

**5D Plan Report**

Synergy Resources

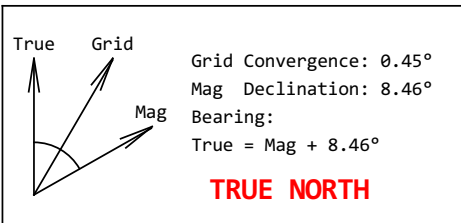
Field Name: *CO N - NAD 83*
Site Name: *Goetzel 25-29 Pad*
Well Name: *Goetzel 13C-30-M*
Plan: *P1:V1*

5 December 2016





Goetzel 13C-30-M
Weld County, CO
Precision 562



Plan Data for Goetzel 13C-30-M

Plan Point Information:

MD	Inc	Az	TVD	+N/-S	+E/-W	VSec	DLS	Toolface
(USft)	(°)	(°)	(USft)	(USft)	(USft)	(DLSU)	(°)	(°)
0.00	0.00	0.00	0.00	-0.00	-0.00	0.00	0.00	0.0
600.00	0.00	0.00	600.00	-0.00	-0.00	0.00	0.00	0.0
1573.53	19.47	138.63	1554.90	-122.95	108.27	-73.66	2.00	138.6
6533.27	19.47	138.63	6231.00	-1363.68	1200.81	-816.96	0.00	0.0
7810.07	90.00	267.77	7067.00	-1620.04	510.11	-83.87	8.00	127.5
15701.00	90.00	267.77	7067.00	-1927.51	-7374.83	7622.56	0.00	0.0

Target Set Information:

Name: Goetzel 13C-30-M

Position offsets from Slot centre

Name	TVD	+N/-S	+E/-W	Northing	Easting	Lat	Long
	(USft)	(USft)	(USft)	(USft)	(USft)	(°)	(°)
LP 13C-30-M	7067.00	-1620.04	510.11	1408687.08	3194160.66	40.453151	-104.802306
PBHL 13C-30-M	7067.00	-1927.51	-7374.83	1408317.75	3186278.38	40.452304	-104.830639

Plan Data for Goetzel 13C-30-M

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

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

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

Slot: Goetzel 13C-30-M
Position:
Offset is from Site centre
+N/-S: -179.97USft
Northing: 1410303.08USft
Latitude: 40.457598°
+E/-W: -1.39USft
Easting: 3193637.85USft
Longitude: -104.804139°
Elevation Above VRD: 4732.00USft

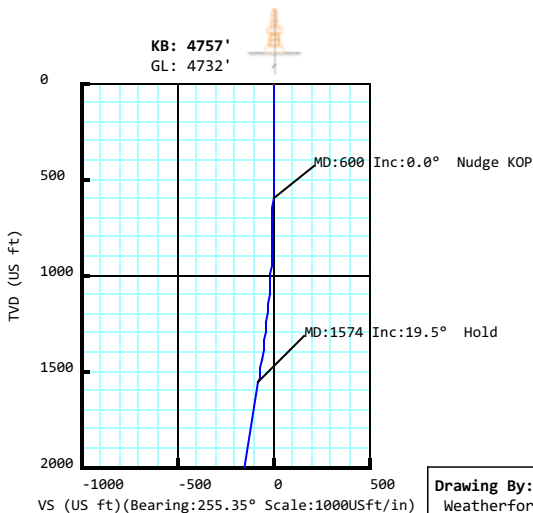
Well: Goetzel 13C-30-M
Type: Main-Well
File Number:

Plan Folder: P1
Plan: P1:V1
Vertical Section: Position offset of origin from Slot centre:
+N/-S: 0.00USft
Azimuth: 255.35°
+E/-W: 0.00USft

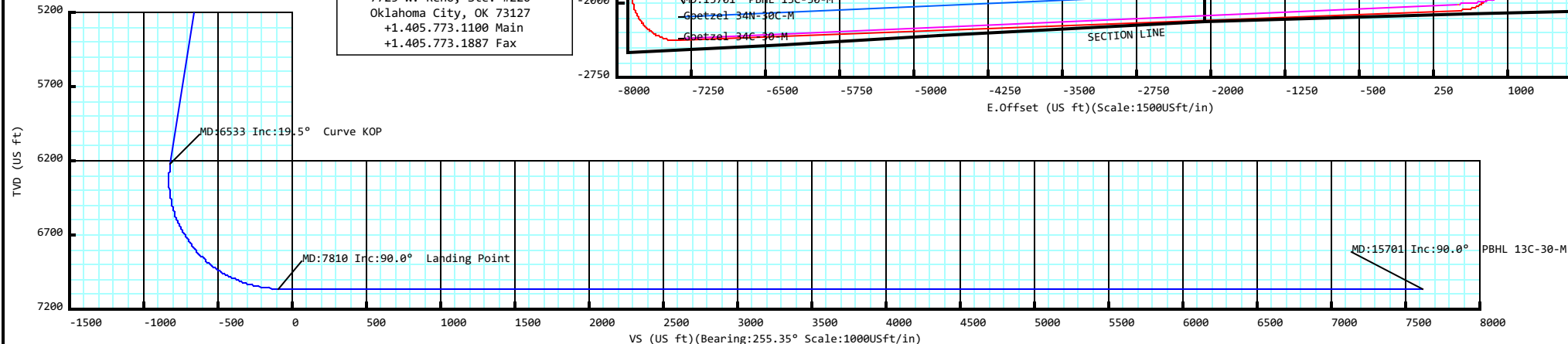
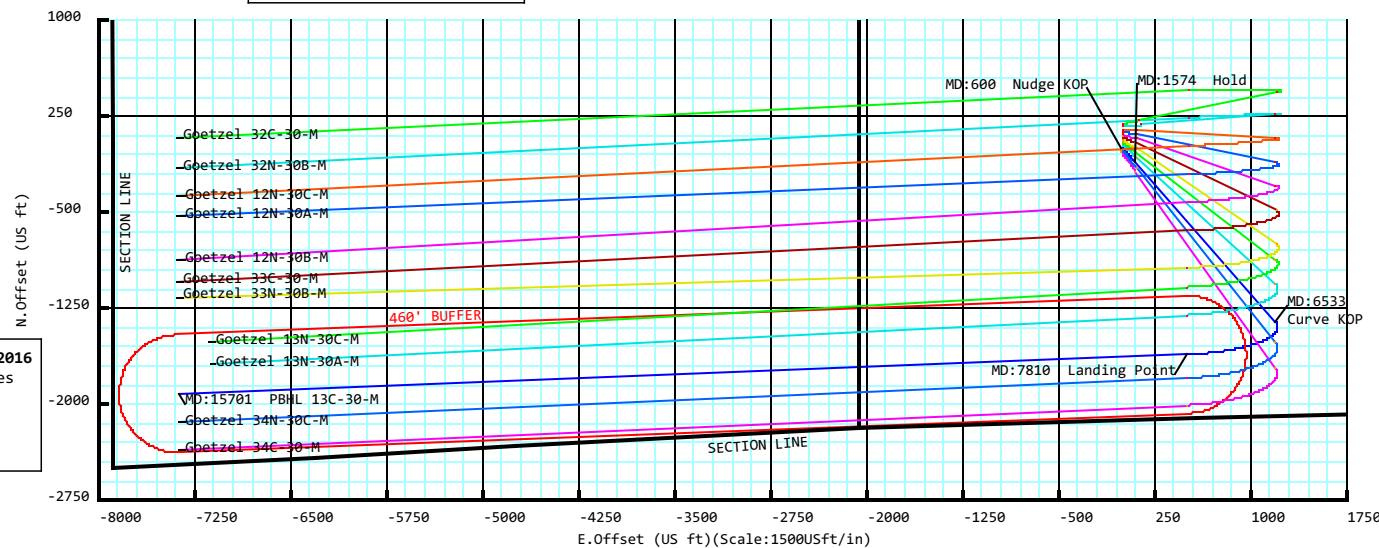
Magnetic Parameters:
Model: Field Strength: Declination: Dip: Date:
bggm2016 52524(nT) 8.46° 66.93° 2016-11-18



- Goetzel 13C-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 34N-30C-M
- Goetzel 34C-30-M



Drawing By: GWR Date: 12/05/2016
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Goetzel 13C-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 13C-30-M	Position (Relative to Site Centre)			
	+N/-S: -179.97 US ft	Northing: 1410303.08 US ft	Latitude: 40.457598000	
	+E/-W: -1.39 US ft	Easting: 3193637.85 US ft	Longitude: -104.804139000	
	Slot TVD Reference: Ground Elevation			
	Elevation above MSL: 4732.00 US ft			
	Comment:			
Well: Goetzel 13C-30-M	Type:Main well		UWI:	Plan:P1:V1
	File Number:	Comment:		
	Closure Distance:7622.56US ft		Closure Azimuth:255.35°	
	Vertical Section: Position of Origin (Relative to Slot centre)			
	+N/-S: 0.00 US ft		+E/-W: 0.00 US ft	Az: 255.35°
	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°
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Target set: Goetzel 13C-30-M Comment:

Target Name:	Shape:	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (USFt)	Easting (USFt)	Comment
LP 13C-30-M	Point	7067.00	-1620.04	510.11	1408687.08	3194160.66	
PBHL 13C-30-M	Point	7067.00	-1927.51	-7374.83	1408317.75	3186278.38	

Wellpath created using minimum curvature.

Tie Point:

MD: 0.00 USFt	Inclination: 0.00°	Azimuth: 0.00°	TVD: 0.00 USFt	North Offset: - 0.00 USFt	East Offset: - 0.00 USFt
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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
0.00	0.00	0.00	0.00	0.00	-0.00	-0.00	0.00	0.00	0.00	
600.00	0.00	0.00	600.00	0.00	-0.00	-0.00	0.00	0.00	0.00	Nudge KOP
1573.53	19.47	138.63	1554.90	-73.66	-122.95	108.27	2.00	0.00	2.00	Hold
6533.27	19.47	138.63	6231.00	-816.96	-1363.68	1200.81	0.00	0.00	0.00	Curve KOP
7810.07	90.00	267.77	7067.00	-83.87	-1620.04	510.11	5.52	10.11	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
15701.00	90.00	267.77	7067.00	7622.56	-1927.51	-7374.83	0.00	0.00	0.00	PBHL 13C-30-M
Interpolated Points: (Relative to Slot centre)(TVD relative to Drill Floor)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	B.Rate (°/100US ft)	T.Rate (°/100US ft)	DLS (°/100US ft)	Comment
0.00	0.00	0.00	0.00	0.00	-0.00	-0.00	0.00	0.00	0.00	
100.00	0.00	0.00	100.00	0.00	-0.00	-0.00	0.00	0.00	0.00	
200.00	0.00	0.00	200.00	0.00	-0.00	-0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	-0.00	-0.00	0.00	0.00	0.00	
400.00	0.00	0.00	400.00	0.00	-0.00	-0.00	0.00	0.00	0.00	
500.00	0.00	0.00	500.00	0.00	-0.00	-0.00	0.00	0.00	0.00	
600.00	0.00	0.00	600.00	0.00	-0.00	-0.00	0.00	0.00	0.00	Nudge KOP
700.00	2.00	138.63	699.98	-0.78	-1.31	1.15	2.00	0.00	2.00	
800.00	4.00	138.63	799.84	-3.14	-5.24	4.61	2.00	-0.00	2.00	
900.00	6.00	138.63	899.45	-7.06	-11.78	10.37	2.00	0.00	2.00	
1000.00	8.00	138.63	998.70	-12.54	-20.92	18.42	2.00	0.00	2.00	
1100.00	10.00	138.63	1097.47	-19.57	-32.66	28.76	2.00	-0.00	2.00	
1200.00	12.00	138.63	1195.62	-28.15	-46.98	41.37	2.00	0.00	2.00	
1300.00	14.00	138.63	1293.06	-38.26	-63.86	56.24	2.00	-0.00	2.00	
1400.00	16.00	138.63	1389.64	-49.90	-83.29	73.34	2.00	0.00	2.00	
1500.00	18.00	138.63	1485.27	-63.04	-105.23	92.66	2.00	-0.00	2.00	
1573.53	19.47	138.63	1554.90	-73.66	-122.95	108.27	2.00	0.00	2.00	Hold
1600.00	19.47	138.63	1579.86	-77.63	-129.58	114.10	0.00	0.00	0.00	
1700.00	19.47	138.63	1674.14	-92.61	-154.59	136.13	0.00	0.00	0.00	
1800.00	19.47	138.63	1768.42	-107.60	-179.61	158.16	0.00	0.00	0.00	
1900.00	19.47	138.63	1862.70	-122.59	-204.62	180.19	0.00	0.00	0.00	
2000.00	19.47	138.63	1956.98	-137.57	-229.64	202.21	0.00	0.00	0.00	
2100.00	19.47	138.63	2051.26	-152.56	-254.66	224.24	0.00	0.00	0.00	
2200.00	19.47	138.63	2145.54	-167.55	-279.67	246.27	0.00	0.00	0.00	
2300.00	19.47	138.63	2239.83	-182.53	-304.69	268.30	0.00	0.00	0.00	
2400.00	19.47	138.63	2334.11	-197.52	-329.70	290.33	0.00	0.00	0.00	
2500.00	19.47	138.63	2428.39	-212.51	-354.72	312.36	0.00	0.00	0.00	
2600.00	19.47	138.63	2522.67	-227.49	-379.73	334.38	0.00	0.00	0.00	
2700.00	19.47	138.63	2616.95	-242.48	-404.75	356.41	0.00	0.00	0.00	
2800.00	19.47	138.63	2711.23	-257.47	-429.77	378.44	0.00	0.00	0.00	
2900.00	19.47	138.63	2805.51	-272.45	-454.78	400.47	0.00	0.00	0.00	
3000.00	19.47	138.63	2899.79	-287.44	-479.80	422.50	0.00	0.00	0.00	
3100.00	19.47	138.63	2994.08	-302.43	-504.81	444.53	0.00	0.00	0.00	
3200.00	19.47	138.63	3088.36	-317.41	-529.83	466.55	0.00	0.00	0.00	
3300.00	19.47	138.63	3182.64	-332.40	-554.85	488.58	0.00	0.00	0.00	
3400.00	19.47	138.63	3276.92	-347.39	-579.86	510.61	0.00	0.00	0.00	
3500.00	19.47	138.63	3371.20	-362.37	-604.88	532.64	0.00	0.00	0.00	
3600.00	19.47	138.63	3465.48	-377.36	-629.89	554.67	0.00	0.00	0.00	
3700.00	19.47	138.63	3559.76	-392.35	-654.91	576.69	0.00	0.00	0.00	
3800.00	19.47	138.63	3654.04	-407.33	-679.93	598.72	0.00	0.00	0.00	
3900.00	19.47	138.63	3748.33	-422.32	-704.94	620.75	0.00	0.00	0.00	
4000.00	19.47	138.63	3842.61	-437.31	-729.96	642.78	0.00	0.00	0.00	
4100.00	19.47	138.63	3936.89	-452.29	-754.97	664.81	0.00	0.00	0.00	
4200.00	19.47	138.63	4031.17	-467.28	-779.99	686.84	0.00	0.00	0.00	
4300.00	19.47	138.63	4125.45	-482.27	-805.00	708.86	0.00	0.00	0.00	
4400.00	19.47	138.63	4219.73	-497.25	-830.02	730.89	0.00	0.00	0.00	
4500.00	19.47	138.63	4314.01	-512.24	-855.04	752.92	0.00	0.00	0.00	
4600.00	19.47	138.63	4408.30	-527.23	-880.05	774.95	0.00	0.00	0.00	
4700.00	19.47	138.63	4502.58	-542.21	-905.07	796.98	0.00	0.00	0.00	
4800.00	19.47	138.63	4596.86	-557.20	-930.08	819.01	0.00	0.00	0.00	
4900.00	19.47	138.63	4691.14	-572.19	-955.10	841.03	0.00	0.00	0.00	
5000.00	19.47	138.63	4785.42	-587.17	-980.12	863.06	0.00	0.00	0.00	
5100.00	19.47	138.63	4879.70	-602.16	-1005.13	885.09	0.00	0.00	0.00	
5200.00	19.47	138.63	4973.98	-617.15	-1030.15	907.12	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	19.47	138.63	5068.26	-632.13	-1055.16	929.15	0.00	0.00	0.00	
5400.00	19.47	138.63	5162.55	-647.12	-1080.18	951.18	0.00	0.00	0.00	
5500.00	19.47	138.63	5256.83	-662.11	-1105.20	973.20	0.00	0.00	0.00	
5600.00	19.47	138.63	5351.11	-677.09	-1130.21	995.23	0.00	0.00	0.00	
5700.00	19.47	138.63	5445.39	-692.08	-1155.23	1017.26	0.00	0.00	0.00	
5800.00	19.47	138.63	5539.67	-707.07	-1180.24	1039.29	0.00	0.00	0.00	
5900.00	19.47	138.63	5633.95	-722.05	-1205.26	1061.32	0.00	0.00	0.00	
6000.00	19.47	138.63	5728.23	-737.04	-1230.27	1083.35	0.00	0.00	0.00	
6100.00	19.47	138.63	5822.51	-752.03	-1255.29	1105.37	0.00	0.00	0.00	
6200.00	19.47	138.63	5916.80	-767.01	-1280.31	1127.40	0.00	0.00	0.00	
6300.00	19.47	138.63	6011.08	-782.00	-1305.32	1149.43	0.00	0.00	0.00	
6400.00	19.47	138.63	6105.36	-796.99	-1330.34	1171.46	0.00	0.00	0.00	
6500.00	19.47	138.63	6199.64	-811.97	-1355.35	1193.49	0.00	0.00	0.00	
6533.27	19.47	138.63	6231.00	-816.96	-1363.68	1200.81	0.00	0.00	0.00	Curve KOP
6600.00	16.74	153.48	6294.46	-823.94	-1380.64	1212.47	-4.09	22.25	8.00	
6700.00	15.38	182.28	6390.71	-823.04	-1406.82	1218.38	-1.36	28.79	8.00	
6800.00	17.82	209.24	6486.67	-808.55	-1433.47	1210.37	2.44	26.96	8.00	
6900.00	22.88	227.25	6580.49	-780.74	-1460.07	1188.58	5.06	18.01	8.00	
7000.00	29.23	238.42	6670.33	-740.17	-1486.09	1153.44	6.35	11.18	8.00	
7100.00	36.19	245.76	6754.45	-687.61	-1511.04	1105.64	6.96	7.33	8.00	
7200.00	43.47	250.95	6831.21	-624.09	-1534.43	1046.10	7.28	5.20	8.00	
7300.00	50.93	254.91	6899.12	-550.85	-1555.80	975.99	7.46	3.95	8.00	
7400.00	58.50	258.09	6956.85	-469.32	-1574.74	896.66	7.57	3.19	8.00	
7500.00	66.13	260.80	7003.28	-381.07	-1590.87	809.67	7.63	2.71	8.00	
7600.00	73.81	263.20	7037.50	-287.84	-1603.89	716.70	7.68	2.40	8.00	
7700.00	81.51	265.42	7058.86	-191.42	-1613.54	619.57	7.70	2.22	8.00	
7800.00	89.22	267.55	7066.93	-93.71	-1619.63	520.17	7.71	2.13	8.00	
7810.07	90.00	267.77	7067.00	-83.87	-1620.04	510.11	7.72	2.12	8.00	Landing Point
7900.00	90.00	267.77	7067.00	3.96	-1623.55	420.24	0.00	0.00	0.00	
8000.00	90.00	267.77	7067.00	101.62	-1627.44	320.32	0.00	0.00	0.00	
8100.00	90.00	267.77	7067.00	199.28	-1631.34	220.39	0.00	0.00	0.00	
8200.00	90.00	267.77	7067.00	296.95	-1635.24	120.47	0.00	0.00	0.00	
8300.00	90.00	267.77	7067.00	394.61	-1639.13	20.55	0.00	0.00	0.00	
8400.00	90.00	267.77	7067.00	492.27	-1643.03	-79.38	0.00	0.00	0.00	
8500.00	90.00	267.77	7067.00	589.93	-1646.93	-179.30	0.00	0.00	0.00	
8600.00	90.00	267.77	7067.00	687.59	-1650.82	-279.23	0.00	0.00	0.00	
8700.00	90.00	267.77	7067.00	785.25	-1654.72	-379.15	0.00	0.00	0.00	
8800.00	90.00	267.77	7067.00	882.92	-1658.62	-479.07	0.00	0.00	0.00	
8900.00	90.00	267.77	7067.00	980.58	-1662.51	-579.00	0.00	0.00	0.00	
9000.00	90.00	267.77	7067.00	1078.24	-1666.41	-678.92	0.00	0.00	0.00	
9100.00	90.00	267.77	7067.00	1175.90	-1670.30	-778.85	0.00	0.00	0.00	
9200.00	90.00	267.77	7067.00	1273.56	-1674.20	-878.77	0.00	0.00	0.00	
9300.00	90.00	267.77	7067.00	1371.23	-1678.10	-978.69	0.00	0.00	0.00	
9400.00	90.00	267.77	7067.00	1468.89	-1681.99	-1078.62	0.00	0.00	0.00	
9500.00	90.00	267.77	7067.00	1566.55	-1685.89	-1178.54	0.00	0.00	0.00	
9600.00	90.00	267.77	7067.00	1664.21	-1689.79	-1278.47	0.00	0.00	0.00	
9700.00	90.00	267.77	7067.00	1761.87	-1693.68	-1378.39	0.00	0.00	0.00	
9800.00	90.00	267.77	7067.00	1859.54	-1697.58	-1478.31	0.00	0.00	0.00	
9900.00	90.00	267.77	7067.00	1957.20	-1701.48	-1578.24	0.00	0.00	0.00	
10000.00	90.00	267.77	7067.00	2054.86	-1705.37	-1678.16	0.00	0.00	0.00	
10100.00	90.00	267.77	7067.00	2152.52	-1709.27	-1778.09	0.00	0.00	0.00	
10200.00	90.00	267.77	7067.00	2250.18	-1713.17	-1878.01	0.00	0.00	0.00	
10300.00	90.00	267.77	7067.00	2347.84	-1717.06	-1977.93	0.00	0.00	0.00	
10400.00	90.00	267.77	7067.00	2445.51	-1720.96	-2077.86	0.00	0.00	0.00	
10500.00	90.00	267.77	7067.00	2543.17	-1724.86	-2177.78	0.00	0.00	0.00	
10600.00	90.00	267.77	7067.00	2640.83	-1728.75	-2277.71	0.00	0.00	0.00	
10700.00	90.00	267.77	7067.00	2738.49	-1732.65	-2377.63	0.00	0.00	0.00	
10800.00	90.00	267.77	7067.00	2836.15	-1736.54	-2477.56	0.00	0.00	0.00	
10900.00	90.00	267.77	7067.00	2933.82	-1740.44	-2577.48	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	267.77	7067.00	3031.48	-1744.34	-2677.40	0.00	0.00	0.00	
11100.00	90.00	267.77	7067.00	3129.14	-1748.23	-2777.33	0.00	0.00	0.00	
11200.00	90.00	267.77	7067.00	3226.80	-1752.13	-2877.25	0.00	0.00	0.00	
11300.00	90.00	267.77	7067.00	3324.46	-1756.03	-2977.18	0.00	0.00	0.00	
11400.00	90.00	267.77	7067.00	3422.13	-1759.92	-3077.10	0.00	0.00	0.00	
11500.00	90.00	267.77	7067.00	3519.79	-1763.82	-3177.02	0.00	0.00	0.00	
11600.00	90.00	267.77	7067.00	3617.45	-1767.72	-3276.95	0.00	0.00	0.00	
11700.00	90.00	267.77	7067.00	3715.11	-1771.61	-3376.87	0.00	0.00	0.00	
11800.00	90.00	267.77	7067.00	3812.77	-1775.51	-3476.80	0.00	0.00	0.00	
11900.00	90.00	267.77	7067.00	3910.43	-1779.41	-3576.72	0.00	0.00	0.00	
12000.00	90.00	267.77	7067.00	4008.10	-1783.30	-3676.64	0.00	0.00	0.00	
12100.00	90.00	267.77	7067.00	4105.76	-1787.20	-3776.57	0.00	0.00	0.00	
12200.00	90.00	267.77	7067.00	4203.42	-1791.09	-3876.49	0.00	0.00	0.00	
12300.00	90.00	267.77	7067.00	4301.08	-1794.99	-3976.42	0.00	0.00	0.00	
12400.00	90.00	267.77	7067.00	4398.74	-1798.89	-4076.34	0.00	0.00	0.00	
12500.00	90.00	267.77	7067.00	4496.41	-1802.78	-4176.26	0.00	0.00	0.00	
12600.00	90.00	267.77	7067.00	4594.07	-1806.68	-4276.19	0.00	0.00	0.00	
12700.00	90.00	267.77	7067.00	4691.73	-1810.58	-4376.11	0.00	0.00	0.00	
12800.00	90.00	267.77	7067.00	4789.39	-1814.47	-4476.04	0.00	0.00	0.00	
12900.00	90.00	267.77	7067.00	4887.05	-1818.37	-4575.96	0.00	0.00	0.00	
13000.00	90.00	267.77	7067.00	4984.72	-1822.27	-4675.88	0.00	0.00	0.00	
13100.00	90.00	267.77	7067.00	5082.38	-1826.16	-4775.81	0.00	0.00	0.00	
13200.00	90.00	267.77	7067.00	5180.04	-1830.06	-4875.73	0.00	0.00	0.00	
13300.00	90.00	267.77	7067.00	5277.70	-1833.96	-4975.66	0.00	0.00	0.00	
13400.00	90.00	267.77	7067.00	5375.36	-1837.85	-5075.58	0.00	0.00	0.00	
13500.00	90.00	267.77	7067.00	5473.02	-1841.75	-5175.50	0.00	0.00	0.00	
13600.00	90.00	267.77	7067.00	5570.69	-1845.65	-5275.43	0.00	0.00	0.00	
13700.00	90.00	267.77	7067.00	5668.35	-1849.54	-5375.35	0.00	0.00	0.00	
13800.00	90.00	267.77	7067.00	5766.01	-1853.44	-5475.28	0.00	0.00	0.00	
13900.00	90.00	267.77	7067.00	5863.67	-1857.33	-5575.20	0.00	0.00	0.00	
14000.00	90.00	267.77	7067.00	5961.33	-1861.23	-5675.13	0.00	0.00	0.00	
14100.00	90.00	267.77	7067.00	6059.00	-1865.13	-5775.05	0.00	0.00	0.00	
14200.00	90.00	267.77	7067.00	6156.66	-1869.02	-5874.97	0.00	0.00	0.00	
14300.00	90.00	267.77	7067.00	6254.32	-1872.92	-5974.90	0.00	0.00	0.00	
14400.00	90.00	267.77	7067.00	6351.98	-1876.82	-6074.82	0.00	0.00	0.00	
14500.00	90.00	267.77	7067.00	6449.64	-1880.71	-6174.75	0.00	0.00	0.00	
14600.00	90.00	267.77	7067.00	6547.31	-1884.61	-6274.67	0.00	0.00	0.00	
14700.00	90.00	267.77	7067.00	6644.97	-1888.51	-6374.59	0.00	0.00	0.00	
14800.00	90.00	267.77	7067.00	6742.63	-1892.40	-6474.52	0.00	0.00	0.00	
14900.00	90.00	267.77	7067.00	6840.29	-1896.30	-6574.44	0.00	0.00	0.00	
15000.00	90.00	267.77	7067.00	6937.95	-1900.20	-6674.37	0.00	0.00	0.00	
15100.00	90.00	267.77	7067.00	7035.61	-1904.09	-6774.29	0.00	0.00	0.00	
15200.00	90.00	267.77	7067.00	7133.28	-1907.99	-6874.21	0.00	0.00	0.00	
15300.00	90.00	267.77	7067.00	7230.94	-1911.88	-6974.14	0.00	0.00	0.00	
15400.00	90.00	267.77	7067.00	7328.60	-1915.78	-7074.06	0.00	0.00	0.00	
15500.00	90.00	267.77	7067.00	7426.26	-1919.68	-7173.99	0.00	0.00	0.00	
15600.00	90.00	267.77	7067.00	7523.92	-1923.57	-7273.91	0.00	0.00	0.00	
15700.00	90.00	267.77	7067.00	7621.59	-1927.47	-7373.83	0.00	0.00	0.00	
15701.00	90.00	267.77	7067.00	7622.56	-1927.51	-7374.83	0.00	0.00	0.00	PBHL 13C-30-M



Synergy Resources

Field Name: *CO N - NAD 83*
Site Name: *Goetzel 25-29 Pad*
Well Name: *Goetzel 13C-30-M*

5 December 2016

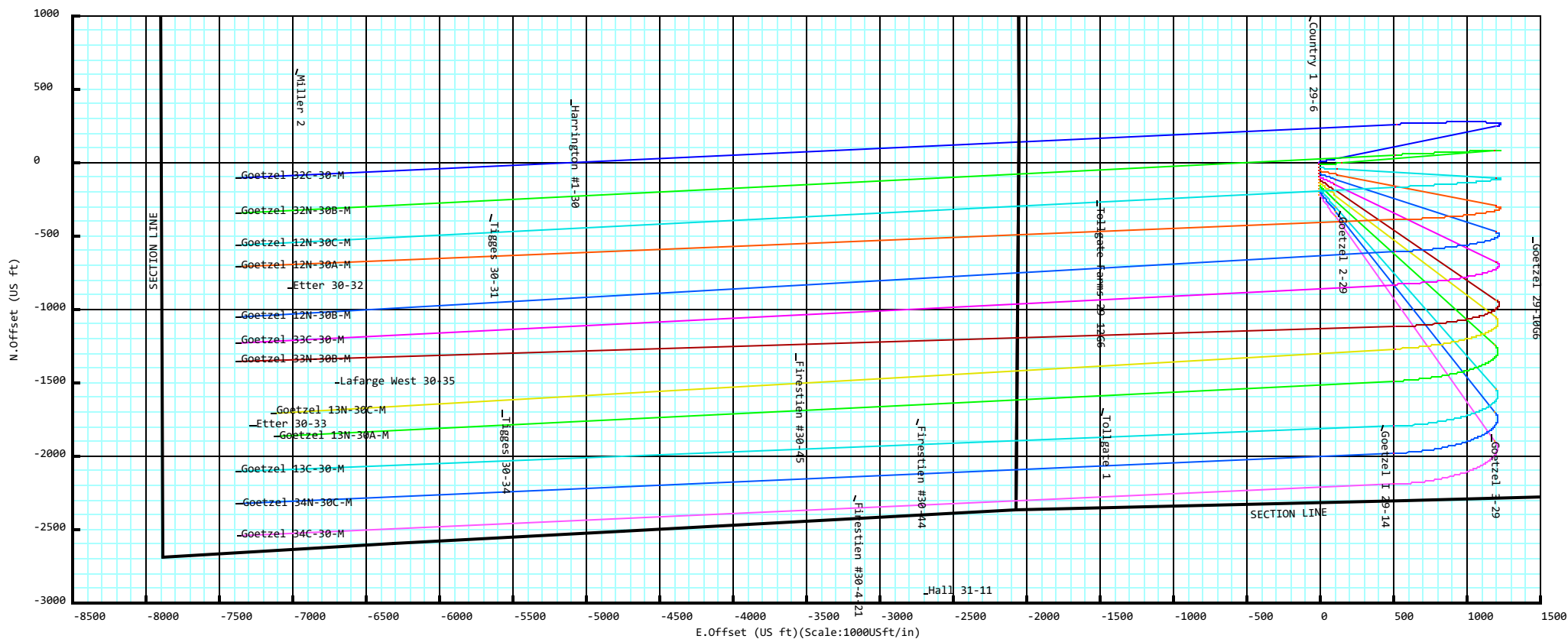




Goetzel Pad
Weld County, CO
Precision 562

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	



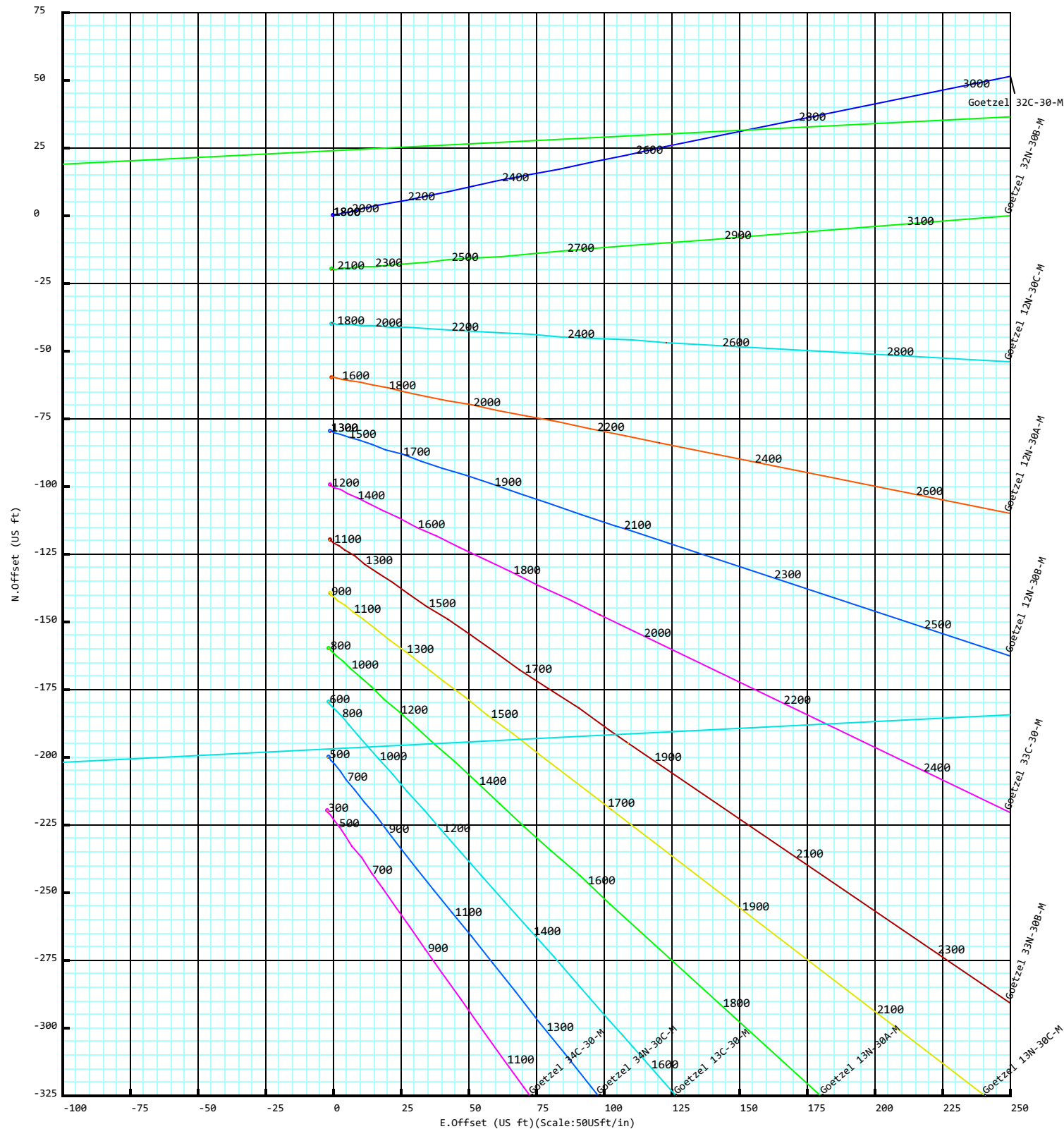


Goetzl Pad Weld County, CO Precision 562

- 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 13C-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 13C-30-M	Position (Relative to Site Centre)			
	+N/-S: -179.97 US ft	Northing: 1410303.08 US ft		Latitude: 40.457598000
	+E/-W: -1.39 US ft	Easting: 3193637.85 US ft		Longitude: -104.804139000
	Slot TVD Reference: Ground Elevation			
	Elevation above MSL: 4732.00 US ft			
Comment:				
Well: Goetzel 13C-30-M	Type:Main well		UWI:	Plan:Working Plan
	File Number:	Comment:		
	Closure Distance:7622.56US ft		Closure Azimuth:255.35°	
	Vertical Section: Position of Origin (Relative to Slot centre)			
	+N/-S: 0.00 US ft		+E/-W: 0.00 US ft	Az: 255.35°
	Magnetic Parameters:			
	Model: bggm2016	Field Strength: 52524.5nT	Declination: 8.46°	Dip: 66.93°

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°
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Collision / Uncertainty Analysis

Primary Well	Start MD (USFt)	End MD (USFt)	Collision Risk Interval	No. of Std. Deviations in Error Computation
Goetzel 13C-30-M (p)	0.00	15701.00	100.00	2

Secondary Well Names:

Goetzel 2-29 (s)
 Lafarge West 30-35 (s)
 Firestien #30-45 (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)
 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)
 Goetzel 33N-30B-M (p)

Secondary Well Names:

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

Anti-Collision Report Terminology

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

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

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

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

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

AC Filter Info: No filter has been applied.

Default Survey Tool: MWD

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

5D Anti-Collision Report

Anti-Collision Summary (TVD relative to Drill Floor)

SF							
Secondary Well Name	Pri MD (US ft)	Sec MD (US ft)	TVD (US ft)	CC (US ft)	ES (US ft)	SF	Risk
Goetzel 2-29 (s)	1717.77	1662.89	1690.89	1.93	-52.11	0.04	SF(Hi); CC (Hi)
Goetzel I 29-14 (s)	7890.43	7036.00	7067.00	9.32	-233.04	0.04	SF(Hi); CC (Hi)
Firestien #30-44 (s)	11050.00	7034.00	7067.00	167.64	-147.11	0.53	SF(Hi)
Goetzel 34N-30C-M (p)	15701.00	15619.22	7067.00	250.31	-170.97	0.59	SF(Hi)
Tollgate 1 (s)	9792.97	7028.00	7067.00	191.02	-90.27	0.68	SF(Hi)
Etter 30-33 (s)	15596.88	7042.00	7067.00	310.82	-129.42	0.71	SF(Hi)
Goetzel 3-29 (s)	7100.59	6723.92	6754.92	183.42	-40.63	0.82	SF(Hi)
Tiggis 30-34 (s)	13883.98	7034.00	7067.00	341.25	-51.21	0.87	SF(Hi)
Goetzel 13N-30C-M (p)	15439.65	15286.68	7067.00	398.42	-37.83	0.91	SF(Hi)
Goetzel 34C-30-M (p)	15701.00	15750.13	7067.00	443.02	-20.14	0.96	SF(Hi)
Firestien #30-4-21 (s)	11504.88	7037.00	7067.00	330.25	3.10	1.01	SF(Med)
Goetzel 13N-30A-M (p)	15438.28	15136.85	7067.00	352.27	52.78	1.18	SF(Med)
Lafarge West 30-35 (s)	15017.19	7042.00	7067.00	572.95	148.87	1.35	SF(Med)
Goetzel 33N-30B-M (p)	15681.25	15456.59	7067.00	765.18	311.27	1.69	SF(Lo)
Goetzel 33C-30-M (p)	15673.63	15600.60	7067.00	877.18	414.33	1.90	SF(Lo)
Firestien #30-45 (s)	11882.81	7042.00	7067.00	646.80	309.28	1.92	SF(Lo)
Goetzel 12N-30B-M (p)	15673.83	15440.87	7067.00	1053.45	594.13	2.29	SF(Lo)
Goetzel 12N-30A-M (p)	15688.28	15322.07	7067.00	1414.68	958.05	3.10	
Goetzel 12N-30C-M (p)	15690.82	15501.26	7067.00	1541.07	1077.83	3.33	
Goetzel 32N-30B-M (p)	15701.00	15473.86	7067.00	1765.68	1302.29	3.81	
Goetzel 32C-30-M (p)	15701.00	15644.54	7067.00	2001.03	1537.31	4.32	

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 2-29 (s)	1717.77	1662.89	1690.89	1.93	-52.11	0.04	SF(Hi); CC (Hi)
Goetzel I 29-14 (s)	7889.84	7036.00	7067.00	9.31	-231.94	0.04	SF(Hi); CC (Hi)
Goetzel 13N-30A-M (p)	50.00	50.00	50.00	20.04	19.19	23.75	CC (Med)
Goetzel 34N-30C-M (p)	0.00	0.00	0.00	20.04	19.31	27.33	CC (Med)
Goetzel 13N-30C-M (p)	50.00	50.00	50.00	40.07	39.23	47.50	CC (Lo)
Goetzel 34C-30-M (p)	0.00	0.00	0.00	40.08	39.34	54.65	CC (Lo)
Goetzel 33N-30B-M (p)	50.00	50.00	50.00	60.11	59.27	71.25	CC (Lo)
Goetzel 33C-30-M (p)	0.00	0.00	0.00	80.15	79.41	109.30	
Goetzel 12N-30B-M (p)	50.00	50.00	50.00	100.18	99.34	118.75	
Goetzel 12N-30A-M (p)	50.00	50.00	50.00	120.22	119.38	142.51	
Goetzel 12N-30C-M (p)	50.00	50.00	50.00	139.90	139.05	165.83	
Goetzel 32N-30B-M (p)	50.00	50.00	50.00	159.93	159.09	189.58	
Firestien #30-44 (s)	11048.83	7034.00	7067.00	167.64	-147.09	0.53	SF(Hi)
Goetzel 32C-30-M (p)	50.00	50.00	50.00	179.97	179.13	213.33	
Goetzel 3-29 (s)	7113.28	6734.10	6765.10	183.22	-40.14	0.82	SF(Hi)
Tollgate 1 (s)	9790.23	7028.00	7067.00	191.00	-90.20	0.68	SF(Hi)
Etter 30-33 (s)	15594.34	7042.00	7067.00	310.81	-129.39	0.71	SF(Hi)
Firestien #30-4-21 (s)	11500.39	7037.00	7067.00	330.22	3.16	1.01	SF(Med)
Tigges 30-34 (s)	13880.27	7034.00	7067.00	341.23	-51.16	0.87	SF(Hi)
Lafarge West 30-35 (s)	15007.62	7042.00	7067.00	572.86	148.97	1.35	SF(Med)
Firestien #30-45 (s)	11866.02	7042.00	7067.00	646.58	309.40	1.92	SF(Lo)

Primary Well: Goetzel 13C-30-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Nearest Well	Risk
0.00	0.00	0.00	0.00	0.00	0.00	359.55	20.04	19.30	27.32	Goetzel 13N-30A-M (p)	CC (Med)
100.00	0.00	0.00	100.00	0.11	0.11	359.55	20.04	19.08	21.00	Goetzel 13N-30A-M (p)	CC (Med)
200.00	0.00	0.00	200.00	0.34	0.34	359.55	20.04	18.63	14.28	Goetzel 13N-30A-M (p)	CC (Med)
300.00	0.00	0.00	300.00	0.56	0.56	359.55	20.04	18.18	10.81	Goetzel 13N-30A-M (p)	CC (Med)
400.00	0.00	0.00	400.00	0.79	0.79	359.55	20.04	17.73	8.70	Goetzel 13N-30A-M (p)	CC (Med)
500.00	0.00	0.00	500.00	1.01	1.01	359.55	20.04	17.28	7.28	Goetzel 13N-30A-M (p)	CC (Med)
600.00	0.00	0.00	600.00	1.24	1.24	359.55	20.04	16.83	6.26	Goetzel 13N-30A-M (p)	CC (Med)
700.00	2.00	138.18	699.98	1.44	1.44	218.29	21.38	17.75	5.90	Goetzel 13N-30A-M (p)	CC (Med)
800.00	4.00	138.18	799.84	1.63	1.62	211.66	25.35	21.32	6.29	Goetzel 13N-30A-M (p)	CC (Med)
900.00	6.00	138.18	899.45	1.84	1.82	207.06	30.10	25.70	6.83	Goetzel 13N-30A-M (p)	CC (Med)
1000.00	8.00	138.18	998.70	2.09	2.02	0.61	184.01	154.44	6.22	Goetzel 2-29 (s)	

5D Anti-Collision Report

Primary Well: Goetzel 13C-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
1000.00	8.00	138.18	998.70	2.09	2.02	204.32	35.16	30.33	7.29	Goetzel 13N-30A-M (p)	CC (Lo)
1100.00	10.00	138.18	1097.47	2.38	2.23	0.67	168.37	135.57	5.13	Goetzel 2- 29 (s)	
1100.00	10.00	138.18	1097.47	2.38	2.23	202.79	40.41	35.16	7.69	Goetzel 13N-30A-M (p)	CC (Lo)
1200.00	12.00	138.18	1195.62	2.72	2.45	0.76	149.29	113.27	4.14	Goetzel 2- 29 (s)	
1200.00	12.00	138.18	1195.62	2.72	2.45	202.08	45.81	40.10	8.03	Goetzel 13N-30A-M (p)	CC (Lo)
1300.00	14.00	138.18	1293.06	3.12	2.68	0.90	126.80	87.59	3.23	Goetzel 2- 29 (s)	
1300.00	14.00	138.18	1293.06	3.12	2.68	201.94	51.33	45.13	8.28	Goetzel 13N-30A-M (p)	CC (Lo)
1400.00	16.00	138.18	1389.64	3.59	2.92	1.14	100.92	58.53	2.38	Goetzel 2- 29 (s)	SF(Lo)
1400.00	16.00	138.18	1389.64	3.59	2.92	202.21	56.97	50.25	8.47	Goetzel 13N-30A-M (p)	CC (Lo)
1500.00	18.00	138.18	1485.27	4.12	3.16	1.62	71.70	26.12	1.57	Goetzel 2- 29 (s)	SF(Lo)
1500.00	18.00	138.18	1485.27	4.12	3.16	202.78	62.73	55.42	8.58	Goetzel 13N-30A-M (p)	CC (Lo)
1600.00	19.47	138.18	1579.86	4.73	3.43	2.98	39.28	-9.43	0.81	Goetzel 2- 29 (s)	SF(Hi); CC (Lo)
1700.00	19.47	138.18	1674.14	5.37	3.71	19.11	6.21	-45.71	0.12	Goetzel 2- 29 (s)	SF(Hi); CC (Hi)
1800.00	19.47	138.18	1768.42	6.02	4.00	175.74	27.50	-27.35	0.50	Goetzel 2- 29 (s)	SF(Hi); CC (Med)
1900.00	19.47	138.18	1862.70	6.69	4.30	178.07	60.80	2.80	1.05	Goetzel 2- 29 (s)	SF(Med); CC (Lo)
2000.00	19.47	138.18	1956.98	7.36	4.60	178.76	94.12	32.94	1.54	Goetzel 2- 29 (s)	SF(Lo)
2000.00	19.47	138.18	1956.98	7.36	4.60	23.26	79.16	68.06	7.13	Goetzel 34N-30C-M (p)	
2100.00	19.47	138.18	2051.26	8.04	4.90	179.08	127.44	63.11	1.98	Goetzel 2- 29 (s)	SF(Lo)
2100.00	19.47	138.18	2051.26	8.04	4.90	23.92	81.38	69.46	6.83	Goetzel 34N-30C-M (p)	
2200.00	19.47	138.18	2145.54	8.72	5.21	179.27	160.77	93.28	2.38	Goetzel 2- 29 (s)	SF(Lo)
2200.00	19.47	138.18	2145.54	8.72	5.21	24.54	83.60	70.85	6.56	Goetzel 34N-30C-M (p)	
2300.00	19.47	138.18	2239.83	9.41	5.51	179.40	194.10	123.45	2.75	Goetzel 2- 29 (s)	
2300.00	19.47	138.18	2239.83	9.41	5.51	25.13	85.83	72.20	6.30	Goetzel 34N-30C-M (p)	
2400.00	19.47	138.18	2334.11	10.10	5.82	179.49	227.44	153.63	3.08	Goetzel 2- 29 (s)	
2400.00	19.47	138.18	2334.11	10.10	5.82	25.69	88.07	73.55	6.07	Goetzel 34N-30C-M (p)	
2500.00	19.47	138.18	2428.39	10.79	6.14	179.55	260.77	183.80	3.39	Goetzel 2- 29 (s)	
2500.00	19.47	138.18	2428.39	10.79	6.14	26.22	90.32	74.89	5.86	Goetzel 34N-30C-M (p)	
2600.00	19.47	138.18	2522.67	11.49	6.45	179.60	294.10	213.98	3.67	Goetzel 2- 29 (s)	
2600.00	19.47	138.18	2522.67	11.49	6.45	26.73	92.57	76.24	5.67	Goetzel 34N-30C-M (p)	
2700.00	19.47	138.18	2616.95	12.18	6.76	179.64	327.43	244.15	3.93	Goetzel 2- 29 (s)	

5D Anti-Collision Report

Primary Well: Goetzel 13C-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	19.47	138.18	2616.95	12.18	6.76	27.21	94.84	77.58	5.50	Goetzel 34N-30C-M (p)	
2800.00	19.47	138.18	2711.23	12.88	7.08	179.68	360.76	274.32	4.17	Goetzel 2- 29 (s)	
2800.00	19.47	138.18	2711.23	12.88	7.08	27.67	97.11	78.93	5.34	Goetzel 34N-30C-M (p)	
2900.00	19.47	138.18	2805.51	13.58	7.40	179.70	394.09	304.49	4.40	Goetzel 2- 29 (s)	
2900.00	19.47	138.18	2805.51	13.58	7.40	28.11	99.38	80.27	5.20	Goetzel 34N-30C-M (p)	
3000.00	19.47	138.18	2899.79	14.28	7.71	179.73	427.43	334.66	4.61	Goetzel 2- 29 (s)	
3000.00	19.47	138.18	2899.79	14.28	7.71	28.53	101.66	81.62	5.07	Goetzel 34N-30C-M (p)	
3100.00	19.47	138.18	2994.08	14.98	8.03	225.38	113.86	89.29	4.64	Goetzel 13N-30A-M (p)	
3100.00	19.47	138.18	2994.08	14.98	8.03	28.93	103.95	82.96	4.95	Goetzel 34N-30C-M (p)	
3200.00	19.47	138.18	3088.36	15.68	8.35	226.24	117.17	91.30	4.53	Goetzel 13N-30A-M (p)	
3200.00	19.47	138.18	3088.36	15.68	8.35	29.31	106.24	84.28	4.84	Goetzel 34N-30C-M (p)	
3300.00	19.47	138.18	3182.64	16.38	8.67	227.06	120.50	93.33	4.44	Goetzel 13N-30A-M (p)	
3300.00	19.47	138.18	3182.64	16.38	8.67	29.68	108.53	85.61	4.73	Goetzel 34N-30C-M (p)	
3400.00	19.47	138.18	3276.92	17.08	8.99	227.83	123.85	95.38	4.35	Goetzel 13N-30A-M (p)	
3400.00	19.47	138.18	3276.92	17.08	8.99	30.03	110.83	86.93	4.64	Goetzel 34N-30C-M (p)	
3500.00	19.47	138.18	3371.20	17.78	9.31	228.56	127.23	97.45	4.27	Goetzel 13N-30A-M (p)	
3500.00	19.47	138.18	3371.20	17.78	9.31	30.37	113.14	88.25	4.55	Goetzel 34N-30C-M (p)	
3600.00	19.47	138.18	3465.48	18.49	9.63	229.25	130.63	99.52	4.20	Goetzel 13N-30A-M (p)	
3600.00	19.47	138.18	3465.48	18.49	9.63	30.70	115.44	89.55	4.46	Goetzel 34N-30C-M (p)	
3700.00	19.47	138.18	3559.76	19.19	9.95	229.90	134.04	101.59	4.13	Goetzel 13N-30A-M (p)	
3700.00	19.47	138.18	3559.76	19.19	9.95	31.01	117.75	90.85	4.38	Goetzel 34N-30C-M (p)	
3800.00	19.47	138.18	3654.04	19.89	10.27	230.53	137.48	103.68	4.07	Goetzel 13N-30A-M (p)	
3800.00	19.47	138.18	3654.04	19.89	10.27	31.31	120.07	92.16	4.30	Goetzel 34N-30C-M (p)	
3900.00	19.47	138.18	3748.33	20.60	10.60	231.12	140.92	105.78	4.01	Goetzel 13N-30A-M (p)	
3900.00	19.47	138.18	3748.33	20.60	10.60	31.59	122.39	93.46	4.23	Goetzel 34N-30C-M (p)	
4000.00	19.47	138.18	3842.61	21.30	10.92	231.69	144.38	107.89	3.96	Goetzel 13N-30A-M (p)	

5D Anti-Collision Report

Primary Well: Goetzel 13C-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
4000.00	19.47	138.18	3842.61	21.30	10.92	31.87	124.71	94.77	4.16	Goetzel 34N-30C-M (p)	
4100.00	19.47	138.18	3936.89	22.00	11.24	232.23	147.86	110.02	3.91	Goetzel 13N-30A-M (p)	
4100.00	19.47	138.18	3936.89	22.00	11.24	32.14	127.03	96.07	4.10	Goetzel 34N-30C-M (p)	
4200.00	19.47	138.18	4031.17	22.71	11.56	232.74	151.35	112.16	3.86	Goetzel 13N-30A-M (p)	
4200.00	19.47	138.18	4031.17	22.71	11.56	32.40	129.36	97.37	4.04	Goetzel 34N-30C-M (p)	
4300.00	19.47	138.18	4125.45	23.41	11.89	233.23	154.85	114.31	3.82	Goetzel 13N-30A-M (p)	
4300.00	19.47	138.18	4125.45	23.41	11.89	32.65	131.68	98.68	3.99	Goetzel 34N-30C-M (p)	
4400.00	19.47	138.18	4219.73	24.12	12.21	233.70	158.35	116.47	3.78	Goetzel 13N-30A-M (p)	
4400.00	19.47	138.18	4219.73	24.12	12.21	32.89	134.02	99.98	3.94	Goetzel 34N-30C-M (p)	
4500.00	19.47	138.18	4314.01	24.82	12.53	234.15	161.87	118.64	3.74	Goetzel 13N-30A-M (p)	
4500.00	19.47	138.18	4314.01	24.82	12.53	33.12	136.35	101.28	3.89	Goetzel 34N-30C-M (p)	
4600.00	19.47	138.18	4408.30	25.53	12.86	234.58	165.40	120.82	3.71	Goetzel 13N-30A-M (p)	
4600.00	19.47	138.18	4408.30	25.53	12.86	33.34	138.68	102.59	3.84	Goetzel 34N-30C-M (p)	
4700.00	19.47	138.18	4502.58	26.23	13.18	234.99	168.94	123.01	3.68	Goetzel 13N-30A-M (p)	
4700.00	19.47	138.18	4502.58	26.23	13.18	33.56	141.02	103.89	3.80	Goetzel 34N-30C-M (p)	
4800.00	19.47	138.18	4596.86	26.94	13.50	235.38	172.49	125.20	3.65	Goetzel 13N-30A-M (p)	
4800.00	19.47	138.18	4596.86	26.94	13.50	33.77	143.36	105.19	3.76	Goetzel 34N-30C-M (p)	
4900.00	19.47	138.18	4691.14	27.65	13.83	235.76	176.04	127.41	3.62	Goetzel 13N-30A-M (p)	
4900.00	19.47	138.18	4691.14	27.65	13.83	33.97	145.70	106.50	3.72	Goetzel 34N-30C-M (p)	
5000.00	19.47	138.18	4785.42	28.35	14.15	236.12	179.61	129.62	3.59	Goetzel 13N-30A-M (p)	
5000.00	19.47	138.18	4785.42	28.35	14.15	34.17	148.04	107.80	3.68	Goetzel 34N-30C-M (p)	
5100.00	19.47	138.18	4879.70	29.06	14.47	236.47	183.17	131.84	3.57	Goetzel 13N-30A-M (p)	
5100.00	19.47	138.18	4879.70	29.06	14.47	34.36	150.39	109.11	3.64	Goetzel 34N-30C-M (p)	
5200.00	19.47	138.18	4973.98	29.76	14.80	236.81	186.75	134.06	3.54	Goetzel 13N-30A-M (p)	
5200.00	19.47	138.18	4973.98	29.76	14.80	34.54	152.73	110.41	3.61	Goetzel 34N-30C-M (p)	
5300.00	19.47	138.18	5068.26	30.47	15.12	237.13	190.33	136.28	3.52		

5D Anti-Collision Report

Primary Well: Goetzel 13C-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
5300.00	19.47	138.18	5068.26	30.47	15.12	34.72	155.08	111.72	3.58	Goetzel 13N-30A-M (p)	
5400.00	19.47	138.18	5162.55	31.18	15.45	237.44	193.92	138.50	3.50	Goetzel 34N-30C-M (p)	
5400.00	19.47	138.18	5162.55	31.18	15.45	34.89	157.43	113.02	3.54	Goetzel 13N-30A-M (p)	
5500.00	19.47	138.18	5256.83	31.88	15.77	237.74	197.51	140.73	3.48	Goetzel 34N-30C-M (p)	
5500.00	19.47	138.18	5256.83	31.88	15.77	35.06	159.78	114.33	3.52	Goetzel 13N-30A-M (p)	
5600.00	19.47	138.18	5351.11	32.59	16.10	24.94	579.51	400.91	3.24	Goetzel 34N-30C-M (p)	
5600.00	19.47	138.18	5351.11	32.59	16.10	35.23	162.13	115.63	3.49	Goetzel 3- 29 (s)	
5700.00	19.47	138.18	5445.39	33.29	16.42	26.39	549.15	367.12	3.02	Goetzel 34N-30C-M (p)	
5700.00	19.47	138.18	5445.39	33.29	16.42	35.39	164.49	116.94	3.46	Goetzel 3- 29 (s)	
5800.00	19.47	138.18	5539.67	34.00	16.74	28.01	519.15	333.73	2.80	Goetzel 34N-30C-M (p)	
5800.00	19.47	138.18	5539.67	34.00	16.74	35.54	166.84	118.24	3.43	Goetzel 3- 29 (s)	
5900.00	19.47	138.18	5633.95	34.71	17.07	29.81	489.58	300.03	2.58	Goetzel 34N-30C-M (p)	
5900.00	19.47	138.18	5633.95	34.71	17.07	35.69	169.20	119.55	3.41	Goetzel 3- 29 (s)	
6000.00	19.47	138.18	5728.23	35.41	17.39	31.84	460.53	266.80	2.38	Goetzel 34N-30C-M (p)	SF(Lo)
6000.00	19.47	138.18	5728.23	35.41	17.39	35.84	171.55	120.85	3.38	Goetzel 3- 29 (s)	
6100.00	19.47	138.18	5822.51	36.12	17.72	34.13	432.09	234.31	2.18	Goetzel 34N-30C-M (p)	SF(Lo)
6100.00	19.47	138.18	5822.51	36.12	17.72	35.98	173.91	122.14	3.36	Goetzel 3- 29 (s)	
6200.00	19.47	138.18	5916.80	36.83	18.04	36.73	404.40	202.75	2.01	Goetzel 34N-30C-M (p)	SF(Lo)
6200.00	19.47	138.18	5916.80	36.83	18.04	36.12	176.27	123.43	3.34	Goetzel 3- 29 (s)	
6300.00	19.47	138.18	6011.08	37.53	18.37	39.69	377.63	171.66	1.83	Goetzel 34N-30C-M (p)	SF(Lo)
6300.00	19.47	138.18	6011.08	37.53	18.37	36.25	178.63	124.73	3.31	Goetzel 3- 29 (s)	
6400.00	19.47	138.18	6105.36	38.24	18.69	43.07	351.98	141.09	1.67	Goetzel 34N-30C-M (p)	SF(Lo)
6400.00	19.47	138.18	6105.36	38.24	18.69	36.38	180.99	126.02	3.29	Goetzel 3- 29 (s)	
6500.00	19.47	138.18	6199.64	38.95	19.02	46.93	327.71	112.51	1.52	Goetzel 34N-30C-M (p)	SF(Lo)
6500.00	19.47	138.18	6199.64	38.95	19.02	36.59	183.35	127.27	3.27	Goetzel 3- 29 (s)	
6600.00	16.74	153.03	6294.46	39.46	19.32	35.45	304.47	84.41	1.38	Goetzel 34N-30C-M (p)	SF(Med)
6600.00	16.74	153.03	6294.46	39.46	19.32	24.72	185.83	127.45	3.18	Goetzel 3- 29 (s)	
6700.00	15.38	181.83	6390.71	39.29	19.47	7.69	279.48	55.41	1.25	Goetzel 34N-30C-M (p)	SF(Med)
										Goetzel 3- 29 (s)	

5D Anti-Collision Report

Primary Well: Goetzel 13C-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
6700.00	15.38	181.83	6390.71	39.29	19.47	359.46	188.71	128.38	3.13	Goetzel 34N-30C-M (p)	
6800.00	17.82	208.79	6486.67	38.55	19.43	338.74	251.89	25.15	1.11	Goetzel 3- 29 (s)	SF(Med)
6800.00	17.82	208.79	6486.67	38.55	19.43	335.88	191.89	130.28	3.11	Goetzel 34N-30C-M (p)	
6900.00	22.88	226.80	6580.49	37.31	19.21	314.84	222.92	-4.59	0.98	Goetzel 3- 29 (s)	SF(Hi)
6900.00	22.88	226.80	6580.49	37.31	19.21	321.06	195.27	133.04	3.14	Goetzel 34N-30C-M (p)	
7000.00	29.23	237.97	6670.33	35.67	18.75	293.39	197.04	-29.36	0.87	Goetzel 3- 29 (s)	SF(Hi)
7100.00	36.19	245.31	6754.45	33.78	18.02	272.63	183.44	-40.63	0.82	Goetzel 3- 29 (s)	SF(Hi)
7200.00	43.47	250.50	6831.21	31.88	16.96	254.27	193.79	-30.41	0.86	Goetzel 3- 29 (s)	SF(Hi)
7300.00	50.93	254.46	6899.12	30.20	15.51	240.45	232.74	2.94	1.01	Goetzel 3- 29 (s)	SF(Med)
7300.00	50.93	254.46	6899.12	30.20	15.51	304.16	208.31	149.03	3.51	Goetzel 34N-30C-M (p)	
7400.00	58.50	257.64	6956.85	28.99	13.70	231.50	294.99	59.10	1.25	Goetzel 3- 29 (s)	SF(Med)
7400.00	58.50	257.64	6956.85	28.99	13.70	303.18	210.89	152.84	3.63	Goetzel 34N-30C-M (p)	
7500.00	66.13	260.35	7003.28	28.36	11.82	13.95	380.40	135.69	1.55	Goetzel I 29-14 (s)	SF(Lo)
7500.00	66.13	260.35	7003.28	28.36	11.82	302.51	213.00	156.01	3.74	Goetzel 34N-30C-M (p)	
7600.00	73.81	262.75	7037.50	28.31	10.43	16.80	286.91	41.14	1.17	Goetzel I 29-14 (s)	SF(Med)
7600.00	73.81	262.75	7037.50	28.31	10.43	302.02	214.60	158.39	3.82	Goetzel 34N-30C-M (p)	
7700.00	81.51	264.97	7058.86	28.76	10.27	27.98	189.61	-56.60	0.77	Goetzel I 29-14 (s)	SF(Hi)
7800.00	89.22	267.10	7066.93	29.62	11.66	82.79	90.39	-154.91	0.37	Goetzel I 29-14 (s)	SF(Hi)
7900.00	90.00	267.32	7067.00	30.59	12.32	90.00	13.73	-235.42	0.06	Goetzel I 29-14 (s)	SF(Hi); CC (Hi)
8000.00	90.00	267.32	7067.00	31.75	12.86	90.00	110.48	-137.04	0.45	Goetzel I 29-14 (s)	SF(Hi)
8100.00	90.00	267.32	7067.00	33.10	13.43	90.00	210.29	-36.28	0.85	Goetzel I 29-14 (s)	SF(Hi)
8200.00	90.00	267.32	7067.00	34.62	14.02	90.00	310.23	63.74	1.26	Goetzel I 29-14 (s)	SF(Med)
8200.00	90.00	267.32	7067.00	34.62	14.02	300.95	217.77	151.88	3.30	Goetzel 34N-30C-M (p)	
8300.00	90.00	267.32	7067.00	36.29	14.64	90.00	410.19	163.64	1.66	Goetzel I 29-14 (s)	SF(Lo)
8300.00	90.00	267.32	7067.00	36.29	14.64	300.88	218.20	149.28	3.17	Goetzel 34N-30C-M (p)	
8400.00	90.00	267.32	7067.00	38.09	15.28	90.00	510.17	263.65	2.07	Goetzel I 29-14 (s)	SF(Lo)
8400.00	90.00	267.32	7067.00	38.09	15.28	300.82	218.62	146.51	3.03	Goetzel 34N-30C-M (p)	
8500.00	90.00	267.32	7067.00	40.00	15.92	90.00	610.16	363.54	2.47	Goetzel I 29-14 (s)	SF(Lo)
8500.00	90.00	267.32	7067.00	40.00	15.92	300.75	219.05	143.50	2.90	Goetzel 34N-30C-M (p)	
8600.00	90.00	267.32	7067.00	42.01	16.58	300.69	219.47	140.47	2.78	Goetzel 34N-30C-M (p)	
8700.00	90.00	267.32	7067.00	44.11	17.25	300.62	219.90	137.27	2.66		

5D Anti-Collision Report

Primary Well: Goetzel 13C-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
8800.00	90.00	267.32	7067.00	46.28	17.92	300.55	220.32	133.80	2.55	Goetzel 34N-30C-M (p)	
8900.00	90.00	267.32	7067.00	48.51	18.60	300.49	220.75	130.23	2.44	Goetzel 34N-30C-M (p)	
9000.00	90.00	267.32	7067.00	50.81	19.28	300.42	221.18	126.63	2.34	Goetzel 34N-30C-M (p)	SF(Lo)
9100.00	90.00	267.32	7067.00	53.15	19.96	300.36	221.60	122.96	2.25	Goetzel 34N-30C-M (p)	SF(Lo)
9200.00	90.00	267.32	7067.00	55.53	20.65	300.29	222.03	119.21	2.16	Goetzel 34N-30C-M (p)	SF(Lo)
9300.00	90.00	267.32	7067.00	57.95	21.34	300.23	222.46	115.40	2.08	Goetzel 34N-30C-M (p)	SF(Lo)
9400.00	90.00	267.32	7067.00	60.40	22.03	90.00	434.52	180.33	1.71	Tollgate 1 (s)	SF(Lo)
9400.00	90.00	267.32	7067.00	60.40	22.03	300.17	222.88	111.51	2.00	Goetzel 34N-30C-M (p)	SF(Lo)
9500.00	90.00	267.32	7067.00	62.89	22.72	90.00	347.49	88.49	1.34	Tollgate 1 (s)	SF(Med)
9500.00	90.00	267.32	7067.00	62.89	22.72	300.10	223.31	107.57	1.93	Goetzel 34N-30C-M (p)	SF(Lo)
9600.00	90.00	267.32	7067.00	65.40	23.42	90.00	269.62	3.37	1.01	Tollgate 1 (s)	SF(Med)
9600.00	90.00	267.32	7067.00	65.40	23.42	300.04	223.74	103.58	1.86	Goetzel 34N-30C-M (p)	SF(Lo)
9700.00	90.00	267.32	7067.00	67.93	24.12	90.00	211.27	-65.08	0.76	Tollgate 1 (s)	SF(Hi)
9800.00	90.00	267.32	7067.00	70.48	24.82	90.00	191.25	-89.99	0.68	Tollgate 1 (s)	SF(Hi)
9900.00	90.00	267.32	7067.00	73.05	25.52	90.00	220.27	-53.81	0.80	Tollgate 1 (s)	SF(Hi)
10000.00	90.00	267.32	7067.00	75.64	26.22	90.00	283.66	20.02	1.08	Tollgate 1 (s)	SF(Med)
10000.00	90.00	267.32	7067.00	75.64	26.22	299.79	225.45	87.23	1.63	Goetzel 34N-30C-M (p)	SF(Lo)
10100.00	90.00	267.32	7067.00	78.24	26.92	90.00	363.87	106.61	1.41	Tollgate 1 (s)	SF(Med)
10100.00	90.00	267.32	7067.00	78.24	26.92	299.73	225.88	83.06	1.58	Goetzel 34N-30C-M (p)	SF(Lo)
10200.00	90.00	267.32	7067.00	80.86	27.63	299.66	226.31	78.87	1.53	Goetzel 34N-30C-M (p)	SF(Lo)
10300.00	90.00	267.32	7067.00	83.48	28.33	299.60	226.74	74.66	1.49	Goetzel 34N-30C-M (p)	SF(Med)
10400.00	90.00	267.32	7067.00	86.12	29.04	299.54	227.17	70.44	1.45	Goetzel 34N-30C-M (p)	SF(Med)
10500.00	90.00	267.32	7067.00	88.77	29.75	299.48	227.60	66.21	1.41	Goetzel 34N-30C-M (p)	SF(Med)
10600.00	90.00	267.32	7067.00	91.43	30.46	299.42	228.03	61.97	1.37	Goetzel 34N-30C-M (p)	SF(Med)
10700.00	90.00	267.32	7067.00	94.10	31.17	299.36	228.46	57.73	1.34	Goetzel 34N-30C-M (p)	SF(Med)
10800.00	90.00	267.32	7067.00	96.77	31.88	90.00	300.11	21.63	1.08	Firestien #30-44 (s)	SF(Med)
10800.00	90.00	267.32	7067.00	96.77	31.88	299.30	228.89	53.50	1.31	Goetzel 34N-30C-M (p)	SF(Med)

5D Anti-Collision Report

Primary Well: Goetzel 13C-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
10900.00	90.00	267.32	7067.00	99.45	32.59	90.00	224.24	-69.53	0.76	Firestien #30-44 (s)	SF(Hi)
11000.00	90.00	267.32	7067.00	102.14	33.30	90.00	174.63	-137.48	0.56	Firestien #30-44 (s)	SF(Hi)
11100.00	90.00	267.32	7067.00	104.83	34.02	90.00	175.25	-133.68	0.57	Firestien #30-44 (s)	SF(Hi)
11200.00	90.00	267.32	7067.00	107.53	34.73	90.00	225.67	-63.33	0.78	Firestien #30-44 (s)	SF(Hi)
11300.00	90.00	267.32	7067.00	110.24	35.44	90.00	301.90	29.54	1.11	Firestien #30-44 (s)	SF(Med)
11300.00	90.00	267.32	7067.00	110.24	35.44	299.00	231.05	32.02	1.16	Goetzel 34N-30C-M (p)	SF(Med)
11400.00	90.00	267.32	7067.00	112.94	36.16	270.00	345.13	28.76	1.09	Firestien #30-4-21 (s)	SF(Med)
11400.00	90.00	267.32	7067.00	112.94	36.16	298.94	231.49	27.60	1.14	Goetzel 34N-30C-M (p)	SF(Med)
11500.00	90.00	267.32	7067.00	115.66	36.88	270.00	330.22	3.17	1.01	Firestien #30-4-21 (s)	SF(Med)
11500.00	90.00	267.32	7067.00	115.66	36.88	298.88	231.92	23.18	1.11	Goetzel 34N-30C-M (p)	SF(Med)
11600.00	90.00	267.32	7067.00	118.37	37.59	270.00	344.92	17.13	1.05	Firestien #30-4-21 (s)	SF(Med)
11600.00	90.00	267.32	7067.00	118.37	37.59	298.82	232.35	18.78	1.09	Goetzel 34N-30C-M (p)	SF(Med)
11700.00	90.00	267.32	7067.00	121.10	38.31	298.76	232.78	14.32	1.07	Goetzel 34N-30C-M (p)	SF(Med)
11800.00	90.00	267.32	7067.00	123.82	39.03	298.70	233.22	9.83	1.04	Goetzel 34N-30C-M (p)	SF(Med)
11900.00	90.00	267.32	7067.00	126.55	39.74	298.64	233.65	5.35	1.02	Goetzel 34N-30C-M (p)	SF(Med)
12000.00	90.00	267.32	7067.00	129.28	40.46	298.59	234.09	0.83	1.00	Goetzel 34N-30C-M (p)	SF(Med)
12100.00	90.00	267.32	7067.00	132.01	41.18	298.53	234.52	-3.77	0.98	Goetzel 34N-30C-M (p)	SF(Hi)
12200.00	90.00	267.32	7067.00	134.75	41.90	298.47	234.95	-8.36	0.97	Goetzel 34N-30C-M (p)	SF(Hi)
12300.00	90.00	267.32	7067.00	137.49	42.62	298.41	235.39	-12.94	0.95	Goetzel 34N-30C-M (p)	SF(Hi)
12400.00	90.00	267.32	7067.00	140.23	43.34	298.36	235.82	-17.53	0.93	Goetzel 34N-30C-M (p)	SF(Hi)
12500.00	90.00	267.32	7067.00	142.98	44.06	298.30	236.26	-22.12	0.91	Goetzel 34N-30C-M (p)	SF(Hi)
12600.00	90.00	267.32	7067.00	145.72	44.78	298.24	236.69	-26.70	0.90	Goetzel 34N-30C-M (p)	SF(Hi)
12700.00	90.00	267.32	7067.00	148.47	45.50	298.18	237.13	-31.29	0.88	Goetzel 34N-30C-M (p)	SF(Hi)
12800.00	90.00	267.32	7067.00	151.22	46.23	298.13	237.57	-35.89	0.87	Goetzel 34N-30C-M (p)	SF(Hi)
12900.00	90.00	267.32	7067.00	153.98	46.95	298.07	238.00	-40.48	0.85	Goetzel 34N-30C-M (p)	SF(Hi)
13000.00	90.00	267.32	7067.00	156.73	47.67	298.02	238.44	-45.08	0.84	Goetzel 34N-30C-M (p)	SF(Hi)
13100.00	90.00	267.32	7067.00	159.48	48.39	297.96	238.88	-49.68	0.83	Goetzel 34N-30C-M (p)	SF(Hi)

5D Anti-Collision Report

Primary Well: Goetzel 13C-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
13200.00	90.00	267.32	7067.00	162.24	49.12	297.91	239.31	-54.29	0.82	Goetzel 34N-30C-M (p)	SF(Hi)
13300.00	90.00	267.32	7067.00	165.00	49.84	297.85	239.75	-58.90	0.80	Goetzel 34N-30C-M (p)	SF(Hi)
13400.00	90.00	267.32	7067.00	167.76	50.56	297.79	240.19	-63.52	0.79	Goetzel 34N-30C-M (p)	SF(Hi)
13500.00	90.00	267.32	7067.00	170.52	51.29	297.74	240.62	-68.14	0.78	Goetzel 34N-30C-M (p)	SF(Hi)
13600.00	90.00	267.32	7067.00	173.29	52.01	297.69	241.06	-72.76	0.77	Goetzel 34N-30C-M (p)	SF(Hi)
13700.00	90.00	267.32	7067.00	176.05	52.74	297.63	241.50	-77.39	0.76	Goetzel 34N-30C-M (p)	SF(Hi)
13800.00	90.00	267.32	7067.00	178.81	53.46	297.58	241.94	-82.03	0.75	Goetzel 34N-30C-M (p)	SF(Hi)
13900.00	90.00	267.32	7067.00	181.58	54.18	297.52	242.38	-86.67	0.74	Goetzel 34N-30C-M (p)	SF(Hi)
14000.00	90.00	267.32	7067.00	184.35	54.91	297.47	242.81	-91.31	0.73	Goetzel 34N-30C-M (p)	SF(Hi)
14100.00	90.00	267.32	7067.00	187.12	55.63	297.41	243.25	-95.96	0.72	Goetzel 34N-30C-M (p)	SF(Hi)
14200.00	90.00	267.32	7067.00	189.89	56.36	297.36	243.69	-100.61	0.71	Goetzel 34N-30C-M (p)	SF(Hi)
14300.00	90.00	267.32	7067.00	192.66	57.09	297.31	244.13	-105.27	0.70	Goetzel 34N-30C-M (p)	SF(Hi)
14400.00	90.00	267.32	7067.00	195.43	57.81	297.25	244.57	-109.93	0.69	Goetzel 34N-30C-M (p)	SF(Hi)
14500.00	90.00	267.32	7067.00	198.20	58.54	297.20	245.01	-114.60	0.68	Goetzel 34N-30C-M (p)	SF(Hi)
14600.00	90.00	267.32	7067.00	200.97	59.26	297.15	245.45	-119.27	0.67	Goetzel 34N-30C-M (p)	SF(Hi)
14700.00	90.00	267.32	7067.00	203.74	59.99	297.10	245.89	-123.95	0.66	Goetzel 34N-30C-M (p)	SF(Hi)
14800.00	90.00	267.32	7067.00	206.52	60.72	297.04	246.33	-128.63	0.66	Goetzel 34N-30C-M (p)	SF(Hi)
14900.00	90.00	267.32	7067.00	209.29	61.44	296.99	246.77	-133.31	0.65	Goetzel 34N-30C-M (p)	SF(Hi)
15000.00	90.00	267.32	7067.00	212.07	62.17	296.94	247.21	-138.00	0.64	Goetzel 34N-30C-M (p)	SF(Hi)
15100.00	90.00	267.32	7067.00	214.85	62.90	296.89	247.65	-142.69	0.63	Goetzel 34N-30C-M (p)	SF(Hi)
15200.00	90.00	267.32	7067.00	217.62	63.62	296.84	248.09	-147.38	0.63	Goetzel 34N-30C-M (p)	SF(Hi)
15300.00	90.00	267.32	7067.00	220.40	64.35	296.79	248.53	-152.08	0.62	Goetzel 34N-30C-M (p)	SF(Hi)
15400.00	90.00	267.32	7067.00	223.18	65.08	296.73	248.98	-156.79	0.61	Goetzel 34N-30C-M (p)	SF(Hi)
15500.00	90.00	267.32	7067.00	225.96	65.80	296.68	249.42	-161.50	0.61	Goetzel 34N-30C-M (p)	SF(Hi)
15600.00	90.00	267.32	7067.00	228.74	66.53	296.63	249.86	-166.21	0.60	Goetzel 34N-30C-M (p)	SF(Hi)
15700.00	90.00	267.32	7067.00	231.52	67.26	296.58	250.30	-170.92	0.59		SF(Hi)

5D Anti-Collision Report

Primary Well: Goetzel 13C-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
15701.00	90.00	267.32	7067.00	231.54	67.27	296.58	250.31	-170.97	0.59	Goetzel 34N-30C-M (p) Goetzel 34N-30C-M (p)	SF(Hi)
Secondary Well: Goetzel 2-29 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
0.00	0.00	0.00	0.00	28.00	0.00	0.00	138.71	213.73	212.96	277.66	
100.00	72.00	0.00	0.00	100.00	1.09	1.09	138.71	211.89	209.92	107.44	
200.00	172.00	0.00	0.00	200.00	2.69	2.69	138.71	211.89	208.10	55.84	
300.00	272.00	0.00	0.00	300.00	5.73	5.73	138.71	211.89	204.84	30.03	
400.00	372.00	0.00	0.00	400.00	8.77	8.77	138.71	211.89	201.58	20.54	
500.00	472.00	0.00	0.00	500.00	11.80	11.80	138.71	211.89	198.49	15.81	
600.00	572.00	0.00	0.00	600.00	14.84	14.84	138.71	211.89	195.23	12.71	
700.00	671.98	0.00	0.00	699.98	17.88	17.88	0.53	210.15	190.25	10.56	
800.00	771.84	0.00	0.00	799.84	20.91	20.91	0.54	204.91	181.79	8.86	
900.00	871.45	0.00	0.00	899.45	23.93	23.93	0.57	196.20	169.85	7.44	
1000.00	970.70	0.00	0.00	998.70	26.95	26.95	0.61	184.01	154.44	6.22	
1100.00	1069.47	0.00	0.00	1097.47	29.95	29.95	0.67	168.37	135.57	5.13	
1200.00	1167.62	0.00	0.00	1195.62	32.93	32.93	0.76	149.29	113.27	4.14	
1300.00	1265.06	0.00	0.00	1293.06	35.89	35.89	0.90	126.80	87.59	3.23	
1400.00	1361.64	0.00	0.00	1389.64	38.82	38.82	1.14	100.92	58.53	2.38	SF(Lo)
1500.00	1457.27	0.00	0.00	1485.27	41.72	41.72	1.62	71.70	26.12	1.57	SF(Lo)
1600.00	1551.86	0.00	0.00	1579.86	44.60	44.60	2.98	39.28	-9.43	0.81	SF(Hi); CC (Lo)
1700.00	1646.14	0.00	0.00	1674.14	47.46	47.46	19.11	6.21	-45.71	0.12	SF(Hi); CC (Hi)
1800.00	1740.42	0.00	0.00	1768.42	50.32	50.32	175.74	27.50	-27.35	0.50	SF(Hi); CC (Med)
1900.00	1834.70	0.00	0.00	1862.70	53.19	53.19	178.07	60.80	2.80	1.05	SF(Med); CC (Lo)
2000.00	1928.98	0.00	0.00	1956.98	56.05	56.05	178.76	94.12	32.94	1.54	SF(Lo)
2100.00	2023.26	0.00	0.00	2051.26	58.91	58.91	179.08	127.44	63.11	1.98	SF(Lo)
2200.00	2117.54	0.00	0.00	2145.54	61.78	61.78	179.27	160.77	93.28	2.38	SF(Lo)
2300.00	2211.83	0.00	0.00	2239.83	64.64	64.64	179.40	194.10	123.45	2.75	
2400.00	2306.11	0.00	0.00	2334.11	67.50	67.50	179.49	227.44	153.63	3.08	
2500.00	2400.39	0.00	0.00	2428.39	70.37	70.37	179.55	260.77	183.80	3.39	
2600.00	2494.67	0.00	0.00	2522.67	73.23	73.23	179.60	294.10	213.98	3.67	
2700.00	2588.95	0.00	0.00	2616.95	76.09	76.09	179.64	327.43	244.15	3.93	
2800.00	2683.23	0.00	0.00	2711.23	78.96	78.96	179.68	360.76	274.32	4.17	
2900.00	2777.51	0.00	0.00	2805.51	81.82	81.82	179.70	394.09	304.49	4.40	
3000.00	2871.79	0.00	0.00	2899.79	84.68	84.68	179.73	427.43	334.66	4.61	
3100.00	2966.08	0.00	0.00	2994.08	87.55	87.55	179.75	460.76	364.83	4.80	
3200.00	3060.36	0.00	0.00	3088.36	90.41	90.41	179.76	494.09	395.00	4.99	
3300.00	3154.64	0.00	0.00	3182.64	93.27	93.27	179.78	527.42	425.17	5.16	
3400.00	3248.92	0.00	0.00	3276.92	96.13	96.13	179.79	560.75	455.34	5.32	
3500.00	3343.20	0.00	0.00	3371.20	99.00	99.00	179.80	594.09	485.51	5.47	
3600.00	3437.48	0.00	0.00	3465.48	101.86	101.86	179.81	627.42	515.67	5.61	
3700.00	3531.76	0.00	0.00	3559.76	104.72	104.72	179.82	660.75	545.84	5.75	
3800.00	3626.04	0.00	0.00	3654.04	107.59	107.59	179.83	694.08	576.01	5.88	
3900.00	3720.33	0.00	0.00	3748.33	110.45	110.45	179.84	727.41	606.17	6.00	
4000.00	3814.61	0.00	0.00	3842.61	113.31	113.31	179.85	760.75	636.34	6.11	
4100.00	3908.89	0.00	0.00	3936.89	116.18	116.18	179.85	794.08	666.50	6.22	
4200.00	4003.17	0.00	0.00	4031.17	119.04	119.04	179.86	827.41	696.67	6.33	
4300.00	4097.45	0.00	0.00	4125.45	121.90	121.90	179.86	860.74	726.83	6.43	
4400.00	4191.73	0.00	0.00	4219.73	124.77	124.77	179.87	894.07	757.00	6.52	
4500.00	4286.01	0.00	0.00	4314.01	127.63	127.63	179.87	927.41	787.16	6.61	
4600.00	4380.30	0.00	0.00	4408.30	130.49	130.49	179.88	960.74	817.33	6.70	

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
4700.00	4474.58	0.00	0.00	4502.58	133.36	133.36	179.88	994.07	847.49	6.78	
4800.00	4568.86	0.00	0.00	4596.86	136.22	136.22	179.89	1027.40	877.66	6.86	
4900.00	4663.14	0.00	0.00	4691.14	139.08	139.08	179.89	1060.74	907.82	6.94	
5000.00	4757.42	0.00	0.00	4785.42	141.95	141.95	179.89	1094.07	937.99	7.01	
5100.00	4851.70	0.00	0.00	4879.70	144.81	144.81	179.90	1127.40	968.15	7.08	
5200.00	4945.98	0.00	0.00	4973.98	147.67	147.67	179.90	1160.73	998.31	7.15	
5300.00	5040.26	0.00	0.00	5068.26	150.54	150.54	179.90	1194.06	1028.48	7.21	
5400.00	5134.55	0.00	0.00	5162.55	153.40	153.40	179.90	1227.40	1058.64	7.27	
5500.00	5228.83	0.00	0.00	5256.83	156.26	156.26	179.91	1260.73	1088.80	7.33	
5600.00	5323.11	0.00	0.00	5351.11	159.13	159.13	179.91	1294.06	1118.96	7.39	
5700.00	5417.39	0.00	0.00	5445.39	161.99	161.99	179.91	1327.39	1149.13	7.45	
5800.00	5511.67	0.00	0.00	5539.67	164.85	164.85	179.91	1360.73	1179.29	7.50	
5900.00	5605.95	0.00	0.00	5633.95	167.71	167.71	179.92	1394.06	1209.45	7.55	
6000.00	5700.23	0.00	0.00	5728.23	170.58	170.58	179.92	1427.39	1239.61	7.60	
6100.00	5794.51	0.00	0.00	5822.51	173.44	173.44	179.92	1460.72	1269.77	7.65	
6200.00	5888.80	0.00	0.00	5916.80	176.30	176.30	179.92	1494.05	1299.94	7.70	
6300.00	5983.08	0.00	0.00	6011.08	179.17	179.17	179.92	1527.39	1330.10	7.74	
6400.00	6077.36	0.00	0.00	6105.36	182.03	182.03	179.92	1560.72	1360.26	7.79	
6500.00	6171.64	0.00	0.00	6199.64	184.89	184.89	179.93	1594.05	1390.42	7.83	
6600.00	6266.46	0.00	0.00	6294.46	187.77	187.77	164.55	1625.57	1418.76	7.86	
6700.00	6362.71	0.00	0.00	6390.71	190.70	190.70	135.78	1649.18	1439.18	7.85	
6800.00	6458.67	0.00	0.00	6486.67	193.61	193.61	109.76	1664.24	1451.10	7.81	
6900.00	6552.49	0.00	0.00	6580.49	196.46	196.46	93.52	1670.90	1454.76	7.73	
7000.00	6642.33	0.00	0.00	6670.33	199.19	199.19	84.88	1669.64	1450.77	7.63	
7100.00	6726.45	0.00	0.00	6754.45	201.74	201.74	80.79	1661.24	1440.03	7.51	
7200.00	6803.21	0.00	0.00	6831.21	204.07	204.07	79.45	1646.77	1422.89	7.36	
7300.00	6871.12	0.00	0.00	6899.12	206.14	206.14	79.84	1627.48	1400.67	7.18	
7400.00	6928.85	0.00	0.00	6956.85	207.89	207.89	81.32	1604.79	1375.58	7.00	
7500.00	6975.28	0.00	0.00	7003.28	209.30	209.30	83.41	1580.17	1349.08	6.84	
7600.00	7009.50	0.00	0.00	7037.50	210.34	210.34	85.72	1555.06	1321.18	6.65	
7700.00	7030.86	0.00	0.00	7058.86	210.99	210.99	87.93	1530.78	1294.61	6.48	
7800.00	7038.93	0.00	0.00	7066.93	211.23	211.23	89.83	1508.40	1270.86	6.35	
7900.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	1490.12	1250.00	6.21	
8000.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	1478.36	1236.35	6.11	
8100.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	1473.32	1229.50	6.04	
8200.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	1475.06	1228.68	5.99	
8300.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	1483.54	1235.70	5.99	
8400.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	1498.67	1248.63	5.99	
8500.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	1520.24	1268.30	6.03	
8600.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	1547.98	1295.08	6.12	
8700.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	1581.57	1326.70	6.21	
8800.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	1620.64	1364.41	6.33	
8900.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	1664.81	1408.20	6.49	
9000.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	1713.68	1455.57	6.64	
9100.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	1766.86	1507.76	6.82	
9200.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	1823.99	1564.55	7.03	
9300.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	1884.69	1624.86	7.25	
9400.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	1948.63	1687.95	7.48	
9500.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	2015.51	1754.41	7.72	
9600.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	2085.04	1823.89	7.98	
9700.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	2156.96	1896.07	8.27	
9800.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	2231.05	1970.02	8.55	
9900.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	2307.10	2045.68	8.83	
10000.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	2384.92	2123.19	9.11	
10100.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	2464.33	2202.47	9.41	
10200.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	2545.20	2283.37	9.72	
10300.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	2627.39	2365.72	10.04	
10400.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	2710.77	2449.39	10.37	

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
10500.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	2795.25	2533.94	10.70	
10600.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	2880.71	2619.25	11.02	
10700.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	2967.09	2705.61	11.35	
10800.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	3054.30	2792.68	11.67	
10900.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	3142.27	2880.62	12.01	
11000.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	3230.94	2969.37	12.35	
11100.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	3320.25	3058.79	12.70	
11200.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	3410.16	3148.92	13.05	
11300.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	3500.62	3239.41	13.40	
11400.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	3591.58	3330.49	13.76	
11500.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	3683.01	3422.13	14.12	
11600.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	3774.87	3514.26	14.48	
11700.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	3867.14	3606.85	14.86	
11800.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	3959.78	3699.54	15.22	
11900.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	4052.78	3792.56	15.57	
12000.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	4146.09	3885.82	15.93	
12100.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	4239.72	3979.34	16.28	
12200.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	4333.63	4073.19	16.64	
12300.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	4427.80	4167.33	17.00	
12400.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	4522.23	4261.75	17.36	
12500.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	4616.89	4356.43	17.73	
12600.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	4711.77	4451.34	18.09	
12700.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	4806.86	4546.47	18.46	
12800.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	4902.14	4641.81	18.83	
12900.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	4997.61	4737.34	19.20	
13000.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	5093.25	4833.05	19.57	
13100.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	5189.06	4928.94	19.95	
13200.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	5285.02	5024.98	20.32	
13300.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	5381.13	5121.18	20.70	
13400.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	5477.38	5217.52	21.08	
13500.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	5573.76	5313.99	21.46	
13600.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	5670.27	5410.59	21.84	
13700.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	5766.89	5507.32	22.22	
13800.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	5863.63	5604.15	22.60	
13900.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	5960.47	5701.10	22.98	
14000.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	6057.42	5798.15	23.36	
14100.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	6154.47	5895.29	23.75	
14200.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	6251.61	5992.53	24.13	
14300.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	6348.84	6089.86	24.52	
14400.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	6446.15	6187.28	24.90	
14500.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	6543.54	6284.77	25.29	
14600.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	6641.01	6382.34	25.67	
14700.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	6738.56	6479.98	26.06	
14800.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	6836.17	6577.70	26.45	
14900.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	6933.86	6675.44	26.83	
15000.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	7031.61	6773.18	27.21	
15100.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	7129.42	6870.97	27.59	
15200.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	7227.29	6968.83	27.96	
15300.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	7325.22	7066.75	28.34	
15400.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	7423.20	7164.73	28.72	
15500.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	7521.24	7262.75	29.10	
15600.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	7619.33	7360.84	29.48	
15700.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	7717.47	7458.97	29.85	
15701.00	7039.00	0.00	0.00	7067.00	211.23	211.23	90.00	7718.45	7459.95	29.86	

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
0.00	0.00	0.00	0.00	25.00	0.00	0.00	258.35	6834.57	6833.84	9386.79	
100.00	75.00	0.00	0.00	100.00	1.14	1.14	258.35	6834.53	6832.55	3459.13	
200.00	175.00	0.00	0.00	200.00	2.78	2.78	258.35	6834.53	6830.68	1778.15	
300.00	275.00	0.00	0.00	300.00	5.82	5.82	258.35	6834.53	6827.42	962.08	
400.00	375.00	0.00	0.00	400.00	8.86	8.86	258.35	6834.53	6824.16	659.44	
500.00	475.00	0.00	0.00	500.00	11.89	11.89	258.35	6834.53	6821.07	508.04	
600.00	575.00	0.00	0.00	600.00	14.93	14.93	258.35	6834.53	6817.81	408.94	
700.00	674.98	0.00	0.00	699.98	17.97	17.97	120.16	6835.40	6815.46	342.70	
800.00	774.84	0.00	0.00	799.84	21.00	21.00	120.15	6838.04	6814.87	295.16	
900.00	874.45	0.00	0.00	899.45	24.03	24.03	120.14	6842.43	6816.03	259.20	
1000.00	973.70	0.00	0.00	998.70	27.04	27.04	120.12	6848.58	6818.92	230.92	
1100.00	1072.47	0.00	0.00	1097.47	30.04	30.04	120.09	6856.50	6823.57	208.22	
1200.00	1170.62	0.00	0.00	1195.62	33.02	33.02	120.06	6866.19	6829.97	189.57	
1300.00	1268.06	0.00	0.00	1293.06	35.98	35.98	120.02	6877.68	6838.13	173.91	
1400.00	1364.64	0.00	0.00	1389.64	38.91	38.91	119.97	6890.95	6848.07	160.67	
1500.00	1460.27	0.00	0.00	1485.27	41.82	41.82	119.91	6906.04	6859.79	149.32	
1600.00	1554.86	0.00	0.00	1579.86	44.69	44.69	119.92	6922.88	6873.22	139.40	
1700.00	1649.14	0.00	0.00	1674.14	47.55	47.55	120.15	6940.31	6887.22	130.74	
1800.00	1743.42	0.00	0.00	1768.42	50.41	50.41	120.37	6957.85	6901.33	123.11	
1900.00	1837.70	0.00	0.00	1862.70	53.28	53.28	120.60	6975.50	6915.55	116.35	
2000.00	1931.98	0.00	0.00	1956.98	56.14	56.14	120.82	6993.27	6929.88	110.32	
2100.00	2026.26	0.00	0.00	2051.26	59.00	59.00	121.05	7011.15	6944.32	104.90	
2200.00	2120.54	0.00	0.00	2145.54	61.87	61.87	121.27	7029.15	6958.87	100.02	
2300.00	2214.83	0.00	0.00	2239.83	64.73	64.73	121.49	7047.25	6973.53	95.59	
2400.00	2309.11	0.00	0.00	2334.11	67.59	67.59	121.71	7065.47	6988.30	91.56	
2500.00	2403.39	0.00	0.00	2428.39	70.46	70.46	121.93	7083.80	7003.19	87.88	
2600.00	2497.67	0.00	0.00	2522.67	73.32	73.32	122.15	7102.23	7018.19	84.50	
2700.00	2591.95	0.00	0.00	2616.95	76.18	76.18	122.37	7120.78	7033.30	81.40	
2800.00	2686.23	0.00	0.00	2711.23	79.05	79.05	122.59	7139.43	7048.51	78.53	
2900.00	2780.51	0.00	0.00	2805.51	81.91	81.91	122.80	7158.19	7063.84	75.87	
3000.00	2874.79	0.00	0.00	2899.79	84.77	84.77	123.02	7177.06	7079.28	73.40	
3100.00	2969.08	0.00	0.00	2994.08	87.64	87.64	123.23	7196.02	7094.82	71.11	
3200.00	3063.36	0.00	0.00	3088.36	90.50	90.50	123.45	7215.10	7110.48	68.96	
3300.00	3157.64	0.00	0.00	3182.64	93.36	93.36	123.66	7234.28	7126.24	66.96	
3400.00	3251.92	0.00	0.00	3276.92	96.23	96.23	123.87	7253.55	7142.10	65.08	
3500.00	3346.20	0.00	0.00	3371.20	99.09	99.09	124.08	7272.94	7158.08	63.32	
3600.00	3440.48	0.00	0.00	3465.48	101.95	101.95	124.29	7292.42	7174.16	61.66	
3700.00	3534.76	0.00	0.00	3559.76	104.82	104.82	124.49	7312.00	7190.34	60.10	
3800.00	3629.04	0.00	0.00	3654.04	107.68	107.68	124.70	7331.68	7206.63	58.63	
3900.00	3723.33	0.00	0.00	3748.33	110.54	110.54	124.91	7351.46	7223.02	57.24	
4000.00	3817.61	0.00	0.00	3842.61	113.41	113.41	125.11	7371.34	7239.51	55.92	
4100.00	3911.89	0.00	0.00	3936.89	116.27	116.27	125.31	7391.31	7256.07	54.65	
4200.00	4006.17	0.00	0.00	4031.17	119.13	119.13	125.52	7411.38	7272.69	53.44	
4300.00	4100.45	0.00	0.00	4125.45	121.99	121.99	125.72	7431.55	7289.41	52.28	
4400.00	4194.73	0.00	0.00	4219.73	124.86	124.86	125.92	7451.81	7306.22	51.19	
4500.00	4289.01	0.00	0.00	4314.01	127.72	127.72	126.12	7472.16	7323.14	50.14	
4600.00	4383.30	0.00	0.00	4408.30	130.58	130.58	126.31	7492.61	7340.14	49.14	
4700.00	4477.58	0.00	0.00	4502.58	133.45	133.45	126.51	7513.15	7357.24	48.19	
4800.00	4571.86	0.00	0.00	4596.86	136.31	136.31	126.71	7533.78	7374.44	47.28	
4900.00	4666.14	0.00	0.00	4691.14	139.17	139.17	126.90	7554.50	7391.73	46.41	
5000.00	4760.42	0.00	0.00	4785.42	142.04	142.04	127.10	7575.31	7409.11	45.58	
5100.00	4854.70	0.00	0.00	4879.70	144.90	144.90	127.29	7596.21	7426.58	44.78	
5200.00	4948.98	0.00	0.00	4973.98	147.76	147.76	127.48	7617.20	7444.15	44.02	
5300.00	5043.26	0.00	0.00	5068.26	150.63	150.63	127.68	7638.28	7461.81	43.28	
5400.00	5137.55	0.00	0.00	5162.55	153.49	153.49	127.87	7659.44	7479.55	42.58	
5500.00	5231.83	0.00	0.00	5256.83	156.35	156.35	128.06	7680.69	7497.39	41.90	
5600.00	5326.11	0.00	0.00	5351.11	159.22	159.22	128.24	7702.03	7515.31	41.25	
5700.00	5420.39	0.00	0.00	5445.39	162.08	162.08	128.43	7723.45	7533.33	40.62	

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
5800.00	5514.67	0.00	0.00	5539.67	164.94	164.94	128.62	7744.95	7551.43	40.02	
5900.00	5608.95	0.00	0.00	5633.95	167.81	167.81	128.80	7766.54	7569.62	39.44	
6000.00	5703.23	0.00	0.00	5728.23	170.67	170.67	128.99	7788.21	7587.89	38.88	
6100.00	5797.51	0.00	0.00	5822.51	173.53	173.53	129.17	7809.97	7606.25	38.34	
6200.00	5891.80	0.00	0.00	5916.80	176.40	176.40	129.35	7831.80	7624.70	37.82	
6300.00	5986.08	0.00	0.00	6011.08	179.26	179.26	129.54	7853.72	7643.23	37.31	
6400.00	6080.36	0.00	0.00	6105.36	182.12	182.12	129.72	7875.71	7661.84	36.82	
6500.00	6174.64	0.00	0.00	6199.64	184.99	184.99	129.90	7897.79	7680.54	36.35	
6600.00	6269.46	0.00	0.00	6294.46	187.86	187.86	115.91	7916.89	7696.31	35.89	
6700.00	6365.71	0.00	0.00	6390.71	190.79	190.79	88.35	7923.03	7699.18	35.39	
6800.00	6461.67	0.00	0.00	6486.67	193.70	193.70	62.69	7915.32	7688.26	34.86	
6900.00	6555.49	0.00	0.00	6580.49	196.55	196.55	46.06	7893.94	7663.76	34.30	
7000.00	6645.33	0.00	0.00	6670.33	199.28	199.28	36.37	7859.28	7626.17	33.71	
7100.00	6729.45	0.00	0.00	6754.45	201.83	201.83	30.68	7812.04	7576.18	33.12	
7200.00	6806.21	0.00	0.00	6831.21	204.17	204.17	27.35	7753.10	7514.77	32.53	
7300.00	6874.12	0.00	0.00	6899.12	206.23	206.23	25.59	7683.62	7443.10	31.95	
7400.00	6931.85	0.00	0.00	6956.85	207.98	207.98	25.12	7604.92	7362.54	31.38	
7500.00	6978.28	0.00	0.00	7003.28	209.39	209.39	26.09	7518.52	7274.63	30.83	
7600.00	7012.50	0.00	0.00	7037.50	210.43	210.43	29.40	7426.08	7181.08	30.31	
7700.00	7033.86	0.00	0.00	7058.86	211.08	211.08	38.98	7329.39	7083.69	29.83	
7800.00	7041.93	0.00	0.00	7066.93	211.32	211.32	80.75	7230.30	6984.34	29.40	
7900.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	7130.62	6884.50	28.97	
8000.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	7030.95	6784.71	28.55	
8100.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	6931.29	6685.06	28.15	
8200.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	6831.63	6585.24	27.73	
8300.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	6731.99	6485.51	27.31	
8400.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	6632.36	6385.82	26.90	
8500.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	6532.74	6286.19	26.50	
8600.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	6433.13	6186.49	26.08	
8700.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	6333.53	6086.70	25.66	
8800.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	6233.95	5987.06	25.25	
8900.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	6134.38	5887.32	24.83	
9000.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	6034.82	5787.67	24.42	
9100.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	5935.28	5688.09	24.01	
9200.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	5835.76	5588.41	23.59	
9300.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	5736.25	5488.68	23.17	
9400.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	5636.76	5388.99	22.75	
9500.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	5537.29	5289.33	22.33	
9600.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	5437.83	5189.70	21.91	
9700.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	5338.40	5090.09	21.50	
9800.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	5238.99	4990.52	21.09	
9900.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	5139.60	4890.98	20.67	
10000.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	5040.23	4791.38	20.25	
10100.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	4940.89	4691.79	19.83	
10200.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	4841.58	4592.25	19.42	
10300.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	4742.30	4492.76	19.00	
10400.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	4643.05	4393.24	18.59	
10500.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	4543.83	4293.69	18.17	
10600.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	4444.64	4194.23	17.75	
10700.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	4345.50	4094.85	17.34	
10800.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	4246.39	3995.36	16.92	
10900.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	4147.33	3895.81	16.49	
11000.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	4048.31	3796.20	16.06	
11100.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	3949.34	3696.73	15.63	
11200.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	3850.43	3597.33	15.21	
11300.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	3751.57	3497.86	14.79	
11400.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	3652.77	3398.48	14.36	
11500.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	3554.05	3299.07	13.94	

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
11600.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	3455.39	3199.68	13.51	
11700.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	3356.82	3100.27	13.08	
11800.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	3258.33	3000.94	12.66	
11900.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	3159.93	2901.70	12.24	
12000.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	3061.64	2802.55	11.82	
12100.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	2963.47	2703.33	11.39	
12200.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	2865.42	2604.19	10.97	
12300.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	2767.51	2505.14	10.55	
12400.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	2669.76	2406.20	10.13	
12500.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	2572.18	2307.25	9.71	
12600.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	2474.79	2208.39	9.29	
12700.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	2377.62	2109.63	8.87	
12800.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	2280.69	2010.90	8.45	
12900.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	2184.04	1912.32	8.04	
13000.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	2087.71	1813.94	7.63	
13100.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	1991.73	1715.77	7.22	
13200.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	1896.18	1617.87	6.81	
13300.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	1801.10	1519.73	6.40	
13400.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	1706.59	1421.59	5.99	
13500.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	1612.75	1323.76	5.58	
13600.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	1519.68	1226.38	5.18	
13700.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	1427.56	1129.58	4.79	
13800.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	1336.56	1033.52	4.41	
13900.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	1246.95	938.45	4.04	
14000.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	1159.04	843.33	3.67	
14100.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	1073.25	749.06	3.31	
14200.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	990.12	656.80	2.97	
14300.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	910.40	566.73	2.65	
14400.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	835.06	479.13	2.35	SF(Lo)
14500.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	765.38	397.03	2.08	SF(Lo)
14600.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	703.06	320.49	1.84	SF(Lo)
14700.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	650.21	253.48	1.64	SF(Lo)
14800.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	609.31	199.62	1.49	SF(Med)
14900.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	582.88	163.57	1.39	SF(Med)
15000.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	572.91	149.25	1.35	SF(Med)
15100.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	580.27	158.56	1.38	SF(Med)
15200.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	604.32	190.40	1.46	SF(Med)
15300.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	643.19	240.91	1.60	SF(Lo)
15400.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	694.39	304.27	1.78	SF(Lo)
15500.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	755.42	378.43	2.00	SF(Lo)
15600.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	824.10	459.91	2.26	SF(Lo)
15700.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	898.68	545.88	2.55	
15701.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	899.45	546.75	2.55	
Secondary Well: Firestien #30-45 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
0.00	0.00	0.00	0.00	25.00	0.00	0.00	251.95	3743.26	3742.54	5141.11	
100.00	75.00	0.00	0.00	100.00	1.14	1.14	251.95	3743.18	3741.20	1894.71	
200.00	175.00	0.00	0.00	200.00	2.78	2.78	251.95	3743.18	3739.34	973.99	
300.00	275.00	0.00	0.00	300.00	5.82	5.82	251.95	3743.18	3736.08	526.99	
400.00	375.00	0.00	0.00	400.00	8.86	8.86	251.95	3743.18	3732.82	361.22	
500.00	475.00	0.00	0.00	500.00	11.89	11.89	251.95	3743.18	3729.73	278.29	
600.00	575.00	0.00	0.00	600.00	14.93	14.93	251.95	3743.18	3726.47	224.00	
700.00	674.98	0.00	0.00	699.98	17.97	17.97	113.78	3743.88	3723.94	187.71	
800.00	774.84	0.00	0.00	799.84	21.00	21.00	113.81	3746.00	3722.83	161.71	
900.00	874.45	0.00	0.00	899.45	24.03	24.03	113.87	3749.53	3723.14	142.06	
1000.00	973.70	0.00	0.00	998.70	27.04	27.04	113.94	3754.50	3724.86	126.68	

5D Anti-Collision Report

Secondary Well: Firestien #30-45 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
1100.00	1072.47	0.00	0.00	1097.47	30.04	30.04	114.04	3760.93	3728.01	114.26	
1200.00	1170.62	0.00	0.00	1195.62	33.02	33.02	114.16	3768.84	3732.63	104.08	
1300.00	1268.06	0.00	0.00	1293.06	35.98	35.98	114.29	3778.27	3738.75	95.60	
1400.00	1364.64	0.00	0.00	1389.64	38.91	38.91	114.44	3789.26	3746.38	88.37	
1500.00	1460.27	0.00	0.00	1485.27	41.82	41.82	114.59	3801.85	3755.61	82.23	
1600.00	1554.86	0.00	0.00	1579.86	44.69	44.69	114.83	3816.03	3766.39	76.88	
1700.00	1649.14	0.00	0.00	1674.14	47.55	47.55	115.26	3830.83	3777.79	72.23	
1800.00	1743.42	0.00	0.00	1768.42	50.41	50.41	115.69	3845.86	3789.39	68.10	
1900.00	1837.70	0.00	0.00	1862.70	53.28	53.28	116.11	3861.12	3801.17	64.41	
2000.00	1931.98	0.00	0.00	1956.98	56.14	56.14	116.53	3876.61	3813.18	61.12	
2100.00	2026.26	0.00	0.00	2051.26	59.00	59.00	116.95	3892.32	3825.42	58.18	
2200.00	2120.54	0.00	0.00	2145.54	61.87	61.87	117.37	3908.25	3837.87	55.53	
2300.00	2214.83	0.00	0.00	2239.83	64.73	64.73	117.78	3924.40	3850.54	53.13	
2400.00	2309.11	0.00	0.00	2334.11	67.59	67.59	118.19	3940.77	3863.43	50.95	
2500.00	2403.39	0.00	0.00	2428.39	70.46	70.46	118.60	3957.35	3876.54	48.97	
2600.00	2497.67	0.00	0.00	2522.67	73.32	73.32	119.00	3974.14	3889.86	47.15	
2700.00	2591.95	0.00	0.00	2616.95	76.18	76.18	119.40	3991.14	3903.40	45.49	
2800.00	2686.23	0.00	0.00	2711.23	79.05	79.05	119.80	4008.34	3917.14	43.95	
2900.00	2780.51	0.00	0.00	2805.51	81.91	81.91	120.19	4025.75	3931.10	42.53	
3000.00	2874.79	0.00	0.00	2899.79	84.77	84.77	120.59	4043.35	3945.26	41.22	
3100.00	2969.08	0.00	0.00	2994.08	87.64	87.64	120.97	4061.16	3959.62	40.00	
3200.00	3063.36	0.00	0.00	3088.36	90.50	90.50	121.36	4079.15	3974.19	38.86	
3300.00	3157.64	0.00	0.00	3182.64	93.36	93.36	121.74	4097.34	3988.96	37.80	
3400.00	3251.92	0.00	0.00	3276.92	96.23	96.23	122.12	4115.72	4003.93	36.81	
3500.00	3346.20	0.00	0.00	3371.20	99.09	99.09	122.49	4134.29	4019.09	35.89	
3600.00	3440.48	0.00	0.00	3465.48	101.95	101.95	122.87	4153.04	4034.45	35.02	
3700.00	3534.76	0.00	0.00	3559.76	104.82	104.82	123.24	4171.97	4050.00	34.20	
3800.00	3629.04	0.00	0.00	3654.04	107.68	107.68	123.60	4191.09	4065.73	33.43	
3900.00	3723.33	0.00	0.00	3748.33	110.54	110.54	123.96	4210.38	4081.66	32.71	
4000.00	3817.61	0.00	0.00	3842.61	113.41	113.41	124.32	4229.84	4097.77	32.03	
4100.00	3911.89	0.00	0.00	3936.89	116.27	116.27	124.68	4249.48	4114.06	31.38	
4200.00	4006.17	0.00	0.00	4031.17	119.13	119.13	125.04	4269.28	4130.53	30.77	
4300.00	4100.45	0.00	0.00	4125.45	121.99	121.99	125.39	4289.26	4147.12	30.18	
4400.00	4194.73	0.00	0.00	4219.73	124.86	124.86	125.73	4309.40	4163.81	29.60	
4500.00	4289.01	0.00	0.00	4314.01	127.72	127.72	126.08	4329.70	4180.67	29.05	
4600.00	4383.30	0.00	0.00	4408.30	130.58	130.58	126.42	4350.16	4197.70	28.53	
4700.00	4477.58	0.00	0.00	4502.58	133.45	133.45	126.76	4370.78	4214.89	28.04	
4800.00	4571.86	0.00	0.00	4596.86	136.31	136.31	127.10	4391.56	4232.25	27.57	
4900.00	4666.14	0.00	0.00	4691.14	139.17	139.17	127.43	4412.49	4249.77	27.12	
5000.00	4760.42	0.00	0.00	4785.42	142.04	142.04	127.76	4433.58	4267.45	26.69	
5100.00	4854.70	0.00	0.00	4879.70	144.90	144.90	128.09	4454.81	4285.28	26.28	
5200.00	4948.98	0.00	0.00	4973.98	147.76	147.76	128.41	4476.19	4303.27	25.89	
5300.00	5043.26	0.00	0.00	5068.26	150.63	150.63	128.73	4497.71	4321.41	25.51	
5400.00	5137.55	0.00	0.00	5162.55	153.49	153.49	129.05	4519.38	4339.71	25.15	
5500.00	5231.83	0.00	0.00	5256.83	156.35	156.35	129.37	4541.19	4358.15	24.81	
5600.00	5326.11	0.00	0.00	5351.11	159.22	159.22	129.68	4563.14	4376.74	24.48	
5700.00	5420.39	0.00	0.00	5445.39	162.08	162.08	129.99	4585.23	4395.48	24.16	
5800.00	5514.67	0.00	0.00	5539.67	164.94	164.94	130.29	4607.45	4414.36	23.86	
5900.00	5608.95	0.00	0.00	5633.95	167.81	167.81	130.60	4629.81	4433.38	23.57	
6000.00	5703.23	0.00	0.00	5728.23	170.67	170.67	130.90	4652.29	4452.54	23.29	
6100.00	5797.51	0.00	0.00	5822.51	173.53	173.53	131.20	4674.91	4471.84	23.02	
6200.00	5891.80	0.00	0.00	5916.80	176.40	176.40	131.50	4697.66	4491.28	22.76	
6300.00	5986.08	0.00	0.00	6011.08	179.26	179.26	131.79	4720.52	4510.85	22.51	
6400.00	6080.36	0.00	0.00	6105.36	182.12	182.12	132.08	4743.52	4530.56	22.27	
6500.00	6174.64	0.00	0.00	6199.64	184.99	184.99	132.37	4766.63	4550.39	22.04	
6600.00	6269.46	0.00	0.00	6294.46	187.86	187.86	118.44	4786.84	4567.36	21.81	
6700.00	6365.71	0.00	0.00	6390.71	190.79	190.79	90.97	4794.18	4571.53	21.53	
6800.00	6461.67	0.00	0.00	6486.67	193.70	193.70	65.46	4787.78	4562.03	21.21	

5D Anti-Collision Report

Secondary Well: Firestien #30-45 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
6900.00	6555.49	0.00	0.00	6580.49	196.55	196.55	49.03	4767.79	4539.04	20.84	
7000.00	6645.33	0.00	0.00	6670.33	199.28	199.28	39.64	4734.61	4503.03	20.44	
7100.00	6729.45	0.00	0.00	6754.45	201.83	201.83	34.35	4688.90	4454.70	20.02	
7200.00	6806.21	0.00	0.00	6831.21	204.17	204.17	31.57	4631.53	4394.97	19.58	
7300.00	6874.12	0.00	0.00	6899.12	206.23	206.23	30.58	4563.62	4325.00	19.12	
7400.00	6931.85	0.00	0.00	6956.85	207.98	207.98	31.22	4486.47	4245.97	18.65	
7500.00	6978.28	0.00	0.00	7003.28	209.39	209.39	33.86	4401.57	4159.47	18.18	
7600.00	7012.50	0.00	0.00	7037.50	210.43	210.43	39.81	4310.52	4067.18	17.71	
7700.00	7033.86	0.00	0.00	7058.86	211.08	211.08	53.14	4215.08	3970.83	17.26	
7800.00	7041.93	0.00	0.00	7066.93	211.32	211.32	85.24	4117.06	3872.32	16.82	
7900.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	4018.33	3773.39	16.41	
8000.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	3919.67	3674.61	15.99	
8100.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	3821.07	3575.69	15.57	
8200.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	3722.56	3477.04	15.16	
8300.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	3624.12	3378.35	14.75	
8400.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	3525.77	3279.61	14.32	
8500.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	3427.51	3181.07	13.91	
8600.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	3329.36	3082.61	13.49	
8700.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	3231.32	2984.19	13.08	
8800.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	3133.41	2886.04	12.67	
8900.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	3035.63	2787.74	12.25	
9000.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	2938.00	2689.71	11.83	
9100.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	2840.54	2591.90	11.42	
9200.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	2743.26	2494.00	11.01	
9300.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	2646.18	2396.32	10.59	
9400.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	2549.33	2298.89	10.18	
9500.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	2452.73	2201.73	9.77	
9600.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	2356.42	2104.63	9.36	
9700.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	2260.42	2007.81	8.95	
9800.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	2164.79	1911.36	8.54	
9900.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	2069.57	1814.98	8.13	
10000.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	1974.82	1718.70	7.71	
10100.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	1880.62	1622.74	7.29	
10200.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	1787.04	1527.35	6.88	
10300.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	1694.21	1432.64	6.48	
10400.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	1602.23	1338.58	6.08	
10500.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	1511.27	1245.27	5.68	
10600.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	1421.53	1153.15	5.30	
10700.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	1333.25	1061.67	4.91	
10800.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	1246.74	971.01	4.52	
10900.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	1162.40	882.39	4.15	
11000.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	1080.73	796.53	3.80	
11100.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	1002.39	712.44	3.46	
11200.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	928.22	631.82	3.13	
11300.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	859.30	556.52	2.84	
11400.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	796.99	486.70	2.57	
11500.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	742.97	425.46	2.34	SF(Lo)
11600.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	699.15	374.93	2.16	SF(Lo)
11700.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	667.54	336.27	2.02	SF(Lo)
11800.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	649.94	314.02	1.93	SF(Lo)
11900.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	647.47	309.84	1.92	SF(Lo)
12000.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	660.32	324.03	1.96	SF(Lo)
12100.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	687.63	355.16	2.07	SF(Lo)
12200.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	727.76	400.67	2.22	SF(Lo)
12300.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	778.75	456.87	2.42	SF(Lo)
12400.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	838.60	523.13	2.66	
12500.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	905.57	596.00	2.93	
12600.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	978.19	674.70	3.22	

5D Anti-Collision Report

Secondary Well: Firestien #30-45 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
12700.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	1055.30	756.22	3.53	
12800.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	1135.99	841.64	3.86	
12900.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	1219.54	929.80	4.21	
13000.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	1305.41	1018.86	4.56	
13100.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	1393.16	1109.81	4.92	
13200.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	1482.46	1202.09	5.29	
13300.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	1573.05	1295.39	5.67	
13400.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	1664.72	1389.64	6.05	
13500.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	1757.30	1484.21	6.43	
13600.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	1850.65	1579.16	6.82	
13700.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	1944.67	1674.71	7.20	
13800.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	2039.25	1770.76	7.60	
13900.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	2134.32	1867.24	7.99	
14000.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	2229.83	1963.93	8.39	
14100.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	2325.71	2060.91	8.78	
14200.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	2421.93	2158.18	9.18	
14300.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	2518.44	2255.69	9.58	
14400.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	2615.22	2353.42	9.99	
14500.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	2712.23	2451.34	10.40	
14600.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	2809.44	2549.40	10.80	
14700.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	2906.85	2647.61	11.21	
14800.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	3004.43	2745.95	11.62	
14900.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	3102.16	2844.22	12.03	
15000.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	3200.03	2942.55	12.43	
15100.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	3298.03	3040.89	12.83	
15200.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	3396.15	3139.33	13.22	
15300.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	3494.37	3237.87	13.62	
15400.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	3592.69	3336.49	14.02	
15500.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	3691.10	3435.20	14.42	
15600.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	3789.60	3533.97	14.82	
15700.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	3888.17	3632.81	15.23	
15701.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	3889.15	3633.80	15.23	
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	254.33	5771.53	5770.80	7926.89	
100.00	67.00	0.00	0.00	100.00	1.02	1.02	254.33	5771.43	5769.58	3116.80	
200.00	167.00	0.00	0.00	200.00	2.54	2.54	254.33	5771.43	5767.84	1605.95	
300.00	267.00	0.00	0.00	300.00	5.58	5.58	254.33	5771.43	5764.59	843.02	
400.00	367.00	0.00	0.00	400.00	8.61	8.61	254.33	5771.43	5761.33	571.51	
500.00	467.00	0.00	0.00	500.00	11.65	11.65	254.33	5771.43	5758.25	437.93	
600.00	567.00	0.00	0.00	600.00	14.69	14.69	254.33	5771.43	5755.00	351.25	
700.00	666.98	0.00	0.00	699.98	17.72	17.72	116.14	5772.20	5752.54	293.56	
800.00	766.84	0.00	0.00	799.84	20.76	20.76	116.15	5774.51	5751.64	252.48	
900.00	866.45	0.00	0.00	899.45	23.78	23.78	116.16	5778.36	5752.27	221.43	
1000.00	965.70	0.00	0.00	998.70	26.80	26.80	116.17	5783.77	5754.43	197.15	
1100.00	1064.47	0.00	0.00	1097.47	29.80	29.80	116.18	5790.74	5758.14	177.66	
1200.00	1162.62	0.00	0.00	1195.62	32.78	32.78	116.19	5799.29	5763.40	161.61	
1300.00	1260.06	0.00	0.00	1293.06	35.74	35.74	116.20	5809.43	5770.23	148.22	
1400.00	1356.64	0.00	0.00	1389.64	38.67	38.67	116.21	5821.18	5778.62	136.77	
1500.00	1452.27	0.00	0.00	1485.27	41.57	41.57	116.22	5834.57	5788.62	127.00	
1600.00	1546.86	0.00	0.00	1579.86	44.45	44.45	116.30	5849.55	5800.18	118.47	
1700.00	1641.14	0.00	0.00	1674.14	47.31	47.31	116.57	5865.10	5812.28	111.03	
1800.00	1735.42	0.00	0.00	1768.42	50.17	50.17	116.85	5880.80	5824.52	104.50	
1900.00	1829.70	0.00	0.00	1862.70	53.03	53.03	117.13	5896.64	5836.90	98.71	
2000.00	1923.98	0.00	0.00	1956.98	55.90	55.90	117.40	5912.63	5849.42	93.55	
2100.00	2018.26	0.00	0.00	2051.26	58.76	58.76	117.68	5928.76	5862.09	88.92	

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
2200.00	2112.54	0.00	0.00	2145.54	61.62	61.62	117.95	5945.04	5874.89	84.75	
2300.00	2206.83	0.00	0.00	2239.83	64.49	64.49	118.22	5961.45	5887.83	80.98	
2400.00	2301.11	0.00	0.00	2334.11	67.35	67.35	118.49	5978.01	5900.92	77.54	
2500.00	2395.39	0.00	0.00	2428.39	70.21	70.21	118.76	5994.71	5914.14	74.41	
2600.00	2489.67	0.00	0.00	2522.67	73.08	73.08	119.02	6011.55	5927.51	71.53	
2700.00	2583.95	0.00	0.00	2616.95	75.94	75.94	119.29	6028.52	5941.01	68.89	
2800.00	2678.23	0.00	0.00	2711.23	78.80	78.80	119.55	6045.63	5954.65	66.46	
2900.00	2772.51	0.00	0.00	2805.51	81.67	81.67	119.81	6062.87	5968.44	64.20	
3000.00	2866.79	0.00	0.00	2899.79	84.53	84.53	120.07	6080.25	5982.35	62.11	
3100.00	2961.08	0.00	0.00	2994.08	87.39	87.39	120.33	6097.76	5996.41	60.16	
3200.00	3055.36	0.00	0.00	3088.36	90.26	90.26	120.59	6115.40	6010.59	58.35	
3300.00	3149.64	0.00	0.00	3182.64	93.12	93.12	120.85	6133.18	6024.92	56.65	
3400.00	3243.92	0.00	0.00	3276.92	95.98	95.98	121.10	6151.08	6039.37	55.07	
3500.00	3338.20	0.00	0.00	3371.20	98.85	98.85	121.36	6169.11	6053.96	53.58	
3600.00	3432.48	0.00	0.00	3465.48	101.71	101.71	121.61	6187.27	6068.68	52.18	
3700.00	3526.76	0.00	0.00	3559.76	104.57	104.57	121.86	6205.55	6083.53	50.86	
3800.00	3621.04	0.00	0.00	3654.04	107.44	107.44	122.11	6223.96	6098.51	49.62	
3900.00	3715.33	0.00	0.00	3748.33	110.30	110.30	122.36	6242.49	6113.62	48.44	
4000.00	3809.61	0.00	0.00	3842.61	113.16	113.16	122.61	6261.14	6128.86	47.33	
4100.00	3903.89	0.00	0.00	3936.89	116.03	116.03	122.85	6279.92	6144.23	46.28	
4200.00	3998.17	0.00	0.00	4031.17	118.89	118.89	123.10	6298.82	6159.72	45.28	
4300.00	4092.45	0.00	0.00	4125.45	121.75	121.75	123.34	6317.83	6175.33	44.34	
4400.00	4186.73	0.00	0.00	4219.73	124.62	124.62	123.58	6336.96	6191.07	43.44	
4500.00	4281.01	0.00	0.00	4314.01	127.48	127.48	123.82	6356.22	6206.94	42.58	
4600.00	4375.30	0.00	0.00	4408.30	130.34	130.34	124.06	6375.58	6222.92	41.76	
4700.00	4469.58	0.00	0.00	4502.58	133.20	133.20	124.30	6395.07	6239.03	40.98	
4800.00	4563.86	0.00	0.00	4596.86	136.07	136.07	124.54	6414.66	6255.25	40.24	
4900.00	4658.14	0.00	0.00	4691.14	138.93	138.93	124.77	6434.37	6271.60	39.53	
5000.00	4752.42	0.00	0.00	4785.42	141.79	141.79	125.01	6454.19	6288.07	38.85	
5100.00	4846.70	0.00	0.00	4879.70	144.66	144.66	125.24	6474.12	6304.64	38.20	
5200.00	4940.98	0.00	0.00	4973.98	147.52	147.52	125.47	6494.17	6321.23	37.55	
5300.00	5035.26	0.00	0.00	5068.26	150.38	150.38	125.70	6514.32	6337.93	36.93	
5400.00	5129.55	0.00	0.00	5162.55	153.25	153.25	125.93	6534.58	6354.75	36.34	
5500.00	5223.83	0.00	0.00	5256.83	156.11	156.11	126.16	6554.94	6371.68	35.77	
5600.00	5318.11	0.00	0.00	5351.11	158.97	158.97	126.38	6575.41	6388.72	35.22	
5700.00	5412.39	0.00	0.00	5445.39	161.84	161.84	126.61	6595.99	6405.86	34.69	
5800.00	5506.67	0.00	0.00	5539.67	164.70	164.70	126.83	6616.67	6423.11	34.18	
5900.00	5600.95	0.00	0.00	5633.95	167.56	167.56	127.05	6637.45	6440.47	33.70	
6000.00	5695.23	0.00	0.00	5728.23	170.43	170.43	127.27	6658.34	6457.94	33.23	
6100.00	5789.51	0.00	0.00	5822.51	173.29	173.29	127.49	6679.33	6475.51	32.77	
6200.00	5883.80	0.00	0.00	5916.80	176.15	176.15	127.71	6700.41	6493.19	32.33	
6300.00	5978.08	0.00	0.00	6011.08	179.02	179.02	127.93	6721.60	6510.97	31.91	
6400.00	6072.36	0.00	0.00	6105.36	181.88	181.88	128.14	6742.88	6528.85	31.50	
6500.00	6166.64	0.00	0.00	6199.64	184.74	184.74	128.36	6764.26	6546.84	31.11	
6600.00	6261.46	0.00	0.00	6294.46	187.62	187.62	114.43	6782.69	6561.90	30.72	
6700.00	6357.71	0.00	0.00	6390.71	190.54	190.54	86.92	6788.13	6564.07	30.30	
6800.00	6453.67	0.00	0.00	6486.67	193.46	193.46	61.27	6779.74	6552.46	29.83	
6900.00	6547.49	0.00	0.00	6580.49	196.31	196.31	44.63	6757.68	6527.30	29.33	
7000.00	6637.33	0.00	0.00	6670.33	199.04	199.04	34.89	6722.38	6489.05	28.81	
7100.00	6721.45	0.00	0.00	6754.45	201.59	201.59	29.12	6674.52	6438.45	28.27	
7200.00	6798.21	0.00	0.00	6831.21	203.92	203.92	25.65	6615.01	6376.46	27.73	
7300.00	6866.12	0.00	0.00	6899.12	205.98	205.98	23.68	6544.99	6304.26	27.19	
7400.00	6923.85	0.00	0.00	6956.85	207.74	207.74	22.88	6465.81	6223.22	26.65	
7500.00	6970.28	0.00	0.00	7003.28	209.15	209.15	23.29	6378.99	6134.90	26.13	
7600.00	7004.50	0.00	0.00	7037.50	210.19	210.19	25.59	6286.20	6041.00	25.64	
7700.00	7025.86	0.00	0.00	7058.86	210.84	210.84	33.05	6189.22	5943.32	25.17	
7800.00	7033.93	0.00	0.00	7066.93	211.08	211.08	77.24	6089.93	5843.78	24.74	
7900.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	5990.09	5743.89	24.33	

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
8000.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	5890.26	5643.92	23.91	
8100.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	5790.43	5544.07	23.50	
8200.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	5690.61	5444.16	23.09	
8300.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	5590.79	5344.29	22.68	
8400.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	5490.98	5244.40	22.27	
8500.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	5391.18	5144.61	21.87	
8600.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	5291.38	5044.74	21.45	
8700.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	5191.59	4944.81	21.04	
8800.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	5091.81	4845.07	20.64	
8900.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	4992.04	4745.14	20.22	
9000.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	4892.28	4645.27	19.81	
9100.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	4792.53	4545.47	19.40	
9200.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	4692.79	4445.66	18.99	
9300.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	4593.06	4345.86	18.58	
9400.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	4493.34	4245.95	18.16	
9500.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	4393.64	4146.06	17.75	
9600.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	4293.95	4046.20	17.33	
9700.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	4194.27	3946.36	16.92	
9800.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	4094.61	3846.55	16.51	
9900.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	3994.97	3746.76	16.10	
10000.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	3895.34	3647.00	15.69	
10100.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	3795.74	3547.28	15.28	
10200.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	3696.15	3447.59	14.87	
10300.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	3596.59	3347.84	14.46	
10400.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	3497.05	3248.00	14.04	
10500.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	3397.55	3148.18	13.62	
10600.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	3298.07	3048.42	13.21	
10700.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	3198.62	2948.75	12.80	
10800.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	3099.21	2849.19	12.40	
10900.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	2999.84	2749.49	11.98	
11000.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	2900.51	2649.70	11.56	
11100.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	2801.23	2550.03	11.15	
11200.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	2702.00	2450.50	10.74	
11300.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	2602.83	2351.03	10.34	
11400.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	2503.73	2251.21	9.92	
11500.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	2404.70	2151.41	9.49	
11600.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	2305.76	2051.71	9.08	
11700.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	2206.91	1951.97	8.66	
11800.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	2108.17	1852.22	8.24	
11900.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	2009.55	1752.55	7.82	
12000.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	1911.08	1652.96	7.40	
12100.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	1812.77	1553.35	6.99	
12200.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	1714.66	1453.76	6.57	
12300.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	1616.79	1354.28	6.16	
12400.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	1519.19	1254.81	5.75	
12500.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	1421.92	1155.41	5.34	
12600.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	1325.06	1056.14	4.93	
12700.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	1228.70	956.95	4.52	
12800.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	1132.97	858.07	4.12	
12900.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	1038.06	758.69	3.72	
13000.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	944.18	659.28	3.31	
13100.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	851.71	560.42	2.92	
13200.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	761.14	462.67	2.55	
13300.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	673.25	365.11	2.18	SF(Low)
13400.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	589.23	269.02	1.84	SF(Low)
13500.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	511.00	175.26	1.52	SF(Low)
13600.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	441.64	88.11	1.25	SF(Med)
13700.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	385.97	13.57	1.04	SF(Med)

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
13800.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	350.57	-37.09	0.90	SF(Hi)
13900.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	341.80	-50.42	0.87	SF(Hi)
14000.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	361.60	-19.90	0.95	SF(Hi)
14100.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	405.81	41.90	1.12	SF(Med)
14200.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	467.55	122.94	1.36	SF(Med)
14300.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	540.86	213.67	1.65	SF(Lo)
14400.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	621.66	308.87	1.99	SF(Lo)
14500.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	707.38	404.93	2.34	SF(Lo)
14600.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	796.44	502.84	2.71	
14700.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	887.83	602.06	3.11	
14800.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	980.90	700.29	3.50	
14900.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	1075.22	798.94	3.89	
15000.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	1170.48	898.06	4.30	
15100.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	1266.47	997.48	4.71	
15200.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	1363.04	1096.88	5.12	
15300.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	1460.07	1196.34	5.54	
15400.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	1557.48	1295.92	5.95	
15500.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	1655.19	1395.34	6.37	
15600.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	1753.16	1494.67	6.78	
15700.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	1851.35	1593.95	7.19	
15701.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	1852.33	1594.94	7.20	
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	239.54	3156.23	3155.50	4334.85	
100.00	67.00	0.00	0.00	100.00	1.02	1.02	239.54	3156.06	3154.20	1701.47	
200.00	167.00	0.00	0.00	200.00	2.54	2.54	239.54	3156.06	3152.46	876.23	
300.00	267.00	0.00	0.00	300.00	5.58	5.58	239.54	3156.06	3149.20	459.84	
400.00	367.00	0.00	0.00	400.00	8.61	8.61	239.54	3156.06	3145.93	311.71	
500.00	467.00	0.00	0.00	500.00	11.65	11.65	239.54	3156.06	3142.85	238.83	
600.00	567.00	0.00	0.00	600.00	14.69	14.69	239.54	3156.06	3139.58	191.55	
700.00	666.98	0.00	0.00	699.98	17.72	17.72	101.38	3156.40	3136.70	160.16	
800.00	766.84	0.00	0.00	799.84	20.76	20.76	101.45	3157.44	3134.50	137.66	
900.00	866.45	0.00	0.00	899.45	23.78	23.78	101.57	3159.19	3133.01	120.71	
1000.00	965.70	0.00	0.00	998.70	26.80	26.80	101.73	3161.67	3132.24	107.43	
1100.00	1064.47	0.00	0.00	1097.47	29.80	29.80	101.95	3164.91	3132.20	96.74	
1200.00	1162.62	0.00	0.00	1195.62	32.78	32.78	102.20	3168.98	3132.94	87.94	
1300.00	1260.06	0.00	0.00	1293.06	35.74	35.74	102.49	3173.91	3134.52	80.59	
1400.00	1356.64	0.00	0.00	1389.64	38.67	38.67	102.81	3179.77	3137.01	74.37	
1500.00	1452.27	0.00	0.00	1485.27	41.57	41.57	103.17	3186.62	3140.45	69.01	
1600.00	1546.86	0.00	0.00	1579.86	44.45	44.45	103.60	3194.53	3144.92	64.39	
1700.00	1641.14	0.00	0.00	1674.14	47.31	47.31	104.15	3202.98	3149.91	60.36	
1800.00	1735.42	0.00	0.00	1768.42	50.17	50.17	104.69	3211.75	3155.22	56.82	
1900.00	1829.70	0.00	0.00	1862.70	53.03	53.03	105.23	3220.84	3160.86	53.70	
2000.00	1923.98	0.00	0.00	1956.98	55.90	55.90	105.78	3230.25	3166.82	50.93	
2100.00	2018.26	0.00	0.00	2051.26	58.76	58.76	106.31	3239.97	3173.02	48.39	
2200.00	2112.54	0.00	0.00	2145.54	61.62	61.62	106.85	3250.01	3179.52	46.10	
2300.00	2206.83	0.00	0.00	2239.83	64.49	64.49	107.38	3260.36	3186.32	44.04	
2400.00	2301.11	0.00	0.00	2334.11	67.35	67.35	107.91	3271.01	3193.44	42.17	
2500.00	2395.39	0.00	0.00	2428.39	70.21	70.21	108.43	3281.97	3200.87	40.47	
2600.00	2489.67	0.00	0.00	2522.67	73.08	73.08	108.95	3293.23	3208.61	38.92	
2700.00	2583.95	0.00	0.00	2616.95	75.94	75.94	109.47	3304.78	3216.65	37.50	
2800.00	2678.23	0.00	0.00	2711.23	78.80	78.80	109.99	3316.64	3224.99	36.19	
2900.00	2772.51	0.00	0.00	2805.51	81.67	81.67	110.50	3328.78	3233.64	34.99	
3000.00	2866.79	0.00	0.00	2899.79	84.53	84.53	111.01	3341.21	3242.58	33.88	
3100.00	2961.08	0.00	0.00	2994.08	87.39	87.39	111.52	3353.93	3251.82	32.85	
3200.00	3055.36	0.00	0.00	3088.36	90.26	90.26	112.02	3366.93	3261.36	31.89	

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
3300.00	3149.64	0.00	0.00	3182.64	93.12	93.12	112.52	3380.21	3271.18	31.00	
3400.00	3243.92	0.00	0.00	3276.92	95.98	95.98	113.01	3393.76	3281.30	30.18	
3500.00	3338.20	0.00	0.00	3371.20	98.85	98.85	113.50	3407.58	3291.70	29.41	
3600.00	3432.48	0.00	0.00	3465.48	101.71	101.71	113.99	3421.68	3302.38	28.68	
3700.00	3526.76	0.00	0.00	3559.76	104.57	104.57	114.47	3436.04	3313.35	28.01	
3800.00	3621.04	0.00	0.00	3654.04	107.44	107.44	114.95	3450.66	3324.59	27.37	
3900.00	3715.33	0.00	0.00	3748.33	110.30	110.30	115.43	3465.54	3336.11	26.78	
4000.00	3809.61	0.00	0.00	3842.61	113.16	113.16	115.90	3480.68	3347.75	26.19	
4100.00	3903.89	0.00	0.00	3936.89	116.03	116.03	116.37	3496.07	3359.64	25.63	
4200.00	3998.17	0.00	0.00	4031.17	118.89	118.89	116.84	3511.70	3371.78	25.10	
4300.00	4092.45	0.00	0.00	4125.45	121.75	121.75	117.30	3527.59	3384.19	24.60	
4400.00	4186.73	0.00	0.00	4219.73	124.62	124.62	117.76	3543.71	3396.84	24.13	
4500.00	4281.01	0.00	0.00	4314.01	127.48	127.48	118.21	3560.08	3409.75	23.68	
4600.00	4375.30	0.00	0.00	4408.30	130.34	130.34	118.66	3576.68	3422.89	23.26	
4700.00	4469.58	0.00	0.00	4502.58	133.20	133.20	119.11	3593.51	3436.27	22.85	
4800.00	4563.86	0.00	0.00	4596.86	136.07	136.07	119.55	3610.57	3449.90	22.47	
4900.00	4658.14	0.00	0.00	4691.14	138.93	138.93	119.99	3627.86	3463.76	22.11	
5000.00	4752.42	0.00	0.00	4785.42	141.79	141.79	120.42	3645.37	3477.86	21.76	
5100.00	4846.70	0.00	0.00	4879.70	144.66	144.66	120.85	3663.10	3492.19	21.43	
5200.00	4940.98	0.00	0.00	4973.98	147.52	147.52	121.28	3681.05	3506.75	21.12	
5300.00	5035.26	0.00	0.00	5068.26	150.38	150.38	121.70	3699.21	3521.54	20.82	
5400.00	5129.55	0.00	0.00	5162.55	153.25	153.25	122.12	3717.58	3536.55	20.54	
5500.00	5223.83	0.00	0.00	5256.83	156.11	156.11	122.54	3736.16	3551.78	20.26	
5600.00	5318.11	0.00	0.00	5351.11	158.97	158.97	122.95	3754.94	3567.24	20.00	
5700.00	5412.39	0.00	0.00	5445.39	161.84	161.84	123.36	3773.92	3582.90	19.76	
5800.00	5506.67	0.00	0.00	5539.67	164.70	164.70	123.76	3793.10	3598.78	19.52	
5900.00	5600.95	0.00	0.00	5633.95	167.56	167.56	124.16	3812.48	3614.87	19.29	
6000.00	5695.23	0.00	0.00	5728.23	170.43	170.43	124.56	3832.04	3631.17	19.08	
6100.00	5789.51	0.00	0.00	5822.51	173.29	173.29	124.95	3851.80	3647.67	18.87	
6200.00	5883.80	0.00	0.00	5916.80	176.15	176.15	125.34	3871.74	3664.31	18.66	
6300.00	5978.08	0.00	0.00	6011.08	179.02	179.02	125.72	3891.87	3680.99	18.46	
6400.00	6072.36	0.00	0.00	6105.36	181.88	181.88	126.11	3912.17	3697.87	18.26	
6500.00	6166.64	0.00	0.00	6199.64	184.74	184.74	126.48	3932.66	3714.93	18.06	
6600.00	6261.46	0.00	0.00	6294.46	187.62	187.62	112.75	3950.26	3729.17	17.87	
6700.00	6357.71	0.00	0.00	6390.71	190.54	190.54	85.40	3954.94	3730.57	17.63	
6800.00	6453.67	0.00	0.00	6486.67	193.46	193.46	59.89	3945.86	3718.28	17.34	
6900.00	6547.49	0.00	0.00	6580.49	196.31	196.31	43.35	3923.20	3692.52	17.01	
7000.00	6637.33	0.00	0.00	6670.33	199.04	199.04	33.71	3887.37	3653.76	16.64	
7100.00	6721.45	0.00	0.00	6754.45	201.59	201.59	28.01	3839.06	3602.75	16.25	
7200.00	6798.21	0.00	0.00	6831.21	203.92	203.92	24.59	3779.18	3540.42	15.83	
7300.00	6866.12	0.00	0.00	6899.12	205.98	205.98	22.66	3708.88	3467.96	15.39	
7400.00	6923.85	0.00	0.00	6956.85	207.74	207.74	21.87	3629.49	3386.74	14.95	
7500.00	6970.28	0.00	0.00	7003.28	209.15	209.15	22.25	3542.51	3298.29	14.51	
7600.00	7004.50	0.00	0.00	7037.50	210.19	210.19	24.43	3449.62	3204.31	14.06	
7700.00	7025.86	0.00	0.00	7058.86	210.84	210.84	31.52	3352.58	3106.59	13.63	
7800.00	7033.93	0.00	0.00	7066.93	211.08	211.08	76.23	3253.25	3007.02	13.21	
7900.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	3153.38	2907.13	12.81	
8000.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	3053.53	2807.16	12.39	
8100.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	2953.69	2707.30	11.99	
8200.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	2853.85	2607.39	11.58	
8300.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	2754.03	2507.54	11.17	
8400.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	2654.22	2407.65	10.76	
8500.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	2554.43	2307.89	10.36	
8600.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	2454.66	2208.05	9.95	
8700.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	2354.90	2108.14	9.54	
8800.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	2255.16	2008.47	9.14	
8900.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	2155.45	1908.56	8.73	
9000.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	2055.77	1808.79	8.32	

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
9100.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	1956.12	1709.10	7.92	
9200.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	1856.51	1609.42	7.51	
9300.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	1756.94	1509.63	7.10	
9400.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	1657.42	1409.90	6.70	
9500.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	1557.97	1310.25	6.29	
9600.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	1458.59	1210.69	5.88	
9700.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	1359.30	1111.23	5.48	
9800.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	1260.13	1011.78	5.07	
9900.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	1161.09	911.98	4.66	
10000.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	1062.24	812.27	4.25	
10100.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	963.62	712.72	3.84	
10200.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	865.32	613.26	3.43	
10300.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	767.46	513.88	3.03	
10400.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	670.23	414.97	2.63	
10500.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	573.95	316.41	2.23	SF(Lo)
10600.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	479.20	217.37	1.83	SF(Lo)
10700.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	387.11	119.00	1.44	SF(Med)
10800.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	300.11	21.63	1.08	SF(Med)
10900.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	224.24	-69.53	0.76	SF(Hi)
11000.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	174.63	-137.48	0.56	SF(Hi)
11100.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	175.25	-133.68	0.57	SF(Hi)
11200.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	225.67	-63.33	0.78	SF(Hi)
11300.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	301.90	29.54	1.11	SF(Med)
11400.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	389.05	126.30	1.48	SF(Med)
11500.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	481.22	224.65	1.88	SF(Lo)
11600.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	576.01	322.52	2.27	SF(Lo)
11700.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	672.31	421.51	2.68	
11800.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	769.56	520.61	3.09	
11900.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	867.43	619.25	3.50	
12000.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	965.74	718.17	3.90	
12100.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	1064.36	817.11	4.30	
12200.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	1163.22	916.23	4.71	
12300.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	1262.26	1015.53	5.12	
12400.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	1361.44	1114.98	5.52	
12500.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	1460.73	1214.49	5.93	
12600.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	1560.11	1314.05	6.34	
12700.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	1659.56	1413.59	6.75	
12800.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	1759.08	1513.19	7.15	
12900.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	1858.65	1612.84	7.56	
13000.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	1958.26	1712.51	7.97	
13100.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	2057.91	1812.22	8.38	
13200.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	2157.60	1911.96	8.78	
13300.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	2257.31	2011.73	9.19	
13400.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	2357.04	2111.52	9.60	
13500.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	2456.80	2211.31	10.01	
13600.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	2556.58	2311.12	10.42	
13700.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	2656.37	2410.95	10.82	
13800.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	2756.18	2510.79	11.23	
13900.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	2856.00	2610.64	11.64	
14000.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	2955.83	2710.50	12.05	
14100.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	3055.68	2810.36	12.46	
14200.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	3155.53	2910.23	12.86	
14300.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	3255.39	3010.10	13.27	
14400.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	3355.27	3109.98	13.68	
14500.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	3455.14	3209.86	14.09	
14600.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	3555.03	3309.75	14.49	
14700.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	3654.92	3409.65	14.90	
14800.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	3754.82	3509.55	15.31	

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
14900.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	3854.72	3609.46	15.72	
15000.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	3954.63	3709.36	16.12	
15100.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	4054.54	3809.27	16.53	
15200.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	4154.46	3909.17	16.94	
15300.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	4254.38	4009.05	17.34	
15400.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	4354.30	4108.92	17.75	
15500.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	4454.23	4208.81	18.15	
15600.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	4554.16	4308.70	18.55	
15700.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	4654.10	4408.59	18.96	
15701.00	7034.00	0.00	0.00	7067.00	211.08	211.08	90.00	4655.09	4409.58	18.96	
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	223.97	2109.34	2108.61	2897.07	
100.00	61.00	0.00	0.00	100.00	0.93	0.93	223.97	2108.98	2107.22	1197.32	
200.00	161.00	0.00	0.00	200.00	2.44	2.44	223.97	2108.98	2105.48	602.70	
300.00	261.00	0.00	0.00	300.00	5.40	5.40	223.97	2108.98	2102.31	316.33	
400.00	361.00	0.00	0.00	400.00	8.43	8.43	223.97	2108.98	2099.23	216.33	
500.00	461.00	0.00	0.00	500.00	11.47	11.47	223.97	2108.98	2095.98	162.19	
600.00	561.00	0.00	0.00	600.00	14.51	14.51	223.97	2108.98	2092.72	129.73	
700.00	660.98	0.00	0.00	699.98	17.54	17.54	85.83	2108.85	2089.37	108.21	
800.00	760.84	0.00	0.00	799.84	20.57	20.57	85.98	2108.48	2085.78	92.89	
900.00	860.45	0.00	0.00	899.45	23.60	23.60	86.23	2107.89	2081.96	81.31	
1000.00	959.70	0.00	0.00	998.70	26.61	26.61	86.57	2107.12	2077.95	72.25	
1100.00	1058.47	0.00	0.00	1097.47	29.61	29.61	87.01	2106.23	2073.79	64.93	
1200.00	1156.62	0.00	0.00	1195.62	32.59	32.59	87.54	2105.31	2069.54	58.86	
1300.00	1254.06	0.00	0.00	1293.06	35.55	35.55	88.15	2104.44	2065.29	53.75	
1400.00	1350.64	0.00	0.00	1389.64	38.49	38.49	88.85	2103.74	2061.16	49.42	
1500.00	1446.27	0.00	0.00	1485.27	41.39	41.39	89.62	2103.33	2057.29	45.69	
1600.00	1540.86	0.00	0.00	1579.86	44.26	44.26	90.45	2103.35	2053.82	42.47	
1700.00	1635.14	0.00	0.00	1674.14	47.13	47.13	91.31	2103.89	2050.85	39.67	
1800.00	1729.42	0.00	0.00	1768.42	49.99	49.99	92.16	2104.96	2048.41	37.22	
1900.00	1823.70	0.00	0.00	1862.70	52.85	52.85	93.02	2106.56	2046.49	35.07	
2000.00	1917.98	0.00	0.00	1956.98	55.72	55.72	93.87	2108.69	2045.12	33.17	
2100.00	2012.26	0.00	0.00	2051.26	58.58	58.58	94.72	2111.33	2044.28	31.49	
2200.00	2106.54	0.00	0.00	2145.54	61.44	61.44	95.57	2114.50	2043.98	29.98	
2300.00	2200.83	0.00	0.00	2239.83	64.31	64.31	96.42	2118.19	2044.23	28.64	
2400.00	2295.11	0.00	0.00	2334.11	67.17	67.17	97.26	2122.40	2044.83	27.36	
2500.00	2389.39	0.00	0.00	2428.39	70.03	70.03	98.10	2127.12	2045.96	26.21	
2600.00	2483.67	0.00	0.00	2522.67	72.90	72.90	98.94	2132.35	2047.62	25.17	
2700.00	2577.95	0.00	0.00	2616.95	75.76	75.76	99.77	2138.09	2049.79	24.21	
2800.00	2672.23	0.00	0.00	2711.23	78.62	78.62	100.60	2144.33	2052.48	23.35	
2900.00	2766.51	0.00	0.00	2805.51	81.48	81.48	101.43	2151.07	2055.69	22.55	
3000.00	2860.79	0.00	0.00	2899.79	84.35	84.35	102.25	2158.31	2059.41	21.82	
3100.00	2955.08	0.00	0.00	2994.08	87.21	87.21	103.06	2166.03	2063.65	21.16	
3200.00	3049.36	0.00	0.00	3088.36	90.07	90.07	103.87	2174.24	2068.41	20.54	
3300.00	3143.64	0.00	0.00	3182.64	92.94	92.94	104.68	2182.92	2073.67	19.98	
3400.00	3237.92	0.00	0.00	3276.92	95.80	95.80	105.47	2192.08	2079.43	19.46	
3500.00	3332.20	0.00	0.00	3371.20	98.66	98.66	106.27	2201.70	2085.58	18.96	
3600.00	3426.48	0.00	0.00	3465.48	101.53	101.53	107.05	2211.78	2092.08	18.48	
3700.00	3520.76	0.00	0.00	3559.76	104.39	104.39	107.83	2222.32	2099.05	18.03	
3800.00	3615.04	0.00	0.00	3654.04	107.25	107.25	108.60	2233.31	2106.50	17.61	
3900.00	3709.33	0.00	0.00	3748.33	110.12	110.12	109.37	2244.74	2114.42	17.23	
4000.00	3803.61	0.00	0.00	3842.61	112.98	112.98	110.13	2256.60	2122.80	16.87	
4100.00	3897.89	0.00	0.00	3936.89	115.84	115.84	110.88	2268.89	2131.63	16.53	
4200.00	3992.17	0.00	0.00	4031.17	118.71	118.71	111.62	2281.60	2140.92	16.22	
4300.00	4086.45	0.00	0.00	4125.45	121.57	121.57	112.36	2294.72	2150.65	15.93	

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
4400.00	4180.73	0.00	0.00	4219.73	124.43	124.43	113.09	2308.25	2160.82	15.66	
4500.00	4275.01	0.00	0.00	4314.01	127.30	127.30	113.81	2322.18	2171.42	15.40	
4600.00	4369.30	0.00	0.00	4408.30	130.16	130.16	114.52	2336.51	2182.45	15.17	
4700.00	4463.58	0.00	0.00	4502.58	133.02	133.02	115.22	2351.21	2193.90	14.95	
4800.00	4557.86	0.00	0.00	4596.86	135.89	135.89	115.92	2366.30	2205.57	14.72	
4900.00	4652.14	0.00	0.00	4691.14	138.75	138.75	116.61	2381.76	2217.53	14.50	
5000.00	4746.42	0.00	0.00	4785.42	141.61	141.61	117.29	2397.58	2229.88	14.30	
5100.00	4840.70	0.00	0.00	4879.70	144.48	144.48	117.96	2413.76	2242.61	14.10	
5200.00	4934.98	0.00	0.00	4973.98	147.34	147.34	118.63	2430.28	2255.73	13.92	
5300.00	5029.26	0.00	0.00	5068.26	150.20	150.20	119.28	2447.15	2269.18	13.75	
5400.00	5123.55	0.00	0.00	5162.55	153.06	153.06	119.93	2464.36	2283.00	13.59	
5500.00	5217.83	0.00	0.00	5256.83	155.93	155.93	120.57	2481.89	2297.17	13.44	
5600.00	5312.11	0.00	0.00	5351.11	158.79	158.79	121.20	2499.75	2311.69	13.29	
5700.00	5406.39	0.00	0.00	5445.39	161.65	161.65	121.82	2517.92	2326.55	13.16	
5800.00	5500.67	0.00	0.00	5539.67	164.52	164.52	122.43	2536.39	2341.75	13.03	
5900.00	5594.95	0.00	0.00	5633.95	167.38	167.38	123.04	2555.17	2357.28	12.91	
6000.00	5689.23	0.00	0.00	5728.23	170.24	170.24	123.64	2574.25	2373.13	12.80	
6100.00	5783.51	0.00	0.00	5822.51	173.11	173.11	124.23	2593.61	2389.30	12.69	
6200.00	5877.80	0.00	0.00	5916.80	175.97	175.97	124.81	2613.25	2405.78	12.60	
6300.00	5972.08	0.00	0.00	6011.08	178.83	178.83	125.38	2633.17	2422.46	12.50	
6400.00	6066.36	0.00	0.00	6105.36	181.70	181.70	125.95	2653.36	2439.22	12.39	
6500.00	6160.64	0.00	0.00	6199.64	184.56	184.56	126.50	2673.81	2456.27	12.29	
6600.00	6255.46	0.00	0.00	6294.46	187.44	187.44	112.94	2691.46	2470.57	12.18	
6700.00	6351.71	0.00	0.00	6390.71	190.36	190.36	85.77	2696.27	2472.15	12.03	
6800.00	6447.67	0.00	0.00	6486.67	193.28	193.28	60.43	2687.41	2460.11	11.82	
6900.00	6541.49	0.00	0.00	6580.49	196.13	196.13	44.10	2665.03	2434.69	11.57	
7000.00	6631.33	0.00	0.00	6670.33	198.85	198.85	34.69	2629.57	2396.37	11.28	
7100.00	6715.45	0.00	0.00	6754.45	201.41	201.41	29.28	2581.70	2345.85	10.95	
7200.00	6792.21	0.00	0.00	6831.21	203.74	203.74	26.24	2522.31	2284.09	10.59	
7300.00	6860.12	0.00	0.00	6899.12	205.80	205.80	24.82	2452.54	2212.25	10.21	
7400.00	6917.85	0.00	0.00	6956.85	207.56	207.56	24.78	2373.70	2131.67	9.81	
7500.00	6964.28	0.00	0.00	7003.28	208.97	208.97	26.32	2287.29	2043.87	9.40	
7600.00	6998.50	0.00	0.00	7037.50	210.00	210.00	30.55	2194.93	1950.52	8.98	
7700.00	7019.86	0.00	0.00	7058.86	210.65	210.65	41.75	2098.37	1853.37	8.57	
7800.00	7027.93	0.00	0.00	7066.93	210.90	210.90	82.26	1999.43	1754.21	8.15	
7900.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	1899.92	1654.62	7.75	
8000.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	1800.45	1555.15	7.34	
8100.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	1701.05	1455.84	6.94	
8200.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	1601.72	1356.45	6.53	
8300.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	1502.48	1257.23	6.13	
8400.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	1403.35	1158.13	5.72	
8500.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	1304.35	1058.69	5.31	
8600.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	1205.52	959.48	4.90	
8700.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	1106.89	860.46	4.49	
8800.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	1008.54	761.69	4.09	
8900.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	910.55	663.12	3.68	
9000.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	813.04	565.10	3.28	
9100.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	716.23	467.65	2.88	
9200.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	620.42	371.17	2.49	SF(Lo)
9300.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	526.18	274.41	2.09	SF(Lo)
9400.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	434.52	180.33	1.71	SF(Lo)
9500.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	347.49	88.49	1.34	SF(Med)
9600.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	269.62	3.37	1.01	SF(Med)
9700.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	211.27	-65.08	0.76	SF(Hi)
9800.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	191.25	-89.99	0.68	SF(Hi)
9900.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	220.27	-53.81	0.80	SF(Hi)
10000.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	283.66	20.02	1.08	SF(Med)
10100.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	363.87	106.61	1.41	SF(Med)

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
10200.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	452.05	198.39	1.78	SF(Lo)
10300.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	544.32	293.47	2.17	SF(Lo)
10400.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	638.93	389.36	2.56	
10500.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	734.96	486.62	2.96	
10600.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	831.93	584.57	3.36	
10700.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	929.55	682.92	3.77	
10800.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	1027.62	781.10	4.17	
10900.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	1126.03	879.62	4.57	
11000.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	1224.70	978.43	4.97	
11100.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	1323.56	1077.35	5.38	
11200.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	1422.59	1176.44	5.78	
11300.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	1521.74	1275.77	6.19	
11400.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	1621.00	1375.09	6.59	
11500.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	1720.35	1474.48	7.00	
11600.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	1819.76	1574.02	7.41	
11700.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	1919.24	1673.67	7.82	
11800.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	2018.77	1773.19	8.22	
11900.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	2118.34	1872.78	8.63	
12000.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	2217.95	1972.43	9.03	
12100.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	2317.59	2072.13	9.44	
12200.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	2417.27	2171.88	9.85	
12300.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	2516.97	2271.66	10.26	
12400.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	2616.69	2371.46	10.67	
12500.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	2716.43	2471.20	11.08	
12600.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	2816.20	2570.96	11.48	
12700.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	2915.97	2670.75	11.89	
12800.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	3015.76	2770.56	12.30	
12900.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	3115.57	2870.37	12.71	
13000.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	3215.39	2970.20	13.11	
13100.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	3315.22	3070.04	13.52	
13200.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	3415.06	3169.89	13.93	
13300.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	3514.90	3269.75	14.34	
13400.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	3614.76	3369.62	14.75	
13500.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	3714.62	3469.49	15.15	
13600.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	3814.50	3569.38	15.56	
13700.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	3914.37	3669.26	15.97	
13800.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	4014.26	3769.16	16.38	
13900.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	4114.15	3869.06	16.79	
14000.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	4214.04	3968.96	17.19	
14100.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	4313.94	4068.86	17.60	
14200.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	4413.84	4168.76	18.01	
14300.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	4513.75	4268.67	18.42	
14400.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	4613.67	4368.58	18.82	
14500.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	4713.58	4468.49	19.23	
14600.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	4813.50	4568.38	19.64	
14700.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	4913.42	4668.27	20.04	
14800.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	5013.35	4768.16	20.45	
14900.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	5113.28	4868.05	20.85	
15000.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	5213.21	4967.95	21.26	
15100.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	5313.14	5067.85	21.66	
15200.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	5413.08	5167.76	22.07	
15300.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	5513.02	5267.66	22.47	
15400.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	5612.96	5367.57	22.87	
15500.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	5712.90	5467.48	23.28	
15600.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	5812.85	5567.39	23.68	
15700.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	5912.80	5667.30	24.09	
15701.00	7028.00	0.00	0.00	7067.00	210.90	210.90	90.00	5913.79	5668.30	24.09	

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
0.00	0.00	0.00	0.00	25.00	0.00	0.00	257.06	7456.93	7456.20	10241.61	
100.00	75.00	0.00	0.00	100.00	1.14	1.14	257.06	7456.89	7454.92	3776.28	
200.00	175.00	0.00	0.00	200.00	2.78	2.78	257.06	7456.89	7453.05	1941.49	
300.00	275.00	0.00	0.00	300.00	5.82	5.82	257.06	7456.89	7449.79	1050.54	
400.00	375.00	0.00	0.00	400.00	8.86	8.86	257.06	7456.89	7446.53	720.09	
500.00	475.00	0.00	0.00	500.00	11.89	11.89	257.06	7456.89	7443.45	554.79	
600.00	575.00	0.00	0.00	600.00	14.93	14.93	257.06	7456.89	7440.19	446.56	
700.00	674.98	0.00	0.00	699.98	17.97	17.97	118.87	7457.73	7437.80	374.17	
800.00	774.84	0.00	0.00	799.84	21.00	21.00	118.86	7460.26	7437.12	322.30	
900.00	874.45	0.00	0.00	899.45	24.03	24.03	118.85	7464.48	7438.10	282.98	
1000.00	973.70	0.00	0.00	998.70	27.04	27.04	118.83	7470.39	7440.76	252.07	
1100.00	1072.47	0.00	0.00	1097.47	30.04	30.04	118.80	7478.01	7445.10	227.25	
1200.00	1170.62	0.00	0.00	1195.62	33.02	33.02	118.76	7487.32	7451.12	206.82	
1300.00	1268.06	0.00	0.00	1293.06	35.98	35.98	118.71	7498.35	7458.82	189.69	
1400.00	1364.64	0.00	0.00	1389.64	38.91	38.91	118.65	7511.11	7468.23	175.16	
1500.00	1460.27	0.00	0.00	1485.27	41.82	41.82	118.59	7525.60	7479.35	162.73	
1600.00	1554.86	0.00	0.00	1579.86	44.69	44.69	118.58	7541.78	7492.11	151.83	
1700.00	1649.14	0.00	0.00	1674.14	47.55	47.55	118.80	7558.52	7505.41	142.33	
1800.00	1743.42	0.00	0.00	1768.42	50.41	50.41	119.01	7575.36	7518.81	133.97	
1900.00	1837.70	0.00	0.00	1862.70	53.28	53.28	119.22	7592.31	7532.32	126.56	
2000.00	1931.98	0.00	0.00	1956.98	56.14	56.14	119.43	7609.37	7545.93	119.94	
2100.00	2026.26	0.00	0.00	2051.26	59.00	59.00	119.64	7626.54	7559.64	114.00	
2200.00	2120.54	0.00	0.00	2145.54	61.87	61.87	119.84	7643.81	7573.46	108.64	
2300.00	2214.83	0.00	0.00	2239.83	64.73	64.73	120.05	7661.19	7587.38	103.79	
2400.00	2309.11	0.00	0.00	2334.11	67.59	67.59	120.26	7678.68	7601.41	99.37	
2500.00	2403.39	0.00	0.00	2428.39	70.46	70.46	120.46	7696.27	7615.54	95.33	
2600.00	2497.67	0.00	0.00	2522.67	73.32	73.32	120.67	7713.97	7629.78	91.63	
2700.00	2591.95	0.00	0.00	2616.95	76.18	76.18	120.87	7731.76	7644.12	88.22	
2800.00	2686.23	0.00	0.00	2711.23	79.05	79.05	121.07	7749.66	7658.56	85.07	
2900.00	2780.51	0.00	0.00	2805.51	81.91	81.91	121.28	7767.67	7673.11	82.15	
3000.00	2874.79	0.00	0.00	2899.79	84.77	84.77	121.48	7785.77	7687.77	79.45	
3100.00	2969.08	0.00	0.00	2994.08	87.64	87.64	121.68	7803.97	7702.52	76.93	
3200.00	3063.36	0.00	0.00	3088.36	90.50	90.50	121.88	7822.28	7717.38	74.57	
3300.00	3157.64	0.00	0.00	3182.64	93.36	93.36	122.07	7840.68	7732.35	72.38	
3400.00	3251.92	0.00	0.00	3276.92	96.23	96.23	122.27	7859.18	7747.41	70.32	
3500.00	3346.20	0.00	0.00	3371.20	99.09	99.09	122.47	7877.78	7762.57	68.38	
3600.00	3440.48	0.00	0.00	3465.48	101.95	101.95	122.66	7896.47	7777.84	66.56	
3700.00	3534.76	0.00	0.00	3559.76	104.82	104.82	122.86	7915.26	7793.20	64.85	
3800.00	3629.04	0.00	0.00	3654.04	107.68	107.68	123.05	7934.15	7808.66	63.23	
3900.00	3723.33	0.00	0.00	3748.33	110.54	110.54	123.25	7953.13	7824.23	61.70	
4000.00	3817.61	0.00	0.00	3842.61	113.41	113.41	123.44	7972.21	7839.89	60.25	
4100.00	3911.89	0.00	0.00	3936.89	116.27	116.27	123.63	7991.38	7855.64	58.88	
4200.00	4006.17	0.00	0.00	4031.17	119.13	119.13	123.82	8010.64	7871.50	57.57	
4300.00	4100.45	0.00	0.00	4125.45	121.99	121.99	124.01	8029.99	7887.45	56.33	
4400.00	4194.73	0.00	0.00	4219.73	124.86	124.86	124.20	8049.44	7903.50	55.16	
4500.00	4289.01	0.00	0.00	4314.01	127.72	127.72	124.39	8068.97	7919.64	54.03	
4600.00	4383.30	0.00	0.00	4408.30	130.58	130.58	124.58	8088.60	7935.88	52.96	
4700.00	4477.58	0.00	0.00	4502.58	133.45	133.45	124.76	8108.32	7952.21	51.94	
4800.00	4571.86	0.00	0.00	4596.86	136.31	136.31	124.95	8128.12	7968.63	50.96	
4900.00	4666.14	0.00	0.00	4691.14	139.17	139.17	125.13	8148.02	7985.15	50.03	
5000.00	4760.42	0.00	0.00	4785.42	142.04	142.04	125.32	8168.00	8001.72	49.12	
5100.00	4854.70	0.00	0.00	4879.70	144.90	144.90	125.50	8188.06	8018.33	48.24	
5200.00	4948.98	0.00	0.00	4973.98	147.76	147.76	125.68	8208.22	8035.04	47.40	
5300.00	5043.26	0.00	0.00	5068.26	150.63	150.63	125.86	8228.46	8051.84	46.59	
5400.00	5137.55	0.00	0.00	5162.55	153.49	153.49	126.05	8248.78	8068.72	45.81	
5500.00	5231.83	0.00	0.00	5256.83	156.35	156.35	126.23	8269.19	8085.69	45.06	
5600.00	5326.11	0.00	0.00	5351.11	159.22	159.22	126.40	8289.69	8102.75	44.34	
5700.00	5420.39	0.00	0.00	5445.39	162.08	162.08	126.58	8310.26	8119.89	43.65	

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
5800.00	5514.67	0.00	0.00	5539.67	164.94	164.94	126.76	8330.92	8137.11	42.99	
5900.00	5608.95	0.00	0.00	5633.95	167.81	167.81	126.94	8351.66	8154.43	42.34	
6000.00	5703.23	0.00	0.00	5728.23	170.67	170.67	127.11	8372.48	8171.82	41.72	
6100.00	5797.51	0.00	0.00	5822.51	173.53	173.53	127.29	8393.39	8189.30	41.13	
6200.00	5891.80	0.00	0.00	5916.80	176.40	176.40	127.46	8414.37	8206.86	40.55	
6300.00	5986.08	0.00	0.00	6011.08	179.26	179.26	127.63	8435.43	8224.51	39.99	
6400.00	6080.36	0.00	0.00	6105.36	182.12	182.12	127.81	8456.57	8242.23	39.45	
6500.00	6174.64	0.00	0.00	6199.64	184.99	184.99	127.98	8477.79	8260.04	38.93	
6600.00	6269.46	0.00	0.00	6294.46	187.86	187.86	114.02	8496.03	8274.91	38.42	
6700.00	6365.71	0.00	0.00	6390.71	190.79	190.79	86.47	8501.27	8276.86	37.88	
6800.00	6461.67	0.00	0.00	6486.67	193.70	193.70	60.77	8492.65	8265.01	37.31	
6900.00	6555.49	0.00	0.00	6580.49	196.55	196.55	44.06	8470.35	8239.58	36.70	
7000.00	6645.33	0.00	0.00	6670.33	199.28	199.28	34.25	8434.79	8201.05	36.09	
7100.00	6729.45	0.00	0.00	6754.45	201.83	201.83	28.37	8386.65	8150.17	35.46	
7200.00	6806.21	0.00	0.00	6831.21	204.17	204.17	24.76	8326.86	8087.89	34.84	
7300.00	6874.12	0.00	0.00	6899.12	206.23	206.23	22.60	8256.58	8015.41	34.24	
7400.00	6931.85	0.00	0.00	6956.85	207.98	207.98	21.52	8177.15	7934.10	33.65	
7500.00	6978.28	0.00	0.00	7003.28	209.39	209.39	21.48	8090.09	7845.54	33.08	
7600.00	7012.50	0.00	0.00	7037.50	210.43	210.43	22.96	7997.10	7751.43	32.55	
7700.00	7033.86	0.00	0.00	7058.86	211.08	211.08	28.51	7899.97	7653.59	32.07	
7800.00	7041.93	0.00	0.00	7066.93	211.32	211.32	72.73	7800.56	7553.94	31.63	
7900.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	7700.65	7454.04	31.23	
8000.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	7600.73	7353.98	30.80	
8100.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	7500.81	7254.02	30.39	
8200.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	7400.90	7154.08	29.98	
8300.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	7300.99	7054.15	29.58	
8400.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	7201.08	6954.14	29.16	
8500.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	7101.18	6854.23	28.76	
8600.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	7001.27	6754.27	28.34	
8700.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	6901.37	6654.30	27.93	
8800.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	6801.48	6554.40	27.53	
8900.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	6701.58	6454.49	27.12	
9000.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	6601.69	6354.48	26.71	
9100.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	6501.80	6254.53	26.29	
9200.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	6401.92	6154.59	25.88	
9300.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	6302.04	6054.64	25.47	
9400.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	6202.16	5954.71	25.06	
9500.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	6102.29	5854.79	24.66	
9600.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	6002.42	5754.77	24.24	
9700.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	5902.56	5654.77	23.82	
9800.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	5802.70	5554.79	23.41	
9900.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	5702.85	5454.82	22.99	
10000.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	5603.00	5354.87	22.58	
10100.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	5503.15	5254.94	22.17	
10200.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	5403.32	5155.05	21.76	
10300.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	5303.49	5055.18	21.36	
10400.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	5203.66	4955.18	20.94	
10500.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	5103.84	4855.22	20.53	
10600.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	5004.03	4755.32	20.12	
10700.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	4904.23	4655.42	19.71	
10800.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	4804.43	4555.47	19.30	
10900.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	4704.65	4455.42	18.88	
11000.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	4604.87	4355.47	18.46	
11100.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	4505.10	4255.63	18.06	
11200.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	4405.35	4155.72	17.65	
11300.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	4305.60	4055.72	17.23	
11400.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	4205.87	3955.75	16.82	
11500.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	4106.15	3855.85	16.40	

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
11600.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	4006.44	3756.01	16.00	
11700.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	3906.75	3656.13	15.59	
11800.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	3807.08	3556.12	15.17	
11900.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	3707.42	3456.16	14.76	
12000.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	3607.78	3356.23	14.34	
12100.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	3508.17	3256.34	13.93	
12200.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	3408.57	3156.41	13.52	
12300.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	3309.00	3056.46	13.10	
12400.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	3209.46	2956.54	12.69	
12500.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	3109.94	2856.63	12.28	
12600.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	3010.46	2756.75	11.87	
12700.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	2911.01	2656.88	11.45	
12800.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	2811.60	2557.00	11.04	
12900.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	2712.24	2457.09	10.63	
13000.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	2612.92	2357.19	10.22	
13100.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	2513.66	2257.22	9.80	
13200.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	2414.46	2157.27	9.39	
13300.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	2315.33	2057.31	8.97	
13400.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	2216.27	1957.16	8.55	
13500.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	2117.31	1857.01	8.13	
13600.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	2018.44	1756.87	7.72	
13700.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	1919.70	1656.68	7.30	
13800.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	1821.09	1556.46	6.88	
13900.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	1722.64	1456.24	6.47	
14000.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	1624.38	1355.85	6.05	
14100.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	1526.35	1255.39	5.63	
14200.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	1428.59	1154.92	5.22	
14300.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	1331.16	1054.47	4.81	
14400.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	1234.15	954.05	4.41	
14500.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	1137.65	853.70	4.01	
14600.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	1041.81	753.12	3.61	
14700.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	946.84	651.66	3.21	
14800.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	853.01	550.07	2.82	
14900.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	760.76	448.68	2.44	SF(Lo)
15000.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	670.73	347.87	2.08	SF(Lo)
15100.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	583.96	245.16	1.72	SF(Lo)
15200.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	502.13	144.95	1.41	SF(Med)
15300.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	428.08	47.52	1.12	SF(Med)
15400.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	366.58	-39.94	0.90	SF(Hi)
15500.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	324.82	-106.62	0.75	SF(Hi)
15600.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	310.86	-129.39	0.71	SF(Hi)
15700.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	328.27	-98.53	0.77	SF(Hi)
15701.00	7042.00	0.00	0.00	7067.00	211.33	211.33	90.00	328.59	-98.03	0.77	SF(Hi)
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	164.63	1670.43	1669.70	2294.26	
100.00	69.00	0.00	0.00	100.00	1.05	1.05	164.63	1670.14	1668.26	887.67	
200.00	169.00	0.00	0.00	200.00	2.60	2.60	164.63	1670.14	1666.49	457.18	
300.00	269.00	0.00	0.00	300.00	5.64	5.64	164.63	1670.14	1663.24	241.91	
400.00	369.00	0.00	0.00	400.00	8.68	8.68	164.63	1670.14	1659.99	164.46	
500.00	469.00	0.00	0.00	500.00	11.71	11.71	164.63	1670.14	1656.74	124.58	
600.00	569.00	0.00	0.00	600.00	14.75	14.75	164.63	1670.14	1653.49	100.27	
700.00	668.98	0.00	0.00	699.98	17.79	17.79	26.49	1668.58	1648.87	84.63	
800.00	768.84	0.00	0.00	799.84	20.82	20.82	26.61	1663.90	1640.98	72.58	
900.00	868.45	0.00	0.00	899.45	23.84	23.84	26.82	1656.11	1629.97	63.35	
1000.00	967.70	0.00	0.00	998.70	26.86	26.86	27.11	1645.23	1615.87	56.03	

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
1100.00	1066.47	0.00	0.00	1097.47	29.86	29.86	27.49	1631.29	1598.70	50.04	
1200.00	1164.62	0.00	0.00	1195.62	32.84	32.84	27.96	1614.34	1578.49	45.04	
1300.00	1262.06	0.00	0.00	1293.06	35.80	35.80	28.53	1594.41	1555.32	40.79	
1400.00	1358.64	0.00	0.00	1389.64	38.73	38.73	29.20	1571.56	1529.22	37.12	
1500.00	1454.27	0.00	0.00	1485.27	41.63	41.63	29.99	1545.87	1500.28	33.91	
1600.00	1548.86	0.00	0.00	1579.86	44.51	44.51	30.82	1517.51	1468.67	31.07	
1700.00	1643.14	0.00	0.00	1674.14	47.37	47.37	31.46	1488.55	1436.42	28.55	
1800.00	1737.42	0.00	0.00	1768.42	50.23	50.23	32.14	1459.77	1404.36	26.34	
1900.00	1831.70	0.00	0.00	1862.70	53.10	53.10	32.83	1431.19	1372.49	24.38	
2000.00	1925.98	0.00	0.00	1956.98	55.96	55.96	33.56	1402.82	1340.83	22.63	
2100.00	2020.26	0.00	0.00	2051.26	58.82	58.82	34.31	1374.68	1309.37	21.05	
2200.00	2114.54	0.00	0.00	2145.54	61.69	61.69	35.10	1346.77	1278.14	19.62	
2300.00	2208.83	0.00	0.00	2239.83	64.55	64.55	35.91	1319.11	1247.16	18.33	
2400.00	2303.11	0.00	0.00	2334.11	67.41	67.41	36.76	1291.72	1216.45	17.16	
2500.00	2397.39	0.00	0.00	2428.39	70.27	70.27	37.65	1264.61	1186.03	16.09	
2600.00	2491.67	0.00	0.00	2522.67	73.14	73.14	38.57	1237.81	1155.91	15.11	
2700.00	2585.95	0.00	0.00	2616.95	76.00	76.00	39.53	1211.34	1125.93	14.18	
2800.00	2680.23	0.00	0.00	2711.23	78.86	78.86	40.53	1185.21	1096.28	13.33	
2900.00	2774.51	0.00	0.00	2805.51	81.73	81.73	41.58	1159.44	1066.98	12.54	
3000.00	2868.79	0.00	0.00	2899.79	84.59	84.59	42.67	1134.08	1038.08	11.81	
3100.00	2963.08	0.00	0.00	2994.08	87.45	87.45	43.80	1109.13	1009.62	11.15	
3200.00	3057.36	0.00	0.00	3088.36	90.32	90.32	44.99	1084.64	981.62	10.53	
3300.00	3151.64	0.00	0.00	3182.64	93.18	93.18	46.22	1060.63	954.14	9.96	
3400.00	3245.92	0.00	0.00	3276.92	96.04	96.04	47.51	1037.13	927.21	9.44	
3500.00	3340.20	0.00	0.00	3371.20	98.91	98.91	48.85	1014.18	900.78	8.94	
3600.00	3434.48	0.00	0.00	3465.48	101.77	101.77	50.26	991.83	874.64	8.46	
3700.00	3528.76	0.00	0.00	3559.76	104.63	104.63	51.72	970.10	849.14	8.02	
3800.00	3623.04	0.00	0.00	3654.04	107.50	107.50	53.24	949.05	824.35	7.61	
3900.00	3717.33	0.00	0.00	3748.33	110.36	110.36	54.82	928.72	800.35	7.23	
4000.00	3811.61	0.00	0.00	3842.61	113.22	113.22	56.47	909.15	777.20	6.89	
4100.00	3905.89	0.00	0.00	3936.89	116.09	116.09	58.19	890.41	754.97	6.57	
4200.00	4000.17	0.00	0.00	4031.17	118.95	118.95	59.97	872.53	733.14	6.26	
4300.00	4094.45	0.00	0.00	4125.45	121.81	121.81	61.82	855.58	712.28	5.97	
4400.00	4188.73	0.00	0.00	4219.73	124.68	124.68	63.73	839.61	692.51	5.71	
4500.00	4283.01	0.00	0.00	4314.01	127.54	127.54	65.71	824.68	673.87	5.47	
4600.00	4377.30	0.00	0.00	4408.30	130.40	130.40	67.75	810.85	656.52	5.25	
4700.00	4471.58	0.00	0.00	4502.58	133.27	133.27	69.86	798.17	639.75	5.04	
4800.00	4565.86	0.00	0.00	4596.86	136.13	136.13	72.02	786.70	624.29	4.84	
4900.00	4660.14	0.00	0.00	4691.14	138.99	138.99	74.24	776.49	610.32	4.67	
5000.00	4754.42	0.00	0.00	4785.42	141.85	141.85	76.50	767.59	597.93	4.52	
5100.00	4848.70	0.00	0.00	4879.70	144.72	144.72	78.81	760.05	586.62	4.38	
5200.00	4942.98	0.00	0.00	4973.98	147.58	147.58	81.16	753.92	576.51	4.25	
5300.00	5037.26	0.00	0.00	5068.26	150.44	150.44	83.54	749.21	568.05	4.14	
5400.00	5131.55	0.00	0.00	5162.55	153.31	153.31	85.94	745.97	561.40	4.04	
5500.00	5225.83	0.00	0.00	5256.83	156.17	156.17	88.35	744.21	555.93	3.95	
5600.00	5320.11	0.00	0.00	5351.11	159.03	159.03	90.77	743.94	551.79	3.87	
5700.00	5414.39	0.00	0.00	5445.39	161.90	161.90	93.19	745.16	549.51	3.81	
5800.00	5508.67	0.00	0.00	5539.67	164.76	164.76	95.59	747.86	549.12	3.76	
5900.00	5602.95	0.00	0.00	5633.95	167.62	167.62	97.98	752.04	549.76	3.72	
6000.00	5697.23	0.00	0.00	5728.23	170.49	170.49	100.34	757.66	551.79	3.68	
6100.00	5791.51	0.00	0.00	5822.51	173.35	173.35	102.66	764.69	555.51	3.66	
6200.00	5885.80	0.00	0.00	5916.80	176.21	176.21	104.94	773.10	560.97	3.64	
6300.00	5980.08	0.00	0.00	6011.08	179.08	179.08	107.18	782.83	567.41	3.63	
6400.00	6074.36	0.00	0.00	6105.36	181.94	181.94	109.36	793.85	574.93	3.63	
6500.00	6168.64	0.00	0.00	6199.64	184.80	184.80	111.49	806.10	584.02	3.63	
6600.00	6263.46	0.00	0.00	6294.46	187.68	187.68	99.51	816.52	591.65	3.63	
6700.00	6359.71	0.00	0.00	6390.71	190.61	190.61	73.59	815.15	587.82	3.59	
6800.00	6455.67	0.00	0.00	6486.67	193.52	193.52	49.15	800.98	570.50	3.48	

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
6900.00	6549.49	0.00	0.00	6580.49	196.37	196.37	33.41	774.05	540.60	3.32	
7000.00	6639.33	0.00	0.00	6670.33	199.10	199.10	24.36	734.67	498.57	3.11	
7100.00	6723.45	0.00	0.00	6754.45	201.65	201.65	19.07	683.45	445.01	2.87	
7200.00	6800.21	0.00	0.00	6831.21	203.98	203.98	15.93	621.24	380.77	2.58	
7300.00	6868.12	0.00	0.00	6899.12	206.05	206.05	14.15	549.10	307.00	2.27	SF(Lo)
7400.00	6925.85	0.00	0.00	6956.85	207.80	207.80	13.44	468.34	225.03	1.92	SF(Lo)
7500.00	6972.28	0.00	0.00	7003.28	209.21	209.21	13.95	380.40	135.69	1.55	SF(Lo)
7600.00	7006.50	0.00	0.00	7037.50	210.25	210.25	16.80	286.91	41.14	1.17	SF(Med)
7700.00	7027.86	0.00	0.00	7058.86	210.90	210.90	27.98	189.61	-56.60	0.77	SF(Hi)
7800.00	7035.93	0.00	0.00	7066.93	211.14	211.14	82.79	90.39	-154.91	0.37	SF(Hi)
7900.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	13.73	-235.42	0.06	SF(Hi); CC (Hi)
8000.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	110.48	-137.04	0.45	SF(Hi)
8100.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	210.29	-36.28	0.85	SF(Hi)
8200.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	310.23	63.74	1.26	SF(Med)
8300.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	410.19	163.64	1.66	SF(Lo)
8400.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	510.17	263.65	2.07	SF(Lo)
8500.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	610.16	363.54	2.47	SF(Lo)
8600.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	710.15	463.54	2.88	
8700.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	810.14	563.64	3.29	
8800.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	910.14	663.53	3.69	
8900.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	1010.13	763.54	4.10	
9000.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	1110.13	863.60	4.50	
9100.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	1210.12	963.66	4.91	
9200.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	1310.12	1063.60	5.31	
9300.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	1410.12	1163.54	5.72	
9400.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	1510.12	1263.49	6.12	
9500.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	1610.12	1363.45	6.53	
9600.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	1710.11	1463.42	6.93	
9700.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	1810.11	1563.40	7.34	
9800.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	1910.11	1663.38	7.74	
9900.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	2010.11	1763.38	8.15	
10000.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	2110.11	1863.39	8.55	
10100.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	2210.11	1963.41	8.96	
10200.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	2310.11	2063.47	9.37	
10300.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	2410.11	2163.49	9.77	
10400.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	2510.11	2263.42	10.18	
10500.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	2610.11	2363.40	10.58	
10600.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	2710.10	2463.43	10.99	
10700.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	2810.10	2563.50	11.40	
10800.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	2910.10	2663.38	11.80	
10900.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	3010.10	2763.31	12.20	
11000.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	3110.10	2863.35	12.60	
11100.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	3210.10	2963.31	13.01	
11200.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	3310.10	3063.23	13.41	
11300.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	3410.10	3163.26	13.82	
11400.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	3510.10	3263.33	14.22	
11500.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	3610.10	3363.24	14.62	
11600.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	3710.10	3463.24	15.03	
11700.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	3810.10	3563.22	15.43	
11800.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	3910.10	3663.25	15.84	
11900.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	4010.10	3763.25	16.25	
12000.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	4110.10	3863.18	16.65	
12100.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	4210.10	3963.14	17.05	
12200.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	4310.10	4063.11	17.45	
12300.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	4410.10	4163.10	17.85	
12400.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	4510.10	4263.09	18.26	
12500.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	4610.10	4363.07	18.66	

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
12600.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	4710.10	4463.05	19.07	
12700.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	4810.10	4563.04	19.47	
12800.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	4910.10	4663.03	19.87	
12900.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	5010.10	4763.02	20.28	
13000.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	5110.10	4863.02	20.68	
13100.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	5210.10	4963.02	21.09	
13200.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	5310.10	5063.01	21.49	
13300.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	5410.10	5163.01	21.90	
13400.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	5510.10	5263.00	22.30	
13500.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	5610.10	5363.00	22.70	
13600.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	5710.10	5462.99	23.11	
13700.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	5810.10	5562.96	23.51	
13800.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	5910.10	5662.93	23.91	
13900.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	6010.10	5762.90	24.31	
14000.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	6110.10	5862.87	24.71	
14100.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	6210.10	5962.84	25.12	
14200.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	6310.10	6062.81	25.52	
14300.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	6410.10	6162.78	25.92	
14400.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	6510.10	6262.75	26.32	
14500.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	6610.10	6362.72	26.72	
14600.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	6710.10	6462.69	27.12	
14700.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	6810.10	6562.66	27.52	
14800.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	6910.10	6662.64	27.92	
14900.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	7010.09	6762.61	28.33	
15000.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	7110.09	6862.58	28.73	
15100.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	7210.09	6962.55	29.13	
15200.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	7310.09	7062.52	29.53	
15300.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	7410.09	7162.49	29.93	
15400.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	7510.09	7262.47	30.33	
15500.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	7610.09	7362.44	30.73	
15600.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	7710.09	7462.41	31.13	
15700.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	7810.09	7562.38	31.53	
15701.00	7036.00	0.00	0.00	7067.00	211.14	211.14	90.00	7811.09	7563.38	31.53	
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	236.06	3794.61	3793.88	5211.69	
100.00	70.00	0.00	0.00	100.00	1.06	1.06	236.06	3794.49	3792.60	1999.55	
200.00	170.00	0.00	0.00	200.00	2.63	2.63	236.06	3794.49	3790.81	1029.42	
300.00	270.00	0.00	0.00	300.00	5.67	5.67	236.06	3794.49	3787.55	546.76	
400.00	370.00	0.00	0.00	400.00	8.71	8.71	236.06	3794.49	3784.30	372.23	
500.00	470.00	0.00	0.00	500.00	11.74	11.74	236.06	3794.49	3781.22	285.82	
600.00	570.00	0.00	0.00	600.00	14.78	14.78	236.06	3794.49	3777.96	229.55	
700.00	669.98	0.00	0.00	699.98	17.82	17.82	97.90	3794.73	3774.97	192.01	
800.00	769.84	0.00	0.00	799.84	20.85	20.85	97.96	3795.46	3772.48	165.19	
900.00	869.45	0.00	0.00	899.45	23.87	23.87	98.07	3796.68	3770.46	144.84	
1000.00	968.70	0.00	0.00	998.70	26.89	26.89	98.21	3798.41	3768.94	128.87	
1100.00	1067.47	0.00	0.00	1097.47	29.89	29.89	98.40	3800.70	3767.94	116.01	
1200.00	1165.62	0.00	0.00	1195.62	32.87	32.87	98.62	3803.58	3767.49	105.40	
1300.00	1263.06	0.00	0.00	1293.06	35.83	35.83	98.88	3807.09	3767.65	96.53	
1400.00	1359.64	0.00	0.00	1389.64	38.76	38.76	99.17	3811.29	3768.44	88.95	
1500.00	1455.27	0.00	0.00	1485.27	41.66	41.66	99.48	3816.23	3769.95	82.44	
1600.00	1549.86	0.00	0.00	1579.86	44.54	44.54	99.86	3821.98	3772.21	76.80	
1700.00	1644.14	0.00	0.00	1674.14	47.40	47.40	100.32	3828.16	3774.90	71.88	
1800.00	1738.42	0.00	0.00	1768.42	50.26	50.26	100.78	3834.62	3777.85	67.55	
1900.00	1832.70	0.00	0.00	1862.70	53.13	53.13	101.24	3841.36	3781.08	63.73	
2000.00	1926.98	0.00	0.00	1956.98	55.99	55.99	101.70	3848.38	3784.58	60.33	

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
2100.00	2021.26	0.00	0.00	2051.26	58.85	58.85	102.16	3855.67	3788.36	57.29	
2200.00	2115.54	0.00	0.00	2145.54	61.72	61.72	102.62	3863.23	3792.41	54.55	
2300.00	2209.83	0.00	0.00	2239.83	64.58	64.58	103.08	3871.07	3796.74	52.08	
2400.00	2304.11	0.00	0.00	2334.11	67.44	67.44	103.53	3879.18	3801.35	49.84	
2500.00	2398.39	0.00	0.00	2428.39	70.31	70.31	103.98	3887.55	3806.23	47.81	
2600.00	2492.67	0.00	0.00	2522.67	73.17	73.17	104.43	3896.20	3811.39	45.94	
2700.00	2586.95	0.00	0.00	2616.95	76.03	76.03	104.88	3905.11	3816.82	44.23	
2800.00	2681.23	0.00	0.00	2711.23	78.89	78.89	105.33	3914.28	3822.53	42.66	
2900.00	2775.51	0.00	0.00	2805.51	81.76	81.76	105.77	3923.71	3828.50	41.21	
3000.00	2869.79	0.00	0.00	2899.79	84.62	84.62	106.21	3933.41	3834.67	39.84	
3100.00	2964.08	0.00	0.00	2994.08	87.48	87.48	106.65	3943.36	3841.06	38.55	
3200.00	3058.36	0.00	0.00	3088.36	90.35	90.35	107.09	3953.57	3847.71	37.35	
3300.00	3152.64	0.00	0.00	3182.64	93.21	93.21	107.53	3964.03	3854.63	36.23	
3400.00	3246.92	0.00	0.00	3276.92	96.07	96.07	107.96	3974.74	3861.80	35.19	
3500.00	3341.20	0.00	0.00	3371.20	98.94	98.94	108.40	3985.71	3869.23	34.22	
3600.00	3435.48	0.00	0.00	3465.48	101.80	101.80	108.83	3996.92	3876.91	33.30	
3700.00	3529.76	0.00	0.00	3559.76	104.66	104.66	109.25	4008.38	3884.85	32.45	
3800.00	3624.04	0.00	0.00	3654.04	107.53	107.53	109.68	4020.08	3893.04	31.64	
3900.00	3718.33	0.00	0.00	3748.33	110.39	110.39	110.10	4032.02	3901.48	30.89	
4000.00	3812.61	0.00	0.00	3842.61	113.25	113.25	110.53	4044.21	3910.17	30.17	
4100.00	3906.89	0.00	0.00	3936.89	116.12	116.12	110.94	4056.63	3919.11	29.50	
4200.00	4001.17	0.00	0.00	4031.17	118.98	118.98	111.36	4069.28	3928.29	28.86	
4300.00	4095.45	0.00	0.00	4125.45	121.84	121.84	111.78	4082.17	3937.72	28.26	
4400.00	4189.73	0.00	0.00	4219.73	124.71	124.71	112.19	4095.29	3947.39	27.69	
4500.00	4284.01	0.00	0.00	4314.01	127.57	127.57	112.60	4108.63	3957.30	27.15	
4600.00	4378.30	0.00	0.00	4408.30	130.43	130.43	113.00	4122.21	3967.45	26.64	
4700.00	4472.58	0.00	0.00	4502.58	133.30	133.30	113.41	4136.01	3977.83	26.15	
4800.00	4566.86	0.00	0.00	4596.86	136.16	136.16	113.81	4150.03	3988.46	25.69	
4900.00	4661.14	0.00	0.00	4691.14	139.02	139.02	114.21	4164.26	3999.31	25.24	
5000.00	4755.42	0.00	0.00	4785.42	141.89	141.89	114.61	4178.72	4010.40	24.83	
5100.00	4849.70	0.00	0.00	4879.70	144.75	144.75	115.00	4193.39	4021.71	24.43	
5200.00	4943.98	0.00	0.00	4973.98	147.61	147.61	115.39	4208.28	4033.25	24.04	
5300.00	5038.26	0.00	0.00	5068.26	150.47	150.47	115.78	4223.37	4044.87	23.66	
5400.00	5132.55	0.00	0.00	5162.55	153.34	153.34	116.17	4238.68	4056.67	23.29	
5500.00	5226.83	0.00	0.00	5256.83	156.20	156.20	116.56	4254.19	4068.69	22.93	
5600.00	5321.11	0.00	0.00	5351.11	159.06	159.06	116.94	4269.90	4080.92	22.59	
5700.00	5415.39	0.00	0.00	5445.39	161.93	161.93	117.32	4285.81	4093.36	22.27	
5800.00	5509.67	0.00	0.00	5539.67	164.79	164.79	117.69	4301.93	4106.01	21.96	
5900.00	5603.95	0.00	0.00	5633.95	167.65	167.65	118.07	4318.24	4118.87	21.66	
6000.00	5698.23	0.00	0.00	5728.23	170.52	170.52	118.44	4334.75	4131.93	21.37	
6100.00	5792.51	0.00	0.00	5822.51	173.38	173.38	118.81	4351.45	4145.20	21.10	
6200.00	5886.80	0.00	0.00	5916.80	176.24	176.24	119.18	4368.34	4158.67	20.83	
6300.00	5981.08	0.00	0.00	6011.08	179.11	179.11	119.54	4385.41	4172.32	20.58	
6400.00	6075.36	0.00	0.00	6105.36	181.97	181.97	119.90	4402.68	4186.17	20.33	
6500.00	6169.64	0.00	0.00	6199.64	184.83	184.83	120.26	4420.13	4200.21	20.10	
6600.00	6264.46	0.00	0.00	6294.46	187.71	187.71	106.57	4434.70	4211.44	19.86	
6700.00	6360.71	0.00	0.00	6390.71	190.64	190.64	79.21	4436.41	4209.91	19.59	
6800.00	6456.67	0.00	0.00	6486.67	193.55	193.55	53.54	4424.44	4194.78	19.27	
6900.00	6550.49	0.00	0.00	6580.49	196.40	196.40	36.69	4398.99	4166.29	18.90	
7000.00	6640.33	0.00	0.00	6670.33	199.13	199.13	26.56	4360.51	4124.96	18.51	
7100.00	6724.45	0.00	0.00	6754.45	201.68	201.68	20.12	4309.74	4071.55	18.09	
7200.00	6801.21	0.00	0.00	6831.21	204.01	204.01	15.63	4247.61	4007.04	17.66	
7300.00	6869.12	0.00	0.00	6899.12	206.08	206.08	12.10	4175.31	3932.65	17.21	
7400.00	6926.85	0.00	0.00	6956.85	207.83	207.83	8.80	4094.22	3849.79	16.75	
7500.00	6973.28	0.00	0.00	7003.28	209.24	209.24	4.91	4005.88	3760.03	16.29	
7600.00	7007.50	0.00	0.00	7037.50	210.28	210.28	358.59	3912.02	3665.12	15.84	
7700.00	7028.86	0.00	0.00	7058.86	210.93	210.93	342.57	3814.45	3566.89	15.41	
7800.00	7036.93	0.00	0.00	7066.93	211.17	211.17	279.01	3715.07	3467.27	14.99	

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
7900.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	3615.47	3367.70	14.59	
8000.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	3515.90	3268.19	14.19	
8100.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	3416.36	3168.81	13.80	
8200.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	3316.84	3069.22	13.39	
8300.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	3217.35	2969.80	13.00	
8400.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	3117.90	2870.39	12.60	
8500.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	3018.48	2771.08	12.20	
8600.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	2919.10	2671.73	11.80	
8700.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	2819.77	2572.49	11.40	
8800.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	2720.48	2473.24	11.00	
8900.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	2621.25	2374.11	10.61	
9000.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	2522.07	2275.06	10.21	
9100.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	2422.97	2176.06	9.81	
9200.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	2323.94	2077.14	9.42	
9300.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	2225.00	1978.25	9.02	
9400.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	2126.16	1879.44	8.62	
9500.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	2027.44	1780.73	8.22	
9600.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	1928.84	1682.15	7.82	
9700.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	1830.40	1583.73	7.42	
9800.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	1732.13	1485.51	7.02	
9900.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	1634.08	1387.52	6.63	
10000.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	1536.27	1289.76	6.23	
10100.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	1438.77	1191.67	5.82	
10200.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	1341.64	1093.87	5.41	
10300.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	1244.96	996.50	5.01	
10400.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	1148.84	899.42	4.61	
10500.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	1053.46	802.77	4.20	
10600.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	959.01	706.88	3.80	
10700.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	865.81	611.81	3.41	
10800.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	774.31	516.37	3.00	
10900.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	685.19	422.77	2.61	
11000.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	599.51	331.15	2.23	SF(Lo)
11100.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	518.97	241.76	1.87	SF(Lo)
11200.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	446.39	157.60	1.55	SF(Lo)
11300.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	386.25	83.11	1.27	SF(Med)
11400.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	345.13	28.76	1.09	SF(Med)
11500.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	330.22	3.17	1.01	SF(Med)
11600.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	344.92	17.13	1.05	SF(Med)
11700.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	385.87	65.33	1.20	SF(Med)
11800.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	445.90	134.65	1.43	SF(Med)
11900.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	518.42	215.59	1.71	SF(Lo)
12000.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	598.90	303.25	2.03	SF(Lo)
12100.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	684.55	395.30	2.37	SF(Lo)
12200.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	773.65	489.09	2.72	
12300.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	865.14	584.46	3.08	
12400.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	958.33	681.17	3.46	
12500.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	1052.77	778.58	3.84	
12600.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	1148.15	876.03	4.22	
12700.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	1244.26	973.72	4.60	
12800.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	1340.93	1071.85	4.98	
12900.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	1438.06	1170.33	5.37	
13000.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	1535.56	1269.06	5.76	
13100.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	1633.37	1367.98	6.15	
13200.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	1731.42	1466.92	6.55	
13300.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	1829.68	1566.00	6.94	
13400.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	1928.12	1665.20	7.33	
13500.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	2026.72	1764.48	7.73	
13600.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	2125.45	1863.84	8.12	

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
13700.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	2224.29	1963.28	8.52	
13800.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	2323.23	2062.77	8.92	
13900.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	2422.25	2162.31	9.32	
14000.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	2521.35	2261.79	9.71	
14100.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	2620.53	2361.22	10.11	
14200.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	2719.76	2460.70	10.50	
14300.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	2819.04	2560.22	10.89	
14400.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	2918.38	2659.78	11.29	
14500.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	3017.76	2759.37	11.68	
14600.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	3117.18	2858.98	12.07	
14700.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	3216.63	2958.62	12.47	
14800.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	3316.12	3058.29	12.86	
14900.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	3415.64	3157.97	13.26	
15000.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	3515.18	3257.64	13.65	
15100.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	3614.75	3357.32	14.04	
15200.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	3714.35	3457.02	14.43	
15300.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	3813.96	3556.73	14.83	
15400.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	3913.59	3656.45	15.22	
15500.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	4013.25	3756.19	15.61	
15600.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	4112.92	3855.95	16.01	
15700.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	4212.60	3955.71	16.40	
15701.00	7037.00	0.00	0.00	7067.00	211.17	211.17	270.00	4213.59	3956.70	16.40	
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	144.70	2050.16	2049.39	2663.38	
100.00	69.00	0.00	0.00	100.00	1.05	1.05	144.70	2049.93	2048.01	1065.98	
200.00	169.00	0.00	0.00	200.00	2.60	2.60	144.70	2049.93	2046.24	554.86	
300.00	269.00	0.00	0.00	300.00	5.64	5.64	144.70	2049.93	2042.98	295.16	
400.00	369.00	0.00	0.00	400.00	8.68	8.68	144.70	2049.93	2039.73	201.06	
500.00	469.00	0.00	0.00	500.00	11.71	11.71	144.70	2049.93	2036.48	152.45	
600.00	569.00	0.00	0.00	600.00	14.75	14.75	144.70	2049.93	2033.40	124.05	
700.00	668.98	0.00	0.00	699.98	17.79	17.79	6.53	2048.20	2028.44	103.67	
800.00	768.84	0.00	0.00	799.84	20.82	20.82	6.56	2043.00	2020.03	88.96	
900.00	868.45	0.00	0.00	899.45	23.84	23.84	6.60	2034.34	2008.15	77.69	
1000.00	967.70	0.00	0.00	998.70	26.86	26.86	6.67	2022.23	1992.83	68.77	
1100.00	1066.47	0.00	0.00	1097.47	29.86	29.86	6.76	2006.69	1974.08	61.53	
1200.00	1164.62	0.00	0.00	1195.62	32.84	32.84	6.87	1987.74	1951.93	55.50	
1300.00	1262.06	0.00	0.00	1293.06	35.80	35.80	7.01	1965.41	1926.41	50.39	
1400.00	1358.64	0.00	0.00	1389.64	38.73	38.73	7.17	1939.71	1897.54	45.99	
1500.00	1454.27	0.00	0.00	1485.27	41.63	41.63	7.35	1910.69	1865.34	42.13	
1600.00	1548.86	0.00	0.00	1579.86	44.51	44.51	7.54	1878.50	1830.00	38.74	
1700.00	1643.14	0.00	0.00	1674.14	47.37	47.37	7.68	1845.42	1793.79	35.74	
1800.00	1737.42	0.00	0.00	1768.42	50.23	50.23	7.82	1812.36	1757.59	33.09	
1900.00	1831.70	0.00	0.00	1862.70	53.10	53.10	7.97	1779.31	1721.40	30.72	
2000.00	1925.98	0.00	0.00	1956.98	55.96	55.96	8.12	1746.27	1685.20	28.60	
2100.00	2020.26	0.00	0.00	2051.26	58.82	58.82	8.27	1713.24	1649.01	26.67	
2200.00	2114.54	0.00	0.00	2145.54	61.69	61.69	8.44	1680.22	1612.83	24.93	
2300.00	2208.83	0.00	0.00	2239.83	64.55	64.55	8.61	1647.22	1576.65	23.34	
2400.00	2303.11	0.00	0.00	2334.11	67.41	67.41	8.78	1614.23	1540.49	21.89	
2500.00	2397.39	0.00	0.00	2428.39	70.27	70.27	8.97	1581.25	1504.34	20.56	
2600.00	2491.67	0.00	0.00	2522.67	73.14	73.14	9.16	1548.29	1468.20	19.33	
2700.00	2585.95	0.00	0.00	2616.95	76.00	76.00	9.36	1515.35	1432.07	18.20	
2800.00	2680.23	0.00	0.00	2711.23	78.86	78.86	9.57	1482.42	1395.95	17.14	
2900.00	2774.51	0.00	0.00	2805.51	81.73	81.73	9.79	1449.51	1359.84	16.17	
3000.00	2868.79	0.00	0.00	2899.79	84.59	84.59	10.02	1416.62	1323.75	15.25	
3100.00	2963.08	0.00	0.00	2994.08	87.45	87.45	10.26	1383.75	1287.68	14.40	

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
3200.00	3057.36	0.00	0.00	3088.36	90.32	90.32	10.51	1350.90	1251.62	13.61	
3300.00	3151.64	0.00	0.00	3182.64	93.18	93.18	10.77	1318.08	1215.59	12.86	
3400.00	3245.92	0.00	0.00	3276.92	96.04	96.04	11.05	1285.29	1179.58	12.16	
3500.00	3340.20	0.00	0.00	3371.20	98.91	98.91	11.34	1252.52	1143.60	11.50	
3600.00	3434.48	0.00	0.00	3465.48	101.77	101.77	11.65	1219.78	1107.65	10.88	
3700.00	3528.76	0.00	0.00	3559.76	104.63	104.63	11.97	1187.08	1071.73	10.29	
3800.00	3623.04	0.00	0.00	3654.04	107.50	107.50	12.31	1154.41	1035.84	9.74	
3900.00	3717.33	0.00	0.00	3748.33	110.36	110.36	12.68	1121.79	1000.00	9.21	
4000.00	3811.61	0.00	0.00	3842.61	113.22	113.22	13.06	1089.20	964.19	8.71	
4100.00	3905.89	0.00	0.00	3936.89	116.09	116.09	13.47	1056.66	928.44	8.24	
4200.00	4000.17	0.00	0.00	4031.17	118.95	118.95	13.90	1024.17	892.74	7.79	
4300.00	4094.45	0.00	0.00	4125.45	121.81	121.81	14.36	991.74	857.09	7.36	
4400.00	4188.73	0.00	0.00	4219.73	124.68	124.68	14.85	959.37	821.48	6.96	
4500.00	4283.01	0.00	0.00	4314.01	127.54	127.54	15.38	927.07	785.94	6.57	
4600.00	4377.30	0.00	0.00	4408.30	130.40	130.40	15.94	894.85	750.49	6.20	
4700.00	4471.58	0.00	0.00	4502.58	133.27	133.27	16.55	862.70	715.13	5.85	
4800.00	4565.86	0.00	0.00	4596.86	136.13	136.13	17.20	830.66	679.88	5.51	
4900.00	4660.14	0.00	0.00	4691.14	138.99	138.99	17.90	798.71	644.70	5.19	
5000.00	4754.42	0.00	0.00	4785.42	141.85	141.85	18.66	766.89	609.40	4.87	
5100.00	4848.70	0.00	0.00	4879.70	144.72	144.72	19.49	735.20	574.23	4.57	
5200.00	4942.98	0.00	0.00	4973.98	147.58	147.58	20.39	703.66	539.19	4.28	
5300.00	5037.26	0.00	0.00	5068.26	150.44	150.44	21.37	672.29	504.27	4.00	
5400.00	5131.55	0.00	0.00	5162.55	153.31	153.31	22.45	641.12	469.55	3.74	
5500.00	5225.83	0.00	0.00	5256.83	156.17	156.17	23.63	610.18	435.08	3.48	
5600.00	5320.11	0.00	0.00	5351.11	159.03	159.03	24.94	579.51	400.91	3.24	
5700.00	5414.39	0.00	0.00	5445.39	161.90	161.90	26.39	549.15	367.12	3.02	
5800.00	5508.67	0.00	0.00	5539.67	164.76	164.76	28.01	519.15	333.73	2.80	
5900.00	5602.95	0.00	0.00	5633.95	167.62	167.62	29.81	489.58	300.03	2.58	
6000.00	5697.23	0.00	0.00	5728.23	170.49	170.49	31.84	460.53	266.80	2.38	SF(Lo)
6100.00	5791.51	0.00	0.00	5822.51	173.35	173.35	34.13	432.09	234.31	2.18	SF(Lo)
6200.00	5885.80	0.00	0.00	5916.80	176.21	176.21	36.73	404.40	202.75	2.01	SF(Lo)
6300.00	5980.08	0.00	0.00	6011.08	179.08	179.08	39.69	377.63	171.66	1.83	SF(Lo)
6400.00	6074.36	0.00	0.00	6105.36	181.94	181.94	43.07	351.98	141.09	1.67	SF(Lo)
6500.00	6168.64	0.00	0.00	6199.64	184.80	184.80	46.93	327.71	112.51	1.52	SF(Lo)
6600.00	6263.46	0.00	0.00	6294.46	187.68	187.68	35.45	304.47	84.41	1.38	SF(Med)
6700.00	6359.71	0.00	0.00	6390.71	190.61	190.61	7.69	279.48	55.41	1.25	SF(Med)
6800.00	6455.67	0.00	0.00	6486.67	193.52	193.52	338.74	251.89	25.15	1.11	SF(Med)
6900.00	6549.49	0.00	0.00	6580.49	196.37	196.37	314.84	222.92	-4.59	0.98	SF(Hi)
7000.00	6639.33	0.00	0.00	6670.33	199.10	199.10	293.39	197.04	-29.36	0.87	SF(Hi)
7100.00	6723.45	0.00	0.00	6754.45	201.65	201.65	272.63	183.44	-40.63	0.82	SF(Hi)
7200.00	6800.21	0.00	0.00	6831.21	203.98	203.98	254.27	193.79	-30.41	0.86	SF(Hi)
7300.00	6868.12	0.00	0.00	6899.12	206.05	206.05	240.45	232.74	2.94	1.01	SF(Med)
7400.00	6925.85	0.00	0.00	6956.85	207.80	207.80	231.50	294.99	59.10	1.25	SF(Med)
7500.00	6972.28	0.00	0.00	7003.28	209.21	209.21	226.91	373.05	133.36	1.56	SF(Lo)
7600.00	7006.50	0.00	0.00	7037.50	210.25	210.25	226.89	461.35	218.52	1.90	SF(Lo)
7700.00	7027.86	0.00	0.00	7058.86	210.90	210.90	234.48	556.03	311.93	2.28	SF(Lo)
7800.00	7035.93	0.00	0.00	7066.93	211.14	211.14	264.45	654.18	409.66	2.68	
7900.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	753.39	508.20	3.07	
8000.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	852.78	607.13	3.47	
8100.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	952.30	706.41	3.87	
8200.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	1051.92	805.66	4.27	
8300.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	1151.60	905.15	4.67	
8400.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	1251.33	1004.73	5.07	
8500.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	1351.10	1104.45	5.48	
8600.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	1450.90	1204.13	5.88	
8700.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	1550.73	1303.81	6.28	
8800.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	1650.58	1403.66	6.68	
8900.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	1750.44	1503.48	7.09	

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
9000.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	1850.32	1603.26	7.49	
9100.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	1950.22	1703.10	7.89	
9200.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	2050.12	1802.96	8.29	
9300.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	2150.03	1902.82	8.70	
9400.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	2249.95	2002.70	9.10	
9500.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	2349.88	2102.60	9.50	
9600.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	2449.81	2202.51	9.91	
9700.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	2549.75	2302.43	10.31	
9800.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	2649.69	2402.31	10.71	
9900.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	2749.64	2502.21	11.11	
10000.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	2849.59	2602.12	11.51	
10100.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	2949.54	2702.06	11.92	
10200.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	3049.50	2802.03	12.32	
10300.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	3149.46	2901.99	12.73	
10400.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	3249.42	3001.85	13.12	
10500.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	3349.39	3101.74	13.53	
10600.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	3449.35	3201.69	13.93	
10700.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	3549.32	3301.72	14.33	
10800.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	3649.29	3401.63	14.74	
10900.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	3749.26	3501.54	15.13	
11000.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	3849.24	3601.55	15.54	
11100.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	3949.21	3701.58	15.95	
11200.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	4049.19	3801.48	16.35	
11300.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	4149.16	3901.42	16.75	
11400.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	4249.14	4001.43	17.15	
11500.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	4349.12	4101.34	17.55	
11600.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	4449.10	4201.24	17.95	
11700.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	4549.08	4301.21	18.35	
11800.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	4649.06	4401.22	18.76	
11900.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	4749.05	4501.24	19.16	
12000.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	4849.03	4601.24	19.57	
12100.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	4949.01	4701.15	19.97	
12200.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	5049.00	4801.07	20.37	
12300.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	5148.98	4901.01	20.76	
12400.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	5248.97	5000.97	21.17	
12500.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	5348.95	5100.93	21.57	
12600.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	5448.94	5200.90	21.97	
12700.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	5548.93	5300.88	22.37	
12800.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	5648.92	5400.84	22.77	
12900.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	5748.90	5500.80	23.17	
13000.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	5848.89	5600.76	23.57	
13100.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	5948.88	5700.73	23.97	
13200.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	6048.87	5800.69	24.37	
13300.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	6148.86	5900.66	24.77	
13400.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	6248.85	6000.63	25.18	
13500.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	6348.84	6100.61	25.58	
13600.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	6448.83	6200.58	25.98	
13700.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	6548.82	6300.55	26.38	
13800.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	6648.81	6400.53	26.78	
13900.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	6748.80	6500.50	27.18	
14000.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	6848.80	6600.48	27.58	
14100.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	6948.79	6700.45	27.98	
14200.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	7048.78	6800.42	28.38	
14300.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	7148.77	6900.40	28.78	
14400.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	7248.77	7000.37	29.18	
14500.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	7348.76	7100.34	29.58	
14600.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	7448.75	7200.31	29.98	
14700.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	7548.74	7300.27	30.38	

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
14800.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	7648.74	7400.24	30.78	
14900.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	7748.73	7500.21	31.18	
15000.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	7848.72	7600.17	31.58	
15100.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	7948.72	7700.14	31.98	
15200.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	8048.71	7800.11	32.38	
15300.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	8148.71	7900.07	32.77	
15400.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	8248.70	8000.04	33.17	
15500.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	8348.69	8100.01	33.57	
15600.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	8448.69	8199.97	33.97	
15700.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	8548.68	8299.94	34.37	
15701.00	7036.00	0.00	0.00	7067.00	211.14	211.14	270.00	8549.68	8300.93	34.37	

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	359.99	179.97	179.24	245.42	
100.00	100.00	0.00	0.00	100.00	0.11	0.11	359.99	179.97	179.02	188.66	
200.00	200.00	0.00	0.00	200.00	0.34	0.34	359.99	179.97	178.57	128.23	
300.00	300.00	0.00	0.00	300.00	0.56	0.56	359.99	179.97	178.12	97.12	
400.00	400.00	0.00	0.00	400.00	0.79	0.79	359.99	179.97	177.67	78.16	
500.00	500.00	0.00	0.00	500.00	1.01	1.01	359.99	179.97	177.22	65.39	
600.00	600.00	0.00	0.00	600.00	1.24	1.24	359.99	179.97	176.77	56.21	
700.00	699.98	0.00	0.00	699.98	1.46	1.46	221.46	181.27	177.65	50.04	
800.00	799.84	0.00	0.00	799.84	1.69	1.69	220.44	185.23	181.19	45.84	
900.00	899.45	0.00	0.00	899.45	1.91	1.91	218.84	191.95	187.48	42.94	
1000.00	998.70	0.00	0.00	998.70	2.13	2.13	216.79	201.61	196.69	40.99	
1100.00	1097.47	0.00	0.00	1097.47	2.35	2.35	214.44	214.38	208.99	39.78	
1200.00	1195.62	0.00	0.00	1195.62	2.58	2.58	211.94	230.44	224.58	39.31	
1300.00	1293.06	0.00	0.00	1293.06	2.79	2.79	209.42	249.92	243.57	39.36	
1400.00	1389.64	0.00	0.00	1389.64	3.01	3.01	206.98	272.91	266.06	39.86	
1500.00	1485.27	0.00	0.00	1485.27	3.23	3.23	204.69	299.44	292.08	40.67	
1600.00	1579.86	0.00	0.00	1579.86	3.44	3.44	202.53	329.42	321.56	41.89	
1700.00	1674.14	0.00	0.00	1674.14	3.65	3.65	200.51	360.67	352.31	43.13	
1800.00	1768.42	0.00	0.00	1768.42	3.86	3.86	198.82	392.26	383.42	44.36	
1900.00	1864.91	1.30	78.00	1864.91	4.07	4.07	197.44	423.95	414.62	45.41	
2000.00	1963.36	3.27	78.00	1963.27	4.28	4.27	196.64	455.08	445.24	46.23	
2100.00	2062.60	5.25	78.00	2062.23	4.49	4.47	196.35	485.45	475.08	46.81	
2200.00	2162.41	7.25	78.00	2161.44	4.72	4.66	196.49	515.01	504.10	47.21	
2300.00	2262.55	9.25	78.00	2260.55	4.96	4.86	196.98	543.77	532.25	47.21	
2400.00	2362.79	11.26	78.00	2359.17	5.23	5.06	197.78	571.80	559.63	46.98	
2500.00	2462.86	13.26	78.00	2456.96	5.54	5.25	198.84	599.21	586.34	46.56	
2600.00	2562.54	15.25	78.00	2553.57	5.88	5.45	200.12	626.15	612.50	45.88	
2700.00	2661.49	17.19	78.00	2648.57	6.27	5.65	201.58	652.78	638.28	45.04	
2800.00	2756.46	17.19	78.00	2739.30	6.70	5.87	203.02	679.54	664.14	44.13	
2900.00	2851.43	17.19	78.00	2830.02	7.14	6.11	204.34	706.67	690.33	43.24	
3000.00	2946.40	17.19	78.00	2920.75	7.61	6.34	205.57	734.14	716.83	42.42	
3100.00	3041.37	17.19	78.00	3011.48	8.09	6.58	206.71	761.91	743.62	41.67	
3200.00	3136.34	17.19	78.00	3102.21	8.59	6.83	207.78	789.94	770.65	40.95	
3300.00	3231.31	17.19	78.00	3192.94	9.10	7.08	208.77	818.21	797.90	40.28	
3400.00	3326.28	17.19	78.00	3283.67	9.62	7.33	209.70	846.69	825.32	39.61	
3500.00	3421.24	17.19	78.00	3374.40	10.14	7.59	210.56	875.37	852.92	38.99	
3600.00	3516.21	17.19	78.00	3465.12	10.68	7.84	211.37	904.22	880.69	38.42	
3700.00	3611.18	17.19	78.00	3555.85	11.22	8.10	212.14	933.24	908.61	37.90	
3800.00	3706.15	17.19	78.00	3646.58	11.77	8.37	212.86	962.39	936.68	37.42	
3900.00	3801.12	17.19	78.00	3737.31	12.32	8.63	213.53	991.68	964.87	36.99	
4000.00	3896.09	17.19	78.00	3828.04	12.87	8.90	214.17	1021.09	993.19	36.59	
4100.00	3991.06	17.19	78.00	3918.77	13.43	9.16	214.77	1050.61	1021.61	36.22	
4200.00	4086.03	17.19	78.00	4009.50	13.99	9.43	215.34	1080.23	1050.13	35.89	

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
4300.00	4181.00	17.19	78.00	4100.22	14.56	9.70	215.88	1109.95	1078.74	35.57	
4400.00	4275.97	17.19	78.00	4190.95	15.12	9.98	216.39	1139.75	1107.44	35.28	
4500.00	4370.93	17.19	78.00	4281.68	15.69	10.25	216.88	1169.63	1136.22	35.01	
4600.00	4465.90	17.19	78.00	4372.41	16.26	10.52	217.34	1199.58	1165.04	34.73	
4700.00	4560.87	17.19	78.00	4463.14	16.83	10.80	217.78	1229.60	1193.93	34.47	
4800.00	4655.84	17.19	78.00	4553.87	17.41	11.07	218.20	1259.68	1222.88	34.23	
4900.00	4750.81	17.19	78.00	4644.59	17.98	11.35	218.60	1289.83	1251.89	34.00	
5000.00	4845.78	17.19	78.00	4735.32	18.56	11.63	218.98	1320.03	1280.96	33.79	
5100.00	4940.75	17.19	78.00	4826.05	19.14	11.90	219.34	1350.27	1310.08	33.59	
5200.00	5035.72	17.19	78.00	4916.78	19.72	12.18	219.69	1380.57	1339.24	33.40	
5300.00	5130.69	17.19	78.00	5007.51	20.30	12.46	220.02	1410.91	1368.45	33.23	
5400.00	5225.66	17.19	78.00	5098.24	20.88	12.74	220.34	1441.30	1397.70	33.06	
5500.00	5320.62	17.19	78.00	5188.97	21.46	13.02	220.65	1471.72	1426.99	32.90	
5600.00	5415.59	17.19	78.00	5279.69	22.04	13.30	220.94	1502.18	1456.32	32.76	
5700.00	5510.56	17.19	78.00	5370.42	22.63	13.58	221.23	1532.67	1485.68	32.62	
5800.00	5605.53	17.19	78.00	5461.15	23.21	13.86	221.50	1563.20	1515.07	32.48	
5900.00	5700.50	17.19	78.00	5551.88	23.79	14.15	221.76	1593.76	1544.49	32.35	
6000.00	5795.47	17.19	78.00	5642.61	24.38	14.43	222.01	1624.34	1573.93	32.22	
6100.00	5890.44	17.19	78.00	5733.34	24.96	14.71	222.25	1654.96	1603.41	32.10	
6200.00	5985.41	17.19	78.00	5824.07	25.55	15.00	222.48	1685.60	1632.91	31.99	
6300.00	6080.38	17.19	78.00	5914.79	26.14	15.28	222.71	1716.26	1662.43	31.88	
6400.00	6175.35	17.19	78.00	6005.52	26.72	15.56	222.93	1746.95	1691.98	31.78	
6500.00	6270.31	17.19	78.00	6096.25	27.31	15.85	223.14	1777.66	1721.55	31.68	
6600.00	6364.90	17.19	78.00	6186.61	27.90	16.13	207.57	1808.66	1751.46	31.62	
6700.00	6466.29	11.71	73.56	6284.37	28.36	16.42	177.84	1840.56	1782.48	31.69	
6800.00	6575.03	3.84	41.43	6392.05	28.62	16.44	149.97	1872.48	1813.85	31.93	
6900.00	6688.04	6.91	290.11	6504.76	28.68	16.09	131.11	1903.75	1844.91	32.35	
7000.00	6805.80	16.00	276.49	6620.07	28.55	15.34	119.17	1933.71	1875.01	32.94	
7100.00	6928.58	25.73	272.58	6734.66	28.26	14.20	111.22	1961.69	1903.42	33.66	
7200.00	7056.28	35.90	270.68	6844.20	27.90	12.74	105.58	1987.04	1929.41	34.47	
7300.00	7188.36	46.44	269.50	6943.48	27.57	11.14	101.39	2009.17	1952.24	35.29	
7400.00	7323.67	57.24	268.65	7026.96	27.45	9.76	98.19	2027.53	1971.12	35.94	
7500.00	7460.56	68.18	267.99	7089.62	27.67	9.10	95.73	2041.70	1985.23	36.16	
7600.00	7597.01	79.08	267.42	7128.02	28.29	9.55	93.88	2051.40	1994.28	35.92	
7700.00	7731.00	89.79	266.90	7141.00	29.30	10.95	92.55	2056.47	1998.12	35.24	
7800.00	7831.25	90.00	266.89	7141.00	30.33	11.44	92.06	2057.64	1997.52	34.22	
7900.00	7931.25	90.00	266.89	7141.00	31.55	11.93	92.06	2056.92	1994.57	32.99	
8000.00	8031.24	90.00	266.89	7141.00	32.96	12.45	92.06	2056.18	1991.23	31.66	
8100.00	8131.24	90.00	266.89	7141.00	34.54	12.99	92.06	2055.43	1987.56	30.28	
8200.00	8231.24	90.00	266.89	7141.00	36.27	13.54	92.06	2054.69	1983.52	28.87	
8300.00	8331.24	90.00	266.89	7141.00	38.13	14.11	92.06	2053.95	1979.24	27.49	
8400.00	8431.23	90.00	266.89	7141.00	40.09	14.70	92.07	2053.21	1974.72	26.16	
8500.00	8531.23	90.00	266.89	7141.00	42.15	15.30	92.07	2052.47	1970.03	24.90	
8600.00	8631.23	90.00	266.89	7141.00	44.29	15.91	92.07	2051.73	1965.01	23.66	
8700.00	8731.22	90.00	266.89	7141.00	46.51	16.53	92.07	2050.99	1959.94	22.53	
8800.00	8831.22	90.00	266.89	7141.00	48.78	17.16	92.07	2050.25	1954.68	21.45	
8900.00	8931.22	90.00	266.89	7141.00	51.10	17.80	92.07	2049.51	1949.37	20.47	
9000.00	9031.22	90.00	266.89	7141.00	53.47	18.44	92.07	2048.77	1943.97	19.55	
9100.00	9131.21	90.00	266.89	7141.00	55.88	19.09	92.07	2048.02	1938.48	18.70	
9200.00	9231.21	90.00	266.89	7141.00	58.32	19.75	92.07	2047.28	1932.91	17.90	
9300.00	9331.21	90.00	266.89	7141.00	60.80	20.41	92.07	2046.54	1927.27	17.16	
9400.00	9431.21	90.00	266.89	7141.00	63.30	21.08	92.07	2045.80	1921.56	16.47	
9500.00	9531.20	90.00	266.89	7141.00	65.83	21.75	92.07	2045.06	1915.81	15.82	
9600.00	9631.20	90.00	266.89	7141.00	68.37	22.42	92.07	2044.32	1910.00	15.22	
9700.00	9731.20	90.00	266.89	7141.00	70.94	23.10	92.08	2043.58	1904.15	14.66	
9800.00	9831.19	90.00	266.89	7141.00	73.52	23.78	92.08	2042.84	1898.27	14.13	
9900.00	9931.19	90.00	266.89	7141.00	76.12	24.47	92.08	2042.10	1892.35	13.64	
10000.00	10031.19	90.00	266.89	7141.00	78.73	25.16	92.08	2041.36	1886.40	13.17	

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
10100.00	10131.19	90.00	266.89	7141.00	81.36	25.85	92.08	2040.61	1880.42	12.74	
10200.00	10231.18	90.00	266.89	7141.00	83.99	26.54	92.08	2039.87	1874.42	12.33	
10300.00	10331.18	90.00	266.89	7141.00	86.64	27.23	92.08	2039.13	1868.40	11.94	
10400.00	10431.18	90.00	266.89	7141.00	89.29	27.93	92.08	2038.39	1862.36	11.58	
10500.00	10531.18	90.00	266.89	7141.00	91.96	28.63	92.08	2037.65	1856.30	11.24	
10600.00	10631.17	90.00	266.89	7141.00	94.63	29.33	92.08	2036.91	1850.23	10.91	
10700.00	10731.17	90.00	266.89	7141.00	97.31	30.03	92.08	2036.17	1844.14	10.60	
10800.00	10831.17	90.00	266.89	7141.00	99.99	30.73	92.08	2035.43	1838.03	10.31	
10900.00	10931.16	90.00	266.89	7141.00	102.68	31.43	92.08	2034.69	1831.92	10.03	
11000.00	11031.16	90.00	266.89	7141.00	105.38	32.14	92.09	2033.95	1825.79	9.77	
11100.00	11131.16	90.00	266.89	7141.00	108.08	32.85	92.09	2033.21	1819.65	9.52	
11200.00	11231.16	90.00	266.89	7141.00	110.79	33.56	92.09	2032.46	1813.50	9.28	
11300.00	11331.15	90.00	266.89	7141.00	113.50	34.26	92.09	2031.72	1807.34	9.05	
11400.00	11431.15	90.00	266.89	7141.00	116.22	34.97	92.09	2030.98	1801.18	8.84	
11500.00	11531.15	90.00	266.89	7141.00	118.94	35.69	92.09	2030.24	1795.00	8.63	
11600.00	11631.14	90.00	266.89	7141.00	121.66	36.40	92.09	2029.50	1788.82	8.43	
11700.00	11731.14	90.00	266.89	7141.00	124.39	37.11	92.09	2028.76	1782.63	8.24	
11800.00	11831.14	90.00	266.89	7141.00	127.12	37.82	92.09	2028.02	1776.44	8.06	
11900.00	11931.14	90.00	266.89	7141.00	129.85	38.54	92.09	2027.28	1770.24	7.89	
12000.00	12031.13	90.00	266.89	7141.00	132.58	39.25	92.09	2026.54	1764.03	7.72	
12100.00	12131.13	90.00	266.89	7141.00	135.32	39.97	92.09	2025.80	1757.82	7.56	
12200.00	12231.13	90.00	266.89	7141.00	138.06	40.68	92.09	2025.05	1751.60	7.41	
12300.00	12331.13	90.00	266.89	7141.00	140.81	41.40	92.10	2024.31	1745.38	7.26	
12400.00	12431.12	90.00	266.89	7141.00	143.55	42.12	92.10	2023.57	1739.15	7.11	
12500.00	12531.12	90.00	266.89	7141.00	146.30	42.84	92.10	2022.83	1732.92	6.98	
12600.00	12631.12	90.00	266.89	7141.00	149.05	43.56	92.10	2022.09	1726.69	6.85	
12700.00	12731.11	90.00	266.89	7141.00	151.80	44.27	92.10	2021.35	1720.45	6.72	
12800.00	12831.11	90.00	266.89	7141.00	154.55	44.99	92.10	2020.61	1714.21	6.59	
12900.00	12931.11	90.00	266.89	7141.00	157.30	45.71	92.10	2019.87	1707.96	6.48	
13000.00	13031.11	90.00	266.89	7141.00	160.06	46.43	92.10	2019.13	1701.72	6.36	
13100.00	13131.10	90.00	266.89	7141.00	162.82	47.15	92.10	2018.39	1695.46	6.25	
13200.00	13231.10	90.00	266.89	7141.00	165.57	47.88	92.10	2017.65	1689.21	6.14	
13300.00	13331.10	90.00	266.89	7141.00	168.33	48.60	92.10	2016.90	1682.95	6.04	
13400.00	13431.10	90.00	266.89	7141.00	171.09	49.32	92.10	2016.16	1676.69	5.94	
13500.00	13531.09	90.00	266.89	7141.00	173.86	50.04	92.10	2015.42	1670.43	5.84	
13600.00	13631.09	90.00	266.89	7141.00	176.62	50.76	92.11	2014.68	1664.17	5.75	
13700.00	13731.09	90.00	266.89	7141.00	179.38	51.49	92.11	2013.94	1657.90	5.66	
13800.00	13831.08	90.00	266.89	7141.00	182.15	52.21	92.11	2013.20	1651.63	5.57	
13900.00	13931.08	90.00	266.89	7141.00	184.92	52.93	92.11	2012.46	1645.36	5.48	
14000.00	14031.08	90.00	266.89	7141.00	187.68	53.66	92.11	2011.72	1639.09	5.40	
14100.00	14131.08	90.00	266.89	7141.00	190.45	54.38	92.11	2010.98	1632.82	5.32	
14200.00	14231.07	90.00	266.89	7141.00	193.22	55.10	92.11	2010.24	1626.54	5.24	
14300.00	14331.07	90.00	266.89	7141.00	195.99	55.83	92.11	2009.49	1620.26	5.16	
14400.00	14431.07	90.00	266.89	7141.00	198.76	56.55	92.11	2008.75	1613.98	5.09	
14500.00	14531.07	90.00	266.89	7141.00	201.53	57.28	92.11	2008.01	1607.70	5.02	
14600.00	14631.06	90.00	266.89	7141.00	204.31	58.00	92.11	2007.27	1601.42	4.95	
14700.00	14731.06	90.00	266.89	7141.00	207.08	58.73	92.11	2006.53	1595.13	4.88	
14800.00	14831.06	90.00	266.89	7141.00	209.85	59.45	92.11	2005.79	1588.85	4.81	
14900.00	14931.05	90.00	266.89	7141.00	212.63	60.18	92.12	2005.05	1582.56	4.75	
15000.00	15031.05	90.00	266.89	7141.00	215.40	60.91	92.12	2004.31	1576.27	4.68	
15100.00	15131.05	90.00	266.89	7141.00	218.18	61.63	92.12	2003.57	1569.99	4.62	
15200.00	15231.05	90.00	266.89	7141.00	220.96	62.36	92.12	2002.83	1563.69	4.56	
15300.00	15331.04	90.00	266.89	7141.00	223.73	63.08	92.12	2002.09	1557.40	4.50	
15400.00	15431.04	90.00	266.89	7141.00	226.51	63.81	92.12	2001.34	1551.11	4.45	
15500.00	15531.04	90.00	266.89	7141.00	229.29	64.54	92.12	2000.60	1544.82	4.39	
15600.00	15631.03	90.00	266.89	7141.00	232.07	65.26	92.12	1999.86	1538.52	4.33	
15700.00	15644.54	90.00	266.89	7141.00	232.44	65.36	92.12	2000.99	1537.29	4.32	
15701.00	15644.54	90.00	266.89	7141.00	232.44	65.36	92.12	2001.03	1537.31	4.32	

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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	359.95	159.93	159.20	218.09	
100.00	100.00	0.00	0.00	100.00	0.11	0.11	359.95	159.93	158.98	167.65	
200.00	200.00	0.00	0.00	200.00	0.34	0.34	359.95	159.93	158.53	113.95	
300.00	300.00	0.00	0.00	300.00	0.56	0.56	359.95	159.93	158.08	86.31	
400.00	400.00	0.00	0.00	400.00	0.79	0.79	359.95	159.93	157.63	69.46	
500.00	500.00	0.00	0.00	500.00	1.01	1.01	359.95	159.93	157.18	58.11	
600.00	600.00	0.00	0.00	600.00	1.24	1.24	359.95	159.93	156.73	49.95	
700.00	699.98	0.00	0.00	699.98	1.46	1.46	221.37	161.24	157.62	44.51	
800.00	799.84	0.00	0.00	799.84	1.69	1.69	220.22	165.20	161.16	40.89	
900.00	899.45	0.00	0.00	899.45	1.91	1.91	218.43	171.96	167.49	38.48	
1000.00	998.70	0.00	0.00	998.70	2.13	2.13	216.16	181.68	176.76	36.92	
1100.00	1097.47	0.00	0.00	1097.47	2.35	2.35	213.60	194.57	189.18	36.10	
1200.00	1195.62	0.00	0.00	1195.62	2.58	2.58	210.91	210.79	204.93	35.98	
1300.00	1293.06	0.00	0.00	1293.06	2.79	2.79	208.24	230.48	224.14	36.34	
1400.00	1389.64	0.00	0.00	1389.64	3.01	3.01	205.70	253.72	246.87	37.08	
1500.00	1485.27	0.00	0.00	1485.27	3.23	3.23	203.35	280.52	273.17	38.18	
1600.00	1579.86	0.00	0.00	1579.86	3.44	3.44	201.16	310.77	302.94	39.66	
1700.00	1674.14	0.00	0.00	1674.14	3.65	3.65	199.16	342.28	333.94	41.09	
1800.00	1768.42	0.00	0.00	1768.42	3.86	3.86	197.49	374.10	365.28	42.41	
1900.00	1862.70	0.00	0.00	1862.70	4.07	4.07	196.08	406.16	396.84	43.60	
2000.00	1956.98	0.00	0.00	1956.98	4.29	4.29	194.88	438.41	428.60	44.70	
2100.00	2054.89	1.10	85.04	2054.89	4.50	4.50	193.87	470.62	460.32	45.69	
2200.00	2156.89	3.14	85.04	2156.81	4.71	4.70	193.30	501.69	490.87	46.36	
2300.00	2260.02	5.20	85.04	2259.67	4.93	4.90	193.18	531.38	520.04	46.82	
2400.00	2364.05	7.28	85.04	2363.07	5.16	5.10	193.44	559.66	547.74	46.96	
2500.00	2468.69	9.37	85.04	2466.61	5.41	5.30	194.02	586.53	574.02	46.89	
2600.00	2573.69	11.47	85.04	2569.86	5.69	5.50	194.89	612.07	598.94	46.59	
2700.00	2678.75	13.58	85.04	2672.42	6.01	5.70	196.02	636.40	622.55	45.97	
2800.00	2783.60	15.67	85.04	2773.86	6.37	5.90	197.37	659.66	645.00	45.00	
2900.00	2887.95	17.76	85.04	2873.80	6.79	6.10	198.92	682.03	666.49	43.87	
3000.00	2987.47	18.74	85.04	2968.18	7.25	6.32	200.55	703.89	687.41	42.73	
3100.00	3083.18	18.74	85.04	3058.82	7.73	6.55	202.05	726.12	708.70	41.67	
3200.00	3178.89	18.74	85.04	3149.45	8.23	6.79	203.46	748.82	730.35	40.54	
3300.00	3274.59	18.74	85.04	3240.09	8.75	7.04	204.80	771.93	752.39	39.50	
3400.00	3370.30	18.74	85.04	3330.72	9.29	7.29	206.05	795.44	774.81	38.56	
3500.00	3466.01	18.74	85.04	3421.36	9.84	7.54	207.24	819.29	797.56	37.71	
3600.00	3561.71	18.74	85.04	3512.00	10.40	7.80	208.36	843.47	820.63	36.94	
3700.00	3657.42	18.74	85.04	3602.63	10.98	8.06	209.42	867.94	843.95	36.18	
3800.00	3753.13	18.74	85.04	3693.27	11.56	8.32	210.42	892.68	867.52	35.48	
3900.00	3848.83	18.74	85.04	3783.90	12.15	8.59	211.37	917.67	891.33	34.84	
4000.00	3944.54	18.74	85.04	3874.54	12.75	8.86	212.27	942.89	915.37	34.27	
4100.00	4040.25	18.74	85.04	3965.17	13.35	9.13	213.12	968.32	939.60	33.72	
4200.00	4135.95	18.74	85.04	4055.81	13.96	9.41	213.94	993.94	964.01	33.21	
4300.00	4231.66	18.74	85.04	4146.44	14.57	9.68	214.71	1019.74	988.61	32.75	
4400.00	4327.37	18.74	85.04	4237.08	15.18	9.96	215.44	1045.72	1013.36	32.32	
4500.00	4423.07	18.74	85.04	4327.71	15.80	10.24	216.14	1071.84	1038.28	31.93	
4600.00	4518.78	18.74	85.04	4418.35	16.42	10.52	216.80	1098.11	1063.33	31.57	
4700.00	4614.49	18.74	85.04	4508.98	17.04	10.80	217.44	1124.51	1088.48	31.21	
4800.00	4710.19	18.74	85.04	4599.62	17.67	11.09	218.04	1151.04	1113.76	30.87	
4900.00	4805.90	18.74	85.04	4690.25	18.30	11.37	218.62	1177.68	1139.15	30.56	
5000.00	4901.61	18.74	85.04	4780.89	18.93	11.66	219.18	1204.44	1164.65	30.27	
5100.00	4997.31	18.74	85.04	4871.52	19.56	11.94	219.70	1231.29	1190.26	30.01	
5200.00	5093.02	18.74	85.04	4962.16	20.19	12.23	220.21	1258.24	1215.95	29.76	
5300.00	5188.73	18.74	85.04	5052.80	20.83	12.52	220.70	1285.27	1241.74	29.53	
5400.00	5284.43	18.74	85.04	5143.43	21.46	12.81	221.17	1312.39	1267.62	29.31	
5500.00	5380.14	18.74	85.04	5234.07	22.10	13.10	221.61	1339.59	1293.57	29.11	
5600.00	5475.85	18.74	85.04	5324.70	22.74	13.39	222.04	1366.86	1319.59	28.92	
5700.00	5571.55	18.74	85.04	5415.34	23.38	13.68	222.46	1394.20	1345.69	28.74	

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
5800.00	5667.26	18.74	85.04	5505.97	24.02	13.98	222.85	1421.61	1371.85	28.57	
5900.00	5762.97	18.74	85.04	5596.61	24.66	14.27	223.24	1449.08	1398.08	28.41	
6000.00	5858.67	18.74	85.04	5687.24	25.30	14.56	223.61	1476.60	1424.36	28.27	
6100.00	5954.38	18.74	85.04	5777.88	25.94	14.86	223.96	1504.18	1450.70	28.13	
6200.00	6050.08	18.74	85.04	5868.51	26.58	15.15	224.30	1531.81	1477.09	27.99	
6300.00	6145.79	18.74	85.04	5959.15	27.23	15.45	224.63	1559.49	1503.54	27.87	
6400.00	6249.22	15.17	84.62	6057.51	27.85	15.79	224.93	1587.13	1529.93	27.74	
6500.00	6365.36	5.90	81.25	6171.57	28.26	15.94	224.69	1613.81	1555.64	27.74	
6600.00	6478.17	3.20	276.76	6284.22	28.40	15.69	208.40	1639.80	1581.18	27.97	
6700.00	6587.53	11.91	269.35	6392.54	28.36	15.11	177.74	1666.13	1607.54	28.44	
6800.00	6693.86	20.42	268.20	6494.57	28.19	14.25	148.94	1692.43	1634.18	29.06	
6900.00	6797.49	28.70	267.71	6588.74	27.96	13.20	129.19	1718.16	1660.49	29.79	
7000.00	6898.72	36.80	267.44	6673.81	27.71	12.03	116.44	1742.82	1685.84	30.58	
7100.00	6997.85	44.73	267.25	6748.82	27.52	10.87	107.75	1765.92	1709.63	31.37	
7200.00	7095.09	52.51	267.12	6813.06	27.42	9.85	101.48	1786.98	1731.25	32.07	
7300.00	7190.63	60.15	267.01	6865.99	27.48	9.13	96.78	1805.57	1750.06	32.53	
7400.00	7284.60	67.67	266.92	6907.29	27.72	8.85	93.20	1821.32	1765.71	32.75	
7500.00	7377.10	75.07	266.84	6936.82	28.16	9.09	90.50	1833.91	1777.82	32.69	
7600.00	7468.19	82.36	266.76	6954.63	28.77	9.79	88.54	1843.08	1786.11	32.35	
7700.00	7557.91	89.53	266.69	6960.98	29.52	10.81	87.25	1848.64	1790.41	31.75	
7800.00	7656.85	90.00	266.69	6961.00	30.57	11.33	86.71	1850.20	1790.26	30.86	
7900.00	7756.84	90.00	266.69	6961.00	31.82	11.84	86.71	1849.13	1786.94	29.74	
8000.00	7856.83	90.00	266.69	6961.00	33.26	12.36	86.71	1848.04	1783.24	28.52	
8100.00	7956.83	90.00	266.69	6961.00	34.87	12.91	86.71	1846.94	1779.23	27.28	
8200.00	8056.82	90.00	266.69	6961.00	36.62	13.47	86.71	1845.85	1774.80	25.98	
8300.00	8156.82	90.00	266.69	6961.00	38.49	14.05	86.71	1844.75	1770.22	24.75	
8400.00	8256.81	90.00	266.69	6961.00	40.47	14.65	86.70	1843.65	1765.34	23.54	
8500.00	8356.80	90.00	266.69	6961.00	42.55	15.25	86.70	1842.56	1760.24	22.38	
8600.00	8456.80	90.00	266.69	6961.00	44.70	15.87	86.70	1841.46	1754.88	21.27	
8700.00	8556.79	90.00	266.69	6961.00	46.92	16.50	86.70	1840.37	1749.41	20.23	
8800.00	8656.79	90.00	266.69	6961.00	49.20	17.13	86.70	1839.27	1743.79	19.26	
8900.00	8756.78	90.00	266.69	6961.00	51.53	17.77	86.69	1838.18	1738.13	18.37	
9000.00	8856.77	90.00	266.69	6961.00	53.90	18.42	86.69	1837.08	1732.37	17.54	
9100.00	8956.77	90.00	266.69	6961.00	56.31	19.08	86.69	1835.99	1726.52	16.77	
9200.00	9056.76	90.00	266.69	6961.00	58.76	19.74	86.69	1834.89	1720.59	16.05	
9300.00	9156.76	90.00	266.69	6961.00	61.24	20.41	86.69	1833.80	1714.59	15.38	
9400.00	9256.75	90.00	266.69	6961.00	63.74	21.08	86.68	1832.70	1708.53	14.76	
9500.00	9356.74	90.00	266.69	6961.00	66.27	21.75	86.68	1831.61	1702.41	14.18	
9600.00	9456.74	90.00	266.69	6961.00	68.82	22.43	86.68	1830.51	1696.25	13.63	
9700.00	9556.73	90.00	266.69	6961.00	71.39	23.11	86.68	1829.42	1690.04	13.13	
9800.00	9656.73	90.00	266.69	6961.00	73.97	23.79	86.68	1828.32	1683.80	12.65	
9900.00	9756.72	90.00	266.69	6961.00	76.57	24.48	86.67	1827.23	1677.53	12.21	
10000.00	9856.71	90.00	266.69	6961.00	79.18	25.17	86.67	1826.13	1671.22	11.79	
10100.00	9956.71	90.00	266.69	6961.00	81.81	25.86	86.67	1825.04	1664.89	11.40	
10200.00	10056.70	90.00	266.69	6961.00	84.45	26.56	86.67	1823.94	1658.54	11.03	
10300.00	10156.70	90.00	266.69	6961.00	87.09	27.25	86.67	1822.85	1652.17	10.68	
10400.00	10256.69	90.00	266.69	6961.00	89.75	27.95	86.66	1821.75	1645.77	10.35	
10500.00	10356.68	90.00	266.69	6961.00	92.41	28.65	86.66	1820.66	1639.36	10.04	
10600.00	10456.68	90.00	266.69	6961.00	95.08	29.35	86.66	1819.56	1632.93	9.75	
10700.00	10556.67	90.00	266.69	6961.00	97.76	30.06	86.66	1818.47	1626.49	9.47	
10800.00	10656.67	90.00	266.69	6961.00	100.45	30.76	86.66	1817.37	1620.04	9.21	
10900.00	10756.66	90.00	266.69	6961.00	103.14	31.47	86.65	1816.28	1613.57	8.96	
11000.00	10856.65	90.00	266.69	6961.00	105.83	32.18	86.65	1815.18	1607.09	8.72	
11100.00	10956.65	90.00	266.69	6961.00	108.53	32.88	86.65	1814.09	1600.60	8.50	
11200.00	11056.64	90.00	266.69	6961.00	111.24	33.59	86.65	1812.99	1594.10	8.28	
11300.00	11156.64	90.00	266.69	6961.00	113.95	34.30	86.65	1811.90	1587.59	8.08	
11400.00	11256.63	90.00	266.69	6961.00	116.67	35.02	86.64	1810.80	1581.07	7.88	
11500.00	11356.62	90.00	266.69	6961.00	119.39	35.73	86.64	1809.71	1574.55	7.70	

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
11600.00	11456.62	90.00	266.69	6961.00	122.11	36.44	86.64	1808.61	1568.02	7.52	
11700.00	11556.61	90.00	266.69	6961.00	124.83	37.16	86.64	1807.52	1561.48	7.35	
11800.00	11656.61	90.00	266.69	6961.00	127.56	37.87	86.64	1806.42	1554.93	7.18	
11900.00	11756.60	90.00	266.69	6961.00	130.29	38.59	86.63	1805.33	1548.38	7.03	
12000.00	11856.59	90.00	266.69	6961.00	133.03	39.30	86.63	1804.23	1541.82	6.88	
12100.00	11956.59	90.00	266.69	6961.00	135.77	40.02	86.63	1803.14	1535.26	6.73	
12200.00	12056.58	90.00	266.69	6961.00	138.51	40.73	86.63	1802.04	1528.70	6.59	
12300.00	12156.58	90.00	266.69	6961.00	141.25	41.45	86.63	1800.95	1522.12	6.46	
12400.00	12256.57	90.00	266.69	6961.00	143.99	42.17	86.62	1799.85	1515.55	6.33	
12500.00	12356.56	90.00	266.69	6961.00	146.74	42.89	86.62	1798.76	1508.97	6.21	
12600.00	12456.56	90.00	266.69	6961.00	149.48	43.61	86.62	1797.66	1502.38	6.09	
12700.00	12556.55	90.00	266.69	6961.00	152.23	44.33	86.62	1796.57	1495.80	5.97	
12800.00	12656.55	90.00	266.69	6961.00	154.99	45.05	86.62	1795.47	1489.21	5.86	
12900.00	12756.54	90.00	266.69	6961.00	157.74	45.77	86.61	1794.38	1482.61	5.76	
13000.00	12856.53	90.00	266.69	6961.00	160.49	46.49	86.61	1793.28	1476.02	5.65	
13100.00	12956.53	90.00	266.69	6961.00	163.25	47.21	86.61	1792.19	1469.42	5.55	
13200.00	13056.52	90.00	266.69	6961.00	166.01	47.93	86.61	1791.09	1462.81	5.46	
13300.00	13156.52	90.00	266.69	6961.00	168.77	48.66	86.60	1790.00	1456.21	5.36	
13400.00	13256.51	90.00	266.69	6961.00	171.53	49.38	86.60	1788.90	1449.60	5.27	
13500.00	13356.50	90.00	266.69	6961.00	174.29	50.10	86.60	1787.81	1442.99	5.18	
13600.00	13456.50	90.00	266.69	6961.00	177.05	50.82	86.60	1786.71	1436.38	5.10	
13700.00	13556.49	90.00	266.69	6961.00	179.81	51.55	86.60	1785.62	1429.76	5.02	
13800.00	13656.49	90.00	266.69	6961.00	182.58	52.27	86.59	1784.52	1423.14	4.94	
13900.00	13756.48	90.00	266.69	6961.00	185.34	53.00	86.59	1783.43	1416.53	4.86	
14000.00	13856.47	90.00	266.69	6961.00	188.11	53.72	86.59	1782.33	1409.90	4.79	
14100.00	13956.47	90.00	266.69	6961.00	190.88	54.44	86.59	1781.24	1403.28	4.71	
14200.00	14056.46	90.00	266.69	6961.00	193.64	55.17	86.59	1780.14	1396.66	4.64	
14300.00	14156.46	90.00	266.69	6961.00	196.41	55.89	86.58	1779.05	1390.03	4.57	
14400.00	14256.45	90.00	266.69	6961.00	199.18	56.62	86.58	1777.95	1383.40	4.51	
14500.00	14356.44	90.00	266.69	6961.00	201.95	57.34	86.58	1776.86	1376.77	4.44	
14600.00	14456.44	90.00	266.69	6961.00	204.73	58.07	86.58	1775.76	1370.14	4.38	
14700.00	14556.43	90.00	266.69	6961.00	207.50	58.80	86.58	1774.67	1363.51	4.32	
14800.00	14656.43	90.00	266.69	6961.00	210.27	59.52	86.57	1773.57	1356.88	4.26	
14900.00	14756.42	90.00	266.69	6961.00	213.04	60.25	86.57	1772.48	1350.24	4.20	
15000.00	14856.41	90.00	266.69	6961.00	215.82	60.97	86.57	1771.38	1343.61	4.14	
15100.00	14956.41	90.00	266.69	6961.00	218.59	61.70	86.57	1770.29	1336.97	4.09	
15200.00	15056.40	90.00	266.69	6961.00	221.37	62.43	86.56	1769.19	1330.33	4.03	
15300.00	15156.40	90.00	266.69	6961.00	224.14	63.15	86.56	1768.10	1323.69	3.98	
15400.00	15256.39	90.00	266.69	6961.00	226.92	63.88	86.56	1767.00	1317.05	3.93	
15500.00	15356.38	90.00	266.69	6961.00	229.70	64.61	86.56	1765.91	1310.41	3.88	
15600.00	15456.38	90.00	266.69	6961.00	232.47	65.33	86.56	1764.81	1303.77	3.83	
15700.00	15473.86	90.00	266.69	6961.00	232.96	65.46	86.56	1765.65	1302.26	3.81	
15701.00	15473.86	90.00	266.69	6961.00	232.96	65.46	86.56	1765.68	1302.29	3.81	
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	0.01	139.90	139.16	190.77	
100.00	100.00	0.00	0.00	100.00	0.11	0.11	0.01	139.90	138.94	146.65	
200.00	200.00	0.00	0.00	200.00	0.34	0.34	0.01	139.90	138.49	99.68	
300.00	300.00	0.00	0.00	300.00	0.56	0.56	0.01	139.90	138.04	75.49	
400.00	400.00	0.00	0.00	400.00	0.79	0.79	0.01	139.90	137.59	60.76	
500.00	500.00	0.00	0.00	500.00	1.01	1.01	0.01	139.90	137.14	50.83	
600.00	600.00	0.00	0.00	600.00	1.24	1.24	0.01	139.90	136.69	43.69	
700.00	699.98	0.00	0.00	699.98	1.46	1.46	221.37	141.20	137.58	38.98	
800.00	799.84	0.00	0.00	799.84	1.69	1.69	220.05	145.17	141.13	35.94	
900.00	899.45	0.00	0.00	899.45	1.91	1.91	218.03	151.95	147.49	34.02	
1000.00	998.70	0.00	0.00	998.70	2.13	2.13	215.49	161.74	156.82	32.86	

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
1100.00	1097.47	0.00	0.00	1097.47	2.35	2.35	212.66	174.76	169.37	32.43	
1200.00	1195.62	0.00	0.00	1195.62	2.58	2.58	209.75	191.16	185.31	32.66	
1300.00	1293.06	0.00	0.00	1293.06	2.79	2.79	206.92	211.08	204.75	33.32	
1400.00	1389.64	0.00	0.00	1389.64	3.01	3.01	204.27	234.58	227.74	34.32	
1500.00	1485.27	0.00	0.00	1485.27	3.23	3.23	201.86	261.66	254.33	35.72	
1600.00	1579.86	0.00	0.00	1579.86	3.44	3.44	199.66	292.20	284.38	37.40	
1700.00	1674.14	0.00	0.00	1674.14	3.65	3.65	197.69	323.96	315.65	39.00	
1800.00	1772.85	1.46	92.75	1772.84	3.86	3.86	196.13	355.58	346.77	40.35	
1900.00	1874.57	3.49	92.75	1874.46	4.07	4.06	195.26	385.77	376.47	41.48	
2000.00	1977.63	5.55	92.75	1977.20	4.29	4.26	194.97	414.28	404.47	42.20	
2100.00	2081.81	7.64	92.75	2080.68	4.52	4.46	195.16	441.05	430.68	42.54	
2200.00	2186.82	9.74	92.75	2184.48	4.78	4.66	195.74	466.07	455.11	42.53	
2300.00	2292.41	11.85	92.75	2288.19	5.07	4.86	196.67	489.40	477.80	42.18	
2400.00	2398.27	13.97	92.75	2391.38	5.41	5.07	197.90	511.15	498.81	41.45	
2500.00	2504.14	16.08	92.75	2493.62	5.81	5.28	199.41	531.47	518.34	40.47	
2600.00	2604.54	16.91	92.75	2589.76	6.24	5.50	201.01	550.85	536.84	39.34	
2700.00	2701.55	16.91	92.75	2682.58	6.69	5.73	202.49	570.49	555.58	38.28	
2800.00	2798.55	16.91	92.75	2775.39	7.16	5.97	203.86	590.47	574.60	37.20	
2900.00	2895.56	16.91	92.75	2868.21	7.65	6.22	205.15	610.76	593.90	36.23	
3000.00	2992.57	16.91	92.75	2961.02	8.15	6.46	206.35	631.34	613.48	35.34	
3100.00	3089.58	16.91	92.75	3053.84	8.67	6.72	207.48	652.17	633.29	34.55	
3200.00	3186.59	16.91	92.75	3146.65	9.20	6.97	208.54	673.23	653.31	33.79	
3300.00	3283.60	16.91	92.75	3239.47	9.73	7.23	209.54	694.50	673.49	33.06	
3400.00	3380.61	16.91	92.75	3332.29	10.28	7.49	210.47	715.96	693.84	32.36	
3500.00	3477.61	16.91	92.75	3425.10	10.83	7.75	211.36	737.60	714.35	31.73	
3600.00	3574.62	16.91	92.75	3517.92	11.39	8.02	212.19	759.39	735.02	31.16	
3700.00	3671.63	16.91	92.75	3610.73	11.95	8.29	212.98	781.34	755.83	30.64	
3800.00	3768.64	16.91	92.75	3703.55	12.51	8.56	213.72	803.41	776.77	30.16	
3900.00	3865.65	16.91	92.75	3796.36	13.08	8.83	214.43	825.61	797.84	29.72	
4000.00	3962.66	16.91	92.75	3889.18	13.66	9.10	215.10	847.93	819.01	29.32	
4100.00	4059.67	16.91	92.75	3981.99	14.23	9.38	215.73	870.35	840.29	28.95	
4200.00	4156.67	16.91	92.75	4074.81	14.81	9.65	216.33	892.86	861.66	28.61	
4300.00	4253.68	16.91	92.75	4167.62	15.39	9.93	216.91	915.47	883.12	28.30	
4400.00	4350.69	16.91	92.75	4260.44	15.97	10.21	217.45	938.16	904.64	27.98	
4500.00	4447.70	16.91	92.75	4353.25	16.55	10.49	217.97	960.93	926.22	27.69	
4600.00	4544.71	16.91	92.75	4446.07	17.13	10.77	218.47	983.77	947.88	27.42	
4700.00	4641.72	16.91	92.75	4538.88	17.72	11.05	218.94	1006.67	969.61	27.16	
4800.00	4738.73	16.91	92.75	4631.70	18.31	11.33	219.40	1029.64	991.39	26.92	
4900.00	4835.73	16.91	92.75	4724.51	18.90	11.61	219.83	1052.67	1013.22	26.68	
5000.00	4932.74	16.91	92.75	4817.33	19.48	11.89	220.24	1075.75	1035.11	26.47	
5100.00	5029.75	16.91	92.75	4910.14	20.07	12.18	220.64	1098.89	1057.04	26.26	
5200.00	5126.76	16.91	92.75	5002.96	20.67	12.46	221.02	1122.07	1079.03	26.07	
5300.00	5223.77	16.91	92.75	5095.77	21.26	12.75	221.39	1145.30	1101.06	25.89	
5400.00	5320.78	16.91	92.75	5188.59	21.85	13.03	221.74	1168.57	1123.13	25.72	
5500.00	5417.78	16.91	92.75	5281.40	22.44	13.32	222.08	1191.88	1145.24	25.55	
5600.00	5514.79	16.91	92.75	5374.22	23.04	13.60	222.40	1215.23	1167.39	25.40	
5700.00	5611.80	16.91	92.75	5467.03	23.63	13.89	222.71	1238.61	1189.57	25.26	
5800.00	5708.81	16.91	92.75	5559.85	24.23	14.18	223.02	1262.03	1211.79	25.12	
5900.00	5805.82	16.91	92.75	5652.66	24.82	14.47	223.31	1285.48	1234.05	24.99	
6000.00	5902.83	16.91	92.75	5745.48	25.42	14.75	223.59	1308.96	1256.33	24.87	
6100.00	5999.84	16.91	92.75	5838.29	26.01	15.04	223.85	1332.47	1278.64	24.75	
6200.00	6096.84	16.91	92.75	5931.11	26.61	15.33	224.12	1356.00	1300.98	24.64	
6300.00	6193.85	16.91	92.75	6023.93	27.21	15.62	224.37	1379.57	1323.34	24.54	
6400.00	6297.21	13.78	94.21	6123.10	27.80	15.94	224.58	1403.08	1345.64	24.43	
6500.00	6412.56	4.80	109.19	6236.84	28.12	16.04	224.22	1425.61	1367.36	24.47	
6600.00	6523.92	4.84	244.36	6348.03	28.20	15.77	208.00	1447.44	1388.92	24.73	
6700.00	6631.55	13.21	258.81	6454.25	28.11	15.17	177.55	1469.66	1411.31	25.19	
6800.00	6735.91	21.51	262.00	6553.77	27.90	14.31	148.96	1491.92	1434.06	25.79	

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
6900.00	6837.34	29.60	263.44	6645.20	27.64	13.26	129.41	1513.79	1456.61	26.48	
7000.00	6936.18	37.49	264.28	6727.51	27.37	12.11	116.85	1534.83	1478.42	27.21	
7100.00	7032.73	45.21	264.85	6799.93	27.15	10.97	108.35	1554.59	1498.94	27.93	
7200.00	7127.28	52.77	265.28	6861.93	27.02	9.96	102.24	1572.68	1517.54	28.52	
7300.00	7220.05	60.18	265.62	6913.13	27.04	9.21	97.67	1588.70	1533.83	28.96	
7400.00	7311.23	67.47	265.92	6953.32	27.22	8.88	94.21	1602.31	1547.36	29.16	
7500.00	7400.97	74.65	266.17	6982.43	27.58	9.03	91.60	1613.22	1557.80	29.11	
7600.00	7489.41	81.72	266.41	7000.53	28.15	9.64	89.71	1621.20	1564.88	28.78	
7700.00	7576.65	88.69	266.64	7007.81	28.86	10.59	88.46	1626.07	1568.46	28.22	
7800.00	7673.89	90.00	266.68	7008.00	29.84	11.17	87.92	1627.44	1568.13	27.44	
7900.00	7773.88	90.00	266.68	7008.00	31.05	11.66	87.92	1626.35	1564.83	26.44	
8000.00	7873.87	90.00	266.68	7008.00	32.46	12.18	87.92	1625.24	1561.14	25.36	
8100.00	7973.87	90.00	266.68	7008.00	34.04	12.71	87.92	1624.12	1557.13	24.24	
8200.00	8073.86	90.00	266.68	7008.00	35.77	13.27	87.92	1623.01	1552.72	23.09	
8300.00	8173.85	90.00	266.68	7008.00	37.62	13.84	87.92	1621.90	1548.09	21.97	
8400.00	8273.85	90.00	266.68	7008.00	39.59	14.42	87.91	1620.79	1543.19	20.89	
8500.00	8373.84	90.00	266.68	7008.00	41.65	15.02	87.91	1619.68	1538.09	19.85	
8600.00	8473.84	90.00	266.68	7008.00	43.80	15.63	87.91	1618.57	1532.70	18.85	
8700.00	8573.83	90.00	266.68	7008.00	46.02	16.25	87.91	1617.46	1527.23	17.93	
8800.00	8673.82	90.00	266.68	7008.00	48.29	16.88	87.91	1616.35	1521.60	17.06	
8900.00	8773.82	90.00	266.68	7008.00	50.62	17.52	87.91	1615.24	1515.91	16.26	
9000.00	8873.81	90.00	266.68	7008.00	52.99	18.16	87.91	1614.12	1510.13	15.52	
9100.00	8973.80	90.00	266.68	7008.00	55.41	18.81	87.90	1613.01	1504.26	14.83	
9200.00	9073.80	90.00	266.68	7008.00	57.85	19.47	87.90	1611.90	1498.31	14.19	
9300.00	9173.79	90.00	266.68	7008.00	60.33	20.13	87.90	1610.79	1492.29	13.59	
9400.00	9273.79	90.00	266.68	7008.00	62.84	20.80	87.90	1609.68	1486.21	13.04	
9500.00	9373.78	90.00	266.68	7008.00	65.37	21.47	87.90	1608.57	1480.07	12.52	
9600.00	9473.77	90.00	266.68	7008.00	67.92	22.15	87.90	1607.46	1473.89	12.03	
9700.00	9573.77	90.00	266.68	7008.00	70.49	22.83	87.89	1606.35	1467.66	11.58	
9800.00	9673.76	90.00	266.68	7008.00	73.07	23.51	87.89	1605.23	1461.40	11.16	
9900.00	9773.76	90.00	266.68	7008.00	75.67	24.20	87.89	1604.12	1455.10	10.76	
10000.00	9873.75	90.00	266.68	7008.00	78.29	24.88	87.89	1603.01	1448.77	10.39	
10100.00	9973.74	90.00	266.68	7008.00	80.91	25.57	87.89	1601.90	1442.42	10.04	
10200.00	10073.74	90.00	266.68	7008.00	83.55	26.27	87.89	1600.79	1436.05	9.72	
10300.00	10173.73	90.00	266.68	7008.00	86.20	26.96	87.89	1599.68	1429.65	9.41	
10400.00	10273.72	90.00	266.68	7008.00	88.86	27.66	87.88	1598.57	1423.23	9.12	
10500.00	10373.72	90.00	266.68	7008.00	91.52	28.36	87.88	1597.46	1416.80	8.84	
10600.00	10473.71	90.00	266.68	7008.00	94.19	29.06	87.88	1596.35	1410.35	8.58	
10700.00	10573.71	90.00	266.68	7008.00	96.88	29.76	87.88	1595.23	1403.88	8.34	
10800.00	10673.70	90.00	266.68	7008.00	99.56	30.46	87.88	1594.12	1397.41	8.10	
10900.00	10773.69	90.00	266.68	7008.00	102.25	31.17	87.88	1593.01	1390.92	7.88	
11000.00	10873.69	90.00	266.68	7008.00	104.95	31.87	87.88	1591.90	1384.41	7.67	
11100.00	10973.68	90.00	266.68	7008.00	107.66	32.58	87.87	1590.79	1377.90	7.47	
11200.00	11073.68	90.00	266.68	7008.00	110.36	33.29	87.87	1589.68	1371.38	7.28	
11300.00	11173.67	90.00	266.68	7008.00	113.08	34.00	87.87	1588.57	1364.85	7.10	
11400.00	11273.66	90.00	266.68	7008.00	115.79	34.71	87.87	1587.46	1358.31	6.93	
11500.00	11373.66	90.00	266.68	7008.00	118.51	35.42	87.87	1586.34	1351.76	6.76	
11600.00	11473.65	90.00	266.68	7008.00	121.24	36.14	87.87	1585.23	1345.21	6.60	
11700.00	11573.64	90.00	266.68	7008.00	123.96	36.85	87.87	1584.12	1338.64	6.45	
11800.00	11673.64	90.00	266.68	7008.00	126.69	37.56	87.86	1583.01	1332.08	6.31	
11900.00	11773.63	90.00	266.68	7008.00	129.43	38.28	87.86	1581.90	1325.50	6.17	
12000.00	11873.63	90.00	266.68	7008.00	132.16	38.99	87.86	1580.79	1318.92	6.04	
12100.00	11973.62	90.00	266.68	7008.00	134.90	39.71	87.86	1579.68	1312.34	5.91	
12200.00	12073.61	90.00	266.68	7008.00	137.64	40.43	87.86	1578.57	1305.75	5.79	
12300.00	12173.61	90.00	266.68	7008.00	140.38	41.14	87.86	1577.46	1299.16	5.67	
12400.00	12273.60	90.00	266.68	7008.00	143.13	41.86	87.85	1576.34	1292.56	5.55	
12500.00	12373.59	90.00	266.68	7008.00	145.87	42.58	87.85	1575.23	1285.95	5.45	
12600.00	12473.59	90.00	266.68	7008.00	148.62	43.30	87.85	1574.12	1279.35	5.34	

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
12700.00	12573.58	90.00	266.68	7008.00	151.37	44.02	87.85	1573.01	1272.74	5.24	
12800.00	12673.58	90.00	266.68	7008.00	154.13	44.74	87.85	1571.90	1266.13	5.14	
12900.00	12773.57	90.00	266.68	7008.00	156.88	45.46	87.85	1570.79	1259.51	5.05	
13000.00	12873.56	90.00	266.68	7008.00	159.64	46.18	87.85	1569.68	1252.89	4.95	
13100.00	12973.56	90.00	266.68	7008.00	162.39	46.90	87.84	1568.57	1246.27	4.87	
13200.00	13073.55	90.00	266.68	7008.00	165.15	47.62	87.84	1567.46	1239.64	4.78	
13300.00	13173.55	90.00	266.68	7008.00	167.91	48.34	87.84	1566.34	1233.01	4.70	
13400.00	13273.54	90.00	266.68	7008.00	170.67	49.06	87.84	1565.23	1226.38	4.62	
13500.00	13373.53	90.00	266.68	7008.00	173.43	49.79	87.84	1564.12	1219.75	4.54	
13600.00	13473.53	90.00	266.68	7008.00	176.20	50.51	87.84	1563.01	1213.11	4.47	
13700.00	13573.52	90.00	266.68	7008.00	178.96	51.23	87.84	1561.90	1206.48	4.39	
13800.00	13673.51	90.00	266.68	7008.00	181.73	51.96	87.83	1560.79	1199.84	4.32	
13900.00	13773.51	90.00	266.68	7008.00	184.49	52.68	87.83	1559.68	1193.20	4.26	
14000.00	13873.50	90.00	266.68	7008.00	187.26	53.40	87.83	1558.57	1186.55	4.19	
14100.00	13973.50	90.00	266.68	7008.00	190.03	54.13	87.83	1557.46	1179.91	4.13	
14200.00	14073.49	90.00	266.68	7008.00	192.80	54.85	87.83	1556.34	1173.26	4.06	
14300.00	14173.48	90.00	266.68	7008.00	195.56	55.58	87.83	1555.23	1166.61	4.00	
14400.00	14273.48	90.00	266.68	7008.00	198.34	56.30	87.82	1554.12	1159.96	3.94	
14500.00	14373.47	90.00	266.68	7008.00	201.11	57.03	87.82	1553.01	1153.31	3.89	
14600.00	14473.46	90.00	266.68	7008.00	203.88	57.75	87.82	1551.90	1146.66	3.83	
14700.00	14573.46	90.00	266.68	7008.00	206.65	58.48	87.82	1550.79	1140.00	3.78	
14800.00	14673.45	90.00	266.68	7008.00	209.42	59.20	87.82	1549.68	1133.34	3.72	
14900.00	14773.45	90.00	266.68	7008.00	212.20	59.93	87.82	1548.57	1126.69	3.67	
15000.00	14873.44	90.00	266.68	7008.00	214.97	60.65	87.81	1547.46	1120.03	3.62	
15100.00	14973.43	90.00	266.68	7008.00	217.75	61.38	87.81	1546.34	1113.37	3.57	
15200.00	15073.43	90.00	266.68	7008.00	220.52	62.11	87.81	1545.23	1106.71	3.52	
15300.00	15173.42	90.00	266.68	7008.00	223.30	62.83	87.81	1544.12	1100.05	3.48	
15400.00	15273.42	90.00	266.68	7008.00	226.08	63.56	87.81	1543.01	1093.38	3.43	
15500.00	15373.41	90.00	266.68	7008.00	228.85	64.29	87.81	1541.90	1086.72	3.39	
15600.00	15473.40	90.00	266.68	7008.00	231.63	65.01	87.81	1540.79	1080.05	3.34	
15700.00	15501.26	90.00	266.68	7008.00	232.41	65.22	87.80	1541.37	1078.06	3.33	
15701.00	15501.26	90.00	266.68	7008.00	232.41	65.22	87.80	1541.40	1078.09	3.33	
Secondary Well: Goetzel 12N-30A-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
0.00	0.00	0.00	0.00	0.00	0.00	0.00	359.95	120.22	119.49	163.94	
100.00	100.00	0.00	0.00	100.00	0.11	0.11	359.95	120.22	119.27	126.03	
200.00	200.00	0.00	0.00	200.00	0.34	0.34	359.95	120.22	118.82	85.66	
300.00	300.00	0.00	0.00	300.00	0.56	0.56	359.95	120.22	118.37	64.88	
400.00	400.00	0.00	0.00	400.00	0.79	0.79	359.95	120.22	117.92	52.21	
500.00	500.00	0.00	0.00	500.00	1.01	1.01	359.95	120.22	117.47	43.68	
600.00	600.00	0.00	0.00	600.00	1.24	1.24	359.95	120.22	117.02	37.55	
700.00	699.98	0.00	0.00	699.98	1.46	1.46	221.23	121.53	117.91	33.55	
800.00	799.84	0.00	0.00	799.84	1.69	1.69	219.71	125.51	121.47	31.07	
900.00	899.45	0.00	0.00	899.45	1.91	1.91	217.39	132.34	127.88	29.63	
1000.00	998.70	0.00	0.00	998.70	2.13	2.13	214.52	142.24	137.31	28.89	
1100.00	1097.47	0.00	0.00	1097.47	2.35	2.35	211.40	155.41	150.03	28.85	
1200.00	1195.62	0.00	0.00	1195.62	2.58	2.58	208.26	172.05	166.20	29.41	
1300.00	1293.06	0.00	0.00	1293.06	2.79	2.79	205.28	192.24	185.91	30.37	
1400.00	1389.64	0.00	0.00	1389.64	3.01	3.01	202.55	216.04	209.22	31.68	
1500.00	1487.00	0.74	100.92	1487.00	3.22	3.22	200.12	243.31	236.01	33.33	
1600.00	1587.45	2.75	100.92	1587.39	3.42	3.42	198.36	272.47	264.68	34.99	
1700.00	1689.21	4.78	100.92	1688.94	3.63	3.61	197.32	300.69	292.42	36.36	
1800.00	1792.40	6.85	100.92	1791.58	3.85	3.81	196.99	326.93	318.14	37.19	
1900.00	1896.75	8.94	100.92	1894.94	4.10	4.01	197.22	351.09	341.74	37.57	
2000.00	2002.02	11.04	100.92	1998.61	4.39	4.22	197.91	373.17	363.21	37.47	
2100.00	2107.92	13.16	100.92	2102.15	4.72	4.43	198.99	393.23	382.57	36.90	

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
2200.00	2214.17	15.28	100.92	2205.14	5.12	4.65	200.43	411.39	399.96	36.00	
2300.00	2318.42	16.88	100.92	2305.21	5.56	4.87	202.13	427.89	415.62	34.89	
2400.00	2416.34	16.88	100.92	2398.91	6.02	5.11	203.73	444.17	431.04	33.82	
2500.00	2514.26	16.88	100.92	2492.61	6.51	5.35	205.22	460.77	446.70	32.75	
2600.00	2612.18	16.88	100.92	2586.31	7.01	5.60	206.60	477.66	462.59	31.70	
2700.00	2710.10	16.88	100.92	2680.01	7.53	5.85	207.89	494.80	478.72	30.77	
2800.00	2808.02	16.88	100.92	2773.71	8.07	6.11	209.10	512.17	495.06	29.93	
2900.00	2905.95	16.88	100.92	2867.41	8.61	6.37	210.22	529.75	511.58	29.15	
3000.00	3003.87	16.88	100.92	2961.11	9.16	6.63	211.27	547.51	528.25	28.42	
3100.00	3101.79	16.88	100.92	3054.82	9.72	6.90	212.26	565.45	545.08	27.76	
3200.00	3199.71	16.88	100.92	3148.52	10.29	7.17	213.19	583.54	562.06	27.17	
3300.00	3297.63	16.88	100.92	3242.22	10.86	7.44	214.06	601.76	579.16	26.62	
3400.00	3395.55	16.88	100.92	3335.92	11.44	7.71	214.88	620.12	596.37	26.10	
3500.00	3493.47	16.88	100.92	3429.62	12.01	7.99	215.65	638.59	613.69	25.64	
3600.00	3591.39	16.88	100.92	3523.32	12.60	8.27	216.38	657.17	631.11	25.21	
3700.00	3689.32	16.88	100.92	3617.02	13.18	8.54	217.07	675.85	648.63	24.83	
3800.00	3787.24	16.88	100.92	3710.72	13.77	8.82	217.73	694.62	666.22	24.46	
3900.00	3885.16	16.88	100.92	3804.42	14.36	9.11	218.34	713.47	683.87	24.11	
4000.00	3983.08	16.88	100.92	3898.12	14.95	9.39	218.93	732.40	701.60	23.78	
4100.00	4081.00	16.88	100.92	3991.82	15.54	9.67	219.49	751.39	719.40	23.49	
4200.00	4178.92	16.88	100.92	4085.52	16.13	9.95	220.02	770.46	737.26	23.21	
4300.00	4276.84	16.88	100.92	4179.22	16.73	10.24	220.52	789.58	755.18	22.95	
4400.00	4374.77	16.88	100.92	4272.93	17.33	10.52	221.00	808.76	773.16	22.72	
4500.00	4472.69	16.88	100.92	4366.63	17.92	10.81	221.46	827.99	791.19	22.50	
4600.00	4570.61	16.88	100.92	4460.33	18.52	11.10	221.90	847.28	809.27	22.29	
4700.00	4668.53	16.88	100.92	4554.03	19.12	11.39	222.32	866.60	827.39	22.10	
4800.00	4766.45	16.88	100.92	4647.73	19.72	11.67	222.72	885.98	845.55	21.92	
4900.00	4864.37	16.88	100.92	4741.43	20.32	11.96	223.10	905.39	863.76	21.75	
5000.00	4962.29	16.88	100.92	4835.13	20.92	12.25	223.47	924.83	882.00	21.59	
5100.00	5060.21	16.88	100.92	4928.83	21.52	12.54	223.82	944.32	900.27	21.44	
5200.00	5158.14	16.88	100.92	5022.53	22.13	12.83	224.16	963.83	918.58	21.30	
5300.00	5256.06	16.88	100.92	5116.23	22.73	13.12	224.48	983.38	936.92	21.17	
5400.00	5353.98	16.88	100.92	5209.93	23.33	13.41	224.80	1002.96	955.29	21.04	
5500.00	5451.90	16.88	100.92	5303.63	23.94	13.70	225.10	1022.56	973.69	20.92	
5600.00	5549.82	16.88	100.92	5397.33	24.54	14.00	225.38	1042.19	992.11	20.81	
5700.00	5647.74	16.88	100.92	5491.04	25.15	14.29	225.66	1061.85	1010.56	20.71	
5800.00	5745.66	16.88	100.92	5584.74	25.75	14.58	225.93	1081.52	1029.03	20.60	
5900.00	5843.59	16.88	100.92	5678.44	26.36	14.87	226.19	1101.22	1047.53	20.51	
6000.00	5941.51	16.88	100.92	5772.14	26.96	15.16	226.44	1120.94	1066.04	20.42	
6100.00	6039.43	16.88	100.92	5865.84	27.57	15.46	226.68	1140.68	1084.56	20.32	
6200.00	6149.11	12.26	106.52	5971.44	28.10	15.77	226.81	1160.20	1102.90	20.25	
6300.00	6269.45	4.54	151.95	6090.50	28.36	15.79	226.10	1178.04	1120.06	20.32	
6400.00	6382.84	8.23	237.49	6203.36	28.34	15.43	224.58	1194.52	1136.40	20.55	
6500.00	6484.88	15.83	252.59	6303.12	28.15	14.81	222.55	1210.78	1152.98	20.95	
6600.00	6575.45	22.89	257.46	6388.51	27.89	14.04	205.31	1228.35	1171.21	21.50	
6700.00	6660.51	29.61	259.99	6464.76	27.59	13.17	174.05	1248.07	1191.83	22.19	
6800.00	6741.60	36.04	261.59	6532.87	27.31	12.25	144.73	1269.34	1214.06	22.96	
6900.00	6819.61	42.24	262.71	6593.35	27.06	11.32	124.51	1291.42	1237.02	23.74	
7000.00	6895.19	48.25	263.57	6646.54	26.86	10.44	111.36	1313.58	1259.92	24.48	
7100.00	6968.86	54.12	264.27	6692.69	26.77	9.67	102.34	1335.12	1281.99	25.13	
7200.00	7041.01	59.87	264.86	6731.97	26.77	9.09	95.79	1355.42	1302.61	25.66	
7300.00	7111.96	65.53	265.37	6764.50	26.86	8.75	90.87	1373.90	1321.15	26.05	
7400.00	7181.95	71.11	265.84	6790.34	27.10	8.71	87.13	1390.06	1337.05	26.22	
7500.00	7251.19	76.64	266.27	6809.56	27.46	8.97	84.33	1403.49	1349.85	26.17	
7600.00	7319.83	82.11	266.67	6822.21	27.91	9.50	82.31	1413.84	1359.25	25.90	
7700.00	7388.01	87.56	267.07	6828.35	28.47	10.25	81.00	1420.85	1364.91	25.40	
7800.00	7473.46	90.00	267.24	6829.00	29.31	10.90	80.38	1424.01	1366.40	24.72	
7900.00	7573.46	90.00	267.24	6829.00	30.48	11.40	80.38	1423.92	1364.25	23.86	

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
8000.00	7673.46	90.00	267.24	6829.00	31.86	11.91	80.38	1423.79	1361.65	22.91	
8100.00	7773.46	90.00	267.24	6829.00	33.40	12.45	80.38	1423.67	1358.63	21.89	
8200.00	7873.46	90.00	267.24	6829.00	35.11	13.01	80.38	1423.54	1355.24	20.84	
8300.00	7973.46	90.00	267.24	6829.00	36.95	13.58	80.37	1423.42	1351.75	19.86	
8400.00	8073.46	90.00	267.24	6829.00	38.90	14.17	80.37	1423.29	1347.90	18.88	
8500.00	8173.46	90.00	267.24	6829.00	40.95	14.77	80.37	1423.16	1343.82	17.94	
8600.00	8273.46	90.00	267.24	6829.00	43.09	15.39	80.37	1423.04	1339.64	17.06	
8700.00	8373.46	90.00	267.24	6829.00	45.30	16.01	80.37	1422.91	1335.15	16.21	
8800.00	8473.46	90.00	267.24	6829.00	47.57	16.65	80.37	1422.79	1330.64	15.44	
8900.00	8573.46	90.00	267.24	6829.00	49.90	17.29	80.37	1422.66	1326.05	14.73	
9000.00	8673.46	90.00	267.24	6829.00	52.27	17.94	80.37	1422.53	1321.37	14.06	
9100.00	8773.46	90.00	267.24	6829.00	54.68	18.59	80.37	1422.41	1316.59	13.44	
9200.00	8873.46	90.00	267.24	6829.00	57.13	19.25	80.37	1422.28	1311.72	12.86	
9300.00	8973.46	90.00	267.24	6829.00	59.61	19.92	80.37	1422.16	1306.78	12.33	
9400.00	9073.46	90.00	267.24	6829.00	62.11	20.59	80.37	1422.03	1301.74	11.82	
9500.00	9173.46	90.00	267.24	6829.00	64.65	21.26	80.36	1421.91	1296.65	11.35	
9600.00	9273.46	90.00	267.24	6829.00	67.20	21.94	80.36	1421.78	1291.51	10.91	
9700.00	9373.46	90.00	267.24	6829.00	69.77	22.62	80.36	1421.65	1286.33	10.51	
9800.00	9473.46	90.00	267.24	6829.00	72.36	23.30	80.36	1421.53	1281.11	10.12	
9900.00	9573.46	90.00	267.24	6829.00	74.96	23.99	80.36	1421.40	1275.86	9.77	
10000.00	9673.46	90.00	267.24	6829.00	77.58	24.68	80.36	1421.28	1270.58	9.43	
10100.00	9773.46	90.00	267.24	6829.00	80.21	25.37	80.36	1421.15	1265.28	9.12	
10200.00	9873.46	90.00	267.24	6829.00	82.85	26.07	80.36	1421.02	1259.95	8.82	
10300.00	9973.46	90.00	267.24	6829.00	85.50	26.77	80.36	1420.90	1254.60	8.54	
10400.00	10073.46	90.00	267.24	6829.00	88.16	27.47	80.36	1420.77	1249.23	8.28	
10500.00	10173.46	90.00	267.24	6829.00	90.83	28.17	80.36	1420.65	1243.84	8.04	
10600.00	10273.46	90.00	267.24	6829.00	93.50	28.87	80.35	1420.52	1238.44	7.80	
10700.00	10373.46	90.00	267.24	6829.00	96.19	29.57	80.35	1420.40	1233.03	7.58	
10800.00	10473.46	90.00	267.24	6829.00	98.88	30.28	80.35	1420.27	1227.60	7.37	
10900.00	10573.46	90.00	267.24	6829.00	101.57	30.98	80.35	1420.14	1222.16	7.17	
11000.00	10673.46	90.00	267.24	6829.00	104.28	31.69	80.35	1420.02	1216.70	6.98	
11100.00	10773.46	90.00	267.24	6829.00	106.98	32.40	80.35	1419.89	1211.24	6.81	
11200.00	10873.46	90.00	267.24	6829.00	109.69	33.11	80.35	1419.77	1205.77	6.63	
11300.00	10973.45	90.00	267.24	6829.00	112.41	33.82	80.35	1419.64	1200.29	6.47	
11400.00	11073.45	90.00	267.24	6829.00	115.13	34.53	80.35	1419.52	1194.80	6.32	
11500.00	11173.45	90.00	267.24	6829.00	117.85	35.24	80.35	1419.39	1189.30	6.17	
11600.00	11273.45	90.00	267.24	6829.00	120.58	35.96	80.35	1419.26	1183.80	6.03	
11700.00	11373.45	90.00	267.24	6829.00	123.31	36.67	80.35	1419.14	1178.29	5.89	
11800.00	11473.45	90.00	267.24	6829.00	126.04	37.39	80.34	1419.01	1172.77	5.76	
11900.00	11573.45	90.00	267.24	6829.00	128.78	38.10	80.34	1418.89	1167.25	5.64	
12000.00	11673.45	90.00	267.24	6829.00	131.52	38.82	80.34	1418.76	1161.72	5.52	
12100.00	11773.45	90.00	267.24	6829.00	134.26	39.54	80.34	1418.63	1156.19	5.41	
12200.00	11873.45	90.00	267.24	6829.00	137.00	40.25	80.34	1418.51	1150.65	5.30	
12300.00	11973.45	90.00	267.24	6829.00	139.75	40.97	80.34	1418.38	1145.11	5.19	
12400.00	12073.45	90.00	267.24	6829.00	142.50	41.69	80.34	1418.26	1139.56	5.09	
12500.00	12173.45	90.00	267.24	6829.00	145.25	42.41	80.34	1418.13	1134.01	4.99	
12600.00	12273.45	90.00	267.24	6829.00	148.00	43.13	80.34	1418.01	1128.46	4.90	
12700.00	12373.45	90.00	267.24	6829.00	150.76	43.85	80.34	1417.88	1122.90	4.81	
12800.00	12473.45	90.00	267.24	6829.00	153.51	44.57	80.34	1417.75	1117.34	4.72	
12900.00	12573.45	90.00	267.24	6829.00	156.27	45.29	80.34	1417.63	1111.78	4.64	
13000.00	12673.45	90.00	267.24	6829.00	159.03	46.01	80.33	1417.50	1106.21	4.55	
13100.00	12773.45	90.00	267.24	6829.00	161.79	46.73	80.33	1417.38	1100.65	4.48	
13200.00	12873.45	90.00	267.24	6829.00	164.55	47.46	80.33	1417.25	1095.07	4.40	
13300.00	12973.45	90.00	267.24	6829.00	167.31	48.18	80.33	1417.13	1089.50	4.33	
13400.00	13073.45	90.00	267.24	6829.00	170.08	48.90	80.33	1417.00	1083.92	4.25	
13500.00	13173.45	90.00	267.24	6829.00	172.84	49.62	80.33	1416.87	1078.34	4.19	
13600.00	13273.45	90.00	267.24	6829.00	175.61	50.35	80.33	1416.75	1072.76	4.12	
13700.00	13373.45	90.00	267.24	6829.00	178.38	51.07	80.33	1416.62	1067.18	4.05	

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
13800.00	13473.45	90.00	267.24	6829.00	181.14	51.80	80.33	1416.50	1061.59	3.99	
13900.00	13573.45	90.00	267.24	6829.00	183.91	52.52	80.33	1416.37	1056.01	3.93	
14000.00	13673.45	90.00	267.24	6829.00	186.68	53.24	80.33	1416.24	1050.42	3.87	
14100.00	13773.45	90.00	267.24	6829.00	189.46	53.97	80.32	1416.12	1044.83	3.81	
14200.00	13873.45	90.00	267.24	6829.00	192.23	54.69	80.32	1415.99	1039.23	3.76	
14300.00	13973.45	90.00	267.24	6829.00	195.00	55.42	80.32	1415.87	1033.64	3.70	
14400.00	14073.45	90.00	267.24	6829.00	197.77	56.14	80.32	1415.74	1028.04	3.65	
14500.00	14173.45	90.00	267.24	6829.00	200.55	56.87	80.32	1415.62	1022.45	3.60	
14600.00	14273.45	90.00	267.24	6829.00	203.32	57.60	80.32	1415.49	1016.85	3.55	
14700.00	14373.45	90.00	267.24	6829.00	206.10	58.32	80.32	1415.36	1011.25	3.50	
14800.00	14473.45	90.00	267.24	6829.00	208.88	59.05	80.32	1415.24	1005.65	3.46	
14900.00	14573.45	90.00	267.24	6829.00	211.65	59.77	80.32	1415.11	1000.04	3.41	
15000.00	14673.45	90.00	267.24	6829.00	214.43	60.50	80.32	1414.99	994.44	3.36	
15100.00	14773.45	90.00	267.24	6829.00	217.21	61.23	80.32	1414.86	988.84	3.32	
15200.00	14873.45	90.00	267.24	6829.00	219.99	61.95	80.32	1414.73	983.23	3.28	
15300.00	14973.45	90.00	267.24	6829.00	222.77	62.68	80.31	1414.61	977.62	3.24	
15400.00	15073.45	90.00	267.24	6829.00	225.55	63.41	80.31	1414.48	972.02	3.20	
15500.00	15173.45	90.00	267.24	6829.00	228.33	64.14	80.31	1414.36	966.41	3.16	
15600.00	15273.45	90.00	267.24	6829.00	231.11	64.86	80.31	1414.23	960.80	3.12	
15700.00	15322.07	90.00	267.24	6829.00	232.46	65.22	80.31	1415.04	958.33	3.10	
15701.00	15322.07	90.00	267.24	6829.00	232.46	65.22	80.31	1415.07	958.36	3.10	
Secondary Well: Goetzel 12N-30B-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
0.00	0.00	0.00	0.00	0.00	0.00	0.00	359.87	100.18	99.45	136.62	
100.00	100.00	0.00	0.00	100.00	0.11	0.11	359.87	100.18	99.23	105.02	
200.00	200.00	0.00	0.00	200.00	0.34	0.34	359.87	100.18	98.78	71.38	
300.00	300.00	0.00	0.00	300.00	0.56	0.56	359.87	100.18	98.33	54.06	
400.00	400.00	0.00	0.00	400.00	0.79	0.79	359.87	100.18	97.88	43.51	
500.00	500.00	0.00	0.00	500.00	1.01	1.01	359.87	100.18	97.43	36.40	
600.00	600.00	0.00	0.00	600.00	1.24	1.24	359.87	100.18	96.98	31.29	
700.00	699.98	0.00	0.00	699.98	1.46	1.46	221.05	101.49	97.87	28.02	
800.00	799.84	0.00	0.00	799.84	1.69	1.69	219.23	105.50	101.46	26.13	
900.00	899.45	0.00	0.00	899.45	1.91	1.91	216.51	112.39	107.92	25.16	
1000.00	998.70	0.00	0.00	998.70	2.13	2.13	213.23	122.42	117.49	24.86	
1100.00	1097.47	0.00	0.00	1097.47	2.35	2.35	209.76	135.81	130.43	25.24	
1200.00	1195.62	0.00	0.00	1195.62	2.58	2.58	206.37	152.72	146.87	26.12	
1300.00	1293.06	0.00	0.00	1293.06	2.79	2.79	203.24	173.24	166.92	27.40	
1400.00	1393.76	1.88	107.85	1393.74	3.00	3.00	200.69	196.44	189.67	28.99	
1500.00	1495.34	3.91	107.85	1495.19	3.20	3.19	199.10	220.90	213.65	30.44	
1600.00	1597.54	5.95	107.85	1597.00	3.42	3.39	198.19	246.29	238.52	31.71	
1700.00	1700.90	8.02	107.85	1699.59	3.65	3.59	197.87	270.25	261.97	32.66	
1800.00	1805.45	10.11	107.85	1802.83	3.92	3.79	198.17	291.82	282.97	32.98	
1900.00	1910.92	12.22	107.85	1906.30	4.24	4.00	198.96	311.02	301.53	32.79	
2000.00	2017.05	14.34	107.85	2009.58	4.61	4.22	200.18	327.89	317.71	32.19	
2100.00	2122.79	16.27	107.85	2111.53	5.05	4.44	201.78	342.58	331.63	31.27	
2200.00	2221.36	16.27	107.85	2206.15	5.50	4.68	203.34	356.57	344.79	30.26	
2300.00	2319.92	16.27	107.85	2300.76	5.97	4.92	204.78	370.80	358.12	29.26	
2400.00	2418.49	16.27	107.85	2395.38	6.47	5.17	206.11	385.24	371.65	28.35	
2500.00	2517.05	16.27	107.85	2490.00	6.98	5.42	207.35	399.87	385.32	27.49	
2600.00	2615.62	16.27	107.85	2584.61	7.51	5.68	208.50	414.67	399.16	26.73	
2700.00	2714.18	16.27	107.85	2679.23	8.04	5.94	209.57	429.62	413.12	26.03	
2800.00	2812.75	16.27	107.85	2773.85	8.58	6.20	210.56	444.72	427.17	25.34	
2900.00	2911.31	16.27	107.85	2868.46	9.13	6.47	211.50	459.93	441.31	24.70	
3000.00	3009.88	16.27	107.85	2963.08	9.69	6.74	212.37	475.26	455.56	24.13	
3100.00	3108.45	16.27	107.85	3057.70	10.25	7.01	213.19	490.69	469.91	23.61	
3200.00	3207.01	16.27	107.85	3152.31	10.81	7.28	213.96	506.21	484.34	23.14	

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
3300.00	3305.58	16.27	107.85	3246.93	11.38	7.56	214.68	521.82	498.84	22.71	
3400.00	3404.14	16.27	107.85	3341.55	11.95	7.83	215.36	537.50	513.42	22.32	
3500.00	3502.71	16.27	107.85	3436.16	12.52	8.11	216.01	553.26	528.07	21.97	
3600.00	3601.27	16.27	107.85	3530.78	13.09	8.39	216.61	569.08	542.78	21.64	
3700.00	3699.84	16.27	107.85	3625.40	13.67	8.67	217.19	584.95	557.54	21.34	
3800.00	3798.40	16.27	107.85	3720.01	14.25	8.95	217.73	600.89	572.34	21.05	
3900.00	3896.97	16.27	107.85	3814.63	14.83	9.23	218.25	616.87	587.18	20.78	
4000.00	3995.54	16.27	107.85	3909.25	15.41	9.52	218.74	632.90	602.05	20.52	
4100.00	4094.10	16.27	107.85	4003.86	15.99	9.80	219.21	648.97	616.95	20.27	
4200.00	4192.67	16.27	107.85	4098.48	16.57	10.08	219.65	665.08	631.89	20.04	
4300.00	4291.23	16.27	107.85	4193.10	17.16	10.37	220.07	681.23	646.87	19.83	
4400.00	4389.80	16.27	107.85	4287.71	17.74	10.65	220.47	697.41	661.88	19.63	
4500.00	4488.36	16.27	107.85	4382.33	18.33	10.94	220.86	713.63	676.92	19.44	
4600.00	4586.93	16.27	107.85	4476.95	18.91	11.23	221.23	729.87	691.98	19.26	
4700.00	4685.49	16.27	107.85	4571.56	19.50	11.51	221.58	746.15	707.08	19.10	
4800.00	4784.06	16.27	107.85	4666.18	20.09	11.80	221.92	762.45	722.20	18.95	
4900.00	4882.63	16.27	107.85	4760.80	20.67	12.09	222.24	778.77	737.35	18.80	
5000.00	4981.19	16.27	107.85	4855.41	21.26	12.38	222.55	795.12	752.51	18.66	
5100.00	5079.76	16.27	107.85	4950.03	21.85	12.67	222.84	811.49	767.70	18.53	
5200.00	5178.32	16.27	107.85	5044.65	22.44	12.96	223.13	827.87	782.91	18.41	
5300.00	5276.89	16.27	107.85	5139.26	23.03	13.25	223.40	844.28	798.14	18.30	
5400.00	5375.45	16.27	107.85	5233.88	23.62	13.54	223.67	860.71	813.38	18.19	
5500.00	5474.02	16.27	107.85	5328.50	24.21	13.82	223.92	877.15	828.65	18.08	
5600.00	5572.58	16.27	107.85	5423.11	24.80	14.12	224.17	893.61	843.92	17.98	
5700.00	5671.15	16.27	107.85	5517.73	25.39	14.41	224.40	910.09	859.22	17.89	
5800.00	5769.72	16.27	107.85	5612.35	25.98	14.70	224.63	926.58	874.52	17.80	
5900.00	5868.28	16.27	107.85	5706.96	26.57	14.99	224.85	943.08	889.84	17.71	
6000.00	5966.85	16.27	107.85	5801.58	27.16	15.28	225.06	959.60	905.18	17.63	
6100.00	6065.41	16.27	107.85	5896.20	27.76	15.57	225.26	976.13	920.52	17.55	
6200.00	6163.98	16.27	107.85	5990.81	28.35	15.86	225.46	992.67	935.88	17.48	
6300.00	6271.52	12.53	115.13	6094.49	28.90	16.17	225.56	1009.03	951.08	17.41	
6400.00	6389.34	6.31	162.19	6210.81	29.13	16.23	224.77	1023.78	965.23	17.49	
6500.00	6500.44	9.56	226.74	6321.02	29.03	15.93	223.08	1037.23	978.78	17.75	
6600.00	6602.12	16.63	245.25	6420.04	28.73	15.36	206.08	1050.81	993.00	18.18	
6700.00	6698.13	23.92	252.31	6510.05	28.32	14.59	175.17	1065.71	1008.88	18.75	
6800.00	6789.70	31.04	256.04	6591.24	27.88	13.67	146.21	1081.59	1025.80	19.39	
6900.00	6877.61	37.95	258.40	6663.65	27.45	12.65	126.36	1097.97	1043.12	20.02	
7000.00	6962.50	44.65	260.07	6727.40	27.09	11.62	113.55	1114.34	1060.30	20.62	
7100.00	7044.91	51.18	261.35	6782.61	26.83	10.64	104.85	1130.20	1076.84	21.18	
7200.00	7125.28	57.55	262.39	6829.41	26.69	9.81	98.58	1145.06	1092.15	21.64	
7300.00	7203.95	63.80	263.27	6867.92	26.69	9.21	93.90	1158.49	1105.72	21.95	
7400.00	7281.24	69.94	264.06	6898.27	26.88	8.97	90.35	1170.09	1117.10	22.08	
7500.00	7357.39	75.99	264.77	6920.57	27.22	9.10	87.69	1179.54	1125.85	21.97	
7600.00	7432.62	81.97	265.43	6934.94	27.70	9.61	85.78	1186.55	1131.76	21.66	
7700.00	7507.11	87.90	266.07	6941.52	28.30	10.42	84.54	1190.92	1134.70	21.18	
7800.00	7597.74	90.00	266.30	6942.00	29.18	11.07	83.97	1192.04	1134.20	20.61	
7900.00	7697.72	90.00	266.30	6942.00	30.35	11.55	83.97	1190.30	1130.36	19.86	
8000.00	7797.70	90.00	266.30	6942.00	31.72	12.07	83.96	1188.53	1126.03	19.02	
8100.00	7897.69	90.00	266.30	6942.00	33.27	12.60	83.95	1186.77	1121.35	18.14	
8200.00	7997.67	90.00	266.30	6942.00	34.98	13.16	83.94	1185.00	1116.28	17.24	
8300.00	8097.66	90.00	266.30	6942.00	36.82	13.73	83.93	1183.23	1111.03	16.39	
8400.00	8197.64	90.00	266.30	6942.00	38.77	14.32	83.93	1181.47	1105.53	15.56	
8500.00	8297.62	90.00	266.30	6942.00	40.82	14.92	83.92	1179.70	1099.82	14.77	
8600.00	8397.61	90.00	266.30	6942.00	42.96	15.54	83.91	1177.93	1093.84	14.01	
8700.00	8497.59	90.00	266.30	6942.00	45.16	16.16	83.90	1176.17	1087.75	13.30	
8800.00	8597.58	90.00	266.30	6942.00	47.43	16.79	83.89	1174.40	1081.50	12.64	
8900.00	8697.56	90.00	266.30	6942.00	49.75	17.43	83.88	1172.63	1075.18	12.03	
9000.00	8797.55	90.00	266.30	6942.00	52.12	18.08	83.87	1170.87	1068.76	11.47	

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
9100.00	8897.53	90.00	266.30	6942.00	54.53	18.73	83.86	1169.10	1062.26	10.94	
9200.00	8997.51	90.00	266.30	6942.00	56.98	19.39	83.85	1167.33	1055.68	10.45	
9300.00	9097.50	90.00	266.30	6942.00	59.45	20.06	83.84	1165.57	1049.02	10.00	
9400.00	9197.48	90.00	266.30	6942.00	61.96	20.73	83.83	1163.80	1042.31	9.58	
9500.00	9297.47	90.00	266.30	6942.00	64.48	21.40	83.82	1162.03	1035.54	9.19	
9600.00	9397.45	90.00	266.30	6942.00	67.03	22.08	83.81	1160.27	1028.72	8.82	
9700.00	9497.44	90.00	266.30	6942.00	69.60	22.76	83.80	1158.50	1021.86	8.48	
9800.00	9597.42	90.00	266.30	6942.00	72.18	23.44	83.80	1156.73	1014.96	8.16	
9900.00	9697.40	90.00	266.30	6942.00	74.78	24.13	83.79	1154.97	1008.04	7.86	
10000.00	9797.39	90.00	266.30	6942.00	77.39	24.82	83.78	1153.20	1001.08	7.58	
10100.00	9897.37	90.00	266.30	6942.00	80.02	25.51	83.77	1151.44	994.10	7.32	
10200.00	9997.36	90.00	266.30	6942.00	82.66	26.20	83.76	1149.67	987.09	7.07	
10300.00	10097.34	90.00	266.30	6942.00	85.30	26.90	83.75	1147.90	980.07	6.84	
10400.00	10197.32	90.00	266.30	6942.00	87.96	27.60	83.74	1146.14	973.02	6.62	
10500.00	10297.31	90.00	266.30	6942.00	90.62	28.30	83.73	1144.37	965.96	6.41	
10600.00	10397.29	90.00	266.30	6942.00	93.30	29.00	83.72	1142.60	958.88	6.22	
10700.00	10497.28	90.00	266.30	6942.00	95.97	29.70	83.71	1140.84	951.79	6.03	
10800.00	10597.26	90.00	266.30	6942.00	98.66	30.40	83.70	1139.07	944.69	5.86	
10900.00	10697.25	90.00	266.30	6942.00	101.35	31.11	83.69	1137.31	937.57	5.69	
11000.00	10797.23	90.00	266.30	6942.00	104.05	31.82	83.68	1135.54	930.44	5.54	
11100.00	10897.21	90.00	266.30	6942.00	106.75	32.53	83.67	1133.77	923.31	5.39	
11200.00	10997.20	90.00	266.30	6942.00	109.46	33.23	83.66	1132.01	916.16	5.24	
11300.00	11097.18	90.00	266.30	6942.00	112.17	33.94	83.65	1130.24	909.01	5.11	
11400.00	11197.17	90.00	266.30	6942.00	114.88	34.66	83.64	1128.48	901.84	4.98	
11500.00	11297.15	90.00	266.30	6942.00	117.60	35.37	83.63	1126.71	894.67	4.86	
11600.00	11397.14	90.00	266.30	6942.00	120.32	36.08	83.62	1124.94	887.50	4.74	
11700.00	11497.12	90.00	266.30	6942.00	123.05	36.79	83.61	1123.18	880.31	4.62	
11800.00	11597.10	90.00	266.30	6942.00	125.78	37.51	83.60	1121.41	873.12	4.52	
11900.00	11697.09	90.00	266.30	6942.00	128.51	38.22	83.59	1119.65	865.93	4.41	
12000.00	11797.07	90.00	266.30	6942.00	131.24	38.94	83.58	1117.88	858.73	4.31	
12100.00	11897.06	90.00	266.30	6942.00	133.98	39.66	83.57	1116.12	851.53	4.22	
12200.00	11997.04	90.00	266.30	6942.00	136.72	40.37	83.56	1114.35	844.32	4.13	
12300.00	12097.02	90.00	266.30	6942.00	139.46	41.09	83.55	1112.58	837.10	4.04	
12400.00	12197.01	90.00	266.30	6942.00	142.21	41.81	83.54	1110.82	829.89	3.95	
12500.00	12296.99	90.00	266.30	6942.00	144.95	42.53	83.53	1109.05	822.66	3.87	
12600.00	12396.98	90.00	266.30	6942.00	147.70	43.25	83.52	1107.29	815.44	3.79	
12700.00	12496.96	90.00	266.30	6942.00	150.45	43.97	83.51	1105.52	808.21	3.72	
12800.00	12596.95	90.00	266.30	6942.00	153.20	44.69	83.50	1103.76	800.98	3.65	
12900.00	12696.93	90.00	266.30	6942.00	155.95	45.41	83.49	1101.99	793.75	3.58	
13000.00	12796.91	90.00	266.30	6942.00	158.70	46.13	83.48	1100.23	786.51	3.51	
13100.00	12896.90	90.00	266.30	6942.00	161.46	46.85	83.46	1098.46	779.27	3.44	
13200.00	12996.88	90.00	266.30	6942.00	164.22	47.57	83.45	1096.70	772.03	3.38	
13300.00	13096.87	90.00	266.30	6942.00	166.97	48.29	83.44	1094.93	764.79	3.32	
13400.00	13196.85	90.00	266.30	6942.00	169.73	49.02	83.43	1093.16	757.54	3.26	
13500.00	13296.84	90.00	266.30	6942.00	172.49	49.74	83.42	1091.40	750.29	3.20	
13600.00	13396.82	90.00	266.30	6942.00	175.26	50.46	83.41	1089.63	743.05	3.14	
13700.00	13496.80	90.00	266.30	6942.00	178.02	51.18	83.40	1087.87	735.79	3.09	
13800.00	13596.79	90.00	266.30	6942.00	180.78	51.91	83.39	1086.10	728.54	3.04	
13900.00	13696.77	90.00	266.30	6942.00	183.55	52.63	83.38	1084.34	721.29	2.99	
14000.00	13796.76	90.00	266.30	6942.00	186.31	53.36	83.37	1082.57	714.03	2.94	
14100.00	13896.74	90.00	266.30	6942.00	189.08	54.08	83.36	1080.81	706.77	2.89	
14200.00	13996.72	90.00	266.30	6942.00	191.84	54.80	83.35	1079.04	699.51	2.84	
14300.00	14096.71	90.00	266.30	6942.00	194.61	55.53	83.34	1077.28	692.25	2.80	
14400.00	14196.69	90.00	266.30	6942.00	197.38	56.25	83.32	1075.52	684.99	2.75	
14500.00	14296.68	90.00	266.30	6942.00	200.15	56.98	83.31	1073.75	677.73	2.71	
14600.00	14396.66	90.00	266.30	6942.00	202.92	57.70	83.30	1071.99	670.46	2.67	
14700.00	14496.65	90.00	266.30	6942.00	205.69	58.43	83.29	1070.22	663.20	2.63	
14800.00	14596.63	90.00	266.30	6942.00	208.46	59.16	83.28	1068.46	655.93	2.59	

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
14900.00	14696.61	90.00	266.30	6942.00	211.24	59.88	83.27	1066.69	648.67	2.55	
15000.00	14796.60	90.00	266.30	6942.00	214.01	60.61	83.26	1064.93	641.40	2.51	
15100.00	14896.58	90.00	266.30	6942.00	216.78	61.33	83.25	1063.16	634.13	2.48	SF(Lo)
15200.00	14996.57	90.00	266.30	6942.00	219.56	62.06	83.24	1061.40	626.86	2.44	SF(Lo)
15300.00	15096.55	90.00	266.30	6942.00	222.33	62.79	83.22	1059.63	619.59	2.41	SF(Lo)
15400.00	15196.54	90.00	266.30	6942.00	225.11	63.51	83.21	1057.87	612.32	2.37	SF(Lo)
15500.00	15296.52	90.00	266.30	6942.00	227.88	64.24	83.20	1056.10	605.05	2.34	SF(Lo)
15600.00	15396.50	90.00	266.30	6942.00	230.66	64.97	83.19	1054.34	597.78	2.31	SF(Lo)
15700.00	15440.87	90.00	266.30	6942.00	231.89	65.29	83.18	1054.04	594.75	2.29	SF(Lo)
15701.00	15440.87	90.00	266.30	6942.00	231.89	65.29	83.18	1054.08	594.79	2.30	SF(Lo)
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	359.95	80.15	79.41	109.30	
100.00	100.00	0.00	0.00	100.00	0.11	0.11	359.95	80.15	79.19	84.02	
200.00	200.00	0.00	0.00	200.00	0.34	0.34	359.95	80.15	78.74	57.11	
300.00	300.00	0.00	0.00	300.00	0.56	0.56	359.95	80.15	78.30	43.25	
400.00	400.00	0.00	0.00	400.00	0.79	0.79	359.95	80.15	77.85	34.81	
500.00	500.00	0.00	0.00	500.00	1.01	1.01	359.95	80.15	77.40	29.12	
600.00	600.00	0.00	0.00	600.00	1.24	1.24	359.95	80.15	76.95	25.03	
700.00	699.98	0.00	0.00	699.98	1.46	1.46	220.96	81.46	77.84	22.49	
800.00	799.84	0.00	0.00	799.84	1.69	1.69	218.72	85.48	81.44	21.18	
900.00	899.45	0.00	0.00	899.45	1.91	1.91	215.42	92.45	87.98	20.68	
1000.00	998.70	0.00	0.00	998.70	2.13	2.13	211.59	102.64	97.72	20.86	
1100.00	1097.47	0.00	0.00	1097.47	2.35	2.35	207.69	116.28	110.92	21.67	
1200.00	1197.13	0.94	115.27	1197.13	2.57	2.57	204.10	133.26	127.43	22.85	
1300.00	1298.78	2.98	115.27	1298.71	2.76	2.76	201.62	151.71	145.44	24.19	
1400.00	1400.99	5.02	115.27	1400.67	2.97	2.95	200.11	171.03	164.30	25.40	
1500.00	1503.74	7.07	115.27	1502.84	3.19	3.15	199.32	191.06	183.84	26.48	
1600.00	1607.04	9.14	115.27	1605.11	3.45	3.35	199.02	211.59	203.84	27.30	
1700.00	1711.30	11.23	115.27	1707.72	3.75	3.56	199.24	230.34	222.03	27.71	
1800.00	1816.48	13.33	115.27	1810.48	4.10	3.78	200.02	246.42	237.48	27.56	
1900.00	1922.29	15.45	115.27	1912.97	4.51	4.00	201.30	259.87	250.21	26.90	
2000.00	2023.13	15.98	115.27	2009.95	4.97	4.24	202.78	271.55	261.11	26.02	
2100.00	2122.22	15.98	115.27	2105.21	5.44	4.48	204.14	283.31	272.07	25.20	
2200.00	2221.31	15.98	115.27	2200.48	5.93	4.73	205.39	295.22	283.12	24.40	
2300.00	2320.40	15.98	115.27	2295.74	6.45	4.98	206.54	307.26	294.27	23.66	
2400.00	2419.49	15.98	115.27	2391.00	6.97	5.24	207.61	319.40	305.49	22.96	
2500.00	2518.58	15.98	115.27	2486.26	7.50	5.50	208.60	331.66	316.79	22.31	
2600.00	2617.67	15.98	115.27	2581.52	8.04	5.77	209.52	344.00	328.17	21.73	
2700.00	2716.76	15.98	115.27	2676.78	8.59	6.04	210.37	356.42	339.60	21.20	
2800.00	2815.85	15.98	115.27	2772.05	9.14	6.31	211.17	368.91	351.08	20.69	
2900.00	2914.94	15.98	115.27	2867.31	9.70	6.58	211.91	381.47	362.62	20.24	
3000.00	3014.03	15.98	115.27	2962.57	10.26	6.86	212.61	394.09	374.21	19.82	
3100.00	3113.12	15.98	115.27	3057.83	10.83	7.13	213.26	406.76	385.85	19.45	
3200.00	3212.21	15.98	115.27	3153.09	11.39	7.41	213.87	419.49	397.51	19.09	
3300.00	3311.30	15.98	115.27	3248.36	11.96	7.69	214.45	432.25	409.21	18.75	
3400.00	3410.39	15.98	115.27	3343.62	12.53	7.97	215.00	445.06	420.94	18.45	
3500.00	3509.48	15.98	115.27	3438.88	13.11	8.25	215.51	457.91	432.71	18.17	
3600.00	3608.57	15.98	115.27	3534.14	13.68	8.53	216.00	470.79	444.51	17.91	
3700.00	3707.66	15.98	115.27	3629.40	14.26	8.82	216.46	483.70	456.33	17.68	
3800.00	3806.75	15.98	115.27	3724.67	14.83	9.10	216.89	496.64	468.19	17.46	
3900.00	3905.84	15.98	115.27	3819.93	15.41	9.38	217.31	509.61	480.06	17.25	
4000.00	4004.93	15.98	115.27	3915.19	15.99	9.67	217.70	522.60	491.94	17.05	
4100.00	4104.02	15.98	115.27	4010.45	16.57	9.95	218.08	535.61	503.84	16.86	
4200.00	4203.11	15.98	115.27	4105.71	17.15	10.24	218.43	548.65	515.76	16.68	
4300.00	4302.20	15.98	115.27	4200.97	17.73	10.53	218.77	561.71	527.70	16.52	

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
4400.00	4401.29	15.98	115.27	4296.24	18.31	10.82	219.10	574.78	539.65	16.36	
4500.00	4500.38	15.98	115.27	4391.50	18.89	11.10	219.41	587.88	551.62	16.21	
4600.00	4599.47	15.98	115.27	4486.76	19.47	11.39	219.70	600.98	563.61	16.08	
4700.00	4698.56	15.98	115.27	4582.02	20.06	11.68	219.99	614.11	575.61	15.95	
4800.00	4797.65	15.98	115.27	4677.28	20.64	11.97	220.26	627.25	587.62	15.83	
4900.00	4896.74	15.98	115.27	4772.55	21.22	12.26	220.52	640.40	599.64	15.71	
5000.00	4995.83	15.98	115.27	4867.81	21.81	12.55	220.77	653.56	611.68	15.60	
5100.00	5094.92	15.98	115.27	4963.07	22.39	12.84	221.01	666.74	623.73	15.50	
5200.00	5194.01	15.98	115.27	5058.33	22.98	13.13	221.24	679.93	635.79	15.40	
5300.00	5293.10	15.98	115.27	5153.59	23.56	13.42	221.47	693.12	647.85	15.31	
5400.00	5392.19	15.98	115.27	5248.86	24.15	13.71	221.68	706.33	659.93	15.22	
5500.00	5491.28	15.98	115.27	5344.12	24.73	14.00	221.89	719.55	672.02	15.14	
5600.00	5590.37	15.98	115.27	5439.38	25.32	14.29	222.09	732.77	684.11	15.06	
5700.00	5689.46	15.98	115.27	5534.64	25.90	14.58	222.28	746.01	696.21	14.98	
5800.00	5788.55	15.98	115.27	5629.90	26.49	14.87	222.46	759.25	708.32	14.91	
5900.00	5887.64	15.98	115.27	5725.16	27.07	15.16	222.64	772.50	720.44	14.84	
6000.00	5986.73	15.98	115.27	5820.43	27.66	15.45	222.81	785.76	732.56	14.77	
6100.00	6085.82	15.98	115.27	5915.69	28.25	15.74	222.98	799.02	744.69	14.71	
6200.00	6184.91	15.98	115.27	6010.95	28.83	16.04	223.14	812.29	756.83	14.65	
6300.00	6284.00	15.98	115.27	6106.21	29.42	16.33	223.30	825.57	768.97	14.59	
6400.00	6383.09	15.98	115.27	6201.47	30.01	16.62	223.45	838.85	781.11	14.53	
6500.00	6491.57	10.15	136.62	6306.97	30.37	16.86	223.20	851.67	793.09	14.54	
6600.00	6599.27	8.08	191.83	6413.49	30.37	16.81	207.35	863.69	804.96	14.71	
6700.00	6704.30	13.06	230.48	6516.82	30.08	16.47	177.51	875.95	817.56	15.00	
6800.00	6806.87	20.22	244.84	6615.08	29.57	15.86	149.52	888.30	830.55	15.38	
6900.00	6907.15	27.77	251.60	6706.64	28.94	15.01	130.56	900.50	843.59	15.83	
7000.00	7005.31	35.35	255.54	6790.23	28.28	13.96	118.56	912.30	856.31	16.29	
7100.00	7101.55	42.87	258.19	6864.86	27.67	12.79	110.56	923.44	868.20	16.72	
7200.00	7196.05	50.29	260.15	6929.77	27.19	11.58	104.89	933.67	879.04	17.09	
7300.00	7289.00	57.62	261.70	6984.42	26.90	10.48	100.71	942.77	888.46	17.36	
7400.00	7380.57	64.86	262.99	7028.46	26.85	9.67	97.56	950.50	896.16	17.49	
7500.00	7470.94	72.01	264.13	7061.65	27.05	9.32	95.20	956.69	901.89	17.46	
7600.00	7560.26	79.09	265.17	7083.92	27.49	9.55	93.48	961.18	905.47	17.26	
7700.00	7648.67	86.09	266.14	7095.32	28.15	10.35	92.34	963.84	906.83	16.91	
7800.00	7741.77	90.00	266.68	7097.00	29.01	11.20	91.78	964.47	905.80	16.44	
7900.00	7841.76	90.00	266.68	7097.00	30.11	11.67	91.78	963.38	902.51	15.83	
8000.00	7941.76	90.00	266.68	7097.00	31.42	12.18	91.79	962.27	898.88	15.18	
8100.00	8041.75	90.00	266.68	7097.00	32.92	12.71	91.79	961.16	894.96	14.52	
8200.00	8141.74	90.00	266.68	7097.00	34.58	13.25	91.79	960.05	890.70	13.84	
8300.00	8241.74	90.00	266.68	7097.00	36.37	13.82	91.79	958.94	886.02	13.15	
8400.00	8341.73	90.00	266.68	7097.00	38.29	14.41	91.79	957.83	881.14	12.49	
8500.00	8441.73	90.00	266.68	7097.00	40.31	15.00	91.80	956.72	876.09	11.87	
8600.00	8541.72	90.00	266.68	7097.00	42.42	15.61	91.80	955.61	870.72	11.26	
8700.00	8641.71	90.00	266.68	7097.00	44.60	16.23	91.80	954.50	865.30	10.70	
8800.00	8741.71	90.00	266.68	7097.00	46.85	16.86	91.80	953.39	859.68	10.17	
8900.00	8841.70	90.00	266.68	7097.00	49.16	17.50	91.81	952.28	854.01	9.69	
9000.00	8941.70	90.00	266.68	7097.00	51.51	18.15	91.81	951.16	848.25	9.24	
9100.00	9041.69	90.00	266.68	7097.00	53.91	18.80	91.81	950.05	842.40	8.83	
9200.00	9141.68	90.00	266.68	7097.00	56.34	19.46	91.81	948.94	836.47	8.44	
9300.00	9241.68	90.00	266.68	7097.00	58.81	20.12	91.81	947.83	830.46	8.08	
9400.00	9341.67	90.00	266.68	7097.00	61.31	20.79	91.82	946.72	824.39	7.74	
9500.00	9441.66	90.00	266.68	7097.00	63.83	21.46	91.82	945.61	818.27	7.43	
9600.00	9541.66	90.00	266.68	7097.00	66.37	22.13	91.82	944.50	812.10	7.13	
9700.00	9641.65	90.00	266.68	7097.00	68.93	22.81	91.82	943.39	805.88	6.86	
9800.00	9741.65	90.00	266.68	7097.00	71.51	23.49	91.82	942.28	799.62	6.61	
9900.00	9841.64	90.00	266.68	7097.00	74.11	24.18	91.83	941.17	793.34	6.37	
10000.00	9941.63	90.00	266.68	7097.00	76.72	24.87	91.83	940.06	787.02	6.14	
10100.00	10041.63	90.00	266.68	7097.00	79.34	25.56	91.83	938.95	780.67	5.93	

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
10200.00	10141.62	90.00	266.68	7097.00	81.97	26.25	91.83	937.84	774.30	5.73	
10300.00	10241.61	90.00	266.68	7097.00	84.62	26.95	91.84	936.73	767.91	5.55	
10400.00	10341.61	90.00	266.68	7097.00	87.27	27.64	91.84	935.62	761.50	5.37	
10500.00	10441.60	90.00	266.68	7097.00	89.93	28.34	91.84	934.51	755.07	5.21	
10600.00	10541.60	90.00	266.68	7097.00	92.61	29.04	91.84	933.40	748.63	5.05	
10700.00	10641.59	90.00	266.68	7097.00	95.28	29.74	91.84	932.29	742.16	4.90	
10800.00	10741.58	90.00	266.68	7097.00	97.97	30.45	91.85	931.18	735.69	4.76	
10900.00	10841.58	90.00	266.68	7097.00	100.66	31.15	91.85	930.07	729.20	4.63	
11000.00	10941.57	90.00	266.68	7097.00	103.36	31.86	91.85	928.96	722.70	4.50	
11100.00	11041.57	90.00	266.68	7097.00	106.06	32.56	91.85	927.85	716.20	4.38	
11200.00	11141.56	90.00	266.68	7097.00	108.77	33.27	91.86	926.74	709.68	4.27	
11300.00	11241.55	90.00	266.68	7097.00	111.48	33.98	91.86	925.63	703.15	4.16	
11400.00	11341.55	90.00	266.68	7097.00	114.19	34.69	91.86	924.52	696.61	4.06	
11500.00	11441.54	90.00	266.68	7097.00	116.91	35.40	91.86	923.41	690.07	3.96	
11600.00	11541.53	90.00	266.68	7097.00	119.64	36.12	91.86	922.30	683.51	3.86	
11700.00	11641.53	90.00	266.68	7097.00	122.36	36.83	91.87	921.19	676.96	3.77	
11800.00	11741.52	90.00	266.68	7097.00	125.09	37.54	91.87	920.08	670.39	3.68	
11900.00	11841.52	90.00	266.68	7097.00	127.82	38.26	91.87	918.97	663.82	3.60	
12000.00	11941.51	90.00	266.68	7097.00	130.56	38.97	91.87	917.86	657.24	3.52	
12100.00	12041.50	90.00	266.68	7097.00	133.30	39.69	91.88	916.74	650.66	3.45	
12200.00	12141.50	90.00	266.68	7097.00	136.04	40.40	91.88	915.63	644.07	3.37	
12300.00	12241.49	90.00	266.68	7097.00	138.78	41.12	91.88	914.52	637.48	3.30	
12400.00	12341.49	90.00	266.68	7097.00	141.53	41.84	91.88	913.41	630.88	3.23	
12500.00	12441.48	90.00	266.68	7097.00	144.27	42.56	91.88	912.30	624.28	3.17	
12600.00	12541.47	90.00	266.68	7097.00	147.02	43.28	91.89	911.19	617.68	3.10	
12700.00	12641.47	90.00	266.68	7097.00	149.77	43.99	91.89	910.08	611.07	3.04	
12800.00	12741.46	90.00	266.68	7097.00	152.52	44.71	91.89	908.97	604.46	2.98	
12900.00	12841.45	90.00	266.68	7097.00	155.28	45.43	91.89	907.86	597.84	2.93	
13000.00	12941.45	90.00	266.68	7097.00	158.03	46.15	91.90	906.75	591.23	2.87	
13100.00	13041.44	90.00	266.68	7097.00	160.79	46.88	91.90	905.64	584.60	2.82	
13200.00	13141.44	90.00	266.68	7097.00	163.55	47.60	91.90	904.53	577.98	2.77	
13300.00	13241.43	90.00	266.68	7097.00	166.31	48.32	91.90	903.42	571.35	2.72	
13400.00	13341.42	90.00	266.68	7097.00	169.07	49.04	91.91	902.31	564.72	2.67	
13500.00	13441.42	90.00	266.68	7097.00	171.83	49.76	91.91	901.20	558.09	2.63	
13600.00	13541.41	90.00	266.68	7097.00	174.59	50.48	91.91	900.09	551.46	2.58	
13700.00	13641.41	90.00	266.68	7097.00	177.36	51.21	91.91	898.98	544.82	2.54	
13800.00	13741.40	90.00	266.68	7097.00	180.12	51.93	91.91	897.87	538.18	2.50	SF(Lo)
13900.00	13841.39	90.00	266.68	7097.00	182.89	52.65	91.92	896.76	531.54	2.46	SF(Lo)
14000.00	13941.39	90.00	266.68	7097.00	185.66	53.38	91.92	895.65	524.90	2.42	SF(Lo)
14100.00	14041.38	90.00	266.68	7097.00	188.42	54.10	91.92	894.54	518.26	2.38	SF(Lo)
14200.00	14141.37	90.00	266.68	7097.00	191.19	54.83	91.92	893.43	511.61	2.34	SF(Lo)
14300.00	14241.37	90.00	266.68	7097.00	193.96	55.55	91.93	892.32	504.97	2.30	SF(Lo)
14400.00	14341.36	90.00	266.68	7097.00	196.73	56.27	91.93	891.21	498.32	2.27	SF(Lo)
14500.00	14441.36	90.00	266.68	7097.00	199.51	57.00	91.93	890.10	491.67	2.23	SF(Lo)
14600.00	14541.35	90.00	266.68	7097.00	202.28	57.72	91.93	888.99	485.01	2.20	SF(Lo)
14700.00	14641.34	90.00	266.68	7097.00	205.05	58.45	91.94	887.88	478.36	2.17	SF(Lo)
14800.00	14741.34	90.00	266.68	7097.00	207.82	59.18	91.94	886.77	471.71	2.14	SF(Lo)
14900.00	14841.33	90.00	266.68	7097.00	210.60	59.90	91.94	885.66	465.05	2.11	SF(Lo)
15000.00	14941.32	90.00	266.68	7097.00	213.37	60.63	91.94	884.55	458.39	2.08	SF(Lo)
15100.00	15041.32	90.00	266.68	7097.00	216.15	61.35	91.95	883.44	451.73	2.05	SF(Lo)
15200.00	15141.31	90.00	266.68	7097.00	218.92	62.08	91.95	882.33	445.07	2.02	SF(Lo)
15300.00	15241.31	90.00	266.68	7097.00	221.70	62.81	91.95	881.22	438.41	1.99	SF(Lo)
15400.00	15341.30	90.00	266.68	7097.00	224.48	63.53	91.95	880.11	431.75	1.96	SF(Lo)
15500.00	15441.29	90.00	266.68	7097.00	227.25	64.26	91.96	879.00	425.09	1.94	SF(Lo)
15600.00	15541.29	90.00	266.68	7097.00	230.03	64.99	91.96	877.89	418.43	1.91	SF(Lo)
15700.00	15600.60	90.00	266.68	7097.00	231.68	65.42	91.96	877.72	415.00	1.90	SF(Lo)
15701.00	15600.60	90.00	266.68	7097.00	231.68	65.42	91.96	877.75	415.05	1.90	SF(Lo)

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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	359.82	60.11	59.38	81.97	CC (Lo)
100.00	100.00	0.00	0.00	100.00	0.11	0.11	359.82	60.11	59.16	63.01	CC (Lo)
200.00	200.00	0.00	0.00	200.00	0.34	0.34	359.82	60.11	58.71	42.83	CC (Lo)
300.00	300.00	0.00	0.00	300.00	0.56	0.56	359.82	60.11	58.26	32.44	CC (Lo)
400.00	400.00	0.00	0.00	400.00	0.79	0.79	359.82	60.11	57.81	26.11	CC (Lo)
500.00	500.00	0.00	0.00	500.00	1.01	1.01	359.82	60.11	57.36	21.84	CC (Lo)
600.00	600.00	0.00	0.00	600.00	1.24	1.24	359.82	60.11	56.91	18.77	CC (Lo)
700.00	699.98	0.00	0.00	699.98	1.46	1.46	220.57	61.43	57.80	16.95	CC (Lo)
800.00	799.84	0.00	0.00	799.84	1.69	1.69	217.64	65.49	61.46	16.24	CC (Lo)
900.00	899.45	0.00	0.00	899.45	1.91	1.91	213.52	72.59	68.12	16.22	
1000.00	998.70	0.00	0.00	998.70	2.13	2.13	208.98	83.04	78.13	16.91	
1100.00	1100.07	2.00	123.78	1100.05	2.34	2.34	205.17	95.73	90.38	17.89	
1200.00	1201.94	4.04	123.78	1201.77	2.53	2.53	202.69	109.11	103.34	18.91	
1300.00	1304.27	6.09	123.78	1303.70	2.75	2.72	201.16	123.00	116.79	19.80	
1400.00	1407.06	8.14	123.78	1405.69	2.99	2.92	200.29	137.28	130.57	20.46	
1500.00	1510.30	10.21	123.78	1507.60	3.26	3.12	199.93	151.88	144.67	21.05	
1600.00	1613.99	12.28	123.78	1609.30	3.59	3.34	199.93	166.66	158.88	21.42	
1700.00	1718.40	14.37	123.78	1710.90	3.98	3.56	200.44	179.33	170.93	21.36	
1800.00	1823.42	16.47	123.78	1812.13	4.44	3.79	201.54	189.04	179.96	20.83	
1900.00	1925.97	17.55	123.78	1910.05	4.96	4.03	203.08	196.21	186.38	19.96	
2000.00	2025.60	17.55	123.78	2005.04	5.49	4.29	204.55	203.13	192.48	19.08	
2100.00	2125.22	17.55	123.78	2100.03	6.05	4.55	205.93	210.17	198.63	18.21	
2200.00	2224.85	17.55	123.78	2195.02	6.63	4.82	207.22	217.33	204.87	17.44	
2300.00	2324.48	17.55	123.78	2290.01	7.21	5.09	208.43	224.59	211.19	16.76	
2400.00	2424.11	17.55	123.78	2385.00	7.81	5.37	209.56	231.94	217.58	16.15	
2500.00	2523.74	17.55	123.78	2479.99	8.41	5.65	210.62	239.38	224.03	15.59	
2600.00	2623.36	17.55	123.78	2574.98	9.02	5.93	211.61	246.89	230.48	15.04	
2700.00	2722.99	17.55	123.78	2669.97	9.64	6.22	212.55	254.48	236.99	14.55	
2800.00	2822.62	17.55	123.78	2764.96	10.26	6.50	213.43	262.12	243.55	14.11	
2900.00	2922.25	17.55	123.78	2859.95	10.88	6.79	214.26	269.83	250.16	13.72	
3000.00	3021.88	17.55	123.78	2954.94	11.50	7.09	215.05	277.59	256.82	13.36	
3100.00	3121.50	17.55	123.78	3049.93	12.13	7.38	215.79	285.40	263.52	13.04	
3200.00	3221.13	17.55	123.78	3144.92	12.76	7.67	216.50	293.25	270.26	12.75	
3300.00	3320.76	17.55	123.78	3239.91	13.39	7.97	217.16	301.15	277.03	12.49	
3400.00	3420.39	17.55	123.78	3334.90	14.02	8.26	217.80	309.08	283.84	12.25	
3500.00	3520.02	17.55	123.78	3429.89	14.65	8.56	218.40	317.05	290.65	12.01	
3600.00	3619.64	17.55	123.78	3524.88	15.29	8.86	218.97	325.05	297.47	11.78	
3700.00	3719.27	17.55	123.78	3619.87	15.92	9.16	219.51	333.08	304.31	11.58	
3800.00	3818.90	17.55	123.78	3714.86	16.56	9.46	220.03	341.15	311.18	11.38	
3900.00	3918.53	17.55	123.78	3809.85	17.19	9.76	220.53	349.23	318.07	11.21	
4000.00	4018.16	17.55	123.78	3904.84	17.83	10.06	221.00	357.35	324.98	11.04	
4100.00	4117.79	17.55	123.78	3999.82	18.47	10.36	221.45	365.48	331.92	10.89	
4200.00	4217.41	17.55	123.78	4094.81	19.11	10.66	221.88	373.64	338.87	10.75	
4300.00	4317.04	17.55	123.78	4189.80	19.75	10.96	222.29	381.82	345.84	10.61	
4400.00	4416.67	17.55	123.78	4284.79	20.39	11.26	222.69	390.01	352.83	10.49	
4500.00	4516.30	17.55	123.78	4379.78	21.03	11.57	223.07	398.23	359.83	10.37	
4600.00	4615.93	17.55	123.78	4474.77	21.67	11.87	223.43	406.46	366.85	10.26	
4700.00	4715.55	17.55	123.78	4569.76	22.31	12.17	223.78	414.71	373.89	10.16	
4800.00	4815.18	17.55	123.78	4664.75	22.95	12.48	224.12	422.97	380.94	10.06	
4900.00	4914.81	17.55	123.78	4759.74	23.59	12.78	224.44	431.24	388.00	9.97	
5000.00	5014.44	17.55	123.78	4854.73	24.23	13.09	224.75	439.53	395.07	9.89	
5100.00	5114.07	17.55	123.78	4949.72	24.87	13.39	225.05	447.83	402.15	9.80	
5200.00	5213.69	17.55	123.78	5044.71	25.52	13.70	225.34	456.14	409.25	9.73	
5300.00	5313.32	17.55	123.78	5139.70	26.16	14.00	225.62	464.47	416.35	9.65	
5400.00	5412.95	17.55	123.78	5234.69	26.80	14.31	225.89	472.80	423.47	9.58	
5500.00	5512.58	17.55	123.78	5329.68	27.44	14.61	226.15	481.14	430.59	9.52	
5600.00	5612.21	17.55	123.78	5424.67	28.09	14.92	226.40	489.50	437.73	9.46	
5700.00	5711.84	17.55	123.78	5519.66	28.73	15.22	226.64	497.86	444.87	9.40	

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
5800.00	5811.46	17.55	123.78	5614.65	29.37	15.53	226.87	506.23	452.02	9.34	
5900.00	5911.09	17.55	123.78	5709.64	30.02	15.83	227.10	514.61	459.18	9.28	
6000.00	6010.72	17.55	123.78	5804.63	30.66	16.14	227.32	523.00	466.34	9.23	
6100.00	6110.35	17.55	123.78	5899.62	31.30	16.45	227.53	531.39	473.50	9.18	
6200.00	6209.98	17.55	123.78	5994.61	31.95	16.75	227.73	539.79	480.66	9.13	
6300.00	6316.06	14.27	134.73	6096.22	32.50	17.06	227.72	547.91	487.68	9.10	
6400.00	6426.95	10.55	173.33	6204.67	32.56	17.16	226.19	554.14	493.82	9.19	
6500.00	6531.31	12.91	213.73	6307.02	32.22	16.98	223.22	559.35	499.93	9.41	
6600.00	6627.15	18.40	233.94	6399.33	31.63	16.59	205.05	565.79	508.11	9.81	
6700.00	6718.12	24.69	244.03	6483.93	30.88	16.00	173.20	574.92	519.21	10.32	
6800.00	6805.29	31.10	249.93	6560.95	30.07	15.24	143.38	586.30	532.23	10.84	
6900.00	6889.33	37.46	253.83	6630.36	29.26	14.33	122.77	599.30	546.77	11.41	
7000.00	6970.79	43.71	256.65	6692.19	28.54	13.31	109.31	613.28	562.07	11.98	
7100.00	7050.12	49.86	258.84	6746.49	27.95	12.25	100.06	627.56	577.30	12.49	
7200.00	7127.72	55.90	260.63	6793.31	27.52	11.20	93.36	641.54	591.77	12.89	
7300.00	7203.92	61.86	262.15	6832.67	27.29	10.28	88.33	654.67	604.92	13.16	
7400.00	7278.98	67.74	263.49	6864.62	27.28	9.62	84.53	666.48	616.24	13.27	
7500.00	7353.16	73.56	264.71	6889.20	27.48	9.36	81.69	676.57	625.37	13.21	
7600.00	7426.67	79.34	265.84	6906.41	27.86	9.56	79.65	684.64	632.04	13.02	
7700.00	7499.71	85.08	266.93	6916.31	28.40	10.23	78.34	690.44	636.01	12.69	
7800.00	7576.26	90.00	267.85	6919.00	29.12	11.20	77.70	693.76	637.18	12.26	
7900.00	7676.25	90.00	267.85	6919.00	30.17	11.69	77.70	694.69	636.25	11.89	
8000.00	7776.25	90.00	267.85	6919.00	31.43	12.21	77.71	695.60	634.95	11.47	
8100.00	7876.24	90.00	267.85	6919.00	32.87	12.75	77.73	696.50	633.02	10.97	
8200.00	7976.24	90.00	267.85	6919.00	34.47	13.32	77.75	697.41	630.85	10.48	
8300.00	8076.23	90.00	267.85	6919.00	36.23	13.90	77.76	698.31	628.56	10.01	
8400.00	8176.23	90.00	267.85	6919.00	38.10	14.50	77.78	699.21	625.77	9.52	
8500.00	8276.23	90.00	267.85	6919.00	40.09	15.11	77.80	700.12	622.80	9.06	
8600.00	8376.22	90.00	267.85	6919.00	42.17	15.74	77.81	701.02	619.81	8.63	
8700.00	8476.22	90.00	267.85	6919.00	44.33	16.37	77.83	701.93	616.42	8.21	
8800.00	8576.21	90.00	267.85	6919.00	46.55	17.01	77.84	702.83	613.07	7.83	
8900.00	8676.21	90.00	267.85	6919.00	48.84	17.66	77.86	703.74	609.62	7.48	
9000.00	8776.20	90.00	267.85	6919.00	51.18	18.32	77.88	704.64	606.03	7.15	
9100.00	8876.20	90.00	267.85	6919.00	53.56	18.98	77.89	705.55	602.34	6.84	
9200.00	8976.20	90.00	267.85	6919.00	55.98	19.65	77.91	706.45	598.55	6.55	
9300.00	9076.19	90.00	267.85	6919.00	58.44	20.32	77.92	707.35	594.67	6.28	
9400.00	9176.19	90.00	267.85	6919.00	60.92	21.00	77.94	708.26	590.74	6.03	
9500.00	9276.18	90.00	267.85	6919.00	63.43	21.67	77.95	709.16	586.76	5.79	
9600.00	9376.18	90.00	267.85	6919.00	65.97	22.36	77.97	710.07	582.74	5.58	
9700.00	9476.17	90.00	267.85	6919.00	68.53	23.04	77.98	710.97	578.67	5.37	
9800.00	9576.17	90.00	267.85	6919.00	71.10	23.73	78.00	711.88	574.54	5.18	
9900.00	9676.17	90.00	267.85	6919.00	73.69	24.42	78.02	712.78	570.36	5.00	
10000.00	9776.16	90.00	267.85	6919.00	76.30	25.11	78.03	713.69	566.14	4.84	
10100.00	9876.16	90.00	267.85	6919.00	78.92	25.81	78.05	714.59	561.90	4.68	
10200.00	9976.15	90.00	267.85	6919.00	81.56	26.51	78.06	715.50	557.63	4.53	
10300.00	10076.15	90.00	267.85	6919.00	84.20	27.20	78.08	716.40	553.35	4.39	
10400.00	10176.15	90.00	267.85	6919.00	86.85	27.91	78.09	717.31	549.04	4.26	
10500.00	10276.14	90.00	267.85	6919.00	89.52	28.61	78.11	718.21	544.71	4.14	
10600.00	10376.14	90.00	267.85	6919.00	92.19	29.31	78.12	719.12	540.37	4.02	
10700.00	10476.13	90.00	267.85	6919.00	94.87	30.02	78.14	720.03	536.01	3.91	
10800.00	10576.13	90.00	267.85	6919.00	97.55	30.72	78.15	720.93	531.63	3.81	
10900.00	10676.12	90.00	267.85	6919.00	100.24	31.43	78.17	721.84	527.25	3.71	
11000.00	10776.12	90.00	267.85	6919.00	102.94	32.14	78.18	722.74	522.85	3.62	
11100.00	10876.12	90.00	267.85	6919.00	105.65	32.85	78.20	723.65	518.44	3.53	
11200.00	10976.11	90.00	267.85	6919.00	108.35	33.56	78.21	724.55	514.03	3.44	
11300.00	11076.11	90.00	267.85	6919.00	111.07	34.27	78.23	725.46	509.60	3.36	
11400.00	11176.10	90.00	267.85	6919.00	113.79	34.98	78.24	726.36	505.16	3.28	
11500.00	11276.10	90.00	267.85	6919.00	116.51	35.70	78.26	727.27	500.72	3.21	

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
11600.00	11376.09	90.00	267.85	6919.00	119.23	36.41	78.27	728.18	496.27	3.14	
11700.00	11476.09	90.00	267.85	6919.00	121.96	37.13	78.29	729.08	491.81	3.07	
11800.00	11576.09	90.00	267.85	6919.00	124.70	37.84	78.30	729.99	487.34	3.01	
11900.00	11676.08	90.00	267.85	6919.00	127.43	38.56	78.32	730.89	482.87	2.95	
12000.00	11776.08	90.00	267.85	6919.00	130.17	39.27	78.33	731.80	478.39	2.89	
12100.00	11876.07	90.00	267.85	6919.00	132.91	39.99	78.35	732.71	473.91	2.83	
12200.00	11976.07	90.00	267.85	6919.00	135.65	40.71	78.36	733.61	469.42	2.78	
12300.00	12076.06	90.00	267.85	6919.00	138.40	41.43	78.38	734.52	464.93	2.72	
12400.00	12176.06	90.00	267.85	6919.00	141.15	42.15	78.39	735.42	460.43	2.67	
12500.00	12276.06	90.00	267.85	6919.00	143.90	42.87	78.40	736.33	455.93	2.63	
12600.00	12376.05	90.00	267.85	6919.00	146.65	43.59	78.42	737.24	451.42	2.58	
12700.00	12476.05	90.00	267.85	6919.00	149.41	44.31	78.43	738.14	446.91	2.53	
12800.00	12576.04	90.00	267.85	6919.00	152.16	45.03	78.45	739.05	442.40	2.49	SF(Lo)
12900.00	12676.04	90.00	267.85	6919.00	154.92	45.75	78.46	739.96	437.88	2.45	SF(Lo)
13000.00	12776.03	90.00	267.85	6919.00	157.68	46.47	78.48	740.86	433.36	2.41	SF(Lo)
13100.00	12876.03	90.00	267.85	6919.00	160.44	47.19	78.49	741.77	428.83	2.37	SF(Lo)
13200.00	12976.03	90.00	267.85	6919.00	163.20	47.91	78.50	742.68	424.30	2.33	SF(Lo)
13300.00	13076.02	90.00	267.85	6919.00	165.97	48.64	78.52	743.58	419.77	2.30	SF(Lo)
13400.00	13176.02	90.00	267.85	6919.00	168.73	49.36	78.53	744.49	415.24	2.26	SF(Lo)
13500.00	13276.01	90.00	267.85	6919.00	171.50	50.08	78.55	745.40	410.70	2.23	SF(Lo)
13600.00	13376.01	90.00	267.85	6919.00	174.27	50.80	78.56	746.30	406.16	2.19	SF(Lo)
13700.00	13476.00	90.00	267.85	6919.00	177.04	51.53	78.58	747.21	401.62	2.16	SF(Lo)
13800.00	13576.00	90.00	267.85	6919.00	179.81	52.25	78.59	748.12	397.08	2.13	SF(Lo)
13900.00	13676.00	90.00	267.85	6919.00	182.58	52.98	78.60	749.02	392.53	2.10	SF(Lo)
14000.00	13775.99	90.00	267.85	6919.00	185.35	53.70	78.62	749.93	387.98	2.07	SF(Lo)
14100.00	13875.99	90.00	267.85	6919.00	188.12	54.43	78.63	750.84	383.43	2.04	SF(Lo)
14200.00	13975.98	90.00	267.85	6919.00	190.89	55.15	78.65	751.74	378.88	2.02	SF(Lo)
14300.00	14075.98	90.00	267.85	6919.00	193.67	55.88	78.66	752.65	374.32	1.99	SF(Lo)
14400.00	14175.97	90.00	267.85	6919.00	196.44	56.60	78.67	753.56	369.77	1.96	SF(Lo)
14500.00	14275.97	90.00	267.85	6919.00	199.22	57.33	78.69	754.47	365.21	1.94	SF(Lo)
14600.00	14375.97	90.00	267.85	6919.00	202.00	58.05	78.70	755.37	360.65	1.91	SF(Lo)
14700.00	14475.96	90.00	267.85	6919.00	204.77	58.78	78.71	756.28	356.09	1.89	SF(Lo)
14800.00	14575.96	90.00	267.85	6919.00	207.55	59.50	78.73	757.19	351.52	1.87	SF(Lo)
14900.00	14675.95	90.00	267.85	6919.00	210.33	60.23	78.74	758.09	346.96	1.84	SF(Lo)
15000.00	14775.95	90.00	267.85	6919.00	213.11	60.96	78.76	759.00	342.39	1.82	SF(Lo)
15100.00	14875.94	90.00	267.85	6919.00	215.89	61.68	78.77	759.91	337.82	1.80	SF(Lo)
15200.00	14975.94	90.00	267.85	6919.00	218.67	62.41	78.78	760.82	333.25	1.78	SF(Lo)
15300.00	15075.94	90.00	267.85	6919.00	221.45	63.14	78.80	761.72	328.68	1.76	SF(Lo)
15400.00	15175.93	90.00	267.85	6919.00	224.24	63.86	78.81	762.63	324.10	1.74	SF(Lo)
15500.00	15275.93	90.00	267.85	6919.00	227.02	64.59	78.82	763.54	319.53	1.72	SF(Lo)
15600.00	15375.92	90.00	267.85	6919.00	229.80	65.32	78.84	764.45	314.95	1.70	SF(Lo)
15700.00	15456.59	90.00	267.85	6919.00	232.05	65.91	78.85	765.60	311.82	1.69	SF(Lo)
15701.00	15456.59	90.00	267.85	6919.00	232.05	65.91	78.85	765.63	311.87	1.69	SF(Lo)
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	359.95	40.07	39.34	54.65	CC (Lo)
100.00	100.00	0.00	0.00	100.00	0.11	0.11	359.95	40.07	39.12	42.01	CC (Lo)
200.00	200.00	0.00	0.00	200.00	0.34	0.34	359.95	40.07	38.67	28.55	CC (Lo)
300.00	300.00	0.00	0.00	300.00	0.56	0.56	359.95	40.07	38.22	21.63	CC (Lo)
400.00	400.00	0.00	0.00	400.00	0.79	0.79	359.95	40.07	37.77	17.40	CC (Lo)
500.00	500.00	0.00	0.00	500.00	1.01	1.01	359.95	40.07	37.32	14.56	CC (Lo)
600.00	600.00	0.00	0.00	600.00	1.24	1.24	359.95	40.07	36.87	12.52	CC (Lo)
700.00	699.98	0.00	0.00	699.98	1.46	1.46	220.17	41.39	37.77	11.42	CC (Lo)
800.00	799.84	0.00	0.00	799.84	1.69	1.69	215.97	45.52	41.48	11.28	CC (Lo)
900.00	900.14	1.00	127.01	900.14	1.90	1.90	210.77	52.50	48.05	11.78	CC (Lo)
1000.00	1001.28	3.03	127.01	1001.21	2.09	2.08	207.10	60.51	55.65	12.45	CC (Lo)

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
1100.00	1102.72	5.05	127.01	1102.39	2.29	2.28	204.82	69.00	63.71	13.05	
1200.00	1204.44	7.09	127.01	1203.54	2.52	2.48	203.51	77.86	72.13	13.59	
1300.00	1306.45	9.13	127.01	1304.52	2.78	2.68	202.91	87.01	80.81	14.03	
1400.00	1408.73	11.17	127.01	1405.19	3.09	2.90	202.82	96.43	89.70	14.32	
1500.00	1511.27	13.23	127.01	1505.41	3.45	3.12	203.10	106.08	98.79	14.53	
1600.00	1614.08	15.28	127.01	1605.06	3.88	3.35	203.67	115.87	107.94	14.61	
1700.00	1717.29	17.35	127.01	1704.11	4.38	3.58	204.91	123.59	114.95	14.31	
1800.00	1817.11	17.39	127.01	1799.36	4.91	3.84	206.45	129.87	120.43	13.76	
1900.00	1916.85	17.39	127.01	1894.55	5.47	4.10	207.85	136.23	125.93	13.23	
2000.00	2016.60	17.39	127.01	1989.74	6.04	4.37	209.12	142.66	131.47	12.75	
2100.00	2116.34	17.39	127.01	2084.92	6.63	4.65	210.29	149.16	137.05	12.32	
2200.00	2216.09	17.39	127.01	2180.11	7.23	4.93	211.35	155.71	142.67	11.94	
2300.00	2315.83	17.39	127.01	2275.30	7.83	5.21	212.33	162.32	148.28	11.56	
2400.00	2415.58	17.39	127.01	2370.49	8.44	5.49	213.23	168.96	153.91	11.22	
2500.00	2515.32	17.39	127.01	2465.68	9.05	5.78	214.07	175.65	159.55	10.91	
2600.00	2615.07	17.39	127.01	2560.87	9.67	6.07	214.84	182.37	165.22	10.63	
2700.00	2714.81	17.39	127.01	2656.05	10.28	6.36	215.56	189.12	170.90	10.38	
2800.00	2814.56	17.39	127.01	2751.24	10.91	6.65	216.23	195.90	176.61	10.16	
2900.00	2914.30	17.39	127.01	2846.43	11.53	6.95	216.85	202.70	182.34	9.96	
3000.00	3014.05	17.39	127.01	2941.62	12.16	7.24	217.43	209.53	188.09	9.77	
3100.00	3113.79	17.39	127.01	3036.81	12.78	7.54	217.98	216.37	193.85	9.61	
3200.00	3213.53	17.39	127.01	3131.99	13.41	7.84	218.49	223.24	199.61	9.45	
3300.00	3313.28	17.39	127.01	3227.18	14.04	8.13	218.97	230.12	205.37	9.30	
3400.00	3413.02	17.39	127.01	3322.37	14.67	8.43	219.43	237.01	211.15	9.16	
3500.00	3512.77	17.39	127.01	3417.56	15.30	8.73	219.86	243.92	216.94	9.04	
3600.00	3612.51	17.39	127.01	3512.75	15.93	9.03	220.26	250.85	222.74	8.92	
3700.00	3712.26	17.39	127.01	3607.94	16.57	9.33	220.64	257.78	228.54	8.82	
3800.00	3812.00	17.39	127.01	3703.12	17.20	9.63	221.01	264.73	234.34	8.71	
3900.00	3911.75	17.39	127.01	3798.31	17.83	9.94	221.35	271.68	240.14	8.61	
4000.00	4011.49	17.39	127.01	3893.50	18.47	10.24	221.68	278.65	245.96	8.52	
4100.00	4111.24	17.39	127.01	3988.69	19.10	10.54	221.99	285.62	251.78	8.44	
4200.00	4210.98	17.39	127.01	4083.88	19.74	10.84	222.29	292.60	257.60	8.36	
4300.00	4310.73	17.39	127.01	4179.07	20.37	11.15	222.57	299.59	263.44	8.29	
4400.00	4410.47	17.39	127.01	4274.25	21.01	11.45	222.84	306.59	269.27	8.22	
4500.00	4510.22	17.39	127.01	4369.44	21.64	11.75	223.10	313.59	275.12	8.15	
4600.00	4609.96	17.39	127.01	4464.63	22.28	12.06	223.34	320.60	280.97	8.09	
4700.00	4709.71	17.39	127.01	4559.82	22.92	12.36	223.58	327.61	286.82	8.03	
4800.00	4809.45	17.39	127.01	4655.01	23.55	12.66	223.80	334.63	292.68	7.98	
4900.00	4909.20	17.39	127.01	4750.19	24.19	12.97	224.02	341.65	298.54	7.92	
5000.00	5008.94	17.39	127.01	4845.38	24.83	13.27	224.23	348.68	304.40	7.87	
5100.00	5108.69	17.39	127.01	4940.57	25.47	13.58	224.43	355.72	310.27	7.83	
5200.00	5208.43	17.39	127.01	5035.76	26.10	13.88	224.62	362.75	316.15	7.78	
5300.00	5308.18	17.39	127.01	5130.95	26.74	14.19	224.80	369.80	322.02	7.74	
5400.00	5407.92	17.39	127.01	5226.14	27.38	14.49	224.98	376.84	327.90	7.70	
5500.00	5507.67	17.39	127.01	5321.32	28.02	14.80	225.15	383.89	333.78	7.66	
5600.00	5607.41	17.39	127.01	5416.51	28.65	15.10	225.32	390.94	339.67	7.62	
5700.00	5707.16	17.39	127.01	5511.70	29.29	15.41	225.48	398.00	345.56	7.59	
5800.00	5806.90	17.39	127.01	5606.89	29.93	15.71	225.63	405.05	351.45	7.56	
5900.00	5906.65	17.39	127.01	5702.08	30.57	16.02	225.78	412.11	357.34	7.52	
6000.00	6006.39	17.39	127.01	5797.27	31.21	16.33	225.92	419.18	363.23	7.49	
6100.00	6106.14	17.39	127.01	5892.45	31.85	16.63	226.06	426.24	369.13	7.46	
6200.00	6205.88	17.39	127.01	5987.64	32.48	16.94	226.20	433.31	375.03	7.43	
6300.00	6305.63	17.39	127.01	6082.83	33.12	17.24	226.33	440.38	380.93	7.41	
6400.00	6412.55	13.53	144.40	6185.61	33.60	17.54	225.96	446.90	386.59	7.41	
6500.00	6520.09	11.64	183.78	6290.75	33.52	17.60	223.69	451.58	391.74	7.55	
6600.00	6621.59	14.99	216.57	6389.64	33.02	17.43	205.79	456.09	397.89	7.84	
6700.00	6718.93	20.79	233.74	6482.30	32.22	17.04	174.20	462.12	405.79	8.20	
6800.00	6812.83	27.31	242.99	6568.03	31.24	16.44	144.62	469.49	414.93	8.61	

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
6900.00	6903.74	34.00	248.65	6646.21	30.19	15.64	124.22	477.84	424.97	9.04	
7000.00	6992.08	40.66	252.53	6716.42	29.17	14.66	110.96	486.79	435.42	9.48	
7100.00	7078.22	47.26	255.40	6778.40	28.28	13.54	101.89	495.88	445.60	9.86	
7200.00	7162.52	53.77	257.68	6831.97	27.60	12.33	95.32	504.70	455.03	10.16	
7300.00	7245.26	60.20	259.57	6877.03	27.17	11.16	90.41	512.87	463.28	10.34	
7400.00	7326.71	66.55	261.20	6913.52	27.02	10.19	86.69	520.02	470.04	10.40	
7500.00	7407.13	72.84	262.67	6941.41	27.12	9.62	83.91	525.87	475.02	10.34	
7600.00	7486.72	79.07	264.02	6960.73	27.50	9.64	81.90	530.17	477.84	10.13	
7700.00	7565.71	85.25	265.31	6971.49	28.10	10.31	80.60	532.74	478.46	9.81	
7800.00	7649.21	90.00	266.28	6974.00	28.87	11.31	79.95	533.34	476.97	9.46	
7900.00	7749.19	90.00	266.28	6974.00	29.95	11.80	79.92	531.60	473.32	9.12	
8000.00	7849.17	90.00	266.28	6974.00	31.21	12.32	79.89	529.82	469.10	8.73	
8100.00	7949.16	90.00	266.28	6974.00	32.67	12.87	79.85	528.05	464.62	8.32	
8200.00	8049.14	90.00	266.28	6974.00	34.29	13.44	79.82	526.27	459.62	7.90	
8300.00	8149.13	90.00	266.28	6974.00	36.05	14.03	79.79	524.50	454.55	7.50	
8400.00	8249.11	90.00	266.28	6974.00	37.94	14.64	79.75	522.72	449.20	7.11	
8500.00	8349.09	90.00	266.28	6974.00	39.93	15.25	79.71	520.95	443.45	6.72	
8600.00	8449.08	90.00	266.28	6974.00	42.01	15.88	79.68	519.17	437.60	6.36	
8700.00	8549.06	90.00	266.28	6974.00	44.17	16.52	79.64	517.40	431.58	6.03	
8800.00	8649.04	90.00	266.28	6974.00	46.40	17.17	79.61	515.62	425.47	5.72	
8900.00	8749.03	90.00	266.28	6974.00	48.69	17.82	79.57	513.85	419.27	5.43	
9000.00	8849.01	90.00	266.28	6974.00	51.03	18.48	79.53	512.08	412.97	5.17	
9100.00	8949.00	90.00	266.28	6974.00	53.41	19.15	79.50	510.30	406.57	4.92	
9200.00	9048.98	90.00	266.28	6974.00	55.83	19.82	79.46	508.53	400.09	4.69	
9300.00	9148.96	90.00	266.28	6974.00	58.29	20.49	79.42	506.76	393.54	4.48	
9400.00	9248.95	90.00	266.28	6974.00	60.77	21.17	79.39	504.98	386.92	4.28	
9500.00	9348.93	90.00	266.28	6974.00	63.28	21.85	79.35	503.21	380.25	4.09	
9600.00	9448.91	90.00	266.28	6974.00	65.81	22.53	79.31	501.44	373.51	3.92	
9700.00	9548.90	90.00	266.28	6974.00	68.37	23.22	79.27	499.67	366.72	3.76	
9800.00	9648.88	90.00	266.28	6974.00	70.94	23.91	79.23	497.89	359.90	3.61	
9900.00	9748.87	90.00	266.28	6974.00	73.53	24.60	79.19	496.12	353.05	3.47	
10000.00	9848.85	90.00	266.28	6974.00	76.13	25.30	79.15	494.35	346.17	3.34	
10100.00	9948.83	90.00	266.28	6974.00	78.75	25.99	79.12	492.58	339.26	3.21	
10200.00	10048.82	90.00	266.28	6974.00	81.38	26.69	79.08	490.81	332.33	3.10	
10300.00	10148.80	90.00	266.28	6974.00	84.01	27.39	79.04	489.04	325.39	2.99	
10400.00	10248.78	90.00	266.28	6974.00	86.66	28.09	79.00	487.27	318.42	2.89	
10500.00	10348.77	90.00	266.28	6974.00	89.32	28.79	78.95	485.50	311.45	2.79	
10600.00	10448.75	90.00	266.28	6974.00	91.99	29.50	78.91	483.73	304.45	2.70	
10700.00	10548.74	90.00	266.28	6974.00	94.66	30.20	78.87	481.96	297.45	2.61	
10800.00	10648.72	90.00	266.28	6974.00	97.34	30.91	78.83	480.19	290.43	2.53	
10900.00	10748.70	90.00	266.28	6974.00	100.03	31.62	78.79	478.42	283.41	2.45	SF(Lo)
11000.00	10848.69	90.00	266.28	6974.00	102.72	32.33	78.75	476.65	276.37	2.38	SF(Lo)
11100.00	10948.67	90.00	266.28	6974.00	105.42	33.04	78.70	474.88	269.33	2.31	SF(Lo)
11200.00	11048.65	90.00	266.28	6974.00	108.12	33.75	78.66	473.11	262.28	2.24	SF(Lo)
11300.00	11148.64	90.00	266.28	6974.00	110.83	34.46	78.62	471.34	255.22	2.18	SF(Lo)
11400.00	11248.62	90.00	266.28	6974.00	113.54	35.17	78.58	469.57	248.16	2.12	SF(Lo)
11500.00	11348.61	90.00	266.28	6974.00	116.26	35.89	78.53	467.81	241.09	2.06	SF(Lo)
11600.00	11448.59	90.00	266.28	6974.00	118.98	36.60	78.49	466.04	234.02	2.01	SF(Lo)
11700.00	11548.57	90.00	266.28	6974.00	121.70	37.32	78.44	464.27	226.95	1.96	SF(Lo)
11800.00	11648.56	90.00	266.28	6974.00	124.42	38.03	78.40	462.50	219.87	1.91	SF(Lo)
11900.00	11748.54	90.00	266.28	6974.00	127.15	38.75	78.35	460.74	212.78	1.86	SF(Lo)
12000.00	11848.52	90.00	266.28	6974.00	129.89	39.46	78.31	458.97	205.70	1.81	SF(Lo)
12100.00	11948.51	90.00	266.28	6974.00	132.62	40.18	78.26	457.21	198.61	1.77	SF(Lo)
12200.00	12048.49	90.00	266.28	6974.00	135.36	40.90	78.22	455.44	191.52	1.73	SF(Lo)
12300.00	12148.48	90.00	266.28	6974.00	138.10	41.62	78.17	453.67	184.43	1.68	SF(Lo)
12400.00	12248.46	90.00	266.28	6974.00	140.84	42.34	78.12	451.91	177.34	1.65	SF(Lo)
12500.00	12348.44	90.00	266.28	6974.00	143.58	43.06	78.07	450.14	170.24	1.61	SF(Lo)
12600.00	12448.43	90.00	266.28	6974.00	146.33	43.78	78.03	448.38	163.15	1.57	SF(Lo)

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
12700.00	12548.41	90.00	266.28	6974.00	149.08	44.50	77.98	446.61	156.05	1.54	SF(Lo)
12800.00	12648.39	90.00	266.28	6974.00	151.82	45.22	77.93	444.85	148.96	1.50	SF(Lo)
12900.00	12748.38	90.00	266.28	6974.00	154.58	45.94	77.88	443.09	141.86	1.47	SF(Med)
13000.00	12848.36	90.00	266.28	6974.00	157.33	46.66	77.83	441.32	134.76	1.44	SF(Med)
13100.00	12948.34	90.00	266.28	6974.00	160.08	47.38	77.78	439.56	127.67	1.41	SF(Med)
13200.00	13048.33	90.00	266.28	6974.00	162.84	48.10	77.73	437.80	120.57	1.38	SF(Med)
13300.00	13148.31	90.00	266.28	6974.00	165.59	48.83	77.68	436.04	113.48	1.35	SF(Med)
13400.00	13248.30	90.00	266.28	6974.00	168.35	49.55	77.63	434.27	106.38	1.32	SF(Med)
13500.00	13348.28	90.00	266.28	6974.00	171.11	50.27	77.58	432.51	99.29	1.30	SF(Med)
13600.00	13448.26	90.00	266.28	6974.00	173.87	51.00	77.53	430.75	92.20	1.27	SF(Med)
13700.00	13548.25	90.00	266.28	6974.00	176.63	51.72	77.48	428.99	85.11	1.25	SF(Med)
13800.00	13648.23	90.00	266.28	6974.00	179.40	52.44	77.43	427.23	78.02	1.22	SF(Med)
13900.00	13748.21	90.00	266.28	6974.00	182.16	53.17	77.37	425.47	70.93	1.20	SF(Med)
14000.00	13848.20	90.00	266.28	6974.00	184.92	53.89	77.32	423.71	63.85	1.18	SF(Med)
14100.00	13948.18	90.00	266.28	6974.00	187.69	54.62	77.27	421.95	56.76	1.16	SF(Med)
14200.00	14048.17	90.00	266.28	6974.00	190.46	55.34	77.21	420.19	49.68	1.13	SF(Med)
14300.00	14148.15	90.00	266.28	6974.00	193.22	56.07	77.16	418.43	42.60	1.11	SF(Med)
14400.00	14248.13	90.00	266.28	6974.00	195.99	56.79	77.10	416.67	35.52	1.09	SF(Med)
14500.00	14348.12	90.00	266.28	6974.00	198.76	57.52	77.05	414.92	28.45	1.07	SF(Med)
14600.00	14448.10	90.00	266.28	6974.00	201.53	58.24	76.99	413.16	21.38	1.05	SF(Med)
14700.00	14548.08	90.00	266.28	6974.00	204.30	58.97	76.93	411.40	14.31	1.04	SF(Med)
14800.00	14648.07	90.00	266.28	6974.00	207.07	59.69	76.88	409.64	7.24	1.02	SF(Med)
14900.00	14748.05	90.00	266.28	6974.00	209.84	60.42	76.82	407.89	0.17	1.00	SF(Med)
15000.00	14848.04	90.00	266.28	6974.00	212.61	61.15	76.76	406.13	-6.89	0.98	SF(Hi)
15100.00	14948.02	90.00	266.28	6974.00	215.39	61.87	76.70	404.38	-13.94	0.97	SF(Hi)
15200.00	15048.00	90.00	266.28	6974.00	218.16	62.60	76.64	402.62	-21.00	0.95	SF(Hi)
15300.00	15147.99	90.00	266.28	6974.00	220.93	63.33	76.58	400.87	-28.05	0.93	SF(Hi)
15400.00	15247.97	90.00	266.28	6974.00	223.71	64.05	76.52	399.11	-35.10	0.92	SF(Hi)
15500.00	15286.68	90.00	266.28	6974.00	224.78	64.33	76.50	402.06	-28.29	0.93	SF(Hi)
15600.00	15286.68	90.00	266.28	6974.00	224.78	64.33	76.50	427.21	24.95	1.06	SF(Med)
15700.00	15286.68	90.00	266.28	6974.00	224.78	64.33	76.50	472.62	110.62	1.31	SF(Med)
15701.00	15286.68	90.00	266.28	6974.00	224.78	64.33	76.50	473.15	111.57	1.31	SF(Med)
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	359.55	20.04	19.30	27.32	CC (Med)
100.00	100.00	0.00	0.00	100.00	0.11	0.11	359.55	20.04	19.08	21.00	CC (Med)
200.00	200.00	0.00	0.00	200.00	0.34	0.34	359.55	20.04	18.63	14.28	CC (Med)
300.00	300.00	0.00	0.00	300.00	0.56	0.56	359.55	20.04	18.18	10.81	CC (Med)
400.00	400.00	0.00	0.00	400.00	0.79	0.79	359.55	20.04	17.73	8.70	CC (Med)
500.00	500.00	0.00	0.00	500.00	1.01	1.01	359.55	20.04	17.28	7.28	CC (Med)
600.00	600.00	0.00	0.00	600.00	1.24	1.24	359.55	20.04	16.83	6.26	CC (Med)
700.00	699.98	0.00	0.00	699.98	1.46	1.46	218.29	21.38	17.75	5.90	CC (Med)
800.00	800.19	1.00	131.86	800.19	1.67	1.67	211.66	25.35	21.32	6.29	CC (Med)
900.00	900.85	3.02	131.86	900.78	1.86	1.86	207.06	30.10	25.70	6.83	CC (Med)
1000.00	1001.68	5.03	131.86	1001.36	2.07	2.05	204.32	35.16	30.33	7.29	CC (Lo)
1100.00	1102.69	7.05	131.86	1101.80	2.29	2.25	202.79	40.41	35.16	7.69	CC (Lo)
1200.00	1203.88	9.08	131.86	1201.99	2.56	2.46	202.08	45.81	40.10	8.03	CC (Lo)
1300.00	1305.24	11.10	131.86	1301.77	2.87	2.67	201.94	51.33	45.13	8.28	CC (Lo)
1400.00	1406.78	13.14	131.86	1401.04	3.23	2.89	202.21	56.97	50.25	8.47	CC (Lo)
1500.00	1508.47	15.17	131.86	1499.64	3.66	3.12	202.78	62.73	55.42	8.58	CC (Lo)
1600.00	1610.34	17.21	131.86	1597.47	4.16	3.36	203.59	68.48	60.51	8.59	
1700.00	1712.12	18.97	131.86	1694.14	4.73	3.62	205.37	72.08	63.37	8.27	
1800.00	1812.05	18.97	131.86	1788.65	5.34	3.89	207.51	74.62	65.03	7.78	
1900.00	1911.98	18.97	131.86	1883.15	5.96	4.17	209.50	77.27	66.75	7.35	
2000.00	2011.91	18.97	131.86	1977.65	6.60	4.46	211.36	80.00	68.51	6.97	
2100.00	2111.84	18.97	131.86	2072.15	7.25	4.75	213.10	82.80	70.28	6.61	

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
2200.00	2211.77	18.97	131.86	2166.66	7.91	5.04	214.72	85.68	72.08	6.30	
2300.00	2311.70	18.97	131.86	2261.16	8.57	5.34	216.23	88.63	73.90	6.02	
2400.00	2411.63	18.97	131.86	2355.66	9.24	5.64	217.65	91.63	75.74	5.77	
2500.00	2511.56	18.97	131.86	2450.17	9.91	5.94	218.97	94.68	77.61	5.55	
2600.00	2611.49	18.97	131.86	2544.67	10.59	6.24	220.21	97.78	79.50	5.35	
2700.00	2711.42	18.97	131.86	2639.17	11.26	6.55	221.38	100.92	81.41	5.17	
2800.00	2811.35	18.97	131.86	2733.67	11.94	6.86	222.47	104.11	83.34	5.01	
2900.00	2911.28	18.97	131.86	2828.18	12.62	7.17	223.50	107.33	85.31	4.87	
3000.00	3011.21	18.97	131.86	2922.68	13.30	7.48	224.47	110.58	87.30	4.75	
3100.00	3111.14	18.97	131.86	3017.18	13.99	7.79	225.38	113.86	89.29	4.64	
3200.00	3211.07	18.97	131.86	3111.68	14.67	8.10	226.24	117.17	91.30	4.53	
3300.00	3311.00	18.97	131.86	3206.19	15.35	8.41	227.06	120.50	93.33	4.44	
3400.00	3410.93	18.97	131.86	3300.69	16.04	8.72	227.83	123.85	95.38	4.35	
3500.00	3510.86	18.97	131.86	3395.19	16.73	9.04	228.56	127.23	97.45	4.27	
3600.00	3610.79	18.97	131.86	3489.69	17.41	9.35	229.25	130.63	99.52	4.20	
3700.00	3710.72	18.97	131.86	3584.20	18.10	9.67	229.90	134.04	101.59	4.13	
3800.00	3810.65	18.97	131.86	3678.70	18.79	9.98	230.53	137.48	103.68	4.07	
3900.00	3910.58	18.97	131.86	3773.20	19.48	10.30	231.12	140.92	105.78	4.01	
4000.00	4010.51	18.97	131.86	3867.70	20.17	10.62	231.69	144.38	107.89	3.96	
4100.00	4110.44	18.97	131.86	3962.21	20.86	10.93	232.23	147.86	110.02	3.91	
4200.00	4210.37	18.97	131.86	4056.71	21.55	11.25	232.74	151.35	112.16	3.86	
4300.00	4310.30	18.97	131.86	4151.21	22.24	11.57	233.23	154.85	114.31	3.82	
4400.00	4410.23	18.97	131.86	4245.72	22.93	11.88	233.70	158.35	116.47	3.78	
4500.00	4510.16	18.97	131.86	4340.22	23.62	12.20	234.15	161.87	118.64	3.74	
4600.00	4610.09	18.97	131.86	4434.72	24.31	12.52	234.58	165.40	120.82	3.71	
4700.00	4710.02	18.97	131.86	4529.22	25.00	12.84	234.99	168.94	123.01	3.68	
4800.00	4809.95	18.97	131.86	4623.73	25.69	13.15	235.38	172.49	125.20	3.65	
4900.00	4909.88	18.97	131.86	4718.23	26.38	13.47	235.76	176.04	127.41	3.62	
5000.00	5009.81	18.97	131.86	4812.73	27.07	13.79	236.12	179.61	129.62	3.59	
5100.00	5109.74	18.97	131.86	4907.23	27.76	14.11	236.47	183.17	131.84	3.57	
5200.00	5209.67	18.97	131.86	5001.74	28.45	14.43	236.81	186.75	134.06	3.54	
5300.00	5309.60	18.97	131.86	5096.24	29.15	14.75	237.13	190.33	136.28	3.52	
5400.00	5409.54	18.97	131.86	5190.74	29.84	15.07	237.44	193.92	138.50	3.50	
5500.00	5509.47	18.97	131.86	5285.24	30.53	15.39	237.74	197.51	140.73	3.48	
5600.00	5609.40	18.97	131.86	5379.75	31.22	15.71	238.03	201.11	142.96	3.46	
5700.00	5709.33	18.97	131.86	5474.25	31.91	16.03	238.31	204.71	145.20	3.44	
5800.00	5809.26	18.97	131.86	5568.75	32.61	16.35	238.58	208.32	147.44	3.42	
5900.00	5909.19	18.97	131.86	5663.25	33.30	16.66	238.84	211.93	149.68	3.40	
6000.00	6009.12	18.97	131.86	5757.76	33.99	16.98	239.10	215.55	151.93	3.39	
6100.00	6109.05	18.97	131.86	5852.26	34.68	17.30	239.34	219.17	154.19	3.37	
6200.00	6209.98	18.51	133.42	5947.72	35.37	17.63	239.56	222.78	156.44	3.36	
6300.00	6322.56	14.15	161.95	6055.90	35.65	17.88	237.41	223.09	156.71	3.36	
6400.00	6430.17	14.58	197.13	6160.35	35.28	17.89	231.30	219.30	155.25	3.42	
6500.00	6528.77	18.75	220.81	6254.89	34.50	17.69	222.01	216.05	156.91	3.65	
6600.00	6617.75	24.12	233.72	6337.73	33.49	17.32	197.06	219.59	166.97	4.17	
6700.00	6701.98	29.86	241.57	6412.78	32.36	16.79	159.18	231.60	184.88	4.96	
6800.00	6782.66	35.65	246.83	6480.62	31.18	16.10	124.42	249.74	207.38	5.90	
6900.00	6860.48	41.41	250.65	6541.48	30.06	15.26	100.08	271.48	232.25	6.92	
7000.00	6936.00	47.09	253.60	6595.56	29.07	14.28	84.00	294.71	257.95	8.02	
7100.00	7009.64	52.69	255.99	6642.98	28.27	13.17	73.00	317.81	282.79	9.08	
7200.00	7081.76	58.22	258.01	6683.87	27.70	12.04	65.19	339.62	305.79	10.04	
7300.00	7152.68	63.68	259.77	6718.30	27.38	10.97	59.51	359.32	326.16	10.84	
7400.00	7222.63	69.08	261.35	6746.32	27.30	10.11	55.37	376.29	342.93	11.28	
7500.00	7291.83	74.44	262.80	6767.97	27.44	9.63	52.38	390.10	355.74	11.35	
7600.00	7360.49	79.77	264.17	6783.28	27.81	9.69	50.31	400.44	364.15	11.03	
7700.00	7428.76	85.08	265.49	6792.28	28.34	10.32	49.03	407.10	368.20	10.47	
7800.00	7499.02	90.00	266.70	6795.00	29.01	11.38	48.44	409.92	368.09	9.80	
7900.00	7599.01	90.00	266.70	6795.00	30.04	11.89	48.33	409.16	365.89	9.46	

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
8000.00	7699.01	90.00	266.70	6795.00	31.28	12.43	48.23	408.35	363.30	9.06	
8100.00	7799.00	90.00	266.70	6795.00	32.71	12.99	48.13	407.55	360.34	8.63	
8200.00	7898.99	90.00	266.70	6795.00	34.31	13.58	48.03	406.74	357.28	8.22	
8300.00	7998.99	90.00	266.70	6795.00	36.05	14.19	47.93	405.93	353.76	7.78	
8400.00	8098.98	90.00	266.70	6795.00	37.91	14.82	47.82	405.13	350.17	7.37	
8500.00	8198.98	90.00	266.70	6795.00	39.89	15.46	47.72	404.32	346.38	6.98	
8600.00	8298.97	90.00	266.70	6795.00	41.95	16.11	47.62	403.52	342.51	6.61	
8700.00	8398.97	90.00	266.70	6795.00	44.10	16.76	47.51	402.72	338.48	6.27	
8800.00	8498.96	90.00	266.70	6795.00	46.32	17.42	47.41	401.92	334.33	5.95	
8900.00	8598.95	90.00	266.70	6795.00	48.59	18.09	47.30	401.12	330.07	5.65	
9000.00	8698.95	90.00	266.70	6795.00	50.92	18.76	47.20	400.32	325.77	5.37	
9100.00	8798.94	90.00	266.70	6795.00	53.30	19.44	47.09	399.53	321.43	5.12	
9200.00	8898.94	90.00	266.70	6795.00	55.71	20.12	46.99	398.73	317.06	4.88	
9300.00	8998.93	90.00	266.70	6795.00	58.16	20.81	46.88	397.94	312.65	4.67	
9400.00	9098.92	90.00	266.70	6795.00	60.64	21.49	46.77	397.15	308.23	4.47	
9500.00	9198.92	90.00	266.70	6795.00	63.14	22.18	46.66	396.36	303.78	4.28	
9600.00	9298.91	90.00	266.70	6795.00	65.67	22.87	46.56	395.57	299.32	4.11	
9700.00	9398.91	90.00	266.70	6795.00	68.22	23.57	46.45	394.78	294.86	3.95	
9800.00	9498.90	90.00	266.70	6795.00	70.79	24.26	46.34	394.00	290.40	3.80	
9900.00	9598.89	90.00	266.70	6795.00	73.37	24.96	46.23	393.21	285.94	3.67	
10000.00	9698.89	90.00	266.70	6795.00	75.97	25.66	46.12	392.43	281.50	3.54	
10100.00	9798.88	90.00	266.70	6795.00	78.59	26.36	46.01	391.65	277.06	3.42	
10200.00	9898.88	90.00	266.70	6795.00	81.21	27.07	45.90	390.87	272.54	3.30	
10300.00	9998.87	90.00	266.70	6795.00	83.85	27.77	45.79	390.09	268.05	3.20	
10400.00	10098.87	90.00	266.70	6795.00	86.50	28.48	45.68	389.31	263.55	3.10	
10500.00	10198.86	90.00	266.70	6795.00	89.16	29.18	45.57	388.54	259.01	3.00	
10600.00	10298.85	90.00	266.70	6795.00	91.82	29.89	45.45	387.76	254.51	2.91	
10700.00	10398.85	90.00	266.70	6795.00	94.49	30.60	45.34	386.99	250.08	2.83	
10800.00	10498.84	90.00	266.70	6795.00	97.17	31.31	45.23	386.22	245.58	2.75	
10900.00	10598.84	90.00	266.70	6795.00	99.86	32.02	45.11	385.45	241.10	2.67	
11000.00	10698.83	90.00	266.70	6795.00	102.55	32.74	45.00	384.68	236.60	2.60	
11100.00	10798.82	90.00	266.70	6795.00	105.25	33.45	44.89	383.91	232.07	2.53	
11200.00	10898.82	90.00	266.70	6795.00	107.96	34.16	44.77	383.15	227.57	2.46	SF(Lo)
11300.00	10998.81	90.00	266.70	6795.00	110.66	34.88	44.66	382.38	223.13	2.40	SF(Lo)
11400.00	11098.81	90.00	266.70	6795.00	113.38	35.59	44.54	381.62	218.72	2.34	SF(Lo)
11500.00	11198.80	90.00	266.70	6795.00	116.09	36.31	44.42	380.86	214.29	2.29	SF(Lo)
11600.00	11298.79	90.00	266.70	6795.00	118.81	37.02	44.31	380.10	209.86	2.23	SF(Lo)
11700.00	11398.79	90.00	266.70	6795.00	121.54	37.74	44.19	379.35	205.46	2.18	SF(Lo)
11800.00	11498.78	90.00	266.70	6795.00	124.26	38.46	44.07	378.59	201.09	2.13	SF(Lo)
11900.00	11598.78	90.00	266.70	6795.00	126.99	39.18	43.95	377.84	196.75	2.09	SF(Lo)
12000.00	11698.77	90.00	266.70	6795.00	129.73	39.89	43.83	377.08	192.42	2.04	SF(Lo)
12100.00	11798.76	90.00	266.70	6795.00	132.46	40.61	43.72	376.33	188.07	2.00	SF(Lo)
12200.00	11898.76	90.00	266.70	6795.00	135.20	41.33	43.60	375.58	183.67	1.96	SF(Lo)
12300.00	11998.75	90.00	266.70	6795.00	137.94	42.05	43.48	374.84	179.30	1.92	SF(Lo)
12400.00	12098.75	90.00	266.70	6795.00	140.68	42.77	43.35	374.09	174.95	1.88	SF(Lo)
12500.00	12198.74	90.00	266.70	6795.00	143.43	43.49	43.23	373.35	170.63	1.84	SF(Lo)
12600.00	12298.74	90.00	266.70	6795.00	146.18	44.22	43.11	372.60	166.33	1.81	SF(Lo)
12700.00	12398.73	90.00	266.70	6795.00	148.92	44.94	42.99	371.86	162.04	1.77	SF(Lo)
12800.00	12498.72	90.00	266.70	6795.00	151.67	45.66	42.87	371.12	157.78	1.74	SF(Lo)
12900.00	12598.72	90.00	266.70	6795.00	154.43	46.38	42.74	370.38	153.54	1.71	SF(Lo)
13000.00	12698.71	90.00	266.70	6795.00	157.18	47.10	42.62	369.65	149.32	1.68	SF(Lo)
13100.00	12798.71	90.00	266.70	6795.00	159.94	47.83	42.50	368.92	145.12	1.65	SF(Lo)
13200.00	12898.70	90.00	266.70	6795.00	162.69	48.55	42.37	368.18	140.94	1.62	SF(Lo)
13300.00	12998.69	90.00	266.70	6795.00	165.45	49.27	42.25	367.45	136.78	1.59	SF(Lo)
13400.00	13098.69	90.00	266.70	6795.00	168.21	50.00	42.12	366.72	132.64	1.57	SF(Lo)
13500.00	13198.68	90.00	266.70	6795.00	170.97	50.72	42.00	366.00	128.51	1.54	SF(Lo)
13600.00	13298.68	90.00	266.70	6795.00	173.73	51.45	41.87	365.27	124.41	1.52	SF(Lo)
13700.00	13398.67	90.00	266.70	6795.00	176.50	52.17	41.74	364.55	120.33	1.49	SF(Med)

5D Anti-Collision Report

Secondary Well: Goetzel 13N-30A-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
13800.00	13498.66	90.00	266.70	6795.00	179.26	52.90	41.61	363.83	116.27	1.47	SF(Med)
13900.00	13598.66	90.00	266.70	6795.00	182.03	53.62	41.49	363.11	112.23	1.45	SF(Med)
14000.00	13698.65	90.00	266.70	6795.00	184.79	54.35	41.36	362.39	108.21	1.43	SF(Med)
14100.00	13798.65	90.00	266.70	6795.00	187.56	55.07	41.23	361.67	104.21	1.40	SF(Med)
14200.00	13898.64	90.00	266.70	6795.00	190.33	55.80	41.10	360.96	100.23	1.38	SF(Med)
14300.00	13998.64	90.00	266.70	6795.00	193.10	56.52	40.97	360.24	96.27	1.36	SF(Med)
14400.00	14098.63	90.00	266.70	6795.00	195.87	57.25	40.84	359.53	92.34	1.35	SF(Med)
14500.00	14198.62	90.00	266.70	6795.00	198.64	57.98	40.71	358.82	88.42	1.33	SF(Med)
14600.00	14298.62	90.00	266.70	6795.00	201.41	58.70	40.58	358.12	84.53	1.31	SF(Med)
14700.00	14398.61	90.00	266.70	6795.00	204.18	59.43	40.44	357.41	80.66	1.29	SF(Med)
14800.00	14498.61	90.00	266.70	6795.00	206.95	60.15	40.31	356.71	76.81	1.27	SF(Med)
14900.00	14598.60	90.00	266.70	6795.00	209.73	60.88	40.18	356.01	72.98	1.26	SF(Med)
15000.00	14698.59	90.00	266.70	6795.00	212.50	61.61	40.04	355.31	69.18	1.24	SF(Med)
15100.00	14798.59	90.00	266.70	6795.00	215.28	62.34	39.91	354.61	65.40	1.23	SF(Med)
15200.00	14898.58	90.00	266.70	6795.00	218.05	63.06	39.78	353.92	61.64	1.21	SF(Med)
15300.00	14998.58	90.00	266.70	6795.00	220.83	63.79	39.64	353.22	57.90	1.20	SF(Med)
15400.00	15098.57	90.00	266.70	6795.00	223.60	64.52	39.50	352.53	54.19	1.18	SF(Med)
15500.00	15136.85	90.00	266.70	6795.00	224.67	64.80	39.45	357.21	63.53	1.22	SF(Med)
15600.00	15136.85	90.00	266.70	6795.00	224.67	64.80	39.45	386.60	117.70	1.44	SF(Med)
15700.00	15136.85	90.00	266.70	6795.00	224.67	64.80	39.45	437.40	199.66	1.84	SF(Lo)
15701.00	15136.85	90.00	266.70	6795.00	224.67	64.80	39.45	437.99	200.57	1.84	SF(Lo)
Secondary Well: Goetzel 34N-30C-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
0.00	0.00	0.00	0.00	0.00	0.00	0.00	180.35	20.04	19.31	27.33	CC (Med)
100.00	100.00	0.00	0.00	100.00	0.11	0.11	180.35	20.04	19.08	21.01	CC (Med)
200.00	200.00	0.00	0.00	200.00	0.34	0.34	180.35	20.04	18.64	14.28	CC (Med)
300.00	300.00	0.00	0.00	300.00	0.56	0.56	180.35	20.04	18.19	10.81	CC (Med)
400.00	400.00	0.00	0.00	400.00	0.79	0.79	180.35	20.04	17.74	8.70	CC (Med)
500.00	499.73	0.99	141.02	499.72	1.00	1.00	179.58	20.38	17.64	7.44	CC (Med)
600.00	599.06	2.98	141.02	598.99	1.19	1.18	174.26	23.19	20.05	7.37	CC (Med)
700.00	698.16	4.96	141.02	697.85	1.39	1.38	30.33	27.72	24.17	7.82	CC (Med)
800.00	797.09	6.94	141.02	796.24	1.63	1.59	26.53	32.48	28.54	8.24	CC (Med)
900.00	895.84	8.92	141.02	894.05	1.91	1.80	23.96	37.38	33.02	8.57	CC (Lo)
1000.00	994.43	10.89	141.02	991.15	2.24	2.02	22.23	42.36	37.56	8.83	CC (Lo)
1100.00	1092.84	12.86	141.02	1087.46	2.62	2.25	21.07	47.37	42.12	9.02	CC (Lo)
1200.00	1191.08	14.82	141.02	1182.84	3.06	2.49	20.32	52.40	46.66	9.13	CC (Lo)
1300.00	1289.16	16.78	141.02	1277.21	3.56	2.73	19.87	57.42	51.17	9.19	CC (Lo)
1400.00	1387.07	18.74	141.02	1370.45	4.13	2.99	19.65	62.43	55.63	9.18	CC (Lo)
1500.00	1485.11	20.44	141.02	1462.75	4.76	3.26	19.62	67.40	60.02	9.13	
1600.00	1585.06	20.44	141.02	1556.40	5.44	3.56	20.22	70.43	62.38	8.74	
1700.00	1685.03	20.44	141.02	1650.07	6.14	3.86	21.05	72.60	63.81	8.27	
1800.00	1785.00	20.44	141.02	1743.75	6.84	4.17	21.83	74.77	65.22	7.83	
1900.00	1884.98	20.44	141.02	1837.42	7.55	4.48	22.56	76.96	66.64	7.46	
2000.00	1984.95	20.44	141.02	1931.10	8.27	4.80	23.26	79.16	68.06	7.13	
2100.00	2084.92	20.44	141.02	2024.77	8.99	5.11	23.92	81.38	69.46	6.83	
2200.00	2184.89	20.44	141.02	2118.45	9.71	5.43	24.54	83.60	70.85	6.56	
2300.00	2284.86	20.44	141.02	2212.12	10.44	5.75	25.13	85.83	72.20	6.30	
2400.00	2384.83	20.44	141.02	2305.80	11.16	6.08	25.69	88.07	73.55	6.07	
2500.00	2484.80	20.44	141.02	2399.47	11.89	6.40	26.22	90.32	74.89	5.86	
2600.00	2584.77	20.44	141.02	2493.14	12.62	6.73	26.73	92.57	76.24	5.67	
2700.00	2684.75	20.44	141.02	2586.82	13.35	7.05	27.21	94.84	77.58	5.50	
2800.00	2784.72	20.44	141.02	2680.49	14.08	7.38	27.67	97.11	78.93	5.34	
2900.00	2884.69	20.44	141.02	2774.17	14.81	7.71	28.11	99.38	80.27	5.20	
3000.00	2984.66	20.44	141.02	2867.84	15.55	8.03	28.53	101.66	81.62	5.07	
3100.00	3084.63	20.44	141.02	2961.52	16.28	8.36	28.93	103.95	82.96	4.95	
3200.00	3184.60	20.44	141.02	3055.19	17.01	8.69	29.31	106.24	84.28	4.84	

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
3300.00	3284.57	20.44	141.02	3148.87	17.75	9.02	29.68	108.53	85.61	4.73	
3400.00	3384.55	20.44	141.02	3242.54	18.48	9.35	30.03	110.83	86.93	4.64	
3500.00	3484.52	20.44	141.02	3336.21	19.21	9.68	30.37	113.14	88.25	4.55	
3600.00	3584.49	20.44	141.02	3429.89	19.95	10.01	30.70	115.44	89.55	4.46	
3700.00	3684.46	20.44	141.02	3523.56	20.68	10.34	31.01	117.75	90.85	4.38	
3800.00	3784.43	20.44	141.02	3617.24	21.42	10.67	31.31	120.07	92.16	4.30	
3900.00	3884.40	20.44	141.02	3710.91	22.16	11.00	31.59	122.39	93.46	4.23	
4000.00	3984.37	20.44	141.02	3804.59	22.89	11.33	31.87	124.71	94.77	4.16	
4100.00	4084.34	20.44	141.02	3898.26	23.63	11.67	32.14	127.03	96.07	4.10	
4200.00	4184.32	20.44	141.02	3991.94	24.36	12.00	32.40	129.36	97.37	4.04	
4300.00	4284.29	20.44	141.02	4085.61	25.10	12.33	32.65	131.68	98.68	3.99	
4400.00	4384.26	20.44	141.02	4179.28	25.83	12.66	32.89	134.02	99.98	3.94	
4500.00	4484.23	20.44	141.02	4272.96	26.57	12.99	33.12	136.35	101.28	3.89	
4600.00	4584.20	20.44	141.02	4366.63	27.31	13.33	33.34	138.68	102.59	3.84	
4700.00	4684.17	20.44	141.02	4460.31	28.04	13.66	33.56	141.02	103.89	3.80	
4800.00	4784.14	20.44	141.02	4553.98	28.78	13.99	33.77	143.36	105.19	3.76	
4900.00	4884.11	20.44	141.02	4647.66	29.52	14.32	33.97	145.70	106.50	3.72	
5000.00	4984.09	20.44	141.02	4741.33	30.25	14.66	34.17	148.04	107.80	3.68	
5100.00	5084.06	20.44	141.02	4835.01	30.99	14.99	34.36	150.39	109.11	3.64	
5200.00	5184.03	20.44	141.02	4928.68	31.73	15.32	34.54	152.73	110.41	3.61	
5300.00	5284.00	20.44	141.02	5022.35	32.46	15.66	34.72	155.08	111.72	3.58	
5400.00	5383.97	20.44	141.02	5116.03	33.20	15.99	34.89	157.43	113.02	3.54	
5500.00	5483.94	20.44	141.02	5209.70	33.94	16.32	35.06	159.78	114.33	3.52	
5600.00	5583.91	20.44	141.02	5303.38	34.68	16.66	35.23	162.13	115.63	3.49	
5700.00	5683.88	20.44	141.02	5397.05	35.41	16.99	35.39	164.49	116.94	3.46	
5800.00	5783.86	20.44	141.02	5490.73	36.15	17.32	35.54	166.84	118.24	3.43	
5900.00	5883.83	20.44	141.02	5584.40	36.89	17.65	35.69	169.20	119.55	3.41	
6000.00	5983.80	20.44	141.02	5678.08	37.63	17.99	35.84	171.55	120.85	3.38	
6100.00	6083.77	20.44	141.02	5771.75	38.36	18.32	35.98	173.91	122.14	3.36	
6200.00	6183.74	20.44	141.02	5865.42	39.10	18.66	36.12	176.27	123.43	3.34	
6300.00	6283.71	20.44	141.02	5959.10	39.84	18.99	36.25	178.63	124.73	3.31	
6400.00	6383.68	20.44	141.02	6052.77	40.57	19.32	36.38	180.99	126.02	3.29	
6500.00	6483.69	19.62	144.81	6146.52	41.28	19.66	36.59	183.35	127.27	3.27	
6600.00	6583.12	16.94	168.91	6241.07	41.39	19.89	24.72	185.83	127.45	3.18	
6700.00	6681.49	17.64	195.51	6335.14	40.86	19.98	359.46	188.71	128.38	3.13	
6800.00	6778.88	21.29	216.35	6427.06	39.75	19.90	335.88	191.89	130.28	3.11	
6900.00	6875.38	26.66	230.12	6515.27	38.17	19.65	321.06	195.27	133.04	3.14	
7000.00	6971.08	32.86	239.21	6598.35	36.24	19.18	312.88	198.73	136.50	3.19	
7100.00	7066.06	39.48	245.56	6675.01	34.13	18.46	308.34	202.13	140.48	3.28	
7200.00	7160.43	46.31	250.29	6744.12	32.08	17.39	305.73	205.36	144.75	3.39	
7300.00	7254.28	53.26	254.03	6804.69	30.35	15.91	304.16	208.31	149.03	3.51	
7400.00	7347.73	60.28	257.12	6855.88	29.15	14.05	303.18	210.89	152.84	3.63	
7500.00	7440.89	67.33	259.80	6896.99	28.54	12.08	302.51	213.00	156.01	3.74	
7600.00	7533.86	74.41	262.21	6927.44	28.50	10.57	302.02	214.60	158.39	3.82	
7700.00	7626.75	81.51	264.45	6946.80	28.91	10.29	301.62	215.65	159.44	3.84	
7800.00	7719.67	88.63	266.62	6954.78	29.68	11.57	301.26	216.12	159.34	3.81	
7900.00	7818.31	90.00	267.03	6955.00	30.65	12.39	301.15	216.50	158.01	3.70	
8000.00	7918.31	90.00	267.03	6955.00	31.79	12.94	301.08	216.93	156.22	3.57	
8100.00	8018.31	90.00	267.03	6955.00	33.12	13.52	301.02	217.35	154.14	3.44	
8200.00	8118.31	90.00	267.03	6955.00	34.62	14.14	300.95	217.77	151.88	3.30	
8300.00	8218.31	90.00	267.03	6955.00	36.27	14.78	300.88	218.20	149.28	3.17	
8400.00	8318.31	90.00	267.03	6955.00	38.05	15.43	300.82	218.62	146.51	3.03	
8500.00	8418.31	90.00	267.03	6955.00	39.95	16.10	300.75	219.05	143.50	2.90	
8600.00	8518.31	90.00	267.03	6955.00	41.94	16.78	300.69	219.47	140.47	2.78	
8700.00	8618.30	90.00	267.03	6955.00	44.02	17.46	300.62	219.90	137.27	2.66	
8800.00	8718.30	90.00	267.03	6955.00	46.18	18.15	300.55	220.32	133.80	2.55	
8900.00	8818.30	90.00	267.03	6955.00	48.41	18.84	300.49	220.75	130.23	2.44	SF(Lo)
9000.00	8918.30	90.00	267.03	6955.00	50.69	19.54	300.42	221.18	126.63	2.34	SF(Lo)

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
9100.00	9018.30	90.00	267.03	6955.00	53.02	20.24	300.36	221.60	122.96	2.25	SF(Lo)
9200.00	9118.30	90.00	267.03	6955.00	55.39	20.93	300.29	222.03	119.21	2.16	SF(Lo)
9300.00	9218.30	90.00	267.03	6955.00	57.80	21.64	300.23	222.46	115.40	2.08	SF(Lo)
9400.00	9318.30	90.00	267.03	6955.00	60.25	22.34	300.17	222.88	111.51	2.00	SF(Lo)
9500.00	9418.29	90.00	267.03	6955.00	62.73	23.04	300.10	223.31	107.57	1.93	SF(Lo)
9600.00	9518.29	90.00	267.03	6955.00	65.23	23.74	300.04	223.74	103.58	1.86	SF(Lo)
9700.00	9618.29	90.00	267.03	6955.00	67.75	24.45	299.98	224.17	99.55	1.80	SF(Lo)
9800.00	9718.29	90.00	267.03	6955.00	70.30	25.16	299.91	224.59	95.47	1.74	SF(Lo)
9900.00	9818.29	90.00	267.03	6955.00	72.87	25.86	299.85	225.02	91.36	1.68	SF(Lo)
10000.00	9918.29	90.00	267.03	6955.00	75.45	26.57	299.79	225.45	87.23	1.63	SF(Lo)
10100.00	10018.29	90.00	267.03	6955.00	78.05	27.28	299.73	225.88	83.06	1.58	SF(Lo)
10200.00	10118.29	90.00	267.03	6955.00	80.66	27.99	299.66	226.31	78.87	1.53	SF(Lo)
10300.00	10218.28	90.00	267.03	6955.00	83.28	28.70	299.60	226.74	74.66	1.49	SF(Med)
10400.00	10318.28	90.00	267.03	6955.00	85.92	29.41	299.54	227.17	70.44	1.45	SF(Med)
10500.00	10418.28	90.00	267.03	6955.00	88.56	30.12	299.48	227.60	66.21	1.41	SF(Med)
10600.00	10518.28	90.00	267.03	6955.00	91.22	30.84	299.42	228.03	61.97	1.37	SF(Med)
10700.00	10618.28	90.00	267.03	6955.00	93.88	31.55	299.36	228.46	57.73	1.34	SF(Med)
10800.00	10718.28	90.00	267.03	6955.00	96.55	32.27	299.30	228.89	53.50	1.31	SF(Med)
10900.00	10818.28	90.00	267.03	6955.00	99.23	32.98	299.24	229.32	49.27	1.27	SF(Med)
11000.00	10918.28	90.00	267.03	6955.00	101.91	33.70	299.17	229.76	44.96	1.24	SF(Med)
11100.00	11018.28	90.00	267.03	6955.00	104.61	34.41	299.11	230.19	40.63	1.21	SF(Med)
11200.00	11118.27	90.00	267.03	6955.00	107.30	35.13	299.06	230.62	36.31	1.19	SF(Med)
11300.00	11218.27	90.00	267.03	6955.00	110.00	35.84	299.00	231.05	32.02	1.16	SF(Med)
11400.00	11318.27	90.00	267.03	6955.00	112.71	36.56	298.94	231.49	27.60	1.14	SF(Med)
11500.00	11418.27	90.00	267.03	6955.00	115.42	37.28	298.88	231.92	23.18	1.11	SF(Med)
11600.00	11518.27	90.00	267.03	6955.00	118.14	38.00	298.82	232.35	18.78	1.09	SF(Med)
11700.00	11618.27	90.00	267.03	6955.00	120.85	38.72	298.76	232.78	14.32	1.07	SF(Med)
11800.00	11718.27	90.00	267.03	6955.00	123.58	39.44	298.70	233.22	9.83	1.04	SF(Med)
11900.00	11818.27	90.00	267.03	6955.00	126.30	40.16	298.64	233.65	5.35	1.02	SF(Med)
12000.00	11918.26	90.00	267.03	6955.00	129.03	40.88	298.59	234.09	0.83	1.00	SF(Med)
12100.00	12018.26	90.00	267.03	6955.00	131.76	41.60	298.53	234.52	-3.77	0.98	SF(Hi)
12200.00	12118.26	90.00	267.03	6955.00	134.50	42.32	298.47	234.95	-8.36	0.97	SF(Hi)
12300.00	12218.26	90.00	267.03	6955.00	137.24	43.04	298.41	235.39	-12.94	0.95	SF(Hi)
12400.00	12318.26	90.00	267.03	6955.00	139.98	43.76	298.36	235.82	-17.53	0.93	SF(Hi)
12500.00	12418.26	90.00	267.03	6955.00	142.72	44.48	298.30	236.26	-22.12	0.91	SF(Hi)
12600.00	12518.26	90.00	267.03	6955.00	145.46	45.20	298.24	236.69	-26.70	0.90	SF(Hi)
12700.00	12618.26	90.00	267.03	6955.00	148.21	45.93	298.18	237.13	-31.29	0.88	SF(Hi)
12800.00	12718.25	90.00	267.03	6955.00	150.96	46.65	298.13	237.57	-35.89	0.87	SF(Hi)
12900.00	12818.25	90.00	267.03	6955.00	153.71	47.37	298.07	238.00	-40.48	0.85	SF(Hi)
13000.00	12918.25	90.00	267.03	6955.00	156.46	48.10	298.02	238.44	-45.08	0.84	SF(Hi)
13100.00	13018.25	90.00	267.03	6955.00	159.22	48.82	297.96	238.88	-49.68	0.83	SF(Hi)
13200.00	13118.25	90.00	267.03	6955.00	161.97	49.54	297.91	239.31	-54.29	0.82	SF(Hi)
13300.00	13218.25	90.00	267.03	6955.00	164.73	50.27	297.85	239.75	-58.90	0.80	SF(Hi)
13400.00	13318.25	90.00	267.03	6955.00	167.49	50.99	297.79	240.19	-63.52	0.79	SF(Hi)
13500.00	13418.25	90.00	267.03	6955.00	170.25	51.72	297.74	240.62	-68.14	0.78	SF(Hi)
13600.00	13518.24	90.00	267.03	6955.00	173.01	52.44	297.69	241.06	-72.76	0.77	SF(Hi)
13700.00	13618.24	90.00	267.03	6955.00	175.77	53.17	297.63	241.50	-77.39	0.76	SF(Hi)
13800.00	13718.24	90.00	267.03	6955.00	178.53	53.89	297.58	241.94	-82.03	0.75	SF(Hi)
13900.00	13818.24	90.00	267.03	6955.00	181.30	54.62	297.52	242.38	-86.67	0.74	SF(Hi)
14000.00	13918.24	90.00	267.03	6955.00	184.06	55.34	297.47	242.81	-91.31	0.73	SF(Hi)
14100.00	14018.24	90.00	267.03	6955.00	186.83	56.07	297.41	243.25	-95.96	0.72	SF(Hi)
14200.00	14118.24	90.00	267.03	6955.00	189.60	56.79	297.36	243.69	-100.61	0.71	SF(Hi)
14300.00	14218.24	90.00	267.03	6955.00	192.37	57.52	297.31	244.13	-105.27	0.70	SF(Hi)
14400.00	14318.23	90.00	267.03	6955.00	195.14	58.25	297.25	244.57	-109.93	0.69	SF(Hi)
14500.00	14418.23	90.00	267.03	6955.00	197.91	58.97	297.20	245.01	-114.60	0.68	SF(Hi)
14600.00	14518.23	90.00	267.03	6955.00	200.68	59.70	297.15	245.45	-119.27	0.67	SF(Hi)
14700.00	14618.23	90.00	267.03	6955.00	203.45	60.43	297.10	245.89	-123.95	0.66	SF(Hi)
14800.00	14718.23	90.00	267.03	6955.00	206.22	61.15	297.04	246.33	-128.63	0.66	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
14900.00	14818.23	90.00	267.03	6955.00	208.99	61.88	296.99	246.77	-133.31	0.65	SF(Hi)
15000.00	14918.23	90.00	267.03	6955.00	211.77	62.61	296.94	247.21	-138.00	0.64	SF(Hi)
15100.00	15018.23	90.00	267.03	6955.00	214.54	63.34	296.89	247.65	-142.69	0.63	SF(Hi)
15200.00	15118.22	90.00	267.03	6955.00	217.32	64.06	296.84	248.09	-147.38	0.63	SF(Hi)
15300.00	15218.22	90.00	267.03	6955.00	220.09	64.79	296.79	248.53	-152.08	0.62	SF(Hi)
15400.00	15318.22	90.00	267.03	6955.00	222.87	65.52	296.73	248.98	-156.79	0.61	SF(Hi)
15500.00	15418.22	90.00	267.03	6955.00	225.65	66.25	296.68	249.42	-161.50	0.61	SF(Hi)
15600.00	15518.22	90.00	267.03	6955.00	228.43	66.97	296.63	249.86	-166.21	0.60	SF(Hi)
15700.00	15618.22	90.00	267.03	6955.00	231.20	67.70	296.58	250.30	-170.92	0.59	SF(Hi)
15701.00	15619.22	90.00	267.03	6955.00	231.23	67.71	296.58	250.31	-170.97	0.59	SF(Hi)
Secondary Well: Goetzel 34C-30-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
0.00	0.00	0.00	0.00	0.00	0.00	0.00	180.35	40.08	39.34	54.65	CC (Lo)
100.00	100.00	0.00	0.00	100.00	0.11	0.11	180.35	40.08	39.12	42.01	CC (Lo)
200.00	200.00	0.00	0.00	200.00	0.34	0.34	180.35	40.08	38.67	28.56	CC (Lo)
300.00	300.00	0.00	0.00	300.00	0.56	0.56	180.35	40.08	38.22	21.63	CC (Lo)
400.00	398.84	1.98	144.12	398.83	0.76	0.76	178.95	41.48	39.20	18.22	CC (Lo)
500.00	497.45	3.95	144.12	497.30	0.96	0.96	175.30	45.82	43.12	16.96	CC (Lo)
600.00	595.60	5.91	144.12	595.07	1.19	1.16	170.59	53.36	50.22	16.95	CC (Lo)
700.00	693.26	7.87	144.12	692.03	1.46	1.37	28.35	62.80	59.24	17.62	CC (Lo)
800.00	790.59	9.81	144.12	788.20	1.77	1.59	25.64	72.52	68.55	18.25	
900.00	887.59	11.75	144.12	883.48	2.13	1.82	23.82	82.39	77.99	18.69	
1000.00	984.27	13.69	144.12	977.78	2.55	2.06	22.60	92.34	87.49	19.02	
1100.00	1080.62	15.61	144.12	1070.99	3.02	2.30	21.81	102.32	97.00	19.23	
1200.00	1176.65	17.53	144.12	1163.03	3.55	2.56	21.34	112.30	106.48	19.28	
1300.00	1272.38	19.45	144.12	1253.82	4.15	2.82	21.10	122.25	115.89	19.23	
1400.00	1368.86	20.88	144.12	1344.27	4.80	3.10	21.06	132.07	125.14	19.08	
1500.00	1468.56	20.88	144.12	1437.43	5.51	3.41	21.45	139.54	131.95	18.40	
1600.00	1568.44	20.88	144.12	1530.74	6.23	3.72	22.32	143.91	135.60	17.32	
1700.00	1668.35	20.88	144.12	1624.09	6.96	4.04	23.30	147.44	138.37	16.26	
1800.00	1768.25	20.88	144.12	1717.43	7.69	4.36	24.24	151.02	141.16	15.32	
1900.00	1868.16	20.88	144.12	1810.78	8.42	4.68	25.14	154.63	143.95	14.48	
2000.00	1968.07	20.88	144.12	1904.12	9.16	5.01	26.00	158.28	146.74	13.72	
2100.00	2067.97	20.88	144.12	1997.46	9.89	5.33	26.81	161.97	149.56	13.05	
2200.00	2167.88	20.88	144.12	2090.81	10.63	5.66	27.59	165.68	152.37	12.44	
2300.00	2267.78	20.88	144.12	2184.15	11.37	5.99	28.34	169.43	155.19	11.90	
2400.00	2367.69	20.88	144.12	2277.49	12.12	6.32	29.05	173.20	158.01	11.41	
2500.00	2467.60	20.88	144.12	2370.84	12.86	6.65	29.74	177.00	160.86	10.97	
2600.00	2567.50	20.88	144.12	2464.18	13.60	6.98	30.39	180.82	163.70	10.56	
2700.00	2667.41	20.88	144.12	2557.53	14.35	7.32	31.02	184.67	166.54	10.19	
2800.00	2767.31	20.88	144.12	2650.87	15.09	7.65	31.62	188.53	169.40	9.85	
2900.00	2867.22	20.88	144.12	2744.21	15.84	7.98	32.20	192.42	172.27	9.55	
3000.00	2967.13	20.88	144.12	2837.56	16.58	8.32	32.75	196.32	175.15	9.27	
3100.00	3067.03	20.88	144.12	2930.90	17.33	8.65	33.29	200.24	178.02	9.01	
3200.00	3166.94	20.88	144.12	3024.25	18.08	8.98	33.80	204.18	180.89	8.77	
3300.00	3266.84	20.88	144.12	3117.59	18.82	9.32	34.29	208.14	183.78	8.54	
3400.00	3366.75	20.88	144.12	3210.93	19.57	9.65	34.77	212.11	186.67	8.34	
3500.00	3466.66	20.88	144.12	3304.28	20.32	9.99	35.22	216.09	189.57	8.15	
3600.00	3566.56	20.88	144.12	3397.62	21.06	10.32	35.66	220.09	192.49	7.97	
3700.00	3666.47	20.88	144.12	3490.96	21.81	10.66	36.09	224.10	195.40	7.81	
3800.00	3766.37	20.88	144.12	3584.31	22.56	10.99	36.50	228.12	198.33	7.66	
3900.00	3866.28	20.88	144.12	3677.65	23.31	11.33	36.89	232.15	201.26	7.52	
4000.00	3966.19	20.88	144.12	3771.00	24.05	11.67	37.28	236.19	204.18	7.38	
4100.00	4066.09	20.88	144.12	3864.34	24.80	12.00	37.64	240.25	207.11	7.25	
4200.00	4166.00	20.88	144.12	3957.68	25.55	12.34	38.00	244.31	210.04	7.13	
4300.00	4265.90	20.88	144.12	4051.03	26.30	12.67	38.35	248.38	212.98	7.01	

5D Anti-Collision Report

Secondary Well: Goetzel 34C-30-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
4400.00	4365.81	20.88	144.12	4144.37	27.05	13.01	38.68	252.46	215.92	6.91	
4500.00	4465.72	20.88	144.12	4237.72	27.79	13.35	39.00	256.55	218.87	6.81	
4600.00	4565.62	20.88	144.12	4331.06	28.54	13.68	39.32	260.65	221.82	6.71	
4700.00	4665.53	20.88	144.12	4424.40	29.29	14.02	39.62	264.75	224.78	6.62	
4800.00	4765.43	20.88	144.12	4517.75	30.04	14.36	39.92	268.87	227.74	6.54	
4900.00	4865.34	20.88	144.12	4611.09	30.79	14.69	40.20	272.99	230.71	6.46	
5000.00	4965.25	20.88	144.12	4704.43	31.54	15.03	40.48	277.11	233.68	6.38	
5100.00	5065.15	20.88	144.12	4797.78	32.29	15.37	40.75	281.24	236.63	6.30	
5200.00	5165.06	20.88	144.12	4891.12	33.03	15.70	41.01	285.38	239.59	6.23	
5300.00	5264.96	20.88	144.12	4984.47	33.78	16.04	41.26	289.52	242.56	6.16	
5400.00	5364.87	20.88	144.12	5077.81	34.53	16.38	41.51	293.67	245.52	6.10	
5500.00	5464.78	20.88	144.12	5171.15	35.28	16.72	41.75	297.83	248.50	6.04	
5600.00	5564.68	20.88	144.12	5264.50	36.03	17.05	41.98	301.98	251.47	5.98	
5700.00	5664.59	20.88	144.12	5357.84	36.78	17.39	42.21	306.15	254.45	5.92	
5800.00	5764.50	20.88	144.12	5451.19	37.53	17.73	42.43	310.32	257.43	5.87	
5900.00	5864.40	20.88	144.12	5544.53	38.28	18.06	42.64	314.49	260.41	5.82	
6000.00	5964.31	20.88	144.12	5637.87	39.02	18.40	42.85	318.67	263.40	5.77	
6100.00	6064.21	20.88	144.12	5731.22	39.77	18.74	43.06	322.85	266.39	5.72	
6200.00	6164.12	20.88	144.12	5824.56	40.52	19.08	43.25	327.03	269.38	5.67	
6300.00	6264.03	20.88	144.12	5917.91	41.27	19.41	43.45	331.22	272.38	5.63	
6400.00	6363.93	20.88	144.12	6011.25	42.02	19.75	43.64	335.42	275.37	5.59	
6500.00	6463.84	20.88	144.12	6104.59	42.77	20.09	43.82	339.61	278.37	5.55	
6600.00	6563.69	20.88	144.12	6197.89	43.52	20.43	29.56	343.47	281.49	5.54	
6700.00	6660.72	19.24	153.60	6288.78	44.12	20.74	359.90	346.36	285.43	5.68	
6800.00	6756.75	17.77	177.53	6379.97	44.04	20.95	331.79	349.74	290.50	5.90	
6900.00	6854.81	19.44	201.74	6473.05	43.25	21.03	312.62	353.81	296.41	6.16	
7000.00	6955.10	23.76	220.26	6566.38	41.78	20.94	300.35	358.51	302.93	6.45	
7100.00	7057.78	29.74	232.86	6658.10	39.70	20.66	292.04	363.72	309.76	6.74	
7200.00	7162.95	36.71	241.52	6746.07	37.12	20.12	286.03	369.26	316.55	7.01	
7300.00	7270.68	44.31	247.81	6827.96	34.33	19.16	281.49	374.90	322.91	7.21	
7400.00	7380.96	52.35	252.66	6901.24	31.76	17.56	277.99	380.40	328.56	7.34	
7500.00	7493.66	60.74	256.63	6963.33	29.93	15.16	275.30	385.48	333.09	7.36	
7600.00	7608.57	69.40	260.06	7011.73	29.12	12.38	273.29	389.87	336.07	7.25	
7700.00	7725.35	78.25	263.15	7044.23	29.23	10.57	271.91	393.33	337.31	7.02	
7800.00	7843.55	87.25	266.09	7059.13	30.04	11.41	271.12	395.65	336.80	6.72	
7900.00	7949.28	90.00	266.98	7060.00	31.05	12.59	271.01	396.45	335.35	6.49	
8000.00	8049.27	90.00	266.98	7060.00	32.14	13.14	271.01	397.04	333.60	6.26	
8100.00	8149.27	90.00	266.98	7060.00	33.42	13.73	271.01	397.64	331.55	6.02	
8200.00	8249.27	90.00	266.98	7060.00	34.88	14.36	271.01	398.24	329.10	5.76	
8300.00	8349.27	90.00	266.98	7060.00	36.48	15.01	271.01	398.83	326.39	5.51	
8400.00	8449.27	90.00	266.98	7060.00	38.22	15.68	271.00	399.43	323.39	5.25	
8500.00	8549.26	90.00	266.98	7060.00	40.07	16.36	271.00	400.03	320.24	5.01	
8600.00	8649.26	90.00	266.98	7060.00	42.03	17.05	271.00	400.63	316.64	4.77	
8700.00	8749.26	90.00	266.98	7060.00	44.07	17.75	271.00	401.22	313.02	4.55	
8800.00	8849.26	90.00	266.98	7060.00	46.20	18.45	271.00	401.82	309.23	4.34	
8900.00	8949.26	90.00	266.98	7060.00	48.39	19.16	271.00	402.42	305.48	4.15	
9000.00	9049.26	90.00	266.98	7060.00	50.65	19.86	271.00	403.01	301.44	3.97	
9100.00	9149.25	90.00	266.98	7060.00	52.96	20.57	270.99	403.61	297.35	3.80	
9200.00	9249.25	90.00	266.98	7060.00	55.31	21.28	270.99	404.21	293.18	3.64	
9300.00	9349.25	90.00	266.98	7060.00	57.70	21.99	270.99	404.80	288.95	3.49	
9400.00	9449.25	90.00	266.98	7060.00	60.13	22.70	270.99	405.40	284.65	3.36	
9500.00	9549.25	90.00	266.98	7060.00	62.59	23.41	270.99	406.00	280.30	3.23	
9600.00	9649.25	90.00	266.98	7060.00	65.08	24.12	270.99	406.60	275.90	3.11	
9700.00	9749.24	90.00	266.98	7060.00	67.59	24.83	270.99	407.19	271.46	3.00	
9800.00	9849.24	90.00	266.98	7060.00	70.12	25.54	270.98	407.79	266.98	2.90	
9900.00	9949.24	90.00	266.98	7060.00	72.68	26.26	270.98	408.39	262.44	2.80	
10000.00	10049.24	90.00	266.98	7060.00	75.25	26.97	270.98	408.98	257.84	2.71	
10100.00	10149.24	90.00	266.98	7060.00	77.84	27.68	270.98	409.58	253.21	2.62	

5D Anti-Collision Report

Secondary Well: Goetzel 34C-30-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
10200.00	10249.23	90.00	266.98	7060.00	80.44	28.39	270.98	410.18	248.55	2.54	
10300.00	10349.23	90.00	266.98	7060.00	83.05	29.11	270.98	410.77	243.88	2.46	SF(Lo)
10400.00	10449.23	90.00	266.98	7060.00	85.68	29.82	270.98	411.37	239.18	2.39	SF(Lo)
10500.00	10549.23	90.00	266.98	7060.00	88.32	30.54	270.97	411.97	234.46	2.32	SF(Lo)
10600.00	10649.23	90.00	266.98	7060.00	90.96	31.25	270.97	412.57	229.73	2.26	SF(Lo)
10700.00	10749.23	90.00	266.98	7060.00	93.62	31.97	270.97	413.16	224.98	2.20	SF(Lo)
10800.00	10849.22	90.00	266.98	7060.00	96.29	32.68	270.97	413.76	220.21	2.14	SF(Lo)
10900.00	10949.22	90.00	266.98	7060.00	98.96	33.40	270.97	414.36	215.44	2.08	SF(Lo)
11000.00	11049.22	90.00	266.98	7060.00	101.64	34.12	270.97	414.95	210.65	2.03	SF(Lo)
11100.00	11149.22	90.00	266.98	7060.00	104.32	34.84	270.97	415.55	205.85	1.98	SF(Lo)
11200.00	11249.22	90.00	266.98	7060.00	107.01	35.55	270.96	416.15	201.04	1.93	SF(Lo)
11300.00	11349.21	90.00	266.98	7060.00	109.71	36.27	270.96	416.74	196.22	1.89	SF(Lo)
11400.00	11449.21	90.00	266.98	7060.00	112.41	36.99	270.96	417.34	191.39	1.85	SF(Lo)
11500.00	11549.21	90.00	266.98	7060.00	115.12	37.71	270.96	417.94	186.56	1.81	SF(Lo)
11600.00	11649.21	90.00	266.98	7060.00	117.83	38.43	270.96	418.54	181.71	1.77	SF(Lo)
11700.00	11749.21	90.00	266.98	7060.00	120.55	39.15	270.96	419.13	176.86	1.73	SF(Lo)
11800.00	11849.21	90.00	266.98	7060.00	123.26	39.87	270.96	419.73	172.01	1.69	SF(Lo)
11900.00	11949.20	90.00	266.98	7060.00	125.99	40.59	270.95	420.33	167.14	1.66	SF(Lo)
12000.00	12049.20	90.00	266.98	7060.00	128.71	41.31	270.95	420.92	162.27	1.63	SF(Lo)
12100.00	12149.20	90.00	266.98	7060.00	131.44	42.03	270.95	421.52	157.40	1.60	SF(Lo)
12200.00	12249.20	90.00	266.98	7060.00	134.17	42.75	270.95	422.12	152.52	1.57	SF(Lo)
12300.00	12349.20	90.00	266.98	7060.00	136.91	43.47	270.95	422.71	147.64	1.54	SF(Lo)
12400.00	12449.20	90.00	266.98	7060.00	139.65	44.20	270.95	423.31	142.75	1.51	SF(Lo)
12500.00	12549.19	90.00	266.98	7060.00	142.38	44.92	270.95	423.91	137.85	1.48	SF(Med)
12600.00	12649.19	90.00	266.98	7060.00	145.13	45.64	270.94	424.51	132.96	1.46	SF(Med)
12700.00	12749.19	90.00	266.98	7060.00	147.87	46.36	270.94	425.10	128.06	1.43	SF(Med)
12800.00	12849.19	90.00	266.98	7060.00	150.62	47.09	270.94	425.70	123.15	1.41	SF(Med)
12900.00	12949.19	90.00	266.98	7060.00	153.37	47.81	270.94	426.30	118.24	1.38	SF(Med)
13000.00	13049.18	90.00	266.98	7060.00	156.12	48.54	270.94	426.89	113.33	1.36	SF(Med)
13100.00	13149.18	90.00	266.98	7060.00	158.87	49.26	270.94	427.49	108.42	1.34	SF(Med)
13200.00	13249.18	90.00	266.98	7060.00	161.62	49.98	270.94	428.09	103.50	1.32	SF(Med)
13300.00	13349.18	90.00	266.98	7060.00	164.38	50.71	270.94	428.68	98.58	1.30	SF(Med)
13400.00	13449.18	90.00	266.98	7060.00	167.13	51.43	270.93	429.28	93.66	1.28	SF(Med)
13500.00	13549.18	90.00	266.98	7060.00	169.89	52.16	270.93	429.88	88.73	1.26	SF(Med)
13600.00	13649.17	90.00	266.98	7060.00	172.65	52.88	270.93	430.48	83.80	1.24	SF(Med)
13700.00	13749.17	90.00	266.98	7060.00	175.41	53.61	270.93	431.07	78.87	1.22	SF(Med)
13800.00	13849.17	90.00	266.98	7060.00	178.17	54.33	270.93	431.67	73.94	1.21	SF(Med)
13900.00	13949.17	90.00	266.98	7060.00	180.93	55.06	270.93	432.27	69.01	1.19	SF(Med)
14000.00	14049.17	90.00	266.98	7060.00	183.70	55.78	270.93	432.86	64.07	1.17	SF(Med)
14100.00	14149.16	90.00	266.98	7060.00	186.46	56.51	270.93	433.46	59.13	1.16	SF(Med)
14200.00	14249.16	90.00	266.98	7060.00	189.23	57.24	270.92	434.06	54.19	1.14	SF(Med)
14300.00	14349.16	90.00	266.98	7060.00	192.00	57.96	270.92	434.65	49.25	1.13	SF(Med)
14400.00	14449.16	90.00	266.98	7060.00	194.76	58.69	270.92	435.25	44.30	1.11	SF(Med)
14500.00	14549.16	90.00	266.98	7060.00	197.53	59.41	270.92	435.85	39.36	1.10	SF(Med)
14600.00	14649.16	90.00	266.98	7060.00	200.30	60.14	270.92	436.45	34.41	1.09	SF(Med)
14700.00	14749.15	90.00	266.98	7060.00	203.07	60.87	270.92	437.04	29.46	1.07	SF(Med)
14800.00	14849.15	90.00	266.98	7060.00	205.84	61.60	270.92	437.64	24.51	1.06	SF(Med)
14900.00	14949.15	90.00	266.98	7060.00	208.62	62.32	270.92	438.24	19.56	1.05	SF(Med)
15000.00	15049.15	90.00	266.98	7060.00	211.39	63.05	270.91	438.83	14.61	1.03	SF(Med)
15100.00	15149.15	90.00	266.98	7060.00	214.16	63.78	270.91	439.43	9.66	1.02	SF(Med)
15200.00	15249.15	90.00	266.98	7060.00	216.94	64.50	270.91	440.03	4.70	1.01	SF(Med)
15300.00	15349.14	90.00	266.98	7060.00	219.71	65.23	270.91	440.62	-0.26	1.00	SF(Hi)
15400.00	15449.14	90.00	266.98	7060.00	222.49	65.96	270.91	441.22	-5.21	0.99	SF(Hi)
15500.00	15549.14	90.00	266.98	7060.00	225.26	66.69	270.91	441.82	-10.17	0.98	SF(Hi)
15600.00	15649.14	90.00	266.98	7060.00	228.04	67.42	270.91	442.42	-15.13	0.97	SF(Hi)
15700.00	15749.14	90.00	266.98	7060.00	230.82	68.14	270.91	443.01	-20.09	0.96	SF(Hi)
15701.00	15750.13	90.00	266.98	7060.00	230.84	68.15	270.91	443.02	-20.14	0.96	SF(Hi)

