 | 2444.14 | 2058.29 | 6.33 | |
| 14400.00 | 14382.54 | 90.00 | 266.89 | 7141.00 | 197.42 | 56.20 | 91.90 | 2444.00 | 2052.61 | 6.24 | |
| 14500.00 | 14482.54 | 90.00 | 266.89 | 7141.00 | 200.19 | 56.93 | 91.90 | 2443.85 | 2046.93 | 6.16 | |
| 14600.00 | 14582.54 | 90.00 | 266.89 | 7141.00 | 202.96 | 57.65 | 91.90 | 2443.71 | 2041.24 | 6.07 | |
| 14700.00 | 14682.54 | 90.00 | 266.89 | 7141.00 | 205.73 | 58.38 | 91.90 | 2443.57 | 2035.56 | 5.99 | |
| 14800.00 | 14782.54 | 90.00 | 266.89 | 7141.00 | 208.51 | 59.10 | 91.90 | 2443.42 | 2029.87 | 5.91 | |
| 14900.00 | 14882.54 | 90.00 | 266.89 | 7141.00 | 211.28 | 59.83 | 91.90 | 2443.28 | 2024.18 | 5.83 | |
| 15000.00 | 14982.54 | 90.00 | 266.89 | 7141.00 | 214.06 | 60.55 | 91.90 | 2443.13 | 2018.50 | 5.75 | |
| 15100.00 | 15082.54 | 90.00 | 266.89 | 7141.00 | 216.83 | 61.28 | 91.90 | 2442.99 | 2012.80 | 5.68 | |
| 15200.00 | 15182.54 | 90.00 | 266.89 | 7141.00 | 219.61 | 62.01 | 91.90 | 2442.84 | 2007.11 | 5.61 | |
| 15300.00 | 15282.54 | 90.00 | 266.89 | 7141.00 | 222.39 | 62.73 | 91.90 | 2442.70 | 2001.42 | 5.54 | |
| 15400.00 | 15382.54 | 90.00 | 266.89 | 7141.00 | 225.16 | 63.46 | 91.90 | 2442.56 | 1995.73 | 5.47 | |
| 15500.00 | 15482.54 | 90.00 | 266.89 | 7141.00 | 227.94 | 64.18 | 91.90 | 2442.41 | 1990.03 | 5.40 | |
| 15600.00 | 15582.54 | 90.00 | 266.89 | 7141.00 | 230.72 | 64.91 | 91.90 | 2442.27 | 1984.33 | 5.33 | |
| 15700.00 | 15644.54 | 90.00 | 266.89 | 7141.00 | 232.44 | 65.36 | 91.90 | 2442.42 | 1980.24 | 5.28 | |
| 15768.80 | 15644.54 | 90.00 | 266.89 | 7141.00 | 232.44 | 65.36 | 91.90 | 2444.36 | 1981.00 | 5.28 | |

| 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 | 0.03 | 200.01 | 199.28 | 272.75 | |
| 100.00 | 100.00 | 0.00 | 0.00 | 100.00 | 0.11 | 0.11 | 0.03 | 200.01 | 199.05 | 209.66 | |
| 200.00 | 200.00 | 0.00 | 0.00 | 200.00 | 0.34 | 0.34 | 0.03 | 200.01 | 198.61 | 142.51 | |
| 300.00 | 300.00 | 0.00 | 0.00 | 300.00 | 0.56 | 0.56 | 0.03 | 200.01 | 198.16 | 107.93 | |
| 400.00 | 399.98 | 0.00 | 0.00 | 399.98 | 0.79 | 0.79 | 215.64 | 201.42 | 199.15 | 88.36 | |
| 500.00 | 499.84 | 0.00 | 0.00 | 499.84 | 1.01 | 1.01 | 214.84 | 205.70 | 202.99 | 75.98 | |
| 600.00 | 599.45 | 0.00 | 0.00 | 599.45 | 1.24 | 1.24 | 213.58 | 212.92 | 209.76 | 67.52 | |
| 700.00 | 698.70 | 0.00 | 0.00 | 698.70 | 1.46 | 1.46 | 211.96 | 223.19 | 219.58 | 61.76 | |
| 800.00 | 797.47 | 0.00 | 0.00 | 797.47 | 1.68 | 1.68 | 210.10 | 236.64 | 232.55 | 57.85 | |
| 900.00 | 895.62 | 0.00 | 0.00 | 895.62 | 1.90 | 1.90 | 208.10 | 253.39 | 248.80 | 55.22 | |
| 1000.00 | 993.06 | 0.00 | 0.00 | 993.06 | 2.12 | 2.12 | 206.07 | 273.52 | 268.43 | 53.69 | |

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 |
| 1100.00 | 1089.64 | 0.00 | 0.00 | 1089.64 | 2.34 | 2.34 | 204.09 | 297.11 | 291.51 | 53.05 | |
| 1200.00 | 1185.27 | 0.00 | 0.00 | 1185.27 | 2.55 | 2.55 | 202.20 | 324.17 | 318.07 | 53.07 | |
| 1300.00 | 1279.82 | 0.00 | 0.00 | 1279.82 | 2.76 | 2.76 | 200.45 | 354.72 | 348.09 | 53.49 | |
| 1400.00 | 1373.37 | 0.00 | 0.00 | 1373.37 | 2.97 | 2.97 | 198.74 | 388.23 | 381.09 | 54.33 | |
| 1500.00 | 1466.80 | 0.00 | 0.00 | 1466.80 | 3.18 | 3.18 | 197.20 | 422.35 | 414.68 | 55.05 | |
| 1600.00 | 1560.23 | 0.00 | 0.00 | 1560.23 | 3.39 | 3.39 | 195.88 | 456.70 | 448.53 | 55.89 | |
| 1700.00 | 1653.66 | 0.00 | 0.00 | 1653.66 | 3.60 | 3.60 | 194.75 | 491.23 | 482.55 | 56.57 | |
| 1800.00 | 1747.09 | 0.00 | 0.00 | 1747.09 | 3.81 | 3.81 | 193.76 | 525.91 | 516.72 | 57.19 | |
| 1900.00 | 1840.52 | 0.00 | 0.00 | 1840.52 | 4.02 | 4.02 | 192.90 | 560.72 | 551.01 | 57.77 | |
| 2000.00 | 1933.96 | 0.00 | 0.00 | 1933.96 | 4.23 | 4.23 | 192.14 | 595.62 | 585.41 | 58.32 | |
| 2100.00 | 2029.64 | 0.59 | 85.04 | 2029.64 | 4.45 | 4.45 | 191.45 | 630.55 | 619.81 | 58.71 | |
| 2200.00 | 2131.58 | 2.63 | 85.04 | 2131.53 | 4.66 | 4.65 | 191.04 | 664.68 | 653.41 | 58.98 | |
| 2300.00 | 2234.60 | 4.69 | 85.04 | 2234.34 | 4.87 | 4.85 | 190.96 | 697.64 | 685.81 | 59.02 | |
| 2400.00 | 2338.47 | 6.77 | 85.04 | 2337.68 | 5.10 | 5.05 | 191.19 | 729.39 | 717.00 | 58.85 | |
| 2500.00 | 2442.90 | 8.86 | 85.04 | 2441.14 | 5.35 | 5.25 | 191.67 | 759.97 | 746.98 | 58.51 | |
| 2600.00 | 2547.63 | 10.95 | 85.04 | 2544.31 | 5.62 | 5.45 | 192.39 | 789.43 | 775.78 | 57.84 | |
| 2700.00 | 2652.39 | 13.05 | 85.04 | 2646.76 | 5.93 | 5.65 | 193.31 | 817.85 | 803.50 | 56.98 | |
| 2800.00 | 2756.88 | 15.14 | 85.04 | 2748.10 | 6.28 | 5.85 | 194.42 | 845.38 | 830.26 | 55.91 | |
| 2900.00 | 2860.83 | 17.22 | 85.04 | 2847.94 | 6.68 | 6.05 | 195.69 | 872.15 | 856.16 | 54.53 | |
| 3000.00 | 2961.75 | 18.74 | 85.04 | 2943.82 | 7.13 | 6.26 | 197.06 | 898.37 | 881.45 | 53.10 | |
| 3100.00 | 3056.11 | 18.74 | 85.04 | 3033.18 | 7.59 | 6.49 | 198.34 | 924.79 | 906.91 | 51.72 | |
| 3200.00 | 3150.48 | 18.74 | 85.04 | 3122.55 | 8.08 | 6.72 | 199.54 | 951.62 | 932.76 | 50.43 | |
| 3300.00 | 3244.84 | 18.74 | 85.04 | 3211.91 | 8.59 | 6.96 | 200.68 | 978.84 | 958.94 | 49.18 | |
| 3400.00 | 3339.21 | 18.74 | 85.04 | 3301.28 | 9.11 | 7.21 | 201.76 | 1006.41 | 985.43 | 47.97 | |
| 3500.00 | 3433.57 | 18.74 | 85.04 | 3390.64 | 9.65 | 7.45 | 202.78 | 1034.31 | 1012.24 | 46.86 | |
| 3600.00 | 3527.93 | 18.74 | 85.04 | 3480.00 | 10.20 | 7.71 | 203.75 | 1062.50 | 1039.34 | 45.86 | |
| 3700.00 | 3622.30 | 18.74 | 85.04 | 3569.37 | 10.76 | 7.96 | 204.68 | 1090.97 | 1066.70 | 44.94 | |
| 3800.00 | 3716.66 | 18.74 | 85.04 | 3658.73 | 11.34 | 8.22 | 205.55 | 1119.70 | 1094.31 | 44.10 | |
| 3900.00 | 3811.02 | 18.74 | 85.04 | 3748.09 | 11.92 | 8.48 | 206.39 | 1148.66 | 1122.15 | 43.33 | |
| 4000.00 | 3905.39 | 18.74 | 85.04 | 3837.46 | 12.50 | 8.75 | 207.18 | 1177.84 | 1150.17 | 42.58 | |
| 4100.00 | 3999.75 | 18.74 | 85.04 | 3926.82 | 13.09 | 9.02 | 207.94 | 1207.22 | 1178.35 | 41.83 | |
| 4200.00 | 4094.12 | 18.74 | 85.04 | 4016.19 | 13.69 | 9.29 | 208.66 | 1236.78 | 1206.72 | 41.14 | |
| 4300.00 | 4188.48 | 18.74 | 85.04 | 4105.55 | 14.29 | 9.56 | 209.35 | 1266.53 | 1235.26 | 40.51 | |
| 4400.00 | 4282.84 | 18.74 | 85.04 | 4194.91 | 14.90 | 9.83 | 210.00 | 1296.43 | 1263.96 | 39.92 | |
| 4500.00 | 4377.21 | 18.74 | 85.04 | 4284.28 | 15.50 | 10.11 | 210.63 | 1326.49 | 1292.81 | 39.39 | |
| 4600.00 | 4471.57 | 18.74 | 85.04 | 4373.64 | 16.11 | 10.38 | 211.23 | 1356.69 | 1321.80 | 38.89 | |
| 4700.00 | 4565.93 | 18.74 | 85.04 | 4463.00 | 16.73 | 10.66 | 211.81 | 1387.02 | 1350.92 | 38.42 | |
| 4800.00 | 4660.30 | 18.74 | 85.04 | 4552.37 | 17.34 | 10.94 | 212.36 | 1417.47 | 1380.16 | 37.99 | |
| 4900.00 | 4754.66 | 18.74 | 85.04 | 4641.73 | 17.96 | 11.22 | 212.89 | 1448.04 | 1409.52 | 37.59 | |
| 5000.00 | 4849.03 | 18.74 | 85.04 | 4731.10 | 18.58 | 11.50 | 213.39 | 1478.72 | 1438.99 | 37.22 | |
| 5100.00 | 4943.39 | 18.74 | 85.04 | 4820.46 | 19.20 | 11.78 | 213.88 | 1509.50 | 1468.57 | 36.87 | |
| 5200.00 | 5037.75 | 18.74 | 85.04 | 4909.82 | 19.83 | 12.07 | 214.35 | 1540.38 | 1498.23 | 36.55 | |
| 5300.00 | 5132.12 | 18.74 | 85.04 | 4999.19 | 20.45 | 12.35 | 214.79 | 1571.35 | 1527.99 | 36.24 | |
| 5400.00 | 5226.48 | 18.74 | 85.04 | 5088.55 | 21.08 | 12.63 | 215.23 | 1602.40 | 1557.82 | 35.95 | |
| 5500.00 | 5320.85 | 18.74 | 85.04 | 5177.91 | 21.70 | 12.92 | 215.64 | 1633.54 | 1587.72 | 35.65 | |
| 5600.00 | 5415.21 | 18.74 | 85.04 | 5267.28 | 22.33 | 13.21 | 216.04 | 1664.75 | 1617.69 | 35.38 | |
| 5700.00 | 5509.57 | 18.74 | 85.04 | 5356.64 | 22.96 | 13.49 | 216.43 | 1696.03 | 1647.73 | 35.12 | |
| 5800.00 | 5603.94 | 18.74 | 85.04 | 5446.01 | 23.59 | 13.78 | 216.80 | 1727.38 | 1677.84 | 34.87 | |
| 5900.00 | 5698.30 | 18.74 | 85.04 | 5535.37 | 24.22 | 14.07 | 217.16 | 1758.79 | 1708.01 | 34.64 | |
| 6000.00 | 5792.66 | 18.74 | 85.04 | 5624.73 | 24.86 | 14.36 | 217.51 | 1790.26 | 1738.25 | 34.42 | |
| 6100.00 | 5887.03 | 18.74 | 85.04 | 5714.10 | 25.49 | 14.65 | 217.84 | 1821.79 | 1768.54 | 34.21 | |
| 6200.00 | 5981.39 | 18.74 | 85.04 | 5803.46 | 26.12 | 14.94 | 218.16 | 1853.38 | 1798.89 | 34.02 | |
| 6300.00 | 6075.76 | 18.74 | 85.04 | 5892.82 | 26.76 | 15.23 | 218.48 | 1885.02 | 1829.29 | 33.83 | |
| 6400.00 | 6170.12 | 18.74 | 85.04 | 5982.19 | 27.39 | 15.52 | 218.78 | 1916.70 | 1859.75 | 33.65 | |
| 6500.00 | 6279.91 | 12.72 | 84.20 | 6087.30 | 28.00 | 15.87 | 219.00 | 1948.20 | 1889.98 | 33.46 | |
| 6600.00 | 6398.56 | 3.26 | 76.81 | 6204.67 | 28.34 | 15.91 | 218.68 | 1978.62 | 1919.56 | 33.50 | |
| 6700.00 | 6513.20 | 5.98 | 272.05 | 6319.14 | 28.41 | 15.54 | 198.15 | 2008.63 | 1949.29 | 33.85 | |
| 6800.00 | 6624.22 | 14.85 | 268.80 | 6428.22 | 28.31 | 14.84 | 170.38 | 2039.01 | 1979.83 | 34.46 | |

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 |
| 6900.00 | 6732.02 | 23.47 | 267.98 | 6529.96 | 28.11 | 13.88 | 146.20 | 2069.20 | 2010.49 | 35.24 | |
| 7000.00 | 6837.01 | 31.87 | 267.59 | 6622.87 | 27.86 | 12.75 | 128.95 | 2098.61 | 2040.52 | 36.13 | |
| 7100.00 | 6939.55 | 40.07 | 267.36 | 6705.79 | 27.63 | 11.55 | 117.03 | 2126.66 | 2069.19 | 37.01 | |
| 7200.00 | 7039.94 | 48.10 | 267.19 | 6777.84 | 27.48 | 10.40 | 108.51 | 2152.80 | 2095.91 | 37.85 | |
| 7300.00 | 7138.39 | 55.97 | 267.07 | 6838.36 | 27.45 | 9.48 | 102.19 | 2176.49 | 2120.03 | 38.55 | |
| 7400.00 | 7235.08 | 63.71 | 266.97 | 6886.90 | 27.59 | 8.94 | 97.37 | 2197.26 | 2140.99 | 39.05 | |
| 7500.00 | 7330.09 | 71.31 | 266.88 | 6923.22 | 27.92 | 8.91 | 93.70 | 2214.70 | 2158.29 | 39.27 | |
| 7600.00 | 7423.47 | 78.78 | 266.80 | 6947.31 | 28.44 | 9.39 | 90.95 | 2228.45 | 2171.45 | 39.09 | |
| 7700.00 | 7515.25 | 86.12 | 266.73 | 6959.36 | 29.14 | 10.29 | 88.99 | 2238.26 | 2180.19 | 38.55 | |
| 7800.00 | 7609.71 | 90.00 | 266.69 | 6961.00 | 30.03 | 11.10 | 87.77 | 2243.87 | 2184.35 | 37.70 | |
| 7900.00 | 7709.55 | 90.00 | 266.69 | 6961.00 | 31.19 | 11.59 | 87.47 | 2244.90 | 2183.52 | 36.57 | |
| 8000.00 | 7809.55 | 90.00 | 266.69 | 6961.00 | 32.55 | 12.11 | 87.47 | 2244.40 | 2180.69 | 35.23 | |
| 8100.00 | 7909.54 | 90.00 | 266.69 | 6961.00 | 34.08 | 12.65 | 87.47 | 2243.90 | 2177.41 | 33.75 | |
| 8200.00 | 8009.54 | 90.00 | 266.69 | 6961.00 | 35.76 | 13.20 | 87.47 | 2243.40 | 2173.83 | 32.24 | |
| 8300.00 | 8109.54 | 90.00 | 266.69 | 6961.00 | 37.58 | 13.78 | 87.47 | 2242.90 | 2169.97 | 30.75 | |
| 8400.00 | 8209.54 | 90.00 | 266.69 | 6961.00 | 39.52 | 14.37 | 87.47 | 2242.40 | 2165.84 | 29.29 | |
| 8500.00 | 8309.54 | 90.00 | 266.69 | 6961.00 | 41.55 | 14.97 | 87.47 | 2241.90 | 2161.49 | 27.88 | |
| 8600.00 | 8409.54 | 90.00 | 266.69 | 6961.00 | 43.66 | 15.58 | 87.47 | 2241.40 | 2156.96 | 26.54 | |
| 8700.00 | 8509.54 | 90.00 | 266.69 | 6961.00 | 45.85 | 16.20 | 87.47 | 2240.90 | 2152.24 | 25.27 | |
| 8800.00 | 8609.54 | 90.00 | 266.69 | 6961.00 | 48.11 | 16.83 | 87.47 | 2240.41 | 2147.33 | 24.07 | |
| 8900.00 | 8709.53 | 90.00 | 266.69 | 6961.00 | 50.42 | 17.47 | 87.47 | 2239.91 | 2142.43 | 22.98 | |
| 9000.00 | 8809.53 | 90.00 | 266.69 | 6961.00 | 52.77 | 18.12 | 87.47 | 2239.41 | 2137.29 | 21.93 | |
| 9100.00 | 8909.53 | 90.00 | 266.69 | 6961.00 | 55.17 | 18.77 | 87.47 | 2238.91 | 2132.04 | 20.95 | |
| 9200.00 | 9009.53 | 90.00 | 266.69 | 6961.00 | 57.60 | 19.43 | 87.47 | 2238.41 | 2126.74 | 20.05 | |
| 9300.00 | 9109.53 | 90.00 | 266.69 | 6961.00 | 60.06 | 20.09 | 87.46 | 2237.91 | 2121.38 | 19.21 | |
| 9400.00 | 9209.53 | 90.00 | 266.69 | 6961.00 | 62.56 | 20.76 | 87.46 | 2237.41 | 2115.97 | 18.42 | |
| 9500.00 | 9309.53 | 90.00 | 266.69 | 6961.00 | 65.07 | 21.43 | 87.46 | 2236.91 | 2110.50 | 17.70 | |
| 9600.00 | 9409.53 | 90.00 | 266.69 | 6961.00 | 67.61 | 22.11 | 87.46 | 2236.41 | 2104.99 | 17.02 | |
| 9700.00 | 9509.52 | 90.00 | 266.69 | 6961.00 | 70.17 | 22.79 | 87.46 | 2235.91 | 2099.44 | 16.38 | |
| 9800.00 | 9609.52 | 90.00 | 266.69 | 6961.00 | 72.75 | 23.47 | 87.46 | 2235.41 | 2093.85 | 15.79 | |
| 9900.00 | 9709.52 | 90.00 | 266.69 | 6961.00 | 75.34 | 24.16 | 87.46 | 2234.91 | 2088.24 | 15.24 | |
| 10000.00 | 9809.52 | 90.00 | 266.69 | 6961.00 | 77.95 | 24.85 | 87.46 | 2234.41 | 2082.57 | 14.72 | |
| 10100.00 | 9909.52 | 90.00 | 266.69 | 6961.00 | 80.57 | 25.54 | 87.46 | 2233.91 | 2076.84 | 14.22 | |
| 10200.00 | 10009.52 | 90.00 | 266.69 | 6961.00 | 83.20 | 26.23 | 87.46 | 2233.41 | 2071.09 | 13.76 | |
| 10300.00 | 10109.52 | 90.00 | 266.69 | 6961.00 | 85.84 | 26.93 | 87.46 | 2232.91 | 2065.31 | 13.32 | |
| 10400.00 | 10209.52 | 90.00 | 266.69 | 6961.00 | 88.49 | 27.62 | 87.46 | 2232.42 | 2059.52 | 12.91 | |
| 10500.00 | 10309.51 | 90.00 | 266.69 | 6961.00 | 91.15 | 28.32 | 87.46 | 2231.92 | 2053.71 | 12.52 | |
| 10600.00 | 10409.51 | 90.00 | 266.69 | 6961.00 | 93.82 | 29.02 | 87.46 | 2231.42 | 2047.88 | 12.16 | |
| 10700.00 | 10509.51 | 90.00 | 266.69 | 6961.00 | 96.50 | 29.73 | 87.46 | 2230.92 | 2042.04 | 11.81 | |
| 10800.00 | 10609.51 | 90.00 | 266.69 | 6961.00 | 99.18 | 30.43 | 87.46 | 2230.42 | 2036.18 | 11.48 | |
| 10900.00 | 10709.51 | 90.00 | 266.69 | 6961.00 | 101.87 | 31.14 | 87.46 | 2229.92 | 2030.31 | 11.17 | |
| 11000.00 | 10809.51 | 90.00 | 266.69 | 6961.00 | 104.56 | 31.84 | 87.45 | 2229.42 | 2024.43 | 10.88 | |
| 11100.00 | 10909.51 | 90.00 | 266.69 | 6961.00 | 107.26 | 32.55 | 87.45 | 2228.92 | 2018.54 | 10.59 | |
| 11200.00 | 11009.51 | 90.00 | 266.69 | 6961.00 | 109.96 | 33.26 | 87.45 | 2228.42 | 2012.63 | 10.33 | |
| 11300.00 | 11109.50 | 90.00 | 266.69 | 6961.00 | 112.67 | 33.97 | 87.45 | 2227.92 | 2006.72 | 10.07 | |
| 11400.00 | 11209.50 | 90.00 | 266.69 | 6961.00 | 115.39 | 34.68 | 87.45 | 2227.42 | 2000.80 | 9.83 | |
| 11500.00 | 11309.50 | 90.00 | 266.69 | 6961.00 | 118.10 | 35.39 | 87.45 | 2226.92 | 1994.87 | 9.60 | |
| 11600.00 | 11409.50 | 90.00 | 266.69 | 6961.00 | 120.82 | 36.10 | 87.45 | 2226.42 | 1988.94 | 9.38 | |
| 11700.00 | 11509.50 | 90.00 | 266.69 | 6961.00 | 123.55 | 36.82 | 87.45 | 2225.92 | 1983.00 | 9.16 | |
| 11800.00 | 11609.50 | 90.00 | 266.69 | 6961.00 | 126.28 | 37.53 | 87.45 | 2225.42 | 1977.05 | 8.96 | |
| 11900.00 | 11709.50 | 90.00 | 266.69 | 6961.00 | 129.01 | 38.25 | 87.45 | 2224.92 | 1971.09 | 8.77 | |
| 12000.00 | 11809.50 | 90.00 | 266.69 | 6961.00 | 131.74 | 38.96 | 87.45 | 2224.43 | 1965.13 | 8.58 | |
| 12100.00 | 11909.49 | 90.00 | 266.69 | 6961.00 | 134.48 | 39.68 | 87.45 | 2223.93 | 1959.17 | 8.40 | |
| 12200.00 | 12009.49 | 90.00 | 266.69 | 6961.00 | 137.21 | 40.40 | 87.45 | 2223.43 | 1953.20 | 8.23 | |
| 12300.00 | 12109.49 | 90.00 | 266.69 | 6961.00 | 139.96 | 41.11 | 87.45 | 2222.93 | 1947.22 | 8.06 | |
| 12400.00 | 12209.49 | 90.00 | 266.69 | 6961.00 | 142.70 | 41.83 | 87.45 | 2222.43 | 1941.24 | 7.90 | |
| 12500.00 | 12309.49 | 90.00 | 266.69 | 6961.00 | 145.44 | 42.55 | 87.45 | 2221.93 | 1935.26 | 7.75 | |
| 12600.00 | 12409.49 | 90.00 | 266.69 | 6961.00 | 148.19 | 43.27 | 87.45 | 2221.43 | 1929.27 | 7.60 | |

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 |
| 12700.00 | 12509.49 | 90.00 | 266.69 | 6961.00 | 150.94 | 43.99 | 87.45 | 2220.93 | 1923.27 | 7.46 | |
| 12800.00 | 12609.49 | 90.00 | 266.69 | 6961.00 | 153.69 | 44.71 | 87.44 | 2220.43 | 1917.28 | 7.32 | |
| 12900.00 | 12709.48 | 90.00 | 266.69 | 6961.00 | 156.44 | 45.43 | 87.44 | 2219.93 | 1911.28 | 7.19 | |
| 13000.00 | 12809.48 | 90.00 | 266.69 | 6961.00 | 159.20 | 46.15 | 87.44 | 2219.43 | 1905.28 | 7.06 | |
| 13100.00 | 12909.48 | 90.00 | 266.69 | 6961.00 | 161.95 | 46.87 | 87.44 | 2218.93 | 1899.27 | 6.94 | |
| 13200.00 | 13009.48 | 90.00 | 266.69 | 6961.00 | 164.71 | 47.59 | 87.44 | 2218.43 | 1893.26 | 6.82 | |
| 13300.00 | 13109.48 | 90.00 | 266.69 | 6961.00 | 167.47 | 48.32 | 87.44 | 2217.93 | 1887.25 | 6.71 | |
| 13400.00 | 13209.48 | 90.00 | 266.69 | 6961.00 | 170.23 | 49.04 | 87.44 | 2217.43 | 1881.24 | 6.60 | |
| 13500.00 | 13309.48 | 90.00 | 266.69 | 6961.00 | 172.99 | 49.76 | 87.44 | 2216.93 | 1875.22 | 6.49 | |
| 13600.00 | 13409.48 | 90.00 | 266.69 | 6961.00 | 175.75 | 50.48 | 87.44 | 2216.44 | 1869.20 | 6.38 | |
| 13700.00 | 13509.47 | 90.00 | 266.69 | 6961.00 | 178.51 | 51.21 | 87.44 | 2215.94 | 1863.18 | 6.28 | |
| 13800.00 | 13609.47 | 90.00 | 266.69 | 6961.00 | 181.28 | 51.93 | 87.44 | 2215.44 | 1857.16 | 6.18 | |
| 13900.00 | 13709.47 | 90.00 | 266.69 | 6961.00 | 184.04 | 52.66 | 87.44 | 2214.94 | 1851.14 | 6.09 | |
| 14000.00 | 13809.47 | 90.00 | 266.69 | 6961.00 | 186.81 | 53.38 | 87.44 | 2214.44 | 1845.11 | 6.00 | |
| 14100.00 | 13909.47 | 90.00 | 266.69 | 6961.00 | 189.58 | 54.10 | 87.44 | 2213.94 | 1839.08 | 5.91 | |
| 14200.00 | 14009.47 | 90.00 | 266.69 | 6961.00 | 192.34 | 54.83 | 87.44 | 2213.44 | 1833.05 | 5.82 | |
| 14300.00 | 14109.47 | 90.00 | 266.69 | 6961.00 | 195.11 | 55.55 | 87.44 | 2212.94 | 1827.02 | 5.73 | |
| 14400.00 | 14209.47 | 90.00 | 266.69 | 6961.00 | 197.88 | 56.28 | 87.44 | 2212.44 | 1820.98 | 5.65 | |
| 14500.00 | 14309.46 | 90.00 | 266.69 | 6961.00 | 200.65 | 57.00 | 87.43 | 2211.94 | 1814.95 | 5.57 | |
| 14600.00 | 14409.46 | 90.00 | 266.69 | 6961.00 | 203.42 | 57.73 | 87.43 | 2211.44 | 1808.91 | 5.49 | |
| 14700.00 | 14509.46 | 90.00 | 266.69 | 6961.00 | 206.20 | 58.45 | 87.43 | 2210.94 | 1802.87 | 5.42 | |
| 14800.00 | 14609.46 | 90.00 | 266.69 | 6961.00 | 208.97 | 59.18 | 87.43 | 2210.44 | 1796.83 | 5.34 | |
| 14900.00 | 14709.46 | 90.00 | 266.69 | 6961.00 | 211.74 | 59.91 | 87.43 | 2209.94 | 1790.79 | 5.27 | |
| 15000.00 | 14809.46 | 90.00 | 266.69 | 6961.00 | 214.51 | 60.63 | 87.43 | 2209.44 | 1784.75 | 5.20 | |
| 15100.00 | 14909.46 | 90.00 | 266.69 | 6961.00 | 217.29 | 61.36 | 87.43 | 2208.95 | 1778.71 | 5.13 | |
| 15200.00 | 15009.46 | 90.00 | 266.69 | 6961.00 | 220.06 | 62.09 | 87.43 | 2208.45 | 1772.66 | 5.07 | |
| 15300.00 | 15109.45 | 90.00 | 266.69 | 6961.00 | 222.84 | 62.81 | 87.43 | 2207.95 | 1766.61 | 5.00 | |
| 15400.00 | 15209.45 | 90.00 | 266.69 | 6961.00 | 225.62 | 63.54 | 87.43 | 2207.45 | 1760.57 | 4.94 | |
| 15500.00 | 15309.45 | 90.00 | 266.69 | 6961.00 | 228.39 | 64.27 | 87.43 | 2206.95 | 1754.52 | 4.88 | |
| 15600.00 | 15409.45 | 90.00 | 266.69 | 6961.00 | 231.17 | 64.99 | 87.43 | 2206.45 | 1748.47 | 4.82 | |
| 15700.00 | 15473.86 | 90.00 | 266.69 | 6961.00 | 232.96 | 65.46 | 87.43 | 2206.24 | 1743.96 | 4.77 | |
| 15768.80 | 15473.86 | 90.00 | 266.69 | 6961.00 | 232.96 | 65.46 | 87.43 | 2208.07 | 1744.76 | 4.77 | |
| 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 | 179.97 | 179.24 | 245.42 | |
| 100.00 | 100.00 | 0.00 | 0.00 | 100.00 | 0.11 | 0.11 | 0.08 | 179.97 | 179.02 | 188.66 | |
| 200.00 | 200.00 | 0.00 | 0.00 | 200.00 | 0.34 | 0.34 | 0.08 | 179.97 | 178.57 | 128.23 | |
| 300.00 | 300.00 | 0.00 | 0.00 | 300.00 | 0.56 | 0.56 | 0.08 | 179.97 | 178.12 | 97.12 | |
| 400.00 | 399.98 | 0.00 | 0.00 | 399.98 | 0.79 | 0.79 | 215.66 | 181.39 | 179.11 | 79.57 | |
| 500.00 | 499.84 | 0.00 | 0.00 | 499.84 | 1.01 | 1.01 | 214.77 | 185.67 | 182.96 | 68.58 | |
| 600.00 | 599.45 | 0.00 | 0.00 | 599.45 | 1.24 | 1.24 | 213.37 | 192.89 | 189.74 | 61.18 | |
| 700.00 | 698.70 | 0.00 | 0.00 | 698.70 | 1.46 | 1.46 | 211.59 | 203.20 | 199.59 | 56.26 | |
| 800.00 | 797.47 | 0.00 | 0.00 | 797.47 | 1.68 | 1.68 | 209.57 | 216.71 | 212.62 | 52.98 | |
| 900.00 | 895.62 | 0.00 | 0.00 | 895.62 | 1.90 | 1.90 | 207.42 | 233.55 | 228.97 | 50.94 | |
| 1000.00 | 993.06 | 0.00 | 0.00 | 993.06 | 2.12 | 2.12 | 205.27 | 253.82 | 248.73 | 49.89 | |
| 1100.00 | 1089.64 | 0.00 | 0.00 | 1089.64 | 2.34 | 2.34 | 203.19 | 277.55 | 271.96 | 49.62 | |
| 1200.00 | 1185.27 | 0.00 | 0.00 | 1185.27 | 2.55 | 2.55 | 201.24 | 304.79 | 298.69 | 49.98 | |
| 1300.00 | 1279.82 | 0.00 | 0.00 | 1279.82 | 2.76 | 2.76 | 199.46 | 335.52 | 328.90 | 50.71 | |
| 1400.00 | 1373.37 | 0.00 | 0.00 | 1373.37 | 2.97 | 2.97 | 197.73 | 369.21 | 362.08 | 51.75 | |
| 1500.00 | 1466.80 | 0.00 | 0.00 | 1466.80 | 3.18 | 3.18 | 196.20 | 403.49 | 395.84 | 52.71 | |
| 1600.00 | 1560.23 | 0.00 | 0.00 | 1560.23 | 3.39 | 3.39 | 194.90 | 437.99 | 429.84 | 53.75 | |
| 1700.00 | 1653.66 | 0.00 | 0.00 | 1653.66 | 3.60 | 3.60 | 193.80 | 472.66 | 464.00 | 54.59 | |
| 1800.00 | 1751.15 | 1.02 | 92.75 | 1751.14 | 3.82 | 3.82 | 192.85 | 507.28 | 498.10 | 55.27 | |
| 1900.00 | 1853.79 | 3.08 | 92.75 | 1853.71 | 4.03 | 4.02 | 192.31 | 540.65 | 530.95 | 55.70 | |
| 2000.00 | 1957.79 | 5.16 | 92.75 | 1957.44 | 4.24 | 4.22 | 192.17 | 572.50 | 562.25 | 55.85 | |
| 2100.00 | 2062.89 | 7.26 | 92.75 | 2061.92 | 4.48 | 4.42 | 192.39 | 602.76 | 591.94 | 55.69 | |

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 |
| 2200.00 | 2168.83 | 9.38 | 92.75 | 2166.74 | 4.73 | 4.63 | 192.92 | 631.46 | 620.03 | 55.23 | |
| 2300.00 | 2275.32 | 11.51 | 92.75 | 2271.46 | 5.02 | 4.83 | 193.72 | 658.63 | 646.55 | 54.51 | |
| 2400.00 | 2382.07 | 13.64 | 92.75 | 2375.65 | 5.36 | 5.04 | 194.76 | 684.39 | 671.60 | 53.51 | |
| 2500.00 | 2488.79 | 15.78 | 92.75 | 2478.86 | 5.75 | 5.25 | 196.02 | 708.85 | 695.22 | 51.99 | |
| 2600.00 | 2590.31 | 16.91 | 92.75 | 2576.15 | 6.17 | 5.47 | 197.38 | 732.34 | 717.81 | 50.40 | |
| 2700.00 | 2686.18 | 16.91 | 92.75 | 2667.87 | 6.61 | 5.70 | 198.62 | 755.97 | 740.55 | 49.00 | |
| 2800.00 | 2782.04 | 16.91 | 92.75 | 2759.59 | 7.08 | 5.93 | 199.78 | 779.93 | 763.58 | 47.71 | |
| 2900.00 | 2877.91 | 16.91 | 92.75 | 2851.32 | 7.56 | 6.17 | 200.88 | 804.19 | 786.88 | 46.47 | |
| 3000.00 | 2973.77 | 16.91 | 92.75 | 2943.04 | 8.05 | 6.42 | 201.91 | 828.71 | 810.40 | 45.26 | |
| 3100.00 | 3069.64 | 16.91 | 92.75 | 3034.76 | 8.56 | 6.66 | 202.89 | 853.47 | 834.13 | 44.14 | |
| 3200.00 | 3165.50 | 16.91 | 92.75 | 3126.48 | 9.08 | 6.92 | 203.81 | 878.46 | 858.07 | 43.08 | |
| 3300.00 | 3261.37 | 16.91 | 92.75 | 3218.20 | 9.61 | 7.17 | 204.68 | 903.65 | 882.20 | 42.12 | |
| 3400.00 | 3357.23 | 16.91 | 92.75 | 3309.92 | 10.15 | 7.43 | 205.51 | 929.03 | 906.51 | 41.25 | |
| 3500.00 | 3453.10 | 16.91 | 92.75 | 3401.64 | 10.69 | 7.69 | 206.29 | 954.59 | 930.99 | 40.45 | |
| 3600.00 | 3548.96 | 16.91 | 92.75 | 3493.37 | 11.24 | 7.95 | 207.03 | 980.30 | 955.62 | 39.71 | |
| 3700.00 | 3644.83 | 16.91 | 92.75 | 3585.09 | 11.79 | 8.21 | 207.73 | 1006.17 | 980.36 | 38.98 | |
| 3800.00 | 3740.69 | 16.91 | 92.75 | 3676.81 | 12.35 | 8.48 | 208.40 | 1032.17 | 1005.22 | 38.31 | |
| 3900.00 | 3836.56 | 16.91 | 92.75 | 3768.53 | 12.91 | 8.75 | 209.04 | 1058.29 | 1030.22 | 37.69 | |
| 4000.00 | 3932.42 | 16.91 | 92.75 | 3860.25 | 13.48 | 9.02 | 209.64 | 1084.54 | 1055.32 | 37.12 | |
| 4100.00 | 4028.29 | 16.91 | 92.75 | 3951.97 | 14.04 | 9.29 | 210.22 | 1110.89 | 1080.53 | 36.60 | |
| 4200.00 | 4124.16 | 16.91 | 92.75 | 4043.69 | 14.61 | 9.56 | 210.77 | 1137.34 | 1105.85 | 36.11 | |
| 4300.00 | 4220.02 | 16.91 | 92.75 | 4135.42 | 15.18 | 9.83 | 211.30 | 1163.89 | 1131.25 | 35.66 | |
| 4400.00 | 4315.89 | 16.91 | 92.75 | 4227.14 | 15.76 | 10.11 | 211.80 | 1190.53 | 1156.74 | 35.24 | |
| 4500.00 | 4411.75 | 16.91 | 92.75 | 4318.86 | 16.33 | 10.38 | 212.28 | 1217.25 | 1182.31 | 34.85 | |
| 4600.00 | 4507.62 | 16.91 | 92.75 | 4410.58 | 16.91 | 10.66 | 212.74 | 1244.04 | 1207.96 | 34.48 | |
| 4700.00 | 4603.48 | 16.91 | 92.75 | 4502.30 | 17.49 | 10.94 | 213.19 | 1270.91 | 1233.68 | 34.14 | |
| 4800.00 | 4699.35 | 16.91 | 92.75 | 4594.02 | 18.07 | 11.22 | 213.61 | 1297.85 | 1259.47 | 33.82 | |
| 4900.00 | 4795.21 | 16.91 | 92.75 | 4685.74 | 18.65 | 11.49 | 214.02 | 1324.85 | 1285.30 | 33.50 | |
| 5000.00 | 4891.08 | 16.91 | 92.75 | 4777.46 | 19.23 | 11.77 | 214.41 | 1351.91 | 1311.20 | 33.21 | |
| 5100.00 | 4986.94 | 16.91 | 92.75 | 4869.19 | 19.81 | 12.05 | 214.78 | 1379.02 | 1337.15 | 32.93 | |
| 5200.00 | 5082.81 | 16.91 | 92.75 | 4960.91 | 20.40 | 12.33 | 215.14 | 1406.19 | 1363.14 | 32.67 | |
| 5300.00 | 5178.67 | 16.91 | 92.75 | 5052.63 | 20.98 | 12.61 | 215.49 | 1433.41 | 1389.17 | 32.40 | |
| 5400.00 | 5274.54 | 16.91 | 92.75 | 5144.35 | 21.57 | 12.90 | 215.82 | 1460.68 | 1415.24 | 32.15 | |
| 5500.00 | 5370.40 | 16.91 | 92.75 | 5236.07 | 22.15 | 13.18 | 216.14 | 1487.99 | 1441.36 | 31.91 | |
| 5600.00 | 5466.27 | 16.91 | 92.75 | 5327.79 | 22.74 | 13.46 | 216.45 | 1515.34 | 1467.52 | 31.69 | |
| 5700.00 | 5562.14 | 16.91 | 92.75 | 5419.51 | 23.33 | 13.74 | 216.75 | 1542.73 | 1493.72 | 31.48 | |
| 5800.00 | 5658.00 | 16.91 | 92.75 | 5511.24 | 23.91 | 14.03 | 217.04 | 1570.16 | 1519.96 | 31.27 | |
| 5900.00 | 5753.87 | 16.91 | 92.75 | 5602.96 | 24.50 | 14.31 | 217.32 | 1597.63 | 1546.23 | 31.08 | |
| 6000.00 | 5849.73 | 16.91 | 92.75 | 5694.68 | 25.09 | 14.60 | 217.59 | 1625.13 | 1572.54 | 30.90 | |
| 6100.00 | 5945.60 | 16.91 | 92.75 | 5786.40 | 25.68 | 14.88 | 217.85 | 1652.66 | 1598.87 | 30.72 | |
| 6200.00 | 6041.46 | 16.91 | 92.75 | 5878.12 | 26.27 | 15.16 | 218.11 | 1680.23 | 1625.25 | 30.56 | |
| 6300.00 | 6137.33 | 16.91 | 92.75 | 5969.84 | 26.86 | 15.45 | 218.35 | 1707.82 | 1651.64 | 30.40 | |
| 6400.00 | 6233.19 | 16.91 | 92.75 | 6061.56 | 27.45 | 15.74 | 218.59 | 1735.44 | 1678.07 | 30.25 | |
| 6500.00 | 6346.48 | 9.89 | 97.30 | 6171.33 | 27.95 | 16.03 | 218.67 | 1762.74 | 1704.24 | 30.13 | |
| 6600.00 | 6464.27 | 1.86 | 167.54 | 6288.47 | 28.17 | 15.96 | 218.15 | 1788.86 | 1729.75 | 30.26 | |
| 6700.00 | 6576.65 | 8.89 | 254.81 | 6400.38 | 28.17 | 15.51 | 197.74 | 1814.62 | 1755.44 | 30.66 | |
| 6800.00 | 6684.75 | 17.44 | 260.81 | 6505.54 | 28.02 | 14.76 | 170.16 | 1840.84 | 1782.02 | 31.30 | |
| 6900.00 | 6789.09 | 25.75 | 262.86 | 6602.48 | 27.77 | 13.78 | 146.17 | 1867.03 | 1808.84 | 32.08 | |
| 7000.00 | 6890.18 | 33.82 | 263.93 | 6690.14 | 27.49 | 12.66 | 129.11 | 1892.68 | 1835.14 | 32.89 | |
| 7100.00 | 6988.46 | 41.67 | 264.61 | 6767.79 | 27.23 | 11.49 | 117.38 | 1917.25 | 1860.42 | 33.73 | |
| 7200.00 | 7084.31 | 49.33 | 265.10 | 6834.92 | 27.06 | 10.39 | 109.03 | 1940.25 | 1884.05 | 34.53 | |
| 7300.00 | 7178.05 | 56.83 | 265.48 | 6891.19 | 27.01 | 9.51 | 102.85 | 1961.19 | 1905.45 | 35.18 | |
| 7400.00 | 7269.94 | 64.17 | 265.79 | 6936.41 | 27.12 | 8.98 | 98.16 | 1979.63 | 1924.06 | 35.63 | |
| 7500.00 | 7360.17 | 71.39 | 266.06 | 6970.51 | 27.42 | 8.91 | 94.59 | 1995.20 | 1939.47 | 35.81 | |
| 7600.00 | 7448.88 | 78.48 | 266.30 | 6993.56 | 27.89 | 9.32 | 91.92 | 2007.55 | 1951.15 | 35.59 | |
| 7700.00 | 7536.19 | 85.46 | 266.53 | 7005.75 | 28.52 | 10.12 | 90.03 | 2016.45 | 1958.98 | 35.09 | |
| 7800.00 | 7626.80 | 90.00 | 266.68 | 7008.00 | 29.35 | 10.95 | 88.83 | 2021.64 | 1962.74 | 34.32 | |
| 7900.00 | 7726.65 | 90.00 | 266.68 | 7008.00 | 30.45 | 11.43 | 88.53 | 2022.58 | 1961.85 | 33.31 | |

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 |
| 8000.00 | 7826.64 | 90.00 | 266.68 | 7008.00 | 31.77 | 11.93 | 88.53 | 2022.06 | 1959.03 | 32.08 | |
| 8100.00 | 7926.64 | 90.00 | 266.68 | 7008.00 | 33.27 | 12.46 | 88.53 | 2021.55 | 1955.76 | 30.73 | |
| 8200.00 | 8026.64 | 90.00 | 266.68 | 7008.00 | 34.93 | 13.00 | 88.53 | 2021.03 | 1952.18 | 29.35 | |
| 8300.00 | 8126.64 | 90.00 | 266.68 | 7008.00 | 36.73 | 13.56 | 88.53 | 2020.52 | 1948.33 | 27.99 | |
| 8400.00 | 8226.64 | 90.00 | 266.68 | 7008.00 | 38.65 | 14.14 | 88.52 | 2020.00 | 1944.21 | 26.65 | |
| 8500.00 | 8326.64 | 90.00 | 266.68 | 7008.00 | 40.67 | 14.74 | 88.52 | 2019.49 | 1939.84 | 25.35 | |
| 8600.00 | 8426.64 | 90.00 | 266.68 | 7008.00 | 42.78 | 15.34 | 88.52 | 2018.98 | 1935.27 | 24.12 | |
| 8700.00 | 8526.63 | 90.00 | 266.68 | 7008.00 | 44.96 | 15.96 | 88.52 | 2018.46 | 1930.53 | 22.96 | |
| 8800.00 | 8626.63 | 90.00 | 266.68 | 7008.00 | 47.21 | 16.58 | 88.52 | 2017.95 | 1925.60 | 21.85 | |
| 8900.00 | 8726.63 | 90.00 | 266.68 | 7008.00 | 49.51 | 17.22 | 88.52 | 2017.43 | 1920.69 | 20.85 | |
| 9000.00 | 8826.63 | 90.00 | 266.68 | 7008.00 | 51.87 | 17.86 | 88.52 | 2016.92 | 1915.54 | 19.90 | |
| 9100.00 | 8926.63 | 90.00 | 266.68 | 7008.00 | 54.26 | 18.51 | 88.52 | 2016.40 | 1910.28 | 19.00 | |
| 9200.00 | 9026.63 | 90.00 | 266.68 | 7008.00 | 56.70 | 19.16 | 88.52 | 2015.89 | 1904.97 | 18.17 | |
| 9300.00 | 9126.63 | 90.00 | 266.68 | 7008.00 | 59.16 | 19.82 | 88.52 | 2015.37 | 1899.59 | 17.41 | |
| 9400.00 | 9226.63 | 90.00 | 266.68 | 7008.00 | 61.65 | 20.49 | 88.52 | 2014.86 | 1894.16 | 16.69 | |
| 9500.00 | 9326.62 | 90.00 | 266.68 | 7008.00 | 64.17 | 21.16 | 88.52 | 2014.34 | 1888.67 | 16.03 | |
| 9600.00 | 9426.62 | 90.00 | 266.68 | 7008.00 | 66.71 | 21.83 | 88.52 | 2013.83 | 1883.15 | 15.41 | |
| 9700.00 | 9526.62 | 90.00 | 266.68 | 7008.00 | 69.27 | 22.51 | 88.52 | 2013.31 | 1877.58 | 14.83 | |
| 9800.00 | 9626.62 | 90.00 | 266.68 | 7008.00 | 71.85 | 23.19 | 88.52 | 2012.80 | 1871.97 | 14.29 | |
| 9900.00 | 9726.62 | 90.00 | 266.68 | 7008.00 | 74.44 | 23.87 | 88.52 | 2012.28 | 1866.34 | 13.79 | |
| 10000.00 | 9826.62 | 90.00 | 266.68 | 7008.00 | 77.05 | 24.56 | 88.52 | 2011.77 | 1860.63 | 13.31 | |
| 10100.00 | 9926.62 | 90.00 | 266.68 | 7008.00 | 79.67 | 25.25 | 88.52 | 2011.26 | 1854.89 | 12.86 | |
| 10200.00 | 10026.61 | 90.00 | 266.68 | 7008.00 | 82.31 | 25.94 | 88.52 | 2010.74 | 1849.12 | 12.44 | |
| 10300.00 | 10126.61 | 90.00 | 266.68 | 7008.00 | 84.95 | 26.63 | 88.52 | 2010.23 | 1843.32 | 12.04 | |
| 10400.00 | 10226.61 | 90.00 | 266.68 | 7008.00 | 87.60 | 27.33 | 88.52 | 2009.71 | 1837.51 | 11.67 | |
| 10500.00 | 10326.61 | 90.00 | 266.68 | 7008.00 | 90.27 | 28.03 | 88.52 | 2009.20 | 1831.68 | 11.32 | |
| 10600.00 | 10426.61 | 90.00 | 266.68 | 7008.00 | 92.93 | 28.73 | 88.52 | 2008.68 | 1825.83 | 10.99 | |
| 10700.00 | 10526.61 | 90.00 | 266.68 | 7008.00 | 95.61 | 29.43 | 88.52 | 2008.17 | 1819.97 | 10.67 | |
| 10800.00 | 10626.61 | 90.00 | 266.68 | 7008.00 | 98.30 | 30.13 | 88.52 | 2007.65 | 1814.09 | 10.37 | |
| 10900.00 | 10726.61 | 90.00 | 266.68 | 7008.00 | 100.99 | 30.84 | 88.52 | 2007.14 | 1808.20 | 10.09 | |
| 11000.00 | 10826.60 | 90.00 | 266.68 | 7008.00 | 103.68 | 31.54 | 88.52 | 2006.62 | 1802.30 | 9.82 | |
| 11100.00 | 10926.60 | 90.00 | 266.68 | 7008.00 | 106.38 | 32.25 | 88.51 | 2006.11 | 1796.39 | 9.57 | |
| 11200.00 | 11026.60 | 90.00 | 266.68 | 7008.00 | 109.09 | 32.96 | 88.51 | 2005.59 | 1790.47 | 9.32 | |
| 11300.00 | 11126.60 | 90.00 | 266.68 | 7008.00 | 111.80 | 33.67 | 88.51 | 2005.08 | 1784.54 | 9.09 | |
| 11400.00 | 11226.60 | 90.00 | 266.68 | 7008.00 | 114.51 | 34.38 | 88.51 | 2004.56 | 1778.60 | 8.87 | |
| 11500.00 | 11326.60 | 90.00 | 266.68 | 7008.00 | 117.23 | 35.09 | 88.51 | 2004.05 | 1772.65 | 8.66 | |
| 11600.00 | 11426.60 | 90.00 | 266.68 | 7008.00 | 119.95 | 35.80 | 88.51 | 2003.54 | 1766.69 | 8.46 | |
| 11700.00 | 11526.59 | 90.00 | 266.68 | 7008.00 | 122.68 | 36.51 | 88.51 | 2003.02 | 1760.73 | 8.27 | |
| 11800.00 | 11626.59 | 90.00 | 266.68 | 7008.00 | 125.41 | 37.23 | 88.51 | 2002.51 | 1754.76 | 8.08 | |
| 11900.00 | 11726.59 | 90.00 | 266.68 | 7008.00 | 128.14 | 37.94 | 88.51 | 2001.99 | 1748.79 | 7.91 | |
| 12000.00 | 11826.59 | 90.00 | 266.68 | 7008.00 | 130.87 | 38.66 | 88.51 | 2001.48 | 1742.81 | 7.74 | |
| 12100.00 | 11926.59 | 90.00 | 266.68 | 7008.00 | 133.61 | 39.37 | 88.51 | 2000.96 | 1736.82 | 7.58 | |
| 12200.00 | 12026.59 | 90.00 | 266.68 | 7008.00 | 136.35 | 40.09 | 88.51 | 2000.45 | 1730.83 | 7.42 | |
| 12300.00 | 12126.59 | 90.00 | 266.68 | 7008.00 | 139.09 | 40.81 | 88.51 | 1999.93 | 1724.84 | 7.27 | |
| 12400.00 | 12226.59 | 90.00 | 266.68 | 7008.00 | 141.84 | 41.52 | 88.51 | 1999.42 | 1718.84 | 7.13 | |
| 12500.00 | 12326.58 | 90.00 | 266.68 | 7008.00 | 144.58 | 42.24 | 88.51 | 1998.90 | 1712.84 | 6.99 | |
| 12600.00 | 12426.58 | 90.00 | 266.68 | 7008.00 | 147.33 | 42.96 | 88.51 | 1998.39 | 1706.83 | 6.85 | |
| 12700.00 | 12526.58 | 90.00 | 266.68 | 7008.00 | 150.08 | 43.68 | 88.51 | 1997.87 | 1700.82 | 6.73 | |
| 12800.00 | 12626.58 | 90.00 | 266.68 | 7008.00 | 152.83 | 44.40 | 88.51 | 1997.36 | 1694.80 | 6.60 | |
| 12900.00 | 12726.58 | 90.00 | 266.68 | 7008.00 | 155.59 | 45.12 | 88.51 | 1996.84 | 1688.78 | 6.48 | |
| 13000.00 | 12826.58 | 90.00 | 266.68 | 7008.00 | 158.34 | 45.84 | 88.51 | 1996.33 | 1682.76 | 6.37 | |
| 13100.00 | 12926.58 | 90.00 | 266.68 | 7008.00 | 161.10 | 46.56 | 88.51 | 1995.81 | 1676.74 | 6.25 | |
| 13200.00 | 13026.57 | 90.00 | 266.68 | 7008.00 | 163.85 | 47.28 | 88.51 | 1995.30 | 1670.71 | 6.15 | |
| 13300.00 | 13126.57 | 90.00 | 266.68 | 7008.00 | 166.61 | 48.00 | 88.51 | 1994.79 | 1664.68 | 6.04 | |
| 13400.00 | 13226.57 | 90.00 | 266.68 | 7008.00 | 169.37 | 48.72 | 88.51 | 1994.27 | 1658.64 | 5.94 | |
| 13500.00 | 13326.57 | 90.00 | 266.68 | 7008.00 | 172.14 | 49.45 | 88.51 | 1993.76 | 1652.61 | 5.84 | |
| 13600.00 | 13426.57 | 90.00 | 266.68 | 7008.00 | 174.90 | 50.17 | 88.51 | 1993.24 | 1646.57 | 5.75 | |
| 13700.00 | 13526.57 | 90.00 | 266.68 | 7008.00 | 177.66 | 50.89 | 88.50 | 1992.73 | 1640.53 | 5.66 | |

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 |
| 13800.00 | 13626.57 | 90.00 | 266.68 | 7008.00 | 180.43 | 51.62 | 88.50 | 1992.21 | 1634.49 | 5.57 | |
| 13900.00 | 13726.57 | 90.00 | 266.68 | 7008.00 | 183.19 | 52.34 | 88.50 | 1991.70 | 1628.45 | 5.48 | |
| 14000.00 | 13826.56 | 90.00 | 266.68 | 7008.00 | 185.96 | 53.06 | 88.50 | 1991.18 | 1622.40 | 5.40 | |
| 14100.00 | 13926.56 | 90.00 | 266.68 | 7008.00 | 188.73 | 53.79 | 88.50 | 1990.67 | 1616.35 | 5.32 | |
| 14200.00 | 14026.56 | 90.00 | 266.68 | 7008.00 | 191.50 | 54.51 | 88.50 | 1990.15 | 1610.30 | 5.24 | |
| 14300.00 | 14126.56 | 90.00 | 266.68 | 7008.00 | 194.27 | 55.24 | 88.50 | 1989.64 | 1604.25 | 5.16 | |
| 14400.00 | 14226.56 | 90.00 | 266.68 | 7008.00 | 197.04 | 55.96 | 88.50 | 1989.12 | 1598.20 | 5.09 | |
| 14500.00 | 14326.56 | 90.00 | 266.68 | 7008.00 | 199.81 | 56.69 | 88.50 | 1988.61 | 1592.14 | 5.02 | |
| 14600.00 | 14426.56 | 90.00 | 266.68 | 7008.00 | 202.58 | 57.41 | 88.50 | 1988.09 | 1586.09 | 4.95 | |
| 14700.00 | 14526.55 | 90.00 | 266.68 | 7008.00 | 205.35 | 58.14 | 88.50 | 1987.58 | 1580.03 | 4.88 | |
| 14800.00 | 14626.55 | 90.00 | 266.68 | 7008.00 | 208.12 | 58.86 | 88.50 | 1987.07 | 1573.97 | 4.81 | |
| 14900.00 | 14726.55 | 90.00 | 266.68 | 7008.00 | 210.90 | 59.59 | 88.50 | 1986.55 | 1567.91 | 4.75 | |
| 15000.00 | 14826.55 | 90.00 | 266.68 | 7008.00 | 213.67 | 60.31 | 88.50 | 1986.04 | 1561.85 | 4.68 | |
| 15100.00 | 14926.55 | 90.00 | 266.68 | 7008.00 | 216.45 | 61.04 | 88.50 | 1985.52 | 1555.78 | 4.62 | |
| 15200.00 | 15026.55 | 90.00 | 266.68 | 7008.00 | 219.22 | 61.77 | 88.50 | 1985.01 | 1549.72 | 4.56 | |
| 15300.00 | 15126.55 | 90.00 | 266.68 | 7008.00 | 222.00 | 62.49 | 88.50 | 1984.49 | 1543.65 | 4.50 | |
| 15400.00 | 15226.55 | 90.00 | 266.68 | 7008.00 | 224.78 | 63.22 | 88.50 | 1983.98 | 1537.59 | 4.44 | |
| 15500.00 | 15326.54 | 90.00 | 266.68 | 7008.00 | 227.55 | 63.95 | 88.50 | 1983.46 | 1531.52 | 4.39 | |
| 15600.00 | 15426.54 | 90.00 | 266.68 | 7008.00 | 230.33 | 64.67 | 88.50 | 1982.95 | 1525.45 | 4.33 | |
| 15700.00 | 15501.26 | 90.00 | 266.68 | 7008.00 | 232.41 | 65.22 | 88.50 | 1982.59 | 1520.47 | 4.29 | |
| 15768.80 | 15501.26 | 90.00 | 266.68 | 7008.00 | 232.41 | 65.22 | 88.50 | 1984.31 | 1521.25 | 4.29 | |
| 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 | 0.05 | 160.30 | 159.57 | 218.59 | |
| 100.00 | 100.00 | 0.00 | 0.00 | 100.00 | 0.11 | 0.11 | 0.05 | 160.30 | 159.34 | 168.04 | |
| 200.00 | 200.00 | 0.00 | 0.00 | 200.00 | 0.34 | 0.34 | 0.05 | 160.30 | 158.90 | 114.21 | |
| 300.00 | 300.00 | 0.00 | 0.00 | 300.00 | 0.56 | 0.56 | 0.05 | 160.30 | 158.45 | 86.50 | |
| 400.00 | 399.98 | 0.00 | 0.00 | 399.98 | 0.79 | 0.79 | 215.59 | 161.72 | 159.44 | 70.94 | |
| 500.00 | 499.84 | 0.00 | 0.00 | 499.84 | 1.01 | 1.01 | 214.58 | 166.00 | 163.29 | 61.32 | |
| 600.00 | 599.45 | 0.00 | 0.00 | 599.45 | 1.24 | 1.24 | 213.03 | 173.25 | 170.10 | 54.96 | |
| 700.00 | 698.70 | 0.00 | 0.00 | 698.70 | 1.46 | 1.46 | 211.07 | 183.60 | 179.99 | 50.86 | |
| 800.00 | 797.47 | 0.00 | 0.00 | 797.47 | 1.68 | 1.68 | 208.86 | 197.20 | 193.11 | 48.20 | |
| 900.00 | 895.62 | 0.00 | 0.00 | 895.62 | 1.90 | 1.90 | 206.56 | 214.16 | 209.58 | 46.75 | |
| 1000.00 | 993.06 | 0.00 | 0.00 | 993.06 | 2.12 | 2.12 | 204.28 | 234.58 | 229.50 | 46.19 | |
| 1100.00 | 1089.64 | 0.00 | 0.00 | 1089.64 | 2.34 | 2.34 | 202.12 | 258.50 | 252.91 | 46.30 | |
| 1200.00 | 1185.27 | 0.00 | 0.00 | 1185.27 | 2.55 | 2.55 | 200.12 | 285.93 | 279.84 | 46.96 | |
| 1300.00 | 1279.82 | 0.00 | 0.00 | 1279.82 | 2.76 | 2.76 | 198.31 | 316.85 | 310.25 | 48.00 | |
| 1400.00 | 1373.37 | 0.00 | 0.00 | 1373.37 | 2.97 | 2.97 | 196.59 | 350.74 | 343.62 | 49.27 | |
| 1500.00 | 1468.11 | 0.36 | 100.92 | 1468.11 | 3.18 | 3.18 | 195.07 | 385.17 | 377.54 | 50.47 | |
| 1600.00 | 1569.96 | 2.40 | 100.92 | 1569.92 | 3.39 | 3.38 | 194.00 | 418.57 | 410.44 | 51.48 | |
| 1700.00 | 1673.52 | 4.47 | 100.92 | 1673.30 | 3.60 | 3.58 | 193.50 | 450.17 | 441.53 | 52.13 | |
| 1800.00 | 1778.57 | 6.57 | 100.92 | 1777.85 | 3.82 | 3.78 | 193.45 | 479.83 | 470.64 | 52.19 | |
| 1900.00 | 1884.85 | 8.70 | 100.92 | 1883.19 | 4.08 | 3.99 | 193.79 | 507.53 | 497.74 | 51.85 | |
| 2000.00 | 1992.09 | 10.84 | 100.92 | 1988.86 | 4.36 | 4.20 | 194.47 | 533.26 | 522.83 | 51.13 | |
| 2100.00 | 2099.99 | 13.00 | 100.92 | 2094.43 | 4.69 | 4.41 | 195.44 | 557.09 | 545.96 | 50.03 | |
| 2200.00 | 2208.25 | 15.16 | 100.92 | 2199.43 | 5.09 | 4.63 | 196.67 | 579.13 | 567.19 | 48.50 | |
| 2300.00 | 2314.22 | 16.88 | 100.92 | 2301.19 | 5.54 | 4.86 | 198.11 | 599.57 | 586.76 | 46.79 | |
| 2400.00 | 2411.17 | 16.88 | 100.92 | 2393.97 | 6.00 | 5.09 | 199.43 | 619.74 | 606.06 | 45.31 | |
| 2500.00 | 2508.12 | 16.88 | 100.92 | 2486.74 | 6.48 | 5.33 | 200.67 | 640.21 | 625.61 | 43.85 | |
| 2600.00 | 2605.07 | 16.88 | 100.92 | 2579.51 | 6.97 | 5.58 | 201.83 | 660.96 | 645.36 | 42.39 | |
| 2700.00 | 2702.02 | 16.88 | 100.92 | 2672.28 | 7.49 | 5.83 | 202.93 | 681.95 | 665.34 | 41.06 | |
| 2800.00 | 2798.98 | 16.88 | 100.92 | 2765.05 | 8.02 | 6.08 | 203.96 | 703.17 | 685.53 | 39.86 | |
| 2900.00 | 2895.93 | 16.88 | 100.92 | 2857.83 | 8.56 | 6.34 | 204.93 | 724.61 | 705.92 | 38.77 | |
| 3000.00 | 2992.88 | 16.88 | 100.92 | 2950.60 | 9.10 | 6.60 | 205.84 | 746.22 | 726.48 | 37.80 | |
| 3100.00 | 3089.83 | 16.88 | 100.92 | 3043.37 | 9.66 | 6.87 | 206.70 | 768.02 | 747.21 | 36.91 | |
| 3200.00 | 3186.78 | 16.88 | 100.92 | 3136.14 | 10.22 | 7.13 | 207.52 | 789.97 | 768.09 | 36.10 | |

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 |
| 3300.00 | 3283.73 | 16.88 | 100.92 | 3228.91 | 10.78 | 7.40 | 208.29 | 812.07 | 789.06 | 35.29 | |
| 3400.00 | 3380.68 | 16.88 | 100.92 | 3321.69 | 11.35 | 7.67 | 209.02 | 834.30 | 810.15 | 34.54 | |
| 3500.00 | 3477.63 | 16.88 | 100.92 | 3414.46 | 11.92 | 7.94 | 209.72 | 856.66 | 831.35 | 33.85 | |
| 3600.00 | 3574.58 | 16.88 | 100.92 | 3507.23 | 12.50 | 8.22 | 210.38 | 879.13 | 852.67 | 33.23 | |
| 3700.00 | 3671.53 | 16.88 | 100.92 | 3600.00 | 13.07 | 8.49 | 211.00 | 901.71 | 874.09 | 32.65 | |
| 3800.00 | 3768.48 | 16.88 | 100.92 | 3692.77 | 13.66 | 8.77 | 211.60 | 924.38 | 895.60 | 32.12 | |
| 3900.00 | 3865.43 | 16.88 | 100.92 | 3785.55 | 14.24 | 9.05 | 212.17 | 947.15 | 917.20 | 31.63 | |
| 4000.00 | 3962.38 | 16.88 | 100.92 | 3878.32 | 14.82 | 9.33 | 212.71 | 970.00 | 938.89 | 31.18 | |
| 4100.00 | 4059.34 | 16.88 | 100.92 | 3971.09 | 15.41 | 9.61 | 213.23 | 992.93 | 960.65 | 30.76 | |
| 4200.00 | 4156.29 | 16.88 | 100.92 | 4063.86 | 16.00 | 9.89 | 213.72 | 1015.93 | 982.49 | 30.37 | |
| 4300.00 | 4253.24 | 16.88 | 100.92 | 4156.63 | 16.59 | 10.17 | 214.19 | 1039.01 | 1004.39 | 30.01 | |
| 4400.00 | 4350.19 | 16.88 | 100.92 | 4249.41 | 17.18 | 10.45 | 214.64 | 1062.14 | 1026.35 | 29.68 | |
| 4500.00 | 4447.14 | 16.88 | 100.92 | 4342.18 | 17.77 | 10.74 | 215.07 | 1085.34 | 1048.38 | 29.36 | |
| 4600.00 | 4544.09 | 16.88 | 100.92 | 4434.95 | 18.36 | 11.02 | 215.49 | 1108.60 | 1070.44 | 29.06 | |
| 4700.00 | 4641.04 | 16.88 | 100.92 | 4527.72 | 18.95 | 11.31 | 215.89 | 1131.90 | 1092.55 | 28.76 | |
| 4800.00 | 4737.99 | 16.88 | 100.92 | 4620.49 | 19.55 | 11.59 | 216.27 | 1155.26 | 1114.70 | 28.49 | |
| 4900.00 | 4834.94 | 16.88 | 100.92 | 4713.27 | 20.14 | 11.88 | 216.63 | 1178.66 | 1136.90 | 28.22 | |
| 5000.00 | 4931.89 | 16.88 | 100.92 | 4806.04 | 20.74 | 12.16 | 216.99 | 1202.11 | 1159.14 | 27.98 | |
| 5100.00 | 5028.84 | 16.88 | 100.92 | 4898.81 | 21.33 | 12.45 | 217.32 | 1225.59 | 1181.43 | 27.75 | |
| 5200.00 | 5125.79 | 16.88 | 100.92 | 4991.58 | 21.93 | 12.74 | 217.65 | 1249.12 | 1203.75 | 27.53 | |
| 5300.00 | 5222.74 | 16.88 | 100.92 | 5084.36 | 22.52 | 13.02 | 217.96 | 1272.69 | 1226.11 | 27.32 | |
| 5400.00 | 5319.69 | 16.88 | 100.92 | 5177.13 | 23.12 | 13.31 | 218.27 | 1296.29 | 1248.50 | 27.13 | |
| 5500.00 | 5416.65 | 16.88 | 100.92 | 5269.90 | 23.72 | 13.60 | 218.56 | 1319.92 | 1270.93 | 26.94 | |
| 5600.00 | 5513.60 | 16.88 | 100.92 | 5362.67 | 24.32 | 13.89 | 218.84 | 1343.58 | 1293.38 | 26.77 | |
| 5700.00 | 5610.55 | 16.88 | 100.92 | 5455.44 | 24.92 | 14.18 | 219.11 | 1367.27 | 1315.87 | 26.60 | |
| 5800.00 | 5707.50 | 16.88 | 100.92 | 5548.22 | 25.52 | 14.47 | 219.37 | 1391.00 | 1338.39 | 26.44 | |
| 5900.00 | 5804.45 | 16.88 | 100.92 | 5640.99 | 26.11 | 14.75 | 219.63 | 1414.74 | 1360.93 | 26.29 | |
| 6000.00 | 5901.40 | 16.88 | 100.92 | 5733.76 | 26.71 | 15.04 | 219.87 | 1438.52 | 1383.50 | 26.15 | |
| 6100.00 | 5998.35 | 16.88 | 100.92 | 5826.53 | 27.31 | 15.33 | 220.11 | 1462.31 | 1406.09 | 26.01 | |
| 6200.00 | 6097.15 | 16.23 | 101.51 | 5921.09 | 27.92 | 15.63 | 220.34 | 1486.13 | 1428.68 | 25.87 | |
| 6300.00 | 6222.00 | 7.05 | 122.72 | 6043.28 | 28.30 | 15.83 | 220.15 | 1508.94 | 1450.53 | 25.83 | |
| 6400.00 | 6342.60 | 5.67 | 220.98 | 6163.42 | 28.37 | 15.60 | 219.19 | 1530.17 | 1471.41 | 26.04 | |
| 6500.00 | 6453.01 | 13.38 | 249.70 | 6272.27 | 28.22 | 15.03 | 217.70 | 1550.56 | 1491.96 | 26.46 | |
| 6600.00 | 6550.00 | 20.90 | 256.42 | 6364.91 | 27.97 | 14.28 | 215.95 | 1571.18 | 1513.11 | 27.06 | |
| 6700.00 | 6635.96 | 27.67 | 259.38 | 6443.21 | 27.68 | 13.44 | 194.94 | 1593.37 | 1536.02 | 27.79 | |
| 6800.00 | 6717.09 | 34.09 | 261.16 | 6512.81 | 27.40 | 12.54 | 166.86 | 1617.53 | 1560.95 | 28.59 | |
| 6900.00 | 6794.66 | 40.25 | 262.38 | 6574.59 | 27.13 | 11.62 | 142.41 | 1642.92 | 1587.13 | 29.45 | |
| 7000.00 | 6869.50 | 46.21 | 263.30 | 6629.09 | 26.93 | 10.73 | 124.92 | 1668.74 | 1613.70 | 30.32 | |
| 7100.00 | 6942.25 | 52.00 | 264.03 | 6676.70 | 26.80 | 9.93 | 112.81 | 1694.25 | 1639.81 | 31.12 | |
| 7200.00 | 7013.38 | 57.67 | 264.64 | 6717.65 | 26.74 | 9.29 | 104.13 | 1718.73 | 1664.73 | 31.83 | |
| 7300.00 | 7083.24 | 63.24 | 265.17 | 6752.08 | 26.81 | 8.85 | 97.68 | 1741.52 | 1687.74 | 32.39 | |
| 7400.00 | 7152.11 | 68.73 | 265.64 | 6780.10 | 27.00 | 8.69 | 92.77 | 1762.03 | 1708.21 | 32.74 | |
| 7500.00 | 7220.20 | 74.17 | 266.08 | 6801.75 | 27.28 | 8.81 | 89.04 | 1779.76 | 1725.56 | 32.83 | |
| 7600.00 | 7287.67 | 79.55 | 266.49 | 6817.09 | 27.68 | 9.22 | 86.26 | 1794.30 | 1739.35 | 32.66 | |
| 7700.00 | 7354.64 | 84.89 | 266.88 | 6826.15 | 28.20 | 9.86 | 84.30 | 1805.28 | 1749.26 | 32.22 | |
| 7800.00 | 7422.49 | 90.00 | 267.24 | 6829.00 | 28.79 | 10.66 | 83.08 | 1812.46 | 1755.00 | 31.54 | |
| 7900.00 | 7522.32 | 90.00 | 267.24 | 6829.00 | 29.86 | 11.14 | 82.69 | 1814.80 | 1755.54 | 30.62 | |
| 8000.00 | 7622.32 | 90.00 | 267.24 | 6829.00 | 31.13 | 11.64 | 82.69 | 1815.26 | 1753.84 | 29.56 | |
| 8100.00 | 7722.32 | 90.00 | 267.24 | 6829.00 | 32.59 | 12.17 | 82.69 | 1815.73 | 1751.63 | 28.33 | |
| 8200.00 | 7822.32 | 90.00 | 267.24 | 6829.00 | 34.22 | 12.72 | 82.69 | 1816.19 | 1749.07 | 27.06 | |
| 8300.00 | 7922.32 | 90.00 | 267.24 | 6829.00 | 35.99 | 13.29 | 82.69 | 1816.66 | 1746.23 | 25.79 | |
| 8400.00 | 8022.32 | 90.00 | 267.24 | 6829.00 | 37.89 | 13.87 | 82.70 | 1817.13 | 1743.13 | 24.56 | |
| 8500.00 | 8122.32 | 90.00 | 267.24 | 6829.00 | 39.89 | 14.46 | 82.70 | 1817.59 | 1739.82 | 23.37 | |
| 8600.00 | 8222.31 | 90.00 | 267.24 | 6829.00 | 41.99 | 15.07 | 82.70 | 1818.06 | 1736.28 | 22.23 | |
| 8700.00 | 8322.31 | 90.00 | 267.24 | 6829.00 | 44.16 | 15.69 | 82.70 | 1818.52 | 1732.58 | 21.16 | |
| 8800.00 | 8422.31 | 90.00 | 267.24 | 6829.00 | 46.40 | 16.32 | 82.70 | 1818.99 | 1728.73 | 20.15 | |
| 8900.00 | 8522.31 | 90.00 | 267.24 | 6829.00 | 48.70 | 16.96 | 82.71 | 1819.45 | 1724.91 | 19.24 | |
| 9000.00 | 8622.31 | 90.00 | 267.24 | 6829.00 | 51.05 | 17.60 | 82.71 | 1819.92 | 1720.73 | 18.35 | |

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 |
| 9100.00 | 8722.31 | 90.00 | 267.24 | 6829.00 | 53.44 | 18.25 | 82.71 | 1820.39 | 1716.53 | 17.53 | |
| 9200.00 | 8822.31 | 90.00 | 267.24 | 6829.00 | 55.87 | 18.91 | 82.71 | 1820.85 | 1712.27 | 16.77 | |
| 9300.00 | 8922.31 | 90.00 | 267.24 | 6829.00 | 58.34 | 19.58 | 82.71 | 1821.32 | 1707.94 | 16.06 | |
| 9400.00 | 9022.31 | 90.00 | 267.24 | 6829.00 | 60.83 | 20.24 | 82.72 | 1821.78 | 1703.52 | 15.40 | |
| 9500.00 | 9122.30 | 90.00 | 267.24 | 6829.00 | 63.35 | 20.91 | 82.72 | 1822.25 | 1699.04 | 14.79 | |
| 9600.00 | 9222.30 | 90.00 | 267.24 | 6829.00 | 65.89 | 21.59 | 82.72 | 1822.71 | 1694.52 | 14.22 | |
| 9700.00 | 9322.30 | 90.00 | 267.24 | 6829.00 | 68.45 | 22.27 | 82.72 | 1823.18 | 1689.96 | 13.69 | |
| 9800.00 | 9422.30 | 90.00 | 267.24 | 6829.00 | 71.03 | 22.95 | 82.72 | 1823.65 | 1685.36 | 13.19 | |
| 9900.00 | 9522.30 | 90.00 | 267.24 | 6829.00 | 73.63 | 23.64 | 82.72 | 1824.11 | 1680.72 | 12.72 | |
| 10000.00 | 9622.30 | 90.00 | 267.24 | 6829.00 | 76.24 | 24.33 | 82.73 | 1824.58 | 1676.06 | 12.29 | |
| 10100.00 | 9722.30 | 90.00 | 267.24 | 6829.00 | 78.86 | 25.02 | 82.73 | 1825.04 | 1671.37 | 11.88 | |
| 10200.00 | 9822.30 | 90.00 | 267.24 | 6829.00 | 81.50 | 25.71 | 82.73 | 1825.51 | 1666.66 | 11.49 | |
| 10300.00 | 9922.30 | 90.00 | 267.24 | 6829.00 | 84.14 | 26.41 | 82.73 | 1825.97 | 1661.92 | 11.13 | |
| 10400.00 | 10022.29 | 90.00 | 267.24 | 6829.00 | 86.80 | 27.11 | 82.73 | 1826.44 | 1657.12 | 10.79 | |
| 10500.00 | 10122.29 | 90.00 | 267.24 | 6829.00 | 89.46 | 27.81 | 82.74 | 1826.91 | 1652.30 | 10.46 | |
| 10600.00 | 10222.29 | 90.00 | 267.24 | 6829.00 | 92.13 | 28.51 | 82.74 | 1827.37 | 1647.46 | 10.16 | |
| 10700.00 | 10322.29 | 90.00 | 267.24 | 6829.00 | 94.81 | 29.21 | 82.74 | 1827.84 | 1642.61 | 9.87 | |
| 10800.00 | 10422.29 | 90.00 | 267.24 | 6829.00 | 97.50 | 29.92 | 82.74 | 1828.30 | 1637.74 | 9.59 | |
| 10900.00 | 10522.29 | 90.00 | 267.24 | 6829.00 | 100.19 | 30.62 | 82.74 | 1828.77 | 1632.87 | 9.34 | |
| 11000.00 | 10622.29 | 90.00 | 267.24 | 6829.00 | 102.89 | 31.33 | 82.75 | 1829.23 | 1627.98 | 9.09 | |
| 11100.00 | 10722.29 | 90.00 | 267.24 | 6829.00 | 105.60 | 32.04 | 82.75 | 1829.70 | 1623.08 | 8.86 | |
| 11200.00 | 10822.29 | 90.00 | 267.24 | 6829.00 | 108.31 | 32.75 | 82.75 | 1830.17 | 1618.17 | 8.63 | |
| 11300.00 | 10922.28 | 90.00 | 267.24 | 6829.00 | 111.02 | 33.46 | 82.75 | 1830.63 | 1613.25 | 8.42 | |
| 11400.00 | 11022.28 | 90.00 | 267.24 | 6829.00 | 113.74 | 34.17 | 82.75 | 1831.10 | 1608.33 | 8.22 | |
| 11500.00 | 11122.28 | 90.00 | 267.24 | 6829.00 | 116.46 | 34.88 | 82.75 | 1831.56 | 1603.39 | 8.03 | |
| 11600.00 | 11222.28 | 90.00 | 267.24 | 6829.00 | 119.18 | 35.59 | 82.76 | 1832.03 | 1598.45 | 7.84 | |
| 11700.00 | 11322.28 | 90.00 | 267.24 | 6829.00 | 121.91 | 36.31 | 82.76 | 1832.49 | 1593.50 | 7.67 | |
| 11800.00 | 11422.28 | 90.00 | 267.24 | 6829.00 | 124.64 | 37.02 | 82.76 | 1832.96 | 1588.55 | 7.50 | |
| 11900.00 | 11522.28 | 90.00 | 267.24 | 6829.00 | 127.38 | 37.74 | 82.76 | 1833.43 | 1583.59 | 7.34 | |
| 12000.00 | 11622.28 | 90.00 | 267.24 | 6829.00 | 130.12 | 38.45 | 82.76 | 1833.89 | 1578.62 | 7.18 | |
| 12100.00 | 11722.28 | 90.00 | 267.24 | 6829.00 | 132.86 | 39.17 | 82.77 | 1834.36 | 1573.65 | 7.04 | |
| 12200.00 | 11822.27 | 90.00 | 267.24 | 6829.00 | 135.60 | 39.89 | 82.77 | 1834.82 | 1568.67 | 6.89 | |
| 12300.00 | 11922.27 | 90.00 | 267.24 | 6829.00 | 138.34 | 40.60 | 82.77 | 1835.29 | 1563.69 | 6.76 | |
| 12400.00 | 12022.27 | 90.00 | 267.24 | 6829.00 | 141.09 | 41.32 | 82.77 | 1835.75 | 1558.71 | 6.63 | |
| 12500.00 | 12122.27 | 90.00 | 267.24 | 6829.00 | 143.84 | 42.04 | 82.77 | 1836.22 | 1553.72 | 6.50 | |
| 12600.00 | 12222.27 | 90.00 | 267.24 | 6829.00 | 146.59 | 42.76 | 82.77 | 1836.69 | 1548.72 | 6.38 | |
| 12700.00 | 12322.27 | 90.00 | 267.24 | 6829.00 | 149.35 | 43.48 | 82.78 | 1837.15 | 1543.73 | 6.26 | |
| 12800.00 | 12422.27 | 90.00 | 267.24 | 6829.00 | 152.10 | 44.20 | 82.78 | 1837.62 | 1538.73 | 6.15 | |
| 12900.00 | 12522.27 | 90.00 | 267.24 | 6829.00 | 154.86 | 44.92 | 82.78 | 1838.08 | 1533.72 | 6.04 | |
| 13000.00 | 12622.27 | 90.00 | 267.24 | 6829.00 | 157.62 | 45.64 | 82.78 | 1838.55 | 1528.71 | 5.93 | |
| 13100.00 | 12722.26 | 90.00 | 267.24 | 6829.00 | 160.37 | 46.36 | 82.78 | 1839.02 | 1523.70 | 5.83 | |
| 13200.00 | 12822.26 | 90.00 | 267.24 | 6829.00 | 163.14 | 47.09 | 82.79 | 1839.48 | 1518.69 | 5.73 | |
| 13300.00 | 12922.26 | 90.00 | 267.24 | 6829.00 | 165.90 | 47.81 | 82.79 | 1839.95 | 1513.68 | 5.64 | |
| 13400.00 | 13022.26 | 90.00 | 267.24 | 6829.00 | 168.66 | 48.53 | 82.79 | 1840.41 | 1508.66 | 5.55 | |
| 13500.00 | 13122.26 | 90.00 | 267.24 | 6829.00 | 171.43 | 49.25 | 82.79 | 1840.88 | 1503.64 | 5.46 | |
| 13600.00 | 13222.26 | 90.00 | 267.24 | 6829.00 | 174.19 | 49.98 | 82.79 | 1841.34 | 1498.61 | 5.37 | |
| 13700.00 | 13322.26 | 90.00 | 267.24 | 6829.00 | 176.96 | 50.70 | 82.79 | 1841.81 | 1493.59 | 5.29 | |
| 13800.00 | 13422.26 | 90.00 | 267.24 | 6829.00 | 179.73 | 51.42 | 82.80 | 1842.28 | 1488.56 | 5.21 | |
| 13900.00 | 13522.26 | 90.00 | 267.24 | 6829.00 | 182.50 | 52.15 | 82.80 | 1842.74 | 1483.53 | 5.13 | |
| 14000.00 | 13622.25 | 90.00 | 267.24 | 6829.00 | 185.27 | 52.87 | 82.80 | 1843.21 | 1478.50 | 5.05 | |
| 14100.00 | 13722.25 | 90.00 | 267.24 | 6829.00 | 188.04 | 53.60 | 82.80 | 1843.67 | 1473.47 | 4.98 | |
| 14200.00 | 13822.25 | 90.00 | 267.24 | 6829.00 | 190.81 | 54.32 | 82.80 | 1844.14 | 1468.43 | 4.91 | |
| 14300.00 | 13922.25 | 90.00 | 267.24 | 6829.00 | 193.58 | 55.05 | 82.81 | 1844.60 | 1463.40 | 4.84 | |
| 14400.00 | 14022.25 | 90.00 | 267.24 | 6829.00 | 196.35 | 55.77 | 82.81 | 1845.07 | 1458.36 | 4.77 | |
| 14500.00 | 14122.25 | 90.00 | 267.24 | 6829.00 | 199.13 | 56.50 | 82.81 | 1845.54 | 1453.32 | 4.71 | |
| 14600.00 | 14222.25 | 90.00 | 267.24 | 6829.00 | 201.90 | 57.22 | 82.81 | 1846.00 | 1448.28 | 4.64 | |
| 14700.00 | 14322.25 | 90.00 | 267.24 | 6829.00 | 204.68 | 57.95 | 82.81 | 1846.47 | 1443.23 | 4.58 | |
| 14800.00 | 14422.25 | 90.00 | 267.24 | 6829.00 | 207.45 | 58.68 | 82.81 | 1846.93 | 1438.19 | 4.52 | |

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 |
| 14900.00 | 14522.24 | 90.00 | 267.24 | 6829.00 | 210.23 | 59.40 | 82.82 | 1847.40 | 1433.14 | 4.46 | |
| 15000.00 | 14622.24 | 90.00 | 267.24 | 6829.00 | 213.01 | 60.13 | 82.82 | 1847.87 | 1428.10 | 4.40 | |
| 15100.00 | 14722.24 | 90.00 | 267.24 | 6829.00 | 215.79 | 60.85 | 82.82 | 1848.33 | 1423.05 | 4.35 | |
| 15200.00 | 14822.24 | 90.00 | 267.24 | 6829.00 | 218.57 | 61.58 | 82.82 | 1848.80 | 1418.00 | 4.29 | |
| 15300.00 | 14922.24 | 90.00 | 267.24 | 6829.00 | 221.34 | 62.31 | 82.82 | 1849.26 | 1412.95 | 4.24 | |
| 15400.00 | 15022.24 | 90.00 | 267.24 | 6829.00 | 224.12 | 63.04 | 82.83 | 1849.73 | 1407.90 | 4.19 | |
| 15500.00 | 15122.24 | 90.00 | 267.24 | 6829.00 | 226.90 | 63.76 | 82.83 | 1850.19 | 1402.85 | 4.14 | |
| 15600.00 | 15222.24 | 90.00 | 267.24 | 6829.00 | 229.69 | 64.49 | 82.83 | 1850.66 | 1397.79 | 4.09 | |
| 15700.00 | 15322.07 | 90.00 | 267.24 | 6829.00 | 232.46 | 65.22 | 82.83 | 1851.13 | 1392.74 | 4.04 | |
| 15768.80 | 15322.07 | 90.00 | 267.24 | 6829.00 | 232.46 | 65.22 | 82.83 | 1852.73 | 1393.44 | 4.03 | |

| 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 | 0.01 | 140.26 | 139.53 | 191.27 | |
| 100.00 | 100.00 | 0.00 | 0.00 | 100.00 | 0.11 | 0.11 | 0.01 | 140.26 | 139.31 | 147.03 | |
| 200.00 | 200.00 | 0.00 | 0.00 | 200.00 | 0.34 | 0.34 | 0.01 | 140.26 | 138.86 | 99.94 | |
| 300.00 | 300.00 | 0.00 | 0.00 | 300.00 | 0.56 | 0.56 | 0.01 | 140.26 | 138.41 | 75.69 | |
| 400.00 | 399.98 | 0.00 | 0.00 | 399.98 | 0.79 | 0.79 | 215.49 | 141.68 | 139.40 | 62.15 | |
| 500.00 | 499.84 | 0.00 | 0.00 | 499.84 | 1.01 | 1.01 | 214.35 | 145.97 | 143.26 | 53.93 | |
| 600.00 | 599.45 | 0.00 | 0.00 | 599.45 | 1.24 | 1.24 | 212.59 | 153.25 | 150.10 | 48.63 | |
| 700.00 | 698.70 | 0.00 | 0.00 | 698.70 | 1.46 | 1.46 | 210.40 | 163.67 | 160.05 | 45.32 | |
| 800.00 | 797.47 | 0.00 | 0.00 | 797.47 | 1.68 | 1.68 | 207.98 | 177.37 | 173.27 | 43.34 | |
| 900.00 | 895.62 | 0.00 | 0.00 | 895.62 | 1.90 | 1.90 | 205.50 | 194.47 | 189.89 | 42.48 | |
| 1000.00 | 993.06 | 0.00 | 0.00 | 993.06 | 2.12 | 2.12 | 203.09 | 215.07 | 210.00 | 42.43 | |
| 1100.00 | 1089.64 | 0.00 | 0.00 | 1089.64 | 2.34 | 2.34 | 200.85 | 239.19 | 233.61 | 42.91 | |
| 1200.00 | 1185.27 | 0.00 | 0.00 | 1185.27 | 2.55 | 2.55 | 198.81 | 266.83 | 260.75 | 43.92 | |
| 1300.00 | 1279.82 | 0.00 | 0.00 | 1279.82 | 2.76 | 2.76 | 196.99 | 297.97 | 291.38 | 45.22 | |
| 1400.00 | 1379.17 | 1.58 | 107.85 | 1379.16 | 2.97 | 2.97 | 195.35 | 331.43 | 324.33 | 46.72 | |
| 1500.00 | 1481.77 | 3.64 | 107.85 | 1481.65 | 3.18 | 3.17 | 194.35 | 363.27 | 355.66 | 47.73 | |
| 1600.00 | 1586.16 | 5.72 | 107.85 | 1585.68 | 3.39 | 3.37 | 193.93 | 392.95 | 384.81 | 48.27 | |
| 1700.00 | 1692.10 | 7.84 | 107.85 | 1690.87 | 3.63 | 3.57 | 193.99 | 420.36 | 411.67 | 48.36 | |
| 1800.00 | 1799.33 | 9.99 | 107.85 | 1796.80 | 3.91 | 3.78 | 194.45 | 445.44 | 436.14 | 47.90 | |
| 1900.00 | 1907.57 | 12.15 | 107.85 | 1903.03 | 4.23 | 3.99 | 195.24 | 468.22 | 458.27 | 47.04 | |
| 2000.00 | 2016.52 | 14.33 | 107.85 | 2009.08 | 4.61 | 4.22 | 196.35 | 488.77 | 478.07 | 45.70 | |
| 2100.00 | 2124.57 | 16.27 | 107.85 | 2113.24 | 5.05 | 4.44 | 197.72 | 507.20 | 495.67 | 43.98 | |
| 2200.00 | 2222.31 | 16.27 | 107.85 | 2207.07 | 5.50 | 4.68 | 199.00 | 524.98 | 512.60 | 42.42 | |
| 2300.00 | 2320.06 | 16.27 | 107.85 | 2300.89 | 5.98 | 4.92 | 200.19 | 543.00 | 529.76 | 41.00 | |
| 2400.00 | 2417.80 | 16.27 | 107.85 | 2394.72 | 6.47 | 5.17 | 201.31 | 561.24 | 547.10 | 39.68 | |
| 2500.00 | 2515.54 | 16.27 | 107.85 | 2488.54 | 6.97 | 5.42 | 202.36 | 579.68 | 564.57 | 38.38 | |
| 2600.00 | 2613.28 | 16.27 | 107.85 | 2582.37 | 7.49 | 5.67 | 203.35 | 598.29 | 582.21 | 37.21 | |
| 2700.00 | 2711.02 | 16.27 | 107.85 | 2676.20 | 8.02 | 5.93 | 204.27 | 617.07 | 599.98 | 36.11 | |
| 2800.00 | 2808.76 | 16.27 | 107.85 | 2770.02 | 8.56 | 6.19 | 205.15 | 635.99 | 617.88 | 35.11 | |
| 2900.00 | 2906.51 | 16.27 | 107.85 | 2863.85 | 9.11 | 6.45 | 205.97 | 655.05 | 635.90 | 34.21 | |
| 3000.00 | 3004.25 | 16.27 | 107.85 | 2957.67 | 9.66 | 6.72 | 206.74 | 674.23 | 654.04 | 33.39 | |
| 3100.00 | 3101.99 | 16.27 | 107.85 | 3051.50 | 10.21 | 6.99 | 207.48 | 693.53 | 672.28 | 32.64 | |
| 3200.00 | 3199.73 | 16.27 | 107.85 | 3145.32 | 10.77 | 7.26 | 208.17 | 712.93 | 690.59 | 31.91 | |
| 3300.00 | 3297.47 | 16.27 | 107.85 | 3239.15 | 11.33 | 7.53 | 208.83 | 732.43 | 708.99 | 31.25 | |
| 3400.00 | 3395.21 | 16.27 | 107.85 | 3332.98 | 11.90 | 7.81 | 209.45 | 752.01 | 727.47 | 30.64 | |
| 3500.00 | 3492.96 | 16.27 | 107.85 | 3426.80 | 12.46 | 8.08 | 210.04 | 771.68 | 746.03 | 30.09 | |
| 3600.00 | 3590.70 | 16.27 | 107.85 | 3520.63 | 13.03 | 8.36 | 210.60 | 791.42 | 764.66 | 29.57 | |
| 3700.00 | 3688.44 | 16.27 | 107.85 | 3614.45 | 13.60 | 8.64 | 211.14 | 811.23 | 783.35 | 29.10 | |
| 3800.00 | 3786.18 | 16.27 | 107.85 | 3708.28 | 14.18 | 8.92 | 211.65 | 831.11 | 802.11 | 28.67 | |
| 3900.00 | 3883.92 | 16.27 | 107.85 | 3802.11 | 14.75 | 9.20 | 212.13 | 851.04 | 820.93 | 28.26 | |
| 4000.00 | 3981.66 | 16.27 | 107.85 | 3895.93 | 15.33 | 9.48 | 212.60 | 871.04 | 839.80 | 27.89 | |
| 4100.00 | 4079.41 | 16.27 | 107.85 | 3989.76 | 15.90 | 9.76 | 213.04 | 891.08 | 858.71 | 27.52 | |
| 4200.00 | 4177.15 | 16.27 | 107.85 | 4083.58 | 16.48 | 10.04 | 213.46 | 911.18 | 877.66 | 27.18 | |
| 4300.00 | 4274.89 | 16.27 | 107.85 | 4177.41 | 17.06 | 10.32 | 213.87 | 931.32 | 896.65 | 26.87 | |

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 |
| 4400.00 | 4372.63 | 16.27 | 107.85 | 4271.24 | 17.64 | 10.60 | 214.26 | 951.50 | 915.69 | 26.57 | |
| 4500.00 | 4470.37 | 16.27 | 107.85 | 4365.06 | 18.22 | 10.89 | 214.63 | 971.73 | 934.77 | 26.29 | |
| 4600.00 | 4568.11 | 16.27 | 107.85 | 4458.89 | 18.80 | 11.17 | 214.99 | 991.99 | 953.88 | 26.03 | |
| 4700.00 | 4665.86 | 16.27 | 107.85 | 4552.71 | 19.38 | 11.46 | 215.33 | 1012.29 | 973.02 | 25.78 | |
| 4800.00 | 4763.60 | 16.27 | 107.85 | 4646.54 | 19.96 | 11.74 | 215.66 | 1032.62 | 992.17 | 25.53 | |
| 4900.00 | 4861.34 | 16.27 | 107.85 | 4740.36 | 20.55 | 12.03 | 215.97 | 1052.98 | 1011.36 | 25.30 | |
| 5000.00 | 4959.08 | 16.27 | 107.85 | 4834.19 | 21.13 | 12.31 | 216.28 | 1073.37 | 1030.58 | 25.08 | |
| 5100.00 | 5056.82 | 16.27 | 107.85 | 4928.02 | 21.71 | 12.60 | 216.57 | 1093.79 | 1049.82 | 24.87 | |
| 5200.00 | 5154.56 | 16.27 | 107.85 | 5021.84 | 22.30 | 12.89 | 216.85 | 1114.24 | 1069.09 | 24.68 | |
| 5300.00 | 5252.31 | 16.27 | 107.85 | 5115.67 | 22.88 | 13.17 | 217.13 | 1134.71 | 1088.38 | 24.49 | |
| 5400.00 | 5350.05 | 16.27 | 107.85 | 5209.49 | 23.47 | 13.46 | 217.39 | 1155.21 | 1107.70 | 24.31 | |
| 5500.00 | 5447.79 | 16.27 | 107.85 | 5303.32 | 24.05 | 13.75 | 217.64 | 1175.73 | 1127.03 | 24.15 | |
| 5600.00 | 5545.53 | 16.27 | 107.85 | 5397.15 | 24.64 | 14.04 | 217.89 | 1196.27 | 1146.39 | 23.99 | |
| 5700.00 | 5643.27 | 16.27 | 107.85 | 5490.97 | 25.22 | 14.32 | 218.13 | 1216.83 | 1165.77 | 23.83 | |
| 5800.00 | 5741.02 | 16.27 | 107.85 | 5584.80 | 25.81 | 14.61 | 218.35 | 1237.41 | 1185.17 | 23.69 | |
| 5900.00 | 5838.76 | 16.27 | 107.85 | 5678.62 | 26.40 | 14.90 | 218.58 | 1258.01 | 1204.59 | 23.55 | |
| 6000.00 | 5936.50 | 16.27 | 107.85 | 5772.45 | 26.98 | 15.19 | 218.79 | 1278.62 | 1224.02 | 23.42 | |
| 6100.00 | 6034.24 | 16.27 | 107.85 | 5866.27 | 27.57 | 15.48 | 219.00 | 1299.25 | 1243.47 | 23.29 | |
| 6200.00 | 6131.98 | 16.27 | 107.85 | 5960.10 | 28.15 | 15.77 | 219.20 | 1319.90 | 1262.93 | 23.17 | |
| 6300.00 | 6232.44 | 15.33 | 109.32 | 6056.57 | 28.74 | 16.07 | 219.39 | 1340.55 | 1282.39 | 23.05 | |
| 6400.00 | 6356.64 | 7.39 | 142.06 | 6178.34 | 29.09 | 16.25 | 219.08 | 1360.07 | 1301.02 | 23.04 | |
| 6500.00 | 6475.80 | 8.14 | 217.76 | 6296.67 | 29.06 | 16.02 | 217.95 | 1377.96 | 1318.78 | 23.29 | |
| 6600.00 | 6584.31 | 15.31 | 243.24 | 6402.92 | 28.78 | 15.48 | 216.27 | 1395.11 | 1336.39 | 23.76 | |
| 6700.00 | 6682.06 | 22.68 | 251.43 | 6495.30 | 28.39 | 14.73 | 195.47 | 1412.98 | 1355.09 | 24.41 | |
| 6800.00 | 6774.05 | 29.82 | 255.52 | 6577.75 | 27.95 | 13.83 | 167.69 | 1432.27 | 1375.28 | 25.13 | |
| 6900.00 | 6861.52 | 36.68 | 258.02 | 6650.86 | 27.53 | 12.84 | 143.57 | 1452.46 | 1396.33 | 25.87 | |
| 7000.00 | 6945.39 | 43.30 | 259.77 | 6715.08 | 27.16 | 11.83 | 126.40 | 1472.97 | 1417.67 | 26.64 | |
| 7100.00 | 7026.37 | 49.71 | 261.08 | 6770.80 | 26.87 | 10.85 | 114.60 | 1493.19 | 1438.64 | 27.37 | |
| 7200.00 | 7105.04 | 55.94 | 262.14 | 6818.31 | 26.70 | 10.00 | 106.21 | 1512.55 | 1458.58 | 28.03 | |
| 7300.00 | 7181.82 | 62.04 | 263.04 | 6857.85 | 26.68 | 9.35 | 100.00 | 1530.52 | 1476.84 | 28.52 | |
| 7400.00 | 7257.08 | 68.02 | 263.82 | 6889.61 | 26.81 | 9.01 | 95.31 | 1546.61 | 1492.85 | 28.77 | |
| 7500.00 | 7331.09 | 73.90 | 264.53 | 6913.74 | 27.08 | 9.01 | 91.74 | 1560.39 | 1506.19 | 28.79 | |
| 7600.00 | 7404.08 | 79.70 | 265.18 | 6930.40 | 27.48 | 9.37 | 89.09 | 1571.50 | 1516.47 | 28.56 | |
| 7700.00 | 7476.23 | 85.44 | 265.81 | 6939.72 | 28.05 | 10.05 | 87.22 | 1579.65 | 1523.41 | 28.09 | |
| 7800.00 | 7553.28 | 90.00 | 266.30 | 6942.00 | 28.74 | 10.86 | 86.04 | 1584.58 | 1526.87 | 27.46 | |
| 7900.00 | 7653.12 | 90.00 | 266.30 | 6942.00 | 29.83 | 11.34 | 85.73 | 1585.06 | 1525.61 | 26.66 | |
| 8000.00 | 7753.12 | 90.00 | 266.30 | 6942.00 | 31.11 | 11.84 | 85.73 | 1583.88 | 1522.23 | 25.69 | |
| 8100.00 | 7853.11 | 90.00 | 266.30 | 6942.00 | 32.58 | 12.36 | 85.72 | 1582.70 | 1518.26 | 24.56 | |
| 8200.00 | 7953.10 | 90.00 | 266.30 | 6942.00 | 34.22 | 12.91 | 85.72 | 1581.53 | 1514.01 | 23.42 | |
| 8300.00 | 8053.10 | 90.00 | 266.30 | 6942.00 | 36.00 | 13.48 | 85.72 | 1580.35 | 1509.48 | 22.30 | |
| 8400.00 | 8153.09 | 90.00 | 266.30 | 6942.00 | 37.90 | 14.06 | 85.71 | 1579.17 | 1504.70 | 21.20 | |
| 8500.00 | 8253.08 | 90.00 | 266.30 | 6942.00 | 39.91 | 14.65 | 85.71 | 1578.00 | 1499.66 | 20.14 | |
| 8600.00 | 8353.07 | 90.00 | 266.30 | 6942.00 | 42.00 | 15.26 | 85.71 | 1576.82 | 1494.47 | 19.15 | |
| 8700.00 | 8453.07 | 90.00 | 266.30 | 6942.00 | 44.18 | 15.88 | 85.70 | 1575.64 | 1489.12 | 18.21 | |
| 8800.00 | 8553.06 | 90.00 | 266.30 | 6942.00 | 46.42 | 16.51 | 85.70 | 1574.47 | 1483.57 | 17.32 | |
| 8900.00 | 8653.05 | 90.00 | 266.30 | 6942.00 | 48.72 | 17.15 | 85.70 | 1573.29 | 1478.02 | 16.51 | |
| 9000.00 | 8753.05 | 90.00 | 266.30 | 6942.00 | 51.07 | 17.79 | 85.70 | 1572.12 | 1472.22 | 15.74 | |
| 9100.00 | 8853.04 | 90.00 | 266.30 | 6942.00 | 53.46 | 18.44 | 85.69 | 1570.94 | 1466.31 | 15.01 | |
| 9200.00 | 8953.03 | 90.00 | 266.30 | 6942.00 | 55.89 | 19.10 | 85.69 | 1569.76 | 1460.33 | 14.34 | |
| 9300.00 | 9053.03 | 90.00 | 266.30 | 6942.00 | 58.35 | 19.76 | 85.69 | 1568.59 | 1454.30 | 13.72 | |
| 9400.00 | 9153.02 | 90.00 | 266.30 | 6942.00 | 60.84 | 20.43 | 85.68 | 1567.41 | 1448.21 | 13.15 | |
| 9500.00 | 9253.01 | 90.00 | 266.30 | 6942.00 | 63.36 | 21.10 | 85.68 | 1566.23 | 1442.07 | 12.61 | |
| 9600.00 | 9353.01 | 90.00 | 266.30 | 6942.00 | 65.90 | 21.78 | 85.68 | 1565.06 | 1435.88 | 12.12 | |
| 9700.00 | 9453.00 | 90.00 | 266.30 | 6942.00 | 68.46 | 22.45 | 85.67 | 1563.88 | 1429.66 | 11.65 | |
| 9800.00 | 9552.99 | 90.00 | 266.30 | 6942.00 | 71.03 | 23.14 | 85.67 | 1562.70 | 1423.39 | 11.22 | |
| 9900.00 | 9652.98 | 90.00 | 266.30 | 6942.00 | 73.63 | 23.82 | 85.67 | 1561.53 | 1417.10 | 10.81 | |
| 10000.00 | 9752.98 | 90.00 | 266.30 | 6942.00 | 76.23 | 24.51 | 85.66 | 1560.35 | 1410.74 | 10.43 | |
| 10100.00 | 9852.97 | 90.00 | 266.30 | 6942.00 | 78.85 | 25.20 | 85.66 | 1559.17 | 1404.34 | 10.07 | |

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 |
| 10200.00 | 9952.96 | 90.00 | 266.30 | 6942.00 | 81.49 | 25.89 | 85.66 | 1558.00 | 1397.92 | 9.73 | |
| 10300.00 | 10052.96 | 90.00 | 266.30 | 6942.00 | 84.13 | 26.59 | 85.65 | 1556.82 | 1391.47 | 9.42 | |
| 10400.00 | 10152.95 | 90.00 | 266.30 | 6942.00 | 86.78 | 27.29 | 85.65 | 1555.65 | 1385.01 | 9.12 | |
| 10500.00 | 10252.94 | 90.00 | 266.30 | 6942.00 | 89.44 | 27.99 | 85.65 | 1554.47 | 1378.53 | 8.84 | |
| 10600.00 | 10352.94 | 90.00 | 266.30 | 6942.00 | 92.11 | 28.69 | 85.64 | 1553.29 | 1372.03 | 8.57 | |
| 10700.00 | 10452.93 | 90.00 | 266.30 | 6942.00 | 94.79 | 29.39 | 85.64 | 1552.12 | 1365.51 | 8.32 | |
| 10800.00 | 10552.92 | 90.00 | 266.30 | 6942.00 | 97.47 | 30.09 | 85.64 | 1550.94 | 1358.99 | 8.08 | |
| 10900.00 | 10652.91 | 90.00 | 266.30 | 6942.00 | 100.16 | 30.80 | 85.63 | 1549.76 | 1352.45 | 7.85 | |
| 11000.00 | 10752.91 | 90.00 | 266.30 | 6942.00 | 102.85 | 31.50 | 85.63 | 1548.59 | 1345.90 | 7.64 | |
| 11100.00 | 10852.90 | 90.00 | 266.30 | 6942.00 | 105.55 | 32.21 | 85.63 | 1547.41 | 1339.33 | 7.44 | |
| 11200.00 | 10952.89 | 90.00 | 266.30 | 6942.00 | 108.26 | 32.92 | 85.62 | 1546.23 | 1332.76 | 7.24 | |
| 11300.00 | 11052.89 | 90.00 | 266.30 | 6942.00 | 110.97 | 33.63 | 85.62 | 1545.06 | 1326.18 | 7.06 | |
| 11400.00 | 11152.88 | 90.00 | 266.30 | 6942.00 | 113.68 | 34.34 | 85.62 | 1543.88 | 1319.59 | 6.88 | |
| 11500.00 | 11252.87 | 90.00 | 266.30 | 6942.00 | 116.40 | 35.05 | 85.61 | 1542.71 | 1313.00 | 6.72 | |
| 11600.00 | 11352.87 | 90.00 | 266.30 | 6942.00 | 119.12 | 35.77 | 85.61 | 1541.53 | 1306.40 | 6.56 | |
| 11700.00 | 11452.86 | 90.00 | 266.30 | 6942.00 | 121.84 | 36.48 | 85.61 | 1540.35 | 1299.79 | 6.40 | |
| 11800.00 | 11552.85 | 90.00 | 266.30 | 6942.00 | 124.57 | 37.19 | 85.60 | 1539.18 | 1293.17 | 6.26 | |
| 11900.00 | 11652.85 | 90.00 | 266.30 | 6942.00 | 127.30 | 37.91 | 85.60 | 1538.00 | 1286.55 | 6.12 | |
| 12000.00 | 11752.84 | 90.00 | 266.30 | 6942.00 | 130.03 | 38.62 | 85.60 | 1536.82 | 1279.92 | 5.98 | |
| 12100.00 | 11852.83 | 90.00 | 266.30 | 6942.00 | 132.77 | 39.34 | 85.59 | 1535.65 | 1273.29 | 5.85 | |
| 12200.00 | 11952.82 | 90.00 | 266.30 | 6942.00 | 135.51 | 40.06 | 85.59 | 1534.47 | 1266.65 | 5.73 | |
| 12300.00 | 12052.82 | 90.00 | 266.30 | 6942.00 | 138.25 | 40.77 | 85.59 | 1533.29 | 1260.01 | 5.61 | |
| 12400.00 | 12152.81 | 90.00 | 266.30 | 6942.00 | 140.99 | 41.49 | 85.58 | 1532.12 | 1253.36 | 5.50 | |
| 12500.00 | 12252.80 | 90.00 | 266.30 | 6942.00 | 143.74 | 42.21 | 85.58 | 1530.94 | 1246.71 | 5.39 | |
| 12600.00 | 12352.80 | 90.00 | 266.30 | 6942.00 | 146.48 | 42.93 | 85.58 | 1529.77 | 1240.05 | 5.28 | |
| 12700.00 | 12452.79 | 90.00 | 266.30 | 6942.00 | 149.23 | 43.65 | 85.57 | 1528.59 | 1233.40 | 5.18 | |
| 12800.00 | 12552.78 | 90.00 | 266.30 | 6942.00 | 151.98 | 44.37 | 85.57 | 1527.41 | 1226.73 | 5.08 | |
| 12900.00 | 12652.78 | 90.00 | 266.30 | 6942.00 | 154.73 | 45.09 | 85.57 | 1526.24 | 1220.07 | 4.98 | |
| 13000.00 | 12752.77 | 90.00 | 266.30 | 6942.00 | 157.49 | 45.81 | 85.56 | 1525.06 | 1213.40 | 4.89 | |
| 13100.00 | 12852.76 | 90.00 | 266.30 | 6942.00 | 160.24 | 46.53 | 85.56 | 1523.88 | 1206.73 | 4.80 | |
| 13200.00 | 12952.75 | 90.00 | 266.30 | 6942.00 | 163.00 | 47.25 | 85.56 | 1522.71 | 1200.06 | 4.72 | |
| 13300.00 | 13052.75 | 90.00 | 266.30 | 6942.00 | 165.76 | 47.97 | 85.55 | 1521.53 | 1193.38 | 4.64 | |
| 13400.00 | 13152.74 | 90.00 | 266.30 | 6942.00 | 168.52 | 48.70 | 85.55 | 1520.36 | 1186.70 | 4.56 | |
| 13500.00 | 13252.73 | 90.00 | 266.30 | 6942.00 | 171.28 | 49.42 | 85.54 | 1519.18 | 1180.02 | 4.48 | |
| 13600.00 | 13352.73 | 90.00 | 266.30 | 6942.00 | 174.04 | 50.14 | 85.54 | 1518.00 | 1173.34 | 4.40 | |
| 13700.00 | 13452.72 | 90.00 | 266.30 | 6942.00 | 176.80 | 50.87 | 85.54 | 1516.83 | 1166.65 | 4.33 | |
| 13800.00 | 13552.71 | 90.00 | 266.30 | 6942.00 | 179.56 | 51.59 | 85.53 | 1515.65 | 1159.97 | 4.26 | |
| 13900.00 | 13652.71 | 90.00 | 266.30 | 6942.00 | 182.33 | 52.31 | 85.53 | 1514.47 | 1153.28 | 4.19 | |
| 14000.00 | 13752.70 | 90.00 | 266.30 | 6942.00 | 185.09 | 53.04 | 85.53 | 1513.30 | 1146.59 | 4.13 | |
| 14100.00 | 13852.69 | 90.00 | 266.30 | 6942.00 | 187.86 | 53.76 | 85.52 | 1512.12 | 1139.89 | 4.06 | |
| 14200.00 | 13952.69 | 90.00 | 266.30 | 6942.00 | 190.63 | 54.49 | 85.52 | 1510.95 | 1133.20 | 4.00 | |
| 14300.00 | 14052.68 | 90.00 | 266.30 | 6942.00 | 193.39 | 55.21 | 85.52 | 1509.77 | 1126.50 | 3.94 | |
| 14400.00 | 14152.67 | 90.00 | 266.30 | 6942.00 | 196.16 | 55.93 | 85.51 | 1508.59 | 1119.80 | 3.88 | |
| 14500.00 | 14252.66 | 90.00 | 266.30 | 6942.00 | 198.93 | 56.66 | 85.51 | 1507.42 | 1113.11 | 3.82 | |
| 14600.00 | 14352.66 | 90.00 | 266.30 | 6942.00 | 201.70 | 57.39 | 85.51 | 1506.24 | 1106.40 | 3.77 | |
| 14700.00 | 14452.65 | 90.00 | 266.30 | 6942.00 | 204.47 | 58.11 | 85.50 | 1505.07 | 1099.70 | 3.71 | |
| 14800.00 | 14552.64 | 90.00 | 266.30 | 6942.00 | 207.24 | 58.84 | 85.50 | 1503.89 | 1093.00 | 3.66 | |
| 14900.00 | 14652.64 | 90.00 | 266.30 | 6942.00 | 210.02 | 59.56 | 85.50 | 1502.71 | 1086.30 | 3.61 | |
| 15000.00 | 14752.63 | 90.00 | 266.30 | 6942.00 | 212.79 | 60.29 | 85.49 | 1501.54 | 1079.59 | 3.56 | |
| 15100.00 | 14852.62 | 90.00 | 266.30 | 6942.00 | 215.56 | 61.02 | 85.49 | 1500.36 | 1072.88 | 3.51 | |
| 15200.00 | 14952.62 | 90.00 | 266.30 | 6942.00 | 218.34 | 61.74 | 85.49 | 1499.18 | 1066.18 | 3.46 | |
| 15300.00 | 15052.61 | 90.00 | 266.30 | 6942.00 | 221.11 | 62.47 | 85.48 | 1498.01 | 1059.47 | 3.42 | |
| 15400.00 | 15152.60 | 90.00 | 266.30 | 6942.00 | 223.89 | 63.20 | 85.48 | 1496.83 | 1052.76 | 3.37 | |
| 15500.00 | 15252.59 | 90.00 | 266.30 | 6942.00 | 226.66 | 63.92 | 85.47 | 1495.66 | 1046.05 | 3.33 | |
| 15600.00 | 15352.59 | 90.00 | 266.30 | 6942.00 | 229.44 | 64.65 | 85.47 | 1494.48 | 1039.33 | 3.28 | |
| 15700.00 | 15440.87 | 90.00 | 266.30 | 6942.00 | 231.89 | 65.29 | 85.47 | 1493.35 | 1033.13 | 3.24 | |
| 15768.80 | 15440.87 | 90.00 | 266.30 | 6942.00 | 231.89 | 65.29 | 85.47 | 1494.66 | 1033.92 | 3.24 | |

5D Anti-Collision Report

| Secondary Well: Goetzel 33C-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 | 0.08 | 120.22 | 119.49 | 163.95 | |
| 100.00 | 100.00 | 0.00 | 0.00 | 100.00 | 0.11 | 0.11 | 0.08 | 120.22 | 119.27 | 126.03 | |
| 200.00 | 200.00 | 0.00 | 0.00 | 200.00 | 0.34 | 0.34 | 0.08 | 120.22 | 118.82 | 85.66 | |
| 300.00 | 300.00 | 0.00 | 0.00 | 300.00 | 0.56 | 0.56 | 0.08 | 120.22 | 118.37 | 64.88 | |
| 400.00 | 399.98 | 0.00 | 0.00 | 399.98 | 0.79 | 0.79 | 215.50 | 121.64 | 119.36 | 53.36 | |
| 500.00 | 499.84 | 0.00 | 0.00 | 499.84 | 1.01 | 1.01 | 214.17 | 125.94 | 123.23 | 46.53 | |
| 600.00 | 599.45 | 0.00 | 0.00 | 599.45 | 1.24 | 1.24 | 212.14 | 133.25 | 130.10 | 42.30 | |
| 700.00 | 698.70 | 0.00 | 0.00 | 698.70 | 1.46 | 1.46 | 209.66 | 143.73 | 140.11 | 39.78 | |
| 800.00 | 797.47 | 0.00 | 0.00 | 797.47 | 1.68 | 1.68 | 206.98 | 157.54 | 153.45 | 38.49 | |
| 900.00 | 895.62 | 0.00 | 0.00 | 895.62 | 1.90 | 1.90 | 204.29 | 174.80 | 170.23 | 38.21 | |
| 1000.00 | 993.06 | 0.00 | 0.00 | 993.06 | 2.12 | 2.12 | 201.75 | 195.59 | 190.53 | 38.67 | |
| 1100.00 | 1089.64 | 0.00 | 0.00 | 1089.64 | 2.34 | 2.34 | 199.43 | 219.93 | 214.36 | 39.51 | |
| 1200.00 | 1187.55 | 0.75 | 115.27 | 1187.55 | 2.55 | 2.55 | 197.35 | 247.63 | 241.57 | 40.87 | |
| 1300.00 | 1289.58 | 2.79 | 115.27 | 1289.52 | 2.74 | 2.74 | 195.86 | 276.87 | 270.31 | 42.23 | |
| 1400.00 | 1392.60 | 4.85 | 115.27 | 1392.31 | 2.95 | 2.94 | 194.91 | 306.48 | 299.41 | 43.36 | |
| 1500.00 | 1497.33 | 6.95 | 115.27 | 1496.48 | 3.18 | 3.14 | 194.51 | 333.90 | 326.31 | 43.98 | |
| 1600.00 | 1603.65 | 9.07 | 115.27 | 1601.75 | 3.44 | 3.34 | 194.60 | 358.72 | 350.55 | 43.93 | |
| 1700.00 | 1711.29 | 11.23 | 115.27 | 1707.70 | 3.75 | 3.56 | 195.10 | 380.89 | 372.11 | 43.37 | |
| 1800.00 | 1819.96 | 13.40 | 115.27 | 1813.87 | 4.11 | 3.78 | 195.96 | 400.41 | 390.95 | 42.34 | |
| 1900.00 | 1929.38 | 15.59 | 115.27 | 1919.80 | 4.54 | 4.02 | 197.14 | 417.35 | 407.12 | 40.81 | |
| 2000.00 | 2029.80 | 15.98 | 115.27 | 2016.36 | 5.00 | 4.25 | 198.37 | 432.69 | 421.66 | 39.23 | |
| 2100.00 | 2128.22 | 15.98 | 115.27 | 2110.98 | 5.47 | 4.49 | 199.51 | 448.16 | 436.31 | 37.83 | |
| 2200.00 | 2226.64 | 15.98 | 115.27 | 2205.59 | 5.96 | 4.74 | 200.57 | 463.80 | 451.12 | 36.57 | |
| 2300.00 | 2325.05 | 15.98 | 115.27 | 2300.21 | 6.47 | 5.00 | 201.56 | 479.58 | 466.01 | 35.33 | |
| 2400.00 | 2423.47 | 15.98 | 115.27 | 2394.82 | 6.99 | 5.25 | 202.48 | 495.50 | 480.98 | 34.14 | |
| 2500.00 | 2521.89 | 15.98 | 115.27 | 2489.44 | 7.52 | 5.51 | 203.35 | 511.53 | 496.05 | 33.06 | |
| 2600.00 | 2620.30 | 15.98 | 115.27 | 2584.05 | 8.06 | 5.78 | 204.17 | 527.67 | 511.22 | 32.08 | |
| 2700.00 | 2718.72 | 15.98 | 115.27 | 2678.66 | 8.60 | 6.04 | 204.94 | 543.91 | 526.48 | 31.21 | |
| 2800.00 | 2817.13 | 15.98 | 115.27 | 2773.28 | 9.15 | 6.31 | 205.66 | 560.24 | 541.82 | 30.42 | |
| 2900.00 | 2915.55 | 15.98 | 115.27 | 2867.89 | 9.70 | 6.58 | 206.34 | 576.66 | 557.24 | 29.70 | |
| 3000.00 | 3013.97 | 15.98 | 115.27 | 2962.51 | 10.26 | 6.86 | 206.99 | 593.14 | 572.72 | 29.05 | |
| 3100.00 | 3112.38 | 15.98 | 115.27 | 3057.12 | 10.82 | 7.13 | 207.60 | 609.70 | 588.26 | 28.44 | |
| 3200.00 | 3210.80 | 15.98 | 115.27 | 3151.73 | 11.39 | 7.41 | 208.18 | 626.33 | 603.82 | 27.83 | |
| 3300.00 | 3309.22 | 15.98 | 115.27 | 3246.35 | 11.95 | 7.68 | 208.72 | 643.01 | 619.43 | 27.27 | |
| 3400.00 | 3407.63 | 15.98 | 115.27 | 3340.96 | 12.52 | 7.96 | 209.25 | 659.74 | 635.09 | 26.76 | |
| 3500.00 | 3506.05 | 15.98 | 115.27 | 3435.58 | 13.09 | 8.24 | 209.74 | 676.53 | 650.80 | 26.29 | |
| 3600.00 | 3604.46 | 15.98 | 115.27 | 3530.19 | 13.66 | 8.52 | 210.21 | 693.36 | 666.54 | 25.85 | |
| 3700.00 | 3702.88 | 15.98 | 115.27 | 3624.80 | 14.23 | 8.80 | 210.66 | 710.24 | 682.33 | 25.45 | |
| 3800.00 | 3801.30 | 15.98 | 115.27 | 3719.42 | 14.80 | 9.08 | 211.09 | 727.16 | 698.16 | 25.08 | |
| 3900.00 | 3899.71 | 15.98 | 115.27 | 3814.03 | 15.37 | 9.37 | 211.50 | 744.11 | 714.02 | 24.73 | |
| 4000.00 | 3998.13 | 15.98 | 115.27 | 3908.65 | 15.95 | 9.65 | 211.89 | 761.10 | 729.91 | 24.40 | |
| 4100.00 | 4096.54 | 15.98 | 115.27 | 4003.26 | 16.52 | 9.93 | 212.26 | 778.12 | 745.84 | 24.10 | |
| 4200.00 | 4194.96 | 15.98 | 115.27 | 4097.87 | 17.10 | 10.22 | 212.62 | 795.18 | 761.79 | 23.82 | |
| 4300.00 | 4293.38 | 15.98 | 115.27 | 4192.49 | 17.68 | 10.50 | 212.96 | 812.26 | 777.77 | 23.55 | |
| 4400.00 | 4391.79 | 15.98 | 115.27 | 4287.10 | 18.25 | 10.79 | 213.29 | 829.37 | 793.78 | 23.30 | |
| 4500.00 | 4490.21 | 15.98 | 115.27 | 4381.72 | 18.83 | 11.07 | 213.60 | 846.51 | 809.81 | 23.07 | |
| 4600.00 | 4588.63 | 15.98 | 115.27 | 4476.33 | 19.41 | 11.36 | 213.91 | 863.67 | 825.86 | 22.85 | |
| 4700.00 | 4687.04 | 15.98 | 115.27 | 4570.94 | 19.99 | 11.65 | 214.20 | 880.85 | 841.94 | 22.64 | |
| 4800.00 | 4785.46 | 15.98 | 115.27 | 4665.56 | 20.57 | 11.93 | 214.48 | 898.05 | 858.03 | 22.44 | |
| 4900.00 | 4883.87 | 15.98 | 115.27 | 4760.17 | 21.15 | 12.22 | 214.75 | 915.27 | 874.14 | 22.25 | |
| 5000.00 | 4982.29 | 15.98 | 115.27 | 4854.79 | 21.73 | 12.51 | 215.00 | 932.51 | 890.28 | 22.08 | |
| 5100.00 | 5080.71 | 15.98 | 115.27 | 4949.40 | 22.31 | 12.79 | 215.25 | 949.77 | 906.41 | 21.90 | |
| 5200.00 | 5179.12 | 15.98 | 115.27 | 5044.02 | 22.89 | 13.08 | 215.50 | 967.05 | 922.55 | 21.73 | |
| 5300.00 | 5277.54 | 15.98 | 115.27 | 5138.63 | 23.47 | 13.37 | 215.73 | 984.34 | 938.71 | 21.57 | |
| 5400.00 | 5375.95 | 15.98 | 115.27 | 5233.24 | 24.05 | 13.66 | 215.95 | 1001.65 | 954.89 | 21.42 | |
| 5500.00 | 5474.37 | 15.98 | 115.27 | 5327.86 | 24.63 | 13.95 | 216.17 | 1018.97 | 971.08 | 21.28 | |
| 5600.00 | 5572.79 | 15.98 | 115.27 | 5422.47 | 25.21 | 14.24 | 216.38 | 1036.31 | 987.28 | 21.14 | |
| 5700.00 | 5671.20 | 15.98 | 115.27 | 5517.09 | 25.79 | 14.52 | 216.58 | 1053.66 | 1003.49 | 21.00 | |

5D Anti-Collision Report

| Secondary Well: Goetzel 33C-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 |
| 5800.00 | 5769.62 | 15.98 | 115.27 | 5611.70 | 26.38 | 14.81 | 216.78 | 1071.02 | 1019.72 | 20.88 | |
| 5900.00 | 5868.04 | 15.98 | 115.27 | 5706.31 | 26.96 | 15.10 | 216.97 | 1088.39 | 1035.96 | 20.76 | |
| 6000.00 | 5966.45 | 15.98 | 115.27 | 5800.93 | 27.54 | 15.39 | 217.15 | 1105.78 | 1052.20 | 20.64 | |
| 6100.00 | 6064.87 | 15.98 | 115.27 | 5895.54 | 28.12 | 15.68 | 217.33 | 1123.17 | 1068.46 | 20.53 | |
| 6200.00 | 6163.28 | 15.98 | 115.27 | 5990.16 | 28.71 | 15.97 | 217.50 | 1140.58 | 1084.73 | 20.42 | |
| 6300.00 | 6261.70 | 15.98 | 115.27 | 6084.77 | 29.29 | 16.26 | 217.67 | 1157.99 | 1101.00 | 20.32 | |
| 6400.00 | 6360.12 | 15.98 | 115.27 | 6179.38 | 29.87 | 16.55 | 217.83 | 1175.42 | 1117.28 | 20.22 | |
| 6500.00 | 6468.92 | 11.39 | 129.53 | 6284.71 | 30.32 | 16.83 | 217.84 | 1192.58 | 1133.45 | 20.17 | |
| 6600.00 | 6582.17 | 7.84 | 182.09 | 6396.55 | 30.39 | 16.83 | 217.06 | 1208.57 | 1149.07 | 20.31 | |
| 6700.00 | 6690.06 | 12.17 | 227.23 | 6502.93 | 30.13 | 16.53 | 197.01 | 1224.22 | 1164.98 | 20.66 | |
| 6800.00 | 6793.93 | 19.27 | 243.61 | 6602.89 | 29.64 | 15.95 | 169.94 | 1240.42 | 1181.80 | 21.16 | |
| 6900.00 | 6894.23 | 26.78 | 250.93 | 6695.15 | 29.03 | 15.13 | 146.47 | 1256.86 | 1198.97 | 21.71 | |
| 7000.00 | 6991.37 | 34.27 | 255.08 | 6778.78 | 28.37 | 14.12 | 129.90 | 1273.20 | 1216.16 | 22.32 | |
| 7100.00 | 7085.75 | 41.63 | 257.81 | 6853.17 | 27.77 | 12.99 | 118.65 | 1289.07 | 1232.87 | 22.94 | |
| 7200.00 | 7177.75 | 48.85 | 259.81 | 6917.90 | 27.27 | 11.82 | 110.73 | 1304.12 | 1248.64 | 23.51 | |
| 7300.00 | 7267.68 | 55.94 | 261.37 | 6972.75 | 26.96 | 10.72 | 104.92 | 1317.98 | 1263.02 | 23.98 | |
| 7400.00 | 7355.83 | 62.90 | 262.66 | 7017.57 | 26.85 | 9.85 | 100.56 | 1330.33 | 1275.56 | 24.29 | |
| 7500.00 | 7442.46 | 69.76 | 263.78 | 7052.32 | 26.96 | 9.37 | 97.25 | 1340.87 | 1285.81 | 24.35 | |
| 7600.00 | 7527.78 | 76.51 | 264.80 | 7077.06 | 27.30 | 9.39 | 94.78 | 1349.35 | 1293.58 | 24.19 | |
| 7700.00 | 7611.98 | 83.19 | 265.74 | 7091.89 | 27.83 | 9.95 | 93.02 | 1355.56 | 1298.70 | 23.84 | |
| 7800.00 | 7695.23 | 89.78 | 266.65 | 7096.99 | 28.55 | 10.96 | 91.90 | 1359.33 | 1301.06 | 23.33 | |
| 7900.00 | 7794.52 | 90.00 | 266.68 | 7097.00 | 29.54 | 11.44 | 91.56 | 1360.05 | 1300.05 | 22.67 | |
| 8000.00 | 7894.52 | 90.00 | 266.68 | 7097.00 | 30.76 | 11.93 | 91.56 | 1359.53 | 1297.24 | 21.83 | |
| 8100.00 | 7994.52 | 90.00 | 266.68 | 7097.00 | 32.17 | 12.45 | 91.56 | 1359.02 | 1294.09 | 20.93 | |
| 8200.00 | 8094.52 | 90.00 | 266.68 | 7097.00 | 33.76 | 12.99 | 91.56 | 1358.51 | 1290.66 | 20.02 | |
| 8300.00 | 8194.52 | 90.00 | 266.68 | 7097.00 | 35.50 | 13.55 | 91.56 | 1357.99 | 1286.84 | 19.08 | |
| 8400.00 | 8294.52 | 90.00 | 266.68 | 7097.00 | 37.36 | 14.13 | 91.56 | 1357.48 | 1282.68 | 18.15 | |
| 8500.00 | 8394.52 | 90.00 | 266.68 | 7097.00 | 39.34 | 14.72 | 91.56 | 1356.97 | 1278.29 | 17.25 | |
| 8600.00 | 8494.52 | 90.00 | 266.68 | 7097.00 | 41.40 | 15.32 | 91.56 | 1356.45 | 1273.75 | 16.40 | |
| 8700.00 | 8594.51 | 90.00 | 266.68 | 7097.00 | 43.56 | 15.94 | 91.56 | 1355.94 | 1269.05 | 15.61 | |
| 8800.00 | 8694.51 | 90.00 | 266.68 | 7097.00 | 45.78 | 16.57 | 91.56 | 1355.42 | 1264.15 | 14.85 | |
| 8900.00 | 8794.51 | 90.00 | 266.68 | 7097.00 | 48.06 | 17.20 | 91.56 | 1354.91 | 1259.25 | 14.16 | |
| 9000.00 | 8894.51 | 90.00 | 266.68 | 7097.00 | 50.39 | 17.84 | 91.57 | 1354.40 | 1254.16 | 13.51 | |
| 9100.00 | 8994.51 | 90.00 | 266.68 | 7097.00 | 52.77 | 18.49 | 91.57 | 1353.88 | 1248.92 | 12.90 | |
| 9200.00 | 9094.51 | 90.00 | 266.68 | 7097.00 | 55.19 | 19.15 | 91.57 | 1353.37 | 1243.62 | 12.33 | |
| 9300.00 | 9194.51 | 90.00 | 266.68 | 7097.00 | 57.64 | 19.81 | 91.57 | 1352.86 | 1238.26 | 11.81 | |
| 9400.00 | 9294.51 | 90.00 | 266.68 | 7097.00 | 60.12 | 20.47 | 91.57 | 1352.34 | 1232.85 | 11.32 | |
| 9500.00 | 9394.50 | 90.00 | 266.68 | 7097.00 | 62.63 | 21.14 | 91.57 | 1351.83 | 1227.38 | 10.86 | |
| 9600.00 | 9494.50 | 90.00 | 266.68 | 7097.00 | 65.16 | 21.81 | 91.57 | 1351.32 | 1221.87 | 10.44 | |
| 9700.00 | 9594.50 | 90.00 | 266.68 | 7097.00 | 67.72 | 22.49 | 91.57 | 1350.80 | 1216.32 | 10.04 | |
| 9800.00 | 9694.50 | 90.00 | 266.68 | 7097.00 | 70.29 | 23.17 | 91.57 | 1350.29 | 1210.73 | 9.68 | |
| 9900.00 | 9794.50 | 90.00 | 266.68 | 7097.00 | 72.88 | 23.86 | 91.57 | 1349.77 | 1205.07 | 9.33 | |
| 10000.00 | 9894.50 | 90.00 | 266.68 | 7097.00 | 75.48 | 24.54 | 91.57 | 1349.26 | 1199.36 | 9.00 | |
| 10100.00 | 9994.50 | 90.00 | 266.68 | 7097.00 | 78.10 | 25.23 | 91.57 | 1348.75 | 1193.62 | 8.69 | |
| 10200.00 | 10094.49 | 90.00 | 266.68 | 7097.00 | 80.73 | 25.92 | 91.57 | 1348.23 | 1187.86 | 8.41 | |
| 10300.00 | 10194.49 | 90.00 | 266.68 | 7097.00 | 83.37 | 26.62 | 91.57 | 1347.72 | 1182.07 | 8.14 | |
| 10400.00 | 10294.49 | 90.00 | 266.68 | 7097.00 | 86.02 | 27.31 | 91.57 | 1347.21 | 1176.27 | 7.88 | |
| 10500.00 | 10394.49 | 90.00 | 266.68 | 7097.00 | 88.68 | 28.01 | 91.57 | 1346.69 | 1170.44 | 7.64 | |
| 10600.00 | 10494.49 | 90.00 | 266.68 | 7097.00 | 91.35 | 28.71 | 91.58 | 1346.18 | 1164.60 | 7.41 | |
| 10700.00 | 10594.49 | 90.00 | 266.68 | 7097.00 | 94.02 | 29.41 | 91.58 | 1345.67 | 1158.74 | 7.20 | |
| 10800.00 | 10694.49 | 90.00 | 266.68 | 7097.00 | 96.70 | 30.12 | 91.58 | 1345.15 | 1152.87 | 7.00 | |
| 10900.00 | 10794.49 | 90.00 | 266.68 | 7097.00 | 99.39 | 30.82 | 91.58 | 1344.64 | 1146.99 | 6.80 | |
| 11000.00 | 10894.48 | 90.00 | 266.68 | 7097.00 | 102.09 | 31.52 | 91.58 | 1344.12 | 1141.09 | 6.62 | |
| 11100.00 | 10994.48 | 90.00 | 266.68 | 7097.00 | 104.79 | 32.23 | 91.58 | 1343.61 | 1135.18 | 6.45 | |
| 11200.00 | 11094.48 | 90.00 | 266.68 | 7097.00 | 107.49 | 32.94 | 91.58 | 1343.10 | 1129.27 | 6.28 | |
| 11300.00 | 11194.48 | 90.00 | 266.68 | 7097.00 | 110.20 | 33.65 | 91.58 | 1342.58 | 1123.34 | 6.12 | |
| 11400.00 | 11294.48 | 90.00 | 266.68 | 7097.00 | 112.91 | 34.36 | 91.58 | 1342.07 | 1117.41 | 5.97 | |
| 11500.00 | 11394.48 | 90.00 | 266.68 | 7097.00 | 115.63 | 35.07 | 91.58 | 1341.56 | 1111.46 | 5.83 | |

5D Anti-Collision Report

| Secondary Well: Goetzel 33C-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 |
| 11600.00 | 11494.48 | 90.00 | 266.68 | 7097.00 | 118.35 | 35.78 | 91.58 | 1341.04 | 1105.51 | 5.69 | |
| 11700.00 | 11594.47 | 90.00 | 266.68 | 7097.00 | 121.08 | 36.49 | 91.58 | 1340.53 | 1099.55 | 5.56 | |
| 11800.00 | 11694.47 | 90.00 | 266.68 | 7097.00 | 123.81 | 37.21 | 91.58 | 1340.02 | 1093.59 | 5.44 | |
| 11900.00 | 11794.47 | 90.00 | 266.68 | 7097.00 | 126.54 | 37.92 | 91.58 | 1339.50 | 1087.62 | 5.32 | |
| 12000.00 | 11894.47 | 90.00 | 266.68 | 7097.00 | 129.27 | 38.64 | 91.58 | 1338.99 | 1081.64 | 5.20 | |
| 12100.00 | 11994.47 | 90.00 | 266.68 | 7097.00 | 132.01 | 39.35 | 91.58 | 1338.47 | 1075.66 | 5.09 | |
| 12200.00 | 12094.47 | 90.00 | 266.68 | 7097.00 | 134.75 | 40.07 | 91.58 | 1337.96 | 1069.67 | 4.99 | |
| 12300.00 | 12194.47 | 90.00 | 266.68 | 7097.00 | 137.49 | 40.78 | 91.59 | 1337.45 | 1063.68 | 4.89 | |
| 12400.00 | 12294.47 | 90.00 | 266.68 | 7097.00 | 140.23 | 41.50 | 91.59 | 1336.93 | 1057.69 | 4.79 | |
| 12500.00 | 12394.46 | 90.00 | 266.68 | 7097.00 | 142.98 | 42.22 | 91.59 | 1336.42 | 1051.68 | 4.69 | |
| 12600.00 | 12494.46 | 90.00 | 266.68 | 7097.00 | 145.73 | 42.94 | 91.59 | 1335.91 | 1045.68 | 4.60 | |
| 12700.00 | 12594.46 | 90.00 | 266.68 | 7097.00 | 148.48 | 43.66 | 91.59 | 1335.39 | 1039.67 | 4.52 | |
| 12800.00 | 12694.46 | 90.00 | 266.68 | 7097.00 | 151.23 | 44.38 | 91.59 | 1334.88 | 1033.66 | 4.43 | |
| 12900.00 | 12794.46 | 90.00 | 266.68 | 7097.00 | 153.98 | 45.10 | 91.59 | 1334.37 | 1027.64 | 4.35 | |
| 13000.00 | 12894.46 | 90.00 | 266.68 | 7097.00 | 156.74 | 45.82 | 91.59 | 1333.85 | 1021.62 | 4.27 | |
| 13100.00 | 12994.46 | 90.00 | 266.68 | 7097.00 | 159.49 | 46.54 | 91.59 | 1333.34 | 1015.60 | 4.20 | |
| 13200.00 | 13094.45 | 90.00 | 266.68 | 7097.00 | 162.25 | 47.26 | 91.59 | 1332.83 | 1009.58 | 4.12 | |
| 13300.00 | 13194.45 | 90.00 | 266.68 | 7097.00 | 165.01 | 47.98 | 91.59 | 1332.31 | 1003.55 | 4.05 | |
| 13400.00 | 13294.45 | 90.00 | 266.68 | 7097.00 | 167.77 | 48.70 | 91.59 | 1331.80 | 997.52 | 3.98 | |
| 13500.00 | 13394.45 | 90.00 | 266.68 | 7097.00 | 170.53 | 49.42 | 91.59 | 1331.28 | 991.49 | 3.92 | |
| 13600.00 | 13494.45 | 90.00 | 266.68 | 7097.00 | 173.30 | 50.15 | 91.59 | 1330.77 | 985.45 | 3.85 | |
| 13700.00 | 13594.45 | 90.00 | 266.68 | 7097.00 | 176.06 | 50.87 | 91.59 | 1330.26 | 979.42 | 3.79 | |
| 13800.00 | 13694.45 | 90.00 | 266.68 | 7097.00 | 178.82 | 51.59 | 91.59 | 1329.74 | 973.38 | 3.73 | |
| 13900.00 | 13794.45 | 90.00 | 266.68 | 7097.00 | 181.59 | 52.31 | 91.60 | 1329.23 | 967.33 | 3.67 | |
| 14000.00 | 13894.44 | 90.00 | 266.68 | 7097.00 | 184.36 | 53.04 | 91.60 | 1328.72 | 961.29 | 3.62 | |
| 14100.00 | 13994.44 | 90.00 | 266.68 | 7097.00 | 187.12 | 53.76 | 91.60 | 1328.20 | 955.25 | 3.56 | |
| 14200.00 | 14094.44 | 90.00 | 266.68 | 7097.00 | 189.89 | 54.49 | 91.60 | 1327.69 | 949.20 | 3.51 | |
| 14300.00 | 14194.44 | 90.00 | 266.68 | 7097.00 | 192.66 | 55.21 | 91.60 | 1327.18 | 943.15 | 3.46 | |
| 14400.00 | 14294.44 | 90.00 | 266.68 | 7097.00 | 195.43 | 55.93 | 91.60 | 1326.66 | 937.10 | 3.41 | |
| 14500.00 | 14394.44 | 90.00 | 266.68 | 7097.00 | 198.20 | 56.66 | 91.60 | 1326.15 | 931.05 | 3.36 | |
| 14600.00 | 14494.44 | 90.00 | 266.68 | 7097.00 | 200.98 | 57.38 | 91.60 | 1325.63 | 924.99 | 3.31 | |
| 14700.00 | 14594.44 | 90.00 | 266.68 | 7097.00 | 203.75 | 58.11 | 91.60 | 1325.12 | 918.94 | 3.26 | |
| 14800.00 | 14694.43 | 90.00 | 266.68 | 7097.00 | 206.52 | 58.84 | 91.60 | 1324.61 | 912.88 | 3.22 | |
| 14900.00 | 14794.43 | 90.00 | 266.68 | 7097.00 | 209.30 | 59.56 | 91.60 | 1324.09 | 906.82 | 3.17 | |
| 15000.00 | 14894.43 | 90.00 | 266.68 | 7097.00 | 212.07 | 60.29 | 91.60 | 1323.58 | 900.76 | 3.13 | |
| 15100.00 | 14994.43 | 90.00 | 266.68 | 7097.00 | 214.85 | 61.01 | 91.60 | 1323.07 | 894.70 | 3.09 | |
| 15200.00 | 15094.43 | 90.00 | 266.68 | 7097.00 | 217.62 | 61.74 | 91.60 | 1322.55 | 888.64 | 3.05 | |
| 15300.00 | 15194.43 | 90.00 | 266.68 | 7097.00 | 220.40 | 62.47 | 91.60 | 1322.04 | 882.58 | 3.01 | |
| 15400.00 | 15294.43 | 90.00 | 266.68 | 7097.00 | 223.17 | 63.19 | 91.60 | 1321.53 | 876.51 | 2.97 | |
| 15500.00 | 15394.42 | 90.00 | 266.68 | 7097.00 | 225.95 | 63.92 | 91.61 | 1321.01 | 870.45 | 2.93 | |
| 15600.00 | 15494.42 | 90.00 | 266.68 | 7097.00 | 228.73 | 64.65 | 91.61 | 1320.50 | 864.38 | 2.90 | |
| 15700.00 | 15594.42 | 90.00 | 266.68 | 7097.00 | 231.51 | 65.37 | 91.61 | 1319.98 | 858.31 | 2.86 | |
| 15768.80 | 15600.60 | 90.00 | 266.68 | 7097.00 | 231.68 | 65.42 | 91.61 | 1321.12 | 858.77 | 2.86 | |

| 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 | 0.03 | 100.19 | 99.45 | 136.62 | |
| 100.00 | 100.00 | 0.00 | 0.00 | 100.00 | 0.11 | 0.11 | 0.03 | 100.19 | 99.23 | 105.02 | |
| 200.00 | 200.00 | 0.00 | 0.00 | 200.00 | 0.34 | 0.34 | 0.03 | 100.19 | 98.78 | 71.38 | |
| 300.00 | 300.00 | 0.00 | 0.00 | 300.00 | 0.56 | 0.56 | 0.03 | 100.19 | 98.33 | 54.07 | |
| 400.00 | 399.98 | 0.00 | 0.00 | 399.98 | 0.79 | 0.79 | 215.35 | 101.61 | 99.33 | 44.57 | |
| 500.00 | 499.84 | 0.00 | 0.00 | 499.84 | 1.01 | 1.01 | 213.76 | 105.92 | 103.21 | 39.15 | |
| 600.00 | 599.45 | 0.00 | 0.00 | 599.45 | 1.24 | 1.24 | 211.39 | 113.27 | 110.12 | 35.98 | |
| 700.00 | 698.70 | 0.00 | 0.00 | 698.70 | 1.46 | 1.46 | 208.56 | 123.85 | 120.24 | 34.26 | |
| 800.00 | 797.47 | 0.00 | 0.00 | 797.47 | 1.68 | 1.68 | 205.58 | 137.82 | 133.73 | 33.68 | |
| 900.00 | 895.62 | 0.00 | 0.00 | 895.62 | 1.90 | 1.90 | 202.68 | 155.29 | 150.72 | 33.99 | |
| 1000.00 | 993.06 | 0.00 | 0.00 | 993.06 | 2.12 | 2.12 | 200.02 | 176.32 | 171.27 | 34.88 | |

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 |
| 1100.00 | 1094.90 | 1.90 | 123.78 | 1094.88 | 2.33 | 2.33 | 197.80 | 199.73 | 194.19 | 36.07 | |
| 1200.00 | 1197.90 | 3.96 | 123.78 | 1197.74 | 2.53 | 2.52 | 196.36 | 223.82 | 217.81 | 37.22 | |
| 1300.00 | 1301.70 | 6.03 | 123.78 | 1301.15 | 2.74 | 2.71 | 195.49 | 248.44 | 241.92 | 38.14 | |
| 1400.00 | 1406.44 | 8.13 | 123.78 | 1405.08 | 2.98 | 2.92 | 195.02 | 272.96 | 265.90 | 38.64 | |
| 1500.00 | 1512.67 | 10.25 | 123.78 | 1509.93 | 3.27 | 3.13 | 194.99 | 294.87 | 287.26 | 38.76 | |
| 1600.00 | 1620.22 | 12.40 | 123.78 | 1615.38 | 3.61 | 3.35 | 195.39 | 313.79 | 305.55 | 38.10 | |
| 1700.00 | 1728.81 | 14.58 | 123.78 | 1720.97 | 4.03 | 3.58 | 196.16 | 329.69 | 320.80 | 37.07 | |
| 1800.00 | 1838.14 | 16.76 | 123.78 | 1826.24 | 4.51 | 3.82 | 197.27 | 342.62 | 332.97 | 35.51 | |
| 1900.00 | 1941.09 | 17.55 | 123.78 | 1924.47 | 5.04 | 4.07 | 198.55 | 353.27 | 342.81 | 33.77 | |
| 2000.00 | 2040.25 | 17.55 | 123.78 | 2019.01 | 5.57 | 4.33 | 199.73 | 363.88 | 352.57 | 32.17 | |
| 2100.00 | 2139.41 | 17.55 | 123.78 | 2113.56 | 6.13 | 4.59 | 200.85 | 374.64 | 362.46 | 30.75 | |
| 2200.00 | 2238.57 | 17.55 | 123.78 | 2208.10 | 6.71 | 4.86 | 201.90 | 385.53 | 372.44 | 29.45 | |
| 2300.00 | 2337.73 | 17.55 | 123.78 | 2302.65 | 7.29 | 5.13 | 202.90 | 396.54 | 382.51 | 28.25 | |
| 2400.00 | 2436.89 | 17.55 | 123.78 | 2397.19 | 7.89 | 5.41 | 203.84 | 407.67 | 392.66 | 27.17 | |
| 2500.00 | 2536.06 | 17.55 | 123.78 | 2491.74 | 8.49 | 5.68 | 204.73 | 418.89 | 402.90 | 26.19 | |
| 2600.00 | 2635.22 | 17.55 | 123.78 | 2586.28 | 9.10 | 5.97 | 205.57 | 430.22 | 413.19 | 25.27 | |
| 2700.00 | 2734.38 | 17.55 | 123.78 | 2680.83 | 9.71 | 6.25 | 206.37 | 441.63 | 423.57 | 24.45 | |
| 2800.00 | 2833.54 | 17.55 | 123.78 | 2775.37 | 10.32 | 6.54 | 207.13 | 453.12 | 434.01 | 23.71 | |
| 2900.00 | 2932.70 | 17.55 | 123.78 | 2869.92 | 10.94 | 6.83 | 207.86 | 464.69 | 444.51 | 23.03 | |
| 3000.00 | 3031.86 | 17.55 | 123.78 | 2964.46 | 11.56 | 7.12 | 208.55 | 476.32 | 455.05 | 22.39 | |
| 3100.00 | 3131.02 | 17.55 | 123.78 | 3059.00 | 12.19 | 7.41 | 209.20 | 488.02 | 465.65 | 21.81 | |
| 3200.00 | 3230.19 | 17.55 | 123.78 | 3153.55 | 12.81 | 7.70 | 209.83 | 499.79 | 476.30 | 21.28 | |
| 3300.00 | 3329.35 | 17.55 | 123.78 | 3248.09 | 13.44 | 7.99 | 210.42 | 511.60 | 487.00 | 20.80 | |
| 3400.00 | 3428.51 | 17.55 | 123.78 | 3342.64 | 14.07 | 8.29 | 210.99 | 523.47 | 497.75 | 20.35 | |
| 3500.00 | 3527.67 | 17.55 | 123.78 | 3437.18 | 14.70 | 8.58 | 211.54 | 535.39 | 508.55 | 19.94 | |
| 3600.00 | 3626.83 | 17.55 | 123.78 | 3531.73 | 15.33 | 8.88 | 212.06 | 547.36 | 519.38 | 19.56 | |
| 3700.00 | 3725.99 | 17.55 | 123.78 | 3626.27 | 15.96 | 9.18 | 212.55 | 559.37 | 530.25 | 19.21 | |
| 3800.00 | 3825.15 | 17.55 | 123.78 | 3720.82 | 16.60 | 9.48 | 213.03 | 571.41 | 541.13 | 18.87 | |
| 3900.00 | 3924.31 | 17.55 | 123.78 | 3815.36 | 17.23 | 9.77 | 213.49 | 583.50 | 552.06 | 18.56 | |
| 4000.00 | 4023.48 | 17.55 | 123.78 | 3909.91 | 17.87 | 10.07 | 213.93 | 595.62 | 563.01 | 18.27 | |
| 4100.00 | 4122.64 | 17.55 | 123.78 | 4004.45 | 18.50 | 10.37 | 214.35 | 607.77 | 574.00 | 18.00 | |
| 4200.00 | 4221.80 | 17.55 | 123.78 | 4099.00 | 19.14 | 10.67 | 214.75 | 619.95 | 585.01 | 17.74 | |
| 4300.00 | 4320.96 | 17.55 | 123.78 | 4193.54 | 19.77 | 10.97 | 215.14 | 632.17 | 596.05 | 17.50 | |
| 4400.00 | 4420.12 | 17.55 | 123.78 | 4288.09 | 20.41 | 11.28 | 215.52 | 644.41 | 607.10 | 17.27 | |
| 4500.00 | 4519.28 | 17.55 | 123.78 | 4382.63 | 21.05 | 11.58 | 215.88 | 656.68 | 618.17 | 17.05 | |
| 4600.00 | 4618.44 | 17.55 | 123.78 | 4477.17 | 21.68 | 11.88 | 216.22 | 668.97 | 629.26 | 16.85 | |
| 4700.00 | 4717.61 | 17.55 | 123.78 | 4571.72 | 22.32 | 12.18 | 216.56 | 681.29 | 640.37 | 16.65 | |
| 4800.00 | 4816.77 | 17.55 | 123.78 | 4666.26 | 22.96 | 12.48 | 216.88 | 693.62 | 651.50 | 16.47 | |
| 4900.00 | 4915.93 | 17.55 | 123.78 | 4760.81 | 23.60 | 12.78 | 217.19 | 705.98 | 662.65 | 16.29 | |
| 5000.00 | 5015.09 | 17.55 | 123.78 | 4855.35 | 24.24 | 13.09 | 217.49 | 718.36 | 673.82 | 16.13 | |
| 5100.00 | 5114.25 | 17.55 | 123.78 | 4949.90 | 24.88 | 13.39 | 217.78 | 730.76 | 685.01 | 15.97 | |
| 5200.00 | 5213.41 | 17.55 | 123.78 | 5044.44 | 25.51 | 13.69 | 218.07 | 743.17 | 696.21 | 15.82 | |
| 5300.00 | 5312.57 | 17.55 | 123.78 | 5138.99 | 26.15 | 14.00 | 218.34 | 755.61 | 707.43 | 15.68 | |
| 5400.00 | 5411.74 | 17.55 | 123.78 | 5233.53 | 26.79 | 14.30 | 218.60 | 768.05 | 718.66 | 15.55 | |
| 5500.00 | 5510.90 | 17.55 | 123.78 | 5328.08 | 27.43 | 14.61 | 218.86 | 780.52 | 729.91 | 15.42 | |
| 5600.00 | 5610.06 | 17.55 | 123.78 | 5422.62 | 28.07 | 14.91 | 219.10 | 793.00 | 741.17 | 15.30 | |
| 5700.00 | 5709.22 | 17.55 | 123.78 | 5517.17 | 28.71 | 15.21 | 219.34 | 805.49 | 752.45 | 15.19 | |
| 5800.00 | 5808.38 | 17.55 | 123.78 | 5611.71 | 29.35 | 15.52 | 219.57 | 818.00 | 763.74 | 15.08 | |
| 5900.00 | 5907.54 | 17.55 | 123.78 | 5706.25 | 29.99 | 15.82 | 219.80 | 830.51 | 775.04 | 14.97 | |
| 6000.00 | 6006.70 | 17.55 | 123.78 | 5800.80 | 30.63 | 16.13 | 220.02 | 843.05 | 786.35 | 14.87 | |
| 6100.00 | 6105.87 | 17.55 | 123.78 | 5895.34 | 31.27 | 16.43 | 220.23 | 855.59 | 797.67 | 14.77 | |
| 6200.00 | 6205.03 | 17.55 | 123.78 | 5989.89 | 31.91 | 16.74 | 220.43 | 868.14 | 809.01 | 14.68 | |
| 6300.00 | 6312.06 | 14.49 | 133.78 | 6092.34 | 32.49 | 17.05 | 220.53 | 880.51 | 820.22 | 14.60 | |
| 6400.00 | 6427.60 | 10.54 | 173.61 | 6205.32 | 32.56 | 17.15 | 219.63 | 891.28 | 830.64 | 14.70 | |
| 6500.00 | 6536.54 | 13.15 | 215.24 | 6312.11 | 32.19 | 16.97 | 217.74 | 900.85 | 840.75 | 14.99 | |
| 6600.00 | 6634.99 | 18.92 | 235.05 | 6406.76 | 31.57 | 16.55 | 215.23 | 910.62 | 851.75 | 15.47 | |
| 6700.00 | 6723.83 | 25.10 | 244.50 | 6489.11 | 30.83 | 15.96 | 194.04 | 922.38 | 864.99 | 16.07 | |
| 6800.00 | 6808.01 | 31.31 | 250.08 | 6563.27 | 30.04 | 15.21 | 165.98 | 936.71 | 880.69 | 16.72 | |

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 |
| 6900.00 | 6888.56 | 37.40 | 253.80 | 6629.75 | 29.27 | 14.34 | 141.59 | 952.97 | 898.25 | 17.42 | |
| 7000.00 | 6966.22 | 43.36 | 256.51 | 6688.88 | 28.57 | 13.37 | 124.18 | 970.45 | 916.89 | 18.12 | |
| 7100.00 | 7041.56 | 49.19 | 258.62 | 6740.94 | 28.00 | 12.36 | 112.18 | 988.44 | 935.77 | 18.77 | |
| 7200.00 | 7115.07 | 54.91 | 260.35 | 6786.12 | 27.58 | 11.37 | 103.60 | 1006.28 | 954.12 | 19.29 | |
| 7300.00 | 7187.10 | 60.54 | 261.83 | 6824.57 | 27.32 | 10.47 | 97.25 | 1023.34 | 971.37 | 19.69 | |
| 7400.00 | 7257.95 | 66.09 | 263.13 | 6856.38 | 27.27 | 9.78 | 92.44 | 1039.08 | 986.90 | 19.91 | |
| 7500.00 | 7327.89 | 71.58 | 264.30 | 6881.62 | 27.39 | 9.40 | 88.79 | 1053.01 | 1000.22 | 19.95 | |
| 7600.00 | 7397.12 | 77.01 | 265.39 | 6900.36 | 27.67 | 9.41 | 86.07 | 1064.75 | 1010.97 | 19.80 | |
| 7700.00 | 7465.81 | 82.41 | 266.43 | 6912.62 | 28.14 | 9.87 | 84.15 | 1073.96 | 1018.79 | 19.47 | |
| 7800.00 | 7534.14 | 87.79 | 267.44 | 6918.46 | 28.72 | 10.70 | 82.95 | 1080.41 | 1023.46 | 18.97 | |
| 7900.00 | 7620.95 | 90.00 | 267.85 | 6919.00 | 29.57 | 11.42 | 82.52 | 1083.55 | 1024.74 | 18.43 | |
| 8000.00 | 7720.94 | 90.00 | 267.85 | 6919.00 | 30.71 | 11.92 | 82.53 | 1085.06 | 1024.29 | 17.86 | |
| 8100.00 | 7820.93 | 90.00 | 267.85 | 6919.00 | 32.04 | 12.45 | 82.54 | 1086.57 | 1023.40 | 17.20 | |
| 8200.00 | 7920.91 | 90.00 | 267.85 | 6919.00 | 33.56 | 13.00 | 82.55 | 1088.08 | 1021.95 | 16.45 | |
| 8300.00 | 8020.90 | 90.00 | 267.85 | 6919.00 | 35.24 | 13.58 | 82.56 | 1089.59 | 1020.32 | 15.73 | |
| 8400.00 | 8120.89 | 90.00 | 267.85 | 6919.00 | 37.05 | 14.17 | 82.57 | 1091.09 | 1018.40 | 15.01 | |
| 8500.00 | 8220.88 | 90.00 | 267.85 | 6919.00 | 38.98 | 14.77 | 82.58 | 1092.60 | 1016.14 | 14.29 | |
| 8600.00 | 8320.87 | 90.00 | 267.85 | 6919.00 | 41.01 | 15.39 | 82.59 | 1094.11 | 1013.67 | 13.60 | |
| 8700.00 | 8420.86 | 90.00 | 267.85 | 6919.00 | 43.12 | 16.02 | 82.61 | 1095.62 | 1011.06 | 12.96 | |
| 8800.00 | 8520.84 | 90.00 | 267.85 | 6919.00 | 45.31 | 16.66 | 82.62 | 1097.13 | 1008.31 | 12.35 | |
| 8900.00 | 8620.83 | 90.00 | 267.85 | 6919.00 | 47.57 | 17.30 | 82.63 | 1098.64 | 1005.55 | 11.80 | |
| 9000.00 | 8720.82 | 90.00 | 267.85 | 6919.00 | 49.88 | 17.96 | 82.64 | 1100.15 | 1002.48 | 11.26 | |
| 9100.00 | 8820.81 | 90.00 | 267.85 | 6919.00 | 52.23 | 18.61 | 82.65 | 1101.66 | 999.36 | 10.77 | |
| 9200.00 | 8920.80 | 90.00 | 267.85 | 6919.00 | 54.63 | 19.28 | 82.66 | 1103.17 | 996.17 | 10.31 | |
| 9300.00 | 9020.79 | 90.00 | 267.85 | 6919.00 | 57.07 | 19.95 | 82.67 | 1104.68 | 992.92 | 9.88 | |
| 9400.00 | 9120.77 | 90.00 | 267.85 | 6919.00 | 59.54 | 20.62 | 82.68 | 1106.19 | 989.56 | 9.48 | |
| 9500.00 | 9220.76 | 90.00 | 267.85 | 6919.00 | 62.04 | 21.30 | 82.69 | 1107.70 | 986.15 | 9.11 | |
| 9600.00 | 9320.75 | 90.00 | 267.85 | 6919.00 | 64.56 | 21.98 | 82.70 | 1109.21 | 982.69 | 8.77 | |
| 9700.00 | 9420.74 | 90.00 | 267.85 | 6919.00 | 67.11 | 22.66 | 82.71 | 1110.72 | 979.18 | 8.44 | |
| 9800.00 | 9520.73 | 90.00 | 267.85 | 6919.00 | 69.67 | 23.35 | 82.72 | 1112.23 | 975.63 | 8.14 | |
| 9900.00 | 9620.72 | 90.00 | 267.85 | 6919.00 | 72.26 | 24.04 | 82.73 | 1113.74 | 972.05 | 7.86 | |
| 10000.00 | 9720.71 | 90.00 | 267.85 | 6919.00 | 74.85 | 24.73 | 82.74 | 1115.25 | 968.44 | 7.60 | |
| 10100.00 | 9820.69 | 90.00 | 267.85 | 6919.00 | 77.47 | 25.42 | 82.75 | 1116.76 | 964.80 | 7.35 | |
| 10200.00 | 9920.68 | 90.00 | 267.85 | 6919.00 | 80.09 | 26.12 | 82.76 | 1118.27 | 961.13 | 7.12 | |
| 10300.00 | 10020.67 | 90.00 | 267.85 | 6919.00 | 82.73 | 26.82 | 82.77 | 1119.78 | 957.44 | 6.90 | |
| 10400.00 | 10120.66 | 90.00 | 267.85 | 6919.00 | 85.38 | 27.52 | 82.78 | 1121.29 | 953.73 | 6.69 | |
| 10500.00 | 10220.65 | 90.00 | 267.85 | 6919.00 | 88.04 | 28.22 | 82.78 | 1122.80 | 949.98 | 6.50 | |
| 10600.00 | 10320.64 | 90.00 | 267.85 | 6919.00 | 90.70 | 28.92 | 82.79 | 1124.31 | 946.19 | 6.31 | |
| 10700.00 | 10420.62 | 90.00 | 267.85 | 6919.00 | 93.38 | 29.62 | 82.80 | 1125.82 | 942.38 | 6.14 | |
| 10800.00 | 10520.61 | 90.00 | 267.85 | 6919.00 | 96.06 | 30.33 | 82.81 | 1127.33 | 938.56 | 5.97 | |
| 10900.00 | 10620.60 | 90.00 | 267.85 | 6919.00 | 98.75 | 31.04 | 82.82 | 1128.84 | 934.72 | 5.82 | |
| 11000.00 | 10720.59 | 90.00 | 267.85 | 6919.00 | 101.44 | 31.74 | 82.83 | 1130.35 | 930.88 | 5.67 | |
| 11100.00 | 10820.58 | 90.00 | 267.85 | 6919.00 | 104.14 | 32.45 | 82.84 | 1131.86 | 927.02 | 5.53 | |
| 11200.00 | 10920.57 | 90.00 | 267.85 | 6919.00 | 106.85 | 33.16 | 82.85 | 1133.37 | 923.15 | 5.39 | |
| 11300.00 | 11020.55 | 90.00 | 267.85 | 6919.00 | 109.56 | 33.88 | 82.86 | 1134.88 | 919.27 | 5.26 | |
| 11400.00 | 11120.54 | 90.00 | 267.85 | 6919.00 | 112.28 | 34.59 | 82.87 | 1136.39 | 915.39 | 5.14 | |
| 11500.00 | 11220.53 | 90.00 | 267.85 | 6919.00 | 115.00 | 35.30 | 82.88 | 1137.90 | 911.49 | 5.03 | |
| 11600.00 | 11320.52 | 90.00 | 267.85 | 6919.00 | 117.72 | 36.01 | 82.89 | 1139.41 | 907.59 | 4.91 | |
| 11700.00 | 11420.51 | 90.00 | 267.85 | 6919.00 | 120.45 | 36.73 | 82.90 | 1140.92 | 903.68 | 4.81 | |
| 11800.00 | 11520.50 | 90.00 | 267.85 | 6919.00 | 123.18 | 37.44 | 82.91 | 1142.44 | 899.76 | 4.71 | |
| 11900.00 | 11620.49 | 90.00 | 267.85 | 6919.00 | 125.91 | 38.16 | 82.92 | 1143.95 | 895.84 | 4.61 | |
| 12000.00 | 11720.47 | 90.00 | 267.85 | 6919.00 | 128.65 | 38.87 | 82.93 | 1145.46 | 891.91 | 4.52 | |
| 12100.00 | 11820.46 | 90.00 | 267.85 | 6919.00 | 131.39 | 39.59 | 82.94 | 1146.97 | 887.98 | 4.43 | |
| 12200.00 | 11920.45 | 90.00 | 267.85 | 6919.00 | 134.13 | 40.31 | 82.95 | 1148.48 | 884.04 | 4.34 | |
| 12300.00 | 12020.44 | 90.00 | 267.85 | 6919.00 | 136.87 | 41.03 | 82.96 | 1149.99 | 880.10 | 4.26 | |
| 12400.00 | 12120.43 | 90.00 | 267.85 | 6919.00 | 139.62 | 41.75 | 82.97 | 1151.50 | 876.15 | 4.18 | |
| 12500.00 | 12220.42 | 90.00 | 267.85 | 6919.00 | 142.37 | 42.46 | 82.97 | 1153.01 | 872.20 | 4.11 | |
| 12600.00 | 12320.40 | 90.00 | 267.85 | 6919.00 | 145.12 | 43.18 | 82.98 | 1154.52 | 868.24 | 4.03 | |

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 |
| 12700.00 | 12420.39 | 90.00 | 267.85 | 6919.00 | 147.87 | 43.90 | 82.99 | 1156.03 | 864.28 | 3.96 | |
| 12800.00 | 12520.38 | 90.00 | 267.85 | 6919.00 | 150.63 | 44.62 | 83.00 | 1157.54 | 860.32 | 3.89 | |
| 12900.00 | 12620.37 | 90.00 | 267.85 | 6919.00 | 153.39 | 45.35 | 83.01 | 1159.05 | 856.35 | 3.83 | |
| 13000.00 | 12720.36 | 90.00 | 267.85 | 6919.00 | 156.14 | 46.07 | 83.02 | 1160.56 | 852.38 | 3.77 | |
| 13100.00 | 12820.35 | 90.00 | 267.85 | 6919.00 | 158.90 | 46.79 | 83.03 | 1162.08 | 848.40 | 3.70 | |
| 13200.00 | 12920.33 | 90.00 | 267.85 | 6919.00 | 161.67 | 47.51 | 83.04 | 1163.59 | 844.43 | 3.65 | |
| 13300.00 | 13020.32 | 90.00 | 267.85 | 6919.00 | 164.43 | 48.23 | 83.05 | 1165.10 | 840.45 | 3.59 | |
| 13400.00 | 13120.31 | 90.00 | 267.85 | 6919.00 | 167.19 | 48.96 | 83.06 | 1166.61 | 836.46 | 3.53 | |
| 13500.00 | 13220.30 | 90.00 | 267.85 | 6919.00 | 169.96 | 49.68 | 83.07 | 1168.12 | 832.48 | 3.48 | |
| 13600.00 | 13320.29 | 90.00 | 267.85 | 6919.00 | 172.72 | 50.40 | 83.08 | 1169.63 | 828.49 | 3.43 | |
| 13700.00 | 13420.28 | 90.00 | 267.85 | 6919.00 | 175.49 | 51.12 | 83.08 | 1171.14 | 824.50 | 3.38 | |
| 13800.00 | 13520.26 | 90.00 | 267.85 | 6919.00 | 178.26 | 51.85 | 83.09 | 1172.65 | 820.51 | 3.33 | |
| 13900.00 | 13620.25 | 90.00 | 267.85 | 6919.00 | 181.03 | 52.57 | 83.10 | 1174.16 | 816.51 | 3.28 | |
| 14000.00 | 13720.24 | 90.00 | 267.85 | 6919.00 | 183.80 | 53.30 | 83.11 | 1175.68 | 812.52 | 3.24 | |
| 14100.00 | 13820.23 | 90.00 | 267.85 | 6919.00 | 186.57 | 54.02 | 83.12 | 1177.19 | 808.52 | 3.19 | |
| 14200.00 | 13920.22 | 90.00 | 267.85 | 6919.00 | 189.35 | 54.75 | 83.13 | 1178.70 | 804.52 | 3.15 | |
| 14300.00 | 14020.21 | 90.00 | 267.85 | 6919.00 | 192.12 | 55.47 | 83.14 | 1180.21 | 800.51 | 3.11 | |
| 14400.00 | 14120.20 | 90.00 | 267.85 | 6919.00 | 194.90 | 56.20 | 83.15 | 1181.72 | 796.51 | 3.07 | |
| 14500.00 | 14220.18 | 90.00 | 267.85 | 6919.00 | 197.67 | 56.92 | 83.16 | 1183.23 | 792.50 | 3.03 | |
| 14600.00 | 14320.17 | 90.00 | 267.85 | 6919.00 | 200.45 | 57.65 | 83.16 | 1184.74 | 788.50 | 2.99 | |
| 14700.00 | 14420.16 | 90.00 | 267.85 | 6919.00 | 203.22 | 58.37 | 83.17 | 1186.25 | 784.49 | 2.95 | |
| 14800.00 | 14520.15 | 90.00 | 267.85 | 6919.00 | 206.00 | 59.10 | 83.18 | 1187.77 | 780.48 | 2.92 | |
| 14900.00 | 14620.14 | 90.00 | 267.85 | 6919.00 | 208.78 | 59.82 | 83.19 | 1189.28 | 776.46 | 2.88 | |
| 15000.00 | 14720.13 | 90.00 | 267.85 | 6919.00 | 211.56 | 60.55 | 83.20 | 1190.79 | 772.45 | 2.85 | |
| 15100.00 | 14820.11 | 90.00 | 267.85 | 6919.00 | 214.34 | 61.28 | 83.21 | 1192.30 | 768.44 | 2.81 | |
| 15200.00 | 14920.10 | 90.00 | 267.85 | 6919.00 | 217.12 | 62.00 | 83.22 | 1193.81 | 764.42 | 2.78 | |
| 15300.00 | 15020.09 | 90.00 | 267.85 | 6919.00 | 219.90 | 62.73 | 83.22 | 1195.32 | 760.40 | 2.75 | |
| 15400.00 | 15120.08 | 90.00 | 267.85 | 6919.00 | 222.68 | 63.46 | 83.23 | 1196.83 | 756.38 | 2.72 | |
| 15500.00 | 15220.07 | 90.00 | 267.85 | 6919.00 | 225.46 | 64.18 | 83.24 | 1198.35 | 752.36 | 2.69 | |
| 15600.00 | 15320.06 | 90.00 | 267.85 | 6919.00 | 228.25 | 64.91 | 83.25 | 1199.86 | 748.34 | 2.66 | |
| 15700.00 | 15420.04 | 90.00 | 267.85 | 6919.00 | 231.03 | 65.64 | 83.26 | 1201.37 | 744.32 | 2.63 | |
| 15768.80 | 15456.59 | 90.00 | 267.85 | 6919.00 | 232.05 | 65.91 | 83.26 | 1202.84 | 743.71 | 2.62 | |
| 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 | 0.15 | 80.15 | 79.42 | 109.30 | |
| 100.00 | 100.00 | 0.00 | 0.00 | 100.00 | 0.11 | 0.11 | 0.15 | 80.15 | 79.20 | 84.02 | |
| 200.00 | 200.00 | 0.00 | 0.00 | 200.00 | 0.34 | 0.34 | 0.15 | 80.15 | 78.75 | 57.11 | |
| 300.00 | 300.00 | 0.00 | 0.00 | 300.00 | 0.56 | 0.56 | 0.15 | 80.15 | 78.30 | 43.25 | |
| 400.00 | 399.98 | 0.00 | 0.00 | 399.98 | 0.79 | 0.79 | 215.33 | 81.57 | 79.29 | 35.78 | |
| 500.00 | 499.84 | 0.00 | 0.00 | 499.84 | 1.01 | 1.01 | 213.36 | 85.89 | 83.19 | 31.75 | |
| 600.00 | 599.45 | 0.00 | 0.00 | 599.45 | 1.24 | 1.24 | 210.49 | 93.30 | 90.15 | 29.64 | |
| 700.00 | 698.70 | 0.00 | 0.00 | 698.70 | 1.46 | 1.46 | 207.19 | 104.00 | 100.38 | 28.77 | |
| 800.00 | 797.47 | 0.00 | 0.00 | 797.47 | 1.68 | 1.68 | 203.84 | 118.15 | 114.07 | 28.91 | |
| 900.00 | 897.40 | 0.95 | 127.01 | 897.40 | 1.89 | 1.89 | 200.77 | 135.56 | 131.01 | 29.76 | |
| 1000.00 | 999.69 | 2.99 | 127.01 | 999.62 | 2.09 | 2.08 | 198.61 | 154.09 | 149.08 | 30.79 | |
| 1100.00 | 1102.61 | 5.05 | 127.01 | 1102.29 | 2.29 | 2.28 | 197.26 | 173.14 | 167.67 | 31.65 | |
| 1200.00 | 1206.18 | 7.12 | 127.01 | 1205.26 | 2.53 | 2.48 | 196.50 | 192.60 | 186.62 | 32.19 | |
| 1300.00 | 1310.37 | 9.21 | 127.01 | 1308.39 | 2.80 | 2.69 | 196.18 | 212.39 | 205.88 | 32.62 | |
| 1400.00 | 1415.29 | 11.31 | 127.01 | 1411.63 | 3.11 | 2.91 | 196.17 | 231.95 | 224.86 | 32.70 | |
| 1500.00 | 1521.32 | 13.43 | 127.01 | 1515.19 | 3.49 | 3.14 | 196.59 | 248.79 | 241.07 | 32.26 | |
| 1600.00 | 1628.27 | 15.57 | 127.01 | 1618.73 | 3.95 | 3.38 | 197.43 | 262.58 | 254.17 | 31.25 | |
| 1700.00 | 1734.55 | 17.39 | 127.01 | 1720.58 | 4.47 | 3.63 | 198.65 | 273.40 | 264.23 | 29.83 | |
| 1800.00 | 1833.90 | 17.39 | 127.01 | 1815.38 | 5.01 | 3.89 | 199.85 | 283.24 | 273.25 | 28.37 | |
| 1900.00 | 1933.24 | 17.39 | 127.01 | 1910.19 | 5.56 | 4.15 | 200.98 | 293.19 | 282.36 | 27.07 | |
| 2000.00 | 2032.58 | 17.39 | 127.01 | 2004.99 | 6.14 | 4.42 | 202.04 | 303.26 | 291.55 | 25.90 | |
| 2100.00 | 2131.92 | 17.39 | 127.01 | 2099.80 | 6.72 | 4.69 | 203.02 | 313.41 | 300.78 | 24.82 | |

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 |
| 2200.00 | 2231.27 | 17.39 | 127.01 | 2194.60 | 7.32 | 4.97 | 203.94 | 323.66 | 310.09 | 23.86 | |
| 2300.00 | 2330.61 | 17.39 | 127.01 | 2289.40 | 7.92 | 5.25 | 204.81 | 333.98 | 319.45 | 22.98 | |
| 2400.00 | 2429.95 | 17.39 | 127.01 | 2384.21 | 8.52 | 5.54 | 205.62 | 344.37 | 328.86 | 22.20 | |
| 2500.00 | 2529.29 | 17.39 | 127.01 | 2479.01 | 9.14 | 5.82 | 206.39 | 354.83 | 338.34 | 21.51 | |
| 2600.00 | 2628.64 | 17.39 | 127.01 | 2573.82 | 9.75 | 6.11 | 207.11 | 365.35 | 347.84 | 20.86 | |
| 2700.00 | 2727.98 | 17.39 | 127.01 | 2668.62 | 10.37 | 6.40 | 207.80 | 375.92 | 357.38 | 20.27 | |
| 2800.00 | 2827.32 | 17.39 | 127.01 | 2763.42 | 10.99 | 6.69 | 208.44 | 386.54 | 366.94 | 19.72 | |
| 2900.00 | 2926.66 | 17.39 | 127.01 | 2858.23 | 11.61 | 6.98 | 209.05 | 397.21 | 376.53 | 19.21 | |
| 3000.00 | 3026.01 | 17.39 | 127.01 | 2953.03 | 12.23 | 7.28 | 209.63 | 407.92 | 386.17 | 18.75 | |
| 3100.00 | 3125.35 | 17.39 | 127.01 | 3047.84 | 12.86 | 7.57 | 210.18 | 418.67 | 395.83 | 18.33 | |
| 3200.00 | 3224.69 | 17.39 | 127.01 | 3142.64 | 13.48 | 7.87 | 210.70 | 429.46 | 405.53 | 17.95 | |
| 3300.00 | 3324.03 | 17.39 | 127.01 | 3237.45 | 14.11 | 8.17 | 211.20 | 440.28 | 415.25 | 17.60 | |
| 3400.00 | 3423.38 | 17.39 | 127.01 | 3332.25 | 14.74 | 8.46 | 211.67 | 451.13 | 425.01 | 17.27 | |
| 3500.00 | 3522.72 | 17.39 | 127.01 | 3427.05 | 15.36 | 8.76 | 212.12 | 462.00 | 434.78 | 16.97 | |
| 3600.00 | 3622.06 | 17.39 | 127.01 | 3521.86 | 15.99 | 9.06 | 212.55 | 472.91 | 444.59 | 16.70 | |
| 3700.00 | 3721.40 | 17.39 | 127.01 | 3616.66 | 16.62 | 9.36 | 212.96 | 483.84 | 454.41 | 16.44 | |
| 3800.00 | 3820.75 | 17.39 | 127.01 | 3711.47 | 17.26 | 9.66 | 213.35 | 494.80 | 464.25 | 16.20 | |
| 3900.00 | 3920.09 | 17.39 | 127.01 | 3806.27 | 17.89 | 9.96 | 213.73 | 505.77 | 474.12 | 15.98 | |
| 4000.00 | 4019.43 | 17.39 | 127.01 | 3901.08 | 18.52 | 10.26 | 214.08 | 516.77 | 484.00 | 15.77 | |
| 4100.00 | 4118.77 | 17.39 | 127.01 | 3995.88 | 19.15 | 10.56 | 214.43 | 527.78 | 493.89 | 15.57 | |
| 4200.00 | 4218.12 | 17.39 | 127.01 | 4090.68 | 19.78 | 10.86 | 214.76 | 538.82 | 503.79 | 15.38 | |
| 4300.00 | 4317.46 | 17.39 | 127.01 | 4185.49 | 20.42 | 11.17 | 215.08 | 549.87 | 513.70 | 15.20 | |
| 4400.00 | 4416.80 | 17.39 | 127.01 | 4280.29 | 21.05 | 11.47 | 215.38 | 560.94 | 523.63 | 15.03 | |
| 4500.00 | 4516.14 | 17.39 | 127.01 | 4375.10 | 21.68 | 11.77 | 215.67 | 572.02 | 533.55 | 14.87 | |
| 4600.00 | 4615.49 | 17.39 | 127.01 | 4469.90 | 22.32 | 12.07 | 215.95 | 583.11 | 543.48 | 14.71 | |
| 4700.00 | 4714.83 | 17.39 | 127.01 | 4564.71 | 22.95 | 12.38 | 216.22 | 594.22 | 553.42 | 14.56 | |
| 4800.00 | 4814.17 | 17.39 | 127.01 | 4659.51 | 23.58 | 12.68 | 216.48 | 605.35 | 563.38 | 14.42 | |
| 4900.00 | 4913.51 | 17.39 | 127.01 | 4754.31 | 24.22 | 12.98 | 216.74 | 616.48 | 573.35 | 14.29 | |
| 5000.00 | 5012.86 | 17.39 | 127.01 | 4849.12 | 24.85 | 13.28 | 216.98 | 627.63 | 583.32 | 14.17 | |
| 5100.00 | 5112.20 | 17.39 | 127.01 | 4943.92 | 25.49 | 13.59 | 217.21 | 638.78 | 593.31 | 14.05 | |
| 5200.00 | 5211.54 | 17.39 | 127.01 | 5038.73 | 26.12 | 13.89 | 217.44 | 649.95 | 603.30 | 13.93 | |
| 5300.00 | 5310.88 | 17.39 | 127.01 | 5133.53 | 26.76 | 14.20 | 217.66 | 661.12 | 613.31 | 13.83 | |
| 5400.00 | 5410.23 | 17.39 | 127.01 | 5228.34 | 27.39 | 14.50 | 217.87 | 672.31 | 623.32 | 13.72 | |
| 5500.00 | 5509.57 | 17.39 | 127.01 | 5323.14 | 28.03 | 14.80 | 218.07 | 683.50 | 633.34 | 13.63 | |
| 5600.00 | 5608.91 | 17.39 | 127.01 | 5417.94 | 28.66 | 15.11 | 218.27 | 694.71 | 643.37 | 13.53 | |
| 5700.00 | 5708.25 | 17.39 | 127.01 | 5512.75 | 29.30 | 15.41 | 218.46 | 705.92 | 653.40 | 13.44 | |
| 5800.00 | 5807.60 | 17.39 | 127.01 | 5607.55 | 29.93 | 15.72 | 218.65 | 717.13 | 663.44 | 13.36 | |
| 5900.00 | 5906.94 | 17.39 | 127.01 | 5702.36 | 30.57 | 16.02 | 218.83 | 728.36 | 673.49 | 13.28 | |
| 6000.00 | 6006.28 | 17.39 | 127.01 | 5797.16 | 31.21 | 16.33 | 219.00 | 739.59 | 683.55 | 13.20 | |
| 6100.00 | 6105.62 | 17.39 | 127.01 | 5891.96 | 31.84 | 16.63 | 219.17 | 750.83 | 693.61 | 13.12 | |
| 6200.00 | 6204.97 | 17.39 | 127.01 | 5986.77 | 32.48 | 16.94 | 219.33 | 762.07 | 703.67 | 13.05 | |
| 6300.00 | 6304.31 | 17.39 | 127.01 | 6081.57 | 33.11 | 17.24 | 219.49 | 773.32 | 713.75 | 12.98 | |
| 6400.00 | 6415.14 | 13.42 | 145.16 | 6188.12 | 33.61 | 17.54 | 219.36 | 784.09 | 723.54 | 12.95 | |
| 6500.00 | 6529.00 | 11.75 | 187.25 | 6299.48 | 33.49 | 17.59 | 218.01 | 793.01 | 732.56 | 13.12 | |
| 6600.00 | 6635.01 | 15.69 | 219.64 | 6402.59 | 32.92 | 17.39 | 215.65 | 801.01 | 741.64 | 13.49 | |
| 6700.00 | 6732.25 | 21.68 | 235.37 | 6494.72 | 32.09 | 16.97 | 194.59 | 809.94 | 752.03 | 13.99 | |
| 6800.00 | 6824.54 | 28.16 | 243.85 | 6578.39 | 31.11 | 16.35 | 166.69 | 820.65 | 764.20 | 14.54 | |
| 6900.00 | 6912.79 | 34.67 | 249.11 | 6653.68 | 30.08 | 15.55 | 142.49 | 832.74 | 777.75 | 15.14 | |
| 7000.00 | 6997.70 | 41.09 | 252.74 | 6720.67 | 29.10 | 14.59 | 125.28 | 845.71 | 792.08 | 15.77 | |
| 7100.00 | 7079.88 | 47.39 | 255.45 | 6779.52 | 28.26 | 13.51 | 113.46 | 859.05 | 806.40 | 16.32 | |
| 7200.00 | 7159.79 | 53.56 | 257.61 | 6830.36 | 27.62 | 12.37 | 105.07 | 872.22 | 820.25 | 16.78 | |
| 7300.00 | 7237.86 | 59.62 | 259.41 | 6873.32 | 27.20 | 11.26 | 98.88 | 884.75 | 833.02 | 17.10 | |
| 7400.00 | 7314.41 | 65.59 | 260.97 | 6908.53 | 27.01 | 10.31 | 94.21 | 896.17 | 844.33 | 17.29 | |
| 7500.00 | 7389.74 | 71.48 | 262.36 | 6936.08 | 27.08 | 9.69 | 90.67 | 906.10 | 853.71 | 17.29 | |
| 7600.00 | 7464.07 | 77.29 | 263.64 | 6956.09 | 27.38 | 9.57 | 88.04 | 914.20 | 860.71 | 17.09 | |
| 7700.00 | 7537.64 | 83.06 | 264.86 | 6968.64 | 27.87 | 10.00 | 86.19 | 920.20 | 865.21 | 16.73 | |
| 7800.00 | 7610.63 | 88.78 | 266.03 | 6973.83 | 28.49 | 10.94 | 85.03 | 923.90 | 867.08 | 16.26 | |
| 7900.00 | 7704.70 | 90.00 | 266.28 | 6974.00 | 29.43 | 11.58 | 84.66 | 924.36 | 865.81 | 15.79 | |

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 |
| 8000.00 | 7804.69 | 90.00 | 266.28 | 6974.00 | 30.61 | 12.09 | 84.65 | 923.16 | 862.56 | 15.23 | |
| 8100.00 | 7904.69 | 90.00 | 266.28 | 6974.00 | 31.98 | 12.62 | 84.65 | 921.96 | 858.64 | 14.56 | |
| 8200.00 | 8004.68 | 90.00 | 266.28 | 6974.00 | 33.53 | 13.18 | 84.64 | 920.76 | 854.61 | 13.92 | |
| 8300.00 | 8104.67 | 90.00 | 266.28 | 6974.00 | 35.24 | 13.76 | 84.63 | 919.55 | 850.02 | 13.22 | |
| 8400.00 | 8204.67 | 90.00 | 266.28 | 6974.00 | 37.07 | 14.36 | 84.63 | 918.35 | 845.35 | 12.58 | |
| 8500.00 | 8304.66 | 90.00 | 266.28 | 6974.00 | 39.02 | 14.98 | 84.62 | 917.15 | 840.32 | 11.94 | |
| 8600.00 | 8404.65 | 90.00 | 266.28 | 6974.00 | 41.07 | 15.60 | 84.61 | 915.95 | 835.09 | 11.33 | |
| 8700.00 | 8504.64 | 90.00 | 266.28 | 6974.00 | 43.20 | 16.24 | 84.60 | 914.75 | 829.74 | 10.76 | |
| 8800.00 | 8604.64 | 90.00 | 266.28 | 6974.00 | 45.40 | 16.88 | 84.60 | 913.55 | 824.20 | 10.22 | |
| 8900.00 | 8704.63 | 90.00 | 266.28 | 6974.00 | 47.66 | 17.53 | 84.59 | 912.35 | 818.68 | 9.74 | |
| 9000.00 | 8804.62 | 90.00 | 266.28 | 6974.00 | 49.98 | 18.19 | 84.58 | 911.15 | 812.93 | 9.28 | |
| 9100.00 | 8904.61 | 90.00 | 266.28 | 6974.00 | 52.34 | 18.85 | 84.58 | 909.94 | 807.02 | 8.84 | |
| 9200.00 | 9004.61 | 90.00 | 266.28 | 6974.00 | 54.75 | 19.52 | 84.57 | 908.74 | 801.05 | 8.44 | |
| 9300.00 | 9104.60 | 90.00 | 266.28 | 6974.00 | 57.19 | 20.19 | 84.56 | 907.54 | 795.02 | 8.07 | |
| 9400.00 | 9204.59 | 90.00 | 266.28 | 6974.00 | 59.66 | 20.87 | 84.55 | 906.34 | 788.92 | 7.72 | |
| 9500.00 | 9304.59 | 90.00 | 266.28 | 6974.00 | 62.16 | 21.55 | 84.55 | 905.14 | 782.78 | 7.40 | |
| 9600.00 | 9404.58 | 90.00 | 266.28 | 6974.00 | 64.69 | 22.23 | 84.54 | 903.94 | 776.58 | 7.10 | |
| 9700.00 | 9504.57 | 90.00 | 266.28 | 6974.00 | 67.23 | 22.92 | 84.53 | 902.74 | 770.35 | 6.82 | |
| 9800.00 | 9604.56 | 90.00 | 266.28 | 6974.00 | 69.80 | 23.60 | 84.53 | 901.54 | 764.08 | 6.56 | |
| 9900.00 | 9704.56 | 90.00 | 266.28 | 6974.00 | 72.38 | 24.30 | 84.52 | 900.33 | 757.77 | 6.32 | |
| 10000.00 | 9804.55 | 90.00 | 266.28 | 6974.00 | 74.97 | 24.99 | 84.51 | 899.13 | 751.42 | 6.09 | |
| 10100.00 | 9904.54 | 90.00 | 266.28 | 6974.00 | 77.59 | 25.68 | 84.50 | 897.93 | 745.01 | 5.87 | |
| 10200.00 | 10004.53 | 90.00 | 266.28 | 6974.00 | 80.21 | 26.38 | 84.50 | 896.73 | 738.57 | 5.67 | |
| 10300.00 | 10104.53 | 90.00 | 266.28 | 6974.00 | 82.84 | 27.08 | 84.49 | 895.53 | 732.12 | 5.48 | |
| 10400.00 | 10204.52 | 90.00 | 266.28 | 6974.00 | 85.49 | 27.78 | 84.48 | 894.33 | 725.64 | 5.30 | |
| 10500.00 | 10304.51 | 90.00 | 266.28 | 6974.00 | 88.14 | 28.48 | 84.47 | 893.13 | 719.14 | 5.13 | |
| 10600.00 | 10404.51 | 90.00 | 266.28 | 6974.00 | 90.81 | 29.19 | 84.47 | 891.93 | 712.63 | 4.97 | |
| 10700.00 | 10504.50 | 90.00 | 266.28 | 6974.00 | 93.48 | 29.89 | 84.46 | 890.73 | 706.11 | 4.82 | |
| 10800.00 | 10604.49 | 90.00 | 266.28 | 6974.00 | 96.15 | 30.60 | 84.45 | 889.53 | 699.57 | 4.68 | |
| 10900.00 | 10704.48 | 90.00 | 266.28 | 6974.00 | 98.84 | 31.31 | 84.44 | 888.32 | 693.01 | 4.55 | |
| 11000.00 | 10804.48 | 90.00 | 266.28 | 6974.00 | 101.53 | 32.01 | 84.44 | 887.12 | 686.45 | 4.42 | |
| 11100.00 | 10904.47 | 90.00 | 266.28 | 6974.00 | 104.22 | 32.72 | 84.43 | 885.92 | 679.88 | 4.30 | |
| 11200.00 | 11004.46 | 90.00 | 266.28 | 6974.00 | 106.93 | 33.43 | 84.42 | 884.72 | 673.29 | 4.18 | |
| 11300.00 | 11104.45 | 90.00 | 266.28 | 6974.00 | 109.63 | 34.15 | 84.41 | 883.52 | 666.70 | 4.07 | |
| 11400.00 | 11204.45 | 90.00 | 266.28 | 6974.00 | 112.34 | 34.86 | 84.41 | 882.32 | 660.10 | 3.97 | |
| 11500.00 | 11304.44 | 90.00 | 266.28 | 6974.00 | 115.06 | 35.57 | 84.40 | 881.12 | 653.49 | 3.87 | |
| 11600.00 | 11404.43 | 90.00 | 266.28 | 6974.00 | 117.77 | 36.29 | 84.39 | 879.92 | 646.87 | 3.78 | |
| 11700.00 | 11504.43 | 90.00 | 266.28 | 6974.00 | 120.50 | 37.00 | 84.38 | 878.72 | 640.25 | 3.68 | |
| 11800.00 | 11604.42 | 90.00 | 266.28 | 6974.00 | 123.22 | 37.72 | 84.38 | 877.52 | 633.62 | 3.60 | |
| 11900.00 | 11704.41 | 90.00 | 266.28 | 6974.00 | 125.95 | 38.43 | 84.37 | 876.32 | 626.99 | 3.51 | |
| 12000.00 | 11804.40 | 90.00 | 266.28 | 6974.00 | 128.68 | 39.15 | 84.36 | 875.11 | 620.35 | 3.43 | |
| 12100.00 | 11904.40 | 90.00 | 266.28 | 6974.00 | 131.41 | 39.87 | 84.35 | 873.91 | 613.70 | 3.36 | |
| 12200.00 | 12004.39 | 90.00 | 266.28 | 6974.00 | 134.15 | 40.58 | 84.34 | 872.71 | 607.05 | 3.29 | |
| 12300.00 | 12104.38 | 90.00 | 266.28 | 6974.00 | 136.89 | 41.30 | 84.34 | 871.51 | 600.40 | 3.21 | |
| 12400.00 | 12204.37 | 90.00 | 266.28 | 6974.00 | 139.63 | 42.02 | 84.33 | 870.31 | 593.74 | 3.15 | |
| 12500.00 | 12304.37 | 90.00 | 266.28 | 6974.00 | 142.37 | 42.74 | 84.32 | 869.11 | 587.08 | 3.08 | |
| 12600.00 | 12404.36 | 90.00 | 266.28 | 6974.00 | 145.12 | 43.46 | 84.31 | 867.91 | 580.41 | 3.02 | |
| 12700.00 | 12504.35 | 90.00 | 266.28 | 6974.00 | 147.86 | 44.18 | 84.30 | 866.71 | 573.74 | 2.96 | |
| 12800.00 | 12604.35 | 90.00 | 266.28 | 6974.00 | 150.61 | 44.90 | 84.30 | 865.51 | 567.07 | 2.90 | |
| 12900.00 | 12704.34 | 90.00 | 266.28 | 6974.00 | 153.36 | 45.62 | 84.29 | 864.31 | 560.40 | 2.84 | |
| 13000.00 | 12804.33 | 90.00 | 266.28 | 6974.00 | 156.12 | 46.34 | 84.28 | 863.11 | 553.72 | 2.79 | |
| 13100.00 | 12904.32 | 90.00 | 266.28 | 6974.00 | 158.87 | 47.06 | 84.27 | 861.91 | 547.04 | 2.74 | |
| 13200.00 | 13004.32 | 90.00 | 266.28 | 6974.00 | 161.62 | 47.79 | 84.27 | 860.71 | 540.35 | 2.69 | |
| 13300.00 | 13104.31 | 90.00 | 266.28 | 6974.00 | 164.38 | 48.51 | 84.26 | 859.51 | 533.67 | 2.64 | |
| 13400.00 | 13204.30 | 90.00 | 266.28 | 6974.00 | 167.14 | 49.23 | 84.25 | 858.31 | 526.98 | 2.59 | |
| 13500.00 | 13304.29 | 90.00 | 266.28 | 6974.00 | 169.90 | 49.95 | 84.24 | 857.10 | 520.29 | 2.54 | |
| 13600.00 | 13404.29 | 90.00 | 266.28 | 6974.00 | 172.66 | 50.68 | 84.23 | 855.90 | 513.59 | 2.50 | |
| 13700.00 | 13504.28 | 90.00 | 266.28 | 6974.00 | 175.42 | 51.40 | 84.22 | 854.70 | 506.90 | 2.46 | SF(L0) |

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 |
| 13800.00 | 13604.27 | 90.00 | 266.28 | 6974.00 | 178.18 | 52.12 | 84.22 | 853.50 | 500.20 | 2.42 | SF(Lo) |
| 13900.00 | 13704.27 | 90.00 | 266.28 | 6974.00 | 180.94 | 52.85 | 84.21 | 852.30 | 493.50 | 2.38 | SF(Lo) |
| 14000.00 | 13804.26 | 90.00 | 266.28 | 6974.00 | 183.71 | 53.57 | 84.20 | 851.10 | 486.80 | 2.34 | SF(Lo) |
| 14100.00 | 13904.25 | 90.00 | 266.28 | 6974.00 | 186.47 | 54.30 | 84.19 | 849.90 | 480.10 | 2.30 | SF(Lo) |
| 14200.00 | 14004.24 | 90.00 | 266.28 | 6974.00 | 189.24 | 55.02 | 84.18 | 848.70 | 473.40 | 2.26 | SF(Lo) |
| 14300.00 | 14104.24 | 90.00 | 266.28 | 6974.00 | 192.01 | 55.75 | 84.18 | 847.50 | 466.69 | 2.23 | SF(Lo) |
| 14400.00 | 14204.23 | 90.00 | 266.28 | 6974.00 | 194.78 | 56.47 | 84.17 | 846.30 | 459.99 | 2.19 | SF(Lo) |
| 14500.00 | 14304.22 | 90.00 | 266.28 | 6974.00 | 197.54 | 57.20 | 84.16 | 845.10 | 453.28 | 2.16 | SF(Lo) |
| 14600.00 | 14404.21 | 90.00 | 266.28 | 6974.00 | 200.31 | 57.92 | 84.15 | 843.90 | 446.57 | 2.12 | SF(Lo) |
| 14700.00 | 14504.21 | 90.00 | 266.28 | 6974.00 | 203.08 | 58.65 | 84.14 | 842.70 | 439.86 | 2.09 | SF(Lo) |
| 14800.00 | 14604.20 | 90.00 | 266.28 | 6974.00 | 205.85 | 59.38 | 84.13 | 841.50 | 433.15 | 2.06 | SF(Lo) |
| 14900.00 | 14704.19 | 90.00 | 266.28 | 6974.00 | 208.63 | 60.10 | 84.13 | 840.30 | 426.44 | 2.03 | SF(Lo) |
| 15000.00 | 14804.18 | 90.00 | 266.28 | 6974.00 | 211.40 | 60.83 | 84.12 | 839.10 | 419.72 | 2.00 | SF(Lo) |
| 15100.00 | 14904.18 | 90.00 | 266.28 | 6974.00 | 214.17 | 61.55 | 84.11 | 837.90 | 413.01 | 1.97 | SF(Lo) |
| 15200.00 | 15004.17 | 90.00 | 266.28 | 6974.00 | 216.94 | 62.28 | 84.10 | 836.70 | 406.29 | 1.94 | SF(Lo) |
| 15300.00 | 15104.16 | 90.00 | 266.28 | 6974.00 | 219.72 | 63.01 | 84.09 | 835.50 | 399.58 | 1.92 | SF(Lo) |
| 15400.00 | 15204.16 | 90.00 | 266.28 | 6974.00 | 222.49 | 63.73 | 84.08 | 834.30 | 392.86 | 1.89 | SF(Lo) |
| 15500.00 | 15286.68 | 90.00 | 266.28 | 6974.00 | 224.78 | 64.33 | 84.08 | 833.28 | 387.33 | 1.87 | SF(Lo) |
| 15600.00 | 15286.68 | 90.00 | 266.28 | 6974.00 | 224.78 | 64.33 | 84.08 | 840.15 | 398.12 | 1.90 | SF(Lo) |
| 15700.00 | 15286.68 | 90.00 | 266.28 | 6974.00 | 224.78 | 64.33 | 84.08 | 858.69 | 426.47 | 1.99 | SF(Lo) |
| 15768.80 | 15286.68 | 90.00 | 266.28 | 6974.00 | 224.78 | 64.33 | 84.08 | 877.85 | 455.25 | 2.08 | SF(Lo) |
| 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 | 0.08 | 60.11 | 59.38 | 81.97 | CC (Lo) |
| 100.00 | 100.00 | 0.00 | 0.00 | 100.00 | 0.11 | 0.11 | 0.08 | 60.11 | 59.16 | 63.01 | CC (Lo) |
| 200.00 | 200.00 | 0.00 | 0.00 | 200.00 | 0.34 | 0.34 | 0.08 | 60.11 | 58.71 | 42.83 | CC (Lo) |
| 300.00 | 300.00 | 0.00 | 0.00 | 300.00 | 0.56 | 0.56 | 0.08 | 60.11 | 58.26 | 32.44 | CC (Lo) |
| 400.00 | 399.98 | 0.00 | 0.00 | 399.98 | 0.79 | 0.79 | 215.03 | 61.53 | 59.25 | 26.99 | CC (Lo) |
| 500.00 | 499.84 | 0.00 | 0.00 | 499.84 | 1.01 | 1.01 | 212.46 | 65.89 | 63.18 | 24.37 | |
| 600.00 | 599.45 | 0.00 | 0.00 | 599.45 | 1.24 | 1.24 | 208.88 | 73.40 | 70.24 | 23.28 | |
| 700.00 | 698.70 | 0.00 | 0.00 | 698.70 | 1.46 | 1.46 | 204.98 | 84.28 | 80.67 | 23.32 | |
| 800.00 | 798.87 | 0.98 | 131.86 | 798.87 | 1.67 | 1.67 | 201.33 | 98.37 | 94.30 | 24.22 | |
| 900.00 | 900.82 | 3.02 | 131.86 | 900.75 | 1.86 | 1.86 | 198.81 | 113.41 | 108.91 | 25.20 | |
| 1000.00 | 1003.32 | 5.07 | 131.86 | 1002.99 | 2.07 | 2.05 | 197.22 | 128.85 | 123.89 | 25.99 | |
| 1100.00 | 1106.36 | 7.13 | 131.86 | 1105.44 | 2.30 | 2.26 | 196.28 | 144.55 | 139.10 | 26.55 | |
| 1200.00 | 1209.95 | 9.20 | 131.86 | 1207.98 | 2.58 | 2.47 | 195.80 | 160.44 | 154.49 | 26.93 | |
| 1300.00 | 1314.08 | 11.28 | 131.86 | 1310.44 | 2.90 | 2.69 | 195.67 | 176.50 | 169.99 | 27.12 | |
| 1400.00 | 1418.82 | 13.38 | 131.86 | 1412.76 | 3.28 | 2.92 | 195.81 | 192.16 | 185.06 | 27.07 | |
| 1500.00 | 1524.47 | 15.49 | 131.86 | 1515.07 | 3.74 | 3.16 | 196.37 | 204.93 | 197.19 | 26.47 | |
| 1600.00 | 1630.79 | 17.62 | 131.86 | 1616.98 | 4.28 | 3.42 | 197.37 | 214.50 | 206.03 | 25.33 | |
| 1700.00 | 1734.91 | 18.97 | 131.86 | 1715.70 | 4.87 | 3.68 | 198.72 | 221.13 | 211.88 | 23.91 | |
| 1800.00 | 1834.59 | 18.97 | 131.86 | 1809.96 | 5.48 | 3.95 | 200.04 | 227.23 | 217.12 | 22.49 | |
| 1900.00 | 1934.27 | 18.97 | 131.86 | 1904.23 | 6.11 | 4.23 | 201.30 | 233.44 | 222.46 | 21.26 | |
| 2000.00 | 2033.95 | 18.97 | 131.86 | 1998.50 | 6.75 | 4.52 | 202.48 | 239.76 | 227.87 | 20.16 | |
| 2100.00 | 2133.63 | 18.97 | 131.86 | 2092.76 | 7.40 | 4.81 | 203.61 | 246.18 | 233.31 | 19.14 | |
| 2200.00 | 2233.31 | 18.97 | 131.86 | 2187.03 | 8.05 | 5.10 | 204.67 | 252.68 | 238.83 | 18.23 | |
| 2300.00 | 2332.99 | 18.97 | 131.86 | 2281.29 | 8.71 | 5.40 | 205.69 | 259.27 | 244.39 | 17.42 | |
| 2400.00 | 2432.67 | 18.97 | 131.86 | 2375.56 | 9.38 | 5.70 | 206.65 | 265.94 | 250.02 | 16.71 | |
| 2500.00 | 2532.35 | 18.97 | 131.86 | 2469.83 | 10.05 | 6.00 | 207.57 | 272.68 | 255.71 | 16.07 | |
| 2600.00 | 2632.03 | 18.97 | 131.86 | 2564.09 | 10.72 | 6.31 | 208.44 | 279.48 | 261.44 | 15.49 | |
| 2700.00 | 2731.71 | 18.97 | 131.86 | 2658.36 | 11.40 | 6.61 | 209.27 | 286.35 | 267.19 | 14.94 | |
| 2800.00 | 2831.39 | 18.97 | 131.86 | 2752.62 | 12.08 | 6.92 | 210.06 | 293.27 | 272.97 | 14.44 | |
| 2900.00 | 2931.07 | 18.97 | 131.86 | 2846.89 | 12.76 | 7.23 | 210.81 | 300.24 | 278.79 | 13.99 | |
| 3000.00 | 3030.75 | 18.97 | 131.86 | 2941.16 | 13.44 | 7.54 | 211.53 | 307.27 | 284.65 | 13.59 | |
| 3100.00 | 3130.43 | 18.97 | 131.86 | 3035.42 | 14.12 | 7.85 | 212.22 | 314.34 | 290.56 | 13.22 | |
| 3200.00 | 3230.11 | 18.97 | 131.86 | 3129.69 | 14.80 | 8.16 | 212.88 | 321.45 | 296.50 | 12.88 | |

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 |
| 3300.00 | 3329.79 | 18.97 | 131.86 | 3223.96 | 15.48 | 8.47 | 213.51 | 328.61 | 302.47 | 12.57 | |
| 3400.00 | 3429.47 | 18.97 | 131.86 | 3318.22 | 16.17 | 8.78 | 214.11 | 335.80 | 308.48 | 12.29 | |
| 3500.00 | 3529.15 | 18.97 | 131.86 | 3412.49 | 16.85 | 9.10 | 214.69 | 343.03 | 314.52 | 12.03 | |
| 3600.00 | 3628.83 | 18.97 | 131.86 | 3506.75 | 17.54 | 9.41 | 215.24 | 350.29 | 320.58 | 11.79 | |
| 3700.00 | 3728.51 | 18.97 | 131.86 | 3601.02 | 18.22 | 9.72 | 215.77 | 357.58 | 326.67 | 11.57 | |
| 3800.00 | 3828.19 | 18.97 | 131.86 | 3695.29 | 18.91 | 10.04 | 216.28 | 364.90 | 332.76 | 11.35 | |
| 3900.00 | 3927.87 | 18.97 | 131.86 | 3789.55 | 19.60 | 10.35 | 216.77 | 372.25 | 338.88 | 11.15 | |
| 4000.00 | 4027.55 | 18.97 | 131.86 | 3883.82 | 20.28 | 10.67 | 217.24 | 379.63 | 345.02 | 10.97 | |
| 4100.00 | 4127.23 | 18.97 | 131.86 | 3978.08 | 20.97 | 10.99 | 217.69 | 387.03 | 351.17 | 10.79 | |
| 4200.00 | 4226.91 | 18.97 | 131.86 | 4072.35 | 21.66 | 11.30 | 218.13 | 394.45 | 357.33 | 10.63 | |
| 4300.00 | 4326.59 | 18.97 | 131.86 | 4166.62 | 22.35 | 11.62 | 218.55 | 401.89 | 363.50 | 10.47 | |
| 4400.00 | 4426.27 | 18.97 | 131.86 | 4260.88 | 23.04 | 11.93 | 218.95 | 409.36 | 369.70 | 10.32 | |
| 4500.00 | 4525.95 | 18.97 | 131.86 | 4355.15 | 23.73 | 12.25 | 219.34 | 416.84 | 375.91 | 10.18 | |
| 4600.00 | 4625.63 | 18.97 | 131.86 | 4449.42 | 24.41 | 12.57 | 219.72 | 424.35 | 382.14 | 10.05 | |
| 4700.00 | 4725.31 | 18.97 | 131.86 | 4543.68 | 25.10 | 12.89 | 220.08 | 431.87 | 388.38 | 9.93 | |
| 4800.00 | 4824.99 | 18.97 | 131.86 | 4637.95 | 25.79 | 13.20 | 220.43 | 439.40 | 394.64 | 9.82 | |
| 4900.00 | 4924.67 | 18.97 | 131.86 | 4732.21 | 26.48 | 13.52 | 220.77 | 446.96 | 400.92 | 9.71 | |
| 5000.00 | 5024.35 | 18.97 | 131.86 | 4826.48 | 27.17 | 13.84 | 221.10 | 454.53 | 407.21 | 9.61 | |
| 5100.00 | 5124.03 | 18.97 | 131.86 | 4920.75 | 27.86 | 14.16 | 221.41 | 462.11 | 413.51 | 9.51 | |
| 5200.00 | 5223.71 | 18.97 | 131.86 | 5015.01 | 28.55 | 14.47 | 221.72 | 469.70 | 419.82 | 9.42 | |
| 5300.00 | 5323.39 | 18.97 | 131.86 | 5109.28 | 29.24 | 14.79 | 222.01 | 477.31 | 426.14 | 9.33 | |
| 5400.00 | 5423.07 | 18.97 | 131.86 | 5203.54 | 29.93 | 15.11 | 222.30 | 484.93 | 432.48 | 9.24 | |
| 5500.00 | 5522.75 | 18.97 | 131.86 | 5297.81 | 30.62 | 15.43 | 222.58 | 492.57 | 438.82 | 9.17 | |
| 5600.00 | 5622.43 | 18.97 | 131.86 | 5392.08 | 31.31 | 15.75 | 222.85 | 500.21 | 445.18 | 9.09 | |
| 5700.00 | 5722.11 | 18.97 | 131.86 | 5486.34 | 32.00 | 16.07 | 223.11 | 507.87 | 451.55 | 9.02 | |
| 5800.00 | 5821.79 | 18.97 | 131.86 | 5580.61 | 32.69 | 16.39 | 223.37 | 515.53 | 457.92 | 8.95 | |
| 5900.00 | 5921.47 | 18.97 | 131.86 | 5674.88 | 33.38 | 16.70 | 223.61 | 523.21 | 464.31 | 8.88 | |
| 6000.00 | 6021.15 | 18.97 | 131.86 | 5769.14 | 34.07 | 17.02 | 223.85 | 530.89 | 470.70 | 8.82 | |
| 6100.00 | 6120.83 | 18.97 | 131.86 | 5863.41 | 34.76 | 17.34 | 224.08 | 538.58 | 477.11 | 8.76 | |
| 6200.00 | 6224.32 | 17.77 | 136.22 | 5961.35 | 35.44 | 17.67 | 224.28 | 546.22 | 483.47 | 8.70 | |
| 6300.00 | 6343.03 | 13.83 | 168.61 | 6075.77 | 35.62 | 17.90 | 223.17 | 551.49 | 488.41 | 8.74 | |
| 6400.00 | 6455.76 | 15.39 | 204.41 | 6185.07 | 35.11 | 17.86 | 220.31 | 554.16 | 492.26 | 8.95 | |
| 6500.00 | 6558.00 | 20.40 | 225.75 | 6282.43 | 34.19 | 17.59 | 216.26 | 556.45 | 496.87 | 9.34 | |
| 6600.00 | 6647.63 | 26.11 | 236.86 | 6364.78 | 33.10 | 17.16 | 211.65 | 561.25 | 504.43 | 9.88 | |
| 6700.00 | 6727.38 | 31.66 | 243.41 | 6434.61 | 31.99 | 16.60 | 188.72 | 571.03 | 517.33 | 10.63 | |
| 6800.00 | 6803.14 | 37.15 | 247.93 | 6497.10 | 30.88 | 15.89 | 159.04 | 585.57 | 534.40 | 11.44 | |
| 6900.00 | 6875.88 | 42.56 | 251.30 | 6552.93 | 29.85 | 15.07 | 133.20 | 603.58 | 554.63 | 12.33 | |
| 7000.00 | 6946.27 | 47.87 | 253.96 | 6602.50 | 28.95 | 14.13 | 114.53 | 623.75 | 576.51 | 13.20 | |
| 7100.00 | 7014.79 | 53.08 | 256.14 | 6646.10 | 28.22 | 13.10 | 101.48 | 644.87 | 598.72 | 13.97 | |
| 7200.00 | 7081.84 | 58.22 | 258.01 | 6683.91 | 27.70 | 12.04 | 92.08 | 665.87 | 620.44 | 14.66 | |
| 7300.00 | 7147.72 | 63.29 | 259.65 | 6716.08 | 27.40 | 11.04 | 85.09 | 685.84 | 640.74 | 15.20 | |
| 7400.00 | 7212.66 | 68.31 | 261.13 | 6742.70 | 27.29 | 10.21 | 79.82 | 704.03 | 658.77 | 15.55 | |
| 7500.00 | 7276.88 | 73.28 | 262.50 | 6763.81 | 27.40 | 9.70 | 75.86 | 719.84 | 673.79 | 15.63 | |
| 7600.00 | 7340.53 | 78.22 | 263.78 | 6779.47 | 27.69 | 9.62 | 72.95 | 732.79 | 685.40 | 15.46 | |
| 7700.00 | 7403.77 | 83.13 | 265.01 | 6789.71 | 28.11 | 10.02 | 70.94 | 742.50 | 693.35 | 15.10 | |
| 7800.00 | 7466.73 | 88.03 | 266.21 | 6794.56 | 28.70 | 10.89 | 69.73 | 748.74 | 697.31 | 14.56 | |
| 7900.00 | 7551.67 | 90.00 | 266.70 | 6795.00 | 29.55 | 11.65 | 69.33 | 750.62 | 697.19 | 14.05 | |
| 8000.00 | 7651.67 | 90.00 | 266.70 | 6795.00 | 30.69 | 12.17 | 69.31 | 750.16 | 694.79 | 13.55 | |
| 8100.00 | 7751.67 | 90.00 | 266.70 | 6795.00 | 32.03 | 12.72 | 69.30 | 749.71 | 692.05 | 13.00 | |
| 8200.00 | 7851.67 | 90.00 | 266.70 | 6795.00 | 33.55 | 13.30 | 69.29 | 749.25 | 688.80 | 12.39 | |
| 8300.00 | 7951.67 | 90.00 | 266.70 | 6795.00 | 35.22 | 13.91 | 69.27 | 748.79 | 685.29 | 11.79 | |
| 8400.00 | 8051.67 | 90.00 | 266.70 | 6795.00 | 37.03 | 14.52 | 69.26 | 748.34 | 681.40 | 11.18 | |
| 8500.00 | 8151.67 | 90.00 | 266.70 | 6795.00 | 38.95 | 15.16 | 69.25 | 747.88 | 677.50 | 10.63 | |
| 8600.00 | 8251.66 | 90.00 | 266.70 | 6795.00 | 40.98 | 15.80 | 69.23 | 747.42 | 673.12 | 10.06 | |
| 8700.00 | 8351.66 | 90.00 | 266.70 | 6795.00 | 43.08 | 16.45 | 69.22 | 746.97 | 668.70 | 9.54 | |
| 8800.00 | 8451.66 | 90.00 | 266.70 | 6795.00 | 45.27 | 17.11 | 69.21 | 746.51 | 664.17 | 9.07 | |
| 8900.00 | 8551.66 | 90.00 | 266.70 | 6795.00 | 47.52 | 17.77 | 69.19 | 746.05 | 659.63 | 8.63 | |
| 9000.00 | 8651.66 | 90.00 | 266.70 | 6795.00 | 49.82 | 18.45 | 69.18 | 745.60 | 654.81 | 8.21 | |

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 |
| 9100.00 | 8751.66 | 90.00 | 266.70 | 6795.00 | 52.17 | 19.12 | 69.17 | 745.14 | 649.95 | 7.83 | |
| 9200.00 | 8851.66 | 90.00 | 266.70 | 6795.00 | 54.57 | 19.80 | 69.15 | 744.68 | 645.01 | 7.47 | |
| 9300.00 | 8951.66 | 90.00 | 266.70 | 6795.00 | 57.00 | 20.48 | 69.14 | 744.23 | 639.98 | 7.14 | |
| 9400.00 | 9051.65 | 90.00 | 266.70 | 6795.00 | 59.46 | 21.17 | 69.13 | 743.77 | 634.90 | 6.83 | |
| 9500.00 | 9151.65 | 90.00 | 266.70 | 6795.00 | 61.96 | 21.86 | 69.11 | 743.32 | 629.78 | 6.55 | |
| 9600.00 | 9251.65 | 90.00 | 266.70 | 6795.00 | 64.47 | 22.55 | 69.10 | 742.86 | 624.61 | 6.28 | |
| 9700.00 | 9351.65 | 90.00 | 266.70 | 6795.00 | 67.01 | 23.24 | 69.09 | 742.40 | 619.40 | 6.04 | |
| 9800.00 | 9451.65 | 90.00 | 266.70 | 6795.00 | 69.57 | 23.94 | 69.07 | 741.95 | 614.17 | 5.81 | |
| 9900.00 | 9551.65 | 90.00 | 266.70 | 6795.00 | 72.15 | 24.63 | 69.06 | 741.49 | 608.90 | 5.59 | |
| 10000.00 | 9651.65 | 90.00 | 266.70 | 6795.00 | 74.74 | 25.33 | 69.05 | 741.04 | 603.62 | 5.39 | |
| 10100.00 | 9751.65 | 90.00 | 266.70 | 6795.00 | 77.35 | 26.03 | 69.03 | 740.58 | 598.31 | 5.21 | |
| 10200.00 | 9851.65 | 90.00 | 266.70 | 6795.00 | 79.97 | 26.74 | 69.02 | 740.12 | 592.98 | 5.03 | |
| 10300.00 | 9951.64 | 90.00 | 266.70 | 6795.00 | 82.61 | 27.44 | 69.01 | 739.67 | 587.64 | 4.87 | |
| 10400.00 | 10051.64 | 90.00 | 266.70 | 6795.00 | 85.25 | 28.14 | 68.99 | 739.21 | 582.29 | 4.71 | |
| 10500.00 | 10151.64 | 90.00 | 266.70 | 6795.00 | 87.90 | 28.85 | 68.98 | 738.76 | 576.84 | 4.56 | |
| 10600.00 | 10251.64 | 90.00 | 266.70 | 6795.00 | 90.56 | 29.56 | 68.97 | 738.30 | 571.37 | 4.42 | |
| 10700.00 | 10351.64 | 90.00 | 266.70 | 6795.00 | 93.23 | 30.27 | 68.95 | 737.84 | 565.88 | 4.29 | |
| 10800.00 | 10451.64 | 90.00 | 266.70 | 6795.00 | 95.91 | 30.98 | 68.94 | 737.39 | 560.39 | 4.17 | |
| 10900.00 | 10551.64 | 90.00 | 266.70 | 6795.00 | 98.59 | 31.69 | 68.92 | 736.93 | 554.89 | 4.05 | |
| 11000.00 | 10651.64 | 90.00 | 266.70 | 6795.00 | 101.28 | 32.40 | 68.91 | 736.48 | 549.39 | 3.94 | |
| 11100.00 | 10751.63 | 90.00 | 266.70 | 6795.00 | 103.98 | 33.11 | 68.90 | 736.02 | 543.88 | 3.83 | |
| 11200.00 | 10851.63 | 90.00 | 266.70 | 6795.00 | 106.68 | 33.82 | 68.88 | 735.57 | 538.37 | 3.73 | |
| 11300.00 | 10951.63 | 90.00 | 266.70 | 6795.00 | 109.39 | 34.54 | 68.87 | 735.11 | 532.86 | 3.63 | |
| 11400.00 | 11051.63 | 90.00 | 266.70 | 6795.00 | 112.10 | 35.25 | 68.86 | 734.66 | 527.35 | 3.54 | |
| 11500.00 | 11151.63 | 90.00 | 266.70 | 6795.00 | 114.81 | 35.97 | 68.84 | 734.20 | 521.84 | 3.46 | |
| 11600.00 | 11251.63 | 90.00 | 266.70 | 6795.00 | 117.53 | 36.69 | 68.83 | 733.75 | 516.35 | 3.38 | |
| 11700.00 | 11351.63 | 90.00 | 266.70 | 6795.00 | 120.25 | 37.40 | 68.81 | 733.29 | 510.82 | 3.30 | |
| 11800.00 | 11451.63 | 90.00 | 266.70 | 6795.00 | 122.98 | 38.12 | 68.80 | 732.83 | 505.18 | 3.22 | |
| 11900.00 | 11551.63 | 90.00 | 266.70 | 6795.00 | 125.71 | 38.84 | 68.79 | 732.38 | 499.55 | 3.15 | |
| 12000.00 | 11651.62 | 90.00 | 266.70 | 6795.00 | 128.44 | 39.56 | 68.77 | 731.92 | 493.92 | 3.08 | |
| 12100.00 | 11751.62 | 90.00 | 266.70 | 6795.00 | 131.17 | 40.27 | 68.76 | 731.47 | 488.30 | 3.01 | |
| 12200.00 | 11851.62 | 90.00 | 266.70 | 6795.00 | 133.91 | 40.99 | 68.75 | 731.01 | 482.69 | 2.94 | |
| 12300.00 | 11951.62 | 90.00 | 266.70 | 6795.00 | 136.65 | 41.71 | 68.73 | 730.56 | 477.08 | 2.88 | |
| 12400.00 | 12051.62 | 90.00 | 266.70 | 6795.00 | 139.39 | 42.43 | 68.72 | 730.10 | 471.48 | 2.82 | |
| 12500.00 | 12151.62 | 90.00 | 266.70 | 6795.00 | 142.13 | 43.16 | 68.70 | 729.65 | 465.89 | 2.77 | |
| 12600.00 | 12251.62 | 90.00 | 266.70 | 6795.00 | 144.88 | 43.88 | 68.69 | 729.19 | 460.30 | 2.71 | |
| 12700.00 | 12351.62 | 90.00 | 266.70 | 6795.00 | 147.63 | 44.60 | 68.68 | 728.74 | 454.71 | 2.66 | |
| 12800.00 | 12451.61 | 90.00 | 266.70 | 6795.00 | 150.38 | 45.32 | 68.66 | 728.28 | 449.12 | 2.61 | |
| 12900.00 | 12551.61 | 90.00 | 266.70 | 6795.00 | 153.13 | 46.04 | 68.65 | 727.83 | 443.53 | 2.56 | |
| 13000.00 | 12651.61 | 90.00 | 266.70 | 6795.00 | 155.88 | 46.76 | 68.63 | 727.37 | 437.95 | 2.51 | |
| 13100.00 | 12751.61 | 90.00 | 266.70 | 6795.00 | 158.64 | 47.49 | 68.62 | 726.92 | 432.36 | 2.47 | SF(Lo) |
| 13200.00 | 12851.61 | 90.00 | 266.70 | 6795.00 | 161.40 | 48.21 | 68.61 | 726.47 | 426.77 | 2.42 | SF(Lo) |
| 13300.00 | 12951.61 | 90.00 | 266.70 | 6795.00 | 164.15 | 48.93 | 68.59 | 726.01 | 421.18 | 2.38 | SF(Lo) |
| 13400.00 | 13051.61 | 90.00 | 266.70 | 6795.00 | 166.91 | 49.66 | 68.58 | 725.56 | 415.59 | 2.34 | SF(Lo) |
| 13500.00 | 13151.61 | 90.00 | 266.70 | 6795.00 | 169.67 | 50.38 | 68.56 | 725.10 | 410.00 | 2.30 | SF(Lo) |
| 13600.00 | 13251.60 | 90.00 | 266.70 | 6795.00 | 172.43 | 51.11 | 68.55 | 724.65 | 404.41 | 2.26 | SF(Lo) |
| 13700.00 | 13351.60 | 90.00 | 266.70 | 6795.00 | 175.20 | 51.83 | 68.54 | 724.19 | 398.81 | 2.23 | SF(Lo) |
| 13800.00 | 13451.60 | 90.00 | 266.70 | 6795.00 | 177.96 | 52.55 | 68.52 | 723.74 | 393.22 | 2.19 | SF(Lo) |
| 13900.00 | 13551.60 | 90.00 | 266.70 | 6795.00 | 180.73 | 53.28 | 68.51 | 723.28 | 387.63 | 2.15 | SF(Lo) |
| 14000.00 | 13651.60 | 90.00 | 266.70 | 6795.00 | 183.49 | 54.00 | 68.49 | 722.83 | 382.03 | 2.12 | SF(Lo) |
| 14100.00 | 13751.60 | 90.00 | 266.70 | 6795.00 | 186.26 | 54.73 | 68.48 | 722.38 | 376.44 | 2.09 | SF(Lo) |
| 14200.00 | 13851.60 | 90.00 | 266.70 | 6795.00 | 189.03 | 55.46 | 68.46 | 721.92 | 370.84 | 2.06 | SF(Lo) |
| 14300.00 | 13951.60 | 90.00 | 266.70 | 6795.00 | 191.80 | 56.18 | 68.45 | 721.47 | 365.24 | 2.03 | SF(Lo) |
| 14400.00 | 14051.60 | 90.00 | 266.70 | 6795.00 | 194.57 | 56.91 | 68.44 | 721.01 | 359.65 | 2.00 | SF(Lo) |
| 14500.00 | 14151.59 | 90.00 | 266.70 | 6795.00 | 197.34 | 57.63 | 68.42 | 720.56 | 354.05 | 1.97 | SF(Lo) |
| 14600.00 | 14251.59 | 90.00 | 266.70 | 6795.00 | 200.11 | 58.36 | 68.41 | 720.10 | 348.45 | 1.94 | SF(Lo) |
| 14700.00 | 14351.59 | 90.00 | 266.70 | 6795.00 | 202.88 | 59.09 | 68.39 | 719.65 | 342.85 | 1.91 | SF(Lo) |
| 14800.00 | 14451.59 | 90.00 | 266.70 | 6795.00 | 205.65 | 59.81 | 68.38 | 719.20 | 337.26 | 1.88 | SF(Lo) |

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 |
| 14900.00 | 14551.59 | 90.00 | 266.70 | 6795.00 | 208.42 | 60.54 | 68.36 | 718.74 | 331.66 | 1.86 | SF(Lo) |
| 15000.00 | 14651.59 | 90.00 | 266.70 | 6795.00 | 211.20 | 61.27 | 68.35 | 718.29 | 326.06 | 1.83 | SF(Lo) |
| 15100.00 | 14751.59 | 90.00 | 266.70 | 6795.00 | 213.97 | 61.99 | 68.34 | 717.84 | 320.46 | 1.81 | SF(Lo) |
| 15200.00 | 14851.59 | 90.00 | 266.70 | 6795.00 | 216.75 | 62.72 | 68.32 | 717.38 | 314.86 | 1.78 | SF(Lo) |
| 15300.00 | 14951.58 | 90.00 | 266.70 | 6795.00 | 219.52 | 63.45 | 68.31 | 716.93 | 309.26 | 1.76 | SF(Lo) |
| 15400.00 | 15051.58 | 90.00 | 266.70 | 6795.00 | 222.30 | 64.18 | 68.29 | 716.47 | 303.67 | 1.74 | SF(Lo) |
| 15500.00 | 15136.85 | 90.00 | 266.70 | 6795.00 | 224.67 | 64.80 | 68.28 | 716.17 | 299.09 | 1.72 | SF(Lo) |
| 15600.00 | 15136.85 | 90.00 | 266.70 | 6795.00 | 224.67 | 64.80 | 68.28 | 724.71 | 312.95 | 1.76 | SF(Lo) |
| 15700.00 | 15136.85 | 90.00 | 266.70 | 6795.00 | 224.67 | 64.80 | 68.28 | 746.66 | 347.41 | 1.87 | SF(Lo) |
| 15768.80 | 15136.85 | 90.00 | 266.70 | 6795.00 | 224.67 | 64.80 | 68.28 | 768.98 | 381.59 | 1.99 | 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 | 0.35 | 40.08 | 39.34 | 54.65 | CC (Lo) |
| 100.00 | 100.00 | 0.00 | 0.00 | 100.00 | 0.11 | 0.11 | 0.35 | 40.08 | 39.12 | 42.01 | CC (Lo) |
| 200.00 | 200.00 | 0.00 | 0.00 | 200.00 | 0.34 | 0.34 | 0.35 | 40.08 | 38.67 | 28.56 | CC (Lo) |
| 300.00 | 300.00 | 0.00 | 0.00 | 300.00 | 0.56 | 0.56 | 0.35 | 40.08 | 38.22 | 21.63 | CC (Lo) |
| 400.00 | 399.98 | 0.00 | 0.00 | 399.98 | 0.79 | 0.79 | 214.82 | 41.50 | 39.22 | 18.20 | CC (Lo) |
| 500.00 | 499.84 | 0.00 | 0.00 | 499.84 | 1.01 | 1.01 | 211.14 | 45.89 | 43.19 | 16.97 | CC (Lo) |
| 600.00 | 599.45 | 0.00 | 0.00 | 599.45 | 1.24 | 1.24 | 206.38 | 53.55 | 50.39 | 16.97 | CC (Lo) |
| 700.00 | 700.68 | 2.01 | 138.18 | 700.66 | 1.44 | 1.44 | 202.32 | 63.17 | 59.59 | 17.65 | CC (Lo) |
| 800.00 | 802.29 | 4.05 | 138.18 | 802.12 | 1.63 | 1.63 | 199.62 | 73.11 | 69.10 | 18.25 | |
| 900.00 | 904.28 | 6.09 | 138.18 | 903.71 | 1.85 | 1.83 | 197.83 | 83.24 | 78.79 | 18.68 | |
| 1000.00 | 1006.64 | 8.13 | 138.18 | 1005.28 | 2.11 | 2.04 | 196.66 | 93.49 | 88.56 | 18.99 | |
| 1100.00 | 1109.38 | 10.19 | 138.18 | 1106.70 | 2.41 | 2.25 | 195.94 | 103.80 | 98.36 | 19.10 | |
| 1200.00 | 1212.49 | 12.25 | 138.18 | 1207.84 | 2.77 | 2.48 | 195.55 | 114.13 | 108.16 | 19.11 | |
| 1300.00 | 1315.97 | 14.32 | 138.18 | 1308.54 | 3.20 | 2.72 | 195.40 | 124.48 | 117.93 | 19.02 | |
| 1400.00 | 1419.87 | 16.40 | 138.18 | 1408.73 | 3.69 | 2.97 | 195.49 | 134.29 | 127.13 | 18.76 | |
| 1500.00 | 1524.31 | 18.49 | 138.18 | 1508.36 | 4.27 | 3.23 | 196.06 | 141.05 | 133.24 | 18.05 | |
| 1600.00 | 1626.47 | 19.47 | 138.18 | 1604.82 | 4.89 | 3.51 | 197.04 | 144.93 | 136.37 | 16.94 | |
| 1700.00 | 1726.38 | 19.47 | 138.18 | 1699.01 | 5.54 | 3.79 | 198.01 | 148.48 | 139.16 | 15.93 | |
| 1800.00 | 1826.29 | 19.47 | 138.18 | 1793.20 | 6.19 | 4.08 | 198.94 | 152.06 | 141.94 | 15.03 | |
| 1900.00 | 1926.19 | 19.47 | 138.18 | 1887.40 | 6.86 | 4.38 | 199.82 | 155.69 | 144.73 | 14.21 | |
| 2000.00 | 2026.10 | 19.47 | 138.18 | 1981.59 | 7.53 | 4.68 | 200.67 | 159.35 | 147.53 | 13.49 | |
| 2100.00 | 2126.01 | 19.47 | 138.18 | 2075.78 | 8.21 | 4.98 | 201.48 | 163.04 | 150.35 | 12.85 | |
| 2200.00 | 2225.91 | 19.47 | 138.18 | 2169.97 | 8.90 | 5.29 | 202.25 | 166.77 | 153.15 | 12.25 | |
| 2300.00 | 2325.82 | 19.47 | 138.18 | 2264.17 | 9.59 | 5.60 | 202.98 | 170.52 | 155.97 | 11.72 | |
| 2400.00 | 2425.72 | 19.47 | 138.18 | 2358.36 | 10.28 | 5.91 | 203.69 | 174.30 | 158.80 | 11.25 | |
| 2500.00 | 2525.63 | 19.47 | 138.18 | 2452.55 | 10.97 | 6.22 | 204.36 | 178.11 | 161.65 | 10.82 | |
| 2600.00 | 2625.54 | 19.47 | 138.18 | 2546.74 | 11.66 | 6.53 | 205.01 | 181.93 | 164.49 | 10.43 | |
| 2700.00 | 2725.44 | 19.47 | 138.18 | 2640.94 | 12.36 | 6.85 | 205.63 | 185.79 | 167.34 | 10.07 | |
| 2800.00 | 2825.35 | 19.47 | 138.18 | 2735.13 | 13.06 | 7.16 | 206.22 | 189.66 | 170.20 | 9.75 | |
| 2900.00 | 2925.25 | 19.47 | 138.18 | 2829.32 | 13.75 | 7.48 | 206.79 | 193.55 | 173.07 | 9.45 | |
| 3000.00 | 3025.16 | 19.47 | 138.18 | 2923.52 | 14.45 | 7.79 | 207.34 | 197.46 | 175.96 | 9.18 | |
| 3100.00 | 3125.07 | 19.47 | 138.18 | 3017.71 | 15.15 | 8.11 | 207.87 | 201.39 | 178.83 | 8.93 | |
| 3200.00 | 3224.97 | 19.47 | 138.18 | 3111.90 | 15.85 | 8.43 | 208.37 | 205.33 | 181.70 | 8.69 | |
| 3300.00 | 3324.88 | 19.47 | 138.18 | 3206.09 | 16.55 | 8.75 | 208.86 | 209.29 | 184.59 | 8.47 | |
| 3400.00 | 3424.78 | 19.47 | 138.18 | 3300.29 | 17.25 | 9.07 | 209.33 | 213.26 | 187.49 | 8.27 | |
| 3500.00 | 3524.69 | 19.47 | 138.18 | 3394.48 | 17.96 | 9.39 | 209.78 | 217.25 | 190.39 | 8.09 | |
| 3600.00 | 3624.60 | 19.47 | 138.18 | 3488.67 | 18.66 | 9.71 | 210.22 | 221.25 | 193.31 | 7.92 | |
| 3700.00 | 3724.50 | 19.47 | 138.18 | 3582.86 | 19.36 | 10.03 | 210.64 | 225.26 | 196.23 | 7.76 | |
| 3800.00 | 3824.41 | 19.47 | 138.18 | 3677.06 | 20.06 | 10.35 | 211.05 | 229.29 | 199.16 | 7.61 | |
| 3900.00 | 3924.31 | 19.47 | 138.18 | 3771.25 | 20.77 | 10.67 | 211.44 | 233.32 | 202.09 | 7.47 | |
| 4000.00 | 4024.22 | 19.47 | 138.18 | 3865.44 | 21.47 | 11.00 | 211.82 | 237.37 | 205.01 | 7.33 | |
| 4100.00 | 4124.13 | 19.47 | 138.18 | 3959.63 | 22.17 | 11.32 | 212.18 | 241.43 | 207.94 | 7.21 | |
| 4200.00 | 4224.03 | 19.47 | 138.18 | 4053.83 | 22.88 | 11.64 | 212.53 | 245.49 | 210.87 | 7.09 | |
| 4300.00 | 4323.94 | 19.47 | 138.18 | 4148.02 | 23.58 | 11.96 | 212.88 | 249.57 | 213.81 | 6.98 | |

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 |
| 4400.00 | 4423.84 | 19.47 | 138.18 | 4242.21 | 24.29 | 12.29 | 213.21 | 253.65 | 216.75 | 6.87 | |
| 4500.00 | 4523.75 | 19.47 | 138.18 | 4336.41 | 24.99 | 12.61 | 213.53 | 257.74 | 219.70 | 6.78 | |
| 4600.00 | 4623.66 | 19.47 | 138.18 | 4430.60 | 25.70 | 12.93 | 213.84 | 261.84 | 222.65 | 6.68 | |
| 4700.00 | 4723.56 | 19.47 | 138.18 | 4524.79 | 26.40 | 13.25 | 214.14 | 265.95 | 225.61 | 6.59 | |
| 4800.00 | 4823.47 | 19.47 | 138.18 | 4618.98 | 27.11 | 13.58 | 214.43 | 270.06 | 228.58 | 6.51 | |
| 4900.00 | 4923.37 | 19.47 | 138.18 | 4713.18 | 27.81 | 13.90 | 214.71 | 274.18 | 231.55 | 6.43 | |
| 5000.00 | 5023.28 | 19.47 | 138.18 | 4807.37 | 28.52 | 14.23 | 214.99 | 278.31 | 234.52 | 6.36 | |
| 5100.00 | 5123.19 | 19.47 | 138.18 | 4901.56 | 29.22 | 14.55 | 215.26 | 282.44 | 237.47 | 6.28 | |
| 5200.00 | 5223.09 | 19.47 | 138.18 | 4995.75 | 29.93 | 14.87 | 215.51 | 286.58 | 240.44 | 6.21 | |
| 5300.00 | 5323.00 | 19.47 | 138.18 | 5089.95 | 30.63 | 15.20 | 215.77 | 290.73 | 243.40 | 6.14 | |
| 5400.00 | 5422.90 | 19.47 | 138.18 | 5184.14 | 31.34 | 15.52 | 216.01 | 294.88 | 246.37 | 6.08 | |
| 5500.00 | 5522.81 | 19.47 | 138.18 | 5278.33 | 32.04 | 15.84 | 216.25 | 299.03 | 249.34 | 6.02 | |
| 5600.00 | 5622.72 | 19.47 | 138.18 | 5372.53 | 32.75 | 16.17 | 216.48 | 303.19 | 252.31 | 5.96 | |
| 5700.00 | 5722.62 | 19.47 | 138.18 | 5466.72 | 33.45 | 16.49 | 216.70 | 307.36 | 255.29 | 5.90 | |
| 5800.00 | 5822.53 | 19.47 | 138.18 | 5560.91 | 34.16 | 16.82 | 216.92 | 311.53 | 258.27 | 5.85 | |
| 5900.00 | 5922.43 | 19.47 | 138.18 | 5655.10 | 34.87 | 17.14 | 217.14 | 315.70 | 261.26 | 5.80 | |
| 6000.00 | 6022.34 | 19.47 | 138.18 | 5749.30 | 35.57 | 17.47 | 217.34 | 319.88 | 264.25 | 5.75 | |
| 6100.00 | 6122.25 | 19.47 | 138.18 | 5843.49 | 36.28 | 17.79 | 217.54 | 324.06 | 267.24 | 5.70 | |
| 6200.00 | 6222.15 | 19.47 | 138.18 | 5937.68 | 36.98 | 18.12 | 217.74 | 328.25 | 270.23 | 5.66 | |
| 6300.00 | 6322.06 | 19.47 | 138.18 | 6031.87 | 37.69 | 18.44 | 217.93 | 332.44 | 273.23 | 5.61 | |
| 6400.00 | 6421.96 | 19.47 | 138.18 | 6126.07 | 38.40 | 18.76 | 218.12 | 336.63 | 276.22 | 5.57 | |
| 6500.00 | 6521.87 | 19.47 | 138.18 | 6220.26 | 39.10 | 19.09 | 218.30 | 340.83 | 279.23 | 5.53 | |
| 6600.00 | 6626.41 | 16.02 | 160.08 | 6319.80 | 39.46 | 19.37 | 217.49 | 344.42 | 282.48 | 5.56 | |
| 6700.00 | 6729.28 | 15.73 | 190.47 | 6418.92 | 39.12 | 19.47 | 197.18 | 347.46 | 286.77 | 5.73 | |
| 6800.00 | 6830.05 | 19.14 | 215.13 | 6515.18 | 38.22 | 19.38 | 169.99 | 351.17 | 291.99 | 5.93 | |
| 6900.00 | 6928.86 | 24.62 | 230.57 | 6606.91 | 36.86 | 19.10 | 146.41 | 355.49 | 297.87 | 6.17 | |
| 7000.00 | 7025.84 | 30.99 | 240.15 | 6692.69 | 35.19 | 18.59 | 129.75 | 360.28 | 304.11 | 6.41 | |
| 7100.00 | 7121.15 | 37.71 | 246.55 | 6771.36 | 33.37 | 17.84 | 118.41 | 365.40 | 310.55 | 6.66 | |
| 7200.00 | 7214.96 | 44.58 | 251.16 | 6841.97 | 31.61 | 16.78 | 110.43 | 370.66 | 316.72 | 6.87 | |
| 7300.00 | 7307.43 | 51.49 | 254.71 | 6903.77 | 30.10 | 15.39 | 104.58 | 375.86 | 322.50 | 7.04 | |
| 7400.00 | 7398.74 | 58.40 | 257.61 | 6956.19 | 29.00 | 13.73 | 100.19 | 380.82 | 327.57 | 7.15 | |
| 7500.00 | 7489.07 | 65.30 | 260.07 | 6998.78 | 28.40 | 12.02 | 96.86 | 385.35 | 331.64 | 7.18 | |
| 7600.00 | 7578.56 | 72.16 | 262.25 | 7031.23 | 28.29 | 10.66 | 94.37 | 389.29 | 334.55 | 7.11 | |
| 7700.00 | 7667.40 | 79.00 | 264.26 | 7053.34 | 28.59 | 10.16 | 92.60 | 392.50 | 336.21 | 6.97 | |
| 7800.00 | 7755.74 | 85.81 | 266.17 | 7065.01 | 29.22 | 10.88 | 91.46 | 394.86 | 336.59 | 6.78 | |
| 7900.00 | 7848.36 | 90.00 | 267.32 | 7067.00 | 30.09 | 12.07 | 91.01 | 396.14 | 335.84 | 6.57 | |
| 8000.00 | 7948.36 | 90.00 | 267.32 | 7067.00 | 31.15 | 12.58 | 91.01 | 396.74 | 334.41 | 6.36 | |
| 8100.00 | 8048.36 | 90.00 | 267.32 | 7067.00 | 32.40 | 13.13 | 91.01 | 397.34 | 332.52 | 6.13 | |
| 8200.00 | 8148.35 | 90.00 | 267.32 | 7067.00 | 33.83 | 13.72 | 91.01 | 397.94 | 330.32 | 5.88 | |
| 8300.00 | 8248.35 | 90.00 | 267.32 | 7067.00 | 35.43 | 14.32 | 91.01 | 398.53 | 327.65 | 5.62 | |
| 8400.00 | 8348.35 | 90.00 | 267.32 | 7067.00 | 37.16 | 14.95 | 91.00 | 399.13 | 324.79 | 5.37 | |
| 8500.00 | 8448.35 | 90.00 | 267.32 | 7067.00 | 39.01 | 15.59 | 91.00 | 399.73 | 321.65 | 5.12 | |
| 8600.00 | 8548.35 | 90.00 | 267.32 | 7067.00 | 40.97 | 16.24 | 91.00 | 400.32 | 318.32 | 4.88 | |
| 8700.00 | 8648.34 | 90.00 | 267.32 | 7067.00 | 43.02 | 16.90 | 91.00 | 400.92 | 314.94 | 4.66 | |
| 8800.00 | 8748.34 | 90.00 | 267.32 | 7067.00 | 45.16 | 17.57 | 91.00 | 401.52 | 311.12 | 4.44 | |
| 8900.00 | 8848.34 | 90.00 | 267.32 | 7067.00 | 47.36 | 18.25 | 91.00 | 402.11 | 307.44 | 4.25 | |
| 9000.00 | 8948.34 | 90.00 | 267.32 | 7067.00 | 49.62 | 18.92 | 91.00 | 402.71 | 303.48 | 4.06 | |
| 9100.00 | 9048.34 | 90.00 | 267.32 | 7067.00 | 51.94 | 19.61 | 90.99 | 403.31 | 299.44 | 3.88 | |
| 9200.00 | 9148.34 | 90.00 | 267.32 | 7067.00 | 54.30 | 20.29 | 90.99 | 403.91 | 295.32 | 3.72 | |
| 9300.00 | 9248.33 | 90.00 | 267.32 | 7067.00 | 56.70 | 20.98 | 90.99 | 404.50 | 291.13 | 3.57 | |
| 9400.00 | 9348.33 | 90.00 | 267.32 | 7067.00 | 59.14 | 21.67 | 90.99 | 405.10 | 286.87 | 3.43 | |
| 9500.00 | 9448.33 | 90.00 | 267.32 | 7067.00 | 61.60 | 22.37 | 90.99 | 405.70 | 282.55 | 3.29 | |
| 9600.00 | 9548.33 | 90.00 | 267.32 | 7067.00 | 64.10 | 23.06 | 90.99 | 406.29 | 278.18 | 3.17 | |
| 9700.00 | 9648.33 | 90.00 | 267.32 | 7067.00 | 66.62 | 23.76 | 90.99 | 406.89 | 273.76 | 3.06 | |
| 9800.00 | 9748.32 | 90.00 | 267.32 | 7067.00 | 69.16 | 24.46 | 90.98 | 407.49 | 269.30 | 2.95 | |
| 9900.00 | 9848.32 | 90.00 | 267.32 | 7067.00 | 71.72 | 25.16 | 90.98 | 408.09 | 264.81 | 2.85 | |
| 10000.00 | 9948.32 | 90.00 | 267.32 | 7067.00 | 74.30 | 25.86 | 90.98 | 408.68 | 260.28 | 2.75 | |
| 10100.00 | 10048.32 | 90.00 | 267.32 | 7067.00 | 76.90 | 26.56 | 90.98 | 409.28 | 255.66 | 2.66 | |

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 |
| 10200.00 | 10148.32 | 90.00 | 267.32 | 7067.00 | 79.50 | 27.26 | 90.98 | 409.88 | 251.02 | 2.58 | |
| 10300.00 | 10248.32 | 90.00 | 267.32 | 7067.00 | 82.13 | 27.97 | 90.98 | 410.47 | 246.36 | 2.50 | |
| 10400.00 | 10348.31 | 90.00 | 267.32 | 7067.00 | 84.76 | 28.68 | 90.98 | 411.07 | 241.67 | 2.43 | SF(Lo) |
| 10500.00 | 10448.31 | 90.00 | 267.32 | 7067.00 | 87.40 | 29.38 | 90.97 | 411.67 | 236.96 | 2.36 | SF(Lo) |
| 10600.00 | 10548.31 | 90.00 | 267.32 | 7067.00 | 90.06 | 30.09 | 90.97 | 412.26 | 232.24 | 2.29 | SF(Lo) |
| 10700.00 | 10648.31 | 90.00 | 267.32 | 7067.00 | 92.72 | 30.80 | 90.97 | 412.86 | 227.50 | 2.23 | SF(Lo) |
| 10800.00 | 10748.31 | 90.00 | 267.32 | 7067.00 | 95.39 | 31.51 | 90.97 | 413.46 | 222.74 | 2.17 | SF(Lo) |
| 10900.00 | 10848.31 | 90.00 | 267.32 | 7067.00 | 98.07 | 32.22 | 90.97 | 414.06 | 217.97 | 2.11 | SF(Lo) |
| 11000.00 | 10948.30 | 90.00 | 267.32 | 7067.00 | 100.75 | 32.93 | 90.97 | 414.65 | 213.19 | 2.06 | SF(Lo) |
| 11100.00 | 11048.30 | 90.00 | 267.32 | 7067.00 | 103.44 | 33.65 | 90.97 | 415.25 | 208.40 | 2.01 | SF(Lo) |
| 11200.00 | 11148.30 | 90.00 | 267.32 | 7067.00 | 106.14 | 34.36 | 90.96 | 415.85 | 203.60 | 1.96 | SF(Lo) |
| 11300.00 | 11248.30 | 90.00 | 267.32 | 7067.00 | 108.84 | 35.08 | 90.96 | 416.44 | 198.78 | 1.91 | SF(Lo) |
| 11400.00 | 11348.30 | 90.00 | 267.32 | 7067.00 | 111.54 | 35.79 | 90.96 | 417.04 | 193.96 | 1.87 | SF(Lo) |
| 11500.00 | 11448.29 | 90.00 | 267.32 | 7067.00 | 114.25 | 36.51 | 90.96 | 417.64 | 189.13 | 1.83 | SF(Lo) |
| 11600.00 | 11548.29 | 90.00 | 267.32 | 7067.00 | 116.97 | 37.22 | 90.96 | 418.23 | 184.29 | 1.79 | SF(Lo) |
| 11700.00 | 11648.29 | 90.00 | 267.32 | 7067.00 | 119.69 | 37.94 | 90.96 | 418.83 | 179.45 | 1.75 | SF(Lo) |
| 11800.00 | 11748.29 | 90.00 | 267.32 | 7067.00 | 122.41 | 38.66 | 90.96 | 419.43 | 174.59 | 1.71 | SF(Lo) |
| 11900.00 | 11848.29 | 90.00 | 267.32 | 7067.00 | 125.14 | 39.37 | 90.95 | 420.03 | 169.74 | 1.68 | SF(Lo) |
| 12000.00 | 11948.29 | 90.00 | 267.32 | 7067.00 | 127.87 | 40.09 | 90.95 | 420.62 | 164.87 | 1.64 | SF(Lo) |
| 12100.00 | 12048.28 | 90.00 | 267.32 | 7067.00 | 130.60 | 40.81 | 90.95 | 421.22 | 160.00 | 1.61 | SF(Lo) |
| 12200.00 | 12148.28 | 90.00 | 267.32 | 7067.00 | 133.34 | 41.53 | 90.95 | 421.82 | 155.12 | 1.58 | SF(Lo) |
| 12300.00 | 12248.28 | 90.00 | 267.32 | 7067.00 | 136.07 | 42.25 | 90.95 | 422.41 | 150.24 | 1.55 | SF(Lo) |
| 12400.00 | 12348.28 | 90.00 | 267.32 | 7067.00 | 138.81 | 42.97 | 90.95 | 423.01 | 145.36 | 1.52 | SF(Lo) |
| 12500.00 | 12448.28 | 90.00 | 267.32 | 7067.00 | 141.56 | 43.69 | 90.95 | 423.61 | 140.47 | 1.50 | SF(Med) |
| 12600.00 | 12548.27 | 90.00 | 267.32 | 7067.00 | 144.30 | 44.41 | 90.95 | 424.20 | 135.57 | 1.47 | SF(Med) |
| 12700.00 | 12648.27 | 90.00 | 267.32 | 7067.00 | 147.05 | 45.13 | 90.94 | 424.80 | 130.67 | 1.44 | SF(Med) |
| 12800.00 | 12748.27 | 90.00 | 267.32 | 7067.00 | 149.80 | 45.85 | 90.94 | 425.40 | 125.77 | 1.42 | SF(Med) |
| 12900.00 | 12848.27 | 90.00 | 267.32 | 7067.00 | 152.55 | 46.57 | 90.94 | 426.00 | 120.86 | 1.40 | SF(Med) |
| 13000.00 | 12948.27 | 90.00 | 267.32 | 7067.00 | 155.30 | 47.30 | 90.94 | 426.59 | 115.96 | 1.37 | SF(Med) |
| 13100.00 | 13048.27 | 90.00 | 267.32 | 7067.00 | 158.06 | 48.02 | 90.94 | 427.19 | 111.04 | 1.35 | SF(Med) |
| 13200.00 | 13148.26 | 90.00 | 267.32 | 7067.00 | 160.82 | 48.74 | 90.94 | 427.79 | 106.13 | 1.33 | SF(Med) |
| 13300.00 | 13248.26 | 90.00 | 267.32 | 7067.00 | 163.57 | 49.47 | 90.94 | 428.38 | 101.21 | 1.31 | SF(Med) |
| 13400.00 | 13348.26 | 90.00 | 267.32 | 7067.00 | 166.33 | 50.19 | 90.93 | 428.98 | 96.29 | 1.29 | SF(Med) |
| 13500.00 | 13448.26 | 90.00 | 267.32 | 7067.00 | 169.09 | 50.91 | 90.93 | 429.58 | 91.36 | 1.27 | SF(Med) |
| 13600.00 | 13548.26 | 90.00 | 267.32 | 7067.00 | 171.86 | 51.64 | 90.93 | 430.17 | 86.44 | 1.25 | SF(Med) |
| 13700.00 | 13648.26 | 90.00 | 267.32 | 7067.00 | 174.62 | 52.36 | 90.93 | 430.77 | 81.51 | 1.23 | SF(Med) |
| 13800.00 | 13748.25 | 90.00 | 267.32 | 7067.00 | 177.38 | 53.08 | 90.93 | 431.37 | 76.58 | 1.22 | SF(Med) |
| 13900.00 | 13848.25 | 90.00 | 267.32 | 7067.00 | 180.15 | 53.81 | 90.93 | 431.97 | 71.65 | 1.20 | SF(Med) |
| 14000.00 | 13948.25 | 90.00 | 267.32 | 7067.00 | 182.92 | 54.53 | 90.93 | 432.56 | 66.71 | 1.18 | SF(Med) |
| 14100.00 | 14048.25 | 90.00 | 267.32 | 7067.00 | 185.68 | 55.26 | 90.93 | 433.16 | 61.77 | 1.17 | SF(Med) |
| 14200.00 | 14148.25 | 90.00 | 267.32 | 7067.00 | 188.45 | 55.98 | 90.92 | 433.76 | 56.83 | 1.15 | SF(Med) |
| 14300.00 | 14248.24 | 90.00 | 267.32 | 7067.00 | 191.22 | 56.71 | 90.92 | 434.35 | 51.89 | 1.14 | SF(Med) |
| 14400.00 | 14348.24 | 90.00 | 267.32 | 7067.00 | 193.99 | 57.44 | 90.92 | 434.95 | 46.95 | 1.12 | SF(Med) |
| 14500.00 | 14448.24 | 90.00 | 267.32 | 7067.00 | 196.76 | 58.16 | 90.92 | 435.55 | 42.01 | 1.11 | SF(Med) |
| 14600.00 | 14548.24 | 90.00 | 267.32 | 7067.00 | 199.54 | 58.89 | 90.92 | 436.14 | 37.06 | 1.09 | SF(Med) |
| 14700.00 | 14648.24 | 90.00 | 267.32 | 7067.00 | 202.31 | 59.61 | 90.92 | 436.74 | 32.11 | 1.08 | SF(Med) |
| 14800.00 | 14748.24 | 90.00 | 267.32 | 7067.00 | 205.08 | 60.34 | 90.92 | 437.34 | 27.17 | 1.07 | SF(Med) |
| 14900.00 | 14848.23 | 90.00 | 267.32 | 7067.00 | 207.86 | 61.07 | 90.92 | 437.94 | 22.21 | 1.05 | SF(Med) |
| 15000.00 | 14948.23 | 90.00 | 267.32 | 7067.00 | 210.63 | 61.79 | 90.91 | 438.53 | 17.26 | 1.04 | SF(Med) |
| 15100.00 | 15048.23 | 90.00 | 267.32 | 7067.00 | 213.41 | 62.52 | 90.91 | 439.13 | 12.31 | 1.03 | SF(Med) |
| 15200.00 | 15148.23 | 90.00 | 267.32 | 7067.00 | 216.18 | 63.25 | 90.91 | 439.73 | 7.36 | 1.02 | SF(Med) |
| 15300.00 | 15248.23 | 90.00 | 267.32 | 7067.00 | 218.96 | 63.97 | 90.91 | 440.32 | 2.40 | 1.01 | SF(Med) |
| 15400.00 | 15348.22 | 90.00 | 267.32 | 7067.00 | 221.74 | 64.70 | 90.91 | 440.92 | -2.56 | 0.99 | SF(Hi) |
| 15500.00 | 15448.22 | 90.00 | 267.32 | 7067.00 | 224.52 | 65.43 | 90.91 | 441.52 | -7.51 | 0.98 | SF(Hi) |
| 15600.00 | 15548.22 | 90.00 | 267.32 | 7067.00 | 227.30 | 66.15 | 90.91 | 442.11 | -12.47 | 0.97 | SF(Hi) |
| 15700.00 | 15648.22 | 90.00 | 267.32 | 7067.00 | 230.08 | 66.88 | 90.91 | 442.71 | -17.43 | 0.96 | SF(Hi) |
| 15768.80 | 15701.00 | 90.00 | 267.32 | 7067.00 | 231.54 | 67.27 | 90.91 | 443.41 | -18.81 | 0.96 | SF(Hi) |

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 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.35 | 20.04 | 19.31 | 27.33 | CC (Med) |
| 100.00 | 100.00 | 0.00 | 0.00 | 100.00 | 0.11 | 0.11 | 0.35 | 20.04 | 19.08 | 21.01 | CC (Med) |
| 200.00 | 200.00 | 0.00 | 0.00 | 200.00 | 0.34 | 0.34 | 0.35 | 20.04 | 18.64 | 14.28 | CC (Med) |
| 300.00 | 300.00 | 0.00 | 0.00 | 300.00 | 0.56 | 0.56 | 0.35 | 20.04 | 18.19 | 10.81 | CC (Med) |
| 400.00 | 399.98 | 0.00 | 0.00 | 399.98 | 0.79 | 0.79 | 213.49 | 21.47 | 19.19 | 9.42 | CC (Med) |
| 500.00 | 500.23 | 1.00 | 141.02 | 500.22 | 1.00 | 1.00 | 207.63 | 25.62 | 22.93 | 9.51 | CC (Med) |
| 600.00 | 600.96 | 3.02 | 141.02 | 600.89 | 1.19 | 1.19 | 203.39 | 30.42 | 27.33 | 9.84 | CC (Med) |
| 700.00 | 701.87 | 5.04 | 141.02 | 701.55 | 1.40 | 1.39 | 200.62 | 35.38 | 31.85 | 10.04 | CC (Lo) |
| 800.00 | 802.97 | 7.06 | 141.02 | 802.08 | 1.65 | 1.60 | 198.80 | 40.43 | 36.46 | 10.19 | CC (Lo) |
| 900.00 | 904.25 | 9.09 | 141.02 | 902.35 | 1.94 | 1.82 | 197.64 | 45.54 | 41.09 | 10.24 | CC (Lo) |
| 1000.00 | 1005.72 | 11.11 | 141.02 | 1002.24 | 2.28 | 2.05 | 196.94 | 50.68 | 45.73 | 10.25 | CC (Lo) |
| 1100.00 | 1107.36 | 13.15 | 141.02 | 1101.61 | 2.68 | 2.28 | 196.57 | 55.83 | 50.35 | 10.20 | CC (Lo) |
| 1200.00 | 1209.19 | 15.18 | 141.02 | 1200.33 | 3.14 | 2.53 | 196.45 | 60.98 | 54.93 | 10.08 | CC (Lo) |
| 1300.00 | 1311.19 | 17.22 | 141.02 | 1298.28 | 3.68 | 2.79 | 196.52 | 66.12 | 59.46 | 9.93 | |
| 1400.00 | 1413.38 | 19.27 | 141.02 | 1395.33 | 4.29 | 3.06 | 196.86 | 70.73 | 63.41 | 9.66 | |
| 1500.00 | 1514.73 | 20.44 | 141.02 | 1490.50 | 4.96 | 3.35 | 197.95 | 72.62 | 64.56 | 9.01 | |
| 1600.00 | 1614.71 | 20.44 | 141.02 | 1584.18 | 5.65 | 3.65 | 199.15 | 73.99 | 65.13 | 8.36 | |
| 1700.00 | 1714.69 | 20.44 | 141.02 | 1677.86 | 6.34 | 3.95 | 200.30 | 75.39 | 65.71 | 7.79 | |
| 1800.00 | 1814.67 | 20.44 | 141.02 | 1771.55 | 7.05 | 4.26 | 201.41 | 76.82 | 66.28 | 7.29 | |
| 1900.00 | 1914.65 | 20.44 | 141.02 | 1865.23 | 7.77 | 4.57 | 202.48 | 78.28 | 66.83 | 6.84 | |
| 2000.00 | 2014.63 | 20.44 | 141.02 | 1958.91 | 8.48 | 4.89 | 203.50 | 79.76 | 67.36 | 6.43 | |
| 2100.00 | 2114.61 | 20.44 | 141.02 | 2052.59 | 9.20 | 5.21 | 204.50 | 81.27 | 67.89 | 6.08 | |
| 2200.00 | 2214.59 | 20.44 | 141.02 | 2146.27 | 9.93 | 5.53 | 205.45 | 82.80 | 68.43 | 5.76 | |
| 2300.00 | 2314.57 | 20.44 | 141.02 | 2239.95 | 10.65 | 5.85 | 206.37 | 84.36 | 68.98 | 5.49 | |
| 2400.00 | 2414.54 | 20.44 | 141.02 | 2333.64 | 11.38 | 6.17 | 207.25 | 85.93 | 69.51 | 5.23 | |
| 2500.00 | 2514.52 | 20.44 | 141.02 | 2427.32 | 12.11 | 6.50 | 208.11 | 87.53 | 70.03 | 5.00 | |
| 2600.00 | 2614.50 | 20.44 | 141.02 | 2521.00 | 12.84 | 6.82 | 208.93 | 89.14 | 70.54 | 4.79 | |
| 2700.00 | 2714.48 | 20.44 | 141.02 | 2614.68 | 13.57 | 7.15 | 209.72 | 90.77 | 71.04 | 4.60 | |
| 2800.00 | 2814.46 | 20.44 | 141.02 | 2708.36 | 14.30 | 7.48 | 210.49 | 92.42 | 71.56 | 4.43 | |
| 2900.00 | 2914.44 | 20.44 | 141.02 | 2802.04 | 15.03 | 7.80 | 211.23 | 94.08 | 72.08 | 4.28 | |
| 3000.00 | 3014.42 | 20.44 | 141.02 | 2895.73 | 15.76 | 8.13 | 211.94 | 95.76 | 72.61 | 4.14 | |
| 3100.00 | 3114.40 | 20.44 | 141.02 | 2989.41 | 16.50 | 8.46 | 212.63 | 97.45 | 73.14 | 4.01 | |
| 3200.00 | 3214.38 | 20.44 | 141.02 | 3083.09 | 17.23 | 8.79 | 213.29 | 99.16 | 73.68 | 3.89 | |
| 3300.00 | 3314.35 | 20.44 | 141.02 | 3176.77 | 17.96 | 9.12 | 213.93 | 100.88 | 74.21 | 3.78 | |
| 3400.00 | 3414.33 | 20.44 | 141.02 | 3270.45 | 18.70 | 9.45 | 214.55 | 102.61 | 74.73 | 3.68 | |
| 3500.00 | 3514.31 | 20.44 | 141.02 | 3364.13 | 19.43 | 9.78 | 215.15 | 104.36 | 75.25 | 3.59 | |
| 3600.00 | 3614.29 | 20.44 | 141.02 | 3457.82 | 20.17 | 10.11 | 215.73 | 106.11 | 75.78 | 3.50 | |
| 3700.00 | 3714.27 | 20.44 | 141.02 | 3551.50 | 20.90 | 10.44 | 216.29 | 107.88 | 76.28 | 3.41 | |
| 3800.00 | 3814.25 | 20.44 | 141.02 | 3645.18 | 21.64 | 10.77 | 216.84 | 109.65 | 76.79 | 3.34 | |
| 3900.00 | 3914.23 | 20.44 | 141.02 | 3738.86 | 22.37 | 11.10 | 217.36 | 111.44 | 77.30 | 3.26 | |
| 4000.00 | 4014.21 | 20.44 | 141.02 | 3832.54 | 23.11 | 11.43 | 217.87 | 113.23 | 77.82 | 3.20 | |
| 4100.00 | 4114.19 | 20.44 | 141.02 | 3926.22 | 23.85 | 11.77 | 218.36 | 115.03 | 78.34 | 3.13 | |
| 4200.00 | 4214.16 | 20.44 | 141.02 | 4019.90 | 24.58 | 12.10 | 218.84 | 116.84 | 78.86 | 3.08 | |
| 4300.00 | 4314.14 | 20.44 | 141.02 | 4113.59 | 25.32 | 12.43 | 219.31 | 118.66 | 79.39 | 3.02 | |
| 4400.00 | 4414.12 | 20.44 | 141.02 | 4207.27 | 26.05 | 12.76 | 219.75 | 120.49 | 79.92 | 2.97 | |
| 4500.00 | 4514.10 | 20.44 | 141.02 | 4300.95 | 26.79 | 13.09 | 220.19 | 122.32 | 80.46 | 2.92 | |
| 4600.00 | 4614.08 | 20.44 | 141.02 | 4394.63 | 27.53 | 13.43 | 220.61 | 124.16 | 81.00 | 2.88 | |
| 4700.00 | 4714.06 | 20.44 | 141.02 | 4488.31 | 28.26 | 13.76 | 221.02 | 126.01 | 81.54 | 2.83 | |
| 4800.00 | 4814.04 | 20.44 | 141.02 | 4581.99 | 29.00 | 14.09 | 221.42 | 127.86 | 82.09 | 2.79 | |
| 4900.00 | 4914.02 | 20.44 | 141.02 | 4675.68 | 29.74 | 14.42 | 221.81 | 129.72 | 82.64 | 2.76 | |
| 5000.00 | 5014.00 | 20.44 | 141.02 | 4769.36 | 30.47 | 14.76 | 222.19 | 131.59 | 83.20 | 2.72 | |
| 5100.00 | 5113.98 | 20.44 | 141.02 | 4863.04 | 31.21 | 15.09 | 222.55 | 133.46 | 83.75 | 2.69 | |
| 5200.00 | 5213.95 | 20.44 | 141.02 | 4956.72 | 31.95 | 15.42 | 222.91 | 135.33 | 84.32 | 2.65 | |
| 5300.00 | 5313.93 | 20.44 | 141.02 | 5050.40 | 32.69 | 15.76 | 223.25 | 137.21 | 84.88 | 2.62 | |
| 5400.00 | 5413.91 | 20.44 | 141.02 | 5144.08 | 33.42 | 16.09 | 223.59 | 139.10 | 85.45 | 2.59 | |
| 5500.00 | 5513.89 | 20.44 | 141.02 | 5237.77 | 34.16 | 16.42 | 223.92 | 140.99 | 86.00 | 2.56 | |
| 5600.00 | 5613.87 | 20.44 | 141.02 | 5331.45 | 34.90 | 16.75 | 224.23 | 142.88 | 86.56 | 2.54 | |
| 5700.00 | 5713.85 | 20.44 | 141.02 | 5425.13 | 35.63 | 17.09 | 224.54 | 144.78 | 87.11 | 2.51 | |

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 |
| 5800.00 | 5813.83 | 20.44 | 141.02 | 5518.81 | 36.37 | 17.42 | 224.85 | 146.68 | 87.67 | 2.49 | SF(Lo) |
| 5900.00 | 5913.81 | 20.44 | 141.02 | 5612.49 | 37.11 | 17.75 | 225.14 | 148.59 | 88.23 | 2.46 | SF(Lo) |
| 6000.00 | 6013.79 | 20.44 | 141.02 | 5706.17 | 37.85 | 18.09 | 225.43 | 150.50 | 88.79 | 2.44 | SF(Lo) |
| 6100.00 | 6113.76 | 20.44 | 141.02 | 5799.86 | 38.58 | 18.42 | 225.71 | 152.42 | 89.35 | 2.42 | SF(Lo) |
| 6200.00 | 6213.74 | 20.44 | 141.02 | 5893.54 | 39.32 | 18.76 | 225.98 | 154.34 | 89.92 | 2.40 | SF(Lo) |
| 6300.00 | 6313.72 | 20.44 | 141.02 | 5987.22 | 40.06 | 19.09 | 226.25 | 156.26 | 90.47 | 2.38 | SF(Lo) |
| 6400.00 | 6413.70 | 20.44 | 141.02 | 6080.90 | 40.80 | 19.42 | 226.51 | 158.18 | 91.02 | 2.36 | SF(Lo) |
| 6500.00 | 6516.69 | 18.41 | 152.02 | 6177.74 | 41.40 | 19.75 | 226.11 | 159.64 | 91.67 | 2.35 | SF(Lo) |
| 6600.00 | 6620.82 | 16.79 | 179.31 | 6277.16 | 41.26 | 19.94 | 221.09 | 158.41 | 93.22 | 2.43 | SF(Lo) |
| 6700.00 | 6720.53 | 18.81 | 204.77 | 6372.22 | 40.48 | 19.97 | 195.26 | 157.80 | 98.47 | 2.66 | |
| 6800.00 | 6817.15 | 23.27 | 222.52 | 6462.47 | 39.18 | 19.82 | 162.74 | 160.40 | 106.56 | 2.98 | |
| 6900.00 | 6911.05 | 28.90 | 233.92 | 6546.83 | 37.49 | 19.50 | 134.34 | 165.84 | 116.45 | 3.36 | |
| 7000.00 | 7002.55 | 35.02 | 241.54 | 6624.46 | 35.56 | 18.97 | 113.57 | 173.48 | 127.36 | 3.76 | |
| 7100.00 | 7091.96 | 41.33 | 246.99 | 6694.73 | 33.56 | 18.19 | 98.90 | 182.53 | 138.66 | 4.16 | |
| 7200.00 | 7179.57 | 47.72 | 251.12 | 6757.17 | 31.70 | 17.12 | 88.33 | 192.22 | 149.90 | 4.54 | |
| 7300.00 | 7265.65 | 54.11 | 254.43 | 6811.42 | 30.17 | 15.70 | 80.54 | 201.91 | 160.76 | 4.91 | |
| 7400.00 | 7350.44 | 60.48 | 257.20 | 6857.22 | 29.12 | 13.99 | 74.73 | 211.02 | 170.52 | 5.21 | |
| 7500.00 | 7434.20 | 66.82 | 259.62 | 6894.38 | 28.56 | 12.21 | 70.43 | 219.12 | 178.28 | 5.37 | |
| 7600.00 | 7517.12 | 73.13 | 261.79 | 6922.76 | 28.46 | 10.77 | 67.33 | 225.88 | 183.73 | 5.36 | |
| 7700.00 | 7599.42 | 79.42 | 263.81 | 6942.27 | 28.73 | 10.20 | 65.21 | 231.03 | 186.70 | 5.21 | |
| 7800.00 | 7681.29 | 85.69 | 265.73 | 6952.88 | 29.33 | 10.86 | 63.96 | 234.41 | 186.89 | 4.93 | |
| 7900.00 | 7768.63 | 90.00 | 267.03 | 6955.00 | 30.16 | 12.13 | 63.55 | 235.73 | 185.24 | 4.67 | |
| 8000.00 | 7868.63 | 90.00 | 267.03 | 6955.00 | 31.21 | 12.66 | 63.56 | 235.82 | 183.51 | 4.51 | |
| 8100.00 | 7968.63 | 90.00 | 267.03 | 6955.00 | 32.45 | 13.23 | 63.57 | 235.91 | 181.44 | 4.33 | |
| 8200.00 | 8068.63 | 90.00 | 267.03 | 6955.00 | 33.86 | 13.83 | 63.58 | 236.00 | 179.01 | 4.14 | |
| 8300.00 | 8168.63 | 90.00 | 267.03 | 6955.00 | 35.44 | 14.46 | 63.59 | 236.10 | 176.22 | 3.94 | |
| 8400.00 | 8268.63 | 90.00 | 267.03 | 6955.00 | 37.16 | 15.11 | 63.60 | 236.19 | 173.19 | 3.75 | |
| 8500.00 | 8368.63 | 90.00 | 267.03 | 6955.00 | 39.00 | 15.77 | 63.62 | 236.28 | 169.95 | 3.56 | |
| 8600.00 | 8468.63 | 90.00 | 267.03 | 6955.00 | 40.94 | 16.44 | 63.63 | 236.37 | 166.46 | 3.38 | |
| 8700.00 | 8568.63 | 90.00 | 267.03 | 6955.00 | 42.98 | 17.12 | 63.64 | 236.46 | 162.83 | 3.21 | |
| 8800.00 | 8668.63 | 90.00 | 267.03 | 6955.00 | 45.10 | 17.81 | 63.65 | 236.56 | 158.95 | 3.05 | |
| 8900.00 | 8768.63 | 90.00 | 267.03 | 6955.00 | 47.30 | 18.50 | 63.66 | 236.65 | 155.15 | 2.90 | |
| 9000.00 | 8868.63 | 90.00 | 267.03 | 6955.00 | 49.55 | 19.19 | 63.67 | 236.74 | 150.96 | 2.76 | |
| 9100.00 | 8968.63 | 90.00 | 267.03 | 6955.00 | 51.85 | 19.89 | 63.68 | 236.83 | 146.74 | 2.63 | |
| 9200.00 | 9068.63 | 90.00 | 267.03 | 6955.00 | 54.21 | 20.59 | 63.69 | 236.92 | 142.45 | 2.51 | |
| 9300.00 | 9168.63 | 90.00 | 267.03 | 6955.00 | 56.60 | 21.29 | 63.70 | 237.02 | 138.11 | 2.40 | SF(Lo) |
| 9400.00 | 9268.63 | 90.00 | 267.03 | 6955.00 | 59.03 | 21.99 | 63.71 | 237.11 | 133.71 | 2.29 | SF(Lo) |
| 9500.00 | 9368.63 | 90.00 | 267.03 | 6955.00 | 61.49 | 22.69 | 63.73 | 237.20 | 129.27 | 2.20 | SF(Lo) |
| 9600.00 | 9468.63 | 90.00 | 267.03 | 6955.00 | 63.98 | 23.39 | 63.74 | 237.29 | 124.79 | 2.11 | SF(Lo) |
| 9700.00 | 9568.63 | 90.00 | 267.03 | 6955.00 | 66.50 | 24.10 | 63.75 | 237.38 | 120.26 | 2.03 | SF(Lo) |
| 9800.00 | 9668.63 | 90.00 | 267.03 | 6955.00 | 69.03 | 24.81 | 63.76 | 237.48 | 115.71 | 1.95 | SF(Lo) |
| 9900.00 | 9768.63 | 90.00 | 267.03 | 6955.00 | 71.59 | 25.51 | 63.77 | 237.57 | 111.12 | 1.88 | SF(Lo) |
| 10000.00 | 9868.63 | 90.00 | 267.03 | 6955.00 | 74.17 | 26.22 | 63.78 | 237.66 | 106.50 | 1.81 | SF(Lo) |
| 10100.00 | 9968.63 | 90.00 | 267.03 | 6955.00 | 76.76 | 26.93 | 63.79 | 237.75 | 101.86 | 1.75 | SF(Lo) |
| 10200.00 | 10068.63 | 90.00 | 267.03 | 6955.00 | 79.36 | 27.64 | 63.80 | 237.84 | 97.20 | 1.69 | SF(Lo) |
| 10300.00 | 10168.63 | 90.00 | 267.03 | 6955.00 | 81.98 | 28.35 | 63.81 | 237.94 | 92.51 | 1.64 | SF(Lo) |
| 10400.00 | 10268.63 | 90.00 | 267.03 | 6955.00 | 84.61 | 29.06 | 63.82 | 238.03 | 87.80 | 1.58 | SF(Lo) |
| 10500.00 | 10368.63 | 90.00 | 267.03 | 6955.00 | 87.25 | 29.77 | 63.84 | 238.12 | 83.07 | 1.54 | SF(Lo) |
| 10600.00 | 10468.63 | 90.00 | 267.03 | 6955.00 | 89.90 | 30.48 | 63.85 | 238.21 | 78.32 | 1.49 | SF(Med) |
| 10700.00 | 10568.63 | 90.00 | 267.03 | 6955.00 | 92.56 | 31.20 | 63.86 | 238.31 | 73.56 | 1.45 | SF(Med) |
| 10800.00 | 10668.63 | 90.00 | 267.03 | 6955.00 | 95.23 | 31.91 | 63.87 | 238.40 | 68.78 | 1.41 | SF(Med) |
| 10900.00 | 10768.63 | 90.00 | 267.03 | 6955.00 | 97.90 | 32.62 | 63.88 | 238.49 | 63.99 | 1.37 | SF(Med) |
| 11000.00 | 10868.63 | 90.00 | 267.03 | 6955.00 | 100.58 | 33.34 | 63.89 | 238.58 | 59.20 | 1.33 | SF(Med) |
| 11100.00 | 10968.63 | 90.00 | 267.03 | 6955.00 | 103.27 | 34.06 | 63.90 | 238.67 | 54.40 | 1.30 | SF(Med) |
| 11200.00 | 11068.63 | 90.00 | 267.03 | 6955.00 | 105.96 | 34.77 | 63.91 | 238.77 | 49.60 | 1.26 | SF(Med) |
| 11300.00 | 11168.63 | 90.00 | 267.03 | 6955.00 | 108.66 | 35.49 | 63.92 | 238.86 | 44.81 | 1.23 | SF(Med) |
| 11400.00 | 11268.63 | 90.00 | 267.03 | 6955.00 | 111.37 | 36.21 | 63.93 | 238.95 | 40.03 | 1.20 | SF(Med) |
| 11500.00 | 11368.63 | 90.00 | 267.03 | 6955.00 | 114.07 | 36.92 | 63.94 | 239.04 | 35.27 | 1.17 | SF(Med) |

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 |
| 11600.00 | 11468.63 | 90.00 | 267.03 | 6955.00 | 116.79 | 37.64 | 63.95 | 239.14 | 30.43 | 1.15 | SF(Med) |
| 11700.00 | 11568.63 | 90.00 | 267.03 | 6955.00 | 119.50 | 38.36 | 63.97 | 239.23 | 25.54 | 1.12 | SF(Med) |
| 11800.00 | 11668.63 | 90.00 | 267.03 | 6955.00 | 122.23 | 39.08 | 63.98 | 239.32 | 20.68 | 1.09 | SF(Med) |
| 11900.00 | 11768.63 | 90.00 | 267.03 | 6955.00 | 124.95 | 39.80 | 63.99 | 239.41 | 15.83 | 1.07 | SF(Med) |
| 12000.00 | 11868.63 | 90.00 | 267.03 | 6955.00 | 127.68 | 40.52 | 64.00 | 239.50 | 10.84 | 1.05 | SF(Med) |
| 12100.00 | 11968.63 | 90.00 | 267.03 | 6955.00 | 130.41 | 41.24 | 64.01 | 239.60 | 5.84 | 1.02 | SF(Med) |
| 12200.00 | 12068.63 | 90.00 | 267.03 | 6955.00 | 133.14 | 41.96 | 64.02 | 239.69 | 0.85 | 1.00 | SF(Med) |
| 12300.00 | 12168.63 | 90.00 | 267.03 | 6955.00 | 135.88 | 42.68 | 64.03 | 239.78 | -4.13 | 0.98 | SF(Hi) |
| 12400.00 | 12268.63 | 90.00 | 267.03 | 6955.00 | 138.62 | 43.40 | 64.04 | 239.87 | -9.09 | 0.96 | SF(Hi) |
| 12500.00 | 12368.63 | 90.00 | 267.03 | 6955.00 | 141.36 | 44.12 | 64.05 | 239.97 | -14.05 | 0.94 | SF(Hi) |
| 12600.00 | 12468.63 | 90.00 | 267.03 | 6955.00 | 144.10 | 44.85 | 64.06 | 240.06 | -19.00 | 0.93 | SF(Hi) |
| 12700.00 | 12568.63 | 90.00 | 267.03 | 6955.00 | 146.85 | 45.57 | 64.07 | 240.15 | -23.94 | 0.91 | SF(Hi) |
| 12800.00 | 12668.63 | 90.00 | 267.03 | 6955.00 | 149.60 | 46.29 | 64.08 | 240.24 | -28.89 | 0.89 | SF(Hi) |
| 12900.00 | 12768.63 | 90.00 | 267.03 | 6955.00 | 152.34 | 47.01 | 64.09 | 240.34 | -33.84 | 0.88 | SF(Hi) |
| 13000.00 | 12868.63 | 90.00 | 267.03 | 6955.00 | 155.10 | 47.74 | 64.11 | 240.43 | -38.78 | 0.86 | SF(Hi) |
| 13100.00 | 12968.63 | 90.00 | 267.03 | 6955.00 | 157.85 | 48.46 | 64.12 | 240.52 | -43.73 | 0.85 | SF(Hi) |
| 13200.00 | 13068.63 | 90.00 | 267.03 | 6955.00 | 160.60 | 49.18 | 64.13 | 240.61 | -48.67 | 0.83 | SF(Hi) |
| 13300.00 | 13168.63 | 90.00 | 267.03 | 6955.00 | 163.36 | 49.91 | 64.14 | 240.71 | -53.62 | 0.82 | SF(Hi) |
| 13400.00 | 13268.63 | 90.00 | 267.03 | 6955.00 | 166.12 | 50.63 | 64.15 | 240.80 | -58.57 | 0.80 | SF(Hi) |
| 13500.00 | 13368.63 | 90.00 | 267.03 | 6955.00 | 168.88 | 51.36 | 64.16 | 240.89 | -63.53 | 0.79 | SF(Hi) |
| 13600.00 | 13468.63 | 90.00 | 267.03 | 6955.00 | 171.64 | 52.08 | 64.17 | 240.98 | -68.48 | 0.78 | SF(Hi) |
| 13700.00 | 13568.63 | 90.00 | 267.03 | 6955.00 | 174.40 | 52.81 | 64.18 | 241.08 | -73.44 | 0.77 | SF(Hi) |
| 13800.00 | 13668.63 | 90.00 | 267.03 | 6955.00 | 177.16 | 53.53 | 64.19 | 241.17 | -78.40 | 0.75 | SF(Hi) |
| 13900.00 | 13768.63 | 90.00 | 267.03 | 6955.00 | 179.93 | 54.26 | 64.20 | 241.26 | -83.36 | 0.74 | SF(Hi) |
| 14000.00 | 13868.63 | 90.00 | 267.03 | 6955.00 | 182.69 | 54.98 | 64.21 | 241.35 | -88.32 | 0.73 | SF(Hi) |
| 14100.00 | 13968.63 | 90.00 | 267.03 | 6955.00 | 185.46 | 55.71 | 64.22 | 241.44 | -93.28 | 0.72 | SF(Hi) |
| 14200.00 | 14068.63 | 90.00 | 267.03 | 6955.00 | 188.22 | 56.43 | 64.23 | 241.54 | -98.25 | 0.71 | SF(Hi) |
| 14300.00 | 14168.63 | 90.00 | 267.03 | 6955.00 | 190.99 | 57.16 | 64.24 | 241.63 | -103.22 | 0.70 | SF(Hi) |
| 14400.00 | 14268.63 | 90.00 | 267.03 | 6955.00 | 193.76 | 57.89 | 64.25 | 241.72 | -108.19 | 0.69 | SF(Hi) |
| 14500.00 | 14368.63 | 90.00 | 267.03 | 6955.00 | 196.53 | 58.61 | 64.26 | 241.81 | -113.16 | 0.68 | SF(Hi) |
| 14600.00 | 14468.63 | 90.00 | 267.03 | 6955.00 | 199.30 | 59.34 | 64.28 | 241.91 | -118.14 | 0.67 | SF(Hi) |
| 14700.00 | 14568.63 | 90.00 | 267.03 | 6955.00 | 202.07 | 60.07 | 64.29 | 242.00 | -123.12 | 0.66 | SF(Hi) |
| 14800.00 | 14668.63 | 90.00 | 267.03 | 6955.00 | 204.85 | 60.79 | 64.30 | 242.09 | -128.09 | 0.65 | SF(Hi) |
| 14900.00 | 14768.63 | 90.00 | 267.03 | 6955.00 | 207.62 | 61.52 | 64.31 | 242.18 | -133.08 | 0.65 | SF(Hi) |
| 15000.00 | 14868.63 | 90.00 | 267.03 | 6955.00 | 210.39 | 62.25 | 64.32 | 242.28 | -138.06 | 0.64 | SF(Hi) |
| 15100.00 | 14968.63 | 90.00 | 267.03 | 6955.00 | 213.17 | 62.97 | 64.33 | 242.37 | -143.04 | 0.63 | SF(Hi) |
| 15200.00 | 15068.63 | 90.00 | 267.03 | 6955.00 | 215.94 | 63.70 | 64.34 | 242.46 | -148.03 | 0.62 | SF(Hi) |
| 15300.00 | 15168.63 | 90.00 | 267.03 | 6955.00 | 218.72 | 64.43 | 64.35 | 242.56 | -153.01 | 0.61 | SF(Hi) |
| 15400.00 | 15268.63 | 90.00 | 267.03 | 6955.00 | 221.49 | 65.16 | 64.36 | 242.65 | -158.00 | 0.61 | SF(Hi) |
| 15500.00 | 15368.63 | 90.00 | 267.03 | 6955.00 | 224.27 | 65.89 | 64.37 | 242.74 | -162.99 | 0.60 | SF(Hi) |
| 15600.00 | 15468.63 | 90.00 | 267.03 | 6955.00 | 227.05 | 66.61 | 64.38 | 242.83 | -167.99 | 0.59 | SF(Hi) |
| 15700.00 | 15568.63 | 90.00 | 267.03 | 6955.00 | 229.83 | 67.34 | 64.39 | 242.93 | -172.98 | 0.58 | SF(Hi) |
| 15768.80 | 15628.56 | 90.00 | 267.03 | 6955.00 | 231.49 | 67.78 | 64.40 | 243.15 | -174.87 | 0.58 | SF(Hi) |