

**5D Plan Report**

Synergy Resources

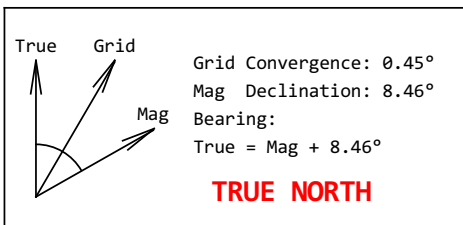
Field Name: *CO N - NAD 83*
Site Name: *Goetzel 25-29 Pad*
Well Name: *Goetzel 34N-30C-M*
Plan: *P1:V1*

5 December 2016





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



Plan Data for Goetzel 34N-30C-M

Plan Point Information:

DogLeg Severity Unit: °/100.00ft

Position offsets from Slot centre

MD	Inc	Az	TVD	+N/-S	+E/-W	VSec	DLS	Toolface
(USft)	(°)	(°)	(USft)	(USft)	(USft)	(USft)	(DLSU)	(°)
0.00	0.00	0.00	0.00	-0.00	-0.00	0.00	0.00	0.0
450.00	0.00	0.00	450.00	-0.00	-0.00	0.00	0.00	0.0
1472.21	20.44	141.47	1450.65	-141.16	112.40	-68.78	2.00	141.5
6464.48	20.44	141.47	6128.48	-1505.31	1198.59	-733.45	0.00	0.0
7737.61	90.00	267.48	6955.00	-1785.07	509.28	6.44	8.00	124.3
15628.56	90.00	267.48	6955.00	-2131.52	-7374.06	7675.95	0.00	0.0

Target Set Information:

Name: Goetzel 34N-30C-M

Position offsets from Slot centre

Name	TVD	+N/-S	+E/-W	Northing	Easting	Lat	Long
	(USft)	(USft)	(USft)	(USft)	(USft)	(°)	(°)
LP 34N-30C-M	6955.00	-1785.07	509.28	1408502.02	3194161.00	40.452643	-104.802310
PBHL 34N-30C-M	6955.00	-2131.52	-7374.06	1408093.72	3186280.62	40.451689	-104.830637

Plan Data for Goetzel 34N-30C-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 34N-30C-M
Position:
Offset is from Site centre
+N/-S: -200.00USft
Northing: 1410283.04USft
Latitude: 40.457543°
+E/-W: -1.67USft
Easting: 3193637.73USft
Longitude: -104.804140°
Elevation Above VRD: 4732.00USft

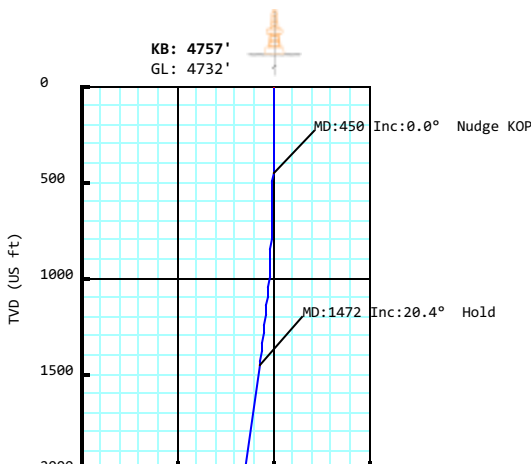
Well: Goetzel 34N-30C-M
Type: Main-Well
File Number:

Plan Folder: P1
Plan: P1:V1
Vertical Section: Position offset of origin from Slot centre:
+N/-S: 0.00USft
+E/-W: 0.00USft
Azimuth: 253.88°

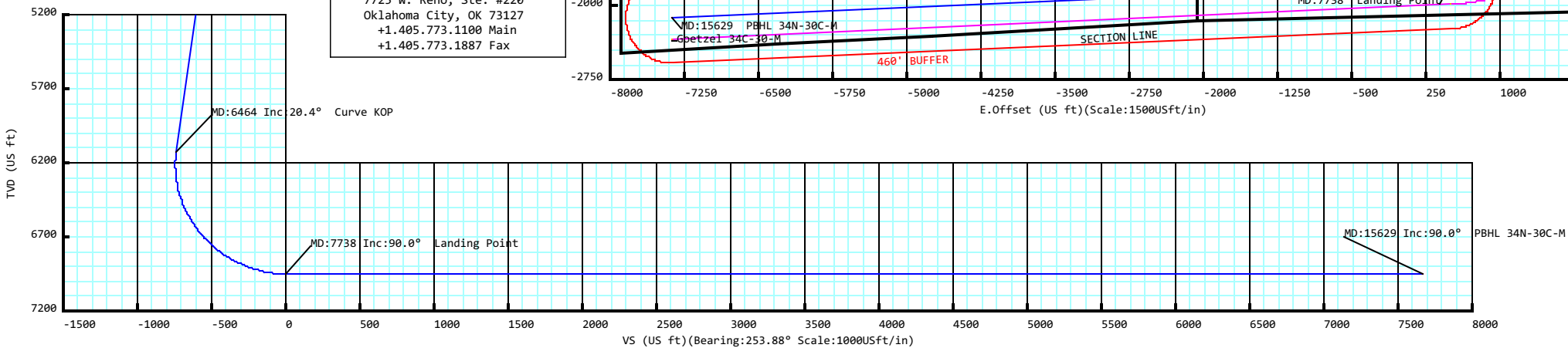
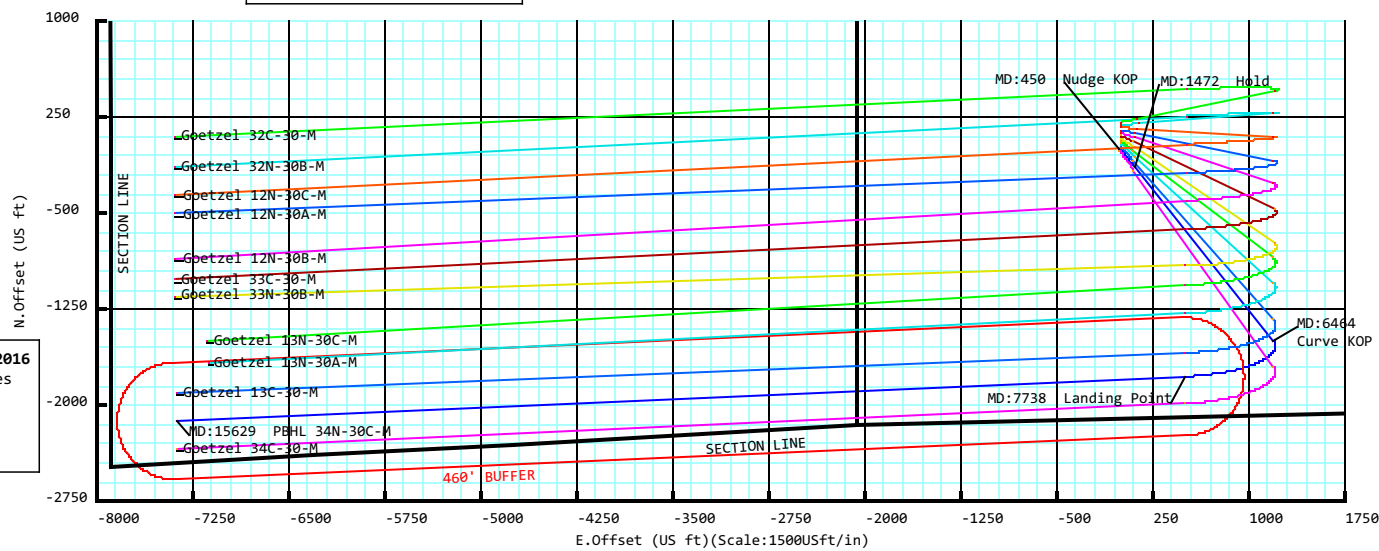
Magnetic Parameters:
Model: Field Strength: Declination: Dip: Date:
bggm2016 52524(nT) 8.46° 66.93° 2016-11-18



- Goetzel 34N-30C-M
- Goetzel 32C-30-M
- Goetzel 32N-30B-M
- Goetzel 12N-30C-M
- Goetzel 12N-30A-M
- Goetzel 12N-30B-M
- Goetzel 33C-30-M
- Goetzel 33N-30B-M
- Goetzel 13N-30C-M
- Goetzel 13N-30A-M
- Goetzel 13C-30-M
- Goetzel 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 34N-30C-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 34N-30C-M	Position (Relative to Site Centre)			
	+N/-S: -200.00 US ft	Northing: 1410283.04 US ft	Latitude: 40.457543000	
	+E/-W: -1.67 US ft	Easting: 3193637.73 US ft	Longitude: -104.804140000	
	Slot TVD Reference: Ground Elevation			
	Elevation above MSL: 4732.00 US ft			
	Comment:			
Well: Goetzel 34N-30C-M	Type:Main well		UWI:	Plan:P1:V1
	File Number:	Comment:		
	Closure Distance:7675.95US ft		Closure Azimuth:253.88°	
	Vertical Section: Position of Origin (Relative to Slot centre)			
	+N/-S: 0.00 US ft		+E/-W: 0.00 US ft	Az: 253.88°
	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 34N-30C-M Comment:

Target Name:	Shape:	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (USFt)	Easting (USFt)	Comment
LP 34N-30C-M	Point	6955.00	-1785.07	509.28	1408502.02	3194161.00	
PBHL 34N-30C-M	Point	6955.00	-2131.52	-7374.06	1408093.72	3186280.62	

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	
450.00	0.00	0.00	450.00	0.00	-0.00	-0.00	0.00	0.00	0.00	Nudge KOP
1472.21	20.44	141.47	1450.65	-68.78	-141.16	112.40	2.00	0.00	2.00	Hold
6464.48	20.44	141.47	6128.48	-733.45	-1505.31	1198.59	0.00	0.00	0.00	Curve KOP
7737.61	90.00	267.48	6955.00	6.44	-1785.07	509.28	5.46	9.90	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
15628.56	90.00	267.48	6955.00	7675.95	-2131.52	-7374.06	0.00	0.00	0.00	PBHL 34N-30C-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	
450.00	0.00	0.00	450.00	0.00	-0.00	-0.00	0.00	0.00	0.00	
500.00	1.00	141.47	500.00	-0.17	-0.34	0.27	2.00	0.00	2.00	
600.00	3.00	141.47	599.93	-1.50	-3.07	2.45	2.00	-0.00	2.00	
700.00	5.00	141.47	699.68	-4.16	-8.53	6.79	2.00	-0.00	2.00	
800.00	7.00	141.47	799.13	-8.14	-16.71	13.30	2.00	0.00	2.00	
900.00	9.00	141.47	898.15	-13.44	-27.59	21.97	2.00	0.00	2.00	
1000.00	11.00	141.47	996.63	-20.06	-41.18	32.79	2.00	-0.00	2.00	
1100.00	13.00	141.47	1094.44	-27.99	-57.44	45.74	2.00	-0.00	2.00	
1200.00	15.00	141.47	1191.46	-37.21	-76.36	60.80	2.00	-0.00	2.00	
1300.00	17.00	141.47	1287.58	-47.71	-97.93	77.97	2.00	0.00	2.00	
1400.00	19.00	141.47	1382.68	-59.49	-122.10	97.22	2.00	-0.00	2.00	
1472.21	20.44	141.47	1450.65	-68.78	-141.16	112.40	2.00	0.00	2.00	
1500.00	20.44	141.47	1476.70	-72.48	-148.76	118.45	0.00	0.00	0.00	
1600.00	20.44	141.47	1570.40	-85.79	-176.08	140.20	0.00	0.00	0.00	
1700.00	20.44	141.47	1664.10	-99.11	-203.41	161.96	0.00	0.00	0.00	
1800.00	20.44	141.47	1757.80	-112.42	-230.73	183.72	0.00	0.00	0.00	
1900.00	20.44	141.47	1851.50	-125.74	-258.06	205.48	0.00	0.00	0.00	
2000.00	20.44	141.47	1945.20	-139.05	-285.38	227.23	0.00	0.00	0.00	
2100.00	20.44	141.47	2038.90	-152.36	-312.71	248.99	0.00	0.00	0.00	
2200.00	20.44	141.47	2132.61	-165.68	-340.03	270.75	0.00	0.00	0.00	
2300.00	20.44	141.47	2226.31	-178.99	-367.36	292.51	0.00	0.00	0.00	
2400.00	20.44	141.47	2320.01	-192.30	-394.68	314.26	0.00	0.00	0.00	
2500.00	20.44	141.47	2413.71	-205.62	-422.01	336.02	0.00	0.00	0.00	
2600.00	20.44	141.47	2507.41	-218.93	-449.33	357.78	0.00	0.00	0.00	
2700.00	20.44	141.47	2601.11	-232.25	-476.66	379.54	0.00	0.00	0.00	
2800.00	20.44	141.47	2694.81	-245.56	-503.98	401.29	0.00	0.00	0.00	
2900.00	20.44	141.47	2788.51	-258.87	-531.31	423.05	0.00	0.00	0.00	
3000.00	20.44	141.47	2882.22	-272.19	-558.64	444.81	0.00	0.00	0.00	
3100.00	20.44	141.47	2975.92	-285.50	-585.96	466.57	0.00	0.00	0.00	
3200.00	20.44	141.47	3069.62	-298.82	-613.29	488.32	0.00	0.00	0.00	
3300.00	20.44	141.47	3163.32	-312.13	-640.61	510.08	0.00	0.00	0.00	
3400.00	20.44	141.47	3257.02	-325.44	-667.94	531.84	0.00	0.00	0.00	
3500.00	20.44	141.47	3350.72	-338.76	-695.26	553.60	0.00	0.00	0.00	
3600.00	20.44	141.47	3444.42	-352.07	-722.59	575.35	0.00	0.00	0.00	
3700.00	20.44	141.47	3538.13	-365.39	-749.91	597.11	0.00	0.00	0.00	
3800.00	20.44	141.47	3631.83	-378.70	-777.24	618.87	0.00	0.00	0.00	
3900.00	20.44	141.47	3725.53	-392.01	-804.56	640.63	0.00	0.00	0.00	
4000.00	20.44	141.47	3819.23	-405.33	-831.89	662.38	0.00	0.00	0.00	
4100.00	20.44	141.47	3912.93	-418.64	-859.21	684.14	0.00	0.00	0.00	
4200.00	20.44	141.47	4006.63	-431.95	-886.54	705.90	0.00	0.00	0.00	
4300.00	20.44	141.47	4100.33	-445.27	-913.86	727.66	0.00	0.00	0.00	
4400.00	20.44	141.47	4194.03	-458.58	-941.19	749.41	0.00	0.00	0.00	
4500.00	20.44	141.47	4287.74	-471.90	-968.51	771.17	0.00	0.00	0.00	
4600.00	20.44	141.47	4381.44	-485.21	-995.84	792.93	0.00	0.00	0.00	
4700.00	20.44	141.47	4475.14	-498.52	-1023.16	814.69	0.00	0.00	0.00	
4800.00	20.44	141.47	4568.84	-511.84	-1050.49	836.44	0.00	0.00	0.00	
4900.00	20.44	141.47	4662.54	-525.15	-1077.82	858.20	0.00	0.00	0.00	
5000.00	20.44	141.47	4756.24	-538.47	-1105.14	879.96	0.00	0.00	0.00	
5100.00	20.44	141.47	4849.94	-551.78	-1132.47	901.72	0.00	0.00	0.00	

5D Plan Report

Interpolated Points: (Relative to Slot centre)(TVD relative to Drill Floor)										Comment
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N. Offset (US ft)	E. Offset (US ft)	B. Rate (°/100US ft)	T. Rate (°/100US ft)	DLS (°/100US ft)	
5200.00	20.44	141.47	4943.65	-565.09	-1159.79	923.47	0.00	0.00	0.00	
5300.00	20.44	141.47	5037.35	-578.41	-1187.12	945.23	0.00	0.00	0.00	
5400.00	20.44	141.47	5131.05	-591.72	-1214.44	966.99	0.00	0.00	0.00	
5500.00	20.44	141.47	5224.75	-605.04	-1241.77	988.75	0.00	0.00	0.00	
5600.00	20.44	141.47	5318.45	-618.35	-1269.09	1010.50	0.00	0.00	0.00	
5700.00	20.44	141.47	5412.15	-631.66	-1296.42	1032.26	0.00	0.00	0.00	
5800.00	20.44	141.47	5505.85	-644.98	-1323.74	1054.02	0.00	0.00	0.00	
5900.00	20.44	141.47	5599.55	-658.29	-1351.07	1075.78	0.00	0.00	0.00	
6000.00	20.44	141.47	5693.26	-671.61	-1378.39	1097.53	0.00	0.00	0.00	
6100.00	20.44	141.47	5786.96	-684.92	-1405.72	1119.29	0.00	0.00	0.00	
6200.00	20.44	141.47	5880.66	-698.23	-1433.04	1141.05	0.00	0.00	0.00	
6300.00	20.44	141.47	5974.36	-711.55	-1460.37	1162.81	0.00	0.00	0.00	
6400.00	20.44	141.47	6068.06	-724.86	-1487.69	1184.56	0.00	0.00	0.00	
6464.48	20.44	141.47	6128.48	-733.45	-1505.31	1198.59	0.00	0.00	0.00	Curve KOP
6500.00	18.98	148.71	6161.92	-737.32	-1515.11	1205.46	-4.11	20.37	8.00	
6600.00	16.81	173.99	6257.22	-739.04	-1543.43	1215.44	-2.17	25.28	8.00	
6700.00	18.14	200.50	6352.76	-727.20	-1572.44	1211.49	1.33	26.50	8.00	
6800.00	22.36	220.33	6446.67	-702.02	-1601.57	1193.70	4.22	19.83	8.00	
6900.00	28.19	233.25	6537.12	-664.00	-1630.24	1162.42	5.84	12.92	8.00	
7000.00	34.84	241.81	6622.37	-613.88	-1657.91	1118.24	6.65	8.56	8.00	
7100.00	41.91	247.86	6700.74	-552.63	-1684.04	1062.04	7.07	6.04	8.00	
7200.00	49.23	252.41	6770.71	-481.45	-1708.11	994.90	7.31	4.56	8.00	
7300.00	56.68	256.05	6830.93	-401.71	-1729.66	918.13	7.46	3.64	8.00	
7400.00	64.23	259.11	6880.21	-314.98	-1748.26	833.22	7.55	3.06	8.00	
7500.00	71.83	261.80	6917.61	-222.94	-1763.57	741.84	7.60	2.69	8.00	
7600.00	79.47	264.27	6942.38	-127.38	-1775.27	645.75	7.64	2.47	8.00	
7700.00	87.12	266.61	6954.05	-30.16	-1783.14	546.83	7.65	2.35	8.00	
7737.61	90.00	267.48	6955.00	6.44	-1785.07	509.28	7.66	2.31	8.00	Landing Point
7800.00	90.00	267.48	6955.00	67.08	-1787.81	446.95	0.00	0.00	0.00	
7900.00	90.00	267.48	6955.00	164.27	-1792.20	347.05	0.00	0.00	0.00	
8000.00	90.00	267.48	6955.00	261.47	-1796.59	247.14	0.00	0.00	0.00	
8100.00	90.00	267.48	6955.00	358.66	-1800.98	147.24	0.00	0.00	0.00	
8200.00	90.00	267.48	6955.00	455.85	-1805.37	47.34	0.00	0.00	0.00	
8300.00	90.00	267.48	6955.00	553.05	-1809.76	-52.57	0.00	0.00	0.00	
8400.00	90.00	267.48	6955.00	650.24	-1814.15	-152.47	0.00	0.00	0.00	
8500.00	90.00	267.48	6955.00	747.44	-1818.54	-252.37	0.00	0.00	0.00	
8600.00	90.00	267.48	6955.00	844.63	-1822.93	-352.28	0.00	0.00	0.00	
8700.00	90.00	267.48	6955.00	941.82	-1827.32	-452.18	0.00	0.00	0.00	
8800.00	90.00	267.48	6955.00	1039.02	-1831.72	-552.08	0.00	0.00	0.00	
8900.00	90.00	267.48	6955.00	1136.21	-1836.11	-651.99	0.00	0.00	0.00	
9000.00	90.00	267.48	6955.00	1233.40	-1840.50	-751.89	0.00	0.00	0.00	
9100.00	90.00	267.48	6955.00	1330.60	-1844.89	-851.79	0.00	0.00	0.00	
9200.00	90.00	267.48	6955.00	1427.79	-1849.28	-951.70	0.00	0.00	0.00	
9300.00	90.00	267.48	6955.00	1524.98	-1853.67	-1051.60	0.00	0.00	0.00	
9400.00	90.00	267.48	6955.00	1622.18	-1858.06	-1151.51	0.00	0.00	0.00	
9500.00	90.00	267.48	6955.00	1719.37	-1862.45	-1251.41	0.00	0.00	0.00	
9600.00	90.00	267.48	6955.00	1816.57	-1866.84	-1351.31	0.00	0.00	0.00	
9700.00	90.00	267.48	6955.00	1913.76	-1871.23	-1451.22	0.00	0.00	0.00	
9800.00	90.00	267.48	6955.00	2010.95	-1875.62	-1551.12	0.00	0.00	0.00	
9900.00	90.00	267.48	6955.00	2108.15	-1880.01	-1651.02	0.00	0.00	0.00	
10000.00	90.00	267.48	6955.00	2205.34	-1884.40	-1750.93	0.00	0.00	0.00	
10100.00	90.00	267.48	6955.00	2302.53	-1888.79	-1850.83	0.00	0.00	0.00	
10200.00	90.00	267.48	6955.00	2399.73	-1893.18	-1950.73	0.00	0.00	0.00	
10300.00	90.00	267.48	6955.00	2496.92	-1897.57	-2050.64	0.00	0.00	0.00	
10400.00	90.00	267.48	6955.00	2594.11	-1901.96	-2150.54	0.00	0.00	0.00	
10500.00	90.00	267.48	6955.00	2691.31	-1906.35	-2250.44	0.00	0.00	0.00	
10600.00	90.00	267.48	6955.00	2788.50	-1910.74	-2350.35	0.00	0.00	0.00	
10700.00	90.00	267.48	6955.00	2885.70	-1915.13	-2450.25	0.00	0.00	0.00	
10800.00	90.00	267.48	6955.00	2982.89	-1919.52	-2550.16	0.00	0.00	0.00	

5D Plan Report

Interpolated Points: (Relative to Slot centre)(TVD relative to Drill Floor)										Comment
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N. Offset (US ft)	E. Offset (US ft)	B. Rate (°/100US ft)	T. Rate (°/100US ft)	DLS (°/100US ft)	
10900.00	90.00	267.48	6955.00	3080.08	-1923.91	-2650.06	0.00	0.00	0.00	
11000.00	90.00	267.48	6955.00	3177.28	-1928.30	-2749.96	0.00	0.00	0.00	
11100.00	90.00	267.48	6955.00	3274.47	-1932.69	-2849.87	0.00	0.00	0.00	
11200.00	90.00	267.48	6955.00	3371.66	-1937.09	-2949.77	0.00	0.00	0.00	
11300.00	90.00	267.48	6955.00	3468.86	-1941.48	-3049.67	0.00	0.00	0.00	
11400.00	90.00	267.48	6955.00	3566.05	-1945.87	-3149.58	0.00	0.00	0.00	
11500.00	90.00	267.48	6955.00	3663.25	-1950.26	-3249.48	0.00	0.00	0.00	
11600.00	90.00	267.48	6955.00	3760.44	-1954.65	-3349.38	0.00	0.00	0.00	
11700.00	90.00	267.48	6955.00	3857.63	-1959.04	-3449.29	0.00	0.00	0.00	
11800.00	90.00	267.48	6955.00	3954.83	-1963.43	-3549.19	0.00	0.00	0.00	
11900.00	90.00	267.48	6955.00	4052.02	-1967.82	-3649.09	0.00	0.00	0.00	
12000.00	90.00	267.48	6955.00	4149.21	-1972.21	-3749.00	0.00	0.00	0.00	
12100.00	90.00	267.48	6955.00	4246.41	-1976.60	-3848.90	0.00	0.00	0.00	
12200.00	90.00	267.48	6955.00	4343.60	-1980.99	-3948.81	0.00	0.00	0.00	
12300.00	90.00	267.48	6955.00	4440.79	-1985.38	-4048.71	0.00	0.00	0.00	
12400.00	90.00	267.48	6955.00	4537.99	-1989.77	-4148.61	0.00	0.00	0.00	
12500.00	90.00	267.48	6955.00	4635.18	-1994.16	-4248.52	0.00	0.00	0.00	
12600.00	90.00	267.48	6955.00	4732.38	-1998.55	-4348.42	0.00	0.00	0.00	
12700.00	90.00	267.48	6955.00	4829.57	-2002.94	-4448.32	0.00	0.00	0.00	
12800.00	90.00	267.48	6955.00	4926.76	-2007.33	-4548.23	0.00	0.00	0.00	
12900.00	90.00	267.48	6955.00	5023.96	-2011.72	-4648.13	0.00	0.00	0.00	
13000.00	90.00	267.48	6955.00	5121.15	-2016.11	-4748.03	0.00	0.00	0.00	
13100.00	90.00	267.48	6955.00	5218.34	-2020.50	-4847.94	0.00	0.00	0.00	
13200.00	90.00	267.48	6955.00	5315.54	-2024.89	-4947.84	0.00	0.00	0.00	
13300.00	90.00	267.48	6955.00	5412.73	-2029.28	-5047.74	0.00	0.00	0.00	
13400.00	90.00	267.48	6955.00	5509.92	-2033.67	-5147.65	0.00	0.00	0.00	
13500.00	90.00	267.48	6955.00	5607.12	-2038.07	-5247.55	0.00	0.00	0.00	
13600.00	90.00	267.48	6955.00	5704.31	-2042.46	-5347.46	0.00	0.00	0.00	
13700.00	90.00	267.48	6955.00	5801.51	-2046.85	-5447.36	0.00	0.00	0.00	
13800.00	90.00	267.48	6955.00	5898.70	-2051.24	-5547.26	0.00	0.00	0.00	
13900.00	90.00	267.48	6955.00	5995.89	-2055.63	-5647.17	0.00	0.00	0.00	
14000.00	90.00	267.48	6955.00	6093.09	-2060.02	-5747.07	0.00	0.00	0.00	
14100.00	90.00	267.48	6955.00	6190.28	-2064.41	-5846.97	0.00	0.00	0.00	
14200.00	90.00	267.48	6955.00	6287.47	-2068.80	-5946.88	0.00	0.00	0.00	
14300.00	90.00	267.48	6955.00	6384.67	-2073.19	-6046.78	0.00	0.00	0.00	
14400.00	90.00	267.48	6955.00	6481.86	-2077.58	-6146.68	0.00	0.00	0.00	
14500.00	90.00	267.48	6955.00	6579.06	-2081.97	-6246.59	0.00	0.00	0.00	
14600.00	90.00	267.48	6955.00	6676.25	-2086.36	-6346.49	0.00	0.00	0.00	
14700.00	90.00	267.48	6955.00	6773.44	-2090.75	-6446.39	0.00	0.00	0.00	
14800.00	90.00	267.48	6955.00	6870.64	-2095.14	-6546.30	0.00	0.00	0.00	
14900.00	90.00	267.48	6955.00	6967.83	-2099.53	-6646.20	0.00	0.00	0.00	
15000.00	90.00	267.48	6955.00	7065.02	-2103.92	-6746.11	0.00	0.00	0.00	
15100.00	90.00	267.48	6955.00	7162.22	-2108.31	-6846.01	0.00	0.00	0.00	
15200.00	90.00	267.48	6955.00	7259.41	-2112.70	-6945.91	0.00	0.00	0.00	
15300.00	90.00	267.48	6955.00	7356.60	-2117.09	-7045.82	0.00	0.00	0.00	
15400.00	90.00	267.48	6955.00	7453.80	-2121.48	-7145.72	0.00	0.00	0.00	
15500.00	90.00	267.48	6955.00	7550.99	-2125.87	-7245.62	0.00	0.00	0.00	
15600.00	90.00	267.48	6955.00	7648.19	-2130.26	-7345.53	0.00	0.00	0.00	
15628.56	90.00	267.48	6955.00	7675.95	-2131.52	-7374.06	0.00	0.00	0.00	PBHL 34N-30C-M



Synergy Resources

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

5 December 2016

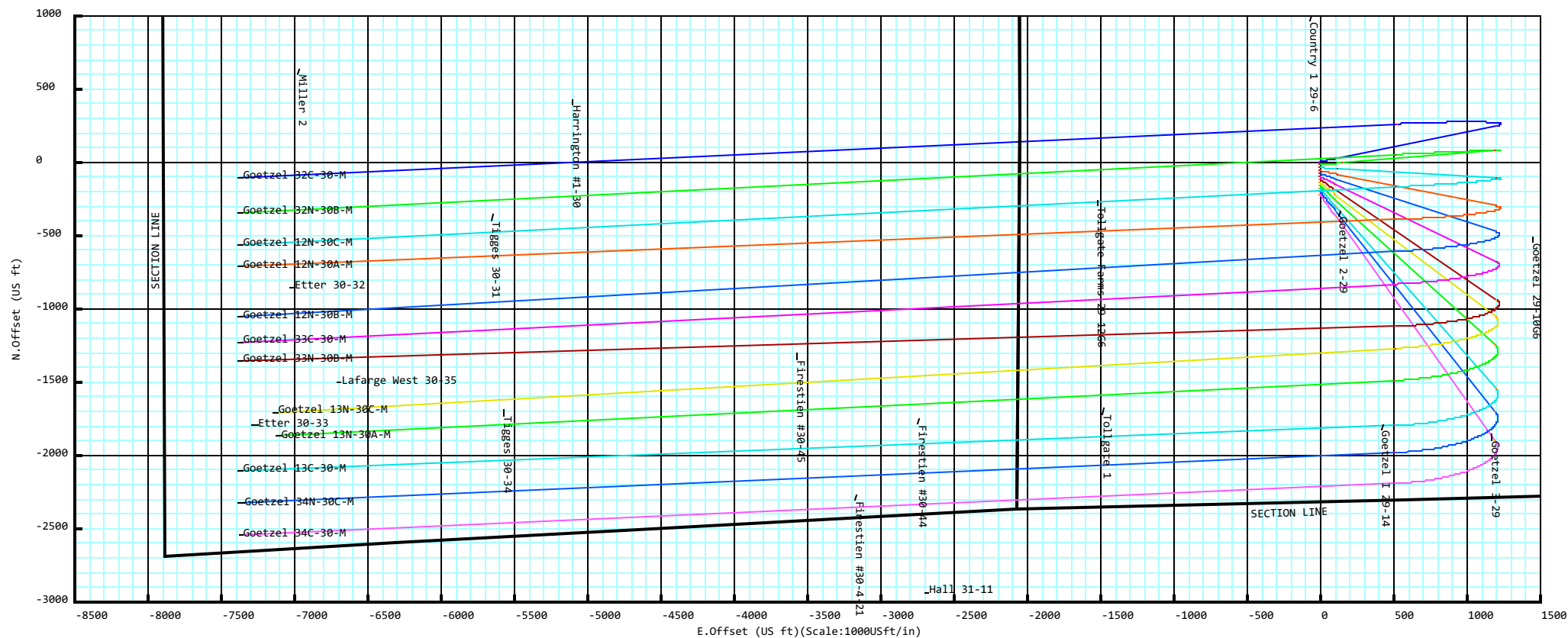




Goetzel Pad
Weld County, CO
Precision 562

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	



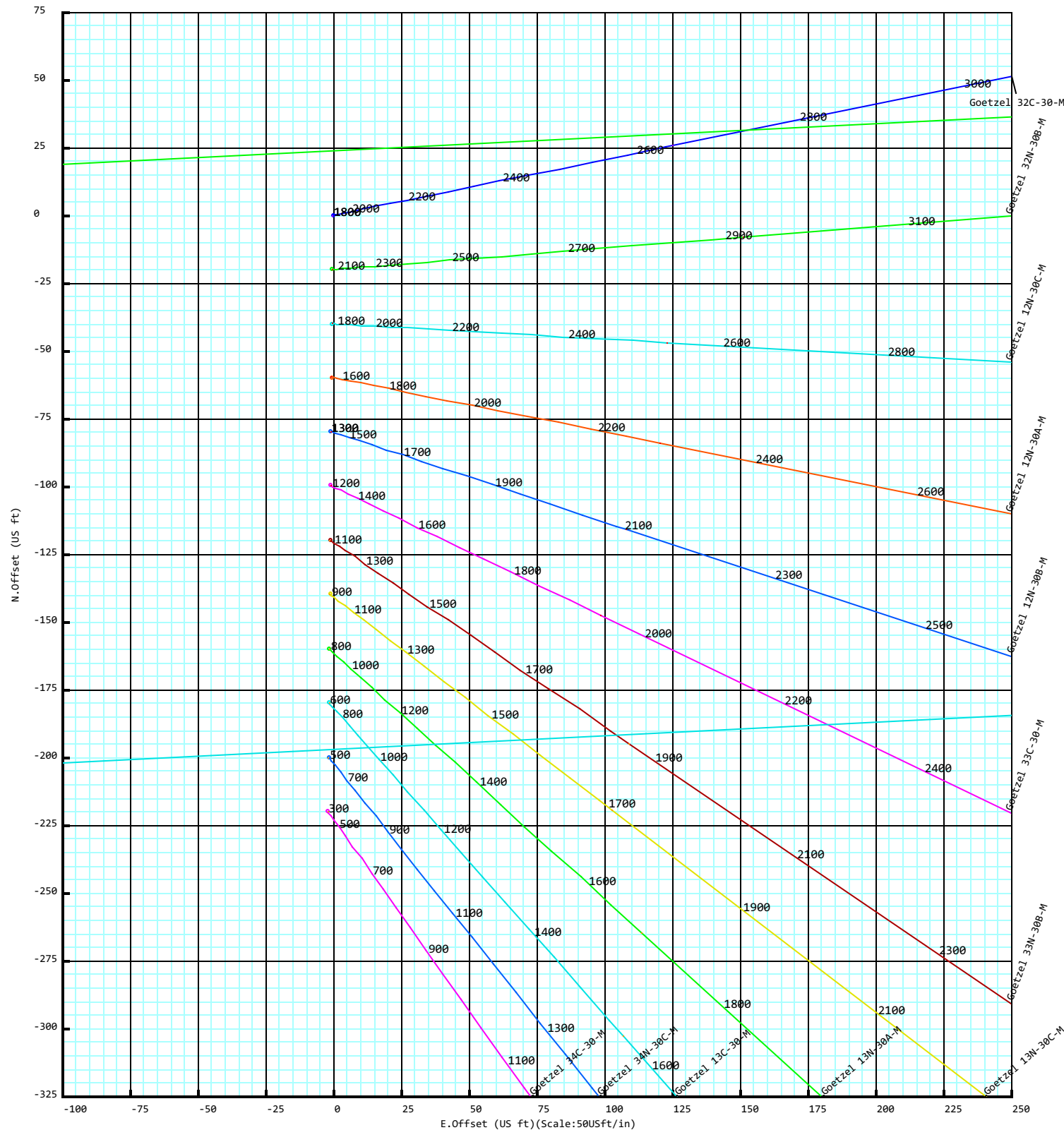


Goetzl Pad Weld County, CO Precision 562

- 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 34N-30C-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 34N-30C-M	Position (Relative to Site Centre)			
	+N/-S: -200.00 US ft	Northing: 1410283.04 US ft		Latitude: 40.457543000
	+E/-W: -1.67 US ft	Easting: 3193637.73 US ft		Longitude: -104.804140000
	Slot TVD Reference: Ground Elevation			
	Elevation above MSL: 4732.00 US ft			
	Comment:			
Well: Goetzel 34N-30C-M	Type:Main well		UWI:	Plan:Working Plan
	File Number:	Comment:		
	Closure Distance:7675.95US ft		Closure Azimuth:253.88°	
	Vertical Section: Position of Origin (Relative to Slot centre)			
	+N/-S: 0.00 US ft		+E/-W: 0.00 US ft	Az: 253.88°
	Magnetic Parameters:			
	Model: bggm2016	Field Strength: 52524.5nT	Declination: 8.46°	Dip: 66.93°
				Date: 18/Nov/2016

Drill floor: Plan: Working Plan

Rig Height (Drill Floor): 25.00 US ft	Elevation above MSL: 4757.00 US ft	Inclination: 0.00°	Azimuth: 0.00°
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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 34N-30C-M (p)	0.00	15628.56	100.00	2

Secondary Well Names:

Goetzel 2-29 (s)
 Lafarge West 30-35 (s)
 Tigges 30-34 (s)
 Firestien #30-44 (s)
 Tollgate 1 (s)
 Etter 30-33 (s)
 Goetzel I 29-14 (s)
 Firestien #30-4-21 (s)
 Goetzel 3-29 (s)
 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)
 Goetzel 13N-30C-M (p)

Secondary Well Names:

Goetzel 13N-30A-M (p)
 Goetzel 13C-30-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 3-29 (s)	6918.75	6522.55	6553.55	31.44	-184.36	0.15	SF(Hi); CC (Med)
Firestien #30-4-21 (s)	11420.90	6925.00	6955.00	127.13	-196.26	0.39	SF(Hi)
Goetzel 2-29 (s)	1519.14	1466.63	1494.63	21.27	-26.31	0.45	SF(Hi); CC (Med)
Goetzel 34C-30-M (p)	15628.56	15759.71	6955.00	242.98	-175.99	0.58	SF(Hi)
Goetzel 13C-30-M (p)	15620.08	15700.76	6955.00	250.31	-170.90	0.59	SF(Hi)
Goetzel I 29-14 (s)	7818.75	6924.00	6955.00	194.83	-44.22	0.82	SF(Hi)
Goetzel 13N-30A-M (p)	15356.25	15136.85	6955.00	474.21	51.60	1.12	SF(Med)
Firestien #30-44 (s)	10972.46	6922.00	6955.00	368.54	57.42	1.18	SF(Med)
Etter 30-33 (s)	15518.75	6930.00	6955.00	534.18	97.66	1.22	SF(Med)
Goetzel 13N-30C-M (p)	15357.23	15286.68	6955.00	610.26	160.84	1.36	SF(Med)
Tollgate 1 (s)	9716.21	6916.00	6955.00	385.73	108.06	1.39	SF(Med)
Tigges 30-34 (s)	13806.84	6922.00	6955.00	556.17	167.38	1.43	SF(Med)
Lafarge West 30-35 (s)	14941.80	6930.00	6955.00	793.50	373.09	1.89	SF(Lo)
Goetzel 33N-30B-M (p)	15601.79	15456.31	6955.00	975.16	512.40	2.11	SF(Lo)
Goetzel 33C-30-M (p)	15596.09	15600.60	6955.00	1109.54	650.09	2.41	SF(Lo)
Goetzel 12N-30B-M (p)	15597.27	15440.87	6955.00	1269.85	807.17	2.74	
Goetzel 12N-30A-M (p)	15615.40	15322.07	6955.00	1623.37	1161.50	3.51	
Goetzel 12N-30C-M (p)	15619.64	15501.26	6955.00	1764.77	1301.41	3.81	
Goetzel 32N-30B-M (p)	15628.56	15473.86	6955.00	1986.55	1522.38	4.28	
Goetzel 32C-30-M (p)	15628.56	15644.54	6955.00	2231.47	1769.14	4.83	

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 34C-30-M (p)	50.00	50.00	50.00	20.04	19.19	23.75	CC (Med)
Goetzel 13C-30-M (p)	0.00	0.00	0.00	20.04	19.31	27.33	CC (Med)
Goetzel 2-29 (s)	1517.38	1464.98	1492.98	21.26	-26.26	0.45	SF(Hi); CC (Med)
Goetzel 3-29 (s)	6921.87	6525.27	6556.27	31.40	-183.70	0.15	SF(Hi); CC (Med)
Goetzel 13N-30A-M (p)	0.00	0.00	0.00	40.07	39.34	54.65	CC (Lo)
Goetzel 13N-30C-M (p)	0.00	0.00	0.00	60.11	59.38	81.97	CC (Lo)
Goetzel 33N-30B-M (p)	50.00	50.00	50.00	80.15	79.30	95.00	
Goetzel 33C-30-M (p)	0.00	0.00	0.00	100.19	99.45	136.62	
Goetzel 12N-30B-M (p)	0.00	0.00	0.00	120.22	119.49	163.94	
Firestien #30-4-21 (s)	11420.31	6925.00	6955.00	127.13	-196.25	0.39	SF(Hi)
Goetzel 12N-30A-M (p)	50.00	50.00	50.00	140.26	139.42	166.26	
Goetzel 12N-30C-M (p)	50.00	50.00	50.00	159.93	159.09	189.58	
Goetzel 32N-30B-M (p)	0.00	0.00	0.00	179.97	179.24	245.42	
Goetzel I 29-14 (s)	7808.20	6924.00	6955.00	194.54	-43.43	0.82	SF(Hi)
Goetzel 32C-30-M (p)	0.00	0.00	0.00	200.01	199.28	272.75	
Firestien #30-44 (s)	10966.41	6922.00	6955.00	368.49	57.50	1.18	SF(Med)
Tollgate 1 (s)	9707.62	6916.00	6955.00	385.63	108.17	1.39	SF(Med)
Etter 30-33 (s)	15511.13	6930.00	6955.00	534.13	97.74	1.22	SF(Med)
Tigges 30-34 (s)	13796.87	6922.00	6955.00	556.08	167.48	1.43	SF(Med)
Lafarge West 30-35 (s)	14923.05	6930.00	6955.00	793.28	373.22	1.89	SF(Lo)

Primary Well: Goetzel 34N-30C-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	180.35	20.04	19.31	27.33	Goetzel 34C-30-M (p)	CC (Med)
100.00	0.00	0.00	100.00	0.11	0.11	180.35	20.04	19.08	21.01	Goetzel 34C-30-M (p)	CC (Med)
200.00	0.00	0.00	200.00	0.34	0.34	180.35	20.04	18.64	14.28	Goetzel 34C-30-M (p)	CC (Med)
300.00	0.00	0.00	300.00	0.56	0.56	180.35	20.04	18.19	10.81	Goetzel 34C-30-M (p)	CC (Med)
400.00	0.00	0.00	400.00	0.79	0.79	0.35	20.04	17.74	8.70	Goetzel 13C-30-M (p)	CC (Med)
500.00	1.00	141.02	500.00	1.00	1.00	218.55	20.38	17.64	7.44	Goetzel 13C-30-M (p)	CC (Med)
600.00	3.00	141.02	599.93	1.19	1.19	213.21	23.21	20.06	7.38	Goetzel 13C-30-M (p)	CC (Med)
700.00	5.00	141.02	699.68	1.40	1.38	207.44	27.77	24.22	7.82	Goetzel 13C-30-M (p)	CC (Med)
800.00	7.00	141.02	799.13	1.64	1.59	353.01	176.15	153.11	7.65	Goetzel 2-29 (s)	
800.00	7.00	141.02	799.13	1.64	1.59	203.63	32.59	28.63	8.23	Goetzel 13C-30-M (p)	CC (Med)
900.00	9.00	141.02	898.15	1.92	1.81	352.38	162.35	136.06	6.18	Goetzel 2-29 (s)	
900.00	9.00	141.02	898.15	1.92	1.81	201.08	37.55	33.16	8.57	Goetzel 13C-30-M (p)	CC (Lo)

5D Anti-Collision Report

Primary Well: Goetzel 34N-30C-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	11.00	141.02	996.63	2.26	2.03	351.42	145.15	115.62	4.92	Goetzel 2- 29 (s)	
1000.00	11.00	141.02	996.63	2.26	2.03	199.36	42.59	37.76	8.83	Goetzel 13C-30-M (p)	CC (Lo)
1100.00	13.00	141.02	1094.44	2.64	2.26	349.92	124.62	91.85	3.80	Goetzel 2- 29 (s)	
1100.00	13.00	141.02	1094.44	2.64	2.26	198.23	47.68	42.38	9.01	Goetzel 13C-30-M (p)	CC (Lo)
1200.00	15.00	141.02	1191.46	3.10	2.51	347.41	100.87	64.88	2.80	Goetzel 2- 29 (s)	
1200.00	15.00	141.02	1191.46	3.10	2.51	197.51	52.79	46.99	9.10	Goetzel 13C-30-M (p)	CC (Lo)
1300.00	17.00	141.02	1287.58	3.62	2.76	342.62	74.15	35.03	1.90	Goetzel 2- 29 (s)	SF(Lo)
1300.00	17.00	141.02	1287.58	3.62	2.76	197.11	57.90	51.57	9.14	Goetzel 13C-30-M (p)	CC (Lo)
1400.00	19.00	141.02	1382.68	4.20	3.02	330.74	45.42	2.89	1.07	Goetzel 2- 29 (s)	SF(Med); CC (Lo)
1500.00	20.44	141.02	1476.70	4.86	3.30	284.96	22.11	-24.66	0.47	Goetzel 2- 29 (s)	SF(Hi); CC (Med)
1600.00	20.44	141.02	1570.40	5.54	3.60	218.18	35.85	-13.41	0.73	Goetzel 2- 29 (s)	SF(Hi); CC (Lo)
1700.00	20.44	141.02	1664.10	6.24	3.90	199.58	67.24	15.28	1.29	Goetzel 2- 29 (s)	SF(Med)
1800.00	20.44	141.02	1757.80	6.95	4.21	192.95	100.99	46.10	1.84	Goetzel 2- 29 (s)	SF(Lo)
1800.00	20.44	141.02	1757.80	6.95	4.21	199.27	75.08	65.41	7.76	Goetzel 13C-30-M (p)	
1900.00	20.44	141.02	1851.50	7.66	4.53	189.64	135.33	77.29	2.33	Goetzel 2- 29 (s)	SF(Lo)
1900.00	20.44	141.02	1851.50	7.66	4.53	200.00	77.27	66.83	7.40	Goetzel 13C-30-M (p)	
2000.00	20.44	141.02	1945.20	8.38	4.84	187.67	169.92	108.77	2.78	Goetzel 2- 29 (s)	
2000.00	20.44	141.02	1945.20	8.38	4.84	200.69	79.48	68.25	7.08	Goetzel 13C-30-M (p)	
2100.00	20.44	141.02	2038.90	9.10	5.16	186.36	204.62	140.40	3.19	Goetzel 2- 29 (s)	
2100.00	20.44	141.02	2038.90	9.10	5.16	27.24	81.04	67.83	6.13	Goetzel 34C-30-M (p)	
2200.00	20.44	141.02	2132.61	9.82	5.48	185.44	239.39	172.09	3.56	Goetzel 2- 29 (s)	
2200.00	20.44	141.02	2132.61	9.82	5.48	28.20	82.57	68.36	5.81	Goetzel 34C-30-M (p)	
2300.00	20.44	141.02	2226.31	10.55	5.80	184.75	274.19	203.83	3.90	Goetzel 2- 29 (s)	
2300.00	20.44	141.02	2226.31	10.55	5.80	29.13	84.12	68.91	5.53	Goetzel 34C-30-M (p)	
2400.00	20.44	141.02	2320.01	11.27	6.12	184.21	309.03	235.58	4.21	Goetzel 2- 29 (s)	
2400.00	20.44	141.02	2320.01	11.27	6.12	30.02	85.69	69.44	5.27	Goetzel 34C-30-M (p)	
2500.00	20.44	141.02	2413.71	12.00	6.45	183.78	343.89	267.27	4.49	Goetzel 2- 29 (s)	
2500.00	20.44	141.02	2413.71	12.00	6.45	30.87	87.28	69.97	5.04	Goetzel 34C-30-M (p)	
2600.00	20.44	141.02	2507.41	12.73	6.77	183.43	378.75	298.97	4.75	Goetzel 2- 29 (s)	
2600.00	20.44	141.02	2507.41	12.73	6.77	31.70	88.89	70.47	4.83	Goetzel 34C-30-M (p)	

5D Anti-Collision Report

Primary Well: Goetzel 34N-30C-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Nearest Well	Risk
2700.00	20.44	141.02	2601.11	13.46	7.10	32.50	90.52	70.98	4.63	Goetzel 34C-30-M (p)	
2800.00	20.44	141.02	2694.81	14.19	7.43	33.27	92.17	71.49	4.46	Goetzel 34C-30-M (p)	
2900.00	20.44	141.02	2788.51	14.93	7.76	34.01	93.83	72.01	4.30	Goetzel 34C-30-M (p)	
3000.00	20.44	141.02	2882.22	15.66	8.08	34.73	95.50	72.54	4.16	Goetzel 34C-30-M (p)	
3100.00	20.44	141.02	2975.92	16.39	8.41	35.42	97.20	73.07	4.03	Goetzel 34C-30-M (p)	
3200.00	20.44	141.02	3069.62	17.13	8.74	36.09	98.90	73.60	3.91	Goetzel 34C-30-M (p)	
3300.00	20.44	141.02	3163.32	17.86	9.07	36.73	100.62	74.14	3.80	Goetzel 34C-30-M (p)	
3400.00	20.44	141.02	3257.02	18.59	9.40	37.36	102.35	74.66	3.70	Goetzel 34C-30-M (p)	
3500.00	20.44	141.02	3350.72	19.33	9.73	37.96	104.09	75.18	3.60	Goetzel 34C-30-M (p)	
3600.00	20.44	141.02	3444.42	20.06	10.06	38.54	105.84	75.71	3.51	Goetzel 34C-30-M (p)	
3700.00	20.44	141.02	3538.13	20.80	10.39	39.11	107.61	76.21	3.43	Goetzel 34C-30-M (p)	
3800.00	20.44	141.02	3631.83	21.53	10.72	39.65	109.38	76.72	3.35	Goetzel 34C-30-M (p)	
3900.00	20.44	141.02	3725.53	22.27	11.06	40.18	111.16	77.23	3.28	Goetzel 34C-30-M (p)	
4000.00	20.44	141.02	3819.23	23.01	11.39	40.69	112.96	77.75	3.21	Goetzel 34C-30-M (p)	
4100.00	20.44	141.02	3912.93	23.74	11.72	41.19	114.76	78.27	3.14	Goetzel 34C-30-M (p)	
4200.00	20.44	141.02	4006.63	24.48	12.05	41.67	116.57	78.79	3.09	Goetzel 34C-30-M (p)	
4300.00	20.44	141.02	4100.33	25.21	12.38	42.13	118.39	79.32	3.03	Goetzel 34C-30-M (p)	
4400.00	20.44	141.02	4194.03	25.95	12.71	42.58	120.21	79.85	2.98	Goetzel 34C-30-M (p)	
4500.00	20.44	141.02	4287.74	26.69	13.05	43.02	122.04	80.39	2.93	Goetzel 34C-30-M (p)	
4600.00	20.44	141.02	4381.44	27.42	13.38	43.44	123.88	80.93	2.88	Goetzel 34C-30-M (p)	
4700.00	20.44	141.02	4475.14	28.16	13.71	43.86	125.73	81.47	2.84	Goetzel 34C-30-M (p)	
4800.00	20.44	141.02	4568.84	28.90	14.04	44.26	127.58	82.02	2.80	Goetzel 34C-30-M (p)	
4900.00	20.44	141.02	4662.54	29.63	14.38	44.65	129.44	82.57	2.76	Goetzel 34C-30-M (p)	
5000.00	20.44	141.02	4756.24	30.37	14.71	45.02	131.30	83.12	2.73	Goetzel 34C-30-M (p)	
5100.00	20.44	141.02	4849.94	31.11	15.04	45.39	133.17	83.68	2.69	Goetzel 34C-30-M (p)	
5200.00	20.44	141.02	4943.65	31.85	15.38	45.75	135.05	84.24	2.66		

5D Anti-Collision Report

Primary Well: Goetzel 34N-30C-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	20.44	141.02	5037.35	32.58	15.71	46.09	136.93	84.80	2.63	Goetzel 34C-30-M (p)	
5400.00	20.44	141.02	5131.05	33.32	16.04	46.43	138.81	85.37	2.60	Goetzel 34C-30-M (p)	
5500.00	20.44	141.02	5224.75	34.06	16.38	46.76	140.70	85.93	2.57	Goetzel 34C-30-M (p)	
5600.00	20.44	141.02	5318.45	34.79	16.71	17.28	424.91	248.48	2.41	Goetzel 3- 29 (s)	SF(Lo)
5600.00	20.44	141.02	5318.45	34.79	16.71	47.08	142.59	86.48	2.54	Goetzel 34C-30-M (p)	
5700.00	20.44	141.02	5412.15	35.53	17.04	18.78	391.50	211.40	2.17	Goetzel 3- 29 (s)	SF(Lo)
5700.00	20.44	141.02	5412.15	35.53	17.04	47.39	144.49	87.03	2.51	Goetzel 34C-30-M (p)	
5800.00	20.44	141.02	5505.85	36.27	17.38	20.57	358.38	174.56	1.95	Goetzel 3- 29 (s)	SF(Lo)
5800.00	20.44	141.02	5505.85	36.27	17.38	47.70	146.39	87.59	2.49	Goetzel 34C-30-M (p)	SF(Lo)
5900.00	20.44	141.02	5599.55	37.01	17.71	22.71	325.63	138.10	1.74	Goetzel 3- 29 (s)	SF(Lo)
5900.00	20.44	141.02	5599.55	37.01	17.71	47.99	148.30	88.15	2.47	Goetzel 34C-30-M (p)	SF(Lo)
6000.00	20.44	141.02	5693.26	37.74	18.04	25.31	293.39	102.35	1.54	Goetzel 3- 29 (s)	SF(Lo)
6000.00	20.44	141.02	5693.26	37.74	18.04	48.28	150.21	88.71	2.44	Goetzel 34C-30-M (p)	SF(Lo)
6100.00	20.44	141.02	5786.96	38.48	18.38	28.54	261.84	65.95	1.34	Goetzel 3- 29 (s)	SF(Med)
6100.00	20.44	141.02	5786.96	38.48	18.38	48.56	152.13	89.28	2.42	Goetzel 34C-30-M (p)	SF(Lo)
6200.00	20.44	141.02	5880.66	39.22	18.71	32.60	231.26	30.67	1.15	Goetzel 3- 29 (s)	SF(Med)
6200.00	20.44	141.02	5880.66	39.22	18.71	48.84	154.04	89.84	2.40	Goetzel 34C-30-M (p)	SF(Lo)
6300.00	20.44	141.02	5974.36	39.96	19.04	37.82	202.10	-3.61	0.98	Goetzel 3- 29 (s)	SF(Hi)
6300.00	20.44	141.02	5974.36	39.96	19.04	49.10	155.96	90.39	2.38	Goetzel 34C-30-M (p)	SF(Lo)
6400.00	20.44	141.02	6068.06	40.70	19.38	44.63	175.06	-36.39	0.83	Goetzel 3- 29 (s)	SF(Hi)
6400.00	20.44	141.02	6068.06	40.70	19.38	49.36	157.89	90.94	2.36	Goetzel 34C-30-M (p)	SF(Lo)
6500.00	18.98	148.26	6161.92	41.36	19.71	45.84	151.02	-67.25	0.69	Goetzel 3- 29 (s)	SF(Hi)
6600.00	16.81	173.54	6257.22	41.35	19.92	27.25	126.67	-97.24	0.57	Goetzel 3- 29 (s)	SF(Hi)
6700.00	18.14	200.05	6352.76	40.70	19.98	3.62	98.29	-129.41	0.43	Goetzel 3- 29 (s)	SF(Hi)
6800.00	22.36	219.88	6446.67	39.45	19.86	338.16	64.61	-165.21	0.28	Goetzel 3- 29 (s)	SF(Hi); CC (Lo)
6900.00	28.19	232.80	6537.12	37.71	19.55	288.45	33.33	-185.37	0.15	Goetzel 3- 29 (s)	SF(Hi); CC (Lo)
7000.00	34.84	241.36	6622.37	35.61	18.99	218.21	53.55	-179.02	0.23	Goetzel 3- 29 (s)	SF(Hi); CC (Lo)
7100.00	41.91	247.41	6700.74	33.38	18.11	194.53	111.71	-128.55	0.46	Goetzel 3- 29 (s)	SF(Hi)
7200.00	49.23	251.96	6770.71	31.30	16.80	184.66	182.56	-59.91	0.75	Goetzel 3- 29 (s)	SF(Hi)

5D Anti-Collision Report

Primary Well: Goetzel 34N-30C-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
7300.00	56.68	255.60	6830.93	29.68	15.02	178.29	262.29	17.83	1.07	Goetzel 3-29 (s)	SF(Med)
7300.00	56.68	255.60	6830.93	29.68	15.02	255.71	204.63	163.94	5.03	Goetzel 34C-30-M (p)	
7400.00	64.23	258.66	6880.21	28.72	12.91	172.29	349.14	103.34	1.42	Goetzel 3-29 (s)	SF(Med)
7400.00	64.23	258.66	6880.21	28.72	12.91	123.00	212.08	153.79	3.64	Goetzel 13C-30-M (p)	
7500.00	71.83	261.35	6917.61	28.43	11.01	67.35	354.84	119.49	1.51	Goetzel I 29-14 (s)	SF(Lo)
7500.00	71.83	261.35	6917.61	28.43	11.01	122.36	214.06	157.00	3.75	Goetzel 13C-30-M (p)	
7600.00	79.47	263.82	6942.38	28.73	10.20	79.93	281.72	47.96	1.21	Goetzel I 29-14 (s)	SF(Med)
7600.00	79.47	263.82	6942.38	28.73	10.20	121.83	215.40	159.01	3.82	Goetzel 13C-30-M (p)	
7700.00	87.12	266.16	6954.05	29.49	11.17	88.45	222.34	-10.45	0.96	Goetzel I 29-14 (s)	SF(Hi)
7700.00	87.12	266.16	6954.05	29.49	11.17	121.36	216.07	159.36	3.81	Goetzel 13C-30-M (p)	
7800.00	90.00	267.03	6955.00	30.45	12.29	90.00	194.71	-42.18	0.82	Goetzel I 29-14 (s)	SF(Hi)
7900.00	90.00	267.03	6955.00	31.56	12.83	90.00	215.12	-29.42	0.88	Goetzel I 29-14 (s)	SF(Hi)
8000.00	90.00	267.03	6955.00	32.85	13.41	90.00	273.21	25.44	1.10	Goetzel I 29-14 (s)	SF(Med)
8000.00	90.00	267.03	6955.00	32.85	13.41	121.03	217.27	154.49	3.46	Goetzel 13C-30-M (p)	
8100.00	90.00	267.03	6955.00	34.33	14.02	90.00	350.72	102.62	1.41	Goetzel I 29-14 (s)	SF(Med)
8100.00	90.00	267.03	6955.00	34.33	14.02	120.96	217.69	152.27	3.33	Goetzel 13C-30-M (p)	
8200.00	90.00	267.03	6955.00	35.95	14.66	90.00	437.46	189.21	1.76	Goetzel I 29-14 (s)	SF(Lo)
8200.00	90.00	267.03	6955.00	35.95	14.66	120.90	218.12	149.77	3.19	Goetzel 13C-30-M (p)	
8300.00	90.00	267.03	6955.00	37.71	15.31	90.00	528.90	281.57	2.14	Goetzel I 29-14 (s)	SF(Lo)
8300.00	90.00	267.03	6955.00	37.71	15.31	120.83	218.54	146.98	3.05	Goetzel 13C-30-M (p)	
8400.00	90.00	267.03	6955.00	39.59	15.98	90.00	622.98	375.47	2.52	Goetzel I 29-14 (s)	
8400.00	90.00	267.03	6955.00	39.59	15.98	120.76	218.97	144.14	2.93	Goetzel 13C-30-M (p)	
8500.00	90.00	267.03	6955.00	41.56	16.65	120.70	219.39	140.98	2.80	Goetzel 13C-30-M (p)	
8600.00	90.00	267.03	6955.00	43.63	17.34	120.63	219.82	137.84	2.68	Goetzel 13C-30-M (p)	
8700.00	90.00	267.03	6955.00	45.78	18.02	120.57	220.24	134.47	2.57	Goetzel 13C-30-M (p)	
8800.00	90.00	267.03	6955.00	47.99	18.72	120.50	220.67	130.91	2.46	Goetzel 13C-30-M (p)	SF(Lo)
8900.00	90.00	267.03	6955.00	50.26	19.41	120.44	221.10	127.34	2.36	Goetzel 13C-30-M (p)	SF(Lo)
9000.00	90.00	267.03	6955.00	52.58	20.11	120.37	221.52	123.69	2.26	Goetzel 13C-30-M (p)	SF(Lo)
9100.00	90.00	267.03	6955.00	54.95	20.81	120.31	221.95	119.96	2.18	Goetzel 13C-30-M (p)	SF(Lo)

5D Anti-Collision Report

Primary Well: Goetzel 34N-30C-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
9200.00	90.00	267.03	6955.00	57.36	21.51	120.24	222.38	116.16	2.09	Goetzel 13C-30-M (p)	SF(Lo)
9300.00	90.00	267.03	6955.00	59.80	22.21	120.18	222.80	112.29	2.02	Goetzel 13C-30-M (p)	SF(Lo)
9400.00	90.00	267.03	6955.00	62.27	22.91	90.00	493.31	228.95	1.87	Tollgate 1 (s)	SF(Lo)
9400.00	90.00	267.03	6955.00	62.27	22.91	120.11	223.23	108.37	1.94	Goetzel 13C-30-M (p)	SF(Lo)
9500.00	90.00	267.03	6955.00	64.77	23.62	90.00	437.98	168.25	1.62	Tollgate 1 (s)	SF(Lo)
9500.00	90.00	267.03	6955.00	64.77	23.62	120.05	223.66	104.39	1.88	Goetzel 13C-30-M (p)	SF(Lo)
9600.00	90.00	267.03	6955.00	67.29	24.32	90.00	400.37	125.77	1.46	Tollgate 1 (s)	SF(Med)
9600.00	90.00	267.03	6955.00	67.29	24.32	119.99	224.09	100.36	1.81	Goetzel 13C-30-M (p)	SF(Lo)
9700.00	90.00	267.03	6955.00	69.83	25.03	90.00	385.71	108.55	1.39	Tollgate 1 (s)	SF(Med)
9700.00	90.00	267.03	6955.00	69.83	25.03	119.92	224.51	96.30	1.75	Goetzel 13C-30-M (p)	SF(Lo)
9800.00	90.00	267.03	6955.00	72.40	25.73	90.00	396.54	119.12	1.43	Tollgate 1 (s)	SF(Med)
9800.00	90.00	267.03	6955.00	72.40	25.73	119.86	224.94	92.20	1.69	Goetzel 13C-30-M (p)	SF(Lo)
9900.00	90.00	267.03	6955.00	74.98	26.44	90.00	430.95	157.11	1.57	Tollgate 1 (s)	SF(Lo)
9900.00	90.00	267.03	6955.00	74.98	26.44	119.80	225.37	88.06	1.64	Goetzel 13C-30-M (p)	SF(Lo)
10000.00	90.00	267.03	6955.00	77.57	27.15	119.74	225.80	83.91	1.59	Goetzel 13C-30-M (p)	SF(Lo)
10100.00	90.00	267.03	6955.00	80.18	27.86	119.67	226.23	79.72	1.54	Goetzel 13C-30-M (p)	SF(Lo)
10200.00	90.00	267.03	6955.00	82.80	28.57	119.61	226.66	75.52	1.50	Goetzel 13C-30-M (p)	SF(Med)
10300.00	90.00	267.03	6955.00	85.43	29.28	119.55	227.09	71.30	1.46	Goetzel 13C-30-M (p)	SF(Med)
10400.00	90.00	267.03	6955.00	88.08	29.99	119.49	227.52	67.07	1.42	Goetzel 13C-30-M (p)	SF(Med)
10500.00	90.00	267.03	6955.00	90.73	30.71	119.43	227.95	62.83	1.38	Goetzel 13C-30-M (p)	SF(Med)
10600.00	90.00	267.03	6955.00	93.39	31.42	119.37	228.38	58.59	1.35	Goetzel 13C-30-M (p)	SF(Med)
10700.00	90.00	267.03	6955.00	96.06	32.13	119.31	228.81	54.35	1.31	Goetzel 13C-30-M (p)	SF(Med)
10800.00	90.00	267.03	6955.00	98.74	32.85	119.25	229.24	50.12	1.28	Goetzel 13C-30-M (p)	SF(Med)
10900.00	90.00	267.03	6955.00	101.42	33.56	90.00	374.42	65.01	1.21	Firestien #30-44 (s)	SF(Med)
10900.00	90.00	267.03	6955.00	101.42	33.56	119.19	229.68	45.85	1.25	Goetzel 13C-30-M (p)	SF(Med)
11000.00	90.00	267.03	6955.00	104.11	34.28	90.00	370.02	59.40	1.19	Firestien #30-44 (s)	SF(Med)
11000.00	90.00	267.03	6955.00	104.11	34.28	119.13	230.11	41.52	1.22	Goetzel 13C-30-M (p)	SF(Med)
11100.00	90.00	267.03	6955.00	106.81	35.00	119.07	230.54	37.20	1.19		SF(Med)

5D Anti-Collision Report

Primary Well: Goetzel 34N-30C-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
11200.00	90.00	267.03	6955.00	109.51	35.71	270.00	254.32	-10.21	0.96	Goetzel 13C-30-M (p) Firestien #30-4-21 (s)	SF(Hi)
11200.00	90.00	267.03	6955.00	109.51	35.71	119.01	230.97	32.89	1.17	Goetzel 13C-30-M (p)	SF(Med)
11300.00	90.00	267.03	6955.00	112.21	36.43	270.00	175.00	-112.23	0.61	Firestien #30-4-21 (s)	SF(Hi)
11400.00	90.00	267.03	6955.00	114.92	37.15	270.00	128.74	-190.73	0.40	Firestien #30-4-21 (s)	SF(Hi)
11500.00	90.00	267.03	6955.00	117.64	37.87	270.00	150.07	-163.73	0.48	Firestien #30-4-21 (s)	SF(Hi)
11600.00	90.00	267.03	6955.00	120.36	38.59	270.00	220.15	-70.95	0.76	Firestien #30-4-21 (s)	SF(Hi)
11700.00	90.00	267.03	6955.00	123.08	39.31	118.71	233.14	10.77	1.05	Goetzel 13C-30-M (p)	SF(Med)
11800.00	90.00	267.03	6955.00	125.80	40.02	118.65	233.57	6.29	1.03	Goetzel 13C-30-M (p)	SF(Med)
11900.00	90.00	267.03	6955.00	128.53	40.74	118.60	234.00	1.81	1.01	Goetzel 13C-30-M (p)	SF(Med)
12000.00	90.00	267.03	6955.00	131.27	41.47	118.54	234.44	-2.79	0.99	Goetzel 13C-30-M (p)	SF(Hi)
12100.00	90.00	267.03	6955.00	134.00	42.19	118.48	234.87	-7.38	0.97	Goetzel 13C-30-M (p)	SF(Hi)
12200.00	90.00	267.03	6955.00	136.74	42.91	118.42	235.31	-11.97	0.95	Goetzel 13C-30-M (p)	SF(Hi)
12300.00	90.00	267.03	6955.00	139.48	43.63	118.37	235.74	-16.55	0.93	Goetzel 13C-30-M (p)	SF(Hi)
12400.00	90.00	267.03	6955.00	142.22	44.35	118.31	236.18	-21.14	0.92	Goetzel 13C-30-M (p)	SF(Hi)
12500.00	90.00	267.03	6955.00	144.96	45.07	118.25	236.61	-25.73	0.90	Goetzel 13C-30-M (p)	SF(Hi)
12600.00	90.00	267.03	6955.00	147.71	45.80	118.20	237.05	-30.31	0.89	Goetzel 13C-30-M (p)	SF(Hi)
12700.00	90.00	267.03	6955.00	150.46	46.52	118.14	237.48	-34.91	0.87	Goetzel 13C-30-M (p)	SF(Hi)
12800.00	90.00	267.03	6955.00	153.21	47.24	118.08	237.92	-39.50	0.86	Goetzel 13C-30-M (p)	SF(Hi)
12900.00	90.00	267.03	6955.00	155.96	47.96	118.03	238.36	-44.10	0.84	Goetzel 13C-30-M (p)	SF(Hi)
13000.00	90.00	267.03	6955.00	158.71	48.69	117.97	238.79	-48.70	0.83	Goetzel 13C-30-M (p)	SF(Hi)
13100.00	90.00	267.03	6955.00	161.47	49.41	117.92	239.23	-53.31	0.82	Goetzel 13C-30-M (p)	SF(Hi)
13200.00	90.00	267.03	6955.00	164.22	50.14	117.86	239.67	-57.92	0.81	Goetzel 13C-30-M (p)	SF(Hi)
13300.00	90.00	267.03	6955.00	166.98	50.86	117.81	240.10	-62.53	0.79	Goetzel 13C-30-M (p)	SF(Hi)
13400.00	90.00	267.03	6955.00	169.74	51.59	117.75	240.54	-67.15	0.78	Goetzel 13C-30-M (p)	SF(Hi)
13500.00	90.00	267.03	6955.00	172.50	52.31	117.70	240.98	-71.78	0.77		SF(Hi)

5D Anti-Collision Report

Primary Well: Goetzel 34N-30C-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Nearest Well	Risk
13600.00	90.00	267.03	6955.00	175.27	53.03	117.64	241.42	-76.41	0.76	Goetzel 13C-30-M (p)	SF(Hi)
13600.00	90.00	267.03	6955.00	175.27	53.03	244.18	241.10	-75.01	0.76	Goetzel 13C-30-M (p)	SF(Hi)
13700.00	90.00	267.03	6955.00	178.03	53.76	117.59	241.86	-81.04	0.75	Goetzel 34C-30-M (p)	SF(Hi)
13700.00	90.00	267.03	6955.00	178.03	53.76	244.19	241.20	-79.97	0.75	Goetzel 13C-30-M (p)	SF(Hi)
13800.00	90.00	267.03	6955.00	180.79	54.49	117.53	242.29	-85.68	0.74	Goetzel 34C-30-M (p)	SF(Hi)
13800.00	90.00	267.03	6955.00	180.79	54.49	244.20	241.29	-84.93	0.74	Goetzel 13C-30-M (p)	SF(Hi)
13900.00	90.00	267.03	6955.00	183.56	55.21	244.21	241.38	-89.89	0.73	Goetzel 34C-30-M (p)	SF(Hi)
14000.00	90.00	267.03	6955.00	186.32	55.94	244.23	241.47	-94.86	0.72	Goetzel 34C-30-M (p)	SF(Hi)
14100.00	90.00	267.03	6955.00	189.09	56.66	244.24	241.57	-99.83	0.71	Goetzel 34C-30-M (p)	SF(Hi)
14200.00	90.00	267.03	6955.00	191.86	57.39	244.25	241.66	-104.80	0.70	Goetzel 34C-30-M (p)	SF(Hi)
14300.00	90.00	267.03	6955.00	194.63	58.11	244.26	241.75	-109.77	0.69	Goetzel 34C-30-M (p)	SF(Hi)
14400.00	90.00	267.03	6955.00	197.40	58.84	244.27	241.84	-114.74	0.68	Goetzel 34C-30-M (p)	SF(Hi)
14500.00	90.00	267.03	6955.00	200.17	59.57	244.28	241.94	-119.72	0.67	Goetzel 34C-30-M (p)	SF(Hi)
14600.00	90.00	267.03	6955.00	202.94	60.29	244.29	242.03	-124.69	0.66	Goetzel 34C-30-M (p)	SF(Hi)
14700.00	90.00	267.03	6955.00	205.72	61.02	244.30	242.12	-129.67	0.65	Goetzel 34C-30-M (p)	SF(Hi)
14800.00	90.00	267.03	6955.00	208.49	61.75	244.31	242.21	-134.65	0.64	Goetzel 34C-30-M (p)	SF(Hi)
14900.00	90.00	267.03	6955.00	211.26	62.48	244.32	242.31	-139.64	0.63	Goetzel 34C-30-M (p)	SF(Hi)
15000.00	90.00	267.03	6955.00	214.04	63.20	244.33	242.40	-144.62	0.63	Goetzel 34C-30-M (p)	SF(Hi)
15100.00	90.00	267.03	6955.00	216.81	63.93	244.34	242.49	-149.61	0.62	Goetzel 34C-30-M (p)	SF(Hi)
15200.00	90.00	267.03	6955.00	219.59	64.66	244.35	242.58	-154.60	0.61	Goetzel 34C-30-M (p)	SF(Hi)
15300.00	90.00	267.03	6955.00	222.36	65.39	244.36	242.68	-159.58	0.60	Goetzel 34C-30-M (p)	SF(Hi)
15400.00	90.00	267.03	6955.00	225.14	66.11	244.37	242.77	-164.58	0.60	Goetzel 34C-30-M (p)	SF(Hi)
15500.00	90.00	267.03	6955.00	227.92	66.84	244.38	242.86	-169.57	0.59	Goetzel 34C-30-M (p)	SF(Hi)
15600.00	90.00	267.03	6955.00	230.70	67.57	244.39	242.95	-174.56	0.58	Goetzel 34C-30-M (p)	SF(Hi)
15628.56	90.00	267.03	6955.00	231.49	67.78	244.40	242.98	-175.99	0.58		SF(Hi)

5D Anti-Collision Report

Primary Well: Goetzel 34N-30C-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
											Goetzel 34C-30-M (p)
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	134.84	199.34	198.57	258.97	
100.00	72.00	0.00	0.00	100.00	1.09	1.09	134.84	197.37	195.40	100.28	
200.00	172.00	0.00	0.00	200.00	2.69	2.69	134.84	197.37	193.58	52.15	
300.00	272.00	0.00	0.00	300.00	5.73	5.73	134.84	197.37	190.33	28.06	
400.00	372.00	0.00	0.00	400.00	8.77	8.77	134.84	197.37	187.08	19.19	
500.00	472.00	0.00	0.00	500.00	11.80	11.80	353.80	196.93	183.58	14.75	
600.00	571.93	0.00	0.00	599.93	14.84	14.84	353.68	193.46	176.90	11.68	
700.00	671.68	0.00	0.00	699.68	17.87	17.87	353.43	186.53	166.73	9.42	
800.00	771.13	0.00	0.00	799.13	20.89	20.89	353.01	176.15	153.11	7.65	
900.00	870.15	0.00	0.00	898.15	23.89	23.89	352.38	162.35	136.06	6.18	
1000.00	968.63	0.00	0.00	996.63	26.89	26.89	351.42	145.15	115.62	4.92	
1100.00	1066.44	0.00	0.00	1094.44	29.86	29.86	349.92	124.62	91.85	3.80	
1200.00	1163.46	0.00	0.00	1191.46	32.80	32.80	347.41	100.87	64.88	2.80	
1300.00	1259.58	0.00	0.00	1287.58	35.72	35.72	342.62	74.15	35.03	1.90	SF(Lo)
1400.00	1354.68	0.00	0.00	1382.68	38.61	38.61	330.74	45.42	2.89	1.07	SF(Med); CC (Lo)
1500.00	1448.70	0.00	0.00	1476.70	41.46	41.46	284.96	22.11	-24.66	0.47	SF(Hi); CC (Med)
1600.00	1542.40	0.00	0.00	1570.40	44.31	44.31	218.18	35.85	-13.41	0.73	SF(Hi); CC (Lo)
1700.00	1636.10	0.00	0.00	1664.10	47.16	47.16	199.58	67.24	15.28	1.29	SF(Med)
1800.00	1729.80	0.00	0.00	1757.80	50.00	50.00	192.95	100.99	46.10	1.84	SF(Lo)
1900.00	1823.50	0.00	0.00	1851.50	52.85	52.85	189.64	135.33	77.29	2.33	SF(Lo)
2000.00	1917.20	0.00	0.00	1945.20	55.69	55.69	187.67	169.92	108.77	2.78	
2100.00	2010.90	0.00	0.00	2038.90	58.54	58.54	186.36	204.62	140.40	3.19	
2200.00	2104.61	0.00	0.00	2132.61	61.38	61.38	185.44	239.39	172.09	3.56	
2300.00	2198.31	0.00	0.00	2226.31	64.23	64.23	184.75	274.19	203.83	3.90	
2400.00	2292.01	0.00	0.00	2320.01	67.07	67.07	184.21	309.03	235.58	4.21	
2500.00	2385.71	0.00	0.00	2413.71	69.92	69.92	183.78	343.89	267.27	4.49	
2600.00	2479.41	0.00	0.00	2507.41	72.77	72.77	183.43	378.75	298.97	4.75	
2700.00	2573.11	0.00	0.00	2601.11	75.61	75.61	183.14	413.63	330.68	4.99	
2800.00	2666.81	0.00	0.00	2694.81	78.46	78.46	182.90	448.52	362.40	5.21	
2900.00	2760.51	0.00	0.00	2788.51	81.30	81.30	182.69	483.41	394.13	5.41	
3000.00	2854.22	0.00	0.00	2882.22	84.15	84.15	182.51	518.31	425.86	5.61	
3100.00	2947.92	0.00	0.00	2975.92	86.99	86.99	182.35	553.21	457.60	5.79	
3200.00	3041.62	0.00	0.00	3069.62	89.84	89.84	182.21	588.12	489.35	5.95	
3300.00	3135.32	0.00	0.00	3163.32	92.68	92.68	182.09	623.03	521.09	6.11	
3400.00	3229.02	0.00	0.00	3257.02	95.53	95.53	181.98	657.94	552.84	6.26	
3500.00	3322.72	0.00	0.00	3350.72	98.38	98.38	181.88	692.85	584.60	6.40	
3600.00	3416.42	0.00	0.00	3444.42	101.22	101.22	181.79	727.76	616.35	6.53	
3700.00	3510.13	0.00	0.00	3538.13	104.07	104.07	181.71	762.68	648.11	6.66	
3800.00	3603.83	0.00	0.00	3631.83	106.91	106.91	181.63	797.59	679.86	6.77	
3900.00	3697.53	0.00	0.00	3725.53	109.76	109.76	181.56	832.51	711.62	6.89	
4000.00	3791.23	0.00	0.00	3819.23	112.60	112.60	181.50	867.43	743.38	6.99	
4100.00	3884.93	0.00	0.00	3912.93	115.45	115.45	181.44	902.35	775.14	7.09	
4200.00	3978.63	0.00	0.00	4006.63	118.30	118.30	181.39	937.27	806.90	7.19	
4300.00	4072.33	0.00	0.00	4100.33	121.14	121.14	181.34	972.19	838.66	7.28	
4400.00	4166.03	0.00	0.00	4194.03	123.99	123.99	181.29	1007.11	870.42	7.37	
4500.00	4259.74	0.00	0.00	4287.74	126.83	126.83	181.25	1042.03	902.18	7.45	
4600.00	4353.44	0.00	0.00	4381.44	129.68	129.68	181.21	1076.95	933.95	7.53	
4700.00	4447.14	0.00	0.00	4475.14	132.52	132.52	181.17	1111.88	965.71	7.61	
4800.00	4540.84	0.00	0.00	4568.84	135.37	135.37	181.13	1146.80	997.47	7.68	
4900.00	4634.54	0.00	0.00	4662.54	138.21	138.21	181.10	1181.72	1029.24	7.75	

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
5000.00	4728.24	0.00	0.00	4756.24	141.06	141.06	181.07	1216.65	1061.00	7.82	
5100.00	4821.94	0.00	0.00	4849.94	143.91	143.91	181.04	1251.57	1092.77	7.88	
5200.00	4915.65	0.00	0.00	4943.65	146.75	146.75	181.01	1286.50	1124.53	7.94	
5300.00	5009.35	0.00	0.00	5037.35	149.60	149.60	180.98	1321.42	1156.30	8.00	
5400.00	5103.05	0.00	0.00	5131.05	152.44	152.44	180.96	1356.35	1188.06	8.06	
5500.00	5196.75	0.00	0.00	5224.75	155.29	155.29	180.93	1391.27	1219.83	8.11	
5600.00	5290.45	0.00	0.00	5318.45	158.13	158.13	180.91	1426.20	1251.59	8.17	
5700.00	5384.15	0.00	0.00	5412.15	160.98	160.98	180.89	1461.12	1283.36	8.22	
5800.00	5477.85	0.00	0.00	5505.85	163.82	163.82	180.87	1496.05	1315.12	8.27	
5900.00	5571.55	0.00	0.00	5599.55	166.67	166.67	180.85	1530.97	1346.89	8.32	
6000.00	5665.26	0.00	0.00	5693.26	169.52	169.52	180.83	1565.90	1378.65	8.36	
6100.00	5758.96	0.00	0.00	5786.96	172.36	172.36	180.81	1600.83	1410.42	8.41	
6200.00	5852.66	0.00	0.00	5880.66	175.21	175.21	180.79	1635.75	1442.18	8.45	
6300.00	5946.36	0.00	0.00	5974.36	178.05	178.05	180.78	1670.68	1473.95	8.49	
6400.00	6040.06	0.00	0.00	6068.06	180.90	180.90	180.76	1705.60	1505.71	8.53	
6500.00	6133.92	0.00	0.00	6161.92	183.75	183.75	173.12	1740.07	1537.02	8.57	
6600.00	6229.22	0.00	0.00	6257.22	186.64	186.64	147.39	1768.59	1562.43	8.58	
6700.00	6324.76	0.00	0.00	6352.76	189.54	189.54	121.36	1789.33	1580.15	8.55	
6800.00	6418.67	0.00	0.00	6446.67	192.40	192.40	102.84	1802.25	1590.25	8.50	
6900.00	6509.12	0.00	0.00	6537.12	195.14	195.14	91.99	1807.69	1593.11	8.42	
7000.00	6594.37	0.00	0.00	6622.37	197.73	197.73	86.18	1806.23	1588.51	8.30	
7100.00	6672.74	0.00	0.00	6700.74	200.11	200.11	83.48	1798.75	1578.07	8.15	
7200.00	6742.71	0.00	0.00	6770.71	202.24	202.24	82.73	1786.33	1563.06	8.00	
7300.00	6802.93	0.00	0.00	6830.93	204.07	204.07	83.24	1770.16	1544.81	7.86	
7400.00	6852.21	0.00	0.00	6880.21	205.56	205.56	84.51	1751.52	1523.86	7.69	
7500.00	6889.61	0.00	0.00	6917.61	206.70	206.70	86.15	1731.68	1501.23	7.51	
7600.00	6914.38	0.00	0.00	6942.38	207.45	207.45	87.87	1711.78	1479.30	7.36	
7700.00	6926.05	0.00	0.00	6954.05	207.80	207.80	89.46	1692.78	1458.71	7.23	
7800.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	1676.11	1439.57	7.09	
7900.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	1665.01	1426.72	6.99	
8000.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	1659.87	1420.05	6.92	
8100.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	1660.75	1418.27	6.85	
8200.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	1667.63	1423.48	6.83	
8300.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	1680.45	1434.59	6.84	
8400.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	1699.06	1450.77	6.84	
8500.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	1723.29	1473.48	6.90	
8600.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	1752.89	1501.83	6.98	
8700.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	1787.60	1534.56	7.06	
8800.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	1827.14	1572.88	7.19	
8900.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	1871.19	1616.39	7.34	
9000.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	1919.44	1663.10	7.49	
9100.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	1971.59	1714.06	7.66	
9200.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	2027.33	1769.15	7.85	
9300.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	2086.38	1827.99	8.07	
9400.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	2148.46	1889.32	8.29	
9500.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	2213.32	1953.41	8.52	
9600.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	2280.72	2020.37	8.76	
9700.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	2350.45	2089.94	9.02	
9800.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	2422.30	2161.85	9.30	
9900.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	2496.08	2235.62	9.58	
10000.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	2571.64	2310.62	9.85	
10100.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	2648.82	2387.45	10.13	
10200.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	2727.48	2465.86	10.43	
10300.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	2807.50	2545.72	10.72	
10400.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	2888.76	2626.96	11.03	
10500.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	2971.17	2709.45	11.35	
10600.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	3054.63	2793.09	11.68	
10700.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	3139.06	2877.72	12.01	

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
10800.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	3224.37	2962.83	12.33	
10900.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	3310.51	3048.89	12.65	
11000.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	3397.41	3135.63	12.98	
11100.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	3485.01	3223.11	13.31	
11200.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	3573.27	3311.36	13.64	
11300.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	3662.12	3400.23	13.98	
11400.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	3751.54	3489.78	14.33	
11500.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	3841.48	3579.66	14.67	
11600.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	3931.90	3670.12	15.02	
11700.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	4022.78	3761.13	15.37	
11800.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	4114.08	3852.64	15.74	
11900.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	4205.78	3944.60	16.10	
12000.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	4297.85	4036.96	16.47	
12100.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	4390.26	4129.60	16.84	
12200.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	4483.00	4222.30	17.20	
12300.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	4576.05	4315.19	17.54	
12400.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	4669.38	4408.42	17.89	
12500.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	4762.99	4501.95	18.25	
12600.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	4856.84	4595.75	18.60	
12700.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	4950.94	4689.82	18.96	
12800.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	5045.27	4784.14	19.32	
12900.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	5139.81	4878.68	19.68	
13000.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	5234.56	4973.44	20.05	
13100.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	5329.49	5068.40	20.41	
13200.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	5424.61	5163.56	20.78	
13300.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	5519.90	5258.89	21.15	
13400.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	5615.35	5354.39	21.52	
13500.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	5710.96	5450.06	21.89	
13600.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	5806.72	5545.87	22.26	
13700.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	5902.62	5641.84	22.63	
13800.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	5998.65	5737.93	23.01	
13900.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	6094.81	5834.16	23.38	
14000.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	6191.09	5930.52	23.76	
14100.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	6287.49	6026.99	24.14	
14200.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	6384.00	6123.57	24.51	
14300.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	6480.61	6220.26	24.89	
14400.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	6577.33	6317.04	25.27	
14500.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	6674.14	6413.92	25.65	
14600.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	6771.05	6510.89	26.03	
14700.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	6868.04	6607.95	26.41	
14800.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	6965.12	6705.10	26.79	
14900.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	7062.28	6802.33	27.17	
15000.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	7159.52	6899.64	27.55	
15100.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	7256.83	6997.02	27.93	
15200.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	7354.22	7094.48	28.31	
15300.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	7451.67	7192.01	28.70	
15400.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	7549.20	7289.60	29.08	
15500.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	7646.78	7387.25	29.46	
15600.00	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	7744.43	7484.97	29.85	
15628.56	6927.00	0.00	0.00	6955.00	207.83	207.83	90.00	7772.33	7512.89	29.96	
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	258.51	6830.43	6829.71	9381.11	
100.00	75.00	0.00	0.00	100.00	1.14	1.14	258.51	6830.39	6828.41	3456.86	
200.00	175.00	0.00	0.00	200.00	2.78	2.78	258.51	6830.39	6826.54	1776.96	
300.00	275.00	0.00	0.00	300.00	5.82	5.82	258.51	6830.39	6823.28	961.43	

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
400.00	375.00	0.00	0.00	400.00	8.86	8.86	258.51	6830.39	6820.02	658.99	
500.00	475.00	0.00	0.00	500.00	11.89	11.89	117.49	6830.59	6817.15	508.23	
600.00	574.93	0.00	0.00	599.93	14.93	14.93	117.48	6832.20	6815.54	410.10	
700.00	674.68	0.00	0.00	699.68	17.96	17.96	117.48	6835.43	6815.53	343.58	
800.00	774.13	0.00	0.00	799.13	20.98	20.98	117.47	6840.27	6817.12	295.42	
900.00	873.15	0.00	0.00	898.15	23.99	23.99	117.46	6846.74	6820.31	259.04	
1000.00	971.63	0.00	0.00	996.63	26.98	26.98	117.44	6854.84	6825.11	230.54	
1100.00	1069.44	0.00	0.00	1094.44	29.95	29.95	117.42	6864.59	6831.52	207.57	
1200.00	1166.46	0.00	0.00	1191.46	32.89	32.89	117.39	6875.99	6839.56	188.77	
1300.00	1262.58	0.00	0.00	1287.58	35.81	35.81	117.35	6889.06	6849.24	173.00	
1400.00	1357.68	0.00	0.00	1382.68	38.70	38.70	117.31	6903.82	6860.59	159.72	
1500.00	1451.70	0.00	0.00	1476.70	41.56	41.56	117.34	6920.21	6873.54	148.26	
1600.00	1545.40	0.00	0.00	1570.40	44.40	44.40	117.58	6937.15	6887.02	138.38	
1700.00	1639.10	0.00	0.00	1664.10	47.25	47.25	117.82	6954.23	6900.64	129.77	
1800.00	1732.80	0.00	0.00	1757.80	50.09	50.09	118.06	6971.43	6914.38	122.20	
1900.00	1826.50	0.00	0.00	1851.50	52.94	52.94	118.30	6988.77	6928.26	115.49	
2000.00	1920.20	0.00	0.00	1945.20	55.78	55.78	118.54	7006.24	6942.26	109.51	
2100.00	2013.90	0.00	0.00	2038.90	58.63	58.63	118.78	7023.84	6956.40	104.14	
2200.00	2107.61	0.00	0.00	2132.61	61.47	61.47	119.02	7041.57	6970.67	99.30	
2300.00	2201.31	0.00	0.00	2226.31	64.32	64.32	119.26	7059.43	6985.06	94.92	
2400.00	2295.01	0.00	0.00	2320.01	67.17	67.17	119.49	7077.42	6999.59	90.93	
2500.00	2388.71	0.00	0.00	2413.71	70.01	70.01	119.72	7095.53	7014.24	87.29	
2600.00	2482.41	0.00	0.00	2507.41	72.86	72.86	119.96	7113.77	7029.03	83.95	
2700.00	2576.11	0.00	0.00	2601.11	75.70	75.70	120.19	7132.13	7043.94	80.87	
2800.00	2669.81	0.00	0.00	2694.81	78.55	78.55	120.42	7150.62	7058.98	78.03	
2900.00	2763.51	0.00	0.00	2788.51	81.39	81.39	120.65	7169.22	7074.14	75.40	
3000.00	2857.22	0.00	0.00	2882.22	84.24	84.24	120.88	7187.95	7089.43	72.96	
3100.00	2950.92	0.00	0.00	2975.92	87.08	87.08	121.10	7206.80	7104.85	70.69	
3200.00	3044.62	0.00	0.00	3069.62	89.93	89.93	121.33	7225.77	7120.39	68.57	
3300.00	3138.32	0.00	0.00	3163.32	92.78	92.78	121.56	7244.86	7136.06	66.59	
3400.00	3232.02	0.00	0.00	3257.02	95.62	95.62	121.78	7264.07	7151.85	64.73	
3500.00	3325.72	0.00	0.00	3350.72	98.47	98.47	122.00	7283.39	7167.76	62.98	
3600.00	3419.42	0.00	0.00	3444.42	101.31	101.31	122.23	7302.83	7183.79	61.34	
3700.00	3513.13	0.00	0.00	3538.13	104.16	104.16	122.45	7322.39	7199.88	59.77	
3800.00	3606.83	0.00	0.00	3631.83	107.00	107.00	122.67	7342.05	7216.08	58.28	
3900.00	3700.53	0.00	0.00	3725.53	109.85	109.85	122.89	7361.84	7232.39	56.87	
4000.00	3794.23	0.00	0.00	3819.23	112.70	112.70	123.10	7381.73	7248.82	55.54	
4100.00	3887.93	0.00	0.00	3912.93	115.54	115.54	123.32	7401.74	7265.36	54.27	
4200.00	3981.63	0.00	0.00	4006.63	118.39	118.39	123.54	7421.85	7282.01	53.07	
4300.00	4075.33	0.00	0.00	4100.33	121.23	121.23	123.75	7442.08	7298.78	51.93	
4400.00	4169.03	0.00	0.00	4194.03	124.08	124.08	123.96	7462.41	7315.65	50.85	
4500.00	4262.74	0.00	0.00	4287.74	126.92	126.92	124.18	7482.85	7332.64	49.82	
4600.00	4356.44	0.00	0.00	4381.44	129.77	129.77	124.39	7503.40	7349.74	48.83	
4700.00	4450.14	0.00	0.00	4475.14	132.61	132.61	124.60	7524.06	7366.95	47.89	
4800.00	4543.84	0.00	0.00	4568.84	135.46	135.46	124.81	7544.81	7384.26	46.99	
4900.00	4637.54	0.00	0.00	4662.54	138.31	138.31	125.01	7565.68	7401.69	46.13	
5000.00	4731.24	0.00	0.00	4756.24	141.15	141.15	125.22	7586.65	7419.22	45.31	
5100.00	4824.94	0.00	0.00	4849.94	144.00	144.00	125.43	7607.72	7436.86	44.53	
5200.00	4918.65	0.00	0.00	4943.65	146.84	146.84	125.63	7628.89	7454.60	43.77	
5300.00	5012.35	0.00	0.00	5037.35	149.69	149.69	125.84	7650.16	7472.45	43.05	
5400.00	5106.05	0.00	0.00	5131.05	152.53	152.53	126.04	7671.53	7490.40	42.35	
5500.00	5199.75	0.00	0.00	5224.75	155.38	155.38	126.24	7693.01	7508.45	41.68	
5600.00	5293.45	0.00	0.00	5318.45	158.22	158.22	126.44	7714.58	7526.61	41.04	
5700.00	5387.15	0.00	0.00	5412.15	161.07	161.07	126.64	7736.24	7544.87	40.42	
5800.00	5480.85	0.00	0.00	5505.85	163.92	163.92	126.84	7758.01	7563.23	39.83	
5900.00	5574.55	0.00	0.00	5599.55	166.76	166.76	127.04	7779.87	7581.69	39.26	
6000.00	5668.26	0.00	0.00	5693.26	169.61	169.61	127.23	7801.83	7600.25	38.70	
6100.00	5761.96	0.00	0.00	5786.96	172.45	172.45	127.43	7823.88	7618.91	38.17	

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
6200.00	5855.66	0.00	0.00	5880.66	175.30	175.30	127.63	7846.02	7637.66	37.66	
6300.00	5949.36	0.00	0.00	5974.36	178.14	178.14	127.82	7868.26	7656.52	37.16	
6400.00	6043.06	0.00	0.00	6068.06	180.99	180.99	128.01	7890.58	7675.47	36.68	
6500.00	6136.92	0.00	0.00	6161.92	183.84	183.84	121.35	7912.14	7693.68	36.22	
6600.00	6232.22	0.00	0.00	6257.22	186.73	186.73	97.38	7922.91	7701.19	35.73	
6700.00	6327.76	0.00	0.00	6352.76	189.64	189.64	72.28	7919.88	7694.94	35.21	
6800.00	6421.67	0.00	0.00	6446.67	192.49	192.49	53.95	7903.13	7675.05	34.65	
6900.00	6512.12	0.00	0.00	6537.12	195.23	195.23	42.67	7872.99	7641.93	34.07	
7000.00	6597.37	0.00	0.00	6622.37	197.82	197.82	35.94	7830.04	7596.19	33.48	
7100.00	6675.74	0.00	0.00	6700.74	200.20	200.20	31.97	7775.11	7538.71	32.89	
7200.00	6745.71	0.00	0.00	6770.71	202.33	202.33	29.87	7709.26	7470.59	32.30	
7300.00	6805.93	0.00	0.00	6830.93	204.16	204.16	29.27	7633.75	7393.13	31.72	
7400.00	6855.21	0.00	0.00	6880.21	205.65	205.65	30.25	7550.04	7307.80	31.17	
7500.00	6892.61	0.00	0.00	6917.61	206.79	206.79	33.58	7459.73	7216.24	30.64	
7600.00	6917.38	0.00	0.00	6942.38	207.54	207.54	42.06	7364.56	7120.21	30.14	
7700.00	6929.05	0.00	0.00	6954.05	207.90	207.90	68.12	7266.35	7021.56	29.68	
7800.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	7167.00	6922.13	29.27	
7900.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	7067.63	6822.73	28.86	
8000.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	6968.27	6723.17	28.43	
8100.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	6868.93	6623.68	28.01	
8200.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	6769.61	6524.35	27.60	
8300.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	6670.31	6424.92	27.18	
8400.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	6571.03	6325.41	26.75	
8500.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	6471.77	6226.03	26.34	
8600.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	6372.54	6126.65	25.92	
8700.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	6273.33	6027.31	25.50	
8800.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	6174.14	5927.98	25.08	
8900.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	6074.98	5828.77	24.67	
9000.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	5975.85	5729.38	24.24	
9100.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	5876.75	5630.07	23.82	
9200.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	5777.69	5530.82	23.40	
9300.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	5678.65	5431.58	22.98	
9400.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	5579.65	5332.34	22.56	
9500.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	5480.68	5233.09	22.14	
9600.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	5381.75	5133.74	21.70	
9700.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	5282.87	5034.43	21.26	
9800.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	5184.02	4935.16	20.83	
9900.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	5085.22	4835.93	20.40	
10000.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	4986.47	4736.75	19.97	
10100.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	4887.77	4637.62	19.54	
10200.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	4789.12	4538.55	19.11	
10300.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	4690.54	4439.54	18.69	
10400.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	4592.01	4340.51	18.26	
10500.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	4493.54	4241.48	17.83	
10600.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	4395.15	4142.54	17.40	
10700.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	4296.83	4043.62	16.97	
10800.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	4198.59	3944.68	16.54	
10900.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	4100.43	3845.85	16.11	
11000.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	4002.37	3747.16	15.68	
11100.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	3904.40	3648.40	15.25	
11200.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	3806.54	3549.79	14.83	
11300.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	3708.80	3451.16	14.40	
11400.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	3611.18	3352.66	13.97	
11500.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	3513.69	3254.15	13.54	
11600.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	3416.34	3155.73	13.11	
11700.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	3319.16	3057.50	12.69	
11800.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	3222.14	2959.44	12.27	
11900.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	3125.32	2861.36	11.84	

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
12000.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	3028.70	2763.37	11.41	
12100.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	2932.31	2665.58	10.99	
12200.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	2836.17	2567.98	10.58	
12300.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	2740.30	2470.60	10.16	
12400.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	2644.74	2373.43	9.75	
12500.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	2549.52	2276.25	9.33	
12600.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	2454.68	2179.01	8.90	
12700.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	2360.27	2082.07	8.48	
12800.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	2266.34	1985.48	8.07	
12900.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	2172.94	1889.08	7.65	
13000.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	2080.17	1793.06	7.25	
13100.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	1988.09	1697.55	6.84	
13200.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	1896.82	1602.63	6.45	
13300.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	1806.47	1508.42	6.06	
13400.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	1717.18	1415.07	5.68	
13500.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	1629.15	1322.02	5.30	
13600.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	1542.57	1229.78	4.93	
13700.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	1457.72	1138.76	4.57	
13800.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	1374.90	1049.16	4.22	
13900.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	1294.51	961.76	3.89	
14000.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	1217.03	875.44	3.56	
14100.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	1143.05	792.39	3.26	
14200.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	1073.30	713.73	2.98	
14300.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	1008.65	638.36	2.72	
14400.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	950.15	569.92	2.50	SF(Lo)
14500.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	899.00	508.01	2.30	SF(Lo)
14600.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	856.51	456.08	2.14	SF(Lo)
14700.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	824.02	414.16	2.01	SF(Lo)
14800.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	802.75	386.44	1.93	SF(Lo)
14900.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	793.61	374.31	1.89	SF(Lo)
15000.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	797.01	376.99	1.90	SF(Lo)
15100.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	812.79	395.55	1.95	SF(Lo)
15200.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	840.26	429.19	2.04	SF(Lo)
15300.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	878.32	474.75	2.18	SF(Lo)
15400.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	925.66	530.38	2.34	SF(Lo)
15500.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	980.95	594.84	2.54	
15600.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	1042.91	665.83	2.77	
15628.56	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	1061.68	687.03	2.83	
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	254.52	5766.03	5765.30	7919.35	
100.00	67.00	0.00	0.00	100.00	1.02	1.02	254.52	5765.93	5764.08	3114.32	
200.00	167.00	0.00	0.00	200.00	2.54	2.54	254.52	5765.93	5762.34	1604.75	
300.00	267.00	0.00	0.00	300.00	5.58	5.58	254.52	5765.93	5759.09	842.41	
400.00	367.00	0.00	0.00	400.00	8.61	8.61	254.52	5765.93	5755.84	571.11	
500.00	467.00	0.00	0.00	500.00	11.65	11.65	113.50	5766.11	5752.94	438.00	
600.00	566.93	0.00	0.00	599.93	14.69	14.69	113.50	5767.50	5751.12	352.18	
700.00	666.68	0.00	0.00	699.68	17.72	17.72	113.51	5770.29	5750.68	294.34	
800.00	766.13	0.00	0.00	799.13	20.74	20.74	113.53	5774.48	5751.64	252.81	
900.00	865.15	0.00	0.00	898.15	23.74	23.74	113.55	5780.09	5753.97	221.35	
1000.00	963.63	0.00	0.00	996.63	26.73	26.73	113.58	5787.12	5757.71	196.79	
1100.00	1061.44	0.00	0.00	1094.44	29.70	29.70	113.61	5795.60	5762.86	177.01	
1200.00	1158.46	0.00	0.00	1191.46	32.65	32.65	113.64	5805.54	5769.44	160.82	
1300.00	1254.58	0.00	0.00	1287.58	35.57	35.57	113.67	5816.97	5777.46	147.22	
1400.00	1349.68	0.00	0.00	1382.68	38.46	38.46	113.70	5829.91	5786.98	135.78	
1500.00	1443.70	0.00	0.00	1476.70	41.31	41.31	113.80	5844.34	5797.94	125.94	

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
1600.00	1537.40	0.00	0.00	1570.40	44.16	44.16	114.09	5859.30	5809.42	117.46	
1700.00	1631.10	0.00	0.00	1664.10	47.00	47.00	114.39	5874.43	5821.07	110.08	
1800.00	1724.80	0.00	0.00	1757.80	49.85	49.85	114.68	5889.73	5832.88	103.60	
1900.00	1818.50	0.00	0.00	1851.50	52.69	52.69	114.98	5905.20	5844.85	97.86	
2000.00	1912.20	0.00	0.00	1945.20	55.54	55.54	115.27	5920.83	5856.99	92.75	
2100.00	2005.90	0.00	0.00	2038.90	58.39	58.39	115.56	5936.62	5869.29	88.17	
2200.00	2099.61	0.00	0.00	2132.61	61.23	61.23	115.84	5952.58	5881.76	84.05	
2300.00	2193.31	0.00	0.00	2226.31	64.08	64.08	116.13	5968.70	5894.38	80.31	
2400.00	2287.01	0.00	0.00	2320.01	66.92	66.92	116.41	5984.98	5907.17	76.92	
2500.00	2380.71	0.00	0.00	2413.71	69.77	69.77	116.70	6001.42	5920.12	73.82	
2600.00	2474.41	0.00	0.00	2507.41	72.61	72.61	116.98	6018.02	5933.23	70.98	
2700.00	2568.11	0.00	0.00	2601.11	75.46	75.46	117.26	6034.77	5946.50	68.37	
2800.00	2661.81	0.00	0.00	2694.81	78.31	78.31	117.54	6051.68	5959.93	65.96	
2900.00	2755.51	0.00	0.00	2788.51	81.15	81.15	117.82	6068.74	5973.52	63.73	
3000.00	2849.22	0.00	0.00	2882.22	84.00	84.00	118.10	6085.96	5987.27	61.67	
3100.00	2942.92	0.00	0.00	2975.92	86.84	86.84	118.37	6103.33	6001.17	59.74	
3200.00	3036.62	0.00	0.00	3069.62	89.69	89.69	118.65	6120.84	6015.22	57.95	
3300.00	3130.32	0.00	0.00	3163.32	92.53	92.53	118.92	6138.51	6029.43	56.28	
3400.00	3224.02	0.00	0.00	3257.02	95.38	95.38	119.19	6156.32	6043.79	54.71	
3500.00	3317.72	0.00	0.00	3350.72	98.22	98.22	119.46	6174.28	6058.30	53.24	
3600.00	3411.42	0.00	0.00	3444.42	101.07	101.07	119.73	6192.39	6072.97	51.85	
3700.00	3505.13	0.00	0.00	3538.13	103.92	103.92	119.99	6210.63	6087.78	50.55	
3800.00	3598.83	0.00	0.00	3631.83	106.76	106.76	120.26	6229.02	6102.74	49.33	
3900.00	3692.53	0.00	0.00	3725.53	109.61	109.61	120.52	6247.56	6117.85	48.17	
4000.00	3786.23	0.00	0.00	3819.23	112.45	112.45	120.78	6266.23	6133.11	47.07	
4100.00	3879.93	0.00	0.00	3912.93	115.30	115.30	121.05	6285.04	6148.51	46.03	
4200.00	3973.63	0.00	0.00	4006.63	118.14	118.14	121.31	6303.98	6164.05	45.05	
4300.00	4067.33	0.00	0.00	4100.33	120.99	120.99	121.56	6323.07	6179.74	44.12	
4400.00	4161.03	0.00	0.00	4194.03	123.83	123.83	121.82	6342.29	6195.57	43.23	
4500.00	4254.74	0.00	0.00	4287.74	126.68	126.68	122.08	6361.64	6211.54	42.38	
4600.00	4348.44	0.00	0.00	4381.44	129.53	129.53	122.33	6381.12	6227.63	41.57	
4700.00	4442.14	0.00	0.00	4475.14	132.37	132.37	122.58	6400.74	6243.77	40.78	
4800.00	4535.84	0.00	0.00	4568.84	135.22	135.22	122.83	6420.49	6260.05	40.02	
4900.00	4629.54	0.00	0.00	4662.54	138.06	138.06	123.08	6440.36	6276.46	39.29	
5000.00	4723.24	0.00	0.00	4756.24	140.91	140.91	123.33	6460.37	6293.00	38.60	
5100.00	4816.94	0.00	0.00	4849.94	143.75	143.75	123.58	6480.49	6309.67	37.94	
5200.00	4910.65	0.00	0.00	4943.65	146.60	146.60	123.82	6500.75	6326.47	37.30	
5300.00	5004.35	0.00	0.00	5037.35	149.44	149.44	124.07	6521.13	6343.40	36.69	
5400.00	5098.05	0.00	0.00	5131.05	152.29	152.29	124.31	6541.63	6360.46	36.11	
5500.00	5191.75	0.00	0.00	5224.75	155.14	155.14	124.55	6562.25	6377.65	35.55	
5600.00	5285.45	0.00	0.00	5318.45	157.98	157.98	124.79	6583.00	6394.96	35.01	
5700.00	5379.15	0.00	0.00	5412.15	160.83	160.83	125.03	6603.86	6412.39	34.49	
5800.00	5472.85	0.00	0.00	5505.85	163.67	163.67	125.27	6624.85	6429.95	33.99	
5900.00	5566.55	0.00	0.00	5599.55	166.52	166.52	125.50	6645.95	6447.63	33.51	
6000.00	5660.26	0.00	0.00	5693.26	169.36	169.36	125.74	6667.16	6465.43	33.05	
6100.00	5753.96	0.00	0.00	5786.96	172.21	172.21	125.97	6688.49	6483.35	32.60	
6200.00	5847.66	0.00	0.00	5880.66	175.06	175.06	126.20	6709.94	6501.39	32.17	
6300.00	5941.36	0.00	0.00	5974.36	177.90	177.90	126.43	6731.50	6519.55	31.76	
6400.00	6035.06	0.00	0.00	6068.06	180.75	180.75	126.66	6753.17	6537.83	31.36	
6500.00	6128.92	0.00	0.00	6161.92	183.60	183.60	120.05	6774.09	6555.38	30.97	
6600.00	6224.22	0.00	0.00	6257.22	186.49	186.49	96.14	6784.20	6562.24	30.56	
6700.00	6319.76	0.00	0.00	6352.76	189.39	189.39	71.07	6780.53	6555.33	30.11	
6800.00	6413.67	0.00	0.00	6446.67	192.24	192.24	52.74	6763.13	6534.80	29.62	
6900.00	6504.12	0.00	0.00	6537.12	194.99	194.99	41.45	6732.36	6501.05	29.10	
7000.00	6589.37	0.00	0.00	6622.37	197.58	197.58	34.67	6688.81	6454.71	28.57	
7100.00	6667.74	0.00	0.00	6700.74	199.96	199.96	30.62	6633.31	6396.67	28.03	
7200.00	6737.71	0.00	0.00	6770.71	202.09	202.09	28.39	6566.94	6328.03	27.49	
7300.00	6797.93	0.00	0.00	6830.93	203.91	203.91	27.59	6490.95	6250.09	26.95	

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
7400.00	6847.21	0.00	0.00	6880.21	205.41	205.41	28.25	6406.81	6164.34	26.42	
7500.00	6884.61	0.00	0.00	6917.61	206.55	206.55	31.04	6316.12	6072.41	25.92	
7600.00	6909.38	0.00	0.00	6942.38	207.30	207.30	38.61	6220.64	5976.07	25.44	
7700.00	6921.05	0.00	0.00	6954.05	207.65	207.65	64.73	6122.18	5877.18	24.99	
7800.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	6022.65	5777.56	24.57	
7900.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	5923.08	5677.98	24.17	
8000.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	5823.53	5578.33	23.75	
8100.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	5724.00	5478.62	23.33	
8200.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	5624.48	5379.12	22.92	
8300.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	5524.98	5279.47	22.50	
8400.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	5425.49	5179.83	22.09	
8500.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	5326.03	5080.28	21.67	
8600.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	5226.59	4980.69	21.26	
8700.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	5127.16	4881.20	20.85	
8800.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	5027.77	4781.62	20.43	
8900.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	4928.39	4682.20	20.02	
9000.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	4829.04	4582.71	19.60	
9100.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	4729.72	4483.18	19.18	
9200.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	4630.43	4383.71	18.77	
9300.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	4531.17	4284.29	18.35	
9400.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	4431.94	4184.92	17.94	
9500.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	4332.75	4085.55	17.53	
9600.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	4233.60	3986.22	17.11	
9700.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	4134.49	3886.81	16.69	
9800.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	4035.42	3787.42	16.27	
9900.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	3936.40	3687.99	15.85	
10000.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	3837.42	3588.57	15.42	
10100.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	3738.51	3489.21	15.00	
10200.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	3639.65	3389.89	14.57	
10300.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	3540.86	3290.65	14.15	
10400.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	3442.13	3191.47	13.73	
10500.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	3343.49	3092.27	13.31	
10600.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	3244.92	2993.10	12.89	
10700.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	3146.45	2893.94	12.46	
10800.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	3048.07	2794.78	12.03	
10900.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	2949.81	2695.75	11.61	
11000.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	2851.66	2596.89	11.19	
11100.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	2753.65	2497.98	10.77	
11200.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	2655.79	2399.21	10.35	
11300.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	2558.09	2300.47	9.93	
11400.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	2460.58	2201.89	9.51	
11500.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	2363.27	2103.25	9.09	
11600.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	2266.20	2004.83	8.67	
11700.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	2169.40	1906.66	8.26	
11800.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	2072.90	1808.65	7.84	
11900.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	1976.75	1710.71	7.43	
12000.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	1881.00	1613.09	7.02	
12100.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	1785.71	1515.73	6.61	
12200.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	1690.97	1418.25	6.20	
12300.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	1596.87	1321.01	5.79	
12400.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	1503.53	1224.17	5.38	
12500.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	1411.11	1127.74	4.98	
12600.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	1319.79	1032.10	4.59	
12700.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	1229.82	937.50	4.21	
12800.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	1141.52	843.54	3.83	
12900.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	1055.32	750.53	3.46	
13000.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	971.75	659.78	3.11	
13100.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	891.58	571.08	2.78	

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
13200.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	815.81	484.51	2.46	SF(Lo)
13300.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	745.76	403.95	2.18	SF(Lo)
13400.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	683.21	328.85	1.93	SF(Lo)
13500.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	630.39	264.19	1.72	SF(Lo)
13600.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	589.92	212.61	1.56	SF(Lo)
13700.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	564.46	179.04	1.46	SF(Med)
13800.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	556.09	167.41	1.43	SF(Med)
13900.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	565.55	179.35	1.46	SF(Med)
14000.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	592.00	213.35	1.56	SF(Lo)
14100.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	633.31	264.85	1.72	SF(Lo)
14200.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	686.80	329.25	1.92	SF(Lo)
14300.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	749.88	403.48	2.16	SF(Lo)
14400.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	820.32	485.30	2.45	SF(Lo)
14500.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	896.41	570.68	2.75	
14600.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	976.81	659.61	3.08	
14700.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	1060.56	751.02	3.43	
14800.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	1146.91	843.12	3.78	
14900.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	1235.32	936.98	4.14	
15000.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	1325.38	1032.13	4.52	
15100.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	1416.77	1128.23	4.91	
15200.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	1509.26	1224.56	5.30	
15300.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	1602.65	1320.79	5.69	
15400.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	1696.79	1417.60	6.08	
15500.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	1791.57	1514.85	6.47	
15600.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	1886.88	1612.48	6.88	
15628.56	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	1914.19	1640.42	6.99	

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	239.85	3146.02	3145.29	4320.82	
100.00	67.00	0.00	0.00	100.00	1.02	1.02	239.85	3145.84	3143.99	1695.93	
200.00	167.00	0.00	0.00	200.00	2.54	2.54	239.85	3145.84	3142.24	873.37	
300.00	267.00	0.00	0.00	300.00	5.58	5.58	239.85	3145.84	3138.98	458.34	
400.00	367.00	0.00	0.00	400.00	8.61	8.61	239.85	3145.84	3135.72	310.69	
500.00	467.00	0.00	0.00	500.00	11.65	11.65	98.83	3145.91	3132.71	238.29	
600.00	566.93	0.00	0.00	599.93	14.69	14.69	98.89	3146.45	3130.02	191.58	
700.00	666.68	0.00	0.00	699.68	17.72	17.72	98.99	3147.53	3127.87	160.10	
800.00	766.13	0.00	0.00	799.13	20.74	20.74	99.14	3149.19	3126.27	137.37	
900.00	865.15	0.00	0.00	898.15	23.74	23.74	99.35	3151.45	3125.24	120.23	
1000.00	963.63	0.00	0.00	996.63	26.73	26.73	99.60	3154.35	3124.82	106.82	
1100.00	1061.44	0.00	0.00	1094.44	29.70	29.70	99.89	3157.94	3125.06	96.04	
1200.00	1158.46	0.00	0.00	1191.46	32.65	32.65	100.22	3162.29	3126.04	87.22	
1300.00	1254.58	0.00	0.00	1287.58	35.57	35.57	100.59	3167.47	3127.79	79.83	
1400.00	1349.68	0.00	0.00	1382.68	38.46	38.46	101.00	3173.54	3130.41	73.58	
1500.00	1443.70	0.00	0.00	1476.70	41.31	41.31	101.47	3180.58	3133.97	68.25	
1600.00	1537.40	0.00	0.00	1570.40	44.16	44.16	102.04	3188.15	3138.07	63.66	
1700.00	1631.10	0.00	0.00	1664.10	47.00	47.00	102.62	3196.09	3142.53	59.67	
1800.00	1724.80	0.00	0.00	1757.80	49.85	49.85	103.19	3204.38	3147.34	56.18	
1900.00	1818.50	0.00	0.00	1851.50	52.69	52.69	103.76	3213.04	3152.43	53.02	
2000.00	1912.20	0.00	0.00	1945.20	55.54	55.54	104.33	3222.05	3157.88	50.21	
2100.00	2005.90	0.00	0.00	2038.90	58.39	58.39	104.90	3231.41	3163.69	47.71	
2200.00	2099.61	0.00	0.00	2132.61	61.23	61.23	105.46	3241.13	3169.84	45.47	
2300.00	2193.31	0.00	0.00	2226.31	64.08	64.08	106.02	3251.19	3176.35	43.45	
2400.00	2287.01	0.00	0.00	2320.01	66.92	66.92	106.57	3261.59	3183.21	41.62	
2500.00	2380.71	0.00	0.00	2413.71	69.77	69.77	107.12	3272.33	3190.42	39.95	
2600.00	2474.41	0.00	0.00	2507.41	72.61	72.61	107.67	3283.41	3197.98	38.43	
2700.00	2568.11	0.00	0.00	2601.11	75.46	75.46	108.22	3294.82	3205.87	37.04	

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
2800.00	2661.81	0.00	0.00	2694.81	78.31	78.31	108.76	3306.56	3214.11	35.77	
2900.00	2755.51	0.00	0.00	2788.51	81.15	81.15	109.30	3318.63	3222.69	34.59	
3000.00	2849.22	0.00	0.00	2882.22	84.00	84.00	109.84	3331.02	3231.61	33.51	
3100.00	2942.92	0.00	0.00	2975.92	86.84	86.84	110.37	3343.73	3240.85	32.50	
3200.00	3036.62	0.00	0.00	3069.62	89.69	89.69	110.90	3356.75	3250.43	31.57	
3300.00	3130.32	0.00	0.00	3163.32	92.53	92.53	111.42	3370.09	3260.34	30.71	
3400.00	3224.02	0.00	0.00	3257.02	95.38	95.38	111.94	3383.73	3270.57	29.90	
3500.00	3317.72	0.00	0.00	3350.72	98.22	98.22	112.46	3397.68	3281.12	29.15	
3600.00	3411.42	0.00	0.00	3444.42	101.07	101.07	112.97	3411.93	3291.88	28.42	
3700.00	3505.13	0.00	0.00	3538.13	103.92	103.92	113.48	3426.48	3302.89	27.73	
3800.00	3598.83	0.00	0.00	3631.83	106.76	106.76	113.99	3441.31	3314.21	27.07	
3900.00	3692.53	0.00	0.00	3725.53	109.61	109.61	114.49	3456.44	3325.83	26.46	
4000.00	3786.23	0.00	0.00	3819.23	112.45	112.45	114.99	3471.86	3337.75	25.89	
4100.00	3879.93	0.00	0.00	3912.93	115.30	115.30	115.48	3487.55	3349.96	25.35	
4200.00	3973.63	0.00	0.00	4006.63	118.14	118.14	115.97	3503.52	3362.46	24.84	
4300.00	4067.33	0.00	0.00	4100.33	120.99	120.99	116.46	3519.77	3375.25	24.36	
4400.00	4161.03	0.00	0.00	4194.03	123.83	123.83	116.94	3536.29	3388.33	23.90	
4500.00	4254.74	0.00	0.00	4287.74	126.68	126.68	117.42	3553.07	3401.69	23.47	
4600.00	4348.44	0.00	0.00	4381.44	129.53	129.53	117.89	3570.12	3415.32	23.06	
4700.00	4442.14	0.00	0.00	4475.14	132.37	132.37	118.36	3587.43	3429.23	22.68	
4800.00	4535.84	0.00	0.00	4568.84	135.22	135.22	118.82	3604.99	3443.42	22.31	
4900.00	4629.54	0.00	0.00	4662.54	138.06	138.06	119.28	3622.80	3457.87	21.96	
5000.00	4723.24	0.00	0.00	4756.24	140.91	140.91	119.74	3640.86	3472.56	21.63	
5100.00	4816.94	0.00	0.00	4849.94	143.75	143.75	120.19	3659.17	3487.52	21.32	
5200.00	4910.65	0.00	0.00	4943.65	146.60	146.60	120.64	3677.72	3502.73	21.02	
5300.00	5004.35	0.00	0.00	5037.35	149.44	149.44	121.09	3696.50	3518.19	20.73	
5400.00	5098.05	0.00	0.00	5131.05	152.29	152.29	121.53	3715.52	3533.91	20.46	
5500.00	5191.75	0.00	0.00	5224.75	155.14	155.14	121.96	3734.76	3549.87	20.20	
5600.00	5285.45	0.00	0.00	5318.45	157.98	157.98	122.40	3754.23	3566.02	19.95	
5700.00	5379.15	0.00	0.00	5412.15	160.83	160.83	122.82	3773.93	3582.25	19.69	
5800.00	5472.85	0.00	0.00	5505.85	163.67	163.67	123.25	3793.85	3598.71	19.44	
5900.00	5566.55	0.00	0.00	5599.55	166.52	166.52	123.67	3813.98	3615.40	19.21	
6000.00	5660.26	0.00	0.00	5693.26	169.36	169.36	124.08	3834.32	3632.31	18.98	
6100.00	5753.96	0.00	0.00	5786.96	172.21	172.21	124.49	3854.87	3649.45	18.77	
6200.00	5847.66	0.00	0.00	5880.66	175.06	175.06	124.90	3875.63	3666.80	18.56	
6300.00	5941.36	0.00	0.00	5974.36	177.90	177.90	125.31	3896.59	3684.38	18.36	
6400.00	6035.06	0.00	0.00	6068.06	180.75	180.75	125.71	3917.75	3702.16	18.17	
6500.00	6128.92	0.00	0.00	6161.92	183.60	183.60	119.27	3938.24	3719.31	17.99	
6600.00	6224.22	0.00	0.00	6257.22	186.49	186.49	95.54	3948.01	3725.85	17.77	
6700.00	6319.76	0.00	0.00	6352.76	189.39	189.39	70.63	3944.06	3718.71	17.50	
6800.00	6413.67	0.00	0.00	6446.67	192.24	192.24	52.48	3926.48	3698.06	17.19	
6900.00	6504.12	0.00	0.00	6537.12	194.99	194.99	41.35	3895.62	3664.27	16.84	
7000.00	6589.37	0.00	0.00	6622.37	197.58	197.58	34.76	3852.06	3618.00	16.46	
7100.00	6667.74	0.00	0.00	6700.74	199.96	199.96	30.93	3796.65	3560.11	16.05	
7200.00	6737.71	0.00	0.00	6770.71	202.09	202.09	28.98	3730.43	3491.70	15.63	
7300.00	6797.93	0.00	0.00	6830.93	203.91	203.91	28.54	3654.67	3414.07	15.19	
7400.00	6847.21	0.00	0.00	6880.21	205.41	205.41	29.70	3570.80	3328.66	14.75	
7500.00	6884.61	0.00	0.00	6917.61	206.55	206.55	33.29	3480.42	3237.11	14.30	
7600.00	6909.38	0.00	0.00	6942.38	207.30	207.30	42.16	3385.23	3141.13	13.87	
7700.00	6921.05	0.00	0.00	6954.05	207.65	207.65	68.58	3287.04	3042.57	13.45	
7800.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	3187.74	2943.24	13.04	
7900.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	3088.43	2843.94	12.63	
8000.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	2989.17	2744.53	12.22	
8100.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	2889.96	2645.23	11.81	
8200.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	2790.81	2546.09	11.40	
8300.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	2691.71	2446.98	11.00	
8400.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	2592.69	2347.63	10.58	
8500.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	2493.75	2248.40	10.16	

5D Anti-Collision Report

Secondary Well: Firestien #30-44 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
8600.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	2394.89	2149.28	9.75	
8700.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	2296.13	2050.14	9.33	
8800.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	2197.49	1951.28	8.93	
8900.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	2098.97	1852.23	8.51	
9000.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	2000.60	1753.43	8.09	
9100.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	1902.40	1654.84	7.68	
9200.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	1804.40	1556.30	7.27	
9300.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	1706.63	1457.89	6.86	
9400.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	1609.13	1359.76	6.45	
9500.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	1511.96	1261.93	6.05	
9600.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	1415.19	1164.36	5.64	
9700.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	1318.89	1067.08	5.24	
9800.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	1223.20	970.40	4.84	
9900.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	1128.24	873.80	4.43	
10000.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	1034.24	777.39	4.03	
10100.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	941.48	682.04	3.63	
10200.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	850.36	588.29	3.24	
10300.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	761.47	495.68	2.86	
10400.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	675.69	404.69	2.49	SF(Lo)
10500.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	594.38	317.84	2.15	SF(Lo)
10600.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	519.63	235.14	1.83	SF(Lo)
10700.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	454.68	161.17	1.55	SF(Lo)
10800.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	404.31	101.91	1.34	SF(Med)
10900.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	374.42	65.01	1.21	SF(Med)
11000.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	370.02	59.40	1.19	SF(Med)
11100.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	391.97	86.34	1.28	SF(Med)
11200.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	436.31	138.69	1.47	SF(Med)
11300.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	497.08	208.45	1.72	SF(Lo)
11400.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	569.05	288.75	2.03	SF(Lo)
11500.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	648.49	374.38	2.37	SF(Lo)
11600.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	732.99	464.46	2.73	
11700.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	820.97	556.13	3.10	
11800.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	911.44	650.09	3.49	
11900.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	1003.72	745.45	3.89	
12000.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	1097.35	840.57	4.27	
12100.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	1192.01	936.76	4.67	
12200.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	1287.49	1033.71	5.07	
12300.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	1383.60	1131.06	5.48	
12400.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	1480.23	1228.73	5.89	
12500.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	1577.28	1326.77	6.30	
12600.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	1674.67	1425.11	6.71	
12700.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	1772.36	1523.62	7.13	
12800.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	1870.29	1621.85	7.53	
12900.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	1968.43	1720.21	7.93	
13000.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	2066.74	1818.75	8.33	
13100.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	2165.21	1917.45	8.74	
13200.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	2263.82	2016.27	9.15	
13300.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	2362.54	2115.22	9.55	
13400.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	2461.37	2214.26	9.96	
13500.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	2560.28	2313.38	10.37	
13600.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	2659.28	2412.58	10.78	
13700.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	2758.35	2511.78	11.19	
13800.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	2857.49	2611.01	11.59	
13900.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	2956.68	2710.30	12.00	
14000.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	3055.93	2809.63	12.41	
14100.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	3155.22	2909.00	12.81	
14200.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	3254.56	3008.42	13.22	
14300.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	3353.93	3107.87	13.63	

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
14400.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	3453.34	3207.36	14.04	
14500.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	3552.79	3306.87	14.45	
14600.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	3652.26	3406.42	14.86	
14700.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	3751.77	3505.99	15.26	
14800.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	3851.30	3605.58	15.67	
14900.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	3950.85	3705.19	16.08	
15000.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	4050.42	3804.83	16.49	
15100.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	4150.02	3904.48	16.90	
15200.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	4249.63	4004.14	17.31	
15300.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	4349.27	4103.81	17.72	
15400.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	4448.91	4203.50	18.13	
15500.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	4548.58	4303.20	18.54	
15600.00	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	4648.26	4402.92	18.95	
15628.56	6922.00	0.00	0.00	6955.00	207.68	207.68	90.00	4676.73	4431.40	19.06	
Secondary Well: Tollgate 1 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
0.00	0.00	0.00	0.00	39.00	0.00	0.00	224.35	2094.88	2094.16	2877.22	
100.00	61.00	0.00	0.00	100.00	0.93	0.93	224.35	2094.52	2092.76	1189.45	
200.00	161.00	0.00	0.00	200.00	2.44	2.44	224.35	2094.52	2091.02	598.80	
300.00	261.00	0.00	0.00	300.00	5.40	5.40	224.35	2094.52	2087.86	314.29	
400.00	361.00	0.00	0.00	400.00	8.43	8.43	224.35	2094.52	2084.78	214.94	
500.00	461.00	0.00	0.00	500.00	11.47	11.47	83.34	2094.47	2081.48	161.29	
600.00	560.93	0.00	0.00	599.93	14.50	14.50	83.44	2094.07	2077.87	129.28	
700.00	660.68	0.00	0.00	699.68	17.53	17.53	83.64	2093.28	2073.86	107.76	
800.00	760.13	0.00	0.00	799.13	20.55	20.55	83.95	2092.15	2069.48	92.31	
900.00	859.15	0.00	0.00	898.15	23.56	23.56	84.35	2090.71	2064.77	80.57	
1000.00	957.63	0.00	0.00	996.63	26.55	26.55	84.85	2089.06	2059.78	71.36	
1100.00	1055.44	0.00	0.00	1094.44	29.52	29.52	85.45	2087.26	2054.62	63.95	
1200.00	1152.46	0.00	0.00	1191.46	32.47	32.47	86.13	2085.43	2049.36	57.83	
1300.00	1248.58	0.00	0.00	1287.58	35.39	35.39	86.89	2083.68	2044.16	52.72	
1400.00	1343.68	0.00	0.00	1382.68	38.28	38.28	87.73	2082.16	2039.14	48.41	
1500.00	1437.70	0.00	0.00	1476.70	41.13	41.13	88.62	2081.00	2034.47	44.72	
1600.00	1531.40	0.00	0.00	1570.40	43.98	43.98	89.53	2080.40	2030.33	41.55	
1700.00	1625.10	0.00	0.00	1664.10	46.82	46.82	90.43	2080.39	2026.79	38.81	
1800.00	1718.80	0.00	0.00	1757.80	49.67	49.67	91.33	2080.96	2023.84	36.43	
1900.00	1812.50	0.00	0.00	1851.50	52.51	52.51	92.23	2082.11	2021.49	34.34	
2000.00	1906.20	0.00	0.00	1945.20	55.36	55.36	93.13	2083.86	2019.74	32.50	
2100.00	1999.90	0.00	0.00	2038.90	58.20	58.20	94.03	2086.18	2018.54	30.84	
2200.00	2093.61	0.00	0.00	2132.61	61.05	61.05	94.92	2089.09	2017.83	29.32	
2300.00	2187.31	0.00	0.00	2226.31	63.89	63.89	95.82	2092.57	2017.70	27.95	
2400.00	2281.01	0.00	0.00	2320.01	66.74	66.74	96.71	2096.64	2018.18	26.72	
2500.00	2374.71	0.00	0.00	2413.71	69.59	69.59	97.59	2101.27	2019.24	25.62	
2600.00	2468.41	0.00	0.00	2507.41	72.43	72.43	98.48	2106.47	2020.90	24.61	
2700.00	2562.11	0.00	0.00	2601.11	75.28	75.28	99.36	2112.24	2023.14	23.71	
2800.00	2655.81	0.00	0.00	2694.81	78.12	78.12	100.23	2118.57	2025.97	22.88	
2900.00	2749.51	0.00	0.00	2788.51	80.97	80.97	101.10	2125.45	2029.37	22.12	
3000.00	2843.22	0.00	0.00	2882.22	83.81	83.81	101.97	2132.89	2033.35	21.43	
3100.00	2936.92	0.00	0.00	2975.92	86.66	86.66	102.83	2140.87	2037.90	20.79	
3200.00	3030.62	0.00	0.00	3069.62	89.51	89.51	103.68	2149.38	2042.87	20.18	
3300.00	3124.32	0.00	0.00	3163.32	92.35	92.35	104.53	2158.43	2048.32	19.60	
3400.00	3218.02	0.00	0.00	3257.02	95.20	95.20	105.37	2168.00	2054.31	19.07	
3500.00	3311.72	0.00	0.00	3350.72	98.04	98.04	106.21	2178.10	2060.85	18.58	
3600.00	3405.42	0.00	0.00	3444.42	100.89	100.89	107.03	2188.70	2067.92	18.12	
3700.00	3499.13	0.00	0.00	3538.13	103.73	103.73	107.85	2199.80	2075.54	17.70	
3800.00	3592.83	0.00	0.00	3631.83	106.58	106.58	108.67	2211.40	2083.68	17.31	
3900.00	3686.53	0.00	0.00	3725.53	109.42	109.42	109.47	2223.49	2092.34	16.95	

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
4000.00	3780.23	0.00	0.00	3819.23	112.27	112.27	110.27	2236.06	2101.51	16.62	
4100.00	3873.93	0.00	0.00	3912.93	115.12	115.12	111.06	2249.11	2111.20	16.31	
4200.00	3967.63	0.00	0.00	4006.63	117.96	117.96	111.84	2262.61	2121.39	16.02	
4300.00	4061.33	0.00	0.00	4100.33	120.81	120.81	112.61	2276.58	2132.07	15.75	
4400.00	4155.03	0.00	0.00	4194.03	123.65	123.65	113.38	2290.99	2142.94	15.47	
4500.00	4248.74	0.00	0.00	4287.74	126.50	126.50	114.13	2305.84	2154.27	15.21	
4600.00	4342.44	0.00	0.00	4381.44	129.34	129.34	114.88	2321.11	2166.07	14.97	
4700.00	4436.14	0.00	0.00	4475.14	132.19	132.19	115.61	2336.82	2178.31	14.74	
4800.00	4529.84	0.00	0.00	4568.84	135.03	135.03	116.34	2352.93	2191.01	14.53	
4900.00	4623.54	0.00	0.00	4662.54	137.88	137.88	117.06	2369.45	2204.14	14.33	
5000.00	4717.24	0.00	0.00	4756.24	140.73	140.73	117.77	2386.37	2217.70	14.15	
5100.00	4810.94	0.00	0.00	4849.94	143.57	143.57	118.47	2403.68	2231.68	13.98	
5200.00	4904.65	0.00	0.00	4943.65	146.42	146.42	119.17	2421.36	2246.08	13.81	
5300.00	4998.35	0.00	0.00	5037.35	149.26	149.26	119.85	2439.42	2260.86	13.66	
5400.00	5092.05	0.00	0.00	5131.05	152.11	152.11	120.52	2457.85	2276.02	13.52	
5500.00	5185.75	0.00	0.00	5224.75	154.95	154.95	121.19	2476.62	2291.58	13.38	
5600.00	5279.45	0.00	0.00	5318.45	157.80	157.80	121.84	2495.75	2307.51	13.26	
5700.00	5373.15	0.00	0.00	5412.15	160.65	160.65	122.49	2515.21	2323.71	13.13	
5800.00	5466.85	0.00	0.00	5505.85	163.49	163.49	123.12	2535.01	2340.05	13.00	
5900.00	5560.55	0.00	0.00	5599.55	166.34	166.34	123.75	2555.13	2356.74	12.88	
6000.00	5654.26	0.00	0.00	5693.26	169.18	169.18	124.37	2575.57	2373.78	12.76	
6100.00	5747.96	0.00	0.00	5786.96	172.03	172.03	124.98	2596.32	2391.15	12.65	
6200.00	5841.66	0.00	0.00	5880.66	174.87	174.87	125.58	2617.37	2408.85	12.55	
6300.00	5935.36	0.00	0.00	5974.36	177.72	177.72	126.17	2638.71	2426.88	12.46	
6400.00	6029.06	0.00	0.00	6068.06	180.56	180.56	126.76	2660.34	2445.21	12.37	
6500.00	6122.92	0.00	0.00	6161.92	183.41	183.41	120.49	2681.39	2463.02	12.28	
6600.00	6218.22	0.00	0.00	6257.22	186.31	186.31	96.92	2691.82	2470.32	12.15	
6700.00	6313.76	0.00	0.00	6352.76	189.21	189.21	72.21	2688.65	2464.09	11.97	
6800.00	6407.67	0.00	0.00	6446.67	192.06	192.06	54.29	2671.97	2444.47	11.75	
6900.00	6498.12	0.00	0.00	6537.12	194.81	194.81	43.46	2642.12	2411.85	11.47	
7000.00	6583.37	0.00	0.00	6622.37	197.40	197.40	37.25	2599.69	2366.88	11.17	
7100.00	6661.74	0.00	0.00	6700.74	199.78	199.78	33.94	2545.50	2310.42	10.83	
7200.00	6731.71	0.00	0.00	6770.71	201.90	201.90	32.66	2480.61	2243.55	10.46	
7300.00	6791.93	0.00	0.00	6830.93	203.73	203.73	33.17	2406.24	2167.33	10.07	
7400.00	6841.21	0.00	0.00	6880.21	205.23	205.23	35.72	2323.81	2083.20	9.66	
7500.00	6878.61	0.00	0.00	6917.61	206.36	206.36	41.30	2234.88	1992.96	9.24	
7600.00	6903.38	0.00	0.00	6942.38	207.12	207.12	52.68	2141.11	1898.30	8.82	
7700.00	6915.05	0.00	0.00	6954.05	207.47	207.47	76.40	2044.27	1800.94	8.40	
7800.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	1946.22	1702.62	7.99	
7900.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	1848.31	1604.49	7.58	
8000.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	1750.64	1506.66	7.18	
8100.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	1653.24	1409.09	6.77	
8200.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	1556.17	1311.82	6.37	
8300.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	1459.50	1214.97	5.97	
8400.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	1363.31	1118.56	5.57	
8500.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	1267.71	1022.83	5.18	
8600.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	1172.85	927.25	4.78	
8700.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	1078.91	832.20	4.37	
8800.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	986.16	738.27	3.98	
8900.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	894.98	646.08	3.60	
9000.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	805.89	555.74	3.22	
9100.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	719.68	466.68	2.84	
9200.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	637.50	382.31	2.50	SF(Low)
9300.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	561.14	301.50	2.16	SF(Low)
9400.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	493.31	228.95	1.87	SF(Low)
9500.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	437.98	168.25	1.62	SF(Low)
9600.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	400.37	125.77	1.46	SF(Med)
9700.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	385.71	108.55	1.39	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
9800.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	396.54	119.12	1.43	SF(Med)
9900.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	430.95	157.11	1.57	SF(Lo)
10000.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	483.93	214.82	1.80	SF(Lo)
10100.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	550.15	284.81	2.07	SF(Lo)
10200.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	625.41	363.76	2.39	SF(Lo)
10300.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	706.83	448.42	2.74	
10400.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	792.51	536.24	3.09	
10500.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	881.22	626.63	3.46	
10600.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	972.12	719.47	3.85	
10700.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	1064.66	813.55	4.24	
10800.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	1158.43	907.87	4.62	
10900.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	1253.17	1003.16	5.01	
11000.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	1348.67	1099.37	5.41	
11100.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	1444.78	1196.10	5.81	
11200.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	1541.38	1293.25	6.21	
11300.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	1638.39	1390.94	6.62	
11400.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	1735.74	1488.77	7.03	
11500.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	1833.38	1586.89	7.44	
11600.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	1931.26	1685.01	7.84	
11700.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	2029.34	1783.10	8.24	
11800.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	2127.60	1881.40	8.64	
11900.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	2226.02	1979.94	9.05	
12000.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	2324.57	2078.67	9.45	
12100.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	2423.24	2177.36	9.86	
12200.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	2522.02	2276.16	10.26	
12300.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	2620.89	2375.09	10.66	
12400.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	2719.84	2474.12	11.07	
12500.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	2818.87	2573.25	11.48	
12600.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	2917.96	2672.45	11.89	
12700.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	3017.11	2771.71	12.29	
12800.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	3116.32	2870.96	12.70	
12900.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	3215.57	2970.24	13.11	
13000.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	3314.87	3069.56	13.51	
13100.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	3414.21	3168.94	13.92	
13200.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	3513.59	3268.35	14.33	
13300.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	3613.00	3367.80	14.73	
13400.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	3712.45	3467.29	15.14	
13500.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	3811.92	3566.80	15.55	
13600.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	3911.42	3666.33	15.96	
13700.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	4010.94	3765.89	16.37	
13800.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	4110.49	3865.48	16.78	
13900.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	4210.06	3965.08	17.19	
14000.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	4309.65	4064.71	17.59	
14100.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	4409.26	4164.35	18.00	
14200.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	4508.88	4264.00	18.41	
14300.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	4608.53	4363.68	18.82	
14400.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	4708.18	4463.36	19.23	
14500.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	4807.85	4563.06	19.64	
14600.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	4907.54	4662.77	20.05	
14700.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	5007.24	4762.50	20.46	
14800.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	5106.94	4862.23	20.87	
14900.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	5206.66	4961.97	21.28	
15000.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	5306.39	5061.72	21.69	
15100.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	5406.13	5161.48	22.10	
15200.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	5505.88	5261.23	22.50	
15300.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	5605.64	5360.99	22.91	
15400.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	5705.41	5460.75	23.32	
15500.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	5805.19	5560.52	23.73	

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
15600.00	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	5904.97	5660.29	24.13	
15628.56	6916.00	0.00	0.00	6955.00	207.50	207.50	90.00	5933.47	5688.80	24.25	
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	257.21	7452.35	7451.62	10235.32	
100.00	75.00	0.00	0.00	100.00	1.14	1.14	257.21	7452.31	7450.34	3773.65	
200.00	175.00	0.00	0.00	200.00	2.78	2.78	257.21	7452.31	7448.47	1940.09	
300.00	275.00	0.00	0.00	300.00	5.82	5.82	257.21	7452.31	7445.21	1049.77	
400.00	375.00	0.00	0.00	400.00	8.86	8.86	257.21	7452.31	7441.95	719.56	
500.00	475.00	0.00	0.00	500.00	11.89	11.89	116.19	7452.50	7439.07	554.97	
600.00	574.93	0.00	0.00	599.93	14.93	14.93	116.18	7454.04	7437.40	447.81	
700.00	674.68	0.00	0.00	699.68	17.96	17.96	116.18	7457.13	7437.25	375.07	
800.00	774.13	0.00	0.00	799.13	20.98	20.98	116.16	7461.76	7438.62	322.51	
900.00	873.15	0.00	0.00	898.15	23.99	23.99	116.15	7467.94	7441.53	282.76	
1000.00	971.63	0.00	0.00	996.63	26.98	26.98	116.13	7475.69	7445.97	251.53	
1100.00	1069.44	0.00	0.00	1094.44	29.95	29.95	116.10	7485.00	7451.95	226.42	
1200.00	1166.46	0.00	0.00	1191.46	32.89	32.89	116.06	7495.90	7459.49	205.87	
1300.00	1262.58	0.00	0.00	1287.58	35.81	35.81	116.02	7508.39	7468.58	188.57	
1400.00	1357.68	0.00	0.00	1382.68	38.70	38.70	115.97	7522.49	7479.27	174.02	
1500.00	1451.70	0.00	0.00	1476.70	41.56	41.56	115.99	7538.16	7491.47	161.46	
1600.00	1545.40	0.00	0.00	1570.40	44.40	44.40	116.21	7554.34	7504.19	150.63	
1700.00	1639.10	0.00	0.00	1664.10	47.25	47.25	116.44	7570.65	7517.03	141.19	
1800.00	1732.80	0.00	0.00	1757.80	50.09	50.09	116.66	7587.09	7529.99	132.89	
1900.00	1826.50	0.00	0.00	1851.50	52.94	52.94	116.89	7603.65	7543.08	125.53	
2000.00	1920.20	0.00	0.00	1945.20	55.78	55.78	117.11	7620.33	7556.28	118.97	
2100.00	2013.90	0.00	0.00	2038.90	58.63	58.63	117.33	7637.14	7569.61	113.09	
2200.00	2107.61	0.00	0.00	2132.61	61.47	61.47	117.55	7654.07	7583.06	107.79	
2300.00	2201.31	0.00	0.00	2226.31	64.32	64.32	117.77	7671.13	7596.64	102.98	
2400.00	2295.01	0.00	0.00	2320.01	67.17	67.17	117.99	7688.30	7610.33	98.61	
2500.00	2388.71	0.00	0.00	2413.71	70.01	70.01	118.21	7705.59	7624.15	94.61	
2600.00	2482.41	0.00	0.00	2507.41	72.86	72.86	118.43	7723.01	7638.09	90.95	
2700.00	2576.11	0.00	0.00	2601.11	75.70	75.70	118.64	7740.54	7652.15	87.57	
2800.00	2669.81	0.00	0.00	2694.81	78.55	78.55	118.86	7758.19	7666.33	84.46	
2900.00	2763.51	0.00	0.00	2788.51	81.39	81.39	119.07	7775.95	7680.63	81.57	
3000.00	2857.22	0.00	0.00	2882.22	84.24	84.24	119.29	7793.83	7695.05	78.90	
3100.00	2950.92	0.00	0.00	2975.92	87.08	87.08	119.50	7811.83	7709.58	76.40	
3200.00	3044.62	0.00	0.00	3069.62	89.93	89.93	119.71	7829.94	7724.24	74.08	
3300.00	3138.32	0.00	0.00	3163.32	92.78	92.78	119.92	7848.17	7739.01	71.90	
3400.00	3232.02	0.00	0.00	3257.02	95.62	95.62	120.13	7866.51	7753.90	69.86	
3500.00	3325.72	0.00	0.00	3350.72	98.47	98.47	120.34	7884.96	7768.91	67.95	
3600.00	3419.42	0.00	0.00	3444.42	101.31	101.31	120.55	7903.52	7784.03	66.15	
3700.00	3513.13	0.00	0.00	3538.13	104.16	104.16	120.76	7922.19	7799.27	64.45	
3800.00	3606.83	0.00	0.00	3631.83	107.00	107.00	120.96	7940.97	7814.62	62.85	
3900.00	3700.53	0.00	0.00	3725.53	109.85	109.85	121.17	7959.86	7830.09	61.34	
4000.00	3794.23	0.00	0.00	3819.23	112.70	112.70	121.38	7978.86	7845.66	59.90	
4100.00	3887.93	0.00	0.00	3912.93	115.54	115.54	121.58	7997.97	7861.35	58.55	
4200.00	3981.63	0.00	0.00	4006.63	118.39	118.39	121.78	8017.18	7877.16	57.26	
4300.00	4075.33	0.00	0.00	4100.33	121.23	121.23	121.98	8036.50	7893.07	56.03	
4400.00	4169.03	0.00	0.00	4194.03	124.08	124.08	122.19	8055.92	7909.09	54.87	
4500.00	4262.74	0.00	0.00	4287.74	126.92	126.92	122.39	8075.45	7925.18	53.74	
4600.00	4356.44	0.00	0.00	4381.44	129.77	129.77	122.59	8095.08	7941.34	52.65	
4700.00	4450.14	0.00	0.00	4475.14	132.61	132.61	122.78	8114.82	7957.60	51.62	
4800.00	4543.84	0.00	0.00	4568.84	135.46	135.46	122.98	8134.65	7973.97	50.63	
4900.00	4637.54	0.00	0.00	4662.54	138.31	138.31	123.18	8154.59	7990.45	49.68	
5000.00	4731.24	0.00	0.00	4756.24	141.15	141.15	123.38	8174.63	8007.02	48.77	
5100.00	4824.94	0.00	0.00	4849.94	144.00	144.00	123.57	8194.77	8023.70	47.90	

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
5200.00	4918.65	0.00	0.00	4943.65	146.84	146.84	123.76	8215.01	8040.48	47.07	
5300.00	5012.35	0.00	0.00	5037.35	149.69	149.69	123.96	8235.34	8057.37	46.27	
5400.00	5106.05	0.00	0.00	5131.05	152.53	152.53	124.15	8255.78	8074.35	45.50	
5500.00	5199.75	0.00	0.00	5224.75	155.38	155.38	124.34	8276.31	8091.43	44.77	
5600.00	5293.45	0.00	0.00	5318.45	158.22	158.22	124.53	8296.93	8108.61	44.06	
5700.00	5387.15	0.00	0.00	5412.15	161.07	161.07	124.72	8317.66	8125.90	43.37	
5800.00	5480.85	0.00	0.00	5505.85	163.92	163.92	124.91	8338.48	8143.27	42.72	
5900.00	5574.55	0.00	0.00	5599.55	166.76	166.76	125.10	8359.39	8160.75	42.08	
6000.00	5668.26	0.00	0.00	5693.26	169.61	169.61	125.29	8380.39	8178.32	41.47	
6100.00	5761.96	0.00	0.00	5786.96	172.45	172.45	125.47	8401.49	8195.99	40.88	
6200.00	5855.66	0.00	0.00	5880.66	175.30	175.30	125.66	8422.68	8213.76	40.32	
6300.00	5949.36	0.00	0.00	5974.36	178.14	178.14	125.84	8443.96	8231.62	39.77	
6400.00	6043.06	0.00	0.00	6068.06	180.99	180.99	126.03	8465.33	8249.58	39.24	
6500.00	6136.92	0.00	0.00	6161.92	183.84	183.84	119.38	8485.93	8266.78	38.72	
6600.00	6232.22	0.00	0.00	6257.22	186.73	186.73	95.43	8495.70	8273.26	38.19	
6700.00	6327.76	0.00	0.00	6352.76	189.64	189.64	70.31	8491.63	8265.94	37.62	
6800.00	6421.67	0.00	0.00	6446.67	192.49	192.49	51.92	8473.83	8244.97	37.03	
6900.00	6512.12	0.00	0.00	6537.12	195.23	195.23	40.53	8442.62	8210.76	36.41	
7000.00	6597.37	0.00	0.00	6622.37	197.82	197.82	33.63	8398.61	8163.94	35.79	
7100.00	6675.74	0.00	0.00	6700.74	200.20	200.20	29.43	8342.65	8105.41	35.17	
7200.00	6745.71	0.00	0.00	6770.71	202.33	202.33	26.98	8275.82	8036.29	34.55	
7300.00	6805.93	0.00	0.00	6830.93	204.16	204.16	25.85	8199.39	7957.89	33.95	
7400.00	6855.21	0.00	0.00	6880.21	205.65	205.65	26.02	8114.83	7871.70	33.38	
7500.00	6892.61	0.00	0.00	6917.61	206.79	206.79	28.00	8023.77	7779.39	32.83	
7600.00	6917.38	0.00	0.00	6942.38	207.54	207.54	34.08	7927.97	7682.72	32.33	
7700.00	6929.05	0.00	0.00	6954.05	207.90	207.90	58.99	7829.26	7583.58	31.87	
7800.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	7729.53	7483.76	31.45	
7900.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	7629.77	7383.97	31.04	
8000.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	7530.02	7284.24	30.64	
8100.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	7430.28	7184.30	30.21	
8200.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	7330.54	7084.52	29.80	
8300.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	7230.81	6984.67	29.38	
8400.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	7131.09	6884.90	28.97	
8500.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	7031.37	6785.15	28.56	
8600.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	6931.66	6685.28	28.13	
8700.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	6831.97	6585.59	27.73	
8800.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	6732.28	6485.69	27.30	
8900.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	6632.60	6385.91	26.89	
9000.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	6532.93	6286.20	26.48	
9100.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	6433.27	6186.50	26.07	
9200.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	6333.62	6086.67	25.65	
9300.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	6233.98	5986.89	25.23	
9400.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	6134.35	5887.13	24.81	
9500.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	6034.74	5787.35	24.39	
9600.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	5935.14	5687.58	23.98	
9700.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	5835.55	5587.83	23.56	
9800.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	5735.98	5488.10	23.14	
9900.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	5636.42	5388.39	22.72	
10000.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	5536.88	5288.70	22.31	
10100.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	5437.35	5188.97	21.89	
10200.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	5337.84	5089.23	21.47	
10300.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	5238.36	4989.51	21.05	
10400.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	5138.89	4889.83	20.63	
10500.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	5039.44	4790.19	20.22	
10600.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	4940.01	4690.57	19.80	
10700.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	4840.61	4590.85	19.38	
10800.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	4741.24	4491.18	18.96	
10900.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	4641.89	4391.61	18.55	

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
11000.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	4542.57	4292.08	18.14	
11100.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	4443.27	4192.45	17.71	
11200.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	4344.02	4092.73	17.29	
11300.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	4244.79	3993.14	16.87	
11400.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	4145.61	3893.70	16.46	
11500.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	4046.46	3794.26	16.04	
11600.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	3947.36	3694.59	15.62	
11700.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	3848.30	3595.04	15.20	
11800.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	3749.30	3495.47	14.77	
11900.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	3650.34	3395.84	14.34	
12000.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	3551.45	3296.22	13.91	
12100.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	3452.62	3196.66	13.49	
12200.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	3353.86	3097.16	13.07	
12300.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	3255.17	2997.69	12.64	
12400.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	3156.57	2898.13	12.21	
12500.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	3058.06	2798.64	11.79	
12600.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	2959.65	2699.20	11.36	
12700.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	2861.35	2599.82	10.94	
12800.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	2763.17	2500.51	10.52	
12900.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	2665.13	2401.27	10.10	
13000.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	2567.23	2302.11	9.68	
13100.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	2469.51	2202.86	9.26	
13200.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	2371.97	2103.59	8.84	
13300.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	2274.65	2004.41	8.42	
13400.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	2177.58	1905.34	8.00	
13500.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	2080.78	1806.41	7.58	
13600.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	1984.29	1707.64	7.17	
13700.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	1888.18	1609.06	6.76	
13800.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	1792.48	1510.72	6.36	
13900.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	1697.29	1412.41	5.96	
14000.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	1602.68	1313.66	5.55	
14100.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	1508.76	1215.21	5.14	
14200.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	1415.68	1117.18	4.74	
14300.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	1323.61	1019.70	4.36	
14400.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	1232.78	922.90	3.98	
14500.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	1143.47	827.01	3.61	
14600.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	1056.08	730.85	3.25	
14700.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	971.13	635.85	2.90	
14800.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	889.32	543.29	2.57	
14900.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	811.59	452.43	2.26	SF(Lo)
15000.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	739.24	366.09	1.98	SF(Lo)
15100.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	673.99	285.13	1.73	SF(Lo)
15200.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	618.10	213.75	1.53	SF(Lo)
15300.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	574.32	154.98	1.37	SF(Med)
15400.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	545.55	114.76	1.27	SF(Med)
15500.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	534.24	98.21	1.23	SF(Med)
15600.00	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	541.48	108.00	1.25	SF(Med)
15628.56	6930.00	0.00	0.00	6955.00	207.92	207.92	90.00	546.90	115.17	1.27	SF(Med)
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	164.44	1651.16	1650.43	2267.78	
100.00	69.00	0.00	0.00	100.00	1.05	1.05	164.44	1650.86	1648.98	877.28	
200.00	169.00	0.00	0.00	200.00	2.60	2.60	164.44	1650.86	1647.21	451.81	
300.00	269.00	0.00	0.00	300.00	5.64	5.64	164.44	1650.86	1643.96	239.06	
400.00	369.00	0.00	0.00	400.00	8.68	8.68	164.44	1650.86	1640.71	162.53	
500.00	469.00	0.00	0.00	500.00	11.71	11.71	23.43	1650.46	1637.07	123.18	

5D Anti-Collision Report

Secondary Well: Goetzel I 29-14 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
600.00	568.93	0.00	0.00	599.93	14.75	14.75	23.50	1647.26	1630.65	99.17	
700.00	668.68	0.00	0.00	699.68	17.78	17.78	23.65	1640.87	1621.20	83.44	
800.00	768.13	0.00	0.00	799.13	20.80	20.80	23.88	1631.29	1608.40	71.25	
900.00	867.15	0.00	0.00	898.15	23.80	23.80	24.18	1618.56	1592.44	61.96	
1000.00	965.63	0.00	0.00	996.63	26.79	26.79	24.57	1602.70	1573.35	54.59	
1100.00	1063.44	0.00	0.00	1094.44	29.76	29.76	25.04	1583.76	1551.16	48.58	
1200.00	1160.46	0.00	0.00	1191.46	32.71	32.71	25.61	1561.77	1525.93	43.57	
1300.00	1256.58	0.00	0.00	1287.58	35.63	35.63	26.28	1536.81	1497.72	39.31	
1400.00	1351.68	0.00	0.00	1382.68	38.52	38.52	27.06	1508.92	1466.58	35.64	
1500.00	1445.70	0.00	0.00	1476.70	41.37	41.37	27.86	1478.31	1432.73	32.43	
1600.00	1539.40	0.00	0.00	1570.40	44.22	44.22	28.50	1447.10	1398.24	29.62	
1700.00	1633.10	0.00	0.00	1664.10	47.06	47.06	29.17	1416.05	1363.93	27.17	
1800.00	1726.80	0.00	0.00	1757.80	49.91	49.91	29.86	1385.20	1329.79	25.00	
1900.00	1820.50	0.00	0.00	1851.50	52.76	52.76	30.58	1354.54	1295.85	23.08	
2000.00	1914.20	0.00	0.00	1945.20	55.60	55.60	31.34	1324.09	1262.11	21.36	
2100.00	2007.90	0.00	0.00	2038.90	58.45	58.45	32.13	1293.87	1228.57	19.82	
2200.00	2101.61	0.00	0.00	2132.61	61.29	61.29	32.96	1263.89	1195.27	18.42	
2300.00	2195.31	0.00	0.00	2226.31	64.14	64.14	33.82	1234.17	1162.23	17.16	
2400.00	2289.01	0.00	0.00	2320.01	66.98	66.98	34.73	1204.73	1129.48	16.01	
2500.00	2382.71	0.00	0.00	2413.71	69.83	69.83	35.68	1175.59	1097.05	14.97	
2600.00	2476.41	0.00	0.00	2507.41	72.67	72.67	36.67	1146.77	1064.75	13.98	
2700.00	2570.11	0.00	0.00	2601.11	75.52	75.52	37.72	1118.31	1032.78	13.08	
2800.00	2663.81	0.00	0.00	2694.81	78.37	78.37	38.81	1090.21	1001.17	12.24	
2900.00	2757.51	0.00	0.00	2788.51	81.21	81.21	39.96	1062.53	969.94	11.48	
3000.00	2851.22	0.00	0.00	2882.22	84.06	84.06	41.17	1035.28	939.16	10.77	
3100.00	2944.92	0.00	0.00	2975.92	86.90	86.90	42.44	1008.51	908.87	10.12	
3200.00	3038.62	0.00	0.00	3069.62	89.75	89.75	43.78	982.25	879.13	9.53	
3300.00	3132.32	0.00	0.00	3163.32	92.59	92.59	45.18	956.54	849.98	8.98	
3400.00	3226.02	0.00	0.00	3257.02	95.44	95.44	46.65	931.44	821.25	8.45	
3500.00	3319.72	0.00	0.00	3350.72	98.29	98.29	48.20	906.98	793.01	7.96	
3600.00	3413.42	0.00	0.00	3444.42	101.13	101.13	49.83	883.23	765.47	7.50	
3700.00	3507.13	0.00	0.00	3538.13	103.98	103.98	51.54	860.24	738.73	7.08	
3800.00	3600.83	0.00	0.00	3631.83	106.82	106.82	53.34	838.08	712.90	6.69	
3900.00	3694.53	0.00	0.00	3725.53	109.67	109.67	55.22	816.81	688.07	6.34	
4000.00	3788.23	0.00	0.00	3819.23	112.51	112.51	57.19	796.51	663.84	6.00	
4100.00	3881.93	0.00	0.00	3912.93	115.36	115.36	59.26	777.24	640.58	5.69	
4200.00	3975.63	0.00	0.00	4006.63	118.20	118.20	61.41	759.10	618.58	5.40	
4300.00	4069.33	0.00	0.00	4100.33	121.05	121.05	63.66	742.15	597.93	5.15	
4400.00	4163.03	0.00	0.00	4194.03	123.90	123.90	66.00	726.49	578.52	4.91	
4500.00	4256.74	0.00	0.00	4287.74	126.74	126.74	68.43	712.20	560.02	4.68	
4600.00	4350.44	0.00	0.00	4381.44	129.59	129.59	70.95	699.37	543.22	4.48	
4700.00	4444.14	0.00	0.00	4475.14	132.43	132.43	73.54	688.07	528.27	4.31	
4800.00	4537.84	0.00	0.00	4568.84	135.28	135.28	76.20	678.38	514.77	4.15	
4900.00	4631.54	0.00	0.00	4662.54	138.12	138.12	78.92	670.38	502.70	4.00	
5000.00	4725.24	0.00	0.00	4756.24	140.97	140.97	81.70	664.12	492.74	3.88	
5100.00	4818.94	0.00	0.00	4849.94	143.81	143.81	84.52	659.65	484.88	3.77	
5200.00	4912.65	0.00	0.00	4943.65	146.66	146.66	87.36	657.01	478.08	3.67	
5300.00	5006.35	0.00	0.00	5037.35	149.51	149.51	90.21	656.22	473.61	3.59	
5400.00	5100.05	0.00	0.00	5131.05	152.35	152.35	93.07	657.28	471.53	3.54	
5500.00	5193.75	0.00	0.00	5224.75	155.20	155.20	95.91	660.20	470.73	3.48	
5600.00	5287.45	0.00	0.00	5318.45	158.04	158.04	98.72	664.94	471.95	3.45	
5700.00	5381.15	0.00	0.00	5412.15	160.89	160.89	101.49	671.47	475.46	3.43	
5800.00	5474.85	0.00	0.00	5505.85	163.73	163.73	104.21	679.73	480.53	3.41	
5900.00	5568.55	0.00	0.00	5599.55	166.58	166.58	106.86	689.67	486.91	3.40	
6000.00	5662.26	0.00	0.00	5693.26	169.42	169.42	109.44	701.20	495.36	3.41	
6100.00	5755.96	0.00	0.00	5786.96	172.27	172.27	111.94	714.26	505.78	3.43	
6200.00	5849.66	0.00	0.00	5880.66	175.12	175.12	114.35	728.76	517.10	3.44	
6300.00	5943.36	0.00	0.00	5974.36	177.96	177.96	116.68	744.62	529.80	3.47	

5D Anti-Collision Report

Secondary Well: Goetzel I 29-14 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
6400.00	6037.06	0.00	0.00	6068.06	180.81	180.81	118.92	761.75	544.13	3.50	
6500.00	6130.92	0.00	0.00	6161.92	183.66	183.66	114.27	779.20	559.05	3.54	
6600.00	6226.22	0.00	0.00	6257.22	186.55	186.55	92.24	786.81	563.99	3.53	
6700.00	6321.76	0.00	0.00	6352.76	189.45	189.45	68.93	781.55	555.69	3.46	
6800.00	6415.67	0.00	0.00	6446.67	192.30	192.30	52.43	763.50	535.00	3.34	
6900.00	6506.12	0.00	0.00	6537.12	195.05	195.05	43.18	733.08	502.44	3.18	
7000.00	6591.37	0.00	0.00	6622.37	197.64	197.64	38.89	690.98	458.86	2.98	
7100.00	6669.74	0.00	0.00	6700.74	200.02	200.02	38.11	638.21	403.90	2.72	
7200.00	6739.71	0.00	0.00	6770.71	202.15	202.15	40.36	576.11	340.50	2.45	SF(Lo)
7300.00	6799.93	0.00	0.00	6830.93	203.97	203.97	45.86	506.45	270.78	2.15	SF(Lo)
7400.00	6849.21	0.00	0.00	6880.21	205.47	205.47	55.02	431.57	195.27	1.83	SF(Lo)
7500.00	6886.61	0.00	0.00	6917.61	206.61	206.61	67.35	354.84	119.49	1.51	SF(Lo)
7600.00	6911.38	0.00	0.00	6942.38	207.36	207.36	79.93	281.72	47.96	1.21	SF(Med)
7700.00	6923.05	0.00	0.00	6954.05	207.71	207.71	88.45	222.34	-10.45	0.96	SF(Hi)
7800.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	194.71	-42.18	0.82	SF(Hi)
7900.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	215.12	-29.42	0.88	SF(Hi)
8000.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	273.21	25.44	1.10	SF(Med)
8100.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	350.72	102.62	1.41	SF(Med)
8200.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	437.46	189.21	1.76	SF(Lo)
8300.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	528.90	281.57	2.14	SF(Lo)
8400.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	622.98	375.47	2.52	
8500.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	718.65	471.45	2.91	
8600.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	815.37	568.61	3.30	
8700.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	912.79	666.73	3.71	
8800.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	1010.72	764.53	4.11	
8900.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	1109.02	862.80	4.50	
9000.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	1207.59	961.47	4.91	
9100.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	1306.39	1060.28	5.31	
9200.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	1405.35	1159.26	5.71	
9300.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	1504.45	1258.42	6.11	
9400.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	1603.66	1357.72	6.52	
9500.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	1702.97	1457.12	6.93	
9600.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	1802.35	1556.55	7.33	
9700.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	1901.80	1656.06	7.74	
9800.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	2001.30	1755.62	8.15	
9900.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	2100.85	1855.23	8.55	
10000.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	2200.44	1954.89	8.96	
10100.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	2300.06	2054.59	9.37	
10200.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	2399.72	2154.33	9.78	
10300.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	2499.40	2254.11	10.19	
10400.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	2599.11	2353.93	10.60	
10500.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	2698.84	2453.75	11.01	
10600.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	2798.59	2553.45	11.42	
10700.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	2898.36	2653.20	11.82	
10800.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	2998.14	2753.02	12.23	
10900.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	3097.93	2852.93	12.64	
11000.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	3197.74	2952.69	13.05	
11100.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	3297.56	3052.50	13.46	
11200.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	3397.40	3152.44	13.87	
11300.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	3497.24	3252.25	14.28	
11400.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	3597.09	3352.10	14.68	
11500.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	3696.94	3452.09	15.10	
11600.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	3796.81	3551.90	15.50	
11700.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	3896.68	3651.77	15.91	
11800.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	3996.56	3751.73	16.32	
11900.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	4096.44	3851.71	16.74	
12000.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	4196.33	3951.53	17.14	
12100.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	4296.23	4051.40	17.55	

5D Anti-Collision Report

Secondary Well: Goetzel I 29-14 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
12200.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	4396.13	4151.30	17.96	
12300.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	4496.03	4251.23	18.37	
12400.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	4595.94	4351.18	18.78	
12500.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	4695.85	4451.14	19.19	
12600.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	4795.77	4551.11	19.60	
12700.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	4895.69	4651.01	20.01	
12800.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	4995.61	4750.91	20.42	
12900.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	5095.54	4850.82	20.82	
13000.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	5195.46	4950.74	21.23	
13100.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	5295.40	5050.65	21.64	
13200.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	5395.33	5150.58	22.04	
13300.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	5495.27	5250.50	22.45	
13400.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	5595.20	5350.41	22.86	
13500.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	5695.14	5450.33	23.26	
13600.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	5795.09	5550.24	23.67	
13700.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	5895.03	5650.16	24.07	
13800.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	5994.98	5750.09	24.48	
13900.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	6094.93	5850.02	24.89	
14000.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	6194.88	5949.94	25.29	
14100.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	6294.83	6049.87	25.70	
14200.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	6394.78	6149.81	26.10	
14300.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	6494.73	6249.74	26.51	
14400.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	6594.69	6349.68	26.92	
14500.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	6694.65	6449.61	27.32	
14600.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	6794.61	6549.54	27.73	
14700.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	6894.57	6649.48	28.13	
14800.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	6994.53	6749.41	28.54	
14900.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	7094.49	6849.35	28.94	
15000.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	7194.45	6949.28	29.35	
15100.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	7294.42	7049.22	29.75	
15200.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	7394.38	7149.16	30.15	
15300.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	7494.35	7249.10	30.56	
15400.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	7594.31	7349.04	30.96	
15500.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	7694.28	7448.98	31.37	
15600.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	7794.25	7548.92	31.77	
15628.56	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	7822.80	7577.47	31.89	
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	236.31	3783.36	3782.63	5196.22	
100.00	70.00	0.00	0.00	100.00	1.06	1.06	236.31	3783.24	3781.34	1993.26	
200.00	170.00	0.00	0.00	200.00	2.63	2.63	236.31	3783.24	3779.56	1026.12	
300.00	270.00	0.00	0.00	300.00	5.67	5.67	236.31	3783.24	3776.30	544.99	
400.00	370.00	0.00	0.00	400.00	8.71	8.71	236.31	3783.24	3773.05	371.03	
500.00	470.00	0.00	0.00	500.00	11.74	11.74	95.29	3783.28	3770.02	285.20	
600.00	569.93	0.00	0.00	599.93	14.78	14.78	95.34	3783.61	3767.12	229.55	
700.00	669.68	0.00	0.00	699.68	17.81	17.81	95.43	3784.26	3764.54	191.89	
800.00	769.13	0.00	0.00	799.13	20.83	20.83	95.57	3785.27	3762.29	164.72	
900.00	868.15	0.00	0.00	898.15	23.83	23.83	95.75	3786.66	3760.39	144.17	
1000.00	966.63	0.00	0.00	996.63	26.82	26.82	95.97	3788.46	3758.87	128.05	
1100.00	1064.44	0.00	0.00	1094.44	29.79	29.79	96.23	3790.71	3757.77	115.05	
1200.00	1161.46	0.00	0.00	1191.46	32.74	32.74	96.53	3793.48	3757.14	104.37	
1300.00	1257.58	0.00	0.00	1287.58	35.66	35.66	96.86	3796.83	3757.04	95.43	
1400.00	1352.68	0.00	0.00	1382.68	38.55	38.55	97.22	3800.81	3757.54	87.86	
1500.00	1446.70	0.00	0.00	1476.70	41.40	41.40	97.63	3805.48	3758.71	81.36	
1600.00	1540.40	0.00	0.00	1570.40	44.25	44.25	98.12	3810.58	3760.29	75.76	
1700.00	1634.10	0.00	0.00	1664.10	47.09	47.09	98.61	3816.00	3762.17	70.89	

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
1800.00	1727.80	0.00	0.00	1757.80	49.94	49.94	99.10	3821.73	3764.37	66.63	
1900.00	1821.50	0.00	0.00	1851.50	52.79	52.79	99.58	3827.76	3766.87	62.86	
2000.00	1915.20	0.00	0.00	1945.20	55.63	55.63	100.06	3834.11	3769.69	59.51	
2100.00	2008.90	0.00	0.00	2038.90	58.48	58.48	100.55	3840.76	3772.81	56.52	
2200.00	2102.61	0.00	0.00	2132.61	61.32	61.32	101.03	3847.72	3776.25	53.84	
2300.00	2196.31	0.00	0.00	2226.31	64.17	64.17	101.50	3854.99	3780.00	51.41	
2400.00	2290.01	0.00	0.00	2320.01	67.01	67.01	101.98	3862.55	3784.06	49.21	
2500.00	2383.71	0.00	0.00	2413.71	69.86	69.86	102.46	3870.42	3788.43	47.21	
2600.00	2477.41	0.00	0.00	2507.41	72.71	72.71	102.93	3878.58	3793.11	45.38	
2700.00	2571.11	0.00	0.00	2601.11	75.55	75.55	103.40	3887.04	3798.03	43.67	
2800.00	2664.81	0.00	0.00	2694.81	78.40	78.40	103.87	3895.80	3803.21	42.07	
2900.00	2758.51	0.00	0.00	2788.51	81.24	81.24	104.34	3904.85	3808.68	40.60	
3000.00	2852.22	0.00	0.00	2882.22	84.09	84.09	104.81	3914.19	3814.44	39.24	
3100.00	2945.92	0.00	0.00	2975.92	86.93	86.93	105.27	3923.81	3820.51	37.98	
3200.00	3039.62	0.00	0.00	3069.62	89.78	89.78	105.73	3933.73	3826.86	36.81	
3300.00	3133.32	0.00	0.00	3163.32	92.62	92.62	106.19	3943.93	3833.51	35.72	
3400.00	3227.02	0.00	0.00	3257.02	95.47	95.47	106.65	3954.41	3840.45	34.70	
3500.00	3320.72	0.00	0.00	3350.72	98.32	98.32	107.11	3965.17	3847.68	33.75	
3600.00	3414.42	0.00	0.00	3444.42	101.16	101.16	107.56	3976.21	3855.20	32.86	
3700.00	3508.13	0.00	0.00	3538.13	104.01	104.01	108.01	3987.52	3863.00	32.02	
3800.00	3601.83	0.00	0.00	3631.83	106.85	106.85	108.46	3999.11	3871.08	31.24	
3900.00	3695.53	0.00	0.00	3725.53	109.70	109.70	108.91	4010.97	3879.45	30.50	
4000.00	3789.23	0.00	0.00	3819.23	112.54	112.54	109.35	4023.10	3888.10	29.80	
4100.00	3882.93	0.00	0.00	3912.93	115.39	115.39	109.79	4035.49	3897.03	29.15	
4200.00	3976.63	0.00	0.00	4006.63	118.23	118.23	110.23	4048.15	3906.24	28.53	
4300.00	4070.33	0.00	0.00	4100.33	121.08	121.08	110.67	4061.06	3915.72	27.94	
4400.00	4164.03	0.00	0.00	4194.03	123.93	123.93	111.11	4074.24	3925.47	27.39	
4500.00	4257.74	0.00	0.00	4287.74	126.77	126.77	111.54	4087.67	3935.49	26.86	
4600.00	4351.44	0.00	0.00	4381.44	129.62	129.62	111.97	4101.35	3945.78	26.36	
4700.00	4445.14	0.00	0.00	4475.14	132.46	132.46	112.39	4115.29	3956.34	25.89	
4800.00	4538.84	0.00	0.00	4568.84	135.31	135.31	112.82	4129.47	3967.08	25.43	
4900.00	4632.54	0.00	0.00	4662.54	138.15	138.15	113.24	4143.91	3977.97	24.97	
5000.00	4726.24	0.00	0.00	4756.24	141.00	141.00	113.66	4158.58	3989.12	24.54	
5100.00	4819.94	0.00	0.00	4849.94	143.84	143.84	114.08	4173.49	4000.53	24.13	
5200.00	4913.65	0.00	0.00	4943.65	146.69	146.69	114.49	4188.65	4012.18	23.74	
5300.00	5007.35	0.00	0.00	5037.35	149.54	149.54	114.90	4204.03	4024.07	23.36	
5400.00	5101.05	0.00	0.00	5131.05	152.38	152.38	115.31	4219.66	4036.22	23.00	
5500.00	5194.75	0.00	0.00	5224.75	155.23	155.23	115.71	4235.51	4048.60	22.66	
5600.00	5288.45	0.00	0.00	5318.45	158.07	158.07	116.12	4251.59	4061.22	22.33	
5700.00	5382.15	0.00	0.00	5412.15	160.92	160.92	116.52	4267.89	4074.09	22.02	
5800.00	5475.85	0.00	0.00	5505.85	163.76	163.76	116.91	4284.42	4087.19	21.72	
5900.00	5569.55	0.00	0.00	5599.55	166.61	166.61	117.31	4301.17	4100.52	21.44	
6000.00	5663.26	0.00	0.00	5693.26	169.46	169.46	117.70	4318.13	4114.08	21.16	
6100.00	5756.96	0.00	0.00	5786.96	172.30	172.30	118.09	4335.31	4127.87	20.90	
6200.00	5850.66	0.00	0.00	5880.66	175.15	175.15	118.47	4352.70	4141.89	20.65	
6300.00	5944.36	0.00	0.00	5974.36	177.99	177.99	118.86	4370.31	4156.13	20.41	
6400.00	6038.06	0.00	0.00	6068.06	180.84	180.84	119.24	4388.12	4170.59	20.17	
6500.00	6131.92	0.00	0.00	6161.92	183.69	183.69	112.84	4405.27	4184.43	19.95	
6600.00	6227.22	0.00	0.00	6257.22	186.58	186.58	89.14	4411.67	4187.65	19.69	
6700.00	6322.76	0.00	0.00	6352.76	189.48	189.48	64.13	4404.36	4177.20	19.39	
6800.00	6416.67	0.00	0.00	6446.67	192.34	192.34	45.72	4383.45	4153.27	19.04	
6900.00	6507.12	0.00	0.00	6537.12	195.08	195.08	34.17	4349.33	4116.27	18.66	
7000.00	6592.37	0.00	0.00	6622.37	197.67	197.67	26.94	4302.63	4066.88	18.25	
7100.00	6670.74	0.00	0.00	6700.74	200.05	200.05	22.18	4244.21	4006.03	17.82	
7200.00	6740.71	0.00	0.00	6770.71	202.18	202.18	18.84	4175.18	3934.85	17.37	
7300.00	6800.93	0.00	0.00	6830.93	204.00	204.00	16.31	4096.84	3854.68	16.92	
7400.00	6850.21	0.00	0.00	6880.21	205.50	205.50	14.10	4010.69	3767.04	16.46	
7500.00	6887.61	0.00	0.00	6917.61	206.64	206.64	11.58	3918.38	3673.61	16.01	

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
7600.00	6912.38	0.00	0.00	6942.38	207.39	207.39	6.81	3821.66	3576.10	15.56	
7700.00	6924.05	0.00	0.00	6954.05	207.74	207.74	339.23	3722.43	3476.48	15.14	
7800.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	3622.50	3376.53	14.73	
7900.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	3522.56	3276.58	14.32	
8000.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	3422.63	3176.64	13.91	
8100.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	3322.70	3076.77	13.51	
8200.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	3222.77	2976.86	13.11	
8300.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	3122.85	2877.04	12.70	
8400.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	3022.94	2777.01	12.29	
8500.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	2923.03	2677.13	11.89	
8600.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	2823.13	2577.23	11.48	
8700.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	2723.23	2477.44	11.08	
8800.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	2623.35	2377.49	10.67	
8900.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	2523.47	2277.65	10.27	
9000.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	2423.60	2177.85	9.86	
9100.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	2323.75	2078.06	9.46	
9200.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	2223.90	1978.28	9.05	
9300.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	2124.07	1878.50	8.65	
9400.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	2024.26	1778.73	8.24	
9500.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	1924.47	1678.95	7.84	
9600.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	1824.70	1579.18	7.43	
9700.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	1724.96	1479.43	7.03	
9800.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	1625.25	1379.70	6.62	
9900.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	1525.57	1280.01	6.21	
10000.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	1425.94	1180.36	5.81	
10100.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	1326.37	1080.78	5.40	
10200.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	1226.87	981.28	5.00	
10300.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	1127.46	881.90	4.59	
10400.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	1028.16	782.67	4.19	
10500.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	929.01	683.66	3.79	
10600.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	830.06	584.57	3.38	
10700.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	731.40	485.74	2.98	
10800.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	633.16	387.42	2.58	
10900.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	535.57	288.39	2.17	SF(Lo)
11000.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	439.07	189.34	1.76	SF(Lo)
11100.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	344.58	90.85	1.36	SF(Med)
11200.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	254.32	-10.21	0.96	SF(Hi)
11300.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	175.00	-112.23	0.61	SF(Hi)
11400.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	128.74	-190.73	0.40	SF(Hi)
11500.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	150.07	-163.73	0.48	SF(Hi)
11600.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	220.15	-70.95	0.76	SF(Hi)
11700.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	307.27	30.14	1.11	SF(Med)
11800.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	400.45	132.04	1.49	SF(Med)
11900.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	496.29	232.28	1.88	SF(Lo)
12000.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	593.51	332.83	2.28	SF(Lo)
12100.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	691.52	433.03	2.68	
12200.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	790.03	533.32	3.08	
12300.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	888.87	633.66	3.48	
12400.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	987.95	733.64	3.88	
12500.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	1087.19	833.45	4.28	
12600.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	1186.56	933.22	4.68	
12700.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	1286.03	1033.04	5.08	
12800.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	1385.58	1132.90	5.48	
12900.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	1485.19	1232.80	5.88	
13000.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	1584.84	1332.71	6.29	
13100.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	1684.54	1432.64	6.69	
13200.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	1784.27	1532.59	7.09	
13300.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	1884.03	1632.54	7.49	

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
13400.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	1983.81	1732.50	7.89	
13500.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	2083.62	1832.47	8.30	
13600.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	2183.44	1932.44	8.70	
13700.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	2283.28	2032.41	9.10	
13800.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	2383.13	2132.38	9.50	
13900.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	2482.99	2232.31	9.90	
14000.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	2582.87	2332.25	10.31	
14100.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	2682.75	2432.19	10.71	
14200.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	2782.64	2532.13	11.11	
14300.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	2882.54	2632.08	11.51	
14400.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	2982.45	2732.03	11.91	
14500.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	3082.36	2831.98	12.31	
14600.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	3182.27	2931.93	12.71	
14700.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	3282.20	3031.88	13.11	
14800.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	3382.12	3131.83	13.51	
14900.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	3482.06	3231.79	13.91	
15000.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	3581.99	3331.75	14.31	
15100.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	3681.93	3431.71	14.71	
15200.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	3781.87	3531.66	15.11	
15300.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	3881.82	3631.62	15.52	
15400.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	3981.76	3731.59	15.92	
15500.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	4081.71	3831.55	16.32	
15600.00	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	4181.67	3931.51	16.72	
15628.56	6925.00	0.00	0.00	6955.00	207.77	207.77	270.00	4210.22	3960.06	16.83	

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	144.37	2033.92	2033.15	2642.27	
100.00	69.00	0.00	0.00	100.00	1.05	1.05	144.37	2033.68	2031.76	1057.24	
200.00	169.00	0.00	0.00	200.00	2.60	2.60	144.37	2033.68	2029.98	550.26	
300.00	269.00	0.00	0.00	300.00	5.64	5.64	144.37	2033.68	2026.73	292.70	
400.00	369.00	0.00	0.00	400.00	8.68	8.68	144.37	2033.68	2023.48	199.38	
500.00	469.00	0.00	0.00	500.00	11.71	11.71	3.35	2033.24	2019.80	151.27	
600.00	568.93	0.00	0.00	599.93	14.75	14.75	3.36	2029.76	2013.27	123.13	
700.00	668.68	0.00	0.00	699.68	17.78	17.78	3.38	2022.80	2003.08	102.62	
800.00	768.13	0.00	0.00	799.13	20.80	20.80	3.41	2012.36	1989.42	87.73	
900.00	867.15	0.00	0.00	898.15	23.80	23.80	3.45	1998.47	1972.31	76.39	
1000.00	965.63	0.00	0.00	996.63	26.79	26.79	3.50	1981.14	1951.75	67.42	
1100.00	1063.44	0.00	0.00	1094.44	29.76	29.76	3.57	1960.38	1927.80	60.16	
1200.00	1160.46	0.00	0.00	1191.46	32.71	32.71	3.64	1936.24	1900.46	54.12	
1300.00	1256.58	0.00	0.00	1287.58	35.63	35.63	3.73	1908.73	1869.78	49.01	
1400.00	1351.68	0.00	0.00	1382.68	38.52	38.52	3.84	1877.89	1835.80	44.62	
1500.00	1445.70	0.00	0.00	1476.70	41.37	41.37	3.94	1843.89	1798.67	40.78	
1600.00	1539.40	0.00	0.00	1570.40	44.22	44.22	4.02	1809.03	1760.70	37.43	
1700.00	1633.10	0.00	0.00	1664.10	47.06	47.06	4.10	1774.18	1722.74	34.49	
1800.00	1726.80	0.00	0.00	1757.80	49.91	49.91	4.18	1739.33	1684.78	31.88	
1900.00	1820.50	0.00	0.00	1851.50	52.76	52.76	4.27	1704.48	1646.80	29.55	
2000.00	1914.20	0.00	0.00	1945.20	55.60	55.60	4.36	1669.64	1608.82	27.45	
2100.00	2007.90	0.00	0.00	2038.90	58.45	58.45	4.45	1634.80	1570.83	25.56	
2200.00	2101.61	0.00	0.00	2132.61	61.29	61.29	4.55	1599.97	1532.85	23.84	
2300.00	2195.31	0.00	0.00	2226.31	64.14	64.14	4.65	1565.14	1494.87	22.27	
2400.00	2289.01	0.00	0.00	2320.01	66.98	66.98	4.75	1530.31	1456.89	20.84	
2500.00	2382.71	0.00	0.00	2413.71	69.83	69.83	4.86	1495.49	1418.91	19.53	
2600.00	2476.41	0.00	0.00	2507.41	72.67	72.67	4.98	1460.67	1380.94	18.32	
2700.00	2570.11	0.00	0.00	2601.11	75.52	75.52	5.10	1425.86	1342.97	17.20	
2800.00	2663.81	0.00	0.00	2694.81	78.37	78.37	5.23	1391.06	1305.00	16.16	
2900.00	2757.51	0.00	0.00	2788.51	81.21	81.21	5.36	1356.26	1267.04	15.20	

5D Anti-Collision Report

Secondary Well: Goetzel 3-29 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											Risk
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	
3000.00	2851.22	0.00	0.00	2882.22	84.06	84.06	5.51	1321.47	1229.08	14.30	
3100.00	2944.92	0.00	0.00	2975.92	86.90	86.90	5.66	1286.68	1191.12	13.46	
3200.00	3038.62	0.00	0.00	3069.62	89.75	89.75	5.81	1251.91	1153.17	12.68	
3300.00	3132.32	0.00	0.00	3163.32	92.59	92.59	5.98	1217.14	1115.23	11.94	
3400.00	3226.02	0.00	0.00	3257.02	95.44	95.44	6.16	1182.38	1077.29	11.25	
3500.00	3319.72	0.00	0.00	3350.72	98.29	98.29	6.34	1147.64	1039.37	10.60	
3600.00	3413.42	0.00	0.00	3444.42	101.13	101.13	6.54	1112.90	1001.45	9.99	
3700.00	3507.13	0.00	0.00	3538.13	103.98	103.98	6.75	1078.18	963.54	9.41	
3800.00	3600.83	0.00	0.00	3631.83	106.82	106.82	6.98	1043.47	925.65	8.86	
3900.00	3694.53	0.00	0.00	3725.53	109.67	109.67	7.22	1008.77	887.76	8.34	
4000.00	3788.23	0.00	0.00	3819.23	112.51	112.51	7.48	974.10	849.89	7.84	
4100.00	3881.93	0.00	0.00	3912.93	115.36	115.36	7.75	939.44	812.04	7.37	
4200.00	3975.63	0.00	0.00	4006.63	118.20	118.20	8.05	904.80	774.21	6.93	
4300.00	4069.33	0.00	0.00	4100.33	121.05	121.05	8.37	870.19	736.40	6.50	
4400.00	4163.03	0.00	0.00	4194.03	123.90	123.90	8.72	835.60	698.59	6.10	
4500.00	4256.74	0.00	0.00	4287.74	126.74	126.74	9.10	801.04	660.81	5.71	
4600.00	4350.44	0.00	0.00	4381.44	129.59	129.59	9.51	766.51	623.06	5.34	
4700.00	4444.14	0.00	0.00	4475.14	132.43	132.43	9.96	732.03	585.34	4.99	
4800.00	4537.84	0.00	0.00	4568.84	135.28	135.28	10.46	697.58	547.68	4.65	
4900.00	4631.54	0.00	0.00	4662.54	138.12	138.12	11.00	663.19	510.06	4.33	
5000.00	4725.24	0.00	0.00	4756.24	140.97	140.97	11.61	628.86	472.51	4.02	
5100.00	4818.94	0.00	0.00	4849.94	143.81	143.81	12.29	594.60	435.05	3.73	
5200.00	4912.65	0.00	0.00	4943.65	146.66	146.66	13.04	560.42	397.68	3.44	
5300.00	5006.35	0.00	0.00	5037.35	149.51	149.51	13.90	526.34	360.41	3.17	
5400.00	5100.05	0.00	0.00	5131.05	152.35	152.35	14.87	492.37	323.25	2.91	
5500.00	5193.75	0.00	0.00	5224.75	155.20	155.20	15.99	458.55	285.79	2.65	
5600.00	5287.45	0.00	0.00	5318.45	158.04	158.04	17.28	424.91	248.48	2.41	SF(Lo)
5700.00	5381.15	0.00	0.00	5412.15	160.89	160.89	18.78	391.50	211.40	2.17	SF(Lo)
5800.00	5474.85	0.00	0.00	5505.85	163.73	163.73	20.57	358.38	174.56	1.95	SF(Lo)
5900.00	5568.55	0.00	0.00	5599.55	166.58	166.58	22.71	325.63	138.10	1.74	SF(Lo)
6000.00	5662.26	0.00	0.00	5693.26	169.42	169.42	25.31	293.39	102.35	1.54	SF(Lo)
6100.00	5755.96	0.00	0.00	5786.96	172.27	172.27	28.54	261.84	65.95	1.34	SF(Med)
6200.00	5849.66	0.00	0.00	5880.66	175.12	175.12	32.60	231.26	30.67	1.15	SF(Med)
6300.00	5943.36	0.00	0.00	5974.36	177.96	177.96	37.82	202.10	-3.61	0.98	SF(Hi)
6400.00	6037.06	0.00	0.00	6068.06	180.81	180.81	44.63	175.06	-36.39	0.83	SF(Hi)
6500.00	6130.92	0.00	0.00	6161.92	183.66	183.66	45.84	151.02	-67.25	0.69	SF(Hi)
6600.00	6226.22	0.00	0.00	6257.22	186.55	186.55	27.25	126.67	-97.24	0.57	SF(Hi)
6700.00	6321.76	0.00	0.00	6352.76	189.45	189.45	3.62	98.29	-129.41	0.43	SF(Hi)
6800.00	6415.67	0.00	0.00	6446.67	192.30	192.30	338.16	64.61	-165.21	0.28	SF(Hi); CC (Lo)
6900.00	6506.12	0.00	0.00	6537.12	195.05	195.05	288.45	33.33	-185.37	0.15	SF(Hi); CC (Lo)
7000.00	6591.37	0.00	0.00	6622.37	197.64	197.64	218.21	53.55	-179.02	0.23	SF(Hi); CC (Lo)
7100.00	6669.74	0.00	0.00	6700.74	200.02	200.02	194.53	111.71	-128.55	0.46	SF(Hi)
7200.00	6739.71	0.00	0.00	6770.71	202.15	202.15	184.66	182.56	-59.91	0.75	SF(Hi)
7300.00	6799.93	0.00	0.00	6830.93	203.97	203.97	178.29	262.29	17.83	1.07	SF(Med)
7400.00	6849.21	0.00	0.00	6880.21	205.47	205.47	172.29	349.14	103.34	1.42	SF(Med)
7500.00	6886.61	0.00	0.00	6917.61	206.61	206.61	164.13	441.55	194.58	1.79	SF(Lo)
7600.00	6911.38	0.00	0.00	6942.38	207.36	207.36	148.49	537.87	290.20	2.17	SF(Lo)
7700.00	6923.05	0.00	0.00	6954.05	207.71	207.71	110.74	636.37	388.51	2.57	
7800.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	735.45	487.85	2.97	
7900.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	834.74	587.46	3.38	
8000.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	934.17	687.04	3.78	
8100.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	1033.72	786.75	4.19	
8200.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	1133.34	886.71	4.60	
8300.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	1233.03	986.49	5.00	
8400.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	1332.76	1086.33	5.41	
8500.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	1432.53	1186.28	5.82	

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
8600.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	1532.33	1286.16	6.22	
8700.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	1632.16	1386.22	6.64	
8800.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	1732.00	1486.05	7.04	
8900.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	1831.87	1586.02	7.45	
9000.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	1931.74	1686.04	7.86	
9100.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	2031.63	1786.08	8.27	
9200.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	2131.53	1886.04	8.68	
9300.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	2231.44	1985.99	9.09	
9400.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	2331.35	2085.96	9.50	
9500.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	2431.27	2185.91	9.91	
9600.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	2531.20	2285.85	10.32	
9700.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	2631.14	2385.80	10.72	
9800.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	2731.08	2485.70	11.13	
9900.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	2831.02	2585.61	11.54	
10000.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	2930.97	2685.54	11.94	
10100.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	3030.92	2785.48	12.35	
10200.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	3130.87	2885.43	12.76	
10300.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	3230.83	2985.40	13.16	
10400.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	3330.79	3085.40	13.57	
10500.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	3430.75	3185.44	13.99	
10600.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	3530.71	3285.31	14.39	
10700.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	3630.68	3385.23	14.79	
10800.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	3730.65	3485.20	15.20	
10900.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	3830.62	3585.26	15.61	
11000.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	3930.59	3685.20	16.02	
11100.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	4030.56	3785.12	16.42	
11200.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	4130.53	3885.16	16.83	
11300.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	4230.51	3985.07	17.24	
11400.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	4330.48	4084.96	17.64	
11500.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	4430.46	4184.98	18.05	
11600.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	4530.44	4284.93	18.45	
11700.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	4630.42	4384.83	18.85	
11800.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	4730.40	4484.83	19.26	
11900.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	4830.38	4584.88	19.68	
12000.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	4930.36	4684.88	20.08	
12100.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	5030.34	4784.76	20.48	
12200.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	5130.33	4884.69	20.89	
12300.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	5230.31	4984.65	21.29	
12400.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	5330.29	5084.62	21.70	
12500.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	5430.28	5184.61	22.10	
12600.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	5530.26	5284.61	22.51	
12700.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	5630.25	5384.61	22.92	
12800.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	5730.24	5484.62	23.33	
12900.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	5830.22	5584.61	23.74	
13000.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	5930.21	5684.59	24.14	
13100.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	6030.20	5784.53	24.55	
13200.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	6130.19	5884.48	24.95	
13300.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	6230.18	5984.43	25.35	
13400.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	6330.16	6084.39	25.76	
13500.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	6430.15	6184.35	26.16	
13600.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	6530.14	6284.32	26.56	
13700.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	6630.13	6384.28	26.97	
13800.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	6730.12	6484.25	27.37	
13900.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	6830.11	6584.22	27.78	
14000.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	6930.10	6684.19	28.18	
14100.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	7030.10	6784.16	28.58	
14200.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	7130.09	6884.13	28.99	
14300.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	7230.08	6984.09	29.39	

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
14400.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	7330.07	7084.06	29.80	
14500.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	7430.06	7184.02	30.20	
14600.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	7530.05	7283.99	30.60	
14700.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	7630.05	7383.95	31.00	
14800.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	7730.04	7483.92	31.41	
14900.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	7830.03	7583.89	31.81	
15000.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	7930.03	7683.85	32.21	
15100.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	8030.02	7783.82	32.62	
15200.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	8130.01	7883.79	33.02	
15300.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	8230.00	7983.76	33.42	
15400.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	8330.00	8083.72	33.82	
15500.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	8429.99	8183.69	34.23	
15600.00	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	8529.99	8283.66	34.63	
15628.56	6924.00	0.00	0.00	6955.00	207.74	207.74	90.00	8558.55	8312.21	34.74	
Secondary Well: Goetzel 32C-30-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	200.01	199.28	272.75	
100.00	100.00	0.00	0.00	100.00	0.11	0.11	0.03	200.01	199.05	209.66	
200.00	200.00	0.00	0.00	200.00	0.34	0.34	0.03	200.01	198.61	142.51	
300.00	300.00	0.00	0.00	300.00	0.56	0.56	0.03	200.01	198.16	107.93	
400.00	400.00	0.00	0.00	400.00	0.79	0.79	0.03	200.01	197.71	86.86	
500.00	500.00	0.00	0.00	500.00	1.01	1.01	218.93	200.35	197.61	73.13	
600.00	599.93	0.00	0.00	599.93	1.24	1.24	218.35	203.07	199.92	64.46	
700.00	699.68	0.00	0.00	699.68	1.46	1.46	217.23	208.59	205.01	58.23	
800.00	799.13	0.00	0.00	799.13	1.68	1.68	215.66	217.02	212.99	53.83	
900.00	898.15	0.00	0.00	898.15	1.91	1.91	213.76	228.50	224.00	50.82	
1000.00	996.63	0.00	0.00	996.63	2.13	2.13	211.65	243.18	238.20	48.82	
1100.00	1094.44	0.00	0.00	1094.44	2.35	2.35	209.45	261.19	255.71	47.68	
1200.00	1191.46	0.00	0.00	1191.46	2.57	2.57	207.25	282.62	276.65	47.32	
1300.00	1287.58	0.00	0.00	1287.58	2.78	2.78	205.13	307.54	301.07	47.49	
1400.00	1382.68	0.00	0.00	1382.68	3.00	3.00	203.14	335.98	328.98	48.01	
1500.00	1476.70	0.00	0.00	1476.70	3.21	3.21	201.24	367.79	360.27	48.93	
1600.00	1570.40	0.00	0.00	1570.40	3.42	3.42	199.45	400.79	392.76	49.93	
1700.00	1664.10	0.00	0.00	1664.10	3.63	3.63	197.92	434.09	425.57	50.95	
1800.00	1757.80	0.00	0.00	1757.80	3.84	3.84	196.61	467.62	458.61	51.87	
1900.00	1853.51	1.07	78.00	1853.51	4.05	4.05	195.51	501.25	491.72	52.59	
2000.00	1951.62	3.03	78.00	1951.55	4.26	4.25	194.86	534.36	524.31	53.20	
2100.00	2050.51	5.01	78.00	2050.19	4.47	4.44	194.63	566.77	556.18	53.51	
2200.00	2149.95	7.00	78.00	2149.08	4.69	4.64	194.77	598.44	587.30	53.74	
2300.00	2249.70	8.99	78.00	2247.86	4.93	4.83	195.22	629.38	617.63	53.59	
2400.00	2349.53	10.99	78.00	2346.16	5.19	5.03	195.93	659.65	647.26	53.24	
2500.00	2449.18	12.98	78.00	2443.64	5.49	5.22	196.87	689.35	676.26	52.66	
2600.00	2548.43	14.97	78.00	2539.95	5.83	5.42	198.00	718.61	704.73	51.79	
2700.00	2647.04	16.94	78.00	2634.75	6.21	5.62	199.31	747.58	732.85	50.78	
2800.00	2741.74	17.19	78.00	2725.23	6.63	5.84	200.62	776.59	760.98	49.77	
2900.00	2835.94	17.19	78.00	2815.22	7.07	6.07	201.83	805.95	789.42	48.77	
3000.00	2930.14	17.19	78.00	2905.22	7.53	6.30	202.96	835.62	818.13	47.78	
3100.00	3024.34	17.19	78.00	2995.21	8.00	6.54	204.02	865.58	847.11	46.87	
3200.00	3118.54	17.19	78.00	3085.20	8.49	6.78	205.00	895.80	876.32	46.00	
3300.00	3212.74	17.19	78.00	3175.20	9.00	7.03	205.93	926.25	905.74	45.18	
3400.00	3306.94	17.19	78.00	3265.19	9.51	7.28	206.79	956.90	935.37	44.44	
3500.00	3401.14	17.19	78.00	3355.18	10.03	7.53	207.60	987.74	965.17	43.75	
3600.00	3495.34	17.19	78.00	3445.18	10.56	7.79	208.37	1018.76	995.11	43.08	
3700.00	3589.54	17.19	78.00	3535.17	11.10	8.05	209.09	1049.93	1025.19	42.44	
3800.00	3683.74	17.19	78.00	3625.17	11.64	8.30	209.76	1081.25	1055.42	41.86	
3900.00	3777.94	17.19	78.00	3715.16	12.18	8.57	210.40	1112.69	1085.77	41.32	

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
4000.00	3872.14	17.19	78.00	3805.15	12.73	8.83	211.01	1144.26	1116.24	40.83	
4100.00	3966.34	17.19	78.00	3895.15	13.28	9.09	211.58	1175.94	1146.81	40.38	
4200.00	4060.54	17.19	78.00	3985.14	13.84	9.36	212.13	1207.71	1177.49	39.96	
4300.00	4154.74	17.19	78.00	4075.14	14.40	9.63	212.64	1239.59	1208.26	39.57	
4400.00	4248.94	17.19	78.00	4165.13	14.96	9.90	213.13	1271.55	1239.11	39.20	
4500.00	4343.14	17.19	78.00	4255.12	15.52	10.17	213.60	1303.59	1270.05	38.87	
4600.00	4437.34	17.19	78.00	4345.12	16.09	10.44	214.04	1335.70	1301.06	38.56	
4700.00	4531.54	17.19	78.00	4435.11	16.66	10.71	214.47	1367.89	1332.14	38.26	
4800.00	4625.74	17.19	78.00	4525.10	17.23	10.98	214.87	1400.13	1363.28	37.99	
4900.00	4719.94	17.19	78.00	4615.10	17.80	11.26	215.26	1432.44	1394.48	37.73	
5000.00	4814.14	17.19	78.00	4705.09	18.37	11.53	215.63	1464.81	1425.74	37.49	
5100.00	4908.34	17.19	78.00	4795.09	18.94	11.81	215.98	1497.23	1457.03	37.25	
5200.00	5002.54	17.19	78.00	4885.08	19.51	12.08	216.32	1529.69	1488.37	37.01	
5300.00	5096.74	17.19	78.00	4975.07	20.09	12.36	216.65	1562.21	1519.75	36.79	
5400.00	5190.94	17.19	78.00	5065.07	20.67	12.64	216.96	1594.77	1551.17	36.58	
5500.00	5285.13	17.19	78.00	5155.06	21.24	12.92	217.26	1627.36	1582.64	36.38	
5600.00	5379.33	17.19	78.00	5245.05	21.82	13.19	217.54	1660.00	1614.14	36.20	
5700.00	5473.53	17.19	78.00	5335.05	22.40	13.47	217.82	1692.67	1645.68	36.02	
5800.00	5567.73	17.19	78.00	5425.04	22.98	13.75	218.09	1725.38	1677.25	35.85	
5900.00	5661.93	17.19	78.00	5515.04	23.56	14.03	218.34	1758.12	1708.86	35.69	
6000.00	5756.13	17.19	78.00	5605.03	24.14	14.31	218.59	1790.89	1740.49	35.54	
6100.00	5850.33	17.19	78.00	5695.02	24.72	14.59	218.83	1823.69	1772.15	35.39	
6200.00	5944.53	17.19	78.00	5785.02	25.30	14.87	219.06	1856.51	1803.84	35.25	
6300.00	6038.73	17.19	78.00	5875.01	25.88	15.15	219.28	1889.36	1835.55	35.11	
6400.00	6132.93	17.19	78.00	5965.01	26.46	15.44	219.49	1922.24	1867.28	34.98	
6500.00	6227.03	17.19	78.00	6054.90	27.04	15.72	211.92	1955.21	1899.13	34.87	
6600.00	6319.29	17.19	78.00	6143.04	27.61	15.99	185.50	1989.02	1931.95	34.85	
6700.00	6409.49	16.16	77.40	6229.25	28.15	16.27	158.13	2023.64	1965.65	34.90	
6800.00	6513.15	8.11	67.30	6330.52	28.51	16.47	137.70	2058.48	1999.76	35.06	
6900.00	6624.43	3.01	332.11	6441.39	28.67	16.33	124.31	2092.68	2033.55	35.39	
7000.00	6745.17	11.26	280.79	6561.17	28.63	15.77	115.45	2125.50	2066.29	35.90	
7100.00	6877.28	21.66	273.81	6687.70	28.39	14.72	109.34	2156.12	2097.18	36.58	
7200.00	7022.24	33.19	271.08	6816.16	28.00	13.15	104.94	2183.67	2125.33	37.43	
7300.00	7180.30	45.80	269.56	6937.90	27.59	11.24	101.68	2207.23	2149.72	38.38	
7400.00	7349.48	59.31	268.52	7040.53	27.47	9.56	99.17	2225.93	2168.89	39.03	
7500.00	7524.95	73.32	267.71	7110.84	27.91	9.17	97.18	2239.09	2181.95	39.19	
7600.00	7699.83	87.30	267.02	7140.20	29.03	10.56	95.60	2246.33	2188.14	38.60	
7700.00	7813.41	90.00	266.89	7141.00	30.13	11.36	94.80	2248.66	2188.73	37.52	
7800.00	7913.39	90.00	266.89	7141.00	31.31	11.84	94.74	2248.62	2186.61	36.26	
7900.00	8013.39	90.00	266.89	7141.00	32.69	12.35	94.75	2248.37	2183.90	34.87	
8000.00	8113.39	90.00	266.89	7141.00	34.24	12.89	94.75	2248.13	2180.81	33.40	
8100.00	8213.39	90.00	266.89	7141.00	35.95	13.44	94.75	2247.88	2177.36	31.88	
8200.00	8313.39	90.00	266.89	7141.00	37.78	14.01	94.75	2247.63	2173.58	30.35	
8300.00	8413.39	90.00	266.89	7141.00	39.73	14.59	94.75	2247.39	2169.73	28.94	
8400.00	8513.39	90.00	266.89	7141.00	41.78	15.19	94.75	2247.14	2165.43	27.50	
8500.00	8613.39	90.00	266.89	7141.00	43.90	15.80	94.75	2246.89	2161.16	26.21	
8600.00	8713.39	90.00	266.89	7141.00	46.10	16.42	94.75	2246.65	2156.66	24.97	
8700.00	8813.39	90.00	266.89	7141.00	48.37	17.05	94.75	2246.40	2151.84	23.76	
8800.00	8913.39	90.00	266.89	7141.00	50.68	17.68	94.75	2246.16	2147.09	22.67	
8900.00	9013.39	90.00	266.89	7141.00	53.04	18.33	94.75	2245.91	2142.25	21.67	
9000.00	9113.39	90.00	266.89	7141.00	55.45	18.98	94.75	2245.66	2137.31	20.73	
9100.00	9213.39	90.00	266.89	7141.00	57.88	19.63	94.75	2245.42	2132.28	19.85	
9200.00	9313.39	90.00	266.89	7141.00	60.35	20.29	94.75	2245.17	2127.17	19.03	
9300.00	9413.39	90.00	266.89	7141.00	62.85	20.96	94.75	2244.92	2122.00	18.26	
9400.00	9513.39	90.00	266.89	7141.00	65.37	21.63	94.75	2244.68	2116.76	17.55	
9500.00	9613.38	90.00	266.89	7141.00	67.92	22.30	94.75	2244.43	2111.48	16.88	
9600.00	9713.38	90.00	266.89	7141.00	70.48	22.98	94.75	2244.19	2106.15	16.26	
9700.00	9813.38	90.00	266.89	7141.00	73.06	23.66	94.75	2243.94	2100.78	15.67	

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
9800.00	9913.38	90.00	266.89	7141.00	75.66	24.35	94.76	2243.69	2095.38	15.13	
9900.00	10013.38	90.00	266.89	7141.00	78.27	25.03	94.76	2243.45	2089.95	14.62	
10000.00	10113.38	90.00	266.89	7141.00	80.89	25.72	94.76	2243.20	2084.49	14.13	
10100.00	10213.38	90.00	266.89	7141.00	83.52	26.41	94.76	2242.96	2079.01	13.68	
10200.00	10313.38	90.00	266.89	7141.00	86.17	27.11	94.76	2242.71	2073.50	13.25	
10300.00	10413.38	90.00	266.89	7141.00	88.82	27.80	94.76	2242.46	2067.98	12.85	
10400.00	10513.38	90.00	266.89	7141.00	91.48	28.50	94.76	2242.22	2062.43	12.47	
10500.00	10613.38	90.00	266.89	7141.00	94.15	29.20	94.76	2241.97	2056.87	12.11	
10600.00	10713.38	90.00	266.89	7141.00	96.83	29.90	94.76	2241.72	2051.30	11.77	
10700.00	10813.38	90.00	266.89	7141.00	99.51	30.61	94.76	2241.48	2045.71	11.45	
10800.00	10913.38	90.00	266.89	7141.00	102.21	31.31	94.76	2241.23	2040.11	11.14	
10900.00	11013.38	90.00	266.89	7141.00	104.90	32.01	94.76	2240.99	2034.49	10.85	
11000.00	11113.38	90.00	266.89	7141.00	107.60	32.72	94.76	2240.74	2028.87	10.58	
11100.00	11213.38	90.00	266.89	7141.00	110.31	33.43	94.76	2240.49	2023.24	10.31	
11200.00	11313.38	90.00	266.89	7141.00	113.02	34.14	94.76	2240.25	2017.59	10.06	
11300.00	11413.38	90.00	266.89	7141.00	115.73	34.85	94.76	2240.00	2011.94	9.82	
11400.00	11513.38	90.00	266.89	7141.00	118.45	35.56	94.76	2239.75	2006.28	9.59	
11500.00	11613.38	90.00	266.89	7141.00	121.18	36.27	94.76	2239.51	2000.61	9.37	
11600.00	11713.38	90.00	266.89	7141.00	123.90	36.98	94.76	2239.26	1994.94	9.17	
11700.00	11813.38	90.00	266.89	7141.00	126.63	37.70	94.77	2239.02	1989.26	8.96	
11800.00	11913.38	90.00	266.89	7141.00	129.36	38.41	94.77	2238.77	1983.57	8.77	
11900.00	12013.38	90.00	266.89	7141.00	132.10	39.13	94.77	2238.52	1977.88	8.59	
12000.00	12113.38	90.00	266.89	7141.00	134.84	39.84	94.77	2238.28	1972.18	8.41	
12100.00	12213.38	90.00	266.89	7141.00	137.58	40.56	94.77	2238.03	1966.48	8.24	
12200.00	12313.38	90.00	266.89	7141.00	140.32	41.27	94.77	2237.78	1960.77	8.08	
12300.00	12413.38	90.00	266.89	7141.00	143.06	41.99	94.77	2237.54	1955.05	7.92	
12400.00	12513.38	90.00	266.89	7141.00	145.81	42.71	94.77	2237.29	1949.34	7.77	
12500.00	12613.38	90.00	266.89	7141.00	148.56	43.43	94.77	2237.05	1943.62	7.62	
12600.00	12713.38	90.00	266.89	7141.00	151.31	44.15	94.77	2236.80	1937.89	7.48	
12700.00	12813.38	90.00	266.89	7141.00	154.06	44.87	94.77	2236.55	1932.16	7.35	
12800.00	12913.37	90.00	266.89	7141.00	156.81	45.59	94.77	2236.31	1926.43	7.22	
12900.00	13013.37	90.00	266.89	7141.00	159.57	46.31	94.77	2236.06	1920.70	7.09	
13000.00	13113.37	90.00	266.89	7141.00	162.33	47.03	94.77	2235.82	1914.96	6.97	
13100.00	13213.37	90.00	266.89	7141.00	165.08	47.75	94.77	2235.57	1909.22	6.85	
13200.00	13313.37	90.00	266.89	7141.00	167.84	48.47	94.77	2235.32	1903.48	6.74	
13300.00	13413.37	90.00	266.89	7141.00	170.60	49.19	94.77	2235.08	1897.73	6.63	
13400.00	13513.37	90.00	266.89	7141.00	173.37	49.91	94.77	2234.83	1891.98	6.52	
13500.00	13613.37	90.00	266.89	7141.00	176.13	50.64	94.77	2234.58	1886.23	6.41	
13600.00	13713.37	90.00	266.89	7141.00	178.89	51.36	94.78	2234.34	1880.48	6.31	
13700.00	13813.37	90.00	266.89	7141.00	181.66	52.08	94.78	2234.09	1874.72	6.22	
13800.00	13913.37	90.00	266.89	7141.00	184.43	52.80	94.78	2233.85	1868.96	6.12	
13900.00	14013.37	90.00	266.89	7141.00	187.19	53.53	94.78	2233.60	1863.20	6.03	
14000.00	14113.37	90.00	266.89	7141.00	189.96	54.25	94.78	2233.35	1857.44	5.94	
14100.00	14213.37	90.00	266.89	7141.00	192.73	54.98	94.78	2233.11	1851.68	5.85	
14200.00	14313.37	90.00	266.89	7141.00	195.50	55.70	94.78	2232.86	1845.91	5.77	
14300.00	14413.37	90.00	266.89	7141.00	198.27	56.42	94.78	2232.61	1840.15	5.69	
14400.00	14513.37	90.00	266.89	7141.00	201.04	57.15	94.78	2232.37	1834.38	5.61	
14500.00	14613.37	90.00	266.89	7141.00	203.82	57.87	94.78	2232.12	1828.61	5.53	
14600.00	14713.37	90.00	266.89	7141.00	206.59	58.60	94.78	2231.88	1822.84	5.46	
14700.00	14813.37	90.00	266.89	7141.00	209.36	59.33	94.78	2231.63	1817.07	5.38	
14800.00	14913.37	90.00	266.89	7141.00	212.14	60.05	94.78	2231.38	1811.29	5.31	
14900.00	15013.37	90.00	266.89	7141.00	214.91	60.78	94.78	2231.14	1805.52	5.24	
15000.00	15113.37	90.00	266.89	7141.00	217.69	61.50	94.78	2230.89	1799.74	5.17	
15100.00	15213.37	90.00	266.89	7141.00	220.46	62.23	94.78	2230.65	1793.96	5.11	
15200.00	15313.37	90.00	266.89	7141.00	223.24	62.96	94.78	2230.40	1788.19	5.04	
15300.00	15413.37	90.00	266.89	7141.00	226.02	63.68	94.78	2230.15	1782.41	4.98	
15400.00	15513.37	90.00	266.89	7141.00	228.80	64.41	94.78	2229.91	1776.62	4.92	
15500.00	15613.37	90.00	266.89	7141.00	231.57	65.14	94.79	2229.66	1770.84	4.86	

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
15600.00	15644.54	90.00	266.89	7141.00	232.44	65.36	94.79	2230.48	1768.58	4.83	
15628.56	15644.54	90.00	266.89	7141.00	232.44	65.36	94.79	2231.47	1769.14	4.83	
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	359.99	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	218.89	180.31	177.57	65.82	
600.00	599.93	0.00	0.00	599.93	1.24	1.24	218.24	183.04	179.89	58.10	
700.00	699.68	0.00	0.00	699.68	1.46	1.46	216.99	188.57	184.99	52.64	
800.00	799.13	0.00	0.00	799.13	1.68	1.68	215.26	197.03	193.00	48.88	
900.00	898.15	0.00	0.00	898.15	1.91	1.91	213.19	208.57	204.08	46.39	
1000.00	996.63	0.00	0.00	996.63	2.13	2.13	210.91	223.36	218.38	44.86	
1100.00	1094.44	0.00	0.00	1094.44	2.35	2.35	208.57	241.51	236.04	44.13	
1200.00	1191.46	0.00	0.00	1191.46	2.57	2.57	206.26	263.13	257.16	44.12	
1300.00	1287.58	0.00	0.00	1287.58	2.78	2.78	204.06	288.25	281.78	44.55	
1400.00	1382.68	0.00	0.00	1382.68	3.00	3.00	202.02	316.90	309.92	45.39	
1500.00	1476.70	0.00	0.00	1476.70	3.21	3.21	200.10	348.94	341.45	46.57	
1600.00	1570.40	0.00	0.00	1570.40	3.42	3.42	198.31	382.15	374.15	47.75	
1700.00	1664.10	0.00	0.00	1664.10	3.63	3.63	196.81	415.64	407.14	48.91	
1800.00	1757.80	0.00	0.00	1757.80	3.84	3.84	195.52	449.35	440.36	50.00	
1900.00	1851.50	0.00	0.00	1851.50	4.05	4.05	194.42	483.23	473.74	50.88	
2000.00	1945.20	0.00	0.00	1945.20	4.26	4.26	193.46	517.26	507.25	51.67	
2100.00	2041.95	0.84	85.04	2041.95	4.47	4.47	192.62	551.28	540.76	52.39	
2200.00	2143.93	2.88	85.04	2143.87	4.69	4.68	192.13	584.33	573.29	52.93	
2300.00	2247.06	4.94	85.04	2246.75	4.90	4.88	192.03	616.10	604.51	53.15	
2400.00	2351.09	7.02	85.04	2350.21	5.13	5.08	192.25	646.55	634.38	53.14	
2500.00	2455.74	9.11	85.04	2453.82	5.38	5.28	192.77	675.69	662.93	52.94	
2600.00	2560.76	11.22	85.04	2557.19	5.65	5.48	193.55	703.60	690.20	52.53	
2700.00	2665.85	13.32	85.04	2659.87	5.97	5.68	194.55	730.36	716.25	51.79	
2800.00	2770.74	15.41	85.04	2761.48	6.33	5.88	195.75	756.11	741.20	50.73	
2900.00	2875.14	17.50	85.04	2861.59	6.74	6.08	197.14	781.02	765.22	49.46	
3000.00	2975.38	18.74	85.04	2956.73	7.19	6.29	198.61	805.35	788.63	48.15	
3100.00	3070.40	18.74	85.04	3046.71	7.66	6.52	199.97	829.96	812.30	46.98	
3200.00	3165.41	18.74	85.04	3136.69	8.16	6.76	201.25	855.01	836.32	45.76	
3300.00	3260.42	18.74	85.04	3226.67	8.67	7.00	202.46	880.44	860.69	44.57	
3400.00	3355.43	18.74	85.04	3316.64	9.20	7.25	203.61	906.24	885.40	43.49	
3500.00	3450.44	18.74	85.04	3406.62	9.75	7.50	204.69	932.36	910.43	42.50	
3600.00	3545.46	18.74	85.04	3496.60	10.31	7.75	205.72	958.79	935.75	41.61	
3700.00	3640.47	18.74	85.04	3586.58	10.87	8.01	206.69	985.50	961.34	40.79	
3800.00	3735.48	18.74	85.04	3676.55	11.45	8.27	207.61	1012.46	987.17	40.04	
3900.00	3830.49	18.74	85.04	3766.53	12.04	8.54	208.48	1039.66	1013.19	39.29	
4000.00	3925.51	18.74	85.04	3856.51	12.63	8.81	209.31	1067.07	1039.43	38.60	
4100.00	4020.52	18.74	85.04	3946.49	13.22	9.08	210.10	1094.69	1065.85	37.96	
4200.00	4115.53	18.74	85.04	4036.47	13.83	9.35	210.86	1122.50	1092.45	37.36	
4300.00	4210.54	18.74	85.04	4126.44	14.43	9.62	211.57	1150.48	1119.21	36.80	
4400.00	4305.55	18.74	85.04	4216.42	15.04	9.90	212.25	1178.62	1146.14	36.29	
4500.00	4400.57	18.74	85.04	4306.40	15.65	10.17	212.91	1206.91	1173.21	35.82	
4600.00	4495.58	18.74	85.04	4396.38	16.27	10.45	213.53	1235.34	1200.43	35.39	
4700.00	4590.59	18.74	85.04	4486.35	16.89	10.73	214.12	1263.90	1227.77	34.98	
4800.00	4685.60	18.74	85.04	4576.33	17.51	11.01	214.69	1292.58	1255.23	34.61	
4900.00	4780.62	18.74	85.04	4666.31	18.13	11.30	215.23	1321.37	1282.81	34.27	
5000.00	4875.63	18.74	85.04	4756.29	18.76	11.58	215.76	1350.27	1310.49	33.94	
5100.00	4970.64	18.74	85.04	4846.27	19.38	11.86	216.26	1379.27	1338.24	33.61	

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
5200.00	5065.65	18.74	85.04	4936.24	20.01	12.15	216.74	1408.37	1366.08	33.31	
5300.00	5160.66	18.74	85.04	5026.22	20.64	12.44	217.20	1437.55	1394.01	33.02	
5400.00	5255.68	18.74	85.04	5116.20	21.27	12.72	217.64	1466.81	1422.03	32.75	
5500.00	5350.69	18.74	85.04	5206.18	21.90	13.01	218.06	1496.16	1450.12	32.50	
5600.00	5445.70	18.74	85.04	5296.15	22.54	13.30	218.47	1525.57	1478.28	32.26	
5700.00	5540.71	18.74	85.04	5386.13	23.17	13.59	218.86	1555.06	1506.52	32.04	
5800.00	5635.73	18.74	85.04	5476.11	23.81	13.88	219.24	1584.61	1534.82	31.83	
5900.00	5730.74	18.74	85.04	5566.09	24.44	14.17	219.61	1614.22	1563.18	31.63	
6000.00	5825.75	18.74	85.04	5656.07	25.08	14.46	219.96	1643.89	1591.61	31.44	
6100.00	5920.76	18.74	85.04	5746.04	25.71	14.75	220.30	1673.61	1620.09	31.27	
6200.00	6015.77	18.74	85.04	5836.02	26.35	15.04	220.63	1703.39	1648.62	31.10	
6300.00	6110.79	18.74	85.04	5926.00	26.99	15.34	220.95	1733.22	1677.20	30.94	
6400.00	6206.00	18.63	85.03	6016.17	27.63	15.63	221.25	1763.09	1705.83	30.79	
6500.00	6319.06	9.59	83.37	6125.71	28.15	15.93	213.65	1792.61	1734.24	30.71	
6600.00	6432.34	0.76	39.17	6238.42	28.37	15.84	187.00	1822.26	1763.37	30.94	
6700.00	6545.47	8.56	270.42	6351.15	28.39	15.37	159.08	1851.84	1792.84	31.39	
6800.00	6658.45	17.58	268.46	6461.09	28.25	14.56	137.86	1880.76	1822.01	32.01	
6900.00	6771.22	26.60	267.81	6565.47	28.02	13.48	123.66	1908.48	1850.24	32.77	
7000.00	6883.69	35.60	267.47	6661.68	27.75	12.21	113.97	1934.44	1876.89	33.61	
7100.00	6995.71	44.56	267.26	6747.30	27.52	10.89	107.03	1958.14	1901.29	34.44	
7200.00	7107.03	53.46	267.10	6820.25	27.42	9.74	101.83	1979.13	1922.73	35.09	
7300.00	7217.37	62.29	266.98	6878.86	27.54	9.00	97.87	1997.01	1940.79	35.53	
7400.00	7326.40	71.01	266.88	6922.03	27.90	8.90	94.85	2011.43	1955.01	35.65	
7500.00	7433.77	79.60	266.79	6949.24	28.52	9.48	92.61	2022.14	1965.07	35.43	
7600.00	7539.16	88.03	266.71	6960.58	29.35	10.58	91.04	2028.95	1970.67	34.81	
7700.00	7639.66	90.00	266.69	6961.00	30.38	11.25	90.22	2031.81	1971.80	33.86	
7800.00	7739.64	90.00	266.69	6961.00	31.59	11.75	90.17	2031.49	1969.37	32.71	
7900.00	7839.64	90.00	266.69	6961.00	33.00	12.27	90.17	2030.89	1966.29	31.44	
8000.00	7939.64	90.00	266.69	6961.00	34.58	12.82	90.17	2030.28	1962.83	30.10	
8100.00	8039.64	90.00	266.69	6961.00	36.31	13.38	90.17	2029.68	1959.00	28.72	
8200.00	8139.64	90.00	266.69	6961.00	38.16	13.95	90.17	2029.08	1954.83	27.33	
8300.00	8239.63	90.00	266.69	6961.00	40.12	14.55	90.17	2028.48	1950.58	26.04	
8400.00	8339.63	90.00	266.69	6961.00	42.18	15.15	90.17	2027.87	1945.89	24.73	
8500.00	8439.63	90.00	266.69	6961.00	44.32	15.76	90.17	2027.27	1941.25	23.57	
8600.00	8539.63	90.00	266.69	6961.00	46.53	16.39	90.17	2026.67	1936.34	22.44	
8700.00	8639.63	90.00	266.69	6961.00	48.80	17.02	90.17	2026.07	1931.13	21.34	
8800.00	8739.62	90.00	266.69	6961.00	51.12	17.66	90.17	2025.46	1925.99	20.36	
8900.00	8839.62	90.00	266.69	6961.00	53.49	18.31	90.17	2024.86	1920.77	19.45	
9000.00	8939.62	90.00	266.69	6961.00	55.90	18.97	90.17	2024.26	1915.45	18.60	
9100.00	9039.62	90.00	266.69	6961.00	58.34	19.63	90.17	2023.66	1910.03	17.81	
9200.00	9139.62	90.00	266.69	6961.00	60.81	20.29	90.17	2023.05	1904.54	17.07	
9300.00	9239.62	90.00	266.69	6961.00	63.31	20.96	90.17	2022.45	1898.98	16.38	
9400.00	9339.61	90.00	266.69	6961.00	65.84	21.63	90.17	2021.85	1893.36	15.74	
9500.00	9439.61	90.00	266.69	6961.00	68.38	22.31	90.17	2021.24	1887.69	15.13	
9600.00	9539.61	90.00	266.69	6961.00	70.95	22.99	90.17	2020.64	1881.98	14.57	
9700.00	9639.61	90.00	266.69	6961.00	73.53	23.68	90.17	2020.04	1876.23	14.05	
9800.00	9739.61	90.00	266.69	6961.00	76.13	24.36	90.17	2019.44	1870.45	13.55	
9900.00	9839.60	90.00	266.69	6961.00	78.74	25.05	90.17	2018.83	1864.64	13.09	
10000.00	9939.60	90.00	266.69	6961.00	81.36	25.74	90.17	2018.23	1858.80	12.66	
10100.00	10039.60	90.00	266.69	6961.00	83.99	26.44	90.17	2017.63	1852.94	12.25	
10200.00	10139.60	90.00	266.69	6961.00	86.64	27.14	90.17	2017.03	1847.05	11.87	
10300.00	10239.60	90.00	266.69	6961.00	89.29	27.83	90.17	2016.42	1841.15	11.50	
10400.00	10339.60	90.00	266.69	6961.00	91.95	28.53	90.17	2015.82	1835.22	11.16	
10500.00	10439.59	90.00	266.69	6961.00	94.63	29.23	90.17	2015.22	1829.29	10.84	
10600.00	10539.59	90.00	266.69	6961.00	97.30	29.94	90.17	2014.62	1823.33	10.53	
10700.00	10639.59	90.00	266.69	6961.00	99.99	30.64	90.17	2014.01	1817.36	10.24	
10800.00	10739.59	90.00	266.69	6961.00	102.68	31.35	90.17	2013.41	1811.38	9.97	
10900.00	10839.59	90.00	266.69	6961.00	105.37	32.06	90.17	2012.81	1805.39	9.70	

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
11000.00	10939.58	90.00	266.69	6961.00	108.07	32.76	90.17	2012.21	1799.39	9.46	
11100.00	11039.58	90.00	266.69	6961.00	110.78	33.47	90.17	2011.60	1793.38	9.22	
11200.00	11139.58	90.00	266.69	6961.00	113.49	34.18	90.17	2011.00	1787.36	8.99	
11300.00	11239.58	90.00	266.69	6961.00	116.20	34.89	90.17	2010.40	1781.33	8.78	
11400.00	11339.58	90.00	266.69	6961.00	118.92	35.61	90.17	2009.80	1775.29	8.57	
11500.00	11439.58	90.00	266.69	6961.00	121.64	36.32	90.17	2009.19	1769.24	8.37	
11600.00	11539.57	90.00	266.69	6961.00	124.37	37.03	90.17	2008.59	1763.19	8.18	
11700.00	11639.57	90.00	266.69	6961.00	127.10	37.75	90.17	2007.99	1757.13	8.00	
11800.00	11739.57	90.00	266.69	6961.00	129.83	38.46	90.17	2007.39	1751.07	7.83	
11900.00	11839.57	90.00	266.69	6961.00	132.56	39.18	90.17	2006.78	1745.00	7.67	
12000.00	11939.57	90.00	266.69	6961.00	135.30	39.90	90.17	2006.18	1738.92	7.51	
12100.00	12039.56	90.00	266.69	6961.00	138.04	40.61	90.17	2005.58	1732.84	7.35	
12200.00	12139.56	90.00	266.69	6961.00	140.78	41.33	90.17	2004.98	1726.75	7.21	
12300.00	12239.56	90.00	266.69	6961.00	143.52	42.05	90.17	2004.37	1720.66	7.06	
12400.00	12339.56	90.00	266.69	6961.00	146.27	42.77	90.17	2003.77	1714.57	6.93	
12500.00	12439.56	90.00	266.69	6961.00	149.02	43.49	90.17	2003.17	1708.47	6.80	
12600.00	12539.56	90.00	266.69	6961.00	151.77	44.21	90.17	2002.57	1702.37	6.67	
12700.00	12639.55	90.00	266.69	6961.00	154.52	44.93	90.17	2001.96	1696.27	6.55	
12800.00	12739.55	90.00	266.69	6961.00	157.27	45.65	90.17	2001.36	1690.16	6.43	
12900.00	12839.55	90.00	266.69	6961.00	160.03	46.37	90.17	2000.76	1684.04	6.32	
13000.00	12939.55	90.00	266.69	6961.00	162.78	47.09	90.17	2000.16	1677.93	6.21	
13100.00	13039.55	90.00	266.69	6961.00	165.54	47.81	90.17	1999.55	1671.81	6.10	
13200.00	13139.54	90.00	266.69	6961.00	168.30	48.53	90.17	1998.95	1665.69	6.00	
13300.00	13239.54	90.00	266.69	6961.00	171.06	49.26	90.17	1998.35	1659.57	5.90	
13400.00	13339.54	90.00	266.69	6961.00	173.82	49.98	90.17	1997.75	1653.44	5.80	
13500.00	13439.54	90.00	266.69	6961.00	176.58	50.70	90.17	1997.14	1647.32	5.71	
13600.00	13539.54	90.00	266.69	6961.00	179.34	51.43	90.17	1996.54	1641.19	5.62	
13700.00	13639.54	90.00	266.69	6961.00	182.11	52.15	90.17	1995.94	1635.05	5.53	
13800.00	13739.53	90.00	266.69	6961.00	184.87	52.87	90.17	1995.34	1628.92	5.45	
13900.00	13839.53	90.00	266.69	6961.00	187.64	53.60	90.17	1994.73	1622.78	5.36	
14000.00	13939.53	90.00	266.69	6961.00	190.41	54.32	90.17	1994.13	1616.65	5.28	
14100.00	14039.53	90.00	266.69	6961.00	193.18	55.05	90.17	1993.53	1610.51	5.20	
14200.00	14139.53	90.00	266.69	6961.00	195.94	55.77	90.17	1992.92	1604.36	5.13	
14300.00	14239.52	90.00	266.69	6961.00	198.71	56.50	90.17	1992.32	1598.22	5.06	
14400.00	14339.52	90.00	266.69	6961.00	201.49	57.22	90.17	1991.72	1592.08	4.98	
14500.00	14439.52	90.00	266.69	6961.00	204.26	57.95	90.17	1991.12	1585.93	4.91	
14600.00	14539.52	90.00	266.69	6961.00	207.03	58.67	90.17	1990.51	1579.78	4.85	
14700.00	14639.52	90.00	266.69	6961.00	209.80	59.40	90.17	1989.91	1573.63	4.78	
14800.00	14739.52	90.00	266.69	6961.00	212.57	60.12	90.17	1989.31	1567.48	4.72	
14900.00	14839.51	90.00	266.69	6961.00	215.35	60.85	90.17	1988.71	1561.33	4.65	
15000.00	14939.51	90.00	266.69	6961.00	218.12	61.58	90.17	1988.10	1555.18	4.59	
15100.00	15039.51	90.00	266.69	6961.00	220.90	62.30	90.17	1987.50	1549.02	4.53	
15200.00	15139.51	90.00	266.69	6961.00	223.67	63.03	90.17	1986.90	1542.87	4.47	
15300.00	15239.51	90.00	266.69	6961.00	226.45	63.76	90.17	1986.30	1536.71	4.42	
15400.00	15339.51	90.00	266.69	6961.00	229.23	64.48	90.17	1985.69	1530.55	4.36	
15500.00	15439.50	90.00	266.69	6961.00	232.00	65.21	90.17	1985.09	1524.40	4.31	
15600.00	15473.86	90.00	266.69	6961.00	232.96	65.46	90.17	1985.57	1521.77	4.28	
15628.56	15473.86	90.00	266.69	6961.00	232.96	65.46	90.17	1986.55	1522.38	4.28	
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	0.05	159.93	159.20	218.10	
100.00	100.00	0.00	0.00	100.00	0.11	0.11	0.05	159.93	158.98	167.66	
200.00	200.00	0.00	0.00	200.00	0.34	0.34	0.05	159.93	158.53	113.95	
300.00	300.00	0.00	0.00	300.00	0.56	0.56	0.05	159.93	158.08	86.31	
400.00	400.00	0.00	0.00	400.00	0.79	0.79	0.05	159.93	157.63	69.46	
500.00	500.00	0.00	0.00	500.00	1.01	1.01	218.93	160.27	157.53	58.50	

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
600.00	599.93	0.00	0.00	599.93	1.24	1.24	218.20	163.00	159.85	51.74	
700.00	699.68	0.00	0.00	699.68	1.46	1.46	216.80	168.54	164.96	47.05	
800.00	799.13	0.00	0.00	799.13	1.68	1.68	214.87	177.03	173.00	43.93	
900.00	898.15	0.00	0.00	898.15	1.91	1.91	212.59	188.65	184.15	41.96	
1000.00	996.63	0.00	0.00	996.63	2.13	2.13	210.11	203.54	198.56	40.90	
1100.00	1094.44	0.00	0.00	1094.44	2.35	2.35	207.60	221.85	216.38	40.58	
1200.00	1191.46	0.00	0.00	1191.46	2.57	2.57	205.17	243.65	237.70	40.93	
1300.00	1287.58	0.00	0.00	1287.58	2.78	2.78	202.89	268.99	262.52	41.61	
1400.00	1382.68	0.00	0.00	1382.68	3.00	3.00	200.80	297.86	290.90	42.78	
1500.00	1476.70	0.00	0.00	1476.70	3.21	3.21	198.87	330.13	322.66	44.17	
1600.00	1570.40	0.00	0.00	1570.40	3.42	3.42	197.10	363.55	355.57	45.54	
1700.00	1664.10	0.00	0.00	1664.10	3.63	3.63	195.63	397.23	388.76	46.89	
1800.00	1762.22	1.24	92.75	1762.21	3.84	3.84	194.41	430.82	421.84	47.98	
1900.00	1864.36	3.29	92.75	1864.27	4.05	4.04	193.72	463.04	453.55	48.80	
2000.00	1967.90	5.36	92.75	1967.51	4.27	4.24	193.50	493.65	483.63	49.25	
2100.00	2072.57	7.45	92.75	2071.52	4.50	4.44	193.70	522.59	512.00	49.35	
2200.00	2178.12	9.56	92.75	2175.91	4.76	4.64	194.24	549.86	538.66	49.13	
2300.00	2284.27	11.69	92.75	2280.23	5.05	4.85	195.08	575.50	563.66	48.60	
2400.00	2390.73	13.81	92.75	2384.06	5.39	5.06	196.19	599.62	587.05	47.69	
2500.00	2497.21	15.94	92.75	2486.96	5.78	5.27	197.54	622.36	608.97	46.47	
2600.00	2598.11	16.91	92.75	2583.61	6.21	5.49	198.99	644.11	629.83	45.10	
2700.00	2694.52	16.91	92.75	2675.86	6.65	5.72	200.31	666.06	650.88	43.87	
2800.00	2790.93	16.91	92.75	2768.10	7.12	5.95	201.55	688.34	672.22	42.71	
2900.00	2887.34	16.91	92.75	2860.35	7.60	6.20	202.72	710.90	693.80	41.56	
3000.00	2983.76	16.91	92.75	2952.59	8.10	6.44	203.81	733.74	715.62	40.51	
3100.00	3080.17	16.91	92.75	3044.84	8.62	6.69	204.83	756.81	737.68	39.56	
3200.00	3176.58	16.91	92.75	3137.08	9.14	6.94	205.80	780.11	759.93	38.66	
3300.00	3272.99	16.91	92.75	3229.32	9.68	7.20	206.71	803.61	782.36	37.83	
3400.00	3369.41	16.91	92.75	3321.57	10.22	7.46	207.57	827.29	804.97	37.07	
3500.00	3465.82	16.91	92.75	3413.81	10.76	7.72	208.39	851.14	827.71	36.33	
3600.00	3562.23	16.91	92.75	3506.06	11.32	7.99	209.16	875.15	850.59	35.64	
3700.00	3658.64	16.91	92.75	3598.30	11.87	8.25	209.89	899.30	873.61	35.01	
3800.00	3755.06	16.91	92.75	3690.55	12.43	8.52	210.58	923.58	896.75	34.43	
3900.00	3851.47	16.91	92.75	3782.79	13.00	8.79	211.23	947.98	920.01	33.90	
4000.00	3947.88	16.91	92.75	3875.04	13.57	9.06	211.86	972.49	943.39	33.41	
4100.00	4044.29	16.91	92.75	3967.28	14.14	9.33	212.45	997.11	966.86	32.96	
4200.00	4140.71	16.91	92.75	4059.53	14.71	9.61	213.01	1021.82	990.43	32.54	
4300.00	4237.12	16.91	92.75	4151.77	15.29	9.88	213.55	1046.63	1014.08	32.16	
4400.00	4333.53	16.91	92.75	4244.02	15.86	10.16	214.07	1071.52	1037.82	31.80	
4500.00	4429.94	16.91	92.75	4336.26	16.44	10.44	214.56	1096.48	1061.63	31.47	
4600.00	4526.36	16.91	92.75	4428.51	17.02	10.71	215.02	1121.52	1085.52	31.15	
4700.00	4622.77	16.91	92.75	4520.75	17.61	10.99	215.47	1146.63	1109.47	30.86	
4800.00	4719.18	16.91	92.75	4613.00	18.19	11.27	215.90	1171.79	1133.48	30.58	
4900.00	4815.59	16.91	92.75	4705.24	18.77	11.55	216.31	1197.02	1157.53	30.31	
5000.00	4912.01	16.91	92.75	4797.49	19.36	11.83	216.71	1222.31	1181.62	30.04	
5100.00	5008.42	16.91	92.75	4889.73	19.94	12.12	217.09	1247.64	1205.76	29.78	
5200.00	5104.83	16.91	92.75	4981.98	20.53	12.40	217.45	1273.03	1229.94	29.54	
5300.00	5201.24	16.91	92.75	5074.22	21.12	12.68	217.80	1298.46	1254.17	29.32	
5400.00	5297.66	16.91	92.75	5166.47	21.71	12.96	218.13	1323.94	1278.45	29.11	
5500.00	5394.07	16.91	92.75	5258.71	22.30	13.25	218.46	1349.46	1302.77	28.90	
5600.00	5490.48	16.91	92.75	5350.96	22.89	13.53	218.77	1375.01	1327.12	28.71	
5700.00	5586.89	16.91	92.75	5443.20	23.48	13.82	219.07	1400.60	1351.52	28.53	
5800.00	5683.31	16.91	92.75	5535.45	24.07	14.10	219.36	1426.23	1375.94	28.36	
5900.00	5779.72	16.91	92.75	5627.69	24.66	14.39	219.64	1451.89	1400.40	28.20	
6000.00	5876.13	16.91	92.75	5719.94	25.25	14.67	219.91	1477.58	1424.89	28.04	
6100.00	5972.54	16.91	92.75	5812.18	25.85	14.96	220.17	1503.31	1449.42	27.90	
6200.00	6068.96	16.91	92.75	5904.43	26.44	15.25	220.42	1529.05	1473.97	27.76	
6300.00	6165.37	16.91	92.75	5996.67	27.03	15.53	220.66	1554.83	1498.54	27.62	

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
6400.00	6262.44	16.54	92.89	6089.56	27.62	15.83	220.90	1580.63	1523.14	27.49	
6500.00	6375.59	7.62	100.59	6200.09	28.03	16.05	213.30	1606.00	1547.55	27.48	
6600.00	6488.17	2.45	217.96	6312.35	28.20	15.90	186.87	1631.43	1572.58	27.72	
6700.00	6599.92	10.71	256.90	6423.30	28.16	15.38	159.19	1656.79	1597.96	28.16	
6800.00	6710.78	19.51	261.47	6530.23	27.97	14.54	138.20	1681.59	1623.14	28.77	
6900.00	6820.72	28.27	263.25	6630.65	27.69	13.45	124.21	1705.36	1647.54	29.50	
7000.00	6929.68	36.98	264.23	6722.34	27.39	12.19	114.73	1727.64	1670.59	30.28	
7100.00	7037.60	45.60	264.88	6803.35	27.14	10.92	107.97	1748.01	1691.63	31.00	
7200.00	7144.35	54.13	265.35	6872.10	27.02	9.80	102.93	1766.08	1710.19	31.60	
7300.00	7249.83	62.56	265.72	6927.40	27.09	9.06	99.11	1781.50	1725.82	32.00	
7400.00	7353.90	70.88	266.04	6968.48	27.39	8.90	96.20	1793.99	1738.15	32.13	
7500.00	7456.39	79.08	266.32	6995.02	27.94	9.37	94.05	1803.30	1746.86	31.95	
7600.00	7557.19	87.14	266.59	7007.11	28.70	10.36	92.54	1809.28	1751.61	31.37	
7700.00	7656.73	90.00	266.68	7008.00	29.66	11.09	91.73	1811.80	1752.46	30.53	
7800.00	7756.71	90.00	266.68	7008.00	30.83	11.58	91.68	1811.44	1750.03	29.49	
7900.00	7856.71	90.00	266.68	7008.00	32.21	12.09	91.68	1810.83	1746.94	28.34	
8000.00	7956.71	90.00	266.68	7008.00	33.76	12.62	91.68	1810.21	1743.46	27.12	
8100.00	8056.70	90.00	266.68	7008.00	35.46	13.17	91.68	1809.59	1739.62	25.86	
8200.00	8156.70	90.00	266.68	7008.00	37.30	13.74	91.68	1808.98	1735.45	24.60	
8300.00	8256.70	90.00	266.68	7008.00	39.25	14.32	91.68	1808.36	1731.21	23.44	
8400.00	8356.70	90.00	266.68	7008.00	41.30	14.92	91.68	1807.74	1726.51	22.25	
8500.00	8456.70	90.00	266.68	7008.00	43.43	15.53	91.68	1807.12	1721.85	21.19	
8600.00	8556.69	90.00	266.68	7008.00	45.63	16.14	91.68	1806.51	1716.95	20.17	
8700.00	8656.69	90.00	266.68	7008.00	47.90	16.77	91.68	1805.89	1711.73	19.18	
8800.00	8756.69	90.00	266.68	7008.00	50.22	17.41	91.68	1805.27	1706.58	18.29	
8900.00	8856.69	90.00	266.68	7008.00	52.58	18.05	91.68	1804.65	1701.35	17.47	
9000.00	8956.69	90.00	266.68	7008.00	54.99	18.70	91.68	1804.04	1696.02	16.70	
9100.00	9056.68	90.00	266.68	7008.00	57.43	19.36	91.68	1803.42	1690.59	15.98	
9200.00	9156.68	90.00	266.68	7008.00	59.91	20.02	91.68	1802.80	1685.09	15.31	
9300.00	9256.68	90.00	266.68	7008.00	62.41	20.69	91.69	1802.19	1679.52	14.69	
9400.00	9356.68	90.00	266.68	7008.00	64.93	21.36	91.69	1801.57	1673.89	14.11	
9500.00	9456.68	90.00	266.68	7008.00	67.48	22.03	91.69	1800.95	1668.21	13.57	
9600.00	9556.68	90.00	266.68	7008.00	70.05	22.71	91.69	1800.33	1662.48	13.06	
9700.00	9656.67	90.00	266.68	7008.00	72.63	23.39	91.69	1799.72	1656.72	12.59	
9800.00	9756.67	90.00	266.68	7008.00	75.23	24.08	91.69	1799.10	1650.93	12.14	
9900.00	9856.67	90.00	266.68	7008.00	77.84	24.77	91.69	1798.48	1645.10	11.73	
10000.00	9956.67	90.00	266.68	7008.00	80.46	25.46	91.69	1797.86	1639.25	11.33	
10100.00	10056.67	90.00	266.68	7008.00	83.10	26.15	91.69	1797.25	1633.38	10.97	
10200.00	10156.66	90.00	266.68	7008.00	85.75	26.84	91.69	1796.63	1627.48	10.62	
10300.00	10256.66	90.00	266.68	7008.00	88.40	27.54	91.69	1796.01	1621.56	10.30	
10400.00	10356.66	90.00	266.68	7008.00	91.07	28.24	91.69	1795.40	1615.63	9.99	
10500.00	10456.66	90.00	266.68	7008.00	93.74	28.94	91.69	1794.78	1609.68	9.70	
10600.00	10556.66	90.00	266.68	7008.00	96.42	29.64	91.69	1794.16	1603.71	9.42	
10700.00	10656.65	90.00	266.68	7008.00	99.10	30.34	91.69	1793.54	1597.73	9.16	
10800.00	10756.65	90.00	266.68	7008.00	101.80	31.05	91.69	1792.93	1591.74	8.91	
10900.00	10856.65	90.00	266.68	7008.00	104.49	31.75	91.69	1792.31	1585.73	8.68	
11000.00	10956.65	90.00	266.68	7008.00	107.19	32.46	91.70	1791.69	1579.72	8.45	
11100.00	11056.65	90.00	266.68	7008.00	109.90	33.17	91.70	1791.07	1573.69	8.24	
11200.00	11156.64	90.00	266.68	7008.00	112.61	33.88	91.70	1790.46	1567.66	8.04	
11300.00	11256.64	90.00	266.68	7008.00	115.33	34.59	91.70	1789.84	1561.61	7.84	
11400.00	11356.64	90.00	266.68	7008.00	118.05	35.30	91.70	1789.22	1555.56	7.66	
11500.00	11456.64	90.00	266.68	7008.00	120.77	36.01	91.70	1788.61	1549.51	7.48	
11600.00	11556.64	90.00	266.68	7008.00	123.50	36.73	91.70	1787.99	1543.44	7.31	
11700.00	11656.64	90.00	266.68	7008.00	126.23	37.44	91.70	1787.37	1537.37	7.15	
11800.00	11756.63	90.00	266.68	7008.00	128.96	38.16	91.70	1786.75	1531.29	6.99	
11900.00	11856.63	90.00	266.68	7008.00	131.70	38.87	91.70	1786.14	1525.21	6.85	
12000.00	11956.63	90.00	266.68	7008.00	134.43	39.59	91.70	1785.52	1519.12	6.70	
12100.00	12056.63	90.00	266.68	7008.00	137.17	40.30	91.70	1784.90	1513.03	6.57	

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
12200.00	12156.63	90.00	266.68	7008.00	139.92	41.02	91.70	1784.28	1506.93	6.43	
12300.00	12256.62	90.00	266.68	7008.00	142.66	41.74	91.70	1783.67	1500.83	6.31	
12400.00	12356.62	90.00	266.68	7008.00	145.41	42.46	91.70	1783.05	1494.72	6.18	
12500.00	12456.62	90.00	266.68	7008.00	148.16	43.18	91.70	1782.43	1488.61	6.07	
12600.00	12556.62	90.00	266.68	7008.00	150.91	43.89	91.70	1781.82	1482.50	5.95	
12700.00	12656.62	90.00	266.68	7008.00	153.66	44.61	91.71	1781.20	1476.38	5.84	
12800.00	12756.61	90.00	266.68	7008.00	156.41	45.33	91.71	1780.58	1470.26	5.74	
12900.00	12856.61	90.00	266.68	7008.00	159.17	46.06	91.71	1779.96	1464.14	5.64	
13000.00	12956.61	90.00	266.68	7008.00	161.92	46.78	91.71	1779.35	1458.01	5.54	
13100.00	13056.61	90.00	266.68	7008.00	164.68	47.50	91.71	1778.73	1451.88	5.44	
13200.00	13156.61	90.00	266.68	7008.00	167.44	48.22	91.71	1778.11	1445.75	5.35	
13300.00	13256.60	90.00	266.68	7008.00	170.20	48.94	91.71	1777.49	1439.61	5.26	
13400.00	13356.60	90.00	266.68	7008.00	172.96	49.66	91.71	1776.88	1433.47	5.17	
13500.00	13456.60	90.00	266.68	7008.00	175.73	50.39	91.71	1776.26	1427.33	5.09	
13600.00	13556.60	90.00	266.68	7008.00	178.49	51.11	91.71	1775.64	1421.19	5.01	
13700.00	13656.60	90.00	266.68	7008.00	181.26	51.83	91.71	1775.03	1415.05	4.93	
13800.00	13756.60	90.00	266.68	7008.00	184.02	52.56	91.71	1774.41	1408.90	4.85	
13900.00	13856.59	90.00	266.68	7008.00	186.79	53.28	91.71	1773.79	1402.75	4.78	
14000.00	13956.59	90.00	266.68	7008.00	189.56	54.00	91.71	1773.17	1396.60	4.71	
14100.00	14056.59	90.00	266.68	7008.00	192.33	54.73	91.71	1772.56	1390.45	4.64	
14200.00	14156.59	90.00	266.68	7008.00	195.10	55.45	91.71	1771.94	1384.30	4.57	
14300.00	14256.59	90.00	266.68	7008.00	197.87	56.18	91.71	1771.32	1378.14	4.51	
14400.00	14356.58	90.00	266.68	7008.00	200.64	56.90	91.72	1770.70	1371.98	4.44	
14500.00	14456.58	90.00	266.68	7008.00	203.41	57.63	91.72	1770.09	1365.83	4.38	
14600.00	14556.58	90.00	266.68	7008.00	206.18	58.35	91.72	1769.47	1359.67	4.32	
14700.00	14656.58	90.00	266.68	7008.00	208.96	59.08	91.72	1768.85	1353.50	4.26	
14800.00	14756.58	90.00	266.68	7008.00	211.73	59.81	91.72	1768.24	1347.34	4.20	
14900.00	14856.57	90.00	266.68	7008.00	214.50	60.53	91.72	1767.62	1341.18	4.15	
15000.00	14956.57	90.00	266.68	7008.00	217.28	61.26	91.72	1767.00	1335.01	4.09	
15100.00	15056.57	90.00	266.68	7008.00	220.06	61.98	91.72	1766.38	1328.85	4.04	
15200.00	15156.57	90.00	266.68	7008.00	222.83	62.71	91.72	1765.77	1322.68	3.99	
15300.00	15256.57	90.00	266.68	7008.00	225.61	63.44	91.72	1765.15	1316.51	3.93	
15400.00	15356.56	90.00	266.68	7008.00	228.39	64.16	91.72	1764.53	1310.34	3.89	
15500.00	15456.56	90.00	266.68	7008.00	231.16	64.89	91.72	1763.91	1304.17	3.84	
15600.00	15501.26	90.00	266.68	7008.00	232.41	65.22	91.72	1764.16	1301.02	3.81	
15628.56	15501.26	90.00	266.68	7008.00	232.41	65.22	91.72	1765.11	1301.68	3.81	
Secondary Well: Goetzel 12N-30A-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	140.26	139.53	191.27	
100.00	100.00	0.00	0.00	100.00	0.11	0.11	0.01	140.26	139.31	147.03	
200.00	200.00	0.00	0.00	200.00	0.34	0.34	0.01	140.26	138.86	99.94	
300.00	300.00	0.00	0.00	300.00	0.56	0.56	0.01	140.26	138.41	75.69	
400.00	400.00	0.00	0.00	400.00	0.79	0.79	0.01	140.26	137.96	60.91	
500.00	500.00	0.00	0.00	500.00	1.01	1.01	218.88	140.60	137.86	51.32	
600.00	599.93	0.00	0.00	599.93	1.24	1.24	218.03	143.33	140.18	45.50	
700.00	699.68	0.00	0.00	699.68	1.46	1.46	216.45	148.89	145.31	41.56	
800.00	799.13	0.00	0.00	799.13	1.68	1.68	214.29	157.43	153.41	39.08	
900.00	898.15	0.00	0.00	898.15	1.91	1.91	211.76	169.14	164.64	37.64	
1000.00	996.63	0.00	0.00	996.63	2.13	2.13	209.07	184.18	179.20	37.04	
1100.00	1094.44	0.00	0.00	1094.44	2.35	2.35	206.40	202.67	197.21	37.13	
1200.00	1191.46	0.00	0.00	1191.46	2.57	2.57	203.85	224.69	218.75	37.81	
1300.00	1287.58	0.00	0.00	1287.58	2.78	2.78	201.50	250.28	243.82	38.78	
1400.00	1382.68	0.00	0.00	1382.68	3.00	3.00	199.39	279.41	272.46	40.24	
1500.00	1478.40	0.57	100.92	1478.40	3.21	3.21	197.46	311.85	304.40	41.84	
1600.00	1579.28	2.59	100.92	1579.24	3.41	3.40	196.01	344.01	336.06	43.25	
1700.00	1681.88	4.64	100.92	1681.62	3.61	3.60	195.28	374.36	365.90	44.28	

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
1800.00	1785.96	6.72	100.92	1785.19	3.84	3.80	195.10	402.73	393.74	44.79	
1900.00	1891.27	8.83	100.92	1889.53	4.09	4.00	195.38	429.07	419.50	44.86	
2000.00	1997.56	10.95	100.92	1994.23	4.38	4.21	196.04	453.37	443.18	44.49	
2100.00	2104.54	13.09	100.92	2098.86	4.71	4.42	197.04	475.69	464.79	43.64	
2200.00	2211.91	15.24	100.92	2202.96	5.11	4.64	198.34	496.14	484.45	42.43	
2300.00	2317.03	16.88	100.92	2303.88	5.55	4.87	199.87	514.93	502.38	41.03	
2400.00	2414.45	16.88	100.92	2397.10	6.01	5.10	201.29	533.48	520.07	39.79	
2500.00	2511.87	16.88	100.92	2490.32	6.49	5.34	202.61	552.32	537.98	38.52	
2600.00	2609.29	16.88	100.92	2583.55	7.00	5.59	203.85	571.43	556.09	37.26	
2700.00	2706.71	16.88	100.92	2676.77	7.51	5.84	205.01	590.79	574.43	36.12	
2800.00	2804.13	16.88	100.92	2769.99	8.05	6.10	206.09	610.36	592.97	35.10	
2900.00	2901.56	16.88	100.92	2863.21	8.59	6.36	207.11	630.14	611.71	34.19	
3000.00	2998.98	16.88	100.92	2956.44	9.14	6.62	208.07	650.09	630.61	33.36	
3100.00	3096.40	16.88	100.92	3049.66	9.69	6.88	208.96	670.22	649.64	32.56	
3200.00	3193.82	16.88	100.92	3142.88	10.26	7.15	209.81	690.49	668.80	31.83	
3300.00	3291.24	16.88	100.92	3236.10	10.82	7.42	210.61	710.90	688.09	31.16	
3400.00	3388.66	16.88	100.92	3329.33	11.40	7.69	211.37	731.44	707.49	30.54	
3500.00	3486.08	16.88	100.92	3422.55	11.97	7.97	212.08	752.09	726.99	29.96	
3600.00	3583.51	16.88	100.92	3515.77	12.55	8.24	212.76	772.85	746.59	29.43	
3700.00	3680.93	16.88	100.92	3608.99	13.13	8.52	213.40	793.71	766.29	28.94	
3800.00	3778.35	16.88	100.92	3702.22	13.71	8.80	214.01	814.66	786.07	28.50	
3900.00	3875.77	16.88	100.92	3795.44	14.30	9.08	214.58	835.70	805.94	28.09	
4000.00	3973.19	16.88	100.92	3888.66	14.89	9.36	215.13	856.81	825.88	27.71	
4100.00	4070.61	16.88	100.92	3981.88	15.48	9.64	215.66	877.99	845.90	27.36	
4200.00	4168.03	16.88	100.92	4075.11	16.07	9.92	216.16	899.24	865.97	27.03	
4300.00	4265.46	16.88	100.92	4168.33	16.66	10.21	216.63	920.55	886.08	26.70	
4400.00	4362.88	16.88	100.92	4261.55	17.25	10.49	217.09	941.93	906.25	26.40	
4500.00	4460.30	16.88	100.92	4354.77	17.85	10.77	217.52	963.35	926.47	26.12	
4600.00	4557.72	16.88	100.92	4448.00	18.44	11.06	217.94	984.83	946.74	25.86	
4700.00	4655.14	16.88	100.92	4541.22	19.04	11.35	218.33	1006.35	967.06	25.61	
4800.00	4752.56	16.88	100.92	4634.44	19.64	11.63	218.71	1027.92	987.42	25.38	
4900.00	4849.98	16.88	100.92	4727.66	20.23	11.92	219.08	1049.53	1007.82	25.16	
5000.00	4947.41	16.88	100.92	4820.88	20.83	12.21	219.43	1071.18	1028.26	24.96	
5100.00	5044.83	16.88	100.92	4914.11	21.43	12.50	219.77	1092.87	1048.74	24.77	
5200.00	5142.25	16.88	100.92	5007.33	22.03	12.78	220.09	1114.59	1069.25	24.59	
5300.00	5239.67	16.88	100.92	5100.55	22.63	13.07	220.40	1136.34	1089.80	24.41	
5400.00	5337.09	16.88	100.92	5193.77	23.23	13.36	220.70	1158.13	1110.37	24.25	
5500.00	5434.51	16.88	100.92	5287.00	23.83	13.65	220.99	1179.94	1130.98	24.10	
5600.00	5531.93	16.88	100.92	5380.22	24.43	13.94	221.27	1201.78	1151.61	23.95	
5700.00	5629.36	16.88	100.92	5473.44	25.03	14.23	221.54	1223.65	1172.27	23.81	
5800.00	5726.78	16.88	100.92	5566.66	25.63	14.52	221.80	1245.54	1192.95	23.68	
5900.00	5824.20	16.88	100.92	5659.89	26.24	14.81	222.05	1267.46	1213.65	23.56	
6000.00	5921.62	16.88	100.92	5753.11	26.84	15.10	222.29	1289.40	1234.38	23.44	
6100.00	6019.04	16.88	100.92	5846.33	27.44	15.40	222.52	1311.36	1255.13	23.32	
6200.00	6122.47	14.28	103.61	5945.52	28.01	15.71	222.73	1333.27	1275.85	23.22	
6300.00	6240.69	5.90	131.25	6061.86	28.32	15.82	222.34	1354.07	1295.83	23.25	
6400.00	6353.74	6.32	226.85	6174.50	28.36	15.56	221.21	1373.67	1315.18	23.48	
6500.00	6457.29	13.71	250.14	6276.44	28.21	15.00	212.24	1392.99	1334.72	23.91	
6600.00	6554.13	21.22	256.60	6368.76	27.95	14.24	184.91	1413.53	1355.88	24.52	
6700.00	6646.36	28.49	259.65	6452.39	27.64	13.33	156.42	1435.16	1378.29	25.24	
6800.00	6734.85	35.50	261.47	6527.39	27.33	12.33	134.71	1457.31	1401.27	26.01	
6900.00	6820.30	42.29	262.72	6593.86	27.06	11.31	120.09	1479.40	1424.10	26.75	
7000.00	6903.32	48.90	263.66	6651.91	26.84	10.35	110.07	1500.86	1446.21	27.46	
7100.00	6984.35	55.36	264.40	6701.63	26.75	9.53	102.85	1521.14	1466.94	28.06	
7200.00	7063.77	61.69	265.03	6743.08	26.79	8.95	97.46	1539.72	1485.70	28.50	
7300.00	7141.89	67.92	265.58	6776.32	26.96	8.70	93.37	1556.15	1502.02	28.75	
7400.00	7218.94	74.07	266.07	6801.41	27.27	8.81	90.27	1570.04	1515.47	28.77	
7500.00	7295.13	80.14	266.53	6818.40	27.72	9.28	87.99	1581.05	1525.69	28.56	

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
7600.00	7370.61	86.17	266.97	6827.39	28.33	10.04	86.44	1588.92	1532.33	28.08	
7700.00	7454.48	90.00	267.24	6829.00	29.12	10.81	85.56	1593.36	1535.14	27.37	
7800.00	7554.46	90.00	267.24	6829.00	30.25	11.30	85.47	1594.09	1533.81	26.45	
7900.00	7654.46	90.00	267.24	6829.00	31.59	11.81	85.47	1594.45	1531.75	25.43	
8000.00	7754.46	90.00	267.24	6829.00	33.10	12.35	85.47	1594.82	1529.32	24.35	
8100.00	7854.46	90.00	267.24	6829.00	34.78	12.90	85.47	1595.19	1526.54	23.24	
8200.00	7954.46	90.00	267.24	6829.00	36.59	13.47	85.47	1595.55	1523.46	22.13	
8300.00	8054.46	90.00	267.24	6829.00	38.53	14.06	85.47	1595.92	1520.22	21.08	
8400.00	8154.46	90.00	267.24	6829.00	40.56	14.66	85.47	1596.28	1516.60	20.03	
8500.00	8254.46	90.00	267.24	6829.00	42.68	15.27	85.47	1596.65	1512.99	19.08	
8600.00	8354.46	90.00	267.24	6829.00	44.88	15.89	85.47	1597.01	1509.09	18.16	
8700.00	8454.46	90.00	267.24	6829.00	47.14	16.53	85.48	1597.38	1504.92	17.28	
8800.00	8554.46	90.00	267.24	6829.00	49.45	17.17	85.48	1597.75	1500.81	16.48	
8900.00	8654.46	90.00	267.24	6829.00	51.82	17.81	85.48	1598.11	1496.59	15.74	
9000.00	8754.46	90.00	267.24	6829.00	54.22	18.47	85.48	1598.48	1492.26	15.05	
9100.00	8854.46	90.00	267.24	6829.00	56.66	19.13	85.48	1598.84	1487.81	14.40	
9200.00	8954.45	90.00	267.24	6829.00	59.14	19.79	85.48	1599.21	1483.29	13.80	
9300.00	9054.45	90.00	267.24	6829.00	61.64	20.46	85.48	1599.57	1478.71	13.23	
9400.00	9154.45	90.00	267.24	6829.00	64.16	21.13	85.48	1599.94	1474.09	12.71	
9500.00	9254.45	90.00	267.24	6829.00	66.71	21.81	85.48	1600.30	1469.41	12.23	
9600.00	9354.45	90.00	267.24	6829.00	69.28	22.49	85.49	1600.67	1464.67	11.77	
9700.00	9454.45	90.00	267.24	6829.00	71.86	23.17	85.49	1601.04	1459.90	11.34	
9800.00	9554.45	90.00	267.24	6829.00	74.46	23.86	85.49	1601.40	1455.10	10.95	
9900.00	9654.45	90.00	267.24	6829.00	77.08	24.55	85.49	1601.77	1450.26	10.57	
10000.00	9754.45	90.00	267.24	6829.00	79.71	25.24	85.49	1602.13	1445.40	10.22	
10100.00	9854.45	90.00	267.24	6829.00	82.35	25.94	85.49	1602.50	1440.51	9.89	
10200.00	9954.45	90.00	267.24	6829.00	84.99	26.63	85.49	1602.86	1435.60	9.58	
10300.00	10054.45	90.00	267.24	6829.00	87.65	27.33	85.49	1603.23	1430.67	9.29	
10400.00	10154.45	90.00	267.24	6829.00	90.32	28.03	85.49	1603.60	1425.72	9.02	
10500.00	10254.45	90.00	267.24	6829.00	93.00	28.73	85.49	1603.96	1420.76	8.76	
10600.00	10354.45	90.00	267.24	6829.00	95.68	29.44	85.50	1604.33	1415.78	8.51	
10700.00	10454.44	90.00	267.24	6829.00	98.37	30.14	85.50	1604.69	1410.79	8.28	
10800.00	10554.44	90.00	267.24	6829.00	101.06	30.85	85.50	1605.06	1405.79	8.05	
10900.00	10654.44	90.00	267.24	6829.00	103.76	31.56	85.50	1605.42	1400.77	7.84	
11000.00	10754.44	90.00	267.24	6829.00	106.47	32.26	85.50	1605.79	1395.75	7.65	
11100.00	10854.44	90.00	267.24	6829.00	109.18	32.97	85.50	1606.16	1390.71	7.46	
11200.00	10954.44	90.00	267.24	6829.00	111.89	33.68	85.50	1606.52	1385.67	7.27	
11300.00	11054.44	90.00	267.24	6829.00	114.61	34.40	85.50	1606.89	1380.61	7.10	
11400.00	11154.44	90.00	267.24	6829.00	117.33	35.11	85.50	1607.25	1375.55	6.94	
11500.00	11254.44	90.00	267.24	6829.00	120.06	35.82	85.50	1607.62	1370.48	6.78	
11600.00	11354.44	90.00	267.24	6829.00	122.79	36.54	85.51	1607.98	1365.41	6.63	
11700.00	11454.44	90.00	267.24	6829.00	125.52	37.25	85.51	1608.35	1360.33	6.48	
11800.00	11554.44	90.00	267.24	6829.00	128.26	37.97	85.51	1608.72	1355.24	6.35	
11900.00	11654.44	90.00	267.24	6829.00	131.00	38.68	85.51	1609.08	1350.15	6.21	
12000.00	11754.44	90.00	267.24	6829.00	133.74	39.40	85.51	1609.45	1345.05	6.09	
12100.00	11854.44	90.00	267.24	6829.00	136.48	40.12	85.51	1609.81	1339.95	5.97	
12200.00	11954.43	90.00	267.24	6829.00	139.23	40.84	85.51	1610.18	1334.84	5.85	
12300.00	12054.43	90.00	267.24	6829.00	141.98	41.55	85.51	1610.54	1329.73	5.74	
12400.00	12154.43	90.00	267.24	6829.00	144.73	42.27	85.51	1610.91	1324.61	5.63	
12500.00	12254.43	90.00	267.24	6829.00	147.48	42.99	85.51	1611.27	1319.49	5.52	
12600.00	12354.43	90.00	267.24	6829.00	150.23	43.71	85.52	1611.64	1314.37	5.42	
12700.00	12454.43	90.00	267.24	6829.00	152.99	44.43	85.52	1612.01	1309.24	5.32	
12800.00	12554.43	90.00	267.24	6829.00	155.74	45.15	85.52	1612.37	1304.11	5.23	
12900.00	12654.43	90.00	267.24	6829.00	158.50	45.88	85.52	1612.74	1298.98	5.14	
13000.00	12754.43	90.00	267.24	6829.00	161.26	46.60	85.52	1613.10	1293.84	5.05	
13100.00	12854.43	90.00	267.24	6829.00	164.02	47.32	85.52	1613.47	1288.70	4.97	
13200.00	12954.43	90.00	267.24	6829.00	166.79	48.04	85.52	1613.83	1283.56	4.89	
13300.00	13054.43	90.00	267.24	6829.00	169.55	48.76	85.52	1614.20	1278.42	4.81	

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
13400.00	13154.43	90.00	267.24	6829.00	172.32	49.49	85.52	1614.57	1273.27	4.73	
13500.00	13254.43	90.00	267.24	6829.00	175.08	50.21	85.53	1614.93	1268.12	4.66	
13600.00	13354.43	90.00	267.24	6829.00	177.85	50.93	85.53	1615.30	1262.97	4.58	
13700.00	13454.42	90.00	267.24	6829.00	180.62	51.66	85.53	1615.66	1257.81	4.51	
13800.00	13554.42	90.00	267.24	6829.00	183.39	52.38	85.53	1616.03	1252.66	4.45	
13900.00	13654.42	90.00	267.24	6829.00	186.16	53.11	85.53	1616.39	1247.50	4.38	
14000.00	13754.42	90.00	267.24	6829.00	188.93	53.83	85.53	1616.76	1242.34	4.32	
14100.00	13854.42	90.00	267.24	6829.00	191.70	54.56	85.53	1617.13	1237.18	4.26	
14200.00	13954.42	90.00	267.24	6829.00	194.47	55.28	85.53	1617.49	1232.02	4.20	
14300.00	14054.42	90.00	267.24	6829.00	197.25	56.01	85.53	1617.86	1226.86	4.14	
14400.00	14154.42	90.00	267.24	6829.00	200.02	56.73	85.53	1618.22	1221.69	4.08	
14500.00	14254.42	90.00	267.24	6829.00	202.80	57.46	85.54	1618.59	1216.52	4.03	
14600.00	14354.42	90.00	267.24	6829.00	205.57	58.18	85.54	1618.95	1211.35	3.97	
14700.00	14454.42	90.00	267.24	6829.00	208.35	58.91	85.54	1619.32	1206.18	3.92	
14800.00	14554.42	90.00	267.24	6829.00	211.13	59.64	85.54	1619.69	1201.01	3.87	
14900.00	14654.42	90.00	267.24	6829.00	213.90	60.36	85.54	1620.05	1195.84	3.82	
15000.00	14754.42	90.00	267.24	6829.00	216.68	61.09	85.54	1620.42	1190.67	3.77	
15100.00	14854.42	90.00	267.24	6829.00	219.46	61.82	85.54	1620.78	1185.49	3.72	
15200.00	14954.41	90.00	267.24	6829.00	222.24	62.54	85.54	1621.15	1180.32	3.68	
15300.00	15054.41	90.00	267.24	6829.00	225.02	63.27	85.54	1621.51	1175.14	3.63	
15400.00	15154.41	90.00	267.24	6829.00	227.80	64.00	85.54	1621.88	1169.96	3.59	
15500.00	15254.41	90.00	267.24	6829.00	230.58	64.72	85.55	1622.25	1164.78	3.55	
15600.00	15322.07	90.00	267.24	6829.00	232.46	65.22	85.55	1622.93	1161.23	3.52	
15628.56	15322.07	90.00	267.24	6829.00	232.46	65.22	85.55	1623.86	1161.88	3.52	
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	359.95	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	218.80	120.56	117.82	44.01	
600.00	599.93	0.00	0.00	599.93	1.24	1.24	217.82	123.30	120.15	39.15	
700.00	699.68	0.00	0.00	699.68	1.46	1.46	215.98	128.89	125.30	35.98	
800.00	799.13	0.00	0.00	799.13	1.68	1.68	213.52	137.49	133.46	34.13	
900.00	898.15	0.00	0.00	898.15	1.91	1.91	210.70	149.31	144.82	33.25	
1000.00	996.63	0.00	0.00	996.63	2.13	2.13	207.77	164.53	159.56	33.14	
1100.00	1094.44	0.00	0.00	1094.44	2.35	2.35	204.91	183.25	177.80	33.66	
1200.00	1191.46	0.00	0.00	1191.46	2.57	2.57	202.25	205.53	199.59	34.64	
1300.00	1287.58	0.00	0.00	1287.58	2.78	2.78	199.86	231.38	224.94	35.94	
1400.00	1387.79	1.76	107.85	1387.78	2.99	2.99	197.87	259.97	253.06	37.61	
1500.00	1489.40	3.79	107.85	1489.27	3.19	3.18	196.58	289.69	282.26	38.99	
1600.00	1592.46	5.85	107.85	1591.96	3.41	3.38	195.87	318.09	310.15	40.06	
1700.00	1697.05	7.94	107.85	1695.78	3.64	3.58	195.77	344.19	335.71	40.58	
1800.00	1802.91	10.06	107.85	1800.33	3.92	3.79	196.14	367.92	358.85	40.54	
1900.00	1909.78	12.20	107.85	1905.19	4.24	4.00	196.91	389.30	379.58	40.06	
2000.00	2017.38	14.35	107.85	2009.90	4.62	4.22	198.04	408.37	397.93	39.11	
2100.00	2124.31	16.27	107.85	2112.98	5.05	4.44	199.48	425.28	414.03	37.82	
2200.00	2222.45	16.27	107.85	2207.19	5.50	4.68	200.85	441.50	429.41	36.55	
2300.00	2320.59	16.27	107.85	2301.40	5.98	4.92	202.12	457.95	445.00	35.38	
2400.00	2418.73	16.27	107.85	2395.61	6.47	5.17	203.31	474.60	460.73	34.23	
2500.00	2516.87	16.27	107.85	2489.82	6.98	5.42	204.41	491.44	476.62	33.15	
2600.00	2615.01	16.27	107.85	2584.03	7.50	5.68	205.44	508.45	492.65	32.18	
2700.00	2713.15	16.27	107.85	2678.23	8.04	5.93	206.41	525.61	508.82	31.31	
2800.00	2811.29	16.27	107.85	2772.44	8.58	6.20	207.31	542.91	525.10	30.48	
2900.00	2909.43	16.27	107.85	2866.65	9.12	6.46	208.16	560.33	541.48	29.74	

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
3000.00	3007.57	16.27	107.85	2960.86	9.68	6.73	208.96	577.86	557.95	29.02	
3100.00	3105.71	16.27	107.85	3055.07	10.23	7.00	209.71	595.49	574.50	28.36	
3200.00	3203.85	16.27	107.85	3149.27	10.79	7.27	210.41	613.22	591.13	27.76	
3300.00	3301.99	16.27	107.85	3243.48	11.36	7.55	211.08	631.04	607.85	27.21	
3400.00	3400.13	16.27	107.85	3337.69	11.92	7.82	211.71	648.93	624.64	26.72	
3500.00	3498.27	16.27	107.85	3431.90	12.49	8.10	212.31	666.90	641.50	26.26	
3600.00	3596.41	16.27	107.85	3526.11	13.07	8.38	212.88	684.93	658.42	25.84	
3700.00	3694.55	16.27	107.85	3620.32	13.64	8.65	213.41	703.02	675.40	25.45	
3800.00	3792.69	16.27	107.85	3714.52	14.22	8.93	213.92	721.18	692.44	25.09	
3900.00	3890.83	16.27	107.85	3808.73	14.79	9.22	214.41	739.38	709.52	24.76	
4000.00	3988.97	16.27	107.85	3902.94	15.37	9.50	214.87	757.63	726.65	24.45	
4100.00	4087.11	16.27	107.85	3997.15	15.95	9.78	215.31	775.93	743.83	24.17	
4200.00	4185.25	16.27	107.85	4091.36	16.53	10.06	215.73	794.27	761.03	23.89	
4300.00	4283.39	16.27	107.85	4185.57	17.11	10.35	216.13	812.65	778.26	23.63	
4400.00	4381.53	16.27	107.85	4279.77	17.69	10.63	216.52	831.07	795.51	23.37	
4500.00	4479.67	16.27	107.85	4373.98	18.28	10.92	216.88	849.53	812.79	23.12	
4600.00	4577.81	16.27	107.85	4468.19	18.86	11.20	217.23	868.01	830.10	22.89	
4700.00	4675.95	16.27	107.85	4562.40	19.44	11.49	217.57	886.53	847.44	22.68	
4800.00	4774.09	16.27	107.85	4656.61	20.03	11.77	217.89	905.07	864.80	22.48	
4900.00	4872.23	16.27	107.85	4750.81	20.61	12.06	218.20	923.64	882.20	22.29	
5000.00	4970.37	16.27	107.85	4845.02	21.20	12.35	218.50	942.23	899.62	22.11	
5100.00	5068.51	16.27	107.85	4939.23	21.78	12.63	218.79	960.85	917.06	21.94	
5200.00	5166.65	16.27	107.85	5033.44	22.37	12.92	219.06	979.50	934.52	21.78	
5300.00	5264.79	16.27	107.85	5127.65	22.96	13.21	219.33	998.16	952.00	21.63	
5400.00	5362.93	16.27	107.85	5221.86	23.54	13.50	219.58	1016.84	969.50	21.48	
5500.00	5461.07	16.27	107.85	5316.06	24.13	13.79	219.83	1035.54	987.02	21.34	
5600.00	5559.21	16.27	107.85	5410.27	24.72	14.08	220.07	1054.26	1004.56	21.21	
5700.00	5657.35	16.27	107.85	5504.48	25.31	14.36	220.30	1073.00	1022.12	21.09	
5800.00	5755.49	16.27	107.85	5598.69	25.90	14.65	220.52	1091.75	1039.69	20.97	
5900.00	5853.63	16.27	107.85	5692.90	26.48	14.94	220.73	1110.52	1057.27	20.86	
6000.00	5951.77	16.27	107.85	5787.10	27.07	15.23	220.94	1129.30	1074.87	20.75	
6100.00	6049.91	16.27	107.85	5881.31	27.66	15.52	221.14	1148.09	1092.48	20.64	
6200.00	6148.05	16.27	107.85	5975.52	28.25	15.81	221.33	1166.90	1110.11	20.55	
6300.00	6251.36	13.96	111.85	6074.87	28.82	16.12	221.50	1185.66	1127.69	20.45	
6400.00	6368.01	6.92	148.32	6189.63	29.11	16.24	221.01	1203.30	1144.60	20.50	
6500.00	6479.51	8.34	219.31	6300.35	29.05	16.01	212.49	1219.87	1161.13	20.77	
6600.00	6585.81	15.42	243.43	6404.36	28.78	15.47	185.67	1236.79	1178.55	21.24	
6700.00	6687.98	23.14	251.77	6500.75	28.37	14.68	157.67	1254.13	1196.67	21.83	
6800.00	6786.53	30.80	255.94	6588.53	27.89	13.70	136.43	1271.51	1214.97	22.49	
6900.00	6881.92	38.29	258.49	6667.05	27.43	12.60	122.25	1288.57	1232.80	23.11	
7000.00	6974.58	45.61	260.27	6735.92	27.04	11.47	112.63	1304.90	1249.86	23.71	
7100.00	7064.89	52.76	261.62	6794.91	26.78	10.42	105.76	1320.12	1265.66	24.24	
7200.00	7153.18	59.76	262.72	6843.92	26.68	9.57	100.68	1333.87	1279.75	24.65	
7300.00	7239.74	66.64	263.64	6882.92	26.77	9.06	96.83	1345.81	1291.72	24.88	
7400.00	7324.81	73.40	264.47	6911.97	27.05	8.99	93.92	1355.66	1301.16	24.87	
7500.00	7408.59	80.06	265.22	6931.19	27.52	9.40	91.78	1363.16	1307.73	24.59	
7600.00	7491.28	86.64	265.94	6940.76	28.16	10.23	90.32	1368.13	1311.34	24.09	
7700.00	7581.80	90.00	266.30	6942.00	29.02	10.99	89.50	1370.27	1311.82	23.44	
7800.00	7681.78	90.00	266.30	6942.00	30.16	11.48	89.46	1369.28	1308.84	22.65	
7900.00	7781.77	90.00	266.30	6942.00	31.50	11.99	89.46	1368.00	1305.20	21.78	
8000.00	7881.77	90.00	266.30	6942.00	33.03	12.52	89.45	1366.72	1301.07	20.82	
8100.00	7981.76	90.00	266.30	6942.00	34.71	13.07	89.45	1365.44	1296.58	19.83	
8200.00	8081.75	90.00	266.30	6942.00	36.52	13.64	89.45	1364.15	1291.73	18.83	
8300.00	8181.74	90.00	266.30	6942.00	38.46	14.23	89.45	1362.87	1286.80	17.92	
8400.00	8281.73	90.00	266.30	6942.00	40.49	14.83	89.45	1361.59	1281.44	16.99	
8500.00	8381.73	90.00	266.30	6942.00	42.62	15.44	89.45	1360.31	1276.10	16.15	
8600.00	8481.72	90.00	266.30	6942.00	44.81	16.06	89.45	1359.02	1270.53	15.36	
8700.00	8581.71	90.00	266.30	6942.00	47.07	16.69	89.45	1357.74	1264.64	14.58	

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
8800.00	8681.70	90.00	266.30	6942.00	49.38	17.33	89.45	1356.46	1258.82	13.89	
8900.00	8781.69	90.00	266.30	6942.00	51.75	17.98	89.45	1355.18	1252.91	13.25	
9000.00	8881.68	90.00	266.30	6942.00	54.15	18.63	89.45	1353.90	1246.91	12.65	
9100.00	8981.68	90.00	266.30	6942.00	56.59	19.29	89.45	1352.61	1240.81	12.10	
9200.00	9081.67	90.00	266.30	6942.00	59.06	19.95	89.45	1351.33	1234.63	11.58	
9300.00	9181.66	90.00	266.30	6942.00	61.56	20.62	89.45	1350.05	1228.39	11.10	
9400.00	9281.65	90.00	266.30	6942.00	64.08	21.29	89.45	1348.77	1222.09	10.65	
9500.00	9381.64	90.00	266.30	6942.00	66.63	21.97	89.45	1347.48	1215.74	10.23	
9600.00	9481.63	90.00	266.30	6942.00	69.19	22.65	89.45	1346.20	1209.34	9.84	
9700.00	9581.63	90.00	266.30	6942.00	71.77	23.33	89.45	1344.92	1202.91	9.47	
9800.00	9681.62	90.00	266.30	6942.00	74.37	24.02	89.45	1343.64	1196.45	9.13	
9900.00	9781.61	90.00	266.30	6942.00	76.98	24.71	89.45	1342.35	1189.95	8.81	
10000.00	9881.60	90.00	266.30	6942.00	79.61	25.40	89.44	1341.07	1183.43	8.51	
10100.00	9981.59	90.00	266.30	6942.00	82.24	26.09	89.44	1339.79	1176.88	8.22	
10200.00	10081.59	90.00	266.30	6942.00	84.89	26.79	89.44	1338.51	1170.31	7.96	
10300.00	10181.58	90.00	266.30	6942.00	87.54	27.49	89.44	1337.22	1163.73	7.71	
10400.00	10281.57	90.00	266.30	6942.00	90.20	28.19	89.44	1335.94	1157.12	7.47	
10500.00	10381.56	90.00	266.30	6942.00	92.87	28.89	89.44	1334.66	1150.50	7.25	
10600.00	10481.55	90.00	266.30	6942.00	95.55	29.59	89.44	1333.38	1143.86	7.04	
10700.00	10581.54	90.00	266.30	6942.00	98.24	30.29	89.44	1332.09	1137.21	6.84	
10800.00	10681.54	90.00	266.30	6942.00	100.93	31.00	89.44	1330.81	1130.55	6.65	
10900.00	10781.53	90.00	266.30	6942.00	103.62	31.71	89.44	1329.53	1123.88	6.46	
11000.00	10881.52	90.00	266.30	6942.00	106.33	32.41	89.44	1328.25	1117.19	6.29	
11100.00	10981.51	90.00	266.30	6942.00	109.03	33.12	89.44	1326.96	1110.50	6.13	
11200.00	11081.50	90.00	266.30	6942.00	111.74	33.83	89.44	1325.68	1103.80	5.97	
11300.00	11181.49	90.00	266.30	6942.00	114.46	34.54	89.44	1324.40	1097.09	5.83	
11400.00	11281.49	90.00	266.30	6942.00	117.18	35.26	89.44	1323.12	1090.37	5.68	
11500.00	11381.48	90.00	266.30	6942.00	119.90	35.97	89.44	1321.83	1083.64	5.55	
11600.00	11481.47	90.00	266.30	6942.00	122.62	36.68	89.44	1320.55	1076.91	5.42	
11700.00	11581.46	90.00	266.30	6942.00	125.35	37.40	89.44	1319.27	1070.17	5.30	
11800.00	11681.45	90.00	266.30	6942.00	128.08	38.11	89.43	1317.99	1063.42	5.18	
11900.00	11781.45	90.00	266.30	6942.00	130.82	38.83	89.43	1316.70	1056.67	5.06	
12000.00	11881.44	90.00	266.30	6942.00	133.55	39.54	89.43	1315.42	1049.92	4.95	
12100.00	11981.43	90.00	266.30	6942.00	136.29	40.26	89.43	1314.14	1043.16	4.85	
12200.00	12081.42	90.00	266.30	6942.00	139.03	40.98	89.43	1312.86	1036.39	4.75	
12300.00	12181.41	90.00	266.30	6942.00	141.78	41.70	89.43	1311.58	1029.62	4.65	
12400.00	12281.40	90.00	266.30	6942.00	144.52	42.42	89.43	1310.29	1022.85	4.56	
12500.00	12381.40	90.00	266.30	6942.00	147.27	43.14	89.43	1309.01	1016.07	4.47	
12600.00	12481.39	90.00	266.30	6942.00	150.02	43.85	89.43	1307.73	1009.29	4.38	
12700.00	12581.38	90.00	266.30	6942.00	152.77	44.57	89.43	1306.45	1002.50	4.30	
12800.00	12681.37	90.00	266.30	6942.00	155.52	45.30	89.43	1305.16	995.71	4.22	
12900.00	12781.36	90.00	266.30	6942.00	158.28	46.02	89.43	1303.88	988.92	4.14	
13000.00	12881.36	90.00	266.30	6942.00	161.03	46.74	89.43	1302.60	982.13	4.06	
13100.00	12981.35	90.00	266.30	6942.00	163.79	47.46	89.43	1301.32	975.33	3.99	
13200.00	13081.34	90.00	266.30	6942.00	166.55	48.18	89.43	1300.03	968.53	3.92	
13300.00	13181.33	90.00	266.30	6942.00	169.31	48.90	89.43	1298.75	961.73	3.85	
13400.00	13281.32	90.00	266.30	6942.00	172.07	49.63	89.43	1297.47	954.92	3.79	
13500.00	13381.31	90.00	266.30	6942.00	174.83	50.35	89.43	1296.19	948.11	3.72	
13600.00	13481.31	90.00	266.30	6942.00	177.59	51.07	89.42	1294.90	941.31	3.66	
13700.00	13581.30	90.00	266.30	6942.00	180.35	51.80	89.42	1293.62	934.49	3.60	
13800.00	13681.29	90.00	266.30	6942.00	183.12	52.52	89.42	1292.34	927.68	3.54	
13900.00	13781.28	90.00	266.30	6942.00	185.88	53.24	89.42	1291.06	920.87	3.49	
14000.00	13881.27	90.00	266.30	6942.00	188.65	53.97	89.42	1289.77	914.05	3.43	
14100.00	13981.26	90.00	266.30	6942.00	191.42	54.69	89.42	1288.49	907.23	3.38	
14200.00	14081.26	90.00	266.30	6942.00	194.18	55.42	89.42	1287.21	900.41	3.33	
14300.00	14181.25	90.00	266.30	6942.00	196.95	56.14	89.42	1285.93	893.59	3.28	
14400.00	14281.24	90.00	266.30	6942.00	199.72	56.87	89.42	1284.64	886.76	3.23	
14500.00	14381.23	90.00	266.30	6942.00	202.49	57.59	89.42	1283.36	879.94	3.18	

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
14600.00	14481.22	90.00	266.30	6942.00	205.26	58.32	89.42	1282.08	873.11	3.13	
14700.00	14581.22	90.00	266.30	6942.00	208.04	59.04	89.42	1280.80	866.28	3.09	
14800.00	14681.21	90.00	266.30	6942.00	210.81	59.77	89.42	1279.51	859.45	3.05	
14900.00	14781.20	90.00	266.30	6942.00	213.58	60.50	89.42	1278.23	852.62	3.00	
15000.00	14881.19	90.00	266.30	6942.00	216.35	61.22	89.42	1276.95	845.79	2.96	
15100.00	14981.18	90.00	266.30	6942.00	219.13	61.95	89.42	1275.67	838.96	2.92	
15200.00	15081.17	90.00	266.30	6942.00	221.90	62.68	89.42	1274.38	832.13	2.88	
15300.00	15181.17	90.00	266.30	6942.00	224.68	63.40	89.41	1273.10	825.29	2.84	
15400.00	15281.16	90.00	266.30	6942.00	227.45	64.13	89.41	1271.82	818.45	2.81	
15500.00	15381.15	90.00	266.30	6942.00	230.23	64.86	89.41	1270.54	811.62	2.77	
15600.00	15440.87	90.00	266.30	6942.00	231.89	65.29	89.41	1269.89	807.21	2.74	
15628.56	15440.87	90.00	266.30	6942.00	231.89	65.29	89.41	1270.75	808.03	2.75	

Secondary Well: Goetzel 33C-30-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	100.19	99.45	136.62	
100.00	100.00	0.00	0.00	100.00	0.11	0.11	0.03	100.19	99.23	105.02	
200.00	200.00	0.00	0.00	200.00	0.34	0.34	0.03	100.19	98.78	71.38	
300.00	300.00	0.00	0.00	300.00	0.56	0.56	0.03	100.19	98.33	54.07	
400.00	400.00	0.00	0.00	400.00	0.79	0.79	0.03	100.19	97.88	43.51	
500.00	500.00	0.00	0.00	500.00	1.01	1.01	218.85	100.53	97.79	36.69	
600.00	599.93	0.00	0.00	599.93	1.24	1.24	217.67	103.27	100.12	32.79	
700.00	699.68	0.00	0.00	699.68	1.46	1.46	215.50	108.87	105.29	30.39	
800.00	799.13	0.00	0.00	799.13	1.68	1.68	212.63	117.55	113.52	29.17	
900.00	898.15	0.00	0.00	898.15	1.91	1.91	209.44	129.51	125.02	28.84	
1000.00	996.63	0.00	0.00	996.63	2.13	2.13	206.21	144.92	139.96	29.22	
1100.00	1094.44	0.00	0.00	1094.44	2.35	2.35	203.16	163.89	158.46	30.14	
1200.00	1193.44	0.87	115.27	1193.44	2.56	2.56	200.42	186.23	180.32	31.48	
1300.00	1295.35	2.91	115.27	1295.29	2.76	2.75	198.50	210.06	203.67	32.89	
1400.00	1397.97	4.96	115.27	1397.66	2.96	2.95	197.34	234.75	227.87	34.13	
1500.00	1501.30	7.03	115.27	1500.42	3.19	3.14	196.71	260.04	252.65	35.16	
1600.00	1605.90	9.12	115.27	1603.98	3.45	3.35	196.56	283.57	275.64	35.75	
1700.00	1711.79	11.24	115.27	1708.20	3.75	3.56	196.92	304.43	295.91	35.70	
1800.00	1818.70	13.37	115.27	1812.64	4.11	3.78	197.73	322.62	313.42	35.09	
1900.00	1926.33	15.53	115.27	1916.86	4.53	4.01	198.91	338.18	328.24	34.03	
2000.00	2027.00	15.98	115.27	2013.67	4.98	4.25	200.22	352.04	341.31	32.81	
2100.00	2125.74	15.98	115.27	2108.59	5.46	4.49	201.41	366.00	354.46	31.72	
2200.00	2224.48	15.98	115.27	2203.52	5.95	4.74	202.52	380.11	367.74	30.72	
2300.00	2323.22	15.98	115.27	2298.44	6.46	4.99	203.55	394.35	381.09	29.74	
2400.00	2421.96	15.98	115.27	2393.37	6.98	5.25	204.50	408.71	394.51	28.80	
2500.00	2520.70	15.98	115.27	2488.30	7.51	5.51	205.39	423.17	408.02	27.94	
2600.00	2619.44	15.98	115.27	2583.22	8.05	5.77	206.23	437.72	421.61	27.16	
2700.00	2718.19	15.98	115.27	2678.15	8.60	6.04	207.00	452.36	435.27	26.47	
2800.00	2816.93	15.98	115.27	2773.08	9.15	6.31	207.73	467.07	449.00	25.84	
2900.00	2915.67	15.98	115.27	2868.00	9.71	6.58	208.42	481.86	462.79	25.27	
3000.00	3014.41	15.98	115.27	2962.93	10.26	6.86	209.06	496.71	476.61	24.72	
3100.00	3113.15	15.98	115.27	3057.86	10.83	7.13	209.67	511.61	490.48	24.21	
3200.00	3211.89	15.98	115.27	3152.78	11.39	7.41	210.24	526.57	504.40	23.75	
3300.00	3310.63	15.98	115.27	3247.71	11.96	7.69	210.78	541.58	518.35	23.31	
3400.00	3409.37	15.98	115.27	3342.64	12.53	7.97	211.30	556.64	532.33	22.90	
3500.00	3508.11	15.98	115.27	3437.56	13.10	8.25	211.78	571.73	546.35	22.52	
3600.00	3606.86	15.98	115.27	3532.49	13.67	8.53	212.24	586.86	560.40	22.18	
3700.00	3705.60	15.98	115.27	3627.42	14.24	8.81	212.68	602.03	574.49	21.86	
3800.00	3804.34	15.98	115.27	3722.34	14.82	9.09	213.09	617.23	588.60	21.56	
3900.00	3903.08	15.98	115.27	3817.27	15.39	9.38	213.49	632.46	602.74	21.28	
4000.00	4001.82	15.98	115.27	3912.20	15.97	9.66	213.87	647.72	616.91	21.02	
4100.00	4100.56	15.98	115.27	4007.12	16.55	9.94	214.23	663.01	631.10	20.78	

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
4200.00	4199.30	15.98	115.27	4102.05	17.13	10.23	214.57	678.32	645.32	20.56	
4300.00	4298.04	15.98	115.27	4196.97	17.70	10.52	214.90	693.65	659.56	20.35	
4400.00	4396.78	15.98	115.27	4291.90	18.28	10.80	215.21	709.00	673.81	20.15	
4500.00	4495.53	15.98	115.27	4386.83	18.86	11.09	215.51	724.38	688.09	19.96	
4600.00	4594.27	15.98	115.27	4481.75	19.44	11.38	215.80	739.77	702.37	19.78	
4700.00	4693.01	15.98	115.27	4576.68	20.02	11.66	216.08	755.18	716.66	19.61	
4800.00	4791.75	15.98	115.27	4671.61	20.61	11.95	216.34	770.60	730.97	19.44	
4900.00	4890.49	15.98	115.27	4766.53	21.19	12.24	216.60	786.05	745.29	19.28	
5000.00	4989.23	15.98	115.27	4861.46	21.77	12.53	216.84	801.50	759.62	19.14	
5100.00	5087.97	15.98	115.27	4956.39	22.35	12.82	217.08	816.97	773.96	18.99	
5200.00	5186.71	15.98	115.27	5051.31	22.93	13.10	217.31	832.46	788.32	18.86	
5300.00	5285.45	15.98	115.27	5146.24	23.52	13.39	217.53	847.95	802.69	18.73	
5400.00	5384.20	15.98	115.27	5241.17	24.10	13.68	217.74	863.46	817.07	18.61	
5500.00	5482.94	15.98	115.27	5336.09	24.68	13.97	217.94	878.98	831.46	18.50	
5600.00	5581.68	15.98	115.27	5431.02	25.27	14.26	218.14	894.51	845.86	18.39	
5700.00	5680.42	15.98	115.27	5525.95	25.85	14.55	218.33	910.05	860.27	18.28	
5800.00	5779.16	15.98	115.27	5620.87	26.43	14.84	218.51	925.59	874.68	18.18	
5900.00	5877.90	15.98	115.27	5715.80	27.02	15.13	218.69	941.15	889.11	18.08	
6000.00	5976.64	15.98	115.27	5810.73	27.60	15.42	218.86	956.72	903.54	17.99	
6100.00	6075.38	15.98	115.27	5905.65	28.19	15.71	219.03	972.29	917.99	17.90	
6200.00	6174.13	15.98	115.27	6000.58	28.77	16.00	219.19	987.87	932.44	17.82	
6300.00	6272.87	15.98	115.27	6095.50	29.36	16.29	219.34	1003.46	946.89	17.74	
6400.00	6371.61	15.98	115.27	6190.43	29.94	16.59	219.49	1019.06	961.35	17.66	
6500.00	6477.77	10.89	132.11	6293.40	30.34	16.84	212.21	1034.48	975.86	17.65	
6600.00	6586.28	7.87	184.48	6400.62	30.38	16.83	186.63	1049.85	990.88	17.80	
6700.00	6694.19	12.42	228.22	6506.97	30.11	16.52	159.78	1065.14	1006.23	18.08	
6800.00	6801.41	19.82	244.34	6609.95	29.60	15.90	139.60	1080.06	1021.55	18.46	
6900.00	6907.86	27.82	251.64	6707.27	28.94	15.00	126.38	1094.33	1036.48	18.92	
7000.00	7013.45	35.98	255.80	6796.84	28.23	13.87	117.61	1107.67	1050.56	19.39	
7100.00	7118.13	44.17	258.57	6876.88	27.58	12.58	111.48	1119.85	1063.43	19.85	
7200.00	7221.83	52.32	260.61	6945.88	27.09	11.27	107.00	1130.62	1074.78	20.25	
7300.00	7324.50	60.43	262.22	7002.69	26.86	10.13	103.64	1139.79	1084.27	20.53	
7400.00	7426.09	68.46	263.58	7046.48	26.92	9.42	101.10	1147.19	1091.61	20.64	
7500.00	7526.56	76.42	264.78	7076.78	27.29	9.39	99.22	1152.66	1096.52	20.53	
7600.00	7625.90	84.29	265.90	7093.41	27.95	10.09	97.90	1156.13	1098.84	20.18	
7700.00	7724.61	90.00	266.68	7097.00	28.84	11.12	97.11	1157.50	1098.69	19.68	
7800.00	7824.59	90.00	266.68	7097.00	29.90	11.59	97.05	1157.05	1096.28	19.04	
7900.00	7924.59	90.00	266.68	7097.00	31.18	12.09	97.05	1156.44	1093.26	18.30	
8000.00	8024.59	90.00	266.68	7097.00	32.64	12.61	97.06	1155.83	1089.91	17.53	
8100.00	8124.59	90.00	266.68	7097.00	34.28	13.16	97.06	1155.21	1086.22	16.74	
8200.00	8224.58	90.00	266.68	7097.00	36.05	13.72	97.06	1154.60	1082.17	15.94	
8300.00	8324.58	90.00	266.68	7097.00	37.95	14.30	97.07	1153.99	1077.93	15.17	
8400.00	8424.58	90.00	266.68	7097.00	39.95	14.90	97.07	1153.38	1073.32	14.41	
8500.00	8524.58	90.00	266.68	7097.00	42.05	15.51	97.08	1152.77	1068.69	13.71	
8600.00	8624.58	90.00	266.68	7097.00	44.22	16.13	97.08	1152.16	1063.85	13.05	
8700.00	8724.57	90.00	266.68	7097.00	46.46	16.76	97.08	1151.54	1058.74	12.41	
8800.00	8824.57	90.00	266.68	7097.00	48.76	17.39	97.09	1150.93	1053.64	11.83	
8900.00	8924.57	90.00	266.68	7097.00	51.10	18.04	97.09	1150.32	1048.47	11.29	
9000.00	9024.57	90.00	266.68	7097.00	53.50	18.69	97.09	1149.71	1043.19	10.79	
9100.00	9124.57	90.00	266.68	7097.00	55.92	19.34	97.10	1149.10	1037.83	10.33	
9200.00	9224.56	90.00	266.68	7097.00	58.38	20.01	97.10	1148.48	1032.39	9.89	
9300.00	9324.56	90.00	266.68	7097.00	60.88	20.67	97.11	1147.87	1026.87	9.49	
9400.00	9424.56	90.00	266.68	7097.00	63.39	21.34	97.11	1147.26	1021.30	9.11	
9500.00	9524.56	90.00	266.68	7097.00	65.93	22.02	97.11	1146.65	1015.68	8.76	
9600.00	9624.56	90.00	266.68	7097.00	68.49	22.70	97.12	1146.04	1010.02	8.43	
9700.00	9724.56	90.00	266.68	7097.00	71.07	23.38	97.12	1145.43	1004.32	8.12	
9800.00	9824.55	90.00	266.68	7097.00	73.66	24.06	97.13	1144.81	998.58	7.83	
9900.00	9924.55	90.00	266.68	7097.00	76.27	24.75	97.13	1144.20	992.81	7.56	

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
10000.00	10024.55	90.00	266.68	7097.00	78.89	25.44	97.13	1143.59	987.01	7.30	
10100.00	10124.55	90.00	266.68	7097.00	81.52	26.13	97.14	1142.98	981.19	7.06	
10200.00	10224.55	90.00	266.68	7097.00	84.17	26.83	97.14	1142.37	975.35	6.84	
10300.00	10324.54	90.00	266.68	7097.00	86.82	27.52	97.14	1141.76	969.49	6.63	
10400.00	10424.54	90.00	266.68	7097.00	89.48	28.22	97.15	1141.14	963.61	6.43	
10500.00	10524.54	90.00	266.68	7097.00	92.15	28.92	97.15	1140.53	957.71	6.24	
10600.00	10624.54	90.00	266.68	7097.00	94.83	29.62	97.16	1139.92	951.79	6.06	
10700.00	10724.54	90.00	266.68	7097.00	97.51	30.33	97.16	1139.31	945.87	5.89	
10800.00	10824.53	90.00	266.68	7097.00	100.20	31.03	97.16	1138.70	939.93	5.73	
10900.00	10924.53	90.00	266.68	7097.00	102.90	31.74	97.17	1138.09	933.98	5.58	
11000.00	11024.53	90.00	266.68	7097.00	105.60	32.44	97.17	1137.47	928.01	5.43	
11100.00	11124.53	90.00	266.68	7097.00	108.30	33.15	97.18	1136.86	922.04	5.29	
11200.00	11224.53	90.00	266.68	7097.00	111.02	33.86	97.18	1136.25	916.06	5.16	
11300.00	11324.52	90.00	266.68	7097.00	113.73	34.57	97.18	1135.64	910.07	5.03	
11400.00	11424.52	90.00	266.68	7097.00	116.45	35.28	97.19	1135.03	904.07	4.91	
11500.00	11524.52	90.00	266.68	7097.00	119.17	35.99	97.19	1134.42	898.07	4.80	
11600.00	11624.52	90.00	266.68	7097.00	121.90	36.71	97.19	1133.80	892.06	4.69	
11700.00	11724.52	90.00	266.68	7097.00	124.63	37.42	97.20	1133.19	886.04	4.58	
11800.00	11824.52	90.00	266.68	7097.00	127.36	38.14	97.20	1132.58	880.01	4.48	
11900.00	11924.51	90.00	266.68	7097.00	130.09	38.85	97.21	1131.97	873.98	4.39	
12000.00	12024.51	90.00	266.68	7097.00	132.83	39.57	97.21	1131.36	867.95	4.30	
12100.00	12124.51	90.00	266.68	7097.00	135.57	40.28	97.21	1130.75	861.91	4.21	
12200.00	12224.51	90.00	266.68	7097.00	138.31	41.00	97.22	1130.13	855.86	4.12	
12300.00	12324.51	90.00	266.68	7097.00	141.06	41.72	97.22	1129.52	849.81	4.04	
12400.00	12424.50	90.00	266.68	7097.00	143.81	42.43	97.23	1128.91	843.76	3.96	
12500.00	12524.50	90.00	266.68	7097.00	146.55	43.15	97.23	1128.30	837.70	3.88	
12600.00	12624.50	90.00	266.68	7097.00	149.30	43.87	97.23	1127.69	831.64	3.81	
12700.00	12724.50	90.00	266.68	7097.00	152.06	44.59	97.24	1127.08	825.57	3.74	
12800.00	12824.50	90.00	266.68	7097.00	154.81	45.31	97.24	1126.46	819.50	3.67	
12900.00	12924.49	90.00	266.68	7097.00	157.57	46.03	97.25	1125.85	813.43	3.60	
13000.00	13024.49	90.00	266.68	7097.00	160.32	46.75	97.25	1125.24	807.36	3.54	
13100.00	13124.49	90.00	266.68	7097.00	163.08	47.47	97.25	1124.63	801.28	3.48	
13200.00	13224.49	90.00	266.68	7097.00	165.84	48.20	97.26	1124.02	795.20	3.42	
13300.00	13324.49	90.00	266.68	7097.00	168.60	48.92	97.26	1123.41	789.12	3.36	
13400.00	13424.49	90.00	266.68	7097.00	171.36	49.64	97.27	1122.79	783.03	3.30	
13500.00	13524.48	90.00	266.68	7097.00	174.13	50.36	97.27	1122.18	776.95	3.25	
13600.00	13624.48	90.00	266.68	7097.00	176.89	51.08	97.27	1121.57	770.86	3.20	
13700.00	13724.48	90.00	266.68	7097.00	179.65	51.81	97.28	1120.96	764.77	3.15	
13800.00	13824.48	90.00	266.68	7097.00	182.42	52.53	97.28	1120.35	758.67	3.10	
13900.00	13924.48	90.00	266.68	7097.00	185.19	53.26	97.29	1119.74	752.58	3.05	
14000.00	14024.47	90.00	266.68	7097.00	187.96	53.98	97.29	1119.13	746.48	3.00	
14100.00	14124.47	90.00	266.68	7097.00	190.73	54.70	97.29	1118.51	740.38	2.96	
14200.00	14224.47	90.00	266.68	7097.00	193.49	55.43	97.30	1117.90	734.28	2.91	
14300.00	14324.47	90.00	266.68	7097.00	196.27	56.15	97.30	1117.29	728.18	2.87	
14400.00	14424.47	90.00	266.68	7097.00	199.04	56.88	97.31	1116.68	722.08	2.83	
14500.00	14524.46	90.00	266.68	7097.00	201.81	57.60	97.31	1116.07	715.97	2.79	
14600.00	14624.46	90.00	266.68	7097.00	204.58	58.33	97.31	1115.46	709.87	2.75	
14700.00	14724.46	90.00	266.68	7097.00	207.36	59.05	97.32	1114.84	703.76	2.71	
14800.00	14824.46	90.00	266.68	7097.00	210.13	59.78	97.32	1114.23	697.65	2.67	
14900.00	14924.46	90.00	266.68	7097.00	212.90	60.50	97.33	1113.62	691.54	2.64	
15000.00	15024.45	90.00	266.68	7097.00	215.68	61.23	97.33	1113.01	685.43	2.60	
15100.00	15124.45	90.00	266.68	7097.00	218.46	61.96	97.33	1112.40	679.32	2.57	
15200.00	15224.45	90.00	266.68	7097.00	221.23	62.68	97.34	1111.79	673.21	2.53	
15300.00	15324.45	90.00	266.68	7097.00	224.01	63.41	97.34	1111.18	667.09	2.50	
15400.00	15424.45	90.00	266.68	7097.00	226.79	64.14	97.35	1110.56	660.98	2.47	SF(Lo)
15500.00	15524.45	90.00	266.68	7097.00	229.56	64.86	97.35	1109.95	654.86	2.44	SF(Lo)
15600.00	15600.60	90.00	266.68	7097.00	231.68	65.42	97.35	1109.60	650.13	2.41	SF(Lo)
15628.56	15600.60	90.00	266.68	7097.00	231.68	65.42	97.35	1110.40	650.99	2.42	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	359.95	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	218.74	80.49	77.75	29.38	
600.00	599.93	0.00	0.00	599.93	1.24	1.24	217.27	83.24	80.09	26.44	
700.00	699.68	0.00	0.00	699.68	1.46	1.46	214.61	88.89	85.31	24.82	
800.00	799.13	0.00	0.00	799.13	1.68	1.68	211.22	97.69	93.66	24.25	
900.00	898.15	0.00	0.00	898.15	1.91	1.91	207.58	109.85	105.35	24.46	
1000.00	996.63	0.00	0.00	996.63	2.13	2.13	204.04	125.53	120.58	25.33	
1100.00	1098.34	1.97	123.78	1098.32	2.34	2.33	201.13	143.53	138.12	26.51	
1200.00	1200.81	4.02	123.78	1200.65	2.53	2.52	199.22	162.23	156.37	27.65	
1300.00	1303.92	6.08	123.78	1303.35	2.75	2.72	198.04	181.45	175.12	28.67	
1400.00	1407.66	8.15	123.78	1406.29	2.99	2.92	197.40	201.06	194.20	29.32	
1500.00	1512.05	10.24	123.78	1509.32	3.27	3.13	197.14	220.89	213.49	29.85	
1600.00	1617.49	12.35	123.78	1612.72	3.60	3.35	197.30	238.58	230.59	29.86	
1700.00	1723.93	14.48	123.78	1716.25	4.00	3.57	197.94	253.27	244.65	29.39	
1800.00	1831.09	16.62	123.78	1819.48	4.48	3.81	199.01	264.96	255.62	28.39	
1900.00	1933.99	17.55	123.78	1917.70	5.00	4.06	200.34	274.21	264.09	27.08	
2000.00	2033.39	17.55	123.78	2012.47	5.54	4.31	201.59	283.33	272.37	25.86	
2100.00	2132.79	17.55	123.78	2107.25	6.10	4.57	202.76	292.56	280.74	24.75	
2200.00	2232.19	17.55	123.78	2202.02	6.67	4.84	203.86	301.91	289.18	23.70	
2300.00	2331.59	17.55	123.78	2296.79	7.26	5.11	204.89	311.37	297.70	22.77	
2400.00	2430.99	17.55	123.78	2391.56	7.85	5.39	205.86	320.92	306.29	21.93	
2500.00	2530.39	17.55	123.78	2486.33	8.45	5.67	206.78	330.56	314.94	21.17	
2600.00	2629.79	17.55	123.78	2581.10	9.06	5.95	207.64	340.27	323.66	20.48	
2700.00	2729.19	17.55	123.78	2675.88	9.68	6.24	208.46	350.06	332.41	19.84	
2800.00	2828.58	17.55	123.78	2770.65	10.29	6.52	209.23	359.91	341.20	19.24	
2900.00	2927.98	17.55	123.78	2865.42	10.91	6.81	209.96	369.83	350.03	18.68	
3000.00	3027.38	17.55	123.78	2960.19	11.54	7.10	210.65	379.80	358.92	18.19	
3100.00	3126.78	17.55	123.78	3054.96	12.16	7.39	211.31	389.82	367.84	17.74	
3200.00	3226.18	17.55	123.78	3149.73	12.79	7.69	211.93	399.90	376.81	17.32	
3300.00	3325.58	17.55	123.78	3244.51	13.42	7.98	212.52	410.01	385.82	16.95	
3400.00	3424.98	17.55	123.78	3339.28	14.05	8.28	213.09	420.17	394.86	16.60	
3500.00	3524.38	17.55	123.78	3434.05	14.68	8.57	213.62	430.37	403.94	16.29	
3600.00	3623.78	17.55	123.78	3528.82	15.31	8.87	214.14	440.60	413.05	15.99	
3700.00	3723.18	17.55	123.78	3623.59	15.95	9.17	214.63	450.87	422.19	15.72	
3800.00	3822.58	17.55	123.78	3718.36	16.58	9.47	215.09	461.16	431.36	15.47	
3900.00	3921.98	17.55	123.78	3813.13	17.22	9.77	215.54	471.49	440.53	15.23	
4000.00	4021.38	17.55	123.78	3907.91	17.85	10.07	215.97	481.84	449.73	15.00	
4100.00	4120.78	17.55	123.78	4002.68	18.49	10.37	216.38	492.22	458.93	14.78	
4200.00	4220.18	17.55	123.78	4097.45	19.13	10.67	216.77	502.62	468.14	14.58	
4300.00	4319.58	17.55	123.78	4192.22	19.76	10.97	217.15	513.05	477.38	14.38	
4400.00	4418.98	17.55	123.78	4286.99	20.40	11.27	217.51	523.50	486.63	14.20	
4500.00	4518.38	17.55	123.78	4381.76	21.04	11.57	217.86	533.96	495.91	14.03	
4600.00	4617.77	17.55	123.78	4476.54	21.68	11.88	218.19	544.45	505.20	13.87	
4700.00	4717.17	17.55	123.78	4571.31	22.32	12.18	218.52	554.95	514.50	13.72	
4800.00	4816.57	17.55	123.78	4666.08	22.96	12.48	218.83	565.47	523.82	13.58	
4900.00	4915.97	17.55	123.78	4760.85	23.60	12.79	219.12	576.00	533.16	13.44	
5000.00	5015.37	17.55	123.78	4855.62	24.24	13.09	219.41	586.55	542.51	13.32	
5100.00	5114.77	17.55	123.78	4950.39	24.88	13.39	219.69	597.12	551.87	13.20	
5200.00	5214.17	17.55	123.78	5045.17	25.52	13.70	219.96	607.70	561.24	13.08	
5300.00	5313.57	17.55	123.78	5139.94	26.16	14.00	220.22	618.29	570.63	12.97	
5400.00	5412.97	17.55	123.78	5234.71	26.80	14.31	220.47	628.89	580.03	12.87	
5500.00	5512.37	17.55	123.78	5329.48	27.44	14.61	220.71	639.50	589.43	12.77	
5600.00	5611.77	17.55	123.78	5424.25	28.08	14.91	220.94	650.13	598.85	12.68	
5700.00	5711.17	17.55	123.78	5519.02	28.72	15.22	221.17	660.76	608.28	12.59	

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	5810.57	17.55	123.78	5613.80	29.37	15.52	221.39	671.41	617.71	12.50	
5900.00	5909.97	17.55	123.78	5708.57	30.01	15.83	221.60	682.06	627.16	12.42	
6000.00	6009.37	17.55	123.78	5803.34	30.65	16.13	221.81	692.73	636.61	12.34	
6100.00	6108.77	17.55	123.78	5898.11	31.29	16.44	222.01	703.40	646.07	12.27	
6200.00	6208.17	17.55	123.78	5992.88	31.93	16.75	222.20	714.08	655.54	12.20	
6300.00	6313.05	14.43	134.01	6093.30	32.50	17.06	222.25	724.59	664.95	12.15	
6400.00	6422.42	10.58	171.36	6200.22	32.57	17.16	221.18	733.86	673.97	12.25	
6500.00	6526.02	12.67	212.16	6301.86	32.25	17.00	212.03	742.54	683.30	12.54	
6600.00	6624.71	18.24	233.58	6397.01	31.65	16.60	184.98	752.37	694.30	12.96	
6700.00	6719.71	24.80	244.17	6485.37	30.87	15.99	156.76	763.47	706.69	13.45	
6800.00	6811.53	31.57	250.26	6566.28	30.01	15.17	135.35	775.49	719.77	13.92	
6900.00	6900.64	38.32	254.27	6639.29	29.16	14.19	121.02	788.05	733.33	14.40	
7000.00	6987.46	45.00	257.15	6704.11	28.40	13.09	111.27	800.73	746.87	14.86	
7100.00	7072.34	51.58	259.38	6760.56	27.81	11.94	104.31	813.14	759.87	15.26	
7200.00	7155.61	58.08	261.21	6808.50	27.42	10.85	99.14	824.89	771.88	15.56	
7300.00	7237.56	64.49	262.77	6847.85	27.27	9.95	95.23	835.61	782.43	15.71	
7400.00	7318.44	70.83	264.15	6878.58	27.36	9.42	92.27	845.00	791.20	15.71	
7500.00	7398.47	77.12	265.41	6900.66	27.67	9.42	90.10	852.79	797.91	15.54	
7600.00	7477.87	83.36	266.61	6914.11	28.23	9.99	88.61	858.77	802.39	15.23	
7700.00	7556.81	89.57	267.77	6918.98	28.93	11.05	87.75	862.76	804.49	14.81	
7800.00	7655.31	90.00	267.85	6919.00	29.95	11.59	87.61	864.50	804.27	14.35	
7900.00	7755.30	90.00	267.85	6919.00	31.15	12.10	87.62	865.92	803.44	13.86	
8000.00	7855.29	90.00	267.85	6919.00	32.56	12.64	87.62	867.34	802.24	13.32	
8100.00	7955.28	90.00	267.85	6919.00	34.13	13.20	87.62	868.75	800.56	12.74	
8200.00	8055.27	90.00	267.85	6919.00	35.85	13.78	87.63	870.17	798.69	12.17	
8300.00	8155.26	90.00	267.85	6919.00	37.71	14.37	87.63	871.59	796.62	11.63	
8400.00	8255.25	90.00	267.85	6919.00	39.67	14.98	87.64	873.01	794.04	11.05	
8500.00	8355.24	90.00	267.85	6919.00	41.73	15.61	87.64	874.43	791.45	10.54	
8600.00	8455.23	90.00	267.85	6919.00	43.87	16.24	87.64	875.85	788.61	10.04	
8700.00	8555.22	90.00	267.85	6919.00	46.08	16.88	87.65	877.26	785.57	9.57	
8800.00	8655.21	90.00	267.85	6919.00	48.36	17.53	87.65	878.68	782.55	9.14	
8900.00	8755.20	90.00	267.85	6919.00	50.68	18.18	87.66	880.10	779.43	8.74	
9000.00	8855.19	90.00	267.85	6919.00	53.06	18.84	87.66	881.52	776.16	8.37	
9100.00	8955.18	90.00	267.85	6919.00	55.47	19.51	87.66	882.94	772.77	8.01	
9200.00	9055.17	90.00	267.85	6919.00	57.92	20.18	87.67	884.36	769.33	7.69	
9300.00	9155.16	90.00	267.85	6919.00	60.40	20.85	87.67	885.77	765.82	7.38	
9400.00	9255.15	90.00	267.85	6919.00	62.91	21.53	87.67	887.19	762.27	7.10	
9500.00	9355.14	90.00	267.85	6919.00	65.44	22.21	87.68	888.61	758.67	6.84	
9600.00	9455.13	90.00	267.85	6919.00	67.99	22.90	87.68	890.03	755.01	6.59	
9700.00	9555.12	90.00	267.85	6919.00	70.56	23.59	87.69	891.45	751.29	6.36	
9800.00	9655.11	90.00	267.85	6919.00	73.15	24.28	87.69	892.87	747.54	6.14	
9900.00	9755.10	90.00	267.85	6919.00	75.75	24.97	87.69	894.29	743.76	5.94	
10000.00	9855.09	90.00	267.85	6919.00	78.37	25.66	87.70	895.70	739.95	5.75	
10100.00	9955.08	90.00	267.85	6919.00	81.00	26.36	87.70	897.12	736.11	5.57	
10200.00	10055.07	90.00	267.85	6919.00	83.64	27.06	87.70	898.54	732.25	5.40	
10300.00	10155.06	90.00	267.85	6919.00	86.29	27.76	87.71	899.96	728.37	5.24	
10400.00	10255.05	90.00	267.85	6919.00	88.95	28.46	87.71	901.38	724.47	5.10	
10500.00	10355.04	90.00	267.85	6919.00	91.62	29.16	87.71	902.80	720.56	4.95	
10600.00	10455.03	90.00	267.85	6919.00	94.30	29.87	87.72	904.21	716.63	4.82	
10700.00	10555.02	90.00	267.85	6919.00	96.98	30.57	87.72	905.63	712.68	4.69	
10800.00	10655.01	90.00	267.85	6919.00	99.68	31.28	87.73	907.05	708.72	4.57	
10900.00	10755.00	90.00	267.85	6919.00	102.37	31.99	87.73	908.47	704.75	4.46	
11000.00	10854.99	90.00	267.85	6919.00	105.07	32.70	87.73	909.89	700.77	4.35	
11100.00	10954.98	90.00	267.85	6919.00	107.78	33.41	87.74	911.31	696.78	4.25	
11200.00	11054.97	90.00	267.85	6919.00	110.49	34.12	87.74	912.72	692.78	4.15	
11300.00	11154.96	90.00	267.85	6919.00	113.21	34.83	87.74	914.14	688.77	4.06	
11400.00	11254.95	90.00	267.85	6919.00	115.93	35.55	87.75	915.56	684.75	3.97	
11500.00	11354.94	90.00	267.85	6919.00	118.66	36.26	87.75	916.98	680.73	3.88	

5D Anti-Collision Report

Secondary Well: Goetzel 33N-30B-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
11600.00	11454.93	90.00	267.85	6919.00	121.39	36.97	87.75	918.40	676.69	3.80	
11700.00	11554.92	90.00	267.85	6919.00	124.12	37.69	87.76	919.82	672.66	3.72	
11800.00	11654.91	90.00	267.85	6919.00	126.85	38.40	87.76	921.23	668.61	3.65	
11900.00	11754.90	90.00	267.85	6919.00	129.59	39.12	87.76	922.65	664.56	3.57	
12000.00	11854.89	90.00	267.85	6919.00	132.33	39.84	87.77	924.07	660.50	3.51	
12100.00	11954.88	90.00	267.85	6919.00	135.07	40.56	87.77	925.49	656.44	3.44	
12200.00	12054.87	90.00	267.85	6919.00	137.82	41.27	87.77	926.91	652.38	3.38	
12300.00	12154.86	90.00	267.85	6919.00	140.57	41.99	87.78	928.33	648.30	3.32	
12400.00	12254.85	90.00	267.85	6919.00	143.32	42.71	87.78	929.75	644.23	3.26	
12500.00	12354.84	90.00	267.85	6919.00	146.07	43.43	87.78	931.16	640.15	3.20	
12600.00	12454.83	90.00	267.85	6919.00	148.82	44.15	87.79	932.58	636.07	3.15	
12700.00	12554.82	90.00	267.85	6919.00	151.58	44.87	87.79	934.00	631.98	3.09	
12800.00	12654.81	90.00	267.85	6919.00	154.34	45.59	87.79	935.42	627.89	3.04	
12900.00	12754.80	90.00	267.85	6919.00	157.09	46.32	87.80	936.84	623.80	2.99	
13000.00	12854.79	90.00	267.85	6919.00	159.86	47.04	87.80	938.26	619.70	2.95	
13100.00	12954.78	90.00	267.85	6919.00	162.62	47.76	87.80	939.67	615.60	2.90	
13200.00	13054.77	90.00	267.85	6919.00	165.38	48.48	87.81	941.09	611.50	2.86	
13300.00	13154.76	90.00	267.85	6919.00	168.15	49.20	87.81	942.51	607.40	2.81	
13400.00	13254.75	90.00	267.85	6919.00	170.91	49.93	87.81	943.93	603.29	2.77	
13500.00	13354.74	90.00	267.85	6919.00	173.68	50.65	87.82	945.35	599.18	2.73	
13600.00	13454.73	90.00	267.85	6919.00	176.45	51.37	87.82	946.77	595.07	2.69	
13700.00	13554.72	90.00	267.85	6919.00	179.22	52.10	87.82	948.19	590.95	2.65	
13800.00	13654.71	90.00	267.85	6919.00	181.99	52.82	87.83	949.60	586.84	2.62	
13900.00	13754.69	90.00	267.85	6919.00	184.76	53.55	87.83	951.02	582.72	2.58	
14000.00	13854.68	90.00	267.85	6919.00	187.53	54.27	87.83	952.44	578.60	2.55	
14100.00	13954.67	90.00	267.85	6919.00	190.30	55.00	87.84	953.86	574.48	2.51	
14200.00	14054.66	90.00	267.85	6919.00	193.08	55.72	87.84	955.28	570.36	2.48	SF(Lo)
14300.00	14154.65	90.00	267.85	6919.00	195.85	56.45	87.84	956.70	566.23	2.45	SF(Lo)
14400.00	14254.64	90.00	267.85	6919.00	198.63	57.17	87.85	958.12	562.11	2.42	SF(Lo)
14500.00	14354.63	90.00	267.85	6919.00	201.40	57.90	87.85	959.53	557.98	2.39	SF(Lo)
14600.00	14454.62	90.00	267.85	6919.00	204.18	58.62	87.85	960.95	553.85	2.36	SF(Lo)
14700.00	14554.61	90.00	267.85	6919.00	206.96	59.35	87.86	962.37	549.72	2.33	SF(Lo)
14800.00	14654.60	90.00	267.85	6919.00	209.74	60.08	87.86	963.79	545.58	2.30	SF(Lo)
14900.00	14754.59	90.00	267.85	6919.00	212.52	60.80	87.86	965.21	541.45	2.28	SF(Lo)
15000.00	14854.58	90.00	267.85	6919.00	215.30	61.53	87.87	966.63	537.32	2.25	SF(Lo)
15100.00	14954.57	90.00	267.85	6919.00	218.08	62.25	87.87	968.05	533.18	2.23	SF(Lo)
15200.00	15054.56	90.00	267.85	6919.00	220.86	62.98	87.87	969.46	529.04	2.20	SF(Lo)
15300.00	15154.55	90.00	267.85	6919.00	223.64	63.71	87.87	970.88	524.90	2.18	SF(Lo)
15400.00	15254.54	90.00	267.85	6919.00	226.42	64.44	87.88	972.30	520.77	2.15	SF(Lo)
15500.00	15354.53	90.00	267.85	6919.00	229.21	65.16	87.88	973.72	516.62	2.13	SF(Lo)
15600.00	15454.52	90.00	267.85	6919.00	231.99	65.89	87.88	975.14	512.48	2.11	SF(Lo)
15628.56	15456.59	90.00	267.85	6919.00	232.05	65.91	87.88	975.90	513.20	2.11	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	0.08	60.11	59.38	81.97	CC (Lo)
100.00	100.00	0.00	0.00	100.00	0.11	0.11	0.08	60.11	59.16	63.01	CC (Lo)
200.00	200.00	0.00	0.00	200.00	0.34	0.34	0.08	60.11	58.71	42.83	CC (Lo)
300.00	300.00	0.00	0.00	300.00	0.56	0.56	0.08	60.11	58.26	32.44	CC (Lo)
400.00	400.00	0.00	0.00	400.00	0.79	0.79	0.08	60.11	57.81	26.11	CC (Lo)
500.00	500.00	0.00	0.00	500.00	1.01	1.01	218.80	60.45	57.71	22.07	CC (Lo)
600.00	599.93	0.00	0.00	599.93	1.24	1.24	216.85	63.21	60.06	20.08	CC (Lo)
700.00	699.68	0.00	0.00	699.68	1.46	1.46	213.44	68.92	65.34	19.24	
800.00	799.13	0.00	0.00	799.13	1.68	1.68	209.29	77.86	73.83	19.32	
900.00	899.36	0.99	127.01	899.36	1.90	1.90	205.20	89.96	85.48	20.09	
1000.00	1001.09	3.02	127.01	1001.02	2.09	2.08	202.34	103.14	98.24	21.04	
1100.00	1103.29	5.07	127.01	1102.96	2.29	2.28	200.53	116.85	111.50	21.83	

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
1200.00	1205.96	7.12	127.01	1205.04	2.53	2.48	199.48	130.95	125.12	22.46	
1300.00	1309.08	9.18	127.01	1307.12	2.79	2.69	198.98	145.36	139.03	22.95	
1400.00	1412.65	11.25	127.01	1409.04	3.10	2.90	198.88	160.04	153.17	23.27	
1500.00	1516.68	13.33	127.01	1510.68	3.48	3.13	199.08	174.84	167.37	23.40	
1600.00	1621.43	15.43	127.01	1612.14	3.92	3.36	199.73	187.46	179.31	22.99	
1700.00	1726.35	17.39	127.01	1712.75	4.43	3.61	200.91	197.08	188.21	22.21	
1800.00	1825.90	17.39	127.01	1807.75	4.96	3.86	202.18	205.49	195.83	21.28	
1900.00	1925.45	17.39	127.01	1902.75	5.52	4.13	203.35	213.98	203.50	20.41	
2000.00	2024.99	17.39	127.01	1997.75	6.09	4.40	204.43	222.56	211.18	19.56	
2100.00	2124.54	17.39	127.01	2092.75	6.68	4.67	205.43	231.22	218.92	18.81	
2200.00	2224.09	17.39	127.01	2187.75	7.27	4.95	206.35	239.93	226.71	18.15	
2300.00	2323.63	17.39	127.01	2282.75	7.88	5.23	207.22	248.71	234.53	17.54	
2400.00	2423.18	17.39	127.01	2377.75	8.48	5.52	208.02	257.53	242.39	17.00	
2500.00	2522.73	17.39	127.01	2472.75	9.09	5.80	208.77	266.41	250.29	16.52	
2600.00	2622.28	17.39	127.01	2567.75	9.71	6.09	209.47	275.33	258.19	16.07	
2700.00	2721.82	17.39	127.01	2662.74	10.33	6.38	210.13	284.28	266.10	15.64	
2800.00	2821.37	17.39	127.01	2757.74	10.95	6.67	210.75	293.27	274.04	15.25	
2900.00	2920.92	17.39	127.01	2852.74	11.57	6.97	211.33	302.29	282.00	14.90	
3000.00	3020.46	17.39	127.01	2947.74	12.20	7.26	211.88	311.34	289.98	14.58	
3100.00	3120.01	17.39	127.01	3042.74	12.82	7.56	212.39	320.42	297.99	14.28	
3200.00	3219.56	17.39	127.01	3137.74	13.45	7.85	212.88	329.52	306.01	14.02	
3300.00	3319.10	17.39	127.01	3232.74	14.08	8.15	213.34	338.65	314.06	13.77	
3400.00	3418.65	17.39	127.01	3327.74	14.71	8.45	213.78	347.79	322.12	13.55	
3500.00	3518.20	17.39	127.01	3422.74	15.34	8.75	214.19	356.95	330.19	13.34	
3600.00	3617.74	17.39	127.01	3517.74	15.97	9.05	214.59	366.14	338.28	13.15	
3700.00	3717.29	17.39	127.01	3612.74	16.60	9.35	214.96	375.33	346.39	12.97	
3800.00	3816.84	17.39	127.01	3707.74	17.23	9.65	215.32	384.55	354.51	12.80	
3900.00	3916.38	17.39	127.01	3802.74	17.86	9.95	215.66	393.77	362.63	12.65	
4000.00	4015.93	17.39	127.01	3897.73	18.50	10.25	215.98	403.01	370.78	12.50	
4100.00	4115.48	17.39	127.01	3992.73	19.13	10.55	216.29	412.27	378.91	12.36	
4200.00	4215.02	17.39	127.01	4087.73	19.76	10.85	216.59	421.53	387.05	12.23	
4300.00	4314.57	17.39	127.01	4182.73	20.40	11.16	216.87	430.81	395.20	12.10	
4400.00	4414.12	17.39	127.01	4277.73	21.03	11.46	217.14	440.09	403.35	11.98	
4500.00	4513.66	17.39	127.01	4372.73	21.67	11.76	217.40	449.38	411.50	11.86	
4600.00	4613.21	17.39	127.01	4467.73	22.30	12.07	217.65	458.69	419.66	11.75	
4700.00	4712.76	17.39	127.01	4562.73	22.94	12.37	217.89	468.00	427.83	11.65	
4800.00	4812.30	17.39	127.01	4657.73	23.57	12.67	218.12	477.32	436.00	11.55	
4900.00	4911.85	17.39	127.01	4752.73	24.21	12.98	218.35	486.64	444.17	11.46	
5000.00	5011.40	17.39	127.01	4847.73	24.84	13.28	218.56	495.98	452.36	11.37	
5100.00	5110.95	17.39	127.01	4942.73	25.48	13.58	218.77	505.32	460.55	11.29	
5200.00	5210.49	17.39	127.01	5037.73	26.12	13.89	218.96	514.66	468.74	11.21	
5300.00	5310.04	17.39	127.01	5132.72	26.75	14.19	219.15	524.02	476.94	11.13	
5400.00	5409.59	17.39	127.01	5227.72	27.39	14.50	219.34	533.37	485.15	11.06	
5500.00	5509.13	17.39	127.01	5322.72	28.03	14.80	219.52	542.74	493.36	10.99	
5600.00	5608.68	17.39	127.01	5417.72	28.66	15.11	219.69	552.10	501.57	10.93	
5700.00	5708.23	17.39	127.01	5512.72	29.30	15.41	219.85	561.48	509.79	10.86	
5800.00	5807.77	17.39	127.01	5607.72	29.94	15.72	220.02	570.85	518.01	10.80	
5900.00	5907.32	17.39	127.01	5702.72	30.57	16.02	220.17	580.24	526.23	10.74	
6000.00	6006.87	17.39	127.01	5797.72	31.21	16.33	220.32	589.62	534.46	10.69	
6100.00	6106.41	17.39	127.01	5892.72	31.85	16.63	220.47	599.01	542.69	10.64	
6200.00	6205.96	17.39	127.01	5987.72	32.48	16.94	220.61	608.40	550.93	10.59	
6300.00	6305.51	17.39	127.01	6082.72	33.12	17.24	220.75	617.80	559.17	10.54	
6400.00	6411.88	13.55	144.20	6184.95	33.60	17.53	220.54	626.83	567.30	10.53	
6500.00	6519.09	11.63	183.38	6289.77	33.52	17.60	212.02	634.67	575.36	10.70	
6600.00	6623.02	15.06	216.91	6391.02	33.01	17.42	185.53	642.68	584.25	11.00	
6700.00	6724.18	21.14	234.40	6487.20	32.17	17.01	157.86	651.06	593.68	11.35	
6800.00	6822.79	28.03	243.72	6576.85	31.13	16.37	136.94	659.62	603.25	11.70	
6900.00	6919.06	35.14	249.41	6658.82	30.01	15.49	123.06	668.18	612.85	12.08	

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
7000.00	7013.24	42.28	253.30	6732.28	28.94	14.40	113.73	676.50	622.12	12.44	
7100.00	7105.56	49.37	256.19	6796.58	28.03	13.15	107.12	684.34	630.72	12.76	
7200.00	7196.24	56.39	258.48	6851.28	27.38	11.84	102.26	691.49	638.31	13.00	
7300.00	7285.51	63.34	260.40	6896.07	27.05	10.64	98.60	697.74	644.53	13.11	
7400.00	7373.56	70.21	262.07	6930.78	27.05	9.80	95.85	702.88	649.12	13.07	
7500.00	7460.59	77.02	263.59	6955.31	27.36	9.57	93.82	706.75	651.94	12.89	
7600.00	7546.77	83.77	265.01	6969.68	27.94	10.10	92.43	709.23	652.89	12.59	
7700.00	7633.33	90.00	266.28	6974.00	28.72	11.24	91.61	710.21	652.00	12.20	
7800.00	7733.30	90.00	266.28	6974.00	29.76	11.72	91.54	709.16	649.03	11.79	
7900.00	7833.30	90.00	266.28	6974.00	31.00	12.24	91.54	707.85	645.49	11.35	
8000.00	7933.29	90.00	266.28	6974.00	32.42	12.78	91.54	706.54	641.33	10.83	
8100.00	8033.28	90.00	266.28	6974.00	34.02	13.35	91.54	705.24	636.99	10.33	
8200.00	8133.27	90.00	266.28	6974.00	35.76	13.94	91.55	703.93	632.08	9.80	
8300.00	8233.26	90.00	266.28	6974.00	37.63	14.54	91.55	702.62	627.27	9.33	
8400.00	8333.25	90.00	266.28	6974.00	39.60	15.16	91.55	701.31	621.95	8.84	
8500.00	8433.24	90.00	266.28	6974.00	41.67	15.78	91.56	700.00	616.56	8.39	
8600.00	8533.24	90.00	266.28	6974.00	43.83	16.42	91.56	698.69	610.98	7.97	
8700.00	8633.23	90.00	266.28	6974.00	46.04	17.07	91.56	697.38	605.12	7.56	
8800.00	8733.22	90.00	266.28	6974.00	48.32	17.72	91.56	696.07	599.30	7.19	
8900.00	8833.21	90.00	266.28	6974.00	50.66	18.38	91.57	694.76	593.40	6.85	
9000.00	8933.20	90.00	266.28	6974.00	53.03	19.04	91.57	693.46	587.40	6.54	
9100.00	9033.19	90.00	266.28	6974.00	55.45	19.71	91.57	692.15	581.30	6.24	
9200.00	9133.18	90.00	266.28	6974.00	57.90	20.38	91.58	690.84	575.12	5.97	
9300.00	9233.18	90.00	266.28	6974.00	60.38	21.06	91.58	689.53	568.87	5.71	
9400.00	9333.17	90.00	266.28	6974.00	62.88	21.74	91.58	688.22	562.56	5.48	
9500.00	9433.16	90.00	266.28	6974.00	65.41	22.43	91.59	686.91	556.20	5.26	
9600.00	9533.15	90.00	266.28	6974.00	67.96	23.11	91.59	685.60	549.80	5.05	
9700.00	9633.14	90.00	266.28	6974.00	70.53	23.80	91.59	684.29	543.35	4.86	
9800.00	9733.13	90.00	266.28	6974.00	73.12	24.49	91.59	682.99	536.87	4.67	
9900.00	9833.12	90.00	266.28	6974.00	75.72	25.19	91.60	681.68	530.36	4.51	
10000.00	9933.12	90.00	266.28	6974.00	78.33	25.88	91.60	680.37	523.82	4.35	
10100.00	10033.11	90.00	266.28	6974.00	80.96	26.58	91.60	679.06	517.26	4.20	
10200.00	10133.10	90.00	266.28	6974.00	83.60	27.28	91.61	677.75	510.68	4.06	
10300.00	10233.09	90.00	266.28	6974.00	86.25	27.98	91.61	676.44	504.07	3.92	
10400.00	10333.08	90.00	266.28	6974.00	88.90	28.68	91.61	675.13	497.45	3.80	
10500.00	10433.07	90.00	266.28	6974.00	91.57	29.39	91.62	673.82	490.81	3.68	
10600.00	10533.06	90.00	266.28	6974.00	94.24	30.09	91.62	672.51	484.15	3.57	
10700.00	10633.06	90.00	266.28	6974.00	96.92	30.80	91.62	671.21	477.48	3.46	
10800.00	10733.05	90.00	266.28	6974.00	99.61	31.51	91.63	669.90	470.80	3.36	
10900.00	10833.04	90.00	266.28	6974.00	102.30	32.22	91.63	668.59	464.11	3.27	
11000.00	10933.03	90.00	266.28	6974.00	105.00	32.93	91.63	667.28	457.41	3.18	
11100.00	11033.02	90.00	266.28	6974.00	107.70	33.64	91.63	665.97	450.69	3.09	
11200.00	11133.01	90.00	266.28	6974.00	110.41	34.35	91.64	664.66	443.97	3.01	
11300.00	11233.00	90.00	266.28	6974.00	113.12	35.06	91.64	663.35	437.24	2.93	
11400.00	11333.00	90.00	266.28	6974.00	115.83	35.78	91.64	662.04	430.50	2.86	
11500.00	11432.99	90.00	266.28	6974.00	118.55	36.49	91.65	660.74	423.75	2.79	
11600.00	11532.98	90.00	266.28	6974.00	121.27	37.20	91.65	659.43	417.00	2.72	
11700.00	11632.97	90.00	266.28	6974.00	124.00	37.92	91.65	658.12	410.23	2.65	
11800.00	11732.96	90.00	266.28	6974.00	126.73	38.64	91.66	656.81	403.47	2.59	
11900.00	11832.95	90.00	266.28	6974.00	129.46	39.35	91.66	655.50	396.70	2.53	
12000.00	11932.94	90.00	266.28	6974.00	132.19	40.07	91.66	654.19	389.92	2.48	SF(Lo)
12100.00	12032.94	90.00	266.28	6974.00	134.93	40.79	91.67	652.88	383.14	2.42	SF(Lo)
12200.00	12132.93	90.00	266.28	6974.00	137.67	41.51	91.67	651.57	376.35	2.37	SF(Lo)
12300.00	12232.92	90.00	266.28	6974.00	140.41	42.23	91.67	650.27	369.56	2.32	SF(Lo)
12400.00	12332.91	90.00	266.28	6974.00	143.16	42.94	91.68	648.96	362.76	2.27	SF(Lo)
12500.00	12432.90	90.00	266.28	6974.00	145.90	43.66	91.68	647.65	355.96	2.22	SF(Lo)
12600.00	12532.89	90.00	266.28	6974.00	148.65	44.39	91.68	646.34	349.16	2.17	SF(Lo)
12700.00	12632.88	90.00	266.28	6974.00	151.40	45.11	91.69	645.03	342.35	2.13	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
12800.00	12732.88	90.00	266.28	6974.00	154.15	45.83	91.69	643.72	335.54	2.09	SF(Lo)
12900.00	12832.87	90.00	266.28	6974.00	156.90	46.55	91.69	642.41	328.73	2.05	SF(Lo)
13000.00	12932.86	90.00	266.28	6974.00	159.66	47.27	91.70	641.10	321.91	2.01	SF(Lo)
13100.00	13032.85	90.00	266.28	6974.00	162.41	47.99	91.70	639.80	315.09	1.97	SF(Lo)
13200.00	13132.84	90.00	266.28	6974.00	165.17	48.71	91.71	638.49	308.27	1.93	SF(Lo)
13300.00	13232.83	90.00	266.28	6974.00	167.93	49.44	91.71	637.18	301.45	1.90	SF(Lo)
13400.00	13332.82	90.00	266.28	6974.00	170.69	50.16	91.71	635.87	294.62	1.86	SF(Lo)
13500.00	13432.82	90.00	266.28	6974.00	173.45	50.88	91.72	634.56	287.79	1.83	SF(Lo)
13600.00	13532.81	90.00	266.28	6974.00	176.21	51.61	91.72	633.25	280.96	1.80	SF(Lo)
13700.00	13632.80	90.00	266.28	6974.00	178.97	52.33	91.72	631.94	274.12	1.77	SF(Lo)
13800.00	13732.79	90.00	266.28	6974.00	181.73	53.06	91.73	630.63	267.29	1.74	SF(Lo)
13900.00	13832.78	90.00	266.28	6974.00	184.50	53.78	91.73	629.33	260.45	1.71	SF(Lo)
14000.00	13932.77	90.00	266.28	6974.00	187.26	54.50	91.73	628.02	253.61	1.68	SF(Lo)
14100.00	14032.76	90.00	266.28	6974.00	190.03	55.23	91.74	626.71	246.77	1.65	SF(Lo)
14200.00	14132.76	90.00	266.28	6974.00	192.80	55.95	91.74	625.40	239.93	1.62	SF(Lo)
14300.00	14232.75	90.00	266.28	6974.00	195.56	56.68	91.74	624.09	233.08	1.60	SF(Lo)
14400.00	14332.74	90.00	266.28	6974.00	198.33	57.40	91.75	622.78	226.24	1.57	SF(Lo)
14500.00	14432.73	90.00	266.28	6974.00	201.10	58.13	91.75	621.47	219.39	1.55	SF(Lo)
14600.00	14532.72	90.00	266.28	6974.00	203.87	58.86	91.76	620.16	212.54	1.52	SF(Lo)
14700.00	14632.71	90.00	266.28	6974.00	206.64	59.58	91.76	618.86	205.69	1.50	SF(Med)
14800.00	14732.70	90.00	266.28	6974.00	209.42	60.31	91.76	617.55	198.84	1.47	SF(Med)
14900.00	14832.70	90.00	266.28	6974.00	212.19	61.03	91.77	616.24	191.99	1.45	SF(Med)
15000.00	14932.69	90.00	266.28	6974.00	214.96	61.76	91.77	614.93	185.14	1.43	SF(Med)
15100.00	15032.68	90.00	266.28	6974.00	217.73	62.49	91.77	613.62	178.28	1.41	SF(Med)
15200.00	15132.67	90.00	266.28	6974.00	220.51	63.21	91.78	612.31	171.42	1.39	SF(Med)
15300.00	15232.66	90.00	266.28	6974.00	223.28	63.94	91.78	611.00	164.57	1.37	SF(Med)
15400.00	15286.68	90.00	266.28	6974.00	224.78	64.33	91.78	611.43	163.35	1.36	SF(Med)
15500.00	15286.68	90.00	266.28	6974.00	224.78	64.33	91.78	625.65	188.88	1.43	SF(Med)
15600.00	15286.68	90.00	266.28	6974.00	224.78	64.33	91.78	655.01	238.88	1.57	SF(Lo)
15628.56	15286.68	90.00	266.28	6974.00	224.78	64.33	91.78	665.92	256.90	1.63	SF(Lo)
Secondary Well: Goetzel 13N-30A-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	218.54	40.41	37.68	14.75	CC (Lo)
600.00	599.93	0.00	0.00	599.93	1.24	1.24	215.69	43.20	40.05	13.74	CC (Lo)
700.00	699.68	0.00	0.00	699.68	1.46	1.46	210.99	49.04	45.45	13.68	CC (Lo)
800.00	799.96	1.00	131.86	799.96	1.67	1.67	205.98	57.90	53.89	14.42	CC (Lo)
900.00	901.27	3.03	131.86	901.20	1.86	1.86	202.54	67.69	63.27	15.30	
1000.00	1002.94	5.06	131.86	1002.61	2.07	2.05	200.37	77.85	73.00	16.03	
1100.00	1104.97	7.10	131.86	1104.06	2.30	2.26	199.07	88.26	82.94	16.59	
1200.00	1207.36	9.15	131.86	1205.42	2.57	2.46	198.37	98.85	93.05	17.04	
1300.00	1310.11	11.20	131.86	1306.55	2.88	2.68	198.12	109.58	103.25	17.32	
1400.00	1413.21	13.26	131.86	1407.30	3.26	2.91	198.18	120.42	113.55	17.53	
1500.00	1516.67	15.33	131.86	1507.55	3.70	3.14	198.50	131.24	123.76	17.55	
1600.00	1620.65	17.41	131.86	1607.31	4.22	3.39	199.31	139.74	131.56	17.10	
1700.00	1723.83	18.97	131.86	1705.22	4.80	3.65	200.70	145.18	136.25	16.25	
1800.00	1823.65	18.97	131.86	1799.62	5.41	3.92	202.16	149.84	140.08	15.36	
1900.00	1923.48	18.97	131.86	1894.02	6.04	4.20	203.52	154.58	143.97	14.57	
2000.00	2023.30	18.97	131.86	1988.42	6.68	4.49	204.80	159.40	147.87	13.82	
2100.00	2123.12	18.97	131.86	2082.82	7.33	4.78	206.00	164.30	151.81	13.15	
2200.00	2222.94	18.97	131.86	2177.22	7.98	5.07	207.14	169.27	155.79	12.56	
2300.00	2322.76	18.97	131.86	2271.62	8.65	5.37	208.21	174.30	159.80	12.02	

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
2400.00	2422.59	18.97	131.86	2366.02	9.31	5.67	209.22	179.38	163.85	11.55	
2500.00	2522.41	18.97	131.86	2460.42	9.98	5.97	210.17	184.52	167.92	11.11	
2600.00	2622.23	18.97	131.86	2554.83	10.66	6.28	211.08	189.71	172.01	10.72	
2700.00	2722.05	18.97	131.86	2649.23	11.33	6.58	211.93	194.94	176.14	10.37	
2800.00	2821.87	18.97	131.86	2743.63	12.01	6.89	212.74	200.22	180.27	10.04	
2900.00	2921.70	18.97	131.86	2838.03	12.69	7.20	213.51	205.53	184.43	9.74	
3000.00	3021.52	18.97	131.86	2932.43	13.37	7.51	214.24	210.87	188.62	9.48	
3100.00	3121.34	18.97	131.86	3026.83	14.06	7.82	214.93	216.25	192.84	9.24	
3200.00	3221.16	18.97	131.86	3121.23	14.74	8.13	215.59	221.66	197.08	9.02	
3300.00	3320.98	18.97	131.86	3215.63	15.42	8.44	216.22	227.10	201.34	8.82	
3400.00	3420.81	18.97	131.86	3310.03	16.11	8.76	216.81	232.56	205.62	8.63	
3500.00	3520.63	18.97	131.86	3404.43	16.79	9.07	217.38	238.05	209.89	8.45	
3600.00	3620.45	18.97	131.86	3498.83	17.48	9.38	217.93	243.55	214.18	8.29	
3700.00	3720.27	18.97	131.86	3593.23	18.17	9.70	218.45	249.08	218.49	8.14	
3800.00	3820.09	18.97	131.86	3687.63	18.85	10.01	218.95	254.63	222.82	8.00	
3900.00	3919.92	18.97	131.86	3782.03	19.54	10.33	219.42	260.20	227.16	7.87	
4000.00	4019.74	18.97	131.86	3876.43	20.23	10.64	219.88	265.79	231.51	7.75	
4100.00	4119.56	18.97	131.86	3970.83	20.92	10.96	220.32	271.39	235.88	7.64	
4200.00	4219.38	18.97	131.86	4065.23	21.61	11.28	220.74	277.00	240.24	7.54	
4300.00	4319.20	18.97	131.86	4159.63	22.30	11.59	221.14	282.63	244.62	7.43	
4400.00	4419.03	18.97	131.86	4254.03	22.99	11.91	221.53	288.28	249.00	7.34	
4500.00	4518.85	18.97	131.86	4348.43	23.68	12.23	221.90	293.94	253.39	7.25	
4600.00	4618.67	18.97	131.86	4442.83	24.37	12.55	222.26	299.60	257.80	7.17	
4700.00	4718.49	18.97	131.86	4537.23	25.06	12.86	222.61	305.28	262.21	7.09	
4800.00	4818.31	18.97	131.86	4631.63	25.75	13.18	222.94	310.98	266.64	7.01	
4900.00	4918.14	18.97	131.86	4726.03	26.44	13.50	223.26	316.68	271.07	6.94	
5000.00	5017.96	18.97	131.86	4820.43	27.13	13.82	223.57	322.39	275.51	6.88	
5100.00	5117.78	18.97	131.86	4914.83	27.82	14.14	223.87	328.11	279.96	6.81	
5200.00	5217.60	18.97	131.86	5009.23	28.51	14.45	224.16	333.83	284.41	6.75	
5300.00	5317.42	18.97	131.86	5103.63	29.20	14.77	224.44	339.57	288.87	6.70	
5400.00	5417.25	18.97	131.86	5198.03	29.89	15.09	224.71	345.31	293.34	6.64	
5500.00	5517.07	18.97	131.86	5292.43	30.58	15.41	224.97	351.06	297.82	6.59	
5600.00	5616.89	18.97	131.86	5386.83	31.27	15.73	225.22	356.82	302.30	6.54	
5700.00	5716.71	18.97	131.86	5481.23	31.96	16.05	225.46	362.59	306.79	6.50	
5800.00	5816.53	18.97	131.86	5575.63	32.66	16.37	225.70	368.36	311.29	6.45	
5900.00	5916.36	18.97	131.86	5670.03	33.35	16.69	225.93	374.14	315.79	6.41	
6000.00	6016.18	18.97	131.86	5764.43	34.04	17.01	226.15	379.92	320.29	6.37	
6100.00	6116.00	18.97	131.86	5858.83	34.73	17.33	226.37	385.71	324.80	6.33	
6200.00	6217.65	18.11	134.89	5955.01	35.41	17.65	226.55	391.47	329.30	6.30	
6300.00	6329.42	14.02	164.15	6062.56	35.64	17.89	225.19	395.27	332.89	6.34	
6400.00	6436.09	14.75	198.89	6166.08	35.24	17.89	221.63	397.02	336.18	6.53	
6500.00	6534.14	19.05	221.78	6259.97	34.44	17.67	209.69	399.41	341.40	6.89	
6600.00	6626.35	24.69	234.67	6345.57	33.38	17.28	180.21	405.07	350.12	7.37	
6700.00	6714.56	30.74	242.50	6423.65	32.17	16.70	149.78	413.88	361.72	7.94	
6800.00	6799.45	36.88	247.74	6494.16	30.94	15.93	126.39	425.08	375.24	8.53	
6900.00	6881.60	42.99	251.54	6557.12	29.77	15.00	110.37	437.87	389.93	9.13	
7000.00	6961.48	49.02	254.47	6612.58	28.77	13.91	99.22	451.43	404.78	9.68	
7100.00	7039.49	54.97	256.86	6660.60	28.01	12.71	91.12	465.00	419.08	10.13	
7200.00	7115.98	60.85	258.88	6701.22	27.51	11.51	85.08	477.92	432.25	10.47	
7300.00	7191.24	66.65	260.66	6734.49	27.29	10.45	80.51	489.62	443.57	10.63	
7400.00	7265.52	72.40	262.26	6760.46	27.37	9.76	77.10	499.65	452.57	10.61	
7500.00	7339.05	78.11	263.75	6779.17	27.68	9.61	74.63	507.64	458.99	10.44	
7600.00	7412.03	83.78	265.17	6790.65	28.19	10.11	72.98	513.31	462.63	10.13	
7700.00	7484.64	89.42	266.55	6794.96	28.87	11.21	72.09	516.49	463.30	9.71	
7800.00	7581.79	90.00	266.70	6795.00	29.86	11.80	71.95	516.46	461.35	9.37	
7900.00	7681.79	90.00	266.70	6795.00	31.07	12.33	71.93	515.90	458.57	9.00	
8000.00	7781.79	90.00	266.70	6795.00	32.46	12.90	71.91	515.34	455.48	8.61	
8100.00	7881.79	90.00	266.70	6795.00	34.03	13.48	71.89	514.78	451.95	8.19	

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
8200.00	7981.79	90.00	266.70	6795.00	35.75	14.09	71.87	514.22	448.25	7.80	
8300.00	8081.78	90.00	266.70	6795.00	37.59	14.71	71.85	513.65	444.14	7.39	
8400.00	8181.78	90.00	266.70	6795.00	39.55	15.35	71.83	513.09	439.89	7.01	
8500.00	8281.78	90.00	266.70	6795.00	41.60	15.99	71.81	512.53	435.40	6.64	
8600.00	8381.78	90.00	266.70	6795.00	43.73	16.65	71.79	511.97	430.77	6.31	
8700.00	8481.78	90.00	266.70	6795.00	45.94	17.31	71.77	511.41	426.01	5.99	
8800.00	8581.78	90.00	266.70	6795.00	48.20	17.98	71.75	510.85	421.25	5.70	
8900.00	8681.77	90.00	266.70	6795.00	50.52	18.65	71.73	510.29	416.35	5.43	
9000.00	8781.77	90.00	266.70	6795.00	52.89	19.32	71.71	509.72	411.28	5.18	
9100.00	8881.77	90.00	266.70	6795.00	55.29	20.00	71.68	509.16	406.15	4.94	
9200.00	8981.77	90.00	266.70	6795.00	57.74	20.69	71.66	508.60	400.97	4.73	
9300.00	9081.77	90.00	266.70	6795.00	60.21	21.37	71.64	508.04	395.72	4.52	
9400.00	9181.77	90.00	266.70	6795.00	62.71	22.06	71.62	507.48	390.42	4.34	
9500.00	9281.76	90.00	266.70	6795.00	65.24	22.76	71.60	506.92	385.08	4.16	
9600.00	9381.76	90.00	266.70	6795.00	67.78	23.45	71.58	506.36	379.71	4.00	
9700.00	9481.76	90.00	266.70	6795.00	70.35	24.15	71.56	505.80	374.31	3.85	
9800.00	9581.76	90.00	266.70	6795.00	72.93	24.84	71.54	505.24	368.87	3.71	
9900.00	9681.76	90.00	266.70	6795.00	75.53	25.54	71.52	504.68	363.42	3.57	
10000.00	9781.76	90.00	266.70	6795.00	78.14	26.24	71.49	504.12	357.94	3.45	
10100.00	9881.75	90.00	266.70	6795.00	80.76	26.95	71.47	503.56	352.45	3.33	
10200.00	9981.75	90.00	266.70	6795.00	83.40	27.65	71.45	503.00	346.86	3.22	
10300.00	10081.75	90.00	266.70	6795.00	86.05	28.36	71.43	502.44	341.25	3.12	
10400.00	10181.75	90.00	266.70	6795.00	88.70	29.06	71.41	501.88	335.63	3.02	
10500.00	10281.75	90.00	266.70	6795.00	91.37	29.77	71.39	501.32	330.00	2.93	
10600.00	10381.74	90.00	266.70	6795.00	94.04	30.48	71.37	500.76	324.36	2.84	
10700.00	10481.74	90.00	266.70	6795.00	96.72	31.19	71.34	500.20	318.71	2.76	
10800.00	10581.74	90.00	266.70	6795.00	99.40	31.90	71.32	499.64	313.07	2.68	
10900.00	10681.74	90.00	266.70	6795.00	102.09	32.61	71.30	499.08	307.42	2.60	
11000.00	10781.74	90.00	266.70	6795.00	104.79	33.33	71.28	498.52	301.76	2.53	
11100.00	10881.74	90.00	266.70	6795.00	107.49	34.04	71.26	497.96	296.01	2.47	SF(Lo)
11200.00	10981.73	90.00	266.70	6795.00	110.20	34.75	71.24	497.40	290.25	2.40	SF(Lo)
11300.00	11081.73	90.00	266.70	6795.00	112.91	35.47	71.21	496.84	284.49	2.34	SF(Lo)
11400.00	11181.73	90.00	266.70	6795.00	115.63	36.18	71.19	496.28	278.73	2.28	SF(Lo)
11500.00	11281.73	90.00	266.70	6795.00	118.35	36.90	71.17	495.72	272.98	2.23	SF(Lo)
11600.00	11381.73	90.00	266.70	6795.00	121.07	37.62	71.15	495.16	267.23	2.17	SF(Lo)
11700.00	11481.73	90.00	266.70	6795.00	123.80	38.34	71.13	494.60	261.48	2.12	SF(Lo)
11800.00	11581.72	90.00	266.70	6795.00	126.53	39.05	71.10	494.04	255.74	2.07	SF(Lo)
11900.00	11681.72	90.00	266.70	6795.00	129.26	39.77	71.08	493.48	250.00	2.03	SF(Lo)
12000.00	11781.72	90.00	266.70	6795.00	132.00	40.49	71.06	492.92	244.26	1.98	SF(Lo)
12100.00	11881.72	90.00	266.70	6795.00	134.73	41.21	71.04	492.36	238.53	1.94	SF(Lo)
12200.00	11981.72	90.00	266.70	6795.00	137.47	41.93	71.01	491.81	232.79	1.90	SF(Lo)
12300.00	12081.71	90.00	266.70	6795.00	140.22	42.65	70.99	491.25	227.05	1.86	SF(Lo)
12400.00	12181.71	90.00	266.70	6795.00	142.96	43.37	70.97	490.69	221.32	1.82	SF(Lo)
12500.00	12281.71	90.00	266.70	6795.00	145.71	44.09	70.95	490.13	215.58	1.79	SF(Lo)
12600.00	12381.71	90.00	266.70	6795.00	148.46	44.81	70.92	489.57	209.85	1.75	SF(Lo)
12700.00	12481.71	90.00	266.70	6795.00	151.21	45.54	70.90	489.01	204.11	1.72	SF(Lo)
12800.00	12581.71	90.00	266.70	6795.00	153.96	46.26	70.88	488.45	198.37	1.68	SF(Lo)
12900.00	12681.70	90.00	266.70	6795.00	156.71	46.98	70.86	487.90	192.63	1.65	SF(Lo)
13000.00	12781.70	90.00	266.70	6795.00	159.47	47.70	70.83	487.34	186.89	1.62	SF(Lo)
13100.00	12881.70	90.00	266.70	6795.00	162.23	48.43	70.81	486.78	181.15	1.59	SF(Lo)
13200.00	12981.70	90.00	266.70	6795.00	164.98	49.15	70.79	486.22	175.40	1.56	SF(Lo)
13300.00	13081.70	90.00	266.70	6795.00	167.74	49.88	70.76	485.66	169.66	1.54	SF(Lo)
13400.00	13181.70	90.00	266.70	6795.00	170.50	50.60	70.74	485.10	163.92	1.51	SF(Lo)
13500.00	13281.69	90.00	266.70	6795.00	173.27	51.32	70.72	484.55	158.17	1.48	SF(Med)
13600.00	13381.69	90.00	266.70	6795.00	176.03	52.05	70.70	483.99	152.43	1.46	SF(Med)
13700.00	13481.69	90.00	266.70	6795.00	178.79	52.77	70.67	483.43	146.68	1.44	SF(Med)
13800.00	13581.69	90.00	266.70	6795.00	181.56	53.50	70.65	482.87	140.94	1.41	SF(Med)
13900.00	13681.69	90.00	266.70	6795.00	184.32	54.22	70.63	482.32	135.19	1.39	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
14000.00	13781.69	90.00	266.70	6795.00	187.09	54.95	70.60	481.76	129.44	1.37	SF(Med)
14100.00	13881.68	90.00	266.70	6795.00	189.86	55.67	70.58	481.20	123.70	1.35	SF(Med)
14200.00	13981.68	90.00	266.70	6795.00	192.63	56.40	70.56	480.64	117.95	1.33	SF(Med)
14300.00	14081.68	90.00	266.70	6795.00	195.40	57.13	70.53	480.09	112.21	1.31	SF(Med)
14400.00	14181.68	90.00	266.70	6795.00	198.17	57.85	70.51	479.53	106.46	1.29	SF(Med)
14500.00	14281.68	90.00	266.70	6795.00	200.94	58.58	70.49	478.97	100.72	1.27	SF(Med)
14600.00	14381.67	90.00	266.70	6795.00	203.71	59.30	70.46	478.42	94.97	1.25	SF(Med)
14700.00	14481.67	90.00	266.70	6795.00	206.49	60.03	70.44	477.86	89.22	1.23	SF(Med)
14800.00	14581.67	90.00	266.70	6795.00	209.26	60.76	70.41	477.30	83.48	1.21	SF(Med)
14900.00	14681.67	90.00	266.70	6795.00	212.03	61.49	70.39	476.75	77.74	1.19	SF(Med)
15000.00	14781.67	90.00	266.70	6795.00	214.81	62.21	70.37	476.19	71.99	1.18	SF(Med)
15100.00	14881.67	90.00	266.70	6795.00	217.58	62.94	70.34	475.63	66.25	1.16	SF(Med)
15200.00	14981.66	90.00	266.70	6795.00	220.36	63.67	70.32	475.08	60.51	1.15	SF(Med)
15300.00	15081.66	90.00	266.70	6795.00	223.13	64.39	70.29	474.52	54.76	1.13	SF(Med)
15400.00	15136.85	90.00	266.70	6795.00	224.67	64.80	70.28	476.08	55.85	1.13	SF(Med)
15500.00	15136.85	90.00	266.70	6795.00	224.67	64.80	70.28	495.06	92.53	1.23	SF(Med)
15600.00	15136.85	90.00	266.70	6795.00	224.67	64.80	70.28	532.47	159.65	1.43	SF(Med)
15628.56	15136.85	90.00	266.70	6795.00	224.67	64.80	70.28	546.05	182.58	1.50	SF(Lo)

Secondary Well: Goetzel 13C-30-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	20.04	19.31	27.33	CC (Med)
100.00	100.00	0.00	0.00	100.00	0.11	0.11	0.35	20.04	19.08	21.01	CC (Med)
200.00	200.00	0.00	0.00	200.00	0.34	0.34	0.35	20.04	18.64	14.28	CC (Med)
300.00	300.00	0.00	0.00	300.00	0.56	0.56	0.35	20.04	18.19	10.81	CC (Med)
400.00	400.00	0.00	0.00	400.00	0.79	0.79	0.35	20.04	17.74	8.70	CC (Med)
500.00	500.00	0.00	0.00	500.00	1.01	1.01	218.55	20.38	17.64	7.44	CC (Med)
600.00	599.93	0.00	0.00	599.93	1.24	1.24	213.21	23.21	20.06	7.38	CC (Med)
700.00	700.55	2.01	138.18	700.52	1.44	1.44	207.44	27.77	24.22	7.82	CC (Med)
800.00	801.34	4.03	138.18	801.18	1.63	1.63	203.63	32.59	28.63	8.23	CC (Med)
900.00	902.33	6.05	138.18	901.77	1.85	1.82	201.08	37.55	33.16	8.57	CC (Lo)
1000.00	1003.50	8.07	138.18	1002.16	2.10	2.03	199.36	42.59	37.76	8.83	CC (Lo)
1100.00	1104.85	10.10	138.18	1102.24	2.40	2.24	198.23	47.68	42.38	9.01	CC (Lo)
1200.00	1206.38	12.13	138.18	1201.87	2.75	2.47	197.51	52.79	46.99	9.10	CC (Lo)
1300.00	1308.10	14.16	138.18	1300.91	3.16	2.70	197.11	57.90	51.57	9.14	CC (Lo)
1400.00	1409.99	16.20	138.18	1399.24	3.64	2.94	196.93	63.01	56.13	9.16	CC (Lo)
1500.00	1512.07	18.24	138.18	1496.74	4.19	3.20	196.97	67.98	60.49	9.07	
1600.00	1613.42	19.47	138.18	1592.51	4.81	3.47	197.67	70.74	62.57	8.66	
1700.00	1713.39	19.47	138.18	1686.76	5.45	3.75	198.49	72.90	64.00	8.18	
1800.00	1813.36	19.47	138.18	1781.01	6.11	4.04	199.27	75.08	65.41	7.76	
1900.00	1913.33	19.47	138.18	1875.27	6.77	4.34	200.00	77.27	66.83	7.40	
2000.00	2013.30	19.47	138.18	1969.52	7.45	4.64	200.69	79.48	68.25	7.08	
2100.00	2113.27	19.47	138.18	2063.78	8.13	4.94	201.34	81.69	69.64	6.78	
2200.00	2213.24	19.47	138.18	2158.03	8.81	5.25	201.96	83.91	71.02	6.51	
2300.00	2313.22	19.47	138.18	2252.29	9.50	5.56	202.54	86.15	72.37	6.25	
2400.00	2413.19	19.47	138.18	2346.54	10.19	5.87	203.10	88.39	73.72	6.02	
2500.00	2513.16	19.47	138.18	2440.79	10.88	6.18	203.63	90.64	75.06	5.82	
2600.00	2613.13	19.47	138.18	2535.05	11.58	6.49	204.13	92.89	76.41	5.63	
2700.00	2713.10	19.47	138.18	2629.30	12.27	6.81	204.61	95.16	77.75	5.47	
2800.00	2813.07	19.47	138.18	2723.56	12.97	7.12	205.07	97.43	79.10	5.32	
2900.00	2913.04	19.47	138.18	2817.81	13.67	7.44	205.50	99.70	80.44	5.18	
3000.00	3013.01	19.47	138.18	2912.06	14.37	7.76	205.92	101.99	81.79	5.05	
3100.00	3112.99	19.47	138.18	3006.32	15.07	8.07	206.32	104.27	83.13	4.93	
3200.00	3212.96	19.47	138.18	3100.57	15.77	8.39	206.70	106.56	84.45	4.82	
3300.00	3312.93	19.47	138.18	3194.83	16.47	8.71	207.06	108.86	85.78	4.72	
3400.00	3412.90	19.47	138.18	3289.08	17.17	9.03	207.41	111.16	87.10	4.62	
3500.00	3512.87	19.47	138.18	3383.34	17.87	9.35	207.75	113.46	88.41	4.53	

5D Anti-Collision Report

Secondary Well: Goetzel 13C-30-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
3600.00	3612.84	19.47	138.18	3477.59	18.58	9.67	208.07	115.77	89.72	4.44	
3700.00	3712.81	19.47	138.18	3571.84	19.28	9.99	208.38	118.08	91.02	4.36	
3800.00	3812.78	19.47	138.18	3666.10	19.98	10.32	208.68	120.40	92.33	4.29	
3900.00	3912.76	19.47	138.18	3760.35	20.69	10.64	208.97	122.72	93.63	4.22	
4000.00	4012.73	19.47	138.18	3854.61	21.39	10.96	209.24	125.04	94.93	4.15	
4100.00	4112.70	19.47	138.18	3948.86	22.09	11.28	209.51	127.36	96.24	4.09	
4200.00	4212.67	19.47	138.18	4043.12	22.80	11.60	209.77	129.69	97.54	4.03	
4300.00	4312.64	19.47	138.18	4137.37	23.50	11.93	210.01	132.01	98.84	3.98	
4400.00	4412.61	19.47	138.18	4231.62	24.21	12.25	210.25	134.35	100.15	3.93	
4500.00	4512.58	19.47	138.18	4325.88	24.91	12.57	210.48	136.68	101.45	3.88	
4600.00	4612.55	19.47	138.18	4420.13	25.62	12.90	210.71	139.01	102.76	3.83	
4700.00	4712.53	19.47	138.18	4514.39	26.32	13.22	210.92	141.35	104.06	3.79	
4800.00	4812.50	19.47	138.18	4608.64	27.03	13.54	211.13	143.69	105.36	3.75	
4900.00	4912.47	19.47	138.18	4702.89	27.73	13.87	211.33	146.03	106.67	3.71	
5000.00	5012.44	19.47	138.18	4797.15	28.44	14.19	211.53	148.38	107.97	3.67	
5100.00	5112.41	19.47	138.18	4891.40	29.15	14.51	211.72	150.72	109.28	3.64	
5200.00	5212.38	19.47	138.18	4985.66	29.85	14.84	211.90	153.07	110.58	3.60	
5300.00	5312.35	19.47	138.18	5079.91	30.56	15.16	212.08	155.42	111.89	3.57	
5400.00	5412.33	19.47	138.18	5174.17	31.26	15.49	212.25	157.76	113.19	3.54	
5500.00	5512.30	19.47	138.18	5268.42	31.97	15.81	212.42	160.12	114.50	3.51	
5600.00	5612.27	19.47	138.18	5362.67	32.67	16.14	212.58	162.47	115.80	3.48	
5700.00	5712.24	19.47	138.18	5456.93	33.38	16.46	212.74	164.82	117.11	3.45	
5800.00	5812.21	19.47	138.18	5551.18	34.09	16.78	212.89	167.18	118.41	3.43	
5900.00	5912.18	19.47	138.18	5645.44	34.79	17.11	213.04	169.53	119.72	3.40	
6000.00	6012.15	19.47	138.18	5739.69	35.50	17.43	213.19	171.89	121.02	3.38	
6100.00	6112.12	19.47	138.18	5833.95	36.21	17.76	213.33	174.25	122.31	3.36	
6200.00	6212.10	19.47	138.18	5928.20	36.91	18.08	213.47	176.60	123.60	3.33	
6300.00	6312.07	19.47	138.18	6022.45	37.62	18.41	213.60	178.96	124.90	3.31	
6400.00	6412.04	19.47	138.18	6116.71	38.33	18.73	213.73	181.33	126.19	3.29	
6500.00	6511.99	19.47	138.18	6210.95	39.03	19.06	207.25	183.68	127.30	3.26	
6600.00	6611.92	16.39	156.13	6305.88	39.47	19.35	185.41	186.23	127.32	3.16	
6700.00	6712.94	15.49	185.69	6403.18	39.22	19.47	162.35	189.20	128.19	3.10	
6800.00	6815.16	18.46	212.10	6501.08	38.39	19.41	145.82	192.50	130.05	3.08	
6900.00	6918.58	23.99	229.29	6597.54	37.02	19.14	136.04	196.03	132.83	3.10	
7000.00	7023.16	30.80	239.93	6690.38	35.24	18.61	130.43	199.65	136.41	3.16	
7100.00	7128.83	38.27	246.97	6777.40	33.22	17.76	127.15	203.20	140.60	3.25	
7200.00	7235.50	46.11	252.02	6856.40	31.24	16.50	125.15	206.54	145.16	3.36	
7300.00	7343.03	54.18	255.90	6925.27	29.62	14.78	123.87	209.55	149.78	3.51	
7400.00	7451.26	62.41	259.08	6982.12	28.61	12.74	123.00	212.08	153.79	3.64	
7500.00	7560.00	70.74	261.82	7025.32	28.29	10.89	122.36	214.06	157.00	3.75	
7600.00	7669.03	79.12	264.30	7053.65	28.60	10.16	121.83	215.40	159.01	3.82	
7700.00	7778.13	87.54	266.64	7066.31	29.42	11.24	121.36	216.07	159.36	3.81	
7800.00	7880.77	90.00	267.32	7067.00	30.41	12.23	121.17	216.42	158.23	3.72	
7900.00	7980.77	90.00	267.32	7067.00	31.53	12.76	121.10	216.85	156.51	3.59	
8000.00	8080.77	90.00	267.32	7067.00	32.84	13.32	121.03	217.27	154.49	3.46	
8100.00	8180.77	90.00	267.32	7067.00	34.33	13.91	120.96	217.69	152.27	3.33	
8200.00	8280.77	90.00	267.32	7067.00	35.97	14.52	120.90	218.12	149.77	3.19	
8300.00	8380.76	90.00	267.32	7067.00	37.74	15.15	120.83	218.54	146.98	3.05	
8400.00	8480.76	90.00	267.32	7067.00	39.63	15.80	120.76	218.97	144.14	2.93	
8500.00	8580.76	90.00	267.32	7067.00	41.62	16.46	120.70	219.39	140.98	2.80	
8600.00	8680.76	90.00	267.32	7067.00	43.70	17.12	120.63	219.82	137.84	2.68	
8700.00	8780.76	90.00	267.32	7067.00	45.86	17.79	120.57	220.24	134.47	2.57	
8800.00	8880.76	90.00	267.32	7067.00	48.08	18.47	120.50	220.67	130.91	2.46	SF(Lo)
8900.00	8980.76	90.00	267.32	7067.00	50.36	19.15	120.44	221.10	127.34	2.36	SF(Lo)
9000.00	9080.76	90.00	267.32	7067.00	52.70	19.83	120.37	221.52	123.69	2.26	SF(Lo)
9100.00	9180.75	90.00	267.32	7067.00	55.07	20.52	120.31	221.95	119.96	2.18	SF(Lo)
9200.00	9280.75	90.00	267.32	7067.00	57.48	21.20	120.24	222.38	116.16	2.09	SF(Lo)
9300.00	9380.75	90.00	267.32	7067.00	59.93	21.90	120.18	222.80	112.29	2.02	SF(Lo)

5D Anti-Collision Report

Secondary Well: Goetzel 13C-30-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
9400.00	9480.75	90.00	267.32	7067.00	62.41	22.59	120.11	223.23	108.37	1.94	SF(Lo)
9500.00	9580.75	90.00	267.32	7067.00	64.91	23.29	120.05	223.66	104.39	1.88	SF(Lo)
9600.00	9680.75	90.00	267.32	7067.00	67.44	23.98	119.99	224.09	100.36	1.81	SF(Lo)
9700.00	9780.75	90.00	267.32	7067.00	69.99	24.68	119.92	224.51	96.30	1.75	SF(Lo)
9800.00	9880.75	90.00	267.32	7067.00	72.56	25.38	119.86	224.94	92.20	1.69	SF(Lo)
9900.00	9980.74	90.00	267.32	7067.00	75.14	26.08	119.80	225.37	88.06	1.64	SF(Lo)
10000.00	10080.74	90.00	267.32	7067.00	77.74	26.79	119.74	225.80	83.91	1.59	SF(Lo)
10100.00	10180.74	90.00	267.32	7067.00	80.35	27.49	119.67	226.23	79.72	1.54	SF(Lo)
10200.00	10280.74	90.00	267.32	7067.00	82.98	28.20	119.61	226.66	75.52	1.50	SF(Med)
10300.00	10380.74	90.00	267.32	7067.00	85.62	28.90	119.55	227.09	71.30	1.46	SF(Med)
10400.00	10480.74	90.00	267.32	7067.00	88.26	29.61	119.49	227.52	67.07	1.42	SF(Med)
10500.00	10580.74	90.00	267.32	7067.00	90.92	30.32	119.43	227.95	62.83	1.38	SF(Med)
10600.00	10680.74	90.00	267.32	7067.00	93.58	31.03	119.37	228.38	58.59	1.35	SF(Med)
10700.00	10780.73	90.00	267.32	7067.00	96.25	31.74	119.31	228.81	54.35	1.31	SF(Med)
10800.00	10880.73	90.00	267.32	7067.00	98.93	32.45	119.25	229.24	50.12	1.28	SF(Med)
10900.00	10980.73	90.00	267.32	7067.00	101.62	33.17	119.19	229.68	45.85	1.25	SF(Med)
11000.00	11080.73	90.00	267.32	7067.00	104.31	33.88	119.13	230.11	41.52	1.22	SF(Med)
11100.00	11180.73	90.00	267.32	7067.00	107.01	34.59	119.07	230.54	37.20	1.19	SF(Med)
11200.00	11280.73	90.00	267.32	7067.00	109.71	35.31	119.01	230.97	32.89	1.17	SF(Med)
11300.00	11380.73	90.00	267.32	7067.00	112.42	36.02	118.95	231.40	28.51	1.14	SF(Med)
11400.00	11480.73	90.00	267.32	7067.00	115.13	36.74	118.89	231.84	24.09	1.12	SF(Med)
11500.00	11580.72	90.00	267.32	7067.00	117.85	37.45	118.83	232.27	19.69	1.09	SF(Med)
11600.00	11680.72	90.00	267.32	7067.00	120.57	38.17	118.77	232.70	15.26	1.07	SF(Med)
11700.00	11780.72	90.00	267.32	7067.00	123.30	38.89	118.71	233.14	10.77	1.05	SF(Med)
11800.00	11880.72	90.00	267.32	7067.00	126.02	39.61	118.65	233.57	6.29	1.03	SF(Med)
11900.00	11980.72	90.00	267.32	7067.00	128.75	40.32	118.60	234.00	1.81	1.01	SF(Med)
12000.00	12080.72	90.00	267.32	7067.00	131.49	41.04	118.54	234.44	-2.79	0.99	SF(Hi)
12100.00	12180.72	90.00	267.32	7067.00	134.22	41.76	118.48	234.87	-7.38	0.97	SF(Hi)
12200.00	12280.72	90.00	267.32	7067.00	136.96	42.48	118.42	235.31	-11.97	0.95	SF(Hi)
12300.00	12380.72	90.00	267.32	7067.00	139.70	43.20	118.37	235.74	-16.55	0.93	SF(Hi)
12400.00	12480.71	90.00	267.32	7067.00	142.45	43.92	118.31	236.18	-21.14	0.92	SF(Hi)
12500.00	12580.71	90.00	267.32	7067.00	145.19	44.64	118.25	236.61	-25.73	0.90	SF(Hi)
12600.00	12680.71	90.00	267.32	7067.00	147.94	45.37	118.20	237.05	-30.31	0.89	SF(Hi)
12700.00	12780.71	90.00	267.32	7067.00	150.69	46.09	118.14	237.48	-34.91	0.87	SF(Hi)
12800.00	12880.71	90.00	267.32	7067.00	153.44	46.81	118.08	237.92	-39.50	0.86	SF(Hi)
12900.00	12980.71	90.00	267.32	7067.00	156.20	47.53	118.03	238.36	-44.10	0.84	SF(Hi)
13000.00	13080.71	90.00	267.32	7067.00	158.95	48.25	117.97	238.79	-48.70	0.83	SF(Hi)
13100.00	13180.71	90.00	267.32	7067.00	161.71	48.98	117.92	239.23	-53.31	0.82	SF(Hi)
13200.00	13280.70	90.00	267.32	7067.00	164.47	49.70	117.86	239.67	-57.92	0.81	SF(Hi)
13300.00	13380.70	90.00	267.32	7067.00	167.23	50.42	117.81	240.10	-62.53	0.79	SF(Hi)
13400.00	13480.70	90.00	267.32	7067.00	169.99	51.15	117.75	240.54	-67.15	0.78	SF(Hi)
13500.00	13580.70	90.00	267.32	7067.00	172.75	51.87	117.70	240.98	-71.78	0.77	SF(Hi)
13600.00	13680.70	90.00	267.32	7067.00	175.52	52.60	117.64	241.42	-76.41	0.76	SF(Hi)
13700.00	13780.70	90.00	267.32	7067.00	178.28	53.32	117.59	241.86	-81.04	0.75	SF(Hi)
13800.00	13880.70	90.00	267.32	7067.00	181.05	54.04	117.53	242.29	-85.68	0.74	SF(Hi)
13900.00	13980.70	90.00	267.32	7067.00	183.81	54.77	117.48	242.73	-90.32	0.73	SF(Hi)
14000.00	14080.69	90.00	267.32	7067.00	186.58	55.49	117.42	243.17	-94.97	0.72	SF(Hi)
14100.00	14180.69	90.00	267.32	7067.00	189.35	56.22	117.37	243.61	-99.62	0.71	SF(Hi)
14200.00	14280.69	90.00	267.32	7067.00	192.12	56.95	117.32	244.05	-104.28	0.70	SF(Hi)
14300.00	14380.69	90.00	267.32	7067.00	194.89	57.67	117.26	244.49	-108.94	0.69	SF(Hi)
14400.00	14480.69	90.00	267.32	7067.00	197.66	58.40	117.21	244.93	-113.61	0.68	SF(Hi)
14500.00	14580.69	90.00	267.32	7067.00	200.44	59.12	117.16	245.37	-118.27	0.67	SF(Hi)
14600.00	14680.69	90.00	267.32	7067.00	203.21	59.85	117.11	245.81	-122.95	0.67	SF(Hi)
14700.00	14780.69	90.00	267.32	7067.00	205.98	60.58	117.05	246.25	-127.63	0.66	SF(Hi)
14800.00	14880.68	90.00	267.32	7067.00	208.76	61.30	117.00	246.69	-132.31	0.65	SF(Hi)
14900.00	14980.68	90.00	267.32	7067.00	211.53	62.03	116.95	247.13	-137.00	0.64	SF(Hi)
15000.00	15080.68	90.00	267.32	7067.00	214.31	62.75	116.90	247.57	-141.69	0.64	SF(Hi)
15100.00	15180.68	90.00	267.32	7067.00	217.09	63.48	116.85	248.01	-146.38	0.63	SF(Hi)

5D Anti-Collision Report

Secondary Well: Goetzel 13C-30-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
15200.00	15280.68	90.00	267.32	7067.00	219.86	64.21	116.79	248.45	-151.08	0.62	SF(Hi)
15300.00	15380.68	90.00	267.32	7067.00	222.64	64.94	116.74	248.89	-155.78	0.62	SF(Hi)
15400.00	15480.68	90.00	267.32	7067.00	225.42	65.66	116.69	249.33	-160.49	0.61	SF(Hi)
15500.00	15580.68	90.00	267.32	7067.00	228.20	66.39	116.64	249.78	-165.20	0.60	SF(Hi)
15600.00	15680.67	90.00	267.32	7067.00	230.98	67.12	116.59	250.22	-169.92	0.60	SF(Hi)
15628.56	15701.00	90.00	267.32	7067.00	231.54	67.27	116.58	250.48	-169.76	0.60	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	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	399.40	1.99	144.12	399.38	0.76	0.76	177.62	21.46	19.18	9.42	CC (Med)
500.00	498.59	3.97	144.12	498.43	0.96	0.96	30.76	25.58	22.89	9.50	CC (Med)
600.00	597.58	5.95	144.12	597.05	1.19	1.16	26.53	30.33	27.25	9.83	CC (Med)
700.00	696.40	7.93	144.12	695.13	1.47	1.38	23.75	35.24	31.73	10.04	CC (Lo)
800.00	795.04	9.90	144.12	792.58	1.78	1.60	21.92	40.23	36.28	10.19	CC (Lo)
900.00	893.52	11.87	144.12	889.28	2.15	1.83	20.73	45.27	40.85	10.26	CC (Lo)
1000.00	991.82	13.84	144.12	985.12	2.58	2.08	19.99	50.32	45.42	10.27	CC (Lo)
1100.00	1089.96	15.80	144.12	1079.99	3.07	2.33	19.58	55.38	49.98	10.24	CC (Lo)
1200.00	1187.93	17.76	144.12	1173.78	3.62	2.59	19.42	60.43	54.47	10.13	CC (Lo)
1300.00	1285.74	19.71	144.12	1266.41	4.23	2.86	19.44	65.47	58.93	10.01	CC (Lo)
1400.00	1384.32	20.88	144.12	1358.72	4.91	3.15	19.68	70.22	63.03	9.76	
1500.00	1484.29	20.88	144.12	1452.12	5.62	3.46	20.66	72.41	64.49	9.14	
1600.00	1584.27	20.88	144.12	1545.53	6.34	3.77	21.86	73.78	65.06	8.47	
1700.00	1684.24	20.88	144.12	1638.94	7.07	4.09	23.02	75.17	65.63	7.87	
1800.00	1784.22	20.88	144.12	1732.35	7.80	4.41	24.14	76.60	66.20	7.37	
1900.00	1884.20	20.88	144.12	1825.76	8.54	4.73	25.21	78.05	66.76	6.91	
2000.00	1984.18	20.88	144.12	1919.18	9.27	5.06	26.25	79.53	67.29	6.50	
2100.00	2084.16	20.88	144.12	2012.59	10.01	5.39	27.24	81.04	67.83	6.13	
2200.00	2184.14	20.88	144.12	2106.00	10.75	5.72	28.20	82.57	68.36	5.81	
2300.00	2284.12	20.88	144.12	2199.41	11.50	6.04	29.13	84.12	68.91	5.53	
2400.00	2384.10	20.88	144.12	2292.82	12.24	6.38	30.02	85.69	69.44	5.27	
2500.00	2484.08	20.88	144.12	2386.24	12.98	6.71	30.87	87.28	69.97	5.04	
2600.00	2584.05	20.88	144.12	2479.65	13.73	7.04	31.70	88.89	70.47	4.83	
2700.00	2684.03	20.88	144.12	2573.06	14.47	7.37	32.50	90.52	70.98	4.63	
2800.00	2784.01	20.88	144.12	2666.47	15.22	7.70	33.27	92.17	71.49	4.46	
2900.00	2883.99	20.88	144.12	2759.88	15.96	8.04	34.01	93.83	72.01	4.30	
3000.00	2983.97	20.88	144.12	2853.30	16.71	8.37	34.73	95.50	72.54	4.16	
3100.00	3083.95	20.88	144.12	2946.71	17.46	8.71	35.42	97.20	73.07	4.03	
3200.00	3183.93	20.88	144.12	3040.12	18.20	9.04	36.09	98.90	73.60	3.91	
3300.00	3283.91	20.88	144.12	3133.53	18.95	9.38	36.73	100.62	74.14	3.80	
3400.00	3383.89	20.88	144.12	3226.94	19.70	9.71	37.36	102.35	74.66	3.70	
3500.00	3483.87	20.88	144.12	3320.36	20.45	10.05	37.96	104.09	75.18	3.60	
3600.00	3583.84	20.88	144.12	3413.77	21.19	10.38	38.54	105.84	75.71	3.51	
3700.00	3683.82	20.88	144.12	3507.18	21.94	10.72	39.11	107.61	76.21	3.43	
3800.00	3783.80	20.88	144.12	3600.59	22.69	11.05	39.65	109.38	76.72	3.35	
3900.00	3883.78	20.88	144.12	3694.00	23.44	11.39	40.18	111.16	77.23	3.28	
4000.00	3983.76	20.88	144.12	3787.42	24.19	11.73	40.69	112.96	77.75	3.21	
4100.00	4083.74	20.88	144.12	3880.83	24.93	12.06	41.19	114.76	78.27	3.14	
4200.00	4183.72	20.88	144.12	3974.24	25.68	12.40	41.67	116.57	78.79	3.09	
4300.00	4283.70	20.88	144.12	4067.65	26.43	12.73	42.13	118.39	79.32	3.03	
4400.00	4383.68	20.88	144.12	4161.06	27.18	13.07	42.58	120.21	79.85	2.98	
4500.00	4483.65	20.88	144.12	4254.48	27.93	13.41	43.02	122.04	80.39	2.93	
4600.00	4583.63	20.88	144.12	4347.89	28.68	13.74	43.44	123.88	80.93	2.88	
4700.00	4683.61	20.88	144.12	4441.30	29.43	14.08	43.86	125.73	81.47	2.84	

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
4800.00	4783.59	20.88	144.12	4534.71	30.18	14.42	44.26	127.58	82.02	2.80	
4900.00	4883.57	20.88	144.12	4628.12	30.92	14.76	44.65	129.44	82.57	2.76	
5000.00	4983.55	20.88	144.12	4721.54	31.67	15.09	45.02	131.30	83.12	2.73	
5100.00	5083.53	20.88	144.12	4814.95	32.42	15.43	45.39	133.17	83.68	2.69	
5200.00	5183.51	20.88	144.12	4908.36	33.17	15.77	45.75	135.05	84.24	2.66	
5300.00	5283.49	20.88	144.12	5001.77	33.92	16.10	46.09	136.93	84.80	2.63	
5400.00	5383.46	20.88	144.12	5095.18	34.67	16.44	46.43	138.81	85.37	2.60	
5500.00	5483.44	20.88	144.12	5188.59	35.42	16.78	46.76	140.70	85.93	2.57	
5600.00	5583.42	20.88	144.12	5282.01	36.17	17.12	47.08	142.59	86.48	2.54	
5700.00	5683.40	20.88	144.12	5375.42	36.92	17.45	47.39	144.49	87.03	2.51	
5800.00	5783.38	20.88	144.12	5468.83	37.67	17.79	47.70	146.39	87.59	2.49	SF(Lo)
5900.00	5883.36	20.88	144.12	5562.24	38.42	18.13	47.99	148.30	88.15	2.47	SF(Lo)
6000.00	5983.34	20.88	144.12	5655.65	39.17	18.47	48.28	150.21	88.71	2.44	SF(Lo)
6100.00	6083.32	20.88	144.12	5749.07	39.92	18.80	48.56	152.13	89.28	2.42	SF(Lo)
6200.00	6183.30	20.88	144.12	5842.48	40.67	19.14	48.84	154.04	89.84	2.40	SF(Lo)
6300.00	6283.28	20.88	144.12	5935.89	41.42	19.48	49.10	155.96	90.39	2.38	SF(Lo)
6400.00	6383.25	20.88	144.12	6029.30	42.17	19.82	49.36	157.89	90.94	2.36	SF(Lo)
6500.00	6483.23	20.88	144.12	6122.71	42.91	20.15	42.53	159.58	91.53	2.34	SF(Lo)
6600.00	6582.56	20.88	144.12	6215.51	43.66	20.49	14.50	158.77	92.65	2.40	SF(Lo)
6700.00	6678.64	18.75	157.73	6305.72	44.17	20.79	341.56	157.66	97.13	2.60	
6800.00	6776.20	17.85	182.61	6398.49	43.94	20.98	315.02	159.60	105.15	2.93	
6900.00	6876.97	20.21	206.45	6493.90	42.98	21.02	295.70	164.71	115.50	3.35	
7000.00	6981.27	25.17	223.99	6590.20	41.30	20.89	281.40	172.57	127.03	3.79	
7100.00	7089.37	31.77	235.81	6685.25	38.96	20.53	270.52	182.45	139.20	4.22	
7200.00	7201.47	39.39	244.00	6776.41	36.13	19.82	262.14	193.45	151.56	4.62	
7300.00	7317.62	47.71	250.03	6860.56	33.17	18.56	255.71	204.63	163.94	5.03	
7400.00	7437.72	56.56	254.76	6934.23	30.72	16.45	250.86	215.09	175.18	5.39	
7500.00	7561.39	65.83	258.71	6993.76	29.34	13.51	247.35	224.03	183.45	5.52	
7600.00	7688.04	75.42	262.19	7035.74	29.10	10.92	245.02	230.79	187.77	5.36	
7700.00	7816.78	85.21	265.44	7057.37	29.80	10.95	243.77	234.86	187.39	4.95	
7800.00	7931.15	90.00	266.98	7060.00	30.87	12.49	243.55	235.76	184.78	4.62	
7900.00	8031.15	90.00	266.98	7060.00	31.92	13.04	243.56	235.85	182.92	4.46	
8000.00	8131.15	90.00	266.98	7060.00	33.17	13.62	243.57	235.94	180.75	4.27	
8100.00	8231.15	90.00	266.98	7060.00	34.60	14.24	243.59	236.03	178.18	4.08	
8200.00	8331.15	90.00	266.98	7060.00	36.18	14.89	243.60	236.12	175.32	3.88	
8300.00	8431.15	90.00	266.98	7060.00	37.89	15.56	243.61	236.22	172.16	3.69	
8400.00	8531.15	90.00	266.98	7060.00	39.72	16.24	243.62	236.31	168.92	3.51	
8500.00	8631.15	90.00	266.98	7060.00	41.66	16.93	243.63	236.40	165.31	3.33	
8600.00	8731.15	90.00	266.98	7060.00	43.70	17.62	243.64	236.49	161.58	3.16	
8700.00	8831.15	90.00	266.98	7060.00	45.81	18.32	243.65	236.58	157.83	3.00	
8800.00	8931.15	90.00	266.98	7060.00	47.99	19.03	243.66	236.68	153.86	2.86	
8900.00	9031.15	90.00	266.98	7060.00	50.24	19.74	243.67	236.77	149.65	2.72	
9000.00	9131.15	90.00	266.98	7060.00	52.53	20.44	243.69	236.86	145.40	2.59	
9100.00	9231.15	90.00	266.98	7060.00	54.88	21.15	243.70	236.95	141.10	2.47	SF(Lo)
9200.00	9331.15	90.00	266.98	7060.00	57.26	21.86	243.71	237.04	136.74	2.36	SF(Lo)
9300.00	9431.15	90.00	266.98	7060.00	59.69	22.57	243.72	237.14	132.33	2.26	SF(Lo)
9400.00	9531.15	90.00	266.98	7060.00	62.14	23.28	243.73	237.23	127.87	2.17	SF(Lo)
9500.00	9631.15	90.00	266.98	7060.00	64.62	23.99	243.74	237.32	123.37	2.08	SF(Lo)
9600.00	9731.15	90.00	266.98	7060.00	67.13	24.70	243.75	237.41	118.84	2.00	SF(Lo)
9700.00	9831.15	90.00	266.98	7060.00	69.66	25.42	243.76	237.50	114.27	1.93	SF(Lo)
9800.00	9931.15	90.00	266.98	7060.00	72.21	26.13	243.77	237.60	109.67	1.86	SF(Lo)
9900.00	10031.15	90.00	266.98	7060.00	74.78	26.84	243.78	237.69	105.05	1.79	SF(Lo)
10000.00	10131.15	90.00	266.98	7060.00	77.37	27.55	243.80	237.78	100.40	1.73	SF(Lo)
10100.00	10231.15	90.00	266.98	7060.00	79.97	28.27	243.81	237.87	95.72	1.67	SF(Lo)
10200.00	10331.15	90.00	266.98	7060.00	82.58	28.98	243.82	237.97	91.03	1.62	SF(Lo)
10300.00	10431.15	90.00	266.98	7060.00	85.20	29.69	243.83	238.06	86.31	1.57	SF(Lo)
10400.00	10531.15	90.00	266.98	7060.00	87.84	30.41	243.84	238.15	81.58	1.52	SF(Lo)
10500.00	10631.15	90.00	266.98	7060.00	90.49	31.12	243.85	238.24	76.83	1.48	SF(Med)

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
10600.00	10731.15	90.00	266.98	7060.00	93.14	31.84	243.86	238.33	72.06	1.43	SF(Med)
10700.00	10831.15	90.00	266.98	7060.00	95.80	32.56	243.87	238.43	67.28	1.39	SF(Med)
10800.00	10931.15	90.00	266.98	7060.00	98.47	33.27	243.88	238.52	62.48	1.35	SF(Med)
10900.00	11031.15	90.00	266.98	7060.00	101.15	33.99	243.89	238.61	57.68	1.32	SF(Med)
11000.00	11131.15	90.00	266.98	7060.00	103.84	34.71	243.90	238.70	52.88	1.28	SF(Med)
11100.00	11231.15	90.00	266.98	7060.00	106.53	35.42	243.91	238.80	48.09	1.25	SF(Med)
11200.00	11331.15	90.00	266.98	7060.00	109.22	36.14	243.93	238.89	43.30	1.22	SF(Med)
11300.00	11431.15	90.00	266.98	7060.00	111.92	36.86	243.94	238.98	38.52	1.19	SF(Med)
11400.00	11531.15	90.00	266.98	7060.00	114.63	37.58	243.95	239.07	33.77	1.16	SF(Med)
11500.00	11631.15	90.00	266.98	7060.00	117.34	38.30	243.96	239.16	28.89	1.14	SF(Med)
11600.00	11731.15	90.00	266.98	7060.00	120.05	39.02	243.97	239.26	24.00	1.11	SF(Med)
11700.00	11831.15	90.00	266.98	7060.00	122.77	39.74	243.98	239.35	19.14	1.09	SF(Med)
11800.00	11931.15	90.00	266.98	7060.00	125.49	40.46	243.99	239.44	14.27	1.06	SF(Med)
11900.00	12031.15	90.00	266.98	7060.00	128.22	41.18	244.00	239.53	9.26	1.04	SF(Med)
12000.00	12131.15	90.00	266.98	7060.00	130.95	41.90	244.01	239.63	4.26	1.02	SF(Med)
12100.00	12231.15	90.00	266.98	7060.00	133.68	42.62	244.02	239.72	-0.72	1.00	SF(Hi)
12200.00	12331.15	90.00	266.98	7060.00	136.41	43.34	244.03	239.81	-5.70	0.98	SF(Hi)
12300.00	12431.15	90.00	266.98	7060.00	139.15	44.07	244.04	239.90	-10.66	0.96	SF(Hi)
12400.00	12531.15	90.00	266.98	7060.00	141.89	44.79	244.05	240.00	-15.61	0.94	SF(Hi)
12500.00	12631.15	90.00	266.98	7060.00	144.63	45.51	244.07	240.09	-20.56	0.92	SF(Hi)
12600.00	12731.15	90.00	266.98	7060.00	147.38	46.23	244.08	240.18	-25.51	0.90	SF(Hi)
12700.00	12831.15	90.00	266.98	7060.00	150.12	46.96	244.09	240.27	-30.45	0.89	SF(Hi)
12800.00	12931.15	90.00	266.98	7060.00	152.87	47.68	244.10	240.36	-35.40	0.87	SF(Hi)
12900.00	13031.15	90.00	266.98	7060.00	155.62	48.40	244.11	240.46	-40.35	0.86	SF(Hi)
13000.00	13131.15	90.00	266.98	7060.00	158.37	49.13	244.12	240.55	-45.29	0.84	SF(Hi)
13100.00	13231.15	90.00	266.98	7060.00	161.12	49.85	244.13	240.64	-50.24	0.83	SF(Hi)
13200.00	13331.15	90.00	266.98	7060.00	163.88	50.58	244.14	240.73	-55.19	0.81	SF(Hi)
13300.00	13431.15	90.00	266.98	7060.00	166.63	51.30	244.15	240.83	-60.14	0.80	SF(Hi)
13400.00	13531.15	90.00	266.98	7060.00	169.39	52.03	244.16	240.92	-65.09	0.79	SF(Hi)
13500.00	13631.15	90.00	266.98	7060.00	172.15	52.75	244.17	241.01	-70.05	0.77	SF(Hi)
13600.00	13731.15	90.00	266.98	7060.00	174.91	53.48	244.18	241.10	-75.01	0.76	SF(Hi)
13700.00	13831.15	90.00	266.98	7060.00	177.67	54.20	244.19	241.20	-79.97	0.75	SF(Hi)
13800.00	13931.15	90.00	266.98	7060.00	180.44	54.93	244.20	241.29	-84.93	0.74	SF(Hi)
13900.00	14031.15	90.00	266.98	7060.00	183.20	55.65	244.21	241.38	-89.89	0.73	SF(Hi)
14000.00	14131.15	90.00	266.98	7060.00	185.96	56.38	244.23	241.47	-94.86	0.72	SF(Hi)
14100.00	14231.15	90.00	266.98	7060.00	188.73	57.10	244.24	241.57	-99.83	0.71	SF(Hi)
14200.00	14331.15	90.00	266.98	7060.00	191.50	57.83	244.25	241.66	-104.80	0.70	SF(Hi)
14300.00	14431.15	90.00	266.98	7060.00	194.26	58.56	244.26	241.75	-109.77	0.69	SF(Hi)
14400.00	14531.15	90.00	266.98	7060.00	197.03	59.28	244.27	241.84	-114.74	0.68	SF(Hi)
14500.00	14631.15	90.00	266.98	7060.00	199.80	60.01	244.28	241.94	-119.72	0.67	SF(Hi)
14600.00	14731.15	90.00	266.98	7060.00	202.57	60.74	244.29	242.03	-124.69	0.66	SF(Hi)
14700.00	14831.15	90.00	266.98	7060.00	205.34	61.46	244.30	242.12	-129.67	0.65	SF(Hi)
14800.00	14931.15	90.00	266.98	7060.00	208.12	62.19	244.31	242.21	-134.65	0.64	SF(Hi)
14900.00	15031.15	90.00	266.98	7060.00	210.89	62.92	244.32	242.31	-139.64	0.63	SF(Hi)
15000.00	15131.15	90.00	266.98	7060.00	213.66	63.65	244.33	242.40	-144.62	0.63	SF(Hi)
15100.00	15231.15	90.00	266.98	7060.00	216.44	64.37	244.34	242.49	-149.61	0.62	SF(Hi)
15200.00	15331.15	90.00	266.98	7060.00	219.21	65.10	244.35	242.58	-154.60	0.61	SF(Hi)
15300.00	15431.15	90.00	266.98	7060.00	221.99	65.83	244.36	242.68	-159.58	0.60	SF(Hi)
15400.00	15531.15	90.00	266.98	7060.00	224.76	66.56	244.37	242.77	-164.58	0.60	SF(Hi)
15500.00	15631.15	90.00	266.98	7060.00	227.54	67.28	244.38	242.86	-169.57	0.59	SF(Hi)
15600.00	15731.15	90.00	266.98	7060.00	230.32	68.01	244.39	242.95	-174.56	0.58	SF(Hi)
15628.56	15759.71	90.00	266.98	7060.00	231.11	68.22	244.40	242.98	-175.99	0.58	SF(Hi)