

**5D Plan Report**

Synergy Resources

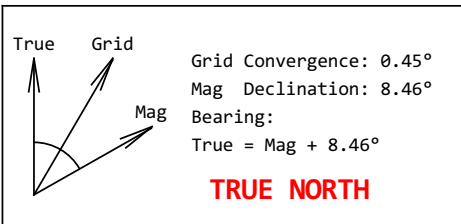
Field Name: *CO N - NAD 83*
Site Name: *Goetzel 25-29 Pad*
Well Name: *Goetzel 32C-30-M*
Plan: *P1:V1*

5 December 2016





Goetzel 32C-30-M
Weld County, CO
Precision 562



Plan Data for Goetzel 32C-30-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		
1800.00	0.00	0.00	1800.00	-0.00	-0.00	0.00	0.00	0.0		
2659.32	17.19	78.45	2646.49	25.61	125.33	-125.69	2.00	78.5		
6396.47	17.19	78.45	6216.78	246.66	1207.23	-1210.70	0.00	0.0		
7733.64	90.00	267.34	7141.00	259.02	520.92	-524.65	8.00	189.3		
15644.54	90.00	267.34	7141.00	-107.82	-7381.47	7382.26	0.00	0.0		

Target Set Information:

Name: Goetzel 32C-30-M

Position offsets from Slot centre

Name	TVD	+N/-S	+E/-W	Northing	Easting	Lat	Long
	(USft)	(USft)	(USft)	(USft)	(USft)	(°)	(°)
LP 32C-30-M	7141.00	259.02	520.92	1410746.15	3194156.70	40.458803	-104.802262
PBHL 32C-30-M	7141.00	-107.82	-7381.47	1410317.30	3186257.44	40.457793	-104.830660



Drawing By: GWR Date: 12/05/2016
Weatherford Drilling Services
7725 W. Reno, Ste. #220
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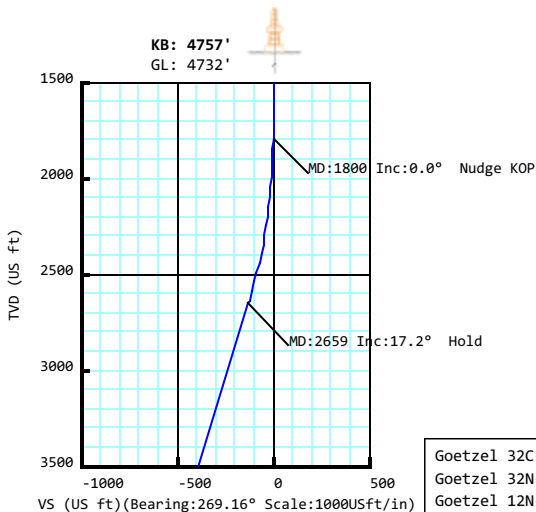
Plan Data for Goetzel 32C-30-M

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

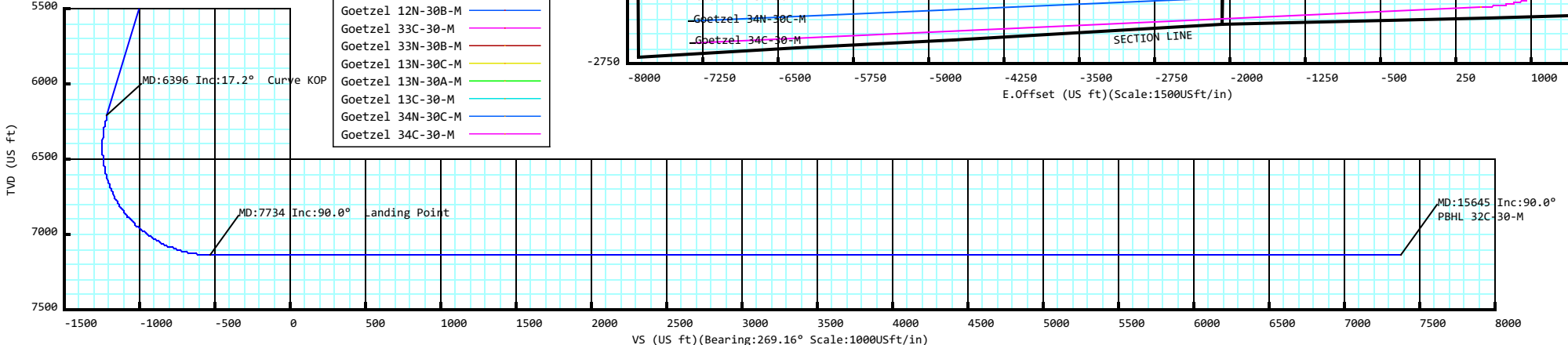
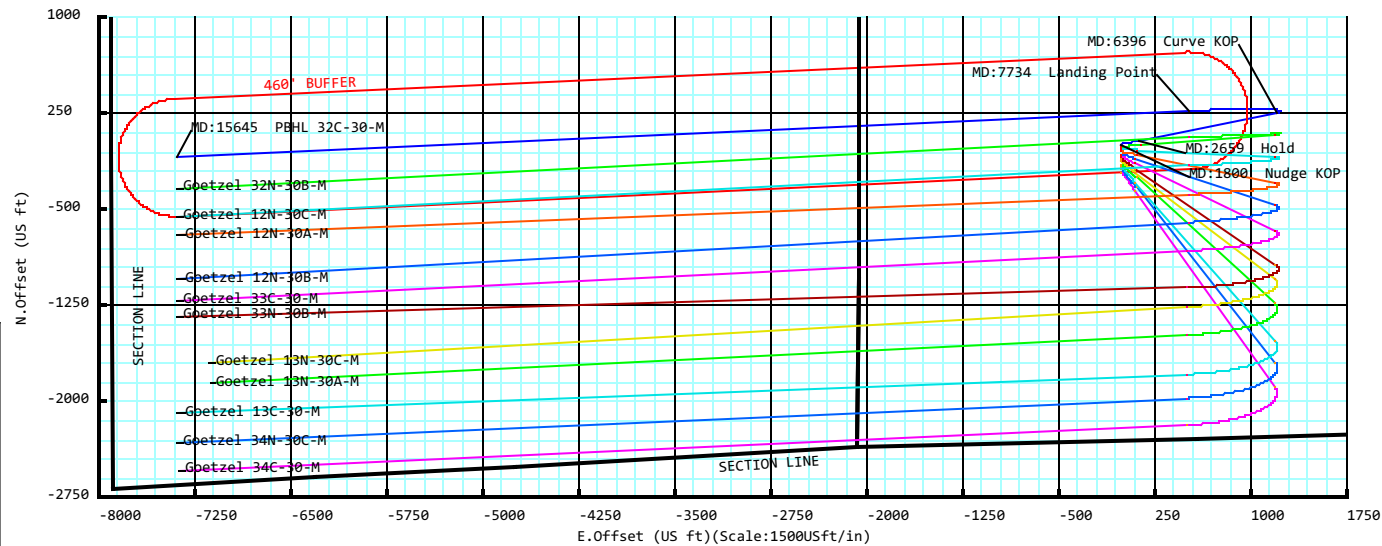
Site: Goetzel 25-29 Pad
Unit: USFeet
TVD Reference:
Company Name: Synergy Resources
Position:
Northing: 1410483.05USft
Latitude: 40.458092°
Easting: 3193637.83USft
Longitude: -104.804134°
North Reference: True
Grid Convergence: 0.45°
Elevation Above VRD: 4732.00USft

Slot: Goetzel 32C-30-M
Position:
Offset is from Site centre
Northing: 1410483.05USft
Latitude: 40.458092°
+N/-S: 0.00USft
Easting: 3193637.83USft
Longitude: -104.804134°
+E/-W: 0.00USft
Elevation Above VRD: 4732.00USft

Well: Goetzel 32C-30-M
Type: Main-Well
File Number:
Plan Folder: P1
Plan: P1:V1
Vertical Section: Position offset of origin from Slot centre:
+N/-S: 0.00USft
Azimuth: 269.16°
+E/-W: 0.00USft
Magnetic Parameters:
Model: Field Strength: Declination: Dip: Date:
bggm2016 52524(nT) 8.46° 66.93° 2016-11-18



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	



Goetzel 32C-30-M

Field Name: CO N - NAD 83	Map Units: US ft		Company Name: Synergy Resources	
	Vertical Reference Datum (VRD): Mean Sea Level			
	Projected Coordinate System: NAD83 / Colorado North (ftUS)			
	Comment:			
Site: Goetzel 25-29 Pad	Units: US ft	North Reference: True		Convergence Angle: 0.45
	Position:	Northing: 1410483.05 US ft		Latitude: 40.458092000
		Easting: 3193637.83 US ft		Longitude: -104.804134000
	Elevation above MSL:4732.00 US ft			
Comment:				
Slot: Goetzel 32C-30-M	Position (Relative to Site Centre)			
	+N/-S: 0.00 US ft	Northing: 1410483.05 US ft		Latitude: 40.458092000
	+E/-W: 0.00 US ft	Easting: 3193637.83 US ft		Longitude: -104.804134000
	Slot TVD Reference: Ground Elevation			
	Elevation above MSL: 4732.00 US ft			
Comment:				
Well: Goetzel 32C-30-M	Type:Main well		UWI:	Plan:P1:V1
	File Number:	Comment:		
	Closure Distance:7382.26US ft		Closure Azimuth:269.16°	
	Vertical Section: Position of Origin (Relative to Slot centre)			
	+N/-S: 0.00 US ft		+E/-W: 0.00 US ft	Az: 269.16°
	Magnetic Parameters:			
	Model: bggm2016	Field Strength: 52524.8nT	Declination: 8.46°	Dip: 66.93°

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 32C-30-M Comment:

Target Name:	Shape:	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northings (USFt)	Easting (USFt)	Comment
LP 32C-30-M	Point	7141.00	259.02	520.92	1410746.15	3194156.70	
PBHL 32C-30-M	Point	7141.00	-107.82	-7381.47	1410317.30	3186257.44	

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	
1800.00	0.00	0.00	1800.00	0.00	-0.00	-0.00	0.00	0.00	0.00	Nudge KOP
2659.32	17.19	78.45	2646.49	-125.69	25.61	125.33	2.00	0.00	2.00	Hold
6396.47	17.19	78.45	6216.78	-1210.70	246.66	1207.23	0.00	0.00	0.00	Curve KOP
7733.64	90.00	267.34	7141.00	-524.65	259.02	520.92	5.45	-12.80	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
15644.54	90.00	267.34	7141.00	7382.26	-107.82	-7381.47	0.00	0.00	0.00	PBHL 32C-30-M
Interpolated Points: (Relative to Slot centre)(TVD relative to Drill Floor)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	B.Rate (°/100US ft)	T.Rate (°/100US ft)	DLS (°/100US ft)	Comment
0.00	0.00	0.00	0.00	0.00	-0.00	-0.00	0.00	0.00	0.00	
100.00	0.00	0.00	100.00	0.00	-0.00	-0.00	0.00	0.00	0.00	
200.00	0.00	0.00	200.00	0.00	-0.00	-0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	-0.00	-0.00	0.00	0.00	0.00	
400.00	0.00	0.00	400.00	0.00	-0.00	-0.00	0.00	0.00	0.00	
500.00	0.00	0.00	500.00	0.00	-0.00	-0.00	0.00	0.00	0.00	
600.00	0.00	0.00	600.00	0.00	-0.00	-0.00	0.00	0.00	0.00	
700.00	0.00	0.00	700.00	0.00	-0.00	-0.00	0.00	0.00	0.00	
800.00	0.00	0.00	800.00	0.00	-0.00	-0.00	0.00	0.00	0.00	
900.00	0.00	0.00	900.00	0.00	-0.00	-0.00	0.00	0.00	0.00	
1000.00	0.00	0.00	1000.00	0.00	-0.00	-0.00	0.00	0.00	0.00	
1100.00	0.00	0.00	1100.00	0.00	-0.00	-0.00	0.00	0.00	0.00	
1200.00	0.00	0.00	1200.00	0.00	-0.00	-0.00	0.00	0.00	0.00	
1300.00	0.00	0.00	1300.00	0.00	-0.00	-0.00	0.00	0.00	0.00	
1400.00	0.00	0.00	1400.00	0.00	-0.00	-0.00	0.00	0.00	0.00	
1500.00	0.00	0.00	1500.00	0.00	-0.00	-0.00	0.00	0.00	0.00	
1600.00	0.00	0.00	1600.00	0.00	-0.00	-0.00	0.00	0.00	0.00	
1700.00	0.00	0.00	1700.00	0.00	-0.00	-0.00	0.00	0.00	0.00	
1800.00	0.00	0.00	1800.00	0.00	-0.00	-0.00	0.00	0.00	0.00	Nudge KOP
1900.00	2.00	78.45	1899.98	-1.71	0.35	1.71	2.00	0.00	2.00	
2000.00	4.00	78.45	1999.84	-6.86	1.40	6.84	2.00	-0.00	2.00	
2100.00	6.00	78.45	2099.45	-15.42	3.14	15.38	2.00	0.00	2.00	
2200.00	8.00	78.45	2198.70	-27.39	5.58	27.32	2.00	0.00	2.00	
2300.00	10.00	78.45	2297.47	-42.76	8.71	42.64	2.00	0.00	2.00	
2400.00	12.00	78.45	2395.62	-61.51	12.53	61.34	2.00	-0.00	2.00	
2500.00	14.00	78.45	2493.06	-83.61	17.04	83.37	2.00	0.00	2.00	
2600.00	16.00	78.45	2589.64	-109.04	22.22	108.73	2.00	-0.00	2.00	
2659.32	17.19	78.45	2646.49	-125.69	25.61	125.33	2.00	0.00	2.00	Hold
2700.00	17.19	78.45	2685.36	-137.50	28.01	137.10	0.00	0.00	0.00	
2800.00	17.19	78.45	2780.89	-166.53	33.93	166.05	0.00	0.00	0.00	
2900.00	17.19	78.45	2876.42	-195.57	39.84	195.00	0.00	0.00	0.00	
3000.00	17.19	78.45	2971.96	-224.60	45.76	223.95	0.00	0.00	0.00	
3100.00	17.19	78.45	3067.49	-253.63	51.67	252.90	0.00	0.00	0.00	
3200.00	17.19	78.45	3163.03	-282.67	57.59	281.85	0.00	0.00	0.00	
3300.00	17.19	78.45	3258.56	-311.70	63.50	310.80	0.00	0.00	0.00	
3400.00	17.19	78.45	3354.10	-340.73	69.42	339.75	0.00	0.00	0.00	
3500.00	17.19	78.45	3449.63	-369.76	75.33	368.70	0.00	0.00	0.00	
3600.00	17.19	78.45	3545.17	-398.80	81.25	397.65	0.00	0.00	0.00	
3700.00	17.19	78.45	3640.70	-427.83	87.16	426.60	0.00	0.00	0.00	
3800.00	17.19	78.45	3736.24	-456.86	93.08	455.55	0.00	0.00	0.00	
3900.00	17.19	78.45	3831.77	-485.90	98.99	484.50	0.00	0.00	0.00	
4000.00	17.19	78.45	3927.31	-514.93	104.91	513.45	0.00	0.00	0.00	
4100.00	17.19	78.45	4022.84	-543.96	110.82	542.40	0.00	0.00	0.00	
4200.00	17.19	78.45	4118.38	-573.00	116.74	571.35	0.00	0.00	0.00	
4300.00	17.19	78.45	4213.91	-602.03	122.65	600.30	0.00	0.00	0.00	
4400.00	17.19	78.45	4309.45	-631.06	128.57	629.25	0.00	0.00	0.00	
4500.00	17.19	78.45	4404.98	-660.10	134.48	658.20	0.00	0.00	0.00	
4600.00	17.19	78.45	4500.52	-689.13	140.40	687.15	0.00	0.00	0.00	
4700.00	17.19	78.45	4596.05	-718.16	146.31	716.10	0.00	0.00	0.00	
4800.00	17.19	78.45	4691.59	-747.20	152.23	745.05	0.00	0.00	0.00	
4900.00	17.19	78.45	4787.12	-776.23	158.14	774.00	0.00	0.00	0.00	
5000.00	17.19	78.45	4882.66	-805.26	164.06	802.95	0.00	0.00	0.00	
5100.00	17.19	78.45	4978.19	-834.30	169.97	831.90	0.00	0.00	0.00	
5200.00	17.19	78.45	5073.73	-863.33	175.89	860.85	0.00	0.00	0.00	

5D Plan Report

Interpolated Points: (Relative to Slot centre)(TVD relative to Drill Floor)										Comment
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	B.Rate (°/100US ft)	T.Rate (°/100US ft)	DLS (°/100US ft)	
5300.00	17.19	78.45	5169.26	-892.36	181.80	889.80	0.00	0.00	0.00	
5400.00	17.19	78.45	5264.80	-921.40	187.72	918.75	0.00	0.00	0.00	
5500.00	17.19	78.45	5360.33	-950.43	193.63	947.70	0.00	0.00	0.00	
5600.00	17.19	78.45	5455.87	-979.46	199.55	976.65	0.00	0.00	0.00	
5700.00	17.19	78.45	5551.40	-1008.50	205.47	1005.60	0.00	0.00	0.00	
5800.00	17.19	78.45	5646.94	-1037.53	211.38	1034.55	0.00	0.00	0.00	
5900.00	17.19	78.45	5742.47	-1066.56	217.30	1063.50	0.00	0.00	0.00	
6000.00	17.19	78.45	5838.01	-1095.59	223.21	1092.45	0.00	0.00	0.00	
6100.00	17.19	78.45	5933.54	-1124.63	229.13	1121.40	0.00	0.00	0.00	
6200.00	17.19	78.45	6029.08	-1153.66	235.04	1150.35	0.00	0.00	0.00	
6300.00	17.19	78.45	6124.61	-1182.69	240.96	1179.30	0.00	0.00	0.00	
6396.47	17.19	78.45	6216.78	-1210.70	246.66	1207.23	0.00	0.00	0.00	Curve KOP
6400.00	16.91	78.30	6220.15	-1211.72	246.87	1208.24	-7.89	-4.44	8.00	
6500.00	9.11	70.00	6317.52	-1233.51	252.54	1229.96	-7.80	-8.30	8.00	
6600.00	2.82	11.53	6416.99	-1241.53	257.67	1237.90	-6.29	-58.47	8.00	
6700.00	7.80	287.76	6516.62	-1235.61	262.15	1231.92	4.98	-83.77	8.00	
6800.00	15.55	277.24	6614.49	-1215.88	265.92	1212.13	7.74	-10.52	8.00	
6900.00	23.46	273.67	6708.68	-1182.72	268.88	1178.92	7.91	-3.57	8.00	
7000.00	31.42	271.83	6797.36	-1136.77	270.99	1132.93	7.96	-1.83	8.00	
7100.00	39.39	270.68	6878.81	-1078.92	272.20	1075.06	7.97	-1.15	8.00	
7200.00	47.37	269.86	6951.43	-1010.31	272.49	1006.43	7.98	-0.82	8.00	
7300.00	55.35	269.23	7013.83	-932.26	271.85	928.39	7.98	-0.63	8.00	
7400.00	63.34	268.72	7064.77	-846.31	270.30	842.45	7.99	-0.52	8.00	
7500.00	71.33	268.27	7103.27	-754.11	267.87	750.28	7.99	-0.45	8.00	
7600.00	79.32	267.86	7128.58	-657.47	264.59	653.67	7.99	-0.41	8.00	
7700.00	87.31	267.47	7140.21	-558.26	260.55	554.52	7.99	-0.39	8.00	
7733.64	90.00	267.34	7141.00	-524.65	259.02	520.92	7.99	-0.38	8.00	Landing Point
7800.00	90.00	267.34	7141.00	-458.32	255.95	454.63	0.00	0.00	0.00	
7900.00	90.00	267.34	7141.00	-358.37	251.31	354.74	0.00	0.00	0.00	
8000.00	90.00	267.34	7141.00	-258.43	246.67	254.85	0.00	0.00	0.00	
8100.00	90.00	267.34	7141.00	-158.48	242.04	154.96	0.00	0.00	0.00	
8200.00	90.00	267.34	7141.00	-58.53	237.40	55.06	0.00	0.00	0.00	
8300.00	90.00	267.34	7141.00	41.42	232.76	-44.83	0.00	0.00	0.00	
8400.00	90.00	267.34	7141.00	141.37	228.12	-144.72	0.00	0.00	0.00	
8500.00	90.00	267.34	7141.00	241.32	223.49	-244.61	0.00	0.00	0.00	
8600.00	90.00	267.34	7141.00	341.27	218.85	-344.50	0.00	0.00	0.00	
8700.00	90.00	267.34	7141.00	441.22	214.21	-444.40	0.00	0.00	0.00	
8800.00	90.00	267.34	7141.00	541.17	209.57	-544.29	0.00	0.00	0.00	
8900.00	90.00	267.34	7141.00	641.12	204.94	-644.18	0.00	0.00	0.00	
9000.00	90.00	267.34	7141.00	741.07	200.30	-744.07	0.00	0.00	0.00	
9100.00	90.00	267.34	7141.00	841.02	195.66	-843.97	0.00	0.00	0.00	
9200.00	90.00	267.34	7141.00	940.97	191.03	-943.86	0.00	0.00	0.00	
9300.00	90.00	267.34	7141.00	1040.92	186.39	-1043.75	0.00	0.00	0.00	
9400.00	90.00	267.34	7141.00	1140.87	181.75	-1143.64	0.00	0.00	0.00	
9500.00	90.00	267.34	7141.00	1240.82	177.11	-1243.54	0.00	0.00	0.00	
9600.00	90.00	267.34	7141.00	1340.77	172.48	-1343.43	0.00	0.00	0.00	
9700.00	90.00	267.34	7141.00	1440.72	167.84	-1443.32	0.00	0.00	0.00	
9800.00	90.00	267.34	7141.00	1540.67	163.20	-1543.21	0.00	0.00	0.00	
9900.00	90.00	267.34	7141.00	1640.62	158.57	-1643.11	0.00	0.00	0.00	
10000.00	90.00	267.34	7141.00	1740.56	153.93	-1743.00	0.00	0.00	0.00	
10100.00	90.00	267.34	7141.00	1840.51	149.29	-1842.89	0.00	0.00	0.00	
10200.00	90.00	267.34	7141.00	1940.46	144.65	-1942.78	0.00	0.00	0.00	
10300.00	90.00	267.34	7141.00	2040.41	140.02	-2042.68	0.00	0.00	0.00	
10400.00	90.00	267.34	7141.00	2140.36	135.38	-2142.57	0.00	0.00	0.00	
10500.00	90.00	267.34	7141.00	2240.31	130.74	-2242.46	0.00	0.00	0.00	
10600.00	90.00	267.34	7141.00	2340.26	126.10	-2342.35	0.00	0.00	0.00	
10700.00	90.00	267.34	7141.00	2440.21	121.47	-2442.25	0.00	0.00	0.00	
10800.00	90.00	267.34	7141.00	2540.16	116.83	-2542.14	0.00	0.00	0.00	
10900.00	90.00	267.34	7141.00	2640.11	112.19	-2642.03	0.00	0.00	0.00	

5D Plan Report

Interpolated Points: (Relative to Slot centre)(TVD relative to Drill Floor)										Comment
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	B.Rate (°/100US ft)	T.Rate (°/100US ft)	DLS (°/100US ft)	
11000.00	90.00	267.34	7141.00	2740.06	107.56	-2741.92	0.00	0.00	0.00	
11100.00	90.00	267.34	7141.00	2840.01	102.92	-2841.82	0.00	0.00	0.00	
11200.00	90.00	267.34	7141.00	2939.96	98.28	-2941.71	0.00	0.00	0.00	
11300.00	90.00	267.34	7141.00	3039.91	93.64	-3041.60	0.00	0.00	0.00	
11400.00	90.00	267.34	7141.00	3139.86	89.01	-3141.49	0.00	0.00	0.00	
11500.00	90.00	267.34	7141.00	3239.81	84.37	-3241.39	0.00	0.00	0.00	
11600.00	90.00	267.34	7141.00	3339.76	79.73	-3341.28	0.00	0.00	0.00	
11700.00	90.00	267.34	7141.00	3439.71	75.10	-3441.17	0.00	0.00	0.00	
11800.00	90.00	267.34	7141.00	3539.66	70.46	-3541.06	0.00	0.00	0.00	
11900.00	90.00	267.34	7141.00	3639.61	65.82	-3640.95	0.00	0.00	0.00	
12000.00	90.00	267.34	7141.00	3739.55	61.18	-3740.85	0.00	0.00	0.00	
12100.00	90.00	267.34	7141.00	3839.50	56.55	-3840.74	0.00	0.00	0.00	
12200.00	90.00	267.34	7141.00	3939.45	51.91	-3940.63	0.00	0.00	0.00	
12300.00	90.00	267.34	7141.00	4039.40	47.27	-4040.52	0.00	0.00	0.00	
12400.00	90.00	267.34	7141.00	4139.35	42.63	-4140.42	0.00	0.00	0.00	
12500.00	90.00	267.34	7141.00	4239.30	38.00	-4240.31	0.00	0.00	0.00	
12600.00	90.00	267.34	7141.00	4339.25	33.36	-4340.20	0.00	0.00	0.00	
12700.00	90.00	267.34	7141.00	4439.20	28.72	-4440.09	0.00	0.00	0.00	
12800.00	90.00	267.34	7141.00	4539.15	24.09	-4539.99	0.00	0.00	0.00	
12900.00	90.00	267.34	7141.00	4639.10	19.45	-4639.88	0.00	0.00	0.00	
13000.00	90.00	267.34	7141.00	4739.05	14.81	-4739.77	0.00	0.00	0.00	
13100.00	90.00	267.34	7141.00	4839.00	10.17	-4839.66	0.00	0.00	0.00	
13200.00	90.00	267.34	7141.00	4938.95	5.54	-4939.56	0.00	0.00	0.00	
13300.00	90.00	267.34	7141.00	5038.90	0.90	-5039.45	0.00	0.00	0.00	
13400.00	90.00	267.34	7141.00	5138.85	-3.74	-5139.34	0.00	0.00	0.00	
13500.00	90.00	267.34	7141.00	5238.80	-8.38	-5239.23	0.00	0.00	0.00	
13600.00	90.00	267.34	7141.00	5338.75	-13.01	-5339.13	0.00	0.00	0.00	
13700.00	90.00	267.34	7141.00	5438.70	-17.65	-5439.02	0.00	0.00	0.00	
13800.00	90.00	267.34	7141.00	5538.65	-22.29	-5538.91	0.00	0.00	0.00	
13900.00	90.00	267.34	7141.00	5638.60	-26.92	-5638.80	0.00	0.00	0.00	
14000.00	90.00	267.34	7141.00	5738.54	-31.56	-5738.70	0.00	0.00	0.00	
14100.00	90.00	267.34	7141.00	5838.49	-36.20	-5838.59	0.00	0.00	0.00	
14200.00	90.00	267.34	7141.00	5938.44	-40.84	-5938.48	0.00	0.00	0.00	
14300.00	90.00	267.34	7141.00	6038.39	-45.47	-6038.37	0.00	0.00	0.00	
14400.00	90.00	267.34	7141.00	6138.34	-50.11	-6138.27	0.00	0.00	0.00	
14500.00	90.00	267.34	7141.00	6238.29	-54.75	-6238.16	0.00	0.00	0.00	
14600.00	90.00	267.34	7141.00	6338.24	-59.38	-6338.05	0.00	0.00	0.00	
14700.00	90.00	267.34	7141.00	6438.19	-64.02	-6437.94	0.00	0.00	0.00	
14800.00	90.00	267.34	7141.00	6538.14	-68.66	-6537.84	0.00	0.00	0.00	
14900.00	90.00	267.34	7141.00	6638.09	-73.30	-6637.73	0.00	0.00	0.00	
15000.00	90.00	267.34	7141.00	6738.04	-77.93	-6737.62	0.00	0.00	0.00	
15100.00	90.00	267.34	7141.00	6837.99	-82.57	-6837.51	0.00	0.00	0.00	
15200.00	90.00	267.34	7141.00	6937.94	-87.21	-6937.40	0.00	0.00	0.00	
15300.00	90.00	267.34	7141.00	7037.89	-91.85	-7037.30	0.00	0.00	0.00	
15400.00	90.00	267.34	7141.00	7137.84	-96.48	-7137.19	0.00	0.00	0.00	
15500.00	90.00	267.34	7141.00	7237.79	-101.12	-7237.08	0.00	0.00	0.00	
15600.00	90.00	267.34	7141.00	7337.74	-105.76	-7336.97	0.00	0.00	0.00	
15644.54	90.00	267.34	7141.00	7382.26	-107.82	-7381.47	0.00	0.00	0.00	PBHL 32C-30-M



Synergy Resources

Field Name: *CO N - NAD 83*
Site Name: *Goetzel 25-29 Pad*
Well Name: *Goetzel 32C-30-M*

5 December 2016

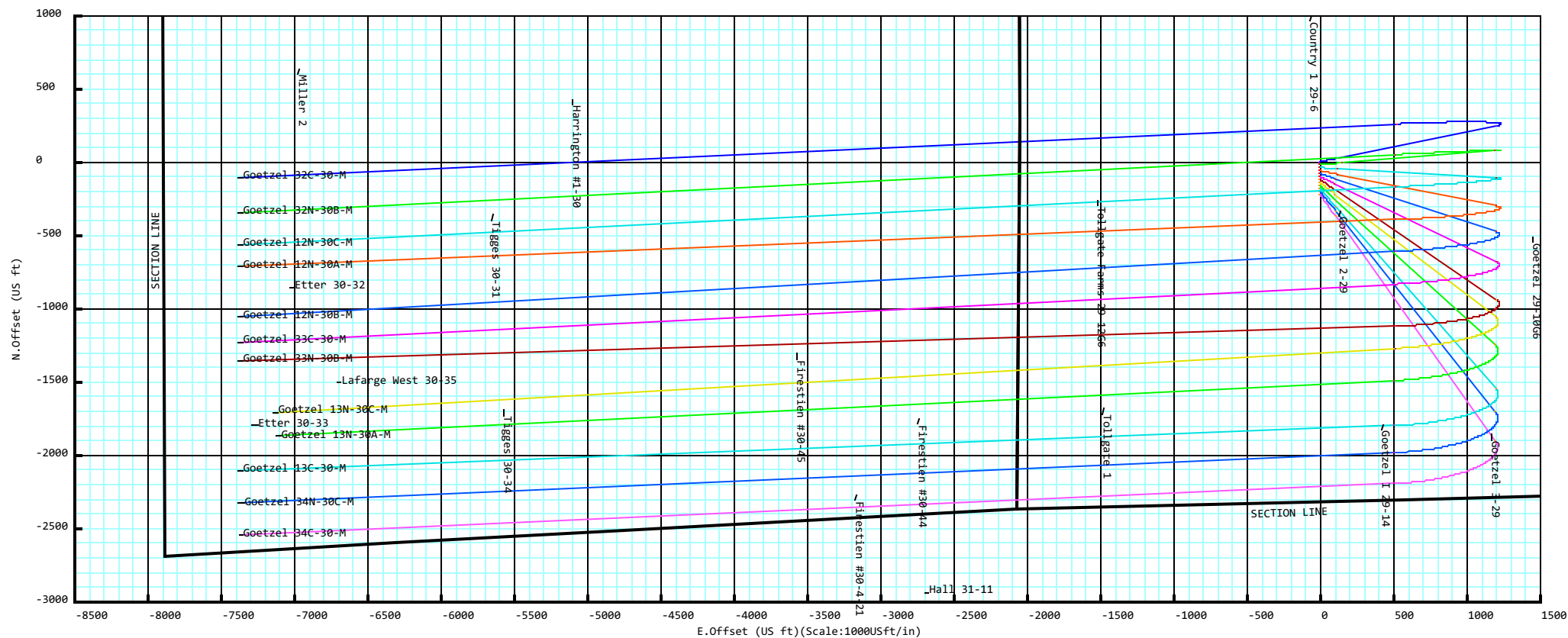




Goetzel Pad
Weld County, CO
Precision 562

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

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



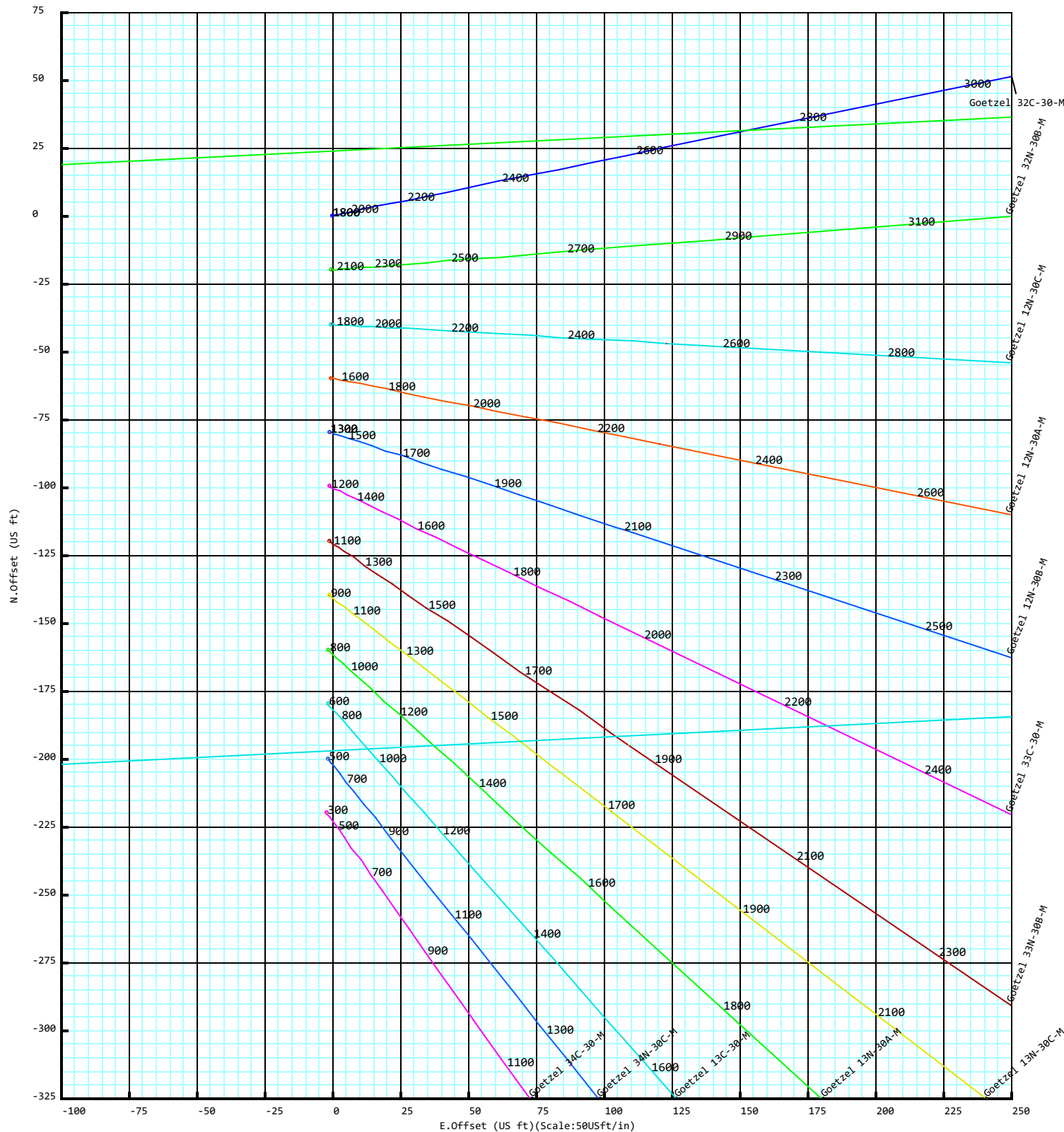


Goetzl Pad Weld County, CO Precision 562

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



Drawing By: GWR Date: 12/05/2016
Weatherford Drilling Services
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Oklahoma City, OK 73127
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+1.405.773.1887 Fax



Goetzel 32C-30-M

Field Name: CO N - NAD 83	Map Units: US ft		Company Name: Synergy Resources	
	Vertical Reference Datum (VRD): Mean Sea Level			
	Projected Coordinate System: NAD83 / Colorado North (ftUS)			
	Comment:			
Site: Goetzel 25-29 Pad	Units: US ft	North Reference: True		Convergence Angle: 0.45
	Position:	Northing: 1410483.05 US ft		Latitude: 40.458092000
		Easting: 3193637.83 US ft		Longitude: -104.804134000
	Elevation above MSL:4732.00 US ft			
Comment:				
Slot: Goetzel 32C-30-M	Position (Relative to Site Centre)			
	+N/-S: 0.00 US ft	Northing: 1410483.05 US ft		Latitude: 40.458092000
	+E/-W: 0.00 US ft	Easting: 3193637.83 US ft		Longitude: -104.804134000
	Slot TVD Reference: Ground Elevation			
	Elevation above MSL: 4732.00 US ft			
	Comment:			
Well: Goetzel 32C-30-M	Type:Main well		UWI:	Plan:Working Plan
	File Number:	Comment:		
	Closure Distance:7382.26US ft		Closure Azimuth:269.16°	
	Vertical Section: Position of Origin (Relative to Slot centre)			
	+N/-S: -0.00 US ft		+E/-W: -0.00 US ft	Az: 0.00°
	Magnetic Parameters:			
	Model: bggm2016	Field Strength: 52524.8nT	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 32C-30-M (p)	0.00	15644.54	100.00	2

Secondary Well Names:

Goetzel 2-29 (s)
 Miller 2 (s)
 Tollgate Farms 29-12G6 (s)
 Tigges 30-31 (s)
 Etter 30-32 (s)
 Firestien #30-45 (s)
 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)
 Goetzel 13N-30A-M (p)
 Goetzel 13C-30-M (p)
 Goetzel 34N-30C-M (p)
 Goetzel 34C-30-M (p)

5D Anti-Collision Report

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 32N-30B-M (p)	15644.54	15462.78	7141.00	297.53	-80.63	0.79	SF(Hi)
Tigges 30-31 (s)	13919.34	7124.00	7141.00	336.49	-62.22	0.84	SF(Hi)
Goetzel 12N-30C-M (p)	15644.54	15479.50	7141.00	477.76	31.52	1.07	SF(Med)
Tollgate Farms 29-12G6 (s)	9793.55	7114.00	7141.00	426.15	139.90	1.49	SF(Med)
Goetzel 12N-30A-M (p)	15644.54	15299.22	7141.00	680.10	263.10	1.63	SF(Lo)
Miller 2 (s)	15219.14	7126.00	7141.00	723.35	288.42	1.66	SF(Lo)
Etter 30-32 (s)	15330.66	7124.00	7141.00	768.49	330.86	1.76	SF(Lo)
Goetzel 12N-30B-M (p)	15644.54	15389.32	7141.00	972.21	518.50	2.14	SF(Lo)
Goetzel 2-29 (s)	8186.72	7113.00	7141.00	582.36	333.11	2.34	SF(Lo)
Goetzel 33C-30-M (p)	15644.54	15547.41	7141.00	1122.02	659.02	2.42	SF(Lo)
Goetzel 33N-30B-M (p)	15644.54	15422.73	7141.00	1267.60	810.40	2.77	
Goetzel 13N-30C-M (p)	15569.92	15286.68	7141.00	1623.75	1170.58	3.58	
Firestien #30-45 (s)	12016.41	7116.00	7141.00	1385.19	1039.65	4.01	
Goetzel 13N-30A-M (p)	15587.11	15136.85	7141.00	1813.02	1365.36	4.05	
Goetzel 13C-30-M (p)	15644.54	15628.32	7141.00	1999.71	1537.28	4.32	
Goetzel 34N-30C-M (p)	15644.54	15536.66	7141.00	2229.58	1768.91	4.84	
Goetzel 34C-30-M (p)	15644.54	15665.53	7141.00	2442.18	1980.72	5.29	

CC

Secondary Well Name	Pri MD (US ft)	Sec MD (US ft)	TVD (US ft)	CC (US ft)	ES (US ft)	SF	Risk
Goetzel 32N-30B-M (p)	50.00	50.00	50.00	20.04	19.19	23.75	CC (Med)
Goetzel 12N-30C-M (p)	50.00	50.00	50.00	40.07	39.23	47.50	CC (Lo)
Goetzel 12N-30A-M (p)	0.00	0.00	0.00	59.75	59.01	81.48	CC (Lo)
Goetzel 12N-30B-M (p)	0.00	0.00	0.00	79.79	79.05	108.80	
Goetzel 33C-30-M (p)	50.00	50.00	50.00	99.82	98.98	118.32	
Goetzel 33N-30B-M (p)	0.00	0.00	0.00	119.86	119.13	163.45	
Goetzel 13N-30C-M (p)	50.00	50.00	50.00	139.90	139.05	165.83	
Goetzel 13N-30A-M (p)	0.00	0.00	0.00	159.93	159.20	218.10	
Goetzel 13C-30-M (p)	50.00	50.00	50.00	179.97	179.13	213.33	
Goetzel 34N-30C-M (p)	0.00	0.00	0.00	200.01	199.28	272.75	
Goetzel 34C-30-M (p)	50.00	50.00	50.00	220.05	219.20	260.83	
Tigges 30-31 (s)	13921.09	7124.00	7141.00	336.48	-62.21	0.84	SF(Hi)
Goetzel 2-29 (s)	2417.58	2384.81	2412.81	360.83	285.02	4.76	
Tollgate Farms 29-12G6 (s)	9794.73	7114.00	7141.00	426.15	139.90	1.49	SF(Med)
Miller 2 (s)	15191.21	7126.00	7141.00	722.81	288.85	1.67	SF(Lo)
Etter 30-32 (s)	15323.63	7124.00	7141.00	768.46	330.89	1.76	SF(Lo)
Firestien #30-45 (s)	11892.38	7116.00	7141.00	1379.62	1037.02	4.03	

5D Anti-Collision Report

Primary Well: Goetzel 32C-30-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Nearest Well	Risk
0.00	0.00	0.00	0.00	0.00	0.00	180.35	20.04	19.31	27.33	Goetzel 32N-30B-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 32N-30B-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 32N-30B-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 32N-30B-M (p)	CC (Med)
400.00	0.00	0.00	400.00	0.79	0.79	180.35	20.04	17.74	8.70	Goetzel 32N-30B-M (p)	CC (Med)
500.00	0.00	0.00	500.00	1.01	1.01	180.35	20.04	17.29	7.28	Goetzel 32N-30B-M (p)	CC (Med)
600.00	0.00	0.00	600.00	1.24	1.24	180.35	20.04	16.84	6.26	Goetzel 32N-30B-M (p)	CC (Med)
700.00	0.00	0.00	700.00	1.46	1.46	180.35	20.04	16.39	5.49	Goetzel 32N-30B-M (p)	CC (Med)
800.00	0.00	0.00	800.00	1.69	1.69	180.35	20.04	15.94	4.89	Goetzel 32N-30B-M (p)	CC (Med)
900.00	0.00	0.00	900.00	1.91	1.91	180.35	20.04	15.49	4.40	Goetzel 32N-30B-M (p)	CC (Med)
1000.00	0.00	0.00	1000.00	2.14	2.14	180.35	20.04	15.04	4.01	Goetzel 32N-30B-M (p)	CC (Med)
1100.00	0.00	0.00	1100.00	2.36	2.36	180.35	20.04	14.59	3.68	Goetzel 32N-30B-M (p)	CC (Med)
1200.00	0.00	0.00	1200.00	2.58	2.58	180.35	20.04	14.14	3.40	Goetzel 32N-30B-M (p)	CC (Med)
1300.00	0.00	0.00	1300.00	2.81	2.81	180.35	20.04	13.69	3.16	Goetzel 32N-30B-M (p)	CC (Med)
1400.00	0.00	0.00	1400.00	3.03	3.03	180.35	20.04	13.24	2.95	Goetzel 32N-30B-M (p)	CC (Med)
1500.00	0.00	0.00	1500.00	3.26	3.26	180.35	20.04	12.79	2.76	Goetzel 32N-30B-M (p)	CC (Med)
1600.00	0.00	0.00	1600.00	3.48	3.48	180.35	20.04	12.34	2.60	Goetzel 32N-30B-M (p)	CC (Med)
1700.00	0.00	0.00	1700.00	3.71	3.71	180.35	20.04	11.89	2.46	Goetzel 32N-30B-M (p)	SF(Lo); CC (Med)
1800.00	0.00	0.00	1800.00	3.93	3.93	180.35	20.04	11.44	2.33	Goetzel 32N-30B-M (p)	SF(Lo); CC (Med)
1900.00	2.00	78.00	1899.98	4.15	4.15	107.11	20.48	11.48	2.27	Goetzel 32N-30B-M (p)	SF(Lo); CC (Med)
2000.00	4.00	78.00	1999.84	4.36	4.34	119.85	22.58	13.13	2.39	Goetzel 32N-30B-M (p)	SF(Lo); CC (Med)
2100.00	6.00	78.00	2099.45	4.57	4.54	132.61	26.92	17.05	2.73	Goetzel 32N-30B-M (p)	CC (Med)
2200.00	8.00	78.00	2198.70	4.80	4.74	140.94	32.49	22.19	3.16	Goetzel 32N-30B-M (p)	CC (Med)
2300.00	10.00	78.00	2297.47	5.05	4.93	146.23	38.78	28.08	3.62	Goetzel 32N-30B-M (p)	CC (Lo)
2400.00	12.00	78.00	2395.62	5.34	5.13	149.53	45.52	34.42	4.10	Goetzel 32N-30B-M (p)	CC (Lo)
2500.00	14.00	78.00	2493.06	5.66	5.32	151.56	52.56	41.00	4.55		CC (Lo)

5D Anti-Collision Report

Primary Well: Goetzel 32C-30-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Nearest Well	Risk
2600.00	16.00	78.00	2589.64	6.02	5.52	96.79	363.59	282.00	4.46	Goetzel 32N-30B-M (p) Goetzel 2- 29 (s)	CC (Lo)
2600.00	16.00	78.00	2589.64	6.02	5.52	152.72	59.84	47.79	4.97	Goetzel 32N-30B-M (p)	
2700.00	17.19	78.00	2685.36	6.44	5.74	101.03	368.27	283.09	4.32	Goetzel 2- 29 (s)	
2700.00	17.19	78.00	2685.36	6.44	5.74	153.19	67.04	54.49	5.34	Goetzel 32N-30B-M (p)	
2800.00	17.19	78.00	2780.89	6.90	5.98	105.28	375.30	286.97	4.25	Goetzel 2- 29 (s)	
2800.00	17.19	78.00	2780.89	6.90	5.98	152.25	71.84	58.75	5.49	Goetzel 32N-30B-M (p)	
2900.00	17.19	78.00	2876.42	7.38	6.23	109.36	384.47	292.68	4.19	Goetzel 2- 29 (s)	
2900.00	17.19	78.00	2876.42	7.38	6.23	149.79	73.79	60.05	5.37	Goetzel 32N-30B-M (p)	
3000.00	17.19	78.00	2971.96	7.88	6.48	113.25	395.65	300.54	4.16	Goetzel 2- 29 (s)	
3000.00	17.19	78.00	2971.96	7.88	6.48	146.23	73.87	59.33	5.08	Goetzel 32N-30B-M (p)	
3100.00	17.19	78.00	3067.49	8.40	6.74	116.93	408.66	310.39	4.16	Goetzel 2- 29 (s)	
3100.00	17.19	78.00	3067.49	8.40	6.74	142.64	74.15	58.73	4.81	Goetzel 32N-30B-M (p)	
3200.00	17.19	78.00	3163.03	8.93	7.00	120.38	423.33	321.57	4.16	Goetzel 2- 29 (s)	
3200.00	17.19	78.00	3163.03	8.93	7.00	139.10	74.72	58.32	4.56	Goetzel 32N-30B-M (p)	
3300.00	17.19	78.00	3258.56	9.47	7.26	123.60	439.51	334.57	4.19	Goetzel 2- 29 (s)	
3300.00	17.19	78.00	3258.56	9.47	7.26	135.62	75.56	58.08	4.32	Goetzel 32N-30B-M (p)	
3400.00	17.19	78.00	3354.10	10.02	7.53	132.23	76.68	58.03	4.11	Goetzel 32N-30B-M (p)	
3500.00	17.19	78.00	3449.63	10.59	7.80	128.94	78.06	58.19	3.93	Goetzel 32N-30B-M (p)	
3600.00	17.19	78.00	3545.17	11.16	8.07	125.79	79.69	58.54	3.77	Goetzel 32N-30B-M (p)	
3700.00	17.19	78.00	3640.70	11.73	8.35	122.76	81.55	59.09	3.63	Goetzel 32N-30B-M (p)	
3800.00	17.19	78.00	3736.24	12.31	8.63	119.88	83.63	59.84	3.52	Goetzel 32N-30B-M (p)	
3900.00	17.19	78.00	3831.77	12.89	8.91	117.15	85.90	60.76	3.42	Goetzel 32N-30B-M (p)	
4000.00	17.19	78.00	3927.31	13.48	9.19	114.56	88.37	61.87	3.34	Goetzel 32N-30B-M (p)	
4100.00	17.19	78.00	4022.84	14.07	9.47	112.11	91.00	63.15	3.27	Goetzel 32N-30B-M (p)	
4200.00	17.19	78.00	4118.38	14.67	9.76	109.81	93.79	64.57	3.21	Goetzel 32N-30B-M (p)	
4300.00	17.19	78.00	4213.91	15.27	10.04	107.64	96.73	66.16	3.16	Goetzel 32N-30B-M (p)	
4400.00	17.19	78.00	4309.45	15.87	10.33	105.61	99.79	67.90	3.13	Goetzel 32N-30B-M (p)	

5D Anti-Collision Report

Primary Well: Goetzel 32C-30-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Nearest Well	Risk
4500.00	17.19	78.00	4404.98	16.47	10.62	103.69	102.97	69.73	3.10	Goetzel 32N-30B-M (p)	
4600.00	17.19	78.00	4500.52	17.07	10.91	101.90	106.26	71.69	3.07	Goetzel 32N-30B-M (p)	
4700.00	17.19	78.00	4596.05	17.68	11.20	100.21	109.65	73.78	3.06	Goetzel 32N-30B-M (p)	
4800.00	17.19	78.00	4691.59	18.28	11.49	98.63	113.13	75.96	3.04	Goetzel 32N-30B-M (p)	
4900.00	17.19	78.00	4787.12	18.89	11.78	97.14	116.69	78.20	3.03	Goetzel 32N-30B-M (p)	
5000.00	17.19	78.00	4882.66	19.50	12.08	95.74	120.32	80.54	3.02	Goetzel 32N-30B-M (p)	
5100.00	17.19	78.00	4978.19	20.11	12.37	94.42	124.02	82.97	3.02	Goetzel 32N-30B-M (p)	
5200.00	17.19	78.00	5073.73	20.72	12.66	93.18	127.78	85.47	3.02	Goetzel 32N-30B-M (p)	
5300.00	17.19	78.00	5169.26	21.33	12.96	92.01	131.60	88.05	3.02	Goetzel 32N-30B-M (p)	
5400.00	17.19	78.00	5264.80	21.95	13.26	90.91	135.47	90.70	3.03	Goetzel 32N-30B-M (p)	
5500.00	17.19	78.00	5360.33	22.56	13.55	89.86	139.39	93.40	3.03	Goetzel 32N-30B-M (p)	
5600.00	17.19	78.00	5455.87	23.18	13.85	88.88	143.35	96.14	3.04	Goetzel 32N-30B-M (p)	
5700.00	17.19	78.00	5551.40	23.79	14.15	87.95	147.35	98.91	3.04	Goetzel 32N-30B-M (p)	
5800.00	17.19	78.00	5646.94	24.41	14.44	87.07	151.39	101.73	3.05	Goetzel 32N-30B-M (p)	
5900.00	17.19	78.00	5742.47	25.02	14.74	86.23	155.46	104.60	3.06	Goetzel 32N-30B-M (p)	
6000.00	17.19	78.00	5838.01	25.64	15.04	85.44	159.56	107.50	3.07	Goetzel 32N-30B-M (p)	
6100.00	17.19	78.00	5933.54	26.26	15.34	84.69	163.69	110.44	3.07	Goetzel 32N-30B-M (p)	
6200.00	17.19	78.00	6029.08	26.88	15.64	83.97	167.85	113.42	3.08	Goetzel 32N-30B-M (p)	
6300.00	17.19	78.00	6124.61	27.49	15.94	85.91	170.17	114.40	3.05	Goetzel 32N-30B-M (p)	
6400.00	16.91	77.85	6220.15	28.11	16.24	92.73	170.53	113.48	2.99	Goetzel 32N-30B-M (p)	
6500.00	9.11	69.55	6317.52	28.49	16.47	109.36	173.34	116.13	3.03	Goetzel 32N-30B-M (p)	
6600.00	2.82	11.08	6416.99	28.67	16.40	175.61	179.84	123.49	3.19	Goetzel 32N-30B-M (p)	
6700.00	7.80	287.31	6516.62	28.69	16.03	266.30	189.22	134.54	3.46	Goetzel 32N-30B-M (p)	
6800.00	15.55	276.79	6614.49	28.56	15.39	282.75	200.54	148.04	3.82	Goetzel 32N-30B-M (p)	
6900.00	23.46	273.22	6708.68	28.34	14.50	291.24	212.84	162.41	4.22		

5D Anti-Collision Report

Primary Well: Goetzel 32C-30-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Nearest Well	Risk
7000.00	31.42	271.38	6797.36	28.06	13.41	297.06	225.31	176.92	4.66	Goetzel 32N-30B-M (p)	
7100.00	39.39	270.23	6878.81	27.77	12.21	319.07	1120.14	895.93	5.00	Goetzel 32N-30B-M (p)	
7100.00	39.39	270.23	6878.81	27.77	12.21	301.38	237.27	190.75	5.10	Goetzel 2- 29 (s)	
7200.00	47.37	269.41	6951.43	27.55	11.01	314.00	1063.51	836.97	4.69	Goetzel 32N-30B-M (p)	
7200.00	47.37	269.41	6951.43	27.55	11.01	304.64	248.18	203.22	5.52	Goetzel 2- 29 (s)	
7300.00	55.35	268.79	7013.83	27.44	9.96	307.07	1000.34	770.94	4.36	Goetzel 32N-30B-M (p)	
7300.00	55.35	268.79	7013.83	27.44	9.96	307.07	257.63	213.73	5.87	Goetzel 2- 29 (s)	
7400.00	63.34	268.27	7064.77	27.50	9.26	298.47	932.83	701.21	4.03	Goetzel 32N-30B-M (p)	
7400.00	63.34	268.27	7064.77	27.50	9.26	308.83	265.30	221.77	6.09	Goetzel 2- 29 (s)	
7500.00	71.33	267.82	7103.27	27.79	9.11	288.92	863.53	630.37	3.70	Goetzel 32N-30B-M (p)	
7500.00	71.33	267.82	7103.27	27.79	9.11	310.01	270.97	227.19	6.19	Goetzel 2- 29 (s)	
7600.00	79.32	267.41	7128.58	28.30	9.57	279.68	795.36	559.32	3.37	Goetzel 32N-30B-M (p)	
7600.00	79.32	267.41	7128.58	28.30	9.57	310.66	274.50	229.93	6.16	Goetzel 2- 29 (s)	
7700.00	87.31	267.02	7140.21	29.04	10.57	272.05	731.52	493.96	3.08	Goetzel 32N-30B-M (p)	
7700.00	87.31	267.02	7140.21	29.04	10.57	310.83	275.79	229.83	6.00	Goetzel 2- 29 (s)	
7800.00	90.00	266.89	7141.00	29.97	11.29	270.00	675.45	435.22	2.81	Goetzel 32N-30B-M (p)	
7800.00	90.00	266.89	7141.00	29.97	11.29	310.73	275.84	228.16	5.79	Goetzel 2- 29 (s)	
7900.00	90.00	266.89	7141.00	31.13	11.78	270.00	630.30	387.40	2.59	Goetzel 32N-30B-M (p)	
7900.00	90.00	266.89	7141.00	31.13	11.78	310.69	276.11	226.55	5.57	Goetzel 2- 29 (s)	
8000.00	90.00	266.89	7141.00	32.48	12.28	270.00	598.61	353.08	2.44	Goetzel 32N-30B-M (p)	SF(Lo)
8000.00	90.00	266.89	7141.00	32.48	12.28	310.64	276.38	224.64	5.34	Goetzel 2- 29 (s)	
8100.00	90.00	266.89	7141.00	34.02	12.81	270.00	582.56	334.71	2.35	Goetzel 32N-30B-M (p)	SF(Lo)
8100.00	90.00	266.89	7141.00	34.02	12.81	310.59	276.65	222.44	5.10	Goetzel 2- 29 (s)	
8200.00	90.00	266.89	7141.00	35.70	13.36	270.00	583.46	333.87	2.34	Goetzel 32N-30B-M (p)	SF(Lo)
8200.00	90.00	266.89	7141.00	35.70	13.36	310.54	276.92	220.01	4.87	Goetzel 2- 29 (s)	
8300.00	90.00	266.89	7141.00	37.52	13.93	270.00	601.23	350.79	2.40	Goetzel 32N-30B-M (p)	SF(Lo)
8300.00	90.00	266.89	7141.00	37.52	13.93	310.49	277.19	217.39	4.64	Goetzel 2- 29 (s)	
8400.00	90.00	266.89	7141.00	39.46	14.51	270.00	634.45	383.99	2.53	Goetzel 32N-30B-M (p)	
										Goetzel 2- 29 (s)	

5D Anti-Collision Report

Primary Well: Goetzel 32C-30-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Nearest Well	Risk
8400.00	90.00	266.89	7141.00	39.46	14.51	310.45	277.46	214.60	4.41	Goetzel 32N-30B-M (p)	
8500.00	90.00	266.89	7141.00	41.49	15.11	270.00	680.87	431.16	2.73	Goetzel 2- 29 (s)	
8500.00	90.00	266.89	7141.00	41.49	15.11	310.40	277.73	211.67	4.20	Goetzel 32N-30B-M (p)	
8600.00	90.00	266.89	7141.00	43.61	15.72	270.00	737.99	488.36	2.96	Goetzel 2- 29 (s)	
8600.00	90.00	266.89	7141.00	43.61	15.72	310.35	278.00	208.61	4.01	Goetzel 32N-30B-M (p)	
8700.00	90.00	266.89	7141.00	45.80	16.33	270.00	803.54	554.95	3.23	Goetzel 2- 29 (s)	
8700.00	90.00	266.89	7141.00	45.80	16.33	310.30	278.27	205.45	3.82	Goetzel 32N-30B-M (p)	
8800.00	90.00	266.89	7141.00	48.06	16.96	270.00	875.63	627.67	3.53	Goetzel 2- 29 (s)	
8800.00	90.00	266.89	7141.00	48.06	16.96	310.26	278.54	202.17	3.65	Goetzel 32N-30B-M (p)	
8900.00	90.00	266.89	7141.00	50.37	17.60	310.21	278.81	198.82	3.49	Goetzel 32N-30B-M (p)	
9000.00	90.00	266.89	7141.00	52.72	18.24	310.16	279.09	195.40	3.34	Goetzel 32N-30B-M (p)	
9100.00	90.00	266.89	7141.00	55.12	18.89	310.12	279.36	191.93	3.20	Goetzel 32N-30B-M (p)	
9200.00	90.00	266.89	7141.00	57.55	19.54	270.00	731.71	481.28	2.92	Tollgate Farms 29- 12G6 (s)	
9200.00	90.00	266.89	7141.00	57.55	19.54	310.07	279.63	188.42	3.07	Goetzel 32N-30B-M (p)	
9300.00	90.00	266.89	7141.00	60.02	20.20	270.00	653.02	397.90	2.56	Tollgate Farms 29- 12G6 (s)	
9300.00	90.00	266.89	7141.00	60.02	20.20	310.02	279.90	184.85	2.94	Goetzel 32N-30B-M (p)	
9400.00	90.00	266.89	7141.00	62.51	20.87	270.00	580.93	319.19	2.22	Tollgate Farms 29- 12G6 (s)	SF(Lo)
9400.00	90.00	266.89	7141.00	62.51	20.87	309.98	280.17	181.19	2.83	Goetzel 32N-30B-M (p)	
9500.00	90.00	266.89	7141.00	65.03	21.54	270.00	518.19	249.65	1.93	Tollgate Farms 29- 12G6 (s)	SF(Lo)
9500.00	90.00	266.89	7141.00	65.03	21.54	309.93	280.45	177.46	2.72	Goetzel 32N-30B-M (p)	
9600.00	90.00	266.89	7141.00	67.57	22.21	270.00	468.57	192.77	1.70	Tollgate Farms 29- 12G6 (s)	SF(Lo)
9600.00	90.00	266.89	7141.00	67.57	22.21	309.88	280.72	173.67	2.62	Goetzel 32N-30B-M (p)	
9700.00	90.00	266.89	7141.00	70.13	22.89	270.00	436.57	153.90	1.54	Tollgate Farms 29- 12G6 (s)	SF(Lo)
9700.00	90.00	266.89	7141.00	70.13	22.89	309.84	280.99	169.85	2.53	Goetzel 32N-30B-M (p)	
9800.00	90.00	266.89	7141.00	72.71	23.57	270.00	426.18	139.97	1.49	Tollgate Farms 29- 12G6 (s)	SF(Med)
9800.00	90.00	266.89	7141.00	72.71	23.57	309.79	281.27	165.99	2.44	Goetzel 32N-30B-M (p)	SF(Lo)
9900.00	90.00	266.89	7141.00	75.31	24.25	270.00	438.94	152.41	1.53		SF(Lo)

5D Anti-Collision Report

Primary Well: Goetzel 32C-30-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Nearest Well	Risk
9900.00	90.00	266.89	7141.00	75.31	24.25	309.74	281.54	162.11	2.36	Tollgate Farms 29- 12G6 (s) Goetzel 32N-30B-M (p)	SF(Lo)
10000.00	90.00	266.89	7141.00	77.91	24.94	270.00	472.98	189.34	1.67	Tollgate Farms 29- 12G6 (s)	SF(Lo)
10000.00	90.00	266.89	7141.00	77.91	24.94	309.70	281.81	158.21	2.28	Goetzel 32N-30B-M (p)	SF(Lo)
10100.00	90.00	266.89	7141.00	80.54	25.63	270.00	524.16	244.96	1.88	Tollgate Farms 29- 12G6 (s)	SF(Lo)
10100.00	90.00	266.89	7141.00	80.54	25.63	309.65	282.09	154.27	2.21	Goetzel 32N-30B-M (p)	SF(Lo)
10200.00	90.00	266.89	7141.00	83.17	26.32	309.60	282.36	150.31	2.14	Goetzel 32N-30B-M (p)	SF(Lo)
10300.00	90.00	266.89	7141.00	85.81	27.01	309.56	282.63	146.33	2.07	Goetzel 32N-30B-M (p)	SF(Lo)
10400.00	90.00	266.89	7141.00	88.46	27.71	309.51	282.91	142.33	2.01	Goetzel 32N-30B-M (p)	SF(Lo)
10500.00	90.00	266.89	7141.00	91.13	28.41	309.47	283.18	138.32	1.95	Goetzel 32N-30B-M (p)	SF(Lo)
10600.00	90.00	266.89	7141.00	93.79	29.11	309.42	283.46	134.29	1.90	Goetzel 32N-30B-M (p)	SF(Lo)
10700.00	90.00	266.89	7141.00	96.47	29.81	309.38	283.73	130.24	1.85	Goetzel 32N-30B-M (p)	SF(Lo)
10800.00	90.00	266.89	7141.00	99.15	30.51	309.33	284.01	126.18	1.80	Goetzel 32N-30B-M (p)	SF(Lo)
10900.00	90.00	266.89	7141.00	101.84	31.21	309.28	284.28	122.11	1.75	Goetzel 32N-30B-M (p)	SF(Lo)
11000.00	90.00	266.89	7141.00	104.54	31.92	309.24	284.56	118.02	1.71	Goetzel 32N-30B-M (p)	SF(Lo)
11100.00	90.00	266.89	7141.00	107.24	32.63	309.19	284.83	113.92	1.67	Goetzel 32N-30B-M (p)	SF(Lo)
11200.00	90.00	266.89	7141.00	109.95	33.33	309.15	285.11	109.81	1.63	Goetzel 32N-30B-M (p)	SF(Lo)
11300.00	90.00	266.89	7141.00	112.66	34.04	309.10	285.38	105.69	1.59	Goetzel 32N-30B-M (p)	SF(Lo)
11400.00	90.00	266.89	7141.00	115.37	34.75	309.06	285.66	101.55	1.55	Goetzel 32N-30B-M (p)	SF(Lo)
11500.00	90.00	266.89	7141.00	118.09	35.46	309.01	285.94	97.41	1.52	Goetzel 32N-30B-M (p)	SF(Lo)
11600.00	90.00	266.89	7141.00	120.81	36.18	308.97	286.21	93.26	1.48	Goetzel 32N-30B-M (p)	SF(Med)
11700.00	90.00	266.89	7141.00	123.54	36.89	308.92	286.49	89.09	1.45	Goetzel 32N-30B-M (p)	SF(Med)
11800.00	90.00	266.89	7141.00	126.27	37.60	308.88	286.76	84.92	1.42	Goetzel 32N-30B-M (p)	SF(Med)
11900.00	90.00	266.89	7141.00	129.00	38.32	308.84	287.04	80.74	1.39	Goetzel 32N-30B-M (p)	SF(Med)
12000.00	90.00	266.89	7141.00	131.73	39.03	308.79	287.32	76.55	1.36	Goetzel 32N-30B-M (p)	SF(Med)
12100.00	90.00	266.89	7141.00	134.47	39.75	308.75	287.60	72.35	1.34		SF(Med)

5D Anti-Collision Report

Primary Well: Goetzel 32C-30-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Nearest Well	Risk
12200.00	90.00	266.89	7141.00	137.21	40.46	308.70	287.87	68.14	1.31	Goetzel 32N-30B-M (p)	SF(Med)
12300.00	90.00	266.89	7141.00	139.95	41.18	308.66	288.15	63.93	1.29	Goetzel 32N-30B-M (p)	SF(Med)
12400.00	90.00	266.89	7141.00	142.70	41.90	308.61	288.43	59.71	1.26	Goetzel 32N-30B-M (p)	SF(Med)
12500.00	90.00	266.89	7141.00	145.44	42.61	308.57	288.71	55.48	1.24	Goetzel 32N-30B-M (p)	SF(Med)
12600.00	90.00	266.89	7141.00	148.19	43.33	308.53	288.98	51.24	1.22	Goetzel 32N-30B-M (p)	SF(Med)
12700.00	90.00	266.89	7141.00	150.94	44.05	308.48	289.26	47.00	1.19	Goetzel 32N-30B-M (p)	SF(Med)
12800.00	90.00	266.89	7141.00	153.69	44.77	308.44	289.54	42.75	1.17	Goetzel 32N-30B-M (p)	SF(Med)
12900.00	90.00	266.89	7141.00	156.45	45.49	308.39	289.82	38.49	1.15	Goetzel 32N-30B-M (p)	SF(Med)
13000.00	90.00	266.89	7141.00	159.20	46.21	308.35	290.10	34.22	1.13	Goetzel 32N-30B-M (p)	SF(Med)
13100.00	90.00	266.89	7141.00	161.96	46.93	308.31	290.38	29.95	1.12	Goetzel 32N-30B-M (p)	SF(Med)
13200.00	90.00	266.89	7141.00	164.72	47.65	308.26	290.66	25.68	1.10	Goetzel 32N-30B-M (p)	SF(Med)
13300.00	90.00	266.89	7141.00	167.47	48.37	308.22	290.94	21.39	1.08	Goetzel 32N-30B-M (p)	SF(Med)
13400.00	90.00	266.89	7141.00	170.24	49.09	308.18	291.21	17.10	1.06	Goetzel 32N-30B-M (p)	SF(Med)
13500.00	90.00	266.89	7141.00	173.00	49.82	308.13	291.49	12.81	1.05	Goetzel 32N-30B-M (p)	SF(Med)
13600.00	90.00	266.89	7141.00	175.76	50.54	308.09	291.77	8.50	1.03	Goetzel 32N-30B-M (p)	SF(Med)
13700.00	90.00	266.89	7141.00	178.52	51.26	308.05	292.05	4.20	1.01	Goetzel 32N-30B-M (p)	SF(Med)
13800.00	90.00	266.89	7141.00	181.29	51.98	270.00	357.61	-27.56	0.93	Tigges 30- 31 (s)	SF(Hi)
13800.00	90.00	266.89	7141.00	181.29	51.98	308.01	292.33	-0.12	1.00	Goetzel 32N-30B-M (p)	SF(Hi)
13900.00	90.00	266.89	7141.00	184.06	52.71	270.00	337.14	-61.02	0.85	Tigges 30- 31 (s)	SF(Hi)
13900.00	90.00	266.89	7141.00	184.06	52.71	307.96	292.61	-4.44	0.99	Goetzel 32N-30B-M (p)	SF(Hi)
14000.00	90.00	266.89	7141.00	186.82	53.43	270.00	345.61	-49.81	0.87	Tigges 30- 31 (s)	SF(Hi)
14000.00	90.00	266.89	7141.00	186.82	53.43	307.92	292.89	-8.76	0.97	Goetzel 32N-30B-M (p)	SF(Hi)
14100.00	90.00	266.89	7141.00	189.59	54.16	307.88	293.17	-13.09	0.96	Goetzel 32N-30B-M (p)	SF(Hi)
14200.00	90.00	266.89	7141.00	192.36	54.88	307.83	293.46	-17.43	0.94	Goetzel 32N-30B-M (p)	SF(Hi)
14300.00	90.00	266.89	7141.00	195.13	55.60	307.79	293.74	-21.77	0.93	Goetzel 32N-30B-M (p)	SF(Hi)

5D Anti-Collision Report

Primary Well: Goetzel 32C-30-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Nearest Well	Risk
14400.00	90.00	266.89	7141.00	197.90	56.33	307.75	294.02	-26.12	0.92	Goetzel 32N-30B-M (p)	SF(Hi)
14500.00	90.00	266.89	7141.00	200.67	57.05	307.71	294.30	-30.47	0.91	Goetzel 32N-30B-M (p)	SF(Hi)
14600.00	90.00	266.89	7141.00	203.45	57.78	307.66	294.58	-34.82	0.89	Goetzel 32N-30B-M (p)	SF(Hi)
14700.00	90.00	266.89	7141.00	206.22	58.50	307.62	294.86	-39.19	0.88	Goetzel 32N-30B-M (p)	SF(Hi)
14800.00	90.00	266.89	7141.00	208.99	59.23	307.58	295.14	-43.55	0.87	Goetzel 32N-30B-M (p)	SF(Hi)
14900.00	90.00	266.89	7141.00	211.77	59.95	307.54	295.42	-47.92	0.86	Goetzel 32N-30B-M (p)	SF(Hi)
15000.00	90.00	266.89	7141.00	214.54	60.68	307.50	295.71	-52.30	0.85	Goetzel 32N-30B-M (p)	SF(Hi)
15100.00	90.00	266.89	7141.00	217.32	61.41	307.45	295.99	-56.68	0.84	Goetzel 32N-30B-M (p)	SF(Hi)
15200.00	90.00	266.89	7141.00	220.09	62.13	307.41	296.27	-61.07	0.83	Goetzel 32N-30B-M (p)	SF(Hi)
15300.00	90.00	266.89	7141.00	222.87	62.86	307.37	296.55	-65.46	0.82	Goetzel 32N-30B-M (p)	SF(Hi)
15400.00	90.00	266.89	7141.00	225.65	63.58	307.33	296.84	-69.86	0.81	Goetzel 32N-30B-M (p)	SF(Hi)
15500.00	90.00	266.89	7141.00	228.43	64.31	307.29	297.12	-74.26	0.80	Goetzel 32N-30B-M (p)	SF(Hi)
15600.00	90.00	266.89	7141.00	231.20	65.04	307.25	297.40	-78.66	0.79	Goetzel 32N-30B-M (p)	SF(Hi)
15644.54	90.00	266.89	7141.00	232.44	65.36	307.23	297.53	-80.63	0.79	Goetzel 32N-30B-M (p)	SF(Hi)
Secondary Well: Goetzel 2-29 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
0.00	0.00	0.00	0.00	28.00	0.00	0.00	157.59	367.94	367.17	478.00	
100.00	72.00	0.00	0.00	100.00	1.09	1.09	157.59	366.87	364.90	186.10	
200.00	172.00	0.00	0.00	200.00	2.69	2.69	157.59	366.87	363.08	96.73	
300.00	272.00	0.00	0.00	300.00	5.73	5.73	157.59	366.87	359.82	52.03	
400.00	372.00	0.00	0.00	400.00	8.77	8.77	157.59	366.87	356.56	35.58	
500.00	472.00	0.00	0.00	500.00	11.80	11.80	157.59	366.87	353.48	27.38	
600.00	572.00	0.00	0.00	600.00	14.84	14.84	157.59	366.87	350.22	22.03	
700.00	672.00	0.00	0.00	700.00	17.88	17.88	157.59	366.87	346.96	18.42	
800.00	772.00	0.00	0.00	800.00	20.91	20.91	157.59	366.87	343.70	15.83	
900.00	872.00	0.00	0.00	900.00	23.95	23.95	157.59	366.87	340.44	13.88	
1000.00	972.00	0.00	0.00	1000.00	26.99	26.99	157.59	366.87	337.18	12.36	
1100.00	1072.00	0.00	0.00	1100.00	30.02	30.02	157.59	366.87	333.92	11.13	
1200.00	1172.00	0.00	0.00	1200.00	33.06	33.06	157.59	366.87	330.66	10.13	
1300.00	1272.00	0.00	0.00	1300.00	36.10	36.10	157.59	366.87	327.41	9.30	
1400.00	1372.00	0.00	0.00	1400.00	39.14	39.14	157.59	366.87	324.15	8.59	
1500.00	1472.00	0.00	0.00	1500.00	42.17	42.17	157.59	366.87	320.89	7.98	
1600.00	1572.00	0.00	0.00	1600.00	45.21	45.21	157.59	366.87	317.63	7.45	
1700.00	1672.00	0.00	0.00	1700.00	48.25	48.25	157.59	366.87	314.37	6.99	
1800.00	1772.00	0.00	0.00	1800.00	51.28	51.28	157.59	366.87	311.11	6.58	
1900.00	1871.98	0.00	0.00	1899.98	54.32	54.32	79.86	366.56	307.54	6.21	
2000.00	1971.84	0.00	0.00	1999.84	57.35	57.35	80.69	365.68	303.40	5.87	
2100.00	2071.45	0.00	0.00	2099.45	60.38	60.38	82.06	364.36	298.83	5.56	

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
2200.00	2170.70	0.00	0.00	2198.70	63.39	63.39	83.98	362.87	294.13	5.28	
2300.00	2269.47	0.00	0.00	2297.47	66.39	66.39	86.44	361.55	289.71	5.03	
2400.00	2367.62	0.00	0.00	2395.62	69.37	69.37	89.43	360.85	285.64	4.80	
2500.00	2465.06	0.00	0.00	2493.06	72.33	72.33	92.89	361.32	282.76	4.60	
2600.00	2561.64	0.00	0.00	2589.64	75.26	75.26	96.79	363.59	282.00	4.46	
2700.00	2657.36	0.00	0.00	2685.36	78.17	78.17	101.03	368.27	283.09	4.32	
2800.00	2752.89	0.00	0.00	2780.89	81.07	81.07	105.28	375.30	286.97	4.25	
2900.00	2848.42	0.00	0.00	2876.42	83.97	83.97	109.36	384.47	292.68	4.19	
3000.00	2943.96	0.00	0.00	2971.96	86.87	86.87	113.25	395.65	300.54	4.16	
3100.00	3039.49	0.00	0.00	3067.49	89.77	89.77	116.93	408.66	310.39	4.16	
3200.00	3135.03	0.00	0.00	3163.03	92.68	92.68	120.38	423.33	321.57	4.16	
3300.00	3230.56	0.00	0.00	3258.56	95.58	95.58	123.60	439.51	334.57	4.19	
3400.00	3326.10	0.00	0.00	3354.10	98.48	98.48	126.60	457.02	348.96	4.23	
3500.00	3421.63	0.00	0.00	3449.63	101.38	101.38	129.38	475.73	364.19	4.27	
3600.00	3517.17	0.00	0.00	3545.17	104.28	104.28	131.96	495.49	380.73	4.32	
3700.00	3612.70	0.00	0.00	3640.70	107.18	107.18	134.34	516.19	398.42	4.38	
3800.00	3708.24	0.00	0.00	3736.24	110.08	110.08	136.55	537.71	416.81	4.45	
3900.00	3803.77	0.00	0.00	3831.77	112.99	112.99	138.59	559.97	435.64	4.50	
4000.00	3899.31	0.00	0.00	3927.31	115.89	115.89	140.47	582.88	455.28	4.57	
4100.00	3994.84	0.00	0.00	4022.84	118.79	118.79	142.22	606.36	475.61	4.64	
4200.00	4090.38	0.00	0.00	4118.38	121.69	121.69	143.84	630.35	496.57	4.71	
4300.00	4185.91	0.00	0.00	4213.91	124.59	124.59	145.35	654.80	518.07	4.79	
4400.00	4281.45	0.00	0.00	4309.45	127.49	127.49	146.74	679.65	539.70	4.86	
4500.00	4376.98	0.00	0.00	4404.98	130.39	130.39	148.05	704.86	561.59	4.92	
4600.00	4472.52	0.00	0.00	4500.52	133.29	133.29	149.26	730.40	583.85	4.98	
4700.00	4568.05	0.00	0.00	4596.05	136.20	136.20	150.39	756.24	606.46	5.05	
4800.00	4663.59	0.00	0.00	4691.59	139.10	139.10	151.45	782.33	629.38	5.12	
4900.00	4759.12	0.00	0.00	4787.12	142.00	142.00	152.44	808.66	652.59	5.18	
5000.00	4854.66	0.00	0.00	4882.66	144.90	144.90	153.37	835.21	676.06	5.25	
5100.00	4950.19	0.00	0.00	4978.19	147.80	147.80	154.24	861.95	699.75	5.31	
5200.00	5045.73	0.00	0.00	5073.73	150.70	150.70	155.06	888.87	723.66	5.38	
5300.00	5141.26	0.00	0.00	5169.26	153.60	153.60	155.84	915.96	747.75	5.45	
5400.00	5236.80	0.00	0.00	5264.80	156.50	156.50	156.57	943.19	771.77	5.50	
5500.00	5332.33	0.00	0.00	5360.33	159.41	159.41	157.26	970.55	795.86	5.56	
5600.00	5427.87	0.00	0.00	5455.87	162.31	162.31	157.91	998.04	820.10	5.61	
5700.00	5523.40	0.00	0.00	5551.40	165.21	165.21	158.53	1025.65	844.46	5.66	
5800.00	5618.94	0.00	0.00	5646.94	168.11	168.11	159.11	1053.36	868.93	5.71	
5900.00	5714.47	0.00	0.00	5742.47	171.01	171.01	159.67	1081.16	893.51	5.76	
6000.00	5810.01	0.00	0.00	5838.01	173.91	173.91	160.19	1109.06	918.20	5.81	
6100.00	5905.54	0.00	0.00	5933.54	176.81	176.81	160.70	1137.04	942.99	5.86	
6200.00	6001.08	0.00	0.00	6029.08	179.71	179.71	161.17	1165.10	967.86	5.91	
6300.00	6096.61	0.00	0.00	6124.61	182.62	182.62	161.63	1193.23	992.83	5.95	
6400.00	6192.15	0.00	0.00	6220.15	185.52	185.52	162.25	1221.42	1017.86	6.00	
6500.00	6289.52	0.00	0.00	6317.52	188.47	188.47	171.42	1243.20	1036.50	6.01	
6600.00	6388.99	0.00	0.00	6416.99	191.49	191.49	229.99	1252.63	1042.74	5.97	
6700.00	6488.62	0.00	0.00	6516.62	194.52	194.52	313.15	1249.53	1036.46	5.86	
6800.00	6586.49	0.00	0.00	6614.49	197.49	197.49	322.32	1234.08	1017.89	5.71	
6900.00	6680.68	0.00	0.00	6708.68	200.35	200.35	323.69	1206.75	987.60	5.51	
7000.00	6769.36	0.00	0.00	6797.36	203.05	203.05	322.34	1168.38	946.52	5.27	
7100.00	6850.81	0.00	0.00	6878.81	205.52	205.52	319.07	1120.14	895.93	5.00	
7200.00	6923.43	0.00	0.00	6951.43	207.73	207.73	314.00	1063.51	836.97	4.69	
7300.00	6985.83	0.00	0.00	7013.83	209.62	209.62	307.07	1000.34	770.94	4.36	
7400.00	7036.77	0.00	0.00	7064.77	211.17	211.17	298.47	932.83	701.21	4.03	
7500.00	7075.27	0.00	0.00	7103.27	212.34	212.34	288.92	863.53	630.37	3.70	
7600.00	7100.58	0.00	0.00	7128.58	213.10	213.10	279.68	795.36	559.32	3.37	
7700.00	7112.21	0.00	0.00	7140.21	213.46	213.46	272.05	731.52	493.96	3.08	
7800.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	675.45	435.22	2.81	
7900.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	630.30	387.40	2.59	

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
8000.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	598.61	353.08	2.44	SF(Lo)
8100.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	582.56	334.71	2.35	SF(Lo)
8200.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	583.46	333.87	2.34	SF(Lo)
8300.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	601.23	350.79	2.40	SF(Lo)
8400.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	634.45	383.99	2.53	
8500.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	680.87	431.16	2.73	
8600.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	737.99	488.36	2.96	
8700.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	803.54	554.95	3.23	
8800.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	875.63	627.67	3.53	
8900.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	952.77	706.31	3.87	
9000.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	1033.84	787.67	4.20	
9100.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	1117.98	872.59	4.56	
9200.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	1204.55	960.30	4.93	
9300.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	1293.05	1049.24	5.30	
9400.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	1383.12	1139.55	5.68	
9500.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	1474.48	1231.32	6.06	
9600.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	1566.89	1324.26	6.46	
9700.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	1660.17	1418.15	6.86	
9800.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	1754.20	1512.81	7.27	
9900.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	1848.86	1608.05	7.68	
10000.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	1944.05	1703.34	8.08	
10100.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	2039.70	1799.02	8.47	
10200.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	2135.75	1895.14	8.88	
10300.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	2232.15	1991.63	9.28	
10400.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	2328.85	2088.45	9.69	
10500.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	2425.81	2185.55	10.10	
10600.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	2523.02	2282.91	10.51	
10700.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	2620.43	2380.47	10.92	
10800.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	2718.04	2478.23	11.33	
10900.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	2815.81	2576.16	11.75	
11000.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	2913.73	2674.25	12.17	
11100.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	3011.79	2772.46	12.58	
11200.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	3109.97	2870.80	13.00	
11300.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	3208.27	2969.25	13.42	
11400.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	3306.66	3067.80	13.84	
11500.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	3405.15	3166.44	14.26	
11600.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	3503.73	3265.15	14.69	
11700.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	3602.38	3363.95	15.11	
11800.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	3701.11	3462.80	15.53	
11900.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	3799.90	3561.70	15.95	
12000.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	3898.76	3660.66	16.37	
12100.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	3997.67	3759.68	16.80	
12200.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	4096.64	3858.74	17.22	
12300.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	4195.65	3957.75	17.64	
12400.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	4294.71	4056.78	18.05	
12500.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	4393.81	4155.86	18.46	
12600.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	4492.95	4254.97	18.88	
12700.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	4592.13	4354.13	19.29	
12800.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	4691.35	4453.32	19.71	
12900.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	4790.59	4552.54	20.12	
13000.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	4889.87	4651.80	20.54	
13100.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	4989.18	4751.09	20.95	
13200.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	5088.51	4850.40	21.37	
13300.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	5187.87	4949.74	21.79	
13400.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	5287.25	5049.10	22.20	
13500.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	5386.66	5148.49	22.62	
13600.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	5486.08	5247.90	23.03	
13700.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	5585.53	5347.33	23.45	

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
13800.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	5685.00	5446.77	23.86	
13900.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	5784.49	5546.24	24.28	
14000.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	5883.99	5645.72	24.70	
14100.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	5983.51	5745.22	25.11	
14200.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	6083.04	5844.74	25.53	
14300.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	6182.59	5944.27	25.94	
14400.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	6282.16	6043.81	26.36	
14500.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	6381.74	6143.37	26.77	
14600.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	6481.33	6242.94	27.19	
14700.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	6580.93	6342.52	27.60	
14800.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	6680.55	6442.11	28.02	
14900.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	6780.18	6541.72	28.43	
15000.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	6879.81	6641.33	28.85	
15100.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	6979.46	6740.96	29.26	
15200.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	7079.12	6840.59	29.68	
15300.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	7178.79	6940.23	30.09	
15400.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	7278.46	7039.89	30.51	
15500.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	7378.15	7139.55	30.92	
15600.00	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	7477.84	7239.21	31.34	
15644.54	7113.00	0.00	0.00	7141.00	213.48	213.48	270.00	7522.25	7283.61	31.52	
Secondary Well: Miller 2 (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	15.00	0.00	0.00	274.76	6991.11	6990.39	9601.96	
100.00	85.00	0.00	0.00	100.00	1.29	1.29	274.76	6991.10	6988.98	3292.74	
200.00	185.00	0.00	0.00	200.00	3.09	3.09	274.76	6991.10	6986.96	1689.98	
300.00	285.00	0.00	0.00	300.00	6.12	6.12	274.76	6991.10	6983.71	946.38	
400.00	385.00	0.00	0.00	400.00	9.16	9.16	274.76	6991.10	6980.63	668.00	
500.00	485.00	0.00	0.00	500.00	12.20	12.20	274.76	6991.10	6977.38	509.70	
600.00	585.00	0.00	0.00	600.00	15.23	15.23	274.76	6991.10	6974.13	412.05	
700.00	685.00	0.00	0.00	700.00	18.27	18.27	274.76	6991.10	6970.88	345.81	
800.00	785.00	0.00	0.00	800.00	21.31	21.31	274.76	6991.10	6967.63	297.91	
900.00	885.00	0.00	0.00	900.00	24.35	24.35	274.76	6991.10	6964.38	261.67	
1000.00	985.00	0.00	0.00	1000.00	27.38	27.38	274.76	6991.10	6961.13	233.29	
1100.00	1085.00	0.00	0.00	1100.00	30.42	30.42	274.76	6991.10	6957.88	210.46	
1200.00	1185.00	0.00	0.00	1200.00	33.46	33.46	274.76	6991.10	6954.63	191.70	
1300.00	1285.00	0.00	0.00	1300.00	36.49	36.49	274.76	6991.10	6951.38	176.01	
1400.00	1385.00	0.00	0.00	1400.00	39.53	39.53	274.76	6991.10	6948.13	162.70	
1500.00	1485.00	0.00	0.00	1500.00	42.57	42.57	274.76	6991.10	6944.88	151.26	
1600.00	1585.00	0.00	0.00	1600.00	45.60	45.60	274.76	6991.10	6941.63	141.32	
1700.00	1685.00	0.00	0.00	1700.00	48.64	48.64	274.76	6991.10	6938.38	132.61	
1800.00	1785.00	0.00	0.00	1800.00	51.68	51.68	274.76	6991.10	6935.13	124.91	
1900.00	1884.98	0.00	0.00	1899.98	54.71	54.71	196.77	6992.77	6933.56	118.10	
2000.00	1984.84	0.00	0.00	1999.84	57.75	57.75	196.78	6997.78	6935.34	112.06	
2100.00	2084.45	0.00	0.00	2099.45	60.77	60.77	196.81	7006.13	6940.45	106.68	
2200.00	2183.70	0.00	0.00	2198.70	63.79	63.79	196.85	7017.80	6948.92	101.88	
2300.00	2282.47	0.00	0.00	2297.47	66.78	66.78	196.90	7032.78	6960.68	97.54	
2400.00	2380.62	0.00	0.00	2395.62	69.77	69.77	196.96	7051.06	6975.77	93.64	
2500.00	2478.06	0.00	0.00	2493.06	72.72	72.72	197.04	7072.62	6994.14	90.12	
2600.00	2574.64	0.00	0.00	2589.64	75.66	75.66	197.13	7097.43	7015.79	86.94	
2700.00	2670.36	0.00	0.00	2685.36	78.56	78.56	197.16	7125.20	7040.42	84.04	
2800.00	2765.89	0.00	0.00	2780.89	81.47	81.47	197.09	7153.55	7065.62	81.36	
2900.00	2861.42	0.00	0.00	2876.42	84.37	84.37	197.02	7181.90	7090.82	78.85	
3000.00	2956.96	0.00	0.00	2971.96	87.27	87.27	196.95	7210.27	7116.03	76.51	
3100.00	3052.49	0.00	0.00	3067.49	90.17	90.17	196.89	7238.64	7141.23	74.31	
3200.00	3148.03	0.00	0.00	3163.03	93.07	93.07	196.82	7267.03	7166.44	72.25	
3300.00	3243.56	0.00	0.00	3258.56	95.97	95.97	196.75	7295.42	7191.66	70.31	

5D Anti-Collision Report

Secondary Well: Miller 2 (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
3400.00	3339.10	0.00	0.00	3354.10	98.87	98.87	196.68	7323.82	7216.89	68.49	
3500.00	3434.63	0.00	0.00	3449.63	101.77	101.77	196.62	7352.23	7242.11	66.77	
3600.00	3530.17	0.00	0.00	3545.17	104.68	104.68	196.55	7380.65	7267.35	65.14	
3700.00	3625.70	0.00	0.00	3640.70	107.58	107.58	196.49	7409.08	7292.59	63.60	
3800.00	3721.24	0.00	0.00	3736.24	110.48	110.48	196.42	7437.52	7317.84	62.15	
3900.00	3816.77	0.00	0.00	3831.77	113.38	113.38	196.36	7465.96	7343.09	60.76	
4000.00	3912.31	0.00	0.00	3927.31	116.28	116.28	196.30	7494.42	7368.35	59.45	
4100.00	4007.84	0.00	0.00	4022.84	119.18	119.18	196.23	7522.88	7393.62	58.20	
4200.00	4103.38	0.00	0.00	4118.38	122.08	122.08	196.17	7551.35	7418.90	57.01	
4300.00	4198.91	0.00	0.00	4213.91	124.98	124.98	196.11	7579.83	7444.18	55.88	
4400.00	4294.45	0.00	0.00	4309.45	127.89	127.89	196.05	7608.32	7469.47	54.79	
4500.00	4389.98	0.00	0.00	4404.98	130.79	130.79	195.99	7636.82	7494.76	53.76	
4600.00	4485.52	0.00	0.00	4500.52	133.69	133.69	195.93	7665.32	7520.06	52.77	
4700.00	4581.05	0.00	0.00	4596.05	136.59	136.59	195.87	7693.83	7545.37	51.82	
4800.00	4676.59	0.00	0.00	4691.59	139.49	139.49	195.81	7722.35	7570.68	50.92	
4900.00	4772.12	0.00	0.00	4787.12	142.39	142.39	195.75	7750.88	7596.00	50.05	
5000.00	4867.66	0.00	0.00	4882.66	145.29	145.29	195.69	7779.41	7621.33	49.21	
5100.00	4963.19	0.00	0.00	4978.19	148.20	148.20	195.63	7807.96	7646.66	48.41	
5200.00	5058.73	0.00	0.00	5073.73	151.10	151.10	195.57	7836.50	7672.00	47.64	
5300.00	5154.26	0.00	0.00	5169.26	154.00	154.00	195.51	7865.06	7697.35	46.90	
5400.00	5249.80	0.00	0.00	5264.80	156.90	156.90	195.46	7893.63	7722.71	46.18	
5500.00	5345.33	0.00	0.00	5360.33	159.80	159.80	195.40	7922.20	7748.07	45.50	
5600.00	5440.87	0.00	0.00	5455.87	162.70	162.70	195.34	7950.78	7773.44	44.83	
5700.00	5536.40	0.00	0.00	5551.40	165.60	165.60	195.29	7979.36	7798.81	44.19	
5800.00	5631.94	0.00	0.00	5646.94	168.50	168.50	195.23	8007.96	7824.19	43.58	
5900.00	5727.47	0.00	0.00	5742.47	171.41	171.41	195.18	8036.55	7849.58	42.98	
6000.00	5823.01	0.00	0.00	5838.01	174.31	174.31	195.12	8065.16	7874.98	42.41	
6100.00	5918.54	0.00	0.00	5933.54	177.21	177.21	195.07	8093.77	7900.38	41.85	
6200.00	6014.08	0.00	0.00	6029.08	180.11	180.11	195.01	8122.39	7925.79	41.31	
6300.00	6109.61	0.00	0.00	6124.61	183.01	183.01	194.96	8151.02	7951.20	40.79	
6400.00	6205.15	0.00	0.00	6220.15	185.91	185.91	195.05	8179.65	7976.61	40.29	
6500.00	6302.52	0.00	0.00	6317.52	188.87	188.87	202.94	8201.07	7994.83	39.77	
6600.00	6401.99	0.00	0.00	6416.99	191.89	191.89	261.12	8208.77	7999.31	39.19	
6700.00	6501.62	0.00	0.00	6516.62	194.92	194.92	344.71	8202.58	7989.96	38.58	
6800.00	6599.49	0.00	0.00	6614.49	197.89	197.89	355.18	8182.65	7966.96	37.94	
6900.00	6693.68	0.00	0.00	6708.68	200.75	200.75	358.81	8149.33	7930.75	37.28	
7000.00	6782.36	0.00	0.00	6797.36	203.44	203.44	0.87	8103.30	7882.03	36.62	
7100.00	6863.81	0.00	0.00	6878.81	205.91	205.91	2.47	8045.43	7821.73	35.97	
7200.00	6936.43	0.00	0.00	6951.43	208.12	208.12	4.05	7976.87	7751.02	35.32	
7300.00	6998.83	0.00	0.00	7013.83	210.01	210.01	5.97	7898.93	7671.27	34.70	
7400.00	7049.77	0.00	0.00	7064.77	211.56	211.56	8.77	7813.15	7584.02	34.10	
7500.00	7088.27	0.00	0.00	7103.27	212.73	212.73	13.69	7721.20	7490.97	33.54	
7600.00	7113.58	0.00	0.00	7128.58	213.50	213.50	24.95	7624.87	7393.93	33.02	
7700.00	7125.21	0.00	0.00	7140.21	213.85	213.85	63.54	7526.03	7294.80	32.55	
7800.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	7426.50	7195.30	32.12	
7900.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	7326.99	7095.85	31.70	
8000.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	7227.48	6996.37	31.27	
8100.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	7127.99	6896.86	30.84	
8200.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	7028.51	6797.37	30.41	
8300.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	6929.05	6697.91	29.98	
8400.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	6829.60	6598.47	29.55	
8500.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	6730.17	6499.02	29.12	
8600.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	6630.76	6399.54	28.68	
8700.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	6531.37	6300.09	28.24	
8800.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	6431.99	6200.67	27.81	
8900.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	6332.63	6101.29	27.37	
9000.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	6233.30	6001.93	26.94	
9100.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	6133.98	5902.54	26.50	

5D Anti-Collision Report

Secondary Well: Miller 2 (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
9200.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	6034.69	5803.14	26.06	
9300.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	5935.42	5703.74	25.62	
9400.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	5836.18	5604.37	25.18	
9500.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	5736.96	5505.03	24.74	
9600.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	5637.77	5405.72	24.30	
9700.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	5538.61	5306.41	23.85	
9800.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	5439.48	5207.09	23.41	
9900.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	5340.39	5107.79	22.96	
10000.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	5241.33	5008.52	22.51	
10100.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	5142.30	4909.27	22.07	
10200.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	5043.31	4809.95	21.61	
10300.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	4944.37	4710.59	21.15	
10400.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	4845.46	4611.26	20.69	
10500.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	4746.60	4511.96	20.23	
10600.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	4647.79	4412.69	19.77	
10700.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	4549.04	4313.44	19.31	
10800.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	4450.34	4214.17	18.84	
10900.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	4351.70	4114.94	18.38	
11000.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	4253.12	4015.75	17.92	
11100.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	4154.61	3916.59	17.46	
11200.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	4056.17	3817.42	16.99	
11300.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	3957.81	3718.29	16.52	
11400.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	3859.53	3619.18	16.06	
11500.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	3761.35	3520.07	15.59	
11600.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	3663.26	3421.02	15.12	
11700.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	3565.28	3322.03	14.66	
11800.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	3467.42	3223.10	14.19	
11900.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	3369.68	3124.25	13.73	
12000.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	3272.08	3025.47	13.27	
12100.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	3174.63	2926.79	12.81	
12200.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	3077.34	2828.12	12.35	
12300.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	2980.23	2729.52	11.89	
12400.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	2883.32	2630.95	11.43	
12500.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	2786.62	2532.51	10.97	
12600.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	2690.17	2434.21	10.51	
12700.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	2593.99	2336.07	10.06	
12800.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	2498.10	2238.10	9.61	
12900.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	2402.55	2140.34	9.16	
13000.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	2307.38	2042.72	8.72	
13100.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	2212.64	1944.94	8.27	
13200.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	2118.38	1847.38	7.82	
13300.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	2024.66	1750.03	7.37	
13400.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	1931.58	1653.06	6.94	
13500.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	1839.23	1556.53	6.51	
13600.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	1747.72	1460.53	6.09	
13700.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	1657.19	1365.19	5.68	
13800.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	1567.81	1270.67	5.28	
13900.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	1479.79	1176.38	4.88	
14000.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	1393.39	1082.71	4.49	
14100.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	1308.92	990.50	4.11	
14200.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	1226.79	900.17	3.76	
14300.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	1147.51	811.73	3.42	
14400.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	1071.69	725.02	3.09	
14500.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	1000.14	642.21	2.79	
14600.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	933.82	563.21	2.52	
14700.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	873.94	490.17	2.28	SF(Lo)
14800.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	821.91	424.59	2.07	SF(Lo)
14900.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	779.28	369.88	1.90	SF(Lo)

5D Anti-Collision Report

Secondary Well: Miller 2 (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
15000.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	747.68	326.44	1.77	SF(Lo)
15100.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	728.55	298.74	1.70	SF(Lo)
15200.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	722.86	288.53	1.66	SF(Lo)
15300.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	730.95	296.54	1.68	SF(Lo)
15400.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	752.35	320.94	1.74	SF(Lo)
15500.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	785.99	360.81	1.85	SF(Lo)
15600.00	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	830.38	414.26	2.00	SF(Lo)
15644.54	7126.00	0.00	0.00	7141.00	213.88	213.88	90.00	853.19	440.93	2.07	SF(Lo)
Secondary Well: Tollgate Farms 29-12G6 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
0.00	0.00	0.00	0.00	27.00	0.00	0.00	259.75	1540.99	1540.33	2333.42	
100.00	73.00	0.00	0.00	100.00	1.11	1.11	259.75	1540.75	1538.87	820.31	
200.00	173.00	0.00	0.00	200.00	2.72	2.72	259.75	1540.75	1537.03	414.58	
300.00	273.00	0.00	0.00	300.00	5.76	5.76	259.75	1540.75	1533.77	220.80	
400.00	373.00	0.00	0.00	400.00	8.80	8.80	259.75	1540.75	1530.68	153.04	
500.00	473.00	0.00	0.00	500.00	11.83	11.83	259.75	1540.75	1527.42	115.59	
600.00	573.00	0.00	0.00	600.00	14.87	14.87	259.75	1540.75	1524.16	92.87	
700.00	673.00	0.00	0.00	700.00	17.91	17.91	259.75	1540.75	1520.90	77.61	
800.00	773.00	0.00	0.00	800.00	20.94	20.94	259.75	1540.75	1517.64	66.66	
900.00	873.00	0.00	0.00	900.00	23.98	23.98	259.75	1540.75	1514.37	58.41	
1000.00	973.00	0.00	0.00	1000.00	27.02	27.02	259.75	1540.75	1511.11	51.99	
1100.00	1073.00	0.00	0.00	1100.00	30.05	30.05	259.75	1540.75	1507.85	46.83	
1200.00	1173.00	0.00	0.00	1200.00	33.09	33.09	259.75	1540.75	1504.59	42.61	
1300.00	1273.00	0.00	0.00	1300.00	36.13	36.13	259.75	1540.75	1501.33	39.08	
1400.00	1373.00	0.00	0.00	1400.00	39.17	39.17	259.75	1540.75	1498.07	36.10	
1500.00	1473.00	0.00	0.00	1500.00	42.20	42.20	259.75	1540.75	1494.80	33.53	
1600.00	1573.00	0.00	0.00	1600.00	45.24	45.24	259.75	1540.75	1491.54	31.31	
1700.00	1673.00	0.00	0.00	1700.00	48.28	48.28	259.75	1540.75	1488.28	29.37	
1800.00	1773.00	0.00	0.00	1800.00	51.31	51.31	259.75	1540.75	1485.02	27.65	
1900.00	1872.98	0.00	0.00	1899.98	54.35	54.35	181.75	1542.49	1483.51	26.15	
2000.00	1972.84	0.00	0.00	1999.84	57.38	57.38	181.74	1547.72	1485.51	24.88	
2100.00	2072.45	0.00	0.00	2099.45	60.41	60.41	181.74	1556.44	1491.00	23.78	
2200.00	2171.70	0.00	0.00	2198.70	63.42	63.42	181.73	1568.62	1499.94	22.84	
2300.00	2270.47	0.00	0.00	2297.47	66.42	66.42	181.73	1584.25	1512.38	22.04	
2400.00	2368.62	0.00	0.00	2395.62	69.40	69.40	181.72	1603.32	1528.25	21.36	
2500.00	2466.06	0.00	0.00	2493.06	72.36	72.36	181.71	1625.81	1547.55	20.77	
2600.00	2562.64	0.00	0.00	2589.64	75.29	75.29	181.70	1651.68	1570.25	20.28	
2700.00	2658.36	0.00	0.00	2685.36	78.20	78.20	181.68	1680.63	1596.06	19.87	
2800.00	2753.89	0.00	0.00	2780.89	81.10	81.10	181.65	1710.16	1622.46	19.50	
2900.00	2849.42	0.00	0.00	2876.42	84.00	84.00	181.62	1739.70	1648.86	19.15	
3000.00	2944.96	0.00	0.00	2971.96	86.90	86.90	181.59	1769.24	1675.26	18.83	
3100.00	3040.49	0.00	0.00	3067.49	89.81	89.81	181.57	1798.78	1701.65	18.52	
3200.00	3136.03	0.00	0.00	3163.03	92.71	92.71	181.54	1828.31	1728.05	18.23	
3300.00	3231.56	0.00	0.00	3258.56	95.61	95.61	181.52	1857.85	1754.43	17.96	
3400.00	3327.10	0.00	0.00	3354.10	98.51	98.51	181.49	1887.39	1780.82	17.71	
3500.00	3422.63	0.00	0.00	3449.63	101.41	101.41	181.47	1916.93	1807.20	17.47	
3600.00	3518.17	0.00	0.00	3545.17	104.31	104.31	181.45	1946.47	1833.58	17.24	
3700.00	3613.70	0.00	0.00	3640.70	107.21	107.21	181.43	1976.01	1859.96	17.03	
3800.00	3709.24	0.00	0.00	3736.24	110.11	110.11	181.41	2005.55	1886.34	16.82	
3900.00	3804.77	0.00	0.00	3831.77	113.02	113.02	181.38	2035.09	1912.71	16.63	
4000.00	3900.31	0.00	0.00	3927.31	115.92	115.92	181.37	2064.63	1939.09	16.45	
4100.00	3995.84	0.00	0.00	4022.84	118.82	118.82	181.35	2094.17	1965.46	16.27	
4200.00	4091.38	0.00	0.00	4118.38	121.72	121.72	181.33	2123.71	1991.83	16.10	
4300.00	4186.91	0.00	0.00	4213.91	124.62	124.62	181.31	2153.25	2018.19	15.94	
4400.00	4282.45	0.00	0.00	4309.45	127.52	127.52	181.29	2182.79	2044.56	15.79	
4500.00	4377.98	0.00	0.00	4404.98	130.42	130.42	181.27	2212.33	2070.92	15.64	

5D Anti-Collision Report

Secondary Well: Tollgate Farms 29-12G6 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
4600.00	4473.52	0.00	0.00	4500.52	133.32	133.32	181.26	2241.87	2097.29	15.51	
4700.00	4569.05	0.00	0.00	4596.05	136.23	136.23	181.24	2271.42	2123.65	15.37	
4800.00	4664.59	0.00	0.00	4691.59	139.13	139.13	181.22	2300.96	2150.01	15.24	
4900.00	4760.12	0.00	0.00	4787.12	142.03	142.03	181.21	2330.50	2176.37	15.12	
5000.00	4855.66	0.00	0.00	4882.66	144.93	144.93	181.19	2360.04	2202.73	15.00	
5100.00	4951.19	0.00	0.00	4978.19	147.83	147.83	181.18	2389.58	2229.09	14.89	
5200.00	5046.73	0.00	0.00	5073.73	150.73	150.73	181.17	2419.13	2255.45	14.78	
5300.00	5142.26	0.00	0.00	5169.26	153.63	153.63	181.15	2448.67	2281.81	14.68	
5400.00	5237.80	0.00	0.00	5264.80	156.53	156.53	181.14	2478.21	2308.17	14.57	
5500.00	5333.33	0.00	0.00	5360.33	159.44	159.44	181.12	2507.75	2334.53	14.48	
5600.00	5428.87	0.00	0.00	5455.87	162.34	162.34	181.11	2537.30	2360.89	14.38	
5700.00	5524.40	0.00	0.00	5551.40	165.24	165.24	181.10	2566.84	2387.25	14.29	
5800.00	5619.94	0.00	0.00	5646.94	168.14	168.14	181.09	2596.38	2413.60	14.21	
5900.00	5715.47	0.00	0.00	5742.47	171.04	171.04	181.07	2625.93	2439.96	14.12	
6000.00	5811.01	0.00	0.00	5838.01	173.94	173.94	181.06	2655.47	2466.32	14.04	
6100.00	5906.54	0.00	0.00	5933.54	176.84	176.84	181.05	2685.01	2492.67	13.96	
6200.00	6002.08	0.00	0.00	6029.08	179.74	179.74	181.04	2714.56	2519.03	13.88	
6300.00	6097.61	0.00	0.00	6124.61	182.65	182.65	181.03	2744.10	2545.39	13.81	
6400.00	6193.15	0.00	0.00	6220.15	185.55	185.55	181.18	2773.64	2571.73	13.74	
6500.00	6290.52	0.00	0.00	6317.52	188.50	188.50	189.51	2796.02	2590.93	13.63	
6600.00	6389.99	0.00	0.00	6416.99	191.53	191.53	247.81	2804.77	2596.49	13.47	
6700.00	6489.62	0.00	0.00	6516.62	194.55	194.55	331.22	2799.73	2588.29	13.24	
6800.00	6587.49	0.00	0.00	6614.49	197.52	197.52	341.17	2781.01	2566.52	12.97	
6900.00	6681.68	0.00	0.00	6708.68	200.38	200.38	343.93	2748.98	2531.61	12.65	
7000.00	6770.36	0.00	0.00	6797.36	203.08	203.08	344.63	2704.29	2484.25	12.29	
7100.00	6851.81	0.00	0.00	6878.81	205.55	205.55	344.22	2647.83	2425.36	11.90	
7200.00	6924.43	0.00	0.00	6951.43	207.76	207.76	342.83	2580.71	2356.12	11.49	
7300.00	6986.83	0.00	0.00	7013.83	209.65	209.65	340.23	2504.28	2277.89	11.06	
7400.00	7037.77	0.00	0.00	7064.77	211.20	211.20	335.74	2420.04	2192.22	10.62	
7500.00	7076.27	0.00	0.00	7103.27	212.37	212.37	327.75	2329.66	2100.72	10.18	
7600.00	7101.58	0.00	0.00	7128.58	213.14	213.14	312.35	2234.92	2005.25	9.73	
7700.00	7113.21	0.00	0.00	7140.21	213.49	213.49	282.84	2137.70	1907.71	9.29	
7800.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	2039.82	1809.75	8.87	
7900.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	1942.14	1711.64	8.43	
8000.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	1844.71	1613.77	7.99	
8100.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	1747.56	1516.10	7.55	
8200.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	1650.76	1418.66	7.11	
8300.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	1554.37	1321.64	6.68	
8400.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	1458.46	1224.96	6.25	
8500.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	1363.13	1128.83	5.82	
8600.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	1268.53	1033.31	5.39	
8700.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	1174.82	938.62	4.97	
8800.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	1082.24	844.18	4.55	
8900.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	991.10	750.53	4.12	
9000.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	901.85	658.72	3.71	
9100.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	815.09	569.31	3.32	
9200.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	731.71	481.28	2.92	
9300.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	653.02	397.90	2.56	
9400.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	580.93	319.19	2.22	SF(Lo)
9500.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	518.19	249.65	1.93	SF(Lo)
9600.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	468.57	192.77	1.70	SF(Lo)
9700.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	436.57	153.90	1.54	SF(Lo)
9800.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	426.18	139.97	1.49	SF(Med)
9900.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	438.94	152.41	1.53	SF(Lo)
10000.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	472.98	189.34	1.67	SF(Lo)
10100.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	524.16	244.96	1.88	SF(Lo)
10200.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	588.04	313.91	2.15	SF(Lo)
10300.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	660.93	391.33	2.45	SF(Lo)

5D Anti-Collision Report

Secondary Well: Tollgate Farms 29-12G6 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
10400.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	740.18	474.58	2.79	
10500.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	823.95	561.95	3.14	
10600.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	911.01	652.67	3.53	
10700.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	1000.49	744.03	3.90	
10800.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	1091.79	837.33	4.29	
10900.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	1184.51	932.03	4.69	
11000.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	1278.32	1027.72	5.10	
11100.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	1373.00	1124.13	5.52	
11200.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	1468.39	1220.36	5.92	
11300.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	1564.36	1317.16	6.33	
11400.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	1660.80	1414.41	6.74	
11500.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	1757.64	1511.94	7.15	
11600.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	1854.81	1609.77	7.57	
11700.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	1952.27	1707.85	7.99	
11800.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	2049.98	1806.15	8.41	
11900.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	2147.89	1904.63	8.83	
12000.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	2245.99	2003.25	9.25	
12100.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	2344.25	2102.01	9.68	
12200.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	2442.65	2200.89	10.10	
12300.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	2541.18	2299.86	10.53	
12400.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	2639.82	2398.92	10.96	
12500.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	2738.55	2498.05	11.39	
12600.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	2837.38	2597.25	11.82	
12700.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	2936.28	2696.51	12.25	
12800.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	3035.26	2795.80	12.68	
12900.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	3134.30	2894.99	13.10	
13000.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	3233.40	2994.19	13.52	
13100.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	3332.55	3093.45	13.94	
13200.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	3431.75	3192.75	14.36	
13300.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	3531.00	3292.09	14.78	
13400.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	3630.29	3391.47	15.20	
13500.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	3729.62	3490.88	15.62	
13600.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	3828.98	3590.31	16.04	
13700.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	3928.37	3689.77	16.46	
13800.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	4027.80	3789.26	16.89	
13900.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	4127.25	3888.77	17.31	
14000.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	4226.73	3988.30	17.73	
14100.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	4326.23	4087.86	18.15	
14200.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	4425.76	4187.43	18.57	
14300.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	4525.30	4287.03	18.99	
14400.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	4624.87	4386.64	19.41	
14500.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	4724.45	4486.26	19.83	
14600.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	4824.05	4585.90	20.26	
14700.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	4923.67	4685.56	20.68	
14800.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	5023.30	4785.22	21.10	
14900.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	5122.95	4884.90	21.52	
15000.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	5222.61	4984.59	21.94	
15100.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	5322.28	5084.29	22.36	
15200.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	5421.96	5184.00	22.78	
15300.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	5521.66	5283.72	23.21	
15400.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	5621.37	5383.44	23.63	
15500.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	5721.09	5483.18	24.05	
15600.00	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	5820.81	5582.92	24.47	
15644.54	7114.00	0.00	0.00	7141.00	213.51	213.51	270.00	5865.23	5627.35	24.66	

5D Anti-Collision Report

Secondary Well: Tigges 30-31 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
0.00	0.00	0.00	0.00	17.00	0.00	0.00	265.86	5656.02	5655.29	7768.23	
100.00	83.00	0.00	0.00	100.00	1.26	1.26	265.86	5655.99	5653.90	2700.91	
200.00	183.00	0.00	0.00	200.00	3.03	3.03	265.86	5655.99	5651.92	1386.58	
300.00	283.00	0.00	0.00	300.00	6.06	6.06	265.86	5655.99	5648.66	771.39	
400.00	383.00	0.00	0.00	400.00	9.10	9.10	265.86	5655.99	5645.58	543.14	
500.00	483.00	0.00	0.00	500.00	12.14	12.14	265.86	5655.99	5642.33	413.85	
600.00	583.00	0.00	0.00	600.00	15.17	15.17	265.86	5655.99	5639.07	334.28	
700.00	683.00	0.00	0.00	700.00	18.21	18.21	265.86	5655.99	5635.82	280.38	
800.00	783.00	0.00	0.00	800.00	21.25	21.25	265.86	5655.99	5632.57	241.44	
900.00	883.00	0.00	0.00	900.00	24.28	24.28	265.86	5655.99	5629.32	212.00	
1000.00	983.00	0.00	0.00	1000.00	27.32	27.32	265.86	5655.99	5626.06	188.96	
1100.00	1083.00	0.00	0.00	1100.00	30.36	30.36	265.86	5655.99	5622.81	170.44	
1200.00	1183.00	0.00	0.00	1200.00	33.40	33.40	265.86	5655.99	5619.56	155.22	
1300.00	1283.00	0.00	0.00	1300.00	36.43	36.43	265.86	5655.99	5616.30	142.50	
1400.00	1383.00	0.00	0.00	1400.00	39.47	39.47	265.86	5655.99	5613.05	131.70	
1500.00	1483.00	0.00	0.00	1500.00	42.51	42.51	265.86	5655.99	5609.80	122.43	
1600.00	1583.00	0.00	0.00	1600.00	45.54	45.54	265.86	5655.99	5606.54	114.38	
1700.00	1683.00	0.00	0.00	1700.00	48.58	48.58	265.86	5655.99	5603.29	107.32	
1800.00	1783.00	0.00	0.00	1800.00	51.62	51.62	265.86	5655.99	5600.04	101.08	
1900.00	1882.98	0.00	0.00	1899.98	54.65	54.65	187.86	5657.72	5598.52	95.57	
2000.00	1982.84	0.00	0.00	1999.84	57.69	57.69	187.87	5662.91	5600.48	90.72	
2100.00	2082.45	0.00	0.00	2099.45	60.71	60.71	187.88	5671.54	5605.88	86.38	
2200.00	2181.70	0.00	0.00	2198.70	63.72	63.72	187.90	5683.61	5614.74	82.53	
2300.00	2280.47	0.00	0.00	2297.47	66.72	66.72	187.92	5699.11	5627.03	79.07	
2400.00	2378.62	0.00	0.00	2395.62	69.71	69.71	187.94	5718.02	5642.75	75.97	
2500.00	2476.06	0.00	0.00	2493.06	72.66	72.66	187.98	5740.30	5661.87	73.19	
2600.00	2572.64	0.00	0.00	2589.64	75.60	75.60	188.01	5765.95	5684.37	70.68	
2700.00	2668.36	0.00	0.00	2685.36	78.50	78.50	188.02	5794.65	5709.95	68.41	
2800.00	2763.89	0.00	0.00	2780.89	81.41	81.41	187.98	5823.93	5736.11	66.31	
2900.00	2859.42	0.00	0.00	2876.42	84.31	84.31	187.94	5853.22	5762.27	64.35	
3000.00	2954.96	0.00	0.00	2971.96	87.21	87.21	187.90	5882.51	5788.42	62.52	
3100.00	3050.49	0.00	0.00	3067.49	90.11	90.11	187.86	5911.81	5814.58	60.81	
3200.00	3146.03	0.00	0.00	3163.03	93.01	93.01	187.82	5941.10	5840.74	59.20	
3300.00	3241.56	0.00	0.00	3258.56	95.91	95.91	187.79	5970.40	5866.89	57.68	
3400.00	3337.10	0.00	0.00	3354.10	98.81	98.81	187.75	5999.70	5893.05	56.26	
3500.00	3432.63	0.00	0.00	3449.63	101.71	101.71	187.71	6029.00	5919.20	54.91	
3600.00	3528.17	0.00	0.00	3545.17	104.62	104.62	187.67	6058.31	5945.36	53.64	
3700.00	3623.70	0.00	0.00	3640.70	107.52	107.52	187.63	6087.61	5971.52	52.44	
3800.00	3719.24	0.00	0.00	3736.24	110.42	110.42	187.60	6116.92	5997.67	51.29	
3900.00	3814.77	0.00	0.00	3831.77	113.32	113.32	187.56	6146.24	6023.83	50.21	
4000.00	3910.31	0.00	0.00	3927.31	116.22	116.22	187.53	6175.55	6049.99	49.18	
4100.00	4005.84	0.00	0.00	4022.84	119.12	119.12	187.49	6204.87	6076.15	48.20	
4200.00	4101.38	0.00	0.00	4118.38	122.02	122.02	187.45	6234.19	6102.31	47.27	
4300.00	4196.91	0.00	0.00	4213.91	124.92	124.92	187.42	6263.51	6128.47	46.38	
4400.00	4292.45	0.00	0.00	4309.45	127.83	127.83	187.38	6292.83	6154.62	45.53	
4500.00	4387.98	0.00	0.00	4404.98	130.73	130.73	187.35	6322.16	6180.79	44.72	
4600.00	4483.52	0.00	0.00	4500.52	133.63	133.63	187.32	6351.48	6206.95	43.94	
4700.00	4579.05	0.00	0.00	4596.05	136.53	136.53	187.28	6380.81	6233.10	43.20	
4800.00	4674.59	0.00	0.00	4691.59	139.43	139.43	187.25	6410.14	6259.25	42.48	
4900.00	4770.12	0.00	0.00	4787.12	142.33	142.33	187.22	6439.48	6285.40	41.79	
5000.00	4865.66	0.00	0.00	4882.66	145.23	145.23	187.18	6468.81	6311.55	41.13	
5100.00	4961.19	0.00	0.00	4978.19	148.13	148.13	187.15	6498.15	6337.71	40.50	
5200.00	5056.73	0.00	0.00	5073.73	151.04	151.04	187.12	6527.49	6363.86	39.89	
5300.00	5152.26	0.00	0.00	5169.26	153.94	153.94	187.09	6556.83	6390.02	39.31	
5400.00	5247.80	0.00	0.00	5264.80	156.84	156.84	187.05	6586.17	6416.17	38.74	
5500.00	5343.33	0.00	0.00	5360.33	159.74	159.74	187.02	6615.52	6442.33	38.20	
5600.00	5438.87	0.00	0.00	5455.87	162.64	162.64	186.99	6644.86	6468.49	37.68	
5700.00	5534.40	0.00	0.00	5551.40	165.54	165.54	186.96	6674.21	6494.65	37.17	

5D Anti-Collision Report

Secondary Well: Tigges 30-31 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
5800.00	5629.94	0.00	0.00	5646.94	168.44	168.44	186.93	6703.56	6520.82	36.68	
5900.00	5725.47	0.00	0.00	5742.47	171.34	171.34	186.90	6732.91	6546.98	36.21	
6000.00	5821.01	0.00	0.00	5838.01	174.25	174.25	186.87	6762.26	6573.14	35.76	
6100.00	5916.54	0.00	0.00	5933.54	177.15	177.15	186.84	6791.62	6599.31	35.32	
6200.00	6012.08	0.00	0.00	6029.08	180.05	180.05	186.81	6820.98	6625.48	34.89	
6300.00	6107.61	0.00	0.00	6124.61	182.95	182.95	186.78	6850.34	6651.65	34.48	
6400.00	6203.15	0.00	0.00	6220.15	185.85	185.85	186.91	6879.69	6677.81	34.08	
6500.00	6300.52	0.00	0.00	6317.52	188.81	188.81	195.06	6901.82	6696.75	33.66	
6600.00	6399.99	0.00	0.00	6416.99	191.83	191.83	253.33	6910.19	6701.91	33.18	
6700.00	6499.62	0.00	0.00	6516.62	194.85	194.85	336.85	6904.64	6693.19	32.65	
6800.00	6597.49	0.00	0.00	6614.49	197.83	197.83	347.06	6885.27	6670.76	32.10	
6900.00	6691.68	0.00	0.00	6708.68	200.69	200.69	350.24	6852.48	6635.05	31.52	
7000.00	6780.36	0.00	0.00	6797.36	203.38	203.38	351.60	6806.88	6586.75	30.92	
7100.00	6861.81	0.00	0.00	6878.81	205.85	205.85	352.14	6749.38	6526.80	30.32	
7200.00	6934.43	0.00	0.00	6951.43	208.06	208.06	352.16	6681.09	6456.34	29.73	
7300.00	6996.83	0.00	0.00	7013.83	209.95	209.95	351.67	6603.35	6376.75	29.14	
7400.00	7047.77	0.00	0.00	7064.77	211.50	211.50	350.48	6517.66	6289.56	28.57	
7500.00	7086.27	0.00	0.00	7103.27	212.67	212.67	347.94	6425.69	6196.47	28.03	
7600.00	7111.58	0.00	0.00	7128.58	213.44	213.44	341.45	6329.24	6099.27	27.52	
7700.00	7123.21	0.00	0.00	7140.21	213.79	213.79	309.78	6230.17	5999.82	27.05	
7800.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	6130.33	5899.93	26.61	
7900.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	6030.49	5800.08	26.17	
8000.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	5930.64	5700.19	25.73	
8100.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	5830.81	5600.31	25.30	
8200.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	5730.98	5500.43	24.86	
8300.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	5631.15	5400.54	24.42	
8400.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	5531.33	5300.69	23.98	
8500.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	5431.52	5200.80	23.54	
8600.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	5331.72	5100.90	23.10	
8700.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	5231.92	5001.04	22.66	
8800.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	5132.13	4901.21	22.22	
8900.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	5032.35	4801.37	21.79	
9000.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	4932.58	4701.48	21.34	
9100.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	4832.82	4601.59	20.90	
9200.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	4733.07	4501.72	20.46	
9300.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	4633.32	4401.87	20.02	
9400.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	4533.59	4302.04	19.58	
9500.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	4433.88	4202.17	19.14	
9600.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	4334.17	4102.32	18.69	
9700.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	4234.48	4002.48	18.25	
9800.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	4134.80	3902.65	17.81	
9900.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	4035.14	3802.83	17.37	
10000.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	3935.50	3702.99	16.93	
10100.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	3835.88	3603.13	16.48	
10200.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	3736.27	3503.29	16.04	
10300.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	3636.69	3403.46	15.59	
10400.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	3537.13	3303.65	15.15	
10500.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	3437.60	3203.82	14.70	
10600.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	3338.09	3103.96	14.26	
10700.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	3238.62	3004.12	13.81	
10800.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	3139.18	2904.30	13.37	
10900.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	3039.77	2804.49	12.92	
11000.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	2940.41	2704.70	12.47	
11100.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	2841.09	2604.87	12.03	
11200.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	2741.82	2505.05	11.58	
11300.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	2642.60	2405.25	11.13	
11400.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	2543.45	2305.48	10.69	
11500.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	2444.36	2205.73	10.24	

5D Anti-Collision Report

Secondary Well: Tigges 30-31 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
11600.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	2345.35	2105.96	9.80	
11700.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	2246.43	2006.14	9.35	
11800.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	2147.61	1906.31	8.90	
11900.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	2048.91	1806.52	8.45	
12000.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	1950.34	1706.77	8.01	
12100.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	1851.92	1607.07	7.56	
12200.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	1753.67	1507.44	7.12	
12300.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	1655.64	1407.87	6.68	
12400.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	1557.86	1307.85	6.23	
12500.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	1460.38	1207.66	5.78	
12600.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	1363.27	1107.53	5.33	
12700.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	1266.60	1007.47	4.89	
12800.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	1170.50	907.55	4.45	
12900.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	1075.10	807.83	4.02	
13000.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	980.63	708.29	3.60	
13100.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	887.36	608.87	3.19	
13200.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	795.73	508.78	2.77	
13300.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	706.38	409.72	2.38	SF(Lo)
13400.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	620.29	311.89	2.01	SF(Lo)
13500.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	539.01	215.02	1.66	SF(Lo)
13600.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	465.10	122.43	1.36	SF(Med)
13700.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	402.62	38.13	1.10	SF(Med)
13800.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	357.61	-27.56	0.93	SF(Hi)
13900.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	337.14	-61.02	0.85	SF(Hi)
14000.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	345.61	-49.81	0.87	SF(Hi)
14100.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	381.09	0.16	1.00	SF(Med)
14200.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	437.05	75.93	1.21	SF(Med)
14300.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	506.75	164.04	1.48	SF(Med)
14400.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	585.30	258.12	1.79	SF(Lo)
14500.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	669.59	355.25	2.13	SF(Lo)
14600.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	757.72	453.74	2.49	SF(Lo)
14700.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	848.48	552.44	2.87	
14800.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	941.12	652.03	3.26	
14900.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	1035.12	752.12	3.66	
15000.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	1130.16	851.96	4.06	
15100.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	1225.99	951.52	4.47	
15200.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	1322.43	1051.13	4.87	
15300.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	1419.37	1150.88	5.29	
15400.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	1516.70	1250.74	5.70	
15500.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	1614.36	1350.67	6.12	
15600.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	1712.30	1450.65	6.54	
15644.54	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	1755.99	1495.19	6.73	
Secondary Well: Etter 30-32 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
0.00	0.00	0.00	0.00	17.00	0.00	0.00	262.57	7077.75	7077.02	9720.81	
100.00	83.00	0.00	0.00	100.00	1.26	1.26	262.57	7077.73	7075.63	3376.27	
200.00	183.00	0.00	0.00	200.00	3.03	3.03	262.57	7077.73	7073.64	1732.83	
300.00	283.00	0.00	0.00	300.00	6.06	6.06	262.57	7077.73	7070.38	963.89	
400.00	383.00	0.00	0.00	400.00	9.10	9.10	262.57	7077.73	7067.30	678.63	
500.00	483.00	0.00	0.00	500.00	12.14	12.14	262.57	7077.73	7064.04	517.08	
600.00	583.00	0.00	0.00	600.00	15.17	15.17	262.57	7077.73	7060.78	417.66	
700.00	683.00	0.00	0.00	700.00	18.21	18.21	262.57	7077.73	7057.52	350.30	
800.00	783.00	0.00	0.00	800.00	21.25	21.25	262.57	7077.73	7054.26	301.66	
900.00	883.00	0.00	0.00	900.00	24.28	24.28	262.57	7077.73	7051.01	264.87	
1000.00	983.00	0.00	0.00	1000.00	27.32	27.32	262.57	7077.73	7047.75	236.08	
1100.00	1083.00	0.00	0.00	1100.00	30.36	30.36	262.57	7077.73	7044.49	212.94	

5D Anti-Collision Report

Secondary Well: Etter 30-32 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
1200.00	1183.00	0.00	0.00	1200.00	33.40	33.40	262.57	7077.73	7041.23	193.93	
1300.00	1283.00	0.00	0.00	1300.00	36.43	36.43	262.57	7077.73	7037.97	178.03	
1400.00	1383.00	0.00	0.00	1400.00	39.47	39.47	262.57	7077.73	7034.71	164.55	
1500.00	1483.00	0.00	0.00	1500.00	42.51	42.51	262.57	7077.73	7031.46	152.96	
1600.00	1583.00	0.00	0.00	1600.00	45.54	45.54	262.57	7077.73	7028.20	142.90	
1700.00	1683.00	0.00	0.00	1700.00	48.58	48.58	262.57	7077.73	7024.94	134.08	
1800.00	1783.00	0.00	0.00	1800.00	51.62	51.62	262.57	7077.73	7021.68	126.28	
1900.00	1882.98	0.00	0.00	1899.98	54.65	54.65	184.57	7079.47	7020.17	119.40	
2000.00	1982.84	0.00	0.00	1999.84	57.69	57.69	184.57	7084.68	7022.15	113.30	
2100.00	2082.45	0.00	0.00	2099.45	60.71	60.71	184.58	7093.37	7027.61	107.87	
2200.00	2181.70	0.00	0.00	2198.70	63.72	63.72	184.59	7105.52	7036.55	103.02	
2300.00	2280.47	0.00	0.00	2297.47	66.72	66.72	184.61	7121.11	7048.92	98.65	
2400.00	2378.62	0.00	0.00	2395.62	69.71	69.71	184.62	7140.13	7064.74	94.71	
2500.00	2476.06	0.00	0.00	2493.06	72.66	72.66	184.65	7162.56	7083.98	91.16	
2600.00	2572.64	0.00	0.00	2589.64	75.60	75.60	184.67	7188.36	7106.63	87.95	
2700.00	2668.36	0.00	0.00	2685.36	78.50	78.50	184.68	7217.23	7132.36	85.04	
2800.00	2763.89	0.00	0.00	2780.89	81.41	81.41	184.66	7246.69	7158.69	82.35	
2900.00	2859.42	0.00	0.00	2876.42	84.31	84.31	184.65	7276.15	7185.01	79.84	
3000.00	2954.96	0.00	0.00	2971.96	87.21	87.21	184.63	7305.61	7211.34	77.50	
3100.00	3050.49	0.00	0.00	3067.49	90.11	90.11	184.61	7335.07	7237.65	75.30	
3200.00	3146.03	0.00	0.00	3163.03	93.01	93.01	184.59	7364.53	7263.97	73.24	
3300.00	3241.56	0.00	0.00	3258.56	95.91	95.91	184.57	7393.99	7290.28	71.30	
3400.00	3337.10	0.00	0.00	3354.10	98.81	98.81	184.55	7423.45	7316.59	69.47	
3500.00	3432.63	0.00	0.00	3449.63	101.71	101.71	184.54	7452.92	7342.90	67.75	
3600.00	3528.17	0.00	0.00	3545.17	104.62	104.62	184.52	7482.38	7369.21	66.12	
3700.00	3623.70	0.00	0.00	3640.70	107.52	107.52	184.50	7511.84	7395.51	64.57	
3800.00	3719.24	0.00	0.00	3736.24	110.42	110.42	184.48	7541.31	7421.82	63.11	
3900.00	3814.77	0.00	0.00	3831.77	113.32	113.32	184.46	7570.77	7448.12	61.72	
4000.00	3910.31	0.00	0.00	3927.31	116.22	116.22	184.45	7600.24	7474.42	60.40	
4100.00	4005.84	0.00	0.00	4022.84	119.12	119.12	184.43	7629.71	7500.72	59.15	
4200.00	4101.38	0.00	0.00	4118.38	122.02	122.02	184.41	7659.18	7527.01	57.95	
4300.00	4196.91	0.00	0.00	4213.91	124.92	124.92	184.40	7688.64	7553.31	56.81	
4400.00	4292.45	0.00	0.00	4309.45	127.83	127.83	184.38	7718.11	7579.60	55.72	
4500.00	4387.98	0.00	0.00	4404.98	130.73	130.73	184.36	7747.58	7605.89	54.68	
4600.00	4483.52	0.00	0.00	4500.52	133.63	133.63	184.35	7777.05	7632.19	53.68	
4700.00	4579.05	0.00	0.00	4596.05	136.53	136.53	184.33	7806.52	7658.48	52.73	
4800.00	4674.59	0.00	0.00	4691.59	139.43	139.43	184.31	7835.99	7684.77	51.82	
4900.00	4770.12	0.00	0.00	4787.12	142.33	142.33	184.30	7865.47	7711.06	50.94	
5000.00	4865.66	0.00	0.00	4882.66	145.23	145.23	184.28	7894.94	7737.35	50.10	
5100.00	4961.19	0.00	0.00	4978.19	148.13	148.13	184.27	7924.41	7763.65	49.29	
5200.00	5056.73	0.00	0.00	5073.73	151.04	151.04	184.25	7953.89	7789.94	48.51	
5300.00	5152.26	0.00	0.00	5169.26	153.94	153.94	184.23	7983.36	7816.23	47.77	
5400.00	5247.80	0.00	0.00	5264.80	156.84	156.84	184.22	8012.83	7842.52	47.05	
5500.00	5343.33	0.00	0.00	5360.33	159.74	159.74	184.20	8042.31	7868.81	46.35	
5600.00	5438.87	0.00	0.00	5455.87	162.64	162.64	184.19	8071.79	7895.10	45.68	
5700.00	5534.40	0.00	0.00	5551.40	165.54	165.54	184.17	8101.26	7921.39	45.04	
5800.00	5629.94	0.00	0.00	5646.94	168.44	168.44	184.16	8130.74	7947.68	44.42	
5900.00	5725.47	0.00	0.00	5742.47	171.34	171.34	184.14	8160.22	7973.97	43.81	
6000.00	5821.01	0.00	0.00	5838.01	174.25	174.25	184.13	8189.69	8000.26	43.23	
6100.00	5916.54	0.00	0.00	5933.54	177.15	177.15	184.11	8219.17	8026.55	42.67	
6200.00	6012.08	0.00	0.00	6029.08	180.05	180.05	184.10	8248.65	8052.84	42.13	
6300.00	6107.61	0.00	0.00	6124.61	182.95	182.95	184.08	8278.13	8079.13	41.60	
6400.00	6203.15	0.00	0.00	6220.15	185.85	185.85	184.23	8307.60	8105.42	41.09	
6500.00	6300.52	0.00	0.00	6317.52	188.81	188.81	192.47	8329.88	8124.50	40.56	
6600.00	6399.99	0.00	0.00	6416.99	191.83	191.83	250.78	8338.43	8129.86	39.98	
6700.00	6499.62	0.00	0.00	6516.62	194.85	194.85	334.29	8333.11	8121.36	39.35	
6800.00	6597.49	0.00	0.00	6614.49	197.83	197.83	344.43	8314.01	8099.19	38.70	
6900.00	6691.68	0.00	0.00	6708.68	200.69	200.69	347.49	8281.51	8063.78	38.04	

5D Anti-Collision Report

Secondary Well: Etter 30-32 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
7000.00	6780.36	0.00	0.00	6797.36	203.38	203.38	348.64	8236.25	8015.81	37.36	
7100.00	6861.81	0.00	0.00	6878.81	205.85	205.85	348.88	8179.10	7956.21	36.70	
7200.00	6934.43	0.00	0.00	6951.43	208.06	208.06	348.43	8111.18	7886.13	36.04	
7300.00	6996.83	0.00	0.00	7013.83	209.95	209.95	347.24	8033.82	7806.89	35.40	
7400.00	7047.77	0.00	0.00	7064.77	211.50	211.50	344.91	7948.52	7720.06	34.79	
7500.00	7086.27	0.00	0.00	7103.27	212.67	212.67	340.34	7856.95	7627.32	34.22	
7600.00	7111.58	0.00	0.00	7128.58	213.44	213.44	329.64	7760.88	7530.48	33.68	
7700.00	7123.21	0.00	0.00	7140.21	213.79	213.79	294.47	7662.19	7431.42	33.20	
7800.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	7562.72	7331.92	32.77	
7900.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	7463.25	7232.41	32.33	
8000.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	7363.78	7132.83	31.88	
8100.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	7264.34	7033.27	31.44	
8200.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	7164.91	6933.75	31.00	
8300.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	7065.49	6834.27	30.56	
8400.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	6966.09	6734.81	30.12	
8500.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	6866.71	6635.29	29.67	
8600.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	6767.35	6535.76	29.22	
8700.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	6668.01	6436.27	28.77	
8800.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	6568.68	6336.82	28.33	
8900.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	6469.38	6237.38	27.88	
9000.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	6370.10	6137.92	27.44	
9100.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	6270.84	6038.49	26.99	
9200.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	6171.61	5939.04	26.54	
9300.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	6072.40	5839.63	26.09	
9400.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	5973.22	5740.18	25.63	
9500.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	5874.06	5640.76	25.18	
9600.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	5774.93	5541.36	24.72	
9700.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	5675.84	5442.00	24.27	
9800.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	5576.78	5342.65	23.82	
9900.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	5477.75	5243.27	23.36	
10000.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	5378.76	5143.93	22.90	
10100.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	5279.80	5044.61	22.45	
10200.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	5180.89	4945.32	21.99	
10300.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	5082.01	4846.07	21.54	
10400.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	4983.19	4746.80	21.08	
10500.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	4884.41	4647.55	20.62	
10600.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	4785.68	4548.34	20.16	
10700.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	4687.00	4449.11	19.70	
10800.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	4588.39	4349.93	19.24	
10900.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	4489.83	4250.78	18.78	
11000.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	4391.34	4151.68	18.32	
11100.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	4292.92	4052.57	17.86	
11200.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	4194.57	3953.49	17.40	
11300.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	4096.30	3854.46	16.94	
11400.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	3998.12	3755.49	16.48	
11500.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	3900.04	3656.57	16.02	
11600.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	3802.05	3557.72	15.56	
11700.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	3704.17	3458.89	15.10	
11800.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	3606.40	3359.97	14.63	
11900.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	3508.76	3261.08	14.17	
12000.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	3411.26	3162.22	13.70	
12100.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	3313.91	3063.41	13.23	
12200.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	3216.72	2964.65	12.76	
12300.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	3119.70	2865.98	12.30	
12400.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	3022.89	2767.42	11.83	
12500.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	2926.28	2668.97	11.37	
12600.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	2829.91	2570.66	10.92	
12700.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	2733.81	2472.50	10.46	

5D Anti-Collision Report

Secondary Well: Etter 30-32 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
12800.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	2637.99	2374.50	10.01	
12900.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	2542.49	2276.70	9.57	
13000.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	2447.35	2179.13	9.12	
13100.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	2352.62	2081.73	8.68	
13200.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	2258.34	1984.56	8.25	
13300.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	2164.58	1887.71	7.82	
13400.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	2071.40	1791.25	7.39	
13500.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	1978.88	1694.62	6.96	
13600.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	1887.13	1598.38	6.54	
13700.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	1796.26	1502.71	6.12	
13800.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	1706.41	1407.72	5.71	
13900.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	1617.75	1313.49	5.32	
14000.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	1530.49	1220.28	4.93	
14100.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	1444.88	1128.21	4.56	
14200.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	1361.23	1036.47	4.19	
14300.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	1279.94	946.64	3.84	
14400.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	1201.47	859.29	3.51	
14500.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	1126.42	774.37	3.20	
14600.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	1055.51	691.84	2.90	
14700.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	989.64	614.58	2.64	
14800.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	929.87	541.86	2.40	SF(Lo)
14900.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	877.47	477.39	2.19	SF(Lo)
15000.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	833.81	421.04	2.02	SF(Lo)
15100.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	800.32	377.12	1.89	SF(Lo)
15200.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	778.33	346.90	1.80	SF(Lo)
15300.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	768.82	331.70	1.76	SF(Lo)
15400.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	772.25	333.57	1.76	SF(Lo)
15500.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	788.45	352.36	1.81	SF(Lo)
15600.00	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	816.67	385.62	1.89	SF(Lo)
15644.54	7124.00	0.00	0.00	7141.00	213.82	213.82	270.00	832.80	405.21	1.95	SF(Lo)
Secondary Well: Firestien #30-45 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
0.00	0.00	0.00	0.00	25.00	0.00	0.00	249.37	3802.86	3802.14	5222.95	
100.00	75.00	0.00	0.00	100.00	1.14	1.14	249.37	3802.78	3800.81	1924.25	
200.00	175.00	0.00	0.00	200.00	2.78	2.78	249.37	3802.78	3798.94	989.09	
300.00	275.00	0.00	0.00	300.00	5.82	5.82	249.37	3802.78	3795.68	535.14	
400.00	375.00	0.00	0.00	400.00	8.86	8.86	249.37	3802.78	3792.41	366.79	
500.00	475.00	0.00	0.00	500.00	11.89	11.89	249.37	3802.78	3789.32	282.58	
600.00	575.00	0.00	0.00	600.00	14.93	14.93	249.37	3802.78	3786.06	227.46	
700.00	675.00	0.00	0.00	700.00	17.97	17.97	249.37	3802.78	3782.80	190.33	
800.00	775.00	0.00	0.00	800.00	21.01	21.01	249.37	3802.78	3779.54	163.62	
900.00	875.00	0.00	0.00	900.00	24.04	24.04	249.37	3802.78	3776.28	143.48	
1000.00	975.00	0.00	0.00	1000.00	27.08	27.08	249.37	3802.78	3773.02	127.76	
1100.00	1075.00	0.00	0.00	1100.00	30.12	30.12	249.37	3802.78	3769.76	115.15	
1200.00	1175.00	0.00	0.00	1200.00	33.15	33.15	249.37	3802.78	3766.49	104.80	
1300.00	1275.00	0.00	0.00	1300.00	36.19	36.19	249.37	3802.78	3763.23	96.15	
1400.00	1375.00	0.00	0.00	1400.00	39.23	39.23	249.37	3802.78	3759.97	88.83	
1500.00	1475.00	0.00	0.00	1500.00	42.26	42.26	249.37	3802.78	3756.71	82.54	
1600.00	1575.00	0.00	0.00	1600.00	45.30	45.30	249.37	3802.78	3753.45	77.08	
1700.00	1675.00	0.00	0.00	1700.00	48.34	48.34	249.37	3802.78	3750.19	72.30	
1800.00	1775.00	0.00	0.00	1800.00	51.37	51.37	249.37	3802.78	3746.93	68.08	
1900.00	1874.98	0.00	0.00	1899.98	54.41	54.41	171.36	3804.51	3745.40	64.37	
2000.00	1974.84	0.00	0.00	1999.84	57.44	57.44	171.36	3809.68	3747.34	61.11	
2100.00	2074.45	0.00	0.00	2099.45	60.47	60.47	171.35	3818.30	3752.74	58.24	
2200.00	2173.70	0.00	0.00	2198.70	63.48	63.48	171.35	3830.35	3761.55	55.67	
2300.00	2272.47	0.00	0.00	2297.47	66.48	66.48	171.33	3845.82	3773.81	53.41	

5D Anti-Collision Report

Secondary Well: Firestien #30-45 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
2400.00	2370.62	0.00	0.00	2395.62	69.46	69.46	171.32	3864.69	3789.48	51.39	
2500.00	2468.06	0.00	0.00	2493.06	72.42	72.42	171.30	3886.93	3808.54	49.58	
2600.00	2564.64	0.00	0.00	2589.64	75.35	75.35	171.28	3912.54	3830.97	47.97	
2700.00	2660.36	0.00	0.00	2685.36	78.26	78.26	171.29	3941.19	3856.47	46.52	
2800.00	2755.89	0.00	0.00	2780.89	81.16	81.16	171.35	3970.43	3882.57	45.19	
2900.00	2851.42	0.00	0.00	2876.42	84.06	84.06	171.42	3999.67	3908.67	43.95	
3000.00	2946.96	0.00	0.00	2971.96	86.96	86.96	171.48	4028.92	3934.77	42.79	
3100.00	3042.49	0.00	0.00	3067.49	89.87	89.87	171.54	4058.17	3960.87	41.71	
3200.00	3138.03	0.00	0.00	3163.03	92.77	92.77	171.60	4087.43	3986.97	40.69	
3300.00	3233.56	0.00	0.00	3258.56	95.67	95.67	171.66	4116.69	4013.07	39.73	
3400.00	3329.10	0.00	0.00	3354.10	98.57	98.57	171.72	4145.95	4039.18	38.83	
3500.00	3424.63	0.00	0.00	3449.63	101.47	101.47	171.78	4175.22	4065.28	37.98	
3600.00	3520.17	0.00	0.00	3545.17	104.37	104.37	171.84	4204.49	4091.39	37.17	
3700.00	3615.70	0.00	0.00	3640.70	107.27	107.27	171.89	4233.77	4117.49	36.41	
3800.00	3711.24	0.00	0.00	3736.24	110.17	110.17	171.95	4263.05	4143.60	35.69	
3900.00	3806.77	0.00	0.00	3831.77	113.08	113.08	172.00	4292.33	4169.72	35.01	
4000.00	3902.31	0.00	0.00	3927.31	115.98	115.98	172.06	4321.62	4195.83	34.36	
4100.00	3997.84	0.00	0.00	4022.84	118.88	118.88	172.11	4350.91	4221.94	33.74	
4200.00	4093.38	0.00	0.00	4118.38	121.78	121.78	172.17	4380.21	4248.06	33.15	
4300.00	4188.91	0.00	0.00	4213.91	124.68	124.68	172.22	4409.50	4274.18	32.58	
4400.00	4284.45	0.00	0.00	4309.45	127.58	127.58	172.27	4438.80	4300.30	32.05	
4500.00	4379.98	0.00	0.00	4404.98	130.48	130.48	172.32	4468.11	4326.42	31.53	
4600.00	4475.52	0.00	0.00	4500.52	133.39	133.39	172.37	4497.42	4352.54	31.04	
4700.00	4571.05	0.00	0.00	4596.05	136.29	136.29	172.42	4526.73	4378.67	30.57	
4800.00	4666.59	0.00	0.00	4691.59	139.19	139.19	172.47	4556.04	4404.79	30.12	
4900.00	4762.12	0.00	0.00	4787.12	142.09	142.09	172.52	4585.36	4430.93	29.69	
5000.00	4857.66	0.00	0.00	4882.66	144.99	144.99	172.57	4614.68	4457.06	29.28	
5100.00	4953.19	0.00	0.00	4978.19	147.89	147.89	172.61	4644.00	4483.19	28.88	
5200.00	5048.73	0.00	0.00	5073.73	150.79	150.79	172.66	4673.32	4509.33	28.50	
5300.00	5144.26	0.00	0.00	5169.26	153.69	153.69	172.70	4702.65	4535.47	28.13	
5400.00	5239.80	0.00	0.00	5264.80	156.60	156.60	172.75	4731.98	4561.61	27.78	
5500.00	5335.33	0.00	0.00	5360.33	159.50	159.50	172.80	4761.32	4587.76	27.43	
5600.00	5430.87	0.00	0.00	5455.87	162.40	162.40	172.84	4790.65	4613.91	27.10	
5700.00	5526.40	0.00	0.00	5551.40	165.30	165.30	172.88	4819.99	4640.06	26.79	
5800.00	5621.94	0.00	0.00	5646.94	168.20	168.20	172.93	4849.33	4666.21	26.48	
5900.00	5717.47	0.00	0.00	5742.47	171.10	171.10	172.97	4878.68	4692.36	26.19	
6000.00	5813.01	0.00	0.00	5838.01	174.00	174.00	173.01	4908.02	4718.52	25.90	
6100.00	5908.54	0.00	0.00	5933.54	176.90	176.90	173.05	4937.37	4744.68	25.62	
6200.00	6004.08	0.00	0.00	6029.08	179.81	179.81	173.09	4966.72	4770.84	25.36	
6300.00	6099.61	0.00	0.00	6124.61	182.71	182.71	173.13	4996.08	4797.00	25.10	
6400.00	6195.15	0.00	0.00	6220.15	185.61	185.61	173.15	5025.42	4823.16	24.85	
6500.00	6292.52	0.00	0.00	6317.52	188.56	188.56	181.97	5047.82	4842.38	24.57	
6600.00	6391.99	0.00	0.00	6416.99	191.59	191.59	240.42	5056.96	4848.32	24.24	
6700.00	6491.62	0.00	0.00	6516.62	194.61	194.61	323.83	5052.68	4840.87	23.85	
6800.00	6589.49	0.00	0.00	6614.49	197.58	197.58	333.66	5035.05	4820.18	23.43	
6900.00	6683.68	0.00	0.00	6708.68	200.44	200.44	336.15	5004.46	4786.68	22.98	
7000.00	6772.36	0.00	0.00	6797.36	203.14	203.14	336.41	4961.52	4741.03	22.50	
7100.00	6853.81	0.00	0.00	6878.81	205.61	205.61	335.37	4907.10	4684.14	22.01	
7200.00	6926.43	0.00	0.00	6951.43	207.82	207.82	333.10	4842.30	4617.14	21.51	
7300.00	6988.83	0.00	0.00	7013.83	209.71	209.71	329.33	4768.41	4541.36	21.00	
7400.00	7039.77	0.00	0.00	7064.77	211.26	211.26	323.37	4686.91	4458.24	20.50	
7500.00	7078.27	0.00	0.00	7103.27	212.43	212.43	313.97	4599.41	4369.46	20.00	
7600.00	7103.58	0.00	0.00	7128.58	213.20	213.20	299.22	4507.66	4276.78	19.52	
7700.00	7115.21	0.00	0.00	7140.21	213.55	213.55	278.05	4413.46	4182.05	19.07	
7800.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	4318.61	4086.91	18.64	
7900.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	4223.97	3991.94	18.20	
8000.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	4129.58	3897.22	17.77	
8100.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	4035.47	3802.72	17.34	

5D Anti-Collision Report

Secondary Well: Firestien #30-45 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
8200.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	3941.64	3708.35	16.90	
8300.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	3848.13	3614.29	16.46	
8400.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	3754.94	3520.53	16.02	
8500.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	3662.12	3426.85	15.57	
8600.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	3569.69	3333.31	15.10	
8700.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	3477.67	3240.17	14.64	
8800.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	3386.11	3147.27	14.18	
8900.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	3295.04	3054.83	13.72	
9000.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	3204.50	2962.89	13.26	
9100.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	3114.54	2871.46	12.81	
9200.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	3025.21	2780.48	12.36	
9300.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	2936.57	2690.15	11.92	
9400.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	2848.68	2600.53	11.48	
9500.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	2761.61	2511.71	11.05	
9600.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	2675.45	2423.76	10.63	
9700.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	2590.29	2336.41	10.20	
9800.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	2506.22	2249.46	9.76	
9900.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	2423.36	2163.63	9.33	
10000.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	2341.84	2079.09	8.91	
10100.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	2261.80	1995.98	8.51	
10200.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	2183.41	1914.49	8.12	
10300.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	2106.85	1834.84	7.75	
10400.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	2032.33	1756.70	7.37	
10500.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	1960.07	1680.19	7.00	
10600.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	1890.35	1606.26	6.65	
10700.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	1823.45	1535.21	6.33	
10800.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	1759.69	1467.44	6.02	
10900.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	1699.42	1401.92	5.71	
11000.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	1643.04	1340.37	5.43	
11100.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	1590.95	1283.46	5.17	
11200.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	1543.58	1230.95	4.94	
11300.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	1501.39	1183.18	4.72	
11400.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	1464.83	1141.94	4.54	
11500.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	1434.31	1106.45	4.37	
11600.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	1410.25	1077.67	4.24	
11700.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	1392.96	1057.03	4.15	
11800.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	1382.70	1042.51	4.06	
11900.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	1379.64	1036.91	4.03	
12000.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	1383.81	1038.67	4.01	
12100.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	1395.16	1048.39	4.02	
12200.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	1413.51	1066.42	4.07	
12300.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	1438.59	1090.71	4.14	
12400.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	1470.06	1122.93	4.23	
12500.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	1507.52	1161.26	4.35	
12600.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	1550.54	1205.30	4.49	
12700.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	1598.66	1255.48	4.66	
12800.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	1651.43	1310.22	4.84	
12900.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	1708.44	1368.97	5.03	
13000.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	1769.27	1432.15	5.25	
13100.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	1833.53	1499.24	5.48	
13200.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	1900.89	1568.70	5.72	
13300.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	1971.02	1640.76	5.97	
13400.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	2043.64	1715.58	6.23	
13500.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	2118.49	1792.82	6.50	
13600.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	2195.34	1872.19	6.79	
13700.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	2274.00	1952.95	7.08	
13800.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	2354.27	2034.91	7.37	
13900.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	2436.01	2118.41	7.67	

5D Anti-Collision Report

Secondary Well: Firestien #30-45 (s)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
14000.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	2519.06	2203.28	7.98	
14100.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	2603.31	2289.37	8.29	
14200.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	2688.63	2376.54	8.61	
14300.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	2774.94	2464.69	8.94	
14400.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	2862.14	2553.71	9.28	
14500.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	2950.15	2643.38	9.62	
14600.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	3038.90	2733.33	9.94	
14700.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	3128.33	2823.95	10.28	
14800.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	3218.38	2915.19	10.62	
14900.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	3309.00	3006.98	10.96	
15000.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	3400.15	3099.26	11.30	
15100.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	3491.79	3192.01	11.65	
15200.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	3583.87	3285.18	12.00	
15300.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	3676.36	3378.75	12.35	
15400.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	3769.24	3472.68	12.71	
15500.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	3862.48	3566.94	13.07	
15600.00	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	3956.04	3661.50	13.43	
15644.54	7116.00	0.00	0.00	7141.00	213.57	213.57	270.00	3997.82	3703.72	13.59	

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	180.35	20.04	19.31	27.33	CC (Med)
100.00	100.00	0.00	0.00	100.00	0.11	0.11	180.35	20.04	19.08	21.01	CC (Med)
200.00	200.00	0.00	0.00	200.00	0.34	0.34	180.35	20.04	18.64	14.28	CC (Med)
300.00	300.00	0.00	0.00	300.00	0.56	0.56	180.35	20.04	18.19	10.81	CC (Med)
400.00	400.00	0.00	0.00	400.00	0.79	0.79	180.35	20.04	17.74	8.70	CC (Med)
500.00	500.00	0.00	0.00	500.00	1.01	1.01	180.35	20.04	17.29	7.28	CC (Med)
600.00	600.00	0.00	0.00	600.00	1.24	1.24	180.35	20.04	16.84	6.26	CC (Med)
700.00	700.00	0.00	0.00	700.00	1.46	1.46	180.35	20.04	16.39	5.49	CC (Med)
800.00	800.00	0.00	0.00	800.00	1.69	1.69	180.35	20.04	15.94	4.89	CC (Med)
900.00	900.00	0.00	0.00	900.00	1.91	1.91	180.35	20.04	15.49	4.40	CC (Med)
1000.00	1000.00	0.00	0.00	1000.00	2.14	2.14	180.35	20.04	15.04	4.01	CC (Med)
1100.00	1100.00	0.00	0.00	1100.00	2.36	2.36	180.35	20.04	14.59	3.68	CC (Med)
1200.00	1200.00	0.00	0.00	1200.00	2.58	2.58	180.35	20.04	14.14	3.40	CC (Med)
1300.00	1300.00	0.00	0.00	1300.00	2.81	2.81	180.35	20.04	13.69	3.16	CC (Med)
1400.00	1400.00	0.00	0.00	1400.00	3.03	3.03	180.35	20.04	13.24	2.95	CC (Med)
1500.00	1500.00	0.00	0.00	1500.00	3.26	3.26	180.35	20.04	12.79	2.76	CC (Med)
1600.00	1600.00	0.00	0.00	1600.00	3.48	3.48	180.35	20.04	12.34	2.60	CC (Med)
1700.00	1700.00	0.00	0.00	1700.00	3.71	3.71	180.35	20.04	11.89	2.46	SF(Lo); CC (Med)
1800.00	1800.00	0.00	0.00	1800.00	3.93	3.93	180.35	20.04	11.44	2.33	SF(Lo); CC (Med)
1900.00	1899.98	0.00	0.00	1899.98	4.16	4.16	107.11	20.48	11.48	2.27	SF(Lo); CC (Med)
2000.00	1999.84	0.00	0.00	1999.84	4.38	4.38	119.85	22.58	13.13	2.39	SF(Lo); CC (Med)
2100.00	2100.02	2.00	85.04	2100.00	4.60	4.59	132.61	26.92	17.05	2.73	CC (Med)
2200.00	2200.44	4.01	85.04	2200.28	4.80	4.79	140.94	32.49	22.19	3.16	CC (Med)
2300.00	2301.10	6.02	85.04	2300.55	5.02	4.98	146.23	38.78	28.08	3.62	CC (Lo)
2400.00	2402.00	8.04	85.04	2400.68	5.25	5.17	149.53	45.52	34.42	4.10	CC (Lo)
2500.00	2503.13	10.06	85.04	2500.55	5.50	5.37	151.56	52.56	41.00	4.55	CC (Lo)
2600.00	2604.50	12.09	85.04	2600.02	5.78	5.56	152.72	59.84	47.79	4.97	CC (Lo)
2700.00	2706.11	14.12	85.04	2698.98	6.10	5.75	153.19	67.04	54.49	5.34	
2800.00	2808.04	16.16	85.04	2797.37	6.46	5.95	152.25	71.84	58.75	5.49	
2900.00	2910.08	18.20	85.04	2894.85	6.89	6.14	149.79	73.79	60.05	5.37	
3000.00	3010.53	18.74	85.04	2990.01	7.36	6.37	146.23	73.87	59.33	5.08	
3100.00	3110.42	18.74	85.04	3084.61	7.87	6.62	142.64	74.15	58.73	4.81	
3200.00	3210.31	18.74	85.04	3179.21	8.40	6.87	139.10	74.72	58.32	4.56	

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
3300.00	3310.20	18.74	85.04	3273.81	8.95	7.13	135.62	75.56	58.08	4.32	
3400.00	3410.09	18.74	85.04	3368.41	9.51	7.39	132.23	76.68	58.03	4.11	
3500.00	3509.99	18.74	85.04	3463.01	10.10	7.66	128.94	78.06	58.19	3.93	
3600.00	3609.88	18.74	85.04	3557.61	10.69	7.93	125.79	79.69	58.54	3.77	
3700.00	3709.77	18.74	85.04	3652.21	11.29	8.20	122.76	81.55	59.09	3.63	
3800.00	3809.66	18.74	85.04	3746.80	11.91	8.48	119.88	83.63	59.84	3.52	
3900.00	3909.55	18.74	85.04	3841.40	12.53	8.76	117.15	85.90	60.76	3.42	
4000.00	4009.45	18.74	85.04	3936.00	13.15	9.04	114.56	88.37	61.87	3.34	
4100.00	4109.34	18.74	85.04	4030.60	13.79	9.33	112.11	91.00	63.15	3.27	
4200.00	4209.23	18.74	85.04	4125.20	14.42	9.62	109.81	93.79	64.57	3.21	
4300.00	4309.12	18.74	85.04	4219.80	15.06	9.91	107.64	96.73	66.16	3.16	
4400.00	4409.01	18.74	85.04	4314.40	15.71	10.20	105.61	99.79	67.90	3.13	
4500.00	4508.91	18.74	85.04	4409.00	16.36	10.49	103.69	102.97	69.73	3.10	
4600.00	4608.80	18.74	85.04	4503.60	17.01	10.79	101.90	106.26	71.69	3.07	
4700.00	4708.69	18.74	85.04	4598.20	17.66	11.08	100.21	109.65	73.78	3.06	
4800.00	4808.58	18.74	85.04	4692.80	18.32	11.38	98.63	113.13	75.96	3.04	
4900.00	4908.47	18.74	85.04	4787.39	18.97	11.68	97.14	116.69	78.20	3.03	
5000.00	5008.37	18.74	85.04	4881.99	19.63	11.98	95.74	120.32	80.54	3.02	
5100.00	5108.26	18.74	85.04	4976.59	20.29	12.28	94.42	124.02	82.97	3.02	
5200.00	5208.15	18.74	85.04	5071.19	20.96	12.58	93.18	127.78	85.47	3.02	
5300.00	5308.04	18.74	85.04	5165.79	21.62	12.88	92.01	131.60	88.05	3.02	
5400.00	5407.93	18.74	85.04	5260.39	22.28	13.18	90.91	135.47	90.70	3.03	
5500.00	5507.83	18.74	85.04	5354.99	22.95	13.49	89.86	139.39	93.40	3.03	
5600.00	5607.72	18.74	85.04	5449.59	23.62	13.79	88.88	143.35	96.14	3.04	
5700.00	5707.61	18.74	85.04	5544.19	24.29	14.10	87.95	147.35	98.91	3.04	
5800.00	5807.50	18.74	85.04	5638.79	24.95	14.40	87.07	151.39	101.73	3.05	
5900.00	5907.39	18.74	85.04	5733.38	25.62	14.71	86.23	155.46	104.60	3.06	
6000.00	6007.29	18.74	85.04	5827.98	26.30	15.02	85.44	159.56	107.50	3.07	
6100.00	6107.18	18.74	85.04	5922.58	26.97	15.33	84.69	163.69	110.44	3.07	
6200.00	6207.22	18.53	85.02	6017.32	27.63	15.64	83.97	167.85	113.42	3.08	
6300.00	6312.99	10.08	83.53	6119.72	28.13	15.93	85.91	170.17	114.40	3.05	
6400.00	6415.12	1.97	70.18	6221.21	28.35	15.88	92.73	170.53	113.48	2.99	
6500.00	6512.51	5.93	272.10	6318.46	28.41	15.55	109.36	173.34	116.13	3.03	
6600.00	6606.71	13.45	269.03	6411.25	28.34	14.98	175.61	179.84	123.49	3.19	
6700.00	6698.12	20.76	268.17	6498.56	28.19	14.21	266.30	189.22	134.54	3.46	
6800.00	6787.12	27.87	267.75	6579.61	27.98	13.31	282.75	200.54	148.04	3.82	
6900.00	6874.04	34.83	267.49	6653.80	27.77	12.32	291.24	212.84	162.41	4.22	
7000.00	6959.21	41.64	267.32	6720.66	27.59	11.31	297.06	225.31	176.92	4.66	
7100.00	7042.91	48.33	267.19	6779.82	27.47	10.37	301.38	237.27	190.75	5.10	
7200.00	7125.40	54.93	267.08	6830.99	27.44	9.58	304.64	248.18	203.22	5.52	
7300.00	7206.92	61.45	266.99	6873.93	27.51	9.05	307.07	257.63	213.73	5.87	
7400.00	7287.69	67.92	266.92	6908.45	27.73	8.85	308.83	265.30	221.77	6.09	
7500.00	7367.92	74.33	266.85	6934.39	28.11	9.05	310.01	270.97	227.19	6.19	
7600.00	7447.79	80.72	266.78	6951.63	28.62	9.60	310.66	274.50	229.93	6.16	
7700.00	7527.51	87.10	266.72	6960.08	29.25	10.44	310.83	275.79	229.83	6.00	
7800.00	7618.29	90.00	266.69	6961.00	30.13	11.15	310.73	275.84	228.16	5.79	
7900.00	7718.29	90.00	266.69	6961.00	31.31	11.64	310.69	276.11	226.55	5.57	
8000.00	7818.29	90.00	266.69	6961.00	32.68	12.16	310.64	276.38	224.64	5.34	
8100.00	7918.29	90.00	266.69	6961.00	34.22	12.70	310.59	276.65	222.44	5.10	
8200.00	8018.28	90.00	266.69	6961.00	35.92	13.25	310.54	276.92	220.01	4.87	
8300.00	8118.28	90.00	266.69	6961.00	37.75	13.83	310.49	277.19	217.39	4.64	
8400.00	8218.28	90.00	266.69	6961.00	39.69	14.42	310.45	277.46	214.60	4.41	
8500.00	8318.28	90.00	266.69	6961.00	41.73	15.02	310.40	277.73	211.67	4.20	
8600.00	8418.28	90.00	266.69	6961.00	43.86	15.63	310.35	278.00	208.61	4.01	
8700.00	8518.28	90.00	266.69	6961.00	46.05	16.25	310.30	278.27	205.45	3.82	
8800.00	8618.28	90.00	266.69	6961.00	48.31	16.89	310.26	278.54	202.17	3.65	
8900.00	8718.28	90.00	266.69	6961.00	50.62	17.53	310.21	278.81	198.82	3.49	
9000.00	8818.28	90.00	266.69	6961.00	52.98	18.17	310.16	279.09	195.40	3.34	

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
9100.00	8918.28	90.00	266.69	6961.00	55.38	18.83	310.12	279.36	191.93	3.20	
9200.00	9018.28	90.00	266.69	6961.00	57.81	19.48	310.07	279.63	188.42	3.07	
9300.00	9118.28	90.00	266.69	6961.00	60.28	20.15	310.02	279.90	184.85	2.94	
9400.00	9218.28	90.00	266.69	6961.00	62.78	20.82	309.98	280.17	181.19	2.83	
9500.00	9318.28	90.00	266.69	6961.00	65.30	21.49	309.93	280.45	177.46	2.72	
9600.00	9418.28	90.00	266.69	6961.00	67.84	22.17	309.88	280.72	173.67	2.62	
9700.00	9518.27	90.00	266.69	6961.00	70.40	22.85	309.84	280.99	169.85	2.53	
9800.00	9618.27	90.00	266.69	6961.00	72.98	23.53	309.79	281.27	165.99	2.44	SF(Lo)
9900.00	9718.27	90.00	266.69	6961.00	75.57	24.22	309.74	281.54	162.11	2.36	SF(Lo)
10000.00	9818.27	90.00	266.69	6961.00	78.18	24.91	309.70	281.81	158.21	2.28	SF(Lo)
10100.00	9918.27	90.00	266.69	6961.00	80.80	25.60	309.65	282.09	154.27	2.21	SF(Lo)
10200.00	10018.27	90.00	266.69	6961.00	83.43	26.29	309.60	282.36	150.31	2.14	SF(Lo)
10300.00	10118.27	90.00	266.69	6961.00	86.07	26.99	309.56	282.63	146.33	2.07	SF(Lo)
10400.00	10218.27	90.00	266.69	6961.00	88.73	27.68	309.51	282.91	142.33	2.01	SF(Lo)
10500.00	10318.27	90.00	266.69	6961.00	91.39	28.38	309.47	283.18	138.32	1.95	SF(Lo)
10600.00	10418.27	90.00	266.69	6961.00	94.05	29.09	309.42	283.46	134.29	1.90	SF(Lo)
10700.00	10518.27	90.00	266.69	6961.00	96.73	29.79	309.38	283.73	130.24	1.85	SF(Lo)
10800.00	10618.27	90.00	266.69	6961.00	99.41	30.49	309.33	284.01	126.18	1.80	SF(Lo)
10900.00	10718.27	90.00	266.69	6961.00	102.10	31.20	309.28	284.28	122.11	1.75	SF(Lo)
11000.00	10818.27	90.00	266.69	6961.00	104.80	31.90	309.24	284.56	118.02	1.71	SF(Lo)
11100.00	10918.27	90.00	266.69	6961.00	107.50	32.61	309.19	284.83	113.92	1.67	SF(Lo)
11200.00	11018.27	90.00	266.69	6961.00	110.20	33.32	309.15	285.11	109.81	1.63	SF(Lo)
11300.00	11118.26	90.00	266.69	6961.00	112.91	34.03	309.10	285.38	105.69	1.59	SF(Lo)
11400.00	11218.26	90.00	266.69	6961.00	115.62	34.74	309.06	285.66	101.55	1.55	SF(Lo)
11500.00	11318.26	90.00	266.69	6961.00	118.34	35.45	309.01	285.94	97.41	1.52	SF(Lo)
11600.00	11418.26	90.00	266.69	6961.00	121.06	36.17	308.97	286.21	93.26	1.48	SF(Med)
11700.00	11518.26	90.00	266.69	6961.00	123.79	36.88	308.92	286.49	89.09	1.45	SF(Med)
11800.00	11618.26	90.00	266.69	6961.00	126.52	37.60	308.88	286.76	84.92	1.42	SF(Med)
11900.00	11718.26	90.00	266.69	6961.00	129.25	38.31	308.84	287.04	80.74	1.39	SF(Med)
12000.00	11818.26	90.00	266.69	6961.00	131.98	39.03	308.79	287.32	76.55	1.36	SF(Med)
12100.00	11918.26	90.00	266.69	6961.00	134.72	39.74	308.75	287.60	72.35	1.34	SF(Med)
12200.00	12018.26	90.00	266.69	6961.00	137.45	40.46	308.70	287.87	68.14	1.31	SF(Med)
12300.00	12118.26	90.00	266.69	6961.00	140.20	41.18	308.66	288.15	63.93	1.29	SF(Med)
12400.00	12218.26	90.00	266.69	6961.00	142.94	41.90	308.61	288.43	59.71	1.26	SF(Med)
12500.00	12318.26	90.00	266.69	6961.00	145.68	42.61	308.57	288.71	55.48	1.24	SF(Med)
12600.00	12418.26	90.00	266.69	6961.00	148.43	43.33	308.53	288.98	51.24	1.22	SF(Med)
12700.00	12518.26	90.00	266.69	6961.00	151.18	44.05	308.48	289.26	47.00	1.19	SF(Med)
12800.00	12618.26	90.00	266.69	6961.00	153.93	44.77	308.44	289.54	42.75	1.17	SF(Med)
12900.00	12718.25	90.00	266.69	6961.00	156.68	45.49	308.39	289.82	38.49	1.15	SF(Med)
13000.00	12818.25	90.00	266.69	6961.00	159.44	46.21	308.35	290.10	34.22	1.13	SF(Med)
13100.00	12918.25	90.00	266.69	6961.00	162.19	46.94	308.31	290.38	29.95	1.12	SF(Med)
13200.00	13018.25	90.00	266.69	6961.00	164.95	47.66	308.26	290.66	25.68	1.10	SF(Med)
13300.00	13118.25	90.00	266.69	6961.00	167.71	48.38	308.22	290.94	21.39	1.08	SF(Med)
13400.00	13218.25	90.00	266.69	6961.00	170.47	49.10	308.18	291.21	17.10	1.06	SF(Med)
13500.00	13318.25	90.00	266.69	6961.00	173.23	49.82	308.13	291.49	12.81	1.05	SF(Med)
13600.00	13418.25	90.00	266.69	6961.00	175.99	50.55	308.09	291.77	8.50	1.03	SF(Med)
13700.00	13518.25	90.00	266.69	6961.00	178.76	51.27	308.05	292.05	4.20	1.01	SF(Med)
13800.00	13618.25	90.00	266.69	6961.00	181.52	51.99	308.01	292.33	-0.12	1.00	SF(Hi)
13900.00	13718.25	90.00	266.69	6961.00	184.28	52.72	307.96	292.61	-4.44	0.99	SF(Hi)
14000.00	13818.25	90.00	266.69	6961.00	187.05	53.44	307.92	292.89	-8.76	0.97	SF(Hi)
14100.00	13918.25	90.00	266.69	6961.00	189.82	54.17	307.88	293.17	-13.09	0.96	SF(Hi)
14200.00	14018.25	90.00	266.69	6961.00	192.59	54.89	307.83	293.46	-17.43	0.94	SF(Hi)
14300.00	14118.25	90.00	266.69	6961.00	195.36	55.62	307.79	293.74	-21.77	0.93	SF(Hi)
14400.00	14218.25	90.00	266.69	6961.00	198.12	56.34	307.75	294.02	-26.12	0.92	SF(Hi)
14500.00	14318.24	90.00	266.69	6961.00	200.90	57.07	307.71	294.30	-30.47	0.91	SF(Hi)
14600.00	14418.24	90.00	266.69	6961.00	203.67	57.79	307.66	294.58	-34.82	0.89	SF(Hi)
14700.00	14518.24	90.00	266.69	6961.00	206.44	58.52	307.62	294.86	-39.19	0.88	SF(Hi)
14800.00	14618.24	90.00	266.69	6961.00	209.21	59.24	307.58	295.14	-43.55	0.87	SF(Hi)

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
14900.00	14718.24	90.00	266.69	6961.00	211.98	59.97	307.54	295.42	-47.92	0.86	SF(Hi)
15000.00	14818.24	90.00	266.69	6961.00	214.76	60.70	307.50	295.71	-52.30	0.85	SF(Hi)
15100.00	14918.24	90.00	266.69	6961.00	217.53	61.42	307.45	295.99	-56.68	0.84	SF(Hi)
15200.00	15018.24	90.00	266.69	6961.00	220.31	62.15	307.41	296.27	-61.07	0.83	SF(Hi)
15300.00	15118.24	90.00	266.69	6961.00	223.08	62.88	307.37	296.55	-65.46	0.82	SF(Hi)
15400.00	15218.24	90.00	266.69	6961.00	225.86	63.60	307.33	296.84	-69.86	0.81	SF(Hi)
15500.00	15318.24	90.00	266.69	6961.00	228.64	64.33	307.29	297.12	-74.26	0.80	SF(Hi)
15600.00	15418.24	90.00	266.69	6961.00	231.41	65.06	307.25	297.40	-78.66	0.79	SF(Hi)
15644.54	15462.78	90.00	266.69	6961.00	232.65	65.38	307.23	297.53	-80.63	0.79	SF(Hi)
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	179.95	40.07	39.34	54.65	CC (Lo)
100.00	100.00	0.00	0.00	100.00	0.11	0.11	179.95	40.07	39.12	42.01	CC (Lo)
200.00	200.00	0.00	0.00	200.00	0.34	0.34	179.95	40.07	38.67	28.55	CC (Lo)
300.00	300.00	0.00	0.00	300.00	0.56	0.56	179.95	40.07	38.22	21.63	CC (Lo)
400.00	400.00	0.00	0.00	400.00	0.79	0.79	179.95	40.07	37.77	17.40	CC (Lo)
500.00	500.00	0.00	0.00	500.00	1.01	1.01	179.95	40.07	37.32	14.56	CC (Lo)
600.00	600.00	0.00	0.00	600.00	1.24	1.24	179.95	40.07	36.87	12.52	CC (Lo)
700.00	700.00	0.00	0.00	700.00	1.46	1.46	179.95	40.07	36.42	10.98	CC (Lo)
800.00	800.00	0.00	0.00	800.00	1.69	1.69	179.95	40.07	35.97	9.77	CC (Lo)
900.00	900.00	0.00	0.00	900.00	1.91	1.91	179.95	40.07	35.52	8.81	CC (Lo)
1000.00	1000.00	0.00	0.00	1000.00	2.14	2.14	179.95	40.07	35.07	8.01	CC (Lo)
1100.00	1100.00	0.00	0.00	1100.00	2.36	2.36	179.95	40.07	34.62	7.35	CC (Lo)
1200.00	1200.00	0.00	0.00	1200.00	2.58	2.58	179.95	40.07	34.18	6.79	CC (Lo)
1300.00	1300.00	0.00	0.00	1300.00	2.81	2.81	179.95	40.07	33.73	6.31	CC (Lo)
1400.00	1400.00	0.00	0.00	1400.00	3.03	3.03	179.95	40.07	33.28	5.89	CC (Lo)
1500.00	1500.00	0.00	0.00	1500.00	3.26	3.26	179.95	40.07	32.83	5.53	CC (Lo)
1600.00	1600.00	0.00	0.00	1600.00	3.48	3.48	179.95	40.07	32.38	5.21	CC (Lo)
1700.00	1700.00	0.00	0.00	1700.00	3.71	3.71	179.95	40.07	31.93	4.92	CC (Lo)
1800.00	1799.89	2.00	92.75	1799.87	3.92	3.92	177.47	40.20	31.62	4.69	CC (Lo)
1900.00	1899.64	3.99	92.75	1899.48	4.12	4.11	94.60	41.11	32.13	4.58	CC (Lo)
2000.00	1999.25	5.98	92.75	1998.70	4.33	4.30	90.12	43.20	33.80	4.59	CC (Lo)
2100.00	2098.71	7.97	92.75	2097.42	4.56	4.49	86.29	46.39	36.55	4.71	CC (Lo)
2200.00	2198.01	9.96	92.75	2195.51	4.81	4.68	83.22	50.61	40.33	4.92	CC (Lo)
2300.00	2297.15	11.94	92.75	2292.84	5.09	4.87	80.88	55.79	45.03	5.18	CC (Lo)
2400.00	2396.11	13.92	92.75	2389.28	5.40	5.07	79.19	61.86	50.55	5.47	CC (Lo)
2500.00	2494.89	15.90	92.75	2484.73	5.77	5.26	78.04	68.77	56.84	5.77	
2600.00	2594.05	16.91	92.75	2579.73	6.19	5.48	77.59	76.32	63.66	6.03	
2700.00	2693.77	16.91	92.75	2675.14	6.65	5.71	79.14	83.41	69.87	6.16	
2800.00	2793.48	16.91	92.75	2770.54	7.13	5.96	80.89	90.46	75.98	6.25	
2900.00	2893.20	16.91	92.75	2865.95	7.63	6.21	82.39	97.59	82.14	6.32	
3000.00	2992.91	16.91	92.75	2961.35	8.15	6.46	83.69	104.77	88.32	6.37	
3100.00	3092.63	16.91	92.75	3056.76	8.69	6.72	84.82	112.00	94.52	6.41	
3200.00	3192.34	16.91	92.75	3152.16	9.23	6.99	85.81	119.26	100.72	6.43	
3300.00	3292.06	16.91	92.75	3247.57	9.78	7.25	86.69	126.56	106.90	6.44	
3400.00	3391.78	16.91	92.75	3342.97	10.34	7.52	87.47	133.88	113.10	6.44	
3500.00	3491.49	16.91	92.75	3438.38	10.91	7.79	88.17	141.23	119.31	6.44	
3600.00	3591.21	16.91	92.75	3533.78	11.48	8.07	88.80	148.60	125.52	6.44	
3700.00	3690.92	16.91	92.75	3629.19	12.06	8.34	89.37	155.98	131.75	6.44	
3800.00	3790.64	16.91	92.75	3724.59	12.64	8.62	89.89	163.37	137.98	6.43	
3900.00	3890.35	16.91	92.75	3820.00	13.23	8.90	90.37	170.78	144.21	6.43	
4000.00	3990.07	16.91	92.75	3915.40	13.82	9.18	90.80	178.20	150.46	6.42	
4100.00	4089.79	16.91	92.75	4010.81	14.41	9.46	91.20	185.63	156.70	6.42	
4200.00	4189.50	16.91	92.75	4106.22	15.00	9.75	91.57	193.06	162.95	6.41	
4300.00	4289.22	16.91	92.75	4201.62	15.60	10.03	91.91	200.51	169.21	6.41	
4400.00	4388.93	16.91	92.75	4297.03	16.20	10.32	92.23	207.96	175.47	6.40	

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
4500.00	4488.65	16.91	92.75	4392.43	16.80	10.61	92.53	215.41	181.73	6.39	
4600.00	4588.36	16.91	92.75	4487.84	17.40	10.89	92.80	222.87	187.99	6.39	
4700.00	4688.08	16.91	92.75	4583.24	18.00	11.18	93.06	230.34	194.26	6.38	
4800.00	4787.80	16.91	92.75	4678.65	18.60	11.47	93.30	237.81	200.52	6.38	
4900.00	4887.51	16.91	92.75	4774.05	19.21	11.76	93.53	245.28	206.79	6.37	
5000.00	4987.23	16.91	92.75	4869.46	19.82	12.05	93.74	252.76	213.07	6.37	
5100.00	5086.94	16.91	92.75	4964.86	20.42	12.35	93.94	260.24	219.34	6.36	
5200.00	5186.66	16.91	92.75	5060.27	21.03	12.64	94.13	267.73	225.62	6.36	
5300.00	5286.37	16.91	92.75	5155.67	21.64	12.93	94.31	275.21	231.89	6.35	
5400.00	5386.09	16.91	92.75	5251.08	22.25	13.22	94.48	282.70	238.17	6.35	
5500.00	5485.81	16.91	92.75	5346.48	22.86	13.52	94.65	290.20	244.45	6.34	
5600.00	5585.52	16.91	92.75	5441.89	23.47	13.81	94.80	297.69	250.73	6.34	
5700.00	5685.24	16.91	92.75	5537.30	24.08	14.11	94.95	305.19	257.01	6.33	
5800.00	5784.95	16.91	92.75	5632.70	24.69	14.40	95.08	312.68	263.29	6.33	
5900.00	5884.67	16.91	92.75	5728.11	25.31	14.70	95.22	320.18	269.58	6.33	
6000.00	5984.38	16.91	92.75	5823.51	25.92	15.00	95.34	327.69	275.86	6.32	
6100.00	6084.10	16.91	92.75	5918.92	26.53	15.29	95.46	335.19	282.15	6.32	
6200.00	6183.82	16.91	92.75	6014.32	27.14	15.59	95.58	342.69	288.43	6.32	
6300.00	6283.98	14.83	93.65	6110.29	27.73	15.90	95.77	350.18	294.73	6.31	
6400.00	6384.10	6.96	101.95	6208.53	28.06	16.05	97.75	357.50	301.10	6.34	
6500.00	6481.29	2.13	206.75	6305.48	28.19	15.92	109.14	365.55	308.66	6.43	
6600.00	6576.35	8.86	254.78	6400.07	28.17	15.52	170.52	374.54	317.54	6.57	
6700.00	6669.49	16.22	260.34	6490.93	28.05	14.88	256.97	384.16	327.45	6.77	
6800.00	6760.96	23.51	262.44	6576.90	27.84	14.07	269.91	394.07	337.93	7.02	
6900.00	6850.98	30.69	263.58	6657.00	27.60	13.11	275.60	403.94	348.55	7.29	
7000.00	6939.78	37.78	264.30	6730.36	27.36	12.07	279.25	413.43	358.87	7.58	
7100.00	7027.57	44.80	264.83	6796.28	27.15	11.03	281.90	422.26	368.51	7.85	
7200.00	7114.53	51.75	265.23	6854.13	27.02	10.08	283.90	430.18	377.02	8.09	
7300.00	7200.87	58.65	265.56	6903.37	27.00	9.34	285.38	436.95	384.17	8.28	
7400.00	7286.74	65.51	265.84	6943.56	27.15	8.93	286.44	442.42	389.64	8.38	
7500.00	7372.34	72.36	266.09	6974.30	27.46	8.94	287.10	446.43	393.14	8.38	
7600.00	7457.81	79.19	266.33	6995.29	27.95	9.38	287.40	448.92	394.66	8.27	
7700.00	7543.33	86.03	266.55	7006.28	28.58	10.20	287.34	449.83	394.18	8.08	
7800.00	7635.02	90.00	266.68	7008.00	29.43	10.99	287.19	449.91	392.52	7.84	
7900.00	7735.02	90.00	266.68	7008.00	30.56	11.47	287.18	450.27	390.71	7.56	
8000.00	7835.02	90.00	266.68	7008.00	31.89	11.97	287.17	450.62	388.52	7.26	
8100.00	7935.02	90.00	266.68	7008.00	33.41	12.50	287.15	450.98	385.99	6.94	
8200.00	8035.01	90.00	266.68	7008.00	35.08	13.05	287.14	451.33	383.16	6.62	
8300.00	8135.01	90.00	266.68	7008.00	36.89	13.61	287.12	451.68	380.06	6.31	
8400.00	8235.01	90.00	266.68	7008.00	38.82	14.19	287.11	452.04	376.69	6.00	
8500.00	8335.01	90.00	266.68	7008.00	40.84	14.79	287.10	452.39	373.12	5.71	
8600.00	8435.01	90.00	266.68	7008.00	42.96	15.39	287.08	452.75	369.40	5.43	
8700.00	8535.01	90.00	266.68	7008.00	45.15	16.01	287.07	453.10	365.53	5.17	
8800.00	8635.01	90.00	266.68	7008.00	47.40	16.64	287.06	453.46	361.55	4.93	
8900.00	8735.01	90.00	266.68	7008.00	49.71	17.27	287.04	453.81	357.46	4.71	
9000.00	8835.01	90.00	266.68	7008.00	52.07	17.91	287.03	454.16	353.28	4.50	
9100.00	8935.01	90.00	266.68	7008.00	54.47	18.56	287.01	454.52	349.03	4.31	
9200.00	9035.01	90.00	266.68	7008.00	56.90	19.22	287.00	454.87	344.71	4.13	
9300.00	9135.01	90.00	266.68	7008.00	59.37	19.88	286.99	455.23	340.33	3.96	
9400.00	9235.01	90.00	266.68	7008.00	61.86	20.54	286.97	455.58	335.90	3.81	
9500.00	9335.01	90.00	266.68	7008.00	64.38	21.21	286.96	455.94	331.42	3.66	
9600.00	9435.01	90.00	266.68	7008.00	66.93	21.89	286.95	456.29	326.90	3.53	
9700.00	9535.00	90.00	266.68	7008.00	69.49	22.56	286.93	456.64	322.34	3.40	
9800.00	9635.00	90.00	266.68	7008.00	72.07	23.25	286.92	457.00	317.76	3.28	
9900.00	9735.00	90.00	266.68	7008.00	74.66	23.93	286.91	457.35	313.14	3.17	
10000.00	9835.00	90.00	266.68	7008.00	77.27	24.62	286.89	457.71	308.49	3.07	
10100.00	9935.00	90.00	266.68	7008.00	79.89	25.31	286.88	458.06	303.82	2.97	
10200.00	10035.00	90.00	266.68	7008.00	82.53	26.00	286.87	458.42	299.13	2.88	

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
10300.00	10135.00	90.00	266.68	7008.00	85.17	26.69	286.85	458.77	294.42	2.79	
10400.00	10235.00	90.00	266.68	7008.00	87.83	27.39	286.84	459.13	289.69	2.71	
10500.00	10335.00	90.00	266.68	7008.00	90.49	28.09	286.83	459.48	284.95	2.63	
10600.00	10435.00	90.00	266.68	7008.00	93.16	28.79	286.81	459.84	280.19	2.56	
10700.00	10535.00	90.00	266.68	7008.00	95.84	29.49	286.80	460.19	275.41	2.49	SF(Lo)
10800.00	10635.00	90.00	266.68	7008.00	98.52	30.19	286.79	460.54	270.63	2.42	SF(Lo)
10900.00	10735.00	90.00	266.68	7008.00	101.21	30.90	286.77	460.90	265.83	2.36	SF(Lo)
11000.00	10835.00	90.00	266.68	7008.00	103.91	31.60	286.76	461.25	261.01	2.30	SF(Lo)
11100.00	10934.99	90.00	266.68	7008.00	106.61	32.31	286.75	461.61	256.19	2.25	SF(Lo)
11200.00	11034.99	90.00	266.68	7008.00	109.32	33.02	286.73	461.96	251.36	2.19	SF(Lo)
11300.00	11134.99	90.00	266.68	7008.00	112.03	33.73	286.72	462.32	246.52	2.14	SF(Lo)
11400.00	11234.99	90.00	266.68	7008.00	114.74	34.44	286.71	462.67	241.67	2.09	SF(Lo)
11500.00	11334.99	90.00	266.68	7008.00	117.46	35.15	286.69	463.03	236.82	2.05	SF(Lo)
11600.00	11434.99	90.00	266.68	7008.00	120.18	35.86	286.68	463.38	231.95	2.00	SF(Lo)
11700.00	11534.99	90.00	266.68	7008.00	122.91	36.57	286.67	463.74	227.08	1.96	SF(Lo)
11800.00	11634.99	90.00	266.68	7008.00	125.64	37.29	286.65	464.09	222.20	1.92	SF(Lo)
11900.00	11734.99	90.00	266.68	7008.00	128.37	38.00	286.64	464.45	217.32	1.88	SF(Lo)
12000.00	11834.99	90.00	266.68	7008.00	131.10	38.72	286.63	464.80	212.43	1.84	SF(Lo)
12100.00	11934.99	90.00	266.68	7008.00	133.84	39.43	286.61	465.16	207.53	1.81	SF(Lo)
12200.00	12034.99	90.00	266.68	7008.00	136.58	40.15	286.60	465.51	202.63	1.77	SF(Lo)
12300.00	12134.99	90.00	266.68	7008.00	139.32	40.87	286.59	465.87	197.72	1.74	SF(Lo)
12400.00	12234.99	90.00	266.68	7008.00	142.07	41.58	286.58	466.22	192.80	1.71	SF(Lo)
12500.00	12334.99	90.00	266.68	7008.00	144.81	42.30	286.56	466.58	187.88	1.67	SF(Lo)
12600.00	12434.98	90.00	266.68	7008.00	147.56	43.02	286.55	466.93	182.96	1.64	SF(Lo)
12700.00	12534.98	90.00	266.68	7008.00	150.31	43.74	286.54	467.29	178.03	1.62	SF(Lo)
12800.00	12634.98	90.00	266.68	7008.00	153.06	44.46	286.52	467.64	173.10	1.59	SF(Lo)
12900.00	12734.98	90.00	266.68	7008.00	155.82	45.18	286.51	468.00	168.16	1.56	SF(Lo)
13000.00	12834.98	90.00	266.68	7008.00	158.57	45.90	286.50	468.35	163.22	1.53	SF(Lo)
13100.00	12934.98	90.00	266.68	7008.00	161.33	46.62	286.48	468.71	158.28	1.51	SF(Lo)
13200.00	13034.98	90.00	266.68	7008.00	164.09	47.34	286.47	469.06	153.34	1.49	SF(Med)
13300.00	13134.98	90.00	266.68	7008.00	166.85	48.06	286.46	469.42	148.39	1.46	SF(Med)
13400.00	13234.98	90.00	266.68	7008.00	169.61	48.79	286.45	469.78	143.43	1.44	SF(Med)
13500.00	13334.98	90.00	266.68	7008.00	172.37	49.51	286.43	470.13	138.48	1.42	SF(Med)
13600.00	13434.98	90.00	266.68	7008.00	175.13	50.23	286.42	470.49	133.51	1.40	SF(Med)
13700.00	13534.98	90.00	266.68	7008.00	177.89	50.95	286.41	470.84	128.54	1.38	SF(Med)
13800.00	13634.98	90.00	266.68	7008.00	180.66	51.68	286.40	471.20	123.57	1.36	SF(Med)
13900.00	13734.98	90.00	266.68	7008.00	183.43	52.40	286.38	471.55	118.60	1.34	SF(Med)
14000.00	13834.98	90.00	266.68	7008.00	186.19	53.12	286.37	471.91	113.63	1.32	SF(Med)
14100.00	13934.97	90.00	266.68	7008.00	188.96	53.85	286.36	472.26	108.65	1.30	SF(Med)
14200.00	14034.97	90.00	266.68	7008.00	191.73	54.57	286.34	472.62	103.67	1.28	SF(Med)
14300.00	14134.97	90.00	266.68	7008.00	194.50	55.30	286.33	472.97	98.69	1.26	SF(Med)
14400.00	14234.97	90.00	266.68	7008.00	197.27	56.02	286.32	473.33	93.71	1.25	SF(Med)
14500.00	14334.97	90.00	266.68	7008.00	200.04	56.75	286.31	473.69	88.72	1.23	SF(Med)
14600.00	14434.97	90.00	266.68	7008.00	202.81	57.47	286.29	474.04	83.73	1.21	SF(Med)
14700.00	14534.97	90.00	266.68	7008.00	205.58	58.20	286.28	474.40	78.74	1.20	SF(Med)
14800.00	14634.97	90.00	266.68	7008.00	208.36	58.92	286.27	474.75	73.75	1.18	SF(Med)
14900.00	14734.97	90.00	266.68	7008.00	211.13	59.65	286.26	475.11	68.76	1.17	SF(Med)
15000.00	14834.97	90.00	266.68	7008.00	213.91	60.38	286.24	475.46	63.76	1.15	SF(Med)
15100.00	14934.97	90.00	266.68	7008.00	216.68	61.10	286.23	475.82	58.76	1.14	SF(Med)
15200.00	15034.97	90.00	266.68	7008.00	219.46	61.83	286.22	476.18	53.77	1.13	SF(Med)
15300.00	15134.97	90.00	266.68	7008.00	222.23	62.55	286.21	476.53	48.76	1.11	SF(Med)
15400.00	15234.97	90.00	266.68	7008.00	225.01	63.28	286.19	476.89	43.76	1.10	SF(Med)
15500.00	15334.96	90.00	266.68	7008.00	227.79	64.01	286.18	477.24	38.76	1.09	SF(Med)
15600.00	15434.96	90.00	266.68	7008.00	230.56	64.73	286.17	477.60	33.75	1.08	SF(Med)
15644.54	15479.50	90.00	266.68	7008.00	231.80	65.06	286.16	477.76	31.52	1.07	SF(Med)

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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	180.08	59.75	59.01	81.48	CC (Lo)
100.00	100.00	0.00	0.00	100.00	0.11	0.11	180.08	59.75	58.79	62.63	CC (Lo)
200.00	200.00	0.00	0.00	200.00	0.34	0.34	180.08	59.75	58.34	42.57	CC (Lo)
300.00	300.00	0.00	0.00	300.00	0.56	0.56	180.08	59.75	57.90	32.24	CC (Lo)
400.00	400.00	0.00	0.00	400.00	0.79	0.79	180.08	59.75	57.45	25.95	CC (Lo)
500.00	500.00	0.00	0.00	500.00	1.01	1.01	180.08	59.75	57.00	21.71	CC (Lo)
600.00	600.00	0.00	0.00	600.00	1.24	1.24	180.08	59.75	56.55	18.66	CC (Lo)
700.00	700.00	0.00	0.00	700.00	1.46	1.46	180.08	59.75	56.10	16.36	CC (Lo)
800.00	800.00	0.00	0.00	800.00	1.69	1.69	180.08	59.75	55.65	14.57	CC (Lo)
900.00	900.00	0.00	0.00	900.00	1.91	1.91	180.08	59.75	55.20	13.13	CC (Lo)
1000.00	1000.00	0.00	0.00	1000.00	2.14	2.14	180.08	59.75	54.75	11.95	CC (Lo)
1100.00	1100.00	0.00	0.00	1100.00	2.36	2.36	180.08	59.75	54.30	10.96	CC (Lo)
1200.00	1200.00	0.00	0.00	1200.00	2.58	2.58	180.08	59.75	53.85	10.13	CC (Lo)
1300.00	1300.00	0.00	0.00	1300.00	2.81	2.81	180.08	59.75	53.40	9.41	CC (Lo)
1400.00	1400.00	0.00	0.00	1400.00	3.03	3.03	180.08	59.75	52.95	8.79	CC (Lo)
1500.00	1499.80	1.00	100.92	1499.80	3.25	3.25	179.68	59.83	52.60	8.27	CC (Lo)
1600.00	1599.28	2.99	100.92	1599.21	3.44	3.44	176.47	60.60	52.96	7.92	CC (Lo)
1700.00	1698.40	4.97	100.92	1698.09	3.65	3.63	170.37	62.70	54.63	7.77	CC (Lo)
1800.00	1796.93	6.94	100.92	1796.08	3.86	3.82	162.16	67.06	58.57	7.90	
1900.00	1894.86	8.90	100.92	1893.08	4.10	4.01	76.14	74.27	65.37	8.35	
2000.00	1992.34	10.85	100.92	1989.11	4.36	4.20	70.11	83.78	74.45	8.98	
2100.00	2089.35	12.79	100.92	2084.06	4.66	4.39	65.82	95.05	85.29	9.74	
2200.00	2185.87	14.72	100.92	2177.81	5.01	4.59	62.89	107.70	97.49	10.55	
2300.00	2281.89	16.64	100.92	2270.25	5.40	4.79	60.97	121.47	110.78	11.36	
2400.00	2380.51	16.88	100.92	2364.63	5.85	5.02	60.11	135.23	123.97	12.01	
2500.00	2479.76	16.88	100.92	2459.60	6.33	5.26	60.57	147.30	135.41	12.38	
2600.00	2579.11	16.88	100.92	2554.67	6.84	5.51	62.07	157.75	145.14	12.51	
2700.00	2678.45	16.88	100.92	2649.72	7.36	5.77	64.43	166.92	153.47	12.41	
2800.00	2777.77	16.88	100.92	2744.76	7.90	6.03	66.81	176.12	161.76	12.26	
2900.00	2877.09	16.88	100.92	2839.80	8.45	6.29	68.95	185.59	170.28	12.12	
3000.00	2976.41	16.88	100.92	2934.84	9.01	6.56	70.88	195.30	178.98	11.96	
3100.00	3075.73	16.88	100.92	3029.88	9.57	6.83	72.63	205.21	187.84	11.82	
3200.00	3175.05	16.88	100.92	3124.92	10.15	7.10	74.22	215.29	196.82	11.66	
3300.00	3274.38	16.88	100.92	3219.96	10.73	7.37	75.66	225.52	205.94	11.52	
3400.00	3373.70	16.88	100.92	3315.00	11.31	7.65	76.98	235.87	215.18	11.40	
3500.00	3473.02	16.88	100.92	3410.05	11.89	7.93	78.18	246.35	224.52	11.29	
3600.00	3572.34	16.88	100.92	3505.09	12.48	8.21	79.29	256.92	233.93	11.18	
3700.00	3671.66	16.88	100.92	3600.13	13.08	8.49	80.31	267.58	243.42	11.08	
3800.00	3770.98	16.88	100.92	3695.17	13.67	8.78	81.26	278.31	252.98	10.99	
3900.00	3870.31	16.88	100.92	3790.21	14.27	9.06	82.13	289.12	262.61	10.91	
4000.00	3969.63	16.88	100.92	3885.25	14.87	9.35	82.94	299.99	272.30	10.84	
4100.00	4068.95	16.88	100.92	3980.29	15.47	9.64	83.69	310.91	282.03	10.77	
4200.00	4168.27	16.88	100.92	4075.33	16.07	9.92	84.39	321.88	291.80	10.70	
4300.00	4267.59	16.88	100.92	4170.37	16.67	10.21	85.05	332.90	301.61	10.64	
4400.00	4366.91	16.88	100.92	4265.41	17.28	10.50	85.66	343.96	311.47	10.59	
4500.00	4466.23	16.88	100.92	4360.45	17.88	10.79	86.24	355.05	321.35	10.54	
4600.00	4565.56	16.88	100.92	4455.49	18.49	11.08	86.78	366.18	331.27	10.49	
4700.00	4664.88	16.88	100.92	4550.53	19.10	11.38	87.28	377.33	341.22	10.45	
4800.00	4764.20	16.88	100.92	4645.57	19.71	11.67	87.76	388.52	351.20	10.41	
4900.00	4863.52	16.88	100.92	4740.61	20.32	11.96	88.22	399.73	361.21	10.38	
5000.00	4962.84	16.88	100.92	4835.66	20.93	12.25	88.64	410.96	371.22	10.34	
5100.00	5062.16	16.88	100.92	4930.70	21.54	12.55	89.05	422.22	381.25	10.31	
5200.00	5161.49	16.88	100.92	5025.74	22.15	12.84	89.43	433.49	391.29	10.27	
5300.00	5260.81	16.88	100.92	5120.78	22.76	13.14	89.80	444.78	401.36	10.24	
5400.00	5360.13	16.88	100.92	5215.82	23.37	13.43	90.14	456.09	411.44	10.21	
5500.00	5459.45	16.88	100.92	5310.86	23.98	13.73	90.47	467.42	421.54	10.19	
5600.00	5558.77	16.88	100.92	5405.90	24.60	14.02	90.79	478.76	431.65	10.16	
5700.00	5658.09	16.88	100.92	5500.94	25.21	14.32	91.09	490.11	441.78	10.14	

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
5800.00	5757.41	16.88	100.92	5595.98	25.82	14.61	91.37	501.48	451.92	10.12	
5900.00	5856.74	16.88	100.92	5691.02	26.44	14.91	91.65	512.85	462.07	10.10	
6000.00	5956.06	16.88	100.92	5786.06	27.05	15.21	91.91	524.24	472.23	10.08	
6100.00	6055.38	16.88	100.92	5881.10	27.67	15.50	92.16	535.64	482.40	10.06	
6200.00	6159.37	11.49	107.91	5981.49	28.14	15.78	92.77	546.77	492.36	10.05	
6300.00	6262.51	4.80	145.93	6083.58	28.35	15.80	94.80	557.09	501.63	10.05	
6400.00	6358.50	6.61	229.00	6179.23	28.36	15.54	98.12	567.95	511.70	10.10	
6500.00	6448.17	13.01	249.16	6267.56	28.23	15.06	110.56	581.04	524.52	10.28	
6600.00	6534.27	19.67	255.67	6350.15	28.01	14.41	172.94	596.27	539.93	10.58	
6700.00	6617.45	26.20	258.86	6426.71	27.75	13.63	260.33	612.89	557.13	10.99	
6800.00	6698.23	32.60	260.80	6497.05	27.46	12.75	274.13	630.17	575.24	11.47	
6900.00	6777.05	38.85	262.14	6561.01	27.19	11.83	280.61	647.40	593.44	12.00	
7000.00	6854.29	45.00	263.13	6618.45	26.97	10.91	284.96	663.95	610.97	12.53	
7100.00	6930.25	51.05	263.92	6669.24	26.81	10.06	288.22	679.25	627.19	13.05	
7200.00	7005.21	57.02	264.58	6713.24	26.74	9.35	290.75	692.84	641.48	13.49	
7300.00	7079.39	62.93	265.14	6750.34	26.80	8.87	292.68	704.32	653.40	13.83	
7400.00	7152.99	68.80	265.65	6780.42	27.00	8.69	294.09	713.38	662.60	14.05	
7500.00	7226.20	74.64	266.12	6803.36	27.31	8.84	295.04	719.80	668.64	14.07	
7600.00	7299.18	80.47	266.55	6819.08	27.75	9.31	295.55	723.42	671.50	13.93	
7700.00	7372.08	86.28	266.98	6827.49	28.34	10.06	295.64	724.16	671.08	13.64	
7800.00	7454.83	90.00	267.24	6829.00	29.12	10.82	295.56	723.22	668.59	13.24	
7900.00	7554.83	90.00	267.24	6829.00	30.26	11.30	295.58	722.67	665.96	12.74	
8000.00	7654.83	90.00	267.24	6829.00	31.59	11.81	295.60	722.12	662.93	12.20	
8100.00	7754.83	90.00	267.24	6829.00	33.11	12.35	295.62	721.56	659.59	11.64	
8200.00	7854.82	90.00	267.24	6829.00	34.78	12.90	295.64	721.01	655.98	11.09	
8300.00	7954.82	90.00	267.24	6829.00	36.60	13.47	295.66	720.46	652.14	10.55	
8400.00	8054.82	90.00	267.24	6829.00	38.53	14.06	295.68	719.90	648.10	10.03	
8500.00	8154.82	90.00	267.24	6829.00	40.57	14.66	295.70	719.35	643.89	9.53	
8600.00	8254.82	90.00	267.24	6829.00	42.69	15.27	295.73	718.80	639.53	9.07	
8700.00	8354.81	90.00	267.24	6829.00	44.88	15.90	295.75	718.24	635.05	8.63	
8800.00	8454.81	90.00	267.24	6829.00	47.14	16.53	295.77	717.69	630.47	8.23	
8900.00	8554.81	90.00	267.24	6829.00	49.46	17.17	295.79	717.14	625.72	7.84	
9000.00	8654.81	90.00	267.24	6829.00	51.82	17.81	295.81	716.59	620.86	7.49	
9100.00	8754.81	90.00	267.24	6829.00	54.23	18.47	295.83	716.03	615.94	7.15	
9200.00	8854.81	90.00	267.24	6829.00	56.67	19.13	295.85	715.48	610.96	6.85	
9300.00	8954.80	90.00	267.24	6829.00	59.14	19.79	295.88	714.93	605.92	6.56	
9400.00	9054.80	90.00	267.24	6829.00	61.65	20.46	295.90	714.38	600.83	6.29	
9500.00	9154.80	90.00	267.24	6829.00	64.17	21.13	295.92	713.82	595.71	6.04	
9600.00	9254.80	90.00	267.24	6829.00	66.72	21.81	295.94	713.27	590.55	5.81	
9700.00	9354.80	90.00	267.24	6829.00	69.29	22.49	295.96	712.72	585.36	5.60	
9800.00	9454.79	90.00	267.24	6829.00	71.87	23.18	295.98	712.17	580.14	5.39	
9900.00	9554.79	90.00	267.24	6829.00	74.47	23.86	296.00	711.62	574.90	5.21	
10000.00	9654.79	90.00	267.24	6829.00	77.09	24.55	296.03	711.07	569.64	5.03	
10100.00	9754.79	90.00	267.24	6829.00	79.72	25.25	296.05	710.51	564.35	4.86	
10200.00	9854.79	90.00	267.24	6829.00	82.35	25.94	296.07	709.96	559.05	4.70	
10300.00	9954.78	90.00	267.24	6829.00	85.00	26.64	296.09	709.41	553.73	4.56	
10400.00	10054.78	90.00	267.24	6829.00	87.66	27.33	296.11	708.86	548.40	4.42	
10500.00	10154.78	90.00	267.24	6829.00	90.33	28.03	296.14	708.31	543.05	4.29	
10600.00	10254.78	90.00	267.24	6829.00	93.00	28.74	296.16	707.76	537.69	4.16	
10700.00	10354.78	90.00	267.24	6829.00	95.69	29.44	296.18	707.21	532.32	4.04	
10800.00	10454.78	90.00	267.24	6829.00	98.38	30.14	296.20	706.66	526.95	3.93	
10900.00	10554.77	90.00	267.24	6829.00	101.07	30.85	296.22	706.10	521.56	3.83	
11000.00	10654.77	90.00	267.24	6829.00	103.77	31.56	296.25	705.55	516.16	3.73	
11100.00	10754.77	90.00	267.24	6829.00	106.48	32.27	296.27	705.00	510.76	3.63	
11200.00	10854.77	90.00	267.24	6829.00	109.19	32.98	296.29	704.45	505.35	3.54	
11300.00	10954.77	90.00	267.24	6829.00	111.90	33.69	296.31	703.90	499.94	3.45	
11400.00	11054.76	90.00	267.24	6829.00	114.62	34.40	296.33	703.35	494.52	3.37	
11500.00	11154.76	90.00	267.24	6829.00	117.34	35.11	296.36	702.80	489.10	3.29	

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
11600.00	11254.76	90.00	267.24	6829.00	120.07	35.82	296.38	702.25	483.67	3.21	
11700.00	11354.76	90.00	267.24	6829.00	122.80	36.54	296.40	701.70	478.23	3.14	
11800.00	11454.76	90.00	267.24	6829.00	125.53	37.25	296.42	701.15	472.80	3.07	
11900.00	11554.75	90.00	267.24	6829.00	128.27	37.97	296.44	700.60	467.36	3.00	
12000.00	11654.75	90.00	267.24	6829.00	131.01	38.69	296.47	700.05	461.91	2.94	
12100.00	11754.75	90.00	267.24	6829.00	133.75	39.40	296.49	699.50	456.47	2.88	
12200.00	11854.75	90.00	267.24	6829.00	136.49	40.12	296.51	698.96	451.02	2.82	
12300.00	11954.75	90.00	267.24	6829.00	139.24	40.84	296.53	698.41	445.57	2.76	
12400.00	12054.75	90.00	267.24	6829.00	141.98	41.56	296.56	697.86	440.12	2.71	
12500.00	12154.74	90.00	267.24	6829.00	144.73	42.28	296.58	697.31	434.66	2.65	
12600.00	12254.74	90.00	267.24	6829.00	147.49	42.99	296.60	696.76	429.21	2.60	
12700.00	12354.74	90.00	267.24	6829.00	150.24	43.71	296.62	696.21	423.75	2.56	
12800.00	12454.74	90.00	267.24	6829.00	153.00	44.44	296.65	695.66	418.29	2.51	
12900.00	12554.74	90.00	267.24	6829.00	155.75	45.16	296.67	695.11	412.84	2.46	SF(Lo)
13000.00	12654.73	90.00	267.24	6829.00	158.51	45.88	296.69	694.56	407.38	2.42	SF(Lo)
13100.00	12754.73	90.00	267.24	6829.00	161.27	46.60	296.72	694.02	401.92	2.38	SF(Lo)
13200.00	12854.73	90.00	267.24	6829.00	164.03	47.32	296.74	693.47	396.46	2.33	SF(Lo)
13300.00	12954.73	90.00	267.24	6829.00	166.80	48.04	296.76	692.92	391.00	2.30	SF(Lo)
13400.00	13054.73	90.00	267.24	6829.00	169.56	48.77	296.78	692.37	385.54	2.26	SF(Lo)
13500.00	13154.72	90.00	267.24	6829.00	172.32	49.49	296.81	691.82	380.07	2.22	SF(Lo)
13600.00	13254.72	90.00	267.24	6829.00	175.09	50.21	296.83	691.28	374.61	2.18	SF(Lo)
13700.00	13354.72	90.00	267.24	6829.00	177.86	50.94	296.85	690.73	369.15	2.15	SF(Lo)
13800.00	13454.72	90.00	267.24	6829.00	180.63	51.66	296.88	690.18	363.69	2.11	SF(Lo)
13900.00	13554.72	90.00	267.24	6829.00	183.39	52.38	296.90	689.63	358.23	2.08	SF(Lo)
14000.00	13654.72	90.00	267.24	6829.00	186.17	53.11	296.92	689.09	352.77	2.05	SF(Lo)
14100.00	13754.71	90.00	267.24	6829.00	188.94	53.83	296.95	688.54	347.31	2.02	SF(Lo)
14200.00	13854.71	90.00	267.24	6829.00	191.71	54.56	296.97	687.99	341.86	1.99	SF(Lo)
14300.00	13954.71	90.00	267.24	6829.00	194.48	55.28	296.99	687.44	336.40	1.96	SF(Lo)
14400.00	14054.71	90.00	267.24	6829.00	197.25	56.01	297.01	686.90	330.94	1.93	SF(Lo)
14500.00	14154.71	90.00	267.24	6829.00	200.03	56.73	297.04	686.35	325.48	1.90	SF(Lo)
14600.00	14254.70	90.00	267.24	6829.00	202.80	57.46	297.06	685.80	320.03	1.87	SF(Lo)
14700.00	14354.70	90.00	267.24	6829.00	205.58	58.19	297.08	685.26	314.57	1.85	SF(Lo)
14800.00	14454.70	90.00	267.24	6829.00	208.36	58.91	297.11	684.71	309.12	1.82	SF(Lo)
14900.00	14554.70	90.00	267.24	6829.00	211.13	59.64	297.13	684.16	303.67	1.80	SF(Lo)
15000.00	14654.70	90.00	267.24	6829.00	213.91	60.36	297.16	683.62	298.21	1.77	SF(Lo)
15100.00	14754.69	90.00	267.24	6829.00	216.69	61.09	297.18	683.07	292.76	1.75	SF(Lo)
15200.00	14854.69	90.00	267.24	6829.00	219.47	61.82	297.20	682.53	287.31	1.73	SF(Lo)
15300.00	14954.69	90.00	267.24	6829.00	222.25	62.54	297.23	681.98	281.86	1.70	SF(Lo)
15400.00	15054.69	90.00	267.24	6829.00	225.03	63.27	297.25	681.43	276.42	1.68	SF(Lo)
15500.00	15154.69	90.00	267.24	6829.00	227.81	64.00	297.27	680.89	270.97	1.66	SF(Lo)
15600.00	15254.68	90.00	267.24	6829.00	230.59	64.73	297.30	680.34	265.53	1.64	SF(Lo)
15644.54	15299.22	90.00	267.24	6829.00	231.83	65.05	297.31	680.10	263.10	1.63	SF(Lo)
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	180.15	79.79	79.05	108.80	
100.00	100.00	0.00	0.00	100.00	0.11	0.11	180.15	79.79	78.83	83.64	
200.00	200.00	0.00	0.00	200.00	0.34	0.34	180.15	79.79	78.38	56.85	
300.00	300.00	0.00	0.00	300.00	0.56	0.56	180.15	79.79	77.93	43.06	
400.00	400.00	0.00	0.00	400.00	0.79	0.79	180.15	79.79	77.48	34.65	
500.00	500.00	0.00	0.00	500.00	1.01	1.01	180.15	79.79	77.03	28.99	
600.00	600.00	0.00	0.00	600.00	1.24	1.24	180.15	79.79	76.58	24.92	
700.00	700.00	0.00	0.00	700.00	1.46	1.46	180.15	79.79	76.14	21.85	
800.00	800.00	0.00	0.00	800.00	1.69	1.69	180.15	79.79	75.69	19.46	
900.00	900.00	0.00	0.00	900.00	1.91	1.91	180.15	79.79	75.24	17.53	
1000.00	1000.00	0.00	0.00	1000.00	2.14	2.14	180.15	79.79	74.79	15.96	
1100.00	1100.00	0.00	0.00	1100.00	2.36	2.36	180.15	79.79	74.34	14.64	

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
1200.00	1200.00	0.00	0.00	1200.00	2.58	2.58	180.15	79.79	73.89	13.53	
1300.00	1300.00	0.00	0.00	1300.00	2.81	2.81	180.15	79.79	73.44	12.57	
1400.00	1399.12	1.98	107.85	1399.10	3.02	3.01	178.98	80.33	73.56	11.86	
1500.00	1498.00	3.96	107.85	1497.85	3.21	3.20	175.60	82.15	74.98	11.45	
1600.00	1596.42	5.93	107.85	1595.89	3.41	3.39	170.34	85.80	78.19	11.28	
1700.00	1694.14	7.88	107.85	1692.89	3.64	3.57	163.82	91.99	83.96	11.45	
1800.00	1790.94	9.82	107.85	1788.54	3.88	3.76	156.79	101.46	92.99	11.99	
1900.00	1886.90	11.74	107.85	1882.81	4.16	3.95	72.49	114.18	105.29	12.85	
2000.00	1982.22	13.64	107.85	1975.79	4.48	4.15	67.94	129.26	119.95	13.89	
2100.00	2076.87	15.54	107.85	2067.39	4.85	4.34	64.75	146.14	136.39	14.99	
2200.00	2173.57	16.27	107.85	2160.28	5.28	4.56	62.68	163.96	153.75	16.06	
2300.00	2272.18	16.27	107.85	2254.93	5.74	4.80	61.89	180.49	169.74	16.79	
2400.00	2371.04	16.27	107.85	2349.84	6.23	5.05	62.13	195.41	184.06	17.21	
2500.00	2470.04	16.27	107.85	2444.87	6.74	5.30	63.18	208.77	196.76	17.39	
2600.00	2569.05	16.27	107.85	2539.91	7.26	5.56	64.92	220.74	208.02	17.35	
2700.00	2667.96	16.27	107.85	2634.86	7.79	5.82	67.27	231.70	218.12	17.06	
2800.00	2766.85	16.27	107.85	2729.79	8.33	6.08	69.65	242.84	228.33	16.73	
2900.00	2865.74	16.27	107.85	2824.72	8.88	6.34	71.82	254.36	238.90	16.45	
3000.00	2964.63	16.27	107.85	2919.64	9.43	6.61	73.80	266.22	249.76	16.18	
3100.00	3063.52	16.27	107.85	3014.57	9.99	6.88	75.61	278.36	260.83	15.88	
3200.00	3162.41	16.27	107.85	3109.50	10.56	7.16	77.27	290.75	272.14	15.62	
3300.00	3261.30	16.27	107.85	3204.42	11.12	7.43	78.79	303.37	283.65	15.38	
3400.00	3360.19	16.27	107.85	3299.35	11.69	7.71	80.20	316.18	295.35	15.18	
3500.00	3459.08	16.27	107.85	3394.28	12.27	7.99	81.49	329.17	307.23	15.00	
3600.00	3557.96	16.27	107.85	3489.21	12.84	8.27	82.68	342.30	319.25	14.85	
3700.00	3656.85	16.27	107.85	3584.13	13.42	8.55	83.79	355.58	331.38	14.70	
3800.00	3755.74	16.27	107.85	3679.06	14.00	8.83	84.82	368.97	343.59	14.54	
3900.00	3854.63	16.27	107.85	3773.99	14.58	9.11	85.77	382.48	355.91	14.40	
4000.00	3953.52	16.27	107.85	3868.92	15.16	9.40	86.66	396.08	368.32	14.27	
4100.00	4052.41	16.27	107.85	3963.84	15.74	9.68	87.49	409.77	380.83	14.16	
4200.00	4151.30	16.27	107.85	4058.77	16.33	9.96	88.27	423.53	393.41	14.06	
4300.00	4250.19	16.27	107.85	4153.70	16.91	10.25	88.99	437.37	406.06	13.97	
4400.00	4349.08	16.27	107.85	4248.62	17.50	10.54	89.68	451.28	418.79	13.89	
4500.00	4447.97	16.27	107.85	4343.55	18.09	10.82	90.32	465.24	431.57	13.81	
4600.00	4546.86	16.27	107.85	4438.48	18.67	11.11	90.92	479.26	444.40	13.75	
4700.00	4645.74	16.27	107.85	4533.41	19.26	11.40	91.50	493.33	457.29	13.69	
4800.00	4744.63	16.27	107.85	4628.33	19.85	11.69	92.03	507.44	470.22	13.63	
4900.00	4843.52	16.27	107.85	4723.26	20.44	11.98	92.54	521.60	483.20	13.58	
5000.00	4942.41	16.27	107.85	4818.19	21.03	12.26	93.03	535.79	496.21	13.54	
5100.00	5041.30	16.27	107.85	4913.12	21.62	12.55	93.49	550.02	509.26	13.49	
5200.00	5140.19	16.27	107.85	5008.04	22.21	12.84	93.92	564.28	522.34	13.45	
5300.00	5239.08	16.27	107.85	5102.97	22.80	13.13	94.33	578.58	535.46	13.42	
5400.00	5337.97	16.27	107.85	5197.90	23.39	13.42	94.73	592.90	548.59	13.38	
5500.00	5436.86	16.27	107.85	5292.82	23.99	13.72	95.10	607.24	561.74	13.35	
5600.00	5535.75	16.27	107.85	5387.75	24.58	14.01	95.46	621.61	574.92	13.31	
5700.00	5634.63	16.27	107.85	5482.68	25.17	14.30	95.80	636.01	588.12	13.28	
5800.00	5733.52	16.27	107.85	5577.61	25.76	14.59	96.13	650.42	601.34	13.25	
5900.00	5832.41	16.27	107.85	5672.53	26.36	14.88	96.44	664.86	614.58	13.22	
6000.00	5931.30	16.27	107.85	5767.46	26.95	15.17	96.74	679.31	627.84	13.20	
6100.00	6030.19	16.27	107.85	5862.39	27.54	15.46	97.03	693.78	641.11	13.17	
6200.00	6129.08	16.27	107.85	5957.32	28.14	15.76	97.30	708.27	654.41	13.15	
6300.00	6227.77	15.68	108.76	6052.06	28.72	16.05	97.57	722.77	667.74	13.13	
6400.00	6323.00	9.17	127.92	6145.05	29.05	16.24	98.58	737.55	681.52	13.16	
6500.00	6415.60	6.15	181.59	6236.92	29.12	16.18	109.12	753.16	696.56	13.31	
6600.00	6506.39	9.93	228.51	6326.89	29.01	15.90	169.72	769.46	712.64	13.54	
6700.00	6595.66	16.15	244.56	6413.85	28.75	15.41	255.48	786.04	729.34	13.86	
6800.00	6683.70	22.81	251.53	6496.81	28.38	14.72	267.83	802.49	746.17	14.25	
6900.00	6770.75	29.56	255.40	6574.89	27.97	13.87	273.02	818.44	762.66	14.67	

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
7000.00	6857.07	36.33	257.92	6647.28	27.55	12.90	276.25	833.51	778.38	15.12	
7100.00	6942.86	43.10	259.72	6713.24	27.17	11.86	278.56	847.37	792.89	15.55	
7200.00	7028.33	49.86	261.11	6772.06	26.87	10.83	280.28	859.75	805.82	15.94	
7300.00	7113.66	56.63	262.25	6823.09	26.69	9.91	281.55	870.38	816.77	16.23	
7400.00	7199.02	63.40	263.22	6865.73	26.68	9.24	282.44	879.08	825.41	16.38	
7500.00	7284.56	70.20	264.09	6899.40	26.88	8.96	282.98	885.68	831.54	16.36	
7600.00	7370.42	77.03	264.88	6923.61	27.29	9.16	283.20	890.07	835.04	16.17	
7700.00	7456.74	83.89	265.64	6937.91	27.89	9.84	283.09	892.20	835.87	15.84	
7800.00	7545.20	90.00	266.30	6942.00	28.66	10.82	282.88	892.85	834.88	15.40	
7900.00	7645.19	90.00	266.30	6942.00	29.73	11.30	282.86	893.86	833.69	14.85	
8000.00	7745.18	90.00	266.30	6942.00	31.00	11.80	282.85	894.87	832.15	14.27	
8100.00	7845.18	90.00	266.30	6942.00	32.46	12.32	282.83	895.88	830.27	13.65	
8200.00	7945.17	90.00	266.30	6942.00	34.08	12.87	282.82	896.89	828.10	13.04	
8300.00	8045.17	90.00	266.30	6942.00	35.85	13.43	282.81	897.90	825.65	12.43	
8400.00	8145.16	90.00	266.30	6942.00	37.74	14.01	282.79	898.91	822.90	11.83	
8500.00	8245.16	90.00	266.30	6942.00	39.74	14.61	282.78	899.92	819.95	11.25	
8600.00	8345.15	90.00	266.30	6942.00	41.83	15.21	282.76	900.93	816.84	10.71	
8700.00	8445.15	90.00	266.30	6942.00	44.00	15.83	282.75	901.94	813.59	10.21	
8800.00	8545.14	90.00	266.30	6942.00	46.24	16.46	282.73	902.95	810.21	9.74	
8900.00	8645.14	90.00	266.30	6942.00	48.54	17.10	282.72	903.96	806.72	9.30	
9000.00	8745.13	90.00	266.30	6942.00	50.88	17.74	282.70	904.97	803.14	8.89	
9100.00	8845.13	90.00	266.30	6942.00	53.27	18.39	282.69	905.98	799.47	8.51	
9200.00	8945.12	90.00	266.30	6942.00	55.70	19.05	282.67	906.99	795.73	8.15	
9300.00	9045.11	90.00	266.30	6942.00	58.15	19.71	282.66	908.00	791.93	7.82	
9400.00	9145.11	90.00	266.30	6942.00	60.64	20.38	282.65	909.01	788.08	7.52	
9500.00	9245.10	90.00	266.30	6942.00	63.16	21.05	282.63	910.02	784.17	7.23	
9600.00	9345.10	90.00	266.30	6942.00	65.70	21.72	282.62	911.03	780.22	6.96	
9700.00	9445.09	90.00	266.30	6942.00	68.25	22.40	282.60	912.04	776.23	6.72	
9800.00	9545.09	90.00	266.30	6942.00	70.83	23.08	282.59	913.05	772.20	6.48	
9900.00	9645.08	90.00	266.30	6942.00	73.42	23.77	282.58	914.06	768.15	6.26	
10000.00	9745.08	90.00	266.30	6942.00	76.03	24.46	282.56	915.08	764.06	6.06	
10100.00	9845.07	90.00	266.30	6942.00	78.65	25.15	282.55	916.09	759.95	5.87	
10200.00	9945.07	90.00	266.30	6942.00	81.28	25.84	282.53	917.10	755.82	5.69	
10300.00	10045.06	90.00	266.30	6942.00	83.92	26.53	282.52	918.11	751.67	5.52	
10400.00	10145.06	90.00	266.30	6942.00	86.57	27.23	282.50	919.12	747.49	5.36	
10500.00	10245.05	90.00	266.30	6942.00	89.23	27.93	282.49	920.13	743.30	5.20	
10600.00	10345.05	90.00	266.30	6942.00	91.90	28.63	282.48	921.14	739.09	5.06	
10700.00	10445.04	90.00	266.30	6942.00	94.57	29.33	282.46	922.15	734.87	4.92	
10800.00	10545.03	90.00	266.30	6942.00	97.26	30.04	282.45	923.16	730.63	4.79	
10900.00	10645.03	90.00	266.30	6942.00	99.95	30.74	282.44	924.17	726.39	4.67	
11000.00	10745.02	90.00	266.30	6942.00	102.64	31.45	282.42	925.18	722.13	4.56	
11100.00	10845.02	90.00	266.30	6942.00	105.34	32.16	282.41	926.20	717.85	4.45	
11200.00	10945.01	90.00	266.30	6942.00	108.04	32.86	282.39	927.21	713.57	4.34	
11300.00	11045.01	90.00	266.30	6942.00	110.75	33.57	282.38	928.22	709.28	4.24	
11400.00	11145.00	90.00	266.30	6942.00	113.47	34.28	282.37	929.23	704.98	4.14	
11500.00	11245.00	90.00	266.30	6942.00	116.18	35.00	282.35	930.24	700.68	4.05	
11600.00	11344.99	90.00	266.30	6942.00	118.90	35.71	282.34	931.25	696.36	3.96	
11700.00	11444.99	90.00	266.30	6942.00	121.63	36.42	282.33	932.26	692.04	3.88	
11800.00	11544.98	90.00	266.30	6942.00	124.36	37.14	282.31	933.28	687.71	3.80	
11900.00	11644.98	90.00	266.30	6942.00	127.09	37.85	282.30	934.29	683.38	3.72	
12000.00	11744.97	90.00	266.30	6942.00	129.82	38.57	282.29	935.30	679.03	3.65	
12100.00	11844.96	90.00	266.30	6942.00	132.56	39.28	282.27	936.31	674.69	3.58	
12200.00	11944.96	90.00	266.30	6942.00	135.29	40.00	282.26	937.32	670.34	3.51	
12300.00	12044.95	90.00	266.30	6942.00	138.03	40.72	282.24	938.33	665.98	3.45	
12400.00	12144.95	90.00	266.30	6942.00	140.78	41.44	282.23	939.35	661.62	3.38	
12500.00	12244.94	90.00	266.30	6942.00	143.52	42.15	282.22	940.36	657.25	3.32	
12600.00	12344.94	90.00	266.30	6942.00	146.27	42.87	282.20	941.37	652.88	3.26	
12700.00	12444.93	90.00	266.30	6942.00	149.02	43.59	282.19	942.38	648.51	3.21	

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
12800.00	12544.93	90.00	266.30	6942.00	151.77	44.31	282.18	943.40	644.13	3.15	
12900.00	12644.92	90.00	266.30	6942.00	154.52	45.03	282.16	944.41	639.75	3.10	
13000.00	12744.92	90.00	266.30	6942.00	157.27	45.75	282.15	945.42	635.36	3.05	
13100.00	12844.91	90.00	266.30	6942.00	160.03	46.47	282.14	946.43	630.97	3.00	
13200.00	12944.91	90.00	266.30	6942.00	162.78	47.20	282.13	947.44	626.58	2.95	
13300.00	13044.90	90.00	266.30	6942.00	165.54	47.92	282.11	948.46	622.19	2.91	
13400.00	13144.90	90.00	266.30	6942.00	168.30	48.64	282.10	949.47	617.79	2.86	
13500.00	13244.89	90.00	266.30	6942.00	171.06	49.36	282.09	950.48	613.39	2.82	
13600.00	13344.88	90.00	266.30	6942.00	173.82	50.09	282.07	951.49	608.98	2.78	
13700.00	13444.88	90.00	266.30	6942.00	176.58	50.81	282.06	952.51	604.58	2.74	
13800.00	13544.87	90.00	266.30	6942.00	179.35	51.53	282.05	953.52	600.17	2.70	
13900.00	13644.87	90.00	266.30	6942.00	182.11	52.26	282.03	954.53	595.76	2.66	
14000.00	13744.86	90.00	266.30	6942.00	184.88	52.98	282.02	955.54	591.35	2.62	
14100.00	13844.86	90.00	266.30	6942.00	187.64	53.70	282.01	956.56	586.93	2.59	
14200.00	13944.85	90.00	266.30	6942.00	190.41	54.43	282.00	957.57	582.51	2.55	
14300.00	14044.85	90.00	266.30	6942.00	193.18	55.15	281.98	958.58	578.09	2.52	
14400.00	14144.84	90.00	266.30	6942.00	195.95	55.88	281.97	959.60	573.67	2.49	SF(Lo)
14500.00	14244.84	90.00	266.30	6942.00	198.71	56.60	281.96	960.61	569.25	2.45	SF(Lo)
14600.00	14344.83	90.00	266.30	6942.00	201.49	57.33	281.94	961.62	564.82	2.42	SF(Lo)
14700.00	14444.83	90.00	266.30	6942.00	204.26	58.05	281.93	962.63	560.40	2.39	SF(Lo)
14800.00	14544.82	90.00	266.30	6942.00	207.03	58.78	281.92	963.65	555.97	2.36	SF(Lo)
14900.00	14644.81	90.00	266.30	6942.00	209.80	59.51	281.91	964.66	551.54	2.34	SF(Lo)
15000.00	14744.81	90.00	266.30	6942.00	212.57	60.23	281.89	965.67	547.11	2.31	SF(Lo)
15100.00	14844.80	90.00	266.30	6942.00	215.35	60.96	281.88	966.69	542.67	2.28	SF(Lo)
15200.00	14944.80	90.00	266.30	6942.00	218.12	61.68	281.87	967.70	538.24	2.25	SF(Lo)
15300.00	15044.79	90.00	266.30	6942.00	220.89	62.41	281.86	968.71	533.80	2.23	SF(Lo)
15400.00	15144.79	90.00	266.30	6942.00	223.67	63.14	281.84	969.73	529.36	2.20	SF(Lo)
15500.00	15244.78	90.00	266.30	6942.00	226.44	63.87	281.83	970.74	524.92	2.18	SF(Lo)
15600.00	15344.78	90.00	266.30	6942.00	229.22	64.59	281.82	971.75	520.48	2.15	SF(Lo)
15644.54	15389.32	90.00	266.30	6942.00	230.46	64.92	281.81	972.21	518.50	2.14	SF(Lo)
Secondary Well: Goetzel 33C-30-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
0.00	0.00	0.00	0.00	0.00	0.00	0.00	180.03	99.82	99.09	136.12	
100.00	100.00	0.00	0.00	100.00	0.11	0.11	180.03	99.82	98.87	104.64	
200.00	200.00	0.00	0.00	200.00	0.34	0.34	180.03	99.82	98.42	71.12	
300.00	300.00	0.00	0.00	300.00	0.56	0.56	180.03	99.82	97.97	53.87	
400.00	400.00	0.00	0.00	400.00	0.79	0.79	180.03	99.82	97.52	43.35	
500.00	500.00	0.00	0.00	500.00	1.01	1.01	180.03	99.82	97.07	36.27	
600.00	600.00	0.00	0.00	600.00	1.24	1.24	180.03	99.82	96.62	31.18	
700.00	700.00	0.00	0.00	700.00	1.46	1.46	180.03	99.82	96.17	27.34	
800.00	800.00	0.00	0.00	800.00	1.69	1.69	180.03	99.82	95.72	24.34	
900.00	900.00	0.00	0.00	900.00	1.91	1.91	180.03	99.82	95.27	21.94	
1000.00	1000.00	0.00	0.00	1000.00	2.14	2.14	180.03	99.82	94.82	19.96	
1100.00	1100.00	0.00	0.00	1100.00	2.36	2.36	180.03	99.82	94.37	18.32	
1200.00	1199.26	0.99	115.27	1199.26	2.57	2.57	179.81	100.01	94.13	17.01	
1300.00	1297.67	2.95	115.27	1297.61	2.76	2.76	178.09	101.53	95.24	16.14	
1400.00	1395.74	4.91	115.27	1395.43	2.96	2.94	174.81	104.85	98.15	15.67	
1500.00	1493.22	6.86	115.27	1492.40	3.17	3.13	170.32	110.42	103.29	15.50	
1600.00	1589.92	8.80	115.27	1588.19	3.41	3.32	165.08	118.78	111.24	15.74	
1700.00	1685.62	10.71	115.27	1682.50	3.67	3.51	159.58	130.43	122.43	16.29	
1800.00	1780.12	12.60	115.27	1775.05	3.97	3.70	154.25	145.69	137.26	17.29	
1900.00	1873.57	14.47	115.27	1865.90	4.32	3.90	71.54	164.16	155.29	18.52	
2000.00	1967.13	15.98	115.27	1956.12	4.71	4.10	68.16	184.83	175.57	19.96	
2100.00	2064.81	15.98	115.27	2050.02	5.16	4.34	66.05	205.45	195.70	21.06	
2200.00	2162.89	15.98	115.27	2144.31	5.64	4.58	65.09	224.78	214.52	21.90	
2300.00	2261.27	15.98	115.27	2238.89	6.14	4.83	65.02	242.68	231.86	22.44	

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
2400.00	2359.82	15.98	115.27	2333.63	6.65	5.09	65.65	259.15	247.74	22.71	
2500.00	2458.41	15.98	115.27	2428.41	7.18	5.34	66.86	274.33	262.25	22.70	
2600.00	2556.94	15.98	115.27	2523.13	7.71	5.61	68.57	288.41	275.56	22.44	
2700.00	2655.30	15.98	115.27	2617.69	8.25	5.87	70.78	301.75	288.07	22.05	
2800.00	2753.61	15.98	115.27	2712.21	8.80	6.14	73.05	315.38	300.78	21.59	
2900.00	2851.93	15.98	115.27	2806.73	9.35	6.41	75.12	329.46	313.86	21.12	
3000.00	2950.25	15.98	115.27	2901.25	9.90	6.68	77.03	343.93	327.32	20.71	
3100.00	3048.57	15.98	115.27	2995.77	10.46	6.95	78.78	358.75	341.12	20.35	
3200.00	3146.88	15.98	115.27	3090.29	11.02	7.23	80.39	373.87	355.19	20.01	
3300.00	3245.20	15.98	115.27	3184.81	11.58	7.50	81.88	389.27	369.50	19.69	
3400.00	3343.52	15.98	115.27	3279.33	12.15	7.78	83.25	404.90	384.04	19.41	
3500.00	3441.83	15.98	115.27	3373.84	12.71	8.06	84.53	420.75	398.76	19.13	
3600.00	3540.15	15.98	115.27	3468.36	13.28	8.34	85.71	436.78	413.66	18.89	
3700.00	3638.47	15.98	115.27	3562.88	13.85	8.62	86.80	452.98	428.73	18.68	
3800.00	3736.79	15.98	115.27	3657.40	14.42	8.90	87.83	469.34	443.95	18.49	
3900.00	3835.10	15.98	115.27	3751.92	15.00	9.18	88.78	485.83	459.31	18.32	
4000.00	3933.42	15.98	115.27	3846.44	15.57	9.46	89.67	502.44	474.77	18.15	
4100.00	4031.74	15.98	115.27	3940.96	16.14	9.75	90.50	519.17	490.32	18.00	
4200.00	4130.06	15.98	115.27	4035.48	16.72	10.03	91.28	535.99	505.98	17.86	
4300.00	4228.37	15.98	115.27	4130.00	17.30	10.31	92.02	552.91	521.74	17.74	
4400.00	4326.69	15.98	115.27	4224.52	17.87	10.60	92.71	569.91	537.58	17.62	
4500.00	4425.01	15.98	115.27	4319.03	18.45	10.88	93.36	586.99	553.49	17.52	
4600.00	4523.33	15.98	115.27	4413.55	19.03	11.17	93.97	604.14	569.48	17.43	
4700.00	4621.64	15.98	115.27	4508.07	19.60	11.46	94.55	621.35	585.53	17.35	
4800.00	4719.96	15.98	115.27	4602.59	20.18	11.74	95.10	638.62	601.64	17.27	
4900.00	4818.28	15.98	115.27	4697.11	20.76	12.03	95.62	655.94	617.80	17.20	
5000.00	4916.60	15.98	115.27	4791.63	21.34	12.32	96.12	673.31	634.02	17.14	
5100.00	5014.91	15.98	115.27	4886.15	21.92	12.60	96.59	690.73	650.28	17.08	
5200.00	5113.23	15.98	115.27	4980.67	22.50	12.89	97.03	708.19	666.59	17.02	
5300.00	5211.55	15.98	115.27	5075.19	23.08	13.18	97.46	725.69	682.94	16.97	
5400.00	5309.86	15.98	115.27	5169.71	23.66	13.47	97.86	743.23	699.32	16.93	
5500.00	5408.18	15.98	115.27	5264.23	24.24	13.75	98.25	760.81	715.74	16.88	
5600.00	5506.50	15.98	115.27	5358.74	24.82	14.04	98.61	778.41	732.20	16.84	
5700.00	5604.82	15.98	115.27	5453.26	25.40	14.33	98.97	796.05	748.68	16.81	
5800.00	5703.13	15.98	115.27	5547.78	25.98	14.62	99.30	813.71	765.18	16.77	
5900.00	5801.45	15.98	115.27	5642.30	26.57	14.91	99.63	831.40	781.71	16.73	
6000.00	5899.77	15.98	115.27	5736.82	27.15	15.20	99.93	849.11	798.26	16.70	
6100.00	5998.09	15.98	115.27	5831.34	27.73	15.49	100.23	866.85	814.84	16.67	
6200.00	6096.40	15.98	115.27	5925.86	28.31	15.77	100.52	884.60	831.44	16.64	
6300.00	6194.72	15.98	115.27	6020.38	28.89	16.06	100.79	902.38	848.06	16.61	
6400.00	6293.04	15.98	115.27	6114.90	29.47	16.35	101.25	920.18	864.69	16.58	
6500.00	6391.35	15.98	115.27	6209.41	30.06	16.64	110.57	937.70	881.34	16.64	
6600.00	6480.73	10.72	133.03	6296.30	30.35	16.84	169.59	955.02	898.27	16.83	
6700.00	6570.54	7.80	175.25	6385.03	30.39	16.85	253.84	972.46	915.63	17.11	
6800.00	6661.74	10.53	219.23	6475.16	30.21	16.64	264.77	989.75	933.08	17.46	
6900.00	6754.62	16.45	239.04	6565.48	29.84	16.20	268.64	1006.59	950.25	17.87	
7000.00	6849.48	23.39	248.22	6654.63	29.31	15.53	270.67	1022.70	966.84	18.31	
7100.00	6946.60	30.80	253.39	6741.04	28.67	14.61	271.90	1037.78	982.46	18.76	
7200.00	7046.25	38.54	256.78	6822.95	28.01	13.48	272.66	1051.57	996.74	19.18	
7300.00	7148.66	46.56	259.23	6898.33	27.42	12.19	273.09	1063.79	1009.27	19.51	
7400.00	7253.99	54.86	261.15	6964.97	27.00	10.88	273.28	1074.16	1019.67	19.71	
7500.00	7362.29	63.41	262.75	7020.48	26.85	9.80	273.25	1082.46	1027.55	19.71	
7600.00	7473.51	72.22	264.16	7062.44	27.05	9.32	273.03	1088.45	1032.61	19.49	
7700.00	7587.43	81.24	265.47	7088.57	27.66	9.74	272.66	1091.94	1034.66	19.06	
7800.00	7702.92	90.00	266.68	7097.00	28.62	11.02	272.31	1093.06	1033.91	18.48	
7900.00	7802.92	90.00	266.68	7097.00	29.63	11.48	272.31	1093.43	1032.09	17.83	
8000.00	7902.92	90.00	266.68	7097.00	30.87	11.98	272.31	1093.80	1029.81	17.09	
8100.00	8002.92	90.00	266.68	7097.00	32.30	12.50	272.30	1094.17	1027.24	16.35	

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
8200.00	8102.92	90.00	266.68	7097.00	33.90	13.04	272.30	1094.54	1024.39	15.60	
8300.00	8202.92	90.00	266.68	7097.00	35.65	13.60	272.30	1094.91	1021.19	14.85	
8400.00	8302.92	90.00	266.68	7097.00	37.52	14.18	272.30	1095.28	1017.70	14.12	
8500.00	8402.92	90.00	266.68	7097.00	39.50	14.77	272.30	1095.64	1014.03	13.42	
8600.00	8502.92	90.00	266.68	7097.00	41.58	15.38	272.30	1096.01	1010.19	12.77	
8700.00	8602.92	90.00	266.68	7097.00	43.74	15.99	272.30	1096.38	1006.21	12.16	
8800.00	8702.92	90.00	266.68	7097.00	45.97	16.62	272.30	1096.75	1002.09	11.59	
8900.00	8802.92	90.00	266.68	7097.00	48.25	17.25	272.30	1097.12	997.87	11.05	
9000.00	8902.91	90.00	266.68	7097.00	50.59	17.90	272.30	1097.49	993.55	10.56	
9100.00	9002.91	90.00	266.68	7097.00	52.97	18.55	272.30	1097.86	989.14	10.10	
9200.00	9102.91	90.00	266.68	7097.00	55.39	19.20	272.30	1098.23	984.65	9.67	
9300.00	9202.91	90.00	266.68	7097.00	57.85	19.86	272.30	1098.60	980.11	9.27	
9400.00	9302.91	90.00	266.68	7097.00	60.33	20.53	272.29	1098.97	975.50	8.90	
9500.00	9402.91	90.00	266.68	7097.00	62.84	21.20	272.29	1099.34	970.84	8.56	
9600.00	9502.91	90.00	266.68	7097.00	65.38	21.87	272.29	1099.71	966.14	8.23	
9700.00	9602.91	90.00	266.68	7097.00	67.93	22.55	272.29	1100.07	961.39	7.93	
9800.00	9702.91	90.00	266.68	7097.00	70.51	23.23	272.29	1100.44	956.61	7.65	
9900.00	9802.91	90.00	266.68	7097.00	73.10	23.91	272.29	1100.81	951.80	7.39	
10000.00	9902.91	90.00	266.68	7097.00	75.70	24.60	272.29	1101.18	946.96	7.14	
10100.00	10002.91	90.00	266.68	7097.00	78.32	25.29	272.29	1101.55	942.10	6.91	
10200.00	10102.91	90.00	266.68	7097.00	80.95	25.98	272.29	1101.92	937.21	6.69	
10300.00	10202.91	90.00	266.68	7097.00	83.59	26.68	272.29	1102.29	932.29	6.48	
10400.00	10302.91	90.00	266.68	7097.00	86.24	27.37	272.29	1102.66	927.36	6.29	
10500.00	10402.90	90.00	266.68	7097.00	88.90	28.07	272.29	1103.03	922.41	6.11	
10600.00	10502.90	90.00	266.68	7097.00	91.57	28.77	272.29	1103.40	917.45	5.93	
10700.00	10602.90	90.00	266.68	7097.00	94.25	29.47	272.28	1103.77	912.47	5.77	
10800.00	10702.90	90.00	266.68	7097.00	96.93	30.17	272.28	1104.14	907.48	5.61	
10900.00	10802.90	90.00	266.68	7097.00	99.62	30.88	272.28	1104.50	902.47	5.47	
11000.00	10902.90	90.00	266.68	7097.00	102.31	31.58	272.28	1104.87	897.45	5.33	
11100.00	11002.90	90.00	266.68	7097.00	105.01	32.29	272.28	1105.24	892.43	5.19	
11200.00	11102.90	90.00	266.68	7097.00	107.72	33.00	272.28	1105.61	887.39	5.07	
11300.00	11202.90	90.00	266.68	7097.00	110.43	33.71	272.28	1105.98	882.34	4.95	
11400.00	11302.90	90.00	266.68	7097.00	113.14	34.42	272.28	1106.35	877.29	4.83	
11500.00	11402.90	90.00	266.68	7097.00	115.86	35.13	272.28	1106.72	872.22	4.72	
11600.00	11502.90	90.00	266.68	7097.00	118.58	35.84	272.28	1107.09	867.15	4.61	
11700.00	11602.90	90.00	266.68	7097.00	121.31	36.55	272.28	1107.46	862.08	4.51	
11800.00	11702.90	90.00	266.68	7097.00	124.04	37.27	272.28	1107.83	856.99	4.42	
11900.00	11802.89	90.00	266.68	7097.00	126.77	37.98	272.28	1108.20	851.90	4.32	
12000.00	11902.89	90.00	266.68	7097.00	129.50	38.70	272.27	1108.57	846.81	4.24	
12100.00	12002.89	90.00	266.68	7097.00	132.24	39.41	272.27	1108.93	841.71	4.15	
12200.00	12102.89	90.00	266.68	7097.00	134.98	40.13	272.27	1109.30	836.60	4.07	
12300.00	12202.89	90.00	266.68	7097.00	137.72	40.84	272.27	1109.67	831.49	3.99	
12400.00	12302.89	90.00	266.68	7097.00	140.47	41.56	272.27	1110.04	826.38	3.91	
12500.00	12402.89	90.00	266.68	7097.00	143.21	42.28	272.27	1110.41	821.26	3.84	
12600.00	12502.89	90.00	266.68	7097.00	145.96	43.00	272.27	1110.78	816.13	3.77	
12700.00	12602.89	90.00	266.68	7097.00	148.71	43.72	272.27	1111.15	811.01	3.70	
12800.00	12702.89	90.00	266.68	7097.00	151.46	44.44	272.27	1111.52	805.88	3.64	
12900.00	12802.89	90.00	266.68	7097.00	154.21	45.16	272.27	1111.89	800.74	3.57	
13000.00	12902.89	90.00	266.68	7097.00	156.97	45.88	272.27	1112.26	795.61	3.51	
13100.00	13002.89	90.00	266.68	7097.00	159.73	46.60	272.27	1112.63	790.47	3.45	
13200.00	13102.89	90.00	266.68	7097.00	162.48	47.32	272.27	1113.00	785.33	3.40	
13300.00	13202.89	90.00	266.68	7097.00	165.24	48.04	272.26	1113.36	780.18	3.34	
13400.00	13302.88	90.00	266.68	7097.00	168.00	48.76	272.26	1113.73	775.03	3.29	
13500.00	13402.88	90.00	266.68	7097.00	170.77	49.48	272.26	1114.10	769.88	3.24	
13600.00	13502.88	90.00	266.68	7097.00	173.53	50.21	272.26	1114.47	764.73	3.19	
13700.00	13602.88	90.00	266.68	7097.00	176.29	50.93	272.26	1114.84	759.58	3.14	
13800.00	13702.88	90.00	266.68	7097.00	179.06	51.65	272.26	1115.21	754.42	3.09	
13900.00	13802.88	90.00	266.68	7097.00	181.82	52.38	272.26	1115.58	749.26	3.05	

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
14000.00	13902.88	90.00	266.68	7097.00	184.59	53.10	272.26	1115.95	744.10	3.00	
14100.00	14002.88	90.00	266.68	7097.00	187.36	53.82	272.26	1116.32	738.94	2.96	
14200.00	14102.88	90.00	266.68	7097.00	190.13	54.55	272.26	1116.69	733.77	2.92	
14300.00	14202.88	90.00	266.68	7097.00	192.90	55.27	272.26	1117.06	728.61	2.88	
14400.00	14302.88	90.00	266.68	7097.00	195.67	56.00	272.26	1117.43	723.44	2.84	
14500.00	14402.88	90.00	266.68	7097.00	198.44	56.72	272.26	1117.79	718.27	2.80	
14600.00	14502.88	90.00	266.68	7097.00	201.21	57.45	272.26	1118.16	713.10	2.76	
14700.00	14602.88	90.00	266.68	7097.00	203.98	58.17	272.25	1118.53	707.93	2.72	
14800.00	14702.88	90.00	266.68	7097.00	206.76	58.90	272.25	1118.90	702.76	2.69	
14900.00	14802.87	90.00	266.68	7097.00	209.53	59.62	272.25	1119.27	697.58	2.65	
15000.00	14902.87	90.00	266.68	7097.00	212.30	60.35	272.25	1119.64	692.41	2.62	
15100.00	15002.87	90.00	266.68	7097.00	215.08	61.07	272.25	1120.01	687.23	2.59	
15200.00	15102.87	90.00	266.68	7097.00	217.86	61.80	272.25	1120.38	682.05	2.56	
15300.00	15202.87	90.00	266.68	7097.00	220.63	62.53	272.25	1120.75	676.87	2.52	
15400.00	15302.87	90.00	266.68	7097.00	223.41	63.25	272.25	1121.12	671.69	2.49	SF(Lo)
15500.00	15402.87	90.00	266.68	7097.00	226.19	63.98	272.25	1121.49	666.51	2.46	SF(Lo)
15600.00	15502.87	90.00	266.68	7097.00	228.96	64.71	272.25	1121.86	661.33	2.44	SF(Lo)
15644.54	15547.41	90.00	266.68	7097.00	230.20	65.03	272.25	1122.02	659.02	2.42	SF(Lo)

Secondary Well: Goetzel 33N-30B-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
0.00	0.00	0.00	0.00	0.00	0.00	0.00	180.08	119.86	119.13	163.45	
100.00	100.00	0.00	0.00	100.00	0.11	0.11	180.08	119.86	118.91	125.65	
200.00	200.00	0.00	0.00	200.00	0.34	0.34	180.08	119.86	118.46	85.40	
300.00	300.00	0.00	0.00	300.00	0.56	0.56	180.08	119.86	118.01	64.68	
400.00	400.00	0.00	0.00	400.00	0.79	0.79	180.08	119.86	117.56	52.05	
500.00	500.00	0.00	0.00	500.00	1.01	1.01	180.08	119.86	117.11	43.55	
600.00	600.00	0.00	0.00	600.00	1.24	1.24	180.08	119.86	116.66	37.44	
700.00	700.00	0.00	0.00	700.00	1.46	1.46	180.08	119.86	116.21	32.83	
800.00	800.00	0.00	0.00	800.00	1.69	1.69	180.08	119.86	115.76	29.23	
900.00	900.00	0.00	0.00	900.00	1.91	1.91	180.08	119.86	115.31	26.34	
1000.00	1000.00	0.00	0.00	1000.00	2.14	2.14	180.08	119.86	114.86	23.97	
1100.00	1097.69	1.95	123.78	1097.67	2.33	2.33	179.43	120.81	115.40	22.30	
1200.00	1195.16	3.90	123.78	1195.01	2.52	2.51	177.52	123.77	117.95	21.25	
1300.00	1292.18	5.84	123.78	1291.67	2.72	2.70	174.56	128.99	122.75	20.69	
1400.00	1388.53	7.77	123.78	1387.34	2.94	2.88	170.84	136.81	130.15	20.54	
1500.00	1484.00	9.68	123.78	1481.70	3.19	3.07	166.69	147.62	140.52	20.80	
1600.00	1578.40	11.57	123.78	1574.48	3.47	3.26	162.43	161.69	154.16	21.46	
1700.00	1671.54	13.43	123.78	1665.41	3.80	3.46	158.33	179.23	171.25	22.45	
1800.00	1763.26	15.27	123.78	1754.26	4.17	3.66	154.54	200.30	191.91	23.88	
1900.00	1853.72	17.07	123.78	1841.14	4.59	3.86	73.06	224.39	215.57	25.45	
2000.00	1948.36	17.55	123.78	1931.40	5.07	4.09	70.58	249.91	240.64	26.95	
2100.00	2045.17	17.55	123.78	2023.71	5.60	4.34	69.13	274.58	264.83	28.14	
2200.00	2142.36	17.55	123.78	2116.37	6.15	4.60	68.52	298.08	287.78	28.95	
2300.00	2239.82	17.55	123.78	2209.29	6.71	4.86	68.55	320.34	309.50	29.54	
2400.00	2337.42	17.55	123.78	2302.35	7.29	5.13	69.10	341.42	329.95	29.78	
2500.00	2435.05	17.55	123.78	2395.43	7.88	5.40	70.09	361.41	349.27	29.76	
2600.00	2532.58	17.55	123.78	2488.42	8.47	5.67	71.45	380.50	367.58	29.45	
2700.00	2629.93	17.55	123.78	2581.24	9.06	5.95	73.23	398.99	385.22	28.97	
2800.00	2727.23	17.55	123.78	2674.01	9.66	6.23	75.13	417.76	403.06	28.41	
2900.00	2824.53	17.55	123.78	2766.78	10.27	6.51	76.86	436.95	421.27	27.87	
3000.00	2921.83	17.55	123.78	2859.55	10.88	6.79	78.46	456.49	439.79	27.34	
3100.00	3019.13	17.55	123.78	2952.32	11.48	7.08	79.92	476.35	458.62	26.86	
3200.00	3116.43	17.55	123.78	3045.10	12.10	7.36	81.26	496.48	477.71	26.44	
3300.00	3213.74	17.55	123.78	3137.87	12.71	7.65	82.51	516.87	497.04	26.07	
3400.00	3311.04	17.55	123.78	3230.64	13.33	7.94	83.65	537.47	516.56	25.71	
3500.00	3408.34	17.55	123.78	3323.41	13.94	8.23	84.72	558.26	536.24	25.36	

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
3600.00	3505.64	17.55	123.78	3416.18	14.56	8.52	85.71	579.23	556.07	25.02	
3700.00	3602.94	17.55	123.78	3508.95	15.18	8.81	86.63	600.35	576.06	24.72	
3800.00	3700.24	17.55	123.78	3601.72	15.80	9.10	87.48	621.61	596.18	24.44	
3900.00	3797.55	17.55	123.78	3694.50	16.42	9.39	88.28	642.99	616.42	24.20	
4000.00	3894.85	17.55	123.78	3787.27	17.04	9.69	89.03	664.49	636.76	23.97	
4100.00	3992.15	17.55	123.78	3880.04	17.67	9.98	89.74	686.09	657.21	23.76	
4200.00	4089.45	17.55	123.78	3972.81	18.29	10.27	90.40	707.78	677.75	23.57	
4300.00	4186.75	17.55	123.78	4065.58	18.91	10.57	91.02	729.56	698.38	23.40	
4400.00	4284.05	17.55	123.78	4158.35	19.54	10.86	91.60	751.42	719.08	23.24	
4500.00	4381.36	17.55	123.78	4251.12	20.16	11.16	92.15	773.34	739.86	23.09	
4600.00	4478.66	17.55	123.78	4343.90	20.79	11.45	92.68	795.33	760.69	22.96	
4700.00	4575.96	17.55	123.78	4436.67	21.41	11.75	93.17	817.38	781.59	22.84	
4800.00	4673.26	17.55	123.78	4529.44	22.04	12.05	93.64	839.49	802.54	22.72	
4900.00	4770.56	17.55	123.78	4622.21	22.66	12.34	94.08	861.65	823.53	22.61	
5000.00	4867.86	17.55	123.78	4714.98	23.29	12.64	94.50	883.85	844.56	22.50	
5100.00	4965.16	17.55	123.78	4807.75	23.91	12.94	94.90	906.10	865.63	22.39	
5200.00	5062.47	17.55	123.78	4900.52	24.54	13.23	95.29	928.38	886.74	22.30	
5300.00	5159.77	17.55	123.78	4993.29	25.17	13.53	95.65	950.71	907.89	22.21	
5400.00	5257.07	17.55	123.78	5086.07	25.80	13.83	96.00	973.07	929.08	22.12	
5500.00	5354.37	17.55	123.78	5178.84	26.42	14.13	96.33	995.46	950.30	22.04	
5600.00	5451.67	17.55	123.78	5271.61	27.05	14.42	96.65	1017.88	971.55	21.97	
5700.00	5548.97	17.55	123.78	5364.38	27.68	14.72	96.95	1040.33	992.82	21.90	
5800.00	5646.28	17.55	123.78	5457.15	28.31	15.02	97.24	1062.81	1014.13	21.83	
5900.00	5743.58	17.55	123.78	5549.92	28.93	15.32	97.52	1085.32	1035.46	21.77	
6000.00	5840.88	17.55	123.78	5642.69	29.56	15.62	97.79	1107.84	1056.81	21.71	
6100.00	5938.18	17.55	123.78	5735.47	30.19	15.92	98.05	1130.39	1078.19	21.65	
6200.00	6035.48	17.55	123.78	5828.24	30.82	16.22	98.29	1152.96	1099.59	21.60	
6300.00	6132.78	17.55	123.78	5921.01	31.45	16.51	98.53	1175.55	1121.01	21.55	
6400.00	6230.09	17.55	123.78	6013.78	32.08	16.81	98.97	1198.16	1142.44	21.51	
6500.00	6322.98	13.90	136.44	6102.92	32.52	17.07	108.95	1220.88	1164.42	21.62	
6600.00	6413.83	10.68	167.67	6191.78	32.58	17.16	169.00	1243.77	1186.97	21.90	
6700.00	6504.94	11.81	205.28	6281.26	32.35	17.05	254.28	1266.42	1209.58	22.28	
6800.00	6596.57	16.47	228.94	6370.16	31.85	16.74	266.18	1288.39	1231.77	22.76	
6900.00	6688.97	22.61	241.38	6457.23	31.14	16.21	270.97	1309.28	1253.08	23.30	
7000.00	6782.37	29.39	248.61	6541.15	30.28	15.45	273.86	1328.69	1273.04	23.87	
7100.00	6876.99	36.52	253.33	6620.50	29.38	14.47	275.86	1346.28	1291.19	24.44	
7200.00	6972.98	43.88	256.72	6693.77	28.52	13.28	277.31	1361.71	1307.06	24.92	
7300.00	7070.46	51.44	259.34	6759.39	27.82	11.97	278.36	1374.69	1320.26	25.26	
7400.00	7169.50	59.16	261.48	6815.73	27.38	10.68	279.05	1384.97	1330.46	25.41	
7500.00	7270.08	67.04	263.34	6861.20	27.28	9.69	279.44	1392.35	1337.35	25.31	
7600.00	7372.14	75.05	265.01	6894.33	27.56	9.36	279.53	1396.68	1340.73	24.96	
7700.00	7475.54	83.18	266.57	6913.84	28.21	9.96	279.34	1397.87	1340.51	24.37	
7800.00	7579.28	90.00	267.85	6919.00	29.15	11.22	279.15	1396.50	1337.38	23.62	
7900.00	7679.27	90.00	267.85	6919.00	30.21	11.71	279.16	1394.85	1333.45	22.72	
8000.00	7779.25	90.00	267.85	6919.00	31.46	12.22	279.17	1393.21	1329.20	21.77	
8100.00	7879.24	90.00	267.85	6919.00	32.91	12.77	279.18	1391.56	1324.71	20.82	
8200.00	7979.23	90.00	267.85	6919.00	34.52	13.33	279.19	1389.92	1319.70	19.79	
8300.00	8079.21	90.00	267.85	6919.00	36.28	13.92	279.20	1388.27	1314.53	18.82	
8400.00	8179.20	90.00	267.85	6919.00	38.16	14.52	279.21	1386.63	1309.19	17.91	
8500.00	8279.18	90.00	267.85	6919.00	40.15	15.13	279.23	1384.98	1303.57	17.01	
8600.00	8379.17	90.00	267.85	6919.00	42.23	15.76	279.24	1383.34	1297.73	16.16	
8700.00	8479.16	90.00	267.85	6919.00	44.39	16.39	279.25	1381.69	1291.77	15.36	
8800.00	8579.14	90.00	267.85	6919.00	46.62	17.03	279.26	1380.05	1285.68	14.62	
8900.00	8679.13	90.00	267.85	6919.00	48.91	17.68	279.27	1378.40	1279.50	13.94	
9000.00	8779.11	90.00	267.85	6919.00	51.25	18.34	279.28	1376.76	1273.22	13.30	
9100.00	8879.10	90.00	267.85	6919.00	53.63	19.00	279.29	1375.11	1266.85	12.70	
9200.00	8979.09	90.00	267.85	6919.00	56.05	19.67	279.30	1373.47	1260.42	12.15	
9300.00	9079.07	90.00	267.85	6919.00	58.51	20.34	279.31	1371.82	1253.92	11.64	

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
9400.00	9179.06	90.00	267.85	6919.00	60.99	21.01	279.33	1370.18	1247.36	11.16	
9500.00	9279.04	90.00	267.85	6919.00	63.51	21.69	279.34	1368.54	1240.76	10.71	
9600.00	9379.03	90.00	267.85	6919.00	66.04	22.38	279.35	1366.89	1234.11	10.29	
9700.00	9479.02	90.00	267.85	6919.00	68.60	23.06	279.36	1365.25	1227.42	9.91	
9800.00	9579.00	90.00	267.85	6919.00	71.18	23.75	279.37	1363.60	1220.69	9.54	
9900.00	9678.99	90.00	267.85	6919.00	73.77	24.44	279.38	1361.96	1213.94	9.20	
10000.00	9778.98	90.00	267.85	6919.00	76.38	25.13	279.39	1360.31	1207.15	8.88	
10100.00	9878.96	90.00	267.85	6919.00	79.00	25.83	279.41	1358.67	1200.34	8.58	
10200.00	9978.95	90.00	267.85	6919.00	81.63	26.53	279.42	1357.03	1193.51	8.30	
10300.00	10078.93	90.00	267.85	6919.00	84.27	27.22	279.43	1355.38	1186.66	8.03	
10400.00	10178.92	90.00	267.85	6919.00	86.93	27.92	279.44	1353.74	1179.79	7.78	
10500.00	10278.91	90.00	267.85	6919.00	89.59	28.63	279.45	1352.09	1172.90	7.55	
10600.00	10378.89	90.00	267.85	6919.00	92.26	29.33	279.46	1350.45	1165.99	7.32	
10700.00	10478.88	90.00	267.85	6919.00	94.94	30.04	279.47	1348.81	1159.07	7.11	
10800.00	10578.86	90.00	267.85	6919.00	97.63	30.74	279.49	1347.16	1152.14	6.91	
10900.00	10678.85	90.00	267.85	6919.00	100.32	31.45	279.50	1345.52	1145.20	6.72	
11000.00	10778.84	90.00	267.85	6919.00	103.02	32.16	279.51	1343.87	1138.24	6.54	
11100.00	10878.82	90.00	267.85	6919.00	105.72	32.87	279.52	1342.23	1131.28	6.36	
11200.00	10978.81	90.00	267.85	6919.00	108.43	33.58	279.53	1340.59	1124.31	6.20	
11300.00	11078.79	90.00	267.85	6919.00	111.14	34.29	279.55	1338.94	1117.32	6.04	
11400.00	11178.78	90.00	267.85	6919.00	113.86	35.00	279.56	1337.30	1110.33	5.89	
11500.00	11278.77	90.00	267.85	6919.00	116.58	35.72	279.57	1335.66	1103.33	5.75	
11600.00	11378.75	90.00	267.85	6919.00	119.31	36.43	279.58	1334.01	1096.33	5.61	
11700.00	11478.74	90.00	267.85	6919.00	122.04	37.14	279.59	1332.37	1089.32	5.48	
11800.00	11578.73	90.00	267.85	6919.00	124.77	37.86	279.60	1330.73	1082.30	5.36	
11900.00	11678.71	90.00	267.85	6919.00	127.50	38.58	279.62	1329.08	1075.28	5.24	
12000.00	11778.70	90.00	267.85	6919.00	130.24	39.29	279.63	1327.44	1068.25	5.12	
12100.00	11878.68	90.00	267.85	6919.00	132.98	40.01	279.64	1325.80	1061.22	5.01	
12200.00	11978.67	90.00	267.85	6919.00	135.73	40.73	279.65	1324.15	1054.18	4.90	
12300.00	12078.66	90.00	267.85	6919.00	138.47	41.45	279.66	1322.51	1047.14	4.80	
12400.00	12178.64	90.00	267.85	6919.00	141.22	42.16	279.68	1320.87	1040.09	4.70	
12500.00	12278.63	90.00	267.85	6919.00	143.97	42.88	279.69	1319.23	1033.05	4.61	
12600.00	12378.61	90.00	267.85	6919.00	146.72	43.60	279.70	1317.58	1025.99	4.52	
12700.00	12478.60	90.00	267.85	6919.00	149.48	44.32	279.71	1315.94	1018.94	4.43	
12800.00	12578.59	90.00	267.85	6919.00	152.23	45.04	279.73	1314.30	1011.88	4.35	
12900.00	12678.57	90.00	267.85	6919.00	154.99	45.77	279.74	1312.66	1004.82	4.26	
13000.00	12778.56	90.00	267.85	6919.00	157.75	46.49	279.75	1311.01	997.76	4.19	
13100.00	12878.55	90.00	267.85	6919.00	160.51	47.21	279.76	1309.37	990.69	4.11	
13200.00	12978.53	90.00	267.85	6919.00	163.27	47.93	279.78	1307.73	983.62	4.03	
13300.00	13078.52	90.00	267.85	6919.00	166.04	48.65	279.79	1306.09	976.55	3.96	
13400.00	13178.50	90.00	267.85	6919.00	168.80	49.38	279.80	1304.44	969.48	3.89	
13500.00	13278.49	90.00	267.85	6919.00	171.57	50.10	279.81	1302.80	962.40	3.83	
13600.00	13378.48	90.00	267.85	6919.00	174.34	50.82	279.83	1301.16	955.33	3.76	
13700.00	13478.46	90.00	267.85	6919.00	177.10	51.55	279.84	1299.52	948.25	3.70	
13800.00	13578.45	90.00	267.85	6919.00	179.87	52.27	279.85	1297.87	941.17	3.64	
13900.00	13678.43	90.00	267.85	6919.00	182.64	52.99	279.86	1296.23	934.09	3.58	
14000.00	13778.42	90.00	267.85	6919.00	185.42	53.72	279.88	1294.59	927.01	3.52	
14100.00	13878.41	90.00	267.85	6919.00	188.19	54.44	279.89	1292.95	919.92	3.47	
14200.00	13978.39	90.00	267.85	6919.00	190.96	55.17	279.90	1291.31	912.84	3.41	
14300.00	14078.38	90.00	267.85	6919.00	193.74	55.89	279.91	1289.67	905.75	3.36	
14400.00	14178.36	90.00	267.85	6919.00	196.51	56.62	279.93	1288.02	898.66	3.31	
14500.00	14278.35	90.00	267.85	6919.00	199.29	57.34	279.94	1286.38	891.58	3.26	
14600.00	14378.34	90.00	267.85	6919.00	202.06	58.07	279.95	1284.74	884.49	3.21	
14700.00	14478.32	90.00	267.85	6919.00	204.84	58.79	279.96	1283.10	877.40	3.16	
14800.00	14578.31	90.00	267.85	6919.00	207.62	59.52	279.98	1281.46	870.31	3.12	
14900.00	14678.30	90.00	267.85	6919.00	210.40	60.25	279.99	1279.82	863.21	3.07	
15000.00	14778.28	90.00	267.85	6919.00	213.18	60.97	280.00	1278.18	856.12	3.03	
15100.00	14878.27	90.00	267.85	6919.00	215.96	61.70	280.02	1276.53	849.03	2.99	

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
15200.00	14978.25	90.00	267.85	6919.00	218.74	62.43	280.03	1274.89	841.94	2.94	
15300.00	15078.24	90.00	267.85	6919.00	221.52	63.15	280.04	1273.25	834.84	2.90	
15400.00	15178.23	90.00	267.85	6919.00	224.30	63.88	280.06	1271.61	827.75	2.86	
15500.00	15278.21	90.00	267.85	6919.00	227.08	64.61	280.07	1269.97	820.65	2.83	
15600.00	15378.20	90.00	267.85	6919.00	229.86	65.33	280.08	1268.33	813.56	2.79	
15644.54	15422.73	90.00	267.85	6919.00	231.10	65.66	280.09	1267.60	810.40	2.77	
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	180.01	139.90	139.16	190.77	
100.00	100.00	0.00	0.00	100.00	0.11	0.11	180.01	139.90	138.94	146.65	
200.00	200.00	0.00	0.00	200.00	0.34	0.34	180.01	139.90	138.49	99.68	
300.00	300.00	0.00	0.00	300.00	0.56	0.56	180.01	139.90	138.04	75.49	
400.00	400.00	0.00	0.00	400.00	0.79	0.79	180.01	139.90	137.59	60.76	
500.00	500.00	0.00	0.00	500.00	1.01	1.01	180.01	139.90	137.14	50.83	
600.00	600.00	0.00	0.00	600.00	1.24	1.24	180.01	139.90	136.69	43.69	
700.00	700.00	0.00	0.00	700.00	1.46	1.46	180.01	139.90	136.24	38.31	
800.00	800.00	0.00	0.00	800.00	1.69	1.69	180.01	139.90	135.80	34.11	
900.00	898.57	0.97	127.01	898.57	1.90	1.90	179.87	140.15	135.62	30.92	
1000.00	995.59	2.91	127.01	995.53	2.08	2.07	178.82	142.22	137.28	28.79	
1100.00	1092.28	4.85	127.01	1091.99	2.27	2.26	176.80	146.51	141.16	27.42	
1200.00	1188.42	6.77	127.01	1187.64	2.48	2.45	174.01	153.25	147.48	26.57	
1300.00	1283.81	8.68	127.01	1282.15	2.72	2.64	170.69	162.74	156.53	26.21	
1400.00	1378.23	10.56	127.01	1375.24	3.00	2.83	167.09	175.27	168.62	26.37	
1500.00	1471.51	12.43	127.01	1466.64	3.31	3.03	163.44	191.05	183.96	26.94	
1600.00	1563.46	14.27	127.01	1556.11	3.67	3.23	159.93	210.22	202.66	27.83	
1700.00	1653.94	16.08	127.01	1643.43	4.07	3.44	156.66	232.81	224.83	29.18	
1800.00	1744.72	17.39	127.01	1730.28	4.52	3.65	153.65	258.70	250.28	30.72	
1900.00	1840.48	17.39	127.01	1821.66	5.04	3.90	72.79	285.45	276.55	32.09	
2000.00	1936.80	17.39	127.01	1913.58	5.58	4.16	70.97	311.48	302.10	33.21	
2100.00	2033.57	17.39	127.01	2005.94	6.14	4.42	69.95	336.49	326.62	34.08	
2200.00	2130.68	17.39	127.01	2098.60	6.72	4.69	69.56	360.36	349.94	34.60	
2300.00	2227.99	17.39	127.01	2191.48	7.30	4.96	69.69	383.05	372.08	34.91	
2400.00	2325.41	17.39	127.01	2284.44	7.89	5.24	70.26	404.64	393.04	34.87	
2500.00	2422.80	17.39	127.01	2377.38	8.48	5.51	71.19	425.25	412.96	34.62	
2600.00	2520.05	17.39	127.01	2470.19	9.08	5.79	72.44	445.03	431.97	34.07	
2700.00	2617.06	17.39	127.01	2562.77	9.68	6.08	74.09	464.28	450.34	33.31	
2800.00	2714.02	17.39	127.01	2655.30	10.28	6.36	75.88	483.83	468.96	32.53	
2900.00	2810.99	17.39	127.01	2747.84	10.88	6.64	77.53	503.81	487.98	31.84	
3000.00	2907.95	17.39	127.01	2840.37	11.49	6.93	79.06	524.17	507.34	31.16	
3100.00	3004.91	17.39	127.01	2932.90	12.10	7.22	80.48	544.87	527.01	30.51	
3200.00	3101.87	17.39	127.01	3025.43	12.71	7.50	81.79	565.86	546.96	29.94	
3300.00	3198.84	17.39	127.01	3117.97	13.32	7.79	83.01	587.13	567.17	29.42	
3400.00	3295.80	17.39	127.01	3210.50	13.93	8.08	84.15	608.64	587.60	28.93	
3500.00	3392.76	17.39	127.01	3303.03	14.54	8.37	85.21	630.36	608.23	28.49	
3600.00	3489.72	17.39	127.01	3395.57	15.16	8.66	86.20	652.27	629.05	28.09	
3700.00	3586.69	17.39	127.01	3488.10	15.77	8.95	87.12	674.36	650.01	27.69	
3800.00	3683.65	17.39	127.01	3580.63	16.38	9.25	87.99	696.61	671.12	27.33	
3900.00	3780.61	17.39	127.01	3673.16	17.00	9.54	88.80	719.00	692.38	27.00	
4000.00	3877.57	17.39	127.01	3765.70	17.62	9.83	89.57	741.53	713.76	26.71	
4100.00	3974.54	17.39	127.01	3858.23	18.23	10.13	90.29	764.17	735.26	26.43	
4200.00	4071.50	17.39	127.01	3950.76	18.85	10.42	90.96	786.92	756.86	26.18	
4300.00	4168.46	17.39	127.01	4043.30	19.47	10.71	91.60	809.77	778.57	25.95	
4400.00	4265.42	17.39	127.01	4135.83	20.08	11.01	92.21	832.71	800.37	25.74	
4500.00	4362.38	17.39	127.01	4228.36	20.70	11.30	92.78	855.74	822.25	25.55	
4600.00	4459.35	17.39	127.01	4320.89	21.32	11.60	93.33	878.84	844.21	25.37	
4700.00	4556.31	17.39	127.01	4413.43	21.94	11.89	93.84	902.02	866.24	25.21	

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
4800.00	4653.27	17.39	127.01	4505.96	22.56	12.19	94.33	925.26	888.33	25.06	
4900.00	4750.23	17.39	127.01	4598.49	23.18	12.48	94.80	948.56	910.49	24.92	
5000.00	4847.20	17.39	127.01	4691.03	23.79	12.78	95.24	971.92	932.71	24.79	
5100.00	4944.16	17.39	127.01	4783.56	24.41	13.08	95.67	995.33	954.98	24.66	
5200.00	5041.12	17.39	127.01	4876.09	25.03	13.37	96.07	1018.79	977.30	24.55	
5300.00	5138.08	17.39	127.01	4968.62	25.65	13.67	96.46	1042.30	999.65	24.44	
5400.00	5235.05	17.39	127.01	5061.16	26.27	13.96	96.83	1065.85	1022.04	24.33	
5500.00	5332.01	17.39	127.01	5153.69	26.89	14.26	97.18	1089.44	1044.47	24.22	
5600.00	5428.97	17.39	127.01	5246.22	27.51	14.56	97.52	1113.07	1066.93	24.13	
5700.00	5525.93	17.39	127.01	5338.76	28.13	14.85	97.84	1136.73	1089.44	24.03	
5800.00	5622.90	17.39	127.01	5431.29	28.75	15.15	98.15	1160.43	1111.97	23.95	
5900.00	5719.86	17.39	127.01	5523.82	29.37	15.45	98.45	1184.16	1134.54	23.87	
6000.00	5816.82	17.39	127.01	5616.35	29.99	15.75	98.74	1207.91	1157.14	23.79	
6100.00	5913.78	17.39	127.01	5708.89	30.61	16.04	99.01	1231.70	1179.75	23.71	
6200.00	6010.75	17.39	127.01	5801.42	31.23	16.34	99.28	1255.51	1202.40	23.64	
6300.00	6107.71	17.39	127.01	5893.95	31.86	16.64	99.53	1279.34	1225.06	23.57	
6400.00	6204.67	17.39	127.01	5986.49	32.48	16.93	100.00	1303.20	1247.75	23.50	
6500.00	6301.71	17.39	127.01	6079.09	33.10	17.23	100.96	1326.92	1270.61	23.56	
6600.00	6389.91	14.54	138.22	6163.64	33.56	17.49	169.62	1350.35	1293.61	23.80	
6700.00	6474.06	11.75	165.54	6245.65	33.61	17.60	254.50	1373.86	1317.11	24.21	
6800.00	6559.61	12.44	198.48	6329.41	33.36	17.56	266.03	1397.15	1340.63	24.72	
6900.00	6646.99	16.35	222.16	6414.10	32.83	17.35	270.47	1419.84	1363.74	25.31	
7000.00	6736.65	21.98	235.88	6498.80	32.05	16.94	273.03	1441.56	1385.93	25.91	
7100.00	6829.06	28.49	244.17	6582.37	31.05	16.32	274.73	1461.95	1406.84	26.53	
7200.00	6924.72	35.57	249.69	6663.43	29.94	15.43	275.89	1480.65	1426.04	27.11	
7300.00	7024.11	43.11	253.68	6740.26	28.82	14.26	276.67	1497.32	1443.06	27.60	
7400.00	7127.68	51.08	256.79	6810.73	27.85	12.84	277.11	1511.62	1457.46	27.91	
7500.00	7235.81	59.47	259.36	6872.28	27.21	11.29	277.26	1523.25	1468.77	27.96	
7600.00	7348.69	68.27	261.61	6921.96	27.03	9.99	277.14	1531.90	1476.60	27.70	
7700.00	7466.31	77.47	263.68	6956.57	27.39	9.58	276.77	1537.29	1480.59	27.11	
7800.00	7588.65	87.05	265.68	6973.03	28.29	10.61	276.26	1539.68	1481.00	26.24	
7900.00	7696.11	90.00	266.28	6974.00	29.34	11.54	276.22	1540.81	1479.91	25.30	
8000.00	7796.10	90.00	266.28	6974.00	30.50	12.04	276.22	1541.87	1478.50	24.33	
8100.00	7896.10	90.00	266.28	6974.00	31.86	12.57	276.21	1542.93	1476.67	23.29	
8200.00	7996.09	90.00	266.28	6974.00	33.39	13.13	276.21	1543.98	1474.52	22.23	
8300.00	8096.09	90.00	266.28	6974.00	35.09	13.71	276.21	1545.04	1472.06	21.17	
8400.00	8196.08	90.00	266.28	6974.00	36.91	14.31	276.20	1546.09	1469.37	20.15	
8500.00	8296.08	90.00	266.28	6974.00	38.85	14.92	276.20	1547.15	1466.59	19.21	
8600.00	8396.07	90.00	266.28	6974.00	40.89	15.55	276.19	1548.21	1463.42	18.26	
8700.00	8496.06	90.00	266.28	6974.00	43.01	16.18	276.19	1549.26	1460.15	17.38	
8800.00	8596.06	90.00	266.28	6974.00	45.21	16.83	276.18	1550.32	1456.76	16.57	
8900.00	8696.05	90.00	266.28	6974.00	47.47	17.48	276.18	1551.37	1453.27	15.81	
9000.00	8796.05	90.00	266.28	6974.00	49.78	18.13	276.18	1552.43	1449.68	15.11	
9100.00	8896.04	90.00	266.28	6974.00	52.14	18.79	276.17	1553.49	1446.00	14.45	
9200.00	8996.04	90.00	266.28	6974.00	54.54	19.46	276.17	1554.54	1442.25	13.84	
9300.00	9096.03	90.00	266.28	6974.00	56.98	20.13	276.16	1555.60	1438.43	13.28	
9400.00	9196.03	90.00	266.28	6974.00	59.45	20.81	276.16	1556.65	1434.55	12.75	
9500.00	9296.02	90.00	266.28	6974.00	61.95	21.49	276.15	1557.71	1430.62	12.26	
9600.00	9396.01	90.00	266.28	6974.00	64.47	22.17	276.15	1558.77	1426.64	11.80	
9700.00	9496.01	90.00	266.28	6974.00	67.01	22.86	276.15	1559.82	1422.62	11.37	
9800.00	9596.00	90.00	266.28	6974.00	69.58	23.55	276.14	1560.88	1418.56	10.97	
9900.00	9696.00	90.00	266.28	6974.00	72.16	24.24	276.14	1561.94	1414.47	10.59	
10000.00	9795.99	90.00	266.28	6974.00	74.75	24.93	276.13	1562.99	1410.35	10.24	
10100.00	9895.99	90.00	266.28	6974.00	77.36	25.62	276.13	1564.05	1406.21	9.91	
10200.00	9995.98	90.00	266.28	6974.00	79.98	26.32	276.13	1565.10	1402.04	9.60	
10300.00	10095.97	90.00	266.28	6974.00	82.62	27.02	276.12	1566.16	1397.84	9.30	
10400.00	10195.97	90.00	266.28	6974.00	85.26	27.72	276.12	1567.22	1393.63	9.03	
10500.00	10295.96	90.00	266.28	6974.00	87.92	28.42	276.11	1568.27	1389.40	8.77	

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
10600.00	10395.96	90.00	266.28	6974.00	90.58	29.13	276.11	1569.33	1385.16	8.52	
10700.00	10495.95	90.00	266.28	6974.00	93.25	29.83	276.10	1570.38	1380.90	8.29	
10800.00	10595.95	90.00	266.28	6974.00	95.93	30.54	276.10	1571.44	1376.62	8.07	
10900.00	10695.94	90.00	266.28	6974.00	98.61	31.25	276.10	1572.50	1372.33	7.86	
11000.00	10795.94	90.00	266.28	6974.00	101.30	31.95	276.09	1573.55	1368.03	7.66	
11100.00	10895.93	90.00	266.28	6974.00	103.99	32.66	276.09	1574.61	1363.72	7.47	
11200.00	10995.92	90.00	266.28	6974.00	106.69	33.37	276.08	1575.67	1359.40	7.29	
11300.00	11095.92	90.00	266.28	6974.00	109.40	34.09	276.08	1576.72	1355.07	7.11	
11400.00	11195.91	90.00	266.28	6974.00	112.11	34.80	276.08	1577.78	1350.74	6.95	
11500.00	11295.91	90.00	266.28	6974.00	114.82	35.51	276.07	1578.84	1346.39	6.79	
11600.00	11395.90	90.00	266.28	6974.00	117.54	36.22	276.07	1579.89	1342.03	6.64	
11700.00	11495.90	90.00	266.28	6974.00	120.26	36.94	276.06	1580.95	1337.67	6.50	
11800.00	11595.89	90.00	266.28	6974.00	122.99	37.65	276.06	1582.00	1333.31	6.36	
11900.00	11695.88	90.00	266.28	6974.00	125.72	38.37	276.06	1583.06	1328.93	6.23	
12000.00	11795.88	90.00	266.28	6974.00	128.45	39.09	276.05	1584.12	1324.55	6.10	
12100.00	11895.87	90.00	266.28	6974.00	131.18	39.80	276.05	1585.17	1320.17	5.98	
12200.00	11995.87	90.00	266.28	6974.00	133.92	40.52	276.04	1586.23	1315.78	5.87	
12300.00	12095.86	90.00	266.28	6974.00	136.66	41.24	276.04	1587.29	1311.39	5.75	
12400.00	12195.86	90.00	266.28	6974.00	139.40	41.96	276.04	1588.34	1306.99	5.65	
12500.00	12295.85	90.00	266.28	6974.00	142.14	42.68	276.03	1589.40	1302.58	5.54	
12600.00	12395.84	90.00	266.28	6974.00	144.88	43.40	276.03	1590.46	1298.18	5.44	
12700.00	12495.84	90.00	266.28	6974.00	147.63	44.12	276.02	1591.51	1293.76	5.35	
12800.00	12595.83	90.00	266.28	6974.00	150.38	44.84	276.02	1592.57	1289.35	5.25	
12900.00	12695.83	90.00	266.28	6974.00	153.13	45.56	276.02	1593.62	1284.93	5.16	
13000.00	12795.82	90.00	266.28	6974.00	155.88	46.28	276.01	1594.68	1280.51	5.08	
13100.00	12895.82	90.00	266.28	6974.00	158.64	47.00	276.01	1595.74	1276.09	4.99	
13200.00	12995.81	90.00	266.28	6974.00	161.39	47.72	276.00	1596.79	1271.66	4.91	
13300.00	13095.81	90.00	266.28	6974.00	164.15	48.45	276.00	1597.85	1267.23	4.83	
13400.00	13195.80	90.00	266.28	6974.00	166.90	49.17	276.00	1598.91	1262.80	4.76	
13500.00	13295.79	90.00	266.28	6974.00	169.66	49.89	275.99	1599.96	1258.36	4.68	
13600.00	13395.79	90.00	266.28	6974.00	172.42	50.62	275.99	1601.02	1253.92	4.61	
13700.00	13495.78	90.00	266.28	6974.00	175.18	51.34	275.98	1602.08	1249.48	4.54	
13800.00	13595.78	90.00	266.28	6974.00	177.95	52.06	275.98	1603.13	1245.04	4.48	
13900.00	13695.77	90.00	266.28	6974.00	180.71	52.79	275.98	1604.19	1240.60	4.41	
14000.00	13795.77	90.00	266.28	6974.00	183.47	53.51	275.97	1605.25	1236.15	4.35	
14100.00	13895.76	90.00	266.28	6974.00	186.24	54.24	275.97	1606.30	1231.70	4.29	
14200.00	13995.75	90.00	266.28	6974.00	189.01	54.96	275.96	1607.36	1227.25	4.23	
14300.00	14095.75	90.00	266.28	6974.00	191.77	55.69	275.96	1608.42	1222.80	4.17	
14400.00	14195.74	90.00	266.28	6974.00	194.54	56.41	275.96	1609.47	1218.35	4.11	
14500.00	14295.74	90.00	266.28	6974.00	197.31	57.14	275.95	1610.53	1213.89	4.06	
14600.00	14395.73	90.00	266.28	6974.00	200.08	57.86	275.95	1611.59	1209.44	4.01	
14700.00	14495.73	90.00	266.28	6974.00	202.85	58.59	275.94	1612.64	1204.98	3.96	
14800.00	14595.72	90.00	266.28	6974.00	205.62	59.31	275.94	1613.70	1200.52	3.91	
14900.00	14695.72	90.00	266.28	6974.00	208.39	60.04	275.94	1614.75	1196.06	3.86	
15000.00	14795.71	90.00	266.28	6974.00	211.16	60.77	275.93	1615.81	1191.60	3.81	
15100.00	14895.70	90.00	266.28	6974.00	213.94	61.49	275.93	1616.87	1187.13	3.76	
15200.00	14995.70	90.00	266.28	6974.00	216.71	62.22	275.92	1617.92	1182.67	3.72	
15300.00	15095.69	90.00	266.28	6974.00	219.48	62.95	275.92	1618.98	1178.20	3.67	
15400.00	15195.69	90.00	266.28	6974.00	222.26	63.67	275.92	1620.04	1173.74	3.63	
15500.00	15286.68	90.00	266.28	6974.00	224.78	64.33	275.91	1621.12	1169.53	3.59	
15600.00	15286.68	90.00	266.28	6974.00	224.78	64.33	275.91	1625.81	1172.22	3.58	
15644.54	15286.68	90.00	266.28	6974.00	224.78	64.33	275.91	1629.87	1175.95	3.59	
Secondary Well: Goetzel 13N-30A-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
0.00	0.00	0.00	0.00	0.00	0.00	0.00	180.05	159.93	159.20	218.10	
100.00	100.00	0.00	0.00	100.00	0.11	0.11	180.05	159.93	158.98	167.66	

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
200.00	200.00	0.00	0.00	200.00	0.34	0.34	180.05	159.93	158.53	113.95	
300.00	300.00	0.00	0.00	300.00	0.56	0.56	180.05	159.93	158.08	86.31	
400.00	400.00	0.00	0.00	400.00	0.79	0.79	180.05	159.93	157.63	69.46	
500.00	500.00	0.00	0.00	500.00	1.01	1.01	180.05	159.93	157.18	58.11	
600.00	600.00	0.00	0.00	600.00	1.24	1.24	180.05	159.93	156.73	49.95	
700.00	700.00	0.00	0.00	700.00	1.46	1.46	180.05	159.93	156.28	43.80	
800.00	798.20	0.96	131.86	798.20	1.67	1.67	179.94	160.22	156.13	39.22	
900.00	894.50	2.89	131.86	894.43	1.85	1.85	179.09	162.48	157.99	36.21	
1000.00	990.46	4.81	131.86	990.18	2.04	2.03	177.47	167.12	162.23	34.18	
1100.00	1085.89	6.72	131.86	1085.12	2.25	2.22	175.21	174.30	168.99	32.82	
1200.00	1180.58	8.61	131.86	1178.96	2.50	2.41	172.49	184.26	178.51	32.05	
1300.00	1274.33	10.49	131.86	1271.41	2.77	2.61	169.52	197.20	191.01	31.82	
1400.00	1366.96	12.34	131.86	1362.20	3.09	2.81	166.46	213.30	206.65	32.08	
1500.00	1458.29	14.17	131.86	1451.10	3.45	3.01	163.46	232.67	225.57	32.77	
1600.00	1548.18	15.96	131.86	1537.90	3.85	3.22	160.63	255.34	247.80	33.88	
1700.00	1636.49	17.73	131.86	1622.41	4.31	3.43	158.02	281.30	273.31	35.24	
1800.00	1725.55	18.97	131.86	1706.84	4.81	3.66	155.60	310.37	301.95	36.87	
1900.00	1820.43	18.97	131.86	1796.57	5.39	3.91	75.10	340.19	331.31	38.28	
2000.00	1915.87	18.97	131.86	1886.83	5.99	4.18	73.45	369.37	359.99	39.35	
2100.00	2011.74	18.97	131.86	1977.50	6.60	4.46	72.49	397.66	387.76	40.16	
2200.00	2107.94	18.97	131.86	2068.47	7.23	4.73	72.06	424.95	414.52	40.74	
2300.00	2204.34	18.97	131.86	2159.63	7.86	5.02	72.09	451.23	440.20	40.92	
2400.00	2300.82	18.97	131.86	2250.87	8.50	5.30	72.48	476.53	464.87	40.86	
2500.00	2397.28	18.97	131.86	2342.09	9.14	5.59	73.19	500.98	488.63	40.57	
2600.00	2493.58	18.97	131.86	2433.16	9.79	5.89	74.17	524.70	511.59	40.01	
2700.00	2589.65	18.97	131.86	2524.01	10.44	6.18	75.54	547.96	533.94	39.09	
2800.00	2685.66	18.97	131.86	2614.81	11.09	6.47	77.12	571.48	556.52	38.21	
2900.00	2781.67	18.97	131.86	2705.61	11.74	6.77	78.57	595.38	579.46	37.40	
3000.00	2877.68	18.97	131.86	2796.40	12.39	7.06	79.91	619.63	602.73	36.67	
3100.00	2973.69	18.97	131.86	2887.20	13.05	7.36	81.15	644.17	626.27	35.98	
3200.00	3069.71	18.97	131.86	2978.00	13.70	7.66	82.30	668.99	650.03	35.30	
3300.00	3165.72	18.97	131.86	3068.79	14.36	7.96	83.37	694.04	674.01	34.64	
3400.00	3261.73	18.97	131.86	3159.59	15.02	8.26	84.36	719.31	698.18	34.05	
3500.00	3357.74	18.97	131.86	3250.39	15.68	8.56	85.29	744.77	722.55	33.52	
3600.00	3453.75	18.97	131.86	3341.19	16.33	8.86	86.16	770.40	747.08	33.04	
3700.00	3549.77	18.97	131.86	3431.98	16.99	9.16	86.97	796.19	771.76	32.60	
3800.00	3645.78	18.97	131.86	3522.78	17.65	9.46	87.74	822.12	796.59	32.20	
3900.00	3741.79	18.97	131.86	3613.58	18.32	9.77	88.45	848.18	821.54	31.83	
4000.00	3837.80	18.97	131.86	3704.37	18.98	10.07	89.12	874.36	846.58	31.48	
4100.00	3933.81	18.97	131.86	3795.17	19.64	10.37	89.76	900.64	871.72	31.14	
4200.00	4029.82	18.97	131.86	3885.97	20.30	10.68	90.36	927.03	896.95	30.83	
4300.00	4125.84	18.97	131.86	3976.76	20.96	10.98	90.92	953.50	922.28	30.54	
4400.00	4221.85	18.97	131.86	4067.56	21.62	11.29	91.46	980.05	947.68	30.28	
4500.00	4317.86	18.97	131.86	4158.36	22.29	11.59	91.97	1006.68	973.16	30.03	
4600.00	4413.87	18.97	131.86	4249.16	22.95	11.89	92.45	1033.39	998.71	29.80	
4700.00	4509.88	18.97	131.86	4339.95	23.61	12.20	92.91	1060.15	1024.33	29.59	
4800.00	4605.89	18.97	131.86	4430.75	24.28	12.51	93.34	1086.98	1050.00	29.40	
4900.00	4701.91	18.97	131.86	4521.55	24.94	12.81	93.76	1113.86	1075.73	29.21	
5000.00	4797.92	18.97	131.86	4612.34	25.61	13.12	94.15	1140.80	1101.51	29.04	
5100.00	4893.93	18.97	131.86	4703.14	26.27	13.42	94.53	1167.78	1127.33	28.87	
5200.00	4989.94	18.97	131.86	4793.94	26.93	13.73	94.89	1194.80	1153.21	28.72	
5300.00	5085.95	18.97	131.86	4884.74	27.60	14.03	95.23	1221.87	1179.12	28.58	
5400.00	5181.97	18.97	131.86	4975.53	28.26	14.34	95.56	1248.98	1205.07	28.44	
5500.00	5277.98	18.97	131.86	5066.33	28.93	14.65	95.88	1276.13	1231.06	28.32	
5600.00	5373.99	18.97	131.86	5157.13	29.59	14.95	96.18	1303.31	1257.09	28.20	
5700.00	5470.00	18.97	131.86	5247.92	30.26	15.26	96.47	1330.52	1283.15	28.09	
5800.00	5566.01	18.97	131.86	5338.72	30.92	15.57	96.75	1357.76	1309.23	27.98	
5900.00	5662.02	18.97	131.86	5429.52	31.59	15.87	97.01	1385.03	1335.35	27.88	

5D Anti-Collision Report

Secondary Well: Goetzel 13N-30A-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
6000.00	5758.04	18.97	131.86	5520.31	32.25	16.18	97.27	1412.33	1361.49	27.78	
6100.00	5854.05	18.97	131.86	5611.11	32.92	16.49	97.52	1439.65	1387.66	27.69	
6200.00	5950.06	18.97	131.86	5701.91	33.58	16.80	97.76	1467.00	1413.86	27.60	
6300.00	6046.07	18.97	131.86	5792.71	34.25	17.10	97.98	1494.37	1440.07	27.52	
6400.00	6142.08	18.97	131.86	5883.50	34.91	17.41	98.44	1521.76	1466.32	27.45	
6500.00	6233.52	17.31	138.14	5970.12	35.48	17.70	108.79	1549.26	1493.03	27.55	
6600.00	6317.45	14.25	160.35	6050.95	35.66	17.88	169.19	1577.08	1520.49	27.87	
6700.00	6401.79	13.97	188.25	6132.84	35.44	17.92	254.80	1604.86	1548.22	28.33	
6800.00	6486.89	16.66	212.18	6214.99	34.88	17.80	267.02	1632.10	1575.66	28.92	
6900.00	6573.15	21.31	228.02	6296.59	34.02	17.53	272.13	1658.30	1602.26	29.59	
7000.00	6660.94	27.01	238.13	6376.69	32.92	17.07	275.29	1683.01	1627.48	30.30	
7100.00	6750.65	33.33	244.94	6454.24	31.65	16.40	277.54	1705.80	1650.81	31.02	
7200.00	6842.66	40.08	249.86	6527.97	30.31	15.47	279.20	1726.26	1671.78	31.68	
7300.00	6937.29	47.19	253.64	6596.43	29.05	14.26	280.41	1744.03	1689.89	32.21	
7400.00	7034.83	54.62	256.73	6657.92	28.05	12.79	281.22	1758.78	1704.73	32.54	
7500.00	7135.50	62.35	259.36	6710.51	27.44	11.22	281.68	1770.22	1715.76	32.50	
7600.00	7239.40	70.38	261.71	6752.13	27.32	9.95	281.80	1778.12	1722.78	32.13	
7700.00	7346.50	78.69	263.90	6780.67	27.73	9.63	281.59	1782.27	1725.57	31.43	
7800.00	7456.88	87.26	266.03	6794.16	28.60	10.73	281.22	1783.31	1724.77	30.46	
7900.00	7560.70	90.00	266.70	6795.00	29.64	11.69	281.19	1783.68	1723.01	29.40	
8000.00	7660.70	90.00	266.70	6795.00	30.80	12.22	281.18	1784.02	1720.92	28.27	
8100.00	7760.70	90.00	266.70	6795.00	32.16	12.78	281.18	1784.35	1718.37	27.04	
8200.00	7860.69	90.00	266.70	6795.00	33.69	13.36	281.18	1784.69	1715.56	25.82	
8300.00	7960.69	90.00	266.70	6795.00	35.38	13.96	281.18	1785.03	1712.40	24.58	
8400.00	8060.69	90.00	266.70	6795.00	37.20	14.58	281.17	1785.37	1709.12	23.42	
8500.00	8160.69	90.00	266.70	6795.00	39.13	15.21	281.17	1785.70	1705.50	22.26	
8600.00	8260.69	90.00	266.70	6795.00	41.16	15.86	281.17	1786.04	1701.89	21.22	
8700.00	8360.69	90.00	266.70	6795.00	43.28	16.51	281.17	1786.38	1697.91	20.19	
8800.00	8460.69	90.00	266.70	6795.00	45.47	17.17	281.17	1786.72	1693.84	19.24	
8900.00	8560.69	90.00	266.70	6795.00	47.72	17.84	281.16	1787.05	1689.69	18.35	
9000.00	8660.69	90.00	266.70	6795.00	50.03	18.51	281.16	1787.39	1685.45	17.53	
9100.00	8760.69	90.00	266.70	6795.00	52.39	19.18	281.16	1787.73	1681.12	16.77	
9200.00	8860.69	90.00	266.70	6795.00	54.79	19.86	281.16	1788.07	1676.72	16.06	
9300.00	8960.69	90.00	266.70	6795.00	57.22	20.54	281.16	1788.40	1672.25	15.40	
9400.00	9060.69	90.00	266.70	6795.00	59.69	21.23	281.15	1788.74	1667.72	14.78	
9500.00	9160.69	90.00	266.70	6795.00	62.18	21.92	281.15	1789.08	1663.14	14.21	
9600.00	9260.69	90.00	266.70	6795.00	64.70	22.61	281.15	1789.42	1658.51	13.67	
9700.00	9360.69	90.00	266.70	6795.00	67.24	23.30	281.15	1789.75	1653.85	13.17	
9800.00	9460.69	90.00	266.70	6795.00	69.81	24.00	281.14	1790.09	1649.14	12.70	
9900.00	9560.68	90.00	266.70	6795.00	72.38	24.70	281.14	1790.43	1644.40	12.26	
10000.00	9660.68	90.00	266.70	6795.00	74.98	25.40	281.14	1790.77	1639.64	11.85	
10100.00	9760.68	90.00	266.70	6795.00	77.59	26.10	281.14	1791.10	1634.84	11.46	
10200.00	9860.68	90.00	266.70	6795.00	80.21	26.80	281.14	1791.44	1630.03	11.10	
10300.00	9960.68	90.00	266.70	6795.00	82.84	27.50	281.13	1791.78	1625.19	10.76	
10400.00	10060.68	90.00	266.70	6795.00	85.49	28.21	281.13	1792.12	1620.33	10.43	
10500.00	10160.68	90.00	266.70	6795.00	88.14	28.91	281.13	1792.45	1615.45	10.13	
10600.00	10260.68	90.00	266.70	6795.00	90.80	29.62	281.13	1792.79	1610.56	9.84	
10700.00	10360.68	90.00	266.70	6795.00	93.47	30.33	281.13	1793.13	1605.65	9.56	
10800.00	10460.68	90.00	266.70	6795.00	96.15	31.04	281.12	1793.46	1600.73	9.31	
10900.00	10560.68	90.00	266.70	6795.00	98.84	31.75	281.12	1793.80	1595.79	9.06	
11000.00	10660.68	90.00	266.70	6795.00	101.53	32.46	281.12	1794.14	1590.85	8.83	
11100.00	10760.68	90.00	266.70	6795.00	104.22	33.18	281.12	1794.48	1585.89	8.60	
11200.00	10860.68	90.00	266.70	6795.00	106.92	33.89	281.11	1794.81	1580.92	8.39	
11300.00	10960.68	90.00	266.70	6795.00	109.63	34.60	281.11	1795.15	1575.95	8.19	
11400.00	11060.68	90.00	266.70	6795.00	112.34	35.32	281.11	1795.49	1570.96	8.00	
11500.00	11160.68	90.00	266.70	6795.00	115.06	36.03	281.11	1795.83	1565.97	7.81	
11600.00	11260.67	90.00	266.70	6795.00	117.77	36.75	281.11	1796.16	1560.97	7.64	
11700.00	11360.67	90.00	266.70	6795.00	120.50	37.47	281.10	1796.50	1555.96	7.47	

5D Anti-Collision Report

Secondary Well: Goetzel 13N-30A-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
11800.00	11460.67	90.00	266.70	6795.00	123.22	38.18	281.10	1796.84	1550.95	7.31	
11900.00	11560.67	90.00	266.70	6795.00	125.95	38.90	281.10	1797.18	1545.92	7.15	
12000.00	11660.67	90.00	266.70	6795.00	128.68	39.62	281.10	1797.51	1540.90	7.00	
12100.00	11760.67	90.00	266.70	6795.00	131.42	40.34	281.10	1797.85	1535.87	6.86	
12200.00	11860.67	90.00	266.70	6795.00	134.16	41.06	281.09	1798.19	1530.83	6.73	
12300.00	11960.67	90.00	266.70	6795.00	136.90	41.78	281.09	1798.53	1525.79	6.59	
12400.00	12060.67	90.00	266.70	6795.00	139.64	42.50	281.09	1798.86	1520.74	6.47	
12500.00	12160.67	90.00	266.70	6795.00	142.38	43.22	281.09	1799.20	1515.69	6.35	
12600.00	12260.67	90.00	266.70	6795.00	145.13	43.94	281.09	1799.54	1510.64	6.23	
12700.00	12360.67	90.00	266.70	6795.00	147.88	44.66	281.08	1799.88	1505.58	6.12	
12800.00	12460.67	90.00	266.70	6795.00	150.63	45.38	281.08	1800.21	1500.52	6.01	
12900.00	12560.67	90.00	266.70	6795.00	153.38	46.11	281.08	1800.55	1495.46	5.90	
13000.00	12660.67	90.00	266.70	6795.00	156.13	46.83	281.08	1800.89	1490.39	5.80	
13100.00	12760.67	90.00	266.70	6795.00	158.89	47.55	281.07	1801.23	1485.32	5.70	
13200.00	12860.67	90.00	266.70	6795.00	161.65	48.28	281.07	1801.56	1480.24	5.61	
13300.00	12960.66	90.00	266.70	6795.00	164.40	49.00	281.07	1801.90	1475.17	5.51	
13400.00	13060.66	90.00	266.70	6795.00	167.16	49.72	281.07	1802.24	1470.09	5.43	
13500.00	13160.66	90.00	266.70	6795.00	169.92	50.45	281.07	1802.58	1465.01	5.34	
13600.00	13260.66	90.00	266.70	6795.00	172.68	51.17	281.06	1802.91	1459.92	5.26	
13700.00	13360.66	90.00	266.70	6795.00	175.45	51.90	281.06	1803.25	1454.84	5.18	
13800.00	13460.66	90.00	266.70	6795.00	178.21	52.62	281.06	1803.59	1449.75	5.10	
13900.00	13560.66	90.00	266.70	6795.00	180.98	53.35	281.06	1803.93	1444.66	5.02	
14000.00	13660.66	90.00	266.70	6795.00	183.74	54.07	281.06	1804.26	1439.56	4.95	
14100.00	13760.66	90.00	266.70	6795.00	186.51	54.80	281.05	1804.60	1434.47	4.88	
14200.00	13860.66	90.00	266.70	6795.00	189.28	55.52	281.05	1804.94	1429.37	4.81	
14300.00	13960.66	90.00	266.70	6795.00	192.05	56.25	281.05	1805.28	1424.27	4.74	
14400.00	14060.66	90.00	266.70	6795.00	194.82	56.97	281.05	1805.62	1419.17	4.67	
14500.00	14160.66	90.00	266.70	6795.00	197.59	57.70	281.05	1805.95	1414.07	4.61	
14600.00	14260.66	90.00	266.70	6795.00	200.36	58.43	281.04	1806.29	1408.97	4.55	
14700.00	14360.66	90.00	266.70	6795.00	203.13	59.15	281.04	1806.63	1403.86	4.49	
14800.00	14460.66	90.00	266.70	6795.00	205.90	59.88	281.04	1806.97	1398.76	4.43	
14900.00	14560.66	90.00	266.70	6795.00	208.68	60.61	281.04	1807.30	1393.65	4.37	
15000.00	14660.65	90.00	266.70	6795.00	211.45	61.33	281.04	1807.64	1388.54	4.31	
15100.00	14760.65	90.00	266.70	6795.00	214.22	62.06	281.03	1807.98	1383.43	4.26	
15200.00	14860.65	90.00	266.70	6795.00	217.00	62.79	281.03	1808.32	1378.32	4.21	
15300.00	14960.65	90.00	266.70	6795.00	219.78	63.51	281.03	1808.65	1373.21	4.15	
15400.00	15060.65	90.00	266.70	6795.00	222.55	64.24	281.03	1808.99	1368.09	4.10	
15500.00	15136.85	90.00	266.70	6795.00	224.67	64.80	281.03	1809.48	1363.73	4.06	
15600.00	15136.85	90.00	266.70	6795.00	224.67	64.80	281.03	1813.90	1366.04	4.05	
15644.54	15136.85	90.00	266.70	6795.00	224.67	64.80	281.03	1817.63	1369.28	4.05	
Secondary Well: Goetzel 13C-30-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
0.00	0.00	0.00	0.00	0.00	0.00	0.00	179.99	179.97	179.24	245.42	
100.00	100.00	0.00	0.00	100.00	0.11	0.11	179.99	179.97	179.02	188.66	
200.00	200.00	0.00	0.00	200.00	0.34	0.34	179.99	179.97	178.57	128.23	
300.00	300.00	0.00	0.00	300.00	0.56	0.56	179.99	179.97	178.12	97.12	
400.00	400.00	0.00	0.00	400.00	0.79	0.79	179.99	179.97	177.67	78.16	
500.00	500.00	0.00	0.00	500.00	1.01	1.01	179.99	179.97	177.22	65.39	
600.00	600.00	0.00	0.00	600.00	1.24	1.24	179.99	179.97	176.77	56.21	
700.00	695.49	1.91	138.18	695.47	1.43	1.43	179.66	181.22	177.60	50.12	
800.00	790.77	3.82	138.18	790.63	1.61	1.61	178.68	184.99	180.97	45.99	
900.00	885.63	5.71	138.18	885.16	1.81	1.79	177.14	191.39	186.95	43.17	
1000.00	979.87	7.60	138.18	978.75	2.04	1.98	175.17	200.55	195.69	41.23	
1100.00	1073.28	9.47	138.18	1071.13	2.30	2.18	172.90	212.62	207.31	40.04	
1200.00	1165.69	11.31	138.18	1162.02	2.60	2.38	170.48	227.74	221.98	39.54	
1300.00	1256.93	13.14	138.18	1251.18	2.95	2.58	168.03	246.00	239.79	39.61	

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
1400.00	1346.82	14.94	138.18	1338.39	3.34	2.79	165.64	267.44	260.79	40.21	
1500.00	1435.24	16.70	138.18	1423.46	3.77	3.01	163.38	292.06	284.97	41.17	
1600.00	1522.05	18.44	138.18	1506.22	4.25	3.22	161.29	319.83	312.30	42.44	
1700.00	1611.01	19.47	138.18	1590.24	4.80	3.46	159.31	350.47	342.47	43.80	
1800.00	1705.29	19.47	138.18	1679.13	5.40	3.73	157.52	381.96	373.50	45.12	
1900.00	1799.84	19.47	138.18	1768.27	6.02	4.00	77.59	413.39	404.44	46.15	
2000.00	1894.86	19.47	138.18	1857.85	6.65	4.28	76.32	444.22	434.77	47.01	
2100.00	1990.22	19.47	138.18	1947.76	7.29	4.57	75.58	474.29	464.32	47.56	
2200.00	2085.81	19.47	138.18	2037.89	7.94	4.86	75.28	503.54	493.02	47.87	
2300.00	2181.52	19.47	138.18	2128.12	8.59	5.15	75.34	531.97	520.86	47.87	
2400.00	2277.23	19.47	138.18	2218.36	9.25	5.44	75.72	559.65	547.90	47.64	
2500.00	2372.82	19.47	138.18	2308.48	9.91	5.74	76.35	586.68	574.22	47.06	
2600.00	2468.17	19.47	138.18	2398.38	10.57	6.04	77.21	613.21	599.96	46.27	
2700.00	2563.21	19.47	138.18	2487.98	11.23	6.34	78.46	639.45	625.35	45.35	
2800.00	2658.18	19.47	138.18	2577.52	11.89	6.63	79.95	666.00	650.97	44.31	
2900.00	2753.15	19.47	138.18	2667.06	12.55	6.93	81.32	692.95	676.97	43.35	
3000.00	2848.12	19.47	138.18	2756.60	13.21	7.23	82.60	720.26	703.29	42.46	
3100.00	2943.09	19.47	138.18	2846.14	13.88	7.53	83.79	747.88	729.90	41.61	
3200.00	3038.05	19.47	138.18	2935.67	14.54	7.84	84.89	775.78	756.78	40.85	
3300.00	3133.02	19.47	138.18	3025.21	15.21	8.14	85.91	803.93	783.88	40.11	
3400.00	3227.99	19.47	138.18	3114.75	15.87	8.44	86.87	832.31	811.19	39.40	
3500.00	3322.96	19.47	138.18	3204.29	16.54	8.74	87.77	860.89	838.68	38.77	
3600.00	3417.93	19.47	138.18	3293.82	17.21	9.05	88.61	889.66	866.36	38.19	
3700.00	3512.90	19.47	138.18	3383.36	17.87	9.35	89.40	918.59	894.20	37.67	
3800.00	3607.87	19.47	138.18	3472.90	18.54	9.66	90.14	947.68	922.19	37.19	
3900.00	3702.84	19.47	138.18	3562.44	19.21	9.96	90.83	976.90	950.32	36.75	
4000.00	3797.81	19.47	138.18	3651.98	19.88	10.27	91.49	1006.25	978.57	36.35	
4100.00	3892.78	19.47	138.18	3741.51	20.55	10.57	92.11	1035.72	1006.94	35.99	
4200.00	3987.74	19.47	138.18	3831.05	21.21	10.88	92.69	1065.29	1035.40	35.65	
4300.00	4082.71	19.47	138.18	3920.59	21.88	11.18	93.25	1094.96	1063.97	35.34	
4400.00	4177.68	19.47	138.18	4010.13	22.55	11.49	93.77	1124.71	1092.61	35.03	
4500.00	4272.65	19.47	138.18	4099.67	23.22	11.80	94.27	1154.55	1121.32	34.74	
4600.00	4367.62	19.47	138.18	4189.20	23.89	12.10	94.75	1184.47	1150.10	34.47	
4700.00	4462.59	19.47	138.18	4278.74	24.56	12.41	95.20	1214.46	1178.96	34.21	
4800.00	4557.56	19.47	138.18	4368.28	25.23	12.72	95.63	1244.51	1207.88	33.97	
4900.00	4652.53	19.47	138.18	4457.82	25.90	13.03	96.03	1274.63	1236.86	33.75	
5000.00	4747.50	19.47	138.18	4547.36	26.57	13.33	96.42	1304.80	1265.90	33.54	
5100.00	4842.47	19.47	138.18	4636.89	27.24	13.64	96.80	1335.02	1294.99	33.35	
5200.00	4937.43	19.47	138.18	4726.43	27.91	13.95	97.15	1365.29	1324.13	33.17	
5300.00	5032.40	19.47	138.18	4815.97	28.58	14.25	97.49	1395.61	1353.32	33.00	
5400.00	5127.37	19.47	138.18	4905.51	29.25	14.56	97.82	1425.97	1382.55	32.84	
5500.00	5222.34	19.47	138.18	4995.05	29.92	14.87	98.13	1456.38	1411.82	32.68	
5600.00	5317.31	19.47	138.18	5084.58	30.59	15.18	98.43	1486.82	1441.12	32.53	
5700.00	5412.28	19.47	138.18	5174.12	31.26	15.49	98.72	1517.30	1470.46	32.39	
5800.00	5507.25	19.47	138.18	5263.66	31.93	15.79	99.00	1547.81	1499.83	32.26	
5900.00	5602.22	19.47	138.18	5353.20	32.60	16.10	99.26	1578.35	1529.23	32.13	
6000.00	5697.19	19.47	138.18	5442.74	33.27	16.41	99.52	1608.92	1558.66	32.01	
6100.00	5792.16	19.47	138.18	5532.27	33.95	16.72	99.77	1639.52	1588.12	31.89	
6200.00	5887.12	19.47	138.18	5621.81	34.62	17.03	100.01	1670.15	1617.60	31.78	
6300.00	5982.09	19.47	138.18	5711.35	35.29	17.34	100.23	1700.80	1647.11	31.68	
6400.00	6077.06	19.47	138.18	5800.89	35.96	17.64	100.70	1731.47	1676.65	31.58	
6500.00	6172.23	19.47	138.18	5890.61	36.63	17.95	111.31	1761.91	1706.23	31.64	
6600.00	6266.48	19.47	138.18	5979.47	37.30	18.26	171.56	1791.53	1735.30	31.86	
6700.00	6357.97	19.47	138.18	6065.74	37.94	18.56	256.62	1820.11	1763.62	32.22	
6800.00	6444.94	19.47	138.18	6147.73	38.56	18.84	268.03	1847.68	1791.20	32.71	
6900.00	6525.69	19.47	138.18	6223.86	39.13	19.10	272.21	1874.51	1818.27	33.33	
7000.00	6599.35	16.76	152.87	6293.84	39.46	19.32	274.56	1900.99	1845.27	34.12	
7100.00	6677.23	15.35	174.95	6368.74	39.37	19.44	276.08	1927.11	1872.05	35.00	

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
7200.00	6761.80	16.49	199.45	6450.17	38.89	19.46	277.03	1952.58	1898.07	35.82	
7300.00	6856.05	20.44	219.94	6539.64	37.90	19.33	277.51	1977.04	1923.01	36.59	
7400.00	6964.57	26.89	234.58	6639.07	36.27	18.94	277.50	2000.04	1946.33	37.24	
7500.00	7094.60	35.81	244.98	6750.08	33.89	18.07	276.94	2020.93	1967.27	37.66	
7600.00	7257.25	47.73	252.88	6871.26	30.88	16.19	275.74	2038.69	1984.51	37.63	
7700.00	7467.03	63.61	259.50	6989.27	28.51	12.44	273.98	2051.65	1995.94	36.83	
7800.00	7733.74	84.11	265.70	7063.08	29.04	10.58	272.17	2057.51	1998.47	34.85	
7900.00	7884.00	90.00	267.32	7067.00	30.44	12.24	272.06	2057.09	1995.26	33.27	
8000.00	7983.99	90.00	267.32	7067.00	31.56	12.77	272.06	2056.35	1992.02	31.96	
8100.00	8083.99	90.00	267.32	7067.00	32.88	13.34	272.06	2055.61	1988.43	30.60	
8200.00	8183.99	90.00	267.32	7067.00	34.38	13.93	272.06	2054.87	1984.47	29.19	
8300.00	8283.98	90.00	267.32	7067.00	36.02	14.54	272.06	2054.13	1980.22	27.79	
8400.00	8383.98	90.00	267.32	7067.00	37.80	15.17	272.07	2053.39	1975.74	26.45	
8500.00	8483.98	90.00	267.32	7067.00	39.69	15.82	272.07	2052.65	1971.09	25.17	
8600.00	8583.98	90.00	267.32	7067.00	41.69	16.48	272.07	2051.90	1966.16	23.93	
8700.00	8683.97	90.00	267.32	7067.00	43.77	17.14	272.07	2051.16	1961.15	22.79	
8800.00	8783.97	90.00	267.32	7067.00	45.93	17.81	272.07	2050.42	1955.92	21.70	
8900.00	8883.97	90.00	267.32	7067.00	48.16	18.49	272.07	2049.68	1950.64	20.70	
9000.00	8983.97	90.00	267.32	7067.00	50.44	19.17	272.07	2048.94	1945.27	19.76	
9100.00	9083.96	90.00	267.32	7067.00	52.77	19.85	272.07	2048.20	1939.81	18.90	
9200.00	9183.96	90.00	267.32	7067.00	55.15	20.54	272.07	2047.46	1934.26	18.09	
9300.00	9283.96	90.00	267.32	7067.00	57.56	21.23	272.07	2046.72	1928.64	17.33	
9400.00	9383.95	90.00	267.32	7067.00	60.01	21.92	272.07	2045.98	1922.95	16.63	
9500.00	9483.95	90.00	267.32	7067.00	62.49	22.61	272.07	2045.24	1917.21	15.98	
9600.00	9583.95	90.00	267.32	7067.00	64.99	23.31	272.07	2044.49	1911.42	15.36	
9700.00	9683.95	90.00	267.32	7067.00	67.52	24.01	272.08	2043.75	1905.58	14.79	
9800.00	9783.94	90.00	267.32	7067.00	70.07	24.70	272.08	2043.01	1899.70	14.26	
9900.00	9883.94	90.00	267.32	7067.00	72.64	25.41	272.08	2042.27	1893.79	13.75	
10000.00	9983.94	90.00	267.32	7067.00	75.22	26.11	272.08	2041.53	1887.85	13.28	
10100.00	10083.93	90.00	267.32	7067.00	77.82	26.81	272.08	2040.79	1881.89	12.84	
10200.00	10183.93	90.00	267.32	7067.00	80.44	27.51	272.08	2040.05	1875.89	12.43	
10300.00	10283.93	90.00	267.32	7067.00	83.06	28.22	272.08	2039.31	1869.88	12.04	
10400.00	10383.93	90.00	267.32	7067.00	85.70	28.93	272.08	2038.57	1863.84	11.67	
10500.00	10483.92	90.00	267.32	7067.00	88.35	29.64	272.08	2037.83	1857.79	11.32	
10600.00	10583.92	90.00	267.32	7067.00	91.00	30.34	272.08	2037.09	1851.72	10.99	
10700.00	10683.92	90.00	267.32	7067.00	93.67	31.05	272.08	2036.34	1845.63	10.68	
10800.00	10783.92	90.00	267.32	7067.00	96.34	31.76	272.08	2035.60	1839.53	10.38	
10900.00	10883.91	90.00	267.32	7067.00	99.02	32.48	272.08	2034.86	1833.42	10.10	
11000.00	10983.91	90.00	267.32	7067.00	101.71	33.19	272.08	2034.12	1827.30	9.83	
11100.00	11083.91	90.00	267.32	7067.00	104.40	33.90	272.09	2033.38	1821.16	9.58	
11200.00	11183.90	90.00	267.32	7067.00	107.10	34.62	272.09	2032.64	1815.01	9.34	
11300.00	11283.90	90.00	267.32	7067.00	109.80	35.33	272.09	2031.90	1808.86	9.11	
11400.00	11383.90	90.00	267.32	7067.00	112.51	36.04	272.09	2031.16	1802.70	8.89	
11500.00	11483.90	90.00	267.32	7067.00	115.22	36.76	272.09	2030.42	1796.52	8.68	
11600.00	11583.89	90.00	267.32	7067.00	117.94	37.48	272.09	2029.68	1790.34	8.48	
11700.00	11683.89	90.00	267.32	7067.00	120.66	38.19	272.09	2028.93	1784.16	8.29	
11800.00	11783.89	90.00	267.32	7067.00	123.38	38.91	272.09	2028.19	1777.97	8.11	
11900.00	11883.89	90.00	267.32	7067.00	126.11	39.63	272.09	2027.45	1771.77	7.93	
12000.00	11983.88	90.00	267.32	7067.00	128.84	40.35	272.09	2026.71	1765.56	7.76	
12100.00	12083.88	90.00	267.32	7067.00	131.57	41.07	272.09	2025.97	1759.35	7.60	
12200.00	12183.88	90.00	267.32	7067.00	134.31	41.79	272.09	2025.23	1753.14	7.44	
12300.00	12283.87	90.00	267.32	7067.00	137.05	42.51	272.09	2024.49	1746.91	7.29	
12400.00	12383.87	90.00	267.32	7067.00	139.79	43.23	272.10	2023.75	1740.69	7.15	
12500.00	12483.87	90.00	267.32	7067.00	142.53	43.95	272.10	2023.01	1734.46	7.01	
12600.00	12583.87	90.00	267.32	7067.00	145.28	44.67	272.10	2022.27	1728.23	6.88	
12700.00	12683.86	90.00	267.32	7067.00	148.03	45.39	272.10	2021.53	1721.99	6.75	
12800.00	12783.86	90.00	267.32	7067.00	150.78	46.11	272.10	2020.78	1715.75	6.62	
12900.00	12883.86	90.00	267.32	7067.00	153.53	46.83	272.10	2020.04	1709.51	6.51	

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
13000.00	12983.86	90.00	267.32	7067.00	156.28	47.55	272.10	2019.30	1703.26	6.39	
13100.00	13083.85	90.00	267.32	7067.00	159.04	48.28	272.10	2018.56	1697.01	6.28	
13200.00	13183.85	90.00	267.32	7067.00	161.80	49.00	272.10	2017.82	1690.76	6.17	
13300.00	13283.85	90.00	267.32	7067.00	164.56	49.72	272.10	2017.08	1684.50	6.06	
13400.00	13383.84	90.00	267.32	7067.00	167.32	50.45	272.10	2016.34	1678.24	5.96	
13500.00	13483.84	90.00	267.32	7067.00	170.08	51.17	272.10	2015.60	1671.98	5.87	
13600.00	13583.84	90.00	267.32	7067.00	172.84	51.89	272.10	2014.86	1665.72	5.77	
13700.00	13683.84	90.00	267.32	7067.00	175.60	52.62	272.11	2014.12	1659.45	5.68	
13800.00	13783.83	90.00	267.32	7067.00	178.37	53.34	272.11	2013.37	1653.18	5.59	
13900.00	13883.83	90.00	267.32	7067.00	181.13	54.07	272.11	2012.63	1646.91	5.50	
14000.00	13983.83	90.00	267.32	7067.00	183.90	54.79	272.11	2011.89	1640.64	5.42	
14100.00	14083.83	90.00	267.32	7067.00	186.67	55.52	272.11	2011.15	1634.37	5.34	
14200.00	14183.82	90.00	267.32	7067.00	189.44	56.24	272.11	2010.41	1628.09	5.26	
14300.00	14283.82	90.00	267.32	7067.00	192.21	56.97	272.11	2009.67	1621.82	5.18	
14400.00	14383.82	90.00	267.32	7067.00	194.98	57.69	272.11	2008.93	1615.54	5.11	
14500.00	14483.81	90.00	267.32	7067.00	197.75	58.42	272.11	2008.19	1609.26	5.03	
14600.00	14583.81	90.00	267.32	7067.00	200.52	59.15	272.11	2007.45	1602.97	4.96	
14700.00	14683.81	90.00	267.32	7067.00	203.30	59.87	272.11	2006.71	1596.69	4.89	
14800.00	14783.81	90.00	267.32	7067.00	206.07	60.60	272.11	2005.97	1590.41	4.83	
14900.00	14883.80	90.00	267.32	7067.00	208.84	61.32	272.11	2005.22	1584.12	4.76	
15000.00	14983.80	90.00	267.32	7067.00	211.62	62.05	272.12	2004.48	1577.83	4.70	
15100.00	15083.80	90.00	267.32	7067.00	214.40	62.78	272.12	2003.74	1571.54	4.64	
15200.00	15183.79	90.00	267.32	7067.00	217.17	63.50	272.12	2003.00	1565.25	4.58	
15300.00	15283.79	90.00	267.32	7067.00	219.95	64.23	272.12	2002.26	1558.96	4.52	
15400.00	15383.79	90.00	267.32	7067.00	222.73	64.96	272.12	2001.52	1552.67	4.46	
15500.00	15483.79	90.00	267.32	7067.00	225.51	65.69	272.12	2000.78	1546.38	4.40	
15600.00	15583.78	90.00	267.32	7067.00	228.29	66.41	272.12	2000.04	1540.08	4.35	
15644.54	15628.32	90.00	267.32	7067.00	229.52	66.74	272.12	1999.71	1537.28	4.32	
Secondary Well: Goetzel 34N-30C-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
0.00	0.00	0.00	0.00	0.00	0.00	0.00	180.03	200.01	199.28	272.75	
100.00	100.00	0.00	0.00	100.00	0.11	0.11	180.03	200.01	199.05	209.66	
200.00	200.00	0.00	0.00	200.00	0.34	0.34	180.03	200.01	198.61	142.51	
300.00	300.00	0.00	0.00	300.00	0.56	0.56	180.03	200.01	198.16	107.93	
400.00	400.00	0.00	0.00	400.00	0.79	0.79	180.03	200.01	197.71	86.86	
500.00	497.42	0.95	141.02	497.42	0.99	0.99	179.96	200.33	197.60	73.26	
600.00	592.16	2.84	141.02	592.11	1.17	1.17	179.40	202.91	199.78	64.69	
700.00	686.60	4.73	141.02	686.33	1.37	1.36	178.33	208.14	204.59	58.61	
800.00	780.51	6.61	141.02	779.78	1.59	1.55	176.83	216.09	212.10	54.19	
900.00	873.73	8.47	141.02	872.18	1.85	1.75	175.01	226.89	222.47	51.31	
1000.00	966.04	10.32	141.02	963.26	2.14	1.96	172.98	240.65	235.77	49.34	
1100.00	1057.29	12.15	141.02	1052.75	2.48	2.17	170.85	257.45	252.12	48.24	
1200.00	1147.30	13.95	141.02	1140.43	2.86	2.38	168.71	277.36	271.57	47.89	
1300.00	1235.93	15.72	141.02	1226.11	3.28	2.60	166.64	300.40	294.15	48.04	
1400.00	1323.04	17.46	141.02	1309.59	3.75	2.82	164.67	326.55	319.85	48.75	
1500.00	1408.52	19.17	141.02	1390.74	4.26	3.05	162.85	355.75	348.59	49.69	
1600.00	1494.83	20.44	141.02	1471.85	4.82	3.29	161.13	387.87	380.25	50.87	
1700.00	1588.53	20.44	141.02	1559.65	5.46	3.57	159.51	421.06	412.96	51.93	
1800.00	1682.23	20.44	141.02	1647.45	6.12	3.85	158.12	454.52	445.90	52.77	
1900.00	1776.19	20.44	141.02	1735.49	6.78	4.14	78.43	487.86	478.74	53.52	
2000.00	1870.59	20.44	141.02	1823.94	7.45	4.44	77.29	520.61	511.00	54.18	
2100.00	1965.31	20.44	141.02	1912.70	8.13	4.73	76.59	552.65	542.52	54.56	
2200.00	2060.24	20.44	141.02	2001.65	8.81	5.03	76.26	583.94	573.26	54.67	
2300.00	2155.26	20.44	141.02	2090.69	9.50	5.34	76.25	614.47	603.20	54.52	
2400.00	2250.26	20.44	141.02	2179.70	10.19	5.64	76.51	644.31	632.39	54.03	
2500.00	2345.12	20.44	141.02	2268.59	10.87	5.95	77.01	673.56	660.90	53.22	

5D Anti-Collision Report

Secondary Well: Goetzel 34N-30C-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
2600.00	2439.73	20.44	141.02	2357.23	11.56	6.25	77.70	702.32	688.87	52.23	
2700.00	2534.00	20.44	141.02	2445.57	12.25	6.56	78.78	730.80	716.50	51.11	
2800.00	2628.20	20.44	141.02	2533.83	12.94	6.87	80.14	759.58	744.39	49.98	
2900.00	2722.40	20.44	141.02	2622.10	13.63	7.17	81.41	788.74	772.59	48.83	
3000.00	2816.60	20.44	141.02	2710.37	14.31	7.48	82.58	818.24	801.09	47.72	
3100.00	2910.80	20.44	141.02	2798.63	15.00	7.79	83.68	848.03	829.88	46.70	
3200.00	3005.00	20.44	141.02	2886.90	15.69	8.10	84.71	878.10	858.92	45.78	
3300.00	3099.20	20.44	141.02	2975.17	16.39	8.41	85.67	908.42	888.20	44.94	
3400.00	3193.40	20.44	141.02	3063.43	17.08	8.72	86.56	938.95	917.70	44.17	
3500.00	3287.60	20.44	141.02	3151.70	17.77	9.03	87.41	969.69	947.35	43.41	
3600.00	3381.80	20.44	141.02	3239.97	18.46	9.34	88.20	1000.61	977.18	42.71	
3700.00	3476.00	20.44	141.02	3328.23	19.15	9.65	88.94	1031.69	1007.16	42.07	
3800.00	3570.20	20.44	141.02	3416.50	19.84	9.96	89.64	1062.92	1037.30	41.48	
3900.00	3664.40	20.44	141.02	3504.77	20.54	10.28	90.30	1094.29	1067.57	40.95	
4000.00	3758.60	20.44	141.02	3593.03	21.23	10.59	90.93	1125.79	1097.96	40.46	
4100.00	3852.80	20.44	141.02	3681.30	21.92	10.90	91.52	1157.40	1128.47	40.00	
4200.00	3947.00	20.44	141.02	3769.57	22.62	11.21	92.08	1189.12	1159.09	39.59	
4300.00	4041.20	20.44	141.02	3857.83	23.31	11.52	92.62	1220.94	1189.80	39.20	
4400.00	4135.40	20.44	141.02	3946.10	24.00	11.84	93.12	1252.85	1220.60	38.84	
4500.00	4229.60	20.44	141.02	4034.37	24.70	12.15	93.60	1284.85	1251.48	38.51	
4600.00	4323.80	20.44	141.02	4122.63	25.39	12.46	94.06	1316.92	1282.45	38.20	
4700.00	4418.00	20.44	141.02	4210.90	26.08	12.77	94.49	1349.06	1313.48	37.92	
4800.00	4512.20	20.44	141.02	4299.17	26.78	13.09	94.91	1381.27	1344.58	37.65	
4900.00	4606.40	20.44	141.02	4387.43	27.47	13.40	95.31	1413.55	1375.72	37.37	
5000.00	4700.60	20.44	141.02	4475.70	28.17	13.71	95.69	1445.88	1406.92	37.11	
5100.00	4794.80	20.44	141.02	4563.97	28.86	14.03	96.05	1478.27	1438.18	36.87	
5200.00	4889.00	20.44	141.02	4652.23	29.55	14.34	96.40	1510.71	1469.48	36.64	
5300.00	4983.20	20.44	141.02	4740.50	30.25	14.65	96.73	1543.19	1500.83	36.43	
5400.00	5077.40	20.44	141.02	4828.77	30.94	14.97	97.05	1575.73	1532.23	36.23	
5500.00	5171.60	20.44	141.02	4917.03	31.64	15.28	97.35	1608.30	1563.67	36.04	
5600.00	5265.80	20.44	141.02	5005.30	32.33	15.60	97.65	1640.91	1595.15	35.86	
5700.00	5360.00	20.44	141.02	5093.56	33.03	15.91	97.93	1673.57	1626.67	35.69	
5800.00	5454.20	20.44	141.02	5181.83	33.72	16.22	98.20	1706.25	1658.22	35.52	
5900.00	5548.40	20.44	141.02	5270.10	34.41	16.54	98.47	1738.97	1689.80	35.36	
6000.00	5642.60	20.44	141.02	5358.36	35.11	16.85	98.72	1771.73	1721.41	35.21	
6100.00	5736.80	20.44	141.02	5446.63	35.80	17.16	98.96	1804.51	1753.05	35.07	
6200.00	5831.00	20.44	141.02	5534.90	36.50	17.48	99.20	1837.32	1784.72	34.93	
6300.00	5925.20	20.44	141.02	5623.16	37.19	17.79	99.42	1870.15	1816.41	34.80	
6400.00	6019.40	20.44	141.02	5711.43	37.89	18.11	99.89	1903.01	1848.13	34.68	
6500.00	6113.81	20.44	141.02	5799.89	38.58	18.42	110.74	1935.73	1879.99	34.73	
6600.00	6207.34	20.44	141.02	5887.54	39.27	18.73	171.27	1967.76	1911.48	34.96	
6700.00	6298.17	20.44	141.02	5972.65	39.94	19.04	256.64	1998.79	1942.27	35.36	
6800.00	6384.54	20.44	141.02	6053.58	40.58	19.33	268.37	2028.75	1972.24	35.90	
6900.00	6464.74	20.43	141.07	6128.72	41.17	19.59	272.87	2057.77	2001.53	36.59	
7000.00	6536.23	17.83	156.69	6196.30	41.42	19.80	275.56	2086.16	2030.48	37.47	
7100.00	6611.98	16.78	176.86	6268.69	41.30	19.93	277.38	2113.83	2058.68	38.33	
7200.00	6693.76	17.96	198.55	6346.82	40.76	19.98	278.62	2140.44	2085.86	39.22	
7300.00	6784.23	21.56	217.27	6432.04	39.68	19.89	279.38	2165.66	2111.60	40.06	
7400.00	6887.45	27.40	231.47	6526.02	37.95	19.60	279.65	2189.04	2135.36	40.77	
7500.00	7009.81	35.52	242.05	6630.38	35.39	18.92	279.37	2210.05	2156.33	41.14	
7600.00	7161.25	46.37	250.33	6744.68	32.07	17.38	278.48	2227.84	2173.59	41.06	
7700.00	7355.74	60.88	257.36	6859.81	29.07	13.88	276.95	2241.07	2185.45	40.29	
7800.00	7607.37	80.03	264.00	6943.69	28.78	10.21	275.04	2248.03	2189.42	38.36	
7900.00	7792.15	90.00	267.03	6955.00	30.38	12.25	274.74	2248.64	2186.85	36.39	
8000.00	7892.15	90.00	267.03	6955.00	31.47	12.79	274.75	2248.40	2184.18	35.01	
8100.00	7992.15	90.00	267.03	6955.00	32.75	13.37	274.75	2248.15	2181.14	33.55	
8200.00	8092.15	90.00	267.03	6955.00	34.21	13.98	274.75	2247.91	2177.73	32.03	
8300.00	8192.14	90.00	267.03	6955.00	35.82	14.61	274.75	2247.66	2173.98	30.51	

5D Anti-Collision Report

Secondary Well: Goetzel 34N-30C-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
8400.00	8292.14	90.00	267.03	6955.00	37.57	15.26	274.75	2247.41	2170.13	29.08	
8500.00	8392.14	90.00	267.03	6955.00	39.44	15.93	274.75	2247.17	2165.92	27.66	
8600.00	8492.14	90.00	267.03	6955.00	41.41	16.60	274.75	2246.92	2161.58	26.33	
8700.00	8592.14	90.00	267.03	6955.00	43.47	17.28	274.75	2246.67	2157.12	25.09	
8800.00	8692.14	90.00	267.03	6955.00	45.61	17.97	274.75	2246.43	2152.34	23.88	
8900.00	8792.14	90.00	267.03	6955.00	47.82	18.66	274.75	2246.18	2147.60	22.79	
9000.00	8892.14	90.00	267.03	6955.00	50.08	19.36	274.75	2245.94	2142.78	21.77	
9100.00	8992.14	90.00	267.03	6955.00	52.40	20.05	274.75	2245.69	2137.85	20.82	
9200.00	9092.14	90.00	267.03	6955.00	54.76	20.75	274.75	2245.44	2132.83	19.94	
9300.00	9192.14	90.00	267.03	6955.00	57.17	21.45	274.75	2245.20	2127.73	19.11	
9400.00	9292.14	90.00	267.03	6955.00	59.61	22.15	274.75	2244.95	2122.56	18.34	
9500.00	9392.14	90.00	267.03	6955.00	62.07	22.86	274.75	2244.70	2117.34	17.62	
9600.00	9492.14	90.00	267.03	6955.00	64.57	23.56	274.75	2244.46	2112.06	16.95	
9700.00	9592.14	90.00	267.03	6955.00	67.09	24.27	274.75	2244.21	2106.73	16.32	
9800.00	9692.14	90.00	267.03	6955.00	69.63	24.97	274.75	2243.97	2101.37	15.74	
9900.00	9792.14	90.00	267.03	6955.00	72.19	25.68	274.76	2243.72	2095.97	15.19	
10000.00	9892.14	90.00	267.03	6955.00	74.77	26.39	274.76	2243.47	2090.55	14.67	
10100.00	9992.14	90.00	267.03	6955.00	77.37	27.10	274.76	2243.23	2085.09	14.19	
10200.00	10092.14	90.00	267.03	6955.00	79.97	27.80	274.76	2242.98	2079.61	13.73	
10300.00	10192.14	90.00	267.03	6955.00	82.60	28.52	274.76	2242.74	2074.11	13.30	
10400.00	10292.14	90.00	267.03	6955.00	85.23	29.23	274.76	2242.49	2068.58	12.89	
10500.00	10392.14	90.00	267.03	6955.00	87.87	29.94	274.76	2242.24	2063.04	12.51	
10600.00	10492.14	90.00	267.03	6955.00	90.52	30.65	274.76	2242.00	2057.49	12.15	
10700.00	10592.14	90.00	267.03	6955.00	93.18	31.36	274.76	2241.75	2051.91	11.81	
10800.00	10692.14	90.00	267.03	6955.00	95.85	32.08	274.76	2241.50	2046.33	11.48	
10900.00	10792.14	90.00	267.03	6955.00	98.53	32.79	274.76	2241.26	2040.73	11.18	
11000.00	10892.14	90.00	267.03	6955.00	101.21	33.51	274.76	2241.01	2035.11	10.88	
11100.00	10992.14	90.00	267.03	6955.00	103.90	34.22	274.76	2240.77	2029.49	10.61	
11200.00	11092.14	90.00	267.03	6955.00	106.60	34.94	274.76	2240.52	2023.86	10.34	
11300.00	11192.14	90.00	267.03	6955.00	109.30	35.66	274.76	2240.27	2018.22	10.09	
11400.00	11292.14	90.00	267.03	6955.00	112.00	36.37	274.76	2240.03	2012.56	9.85	
11500.00	11392.14	90.00	267.03	6955.00	114.71	37.09	274.76	2239.78	2006.91	9.62	
11600.00	11492.13	90.00	267.03	6955.00	117.43	37.81	274.76	2239.53	2001.24	9.40	
11700.00	11592.13	90.00	267.03	6955.00	120.14	38.53	274.76	2239.29	1995.57	9.19	
11800.00	11692.13	90.00	267.03	6955.00	122.87	39.25	274.77	2239.04	1989.88	8.99	
11900.00	11792.13	90.00	267.03	6955.00	125.59	39.97	274.77	2238.80	1984.20	8.79	
12000.00	11892.13	90.00	267.03	6955.00	128.32	40.69	274.77	2238.55	1978.51	8.61	
12100.00	11992.13	90.00	267.03	6955.00	131.05	41.41	274.77	2238.30	1972.81	8.43	
12200.00	12092.13	90.00	267.03	6955.00	133.78	42.13	274.77	2238.06	1967.11	8.26	
12300.00	12192.13	90.00	267.03	6955.00	136.52	42.85	274.77	2237.81	1961.40	8.10	
12400.00	12292.13	90.00	267.03	6955.00	139.26	43.57	274.77	2237.56	1955.69	7.94	
12500.00	12392.13	90.00	267.03	6955.00	142.00	44.29	274.77	2237.32	1949.97	7.79	
12600.00	12492.13	90.00	267.03	6955.00	144.75	45.02	274.77	2237.07	1944.25	7.64	
12700.00	12592.13	90.00	267.03	6955.00	147.49	45.74	274.77	2236.83	1938.53	7.50	
12800.00	12692.13	90.00	267.03	6955.00	150.24	46.46	274.77	2236.58	1932.80	7.36	
12900.00	12792.13	90.00	267.03	6955.00	152.99	47.18	274.77	2236.33	1927.07	7.23	
13000.00	12892.13	90.00	267.03	6955.00	155.74	47.91	274.77	2236.09	1921.33	7.10	
13100.00	12992.13	90.00	267.03	6955.00	158.50	48.63	274.77	2235.84	1915.59	6.98	
13200.00	13092.13	90.00	267.03	6955.00	161.25	49.36	274.77	2235.60	1909.85	6.86	
13300.00	13192.13	90.00	267.03	6955.00	164.01	50.08	274.77	2235.35	1904.11	6.75	
13400.00	13292.13	90.00	267.03	6955.00	166.77	50.80	274.77	2235.10	1898.37	6.64	
13500.00	13392.13	90.00	267.03	6955.00	169.53	51.53	274.77	2234.86	1892.62	6.53	
13600.00	13492.13	90.00	267.03	6955.00	172.29	52.25	274.77	2234.61	1886.87	6.43	
13700.00	13592.13	90.00	267.03	6955.00	175.05	52.98	274.78	2234.36	1881.11	6.33	
13800.00	13692.13	90.00	267.03	6955.00	177.81	53.70	274.78	2234.12	1875.36	6.23	
13900.00	13792.13	90.00	267.03	6955.00	180.58	54.43	274.78	2233.87	1869.60	6.13	
14000.00	13892.13	90.00	267.03	6955.00	183.34	55.15	274.78	2233.63	1863.84	6.04	
14100.00	13992.13	90.00	267.03	6955.00	186.11	55.88	274.78	2233.38	1858.08	5.95	

5D Anti-Collision Report

Secondary Well: Goetzel 34N-30C-M (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Sec MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	CC (US ft)	ES (US ft)	SF	Risk
14200.00	14092.13	90.00	267.03	6955.00	188.87	56.61	274.78	2233.13	1852.32	5.86	
14300.00	14192.13	90.00	267.03	6955.00	191.64	57.33	274.78	2232.89	1846.55	5.78	
14400.00	14292.13	90.00	267.03	6955.00	194.41	58.06	274.78	2232.64	1840.79	5.70	
14500.00	14392.13	90.00	267.03	6955.00	197.18	58.78	274.78	2232.39	1835.02	5.62	
14600.00	14492.13	90.00	267.03	6955.00	199.95	59.51	274.78	2232.15	1829.25	5.54	
14700.00	14592.13	90.00	267.03	6955.00	202.72	60.24	274.78	2231.90	1823.48	5.46	
14800.00	14692.13	90.00	267.03	6955.00	205.50	60.96	274.78	2231.66	1817.71	5.39	
14900.00	14792.12	90.00	267.03	6955.00	208.27	61.69	274.78	2231.41	1811.93	5.32	
15000.00	14892.12	90.00	267.03	6955.00	211.04	62.42	274.78	2231.16	1806.16	5.25	
15100.00	14992.12	90.00	267.03	6955.00	213.82	63.15	274.78	2230.92	1800.38	5.18	
15200.00	15092.12	90.00	267.03	6955.00	216.59	63.87	274.78	2230.67	1794.61	5.12	
15300.00	15192.12	90.00	267.03	6955.00	219.37	64.60	274.78	2230.43	1788.83	5.05	
15400.00	15292.12	90.00	267.03	6955.00	222.15	65.33	274.78	2230.18	1783.05	4.99	
15500.00	15392.12	90.00	267.03	6955.00	224.92	66.06	274.78	2229.93	1777.27	4.93	
15600.00	15492.12	90.00	267.03	6955.00	227.70	66.78	274.79	2229.69	1771.48	4.87	
15644.54	15536.66	90.00	267.03	6955.00	228.94	67.11	274.79	2229.58	1768.91	4.84	

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	180.06	220.05	219.31	300.07	
100.00	100.00	0.00	0.00	100.00	0.11	0.11	180.06	220.05	219.09	230.67	
200.00	200.00	0.00	0.00	200.00	0.34	0.34	180.06	220.05	218.64	156.78	
300.00	300.00	0.00	0.00	300.00	0.56	0.56	180.06	220.05	218.19	118.75	
400.00	394.11	1.88	144.12	394.09	0.75	0.75	179.82	221.38	219.11	97.69	
500.00	488.02	3.76	144.12	487.89	0.94	0.94	179.14	225.40	222.71	83.93	
600.00	581.53	5.63	144.12	581.07	1.16	1.13	178.05	232.15	229.04	74.53	
700.00	674.43	7.49	144.12	673.37	1.40	1.33	176.64	241.73	238.17	68.00	
800.00	766.56	9.33	144.12	764.50	1.69	1.54	174.99	254.21	250.21	63.47	
900.00	857.72	11.15	144.12	854.20	2.02	1.75	173.19	269.68	265.22	60.36	
1000.00	947.75	12.95	144.12	942.24	2.39	1.97	171.34	288.19	283.26	58.39	
1100.00	1036.50	14.73	144.12	1028.41	2.80	2.19	169.49	309.77	304.37	57.37	
1200.00	1123.82	16.48	144.12	1112.51	3.25	2.42	167.70	334.41	328.55	57.06	
1300.00	1209.60	18.19	144.12	1194.40	3.75	2.65	166.01	362.08	355.75	57.27	
1400.00	1293.73	19.87	144.12	1273.92	4.28	2.88	164.44	392.72	385.93	57.90	
1500.00	1380.64	20.88	144.12	1355.28	4.88	3.14	162.92	426.06	418.80	58.67	
1600.00	1474.07	20.88	144.12	1442.57	5.55	3.43	161.50	460.16	452.40	59.31	
1700.00	1567.50	20.88	144.12	1529.87	6.22	3.72	160.27	494.47	486.19	59.74	
1800.00	1660.93	20.88	144.12	1617.16	6.90	4.02	159.20	528.96	520.17	60.18	
1900.00	1754.60	20.88	144.12	1704.67	7.59	4.32	79.72	563.31	554.02	60.64	
2000.00	1848.65	20.88	144.12	1792.55	8.28	4.62	78.69	597.13	587.34	60.99	
2100.00	1942.98	20.88	144.12	1880.68	8.97	4.93	78.05	630.30	620.00	61.16	
2200.00	2037.47	20.88	144.12	1968.97	9.67	5.23	77.73	662.81	651.93	60.92	
2300.00	2132.01	20.88	144.12	2057.29	10.37	5.54	77.68	694.66	683.20	60.62	
2400.00	2226.47	20.88	144.12	2145.55	11.07	5.85	77.88	725.91	713.79	59.90	
2500.00	2320.75	20.88	144.12	2233.64	11.77	6.17	78.28	756.65	743.80	58.89	
2600.00	2414.73	20.88	144.12	2321.44	12.47	6.48	78.87	786.98	773.34	57.71	
2700.00	2508.33	20.88	144.12	2408.90	13.16	6.79	79.84	817.09	802.60	56.40	
2800.00	2601.86	20.88	144.12	2496.28	13.86	7.10	81.12	847.51	832.13	55.13	
2900.00	2695.38	20.88	144.12	2583.66	14.56	7.41	82.32	878.29	861.98	53.84	
3000.00	2788.91	20.88	144.12	2671.05	15.25	7.72	83.44	909.42	892.11	52.54	
3100.00	2882.43	20.88	144.12	2758.43	15.95	8.03	84.49	940.84	922.53	51.36	
3200.00	2975.96	20.88	144.12	2845.81	16.65	8.34	85.47	972.54	953.20	50.29	
3300.00	3069.48	20.88	144.12	2933.19	17.35	8.66	86.39	1004.49	984.12	49.31	
3400.00	3163.01	20.88	144.12	3020.57	18.05	8.97	87.26	1036.66	1015.25	48.42	
3500.00	3256.53	20.88	144.12	3107.95	18.75	9.28	88.07	1069.03	1046.58	47.61	
3600.00	3350.06	20.88	144.12	3195.34	19.45	9.60	88.84	1101.60	1078.09	46.87	
3700.00	3443.58	20.88	144.12	3282.72	20.14	9.91	89.56	1134.33	1109.73	46.12	

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
3800.00	3537.11	20.88	144.12	3370.10	20.84	10.22	90.25	1167.21	1141.53	45.44	
3900.00	3630.63	20.88	144.12	3457.48	21.54	10.54	90.89	1200.24	1173.46	44.82	
4000.00	3724.15	20.88	144.12	3544.86	22.24	10.85	91.51	1233.40	1205.53	44.24	
4100.00	3817.68	20.88	144.12	3632.24	22.94	11.17	92.09	1266.69	1237.71	43.71	
4200.00	3911.20	20.88	144.12	3719.63	23.64	11.48	92.64	1300.08	1270.00	43.22	
4300.00	4004.73	20.88	144.12	3807.01	24.34	11.80	93.16	1333.58	1302.40	42.77	
4400.00	4098.25	20.88	144.12	3894.39	25.04	12.11	93.66	1367.17	1334.89	42.35	
4500.00	4191.78	20.88	144.12	3981.77	25.74	12.43	94.14	1400.85	1367.47	41.96	
4600.00	4285.30	20.88	144.12	4069.15	26.44	12.74	94.59	1434.62	1400.13	41.60	
4700.00	4378.83	20.88	144.12	4156.53	27.14	13.05	95.03	1468.46	1432.87	41.26	
4800.00	4472.35	20.88	144.12	4243.91	27.84	13.37	95.44	1502.38	1465.68	40.95	
4900.00	4565.88	20.88	144.12	4331.30	28.55	13.68	95.84	1536.36	1498.56	40.65	
5000.00	4659.40	20.88	144.12	4418.68	29.25	14.00	96.21	1570.40	1531.50	40.37	
5100.00	4752.93	20.88	144.12	4506.06	29.95	14.32	96.58	1604.50	1564.50	40.11	
5200.00	4846.45	20.88	144.12	4593.44	30.65	14.63	96.92	1638.66	1597.56	39.87	
5300.00	4939.97	20.88	144.12	4680.82	31.35	14.95	97.26	1672.87	1630.66	39.63	
5400.00	5033.50	20.88	144.12	4768.20	32.05	15.26	97.58	1707.13	1663.79	39.39	
5500.00	5127.02	20.88	144.12	4855.59	32.75	15.58	97.89	1741.43	1696.97	39.16	
5600.00	5220.55	20.88	144.12	4942.97	33.45	15.89	98.18	1775.78	1730.18	38.94	
5700.00	5314.07	20.88	144.12	5030.35	34.15	16.21	98.47	1810.16	1763.43	38.74	
5800.00	5407.60	20.88	144.12	5117.73	34.85	16.52	98.74	1844.59	1796.72	38.54	
5900.00	5501.12	20.88	144.12	5205.11	35.55	16.84	99.01	1879.05	1830.05	38.35	
6000.00	5594.65	20.88	144.12	5292.49	36.25	17.15	99.26	1913.55	1863.42	38.17	
6100.00	5688.17	20.88	144.12	5379.88	36.95	17.47	99.51	1948.07	1896.81	38.00	
6200.00	5781.70	20.88	144.12	5467.26	37.66	17.79	99.75	1982.63	1930.24	37.84	
6300.00	5875.22	20.88	144.12	5554.64	38.36	18.10	99.97	2017.22	1963.69	37.68	
6400.00	5968.75	20.88	144.12	5642.02	39.06	18.42	100.45	2051.84	1997.18	37.54	
6500.00	6062.56	20.88	144.12	5729.67	39.76	18.73	111.48	2086.23	2030.73	37.59	
6600.00	6155.65	20.88	144.12	5816.65	40.46	19.05	172.19	2119.78	2063.73	37.82	
6700.00	6246.20	20.88	144.12	5901.25	41.14	19.35	257.75	2152.08	2095.79	38.23	
6800.00	6332.46	20.88	144.12	5981.84	41.78	19.65	269.64	2183.01	2126.77	38.82	
6900.00	6412.74	20.88	144.12	6056.85	42.39	19.92	274.27	2212.62	2156.63	39.52	
7000.00	6485.48	20.88	144.12	6124.81	42.93	20.16	276.97	2241.14	2185.50	40.29	
7100.00	6549.26	20.88	144.12	6184.41	43.41	20.38	278.90	2268.83	2213.74	41.19	
7200.00	6602.85	20.88	144.12	6234.48	43.81	20.56	280.53	2296.00	2241.60	42.21	
7300.00	6655.16	19.42	152.36	6283.53	44.10	20.73	281.88	2322.81	2269.15	43.29	
7400.00	6711.95	18.08	165.91	6337.33	44.18	20.88	282.92	2349.11	2295.97	44.20	
7500.00	6773.79	17.83	181.98	6396.20	43.95	20.98	283.69	2374.75	2321.95	44.97	
7600.00	6846.51	19.18	199.88	6465.21	43.34	21.03	284.05	2399.58	2346.80	45.46	
7700.00	6949.29	23.46	219.38	6561.05	41.88	20.95	283.58	2423.35	2370.18	45.58	
7800.00	7223.31	40.92	245.28	6793.10	35.56	19.64	278.36	2445.74	2391.21	44.85	
7900.00	7921.00	90.00	266.98	7060.00	30.76	12.44	271.89	2453.35	2391.45	39.64	
8000.00	8021.00	90.00	266.98	7060.00	31.80	12.98	271.89	2453.21	2388.88	38.14	
8100.00	8121.00	90.00	266.98	7060.00	33.03	13.56	271.89	2453.06	2385.93	36.54	
8200.00	8221.00	90.00	266.98	7060.00	34.44	14.18	271.89	2452.92	2382.66	34.91	
8300.00	8321.00	90.00	266.98	7060.00	36.00	14.82	271.89	2452.77	2379.11	33.30	
8400.00	8421.00	90.00	266.98	7060.00	37.71	15.49	271.89	2452.63	2375.28	31.71	
8500.00	8521.00	90.00	266.98	7060.00	39.53	16.17	271.89	2452.48	2371.23	30.18	
8600.00	8621.00	90.00	266.98	7060.00	41.46	16.86	271.89	2452.34	2367.03	28.74	
8700.00	8721.00	90.00	266.98	7060.00	43.48	17.55	271.89	2452.20	2362.72	27.41	
8800.00	8821.00	90.00	266.98	7060.00	45.59	18.25	271.89	2452.05	2358.05	26.09	
8900.00	8921.00	90.00	266.98	7060.00	47.77	18.96	271.89	2451.91	2353.55	24.93	
9000.00	9021.00	90.00	266.98	7060.00	50.00	19.66	271.89	2451.76	2348.73	23.80	
9100.00	9121.00	90.00	266.98	7060.00	52.30	20.37	271.89	2451.62	2343.84	22.75	
9200.00	9221.00	90.00	266.98	7060.00	54.64	21.08	271.89	2451.47	2338.90	21.78	
9300.00	9320.99	90.00	266.98	7060.00	57.02	21.79	271.89	2451.33	2333.90	20.87	
9400.00	9420.99	90.00	266.98	7060.00	59.44	22.50	271.89	2451.19	2328.84	20.04	
9500.00	9520.99	90.00	266.98	7060.00	61.89	23.21	271.89	2451.04	2323.74	19.25	

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
9600.00	9620.99	90.00	266.98	7060.00	64.37	23.92	271.89	2450.90	2318.58	18.52	
9700.00	9720.99	90.00	266.98	7060.00	66.87	24.63	271.89	2450.75	2313.39	17.84	
9800.00	9820.99	90.00	266.98	7060.00	69.40	25.34	271.89	2450.61	2308.17	17.20	
9900.00	9920.99	90.00	266.98	7060.00	71.95	26.05	271.89	2450.46	2302.89	16.61	
10000.00	10020.99	90.00	266.98	7060.00	74.52	26.77	271.89	2450.32	2297.55	16.04	
10100.00	10120.99	90.00	266.98	7060.00	77.10	27.48	271.89	2450.18	2292.17	15.51	
10200.00	10220.99	90.00	266.98	7060.00	79.70	28.19	271.89	2450.03	2286.78	15.01	
10300.00	10320.99	90.00	266.98	7060.00	82.31	28.91	271.89	2449.89	2281.36	14.54	
10400.00	10420.99	90.00	266.98	7060.00	84.94	29.62	271.89	2449.74	2275.92	14.09	
10500.00	10520.99	90.00	266.98	7060.00	87.57	30.34	271.89	2449.60	2270.46	13.67	
10600.00	10620.99	90.00	266.98	7060.00	90.22	31.05	271.90	2449.45	2264.99	13.28	
10700.00	10720.99	90.00	266.98	7060.00	92.87	31.77	271.90	2449.31	2259.50	12.90	
10800.00	10820.99	90.00	266.98	7060.00	95.53	32.48	271.90	2449.17	2254.00	12.55	
10900.00	10920.99	90.00	266.98	7060.00	98.20	33.20	271.90	2449.02	2248.48	12.21	
11000.00	11020.99	90.00	266.98	7060.00	100.88	33.92	271.90	2448.88	2242.95	11.89	
11100.00	11120.99	90.00	266.98	7060.00	103.56	34.63	271.90	2448.73	2237.42	11.59	
11200.00	11220.99	90.00	266.98	7060.00	106.25	35.35	271.90	2448.59	2231.87	11.30	
11300.00	11320.99	90.00	266.98	7060.00	108.95	36.07	271.90	2448.44	2226.31	11.02	
11400.00	11420.99	90.00	266.98	7060.00	111.65	36.79	271.90	2448.30	2220.75	10.76	
11500.00	11520.99	90.00	266.98	7060.00	114.35	37.51	271.90	2448.16	2215.17	10.51	
11600.00	11620.99	90.00	266.98	7060.00	117.06	38.23	271.90	2448.01	2209.59	10.27	
11700.00	11720.99	90.00	266.98	7060.00	119.78	38.95	271.90	2447.87	2204.00	10.04	
11800.00	11820.99	90.00	266.98	7060.00	122.50	39.67	271.90	2447.72	2198.41	9.82	
11900.00	11920.99	90.00	266.98	7060.00	125.22	40.39	271.90	2447.58	2192.81	9.61	
12000.00	12020.99	90.00	266.98	7060.00	127.94	41.11	271.90	2447.43	2187.20	9.40	
12100.00	12120.99	90.00	266.98	7060.00	130.67	41.83	271.90	2447.29	2181.59	9.21	
12200.00	12220.99	90.00	266.98	7060.00	133.40	42.55	271.90	2447.15	2175.97	9.02	
12300.00	12320.99	90.00	266.98	7060.00	136.14	43.27	271.90	2447.00	2170.35	8.85	
12400.00	12420.99	90.00	266.98	7060.00	138.87	43.99	271.90	2446.86	2164.72	8.67	
12500.00	12520.99	90.00	266.98	7060.00	141.61	44.72	271.90	2446.71	2159.09	8.51	
12600.00	12620.99	90.00	266.98	7060.00	144.35	45.44	271.90	2446.57	2153.46	8.35	
12700.00	12720.99	90.00	266.98	7060.00	147.10	46.16	271.90	2446.42	2147.82	8.19	
12800.00	12820.99	90.00	266.98	7060.00	149.84	46.88	271.90	2446.28	2142.18	8.04	
12900.00	12920.99	90.00	266.98	7060.00	152.59	47.61	271.90	2446.14	2136.53	7.90	
13000.00	13020.99	90.00	266.98	7060.00	155.34	48.33	271.90	2445.99	2130.88	7.76	
13100.00	13120.99	90.00	266.98	7060.00	158.09	49.05	271.90	2445.85	2125.23	7.63	
13200.00	13220.99	90.00	266.98	7060.00	160.84	49.78	271.90	2445.70	2119.58	7.50	
13300.00	13320.99	90.00	266.98	7060.00	163.60	50.50	271.90	2445.56	2113.92	7.37	
13400.00	13420.99	90.00	266.98	7060.00	166.35	51.23	271.90	2445.41	2108.26	7.25	
13500.00	13520.99	90.00	266.98	7060.00	169.11	51.95	271.90	2445.27	2102.60	7.14	
13600.00	13620.99	90.00	266.98	7060.00	171.87	52.68	271.90	2445.13	2096.93	7.02	
13700.00	13720.99	90.00	266.98	7060.00	174.63	53.40	271.90	2444.98	2091.26	6.91	
13800.00	13820.99	90.00	266.98	7060.00	177.39	54.13	271.90	2444.84	2085.59	6.81	
13900.00	13920.99	90.00	266.98	7060.00	180.15	54.85	271.90	2444.69	2079.92	6.70	
14000.00	14020.99	90.00	266.98	7060.00	182.92	55.58	271.90	2444.55	2074.25	6.60	
14100.00	14120.99	90.00	266.98	7060.00	185.68	56.31	271.90	2444.40	2068.57	6.50	
14200.00	14220.99	90.00	266.98	7060.00	188.45	57.03	271.90	2444.26	2062.90	6.41	
14300.00	14320.99	90.00	266.98	7060.00	191.22	57.76	271.90	2444.12	2057.22	6.32	
14400.00	14420.99	90.00	266.98	7060.00	193.98	58.48	271.90	2443.97	2051.54	6.23	
14500.00	14520.99	90.00	266.98	7060.00	196.75	59.21	271.90	2443.83	2045.85	6.14	
14600.00	14620.99	90.00	266.98	7060.00	199.52	59.94	271.90	2443.68	2040.17	6.06	
14700.00	14720.99	90.00	266.98	7060.00	202.29	60.66	271.90	2443.54	2034.48	5.97	
14800.00	14820.99	90.00	266.98	7060.00	205.06	61.39	271.90	2443.39	2028.80	5.89	
14900.00	14920.99	90.00	266.98	7060.00	207.83	62.12	271.90	2443.25	2023.11	5.82	
15000.00	15020.99	90.00	266.98	7060.00	210.61	62.84	271.90	2443.11	2017.42	5.74	
15100.00	15120.99	90.00	266.98	7060.00	213.38	63.57	271.90	2442.96	2011.73	5.67	
15200.00	15220.99	90.00	266.98	7060.00	216.15	64.30	271.90	2442.82	2006.04	5.59	
15300.00	15320.99	90.00	266.98	7060.00	218.93	65.03	271.90	2442.67	2000.34	5.52	

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
15400.00	15420.99	90.00	266.98	7060.00	221.70	65.75	271.90	2442.53	1994.65	5.45	
15500.00	15520.99	90.00	266.98	7060.00	224.48	66.48	271.90	2442.38	1988.95	5.39	
15600.00	15620.99	90.00	266.98	7060.00	227.26	67.21	271.90	2442.24	1983.26	5.32	
15644.54	15665.53	90.00	266.98	7060.00	228.49	67.53	271.90	2442.18	1980.72	5.29	